MAD

PROJECT ID: 1690-04-62

WITH: 1690-04-73

COUNTY: GREEN

NOVEMBER 2025

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
~~Section No.~~	~~4~~	~~Right of Way Plat~~
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 268



~~01~~ 01

DESIGN DESIGNATION 1690-04-32

A.A.D.T.	2026	=	6,300
A.A.D.T.	2046	=	6,700
D.H.V.		=	710
D.D.		=	61/39
T.		=	9.9%
DESIGN SPEED		=	55 MPH
ESALS		=	1,800,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MONROE - NEW GLARUS

BUSHNELL CREEK TO COW PATH LANE

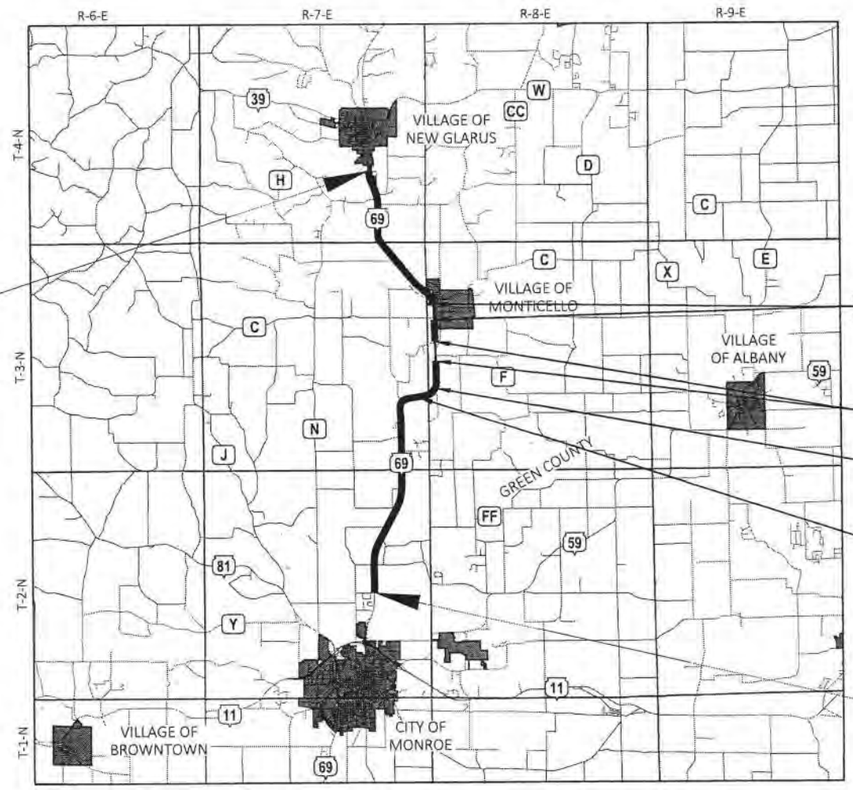
STH 69

GREEN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1690-04-62	WISC 2026028	1

STATE PROJECT NUMBER

1690-04-62



END PROJECT
STA 763+95.00

NET EXCEPTION TO CL LENGTH (0.427 MI)
STA 524+10 - STA 546+63

NET EXCEPTION TO CL LENGTH (0.513 MI)
STA 466+94 - STA 494+00

STRUCTURE B-23-0151
STA 427+97 - STA 429+24
NET EXCEPTION TO CL LENGTH (0.024 MI)

STRUCTURE B-23-0175
STA 398+84 - STA 399+91
NET EXCEPTION TO CL LENGTH (0.020 MI)

BEGIN PROJECT
STA 100+00.00
X=613,808.115
Y=149,944.455

LAYOUT

SCALE 0 4 MI

TOTAL NET LENGTH OF CENTERLINE = 11.591 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), GREEN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012).

ORIGINAL PLANS PREPARED BY

Batterman
engineers surveyors planners

WISCONSIN
RYAN D. RUDZINSKI
E-43310
ELKHORN
WIS.
PROFESSIONAL ENGINEER

7-29-2025

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	R.H. BATTERMAN
Designer	R.H. BATTERMAN
Project Manager	CODY KAMMERZELT, P.E.
Regional Examiner	SW REGION
Regional Supervisor	JENNIFER KOBRYN, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 7/29/25 (Signature)

E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_010101_TI.DWG

PLOT DATE : 7/18/2025 10:55 AM PLOT BY : RYAN BURKE PLOT NAME :

UTILITY CONTACTS

ALLIANT ENERGY
ELECTRIC
BETSI BASS
1915 STATE ROAD 69 S
MONROE, WI 53566
PHONE: (608) 328-5323
EMAIL: BETSIBASS@ALLIANTENERGY.COM

AMERICAN TRANSMISSION COMPANY
ELECTRIC
CHRIS DAILEY
W234 N2000 RIDGEVIEW PARKWAY COURT, PO BOX 47
WAUKESHA, WI 53187-0047
PHONE: (262) 506-6884
EMAIL: CDAILEY@ATCLLC.COM

MID-AMERICAN PIPELINE
GAS/PETROLEUM
MICHAEL HOUSENGA
5354 AMERICAN LEGION RD SE
IOWA CITY, IA 52240
PHONE: (319) 341-4615
EMAIL: MRHOUSENGA@EPROD.COM

NEW GLARUS LIGHT & WATER
WATER UTILITIES
BILL KOSMEDER
319 SECOND ST.
NEW GLARUS, WI 53574
PHONE: (608) 558-3580
EMAIL: NGELECTRIC2@NEWGLARUSVILLAGE.COM

NEW GLARUS LIGHT & WATER
SANITARY SEWER
SCOTT MCNETT
319 SECOND ST.
NEW GLARUS, WI 53574
PHONE: (608) 527-2097
EMAIL: PWDIRECTOR@NEWGLARUSVILLAGE.COM

NORTHEN NATURAL GAS CO.
GAS/PETROLEUM
PHIL CURRY
5557 COUNTY D
PLATTEVILLE, WI 53818
PHONE: (402) 530-2801
EMAIL: PHILLIP.CURRY@NNGCO.COM

SPECTRUM
COMMUNICATION
DAVE MOLDENHAUER
1348 PLAINFIELD AVE
JANESVILLE, WI 53545
PHONE: (608) 373-7538
EMAIL: DAVID.MOLDENHAUER@CHARTER.COM

TDS TELECOM (MT VERNON TELEPHONE)
COMMUNICATION
CHRIS FERGUSON
827 16th AVE
MONROE, WI 53566
PHONE: (608) 382-1158
EMAIL: CHRIS.FERGUSON@TDSTELECOM.COM

TDS TELECOM (UTELCO LLC)
COMMUNICATION
CHRIS FERGUSON
827 16th AVE
MONROE, WI 53566
PHONE: (608) 382-1158
EMAIL: CHRIS.FERGUSON@TDSTELECOM.COM

VILLAGE OF MONTICELLO
SEWER & WATER
KEVIN KOMPROOD
238 N. MAIN ST.
MONTICELLO, WI 53570
PHONE: (608) 938-4383
EMAIL: MONTICELLOWATERUTIL@TDS.NET

WE ENERGIES
GAS
ADAM MARING
210 N 29th AVE
MONROE, WI 53566
PHONE: (608) 328-5679
EMAIL: ADAM.MARING@WE-ENERGIES.COM

WINDSTREAM KLD, LLC
COMMUNICATION
LORI KETTER
969 WAUBE LANE
GREEN BAY, WI 54304
PHONE: (920) 410-6902
EMAIL: LORI.KETTER@WINDSTREAM.COM

OTHER CONTACTS

WIDNR

WIDNR
ANDY BARTA
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 235-2955
ANDREW.BARTA@WISCONSIN.GOV

WISDOT

SOUTHWEST REGION
CODY KAMMERZELT, P.E.
2101 WRIGHT STREET
MADISON, WI 53704
(608) 219-1331
CODY.KAMMERZELT@DOT.WI.GOV

DESIGN CONSULTANT

BATTERMAN
RYAN RUDZINSKI
1040 N WISCONSIN ST
ELKHORN, WI 53121
(608) 921-7619
RRUDZINSKI@RHBATTERMAN.COM

ORDER OF DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS:

PAVEMENT LOCATION	THICKNESS	MIX TYPE
WIS 69 - OVERLAY	LOWER: N/A UPPER: 2.00"	LOWER: N/A UPPER: 4 MT 58-28 S
WIS 69 - SHOULDER WIDENING	LOWER: 2.00" UPPER: 2.00"	LOWER: ASPHALTIC SURFACE UPPER: 4 MT 58-28 S
WIS 69 - CULVERT REPLACEMENTS	LOWER: 2.00" MIDDLE: 2.00" UPPER: 2.00"	LOWER: 4 MT 58-28 S MIDDLE: 4 MT 58-28 S UPPER: 4 MT 58-28 S

STANDARD ABBREVIATIONS

AC	ACRES
AEW	APRON ENDWALL
ASPH	ASPHALT
AVG	AVERAGE
ADT	AVERAGE DAILY TRAFFIC
BAD	BASE AGGREGATE DENSE
BM	BENCHMARK
CL	CENTERLINE OR CLASS
CC	CENTER TO CENTER
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
CPRC	CULVERT PIPE CORRUGATED STEEL
CSCP	CORRUGATED STEEL CULVERT PIPE
CSM	CERTIFIED SURVEY MAP
CTH	COUNTY TRUNK HIGHWAYS
CULV	CULVERT
CP	CULVERT PIPE
C&G	CURB & GUTTER
D	DEGREE OF CURVATURE
DHV	DESIGN HOURLY VOLUME
DIA	DIAMETER
DWY	DRIVEWAY
E	EAST
ELEV	ELEVATION
EW	ENDWALL
ENT	ENTRANCE
ESALS	EQUIVALENT SINGLE AXLE LOADS
EX	EXISTING
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FF	FACE TO FACE
FERT	FERTILIZER
FE	FEILD ENTRANCE
FG	FINISHED GRADE
FT	FOOT
GV	GAS VALVE
IE	INVERT ELEVATION
INL	INLET
INV	INVERT
IP	IRON PIPE
JCT	JUNCTION
LHF	LEFT HAND FORWARD
L	LENGTH
LS	LUMP SUM
LT	LEFT
MH	MANHOLE
NC	NORMAL CROWN
N	NORTH
PT	POINT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PL	PROPERTY LINE
PE	PRIVATE ENTRANCE
R/RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RT	RIGHT
R/W	RIGHT-OF-WAY
RHF	RIGHT HAND FORWARD
SALV	SALVAGED
SAN	SANITARY SEWER
SHLDR	SHOULDER
SDD	STANDARD DETAIL DRAWINGS
STA	STATION
STM	STORM SEWER
SE	SUPERELEVATION
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
TAN	TANGENT
TLE	TEMPORARY LIMITED EASEMENT
T	TRUCKS
TYP	TYPICAL
VERT	VERTICAL
VC	VERTICAL CURVE
VOL	VOLUME
WV	WATER VALVE
W	WELL
X	EAST GRID COORDINATE
Y	NORTH GRID COORDINATE

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE, UTILITIES AND LOCAL GOVERNMENT BEFORE THE START OF CONSTRUCTION WORK.
2. THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS WITH THE APPROPRIATE UTILITY, IF REQUIRED.
3. DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SEEDED, FERTILIZED, EROSION MATTED, AND MULCHED PER TYPICAL SECTIONS.
4. APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED PAVEMENT SURFACES AND 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.
5. HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/INCH.
6. THE CONTRACTORS PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINT FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.
7. PAVING LIMITS AT INTERSECTIONS ARE APPROXIMATE. EXACT DIMENSIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
8. THE EXACT LOCATIONS AND LIMITS OF ALL PRIVATE ENTRANCES AND FIELD ENTRANCES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
9. EXACT LOCATION AND LIMITS OF REMOVING DISTRESSED PAVEMENT MILLING TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
10. ALL CULVERT LENGTHS ARE PIPE LENGTHS AND DO NOT INCLUDE ENDWALLS.
11. CULVERT PIPE AND CULVERT ENDWALL LOCATIONS ARE MARKED ON THE PLANS WITH A STATION AND OFFSET TO THE END OF PIPE, WHERE IT MEETS THE ENDWALL, UNLESS OTHERWISE NOTED IN THE PLANS.
12. CULVERT ENDWALLS SHALL BE LAID AT THE SAME SLOPE AS THE CONNECTING PIPE.

EROSION CONTROL GENERAL NOTES

1. RE-TOPSOIL DISTURBED AREAS, AS DESIGNATED BY THE ENGINEER. SEED, FERTILIZE, AND EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.
2. STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS, AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED.
3. THE LOCATIONS AND TYPE OF EROSION CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE ITEM IS NO LONGER REQUIRED.

UTILITY NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITH IN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

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BEGIN PROJECT
BEGIN MILL AND OVERLAY
STA 100+00.00

CITY OF MONROE

TOWN OF MONROE

TOWN OF WASHINGTON

TOWN OF SYLVESTER

TOWN OF PLEASANT

TOWN OF EXETER

TOWN OF NEW GLARUS

VILLAGE OF NEW GLARUS

VILLAGE OF MONTICELLO

BUSHNELL CREEK

AEBLY ROAD

ROUND GROVE ROAD

BENKERT ROAD

CENTER ROAD

COLD SPRINGS ROAD

ALLISON ROAD

WASHINGTON ROAD

GUTZMER ROAD

WITTENWYLER ROAD

HEFTY ROAD

EXETER CROSSING ROAD

C-23-0007

C-23-2001

WITTENWYLER CREEK
B-23-0175

WEST BRANCH LITTLE SUGAR RIVER
B-23-0023

WEST BRANCH LITTLE SUGAR RIVER
B-23-0024

ENVIRONMENTALLY SENSITIVE AREA

BURGY CREEK
B-23-0151

THE MONTESIAN LAKE

WETLAND

SUGAR RIVER STATE TRAIL

NEW GLARUS WOODS STATE PARK

C-23-0017

REPLACE CULVERT
219+84

REPLACE CULVERT
246+08

REPLACE CULVERT
262+16

REPLACE CULVERT
384+93

REPLACE CULVERT
705+40

REPLACE CULVERT
694+76

REPLACE CULVERT
640+90

REPLACE CULVERT
735+67

NET EXCEPTION TO CL LENGTH
STA 466+94 - STA 494+00

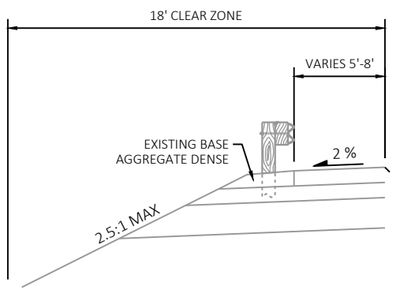
NET EXCEPTION TO CL LENGTH
STA 524+09.68 - STA 546+63

END PROJECT
END MILL AND OVERLAY
STA 763+94.68

150 200 250 300 350 400 450 500 550 600 650 700 750

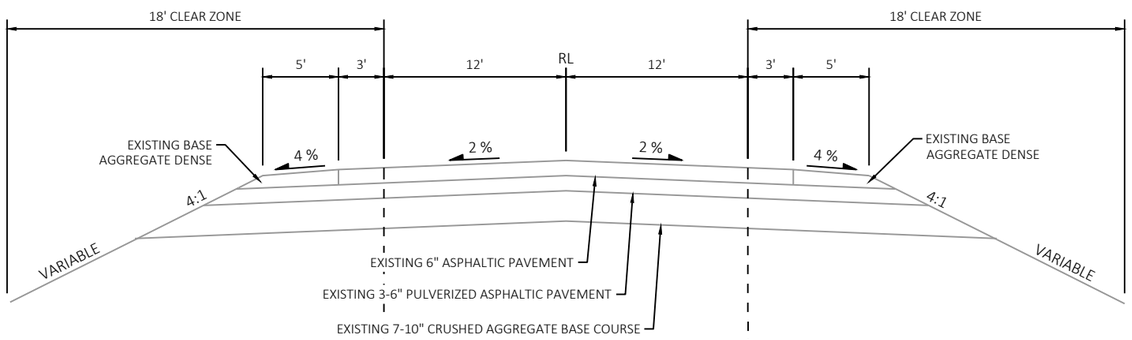
PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PROJECT OVERVIEW	SHEET 3 E

2



BEAM GUARD SECTION

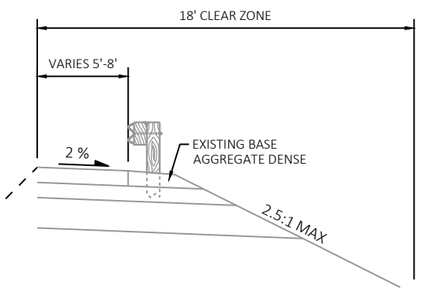
STATIONS (LT)
STA. 113+04 - STA. 119+29
STA. 140+36 - STA. 145+11
STA. 152+10 - STA. 154+07
STA. 165+85 - STA. 170+60
STA. 177+78 - STA. 186+66
STA. 427+17 - STA. 430+73
STA. 616+37 - STA. 617+35



EXISTING TYPICAL SECTION

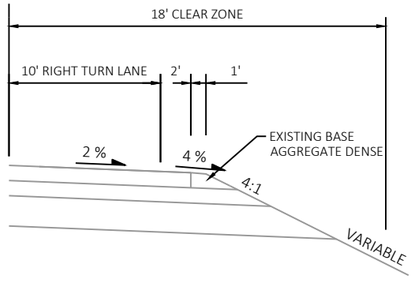
STATIONS (LT)
STA. 100+00 - STA. 113+04
STA. 119+29 - STA. 140+36
STA. 145+11 - STA. 152+10
STA. 154+07 - STA. 165+85
STA. 170+60 - STA. 177+78
STA. 186+66 - STA. 242+47***
STA. 322+70 - STA. 398+84***
STA. 399+91 - STA. 427+17
STA. 430+73 - STA. 466+94
STA. 513+42 - STA. 524+10
STA. 546+63 - STA. 548+90
STA. 564+97 - STA. 616+37
STA. 617+35 - STA. 700+09***
STA. 763+94 - STA. 771+45

STATIONS (RT)
STA. 100+00 - STA. 112+80
STA. 119+39 - STA. 135+45
STA. 138+20 - STA. 140+34
STA. 144+60 - STA. 152+19
STA. 153+95 - STA. 165+11
STA. 170+13 - STA. 178+41
STA. 180+66 - STA. 185+45
STA. 186+71 - STA. 398+84***
STA. 399+91 - STA. 426+98
STA. 430+05 - STA. 466+94
STA. 500+44 - STA. 501+36
STA. 511+99 - STA. 524+10
STA. 546+66 - STA. 548+90
STA. 564+97 - STA. 614+96
STA. 616+18 - STA. 625+73
STA. 632+58 - STA. 696+52***
STA. 740+90 - STA. 771+45



BEAM GUARD SECTION

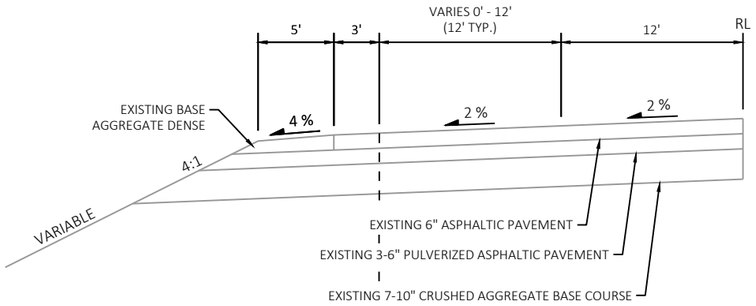
STATIONS (RT)
STA. 112+80 - STA. 119+39
STA. 140+34 - STA. 144+60
STA. 152+19 - STA. 153+95
STA. 165+11 - STA. 170+13
STA. 178+41 - STA. 180+66
STA. 185+45 - STA. 186+71
STA. 426+98 - STA. 430+05
STA. 501+36 - STA. 511+99
STA. 614+96 - STA. 616+18



RIGHT TURN LANE

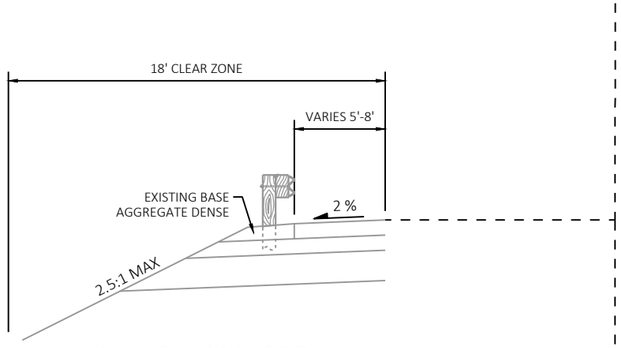
STATIONS (RT)
STA. 135+45 - STA. 138+20

***STATION RANGES INCLUDE CULVERT



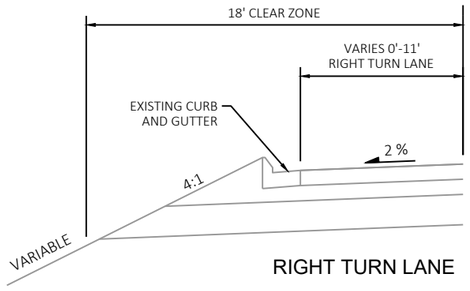
EXISTING TYPICAL HALF SECTION - SB AUXILIARY LANE

STATIONS (LT)
STA. 242+47 - STA. 322+70***
STA. 494+00 - STA. 503+41
STA. 511+98 - STA. 513+42
STA. 700+09 - STA. 702+20
STA. 707+26 - STA. 720+56
STA. 723+98 - STA. 763+94***



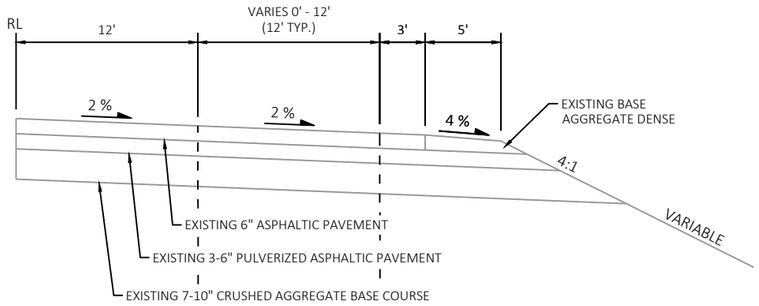
BEAM GUARD SECTION

STATIONS (LT)
STA. 503+41 - STA. 511+98
STA. 702+20 - STA. 707+26***



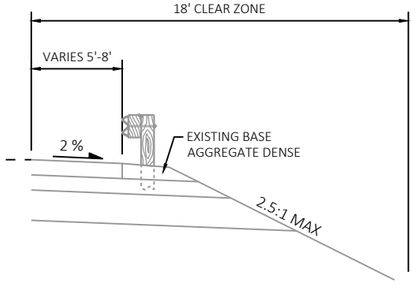
RIGHT TURN LANE

STATIONS (RT)
STA. 720+56 - STA. 723+98



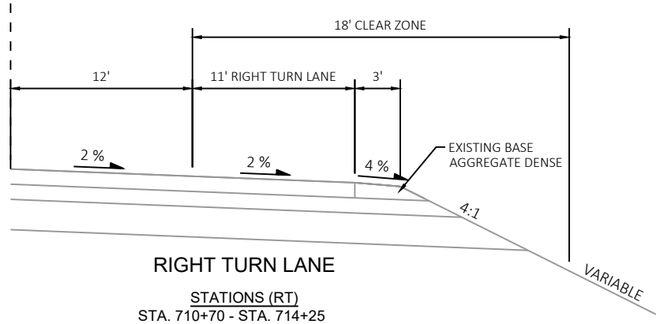
EXISTING TYPICAL HALF SECTION - NB AUXILIARY LANE

STATIONS (RT)
STA. 494+00 - STA. 500+44
STA. 625+73 - STA. 632+58
STA. 696+52 - STA. 710+70***
STA. 714+25 - STA. 729+71



BEAM GUARD SECTION

STATIONS (RT)
STA. 729+71 - STA. 739+33***

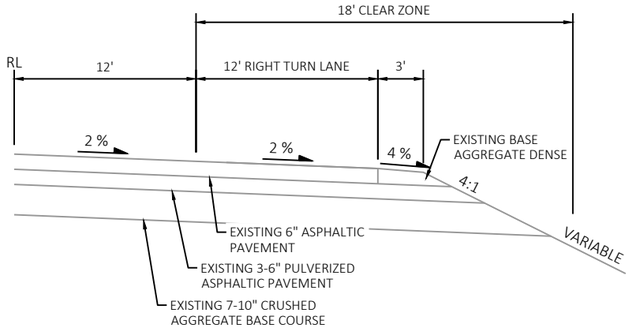


RIGHT TURN LANE

STATIONS (RT)
STA. 710+70 - STA. 714+25

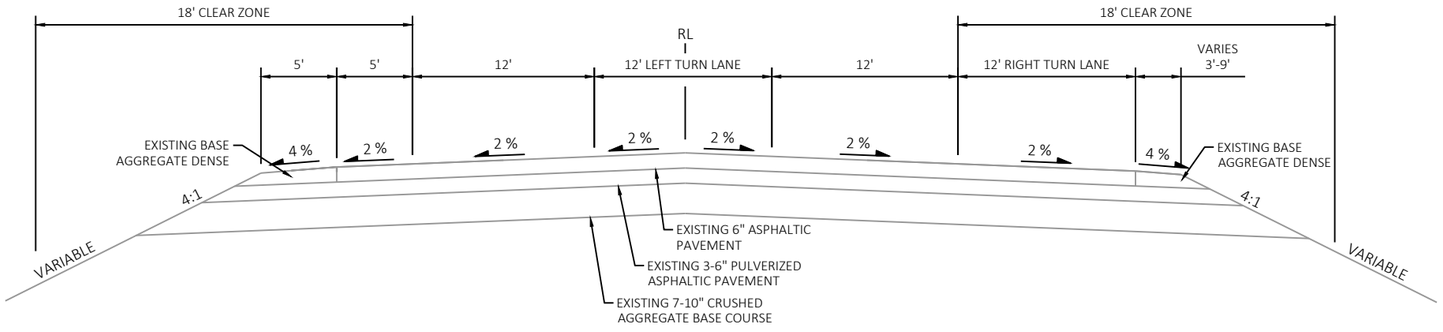
***STATION RANGES INCLUDE CULVERT

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	TYPICAL SECTIONS STH 69	SHEET 5	E



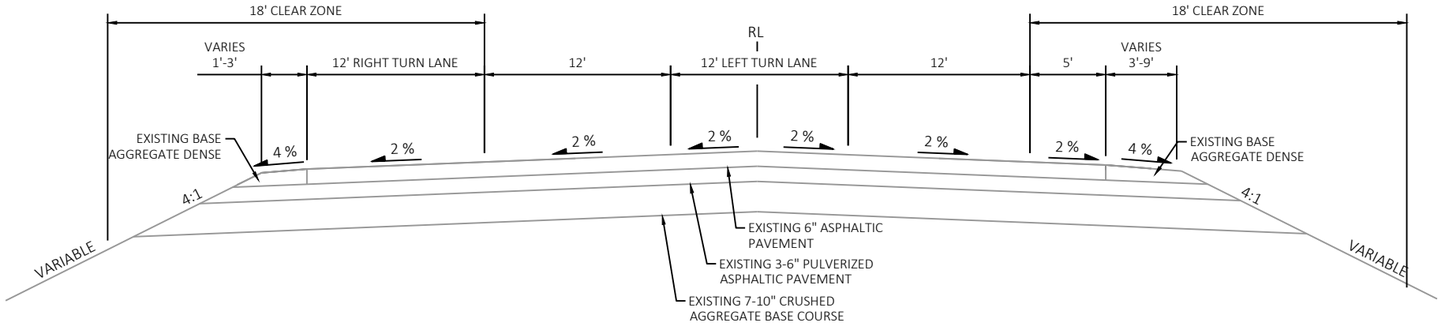
EXISTING TYPICAL HALF SECTION - RIGHT TURN LANE

STATIONS (RT)
STA. 739+33 - STA. 740+90



EXISTING TYPICAL SECTION

STATIONS
STA. 548+90 - STA. 555+10

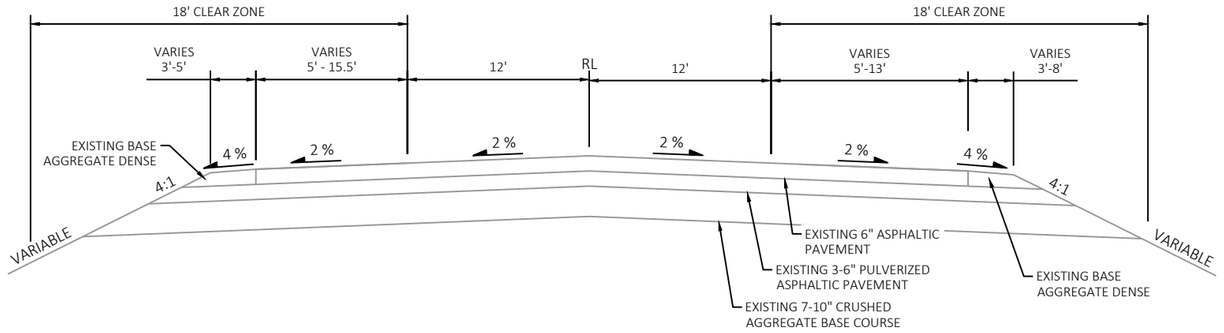


EXISTING TYPICAL SECTION

STATIONS
STA. 555+10 - STA. 559+03

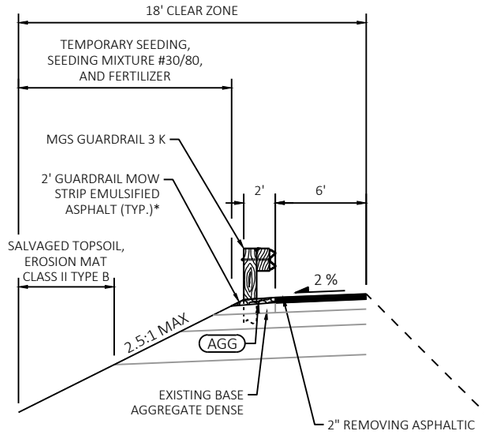
PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	TYPICAL SECTIONS STH 69	SHEET 6	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_020301_TS.DWG
LAYOUT NAME - 3 Typical Sections
PLOT DATE : 7/18/2025 3:38 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:10 FT



EXISTING TYPICAL SECTION

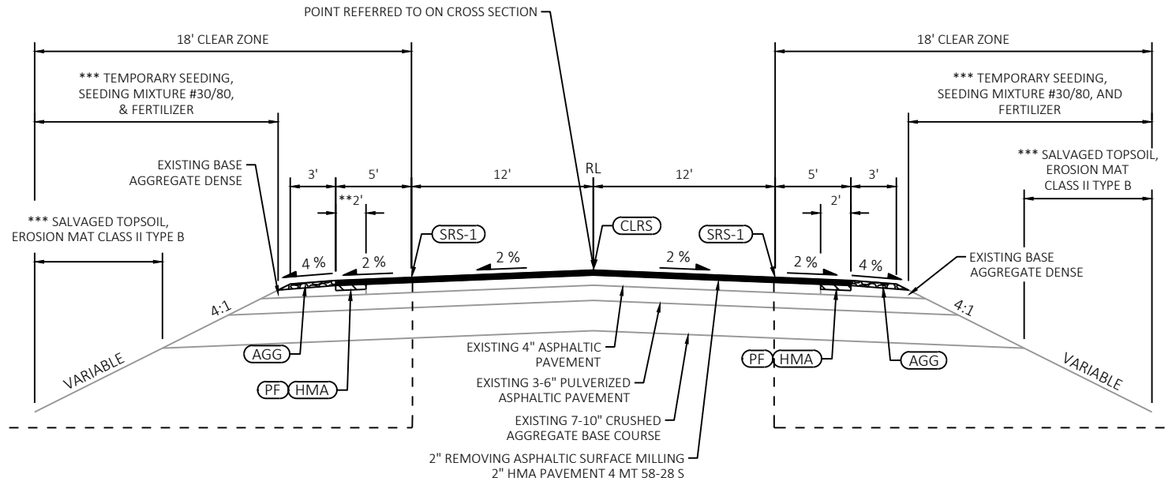
STATIONS
STA. 559+03 - STA. 564+97



BEAM GUARD SECTION

STATIONS (LT)

STA. 113+04 - STA. 119+29
STA. 140+36 - STA. 145+11
STA. 152+10 - STA. 154+07
STA. 165+85 - STA. 170+60
STA. 177+78 - STA. 186+66
STA. 427+17 - STA. 430+73
STA. 616+37 - STA. 617+35



FINISHED TYPICAL SECTION

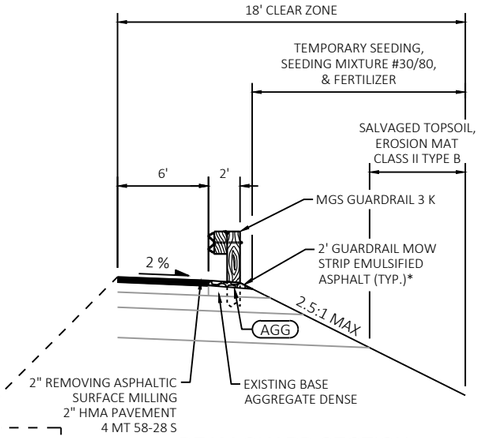
STATIONS (LT)	STATIONS (RT)
STA. 100+00 - STA. 113+04	STA. 100+00 - STA. 112+80
STA. 119+29 - STA. 140+36	STA. 119+39 - STA. 135+45
STA. 145+11 - STA. 152+10	STA. 138+20 - STA. 140+34
STA. 154+07 - STA. 165+85	STA. 144+60 - STA. 152+19
STA. 170+60 - STA. 177+78	STA. 153+95 - STA. 165+11
STA. 186+66 - STA. 242+47***	STA. 170+13 - STA. 178+41
STA. 322+70 - STA. 398+84***	STA. 180+66 - STA. 185+45
STA. 399+91 - STA. 427+17	STA. 186+71 - STA. 398+84***
STA. 430+73 - STA. 466+94	STA. 399+91 - STA. 426+98
STA. 513+42 - STA. 524+10	STA. 430+05 - STA. 466+94
STA. 546+63 - STA. 548+90	STA. 500+44 - STA. 501+36
STA. 564+97 - STA. 616+37	STA. 511+99 - STA. 524+10
STA. 617+35 - STA. 700+09***	STA. 546+63 - STA. 548+90
STA. 763+94 - STA. 771+45	STA. 564+97 - STA. 614+96
	STA. 616+18 - STA. 625+73
	STA. 632+58 - STA. 696+52***
	STA. 740+90 - STA. 771+45

*INSTALL GUARDRAIL MOW STRIP EMULSIFIED ASPHALT ALONG MGS GUARDRAIL WHERE THERE IS NO CURB & GUTTER

** STA. 352+52 - STA. 354+52 5' WIDE

***STATION RANGES INCLUDE FULL RECONSTRUCTION SECTIONS DUE TO CULVERT REPLACEMENT. SEE PLAN DETAILS - TYPICAL SECTION FOR CULVERT PIPE REPLACEMENT FOR SPECIFIC STATIONS.
CULVERT AREA:
2" ASPHALTIC SURFACE - 4 MT 58-28 S
2" ASPHALTIC SURFACE - 4 MT 58-28 S
2" ASPHALTIC SURFACE - 4 MT 58-28 S

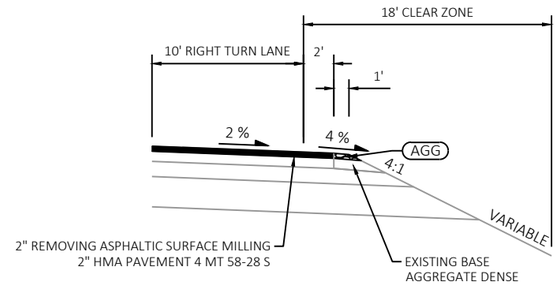
LEGEND	
AGG	2" BASE AGGREGATE DENSE 3/4-INCH
PF	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
HMA	2" ASPHALTIC SURFACE
CLRS	ASPHALTIC RUMBLE STRIPS, CENTERLINE
SRS-1	ASPHALTIC RUMBLE STRIPS, SHOULDER



BEAM GUARD SECTION

STATIONS (RT)

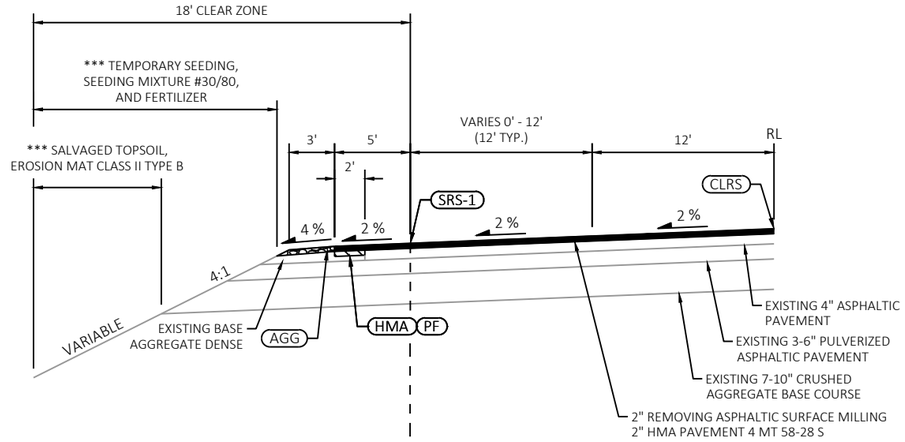
STA. 112+80 - STA. 119+39
STA. 140+34 - STA. 144+60
STA. 152+19 - STA. 153+95
STA. 165+11 - STA. 170+13
STA. 178+41 - STA. 180+66
STA. 185+45 - STA. 186+71
STA. 426+98 - STA. 430+05
STA. 501+36 - STA. 511+99
STA. 614+96 - STA. 616+18



RIGHT TURN LANE

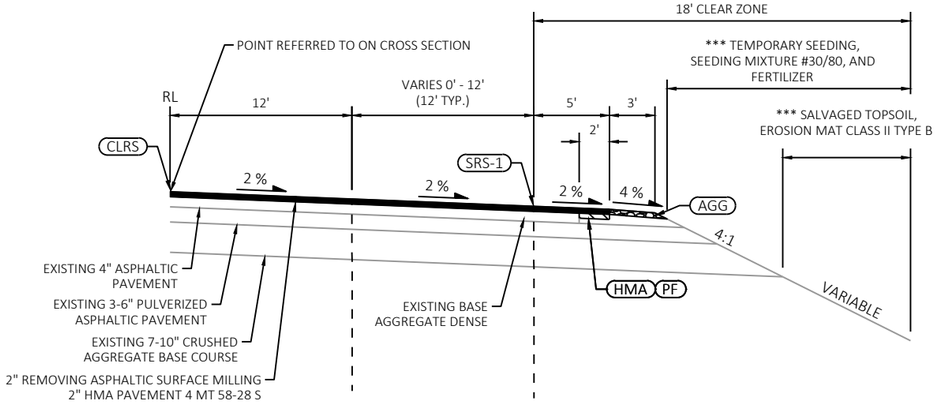
STATIONS (RT)

STA. 135+45 - STA. 138+20



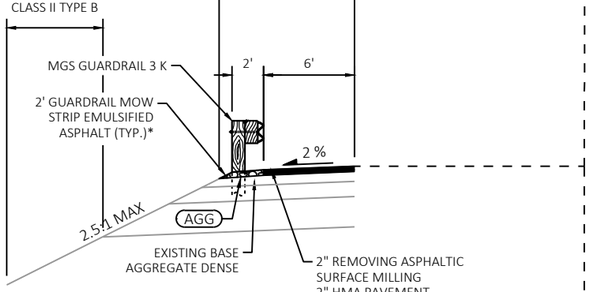
FINISHED TYPICAL HALF SECTION - SB AUXILIARY LANE

STATIONS (LT)
STA. 242+47 - STA. 322+70***
STA. 494+00 - STA. 503+41
STA. 511+98 - STA. 513+42
STA. 700+09 - STA. 702+20
STA. 707+26 - STA. 720+56
STA. 723+98 - STA. 763+94***



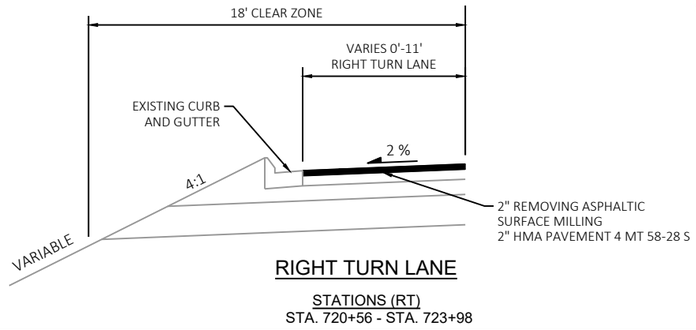
FINISHED TYPICAL HALF SECTION - NB AUXILIARY LANE

STATIONS (RT)
STA. 494+00 - STA. 500+44
STA. 625+73 - STA. 632+58
STA. 696+52 - STA. 710+70***
STA. 714+25 - STA. 729+71



BEAM GUARD SECTION

STATIONS (LT)
STA. 503+41 - STA. 511+98
STA. 702+20 - STA. 707+26***



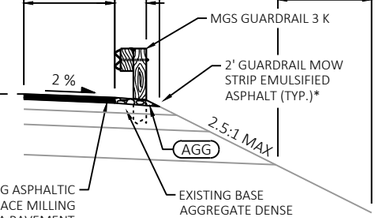
RIGHT TURN LANE

STATIONS (RT)
STA. 720+56 - STA. 723+98

*INSTALL GUARDRAIL MOW STRIP EMULSIFIED ASPHALT ALONG MGS GUARDRAIL WHERE THERE IS NO CURB & GUTTER

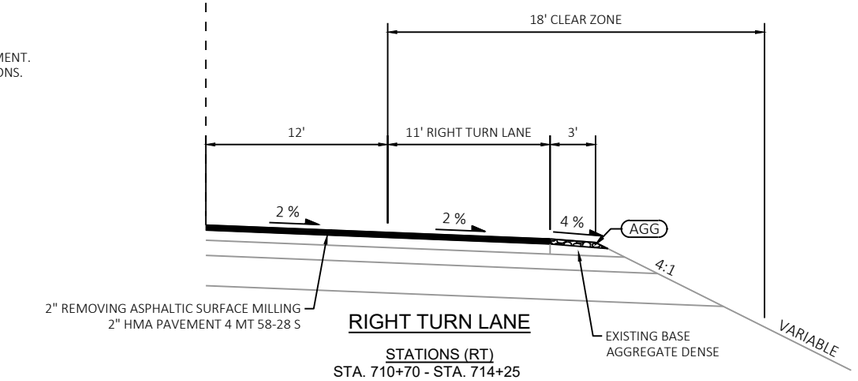
***STATION RANGES INCLUDE FULL RECONSTRUCTION SECTIONS DUE TO CULVERT REPLACEMENT. SEE PLAN DETAILS - TYPICAL SECTION FOR CULVERT PIPE REPLACEMENT FOR SPECIFIC STATIONS.
CULVERT AREA:
2" HMA PAVEMENT 4 MT 58-28 S - UPPER LAYER
2" HMA PAVEMENT 4 MT 58-28 S - MIDDLE LAYER
2" HMA PAVEMENT 4 MT 58-28 S - LOWER LAYER

LEGEND	
AGG	2" BASE AGGREGATE DENSE 3/4-INCH
PF	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
HMA	2" ASPHALTIC SURFACE
CLRS	ASPHALTIC RUMBLE STRIPS, CENTERLINE
SRS-1	ASPHALTIC RUMBLE STRIPS, SHOULDER



BEAM GUARD SECTION

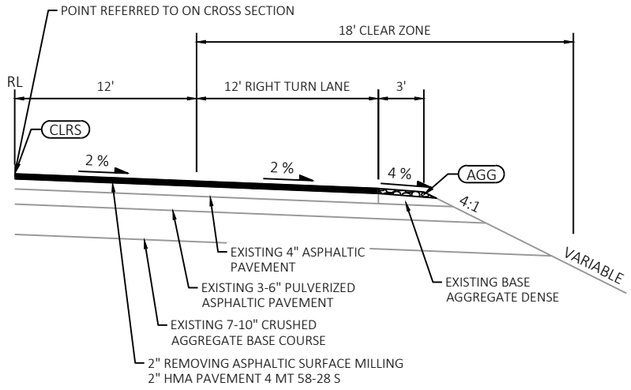
STATIONS (RT)
STA. 729+71 - STA. 739+33***



RIGHT TURN LANE

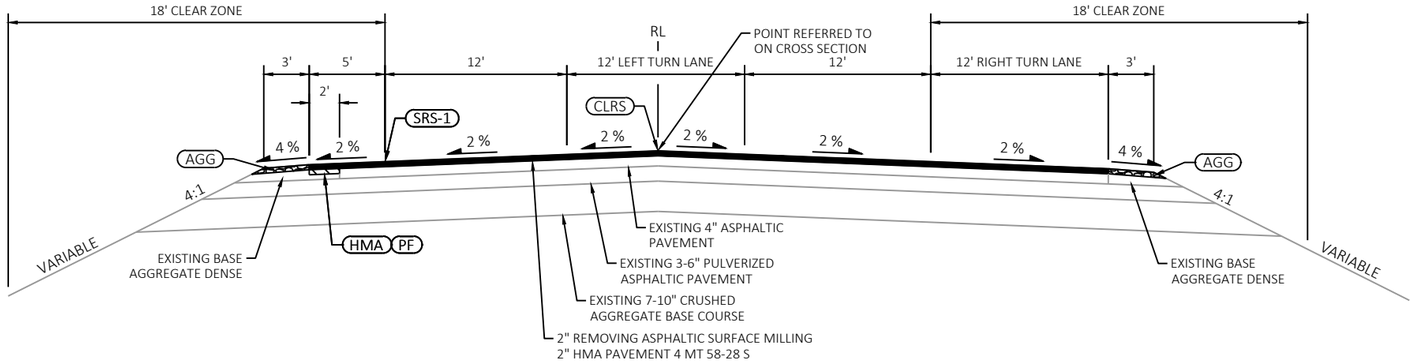
STATIONS (RT)
STA. 710+70 - STA. 714+25

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	TYPICAL SECTIONS STH 69	SHEET 9	E



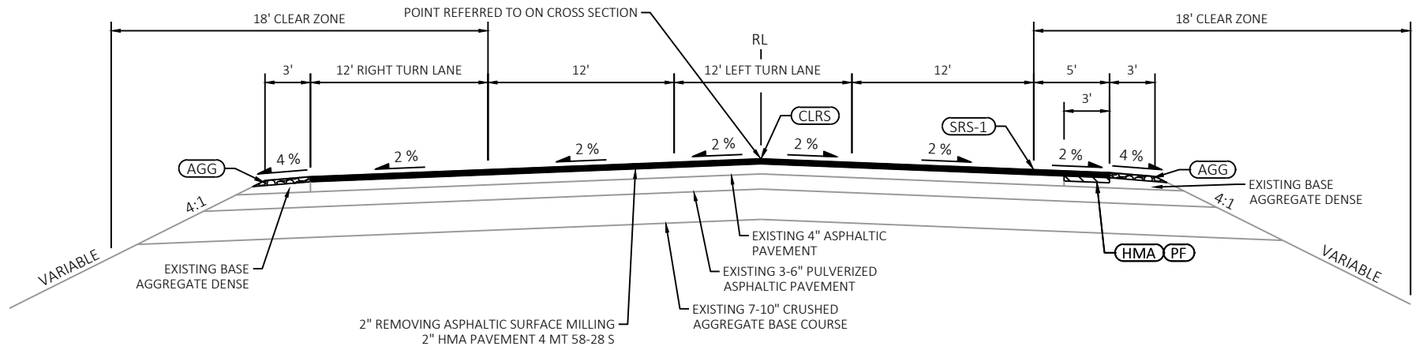
FINISHED TYPICAL HALF SECTION - RIGHT TURN LANE

STATIONS (RT)
STA. 739+33 - STA. 740+90



FINISHED TYPICAL SECTION

STATIONS
STA. 548+90 - STA. 555+10



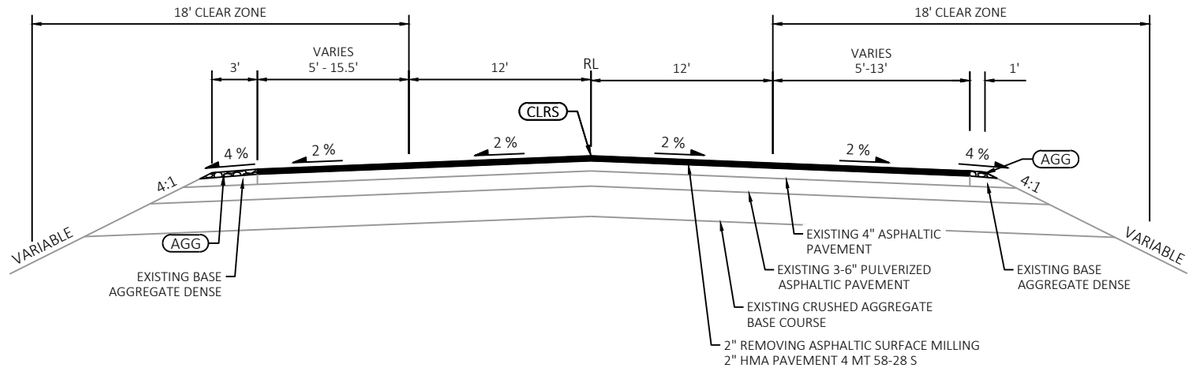
FINISHED TYPICAL SECTION

STATIONS
STA. 555+10 - STA. 559+03

*** STATION RANGES INCLUDE FULL RECONSTRUCTION SECTIONS DUE TO CULVERT REPLACEMENT. SEE PLAN DETAILS - TYPICAL SECTION FOR CULVERT PIPE REPLACEMENT FOR SPECIFIC STATIONS.
CULVERT AREA:
2" HMA PAVEMENT 4 MT 58-28 S - UPPER LAYER
2" HMA PAVEMENT 4 MT 58-28 S - MIDDLE LAYER
2" HMA PAVEMENT 4 MT 58-28 S - LOWER LAYER

LEGEND

AGG	2" BASE AGGREGATE DENSE 3/4-INCH
PF	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
HMA	2" ASPHALTIC SURFACE
CLRS	ASPHALTIC RUMBLE STRIPS, CENTERLINE
SRS-1	ASPHALTIC RUMBLE STRIPS, SHOULDER



FINISHED TYPICAL SECTION

STATIONS

STA. 559+03 - STA. 564+97

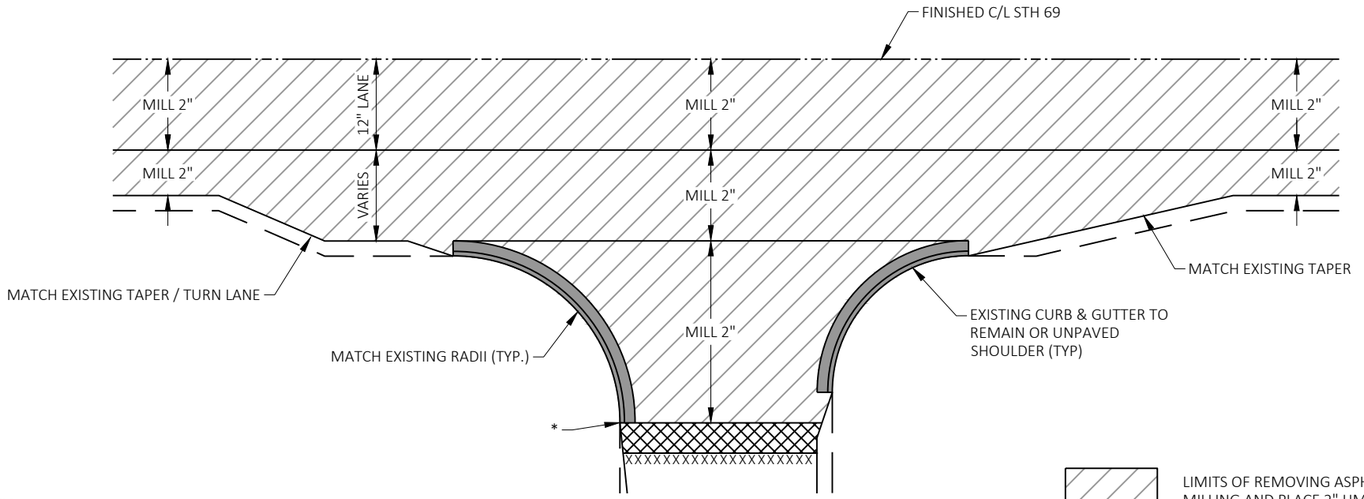
***STATION RANGES INCLUDE FULL RECONSTRUCTION SECTIONS DUE TO CULVERT REPLACEMENT. SEE PLAN DETAILS - TYPICAL SECTION FOR CULVERT PIPE REPLACEMENT FOR SPECIFIC STATIONS.

CULVERT AREA:
2" HMA PAVEMENT 4 MT 58-28 S - UPPER LAYER
2" HMA PAVEMENT 4 MT 58-28 S - MIDDLE LAYER
2" HMA PAVEMENT 4 MT 58-28 S - LOWER LAYER

LEGEND

AGG	2" BASE AGGREGATE DENSE 3/4-INCH
PF	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
HMA	2" ASPHALTIC SURFACE
CLRS	ASPHALTIC RUMBLE STRIPS, CENTERLINE
SRS-1	ASPHALTIC RUMBLE STRIPS, SHOULDER

2

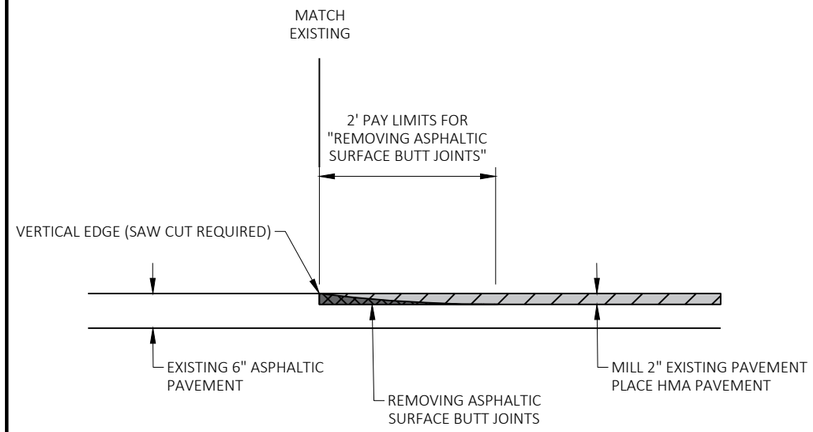


LIMITS OF REMOVING ASPHALTIC SURFACE MILLING AND PLACE 2" HMA PAVEMENT 4 MT 58-28 S

REMOVING ASPHALTIC SURFACE BUTT JOINTS SEE BUTT JOINT DETAL

TYPICAL SIDE ROAD PAVING LIMITS

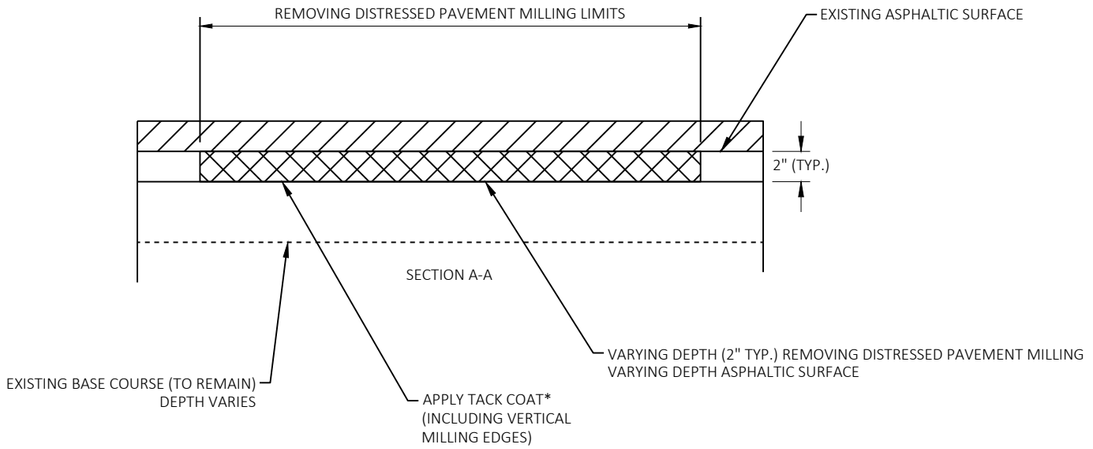
* MILL AND OVERLAY TO RADIUS POINT FARTHEST FROM MAINLINE STH 69

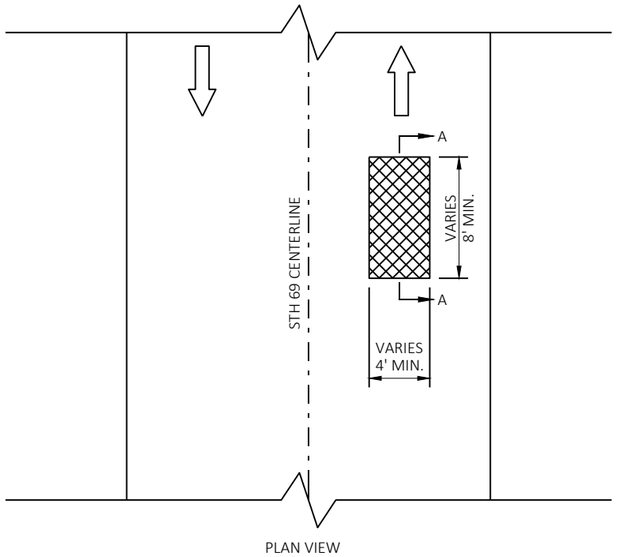


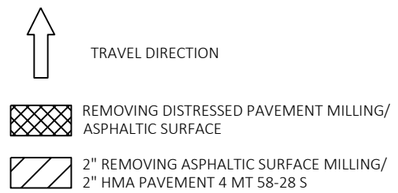
BUTT JOINT TO MATCH EXISTING

ROUND GROVE ROAD	STA 138+96
AEBLY ROAD	STA 139+02
ABELS ROAD	STA 183+59
BENKERT ROAD	STA 195+47
COLD SPRINGS ROAD	STA 216+62
COLD SPRINGS ROAD	STA 253+69
ALLISON ROAD	STA 279+79
HARPER ROAD	STA 306+51
HOLLOWAY ROAD	STA 326+86
DOR MONT ROAD	STA 335+99
CHESEBRO LANE	STA 339+33
WASHINGTON ROAD	STA 375+52
GUTZMER ROAD	STA 426+40
COATES AVENUE	STA 554+10
WASHINGTON ROAD	STA 555+42
HEFTY ROAD	STA 629+27
EXETER CROSSING ROAD	STA 714+96
CTH NN	STA 719+88
VALLEY VIEW ROAD	STA 727+32

2



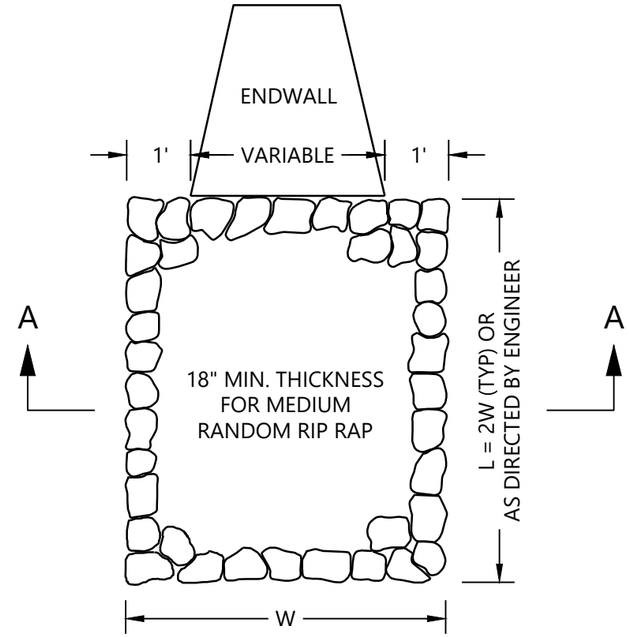


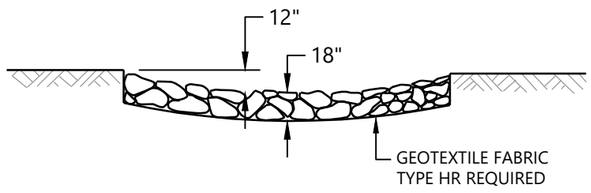


REMOVING DISTRESSED PAVEMENT MILLING

NOTE: EXACT LOCATION AND LIMITS OF REMOVING DISTRESSED PAVEMENT MILLING TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*DO NOT APPLY TACK COAT ON EXPOSED BASE COURSE

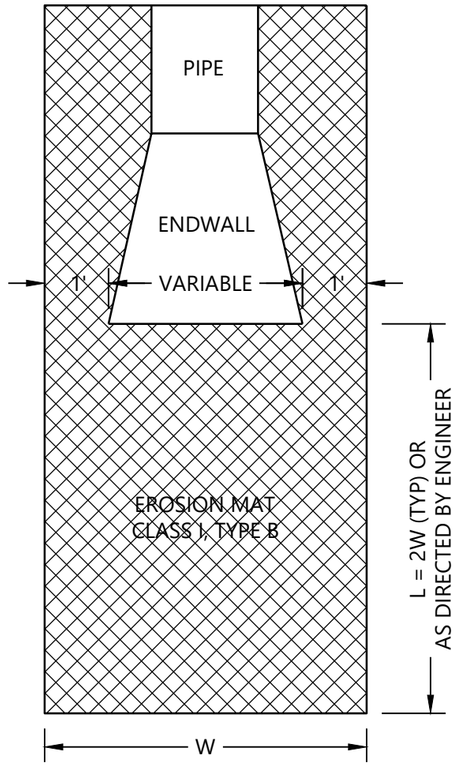




SECTION A-A

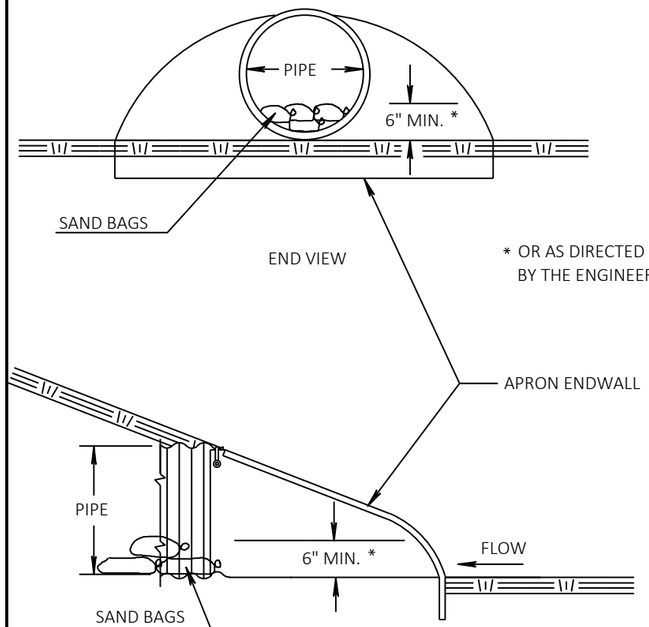
MEDIUM RANDOM RIPRAP TREATMENT AT CULVERTS

SEE EROSION CONTROL PLANS FOR
RIPRAP LOCATIONS



EROSION MAT TREATMENT AT CULVERTS

SEE EROSION CONTROL PLANS FOR
EROSION MAT LOCATIONS



SIDE VIEW

APPROXIMATE NUMBER OF SAND BAGS REQUIRED BY PIPE SIZE

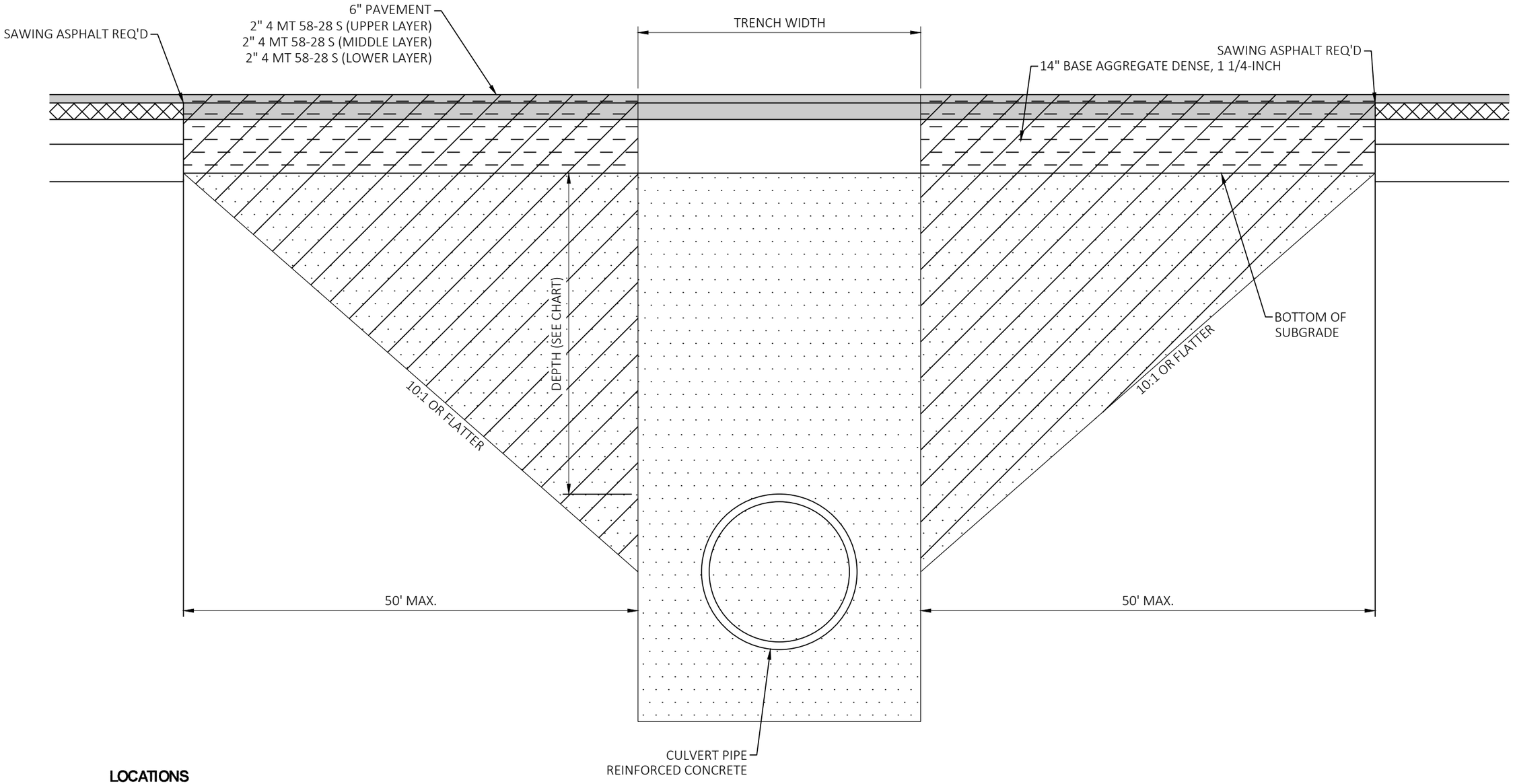
PIPE SIZE (IN)	SAND BAGS (EACH)
12	1
15	1
18	1
24	2
30	2
36	3
42	5
48	6
54	8
19x30	2
24x38	2
34x53	3

BASED ON A BAG
SIZE OF 18"x12"x6"

CULVERT PIPE CHECK

(SEE EROSION CONTROL PLAN FOR LOCATIONS)

2



LOCATIONS

STATION	PIPE SIZE (IN)	DEPTH (IN)
246+08	24	3.61
262+16	24	4.83
384+93	24	4.47
640+90	30	3.09

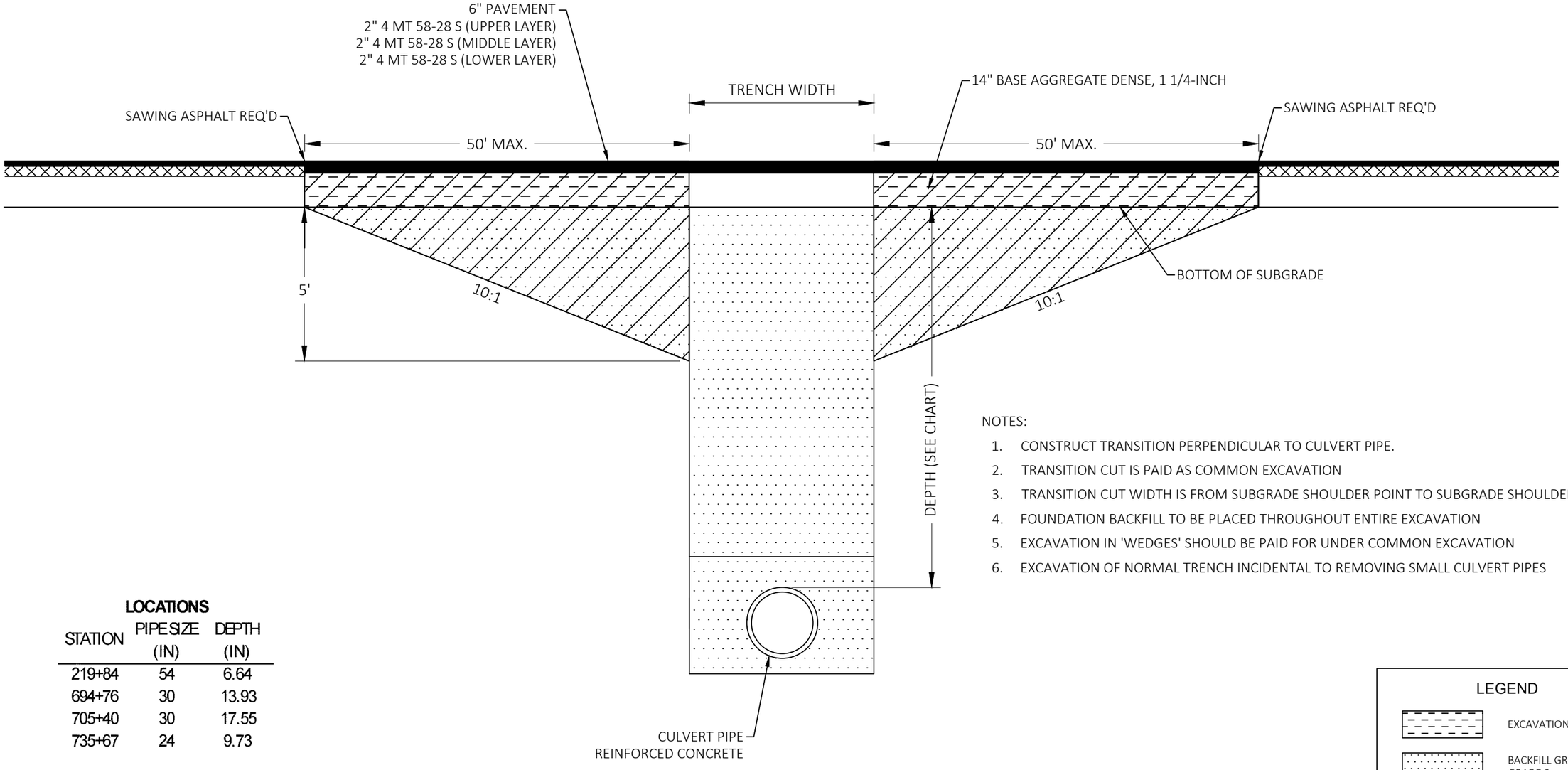
NOTES:

1. CONSTRUCT TRANSITION PERPENDICULAR TO CULVERT PIPE.
2. TRANSITION CUT IS PAID AS COMMON EXCAVATION
3. TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT
4. FOUNDATION BACKFILL TO BE PLACED THROUGHOUT ENTIRE EXCAVATION
5. EXCAVATION IN 'WEDGES' SHOULD BE PAID FOR UNDER COMMON EXCAVATION
6. EXCAVATION OF NORMAL TRENCH INCIDENTAL TO REMOVING SMALL CULVERT PIPES

LEGEND

- EXCAVATION COMMON
- BACKFILL GRANULAR GRADE 2
- TRANSITION CUT

2



LOCATIONS

STATION	PIPE SIZE (IN)	DEPTH (IN)
219+84	54	6.64
694+76	30	13.93
705+40	30	17.55
735+67	24	9.73

NOTES:

1. CONSTRUCT TRANSITION PERPENDICULAR TO CULVERT PIPE.
2. TRANSITION CUT IS PAID AS COMMON EXCAVATION
3. TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT
4. FOUNDATION BACKFILL TO BE PLACED THROUGHOUT ENTIRE EXCAVATION
5. EXCAVATION IN 'WEDGES' SHOULD BE PAID FOR UNDER COMMON EXCAVATION
6. EXCAVATION OF NORMAL TRENCH INCIDENTAL TO REMOVING SMALL CULVERT PIPES

LEGEND

- EXCAVATION COMMON
- BACKFILL GRANULAR GRADE 2
- TRANSITION CUT

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS - TYPICAL SECTION FOR CULVERT PIPE REPLACEMENT	SHEET 16	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_021201_PD.DWG
LAYOUT NAME - 11 - PLAN DETAILS - TYPICAL SECTION FOR CULVERT PIPE REPLACEMENT
PLOT DATE : 7/30/2025 8:22 AM PLOT BY : RYAN RUDZINSKI PLOT NAME : PLOT SCALE : 1:7
WISDOT/CADDS SHEET 42

2

2

AMERICAN TRANSMISSION CO. OVERHEAD ELEC.

CAUTION

R/W

OH

STA 219+64, 45.4' LT
APRON ENDWALLS FOR CPRC 54-INCH REQ'D
INV - 1016.37

96' CPRC CLASS III 54-INCH @ 0.64%

REMOVE 48" CPCM

STA 219+38 (SAWCUT)

STA 219+85 SKEW 25° RHF

STA 220+30 (SAWCUT)

STH 69

219

220

221

MILL & OVERLAY

FULL DEPTH PAVEMENT REPLACEMENT

MILL & OVERLAY

STA. 218+77 RT ASPHALT P.E.

SLOPE INTERCEPT (TYP)

STA 220+05, 41.6' RT
APRON ENDWALLS FOR CPRC 54-INCH REQ'D
INV - 1016.99

R/W

EX. FENCE

FO

TDS METRO COMM UNDERGROUND FIBER OPTICS
(UTELCO LLC)

T

TDS METRO COMM UNDERGROUND TELEPHONE
(MT VERNON TELEPHONE)

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS - 54-INCH CPRC, STA. 219+84	SHEET 17	E

2

2

N

R/W

FO FO FO FO FO FO FO

EX. FENCE

TDS METRO COMM UNDERGROUND FIBER OPTICS
(UTELCO LLC)

REMOVE 24" CPCM

STA 246+08, 51.9' LT
APRON ENDWALLS FOR CPRC 24-INCH REQ'D
INV - 1087.11

SLOPE INTERCEPT (TYP)

88' CPRC CLASS III 24-INCH @ 3.85%

STA 246+19 (SAWCUT)

STA 245+97 (SAWCUT)

STH 69

245 246 247

FULL DEPTH PAVEMENT REPLACEMENT

MILL & OVERLAY

MILL & OVERLAY

STA 246+08, 36.1' RT
APRON ENDWALLS FOR CPRC 24-INCH REQ'D
INV - 1090.50

TDS METRO COMM UNDERGROUND TELEPHONE
(MT VERNON TELEPHONE)

T T T T T T T T

R/W

OH OH OH OH OH OH OH OH OH OH OH OH

CAUTION

AMERICAN TRANSMISSION CO. OVERHEAD ELEC.

FO FO FO FO FO FO FO FO FO FO

TDS METRO COMM UNDERGROUND FIBER OPTICS
(UTELCO LLC)

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS - 24-INCH CPCS, STA. 246+08	SHEET 18	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_021201_PD.DWG
LAYOUT NAME - 246+08

PLOT DATE : 7/21/2025 12:52 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

N

TDS METRO COMM UNDERGROUND FIBER OPTICS
(UTELCO LLC)

TDS TELECOM

R/W

TDS METRO COMM UNDERGROUND TELEPHONE
(MT VERNON TELEPHONE)

SLOPE INTERCEPT (TYP)

STA 262+15, 47.6' LT
APRON ENDWALLS FOR CPRC 24-INCH REQ'D
INV - 1055.70

MILL & OVERLAY

FULL DEPTH PAVEMENT REPLACEMENT

MILL & OVERLAY

STA 261+92 (SAWCUT)

STA 262+40 (SAWCUT)

261

262

263

STH 69

88' CPRC CLASS III 24-INCH @ 2.40%

STA 262+15, 40.4' RT
APRON ENDWALLS FOR CPRC 24-INCH REQ'D
INV - 1053.59

TDS TELECOM

TDS TELECOM

REMOVE 24" CPCM

EX. FENCE

R/W

CAUTION

AMERICAN TRANSMISSION CO. OVERHEAD ELEC.

TDS METRO COMM UNDERGROUND TELEPHONE
(MT VERNON TELEPHONE)

TDS METRO COMM UNDERGROUND FIBER OPTICS
(UTELCO LLC)

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS - 24-INCH CPCS, STA. 262+16	SHEET 19	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_021201_PD.DWG
LAYOUT NAME - 262+16

PLOT DATE : 7/21/2025 12:52 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

2

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TDS METRO COMM UNDERGROUND FIBER OPTICS
(UTELCO LLC)

FO FO FO FO FO FO FO

TDS METRO COMM UNDERGROUND TELEPHONE
(MT VERNON TELEPHONE)

T T T T T T T

SLOPE INTERCEPT (TYP)

R/W

STA 385+06, 40.5' LT
APRON ENDWALLS FOR CPRC 24-INCH REQ'D
INV - 852.75

80' CPRC CLASS III 24-INCH @ 1.25%

PT: 384+09.74

STA 384+92 SKEW 21° LHF

STA 384+68 (SAWCUT)

STA 385+15 (SAWCUT)

STH 69

384

385

386

MILL & OVERLAY

FULL DEPTH PAVEMENT REPLACEMENT

MILL & OVERLAY

REMOVE 24" CPCM

STA 384+78, 34.4' RT
APRON ENDWALLS FOR CPRC 24-INCH REQ'D
INV - 853.75

R/W

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS - 24-INCH CPCS, STA. 384+93	SHEET 20	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_021201_PD.DWG
LAYOUT NAME - 384+93

PLOT DATE : 7/21/2025 12:53 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

N

TDS METRO COMM UNDERGROUND TELEPHONE
(MT VERNON TELEPHONE)

R/W

EX. FENCE

ALLIANT ENERGY OVERHEAD ELEC.

SLOPE INTERCEPT (TYP)

STA 640+89, 42.0' LT
APRON ENDWALLS FOR CPRC 30-INCH REQ'D
INV - 864.30

ALLIANT ENERGY OVERHEAD ELEC.

72' CPRC CLASS IV 30-INCH @ 4.10%

STA 640+77 (SAWCUT)

STA 641+00 (SAWCUT)

STH 69

640

641

642

MILL & OVERLAY

FULL DEPTH PAVEMENT REPLACEMENT

MILL & OVERLAY

STA. 639+61 RT BASE AGG C.E.

REMOVE 30" CPCM

STA 640+89, 30.0' RT
APRON ENDWALLS FOR CPRC 30-INCH REQ'D
INV - 867.26

EX. WETLAND

ALLIANT ENERGY OVERHEAD ELEC.

500 SF DISTURBED WETLAND

R/W

EX. FENCE

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS - 30-INCH CPCS, STA. 640+90	SHEET 21	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_021201_PD.DWG
LAYOUT NAME - 640+90

PLOT DATE : 7/21/2025 12:53 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

TDS METRO COMM UNDERGROUND TELEPHONE
(MT VERNON TELEPHONE)

T

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x x x

FO

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FO

FO

TDS METRO COMM UNDERGROUND FIBER OPTICS
(UTELCO LLC)

N

R/W

STA 694+77, 67.0' LT
APRON ENDWALLS FOR CPRC 30-INCH REQ'D
INV - 935.10

REMOVE 30" CPCM

128' CPRC CLASS IV 30-INCH @ 2.85%

STA 694+25 (SAWCUT)

STA 695+29 (SAWCUT)

STH 69

694

695

696

MILL & OVERLAY

FULL DEPTH PAVEMENT REPLACEMENT

MILL & OVERLAY

STA. 693+31 RT BASE AGG C.E.

SLOPE INTERCEPT (TYP)

STA 694+77, 61.0' RT
APRON ENDWALLS FOR CPRC 30-INCH REQ'D
INV - 938.75

R/W

2

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS - 30-INCH CPCS, STA. 694+76	SHEET 22	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_021201_PD.DWG
LAYOUT NAME - 694+76

PLOT DATE : 7/21/2025 12:53 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

FO

FO

TDS METRO COMM UNDERGROUND FIBER OPTICS
(UTELCO LLC)

R/W

N

STA 705+12, 72.7' LT
APRON ENDWALLS FOR CPRC 30-INCH REQ'D
INV - 971.85

STA 705+41 SKEW 22° RHF
160' CPRC CLASS IV 30-INCH @ 5.00%

STA 704+78 (SAWCUT)

STA 706+11 (SAWCUT)

STH 69

704

705

706

MILL & OVERLAY

FULL DEPTH PAVEMENT RECONSTRUCTION

MILL & OVERLAY

REMOVE 30" CPCM

SLOPE INTERCEPT (TYP.)

STA 705+72, 75.6' RT
APRON ENDWALLS FOR CPRC 30-INCH REQ'D
INV - 979.85

R/W

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS - 30-INCH CPRC, STA. 705+40	SHEET 23	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_021201_PD.DWG
LAYOUT NAME - 705+40

PLOT DATE : 7/21/2025 12:53 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

2

R/W

TDS METRO COMM UNDERGROUND FIBER OPTIC
(UTELCO LLC)

FO FO FO FO FO FO FO

STA 735+35, 53.7' LT
APRON ENDWALLS FOR CPRC 24-INCH REQ'D
INV - 986.15

MILL & OVERLAY

FULL DEPTH PAVEMENT REPLACEMENT

MILL & OVERLAY

STA 735+08 (SAWCUT)

STA 735+67 SKEW 30° RHF

STA 736+34 (SAWCUT)

STH 69

734 735 736 737

120' CPRC CLASS III 24-INCH @ 3.00%

SLOPE INTERCEPT (TYP)

REMOVE 24" CPCM

STA 735+96, 49.8' RT
APRON ENDWALLS FOR CPRC 24-INCH REQ'D
INV - 982.55

R/W

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS - 24-INCH CPRC, STA. 735+67	SHEET 24	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_021201_PD.DWG
LAYOUT NAME - 735+67

PLOT DATE : 7/21/2025 12:53 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT

TDS METRO COMM UNDERGROUND FIBER OPTICS

WE ENERGIES GAS

CAUTION

ALLIANT ELECTRIC OVER HEAD

TDS METRO COMM UNDERGROUND TELEPHONE

R/W

N

MATCH LINE 117+30

STH 69

112 113 114 115 116 117

TDS METRO COMM PEDESTAL

STA. 112+60 RT BASE AGG P.E.

SLOPE INTERCEPT (TYP)

TDS METROCOMM UNDERGROUND FIBER OPTICS

WE ENERGIES GAS

ALLIANT ELECTRIC OVER HEAD

STA. 119+82 LT BASE AGG P.E.

GUY

VENT

118 119 120 STH 69 121 22

MATCH LINE 117+30

SLOPE INTERCEPT (TYP)

TDS METROCOMM UNDERGROUND TELEPHONE

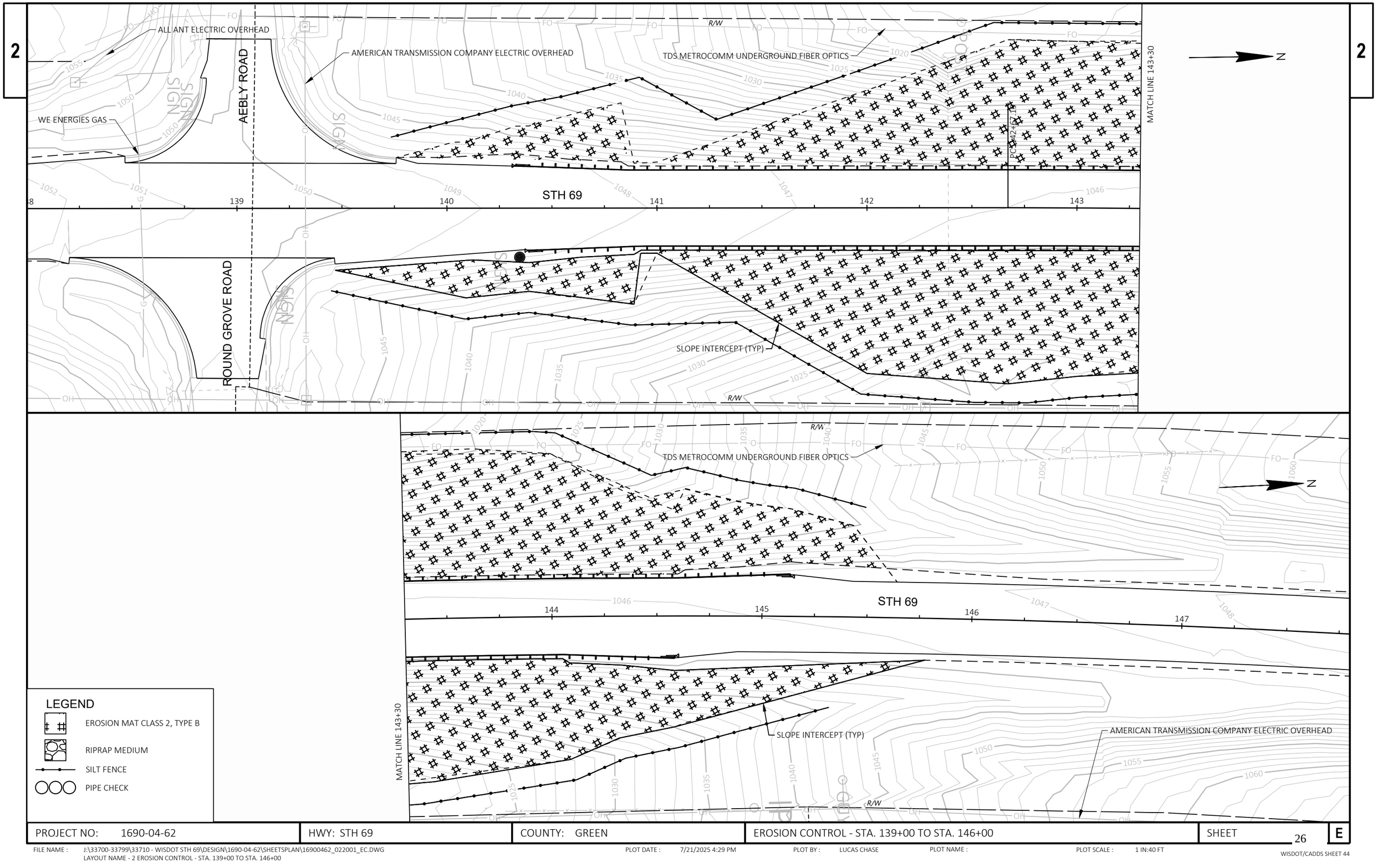
LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 112+00 TO STA. 121+00	SHEET 25	E

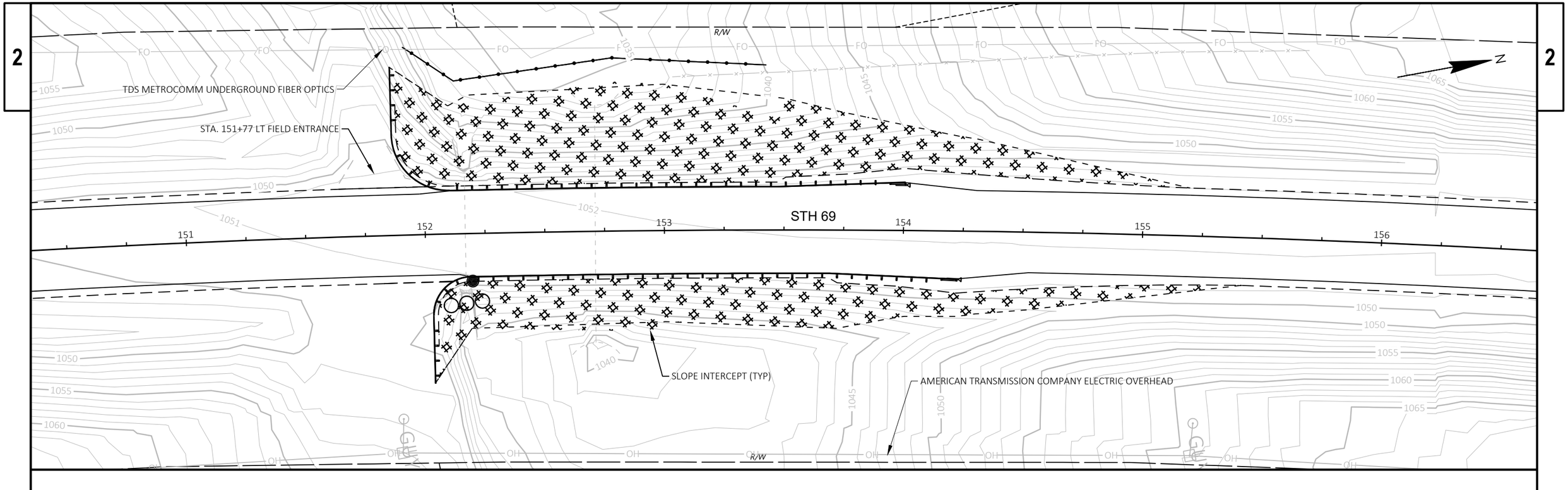
FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 1 EROSION CONTROL - STA. 112+00 TO STA. 121+00

PLOT DATE : 7/21/2025 4:29 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 139+00 TO STA. 146+00	SHEET 26	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 2 EROSION CONTROL - STA. 139+00 TO STA. 146+00
PLOT DATE : 7/21/2025 4:29 PM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 151+00 TO STA. 155+00	SHEET 27	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 3 EROSION CONTROL - STA. 151+00 TO STA. 155+00

PLOT DATE : 7/21/2025 4:29 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

R/W

FO

TDS METROCOMM UNDERGROUND FIBER OPTICS

MATCH LINE 169+30

STH 69

164 165 166 167 168

SLOPE INTERCEPT (TYP)

R/W

TDS METROCOMM UNDERGROUND FIBER OPTICS

SLOPE INTERCEPT (TYP)

PT: 171+47.41

STH 69

170 171 172 173

MATCH LINE 169+30

POST

AGGREGATE DRIVEWAY P.E.

N

2

LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 164+50 TO STA. 171+50	SHEET 28	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 4 EROSION CONTROL - STA. 164+50 TO STA. 171+50

PLOT DATE : 7/21/2025 4:29 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

STA. 177+40 LT BASE AGG P.E.

AMERICAN TRANSMISSION COMPANY ELECTRIC OVERHEAD

CAUTION

R/W

STH 69

177 178 179 180 181 182

MATCH LINE 182+30

2

LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

TDS METROCOMM UNDERGROUND FIBER OPTICS

SLOPE INTERCEPT (TYP)

R/W

STH 69

183 184 185 186 187 188

MATCH LINE 182+30

ABELS ROAD

SLOPE INTERCEPT (TYP)

C-23-2001

R/W

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 177+00 TO STA. 187+50	SHEET 29	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 5 EROSION CONTROL - STA. 177+00 TO STA. 187+50

PLOT DATE : 7/21/2025 4:29 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

AMERICAN TRANSMISSION CO. OVERHEAD ELEC.

R/W

STH 69

STA. 218+77 RT ASPHALT P.E.

SLOPE INTERCEPT (TYP)

TDS METROCOMM UNDERGROUND FIBER OPTICS

TDS METROCOMM UNDERGROUND TELEPHONE

R/W

TDS METROCOMM UNDERGROUND FIBER OPTICS

STH 69

STA. 233+38 RT BASE AGG C.E.

TDS METROCOMM UNDERGROUND TELEPHONE

R/W

LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 219+84 AND STA. 234+08	SHEET 30	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 6 EROSION CONTROL - STA. 219+84 AND STA. 234+08

PLOT DATE : 7/21/2025 4:29 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

TDS METROCOMM UNDERGROUND FIBER OPTICS

N

R/W

243 244 245 246 STH 69 247 248 249

SLOPE INTERCEPT (TYP)

AMERICAN TRANSMISSION CO. OVERHEAD ELEC.

R/W

TDS METROCOMM UNDERGROUND TELEPHONE

TDS METROCOMM UNDERGROUND FIBER OPTICS

TDS METROCOMM UNDERGROUND FIBER OPTICS

TDS TELECOM

N

R/W

TDS METROCOMM UNDERGROUND TELEPHONE

259 260 261 262 263 264 265

STH 69

TDS TELECOM

SLOPE INTERCEPT (TYP)

TDS TELECOM

STA. 264+26 RT BASE AGG P.E.

R/W

AMERICAN TRANSMISSION CO. OVERHEAD ELEC.

TDS METROCOMM UNDERGROUND TELEPHONE

TDS METROCOMM UNDERGROUND FIBER OPTICS

LEGEND

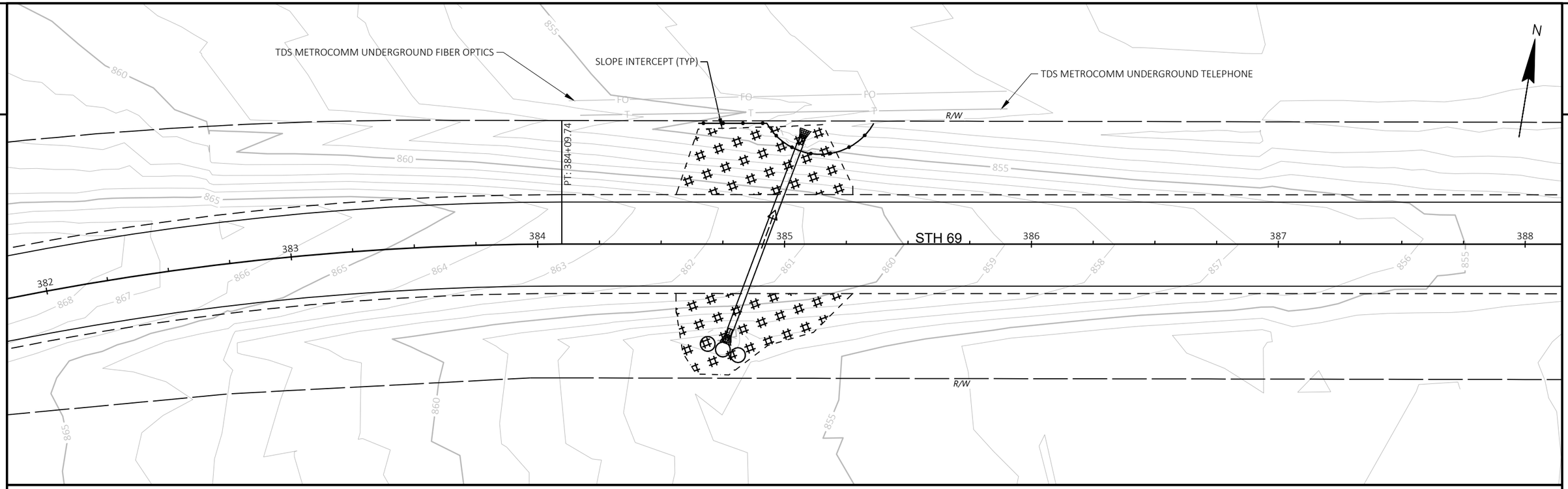
- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 246+08 AND STA. 262+16	SHEET 31	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 7 EROSION CONTROL - STA. 246+08 AND STA. 262+16

PLOT DATE : 7/21/2025 4:30 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT

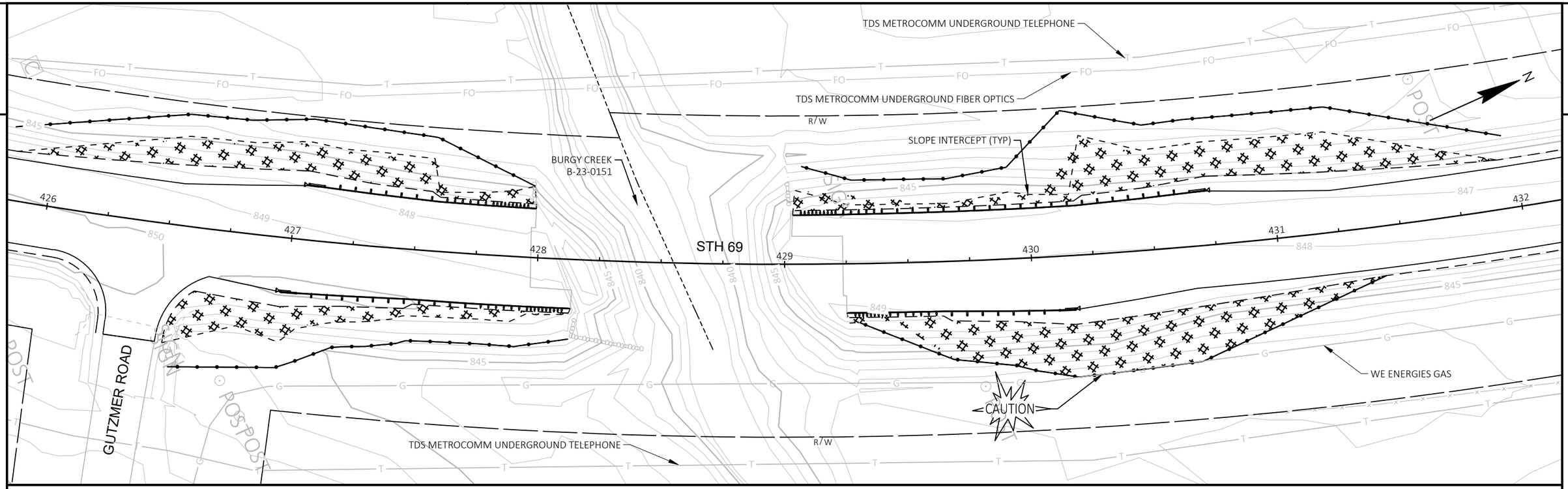
WISDOT/CADDS SHEET 44



LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 384+93	SHEET 32	E



LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 426+00 TO STA. 432+00	SHEET 33	E

2

2

R/W

MATCH LINE 505+30

STH 69

500 501 502 503 504 505

SLOPE INTERCEPT (TYP)

CAUTION

WE ENERGIES GAS

POST

R/W

LEGEND

EROSION MAT CLASS 2, TYPE B

RIPRAP MEDIUM

SILT FENCE

PIPE CHECK

R/W

MATCH LINE 510+60

STH 69

506 507 508 509 510

WE ENERGIES GAS

SLOPE INTERCEPT (TYP)

MATCH LINE 505+30

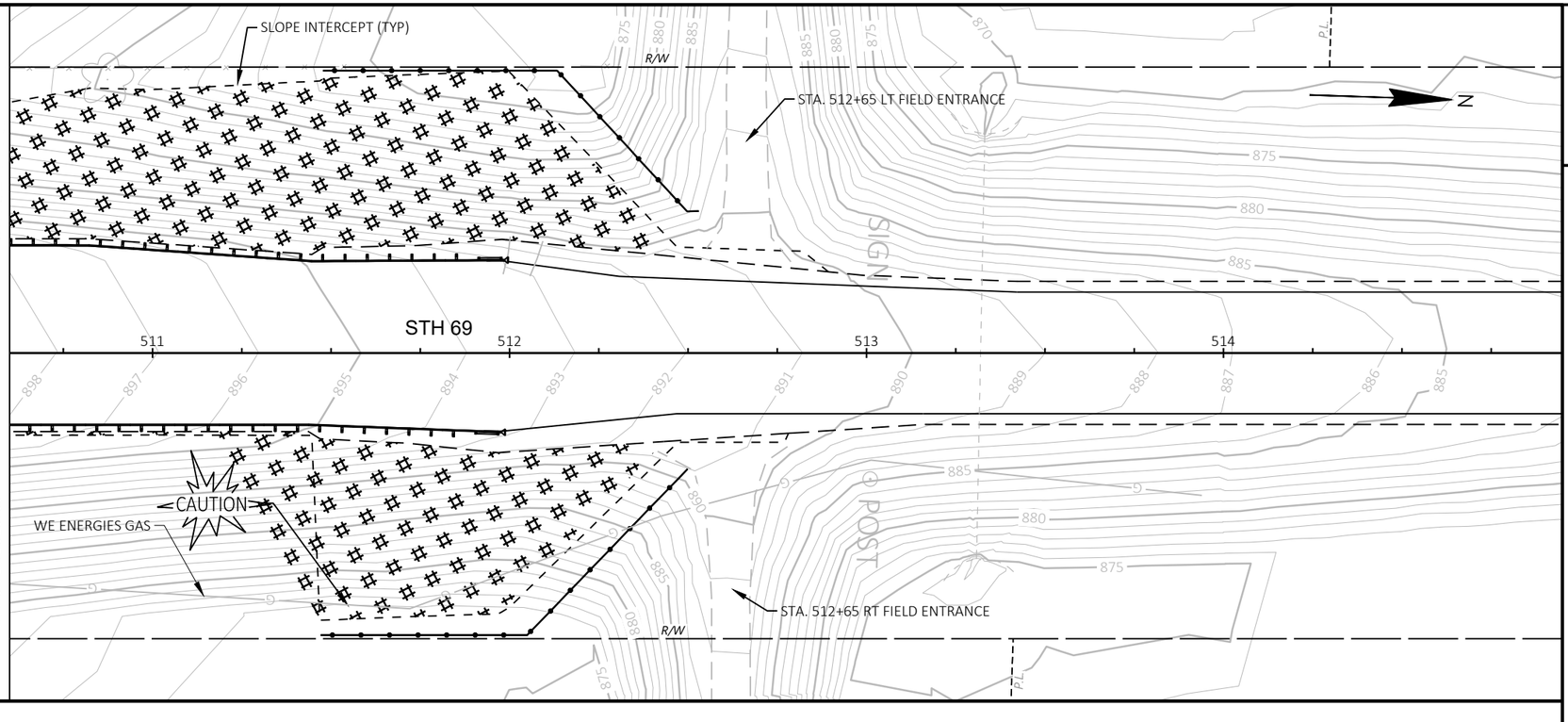
R/W

P.I.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 500+00 TO STA. 513+00	SHEET 34	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 10 EROSION CONTROL - STA. 500+00 TO STA. 513+00

PLOT DATE : 7/21/2025 4:30 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT



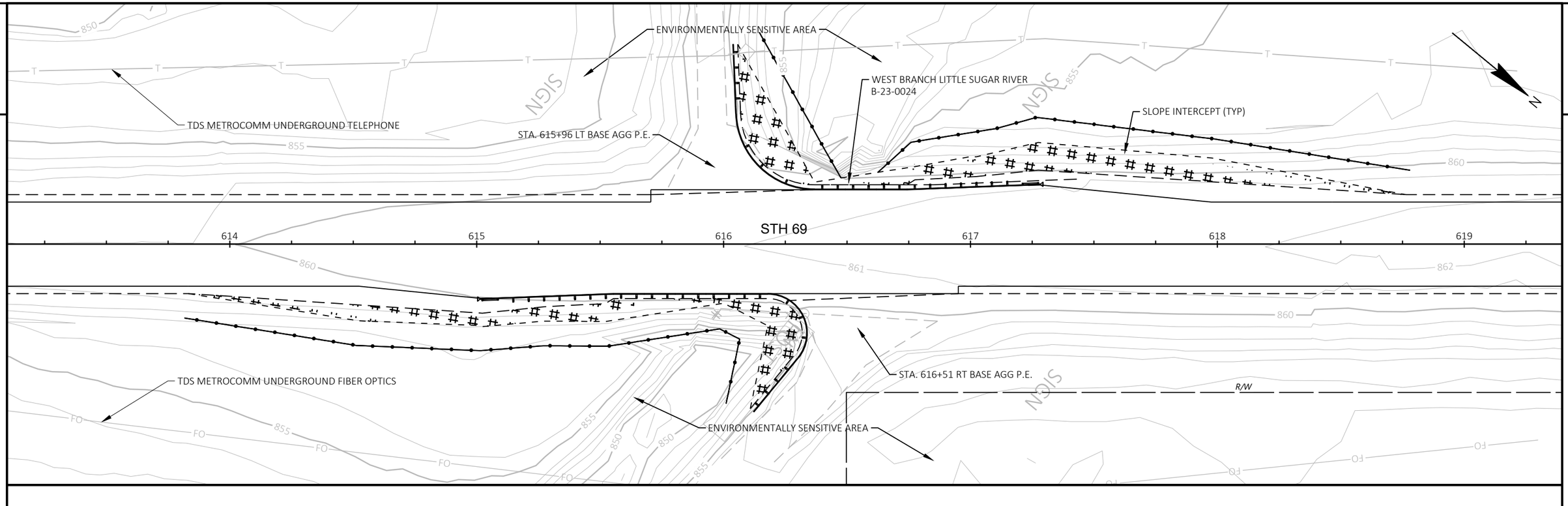
LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 500+00 TO STA. 513+00	SHEET 35	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 11 EROSION CONTROL - STA. 500+00 TO STA. 513+00

PLOT DATE : 7/21/2025 4:30 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT



LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 614+00 TO STA. 618+50	SHEET 36	E

2

TDS METROCOMM UNDERGROUND TELEPHONE

ALLIANT ENERGY OVERHEAD ELEC.

ALLIANT ENERGY OVERHEAD ELEC.

SLOPE INTERCEPT (TYP)

R/W

STH 69

638 639 640 641 642 643 644

STA. 639+61 RT BASE AGG C.E.

EX. WETLAND

ALLIANT ENERGY OVERHEAD ELECTRIC

ALLIANT ENERGY OVERHEAD ELEC.

R/W

TDS METROCOMM UNDERGROUND TELEPHONE

TDS METROCOMM UNDERGROUND FIBER OPTICS

R/W

STH 69

692 693 694 695 696 697 698

STA. 639+61 RT BASE AGG C.E.

SLOPE INTERCEPT (TYP)

LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 640+90 AND STA. 694+76	SHEET 37	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 13 EROSION CONTROL - STA. 640+90 AND STA. 694+76

PLOT DATE : 7/21/2025 4:31 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT

TDS METROCOMM UNDERGROUND TELEPHONE

TDS METROCOMM UNDERRGROUND FIBER OPTICS

R/W

N

SIGN

STH 69

701 702 703 704 705 706

MATCH LINE 706+29.68

SLOPE INTERCEPT (TYP)

LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

TDS METROCOMM UNDERRGROUND FIBER OPTICS

SLOPE INTERCEPT (TYP)

R/W

N

MATCH LINE 711+59.68

707 708 709 710 711

STH 69

MATCH LINE 706+29.68

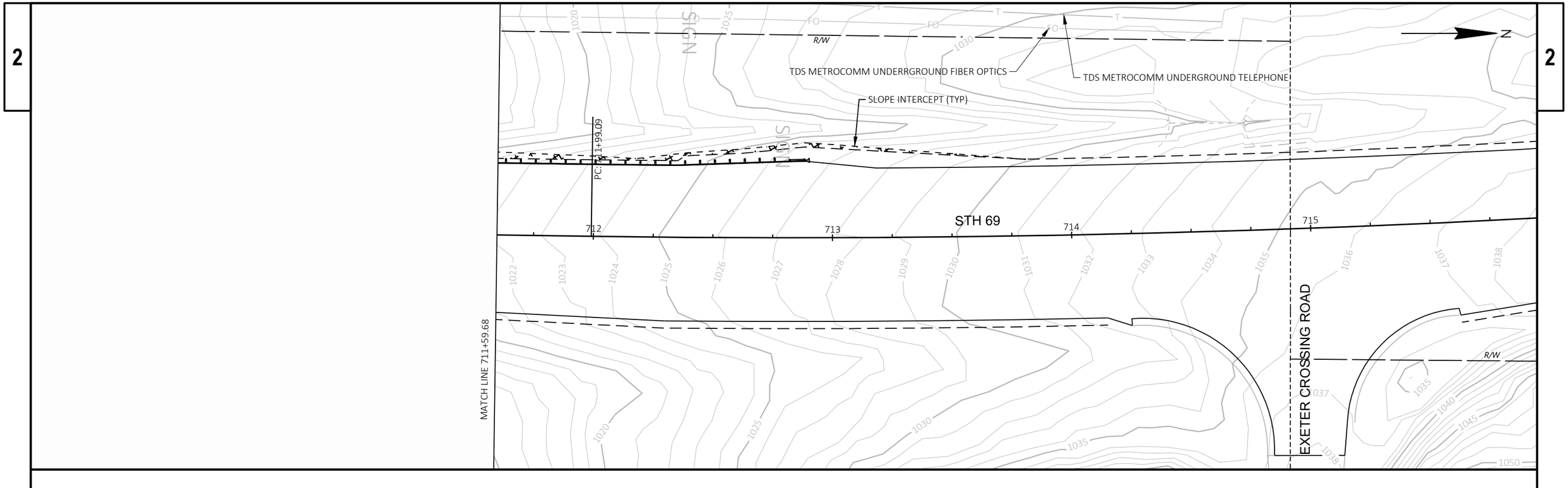
STA. 707+47 RT BASE AGG P.E.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 700+00 TO STA. 713+50	SHEET 38	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 14 EROSION CONTROL - STA. 700+00 TO STA. 713+50

PLOT DATE : 7/21/2025 4:31 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



LEGEND

- EROSION MAT CLASS 2, TYPE B
- RIPRAP MEDIUM
- SILT FENCE
- PIPE CHECK

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 700+00 TO STA. 713+50	SHEET 39	E

2

2

R/W

TDS METROCOMM UNDERGROUND FIBER OPTICS

FO

MATCH LINE 734+99.68

STH 69

729 730 731 732 733 734

SLOPE INTERCEPT (TYP)

R/W

R/W

TDS METROCOMM UNDERGROUND FIBER OPTICS

FO

PT 737+63.74

STH 69

735 736 737 738 739 740

STH 69

MATCH LINE 734+99.68

SLOPE INTERCEPT (TYP)

R/W

LEGEND

EROSION MAT CLASS 2, TYPE B

RIPRAP MEDIUM

SILT FENCE

PIPE CHECK

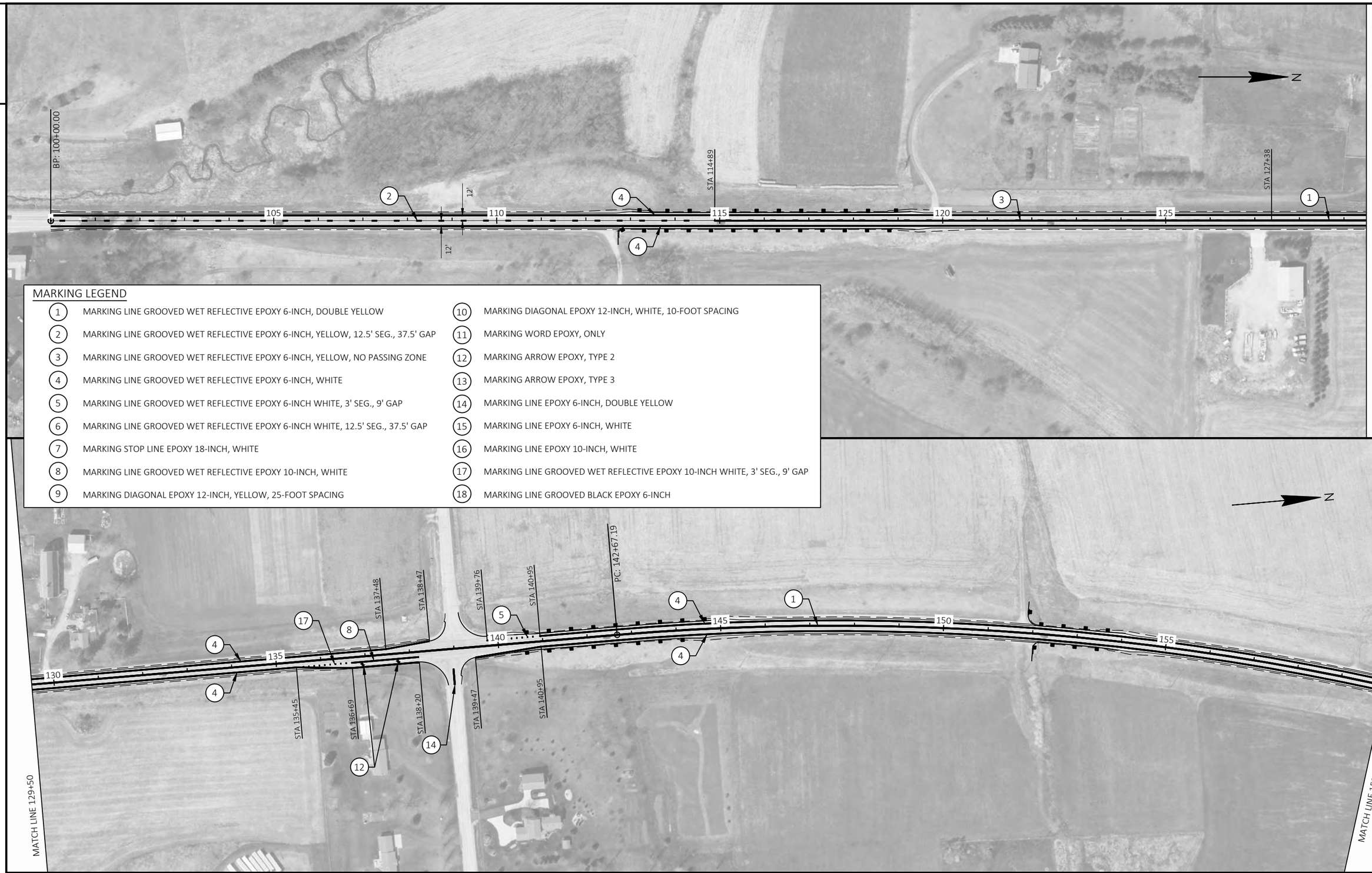
PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STA. 729+00 TO STA. 740+00	SHEET 40	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_022001_EC.DWG
LAYOUT NAME - 16 EROSION CONTROL - STA. 729+00 TO STA. 740+00

PLOT DATE : 7/21/2025 4:31 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2



2

MARKING LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW	10	MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP	11	MARKING WORD EPOXY, ONLY
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE	12	MARKING ARROW EPOXY, TYPE 2
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE	13	MARKING ARROW EPOXY, TYPE 3
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP	14	MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP	15	MARKING LINE EPOXY 6-INCH, WHITE
7	MARKING STOP LINE EPOXY 18-INCH, WHITE	16	MARKING LINE EPOXY 10-INCH, WHITE
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE	17	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
9	MARKING DIAGONAL EPOXY 12-INCH, YELLOW, 25-FOOT SPACING	18	MARKING LINE GROOVED BLACK EPOXY 6-INCH

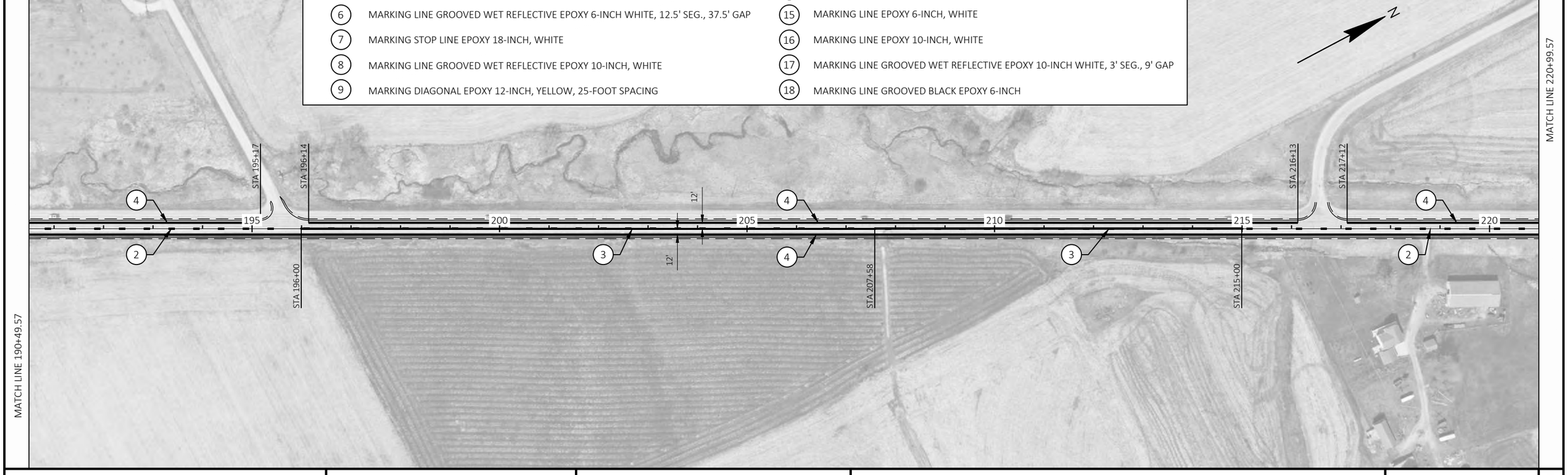
PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 41 E

2



MARKING LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP
7	MARKING STOP LINE EPOXY 18-INCH, WHITE
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9	MARKING DIAGONAL EPOXY 12-INCH, YELLOW, 25-FOOT SPACING
10	MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
11	MARKING WORD EPOXY, ONLY
12	MARKING ARROW EPOXY, TYPE 2
13	MARKING ARROW EPOXY, TYPE 3
14	MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
15	MARKING LINE EPOXY 6-INCH, WHITE
16	MARKING LINE EPOXY 10-INCH, WHITE
17	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
18	MARKING LINE GROOVED BLACK EPOXY 6-INCH



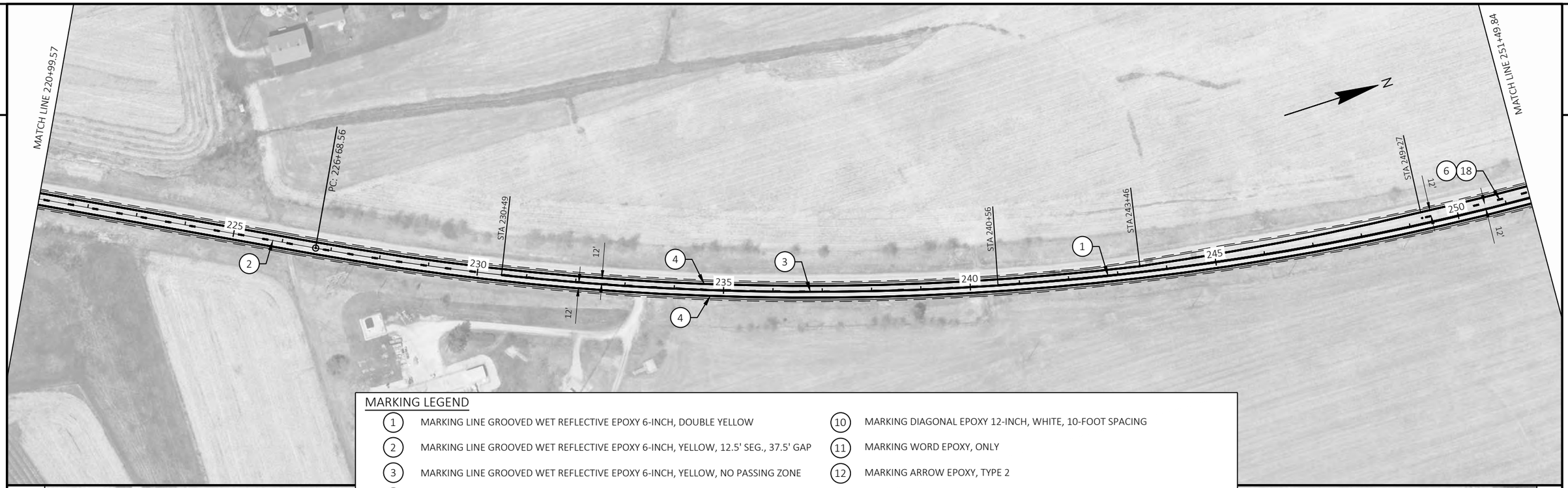
PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 42	E

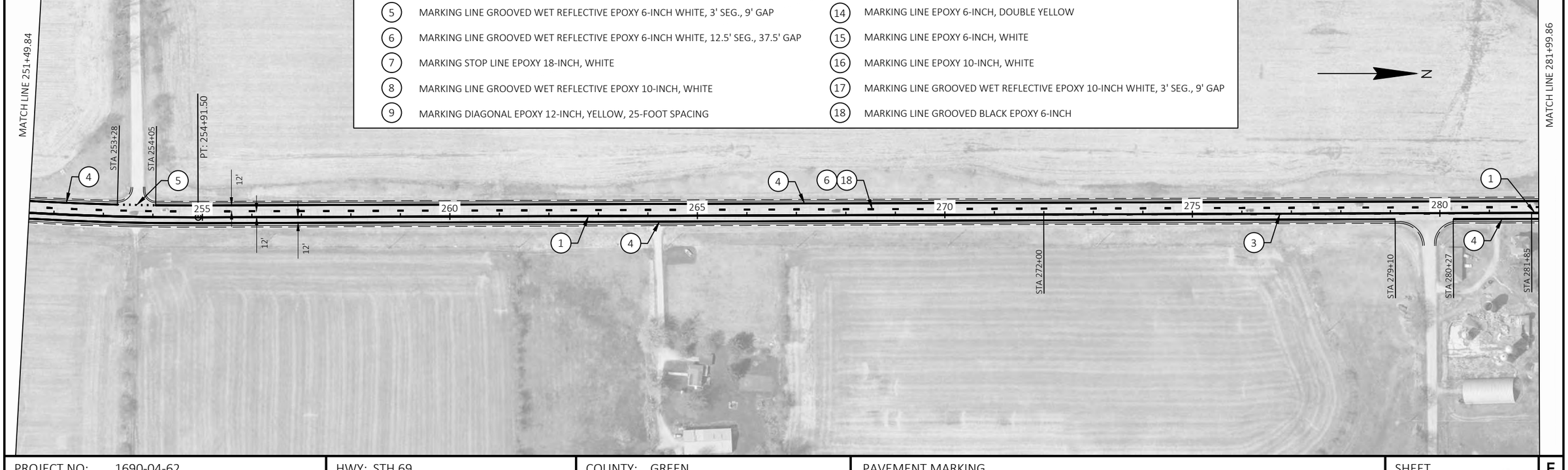
FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_024501_PM.DWG
LAYOUT NAME - 2 PM

PLOT DATE : 7/21/2025 1:49 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

2





MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP
7. MARKING STOP LINE EPOXY 18-INCH, WHITE
8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9. MARKING DIAGONAL EPOXY 12-INCH, YELLOW, 25-FOOT SPACING
10. MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
11. MARKING WORD EPOXY, ONLY
12. MARKING ARROW EPOXY, TYPE 2
13. MARKING ARROW EPOXY, TYPE 3
14. MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
15. MARKING LINE EPOXY 6-INCH, WHITE
16. MARKING LINE EPOXY 10-INCH, WHITE
17. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
18. MARKING LINE GROOVED BLACK EPOXY 6-INCH

2

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 43	E

2

MATCH LINE 281+99.86

MATCH LINE 312+49.86

2

N

285 290 295 300 305 310

4 6 18 4 1 12' 12' 12' 3 4

STA 297+32

STA 305+99

HARPER ROAD

STA 307+04

MARKING LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW	10	MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP	11	MARKING WORD EPOXY, ONLY
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE	12	MARKING ARROW EPOXY, TYPE 2
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE	13	MARKING ARROW EPOXY, TYPE 3
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP	14	MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP	15	MARKING LINE EPOXY 6-INCH, WHITE
7	MARKING STOP LINE EPOXY 18-INCH, WHITE	16	MARKING LINE EPOXY 10-INCH, WHITE
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE	17	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
9	MARKING DIAGONAL EPOXY 12-INCH, YELLOW, 25-FOOT SPACING	18	MARKING LINE GROOVED BLACK EPOXY 6-INCH

MATCH LINE 312+49.86

MATCH LINE 342+99.86

N

STA 320+47 STA 322+70 STA 326+28 STA 327+44 PI: 332+99.49 STA 338+89 STA 339+92

12' 4 6 18 315 320 325 2 330 12' 335 4 340 4

12' 12' 4 3 12' 3

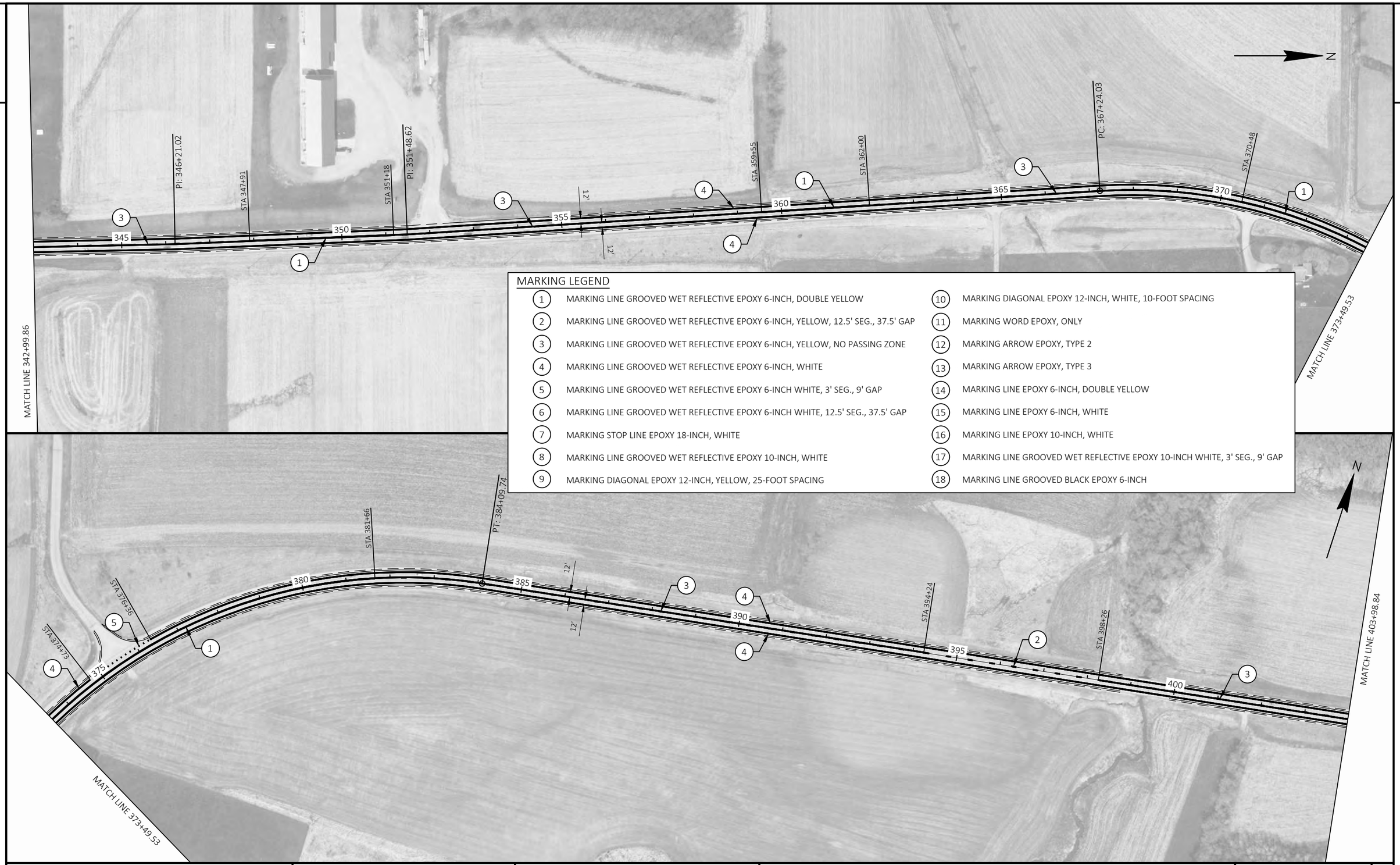
STA 327+88 STA 337+47

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 44 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_024501_PM.DWG
LAYOUT NAME - 4 PM

PLOT DATE : 7/21/2025 1:50 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP
7. MARKING STOP LINE EPOXY 18-INCH, WHITE
8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9. MARKING DIAGONAL EPOXY 12-INCH, YELLOW, 25-FOOT SPACING
10. MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
11. MARKING WORD EPOXY, ONLY
12. MARKING ARROW EPOXY, TYPE 2
13. MARKING ARROW EPOXY, TYPE 3
14. MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
15. MARKING LINE EPOXY 6-INCH, WHITE
16. MARKING LINE EPOXY 10-INCH, WHITE
17. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
18. MARKING LINE GROOVED BLACK EPOXY 6-INCH

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 45	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_024501_PM.DWG
LAYOUT NAME - 5 PM
PLOT DATE : 7/21/2025 1:50 PM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

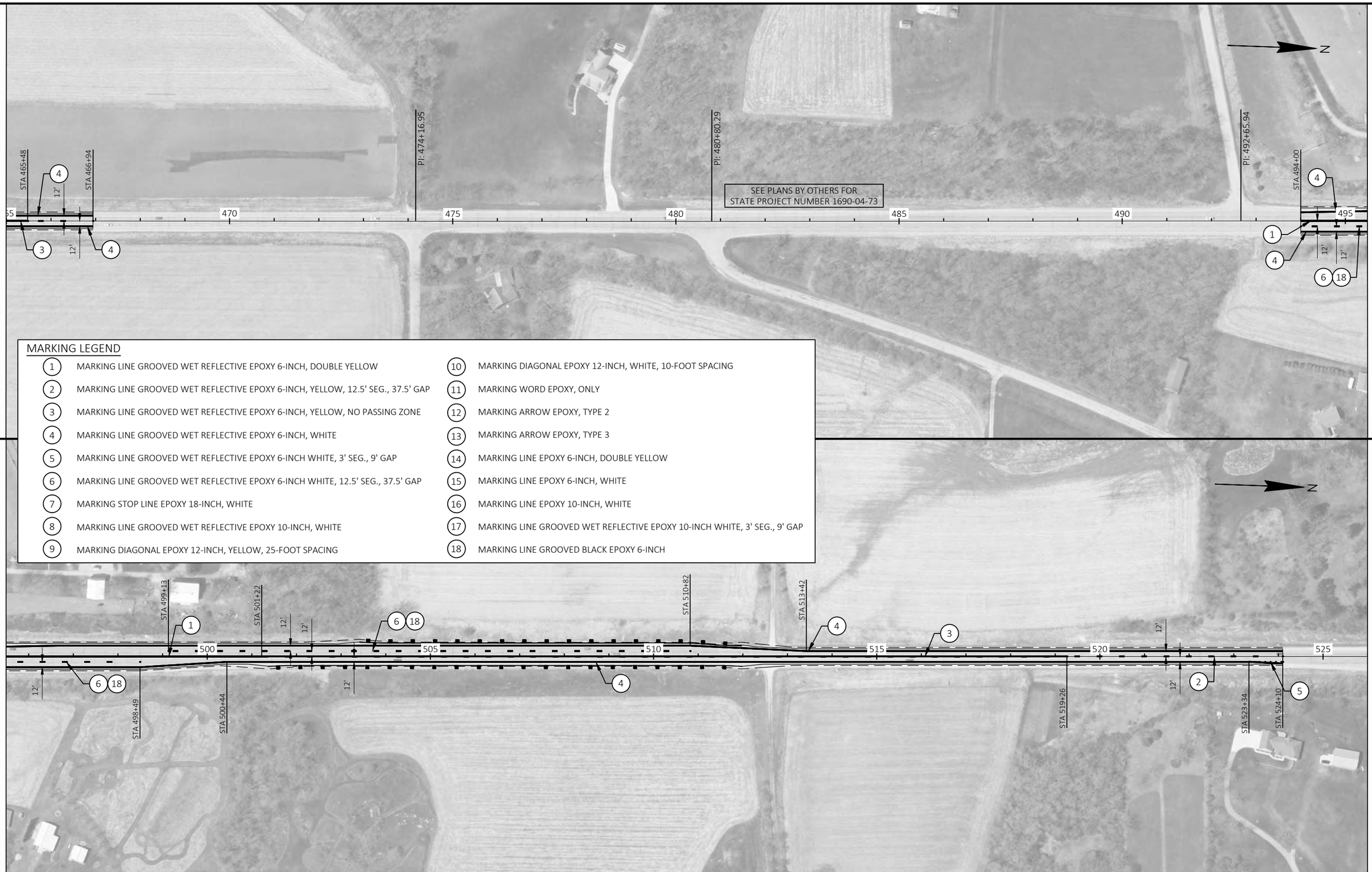
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MARKING LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW	10	MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP	11	MARKING WORD EPOXY, ONLY
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE	12	MARKING ARROW EPOXY, TYPE 2
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE	13	MARKING ARROW EPOXY, TYPE 3
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP	14	MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP	15	MARKING LINE EPOXY 6-INCH, WHITE
7	MARKING STOP LINE EPOXY 18-INCH, WHITE	16	MARKING LINE EPOXY 10-INCH, WHITE
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE	17	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
9	MARKING DIAGONAL EPOXY 12-INCH, YELLOW, 25-FOOT SPACING	18	MARKING LINE GROOVED BLACK EPOXY 6-INCH

MATCH LINE 464+99.38



MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP
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8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9. MARKING DIAGONAL EPOXY 12-INCH, YELLOW, 25-FOOT SPACING
10. MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
11. MARKING WORD EPOXY, ONLY
12. MARKING ARROW EPOXY, TYPE 2
13. MARKING ARROW EPOXY, TYPE 3
14. MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
15. MARKING LINE EPOXY 6-INCH, WHITE
16. MARKING LINE EPOXY 10-INCH, WHITE
17. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
18. MARKING LINE GROOVED BLACK EPOXY 6-INCH

MATCH LINE 495+49.38

MATCH LINE 525+99.38

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 47	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_024501_PM.DWG
LAYOUT NAME - 7 PM
PLOT DATE : 7/21/2025 1:51 PM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

2

MATCH LINE 525+99.38

PI: 529+84.36

SEE PLANS BY OTHERS FOR
STATE PROJECT NUMBER 1690-04-73

530 535 540 545

PI: 542+42.37

PC: 545+76.18

N

MATCH LINE 556+49.67

WASHINGTON ROAD

STA 546+63 STA 548+24 STA 548+90 STA 548+90 STA 550+36 STA 550+37 STA 550+69 STA 551+27 STA 551+39 STA 553+33

550 555

STA 555+90 STA 554+28 STA 554+38 STA 555+10 STA 555+10 STA 556+00 STA 553+50

MARKING LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP
7	MARKING STOP LINE EPOXY 18-INCH, WHITE
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
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10	MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
11	MARKING WORD EPOXY, ONLY
12	MARKING ARROW EPOXY, TYPE 2
13	MARKING ARROW EPOXY, TYPE 3
14	MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
15	MARKING LINE EPOXY 6-INCH, WHITE
16	MARKING LINE EPOXY 10-INCH, WHITE
17	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
18	MARKING LINE GROOVED BLACK EPOXY 6-INCH

MATCH LINE 556+49.67

STA 558+00 STA 559+37 STA 561+39 PT: 562+65.33 STA 570+51

560 565 570 575 580 585

STA 560+01 STA 562+55 STA 564+97 PC: 571+66.01

MATCH LINE 586+99.40

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 48	E

2

2

MATCH LINE 586+99.40

MATCH LINE 617+49.33

MATCH LINE 617+49.33

MATCH LINE 647+99.33

PT: 597+52.98

STA 621+30

STA 625+73

STA 627+75

STA 627+80

STA 628+76

STA 629+04

STA 629+90

STA 630+24

STA 633+68

590 595 600 605 610 615

620 625 630 635 640 645

12'

14'

N

MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP
7. MARKING STOP LINE EPOXY 18-INCH, WHITE
8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9. MARKING DIAGONAL EPOXY 12-INCH, YELLOW, 25-FOOT SPACING
10. MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
11. MARKING WORD EPOXY, ONLY
12. MARKING ARROW EPOXY, TYPE 2
13. MARKING ARROW EPOXY, TYPE 3
14. MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
15. MARKING LINE EPOXY 6-INCH, WHITE
16. MARKING LINE EPOXY 10-INCH, WHITE
17. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
18. MARKING LINE GROOVED BLACK EPOXY 6-INCH

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 49	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_024501_PM.DWG
LAYOUT NAME - 9 PM

PLOT DATE : 7/21/2025 1:51 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

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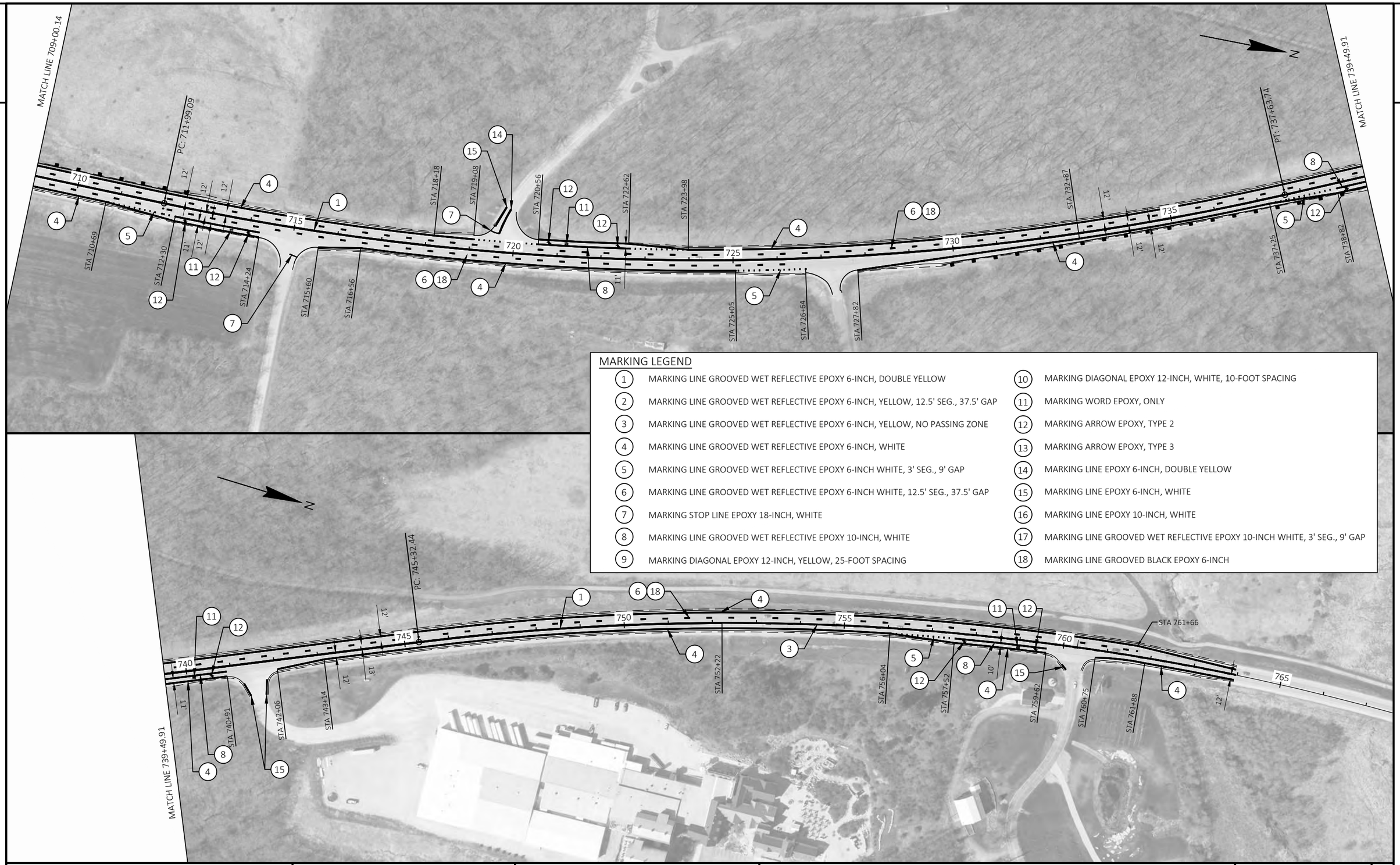
MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP
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8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
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10. MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
11. MARKING WORD EPOXY, ONLY
12. MARKING ARROW EPOXY, TYPE 2
13. MARKING ARROW EPOXY, TYPE 3
14. MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
15. MARKING LINE EPOXY 6-INCH, WHITE
16. MARKING LINE EPOXY 10-INCH, WHITE
17. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
18. MARKING LINE GROOVED BLACK EPOXY 6-INCH

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 50	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_024501_PM.DWG
LAYOUT NAME - 10 PM
PLOT DATE : 7/21/2025 1:51 PM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

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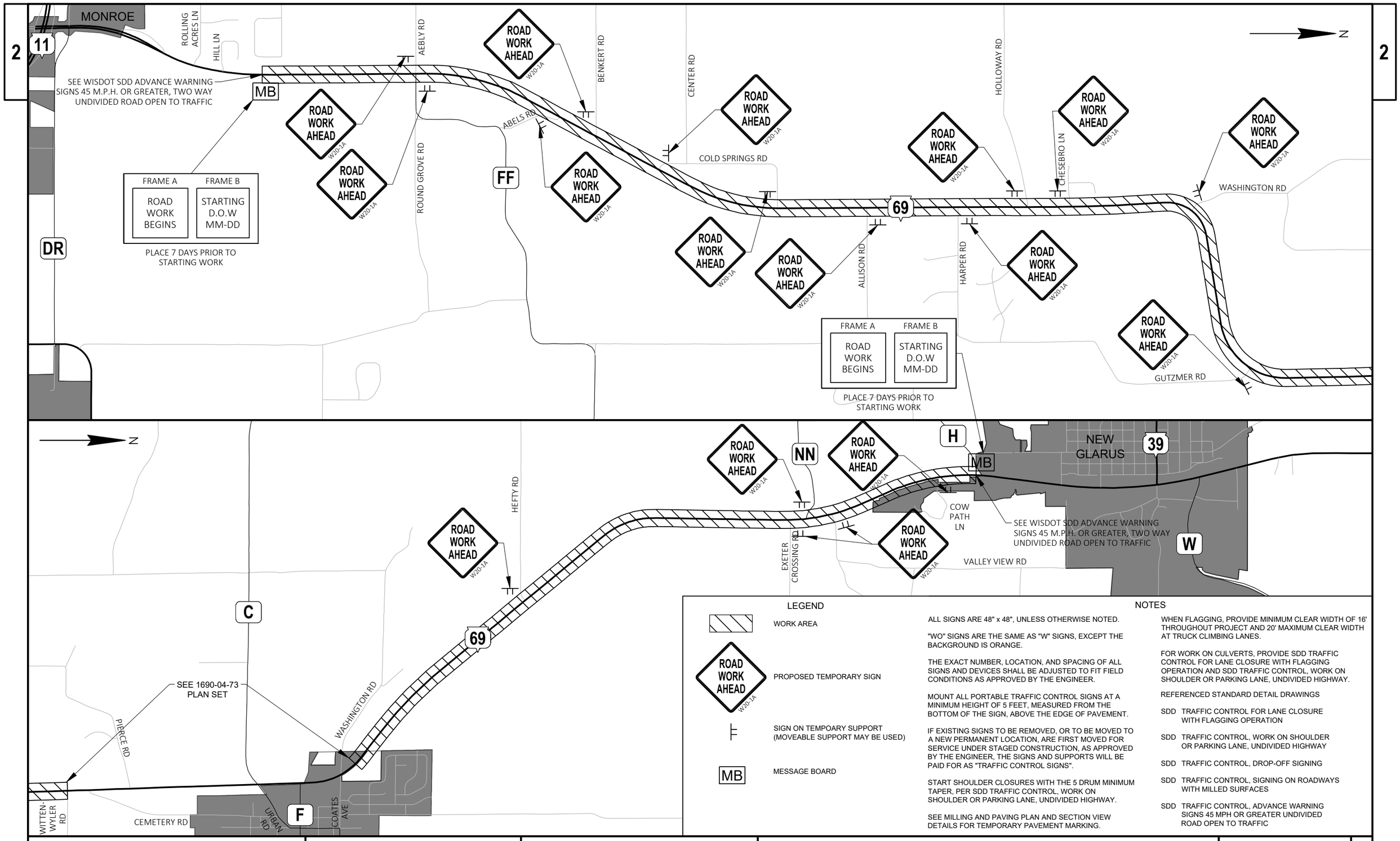


MARKING LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, DOUBLE YELLOW
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, NO PASSING ZONE
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 3' SEG., 9' GAP
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WHITE, 12.5' SEG., 37.5' GAP
7. MARKING STOP LINE EPOXY 18-INCH, WHITE
8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
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10. MARKING DIAGONAL EPOXY 12-INCH, WHITE, 10-FOOT SPACING
11. MARKING WORD EPOXY, ONLY
12. MARKING ARROW EPOXY, TYPE 2
13. MARKING ARROW EPOXY, TYPE 3
14. MARKING LINE EPOXY 6-INCH, DOUBLE YELLOW
15. MARKING LINE EPOXY 6-INCH, WHITE
16. MARKING LINE EPOXY 10-INCH, WHITE
17. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH WHITE, 3' SEG., 9' GAP
18. MARKING LINE GROOVED BLACK EPOXY 6-INCH

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 51	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_024501_PM.DWG
LAYOUT NAME - 11 PM
PLOT DATE : 7/21/2025 1:52 PM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44



LEGEND

- WORK AREA
- PROPOSED TEMPORARY SIGN
- SIGN ON TEMPOARY SUPPORT (MOVEABLE SUPPORT MAY BE USED)
- MB — MESSAGE BOARD

NOTES

ALL SIGNS ARE 48" x 48", UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

IF EXISTING SIGNS TO BE REMOVED, OR TO BE MOVED TO A NEW PERMANENT LOCATION, ARE FIRST MOVED FOR SERVICE UNDER STAGED CONSTRUCTION, AS APPROVED BY THE ENGINEER, THE SIGNS AND SUPPORTS WILL BE PAID FOR AS "TRAFFIC CONTROL SIGNS".

START SHOULDER CLOSURES WITH THE 5 DRUM MINIMUM TAPER, PER SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY.

SEE MILLING AND PAVING PLAN AND SECTION VIEW DETAILS FOR TEMPORARY PAVEMENT MARKING.

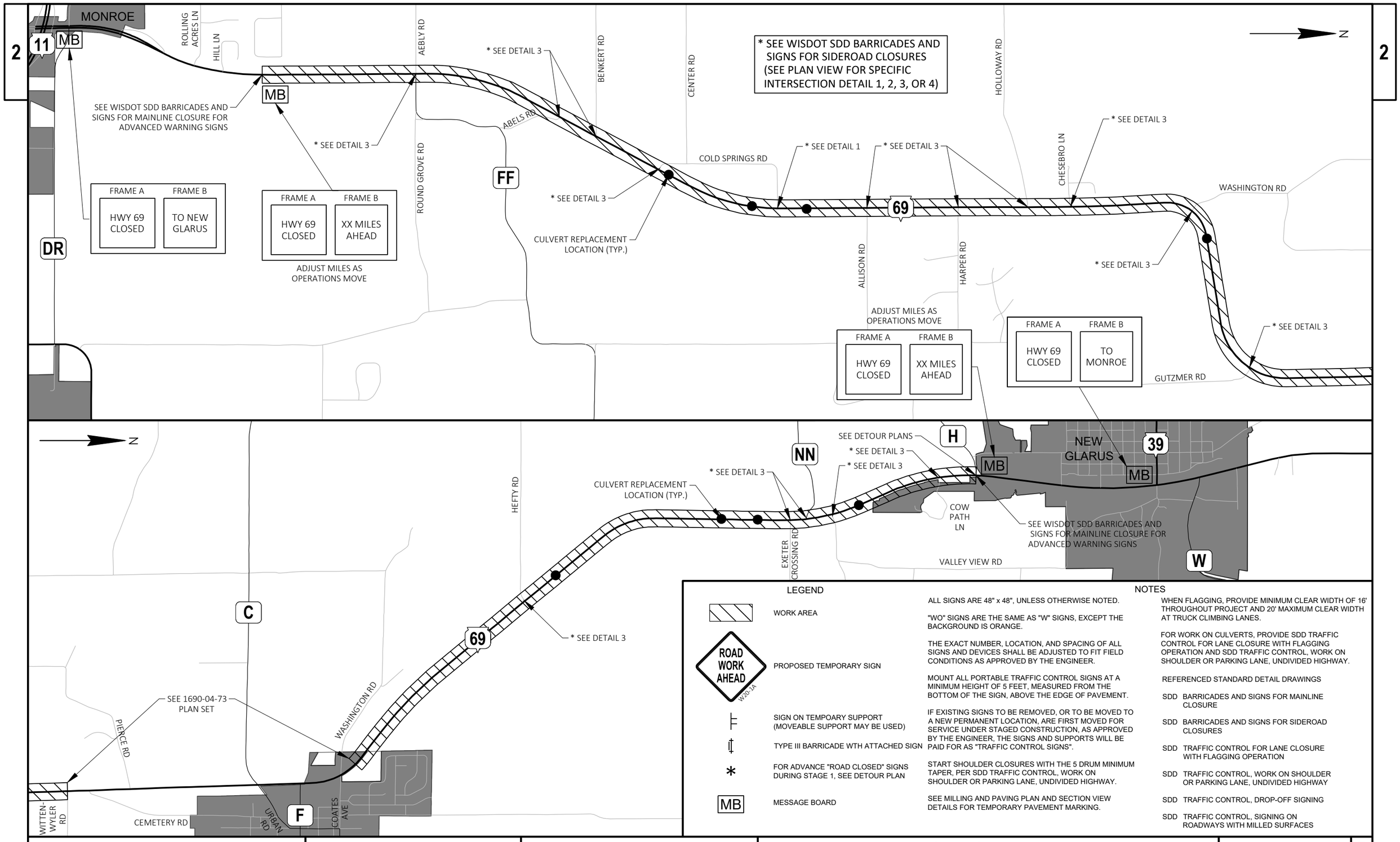
WHEN FLAGGING, PROVIDE MINIMUM CLEAR WIDTH OF 16' THROUGHOUT PROJECT AND 20' MAXIMUM CLEAR WIDTH AT TRUCK CLIMBING LANES.

FOR WORK ON CULVERTS, PROVIDE SDD TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION AND SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY.

REFERENCED STANDARD DETAIL DRAWINGS

- SDD TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
- SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY
- SDD TRAFFIC CONTROL, DROP-OFF SIGNING
- SDD TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
- SDD TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER UNDIVIDED ROAD OPEN TO TRAFFIC

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - WORK ZONE OVERVIEW (STAGES 1, 2, & 4)	SHEET 52	E



LEGEND

- WORK AREA
- PROPOSED TEMPORARY SIGN (ROAD WORK AHEAD, W20-1A)
- SIGN ON TEMPOARY SUPPORT (MOVEABLE SUPPORT MAY BE USED)
- TYPE III BARRICADE WTH ATTACHED SIGN
- * FOR ADVANCE "ROAD CLOSED" SIGNS DURING STAGE 1, SEE DETOUR PLAN
- MB MESSAGE BOARD

NOTES

ALL SIGNS ARE 48" x 48", UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

IF EXISTING SIGNS TO BE REMOVED, OR TO BE MOVED TO A NEW PERMANENT LOCATION, ARE FIRST MOVED FOR SERVICE UNDER STAGED CONSTRUCTION, AS APPROVED BY THE ENGINEER, THE SIGNS AND SUPPORTS WILL BE PAID FOR AS "TRAFFIC CONTROL SIGNS".

START SHOULDER CLOSURES WITH THE 5 DRUM MINIMUM TAPER, PER SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY.

SEE MILLING AND PAVING PLAN AND SECTION VIEW DETAILS FOR TEMPORARY PAVEMENT MARKING.

WHEN FLAGGING, PROVIDE MINIMUM CLEAR WIDTH OF 16' THROUGHOUT PROJECT AND 20' MAXIMUM CLEAR WIDTH AT TRUCK CLIMBING LANES.

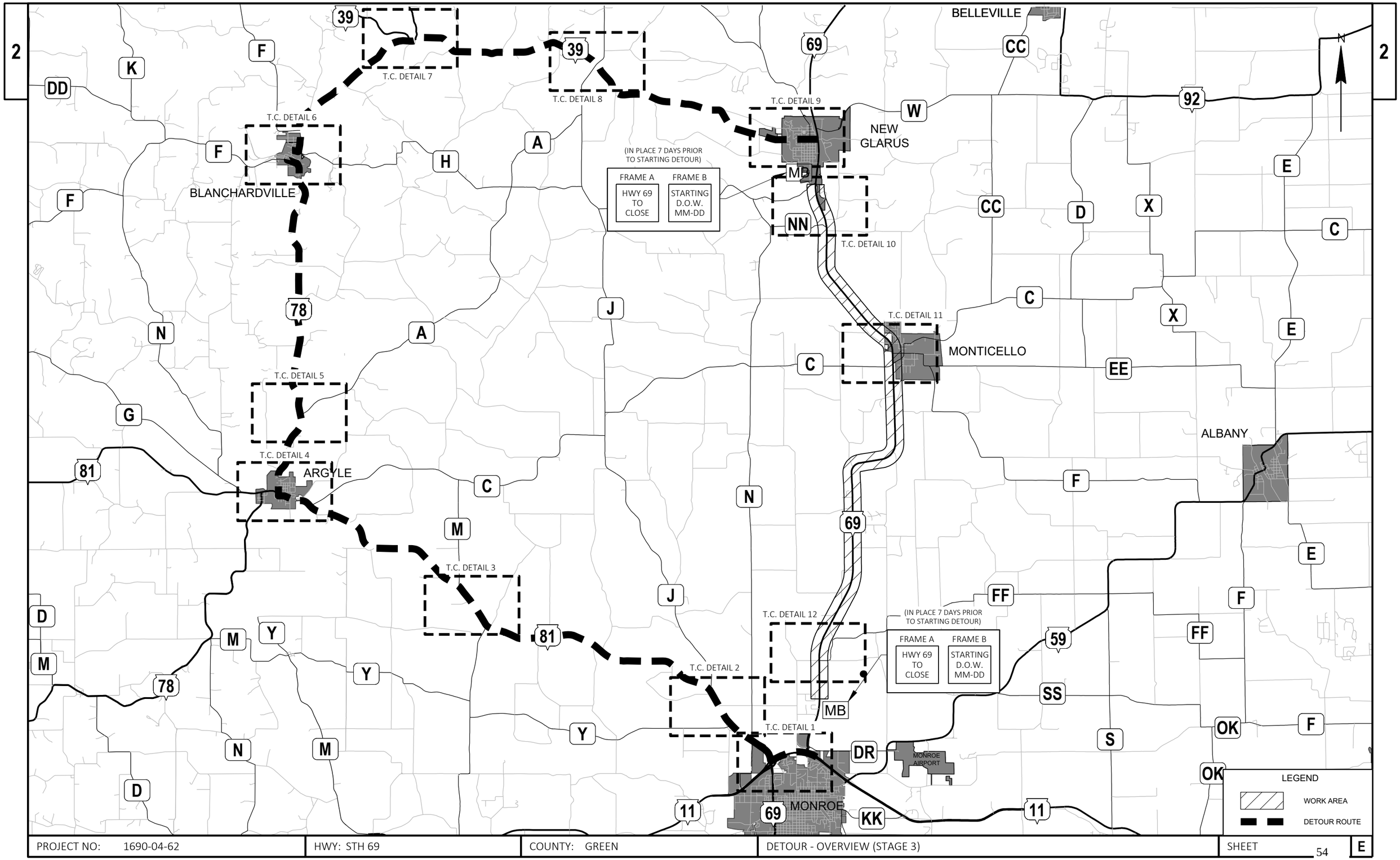
FOR WORK ON CULVERTS, PROVIDE SDD TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION AND SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY.

REFERENCED STANDARD DETAIL DRAWINGS

- SDD BARRICADES AND SIGNS FOR MAINLINE CLOSURE
- SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
- SDD TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
- SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY
- SDD TRAFFIC CONTROL, DROP-OFF SIGNING
- SDD TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - SIDE ROADS OVERVIEW (STAGE 3)	SHEET 53	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_027001_DT OVERVIEW.DWG
LAYOUT NAME - 19 Detour Side Roads Overview (Stage 3)
PLOT DATE : 7/21/2025 2:05 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:2500 FT
WISDOT/CADDS SHEET 42

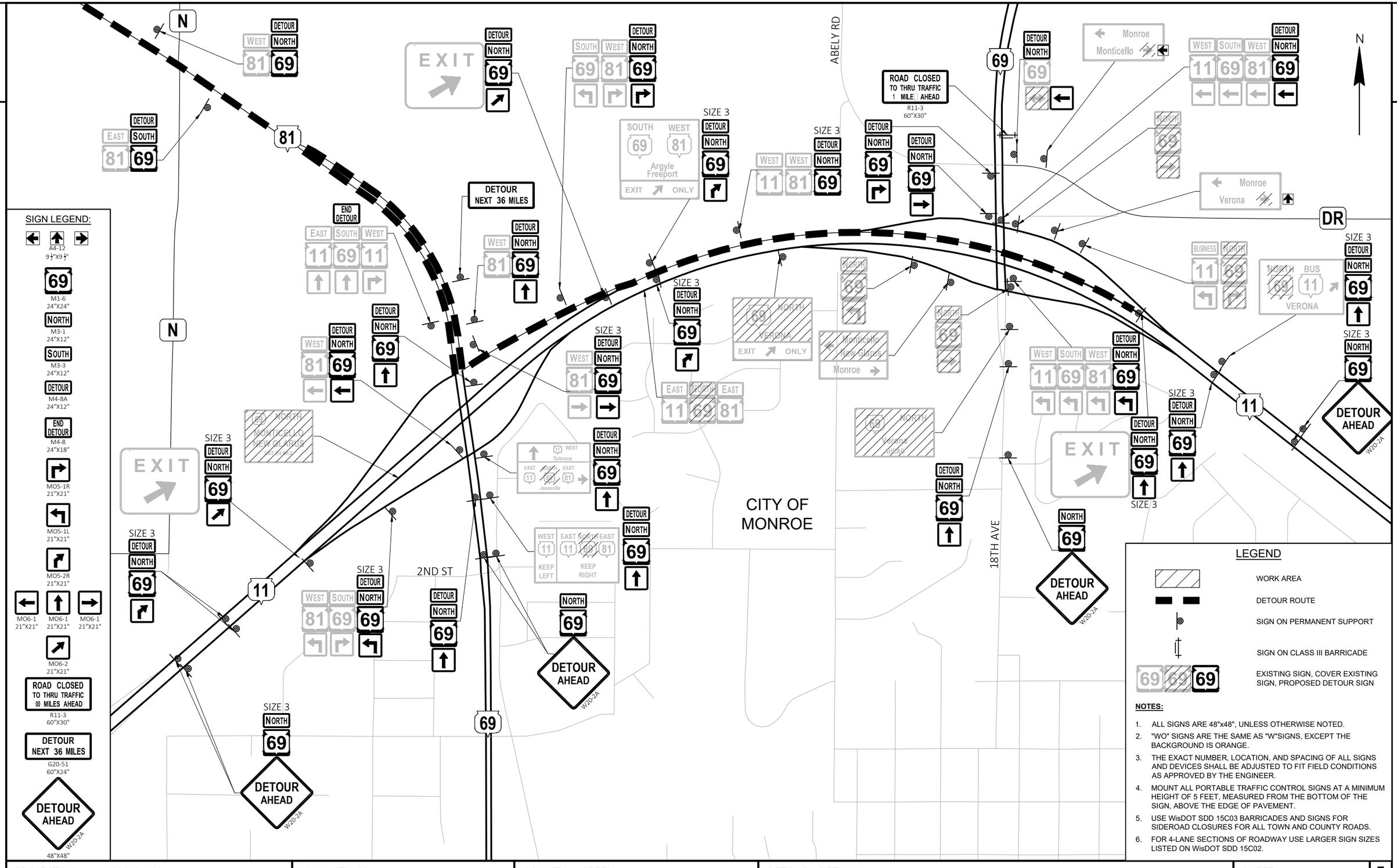


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - OVERVIEW (STAGE 3)	SHEET 54 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_027001_DT.DWG
LAYOUT NAME - 20 Detour - Overview

PLOT DATE : 7/21/2025 2:05 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:10000 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 1	SHEET 55	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_027001_DT.DWG
LAYOUT NAME - 21 Detour - DETAIL 1

PLOT DATE : 7/21/2025 2:05 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:700 FT

2

2

N

J

DETOUR
WEST NORTH
81 69

DETOUR
EAST SOUTH
81 69

VOEGLI RD

ILIFF RD

81

N

JOY DEL RD

DETOUR
WEST NORTH
81 69

DETOUR
EAST SOUTH
81 69

JOY DEL RD

Y

SIGN LEGEND:

69
M1-6
24"X24"

NORTH
M3-1
24"X12"

SOUTH
M3-3
24"X12"

DETOUR
M4-8
24"X12"

LEGEND

WORK AREA

DETOUR ROUTE

SIGN ON PERMANENT SUPPORT

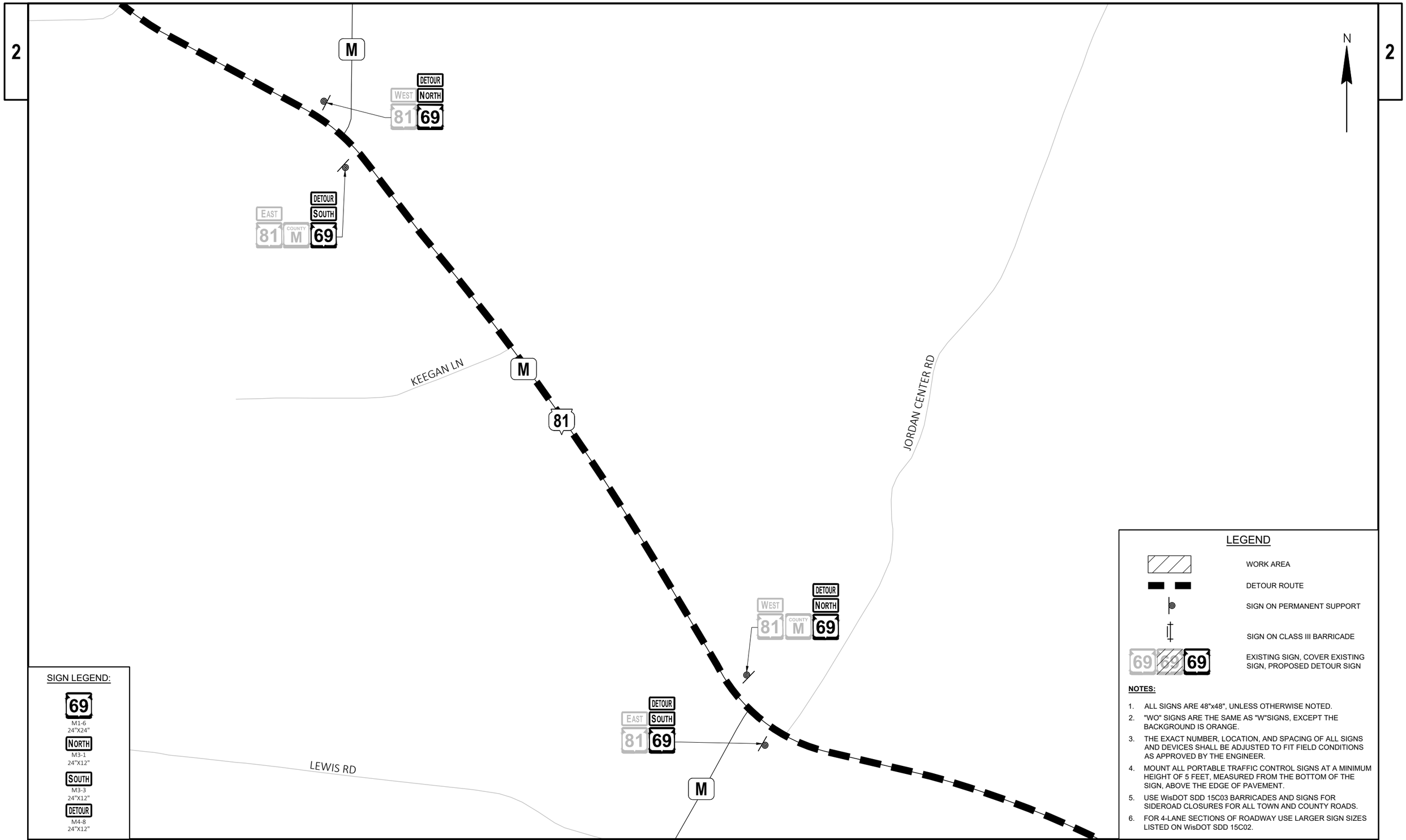
SIGN ON CLASS III BARRICADE

69 69 69 EXISTING SIGN, COVER EXISTING SIGN, PROPOSED DETOUR SIGN

NOTES:

1. ALL SIGNS ARE 48"x48", UNLESS OTHERWISE NOTED.
2. "WO" SIGNS ARE THE SAME AS "W"SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
3. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
4. MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.
5. USE WisDOT SDD 15C03 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR ALL TOWN AND COUNTY ROADS.
6. FOR 4-LANE SECTIONS OF ROADWAY USE LARGER SIGN SIZES LISTED ON WisDOT SDD 15C02.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 2	SHEET 56	E



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 3	SHEET 57	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_027001_DT.DWG
LAYOUT NAME - 23 Detour - DETAIL 3

PLOT DATE : 7/21/2025 2:05 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:700 FT

2

2

N

VALLEY RD

HILLCREST RD

PARK AVE

BROAD ST

GRANT ST

VILLAGE OF ARGYLE

E. WILWAUKEE ST

W. PUDDLEDOCK RD

GALENA ST

OAK ST

OLD WISCONSIN 81

G

M

C

81

78

69

DETOUR AHEAD W20-2A

SIGN LEGEND:

69 M1-6 24"X24"

NORTH M3-1 24"X12"

SOUTH M3-3 24"X12"

DETOUR M4-8 24"X12"

MO5-1L 21"X21"

MO5-1R 21"X21"

MO6-1 21"X21" MO6-1 21"X21" MO6-1 21"X21"

DETOUR AHEAD W20-2A 48"X48"

LEGEND

WORK AREA

DETOUR ROUTE

SIGN ON PERMANENT SUPPORT

SIGN ON CLASS III BARRICADE

EXISTING SIGN, COVER EXISTING SIGN, PROPOSED DETOUR SIGN

NOTES:

1. ALL SIGNS ARE 48"x48", UNLESS OTHERWISE NOTED.
2. "WO" SIGNS ARE THE SAME AS "W"SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
3. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
4. MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.
5. USE WisDOT SDD 15C03 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR ALL TOWN AND COUNTY ROADS.
6. FOR 4-LANE SECTIONS OF ROADWAY USE LARGER SIGN SIZES LISTED ON WisDOT SDD 15C02.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 4	SHEET 58	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_027001_DT.DWG
LAYOUT NAME - 24 Detour - DETAIL 4

PLOT DATE : 7/21/2025 2:06 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:700 FT

2

2

N

VALLEY RD

78

A

DETOUR
NORTH
NORTH
78 69

DETOUR
SOUTH
SOUTH
78 69

WOODLAND CEMETERY LN

SIGN LEGEND:

69
M1-6
24"X24"

NORTH
M3-1
24"X12"

SOUTH
M3-3
24"X12"

DETOUR
M4-8
24"X12"

LEGEND

WORK AREA

DETOUR ROUTE

SIGN ON PERMANENT SUPPORT

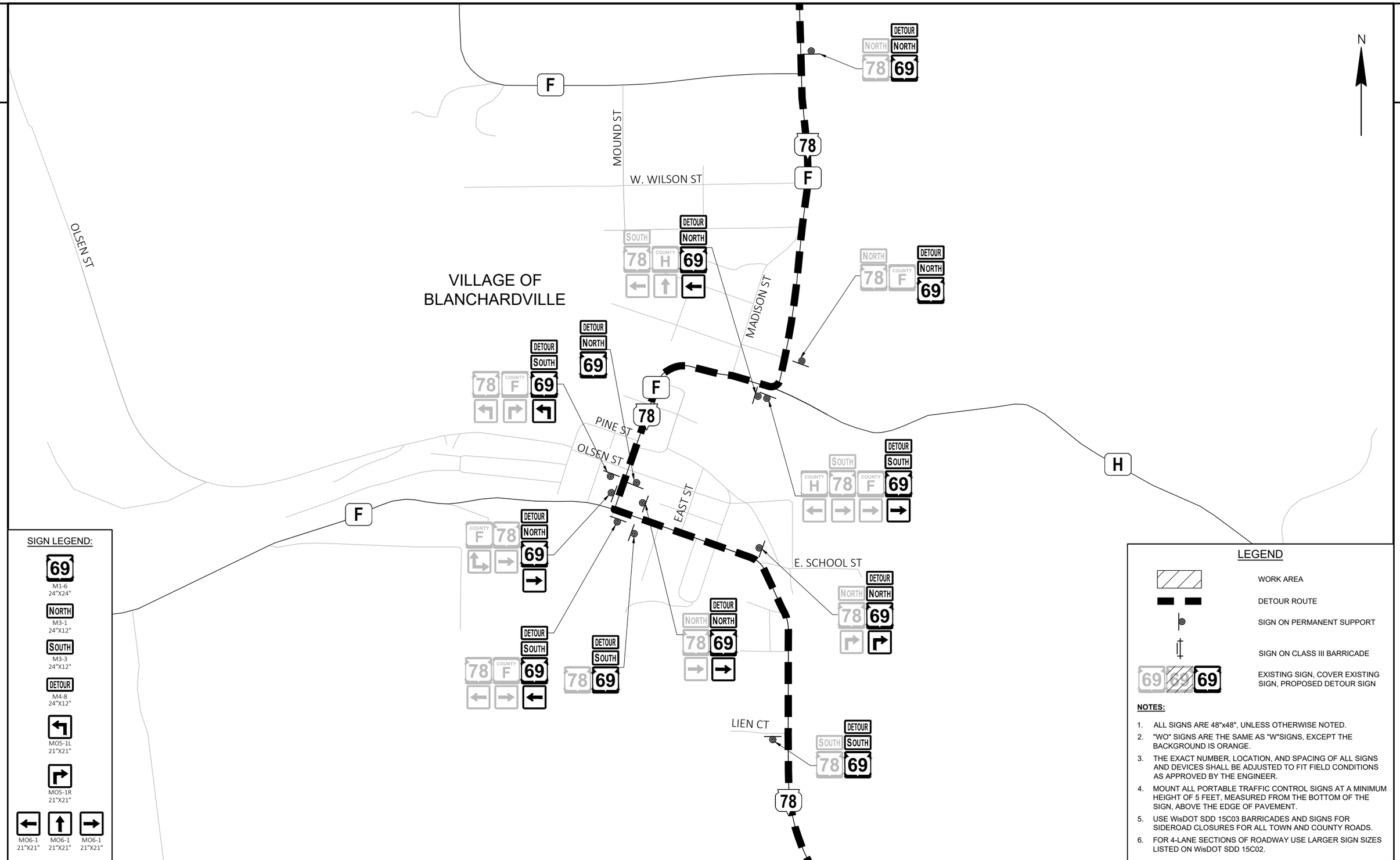
SIGN ON CLASS III BARRICADE

69 69 69 EXISTING SIGN, COVER EXISTING SIGN, PROPOSED DETOUR SIGN

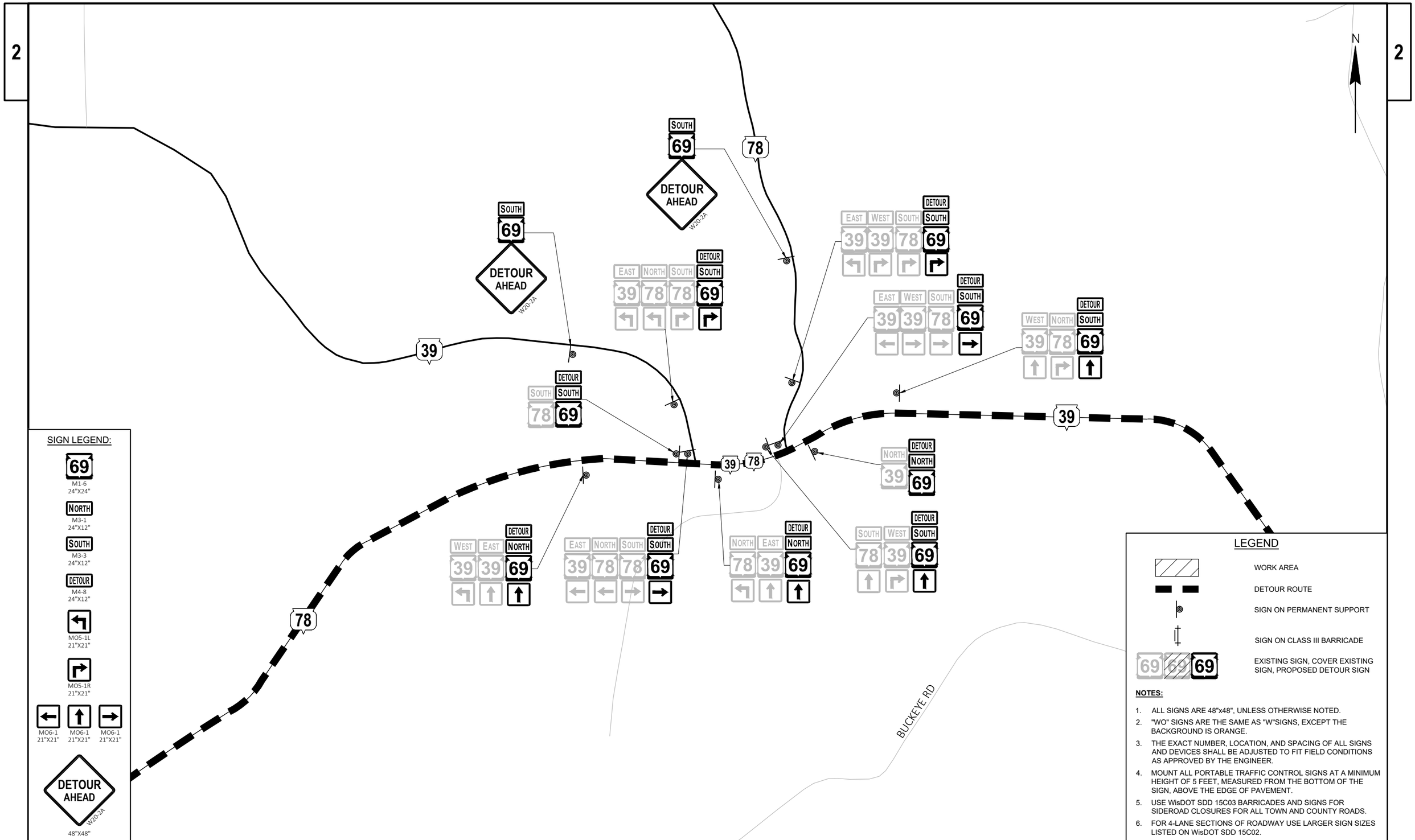
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5. USE WisDOT SDD 15C03 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR ALL TOWN AND COUNTY ROADS.
6. FOR 4-LANE SECTIONS OF ROADWAY USE LARGER SIGN SIZES LISTED ON WisDOT SDD 15C02.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 5	SHEET 59	E



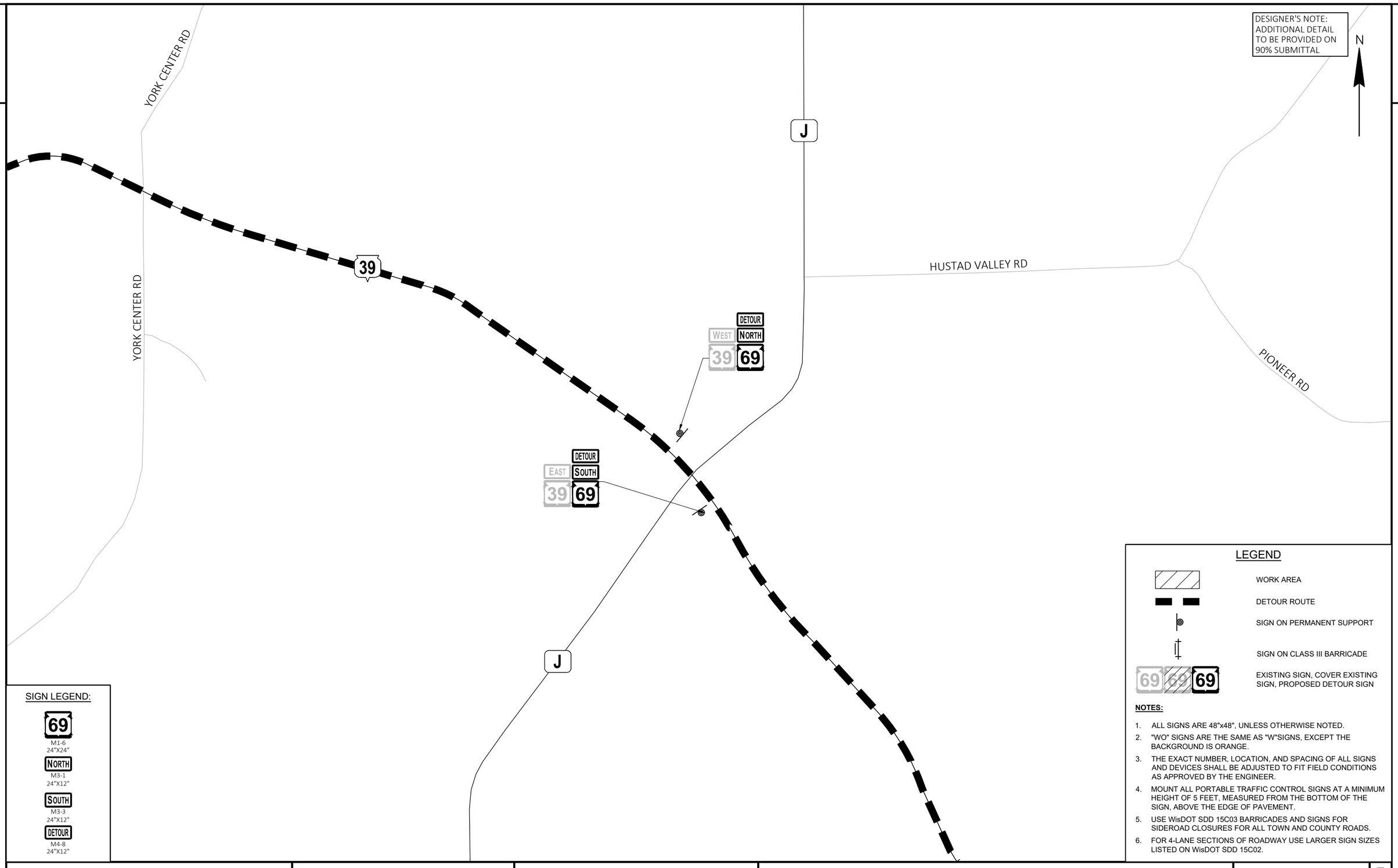
PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 6	SHEET 60	E



NOTES:

1. ALL SIGNS ARE 48"x48", UNLESS OTHERWISE NOTED.
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3. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
4. MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.
5. USE WisDOT SDD 15C03 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR ALL TOWN AND COUNTY ROADS.
6. FOR 4-LANE SECTIONS OF ROADWAY USE LARGER SIGN SIZES LISTED ON WisDOT SDD 15C02.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 7	SHEET 61	E



SIGN LEGEND:

69
M1-6
24"X24"

NORTH
M3-1
24"X12"

SOUTH
M3-3
24"X12"

DETOUR
M4-8
24"X12"

LEGEND

- WORK AREA
- DETOUR ROUTE
- SIGN ON PERMANENT SUPPORT
- SIGN ON CLASS III BARRICADE
- 69 69 69 — EXISTING SIGN, COVER EXISTING SIGN, PROPOSED DETOUR SIGN

NOTES:

1. ALL SIGNS ARE 48"x48", UNLESS OTHERWISE NOTED.
2. "WO" SIGNS ARE THE SAME AS "W"SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
3. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
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5. USE WisDOT SDD 15C03 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR ALL TOWN AND COUNTY ROADS.
6. FOR 4-LANE SECTIONS OF ROADWAY USE LARGER SIGN SIZES LISTED ON WisDOT SDD 15C02.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 8	SHEET 62	E

2

2

N

O

SOUTH 69

DETOUR AHEAD

W20-2A

69

Monroe
New Glarus

WEST 39 DETOUR SOUTH 69

SPEED LIMIT 25

DETOUR SOUTH WEST 69 39

W

WEST DETOUR SOUTH 39 69

DETOUR SOUTH WEST 39 69

RAILROAD ST

DURST RD

DETOUR NEXT 36 MILES

39

6TH AVE

KUBLY RD

END DETOUR NORTH 69

3RD ST

2ND ST

1ST ST

RAILROAD ST

ROAD CLOSED TO THRU TRAFFIC 1 MILE AHEAD
R11-3
60"X30"

VILLAGE OF NEW GLARUS

Belleville
Manor Monticello

NORTH END SOUTH 69 39 69

DETOUR SOUTH WEST NORTH 39 69 69

ELMER RD

14TH AVE

SIGN LEGEND:

A4-12
9 1/2"X9 1/2"

69
M1-6
24"X24"

NORTH
M3-1
24"X12"

SOUTH
M3-3
24"X12"

DETOUR
M4-8A
24"X12"

END DETOUR
M4-8
24"X18"

MO5-1R
21"X21"

MO5-1L
21"X21"

MO6-1
21"X21"

MO6-1
21"X21"

ROAD CLOSED TO THRU TRAFFIC 00 MILES AHEAD
R11-3
60"X30"

DETOUR NEXT 36 MILES
G20-51
60"X24"

DETOUR AHEAD
W20-2A
36"X36"

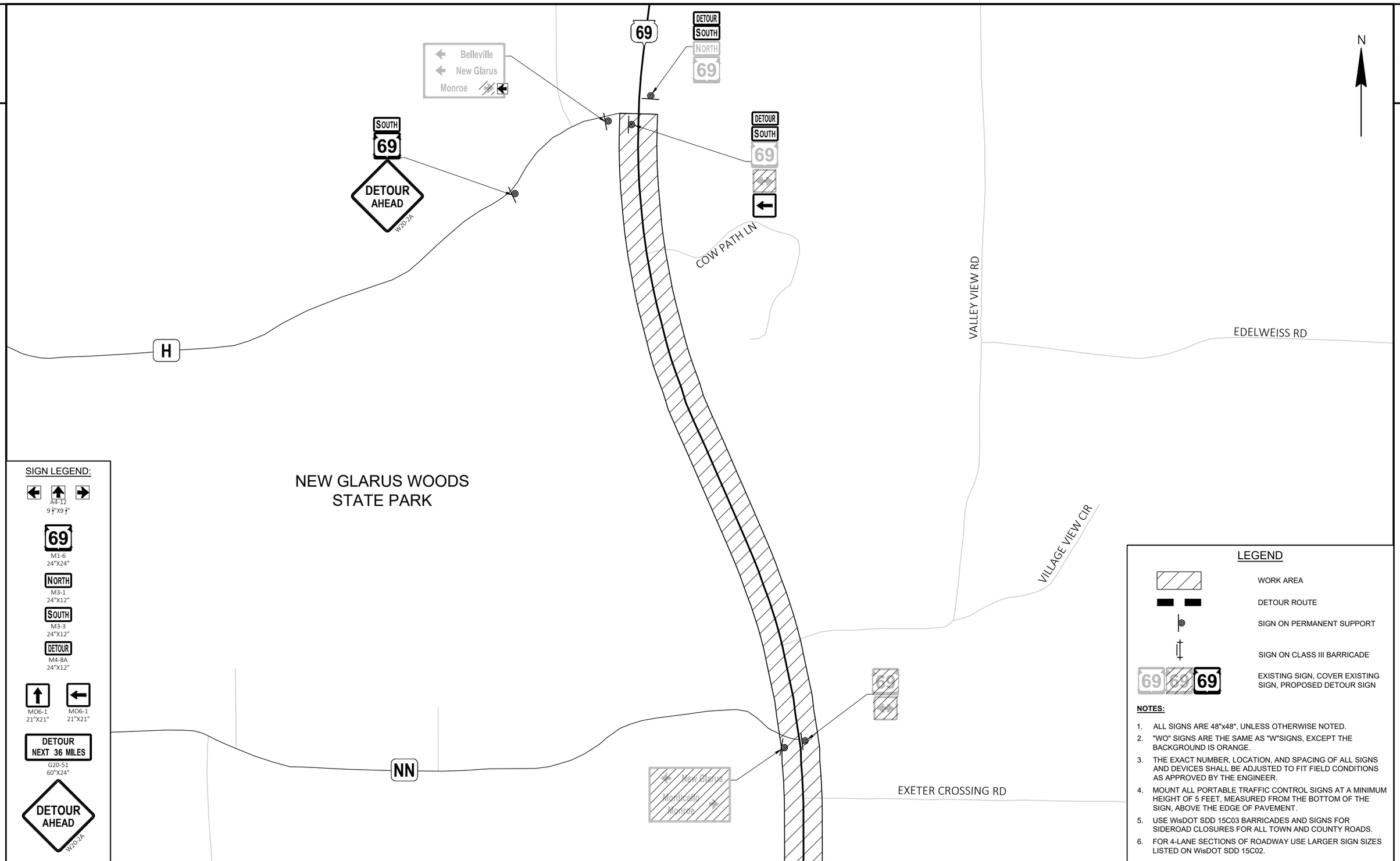
LEGEND

- WORK AREA
- DETOUR ROUTE
- SIGN ON PERMANENT SUPPORT
- SIGN ON CLASS III BARRICADE
- EXISTING SIGN, COVER EXISTING SIGN, PROPOSED DETOUR SIGN

NOTES:

1. ALL SIGNS ARE 48"x48", UNLESS OTHERWISE NOTED.
2. "WO" SIGNS ARE THE SAME AS "W"SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
3. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
4. MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.
5. USE WisDOT SDD 15C03 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR ALL TOWN AND COUNTY ROADS.
6. FOR 4-LANE SECTIONS OF ROADWAY USE LARGER SIGN SIZES LISTED ON WisDOT SDD 15C02.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 9	SHEET 63	E



SIGN LEGEND:

A4-12
9 1/2"X9 1/2"

69
M1-6
24"X24"

NORTH
M3-1
24"X12"

SOUTH
M3-3
24"X12"

DETOUR
M4-8A
24"X12"

MO6-1
21"X21"

MO6-1
21"X21"

DETOUR
NEXT 36 MILES
G20-51
60"X24"

DETOUR
AHEAD
W20-2A

LEGEND

- WORK AREA
- DETOUR ROUTE
- SIGN ON PERMANENT SUPPORT
- SIGN ON CLASS III BARRICADE
- EXISTING SIGN, COVER EXISTING SIGN, PROPOSED DETOUR SIGN

NOTES:

1. ALL SIGNS ARE 48"x48", UNLESS OTHERWISE NOTED.
2. "WO" SIGNS ARE THE SAME AS "W"SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
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5. USE WisDOT SDD 15C03 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR ALL TOWN AND COUNTY ROADS.
6. FOR 4-LANE SECTIONS OF ROADWAY USE LARGER SIGN SIZES LISTED ON WisDOT SDD 15C02.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 10	SHEET 64	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_027001_DT.DWG
LAYOUT NAME - 30 Detour - DETAIL 10

PLOT DATE : 7/21/2025 2:06 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:700 FT

2

N

69

WASHINGTON RD

N. MONROE ST

NO PARKING HERE TO

R3-50A
30"X36"

ONLY

W. COATES AVE

C

PRATT RD

Monroe
New Glarus

69

F

F

C

Monroe
New Glarus

VILLAGE OF
MONTICELLO

69

69

C

S. MONROE ST

LEGEND

- WORK AREA
- DETOUR ROUTE
- SIGN ON PERMANENT SUPPORT
- SIGN ON CLASS III BARRICADE
- 69 69 69 — EXISTING SIGN, COVER EXISTING SIGN, PROPOSED DETOUR SIGN

NOTES:

1. ALL SIGNS ARE 48"x48", UNLESS OTHERWISE NOTED.
2. "WO" SIGNS ARE THE SAME AS "W"SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
3. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
4. MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.
5. USE WisDOT SDD 15C03 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR ALL TOWN AND COUNTY ROADS.
6. FOR 4-LANE SECTIONS OF ROADWAY USE LARGER SIGN SIZES LISTED ON WisDOT SDD 15C02.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 11	SHEET 65	E

2

N

BENKETT RD

ABELS RD

69

FF

69

AEBLY RD

ROUND GROVE RD

Monroe
Monticello

AEBLY RD

LEGEND

- WORK AREA
- DETOUR ROUTE
- SIGN ON PERMANENT SUPPORT
- SIGN ON CLASS III BARRICADE
- 69 69 69 — EXISTING SIGN, COVER EXISTING SIGN, PROPOSED DETOUR SIGN

NOTES:

1. ALL SIGNS ARE 48"x48", UNLESS OTHERWISE NOTED.
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5. USE WisDOT SDD 15C03 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR ALL TOWN AND COUNTY ROADS.
6. FOR 4-LANE SECTIONS OF ROADWAY USE LARGER SIGN SIZES LISTED ON WisDOT SDD 15C02.

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	DETOUR - DETAIL 12	SHEET 66	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_027001_DT.DWG
LAYOUT NAME - 32 Detour - DETAIL 12

PLOT DATE : 7/21/2025 2:06 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1 IN:700 FT

WISDOT/CADDS SHEET 42

1690-04-62

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	10.000	10.000
0006	203.0100	Removing Small Pipe Culverts	EACH	8.000	8.000
0012	204.0110	Removing Asphaltic Surface	SY	579.000	579.000
0014	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,660.000	1,660.000
0016	204.0120	Removing Asphaltic Surface Milling	SY	243,450.000	243,450.000
0024	204.0165	Removing Guardrail	LF	8,200.000	8,200.000
0030	205.0100	Excavation Common	CY	4,186.000	4,186.000
0038	209.2500	Backfill Granular Grade 2	TON	2,000.000	2,000.000
0040	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 1690-04-62	EACH	1.000	1.000
0044	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	615.000	615.000
0046	213.0100	Finishing Roadway (project) 01. 1690-04-62	EACH	1.000	1.000
0050	305.0110	Base Aggregate Dense 3/4-Inch	TON	7,340.000	7,340.000
0052	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,910.000	2,910.000
0070	450.6224	HMA Pavement 4 MT 58-28 S	TON	32,520.000	32,520.000
0072	455.0605	Tack Coat	GAL	19,130.000	19,130.000
0074	465.0105	Asphaltic Surface	TON	4,050.000	4,050.000
0076	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	100.000	100.000
0082	465.0520	Asphaltic Rumble Strips, Shoulder	LF	110,870.000	110,870.000
0084	465.0560	Asphaltic Rumble Strips, Centerline	LF	53,360.000	53,360.000
0114	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	376.000	376.000
0116	522.0154	Culvert Pipe Reinforced Concrete Class III 54-Inch	LF	96.000	96.000
0118	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	360.000	360.000
0122	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	8.000	8.000
0124	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	6.000	6.000
0126	522.1054	Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	EACH	2.000	2.000
0158	606.0200	Riprap Medium	CY	12.000	12.000
0192	614.0010	Barrier System Grading Shaping Finishing	EACH	18.000	18.000
0196	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	2,700.000	2,700.000
0202	614.2330	MGS Guardrail 3 K	LF	7,440.000	7,440.000
0204	614.2340	MGS Guardrail 3 L	LF	225.000	225.000
0206	614.2350	MGS Guardrail Short Radius	LF	160.000	160.000
0208	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0210	614.2610	MGS Guardrail Terminal EAT	EACH	31.000	31.000
0212	614.2630	MGS Guardrail Short Radius Terminal	EACH	5.000	5.000
0214	618.0100	Maintenance and Repair of Haul Roads (project) 01. 1690-04-62	EACH	1.000	1.000
0218	619.1000	Mobilization	EACH	0.500	0.500
0222	624.0100	Water	MGAL	334.000	334.000
0224	625.0500	Salvaged Topsoil	SY	10,000.000	10,000.000
0226	627.0200	Mulching	SY	5,000.000	5,000.000
0228	628.1504	Silt Fence	LF	5,000.000	5,000.000
0230	628.1520	Silt Fence Maintenance	LF	5,000.000	5,000.000
0232	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0234	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0240	628.2023	Erosion Mat Class II Type B	SY	7,000.000	7,000.000
0248	628.7555	Culvert Pipe Checks	EACH	23.000	23.000
0252	629.0210	Fertilizer Type B	CWT	8.000	8.000
0254	630.0130	Seeding Mixture No. 30	LB	655.000	655.000
0256	630.0180	Seeding Mixture No. 80	LB	65.000	65.000
0258	630.0200	Seeding Temporary	LB	200.000	200.000

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Line	Item	Item Description	Unit	Total	Qty
0260	630.0500	Seed Water	MGAL	250.000	250.000
0262	633.5200	Markers Culvert End	EACH	16.000	16.000
0284	642.5401	Field Office Type D	EACH	0.650	0.650
0286	643.0300	Traffic Control Drums	DAY	94,450.000	94,450.000
0288	643.0420	Traffic Control Barricades Type III	DAY	4,800.000	4,800.000
0290	643.0705	Traffic Control Warning Lights Type A	DAY	4,800.000	4,800.000
0292	643.0715	Traffic Control Warning Lights Type C	DAY	30,500.000	30,500.000
0294	643.0900	Traffic Control Signs	DAY	29,000.000	29,000.000
0296	643.0910	Traffic Control Covering Signs Type I	EACH	10.000	10.000
0298	643.0920	Traffic Control Covering Signs Type II	EACH	30.000	30.000
0300	643.1050	Traffic Control Signs PCMS	DAY	155.000	155.000
0302	643.3165	Temporary Marking Line Paint 6-Inch	LF	40,000.000	40,000.000
0304	643.3170	Temporary Marking Line Epoxy 6-Inch	LF	40,000.000	40,000.000
0308	643.5000	Traffic Control	EACH	0.650	0.650
0312	645.0120	Geotextile Type HR	SY	42.000	42.000
0314	646.2020	Marking Line Epoxy 6-Inch	LF	735.000	735.000
0316	646.2025	Marking Line Grooved Black Epoxy 6-Inch	LF	4,670.000	4,670.000
0318	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	199,050.000	199,050.000
0320	646.4020	Marking Line Epoxy 10-Inch	LF	65.000	65.000
0322	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	2,300.000	2,300.000
0324	646.5020	Marking Arrow Epoxy	EACH	20.000	20.000
0326	646.5120	Marking Word Epoxy	EACH	8.000	8.000
0328	646.6120	Marking Stop Line Epoxy 18-Inch	LF	90.000	90.000
0332	646.7120	Marking Diagonal Epoxy 12-Inch	LF	200.000	200.000
0350	650.6000	Construction Staking Pipe Culverts	EACH	8.000	8.000
0354	650.8000	Construction Staking Resurfacing Reference	LF	61,889.000	61,889.000
0360	650.9911	Construction Staking Supplemental Control (project) 01. 1690-04-62	EACH	1.000	1.000
0364	650.9920	Construction Staking Slope Stakes	LF	9,000.000	9,000.000
0394	690.0150	Sawing Asphalt	LF	1,855.000	1,855.000
0398	705.0105	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0400	705.0110	Nuclear Gauge Correlation Strip - HMA, SMA	EACH	1.000	1.000
0402	705.2005	Incentive Density PWL HMA Pavement	DOL	31,300.000	31,300.000
0404	705.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	17,580.000	17,580.000
0406	705.2010	Incentive Air Voids HMA Pavement	DOL	31,300.000	31,300.000
0410	729.0440	Incentive IRI Ride	DOL	23,200.000	23,200.000
0414	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,625.000	1,625.000
0416	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,288.000	2,288.000
0428	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	4,900.000	4,900.000

EARTHWORK TABLE

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.00	MASS ORDINATE +/- (14)	WASTE	BORROW
DIVISION 1										
STH 69 112+67 - 119+75	112+67.63/119+75.85	TOTAL	12	170	-158	2,057	2,057	-2,215	0	2,215
DIVISION 1 SUBTOTAL			12	170	-158	2,057	2,057	-2,215	0	2,215
DIVISION 2										
STH 69 - 140+03 - 145+43	140+02.96/145+43.25	TOTAL	8	127	-119	2,118	2,118	-2,237	0	2,237
DIVISION 2 SUBTOTAL			8	127	-119	2,118	2,118	-2,237	0	2,237
DIVISION 3										
STH 69 - 152+11 - 154+53	152+10.65/154+52.54	TOTAL	6	58	-52	451	451	-503	0	503
DIVISION 3 SUBTOTAL			6	58	-52	451	451	-503	0	503
DIVISION 4										
STH 69 - 164+82 - 170+82	164+82.09/170+82.20	TOTAL	0	144	-144	3,925	3,925	-4,069	0	4,069
DIVISION 4 SUBTOTAL			0	144	-144	3,925	3,925	-4,069	0	4,069
DIVISION 5										
STH 69 - 177+49 - 187+05	177+48.73/187+05.31	TOTAL	4	229	-225	396	396	-621	0	621
DIVISION 5 SUBTOTAL			4	229	-225	396	396	-621	0	621
DIVISION 6										
STH 69 - 219+37 - 220+30	219+37.47/220+29.89	TOTAL	492	22	470	79	79	391	391	0
DIVISION 6 SUBTOTAL			492	22	470	79	79	391	391	0
DIVISION 7										
STH 69 - 245+83 - 246+33	245+82.97/246+33.05	TOTAL	144	12	132	107	107	25	25	0
DIVISION 7 SUBTOTAL			144	12	132	107	107	25	25	0
DIVISION 8										
STH 69 - 261+85 - 262+45	261+85.44/262+45.44	TOTAL	321	14	307	60	60	247	247	0
DIVISION 8 SUBTOTAL			321	14	307	60	60	247	247	0
DIVISION 9										
STH 69 - 384+56 - 385+28	384+56.05/385+27.60	TOTAL	222	17	205	55	55	150	150	0
DIVISION 9 SUBTOTAL			222	17	205	55	55	150	150	0
DIVISION 10										
STH 69 - 426+54 - 428+13	426+54.42/428+13.13	TOTAL	1	38	-37	31	31	-68	0	68
DIVISION 10 SUBTOTAL			1	38	-37	31	31	-68	0	68
DIVISION 11										
STH 69 - 429+04 - 431+23	429+04.13/431+22.99	TOTAL	1	52	-51	131	131	-182	0	182
DIVISION 11 SUBTOTAL			1	52	-51	131	131	-182	0	182

*EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS.
EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

EARTHWORK TABLE

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.00	MASS ORDINATE +/- (14)	WASTE	BORROW
DIVISION 12										
STH 69 - 500+91 - 512+48	500+90.68/512+47.49	TOTAL	14	277	-263	974	974	-1,237	0	1,237
DIVISION 12 SUBTOTAL			14	277	-263	974	974	-1,237	0	1,237
DIVISION 13										
STH 69 - 614+53 - 617+98	614+52.58/617+97.74	TOTAL	0	82	-82	20	20	-102	0	102
DIVISION 13 SUBTOTAL			0	82	-82	20	20	-102	0	102
DIVISION 14										
STH 69 - 640+69 - 641+09	640+69.40/641+09.40	TOTAL	146	9	137	1	1	136	136	0
DIVISION 14 SUBTOTAL			146	9	137	1	1	136	136	0
DIVISION 15										
STH 69 - 694+31 - 695+21	694+31.47/695+21.47	TOTAL	623	21	602	114	114	488	488	0
DIVISION 15 SUBTOTAL			623	21	602	114	114	488	488	0
DIVISION 16										
STH 69 - 701+90 - 713+19	701+89.59/713+18.88	TOTAL	1,212	268	944	268	268	676	676	0
DIVISION 16 SUBTOTAL			1,212	268	944	268	268	676	676	0
DIVISION 17										
STH 69 - 729+31 - 739+58	729+30.79/739+58.34	TOTAL	980	244	736	150	150	586	586	0
DIVISION 17 SUBTOTAL			980	244	736	150	150	586	586	0
GRAND TOTAL			4,186	1,784	2,402	10,937	10,937	-8,535	2,699	11,234

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL

(13) EXPANDED FILL FACTOR = 1.00

DEPENDING ON SELECTIONS: **EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR**

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

*EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS.
EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

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201 - CLEARING AND GRUBBING

CATEGORY	STATION	TO	STATION	201.0205 GRUBBING STA
0010	166+00	-	171+00	5
0010	510+00	-	512+00	2
0010	616+00	-	617+00	1
0010	735+00	-	737+00	2
			TOTAL 0010	10

305 - BASE AGGREGATE

* BID ITEM LISTED IN MULTIPLE TABLES

CATEGORY	STATION	TO	STATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 624.0100 WATER MGAL
0010	100+00	-	150+00	-	400	15
0010	150+00	-	200+00	-	400	15
0010	200+00	-	250+00	-	500	35
0010	250+00	-	300+00	-	500	25
0010	300+00	-	350+00	-	500	20
0010	350+00	-	399+00	-	500	25
0010	399+00	-	450+00	-	500	20
0010	450+00	-	500+00	-	230	10
0010	500+00	-	544+00	-	230	10
0010	544+00	-	600+00	-	450	25
0010	600+00	-	650+00	-	500	25
0010	650+00	-	700+00	-	500	25
0010	700+00	-	750+00	-	400	45
0010	750+00	-	763+95	-	200	5
			TOTAL 0010	0	5,810	300
0020	100+00	-	150+00	50	-	-
0020	150+00	-	200+00	50	-	-
0020	200+00	-	250+00	50	-	-
0020	250+00	-	300+00	50	-	-
0020	300+00	-	350+00	50	-	-
0020	350+00	-	399+00	49	-	-
0020	399+00	-	450+00	51	-	-
0020	450+00	-	500+00	23	-	-
0020	500+00	-	544+00	24	-	-
0020	544+00	-	600+00	54	-	-
0020	600+00	-	650+00	50	-	-
0020	650+00	-	700+00	50	-	-
0020	700+00	-	750+00	50	-	-
0020	750+00	-	763+95	14	-	-
			TOTAL 0020	615	0	0
			TOTAL	615	5,810	300

204 - ROADWAY REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	SPV.0180.01 REMOVING DISTRESSED PAVEMENT MILLING SY
0010	100+00	-	150+00	MAINLINE & SHOULDER	145	18,725	375
0010	150+00	-	200+00	MAINLINE & SHOULDER	60	18,340	370
0010	200+00	-	250+00	MAINLINE & SHOULDER	40	16,915	340
0010	250+00	-	300+00	MAINLINE & SHOULDER	50	22,140	445
0010	300+00	-	350+00	MAINLINE & SHOULDER	470	19,565	395
0010	350+00	-	399+00	MAINLINE & SHOULDER	125	17,165	340
0010	399+00	-	450+00	MAINLINE & SHOULDER	210	17,000	340
0010	450+00	-	500+00	MAINLINE & SHOULDER	-	9,175	185
0010	500+00	-	544+00	MAINLINE & SHOULDER	110	10,480	210
0010	544+00	-	600+00	MAINLINE & SHOULDER	210	22,100	445
0010	600+00	-	650+00	MAINLINE & SHOULDER	25	18,290	365
0010	650+00	-	700+00	MAINLINE & SHOULDER	-	17,060	350
0010	700+00	-	750+00	MAINLINE & SHOULDER	135	29,725	600
0010	750+00	-	763+95	MAINLINE & SHOULDER	80	6,770	140
				TOTAL 0010	1,660	243,450	4,900

305-312 - CULVERT STONE

* BID ITEM LISTED IN MULTIPLE TABLES

CATEGORY	CULVERT NUMBER	CULVERT STATION	LOCATION	209.2100 BACKFILL GRANULAR GRADE 2 CY	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	1.1 - 1.0	219+86	MAINLINE	240	320
0010	3.1 - 3.0	246+08	MAINLINE	20	110
0010	4.1 - 4.0	262+16	MAINLINE	165	225
0010	5.1 - 5.0	384+91	MAINLINE	35	110
0010	6.1 - 6.0	640+89	MAINLINE	15	90
0010	7.1 - 7.0	694+77	MAINLINE	375	375
0010	8.1 - 8.0	705+41	MAINLINE	600	750
0010	9.1 - 9.0	735+67	MAINLINE	490	575
			UNDISTRIBUTED	60	145
			TOTAL 0010	2,000	2,700

305-465 - DRIVEWAYS

* BID ITEM LISTED IN MULTIPLE TABLES

CATEGORY	STATION	OFFSET	DRIVEWAY MATERIAL	* 204.0110 REMOVING ASPHALTIC SURFACE SY	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	* 624.0100 WATER MGAL	* 690.0150 SAWING ASPHALT LF
0010	109+00	LT	AGGREGATE	-	95	-	-	1.9	-
0010	112+55	RT	AGGREGATE	-	42	-	-	0.8	-
0010	119+85	LT	AGGREGATE	-	23	-	-	0.5	-
0010	127+00	RT	ASPHALT	47	-	15	8	0.3	31
0010	129+85	LT	ASPHALT	33	-	12	6	0.2	10
0010	151+80	LT	AGGREGATE	-	30	-	-	0.6	-
0010	152+00	RT	AGGREGATE	-	32	-	-	0.6	-
0010	159+25	LT	AGGREGATE	-	9	-	-	0.2	-
0010	159+95	RT	AGGREGATE	-	9	-	-	0.2	-
0010	170+80	RT	AGGREGATE	-	26	-	-	0.5	-
0010	177+40	LT	AGGREGATE	-	13	-	-	0.3	-
0010	190+30	RT	AGGREGATE	-	20	-	-	0.4	-
0010	207+80	RT	AGGREGATE	-	20	-	-	0.4	-
0010	217+75	LT	AGGREGATE	-	24	-	-	0.5	-
0010	225+85	LT	AGGREGATE	-	17	-	-	0.3	-
0010	226+25	RT	AGGREGATE	-	12	-	-	0.2	-
0010	233+35	RT	AGGREGATE	-	25	-	-	0.5	-
0010	240+20	LT	AGGREGATE	-	20	-	-	0.4	-
0010	240+40	RT	AGGREGATE	-	20	-	-	0.4	-
0010	253+70	RT	AGGREGATE	-	13	-	-	0.3	-
0010	261+00	LT	AGGREGATE	-	18	-	-	0.4	-
0010	264+20	RT	AGGREGATE	-	20	-	-	0.4	-
0010	281+15	RT	AGGREGATE	-	15	-	-	0.3	-
0010	292+90	LT	AGGREGATE	-	15	-	-	0.3	-
0010	293+20	LT	AGGREGATE	-	15	-	-	0.3	-
0010	299+45	LT	AGGREGATE	-	20	-	-	0.4	-
0010	329+00	RT	AGGREGATE	-	21	-	-	0.4	-
0010	336+00	LT	ASPHALT	44	-	17	7	0.3	25
0010	337+15	RT	ASPHALT	49	-	18	8	0.4	22
0010	339+35	RT	ASPHALT	68	-	25	12	0.5	35
0010	345+10	RT	AGGREGATE	-	22	-	-	0.4	-
0010	352+00	LT	ASPHALT	174	-	63	31	1.2	55
0010	359+70	LT	AGGREGATE	-	24	-	-	0.5	-
0010	364+90	RT	AGGREGATE	-	32	-	-	0.6	-
0010	370+75	RT	AGGREGATE	-	40	-	-	0.8	-
0010	372+70	LT	AGGREGATE	-	14	-	-	0.3	-
0010	375+60	RT	AGGREGATE	-	14	-	-	0.3	-
0010	401+70	RT	AGGREGATE	-	30	-	-	0.6	-
0010	409+00	LT	AGGREGATE	-	20	-	-	0.4	-
0010	409+00	RT	AGGREGATE	-	16	-	-	0.3	-
0010	423+25	LT	AGGREGATE	-	21	-	-	0.4	-
0010	433+80	RT	AGGREGATE	-	20	-	-	0.4	-
0010	439+90	RT	AGGREGATE	-	22	-	-	0.4	-
0010	448+75	RT	AGGREGATE	-	20	-	-	0.4	-
0010	449+80	LT	AGGREGATE	-	18	-	-	0.4	-

QUANTITIES CONTINUE ON NEXT TABLE

QUANTITIES CONTINUED FROM PREVIOUS TABLE

305-465 - DRIVEWAYS

* BID ITEM LISTED IN MULTIPLE TABLES

CATEGORY	STATION	OFFSET	DRIVEWAY MATERIAL	* 204.0110 REMOVING ASPHALTIC SURFACE SY	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	* 624.0100 WATER MGAL	* 690.0150 SAWING ASPHALT LF
0010	512+60	LT	AGGREGATE	-	20	-	-	0.4	-
0010	512+60	RT	AGGREGATE	-	27	-	-	0.5	-
0010	551+10	LT	ASPHALT	64	-	25	12	0.4	27
0010	561+65	LT	ASPHALT	100	-	35	16	0.7	100
0010	567+30	LT	AGGREGATE	-	54	-	-	1.1	-
0010	578+55	RT	AGGREGATE	-	20	-	-	0.4	-
0010	589+85	LT	AGGREGATE	-	48	-	-	1.0	-
0010	591+90	LT	AGGREGATE	-	36	-	-	0.7	-
0010	611+30	LT	AGGREGATE	-	14	-	-	0.3	-
0010	616+00	LT	AGGREGATE	-	51	-	-	1.0	-
0010	616+70	RT	AGGREGATE	-	85	-	-	1.7	-
0010	636+50	RT	AGGREGATE	-	70	-	-	1.4	-
0010	657+10	LT	AGGREGATE	-	30	-	-	0.6	-
0010	658+25	RT	AGGREGATE	-	35	-	-	0.7	-
0010	666+55	RT	AGGREGATE	-	17	-	-	0.3	-
0010	674+65	LT	AGGREGATE	-	31	-	-	0.6	-
0010	678+15	LT	AGGREGATE	-	26	-	-	0.5	-
0010	678+15	RT	AGGREGATE	-	33	-	-	0.7	-
0010	693+30	RT	AGGREGATE	-	34	-	-	0.7	-
0010	707+50	RT	AGGREGATE	-	12	-	-	0.2	-
			TOTAL 0010	579	1,530	210	100	34	305

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3

460-465 - HMA PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	450.6224 HMA PAVEMENT 4 MT 58-28 S TON	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON	465.0520 ASPHALTIC RUMBLE STRIPS, SHOULDER LF	465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE LF
0010	100+00	-	150+00	MAINLINE & SHOULDER	2,150	1,440	90	-	4,610
0010	150+00	-	200+00	MAINLINE & SHOULDER	2,090	1,400	90	-	4,220
0010	200+00	-	250+00	MAINLINE & SHOULDER	2,320	1,400	80	-	4,610
0010	250+00	-	300+00	MAINLINE & SHOULDER	2,840	1,850	110	-	4,210
0010	300+00	-	350+00	MAINLINE & SHOULDER	2,330	1,580	100	-	3,810
0010	350+00	-	399+00	MAINLINE & SHOULDER	2,030	1,330	80	-	4,470
0010	399+00	-	450+00	MAINLINE & SHOULDER	1,930	1,320	80	-	4,480
0010	450+00	-	500+00	MAINLINE & SHOULDER	1,060	700	60	-	2,300
0010	500+00	-	544+00	MAINLINE & SHOULDER	1,220	750	50	-	2,410
0010	544+00	-	600+00	MAINLINE & SHOULDER	2,550	1,750	60	-	3,830
0010	600+00	-	650+00	MAINLINE & SHOULDER	2,130	1,410	90	-	4,610
0010	650+00	-	700+00	MAINLINE & SHOULDER	2,070	1,350	80	-	5,000
0010	700+00	-	750+00	MAINLINE & SHOULDER	4,100	2,300	140	-	3,600
0010	750+00	-	763+95	MAINLINE & SHOULDER	800	550	40	-	1,200
				TOTAL 0010	29,620	19,130	1,150	0	53,360
0020	100+00	-	150+00	SHOULDER WIDENING	200	-	200	8,720	-
0020	150+00	-	200+00	SHOULDER WIDENING	200	-	200	9,400	-
0020	200+00	-	250+00	SHOULDER WIDENING	260	-	260	9,620	-
0020	250+00	-	300+00	SHOULDER WIDENING	260	-	260	9,280	-
0020	300+00	-	350+00	SHOULDER WIDENING	260	-	260	9,000	-
0020	350+00	-	399+00	SHOULDER WIDENING	250	-	250	9,110	-
0020	399+00	-	450+00	SHOULDER WIDENING	250	-	250	9,350	-
0020	450+00	-	500+00	SHOULDER WIDENING	120	-	120	4,200	-
0020	500+00	-	544+00	SHOULDER WIDENING	80	-	80	4,800	-
0020	544+00	-	600+00	SHOULDER WIDENING	240	-	240	8,690	-
0020	600+00	-	650+00	SHOULDER WIDENING	260	-	260	9,110	-
0020	650+00	-	700+00	SHOULDER WIDENING	260	-	260	9,710	-
0020	700+00	-	750+00	SHOULDER WIDENING	180	-	180	7,670	-
0020	750+00	-	763+95	SHOULDER WIDENING	80	-	80	2,210	-
				TOTAL 0020	2,900	0	2,900	110,870	0
				PROJECT TOTAL	32,520	19,130	4,050	110,870	53,360

ASPHALTIC SURFACE (465.0105) USED IN SHOULDER WIDENING

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521-633 - PIPES AND ENDWALLS

					203.0100	522.0124	522.0154	522.0430	522.1024	522.1030	522.1054	606.0200	628.7555	633.5200	645.0120				
CATEGORY	INLET STRUCTURE	INLET STATION	OUTLET STRUCTURE	OUTLET STATION	REMOVING SMALL PIPE CULVERTS EACH	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	CULVERT PIPE REINFORCED CONCRETE CLASS III 54-INCH LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 54-INCH EACH	RIPRAP MEDIUM CY	CULVERT PIPE CHECKS EACH	MARKERS CULVERT END EACH	GEOTEXTILE TYPE HR SY	THICKNESS (IN)	INVERT ELEVATIONS INLET	INVERT ELEVATIONS OUTLET	SLOPE
0010	EW 1.1	220+05	EW 1.0	219+86	1	-	96	-	-	-	2	-	9	2	-	5.50	1016.99'	1016.37'	0.64%
0010	EW 3.1	246+08	EW 3.0	246+08	1	88	-	-	2	-	-	2	2	2	8	3.00	1090.50'	1087.11'	3.85%
0010	EW 4.1	262+16	EW 4.0	262+16	1	88	-	-	2	-	-	3	2	2	10	3.00	1055.70'	1053.59'	2.40%
0010	EW 5.1	384+76	EW 5.0	384+91	1	80	-	-	2	-	-	-	2	2	-	3.00	853.75'	852.75'	1.25%
0010	EW 6.1	640+89	EW 6.0	640+89	1	-	-	72	-	2	-	-	2	2	-	3.50	867.25'	864.30'	4.10%
0010	EW 7.1	694+77	EW 7.0	694+77	1	-	-	128	-	2	-	-	2	2	-	3.50	938.75'	935.10'	2.85%
0010	EW 8.1	705+71	EW 8.0	705+41	1	-	-	160	-	2	-	3	2	2	10	3.50	979.85'	971.85'	5.00%
0010	EW 9.1	735+33	EW 9.0	735+67	1	120	-	-	2	-	-	4	2	2	14	3.00	986.15'	982.55'	3.00%
			TOTAL 0010		8	376	96	360	8	6	2	12	23	16	42				

614 - BEAM GUARD

					204.0165	614.0010	614.0397	614.2330	614.2340	614.2350	614.2500	614.2610	614.2630
CATEGORY	STATION	TO	STATION	OFFSET	REMOVING GUARDRAIL LF	BARRIER SYSTEM GRADING SHAPING FINISHING EACH	GUARDRAIL MOW STRIP EMULSIFIED ASPHALT SY	MGS GUARDRAIL 3 K LF	MGS GUARDRAIL 3 L LF	MGS GUARDRAIL SHORT RADIUS LF	MGS THRIE BEAM TRANSITION LF	MGS GUARDRAIL TERMINAL EAT EACH	MGS GUARDRAIL SHORT RADIUS TERMINAL EACH
0010	112+73	-	119+48	LT/RT	1,300	2	345	1,165.5	-	13	-	3	1
0010	140+30	-	145+16	LT/RT	910	2	250	687.5	-	-	-	4	-
0010	151+87	-	154+25	LT/RT	440	2	140	343.5	-	63	-	2	2
0010	165+09	-	170+04	LT/RT	980	2	280	750.0	-	-	-	4	-
0010	177+77	-	186+77	LT/RT	1,240	2	380	712.5	225	-	-	4	-
0010	426+96	-	430+77	LT/RT	450	2	165	100.0	-	-	158	4	-
0010	501+39	-	512+00	LT/RT	780	2	490	1,700.0	-	-	-	4	-
0010	615+00	-	617+30	LT/RT	290	2	110	156.0	-	85	-	2	2
0010	702+18	-	712+91	LT	1,070	1	270	962.5	-	-	-	2	-
0010	729+68	-	739+39	RT	740	1	270	862.5	-	-	-	2	-
					8,200	18	2,700	7,440.0	225	160	158	31	5

FOR INFORMATION ONLY

BORROW CY	SALVAGED TOPSOIL SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 30 LB	SEEDING MIXTURE NO. 80 LB	SEED WATER MGAL	EROSION MAT URBAN CLASS II TYPE B SY
2215	5,660	4.0	255	-	130	5660
2237	4,660	3.0	210	-	105	4659
503	1,560	1.0	70	-	35	1560
4069	6,825	4.5	210	-	153	6822
621	2,280	1.5	105	-	51	2279
250	1,255	0.50	55	-	28	1255
1237	3,475	2.00	-	26	78	3475
102	350	0.25	-	3	10	350
-	1,565	1.00	-	12	35	1565
-	1,200	0.80	-	10	27	1200

625-630 - LANDSCAPE ITEMS

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2023 EROSION MAT CLASS II TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0180 SEEDING MIXTURE NO. 80 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0010	111+78	-	120+65	LT/RT	BEAM GUARD	-	-	670	670	-	-	-	-	-	-	-	-
0010	139+45	-	145+75	LT/RT	BEAM GUARD	-	-	1,210	1,210	-	-	-	-	-	-	-	-
0010	151+88	-	155+42	LT/RT	BEAM GUARD	-	-	160	160	-	-	-	-	-	-	-	-
0010	164+22	-	171+71	LT/RT	BEAM GUARD	-	-	885	885	-	-	-	-	-	-	-	-
0010	177+50	-	187+50	LT/RT	BEAM GUARD	-	-	450	450	-	-	-	-	-	-	-	-
0010	219+35	-	219+86	LT/RT	CULVERT	610	-	95	95	-	-	610	0.5	30	-	16	14
0010	245+81	-	246+08	LT/RT	CULVERT	315	-	60	60	-	-	315	0.25	15	-	8	7
0010	261+85	-	262+16	LT/RT	CULVERT	405	-	80	80	-	-	405	0.25	20	-	11	9
0010	384+55	-	384+91	LT/RT	CULVERT	415	-	-	-	-	-	415	0.25	20	-	11	9
0010	424+85	-	428+13	LT/RT	BEAM GUARD	-	-	175	175	-	-	-	-	-	-	-	-
0010	429+02	-	431+95	LT/RT	BEAM GUARD	-	-	-	-	-	-	-	-	-	-	-	-
0010	500+32	-	512+46	LT/RT	BEAM GUARD	-	-	250	250	-	-	-	-	-	-	-	-
0010	614+50	-	616+15	RT	BEAM GUARD	-	-	175	175	-	-	-	-	-	-	-	-
0010	616+15	-	617+98	LT	BEAM GUARD	-	-	185	185	-	-	-	-	-	-	-	-
0010	640+90	-	640+89	LT/RT	CULVERT	220	-	-	-	-	-	220	0.25	10	4	6	5
0010	694+30	-	694+77	LT/RT	CULVERT	755	-	105	105	-	-	755	0.5	35	6	20	17
0010	700+91	-	713+81	LT	BEAM GUARD/CULVERT	-	-	270	270	-	-	-	-	70	-	-	-
0010	704+77	-	705+41	RT	CULVERT	580	-	-	-	-	-	580	0.5	30	5	16	13
0010	728+62	-	740+24	RT	BEAM GUARD/CULVERT	-	-	85	85	-	-	-	-	55	-	-	-
0010	735+06	-	735+67	LT	CULVERT	410	-	145	145	-	-	410	0.5	20	4	11	9
0010	UNDISTRIBUTED MOBILIZATION				-	-	-	-	-	5	5	-	-	-	-	-	-
0010	UNDISTRIBUTED SILT FENCE				-	-	-	-	-	-	-	-	-	-	-	-	-
0010	UNDISTRIBUTED EROSION MAT				-	2,145	-	-	-	-	-	2,145	1.75	100	16	57	54
0010	UNDISTRIBUTED MULCHING				-	4,145	5,000	-	-	-	-	1,145	3.3	250	30	44	113
					TOTAL 0010	10,000	5,000	5,000	5,000	5	5	7,000	8.00	655	65	200	250

643 - TRAFFIC CONTROL

CATEGORY	PHASE	DAYS	LOCATION	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH LF	643.3170 TEMPORARY MARKING LINE EPOXY 6-INCH LF	643.5000 TRAFFIC CONTROL EACH	REMARKS
0010	PCMS PRIOR TO CONSTRUCTION	7	PROJECT LIMITS	70	-	-	-	-	-	-	14	-	-	-	ADVANCED WARNING
0010	STAGE 1, 2, & 4 - MILLING/PAVING	131	STH 69	85,150	-	-	27,550	3,550	-	-	-	38,000	-	-	-
0010	STAGE 3 - DETOUR	49	DETOUR ROUTE	-	3,750	3,750	-	20,100	6	24	112	-	38,000	-	1 CYCLE (COVER FOR STAGE 3 AND REMOVE FOR STAGE 4)
0010	UNDISTRIBUTED	-	PROJECT	9,230	1,050	1,050	2,950	5,350	4	6	29	2,000	2,000	0.65	-
			TOTAL 0010	94,450	4,800	4,800	30,500	29,000	10	30	155	40,000	40,000	0.65	

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646 - PAVEMENT MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	646.2020 MARKING LINE EPOXY 6-INCH WHITE LF	646.2020 MARKING LINE EPOXY 6-INCH YELLOW LF	646.2025 MARKING LINE GROOVED BLACK EPOXY 6-INCH LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH WHITE LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH YELLOW LF	646.4020 MARKING LINE EPOXY 10-INCH WHITE LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH WHITE LF	646.5020 MARKING ARROW EPOXY WHITE EACH	646.5120 MARKING WORD EPOXY WHITE EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF
0010	100+00	-	150+00	MAINLINE & SHOULDER	-	75	-	9,660	6,460	-	190	2	-	-	-
0010	150+00	-	200+00	MAINLINE & SHOULDER	-	-	-	9,760	5,490	-	-	-	-	-	-
0010	200+00	-	250+00	MAINLINE & SHOULDER	-	-	20	6,640	5,410	-	-	-	-	-	-
0010	250+00	-	300+00	MAINLINE & SHOULDER	-	-	1,250	11,080	9,070	-	-	-	-	-	-
0010	300+00	-	350+00	MAINLINE & SHOULDER	-	-	520	10,290	5,450	-	-	-	-	-	-
0010	350+00	-	399+00	MAINLINE & SHOULDER	-	-	-	9,680	6,840	-	-	-	-	-	-
0010	399+00	-	450+00	MAINLINE & SHOULDER	-	-	-	10,150	9,530	-	-	-	-	-	-
0010	450+00	-	500+00	MAINLINE & SHOULDER	-	-	270	3,860	3,410	-	-	-	-	-	-
0010	500+00	-	544+00	MAINLINE & SHOULDER	-	-	270	2,180	2,630	-	-	-	-	-	-
0010	544+00	-	600+00	MAINLINE & SHOULDER	-	400	70	10,930	6,350	65	1,130	10	4	50	200
0010	600+00	-	650+00	MAINLINE & SHOULDER	-	-	70	9,950	2040	-	-	-	-	-	-
0010	650+00	-	700+00	MAINLINE & SHOULDER	-	-	-	10,025	5,940	-	-	-	-	-	-
0010	700+00	-	750+00	MAINLINE & SHOULDER	120	120	1,900	11,325	10,000	-	730	6	3	40	-
0010	750+00	-	763+95	MAINLINE & SHOULDER	20	-	300	2,980	1,920	-	250	2	1	-	-
				SUBTOTALS	140	595	-	118,510	80,540	-	-	-	-	-	-
				TOTAL 0010	735		4,670	199,050		65	2,300	20	8	90	200

650 - SURVEY STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 1690-04-62) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	100+00	-	763+95	ENTIRE PROJECT	8	61,889	1	9,000
				TOTAL 0010	8	61,889	1	9,000

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690 - SAWCUTS

* BID ITEM LISTED IN MULTIPLE TABLES

CATEGORY	STATION	OFFSET	LOCATION	* 690.0150 SAWING ASPHALT LF
0010	100+00	-	SOUTH LIMIT	40
0010	139+00	LT	AEBLY ROAD	29
0010	139+00	RT	CTH FF	30
0010	183+60	RT	ABELS ROAD	28
0010	195+65	LT	BANKERT ROAD	20
0010	216+65	LT	COLD SPRING ROAD	23
0010	219+85	-	CULVERT REPLACE	70
0010	224+10	-	CULVERT REPLACE	70
0010	246+10	-	CULVERT REPLACE	92
0010	253+70	LT	COLD SPRING ROAD	22
0010	262+15	-	CULVERT REPLACE	92
0010	279+80	RT	ALLISON ROAD	22
0010	306+50	RT	HARPER ROAD	27
0010	326+85	LT	HALLOWAY RD	27
0010	339+35	LT	CHESEBRO LN	18
0010	375+55	LT	WASHINGTON ROAD	23
0010	384+95	-	CULVERT REPLACE	64
0010	399+00	-	BRIDGE ABUTMENTS	78
0010	426+50	RT	GUTZMER ROAD	22
0010	428+65	-	BRIDGE ABUTMENTS	122
0010	554+75	LT	WASHINGTON RD	40
0010	554+75	RT	COATES AVENUE	40
0010	629+25	LT	HEFTY ROAD	22
0010	640+90	-	CULVERT REPLACE	68
0010	694+75	-	CULVERT REPLACE	62
0010	705+40	-	CULVERT REPLACE	120
0010	715+00	RT	EXETER CROSSING ROAD	30
0010	719+90	LT	CTH NN	26
0010	727+30	RT	VALLEY VIEW ROAD	22
0010	735+65	-	CULVERT REPLACE	92
0010	741+50	RT	NEW GLARUS ENTRANCE	38
0010	760+30	RT	CLOW PATH LANE	36
0010	763+95	-	NORTH LIMIT	35
			TOTAL 0010	1,550

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1690-04-62 PWL WITHIN LIMITS (PWL) MIXTURE USE TABLE

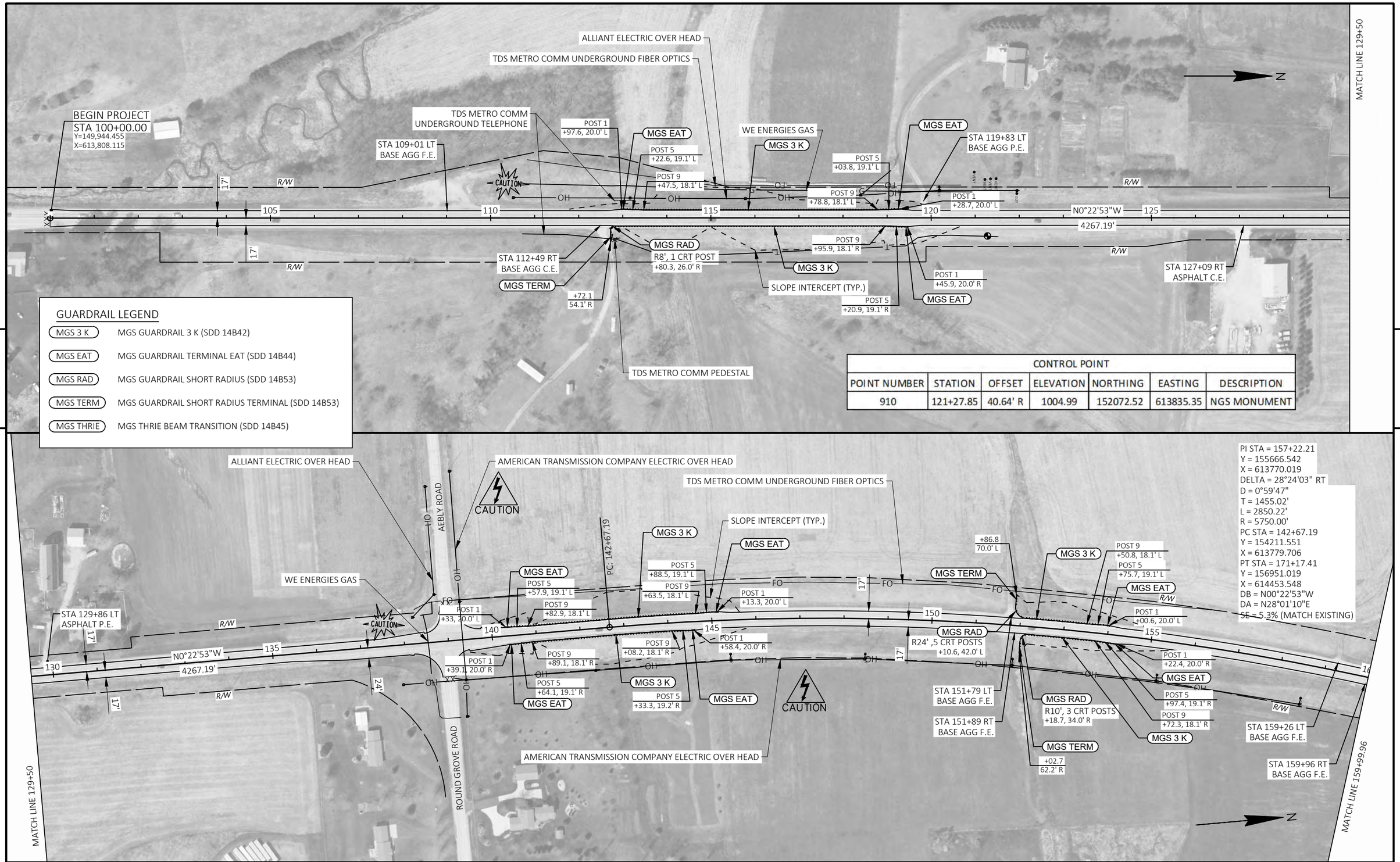
LOCATION	STATION	MIXTURE USE:	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO USE	
							MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12 FOOT DRIVING LANE (MAINLINE)	100+00 TO 466+94, 494+00 TO 524+10, 546+63 to 793+65	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	20090	2"	PWL	PWL NUCLEAR GAUGE
12 FOOT DRIVING LANE (AUXILLERY LANES)	242+47 TO 322+70, 494+00 TO 513+42 RT, 494+00 TO 503+41, 696+52 TO 733+72, 700+08 TO 793+65	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	4185	2"	PWL	PWL NUCLEAR GAUGE
VARIOUS TURN LANES/BYPASS LANES	135+44 TO 138+22, 548+90 TO 553+55, 550+00 TO 554+34, 555+16 TO 559+20, 555+90 TO 559+29, 559+03 TO 564+65, 625+72 TO 632+57, 720+55 TO 724+00, 736+60 TO 740+86, 756+15 TO 759+65	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	1205	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	100+00 TO 466+94, 494+00 TO 524+10, 546+63 TO 793+65	UPPER LAYER	MILLED EXISTING HMA SURFACE/ASPHALTIC SURFACE	4 MT 58-28 S	5600	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	VARIOUS	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	270	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	VARIOUS	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	270	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	VARIOUS	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	270	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	620	2"	PWL	DEPARTMENT ACCEPTANCE CORES*

*DEPARTMENT ACCEPTANCE CORES ARE CUT AND TESTED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER. THE DEPARTMENT WILL MAINTAIN CUSTODY OF THE CORES

1690-04-73 PWL WITHIN LIMITS (PWL) MIXTURE USE TABLE

LOCATION	STATION	MIXTURE USE:	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO USE	
							MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12 FOOT DRIVING LANE (MAINLINE)	466+94 TO 494+00, 536+49 TO 542+64	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	735	2"	PWL	PWL NUCLEAR GAUGE
12 FOOT DRIVING LANE (MAINLINE)	466+94 TO 489+79, 542+64 TO 543+53, 544+34 TO 546+63	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	361	2"	PWL	PWL CORES
12 FOOT DRIVING LANE (MAINLINE)	466+94 TO 489+79, 542+64 TO 543+53, 544+34 TO 546+63	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	362	2"	PWL	PWL CORES
12 FOOT DRIVING LANE (MAINLINE)	466+94 TO 489+79, 542+64 TO 543+53, 544+34 TO 546+63	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	361	2"	PWL	PWL CORES
12 FOOT DRIVING LANE (AUXILLERY LANES)	482+11 TO 488+73, 491+00 LT, 489+79 TO 494+00 RT	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	198	2"	PWL	PWL NUCLEAR GAUGE
VARIOUS MEDIAN AND LEFT TURN LANES	466+94 TO 488+73, 489+79 TO 492+17	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	272	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
12 FOOT DRIVING LANE NB AND SB LEGS	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	250	2"	PWL	PWL NUCLEAR GAUGE
12 FOOT DRIVING LANE NB AND SB LEGS	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	311	2.5"	PWL	PWL CORES
12 FOOT DRIVING LANE NB AND SB LEGS	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	310	2.5"	PWL	PWL CORES
EB AND WB ROUNDABOUT LEGS	10+00'EB' TO 14+28'EB', 10+00'EB' TO 14+28'WB', 18+12'EB' TO 19+18'EB', 18+08'WB' TO 19+18'WB'	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	235	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
EB AND WB ROUNDABOUT LEGS	10+00'EB' TO 14+28'EB', 10+00'EB' TO 14+28'WB', 18+12'EB' TO 19+18'EB', 18+08'WB' TO 19+18'WB'	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	351	3"	PWL	DEPARTMENT ACCEPTANCE CORES*
NB AND SB ROUNDABOUT MEDIAN	524+10'NB' TO 527+55'NB', 533+03'SB' - 536+49'SB'	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	46	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
NB AND SB ROUNDABOUT MEDIAN	524+10'NB' TO 527+55'NB', 533+03'SB' - 536+49'SB'	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	56	2.5"	PWL	DEPARTMENT ACCEPTANCE CORES*
NB AND SB ROUNDABOUT MEDIAN	524+10'NB' TO 527+55'NB', 533+03'SB' - 536+49'SB'	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	56	2.5"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS NB AND SB ROUNDABOUT SHOULDER WIDTH	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	109	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS NB AND SB ROUNDABOUT SHOULDER WIDTH	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	135	2.5"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS NB AND SB ROUNDABOUT SHOULDER WIDTH	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	135	2.5"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	466+94 TO 488+73, 489+79 TO 494+00, 536+49 TO 542+63	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	225	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	466+94 TO 492+26, 526+62 TO 543+53, 544+34 TO 546+63	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	244	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	466+94 TO 492+26, 526+62 TO 543+53, 544+34 TO 546+63	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	244	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	466+94 TO 492+26, 526+62 TO 543+53, 544+34 TO 546+63	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	244	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
CULVERT REPLACEMENT	488+73 TO 489+79	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	78	2"	PWL	PWL NUCLEAR GAUGE
CULVERT REPLACEMENT	488+73 TO 489+79	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	78	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
CULVERT REPLACEMENT	488+73 TO 489+79	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	78	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS/RUMBLE STRIP PATCH	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	280	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	25	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	24	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	24	2"	PWL	DEPARTMENT ACCEPTANCE CORES*

*DEPARTMENT ACCEPTANCE CORES ARE CUT AND TESTED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER. THE DEPARTMENT WILL MAINTAIN CUSTODY OF THE CORES



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 80 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_050201_PN.DWG
LAYOUT NAME - 1 PD
PLOT DATE : 7/8/2025 2:29 PM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

PI STA = 157+22.21
Y = 155666.542
X = 613770.019
DELTA = 28°24'03" RT
D = 0°59'47"
T = 1455.02'
L = 2850.22'
R = 5750.00'
PC STA = 142+67.19
Y = 154211.551
X = 613779.706
PT STA = 171+17.41
Y = 156951.019
X = 614453.548
DB = N00°22'53"W
DA = N28°01'10"E
SE = 5.3% (MATCH EXISTING)

MATCH LINE 159+99.96

MATCH LINE 190+49.57

TDS METRO COMM UNDERGROUND FIBER OPTICS

STA 177+43 LT
BASE AGG F.E.

SLOPE INTERCEPT (TYP.)

BUSHNELL CREEK

PT: 171+17.41

STA 170+99 RT
BASE AGG P.E.

AMERICAN TRANSMISSION COMPANY ELECTRIC OVER HEAD

CAUTION

N28°01'10"E
5551.16'

ABELS ROAD

CP 900

STA 190+21 RT
BASE AGG F.E.

TDS METRO COMM UNDERGROUND FIBER OPTICS

CONTROL POINT						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
900	184+07.06	125.85' R	979.91	158031.1	615168.26	NGS MONUMENT

GUARDRAIL LEGEND

MGS 3 K	MGS GUARDRAIL 3 K (SDD 14B42)
MGS EAT	MGS GUARDRAIL TERMINAL EAT (SDD 14B44)
MGS RAD	MGS GUARDRAIL SHORT RADIUS (SDD 14B53)
MGS TERM	MGS GUARDRAIL SHORT RADIUS TERMINAL (SDD 14B53)
MGS THRIE	MGS THRIE BEAM TRANSITION (SDD 14B45)
MGS 3 L	MGS GUARDRAIL 3 L (SDD 18B42)

BENVERT ROAD

COLD SPRINGS ROAD

AMERICAN TRANSMISSION COMPANY ELECTRIC OVER HEAD

CAUTION

SEE PLAN DETAILS FOR CULVERT WORK

SLOPE INTERCEPT (TYP.)

N28°01'10"E
5551.16'

STA 207+80 RT
BASE AGG F.E.

STA 218+75 RT
ASPHALT P.E.

ALLIANT ELECTRIC OVER HEAD

TDS METRO COMM UNDERGROUND FIBER OPTICS

TDS METRO COMM UNDERGROUND TELEPHONE

MATCH LINE 190+49.57

MATCH LINE 220+99.57

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 81 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_050201_PN.DWG
LAYOUT NAME - 2 PD

PLOT DATE : 7/21/2025 4:33 PM PLOT BY : RYAN RUDZINSKI PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

MATCH LINE 220+99.57

AMERICAN TRANSMISSION COMPANY ELECTRIC OVER HEAD

CAUTION

PC: 226+68.56

PI STA = 241+09.61
Y = 163123.650
X = 617738.286
DELTA = 28°22'33" LT
D = 1°00'19"
T = 1441.04'
L = 2822.94'
R = 5700.00'
PC STA = 226+68.56
Y = 161851.514
X = 617061.324
PT STA = 254+91.50
Y = 164564.665
X = 617729.323
DB = N28°01'10"E
DA = N00°21'23"W
SE = 2.2% (MATCH EXISTING)

TDS METRO COMM UNDERGROUND FIBER OPTICS

TDS METRO COMM UNDERGROUND FIBER OPTICS

SEE PLAN DETAILS FOR CULVERT WORK

SLOPE INTERCEPT (TYP.)

N

MATCH LINE 251+49.84

N28°01'10"E
5551.16'

17'

225

230

235

240

245

250

29'

R/W

STA 225+86 LT
BASE AGG F.E.

STA 226+17 RT
BASE AGG F.E.

STA 240+23 LT
BASE AGG F.E.

STA 240+40 RT
BASE AGG F.E.

STA 233+38 RT
BASE AGG C.E.

OH

TDS METRO COMM UNDERGROUND TELEPHONE

TDS METRO COMM UNDERGROUND FIBER OPTICS

TDS METRO COMM UNDERGROUND TELEPHONE

CAUTION

AMERICAN TRANSMISSION COMPANY ELECTRIC OVER HEAD

TDS METRO COMM UNDERGROUND FIBER OPTICS

TDS METRO COMM UNDERGROUND TELEPHONE

5

5

CONTROL POINT						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
901	251+90.74	67.69' L	1098.37	164266.93	617655.38	NGS MONUMENT

TDS METRO COMM UNDERGROUND TELEPHONE

TDS METRO COMM UNDERGROUND FIBER OPTICS

SEE PLAN DETAILS FOR CULVERT WORK

SLOPE INTERCEPT (TYP.)

MATCH LINE 251+49.84

COLD SPRINGS ROAD

PT: 254+91.50

CP 901

STA 260+97 LT
BASE AGG F.E.

N

MATCH LINE 281+99.86

STA 281+14 RT
BASE AGG P.E.

255

260

265

N0°21'23"W
7807.99'

270

275

280

29'

17'

R/W

OH

STA 253+66 RT
BASE AGG F.E.

CAUTION

AMERICAN TRANSMISSION COMPANY ELECTRIC OVER HEAD

STA 264+19 RT
BASE AGG P.E.

TDS METRO COMM UNDERGROUND TELEPHONE

TDS METRO COMM UNDERGROUND FIBER OPTICS

ALLISON ROAD

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 82	E

MATCH LINE 281+99.86

MATCH LINE 312+49.86

5

5

N

STA 292+89 LT
BASE AGG P.E.

STA 293+21 LT
BASE AGG P.E.

CAUTION

STA 299+45 LT
BASE AGG F.E.

29'

17'

R/W

285 290 295 N0°21'23"W 300 305 310

7807.99'

XX

NORTHERN NATURAL GAS
GAS

HARPER ROAD

MATCH LINE 312+49.86

MATCH LINE 342+99.86

HOLLOWAY ROAD

DOR MONT STREET

PI: 332+99.49

CHESEBRO LANE

N

CP 902

315 320 N0°21'23"W 325 330 335 N0°55'50"W 340

7807.99'

1321.53'

STA 328+94 RT
BASE AGG F.E.

STA 337+13 RT
ASPHALT P.E.

STA 339+33 RT
ASPHALT P.E.

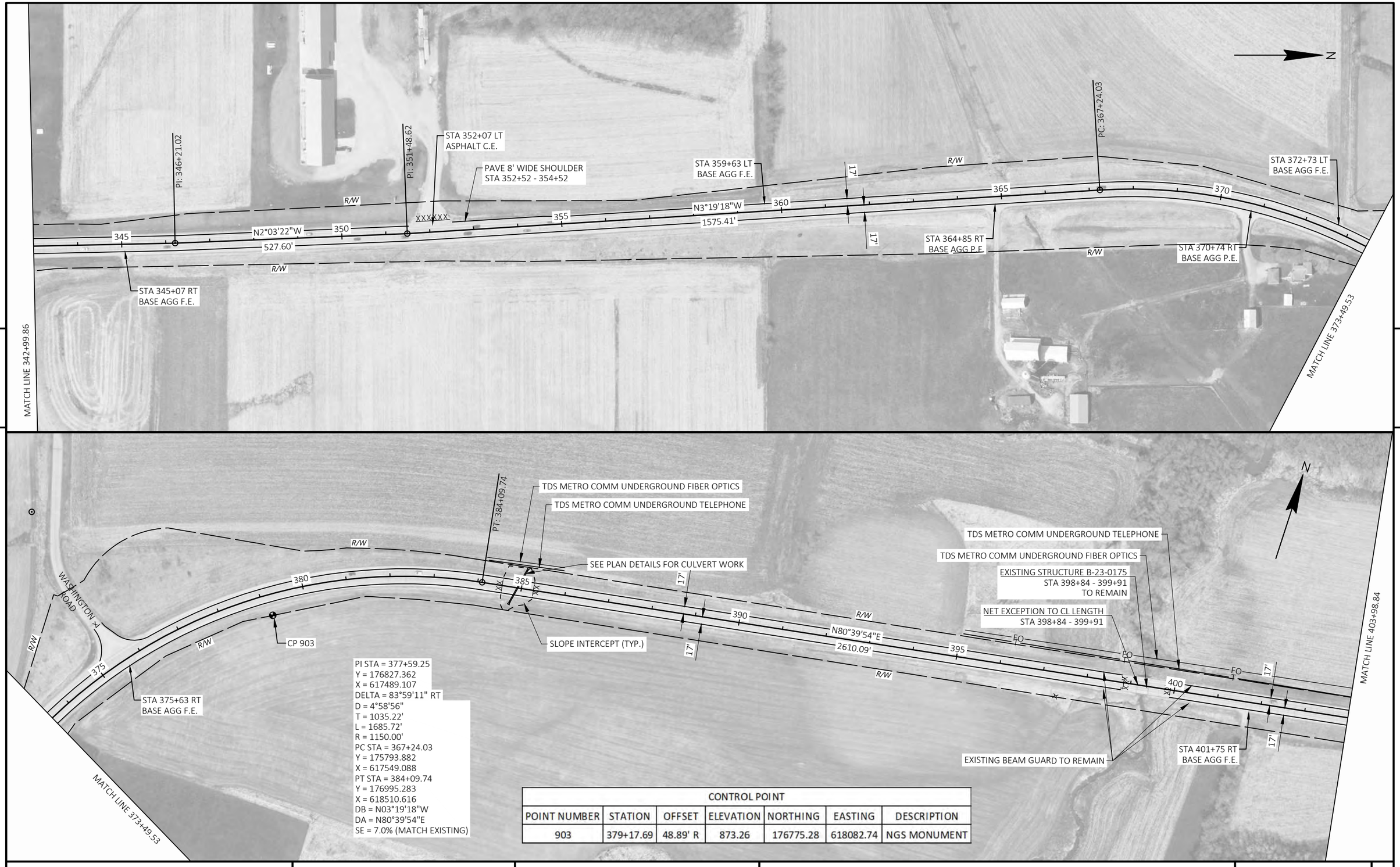
CONTROL POINT						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
902	315+88.35	53.72' L	931.06	170660.93	617637.55	NGS MONUMENT

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 83	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_050201_PN.DWG
LAYOUT NAME - 4 PD

PLOT DATE : 7/8/2025 2:30 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



CONTROL POINT						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
903	379+17.69	48.89' R	873.26	176775.28	618082.74	NGS MONUMENT

MATCH LINE 403+98.84

405

17'

R/W

N80°39'54"E

2610.09'

STA 408+98 LT
BASE AGG F.E.

PC: 410+19.84

410

STA 409+00 RT
BASE AGG F.E.

415

420

PI STA = 426+73.85
Y = 177686.959
X = 622718.248
DELTA = 81°47'00" LT
D = 2°59'59"
T = 1654.01'
L = 2726.31'
R = 1910.00'
PC STA = 410+19.84
Y = 177418.664
X = 621086.144
PT STA = 437+46.15
Y = 179340.653
X = 622685.961
DB = N80°39'54"E
DA = N01°07'07"W
SE = 5.4% (MATCH EXISTING)

STA 423+22 LT
BASE AGG F.E.

R/W

425

R/W

TDS METRO COMM UNDERGROUND TELEPHONE

TDS METRO COMM UNDERGROUND TELEPHONE

TDS METRO COMM UNDERGROUND FIBER OPTICS

SLOPE INTERCEPT (TYP.)

EXISTING STRUCTURE B-23-0151
427+97 - 429+24
TO REMAIN

NET EXCEPTION TO CL LENGTH
427+97 - 429+24

MGS THRIE

+98.4
20.0' L

MGS THRIE

POST 9
+55.5, 20.1' L

MGS 3 K

POST 5
+30.2, 21.1' L

MGS EAT

POST 1
+05, 22.0' L

+03.3
20.0' L

POST 9
+21.9, 20.1' L

MGS 3 K

POST 5
+47.2, 21.1' L

MGS EAT

POST 1
+72.5, 22.0' L

17'

17'

STA 432+81 RT
BASE AGG F.E.

430

POST 1
+16.5, 22.0' R

MGS EAT

POST 5
+91.8, 21.1' R

MGS 3 K

POST 9
+67.1, 20.1' R

MGS THRIE

WE ENERGIES GAS

CAUTION

+25
20.0' R

+14.1
20.0' R

POST 1
+97.8, 22.0' R

MGS THRIE

MGS 3 K

POST 9
+47.2, 20.1' R

POST 5
+22.5, 21.1' R

MGS EAT

GUTZMER ROAD

MATCH LINE 434+49.30

N

5

5

GUARDRAIL LEGEND

MGS 3 K	MGS GUARDRAIL 3 K (SDD 14B42)
MGS EAT	MGS GUARDRAIL TERMINAL EAT (SDD 14B44)
MGS RAD	MGS GUARDRAIL SHORT RADIUS (SDD 14B53)
MGS TERM	MGS GUARDRAIL SHORT RADIUS TERMINAL (SDD 14B53)
MGS THRIE	MGS THRIE BEAM TRANSITION (SDD 14B45)

CONTROL POINT						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
904	443+65.85	46.49' L	846.09	179958.72	622627.06	NGS MONUMENT

MATCH LINE 434+49.30

PT: 437+46.15

CP 904

435

R/W

440

N1°07'07"W

445

1601.83'

R/W

STA 439+80 RT
BASE AGG F.E.

STA 448+79 RT
BASE AGG F.E.

STA 449+82 LT
BASE AGG P.E.

450

17'

17'

PI: 453+47.98

455

N1°50'05"W

460

2068.97'

R/W

R/W

MATCH LINE 464+99.38

N

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 85	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_050201_PN.DWG
LAYOUT NAME - 6 PD

PLOT DATE : 7/8/2025 2:30 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:200 FT

MATCH LINE 464+99.38

MATCH LINE 495+49.38

MATCH LINE 495+49.38

MATCH LINE 525+99.38

5

5

GUARDRAIL LEGEND

MGS 3 K	MGS GUARDRAIL 3 K (SDD 14B42)
MGS EAT	MGS GUARDRAIL TERMINAL EAT (SDD 14B44)
MGS RAD	MGS GUARDRAIL SHORT RADIUS (SDD 14B53)
MGS TERM	MGS GUARDRAIL SHORT RADIUS TERMINAL (SDD 14B53)
MGS THRIE	MGS THRIE BEAM TRANSITION (SDD 14B45)

N

WITTENWYLER ROAD

CEMETARY ROAD

PIERCE ROAD

R/W

17'

PI: 474+16.95

PI: 480+80.29

PI: 492+65.94

SEE PLANS BY OTHERS FOR
STATE PROJECT NUMBER 1690-04-73
STA 466+94 TO STA 494+00

WE ENERGIES GAS

TDS METRO COMM UNDERGROUND TELEPHONE

CAUTION

29'

495

470 475 480 485 490

N1°50'05"W 2068.97'

N1°51'00"W 663.34'

N1°55'57"W 1185.65'

N

POST 9 +91.6, 30.2' L

POST 5 +66.6, 31.1' L

MGS EAT

POST 1 +41.6, 32.0' L

SLOPE INTERCEPT (TYP.)

MGS 3 K

POST 1 +97.7, 25.9' L

POST 5 +72.7, 25.7' L

POST 9 +47.7, 25.6' L

STA 512+65 LT
BASE AGG F.E.

500 505 510 515 520 525

N1°55'43"W 3718.42'

POST 9 +90.6, 20.1' R

POST 1 +40.7, 22.0' R

POST 5 +65.7, 21.0' R

POST 9 +46.9, 20.1' R

POST 5 +71.9, 21.0' R

POST 1 +96.9, 22.0' R

STA 512+59 RT
BASE AGG F.E.

CP 905

WE ENERGIES GAS

CONTROL POINT						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
905	512+32.67	36.37' R	888.91	186824.28	622497.20	NGS MONUMENT

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 86 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_050201_PN.DWG
LAYOUT NAME - 7 PD

PLOT DATE : 7/8/2025 2:31 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:200 FT

MATCH LINE 525+99.38

COUNTY RD C

FO

SPECTRUM COMMUNICATIONS UNDERGROUND FIBER OPTICS

PI: 529+84.36

R/W

N1°55'43"W

3718.42'

530

535

N1°52'19"W

1258.01'

540

SPECTRUM COMMUNICATIONS UNDERGROUND FIBER OPTICS

G

FO

WE ENERGIES GAS

PI: 542+42.37

CAUTION

PC: 545+76.18

N2°00'00"W

333.81'

545

550

555

PI STA = 554+79.47
Y = 191068.052
X = 622317.645
DELTA = 50°16'34" LT
D = 2°58'35"
T = 903.29'
L = 1689.15'
R = 1925.00'
PC STA = 545+76.18
Y = 190165.309
X = 622349.170
PT STA = 562+65.33
Y = 191620.739
X = 621603.170
DB = N02°00'00"W
DA = N52°16'34"W
SE = 3.3% (MATCH EXISTING)

N

MATCH LINE 556+49.67

VILLAGE OF MONTICELLO WATER MAIN
MONTICELLO SEWER
ALLIANT ENERGY OVER HEAD ELECTRIC

STA 551+13 LT
ASPHALT C.E.

SEE PLANS BY OTHERS FOR
STATE PROJECT NUMBER 1690-04-73
STA 524+09.68 TO STA 546+63

MONTESIAN LAKE

URBAN ROAD

LAKE AVENUE

16.5'

17.5'

22.5'

30.5'

COATES AVENUE

MATCH LINE 556+49.67

WASHINGTON ROAD

ALLIANT ENERGY UNDERGROUND ELECTRIC

ALLIANT ENERGY OVERHEAD ELECTRIC

STA 561+61 LT
ASPHALT C.E.

HO

PT: 562+65.33

560

565

17'

STA 567+31 LT
BASE AGG C.E.

N52°16'34"W

900.68'

570

575

580

585

PC: 571+66.01

CP 906

STA 578+55 RT
BASE AGG F.E.

PI STA = 584+89
Y = 192966.557
X = 619863.392
DELTA = 12°46'40" RT
D = 0°29'38"
T = 1298.87'
L = 2586.97'
R = 11600.00'
PC STA = 571+66.01
Y = 192171.830
X = 620890.759
PT STA = 597+52.98
Y = 193968.826
X = 619037.238
DB = N52°16'34"W
DA = N39°29'53"W
SE = 1.4% (MATCH EXISTING)

MATCH LINE 586+99.40

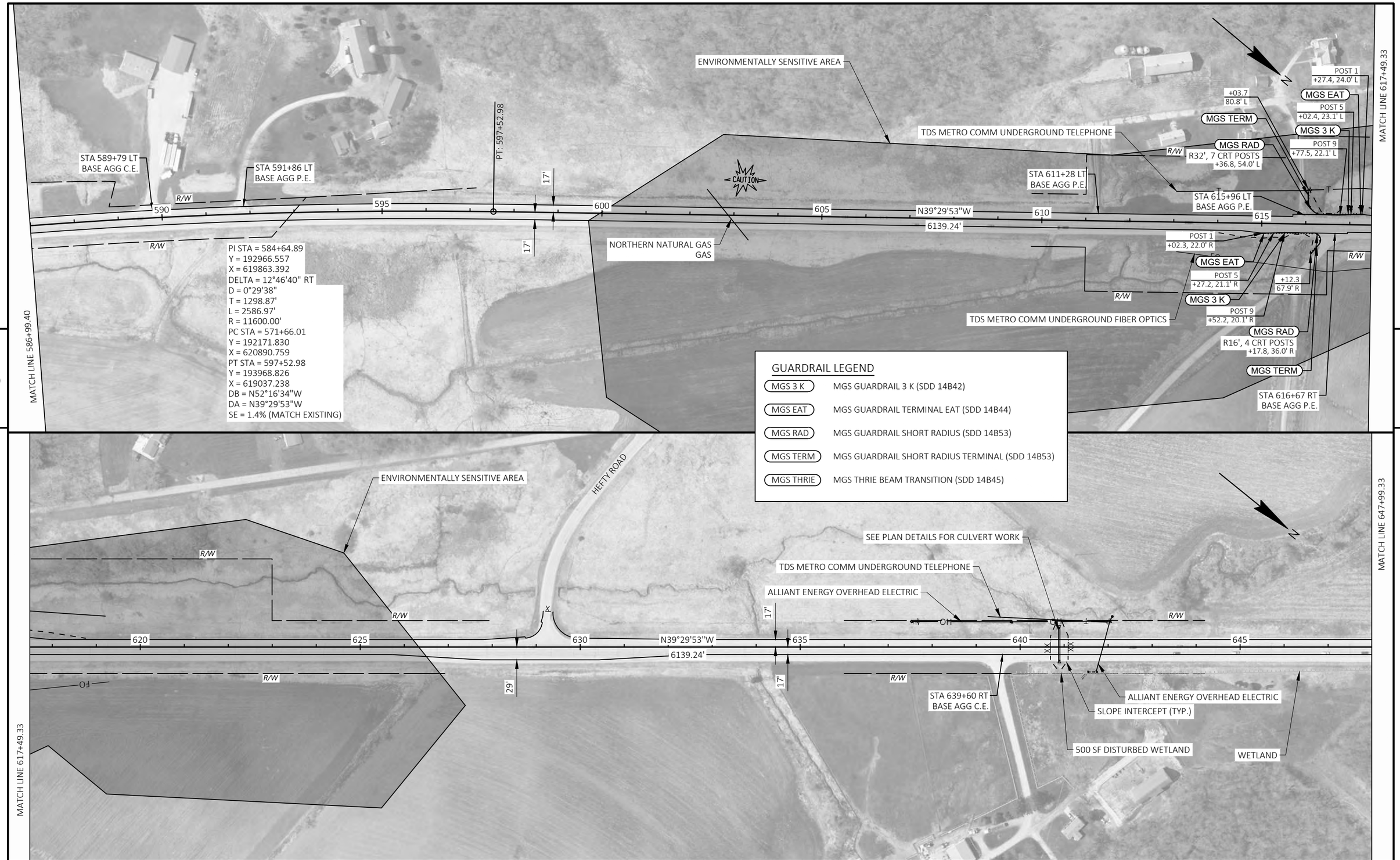
CONTROL POINT						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
906	567+08.75	42.48'	843.26	191925.9	621279.44	NGS MONUMENT

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 87	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_050201_PN.DWG
LAYOUT NAME - 8 PD

PLOT DATE : 7/8/2025 2:31 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 88	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_050201_PN.DWG
LAYOUT NAME - 9 PD
PLOT DATE : 7/8/2025 2:31 PM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

5

5

MATCH LINE 647+99.33

MATCH LINE 678+50.13

MATCH LINE 678+50.13

MATCH LINE 709+00.14

GUARDRAIL LEGEND

MGS 3 K	MGS GUARDRAIL 3 K (SDD 14B42)
MGS EAT	MGS GUARDRAIL TERMINAL EAT (SDD 14B44)
MGS RAD	MGS GUARDRAIL SHORT RADIUS (SDD 14B53)
MGS TERM	MGS GUARDRAIL SHORT RADIUS TERMINAL (SDD 14B53)
MGS THRIE	MGS THRIE BEAM TRANSITION (SDD 14B45)

STA 657+17 LT
BASE AGG F.E.

PC: 658+92.22

650 655 660 665 670 675

17' 17'

N39°29'53"W
6139.24'

N0°52'54"E
632.66'

R/W

OH

STA 658+27 RT
BASE AGG P.E.

STA 666+52 RT
BASE AGG P.E.

PT: 675+30.79

STA 678+16 LT
BASE AGG F.E.

STA 674+64 LT
BASE AGG F.E.

STA 678+10 RT
BASE AGG P.E.

WETLAND

ALLIANT ENERGY OVERHEAD ELECTRIC

PI STA = 667+47.19
Y = 199365.868
X = 614588.546
DELTA = 40°22'47" RT
D = 2°27'52"
T = 854.97'
L = 1638.57'
R = 2325.00'
PC STA = 658+92.22
Y = 198706.137
X = 615132.352
PT STA = 675+30.79
Y = 200220.735
X = 614601.701
DB = N39°29'53"W
DA = N00°52'54"E
SE = 4.7% (MATCH EXISTING)

N

PI: 681+63.45

680 685 690 695 700 705

N0°54'40"E
3035.63'

17' 17'

29'

R/W

SLOPE INTERCEPT (TYP.)

TDS METRO COMM UNDERGROUND FIBER OPTICS

TDS METRO COMM UNDERGROUND TELEPHONE

SEE PLAN DETAILS FOR CULVERT WORK

POST 5
+44.2, 31.1' L

MGS EAT

POST 1
+19.3, 32.0' L

POST 9
+69.2, 30.1' L

MGS 3 K

T FO

STA 693+31 RT
BASE AGG C.E.

CP 908

SEE PLAN DETAILS FOR CULVERT WORK

STA 707+48 RT
BASE AGG F.E.

N

CONTROL POINT						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
908	699+03.65	71.76' R	974.95	202592.30	614710.82	NGS MONUMENT

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 89 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_050201_PN.DWG
LAYOUT NAME - 10 PD

PLOT DATE : 7/8/2025 2:31 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

MATCH LINE 709+00.14

MGS 3 K

MGS EAT

TDS METRO COMM UNDERGROUND TELEPHONE

TDS METRO COMM UNDERRGROUND FIBER OPTICS

PC: 711+99.09

T

FO

T

710

N0°54'40"E

3035.63'

POST 1
+88.4, 32.0' L

POST 9
+38.2, 30.1' L

POST 5
+63.3, 31.1' L

29'

R/W

35'

715

720

725

730

735

29'

28'

29'

CTH NN

XX

XX

XX

EXETER CROSSING ROAD

R/W

VALLEY VIEW ROAD

PI STA = 725+01.99
Y = 205191.316
X = 614680.417
DELTA = 24°54'21" LT
D = 0°58'16"
T = 1302.91'
L = 2564.65'
R = 5900.00'
PC STA = 711+99.09
Y = 203888.574
X = 614659.701
PT STA = 737+63.74
Y = 206381.629
X = 614150.587
DB = N00°54'40"E
DA = N23°59'41"W
SE = 2.3% (MATCH EXISTING)

SEE PLAN DETAILS FOR CULVERT WORK

TDS METRO COMM UNDERRGROUND FIBER OPTICS

PT: 737+63.74

POST 1
+35.9, 26.0' R

POST 5
+10.9, 24.8' R

POST 9
+85.9, 23.6' R

MGS EAT

MGS 3 K

POST 9
+20, 28.3' R

POST 1
+70.4, 31.7' R

POST 5
+95.2, 30.0' R

MGS EAT

MATCH LINE 739+49.91

GUARDRAIL LEGEND

MGS 3 K	MGS GUARDRAIL 3 K (SDD 14B42)
MGS EAT	MGS GUARDRAIL TERMINAL EAT (SDD 14B44)
MGS RAD	MGS GUARDRAIL SHORT RADIUS (SDD 14B53)
MGS TERM	MGS GUARDRAIL SHORT RADIUS TERMINAL (SDD 14B53)
MGS THRIE	MGS THRIE BEAM TRANSITION (SDD 14B45)

PC: 745+32.44

R/W

29'

740

N23°59'41"W

768.70'

745

750

755

760

765

17'

R/W

R/W

R/W

XX

STA 741+57 RT
ASPHALT C.E.

PI STA = 757+25.53
Y = 208173.885
X = 613352.822
DELTA = 23°44'43" RT
D = 1°00'35"
T = 1193.08'
L = 2351.92'
R = 5675.00'
PC STA = 745+32.44
Y = 207083.902
X = 613837.993
PT STA = 768+84.36
Y = 209366.958
X = 613347.631
DB = N23°59'41"W
DA = N00°14'58"W
SE = 3.5% (MATCH EXISTING)

COW PATH LANE

END PROJECT
STA 763+95.26
Y = 208878.253
X = 613367.446

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	PLAN SHEET	SHEET 90 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_050201_PN.DWG
LAYOUT NAME - 11 PD

PLOT DATE : 7/8/2025 2:31 PM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

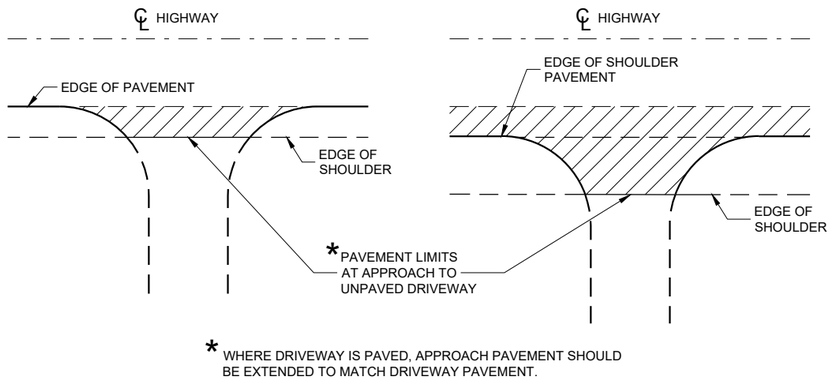
Standard Detail Drawing List

08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A10-03A	SHOULDER RUMBLE STRIPS - ASPHALT
13A10-03G	SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS
13A10-03H	SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES
13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-04A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-06A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06D	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06E	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06F	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06G	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B53-03A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-16B	PAVEMENT MARKING WORDS
15C07-16C	PAVEMENT MARKING ARROWS
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-24C	PAVEMENT MARKING (TURN LANES)
15C08-24D	PAVEMENT MARKING (TURN LANES)
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

Standard Detail Drawing List

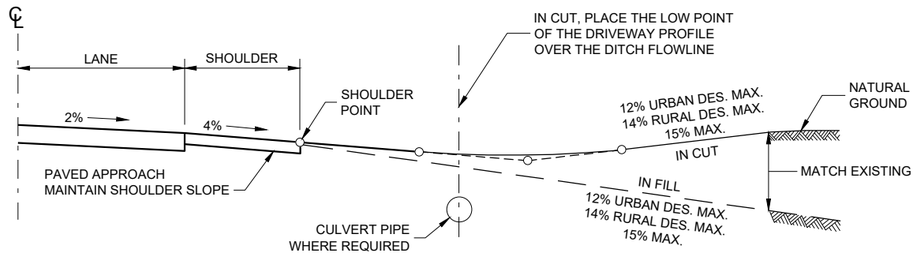
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15C19-10A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15C35-06B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-06C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D39-03	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY



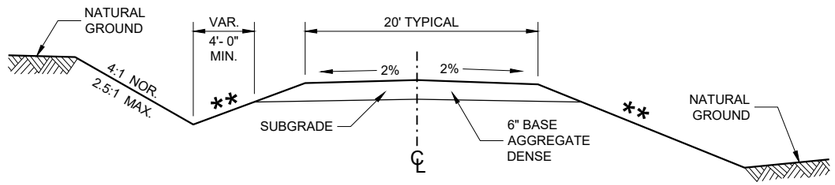
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

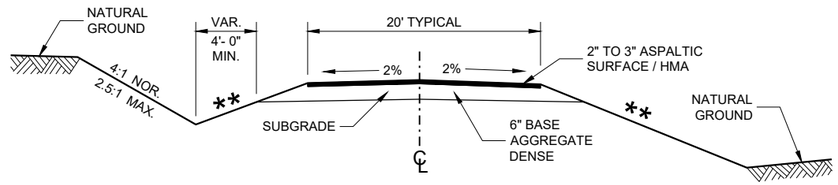


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

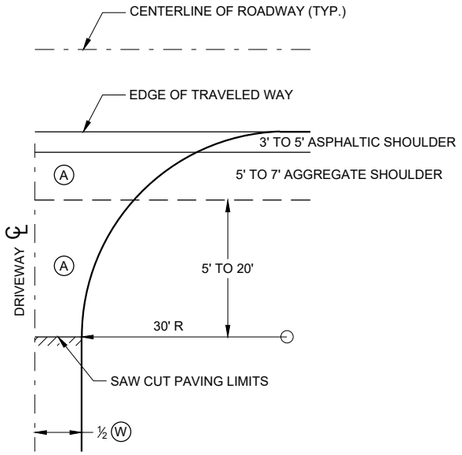
FHWA

6

SDD 08D21 - 01

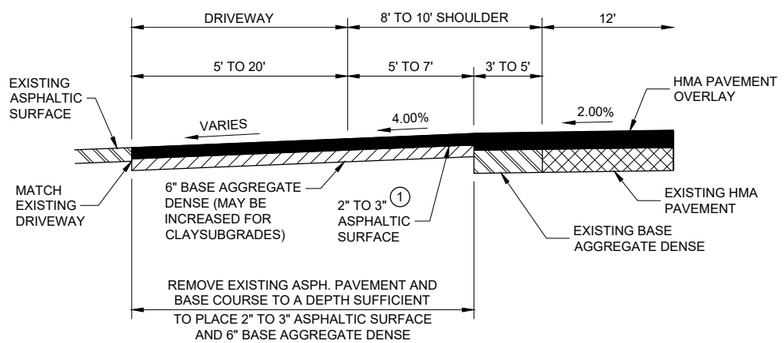
GENERAL NOTES

(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PLAN VIEW

HALF SECTION



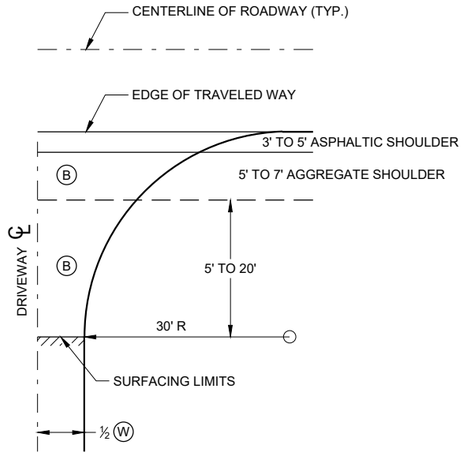
PROFILE VIEW

RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS

(A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)

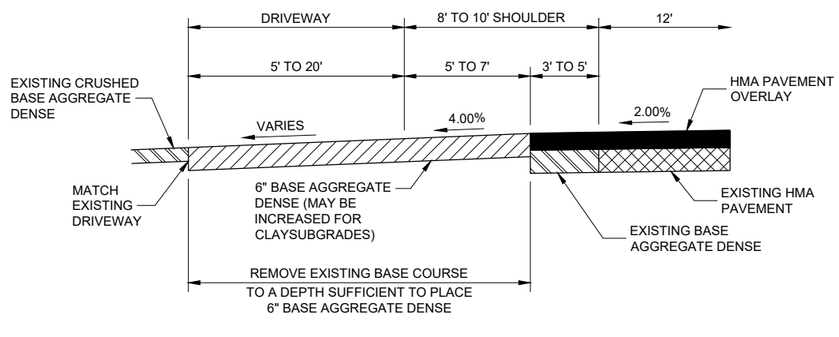
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

(W) : DRIVEWAY WIDTH 16' MIN. - 24' MAX.



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE
WITH AGGREGATE SURFACE
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

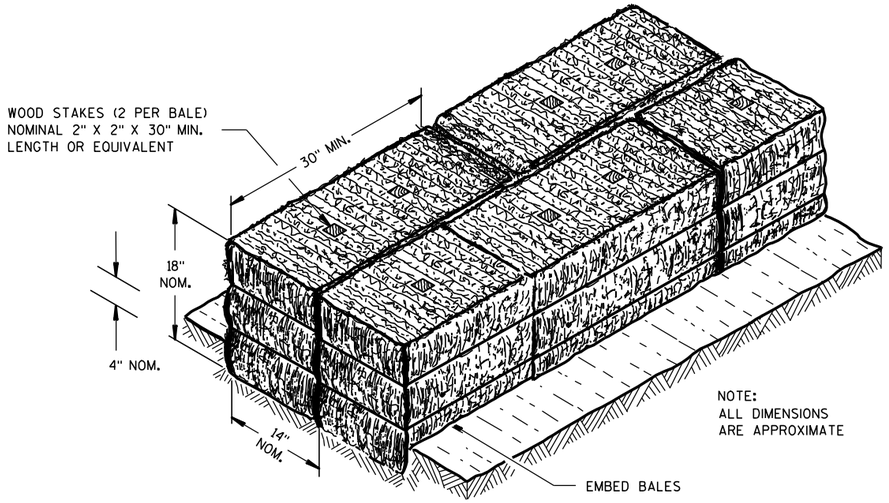
DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

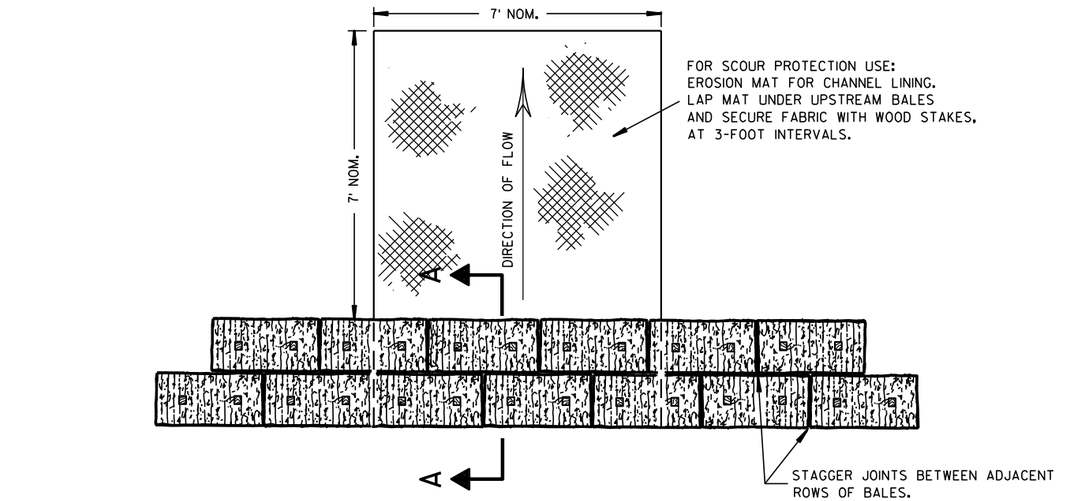
APPROVED
December 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

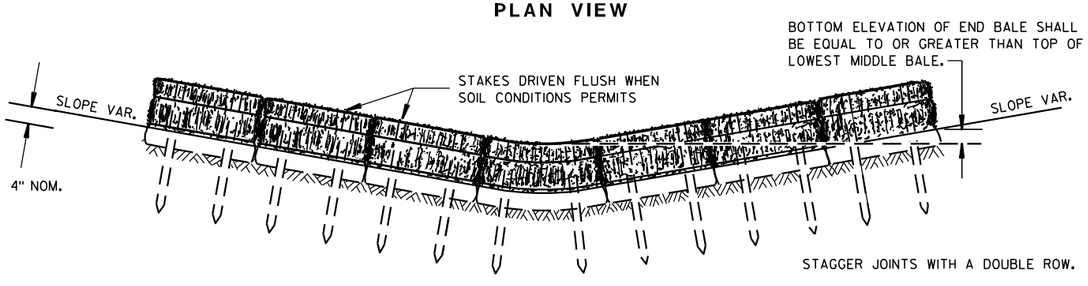
SDD 08D22 - 01



SECTION A-A



PLAN VIEW



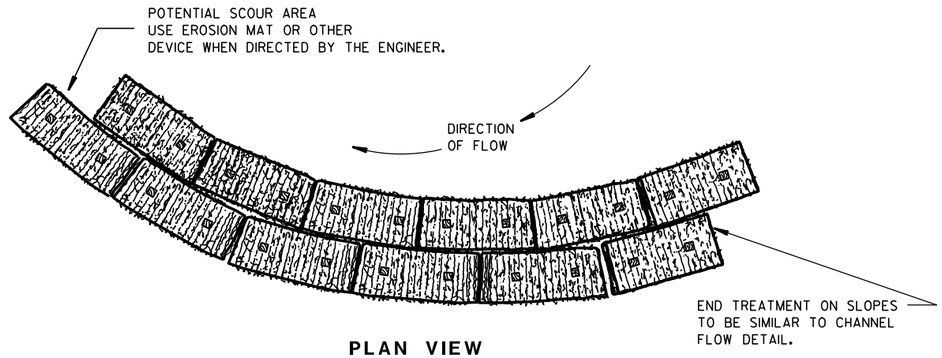
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

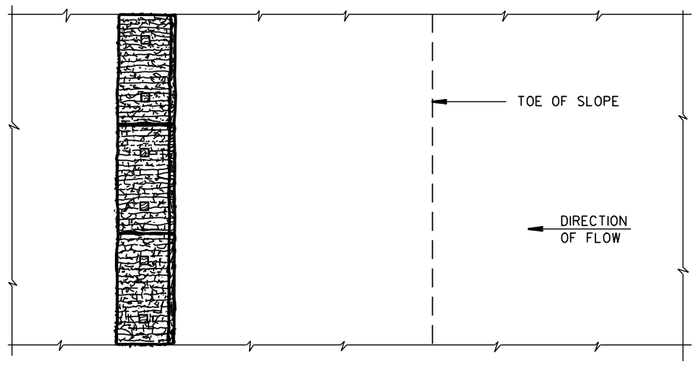
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

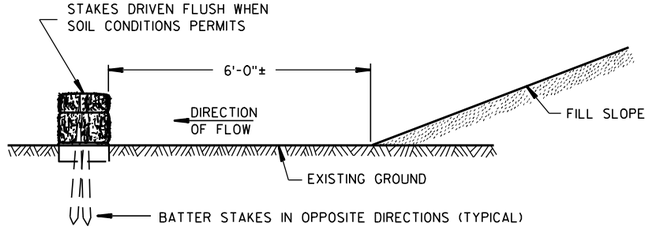


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

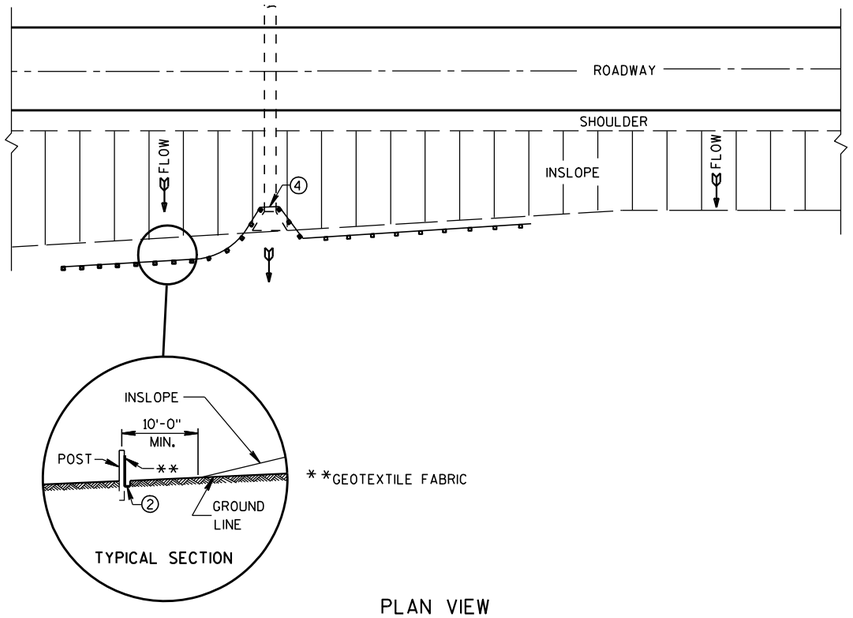
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

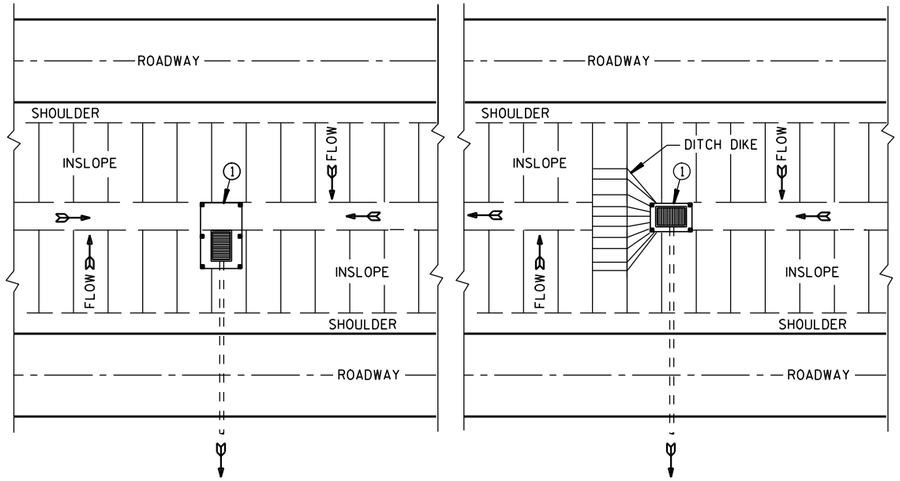
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



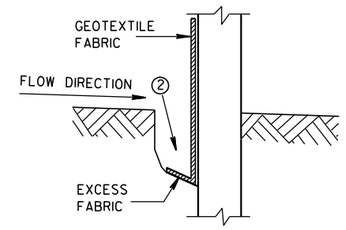
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

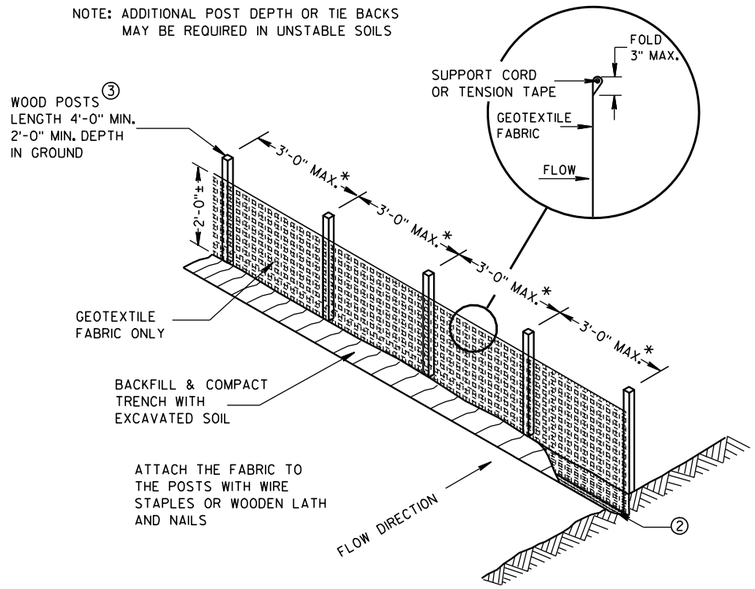
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

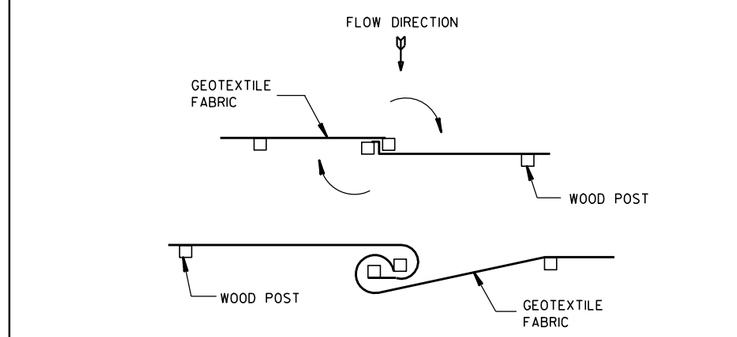


TRENCH DETAIL

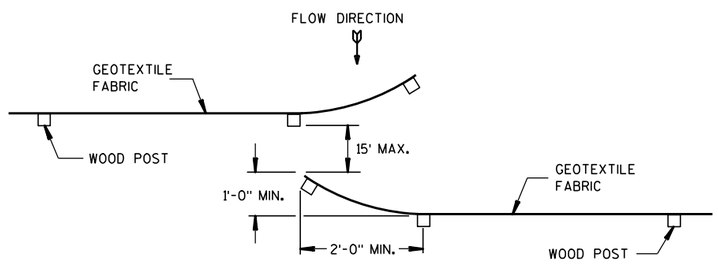


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

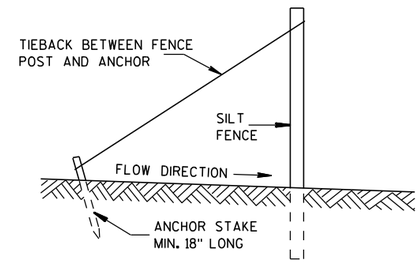


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

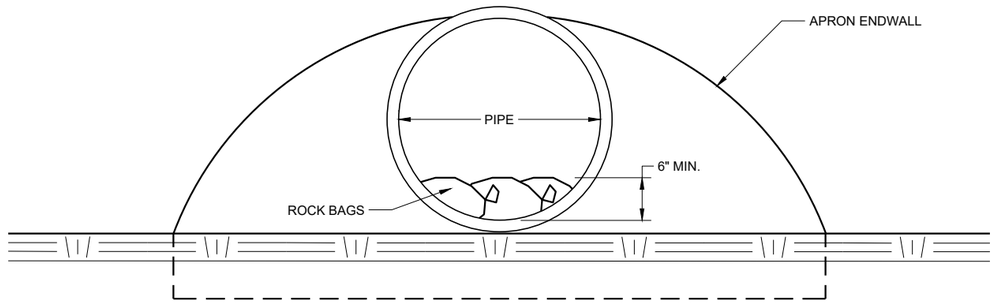
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

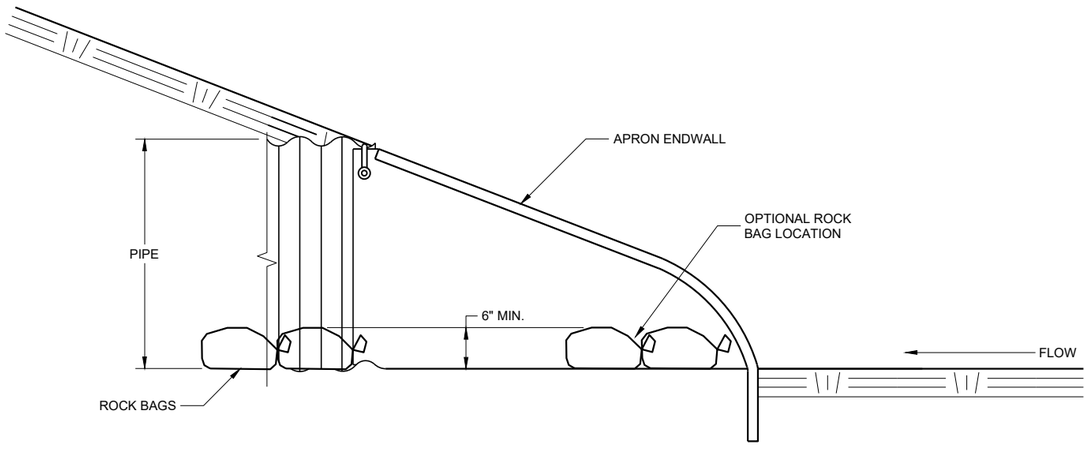
S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGI
FHWA	

6

SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

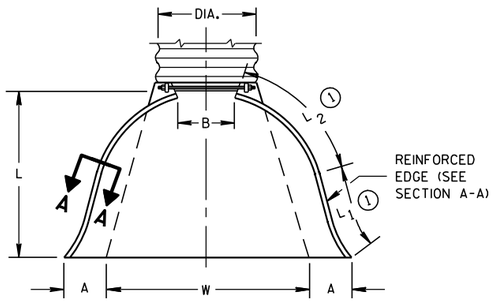
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

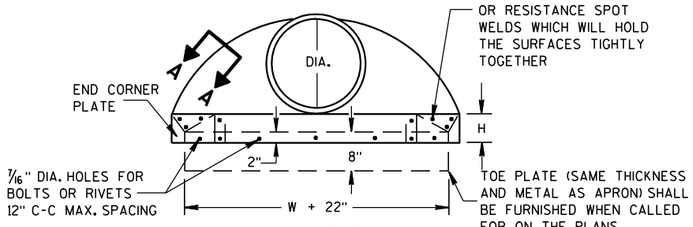
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

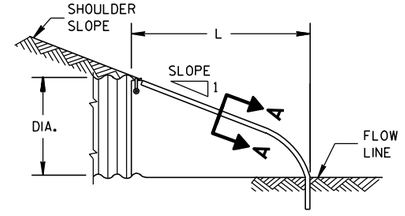
*MINIMUM
**MAXIMUM



PLAN VIEW

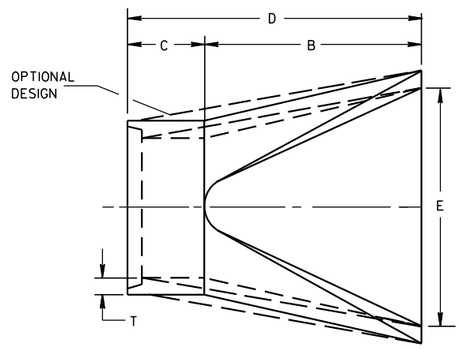


END VIEW

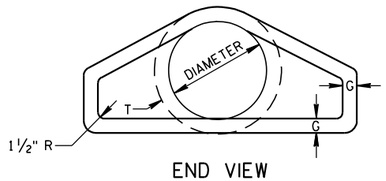


SIDE ELEVATION

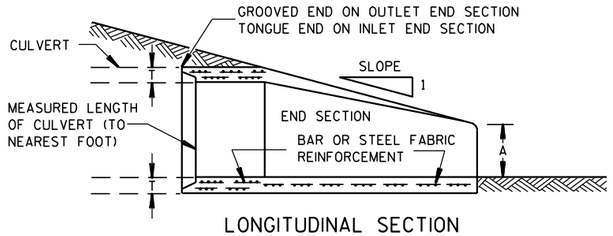
METAL ENDWALLS



PLAN

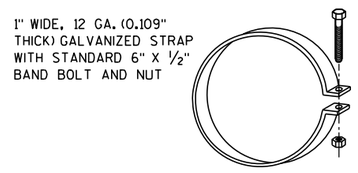


END VIEW



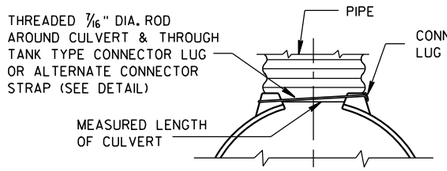
LONGITUDINAL SECTION

CONCRETE ENDWALLS

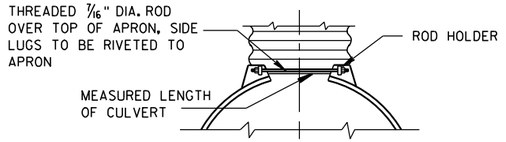


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

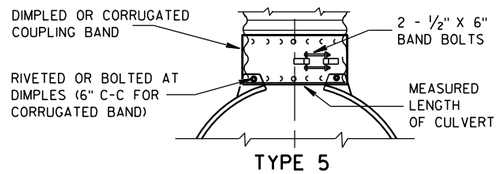


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

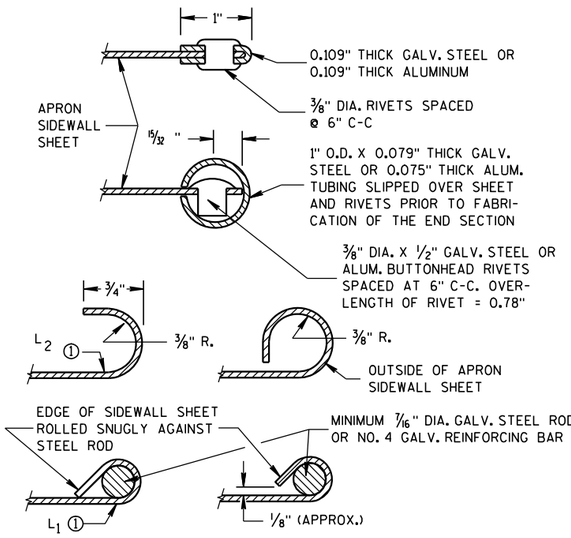
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

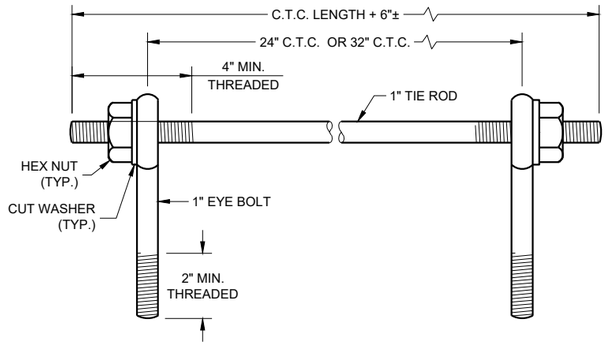
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

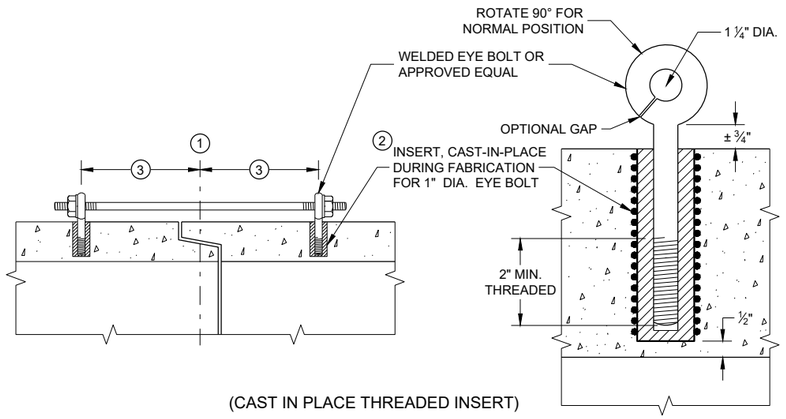
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

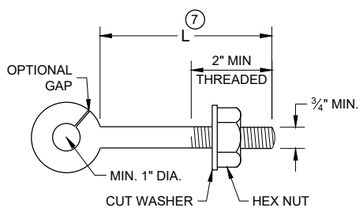
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

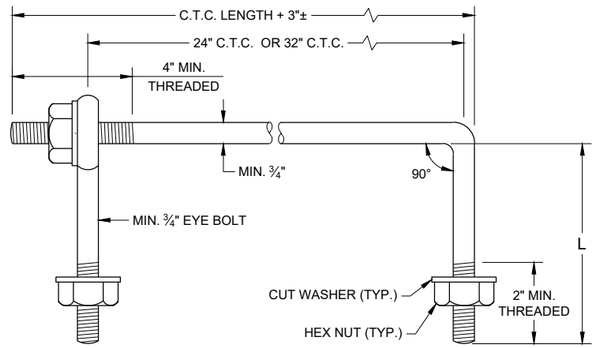
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

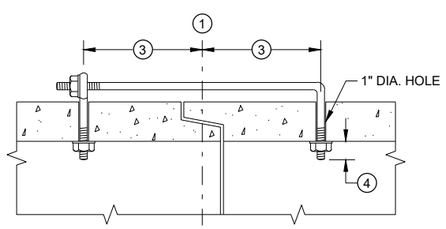


EYE BOLT (7)

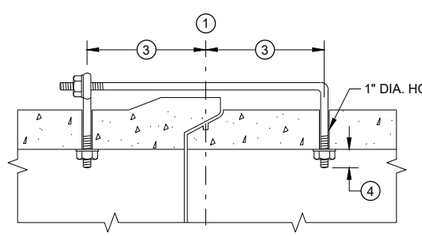
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

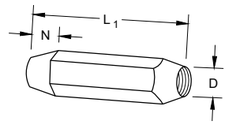
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

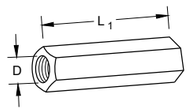
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



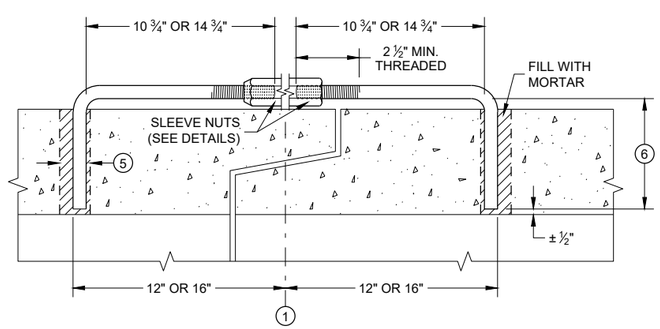
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PLAIN

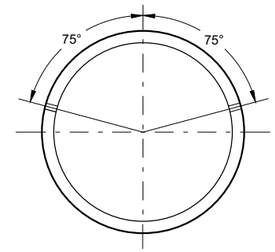
RIGHT AND LEFT THREADS

SLEEVE NUTS



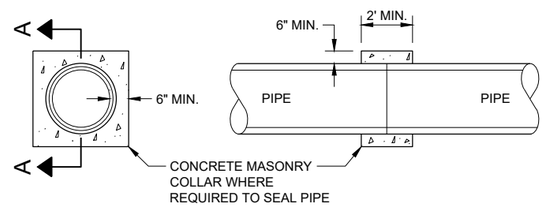
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

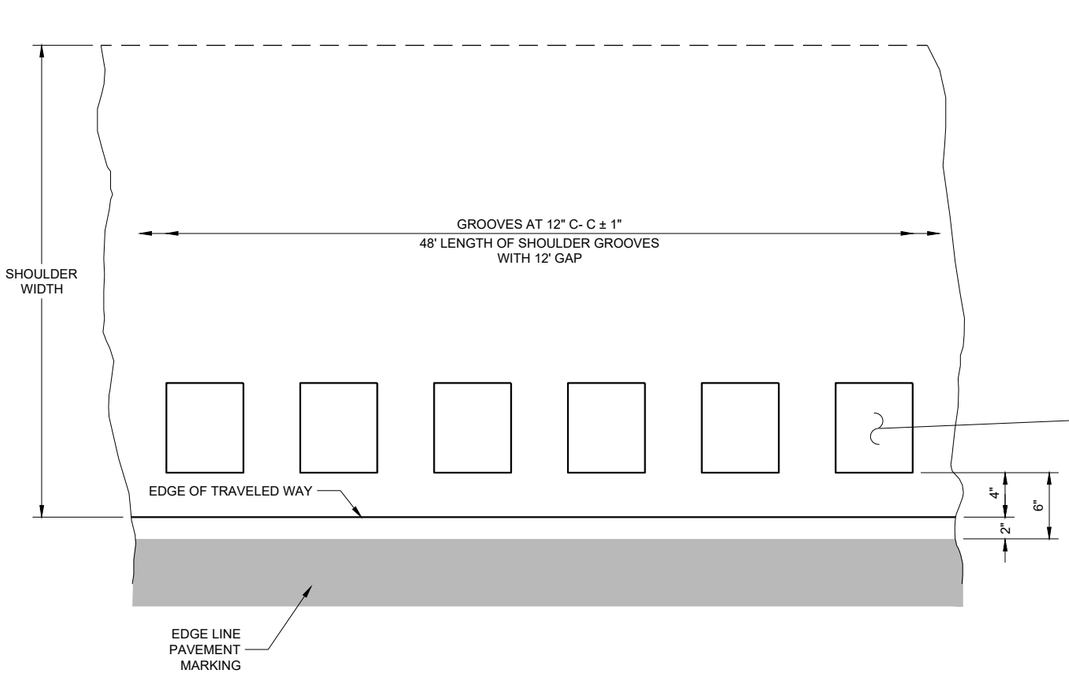
APPROVED
November 2021
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

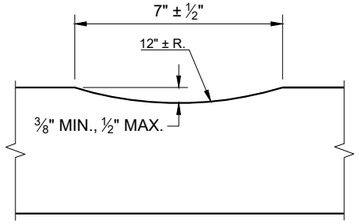
FHWA

SDD 08F04 - 08

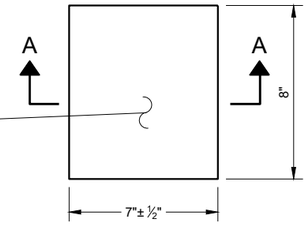
SDD 08F04 - 08



PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A

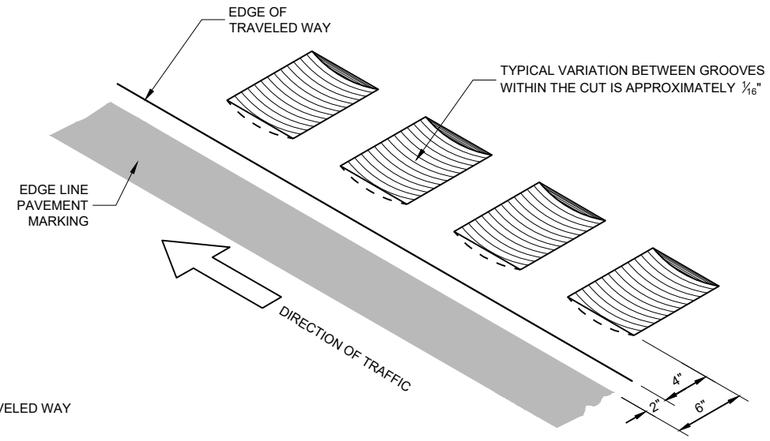


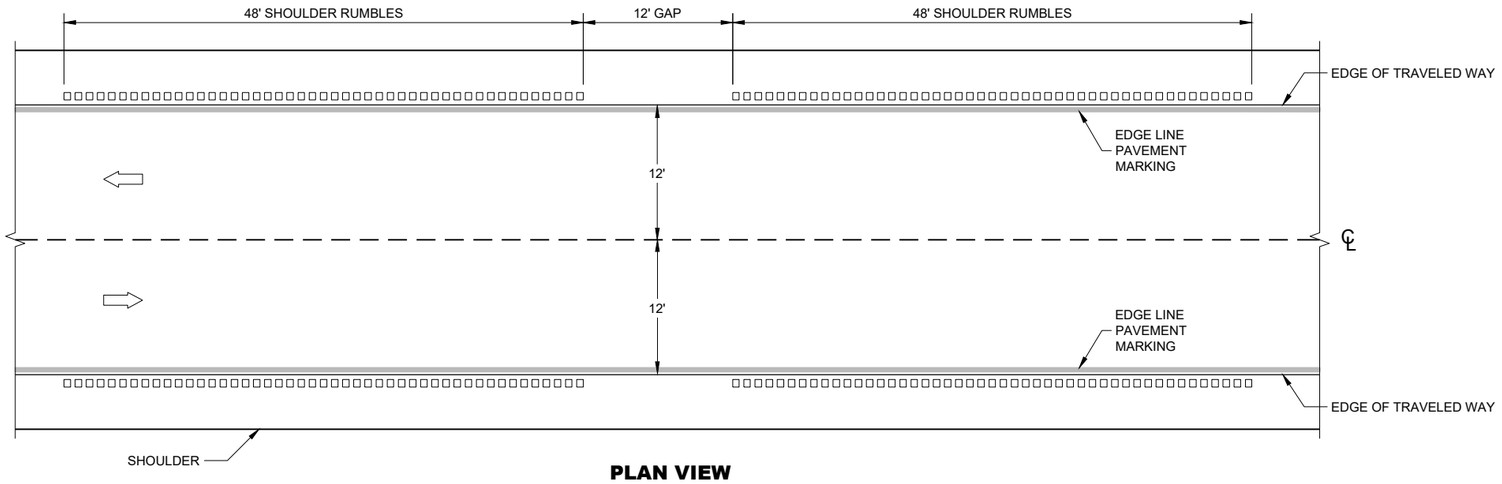
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.





PLAN VIEW

SHOULDER RUMBLE STRIPS - ASPHALT

6

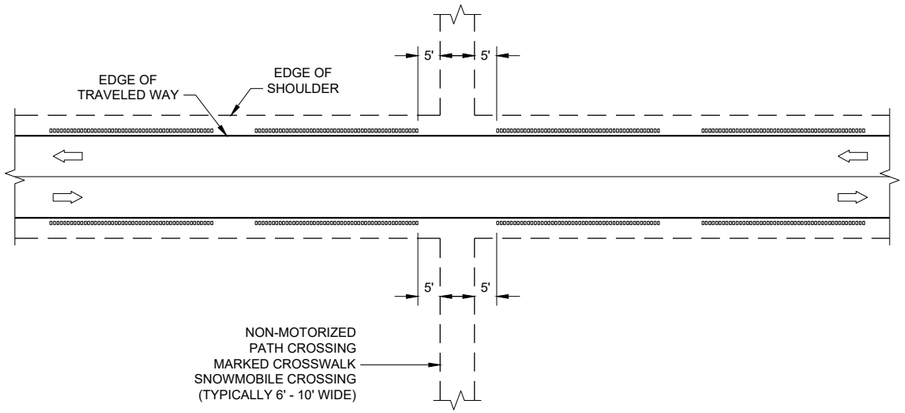
SDD 13A10 - 03a

SHOULDER RUMBLE STRIPS ASPHALT

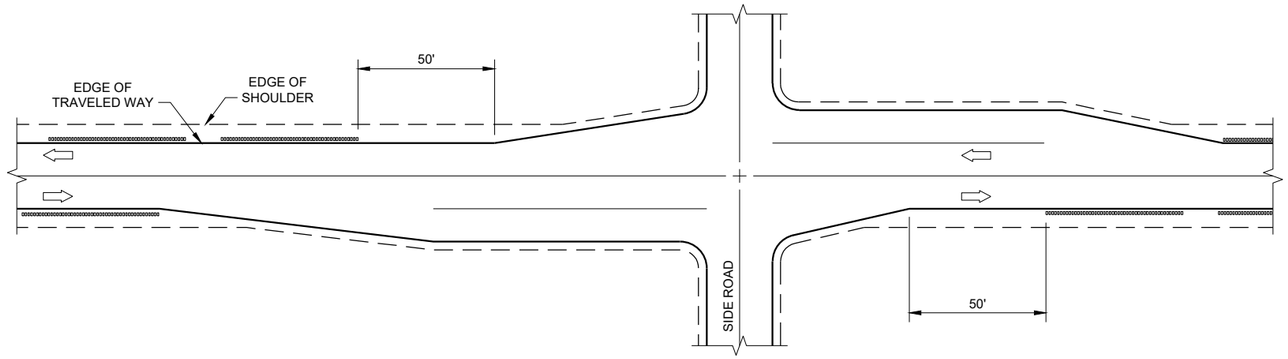
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

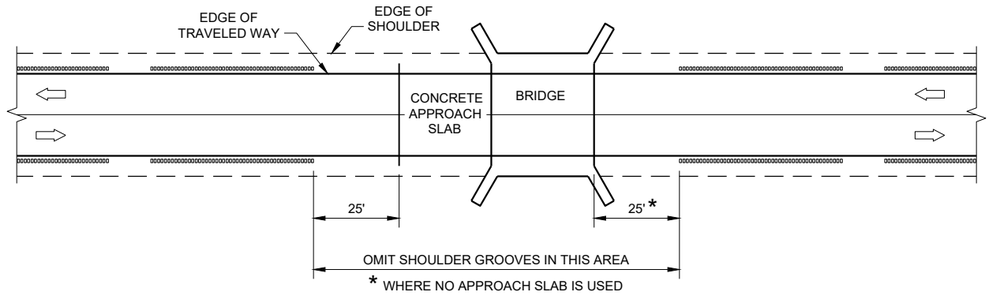
SDD 13A10 - 03a



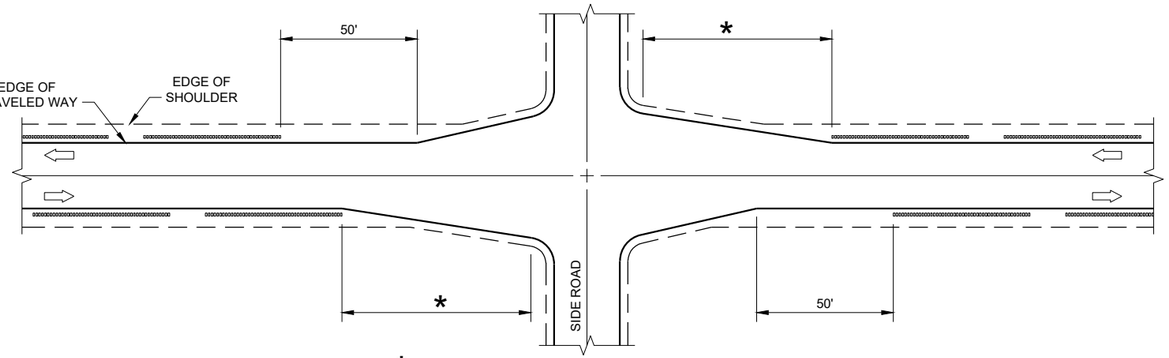
GROOVES AT MISCELLANEOUS CROSSINGS



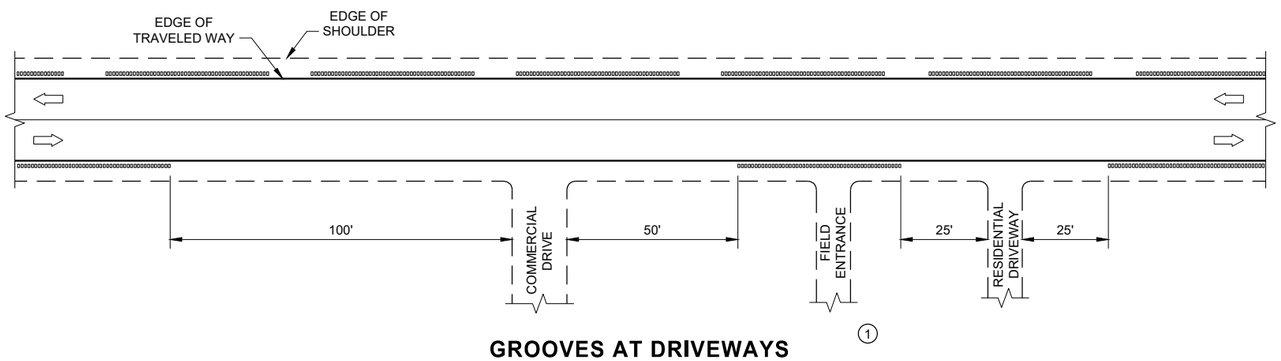
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

GENERAL NOTES

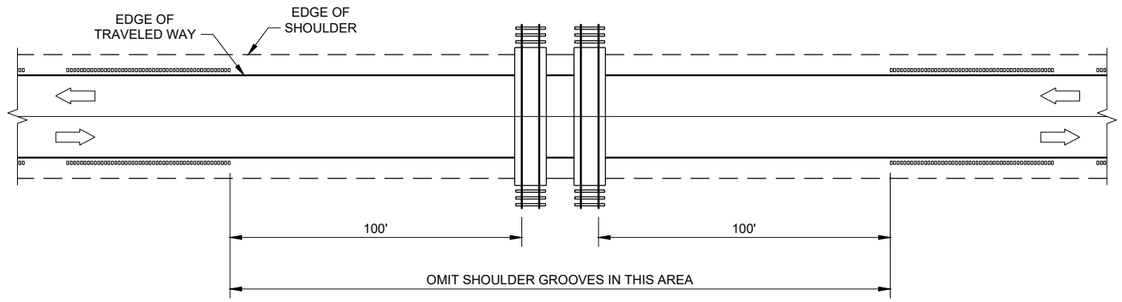
① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

SHOULDER AND EDGE LINE RUMBLE STRIPS CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS

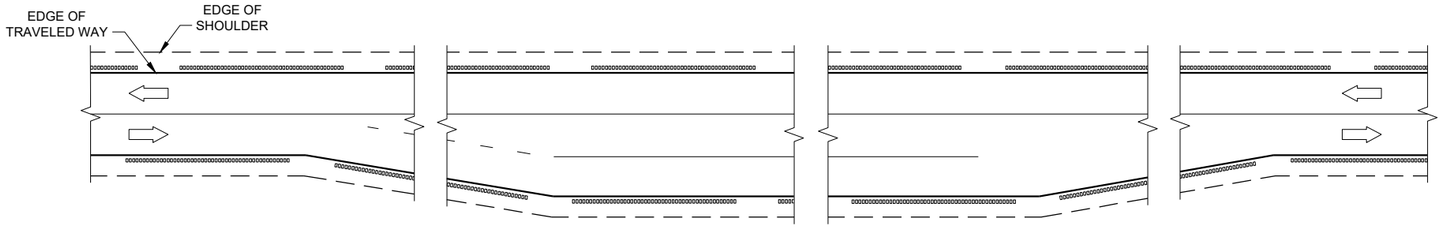
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

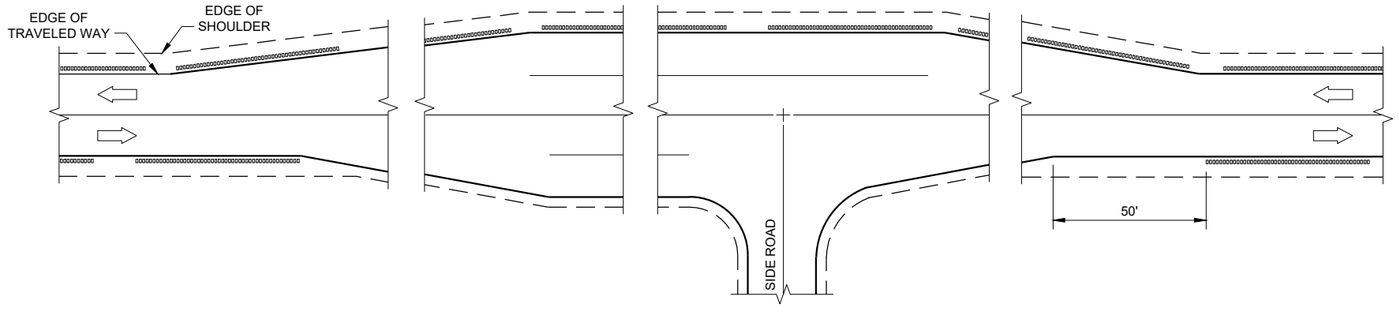
SDD 13A10 - 03g



GROOVES AT RAILROADS



GROOVES AT PASSING AND CLIMBING LANES



GROOVES AT BYPASS LANES

6

SDD 13A10 - 03h

SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

/S/ John Jenkins
ROADWAY STANDARDS DEVE ENGINEER

FHWA

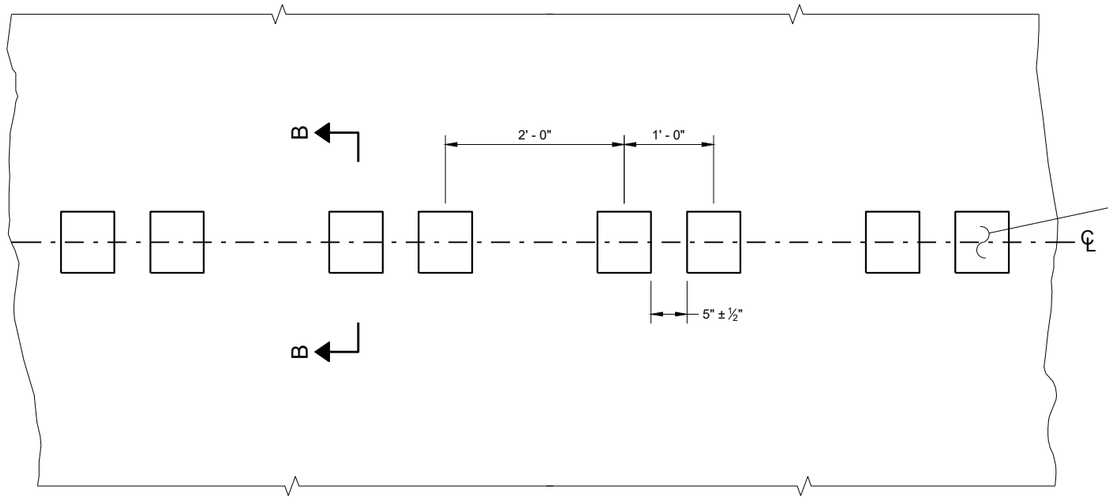
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SDD 13A10 - 03h

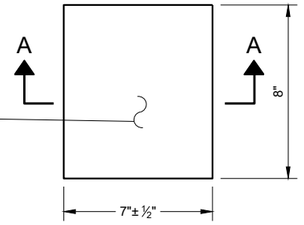
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A11 SHEETS "d" AND "e".

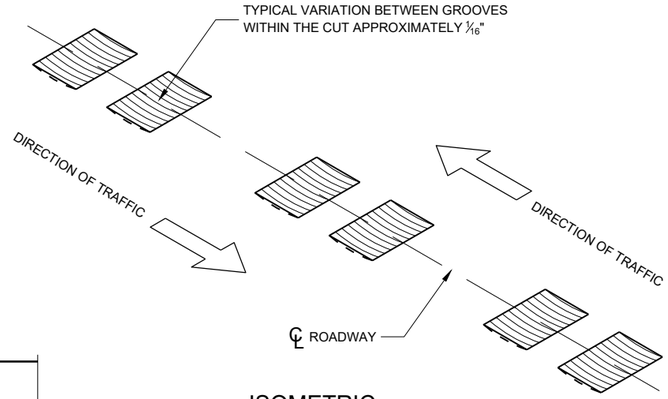
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



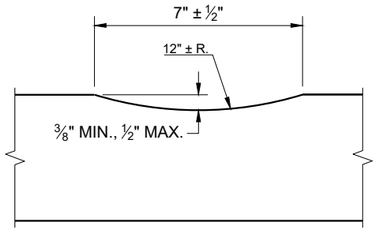
PLAN DETAIL VIEW



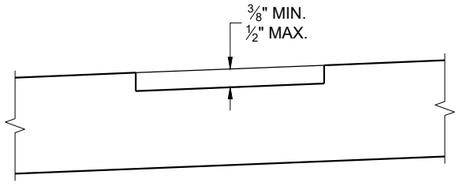
PLAN VIEW
(SINGLE GROOVE)



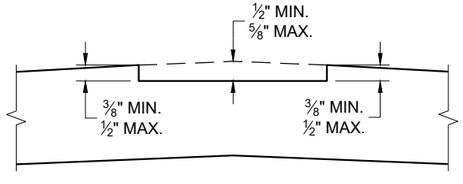
ISOMETRIC



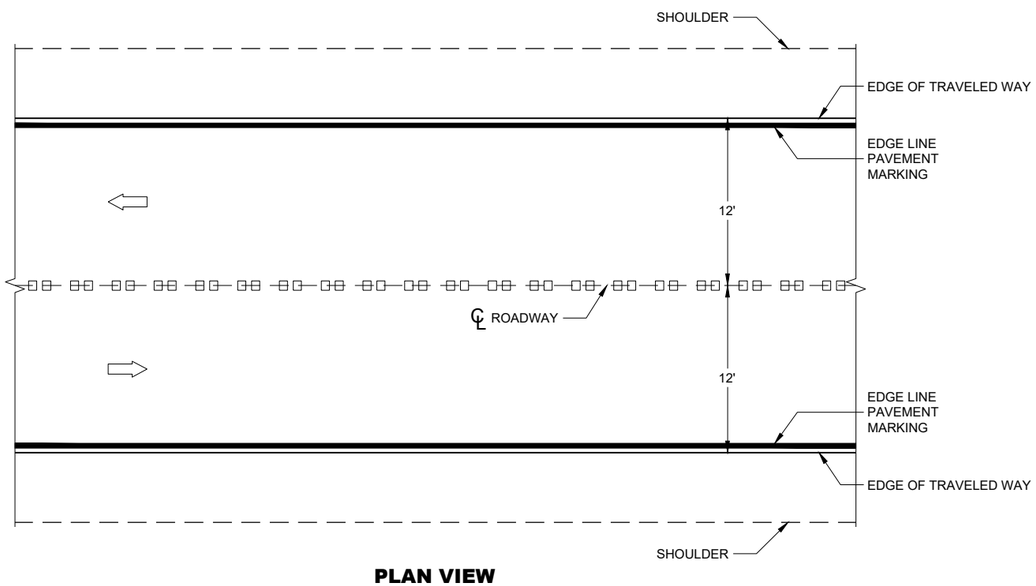
SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



PLAN VIEW

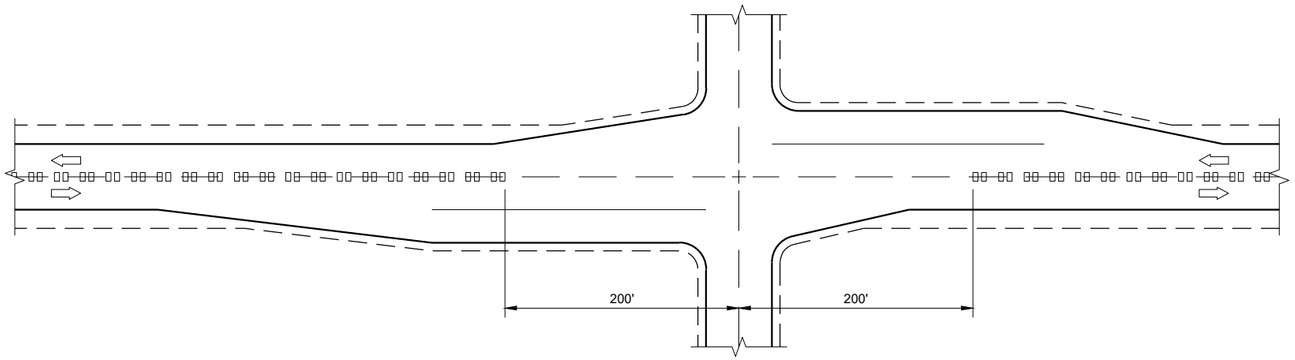
CENTERLINE RUMBLE STRIPS - ASPHALT

CENTERLINE RUMBLE STRIPS - ASPHALT

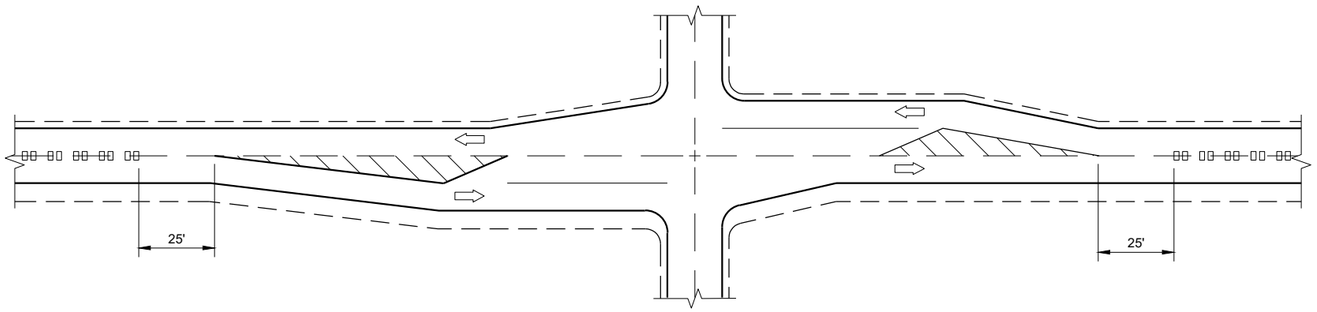
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

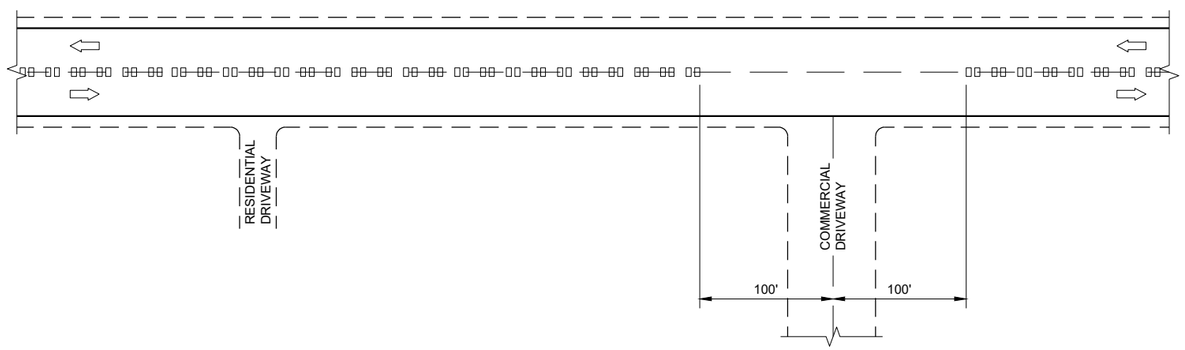
SDD 13A11 - 04a



CENTERLINE GROOVES AT INTERSECTIONS



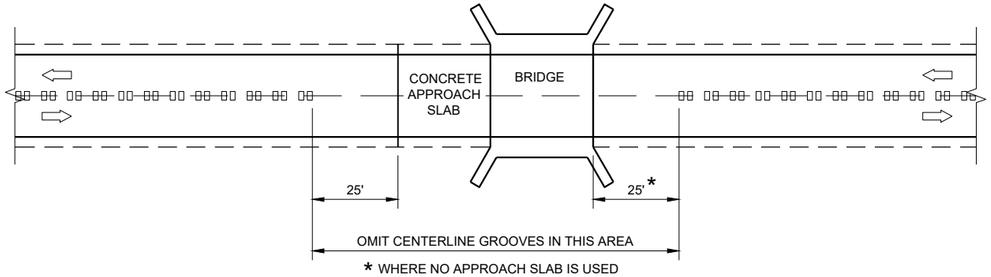
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



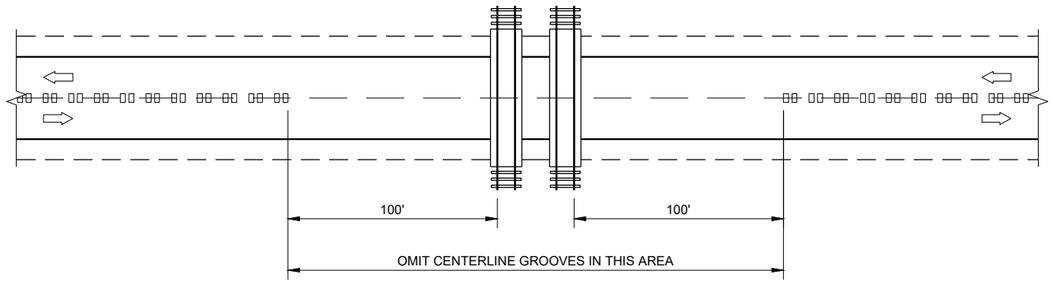
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS

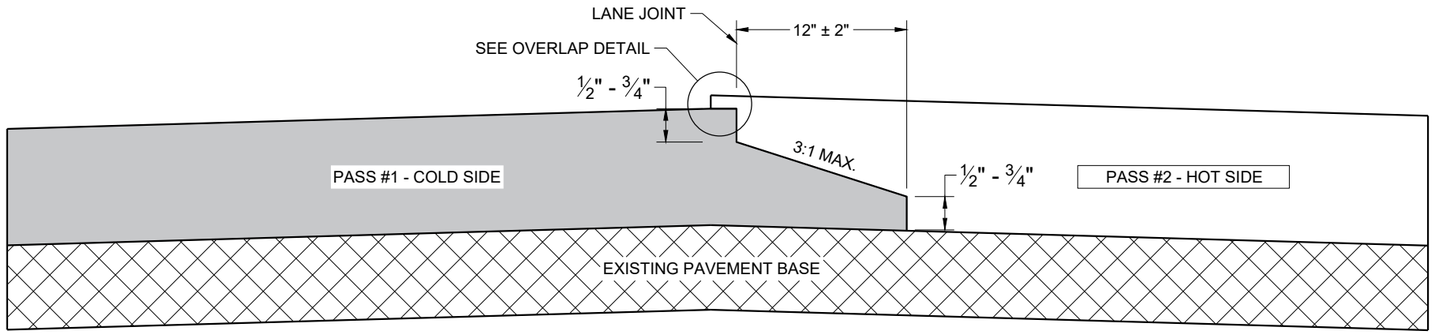
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER

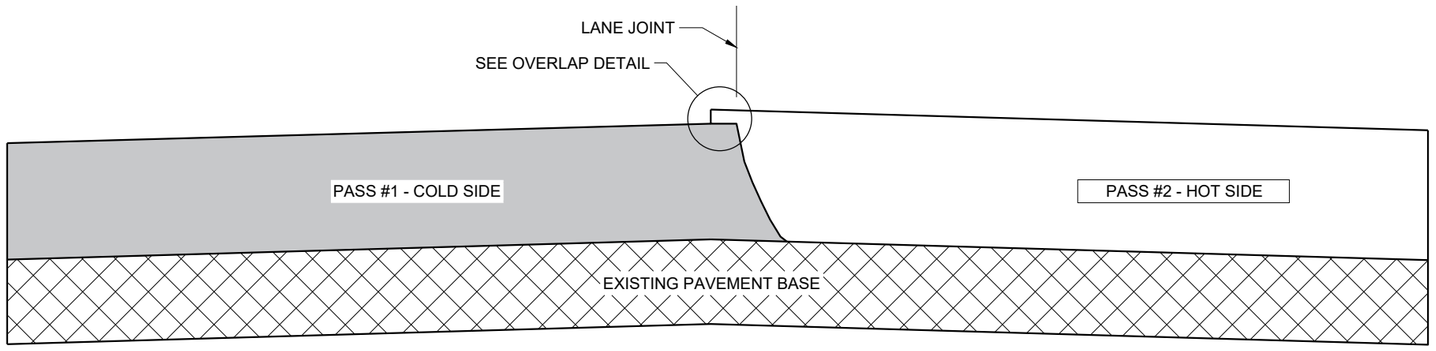
FHWA

6

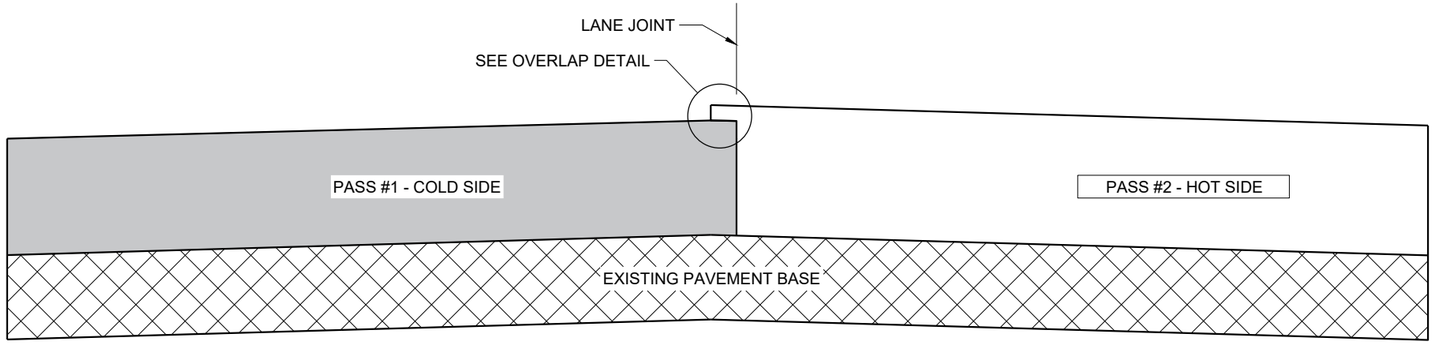
SDD 13A11 - 04d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

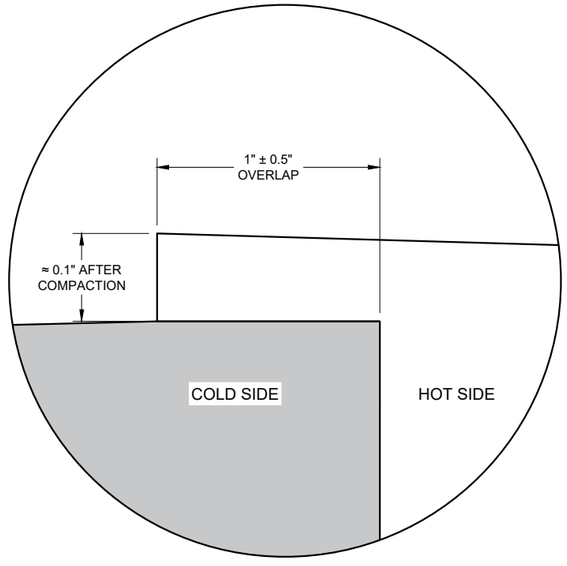
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

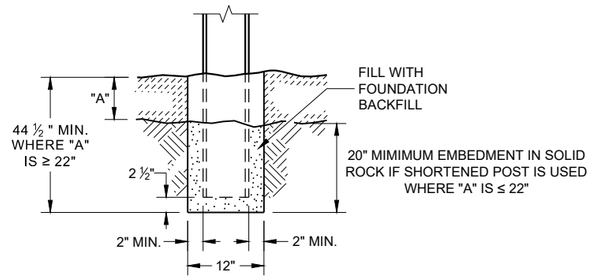
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

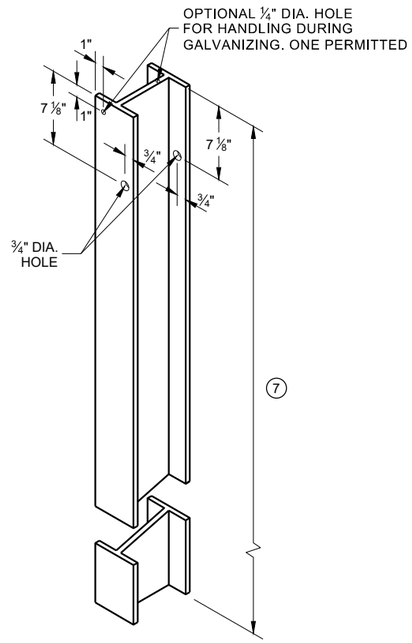
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

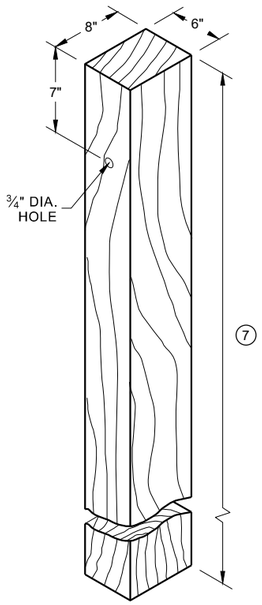
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



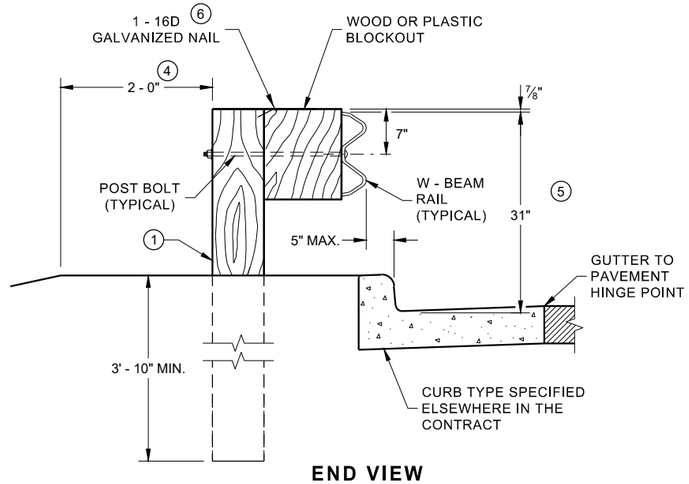
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



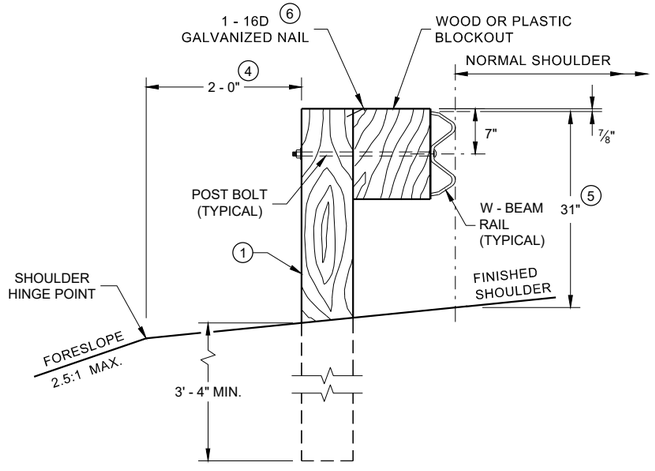
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



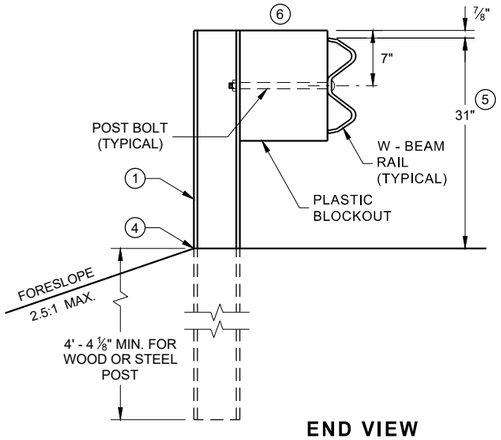
WOOD POST (6" X 8") NOMINAL (1)



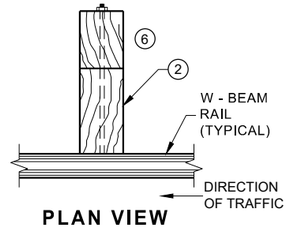
END VIEW
LOCATED ALONG A CURBED ROADWAY



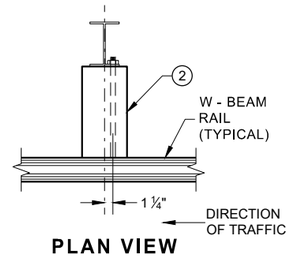
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



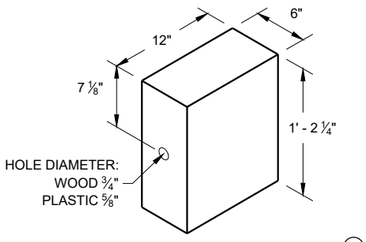
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

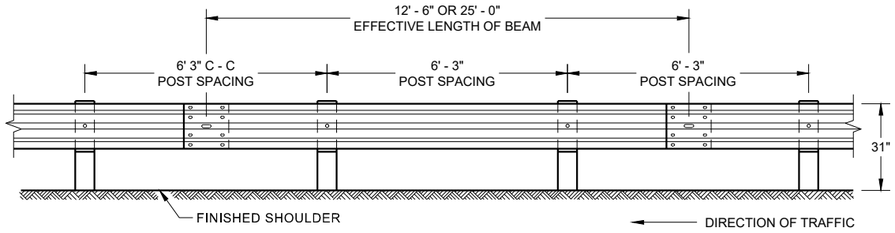
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

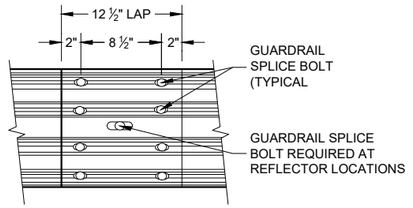
SDD 14B42 - 07a

6

SDD 14B42 - 07a



FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
MID-SPAN BEAM SPLICE

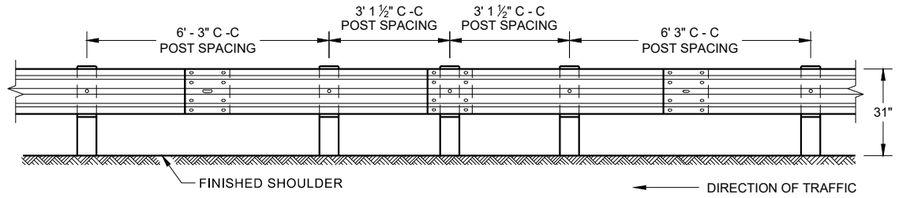
GENERAL NOTES

(8) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

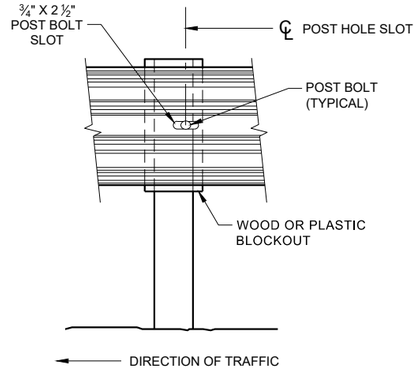
(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

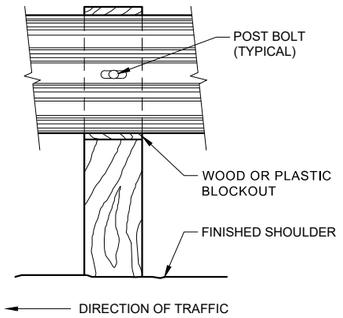
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



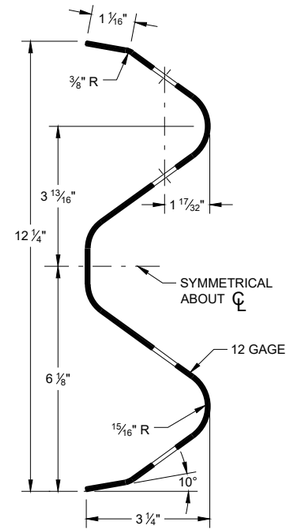
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



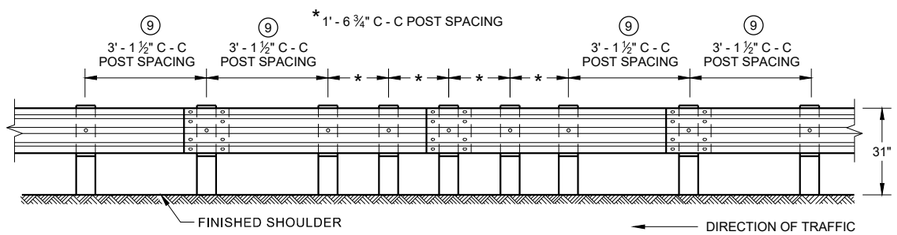
FRONT VIEW AT STEEL POST



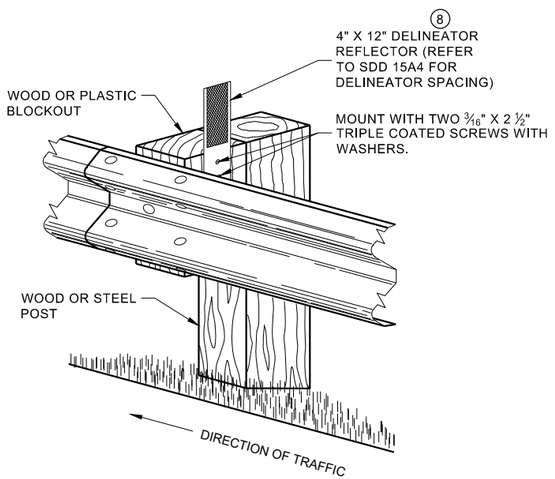
FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



FRONT VIEW
QUARTER POST SPACING (QS)



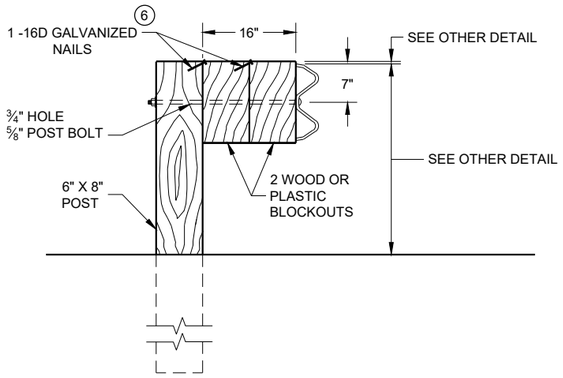
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

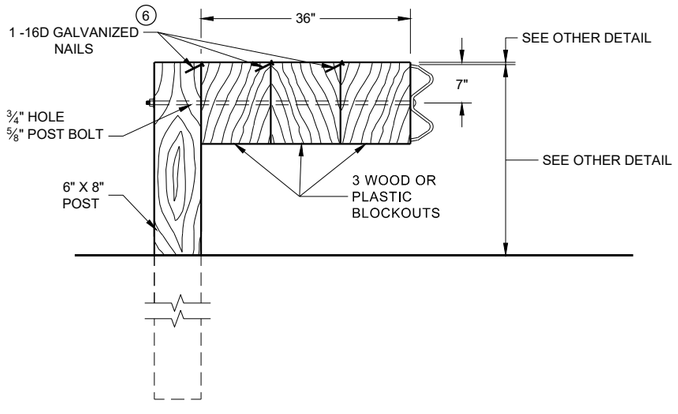
6

SDD 14B42 - 07b
SDD 14B42 - 07b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



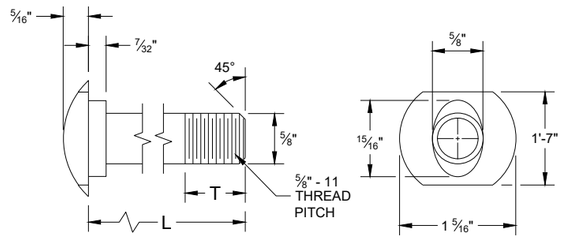
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

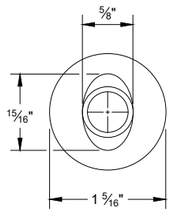
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

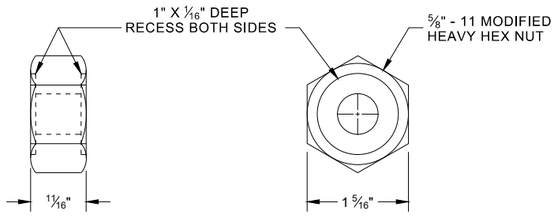


POST BOLT TABLE

L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"

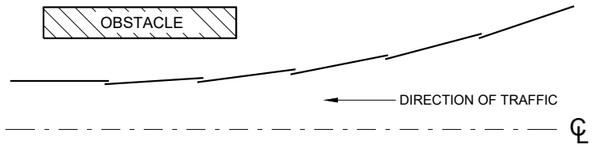


ALTERNATE BOLT HEAD

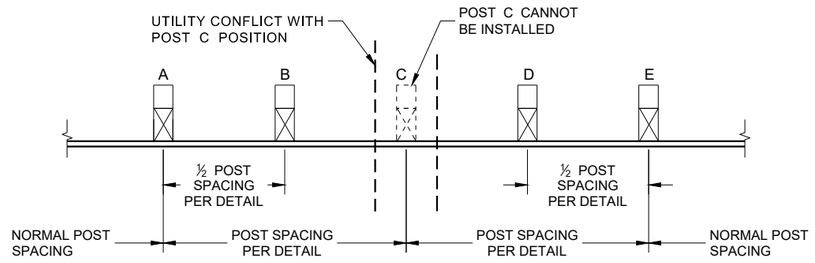


POST BOLT, SPLICE BOLT AND RECESS NUT

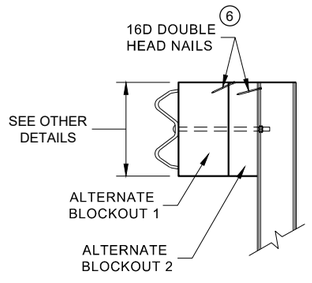
6 WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



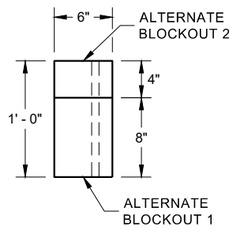
PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

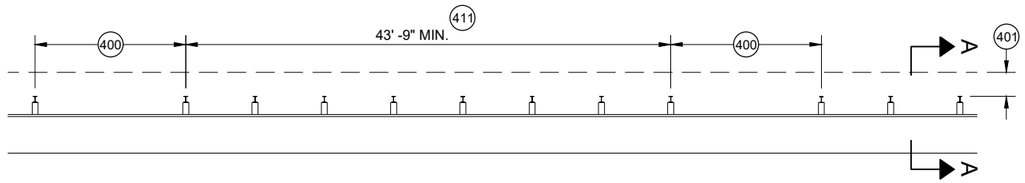


SIDE VIEW

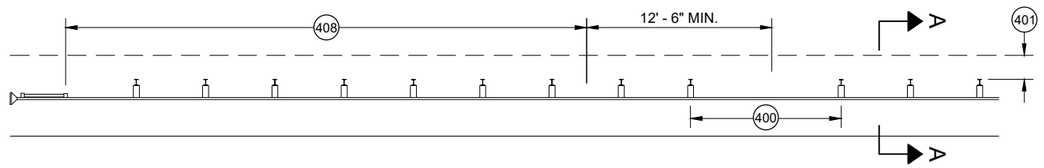


PLAN VIEW

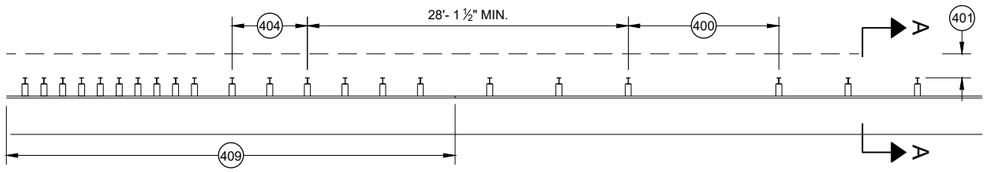
ALTERNATE WOOD BLOCKOUT DETAIL



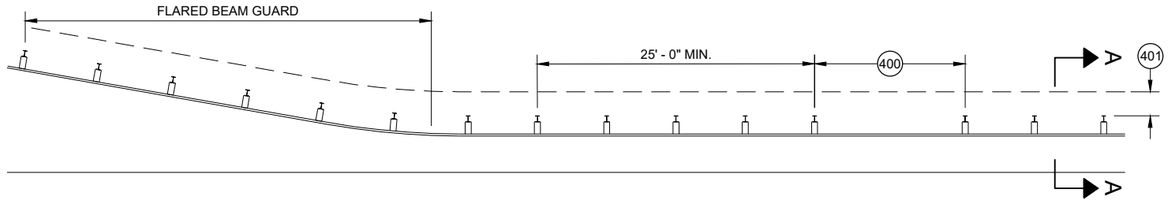
MISSING POST IN MGS GUARDRAIL



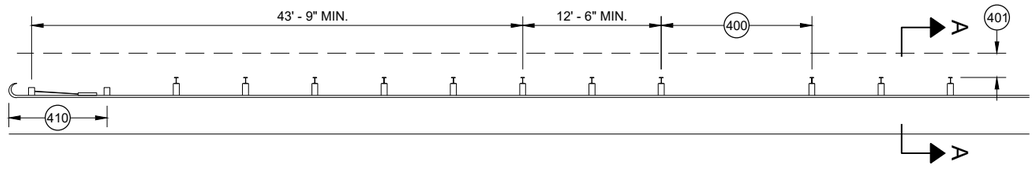
MISSING POST IN MGS GUARDRAIL NEAR EAT



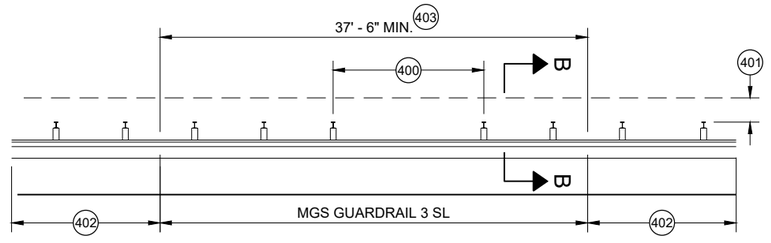
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

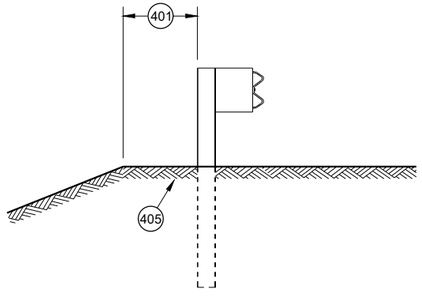


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

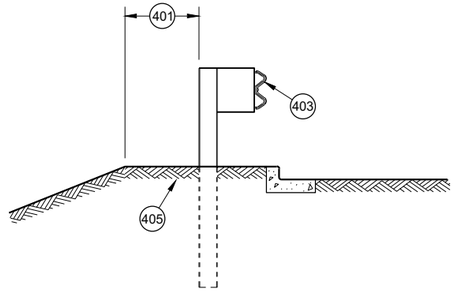


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

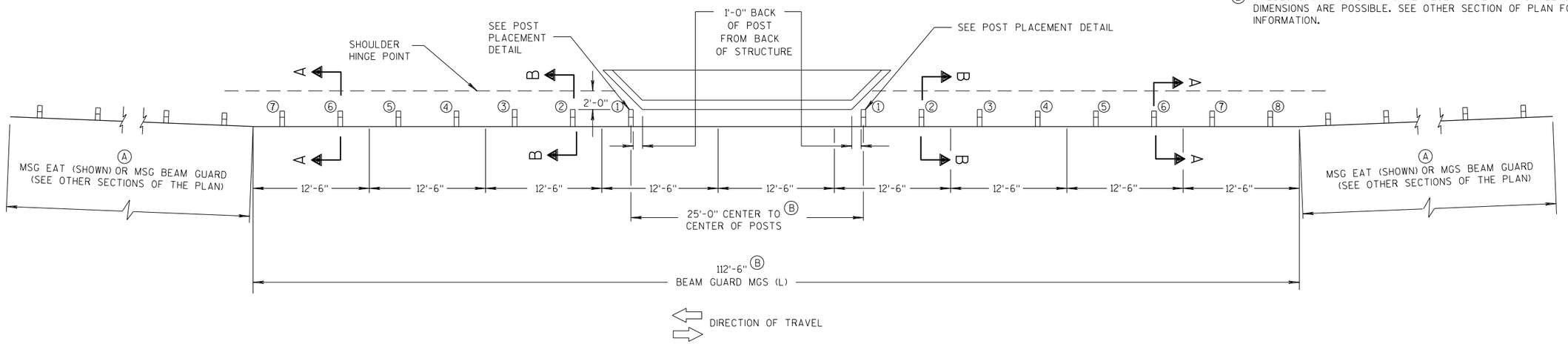
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

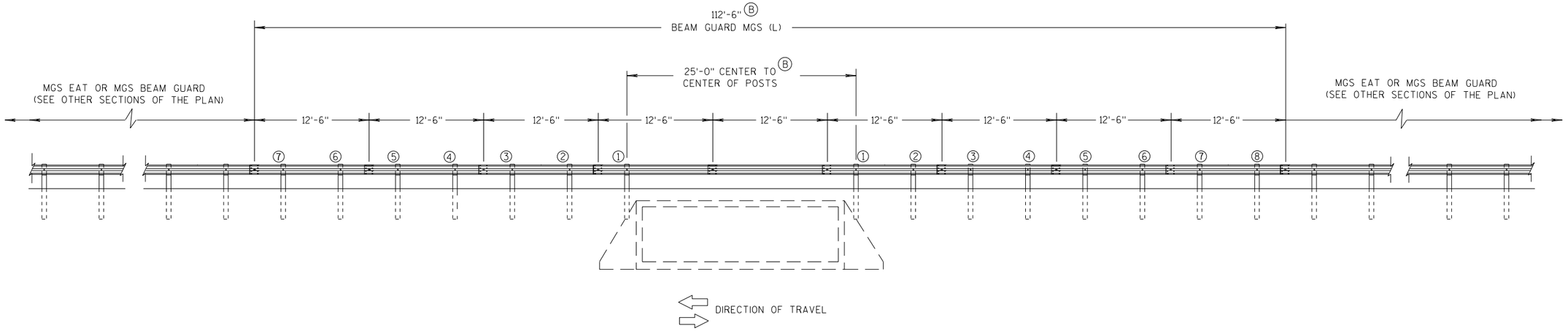
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 43-4a

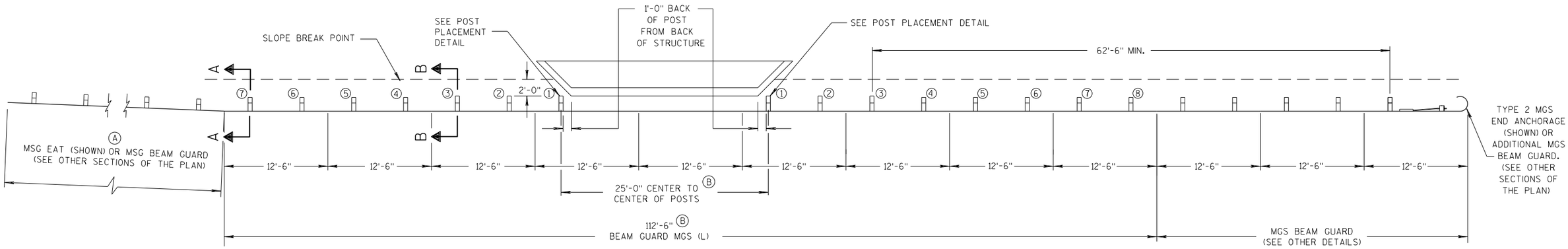
GENERAL NOTES

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ALL OTHER POSTS SHALL BE WOOD OR STEEL.

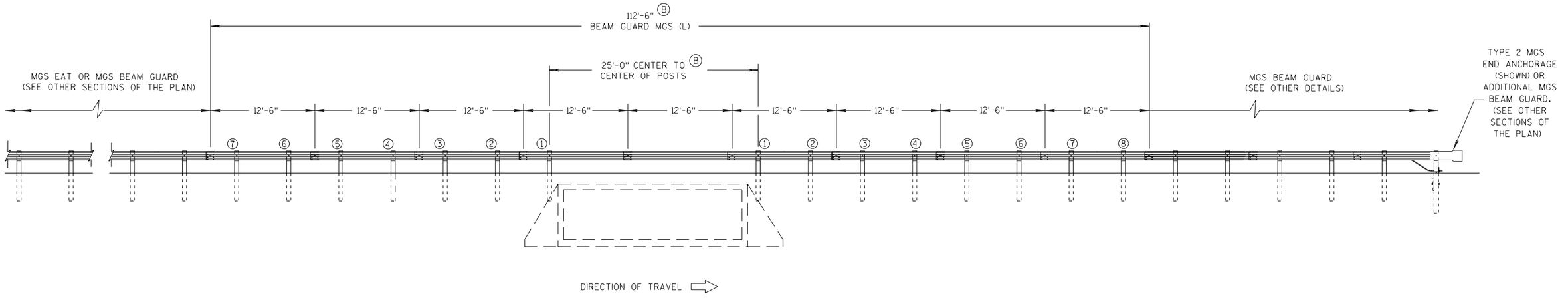
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

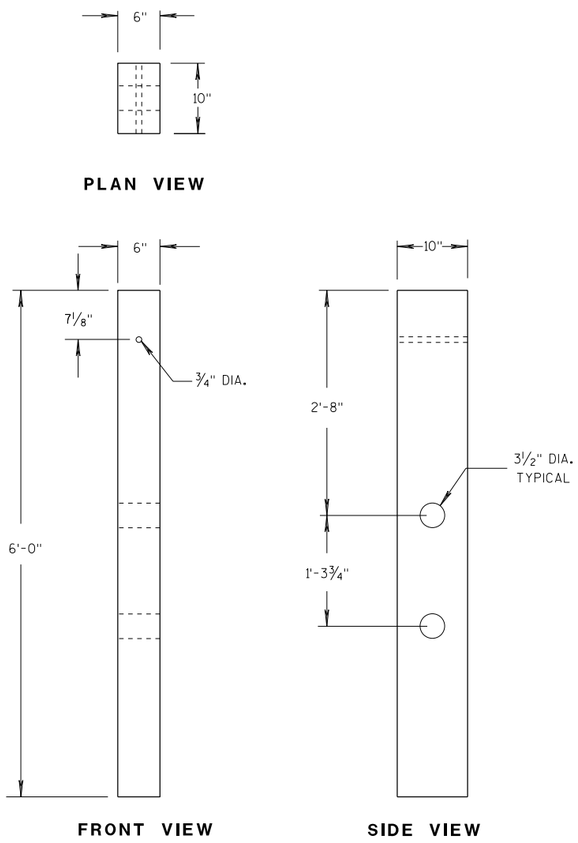
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)

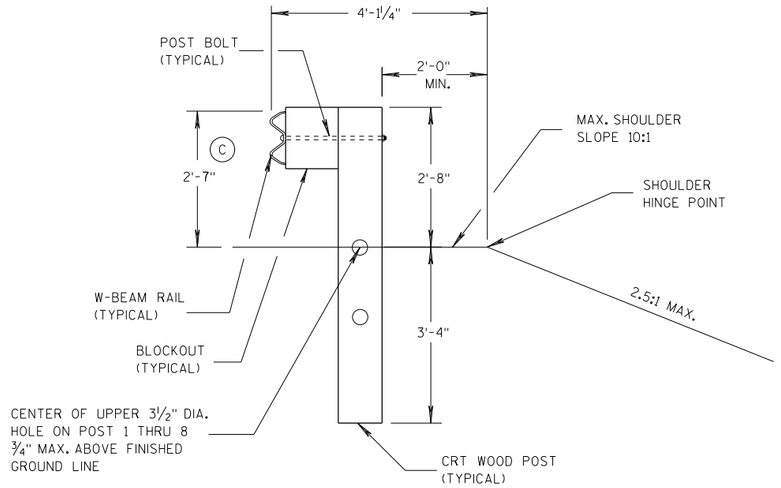
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 43-4b



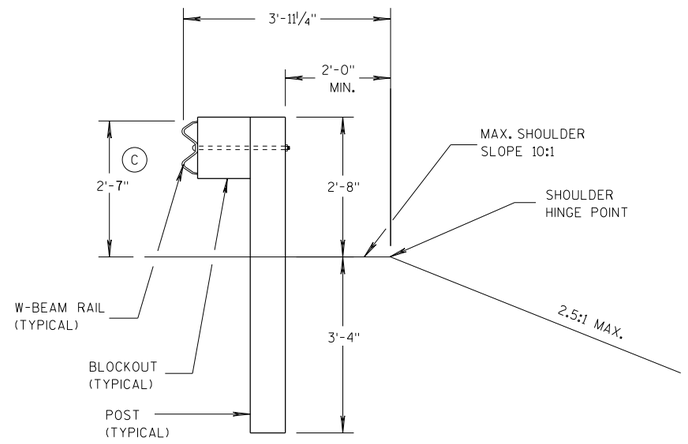
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



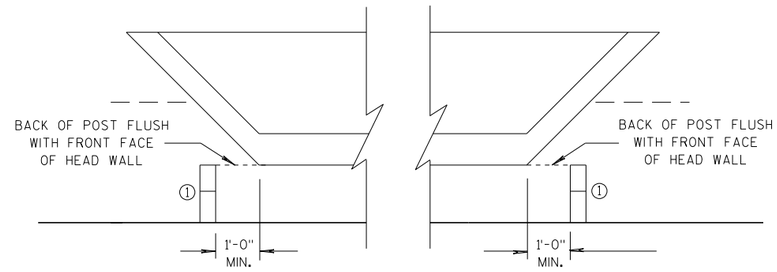
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

(C) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6
S.D.D. 14 B 43-4c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

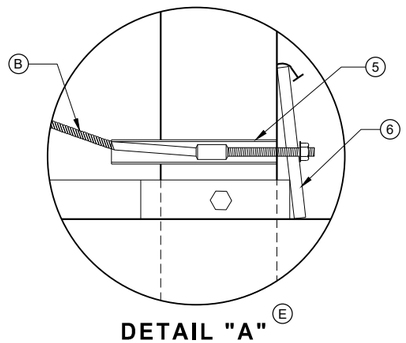
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

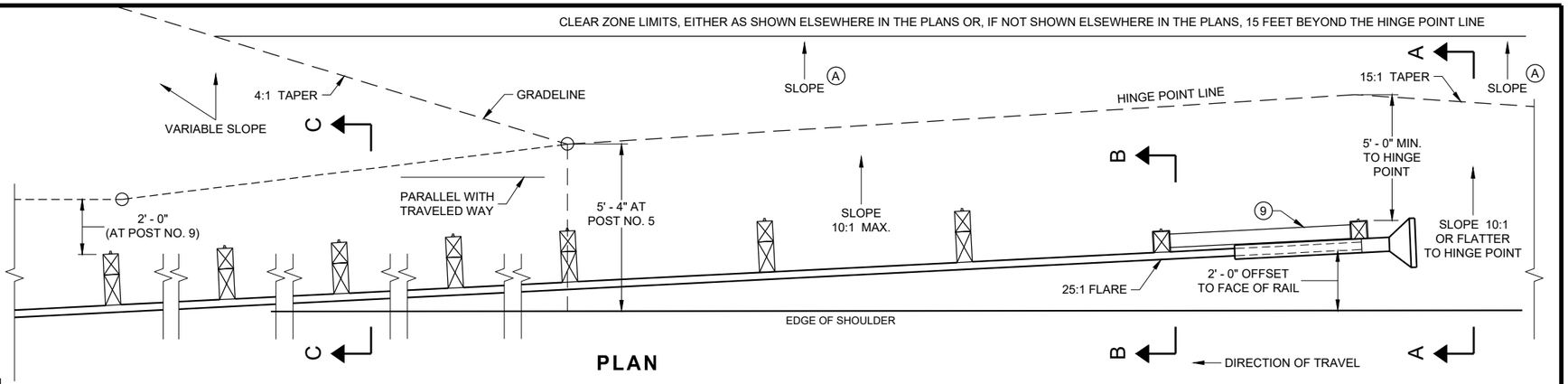
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

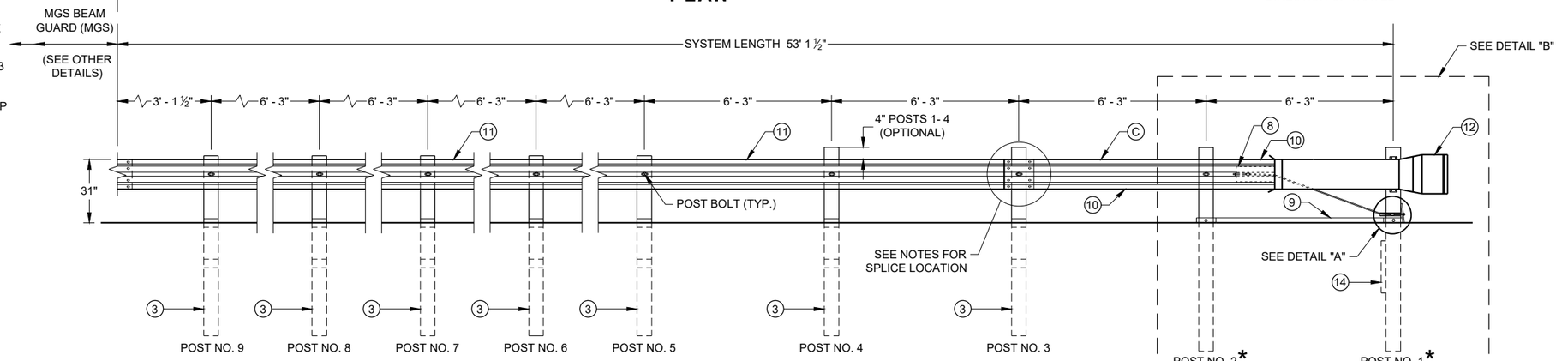
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



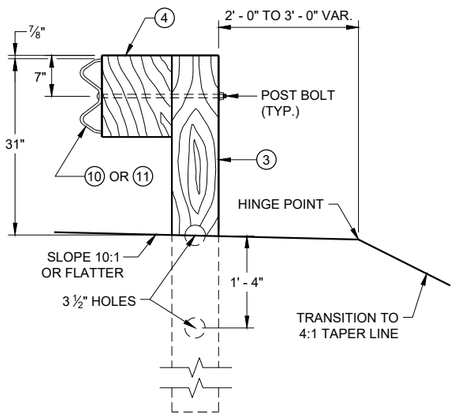
DETAIL "A" (E)



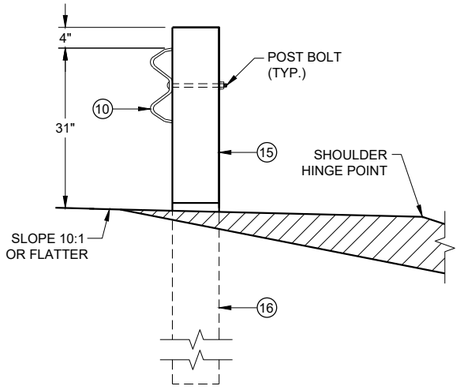
PLAN



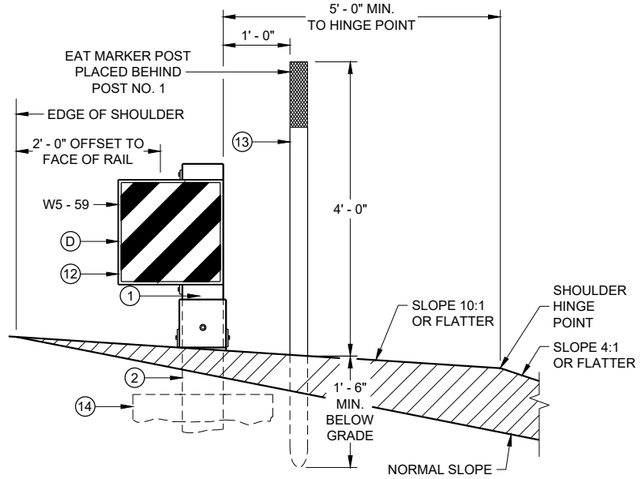
ELEVATION



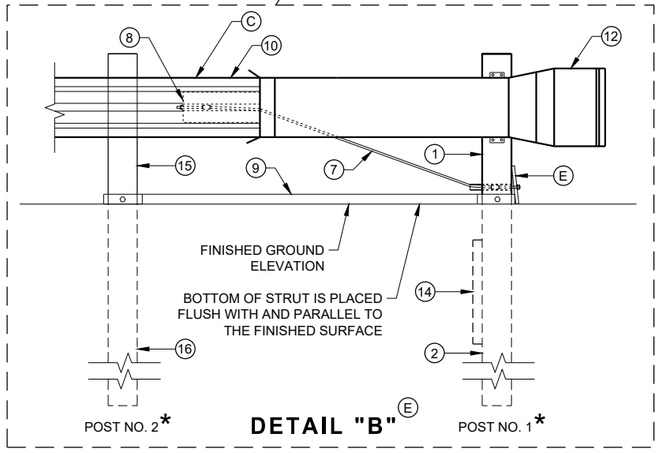
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

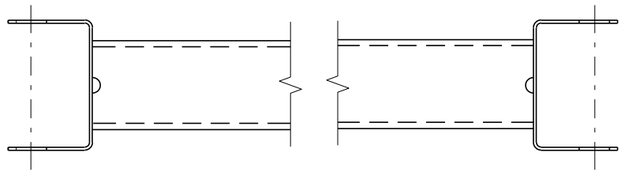
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

SDD 14B44 - 04a

6

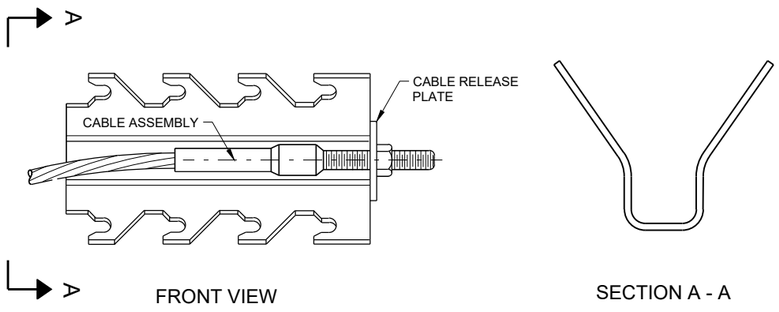
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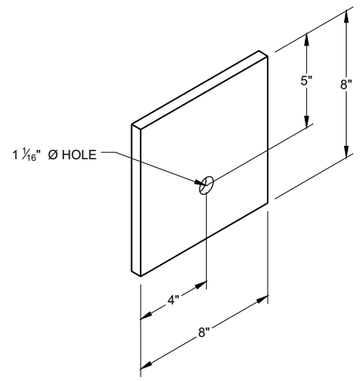
GENERIC GROUND STRUT (9) (E)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
(1)	UPPER POST NO. 1 6" X 6" TUBE
(2)	LOWER POST NO. 1
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX (9) (E)



BEARING PLATE (6) (E)

6

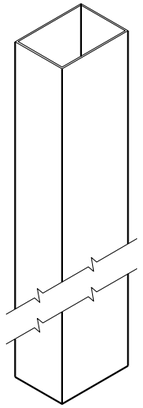
6

SDD 14B44 - 04b

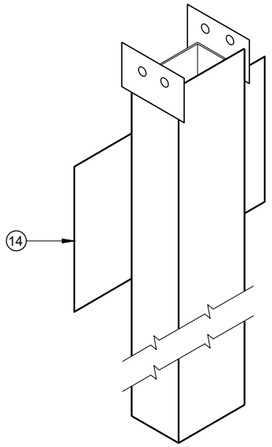
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

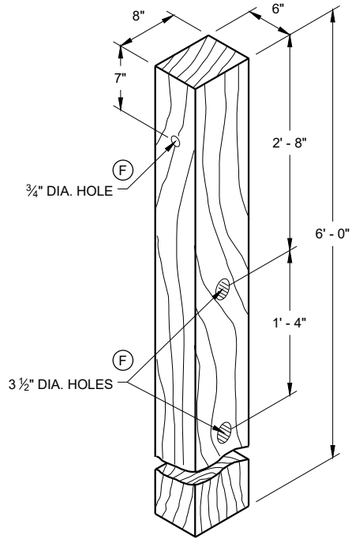
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



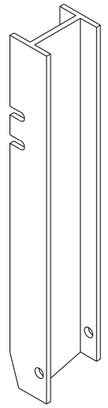
UPPER POST NO. 1 (1) (E)



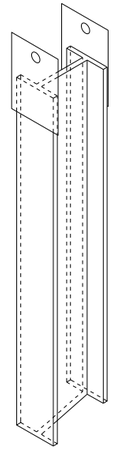
LOWER POST NO. 1 (2) (E)



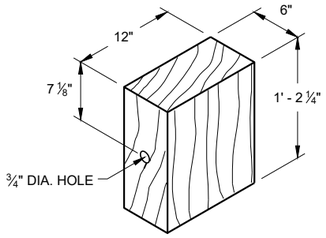
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



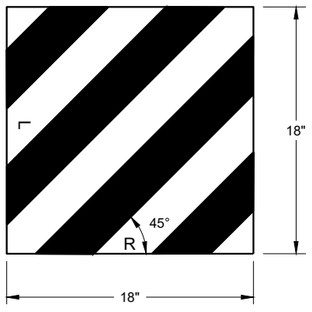
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

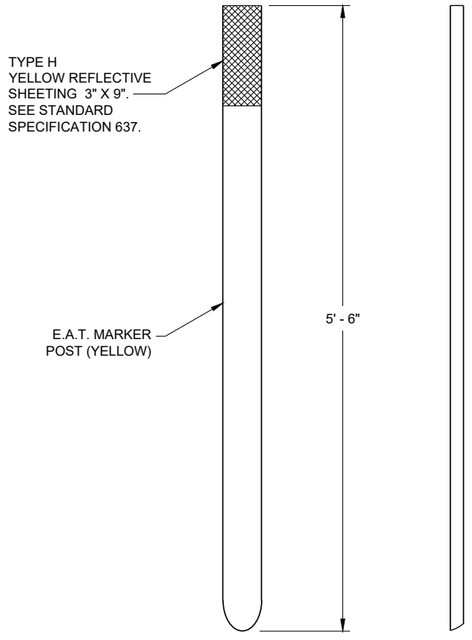


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



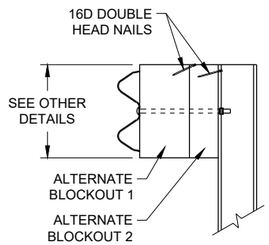
W5 - 59

REFLECTIVE SHEETING DETAIL (E)

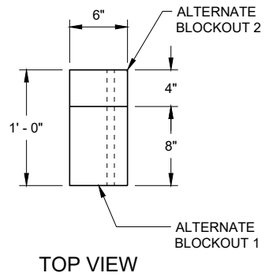


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

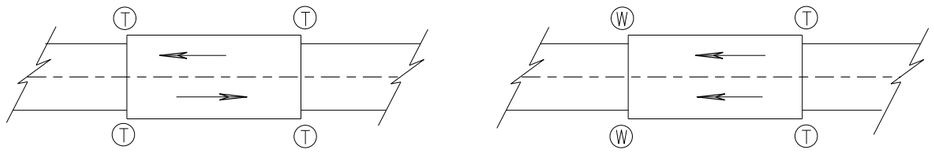
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

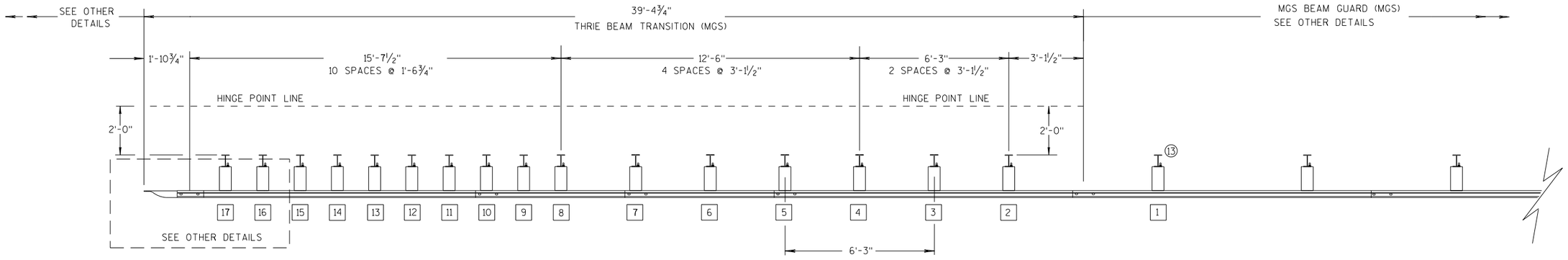
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

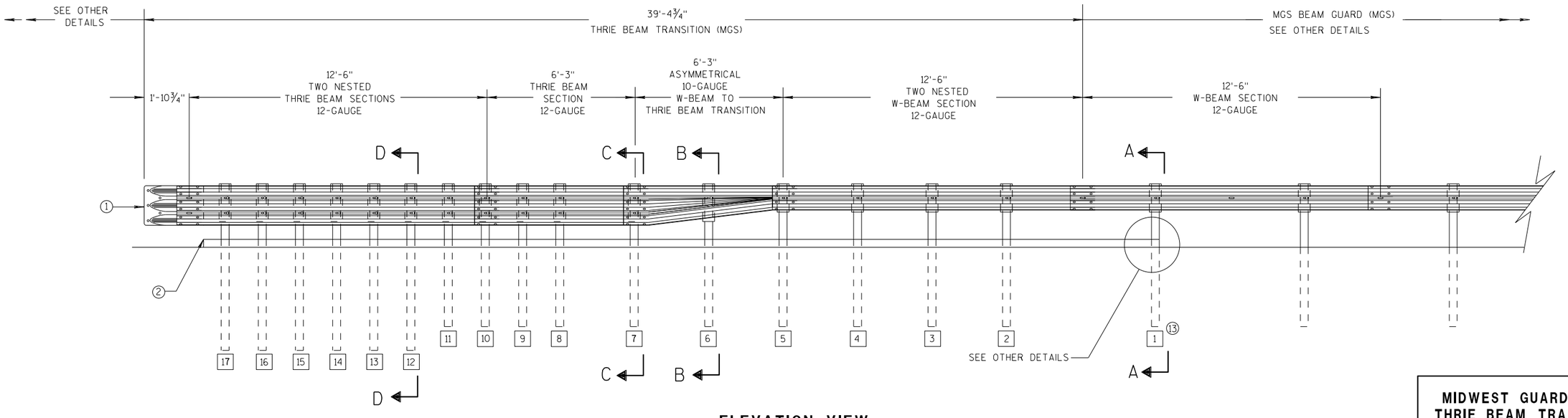
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 45-5a

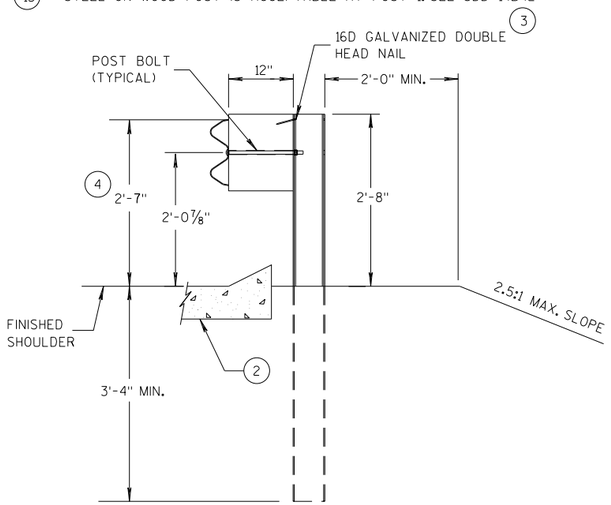
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

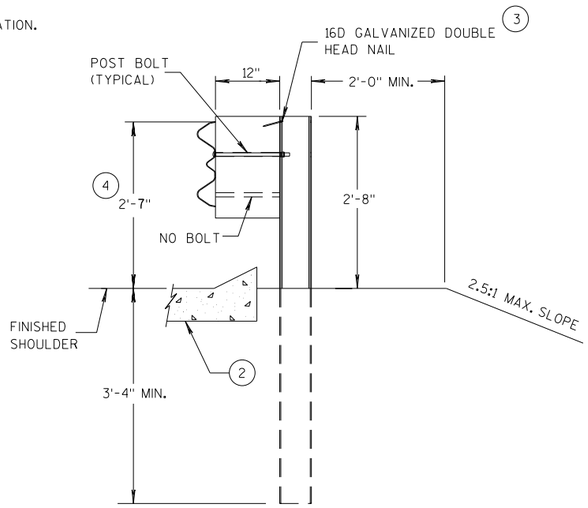
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



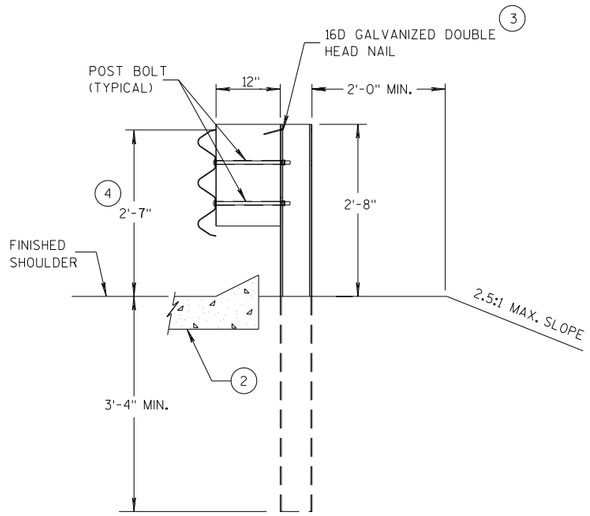
SECTION A-A (13)

POSTS 1-5



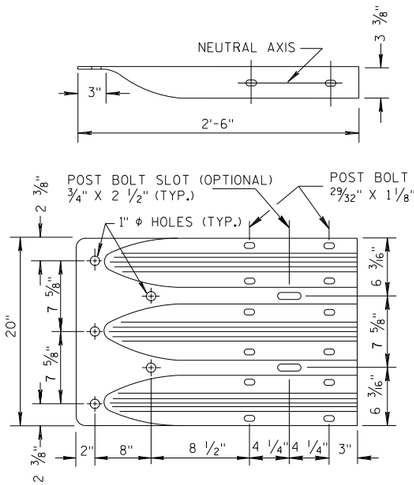
SECTION B-B

POST 6

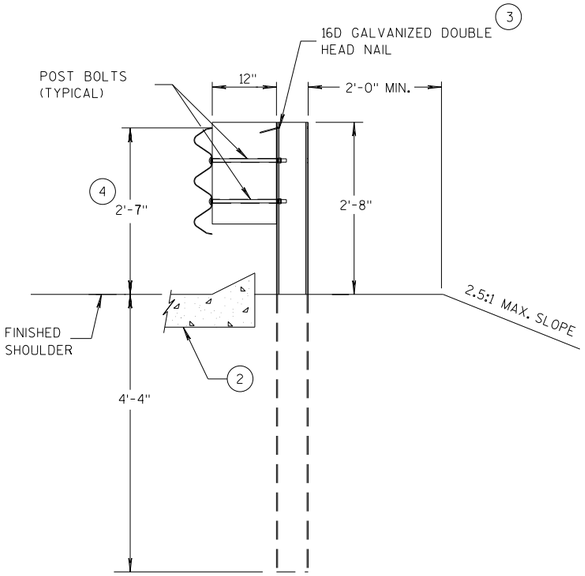


SECTION C-C

POSTS 7-11

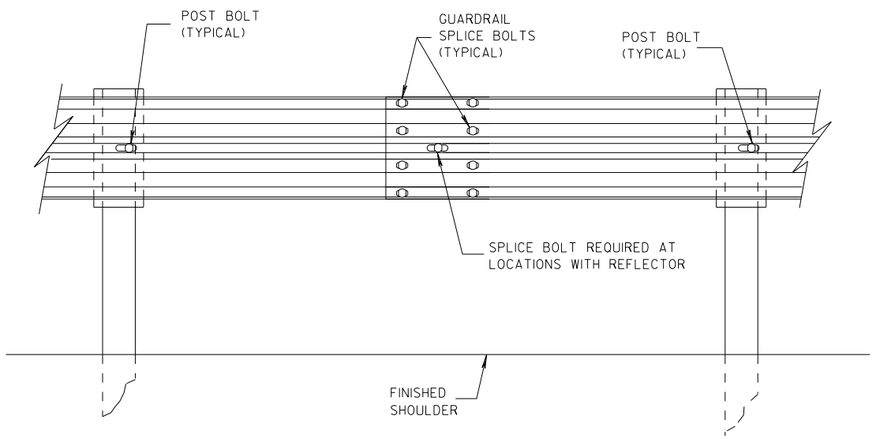


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

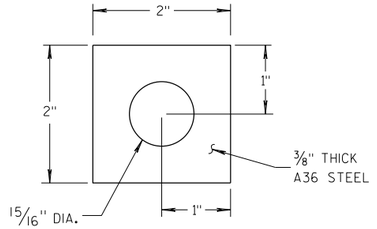
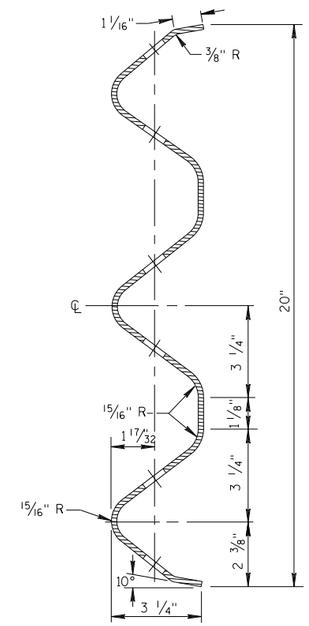


PLATE WASHER DETAIL



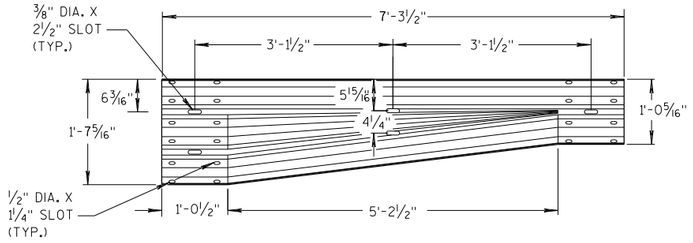
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

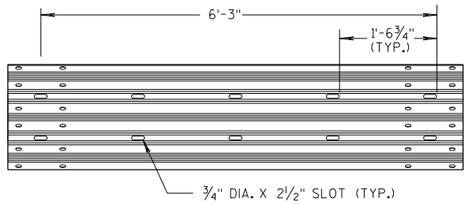
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

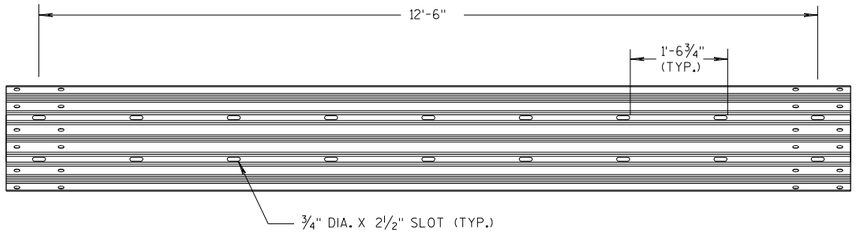
S.D.D. 14 B 45-5b



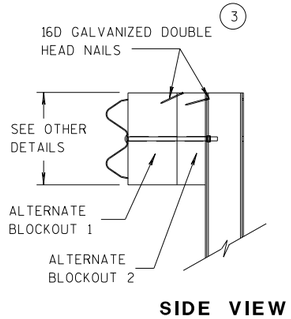
W-BEAM TO THRIE BEAM TRANSITION SECTION



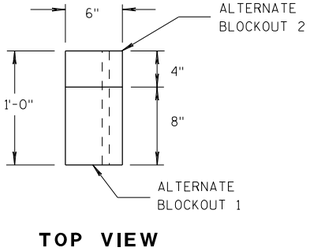
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

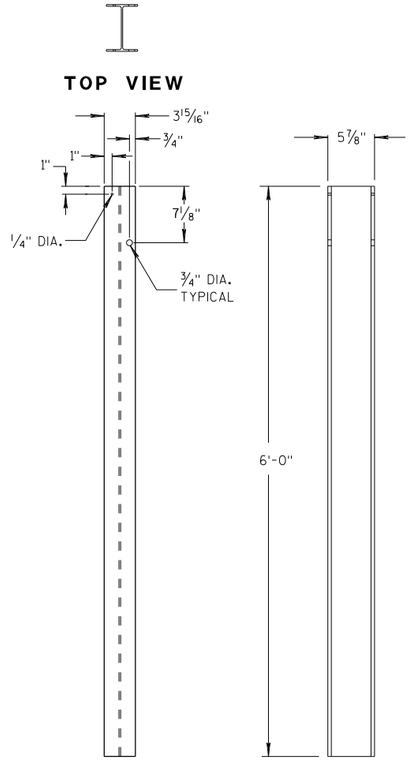


SIDE VIEW



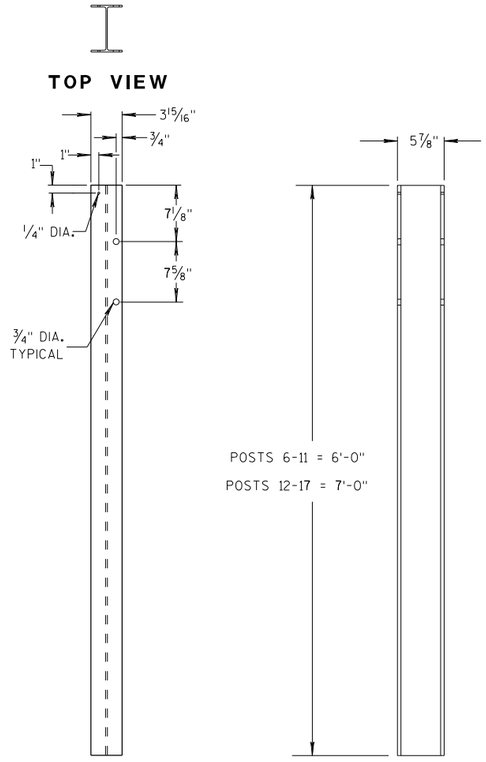
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



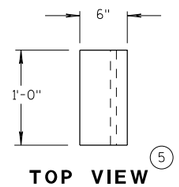
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

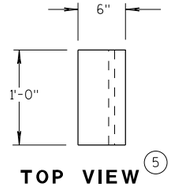


FRONT VIEW SIDE VIEW

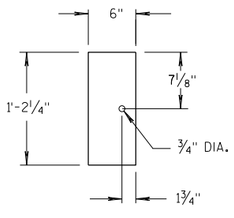
STEEL POSTS 6-17



TOP VIEW (5)

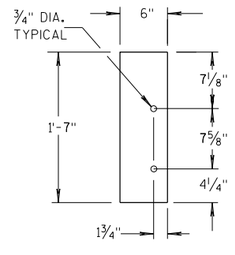


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

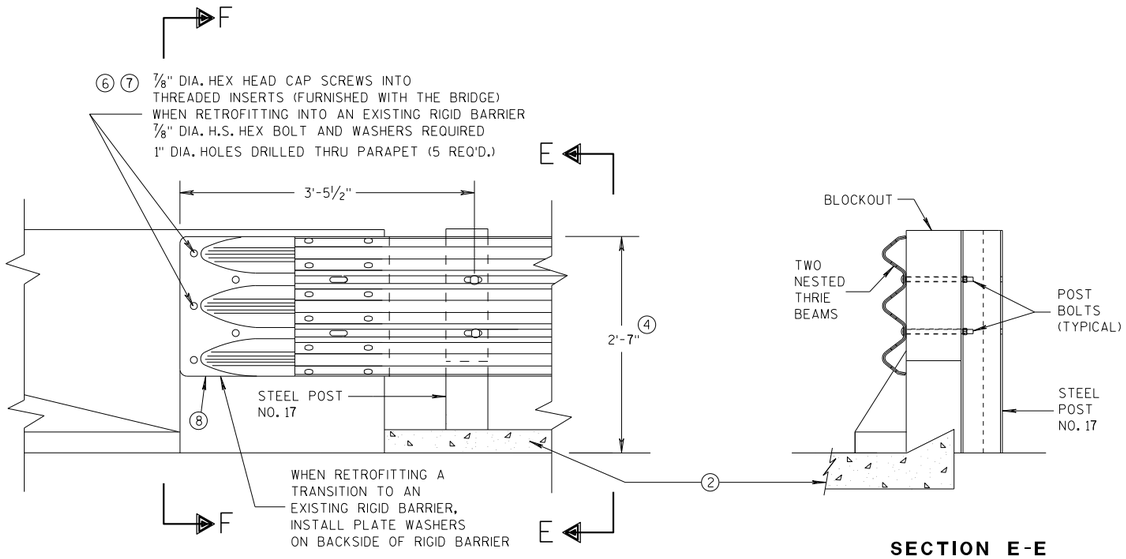
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

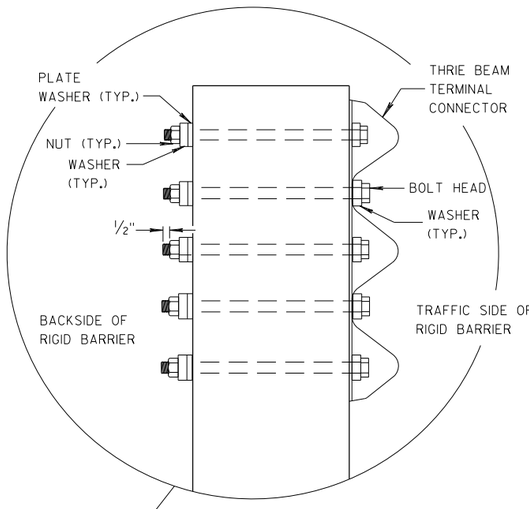
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

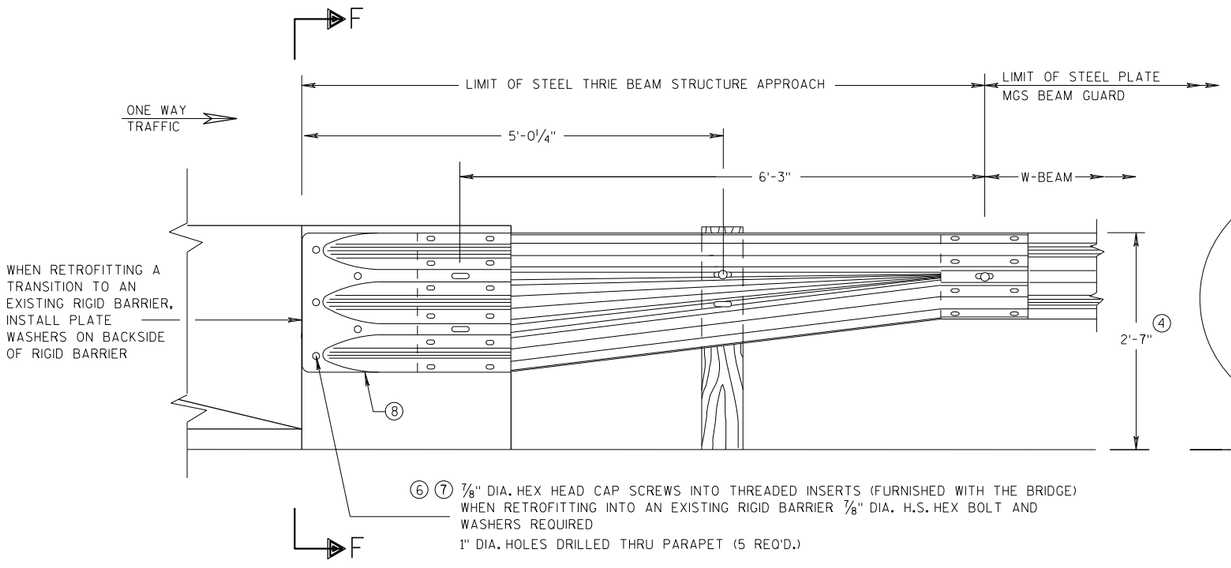
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

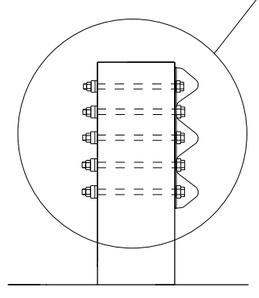
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

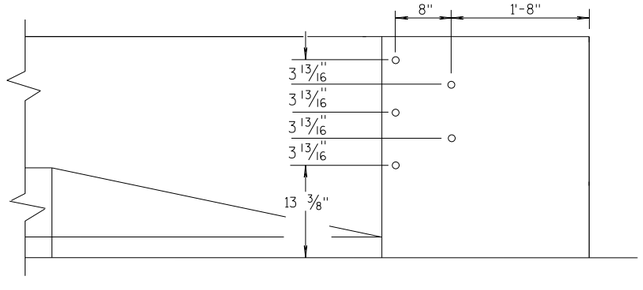




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVIS NT
FHWA

6

S.D.D. 14 B 45-5d

6

S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

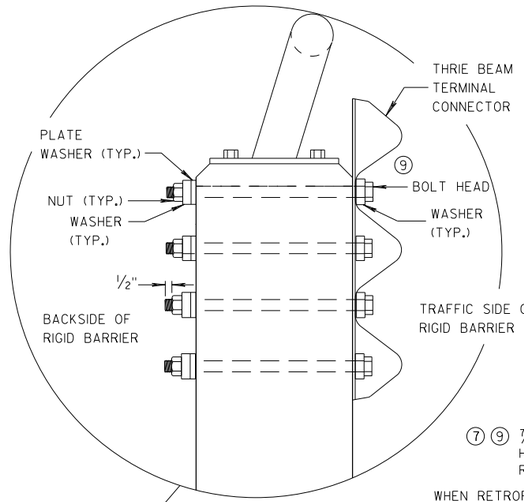
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

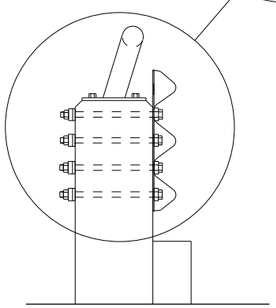
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

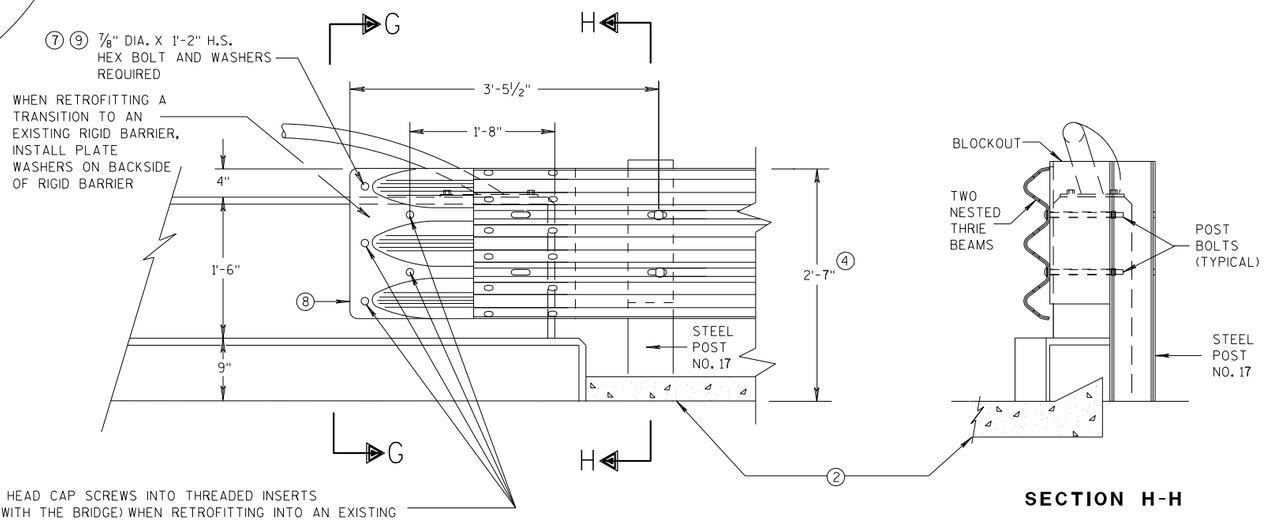
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





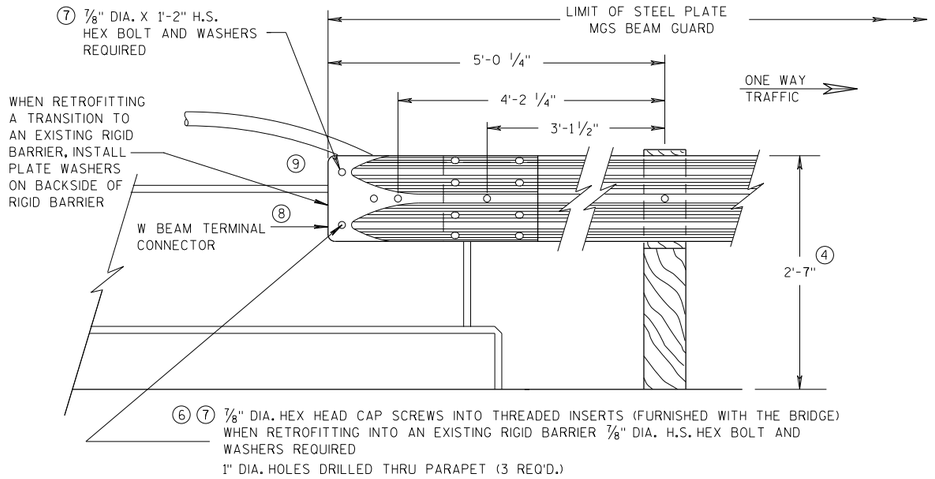
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
FHWA

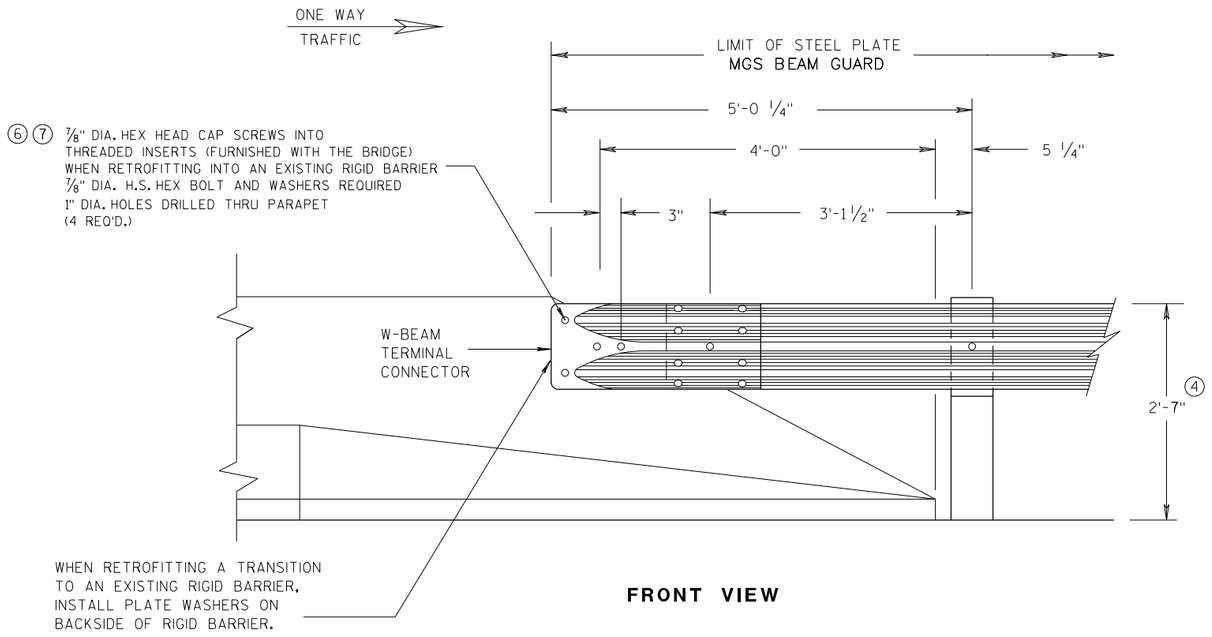
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVIS NT

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S.D.D. 14 B 45-5e

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S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

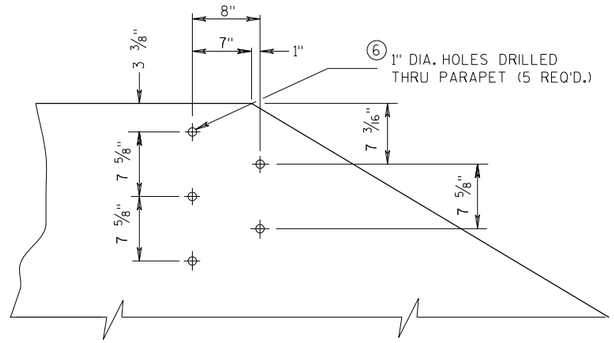
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

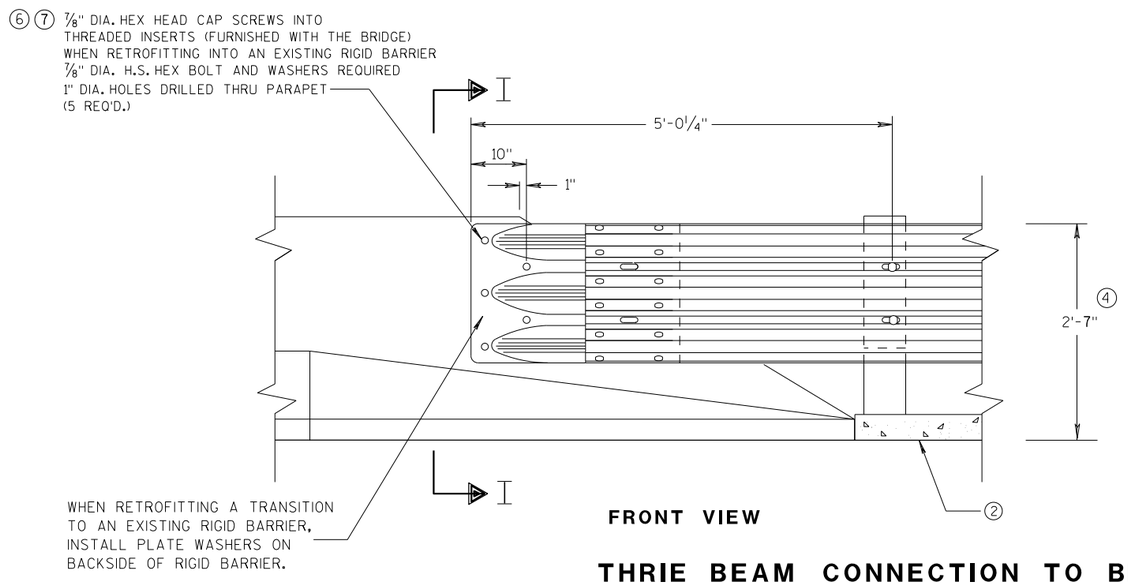
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

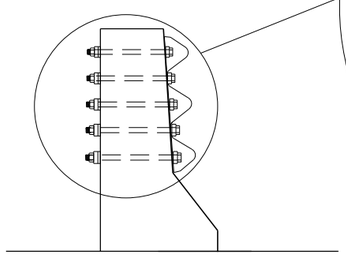
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



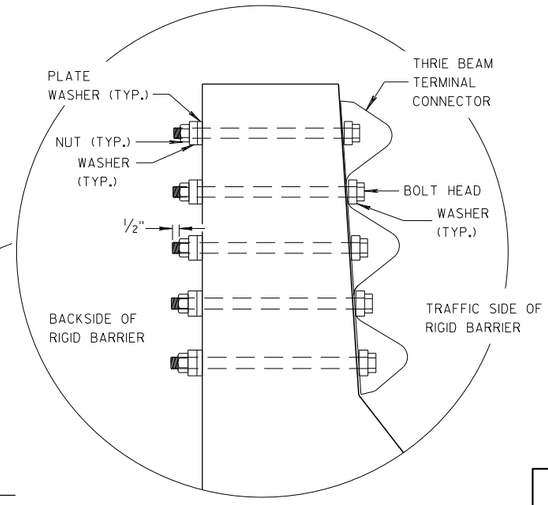
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

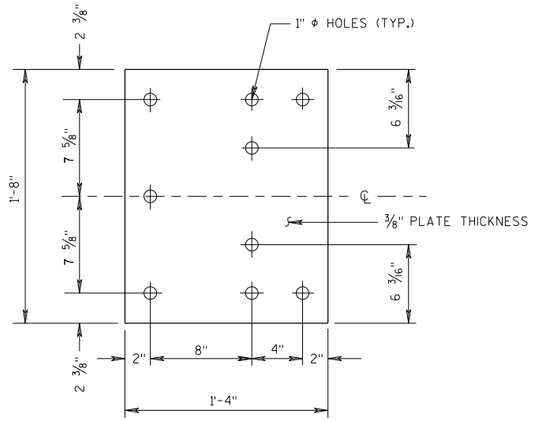
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FHWA

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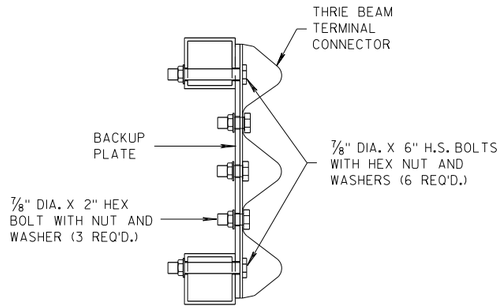
S.D.D. 14 B 45-5f

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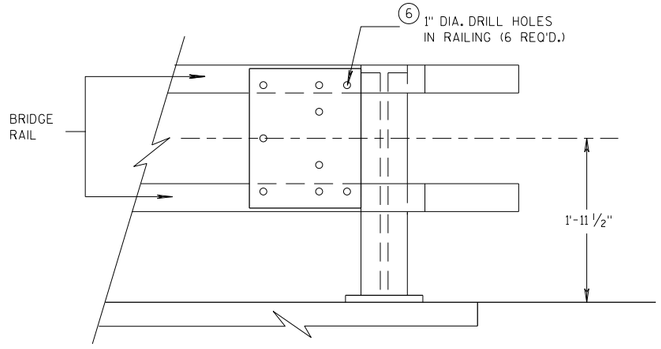
S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL



SECTION J-J

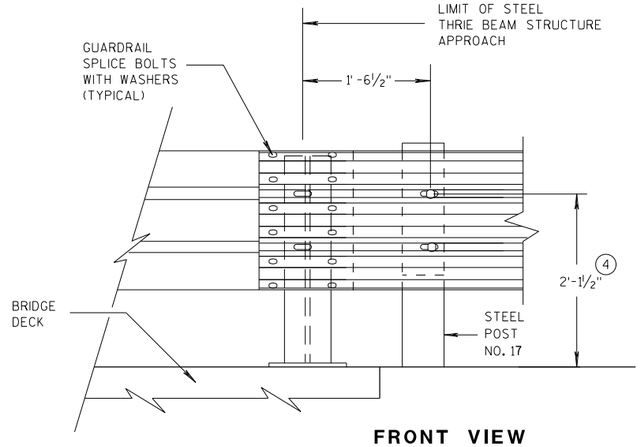


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

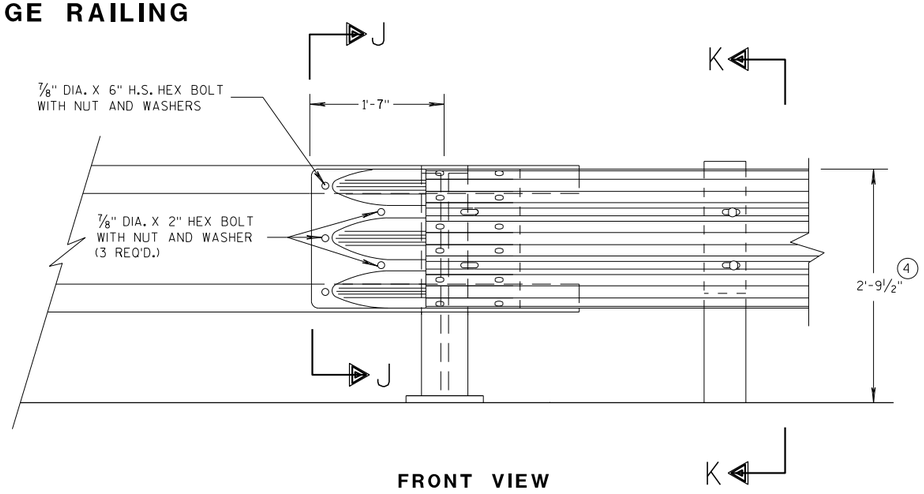
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

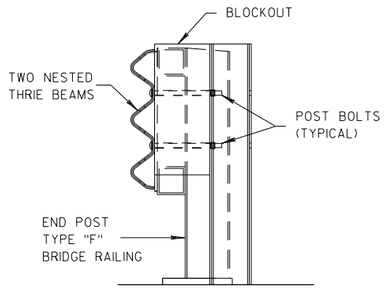


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
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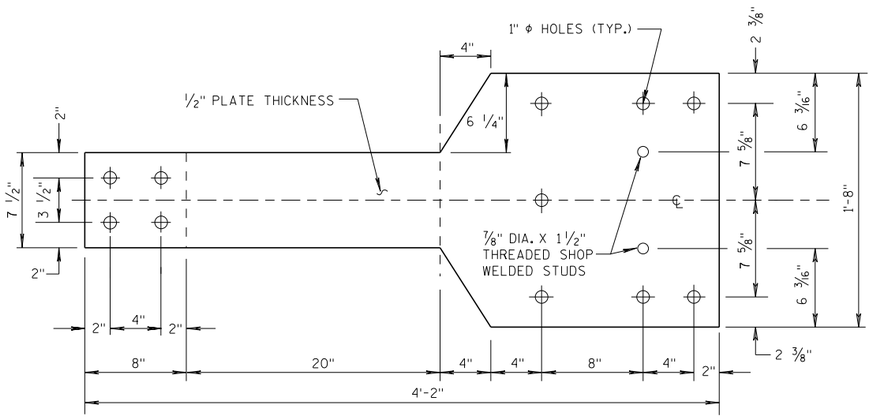
S.D.D. 14 B 45-5g

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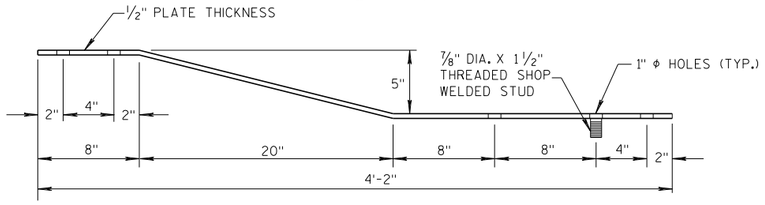
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

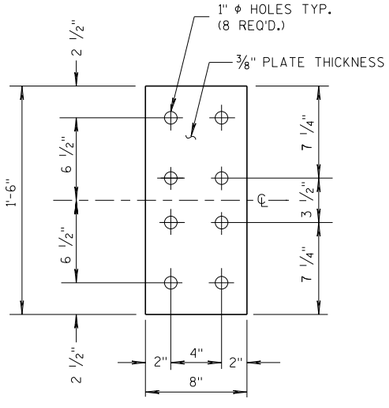


FRONT VIEW



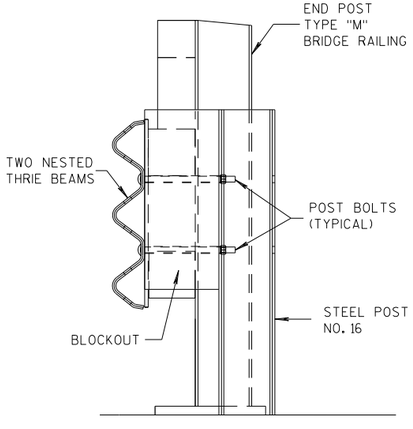
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

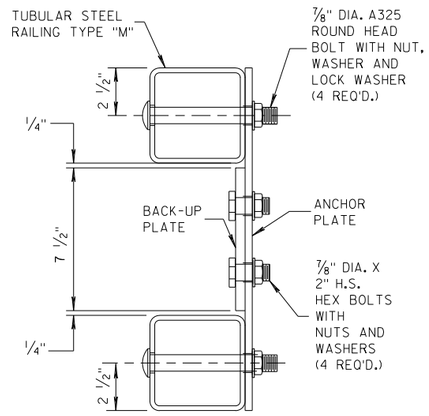


FRONT VIEW

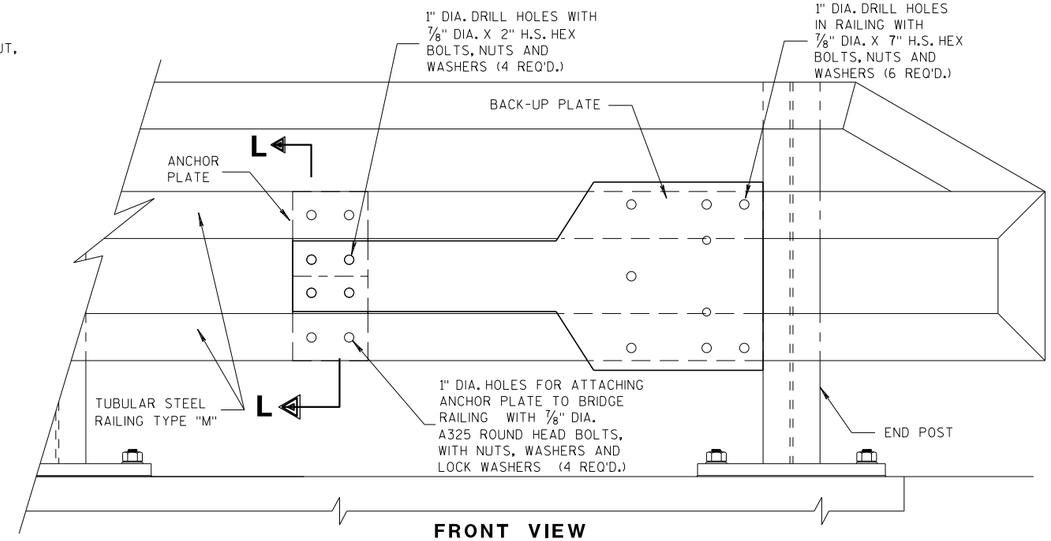
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

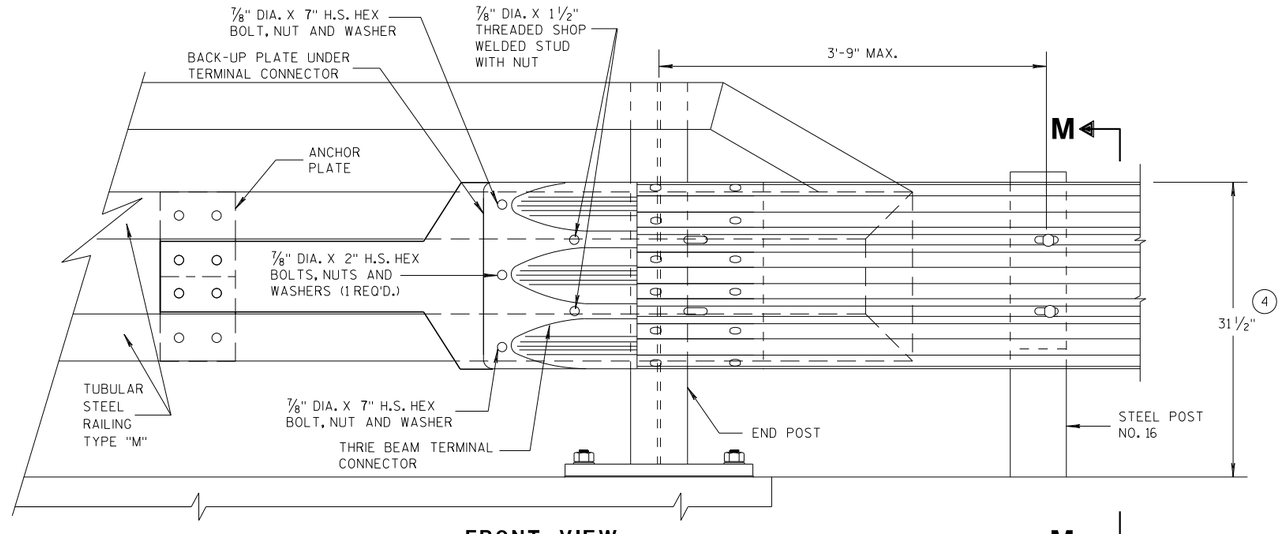


SECTION L-L

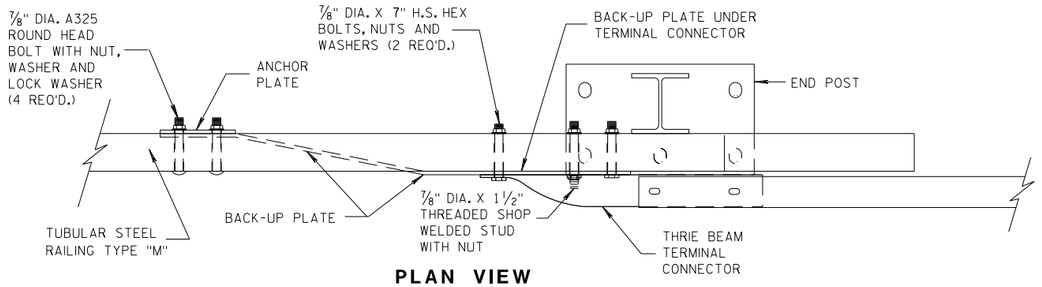


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

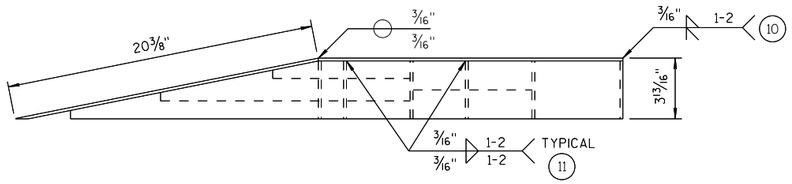
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FHWA

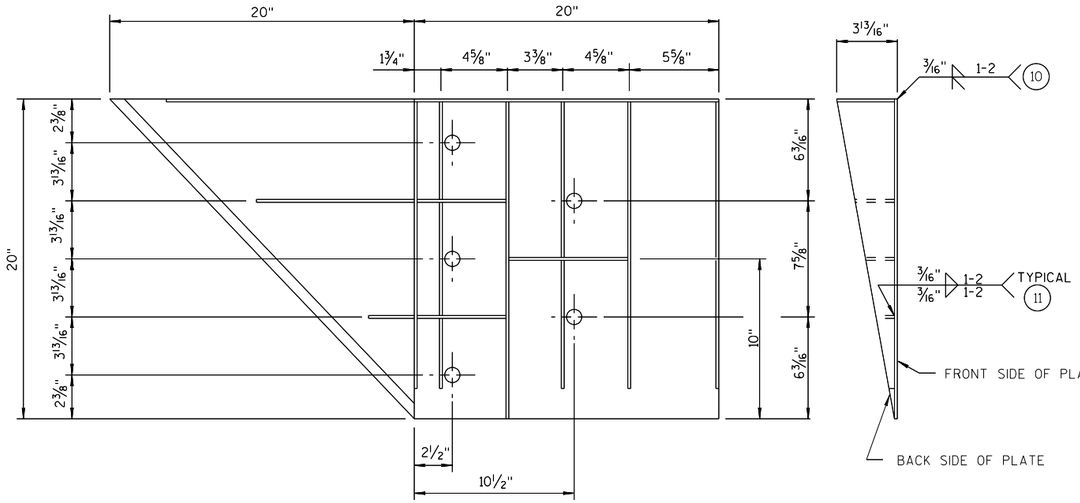
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WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

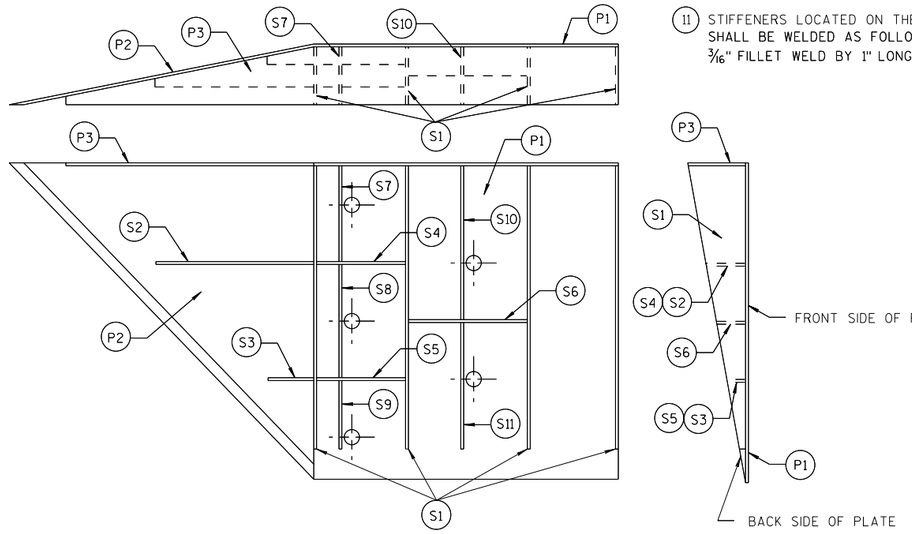


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

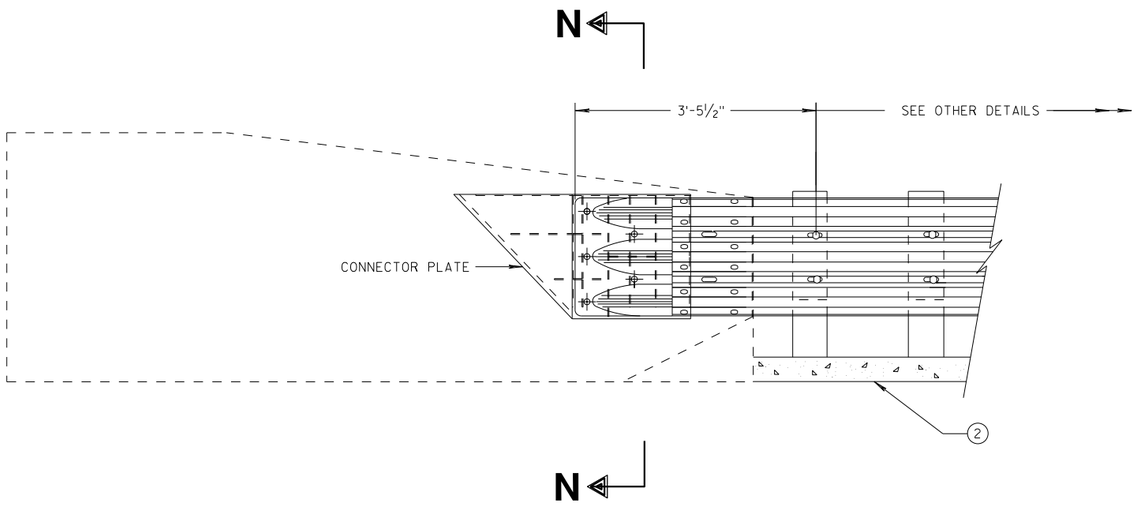
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

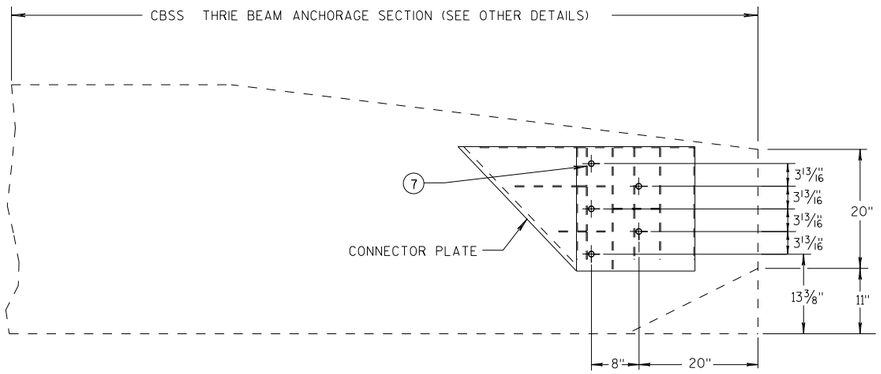
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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



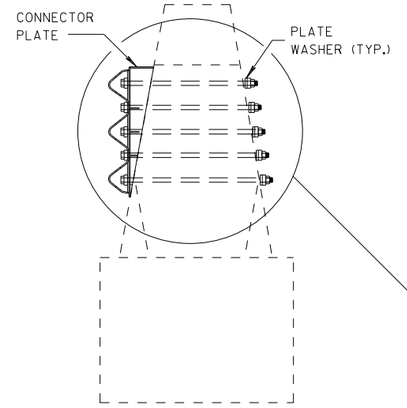
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

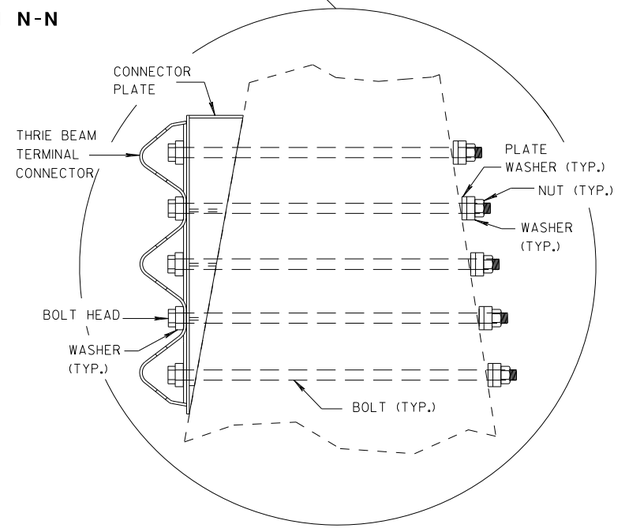
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

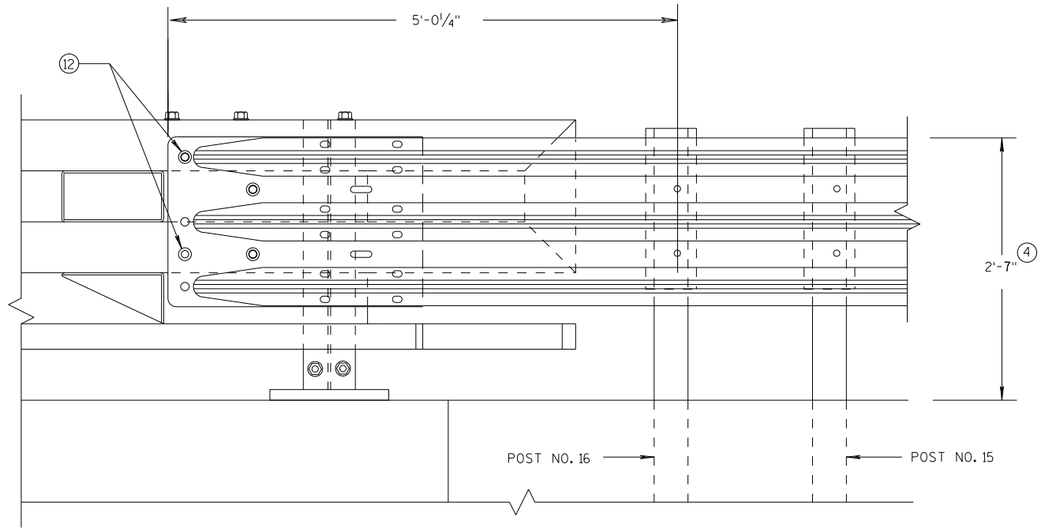
APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DI UNIT SUPERVIS NT
FHWA

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S.D.D. 14 B 45-5j

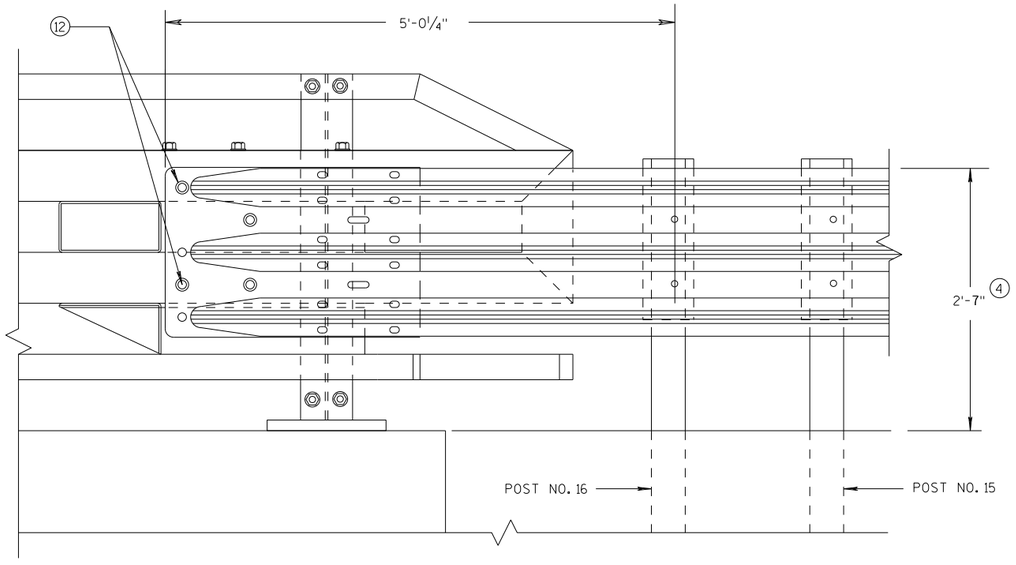
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S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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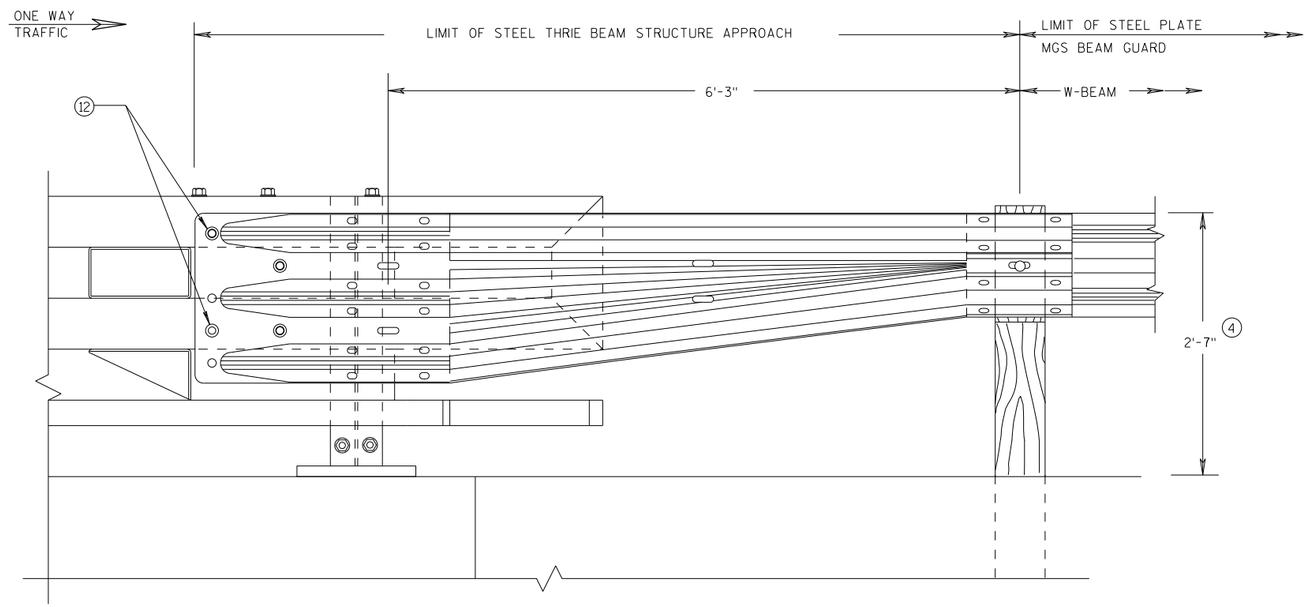
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S.D.D. 14 B 45-5k



FRONT VIEW

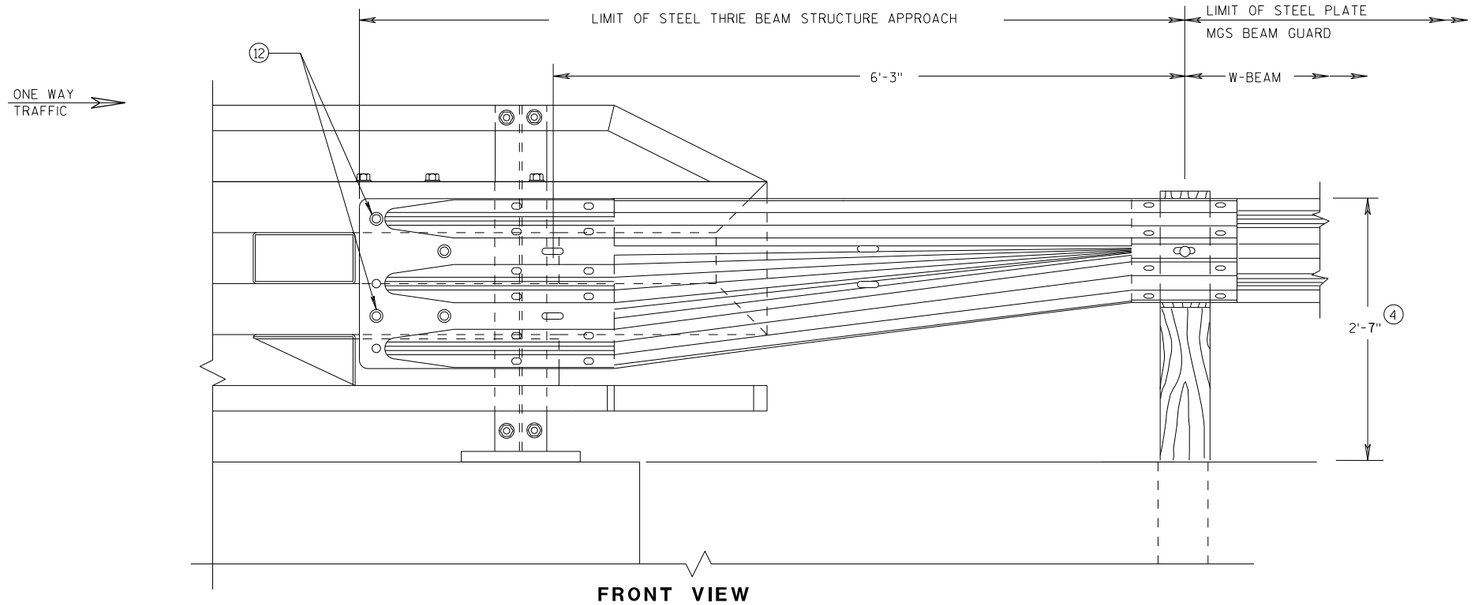
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS

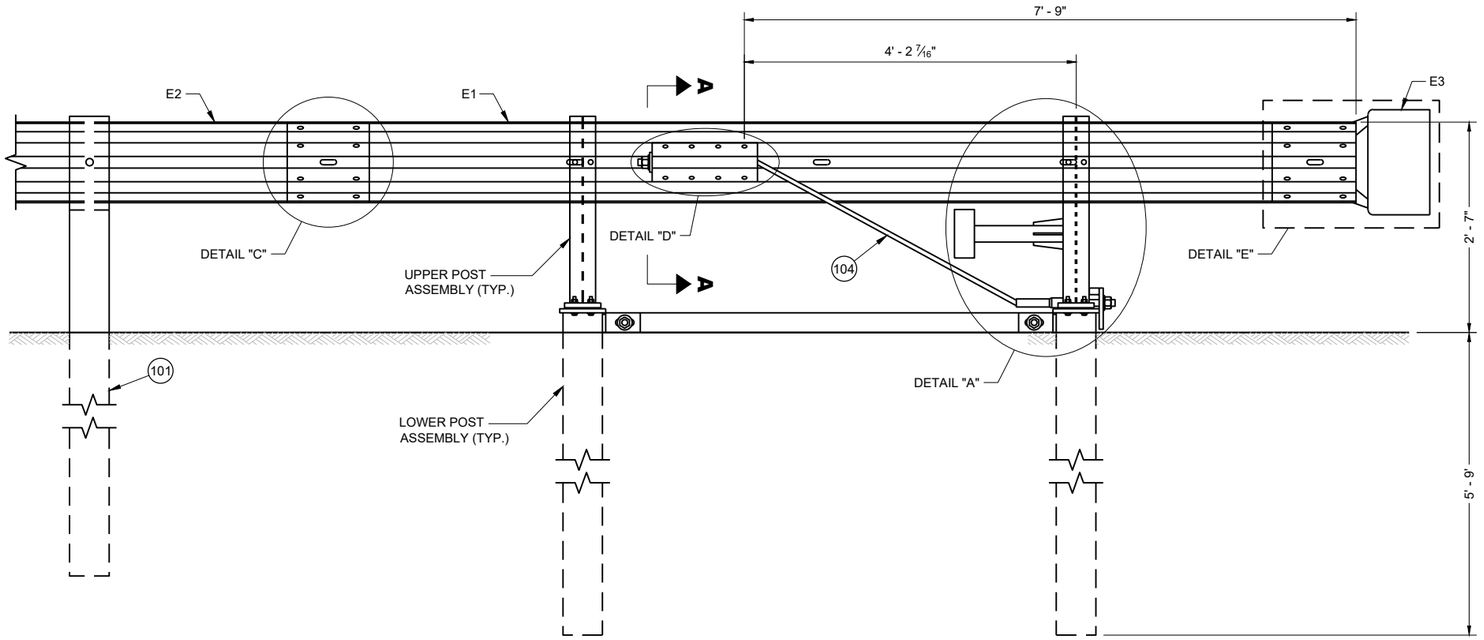
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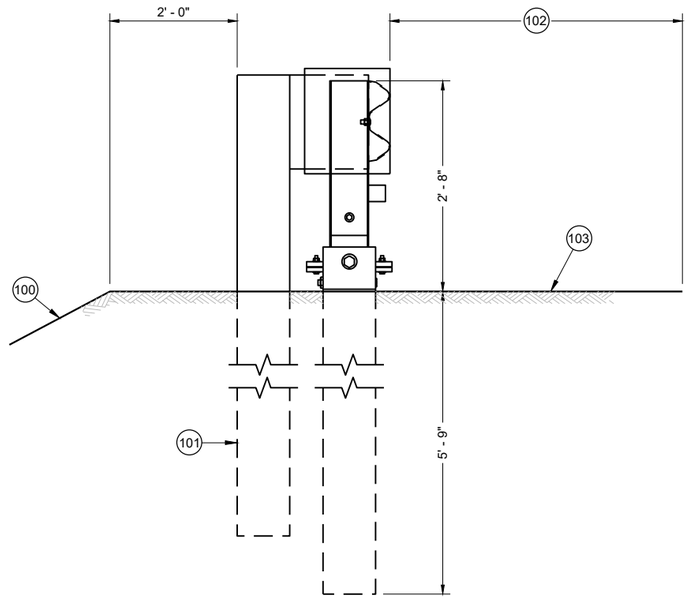
S.D.D. 14 B 45-5L

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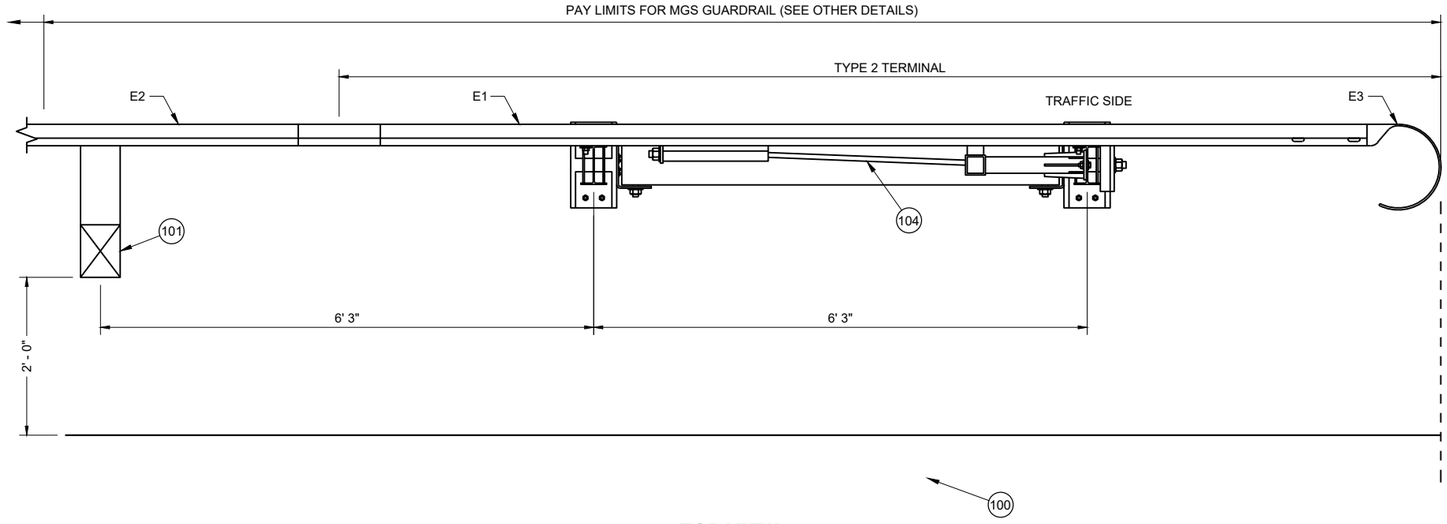
S.D.D. 14 B 45-5L



BACK VIEW
TYPE 2 TERMINAL



SIDE VIEW
TYPE 2 TERMINAL



TOP VIEW
TYPE 2 TERMINAL

GENERAL NOTES

(100) MAXIMUM SLOPE IS 2.5:1.

(101) SEE SDD 14B42 FOR MORE INFORMATION.

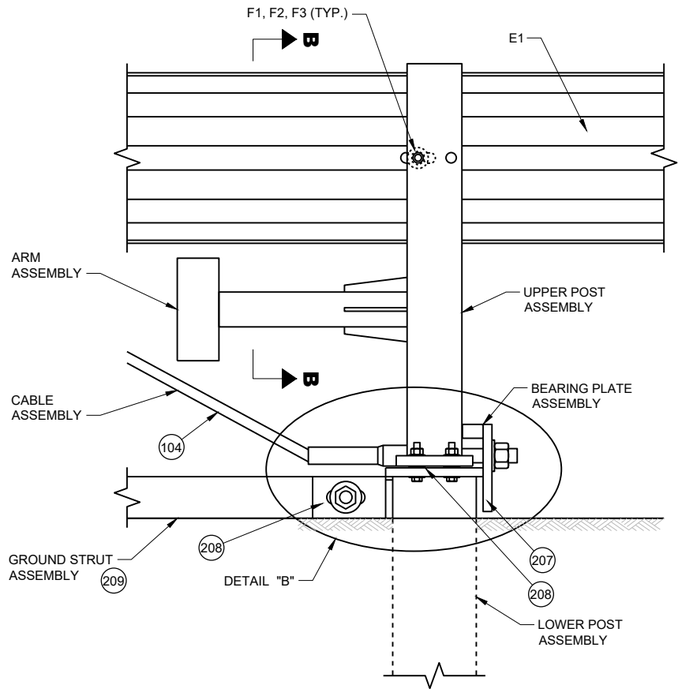
(102) SHOULDER

(103) MAXIMUM SLOPE IS 10:1.

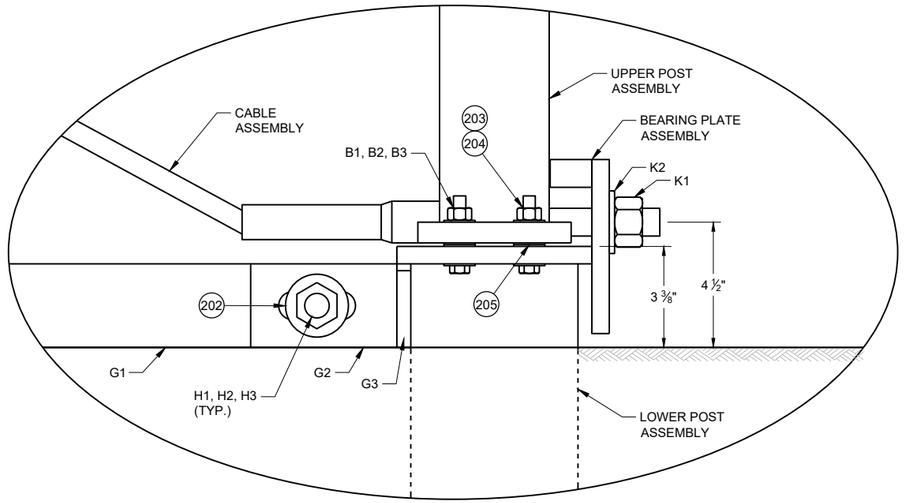
(104) AFTER ASSEMBLY, CABLE IS TO BE TIGHTENED WITHOUT TWISTING THE CABLE.

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

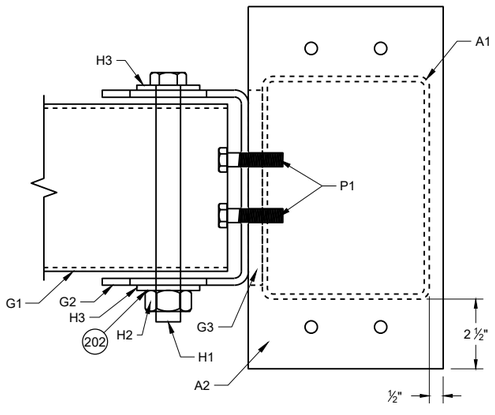


DETAIL "A"



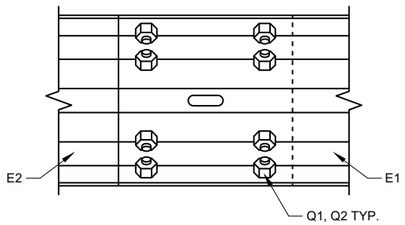
DETAIL "B"

SECTION B - B

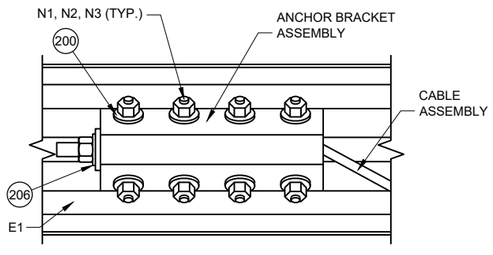


TOP VIEW

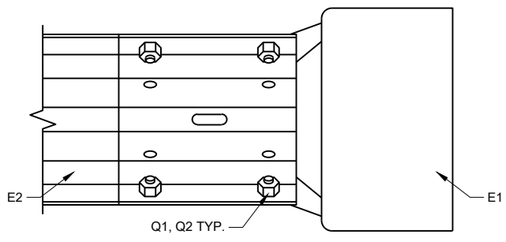
GROUND STRUT CONNECTION DETAIL



DETAIL "C"



DETAIL "D"



DETAIL "E"

GENERAL NOTES

200 INSTALL ONE WASHER UNDER BOLT HEAD AND RAIL AND ON WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

201 INSTALL ONE WASHER UNDER BOLT HEAD AND UPPER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND ARM PLATE.

202 INSTALL ONE WASHER UNDER BOLT HEAD AND GROUND STRUT CONNECTOR AND ONE WASHER BETWEEN NUT AND GROUND STRUT CONNECTOR.

203 INSTALL ONE WASHER UNDER BOLT HEAD AND LOWER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND UPPER POST ASSEMBLY.

204 TORQUE VALUE IS BETWEEN 60 - 75 FT-LB.

205 TWO WASHERS BETWEEN UPPER AND LOWER POST ASSEMBLY.

206 INSTALL ONE WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

207 NO MATERIAL IS TO BE PLACED AGAINST THE VERTICAL FACES OF BEARING PLATE.

208 PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLTS FOR POST ASSEMBLIES AND GROUND STRUT.

209 PREVENT OR REMOVE MATERIALS THAT IMPEDE REMOVAL OF GROUND STRUT.

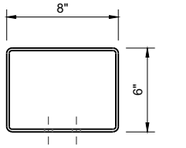
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

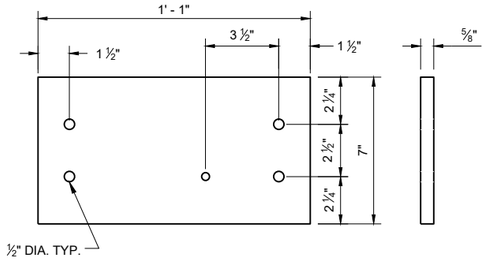
6
SDD 14B47-06b

GENERAL NOTES

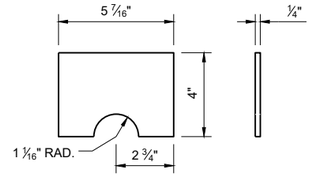
(300) TAP FOR 1/2" AFTER GALVANIZATION



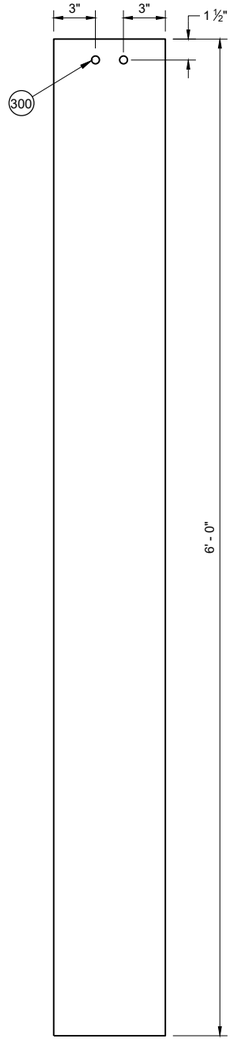
TOP VIEW



LOWER PLATE (A2)

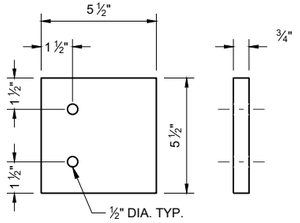


POST GUSSET (A3)

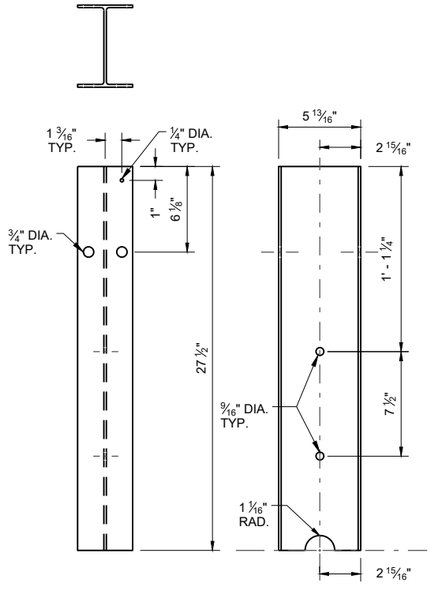


SIDE VIEW

FOUNDATION TUBE (A1)

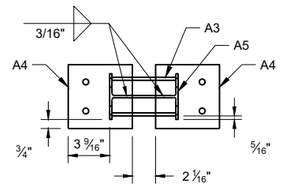


UPPER PLATE (A4)

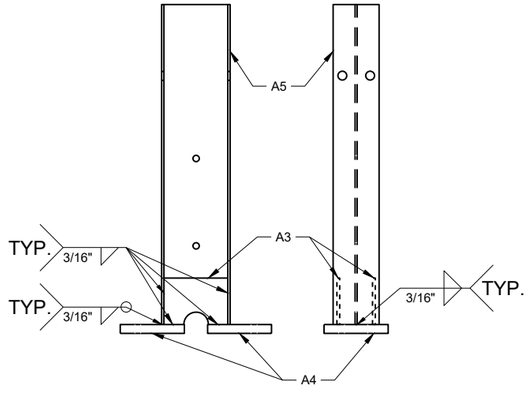


FRONT VIEW SIDE VIEW

TYPE 2 POST (A5)

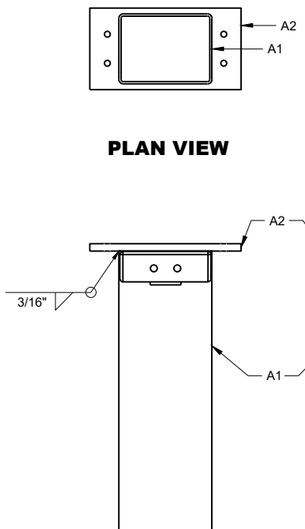


PLAN VIEW

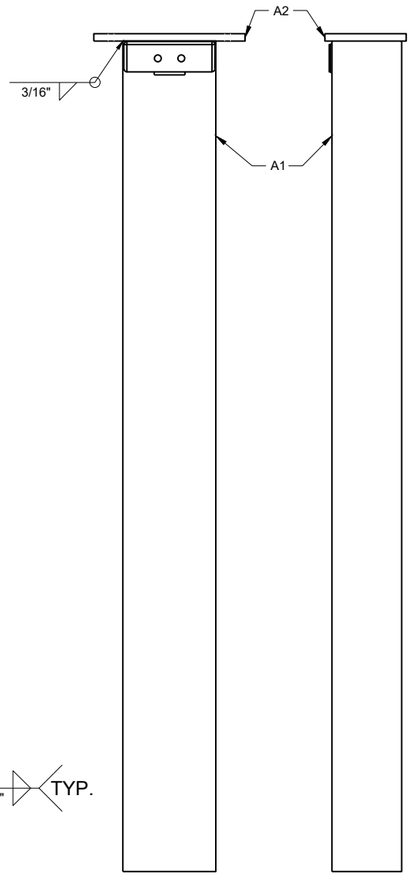


SIDE VIEW FRONT VIEW

UPPER POST ASSEMBLY

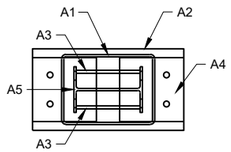


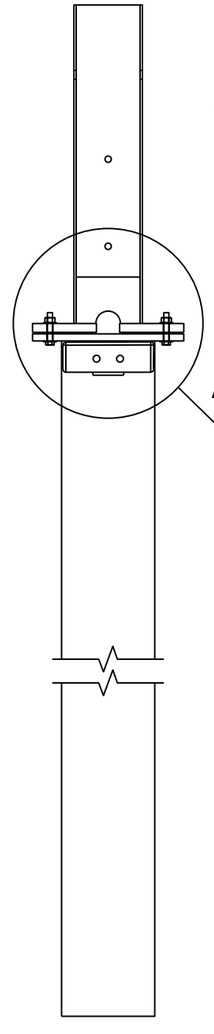
PLAN VIEW



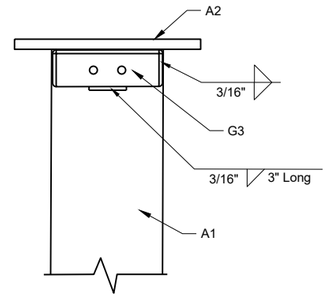
FRONT VIEW SIDE VIEW

LOWER POST ASSEMBLY

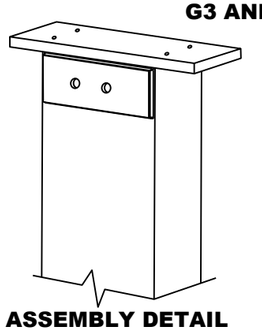




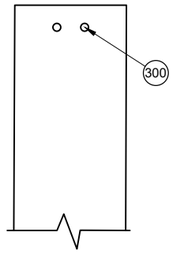
ASSEMBLED POST



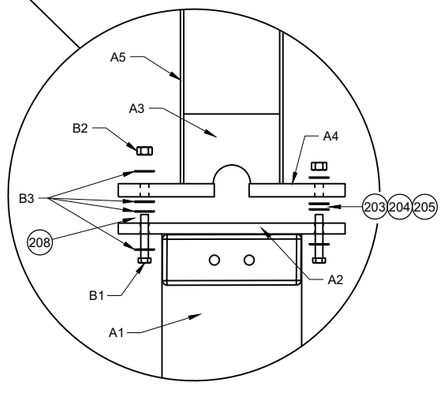
WELDING DETAIL G3 AND A1



ASSEMBLY DETAIL ISOMETRIC



A1

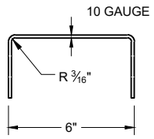


POST CONNECTION DETAIL

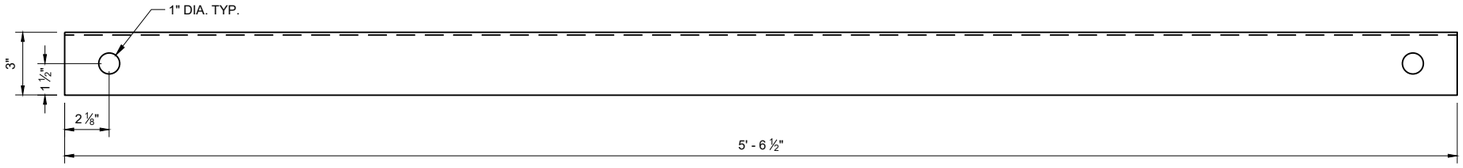
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B47-06c

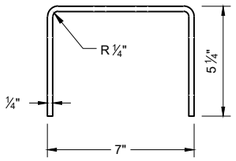


SIDE VIEW

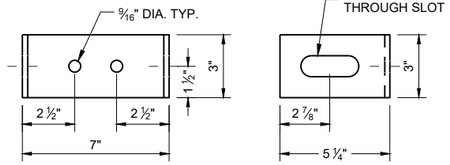


FRONT VIEW

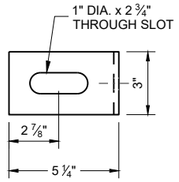
GROUND STRUT CHANNEL (G1)



TOP VIEW

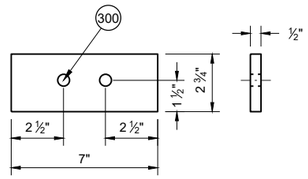


FRONT VIEW

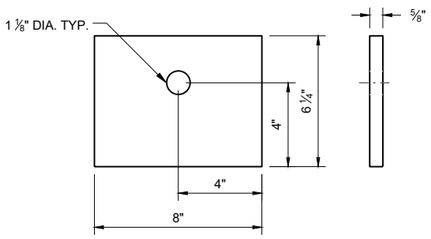


SIDE VIEW

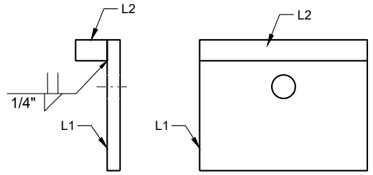
GROUND STRUT CONNECTOR (G2)



GROUND STRUT PLATE (G3)

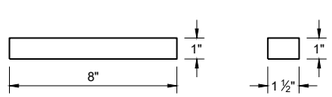


BEARING PLATE (L1)

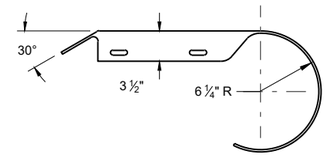


SIDE VIEW FRONT VIEW

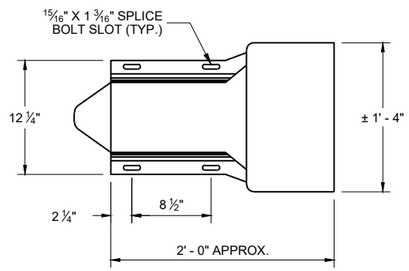
BEARING PLATE ASSEMBLY



BEARING PLATE FLANGE (L2)



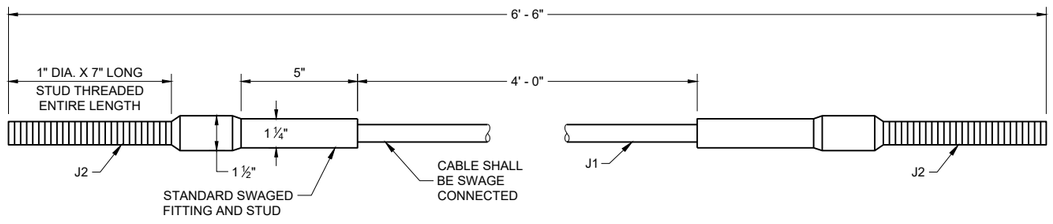
PLAN VIEW



ELEVATION VIEW

ROUNDED BUFFER END (E3)

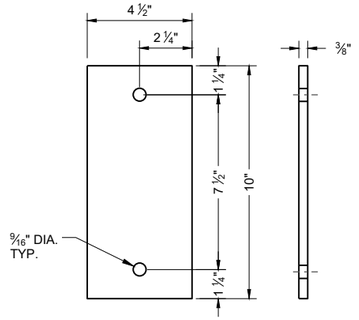
TYPE 2 GUARDRAIL (E1)



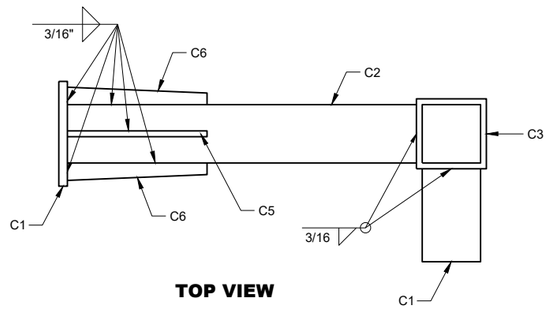
CABLE ASSEMBLY

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

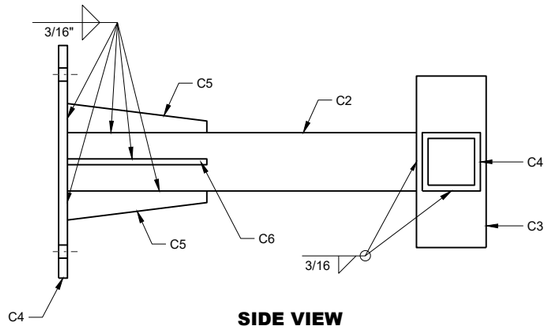
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



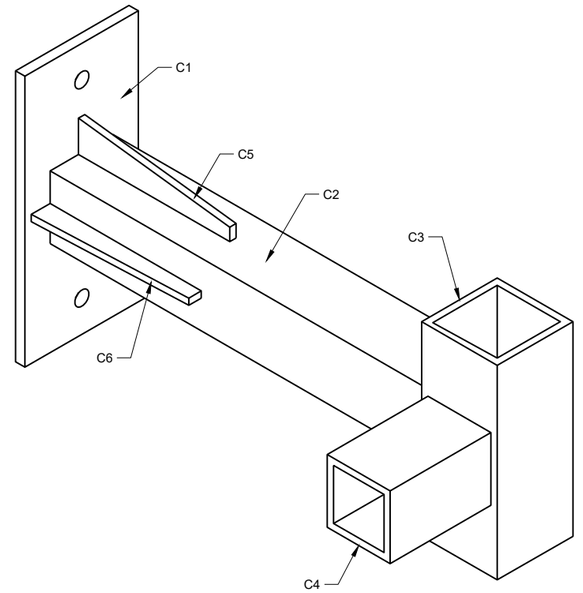
ARM PLATE (C1)



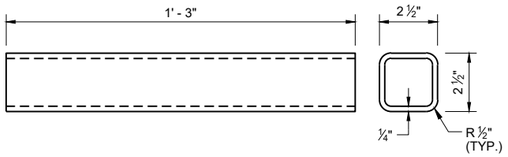
TOP VIEW
ARM ASSEMBLY



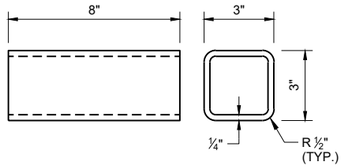
SIDE VIEW
ARM ASSEMBLY



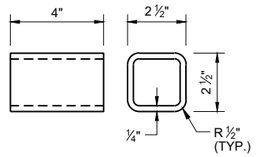
ISOMETRIC VIEW
ARM ASSEMBLY



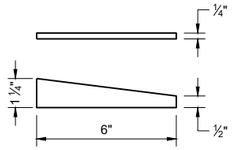
ARM TUBE 1 (C2)



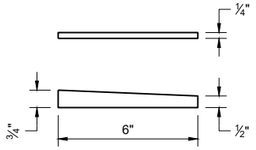
ARM TUBE 2 (C3)



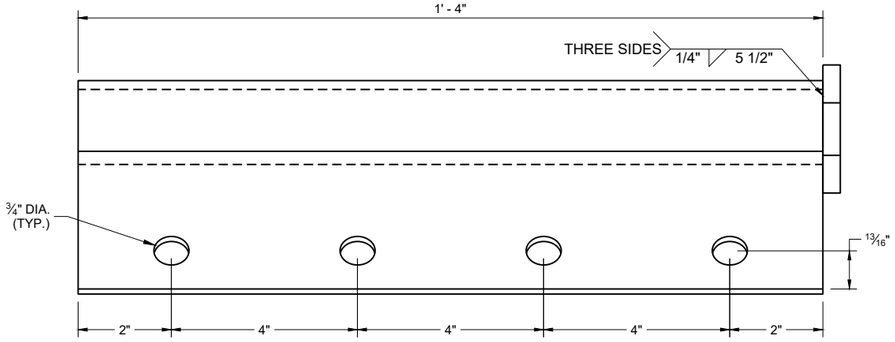
ARM TUBE 3 (C4)

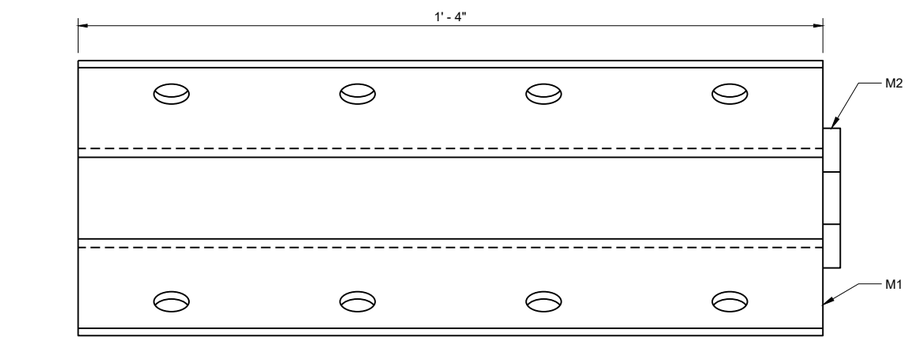


ARM GUSSET PLATE 1 (C5)

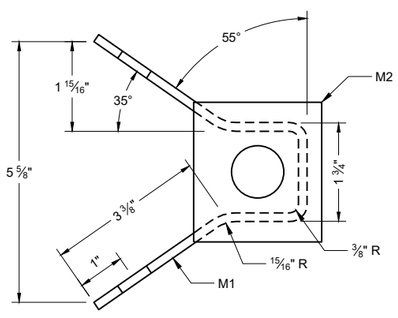


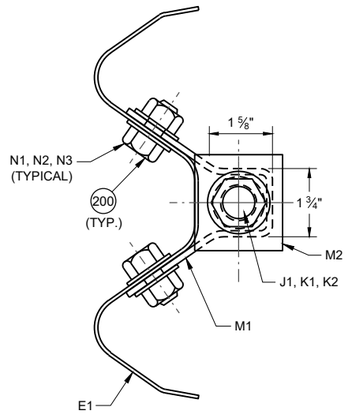
ARM GUSSET PLATE 2 (C6)

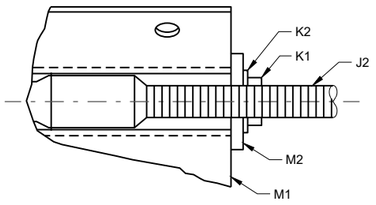




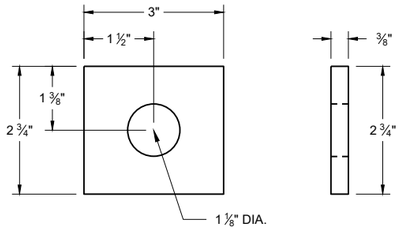
ANCHOR BRACKET (M1, M2)







SECTION A - A



ANCHOR BRACKET BEARING PLATE (M2)

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	TYPE 2 FOUNDATION TUBE	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
A2	LOWER PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	5/8" THICKNESS
A3	POST GUSSET	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
A4	UPPER PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/4" THICKNESS
A5	TYPE 2 POST	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI, w6x9 or w6x8.5	
B1	BREAKAWAY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED . PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	7/16" DIA.
B2	BREAKAWAY BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/16" DIA.
B3	BREAKAWAY BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
C1	ARM ASSEMBLY PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/8" THICKNESS
C2	ARM ASSEMBLY TUBE 1	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
C3	ARM ASSEMBLY TUBE 2	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 3" x 3" x 1/4"
C4	ARM ASSEMBLY TUBE 3	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 2 1/2" x 2 1/2" X 1/4"
C5	ARM ASSEMBLY GUSSET PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
C6	ARM ASSEMBLY GUSSET PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
D1	ARM ASSEMBLY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	1/2" DIA.
D2	ARM ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	1/2" DIA.
D3	ARM ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
E1	TYPE 2 GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E2	BEAM GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E3	BEAM GUARD ROUNDED BUFFER END	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
F1	POST BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
F2	POST BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
F3	POST BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
G1	GROUND STRUT CHANNEL	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/2" x 11 3/4" x 10 GAUGE
G2	GROUND STRUT CONNECTOR	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
G3	GROUND STRUT PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/2" THICKNESS

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B47-06f

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
H1	GROUND STRUT BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	7/8" DIA.
H2	GROUND STRUT BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/8" DIA.
H3	GROUND STRUT BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD 5/8" ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
J1	BCT CABLE	AASHTO M30 / ASTM A741 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS), 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS) TYPE II OR IIC, CLASS C ZINC COATED MIN. BREAKING STRENGTH OF 42.7 KIPS	3/4" DIA.
J2	BCT CABLE	UNC 1" ASTM A576 GRADE 1035 SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. MIN BREAKING STRENGTH OF 42.7 KIPS ASME B30.26 "FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING IN TO CONNECTION: NAME OF MANUFACTURE OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE FOR ALLOY EYEBOLTS."	
K1	CABLE ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1" DIA.
K2	CABLE ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1	1" DIA.
L1	BEARING PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	5/8" THICKNESS
L2	BEARING PLATE FLANGE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1" THICKNESS
M1	BEAM GUARD ANCHOR BRACKET	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	
M2	BEAM GUARD ANCHOR END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/8" THICKNESS
N1	ANCHOR BRACKET BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
N2	ANCHOR BRACKET BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
N3	ANCHOR BRACKET BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 /ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
P1	FOUNDATION TUBE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
Q1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
Q2	SPLICE NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	5/8" DIA.

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MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

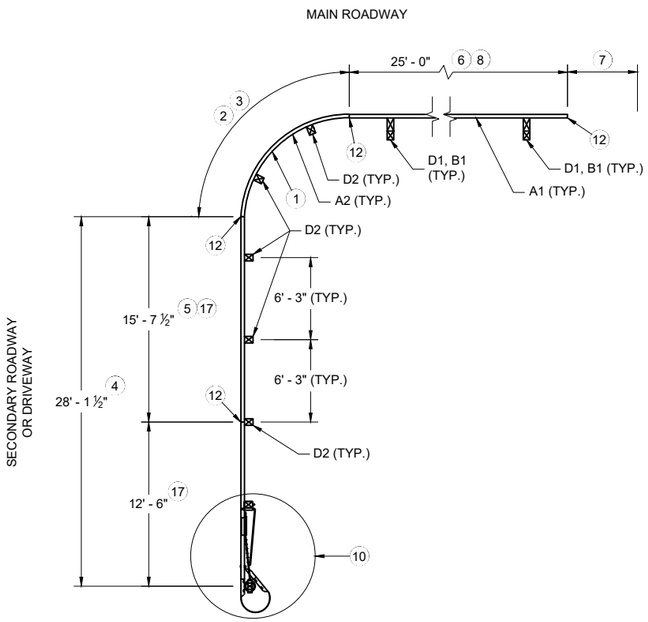
APPROVED
December 2024
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

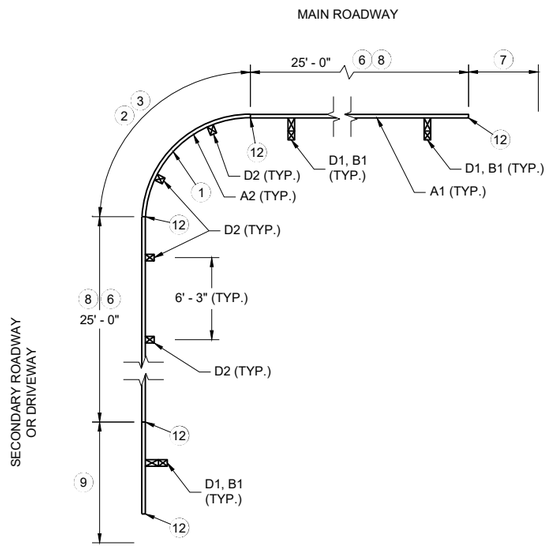
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SDD 14B47-06g



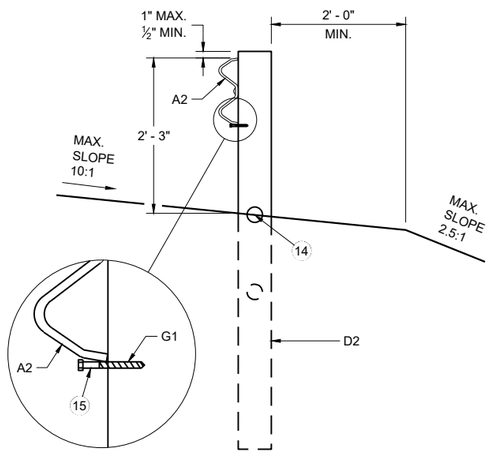
PLAN VIEW

SHORT RADIUS BEAM GUARD WITH SHORT RADIUS TERMINAL ON SECONDARY ROAD OR DRIVEWAY

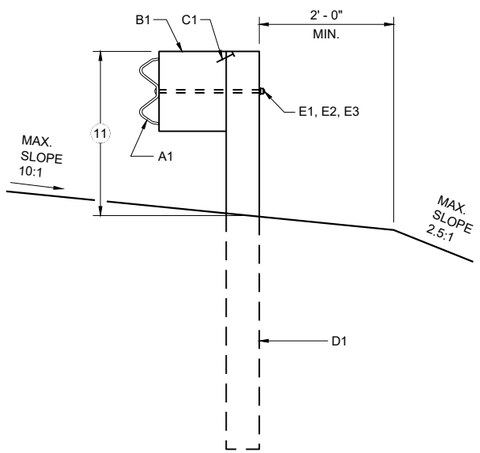


PLAN VIEW

SHORT RADIUS BEAM GUARD WITH EAT, ADDITIONAL BEAM GUARD OR TRANSITION TO RIGID BARRIER ON SECONDARY ROAD OR DRIVEWAY



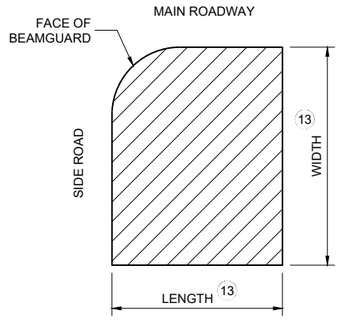
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



BEAM GUARD POSTS IN HEIGHT TRANSITION

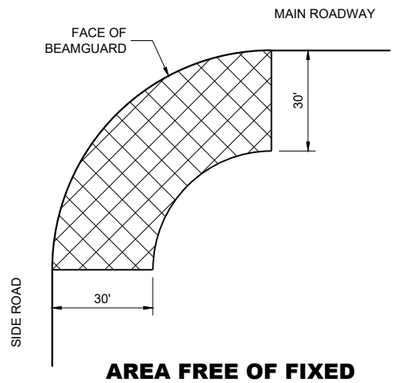
TABLE FOR RADIUS OF 32' AND LESS

RADIUS (FT)	LENGTH (FT)	WIDTH (FT)
8	25	15
16	30	15
24	40	20
32	50	30

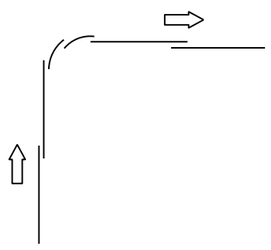


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AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS



AREA FREE OF FIXED OBJECTS FOR RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

SEE SDD 14B42 FOR MORE INFORMATION ON BEAM GUARD INSTALLATION, PARTS, MATERIALS, AND INSTALLATION INFORMATION.

GALVANIZE PARTS AFTER FABRICATION.

WELDING TO FOLLOW CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI / AWS D1.1.

UNLESS NOTED OTHERWISE, ALL PLATES ARE FLAT AND FREE OF WARP.

UNLESS NOTED OTHERWISE, ALL EDGES ARE SMOOTH, STRAIGHT AND VERTICAL.

ALL CUTS AND HOLES, EXCEPT IN BEAM GUARD RAIL ARE TO BE MACHINED OR MACHINE FLAME CUT.

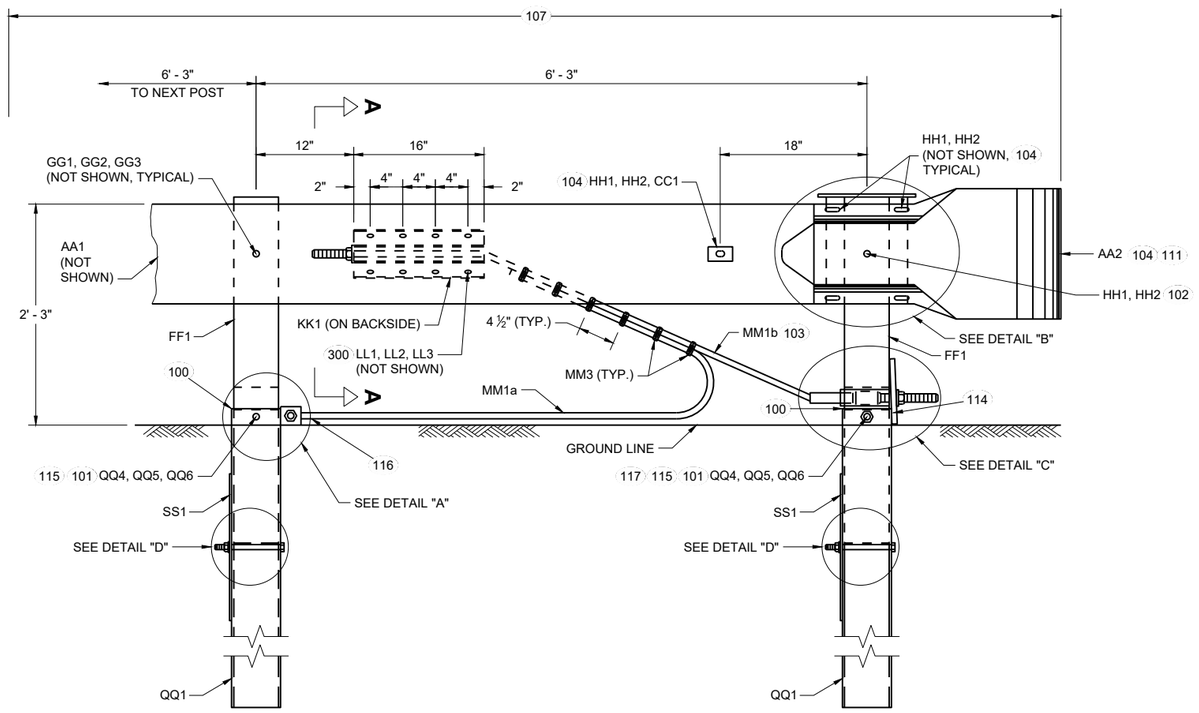
UNLESS NOTED OTHERWISE, CUT OR PROVIDE BOLTS THAT ARE ¼" TO ½" BEYOND THE NUT.

DRAWINGS ARE NOT TO SCALE.

1. RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS GUARD MEASURED ALONG TRAFFIC SIDE OF RAIL. RADIUS BETWEEN 8 FEET TO 150 FEET. SEE PLAN FOR REQUIRED RADIUS. BEAM GUARD RAIL IN RADIUS IS SHOP BENT. ODD RAIL LENGTH OR FIELD CUTS MAY BE REQUIRED.
2. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE USED IN THE RADIUS. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE SPACED 6' - 3". SEE PLAN FOR NUMBER OF CONTROLLED RELEASE (CRT) POSTS.
3. WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAIL IS RESTED ON TOP OF LAG SCREW.
4. MINIMUM LENGTH OF BEAM GUARD ALONG SIDE ROAD OR DRIVEWAY TO INSTALL SHORT RADIUS TERMINAL. BEAM GUARD IS PAID WITH BEAM GUARD ITEM.
5. ODD LENGTH OF BEAM GUARD REQUIRED TO INSTALL SHORT RADIUS TERMINAL.
6. MINIMUM AMOUNT OF BEAM GUARD TO BE INSTALLED PRIOR TO TRANSITION TO RIGID BARRIER. ADDITIONAL BEAM GUARD, OR EAT. BEAM GUARD PAID FOR WITH BEAM GUARD ITEM. SEE PLANS FOR MORE DETAIL.
7. BEAM GUARD, EAT, OR TRANSITION TO RIGID BARRIER. SEE PLAN.
8. TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD OR EAT.
9. ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD SHOWN. SEE PLAN FOR DETAILS.
10. SHORT RADIUS TERMINAL (SEE OTHER DETAILS).
11. HEIGHT VARIES. SEE NOTE 8 AND 8 .
12. BEAM GUARD RAIL SPLICE LOCATION. SPLICE LOCATION REQUIRES PART F1 AND F2. SEE SDD 14B42 FOR DETAILS.
13. SEE TABLE FOR VALUES.
14. MAXIMUM HEIGHT FOR CENTER OF HOLE IS ¾" ABOVE FINISHED GROUND ±1".
15. DRILL POST $^{15}/_{64}$" DIA. PILOT HOLE. DO NOT HAMMER LAG SCREW INTO POST.
16. SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.
17. TOP OF RAIL HEIGHT IS 27" WHEN USING A SHORT RADIUS TERMINAL (CRT).

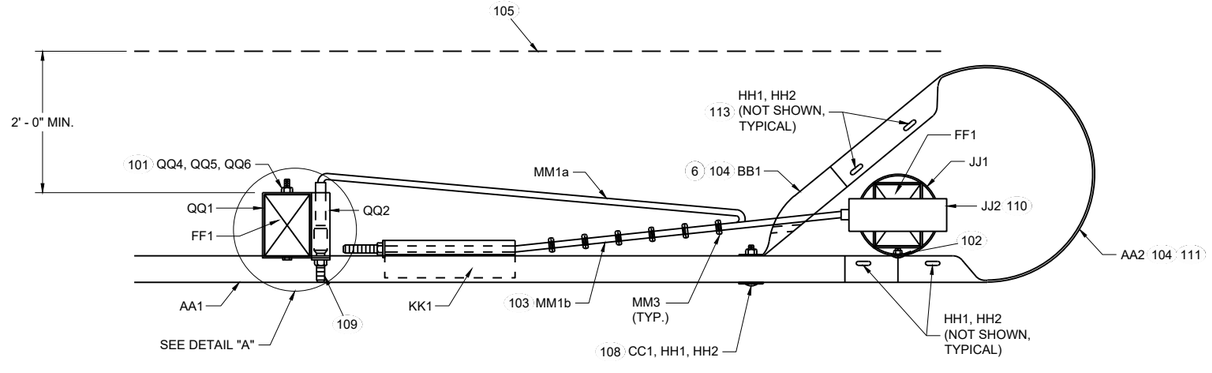
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PROFILE VIEW

SHORT RADIUS TERMINAL



TOP VIEW

SHORT RADIUS TERMINAL

GENERAL NOTES

100 TOP OF FOUNDATION TUBE 2 INCHES MAXIMUM ABOVE FINISHED GROUND.

101 WASHERS REQUIRED BETWEEN BOLT HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

102 SPLICE BOLT AND NUT CONNECTS BEAM GUARD RAIL, W-BEAM SECTION BUFFER, AND STEEL PIPE ASSEMBLY. NO WASHER REQUIRED. SEE DETAIL "B".

103 CABLE IS TAUT.

104 ADJUST AA2 AND BB1 TO FIT.

106 BREAK POINT OF SHOULDER.

106 TACK WELD CABLE CONNECTOR TUBE PLATE TO CABLE CONNECTION TUBE. SEE DETAIL "A" PROFILE VIEW.

107 PAY LIMIT FOR BEAM GUARD.

108 SQUARE WASHER BETWEEN HEAD OF BOLT AND TRAFFIC FACE OF BEAM GUARD. ROUND WASHER REQUIRED BETWEEN NUT AND BB1.

109 CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS ½" TOLERANCE). DEBURR AFTER CUTTING.

110 SEE STEEL PIPE ASSEMBLY DETAILS.

111 ATTACH UU2 WITH UU3. SHOP APPLY UU1 TO UU2.

112 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA1 TO AA2.

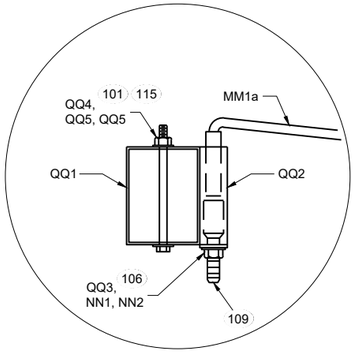
113 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.

114 NO MATERIAL IS TO BE PLACED AGAINST THE VERTICAL FACES OF BEARING PLATE.

115 PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLTS FOR POST AND SOIL TUBE.

116 PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLT. PLACE CABLE ON TOP OF MATERIAL.

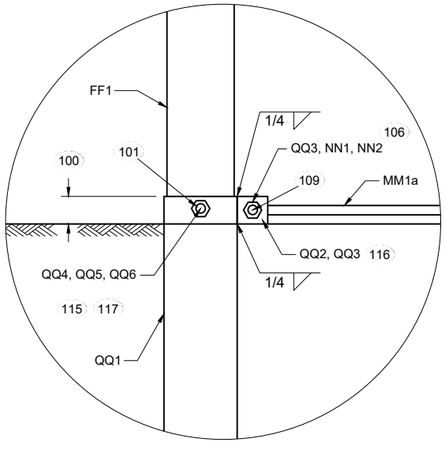
117 ONE WASHER BETWEEN BOLD HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.



TOP VIEW

DETAIL "A"

(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



PROFILE VIEW

DETAIL "A"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

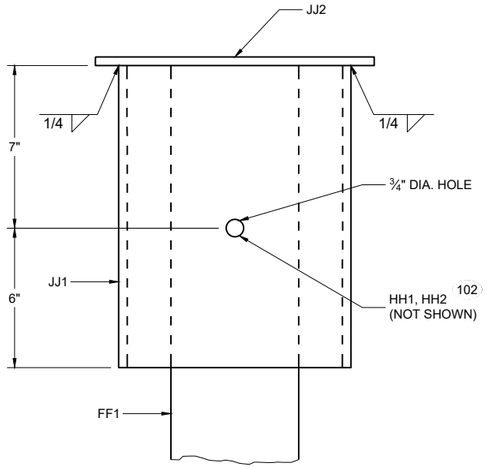
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-03b

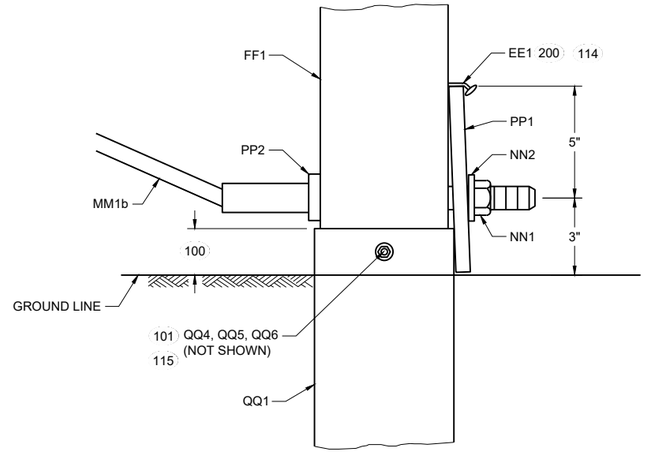
GENERAL NOTES

200 TWO (2) NAILS SPACED 4 INCHES CENTER TO CENTER.



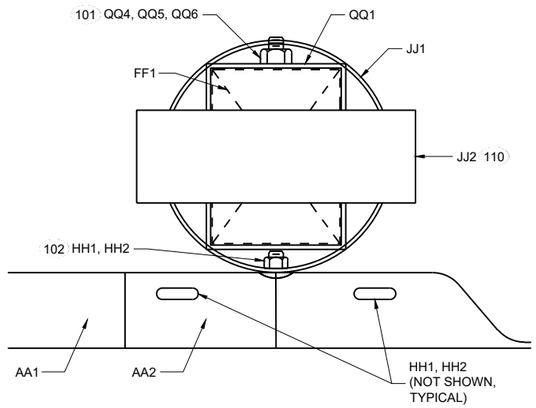
PROFILE VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY
(BEAM GUARD AND W BEAM END SECTION NOT SHOWN)



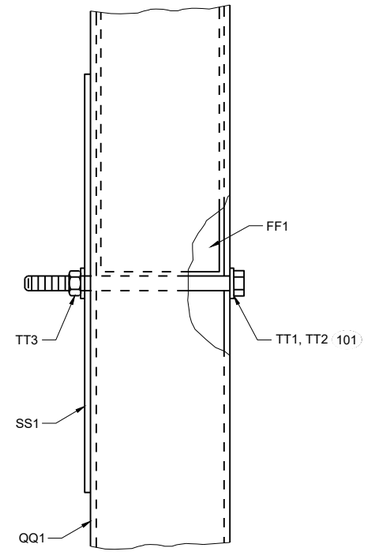
PROFILE VIEW

DETAIL "C"



PLAN VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY



PROFILE VIEW

DETAIL "D"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

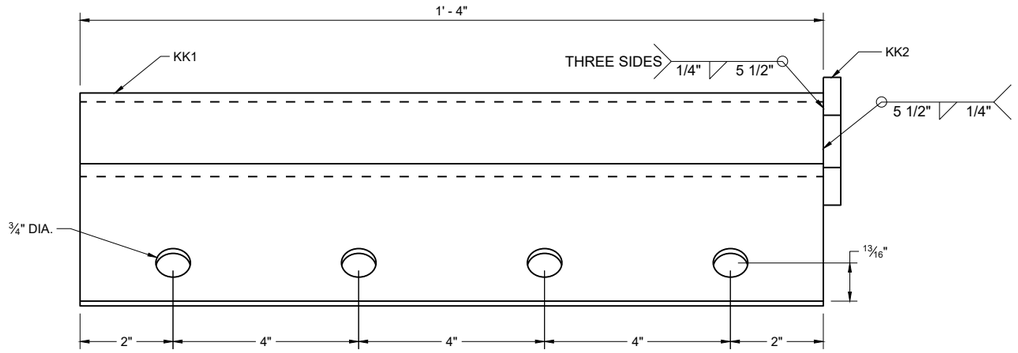
SDD 14B53-03c

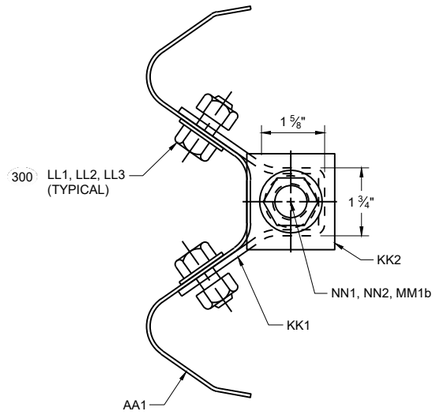
6

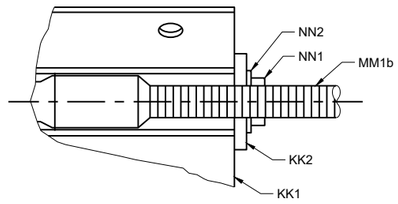
SDD 14B53-03c

GENERAL NOTES

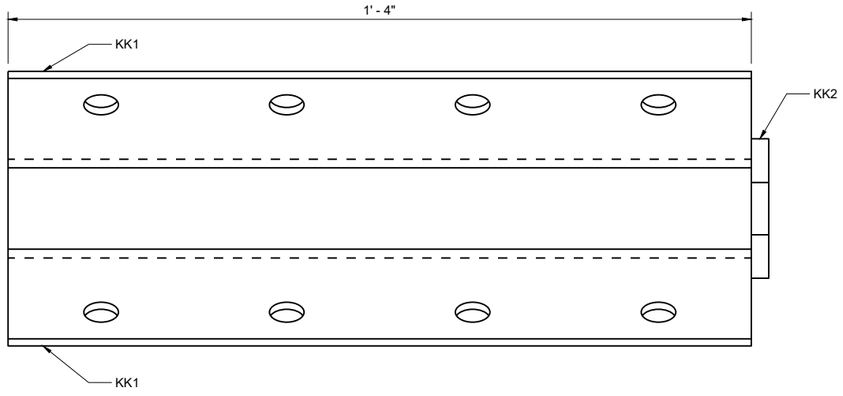
300 WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT (8) LL1 AND LL3 REQUIRED. SIXTEEN (16) LL2 REQUIRED.

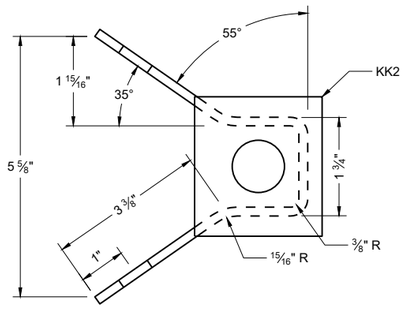




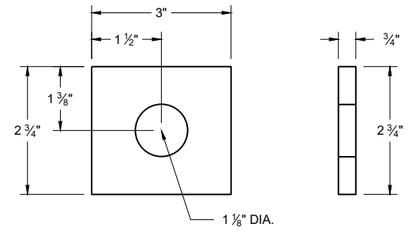


SECTION A - A





ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)

6

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SDD 14B53-03d

SDD 14B53-03d

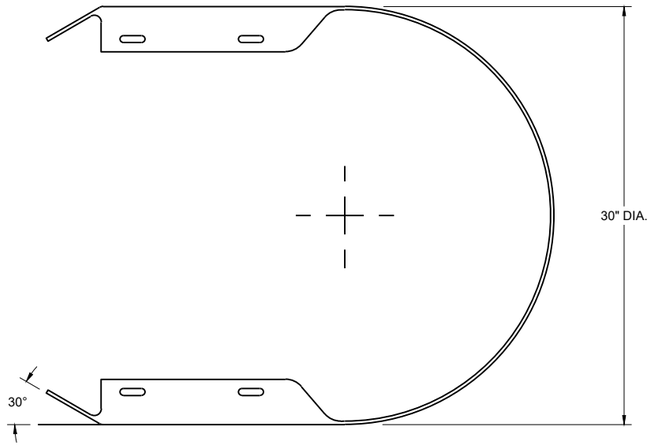
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
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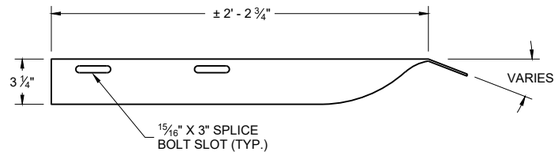
GENERAL NOTES

400 CROSS SECTION OF PART IS TO FIT OVER AA1 .

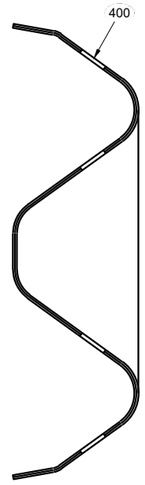
401 CROSS SECTION OF PART IS TO FIT OVER OR UNDER AA1 .



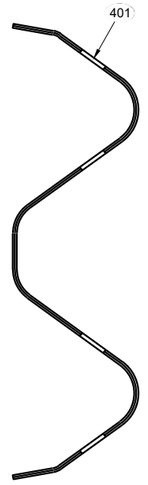
TOP VIEW



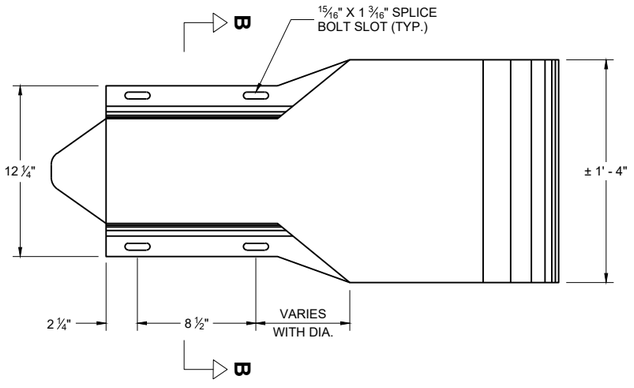
TOP VIEW



SECTION B -B

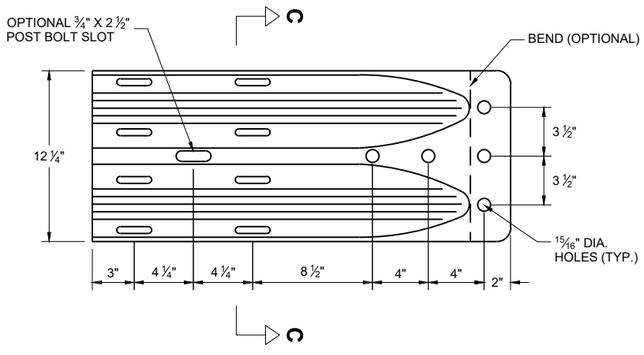


SECTION C -C



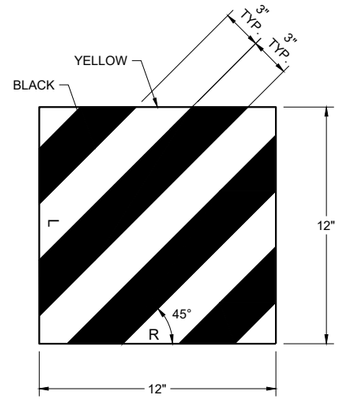
PROFILE VIEW

W BEAM
END SECTION BUFFER (AA2)



PROFILE VIEW

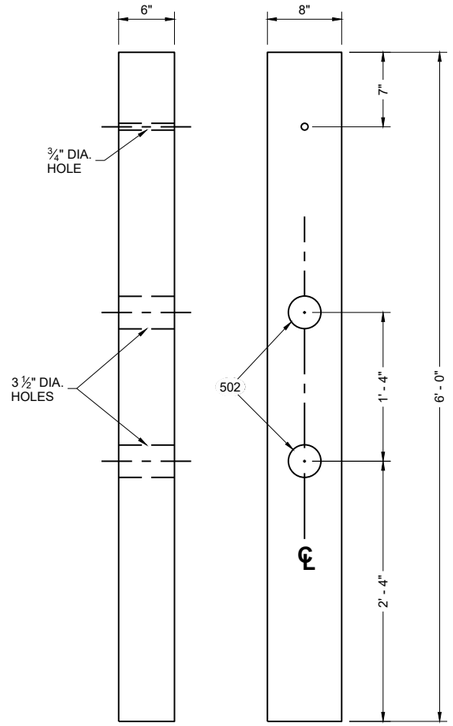
W BEAM
TERMINAL CONNECTOR (BB1)



REFLECTIVE SHEETING (UU1, UU2)

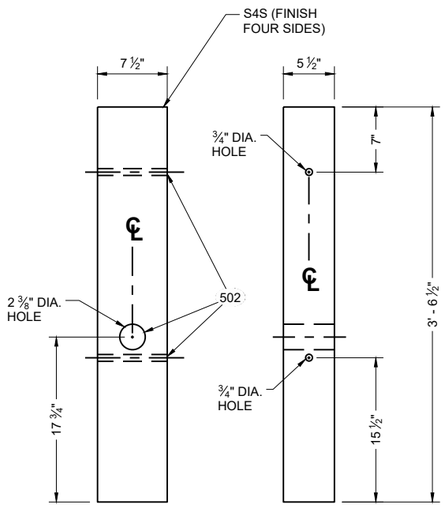
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
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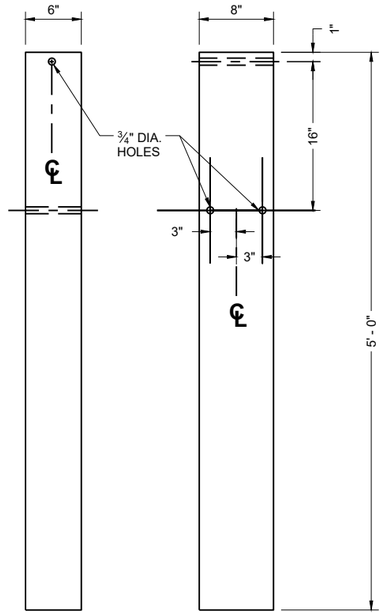
FRONT VIEW SIDE VIEW

CONTROLLED RELEASE POST (CRT) (DD2)



FRONT VIEW SIDE VIEW

WOOD BREAKAWAY POST (FF1)



FRONT VIEW SIDE VIEW

FOUNDATION TUBE (QQ1) 500

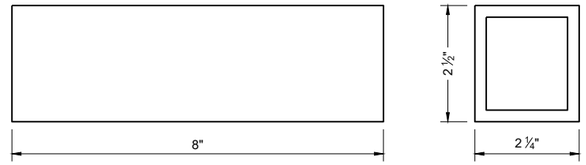
GENERAL NOTES

500 SEE DETAIL "D" FOR LOCATION AND ATTACHMENT OF SS1.

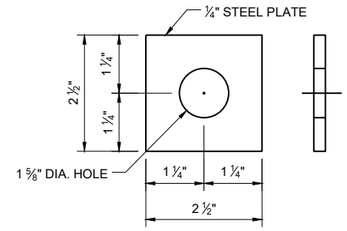
501 FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

502 LOCATE HOLES ON THE CENTERLINE OF THE SIDE OF THE POST.

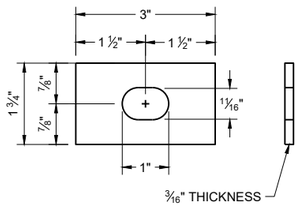
503 MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE 109 .



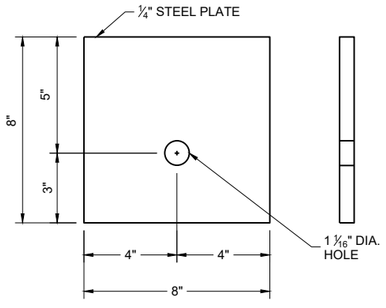
FOUNDATION TUBE - ANCHOR CABLE TUBE (QQ2)



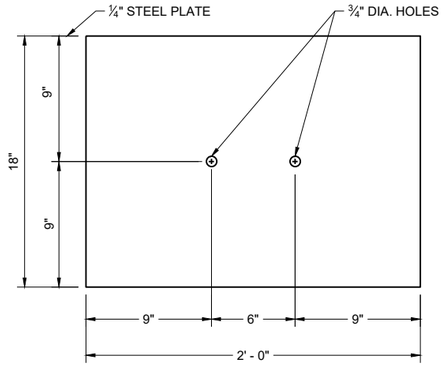
ANCHOR CABLE TUBE END PLATE (QQ3)



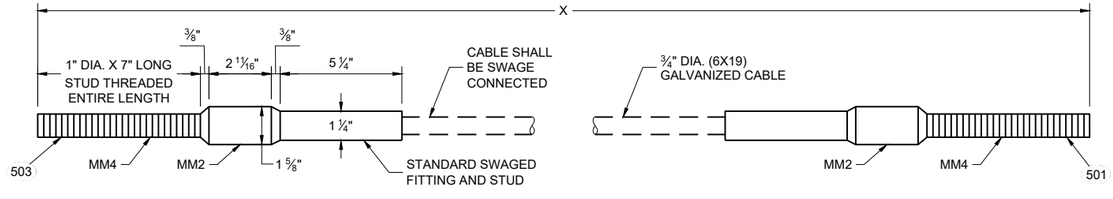
RECTANGULAR PLATE WASHER (CC1)



BEARING PLATE (PP1)



SOIL PLATE (SS1)



CABLE ASSEMBLY (MM1a, MM1b)

"X" LENGTH

MM1b	9' - 0"
MM1b	6' - 8"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
A2	BEAM GUARD RAIL - SHOP BENT	INDICATE ON BACK OF RAIL THE RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.	
		AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42
C1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)	
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42
D2	POST-CRT-WOOD	WISDOT SPEC. 614	
E1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
E2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
E3	POST BOLT - NUT	AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
F1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	1/2" DIA. 6" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
H2	DELINEATION - SHEETING	YELLOW OR WHITE	
		WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
AA1	BEAM GUARD RAIL - PUNCHED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
AA2	BEAM GUARD RAIL - END SECTION BUFFER	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL CONNECTOR MODIFIED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE WASHER	AASHTO M180	
		GALV. AASHTO M111 / ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
		WISDOT SPEC. 614	
GG1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	3/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-03g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	3/8" DIA. SEE 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
HH1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 3/8" X 4" X 1' - 0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
LL1	ANCHOR BRACKET - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM2	ANCHOR CABLE - SWAGE FITTING	ASTM A576 GRADE 1035	
		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	3/4"
		ASTM A153 HOT DIP CLASS D	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
NN1	ANCHOR CABLE - NUT	ASTM A563 GRADE A	1" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-03h

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
PP1	BEARING PLATE AT POST	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
PP2	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	2" DIA. x 6" LONG
QQ1	FOUNDATION TUBE	ASTM A500 GRADE B	8" X 6" X 3/16"
		GALV. AASHTO M111 / ASTM A123	
QQ2	SHORT RADIUS - FOUNDATION TUBE - ANCHOR CABLE - TUBE	ASTM A500 GRADE B	DIMENSIONS 2 1/2" X 2 1/4" X 1/4" X 8"
		GALV. AASHTO M111 / ASTM A123	
QQ3	SHORT RADIUS - SOIL TUBE - ANCHOR CABLE - TUBE - END PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 2 1/2" X 2 1/2" X 1/4"
		GALV. AASHTO M111 / ASTM A123	
QQ4	GROUND STRUT AND YOKE - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
		UNC	
QQ5	GROUND PLATE AND YOKE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
QQ6	GROUND STRUT AND YOKE - NUT	HEAVY HEX	5/8 DIA.
		UNC	
		ASTM A563 GRADE A	
		OVER TAPPED NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	

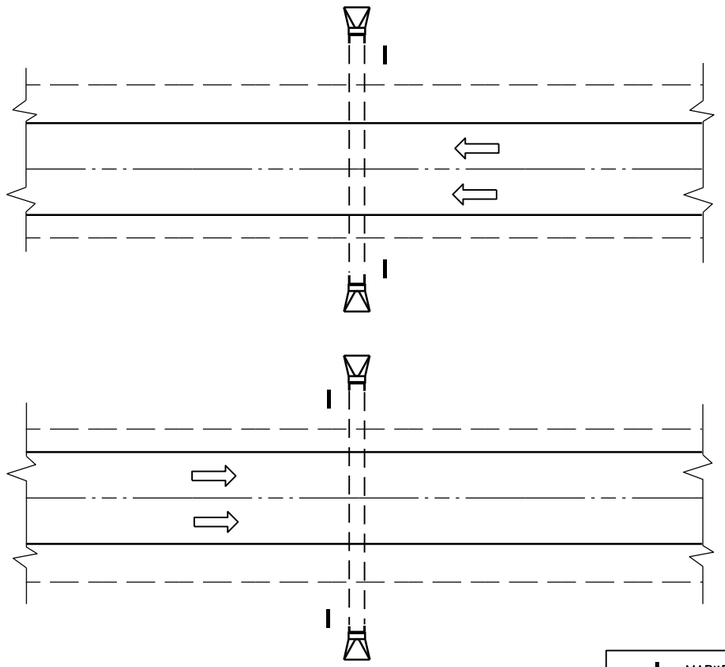
PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
SS1	SOIL PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / A123	
TT1	SOIL PLATE - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8 DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
TT2	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
TT3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
UU1	OBJECT MARKER - SHEETING	MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND COLOR FOR SHEETING. SHEETING TYPE FOR MARKER.
		WISDOT SPEC 637 TYPE F	
		APPROVED PRODUCT LIST	
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS	
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

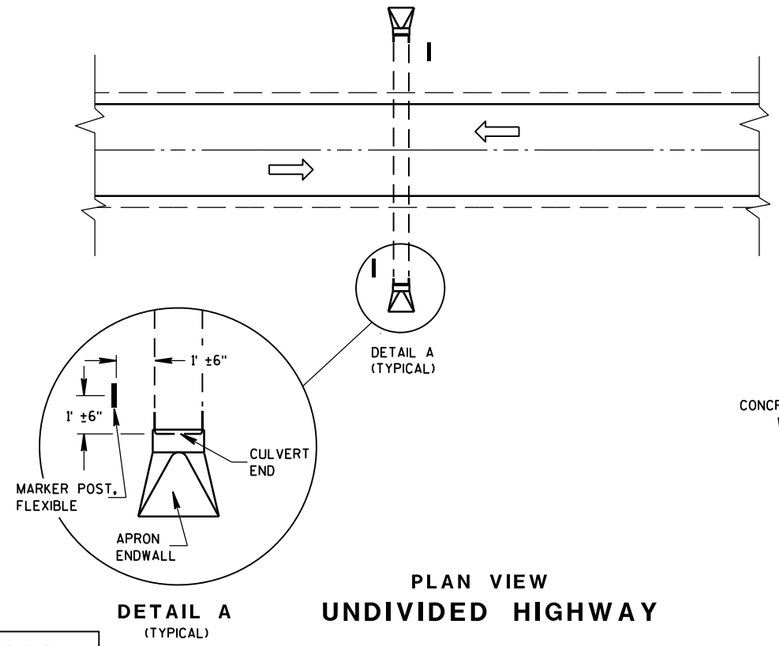
APPROVED
December 2024 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

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SDD 14B53-03i



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

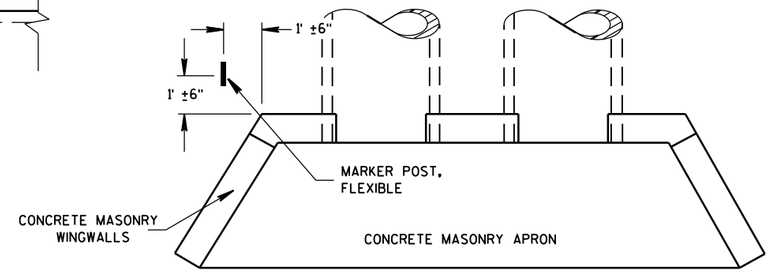
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

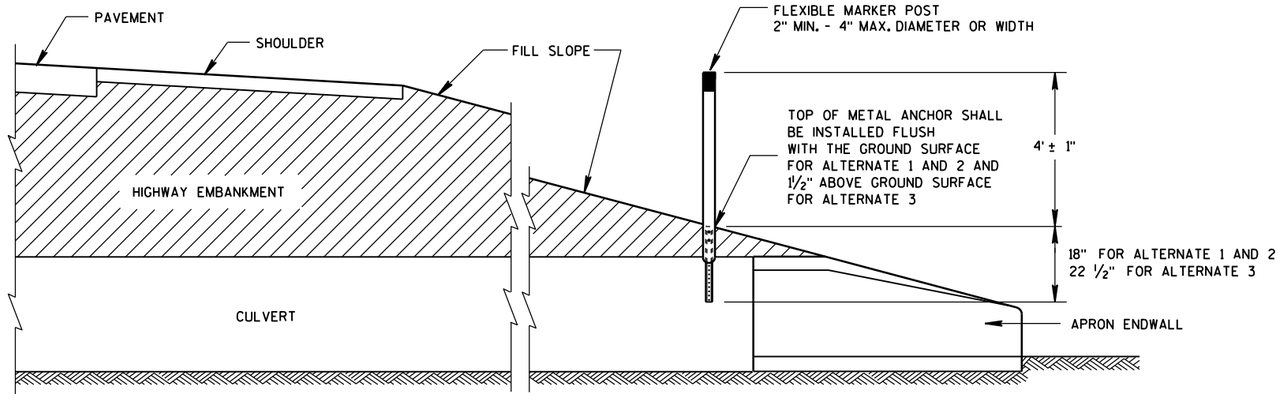
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

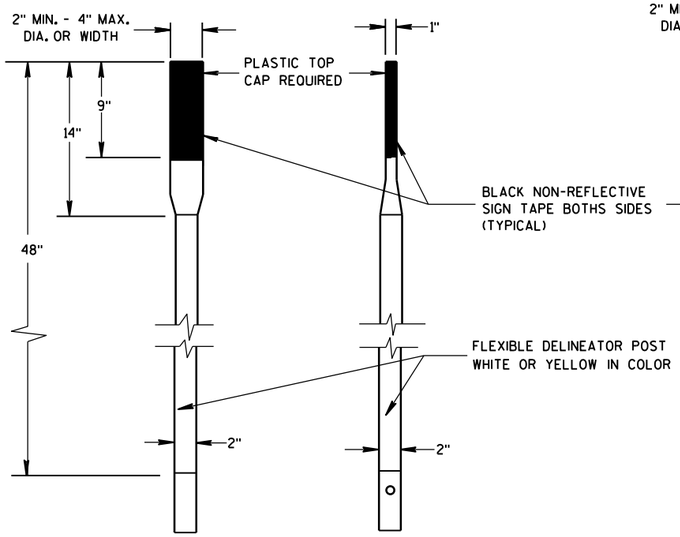
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

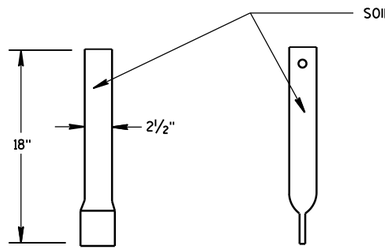
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S.D.D. 15 A 3-2a

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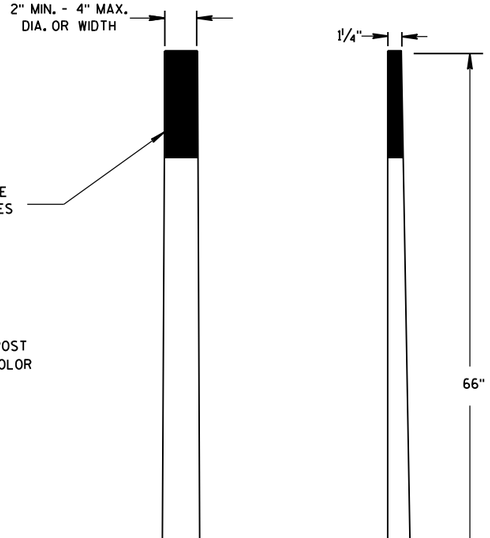
S.D.D. 15 A 3-2a





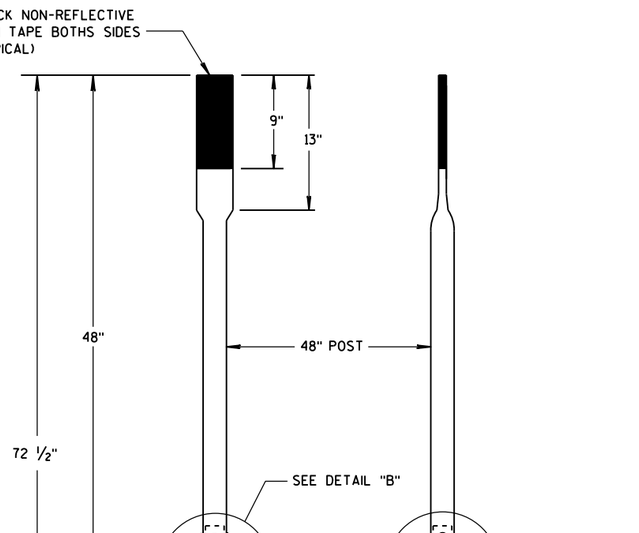
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

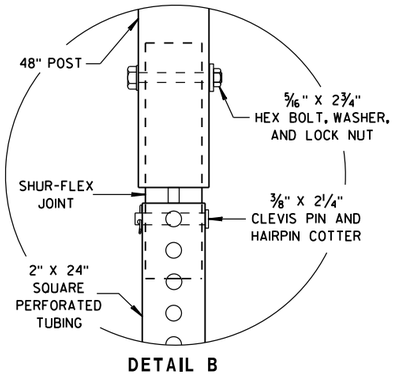
ALTERNATE 2



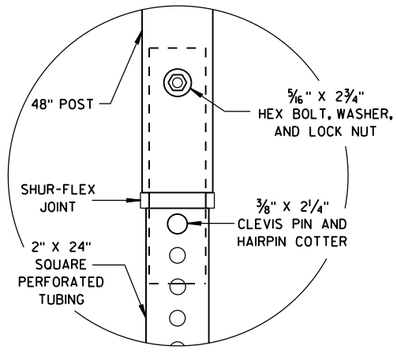
FRONT VIEW SIDE VIEW

ALTERNATE 3

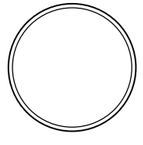
FLEXIBLE MARKER POSTS



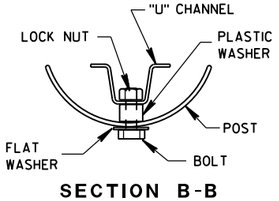
DETAIL B



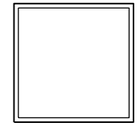
DETAIL C



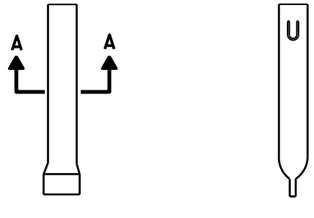
SECTION A-A



SECTION B-B

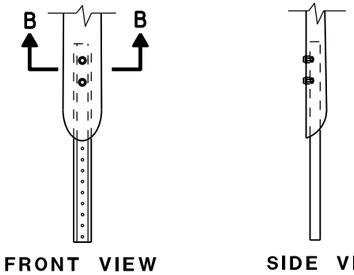


SECTION C-C



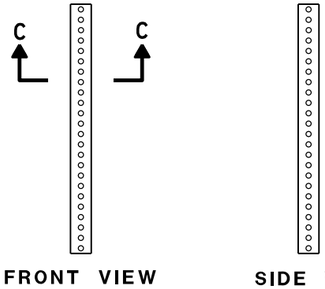
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

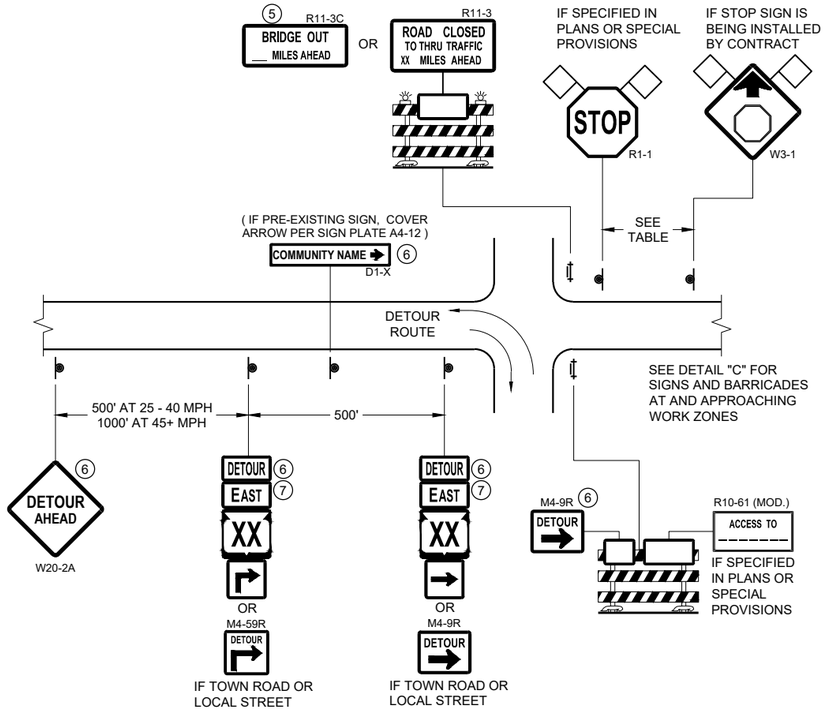
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

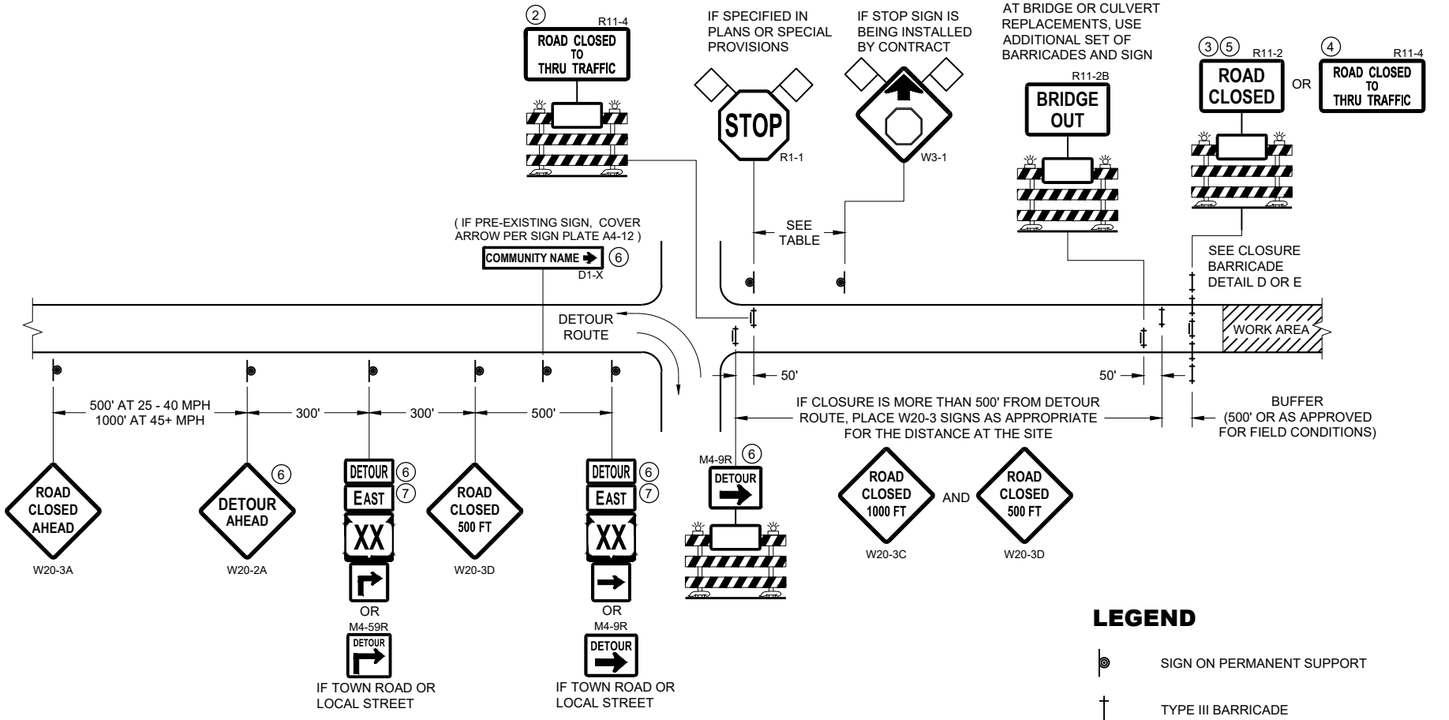
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S.D.D. 15 A 3-2b



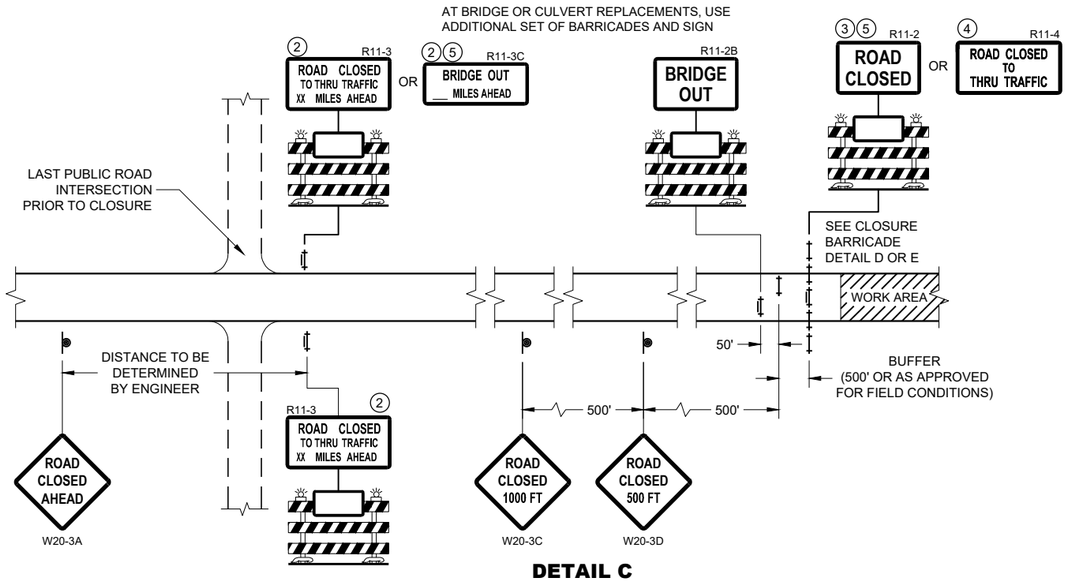
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

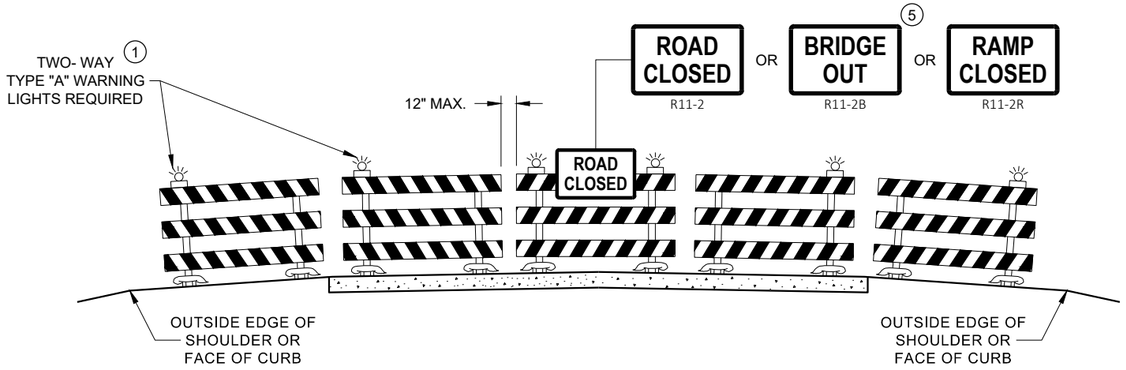
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

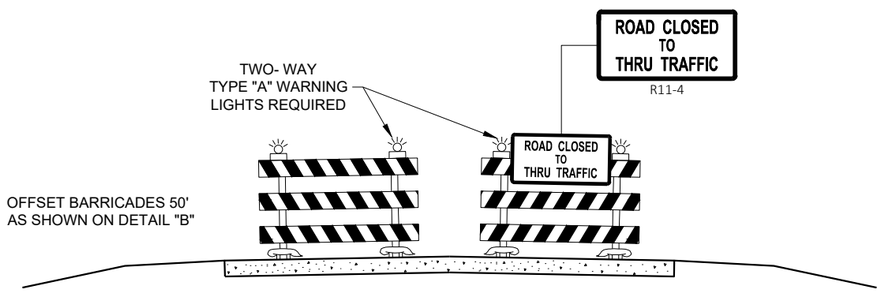
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SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C02 - 09b

6

SDD 15C02 - 09b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

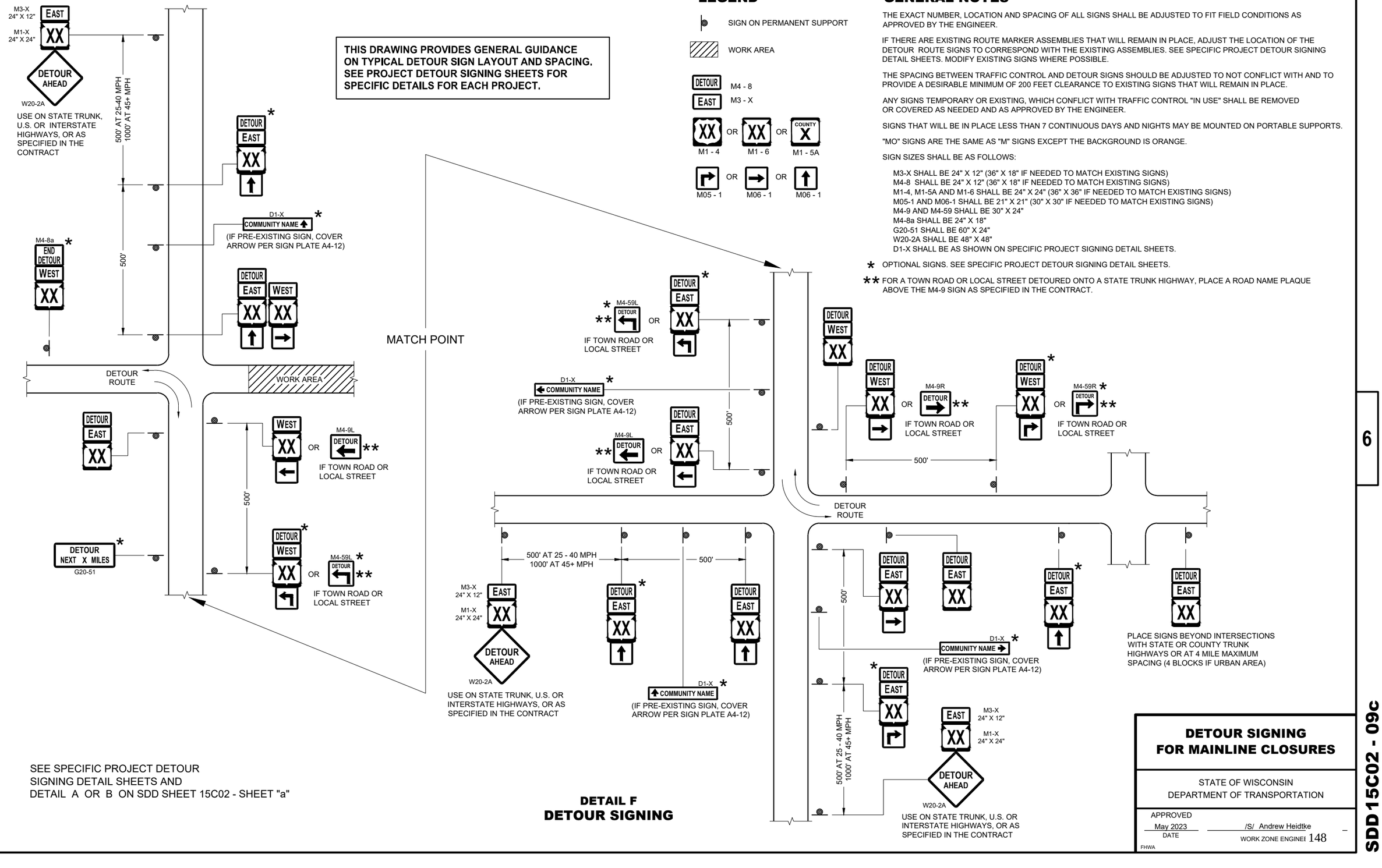
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

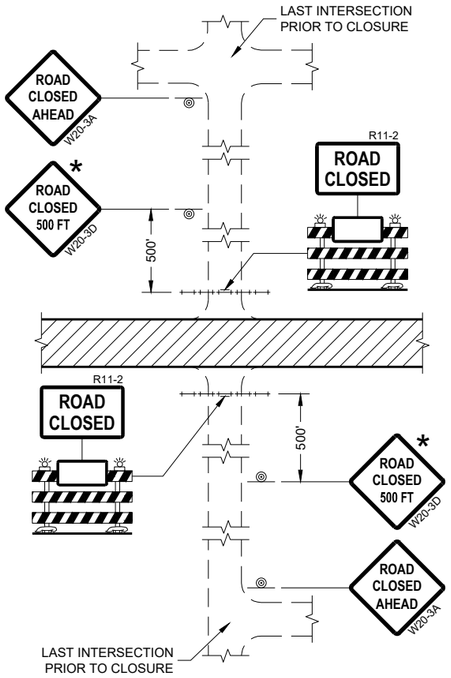
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

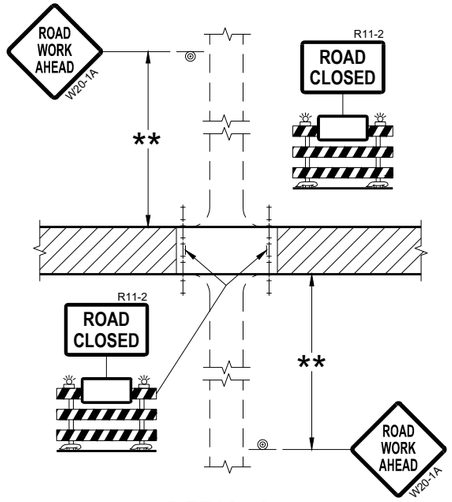
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SDD 15C02 - 09c



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

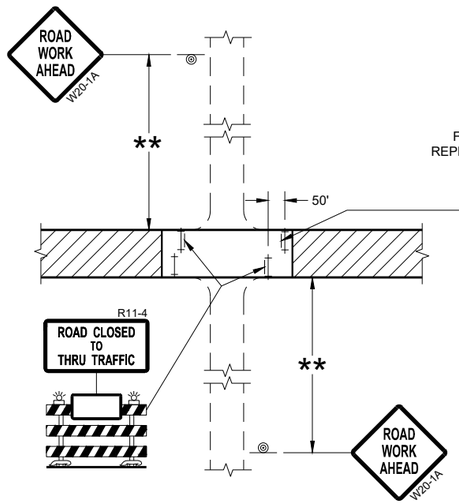
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

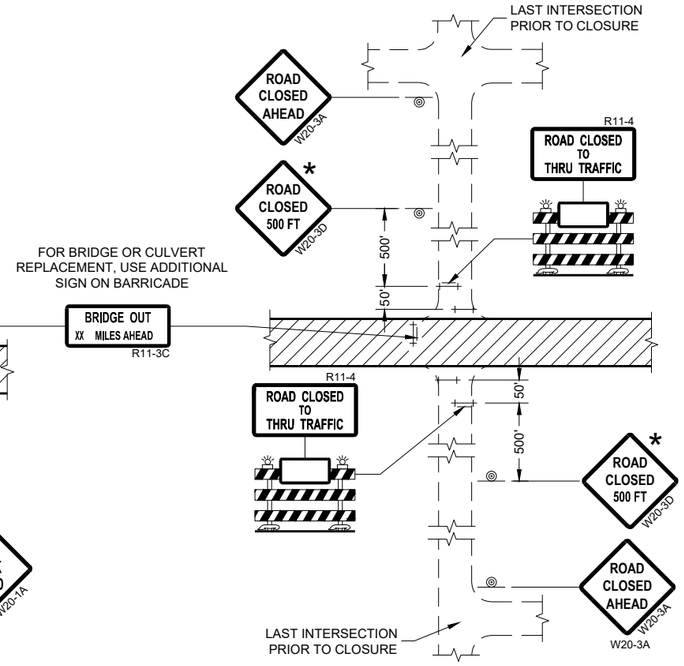
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C03 - 05

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

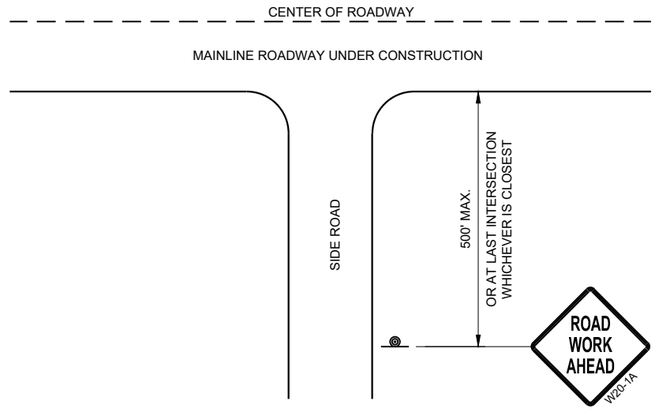
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



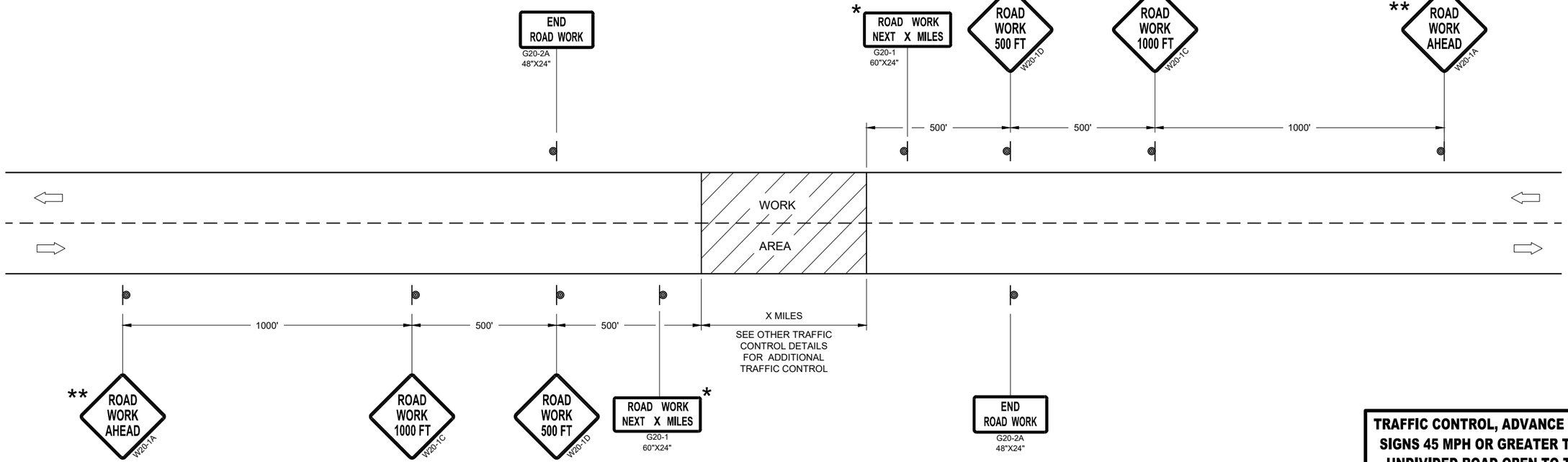
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

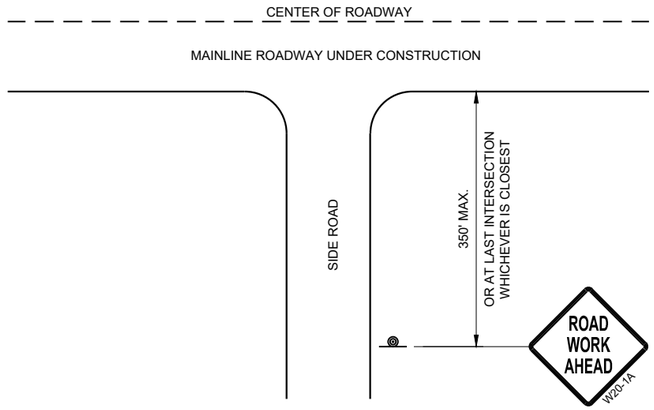
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



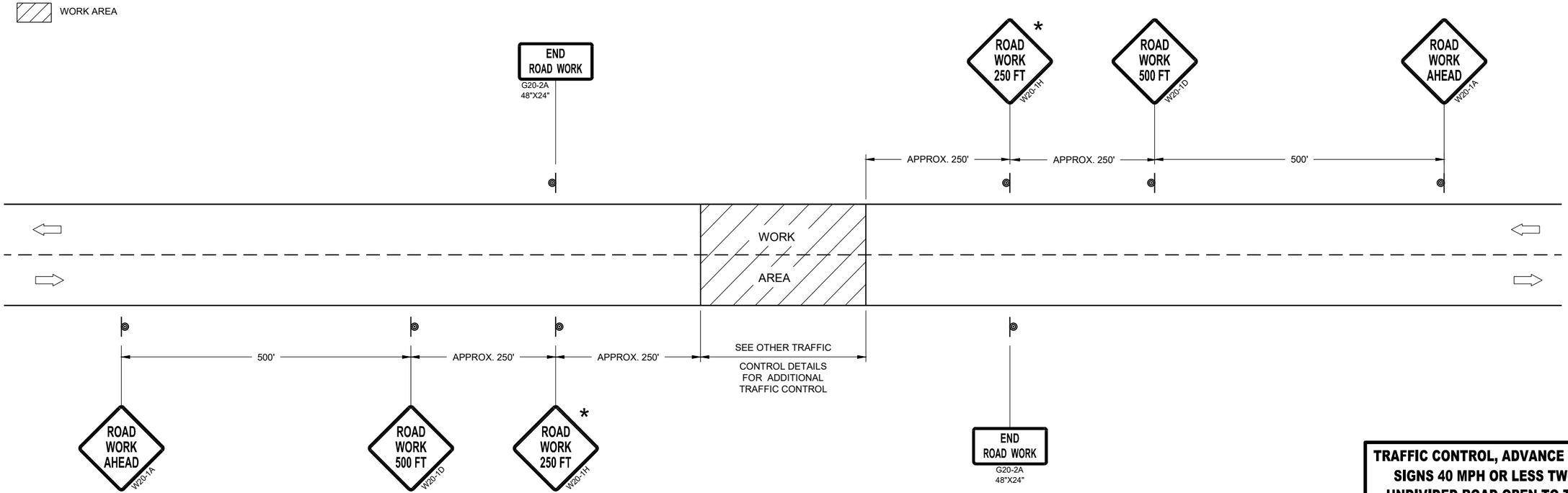
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

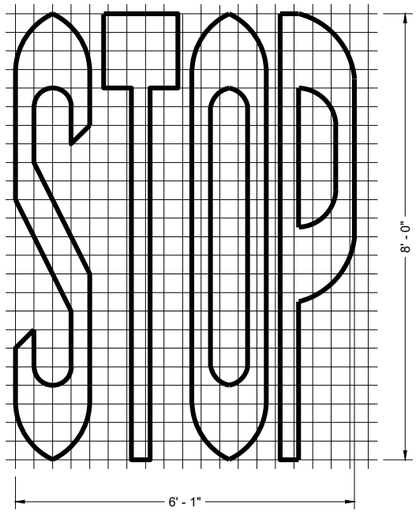
APPROVED
July 2018
DATE

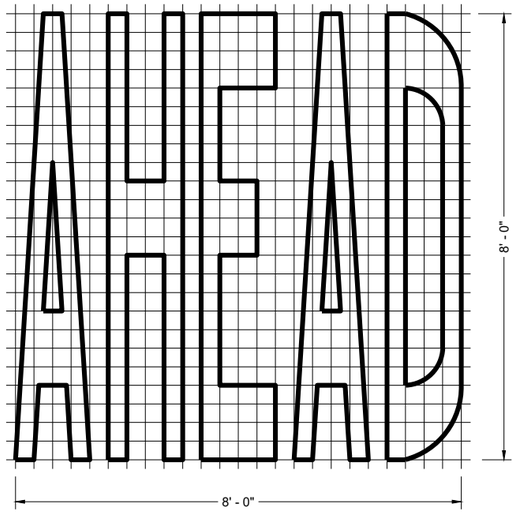
/S/ Andrew Heidtke
WORK ZONE ENGINEE

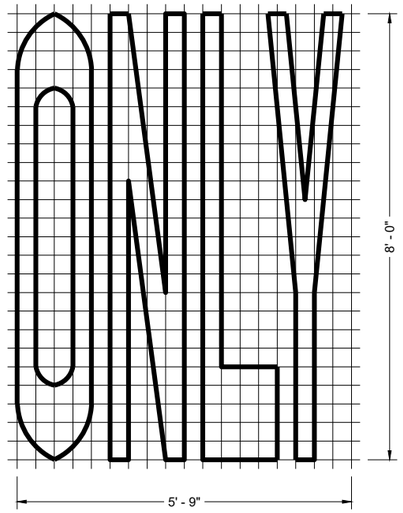
FHWA

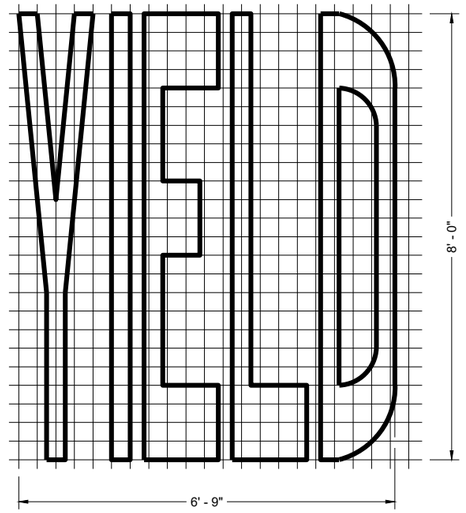
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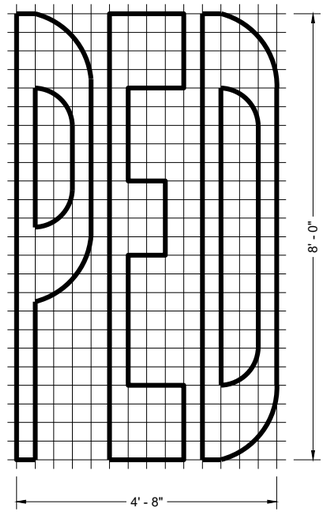
SDD 15C05 - 05

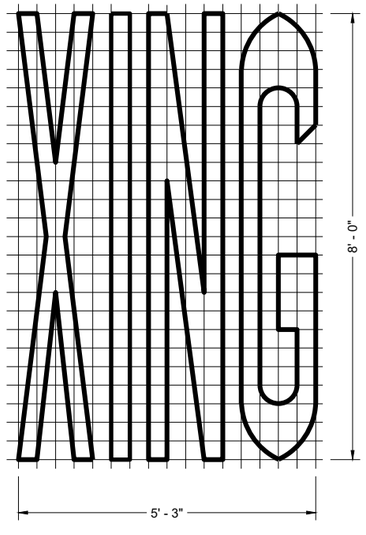


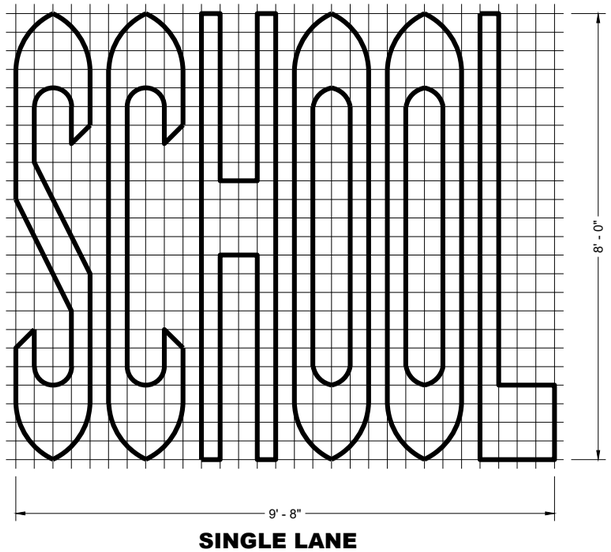




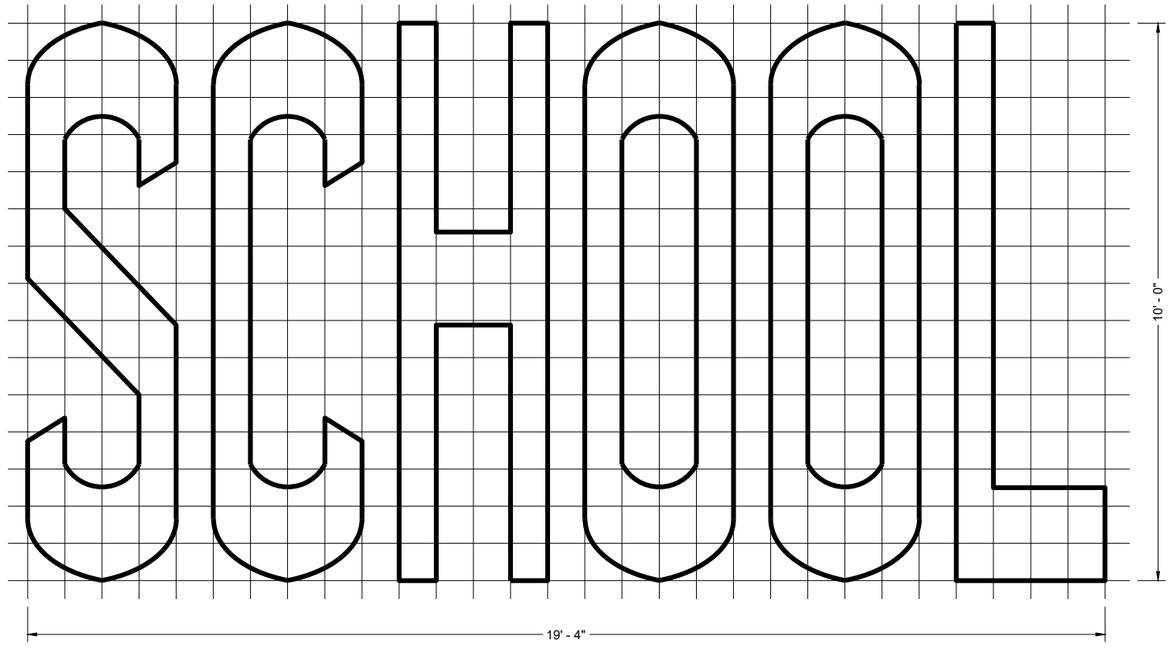








SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

6

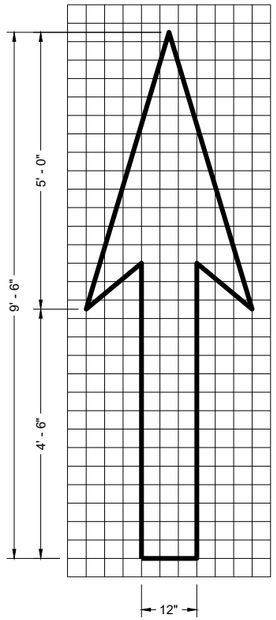
SDD 15C07-16b

6

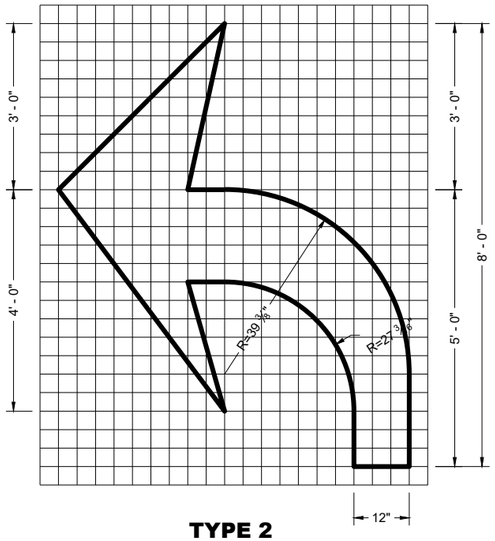
SDD 15C07-16b

GENERAL NOTES

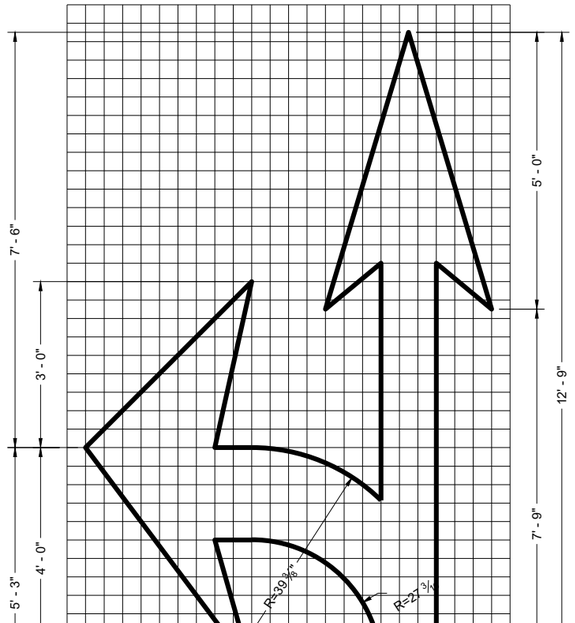
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



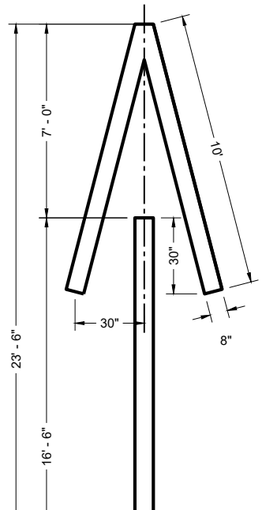
TYPE 1



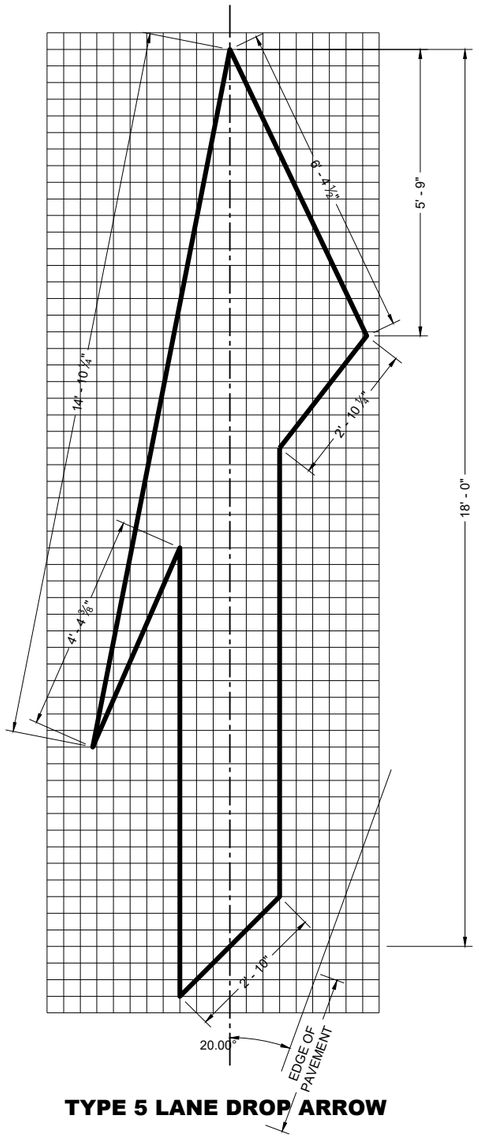
TYPE 2



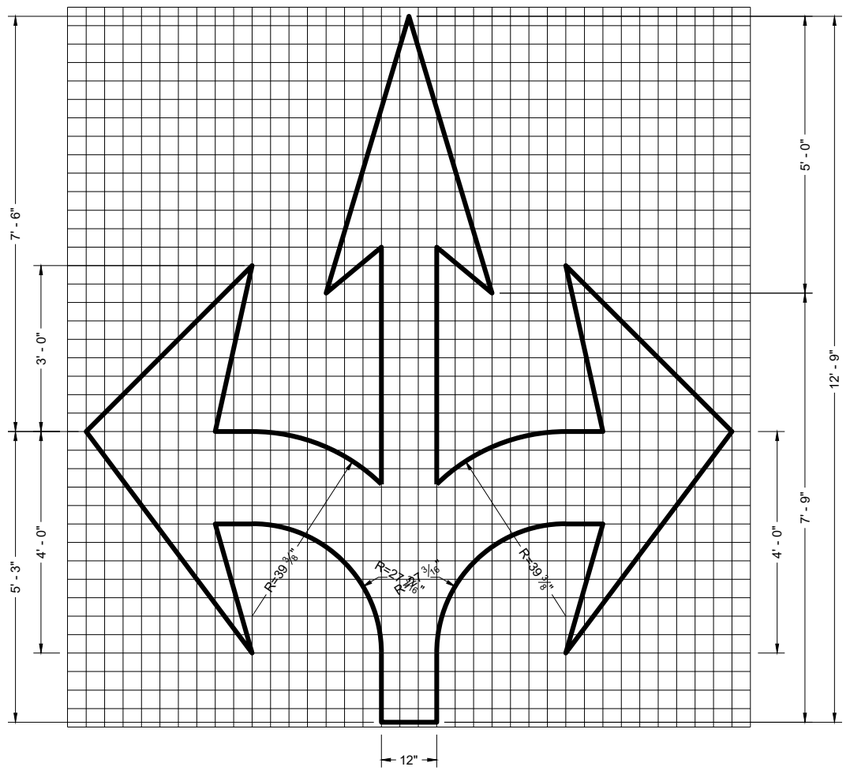
TYPE 3



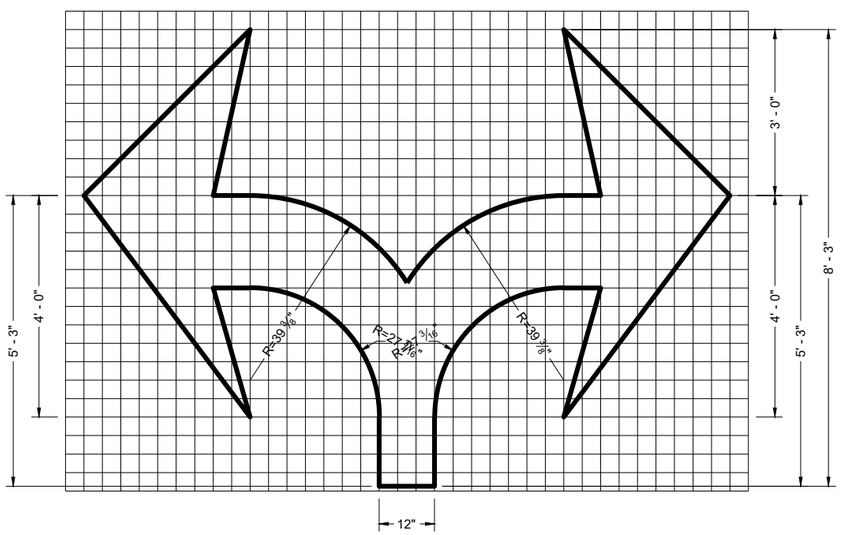
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C07-16c

6

SDD 15C07-16c

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

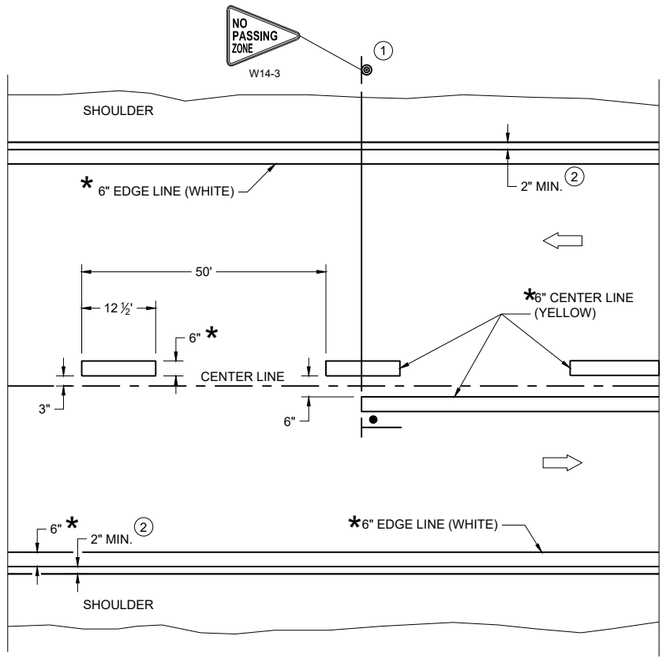
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

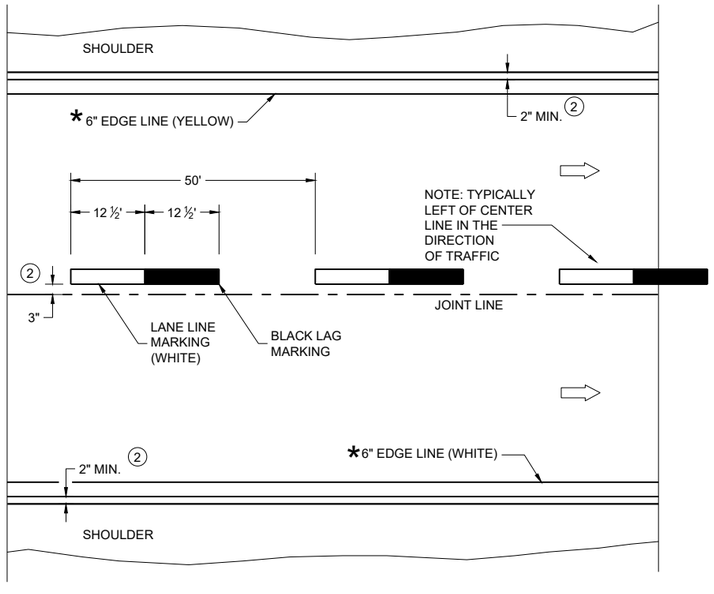
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE

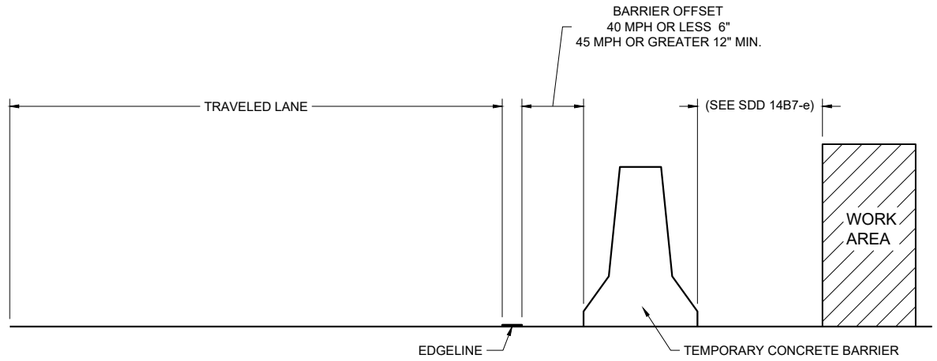
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C08-24a

SDD 15C08-24a



TEMPORARY BARRIER OFFSET FROM EDGELINE

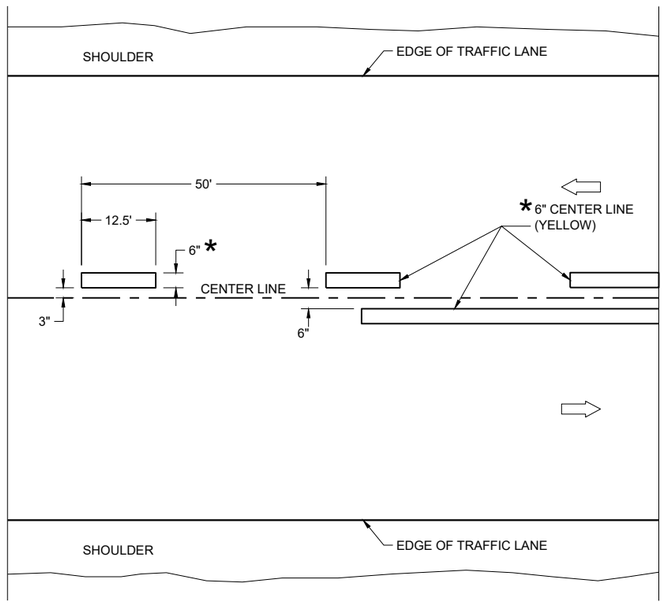
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

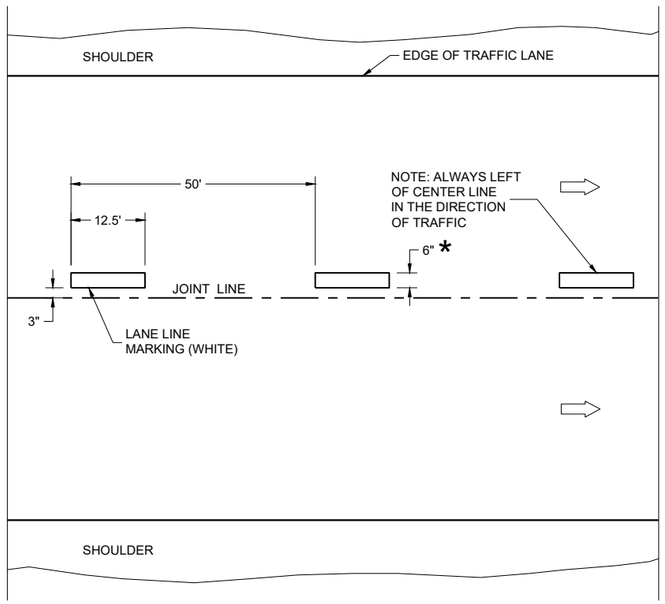
LEGEND

⇨ DIRECTION OF TRAFFIC

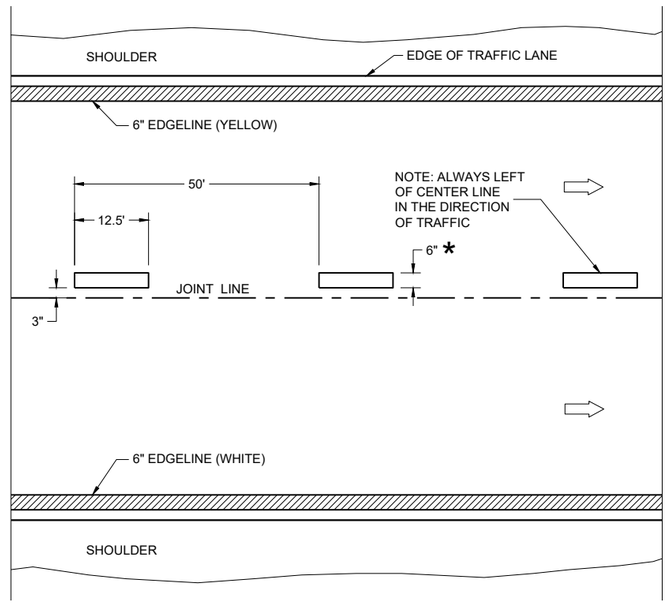
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA

6

SDD 15C08-24b

6

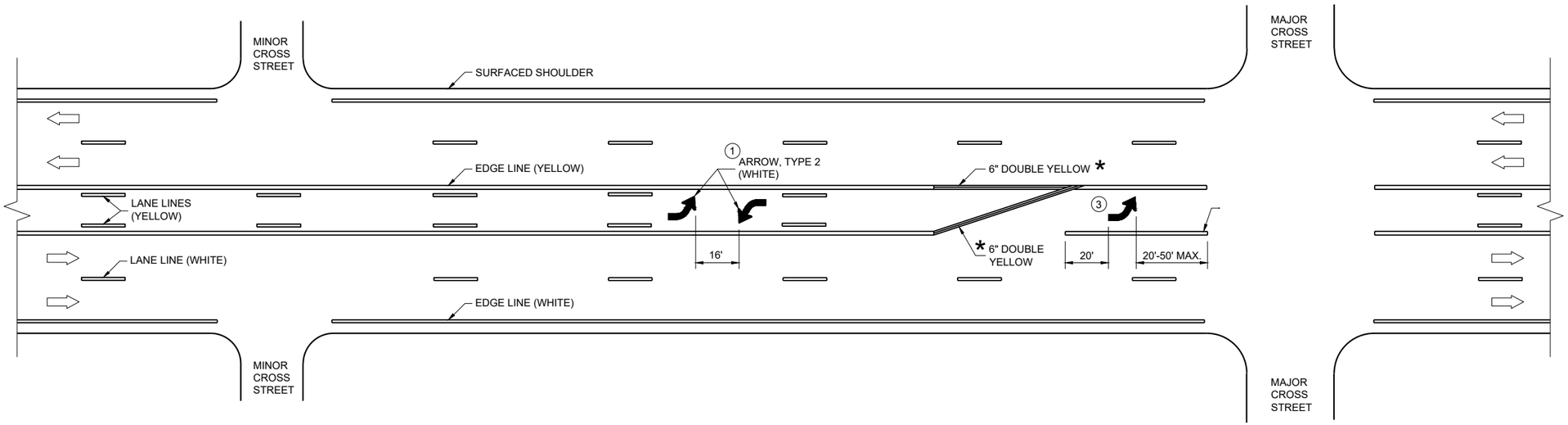
SDD 15C08-24b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY LEFT TURN LANE

6

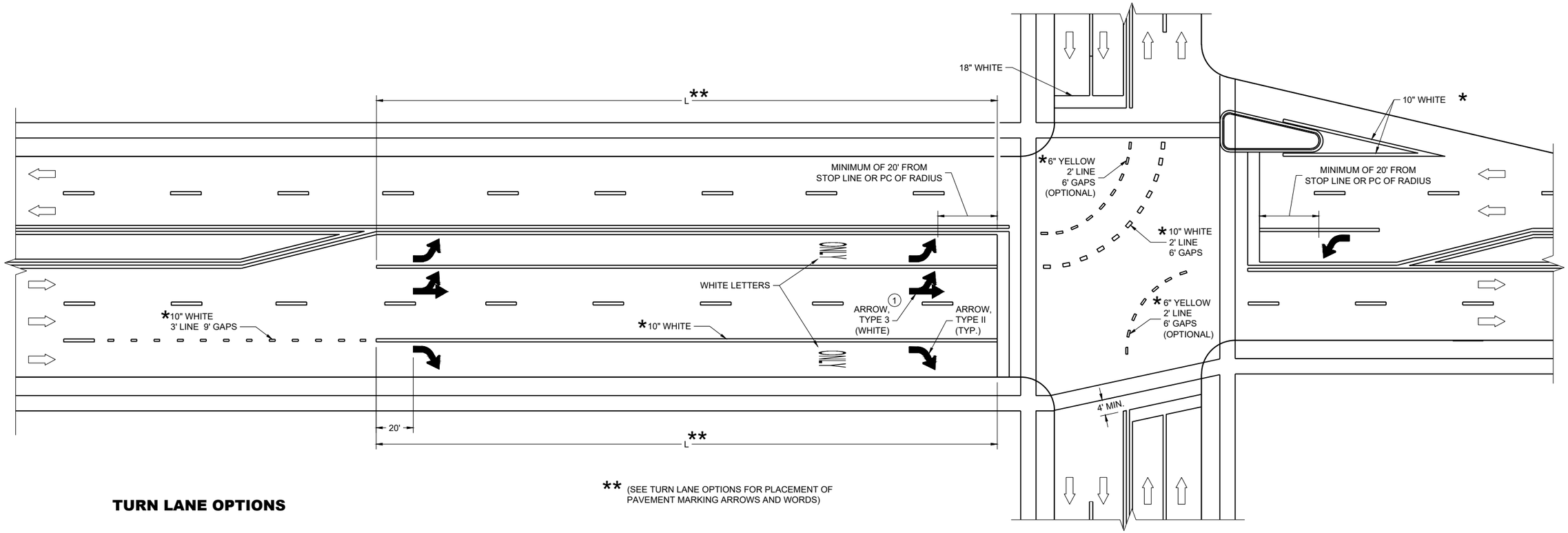
6

SDD 15C08-24c

SDD 15C08-24c

PAVEMENT MARKING (TURN LANES)

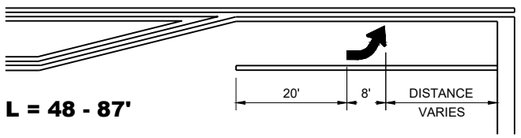
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



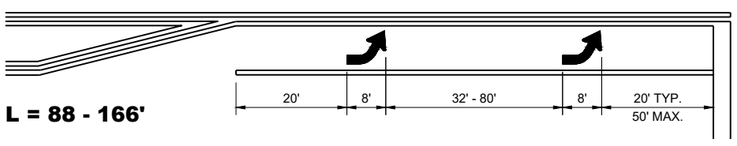
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

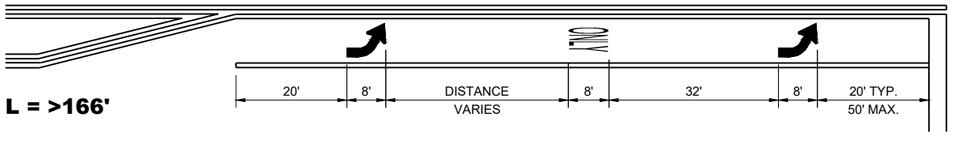
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT
REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

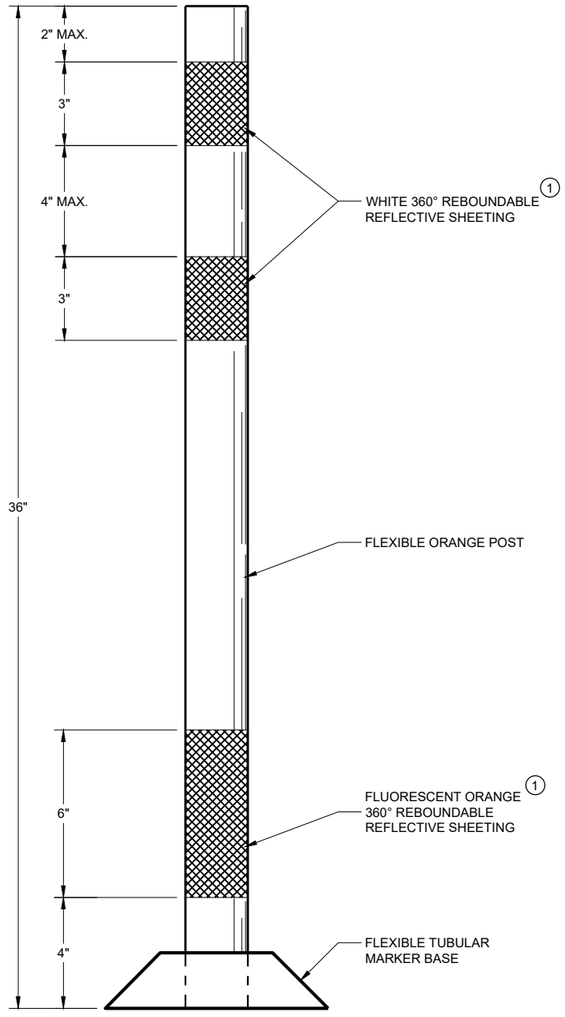
DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

SDD 15C11 - 10a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

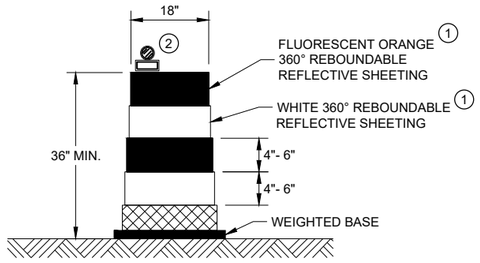
FHWA

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SDD 15C11 - 10a

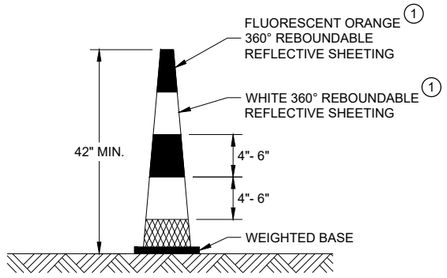
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

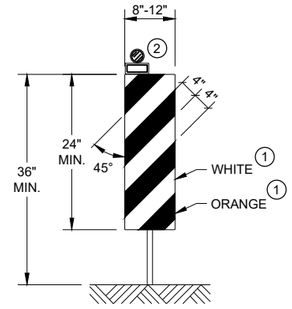
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

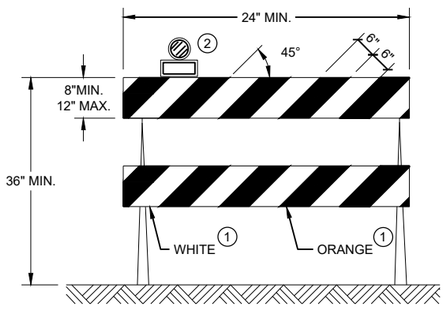
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



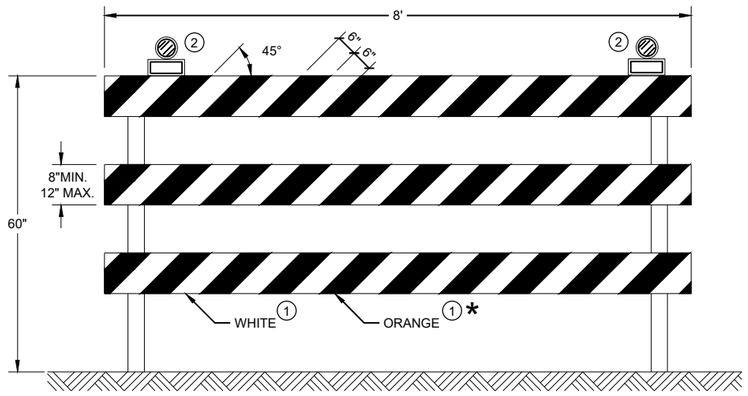
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C11 - 10b

6

SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

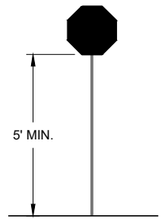
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

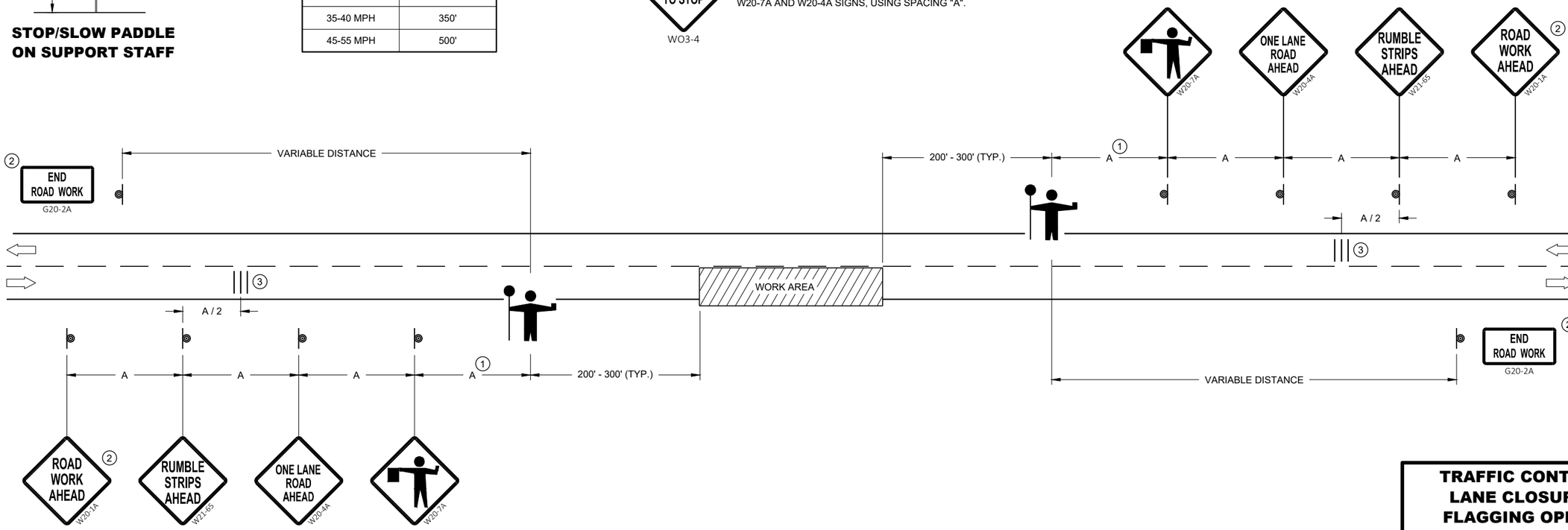
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C12 - 09a

6

SDD 15C12 - 09a

GENERAL NOTES

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL CONE 42-INCH

TRAFFIC CONTROL DRUM

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

AFAD — AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

(1) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(2) IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

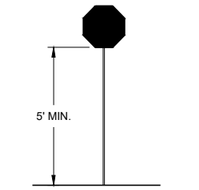
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

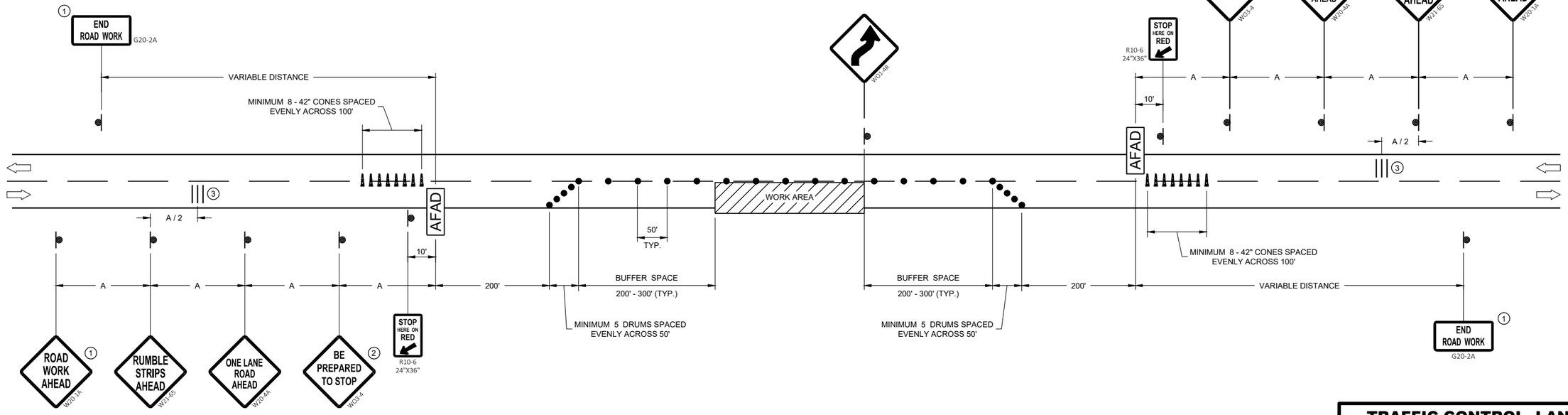
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C12 - 09b

SDD 15C12 - 09b

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

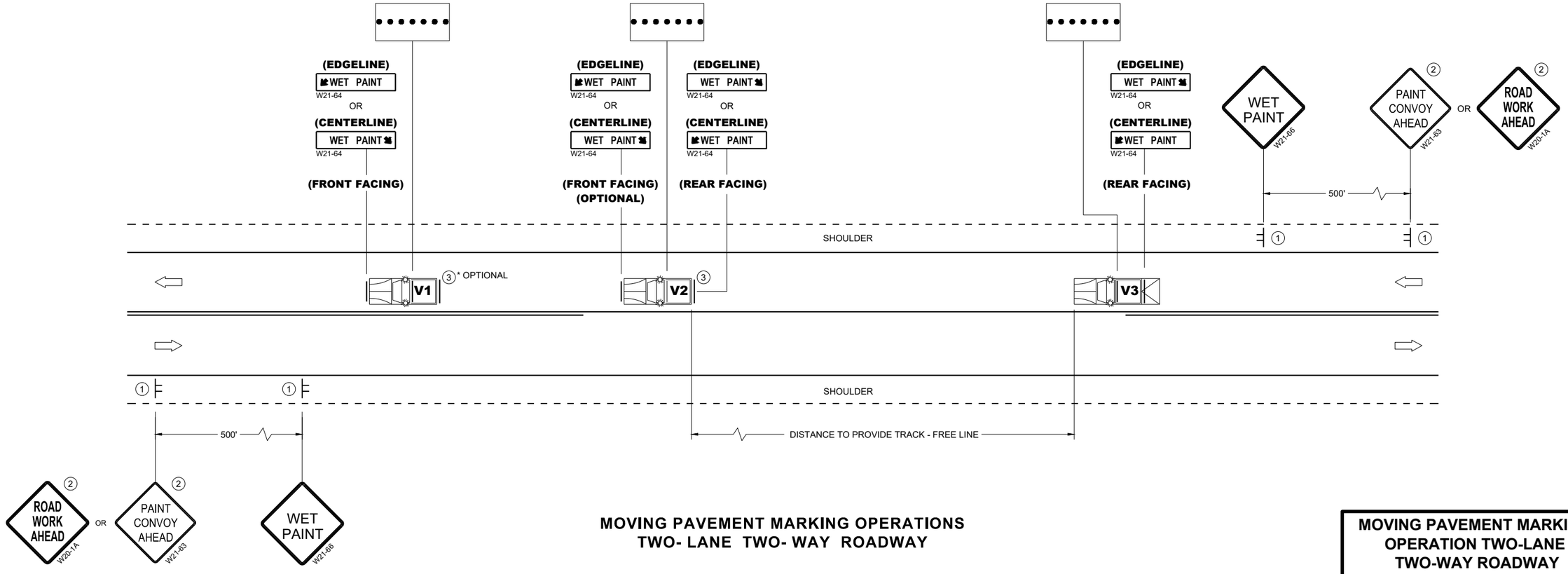
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

(3) V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS
TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEBRUARY 2025 — DATE
/S/ Andrew Heidtke — STATE ELECTRICAL ENGINEER

FHWA

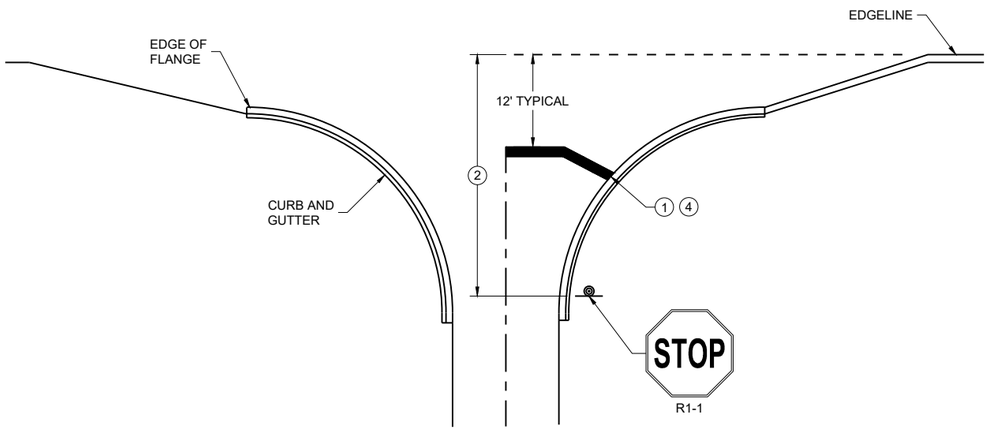
6

SDD 15C19-10a

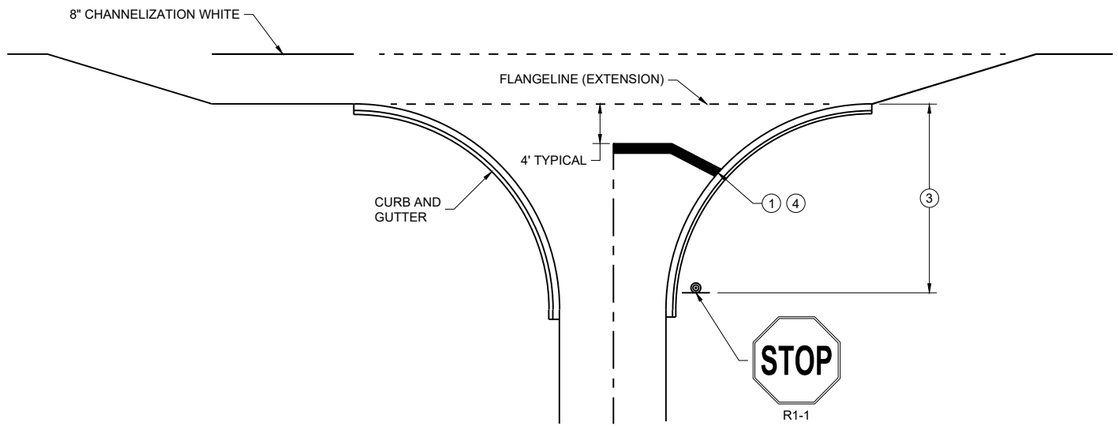
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

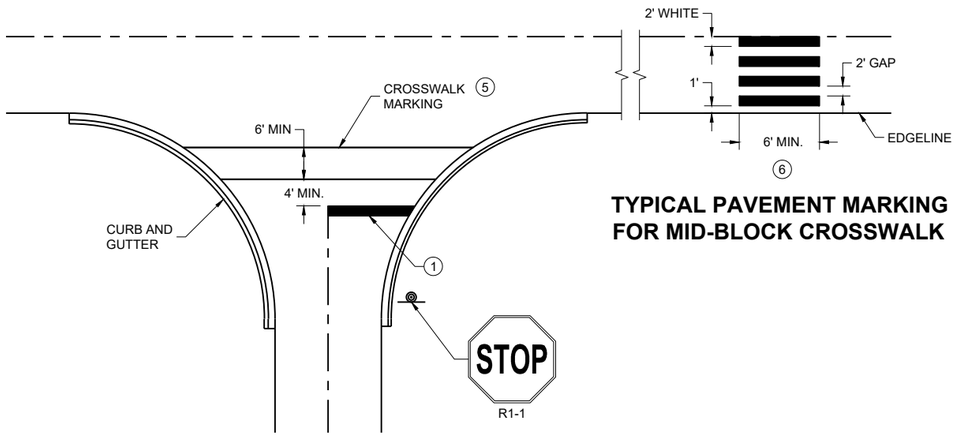
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

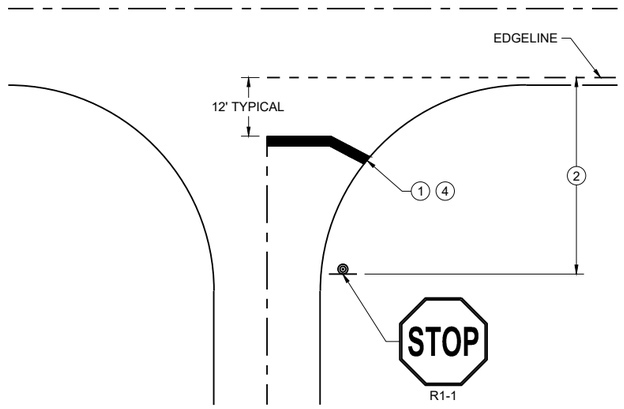


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

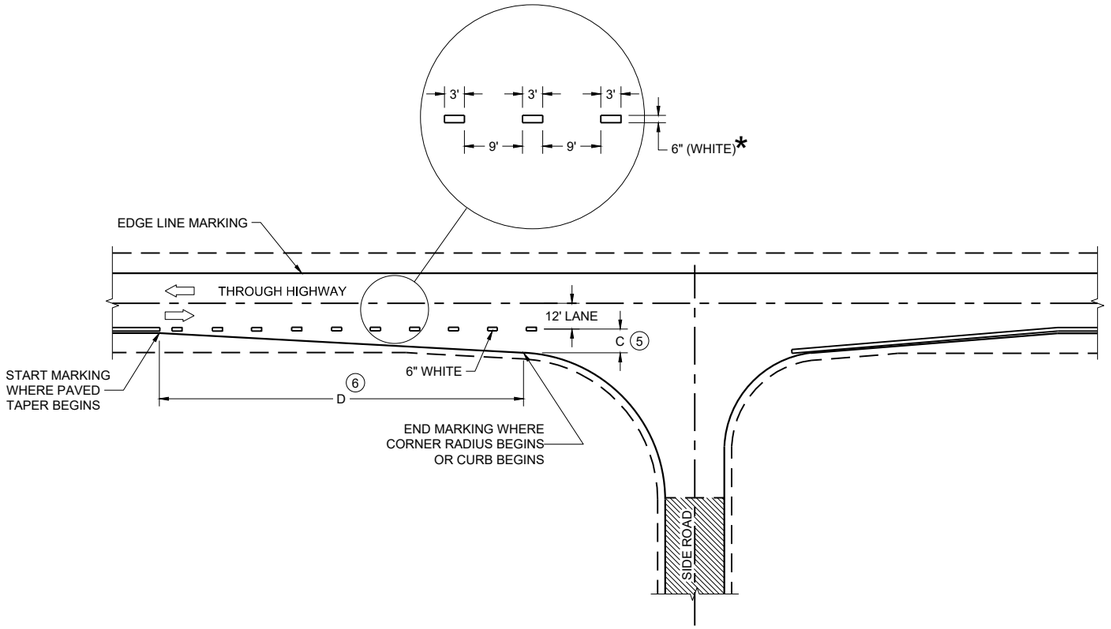
FHWA

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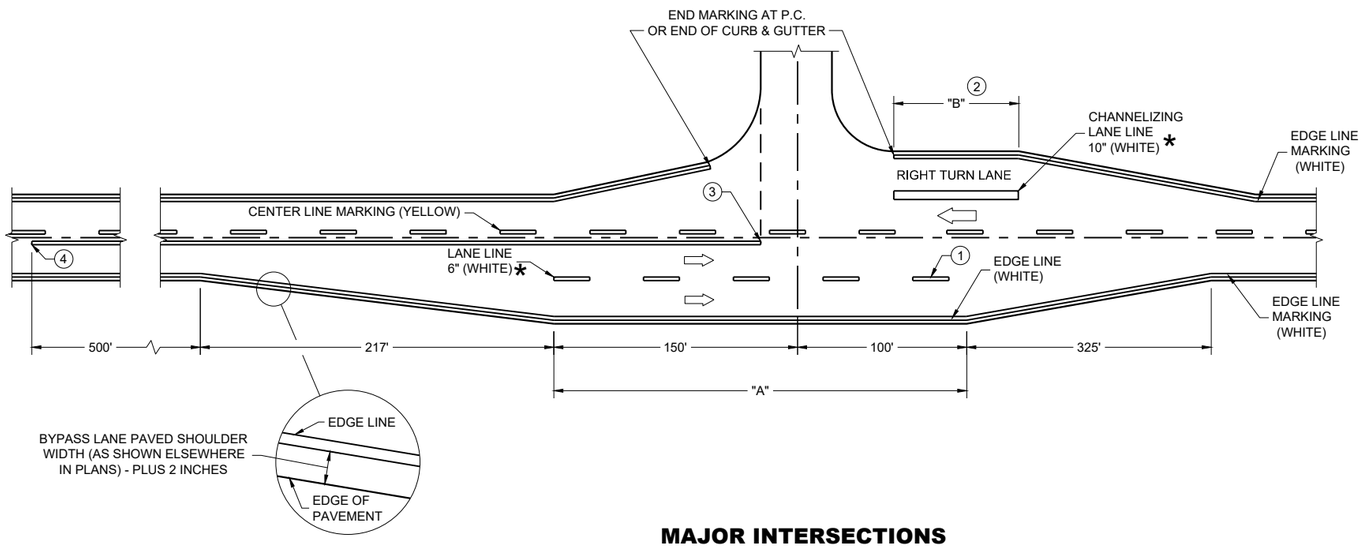
SDD 15C33-05

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SDD 15C33-05



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

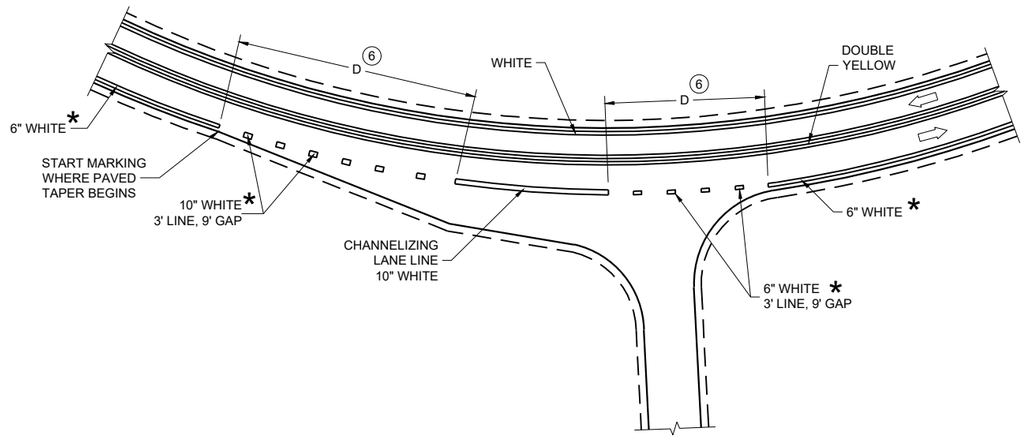
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

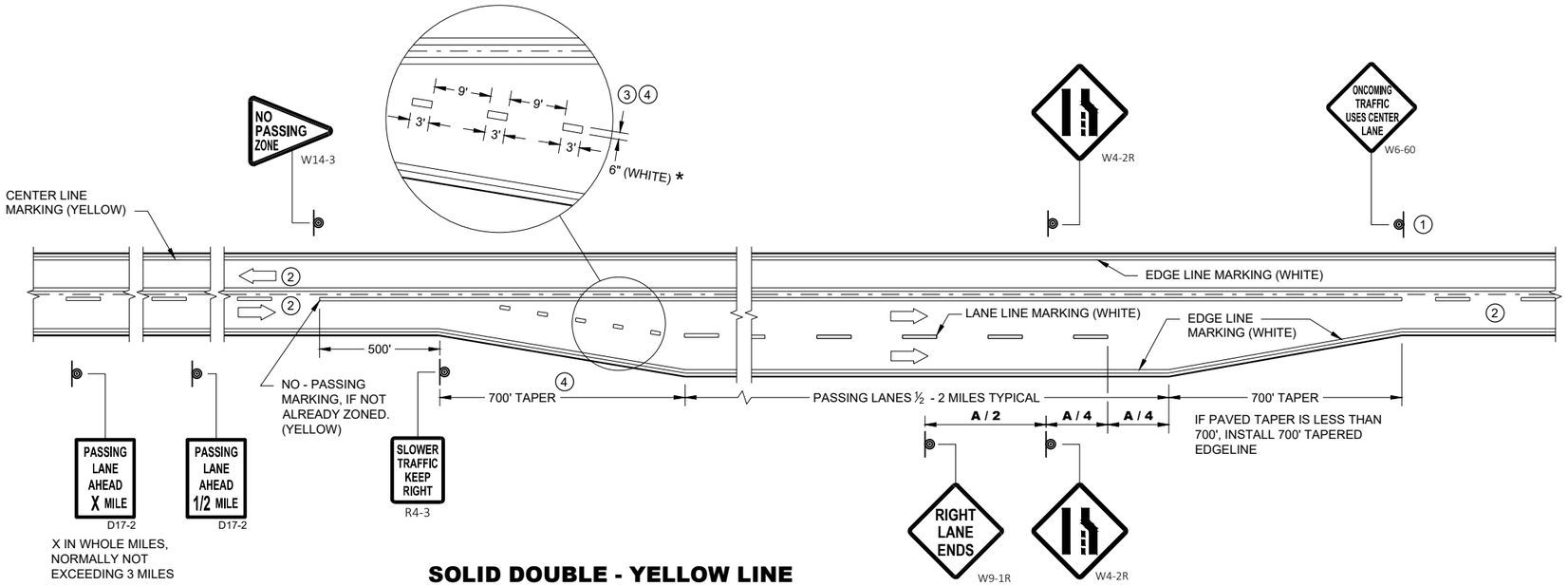
DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



SOLID DOUBLE - YELLOW LINE
(THROUGHOUT ENTIRE PASSING / CLIMBING LANE)

GENERAL NOTES

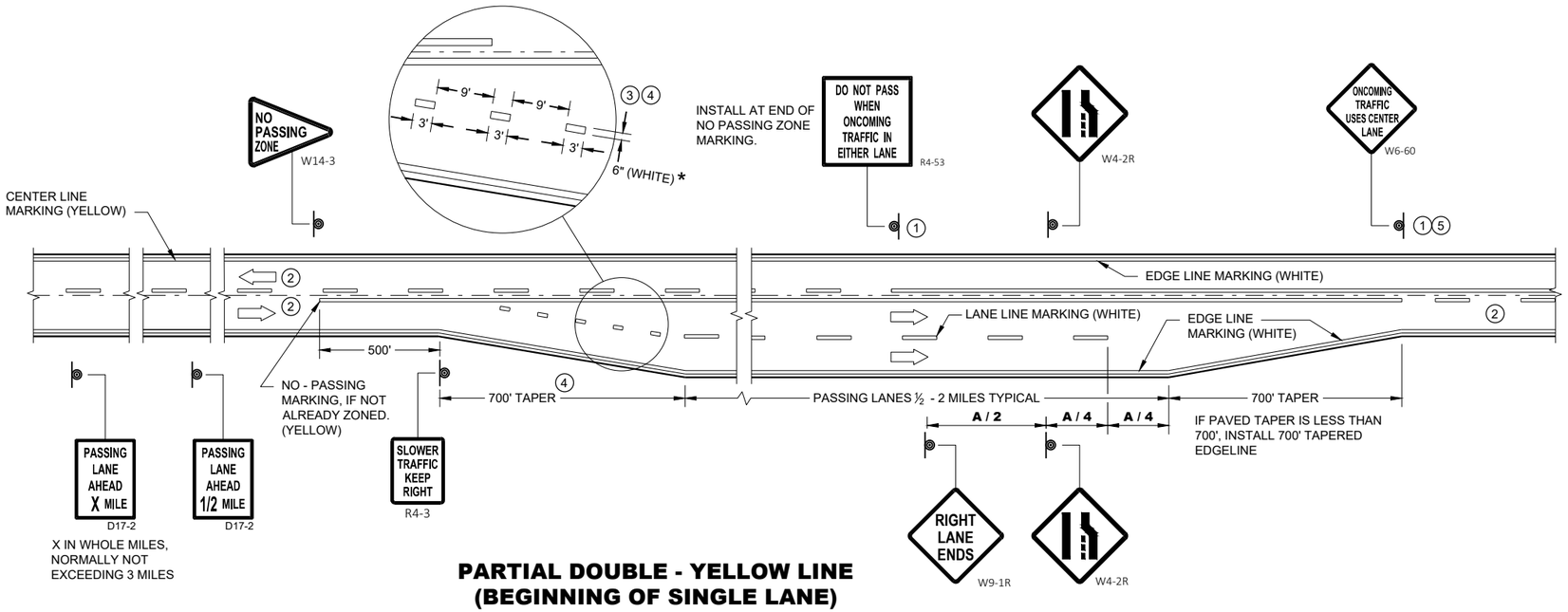
1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
5. REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

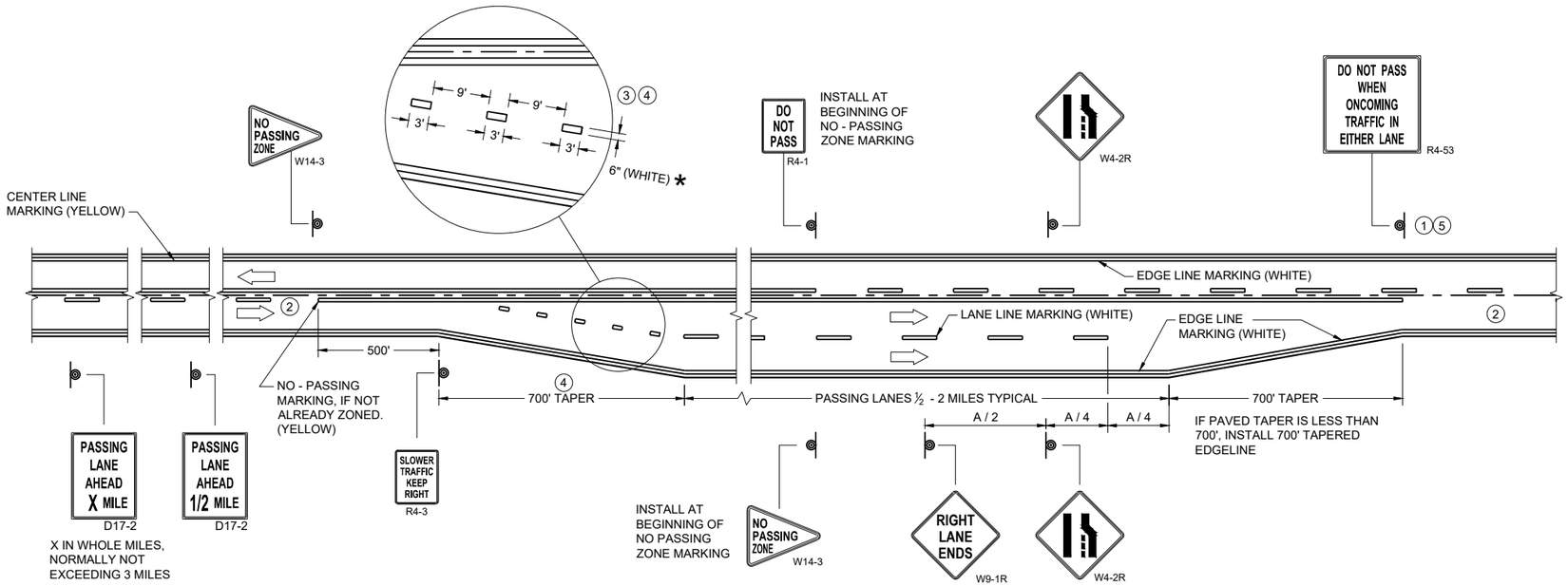
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PARTIAL DOUBLE - YELLOW LINE
(BEGINNING OF SINGLE LANE)

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

6
SDD 15C35-06b



SOLID DOUBLE - YELLOW LINE
(END OF SINGLE LANE)

GENERAL NOTES

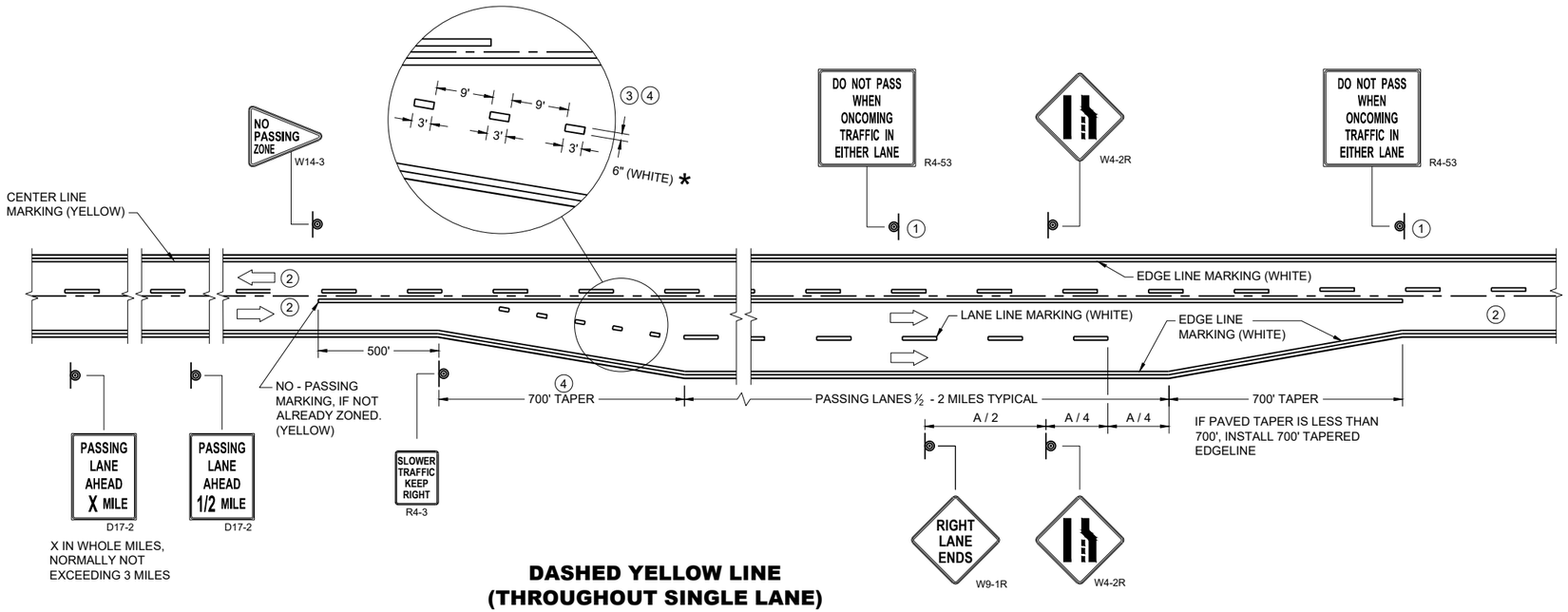
1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
5. REPEAT EVERY ONE MILE UP UNTIL NO PASSING ZONE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



DASHED YELLOW LINE
(THROUGHOUT SINGLE LANE)

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer

FHWA

6
SDD 15C35-06c

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

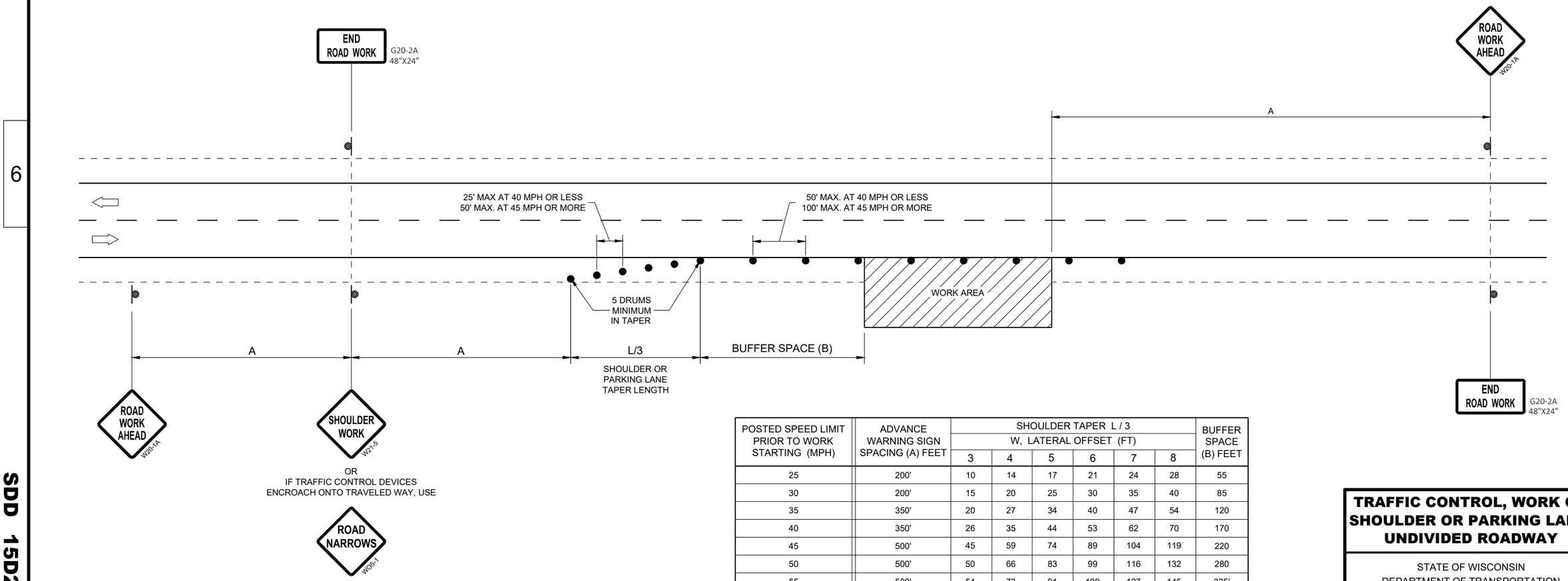
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

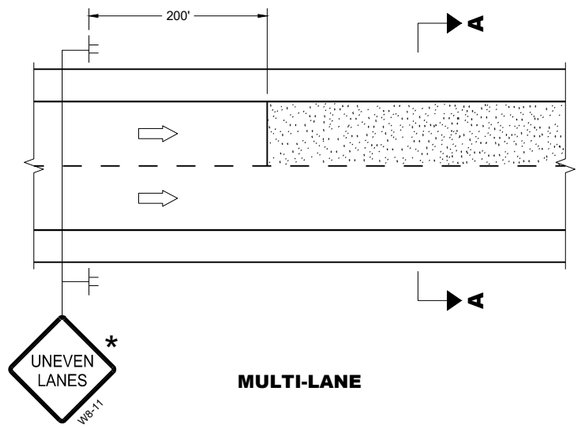
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

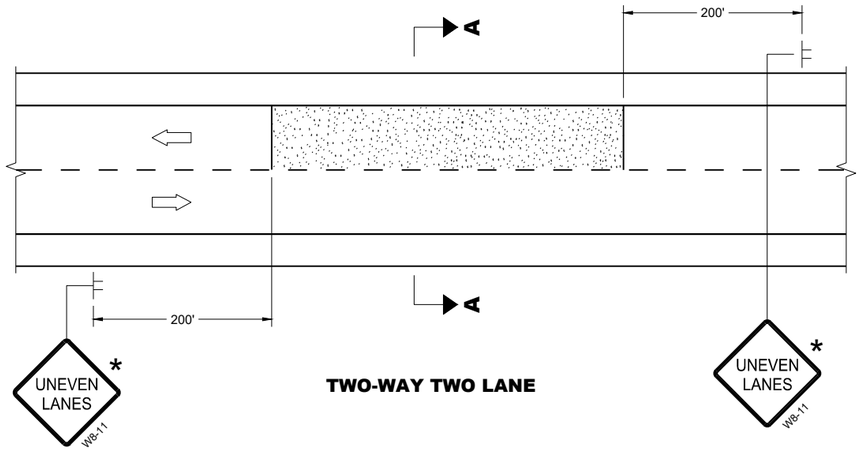
FHWA

SDD 15D28 - 04

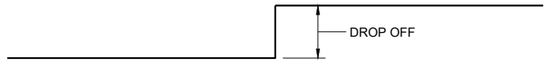
SDD 15D28 - 04



MULTI-LANE

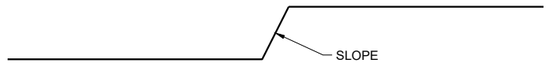


TWO-WAY TWO LANE

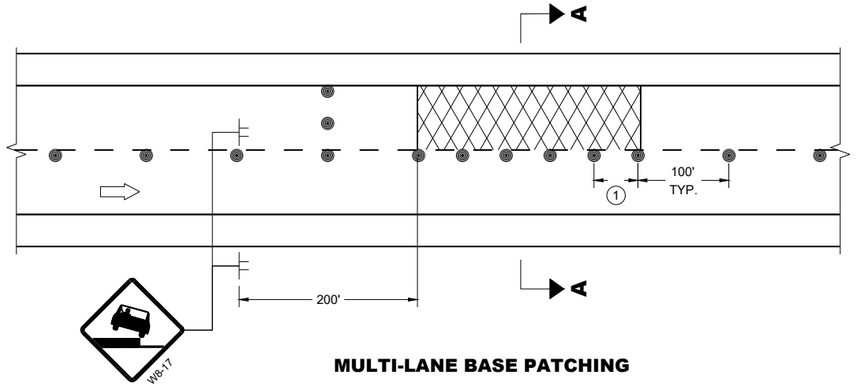


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

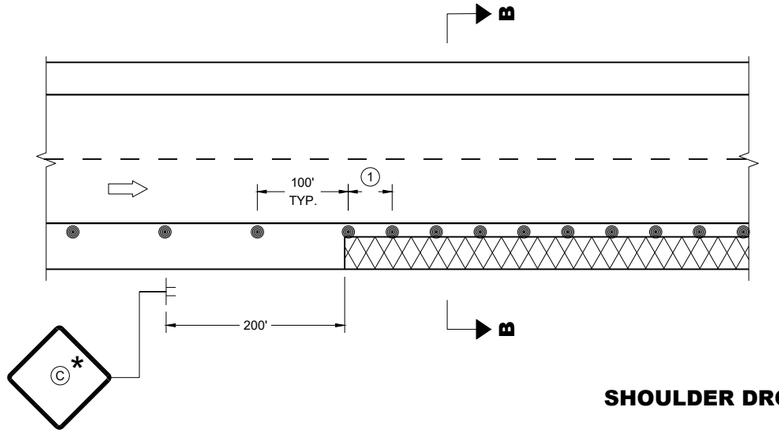
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

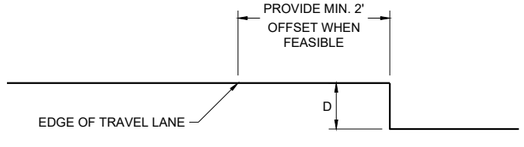
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A
	PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15D39-03

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

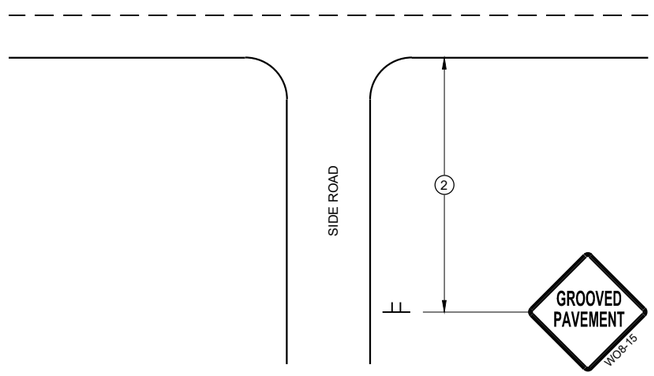
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

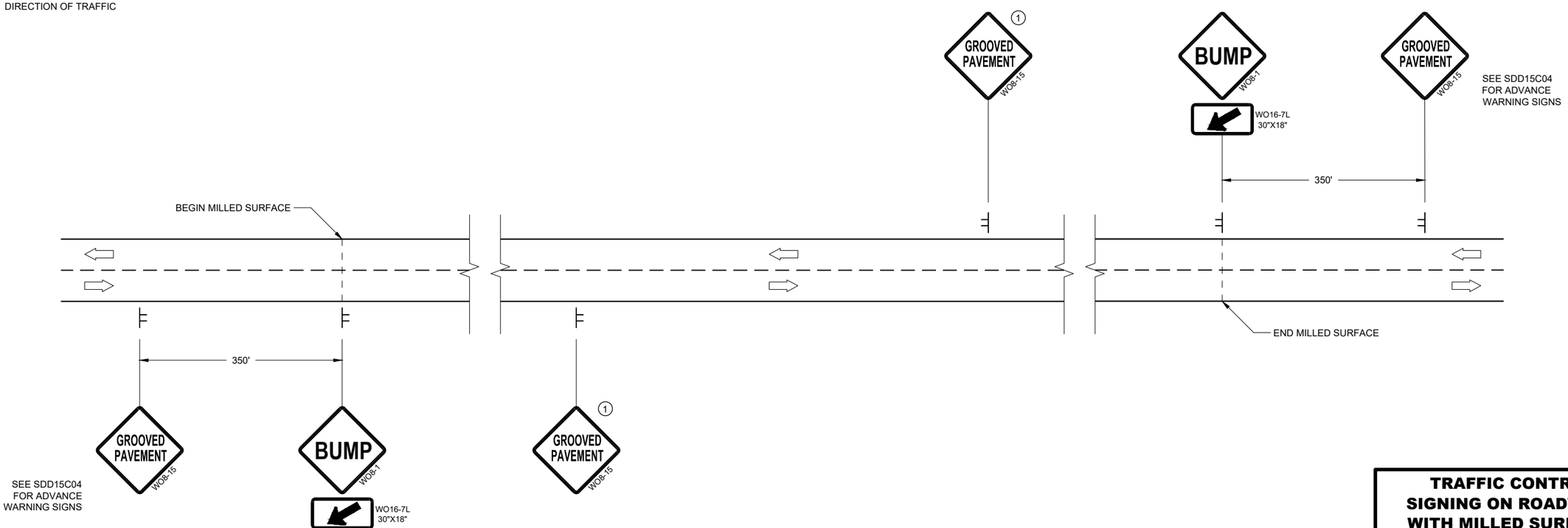
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D44 - 02

SDD 15D44 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

(1) PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

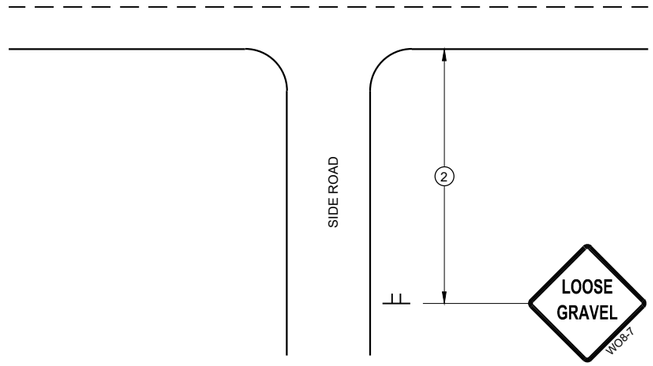
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

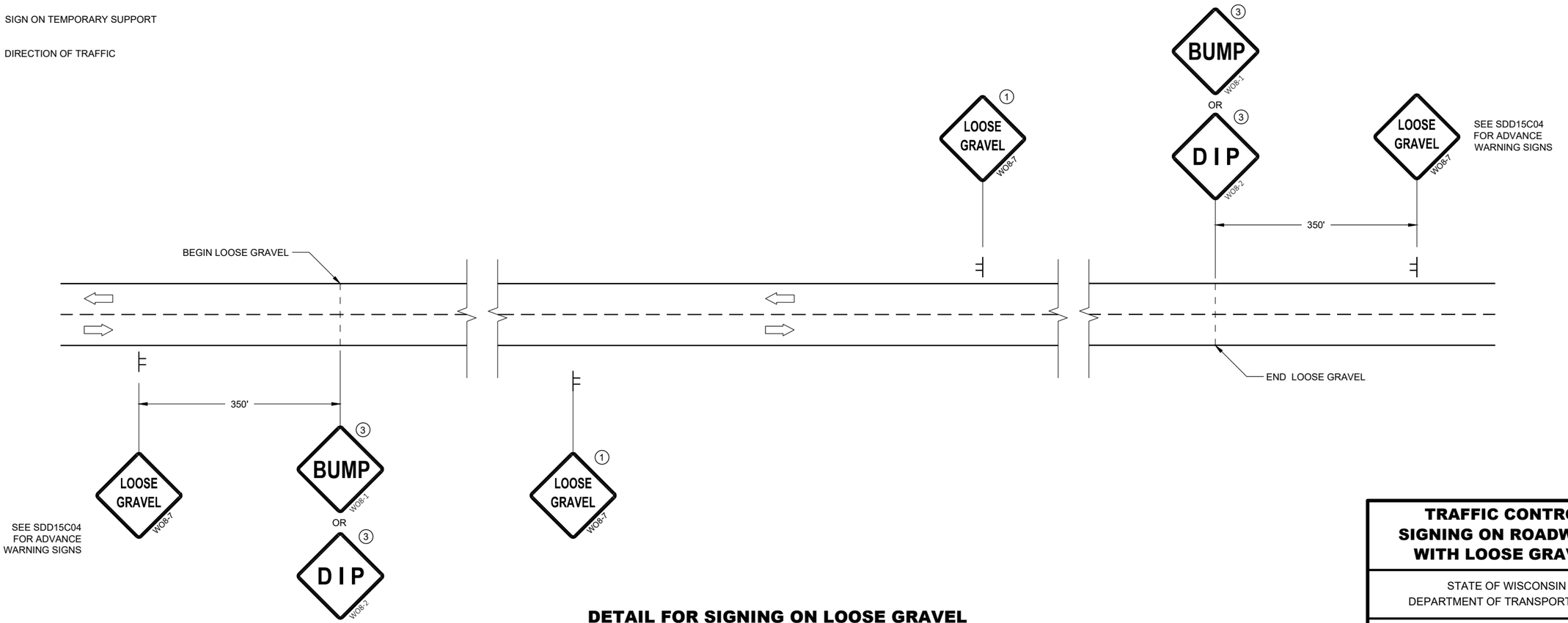
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D45 - 03

6

SDD 15D45 - 03

LEGEND

V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

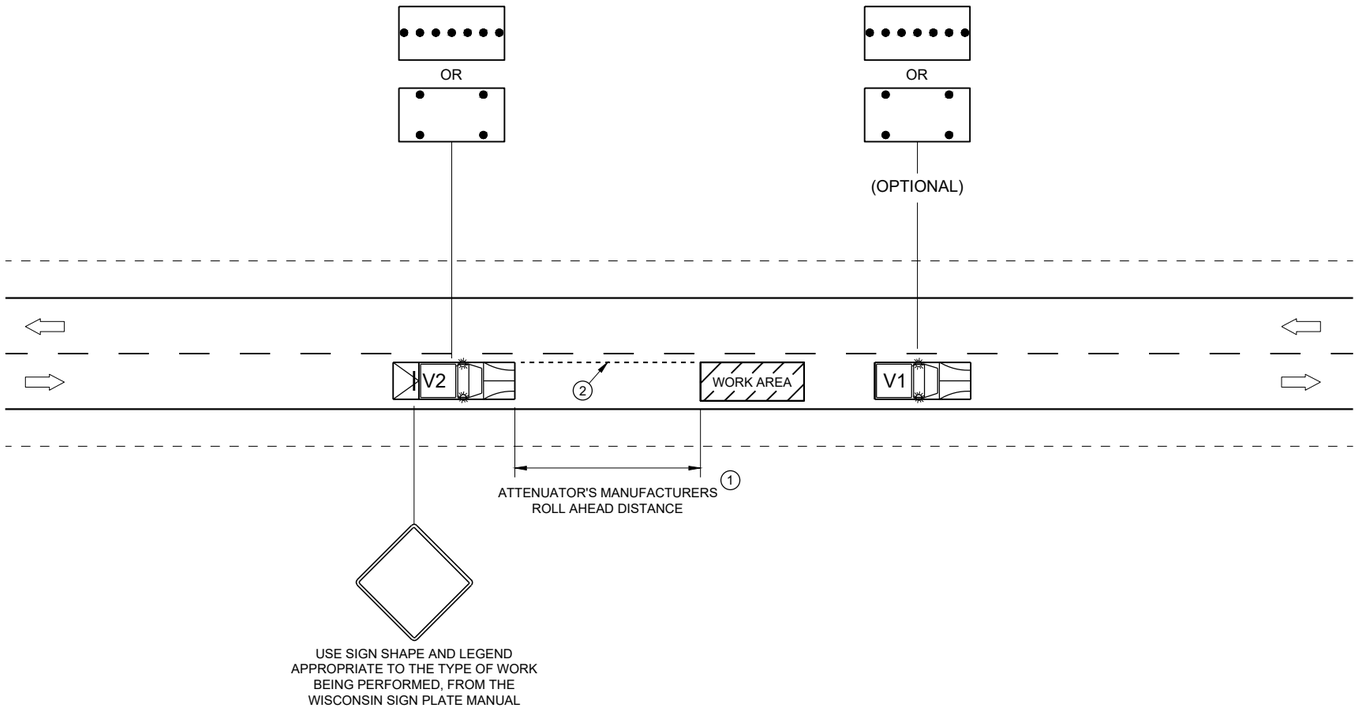
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

(1) DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

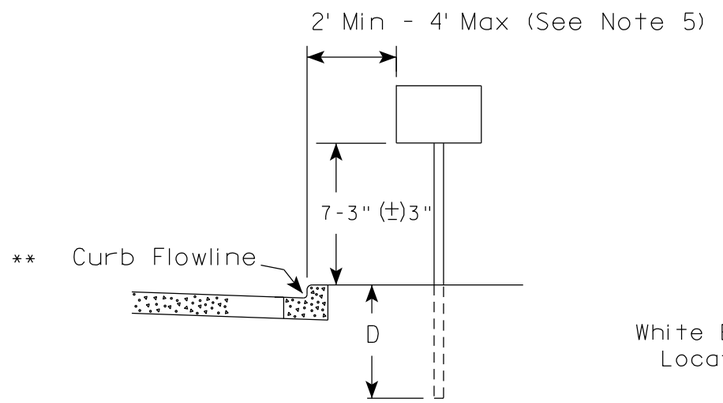
APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

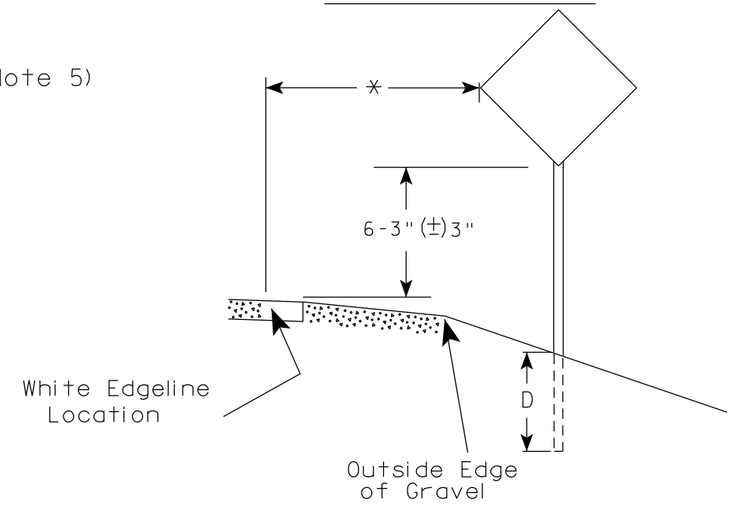
6

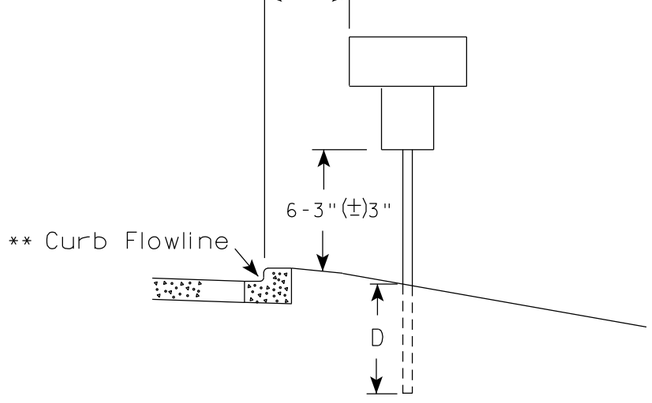
SDD 15D51 - 01

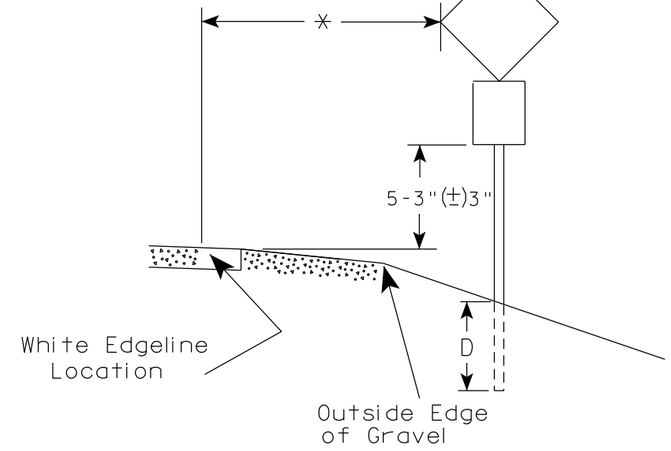
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

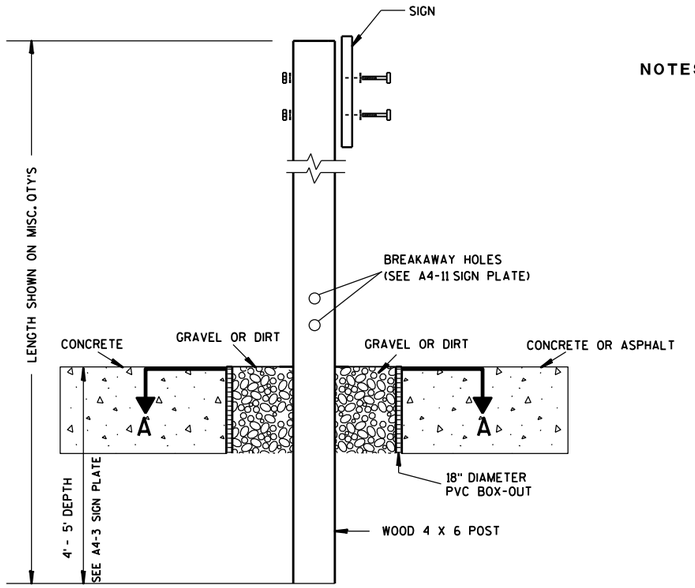
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

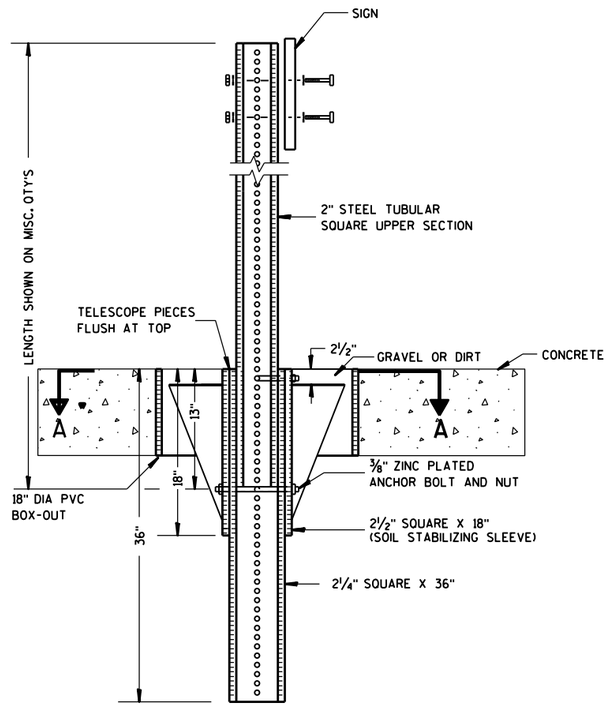
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 172	E



ELEVATION VIEW

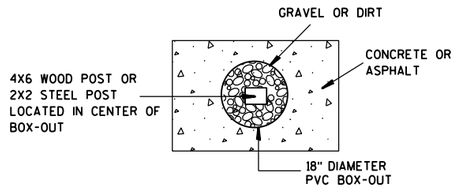
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

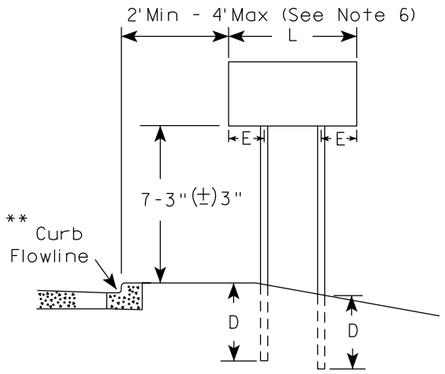
APPROVED Matthew R Rauch
for State Traffic Engineer

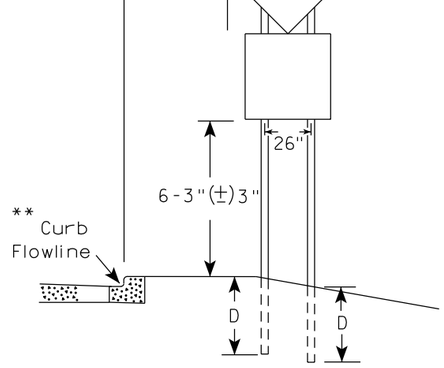
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

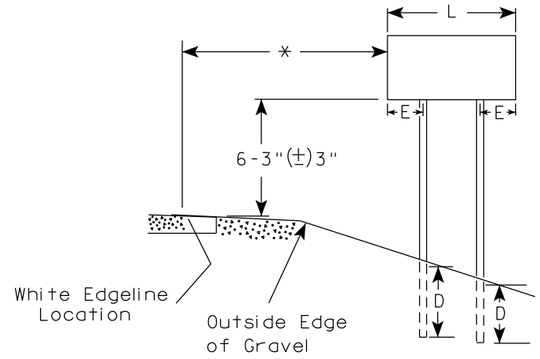
URBAN AREA

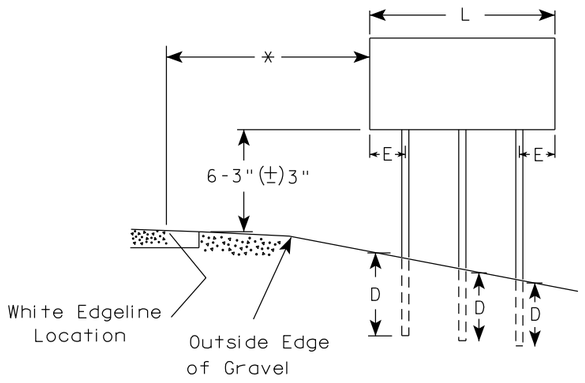


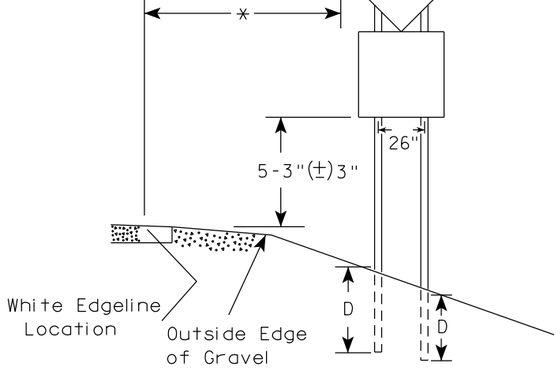


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

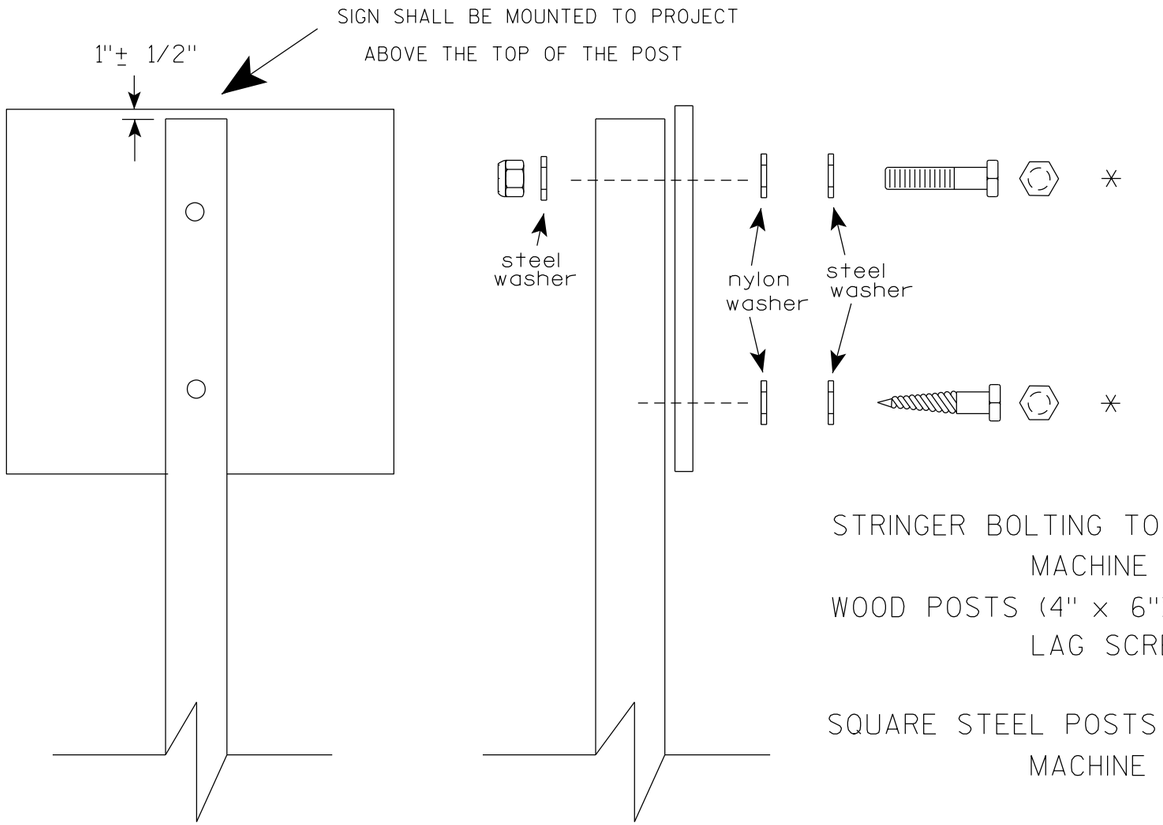
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 174	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

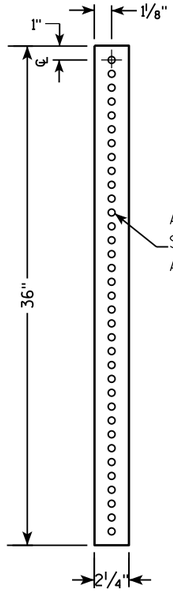
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

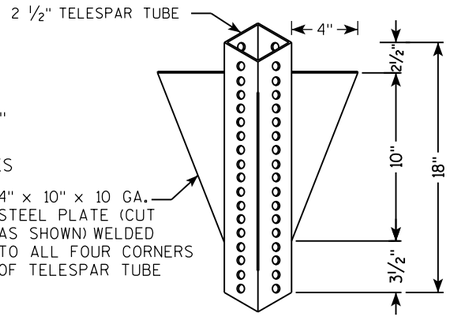
SHEET NO: 175 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

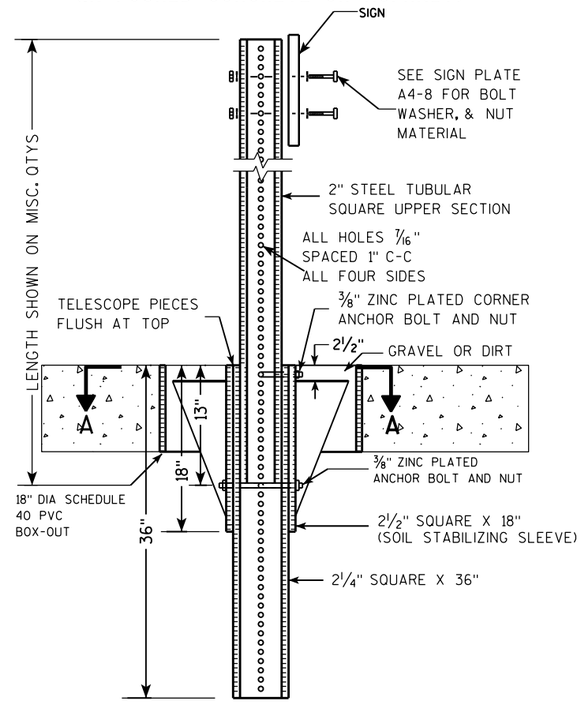
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



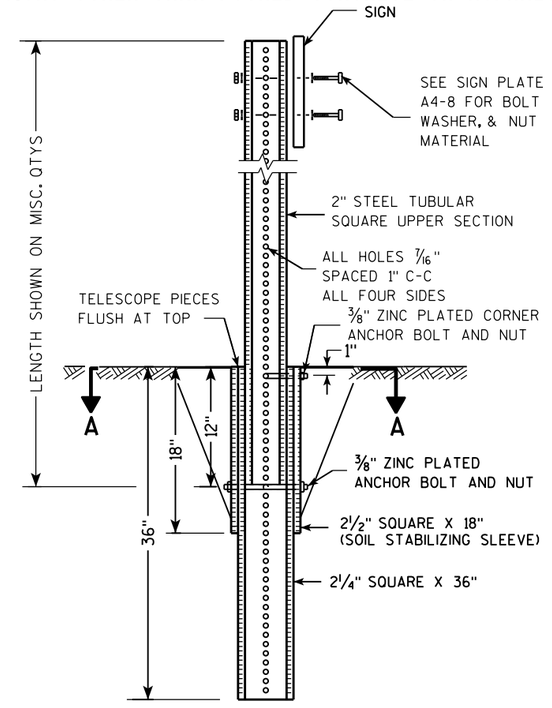
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

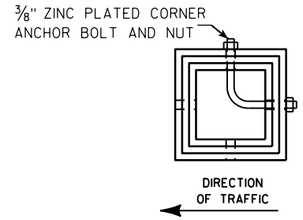


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

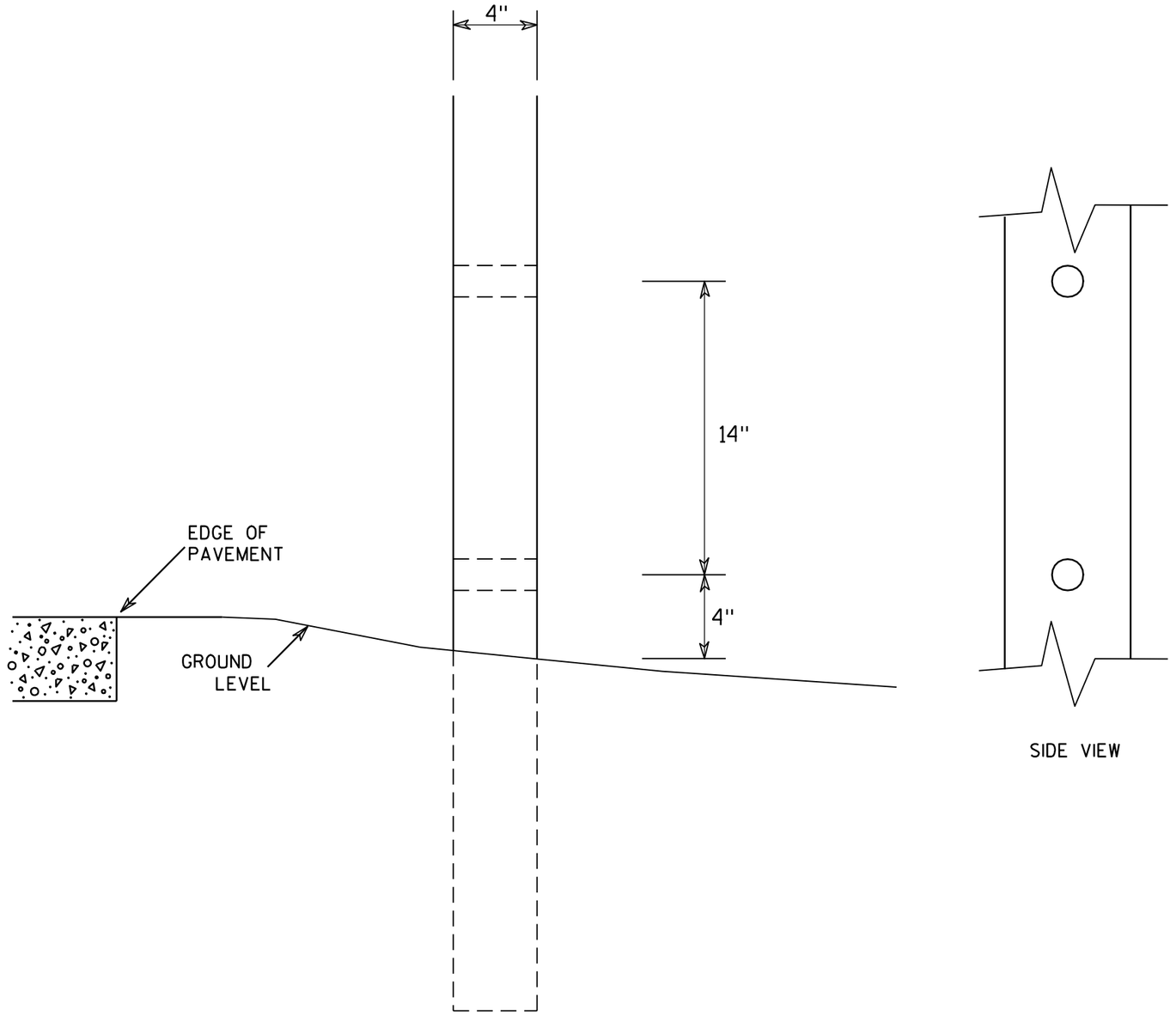
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

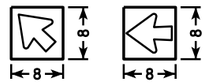
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

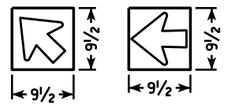
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 177	E

SIGN LAYOUT WITH VARIOUS SIZED MESSAGES

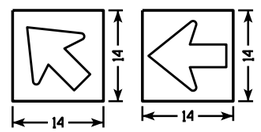




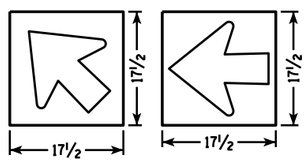










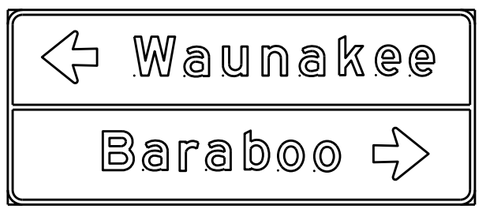


GENERAL NOTES

1. Materials shall conform to Standard Specification Section 637.
   Base - Sheet Aluminum 0.040" Thickness
   Sheeting - Orange Type F Reflective
   Arrow - Black Non-Reflective
2. Arrow signs shall be fastened to permanent sign by either aluminum rivets or aluminum self-tapping sheet metal screws. There shall be a minmum of 2 fasteners used per arrow sign.
3. There shall be a spacer consisting of a 0.08" nylon washer between the back of the arrow sign and the face of the permanent sign.
4. Arrows are per standard plate A1-2
5. Use separate arrow sign for each destination
6. Tilt arrow is always at 45 degrees
7. Arrow is centered on arrow sign

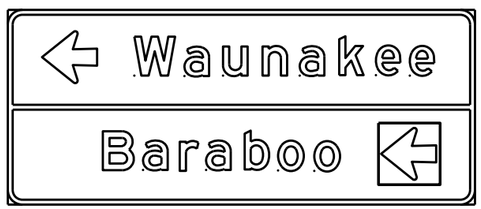
Lower Case Copy Size	Standard Width (Single Arrow)	2 Line Tilt Arrow Cover Width	3 Line Tilt Arrow Cover Width	Height
3¾" Series C	8	9 ½	14 ½	8
4½" Series D & E	9 ½	10	15	9 ½
6" Series D & E	14	16	20 ½	14
8" Series E	17 ½	20 ½	25	17 ½

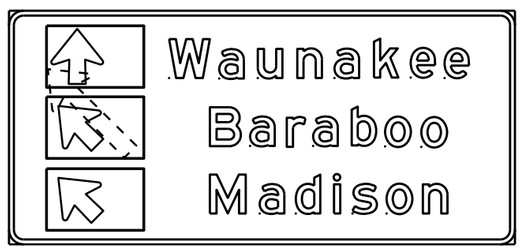
BEFORE





AFTER





DESTINATION DIRECTIONAL ARROW FOR DETOUR SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/08/14

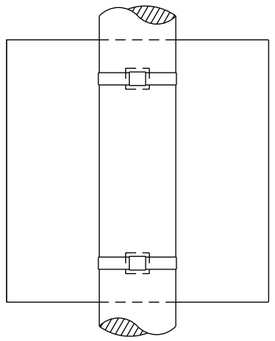
A4-12.2

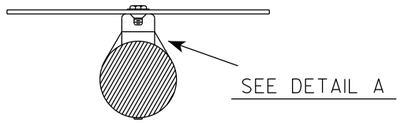
PROJECT NO:

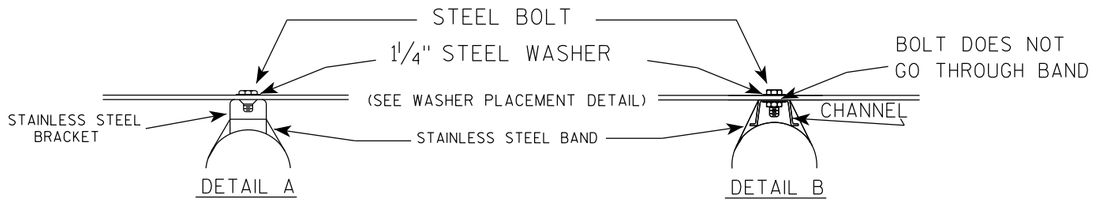
SHEET NO: E

BANDING

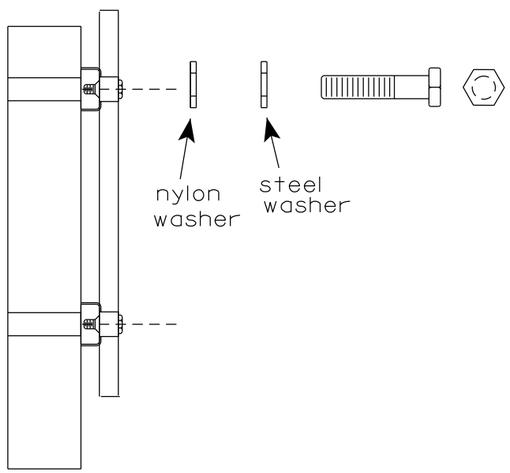
SINGLE SIGN







WASHER PLACEMENT

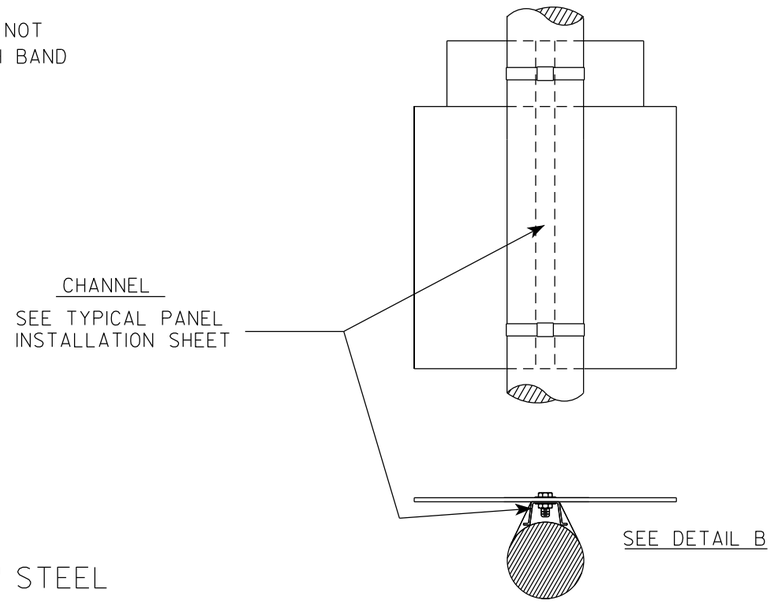


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

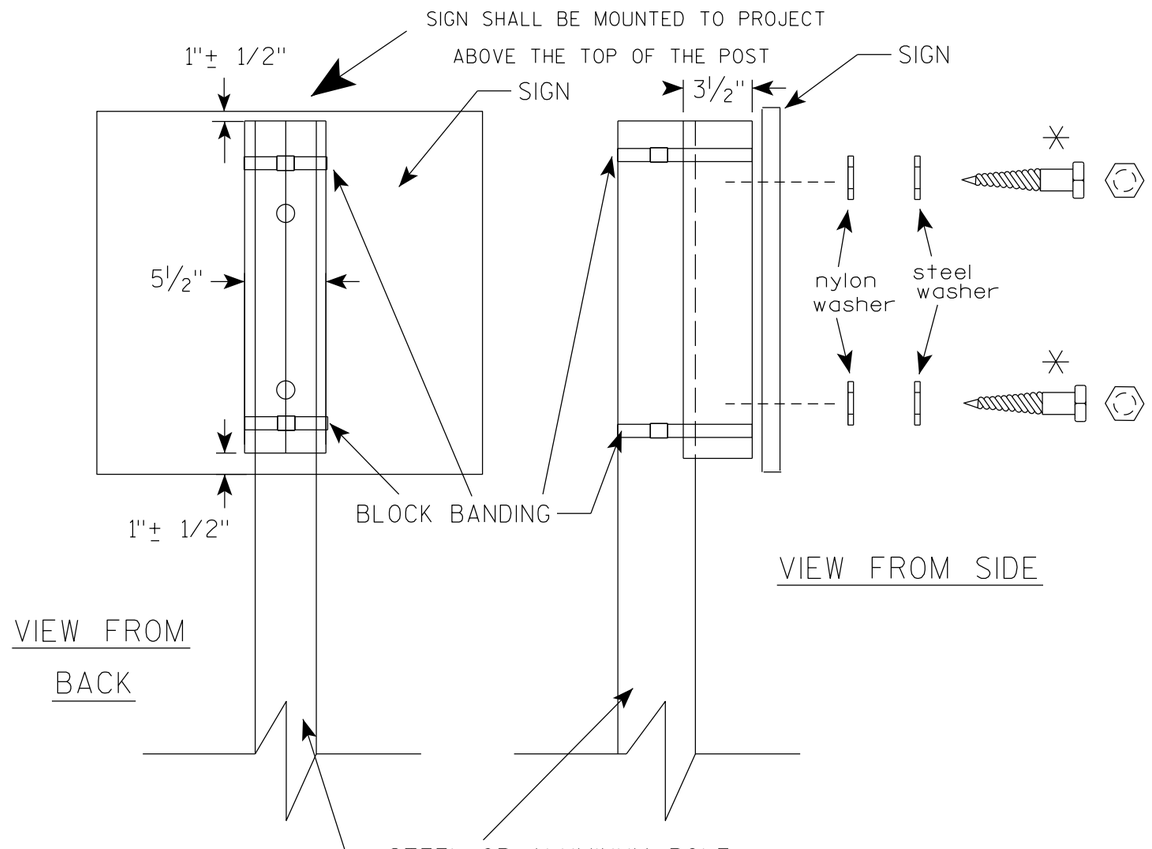
DATE 6/10/19 PLATE NO. A5-9.4

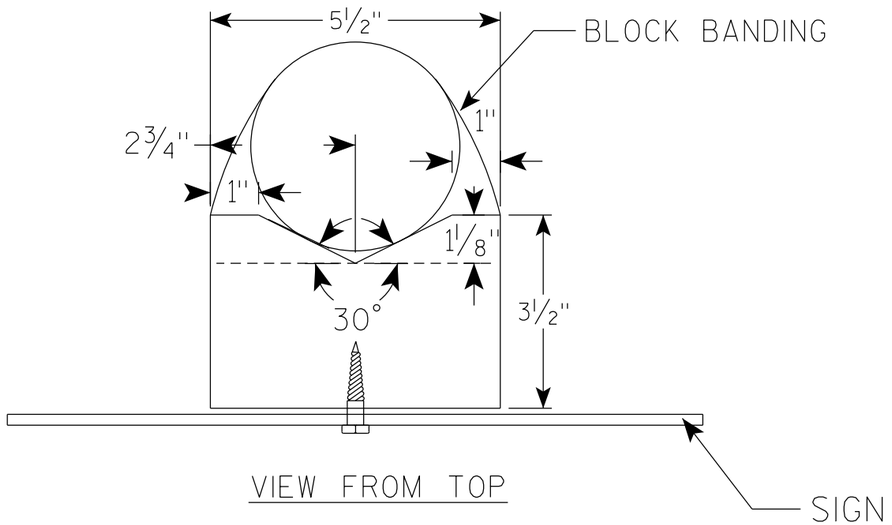
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 179	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

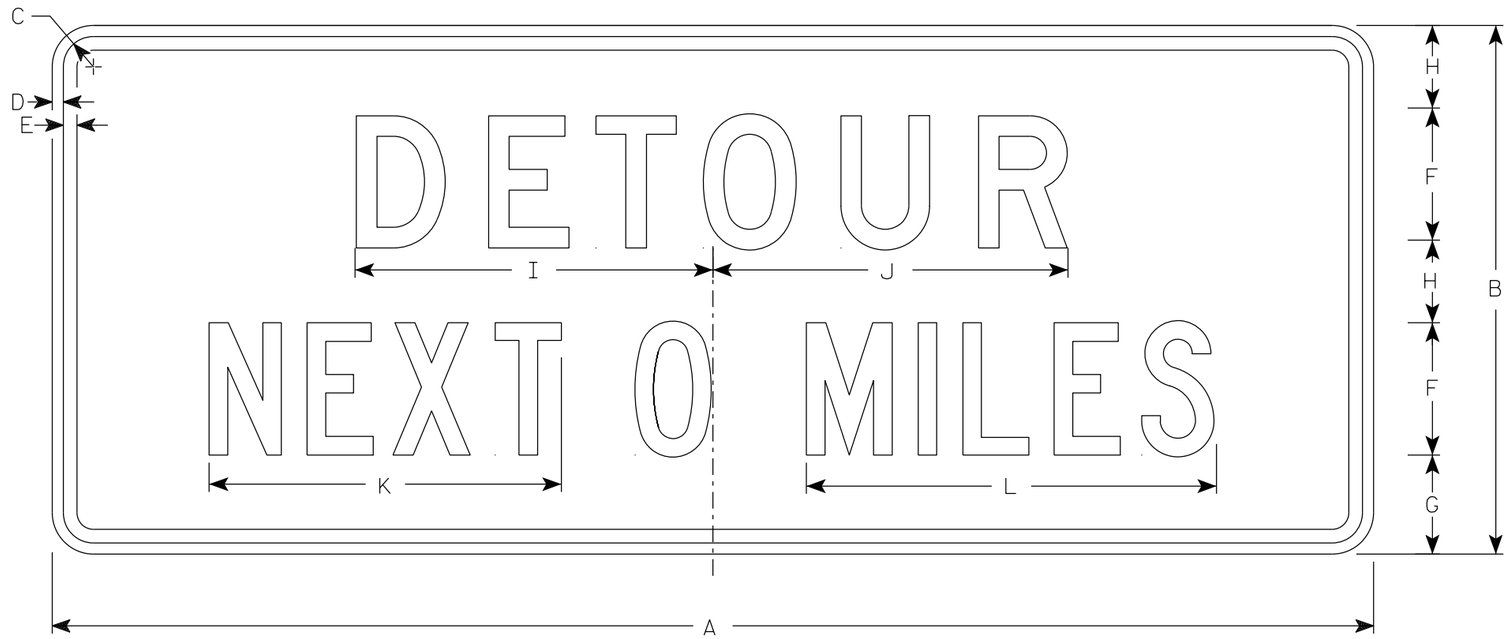
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 180 E



G20-51

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - Line 1 is D and Line 2 is C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0
2M	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0
3	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0
4	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0
5	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0

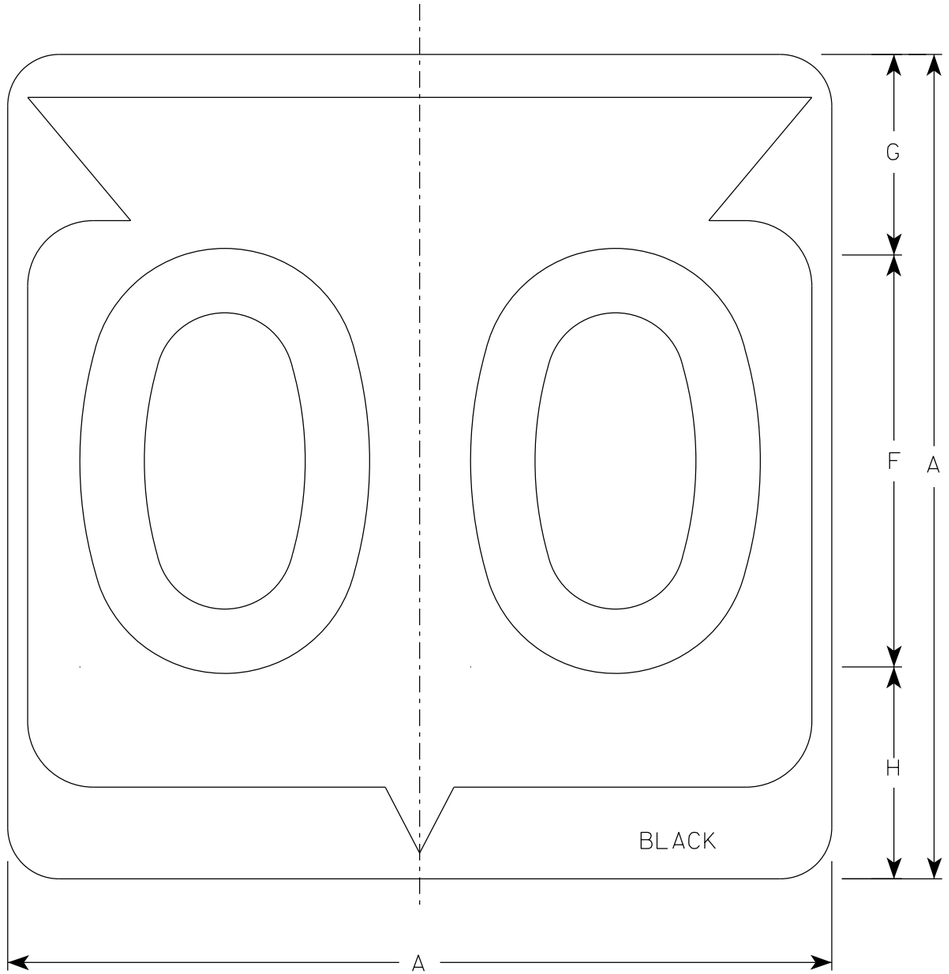
STANDARD SIGN
G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-51.3

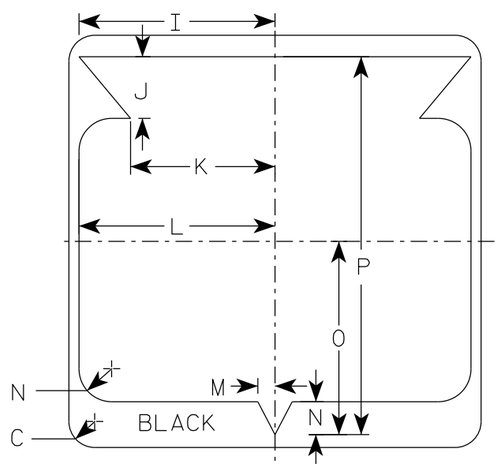
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 181	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

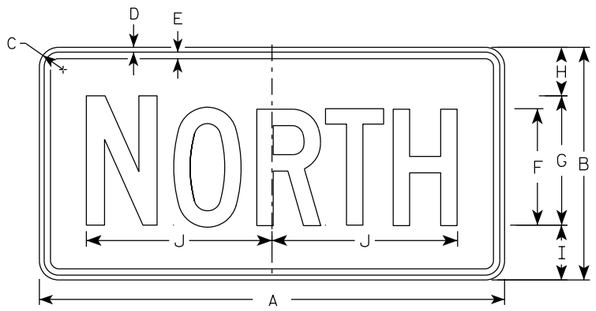
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

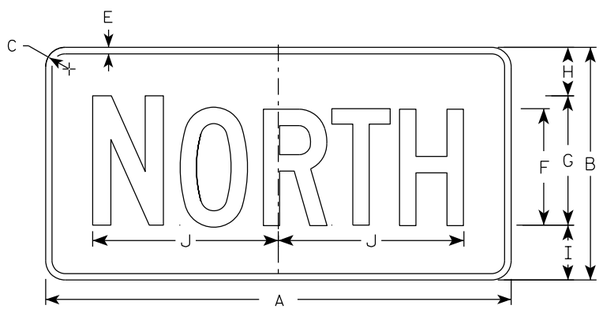
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

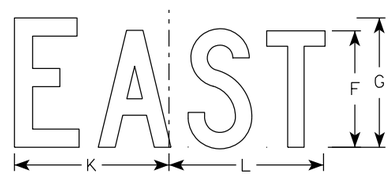
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 182	E



M3-1
MM3-1
MP3-1



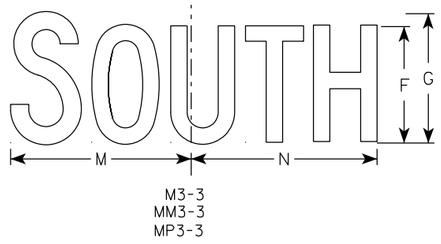
MB3-1
MK3-1
MN3-1



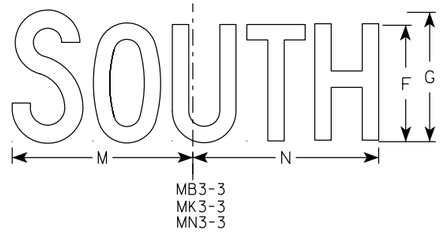
M3-2
MM3-2
MP3-2



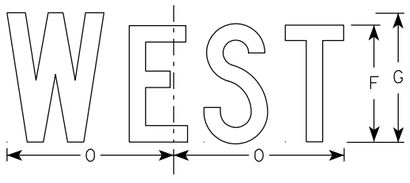
MB3-2
MK3-2
MN3-2



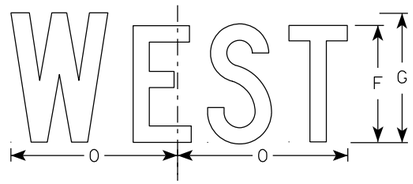
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

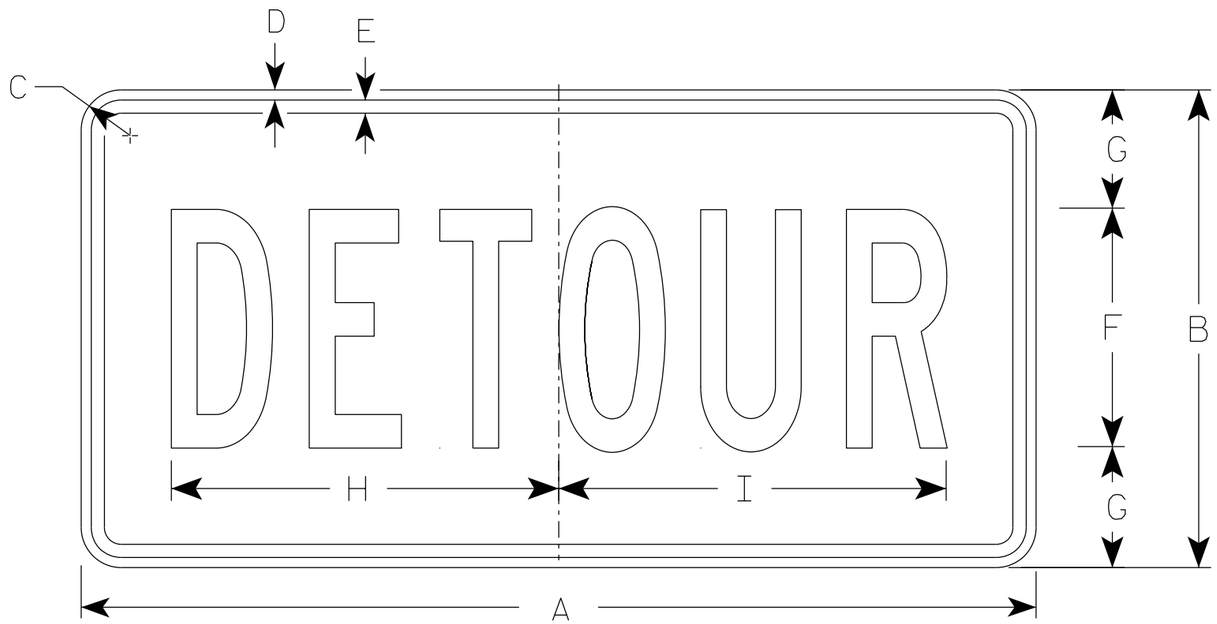
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 183 | E



M4-8

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

STANDARD SIGN
M4-8

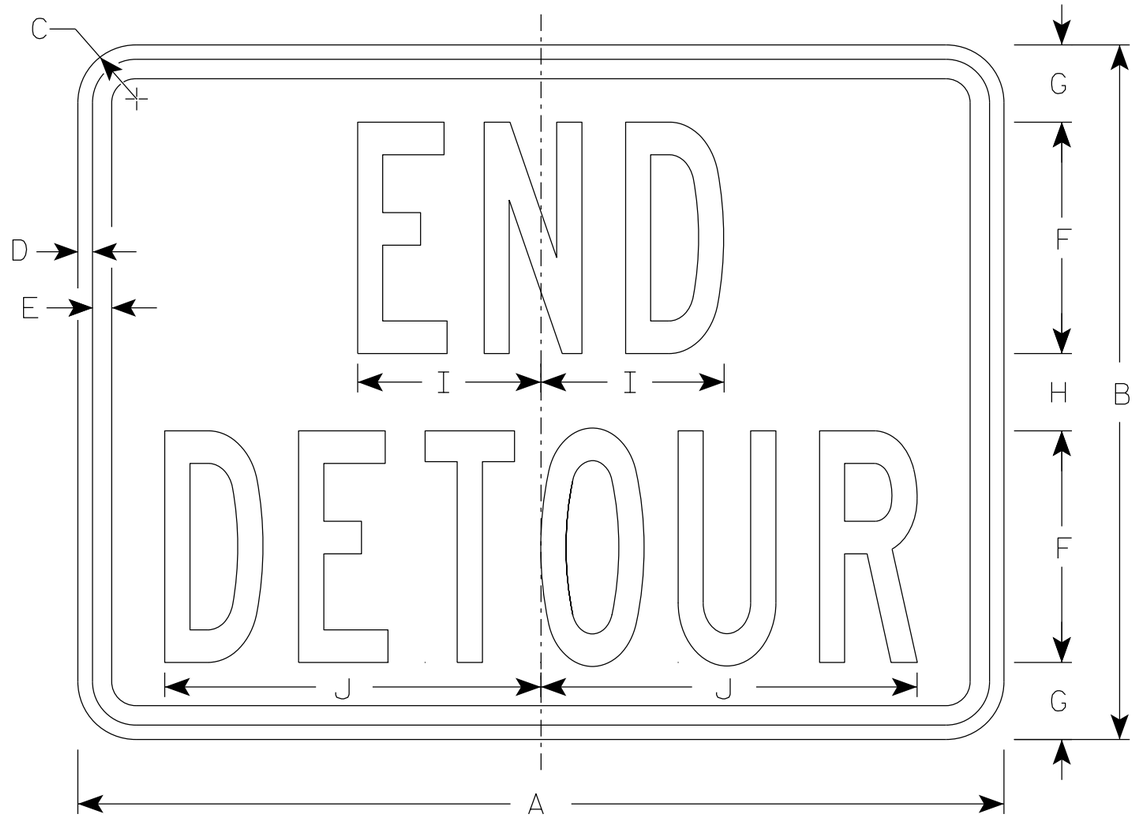
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M48.dgn PLOT DATE : 9-FEB 2023 7:38 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

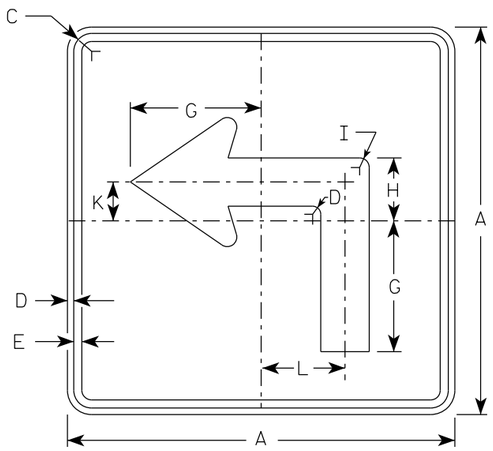
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

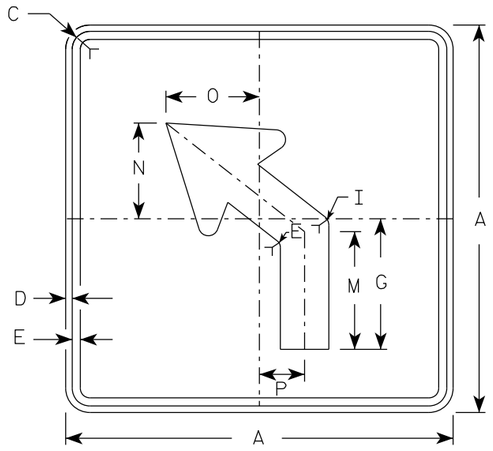
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 185 | E

7

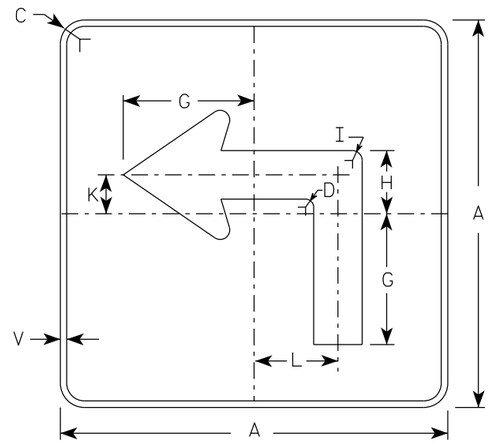
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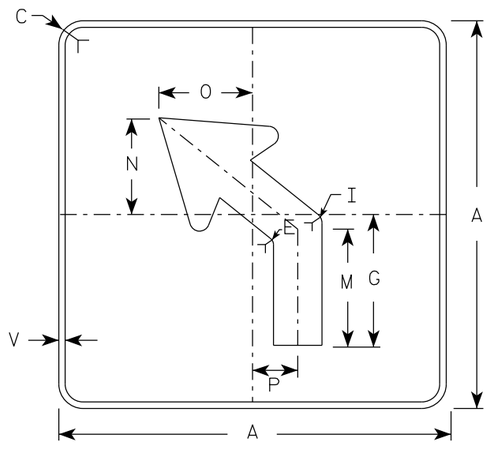
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

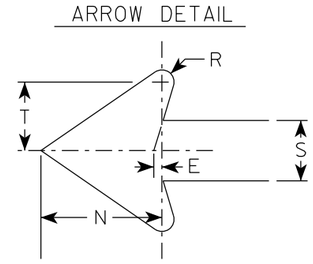


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

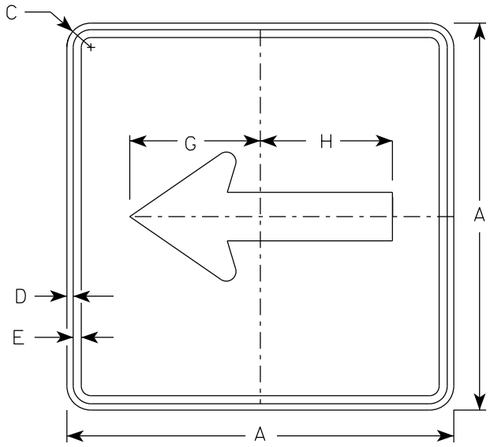
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

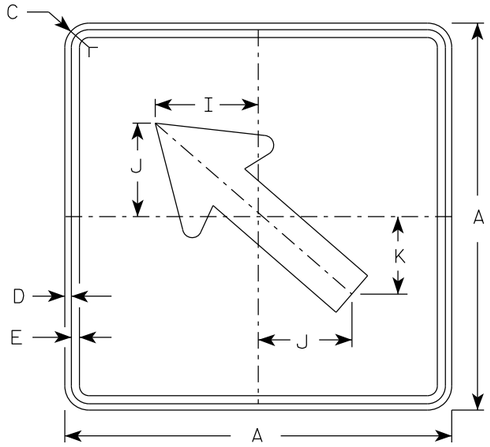
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

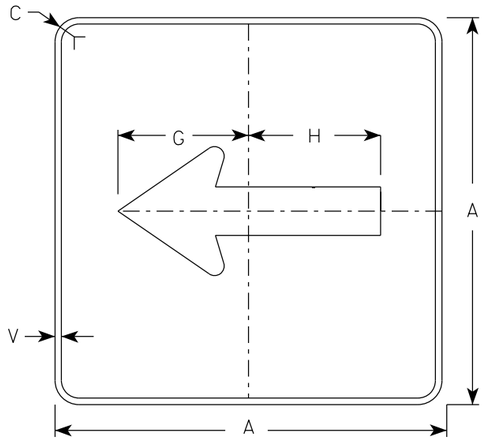
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 186 | E



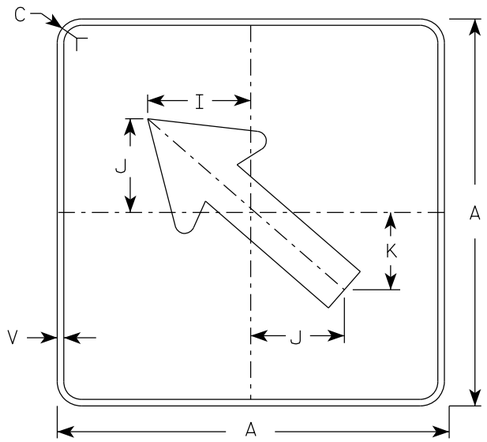
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

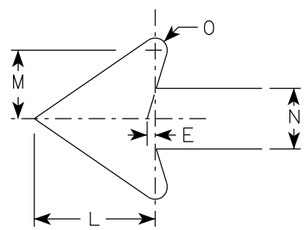


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

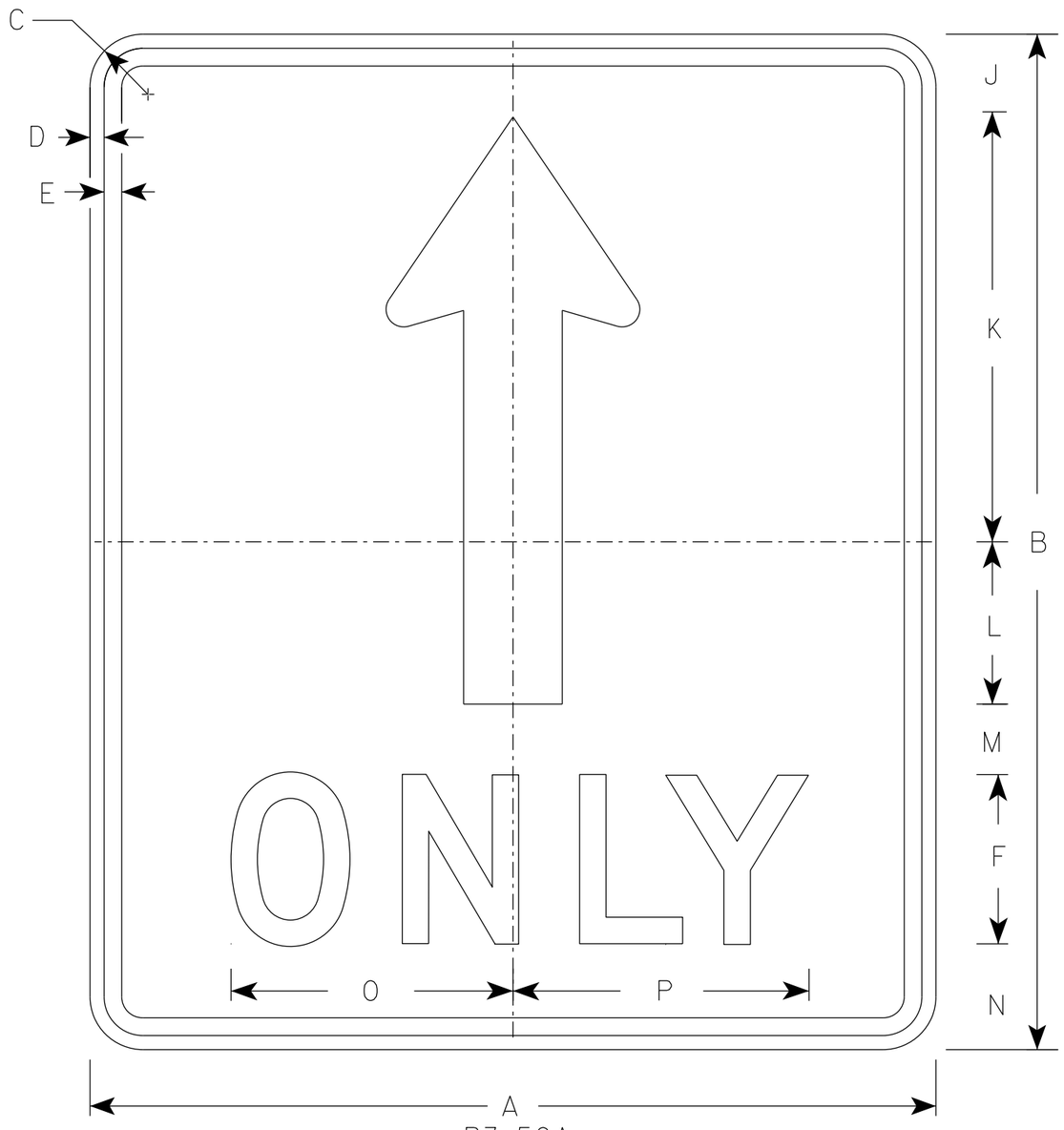
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

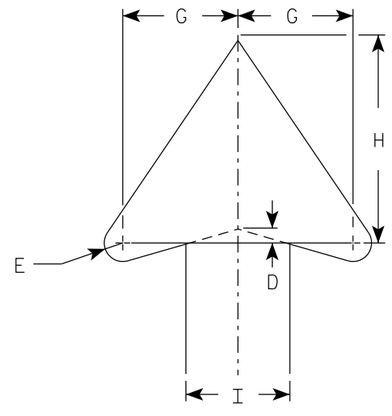
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 187 E



R3-50A

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 7/8	1/2	5/8	6	4	7	3 1/2	2 3/4	15 1/4	5 3/4	2 1/2	3 3/4	10	10 1/2											7.5
2M	30	36	1 7/8	1/2	5/8	6	4	7	3 1/2	2 3/4	15 1/4	5 3/4	2 1/2	3 3/4	10	10 1/2											7.5
3																											
4																											
5																											

STANDARD SIGN
R3-50A

WISCONSIN DEPT OF TRANSPORTATION

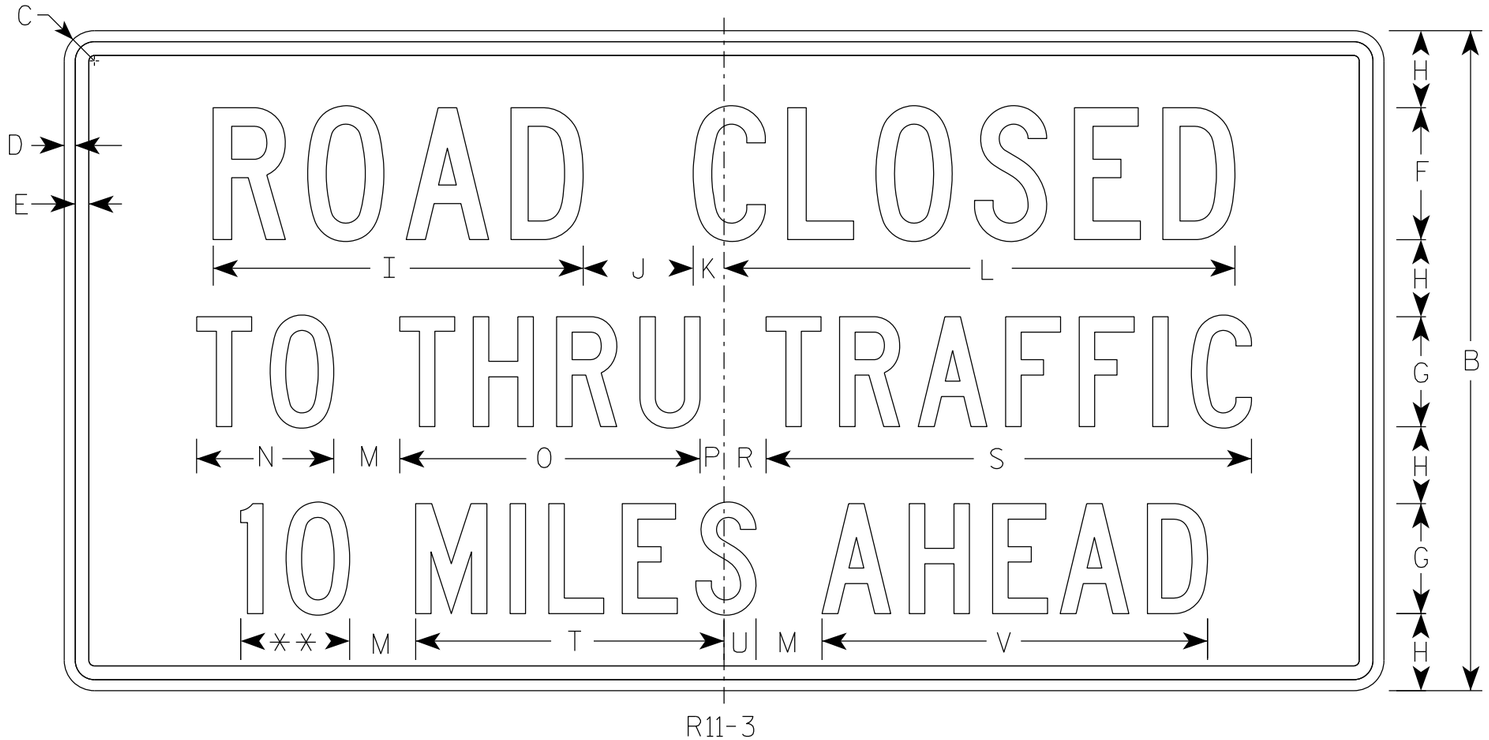
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-50A.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 188 | E

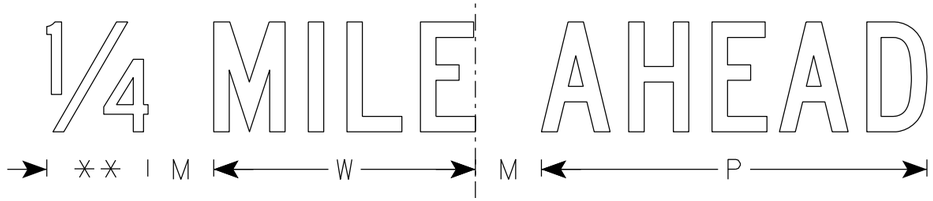
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

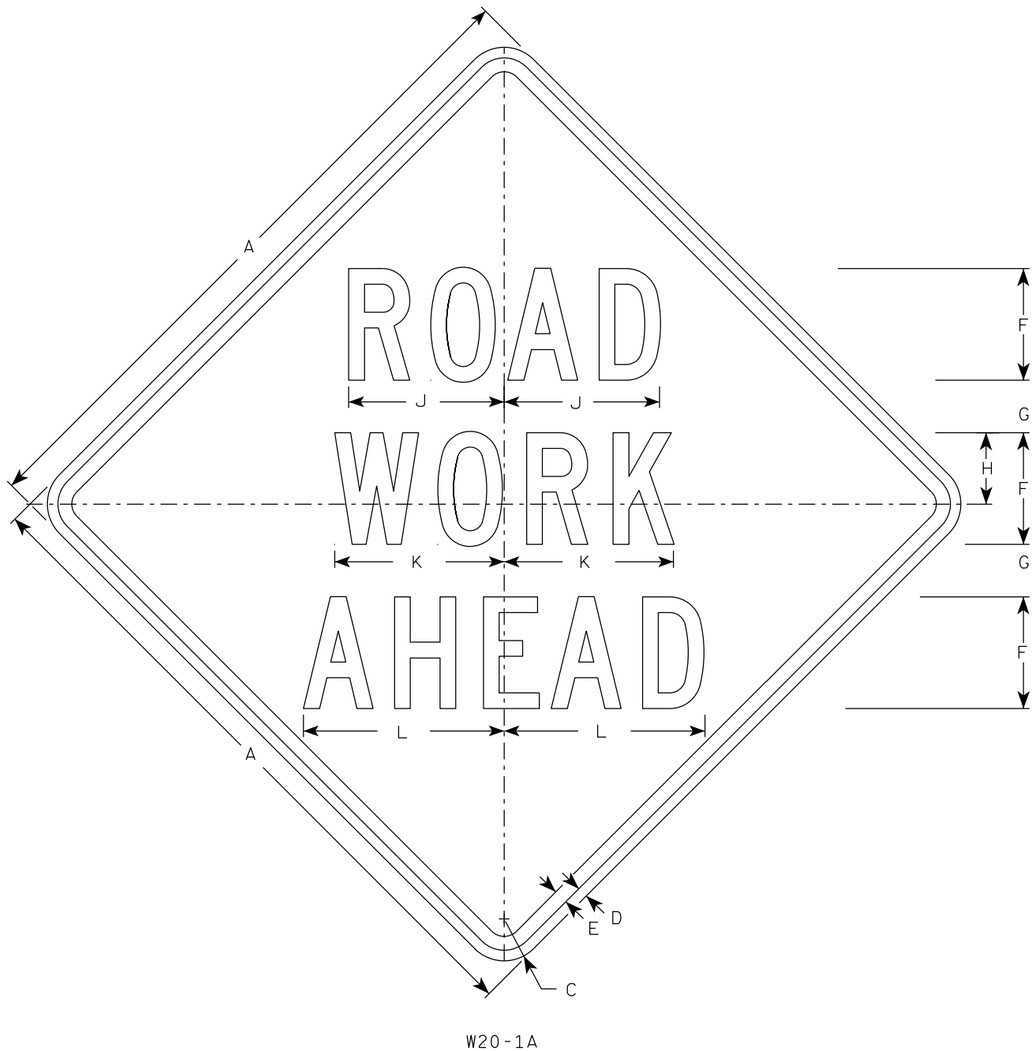
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

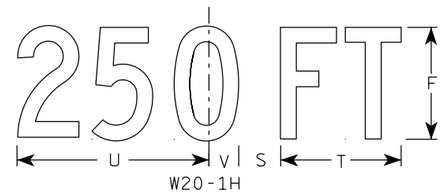
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

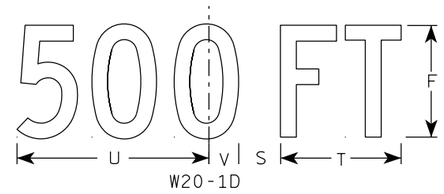
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 189 E



W20-1A



W20-1H



W20-1D



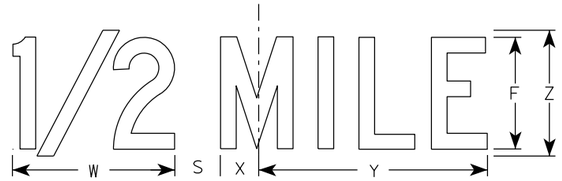
W20-1C



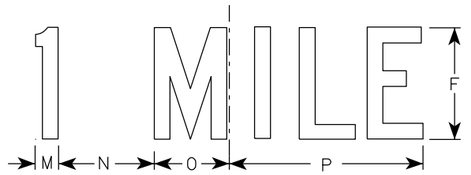
W20-1B

NOTES

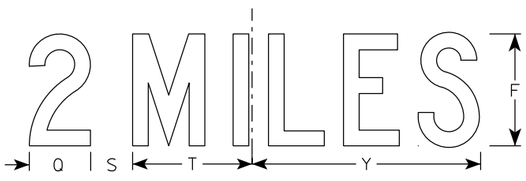
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

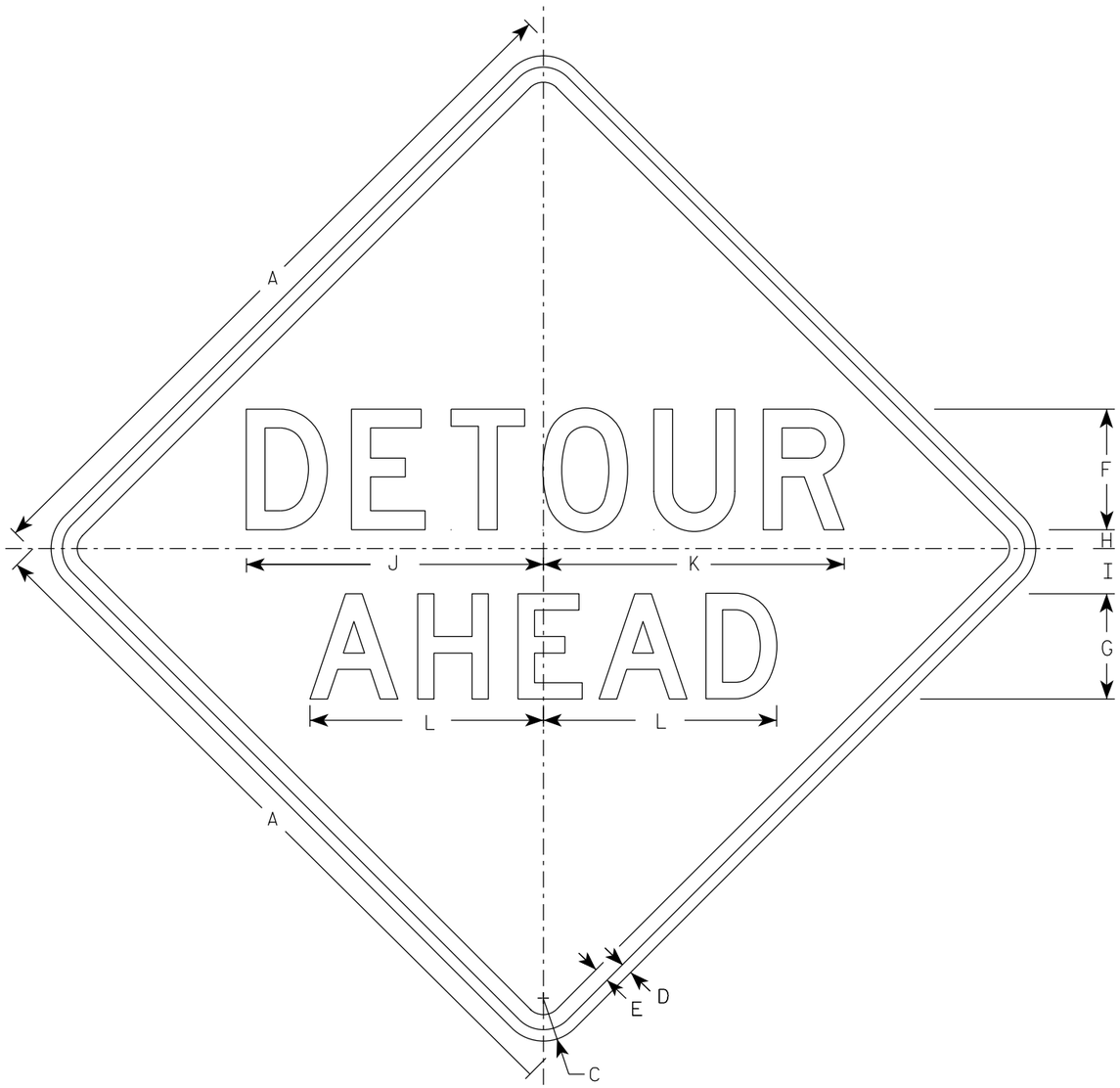
SHEET NO: 190 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 10-JAN 2024 11:16 PLOT BY : dotc4c

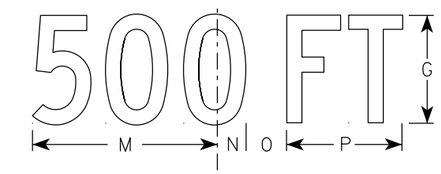
WISDOT/CADDS SHEET 42

7

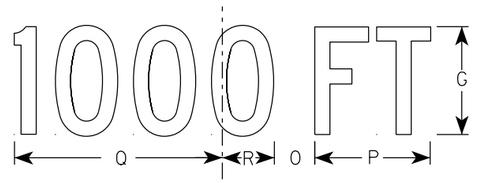
7



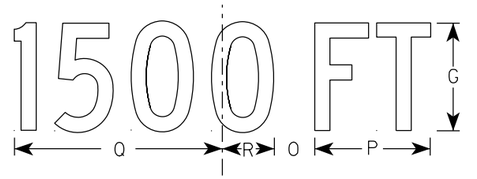
W20-2A



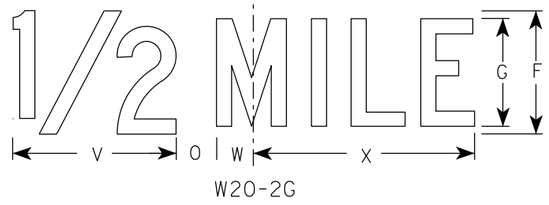
W20-2D



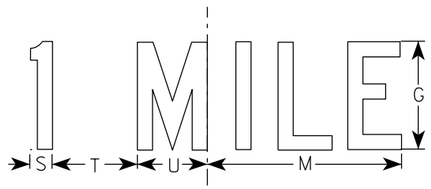
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

DIVISION 1 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.00	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
112+67.63	11267.63	0.00	0.00	6.00	3.72	0	0	0	0	0	0
112+75.00	11275.00	7.37	0.00	6.00	3.57	0	2	1	0	1	-3
113+00.00	11300.00	25.00	0.04	6.00	2.73	0	6	3	0	4	-12
113+25.00	11325.00	25.00	0.00	6.00	13.74	0	6	8	0	12	-26
113+50.00	11350.00	25.00	0.00	6.00	47.04	0	6	28	0	40	-60
113+75.00	11375.00	25.00	0.00	6.00	150.62	0	6	92	0	132	-158
114+00.00	11400.00	25.00	0.00	6.00	298.46	0	6	208	0	340	-372
114+25.00	11425.00	25.00	4.05	6.00	121.70	2	6	195	2	535	-571
114+50.00	11450.00	25.00	6.63	6.00	79.82	5	6	93	7	628	-665
114+75.00	11475.00	25.00	1.40	6.00	48.32	4	6	59	11	687	-726
115+00.00	11500.00	25.00	0.00	6.00	66.94	1	6	53	12	740	-784
115+25.00	11525.00	25.00	0.13	6.00	72.77	0	6	65	12	805	-855
115+50.00	11550.00	25.00	0.05	6.00	88.49	0	6	75	12	880	-936
115+75.00	11575.00	25.00	0.00	6.00	108.94	0	6	91	12	971	-1,033
116+00.00	11600.00	25.00	0.00	6.00	105.56	0	6	99	12	1,070	-1,138
116+25.00	11625.00	25.00	0.00	6.00	102.04	0	6	96	12	1,166	-1,240
116+50.00	11650.00	25.00	0.06	6.00	96.82	0	6	92	12	1,258	-1,338
116+75.00	11675.00	25.00	0.00	6.00	91.67	0	6	87	12	1,345	-1,431
117+00.00	11700.00	25.00	0.00	6.00	72.00	0	6	76	12	1,421	-1,513
117+25.00	11725.00	25.00	0.00	6.00	73.03	0	6	67	12	1,488	-1,586
117+50.00	11750.00	25.00	0.00	6.00	73.80	0	6	68	12	1,556	-1,660
117+75.00	11775.00	25.00	0.06	6.00	71.01	0	6	67	12	1,623	-1,733
118+00.00	11800.00	25.00	0.00	6.00	52.72	0	6	57	12	1,680	-1,796
118+25.00	11825.00	25.00	0.00	6.00	45.75	0	6	46	12	1,726	-1,848
118+50.00	11850.00	25.00	0.01	6.00	31.38	0	6	36	12	1,762	-1,890
118+75.00	11875.00	25.00	0.00	6.00	24.30	0	6	26	12	1,788	-1,922
119+00.00	11900.00	25.00	0.00	6.00	93.07	0	6	54	12	1,842	-1,982
119+25.00	11925.00	25.00	0.00	6.00	80.68	0	6	80	12	1,922	-2,068
119+50.00	11950.00	25.00	0.00	6.00	75.78	0	6	72	12	1,994	-2,146
119+75.00	11975.00	25.00	0.00	6.00	55.41	0	6	61	12	2,055	-2,213
119+75.85	11975.85	0.85	0.00	6.00	54.98	0	0	2	12	2,057	-2,215

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

*EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS.
EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

DIVISION 2 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.00	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
140+02.96	14002.96	0.00	0.00	6.00	1.35	0	0	0	0	0	0
140+25.00	14025.00	22.04	0.73	6.00	3.97	0	5	2	0	2	-7
140+50.00	14050.00	25.00	0.02	6.00	13.08	0	6	8	0	10	-21
140+75.00	14075.00	25.00	0.00	6.00	34.64	0	6	22	0	32	-49
141+00.00	14100.00	25.00	0.00	6.00	0.19	0	6	16	0	48	-71
141+25.00	14125.00	25.00	1.94	6.00	1.40	1	6	1	1	49	-77
141+50.00	14150.00	25.00	6.15	6.00	7.92	4	6	4	5	53	-83
141+75.00	14175.00	25.00	0.85	6.00	69.14	3	6	36	8	89	-122
141+75.69	14175.69	0.69	0.86	6.00	71.00	0	0	2	8	91	-124
142+00.00	14200.00	24.31	0.00	6.00	123.74	0	5	88	8	179	-217
142+25.00	14225.00	25.00	0.00	6.00	209.26	0	6	154	8	333	-377
142+26.52	14226.52	1.52	0.00	6.00	215.90	0	0	12	8	345	-389
142+50.00	14250.00	23.48	0.00	6.00	308.30	0	5	228	8	573	-622
142+67.19	14267.19	17.19	0.00	6.00	289.80	0	4	190	8	763	-816
142+75.00	14275.00	7.81	0.00	6.00	284.17	0	2	83	8	846	-901
142+77.36	14277.36	2.36	0.00	6.00	282.18	0	1	25	8	871	-927
142+87.52	14287.52	10.16	0.00	6.00	275.31	0	2	105	8	976	-1,034
143+00.00	14300.00	12.48	0.00	6.00	234.78	0	3	118	8	1,094	-1,155
143+25.00	14325.00	25.00	0.00	6.00	220.97	0	6	211	8	1,305	-1,372
143+50.00	14350.00	25.00	0.00	6.00	188.03	0	6	189	8	1,494	-1,567
143+75.00	14375.00	25.00	0.00	6.00	147.76	0	6	155	8	1,649	-1,728
144+00.00	14400.00	25.00	0.00	6.00	105.47	0	6	117	8	1,766	-1,851
144+25.00	14425.00	25.00	0.92	6.00	104.64	0	6	97	8	1,863	-1,954
144+50.00	14450.00	25.00	0.01	6.00	51.47	0	6	72	8	1,935	-2,032
144+75.00	14475.00	25.00	0.03	6.00	87.22	0	6	64	8	1,999	-2,102
145+00.00	14500.00	25.00	0.00	6.00	47.43	0	6	62	8	2,061	-2,170
145+25.00	14525.00	25.00	0.00	6.00	34.32	0	6	38	8	2,099	-2,214
145+43.25	14543.25	18.25	0.00	6.00	22.51	0	4	19	8	2,118	-2,237

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

DIVISION 3 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.00	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
152+10.65	15210.65	0.00	0.00	6.00	31.39	0	0	0	0	0	0
152+25.00	15225.00	14.35	6.06	6.00	50.89	2	3	22	2	22	-23
152+50.00	15250.00	25.00	1.11	6.00	74.37	3	6	58	5	80	-84
152+75.00	15275.00	25.00	0.00	6.00	108.70	1	6	85	6	165	-174
153+00.00	15300.00	25.00	0.00	6.00	69.19	0	6	82	6	247	-262
153+25.00	15325.00	25.00	0.00	6.00	34.56	0	6	48	6	295	-316
153+50.00	15350.00	25.00	0.99	6.00	54.89	0	6	41	6	336	-363
153+75.00	15375.00	25.00	0.00	6.00	49.54	0	6	48	6	384	-417
154+00.00	15400.00	25.00	0.00	6.00	28.90	0	6	36	6	420	-459
154+25.00	15425.00	25.00	0.00	6.00	16.51	0	6	21	6	441	-486
154+50.00	15450.00	25.00	0.00	6.00	4.23	0	6	10	6	451	-502
154+52.54	15452.54	2.54	0.00	6.00	3.89	0	1	0	6	451	-503

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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SHAPING, FINISHING.*

9

9

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090101_EW.DWG
LAYOUT NAME - 03 EARTHWORK QUANTITIES
PLOT DATE : 7/21/2025 4:31 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 49

DIVISION 4 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
164+82.09	16482.09	0.00	0.00	6.00	12.08	0	0	0	0	0	0
165+00.00	16500.00	17.91	0.00	6.00	28.63	0	4	14	0	14	-18
165+25.00	16525.00	25.00	0.00	6.00	50.31	0	6	37	0	51	-61
165+50.00	16550.00	25.00	0.00	6.00	70.34	0	6	56	0	107	-123
165+75.00	16575.00	25.00	0.00	6.00	51.12	0	6	56	0	163	-185
166+00.00	16600.00	25.00	0.00	6.00	117.42	0	6	78	0	241	-269
166+25.00	16625.00	25.00	0.00	6.00	178.48	0	6	137	0	378	-412
166+50.00	16650.00	25.00	0.00	6.00	171.38	0	6	162	0	540	-580
166+75.00	16675.00	25.00	0.04	6.00	229.63	0	6	186	0	726	-772
167+00.00	16700.00	25.00	0.00	6.00	299.08	0	6	245	0	971	-1,023
167+25.00	16725.00	25.00	0.00	6.00	376.49	0	6	313	0	1,284	-1,342
167+50.00	16750.00	25.00	0.06	6.00	409.97	0	6	364	0	1,648	-1,712
167+75.00	16775.00	25.00	0.11	6.00	390.65	0	6	371	0	2,019	-2,089
168+00.00	16800.00	25.00	0.00	6.00	333.16	0	6	335	0	2,354	-2,430
168+25.00	16825.00	25.00	0.00	6.00	266.86	0	6	278	0	2,632	-2,714
168+50.00	16850.00	25.00	0.00	6.00	162.85	0	6	199	0	2,831	-2,919
168+75.00	16875.00	25.00	0.00	6.00	95.26	0	6	119	0	2,950	-3,044
169+00.00	16900.00	25.00	0.00	6.00	72.00	0	6	77	0	3,027	-3,127
169+25.00	16925.00	25.00	0.00	6.00	158.78	0	6	107	0	3,134	-3,240
169+50.00	16950.00	25.00	0.00	6.00	164.60	0	6	150	0	3,284	-3,396
169+75.00	16975.00	25.00	0.00	6.00	225.07	0	6	180	0	3,464	-3,582
170+00.00	17000.00	25.00	0.00	6.00	165.93	0	6	181	0	3,645	-3,769
170+25.00	17025.00	25.00	0.00	6.00	146.53	0	6	145	0	3,790	-3,920
170+50.00	17050.00	25.00	0.00	6.00	63.46	0	6	97	0	3,887	-4,023
170+75.00	17075.00	25.00	0.15	6.00	11.94	0	6	35	0	3,922	-4,064
170+82.20	17082.20	7.20	0.00	6.00	8.81	0	2	3	0	3,925	-4,069

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS. EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING, SHAPING, FINISHING.

DIVISION 5 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.00	NOTE 8
177+48.73	17748.73	0.00	0.00	6.00	0.14	0	0	0	0	0	0
177+50.00	17750.00	1.27	0.00	6.00	0.30	0	0	0	0	0	0
177+75.00	17775.00	25.00	0.00	6.00	10.99	0	6	5	0	5	-11
178+00.00	17800.00	25.00	0.00	6.00	13.95	0	6	12	0	17	-29
178+25.00	17825.00	25.00	0.00	6.00	43.95	0	6	27	0	44	-62
178+50.00	17850.00	25.00	0.00	6.00	35.90	0	6	37	0	81	-105
178+75.00	17875.00	25.00	0.00	6.00	50.80	0	6	40	0	121	-151
179+00.00	17900.00	25.00	0.00	6.00	0.04	0	6	24	0	145	-181
179+25.00	17925.00	25.00	0.03	6.00	0.32	0	6	0	0	145	-187
179+50.00	17950.00	25.00	0.01	6.00	1.92	0	6	1	0	146	-194
179+75.00	17975.00	25.00	0.00	6.00	4.69	0	6	3	0	149	-203
180+00.00	18000.00	25.00	0.00	6.00	8.77	0	6	6	0	155	-215
180+25.00	18025.00	25.00	0.89	6.00	34.99	0	6	20	0	175	-241
180+50.00	18050.00	25.00	1.06	6.00	2.06	1	6	17	1	192	-263
180+75.00	18075.00	25.00	0.71	6.00	2.61	1	6	2	2	194	-270
181+00.00	18100.00	25.00	0.00	6.00	0.36	0	6	1	2	195	-277
181+25.00	18125.00	25.00	0.00	6.00	1.15	0	6	1	2	196	-284
181+50.00	18150.00	25.00	0.00	6.00	2.61	0	6	2	2	198	-292
181+75.00	18175.00	25.00	0.00	6.00	3.35	0	6	3	2	201	-301
182+00.00	18200.00	25.00	0.00	6.00	2.21	0	6	3	2	204	-310
182+25.00	18225.00	25.00	0.00	6.00	1.48	0	6	2	2	206	-318
182+50.00	18250.00	25.00	0.00	6.00	0.58	0	6	1	2	207	-325
182+75.00	18275.00	25.00	0.15	6.00	0.27	0	6	0	2	207	-331
183+00.00	18300.00	25.00	0.00	6.00	0.20	0	6	0	2	207	-337
183+25.00	18325.00	25.00	0.00	6.00	0.27	0	6	0	2	207	-343
183+50.00	18350.00	25.00	0.00	6.00	0.43	0	6	0	2	207	-349
183+75.00	18375.00	25.00	0.00	6.00	0.72	0	6	1	2	208	-356
184+00.00	18400.00	25.00	0.00	6.00	0.79	0	6	1	2	209	-363
184+25.00	18425.00	25.00	0.02	6.00	0.67	0	6	1	2	210	-370
184+50.00	18450.00	25.00	0.00	6.00	0.81	0	6	1	2	211	-377
184+75.00	18475.00	25.00	0.00	6.00	0.72	0	6	1	2	212	-384
185+00.00	18500.00	25.00	0.00	6.00	0.75	0	6	1	2	213	-391
185+25.00	18525.00	25.00	0.81	6.00	1.37	0	6	1	2	214	-398
185+50.00	18550.00	25.00	0.07	6.00	5.02	0	6	3	2	217	-407
185+75.00	18575.00	25.00	1.31	6.00	5.25	1	6	5	3	222	-417
186+00.00	18600.00	25.00	0.00	6.00	7.81	1	6	6	4	228	-428
186+25.00	18625.00	25.00	0.00	6.00	134.28	0	6	66	4	294	-500
186+50.00	18650.00	25.00	0.10	6.00	25.29	0	6	74	4	368	-580
186+75.00	18675.00	25.00	0.06	6.00	16.69	0	6	19	4	387	-605
187+00.00	18700.00	25.00	0.00	6.00	1.68	0	6	9	4	396	-620
187+05.31	18705.31	5.31	0.00	6.00	1.90	0	1	0	4	396	-621

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

DIVISION 6 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
219+37.47	21937.47	0.00	36.04	6.00	2.05	0	0	0	0	0	0
219+50.00	21950.00	12.53	76.47	6.00	17.38	26	3	5	26	5	18
219+75.00	21975.00	25.00	81.05	6.00	20.70	313	6	18	339	23	307
220+00.00	22000.00	25.00	81.28	6.00	22.92	75	6	20	414	43	356
220+25.00	22025.00	25.00	72.04	6.00	47.15	71	6	32	485	75	389
220+29.89	22029.89	4.89	0.00	6.00	0.00	7	1	4	492	79	391

DIVISION 7 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
245+82.97	24582.97	0.00	0.00	6.00	0.00	0	0	0	0	0	0
246+00.00	24600.00	17.03	80.14	6.00	71.94	45	4	23	45	23	18
246+25.00	24625.00	25.00	81.36	6.00	67.52	75	6	65	120	88	22
246+33.05	24633.05	8.05	81.34	6.00	62.11	24	2	19	144	107	25

DIVISION 8 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
261+85.44	26185.44	0.00	84.63	6.00	32.14	0	0	0	0	0	0
262+00.00	26200.00	14.56	84.22	6.00	33.47	46	3	18	46	18	25
262+25.00	26225.00	25.00	83.96	6.00	31.62	243	6	30	289	48	232
262+45.44	26245.44	20.44	0.00	6.00	0.00	32	5	12	321	60	247

DIVISION 9 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
384+56.05	38456.05	0.00	68.21	6.00	25.26	0	0	0	0	0	0
384+60.75	38460.75	4.70	68.31	6.00	25.34	12	1	4	12	4	7
384+75.00	38475.00	14.25	69.48	6.00	25.81	36	3	13	48	17	27
385+00.00	38500.00	25.00	73.36	6.00	18.71	101	6	21	149	38	101
385+11.75	38511.75	11.75	71.35	6.00	18.38	31	3	8	180	46	121
385+25.00	38525.00	13.25	70.90	6.00	14.59	35	3	8	215	54	145
385+27.60	38527.60	2.60	70.99	6.00	14.45	7	1	1	222	55	150

EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS. EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING, SHAPING, FINISHING.

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

DIVISION 10 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
426+54.42	42654.42	0.00	0.00	6.00	6.20	0	0	0	0	0	0
426+75.00	42675.00	20.58	0.00	6.00	4.93	0	5	4	0	4	-9
427+00.00	42700.00	25.00	0.00	6.00	10.79	0	6	7	0	11	-22
427+25.00	42725.00	25.00	0.00	6.00	7.77	0	6	9	0	20	-37
427+50.00	42750.00	25.00	0.65	6.00	7.65	0	6	7	0	27	-50
427+75.00	42775.00	25.00	0.49	6.00	0.52	1	6	4	1	31	-59
428+00.00	42800.00	25.00	0.00	6.00	0.02	0	6	0	1	31	-65
428+13.13	42813.13	13.13	0.00	6.00	0.00	0	3	0	1	31	-68

DIVISION 11 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
429+04.13	42904.13	0.00	0.00	6.00	4.41	0	0	0	0	0	0
429+25.00	42925.00	20.87	1.26	6.00	0.35	0	5	2	0	2	-7
429+50.00	42950.00	25.00	0.42	6.00	0.14	1	6	0	1	2	-12
429+75.00	42975.00	25.00	0.19	6.00	2.66	0	6	1	1	3	-19
430+00.00	43000.00	25.00	0.45	6.00	11.68	0	6	7	1	10	-32
430+25.00	43025.00	25.00	0.00	6.00	36.17	0	6	22	1	32	-60
430+50.00	43050.00	25.00	0.00	6.00	45.27	0	6	38	1	70	-104
430+75.00	43075.00	25.00	0.00	6.00	16.65	0	6	29	1	99	-139
431+00.00	43100.00	25.00	0.00	6.00	17.42	0	6	16	1	115	-161
431+22.99	43122.99	22.99	0.00	6.00	19.14	0	5	16	1	131	-182

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

*EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS.
EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

DIVISION 12 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
500+90.68	50090.68	0.00	0.78	6.00	0.00	0	0	0	0	0	0
501+00.00	50100.00	9.32	0.00	6.00	0.04	0	2	0	0	0	-2
501+25.00	50125.00	25.00	0.25	6.00	1.37	0	6	1	0	1	-9
501+50.00	50150.00	25.00	0.05	6.00	2.01	0	6	2	0	3	-17
501+75.00	50175.00	25.00	0.00	6.00	0.67	0	6	1	0	4	-24
502+00.00	50200.00	25.00	1.28	6.00	0.00	1	6	0	1	4	-29
502+25.00	50225.00	25.00	1.02	6.00	0.00	1	6	0	2	4	-34
502+50.00	50250.00	25.00	0.60	6.00	0.00	1	6	0	3	4	-39
502+75.00	50275.00	25.00	0.15	6.00	0.00	0	6	0	3	4	-45
503+00.00	50300.00	25.00	0.00	6.00	24.72	0	6	11	3	15	-62
503+25.00	50325.00	25.00	0.21	6.00	43.93	0	6	32	3	47	-100
503+50.00	50350.00	25.00	0.25	6.00	67.02	0	6	51	3	98	-157
503+75.00	50375.00	25.00	0.10	6.00	69.85	0	6	63	3	161	-226
504+00.00	50400.00	25.00	0.00	6.00	11.83	0	6	38	3	199	-270
504+25.00	50425.00	25.00	0.13	6.00	14.42	0	6	12	3	211	-288
504+50.00	50450.00	25.00	0.00	6.00	11.77	0	6	12	3	223	-306
504+75.00	50475.00	25.00	0.18	6.00	8.14	0	6	9	3	232	-321
505+00.00	50500.00	25.00	0.00	6.00	3.20	0	6	5	3	237	-332
505+25.00	50525.00	25.00	3.15	6.00	1.43	1	6	2	4	239	-339
505+50.00	50550.00	25.00	0.54	6.00	5.59	2	6	3	6	242	-346
505+75.00	50575.00	25.00	0.47	6.00	2.06	0	6	4	6	246	-356
506+00.00	50600.00	25.00	0.00	6.00	1.56	0	6	2	6	248	-364
506+25.00	50625.00	25.00	0.03	6.00	1.77	0	6	2	6	250	-372
506+50.00	50650.00	25.00	0.24	6.00	1.54	0	6	2	6	252	-380
506+75.00	50675.00	25.00	0.00	6.00	0.42	0	6	1	6	253	-387
507+00.00	50700.00	25.00	0.00	6.00	0.60	0	6	0	6	253	-393
507+25.00	50725.00	25.00	0.00	6.00	0.69	0	6	1	6	254	-400
507+50.00	50750.00	25.00	0.00	6.00	1.84	0	6	1	6	255	-407
507+75.00	50775.00	25.00	0.18	6.00	1.71	0	6	2	6	257	-415
508+00.00	50800.00	25.00	2.75	6.00	0.11	1	6	1	7	258	-421
508+25.00	50825.00	25.00	0.93	6.00	0.27	2	6	0	9	258	-425
508+50.00	50850.00	25.00	0.53	6.00	0.93	1	6	1	10	259	-431
508+75.00	50875.00	25.00	0.67	6.00	3.41	1	6	2	11	261	-438
509+00.00	50900.00	25.00	0.00	6.00	11.84	0	6	7	11	268	-451
509+25.00	50925.00	25.00	0.01	6.00	41.36	0	6	25	11	293	-482
509+50.00	50950.00	25.00	0.86	6.00	18.50	0	6	28	11	321	-516
509+75.00	50975.00	25.00	0.81	6.00	19.13	1	6	17	12	338	-538
510+00.00	51000.00	25.00	0.00	6.00	18.24	0	6	17	12	355	-561
510+25.00	51025.00	25.00	0.00	6.00	26.47	0	6	21	12	376	-588
510+50.00	51050.00	25.00	0.00	6.00	37.54	0	6	30	12	406	-624
510+75.00	51075.00	25.00	0.00	6.00	47.88	0	6	40	12	446	-670
511+00.00	51100.00	25.00	0.00	6.00	42.71	0	6	42	12	488	-718
511+25.00	51125.00	25.00	0.25	6.00	9.81	0	6	24	12	512	-748
511+50.00	51150.00	25.00	0.07	6.00	107.04	0	6	54	12	566	-808
511+75.00	51175.00	25.00	0.00	6.00	140.95	0	6	115	12	681	-929
512+00.00	51200.00	25.00	0.00	6.00	193.08	0	6	155	12	836	-1,090
512+25.00	51225.00	25.00	1.68	6.00	54.64	1	6	115	13	951	-1,210
512+47.49	51247.49	22.49	0.00	6.00	0.06	1	5	23	14	974	-1,237

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW:
	[(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) -
	((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

*EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS.
EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

9

9

PROJECT NO: 1690-04-62 | HWY: STH 69 | COUNTY: GREEN | EARTHWORK DATA | SHEET 199 | E

DIVISION 13 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
614+52.58	61452.58	0.00	0.00	6.00	1.10	0	0	0	0	0	0
614+75.00	61475.00	22.42	0.00	6.00	1.30	0	5	1	0	1	-6
615+00.00	61500.00	25.00	0.00	6.00	1.10	0	6	1	0	2	-13
615+25.00	61525.00	25.00	0.00	6.00	0.93	0	6	1	0	3	-20
615+50.00	61550.00	25.00	0.00	6.00	1.29	0	6	1	0	4	-27
615+75.00	61575.00	25.00	0.00	6.00	0.05	0	6	1	0	5	-34
616+00.00	61600.00	25.00	0.00	6.00	0.12	0	6	0	0	5	-40
616+25.00	61625.00	25.00	0.00	6.00	0.00	0	6	0	0	5	-46
616+50.00	61650.00	25.00	0.00	6.00	0.04	0	6	0	0	5	-52
616+75.00	61675.00	25.00	0.02	6.00	0.04	0	6	0	0	5	-58
617+00.00	61700.00	25.00	0.00	6.00	2.14	0	6	1	0	6	-65
617+25.00	61725.00	25.00	0.00	6.00	5.27	0	6	3	0	9	-74
617+50.00	61750.00	25.00	0.00	6.00	4.60	0	6	5	0	14	-85
617+75.00	61775.00	25.00	0.00	6.00	3.27	0	6	4	0	18	-95
617+97.74	61797.74	22.74	0.00	6.00	1.90	0	5	2	0	20	-102

DIVISION 14 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
640+69.40	64069.40	0.00	86.95	6.00	0.19	0	0	0	0	0	0
640+75.00	64075.00	5.60	86.85	6.00	1.12	18	1	0	18	0	17
641+00.00	64100.00	25.00	90.16	6.00	0.55	97	6	1	115	1	107
641+09.40	64109.40	9.40	87.29	6.00	0.59	31	2	0	146	1	136

DIVISION 15 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
694+31.47	69431.47	0.00	73.63	6.00	15.33	0	0	0	0	0	0
694+50.00	69450.00	18.53	73.82	6.00	20.02	51	4	12	51	12	35
694+75.00	69475.00	25.00	73.37	6.00	58.55	443	6	36	494	48	436
695+00.00	69500.00	25.00	75.47	6.00	29.36	69	6	41	563	89	458
695+21.47	69521.47	21.47	74.72	6.00	32.44	60	5	25	623	114	488

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW:
	[(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) -
	((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

*EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS.
EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

9

9

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	EARTHWORK DATA	SHEET 200	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090101_EW.DWG
LAYOUT NAME - 09 EARTHWORK QUANTITIES

PLOT DATE : 7/21/2025 4:32 PM PLOT BY : RYAN BURKE PLOT NAME : PLOT SCALE : 1" = 1'

DIVISION 16 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
701+89.59	70189.59	0.00	0.00	6.00	33.34	0	0	0	0	0	0
702+00.00	70200.00	10.41	0.00	6.00	36.05	0	2	13	0	13	-15
702+25.00	70225.00	25.00	0.00	6.00	46.02	0	6	38	0	51	-59
702+50.00	70250.00	25.00	0.06	6.00	59.45	0	6	49	0	100	-114
702+75.00	70275.00	25.00	0.00	6.00	0.27	0	6	28	0	128	-148
703+00.00	70300.00	25.00	0.00	6.00	0.62	0	6	0	0	128	-154
703+25.00	70325.00	25.00	0.00	6.00	0.82	0	6	1	0	129	-161
703+50.00	70350.00	25.00	0.00	6.00	0.70	0	6	1	0	130	-168
703+75.00	70375.00	25.00	0.01	6.00	0.70	0	6	1	0	131	-175
704+00.00	70400.00	25.00	0.00	6.00	0.80	0	6	1	0	132	-182
704+25.00	70425.00	25.00	3.79	6.00	0.46	2	6	1	2	133	-187
704+50.00	70450.00	25.00	19.31	6.00	0.00	11	6	0	13	133	-182
704+75.00	70475.00	25.00	46.25	6.00	0.00	30	6	0	43	133	-158
705+00.00	70500.00	25.00	104.97	6.00	14.78	70	6	7	113	140	-101
705+25.00	70525.00	25.00	105.92	6.00	21.55	98	6	17	211	157	-26
705+50.00	70550.00	25.00	106.74	6.00	26.42	698	6	22	909	179	644
705+75.00	70575.00	25.00	106.53	6.00	41.06	99	6	31	1,008	210	706
706+00.00	70600.00	25.00	106.73	6.00	9.77	99	6	24	1,107	234	775
706+25.00	70625.00	25.00	36.67	6.00	0.25	66	6	5	1,173	239	830
706+50.00	70650.00	25.00	16.37	6.00	0.83	25	6	0	1,198	239	849
706+75.00	70675.00	25.00	4.70	6.00	0.78	10	6	1	1,208	240	852
707+00.00	70700.00	25.00	0.00	6.00	5.94	2	6	3	1,210	243	845
707+25.00	70725.00	25.00	0.00	6.00	6.44	0	6	6	1,210	249	833
707+50.00	70750.00	25.00	1.08	6.00	1.47	0	6	4	1,210	253	823
707+75.00	70775.00	25.00	1.58	6.00	1.54	1	6	1	1,211	254	817
708+00.00	70800.00	25.00	0.00	6.00	0.96	1	6	1	1,212	255	811
708+25.00	70825.00	25.00	0.03	6.00	1.65	0	6	1	1,212	256	804
708+50.00	70850.00	25.00	0.40	6.00	0.50	0	6	1	1,212	257	797
708+75.00	70875.00	25.00	0.60	6.00	1.31	0	6	1	1,212	258	790
709+00.00	70900.00	25.00	0.00	6.00	2.19	0	6	2	1,212	260	782
709+25.00	70925.00	25.00	0.29	6.00	1.54	0	6	2	1,212	262	774
709+50.00	70950.00	25.00	0.27	6.00	0.37	0	6	1	1,212	263	767
709+75.00	70975.00	25.00	0.03	6.00	0.89	0	6	1	1,212	264	760
710+00.00	71000.00	25.00	0.00	6.00	0.50	0	6	1	1,212	265	753
710+25.00	71025.00	25.00	0.00	6.00	1.62	0	6	1	1,212	266	746
710+50.00	71050.00	25.00	0.00	6.00	1.39	0	6	1	1,212	267	739
710+75.00	71075.00	25.00	0.00	6.00	0.28	0	6	1	1,212	268	732
711+00.00	71100.00	25.00	0.00	6.00	0.45	0	6	0	1,212	268	726
711+08.77	71108.77	8.77	0.01	6.00	0.44	0	2	0	1,212	268	724
711+25.00	71125.00	16.23	0.00	6.00	0.49	0	4	0	1,212	268	720
711+50.00	71150.00	25.00	0.00	6.00	0.41	0	6	0	1,212	268	714
711+60.08	71160.08	10.08	0.00	6.00	0.38	0	2	0	1,212	268	712
711+75.00	71175.00	14.92	0.00	6.00	0.32	0	3	0	1,212	268	709
711+99.41	71199.41	24.41	0.00	6.00	0.14	0	5	0	1,212	268	704
712+00.00	71200.00	0.59	0.00	6.00	0.14	0	0	0	1,212	268	704
712+11.38	71211.38	11.38	0.00	6.00	0.03	0	3	0	1,212	268	701
712+19.08	71219.08	7.70	0.00	6.00	0.01	0	2	0	1,212	268	699
712+25.00	71225.00	5.92	0.00	6.00	0.02	0	1	0	1,212	268	698
712+50.00	71250.00	25.00	0.00	6.00	0.08	0	6	0	1,212	268	692
712+75.00	71275.00	25.00	0.00	6.00	0.27	0	6	0	1,212	268	686
713+00.00	71300.00	25.00	0.00	6.00	0.12	0	6	0	1,212	268	680
713+18.88	71318.88	18.88	0.00	6.00	0.03	0	4	0	1,212	268	676

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW:
	[(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) -
	((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

*EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS.
EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

9

9

PROJECT NO: 1690-04-62 | HWY: STH 69 | COUNTY: GREEN | EARTHWORK DATA | SHEET 201 | E

DIVISION 17 - STH69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.00	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
729+30.79	72930.79	0.00	0.00	6.00	1.02	0	0	0	0	0	0
729+50.00	72950.00	19.21	0.01	6.00	0.00	0	4	0	0	0	-4
729+75.00	72975.00	25.00	0.80	6.00	0.01	0	6	0	0	0	-10
730+00.00	73000.00	25.00	2.99	6.00	0.00	2	6	0	2	0	-14
730+25.00	73025.00	25.00	6.74	6.00	0.01	5	6	0	7	0	-15
730+50.00	73050.00	25.00	2.26	6.00	0.96	4	6	0	11	0	-17
730+75.00	73075.00	25.00	2.80	6.00	0.11	2	6	0	13	0	-21
731+00.00	73100.00	25.00	2.14	6.00	0.00	2	6	0	15	0	-25
731+25.00	73125.00	25.00	2.28	6.00	0.01	2	6	0	17	0	-29
731+50.00	73150.00	25.00	2.43	6.00	0.00	2	6	0	19	0	-33
731+75.00	73175.00	25.00	0.96	6.00	0.00	2	6	0	21	0	-37
732+00.00	73200.00	25.00	0.00	6.00	0.89	0	6	0	21	0	-43
732+25.00	73225.00	25.00	0.00	6.00	2.55	0	6	2	21	2	-51
732+50.00	73250.00	25.00	0.25	6.00	0.61	0	6	1	21	3	-58
732+75.00	73275.00	25.00	0.00	6.00	2.44	0	6	1	21	4	-65
733+00.00	73300.00	25.00	0.53	6.00	0.00	0	6	1	21	5	-72
733+25.00	73325.00	25.00	0.51	6.00	0.55	0	6	0	21	5	-78
733+50.00	73350.00	25.00	0.18	6.00	2.95	0	6	2	21	7	-86
733+75.00	73375.00	25.00	0.00	6.00	1.79	0	6	2	21	9	-94
734+00.00	73400.00	25.00	4.00	6.00	0.00	2	6	1	23	10	-99
734+25.00	73425.00	25.00	5.56	6.00	0.00	4	6	0	27	10	-101
734+50.00	73450.00	25.00	6.24	6.00	0.00	5	6	0	32	10	-102
734+75.00	73475.00	25.00	5.87	6.00	0.00	6	6	0	38	10	-102
735+00.00	73500.00	25.00	5.81	6.00	0.00	5	6	0	43	10	-103
735+25.00	73525.00	25.00	91.76	6.00	42.71	45	6	20	88	30	-84
735+50.00	73550.00	25.00	94.45	6.00	33.08	86	6	35	174	65	-39
735+75.00	73575.00	25.00	97.84	6.00	23.22	579	6	26	753	91	508
736+00.00	73600.00	25.00	99.50	6.00	18.34	91	6	19	844	110	574
736+25.00	73625.00	25.00	91.26	6.00	17.63	88	6	17	932	127	639
736+50.00	73650.00	25.00	6.20	6.00	0.00	45	6	8	977	135	670
736+75.00	73675.00	25.00	0.00	6.00	0.11	3	6	0	980	135	667
737+00.00	73700.00	25.00	0.00	6.00	0.32	0	6	0	980	135	661
737+25.00	73725.00	25.00	0.00	6.00	0.49	0	6	0	980	135	655
737+44.40	73744.40	19.40	0.00	6.00	0.54	0	4	0	980	135	651
737+50.00	73750.00	5.60	0.00	6.00	0.58	0	1	0	980	135	650
737+52.09	73752.09	2.09	0.00	6.00	0.61	0	0	0	980	135	650
737+64.06	73764.06	11.97	0.00	6.00	0.71	0	3	0	980	135	647
737+75.00	73775.00	10.94	0.00	6.00	0.53	0	2	0	980	135	645
738+00.00	73800.00	25.00	0.00	6.00	0.13	0	6	0	980	135	639
738+03.40	73803.40	3.40	0.01	6.00	0.09	0	1	0	980	135	638
738+25.00	73825.00	21.60	0.37	6.00	0.01	0	5	0	980	135	633
738+50.00	73850.00	25.00	0.56	6.00	0.00	0	6	0	980	135	627
738+54.70	73854.70	4.70	0.56	6.00	0.00	0	1	0	980	135	626
738+75.00	73875.00	20.30	0.44	6.00	0.01	0	5	0	980	135	621
739+00.00	73900.00	25.00	0.00	6.00	2.13	0	6	1	980	136	614
739+25.00	73925.00	25.00	0.00	6.00	8.04	0	6	5	980	141	603
739+50.00	73950.00	25.00	0.00	6.00	8.04	0	6	7	980	148	590
739+58.34	73958.34	8.34	0.00	6.00	4.33	0	2	2	980	150	586

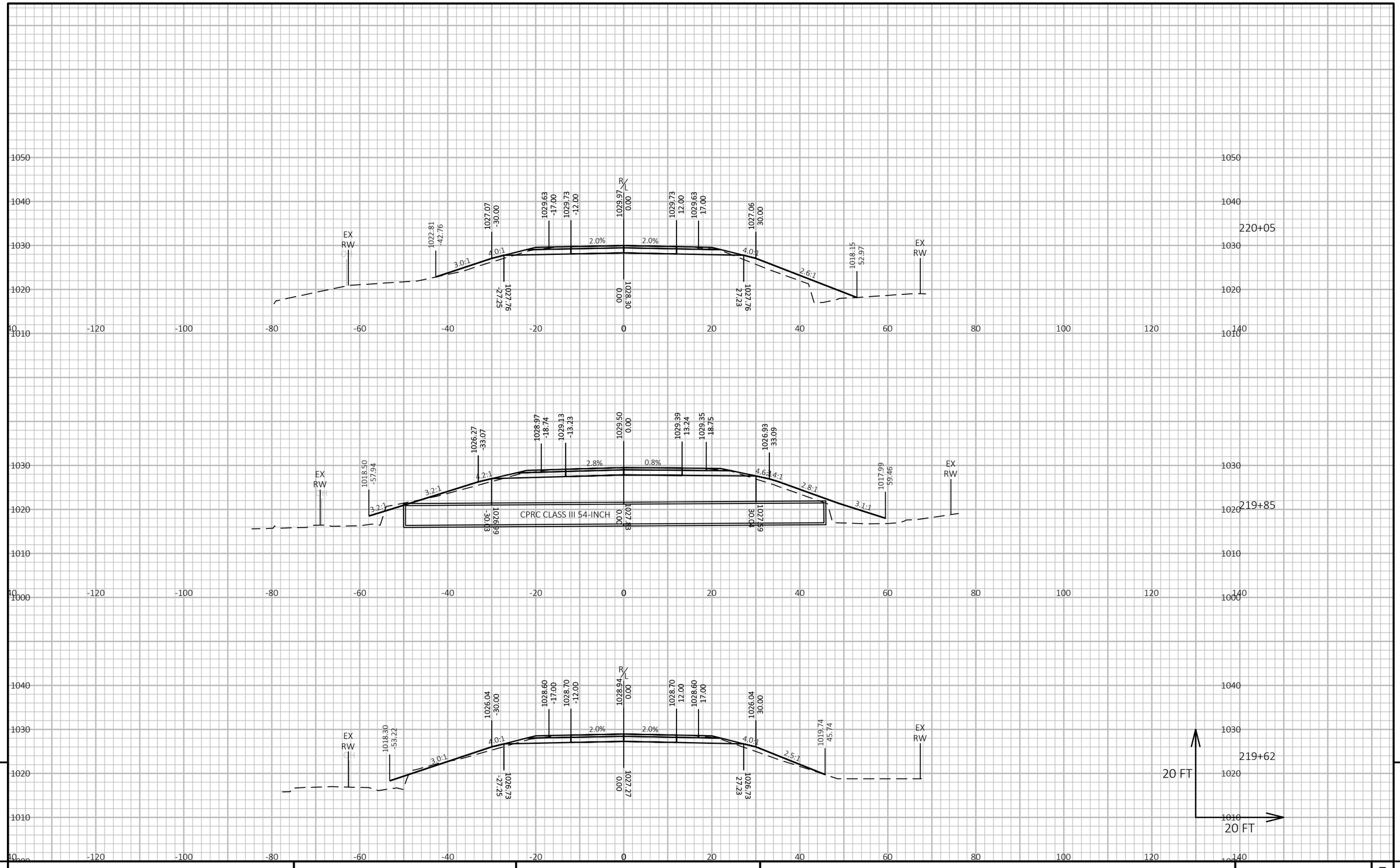
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW:
	[(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) -
	((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

*EARTHWORK SHOWN FOR REFERENCE ONLY AT GUARDRAIL LOCATIONS.
EARTHWORK TO BE PAID UNDER ITEM BARRIER SYSTEM GRADING,
SHAPING, FINISHING.*

9

9

PROJECT NO: 1690-04-62 | HWY: STH 69 | COUNTY: GREEN | EARTHWORK DATA | SHEET 202 | E



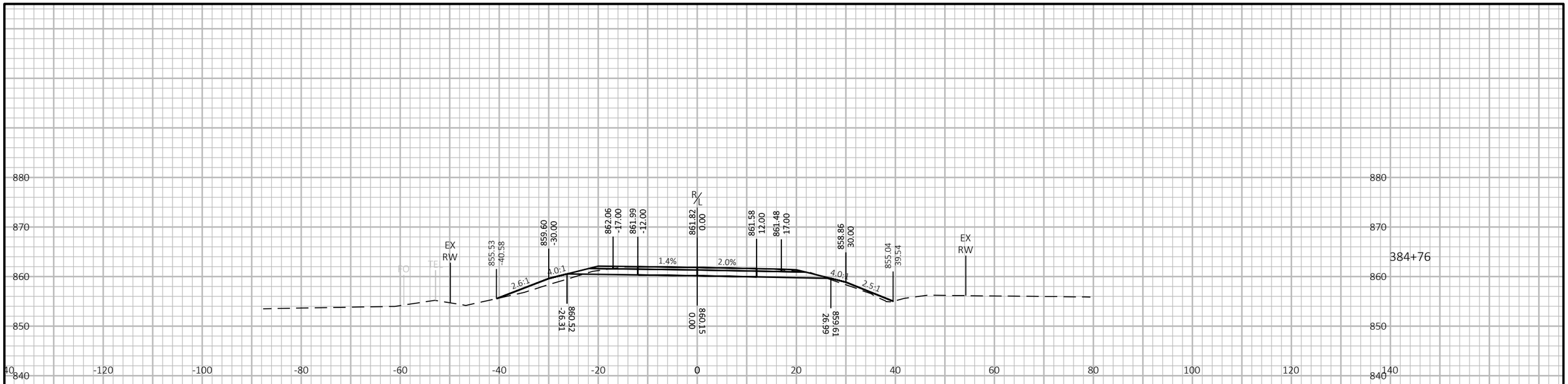
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: CULVERTS	SHEET 203	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_CULVERTS_XS.DWG
LAYOUT NAME - 01

PLOT DATE : 7/21/2025 11:02 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

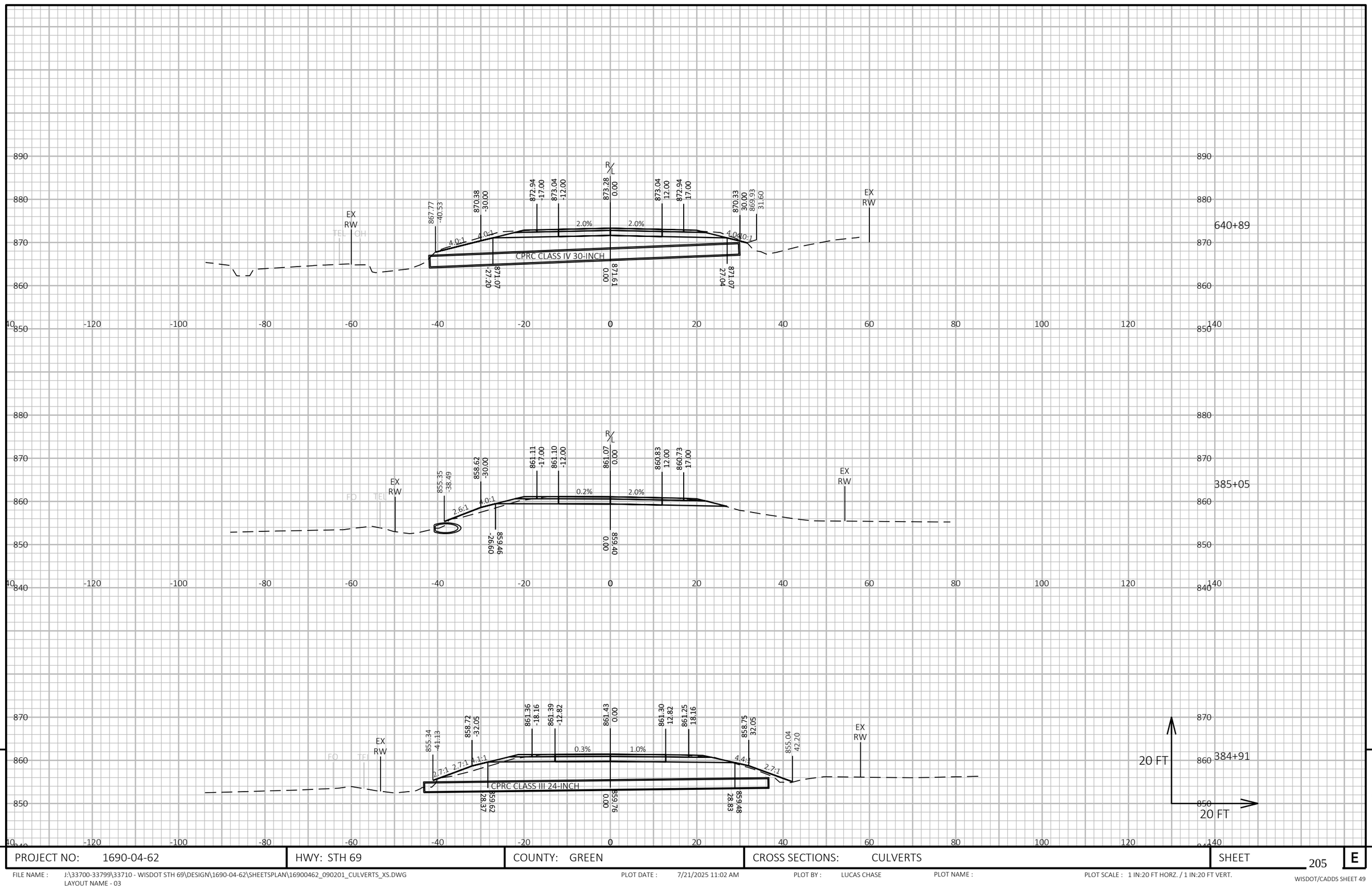


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: CULVERTS	SHEET 204 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_CULVERTS_XS.DWG
LAYOUT NAME - 02

PLOT DATE : 7/21/2025 11:02 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

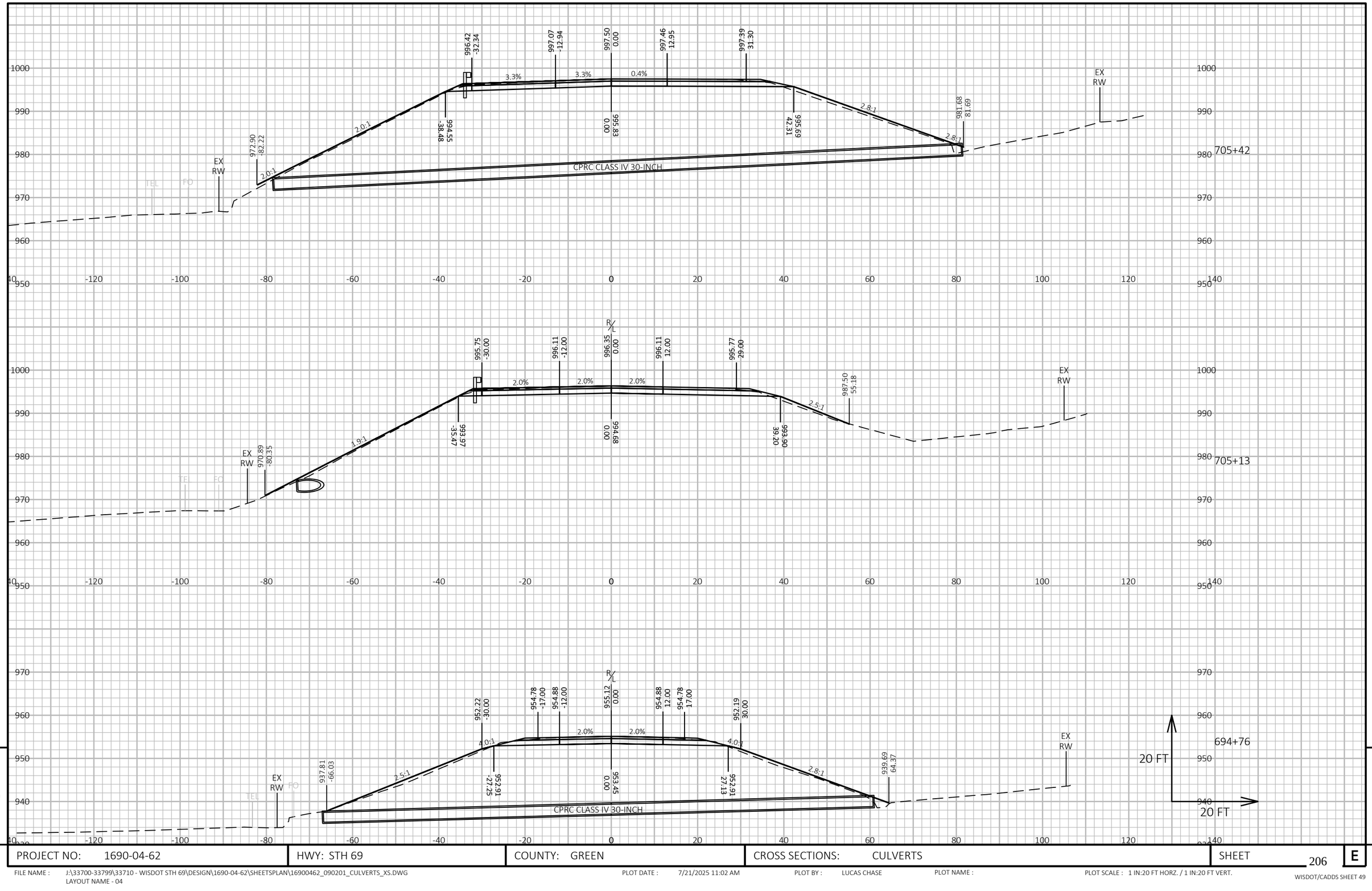
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: CULVERTS	SHEET 205	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_CULVERTS_XS.DWG
LAYOUT NAME - 03

PLOT DATE : 7/21/2025 11:02 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

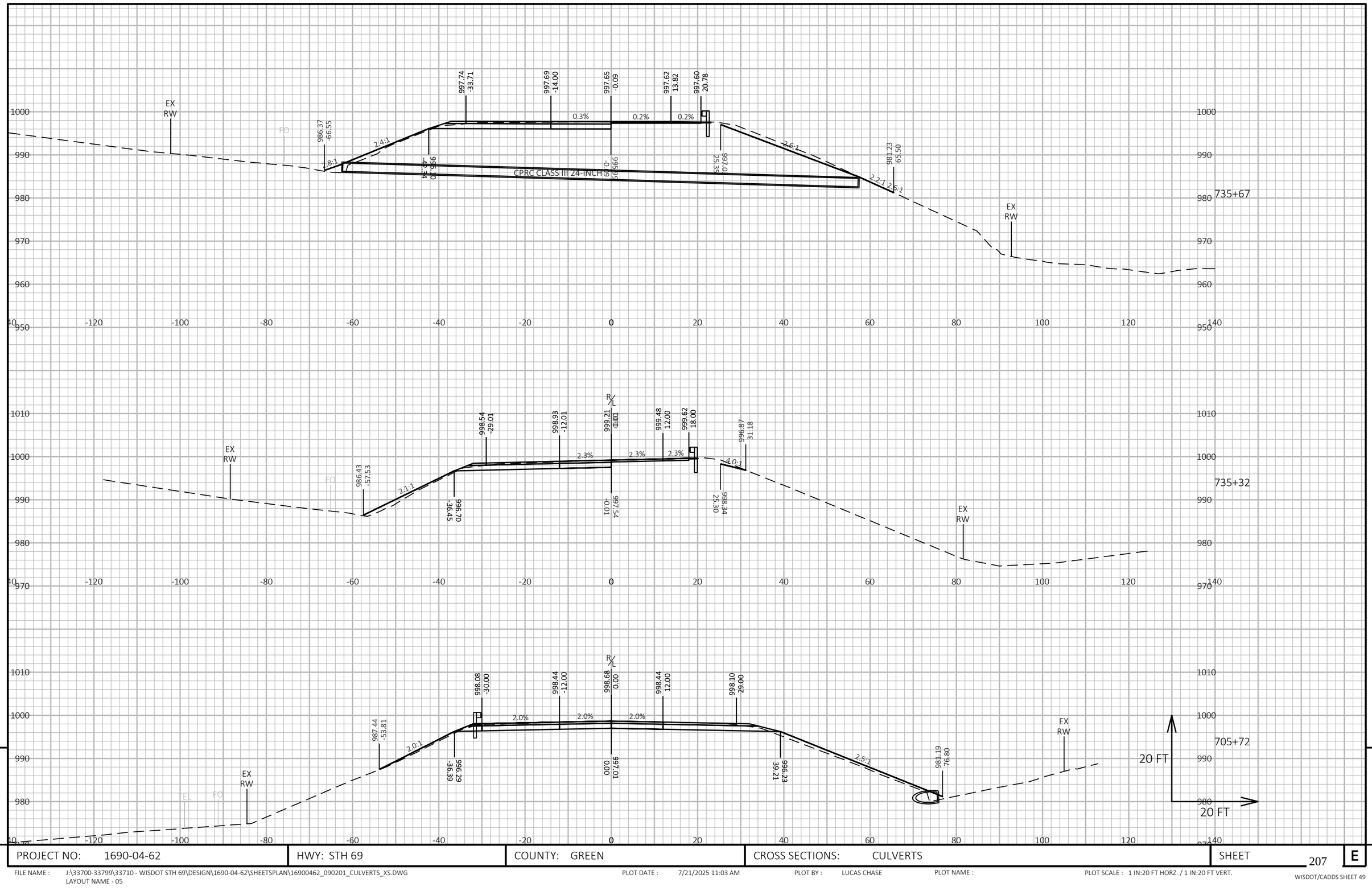


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: CULVERTS	SHEET 206	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_CULVERTS_XS.DWG
LAYOUT NAME - 04

PLOT DATE : 7/21/2025 11:02 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

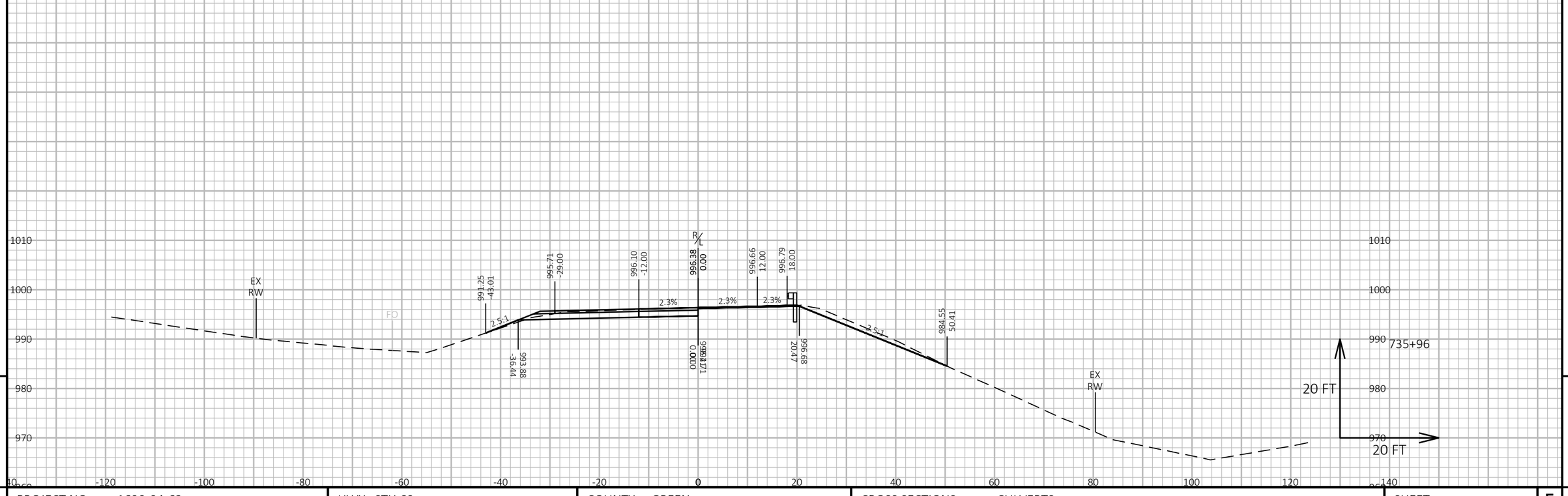


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: CULVERTS	SHEET 207	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_CULVERTS_XS.DWG
LAYOUT NAME - 05

PLOT DATE : 7/21/2025 11:03 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



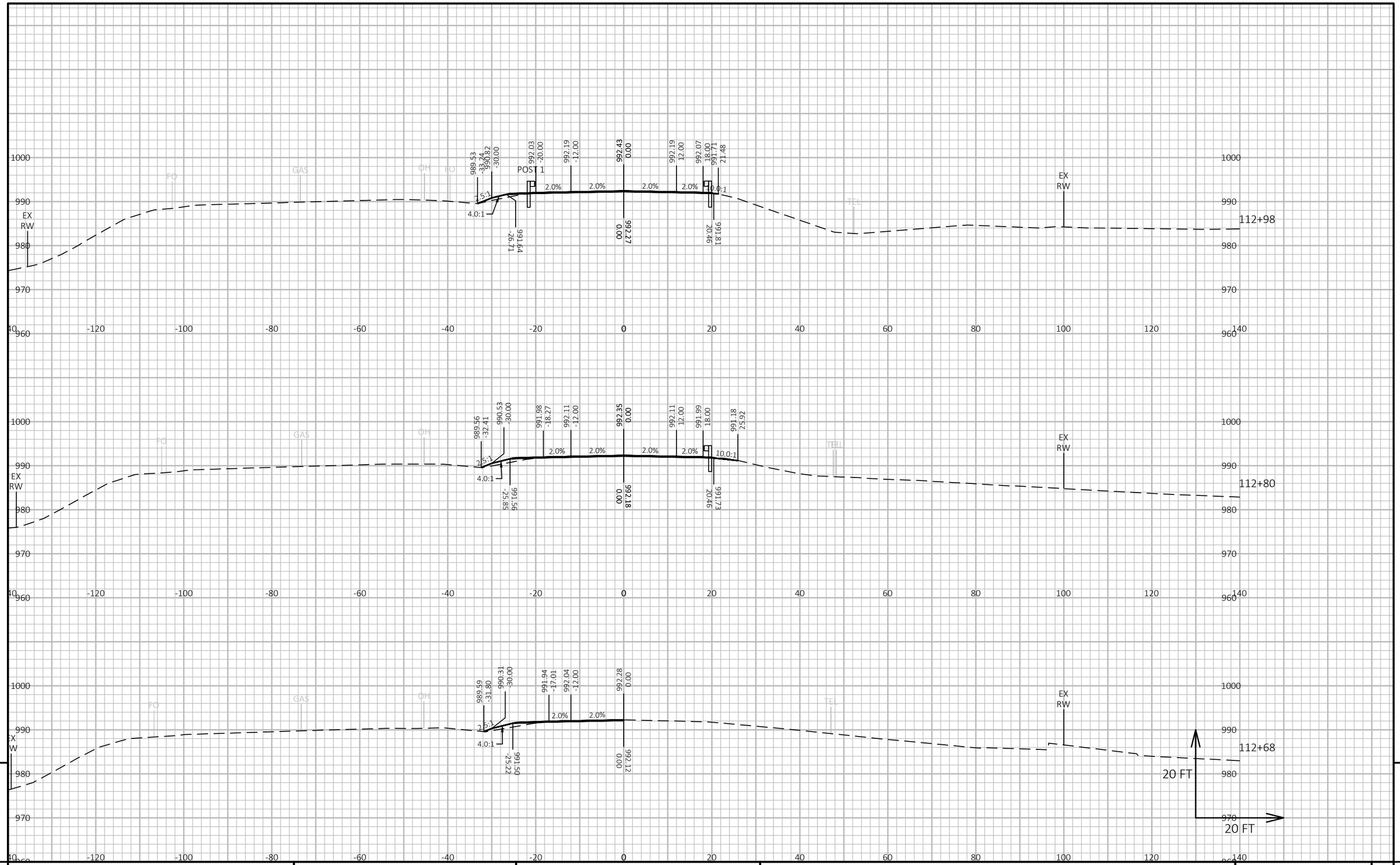
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: CULVERTS	SHEET 208	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_CULVERTS_XS.DWG
LAYOUT NAME - 06

PLOT DATE : 7/21/2025 11:03 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

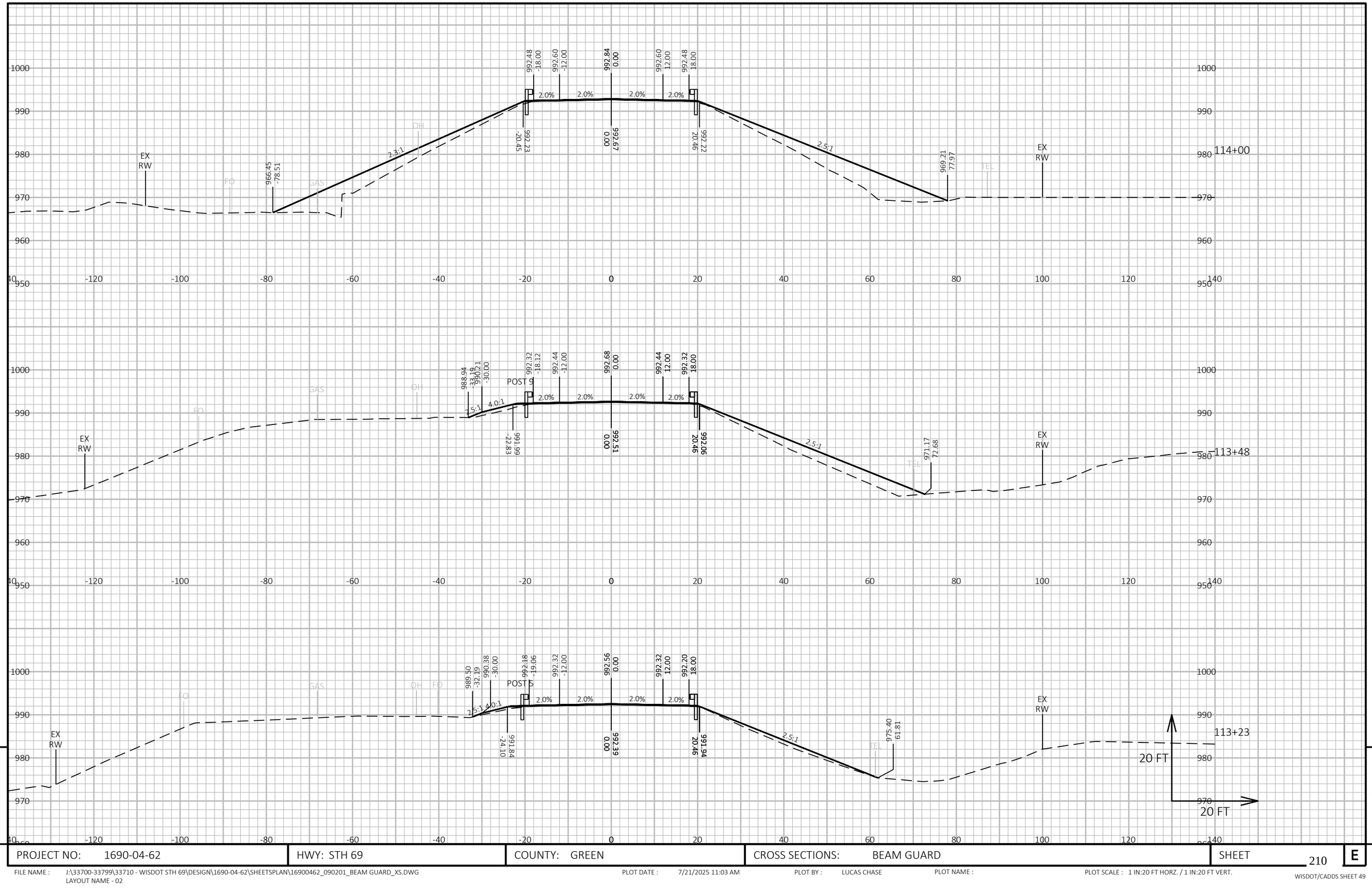
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 209	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 01

PLOT DATE : 7/21/2025 11:03 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

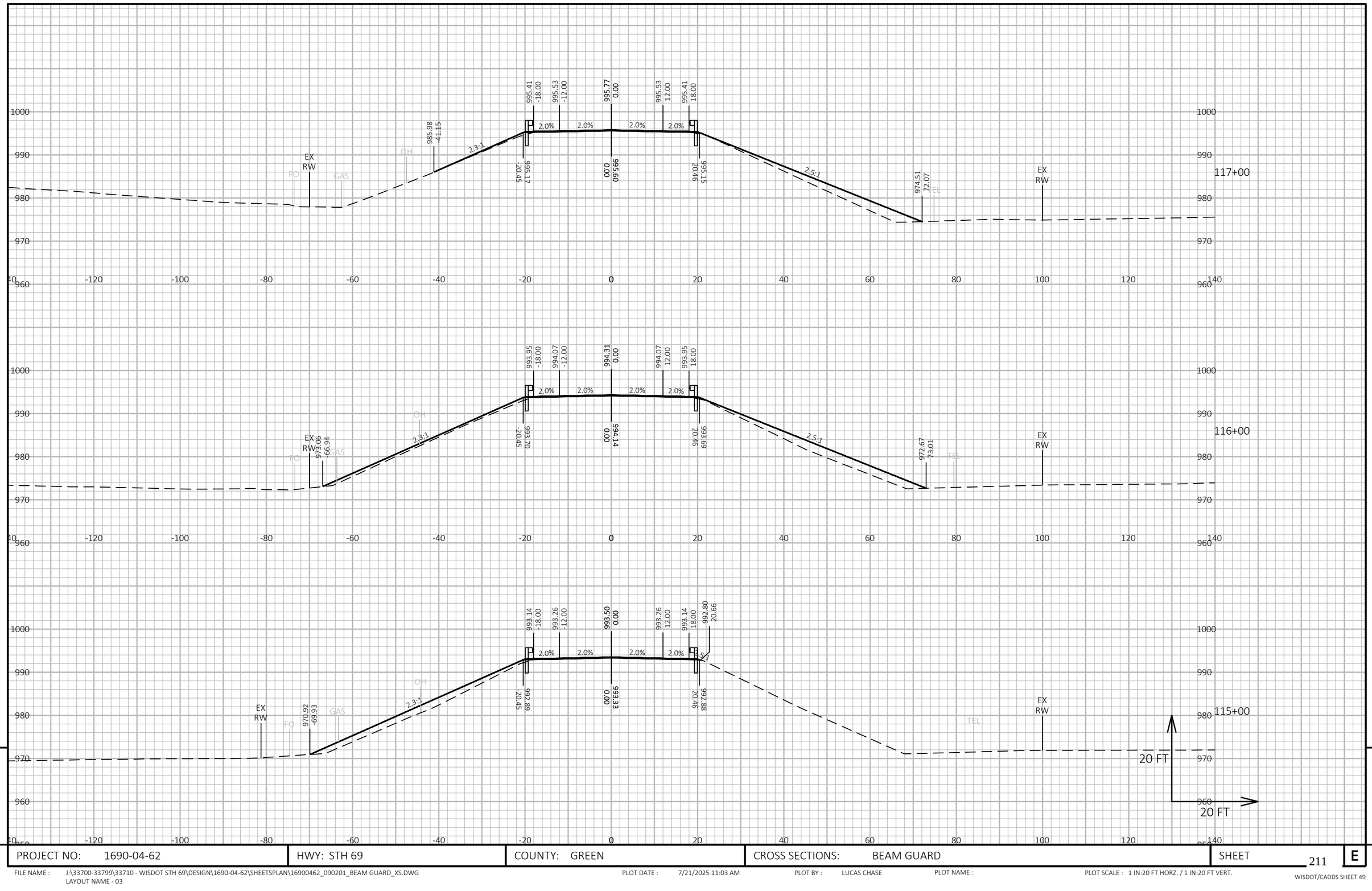
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 210	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 02

PLOT DATE : 7/21/2025 11:03 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

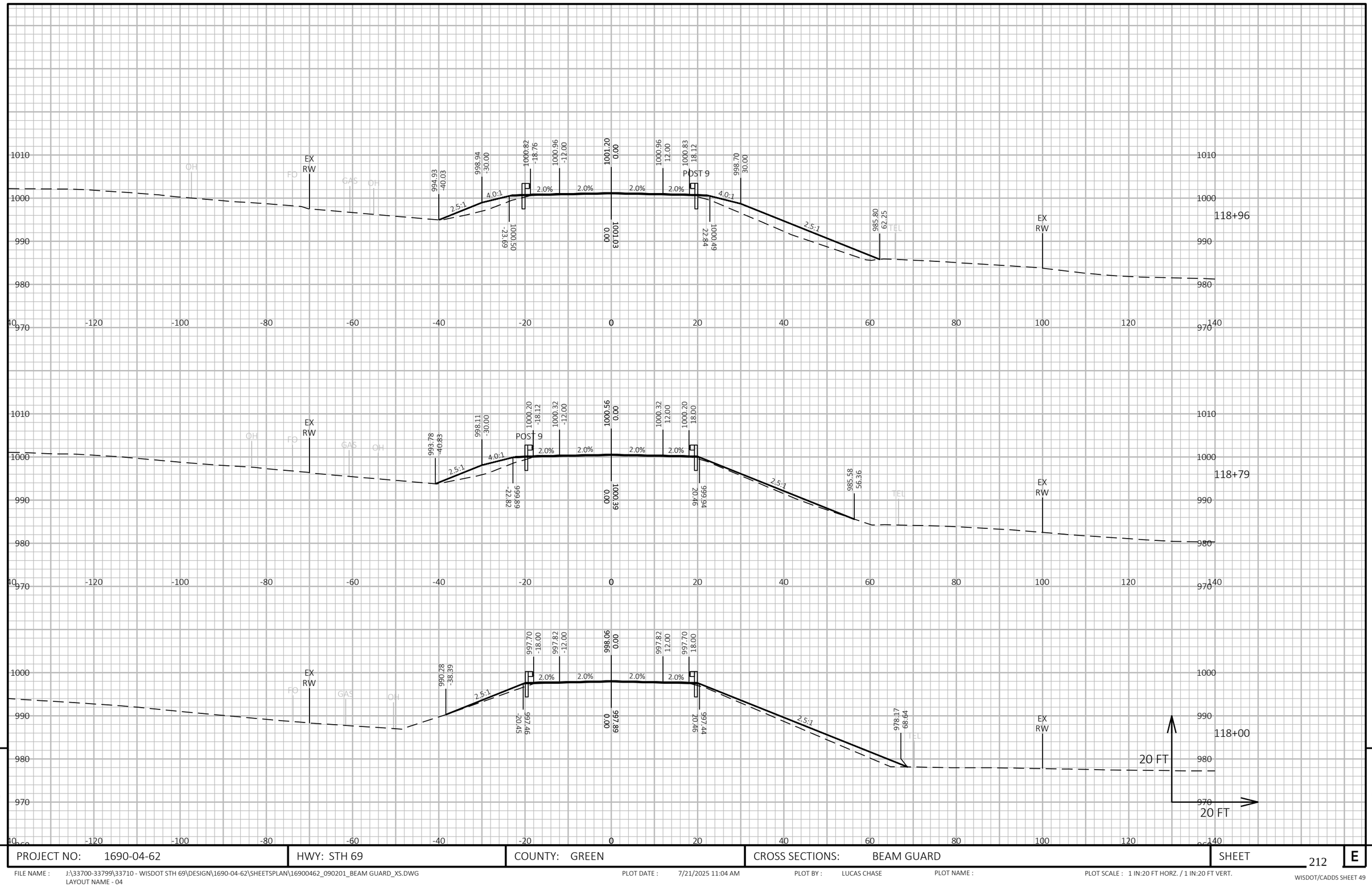
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 211	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 03

PLOT DATE : 7/21/2025 11:03 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



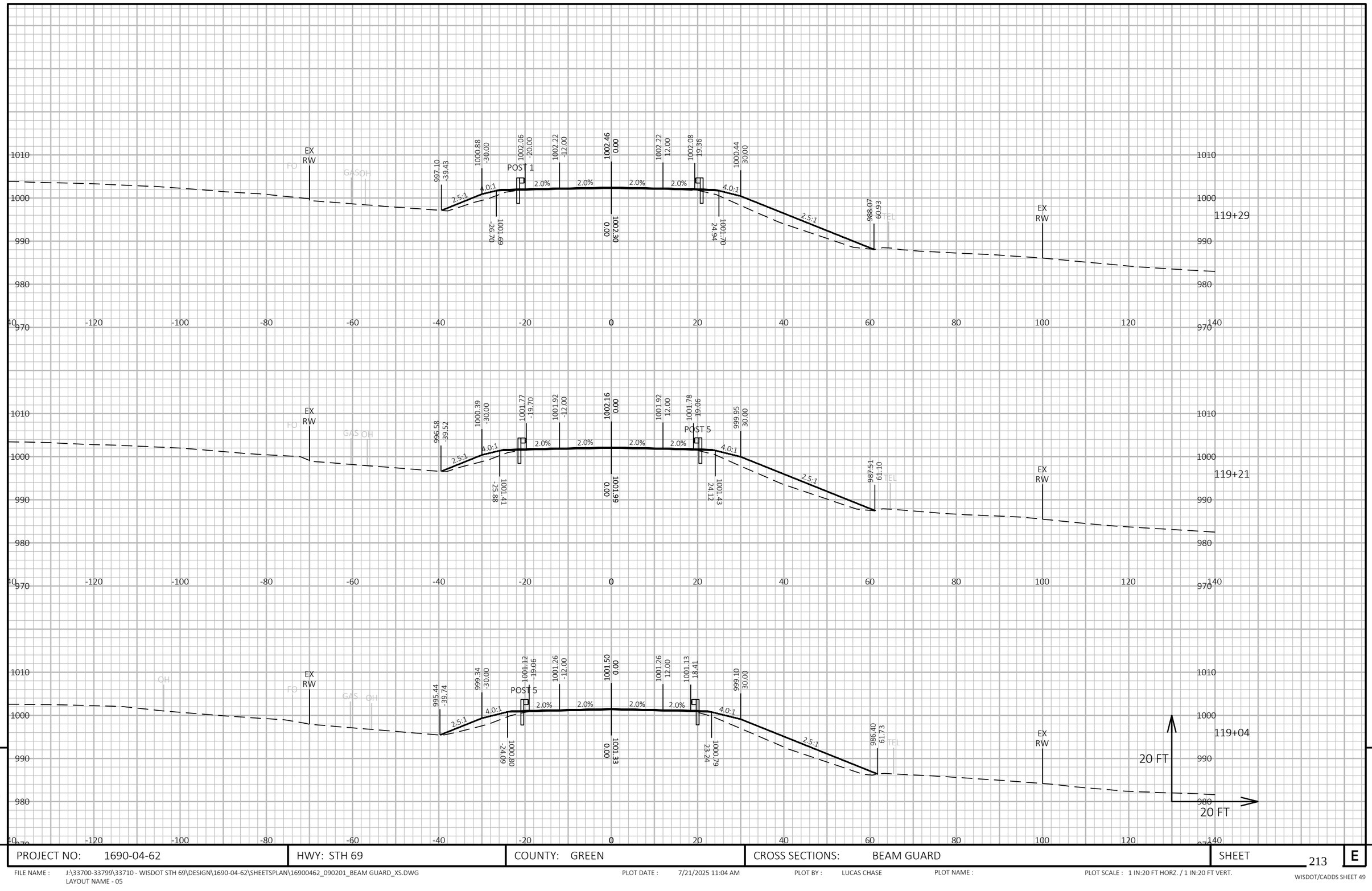
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 212	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 04

PLOT DATE : 7/21/2025 11:04 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



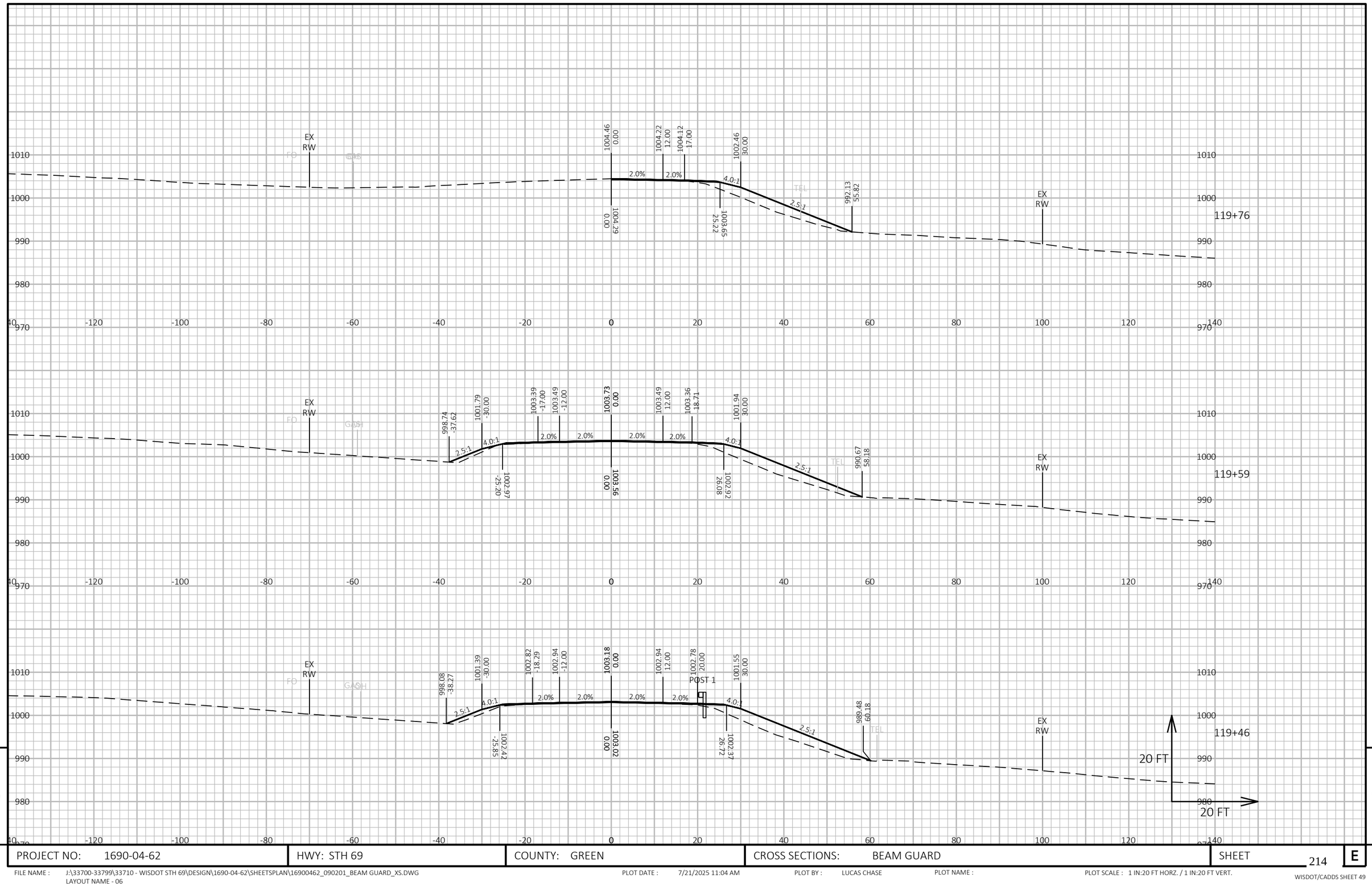
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 213	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 05

PLOT DATE : 7/21/2025 11:04 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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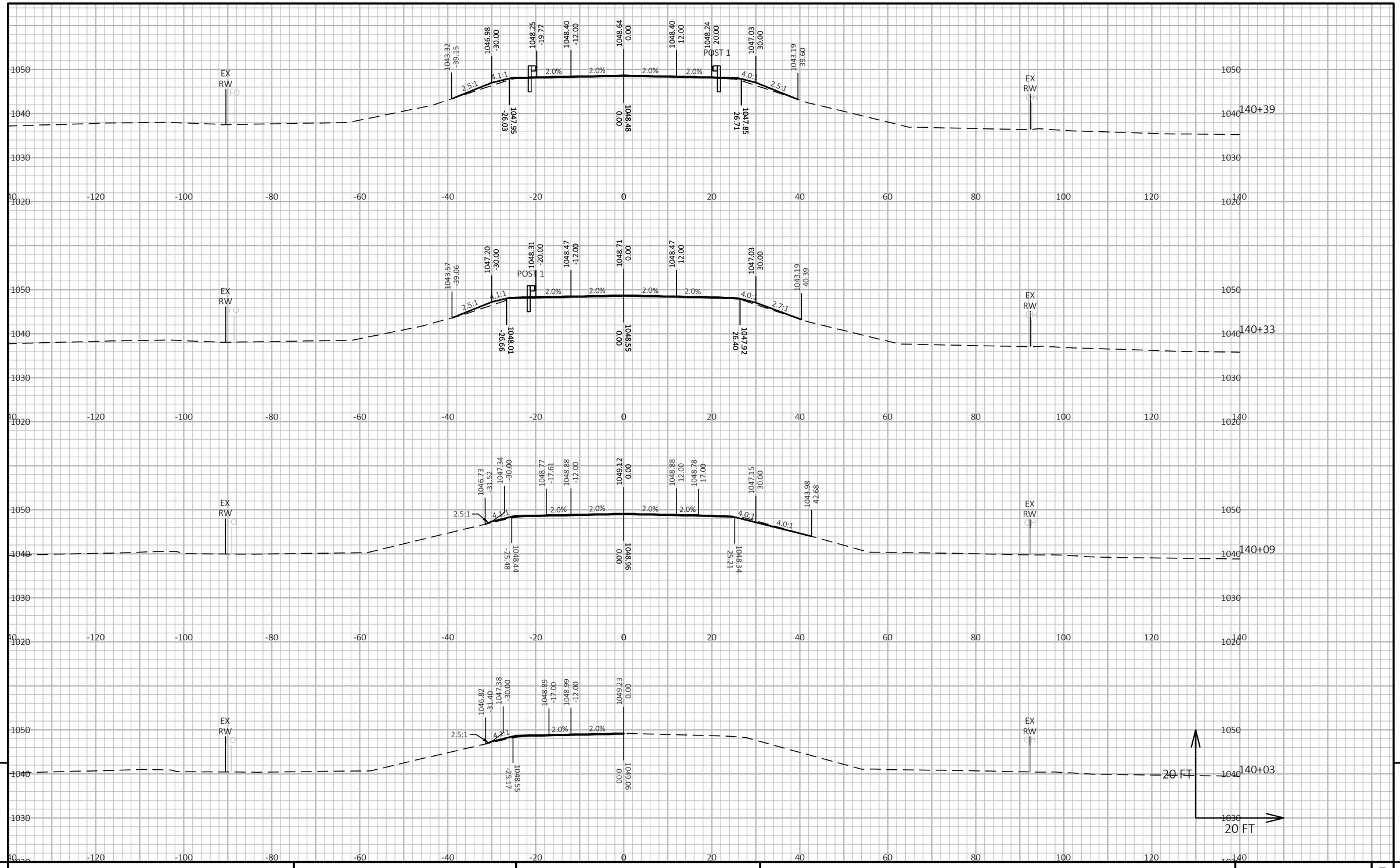
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 214	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 06

PLOT DATE : 7/21/2025 11:04 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



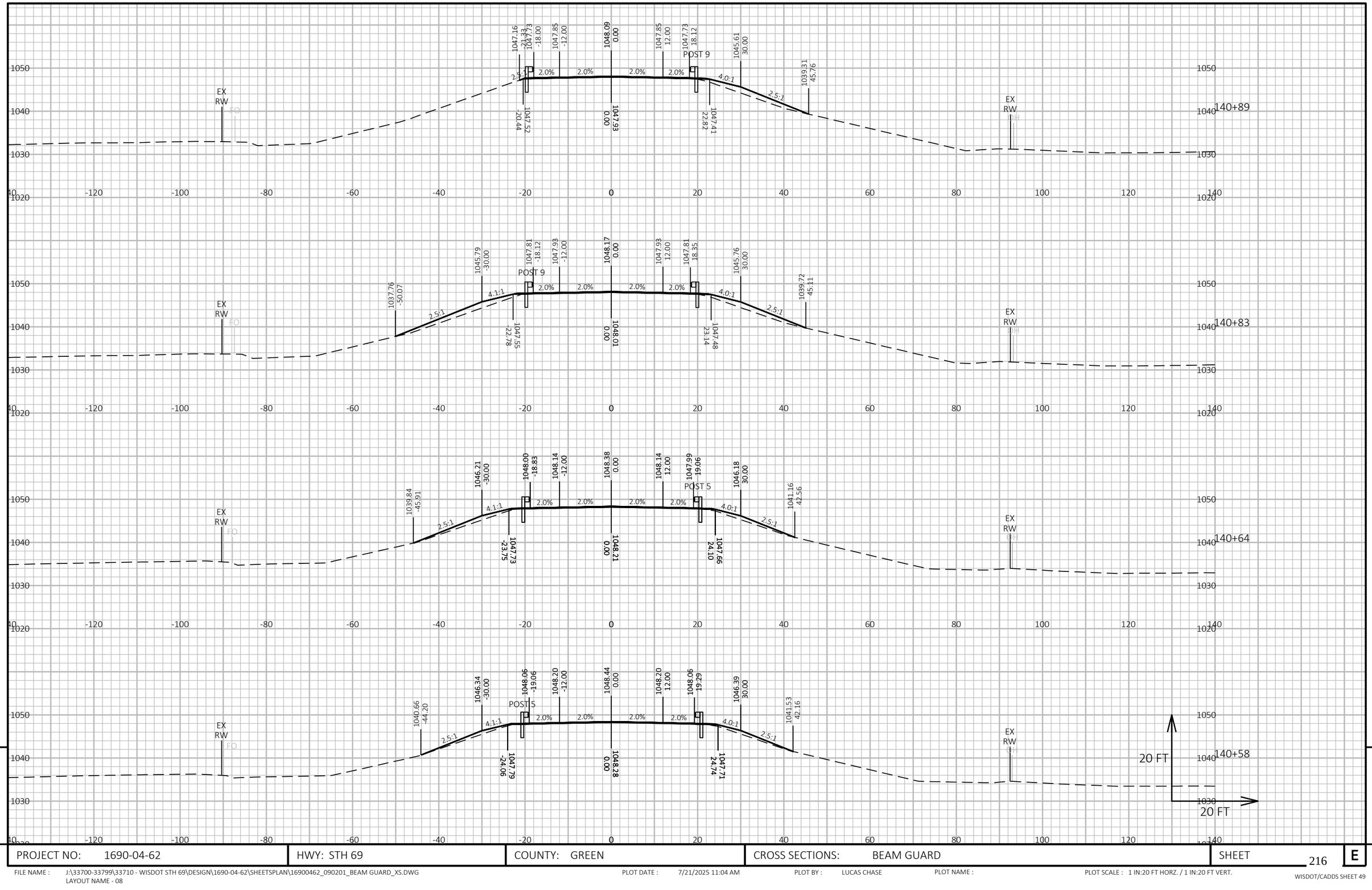
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 215	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 07

PLOT DATE : 7/21/2025 11:04 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



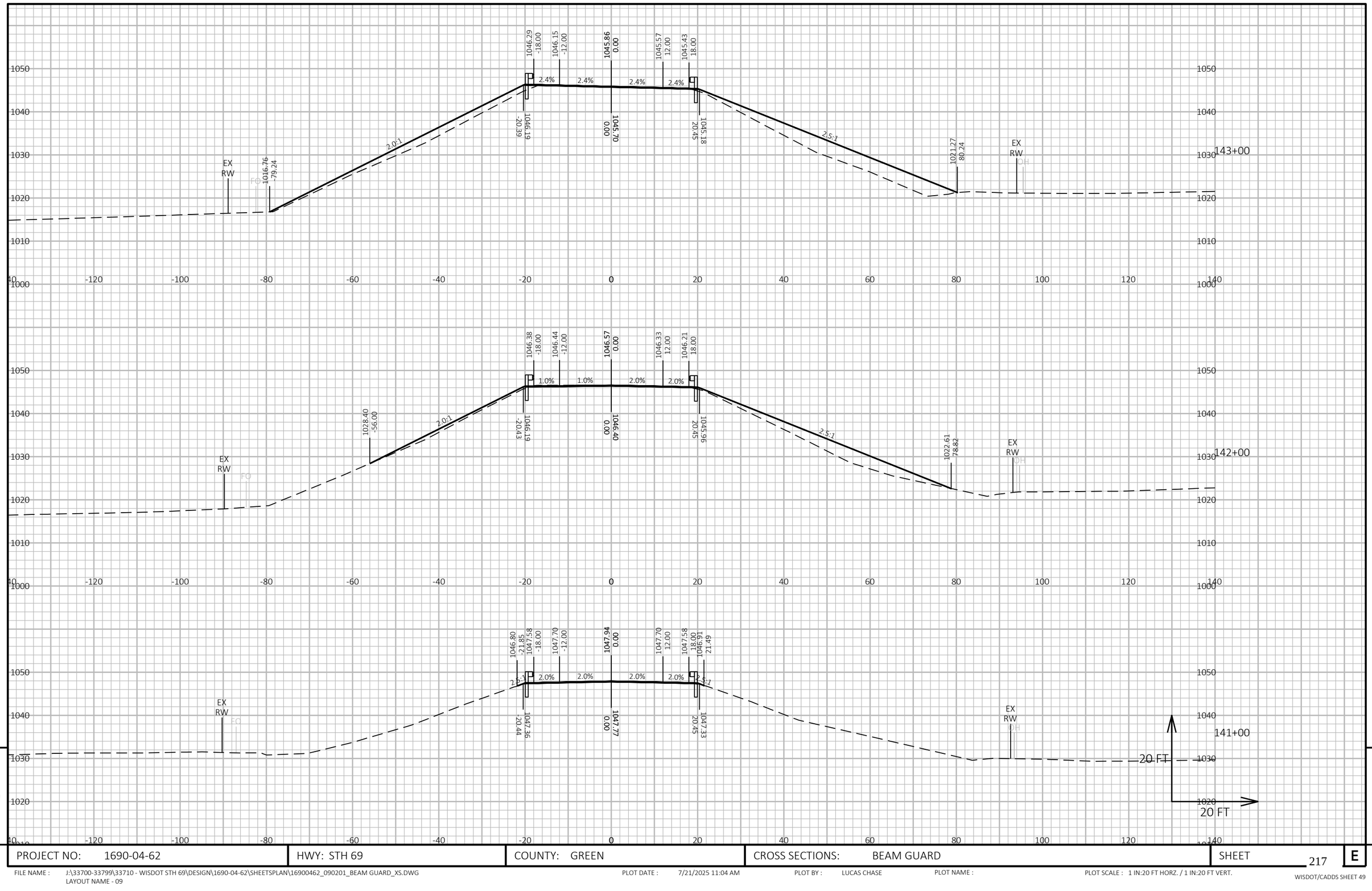
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 216	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 08

PLOT DATE : 7/21/2025 11:04 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

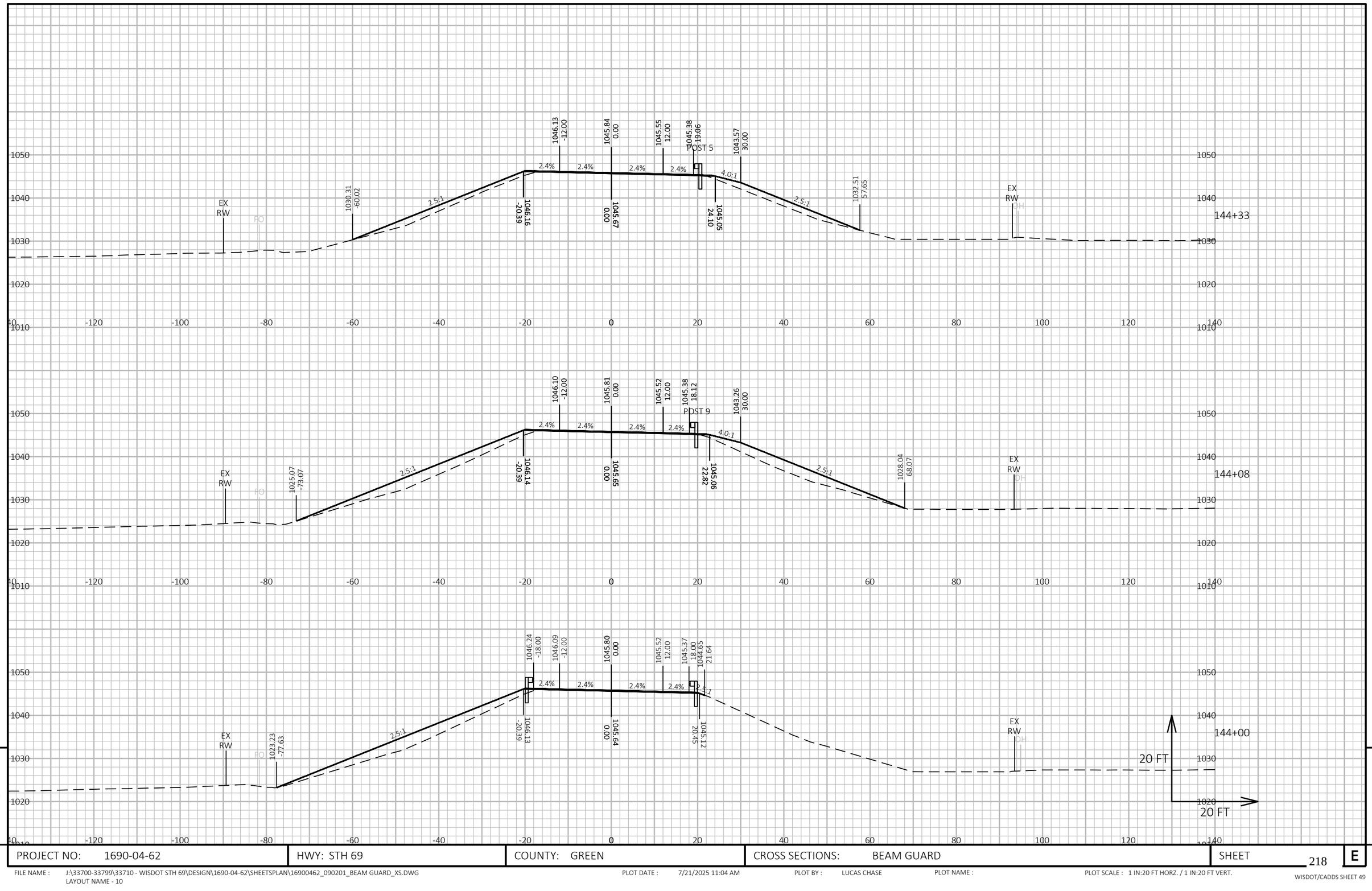


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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 217	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 09
PLOT DATE : 7/21/2025 11:04 AM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



9

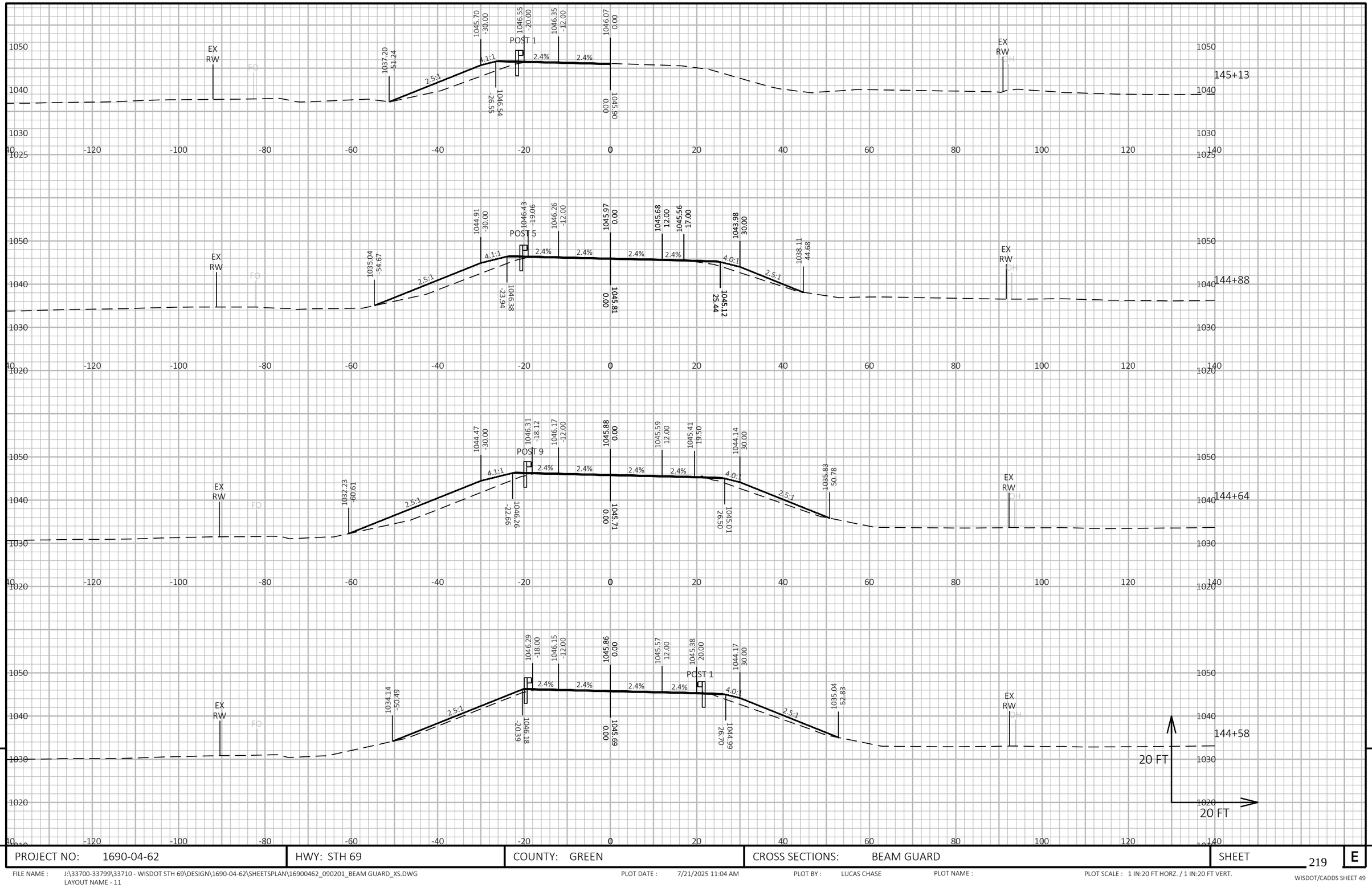
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 218	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 10

PLOT DATE : 7/21/2025 11:04 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

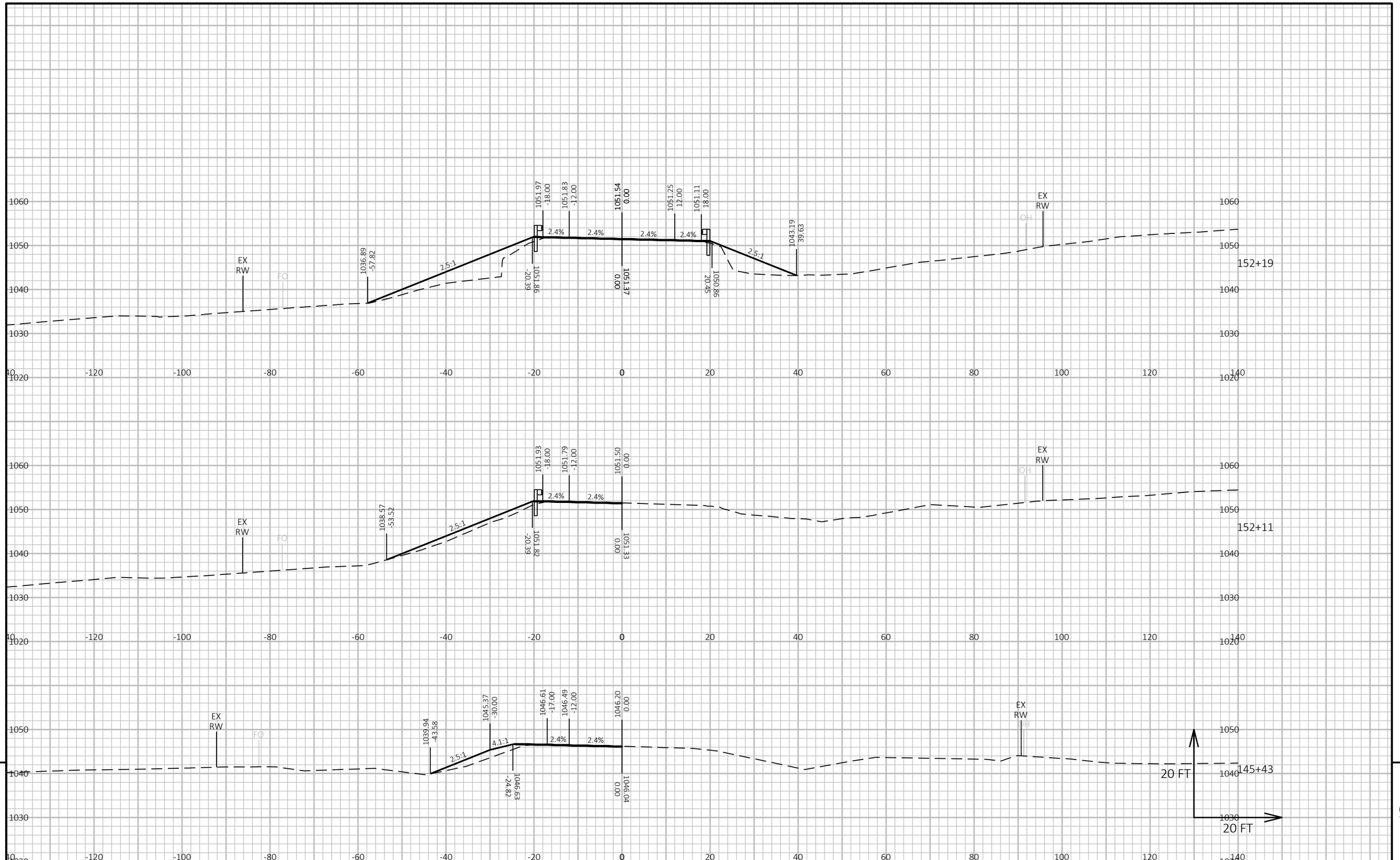
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 219	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 11

PLOT DATE : 7/21/2025 11:04 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 220	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 12

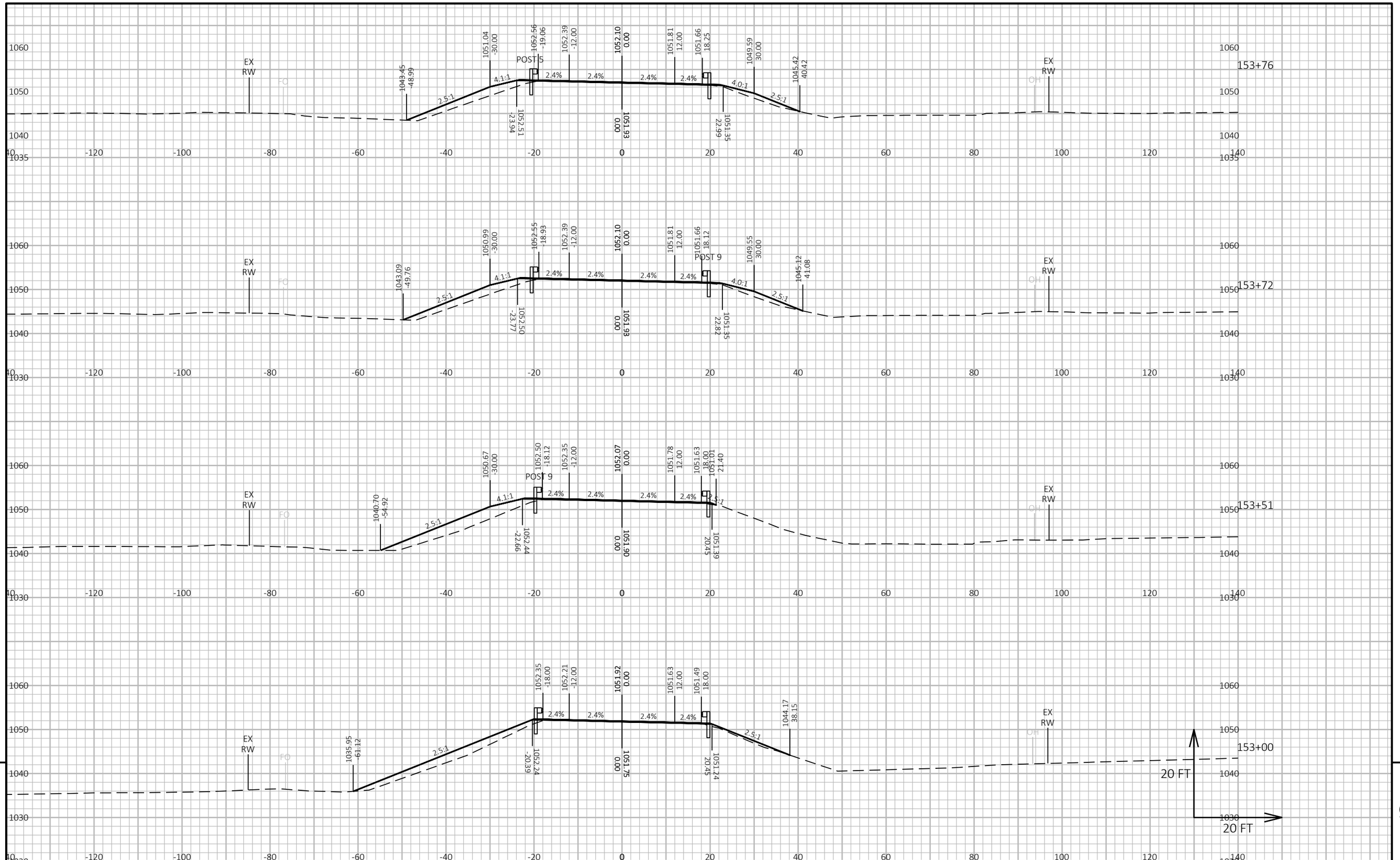
PLOT DATE : 7/21/2025 11:04 AM

PLOT BY : LUCAS CHASE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

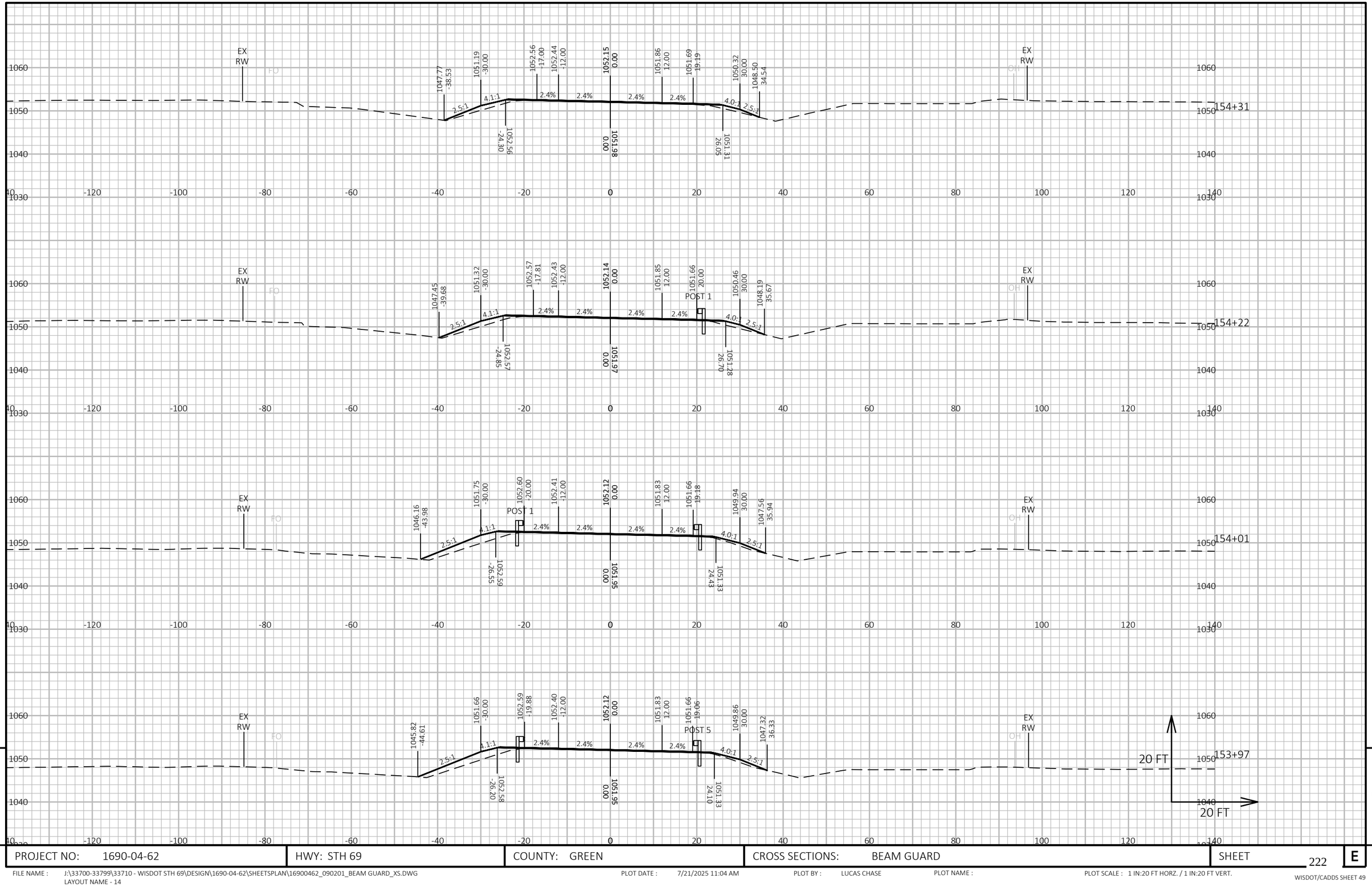
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 221	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 13

PLOT DATE : 7/21/2025 11:04 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



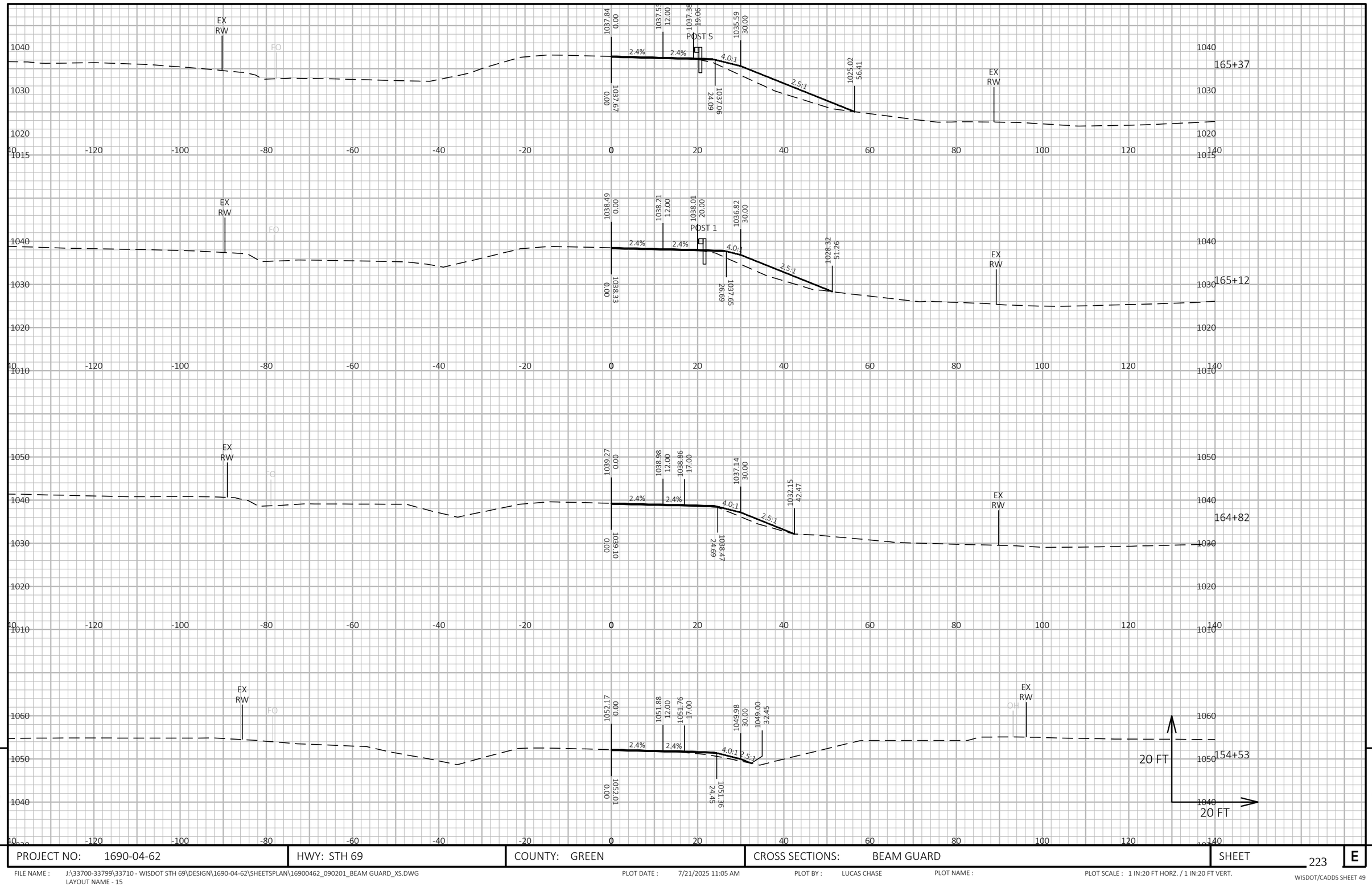
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 222	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 14

PLOT DATE : 7/21/2025 11:04 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

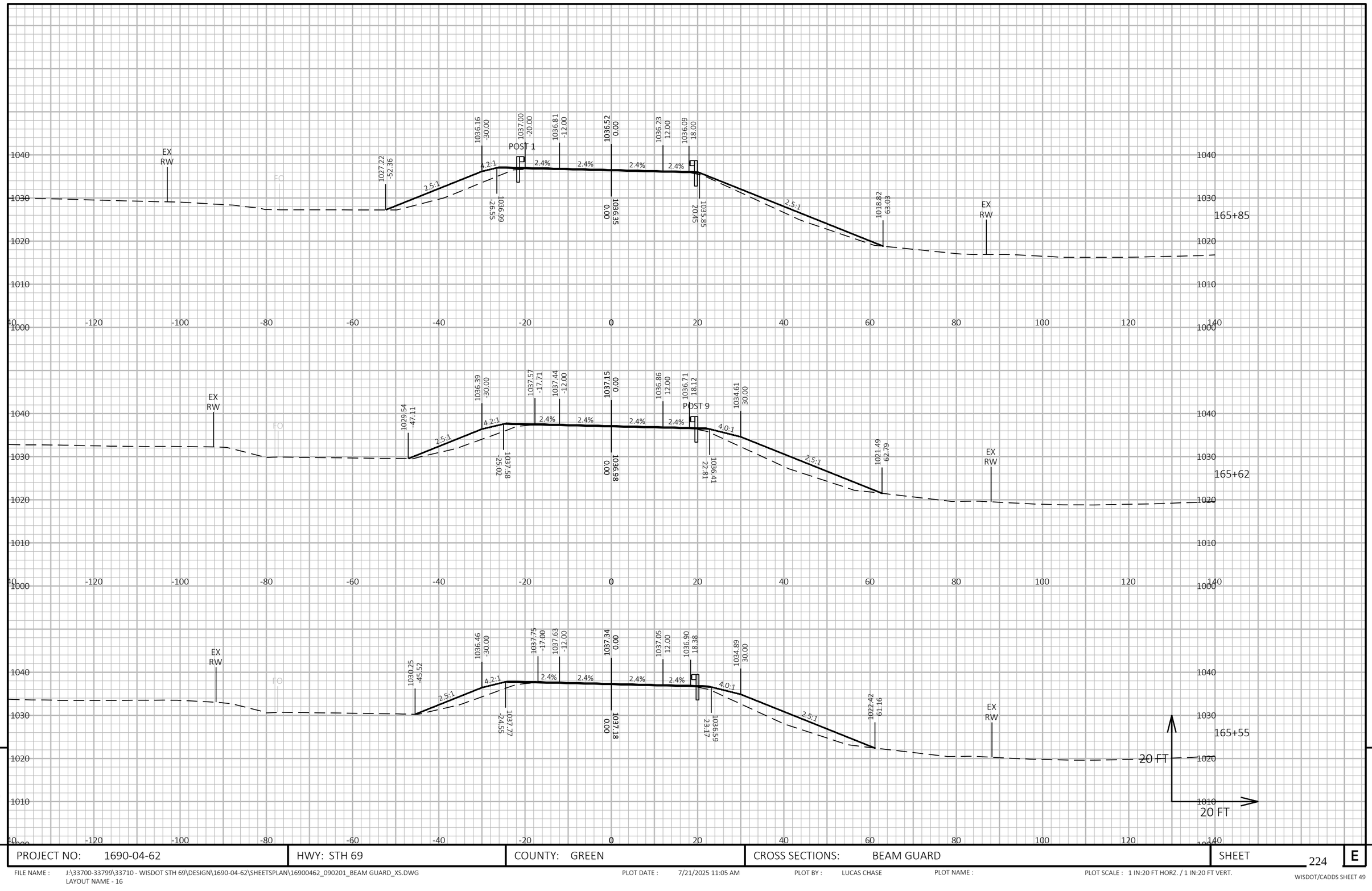


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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 223	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 15
PLOT DATE : 7/21/2025 11:05 AM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



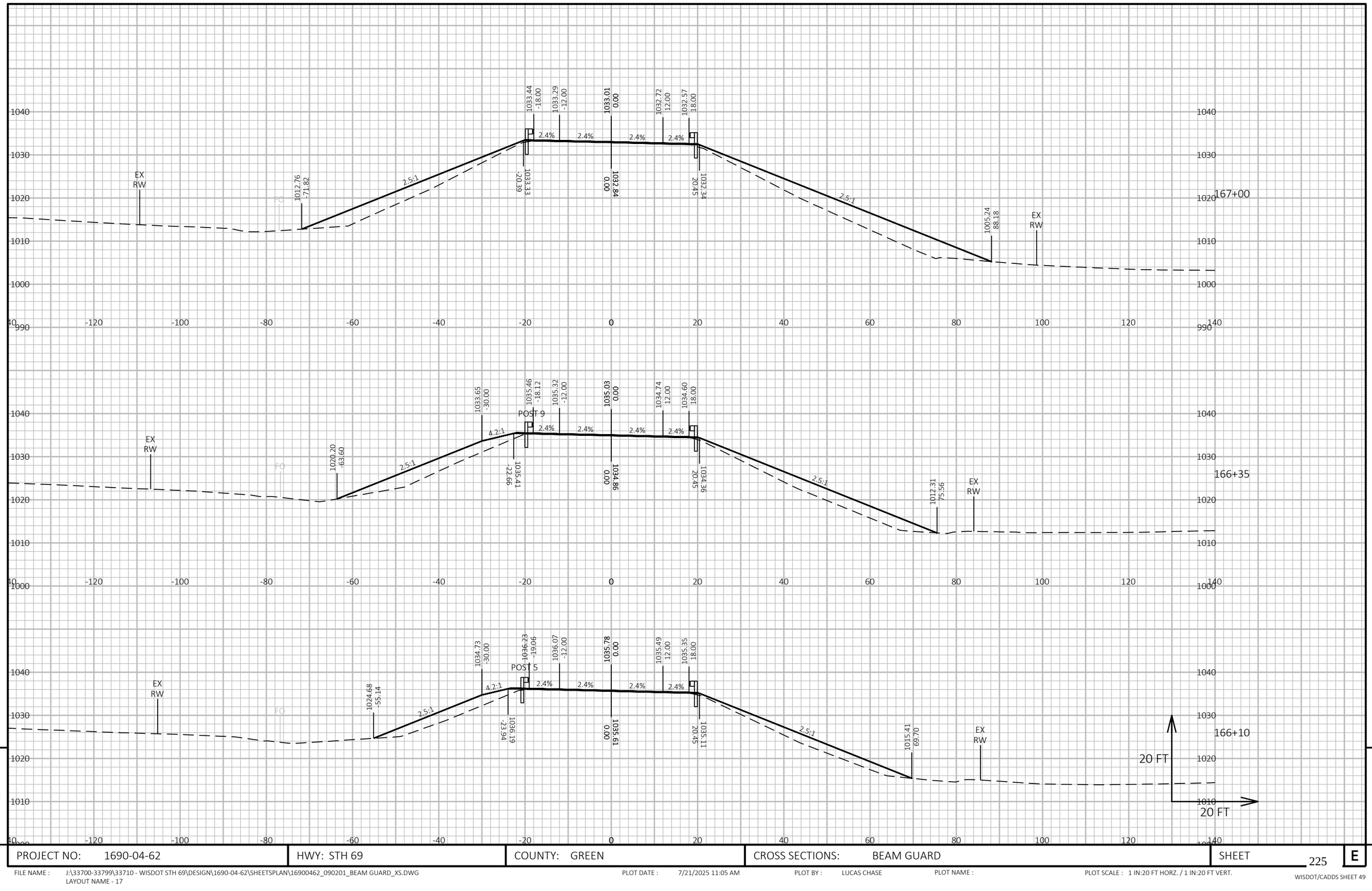
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 224	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 16

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

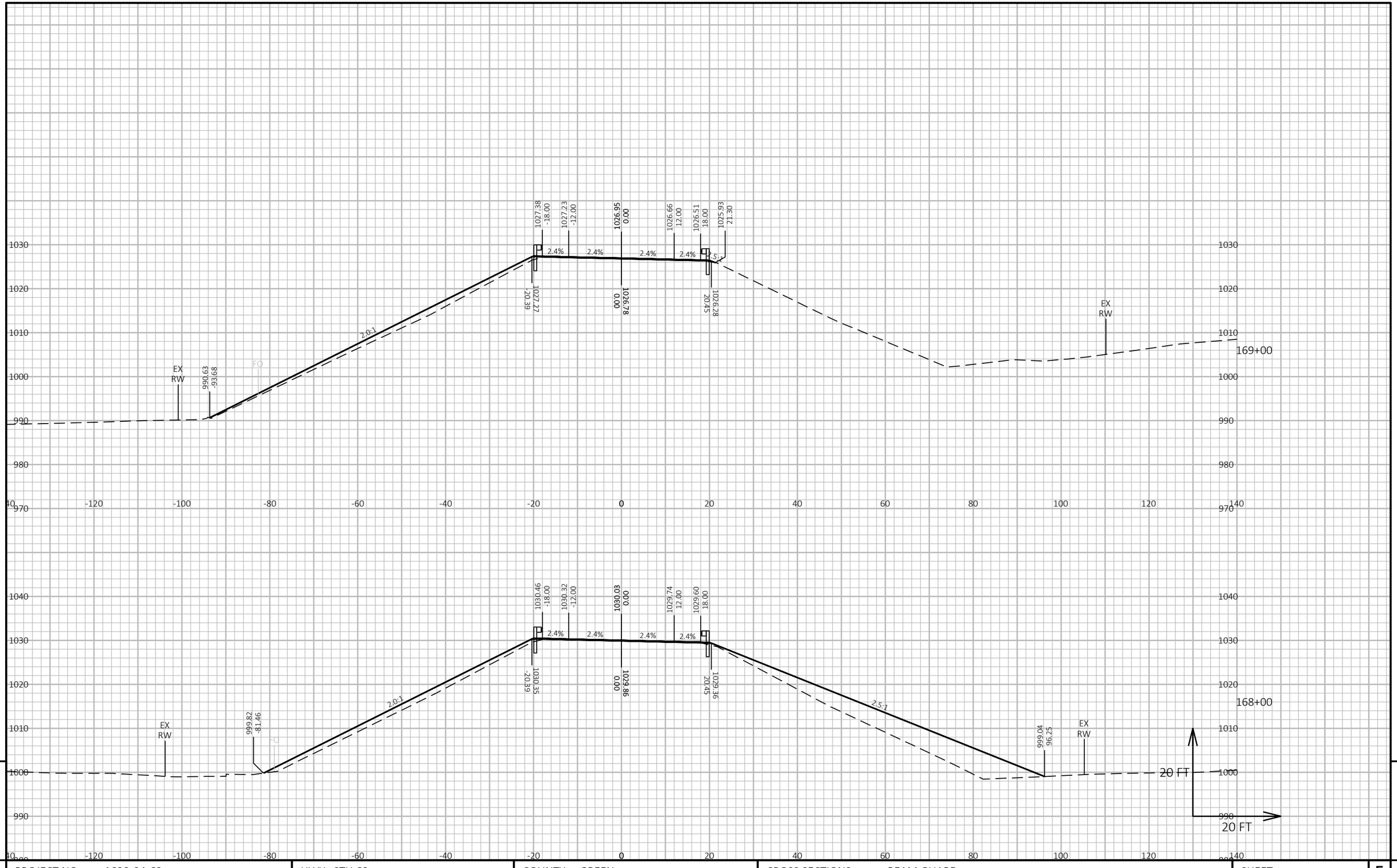


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 225	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 17

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



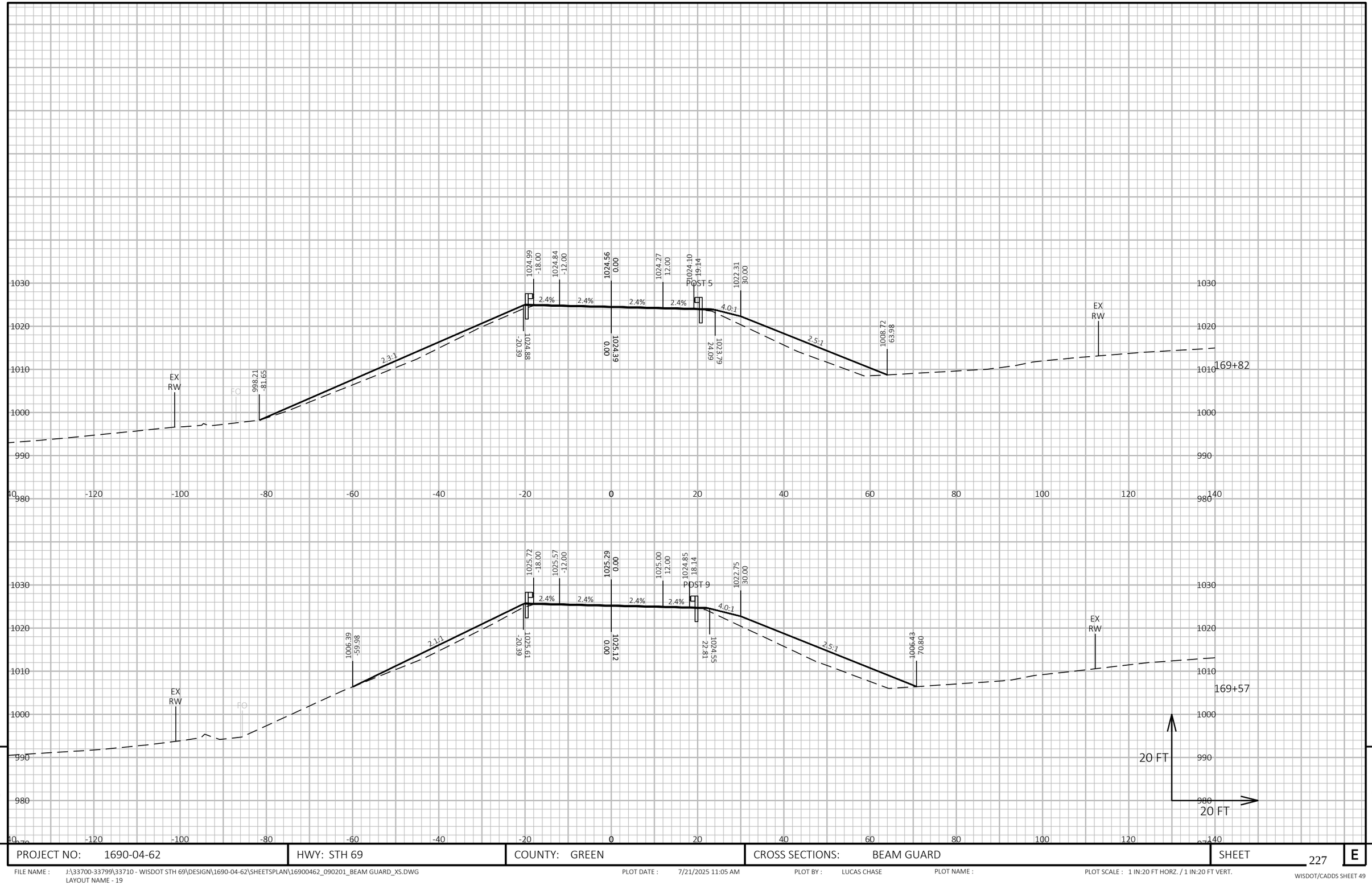
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 226	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 18

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

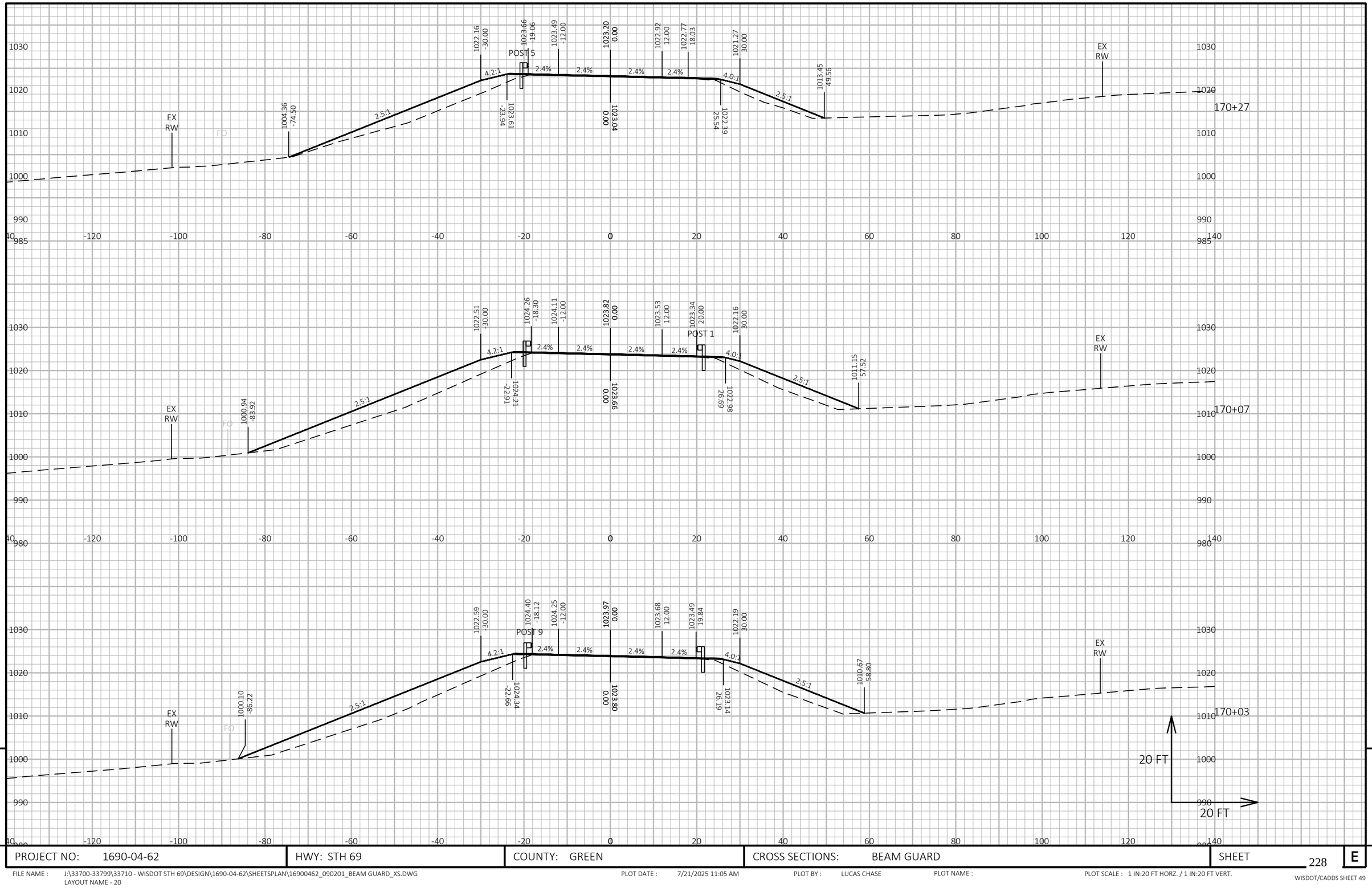
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 227	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 19

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



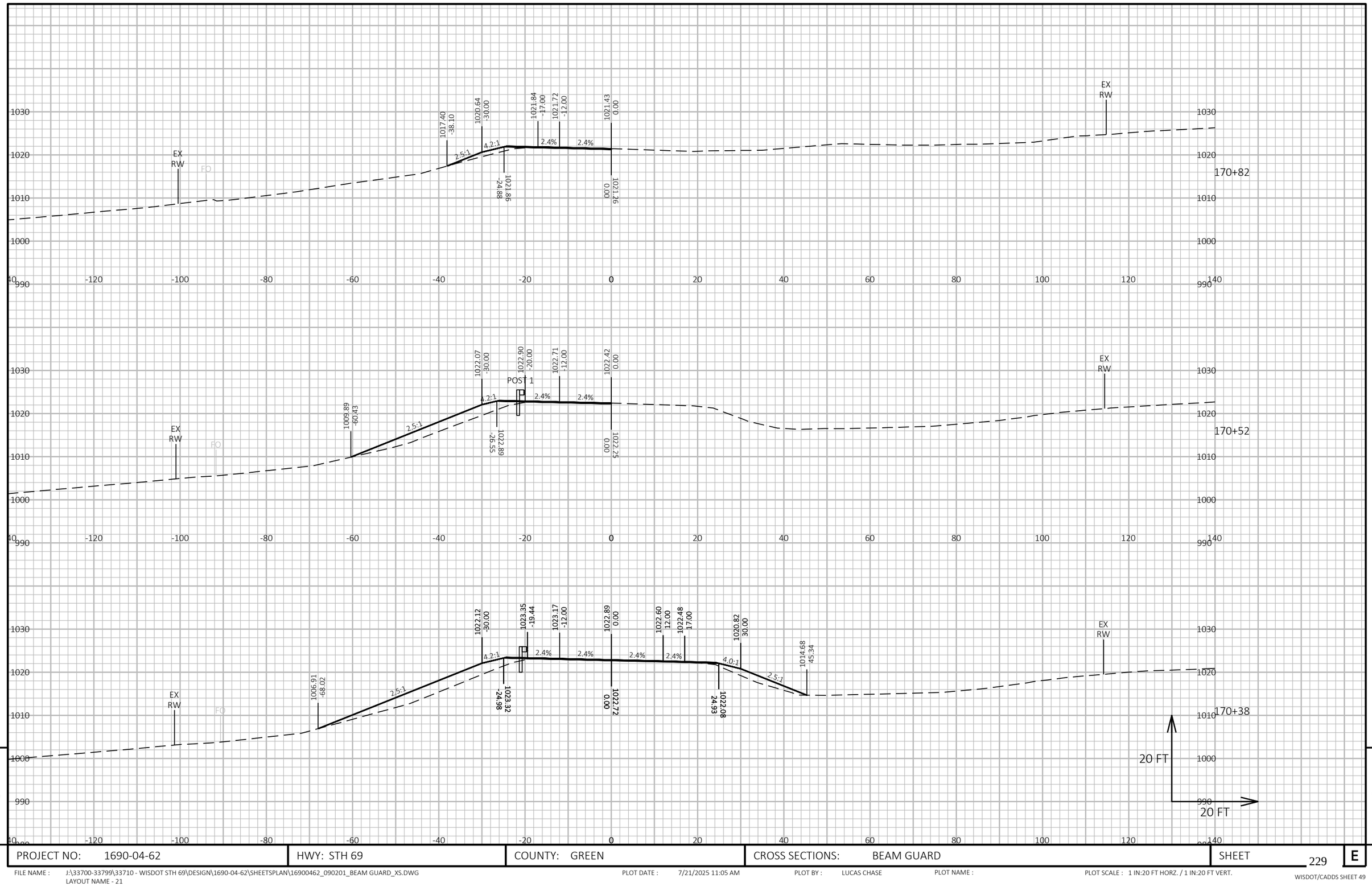
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 228	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 20

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



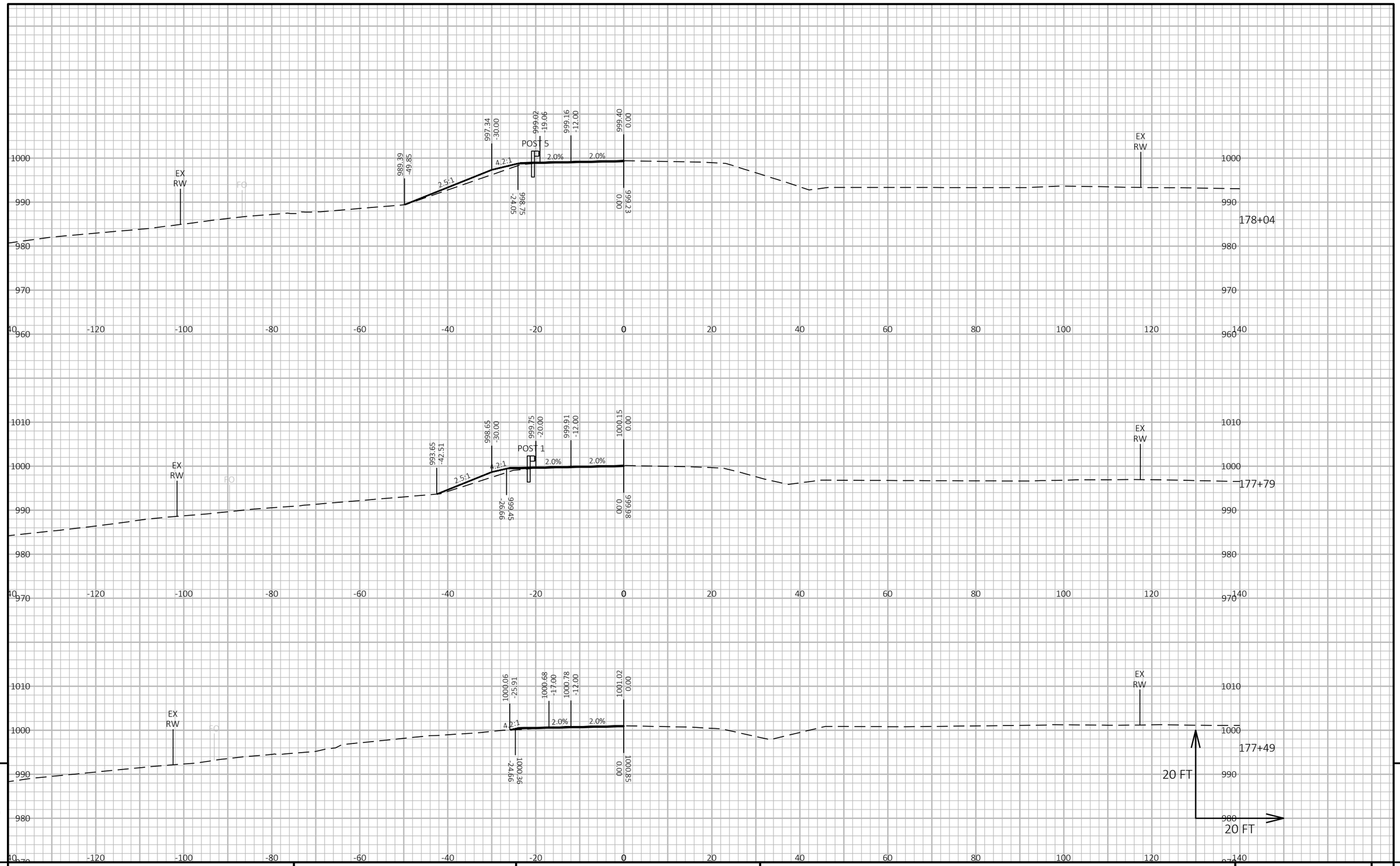
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 229	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 21

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

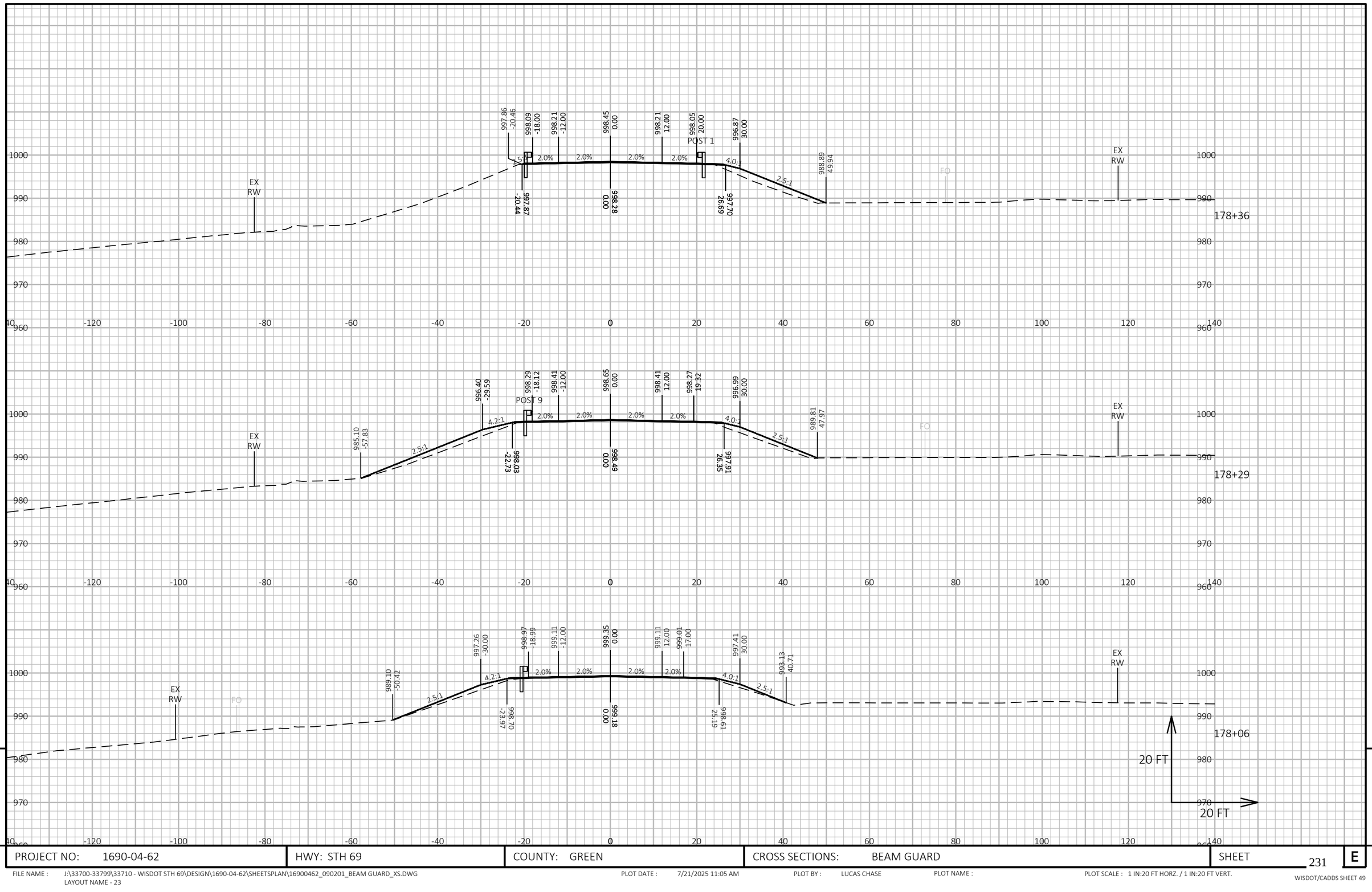
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 230	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 22

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

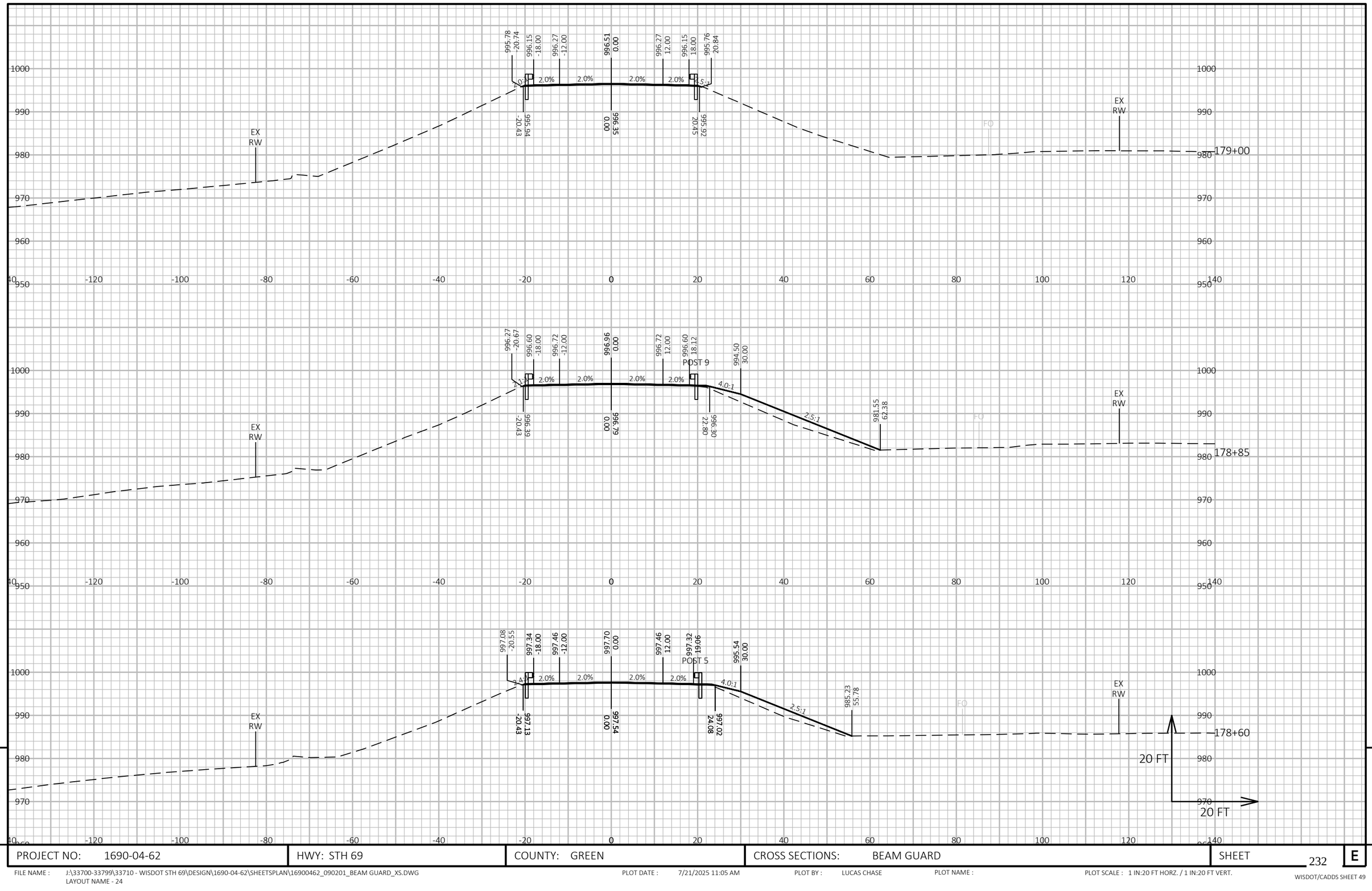
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 231	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 23

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

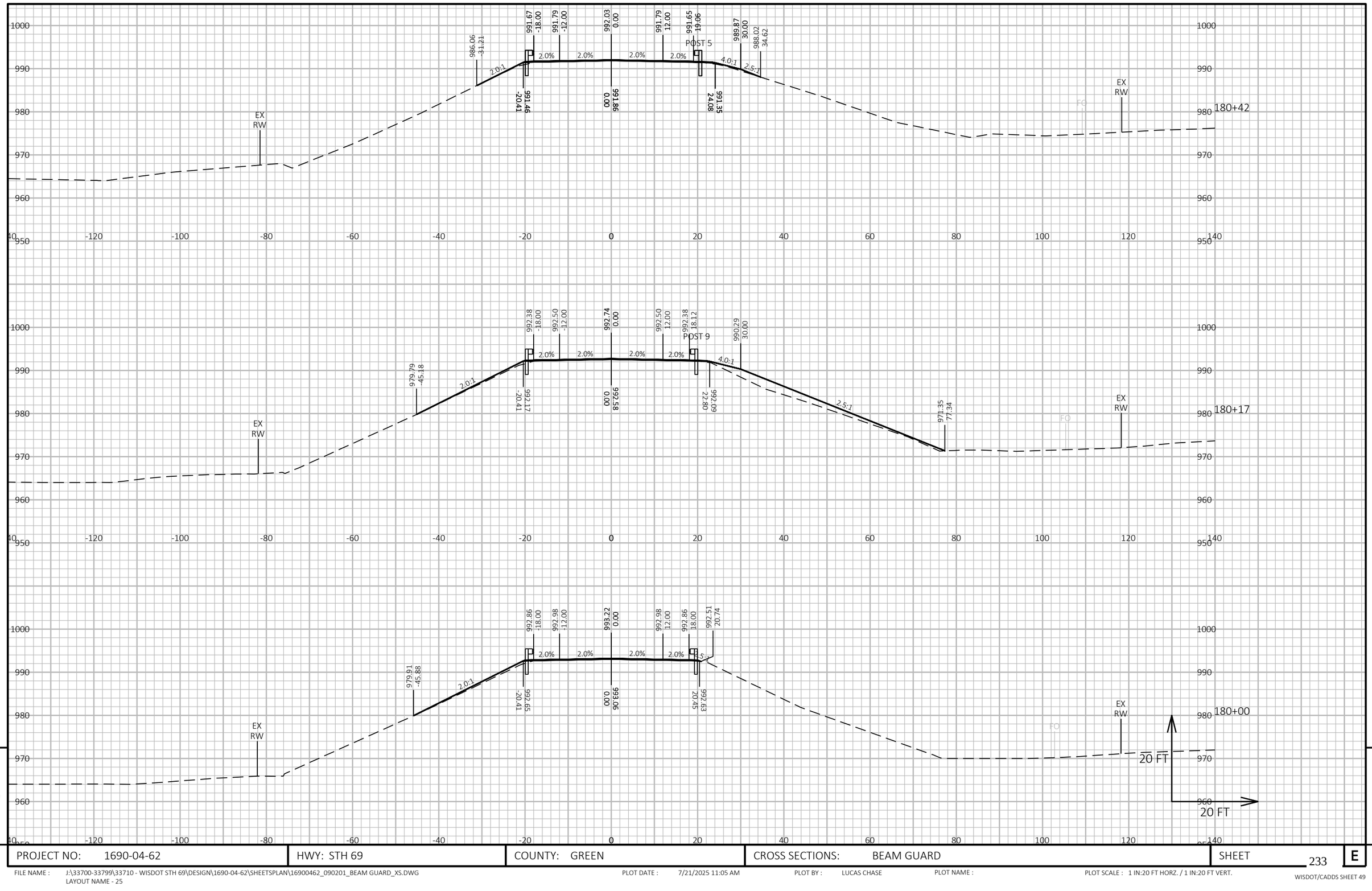
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 232	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 24

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

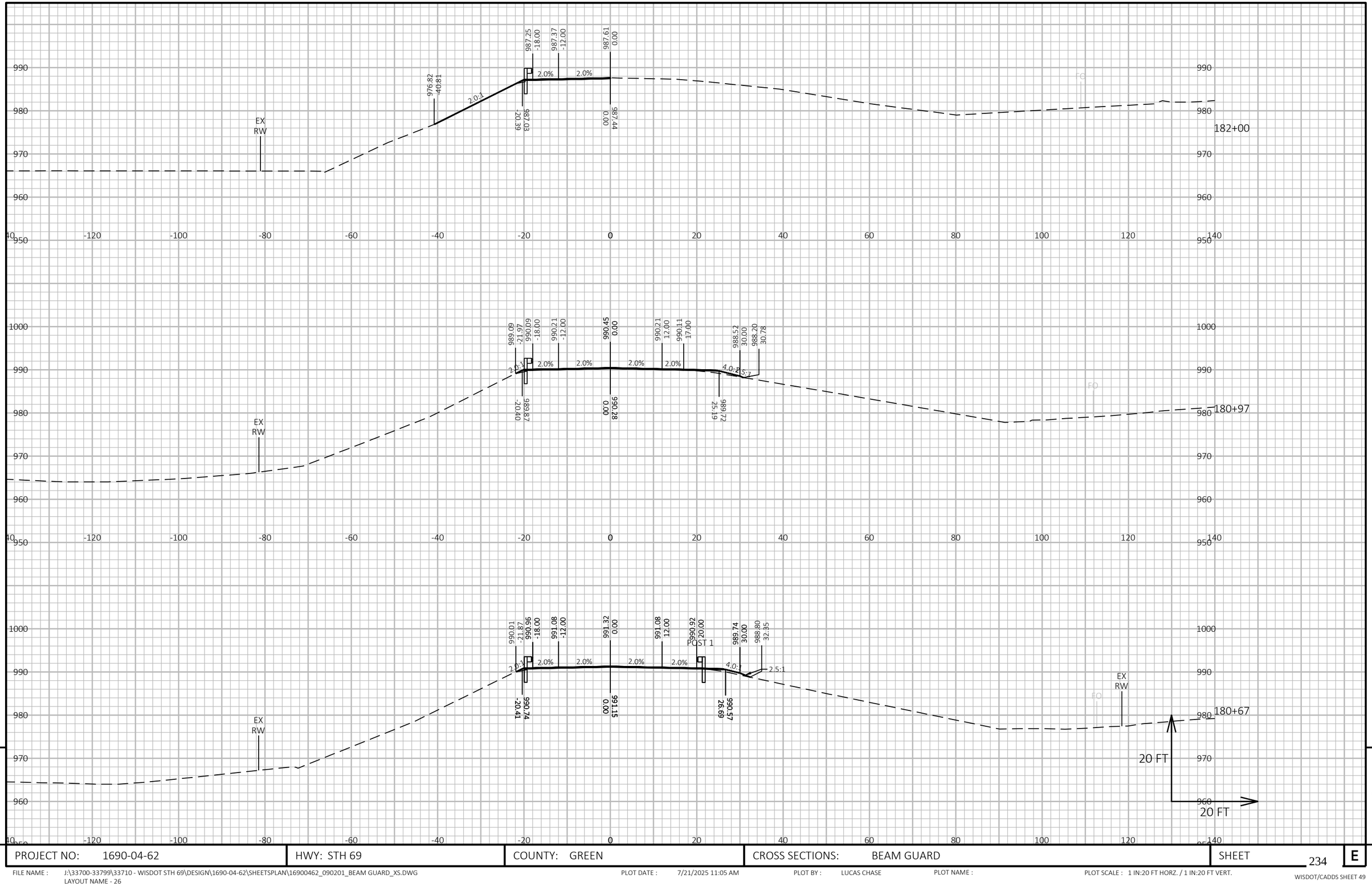
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 233	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 25

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

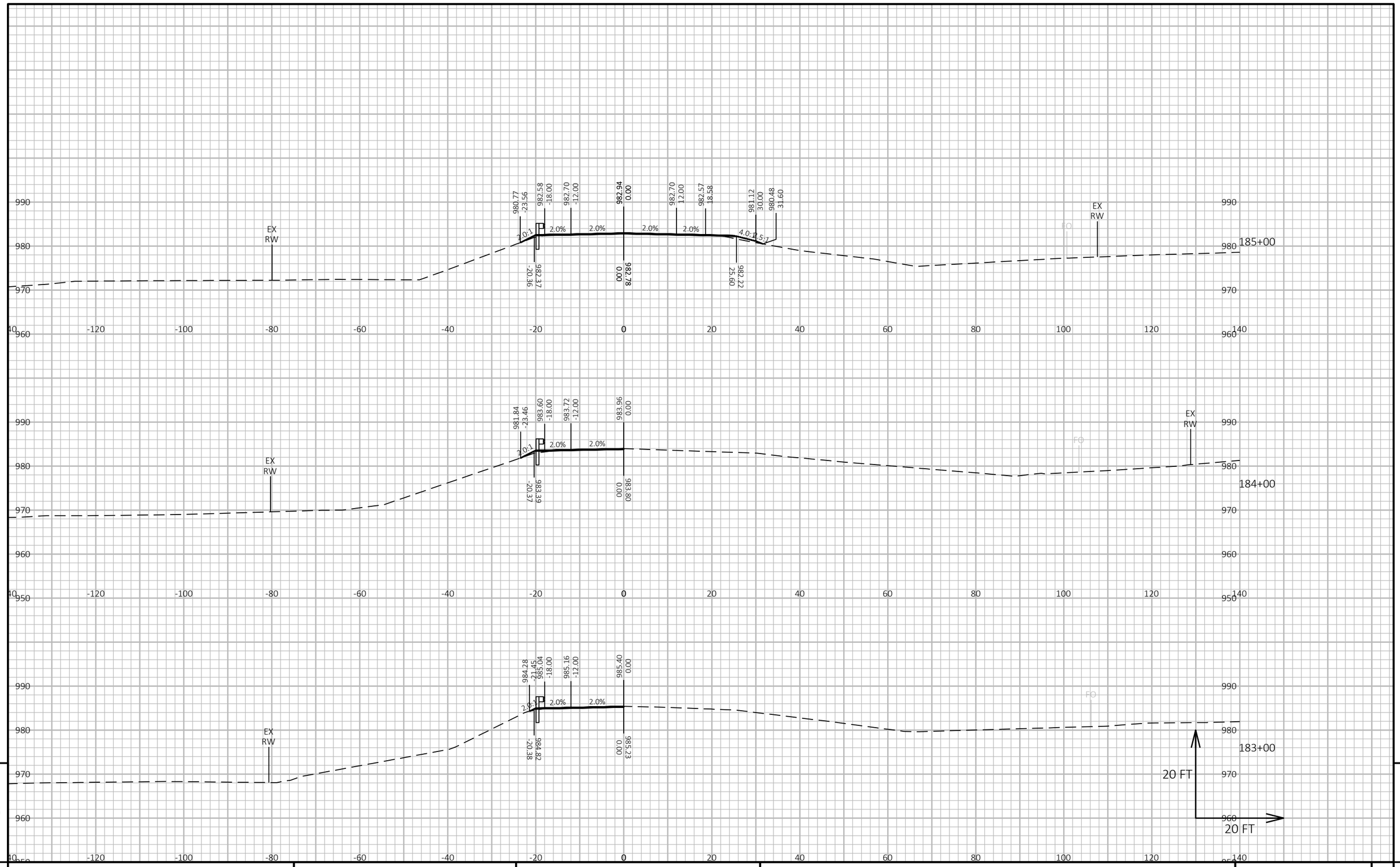
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 234	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 26

PLOT DATE : 7/21/2025 11:05 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

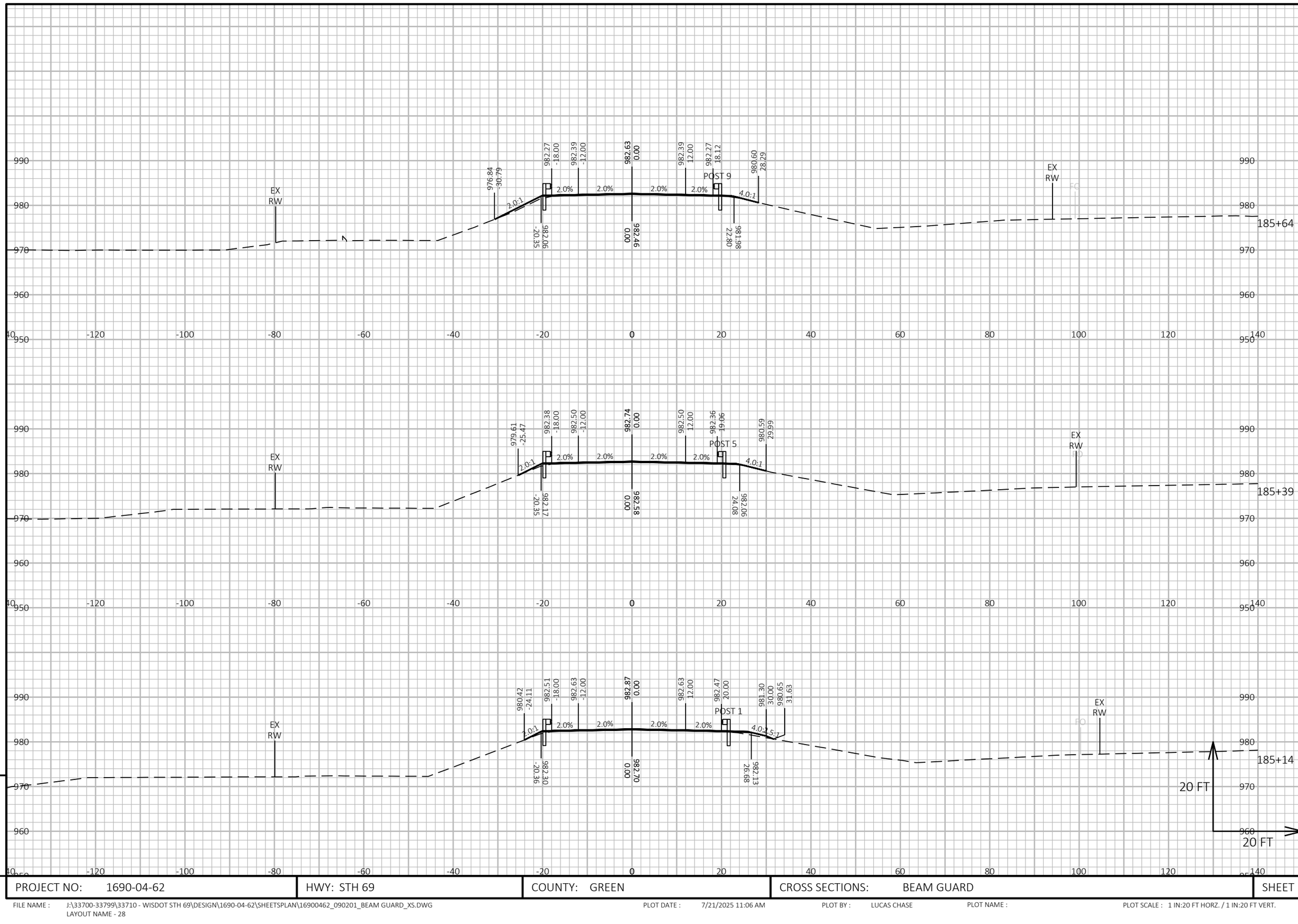
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 235	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 27

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



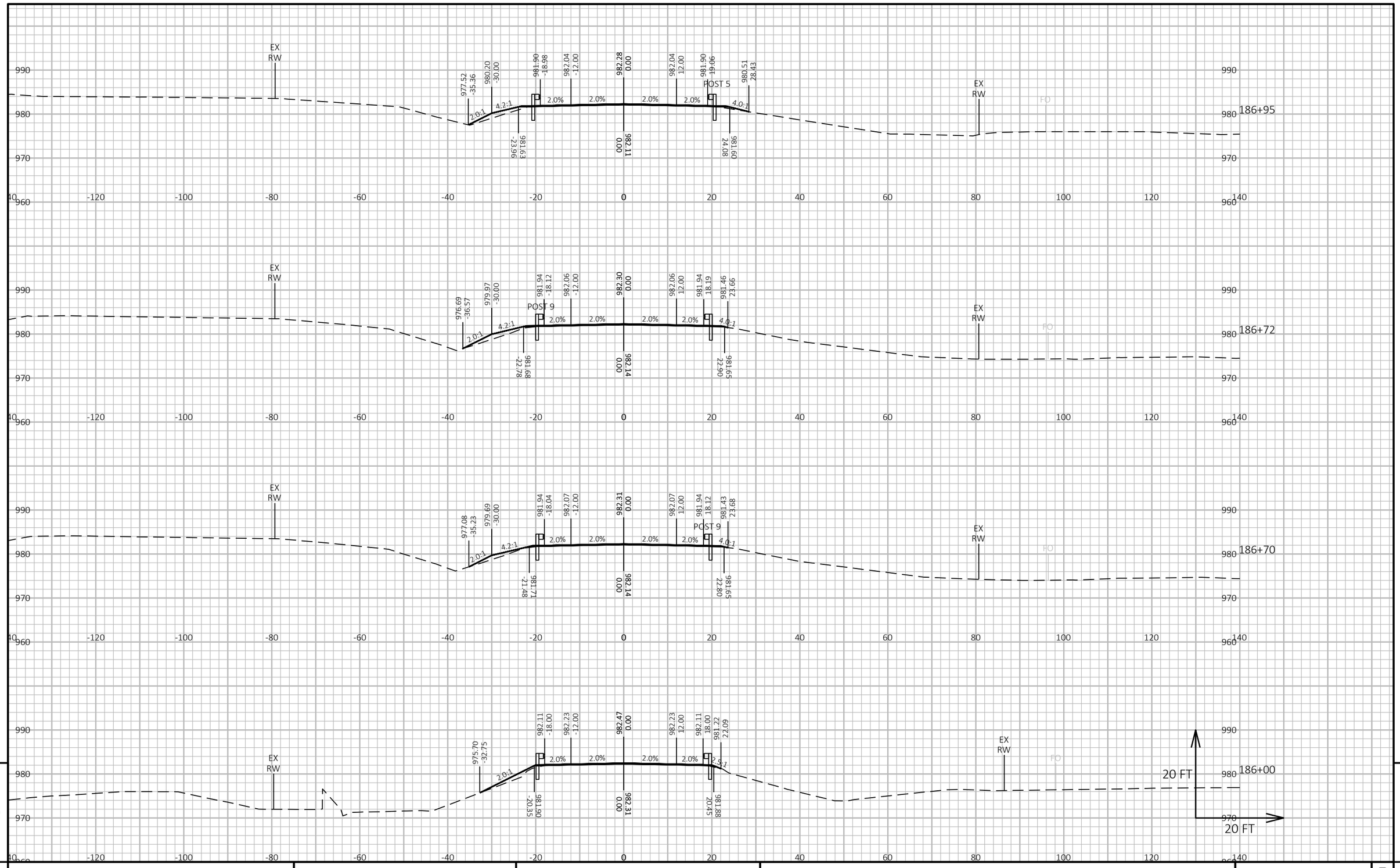
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 236	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 28

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 237	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 29

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

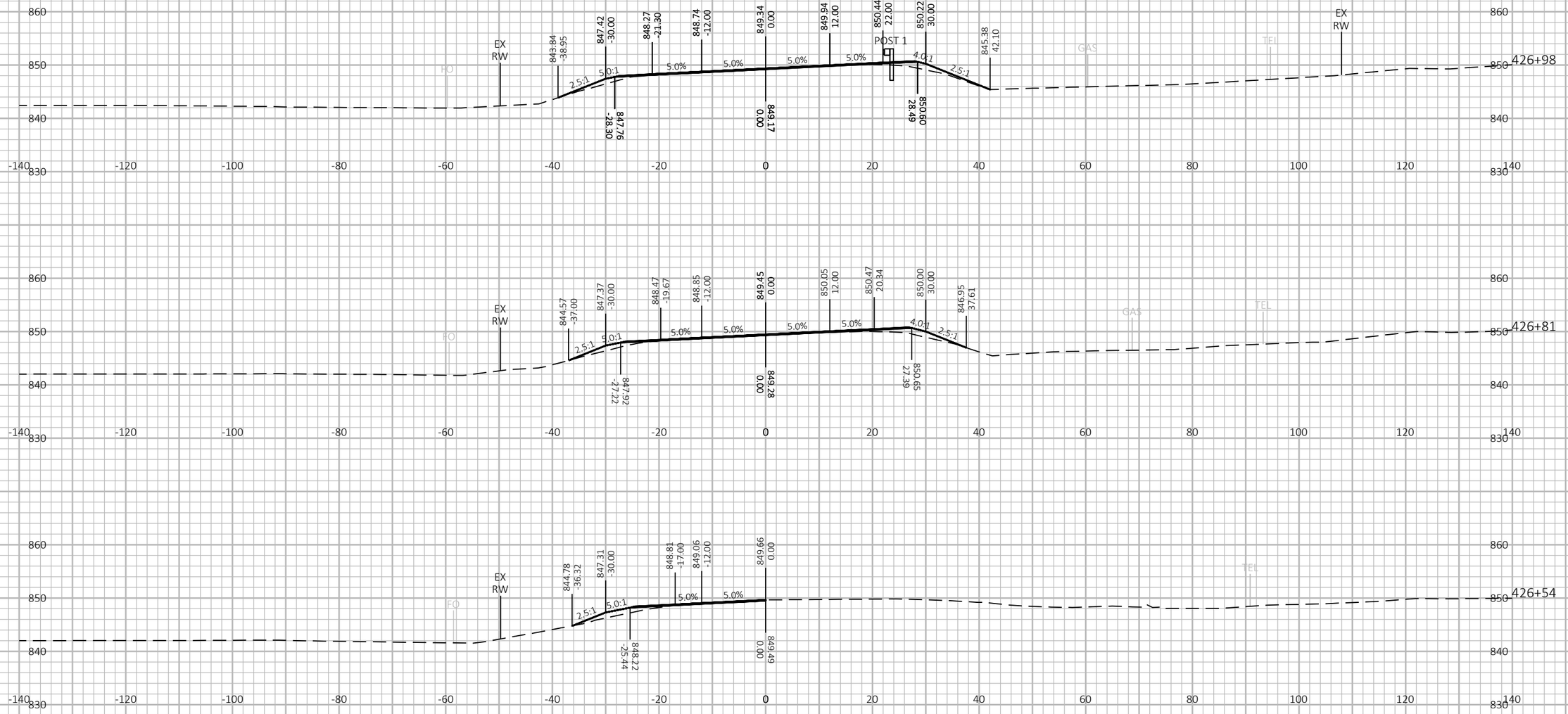
WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 238	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 30

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



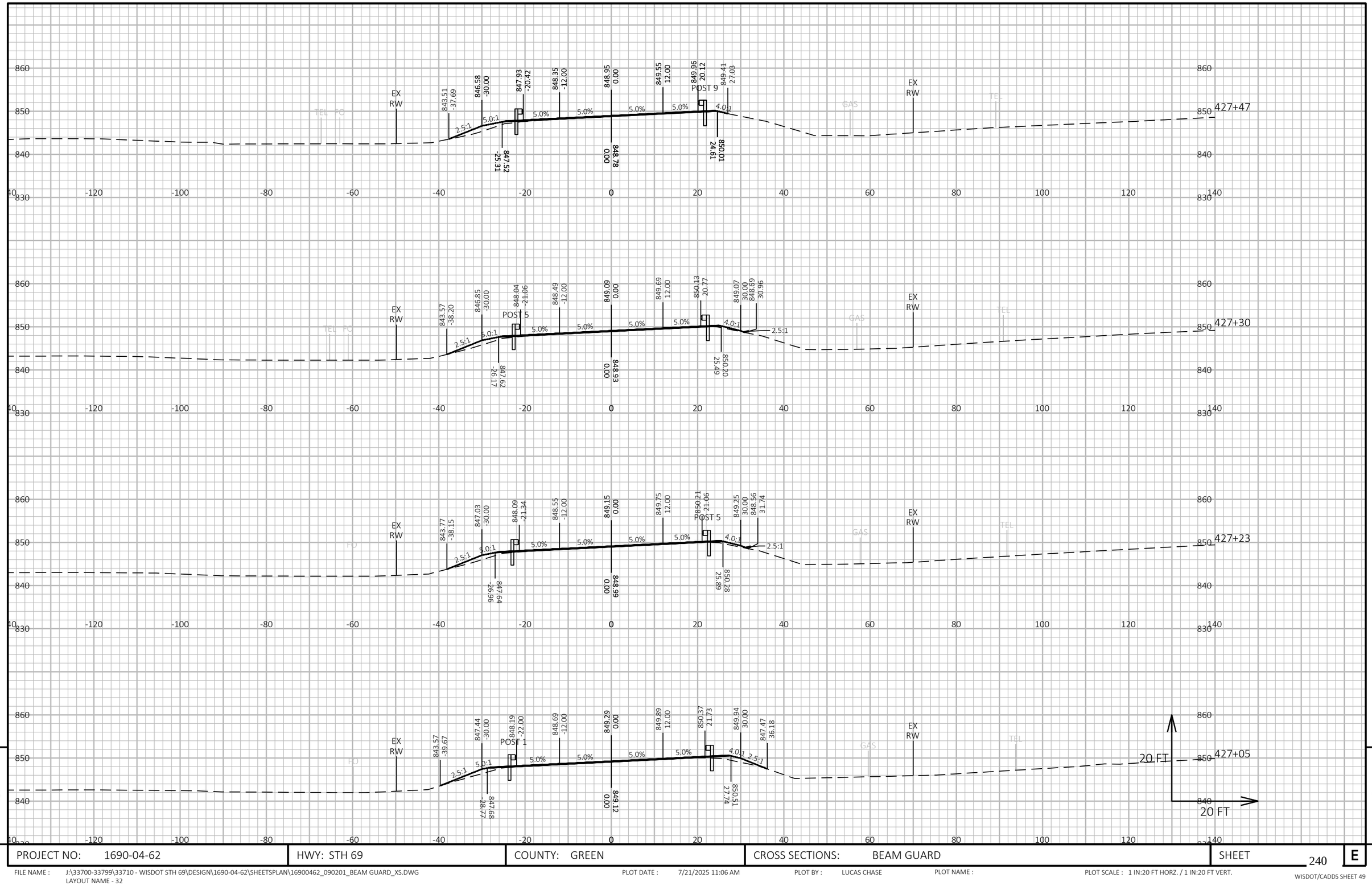
9

9

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 239	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 31

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

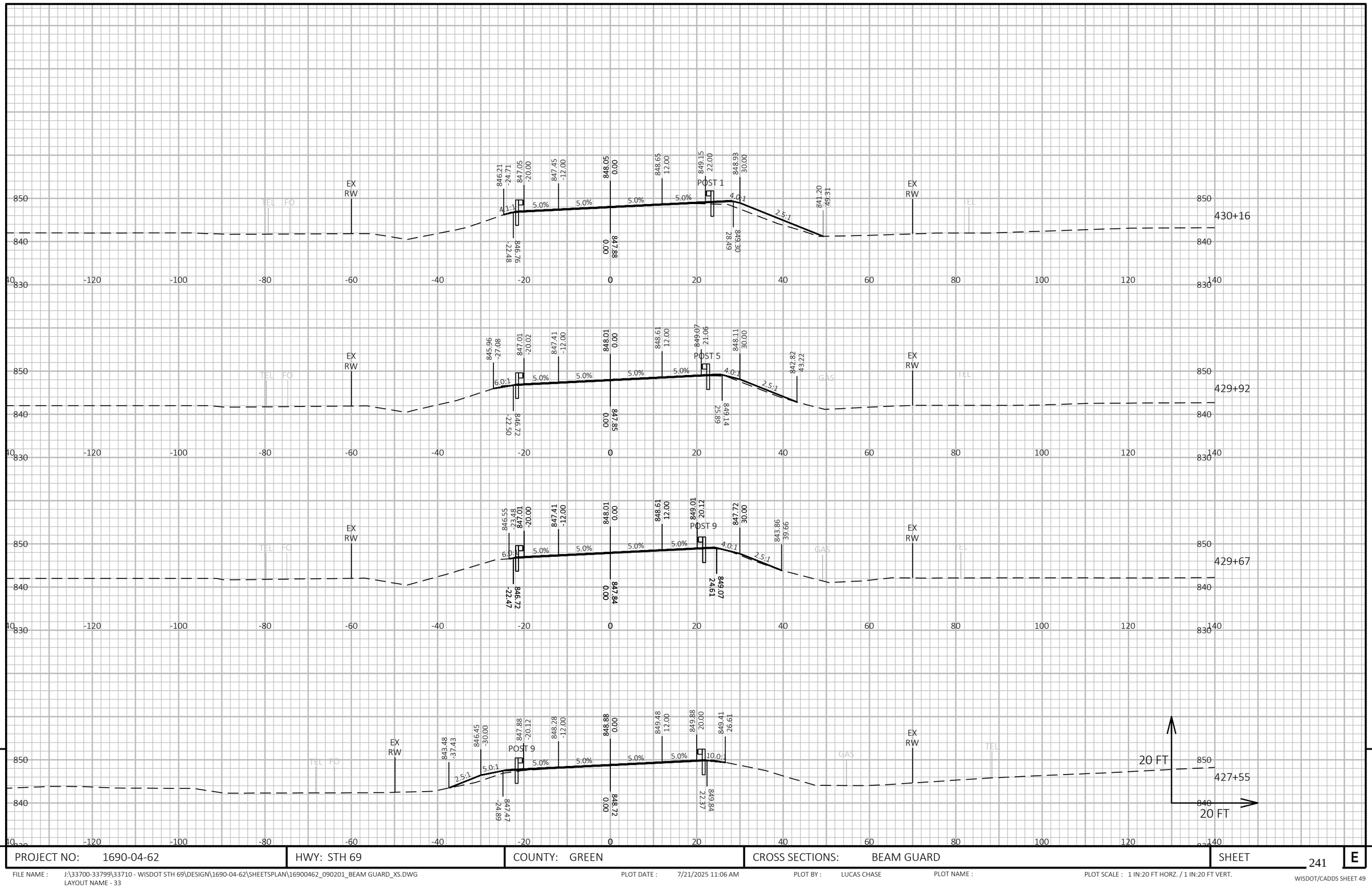


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9

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 240	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 32
PLOT DATE : 7/21/2025 11:06 AM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

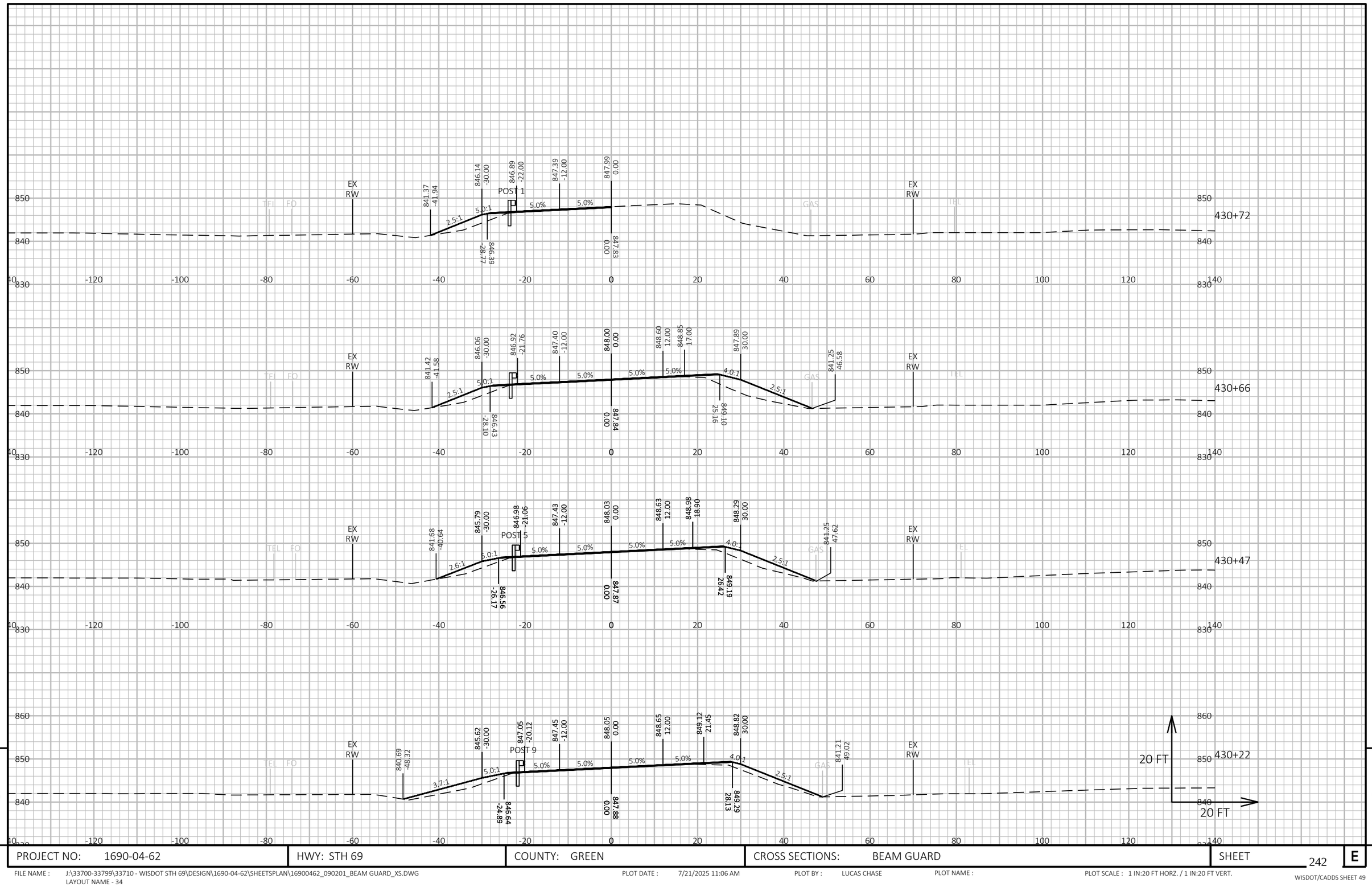


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 241 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 33

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



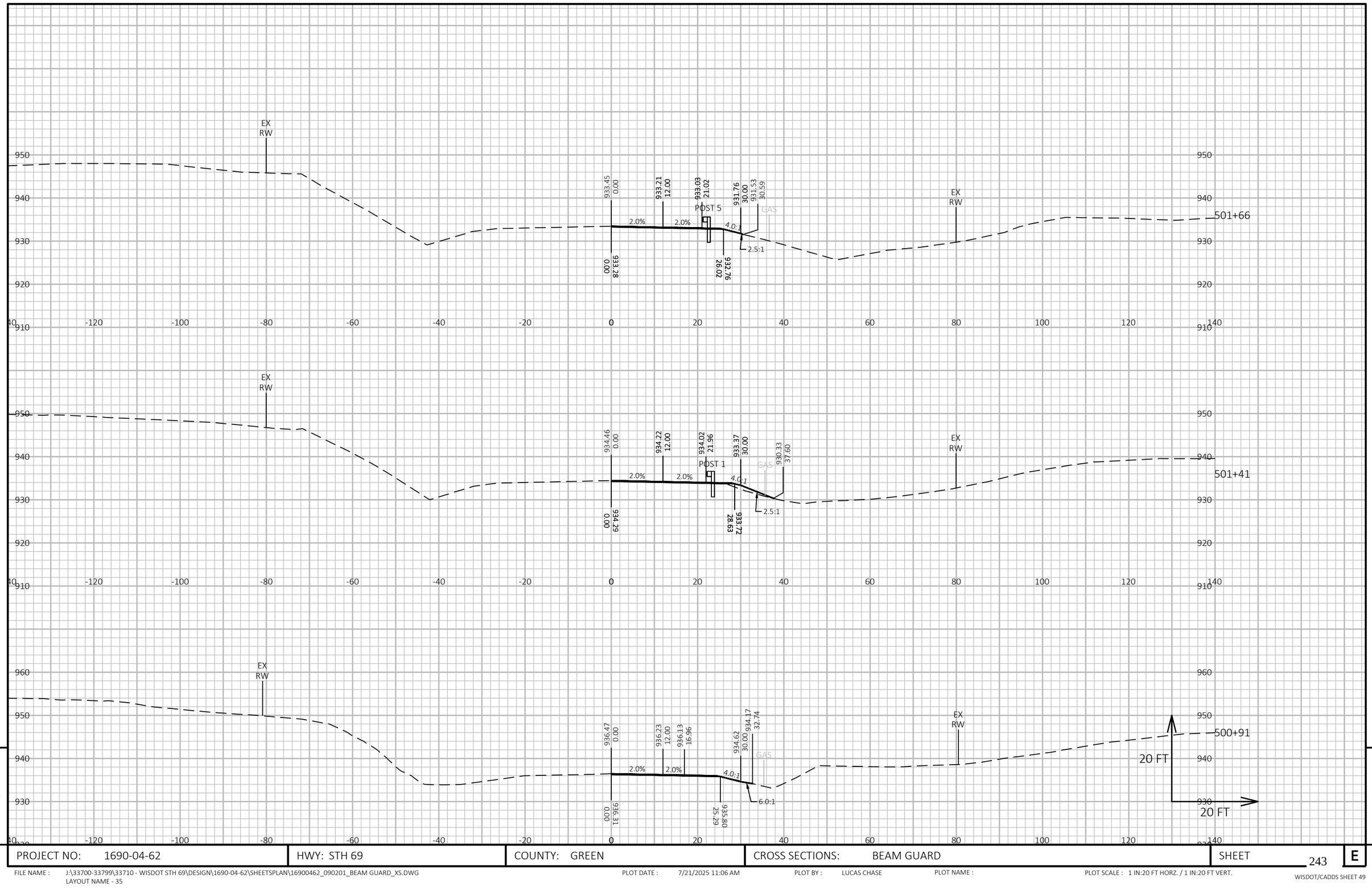
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 242	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 34

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



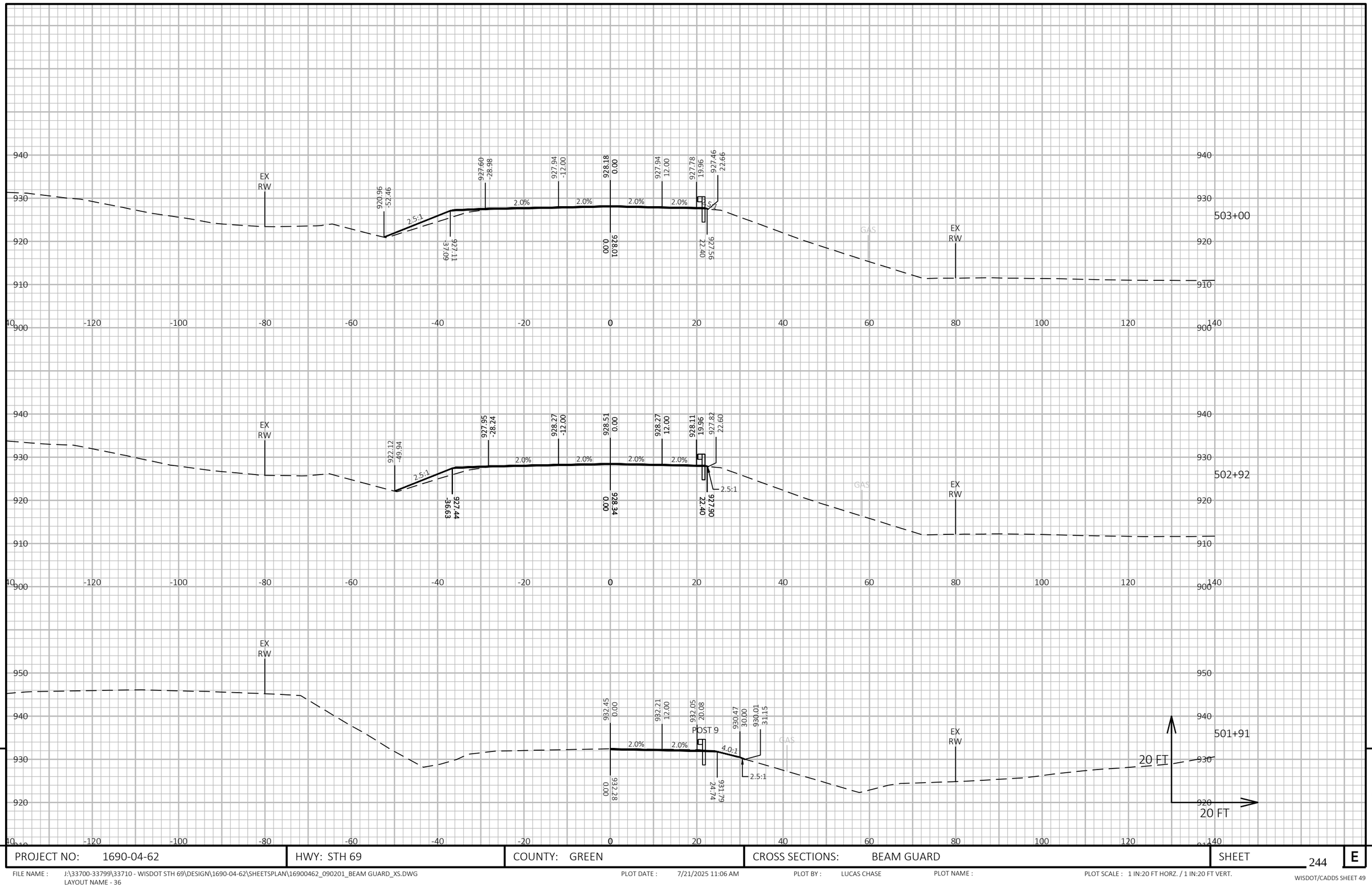
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 243	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 35

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

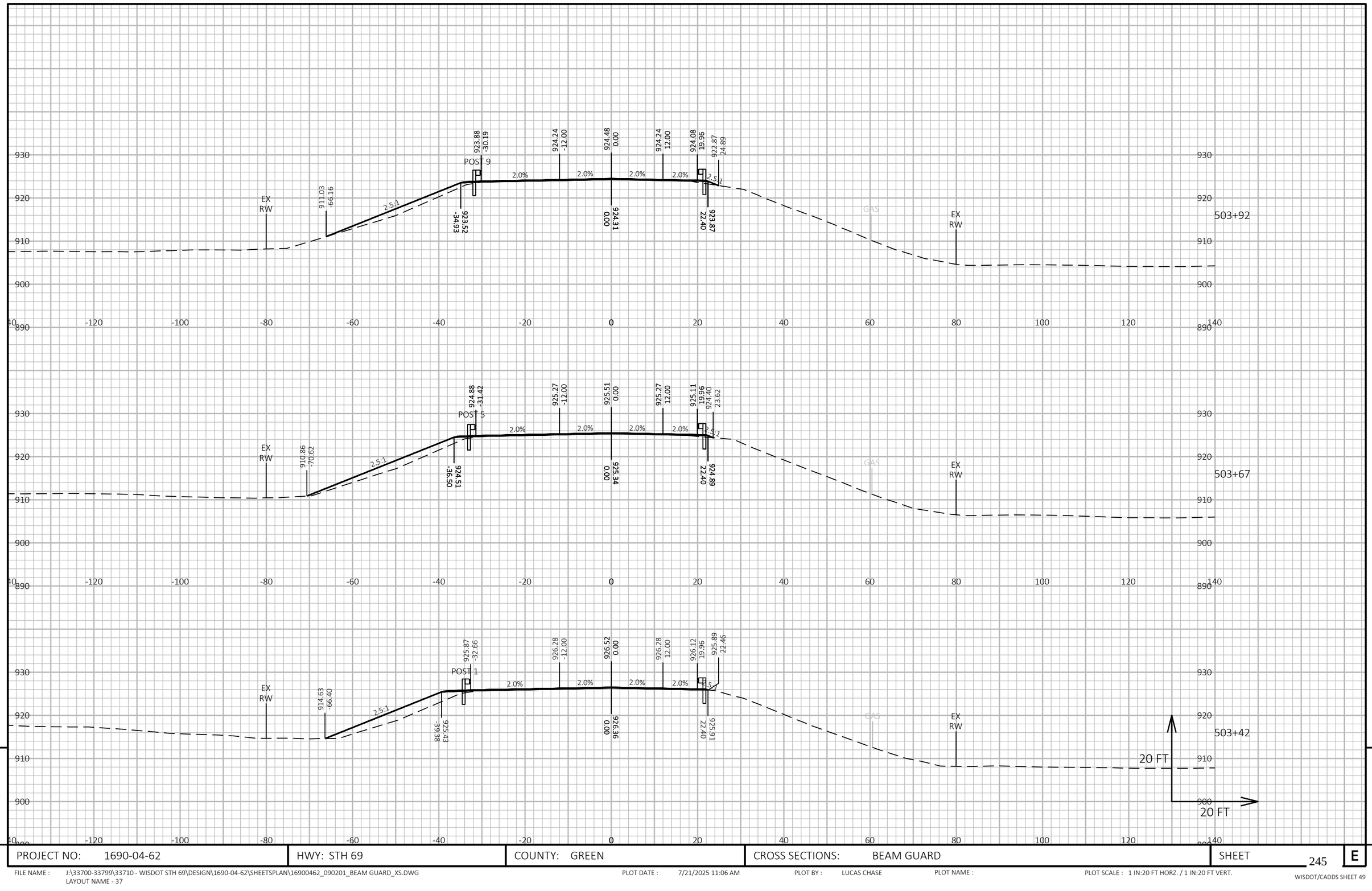
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 244	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 36

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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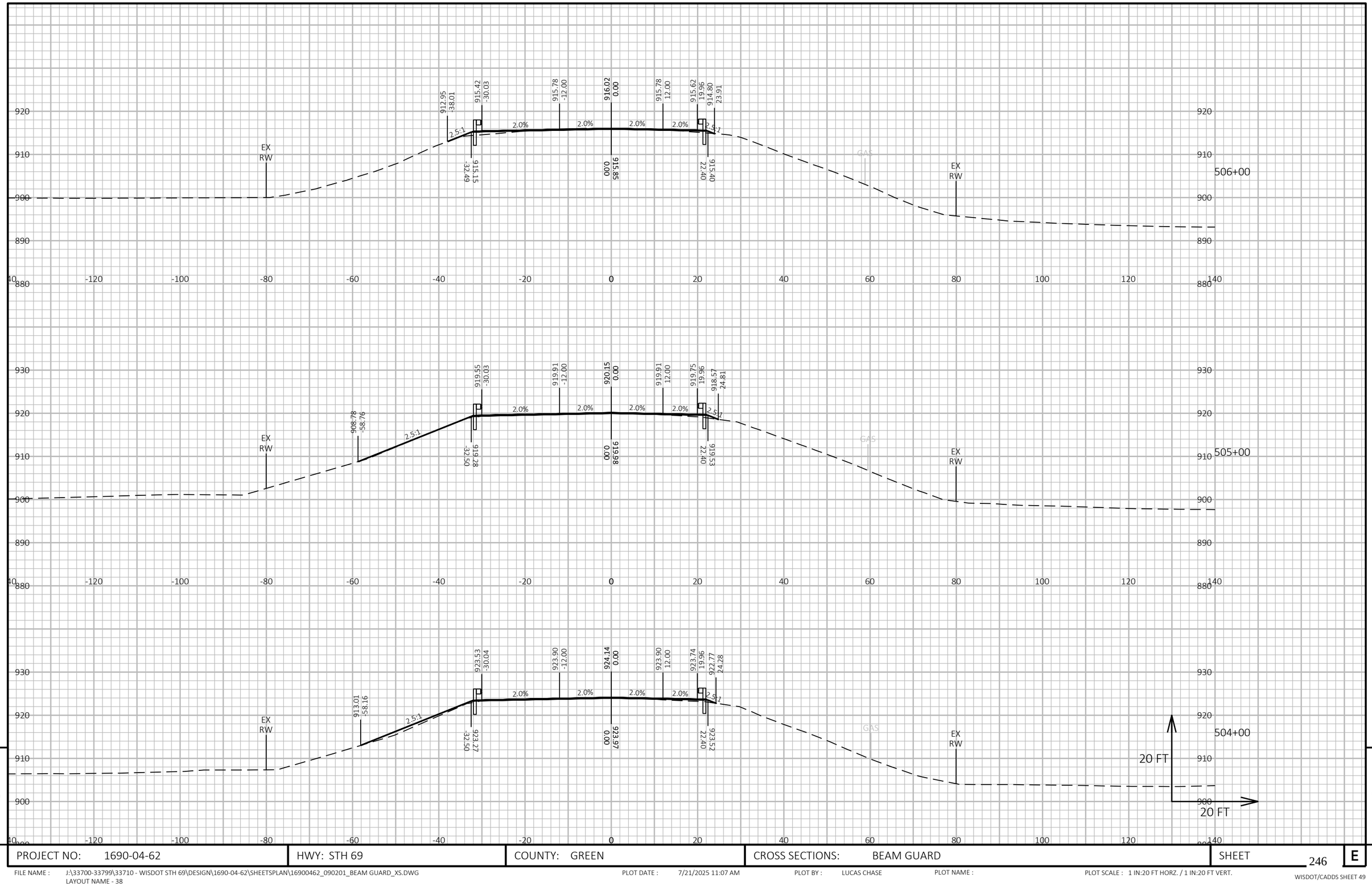
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 245	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 37

PLOT DATE : 7/21/2025 11:06 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

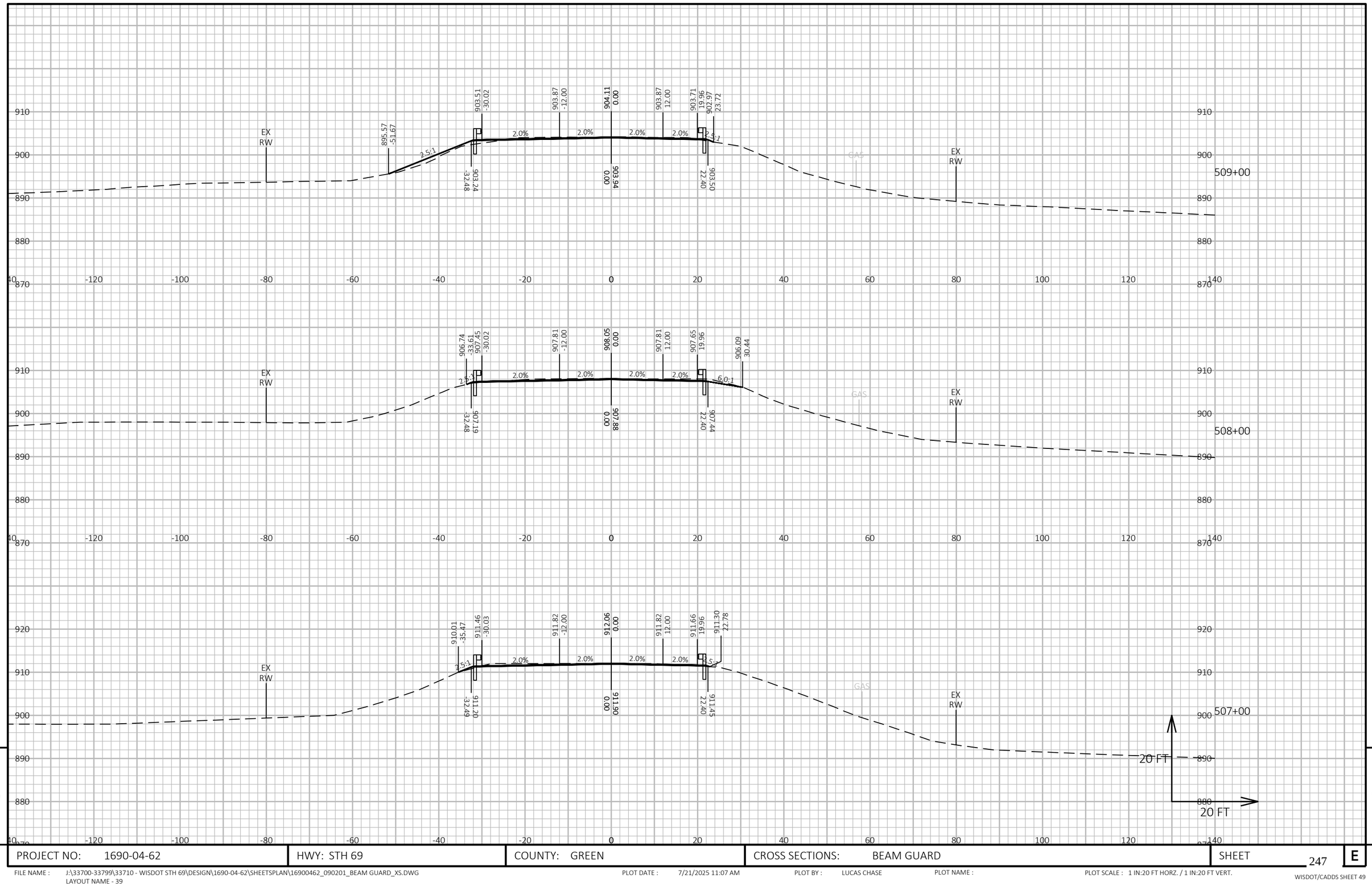
WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 246 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 38

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

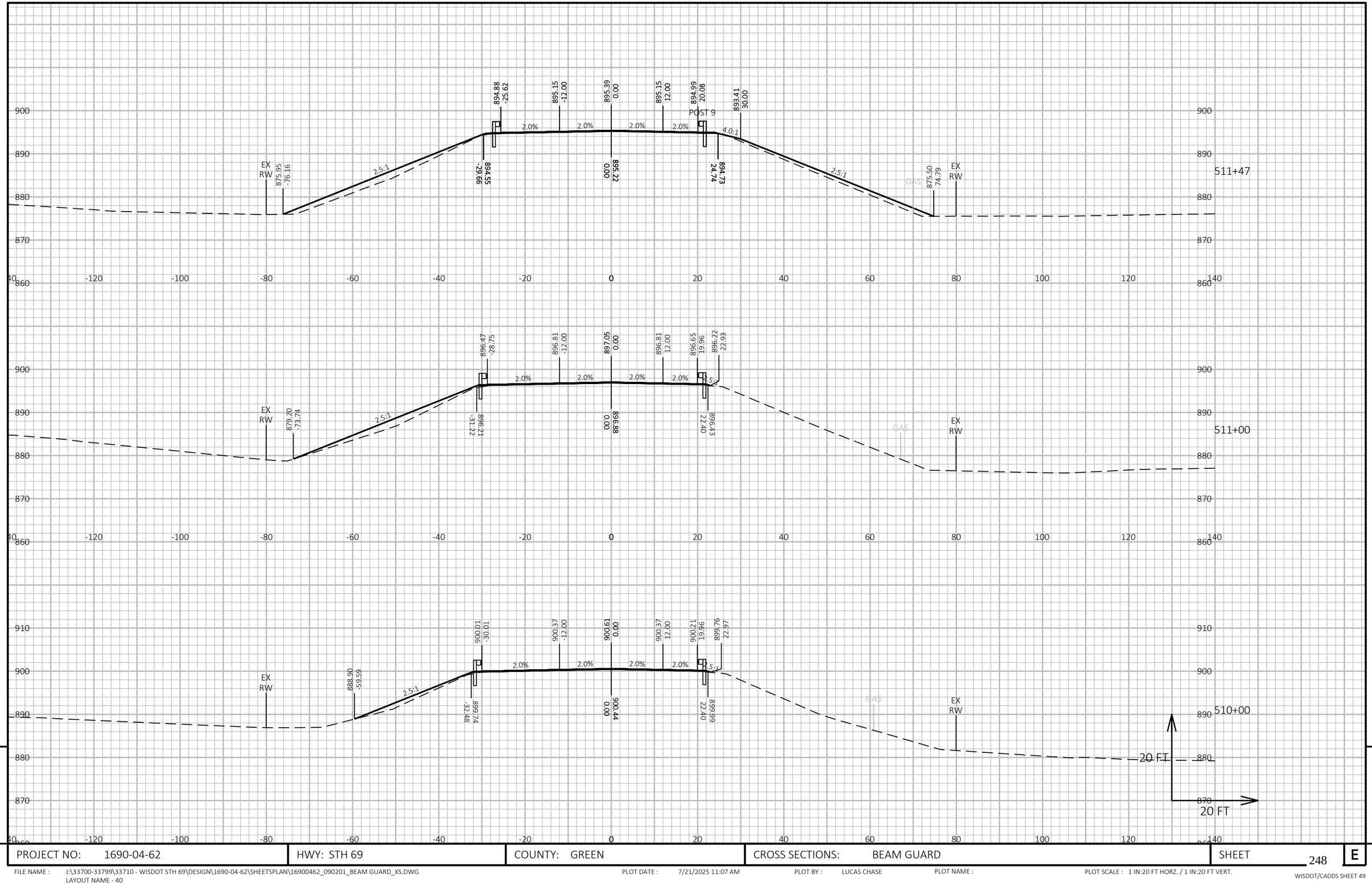


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 247	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 39

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

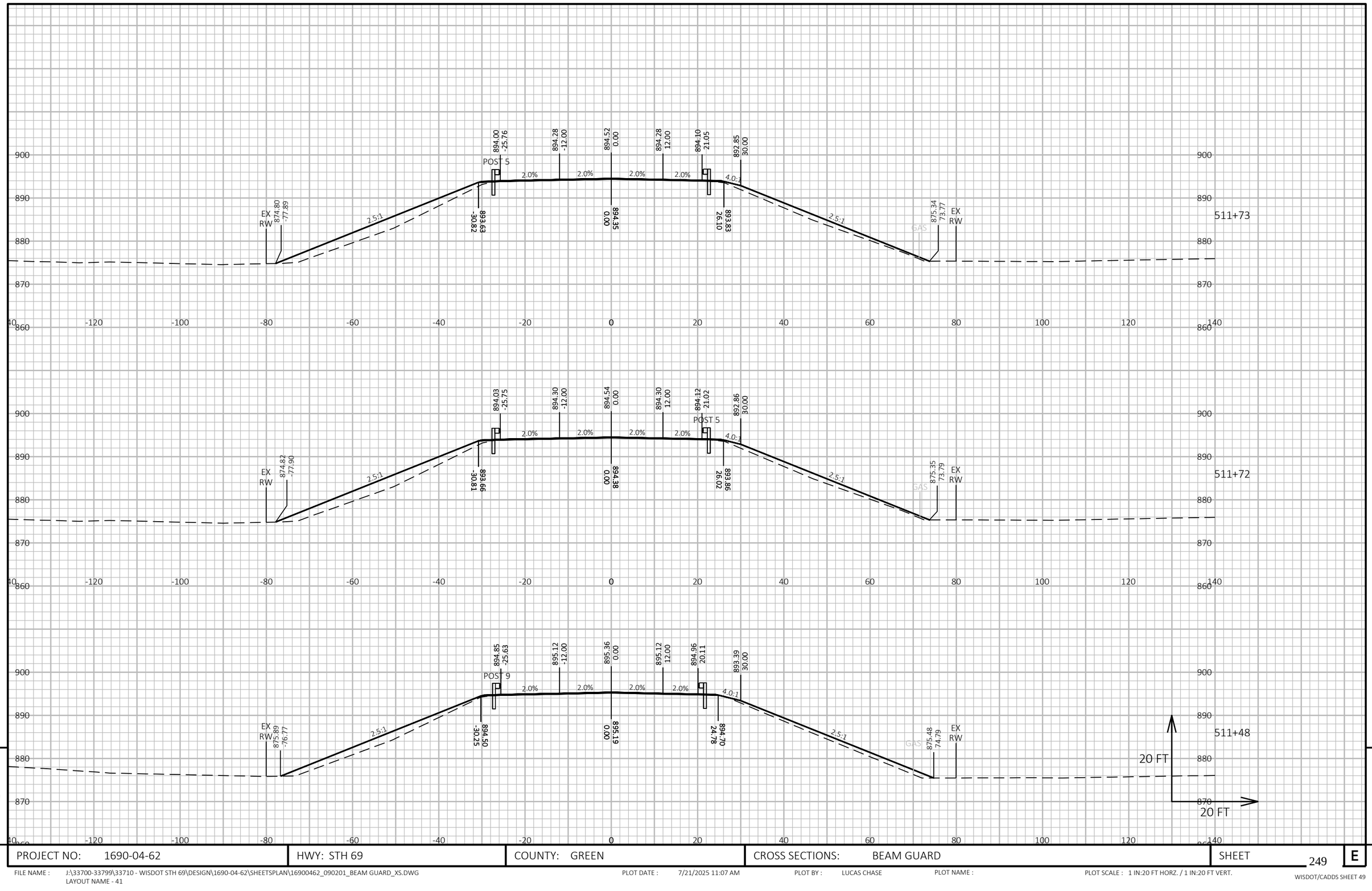


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 248	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 40

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

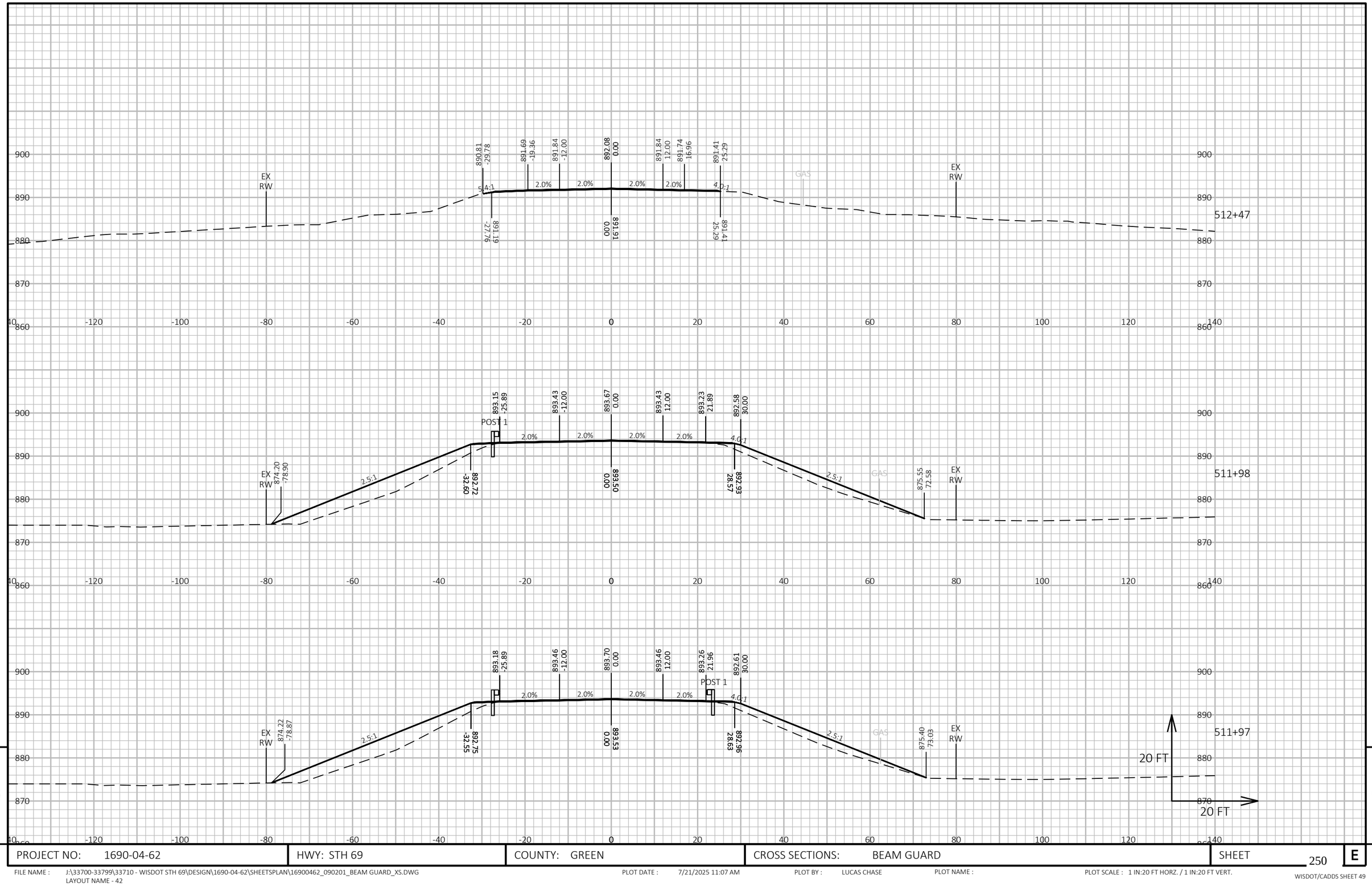
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 249	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 41

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

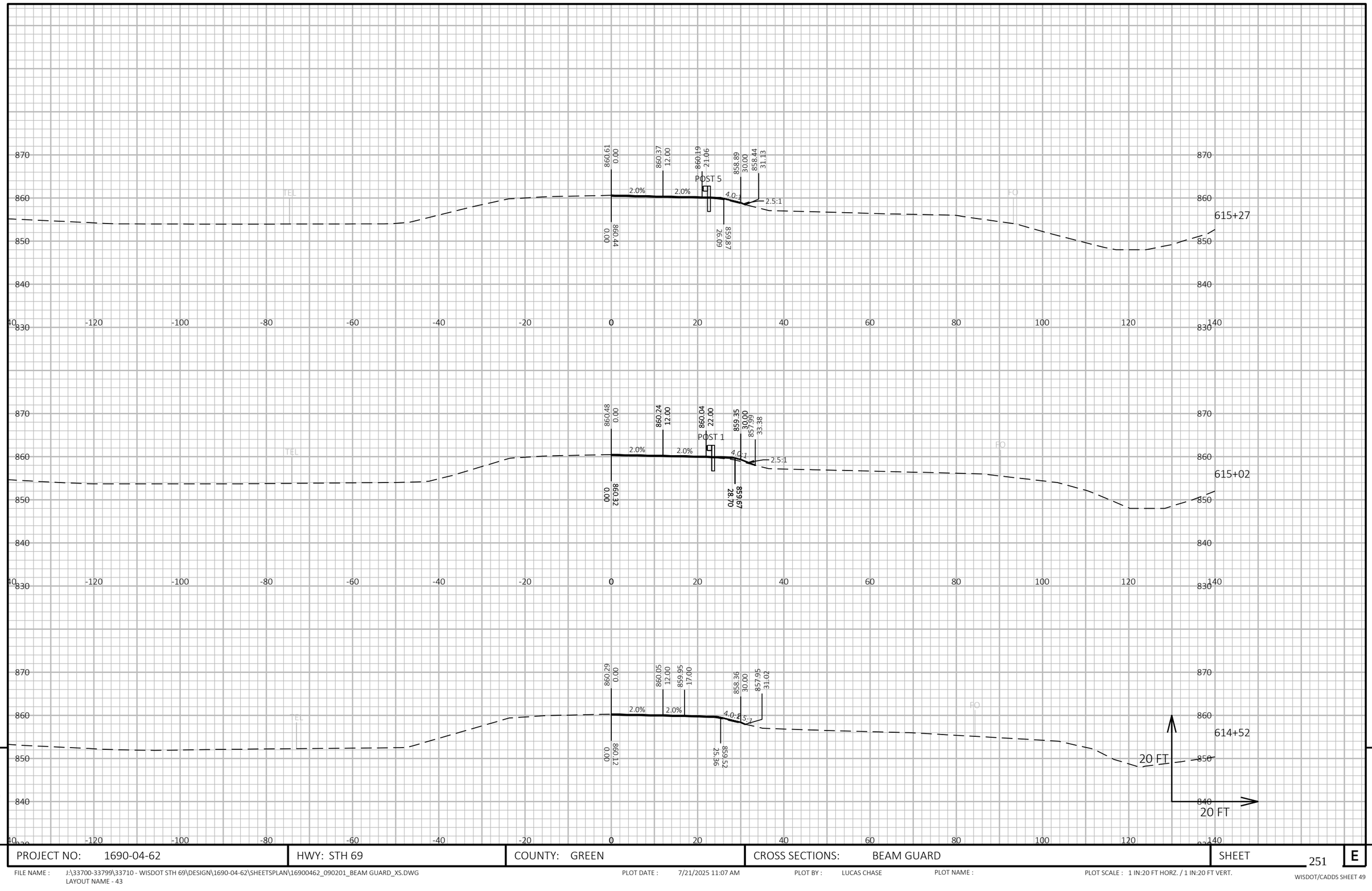
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 250	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 42

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

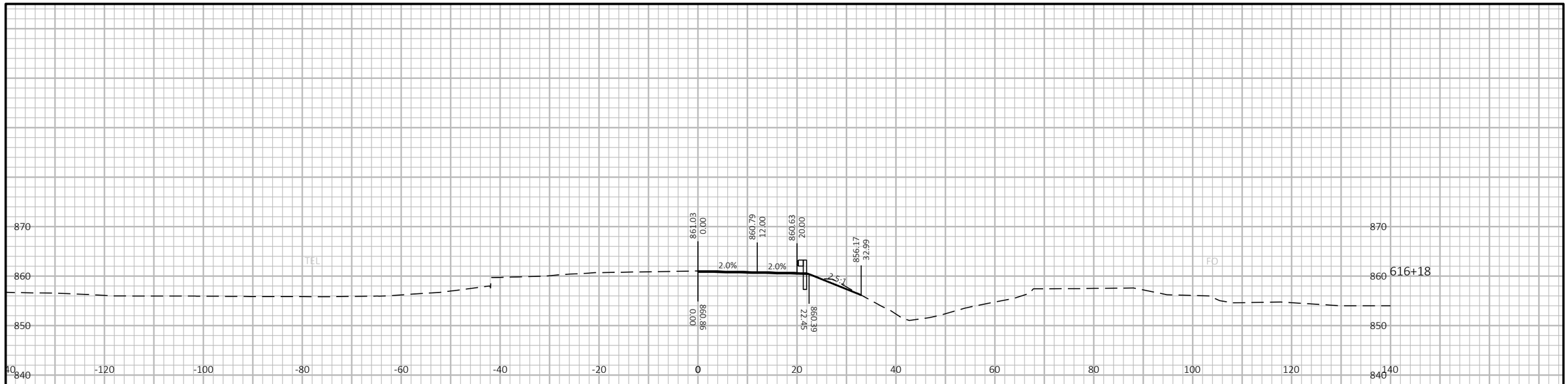
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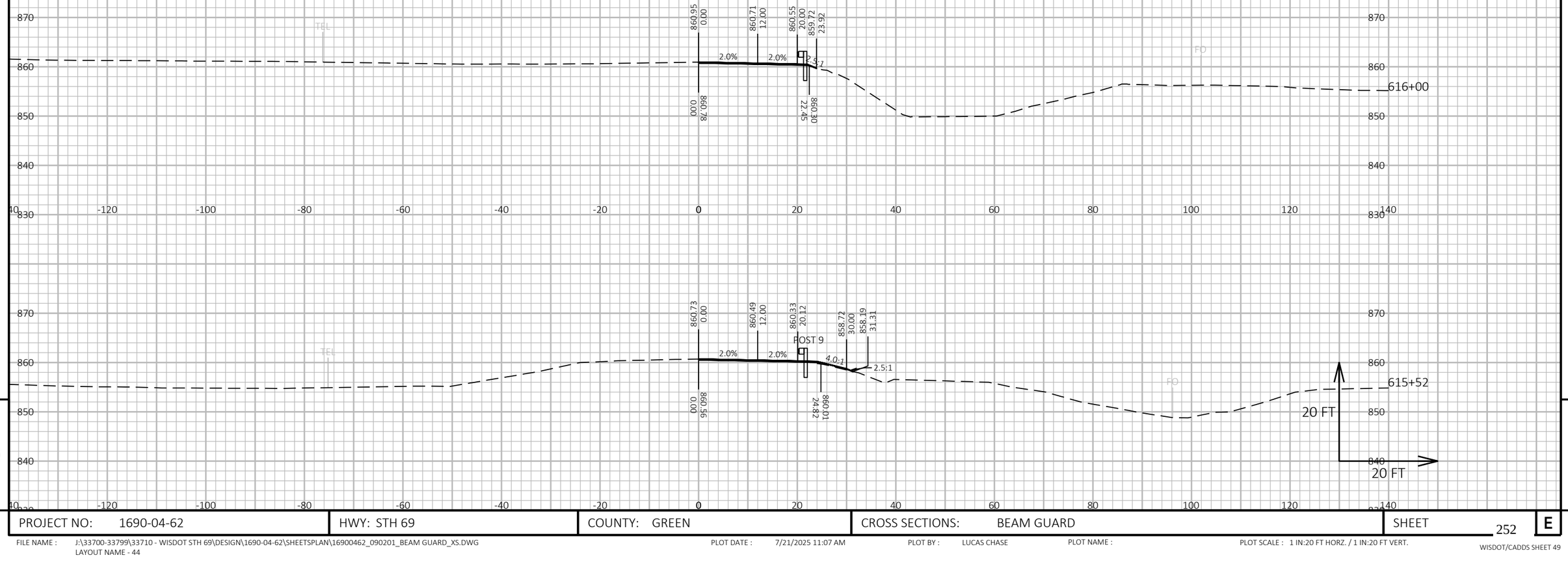
PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 251	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 43

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





9

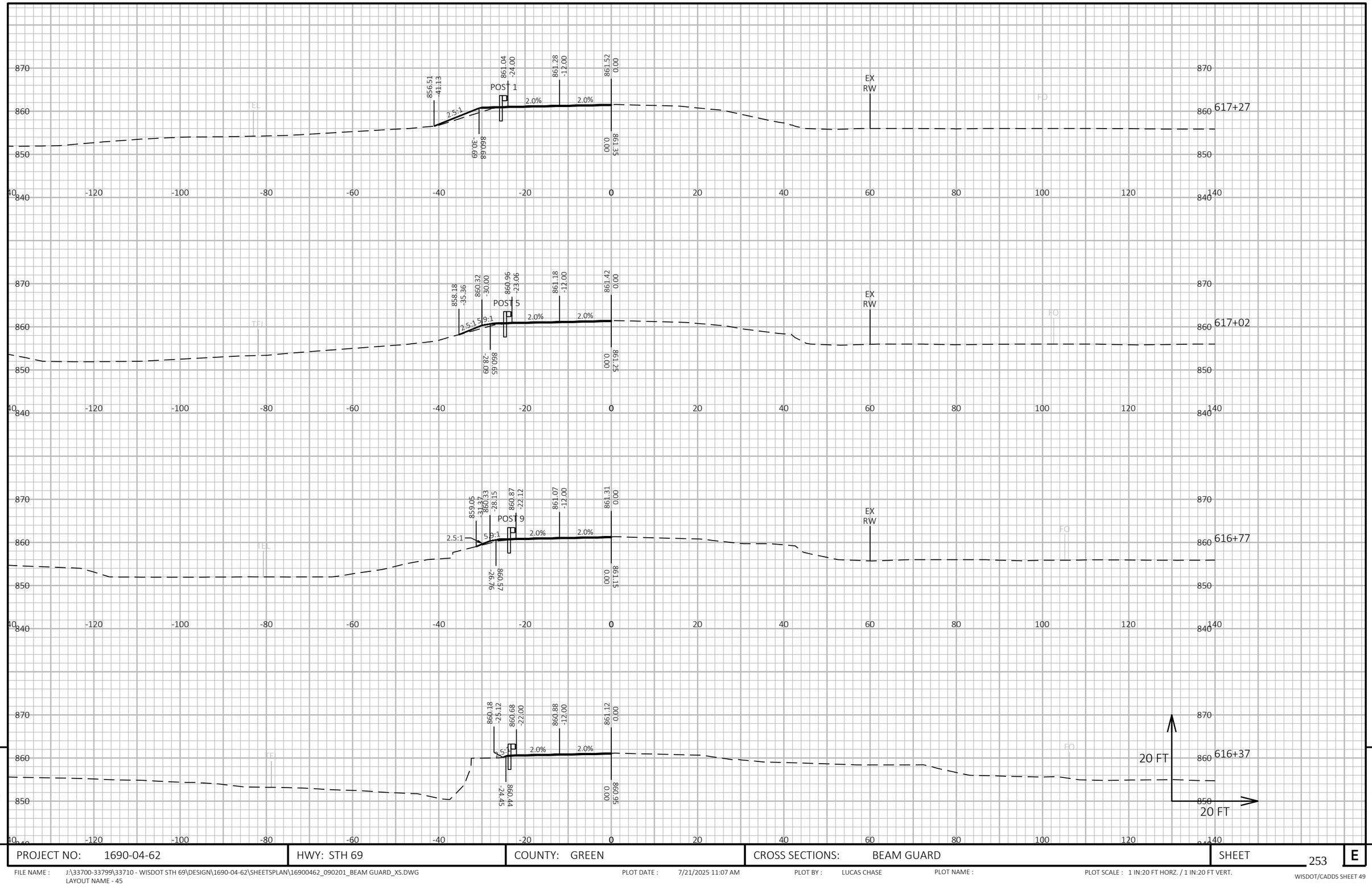
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 252	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 44

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

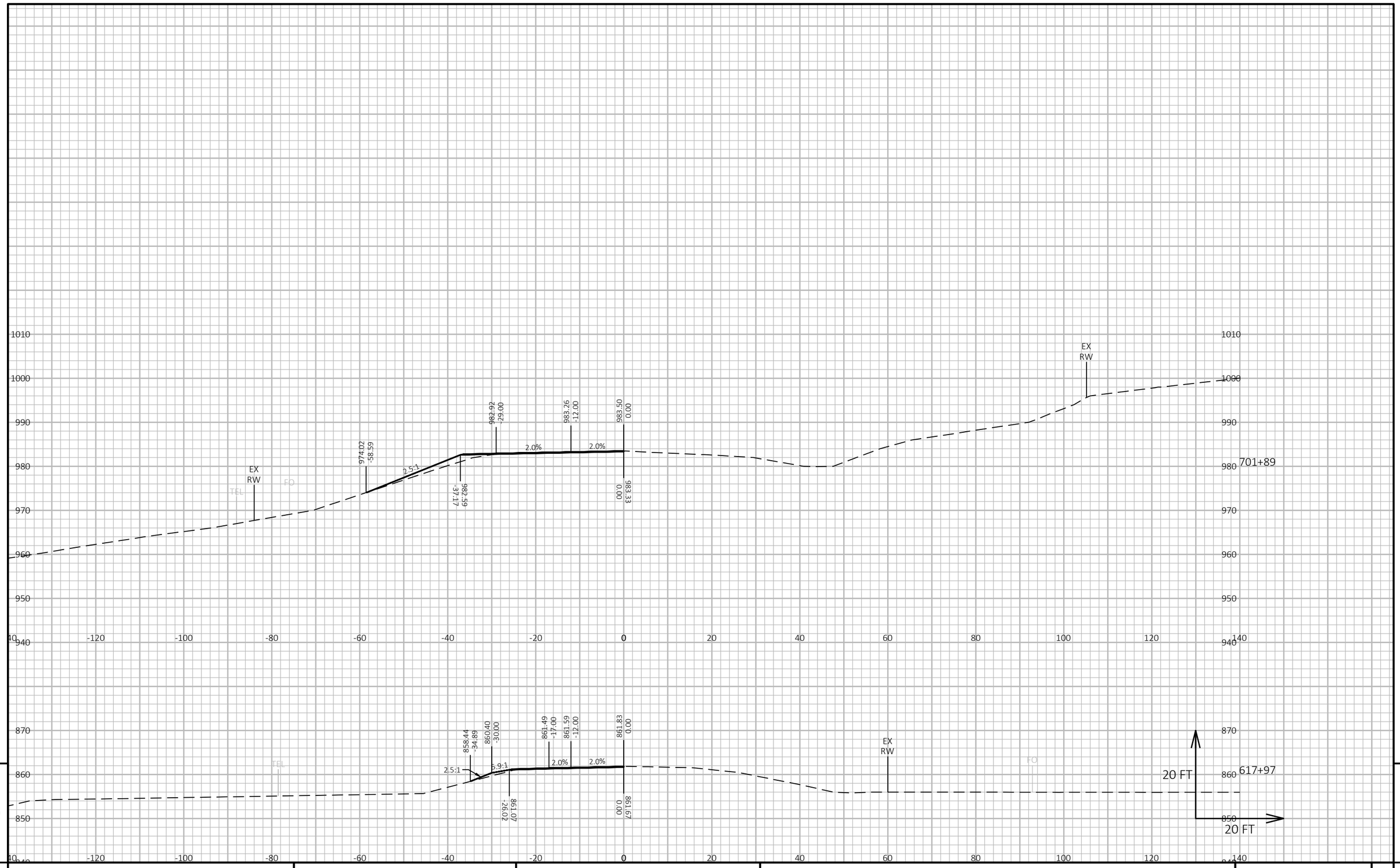
WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 253 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 45

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

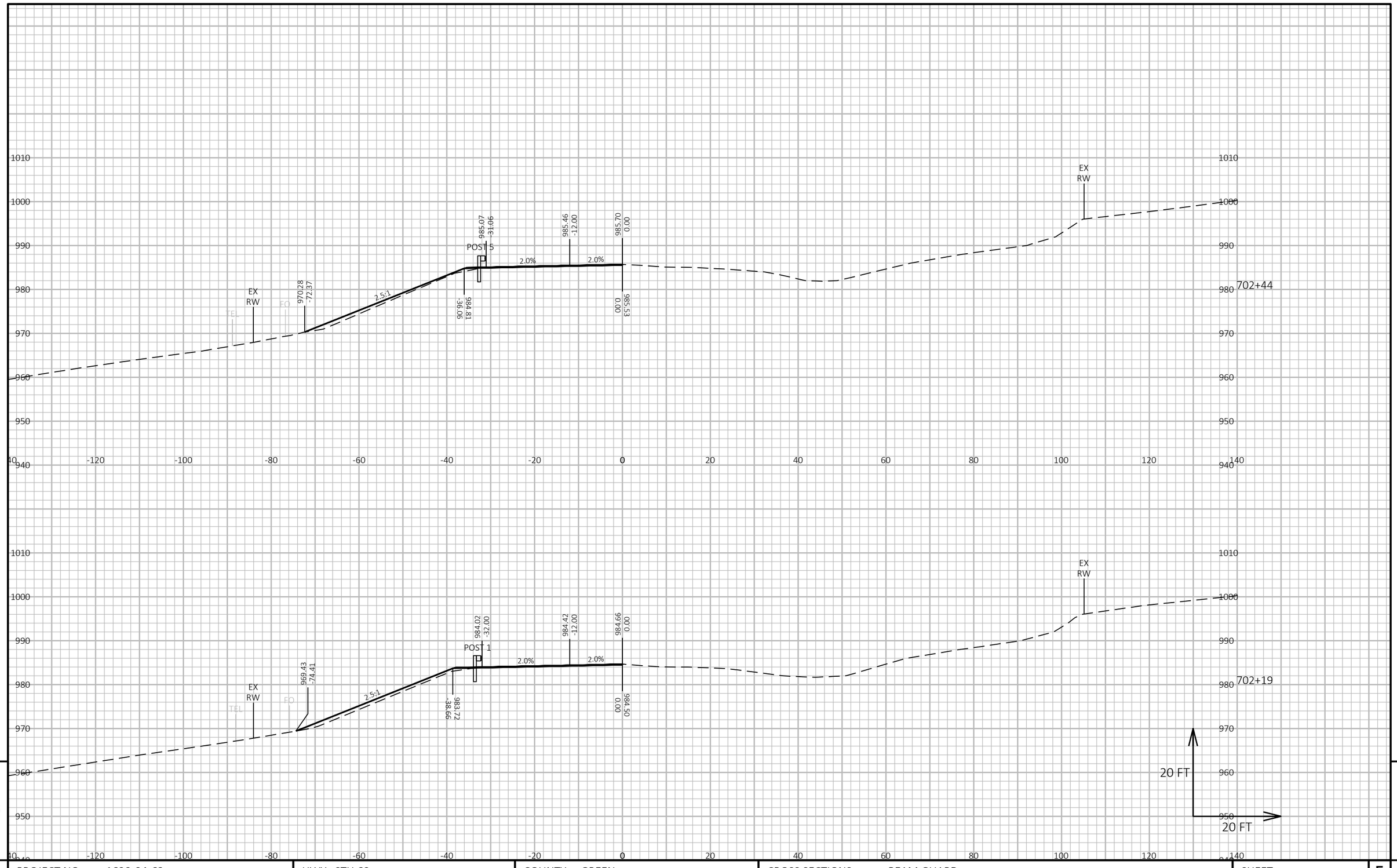
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 254	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 46

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

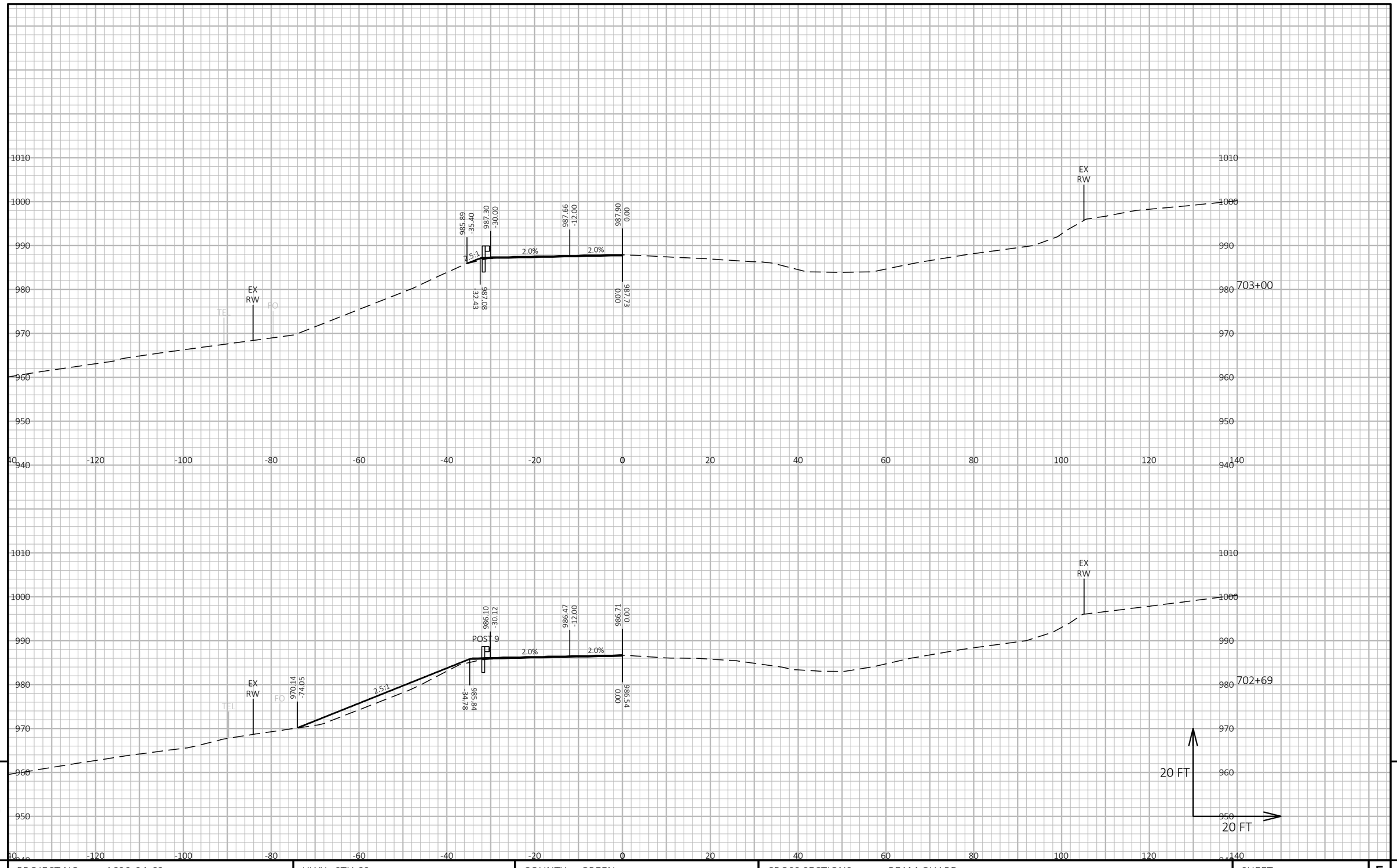
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 255	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 47

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



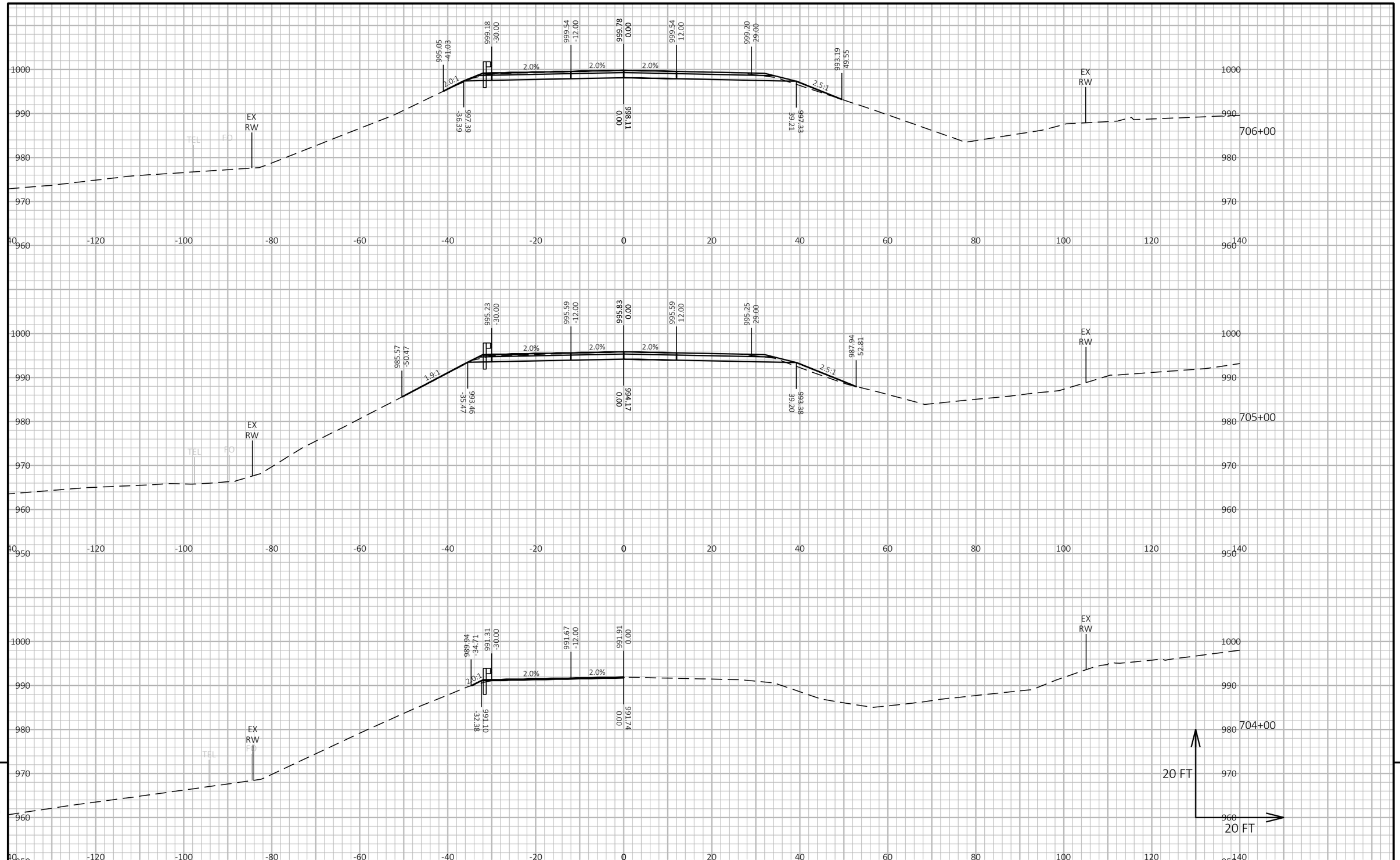
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9

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 256	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 48

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

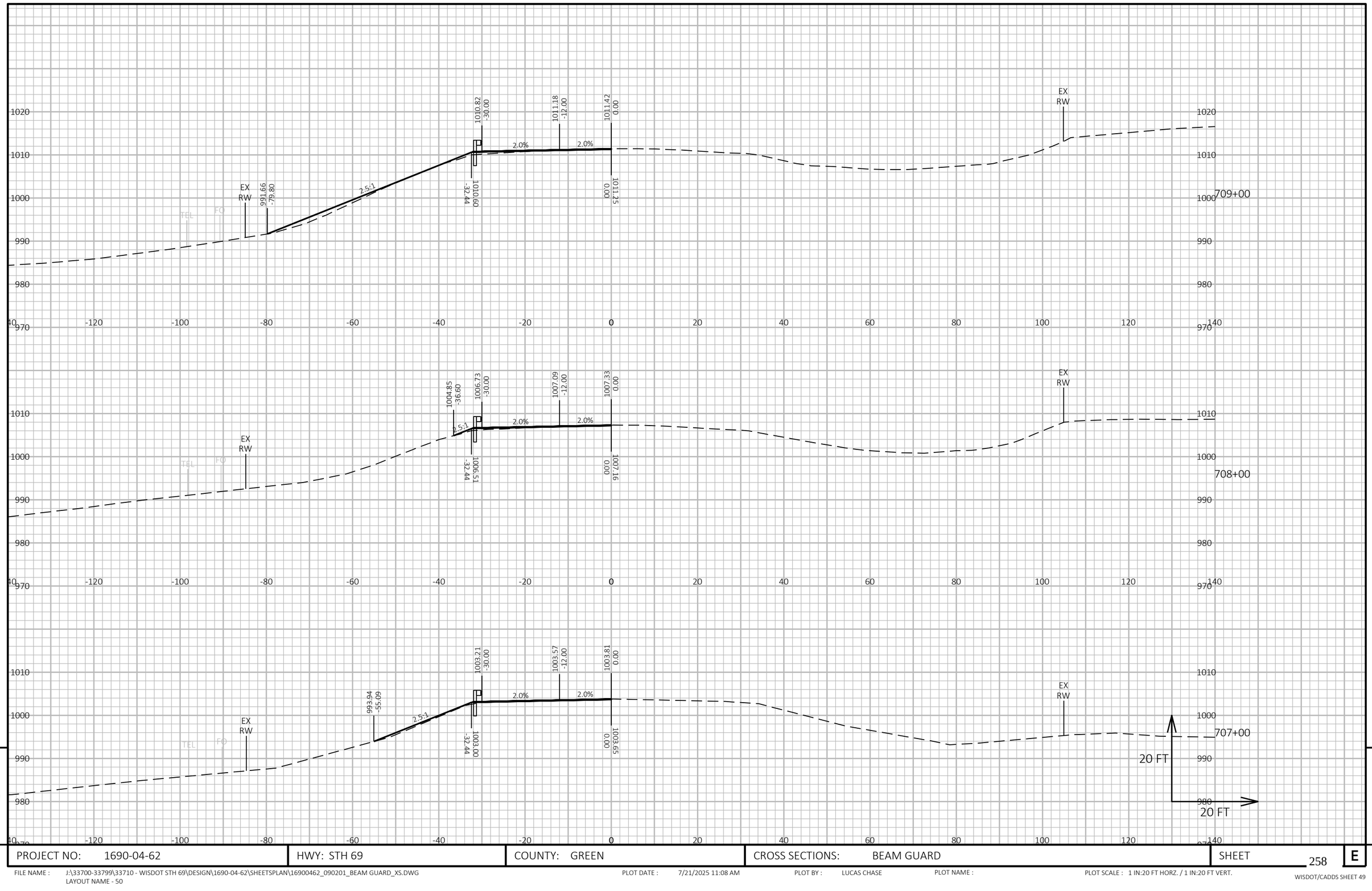


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 257 E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 49

PLOT DATE : 7/21/2025 11:07 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

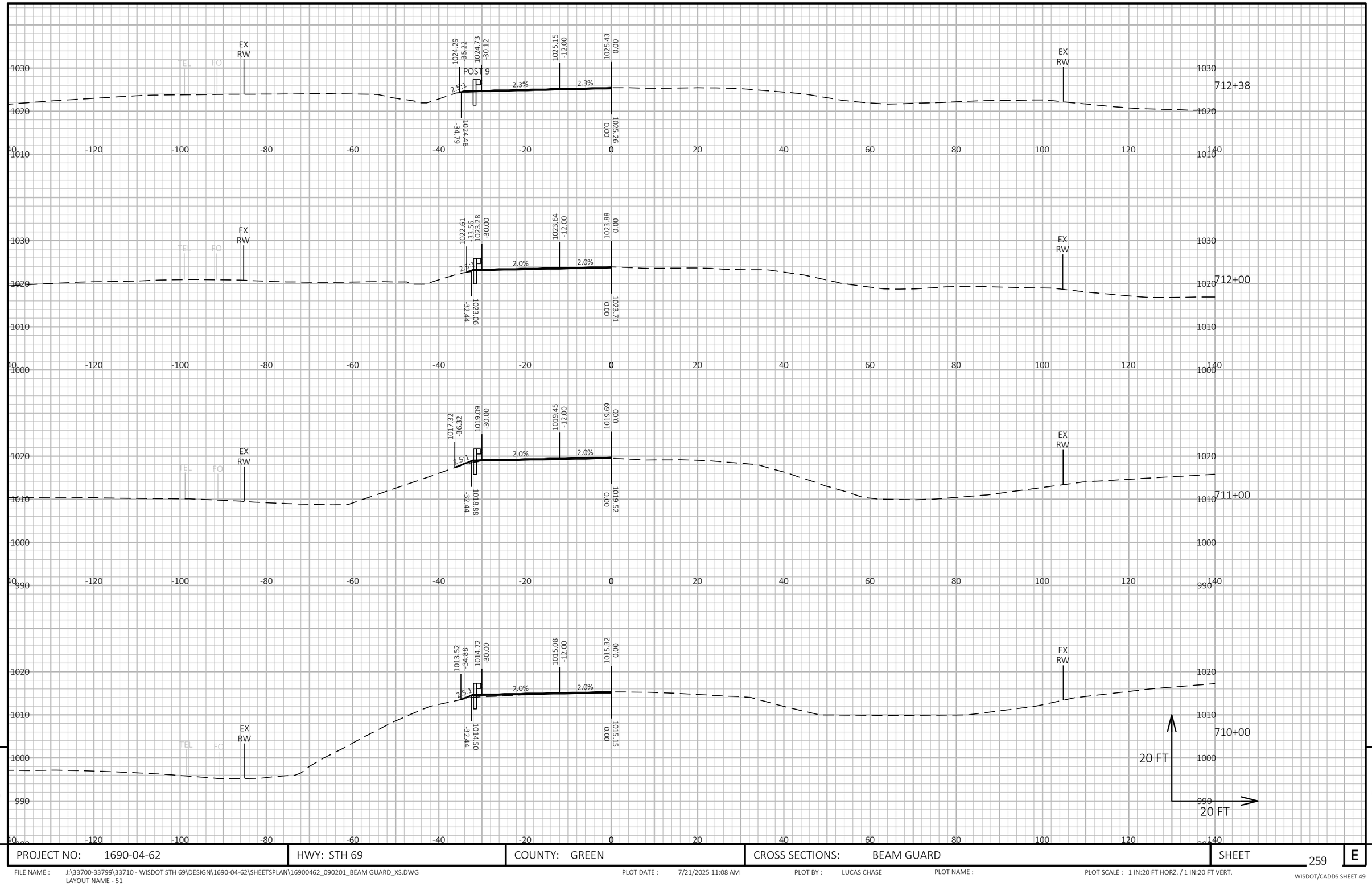
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 258	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 50

PLOT DATE : 7/21/2025 11:08 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

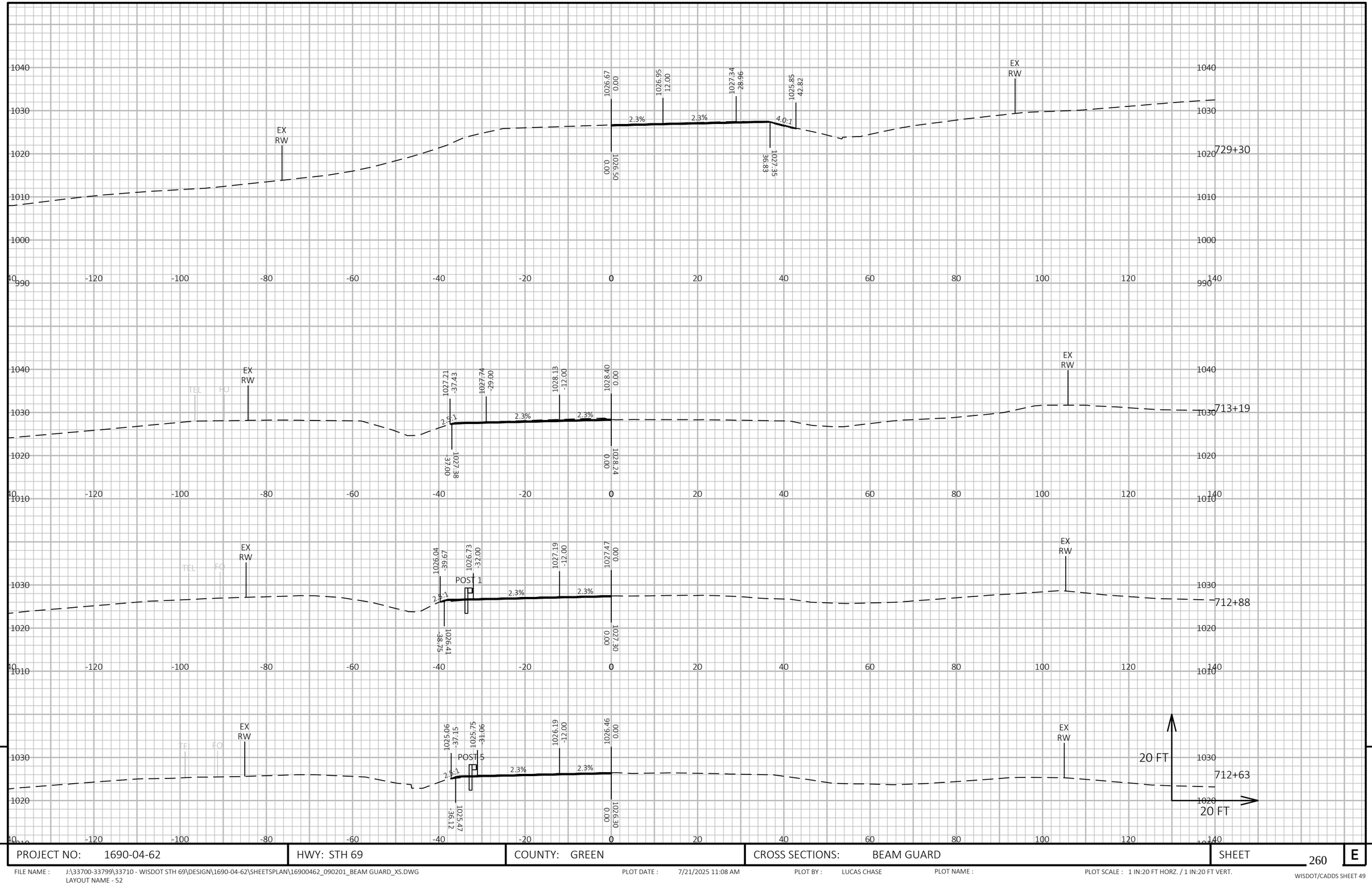


PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 259	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 51

PLOT DATE : 7/21/2025 11:08 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

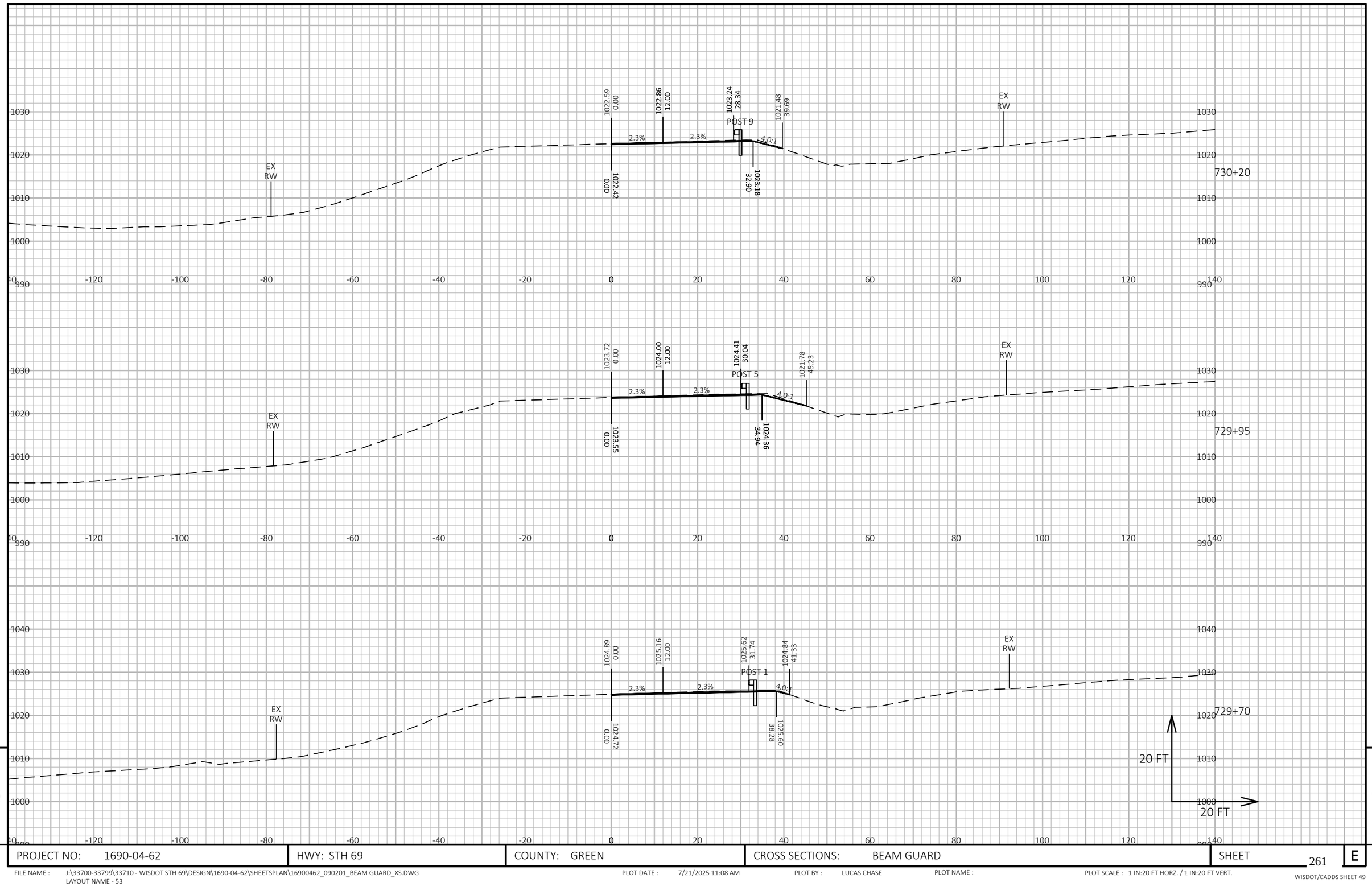
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 260	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 52

PLOT DATE : 7/21/2025 11:08 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



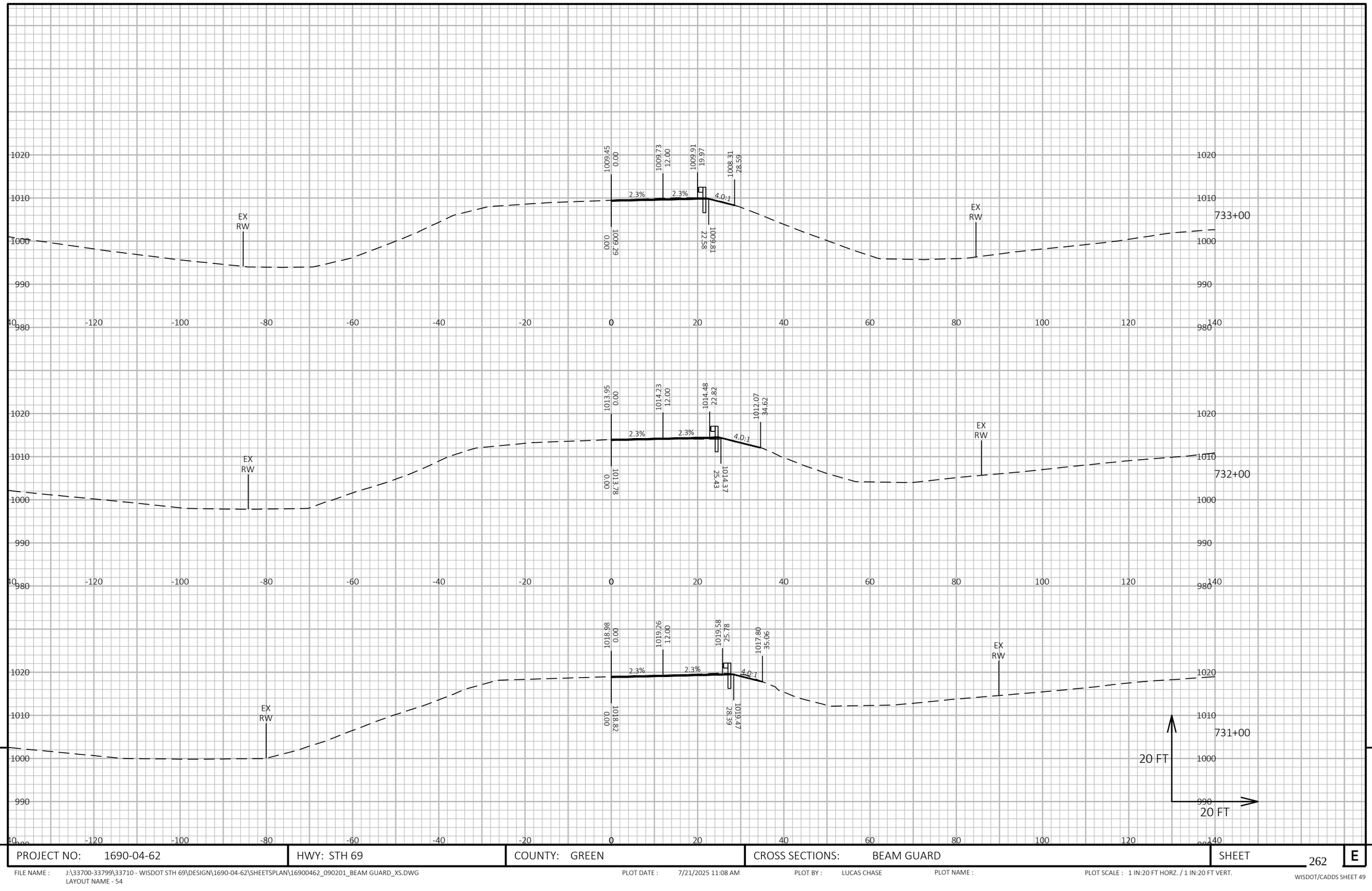
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9

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 261	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 53

PLOT DATE : 7/21/2025 11:08 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

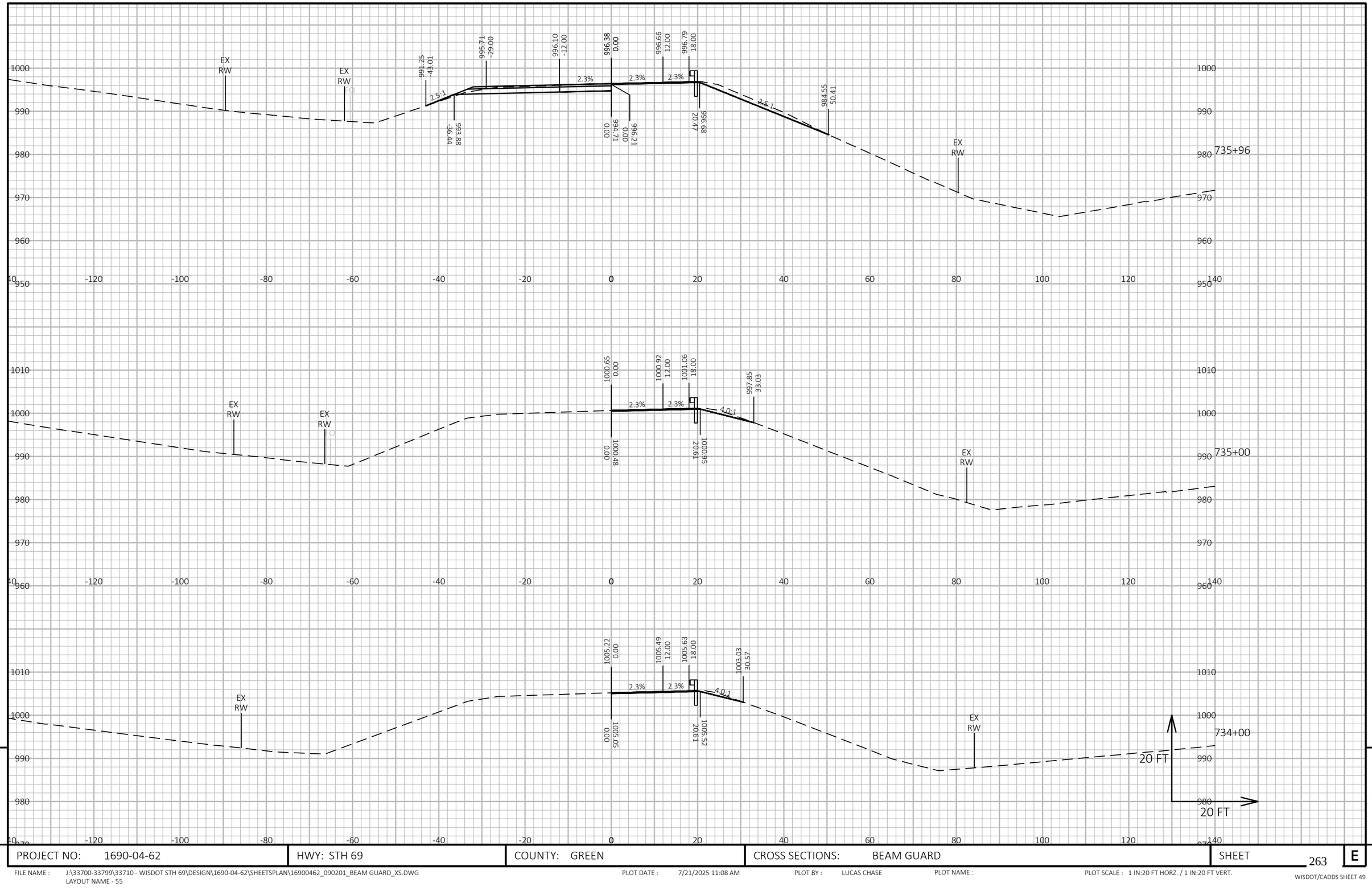
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 262	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 54

PLOT DATE : 7/21/2025 11:08 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



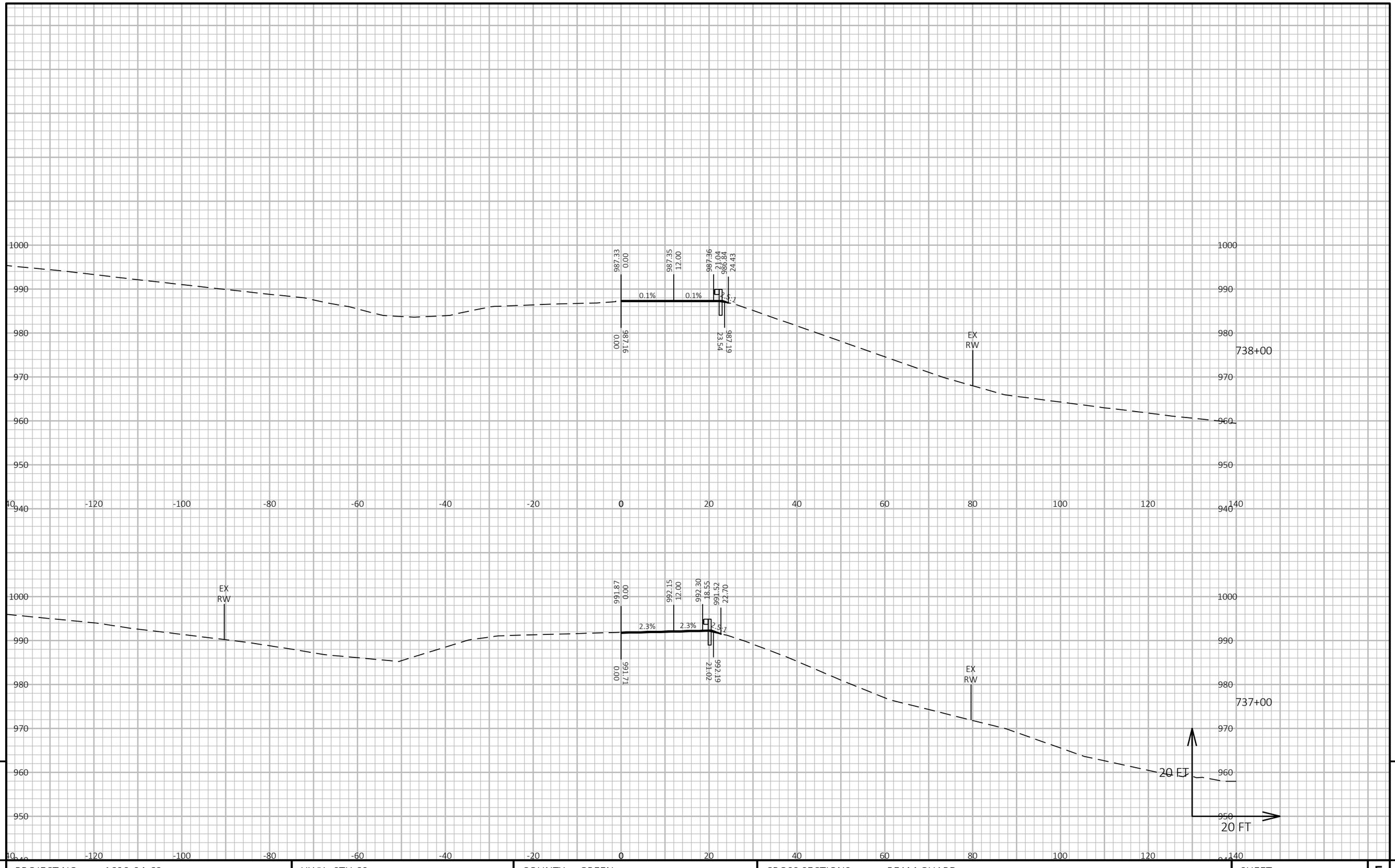
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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 263	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 55

PLOT DATE : 7/21/2025 11:08 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



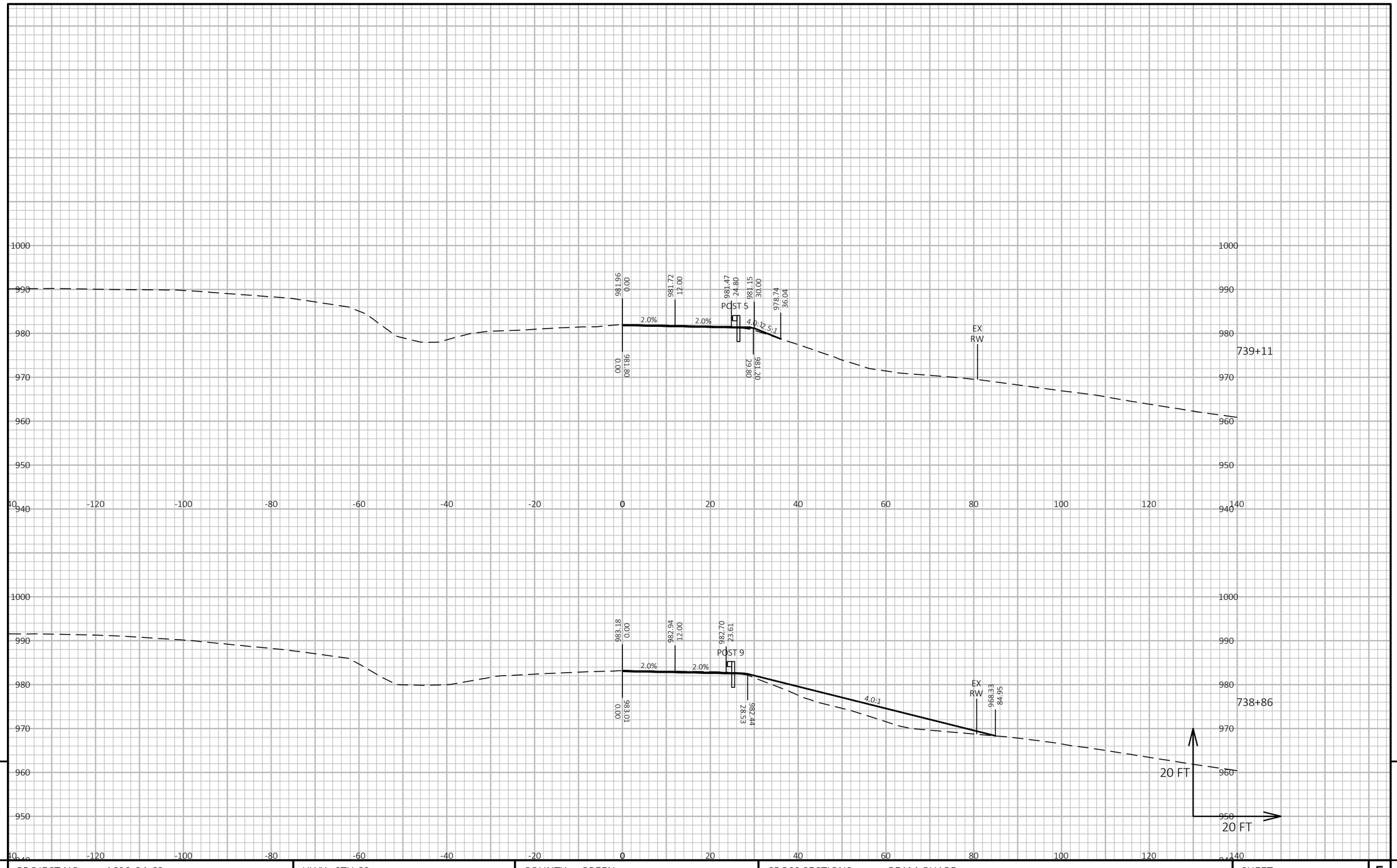
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9

PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 264	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 56

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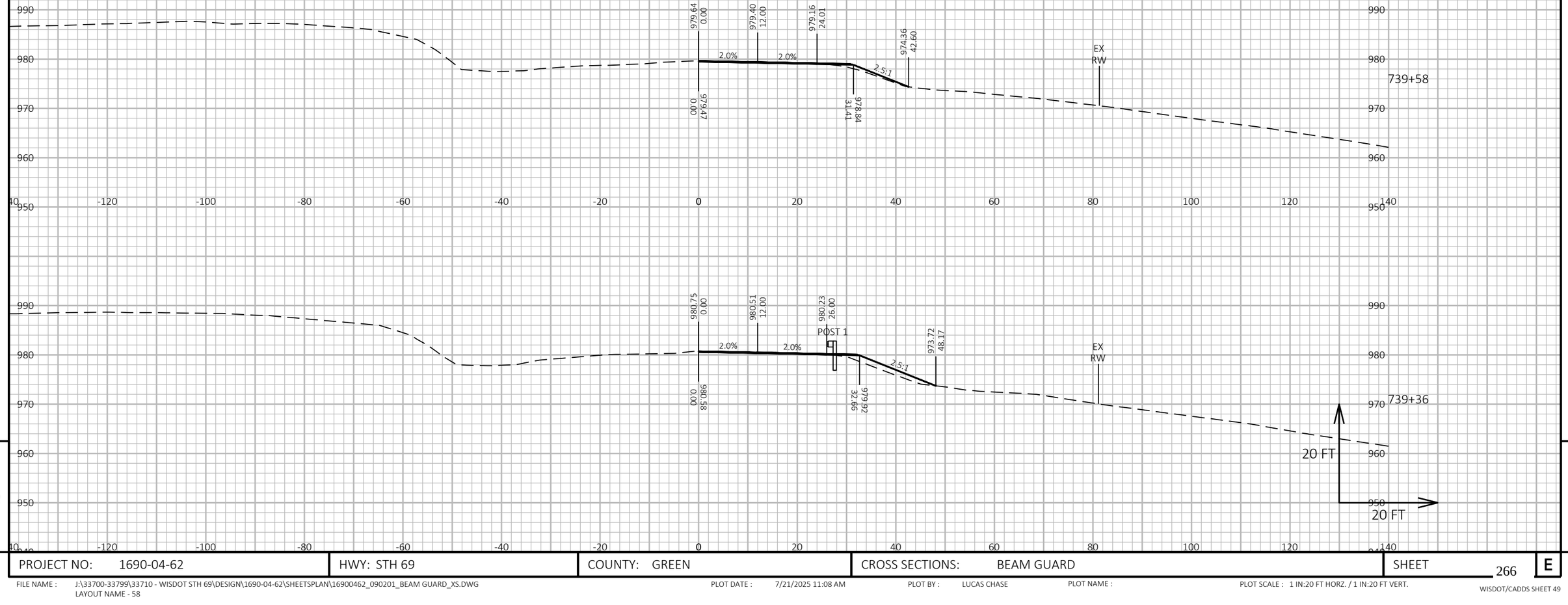


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PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 265	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 57
PLOT DATE : 7/21/2025 11:08 AM
PLOT BY : LUCAS CHASE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-62	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: BEAM GUARD	SHEET 266	E

FILE NAME : J:\33700-33799\33710 - WISDOT STH 69\DESIGN\1690-04-62\SHEETSPLAN\16900462_090201_BEAM GUARD_XS.DWG
LAYOUT NAME - 58

PLOT DATE : 7/21/2025 11:08 AM PLOT BY : LUCAS CHASE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

MAD

PROJECT ID: 1690-04-73

WITH: 1690-04-62

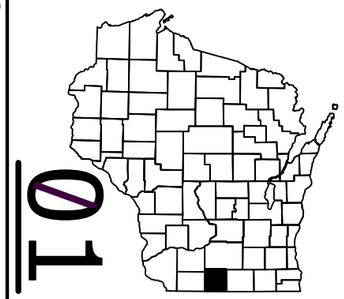
COUNTY: GREEN

NOVEMBER 2025

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
~~Section No.~~	~~4~~	~~Right of Way Plat~~
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 460



N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MONROE - NEW GLARUS

WITTENWYLER RD & CTH C INTERSECTIONS

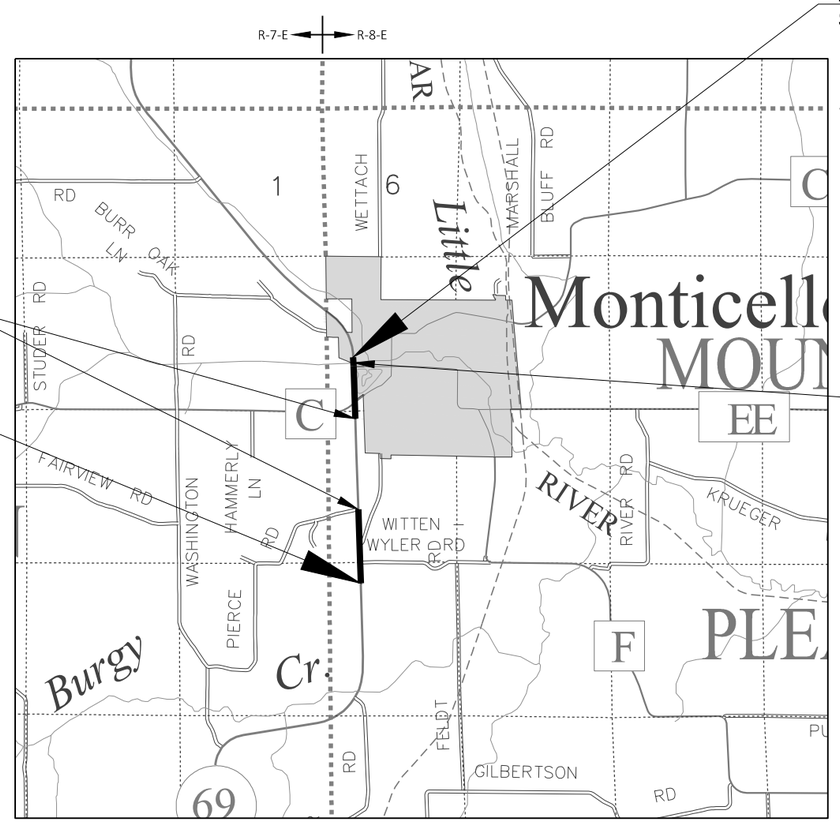
STH 69

GREEN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1690-04-73	WISC 2026029	1

STATE PROJECT NUMBER

1690-04-73



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.939

DESIGN DESIGNATION 1690-04-03

A.A.D.T.	(2026)	=	6900
A.A.D.T.	(2046)	=	7600
D.H.V.		=	7.7
D.D.		=	61/39
T.		=	9.9%
DESIGN SPEED		=	55 MPH
ESALS		=	2,700,000 CONCRETE, 2,000,000 HMA

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), GREEN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18-WI

ORIGINAL PLANS PREPARED BY

PEOPLE WHO CARE,
CREATING QUALITY TRANSPORTATION
TODAY AND TOMORROW

WISDOT SOUTHWEST REGION - MADISON OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	BATTERMAN
Designer	ANTHONY JOHNSON, P.E.
Project Manager	CODY KAMMERZELT, P.E.
Regional Examiner	SW REGION
Regional Supervisor	JENNIFER KOBRYN, P.E.

APPROVED FOR THE DEPARTMENT

DATE: Digitally signed by Cody Kammerzelt Date: 2025.09.17 13:05:56-05'00' (Signature)

E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\010101-TI.DWG PLOT DATE : 9/17/2025 12:52 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME :

UTILITIES CONTACTS

ALLIANT ENERGY
ELECTRICITY
JOSH STRUTZ
520 COMMERCE DRIVE
BARABOO, WI 53913
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EMAIL: JOSHUASTRUTZ@ALLIANTENERGY.COM

ATC MANAGEMENT, INC
ELECTRICITY - TRANSMISSION
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COTTAGE GROVE, WI 53527
PHONE: (920) 877-7650
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UTELCO LLC D/B/A TDS TELECOM
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EMAIL: BRIAN.GROSSEN@TDS.NET

VILLAGE OF MONTICELLO
WATER
BRIAN GROSSEN
238 N. MAIN STREET
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EMAIL: BRIAN.GROSSEN@TDS.NET

WE ENERGIES
GAS/PETROLEUM
JIM BIELINSKI
S13W33800 STH 18
DELAFIELD, WI 53018
PHONE: (262) 365-6447
EMAIL: JIM.BIELINKSI@WE-ENERGIES.COM

WISCONSIN DNR LIAISON

ANDY BARTA
SOUTH CENTRAL REGION
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: (608) 235-2955
EMAIL: ANDREW.BARTA@WISCONSIN.GOV

REGION SURVEY COORDINATOR

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MADISON, WI 53704
PHONE: (608) 246-7918
EMAIL: JAROD.ALVAREZ@DOT.WI.GOV

VILLAGE OF MONTICELLO

KEVIN KOMPROOD
PUBLIC WORKS DIRECTOR
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MONTICELLO, WI 53570
PHONE: (608) 558-5461
EMAIL: MONTICELLOWATERUTIL@TDS.NET

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DESIGN PROJECT LEADER

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MADISON, WI 53704
PHONE: (608) 246-3884
EMAIL: ANTHONYR.JOHNSON@DOT.WI.GOV

COUNTY HIGHWAY COMMISSIONER

CHRIS NARVESON
GREEN COUNTY
P.O. BOX 259
MONROE, WI 53566
PHONE: (608) 328-9411
EMAIL: CHRIS.NARVESON@GREENCOUNTYWI.ORG

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN DRIVEWAY PIPE LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAY SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER PIPE IN DRIVEWAY AREA IS INSTALLED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

EXISTING SHOULDER AGGREGATE SHALL BE INCORPORATED INTO THE NEW SHOULDERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN THE FIELD

APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO THE MILLED SURFACE AND AT A RATE OF 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.

ALL RADII ARE MEASURED TO THE EDGE IF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS, ARE AT SUGGESTED LOCATIONS. THE ENGINEER SHALL DETERMINE THE EXACT LOCATION OF EROSION CONTROL ITEMS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AT THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. THE CONTRACTOR SHALL REMOVE ITEMS AT THE ENGINEERS DISCRETION.

PLACE EROSION CONTROL DEVICES IN SEQUENCE WITH CONSTRUCTION OPERATIONS AND MAINTAIN AS DETERMINED BY THE ENGINEER.

ADJUST THE NUMBER, LOCATION, AND SPACING OF TRAFFIC CONTROL SIGNS AND DEVICES, AS SHOWN ON THE PLANS, TO FIT FIELD CONDITIONS.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIPTURF:	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPETURF:			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

TOTAL PROJECT AREA = 29.37 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 10.51 ACRES

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL SHEETS
PLAN DETAILS
CURB RAMPS
PAVING GRADES
CROSS SECTION MATCHLINES
EROSION CONTROL
STORM SEWER
EXISTING SIGN REMOVALS
PERMANENT SIGNING
LIGHTING
PAVEMENT MARKING
TRAFFIC CONTROL AND CONSTRUCTION STAGING
ALIGNMENT DETAILS
CONTROL POINTS

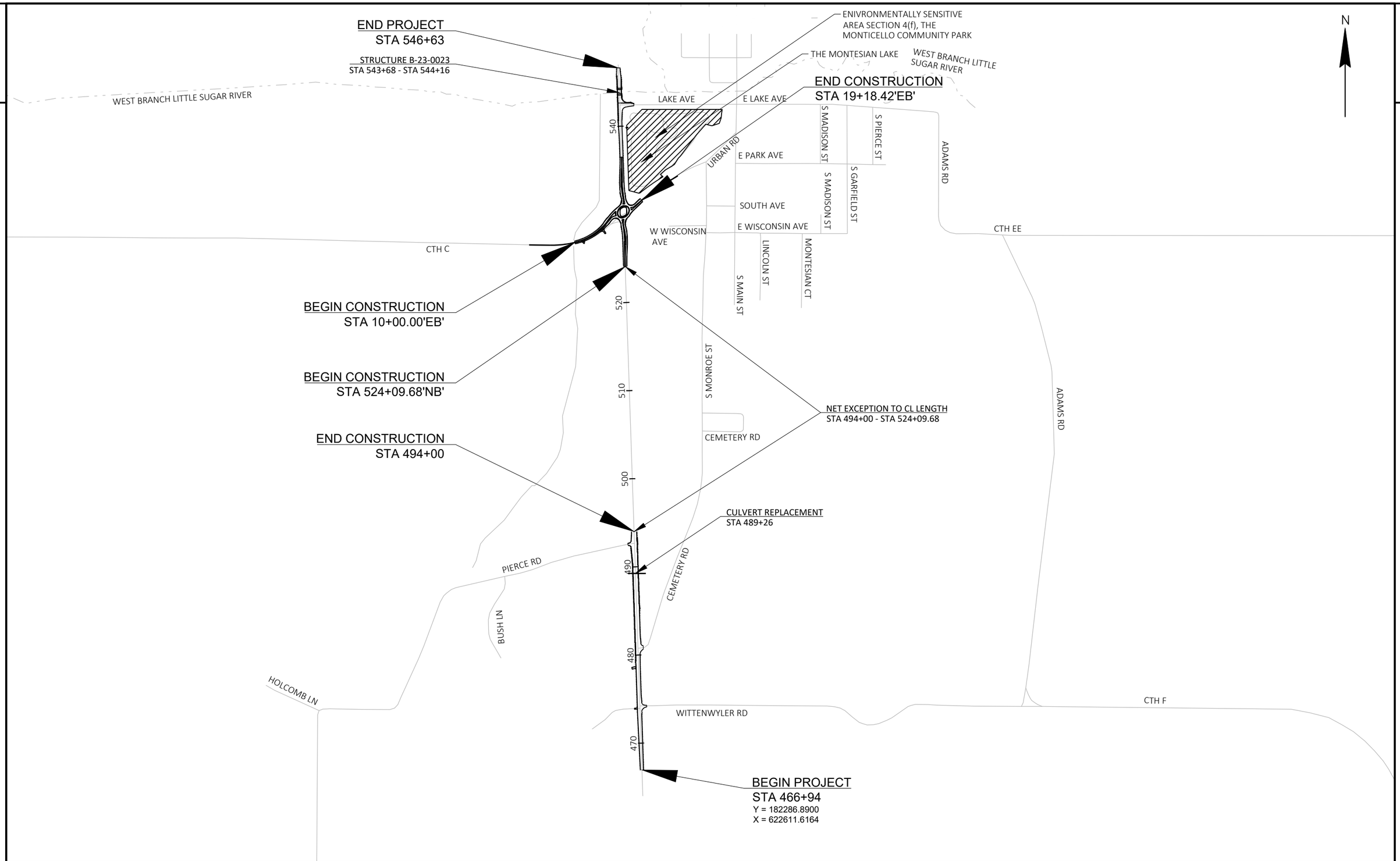
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STH 69 BORING LOG DATA

(FOR INFORMATION ONLY)

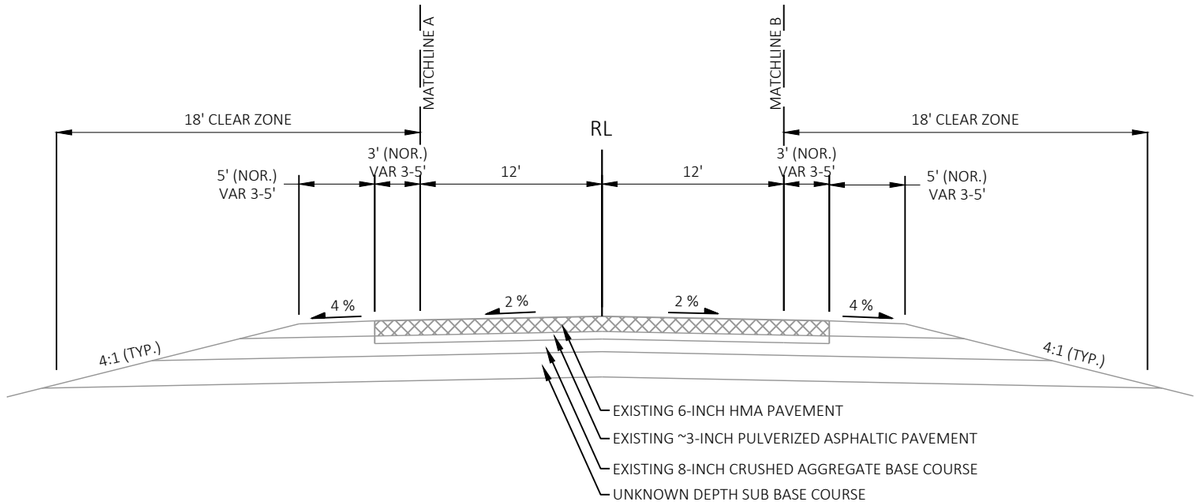
BORE	EL	STA	OFFSET	HMA OVER BASE (INCHES)	LAYER 2	LAYER 3	TOTAL BLOWS N
1	N/A	474+44	14' LT	6 3/4" OVER 3" RECYLCED HMA, OVER 12"	2' SAND, F-M, TAN, SOME GRAVEL, LITTLE SILT	CLAY, GRAY, SOFT, UNCONFINED STRENGTH = 1.25	15 4
2	N/A	528+64	SW QUAD	6" TOPSOIL OVER 20"	8' SAND, F-M, RED/TAN, LITTLE GRAVEL VERY DENSE		121/.8 60/.3
3	N/A	529+57	SE QUAD	8" TOPSOIL OVER 12"	5' SAND, F-M, LITTLE GRAVEL, VERY DENSE	ROCK CORE, RQD = 0.2	60/.2

ABREVIATIONS:
RQD = ROCK QUALITY DESIGNATION (PERCENT)
F-M-C = GRAIN SIZE: FINE, MEDIUM, COARSE



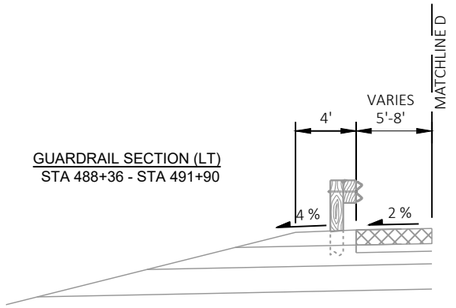
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\020201-PO.DWG
LAYOUT NAME - 020201-po
PLOT DATE : 5/22/2025 12:30 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42

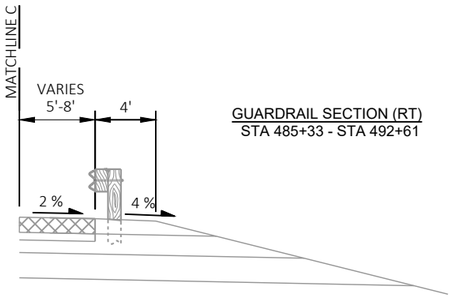


EXISTING TYPICAL SECTION

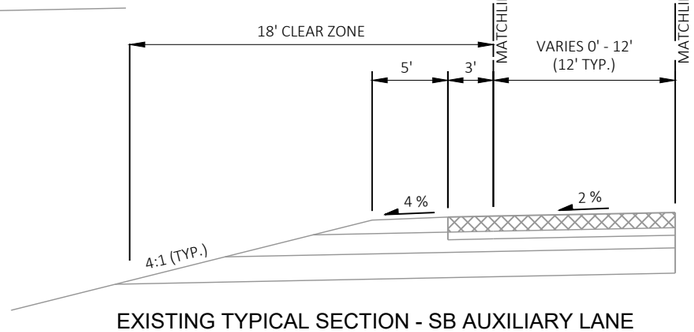
STA 466+94 - 494+00
STA 524+09.68 - 546+63



GUARDRAIL SECTION (LT)
STA 488+36 - STA 491+90

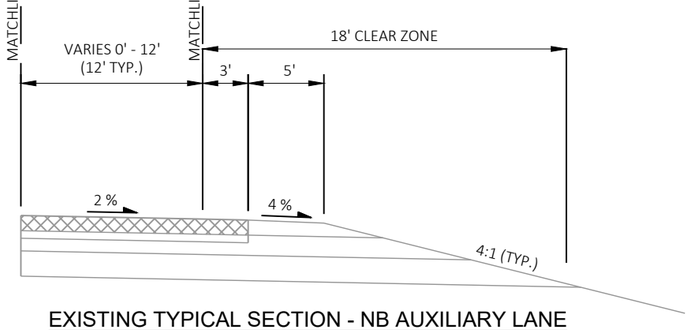


GUARDRAIL SECTION (RT)
STA 485+33 - STA 492+61



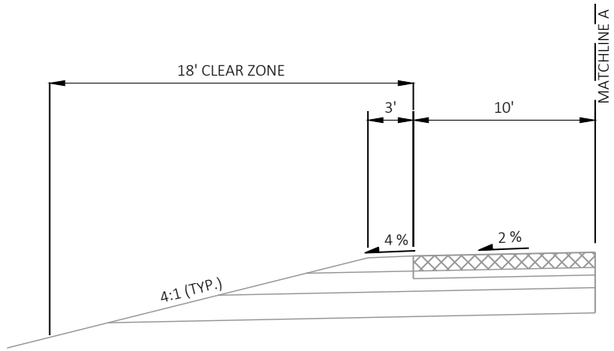
EXISTING TYPICAL SECTION - SB AUXILIARY LANE

STA 486+16 - 488+36



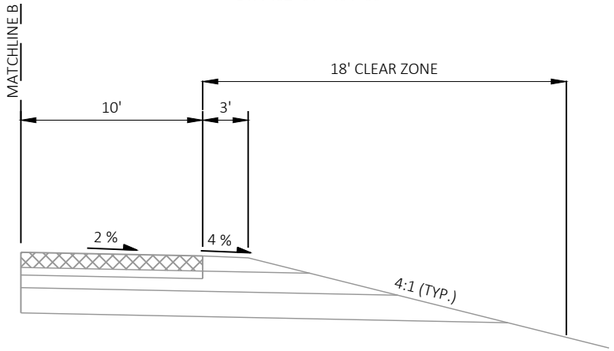
EXISTING TYPICAL SECTION - NB AUXILIARY LANE

STA 481+31 - 485+33
STA 492+61 - 494+00



EXISTING TYPICAL SECTION - SB RIGHT TURN LANE

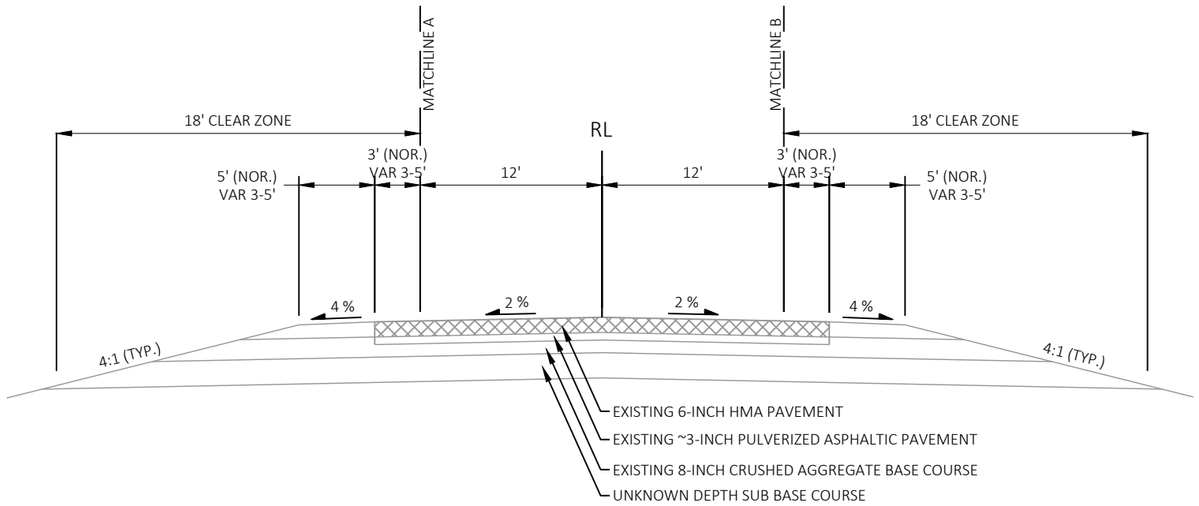
STA 530+44 - 535+62



EXISTING TYPICAL SECTION - NB RIGHT TURN LANE

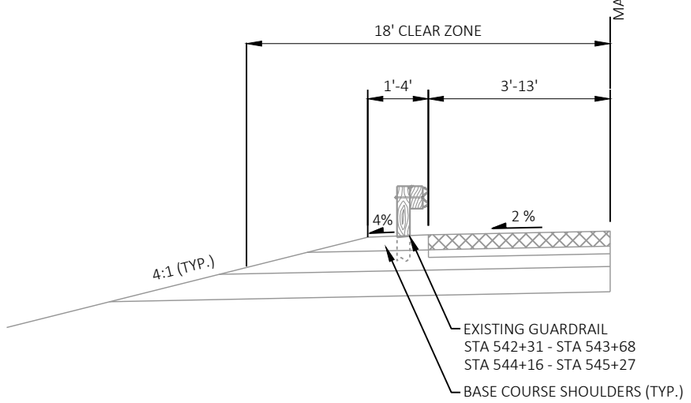
STA 524+24 - 529+46

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING TYPICAL SECTIONS	SHEET 5	E



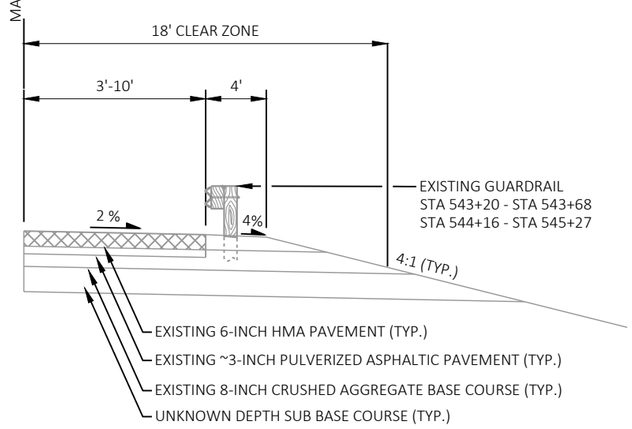
EXISTING TYPICAL SECTION

STA 466+94 - 494+00
STA 524+09.68 - 546+63



EXISTING TYPICAL SECTION

STA 538+15 - 543+68
STA 544+16 - 545+69

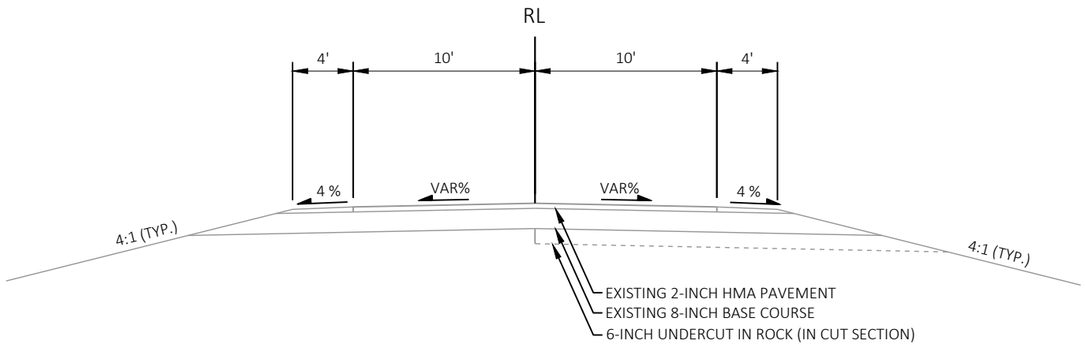


EXISTING TYPICAL SECTION

STA 540+70 - 543+68
STA 544+16 - 545+69

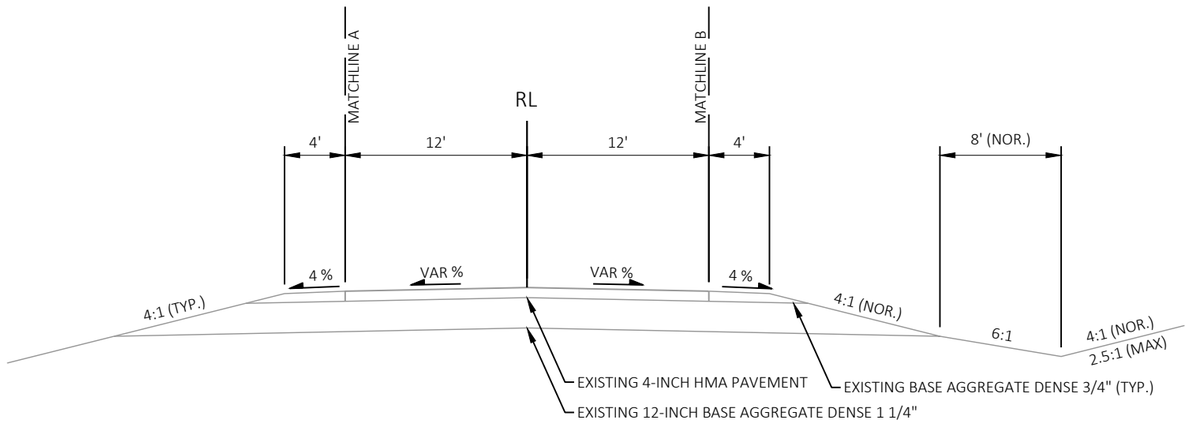
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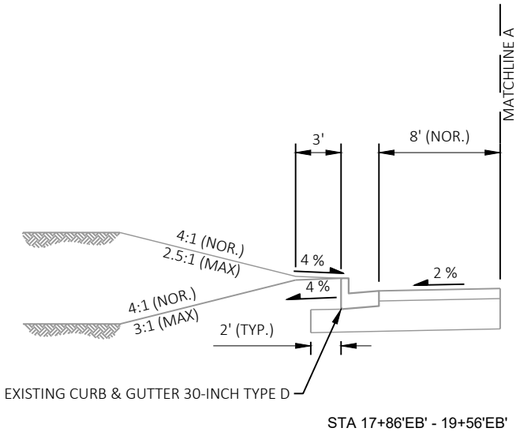
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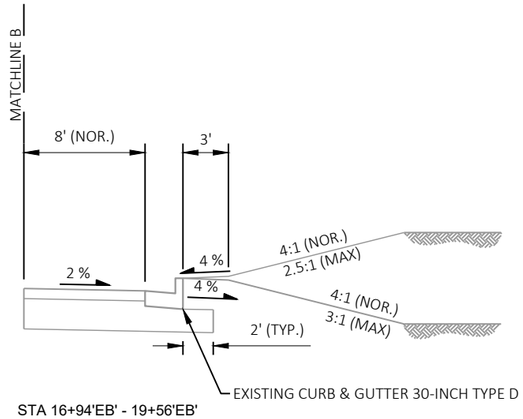
EXISTING TYPICAL SECTION CTH C

STA 10+00'EB' - STA 13+04'EB'





STA 17+86'EB' - 19+56'EB'



STA 16+94'EB' - 19+56'EB'

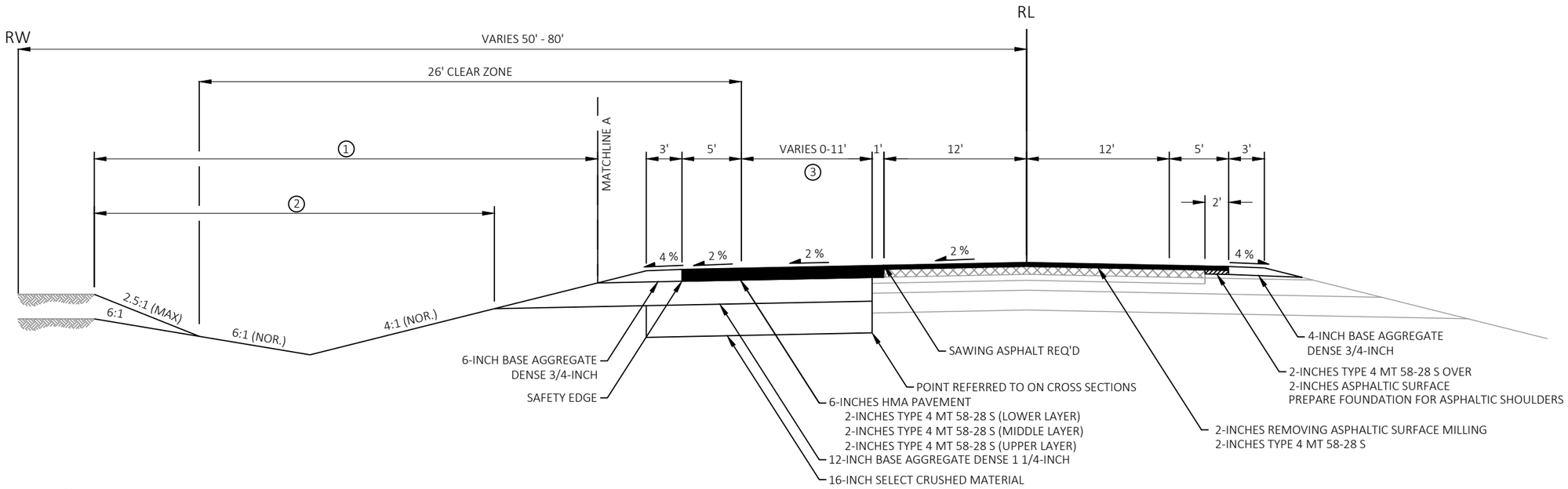
EXISTING TYPICAL SECTION CTH C

STA 13+04'EB' - STA 19+56'EB'

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING TYPICAL SECTIONS	SHEET 7	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\020301-TS.DWG
LAYOUT NAME - 020303-ts

PLOT DATE : 9/16/2025 2:11 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:10 FT

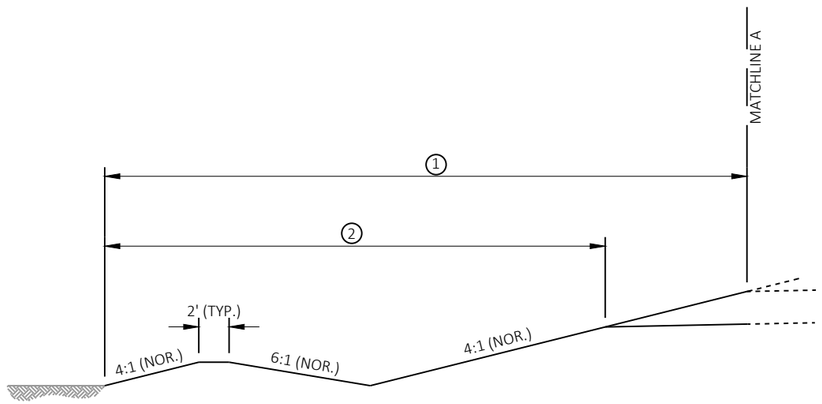


① SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B

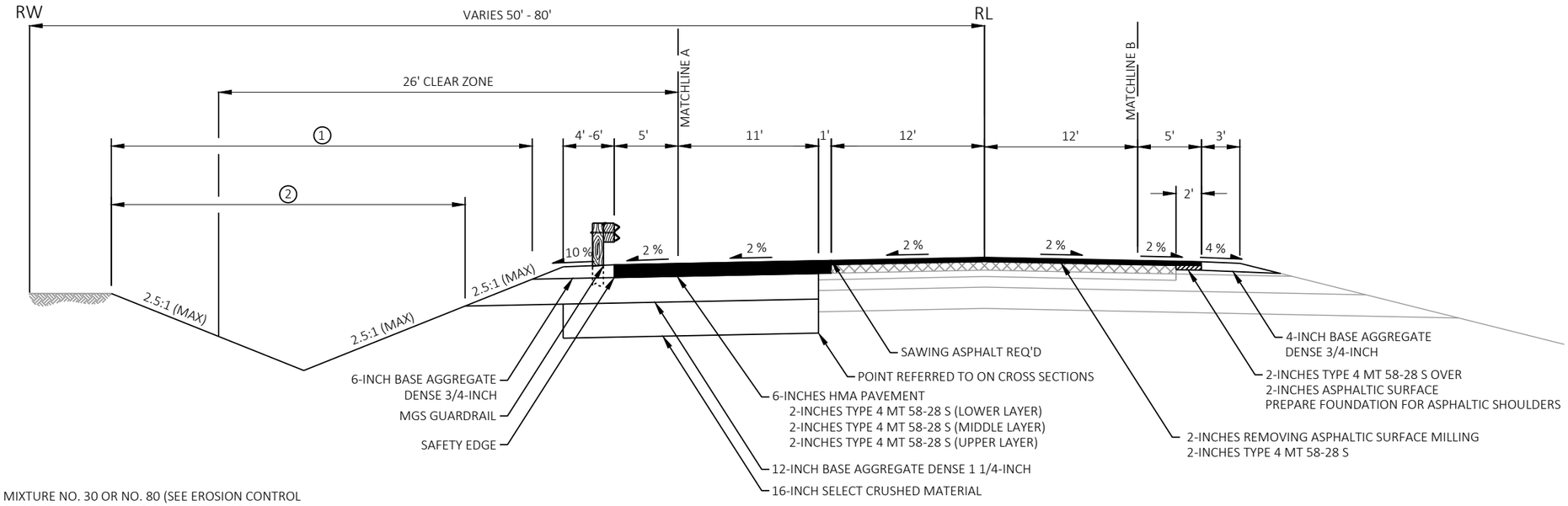
② SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B

③ 0' STA 466+94
11' STA 473+54
11' STA 478+88
0' STA 485+48

FINISHED TYPICAL SECTION STH 69
STA 466+94 - 479+28



BERM SECTION
STA 473+00 - 473+54

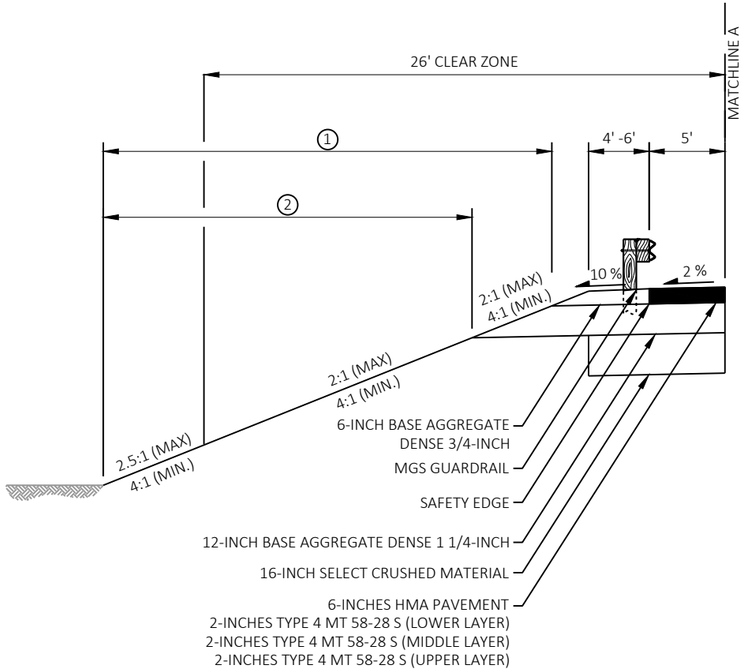


① SEEDING MIXTURE NO. 30 OR NO. 80 (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS) & FERTILIZER TYPE B

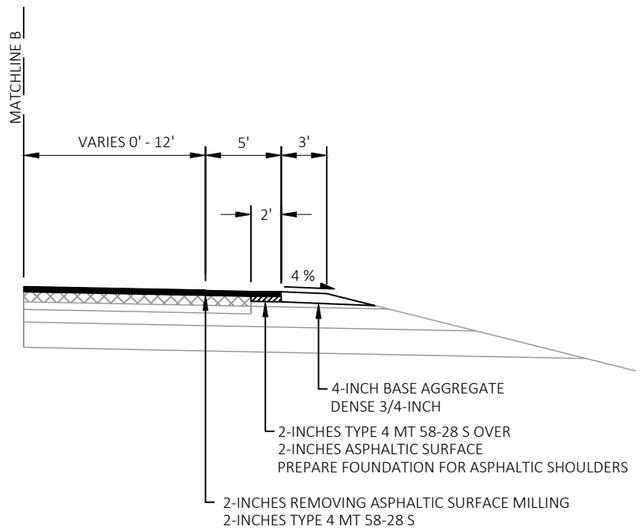
② SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B

FINISHED TYPICAL SECTION STH 69

STA 479+28 - 488+73



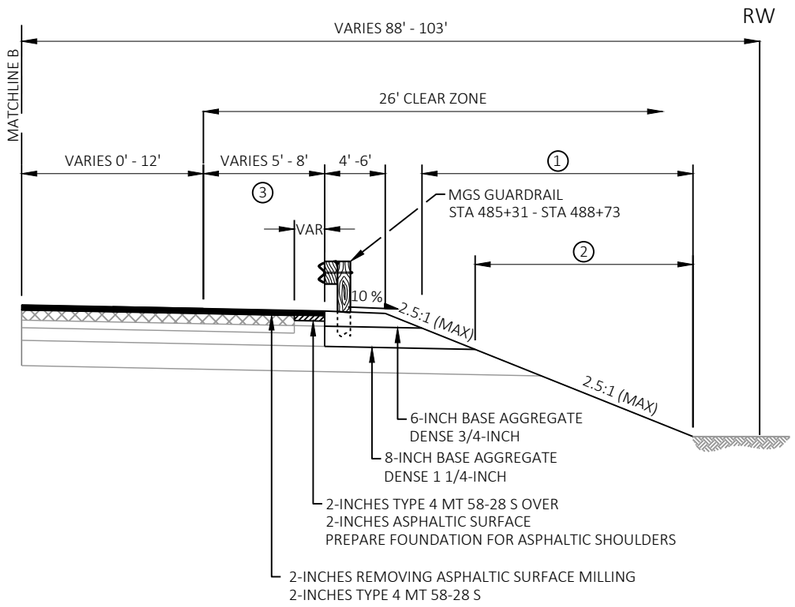
STA 488+50 - 488+73



FINISHED HALF TYPICAL SECTION - NB AUXILIARY LANE

STA 481+32 - 485+31

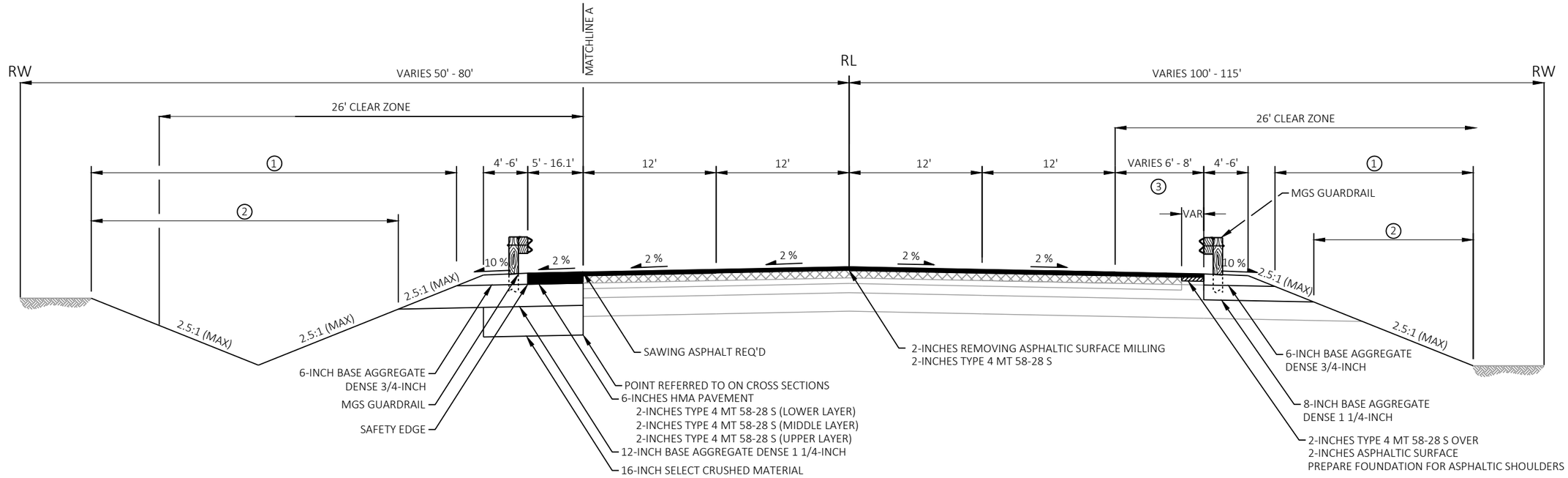
③ 5' STA 485+02
8' STA 485+31
6' STA 485+84



FINISHED GUARDRAIL SECTION - NB AUXILIARY LANE

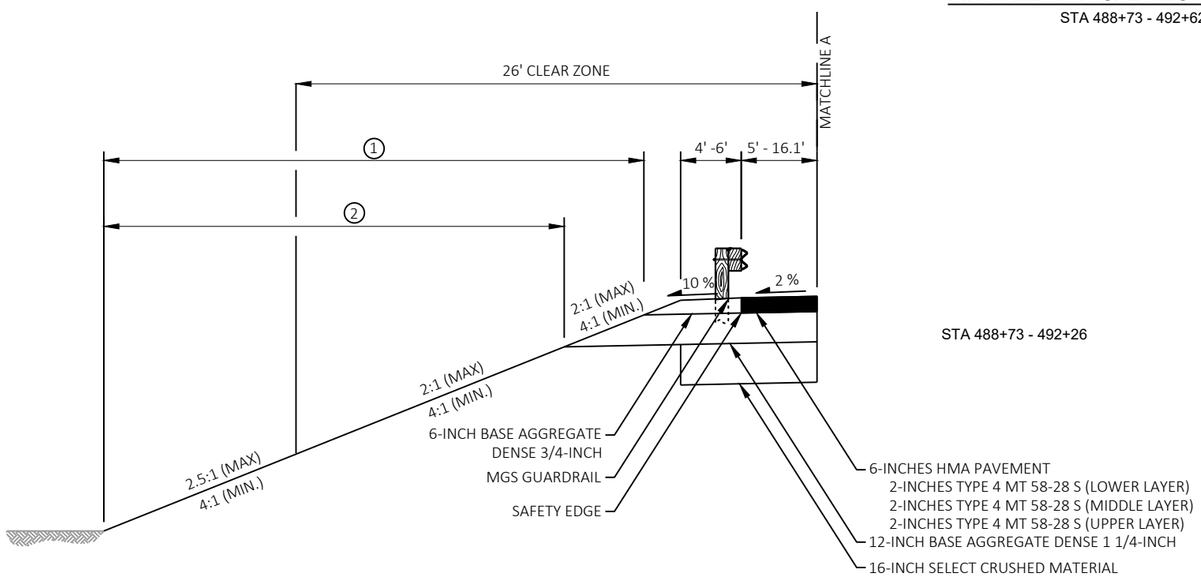
STA 485+02- 488+73

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	FINISHED TYPICAL SECTIONS	SHEET 9	E



FINISHED TYPICAL SECTION STH 69

STA 488+73 - 492+62



STA 488+73 - 492+26

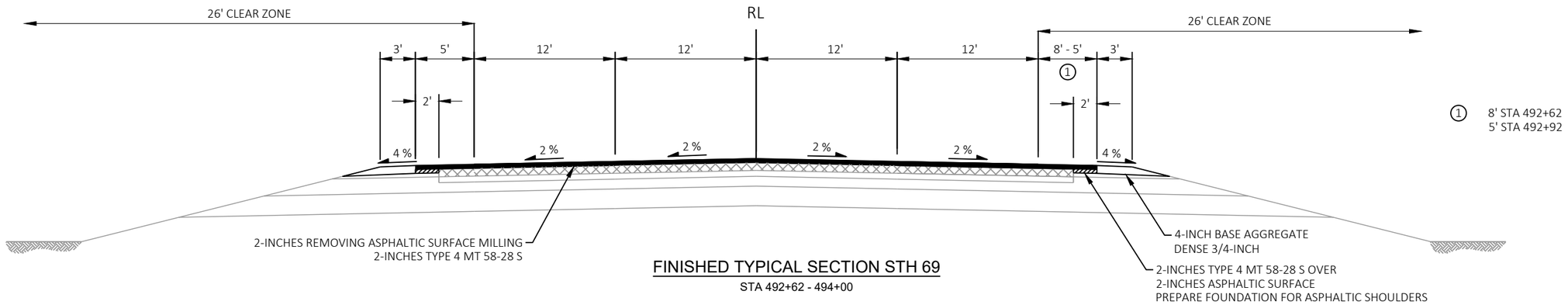
1. SEEDING MIXTURE NO. 30 OR NO. 80 (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS) & FERTILIZER TYPE B
2. SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B
3. 6' STA 488+73 - 492+09
   8' STA 492+62

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	FINISHED TYPICAL SECTIONS	SHEET 10	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\020301-TS.DWG
LAYOUT NAME - 020306-ts

PLOT DATE : 9/16/2025 2:11 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:10 FT

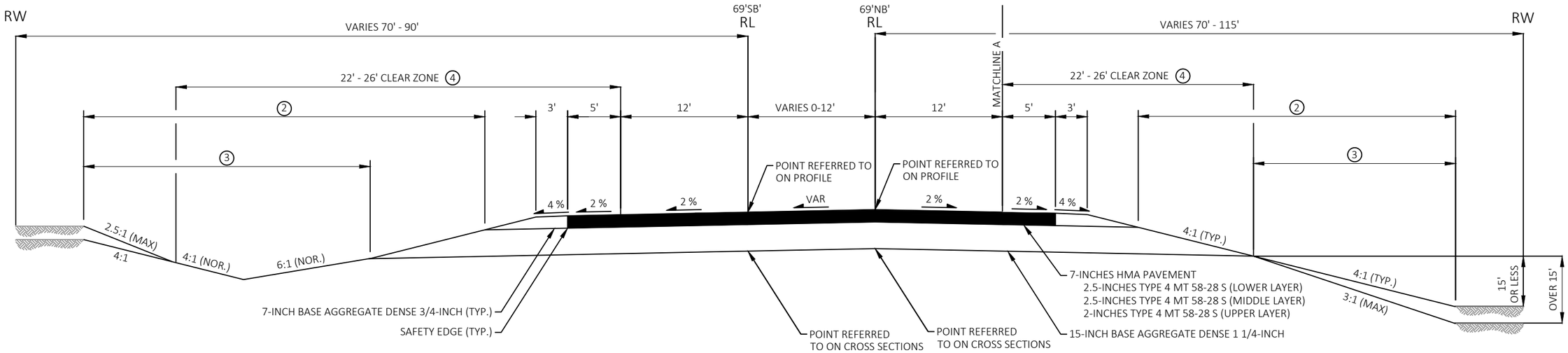
WISDOT/CADDS SHEET 42



① 8' STA 492+62
5' STA 492+92

FINISHED TYPICAL SECTION STH 69

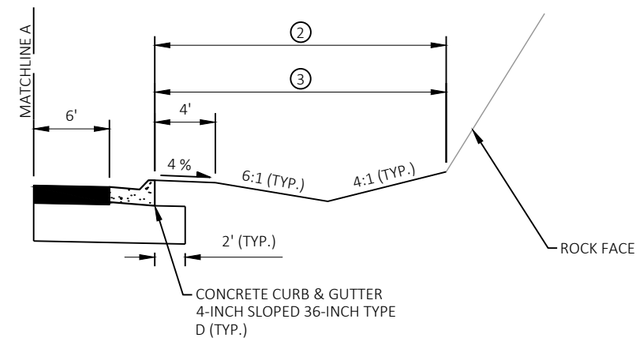
STA 492+62 - 494+00



② SEEDING MIXTURE NO. 30, NO. 80, OR NO. 95A (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS) & FERTILIZER TYPE B

③ SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B OR EROSION MAT URBAN CLASS 1, TYPE B OR MULCH (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS)

④ 22' CLEAR ZONE STA 524+09.68'NB' TO 529+48'NB'
22' CLEAR ZONE STA 524+09.68'SB' TO 529+43'SB'
26' CLEAR ZONE STA 531+16'NB' TO 536+49'NB'
26' CLEAR ZONE STA 531+10'SB' TO 536+49'SB'

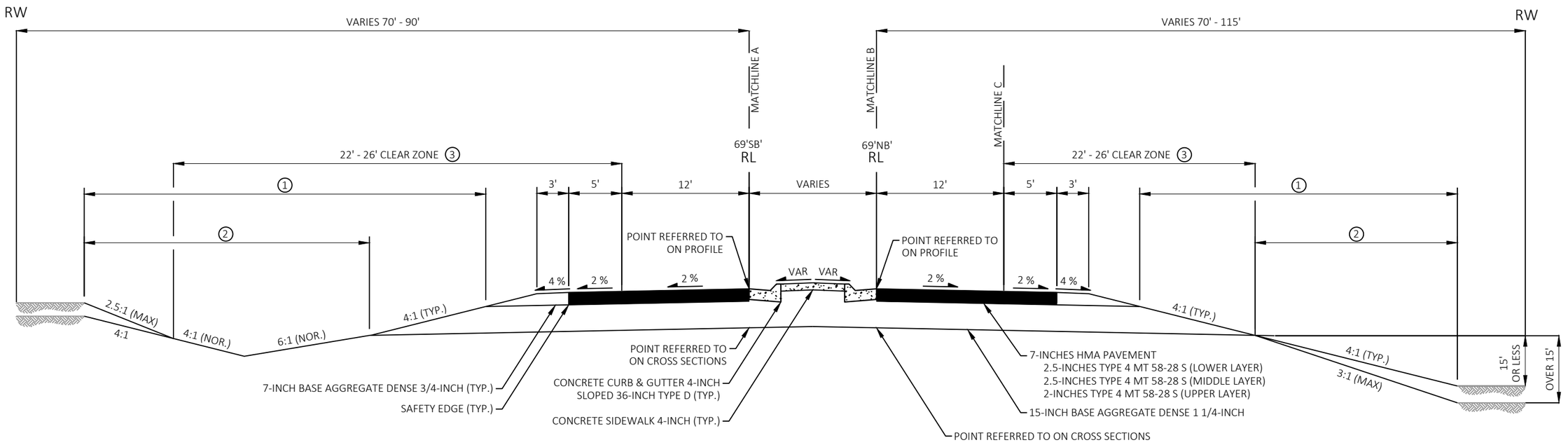


STA 524+20'NB' - 526+93'NB'

FINISHED TYPICAL SECTION STH 69

STA 524+09.68'NB' - 526+93'NB'
STA 524+09.68'SB' - 526+92'SB'
STA 533+66'NB' - 536+49'NB'
STA 533+66'SB' - 536+49'SB'

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	FINISHED TYPICAL SECTIONS	SHEET 11	E



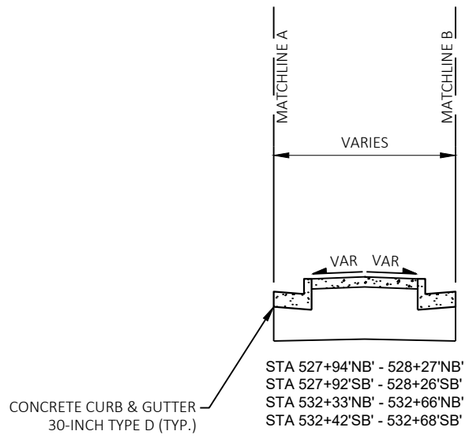
FINISHED TYPICAL SECTION STH 69

STA 526+93'NB' - 528+27'NB'
STA 526+92'SB' - 528+26'SB'
STA 532+33'NB' - 533+66'NB'
STA 532+42'SB' - 533+66'SB'

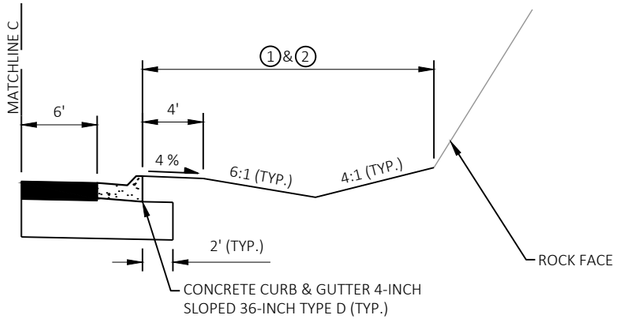
(1) SEEDING MIXTURE NO. 30, NO. 80, OR NO. 95A (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS) & FERTILIZER TYPE B

(2) SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B OR EROSION MAT URBAN CLASS 1, TYPE B OR MULCH (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS)

(3) 22' CLEAR ZONE STA 524+09.68'NB' TO 529+48'NB'
22' CLEAR ZONE STA 524+09.68'SB' TO 529+43'SB'
26' CLEAR ZONE STA 531+16'NB' TO 536+49'NB'
26' CLEAR ZONE STA 531+10'SB' TO 536+49'SB'



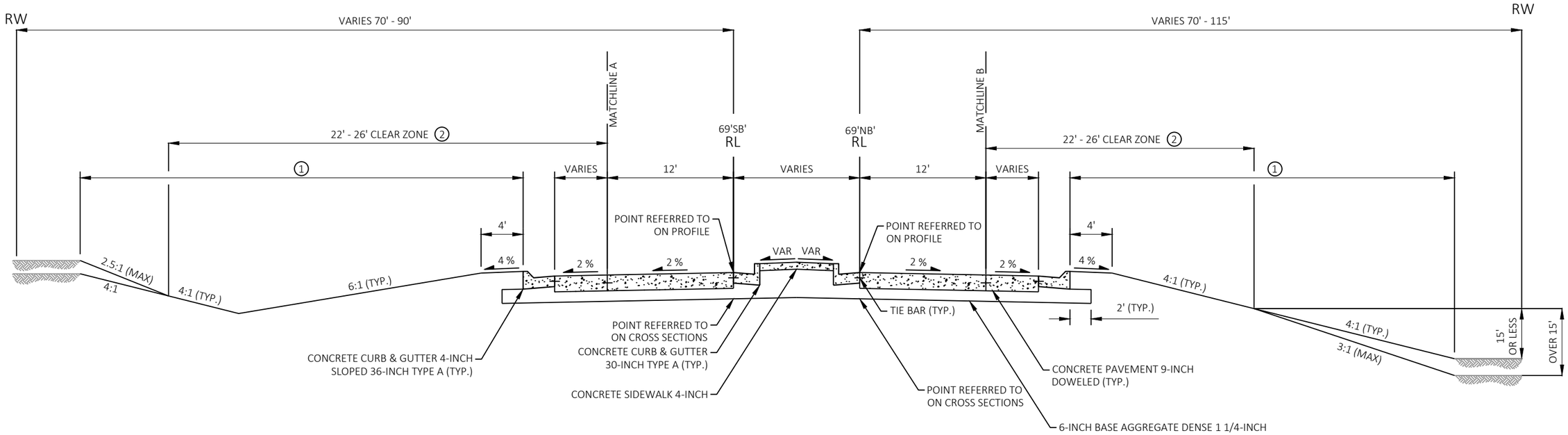
STA 527+94'NB' - 528+27'NB'
STA 527+92'SB' - 528+26'SB'
STA 532+33'NB' - 532+66'NB'
STA 532+42'SB' - 532+68'SB'

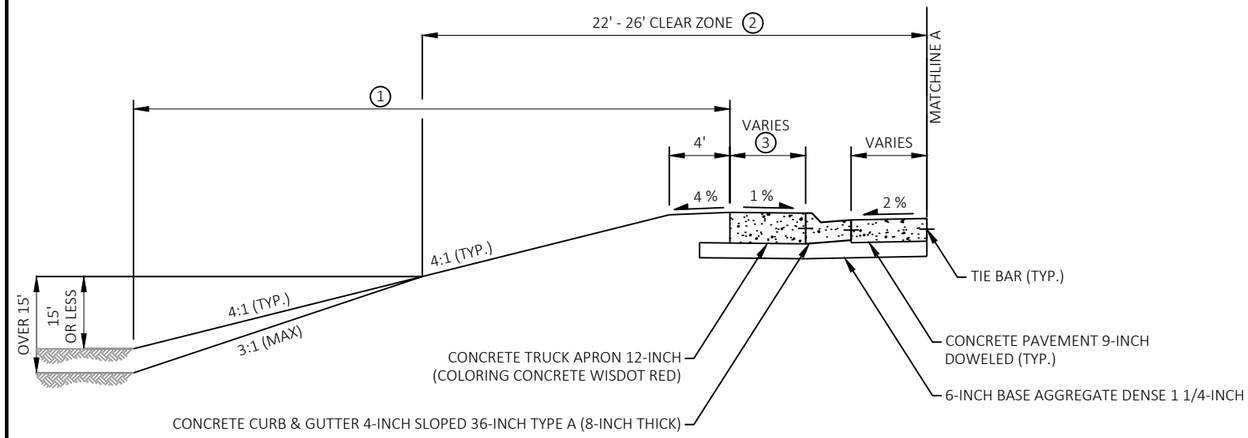


STA 526+93'NB' - 528+27'NB'

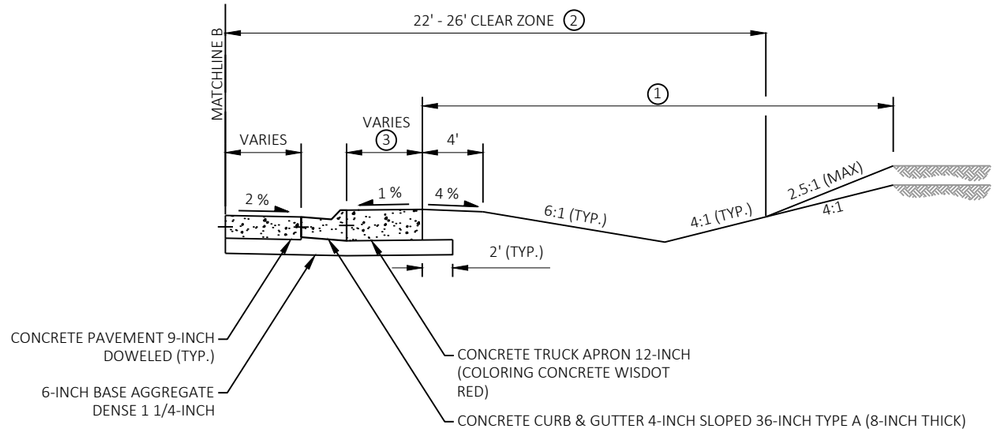
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	FINISHED TYPICAL SECTIONS	SHEET 12	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\020301-TS.DWG
LAYOUT NAME - 020308-ts
PLOT DATE : 9/16/2025 2:11 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:10 FT





STA 531+10'SB' - 531+76'SB'



STA 528+83'NB' - 529+48'NB'

FINISHED TYPICAL SECTION STH 69

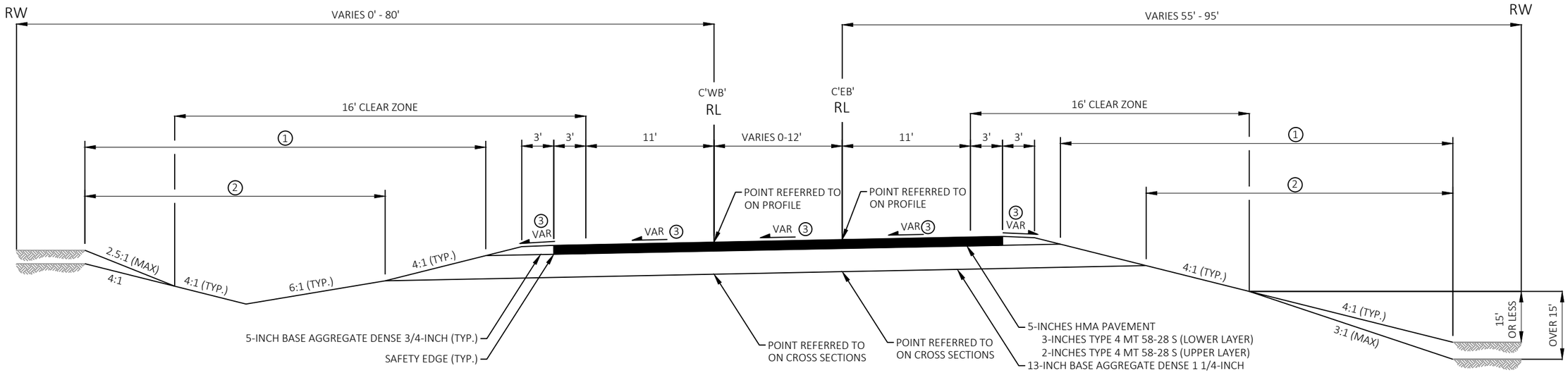
STA 528+27'NB' - 529+48'NB'
STA 528+26'SB' - 529+43'SB'
STA 531+16'NB' - 532+33'NB'
STA 531+10'SB' - 532+42'SB'

(1) SALVAGED TOPSOIL, SEEDING MIXTURE NO. 30, NO. 80, OR N0. 95A, FERTILIZER TYPE B, & EROSION MAT CLASS 1, TYPE B OR EROSION MAT URBAN CLASS 1, TYPE B OR MULCH (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS)

(2) 22' CLEAR ZONE STA 524+10'NB' TO 529+48'NB'
22' CLEAR ZONE STA 524+10'SB' TO 529+43'SB'
26' CLEAR ZONE STA 531+16'NB' TO 536+49'NB'
26' CLEAR ZONE STA 531+10'SB' TO 536+49'SB'

(3) SEE PLAN DETAILS FOR OVERTRACKING PAD LOCATIONS

2



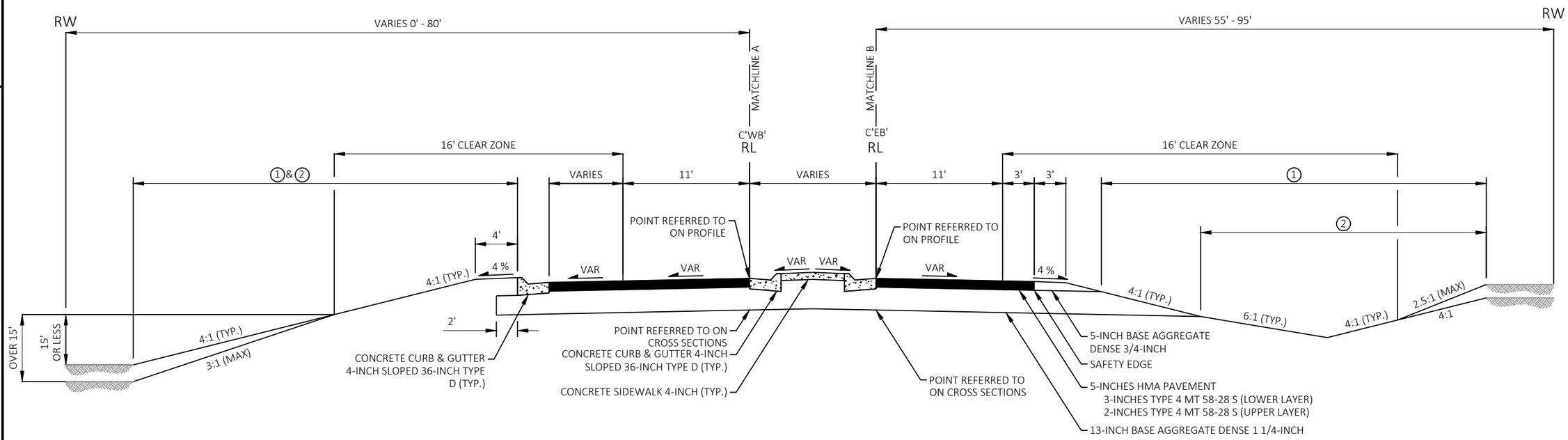
FINISHED TYPICAL SECTION CTH C

STA 10+00'EB' - 13+64'EB'
STA 10+00'WB' - 13+61'WB'

① SEEDING MIXTURE NO. 30 OR NO. 80 (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS) & FERTILIZER TYPE B

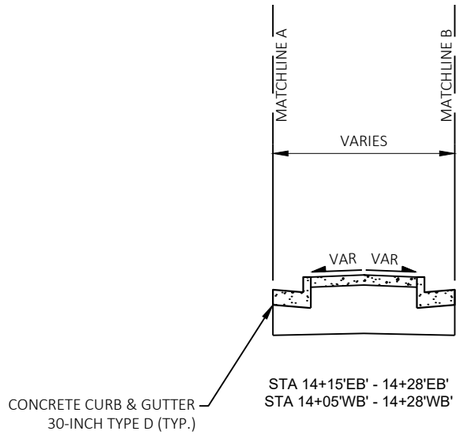
② SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B OR EROSION MAT URBAN CLASS 1, TYPE B OR MULCH (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS)

③ SEE ALIGNMENT DETAILS FOR SUPER ELEVATION TABLE



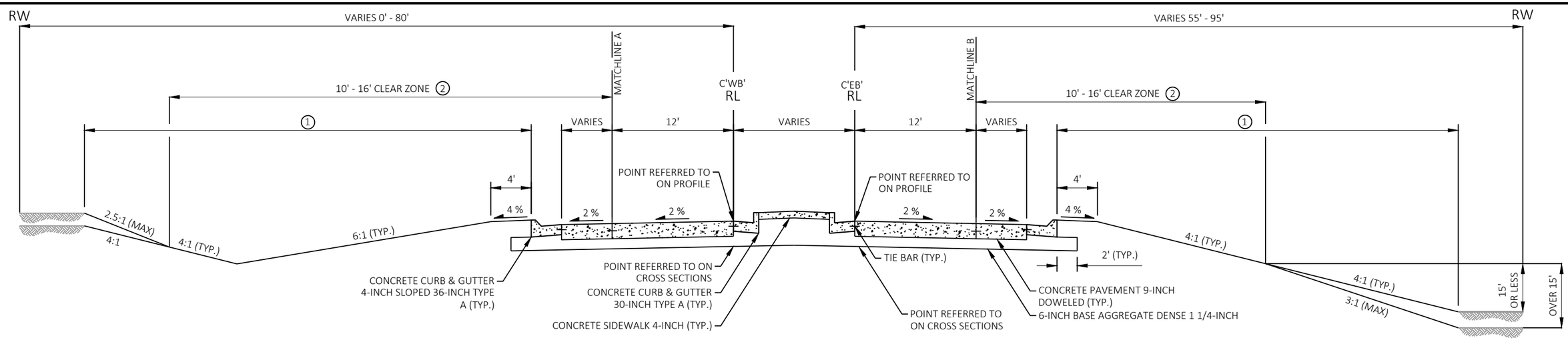
① SEEDING MIXTURE NO. 30 OR NO. 80 (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS) & FERTILIZER TYPE B

② SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B OR EROSION MAT URBAN CLASS 1, TYPE B OR MULCH (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS)



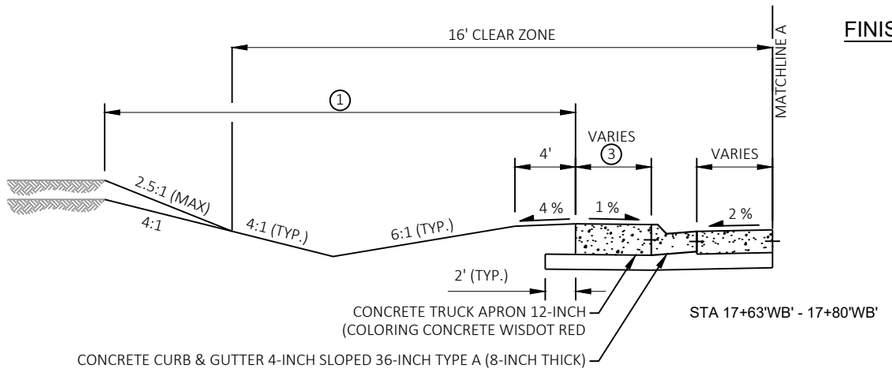
FINISHED TYPICAL SECTION CTH C

STA 13+64'EB' - 14+28'EB'
STA 13+61'WB' - 14+28'WB'

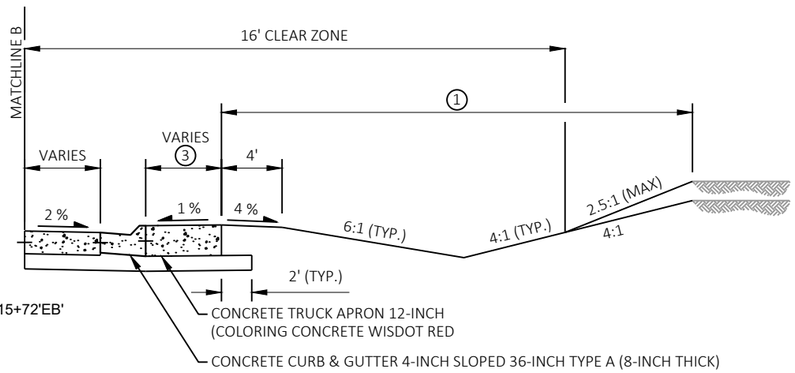


FINISHED TYPICAL SECTION CTH C

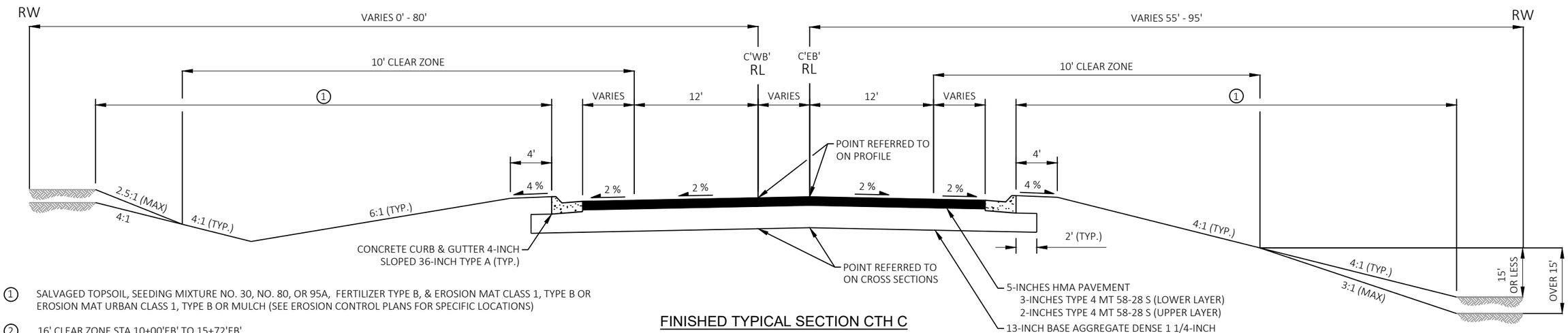
STA 14+28'EB' - 15+72'EB'
STA 14+28'WB' - 16+03'WB'
STA 17+50'EB' - 18+12'EB'
STA 17+63'WB' - 18+13'WB'



STA 17+63'WB' - 17+80'WB'



STA 15+48'EB' - 15+72'EB'



FINISHED TYPICAL SECTION CTH C

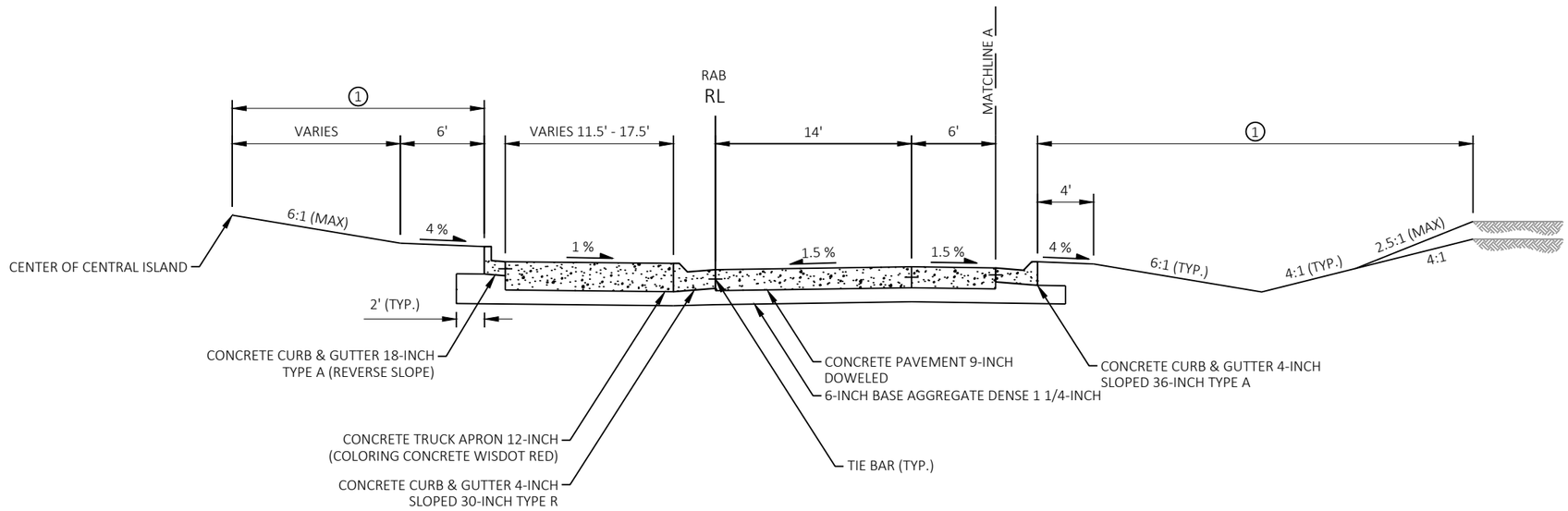
STA 18+12'EB' - 19+18'EB'
STA 18+13'WB' - 19+18'WB'

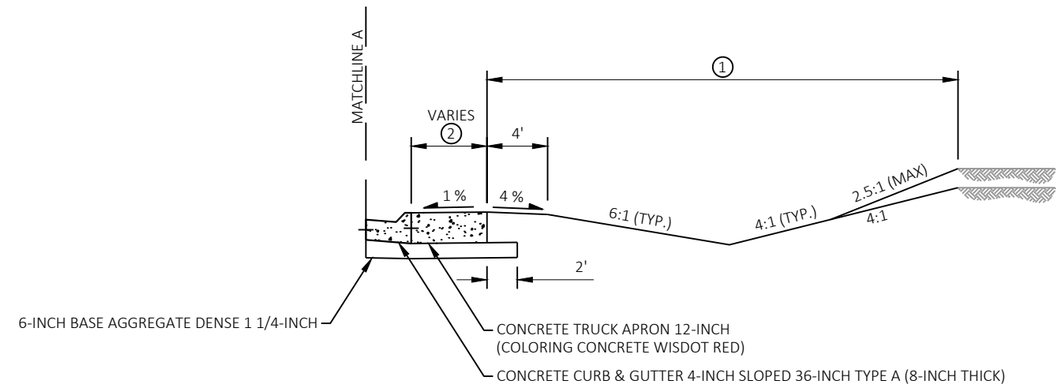
(1) SALVAGED TOPSOIL, SEEDING MIXTURE NO. 30, NO. 80, OR 95A, FERTILIZER TYPE B, & EROSION MAT CLASS 1, TYPE B OR EROSION MAT URBAN CLASS 1, TYPE B OR MULCH (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS)

(2) 16' CLEAR ZONE STA 10+00'EB' TO 15+72'EB'
16' CLEAR ZONE STA 10+00'WB' TO 16+03'WB'
10 CLEAR ZONE STA 17+50'EB' TO 19+32'EB'
10' CLEAR ZONE STA 17+63'WB' TO 19+32'WB'

(3) SEE PLAN DETAILS FOR OVERTRACKING PAD LOCATIONS

2





STA 10+99'RAB' - 11+10'RAB'
STA 11+75'RAB' - 11+84'RAB'
STA 13+10'RAB' - 13+32'RAB'
STA 13+86'RAB' - 13+95'RAB'

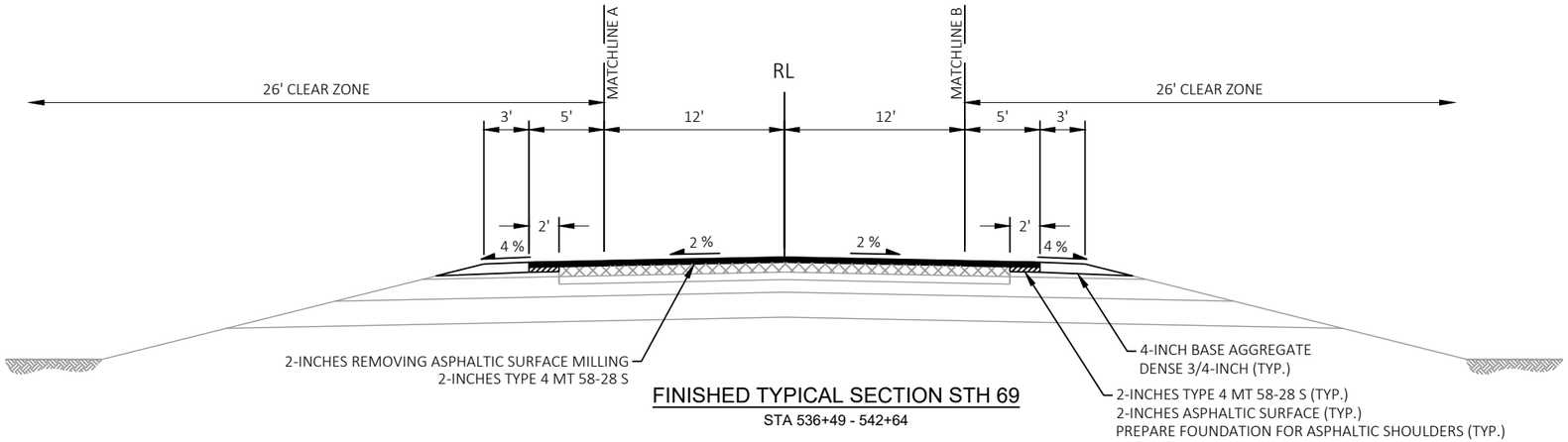
(1) SALVAGED TOPSOIL, SEEDING MIXTURE NO. 30, FERTILIZER TYPE B, & EROSION MAT CLASS 1, TYPE B

(2) SEE PLAN DETAILS FOR OVERTRACKING PAD LOCATIONS

FINISHED TYPICAL SECTION ROUNDABOUT

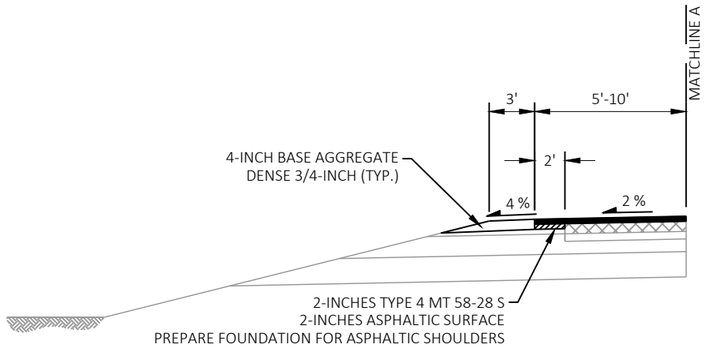
STA 10+00'RAB' - 14+22'RAB'

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	FINISHED TYPICAL SECTIONS	SHEET 17	E



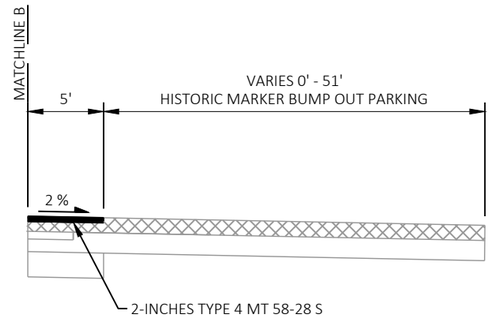
FINISHED TYPICAL SECTION STH 69

STA 536+49 - 542+64



FINISHED TYPICAL SECTION

STA 538+12 - 539+62

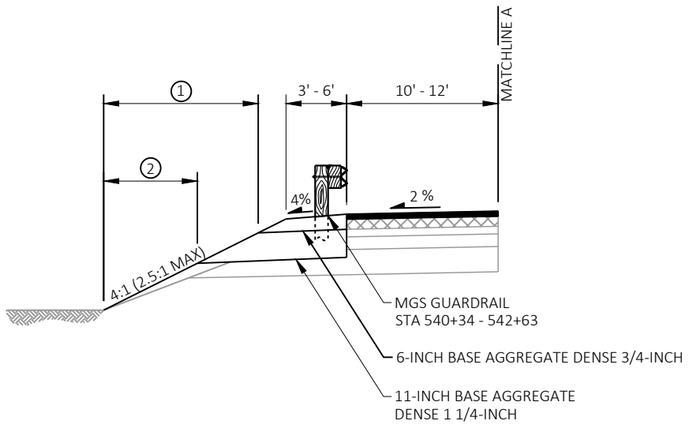


FINISHED TYPICAL SECTION

STA 538+30 - 540+70

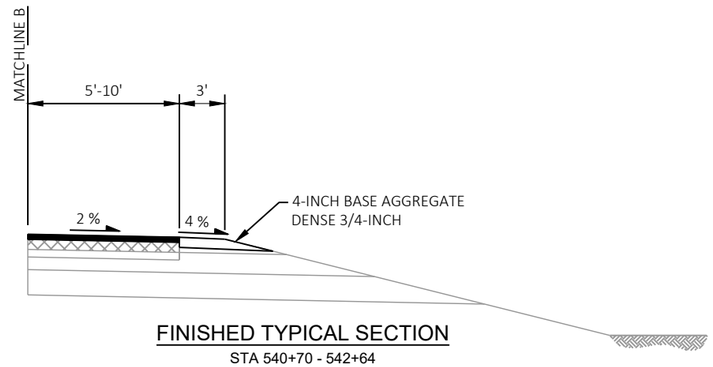
① SEEDING MIXTURE NO. 80 & FERTILIZER TYPE B

② SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B
OR EROSION MAT URBAN CLASS 1, TYPE B OR MULCH
(SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS)



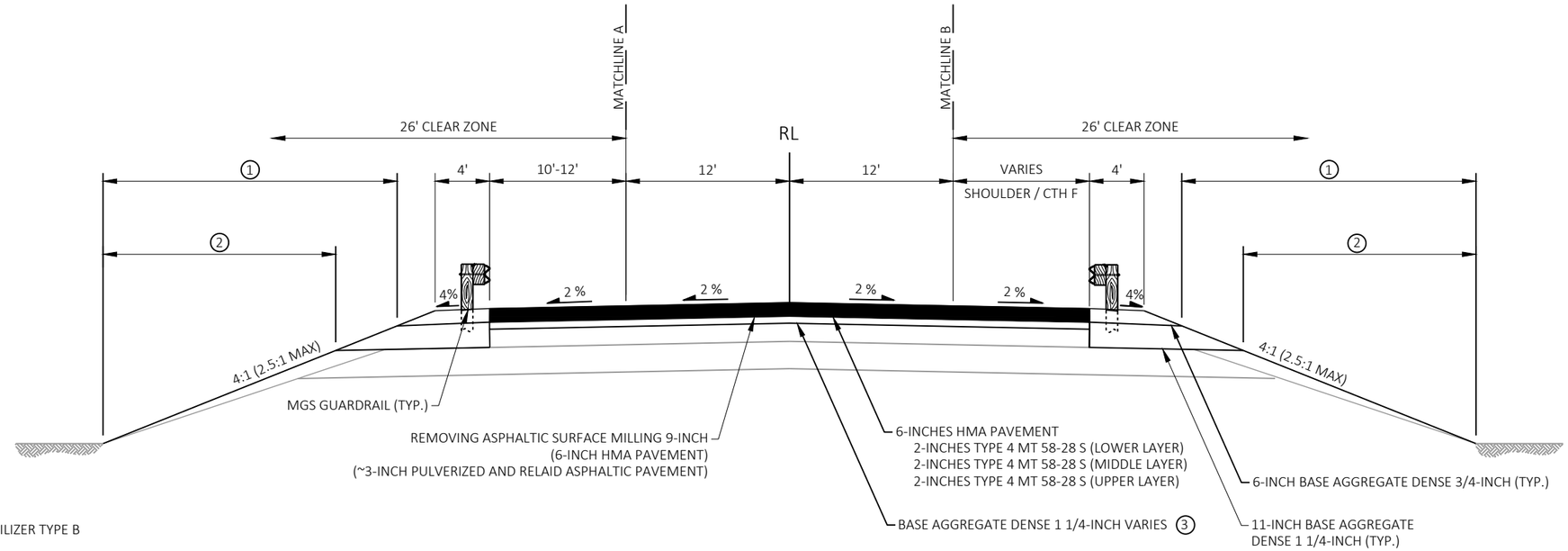
FINISHED TYPICAL SECTION

STA 539+62 - 542+64



FINISHED TYPICAL SECTION

STA 540+70 - 542+64



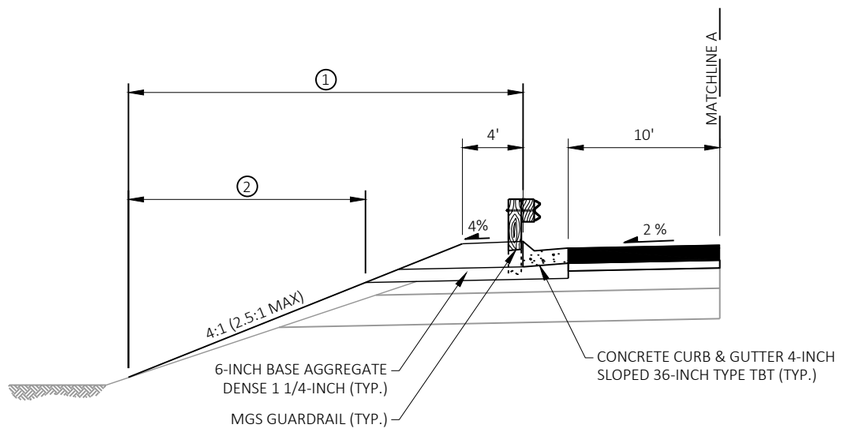
FINISHED TYPICAL SECTION

STA 542+64 - 543+53
STA 544+31 - 545+69

(1) SEEDING MIXTURE NO. 80 & FERTILIZER TYPE B

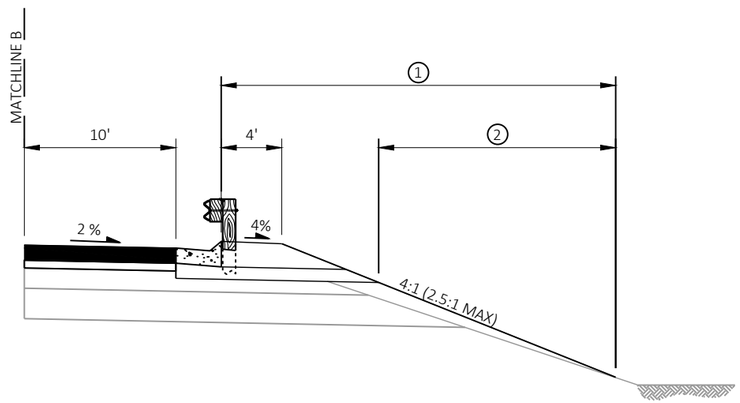
(2) SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B
OR EROSION MAT URBAN CLASS 1, TYPE B
(SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS)

(3) STA 542+64 - 543+53, 3-INCH TO 6-INCH
STA 544+31 - 546+63, 6-INCH TO 3-INCH



FINISHED TYPICAL SECTION

STA 543+10 - 543+53

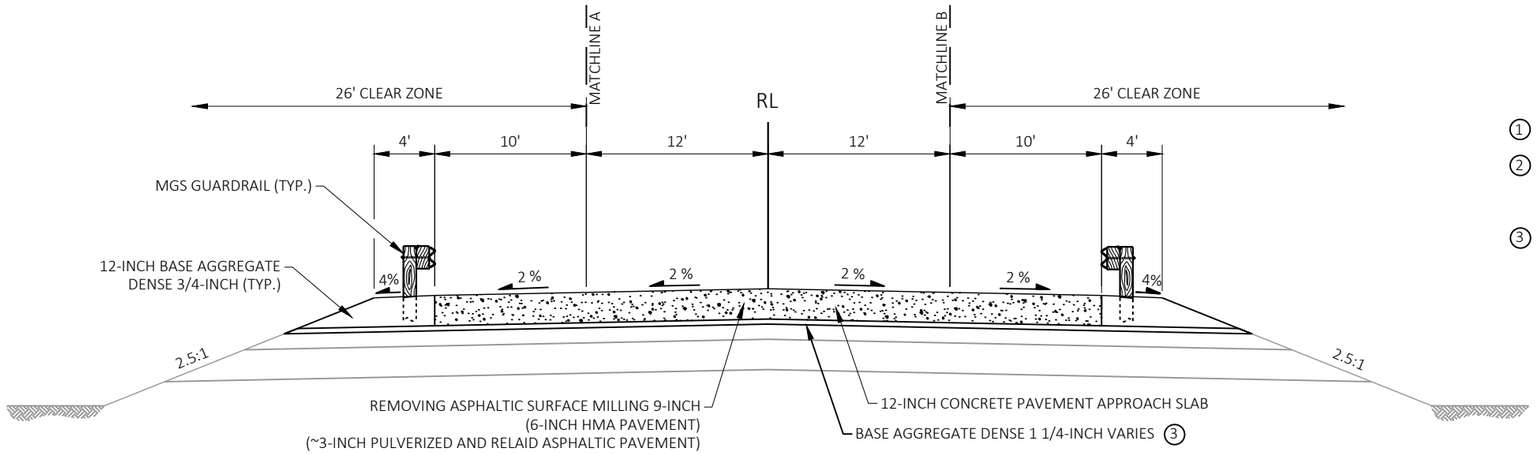


FINISHED TYPICAL SECTION

STA 543+28 - 543+53

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	FINISHED TYPICAL SECTIONS	SHEET 19	E

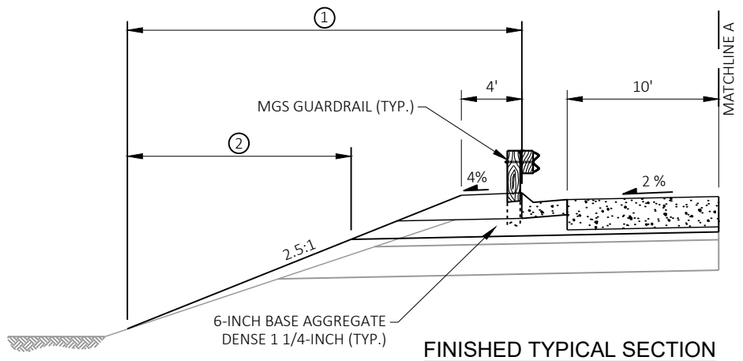
FILE NAME : N:\PDS\C3D\16900403\SHEETS\020301-TS.DWG
LAYOUT NAME - 020315-ts
PLOT DATE : 9/16/2025 2:11 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



1. SEEDING MIXTURE NO. 80 & FERTILIZER TYPE B
2. SALVAGED TOPSOIL & EROSION MAT CLASS 1, TYPE B
   OR EROSION MAT URBAN CLASS 1, TYPE B
   (SEE EROSION CONTROL PLANS FOR SPECIFIC LOCATIONS)
3. STA 542+53 - 543+68, ~0-INCH
   STA 544+16 - 544+31, ~2-INCH

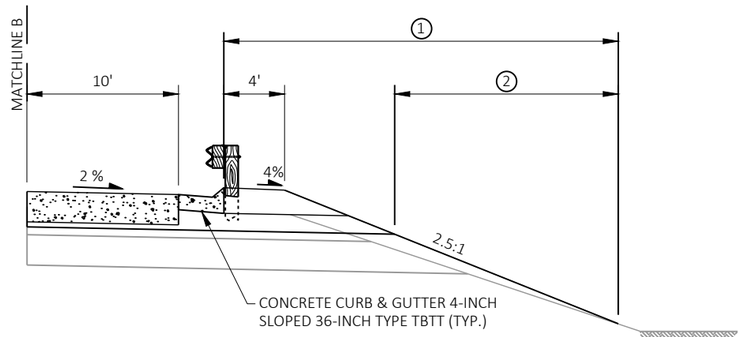
FINISHED TYPICAL SECTION

STA 543+53 - 543+68
STA 544+16 - 544+31



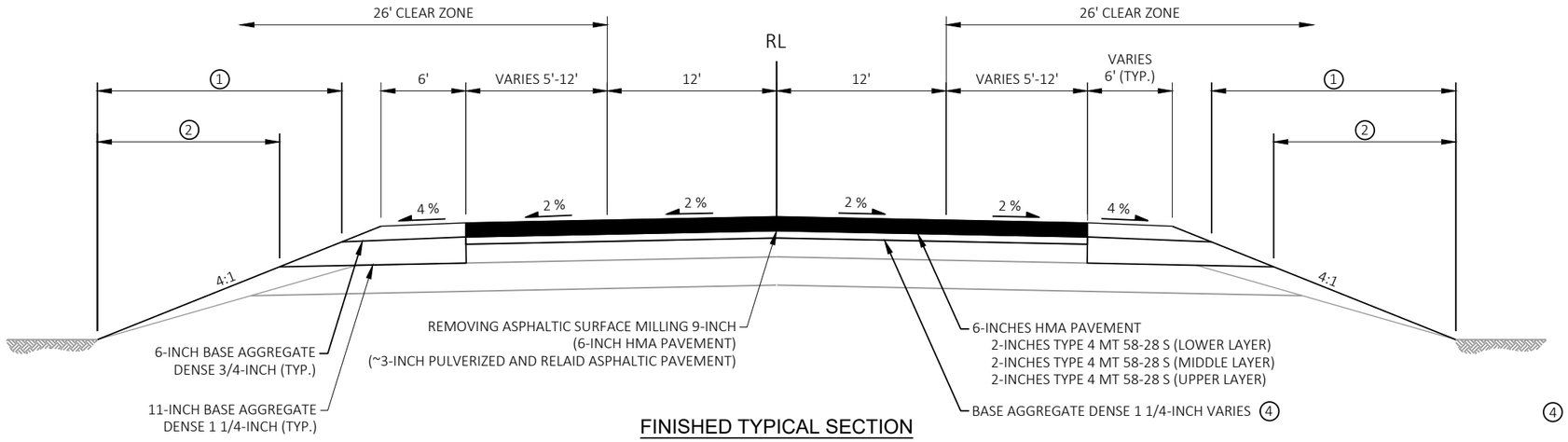
FINISHED TYPICAL SECTION

STA 543+53 - 543+68



FINISHED TYPICAL SECTION

STA 543+53 - 543+68



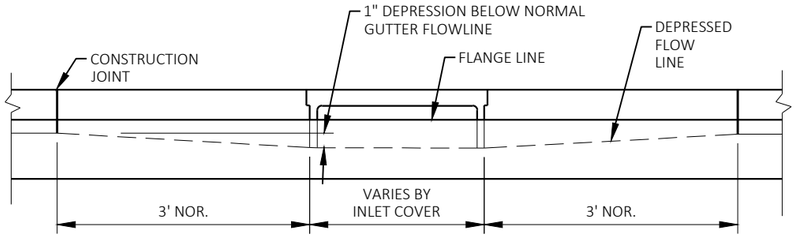
FINISHED TYPICAL SECTION

STA 545+69 - 546+63

4. STA 544+31 - 546+63, 6-INCH TO 3-INCH

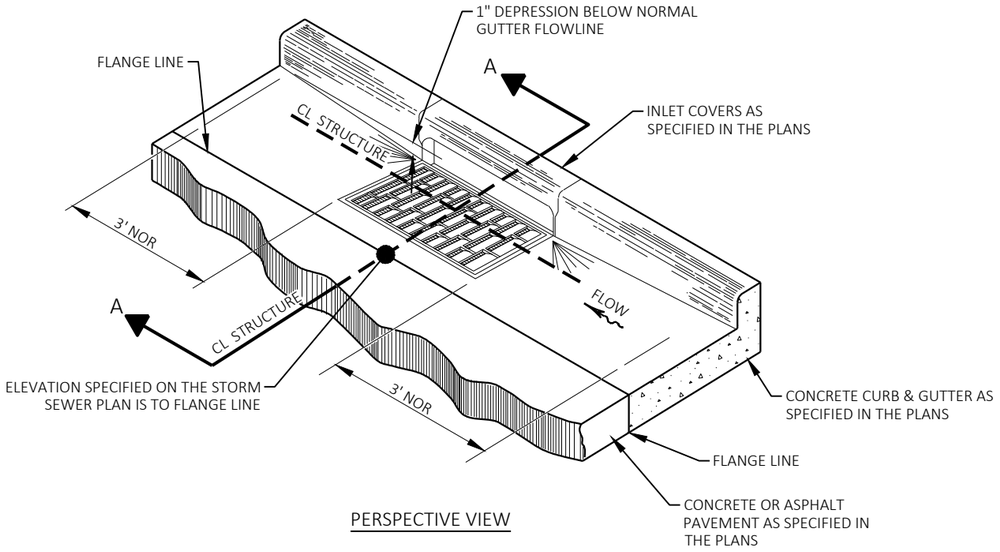
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	FINISHED TYPICAL SECTIONS	SHEET 20	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\020301-TS.DWG
LAYOUT NAME - 020316-ts
PLOT DATE : 9/16/2025 2:11 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

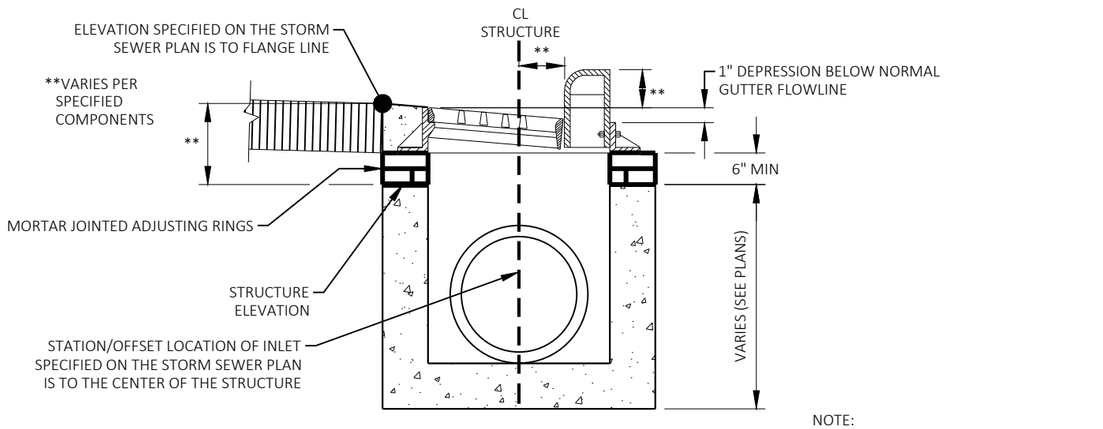


ELEVATION VIEW AT FLANGE LINE

(GRATE AND CURB DETAILS OMITTED FOR DRAWING CLARITY)



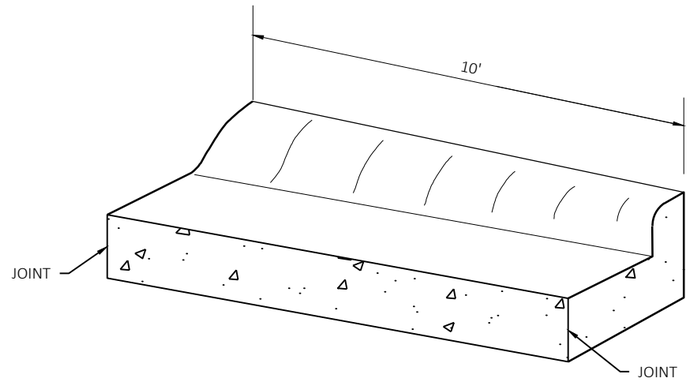
PERSPECTIVE VIEW

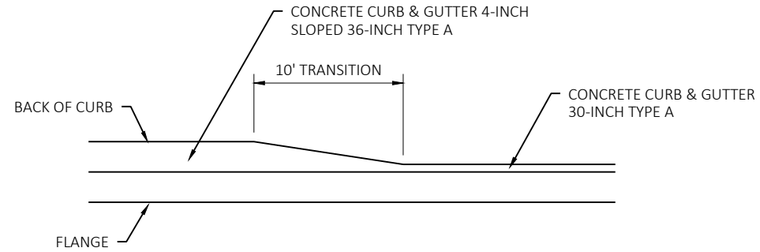


SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

NOTE:
INLET COVER - TYPE H AND CONCRETE CURB AND GUTTER 30-INCH SHOWN FOR DETAIL ILLUSTRATION ONLY. GUTTER PAN DEPRESSION IS SIMILAR FOR OTHER CURB AND GUTTER /INLET COMBINATIONS

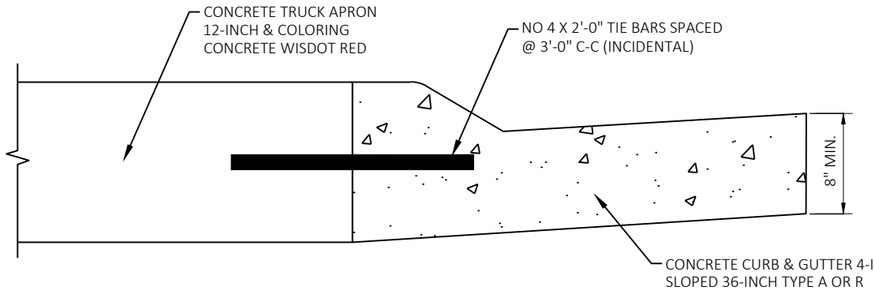




PLAN VIEW

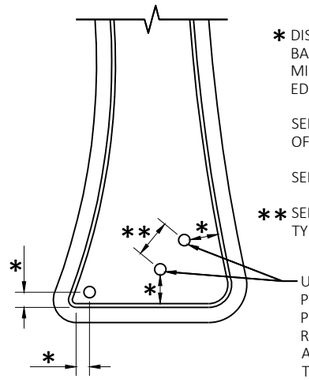
CONCRETE CURB & GUTTER TRANSITION DETAIL

CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A TO CONCRETE CURB & GUTTER 30-INCH TYPE A (TO BE MEASURED AND PAID FOR AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A). REFER TO PAVEMENT DETAILS FOR CURB TRANSITION LOCATIONS.



TRUCK OVERTRACKING DETAIL

2



* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

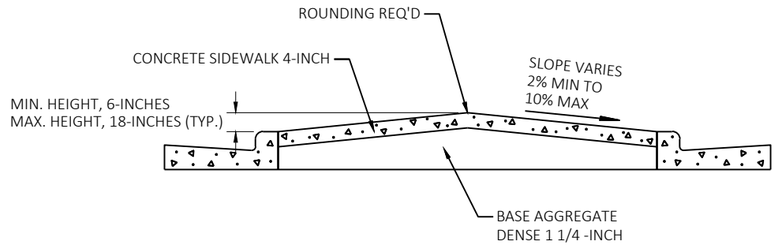
SEE A4-3 SIGN PLATE FOR "TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POST"

SEE A4-3B SIGN PLATE "SIGN POST BOX-OUTS"

** SEE A4-4 SIGN PLATE "TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE SUPPORTS"

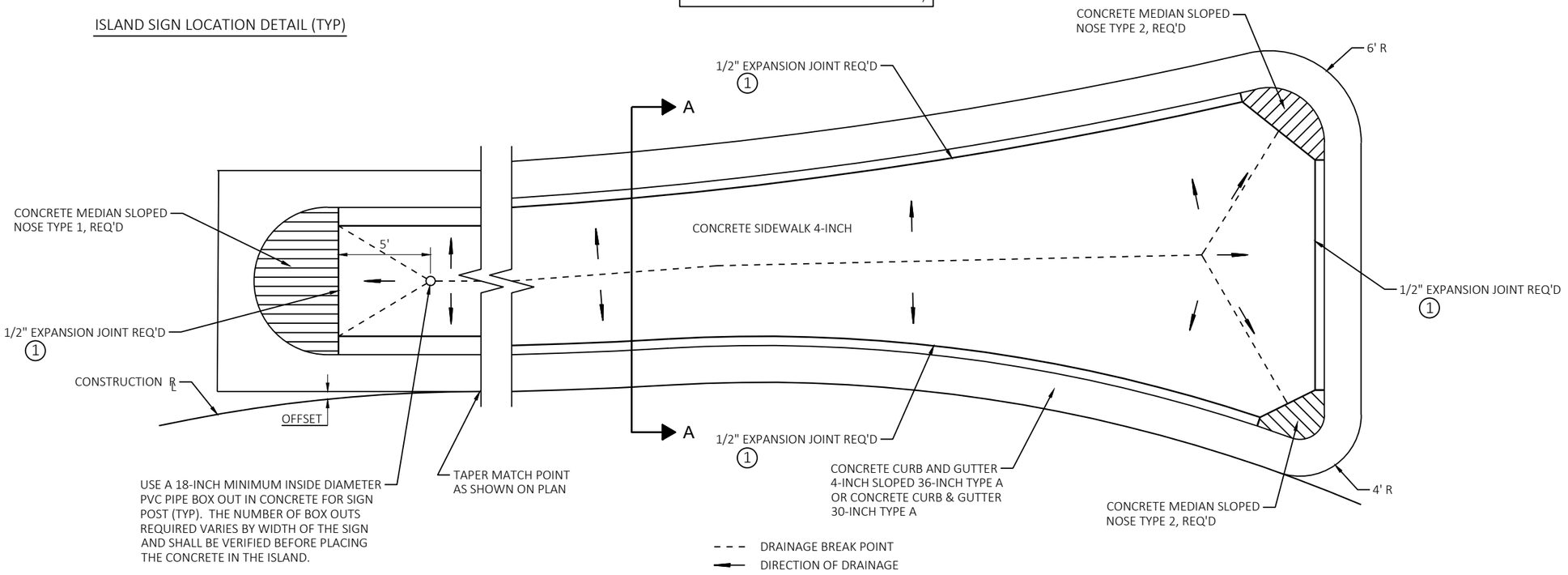
USE A 18-INCH MINIMUM INSIDE DIAMETER PVC PIPE BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.

ISLAND SIGN LOCATION DETAIL (TYP)



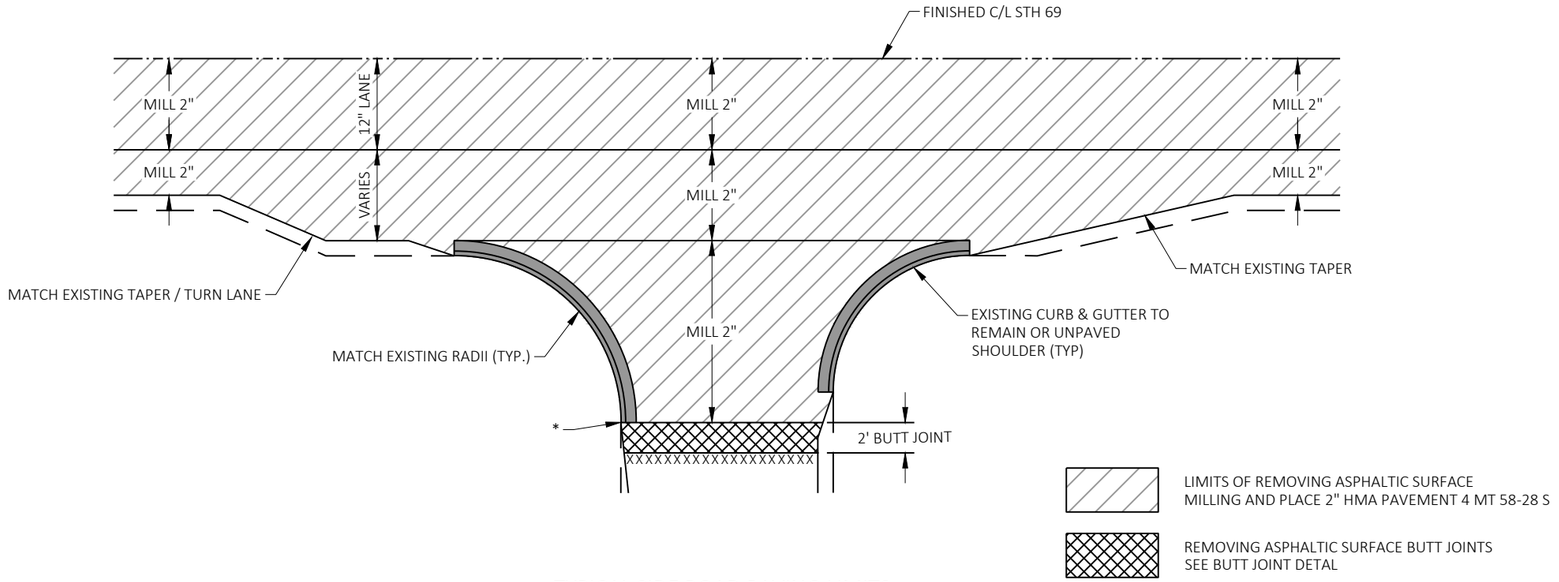
SECTION A-A

① EXPANSION MATERIAL TO BE 1" LONGER THAN ABUTTING MEDIAN CONCRETE THICKNESS. (i.e. 5" IN HEIGHT WHEN ADJACENT TO CONCRETE SIDEWALK 4-INCH)



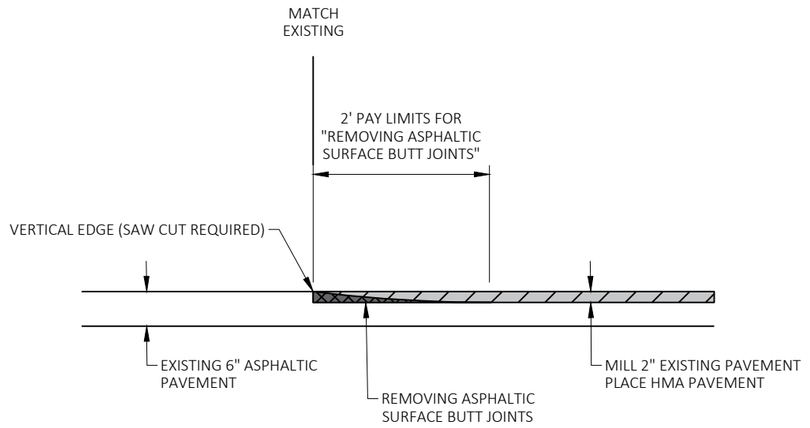
CONCRETE SPLITTER ISLAND DETAIL WITHOUT CROSSWALK

2



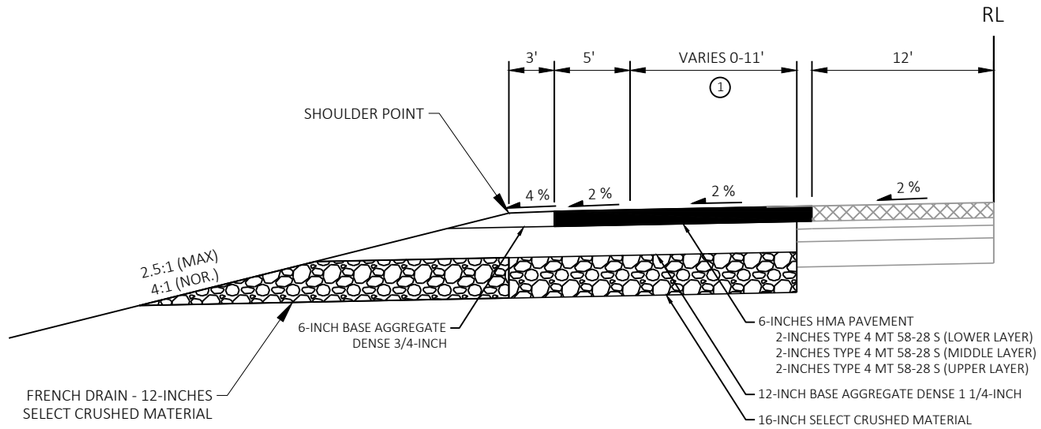
TYPICAL SIDE ROAD PAVING LIMITS

* MILL AND OVERLAY TO RADIUS POINT FARTHEST FROM MAINLINE STH 69

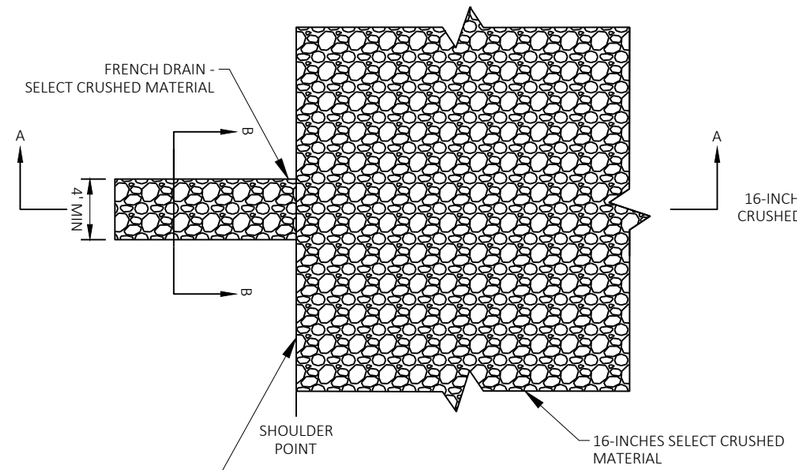


BUTT JOINT TO MATCH EXISTING

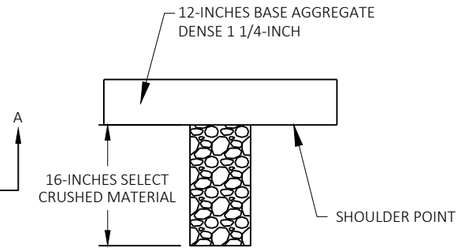
WITTENWYLER RD	STA 474+18
CEMETERY RD	STA 480+54
PIERCE RD	STA 492+67
CTH F (LAKE AVE)	STA 542+44



SECTION VIEW A-A



PLAN VIEW



SECTION VIEW B-B

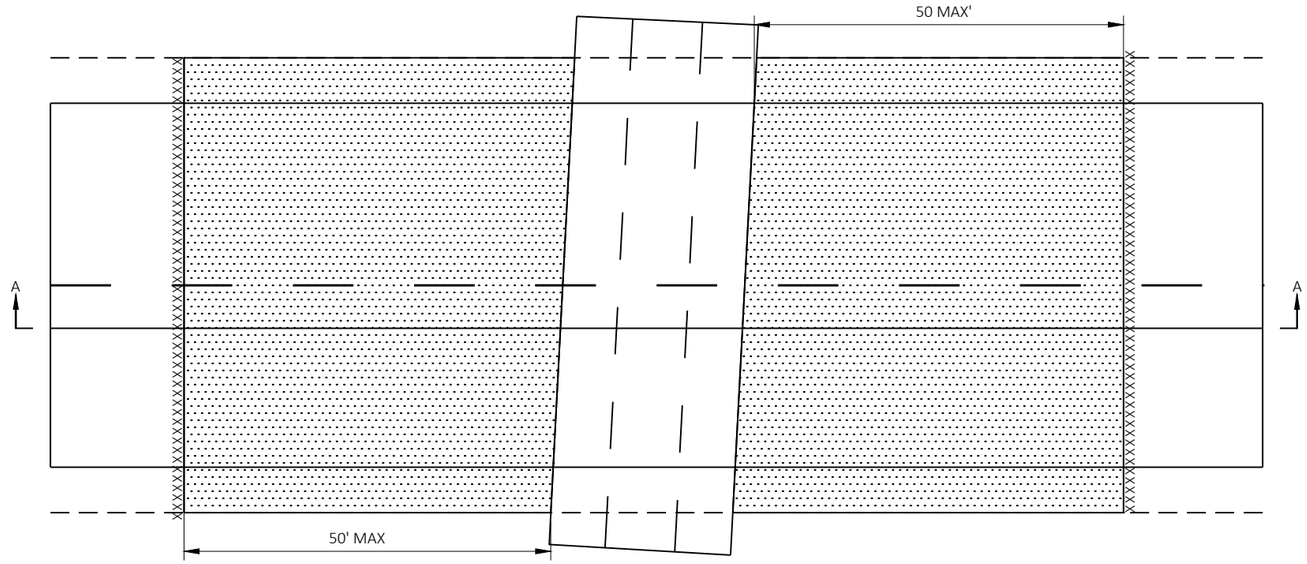
DETAIL FOR FRENCH DRAINS

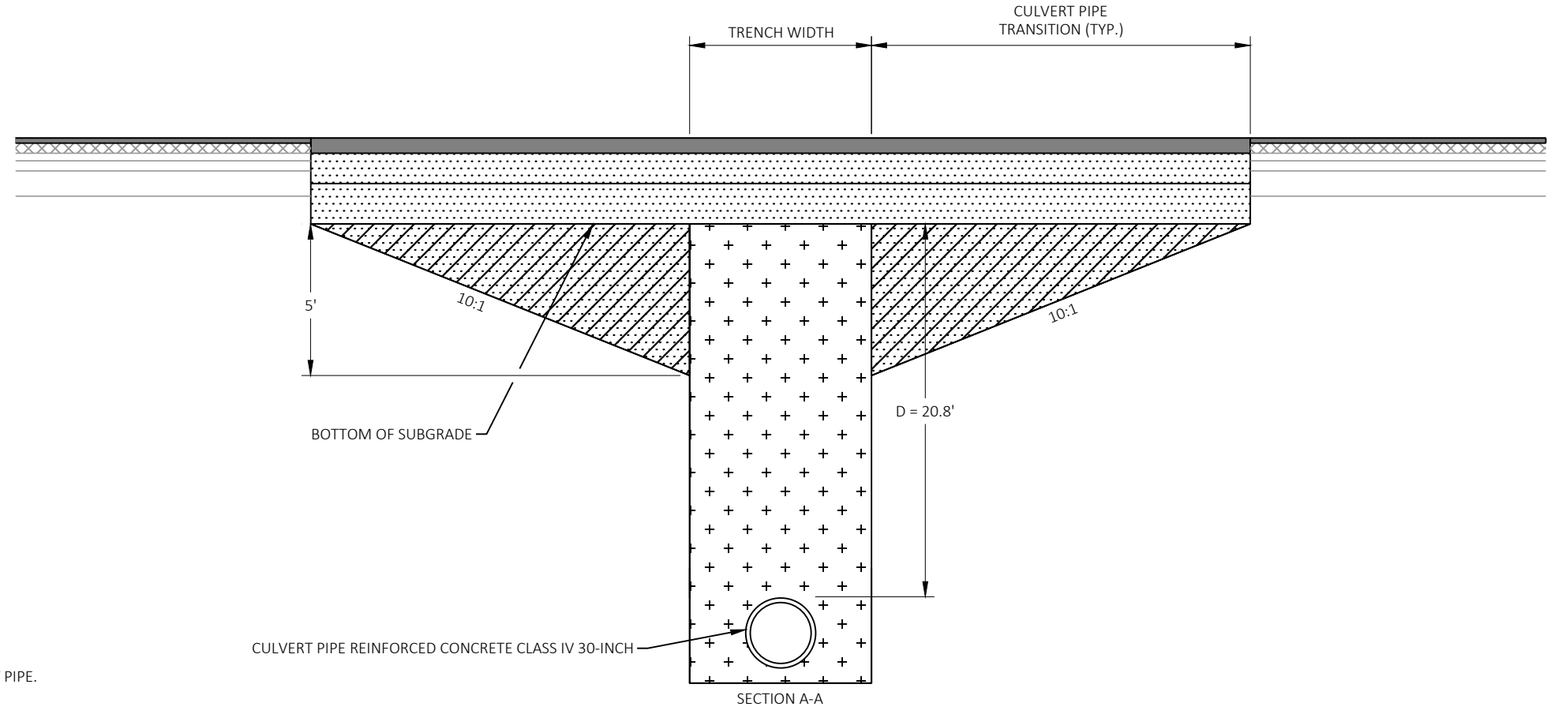
DRAINS ARE TO BE CONSTRUCTED AT LEAST EVERY 250' AND AT EACH LOW POINT OF A SAG VERTICAL CURVE IN THE PROFILE.

LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

EXCAVATION REQUIRED TO CONSTRUCT FENCH DRAINS SHALL BE CONSIDERED INCIDENTAL TO THE ITEM SELECT CRUSHED MATERIAL.

2





COMMON EXCAVATION

BACKFILL GRANULAR GRADE 2 AND
COMMON EXCAVATION PAID SEPARATELY

\+ EXCAVATION AND BACKFILL
GRANULAR GRADE 2 INCIDENTAL TO
REMOVING SMALL PIPE CULVERT

NOTES:

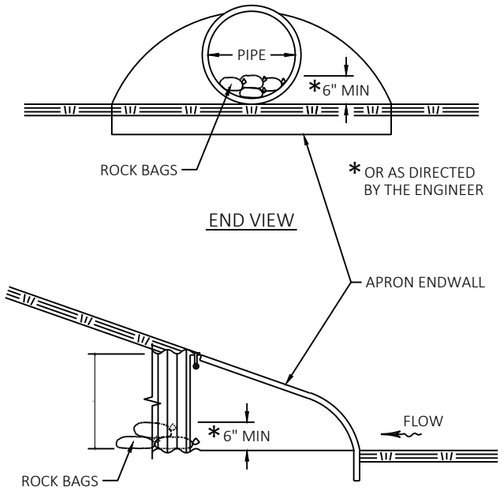
CONSTRUCT TRANSITION PERPENDICULAR TO CULVERT PIPE.

TRANSITION CUT IS PAID AS COMMON EXCAVATION

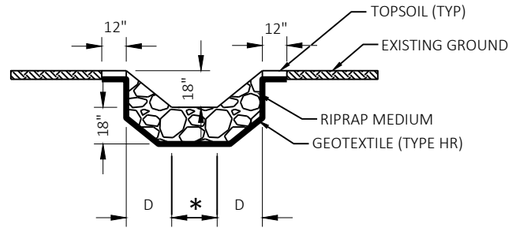
TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT

CULVERT PIPE TRANSITION

STA 489+26

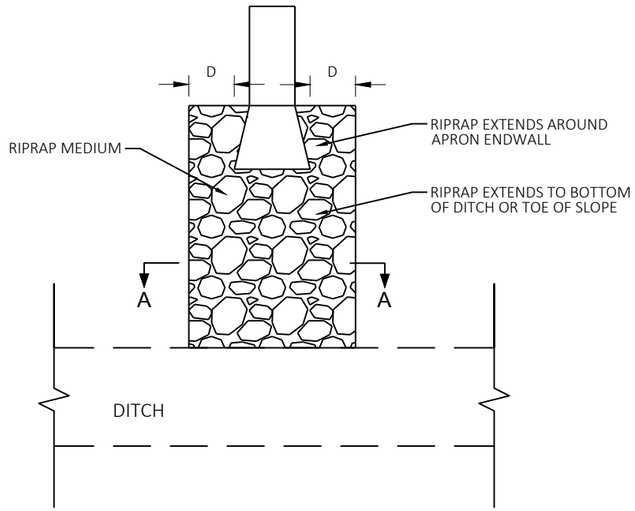


CULVERT PIPE CHECKS



SECTION A-A

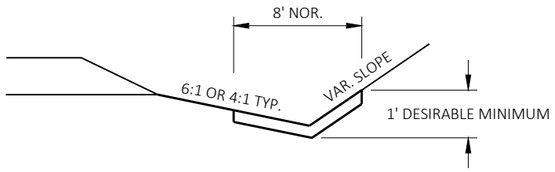
* APRON ENDWALL WIDTH
D = PIPE DIAMETER



PLAN VIEW

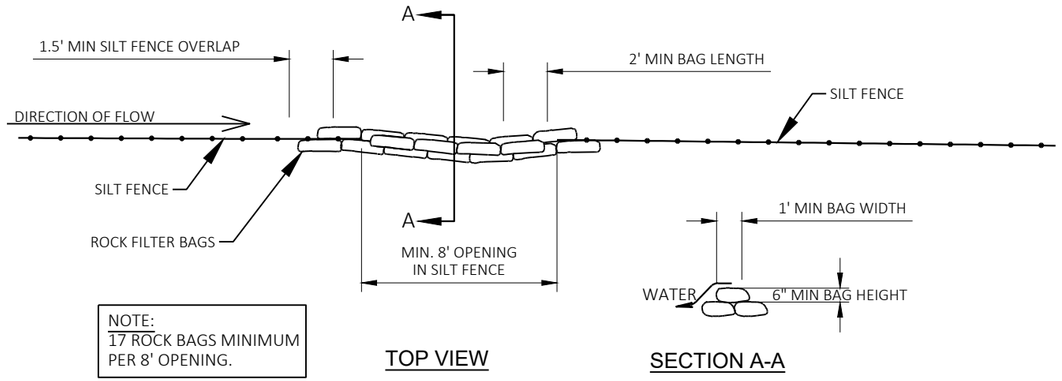
RIPRAP TREATMENT AT STORM SEWER OUTFALLS

2



EROSION MAT DETAIL FOR DITCHES

SEE EROSION CONTROL PLAN FOR
LOCATIONS AND CLASSES

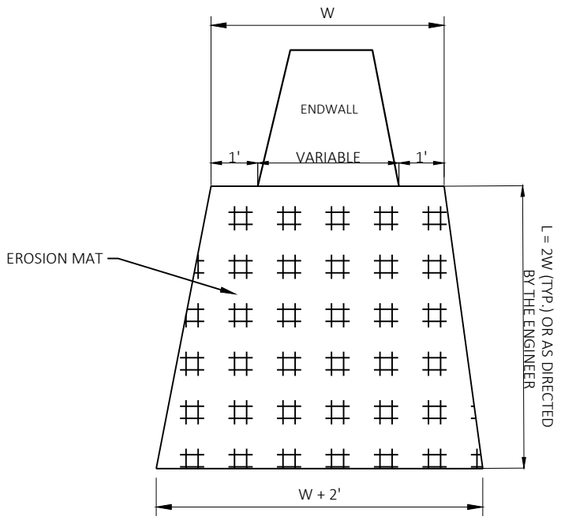


NOTE:
17 ROCK BAGS MINIMUM
PER 8' OPENING.

TOP VIEW

SECTION A-A

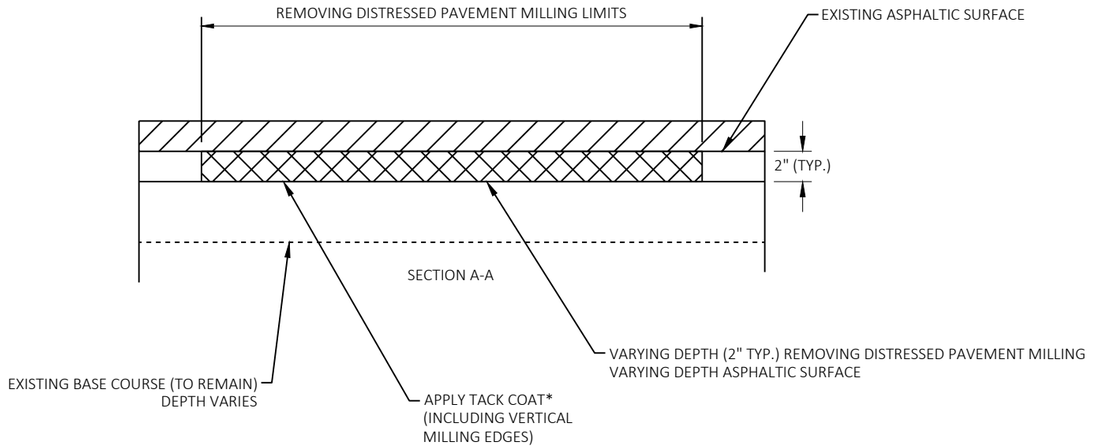
ROCK BAGS USED FOR SILT FENCE RELIEF

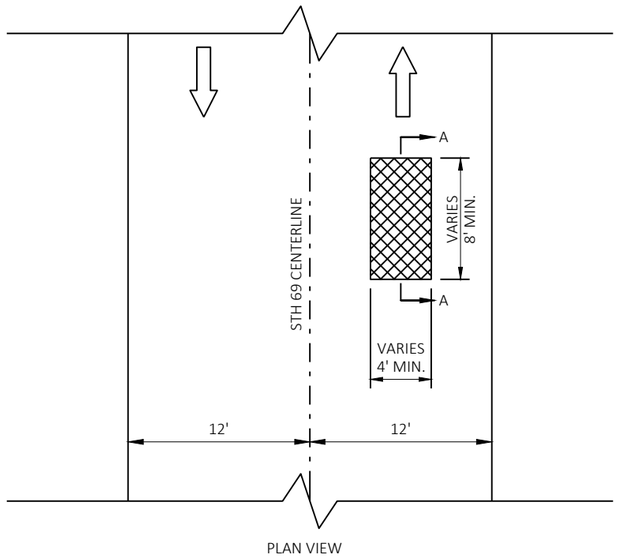


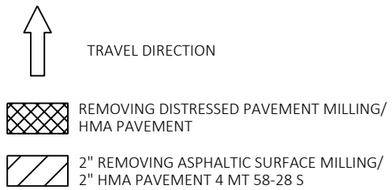
EROSION MAT TREATMENT FOR CULVERTS

SEE EROSION CONTROL PLAN FOR LOCATIONS.

2





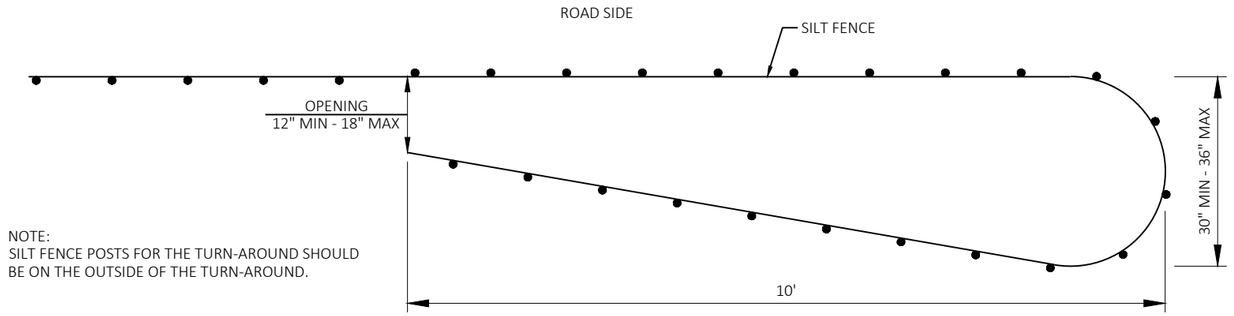


REMOVING DISTRESSED PAVEMENT MILLING

NOTE: EXACT LOCATION AND LIMITS OF REMOVING DISTRESSED PAVEMENT MILLING TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

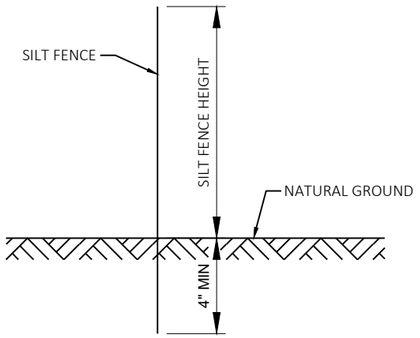
*DO NOT APPLY TACK COAT ON EXPOSED BASE COURSE

2



NOTE:
SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND.

PLAN VIEW



SIDE VIEW

SILT FENCE TURN-AROUND DETAIL

STH 69

N

EXISTING WEIR

X=622469.795
Y=188840.670

BACKFILL GRANULAR GRADE 1

X=622476.535
Y=188820.808

X=622485.438
Y=188785.722

X=622498.160
Y=188768.649

OVERFLOW WEIR

STORM WATER POND
EL. 838

X=622507.833
Y=188814.112

X=622512.541
Y=188834.712

X=622549.989
Y=188805.154

BACKFILL GRANULAR GRADE 1

X=622565.776
Y=188817.972

EXISTING R/W

CTH C (URBAN ROAD)

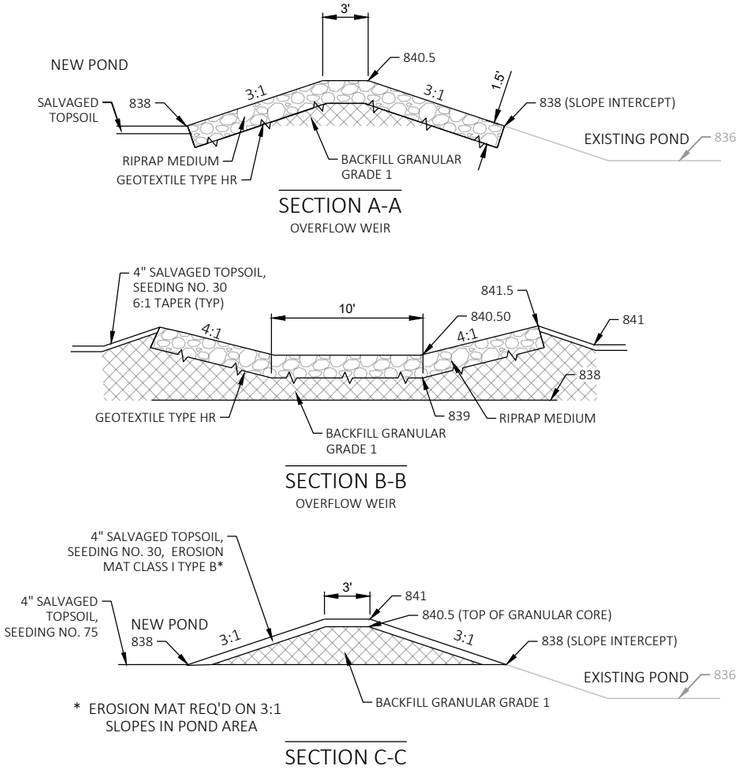
EXISTING STORM WATER POND

THE MONTESIAN LAKE

160

422

19+00 'WB'



SECTION A-A
OVERFLOW WEIR

SECTION B-B
OVERFLOW WEIR

* EROSION MAT REQ'D ON 3:1 SLOPES IN POND AREA

SECTION C-C

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	POND CONSTRUCTION DETAIL	SHEET 30	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_021001-CD POND DETAIL.DWG
LAYOUT NAME - STH 69

PLOT DATE : 3/27/2025 2:34 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

N

BEGIN LIMITS
CONSTRUCTION ROUNDABOUT STAKING
STA 13+64'EB' AND STA 13+61'WB'

18'EB'
CTH C
14'WB'
16'WB'
14'WB'
18'EB'
16'WB'

END LIMITS
CONSTRUCTION ROUNDABOUT STAKING
STA 533+66'NB' AND STA 533+66'SB'

534'SB'
532'SB'
536'SB'
534'NB'
532'NB'
536'NB'
STH 69

526'SB'
528'SB'
526'NB'
528'NB'
STH 69

BEGIN LIMITS
CONSTRUCTION ROUNDABOUT STAKING
STA 526+93'NB' AND STA 526+92'SB'

18'WB'
18'EB'

END LIMITS
CONSTRUCTION ROUNDABOUT STAKING
STA 18+12'EB' AND STA 18+13'WB'

19'WB'
20'EB'
CTH C (URBAN RD)

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CONSTRUCTION DETAILS - CONSTRUCTION ROUNDABOUT STAKING	SHEET 31	E

2

N

NOTE: CLEARING TO BE DONE BY
OTHERS PRIOR TO PROJECT

MATCH LINE 481+25

2

GRUBBING
5 ID

GRUBBING
3 ID

REMOVING CONCRETE PAVEMENT (143 SY)

REMOVING SMALL PIPE CULVERTS

TREES TO REMAIN

REMOVING SMALL PIPE CULVERTS

STA 478+00 - 480+00
GRUBBING

STA 474+00 - 477+00
GRUBBING

TLE

SLOPE INTERCEPT (TYP.)

SAW CUT REQ'D

EXISTING R/W

EXISTING R/W

470

475

480

EXISTING R/W

SIGN

CEMETERY RD

FLAG

WITTENWYLER RD

EXISTING R/W

BEGIN PROJECT 1690-04-73
STA 466+94
END CONSTRUCTION 1690-04-62

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	REMOVAL DETAILS	SHEET 32	E

2

N

NOTE: CLEARING TO BE DONE BY
OTHERS PRIOR TO PROJECT

END CONSTRUCTION 1690-04-73
STA 494+00
BEGIN CONSTRUCTION 1690-04-62

GRUBBING (STA. 488+00 - 492+00)

REMOVING GUARDRAIL (354')

EXISTING R/W

SAW CUT REQ'D

PIERCE RD

485

490

495

SLOPE-INTERCEPT (TYP.)

EXISTING R/W

REMOVING GUARDRAIL (729')

REMOVING SMALL PIPE CULVERTS

GRUBBING (STA. 485+00 - 487+00)

TLE

GRUBBING (STA. 488+00 - 493+00)

REMOVING SMALL PIPE CULVERTS

MATCH LINE 481+25

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	REMOVAL DETAILS	SHEET 33	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\021101-RM.DWG
LAYOUT NAME - 021102-rm
PLOT DATE : 9/16/2025 11:16 AM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

NOTE: CLEARING TO BE DONE BY
OTHERS PRIOR TO PROJECT

REMOVING SMALL PIPE CULVERTS

N

MATCH LINE 535+75

2

SLOPE INTERCEPT (TYP.)

REMOVING SMALL PIPE CULVERTS

GRUBBING (STA. 530+00 - 532+00)

BEGIN CONSTRUCTION 1690-04-73
STA 524+09.68
END CONSTRUCTION 1690-04-62

CTH C

15

15

GRUBBING (STA. 532+00 - 535+00)

REMOVING CURB (197')

EXISTING R/W

REMOVING CURB AND
GUTTER (92')

REMOVING CURB AND
GUTTER (54')

525

530

535

REMOVING CONCRETE SIDEWALK (119 SY)

REMOVING CONCRETE SIDEWALK (159 SY)

EXISTING R/W

REMOVING CURB (228')

EXISTING R/W

REMOVING CURB
AND GUTTER (221')

REMOVING SMALL PIPE CULVERTS

REMOVING STORM SEWER (125' OF 15-INCH)

CTH C (URBAN RD

19

20

REMOVING INLETS

REMOVING CURB
AND GUTTER (278')

N

SIGN

10

5

CTH C

POST

SIGN

REMOVING ASPHALTIC INTERSECTION RUMBLE STRIP
PAID FOR AS REMOVING ASPHALTIC SURFACE MILLING (30 SY)

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	REMOVAL DETAILS	SHEET 34	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\021101-RM.DWG
LAYOUT NAME - 021103-rm

PLOT DATE : 9/16/2025 11:16 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE: CLEARING TO BE DONE BY
OTHERS PRIOR TO PROJECT

N

SLOPE INTERCEPT (TYP.)

REMOVING GUARDRAIL (254')

SAW CUT (REQ'D)

EXISTING R/W

SIGN

GUY

540

545

CTH F (LAKE AVE)

EXISTING R/W

VEHICLE PARKING AREA

REMOVING CONCRETE SIDEWALK (7 SY)

SIGN

REMOVING GUARDRAIL (167')

REMOVING CURB AND GUTTER (85')

END PROJECT 1690-04-73
STA 546+63
BEGIN CONSTRUCTION 1690-04-62

MATCH LINE 535+75

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	REMOVAL DETAILS	SHEET 35	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\021101-RM.DWG
LAYOUT NAME - 021104-rm

PLOT DATE : 9/16/2025 11:16 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

HP01 6-INCH HMA PAVEMENT 4 MT 58-28 S

DW01 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

DW02 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH

DW03 CONCRETE DRIVEWAY 6-INCH

XXXXX SAWING ASPHALT

SAWING CONCRETE

FD FRENCH DRAIN

N

EDGE OF FIELD (TYP.)

DITCH BOTTOM (TYP.)

EXISTING EDGE OF PAVEMENT (TYP.)

EXISTING AGGREGATE SHOULDER (TYP.)

EXISTING R/W

SLOPE INTERCEPT (TYP.)

UNDERGROUND TELEPHONE - TDS

UNDERGROUND FIBER OPTIC - TDS

TEMPORARY LIMITED EASEMENT

STA 466+94
-17.0' LT

12'

+00 467+00 468+00 469+00 STH 69 470+00 471+00 472+00

BEGIN PROJECT 1690-04-73
STA 466+94
Y = 182286.8900
X = 622611.6164
END CONSTRUCTION 1690-04-62

UNDERGROUND FIBER-OPTIC - TDS

OVERHEAD UTILITIES - ALLIANT ENERGY

UNDERGROUND GAS - WE ENERGIES

UNDERGROUND FIBER OPTIC - TDS

UNDERGROUND TELEPHONE - TDS

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS	SHEET 36	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\021201-PD.DWG
LAYOUT NAME - 021201-pd

PLOT DATE : 9/16/2025 2:35 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

HP01 6-INCH HMA PAVEMENT 4 MT 58-28 S

DW01 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

DW02 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH

DW03 CONCRETE DRIVEWAY 6-INCH

XXXXX SAWING ASPHALT

SAWING CONCRETE

FD FRENCH DRAIN

N

EDGE OF FIELD (TYP.)

BRICK PILLARS (TO REMAIN)

UNDERGROUND ELECTRIC - ALLIANT ENERGY

UNDERGROUND TELEPHONE - TDS

EXISTING EDGE OF PAVEMENT (TYP.)

EXISTING AGGREGATE SHOULDER (TYP.)

DITCH BOTTOM (TYP.)

SLOPE INTERCEPT (TYP.)

SALVAGE AND REPLACE LANDSCAPING STONE

UNDERGROUND TELEPHONE - TDS

DW01

APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1

CULVERT PIPE CLASS III 24-INCH

TEMPORARY LIMITED EASEMENT

TEMPORARY LIMITED EASEMENT

FO EXISTING R/W FO

XXXX

FD

FD

BORE

HP01

STH 69

473+00 474+00 475+00 476+00 477+00 478+00

STA 473+54
-29.0' LT

CAUTION

EXISTING R/W

UNDERGROUND FIBER-OPTIC - TDS

UNDERGROUND TELEPHONE - TDS

WITTENWYLER ROAD

UNDERGROUND GAS - WE ENERGIES

UNDERGROUND FIBER-OPTIC - TDS

EXISTING R/W

OVERHEAD UTILITIES - ALLIANT ENERGY

EXISTING R/W

EXISTING R/W

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS	SHEET 37	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\021201-PD.DWG
LAYOUT NAME - 021202-pd

PLOT DATE : 9/16/2025 2:35 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

HP01 6-INCH HMA PAVEMENT 4 MT 58-28 S

DW01 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

DW02 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH

DW03 CONCRETE DRIVEWAY 6-INCH

XXXXX SAWING ASPHALT

SAWING CONCRETE

FD FRENCH DRAIN

N

APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1

CULVERT PIPE CLASS III 24-INCH

DW03

SALVAGE AND REPLACE LANDSCAPING STONE

EXISTING R/W

POST 5 STA 479+53 -30.1' LT

POST 1 STA 479+28 -31.0' LT

MGS GUARDRAIL TERMINAL EAT

SLOPE INTERCEPT (TYP.)

MGS GUARDRAIL 3 1175'

DITCH BOTTOM (TYP.)

POST 9 STA 479+78 -29.1' LT

MGS GUARDRAIL STA 479+81 -29.3' LT

FD

HP01

479+00 STH 69 480+00 481+00 482+00 483+00 484+00

DW01

STA 479+08 -29.0' LT

SIGN

CAUTION

G

FO

UNDERGROUND GAS - WE ENERGIES

UNDERGROUND FIBER-OPTIC - TDS

CEMETERY ROAD

EXISTING EDGE OF PAVEMENT (TYP.)

EXISTING AGGREGATE SHOULDER (TYP.)

EXISTING R/W

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS	SHEET 38	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\021201-PD.DWG
LAYOUT NAME - 021203-pd

PLOT DATE : 9/16/2025 2:35 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

HP01 6-INCH HMA PAVEMENT 4 MT 58-28 S

DW01 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

DW02 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH

DW03 CONCRETE DRIVEWAY 6-INCH

XXXXX SAWING ASPHALT

SAWING CONCRETE

FD FRENCH DRAIN

N

TEMPORARY LIMITED EASEMENT

EXISTING R/W

SLOPE INTERCEPT (TYP.)

MGS GUARDRAIL 3
1175'

EXISTING EDGE OF
PAVEMENT (TYP.)

EXISTING AGGREGATE
SHOULDER (TYP.)

FD

FD

STA 488+73
-12.0' LT

STA 489+79
-24.0' LT

HP01

XXXX

2

2

HP01 6-INCH HMA PAVEMENT 4 MT 58-28 S

DW01 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

DW02 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH

DW03 CONCRETE DRIVEWAY 6-INCH

XXXXX SAWING ASPHALT

SAWING CONCRETE

FD FRENCH DRAIN

N

TEMPORARY LIMITED EASEMENT

EXISTING R/W

SLOPE INTERCEPT (TYP.)

MGS GUARDRAIL 3
1175'

STA 489+79
-24.0' LT

FD

MGS GUARDRAIL
TERMINAL EAT

HP01

STA 490+31
-29.0' LT

MGS GUARDRAIL
STA 491+56
-36.8' LT

POST 9
STA 491+59
-37.0' LT

POST 5
STA 491+84
-38.6' LT

POST 1
STA 492+09
-40.1' LT

PIERCE ROAD

END CONSTRUCTION 1690-04-73
STA 494+00
BEGIN CONSTRUCTION 1690-04-62

EXISTING EDGE OF
PAVEMENT (TYP.)

EXISTING AGGREGATE
SHOULDER (TYP.)

489+00 490+00 491+00 492+00 493+00 494+00

STH 69

MILL AND
OVERLAY

FULL DEPTH PAVEMENT
REPLACEMENT

MILL AND OVERLAY

STA 492+92
29.0' RT

DW01

MGS GUARDRAIL
STA 492+09
30.0' RT

POST 9
STA 492+12
30.1' RT

POST 5
STA 492+37
31.1' RT

POST 1
STA 492+62
32.3' RT

MGS GUARDRAIL 3
625'

MGS GUARDRAIL
TERMINAL EAT

APRON ENDWALLS FOR CULVERT
PIPE SLOPED SIDE DRAINS STEEL
18-INCH 6 TO 1

CULVERT PIPE REINFORCED
CONCRETE CLASS IV 30-INCH LF

CAUTION

CULVERT PIPE
CLASS III 18-INCH

EXISTING R/W

DW02

UNDERGROUND GAS -
WE ENERGIES

UNDERGROUND TELEPHONE -
TDS

TEMPORARY LIMITED EASEMENT

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS	SHEET 40	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\021201-PD.DWG
LAYOUT NAME - 021205-pd
PLOT DATE : 9/16/2025 2:36 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STATION & OFFSET TABLE (1)				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
1	526+97.62'NB'	8.98' LT	188287.09	622416.59
2	527+55.00'NB'	0.00'	188344.55	622423.01

MATCH LINE 527+80

2

TOP OF SLOPE (TYP.)
EXISTING R/W
EXISTING AGGREGATE SHOULDER (TYP.)
EXISTING EDGE OF PAVEMENT (TYP.)
BOTTOM OF ROCK FACE (TYP.)
SLOPE INTERCEPT (TYP.)
3'
17'
MILL AND OVERLAY
ROUNDABOUT RECONSTRUCTION
CG01
HP03
522+00
523+00
524+00
525+00 'SB'
526+00 'SB'
527+00 'SB'
525+00 'NB'
526+00 'NB'
527+00 'NB'
R5'
1
2
CM01
17'
18'
BEGIN CONSTRUCTION 1690-04-73
STA 524+09.68
MATCH EXISTING
SAW CUT REQ'D
END CONSTRUCTION 1690-04-62
DITCH BOTTOM (TYP.)
SLOPE INTERCEPT (TYP.)
UNDERGROUND GAS - WE ENERGIES
BOTTOM OF ROCK FACE (TYP.)
R300'
TOP OF SLOPE (TYP.)
EXISTING R/W

CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG02	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
CG03	CONCRETE CURB & GUTTER 30-INCH TYPE A
CGO4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A (8-INCH THICK)
CG05	CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R
CG06	CONCRETE CURB & GUTTER 18-INCH TYPE A (REVERSE SLOPE)
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
HP01	6-INCH HMA PAVEMENT 4 MT 58-28 S
HP02	5-INCH HMA PAVEMENT 4 MT 58-28 S
HP03	7-INCH HMA PAVEMENT 4 MT 58-28 S
DW01	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
DW02	6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
DW03	CONCRETE DRIVEWAY 6-INCH
CP01	CONCRETE PAVEMENT 9-INCH
CTAR	CONCRETE TRUCK APRON 12-INCH COLORING CONCRETE WISDOT RED
CM01	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
CM02	CONCRETE MEDIAN SLOPED NOSE (TYPE 2)
AF01	ASPHALTIC FLUMES
CS01	CONCRETE SIDEWALK 4-INCH
XXXXX	SAWING ASPHALT
XXXXX	SAWING CONCRETE

- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE A
- CG04 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A (8-INCH THICK)
- CG05 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R
- CG06 CONCRETE CURB & GUTTER 18-INCH TYPE A (REVERSE SLOPE)
- CG07 CONCRETE CURB & GUTTER 30-INCH TYPE D
- HP01 6-INCH HMA PAVEMENT 4 MT 58-28 S
- HP02 5-INCH HMA PAVEMENT 4 MT 58-28 S
- HP03 7-INCH HMA PAVEMENT 4 MT 58-28 S

STATION & OFFSET TABLE (2)				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
13	533+03.24'SB'	0.00'	188892.44	622378.15
14	532+72.31'NB'	3.00' LT	188861.41	622392.35
15	532+70.62'SB'	3.00' RT	188860.28	622383.99
16	533+60.78'SB'	9.00' RT	188950.07	622384.63
17	533+61.48'SB'	4.05' RT	188950.68	622379.67
18	18+08.17'EB'	4.50' LT	188675.75	622526.30
19	17+76.23'EB'	19.00' RT	188636.67	622519.54
20	18+31.80'WB'	20.77' LT	188709.80	622528.74

STATION & OFFSET TABLE (2)				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
3	527+87.77'NB'	3.00' LT	188376.87	622417.14
4	527+86.12'SB'	3.00' RT	188375.76	622408.78
5	529+40.55'NB'	4.00' LT	188529.05	622404.18
6	529+35.75'SB'	6.00' RT	188524.56	622389.25
7	17+63.47'EB'	6.00' LT	188645.87	622493.02
8	17+68.84'WB'	4.00' RT	188663.92	622486.41
9	531+22.66'NB'	6.00' LT	188712.58	622411.73
10	531+17.86'SB'	4.00' RT	188708.11	622396.83
11	15+65.67'EB'	4.00' LT	188573.20	622314.52
12	15+84.31'WB'	6.00' RT	188612.60	622308.27

- DW01 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- DW02 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
- DW03 CONCRETE DRIVEWAY 6-INCH
- CP01 CONCRETE PAVEMENT 9-INCH
- CTAR CONCRETE TRUCK APRON 12-INCH COLORING CONCRETE WISDOT RED
- CM01 CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
- CM02 CONCRETE MEDIAN SLOPED NOSE (TYPE 2)
- AF01 ASPHALTIC FLUMES
- CS01 CONCRETE SIDEWALK 4-INCH
- XXXXX SAWING ASPHALT
- XXXXX SAWING CONCRETE

2

2

N

EXISTING LIMTED EASEMENT

EDGE OF WATER (TYP.)

EXISTING R/W

SLOPE INTERCEPT (TYP.)

EXISTING R/W

UNDERGROUND GAS - WE ENERGIES

BOTTOM OF SLOPE (TYP.)

TOP OF SLOPE (TYP.)

UNDERGROUND FIBER-OPTIC - SPECTRUM

FO FO FO FO FO FO FO FO FO FO FO FO FO FO

G G G G G G G G G G G G G G

534+00 'SB' STH 69 SB 535+00 'SB' HP03 536+00 'SB' 537+00 538+00 539+00

534+00 'NB' HP03 535+00 'NB' STH 69 NB 536+00 'NB'

MILL AND OVERLAY

ROUNDABOUT RECONSTRUCTION

EXISTING EDGE OF PAVEMENT (TYP.)

EXISTING AGGREGATE SHOULDER (TYP.)

SLOPE INTERCEPT (TYP.)

EXISTING R/W

EXISTING LIMITED EASEMENT

MATCH LINE 533+70

CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG02	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
CG03	CONCRETE CURB & GUTTER 30-INCH TYPE A
CGO4	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A (8-INCH THICK)
CG05	CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R
CG06	CONCRETE CURB & GUTTER 18-INCH TYPE A (REVERSE SLOPE)
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
HP01	6-INCH HMA PAVEMENT 4 MT 58-28 S
HP02	5-INCH HMA PAVEMENT 4 MT 58-28 S
HP03	7-INCH HMA PAVEMENT 4 MT 58-28 S

DW01	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
DW02	6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
DW03	CONCRETE DRIVEWAY 6-INCH
CP01	CONCRETE PAVEMENT 9-INCH
CTAR	CONCRETE TRUCK APRON 12-INCH COLORING CONCRETE WISDOT RED
CM01	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
CM02	CONCRETE MEDIAN SLOPED NOSE (TYPE 2)
AF01	ASPHALTIC FLUMES
CS01	CONCRETE SIDEWALK 4-INCH

XXXXX SAWING ASPHALT ΔΔΔΔΔ SAWING CONCRETE

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS	SHEET 43	E

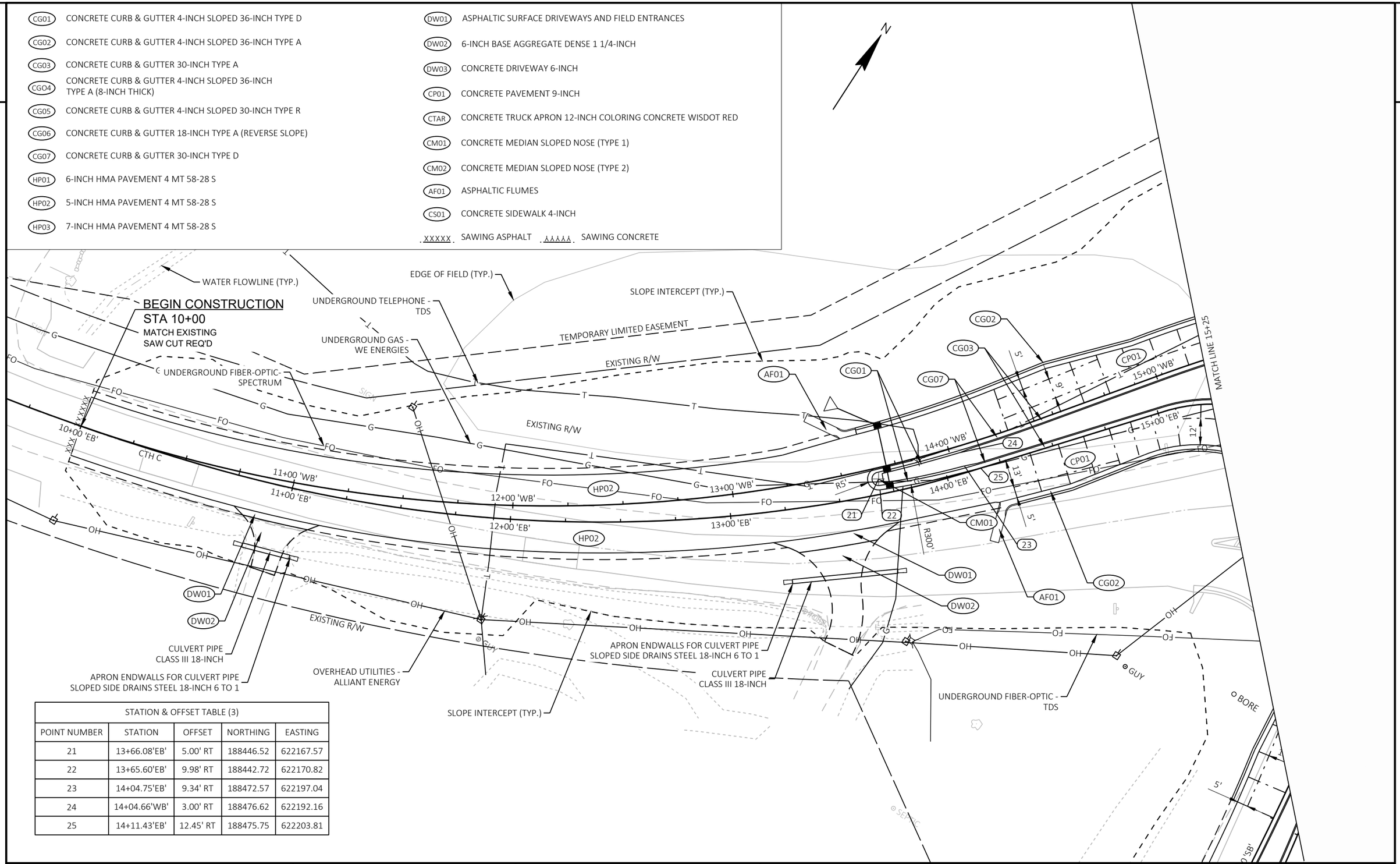
FILE NAME : N:\PDS\C3D\16900403\SHEETS\021201-PD.DWG
LAYOUT NAME - 021208-pd

PLOT DATE : 9/16/2025 2:36 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

- CG01 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG02 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG03 CONCRETE CURB & GUTTER 30-INCH TYPE A
- CGO4 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A (8-INCH THICK)
- CG05 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R
- CG06 CONCRETE CURB & GUTTER 18-INCH TYPE A (REVERSE SLOPE)
- CG07 CONCRETE CURB & GUTTER 30-INCH TYPE D
- HP01 6-INCH HMA PAVEMENT 4 MT 58-28 S
- HP02 5-INCH HMA PAVEMENT 4 MT 58-28 S
- HP03 7-INCH HMA PAVEMENT 4 MT 58-28 S
- DW01 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- DW02 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
- DW03 CONCRETE DRIVEWAY 6-INCH
- CP01 CONCRETE PAVEMENT 9-INCH
- CTAR CONCRETE TRUCK APRON 12-INCH COLORING CONCRETE WISDOT RED
- CM01 CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
- CM02 CONCRETE MEDIAN SLOPED NOSE (TYPE 2)
- AF01 ASPHALTIC FLUMES
- CS01 CONCRETE SIDEWALK 4-INCH
- XXXXX SAWING ASPHALT
- XXXXX SAWING CONCRETE



STATION & OFFSET TABLE (3)				
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING
21	13+66.08'EB'	5.00' RT	188446.52	622167.57
22	13+65.60'EB'	9.98' RT	188442.72	622170.82
23	14+04.75'EB'	9.34' RT	188472.57	622197.04
24	14+04.66'WB'	3.00' RT	188476.62	622192.16
25	14+11.43'EB'	12.45' RT	188475.75	622203.81

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS	SHEET 44	E

2

TEMPORARY LIMITED EASEMENT

UNDERGROUND TELEPHONE-
TDS

SLOPE INTERCEPT (TYP.)

WATER FLOWLINE (TYP.)

EXISTING R/W

CG07

END CONSTRUCTION
STA 19+18.42'EB'
MATCH EXISTING
SAW CUT REQ'D

TOP OF SLOPE (TYP.)

MATCH LINE 18+50

HP02

19+00 'WB'

19+00 'EB'

19+60 'WB'

20+00 'EB'

21+00 'EB'

22+00 'EB'

23+00 'EB'

CTH C (URBAN RD)

EXISTING R/W

SLOPE INTERCEPT (TYP.)

UNDERGROUND FIBER-OPTIC -
TDS

OVERHEAD UTILITIES -
ALLIANT ENERGY

UNDERGROUND GAS -
WE ENERGIES

CG07

N

CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	DW01	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
CG02	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	DW02	6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
CG03	CONCRETE CURB & GUTTER 30-INCH TYPE A	DW03	CONCRETE DRIVEWAY 6-INCH
CG04	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A (8-INCH THICK)	CP01	CONCRETE PAVEMENT 9-INCH
CG05	CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R	CTAR	CONCRETE TRUCK APRON 12-INCH COLORING CONCRETE WISDOT RED
CG06	CONCRETE CURB & GUTTER 18-INCH TYPE A (REVERSE SLOPE)	CM01	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D	CM02	CONCRETE MEDIAN SLOPED NOSE (TYPE 2)
HP01	6-INCH HMA PAVEMENT 4 MT 58-28 S	AF01	ASPHALTIC FLUMES
HP02	5-INCH HMA PAVEMENT 4 MT 58-28 S	CS01	CONCRETE SIDEWALK 4-INCH
HP03	7-INCH HMA PAVEMENT 4 MT 58-28 S	XXXXX	SAWING ASPHALT
		ΔΔΔΔΔ	SAWING CONCRETE

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS	SHEET 45	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\021201-PD.DWG
LAYOUT NAME - 021210-pd

PLOT DATE : 9/16/2025 2:36 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

HP01 6-INCH HMA PAVEMENT 4 MT 58-28 S

DW01 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

DW02 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH

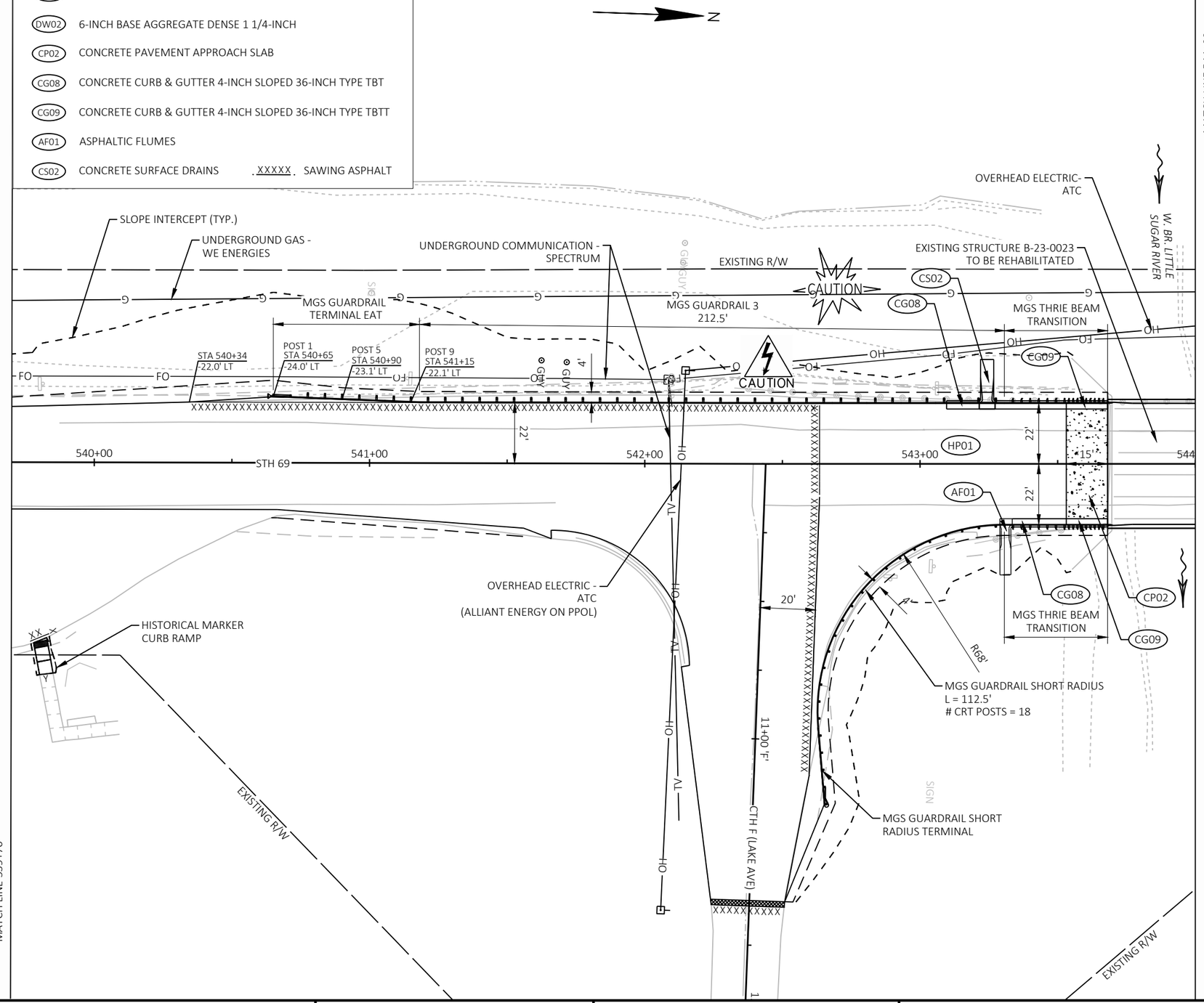
CP02 CONCRETE PAVEMENT APPROACH SLAB

CG08 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT

CG09 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT

AF01 ASPHALTIC FLUMES

CS02 CONCRETE SURFACE DRAINS . XXXXX . SAWING ASPHALT



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS	SHEET 46	E

2

N

UNDERGROUND FIBER-OPTIC-
SPECTRUM

UNDERGROUND GAS -
WE ENERGIES

OVERHEAD ELECTRIC -
ATC

EXISTING R/W

CAUTION

CAUTION

MGS THRIE BEAM
TRANSITION

MGS GUARDRAIL 3

MGS GUARDRAIL
TERMINAL EAT

SLOPE INTERCEPT (TYP.)

Guy

POST 9
STA 545+19
22.1' LT

POST 5
STA 545+44
23.1' LT

POST 1
STA 545+69
24.0' LT

4'

15'

545+00

HP01

546+00

547+00

548+00

549+00

550+00

STH 69

POST 9
STA 544+82
22.1' RT

POST 5
STA 545+07
23.1' RT

POST 1
STA 545+32
24.0' RT

4'

CP02

DW02

MGS THRIE BEAM
TRANSITION

MGS
GUARDRAIL 3

MGS GUARDRAIL
TERMINAL EAT

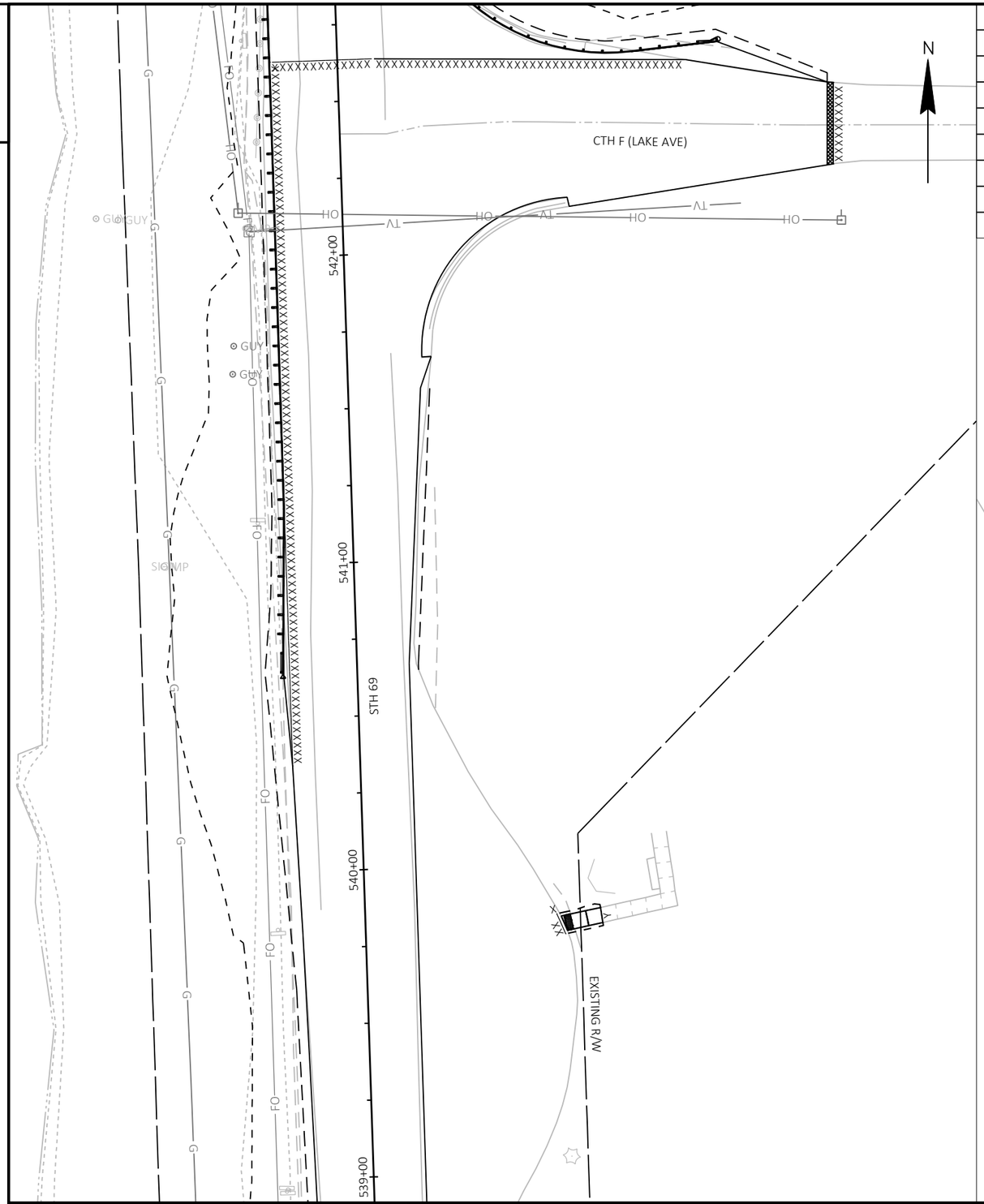
END PROJECT 1690-04-73
STA 546+63
MATCH EXISTING
SAW CUT REQ'D
BEGIN CONSTRUCTION 1690-04-62

EXISTING R/W

MATCH LINE 544+00

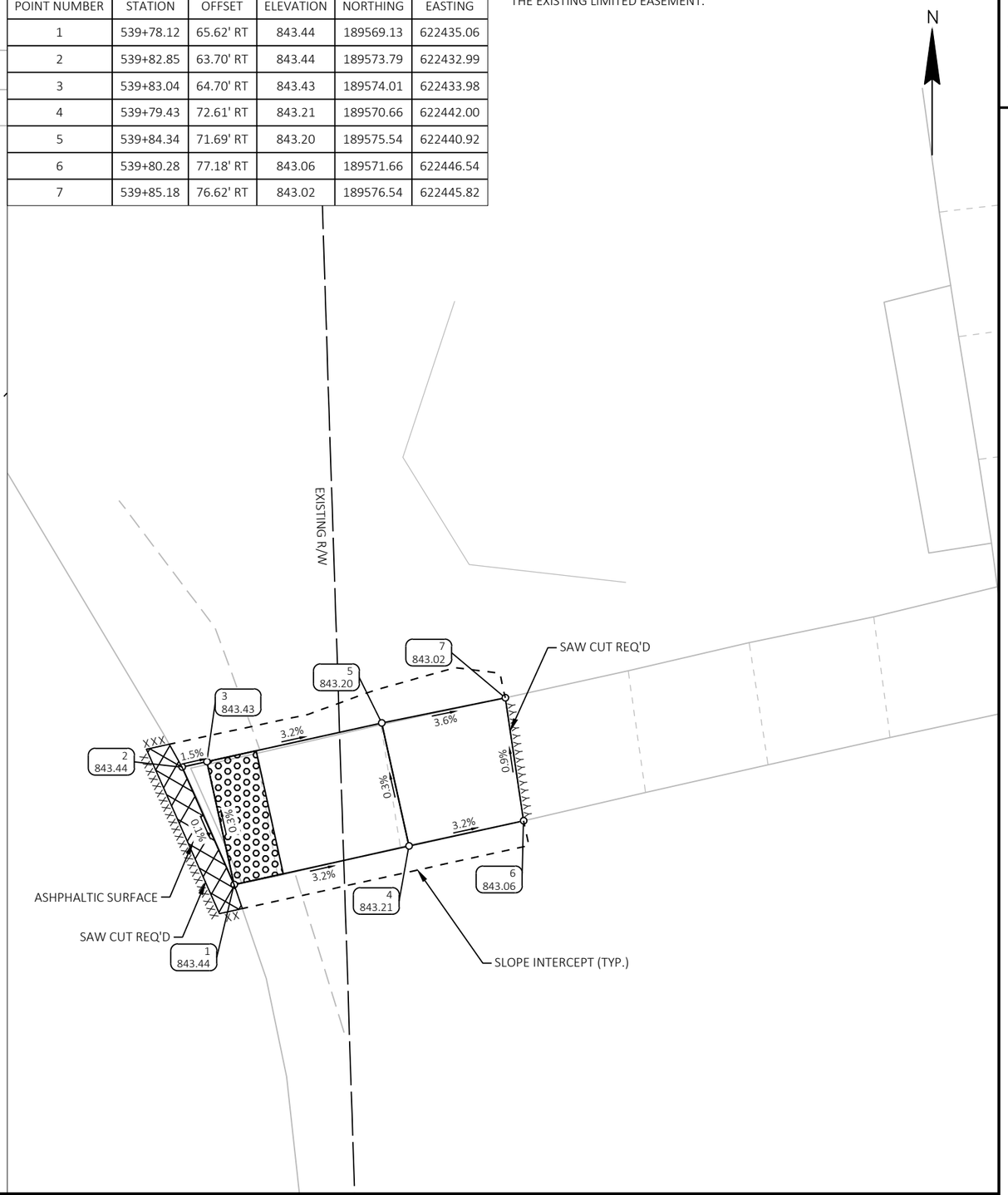
HP01	6-INCH HMA PAVEMENT 4 MT 58-28 S
DW01	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
DW02	6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
CP02	CONCRETE PAVEMENT APPROACH SLAB
CG08	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT
CG09	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT
AF01	ASPHALTIC FLUMES
CS02	CONCRETE SURFACE DRAINS . XXXXX . SAWING ASPHALT

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN DETAILS	SHEET 47	E



HISTORICAL MARKER CURB RAMP					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1	539+78.12	65.62' RT	843.44	189569.13	622435.06
2	539+82.85	63.70' RT	843.44	189573.79	622432.99
3	539+83.04	64.70' RT	843.43	189574.01	622433.98
4	539+79.43	72.61' RT	843.21	189570.66	622442.00
5	539+84.34	71.69' RT	843.20	189575.54	622440.92
6	539+80.28	77.18' RT	843.06	189571.66	622446.54
7	539+85.18	76.62' RT	843.02	189576.54	622445.82

NOTE: CURB RAMP WORK IS WITHIN THE EXISTING LIMITED EASEMENT.



N

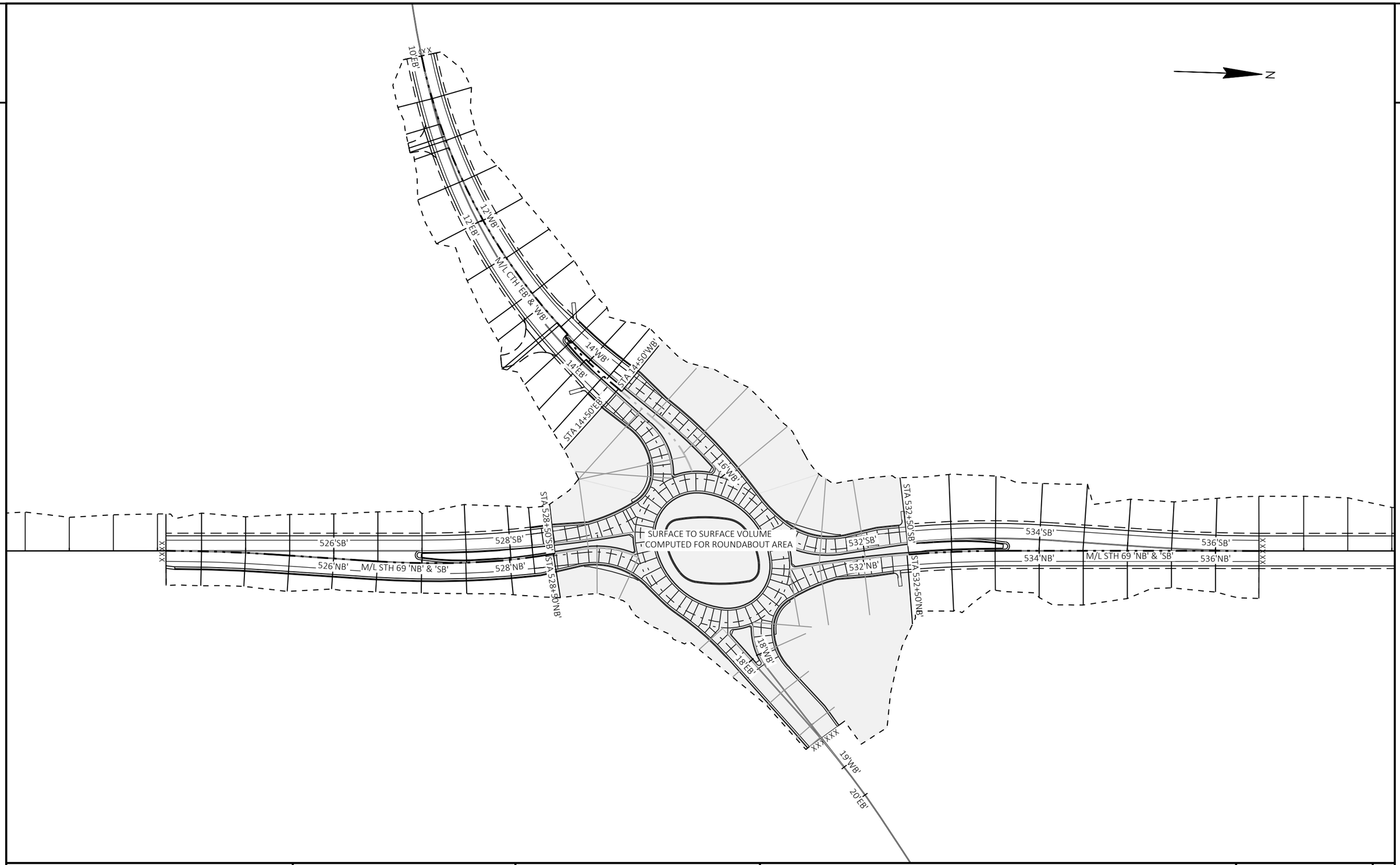
MATCH LINE 531+40

2

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVING GRADES	SHEET 49	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\021401-JD.DWG
LAYOUT NAME - 021401-jd
PLOT DATE : 7/23/2025 2:01 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

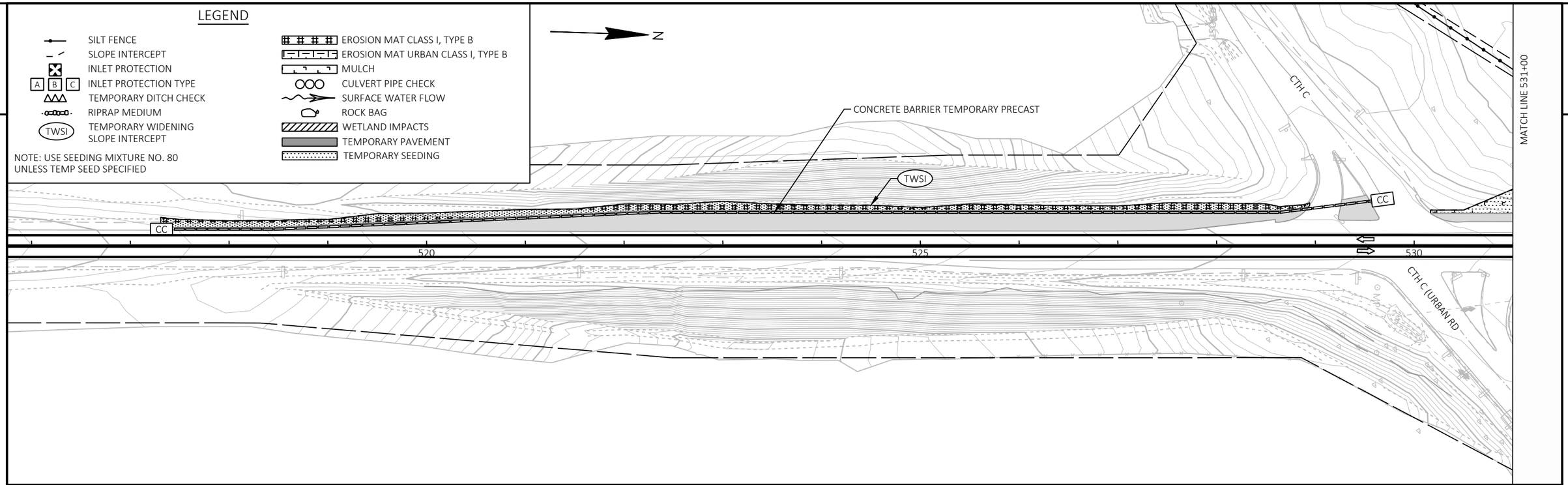


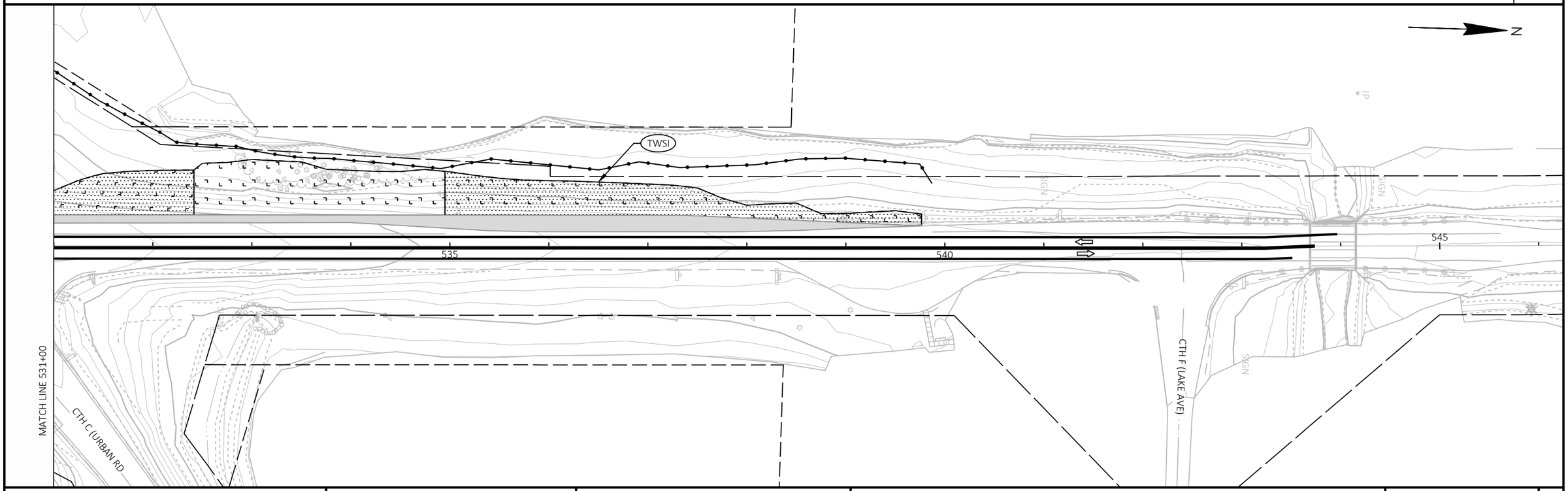
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTION MATCHLINES	SHEET 50	E

LEGEND

- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- A B C INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- RIPRAP MEDIUM
- TWSI TEMPORARY WIDENING SLOPE INTERCEPT
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- MULCH
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ROCK BAG
- WETLAND IMPACTS
- TEMPORARY PAVEMENT
- TEMPORARY SEEDING

NOTE: USE SEEDING MIXTURE NO. 80
UNLESS TEMP SEED SPECIFIED





PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STAGE 1	SHEET 51	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\022001-EC.DWG
LAYOUT NAME - 022001-ec
PLOT DATE : 7/20/2025 12:26 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

LEGEND

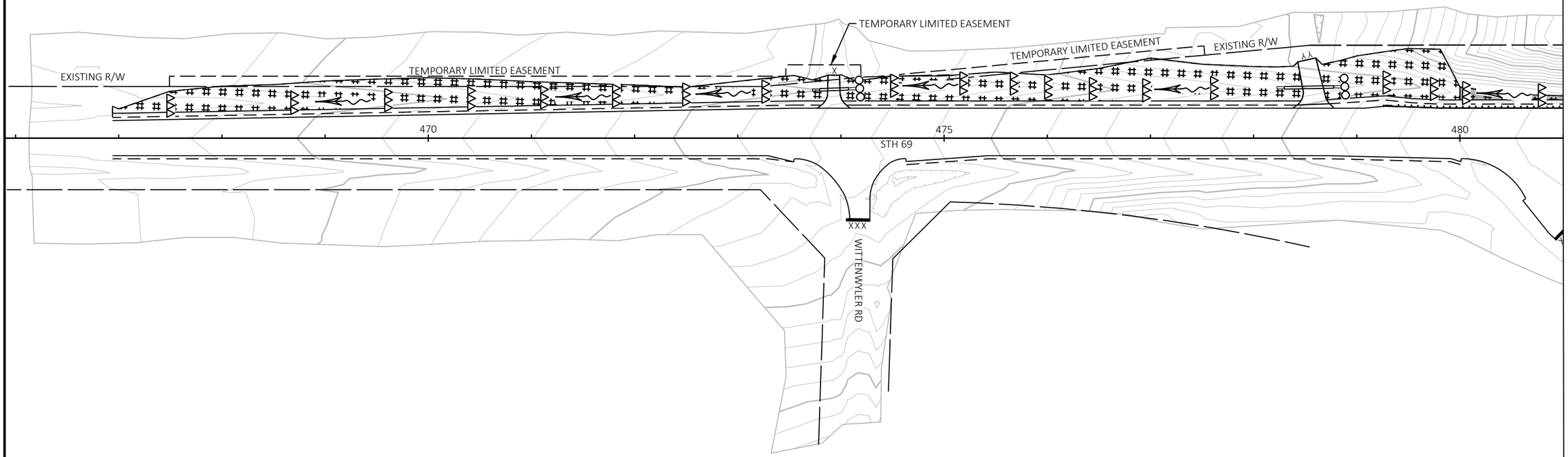
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- A B C INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- RIPRAP MEDIUM
- SEEDING MIXTURE NO. 80
- NATIVE POLLINATOR SEEDING MIXTURE NO. 95A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- MULCH
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ROCK BAG
- WETLAND IMPACTS

NOTE: USE SEEDING MIXTURE NO. 30
UNLESS OTHERWISE SPECIFIED

N

MATCH LINE 481+00

2



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STAGE 3	SHEET 52	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\022002-EC.DWG
LAYOUT NAME - 022002-ec

PLOT DATE : 7/20/2025 12:30 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

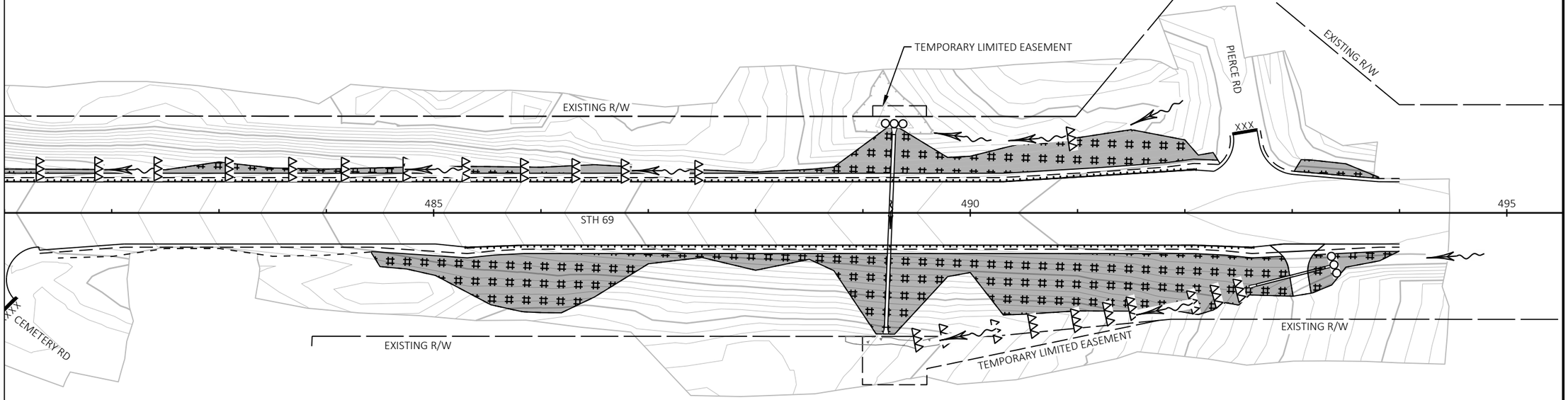
2

N

LEGEND

- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- INLET PROTECTION TYPE (A B C)
- TEMPORARY DITCH CHECK
- RIPRAP MEDIUM
- SEEDING MIXTURE NO. 80
- NATIVE POLLINATOR SEEDING MIXTURE NO. 95A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- MULCH
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ROCK BAG
- WETLAND IMPACTS

NOTE: USE SEEDING MIXTURE NO. 30
UNLESS OTHERWISE SPECIFIED



MATCH LINE 481+00

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STAGE 3	SHEET 53	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\022002-EC.DWG
LAYOUT NAME - 022003-ec

PLOT DATE : 7/20/2025 12:24 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- A B C INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- RIPRAP MEDIUM
- SEEDING MIXTURE NO. 80
- NATIVE POLLINATOR SEEDING MIXTURE NO. 95A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- MULCH
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ROCK BAG
- WETLAND IMPACTS

NOTE: USE SEEDING MIXTURE NO. 30
UNLESS OTHERWISE SPECIFIED

N

MATCH LINE 532+50

2

CTH C

EXISTING R/W

TEMPORARY LIMITED EASEMENT

PROPOSED R/W

WETLAND IMPACT A
2202 SF
0.051 ACRES

EXISTING R/W

520

STH 69

EXISTING R/W

CTH C (URBAN RD)

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STAGE 3	SHEET 54	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\022002-EC.DWG
LAYOUT NAME - 022004-ec

PLOT DATE : 7/20/2025 12:24 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- INLET PROTECTION TYPE (A B C)
- TEMPORARY DITCH CHECK
- RIPRAP MEDIUM
- SEEDING MIXTURE NO. 80
- NATIVE POLLINATOR SEEDING MIXTURE NO. 95A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- MULCH
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ROCK BAG
- WETLAND IMPACTS

NOTE: USE SEEDING MIXTURE NO. 30
UNLESS OTHERWISE SPECIFIED

N

WETLAND BOUNDARY RPE

EXISTING LIMITED EASEMENT

WETLAND BOUNDARY RPE

EXISTING R/W

EXISTING R/W

A C

540

545

EXISTING R/W

EXISTING R/W

EXISTING LIMITED EASEMENT

WETLAND IMPACT B
41 SF
0.001 ACRES

WETLAND BOUNDARY M

MATCH LINE 532+50

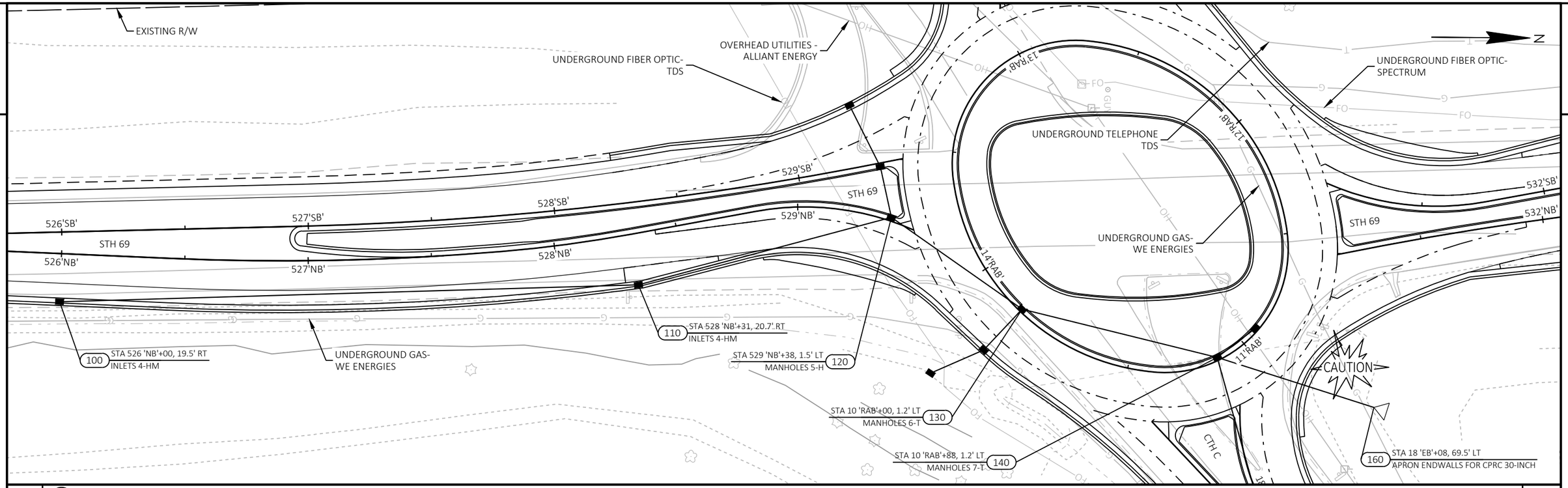
EXISTING R/W

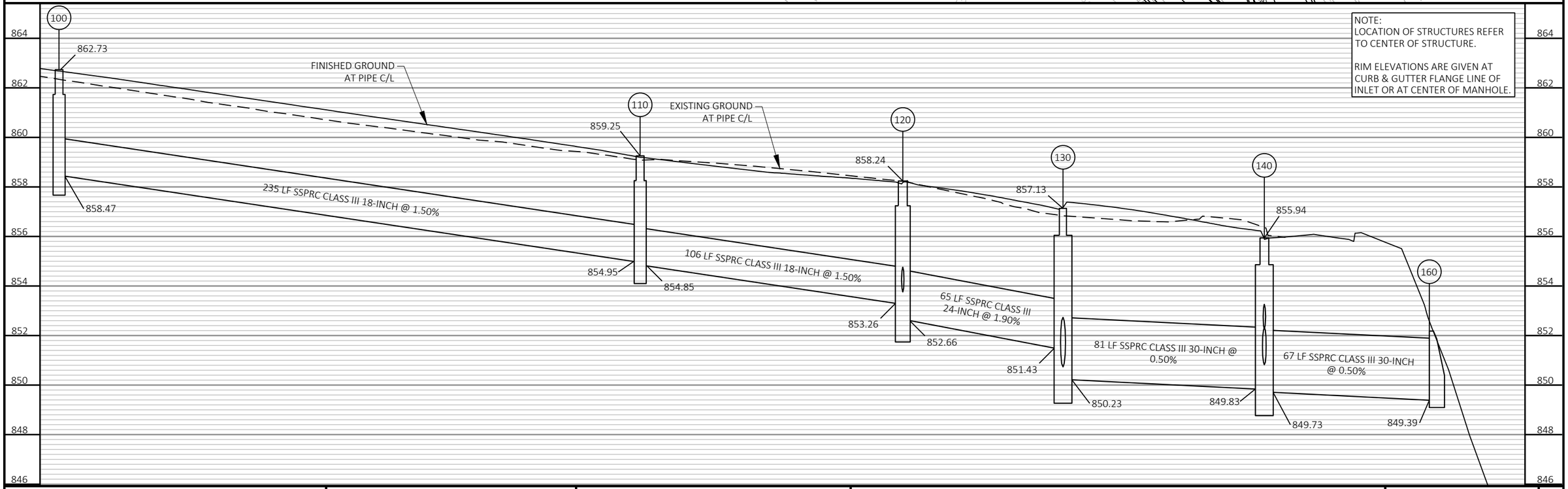
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EROSION CONTROL - STAGE 3	SHEET 55	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\022002-EC.DWG
LAYOUT NAME - 022005-ec

PLOT DATE : 7/20/2025 12:25 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

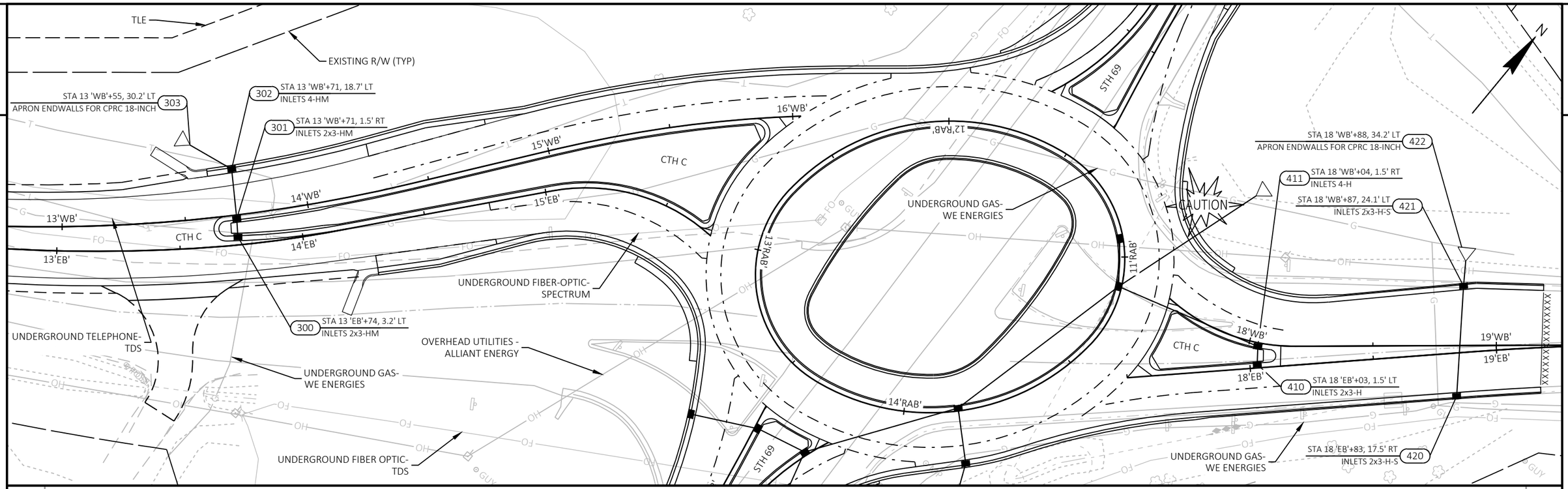
WISDOT/CADDS SHEET 42





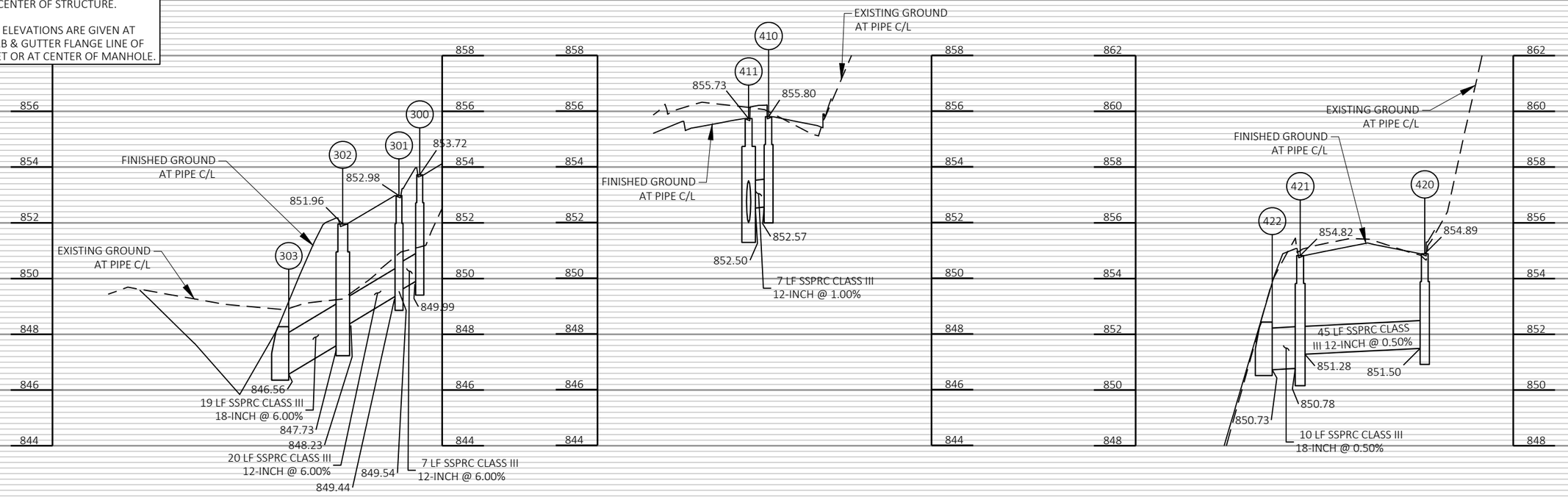
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	STORM SEWER PLAN	SHEET 56 E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\ROUNDABOUT\16900403_022501-SS.DWG
LAYOUT NAME - 01
PLOT DATE : 7/15/2025 6:35 AM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



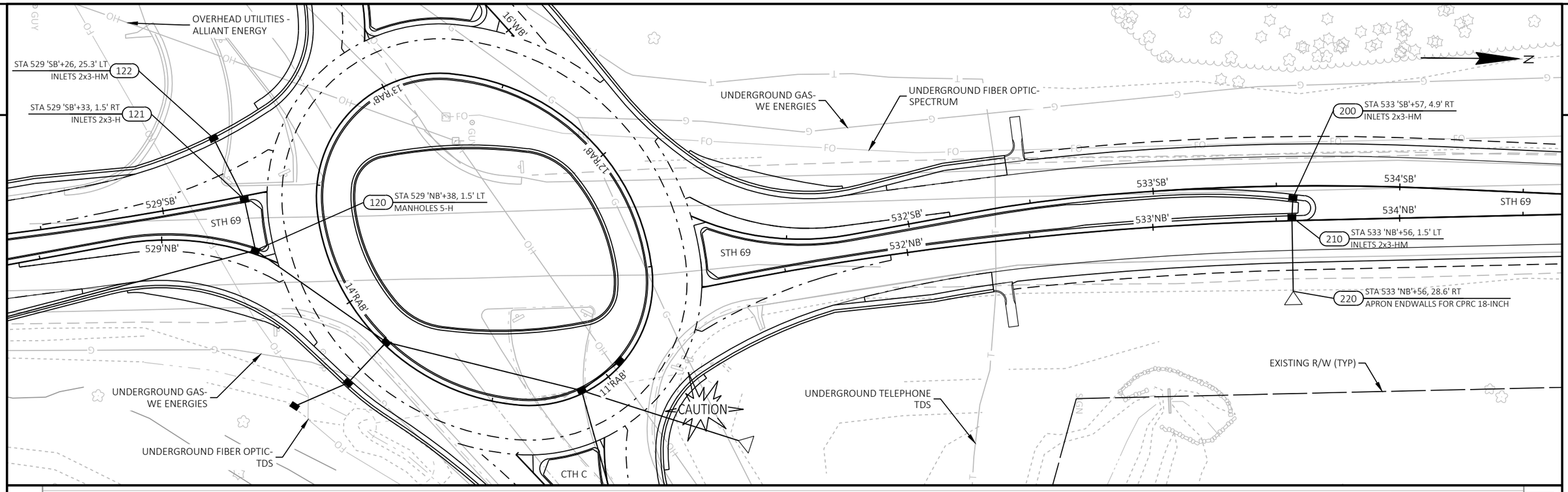
NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

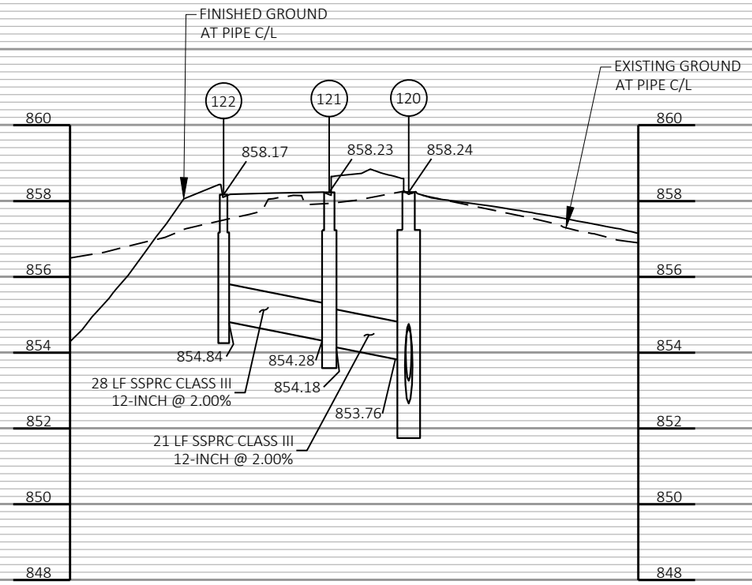
RIM ELEVATIONS ARE GIVEN AT CURB & GUTTER FLANGE LINE OF INLET OR AT CENTER OF MANHOLE.

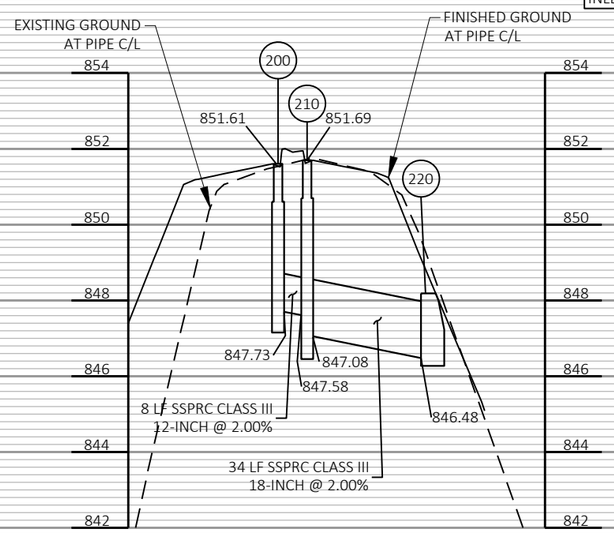


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	STORM SEWER PLAN	SHEET 57	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\ROUNDABOUT\16900403_022501-SS.DWG
LAYOUT NAME - 02
PLOT DATE : 7/15/2025 6:35 AM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



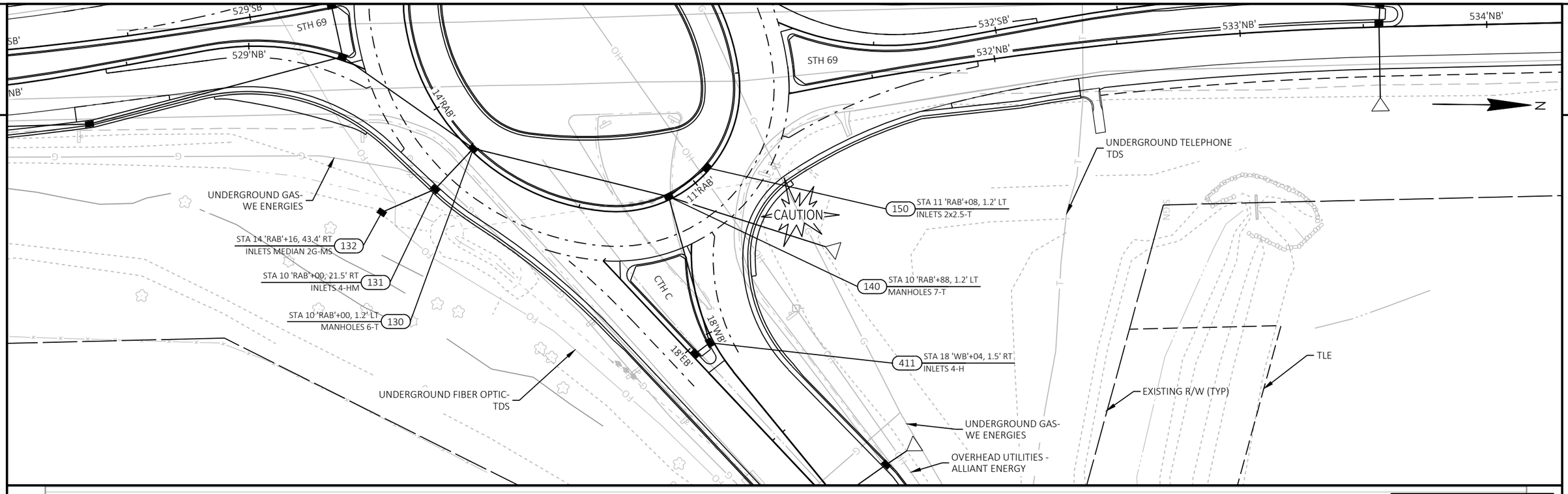


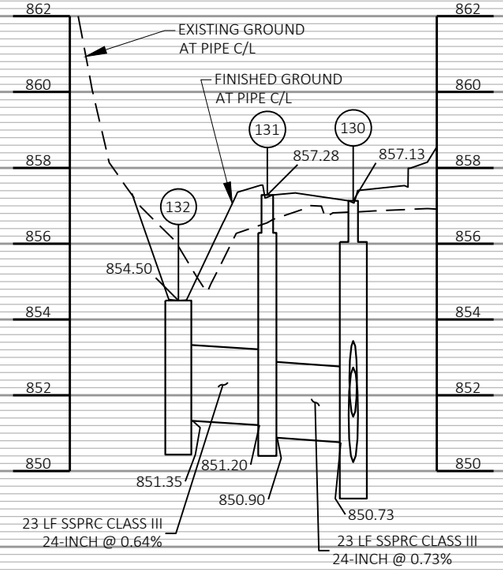


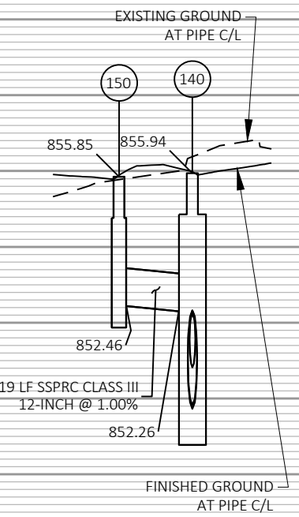
NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

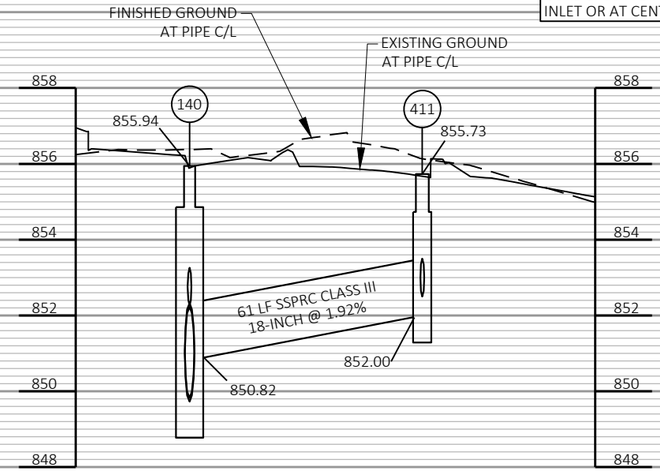
RIM ELEVATIONS ARE GIVEN AT CURB & GUTTER FLANGE LINE OF INLET OR AT CENTER OF MANHOLE.

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	STORM SEWER PLAN	SHEET 58	E









NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT CURB & GUTTER FLANGE LINE OF INLET OR AT CENTER OF MANHOLE.

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	STORM SEWER PLAN	SHEET 59	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\ROUNDABOUT\16900403_022501-SS.DWG
LAYOUT NAME - 04
PLOT DATE : 7/15/2025 6:36 AM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.

N

MATCH LINE 471+06

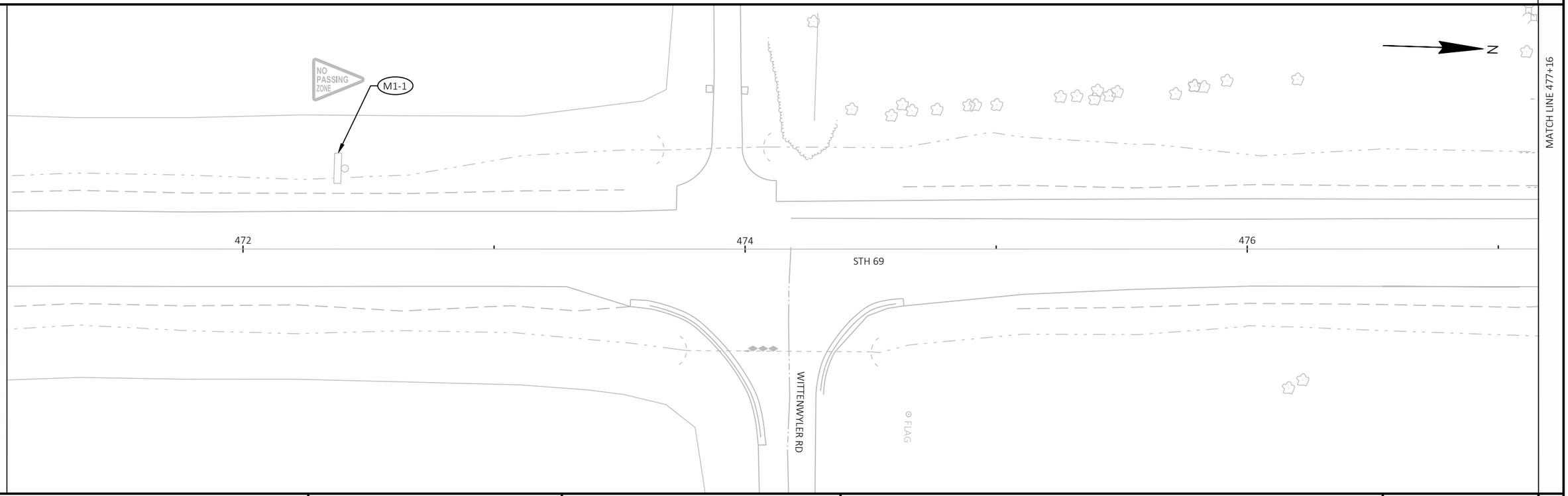
2

466 468 470

STH 69

ESTR

NO PASSING ZONE



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 60	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023201-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

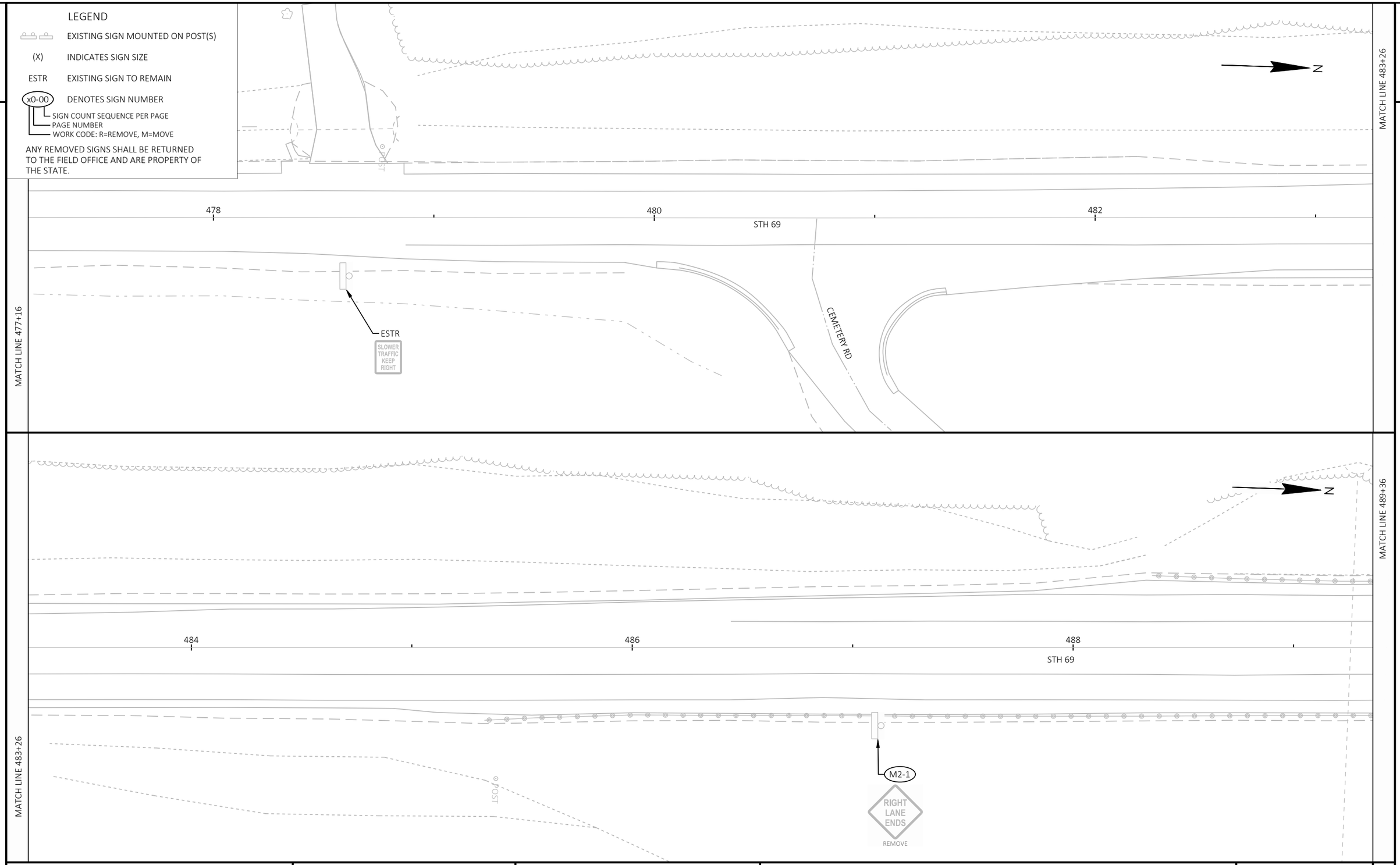
(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.



2

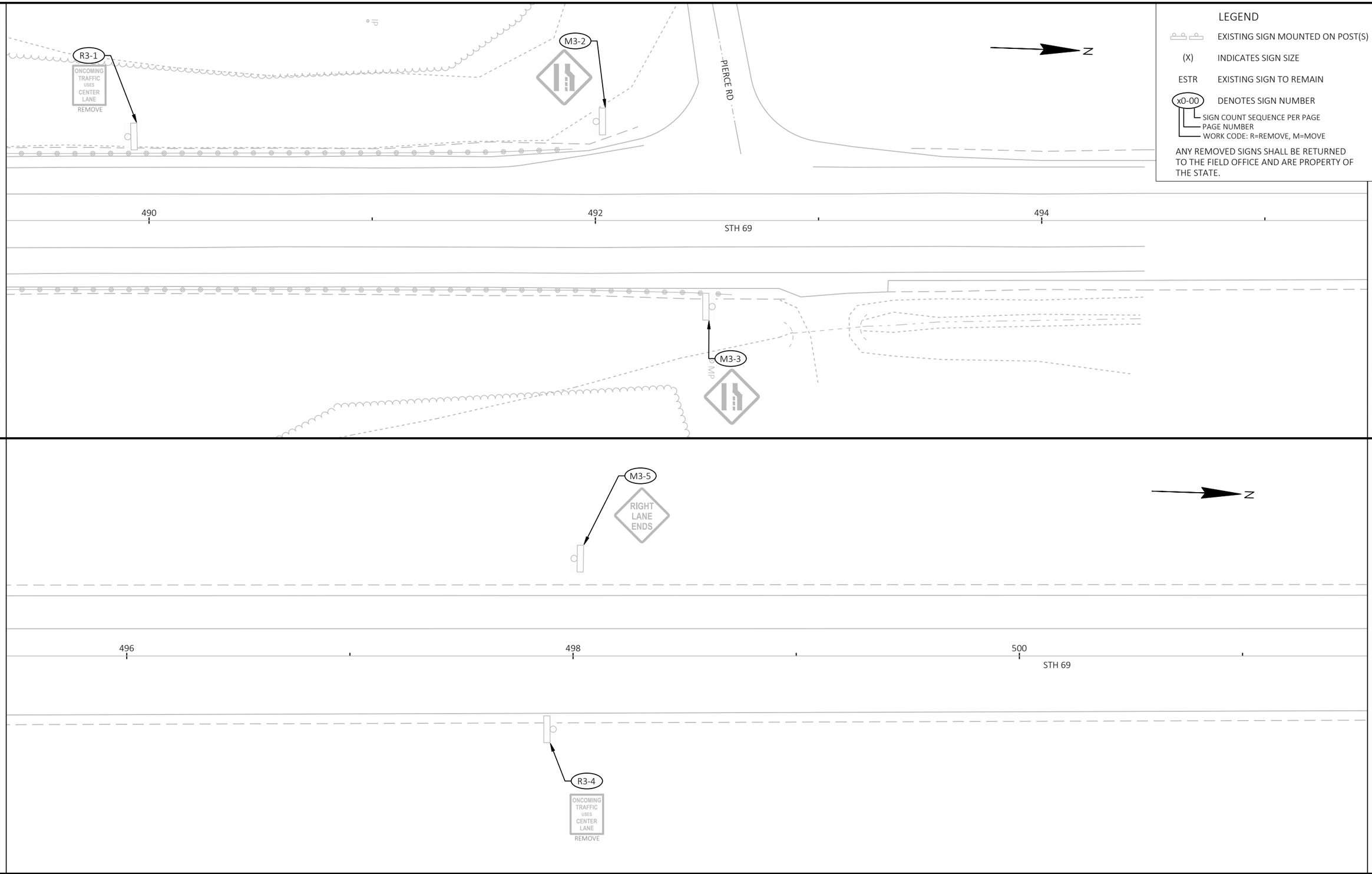
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 61	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023202-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
(X)	INDICATES SIGN SIZE
ESTR	EXISTING SIGN TO REMAIN
x0-00	DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.

2

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 62	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023203-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

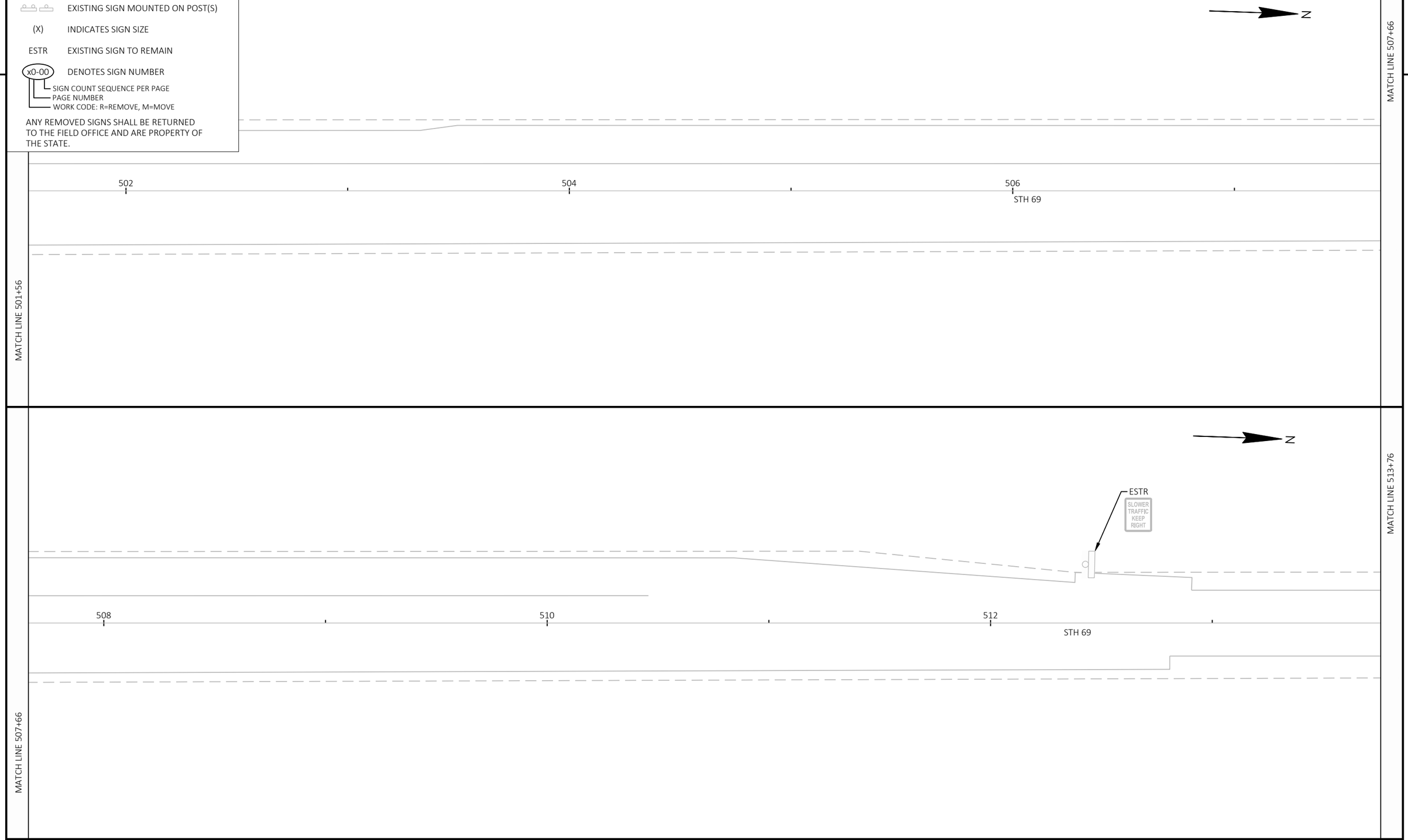
(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 63	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023204-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

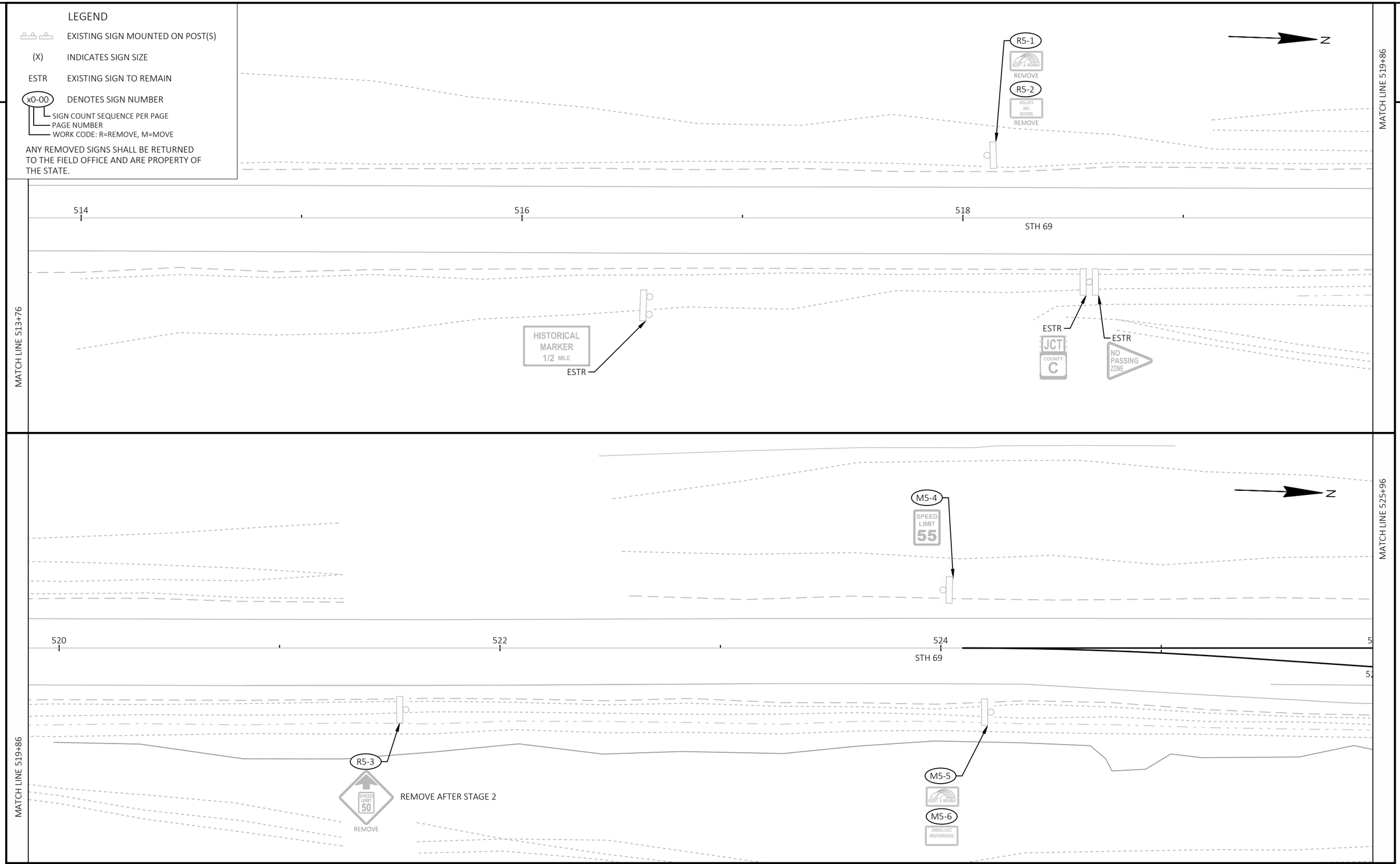
(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 64	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023205-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.

MATCH LINE 525+96

MATCH LINE 532+06

2

N

M6-1 SOUTH 69

R6-3 DO NOT ENTER REMOVE

R6-4 STOP REMOVE

MATCH LINE 15+25

R6-5 REMOVE

R6-7 STOP REMOVE

16'WB'

R6-9 COUNTY C REMOVE

526'SB'

528'SB'

526'NB'

528'NB'

532'SB'

532'NB'

R6-10 REMOVE

M6-2 SPEED LIMIT 50

MOVE TO TEMPORARY SUPPORT FOR STAGE 2, THEN REMOVE FOR STAGE 3

R6-6 COUNTY C REMOVE

MP

R6-8 STOP REMOVE

MATCH LINE 17+75

R6-12 WASHINGTON CHURCH GREEN CARES FOOD PANTRY REMOVE

N

534'SB'

534'NB'

536'NB'

536'SB'

537

538

STH 69

STH 69

MATCH LINE 532+06

MATCH LINE 538+16

M6-11 JCT COUNTY F

M6-13 NEW GLARUS MONTICELLO

R6-14 SPEED LIMIT 50 REMOVE

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 65	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023206-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 538+16

R7-1 NO PASSING ZONE REMOVE

R7-2 SPEED LIMIT 50 REMOVE

M7-3 HISTORICAL MARKER

M7-4 HISTORICAL MARKER

M7-5 JCT COUNTY C

M7-6 COUNTY F

M7-7

M7-10 NO PARKING ANY TIME

MATCH LINE 544+15

2

540

542

544

STH 69

CTH F (LAKE AVE)

ESTR ZWINGLI-U.C.C

ESTR COUNTY F

M7-11 NO PARKING ANY TIME

LAKE AVE REMOVE

R7-9

M7-8 STOP REMOVE

N

M7-13 NO PARKING ANY TIME

R7-15 SPEED LIMIT 50 REMOVE GUY

MATCH LINE 550+00

546

548

STH 69

M7-12 SOUTH 69

SPEED LIMIT 50 REMOVE

R7-14

M7-16 NO PARKING ANY TIME

MATCH LINE 544+15

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 66	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023207-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 550+00

WASHINGTON RD

MATCH LINE 555+75

2

550

552

554

STH 69

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

SIGN COUNT SEQUENCE PER PAGE
PAGE NUMBER
WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.

N

W COATES AVE

MATCH LINE 561+70

R8-2

SPEED LIMIT 50

REMOVE

556

558

560

STH 69

MATCH LINE 555+75

N

R8-1

SPEED LIMIT 50

REMOVE

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 67	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023208-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

MATCH LINE 561+70

562

564

STH 69

566

MATCH LINE 567+65

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.

N

MATCH LINE 567+65

R9-1

SPEED LIMIT 50

REMOVE

R9-2

SPEED LIMIT 50

REMOVE

568

570

STH 69

572

ESTR

SPEED LIMIT 55

N

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 68	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023209-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.

N

R10-1
SPEED LIMIT 55
REMOVE

6'EB'
CTH C
8'EB'
10'EB'

ESTR

R10-2
REMOVE

POST

M10-3
NEW GLARUS
MONROE

MATCH LINE 15+25

2

N

14'WB'
14'EB'

R10-5
COUNTY C
REMOVE

R10-6
REMOVE

12'WB'
12'EB'
CTH C

POST

R10-4
69
REMOVE

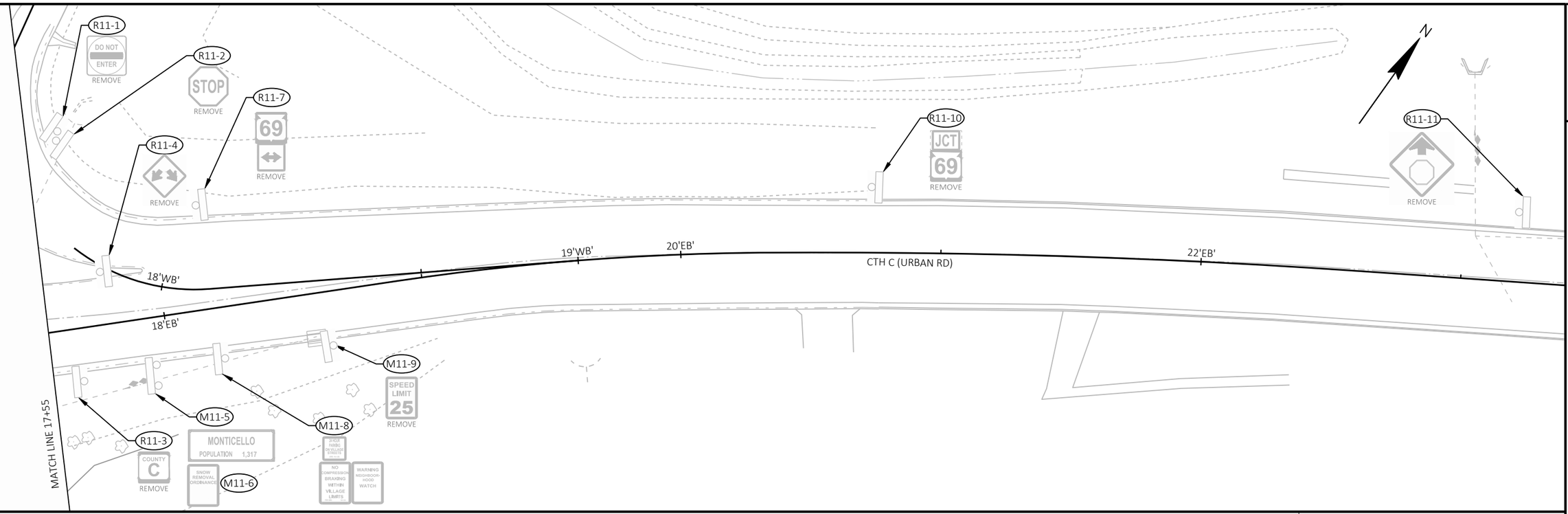
MATCH LINE 15+50

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 69	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023210-es

PLOT DATE : 7/20/2025 11:08 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
(X)	INDICATES SIGN SIZE
ESTR	EXISTING SIGN TO REMAIN
x0-00	DENOTES SIGN NUMBER

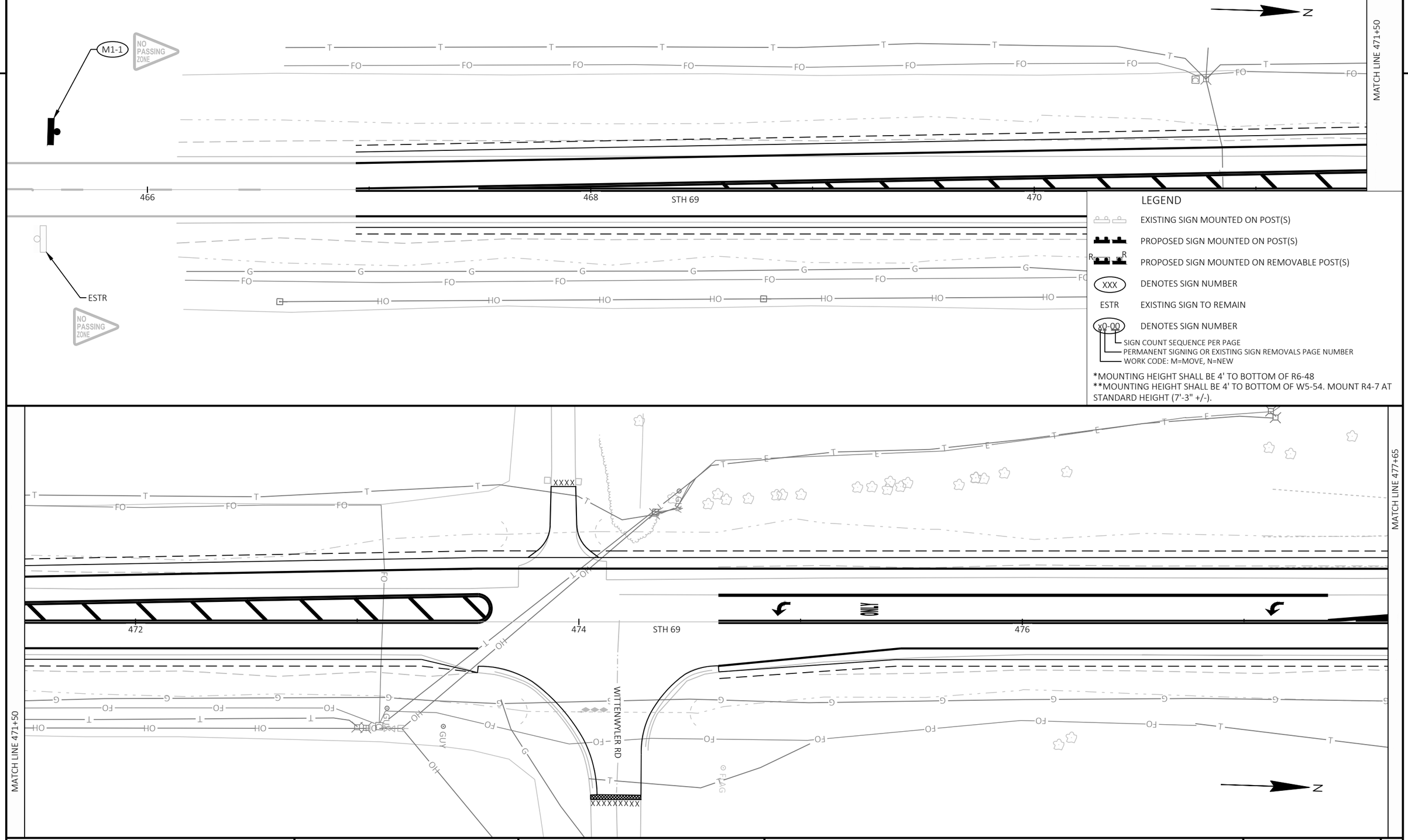
- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, M=MOVE

ANY REMOVED SIGNS SHALL BE RETURNED TO THE FIELD OFFICE AND ARE PROPERTY OF THE STATE.

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	EXISTING SIGN REMOVALS	SHEET 70	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-ES.DWG
LAYOUT NAME - 023211-es
PLOT DATE : 7/20/2025 11:09 AM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2



LEGEND

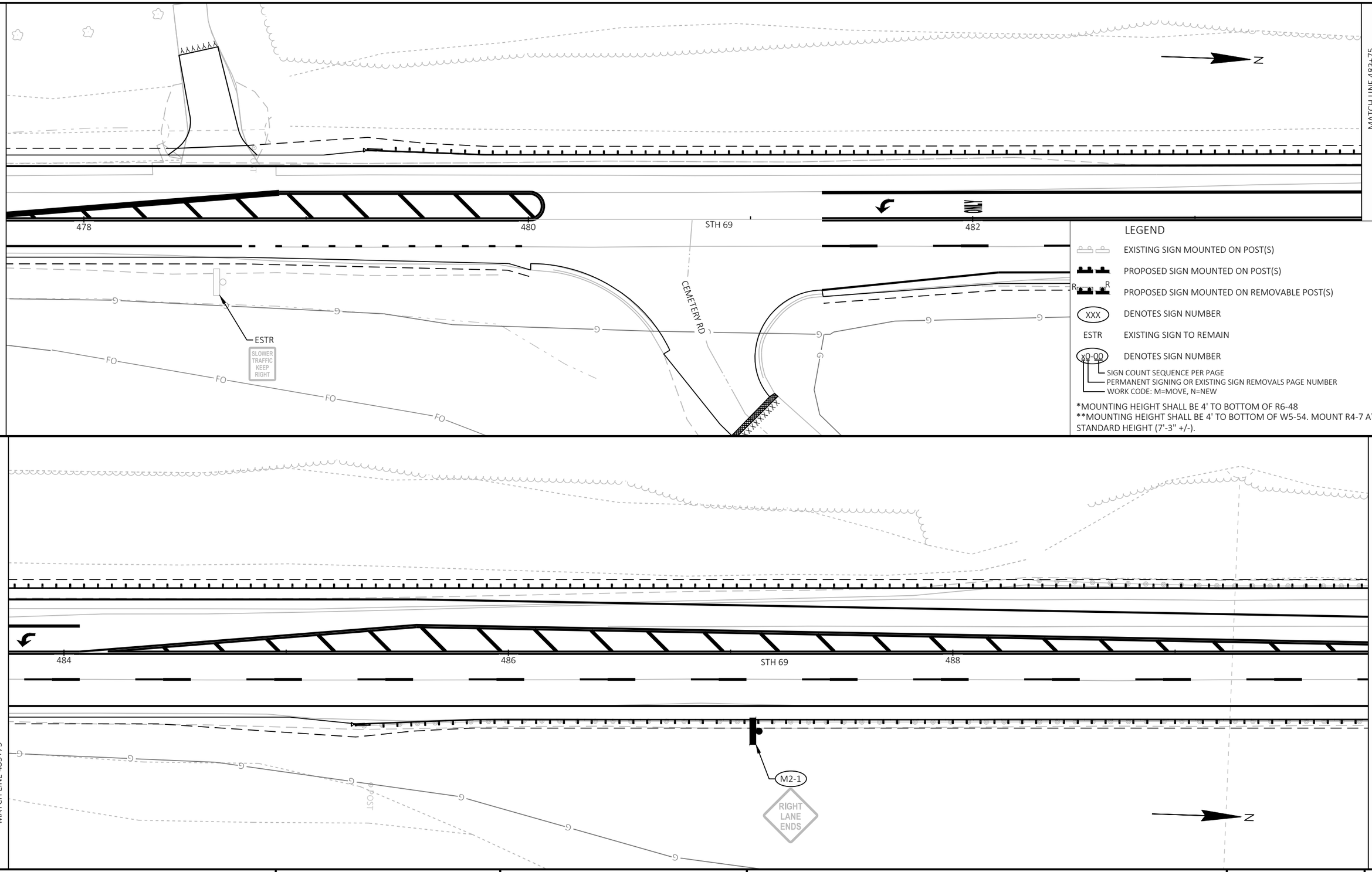
- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)
- XXX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- x0-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
  - WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 71	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023201-ps
PLOT DATE : 7/20/2025 11:15 AM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2



2

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 72	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023202-ps

PLOT DATE : 7/20/2025 11:15 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

MATCH LINE 489+87

PIERCE RD

490 492 494

STH 69

M3-3

MATCH LINE 496+00

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)
- XXX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- x0-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
  - WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

MATCH LINE 496+00

M3-2

498 500 502

STH 69

N3-1

ONCOMING TRAFFIC USES CENTER LANE

W6-60
36"X36"

N3-2

W4-2R
36"X36"

MATCH LINE 502+15

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 73	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023203-ps

PLOT DATE : 7/20/2025 11:15 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 502+15

N

M3-5

RIGHT LANE ENDS

504

506

508

STH 69

MATCH LINE 508+25

2

N4-1

RIGHT LANE ENDS

W9-1R
36"X36"

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX — DENOTES SIGN NUMBER

ESTR — EXISTING SIGN TO REMAIN

x0-00 — DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
- WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

ESTR

SLOWER TRAFFIC KEEP RIGHT

510

512

514

STH 69

MATCH LINE 508+25

MATCHLINE 514+35

N

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 74	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023204-ps

PLOT DATE : 7/20/2025 11:15 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

R R PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- x — SIGN COUNT SEQUENCE PER PAGE
- 0 — PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
- 00 — WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

N

MATCH LINE 520+40

2

516

518

520

STH 69

ESTR

HISTORICAL MARKER 1/2 MILE

ESTR

JCT COUNTY C

ESTR

NO PASSING ZONE

MATCHLINE 541+35

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 75	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023205-ps

PLOT DATE : 7/20/2025 11:15 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
- WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

N

MATCH LINE 526+40

522

524

STH 69

526'SB'

526'NB'

N6-1 W2-6 30"X30"

N6-2 20 MPH W13-1 18"X18"

N6-3

D1-62 96"X66"

M5-5 I55-56 30"X18"

M5-6 I55-56P 30"X18"

MATCH LINE 520+40

2

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 76	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023206-ps

PLOT DATE : 7/20/2025 11:15 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)
- XXX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- x0-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
  - WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

MATCH LINE 526+40

MATCH LINE 532+45

2

N

N7-1 DO NOT ENTER R5-1 30"X30"

M5-4 SPEED LIMIT 55

M6-1 SOUTH 69

N7-4 WRONG WAY R5-1A 36"X24"

SOUTH 69 D1-67 42"X30"

N7-5

YIELD R1-2 36"X31"

N7-8

N7-9

MATCHLINE 15+00

N7-14 WEST C D1-67 42"X30"

16'WB'

528'SB'

528'NB'

N7-10

N7-11

R6-1R 36"X12" ONE WAY

W5-54 18"X18"

N7-12

N7-13

N7-16

N7-17

N7-18

N7-19

532'SB'

532'NB'

N7-23

N7-24

YIELD R1-2 36"X31"

N7-6

N7-7

YIELD R1-2 36"X31"

N7-2 R4-7 24"X30"

N7-3 W5-54 18"X18"

C EAST Urban Rd D1-68 72"X30"

N7-15

N7-25

NORTH 69 D1-67 42"X30"

N7-26 NORTH 69 J1-1 24"X39"

N7-27 DO NOT ENTER R5-1 30"X30"

N7-22

N7-20

YIELD R1-2 36"X31"

18'WB'

18'EB'

Monticello POPULATION 1192 I2-3 72"X24"

M11-5

N7-21 R4-7 24"X30"

M11-6

M11-8

SNOW REMOVAL ORDINANCE

STATE PARKING ON VILLAGE STREETS

NO COMPRESSION BRAKING WITHIN VILLAGE LIMITS

WARNING NEIGHBOORHOOD WATCH

MATCHLINE 18+55

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 77	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023207-ps

PLOT DATE : 7/20/2025 11:15 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX — DENOTES SIGN NUMBER

ESTR — EXISTING SIGN TO REMAIN

x0-00 — DENOTES SIGN NUMBER
- SIGN COUNT SEQUENCE PER PAGE
- PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
- WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

N

D1-62
96"X66"
69 SOUTH
EAST C
WEST C

N8-5

N8-6

N8-7

W2-6
30"X30"

W13-1
18"X18"
20 MPH

MATCH LINE 538+40

2

FO FO FO FO FO FO FO FO FO FO FO FO FO

534'SB'

534'NB'

536'SB'

536'NB'

STH 69

538

M6-11
JCT
COUNTY F
J1-1
24"X39"

N8-1
R4-7
24"X30"
W5-54
18"X18"
N8-2

N8-4
WRONG WAY
R5-1A
36"X24"

N8-3
SPEED LIMIT 45
R2-1
24"X30"

M6-13
New Glarus
Monticello
D1-2
78"X30"

ESTR
ZWINGLI-U.C.C

MATCH LINE 532+45

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 78	E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER

- SIGN COUNT SEQUENCE PER PAGE
- PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
- WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

N

MATCH LINE 543+90

HISTORICAL MARKER

HISTORICAL MARKER

M7-3

M7-4

M7-5

JCT COUNTY C

M7-6

COUNTY F

M7-7

M7-10

NO PARKING

M7-11

NO PARKING

M7-8

STOP

ESTR

COUNTY F

STH 69

CTH F (LAKE F)

540

542

MATCH LINE 538+40

2

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 79	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023209-ps

PLOT DATE : 7/20/2025 11:16 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)
- XXX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- x0-00 — DENOTES SIGN NUMBER
  - 1st: SIGN COUNT SEQUENCE PER PAGE
  - 2nd: PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
  - 3rd: WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

N

M7-12 — SOUTH 69

M7-13 — NO PARKING ANY TIME

N10-1 — SPEED LIMIT 45, R2-1, 24"X30"

M7-16 — NO PARKING ANY TIME

N10-2 — SPEED LIMIT 45, R2-1, 24"X30"

N10-3 — SPEED LIMIT 45, R2-1, 24"X30"

N10-4 — SPEED LIMIT 45, R2-1, 24"X30"

N10-5 — SPEED LIMIT 45, R2-1, 24"X30"

N10-6 — SPEED LIMIT 45, W3-5, 36"X36"

ESTR — SPEED LIMIT 55

STH 69

544 546 548 552 554 556 558 560 562 564 566 568 570 572

MATCH LINE 543+90

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 80	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023210-ps

PLOT DATE : 7/20/2025 11:16 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)
- XXX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- x0-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
  - WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

MATCH LINE STA 15+00

CTH C
10'EB'
12'WB'
12'EB'
14'WB'
14'EB'

N11-3 — DO NOT ENTER — R5-1 30"X30"
N11-4 — SPEED LIMIT 45 — R2-1 24"X30"
N11-8 — WRONG WAY — R5-1A 36"X24"
N11-9 — WEST COUNTY C — J1-1 24"X39"

M10-3 — New Glarus / Monroe — D1-2 78"X30"
N11-1 — W2-6 30"X30" / 20 MPH — W13-1 18"X18"
N11-2
D1-62 108"X66" — C EAST / NORTH 69 / SOUTH 69
N11-5
N11-6 — R4-7 24"X30"
N11-7 — W5-54 18"X18"

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 81	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023211-ps
PLOT DATE : 7/20/2025 11:16 AM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

2

D1-62
108"X66"

C WEST
SOUTH 69
NORTH 69

N12-2

N12-3

W2-6
30"X30"

15 MPH
W13-1
18"X18"

N12-4

M11-9

SPEED LIMIT 25

N12-1

EAST
COUNTY C
J1-1
24"X39"

CTH C (URBAN RD)

19'WB'

20'EB'

22'EB'

MATCH LINE 18+50

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

x0-00 DENOTES SIGN NUMBER
- SIGN COUNT SEQUENCE PER PAGE
- PERMANENT SIGNING OR EXISTING SIGN REMOVALS PAGE NUMBER
- WORK CODE: M=MOVE, N=NEW

*MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-48
**MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-).

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET 82	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023201-PS.DWG
LAYOUT NAME - 023212-ps

PLOT DATE : 7/20/2025 11:16 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- LIGHT POLE, ARM MOUNTED LUMINAIRE
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- PULL BOXES NON-CONDUCTIVE, 24X42-INCH

STATION — OFFSET — PULL BOX OR LIGHT POLE NUMBER

STA 10+00'NB', 15' LT - LB01
LED C - 6 - 5 - 4 - 1,3

LUMINAIRE TYPE
MAST ARM LENGTH (FT)
BASE TYPE
POLE TYPE
CIRCUIT

N

STA 528+86'NB', 189.5'LT - LB2
LED B -12 - 5 - 5 - 1,2

STA 529+20'NB', 117'LT - LB1
LED B - 12 - 5 - 5 - 1,1

STA 529+23'NB', 108'LT - PB1

CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

CONTROL CABINET "A"
529+38'NB', 80' LT

CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

STA 529+18'NB', 55' LT - PB7

STA 529+14'NB', 53' LT - LB15
LED B - 12 - 5 - 5 - 2,1

CONDUIT SPECIAL 2-INCH

MATCH LINE 530+50

16'WB'

526'SB'

526'NB'

528'SB'

528'NB'

STA 526+40'NB', 24' RT - LB14
LED B - 12 - 5 - 5 - 2,4

STA 527+92'NB', 24' RT - LB13
LED B - 12 - 5 - 5 - 2,3

STA 529+01'NB', 32' RT - LB12
LED B - 12 - 5 - 5 - 2,2

STA 529+41'NB', 29' RT - PB6

STA 530+14'NB', 86' RT - LB11
LED B - 12 - 5 - 5 - 2,5

STA 530+19'NB', 88' RT - PB5

2

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	LIGHTING PLAN	SHEET 83	E

2

LEGEND

- LIGHT POLE, ARM MOUNTED LUMINAIRE
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- PULL BOXES NON-CONDUCTIVE, 24X42-INCH

STATION ┐ OFFSET ┐ ┌ PULL BOX OR LIGHT POLE NUMBER
STA 10+00'NB', 15' LT - LB01
LED C - 6 - 5 - 4 - 1,3
LUMINAIRE TYPE ┘ │ │ │ └ CIRCUIT
MAST ARM LENGTH (FT) ┘ │ │ └ POLE TYPE
└ BASE TYPE

N

STA 530+41'NB', 129' LT - LB4
LED B - 12 - 5 - 5 - 1,4

STA 530+52'NB', 117' LT - PB2

STA 531+60'NB', 45' LT - PB3

STA 531+70'NB', 41' LT - LB5
LED B - 12 - 5 - 5 - 1,5

CONDUIT SPECIAL 2-INCH

STA 532+65'NB', 41' LT - LB6
LED B - 12 - 5 - 5 - 1,6

STA 533+71'NB', 36' LT - LB7
LED B - 12 - 5 - 5 - 1,7

532'SB'

532'NB'

534'SB'

534'NB'

536'SB'

536'NB'

STA 531+33'NB', 34'RT - LB8
LED B - 12- 5 - 5 - 2,6

STA 531+22'NB', 42'RT - PB4

STA 531+15'NB', 107' RT - LB9
LED B - 12 - 5 - 5 - 2,7

STA 531+41'NB', 164'LT - LB10
LED B - 12 - 5 - 5 - 2,8

18'WB'

18'EB'

SIGN

MATCH LINE 530+50

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	LIGHTING PLAN	SHEET 84	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\023601-LP.DWG
LAYOUT NAME - 023602-lp

PLOT DATE : 7/8/2025 1:49 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

STA 531+60'NB', 45' LT - PB3

STA 530+41'NB', 129' LT - LB4
LED B - 12 - 5 - 5 - 1,4

STA 530+52'NB', 117' LT - PB2

STA 531+70'NB', 41' LT - LB5
LED B - 12 - 5 - 5 - 1,5

532'SB'

532'NB'

14'WB'

14'EB'

16'WB'

CONDUIT SPECIAL 2-INCH

STA 528+17'NB', 285.5' LT - LB3
LED B - 12 - 5 - 5 - 1,3

STA 531+33'NB', 34'RT - LB8
LED B - 12 - 5 - 5 - 2,6

STA 528+86'NB', 189.5'LT - LB2
LED B -12 - 5 - 5 - 1,2

STA 529+20'NB', 117'LT - LB1
LED B - 12 - 5 - 5 - 1,1

STA 529+23'NB', 108'LT - PB1

STA 531+22'NB', 42'RT - PB4

2 CONDUIT RIGID NONMETALLIC SCHEDULE 40-3 INCH

CONTROL CABINET "A"
529+38'NB', 80' LT

2 CONDUIT RIGID NONMETALLIC SCHEDULE 40-3 INCH

STA 531+15'NB', 107' RT - LB9
LED B - 12 - 5 - 5 - 2,7

STA 531+41'NB', 164'LT - LB10
LED B - 12 - 5 - 5 - 2,8

STA 529+18'NB', 55' LT - PB7

STA 529+14'NB', 53' LT - LB15
LED B - 12 - 5 - 5 - 2,1

CONDUIT SPECIAL 2-INCH

18'WB'

18'EB'

STA 529+41'NB', 29' RT - PB6

STA 529+01'NB', 32' RT - LB12
LED B - 12 - 5 - 5 - 2,2

STA 530+19'NB', 88' RT - PB5

STA 530+14'NB', 86' RT - LB11
LED B - 12 - 5 - 5 - 2,5

528'SB'

528'NB'

STA 527+92'NB', 24' RT - LB13
LED B - 12 - 5 - 5 - 2,3

N

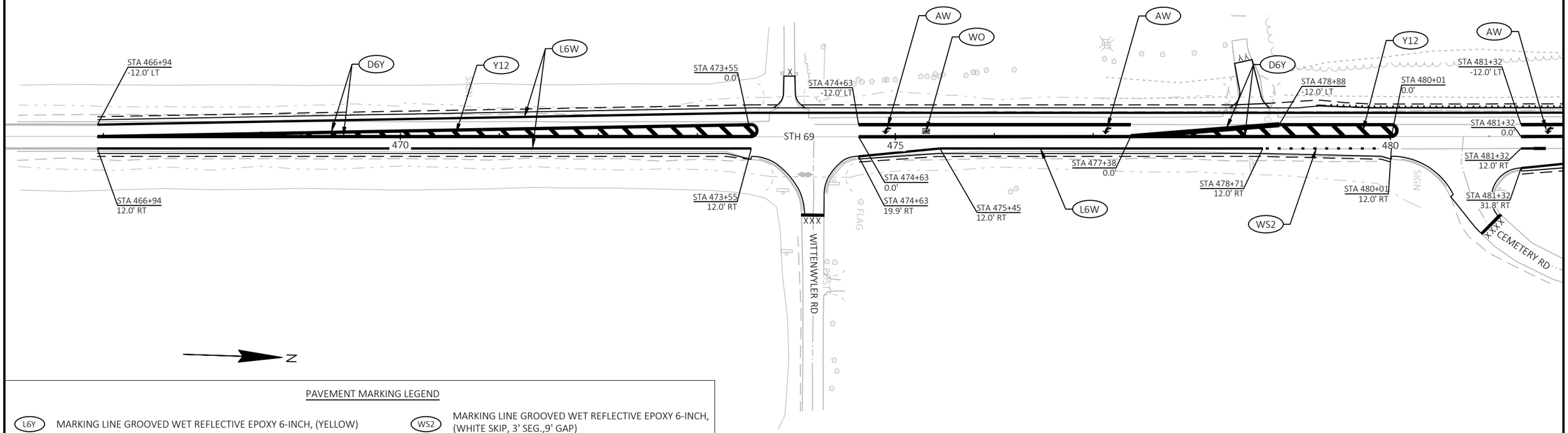
LEGEND

- LIGHT POLE, ARM MOUNTED LUMINAIRE
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- PULL BOXES NON-CONDUCTIVE, 24X42-INCH

STATION ┐ OFFSET ┐ ┌ PULL BOX OR LIGHT POLE NUMBER
STA 10+00'NB', 15' LT - LB01
LED C - 6 - 5 - 4 - 1,3
LUMINAIRE TYPE ┘ ┘ ┘ └ CIRCUIT
MAST ARM LENGTH (FT) ┘ └ POLE TYPE
BASE TYPE

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	LIGHTING PLAN	SHEET 85	E

2



PAVEMENT MARKING LEGEND

L6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (YELLOW)	WS2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE SKIP, 3' SEG.,9' GAP)
L6W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE)	CY	MARKING CURB EPOXY, (YELLOW)
L10W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, (WHITE)	WS18	MARKING DOTTED EXTENSION EPOXY 18-INCH, (WHITE SKIP, 2' SEG., 2' GAP)
D6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)	INY	MARKING ISLAND NOSE EPOXY, (YELLOW)
Y12	MARKING DIAGONAL EPOXY 12-INCH, (YELLOW)	WO	MARKING WORD EPOXY
W12	MARKING DIAGONAL EPOXY 12-INCH, (WHITE)	AW	MARKING ARROW EPOXY
WS	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WITH MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE SKIP, 12.5' BLACK EPOXY, 25' GAP)	SL18	MARKING STOP LINE EPOXY 18-INCH
		X	MARKING REMOVAL LINE 4-INCH

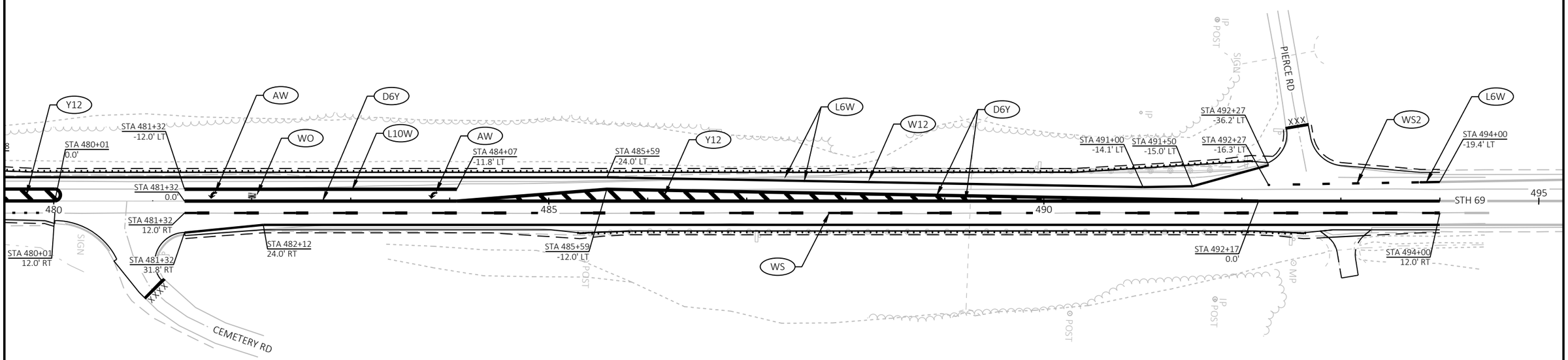
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 86	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\024501-PM.DWG
LAYOUT NAME - 024501-pm

PLOT DATE : 7/8/2025 1:52 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N



PAVEMENT MARKING LEGEND

L6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (YELLOW)	WS2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE SKIP, 3' SEG.,9' GAP)
L6W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE)	CY	MARKING CURB EPOXY, (YELLOW)
L10W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, (WHITE)	WS18	MARKING DOTTED EXTENSION EPOXY 18-INCH, (WHITE SKIP, 2' SEG., 2' GAP)
D6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)	INY	MARKING ISLAND NOSE EPOXY, (YELLOW)
Y12	MARKING DIAGONAL EPOXY 12-INCH, (YELLOW)	WO	MARKING WORD EPOXY
W12	MARKING DIAGONAL EPOXY 12-INCH, (WHITE)	AW	MARKING ARROW EPOXY
WS	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WITH MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE SKIP, 12.5' BLACK EPOXY, 25' GAP)	SL18	MARKING STOP LINE EPOXY 18-INCH
		· X	MARKING REMOVAL LINE 4-INCH

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 87	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\024501-PM.DWG
LAYOUT NAME - 024502-pm

PLOT DATE : 7/8/2025 1:52 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

MATCH LINE 527+80

STH 69

526+00 'SB'

526+00 'NB'

L6W

D6Y

L6Y

Y12

INY

CY

L6W

D6Y

L6Y

N

PAVEMENT MARKING LEGEND

L6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (YELLOW)	WS2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE SKIP, 3' SEG.,9' GAP)
L6W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE)	CY	MARKING CURB EPOXY, (YELLOW)
L10W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, (WHITE)	WS18	MARKING DOTTED EXTENSION EPOXY 18-INCH, (WHITE SKIP, 2' SEG., 2' GAP)
D6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)	INY	MARKING ISLAND NOSE EPOXY, (YELLOW)
Y12	MARKING DIAGONAL EPOXY 12-INCH, (YELLOW)	WO	MARKING WORD EPOXY
W12	MARKING DIAGONAL EPOXY 12-INCH, (WHITE)	AW	MARKING ARROW EPOXY
WS	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WITH MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE SKIP, 12.5' BLACK EPOXY, 25' GAP)	SL18	MARKING STOP LINE EPOXY 18-INCH
			MARKING REMOVAL LINE 4-INCH

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 88	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\024501-PM.DWG
LAYOUT NAME - 024503-pm

PLOT DATE : 7/8/2025 1:52 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

PAVEMENT MARKING LEGEND

L6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (YELLOW)	WS2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE SKIP, 3' SEG.,9' GAP)
L6W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE)	CY	MARKING CURB EPOXY, (YELLOW)
L10W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, (WHITE)	WS18	MARKING DOTTED EXTENSION EPOXY 18-INCH, (WHITE SKIP, 2' SEG., 2' GAP)
D6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)	INY	MARKING ISLAND NOSE EPOXY, (YELLOW)
Y12	MARKING DIAGONAL EPOXY 12-INCH, (YELLOW)	WO	MARKING WORD EPOXY
W12	MARKING DIAGONAL EPOXY 12-INCH, (WHITE)	AW	MARKING ARROW EPOXY
WS	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WITH MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE SKIP, 12.5' BLACK EPOXY, 25' GAP)	SL18	MARKING STOP LINE EPOXY 18-INCH
			MARKING REMOVAL LINE 4-INCH

MATCH LINE 533+70

MATCH LINE 527+80

MATCH LINE 15+25

MATCH LINE 18+50

N

16+00 'WB'

STA 528'SB'+91
-16.6' LT

528+00 'SB'

528+00 'NB'

532+00 'SB'

532+00 'NB'

18+00 'WB'

18+00 'EB'

SIGN

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 89	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\024501-PM.DWG
LAYOUT NAME - 024504-pm

PLOT DATE : 7/8/2025 1:52 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

PAVEMENT MARKING LEGEND

L6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (YELLOW)	WS2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE SKIP, 3' SEG.,9' GAP)
L6W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE)	CY	MARKING CURB EPOXY, (YELLOW)
L10W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, (WHITE)	WS18	MARKING DOTTED EXTENSION EPOXY 18-INCH, (WHITE SKIP, 2' SEG., 2' GAP)
D6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)	INY	MARKING ISLAND NOSE EPOXY, (YELLOW)
Y12	MARKING DIAGONAL EPOXY 12-INCH, (YELLOW)	WO	MARKING WORD EPOXY
W12	MARKING DIAGONAL EPOXY 12-INCH, (WHITE)	AW	MARKING ARROW EPOXY
WS	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WITH MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE SKIP, 12.5' BLACK EPOXY, 25' GAP)	SL18	MARKING STOP LINE EPOXY 18-INCH
		· X	MARKING REMOVAL LINE 4-INCH

NOTE: DO NOT PERPEPTUATE EXISTING CENERLINE MARKINGS FROM 536+49 TO 548+91 AND INSTEAD USE MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)

N

MATCH LINE 539+15

MATCH LINE 533+70

L6W

STA 539+02
12.0' RT

534+00 'SB'

534+00 'NB'

536+00 'SB'

536+00 'NB'

STH 69

Y12

D6Y

L6W

STA 536+49
0.0' RT

D6Y

STA 538+31
12.0' RT

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 90	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\024501-PM.DWG
LAYOUT NAME - 024505-pm

PLOT DATE : 7/8/2025 1:52 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PAVEMENT MARKING LEGEND

L6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (YELLOW)	WS2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE SKIP, 3' SEG.,9' GAP)
L6W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE)	CY	MARKING CURB EPOXY, (YELLOW)
L10W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, (WHITE)	WS18	MARKING DOTTED EXTENSION EPOXY 18-INCH, (WHITE SKIP, 2' SEG., 2' GAP)
D6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)	INY	MARKING ISLAND NOSE EPOXY, (YELLOW)
Y12	MARKING DIAGONAL EPOXY 12-INCH, (YELLOW)	WO	MARKING WORD EPOXY
W12	MARKING DIAGONAL EPOXY 12-INCH, (WHITE)	AW	MARKING ARROW EPOXY
WS	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WITH MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE SKIP, 12.5' BLACK EPOXY, 25' GAP)	SL18	MARKING STOP LINE EPOXY 18-INCH
		X	MARKING REMOVAL LINE 4-INCH

NOTE: DO NOT PERPEPTUATE EXISTING CENERLINE MARKINGS FROM 536+49 TO 548+91 AND INSTEAD USE MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)

N

MATCH LINE 544+50

MATCH LINE 539+15

SIGN

SIGN

SIGN

L6W

540

STH 69

STA 539+82
12.0' RT

D6Y

STA 540+67
11.9' RT

STA 540+52
11.9' RT

WS2

STA 541+69
12.0' RT

L6W

Y

D6Y

CTH F (LAKE AVE)

STA 11'F'+59
0.0'

STA 10'F'+59
-27.2' LT

SL18

STA 543+28
20.0' RT

STA 544+16
12.0' RT

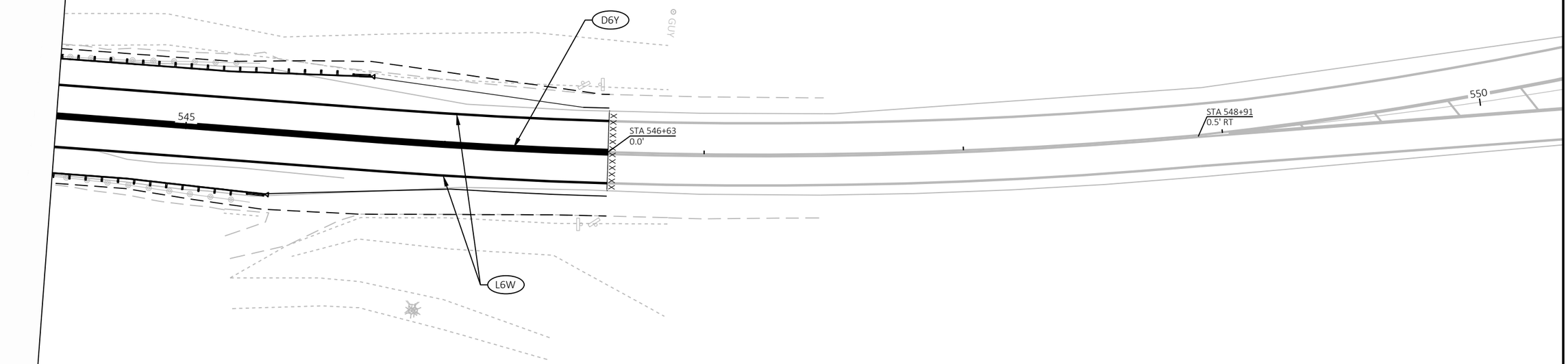
L6W

2

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 91	E

2

N



NOTE: DO NOT PERPEPTUATE EXISTING CENERLINE MARKINGS FROM 536+49 TO 548+91 AND INSTEAD USE MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)

PAVEMENT MARKING LEGEND

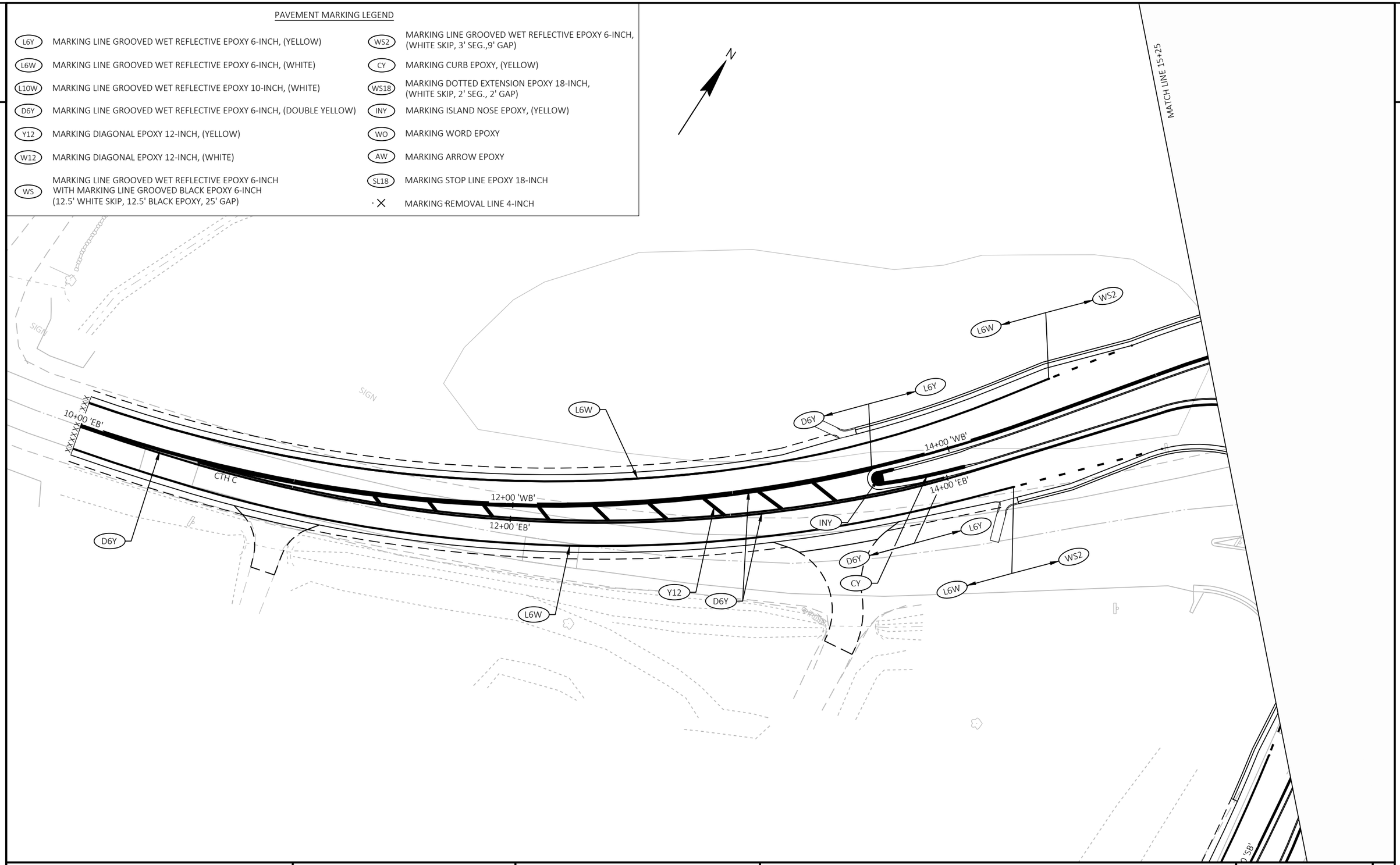
L6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (YELLOW)	WS2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE SKIP, 3' SEG.,9' GAP)
L6W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE)	CY	MARKING CURB EPOXY, (YELLOW)
L10W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, (WHITE)	WS18	MARKING DOTTED EXTENSION EPOXY 18-INCH, (WHITE SKIP, 2' SEG., 2' GAP)
D6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)	INY	MARKING ISLAND NOSE EPOXY, (YELLOW)
Y12	MARKING DIAGONAL EPOXY 12-INCH, (YELLOW)	WO	MARKING WORD EPOXY
W12	MARKING DIAGONAL EPOXY 12-INCH, (WHITE)	AW	MARKING ARROW EPOXY
WS	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WITH MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE SKIP, 12.5' BLACK EPOXY, 25' GAP)	SL18	MARKING STOP LINE EPOXY 18-INCH
		· X	MARKING REMOVAL LINE 4-INCH

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 92	E

2

PAVEMENT MARKING LEGEND

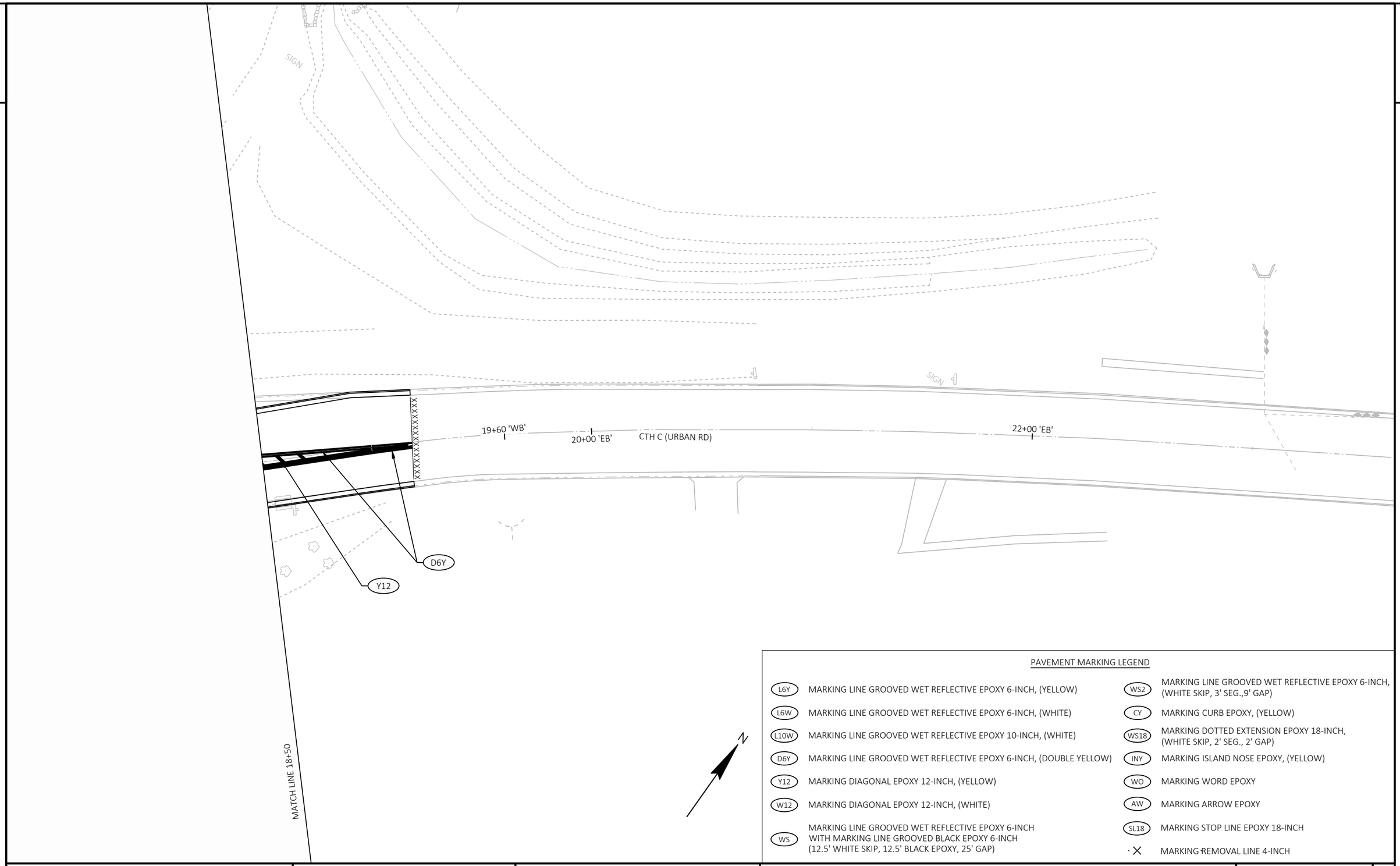
L6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (YELLOW)	WS2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE SKIP, 3' SEG.,9' GAP)
L6W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE)	CY	MARKING CURB EPOXY, (YELLOW)
L10W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, (WHITE)	WS18	MARKING DOTTED EXTENSION EPOXY 18-INCH, (WHITE SKIP, 2' SEG., 2' GAP)
D6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)	INY	MARKING ISLAND NOSE EPOXY, (YELLOW)
Y12	MARKING DIAGONAL EPOXY 12-INCH, (YELLOW)	WO	MARKING WORD EPOXY
W12	MARKING DIAGONAL EPOXY 12-INCH, (WHITE)	AW	MARKING ARROW EPOXY
WS	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WITH MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE SKIP, 12.5' BLACK EPOXY, 25' GAP)	SL18	MARKING STOP LINE EPOXY 18-INCH
			MARKING REMOVAL LINE 4-INCH



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 93 E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\024501-PM.DWG
LAYOUT NAME - 024508-pm
PLOT DATE : 7/8/2025 1:52 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2



PAVEMENT MARKING LEGEND

L6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (YELLOW)	WS2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE SKIP, 3' SEG.,9' GAP)
L6W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (WHITE)	CY	MARKING CURB EPOXY, (YELLOW)
L10W	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, (WHITE)	WS18	MARKING DOTTED EXTENSION EPOXY 18-INCH, (WHITE SKIP, 2' SEG., 2' GAP)
D6Y	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, (DOUBLE YELLOW)	INY	MARKING ISLAND NOSE EPOXY, (YELLOW)
Y12	MARKING DIAGONAL EPOXY 12-INCH, (YELLOW)	WO	MARKING WORD EPOXY
W12	MARKING DIAGONAL EPOXY 12-INCH, (WHITE)	AW	MARKING ARROW EPOXY
WS	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH WITH MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE SKIP, 12.5' BLACK EPOXY, 25' GAP)	SL18	MARKING STOP LINE EPOXY 18-INCH
		· X	MARKING REMOVAL LINE 4-INCH

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PAVEMENT MARKING	SHEET 94	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\024501-PM.DWG
LAYOUT NAME - 024509-pm
PLOT DATE : 7/8/2025 1:52 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL WORK AREA

NOTES:
ALL SIGNS ARE 48" X 48", UNLESS OTHERWISE NOTED.

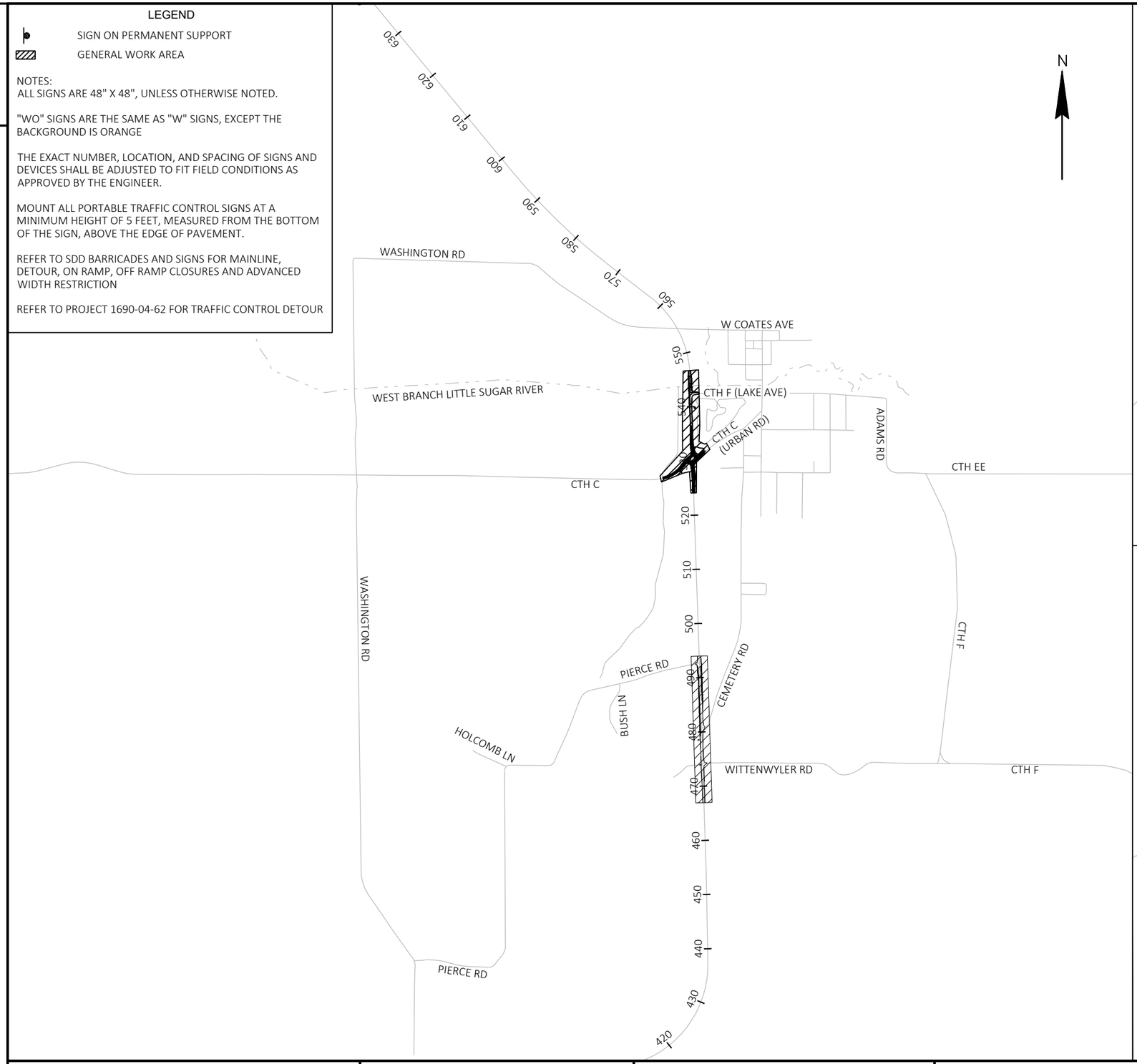
"WO" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE

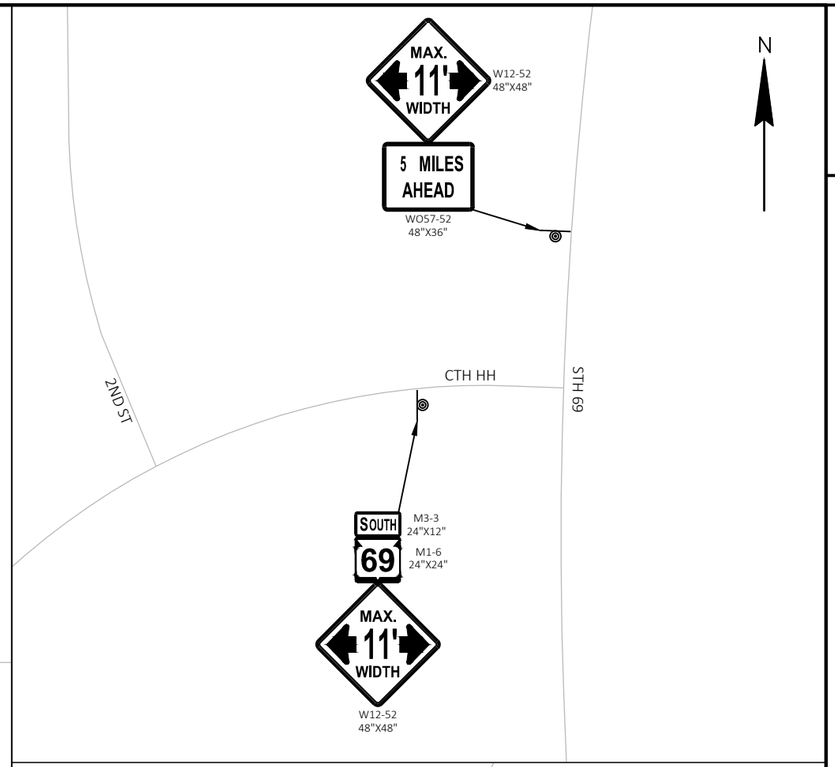
THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

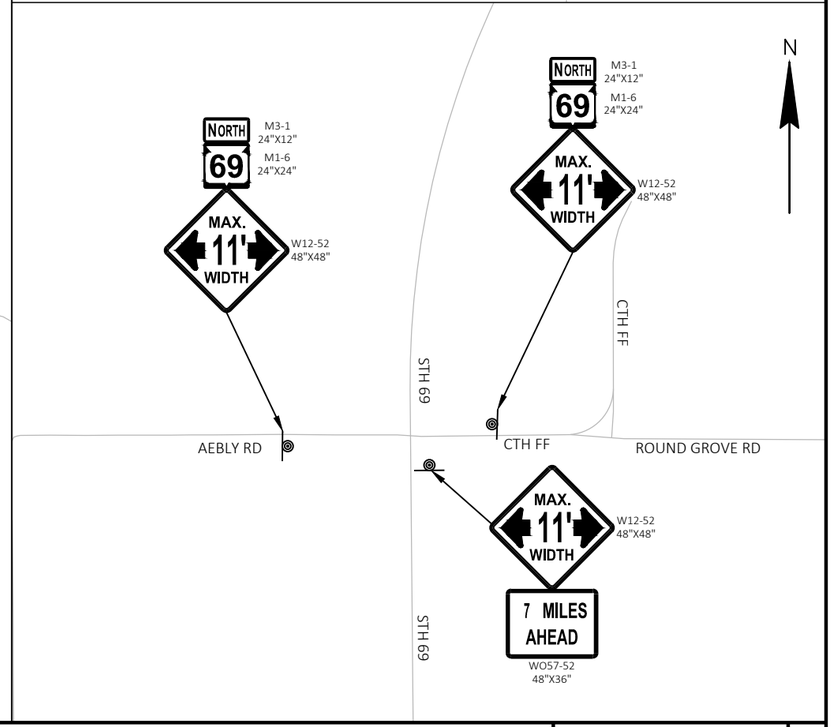
MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

REFER TO SDD BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION

REFER TO PROJECT 1690-04-62 FOR TRAFFIC CONTROL DETOUR

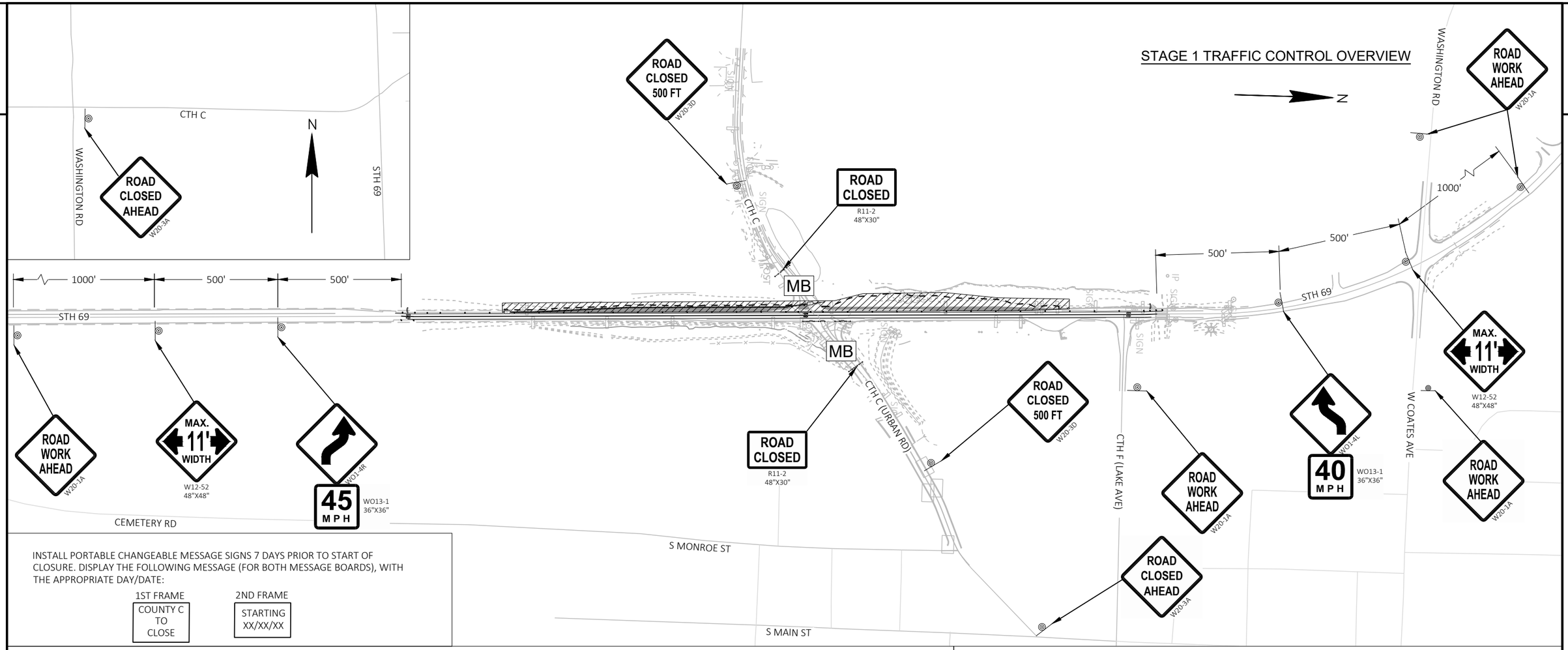






PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - ADVANCE WARNING SIGNS	SHEET 95	E

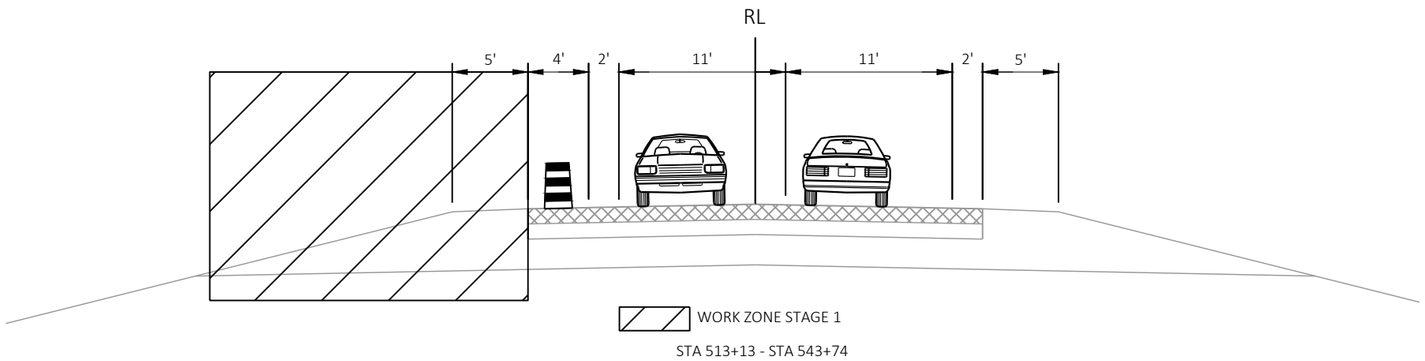
STAGE 1 TRAFFIC CONTROL OVERVIEW



INSTALL PORTABLE CHANGEABLE MESSAGE SIGNS 7 DAYS PRIOR TO START OF CLOSURE. DISPLAY THE FOLLOWING MESSAGE (FOR BOTH MESSAGE BOARDS), WITH THE APPROPRIATE DAY/DATE:

1ST FRAME	2ND FRAME
COUNTY C TO CLOSE	STARTING XX/XX/XX

TRAFFIC CONTROL TYPICAL SECTION - STH 69



STA 513+13 - STA 543+74

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD

NOTES:

TRAFFIC
- STH 69 OPEN ON EXISTING PAVEMENT
- WEST CTH C AND CTH C (URBAN RD) CLOSED TO TRAFFIC

CONSTRUCTION
- CONSTRUCT WIDENING ALONG EXISTING AND PROPOSED STH 69 SB FOR USE IN NEXT STAGE
- PAVE TEMPORARY WIDENING ON STH 69 SB
- REMOVALS OF EXISTING CURB AND GUTTER AND MEDIAN ON SB SIDE
- PLACE CONCRETE BARRIER TEMPORARY PRECAST (PINNED)

REFERENCED STANDARD DETAIL DRAWINGS:

SDD BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION

SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

SDD TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, UNDIVIDED ROAD OPEN TO TRAFFIC

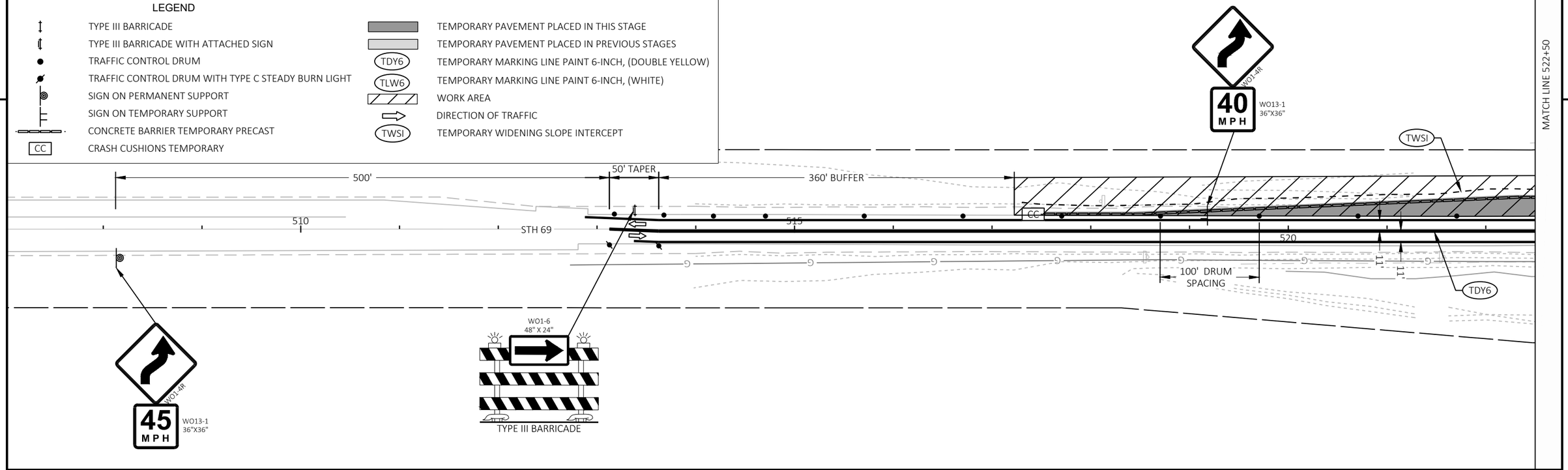
SDD TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

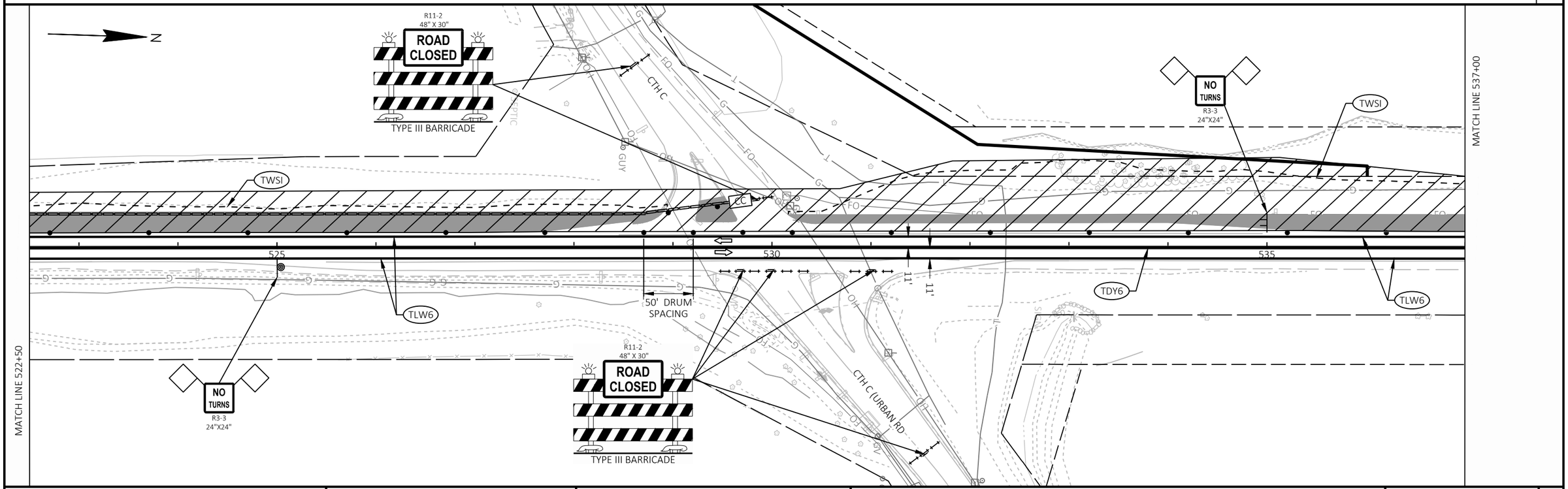
SDD TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 1 OVERVIEW	SHEET 96	E

LEGEND

TYPE III BARRICADE	TEMPORARY PAVEMENT PLACED IN THIS STAGE
TYPE III BARRICADE WITH ATTACHED SIGN	TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
TRAFFIC CONTROL DRUM	TDY6 — TEMPORARY MARKING LINE PAINT 6-INCH, (DOUBLE YELLOW)
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TLW6 — TEMPORARY MARKING LINE PAINT 6-INCH, (WHITE)
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
CONCRETE BARRIER TEMPORARY PRECAST	TWSI — TEMPORARY WIDENING SLOPE INTERCEPT
CC — CRASH CUSHIONS TEMPORARY	



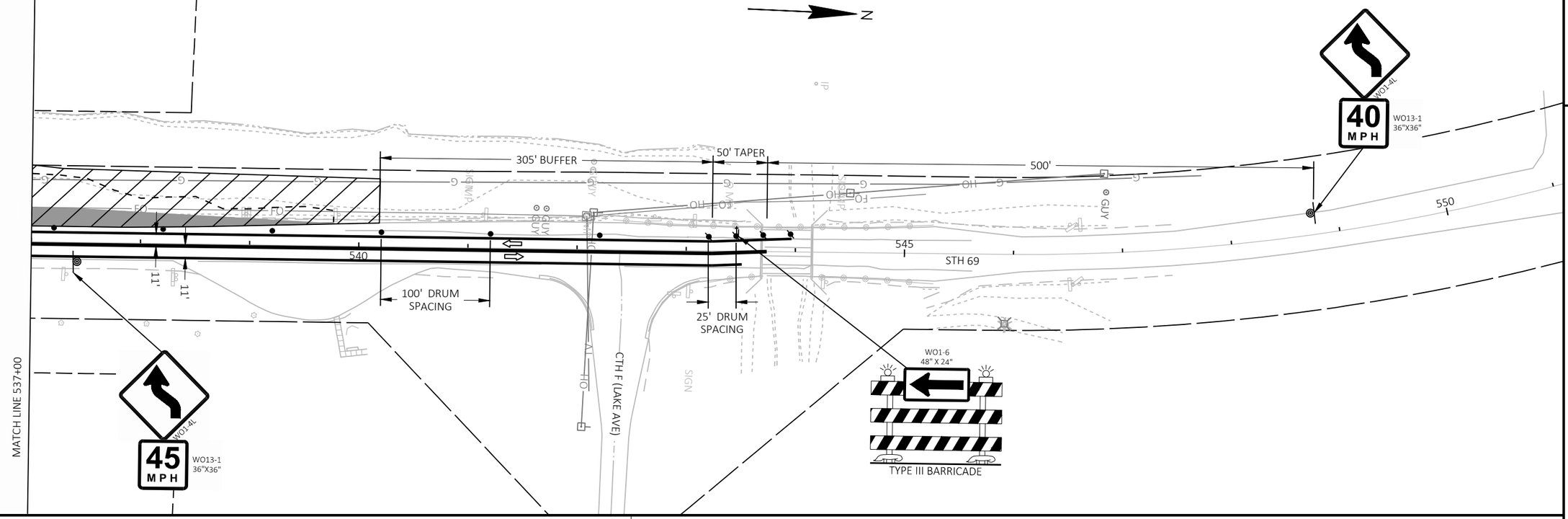


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 1	SHEET 97	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\026002-S1.DWG
LAYOUT NAME - 026002-s1

PLOT DATE : 6/20/2025 11:42 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

	TYPE III BARRICADE		TEMPORARY PAVEMENT PLACED IN THIS STAGE
	TYPE III BARRICADE WITH ATTACHED SIGN		TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
	TRAFFIC CONTROL DRUM	TDY6	TEMPORARY MARKING LINE PAINT 6-INCH, (DOUBLE YELLOW)
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TLW6	TEMPORARY MARKING LINE PAINT 6-INCH, (WHITE)
	SIGN ON PERMANENT SUPPORT		WORK AREA
	SIGN ON TEMPORARY SUPPORT		DIRECTION OF TRAFFIC
	CONCRETE BARRIER TEMPORARY PRECAST	TWSI	TEMPORARY WIDENING SLOPE INTERCEPT
CC	CRASH CUSHIONS TEMPORARY		

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 1	SHEET 98	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD

NOTES:

TRAFFIC
- STH 69 OPEN ON EXISTING AND TEMPORARY PAVEMENT
- CTH C CLOSED TO TRAFFIC
- CTH C (URBAN RD) CLOSED TO TRAFFIC

CONSTRUCTION
- CONSTRUCT EASTERN HALF OF ROUNDABOUT AND A PORTION OF THE WESTERN HALF OF ROUNDABOUT
- CONSTRUCT BERM, DRAINAGE POND, STORM SEWER
- CONSTRUCT LIGHTING

REFERENCED STANDARD DETAIL DRAWINGS:

SDD BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION

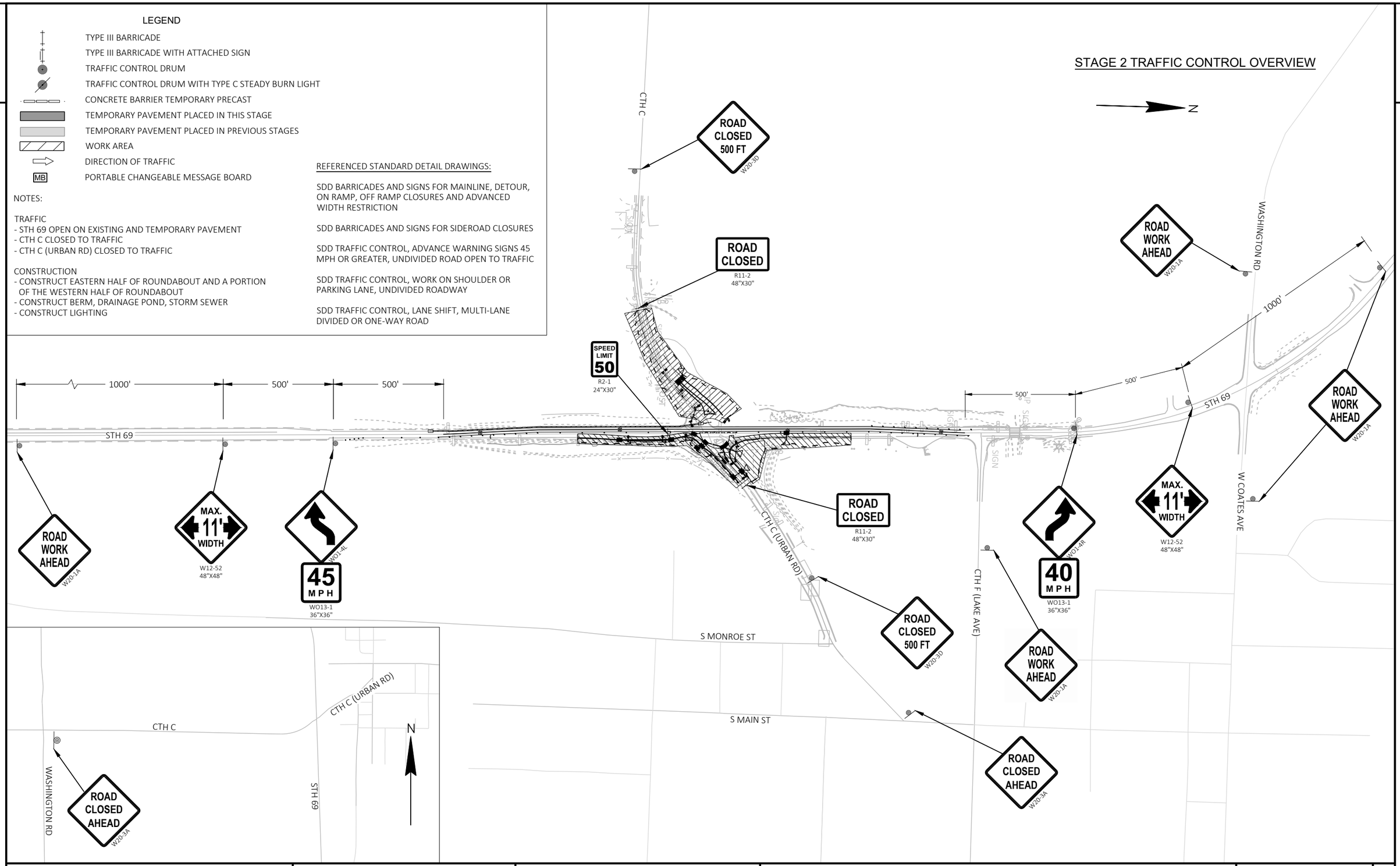
SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

SDD TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, UNDIVIDED ROAD OPEN TO TRAFFIC

SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

SDD TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

STAGE 2 TRAFFIC CONTROL OVERVIEW



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 2 OVERVIEW	SHEET 99	E

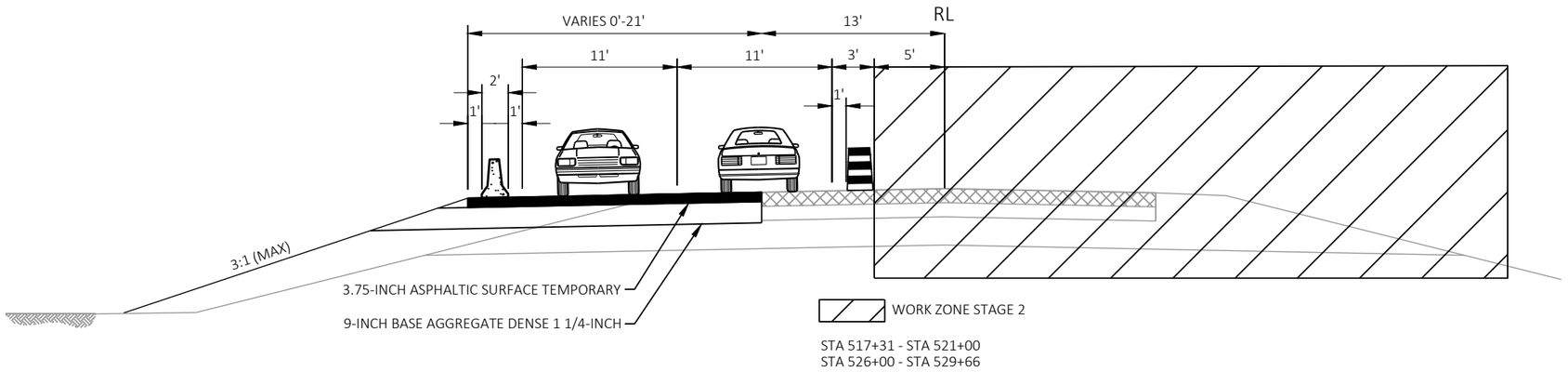
FILE NAME : N:\PDS\C3D\16900403\SHEETS\026001-SO.DWG
LAYOUT NAME - 026004-so

PLOT DATE : 7/21/2025 4:09 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:400 FT

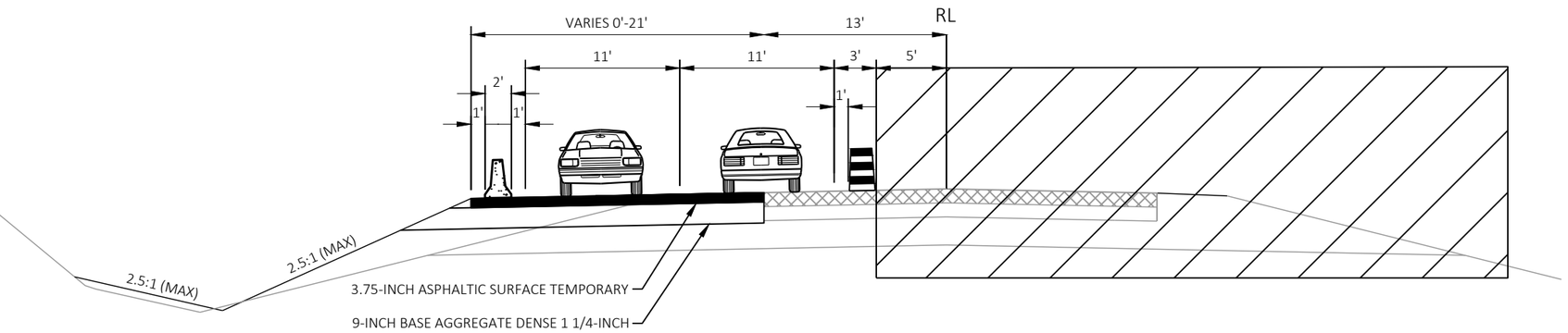
WISDOT/CADDS SHEET 42

2

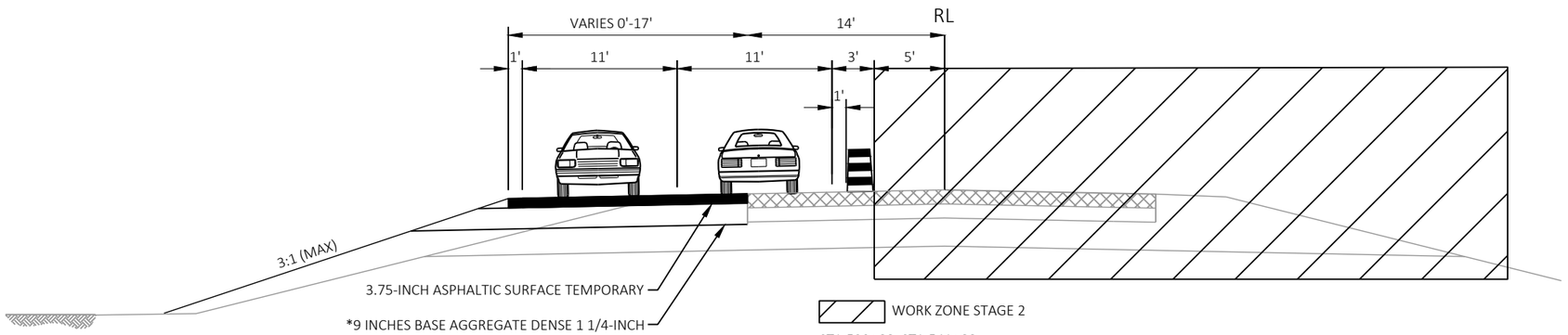
TRAFFIC CONTROL TYPICAL SECTION - STH 69



STA 517+31 - STA 521+00
STA 526+00 - STA 529+66



STA 521+00 - STA 526+00



STA 529+66- STA 541+66

*VARIES FROM 9-INCHES TO 18.25 INCHES FROM STA 532+42- STA 536+50 TO MATCH FINAL DATUM. SEE CROSS SECTIONS.

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 2 OVERVIEW	SHEET 100	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\026001-SO.DWG
LAYOUT NAME - 026005-so
PLOT DATE : 7/21/2025 4:09 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

SEE OVERVIEW FOR ADVANCE WARNING SIGNS

N

WO1-4L

45 MPH

WO13-1
36"X36"

510 515 STH 69 520 525

CC

500'

100' DRUM SPACING

11'

11'

180' BUFFER

WO1-6
48" X 24"

TYPE III BARRICADE

NO TURNS
R3-3
24"X24"

MATCH LINE 525+35

MATCH LINE 525+35

LEGEND

TYPE III BARRICADE	TEMPORARY PAVEMENT PLACED IN THIS STAGE
TYPE III BARRICADE WITH ATTACHED SIGN	TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
TRAFFIC CONTROL DRUM	TDY6 — TEMPORARY MARKING LINE PAINT 6-INCH, (DOUBLE YELLOW)
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TLW6 — TEMPORARY MARKING LINE PAINT 6-INCH, (WHITE)
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
CONCRETE BARRIER TEMPORARY PRECAST	TWSI — TEMPORARY WIDENING SLOPE INTERCEPT
CC — CRASH CUSHIONS TEMPORARY	

N

WO1-4L

40 MPH

WO13-1
36"X36"

SPEED LIMIT 50
R2-1
24"X30"

MOVED TO TEMPORARY SUPPORT AS NOTED IN EXISTING SIGNING REMOVALS. REMOVE AFTER STAGE 2.

M6-2

8:1 TAPER

CC

530 535 STH 69

NO TURNS
R3-3
24"X24"

TLW6

TDY6

11'

11'

87' BUFFER

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

CTH C (URBAN RD)

WO1-4R

45 MPH

WO13-1
36"X36"

MATCH LINE 525+35

MATCH LINE 539+25

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 2	SHEET 101	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\026003-S2.DWG
LAYOUT NAME - 026006-s2

PLOT DATE : 7/20/2025 12:41 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 539+25

TDY6

TLW6

50' DRUM SPACING

500'

WO1-4R

40 MPH

WO13-1
36"X36"

540

545

550

555

STH 69

CTH F (LAKE AVE)

WO1-6
48" X 24"

TYPE III BARRICADE

N

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- CC — CRASH CUSHIONS TEMPORARY
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TDY6 — TEMPORARY MARKING LINE PAINT 6-INCH, (DOUBLE YELLOW)
- TLW6 — TEMPORARY MARKING LINE PAINT 6-INCH, (WHITE)
- WORK AREA
- DIRECTION OF TRAFFIC
- TWSI — TEMPORARY WIDENING SLOPE INTERCEPT

N

CTH C

CTH C

EEC

530

8:1 TAPER

MOVED TO TEMPORARY SUPPORT AS NOTED IN EXISTING SIGNING REMOVALS. REMOVE AFTER STAGE 2.

SPEED LIMIT 50
R2-1
24"X30"

M6-2

WO1-4R

45 MPH

WO13-1
36"X36"

CTH C (URBAN RD)

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 2	SHEET 102	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\026003-S2.DWG
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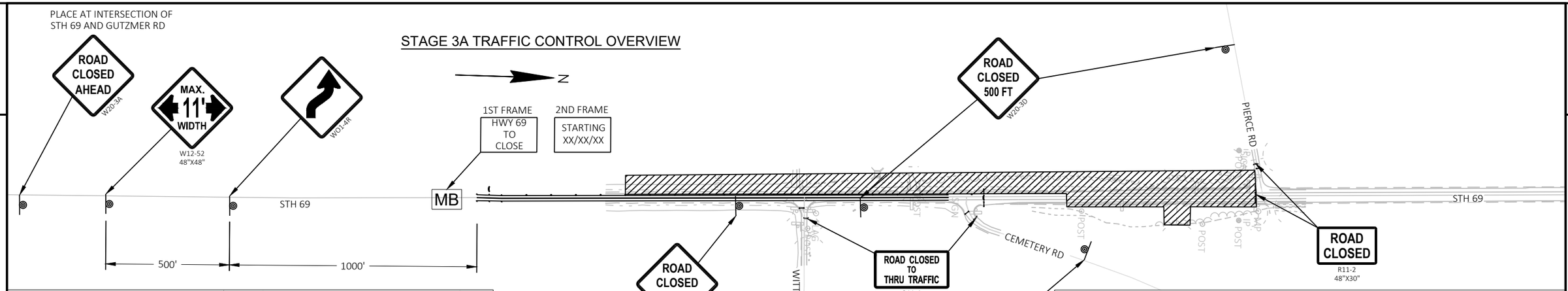
PLOT DATE : 7/20/2025 12:41 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

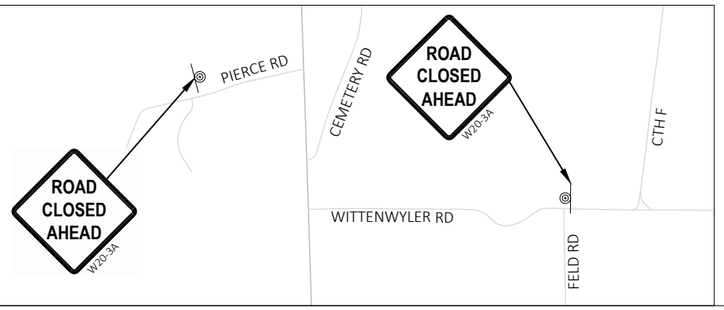
WISDOT/CADDS SHEET 44

2

PLACE AT INTERSECTION OF
STH 69 AND GUTZMER RD

STAGE 3A TRAFFIC CONTROL OVERVIEW





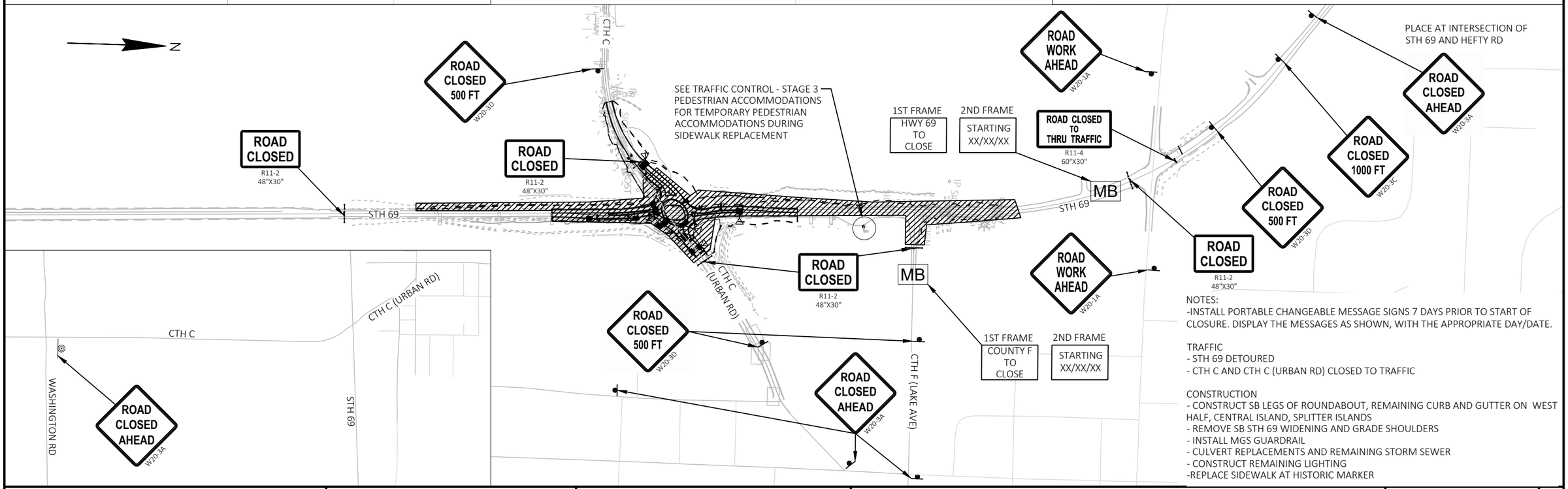
REFERENCED STANDARD DETAIL DRAWINGS:
SDD BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION

SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

SDD TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD



NOTES:
-INSTALL PORTABLE CHANGEABLE MESSAGE SIGNS 7 DAYS PRIOR TO START OF CLOSURE. DISPLAY THE MESSAGES AS SHOWN, WITH THE APPROPRIATE DAY/DATE.

TRAFFIC
- STH 69 DETOURED
- CTH C AND CTH C (URBAN RD) CLOSED TO TRAFFIC

CONSTRUCTION
- CONSTRUCT SB LEGS OF ROUNDABOUT, REMAINING CURB AND GUTTER ON WEST HALF, CENTRAL ISLAND, SPLITTER ISLANDS
- REMOVE SB STH 69 WIDENING AND GRADE SHOULDERS
- INSTALL MGS GUARDRAIL
- CULVERT REPLACEMENTS AND REMAINING STORM SEWER
- CONSTRUCT REMAINING LIGHTING
-REPLACE SIDEWALK AT HISTORIC MARKER

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 3A OVERVIEW	SHEET 103	E

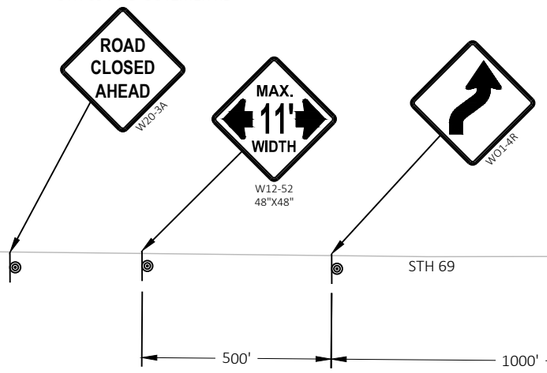
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LAYOUT NAME - 026008-so
PLOT DATE : 7/21/2025 4:09 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 42

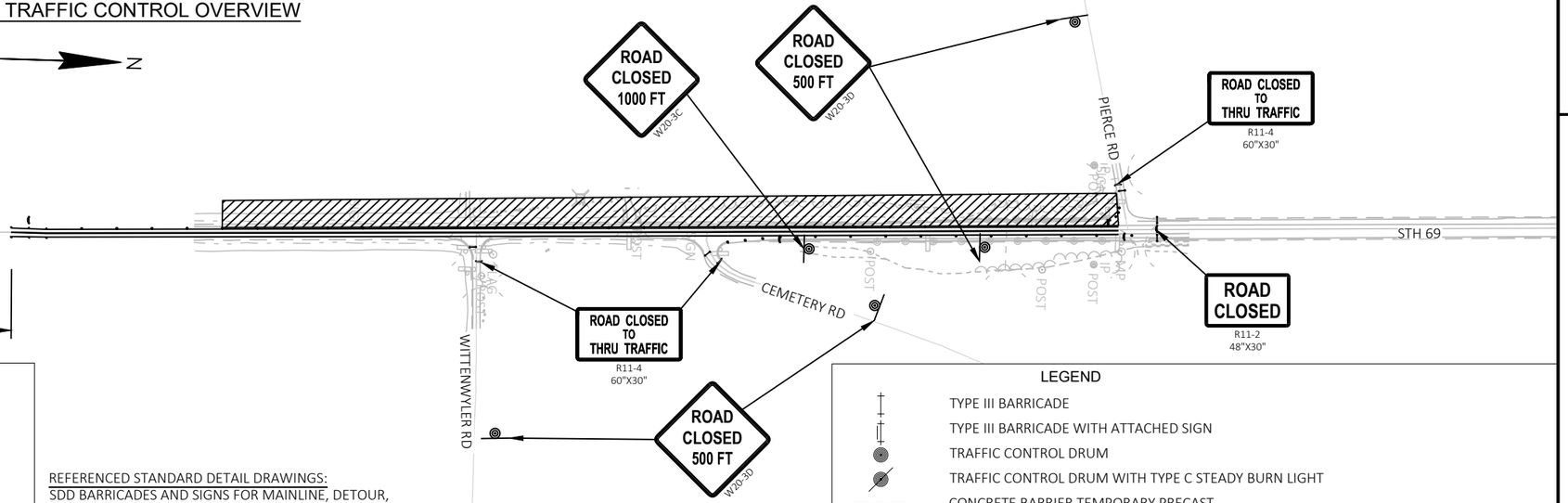
2

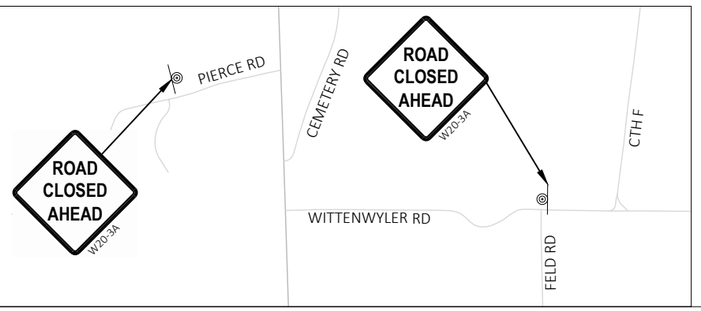
PLACE AT INTERSECTION OF
STH 69 AND GUTZMER RD

STAGE 3B TRAFFIC CONTROL OVERVIEW

N







REFERENCED STANDARD DETAIL DRAWINGS:
SDD BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION

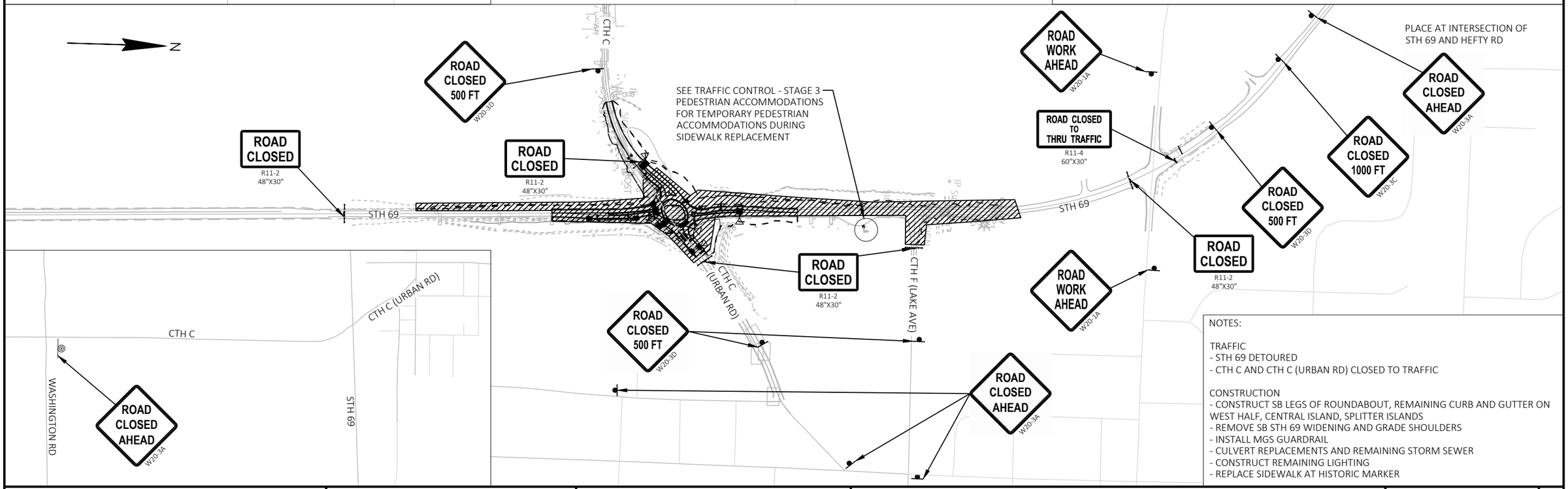
SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

SDD TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

N



NOTES:

TRAFFIC
- STH 69 DETOURED
- CTH C AND CTH C (URBAN RD) CLOSED TO TRAFFIC

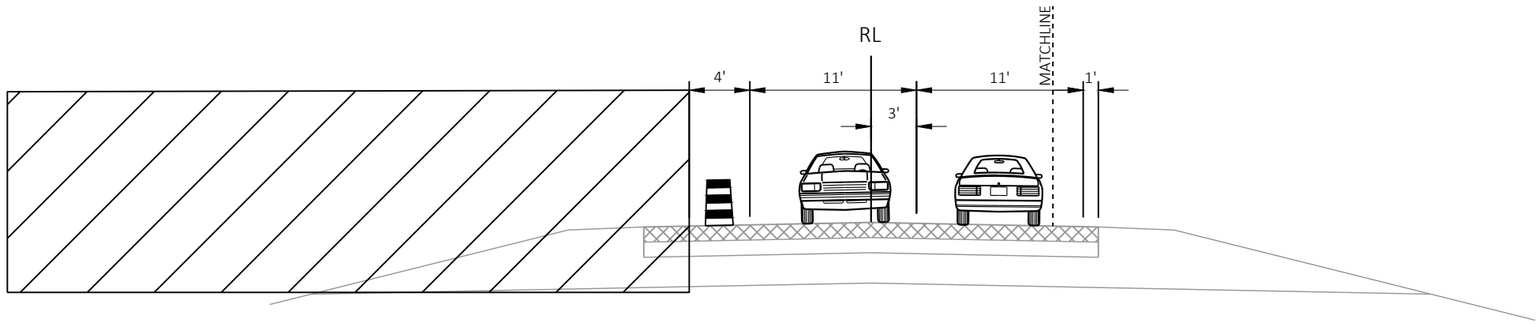
CONSTRUCTION
- CONSTRUCT SB LEGS OF ROUNDABOUT, REMAINING CURB AND GUTTER ON WEST HALF, CENTRAL ISLAND, SPLITTER ISLANDS
- REMOVE SB STH 69 WIDENING AND GRADE SHOULDERS
- INSTALL MGS GUARDRAIL
- CULVERT REPLACEMENTS AND REMAINING STORM SEWER
- CONSTRUCT REMAINING LIGHTING
- REPLACE SIDEWALK AT HISTORIC MARKER

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 3B OVERVIEW	SHEET 104	E

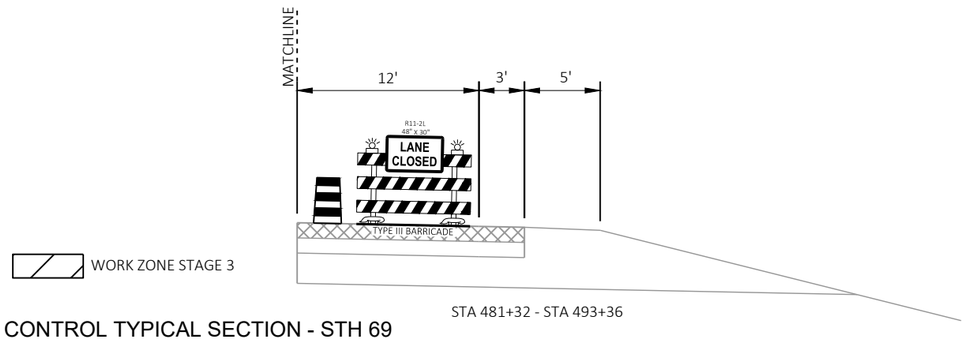
FILE NAME : N:\PDS\C3D\16900403\SHEETS\026001-SO.DWG
LAYOUT NAME - 026009-so
PLOT DATE : 7/21/2025 4:09 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 42

2

TRAFFIC CONTROL TYPICAL SECTION - STH 69



STAGE 3A: STA 460+94 - STA 481+34
STAGE 3B: STA 460+94 - STA 493+36

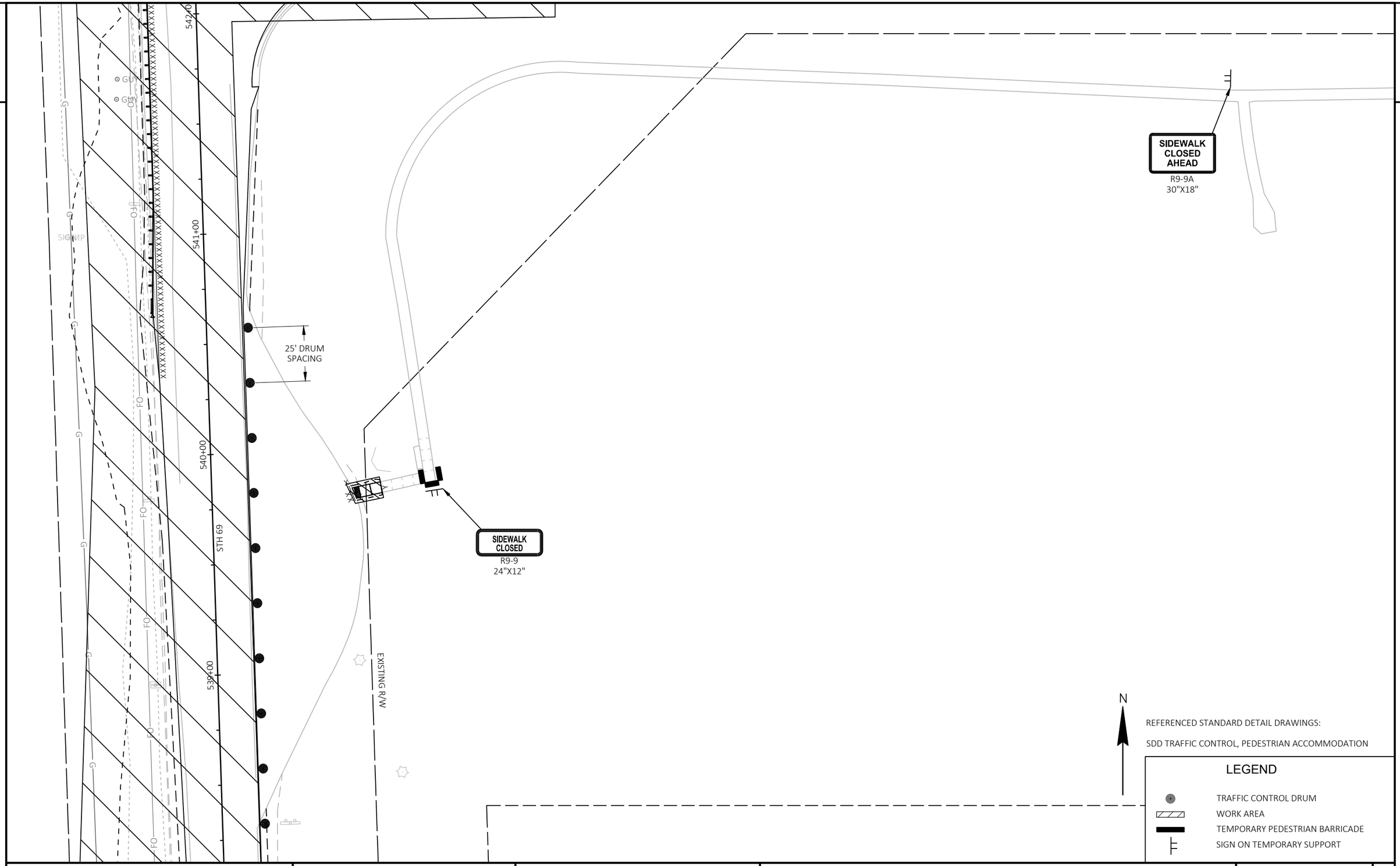


WORK ZONE STAGE 3

STA 481+32 - STA 493+36

TRAFFIC CONTROL TYPICAL SECTION - STH 69 (AUXILIARY LANES) FOR STAGE 3B

2

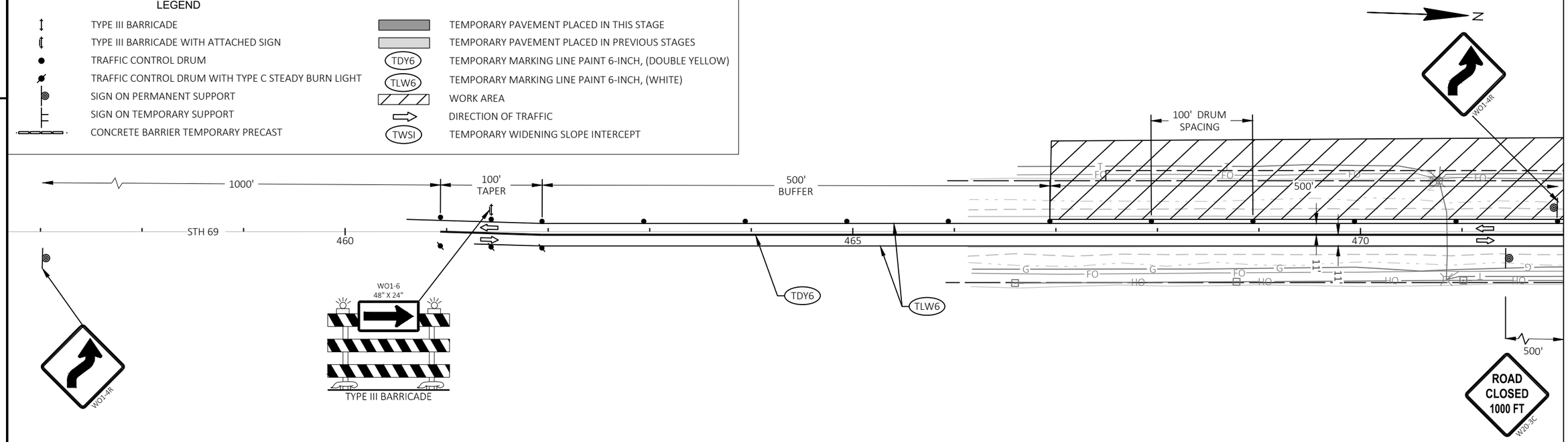


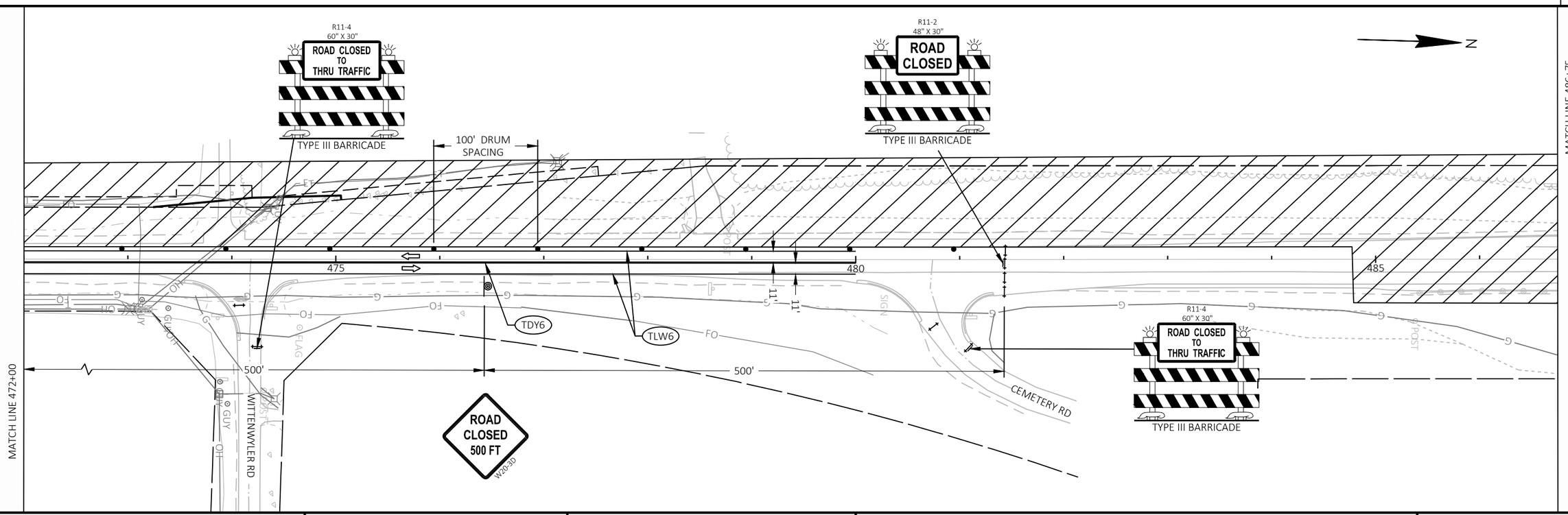
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 3 PEDESTRIAN ACCOMMODATIONS	SHEET 106	E

2

LEGEND

TYPE III BARRICADE	TEMPORARY PAVEMENT PLACED IN THIS STAGE
TYPE III BARRICADE WITH ATTACHED SIGN	TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
TRAFFIC CONTROL DRUM	TDY6 — TEMPORARY MARKING LINE PAINT 6-INCH, (DOUBLE YELLOW)
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TLW6 — TEMPORARY MARKING LINE PAINT 6-INCH, (WHITE)
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
CONCRETE BARRIER TEMPORARY PRECAST	TWSI — TEMPORARY WIDENING SLOPE INTERCEPT





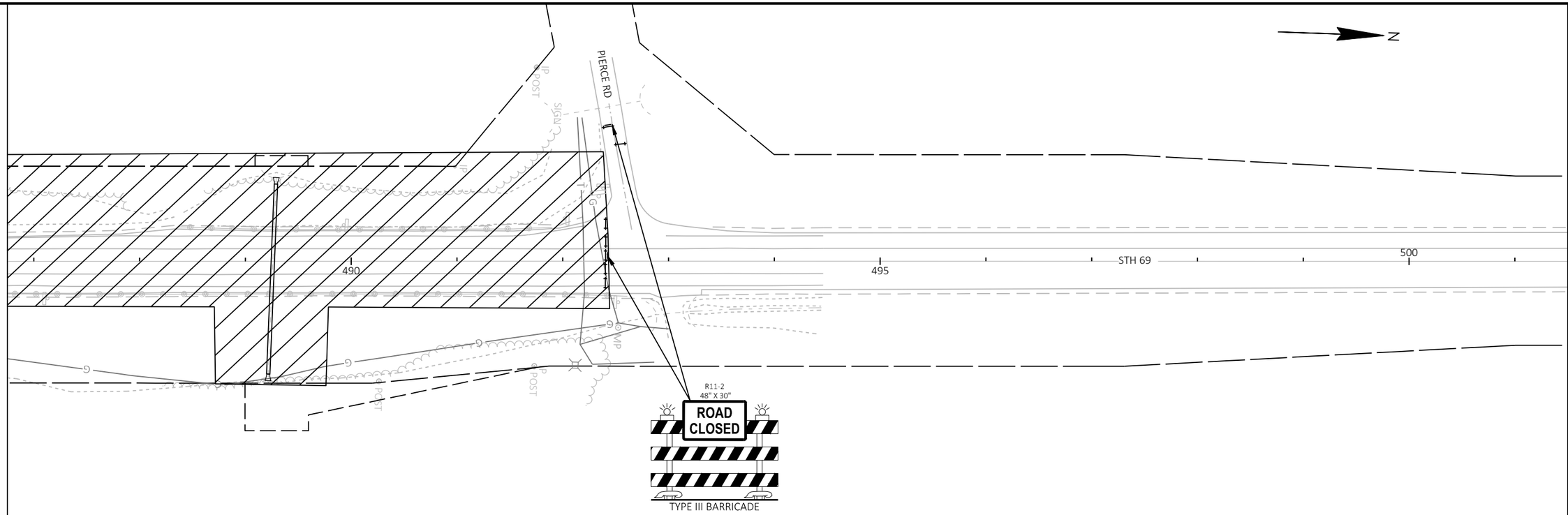
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 3A	SHEET 107 E

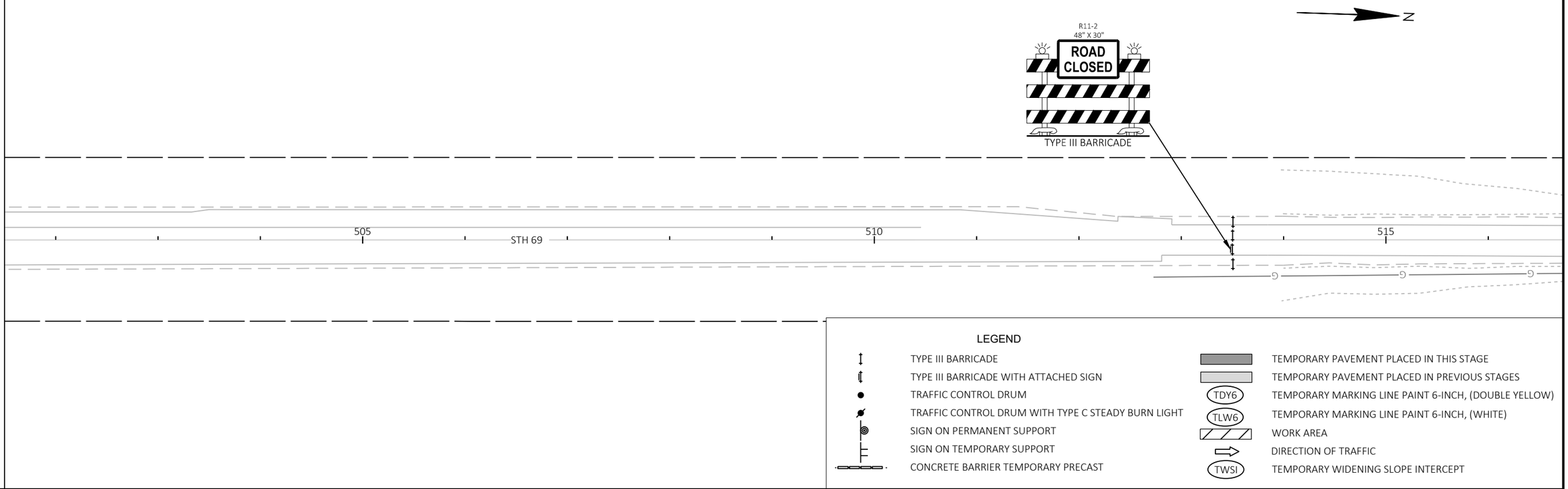
FILE NAME : N:\PDS\C3D\16900403\SHEETS\026004-S3A.DWG
LAYOUT NAME - 026011-s3a

PLOT DATE : 6/20/2025 11:43 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2





LEGEND

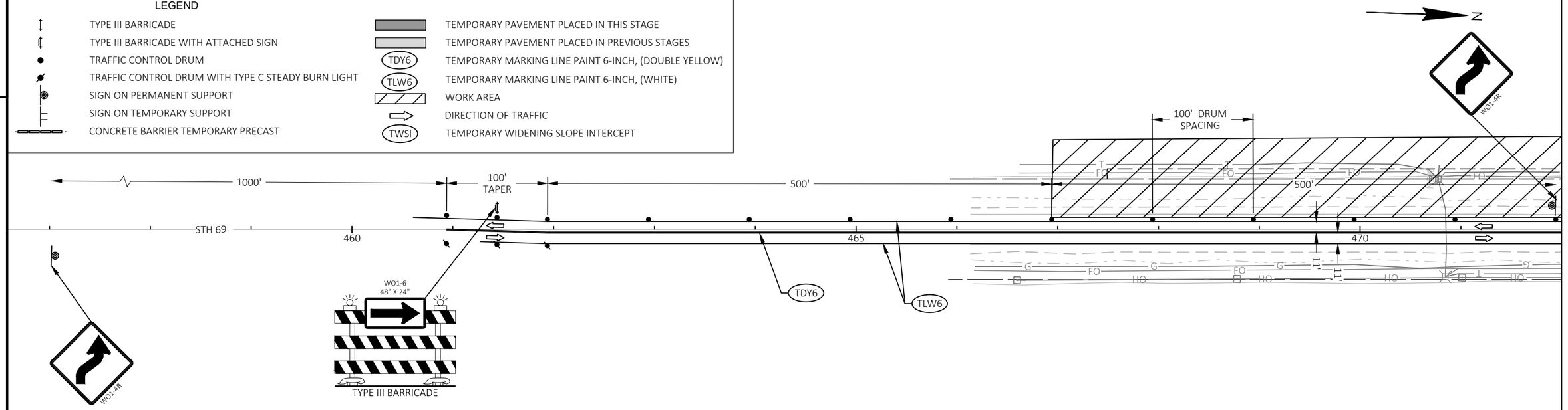
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TDY6 — TEMPORARY MARKING LINE PAINT 6-INCH, (DOUBLE YELLOW)
- TLW6 — TEMPORARY MARKING LINE PAINT 6-INCH, (WHITE)
- WORK AREA
- DIRECTION OF TRAFFIC
- TWSI — TEMPORARY WIDENING SLOPE INTERCEPT

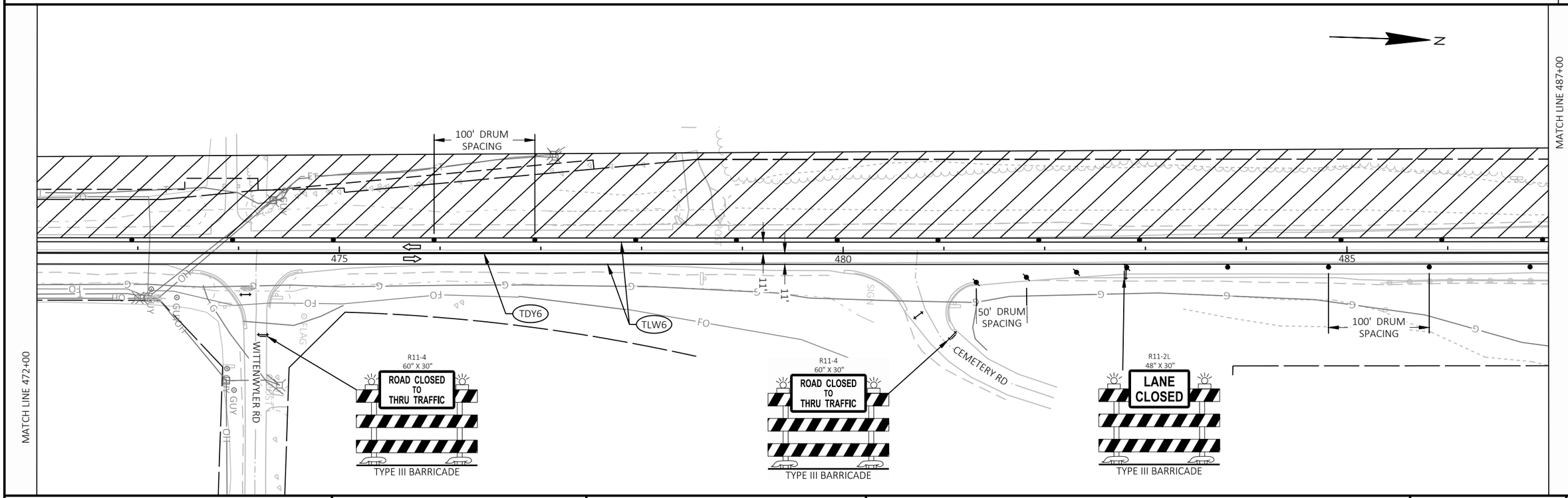
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 3A	SHEET 108	E

2

LEGEND

TYPE III BARRICADE	TEMPORARY PAVEMENT PLACED IN THIS STAGE
TYPE III BARRICADE WITH ATTACHED SIGN	TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
TRAFFIC CONTROL DRUM	TDY6 — TEMPORARY MARKING LINE PAINT 6-INCH, (DOUBLE YELLOW)
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TLW6 — TEMPORARY MARKING LINE PAINT 6-INCH, (WHITE)
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
CONCRETE BARRIER TEMPORARY PRECAST	TWSI — TEMPORARY WIDENING SLOPE INTERCEPT



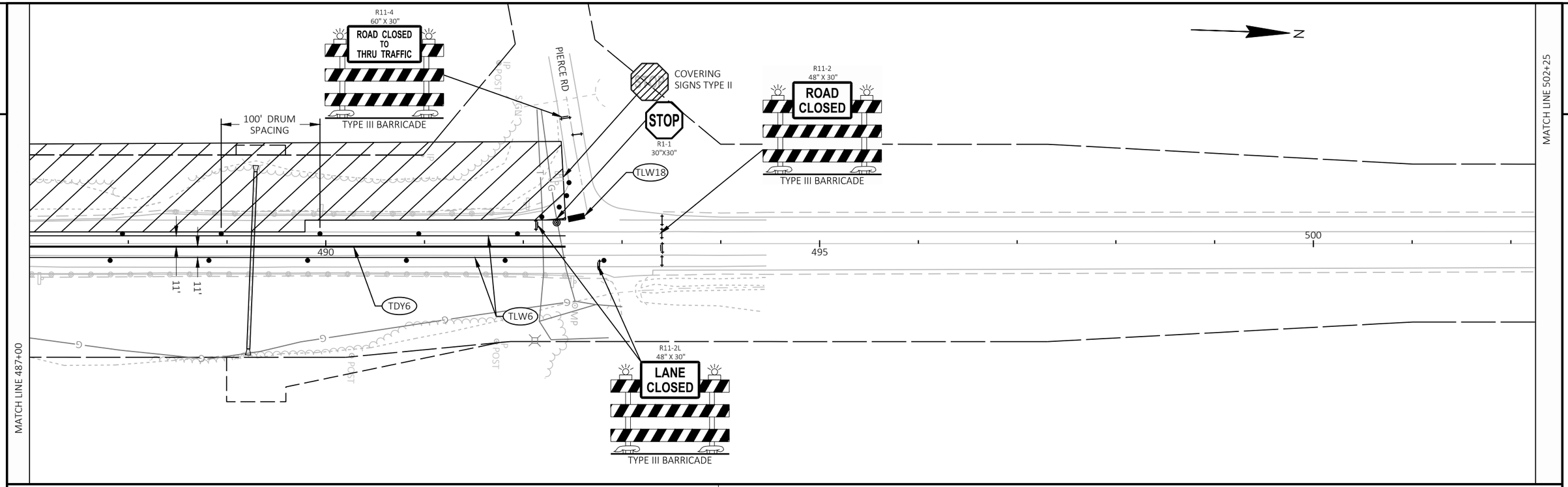


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 3B	SHEET 109	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\026004-S3B.DWG
LAYOUT NAME - 026013-s3b

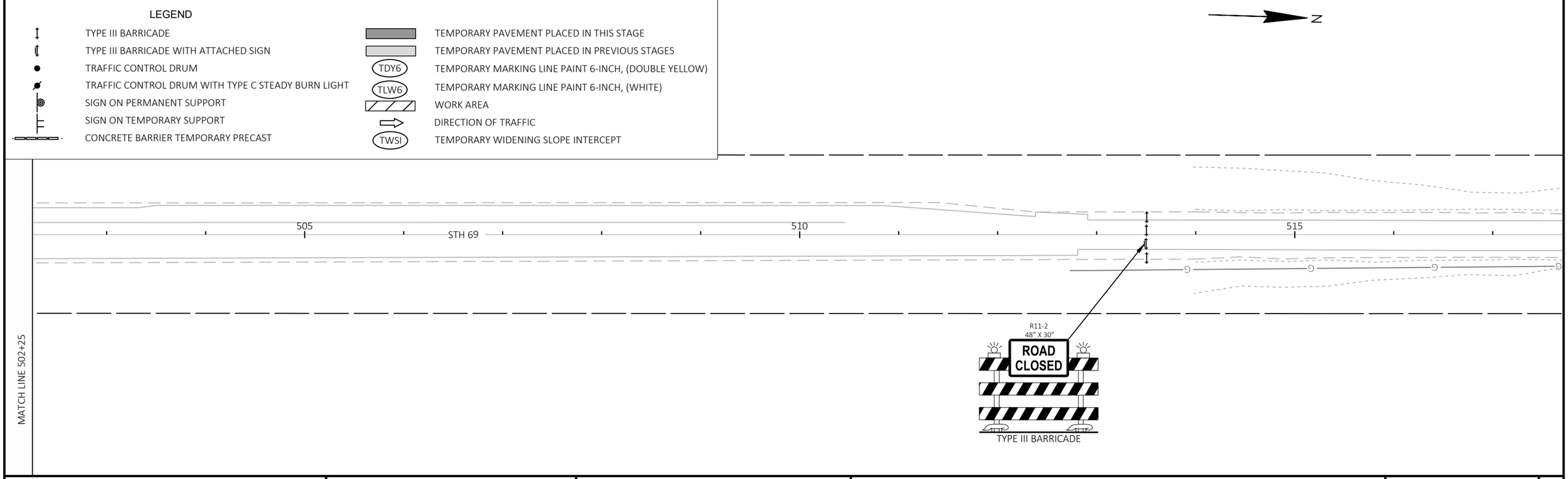
PLOT DATE : 9/16/2025 4:51 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



LEGEND

TYPE III BARRICADE	TEMPORARY PAVEMENT PLACED IN THIS STAGE
TYPE III BARRICADE WITH ATTACHED SIGN	TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
TRAFFIC CONTROL DRUM	TDY6 — TEMPORARY MARKING LINE PAINT 6-INCH, (DOUBLE YELLOW)
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TLW6 — TEMPORARY MARKING LINE PAINT 6-INCH, (WHITE)
SIGN ON PERMANENT SUPPORT	WORK AREA
SIGN ON TEMPORARY SUPPORT	DIRECTION OF TRAFFIC
CONCRETE BARRIER TEMPORARY PRECAST	TWSI — TEMPORARY WIDENING SLOPE INTERCEPT



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	TRAFFIC CONTROL - STAGE 3B	SHEET 110	E

2

N

BEGIN PROJECT
STA 466+93.96

PI STA 474+16.83
Y=183009.3450
X=622588.4741

PI STA 480+80.91
Y=183673.0788
X=622567.0353

PI STA 492+66.56
Y=184858.0545
X=622527.0527

PI: 474+16.83

PI: 480+80.91

PI: 492+66.56

PIERCE RD

STH 69

466 — 468 — N1°50'05"W — 470 — 472 — 474 — 476 — N1°51'00"W — 478 — 480 — 482 — 484 — 486 — N1°55'57"W — 488 — 490 — 492 — N1°55'43"W — 494

STA 466+93.96
Y=182287.1599
X=622611.6078

WITTENWYLER RD

CEMETERY RD

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	ALIGNMENT DETAILS	SHEET 111	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\027201-AD.DWG
LAYOUT NAME - 027201-ad
PLOT DATE : 6/9/2025 1:54 PM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

N

CTH C

CTH C (URBAN RD)

CTH F (LAKE AVE)

STH 69

N1°55'43"W

N1°52'19"W

N2°00'00"W

522 524 538 540 542 544 546 548 550 552

PI STA 542+42.99
Y=189831.7071
X=622360.8195

PI: 542+42.99

PC: 545+76.79

PI STA = 554+80.08
Y = 191068.052
X = 622317.645
DELTA = 50°16'34" LT
D = 2°58'35"
T = 903.29'
L = 1689.15'
R = 1925.00'
PC STA = 545+76.79
PT STA = 562+65.94
DB = N02°00'00"W
DA = N52°16'34"W
S.E.= MATCH EXISTING (5%)

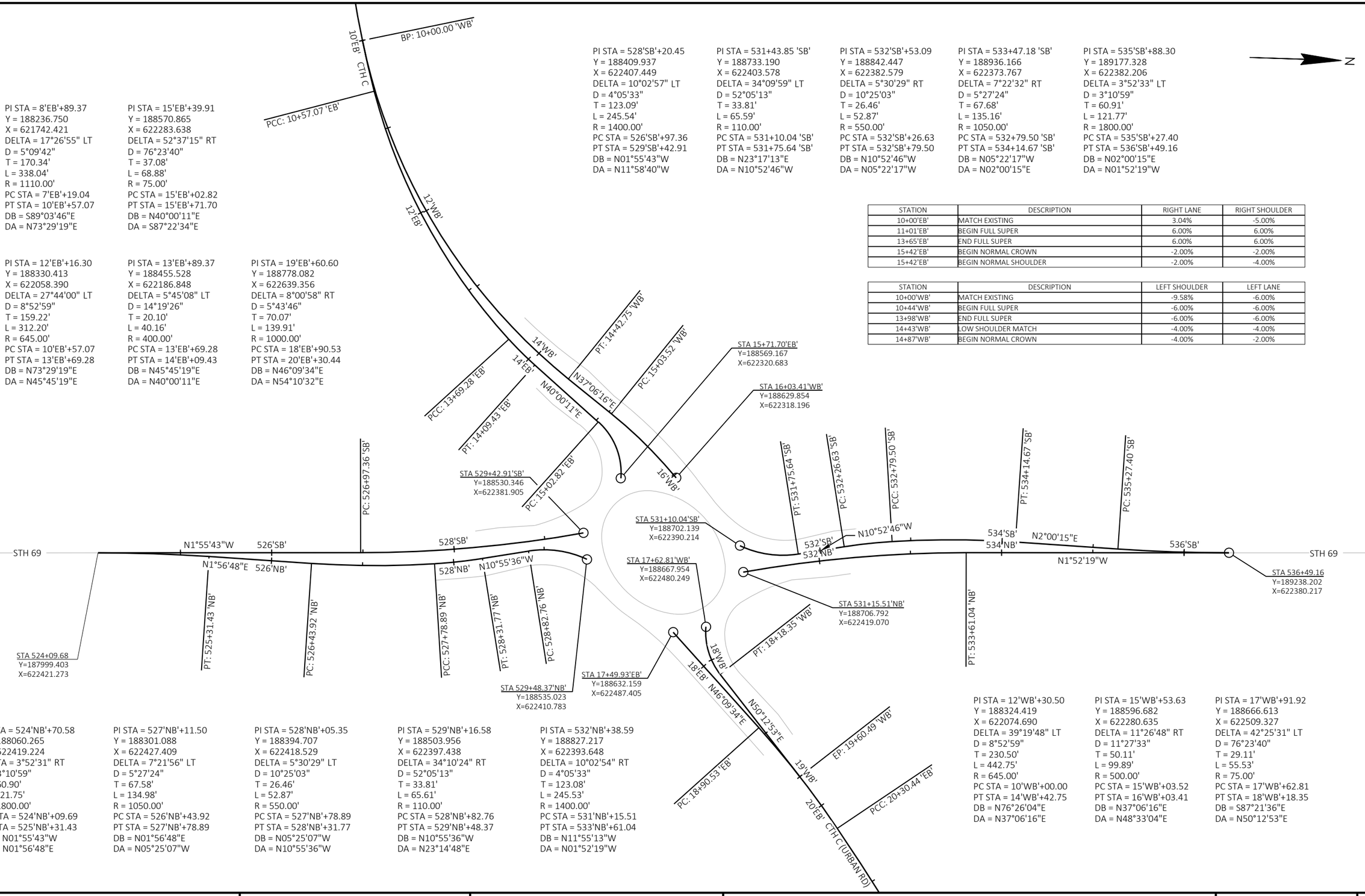
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	ALIGNMENT DETAILS	SHEET 112	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\027201-AD.DWG
LAYOUT NAME - 027202-ad

PLOT DATE : 6/9/2025 1:54 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2



PI STA = 8'EB'+89.37
Y = 188236.750
X = 621742.421
DELTA = 17°26'55" LT
D = 5°09'42"
T = 170.34'
L = 338.04'
R = 1110.00'
PC STA = 7'EB'+19.04
PT STA = 10'EB'+57.07
DB = S89°03'46"E
DA = N73°29'19"E

PI STA = 15'EB'+39.91
Y = 188570.865
X = 622283.638
DELTA = 52°37'15" RT
D = 76°23'40"
T = 37.08'
L = 68.88'
R = 75.00'
PC STA = 15'EB'+02.82
PT STA = 15'EB'+71.70
DB = N40°00'11"E
DA = S87°22'34"E

PI STA = 12'EB'+16.30
Y = 188330.413
X = 622058.390
DELTA = 27°44'00" LT
D = 8°52'59"
T = 159.22'
L = 312.20'
R = 645.00'
PC STA = 10'EB'+57.07
PT STA = 13'EB'+69.28
DB = N73°29'19"E
DA = N45°45'19"E

PI STA = 13'EB'+89.37
Y = 188455.528
X = 622186.848
DELTA = 5°45'08" LT
D = 14°19'26"
T = 20.10'
L = 40.16'
R = 400.00'
PC STA = 13'EB'+69.28
PT STA = 14'EB'+09.43
DB = N45°45'19"E
DA = N40°00'11"E

PI STA = 19'EB'+60.60
Y = 188778.082
X = 622639.356
DELTA = 8°00'58" RT
D = 5°43'46"
T = 70.07'
L = 139.91'
R = 1000.00'
PC STA = 18'EB'+90.53
PT STA = 20'EB'+30.44
DB = N46°09'34"E
DA = N54°10'32"E

PI STA = 528'SB'+20.45
Y = 188409.937
X = 622407.449
DELTA = 10°02'57" LT
D = 4°05'33"
T = 123.09'
L = 245.54'
R = 1400.00'
PC STA = 526'SB'+97.36
PT STA = 529'SB'+42.91
DB = N01°55'43"W
DA = N11°58'40"W

PI STA = 531+43.85 'SB'
Y = 188733.190
X = 622403.578
DELTA = 34°09'59" LT
D = 52°05'13"
T = 33.81'
L = 65.59'
R = 110.00'
PC STA = 531+10.04 'SB'
PT STA = 531+75.64 'SB'
DB = N23°17'13"E
DA = N10°52'46"W

PI STA = 532'SB'+53.09
Y = 188842.447
X = 622382.579
DELTA = 5°30'29" RT
D = 10°25'03"
T = 26.46'
L = 52.87'
R = 550.00'
PC STA = 532'SB'+26.63
PT STA = 532'SB'+79.50
DB = N10°52'46"W
DA = N05°22'17"W

PI STA = 533+47.18 'SB'
Y = 188936.166
X = 622373.767
DELTA = 7°22'32" RT
D = 5°27'24"
T = 67.68'
L = 135.16'
R = 1050.00'
PC STA = 532+79.50 'SB'
PT STA = 534+14.67 'SB'
DB = N05°22'17"W
DA = N02°00'15"E

PI STA = 535'SB'+88.30
Y = 189177.328
X = 622382.206
DELTA = 3°52'33" LT
D = 3°10'59"
T = 60.91'
L = 121.77'
R = 1800.00'
PC STA = 535'SB'+27.40
PT STA = 536'SB'+49.16
DB = N02°00'15"E
DA = N01°52'19"W

STATION	DESCRIPTION	RIGHT LANE	RIGHT SHOULDER
10+00'EB'	MATCH EXISTING	3.04%	-5.00%
11+01'EB'	BEGIN FULL SUPER	6.00%	6.00%
13+65'EB'	END FULL SUPER	6.00%	6.00%
15+42'EB'	BEGIN NORMAL CROWN	-2.00%	-2.00%
15+42'EB'	BEGIN NORMAL SHOULDER	-2.00%	-4.00%

STATION	DESCRIPTION	LEFT SHOULDER	LEFT LANE
10+00'WB'	MATCH EXISTING	-9.58%	-6.00%
10+44'WB'	BEGIN FULL SUPER	-6.00%	-6.00%
13+98'WB'	END FULL SUPER	-6.00%	-6.00%
14+43'WB'	LOW SHOULDER MATCH	-4.00%	-4.00%
14+87'WB'	BEGIN NORMAL CROWN	-4.00%	-2.00%

PI STA = 524'NB'+70.58
Y = 188060.265
X = 622419.224
DELTA = 3°52'31" RT
D = 3°10'59"
T = 60.90'
L = 121.75'
R = 1800.00'
PC STA = 524'NB'+09.69
PT STA = 525'NB'+31.43
DB = N01°55'43"W
DA = N01°56'48"E

PI STA = 527'NB'+11.50
Y = 188301.088
X = 622427.409
DELTA = 7°21'56" LT
D = 5°27'24"
T = 67.58'
L = 134.98'
R = 1050.00'
PC STA = 526'NB'+43.92
PT STA = 527'NB'+78.89
DB = N01°56'48"E
DA = N05°25'07"W

PI STA = 528'NB'+05.35
Y = 188394.707
X = 622418.529
DELTA = 5°30'29" LT
D = 10°25'03"
T = 26.46'
L = 52.87'
R = 550.00'
PC STA = 527'NB'+78.89
PT STA = 528'NB'+31.77
DB = N05°25'07"W
DA = N10°55'36"W

PI STA = 529'NB'+16.58
Y = 188503.956
X = 622397.438
DELTA = 34°10'24" RT
D = 52°05'13"
T = 33.81'
L = 65.61'
R = 110.00'
PC STA = 528'NB'+82.76
PT STA = 529'NB'+48.37
DB = N10°55'36"W
DA = N23°14'48"E

PI STA = 532'NB'+38.59
Y = 188827.217
X = 622393.648
DELTA = 10°02'54" RT
D = 4°05'33"
T = 123.08'
L = 245.53'
R = 1400.00'
PC STA = 531'NB'+15.51
PT STA = 533'NB'+61.04
DB = N11°55'13"W
DA = N01°52'19"W

PI STA = 12'WB'+30.50
Y = 188324.419
X = 622074.690
DELTA = 39°19'48" LT
D = 8°52'59"
T = 230.50'
L = 442.75'
R = 645.00'
PC STA = 10'WB'+00.00
PT STA = 14'WB'+42.75
DB = N76°26'04"E
DA = N37°06'16"E

PI STA = 15'WB'+53.63
Y = 188596.682
X = 622280.635
DELTA = 11°26'48" RT
D = 11°27'33"
T = 50.11'
L = 99.89'
R = 500.00'
PC STA = 15'WB'+03.52
PT STA = 16'WB'+03.41
DB = N37°06'16"E
DA = N48°33'04"E

PI STA = 17'WB'+91.92
Y = 188666.613
X = 622509.327
DELTA = 42°25'31" LT
D = 76°23'40"
T = 29.11'
L = 55.53'
R = 75.00'
PC STA = 17'WB'+62.81
PT STA = 18'WB'+18.35
DB = S87°21'36"E
DA = N50°12'53"E

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	ALIGNMENT DETAILS	SHEET 113	E

2

2

N

PI STA = 11'RAB'+23.21
Y = 188695.174
X = 622472.272
DELTA = 102°38'08" LT
D = 114°35'30"
T = 62.45'
L = 89.57'
R = 50.00'
PC STA = 10'RAB'+60.76
PT STA = 11'RAB'+50.33
DB = N04°28'05"E
DA = S81°49'57"W

PI STA = 12'RAB'+22.39
Y = 188676.064
X = 622339.129
DELTA = 77°21'52" LT
D = 63°39'43"
T = 72.06'
L = 121.52'
R = 90.00'
PC STA = 11'RAB'+50.33
PT STA = 12'RAB'+71.85
DB = S81°49'57"W
DA = S04°28'05"W

PI STA = 13'RAB'+34.30
Y = 188541.965
X = 622328.651
DELTA = 102°38'08" LT
D = 114°35'30"
T = 62.45'
L = 89.57'
R = 50.00'
PC STA = 12'RAB'+71.85
PT STA = 13'RAB'+61.42
DB = S04°28'05"W
DA = N81°49'57"E

PI STA = 13'RAB'+93.01
Y = 188555.326
X = 622421.737
DELTA = 38°40'56" LT
D = 63°39'43"
T = 31.59'
L = 60.76'
R = 90.00'
PC STA = 13'RAB'+61.42
PT STA = 14'RAB'+22.18
DB = N81°49'57"E
DA = N43°09'01"E

PI STA = 0'NW'+99.79
Y = 188732.243
X = 622390.138
DELTA = 50°08'42" RT
D = 67°24'24"
T = 39.77'
L = 74.39'
R = 85.00'
PC STA = 0'NW'+60.02
PT STA = 1'NW'+34.41
DB = S14°58'26"E
DA = S35°10'17"W

PI STA = 1'NW'+54.29
Y = 188683.484
X = 622355.779
DELTA = 15°06'01" RT
D = 38°11'50"
T = 19.88'
L = 39.53'
R = 150.00'
PC STA = 1'NW'+34.41
PT STA = 1'NW'+73.94
DB = S35°10'17"W
DA = S50°16'18"W

PI STA = 2'NW'+66.63
Y = 188611.535
X = 622269.203
DELTA = 14°12'03" LT
D = 11°04'56"
T = 64.40'
L = 128.14'
R = 517.00'
PC STA = 2'NW'+02.23
PT STA = 3'NW'+30.37
DB = S50°16'18"W
DA = S36°04'15"W

PI STA = 3'NW'+83.34
Y = 188519.378
X = 622196.782
DELTA = 0°23'25" LT
D = 1°32'22"
T = 12.68'
L = 25.36'
R = 3722.01'
PC STA = 3'NW'+70.67
PT STA = 3'NW'+96.02
DB = S35°29'22"W
DA = S35°05'57"W

PI STA = 1'SW'+44.55
Y = 188548.104
X = 622337.535
DELTA = 54°50'18" RT
D = 143°14'22"
T = 20.75'
L = 38.28'
R = 40.00'
PC STA = 1'SW'+23.80
PT STA = 1'SW'+62.09
DB = S89°13'54"E
DA = S34°23'36"E

PI STA = 1'SW'+92.47
Y = 188505.910
X = 622366.419
DELTA = 17°16'32" RT
D = 28°38'52"
T = 30.38'
L = 60.30'
R = 200.00'
PC STA = 1'SW'+62.09
PT STA = 2'SW'+22.39
DB = S34°23'36"E
DA = S17°07'04"E

PI STA = 2'SW'+75.61
Y = 188424.083
X = 622381.815
DELTA = 1°47'09" RT
D = 7°12'25"
T = 12.39'
L = 24.78'
R = 795.00'
PC STA = 2'SW'+63.22
PT STA = 2'SW'+87.99
DB = S10°42'41"E
DA = S08°55'33"E

PI STA = 1'NE'+59.93
Y = 188688.993
X = 622463.426
DELTA = 55°02'45" RT
D = 143°14'22"
T = 20.84'
L = 38.43'
R = 40.00'
PC STA = 1'NE'+39.08
PT STA = 1'NE'+77.51
DB = N89°20'46"W
DA = N34°18'02"W

PI STA = 2'NE'+07.82
Y = 188731.246
X = 622434.602
DELTA = 17°13'57" RT
D = 28°38'52"
T = 30.31'
L = 60.15'
R = 200.00'
PC STA = 1'NE'+77.51
PT STA = 2'NE'+37.67
DB = N34°18'02"W
DA = N17°04'05"W

PI STA = 2'NE'+90.28
Y = 188812.311
X = 622418.609
DELTA = 2°53'39" RT
D = 11°34'30"
T = 12.50'
L = 25.00'
R = 495.00'
PC STA = 2'NE'+77.77
PT STA = 3'NE'+02.77
DB = N11°24'11"W
DA = N08°30'32"W

PI STA = 1'SE'+45.16
Y = 188511.787
X = 622409.032
DELTA = 57°46'09" RT
D = 67°24'24"
T = 46.89'
L = 85.70'
R = 85.00'
PC STA = 0'SE'+98.27
PT STA = 1'SE'+83.97
DB = N15°01'16"W
DA = N42°44'54"E

PI STA = 2'SE'+20.21
Y = 188572.834
X = 622465.461
DELTA = 10°42'55" LT
D = 52°05'13"
T = 10.32'
L = 20.57'
R = 110.00'
PC STA = 2'SE'+09.90
PT STA = 2'SE'+30.47
DB = N42°44'54"E
DA = N32°01'59"E

PI STA = 2'SE'+67.64
Y = 188613.091
X = 622490.648
DELTA = 14°07'34" RT
D = 19°05'55"
T = 37.17'
L = 73.96'
R = 300.00'
PC STA = 2'SE'+30.47
PT STA = 3'SE'+04.43
DB = N32°01'59"E
DA = N46°09'34"E

PI STA = 4'SE'+31.82
Y = 188727.075
X = 622609.342
DELTA = 1°31'28" RT
D = 5°49'22"
T = 13.09'
L = 26.18'
R = 984.00'
PC STA = 4'SE'+18.73
PT STA = 4'SE'+44.91
DB = N46°09'34"E
DA = N47°41'01"E

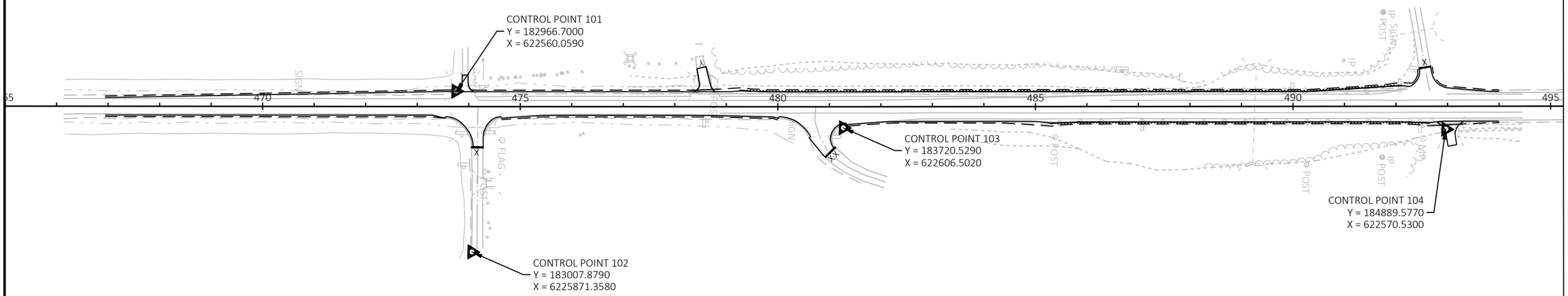
EP: 4+61.60 'NW'
PRC: 3+96.02 'NW'
PC: 3+70.67 'NW'
PT: 3+30.37 'NW'
4'NW'
S42°20'49"W
14'WB'
14'EB'
CTH C
15'WB'
15'EB'
16'WB'
N42°46'09"E
BP: 0+00.00 'SW'
PI: 0+25.00 'SW'
N35°38'39"E
PC: 0+61.26 'SW'
PCC: 1+23.80 'SW'
PCC: 1+62.09 'SW'
EP: 2+87.99 'SW'
PC: 2+63.22 'SW'
PT: 2+22.39 'SW'
2'SW'
S5°50'09"E
PC: 2+02.23 'NW'
PT: 1+73.94 'NW'
PCC: 1+34.41 'NW'
PC: 0+60.02 'NW'
PI: 0+25.00 'NW'
BP: 0+00.00 'NW'
S50°16'18"W
S14°58'26"E
S7°46'51"E
PCC: 12+71.85 'RAB'
12'RAB'
PCC: 13+61.42 'RAB'
PCC: 11+50.33 'RAB'
14'RAB'
BP: 10+00.00 'RAB'
EP: 14+22.18 'RAB'
PCC: 10+60.76 'RAB'
529'SB'
528'SB'
527'SB'
529'NB'
528'NB'
527'NB'
STH 69
533'SB'
532'SB'
534'SB'
533'NB'
532'NB'
534'NB'
STH 69
N7°53'46"W
N15°01'16"W
BP: 0+00.00 'SE'
PT: 0+46.15 'SE'
PI: 0+55.19 'SE'
PC: 0+98.27 'SE'
2'SE'
N42°44'54"E
PT: 1+83.97 'SE'
PC: 2+09.90 'SE'
PRC: 2+30.47 'SE'
PT: 3+04.43 'SE'
N46°09'34"E
4'SE'
PC: 4+18.73 'SE'
EP: 4+44.91 'SE'
N6°37'28"W
2'NE'
PCC: 1+77.51 'NE'
PT: 2+37.67 'NE'
PC: 2+77.77 'NE'
EP: 3+02.77 'NE'
PCC: 1+39.08 'NE'
PC: 0+87.45 'NE'
18'WB'
18'EB'
S45°08'24"W
CTH C (URBAN RD)
19'WB'
19'EB'
PI: 0+27.09 'NE'
BP: 0+00.00 'NE'
S52°15'33"W

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	ALIGNMENT DETAILS	SHEET 114	E

BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
101	473+75.11	893.84	CP REBSET 3/4
102	474+06.30	914.995	CP MAG
103	481+27.00	918.940	CP REBSET 3/4
104	492+96.60	951.720	CP NAIL

N

MATCH LINE 495+25

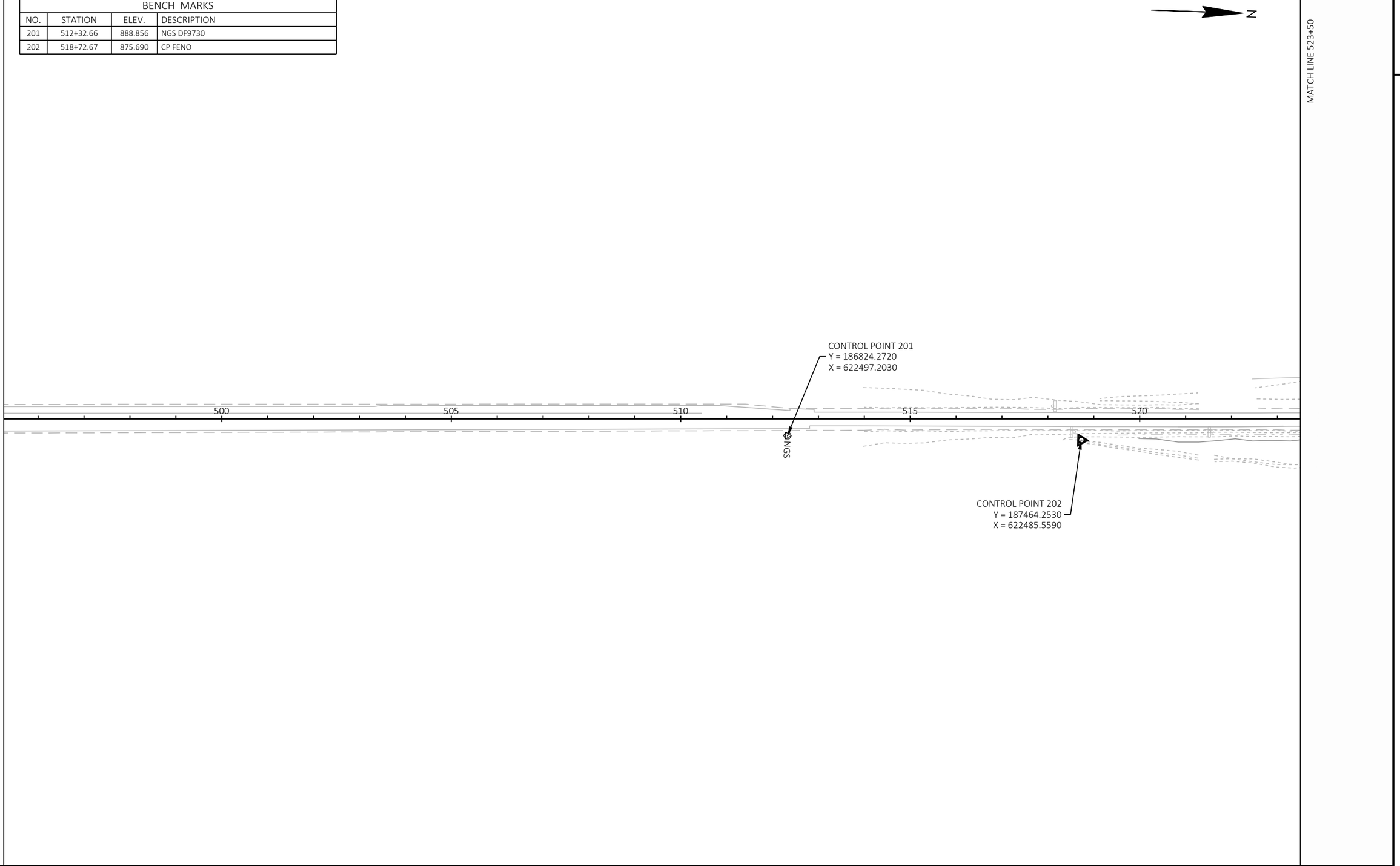


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CONTROL POINTS	SHEET 115	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\027301-CP.DWG
LAYOUT NAME - 027301-cp

PLOT DATE : 6/9/2025 8:57 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:200 FT

BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
201	512+32.66	888.856	NGS DF9730
202	518+72.67	875.690	CP FENO



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CONTROL POINTS	SHEET 116	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\027301-CP.DWG
LAYOUT NAME - 027302-cp
PLOT DATE : 6/9/2025 8:57 AM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2

N

BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
301	8+56.13'EB'	850.790	CP FENO
302	527+75.15	859.215	CP HUB
303	530+57.25	856.370	CP MAG
304	21+96.62'EB'	848.190	CP FENO
305	539+27.40	841.240	CP FENO
306	540+11.85	842.262	CP HUB
307	543+70.68	830.296	CP HUB
308	543+73.25	846.170	BM DISK SE TW B-23-23-58
309	544+39.56	837.690	CP REBSET 3/4
310	546+98.63	844.718	CP MAG

CONTROL POINT 301
Y = 188210.6500
X = 621712.7500

CONTROL POINT 302
Y = 188365.7340
X = 622440.9390

CONTROL POINT 303
Y = 188646.8290
X = 622437.0960

CONTROL POINT 304
Y = 188946.4350
X = 622811.8430

CONTROL POINT 305
Y = 189515.0710
X = 622333.9580

CONTROL POINT 306
Y = 189515.0710
X = 622333.9580

CONTROL POINT 307
Y = 189958.2740
X = 622326.2260

CONTROL POINT 308
Y = 189962.7010
X = 622379.3200

CONTROL POINT 309
Y = 190030.2060
X = 622412.5910

CONTROL POINT 310
Y = 190288.2320
X = 622356.1820

MATCH LINE 523+50

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CONTROL POINTS	SHEET 117	E

1690-04-73

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	21.000	21.000
0004	201.0220	Grubbing	ID	8.000	8.000
0006	203.0100	Removing Small Pipe Culverts	EACH	7.000	7.000
0008	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-23-023	EACH	1.000	1.000
0010	204.0100	Removing Concrete Pavement	SY	143.000	143.000
0014	204.0115	Removing Asphaltic Surface Butt Joints	SY	25.000	25.000
0016	204.0120	Removing Asphaltic Surface Milling	SY	16,490.000	16,490.000
0018	204.0130	Removing Curb	LF	425.000	425.000
0020	204.0150	Removing Curb & Gutter	LF	730.000	730.000
0022	204.0155	Removing Concrete Sidewalk	SY	285.000	285.000
0024	204.0165	Removing Guardrail	LF	1,504.000	1,504.000
0026	204.0220	Removing Inlets	EACH	1.000	1.000
0028	204.0245	Removing Storm Sewer (size) 01. 15-INCH	LF	125.000	125.000
0030	205.0100	Excavation Common	CY	22,816.000	22,816.000
0032	206.1001	Excavation for Structures Bridges (structure) 01. B-23-023	EACH	1.000	1.000
0034	208.0100	Borrow	CY	3,000.000	3,000.000
0036	209.1500	Backfill Granular Grade 1	TON	170.000	170.000
0038	209.2500	Backfill Granular Grade 2	TON	1,080.000	1,080.000
0042	211.0101	Prepare Foundation for Asphaltic Paving (project) 02. 1690-04-73	EACH	1.000	1.000
0044	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	27.000	27.000
0048	213.0100	Finishing Roadway (project) 02. 1690-04-73	EACH	1.000	1.000
0050	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,360.000	1,360.000
0052	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	16,630.000	16,630.000
0054	312.0110	Select Crushed Material	TON	4,780.000	4,780.000
0056	371.2000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	EACH	8.000	8.000
0058	405.0100	Coloring Concrete WisDOT Red	CY	249.000	249.000
0060	415.0090	Concrete Pavement 9-Inch	SY	3,120.000	3,120.000
0062	415.0410	Concrete Pavement Approach Slab	SY	147.000	147.000
0064	415.2010	Concrete Truck Apron 12-inch	SY	740.000	740.000
0066	415.4100	Concrete Pavement Joint Filling	SY	3,920.000	3,920.000
0068	450.4000	HMA Cold Weather Paving	TON	500.000	500.000
0070	450.6224	HMA Pavement 4 MT 58-28 S	TON	5,827.000	5,827.000
0072	455.0605	Tack Coat	GAL	2,306.000	2,306.000
0074	465.0105	Asphaltic Surface	TON	101.000	101.000
0076	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	24.000	24.000
0078	465.0125	Asphaltic Surface Temporary	TON	670.000	670.000
0080	465.0315	Asphaltic Flumes	SY	50.000	50.000
0082	465.0520	Asphaltic Rumble Strips, Shoulder	LF	3,786.000	3,786.000
0084	465.0560	Asphaltic Rumble Strips, Centerline	LF	207.000	207.000
0086	502.0100	Concrete Masonry Bridges	CY	73.000	73.000
0088	502.3200	Protective Surface Treatment	SY	230.000	230.000
0090	502.3210	Pigmented Surface Sealer	SY	48.000	48.000
0092	502.4205	Adhesive Anchors No. 5 Bar	EACH	140.000	140.000
0094	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	17,080.000	17,080.000
0096	509.1500	Concrete Surface Repair	SF	100.000	100.000
0098	517.0901.S	Preparation and Coating of Top Flanges (structure) 01. B-23-023	EACH	1.000	1.000
0100	517.3001.S	Structure Overcoating Cleaning and Priming (structure) 01. B-23-023	EACH	1.000	1.000
0102	517.4001.S	Containment and Collection of Waste Materials (structure) 01. B-23-023	EACH	1.000	1.000
0104	517.6001.S	Portable Decontamination Facility	EACH	1.000	1.000

1690-04-73

Line	Item	Item Description	Unit	Total	Qty
0106	520.3318	Culvert Pipe Class III-A 18-Inch	LF	136.000	136.000
0108	520.3324	Culvert Pipe Class III-A 24-Inch	LF	76.000	76.000
0110	521.1518	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 6 to 1	EACH	6.000	6.000
0112	521.1524	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 6 to 1	EACH	4.000	4.000
0118	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	180.000	180.000
0120	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	3.000	3.000
0124	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	3.000	3.000
0128	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	300.000	300.000
0130	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	1,022.000	1,022.000
0132	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	346.000	346.000
0134	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF	1,129.000	1,129.000
0136	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	1,000.000	1,000.000
0138	601.0581	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type R	LF	410.000	410.000
0140	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	58.000	58.000
0142	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	30.000	30.000
0144	602.0405	Concrete Sidewalk 4-Inch	SF	7,362.000	7,362.000
0146	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	10.000	10.000
0148	602.0810	Concrete Driveway 6-Inch	SY	100.000	100.000
0150	602.3010	Concrete Surface Drains	CY	4.000	4.000
0152	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,225.000	1,225.000
0154	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,225.000	1,225.000
0156	603.8500	Anchoring Concrete Barrier Temporary Precast	LF	1,225.000	1,225.000
0158	606.0200	Riprap Medium	CY	107.000	107.000
0160	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	155.000	155.000
0162	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	465.000	465.000
0164	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	111.000	111.000
0166	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	148.000	148.000
0168	611.0624	Inlet Covers Type H	EACH	4.000	4.000
0170	611.0627	Inlet Covers Type HM	EACH	9.000	9.000
0172	611.0639	Inlet Covers Type H-S	EACH	2.000	2.000
0174	611.0642	Inlet Covers Type MS	EACH	2.000	2.000
0176	611.0652	Inlet Covers Type T	EACH	3.000	3.000
0178	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0180	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
0182	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000
0184	611.3004	Inlets 4-FT Diameter	EACH	5.000	5.000
0186	611.3225	Inlets 2x2.5-FT	EACH	1.000	1.000
0188	611.3230	Inlets 2x3-FT	EACH	9.000	9.000
0190	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0194	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
0198	614.0905	Crash Cushions Temporary	EACH	2.000	2.000
0200	614.2300	MGS Guardrail 3	LF	2,100.000	2,100.000
0206	614.2350	MGS Guardrail Short Radius	LF	112.500	112.500
0208	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0210	614.2610	MGS Guardrail Terminal EAT	EACH	7.000	7.000
0212	614.2630	MGS Guardrail Short Radius Terminal	EACH	1.000	1.000
0216	618.0100	Maintenance and Repair of Haul Roads (project) 02. 1690-04-73	EACH	1.000	1.000
0218	619.1000	Mobilization	EACH	0.500	0.500
0220	620.0300	Concrete Median Sloped Nose	SF	163.000	163.000

1690-04-73

Line	Item	Item Description	Unit	Total	Qty
0222	624.0100	Water	MGAL	190.000	190.000
0224	625.0500	Salvaged Topsoil	SY	32,380.000	32,380.000
0226	627.0200	Mulching	SY	10,810.000	10,810.000
0228	628.1504	Silt Fence	LF	2,754.000	2,754.000
0230	628.1520	Silt Fence Maintenance	LF	2,754.000	2,754.000
0232	628.1905	Mobilizations Erosion Control	EACH	10.000	10.000
0234	628.1910	Mobilizations Emergency Erosion Control	EACH	8.000	8.000
0236	628.2004	Erosion Mat Class I Type B	SY	24,260.000	24,260.000
0238	628.2008	Erosion Mat Urban Class I Type B	SY	1,280.000	1,280.000
0242	628.7005	Inlet Protection Type A	EACH	9.000	9.000
0244	628.7015	Inlet Protection Type C	EACH	23.000	23.000
0246	628.7504	Temporary Ditch Checks	LF	930.000	930.000
0248	628.7555	Culvert Pipe Checks	EACH	8.000	8.000
0250	628.7570	Rock Bags	EACH	102.000	102.000
0252	629.0210	Fertilizer Type B	CWT	22.780	22.780
0254	630.0130	Seeding Mixture No. 30	LB	942.000	942.000
0256	630.0180	Seeding Mixture No. 80	LB	131.000	131.000
0258	630.0200	Seeding Temporary	LB	100.000	100.000
0260	630.0500	Seed Water	MGAL	213.000	213.000
0262	633.5200	Markers Culvert End	EACH	6.000	6.000
0264	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	23.000	23.000
0266	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	5.000	5.000
0268	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	8.000	8.000
0270	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	12.000	12.000
0272	637.2210	Signs Type II Reflective H	SF	418.040	418.040
0274	637.2230	Signs Type II Reflective F	SF	76.750	76.750
0276	638.2102	Moving Signs Type II	EACH	30.000	30.000
0278	638.2602	Removing Signs Type II	EACH	38.000	38.000
0280	638.3000	Removing Small Sign Supports	EACH	37.000	37.000
0282	638.4000	Moving Small Sign Supports	EACH	27.000	27.000
0284	642.5401	Field Office Type D	EACH	0.350	0.350
0286	643.0300	Traffic Control Drums	DAY	7,666.000	7,666.000
0288	643.0420	Traffic Control Barricades Type III	DAY	3,116.000	3,116.000
0290	643.0705	Traffic Control Warning Lights Type A	DAY	6,232.000	6,232.000
0292	643.0715	Traffic Control Warning Lights Type C	DAY	1,772.000	1,772.000
0294	643.0900	Traffic Control Signs	DAY	6,077.000	6,077.000
0298	643.0920	Traffic Control Covering Signs Type II	EACH	1.000	1.000
0300	643.1050	Traffic Control Signs PCMS	DAY	35.000	35.000
0302	643.3165	Temporary Marking Line Paint 6-Inch	LF	34,304.000	34,304.000
0306	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	17.000	17.000
0308	643.5000	Traffic Control	EACH	0.350	0.350
0310	644.1810	Temporary Pedestrian Barricade	LF	18.000	18.000
0312	645.0120	Geotextile Type HR	SY	308.000	308.000
0316	646.2025	Marking Line Grooved Black Epoxy 6-Inch	LF	319.000	319.000
0318	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	26,709.000	26,709.000
0322	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	842.000	842.000
0324	646.5020	Marking Arrow Epoxy	EACH	4.000	4.000
0326	646.5120	Marking Word Epoxy	EACH	2.000	2.000
0328	646.6120	Marking Stop Line Epoxy 18-Inch	LF	29.000	29.000

1690-04-73

Line	Item	Item Description	Unit	Total	Qty
0330	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	141.000	141.000
0332	646.7120	Marking Diagonal Epoxy 12-Inch	LF	971.000	971.000
0334	646.8120	Marking Curb Epoxy	LF	153.000	153.000
0336	646.8220	Marking Island Nose Epoxy	EACH	4.000	4.000
0338	646.9000	Marking Removal Line 4-Inch	LF	16,072.000	16,072.000
0340	646.9100	Marking Removal Line 8-Inch	LF	664.000	664.000
0342	650.4000	Construction Staking Storm Sewer	EACH	42.000	42.000
0344	650.4500	Construction Staking Subgrade	LF	2,706.000	2,706.000
0346	650.5000	Construction Staking Base	LF	7,662.000	7,662.000
0348	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	573.000	573.000
0350	650.6000	Construction Staking Pipe Culverts	EACH	6.000	6.000
0352	650.7500	Construction Staking Concrete Barrier	LF	1,225.000	1,225.000
0354	650.8000	Construction Staking Resurfacing Reference	LF	3,320.000	3,320.000
0356	650.8501	Construction Staking Electrical Installations (project) 01. 1690-04-73	EACH	1.000	1.000
0358	650.9000	Construction Staking Curb Ramps	EACH	1.000	1.000
0362	650.9911	Construction Staking Supplemental Control (project) 02. 1690-04-73	EACH	1.000	1.000
0364	650.9920	Construction Staking Slope Stakes	LF	7,692.000	7,692.000
0366	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,526.000	1,526.000
0368	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	120.000	120.000
0370	652.0605	Conduit Special 2-Inch	LF	183.000	183.000
0372	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	7.000	7.000
0374	654.0105	Concrete Bases Type 5	EACH	15.000	15.000
0376	654.0224	Concrete Control Cabinet Bases Type L24	EACH	1.000	1.000
0378	655.0610	Electrical Wire Lighting 12 AWG	LF	2,250.000	2,250.000
0380	655.0615	Electrical Wire Lighting 10 AWG	LF	6,595.000	6,595.000
0382	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. Intersection of STH 69 and CTH C	EACH	1.000	1.000
0384	657.0322	Poles Type 5-Aluminum	EACH	15.000	15.000
0386	657.0710	Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	EACH	15.000	15.000
0388	657.0825	Luminaire Arms Steel Type 13 Pole Clamp 15-FT	EACH	15.000	15.000
0390	659.1120	Luminaires Utility LED B	EACH	15.000	15.000
0392	659.2124	Lighting Control Cabinets 120/240 24-Inch	EACH	1.000	1.000
0394	690.0150	Sawing Asphalt	LF	3,193.000	3,193.000
0396	690.0250	Sawing Concrete	LF	28.000	28.000
0402	705.2005	Incentive Density PWL HMA Pavement	DOL	2,890.000	2,890.000
0404	705.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	240.000	240.000
0406	705.2010	Incentive Air Voids HMA Pavement	DOL	5,830.000	5,830.000
0408	706.0020	Incentive Compressive Strength Concrete Pavement	DOL	936.000	936.000
0410	729.0440	Incentive IRI Ride	DOL	957.000	957.000
0412	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. STA 543+68 - STA 544+16	EACH	1.000	1.000
0414	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	875.000	875.000
0416	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,232.000	1,232.000
0418	SPV.0060	Special 01. Construction Staking Roundabout	EACH	1.000	1.000
0420	SPV.0060	Special 02. Temporary Mailboxes	EACH	1.000	1.000
0422	SPV.0060	Special 03. Research and Locate Existing Land Parcel Monuments	EACH	10.000	10.000
0424	SPV.0060	Special 04. Verify and Replace Existing Land Parcel Monuments	EACH	10.000	10.000
0426	SPV.0085	Special 01. Native Pollinator Seeding Mixture No. 95A	LB	2.000	2.000
0428	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	331.000	331.000

					1690-04-73	
0430	SPV.0180	Special 02. Salvage and Replace Landscaping Stone	SY	66.000	66.000	

201-GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0205 GRUBBING STA	201.0220 GRUBBING ID	REMARKS
0010	474+00	-	477+00	LT	3	--	
0010	477+11	-	477+11	LT	--	5	
0010	477+21	-	477+21	LT	--	3	
0010	478+00	-	480+00	LT	2	--	
0010	485+00	-	487+00	RT	2	--	
0010	488+00	-	492+00	LT	4	--	
0010	488+00	-	493+00	RT	5	--	
				TOTAL 0010	16	8	
0030	530+00	-	535+00	LT	5	--	
				TOTAL 0030	5	0	
				PROJECT TOTAL	21	8	

204-REMOVING ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	SPV.0180.01 SPECIAL (01. REMOVING DISTRESSED PAVEMENT MILLING) SY	REMARKS
0010	466+94	-	488+73	STH 69	--	8620	173	
0010	474+05	-	474+28	WITTENWYLER RD	6	--	--	
0010	480+91	-	481+11	CEMETERY RD	7	--	--	
0010	489+79	-	494+00	STH 69	--	2810	57	
0010	492+45	-	492+67	PIERCE RD	6	--	--	
0010	536+49	-	543+68	STH 69	--	3890	78	
0010	542+24	-	542+51	CTH F (LAKE AVE)	6	--	--	
0010	544+16	-	546+63	STH 69	--	1140	23	
0010	5+26'EB'	-	5+50'EB'	CTH C	--	30	--	REMOVING ASPHALTIC INTERSECTION RUMBLE STRIP
				TOTAL 0010	25	16,490	331	

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204-REMOVING DRAINAGE

CATEGORY	STATION	TO	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 15-INCH) LF	REMARKS
0010	473+68	-	474+07	39.5' LT - 40.7' LT	1	--	--	CMCP 24-INCH
0010	478+38	-	478+81	39.8' LT - 40.4' LT	1	--	--	CMCP 24-INCH
0010	489+21	-	489+29	109.6' RT - 78.7' LT	1	--	--	CMCP 30-INCH
0010	492+60	-	493+38	50.4' RT - 47.6' RT	1	--	--	CMCP 18-INCH
				TOTAL 0010	4	0	0	
0030	10+86'EB'	-	11+06'EB'	29.1' RT - 28.7' RT	1	--	--	
0030	13+35'EB'	-	13+57'EB'	54.6' RT - 59.0' RT	1	--	--	
0030	17+18'EB'	-	17+77'EB'	48.9' RT - 78.1' LT	1	--	--	
0030	17+47'EB'	-	18+57'EB'	35.3'RT - 16.6' RT	--	1	125	
				TOTAL 0030	3	1	125	
				PROJECT TOTAL	7	1	125	

204-REMOVING CURB AND GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB & GUTTER LF	REMARKS
0010	542+65	-	543+21	CTH F NE RADIUS	0	85	
				TOTAL 0010	0	85	
0030	528+60	-	528+97	SW RADIUS	0	92	
0030	529+18	-	529+53	CTH C LT MEDIAN ISLAND	197	0	
0030	529+46	-	530+44	SE RADIUS	0	278	
0030	530+00	-	530+45	NW RADIUS	0	54	
0030	530+39	-	530+83	CTH C RT MEDIAN ISLAND	228	0	
0030	530+95	-	531+78	NE RADIUS	0	221	
				TOTAL 0030	425	645	
				PROJECT TOTAL	425	730	

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204-REMOVING CONCRETE

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0155 REMOVING CONCRETE SIDEWALK SY	REMARKS
0010	478+38	-	478+78	DRIVEWAY	143	--	
0010	539+78	-	539+83	HISTORIC MARKER CURB RAMP	--	7	
				TOTAL 0010	143	7	
0030	529+18	-	529+53	CTH C LT MEDIAN ISLAND	--	119	
0030	530+39	-	530+83	CTH C RT MEDIAN ISLAND	--	159	
				TOTAL 0030	0	278	
				PROJECT TOTAL	143	285	

204-REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF	REMARKS
0010	485+33	-	492+61	RT	729	
0010	488+36	-	491+90	LT	354	
0010	542+33	-	545+27	B-23-023, LT	254	
0010	543+20	-	545+27	B-23-023, RT	167	
				TOTAL 0010	1,504	

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EARTHWORK SUMMARY

CATEGORY	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (6) FACTOR 1.00	EXPANDED EBS BACKFILL (7) FACTOR 1.00	UNEXPANDED FILL	EXPANDED FILL (8) FACTOR 1.33	MASS ORDINATE +/- (9)	WASTE (10)	208.0100 BORROW CY	REMARKS
DIVISION 1														
0030	517+23 - 540+30	STAGE 1 - TEMPORARY WIDENING	615	0	0	615	0	0	2711	3,606	-2,991	--	--	
DIVISION 1 SUBTOTAL			615	0	0	615	0	0	2711	3,606	-2,991	0	3,000	
DIVISION 2														
0030	524+10'NB' - 528+50'NB'	STH 69-NB-STAGE 2 (1)	608	0	168	440	0	0	205	273	167	--	--	
0030	528+50'NB' - 532+50'NB'	SRFC TO SRFC RAB AREA NB	1,003	0	186	817	0	0	1673	2,226	-1,408	--	--	
0030	528+50'SB' - 532+50'SB'	SRFC TO SRFC RAB AREA SB	5,459	0	76	5,383	0	0	262	348	5,035	--	--	
0030	532+50'NB' - 536+49'NB'	STH 69-NB-STAGE 2 (2)	740	0	147	593	0	0	127	169	425	--	--	
0030	10+00'EB' - 14+50'EB'	STAGE 2 EB	1,209	0	95	1,114	0	0	131	175	940	--	--	
0030	10+00'WB' - 14+50'WB'	STAGE 2 WB	946	0	0	946	0	0	636	846	101	--	--	
DIVISION 2 SUBTOTAL			9,965	0	672	9,293	0	0	3,034	4,037	5,260	5,260	0	
DIVISION 3														
0030	517+23 - 524+10	69-STAGE 3 BEFORE RAB	343	0	110	233	0	0	70	94	140	--	--	
0030	528+50'SB' - 532+50'SB'	69-SB-RAB STAGE 3 (1)	1242	0	338	904	0	0	55	73	831	--	--	
0030	532+50'SB' - 536+49'SB'	SRFC TO SRFC RAB AREA SB	999	0	635	364	0	0	673	896	-532	--	--	
0030	532+50'SB' - 536+49'SB'	69-SB-RAB STAGE 3 (2)	1021	0	244	777	0	0	27	36	742	--	--	
0030	536+49 - 540+30	69-STAGE 3 AFTER RAB	322	0	50	272	0	0	13	18	255	--	--	
0010	466+94 - 494+00	69-WITTENWYLER-STAGE 3	6519	330	659	5,860	0	0	2086	4,063	3,086	--	--	
0010	488+74-489+79	CULVERT REPLACEMENT	1098	0	0	1,098	0	0	1098	1,461	-363	--	--	
0010	539+62 - 546+63	BRIDGE	337	0	13	324	0	0	167	22	102	--	--	
0010	10+50'F' - 11+21'F'	CTH F	25	0	0	25	0	0	1	2	24	--	--	
DIVISION 3 SUBTOTAL			11906	330	2049	9857	0	0	4190	6,665	4,285	4,285	0	
GRAND TOTAL			22,486	330	2,721	19,765	0	0	9,935	14,308	6,554	9,545	3,000	
TOTAL COMMON EXC			22,816											

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(6) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = X.2X

(7) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = X.4X. ITEM NUMBER 208.1100

(8) EXPANDED FILL FACTOR = X.6X

(9) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(10) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

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209-BACKFILL GRANULAR

CATEGORY	STATION	TO	STATION	LOCATION	209.1500 BACKFILL GRANULAR GRADE 1 TON	209.2500 BACKFILL GRANULAR GRADE 2 TON	REMARKS
0010	488+74	-	489+79	CULVERT REPLACEMENT	--	1,080	
				TOTAL 0010	0	1,080	
0030	19+00'WB'	-	532+50'NB'	DRAINAGE POND	170	--	
				TOTAL 0030	170	0	
				PROJECT TOTAL	170	1080	

211-PREPARE FOUNDATION

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	REMARKS
0010	466+94	-	473+54	STH 69, RT	7	
0010	474+63	-	480+00	STH 69, RT	6	
0010	481+33	-	485+54	STH 69, RT	5	
0010	492+09	-	494+00	STH 69, RT	2	
0010	493+00	-	494+00	STH 69, LT	1	
0010	536+49	-	538+39	STH 69, RT	2	
0010	536+49	-	539+62	STH 69, LT	4	
				TOTAL 0010	27	

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LAYOUT NAME – 030205-mq
PLOT DATE : 9/17/2025 1:38 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1:1

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305-AGGREGATE SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100 WATER MGAL	REMARKS
0010	466+94	-	473+54	LEFT TURN LANE, LT AND RT	150	840	760	10	
0010	473+54	-	478+54	LEFT TURN LANE, LT	70	860	810	10	
0010	474+63	-	480+00	LEFT TURN LANE, RT	45	--	--	1	
0010	478+54	-	488+73	LEFT TURN LANE, LT	120	1,680	1,740	18	
0010	481+33	-	484+42	LEFT TURN LANE, RT	26	--	--	1	
0010	484+42	-	488+73	LEFT TURN LANE, RT GUARDRAIL	48	230	--	3	
0010	488+73	-	489+79	CULVERT REPLACEMENT	24	560	600	6	
0010	488+73	-	492+36	LEFT TURN LANE, LT	76	420	300	5	
0010	489+79	-	494+00	LEFT TURN LANE, RT	46	220	--	3	
0010	492+36	-	494+00	LEFT TURN LANE, LT	16	--	--	1	
0010	536+49	-	539+62	STH 69	42	--	--	1	
0010	539+62	-	542+64	STH 69	57	120	--	2	
0010	539+78	-	539+83	HISTORIC MARKER CURB RAMP	--	3	--	--	
0010	542+64	-	543+53	STH 69	46	270	--	4	
0010	543+53	-	543+68	STH 69	12	--	--	1	CONCRETE APPROACH SLAB
0010	544+16	-	544+31	STH 69	12	9	--	1	CONCRETE APPROACH SLAB
0010	544+31	-	546+63	STH 69	120	550	--	7	
0010	466+94	-	494+00	STH 69/UNDISTRIBUTED	--	8	570	--	EBS
				TOTAL 0010	910	5,770	4,780	74	
0030	517+31	-	529+64	TEMP LT	12	1,160	--	12	
0030	530+15	-	539+77	TEMP LT	12	1,040	--	11	
0030	517+31	-	524+10	TEMP LT REGRADE	56	--	--	1	
0030	536+49	-	539+62	TEMP LT REGRADE	26	--	--	1	
0030	528+26'NB'	-	532+45'NB'	ROUNDABOUT	--	2,040	--	21	
0030	524+10'SB'	-	538+26'SB'	SB LEG	74	2,190	--	23	
0030	532+33'NB'	-	536+49'NB'	NB LEG	150	2,230	--	24	
0030	10+00'WB'	-	14+28'WB'	WB LEG	120	1,680	--	18	
0030	18+12'EB'	-	19+17'EB'	EB LEG	--	430	--	5	
				TOTAL 0030	450	10,770	0	116	
				PROJECT TOTAL	1360	16540	4780	190	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

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415-CONCRETE

CATEGORY	STATION	TO	STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	415.0090 CONCRETE PAVEMENT 9-INCH SY	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	415.2010 CONCRETE TRUCK APRON 12-INCH SY	415.4100 CONCRETE PAVEMENT JOINT FILLING SY	REMARKS
0010	543+53	-	544+31	B-23-023	--	--	147	--	--	
				TOTAL 0010	0	0	147	0	0	
0030	528+26'NB'	-	532+43'NB'	ROUNDABOUT	222	3,120	--	664	3,920	
0030	17+48'WB'	-	17+80'WB'	NE RADIUS	4	--	--	10	--	
0030	531+08'SB'	-	531+76'SB'	NW RADIUS	9	--	--	25	--	
0030	528+83'NB'	-	529+51'NB'	SE RADIUS	8	--	--	24	--	
0030	15+48'EB'	-	15+83'EB'	SW RADIUS	6	--	--	17	--	
				TOTAL 0030	249	3,120	0	740	3,920	
				PROJECT TOTAL	249	3120	147	740	3920	

460-HMA

CATEGORY	STATION	TO	STATION	LOCATION	AREA SY	LOWER LAYER DEPTH IN	MIDDLE LAYER DEPTH IN	UPPER LAYER DEPTH IN	450.4000 HMA COLD WEATHER PAVING TON	450.6224 HMA PAVEMENT 4 MT 58-28 S TON	455.0605 TACK COAT GAL	REMARKS
0010	466+94	-	473+54	STH 69	807	2.00	2.00	2.00	--	272	81	
0010	466+94	-	473+54	STH 69	440	--	--	2.00	--	50	31	
0010	466+94	-	488+73	STH 69	5092	--	--	2.00	--	571	357	
0010	466+94	-	488+73	MEDIAN/LEFT TURN LANES	2365	--	--	2.00	--	265	166	
0010	482+11	-	488+73	AUXILLIARY LANE	883	--	--	2.00	--	99	62	
0010	473+54	-	478+54	STH 69	944	2.00	2.00	2.00	--	318	95	
0010	478+54	-	485+59	STH 69	1614	2.00	2.00	2.00	--	543	162	
0010	485+59	-	488+73	STH 69	319	2.00	2.00	2.00	--	108	32	
0010	485+59	-	488+73	STH 69	100	--	--	2.00	--	12	10	
0010	488+73	-	489+79	CULVERT PIPE	695	2.00	2.00	2.00	--	234	70	
0010	489+79	-	492+17	MEDIAN/LEFT TURN LANES	57	--	--	2.00	--	7	6	
0010	489+79	-	492+26	STH 69, SHOULDER	268	2.00	2.00	2.00	--	91	27	
0010	491+00	-	494+00	AUXILLIARY LANE SB	318	--	--	2.00	--	36	32	
0010	489+79	-	494+00	AUXILLIARY LANE NB	562	--	--	2.00	--	63	57	
0010	489+79	-	494+00	STH 69	2064	--	--	2.00	--	232	145	
0010	536+49	-	542+64	STH 69	3309	--	--	2.00	--	371	232	
0010	542+64	-	543+53	STH 69	571	2.00	2.00	2.00	--	192	58	
0010	544+31	-	546+63	STH 69	1085	2.00	2.00	2.00	--	365	109	
0010	466+94	-	546+63	STH 69	--	--	--	--	328	--	--	
							TOTAL 0010		328	3,829	1,732	
0030	5+26'EB'	-	5+50'EB'	CTH C	30	--	--	2.00	--	4	3	
0030	524+10'NB'	-	528+27'NB'	NB SOUTH LEG	838	2.50	2.50	2.00	--	329	84	
0030	524+10'SB'	-	528+26'NB'	SB SOUTH LEG	786	2.50	2.50	2.00	--	309	79	
0030	524+10'NB'	-	527+55'NB'	MEDIAN	200	2.50	2.50	2.00	--	79	20	
0030	532+33'NB'	-	536+49'NB'	NB NORTH LEG	786	2.50	2.50	2.00	--	309	79	
0030	532+42'SB'	-	536+49'SB'	SB NORTH LEG	772	2.50	2.50	2.00	--	303	78	
0030	533+03'SB'	-	536+49'SB'	MEDIAN	201	2.50	2.50	2.00	--	79	21	
0030	18+12'EB'	-	19+18'EB'	EB LEG	478	3.00	0.00	2.00	--	134	48	
0030	10+00'WB'	-	14+28'WB'	WB LEG	1611	3.00	0.00	2.00	--	452	162	
0030	524+10'NB'	-	528+29'NB'	RAB	--	--	--	--	172	--	--	
							TOTAL 0030		172	1,998	574	
							PROJECT TOTAL		500	5827	2306	

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1690-04-62 PWL WITHIN LIMITS (PWL) MIXTURE USE TABLE

LOCATION	STATION	MIXTURE USE:	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO USE	
							MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12 FOOT DRIVING LANE (MAINLINE)	100+00 TO 466+94, 494+00 TO 524+10, 546+63 to 793+65	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	20090	2"	PWL	PWL NUCLEAR GAUGE
12 FOOT DRIVING LANE (AUXILLERY LANES)	242+47 TO 322+70, 494+00 TO 513+42 RT, 494+00 TO 503+41, 696+52 TO 733+72, 700+08 TO 793+65	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	4185	2"	PWL	PWL NUCLEAR GAUGE
VARIOUS TURN LANES/BYPASS LANES	135+44 TO 138+22, 548+90 TO 553+55, 550+00 TO 554+34, 555+16 TO 559+20, 555+90 TO 559+29, 559+03 TO 564+65, 625+72 TO 632+57, 720+55 TO 724+00, 736+60 TO 740+86, 756+15 TO 759+65	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	1205	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	100+00 TO 466+94, 494+00 TO 524+10, 546+63 TO 793+65	UPPER LAYER	MILLED EXISTING HMA SURFACE/ASPHALTIC SURFACE	4 MT 58-28 S	5600	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	VARIOUS	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	270	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	VARIOUS	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	270	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	VARIOUS	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	270	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	620	2"	PWL	DEPARTMENT ACCEPTANCE CORES*

*DEPARTMENT ACCEPTANCE CORES ARE CUT AND TESTED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER. THE DEPARTMENT WILL MAINTAIN CUSTODY OF THE CORES

1690-04-73 PWL WITHIN LIMITS (PWL) MIXTURE USE TABLE

LOCATION	STATION	MIXTURE USE:	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO USE	
							MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12 FOOT DRIVING LANE (MAINLINE)	466+94 TO 494+00, 536+49 TO 542+64	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	735	2"	PWL	PWL NUCLEAR GAUGE
12 FOOT DRIVING LANE (MAINLINE)	466+94 TO 489+79, 542+64 TO 543+53, 544+34 TO 546+63	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	361	2"	PWL	PWL CORES
12 FOOT DRIVING LANE (MAINLINE)	466+94 TO 489+79, 542+64 TO 543+53, 544+34 TO 546+63	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	362	2"	PWL	PWL CORES
12 FOOT DRIVING LANE (MAINLINE)	466+94 TO 489+79, 542+64 TO 543+53, 544+34 TO 546+63	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	361	2"	PWL	PWL CORES
12 FOOT DRIVING LANE (AUXILLERY LANES)	482+11 TO 488+73, 491+00 LT, 489+79 TO 494+00 RT	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	198	2"	PWL	PWL NUCLEAR GAUGE
VARIOUS MEDIAN AND LEFT TURN LANES	466+94 TO 488+73, 489+79 TO 492+17	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	272	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
12 FOOT DRIVING LANE NB AND SB LEGS	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	250	2"	PWL	PWL NUCLEAR GAUGE
12 FOOT DRIVING LANE NB AND SB LEGS	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	311	2.5"	PWL	PWL CORES
12 FOOT DRIVING LANE NB AND SB LEGS	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	310	2.5"	PWL	PWL CORES
EB AND WB ROUNDABOUT LEGS	10+00'EB' TO 14+28'EB', 10+00'EB' TO 14+28'WB', 18+12'EB' TO 19+18'EB', 18+08'WB' TO 19+18'WB'	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	235	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
EB AND WB ROUNDABOUT LEGS	10+00'EB' TO 14+28'EB', 10+00'EB' TO 14+28'WB', 18+12'EB' TO 19+18'EB', 18+08'WB' TO 19+18'WB'	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	351	3"	PWL	DEPARTMENT ACCEPTANCE CORES*
NB AND SB ROUNDABOUT MEDIAN	524+10'NB' TO 527+55'NB', 533+03'SB' - 536+49'SB'	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	46	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
NB AND SB ROUNDABOUT MEDIAN	524+10'NB' TO 527+55'NB', 533+03'SB' - 536+49'SB'	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	56	2.5"	PWL	DEPARTMENT ACCEPTANCE CORES*
NB AND SB ROUNDABOUT MEDIAN	524+10'NB' TO 527+55'NB', 533+03'SB' - 536+49'SB'	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	56	2.5"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS NB AND SB ROUNDABOUT SHOULDER WIDTH	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	109	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS NB AND SB ROUNDABOUT SHOULDER WIDTH	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	135	2.5"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS NB AND SB ROUNDABOUT SHOULDER WIDTH	524+09'NB' TO 528+27'NB', 524+09'SB' TO 528+26'SB', 532+33'NB' TO 536+49'NB', 532+42'SB' TO 536+49'SB'	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	135	2.5"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	466+94 TO 488+73, 489+79 TO 494+00, 536+49 TO 542+63	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	225	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	466+94 TO 492+26, 526+62 TO 543+53, 544+34 TO 546+63	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	244	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	466+94 TO 492+26, 526+62 TO 543+53, 544+34 TO 546+63	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	244	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS SHOULDER WIDTHS	466+94 TO 492+26, 526+62 TO 543+53, 544+34 TO 546+63	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	244	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
CULVERT REPLACEMENT	488+73 TO 489+79	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	78	2"	PWL	PWL NUCLEAR GAUGE
CULVERT REPLACEMENT	488+73 TO 489+79	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	78	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
CULVERT REPLACEMENT	488+73 TO 489+79	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	78	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS/RUMBLE STRIP PATCH	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	280	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 S	25	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS	MIDDLE LAYER	4 MT 58-28 S	4 MT 58-28 S	24	2"	PWL	DEPARTMENT ACCEPTANCE CORES*
VARIOUS	SIDEROADS/INTERSECTIONS	LOWER LAYER	BASE COURSE BACKFILL	4 MT 58-28 S	24	2"	PWL	DEPARTMENT ACCEPTANCE CORES*

*DEPARTMENT ACCEPTANCE CORES ARE CUT AND TESTED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER. THE DEPARTMENT WILL MAINTAIN CUSTODY OF THE CORES

465-DRIVEWAYS

CATEGORY	STATION	TO	STATION	LOCATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	602.0810 CONCRETE DRIVEWAY 6-INCH SY	* 690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF	REMARKS
0010	473+77	-	474+09	LT	12	10	--	12	--	
0010	478+38	-	478+78	LT	28	4	100	--	18	
				TOTAL 0010	40	14	100	12	18	
0030	10+76'EB'	-	11+15'EB'	RT	14	3	--	--	--	
0030	13+18'EB'	-	13+74'EB'	RT	36	7	--	--	--	
				TOTAL 0030	50	10	0	0	0	
				PROJECT TOTAL	90	24	100	12	18	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

465-ASPHALTIC FLUMES

465.0315

CATEGORY	STATION	LOCATION	ASPHALTIC FLUMES SY	REMARKS
0010	543+31	STH 69	10	END CURB AND GUTTER RUN OFF B-23-023
		TOTAL 0010	10	
0030	13+57'WB'	CTH C	10	END OF CURB AND GUTTER RUN IN NORTHWEST QUANDRANT ON CTH C
0030	14+24'EB	CTH C	10	END OF CURB AND GUTTER RUN IN SOUTHWEST QUANDRANT ON CTH C
0030	532+37'NB'	STH 69	10	END OF CURB AND GUTTER RUN IN NORTHEAST QUANDRANT ON STH 69
0030	532+46'SB'	STH 69	10	END OF CURB AND GUTTER RUN IN NORTHWEST QUANDRANT ON STH 69
		TOTAL 0030	40	
		PROJECT TOTAL	50	

465-ASPHALTIC SURFACE

465.0105

CATEGORY	STATION	TO	STATION	LOCATION	AREA SY	DEPTH IN	ASPHALTIC SURFACE TON	REMARKS
0010	466+94	-	473+54	STH 69, RT	147	2.00	17	
0010	474+63	-	480+00	STH 69, RT	120	2.00	14	
0010	481+33	-	485+54	STH 69, RT	94	2.00	11	
0010	492+09	-	494+00	STH 69, RT	32	2.00	4	
0010	493+00	-	494+00	STH 69, LT	23	2.00	3	
0010	536+49	-	538+39	STH 69, RT	43	2.00	5	
0010	536+49	-	539+62	STH 69, LT	70	2.00	8	
0010	539+78	-	539+83	HISTORIC MARKER CURB RAMP	1	2.00	1	
0010	466+94	-	494+00	STH 69	230	2.00	26	FOR REPLACING REMOVED DISTRESSED PAVEMENT MILLING
0010	536+49	-	546+63	STH 69	101	2.00	12	FOR REPLACING REMOVED DISTRESSED PAVEMENT MILLING
				TOTAL 0010			101	

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465-RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0520 ASPHALTIC RUMBLE STRIPS, SHOULDER LF	465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE LF	REMARKS
0010	466+94	-	494+00	SHOULDER, LT	1,848	--	
0010	466+94	-	494+00	SHOULDER, RT	1,606	--	
0010	544+56	-	546+63	NORTH B-23-023	332	207	
				TOTAL 0010	3,786	207	

465-TEMPORARY ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	AREA SY	DEPTH IN	465.0125 ASPHALTIC SURFACE TEMPORARY TON	REMARKS
0030	517+31	-	539+77	STH 69 LT	3190	3.75	670	STAGE 1 TEMP WIDENING
				TOTAL 0030			670	

520-CULVERT SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.3324 CULVERT PIPE CLASS III-A 24-INCH LF	521.1518 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1 EACH	521.1524 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 EACH	522.0430 CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	* 522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	* 633.5200 MARKERS CULVERT END EACH	REMARKS
0010	473+79	-	474+07	DRIVEWAY LT	--	28	--	2	--	--	--	
0010	478+30	-	478+78	DRIVEWAY LT	--	48	--	2	--	--	--	
0010	489+21	-	489+29	109.6' RT - 78.7' LT	--	--	--	--	180	2	2	
0010	492+60	-	493+38	DRIVEWAY RT	66	--	2	--	--	--	--	
				TOTAL 0010	66	76	2	4	180	2	2	
0030	10+80'EB'	-	11+09'EB'	DRIVEWAY RT	22	--	2	--	--	--	--	
0030	13+20'EB'	-	13+73'EB'	DRIVEWAY RT	48	--	2	--	--	--	--	
				TOTAL 0030	70	0	4	0	0	0	0	
				PROJECT TOTAL	136	76	6	4	180	2	2	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

601-CURB AND GUTTER SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	STAGE	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0581 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE R LF	601.0588 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT LF	601.0590 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT LF	REMARKS
0010	543+10	-	543+53	STH 69, LT	3	--	--	--	--	--	--	38	--	
0010	543+28	-	543+53	STH 69, RT	3	--	--	--	--	--	--	20	--	
0010	543+53	-	543+68	STH 69	3	--	--	--	--	--	--	--	30	CONCRETE APPROACH SLAB, LT AND RT
					TOTAL 0010	0	0	0	0	0	0	58	30	
0030	526+95'NB'	-	527+94'NB'	SB SPLITTER ISLAND	3	--	--	--	--	201	--	--	--	
0030	527+94'NB'	-	528+27'NB'	SB SPLITTER ISLAND	3	--	--	66	--	--	--	--	--	
0030	528+27'NB'	-	529+42'NB'	SB SPLITTER ISLAND	3	--	252	--	--	--	--	--	--	
0030	531+19'NB'	-	532+33'NB'	NB SPLITTER ISLAND	3	--	262	--	--	--	--	--	--	
0030	532+33'NB'	-	532+66'NB'	NB SPLITTER ISLAND	3	--	--	56	--	--	--	--	--	
0030	532+33'NB'	-	533+64'NB'	NB SPLITTER ISLAND	3	--	--	--	--	201	--	--	--	
0030	17+60'EB'	-	18+11'EB'	EB SPLITTER ISLAND	2	--	124	--	--	--	--	--	--	
0030	13+66'EB'	-	14+15'EB'	WB SPLITTER ISLAND	2	--	--	--	--	100	--	--	--	
0030	14+15'EB'	-	14+33'EB	WB SPLITTER ISLAND	2	--	--	31	--	--	--	--	--	
0030	14+33'EB	-	15+67'EB	WB SPLITTER ISLAND	2	--	348	--	--	--	--	--	--	
0030	10+00'RAB'	-	14+22'RAB'	CENTER TRUCK	3	300	--	--	--	--	--	--	--	
0030	10+00'RAB'	-	14+22'RAB'	CENTER FLAG	3	--	--	--	--	--	410	--	--	
0030	524+10'NB'	-	528+27'NB'	SB RT	3	--	--	--	--	417	--	--	--	
0030	528+27'NB'	-	17+76'EB'	SE RADIUS	2 & 3	--	--	--	255	--	--	--	--	
0030	17+76'EB'	-	18+24'EB'	SE RADIUS	2	--	36	--	--	--	--	--	--	
0030	18+24'EB'	-	19+17'EB'	SE RADIUS	2	--	--	105	--	--	--	--	--	
0030	18+15'WB'	-	532+33'NB'	NE RADIUS	2 & 3	--	--	--	195	--	--	--	--	
0030	18+15'WB'	-	18+32'WB'	NE RADIUS	2	--	--	--	--	16	--	--	--	
0030	18+32'WB'	-	19+19'WB'	NE RADIUS	2	--	--	88	--	--	--	--	--	
0030	13+61'WB'	-	14+28'WB'	NW RADIUS	3	--	--	--	--	65	--	--	--	
0030	14+28'WB'	-	532+43'NB'	NW RADIUS	3	--	--	--	395	--	--	--	--	
0030	14+28'EB'	-	528+25'SB'	SW RADIUS	3	--	--	--	284	--	--	--	--	
					TOTAL 0030	300	1,022	346	1,129	1,000	410	0	0	
					PROJECT TOTAL	300	1022	346	1129	1000	410	58	30	

602-CONCRETE SIDEWALK

CATEGORY	STATION	TO	STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	REMARKS
0010	539+78	-	539+83	HISTORIC MARKER CURB RAMP	62	10	
				TOTAL 0010	62	10	
0030	526+99'NB'	-	529+42'NB'	SB MEDIAN	1,990	--	
0030	531+19'NB'	-	533+59'NB'	NB MEDIAN	1,990	--	
0030	17+61'EB'	-	18+05'EB'	EB MEDIAN	560	--	
0030	13+71'EB'	-	15+67'EB'	WB MEDIAN	2,760	--	
				TOTAL 0030	7,300	0	
				PROJECT TOTAL	7362	10	

602-CONCRETE SURFACE DRAINS

CATEGORY	STATION	LOCATION	602.3010 CONCRETE SURFACE DRAINS CY	REMARKS
0010	543+24	STH 69	4	
		TOTAL 0010	4	

603-CONCRETE BARRIER

CATEGORY	STATION	TO	STATION	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	603.8500 ANCHORING CONCRETE BARRIER TEMPORARY PRECAST LF	614.0905 CRASH CUSHIONS TEMPORARY EACH	REMARKS
0030	517+23	-	529+66	STH 69 TEMP LT	1,225	1,225	1,225	2	STAGE 1
				TOTAL 0030	1,225	1,225	1,225	2	

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606-RIPRAP

CATEGORY	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY	REMARKS
0010	543+24	-	543+24	CONCRETE SURFACE DRAIN	12	--	
0010	543+31	-	543+31	FLUME	3	11	
				TOTAL 0010	15	11	
0030	18+89'WB'		18+89'WB'	STORM SEWER OUTLET	11	33	
0030	13+18'WB'	-	13+40'WB'	FLUME	8	26	
0030	13+29'WB'	-	13+54'WB'	STORM SEWER OUTLET	9	29	
0030	14+04'EB	-	14+08'EB	FLUME	4	15	
0030	531+22'NB'	-	531+49'NB'	STORM SEWER OUTLET	18	50	
0030	532+37'NB'	-	532+37'NB'	FLUME	9	30	
0030	532+46'SB'	-	532+46'SB'	FLUME	13	42	
0030	532+81'NB'	-	533+22'NB'	WEIR	11	43	
0030	533+56'NB'	-	533+56'NB'	STORM SEWER OUTLET	9	29	
				TOTAL 0030	92	297	
				PROJECT TOTAL	107	308	

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608-STORM SEWER PIPES

CATEGORY	STRUCTURE	TO	STRUCTURE	LOCATION	STAGE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT	REMARKS
0030	100	-	110	19.5' RT - 20.7' RT	2	--	235	--	--	858.47	854.95	0.0150	
0030	110	-	120	20.7' RT - 1.5' LT	2	--	106	--	--	854.85	853.26	0.0150	
0030	122	-	121	25.3' LT - 1.5' RT	3	28	--	--	--	854.84	854.28	0.0200	
0030	121	-	120	1.5' RT - 1.5' LT	3	21	--	--	--	854.18	853.76	0.0200	
0030	120	-	130	1.5' LT - 1.2' LT	2	--	--	65	--	852.66	851.43	0.0190	
0030	132	-	131	43.4' RT - 21.5' RT	2	--	--	23	--	851.35	851.20	0.0064	
0030	131	-	130	21.5' RT - 1.2' LT	2	--	--	23	--	850.90	850.73	0.0073	
0030	130	-	140	1.2' LT - 1.2' LT	2	--	--	--	81	850.23	849.83	0.0050	
0030	140	-	160	1.2' LT - 69.5' LT	2	--	--	--	67	849.73	849.39	0.0050	
0030	150	-	140	1.2' LT - 1.2' LT	2	19	--	--	--	852.46	852.26	0.0100	
0030	410	-	411	1.5' LT - 1.5' RT	2	7	--	--	--	852.57	852.50	0.0100	
0030	411	-	140	1.5' LT - 1.2' LT	2	--	61	--	--	852.00	850.82	0.0192	
0030	200	-	210	4.9'RT - 1.5' LT	3	8	--	--	--	847.73	847.58	0.0200	
0030	210	-	220	1.5' LT - 28.6' RT	2	--	34	--	--	847.08	846.48	0.0200	
0030	300	-	301	3.2' LT - 1.5' RT	2	7	--	--	--	849.99	849.54	0.0600	
0030	301	-	302	1.5' RT - 18.7' LT	2	20	--	--	--	849.44	848.23	0.0600	
0030	302	-	303	18.7' LT - 30.2' LT	2	--	19	--	--	847.73	846.56	0.0600	
0030	420	-	421	17.5' RT - 24.1' LT	2	45	--	--	--	851.50	851.28	0.0050	
0030	421	-	422	24.1' LT - 34.2' LT	2	--	10	--	--	850.78	850.73	0.0050	
					TOTAL 0030	155	465	111	148				

611-STORM SEWER STRUCTURES

CATEGORY	STRUCTURE	STATION	OFFSET**	STAGE	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	* 522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0652 INLET COVERS TYPE T EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	* 633.5200 MARKERS CULVERT END EACH	RIM ELEVATION FT	INVERT ELEVATION*** FT	DEPTH**** FT	REMARKS
0030	100	526+00'NB'	19.5' RT	2	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	862.73	858.47	3.24	
0030	110	528+31'NB'	20.7' RT	2	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	859.25	854.95	3.28	
0030	120	529+38'NB'	1.5' LT	2	--	--	1	--	--	--	--	1	--	--	--	--	--	--	--	858.24	852.66	4.56	
0030	121	529+33'SB'	1.5' RT	3	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	858.23	854.18	3.03	
0030	122	529+26'SB'	25.3' LT	3	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	858.17	854.84	2.31	
0030	130	10+00'RAB'	1.2' LT	2	--	--	--	--	--	--	1	--	1	--	--	--	--	--	--	857.13	850.23	5.82	SEE NOTE ******
0030	131	10+00'RAB'	21.5' RT	2	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	857.28	850.90	5.36	
0030	132	14+16'RAB'	43.4' RT	2	--	--	--	--	--	2	--	--	--	--	--	--	--	1	--	854.50	851.35	3.15	SEE NOTE *****
0030	140	10+88'RAB'	1.2' LT	2	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	855.94	849.73	5.13	SEE NOTE ******
0030	150	11+08'RAB'	1.2' LT	2	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	855.85	852.46	2.31	SEE NOTE ******
0030	160	18+08'EB'	69.5' LT	2	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	N/A	849.39	N/A	
0030	200	533+57'SB'	4.9' RT	3	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	851.61	847.73	2.86	
0030	210	533+56'NB'	1.5' LT	3	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	851.69	847.08	3.59	
0030	220	533+56'NB'	28.6' RT	2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	N/A	846.48	N/A	
0030	300	13+74'EB'	3.2' LT	2	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	853.72	849.99	2.71	
0030	301	13+71'WB'	1.5' RT	2	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	852.98	849.44	2.52	
0030	302	13+71'WB'	18.7' LT	2	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	851.96	847.73	3.21	
0030	303	13+55'WB'	30.2' LT	2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	N/A	846.56	N/A	
0030	410	18+03'EB'	1.5' LT	2	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	855.80	852.57	2.21	
0030	411	18+04'WB'	1.5' RT	2	--	--	1	--	--	--	--	--	--	--	1	--	--	--	--	855.73	852.00	2.71	
0030	420	18+83'EB'	17.5' RT	2	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	854.89	851.50	2.37	
0030	421	18+87'WB'	24.1' LT	2	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	854.82	850.78	3.02	
0030	422	18+88'WB'	34.2' LT	2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	N/A	850.73	N/A	
		-											--										
TOTAL 0030					3	1	4	9	2	2	3	1	1	1	5	1	9	1	4				

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

**STATIONS AND OFFSETS ARE CENTER OF STRUCTURE

*** INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

**** DEPTH = RIM ELEV - 0.02 (GUTTER WIDTH BTW RIM ELEV & CASTING) - INVERT ELEV - COVER HEIGHT - 6 INCH ADJUSTMENT RING HEIGHT

*****DEPTH = RIM ELEV - INVERT ELEV

******DEPTH = RIM ELEV - INVERT ELEV - COVER HEIGHT - 6 INCH ADJUSTMENT RING HEIGHT

614-MGS SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2350 MGS GUARDRAIL SHORT RADIUS LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2630 MGS GUARDRAIL SHORT RADIUS TERMINAL EACH	REMARKS
0010	479+28	-	479+81	STH 69 LT	--	--	--	1	--	
0010	479+81	-	491+56	STH 69 LT	1,175	--	--	--	--	
0010	485+31	-	485+84	STH 69 RT	--	--	--	1	--	
0010	485+84	-	492+09	STH 69 RT	625	--	--	--	--	
0010	492+09	-	492+62	STH 69 RT	--	--	--	1	--	
0010	491+56	-	492+09	STH 69 LT	--	--	--	1	--	
0010	540+64	-	541+18	STH 69 LT	--	--	--	1	--	
0010	541+18	-	543+31	STH 69 LT	212.5	--	--	--	--	
0010	542+66	-	543+31	STH 69 RT	--	112.5	--	--	1	
0010	543+31	-	543+68	STH 69 RT AND LT	--	--	79	--	--	
0010	544+16	-	544+54	STH 69 RT AND LT	--	--	79	--	--	
0010	544+54	-	545+16	STH 69 LT	62.5	--	--	--	--	
0010	544+54	-	544+79	STH 69 RT	25	--	--	--	--	
0010	545+16	-	545+69	STH 69 LT	--	--	--	1	--	
0010	544+79	-	545+32	STH 69 RT	--	--	--	1	--	
				TOTAL 0010	2,100	112.5	158	7	1	

620-CONCRETE MEDIAN NOSE

CATEGORY	STATION	LOCATION	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	REMARKS
0030	526+28'NB'	STH 69 SOUTH LEG MEDIAN	27	TYPE 1
0030	529+38'SB'	STH 69 SOUTH LEG MEDIAN	8	TYPE 2
0030	529+42'NB'	STH 69 SOUTH LEG MEDIAN	4	TYPE 2
0030	531+20'SB'	STH 69 NORTH LEG MEDIAN	4	TYPE 2
0030	531+21'NB'	STH 69 NORTH LEG MEDIAN	8	TYPE 2
0030	533+62'NB'	STH 69 NORTH LEG MEDIAN	27	TYPE 1
0030	13+69'EB'	CTH C WEST LEG MEDIAN	27	TYPE 1
0030	15+67'EB'	CTH C WEST LEG MEDIAN	3	TYPE 2
0030	15+87'WB'	CTH C WEST LEG MEDIAN	16	TYPE 2
0030	17+61'EB'	CTH C EAST LEG MEDIAN	13	TYPE 2
0030	17+68'WB'	CTH C EAST LEG MEDIAN	3	TYPE 2
0030	18+08'EB'	CTH C EAST LEG MEDIAN	23	TYPE 1
		TOTAL 0030	163	

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628-EROSION CONTROL SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	REMARKS
STAGE 3																	
0010	466+94	-	494+00	LT	--	--	--	1	1	5,410	--	--	--	440	3	--	
0010	484+40	-	494+00	RT	--	--	--	--	--	3,570	--	--	--	180	1	--	
0010	539+78	-	539+83	HISTORIC MARKER CURB RAMP	--	--	--	--	--	30	--	--	--	--	--	--	
0010	539+80	-	546+62	B-23-023 LT/RT	380	866	866	1	1	--	940	--	--	--	--	--	
0010	466+94	-	546+62	UNDISTRIBUTED	100	217	217	--	--	2,260	--	--	--	160	1	34	
				TOTAL 0010	480	1,083	1,083	2	2	11,270	940	0	0	780	5	34	
STAGE 1																	
0030	517+31	-	528+93	LT	--	--	--	--	--	840	--	--	--	--	--	--	
0030	530+17	-	532+42	LT	740	1,206	1,206	--	--	--	--	--	--	--	--	--	
0030	532+42	-	535+00	LT	1,390	--	--	--	--	--	--	--	--	--	--	--	
0030	535+00	-	539+77	LT	1,350	--	--	--	--	--	--	--	--	--	--	--	
0030	517+23	-	539+77	UNDISTRUBUTED	870	--	--	2	2	--	--	--	--	--	--	34	
STAGE 1 TOTALS					4,350	1,206	1,206	2	2	840	0	0	0	0	0	34	
STAGE 2/3																	
0030	517+31	-	530+32	LT/RT RAB SOUTH HALF	--	--	--	3	2	5,550	150	5	16	120	2	--	
0030	529+77		530+81	CENTRAL ISLAND	--	--	--	--	--	720	--	--	--	--	--	--	
0030	530+32	-	539+80	LT/RT RAB NORTH HALF	4,780	365	365	3	2	3,450	120	2	2	--	--	--	
0030	518+10		540+20	UNDISTRIBUTED	1,200	100	100	--	--	2,430	70	2	5	30	1	34	
STAGE 2/3 TOTALS					5,980	465	465	6	4	12,150	340	9	23	150	3	34	
				TOTAL 0030	10,330	1,671	1,671	8	6	12,990	340	9	23	150	3	68	
				PROJECT TOTAL	10810	2754	2754	10	8	24260	1280	9	23	930	8	102	

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630-LANDSCAPING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0180 SEEDING MIXTURE NO. 80 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	SPV.0085.01 SPECIAL (01. NATIVE POLLINATOR SEEDING MIXTURE NO. 95A) LB	REMARKS
STAGE 3												
0010	466+93	-	492+36	LT	5,410	3.41	174	12	--	31	--	
0010	484+40	-	494+00	RT	3,570	2.25	--	26	--	20	--	
0010	539+78	-	539+83	HISTORIC MARKER CURB RAMP	30	0.02	2	--	--	1	--	
0010	539+80	-	546+62	B-23-023 LT/RT	1,320	0.84	18	7	--	8	--	
0010	466+94	-	546+62	UNDISTRIBUTED	1,040	1.63	49	12	--	15	--	
				TOTAL 0010	11,370	8.15	243	57	0	75	0	
STAGE 1												
0030	517+23	-	528+93	LT	840	0.53	--	--	23	5	--	
0030	530+17	-	532+42	LT	740	0.47	--	--	20	5	--	
0030	532+42	-	535+00	LT	1,390	0.88	--	11	--	8	--	
0030	535+00	-	539+77	LT	1,350	0.86	--	--	37	8	--	
0030	517+23	-	539+77	UNDISTRUBUTED	440	0.69	--	--	20	7	--	
STAGE 1 TOTALS					4,760	3.43	0	11	100	33	0	
STAGE 2/3												
0030	517+23	-	530+32	LT/RT RAB SOUTH HALF	5,700	3.23	139	19	--	32	--	
0030	529+77	-	530+81	CENTRAL ISLAND	720	0.46	40	--	--	5	--	
0030	530+32	-	539+80	LT/RT RAB NORTH HALF	8,350	5.27	380	31	--	47	1	
0030	518+10	-	540+20	UNDISTRIBUTED	1,480	2.24	140	13	--	21	1	
STAGE 2/3 TOTALS					16,250	11.20	699	63	0	105	2	
				TOTAL 0030	21,010	14.63	699	74	100	138	2	
				PROJECT TOTAL	32380	22.78	942	131	100	213	2	

637-PERMANENT SIGNING

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN FACES	SIGN WORDING	CODE	SIZE	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
0010	N3-1	497+91	RT	STH 69 NB	ONCOMING TRAFFIC USES CENTER LANE	W6-60	36"X36"	1	--	--	--	--	9.00	
0010	N3-2	501+61	LT	STH 69 SB	RIGHT LANE ENDS SYMBOL	W4-2R	36"X36"	1	--	--	--	--	9.00	
0010	N4-1	506+56	LT	STH 69 SB	RIGHT LANE ENDS	W9-1R	36"X36"	1	--	--	--	--	9.00	
0010	N10-1	546+55	RT	STH 69 NB	SPEED LIMIT 45	R2-1	24"X30"	1	--	--	--	5.00	--	
0010	N10-2	546+61	LT	STH 69 SB	SPEED LIMIT 45	R2-1	24"X30"	1	--	--	--	5.00	--	
0010	N10-3	558+59	RT	STH 69 NB	SPEED LIMIT 45	R2-1	24"X30"	1	--	--	--	5.00	--	
0010	N10-4	558+61	LT	STH 69 SB	SPEED LIMIT 45	R2-1	24"X30"	1	--	--	--	5.00	--	
0010	N10-5	568+35	LT	STH 69 SB	SPEED LIMIT 45	R2-1	24"X30"	1	--	--	--	--	--	
0010	N10-6	571+35	LT	STH 69 SB	SPEED REDUCTION AHEAD 45 MPH SYMBOL	W3-5	36"X36"	1	--	--	--	--	9.00	
							TOTAL 0010	9	0	0	0	20.00	36.00	

637-PERMANENT SIGNING SHEET 1

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN FACES	SIGN WORDING	CODE	SIZE	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
0030	N6-1	521+93	RT	STH 69 NB	ROUNDABOUT AHEAD	W2-6	30"X30"	1	--	--	--	--	6.25	
0030	N6-2	521+93	RT	STH 69 NB	20 MPH	W13-1	18"X18"	--	--	--	--	--	2.25	MOUNT BELOW N6-1
0030	N6-3	523+93	RT	STH 69 NB	ROUNDABOUT EXITS	D1-62	96"X66"	--	--	2	--	44.00	--	
0030	N7-1	526+97'SB'	LT	STH 69 NB	DO NOT ENTER	R5-1	30"X30"	1	--	--	--	6.25	--	
0030	N7-2	527+02'NB'	SPLITTER ISLAND	STH 69 NB	KEEP RIGHT SYMBOL	R4-7	24"X30"	1	--	--	--	5.00	--	
0030	N7-3	527+02'NB'	SPLITTER ISLAND	STH 69 NB	IN ROAD OBJECT MARKER	W5-54	18"X18"	--	--	--	--	--	2.25	MOUNT BELOW N7-2
0030	N7-4	528+24'SB'	LT	STH 69 NB	WRONG WAY	R5-1A	36"X24"	--	1	--	--	6.00	--	
0030	N7-5	529+34'SB'	SPLITTER ISLAND	RAB CENTER	SOUTH STH 69 EXIT	D1-67	42"X30"	--	--	--	1	8.75	--	REMOVABLE POSTS
0030	N7-6	529+38'NB'	SPLITTER ISLAND	STH 69 NB	YIELD	R1-2	36"X31"	--	--	--	1	3.88	--	REMOVABLE POSTS
0030	N7-7	529+48'NB'	RT	STH 69 NB	YIELD	R1-2	36"X31"	--	--	--	1	3.88	--	REMOVABLE POSTS
0030	N7-8	15+64'EB'	SPLITTER ISLAND	CTH C EB	YIELD	R1-2	36"X31"	--	--	--	1	3.88	--	REMOVABLE POSTS
0030	N7-9	15+72'EB'	RT	CTH C EB	YIELD	R1-2	36"X31"	--	--	--	1	3.88	--	REMOVABLE POSTS
0030	N7-10	13+36'RAB'	CENTER ISLAND	CTH C EB	ONE WAY (FOR ROUNDABOUTS)	R6-1R	36"X12"	1	--	--	--	3.00	--	
0030	N7-11	13+36'RAB'	CENTER ISLAND	CTH C EB	IN ROAD OBJECT MARKER	W5-54	18"X18"	--	--	--	--	10.00	--	MOUNT AT 4 FT
0030	N7-12	13+97'RAB'	CENTER ISLAND	STH 69 NB	ONE WAY (FOR ROUNDABOUTS)	R6-1R	36"X12"	1	--	--	--	3.00	--	
0030	N7-13	13+97'RAB'	CENTER ISLAND	STH 69 NB	IN ROAD OBJECT MARKER	W5-54	18"X18"	--	--	--	--	10.00	--	MOUNT AT 4 FT
0030	N7-14	15+83'WB'	SPLITTER ISLAND	RAB CENTER	WEST COUNTY C EXIT	D1-67	42"X30"	--	--	--	1	8.75	--	REMOVABLE POSTS
0030	N7-15	17+64'EB'	SPLITTER ISLAND	RAB CENTER	EAST COUNTY C/URBAN RD EXIT	D1-68	72"X30"	--	--	--	1	15.00	--	REMOVABLE POSTS
0030	N7-16	12+01'RAB'	CENTER ISLAND	STH 69 SB	ONE WAY (FOR ROUNDABOUTS)	R6-1R	36"X12"	1	--	--	--	3.00	--	
0030	N7-17	12+01'RAB'	CENTER ISLAND	STH 69 SB	IN ROAD OBJECT MARKER	W5-54	18"X18"	--	--	--	--	10.00	--	MOUNT AT 4 FT
0030	N7-18	11+22'RAB'	CENTER ISLAND	CTH C WB	ONE WAY (FOR ROUNDABOUTS)	R6-1R	36"X12"	1	--	--	--	3.00	--	
0030	N7-19	11+22'RAB'	CENTER ISLAND	CTH C WB	IN ROAD OBJECT MARKER	W5-54	18"X18"	--	--	--	--	10.00	--	MOUNT AT 4 FT
0030	N7-20	17+70'WB'	SPLITTER ISLAND	CTH C WB	YIELD	R1-2	36"X31"	--	--	--	1	3.88	--	REMOVABLE POSTS
0030	N7-21	18+05'EB'	SPLITTER ISLAND	CTH C WB	KEEP RIGHT SYMBOL	R4-7	24"X30"	1	--	--	--	5.00	--	
0030	N7-22	531+15'NB'	RT	CTH C WB	YIELD	R1-2	36"X31"	--	--	--	1	3.88	--	REMOVABLE POSTS
SUBTOTAL								8	1	2	9	174.03	10.75	

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637-PERMANENT SIGNING SHEET 2

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN FACES	SIGN WORDING	CODE	SIZE	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
0030	N7-23	531+35'SB'	LT	STH 69 SB	YIELD	R1-2	36"X31"	--	--	--	1	3.88	--	REMOVABLE POSTS
0030	N7-24	531+19'SB'	SPLITTER ISLAND	STH 69 SB	YIELD	R1-2	36"X31"	--	--	--	1	3.88	--	REMOVABLE POSTS
0030	N7-25	531+24'NB'	SPLITTER ISLAND	RAB CENTER	NORTH 69 EXIT	D1-1	42"X30"	--	--	--	1	8.75	--	REMOVABLE POSTS
0030	N7-26	532+34'NB'	RT	STH 69 NB	NORTH 69	J1-1	24"X39"	--	1	--	--	6.50	--	
0030	N7-27	532+34'NB'	RT	STH 69 SB	DO NOT ENTER	R5-1	30"X30"	--	--	--	--	6.25	--	MOUNT TO BACK OF N7-27
0030	N8-1	533+58'NB'	SPLITTER ISLAND	STH 69 NB	KEEP RIGHT SYMBOL	R4-7	24"x30"	1	--	--	--	5.00	--	
0030	N8-2	533+58'NB'	SPLITTER ISLAND	STH 69 NB	IN ROAD OBJECT MARKER	W5-54	18"X18"	--	--	--	--	--	2.25	MOUNT BELOW N8-1
0030	N8-3	535+26'NB'	RT	STH 69 NB	SPEED LIMIT 45	R2-1	24"X30"	--	--	--	--	5.00	--	
0030	N8-4	535+26'NB'	RT	STH 69 SB	WRONG WAY	R5-1A	36"X24"	1	--	--	--	6.25	--	MOUNT TO BACK OF N8-3
0030	N8-5	534+57'SB'	RT	STH 69 SB	ROUNDABOUT EXITS	D1-62	96"X66"	--	--	2	--	44.00	--	
0030	N8-6	536+63	RT	STH 69 SB	ROUNDABOUT AHEAD	W2-6	30"X30"	1	--	--	--	--	6.25	
0030	N8-7	536+63	RT	STH 69 SB	20 MPH	W13-1	18"X18"	--	--	--	--	--	2.25	MOUNT BELOW N8-6
0030	N11-1	11+51'EB'	RT	CTH C EB	ROUNDABOUT AHEAD	W2-6	30"X30"	--	1	--	--	--	6.25	
0030	N11-2	11+51'EB'	RT	CTH C EB	20 MPH	W13-1	18"X18"	--	--	--	--	--	2.25	MOUNT BELOW N11-1
0030	N11-3	12+71'WB'	LT	CTH C EB	DO NOT ENTER	R5-1	30"X30"	--	1	--	--	6.25	--	
0030	N11-4	12+71'WB'	LT	CTH C WB	SPEED LIMIT 45	R2-1	24"X30"	--	--	--	--	5.00	--	MOUNT TO BACK OF N11-3
0030	N11-5	13+20'EB'	LT	CTH C EB	ROUNDABOUT EXITS	D1-62	108"X66"	--	--	2	--	49.50	--	
0030	N11-6	13+74'EB'	SPLITTER ISLAND	CTH C WB	KEEP RIGHT SYMBOL	R4-7	24"x30"	1	--	--	--	5.00	--	
0030	N11-7	13+74'EB'	SPLITTER ISLAND	CTH C WB	IN ROAD OBJECT MARKER	W5-54	18"X18"	--	--	--	--	--	2.25	MOUNT BELOW N11-6
0030	N11-8	14+27'WB'	LT	CTH C EB	WRONG WAY	R5-1A	36"X24"	--	1	--	--	6.25	--	
0030	N11-9	14+27'WB'	LT	CTH C WB	WEST COUNTY C	J1-1	24"X39"	--	--	--	--	6.50	--	MOUNT TO BACK OF N11-8
0030	N12-1	19+12'EB'	RT	CTH C EB	EAST COUNTY C	J1-1	24"X39"	1	--	--	--	6.50	--	
0030	N12-2	19+32'WB'	LT	CTH C WB	ROUNDABOUT EXITS	D1-62	108"X66"	--	--	2	--	49.50	--	
0030	N12-3	20+37'EB'	LT	CTH C WB	ROUNDABOUT AHEAD	W2-6	30"X30"	1	--	--	--	--	6.25	
0030	N12-4	20+37'EB'	LT	CTH C WB	15 MPH	W13-1	18"X18"	--	--	--	--	--	2.25	MOUNT BELOW N12-3
SUBTOTAL								6	4	6	3	224.01	30.00	
						TOTAL 0030		14	5	8	12	398.04	40.75	
						PROJECT TOTAL		23	5	8	12	418.04	76.75	

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638-REMOVING SIGNS

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN FACES	SIGN WORDING	CODES	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	M1-1	472+41	LT	STH 69 NB	NO PASSING ZONE	W14-3	1	--	--	1	MOVE TO STATION 465+60
0010	M2-1	487+13	RT	STH 69 NB	RIGHT LANE ENDS	W9-1R	1	--	--	1	MOVE TO STATION 487+13
0010	R3-1	489+91	LT	STH 69 SB	ONCOMING TRAFFIC USES CENTER LANE	W6-60	--	1	1	--	
0010	M3-2	492+00	LT	STH 69 SB	RIGHT LANE ENDS SYMBOL	W4-2R	1	--	--	1	MOVE TO STATION 501+61
0010	M3-3	492+53	RT	STH 69 NB	RIGHT LANE ENDS SYMBOL	W4-2R	1	--	--	1	MOVE TO STATION 492+53
0010	R3-4	497+91	LT	STH 69 NB	ONCOMING TRAFFIC USES CENTER LANE	W6-60	--	1	1	--	
0010	M3-5	498+01	LT	STH 69 SB	RIGHT LANE ENDS	W9-1R	1	--	--	1	MOVE TO STATION 506+56
0010	R6-14	537+33	RT	STH 69 NB	SPEED LIMIT 50	R2-1	--	1	1	--	
0010	R7-1	538+96	RT	STH 69 NB	NO PASSING ZONE	W14-3	--	1	1	--	
0010	R7-2	538+96	RT	STH 69 NB	SPEED LIMIT 50	R2-1	--	1	--	--	
0010	M7-3	539+81	LT	STH 69 NB	HISTORICAL MARKER RIGHT	D5-64R	1	--	--	1	MOVE TO STATION 539+81
0010	M7-4	539+81	LT	STH 69 SB	HISTORICAL MARKER LEFT	D5-64L	1	--	--	--	MOVE TO STATION 539+81
0010	M7-5	541+14	LT	STH 69 SB	JCT, COUNTY C	J1-1	1	--	--	1	MOVE TO STATION 541+14
0010	M7-6	542+33	RT	STH 69 SB	COUNTY F	J13-1	1	--	--	1	MOVE TO STATION 542+33
0010	M7-7	542+58	LT	CTH F	TWO-DIRECTION LARGE ARROW	W1-7	1	--	--	1	MOVE TO STATION 542+58
0010	N7-8	542+75	LT	CTH F	STOP	R1-1	1	--	--	1	MOVE TO STATION 542+75
0010	R7-9	542+89	RT	STH 69 NB	LAKE AVE	M1-94	--	1	1	--	
0010	M7-10	543+04	LT	CTH C	NO PARKING AT ANY TIME	R7-1R	1	--	--	1	MOVE TO STATION 543+05
0010	M7-11	543+06	RT	STH 69 SB	NO PARKING AT ANY TIME	R7-1R	1	--	--	1	MOVE TO STATION 543+06
0010	M7-12	544+35	RT	STH 69 SB	SOUTH 69	J1-1	1	--	--	1	MOVE TO STATION 544+35
0010	M7-13	546+51	LT	STH 69 SB	NO PARKING ANYTIME, LEFT AND RIGHT	R7-1D	1	--	--	1	MOVE TO STATION 546+51
0010	R7-14	546+55	RT	STH 69 NB	SPEED LIMIT 50	R2-1	--	1	1	--	
0010	R7-15	546+61	LT	STH 69 SB	SPEED LIMIT 50	R2-1	--	1	1	--	
0010	M7-16	546+64	RT	STH 69 NB	NO PARKING ANYTIME, LEFT AND RIGHT	R7-1D	1	--	--	1	MOVE TO STATION 546+64
0010	R8-1	558+59	RT	STH 69 NB	SPEED LIMIT 50	R2-1	--	1	1	--	
0010	R8-2	558+61	LT	STH 69 SB	SPEED LIMIT 50	R2-1	--	1	1	--	
0010	R9-1	568+35	LT	STH 69 SB	SPEED LIMIT 50	R2-1	--	1	1	--	
0010	R9-2	573+63	LT	STH 69 SB	SPEED REDUCTION AHEAD 50 MPH SYMBOL	W3-5	--	1	1	--	
						TOTAL 0010	16	12	11	15	

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638-REMOVING SIGNS

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN FACES	SIGN WORDING	CODES	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0030	R5-1	518+11	LT	STH 69 SB	ADOPT A HIGHWAY	I55-56	--	1	1	--	
0030	R5-2	518+11	LT	STH 69 SB	HOLLIS'S AKC BOXERS	I55-56P	--	1	--	--	
0030	R5-3	521+58	RT	STH 69 NB	SPEED REDUCTION AHEAD 50 MPH SYMBOL	W3-5	--	1	1	--	REMOVE AFTER STAGE 2
0030	M5-4	524+01	LT	STH 69 SB	SPEED LIMIT 55	R2-1	1	--	--	1	MOVE TO STATION 526+97'SB', MOUNT TO BACK OF N7-1
0030	M5-5	524+23	RT	STH 69 NB	ADOPT A HIGHWAY	I55-56	1	--	--	1	MOVE TO STATION 525+93'NB'
0030	M5-6	524+23	RT	STH 69 NB	ZWINGLI UCC BROTHERHOOD	I55-56P	1	--	--	--	MOVE TO STATION 525+93'NB'
0030	M6-1	526+96	LT	STH 69 SB	SOUTH 69	J1-1	1	--	--	1	MOVE TO STATION 528+24'SB', MOUNT TO BACK OF N7-5
0030	M6-2	528+30	RT	STH 69 NB	SPEED LIMIT 50	R2-1	1	1	1	--	MOVE TO STATION 528+30 ON TEMP SUPPORT FOR STAGE 2, REMOVE FOR STAGE 3
0030	R6-3	528+83	LT	STH 69 NB	DO NOT ENTER	R5-1	--	1	1	--	
0030	R6-4	528+93	LT	CTH C EB	STOP	R1-1	--	1	1	--	
0030	R6-5	529+26	LT ISLAND	STH 69 NB	KEEP RIGHT SYMBOL	R4-7	--	1	1	--	
0030	R6-6	529+45	RT	STH 69 NB	COUNTY C, DOUBLE ARROW	J12-1	--	1	1	--	
0030	R6-7	529+49	LT ISLAND	CTH C EB	STOP	R1-1	--	1	1	--	
0030	R6-8	530+42	RT ISLAND	CTH C WB	STOP	R1-1	--	1	1	--	
0030	R6-9	530+44	RT	STH 69 SB	COUNTY C, DOUBLE ARROW	J12-1	--	1	1	--	
0030	R6-10	530+70	RT ISLAND	STH 69 SB	KEEP LEFT SYMBOL	R4-7	--	1	1	--	
0030	M6-11	532+86	RT	STH 69 NB	JCT, COUNTY C	J1-1	1	--	--	1	MOVE TO STATION 533+40
0030	R6-12	535+06	LT	STH 69 SB	WASHINGTON CHURCH; GREEN CARES FOOD PANTRY	NA	--	1	2	--	
0030	M6-13	535+23	RT	STH 69 NB	NEW GLARUS NORTH, MONTICELLO EAST	D1-2	1	--	--	2	MOVE TO STATION 535+65'NB'
0030	R6-14	537+34	RT	STH 69 NB	SPEED LIMIT 50	R2-1	--	1	1	--	
0030	R10-1	6+87'EB'	LT	CTH C WB	SPEED LIMIT 55	R2-1	--	1	1	--	
0030	R10-2	6+89'EB'	RT	CTH C EB	STOP AHEAD	W3-1	--	1	1	--	
0030	M10-3	10+44'EB'	RT	CTH C EB	NEW GLARUS NORTH, MONROE EAST	D1-2	1	--	--	1	MOVE TO STATION 10+44'EB'
0030	R10-4	13+80'EB'	RT	CTH C EB	69, DOUBLE ARROW	J12-1	--	1	1	--	
0030	R10-5	14+19'EB'	LT	CTH C EB	COUNTY C	M1-5A	--	1	1	--	
0030	R10-6	15+71'EB'	RT	CTH C EB	DOUBLE DIANGONAL ARROW	W12-1D	--	1	1	--	
0030	R11-1	17+70'EB'	LT	STH 69 SB	DO NOT ENTER	R5-1	--	1	1	--	
0030	R11-2	17+69'EB'	LT	CTH C WB	STOP	R1-1	--	1	1	--	
0030	R11-3	17+66'EB'	LT	CTH C EB	COUNTY C	M1-5A	--	1	1	--	
0030	R11-4	17+78'EB'	RT ISLAND	CTH C WB	DOUBLE DIANGONAL ARROW	W12-1D	--	1	1	--	
0030	M11-5	17+94'EB'	RT	CTH C EB	MONTICELLO POPULATION	I2-3	1	--	--	2	MOVE TO STATION 17+94'EB'
0030	M11-6	17+94'EB'	RT	CTH C EB	SNOW REMOVAL ORDINANCE	--	1	--	--	1	MOUNT BELOW M9-5
0030	R11-7	18+18'EB'	LT	CTH C WB	69, DOUBLE ARROW	J12-1	--	1	1	--	
0030	M11-8	18+20'EB'	RT	CTH C EB	VILLAGE SIGNS	--	3	--	--	1	MOVE TO STATION 18+62'EB'
0030	M11-9	18+63'EB'	RT	CTH C WB	SPEED LIMT 25 MPH	R2-1	1	--	--	1	MOVE TO STATION 20+37'EB'
0030	R11-10	18+73'EB'	LT	CTH C WB	JCT, 69	J1-1	--	1	1	--	
0030	R11-11	23+21'EB'	LT	CTH C WB	STOP AHEAD	W3-1	--	1	1	--	
						TOTAL 0030	14	26	26	12	
						PROJECT TOTAL	30	38	37	27	

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643-TEMPORARY PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH (WHITE) LF	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH (YELLOW) LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	* 646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	REMARKS
STAGE 3										
0010	460+94	-	492+43	ETW, CL	6,298	6,298	--	4,554	--	CL REMOVAL
0010	460+94	-	466+94	LT ETW	--	--	--	600	--	
0010	460+94	-	473+37	RT ETW	--	--	--	1,243	--	
0010	474+63	-	479+99	RT ETW	--	--	--	391	37	
0010	481+54	-	493+36	RT ETW	--	--	--	296	--	
0010	491+83	-	493+36	LT ETW	--	--	--	39	--	
0010	492+45	-	492+62	PIERCE RD	--	--	17	--	--	
				TOTAL 0010	12,596		17	7,123	37	
STAGE 1										
0030	513+13	-	543+74	ETW, CL	6,122	6,122	--	3,329	--	CL REMOVAL
0030	512+88	-	528+60	LT ETW	--	--	--	1,572	--	
0030	513+37	-	529+51	RT ETW	--	--	--	1,614	--	
0030	526+52	-	529+50	RT CHANNELIZING	--	--	--	--	298	
0030	529+20	-	530+83	LT, RT ETW SPLITTER ISLANDS	--	--	--	118	--	
0030	530+46	-	543+74	LT ETW	--	--	--	1,328	--	
0030	530+46	-	533+75	LT CHANNELIZING	--	--	--	--	329	
0030	531+43	-	541+76	RT ETW	--	--	--	818	--	
STAGE 2										
0030	518+00		541+66	ETW, CL	4,732	4,732	--	--	--	
				TOTAL 0030	21,708		0	8,779	627	
				PROJECT TOTAL	34304		17	15902	664	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

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643-TRAFFIC CONTROL SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	EST. SERVICE PERIOD	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	REMARKS
STAGE 3														
0010	539+78	-	539+83	HISTORIC MARKER CURB RAMP	5	50	--	--	--	10	--	--	18	
STAGE 3A														
0010	460+91	-	492+42	LEFT TURN LANE	5	125	80	160	15	35	--	--	--	
0010	445+00	-	495+00	PROJECT	5	--	--	--	--	95	--	--	--	
STAGE 3B														
0010	460+91	-	513+53	LEFT TURN LANE	49	2,646	686	1,372	343	686	1	--	--	1 CYCLE (COVER FOR STAGE 3B AND REMOVE FOR STAGE 4)
0010	445+00	-	495+00	PROJECT	49	--	--	--	--	931	--	--	--	
					TOTAL 0010	2,821	766	1,532	358	1,757	1	0	18	
STAGE 1														
0030	513+17	-	543+39	ROUNDABOUT	29	1,189	551	1,102	174	522	--	--	--	
0030	500+00	-	570+00	PROJECT	29	203	--	--	--	609	--	14	--	ADVANCED WARNING
STAGE 2														
0030	513+23	-	541+73	ROUNDABOUT	62	3,348	868	1,736	1,240	1,054	--	--	--	
0030	500+00	-	570+00	PROJECT	62	--	--	--	--	1,302	--	--	--	ADVANCED WARNING
STAGE 3														
0030	513+23	-	547+74	ROUNDABOUT	49	--	931	1,862	--	294	--	--	--	
0030	500+00	-	570+00	PROJECT	49	105	--	--	--	539	--	21	--	ADVANCED WARNING
					TOTAL 0030	4,845	2,350	4,700	1,414	4,320	0	35	0	
					PROJECT TOTAL	7666	3116	6232	1772	6077	1	35	18	

646-PAVEMENT MARKING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	646.2025 MARKING LINE GROOVED BLACK EPOXY 6-INCH LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (WHITE) LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	* 646.9000 MARKING REMOVAL LINE 4-INCH LF	REMARKS
0010	466+94	-	473+60	GORE, LT/RT	--	--	2568	--	--	--	--	--	189	--	--	--	--	
0010	466+94	-	492+28	LT LANE EDGE	--	2,534	--	--	--	--	--	--	--	--	--	--	--	
0010	466+94	-	473+55	RT LANE EDGE	--	661	--	--	--	--	--	--	--	--	--	--	--	
0010	474+63	-	477+38	CENTERLINE, LT	--	--	550	275	--	--	--	--	--	--	--	--	--	
0010	474+63	-	478+71	RT LANE EDGE	--	408	--	--	--	--	--	--	--	--	--	--	--	
0010	474+91	-	474+91	LT TURN LANE	--	--	--	--	1	--	--	--	--	--	--	--	--	LEFT TURN
0010	475+32	-	475+32	LT TURN LANE	--	--	--	--	--	1	--	--	--	--	--	--	--	WORD ONLY
0010	477+13	-	477+13	LT TURN LANE	--	--	--	--	1	--	--	--	--	--	--	--	--	LEFT TURN
0010	477+38	-	480+07	GORE, LT/RT	--	--	1064	--	--	--	--	--	118	--	--	--	--	
0010	478+71	-	480+01	RT LANE EDGE	--	33	--	--	--	--	--	--	--	--	--	--	--	3' SEGMENT, 9' GAP
0010	481+32	-	484+07	CENTERLINE, LT	--	--	550	275	--	--	--	--	--	--	--	--	--	
0010	481+32	-	494+00	RT PASSING LANE	319	325	--	--	--	--	--	--	--	--	--	--	--	12.5' WHITE SEGMENT, 12.5' BLACK EPOXY
0010	481+32	-	494+00	RT LANE EDGE	--	1,268	--	--	--	--	--	--	--	--	--	--	--	
0010	481+59	-	481+59	LT TURN LANE	--	--	--	--	1	--	--	--	--	--	--	--	--	LEFT TURN
0010	482+03	-	482+03	LT TURN LANE	--	--	--	--	--	1	--	--	--	--	--	--	--	WORD ONLY
0010	483+81	-	483+81	LT TURN LANE	--	--	--	--	1	--	--	--	--	--	--	--	--	LEFT TURN
0010	484+07	-	492+17	GORE, LT/RT	--	--	3106	--	--	--	--	--	225	--	--	--	--	
0010	485+59	-	491+59	LT TAPER, ISLAND GORE	--	600	--	--	--	--	--	--	--	157	--	--	--	
0010	493+03	-	493+81	LT LANE EDGE	--	21	--	--	--	--	--	--	--	--	--	--	--	3' SEGMENT, 9' GAP
0010	493+81	-	494+00	LT LANE EDGE	--	19	--	--	--	--	--	--	--	--	--	--	--	
0010	536+49	-	549+63	CENTERLINE, LT LANE EDGE	--	1314	2628	--	--	--	--	--	--	--	--	--	--	DOUBLE YELLOW
0010	536+49	-	538+31	RT LANE EDGE	--	182	--	--	--	--	--	--	--	--	--	--	--	
0010	539+02	-	539+82	RT LANE EDGE, HISTORICAL MARKER	--	250	--	--	--	--	--	--	--	--	--	--	170	LANE EDGE AND HISTORICAL MARKER PAINTED MEDIAN
0010	540+52	-	540+67	RT LANE EDGE	--	42	--	--	--	--	--	--	--	--	--	--	--	15' SEGMENT, 3' SEGMENT, 9' GAP
0010	543+28	-	546+63	RT LANE EDGE	--	335	--	--	--	--	--	--	--	--	--	--	--	
0010	10+54'F'	-	11+59'F'	CENTERLINE	--	--	210	--	--	--	--	--	--	--	--	--	--	
0010	10+54'F'	-	10+59'F'	CTH F STOPLINE	--	--	--	--	--	--	29	--	--	--	--	--	--	
				TOTAL 0010	319	18,668		550	4	2	29	0	689		0	0	170	
0030	524+10'NB'	-	529+49'SB'	SB LT/RT	--	870	1,528	58	--	--	--	--	77	--	51	1	--	
0030	531+15'NB'	-	536+49'NB'	NB LT/RT	--	877	1,539	58	--	--	--	--	84	--	51	1	--	
0030	10+00'EB'	-	15+73'EB'	WB RT/LT	--	908	1,816	105	--	--	--	--	83	--	51	1	--	
0030	17+49'EB'	-	19+17'EB'	EB RT/LT	--	--	503	71	--	--	--	--	38	--	--	1	--	
0030	10+00'RAB'	-	14+22'RAB'	RAB	--	--	--	--	--	--	--	141	--	--	--	--	--	
				TOTAL 0030	0	8,041		292	0	0	0	141	282		153	4	0	
				PROJECT TOTAL	319	26709		842	4	2	29	141	971		153	4	170	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

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650-STAKING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.7500 CONSTRUCTION STAKING CONCRETE BARRIER LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0060.01 SPECIAL (01. CONSTRUCTION STAKING ROUNDABOUT) EACH	REMARKS
0010	466+94	-	494+00	STH 69	--	2,706	2,706	--	4	--	2,706	1	2,706	--	
0010	539+62	-	546+63	GUARDRAIL AND BRIDGE	--	--	623	88	--	--	614	--	653	--	
				TOTAL 0010	0	2,706	3,329	88	4	0	3,320	1	3,359	0	
0030	517+23	-	540+20	TEMPORARY WIDENING	--	--	2,297	--	--	1,225	--	--	2,297	--	
0030	517+23	-	526+93'NB'	SOUTH LEG	--	--	970	273	--	--	--	--	970	--	
0030	526+93'NB'	-	533+66'NB'	ROUNDABOUT	42	--	--	--	--	--	--	--	--	1	
0030	533+66'NB'	-	539+62	NORTH LEG	--	--	596	--	--	--	--	--	596	--	
0030	10+00'EB'	-	13+64'EB'	WEST LEG	--	--	364	--	2	--	--	--	364	--	
0030	18+12'EB'	-	19+18'EB'	EAST LEG	--	--	106	212	--	--	--	--	106	--	
				TOTAL 0030	42	0	4,333	485	2	1,225	0	0	4,333	1	
				PROJECT TOTAL	42	2706	7662	573	6	1225	3320	1	7692	1	

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652-ELECTRICAL CONDUIT

CATEGORY	STATION	TO	STATION	LOCATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	REMARKS
0030	529+38	-	529+38	LC TO PB1	--	60	--	
0030	529+38	-	529+20	PB1 TO LB1	12	--	--	
0030	529+20	-	528+86	LB1 TO LB2	109	--	--	
0030	528+86	-	528+39	LB2 TO LB3	109	--	--	
0030	529+38	-	530+89	PB1 TO PB2	120	--	--	
0030	530+89	-	530+84	PB2 TO LB4	45	--	--	
0030	530+89	-	531+60	PB2 TO PB3	115	--	--	
0030	530+89	-	531+70	PB2 TO LB5	126	--	--	
0030	531+70	-	532+65	LB5 TO LB6	98	--	--	
0030	532+65	-	533+71	LB6 TO LB7	109	--	--	
0030	531+60	-	531+22	PB3 TO PB4	--	--	95	
0030	531+22	-	531+33	PB4 TO LB8	14	--	--	
0030	531+22	-	531+15	PB4 TO LB9	66	--	--	
0030	531+15	-	531+41	LB9 TO LB10	69	--	--	
0030	531+22	-	530+19	PB4 TO PB5	124	--	--	
0030	530+19	-	530+14	PB5 TO LB11	7	--	--	
0030	530+14	-	529+41	LB11 TO PB6	105	--	--	
0030	529+14	-	529+32	PB6 TO LB12	29	--	--	
0030	529+32	-	527+92	LB12 TO LB13	107	--	--	
0030	527+92	-	526+40	LB13 TO LB14	156	--	--	
0030	529+41	-	529+14	PB6 TO PB7	--	--	88	
0030	529+14	-	529+14	PB7 TO LB15	6	--	--	
0030	529+14	-	529+38	PB7 TO LC	--	60	--	
				TOTAL 0030	1,526	120	183	

653-PULL BOXES

CATEGORY	STATION	DIRECTION	LOCATION	653.0164 PULL BOXES NON-CONDUCTIVE 24X42-INCH EACH	REMARKS
0030	529+38	LEFT	80	1	PB1
0030	530+52	LEFT	75	1	PB2
0030	531+89	LEFT	45	1	PB3
0030	531+60	LEFT	42	1	PB4
0030	530+22	RIGHT	88	1	PB5
0030	529+19	RIGHT	29	1	PB6
0030	529+41	LEFT	55	1	PB7
			TOTAL 0030	7	

654-ELECTRICAL CABINET

CATEGORY	STATION	DIRECTION	LOCATION	654.0224 CONCRETE CONTROL CABINET BASES TYPE L24 EACH	659.2124 LIGHTING CONTROL CABINETS 120/240 24-INCH EACH	REMARKS
0030	529+38	LEFT	80	1	1	LIGHTING CABINET
			TOTAL 0030	1	1	

654-CONCRETE BASES

CATEGORY	STATION	LOCATION	654.0105 CONCRETE BASES TYPE 5 EACH	REMARKS
0030	529+20	LEFT	1	LB1
0030	528+86	LEFT	1	LB2
0030	528+39	LEFT	1	LB3
0030	530+84	LEFT	1	LB4
0030	531+70	LEFT	1	LB5
0030	532+65	LEFT	1	LB6
0030	533+71	LEFT	1	LB7
0030	531+33	RIGHT	1	LB8
0030	531+15	RIGHT	1	LB9
0030	531+41	RIGHT	1	LB10
0030	530+14	RIGHT	1	LB11
0030	529+32	RIGHT	1	LB12
0030	527+92	RIGHT	1	LB13
0030	526+40	RIGHT	1	LB14
0030	529+14	LEFT	1	LB15
		TOTAL 0030	15	

655-STREET LIGHT WIRE

CATEGORY	STATION	TO	STATION	LOCATION	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	REMARKS
0030	529+38	-	528+39	STH 69	--	863	LC TO LB3
0030	529+20	-	533+71	STH 69	--	1,837	LB1 TO LB7
0030	529+38	-	529+38	STH 69	--	2,455	LC TO PB1
0030	529+32	-	531+41	STH 69	--	1,440	LB12 TO LB10
0030	529+20			STH 69	150	--	LB1 UP POLE
0030	528+86			STH 69	150	--	LB2 UP POLE
0030	528+39			STH 69	150	--	LB3 UP POLE
0030	530+84			STH 69	150	--	LB4 UP POLE
0030	531+70			STH 69	150	--	LB5 UP POLE
0030	532+65			STH 69	150	--	LB6 UP POLE
0030	533+71			STH 69	150	--	LB7 UP POLE
0030	531+33			STH 69	150	--	LB8 UP POLE
0030	531+15			STH 69	150	--	LB9 UP POLE
0030	531+41			STH 69	150	--	LB10 UP POLE
0030	530+14			STH 69	150	--	LB11 UP POLE
0030	529+32			STH 69	150	--	LB12 UP POLE
0030	527+92			STH 69	150	--	LB13 UP POLE
0030	526+40			STH 69	150	--	LB14 UP POLE
0030	529+14			STH 69	150	--	LB 15 UP POLE
				TOTAL 0030	2,250	6,595	

656-ELECTRICAL SERVICE

CATEGORY	STATION	TO	STATION	LOCATION	656.0201.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (01. INTERSECTION OF STH 69 AND CTH C) EACH	REMARKS
0030	524+10'NB'	-	536+49'NB'	INTERSECTION OF STH 69 AND CTH C	1	
				TOTAL 0030	1	

3

657-POLES, ARMS, EQUIPMENT

CATEGORY	STATION	LOCATION	657.0322 POLES TYPE 5-ALUMINUM EACH	657.0710 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT EACH	657.0825 LUMINAIRE ARMS STEEL TYPE 13 POLE CLAMP 15-FT EACH	659.1120 LUMINAIRES UTILITY LED B EACH	REMARKS
0030	529+20	LEFT	1	1	1	1	LB1
0030	528+86	LEFT	1	1	1	1	LB2
0030	528+39	LEFT	1	1	1	1	LB3
0030	530+84	LEFT	1	1	1	1	LB4
0030	531+70	LEFT	1	1	1	1	LB5
0030	532+65	LEFT	1	1	1	1	LB6
0030	533+71	LEFT	1	1	1	1	LB7
0030	531+33	RIGHT	1	1	1	1	LB8
0030	531+15	RIGHT	1	1	1	1	LB9
0030	531+41	RIGHT	1	1	1	1	LB10
0030	530+14	RIGHT	1	1	1	1	LB11
0030	529+32	RIGHT	1	1	1	1	LB12
0030	527+92	RIGHT	1	1	1	1	LB13
0030	526+40	RIGHT	1	1	1	1	LB14
0030	529+14	LEFT	1	1	1	1	LB15
		TOTAL 0030	15	15	15	15	

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LAYOUT NAME – 0302031-mq
PLOT DATE : 9/17/2025 1:38 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1:1

3

690-SAW CUTS

CATEGORY	STATION	TO	STATION	LOCATION	* 690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF	REMARKS
0010	469+93	-	492+26	LEFT TURN LANE	2,562	--	
0010	474+05	-	474+28	WITTENWYLER RD	23	--	
0010	480+93	-	481+12	CEMETERY RD	20	--	
0010	492+44	-	492+67	PIERCE RD	23	--	
0010	539+77	-	539+84	HISTORICAL MARKER CURB RAMP	9	5	
0010	540+35	-	542+64	STH 69	364	--	
0010	542+24	-	542+51	LAKE AVE	27	--	
0010	546+63	-	546+63	STH 69	31	--	
				TOTAL 0010	3,059	5	
0030	524+10	-	524+10	STH 69	30	--	
0030	536+49	-	536+49	STH 69	30	--	
0030	10+00'EB'	-	10+00'EB'	CTH C	23	--	
0030	19+18'EB'	-	19+18'EB'	CTH C (URBAN RD)	39	5	
				TOTAL 0030	122	5	
				PROJECT TOTAL	3181	10	

999-INSTALLING BIRD DETERRENT

CATEGORY	STATION	TO	STATION	LOCATION	999.2000.S.01 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 543+68 - 544+16) EACH	REMARKS
0010	543+68	-	544+16	B-23-023	1	
				TOTAL 0010	1	

SPV-TEMPORARY MAILBOXES

CATEGORY	LOCATION	SPV.0060.02 SPECIAL (02. TEMPORARY MAILBOXES) EACH	REMARKS
0030	CTH C	1	
	TOTAL 0030	1	

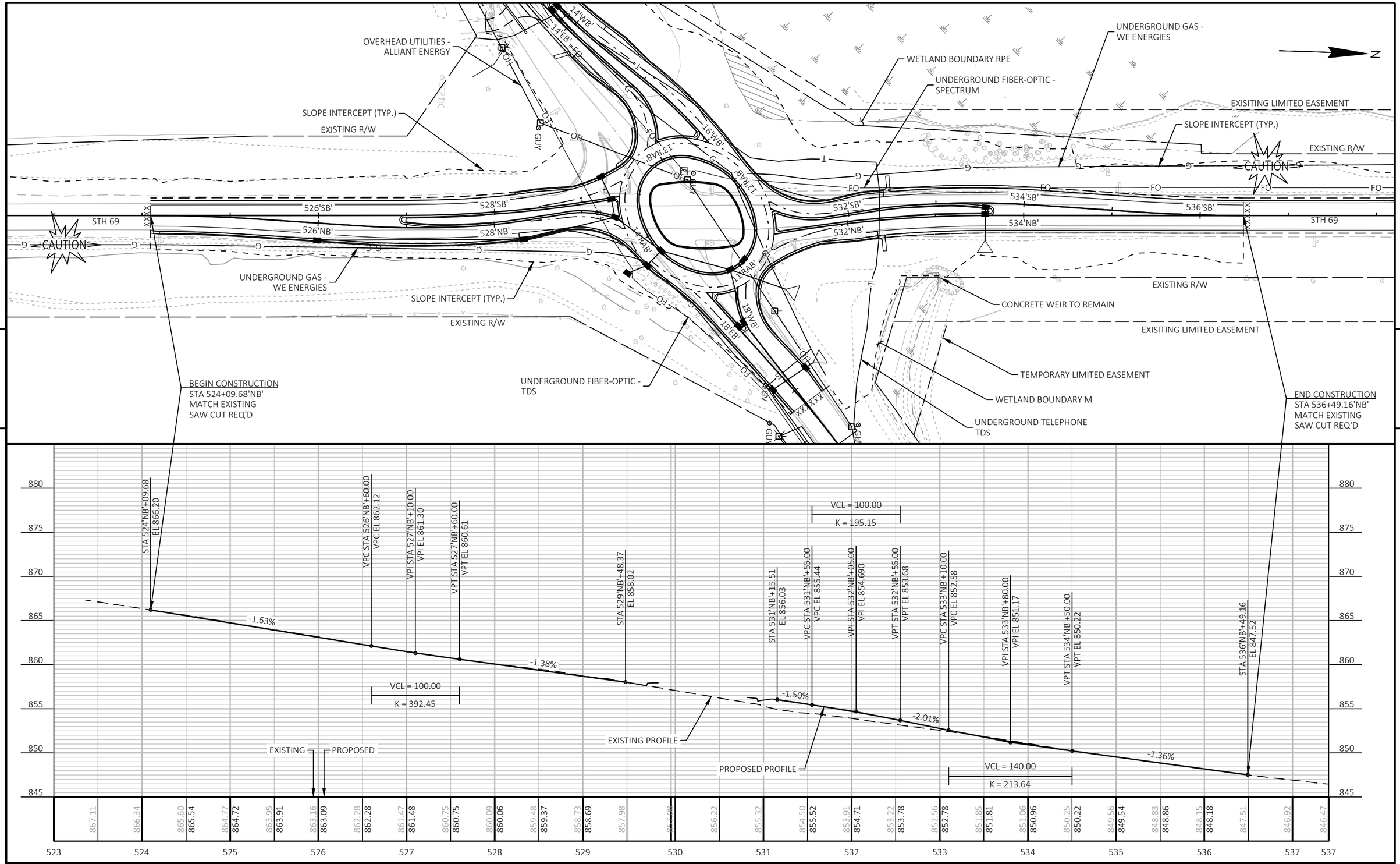
SPV-LANDSCAPING STONE

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0180.02 SPECIAL (02. SALVAGE AND REPLACE LANDSCAPING STONE) SY	REMARKS
0010	478+35	-	478+84	DRIVEWAY, LT	66	
				TOTAL 0010	66	

SPV-VERIFY MONUMENTS

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.03 SPECIAL (03. RESEARCH AND LOCATE EXISTING LAND PARCEL MONUMENTS) EACH	SPV.0060.04 SPECIAL (04. VERIFY AND REPLACE EXISTING LAND PARCEL MONUMENTS) EACH	REMARKS
0010	466+94	-	546+63	PROJECT	10	10	
				TOTAL 0010	10	10	

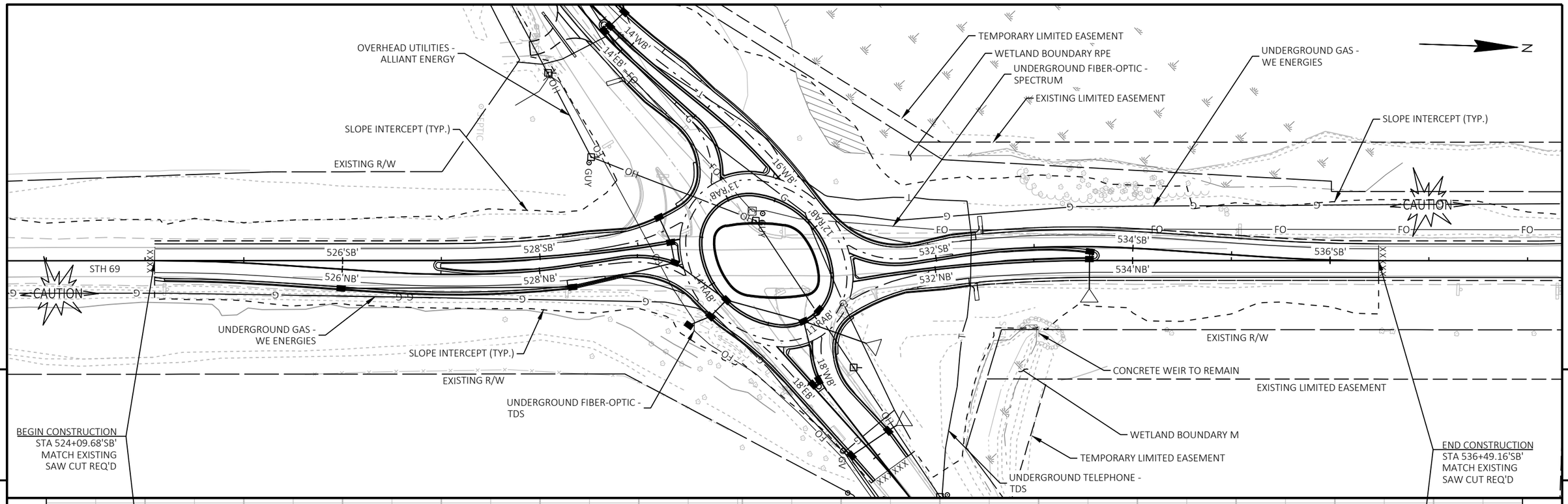
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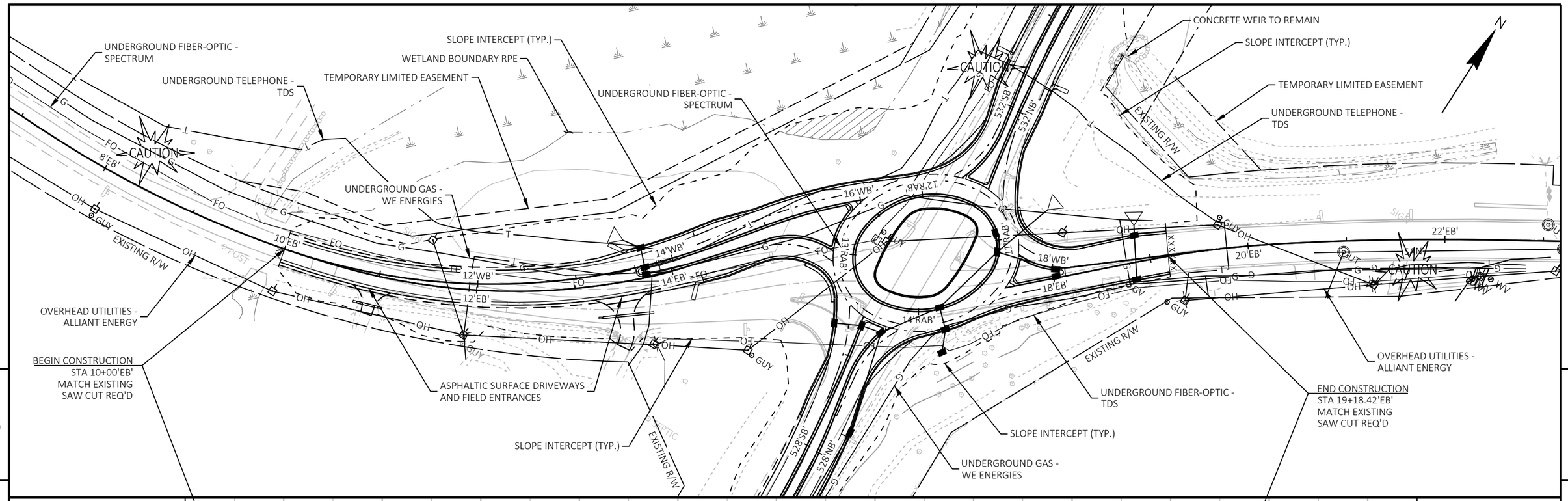
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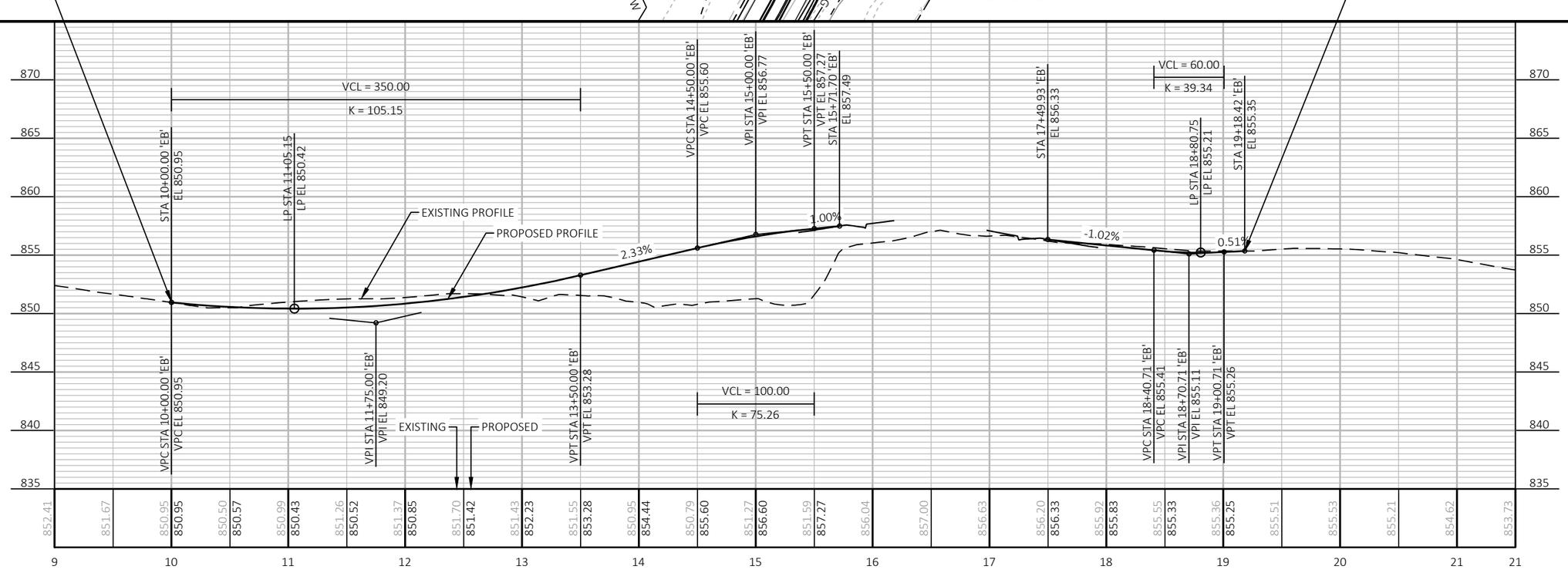
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LAYOUT NAME - 050101-pp

PLOT DATE : 7/8/2025 1:57 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

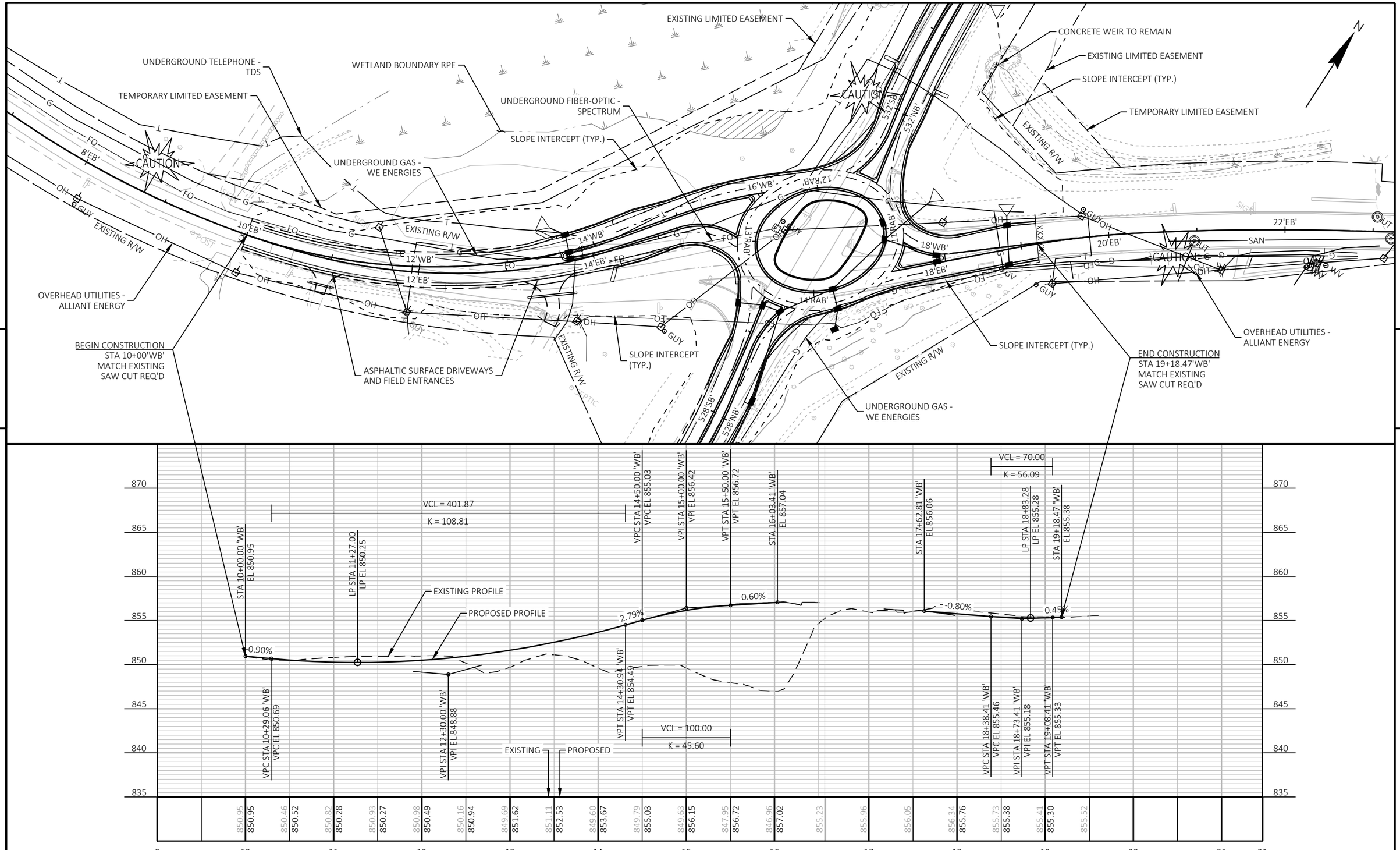


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN AND PROFILE: STH 69 SB	SHEET 156	E





PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN AND PROFILE: EB CTH C	SHEET 157	E

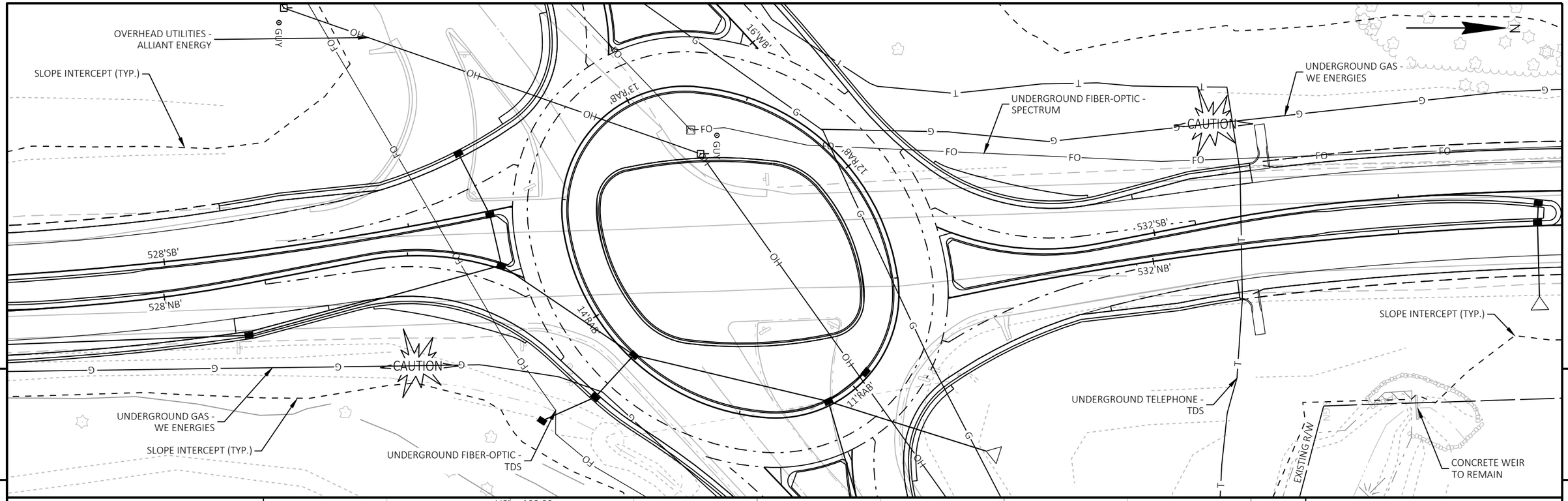


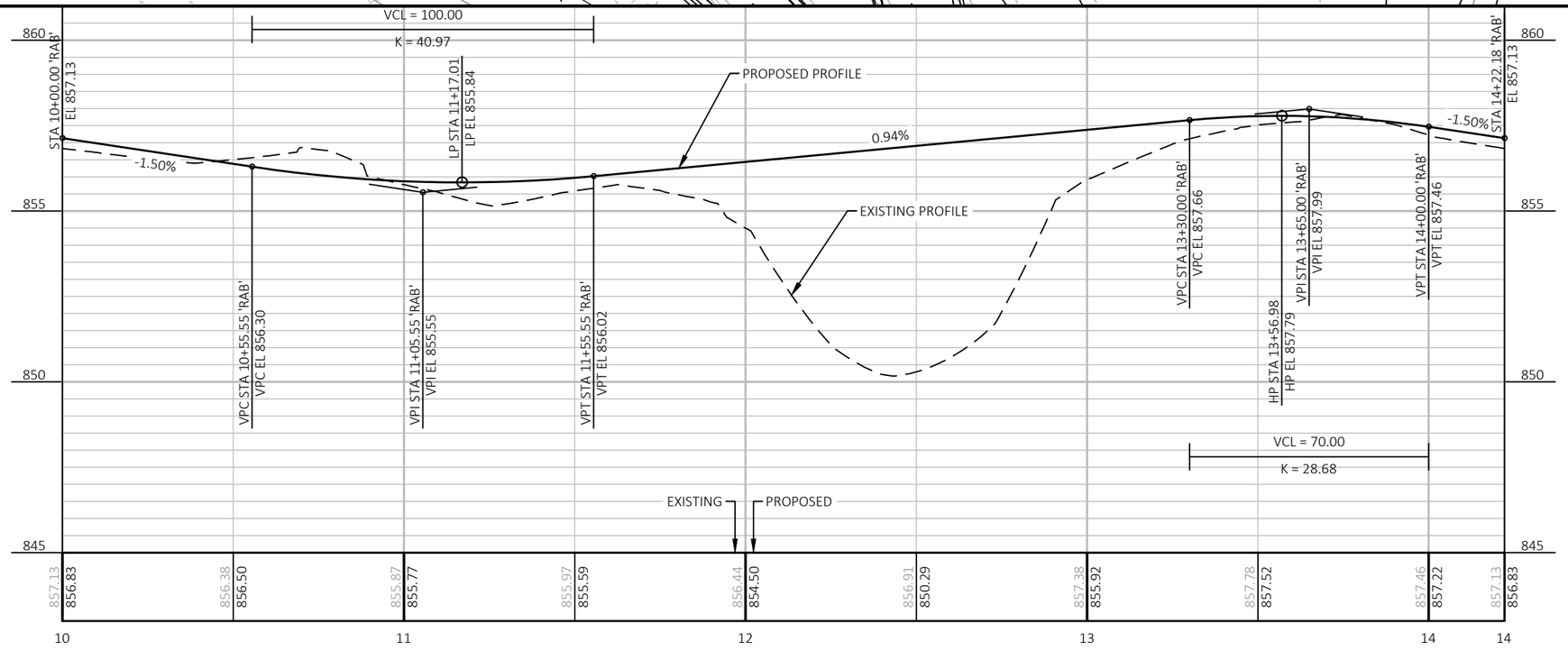
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LAYOUT NAME - 050104-pp

PLOT DATE : 7/8/2025 1:57 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN AND PROFILE: ROUNDABOUT	SHEET 159	E

VILLAGE OF MONTICELLO

STEVEN L. STENBROTEN

N

EXISTING R/W

WE ENERGIES - GAS

SPECTRUM - COMM

ATC - ELEC

SPECTRUM - COMM

SLOPE INTERCEPT

SLOPE INTERCEPT

CAUTION

CAUTION

STH 69

540 541 542 543 544 545 546

STH 69

ATC - ELEC
(ALLIANT ENERGY ON PPOL)

STRUCTURE
B-23-0023

W. BR. LITTLE SUGAR RIVER

SLOPE INTERCEPT

SLOPE INTERCEPT

BEGIN CONSTRUCTION
STA 542+63.50
MATCH EXISTING
SAW CUT REQ'D

END CONSTRUCTION
STA 546+63.00
MATCH EXISTING
SAW CUT REQ'D

CTH F (LAKE AVE)

EXISTING R/W

EXISTING R/W

VILLAGE OF MONTICELLO

850
845
840
835

STA 542+63.50
EL 844.11

STA 543+25.00
EL 844.01

STA 544+31.12
EL 844.33

STA 545+70.00
EL 844.10

STA 546+63.00
EL 844.10

PROPOSED PROFILE

-0.16% 0.30% -0.16% 0.00%

EXISTING PROFILE

EXISTING PROPOSED

844.82 844.58 844.37 844.25 844.20 844.17 844.12 844.06 844.05 843.86 844.08 843.88 844.24 843.92 844.30 844.03 844.22 844.09 844.13 844.12 844.10 844.09 844.10 844.07

539 540 541 542 543 544 545 546 547

PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PLAN AND PROFILE: STH 69	SHEET 160	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_050101-PP.DWG
LAYOUT NAME - STH 69

PLOT DATE : 6/24/2025 2:45 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08A05-22A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-22B	INLET COVERS TYPE B, B-A, C, MS, MS-A, DW & WM
08A05-22C	INLET COVERS TYPE F, HM, HM-S, S, T, HM-GJ & HM-GJ-S
08A05-22D	INLET COVERS TYPE V, V-B, & VV-B
08A05-22E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-03	INLETS 3-FT AND 4-FT DIAMETER
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08C08-03	INLETS MEDIAN 1 AND 2 GRATE
08D01-24A	CONCRETE CURB & GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-08A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-22A	CURB RAMPS TYPES 1 AND 1-A
08D05-22B	CURB RAMPS TYPES 2 AND 3
08D05-22C	CURB RAMPS TYPES 4A AND 4A1
08D05-22D	CURB RAMPS TYPE 4B AND 4B1
08D05-22E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-22F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-22G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
09B02-10	CONDUIT
09B16-03	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
13A10-03A	SHOULDER RUMBLE STRIPS - ASPHALT
13A10-03B	SHOULDER RUMBLE STRIPS - CONCRETE
13A10-03C	SHOULDER RUMBLE STRIPS - ASPHALT SINUSOIDAL
13A10-03D	SHOULDER RUMBLE STRIPS - CONCRETE SINUSOIDAL
13A10-03E	EDGE LINE RUMBLE STRIPS - ASPHALT
13A10-03F	EDGE LINE RUMBLE STRIPS - CONCRETE
13A10-03G	SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS
13A10-03H	SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES
13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13A11-04B	CENTERLINE RUMBLE STRIPS - CONCRETE
13A11-04C	CENTERLINE RUMBLE STRIPS - ASPHALT SINUSOIDAL
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13B02-09B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-14A	RURAL DOWELED CONCRETE PAVEMENT
13C11-14B	RURAL DOWELED CONCRETE PAVEMENT
13C13-11	URBAN DOWELED CONCRETE PAVEMENT
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-08E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C18-08F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C18-08G	CONCRETE PAVEMENT JOINTING ACCELERATION/DECELERATION LANE
13C19-03	HMA LONGITUDINAL JOINTS

6

Standard Detail Drawing List

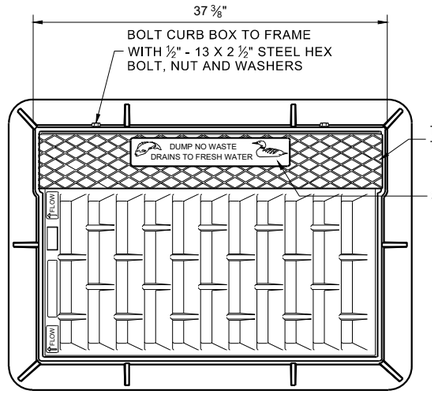
14B07-16A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16J	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16K	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16L	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16M	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16N	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B29-01	SAFETY EDGE
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B53-03A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09D	ON RAMP LANE CLOSURE
15C02-09E	OFF RAMP LANE CLOSURE
15C02-09F	ADVANCED WIDTH RESTRICTION SIGNING
15C02-09G	TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-16A	PAVEMENT MARKING SYMBOLS
15C07-16B	PAVEMENT MARKING WORDS
15C07-16C	PAVEMENT MARKING ARROWS
15C07-16D	ROUNDABOUT ARROWS
15C07-16E	PAVEMENT MARKING FOR BIKE LANES
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24B	TEMPORARY LONGITUDINAL PAVEMENT MARKING

6

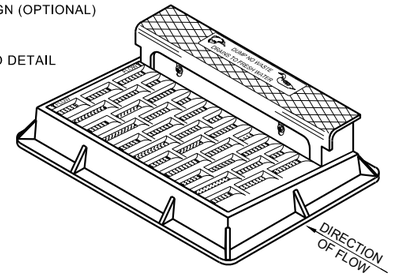
Standard Detail Drawing List

15C08-24C	PAVEMENT MARKING (TURN LANES)
15C08-24D	PAVEMENT MARKING (TURN LANES)
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-09A	MEDIAN ISLAND PAVEMENT MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-10A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-10B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-10C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C22-01	DOTTED EXTENSION FOR ROUNDABOUT
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15C35-06B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-06C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-11A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D39-03	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-06A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY/EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-06B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND OVER
15D40-06C	TRAFFIC CONTROL, PARTIAL LANE SHIFT NON-FREEWAY/EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-06D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

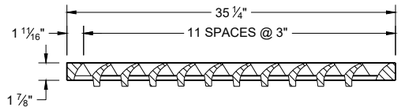
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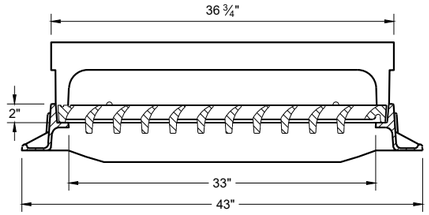


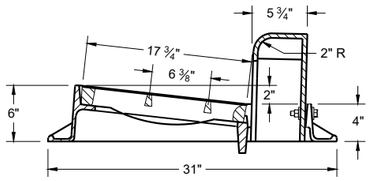
NOTE: EITHER CASTING IS ACCEPTABLE

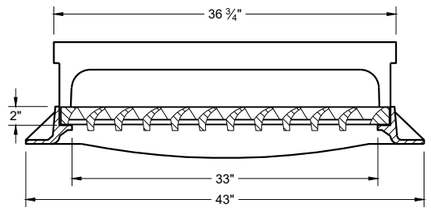


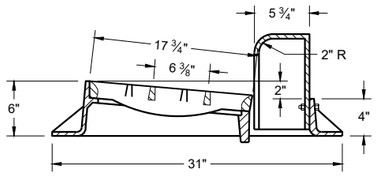
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"







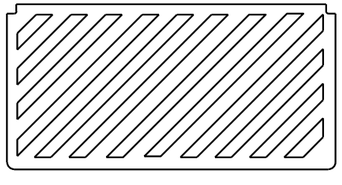




TYPE "H"

NOTE: EITHER CASTING IS ACCEPTABLE

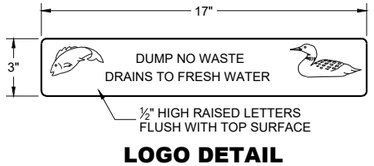
1 1/8" DIAGONAL BARS WITH 1 5/8" OPENINGS



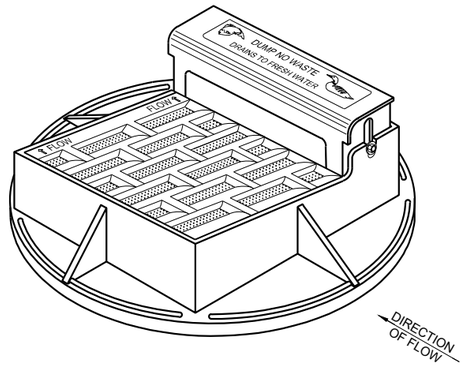
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

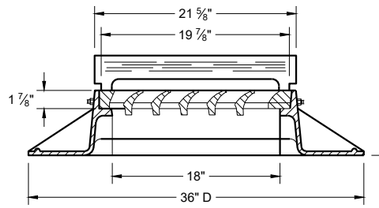


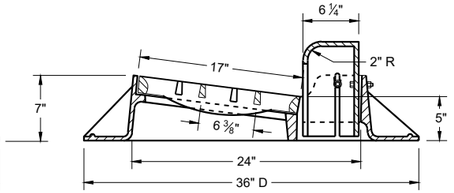
LOGO DETAIL



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

NOTE: EITHER CASTING IS ACCEPTABLE





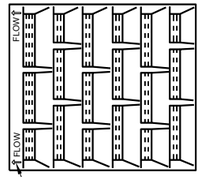
TYPE "A"

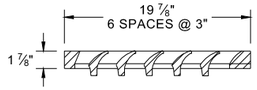
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

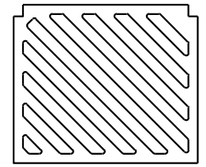
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.





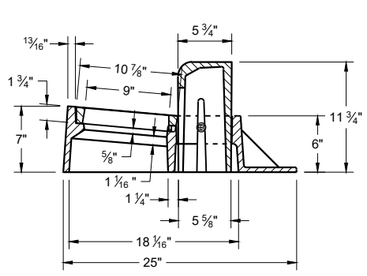
1" DIAGONAL BARS WITH 1 1/2" OPENINGS



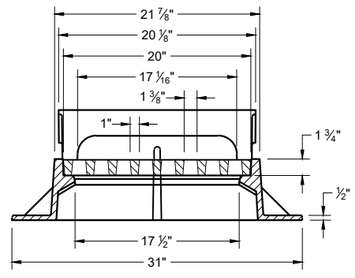
SPECIAL GRATE FOR TYPE "A" COVER

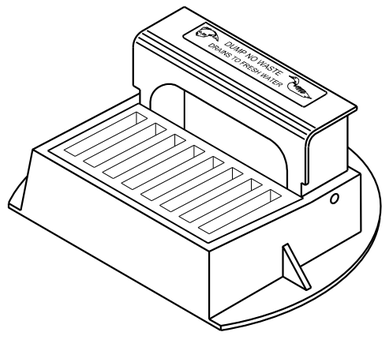
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "Z"





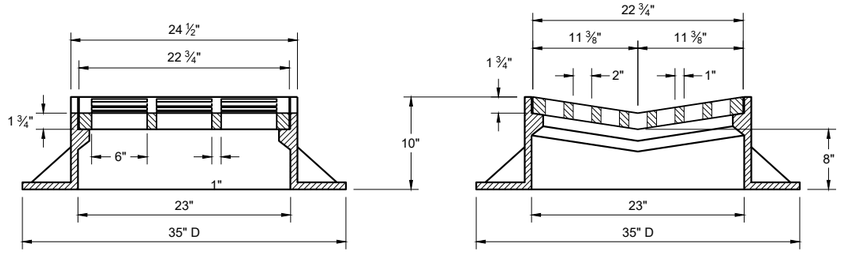
INLET COVERS
TYPES A, H, A-S, H-S AND Z

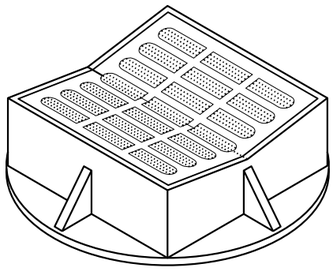
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE

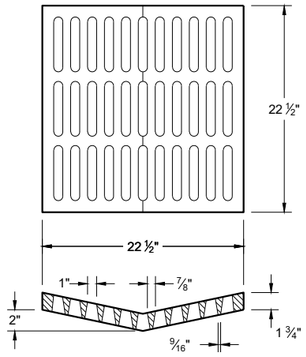
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA





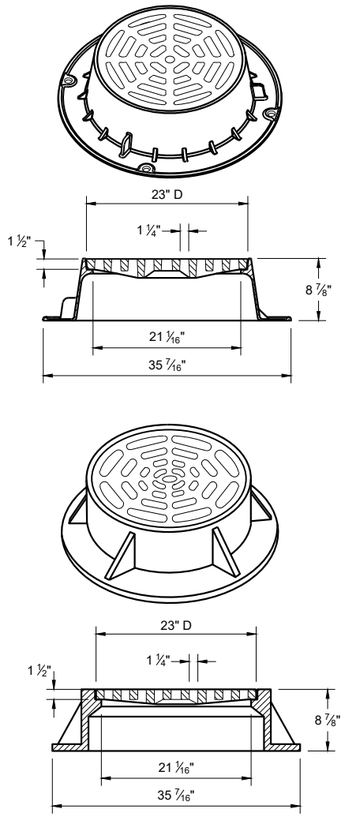
TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS POSSIBLE

NOTED AS TYPE B - A ON THE DRAINAGE TABLE



TYPE "C"

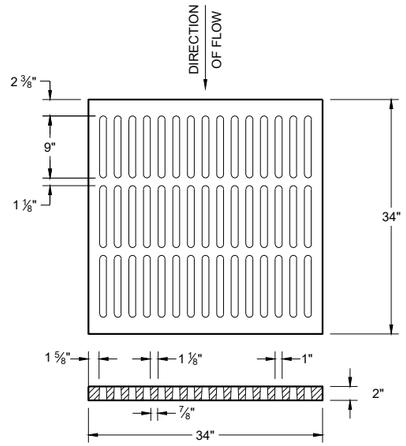
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

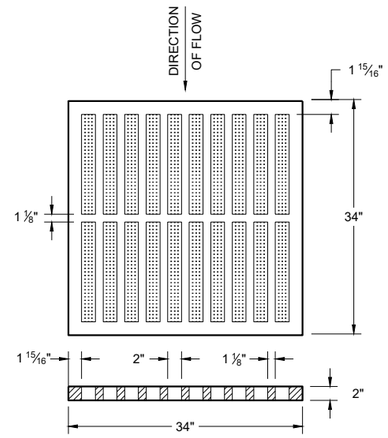
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

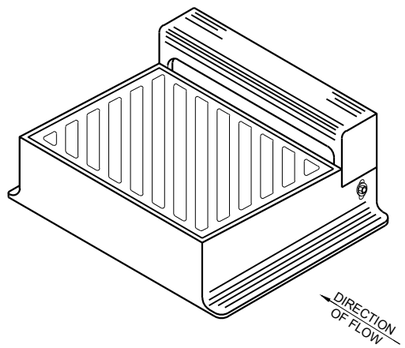
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



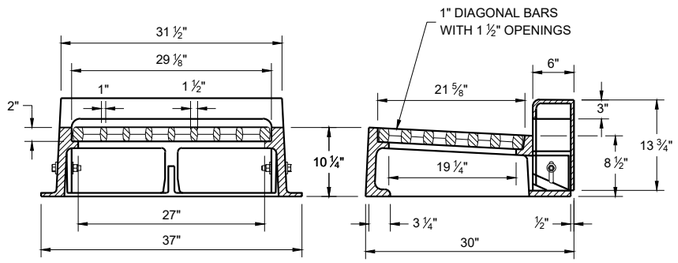
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON THE DRAINAGE TABLE

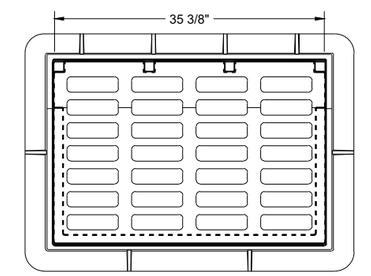


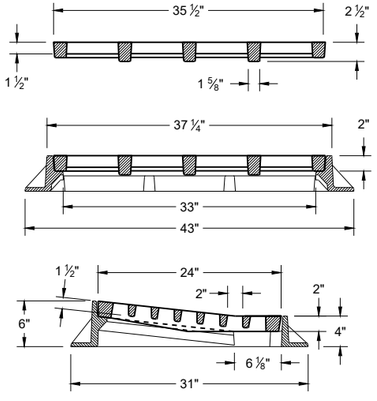
DIAGONAL SLOTS SHALL BE ORIENTEDTO THE DIRECTION OF FLOW AS ILLUSTRATED.
GRATES ARE MANUFACTURED TO BE REVERSIBLE.



TYPE "WM"

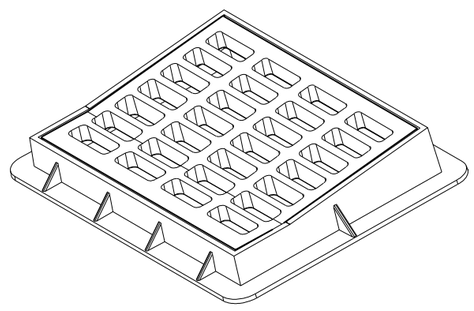
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

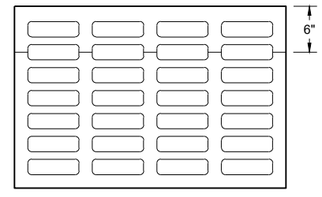




TYPE "DW"

NOTES: FOR USE IN A SUMP CONDITION. THIS OPTION IS ONLY TO BE USED IF NO OTHER INLETS ARE APPLICABLE.





INLET COVERS
TYPES B, B-A, C,
MS, MS-A ,DW AND WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

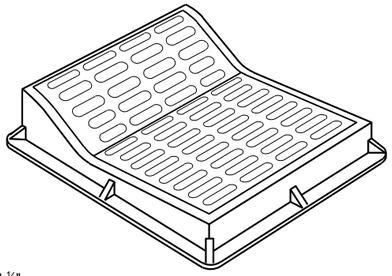
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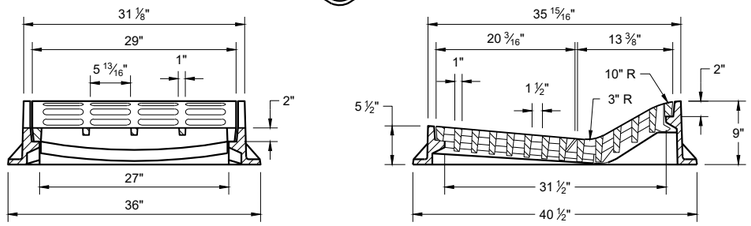
SDD 08A05-22b

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

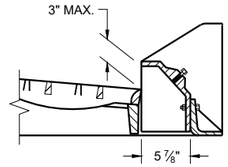
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





TYPE "F"

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"

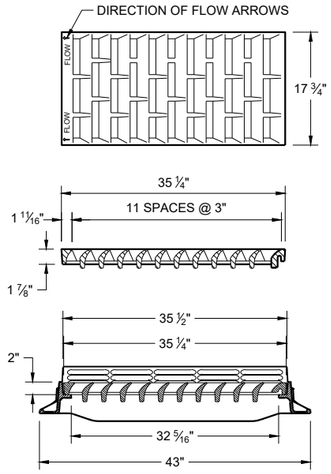


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES "G" AND "J" CONCRETE CURB AND GUTTER, 30 INCH
NOTED AS TYP "HM-GJ" ON DRAINAGE TABLE

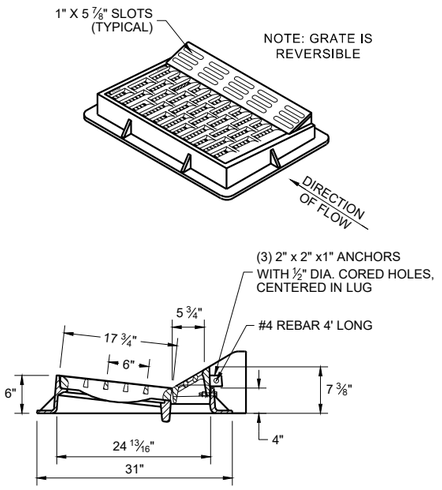
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.



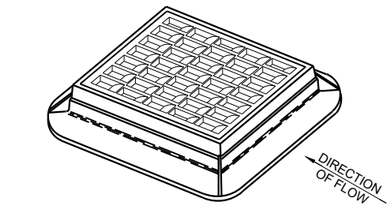
TYPE "HM"

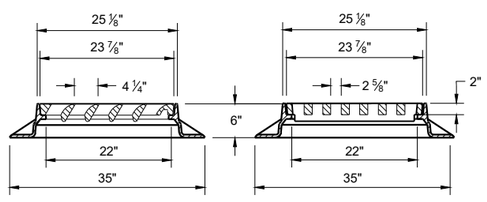
USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"



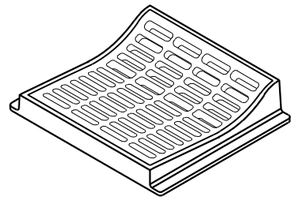
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

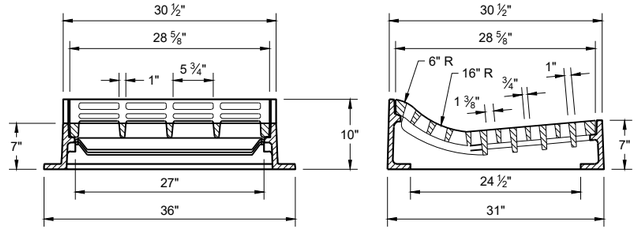
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.





TYPE "S"





TYPE "T"

USE WITH TYPES "R" AND "T" CONCRETE CURB AND GUTTER, 36"

INLET COVERS
TYPES F, HM, HM-S, S, T, HM-GJ AND HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

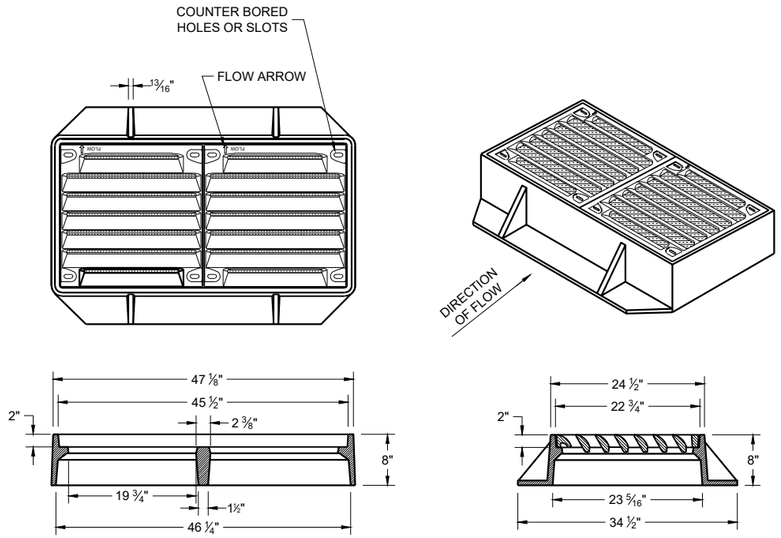
FHWA

6
SDD 08A05-22c

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

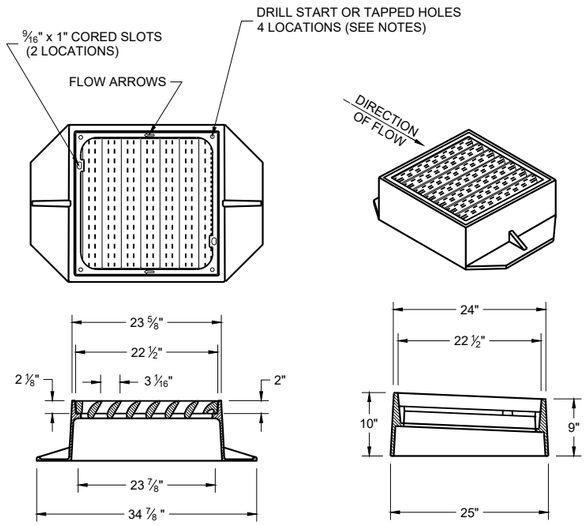
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



TYPE "VV-B"

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER
ALL DRILLING AND TAPPING GRATES AND FRAMES BY CASTING MANUFACTURER

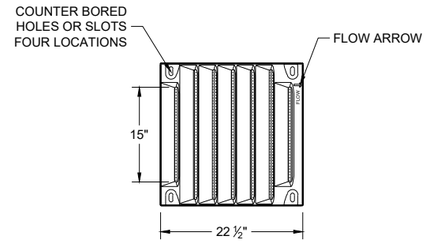
TYPE V
FRAME - CAST GRAY IRON ASTM A48 CLASS 35B
⅜" DIA. X 1/16" DRILL START IN 8 LOCATIONS
GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



TYPE "V"

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER ALL DRILLING AND TAPPING GRATES AND FRAMES BY CASTING MANUFACTURER

TYPE V
FRAME - CAST GRAY IRON ASTM A48 CLASS 40A
⅜" DIA. X 1/16" DRILL START IN 4 LOCATIONS
GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



BOLT DOWN GRATE FOR TYPE "V" AND "VV-B" COVER

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER NOTED AS TYPE "V-B" OR "VV-B" (FOR DOUBLE GRATE) ON DRAINAGE TABLE

TAP ½" -13 HOLES IN FOUR LOCATIONS PER GRATE IN FRAME TO BOLT GRATE(S).
FRAME - CAST GRAY IRON ASTM A48 CLASS 40A

GRATE - CAST DUCTILE IRON ASTM A536, 55+KSI YIELD
BOLTS - ½" -13 STAINLESS STEEL BOLTS WITH WASHERS
TORQUE BOLTS TO MANUFACTURER SPECIFICATION DO NOT OVERTIGHTEN.

INLET COVERS
TYPES V, V-B, AND VV-B

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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February 2025 — DATE
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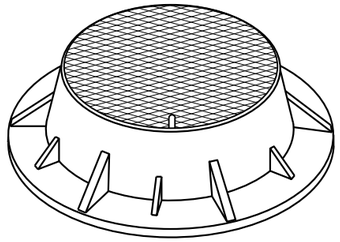
6
SDD 08A05-22d

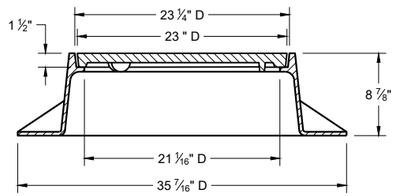
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

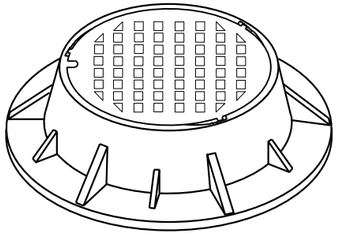
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

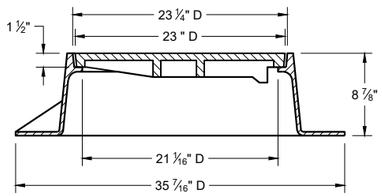




TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

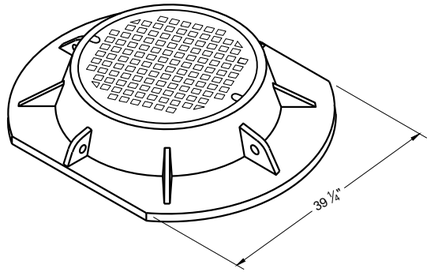


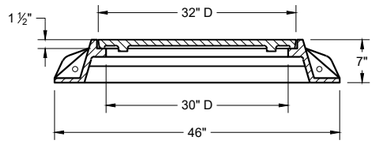


TYPE "J" SPECIAL

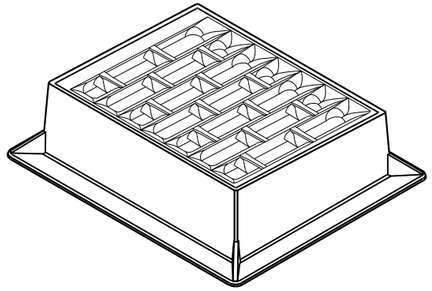
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

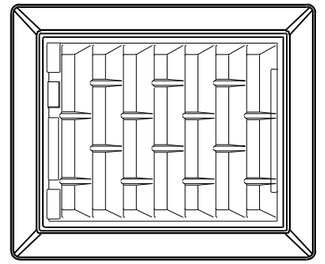
NOTE: EITHER CASTING IS ACCEPTABLE

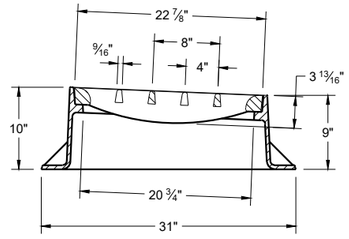


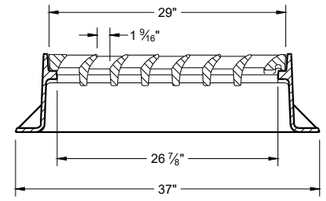


TYPE "K"

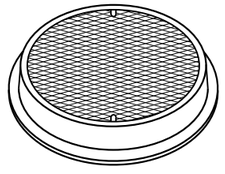


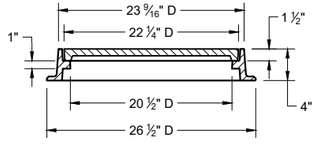




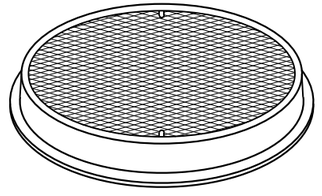


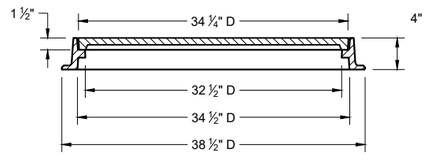
INLET COVER TYPE "BW"





TYPE "L"





TYPE "M"

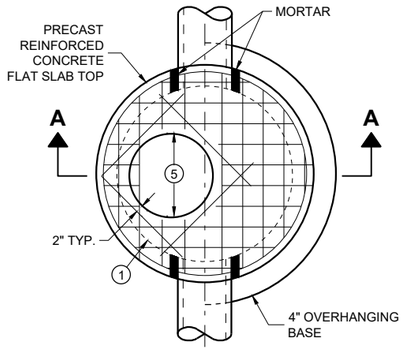
INLET COVERS TYPES BW
MANHOLE COVERS TYPES K, J, J-S, L, AND M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
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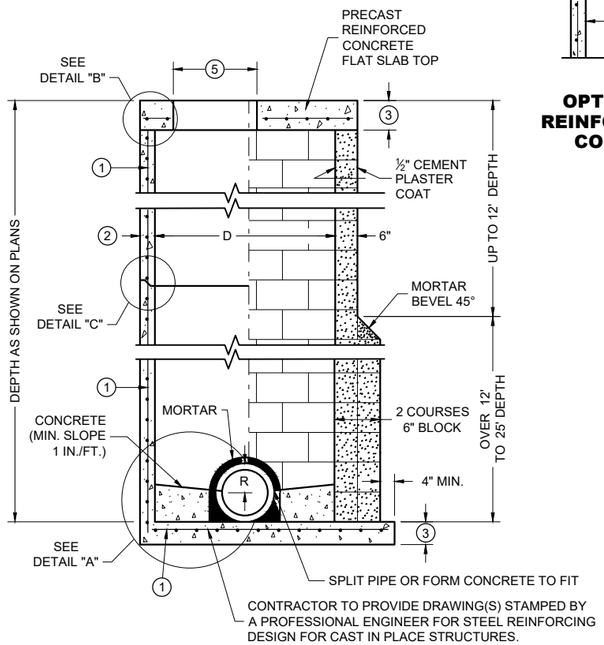
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PLAN VIEW

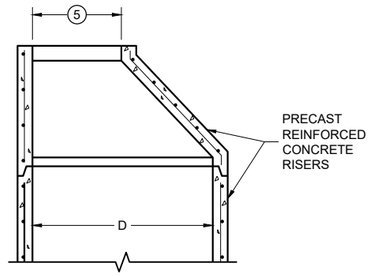
CIRCULAR OPENING



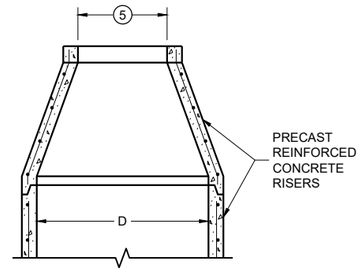
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

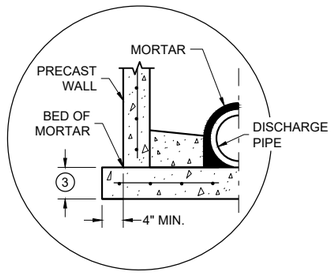
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



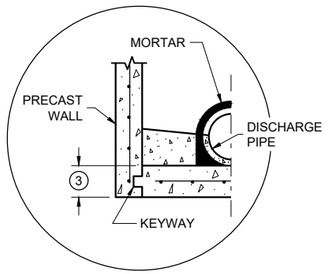
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

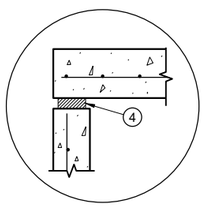


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

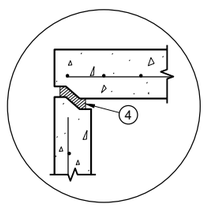


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

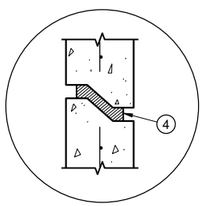
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

DETAIL "C"

MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) (5) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42 *	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL IMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

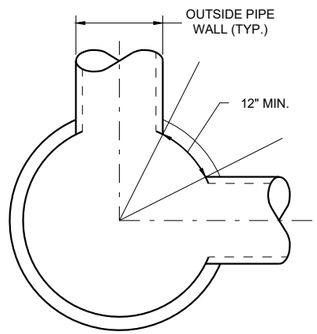
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

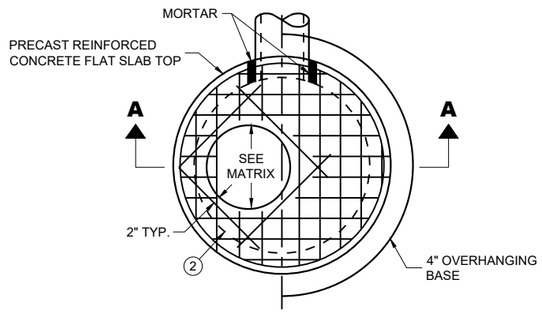
MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

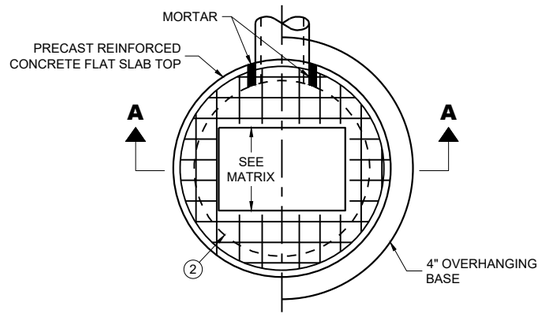
APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

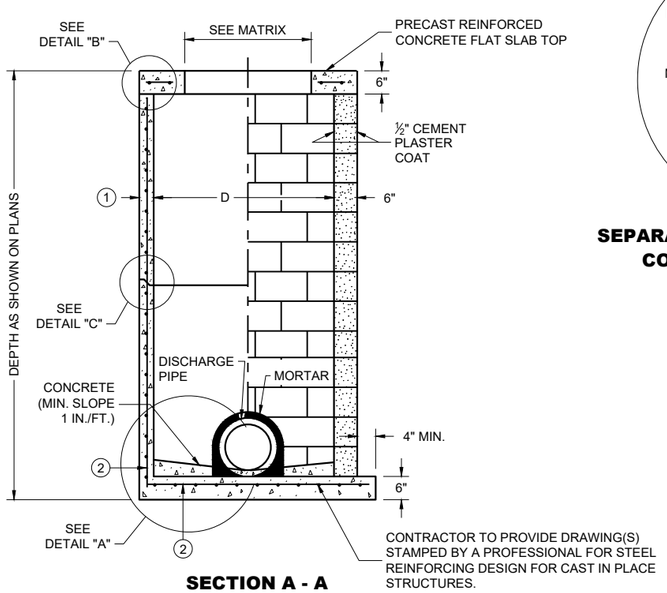
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER



PLAN VIEW CIRCULAR OPENING



PLAN VIEW RECTANGULAR OPENING



SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (2)

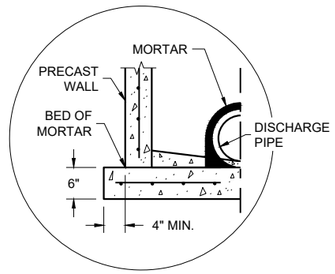
CIRCULAR INLETS WITH FLAT TOP

CATCH BASIN COVER OPENING MATRIX

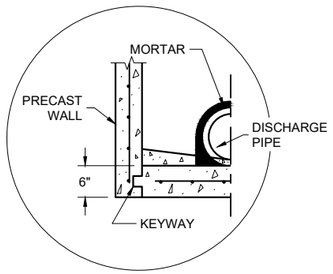
INLET SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT.)											
3-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
4-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
	2 X 2.5			X				X	X	X	X	
	2 X 3						X					
	2.5 X 3					X						

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

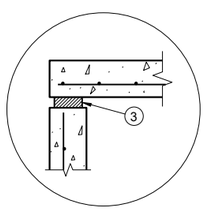


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

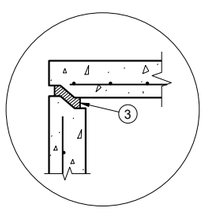


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

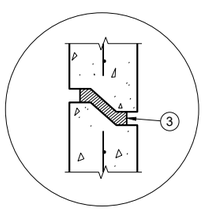
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **DETAIL "C"**

INLETS 3-FT AND 4-FT DIAMETER

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

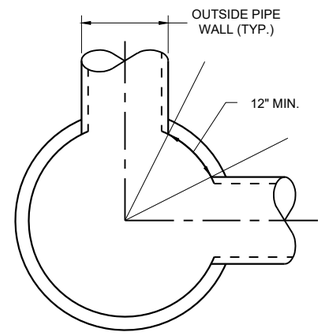
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

(1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT DIAMETER AND 5 INCHES FOR 4-FT DIAMTER PRECAST INLETS.

(2) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(3) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

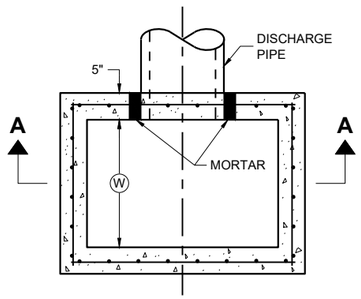
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

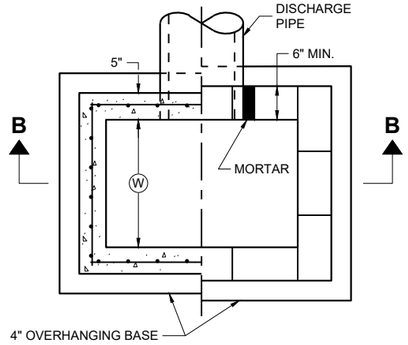
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FHWA

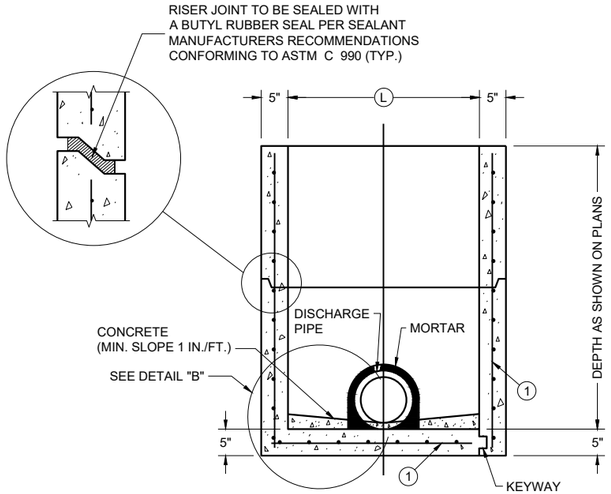
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PLAN VIEW



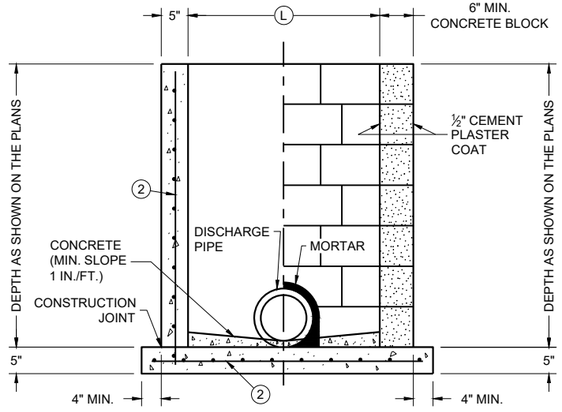
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

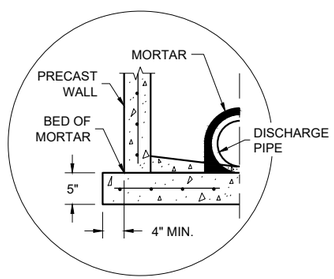
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

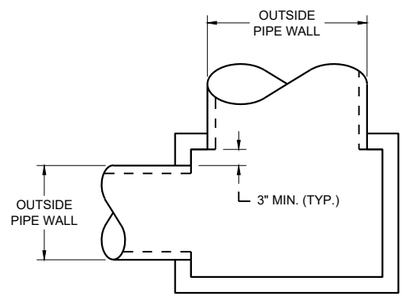
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

SECTION B - B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913
(2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

CATCH BASIN COVER MATRIX

INLET SIZE	WIDTH (W) (FT.)	LENGTH (L) (FT.)	INLET COVER TYPE									
			ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM	V V-B
2 X 2-FT	2	2	X	X				X				
2 X 2.5-FT	2	2.5			X			X	X	X	X	
2 X 3-FT	2	3					X					
2.5 X 3-FT	2.5	3				X						
2 X 3.5-FT	2	3.5										X

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2 X 2-FT	12	12
2 X 2.5-FT	12	18
2 X 3-FT	12	24
2.5 X 3-FT	18	24
2 X 3.5-FT	12	30

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

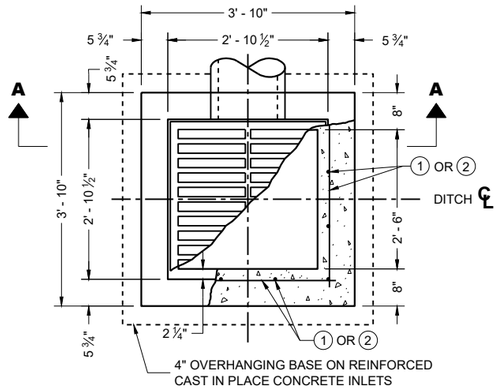
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DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023
DATE

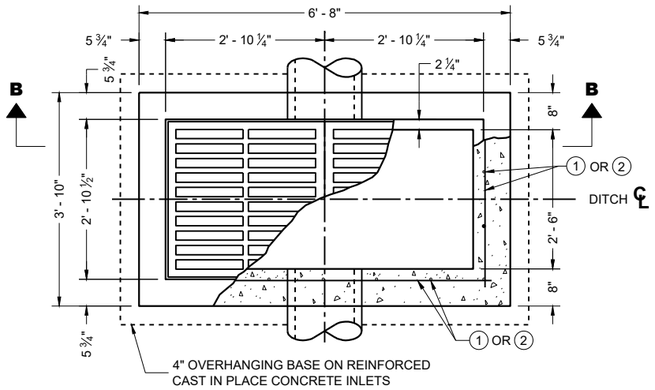
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

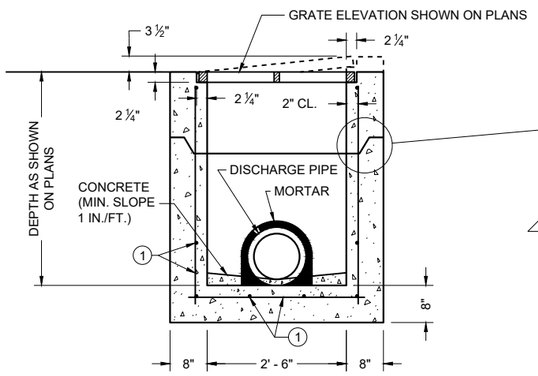
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SDD 08C07-03



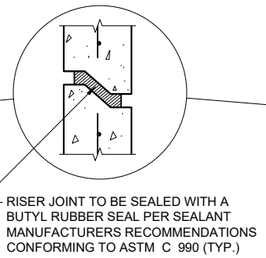
PLAN VIEW

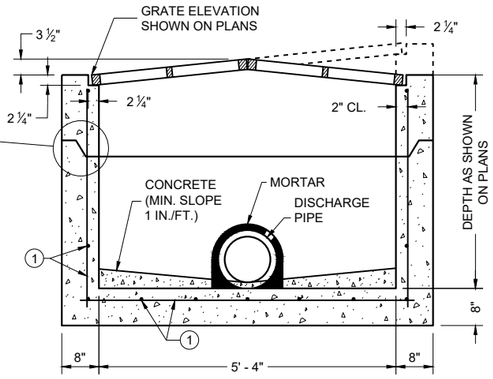


PLAN VIEW

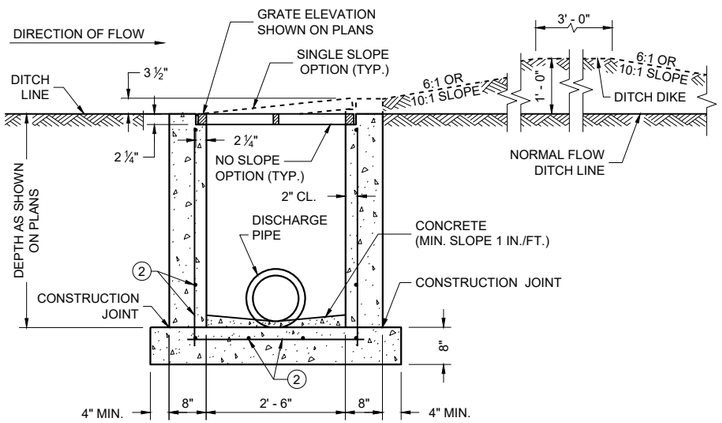


PRECAST REINFORCED CONCRETE SECTION A - A



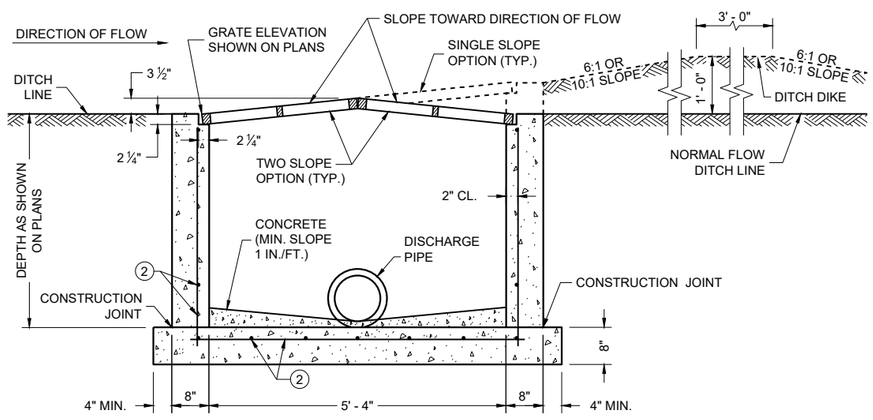


PRECAST REINFORCED CONCRETE SECTION B - B



REINFORCED CAST IN PLACE CONCRETE SECTION A - A

INLETS MEDIAN 1 GRATE



REINFORCED CAST IN PLACE CONCRETE SECTION B - B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

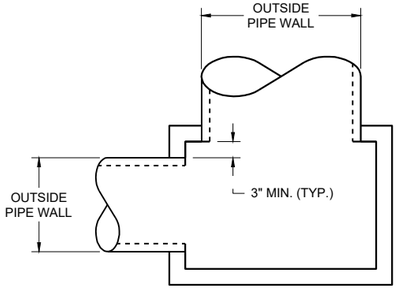
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

(2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.



DETAIL "A"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42

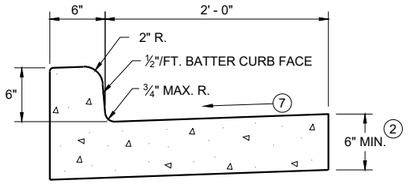
INLETS
MEDIAN 1 AND 2 GRATE

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DEPARTMENT OF TRANSPORTATION

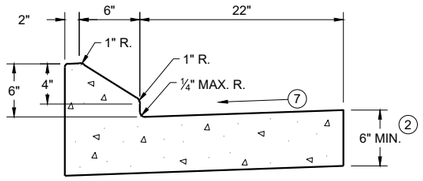
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FHWA

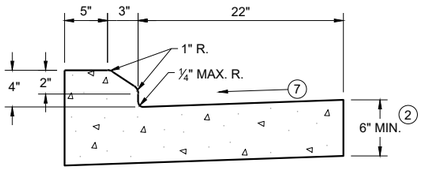
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SDD 08C08-03



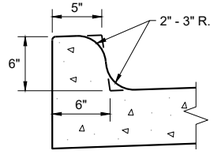
TYPES A (1) & D



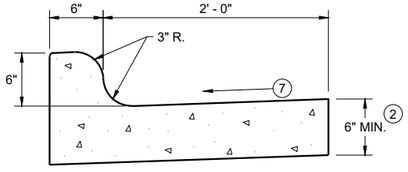
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

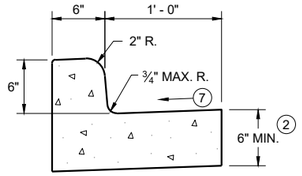


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



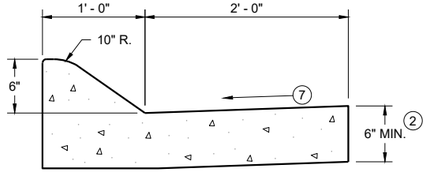
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

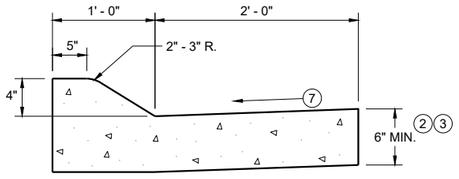


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

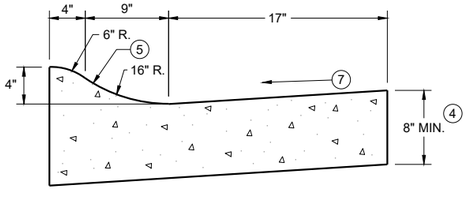


6" SLOPED CURB TYPES A (1) & D



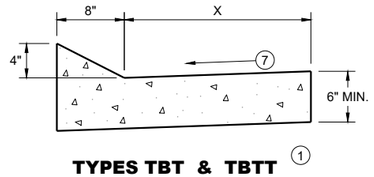
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T
CONCRETE CURB AND GUTTER 30"

TBT & TBTT	X
30"	22"
36"	28"

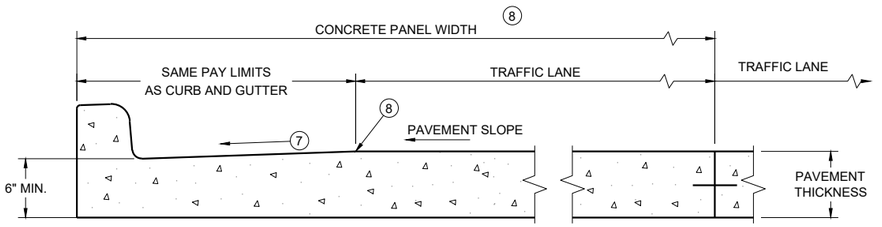


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

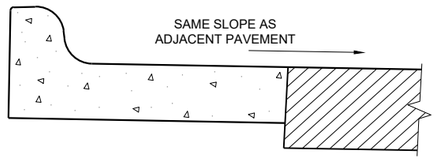
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER *

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

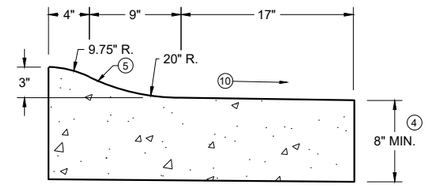
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

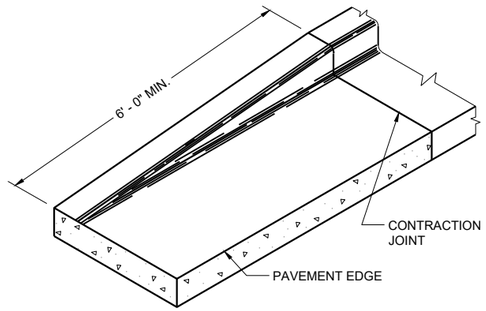
(9) SLOPE TO BE REVERSE SLOPE MATCHING THE SLOPE OF THE PAVEMENT AND THE CIRCULATORY ROADWAY



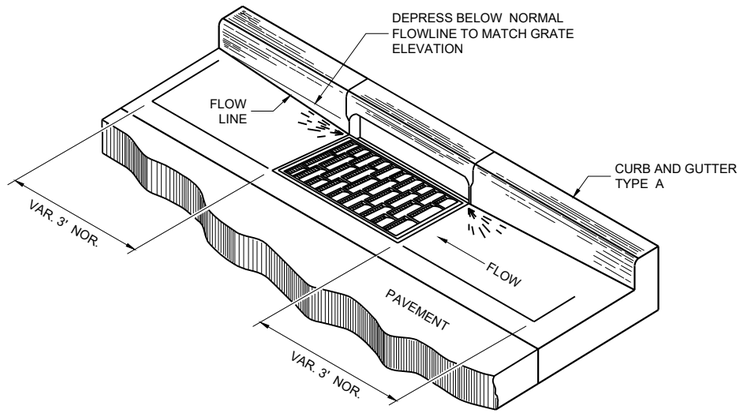
3" SLOPED CURB TYPES R (1) & T

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

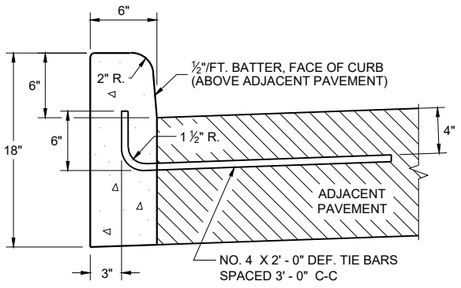
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

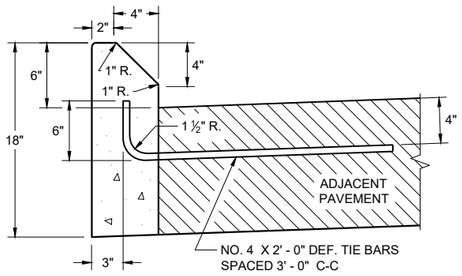
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

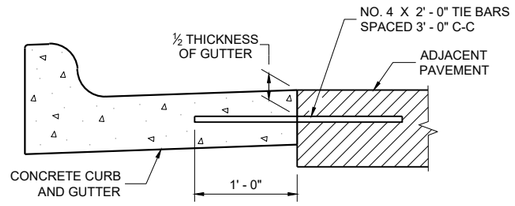


TYPES A (1) & D

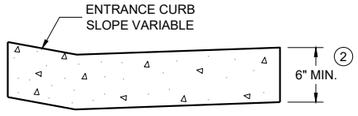


TYPES G (1) & J

CONCRETE CURB

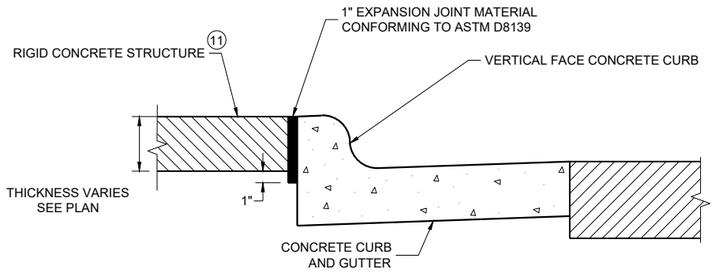


TYPICAL TIE BAR LOCATION (1)

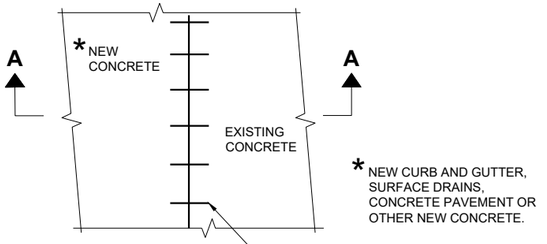


DRIVEWAY ENTRANCE CURB (10)

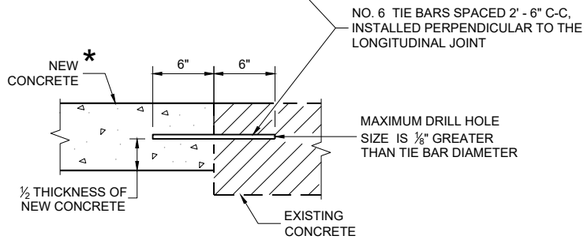
(WHEN DIRECTED BY THE ENGINEER)



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6
SDD 08D01-24b

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

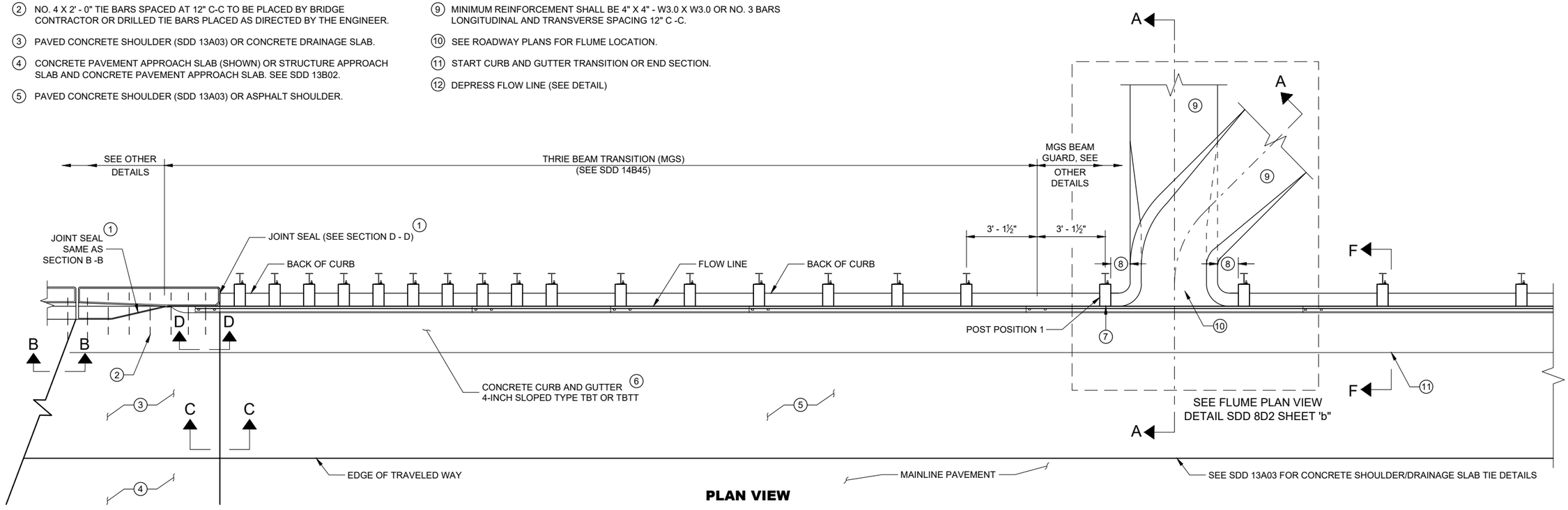
(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

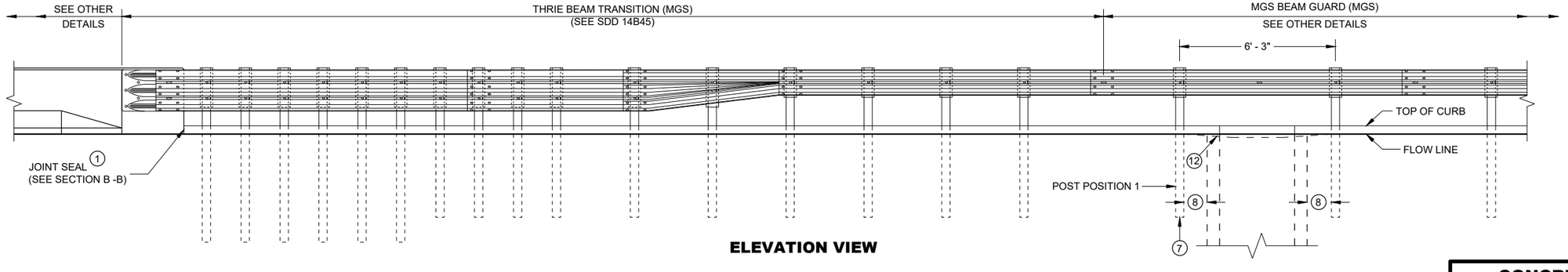
(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)



PLAN VIEW



ELEVATION VIEW

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

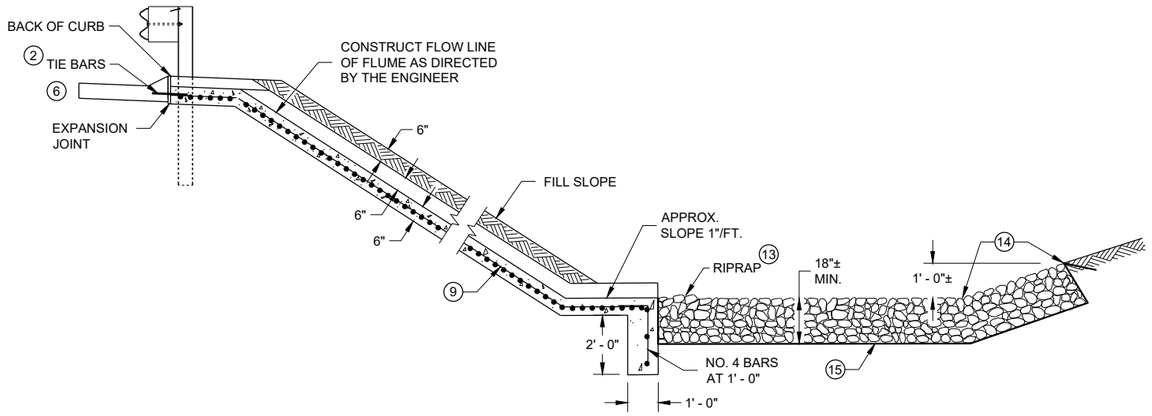
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

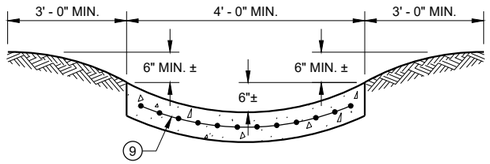
SDD 08D02 - 08a

6

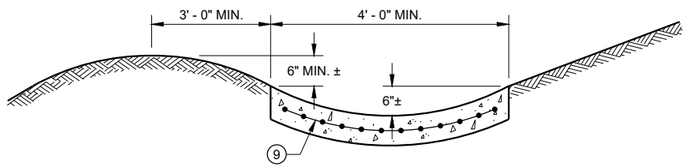
SDD 08D02 - 08a



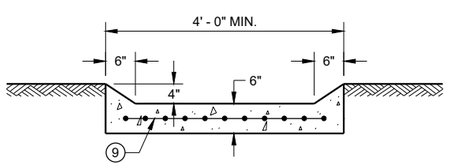
SECTION A - A



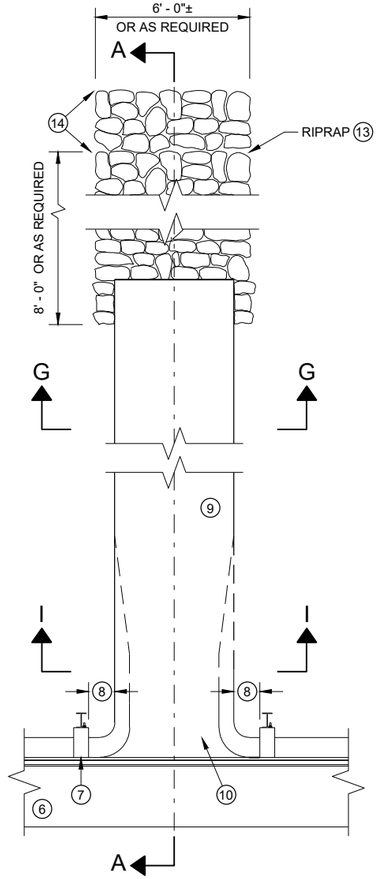
SECTION G - G



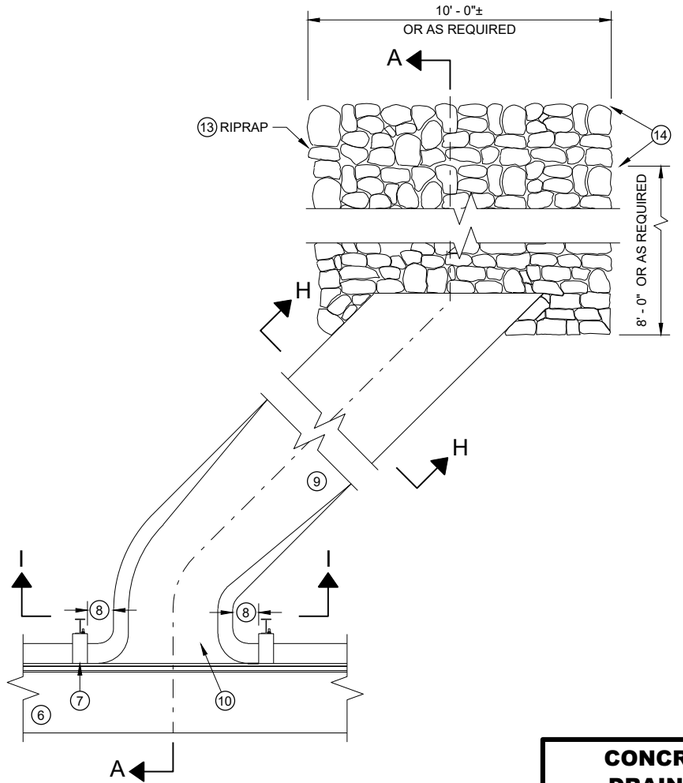
SECTION H - H



SECTION I - I



PLAN VIEW PERPENDICULAR FLUME



PLAN VIEW SKEWED FLUME

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

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(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH AS REQUIRED.

(15) GEOTEXTILE TYPE HR.

6

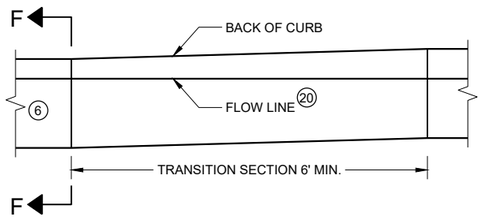
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SDD 08D02 - 08b

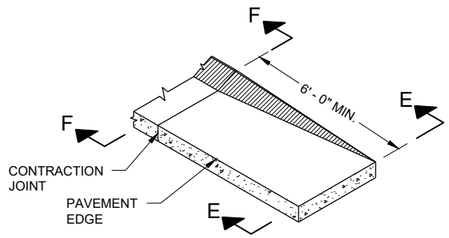
SDD 08D02 - 08b

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

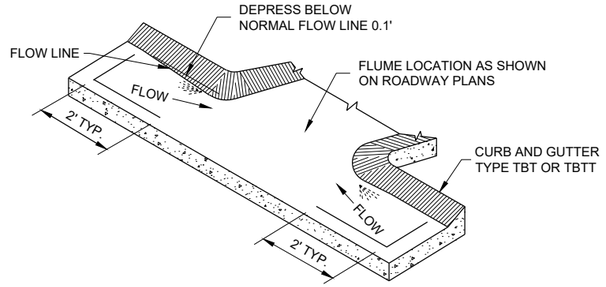
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA



**CURB AND GUTTER TRANSITION SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT**



**CURB AND GUTTER END SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT**



**CURB AND GUTTER FLOW LINE DEPRESSION
AT FLUMES CONCRETE CURB AND GUTTER
4-INCH SLOPED 36 INCH TYPE TBT OR TBTT**

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

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(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(15) GEOTEXTILE TYPE HR.

(16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

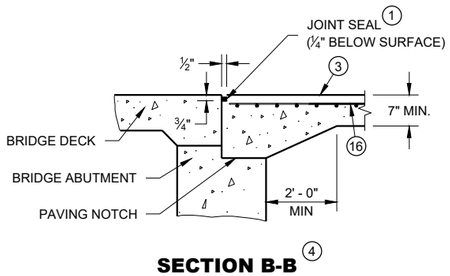
(17) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

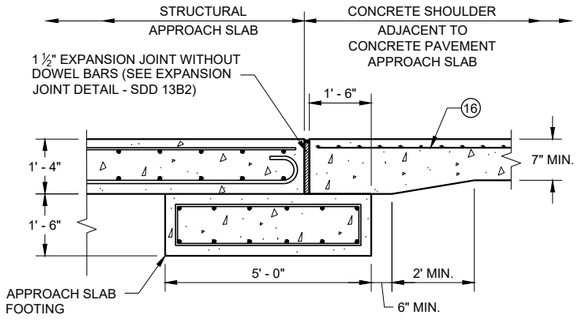
(19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

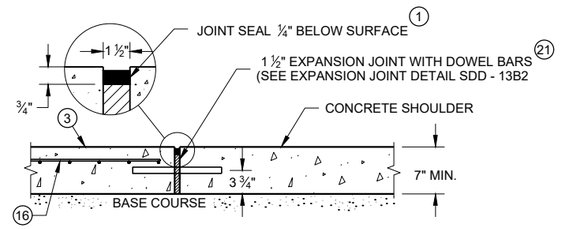
(21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



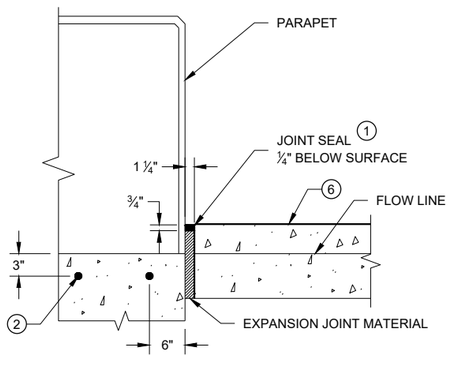
SECTION B-B



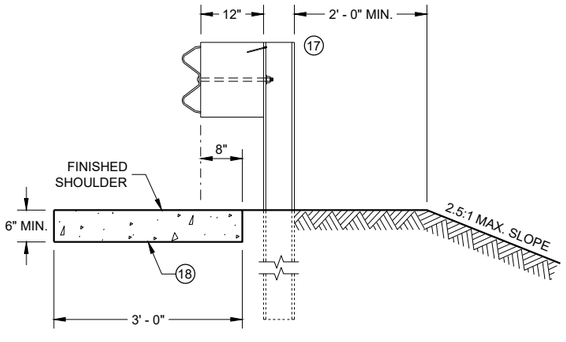
SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



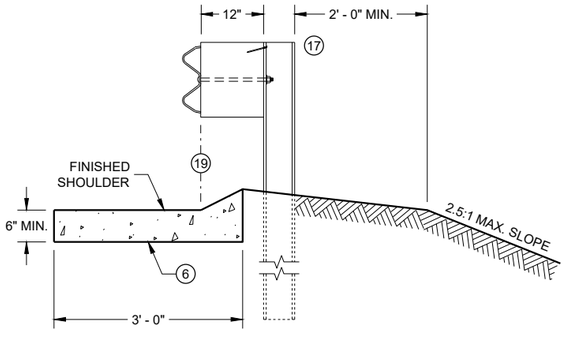
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION D - D



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

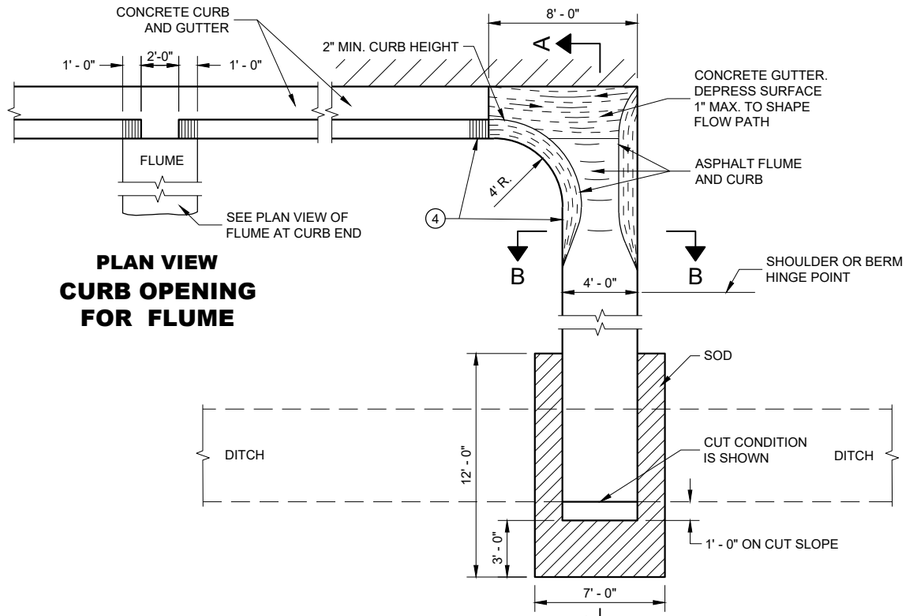
SDD 08D02 - 08c

6

SDD 08D02 - 08c

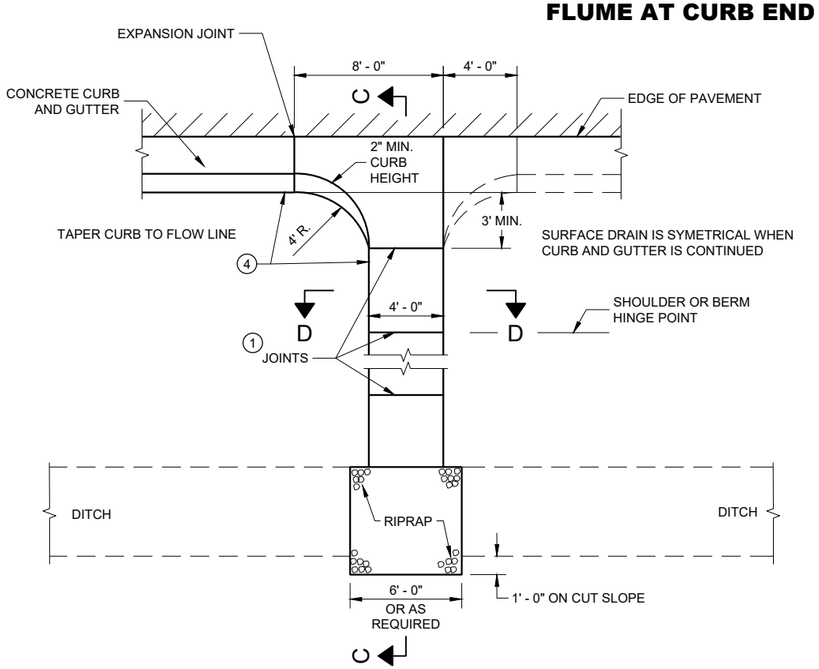
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



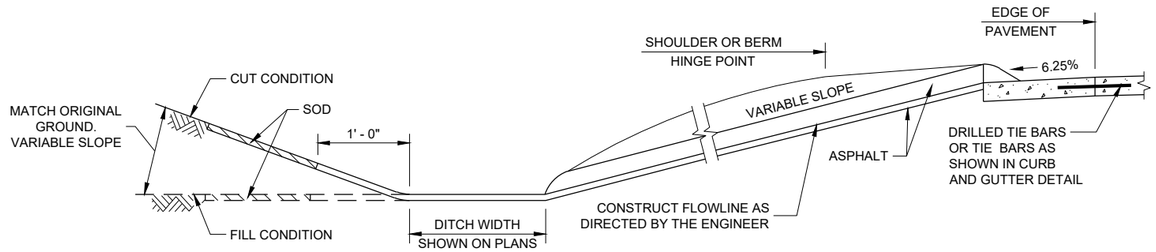
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

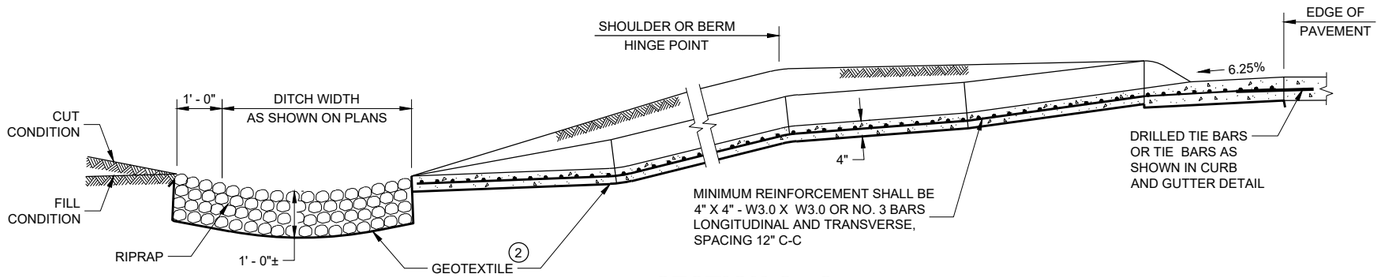
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

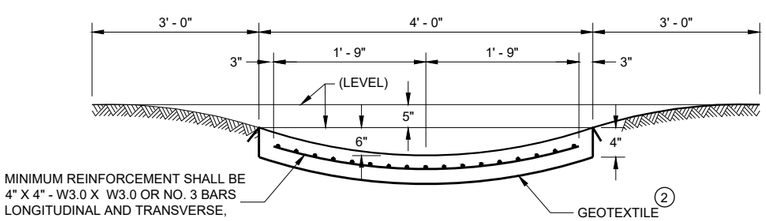


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

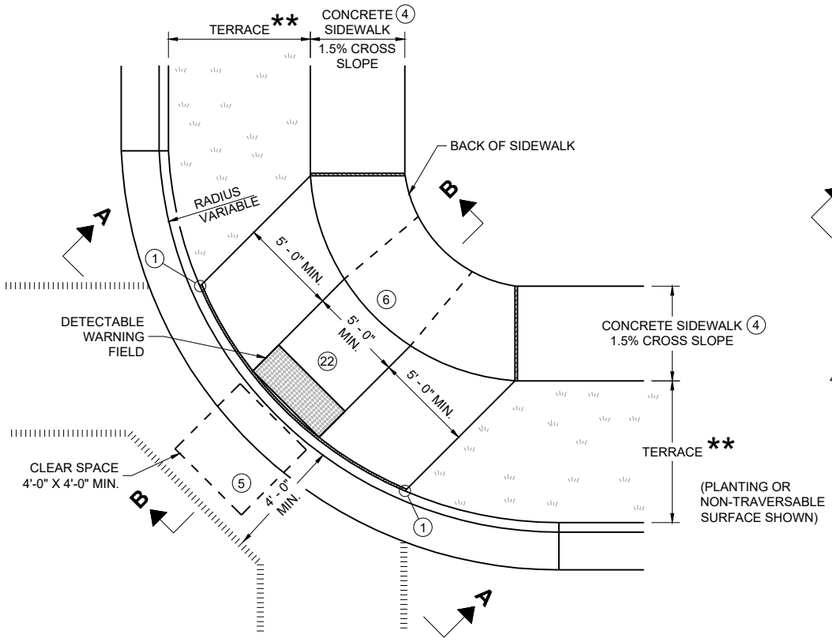
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SDD 08D04 - 07

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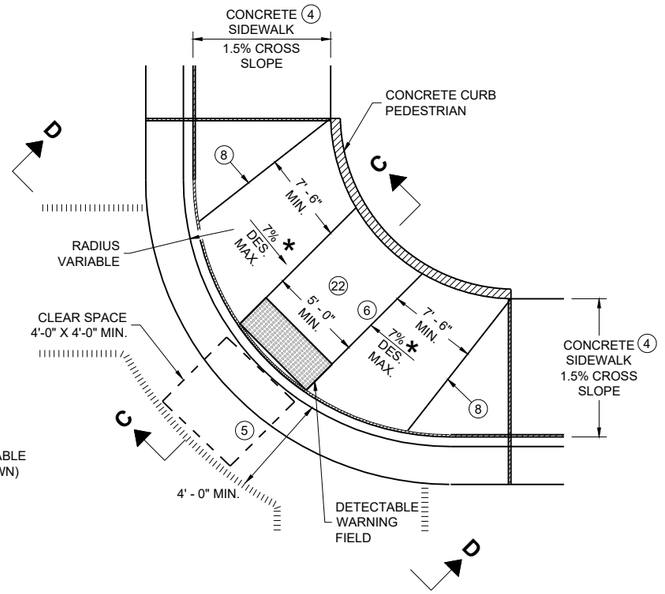
SDD 08D04 - 07



PLAN VIEW

CURB RAMP TYPE 1

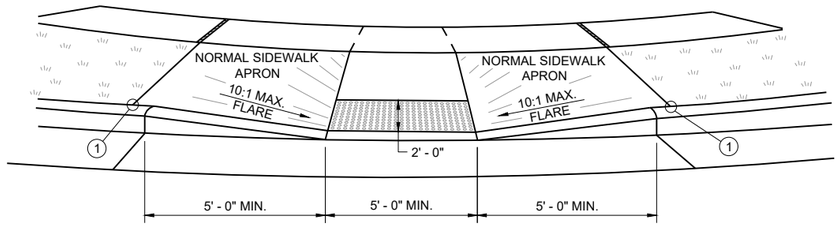
(CENTER OF CORNER RADIUS)



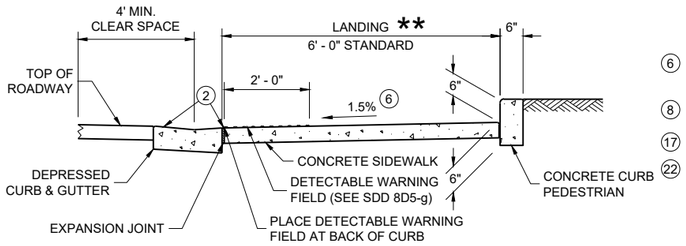
PLAN VIEW

CURB RAMP TYPE 1 - A

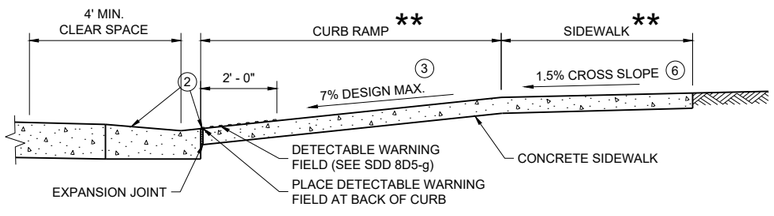
(NO TERRACE)



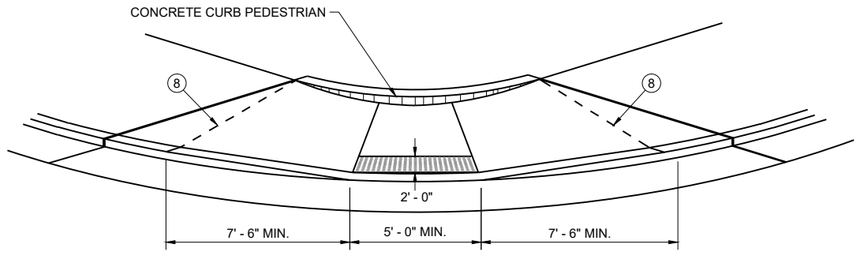
VIEW A - A FOR TYPE 1



SECTION C - C FOR TYPE 1 - A



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE CURB RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF CURB RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE CURB RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A CLEAR SPACE IN THE STREET AND GUTTER AREA. WHEN THE GUTTER CROSS SLOPE EXCEEDS 2.1%, CONSTRUCT THE CLEAR SPACE IN THE STREET AREA AND THE 4 FOOT WIDTH IS MEASURED FROM THE FLANGE LINE. FOR RECONSTRUCTION AND MODERNIZATION PROJECTS THE CLEAR SPACE SLOPE PARALLEL TO THE CURBLINE SHOULD BE 2.1% MAX FOR CROSSINGS THAT ARE STOP AND YIELD CONTROLLED, AND 5% MAX FOR THOSE THAT ARE SIGNAL CONTROLLED. FOR PERPETUATION AND REHABILITATION PROJECTS THE SLOPE OF THE CLEAR SPACE PARALLEL TO THE CURBLINE WILL MATCH THE ROADWAY LONGITUDINAL SLOPE. THE SLOPE OF THE CLEAR SPACE PERPENDICULAR TO THE CURBLINE WILL MATCH THE ROADWAY CROSS SLOPE BUT SHOULD NOT EXCEED 5% UNLESS THE ROADWAY IS SUPERELEVATED (WHEN SUPERELEVATED THE ROADWAY CROSS SLOPE SHOULD MATCH THE SUPERELEVATION).

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

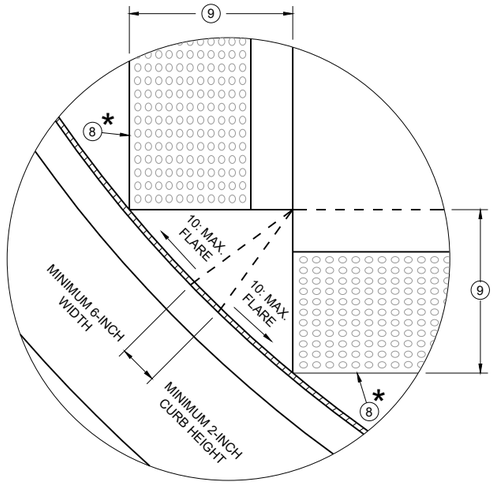
LEGEND

═══	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT FIELD LOCATED
ıı ıı ıı ıı	PAVEMENT MARKING CROSSWALK (WHITE)
*	MAXIMUM 8.3%
**	WIDTH SHOWN ELSEWHERE IN THE PLANS

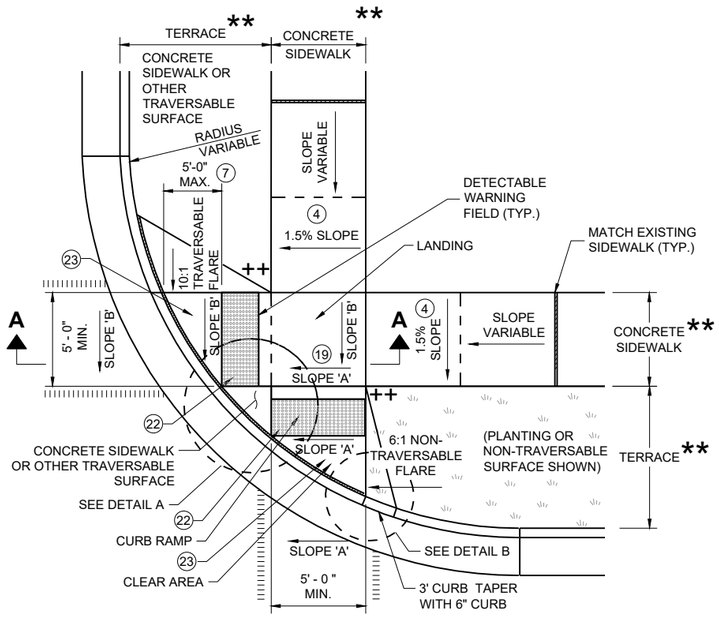
CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05-22a



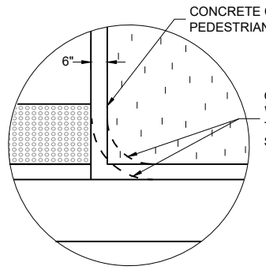
DETAIL A



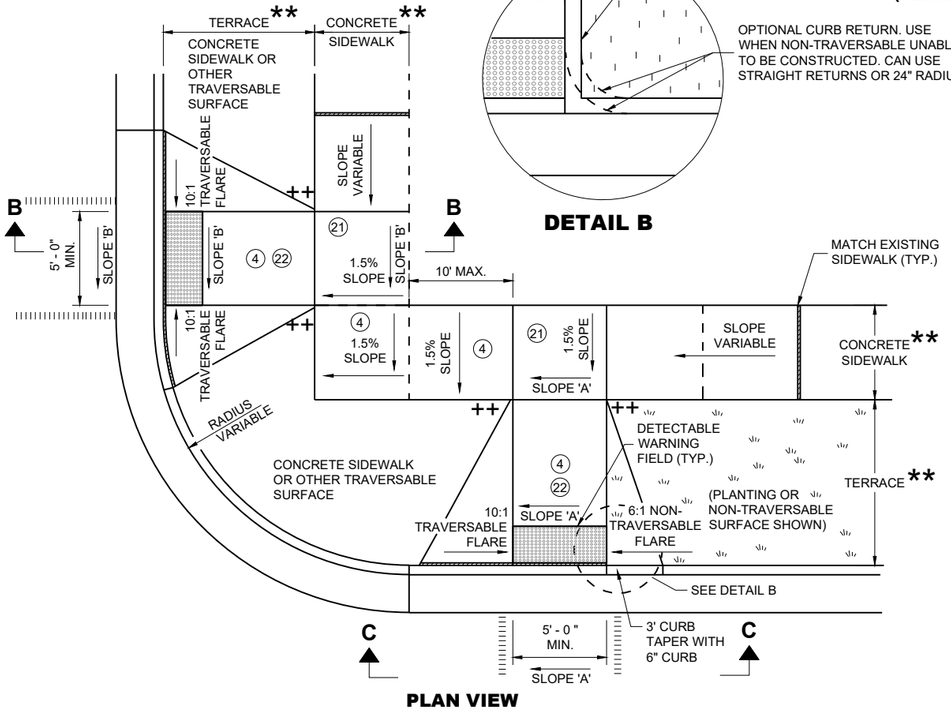
PLAN VIEW

CURB RAMP TYPE 2

(CENTER OF CORNER RADIUS)



DETAIL B



PLAN VIEW

CURB RAMP TYPE 3

(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% DESIGN MAXIMUM SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% DESIGN MAXIMUM SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

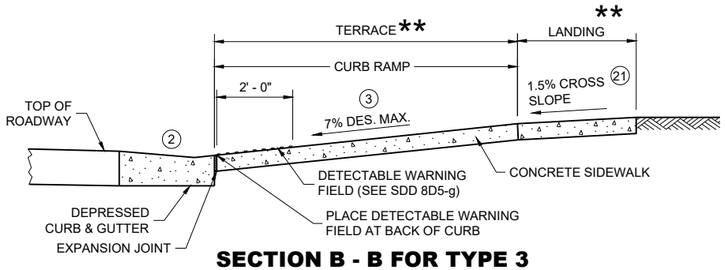
(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(19) WHERE A LANDING SERVES TWO CURB RAMPS, THE LANDING SLOPE SHALL NOT EXCEED THE CROSS SLOPE AT THE BOTTOM OF THE RAMP OR WITHIN THE CROSSWALK PARALLEL TO THE DIRECTION OF TRAVEL.

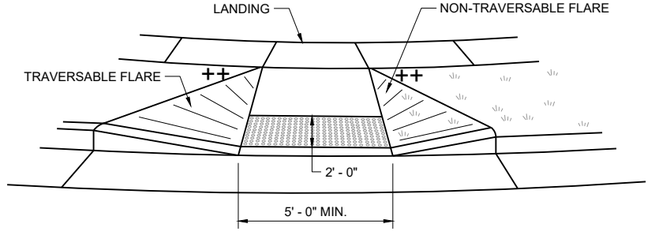
(21) PROVIDE A LANDING WITH A SLOPE PARALLEL TO ROADWAY THAT MATCHES SLOPE AT THE BOTTOM OF THE ADJACENT RAMP. SLOPE PERPENDICULAR TO ROADWAY SHALL BE 2.1% MAXIMUM. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

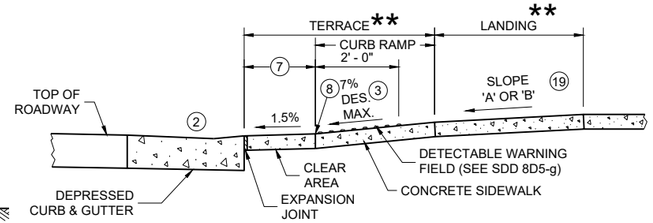
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3



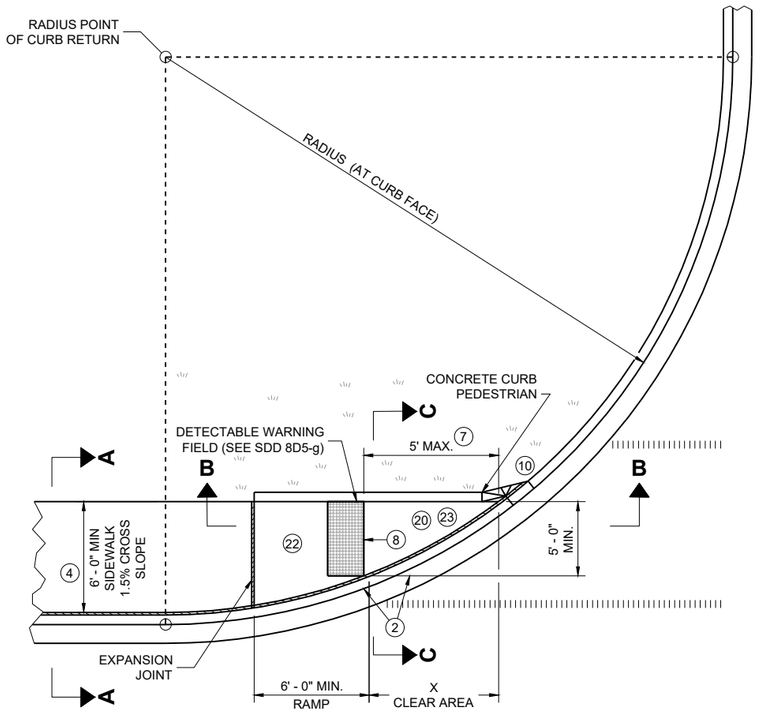
SECTION A - A FOR TYPE 2

LEGEND

▨	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT SIDEWALK
ıllıllıllıllıl	PAVEMENT MARKING CROSSWALK (WHITE)
*	MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK
**	WIDTH SHOWN ELSEWHERE IN THE PLANS
++	CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

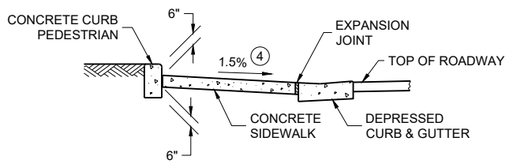
CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

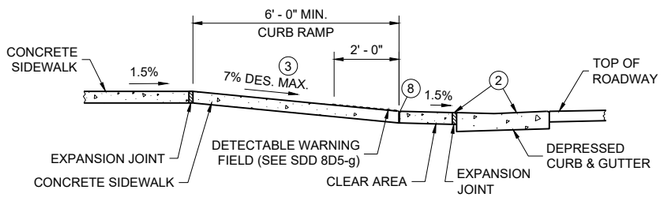


PLAN VIEW

CURB RAMP TYPE 4A



SECTION C - C FOR TYPE 4A



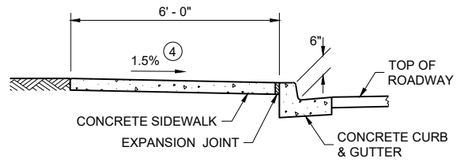
SECTION B - B FOR TYPE 4A AND TYPE 4A1

LEGEND

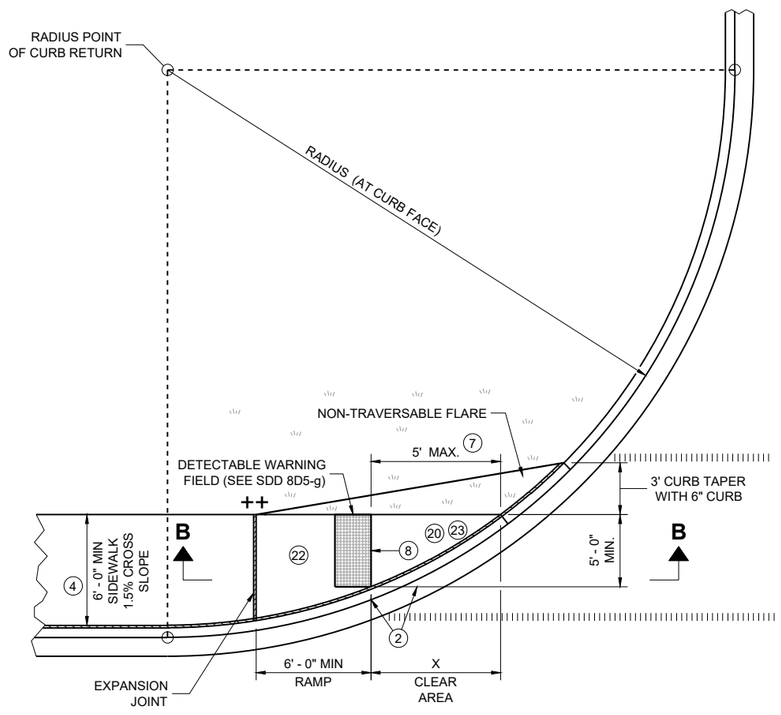
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A



PLAN VIEW

CURB RAMP TYPE 4A1

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

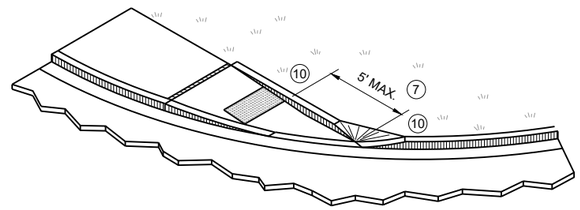
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

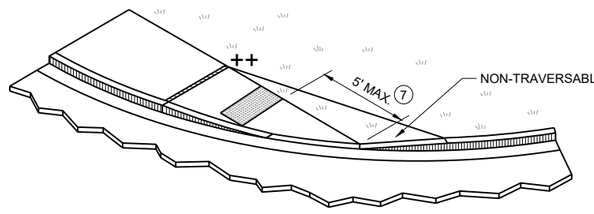
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



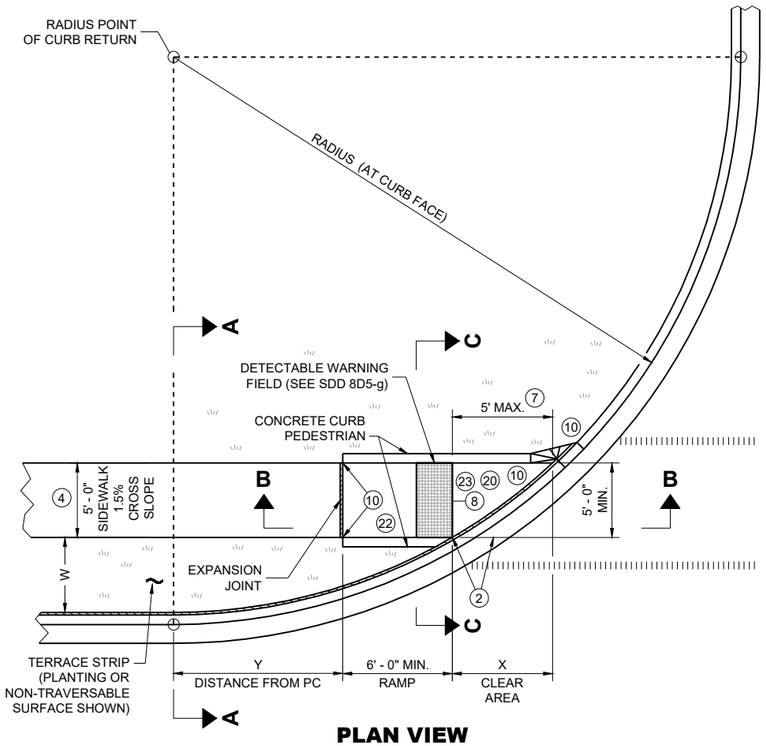
ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

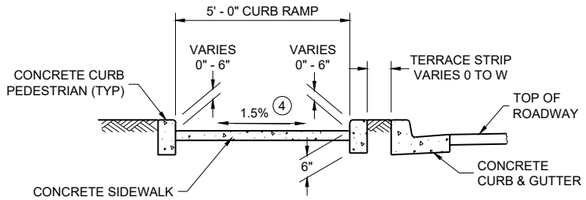
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PLAN VIEW
CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET			4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET									4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET															4' - 10 ¾"	19' - 8 ¼"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)
- * MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

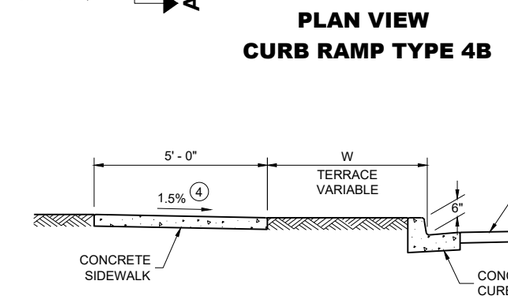
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

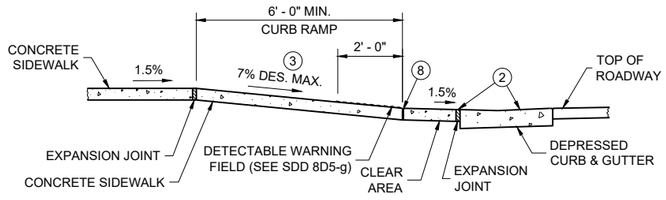
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

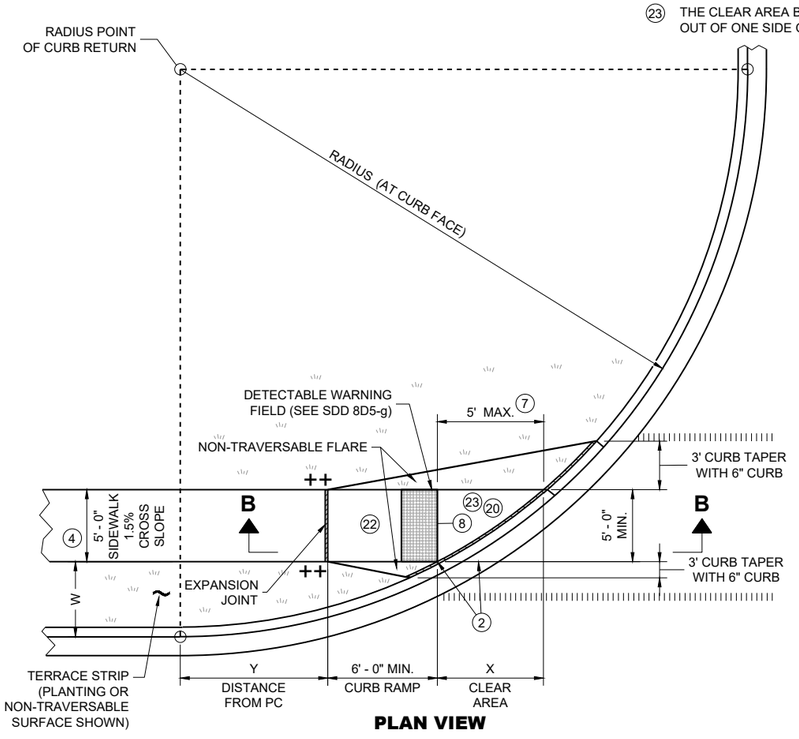
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



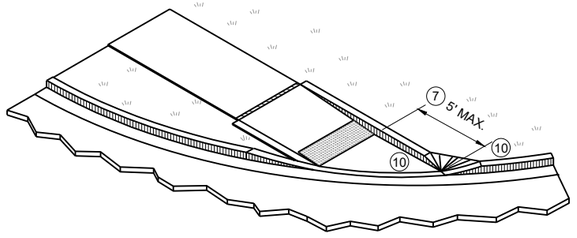
SECTION A - A FOR TYPE 4B



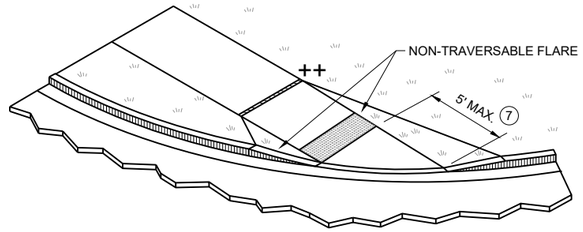
SECTION B - B FOR TYPE 4B AND TYPE 4B1



PLAN VIEW
CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



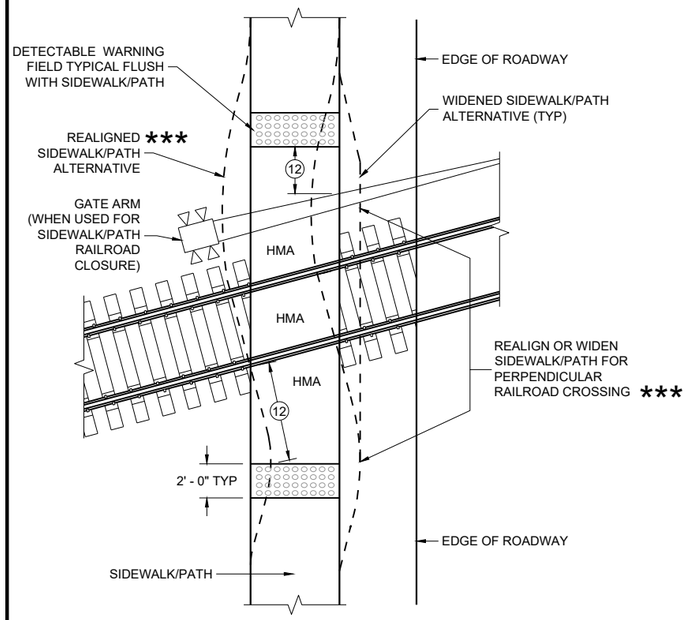
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

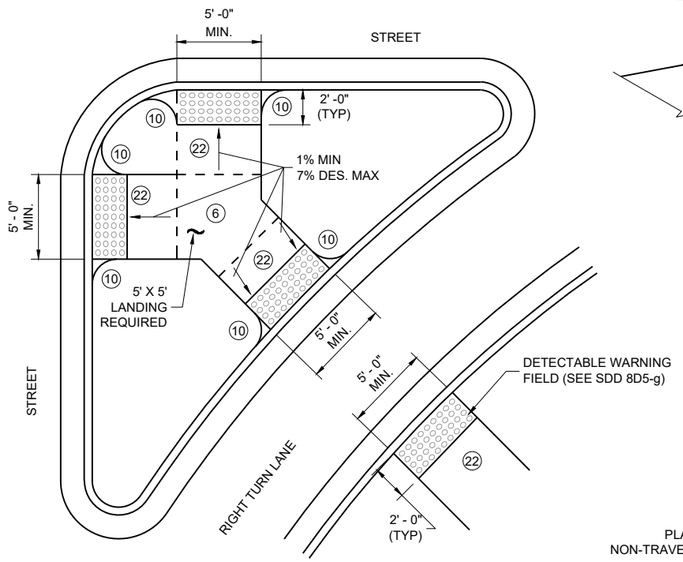
6

SDD 08D05-22d



CURB RAMP TYPE 8

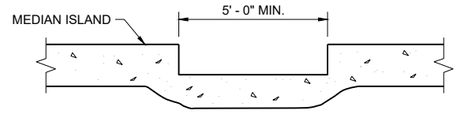
DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



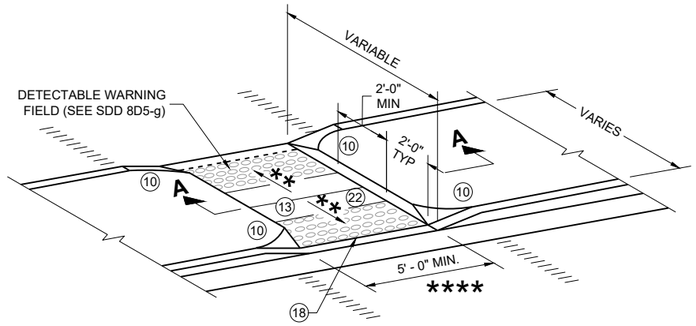
CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS

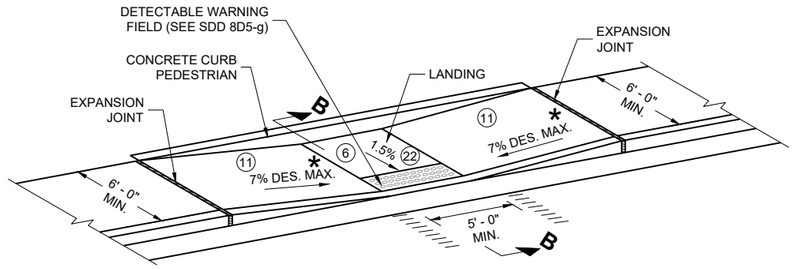


SECTION A - A FOR TYPE 5



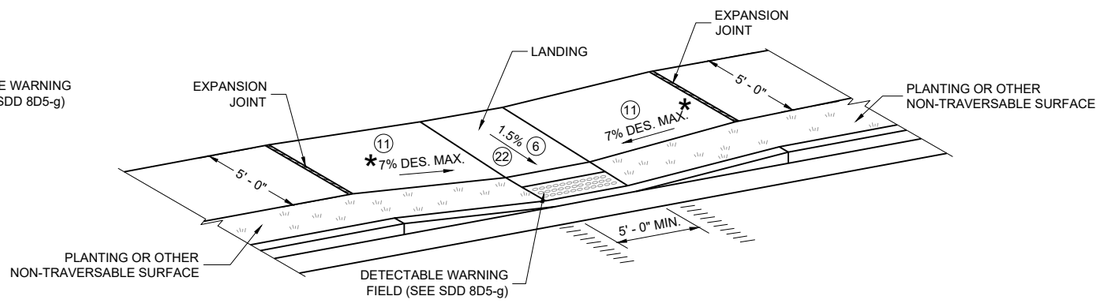
CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING



CURB RAMP TYPE 7A

FOR INTERSECTIONS AND MID BLOCK CROSSINGS



CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH, WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

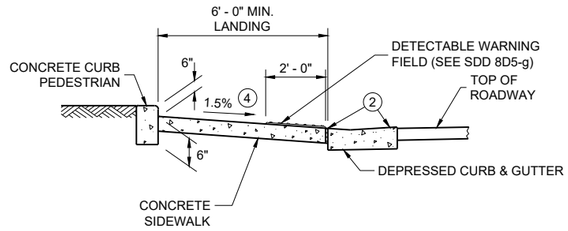
(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(18) WHEN THE DISTANCE BETWEEN THE BACK OF CURBS IS LESS THAN 6 FEET BUT THE FACE OF CURB TO FACE OF CURB DISTANCE IS 6 FEET OR GREATER THEN THE DETECTABLE WARNING FIELDS MAY BE MOVED SO THAT THE EDGE OF THE WARNING FIELD IS PLACED AT THE GUTTER FLOWLINE. MAINTAIN A MINIMUM OF TWO FEET BETWEEN DETECTABLE WARNING FIELD PANELS.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

LEGEND

═══	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT FIELD LOCATED
ıı ıı ıı ıı	PAVEMENT MARKING CROSSWALK (WHITE)
*	MAXIMUM 8.3%
**	1% MINIMUM (PROVIDE DRAINAGE)
***	DETAILS TO BE DETERMINED BY ENGINEER
****	FOR SHARED USE PATHS, WIDTH MUST BE AS WIDE AS THE CROSSWALK

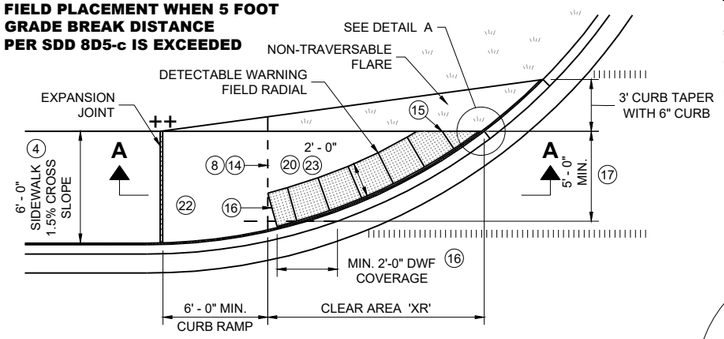


SECTION B - B FOR TYPE 7A

CURB RAMPS
TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

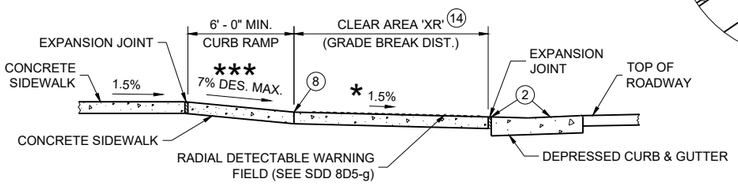
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

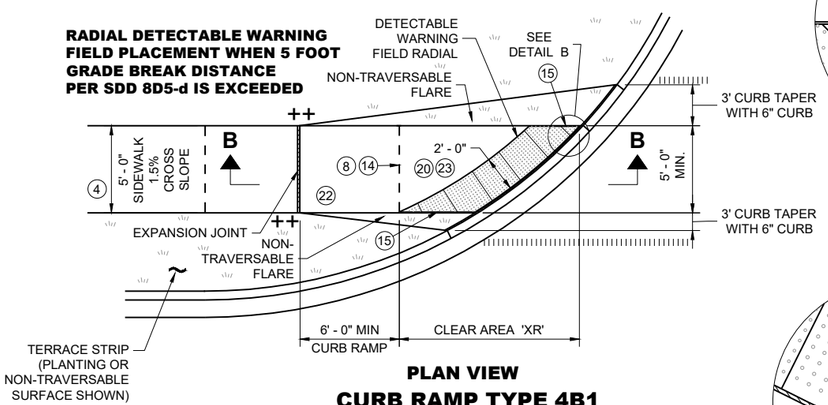
CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



SECTION A - A FOR TYPE 4A1

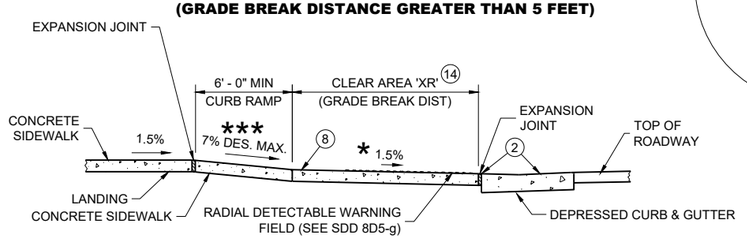
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4B1

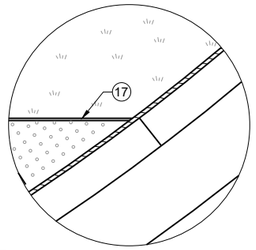
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



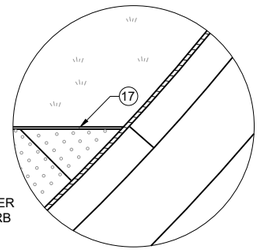
SECTION B - B FOR TYPE 4B1

LEGEND

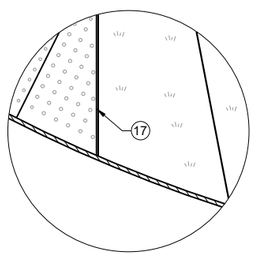
═══	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT SIDEWALK
ıı ıı ıı ıı	PAVEMENT MARKING CROSSWALK (WHITE)
**	WIDTH SHOWN ELSEWHERE IN THE PLANS
***	MAXIMUM 8.3%
++	CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



DETAIL A

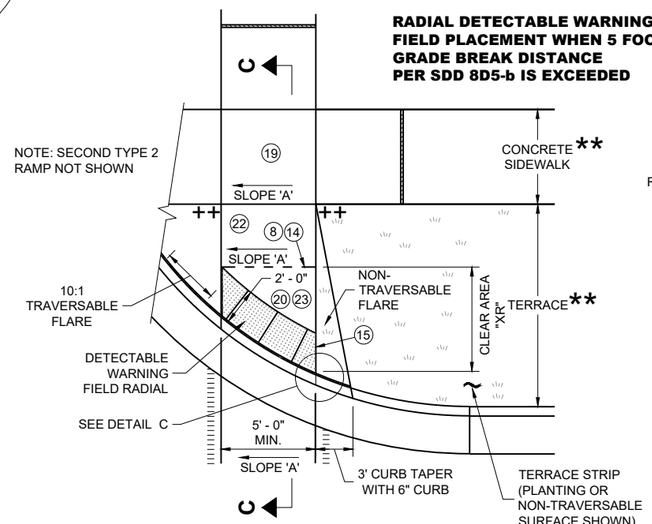


DETAIL B



DETAIL C

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

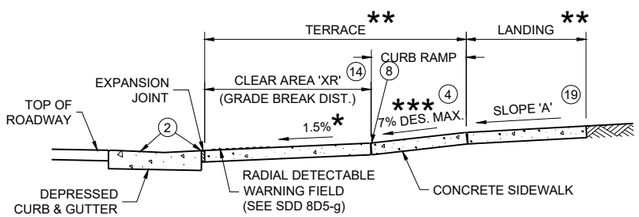


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)



SECTION C - C FOR TYPE 2

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(19) WHERE A LANDING SERVES TWO CURB RAMPS, THE LANDING SLOPE SHALL NOT EXCEED THE CROSS SLOPE AT THE BOTTOM OF THE RAMP OR WITHIN THE CROSSWALK PARALLEL TO THE DIRECTION OF TRAVEL.

(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

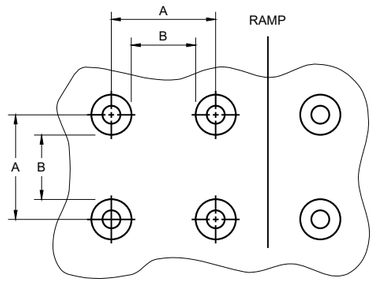
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.

CURB RAMPS
RADIAL DETECTABLE WARNING

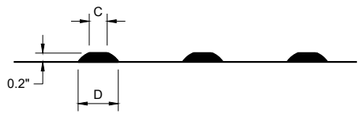
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

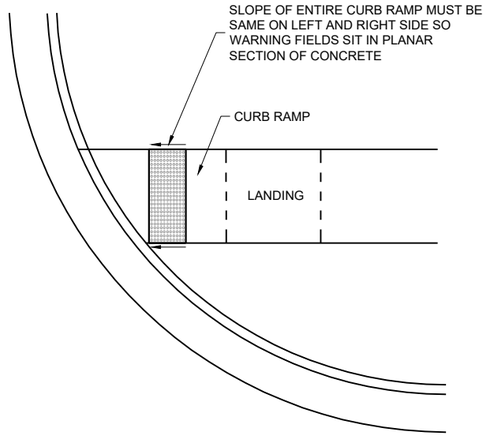
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

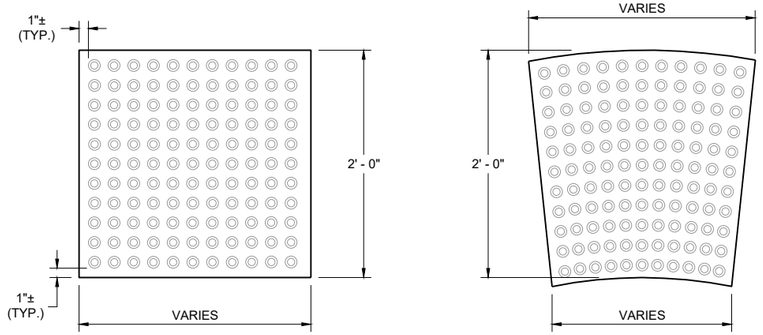
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

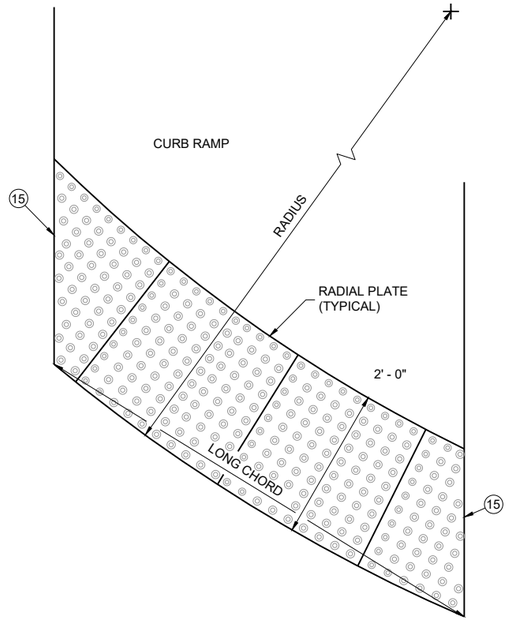
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



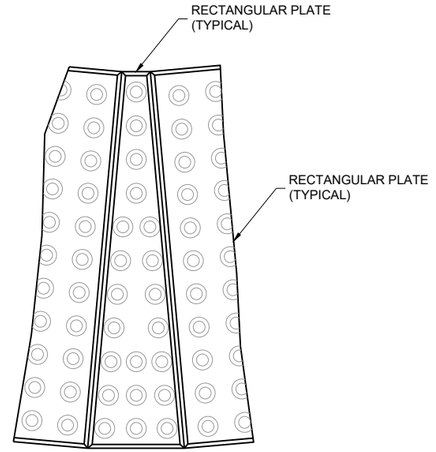
RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

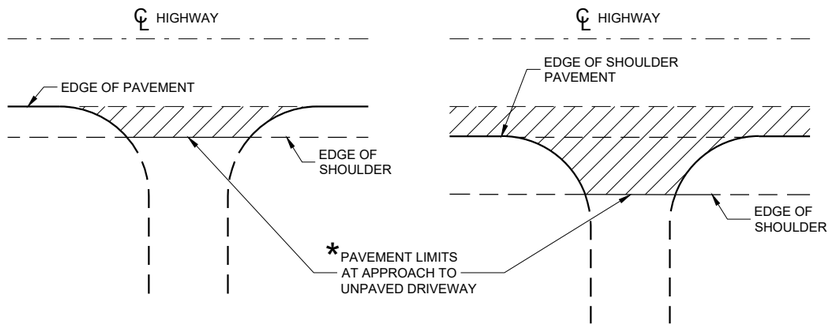
CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — <position>

FHWA

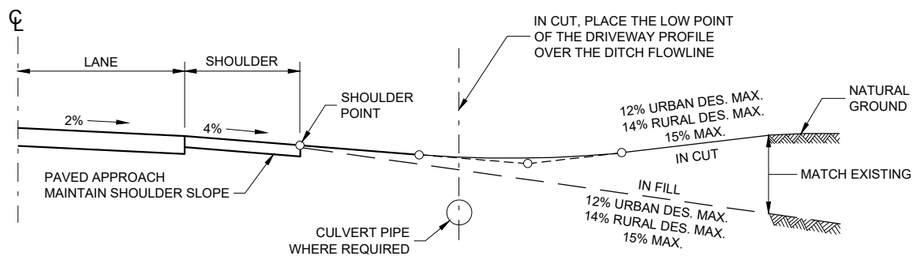
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SDD 08D05-22g



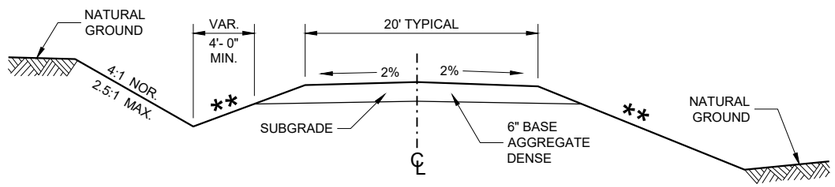
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

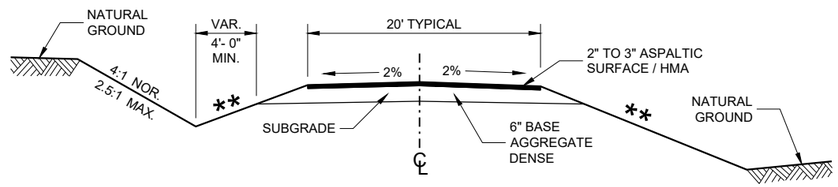


IN CUT IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



IN CUT IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

6

SDD 08D21 - 01

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

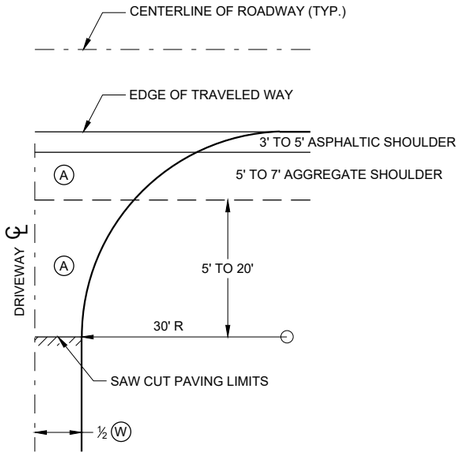
FHWA

6

SDD 08D21 - 01

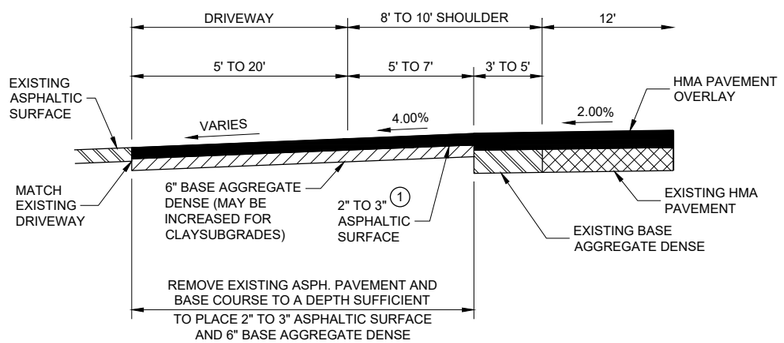
GENERAL NOTES

(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PLAN VIEW

HALF SECTION



PROFILE VIEW

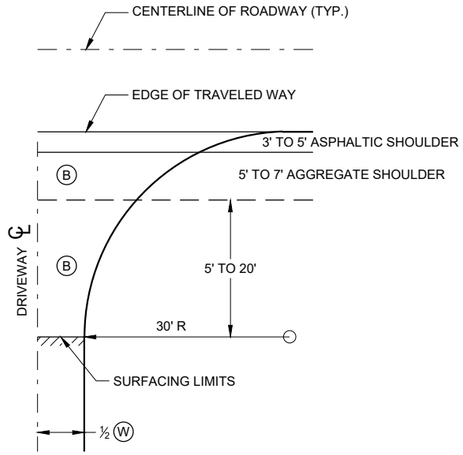
RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS

(A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)

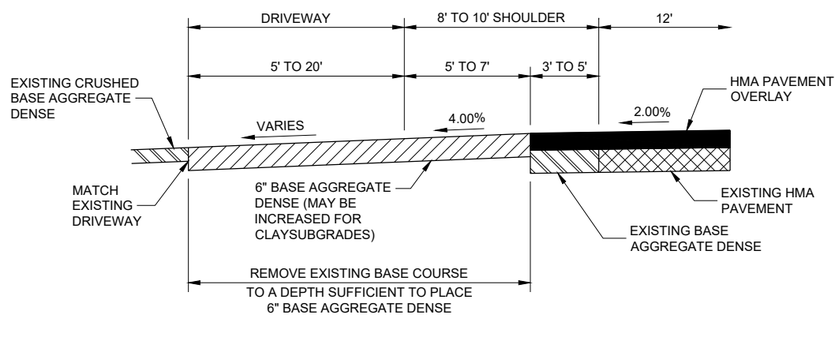
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

(W) : DRIVEWAY WIDTH 16' MIN. - 24' MAX.



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE

RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

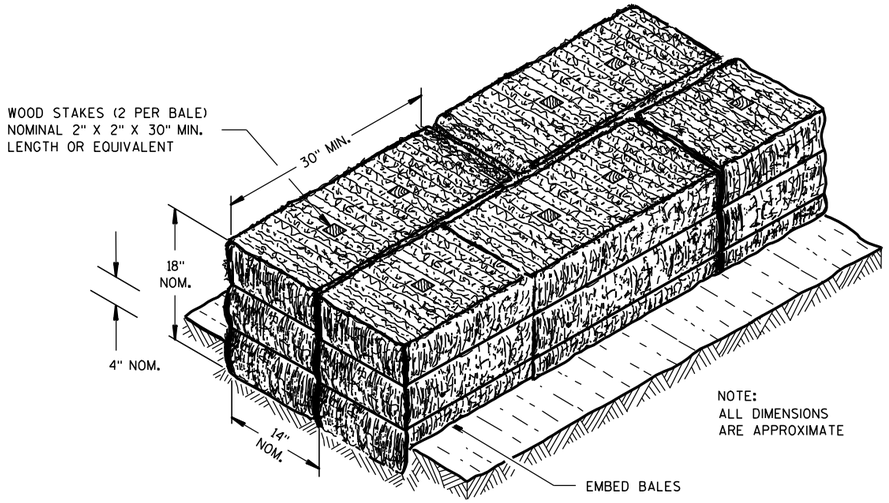
APPROVED
December 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

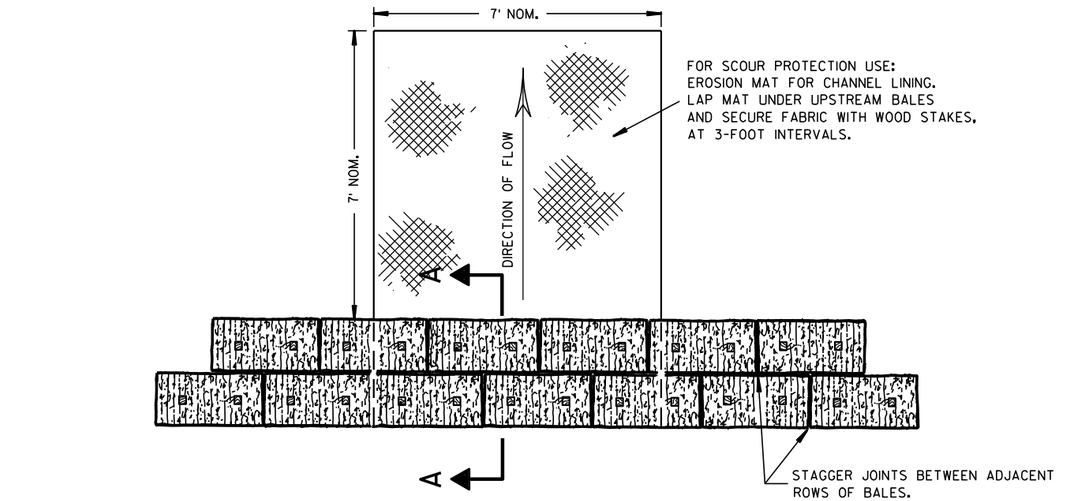
FHWA

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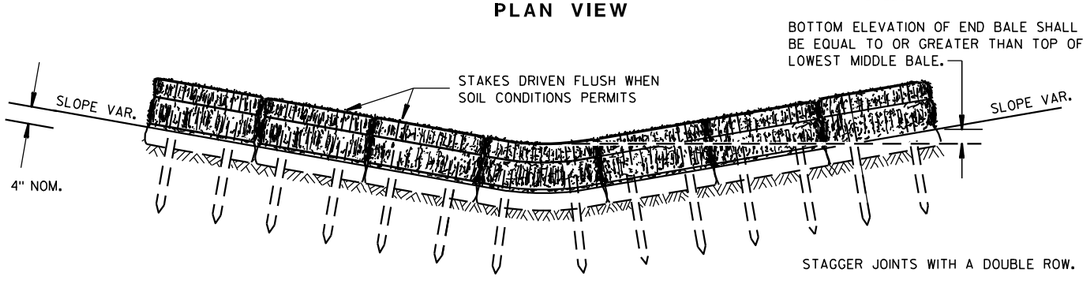
SDD 08D22 - 01



SECTION A-A



PLAN VIEW



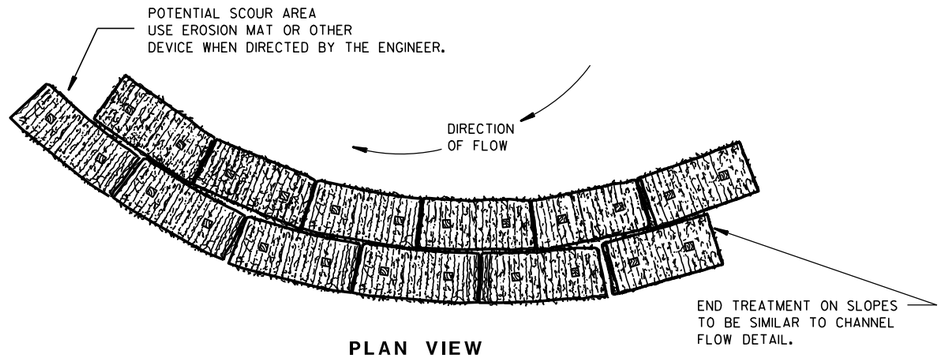
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

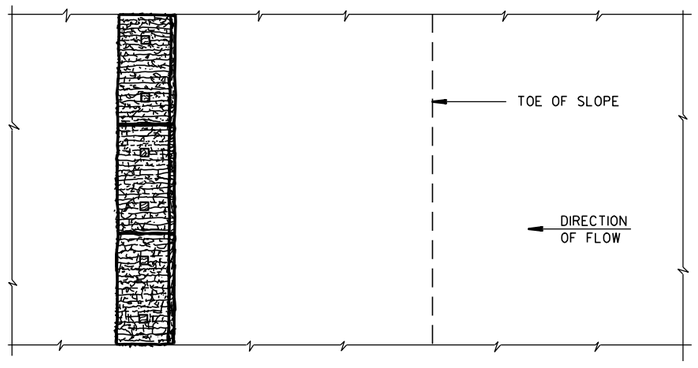
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

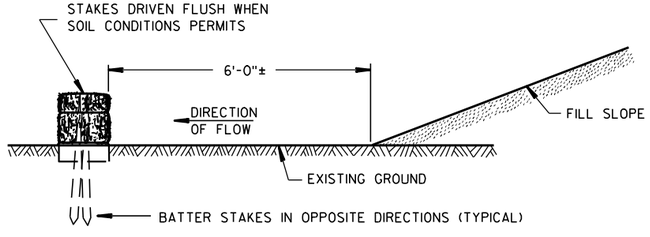


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 DATE — /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

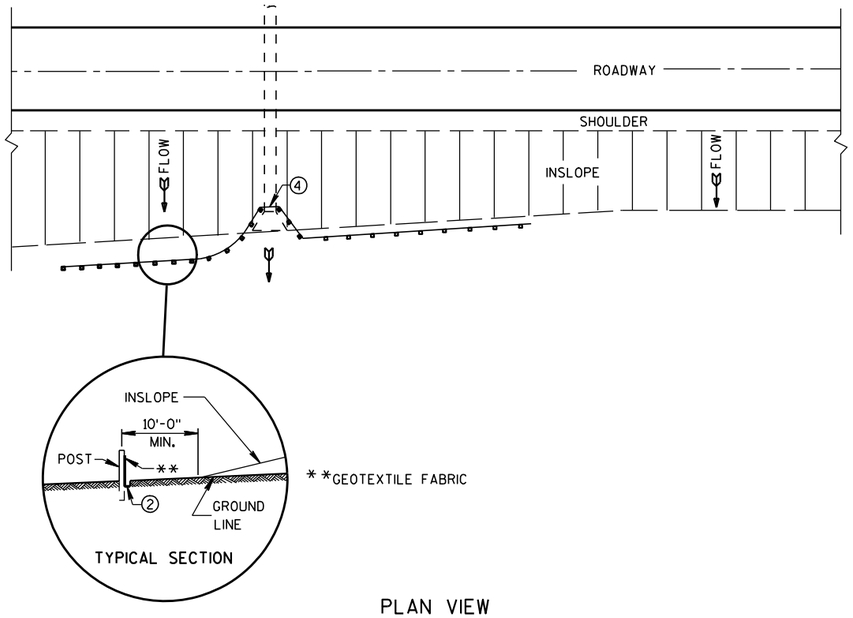
FHWA

6

S.D.D. 8 E 8-3

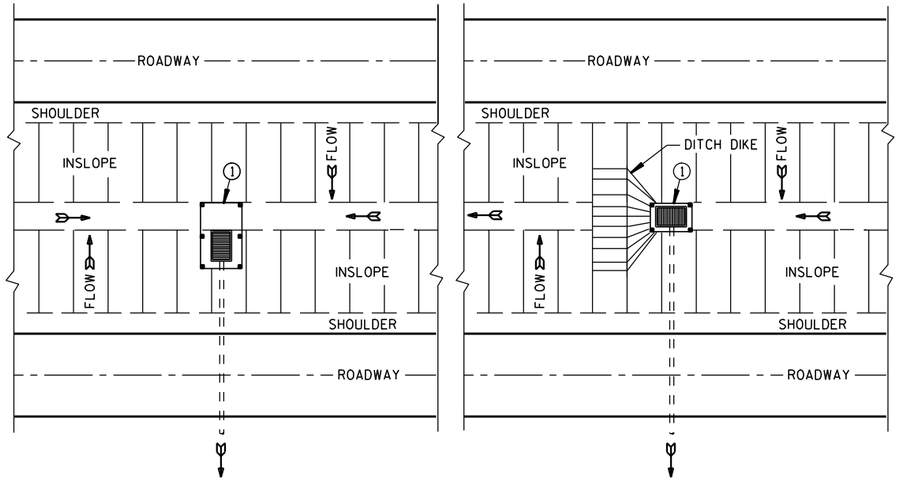
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



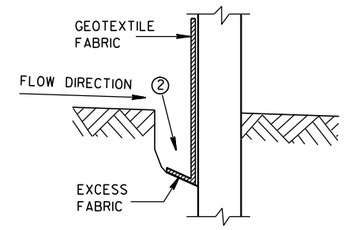
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

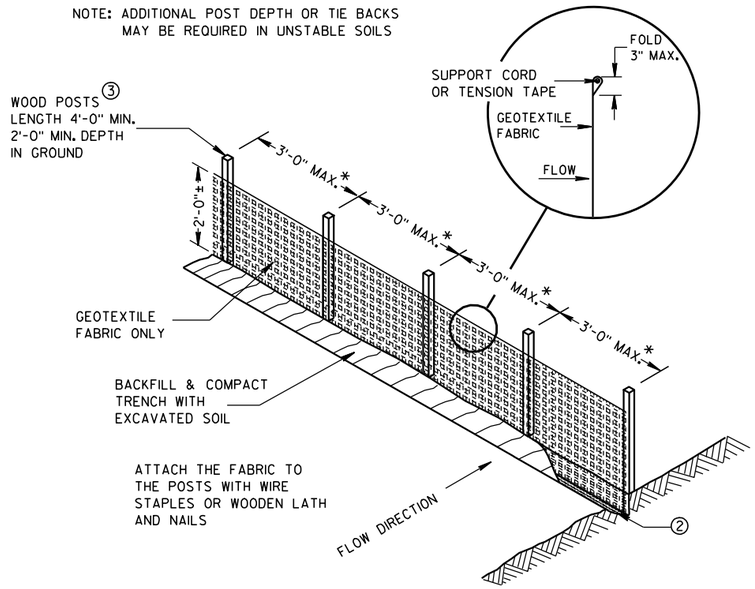
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

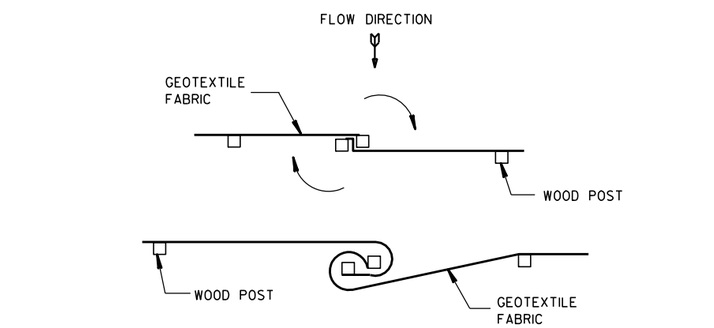
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



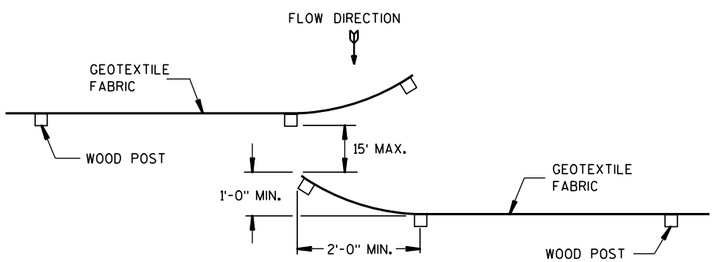
TRENCH DETAIL



SILT FENCE

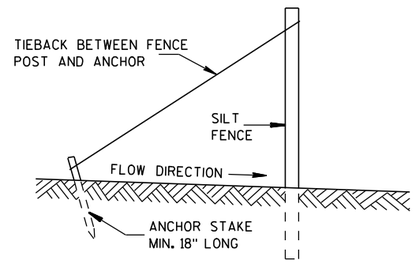


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

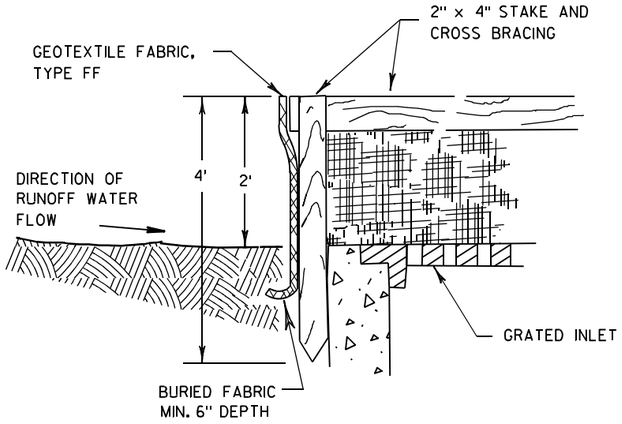
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

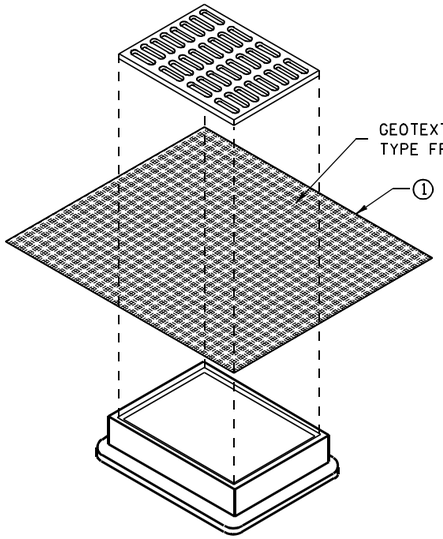
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S.D.D. 8 E 9-6

6

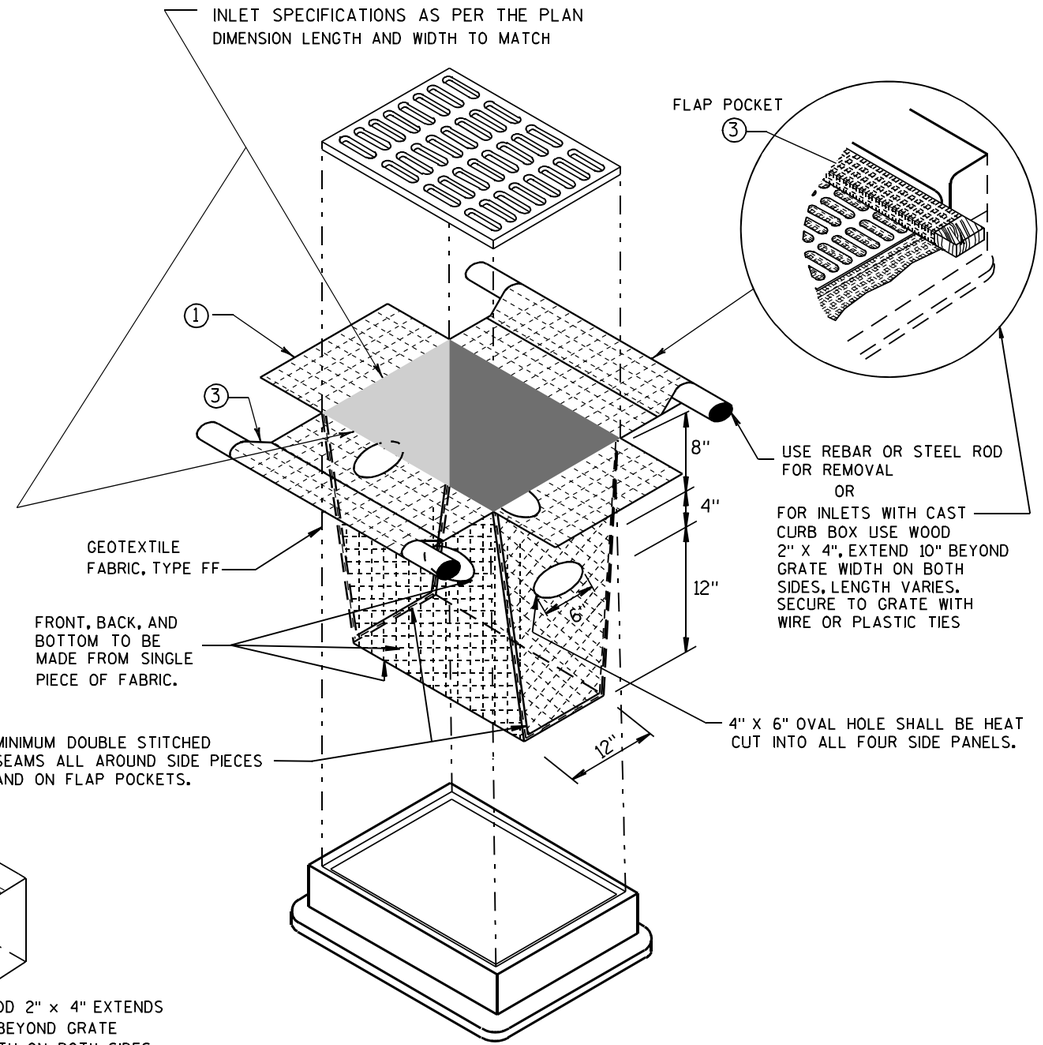
S.D.D. 8 E 9-6

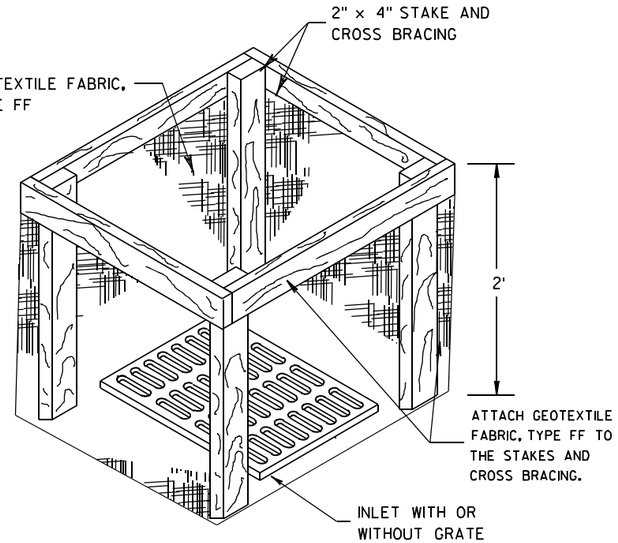




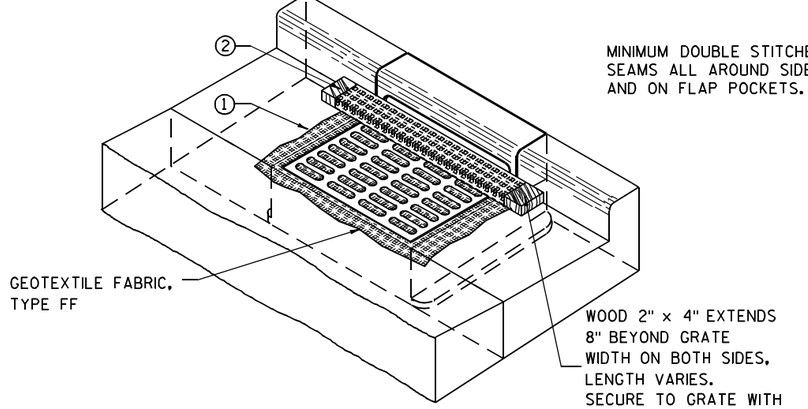
INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)





INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE C (WITH CURB BOX)

INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

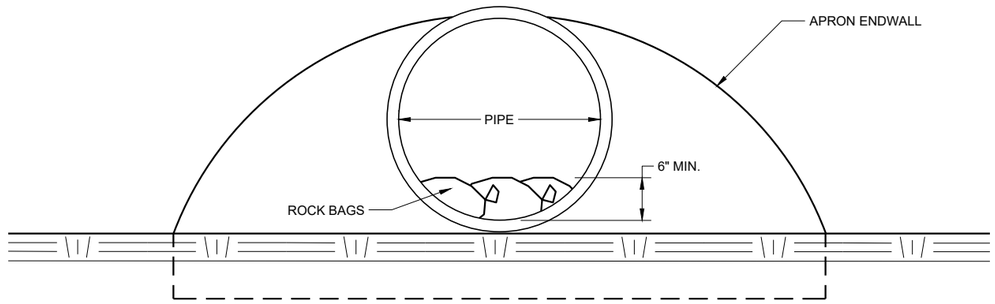
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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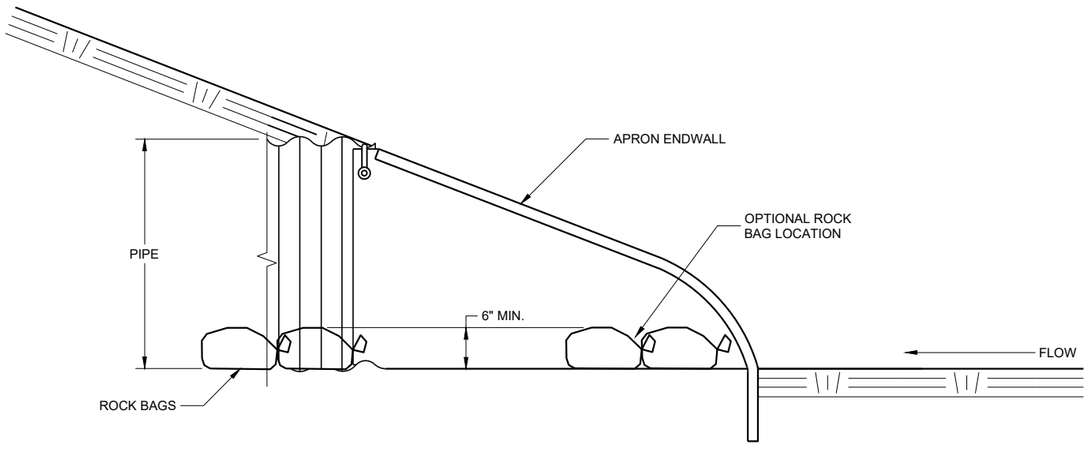
S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

6

SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

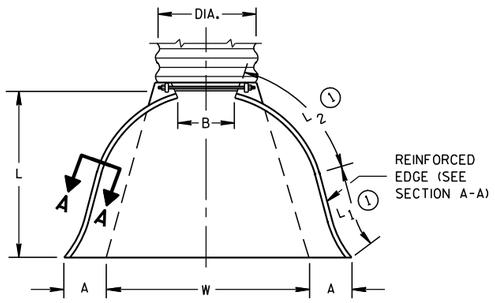
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

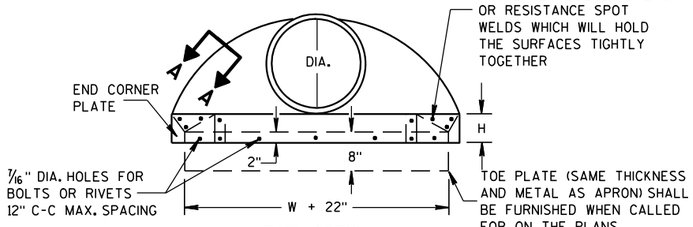
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

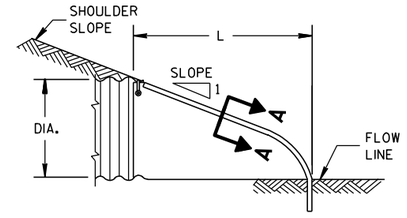
*MINIMUM
**MAXIMUM



PLAN VIEW

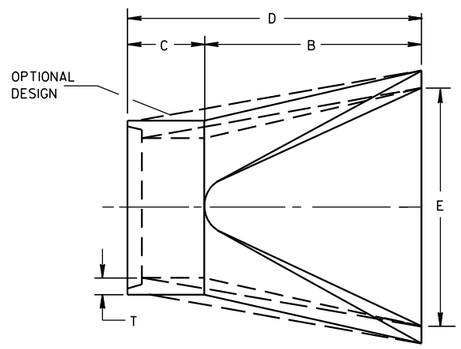


END VIEW

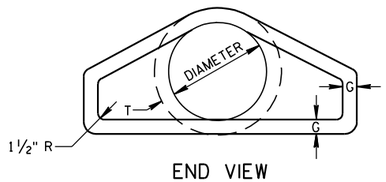


SIDE ELEVATION

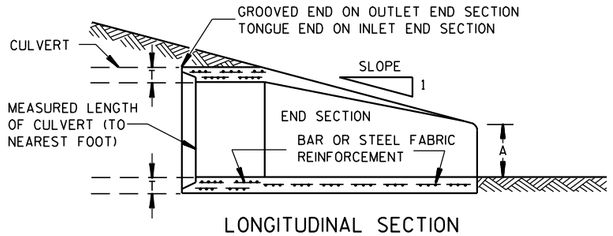
METAL ENDWALLS



PLAN

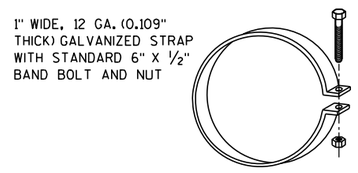


END VIEW



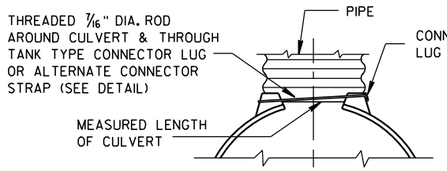
LONGITUDINAL SECTION

CONCRETE ENDWALLS

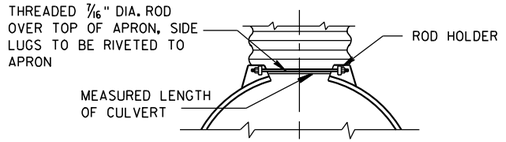


ALTERNATE FOR TYPE 1 CONNECTION

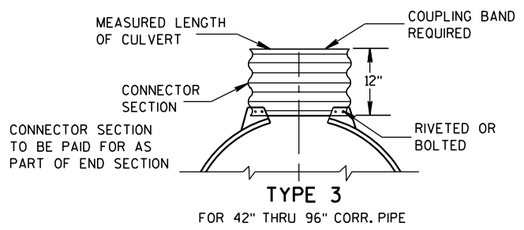
END SECTION CONNECTOR STRAP



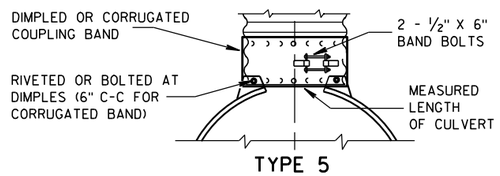
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

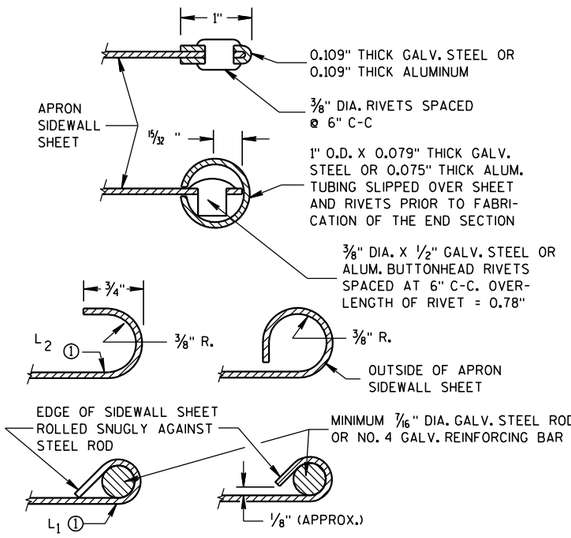
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

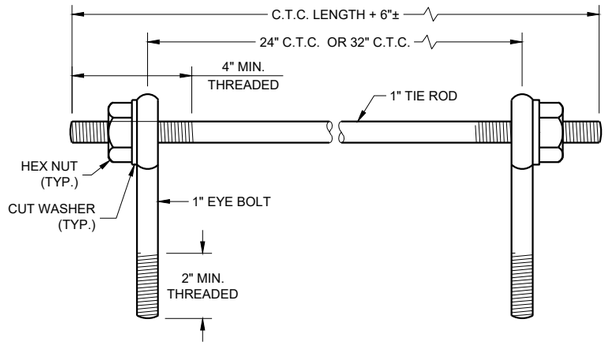
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

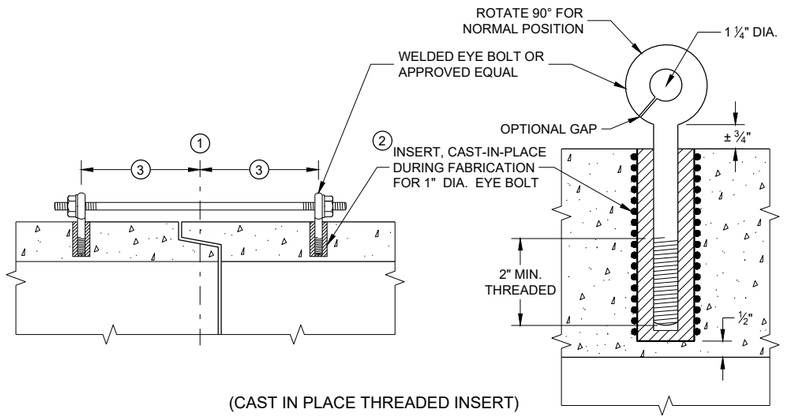
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

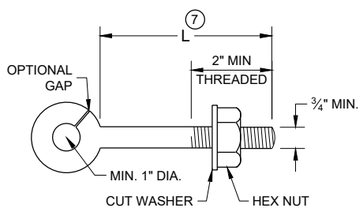
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

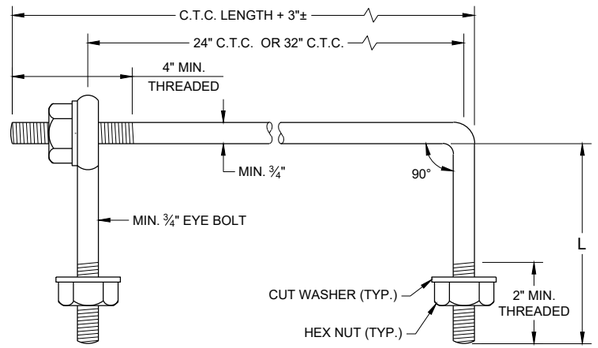
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

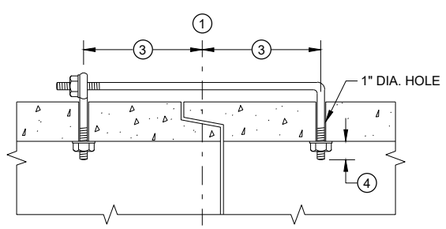


EYE BOLT (7)

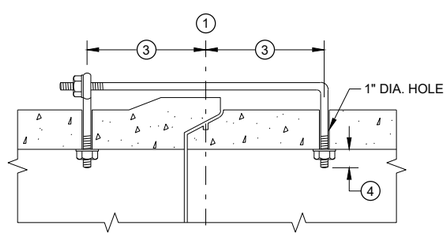
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

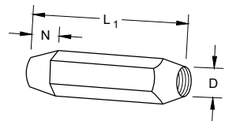
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

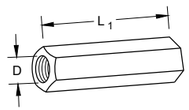
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



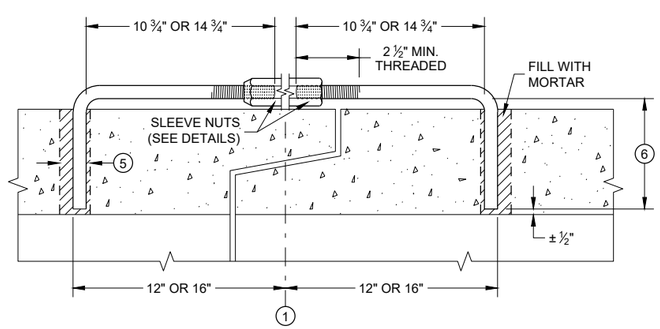
TAPERED



PLAIN

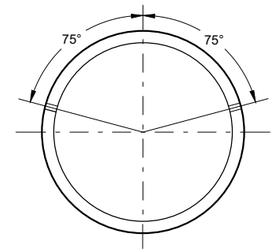
RIGHT AND LEFT THREADS

SLEEVE NUTS



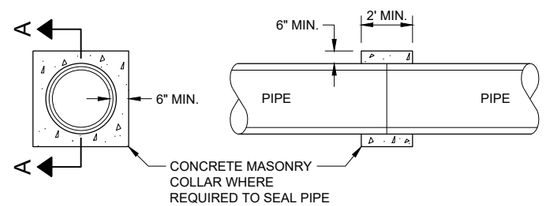
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

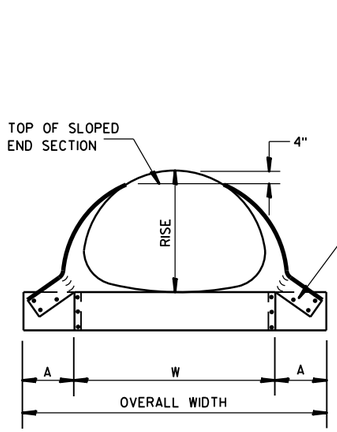
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

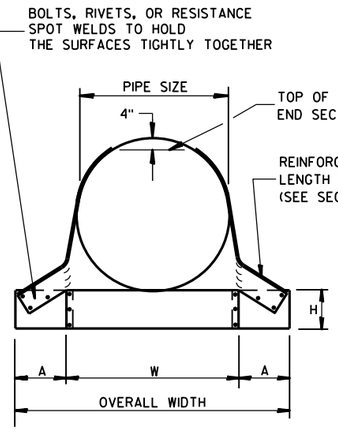
FHWA

SDD 08F04 - 08

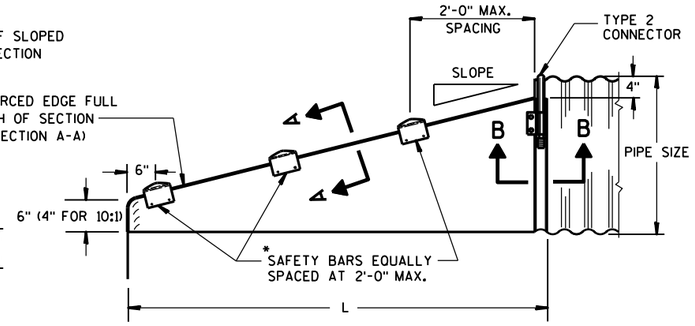
SDD 08F04 - 08



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

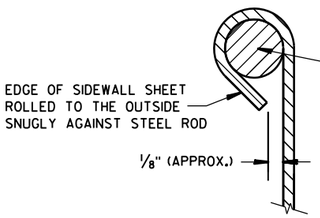
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

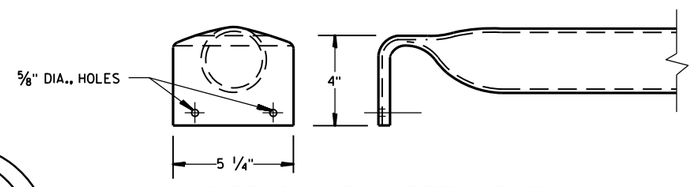
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

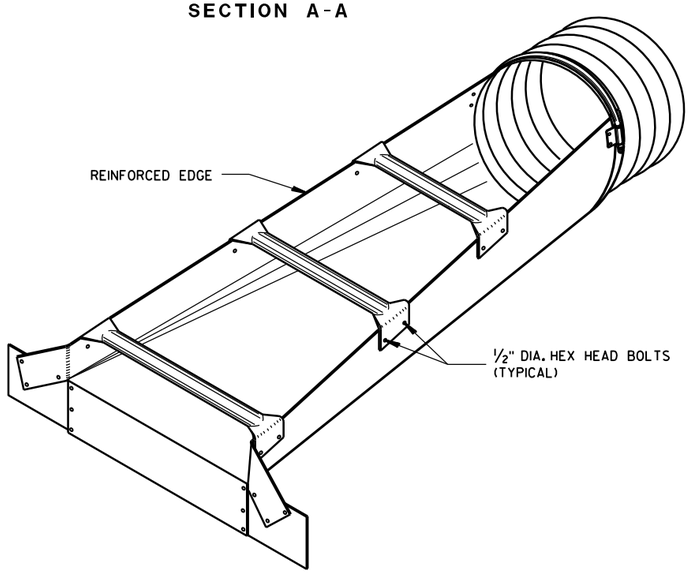


DETAIL OF SAFETY BAR

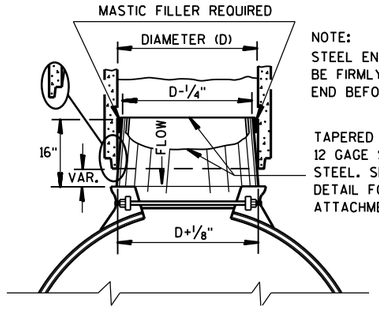
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

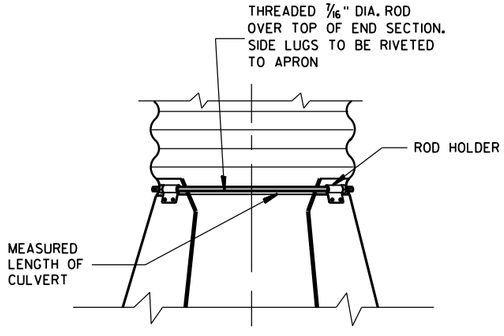
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



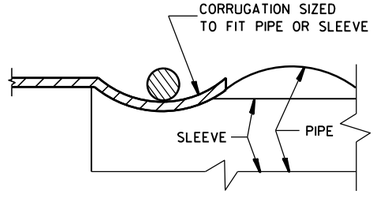
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

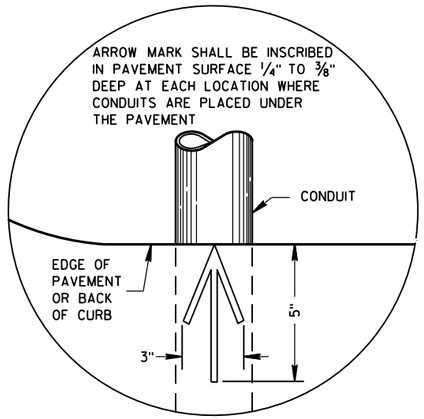
APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

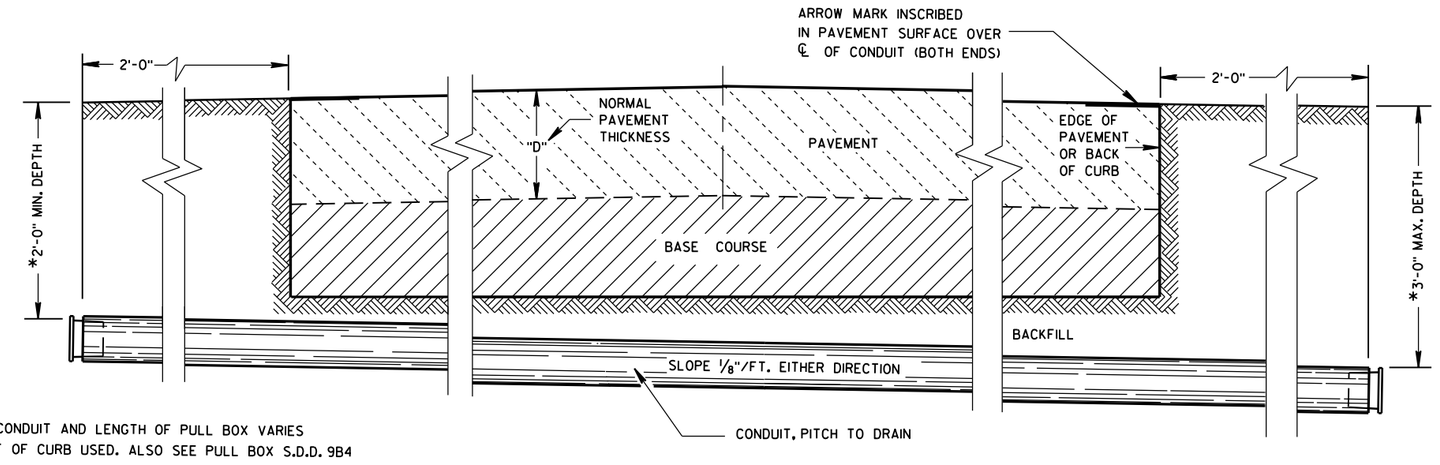
6

S.D.D. 8 F 7-5



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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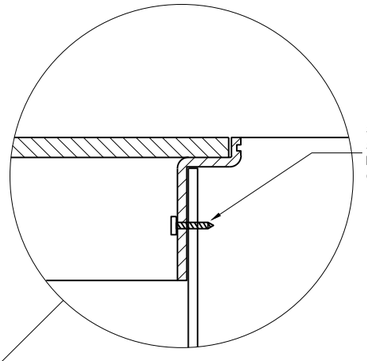
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS
AND WEIGHTS

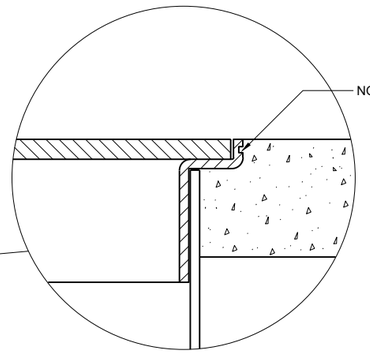
DIMENSION IN INCHES		NON- CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 ½	22 ½
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

*THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE.



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN ½" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN ¼".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

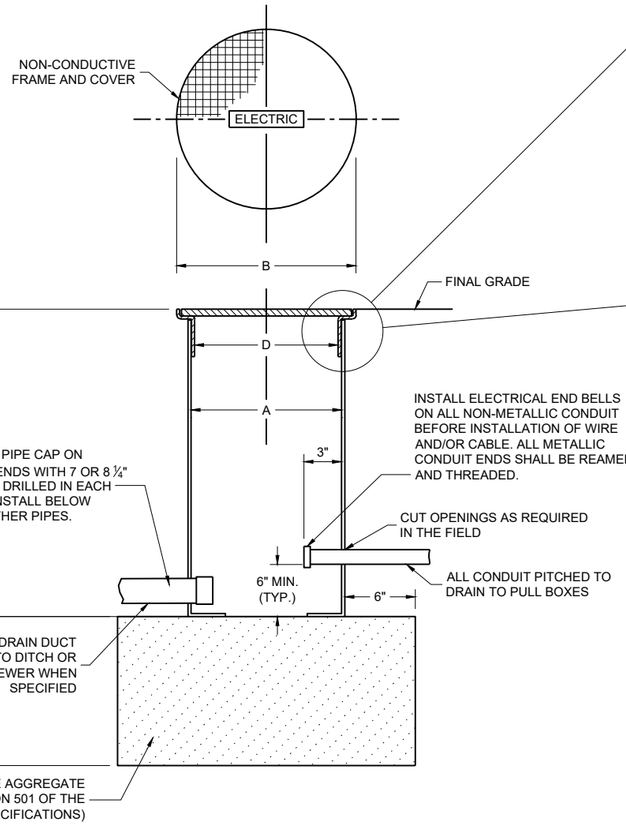
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

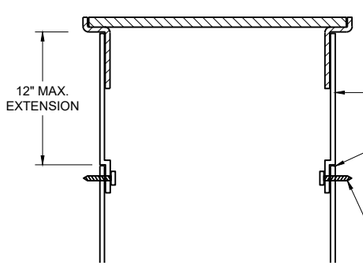
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE.

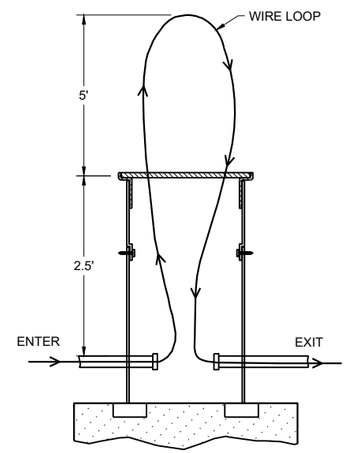
LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



NON-CONDUCTIVE PULL BOX



BOX EXTENSION



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

PULL BOXES NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

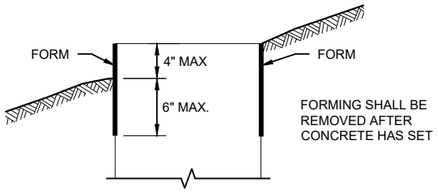
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FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

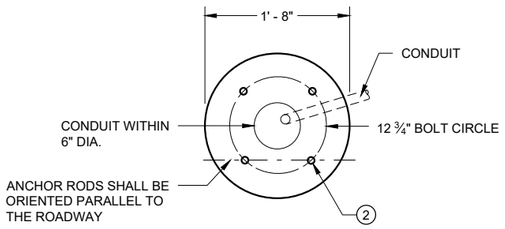
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

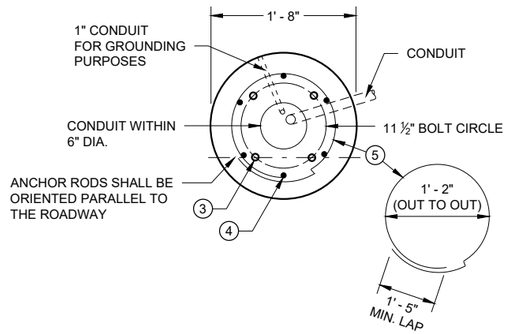
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

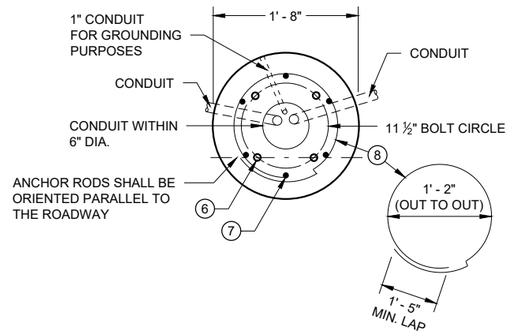
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

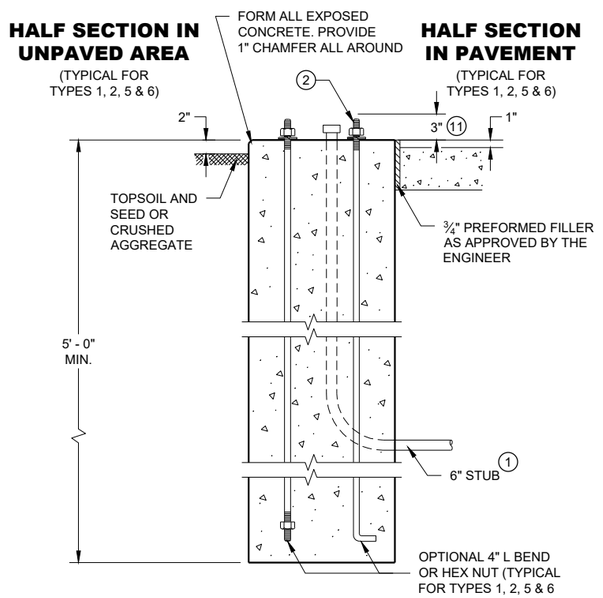
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

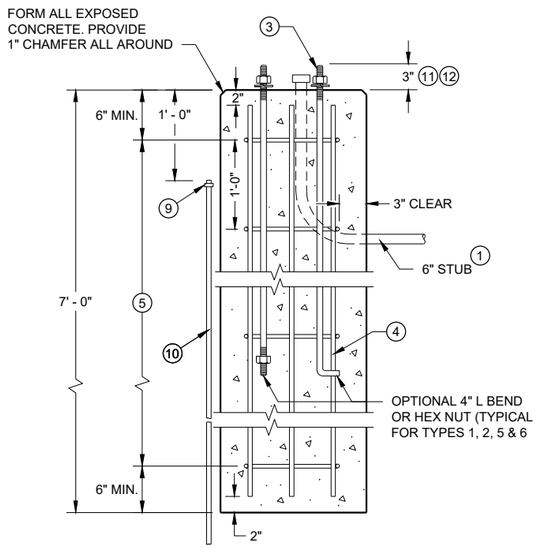




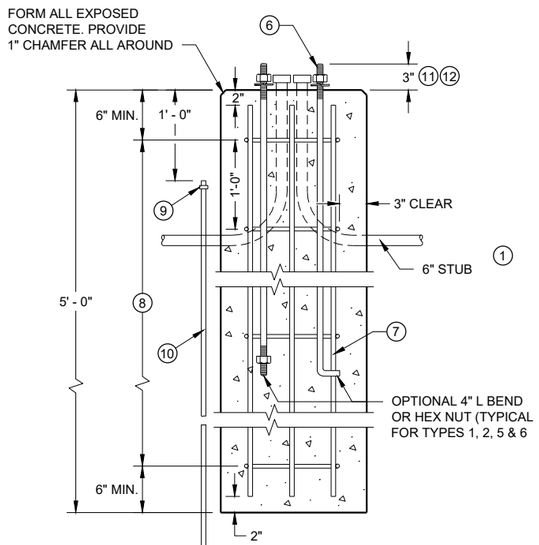




TYPE 1



TYPE 2



TYPE 5 & 6

1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

6
SDD 09C02 - 09

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

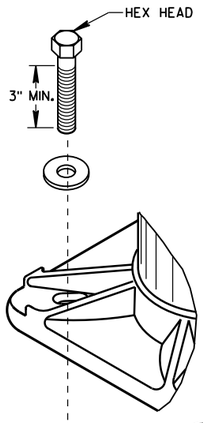
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

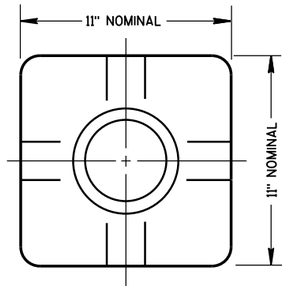
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

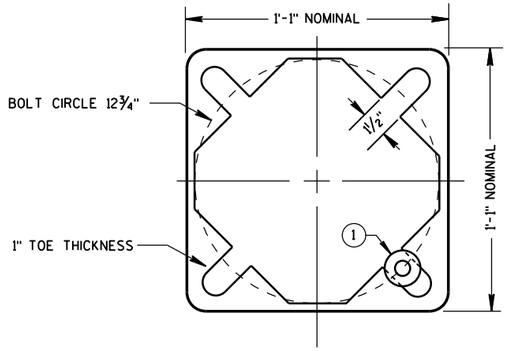
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

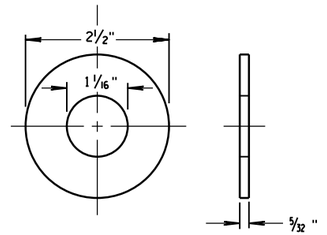




TOP VIEW
(PEDESTAL BASE)

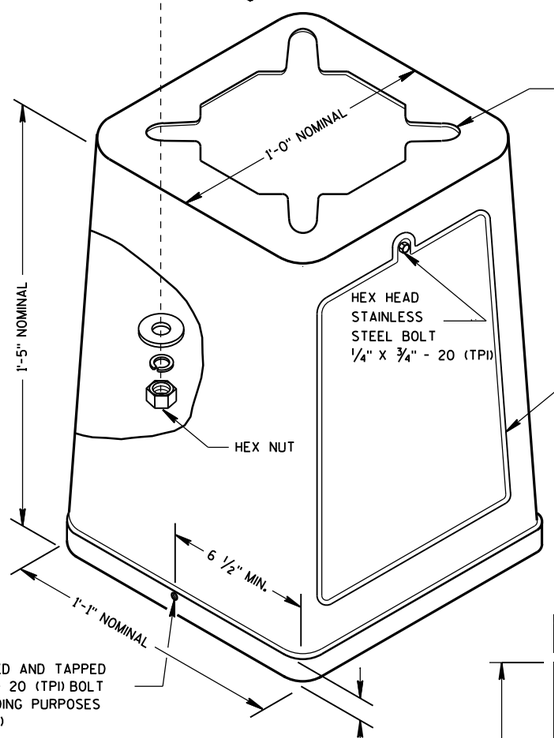


BOTTOM VIEW
(PEDESTAL BASE)

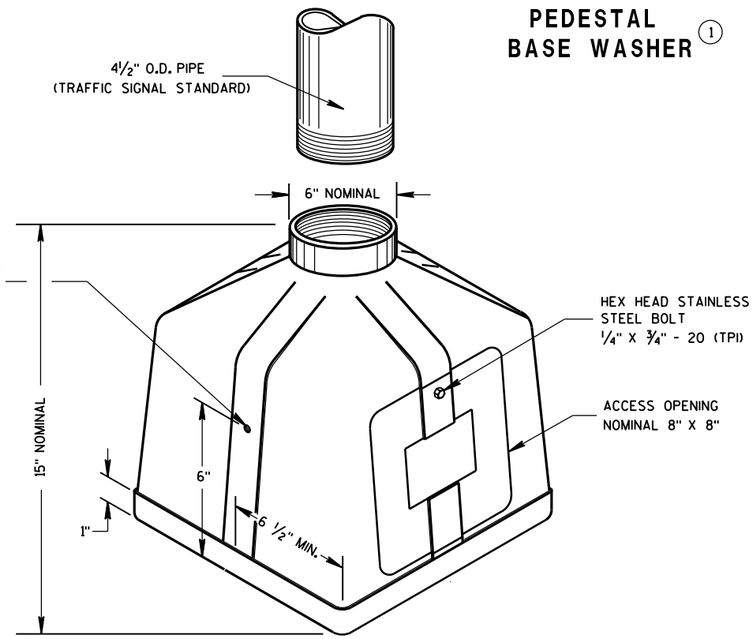


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

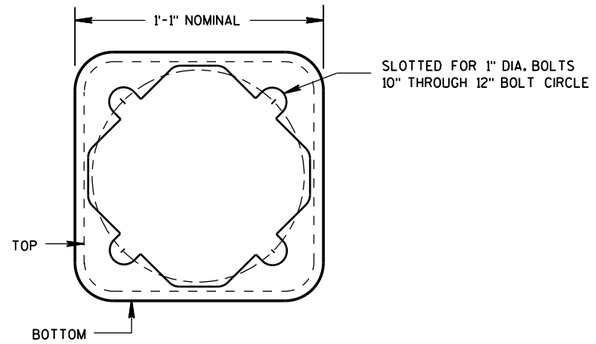
PEDESTAL BASE WASHER (1)



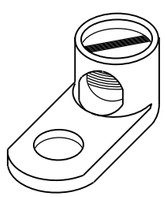
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE

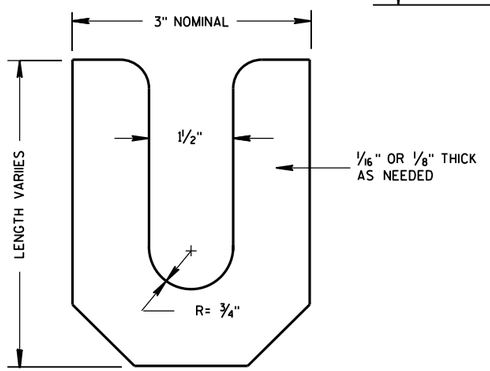


BOTTOM VIEW
(TRANSFORMER BASE)



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

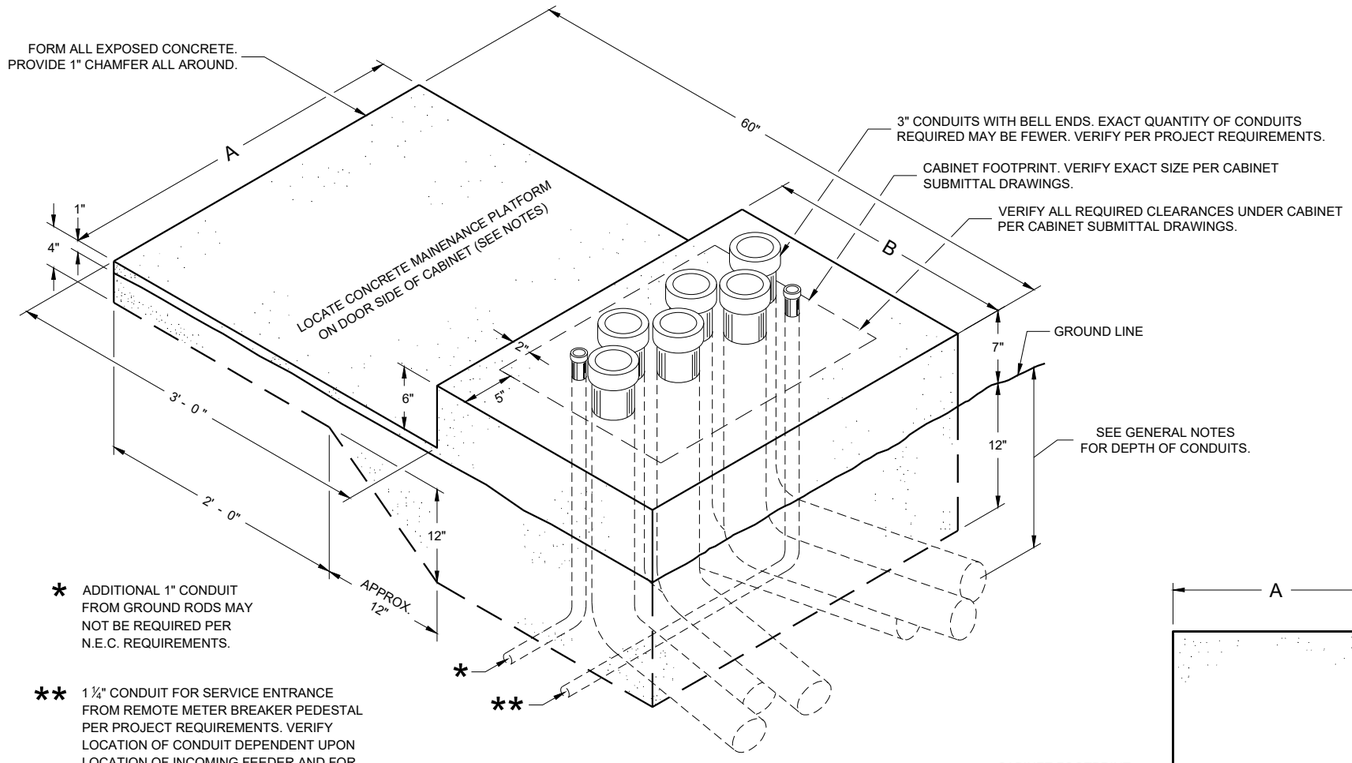
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 3-4

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S.D.D. 9 C 3-4



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

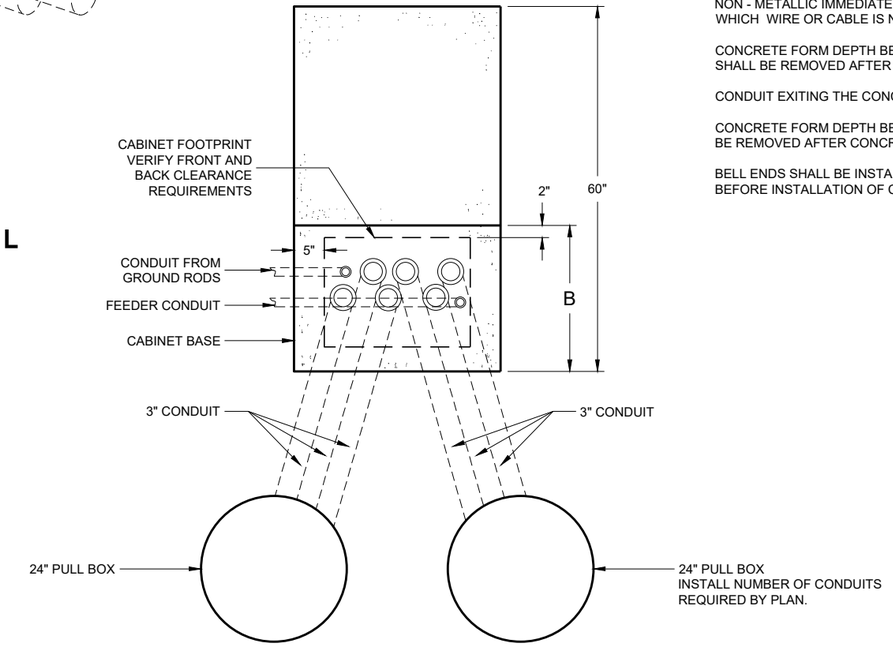
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

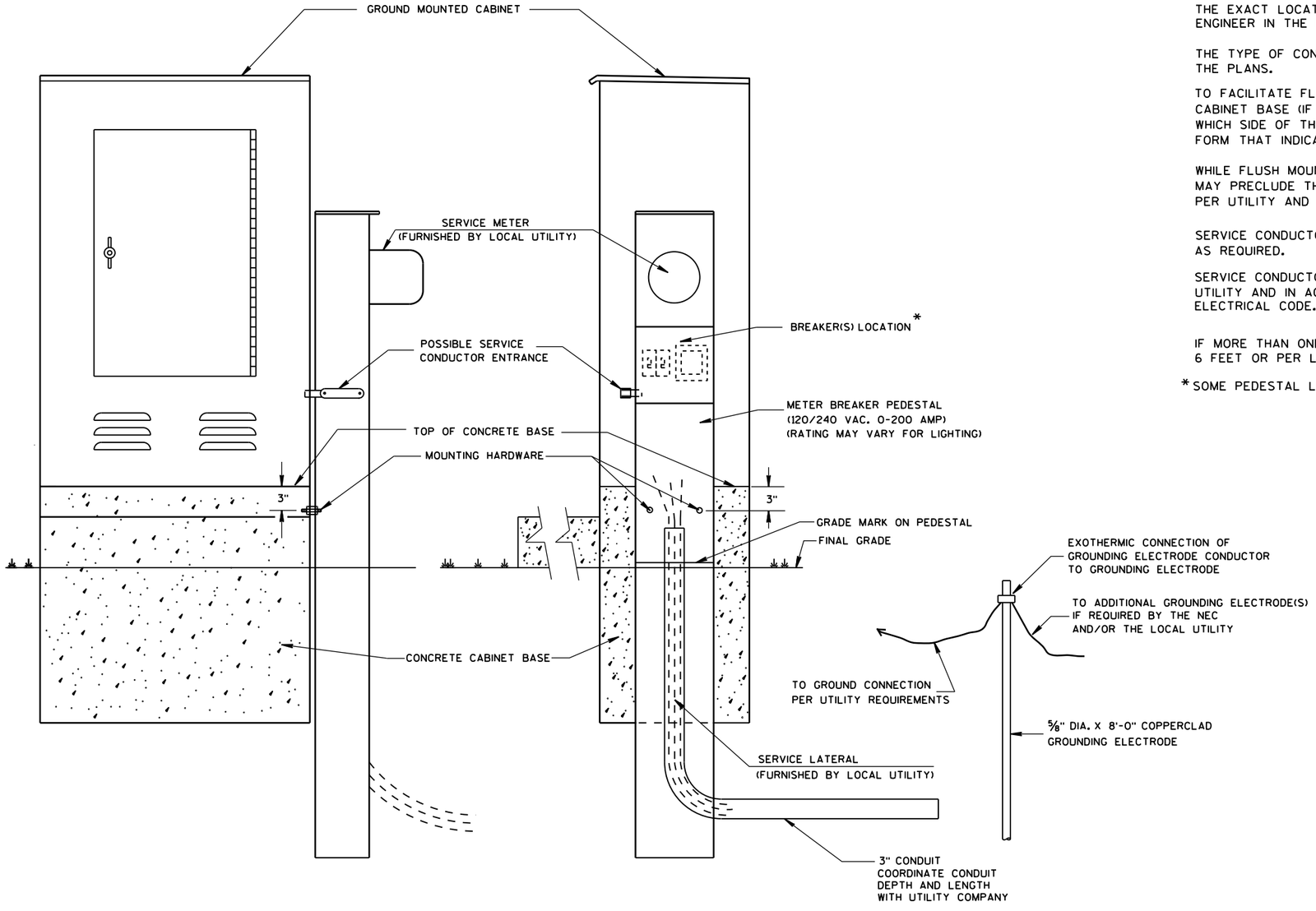
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 199

FHWA

6
SDD 09C14 - 03



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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S.D.D. 9 D 1-5

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

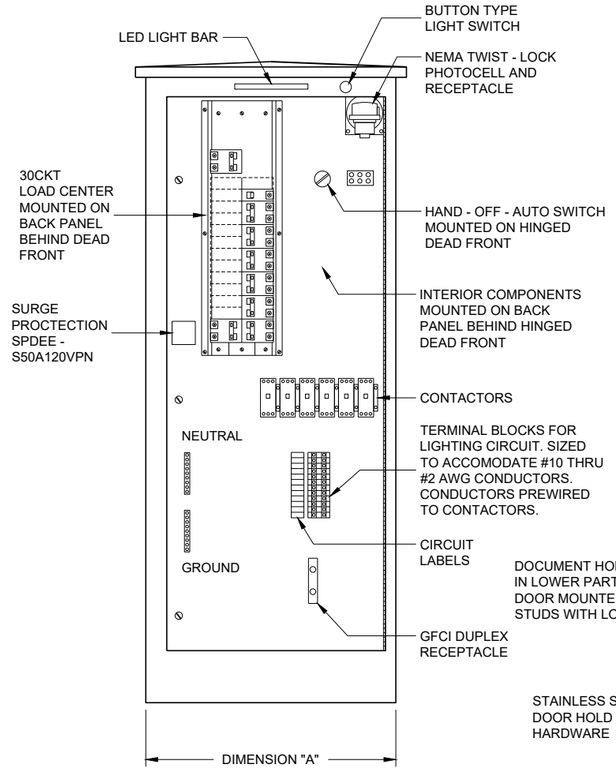
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

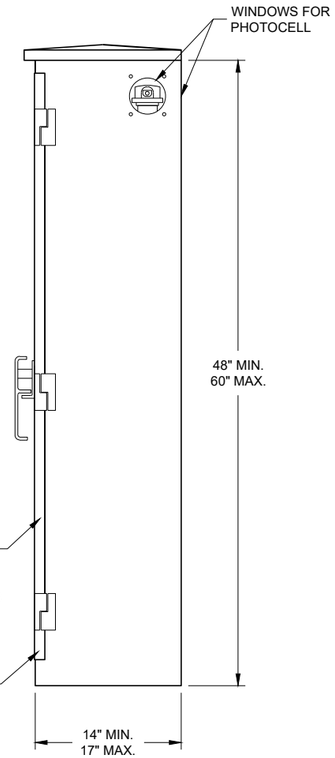
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FRONT INTERIOR ELEVATION



SIDE VIEW



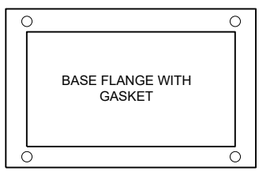
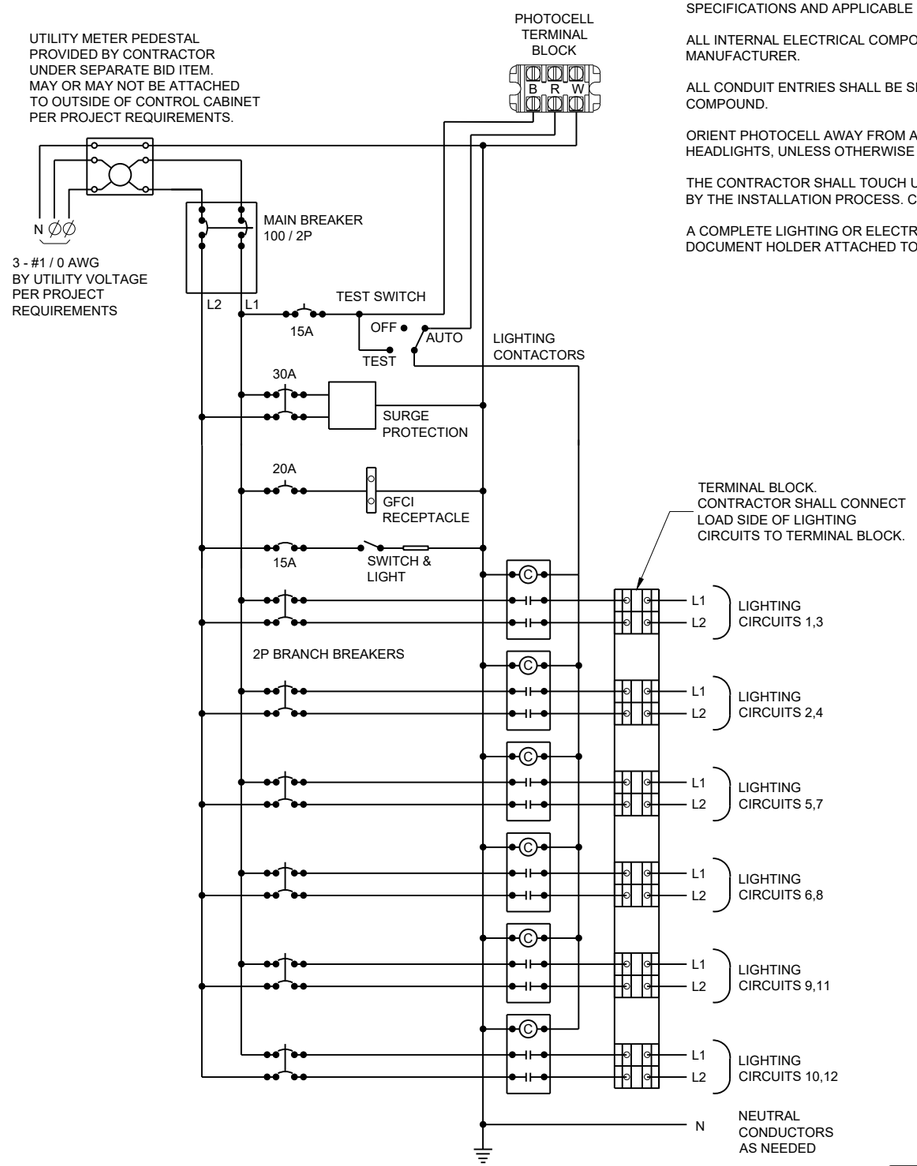


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET
120 / 240 VOLT

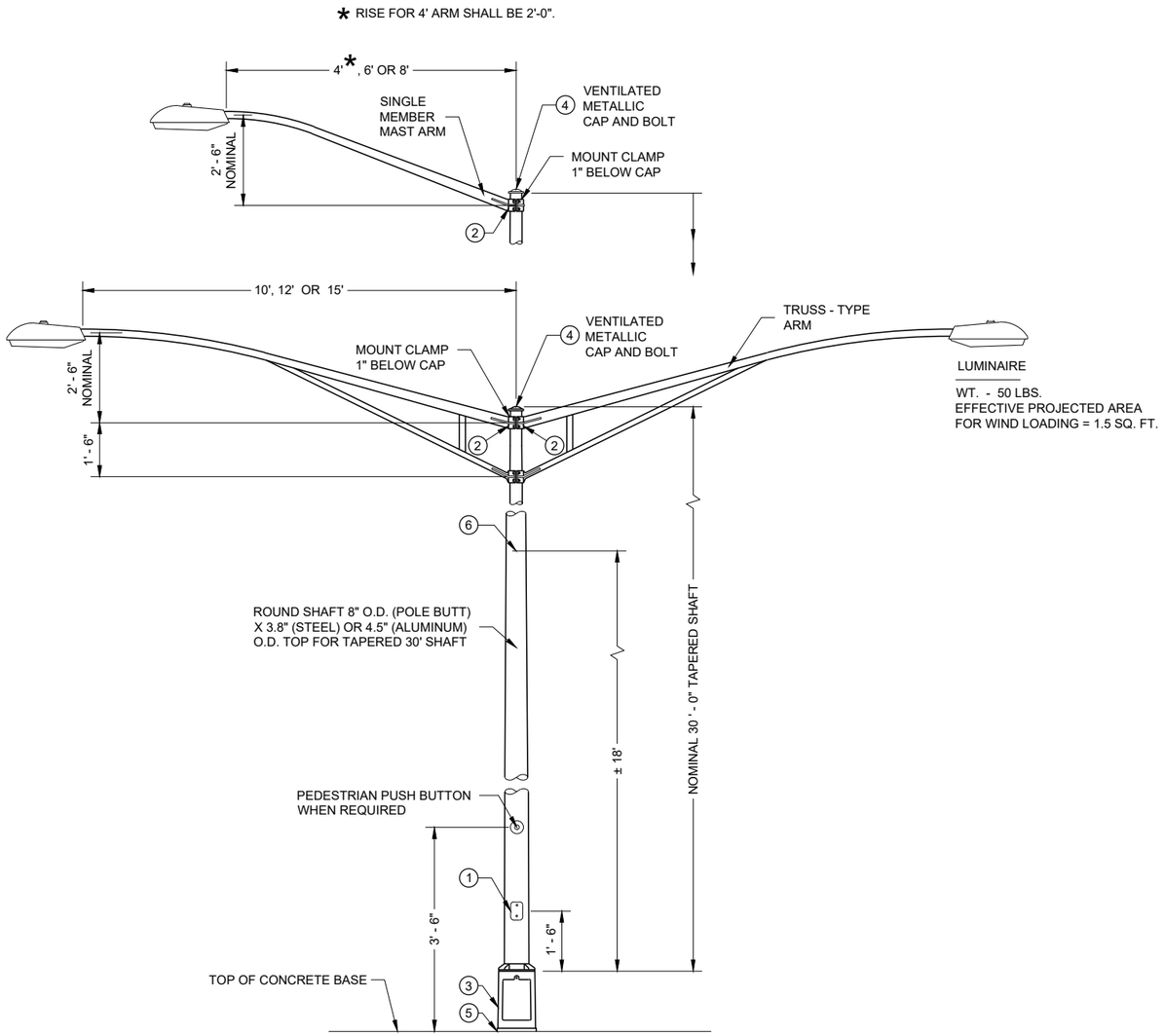
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November 2018
DATE

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TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

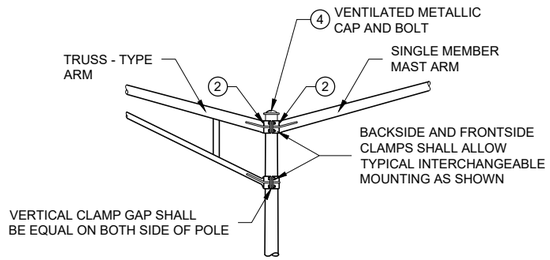
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

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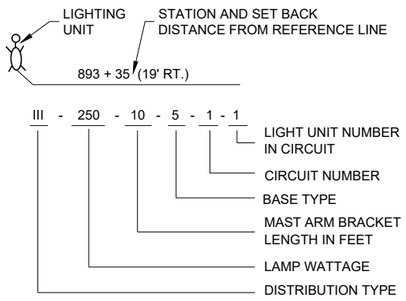
SDD 09E01 - 15d

GENERAL NOTES

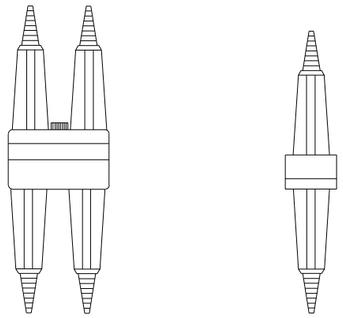
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

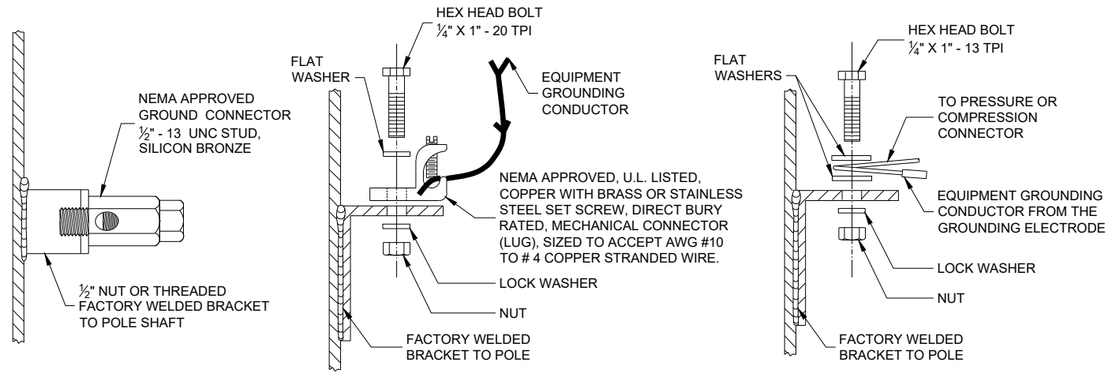


LIGHTING UNIT CODE
(TYPICAL)

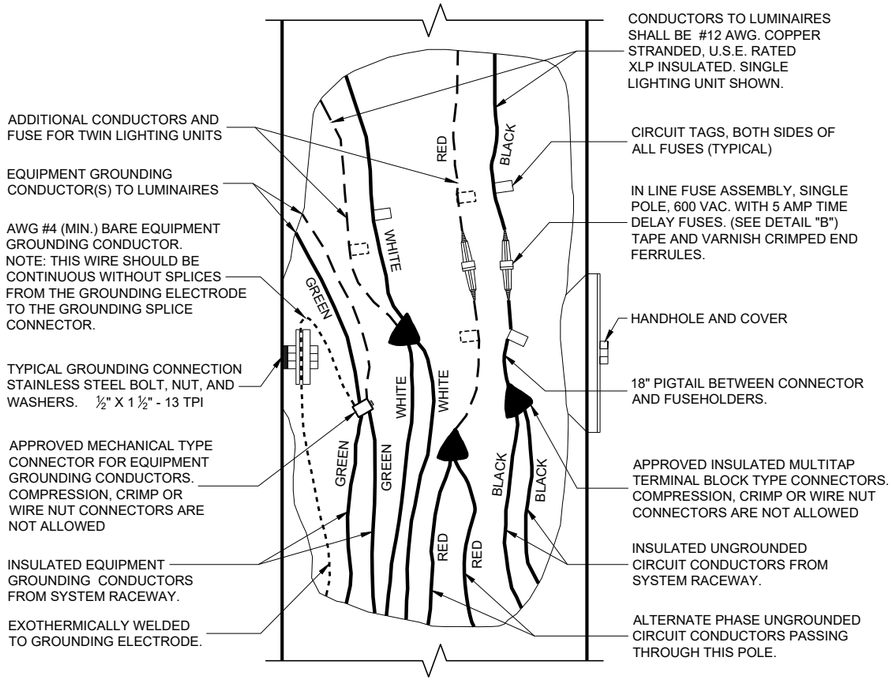


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

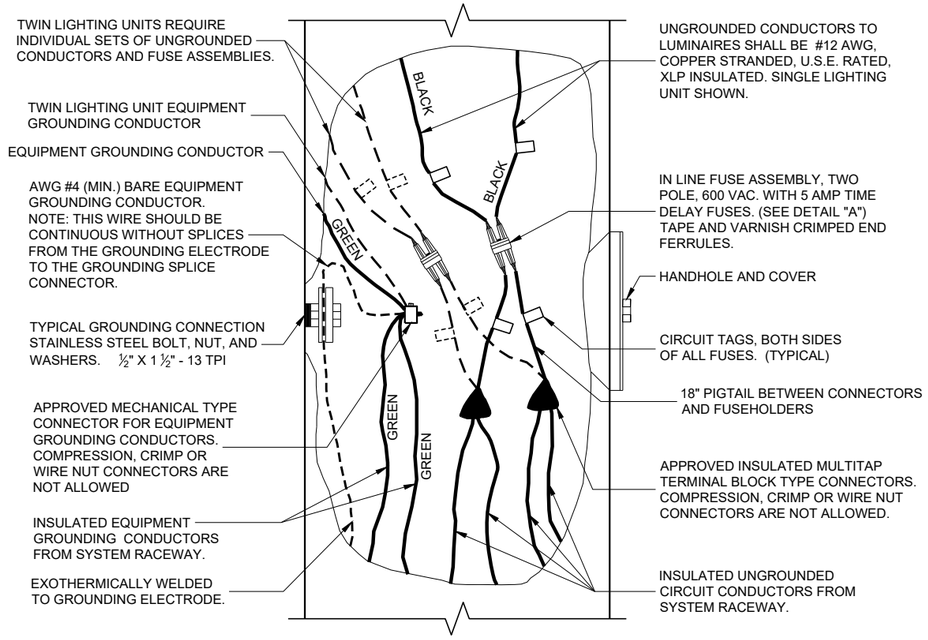
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

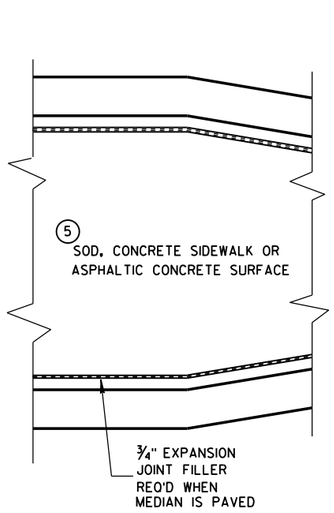
NON - FREEWAY LIGHTING UNIT POLE WIRING

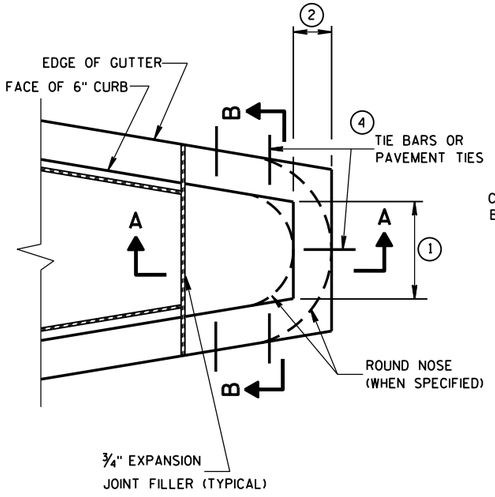
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

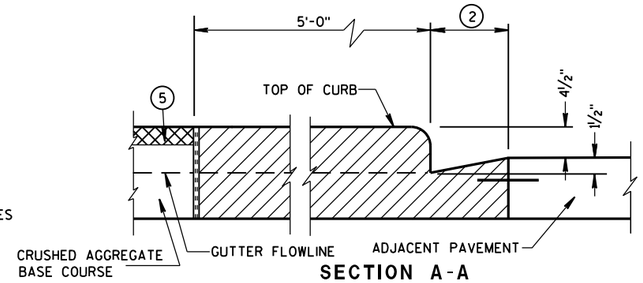
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November 2018
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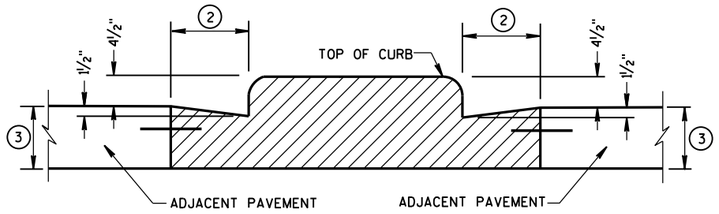
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SDD 09E03 - 06







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

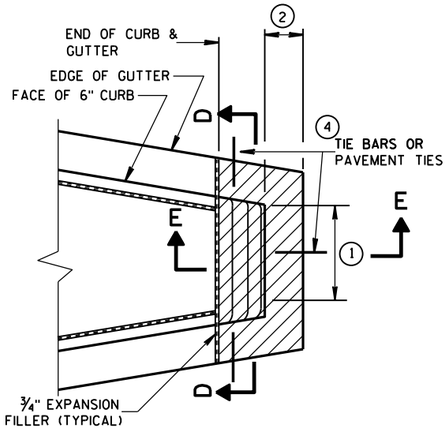
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

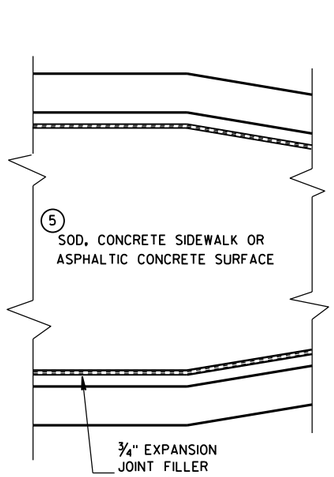
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

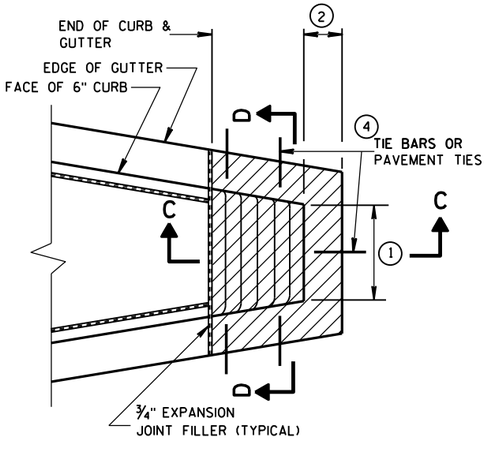
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

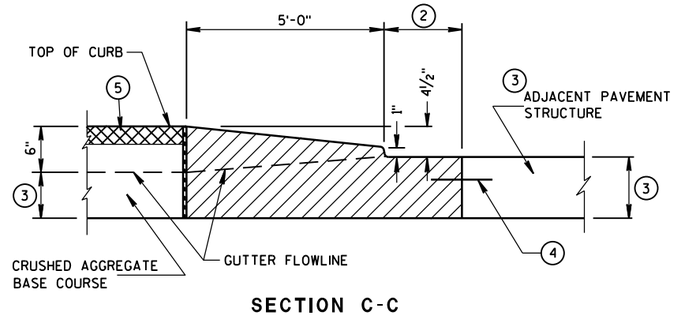
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

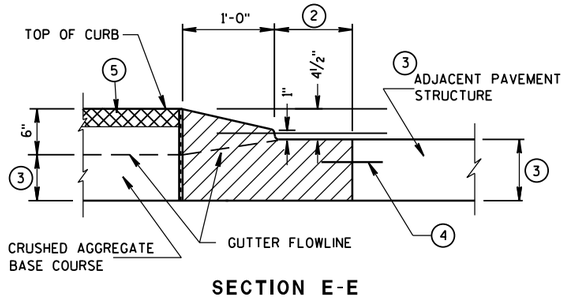








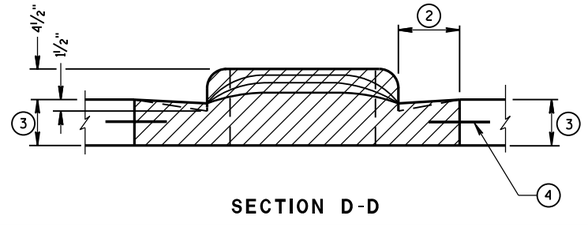
SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

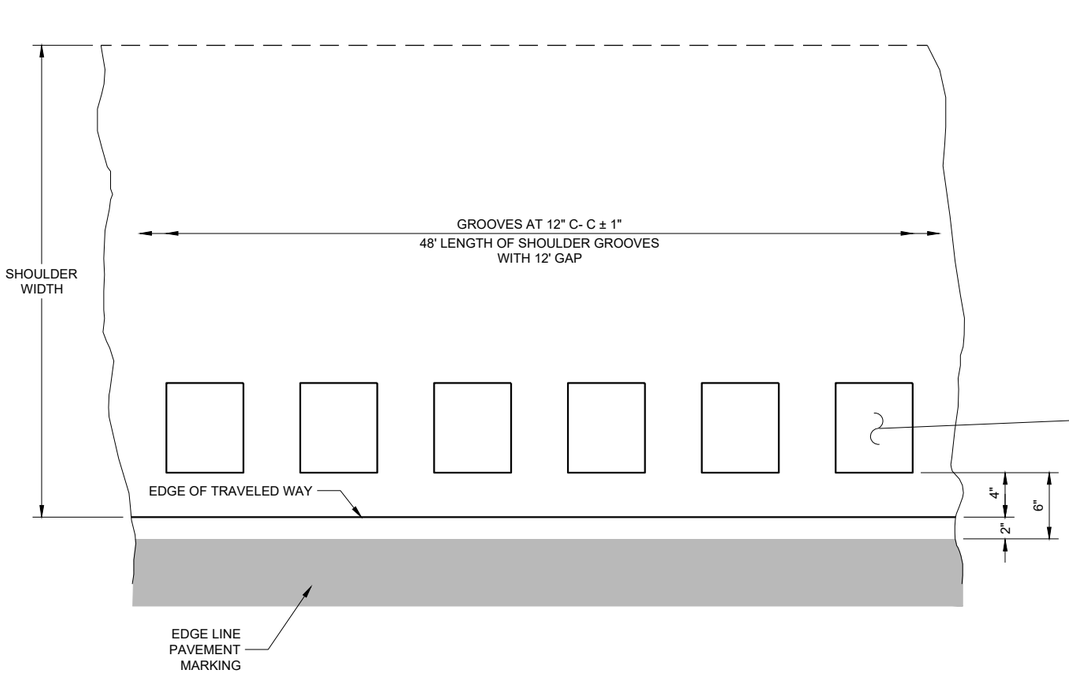
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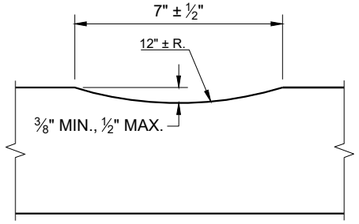
S.D.D. 11 B 2-2

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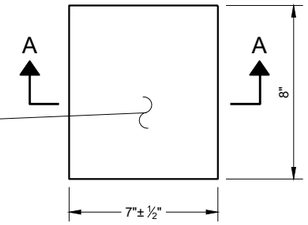
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PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A

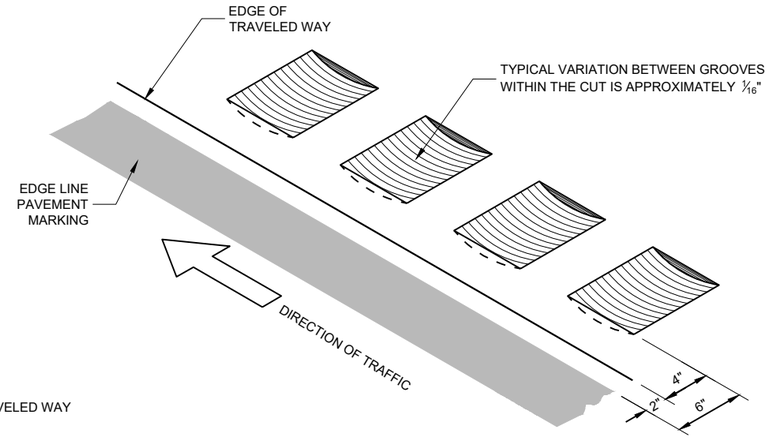


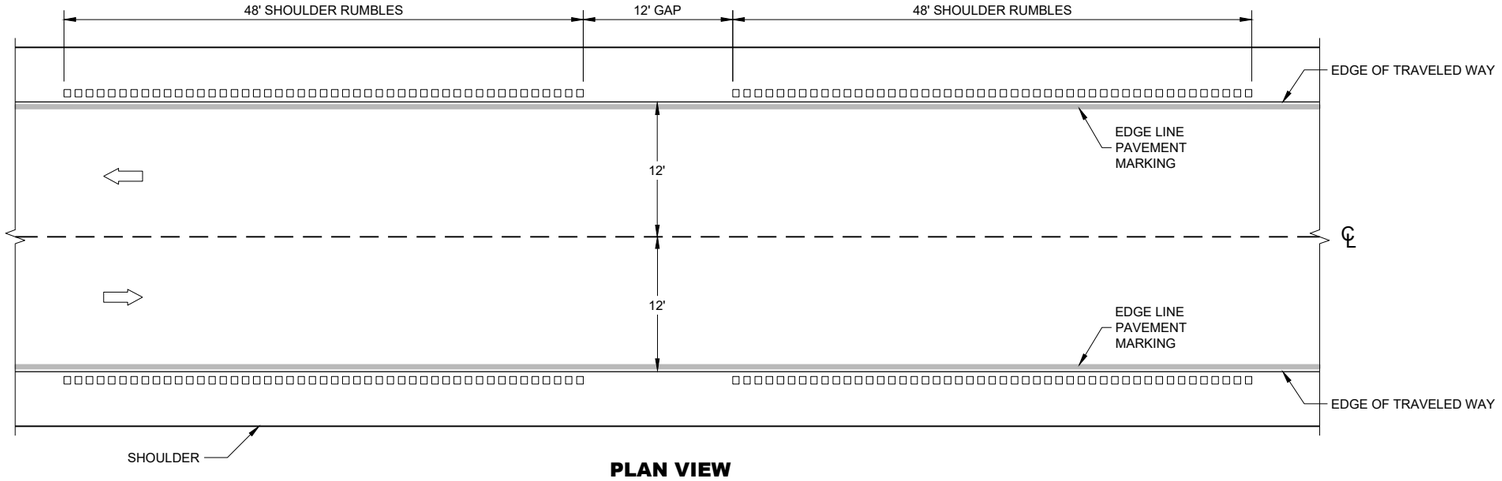
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.





PLAN VIEW

SHOULDER RUMBLE STRIPS - ASPHALT

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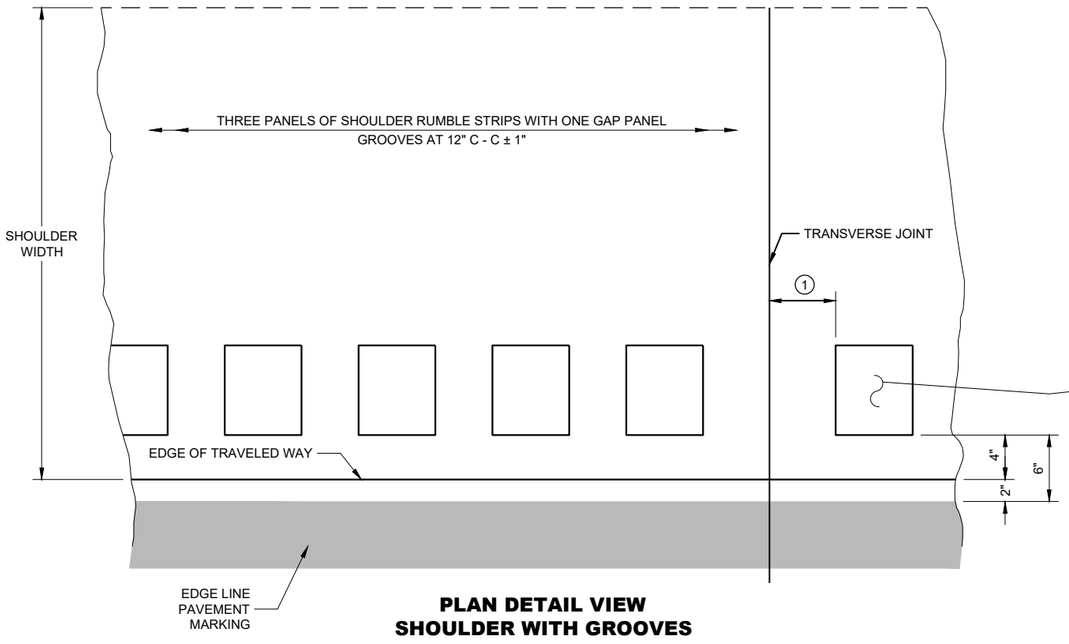
SDD 13A10 - 03a

SHOULDER RUMBLE STRIPS ASPHALT

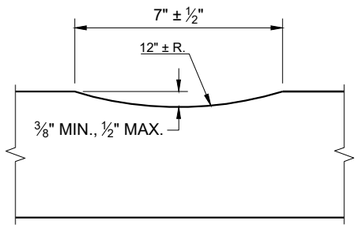
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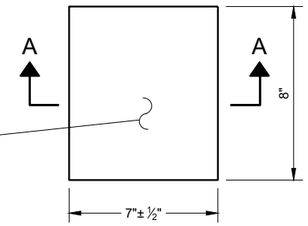
SDD 13A10 - 03a



PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A



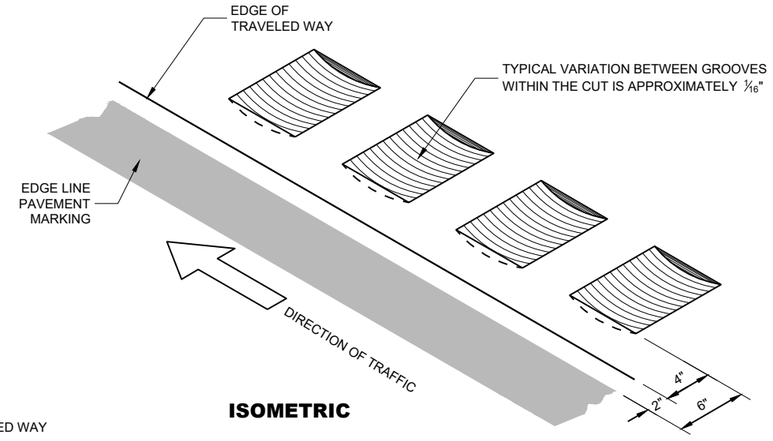
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

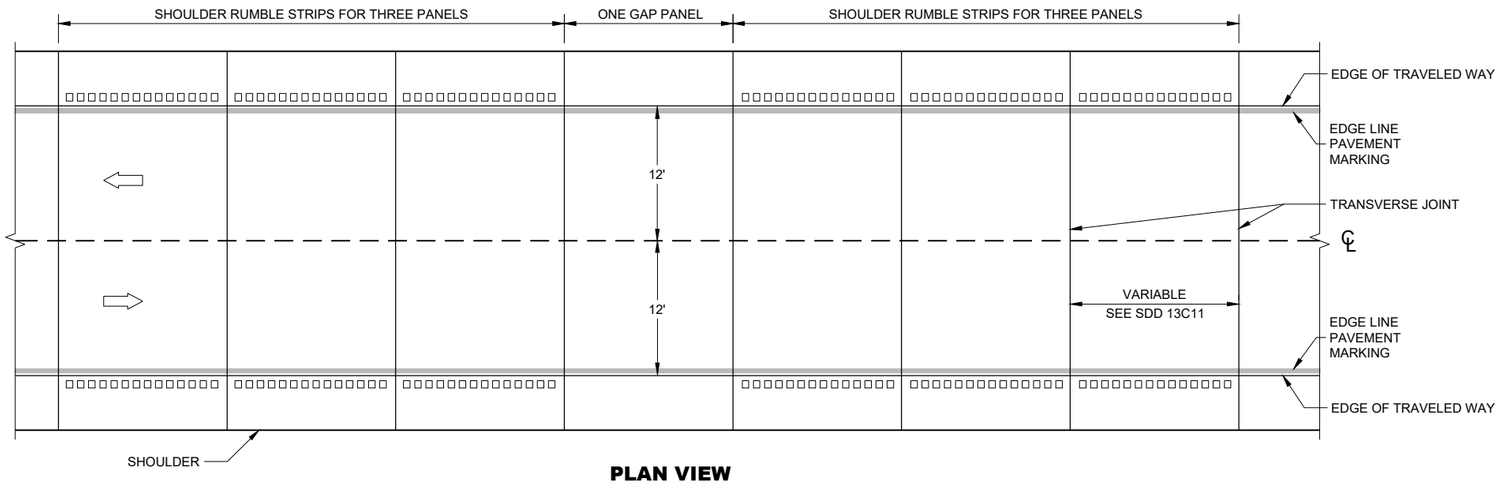
DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

(1) FOR CONCRETE PAVEMENTS, RUMBLE STRIPS SHALL BE A MINIMUM OF 6 INCHES FROM TRANSVERSE JOINTS.



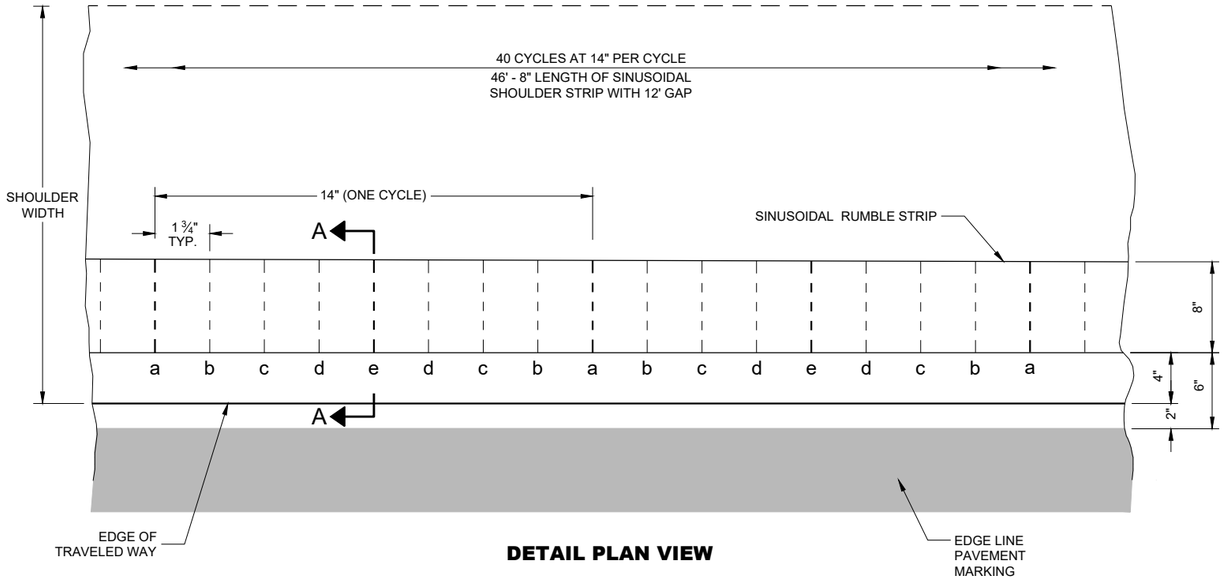
ISOMETRIC



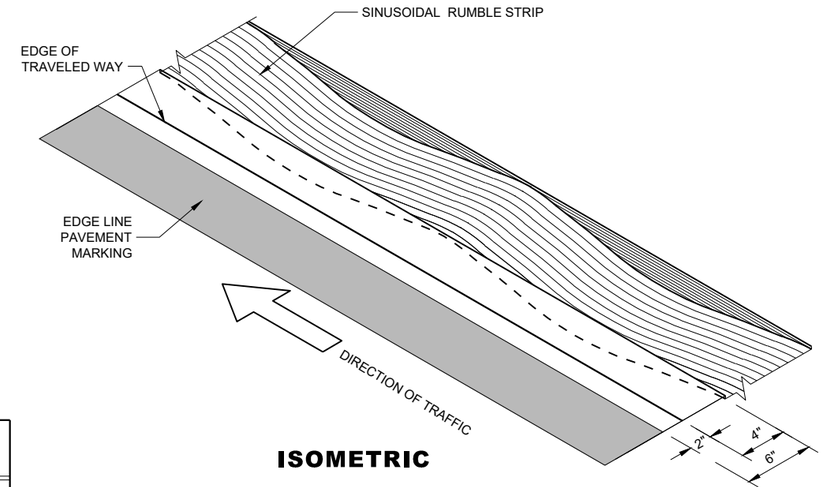
PLAN VIEW

SHOULDER RUMBLE STRIPS - CONCRETE

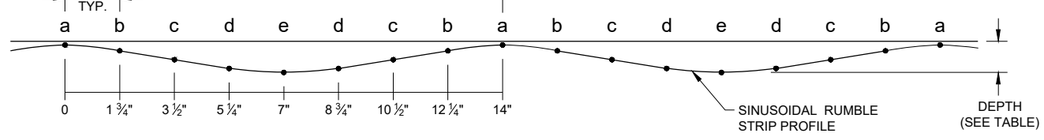
6
SDD 13A10 - 03b



DETAIL PLAN VIEW

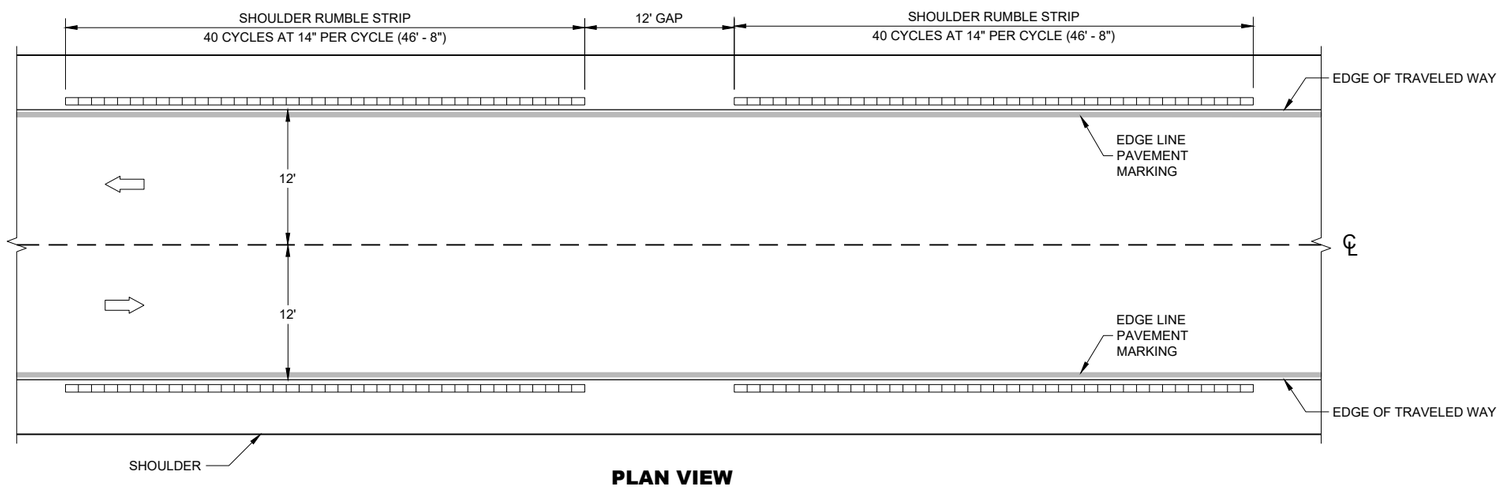


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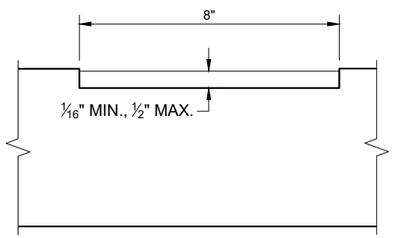


PROFILE VIEW

LOCATION	DEPTH (INCHES)
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"



PLAN VIEW



SECTION A - A

GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER RUMBLE STRIPS MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

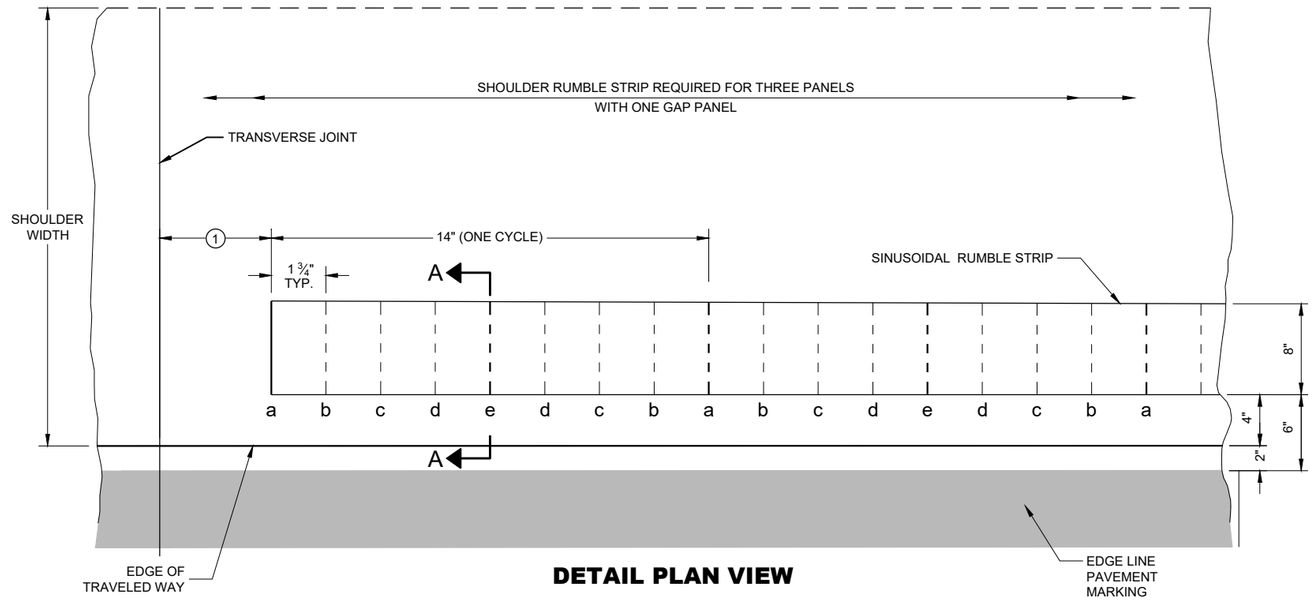
SHOULDER RUMBLE STRIPS - ASPHALT, SINUSOIDAL

SHOULDER RUMBLE STRIPS - ASPHALT, SINUSOIDAL

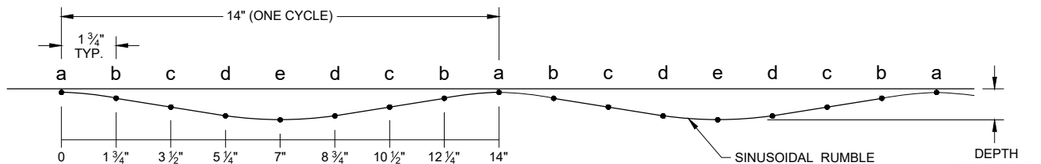
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13A10 - 03c



DETAIL PLAN VIEW



DETAIL PROFILE VIEW

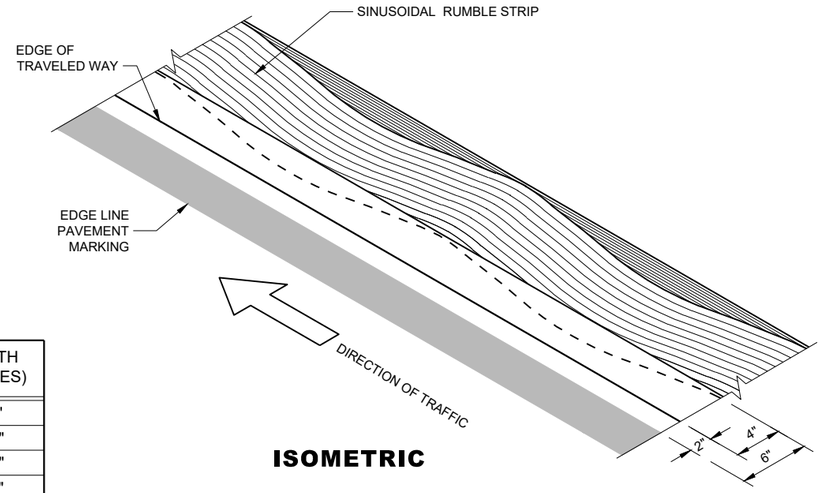
LOCATION	DEPTH (INCHES)
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"

GENERAL NOTES

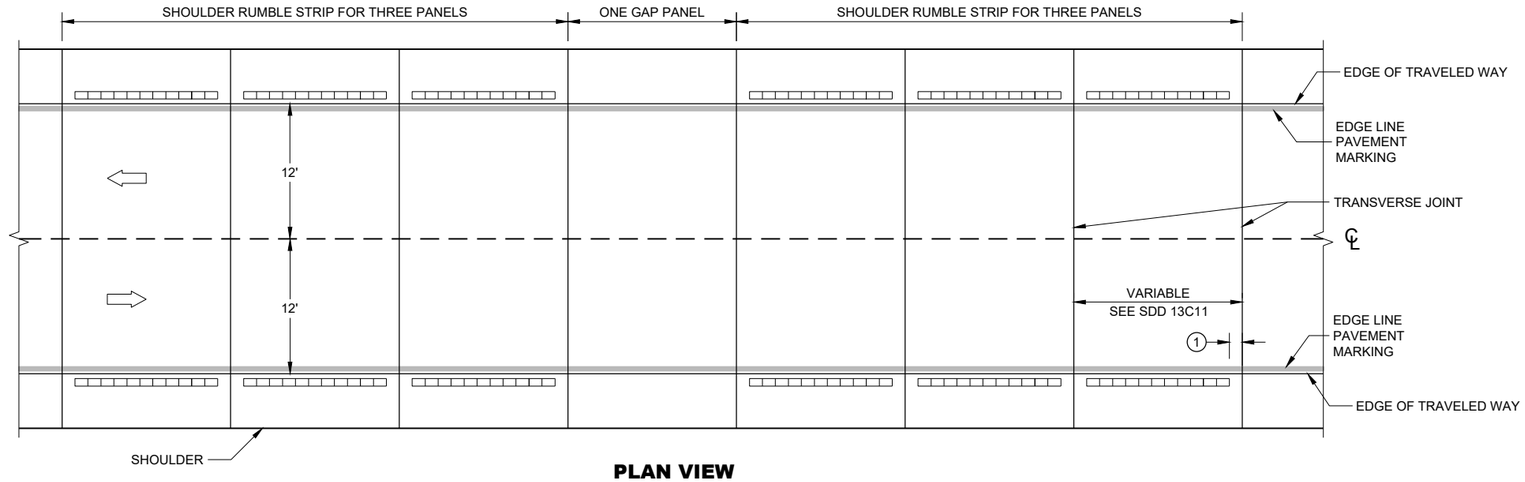
DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER RUMBLE STRIPS MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

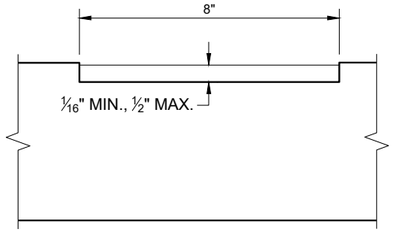
(1) FOR CONCRETE PAVEMENTS, RUMBLE STRIPS SHALL BE A MINIMUM OF 6 INCHES AWAY FROM A TRANSVERSE JOINT.



ISOMETRIC



PLAN VIEW



SECTION A - A

SHOULDER RUMBLE STRIPS - CONCRETE, SINUSOIDAL

SHOULDER RUMBLE STRIPS - CONCRETE, SINUSOIDAL

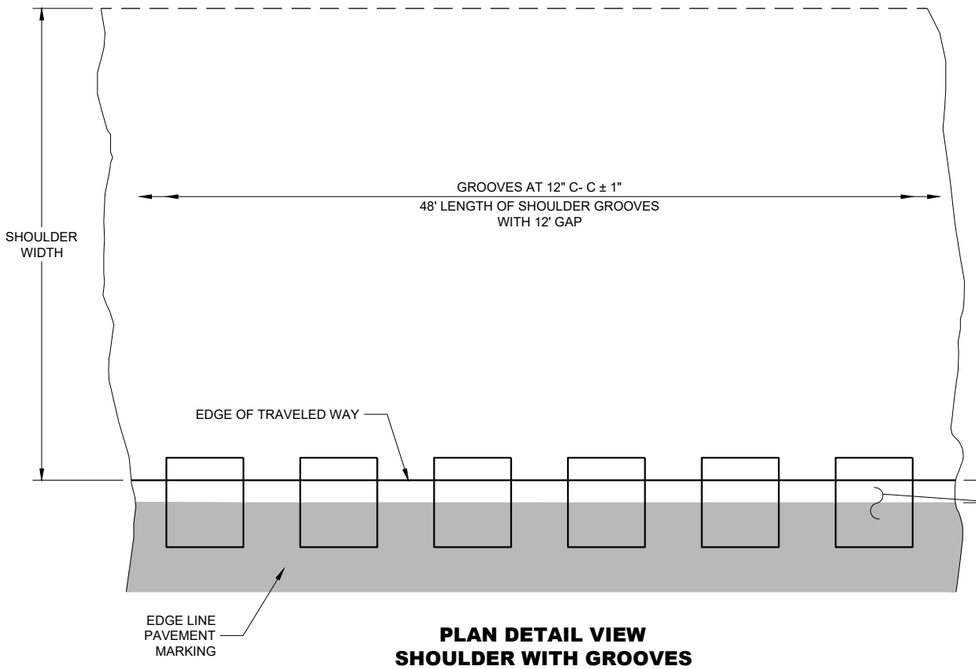
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 13A10 - 03d

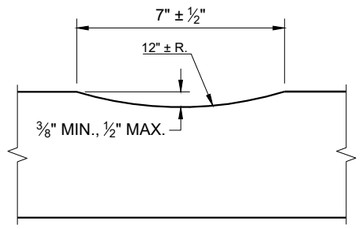
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

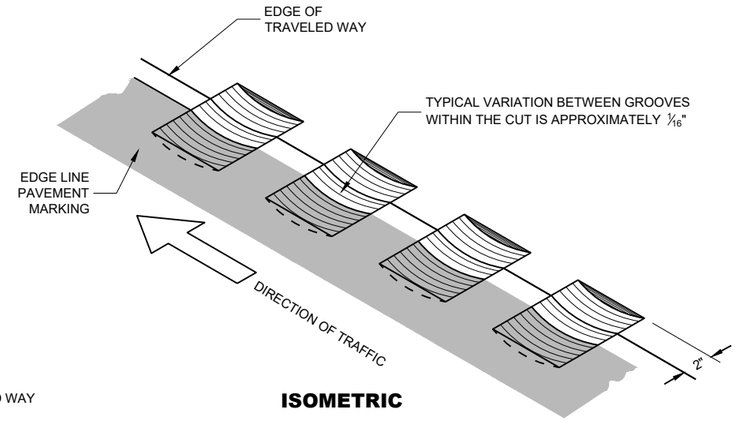


PLAN DETAIL VIEW
SHOULDER WITH GROOVES

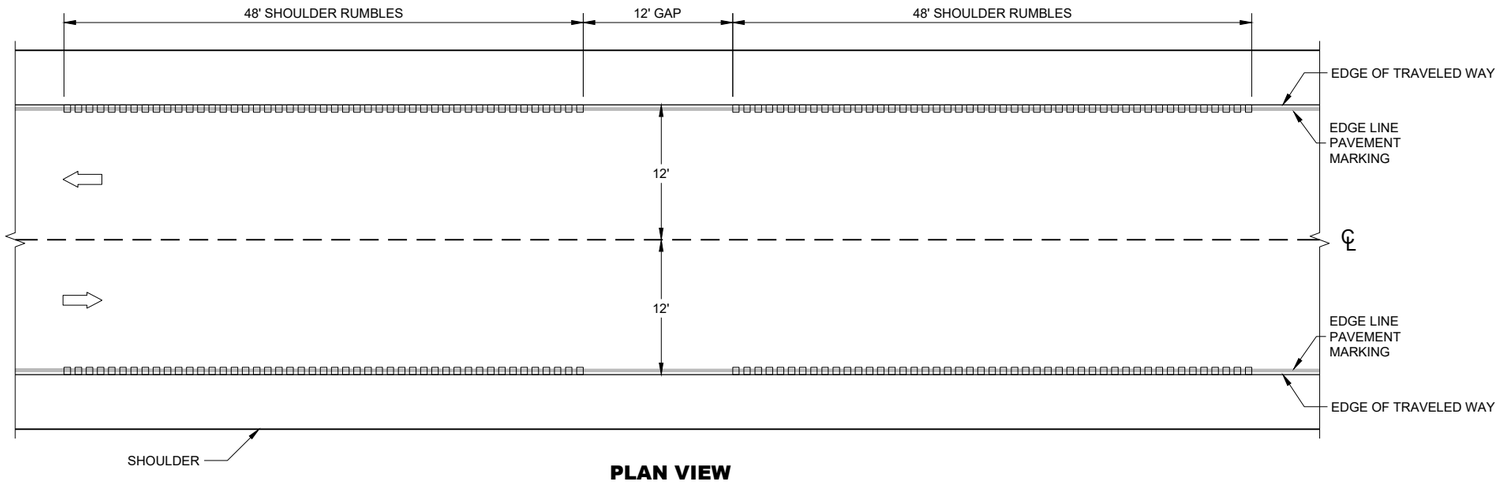


SECTION A - A

PLAN VIEW
(SINGLE GROOVE)



ISOMETRIC



PLAN VIEW

EDGE LINE RUMBLE STRIPS - ASPHALT

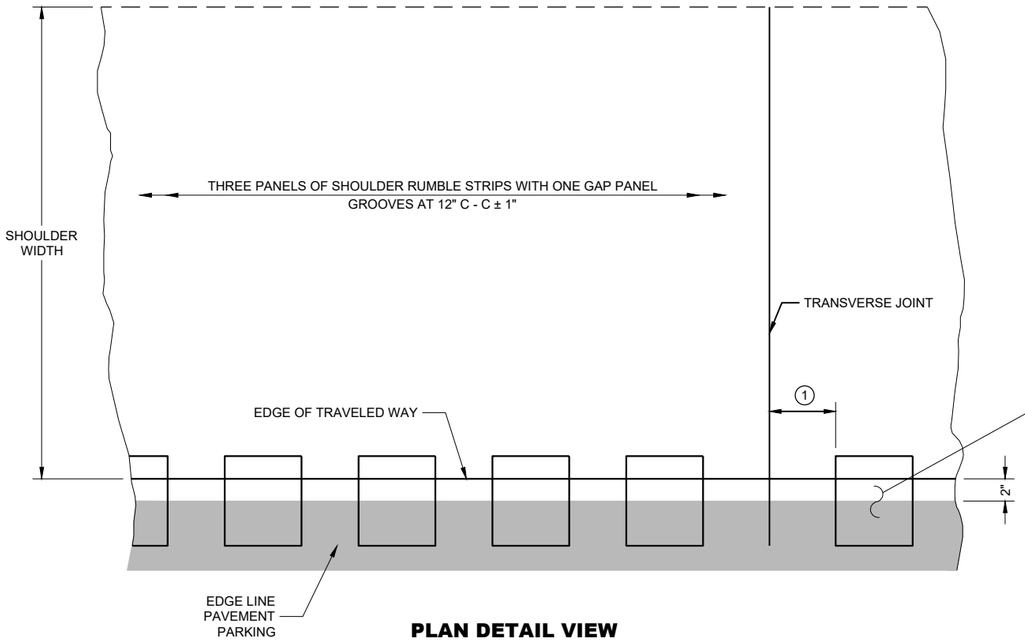
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SDD 13A10 - 03e

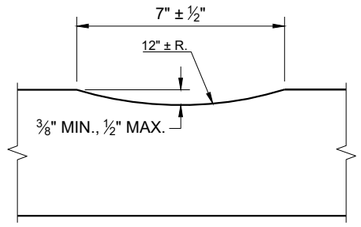
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SDD13A10 - 03e

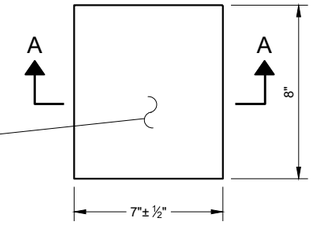
EDGE LINE RUMBLE STRIPS - ASPHALT



PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A



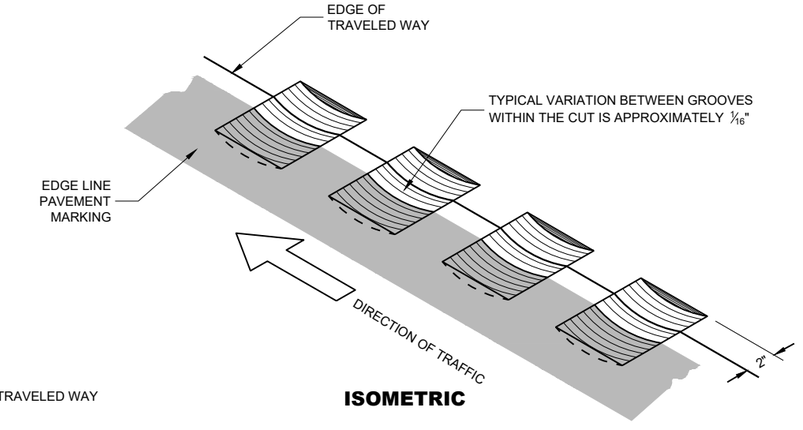
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

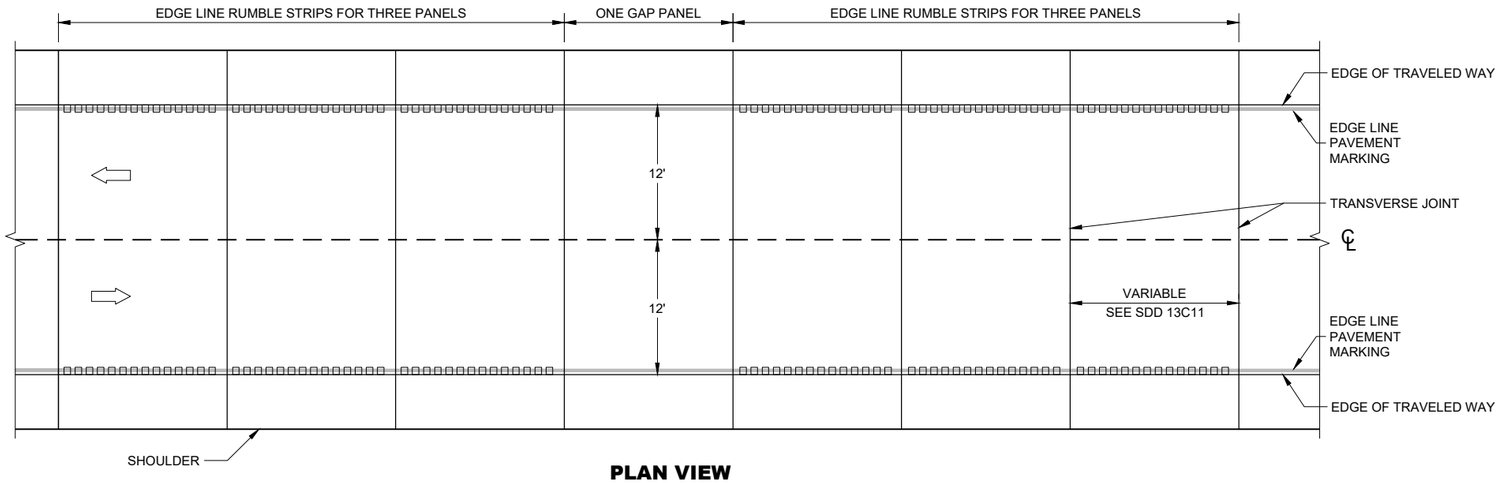
DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

(1) FOR CONCRETE PAVEMENTS, RUMBLE STRIPS SHALL BE A MINIMUM OF 6 INCHES AWAY FROM A TRANSVERSE JOINT.



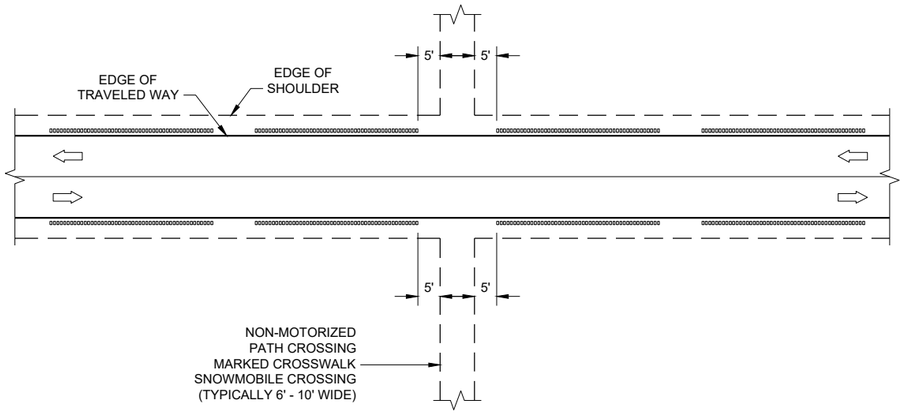
ISOMETRIC



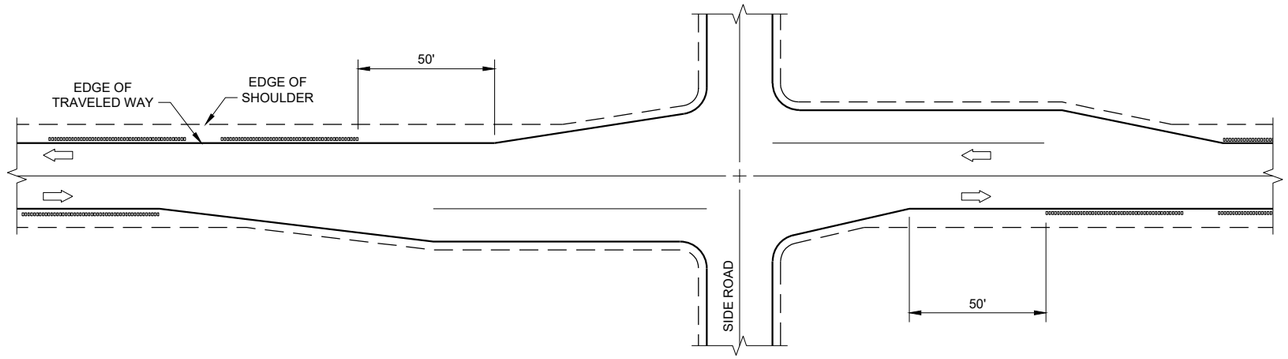
PLAN VIEW

EDGE LINE RUMBLE STRIPS - CONCRETE

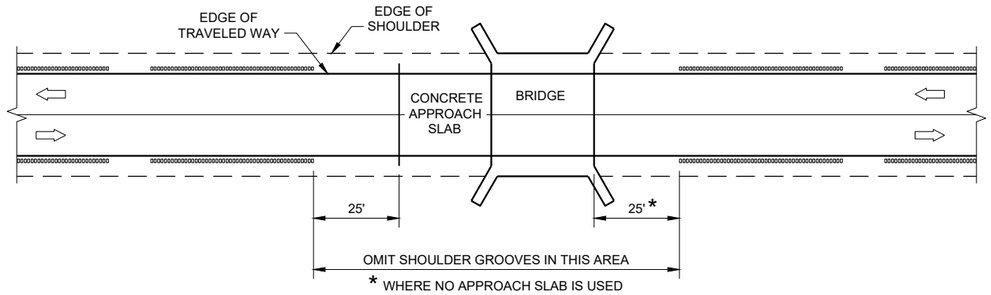
6
SDD 13A10 - 03f



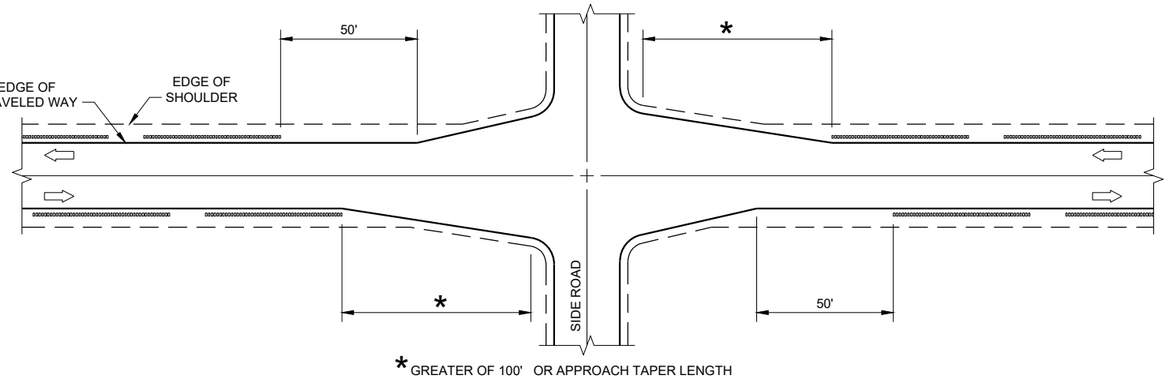
GROOVES AT MISCELLANEOUS CROSSINGS



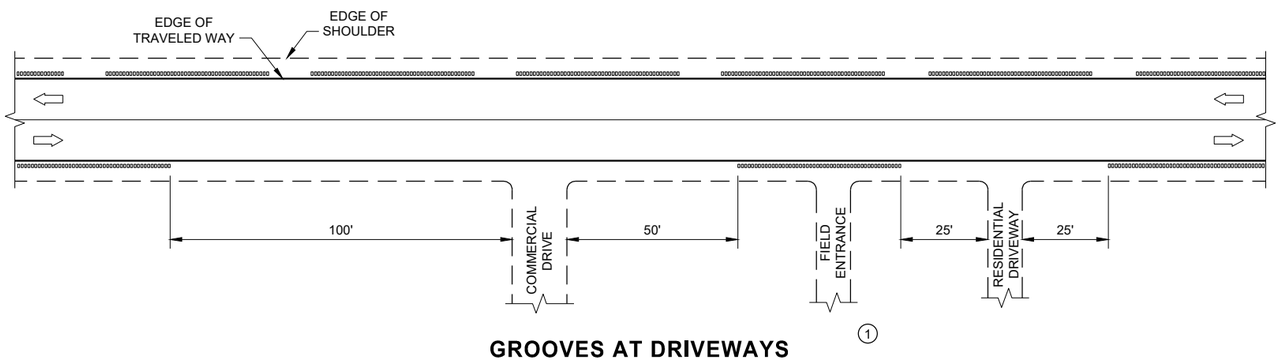
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

GENERAL NOTES

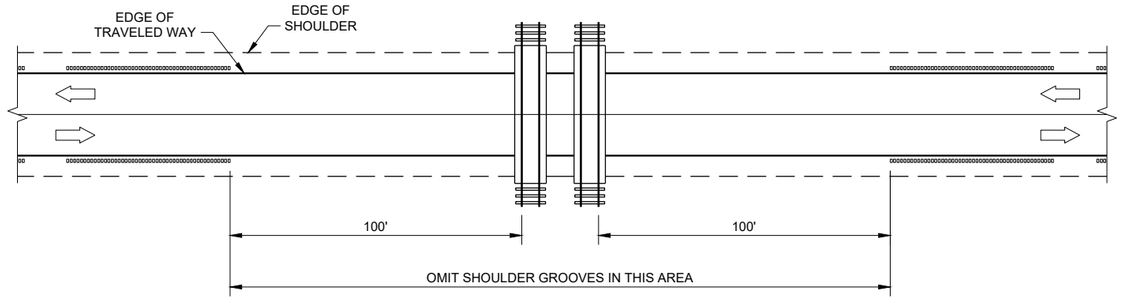
① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

SHOULDER AND EDGE LINE RUMBLE STRIPS CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS

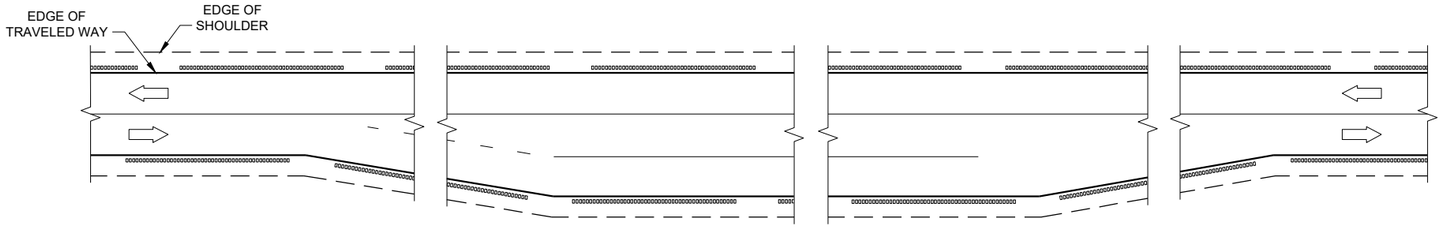
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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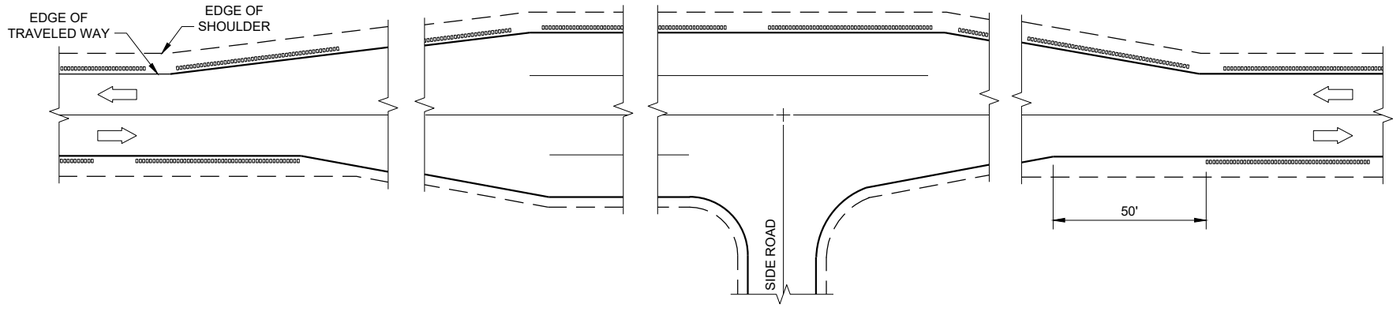
SDD 13A10 - 03g



GROOVES AT RAILROADS



GROOVES AT PASSING AND CLIMBING LANES



GROOVES AT BYPASS LANES

6

SDD 13A10 - 03h

SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

/S/ John Jenkins
ROADWAY STANDARDS DEVE ENGINEER

FHWA

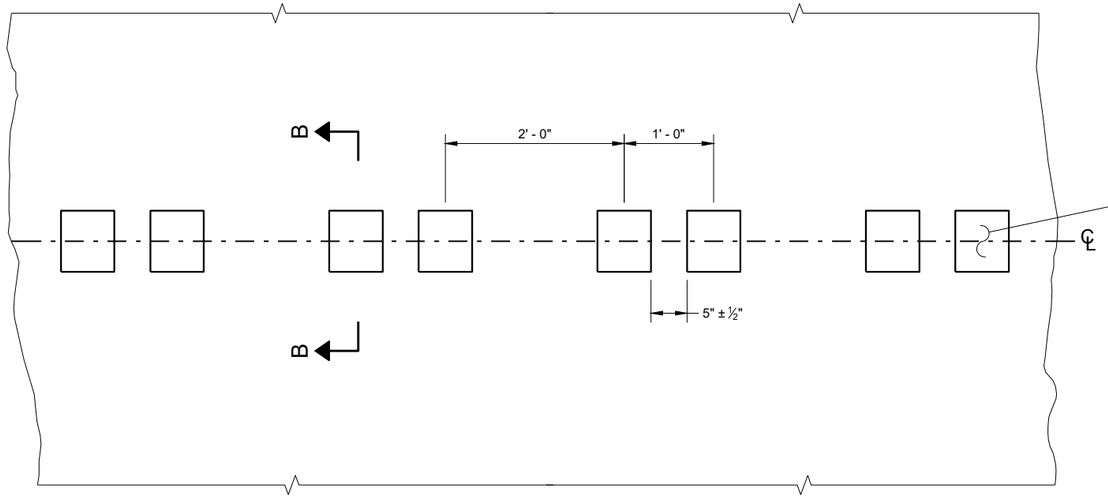
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SDD 13A10 - 03h

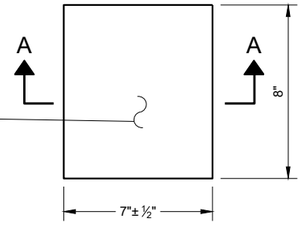
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A11 SHEETS "d" AND "e".

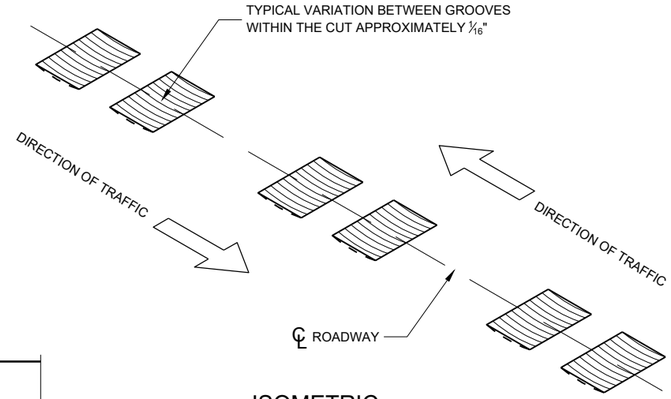
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



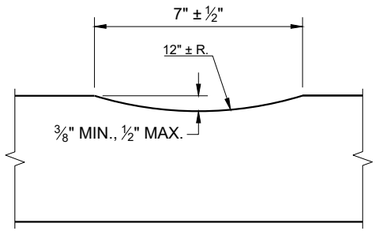
PLAN DETAIL VIEW



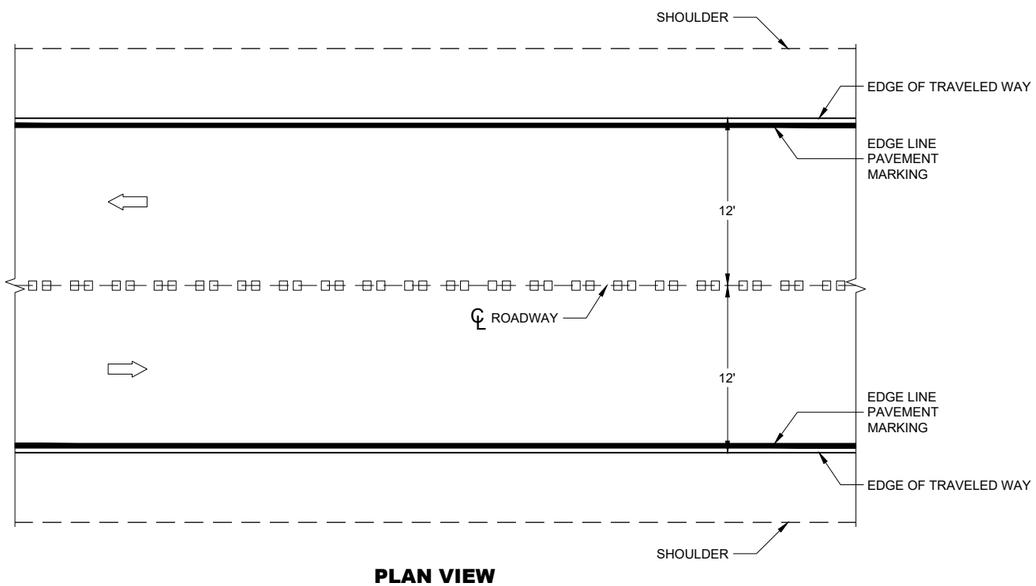
PLAN VIEW
(SINGLE GROOVE)



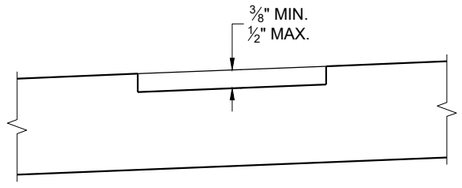
ISOMETRIC



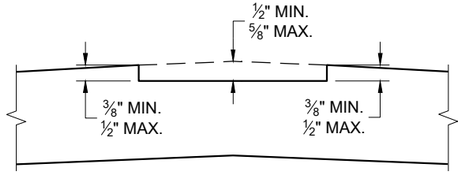
SECTION A - A



PLAN VIEW



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY

CENTERLINE RUMBLE STRIPS - ASPHALT

CENTERLINE RUMBLE STRIPS - ASPHALT

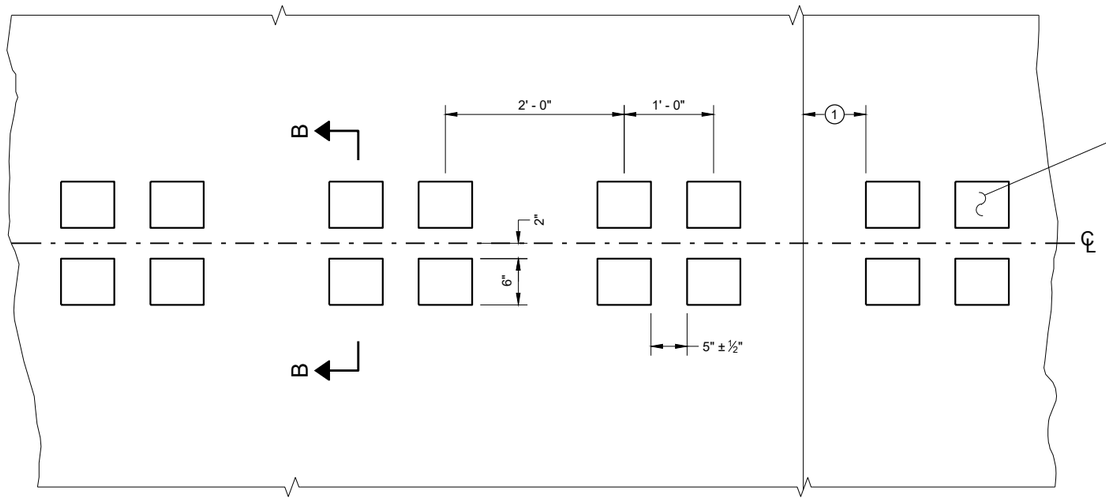
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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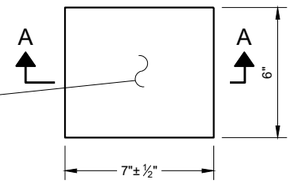
SDD 13A11 - 04a

6

SDD 13A11 - 04a



PLAN DETAIL VIEW



PLAN VIEW
(SINGLE GROOVE)

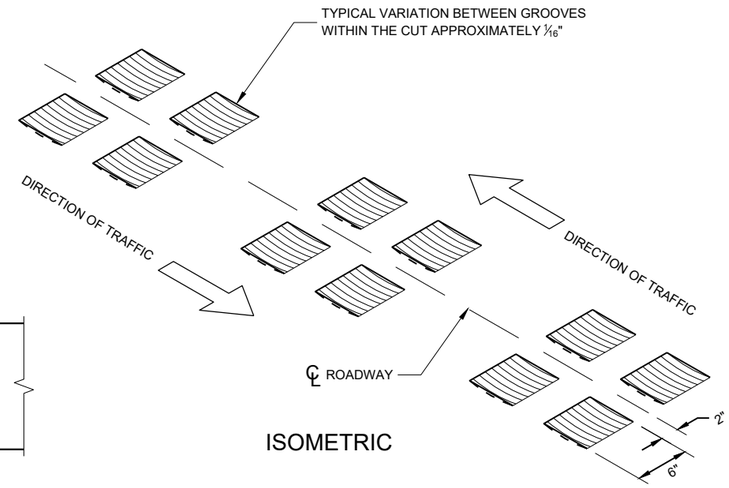
GENERAL NOTES

SDD 13A11, SHEET "d" SHOWS THE LOCATION OF RUMBLE STRIPS AT INTERSECTIONS, INTERSECTIONS WITH LEFT TURN LANES, BRIDGES, COMMERCIAL AND RESIDENTIAL DRIVEWAYS AND RAILROAD CROSSINGS.

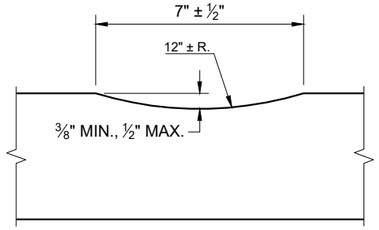
TEMPORARY PAVEMENT MARKINGS ARE TYPICALLY PLACED PRIOR TO RUMBLE STRIP INSTALLATION. PERMANENT MARKINGS ARE INSTALLED AFTER RUMBLE STRIP INSTALLATION.

CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

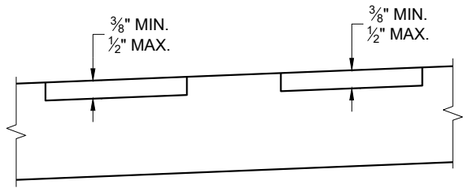
(1) CONCRETE PAVEMENT RUMBLE STRIPS SHALL BE A MINIMUM OF 6 INCHES FROM TRANSVERSE JOINTS.



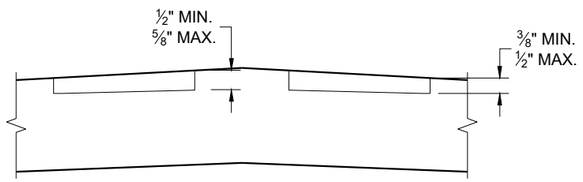
ISOMETRIC



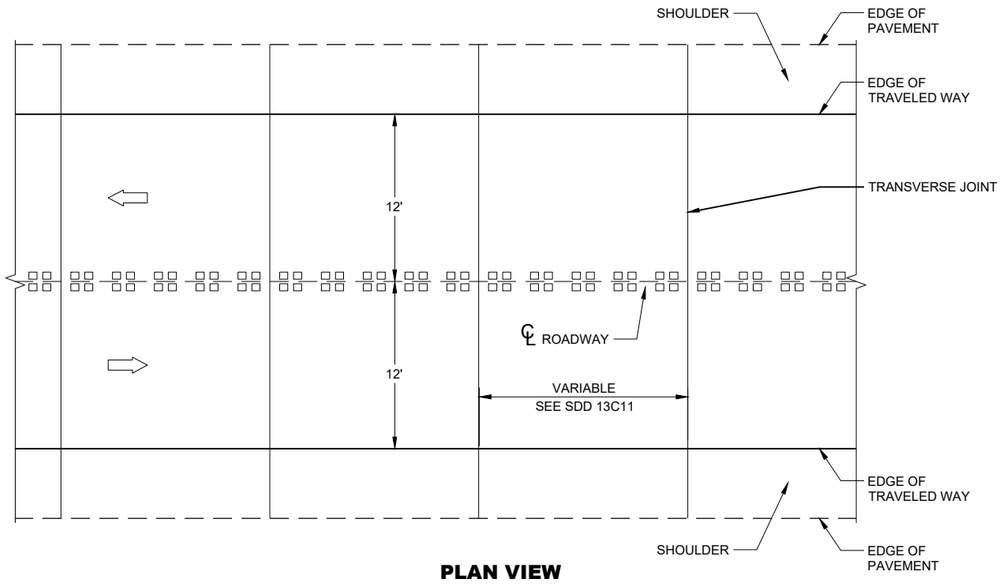
SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



PLAN VIEW

CENTERLINE RUMBLE STRIPS - CONCRETE

CENTERLINE RUMBLE STRIPS - CONCRETE

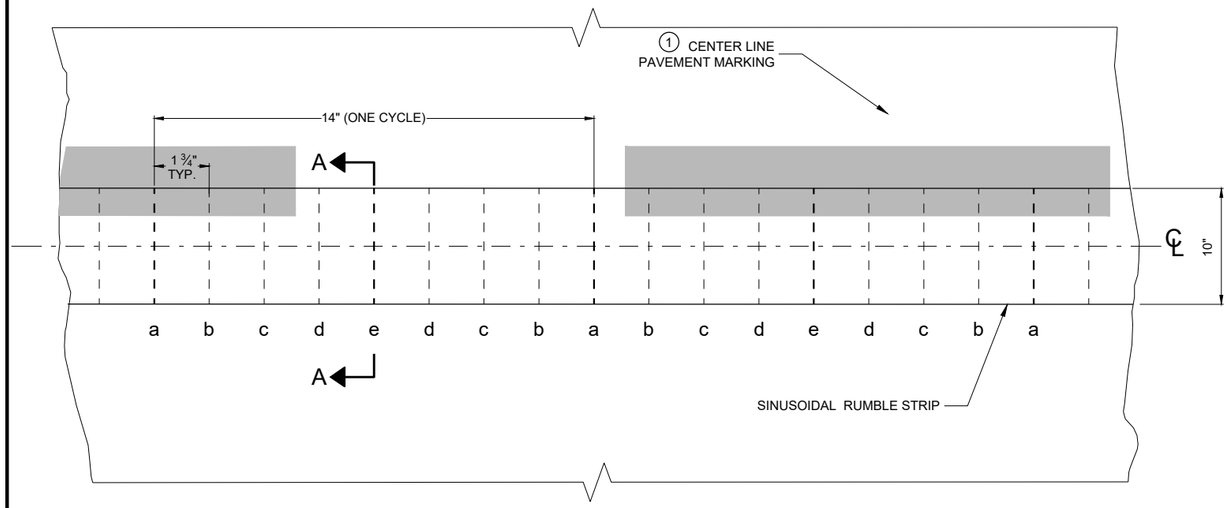
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

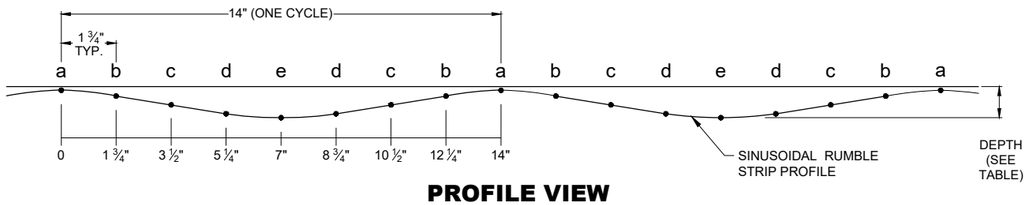
SDD 13A11 - 04b

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SDD 13A11 - 04b



PLAN DETAIL VIEW



PROFILE VIEW
SINUSOIDAL CENTERLINE RUMBLE STRIPS

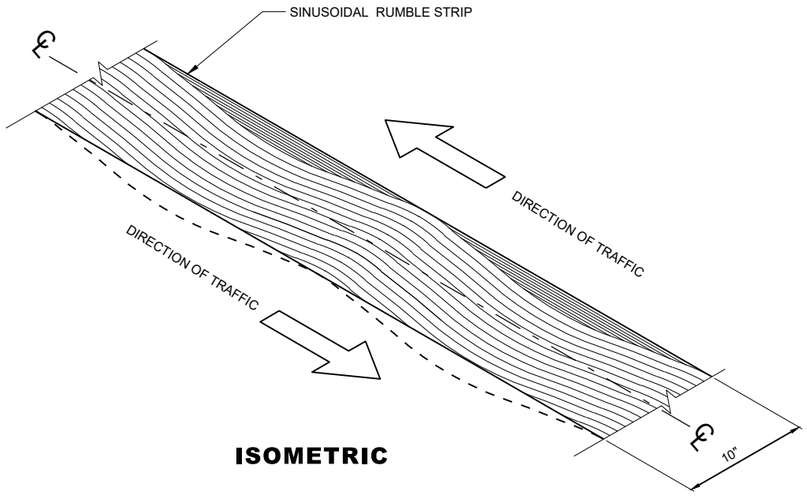
LOCATION	DEPTH (INCHES)
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"

GENERAL NOTES

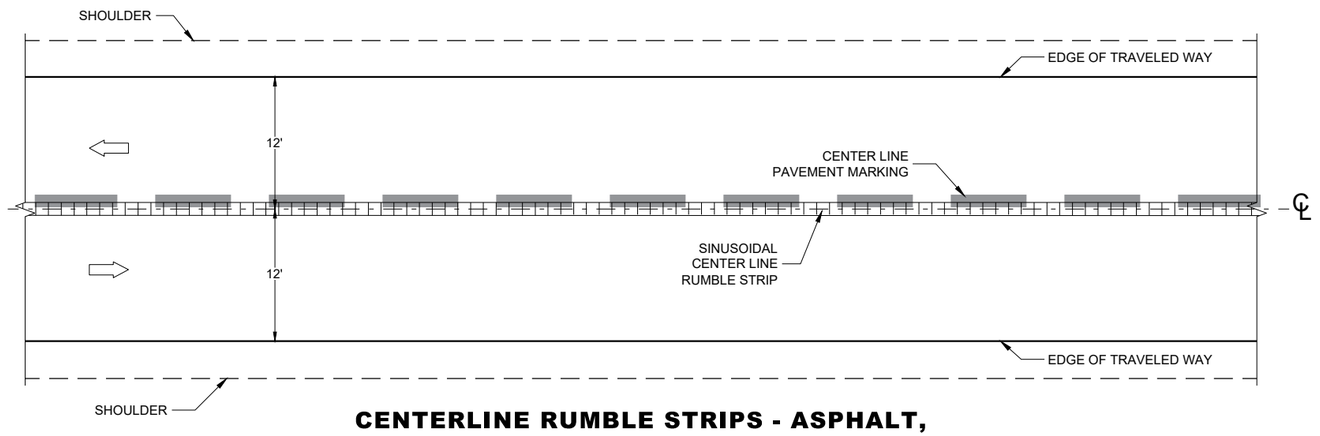
SDD 13A11, SHEET "d" SHOWS THE LOCATIONS OF RUMBLE STRIPS AT INTERSECTIONS, INTERSECTIONS WITH LEFT TURN LANES, BRIDGES, COMMERCIAL AND RESIDENTIAL DRIVEWAYS AND RAILROAD CROSSINGS.

SHOULDER RUMBLE STRIPS MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

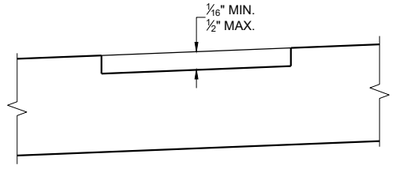
(1) CENTERLINE PAVEMENT MARKINGS SHALL BE PLACED PARTIALLY IN RUMBLE STRIP GROOVE AND PARTIALLY OUT OF THE RUMBLE STRIP GROOVE.



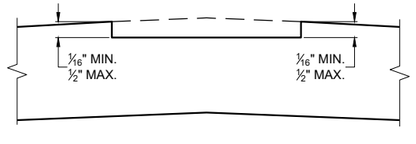
ISOMETRIC



CENTERLINE RUMBLE STRIPS - ASPHALT, SINUSOIDAL



SECTION A - A
SUPERELEVATED ROADWAY



SECTION A - A
CROWNED ROADWAY

CENTERLINE RUMBLE STRIPS - ASPHALT, SINUSOIDAL

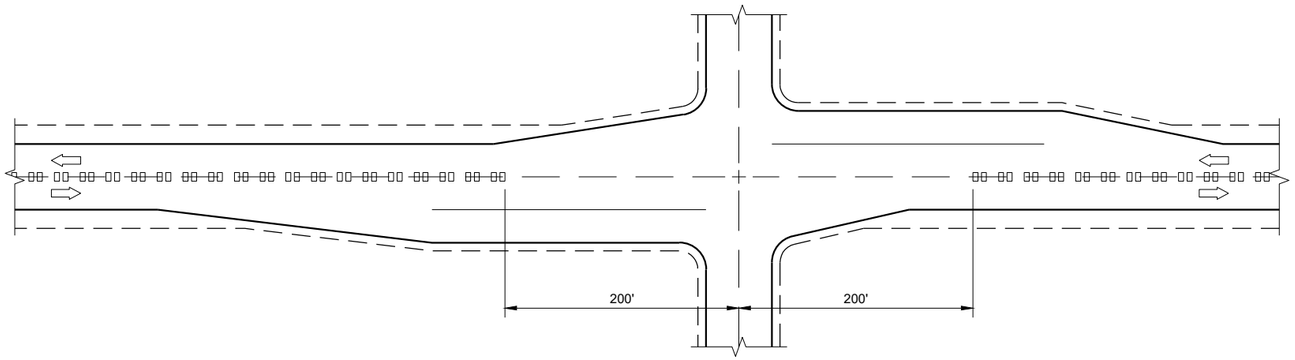
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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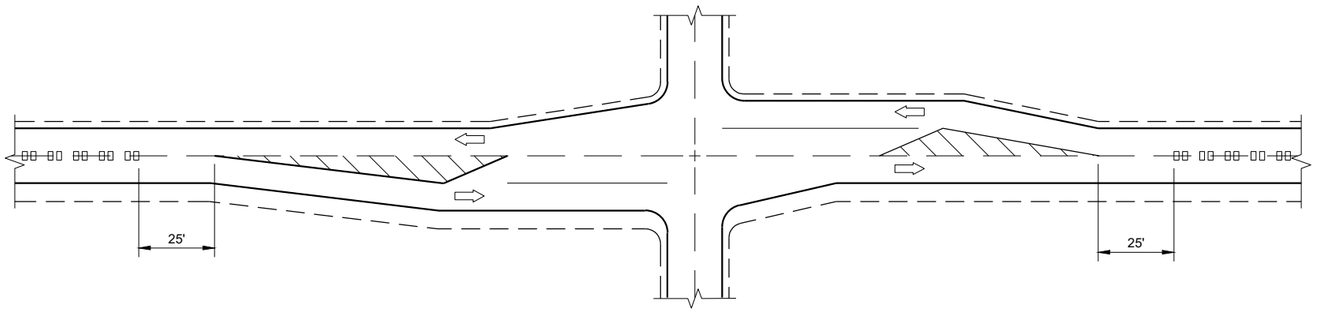
SDD 13A11 - 04c

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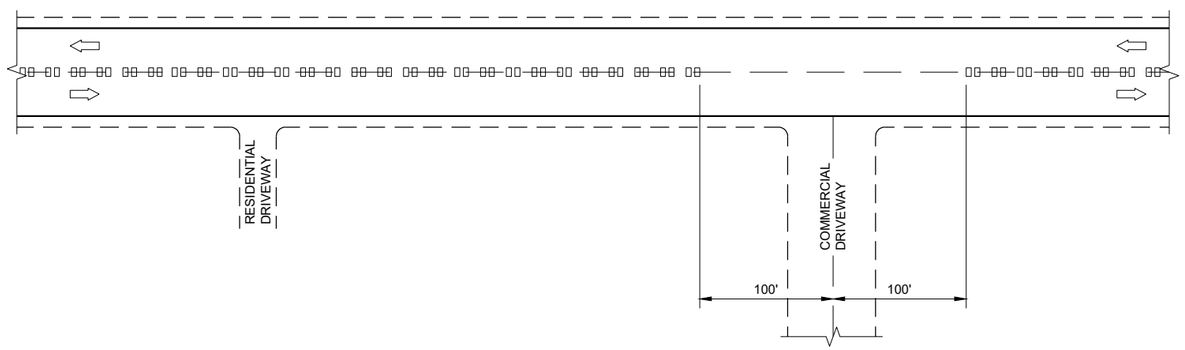
SDD 13A11 - 04c



CENTERLINE GROOVES AT INTERSECTIONS



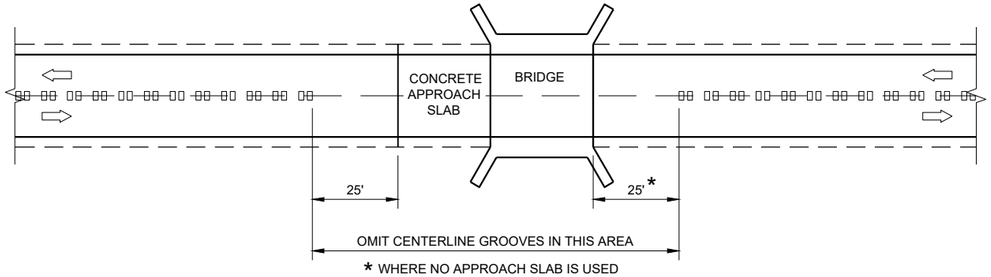
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



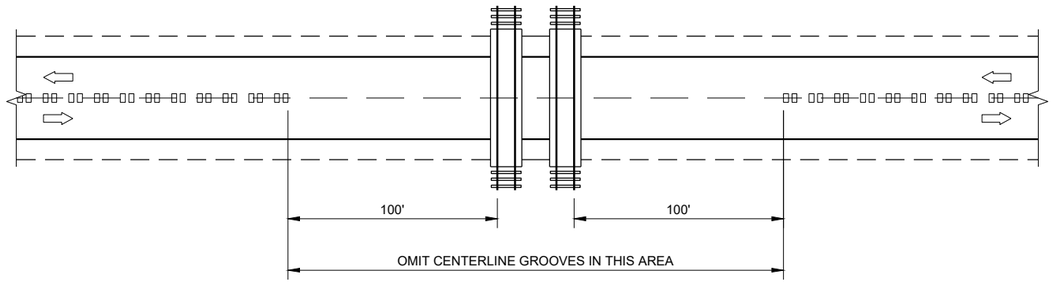
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER

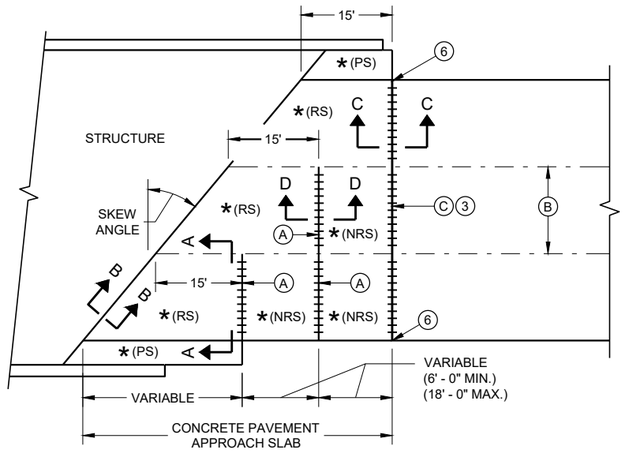
FHWA

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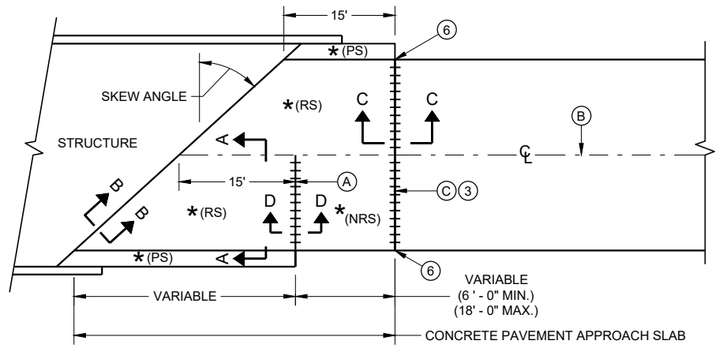
SDD 13A11 - 04d

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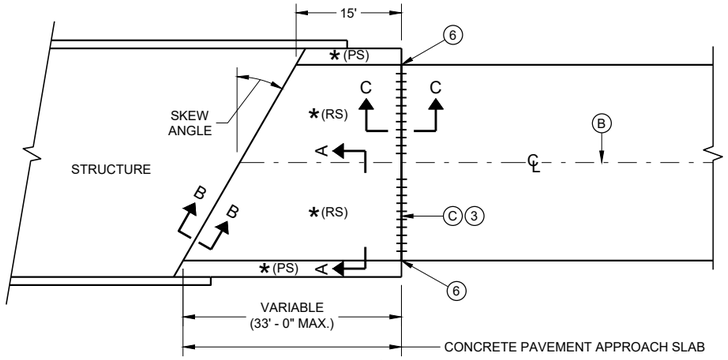
SDD 13A11 - 04d



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

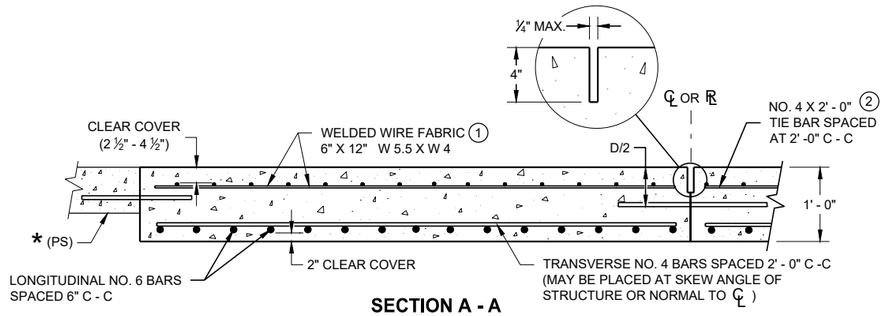
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

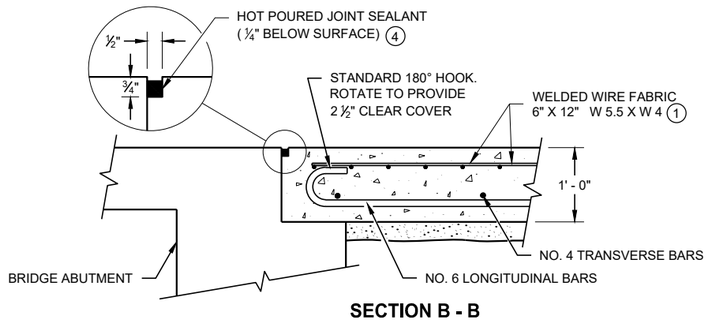
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

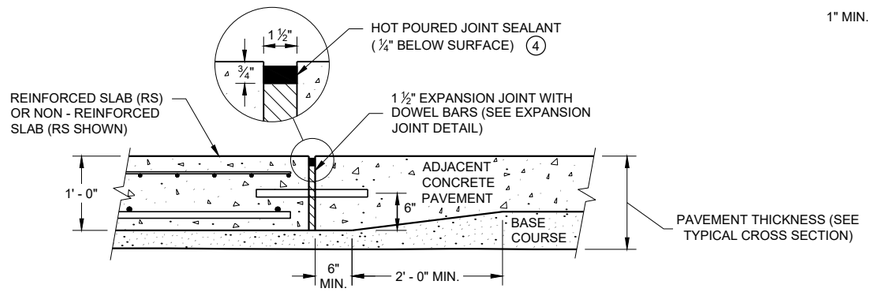
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

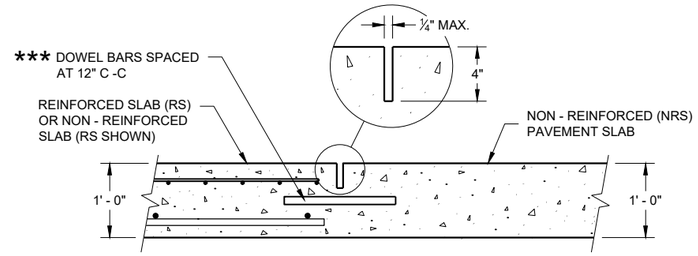
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

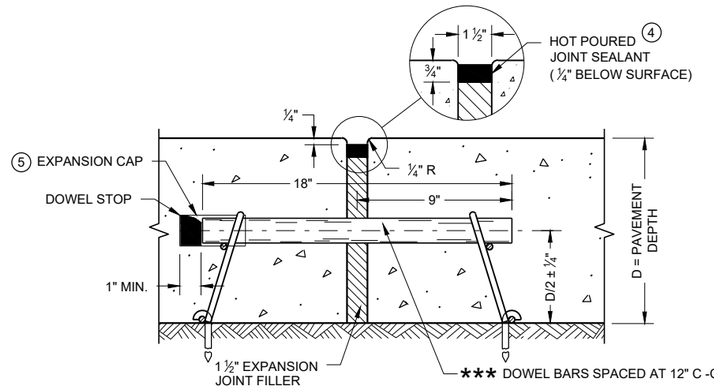
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

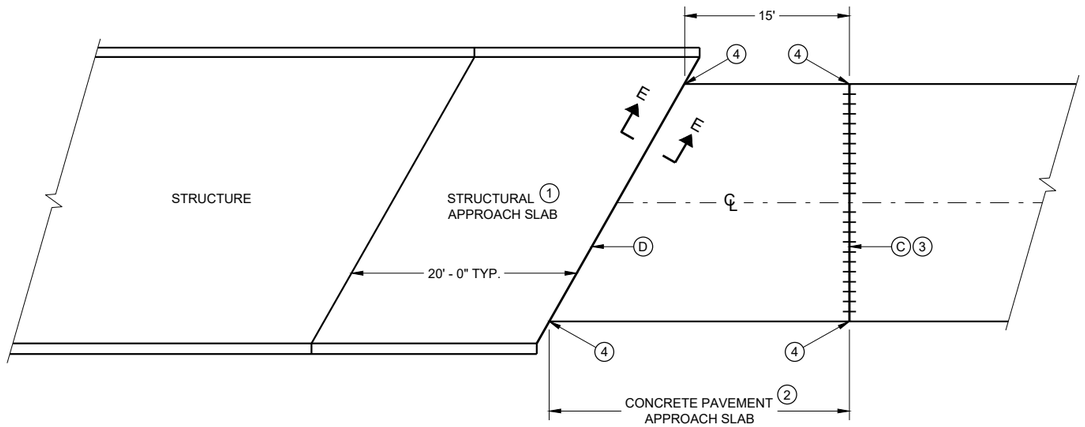
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISO

FHWA

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SDD 13B02 - 09a



BRIDGE APPROACHES

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

(1) SEE BRIDGE PLAN.

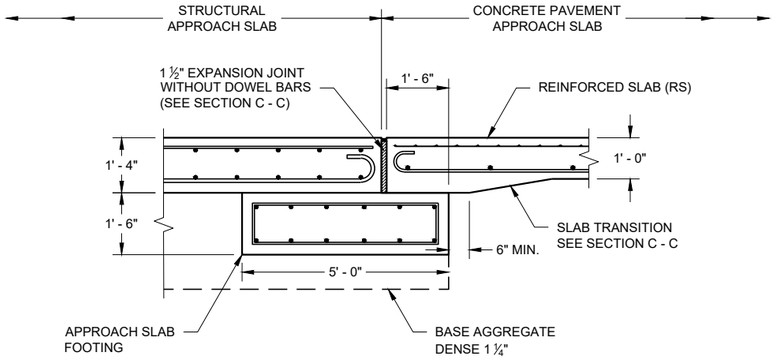
(2) CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞.

(D) 1 ½" EXPANSION JOINT (NO DOWELS)



SECTION E - E
FOOTING DETAIL
STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

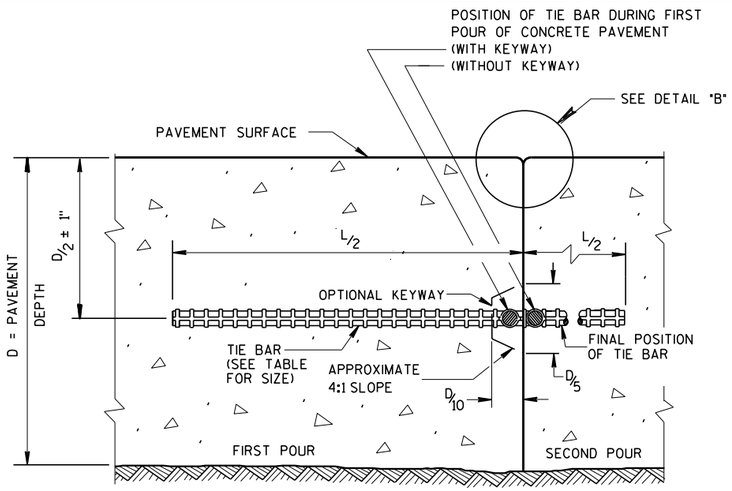
APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

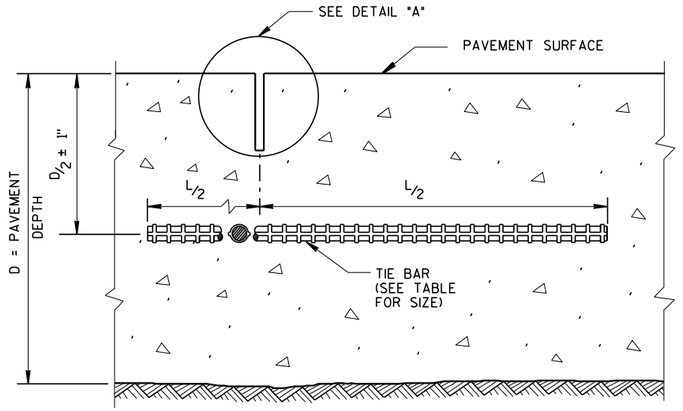
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SDD 13B02 - 09b



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

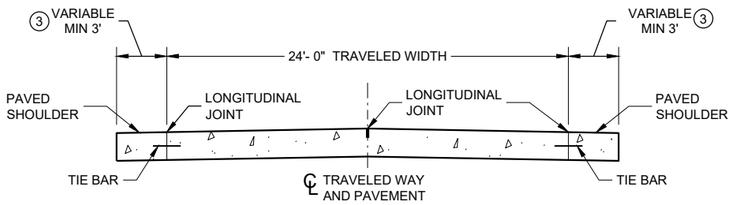
APPROVED
March 2018
DATE
/S/ Peter Kemp PE
PAVEMENT SUPE
FHWA

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S.D.D. 13 C 1-19

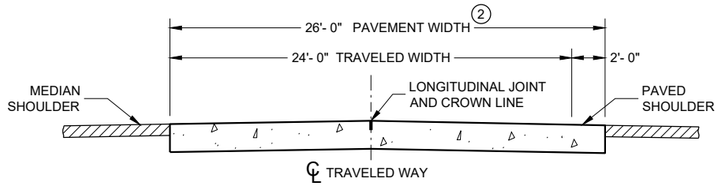
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S.D.D. 13 C 1-19

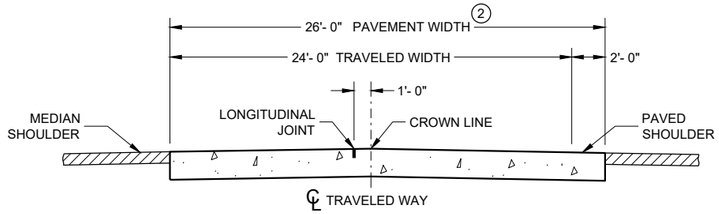


SECTION A - A

TWO-LANE TWO-WAY HIGHWAY (1)



SECTION B - B



ALTERNATIVE SECTION B - B

DIVIDED HIGHWAY (1)

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

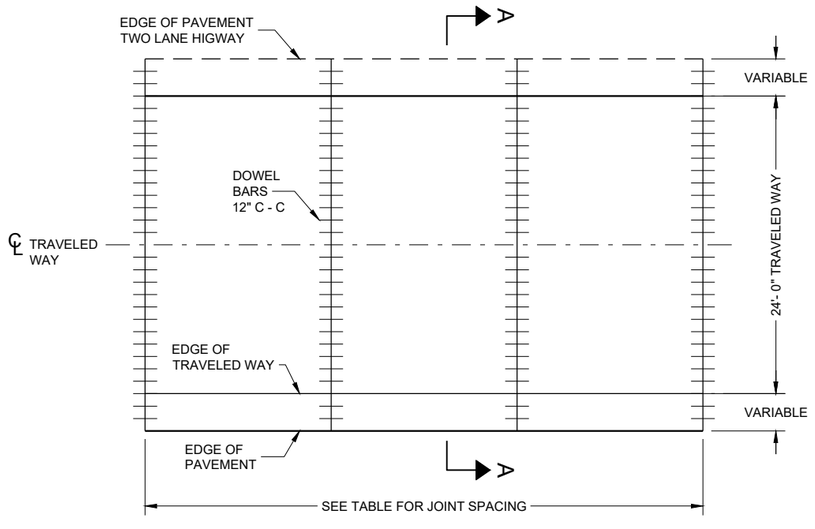
(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED "PAVED SHOULDER" AS CONCRETE PAVEMENT.

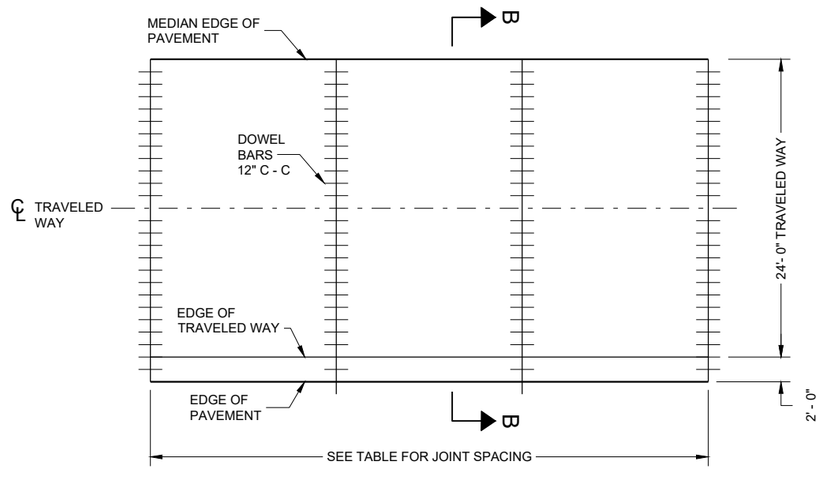
(3) SHOULDER WIDTHS LESS THAN 3 FEET SHALL BE PAVED INTEGRAL TO THE MAINLINE CONCRETE PAVEMENT, SEE SECTION B-B.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



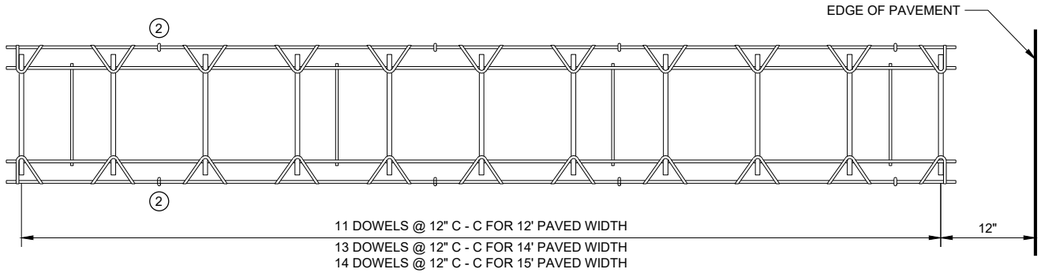
CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD13C11 - 14a



PLAN VIEW



SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY (1)

GENERAL NOTES

(1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.

(2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

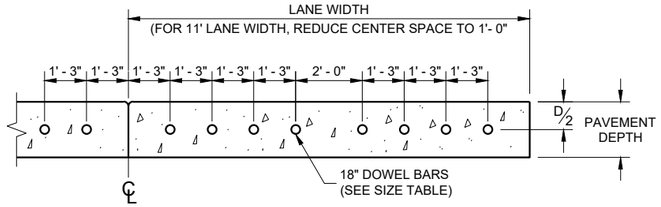
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

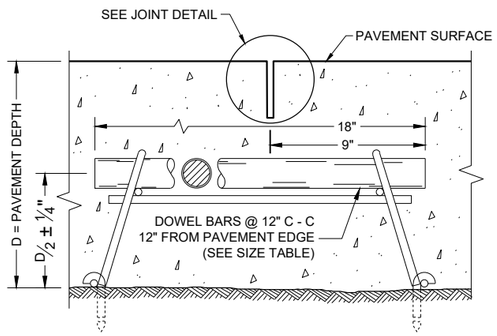
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

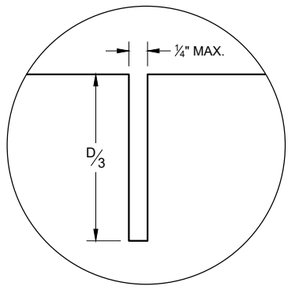
(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



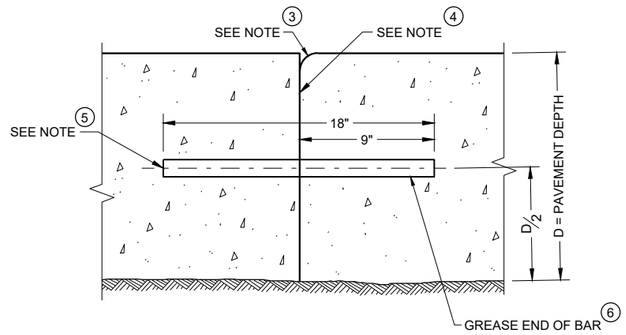
DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



DOWELED CONTRACTION JOINT



JOINT DETAIL



TRANSVERSE CONSTRUCTION JOINT

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

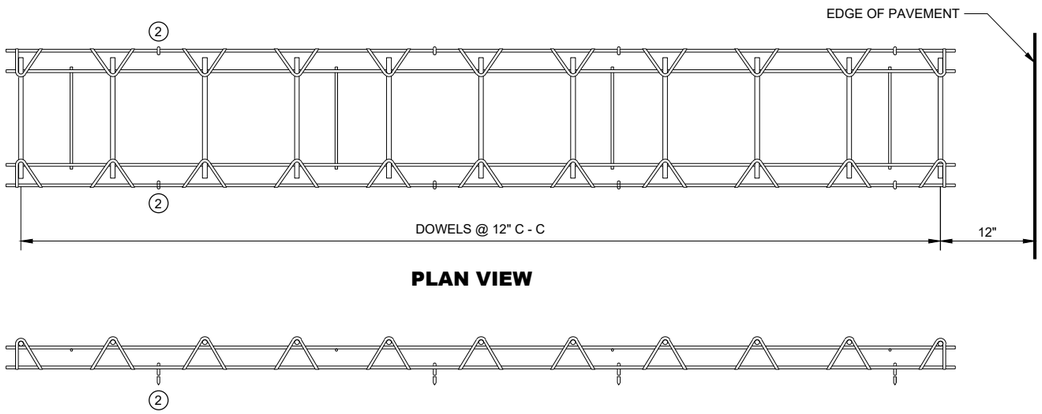
FHWA

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SDD 13C11 - 14b

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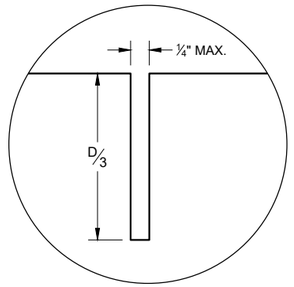
SDD 13C11 - 14b



PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY (1)



JOINT DETAIL

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

(1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.

(2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

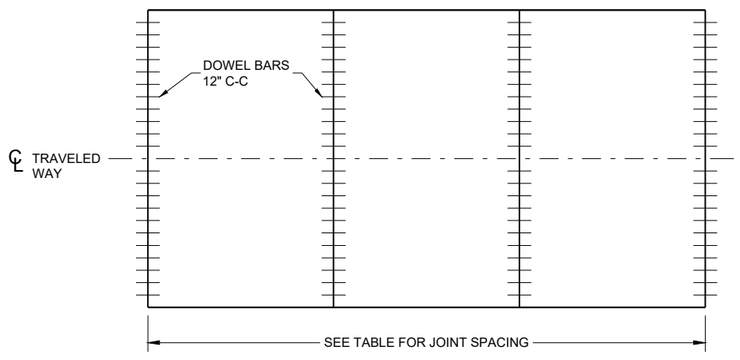
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

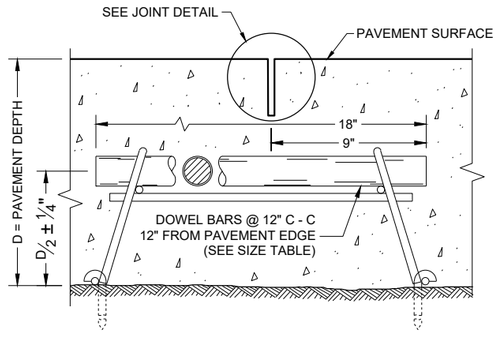
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



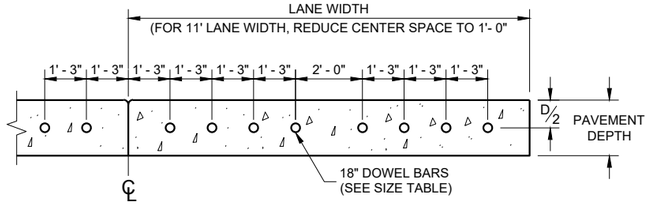
CONTRACTION JOINT LOCATIONS



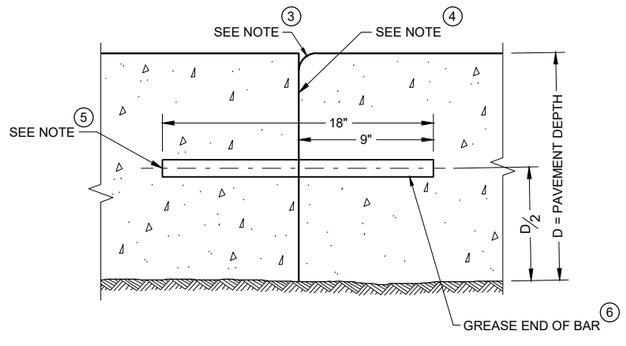
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



TRANSVERSE CONSTRUCTION JOINT

URBAN DOWELED CONCRETE PAVEMENT

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DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

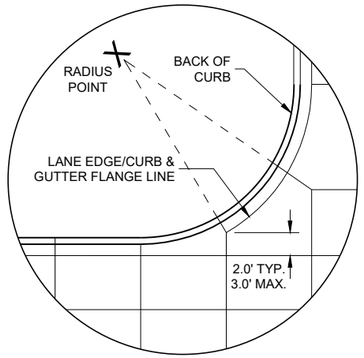
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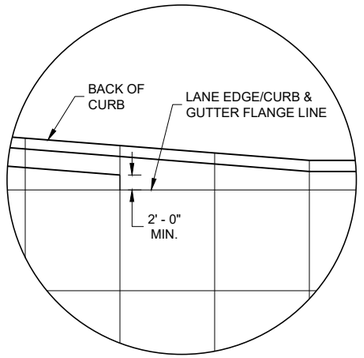
SDD 13C13 - 11

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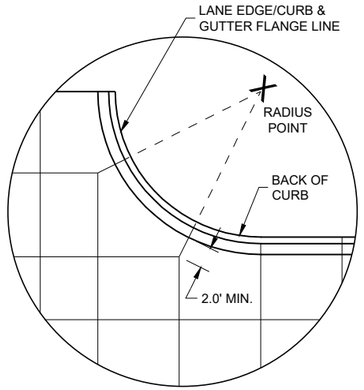
SDD 13C13 - 11



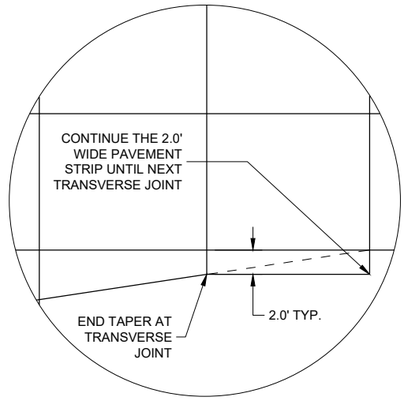
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

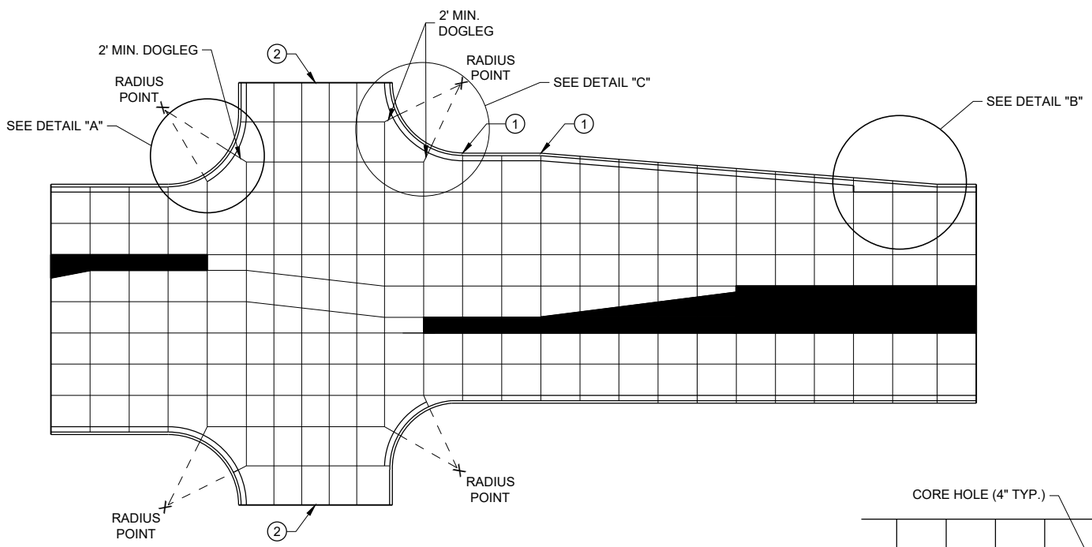
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.

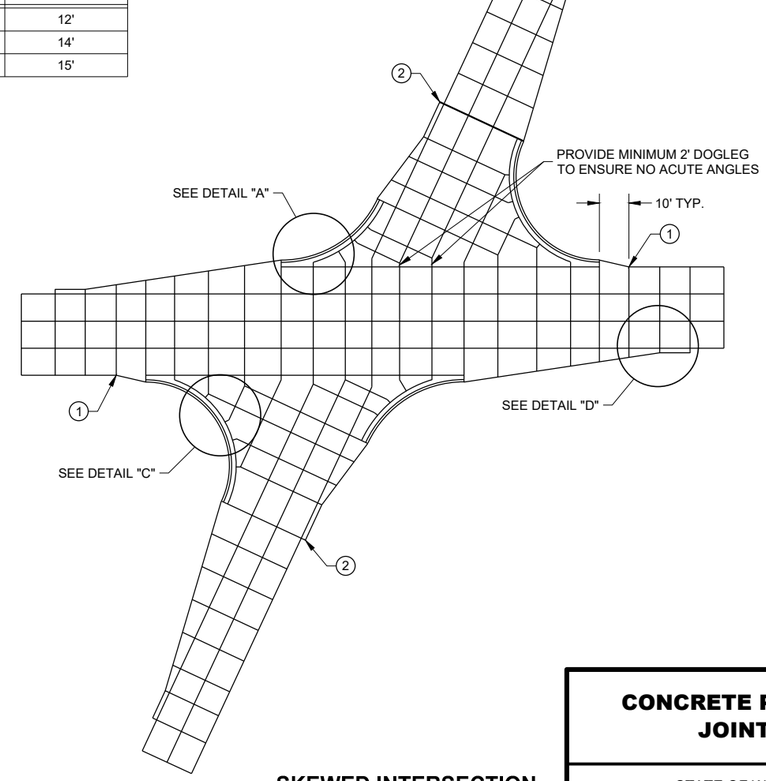
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



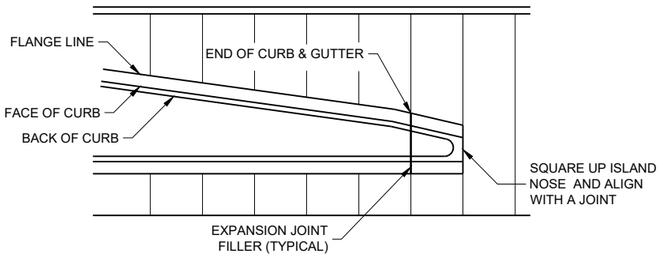
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

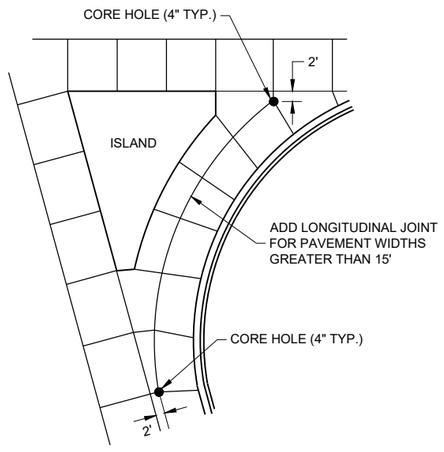
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
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6

SDD 13C18 - 08a

6

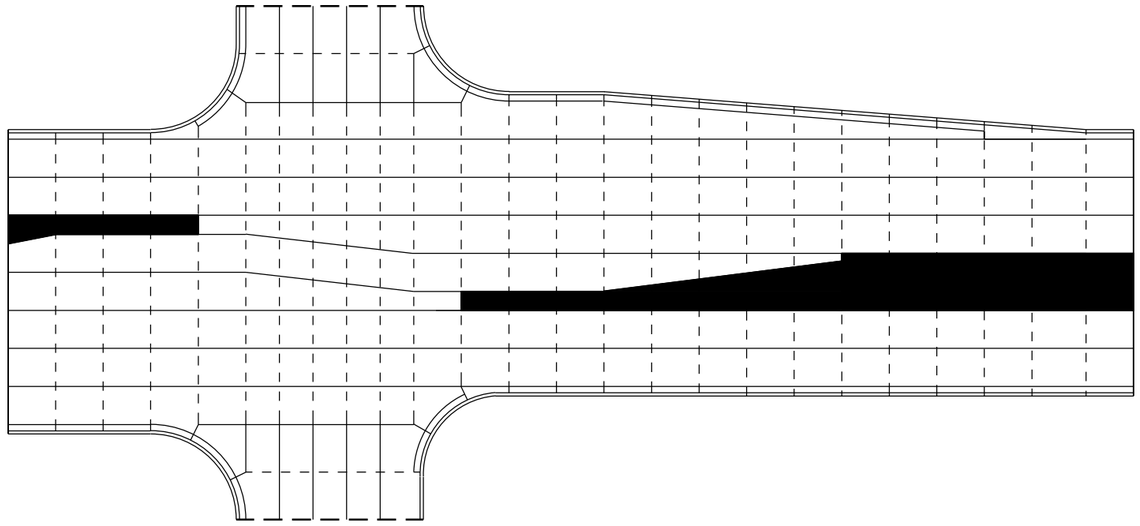
SDD 13C18 - 08a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

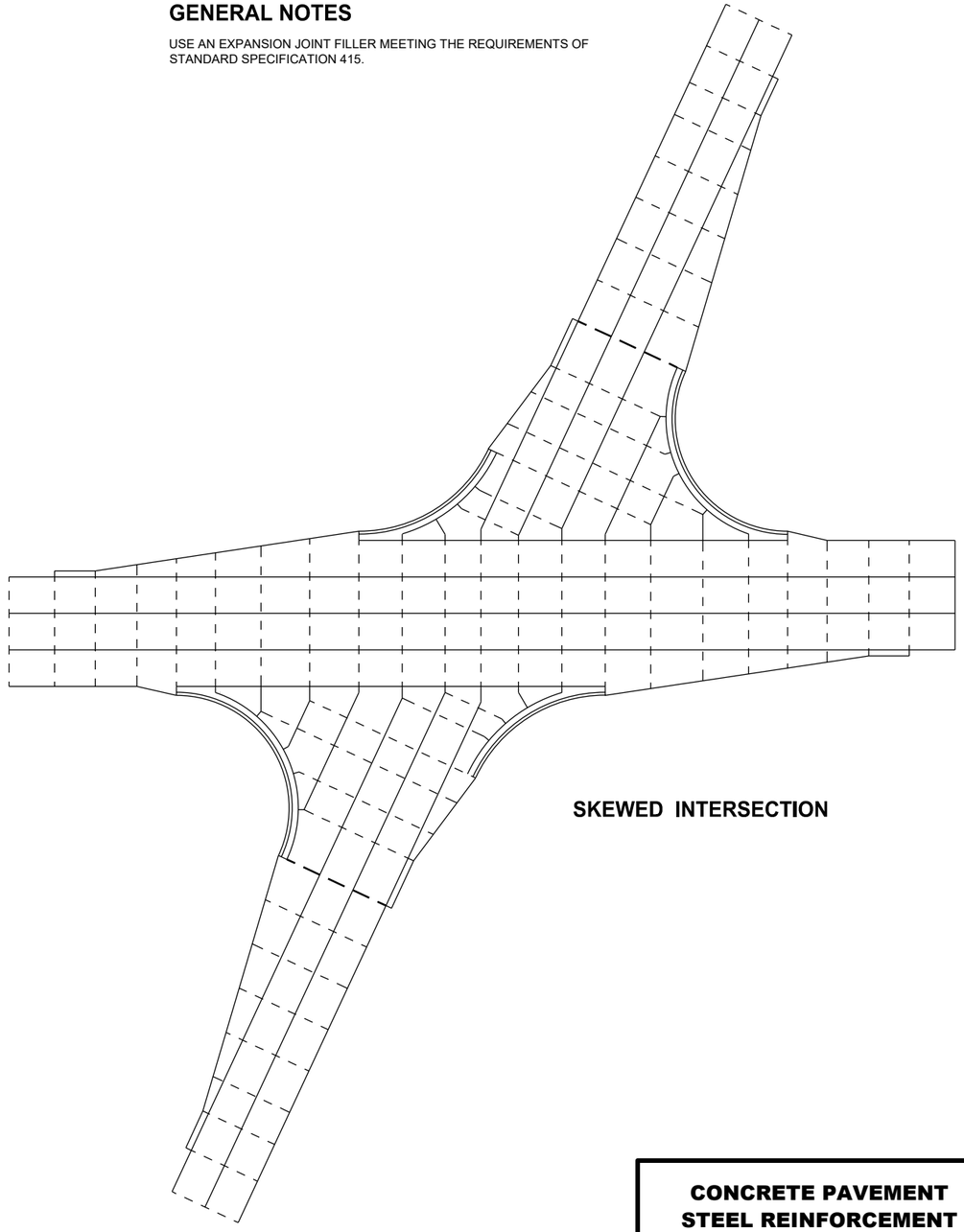
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

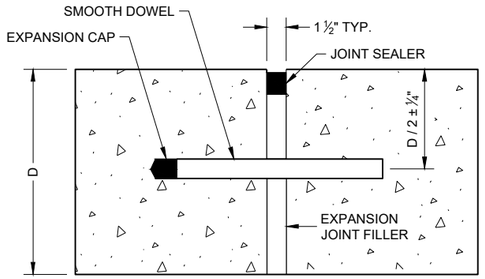
SDD 13C18 - 08b

CONCRETE PAVEMENT STEEL REINFORCEMENT

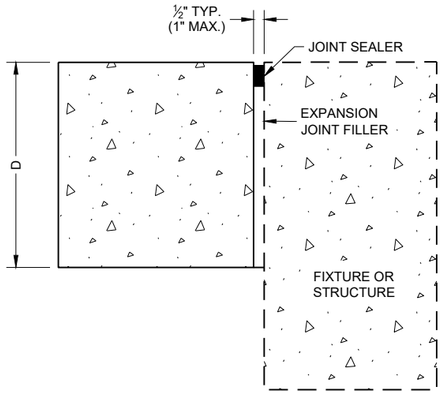
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

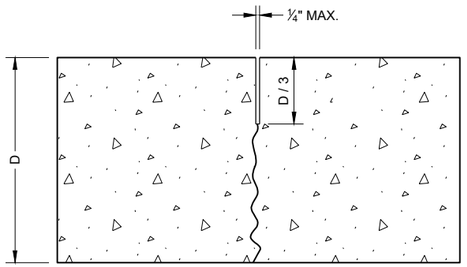
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

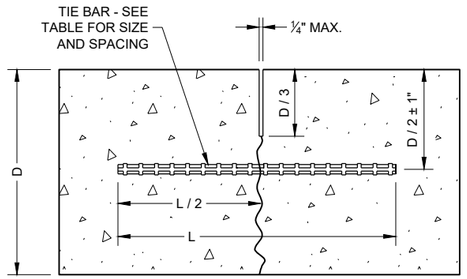
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

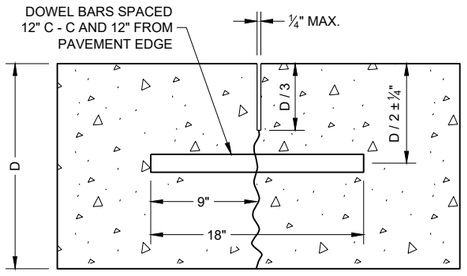
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

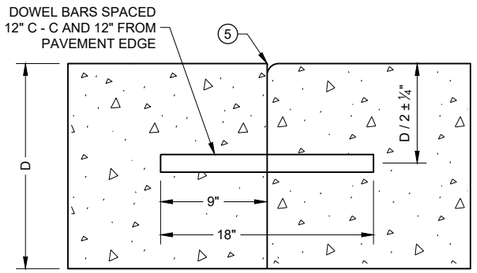


TIED LONGITUDINAL

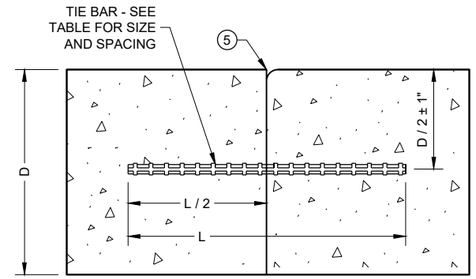


DOWELED TRANSVERSE

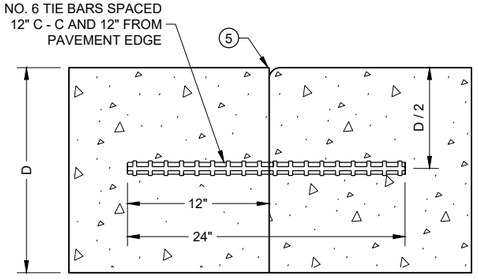
CONTRACTION JOINTS (2)



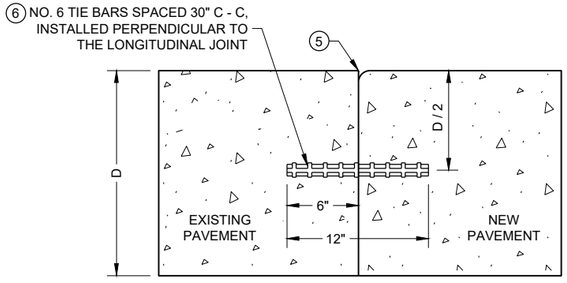
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

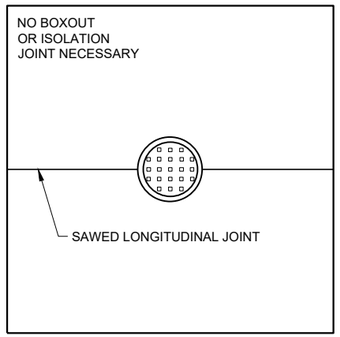
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

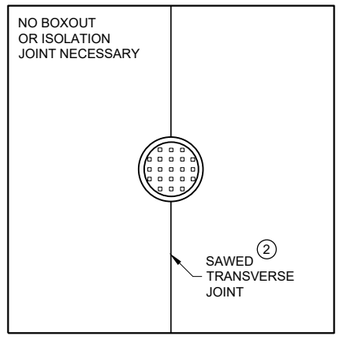
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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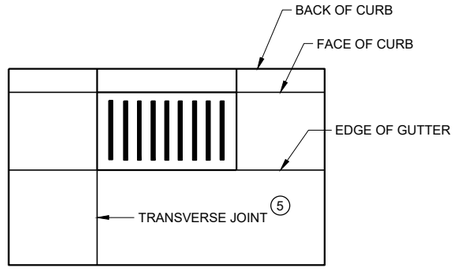
SDD 13C18 - 08c



MANHOLE WITH LONGITUDINAL JOINT



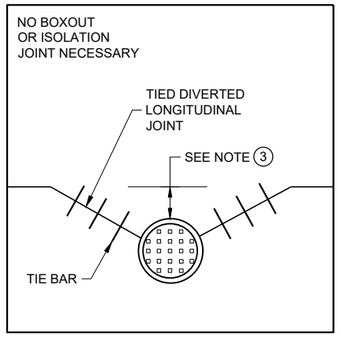
MANHOLE WITH TRANSVERSE JOINT



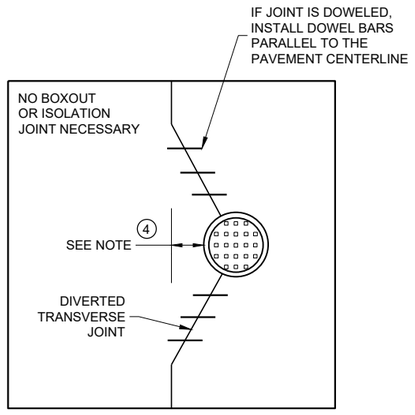
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

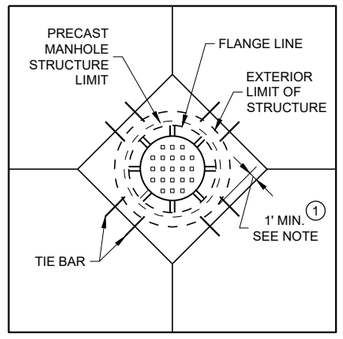
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

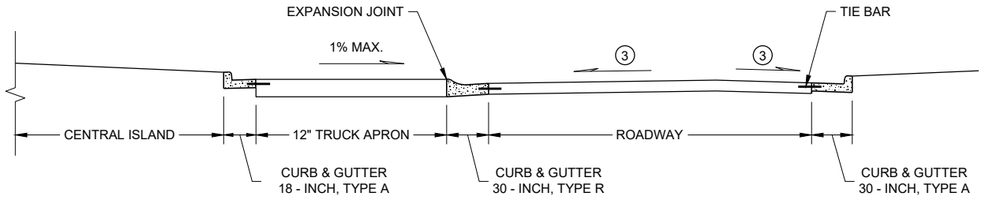
APPROVED
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISO

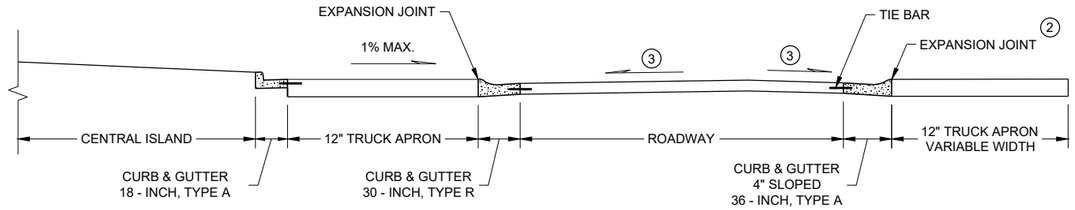
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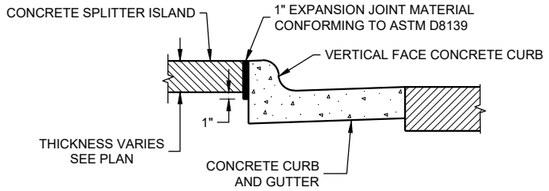
SDD13C18 - 08d



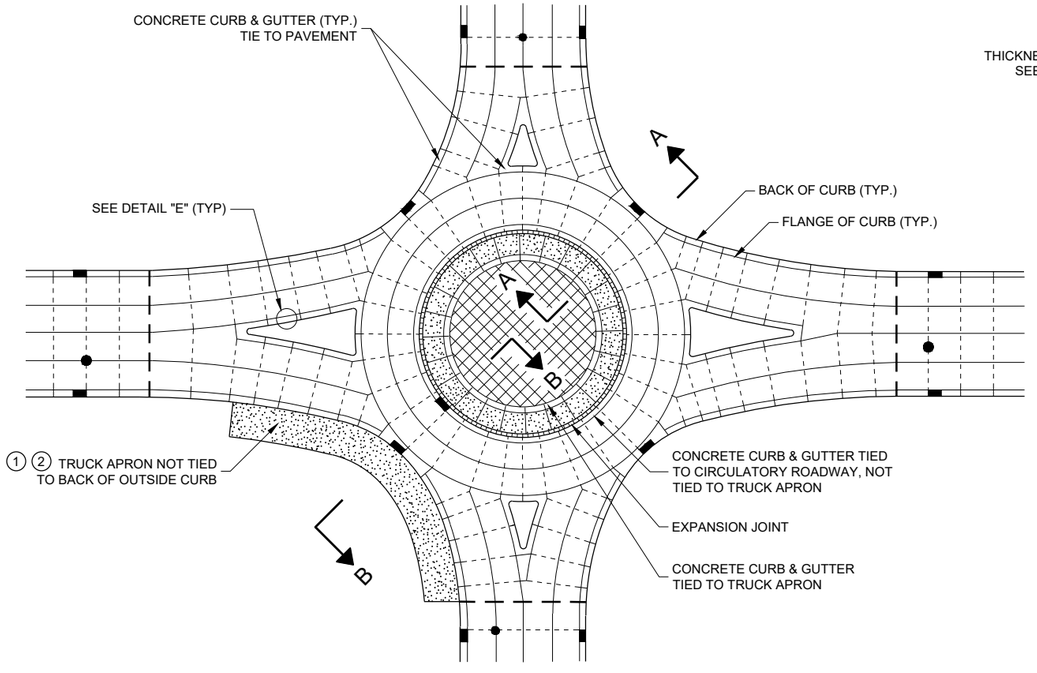
SECTION A - A



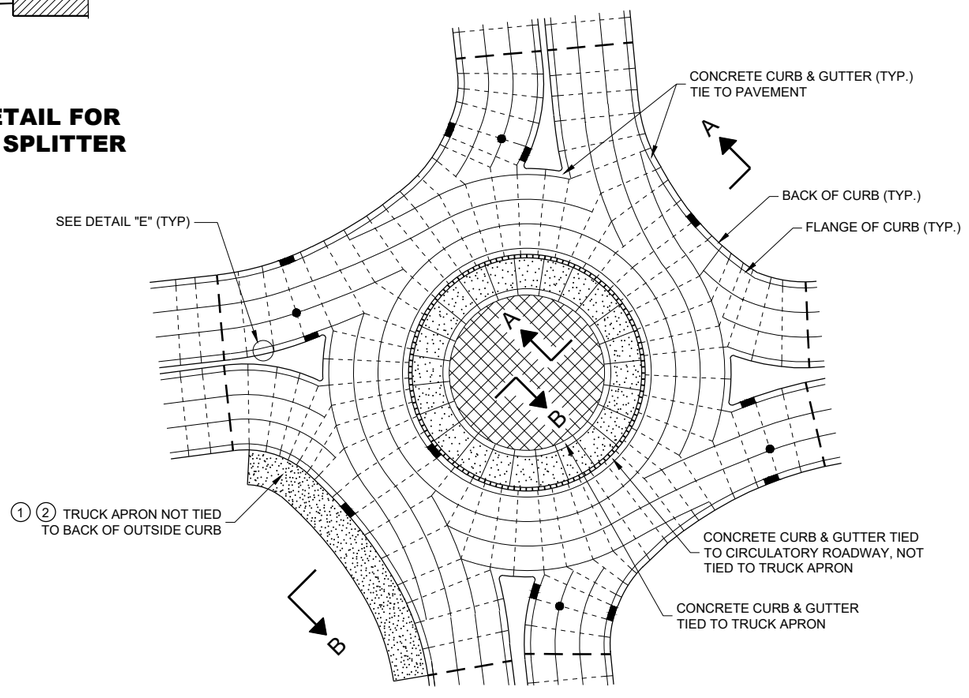
SECTION B - B



DETAIL 'E'
EXPANSION JOINT DETAIL FOR VERTICAL CURB AT A SPLITTER ISLAND



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 - SHEET "a"

USE EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMMODATE TRACKING OF OVERSIZE / OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

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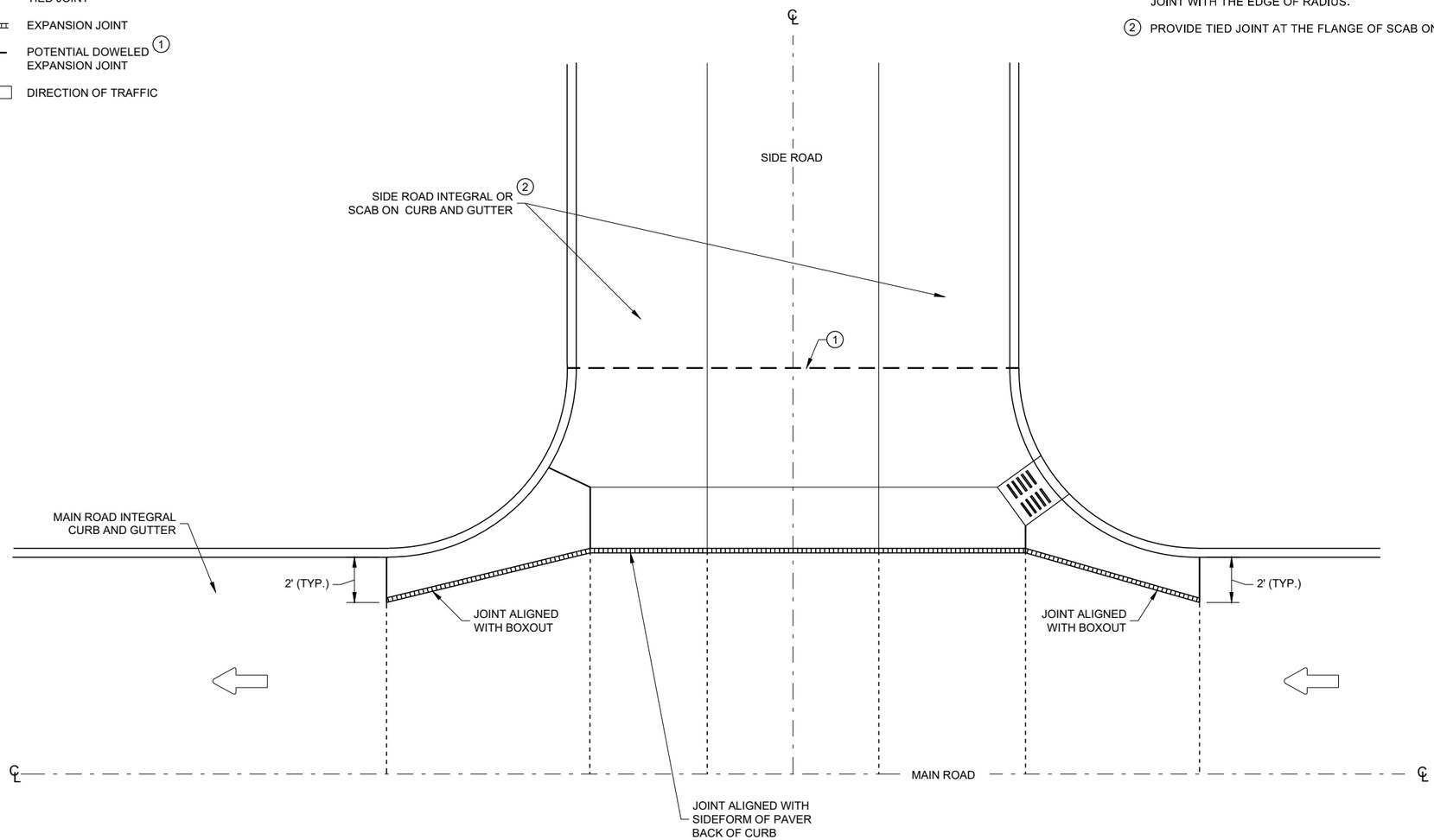
SDD 13C18 - 08e

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SDD 13C18 - 08e

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

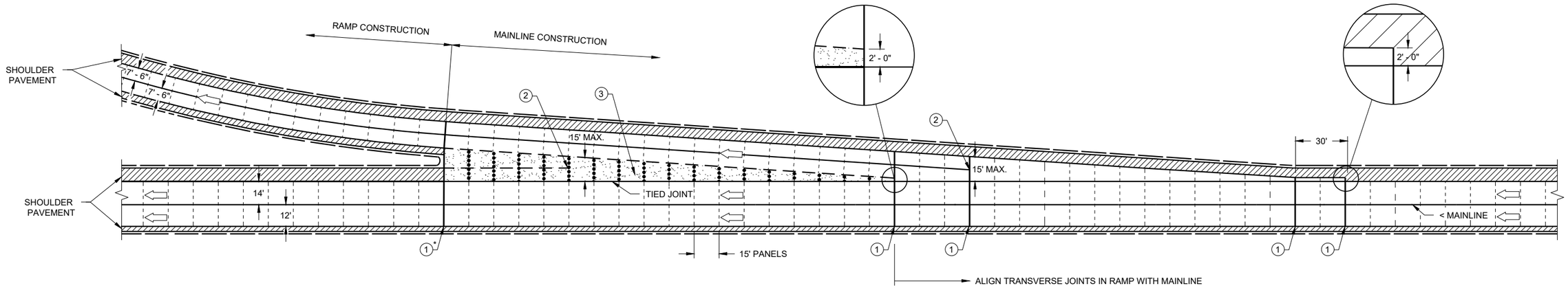
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

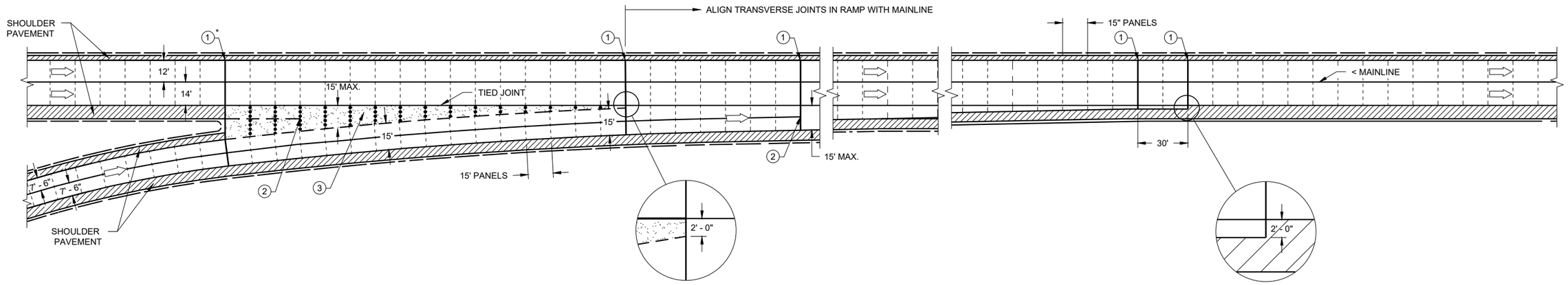
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

6
SDD 13C18 - 08f



DECELERATION LANE



ACCELERATION LANE

GENERAL NOTES

PAVEMENT AND BASE THICKNESS, PANEL LENGTHS, JOINTS AND REINFORCEMENT FOR THE DECELERATION AND ACCELERATION LANES, INCLUDING TAPERS, SHALL BE THE SAME AS THE MAINLINE, EXCEPT WHERE OTHERWISE NOTED.

ALL REINFORCEMENT BARS SHALL BE EPOXY COATED CONFORMING TO SUBSECTION 505.2.6 OF THE STANDARD SPECIFICATIONS.

LANE AND SHOULDER WIDTHS MAY VARY FROM SHOWN. SEE CONSTRUCTION PLANS FOR ACTUAL PROPOSED WIDTHS.

(1) CRITICAL TRANSVERSE JOINT LOCATIONS AT PAVEMENT WIDTH CHANGES.
((1)* IS NOT A CRITICAL TRANSVERSE JOINT WHEN ASPHALTIC GORE IS INSTALLED).

(2) STOP LONGITUDINAL JOINT WITH CORE HOLE (2" TYP.) WHEN IT MEETS THE FIRST TRANSVERSE JOINT LESS THAN 15' WIDE OR STOP LONGITUDINAL JOINT WHEN IT MEETS 2' AWAY FROM THE TIED JOINT OF THE MAINLINE.

(3) DISREGARD THE JOINT DETAILS IN AND AROUND THE GORE WHEN ASPHALTIC GORE IS INSTALLED.

LEGEND

- DOWELED JOINT
- UNDOWELED JOINT
- TIED JOINT
- UNTIED JOINT
- GORE
- DIRECTION OF TRAVEL

CONCRETE PAVEMENT JOINTING ACCELERATION/ DECELERATION LANE

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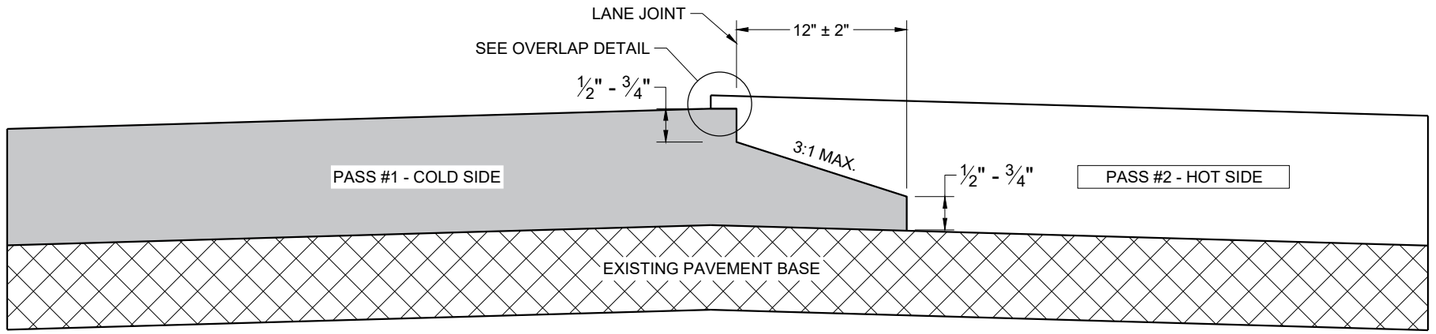
FHWA

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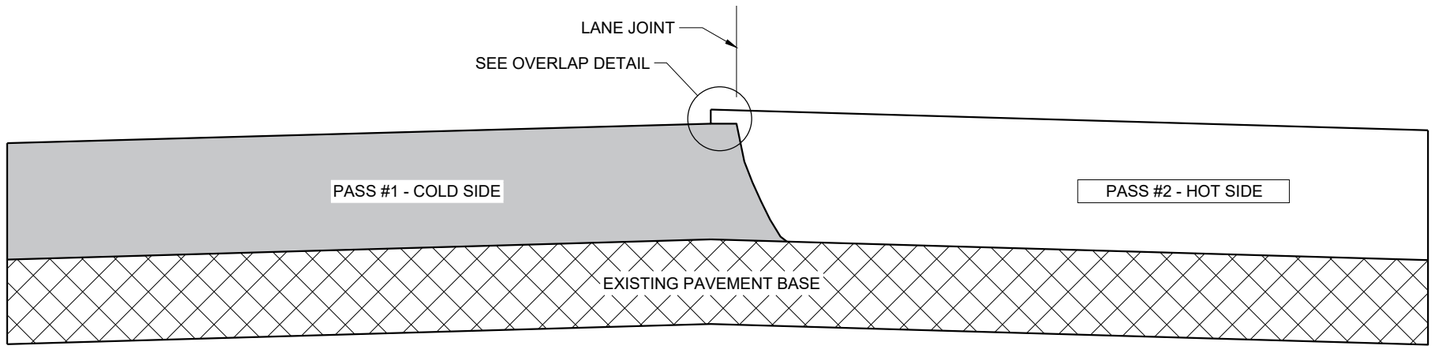
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SDD13C18 - 08g

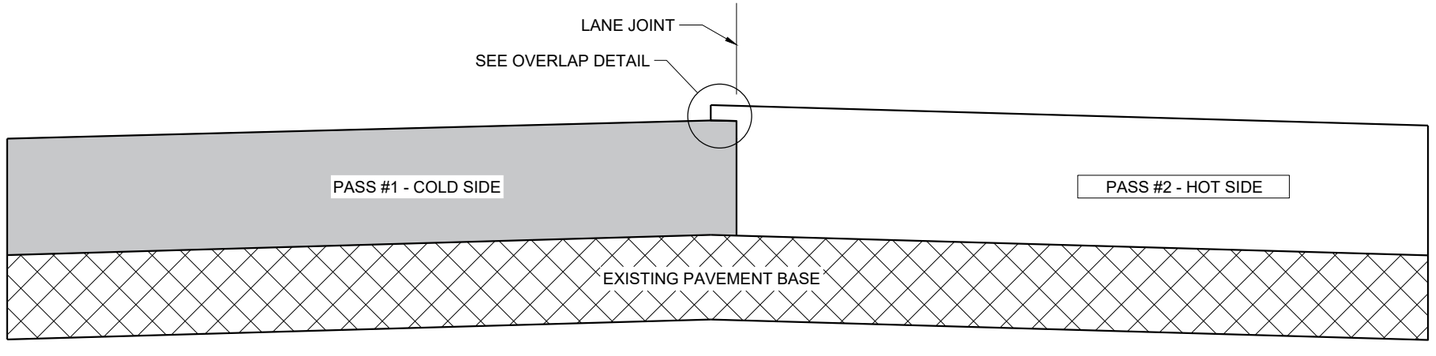
SDD13C18 - 08g



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

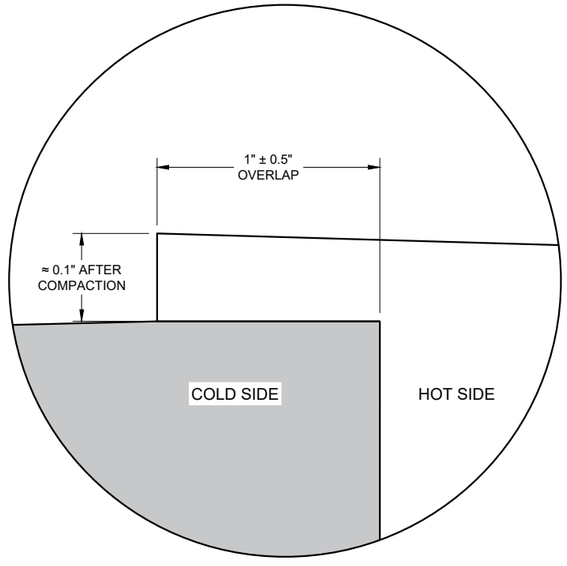
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

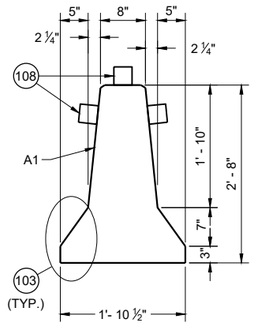
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
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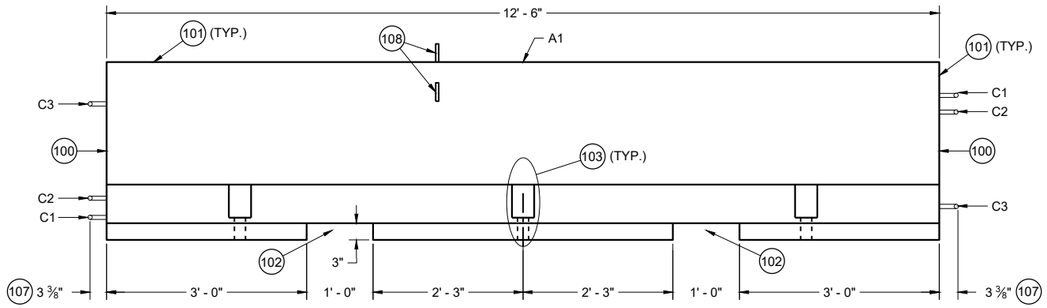
APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



CROSS SECTION



PROFILE VIEW

GENERAL NOTES

PLACE BARRIER ON PAVED SURFACE. BEFORE PLACEMENT OF TEMPORARY BARRIER, REMOVE ALL LOOSE MATERIAL FROM PAVED SURFACE.

LOOP BARS C1, C2 AND C3 ARE NOT FOR PLACEMENT OR MOVEMENT OF BARRIER.

(100) PERMANENTLY FORM INTO ONE END OF BARRIER THE FOLLOWING INFORMATION:
- A. TYPE OF BARRIER: WI-CBTP
- B. MANUFACTURER
- C. DATE OF MANUFACTURE (MONTH AND YEAR)

(101) 1" OPTIONAL CHAMFER

(102) SEE LIFTING SLOT DETAIL

(103) SEE ANCHOR BLOCK DETAIL

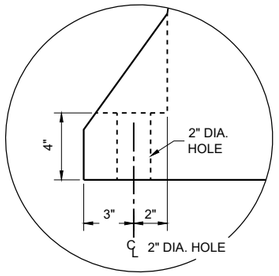
(104) 1 ¾" MIN. CLEAR COVER

(105) 2" MIN. CLEAR COVER

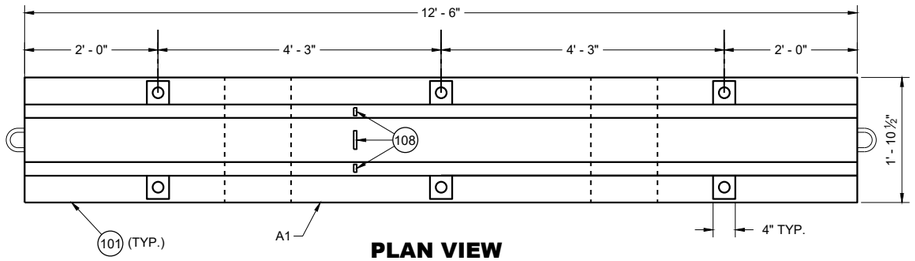
(106) 1" MIN. CLEAR COVER

(107) ± ⅛" MEASURED FROM FACE OF CONCRETE BARRIER TO OUTSIDE OF LOOP BAR (TYP.)

(108) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURERS INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED LEFT OF TRAFFIC AND WHITE WHEN BARRIER IS LOCATED RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART, PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO SIDE MOUNTED DELINEATORS ON BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAT 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

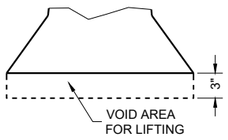


ANCHOR BLOCK DETAIL

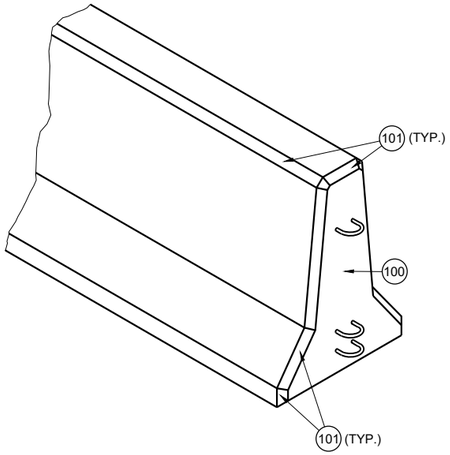


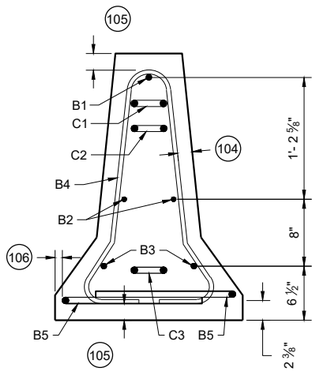
PLAN VIEW

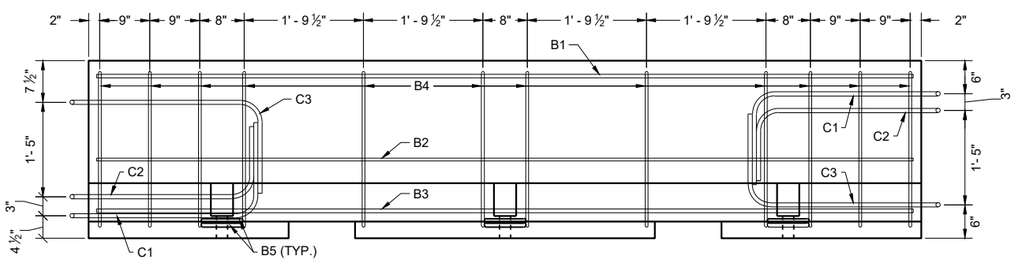
TEMPORARY BARRIER



LIFTING SLOT DETAIL (TYP.)







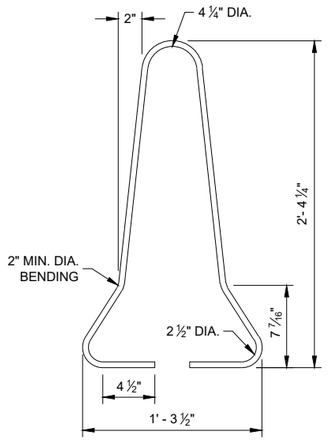
PROFILE VIEW

TEMPORARY BARRIER REINFORCEMENT

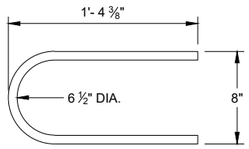
CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

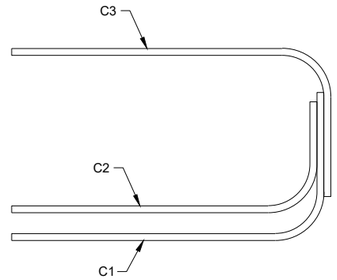
SDD 14B07-16a



B4 BAR DETAIL

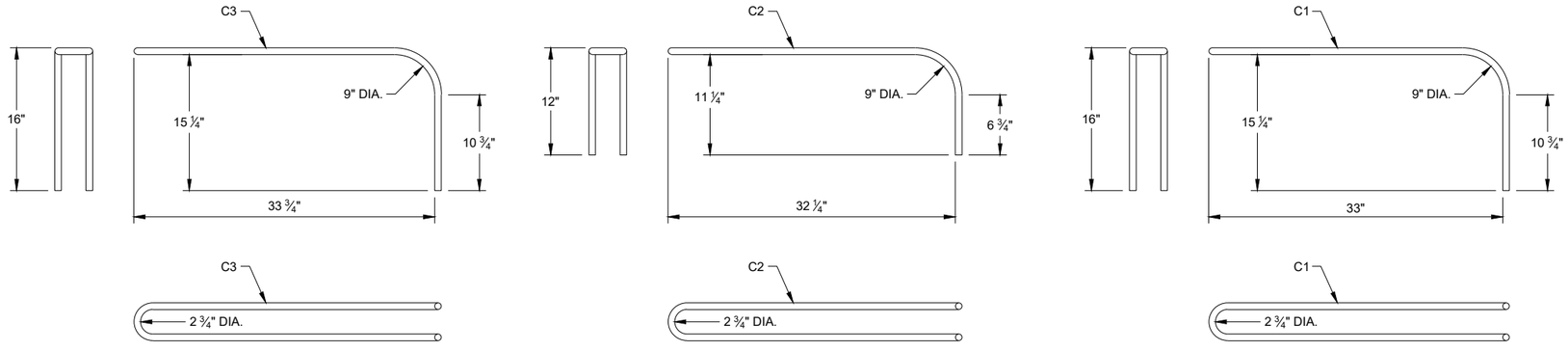


B5 BAR DETAIL



PROFILE VIEW

LOOP BAR ASSEMBLY



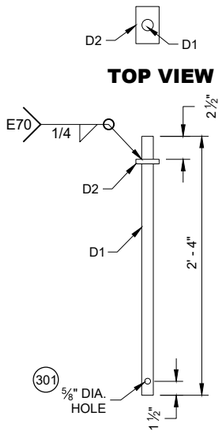
C BAR DETAILS

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

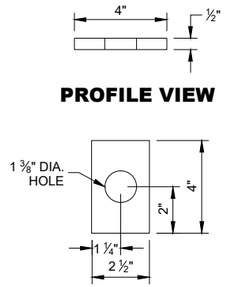
SDD 14B07-16b



TOP VIEW

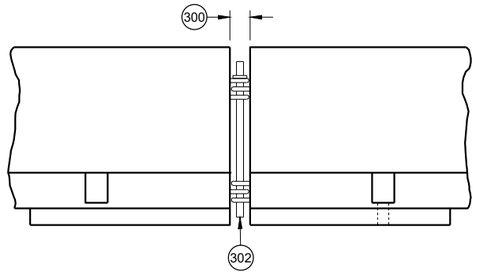
PROFILE VIEW

CONNECTOR PIN ASSEMBLY



PROFILE VIEW

TOP VIEW D2



CONNECTING TEMPORARY BARRIER SECTIONS

GENERAL NOTES

300 SET WITH 3 ⅝" WOOD BLOCK.

301 HOLE IS OPTIONAL.

302 CONNECTOR PIN ASSEMBLY.

303 CONCRETE PAVEMENT, APPROACH SLAB, OR DECK.

304 CONCRETE DECK.

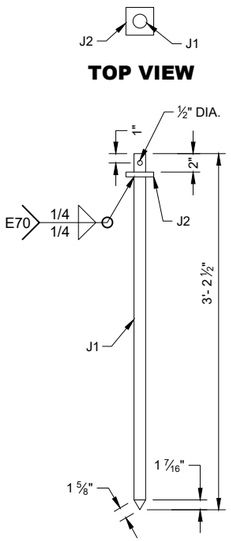
305 DO NOT USE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY OR CONCRETE PAVEMENT WITH ASPHALT OVERLAY.

306 MINIMUM OF 2" OF ASPHALT.

307 ASPHALT ANCHOR PIN ASSEMBLY

308 IF DRILLING A PILOT HOLE, THE MAX, DIA. OF THE HOLE IS 3/4"

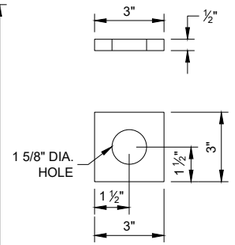
309 WHEN THERE IS ASPHALT OVERLAYING CONCRETE PAVEMENT, A 1 5/8" DIA. PILOT HOLE CAN BE DRILLED INTO THE OVERLAY AND CONCRETE. IF NEEDED DRILL A 3/4" PILOT HOLE IN BASE COURSE.



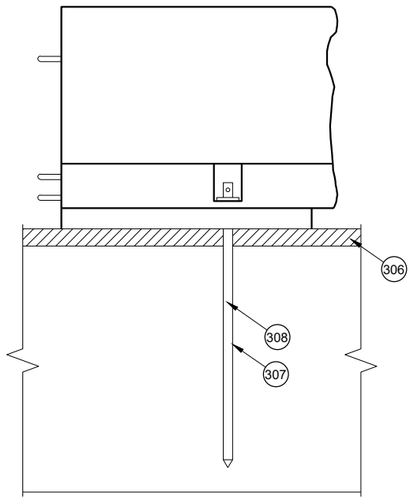
TOP VIEW

PROFILE VIEW

ASPHALT ANCHOR PIN ASSEMBLY

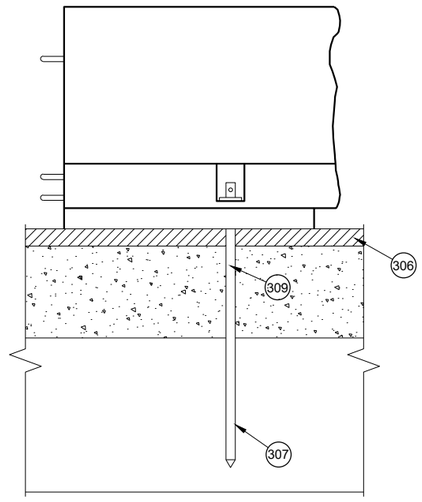


TOP VIEW J2



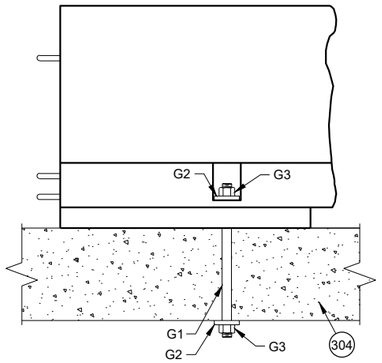
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT PAVEMENT



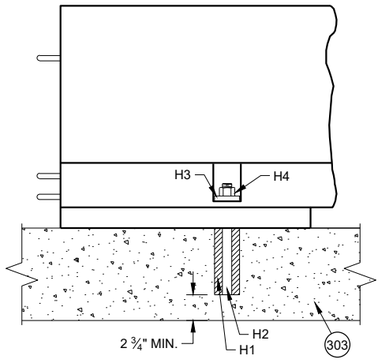
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT OVERLAY ON TOP OF CONCRETE PAVEMENT



SIDE VIEW

THROUGH BOLT ANCHOR INSTALLATION (305)



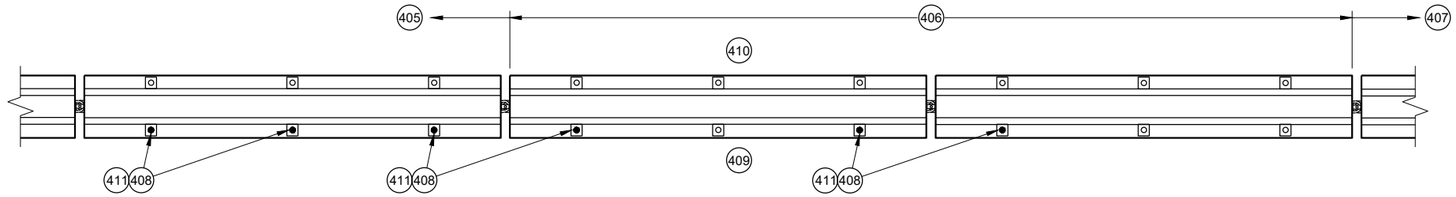
SIDE VIEW

ADHESIVE ANCHOR INSTALLATION (305)

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

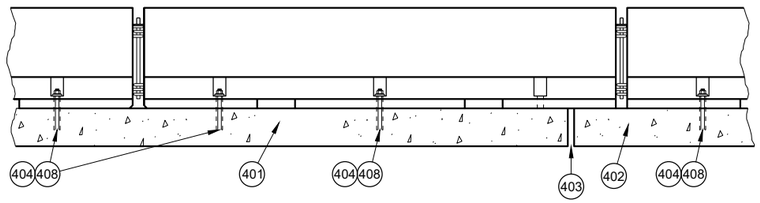
STATE OF WISCONSIN
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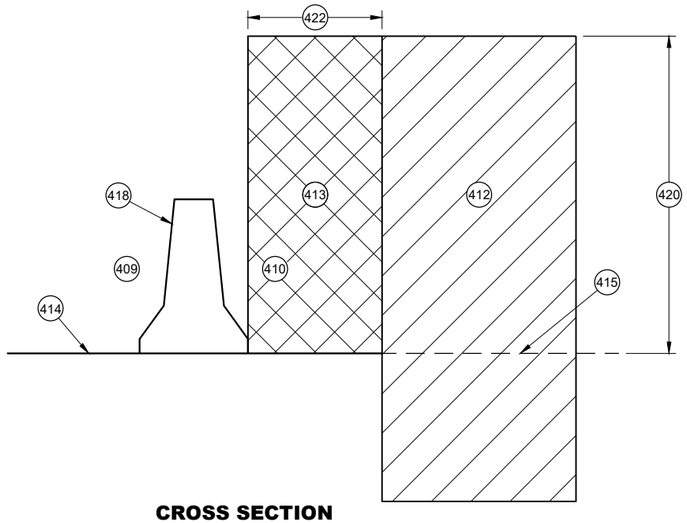
PLAN VIEW

TRANSITION FROM FREE STANDING TO ANCHORED BARRIER



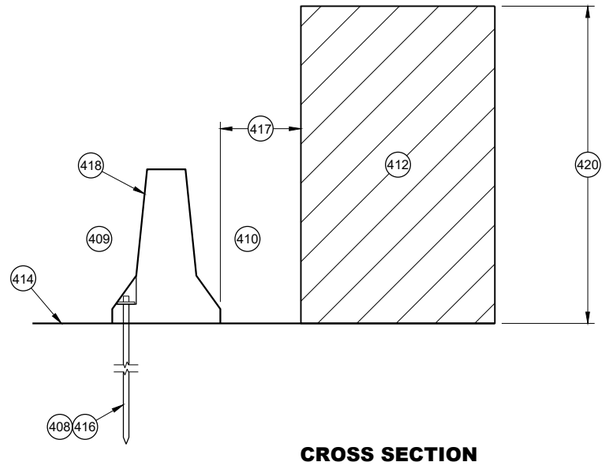
PROFILE VIEW

ANCHORED BARRIER NEAR EXPANSION JOINT (400)



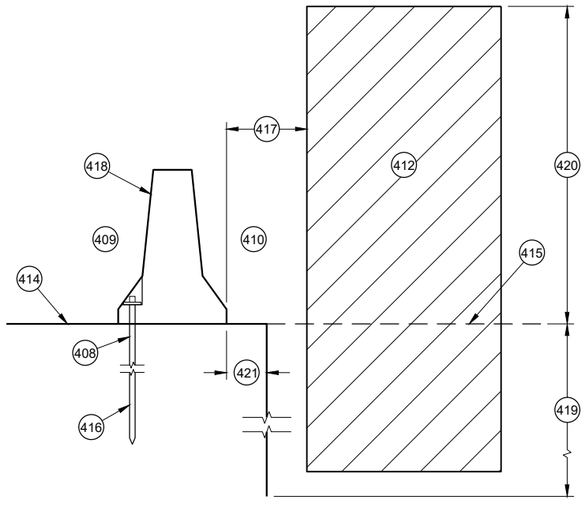
CROSS SECTION

FREE STANDING BARRIER



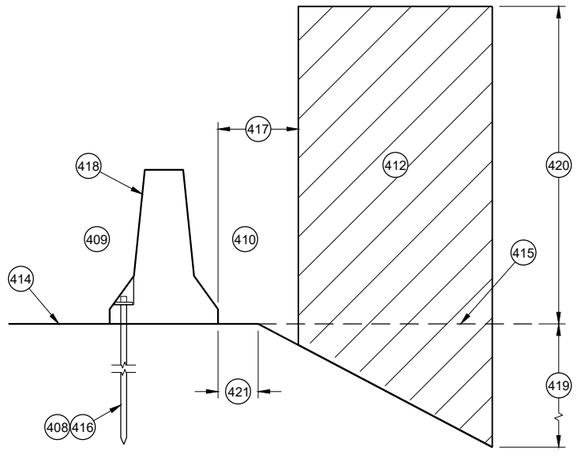
CROSS SECTION

ANCHORED BARRIER FOR OBJECTS ABOVE THE GRADE LINE AND NEAR THE BARRIER



CROSS SECTION

ANCHORED BARRIER NEAR VERTICAL DROP OFF



CROSS SECTION

ANCHORED BARRIER NEAR A SLOPE

GENERAL NOTES

(400) NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.

(401) CONCRETE DECK

(402) CONCRETE DECK OR APPROACH SLAB.

(403) EXPANSION JOINT

(404) ADHESIVE ANCHOR SHOWN. SEE ANCHOR DETAILS.

(405) ANCHORED TEMPORARY BARRIER

(406) TRANSITION FROM ANCHORED TEMPORARY BARRIER TO FREE STANDING

(407) FREE STANDING BARRIER

(408) REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERCIAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(409) TRAFFIC SIDE

(410) NON-TRAFFIC SIDE

(411) ANCHOR LOCATION. SEE ANCHORING DETAILS.

(412) WORK AREA

(413) AREA FREE OF OBJECTS AND WORKERS

(414) GRADE LINE

(415) EXTENDED GRADE LINE

(416) ANCHORED TEMPORARY BARRIER. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR AN ASPHALT ANCHOR ROD DETAILS FOR MORE INFORMATION. ASPHALT ANCHOR ROD SHOWN.

(417) WHEN OBJECTS EXTEND ABOVE THE GRADE. A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT.

(418) OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR ALLOWED TO LEAN AGAINST THE BARRIER WITHOUT WRITTEN PERMISSION OF THE PROJECT ENGINEER.

(419) DEPTHS OF 3 FEET OR MORE.

(420) Y = 6.5'

(421) OFFSET FROM BACK OF BARRIER EDGE:

CONCRETE PAVEMENT	0.5'
ASPHALT	0.5'

(422) POSTED SPEED (MPH):

45 OR GREATER	4.0'
40 OR LOWER	2.0'

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

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GENERAL NOTES

(500) EXISTING RIGID BARRIERS (VARIES)

(501) TEMPORARY BARRIER

(502) SEE OTHER DETAIL ON HOW TO ANCHOR TEMPORARY BARRIER (BARRIER ASPHALT ANCHOR SHOWN).

(503) ANCHORS ARE REQUIRED ON BOTH SIDE OF THE TEMPORARY BARRIER.

(504) NESTED RAILS ARE REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

(505) TRAFFIC TRAVELS FROM PERMANENT BARRIER TO TEMPORARY BARRIER.

(506) TRAFFIC TRAVELS FROM TEMPORARY BARRIER TO PERMANENT BARRIER.

(507) VERTICAL BARRIER

(508) SAFETY SHAPE BARRIER

(509) SINGLE SLOPE BARRIER

(510) CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF RIGID BARRIER.

(511) BENT THRIE BEAM TO FIT.

(512) THRIE BEAM PIECES ARE OFFSET 15 ¼" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.

(513) TWO (2) P1, P2 AND P3 ARE REQUIRED

(514) FIVE (5) N1, N2 AND N3 ARE REQUIRED

(515) TWO (2) R1, R2 AND R3 ARE REQUIRED

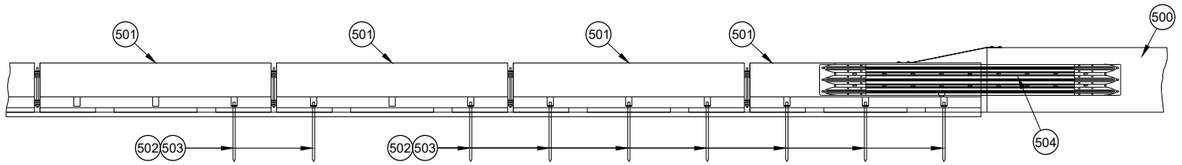
(516) CUT WOOD BLOCK TO FIT.

(517) SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL ASSEMBLY.

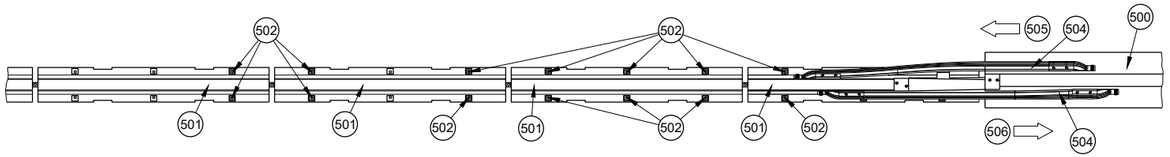
(518) CAP ASSEMBLY

(519) 4" MAX. GAP BETWEEN TEMPORARY BARRIER AND RIGID BARRIER.

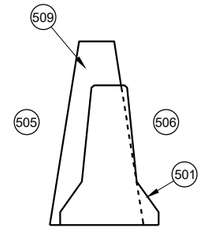
(520) ALL TWELVE SPLICE HOLES REQUIRE M1 AND M2



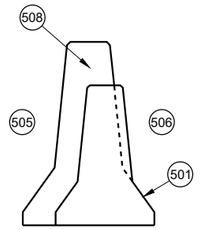
PROFILE VIEW



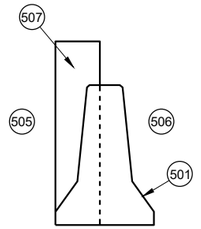
PLAN VIEW



CROSS SECTION TEMPORARY BARRIER PLACEMENT SINGLE SLOPE

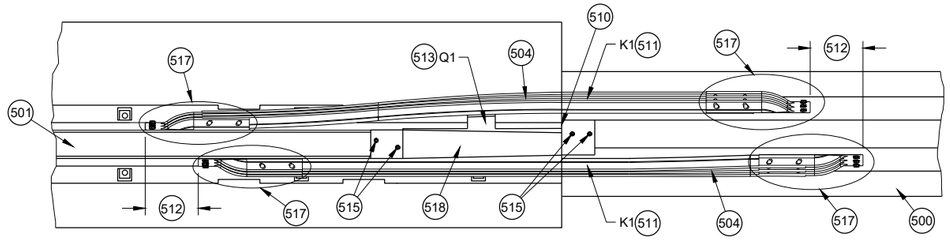


CROSS SECTION TEMPORARY BARRIER PLACEMENT SAFETY SHAPE

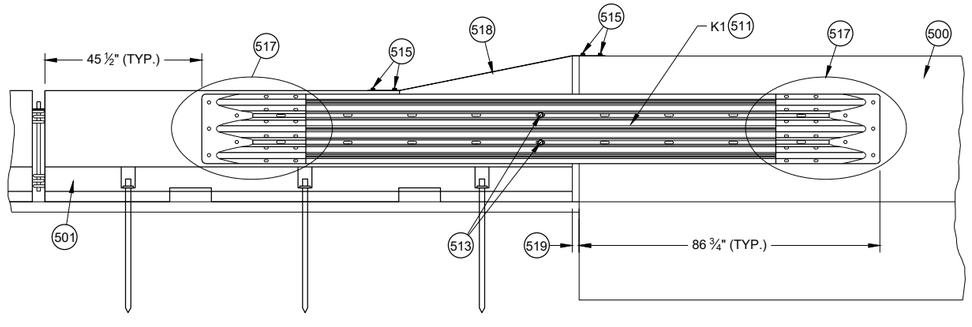


CROSS SECTION TEMPORARY BARRIER PLACEMENT VERTICAL

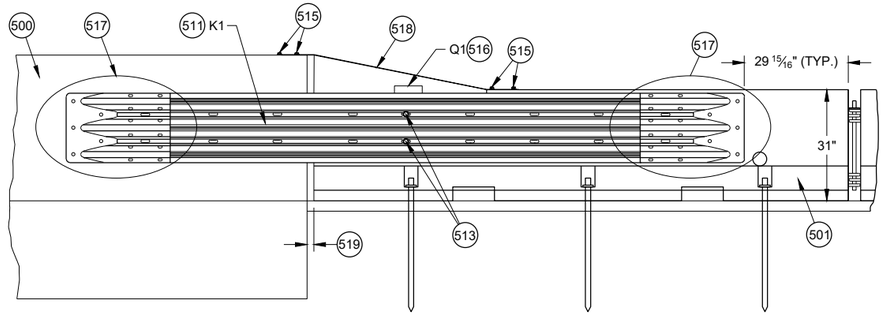
PLAN VIEW
TRANSITION TO RIGID BARRIER



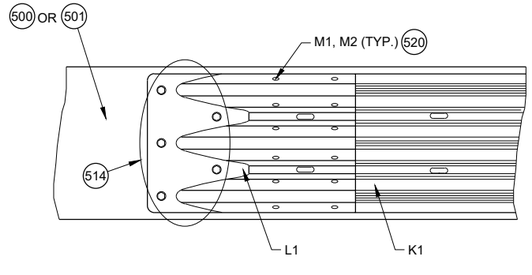
PLAN DETAIL VIEW
TRANSITION TO RIGID BARRIER



FRONT DETAIL VIEW
TRANSITION TO RIGID BARRIER



BACK DETAIL VIEW
TRANSITION TO RIGID BARRIER

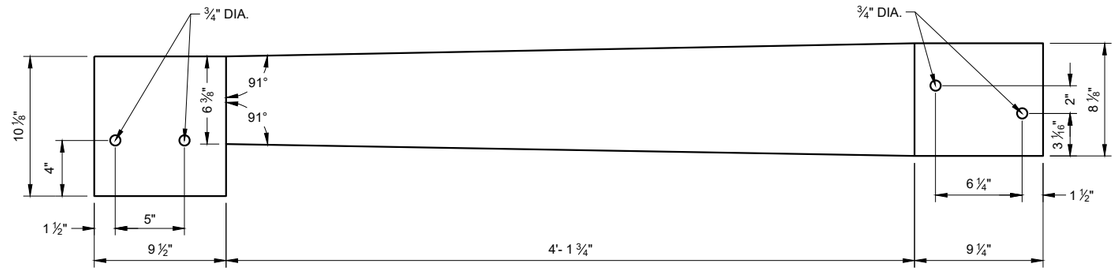


(517) DETAIL PLAN VIEW
THRIE BEAM RAIL TERMINAL CONNECTOR ASSEMBLY

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

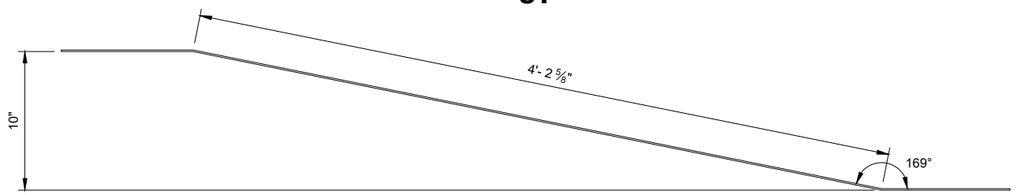
6

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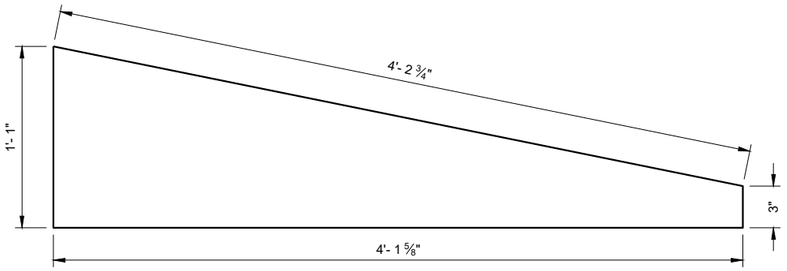
TOP VIEW

S1



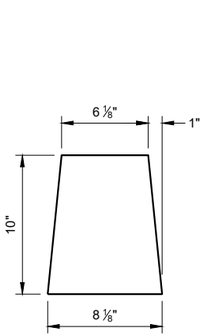
ELEVATION VIEW

S1

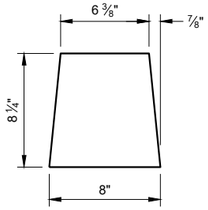


SIDE VIEW

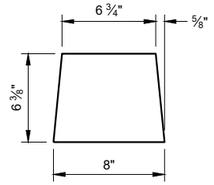
S3



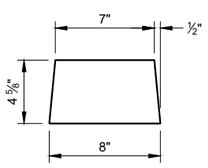
S2



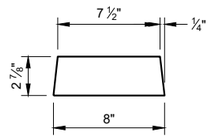
S4



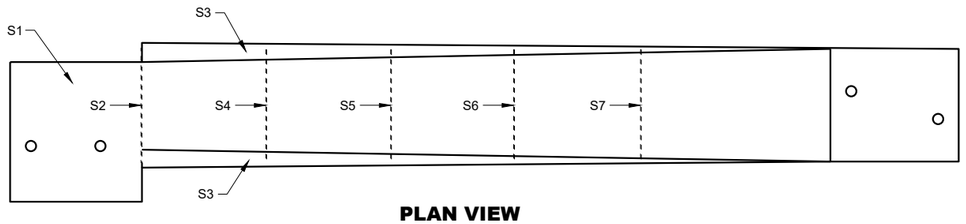
S5



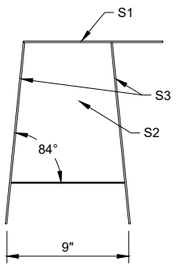
S6



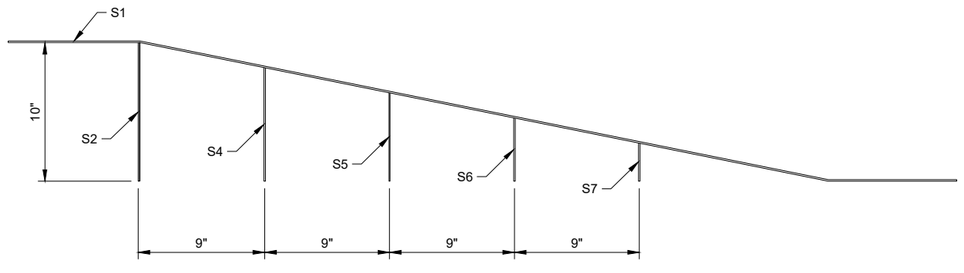
S7



PLAN VIEW



BACK VIEW



SIDE VIEW (600)

42" TOP CAP ASSEMBLY

GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THREE SIDES

STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

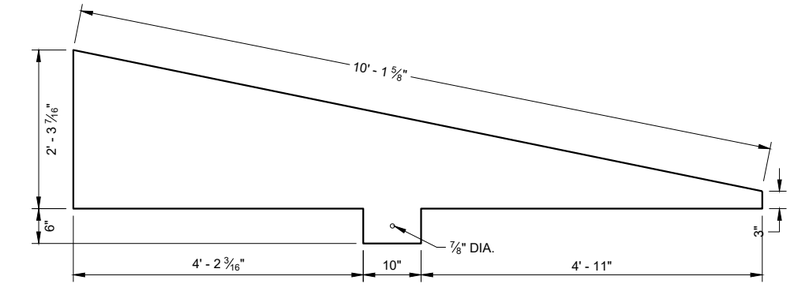
(600) SIDE PLATES (S3) NOT SHOWN FOR CLARITY.

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
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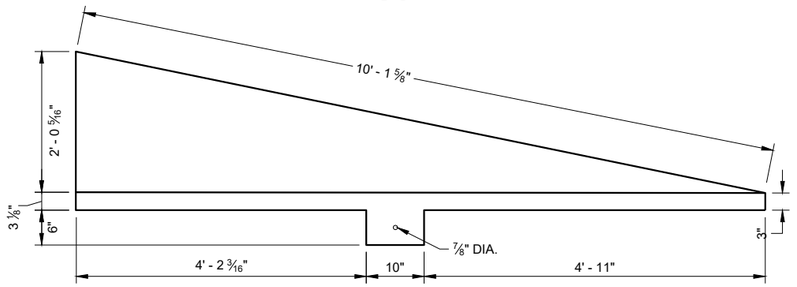
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SIDE VIEW
T4



END VIEW



SIDE VIEW
T3

END VIEW

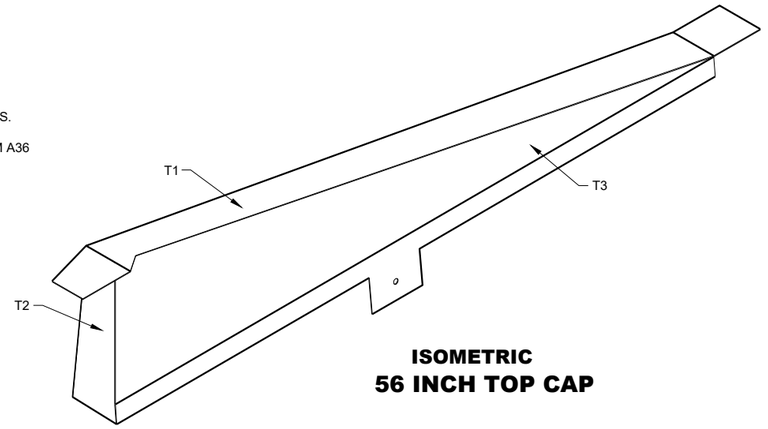
GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THRIE SIDES

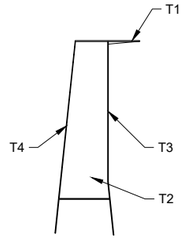
STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

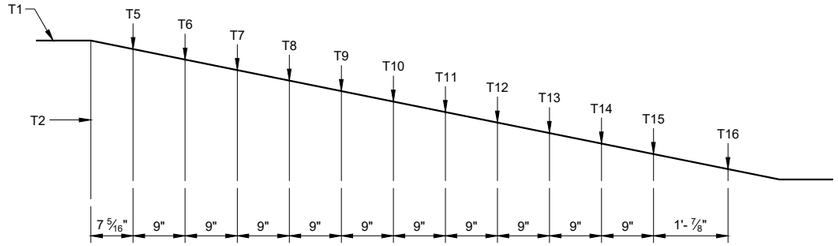
(700) SIDE PLATES (T3 AND T4) NOT SHOWN FOR CLARITY.



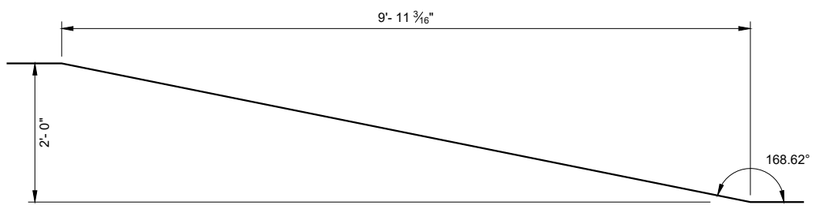
ISOMETRIC
56 INCH TOP CAP



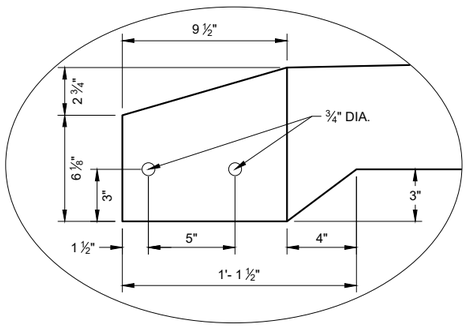
END VIEW
56 INCH TOP CAP



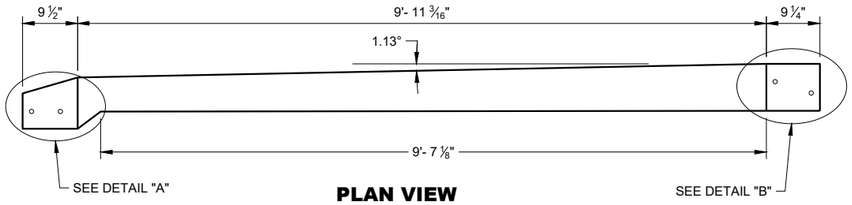
SIDE VIEW (700)
56 INCH TOP CAP



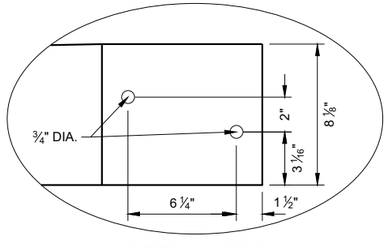
SIDE VIEW
TOP PLATE T1



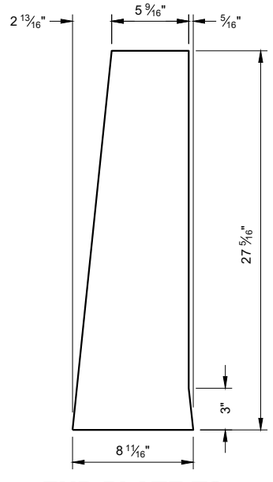
DETAIL "A"



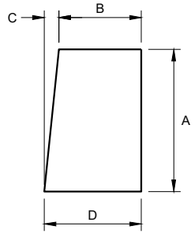
PLAN VIEW
TOP PLATE T1



DETAIL "B"



END PLATE T2



GUSSET PLATES
T5 - T16

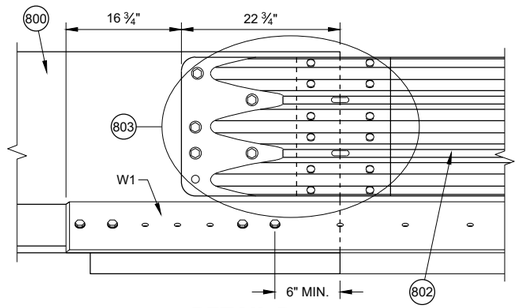
GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
T5	22 13/16"	5 1/16"	2 5/16"	8 1/16"
T6	21"	5 7/8"	2 3/16"	8 1/16"
T7	19 3/16"	6 1/16"	1 15/16"	8 1/16"
T8	17 3/8"	6 1/4"	1 13/16"	8 1/16"
T9	15 5/16"	6 7/16"	1 9/16"	8 1/16"
T10	13 3/4"	6 5/8"	1 7/16"	8 1/16"
T11	11 15/16"	6 13/16"	1 1/4"	8 1/16"
T12	10 1/8"	7"	1 1/16"	8 1/16"
T13	8 5/16"	7 3/16"	7/8"	8 1/16"
T14	6 1/2"	7 3/8"	1 1/16"	8 1/16"
T15	4 11/16"	7 9/16"	1/2"	8"
T16	2 7/8"	7 3/4"	1/4"	8"

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

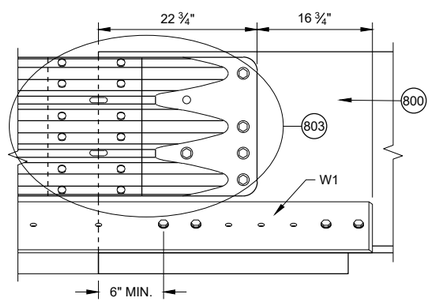
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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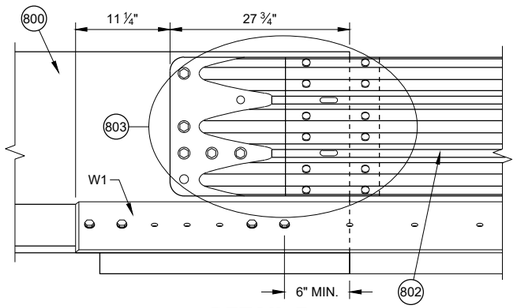
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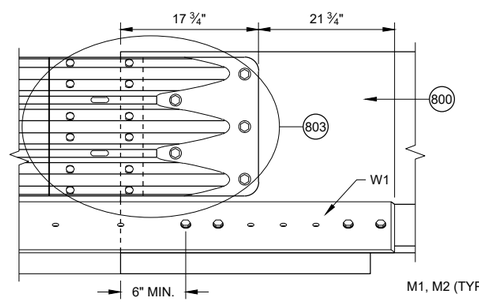
DETAIL D



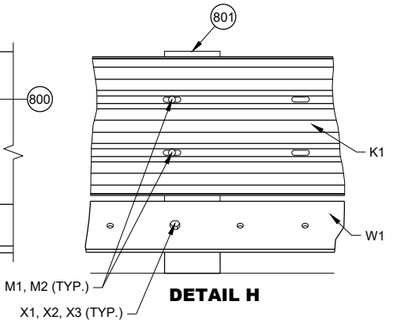
DETAIL E



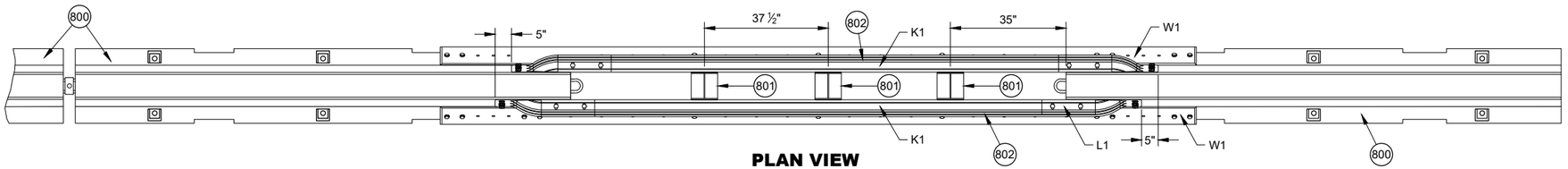
DETAIL F



DETAIL G



DETAIL H



PLAN VIEW

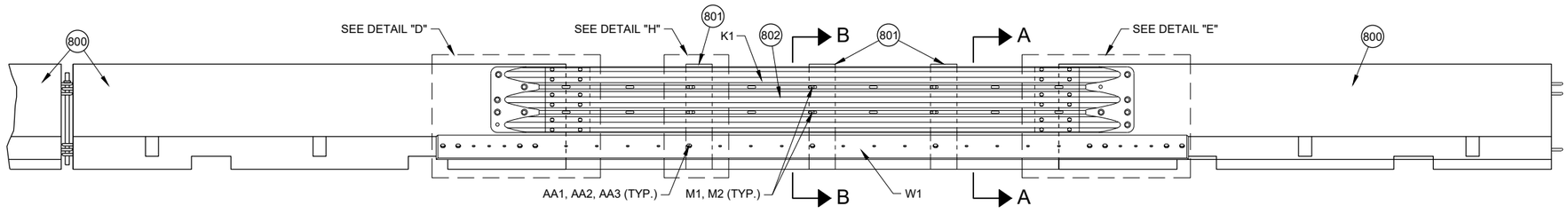
GENERAL NOTES

(800) FREE STANDING TEMPORARY BARRIER

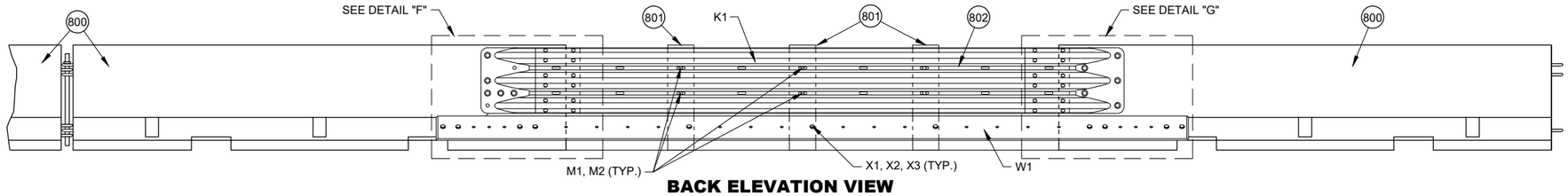
(801) GAP STIFFENER ASSEMBLY

(802) THRIE BEAMS ARE NESTED ON BOTH SIDES OF THE TEMPORARY BARRIER.

(803) SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL



FRONT ELEVATION VIEW



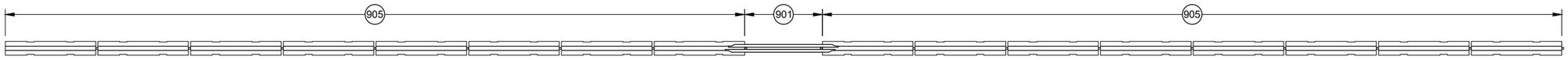
BACK ELEVATION VIEW

PORTABLE CONCRETE BARRIER GAP THRIE BEAM COVER

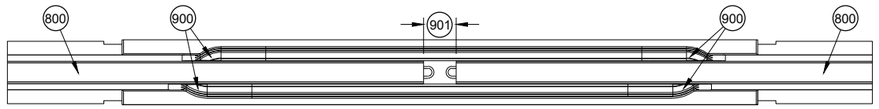
CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B07-16h



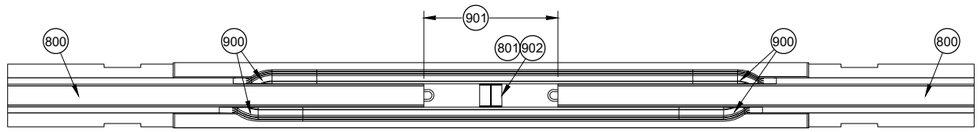
PLAN VIEW
GAP WITHIN SPACING



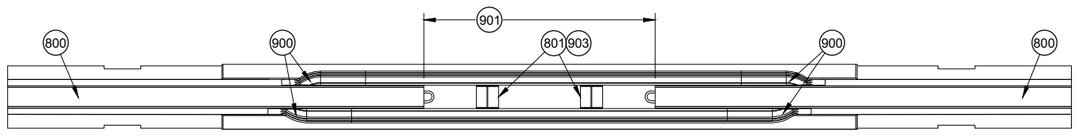
PLAN VIEW
TEMPORARY BARRIER GAP OVER 4" TO 1' MAX. (904)

GENERAL NOTES

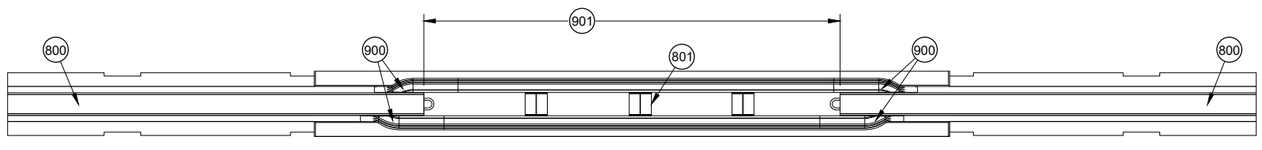
(900) SEE OTHER DETAILS FOR TEMPORARY GAP HARDWARE (TYP.)
(901) TEMPORARY BARRIER GAP
(902) GAP STIFFENER ASSEMBLY CENTERED IN THE GAP.
(903) GAP STIFFENER ASSEMBLY IS OFFSET 18 ¾" FROM CENTER
(904) MINIMUM NUMBER OF GAP STIFFENERS SHOWN FOR THE GAP RANGE SHOWN.
(905) MINIMUM OF 8 CONTINUOUS FREE STANDING TEMPORARY BARRIERS



PLAN VIEW
TEMPORARY BARRIER GAP OVER 1' TO 4' MAX. (904)



PLAN VIEW
TEMPORARY BARRIER GAP OVER 4' TO 7' MAX. (904)

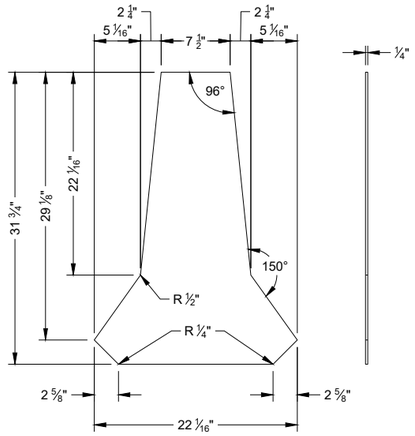


PLAN VIEW
TEMPORARY BARRIER GAP OVER 7' TO 12.5' MAX. (904)

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

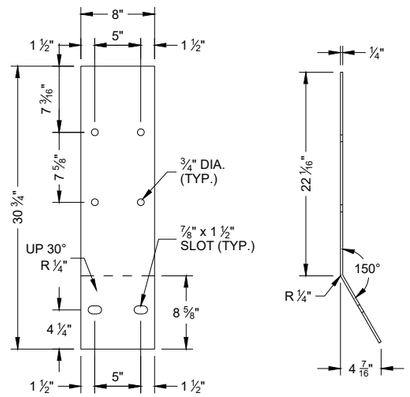
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B07-16i



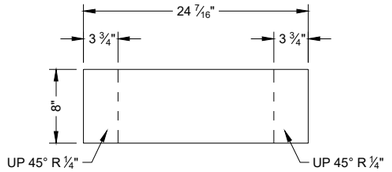
PROFILE VIEW SIDE VIEW

STIFFENER ASSEMBLY CENTER PANEL U1

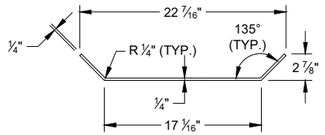


FLAT PATTERN SIDE VIEW

STIFFENER ASSEMBLY SIDE PANEL U2

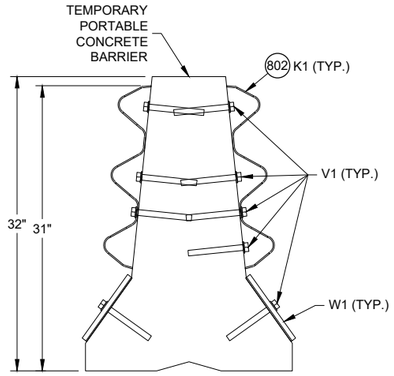


FLAT PATTERN

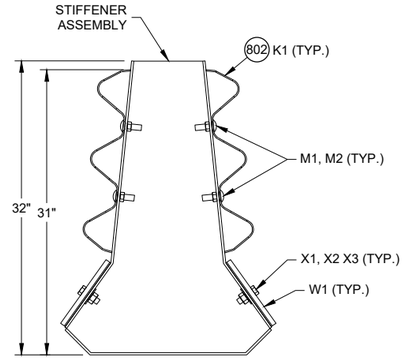


PROFILE VIEW

STIFFENER ASSEMBLY BOTTOM PANEL U3



SECTION A - A



SECTION B - B

PLAN VIEW

PROFILE VIEW

SIDE VIEW

ISOMETRIC

GAP STIFFENER ASSEMBLY

PLAN VIEW

SIDE VIEW

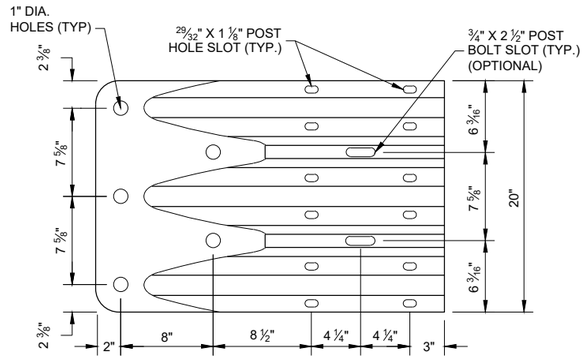
ELEVATION VIEW

W1 TOE PLATE

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

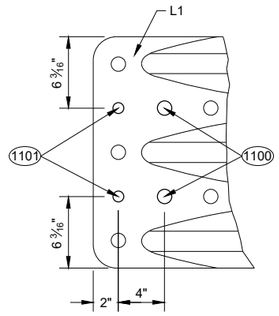
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ELEVATION VIEW

THRIE BEAM TERMINAL CONNECTOR



ELEVATION VIEW

ADDITIONAL THRIE BEAM (1102) TERMINAL CONNECTOR HOLE DETAIL

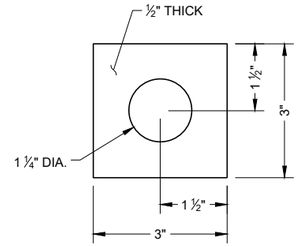


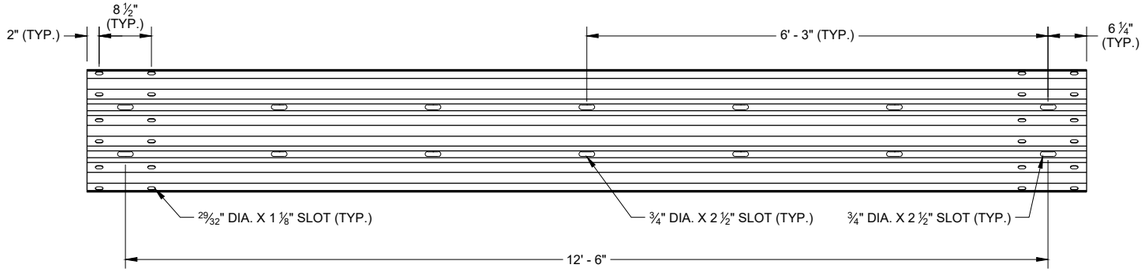
PLATE WASHER DETAIL G2, H3

GENERAL NOTES

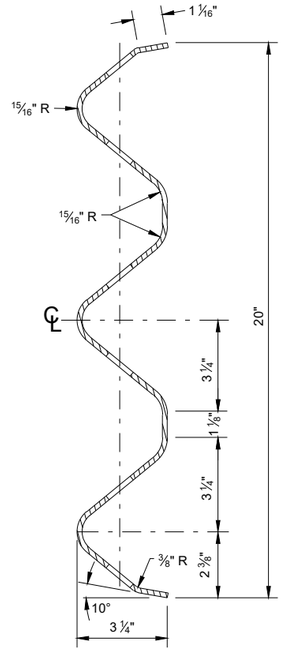
(1100) 1" DIA. HOLE

(1101) 3/4" DIA. HOLE

(1102) PROVIDE HOLES IN THRIE BEAM TERMINAL CONNECTOR TO LIMIT STEEL REINFORCEMENT OR LOOP BAR CONFLICT. CONTRACTOR MAY FIELD DRILL ADDITIONAL HOLE OR PROVIDE THRIE BEAM TERMINAL CONNECTOR WITH ADDITIONAL HOLES FROM SUPPLIER.



SLOTTED THRIE BEAM RAIL K1



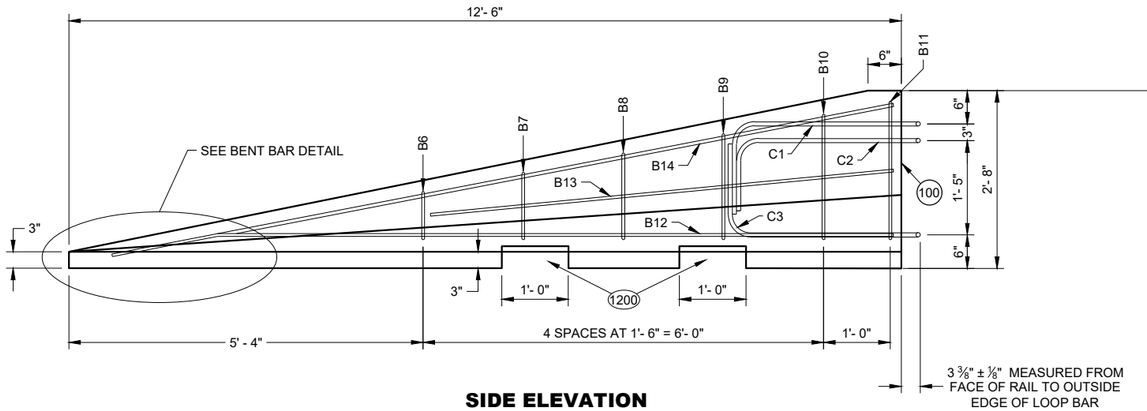
SECTION THROUGH BEAM K1

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

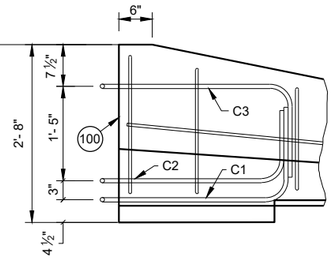
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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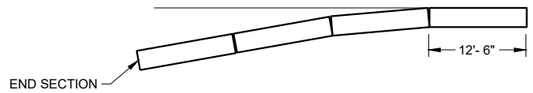
SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED FOR OPPOSITE END
(FOR CONNECTION TO RIGHT END OF BARRIER)

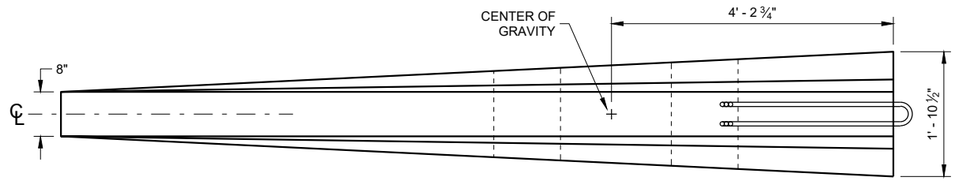
GENERAL NOTES

(1200) SEE LIFTING SLOT DETAIL. LOCATION OF LIFTING SLOTS DETERMINED BY CONTRACTOR.

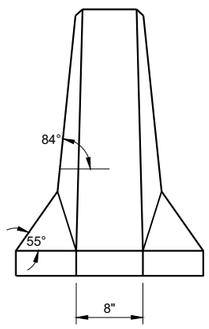


FLARE AT BARRIER END

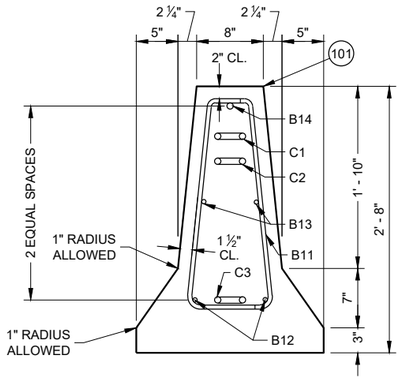
POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1



PLAN VIEW

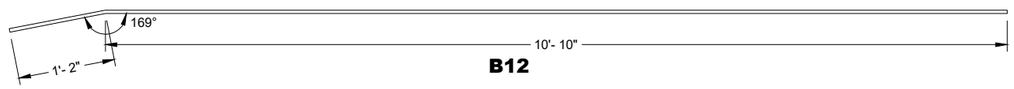


FRONT ELEVATION

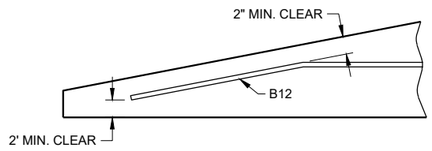


END SECTION

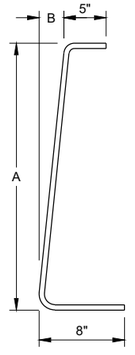
DETAILS OF BARRIER TAPER SECTION



B12



BENT BAR DETAIL



BAR	A	B
B6	10"	1"
B7	1'- 1"	1 ¼"
B8	1'- 5"	1 ⅝"
B9	1'- 8"	1 ⅞"
B10	2'- 0 ½"	2 ⅜"
B11	2'- 3"	2 ¾"

B BARS
2 OF EACH SIZE REQUIRED FOR STIRRUP ASSEMBLY

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	PRECAST TEMPORARY BARRIER - CONCRETE	MIN. = f'c 5000 PSI	
B1	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B2	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-2"
B3	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B4	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 6'-0"
B5	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#6 REBAR, LENGTH 2'-11"
B6	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 1'-11"
B7	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-2"
B8	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-6"
B9	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-9"
B10	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-2"
B11	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-4"
B12	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-0"
B13	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 7'-9"
B14	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 11'-9"
C1	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C2	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C3	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
D1	CONNECTION PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ¼" DIA.
D2	CONNECTION PIN - TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G1	BOLT THROUGH ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A OR SAE J429 GRADE 2 UNC	1 ⅛" DIA.
G2	BOLT THROUGH ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G3	BOLT THROUGH ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
H1	ADHESIVE ANCHOR - ADHESIVE	ICC-ES-AC308 5 ¼" EMBEDMENT WITH A MIN. BOND STRENGTH OF 1,650 PSI. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
H2	ADHESIVE ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A / SAE J429 GRADE 2 UNC	1 ⅛" DIA.
H3	ADHESIVE ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
H4	ADHESIVE ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
J1	ASPHALT ANCHOR PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ½" DIA.
J2	ASPHALT ANCHOR PIN - STOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
K1	THRIE BEAM RAIL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE
L1	THRIE BEAM RAIL - TERMINAL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
M1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	⅝" DIA.
M2	SPLICE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
N1	THRIE BEAM RAIL TERMINAL - MECHANICAL ANCHOR	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA. LENGTH 6"
N2	THRIE BEAM RAIL TERMINAL - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
N3	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
P1	THRIE BEAM RAIL CONNECTION 1-BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA.
P2	THRIE BEAM RAIL CONNECTION 1-WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
P3	THRIE BEAM RAIL CONNETION 1- MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
Q1	BLOCK WOOD	SEE STANDARD SPEC. 614	
R1	CAP - BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	⅝" DIA.
R2	CAP- BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
R3	CAP - BOLT - MECHANICAL ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	12 GAUGE
S1	CAP 42-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S2	CAP 42-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S3	CAP 42-INCH SIDE PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S4	CAP 42-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S5	CAP 42-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S6	CAP 42-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S7	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE

6

SDD 14B07-16m

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B07-16m

BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
T1	CAP 56-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T2	CAP 56-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T3	CAP 56-INCH SIDE PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T4	CAP 56-INCH SIDE PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T5	CAP 56-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T6	CAP 56-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T7	CAP 56-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T8	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T9	CAP 42-INCH GUSSET 5	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T10	CAP 42-INCH GUSSET 6	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T11	CAP 42-INCH GUSSET 7	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T12	CAP 42-INCH GUSSET 8	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T13	CAP 42-INCH GUSSET 9	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T14	CAP 42-INCH GUSSET 10	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T15	CAP 42-INCH GUSSET 11	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T16	CAP 42-INCH GUSSET 12	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
U1	GAP STIFFENER	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U2	GAP STIFFENER - CONNECTOR PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U3	GAP STIFFENER - CONNECTOR PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
V1	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 24.0 KIPS AND ULTIMATE SHEAR LOAD 21.5 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	¾" DIA.
V2	GAP STIFFENER - BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C O R MECHANICAL GALVANIZE TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
W1	TOE PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
X1	TOE PLATE - CONNECTION BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC HEAVY HEX HEAD OR AASTHO M180 HEAD, ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED. PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	¾" DIA.
X2	TOE PLATE - CONNECTION BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1 (HARDEN WASHER ONLY)	
X3	TOE PLATE - CONNECTION BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	

6

SDD 14B07-16n

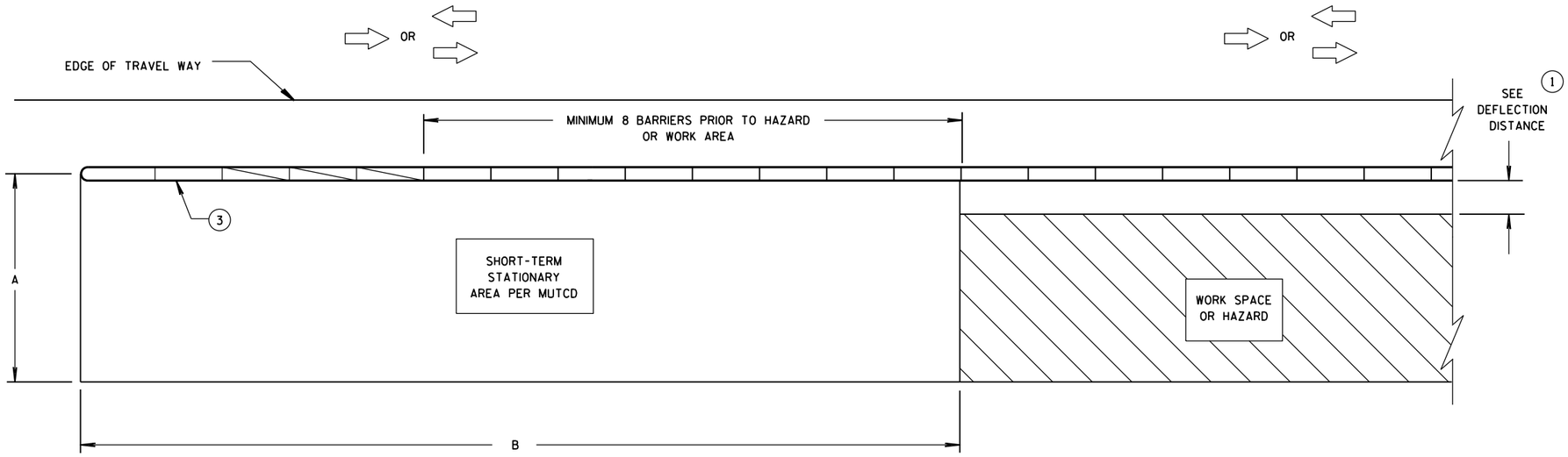
CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD 14B07-16n



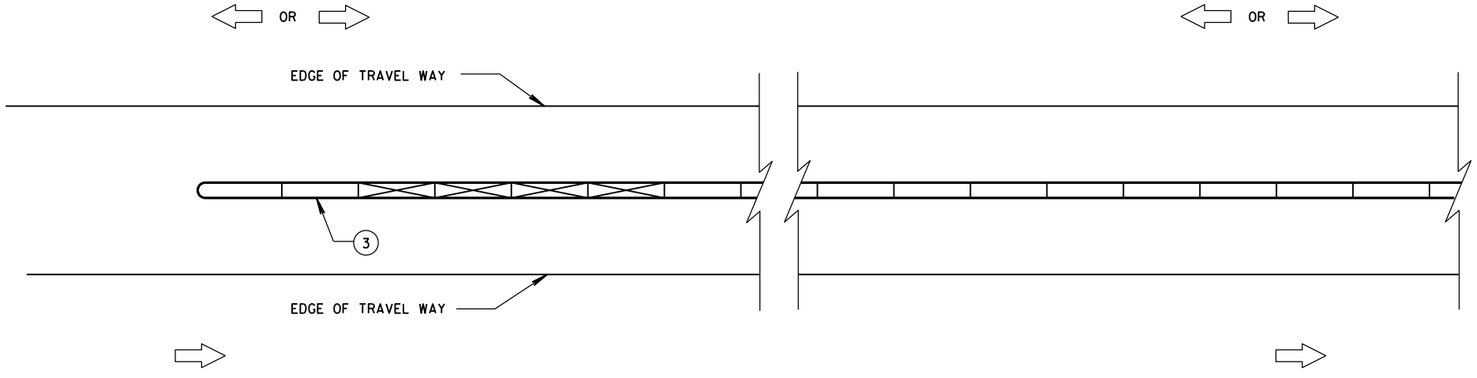
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

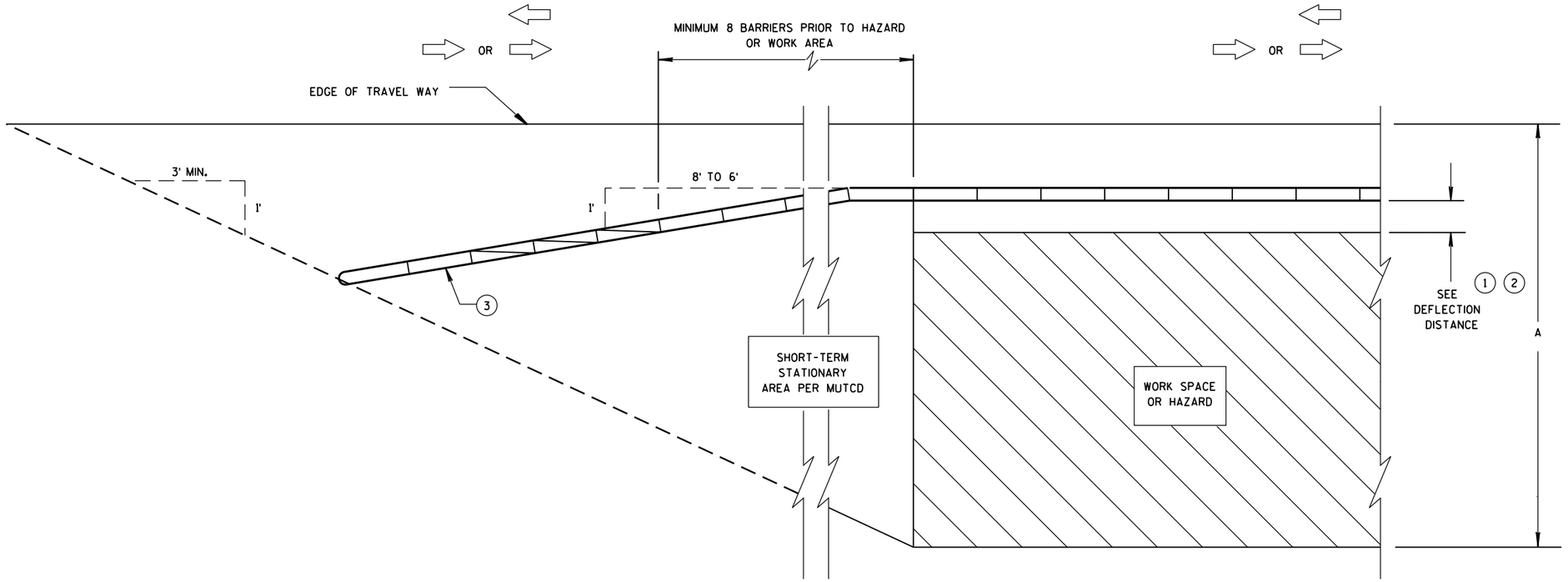
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

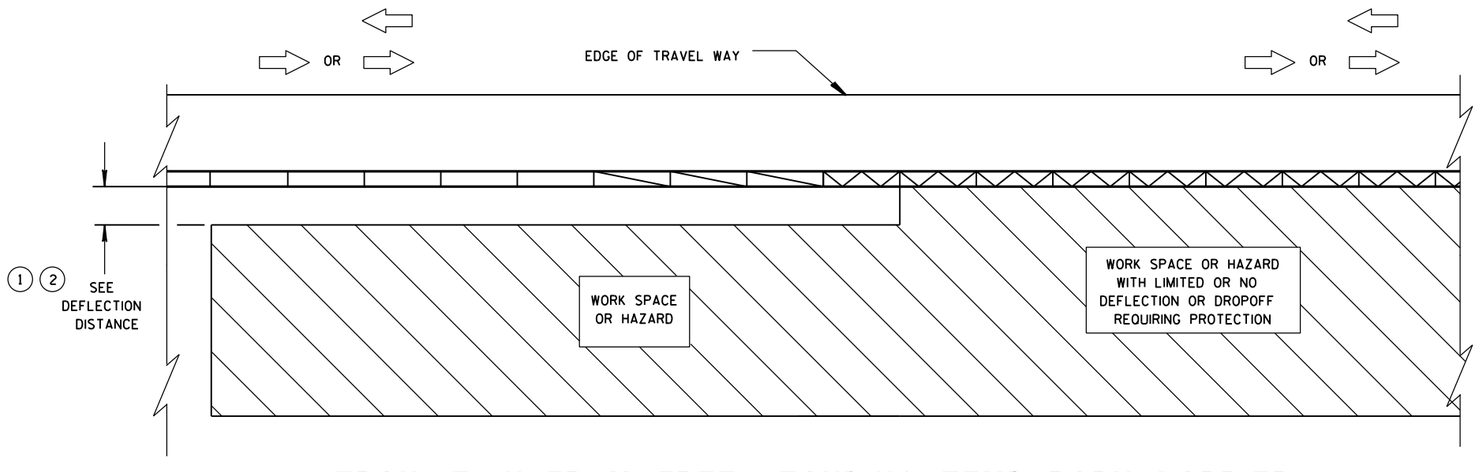
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 8-2a
S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

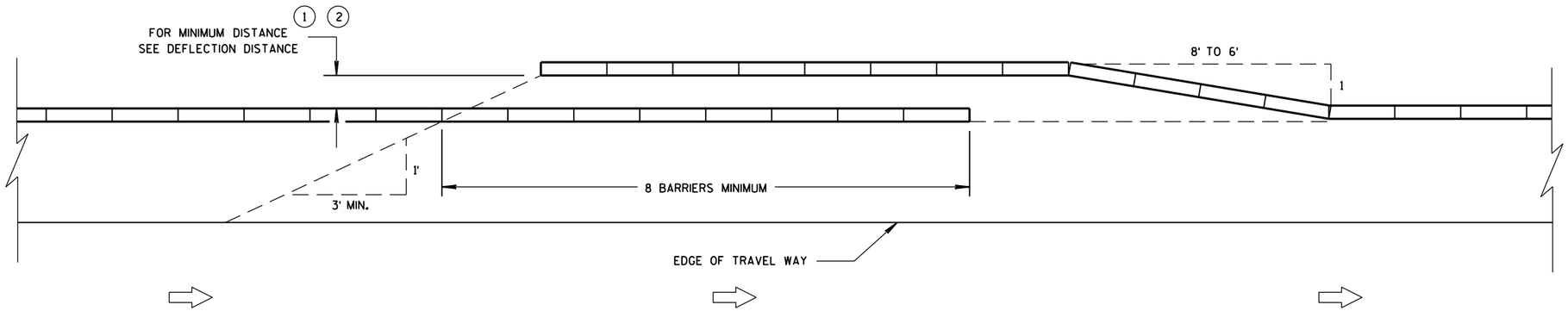
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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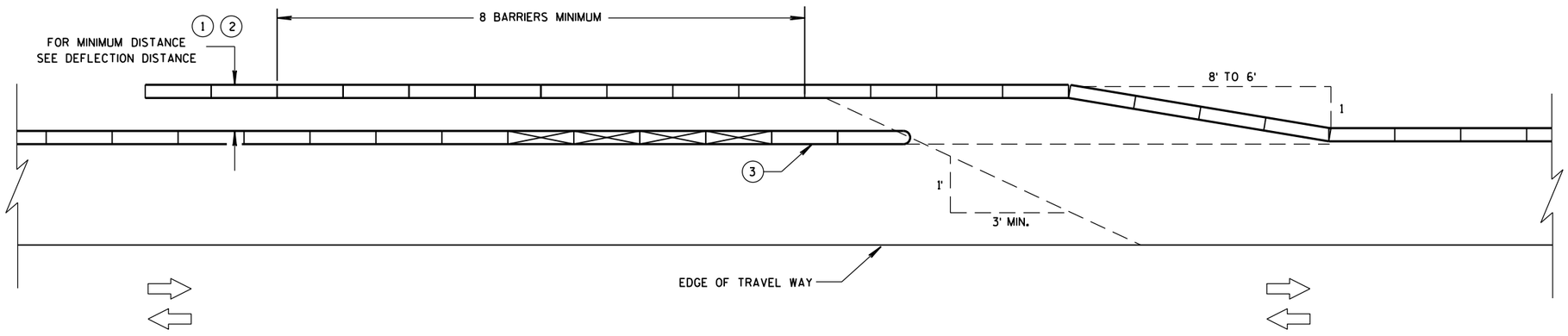
S.D.D. 14 B 8-2b

6

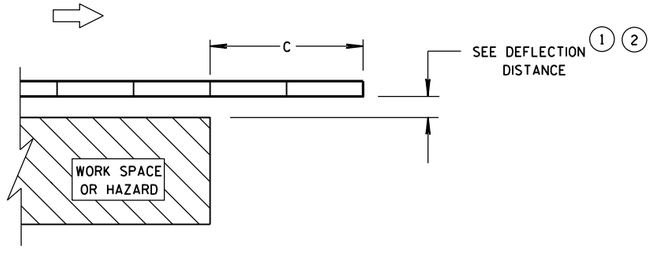
S.D.D. 14 B 8-2b



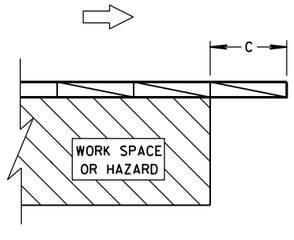
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

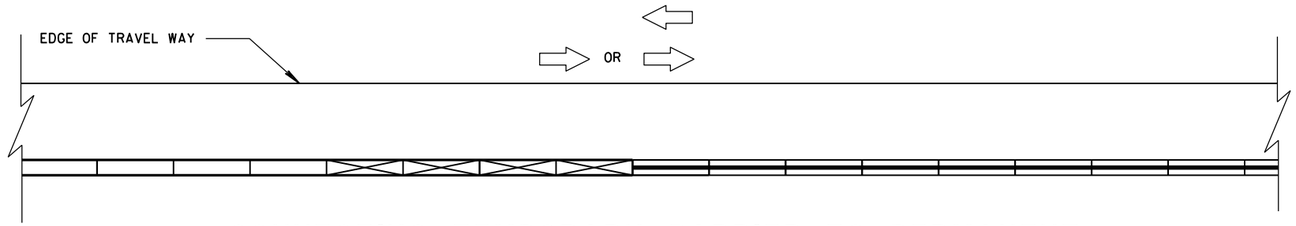
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

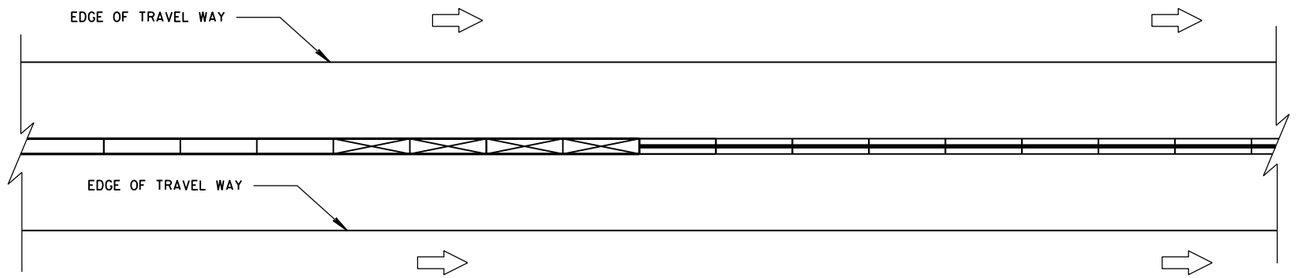
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 8-2c



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR
SAND BARREL ARRAY

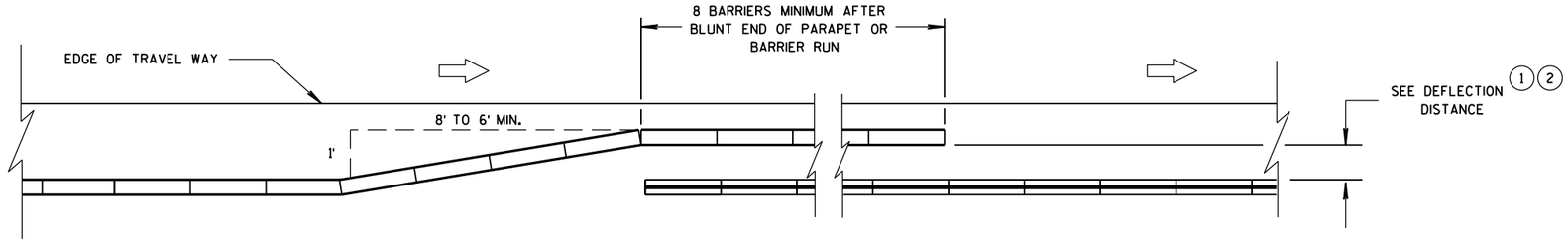
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

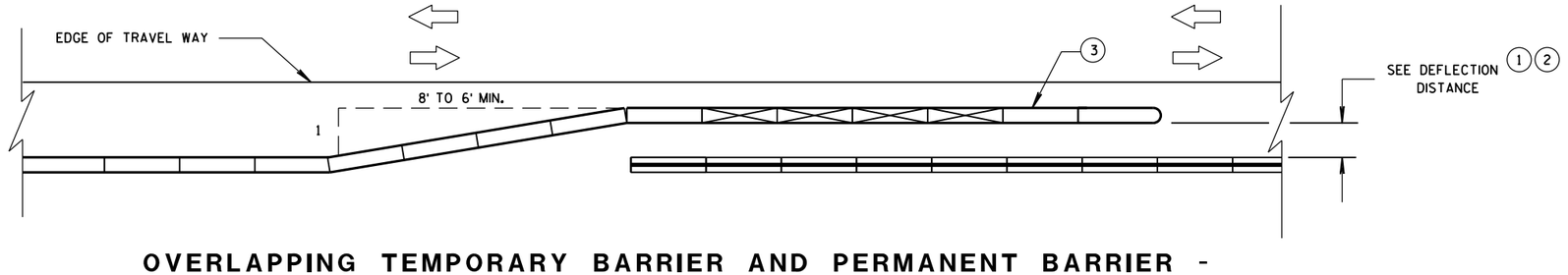
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

FREE STANDING TEMPORARY
BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

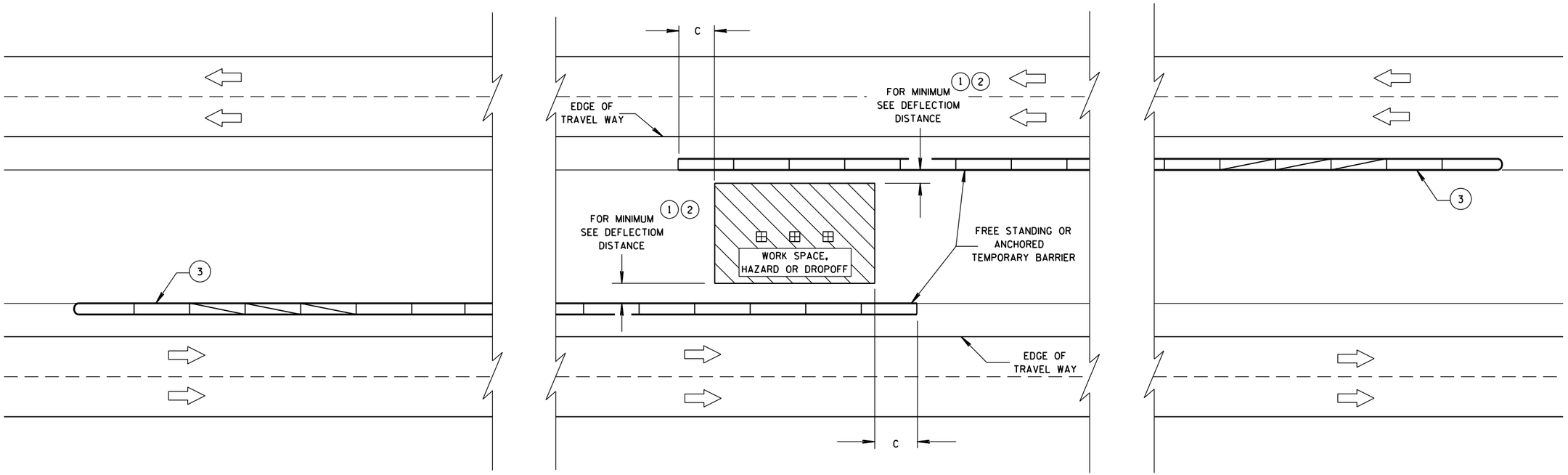
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



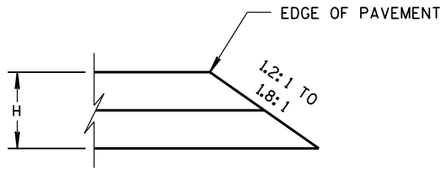
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINNER
FHWA

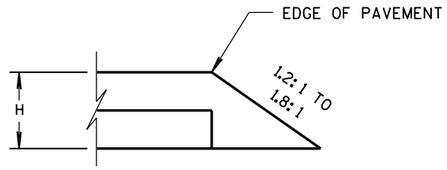
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S.D.D. 14 B 8-2e



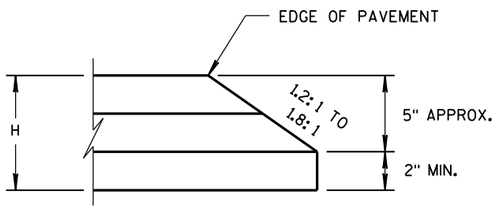
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



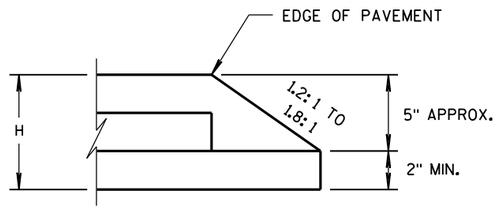
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

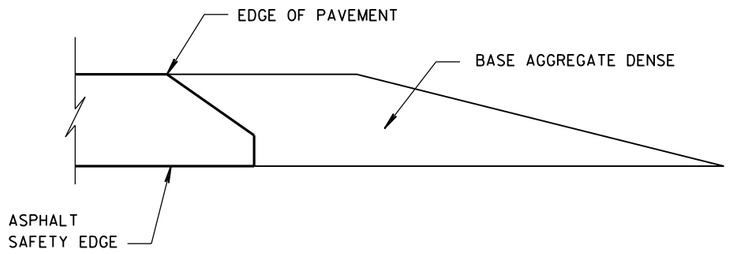
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

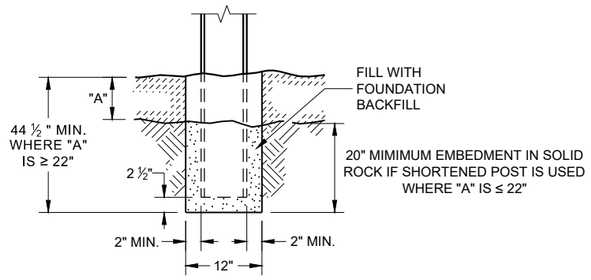
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

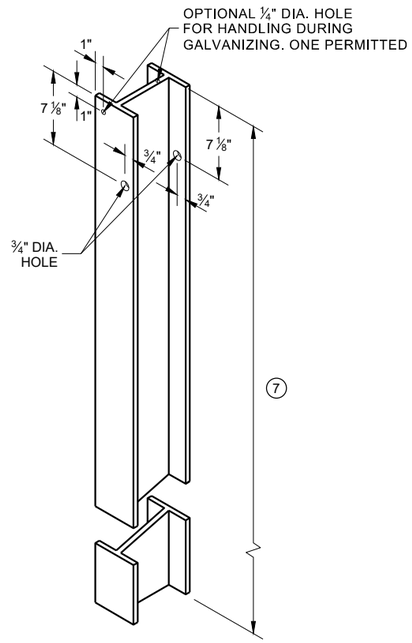
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

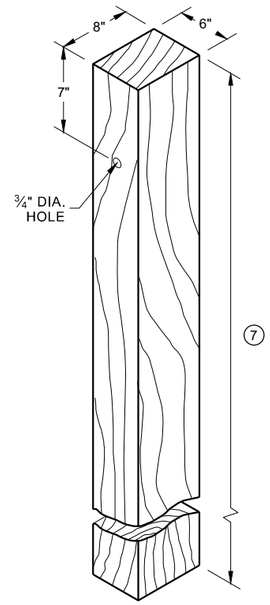
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



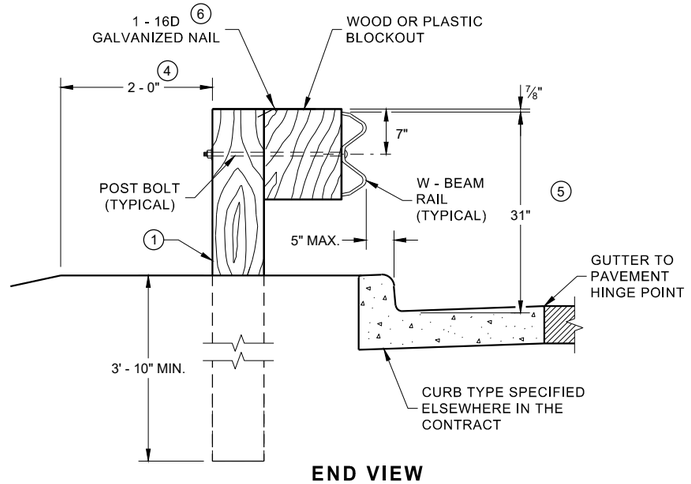
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



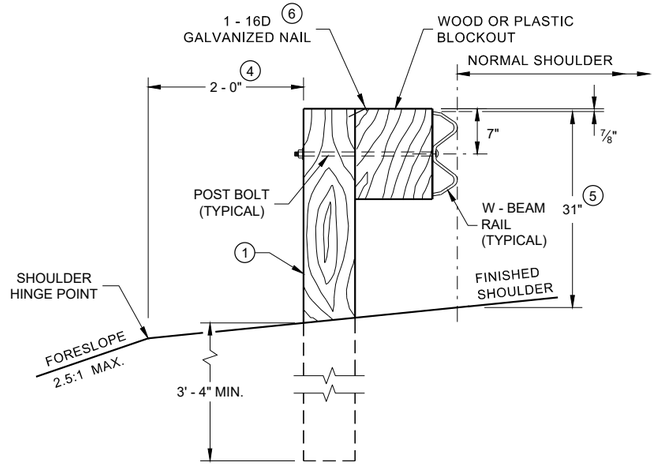
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



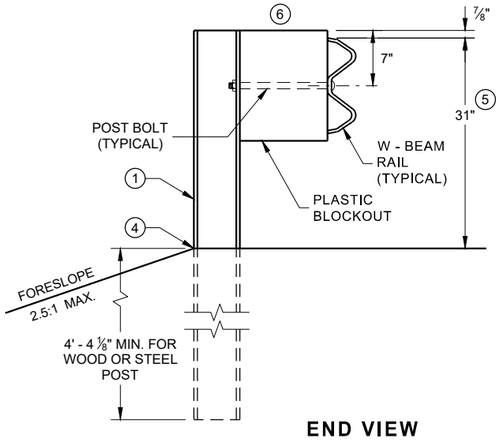
WOOD POST (6" X 8") NOMINAL (1)



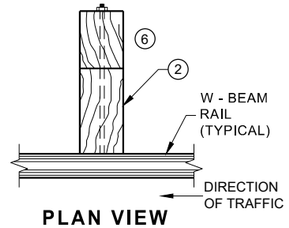
END VIEW
LOCATED ALONG A CURBED ROADWAY



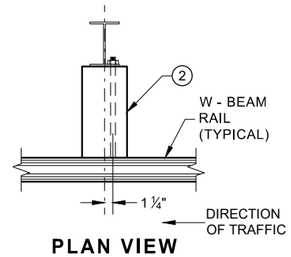
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



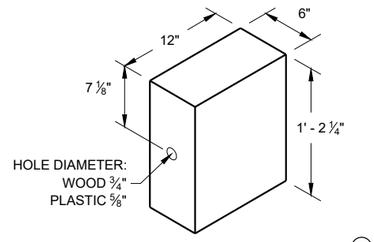
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



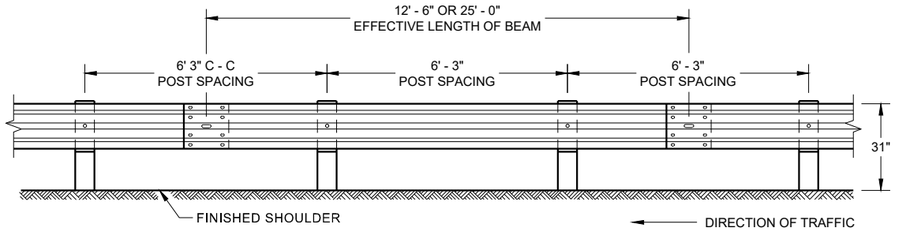
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

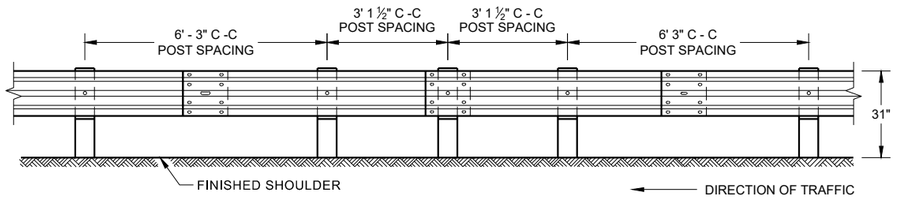
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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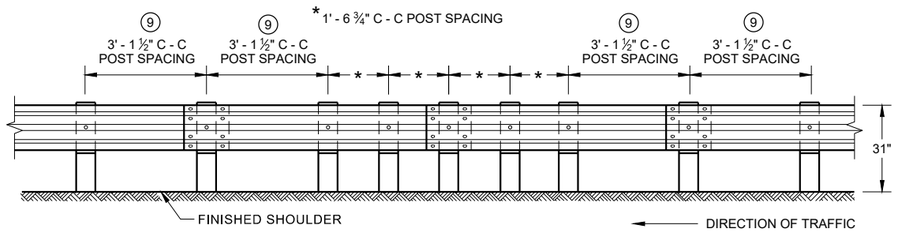
SDD 14B42 - 07a
SDD 14B42 - 07a



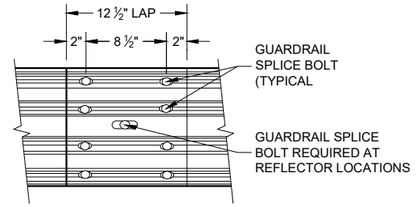
FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

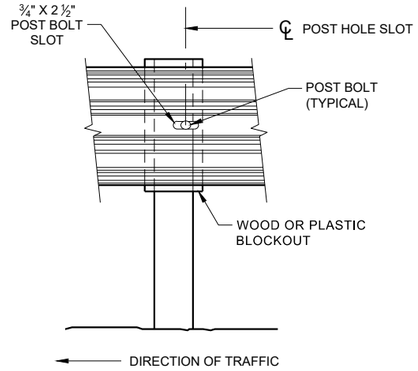
GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

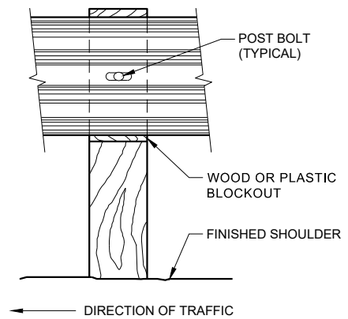
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

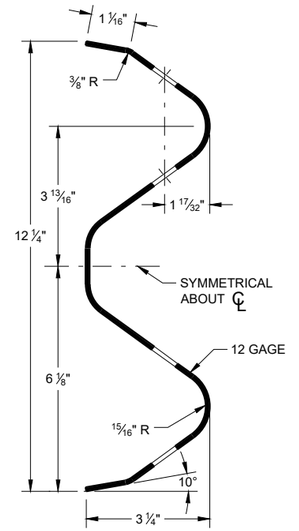
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



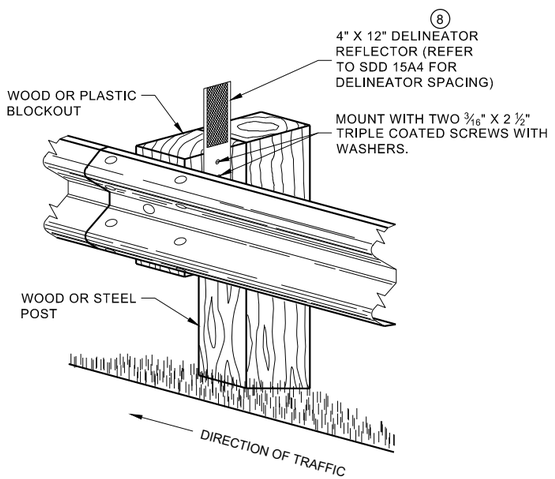
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



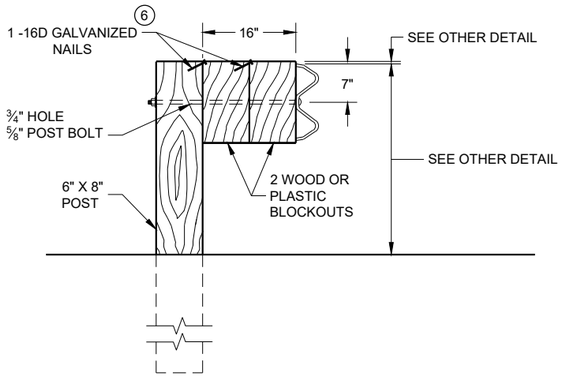
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B42 - 07b

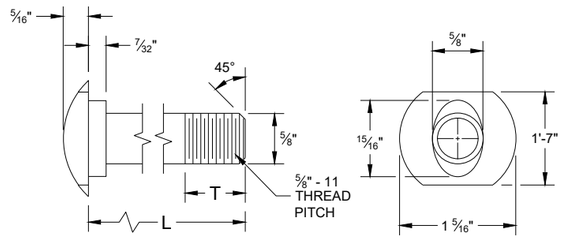


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

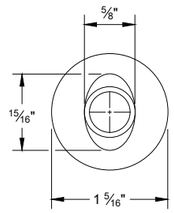
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

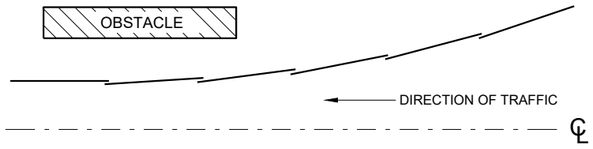


POST BOLT TABLE

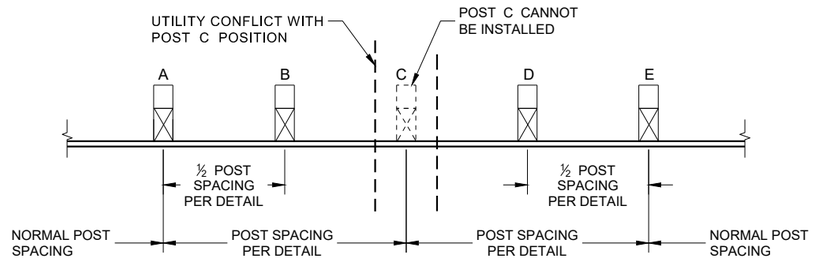
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



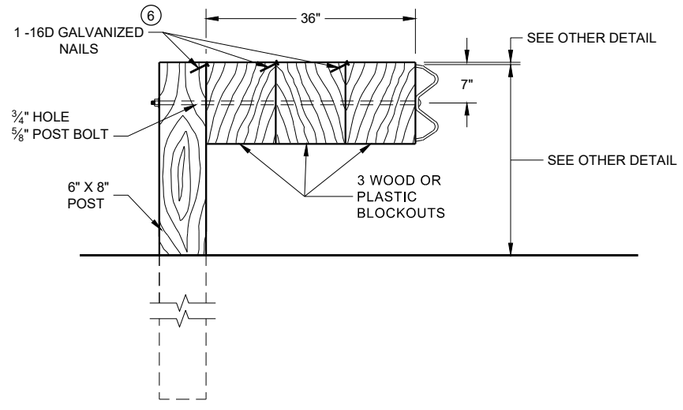
ALTERNATE BOLT HEAD



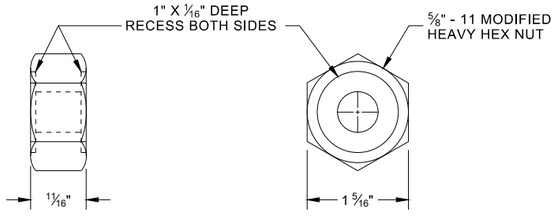
PLAN VIEW
BEAM LAPPING DETAIL



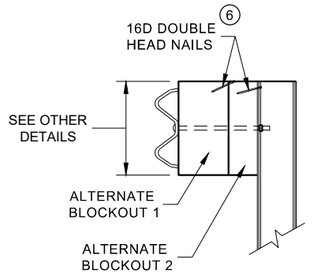
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



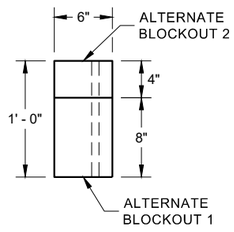
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

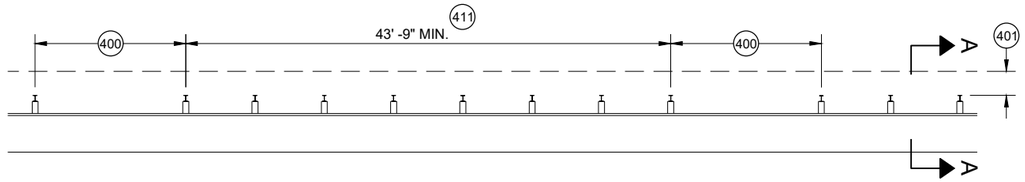
ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

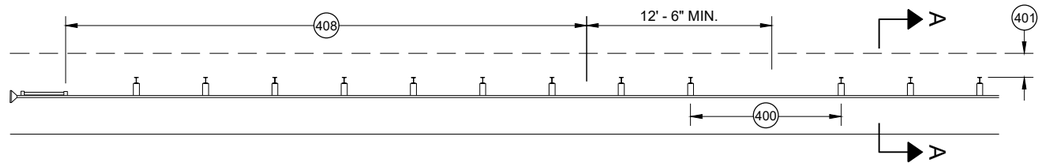
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

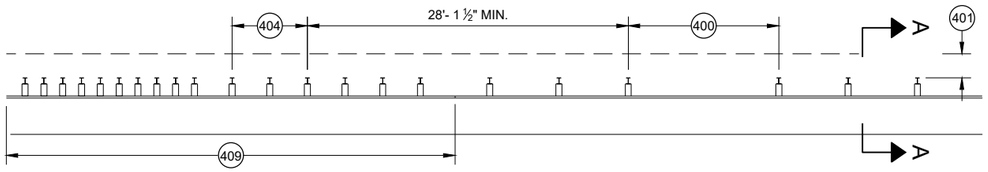
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL



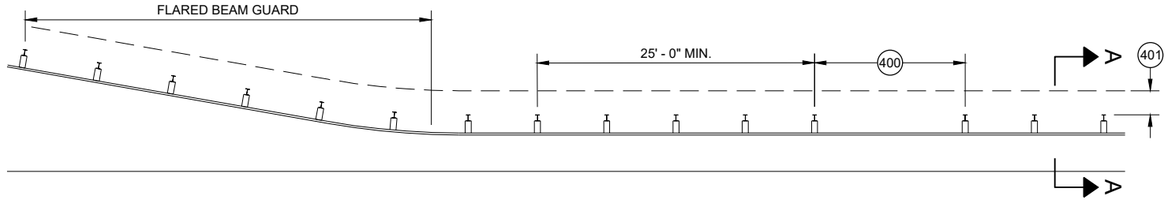
MISSING POST IN MGS GUARDRAIL



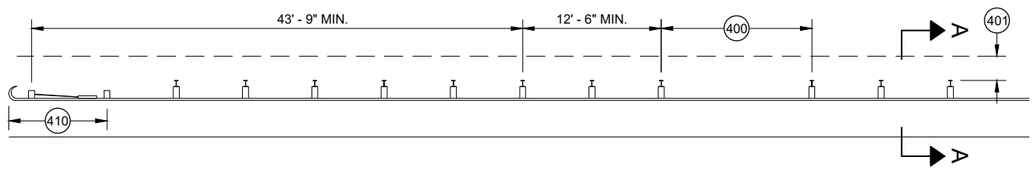
MISSING POST IN MGS GUARDRAIL NEAR EAT



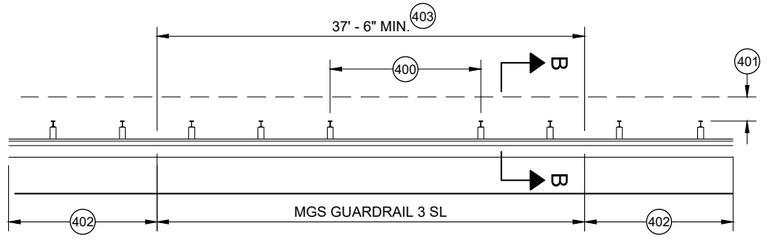
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

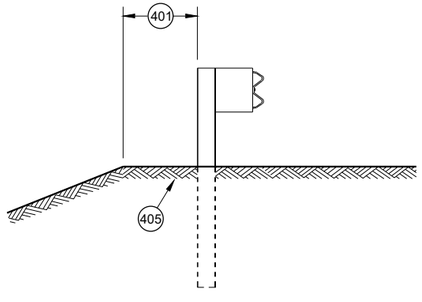


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

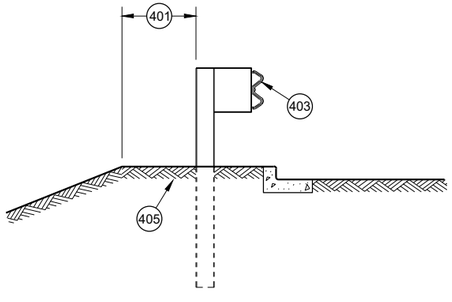


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

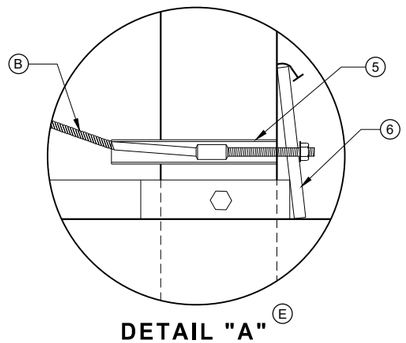
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

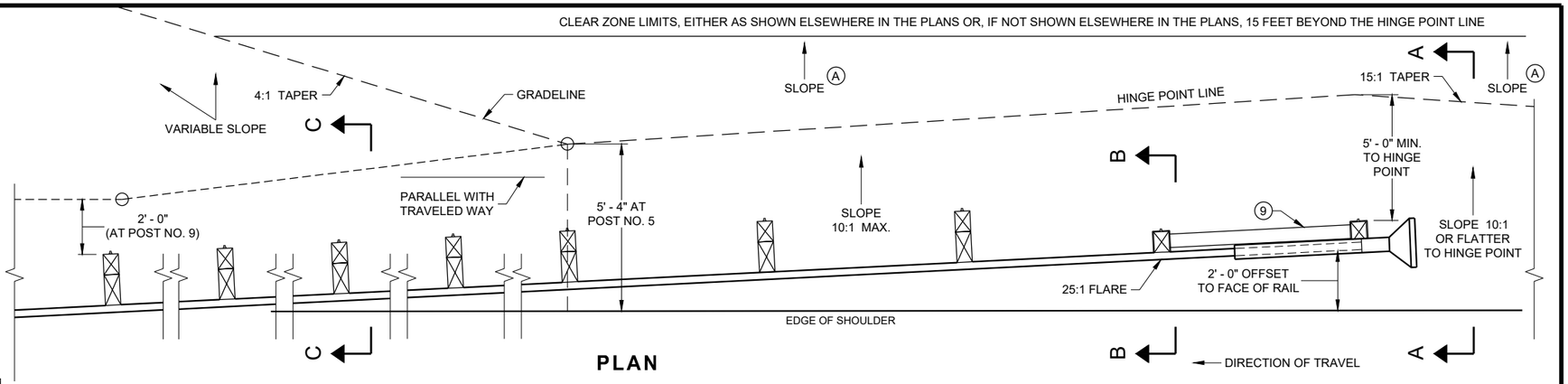
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

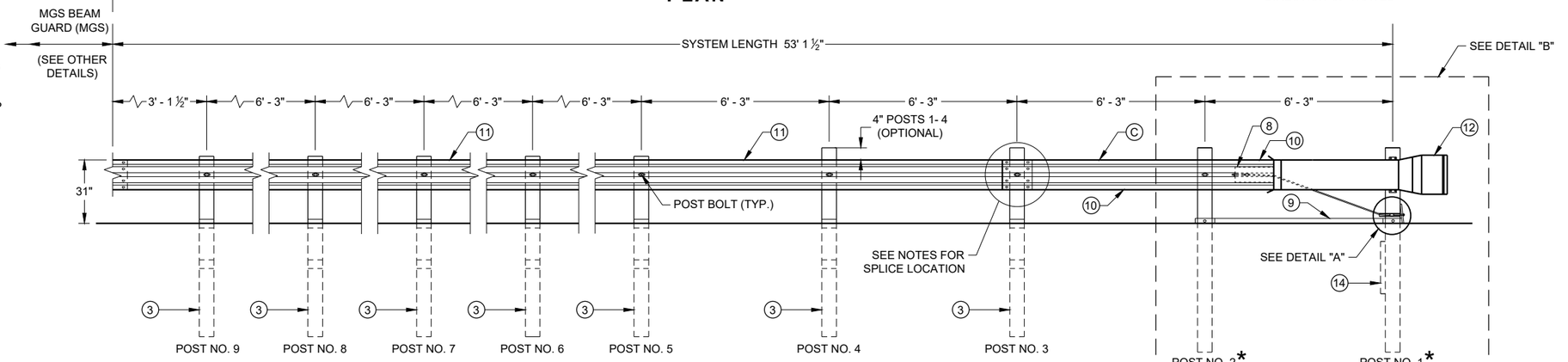
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



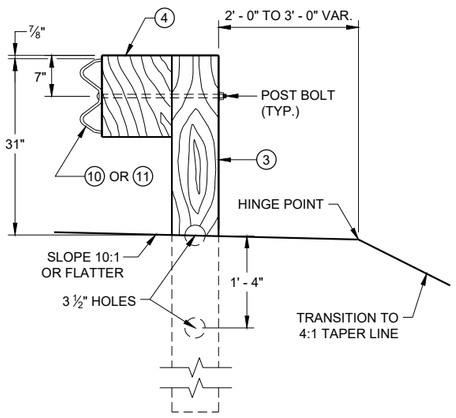
DETAIL "A" (E)



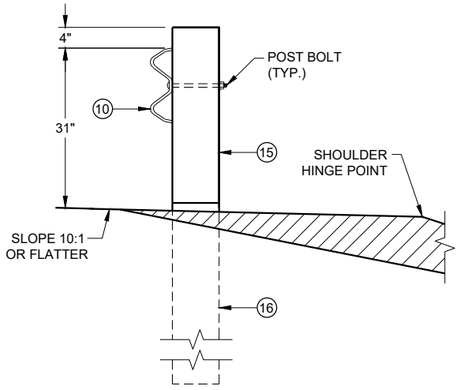
PLAN



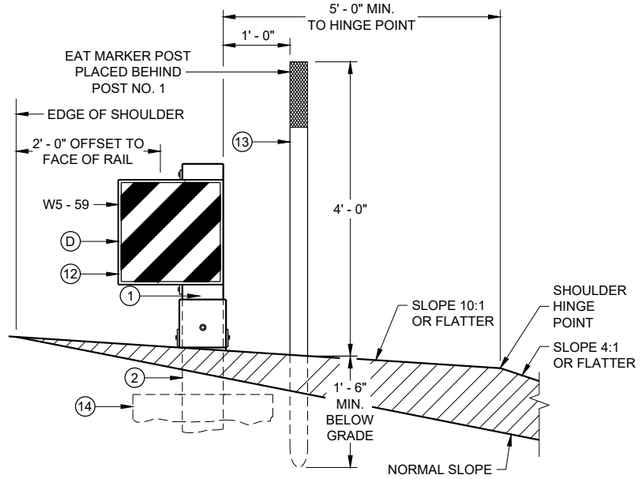
ELEVATION



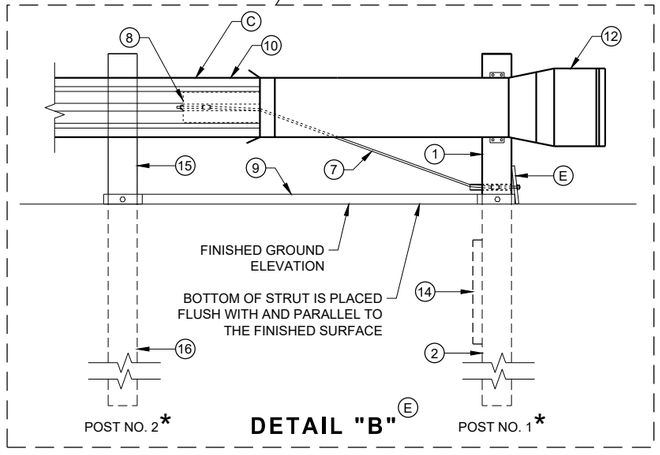
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



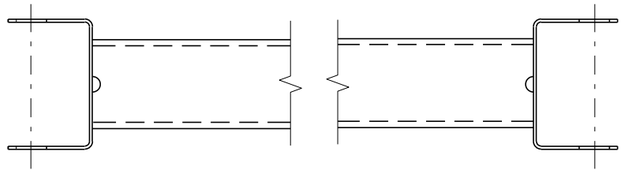
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

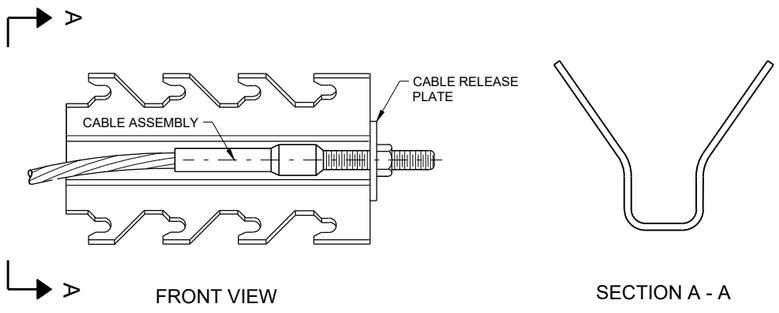
SDD 14B44 - 04a



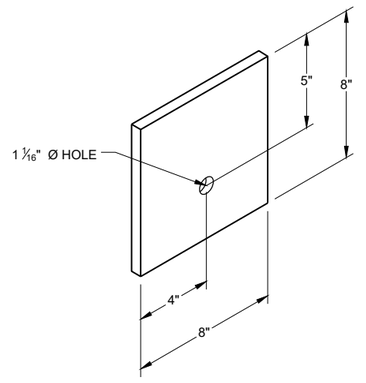
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

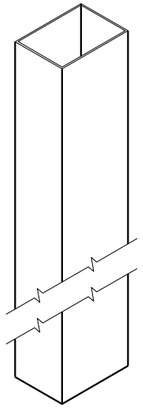
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SDD 14B44 - 04b

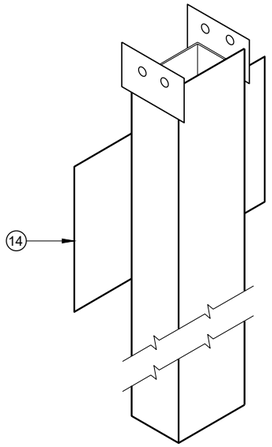
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

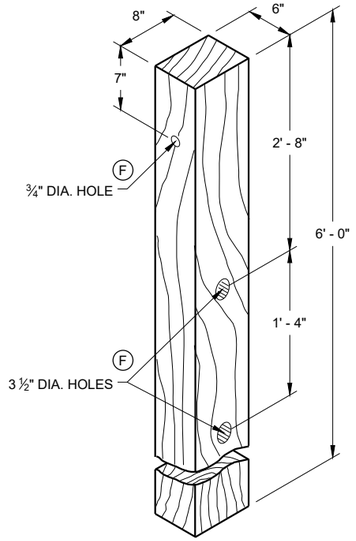
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



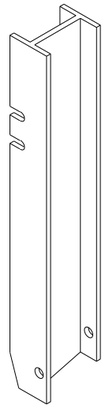
UPPER POST NO. 1 (1) (E)



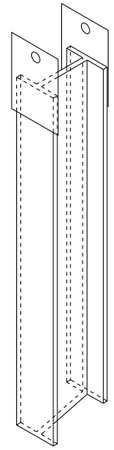
LOWER POST NO. 1 (2) (E)



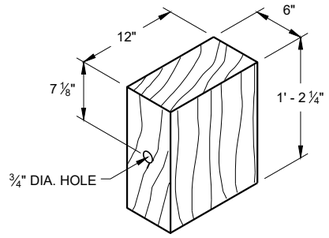
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



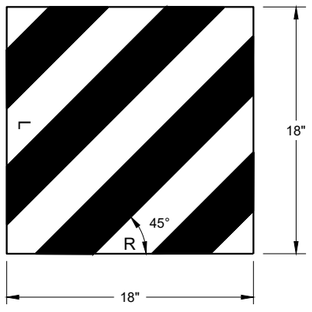
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

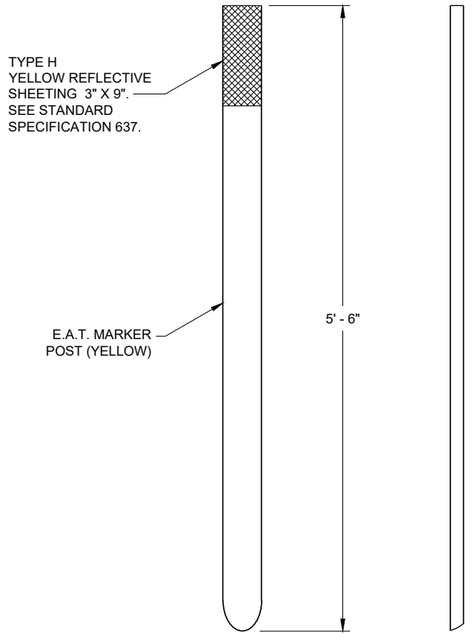


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



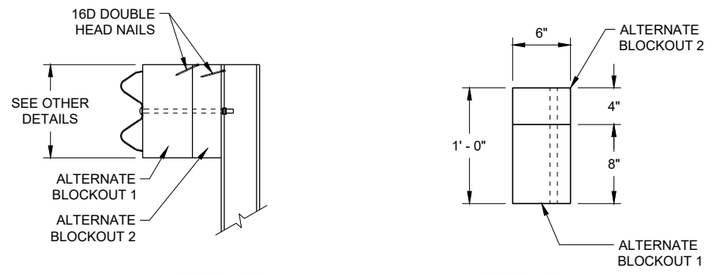
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

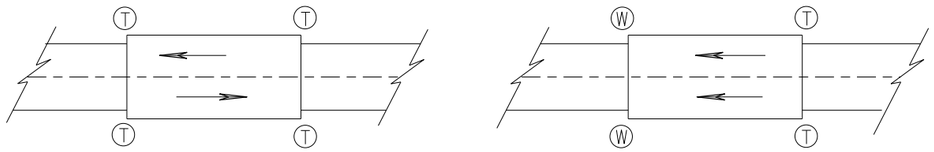
STATE OF WISCONSIN
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7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

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SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

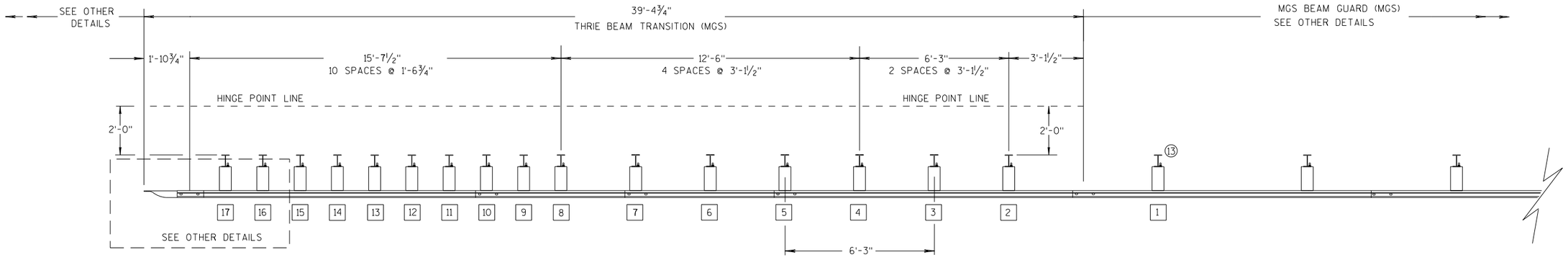
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

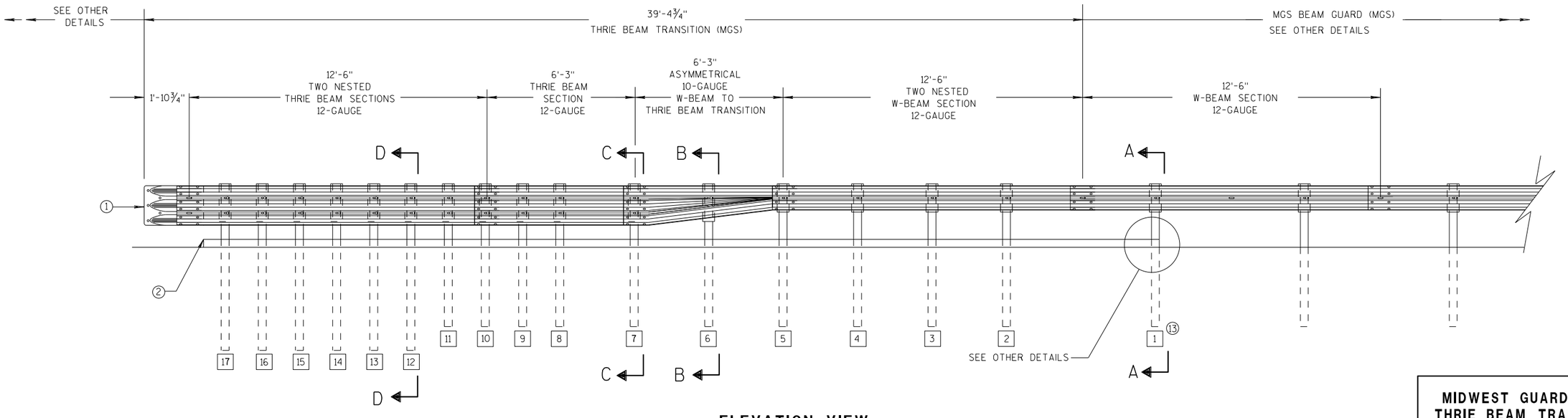
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 258

6

S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

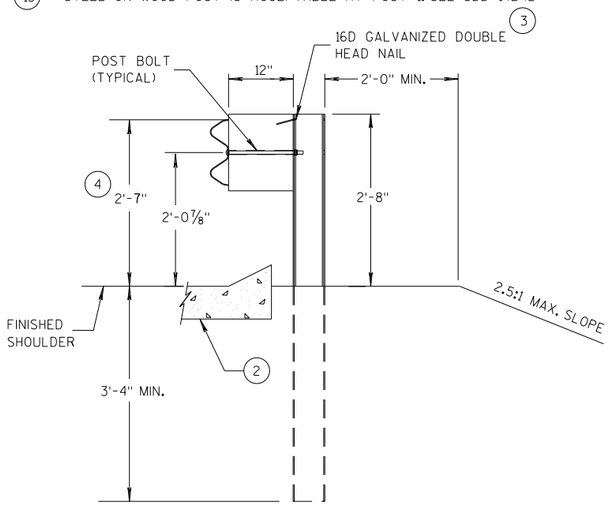
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

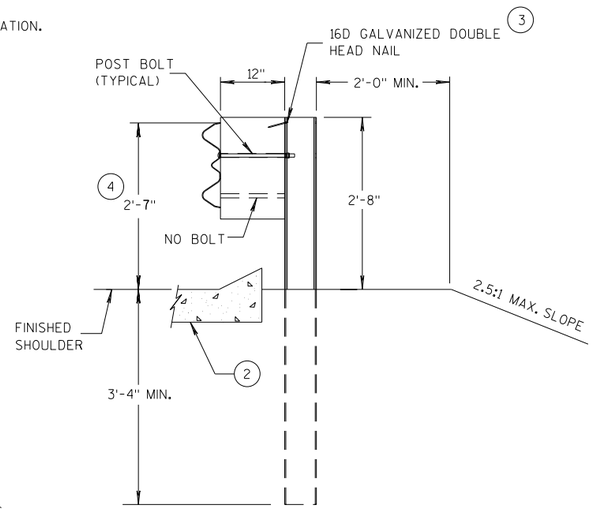
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



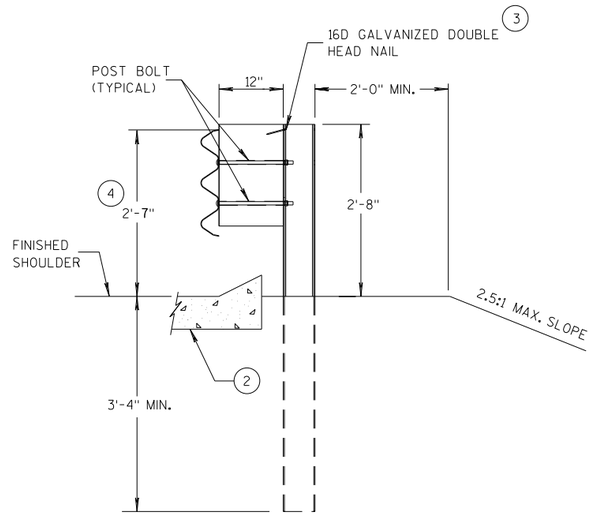
SECTION A-A (13)

POSTS 1-5



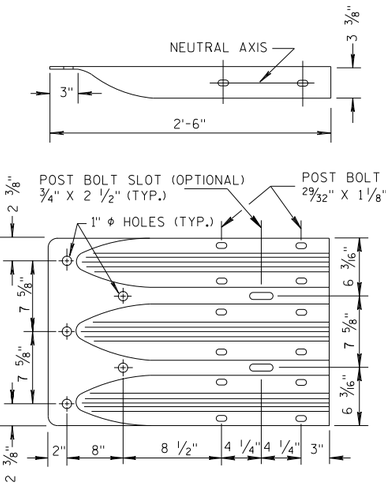
SECTION B-B

POST 6

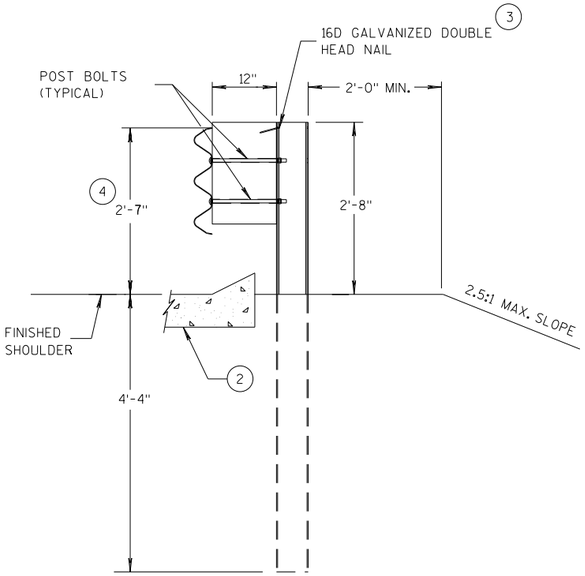


SECTION C-C

POSTS 7-11

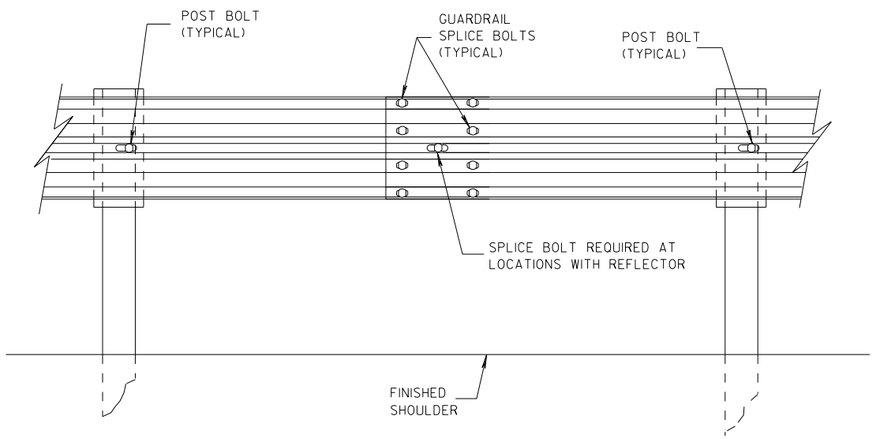


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

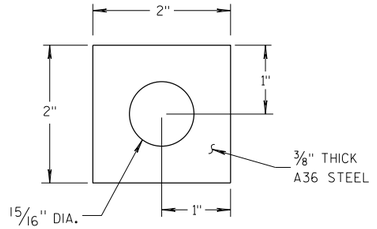
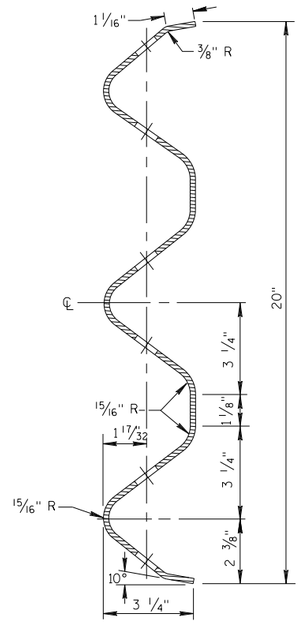


PLATE WASHER DETAIL



SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

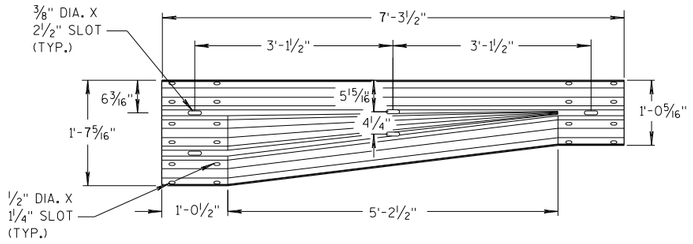
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 259

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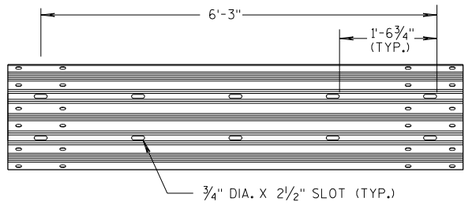
S.D.D. 14 B 45-5b

6

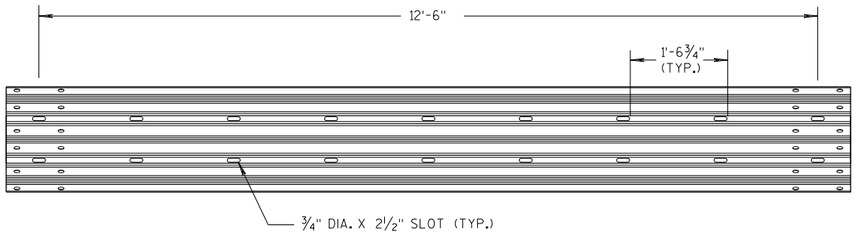
S.D.D. 14 B 45-5b



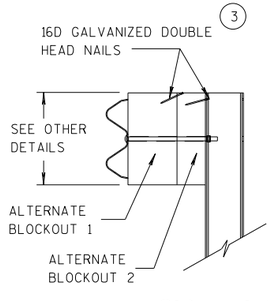
W-BEAM TO THRIE BEAM TRANSITION SECTION



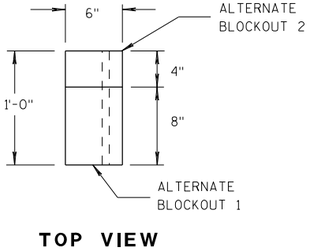
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

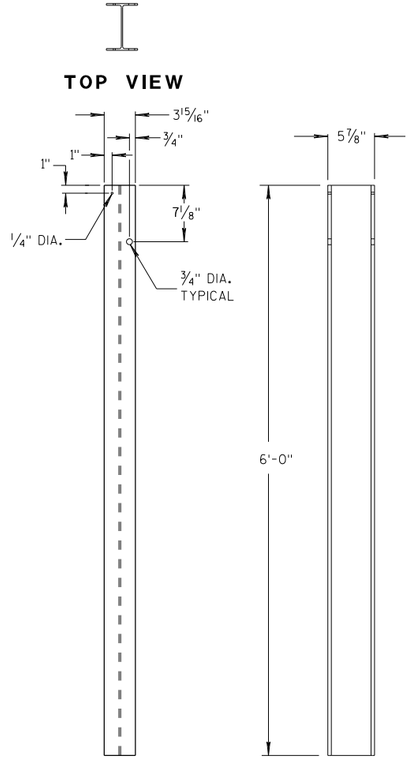


SIDE VIEW



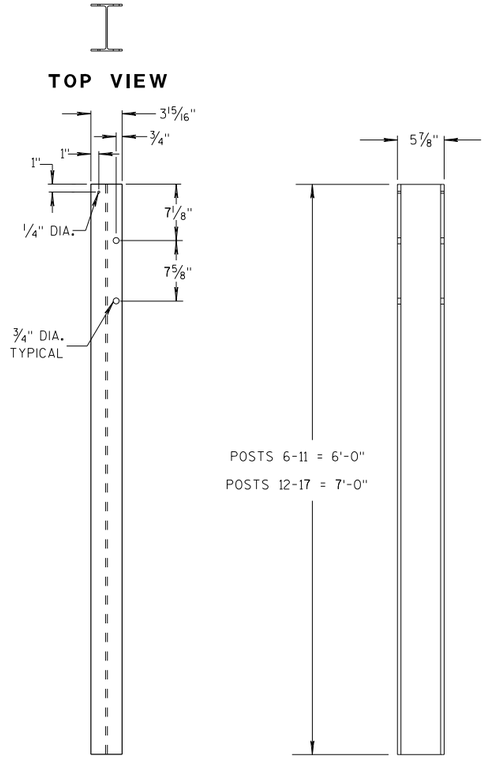
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



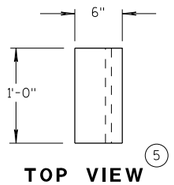
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

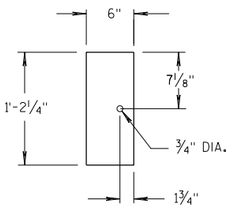


FRONT VIEW SIDE VIEW

STEEL POSTS 6-17

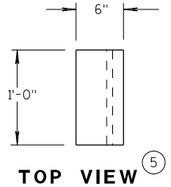


TOP VIEW (5)

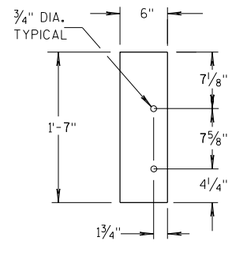


FRONT VIEW

BLOCKOUT POSTS 1-5



TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

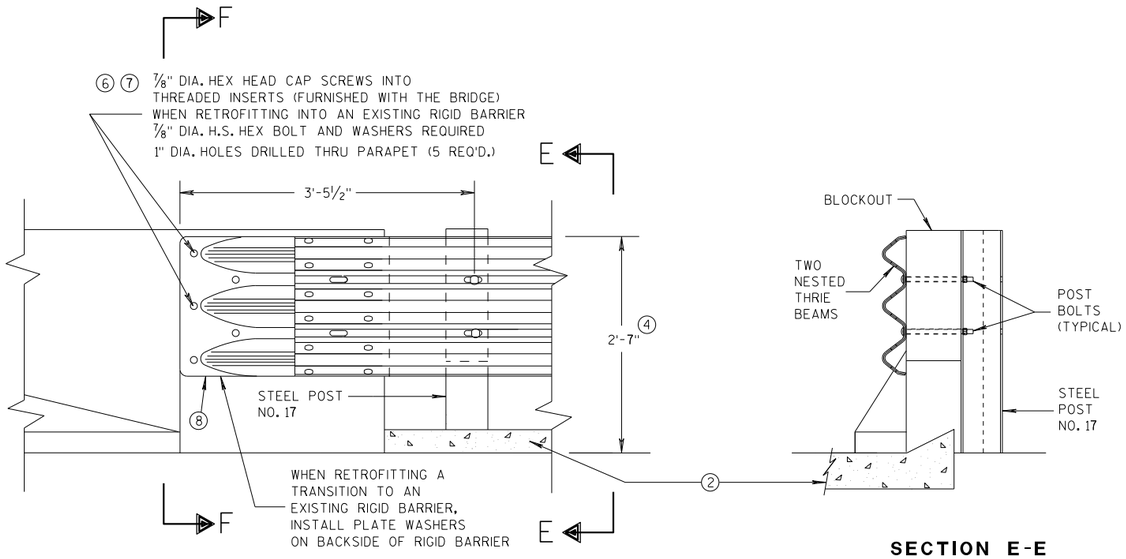
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 260

6
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

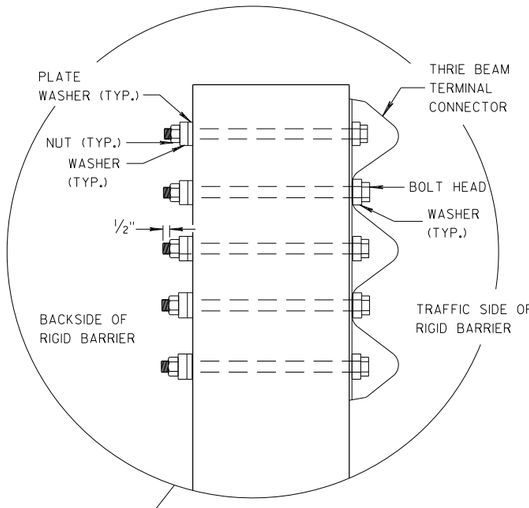
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

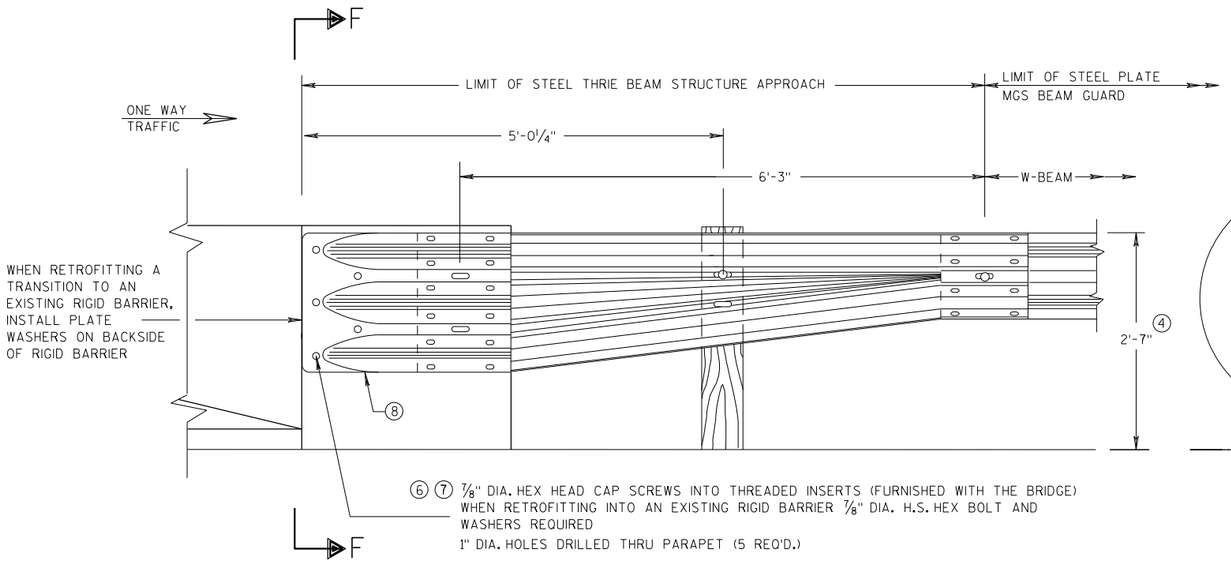
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

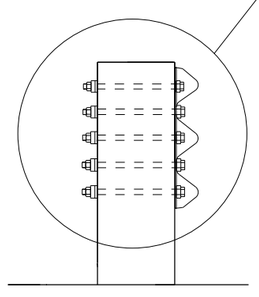
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

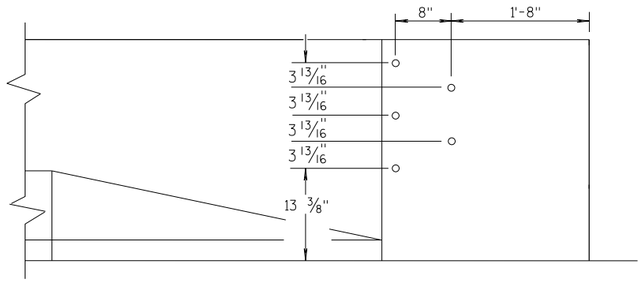




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVI[illegible]NT
FHWA

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S.D.D. 14 B 45-5d

6

S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

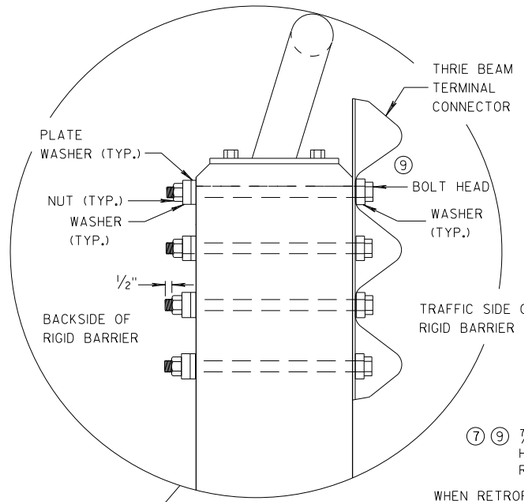
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

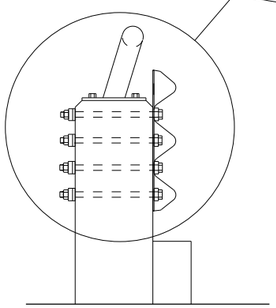
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

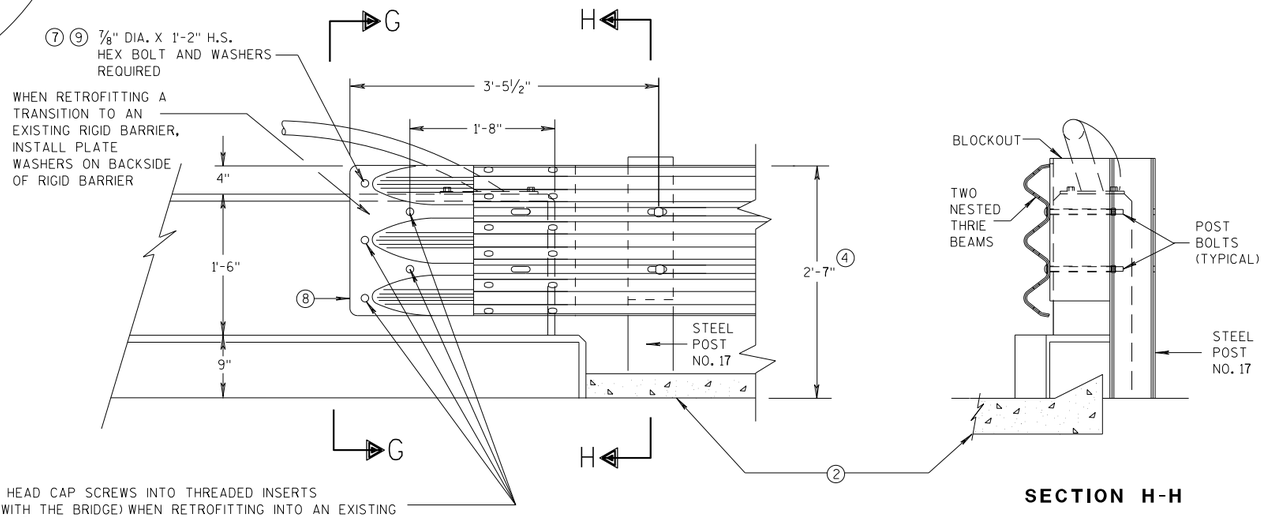
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





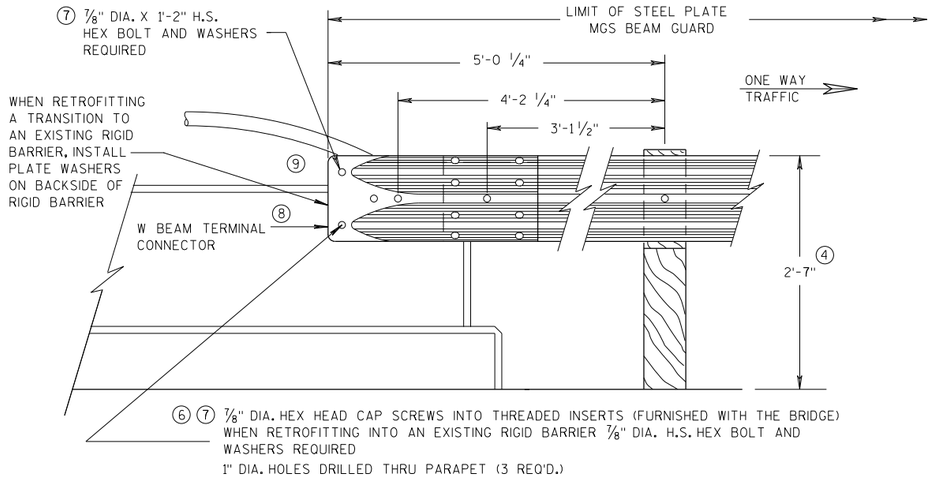
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

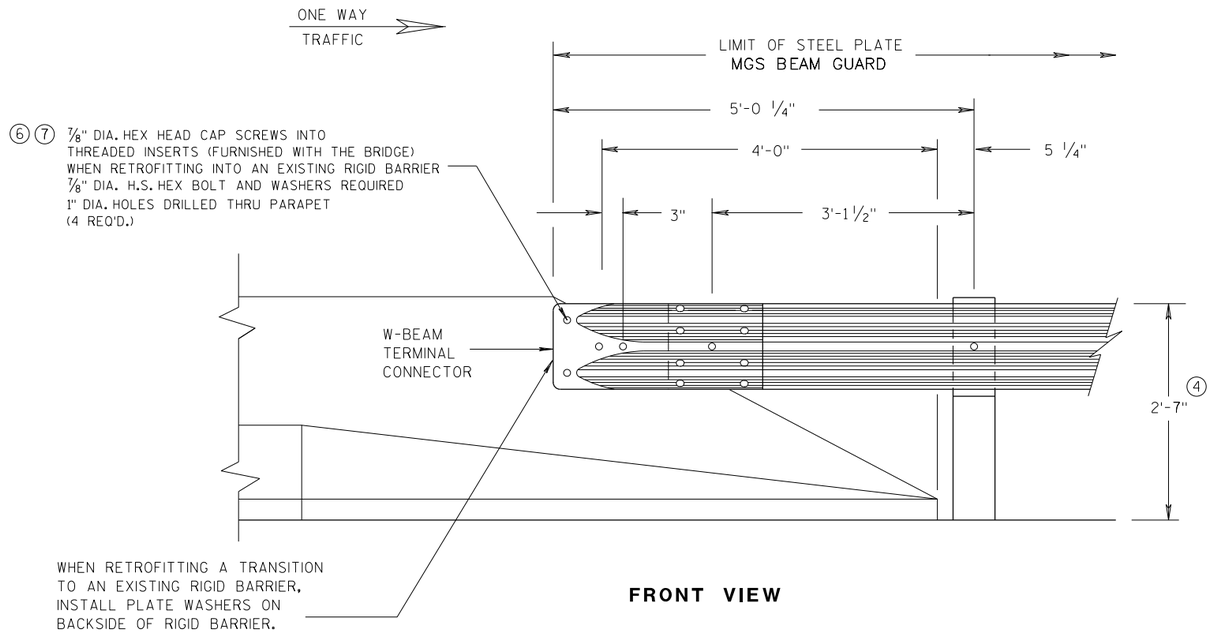
APPROVED
07/2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVIS NT
FHWA

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S.D.D. 14 B 45-5e

6

S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

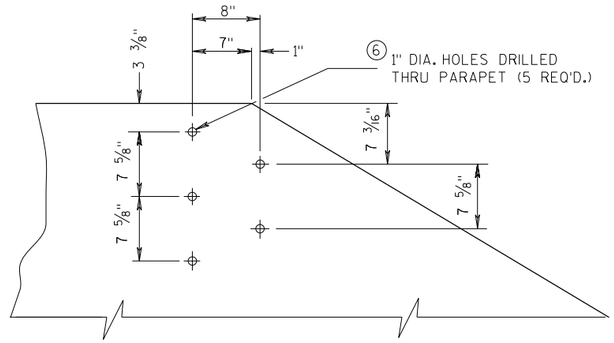
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

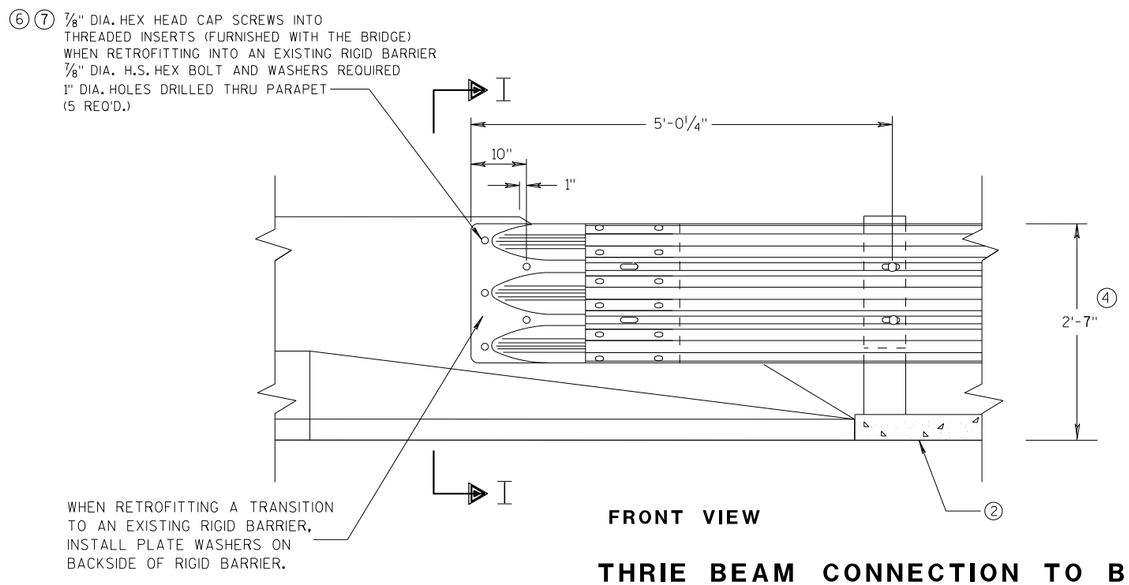
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

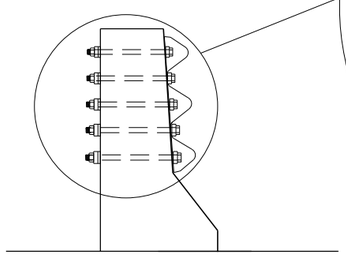
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



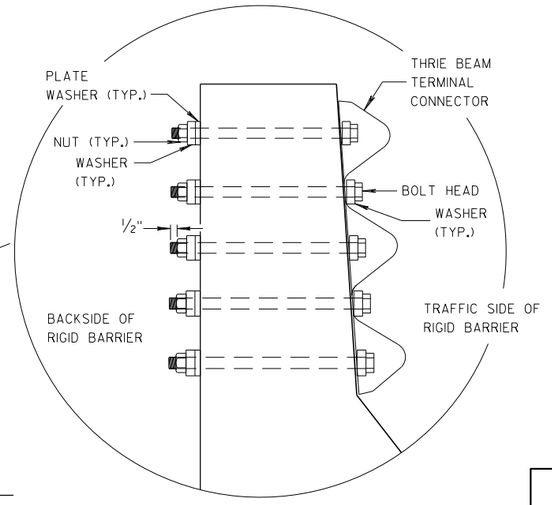
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

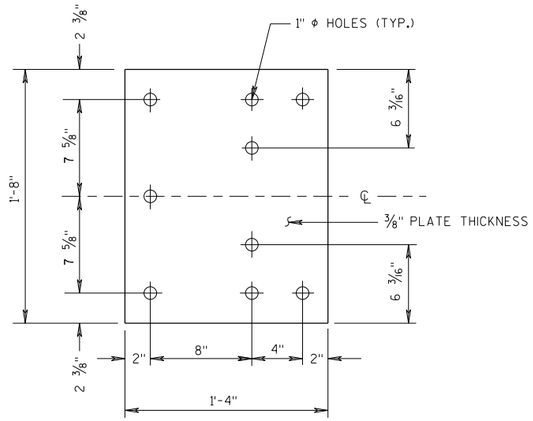
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07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS [illegible] UNIT SUPERVI[illegible]ENT
FHWA

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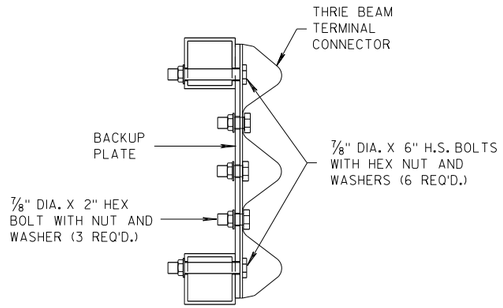
S.D.D. 14 B 45-5f

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S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL

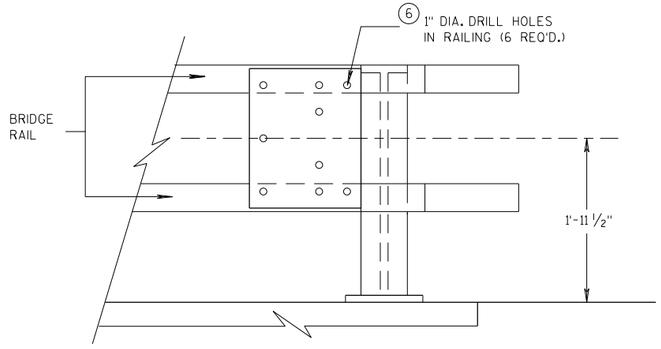


SECTION J-J

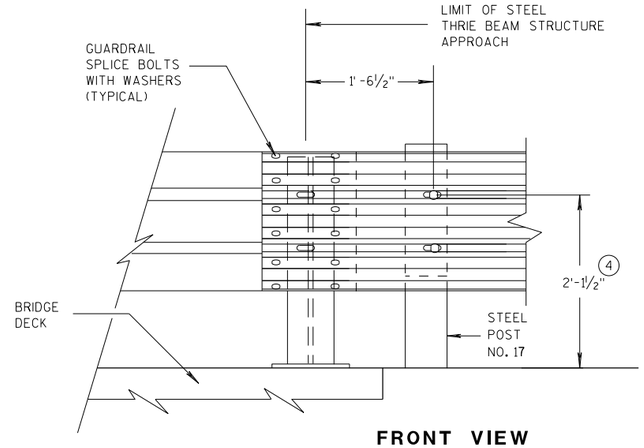
GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(6) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

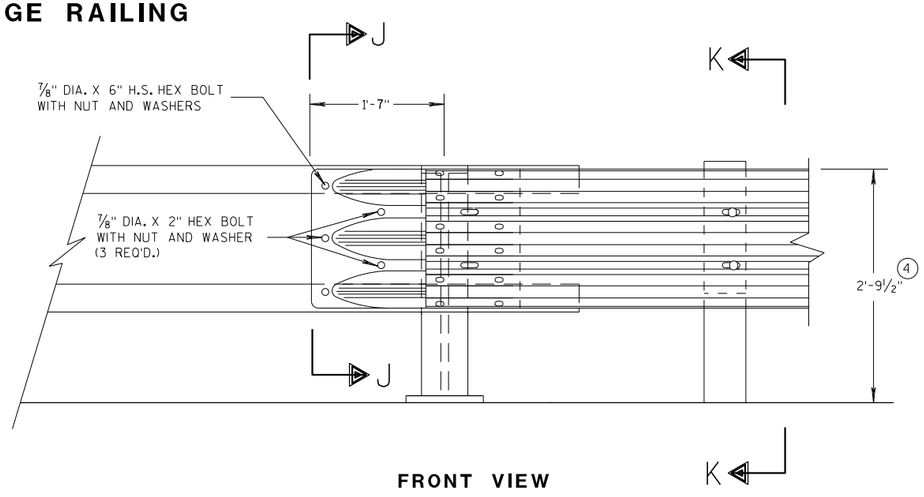


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

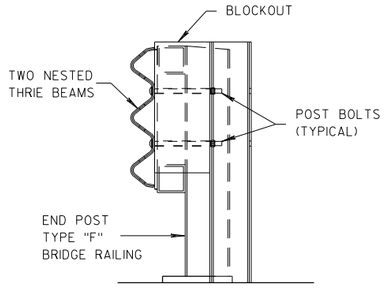


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
264
FHWA

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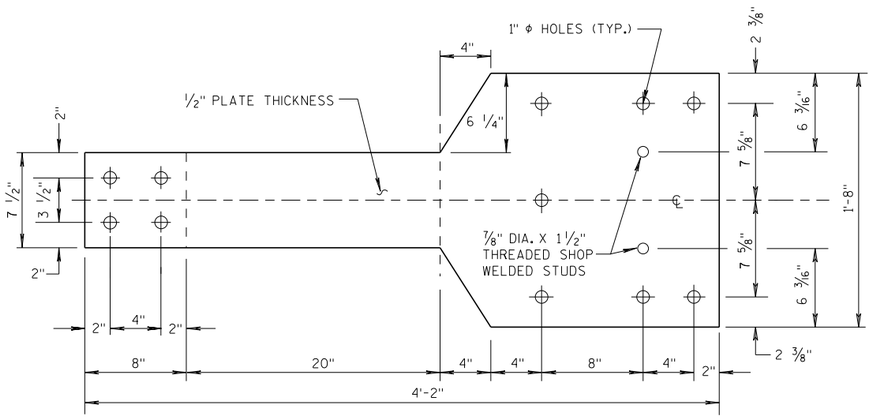
S.D.D. 14 B 45-5g

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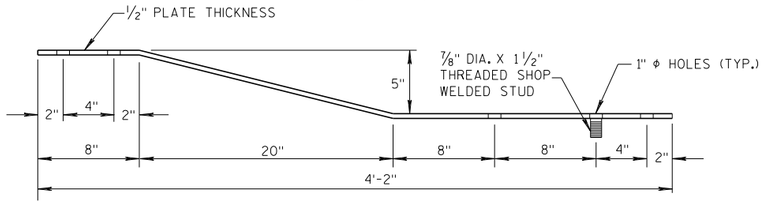
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

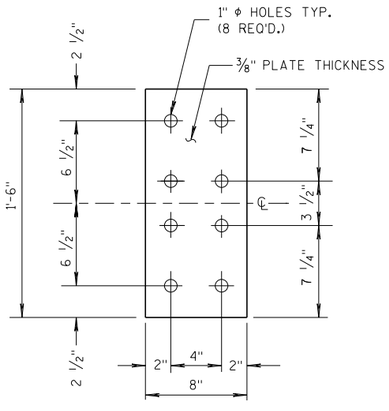


FRONT VIEW



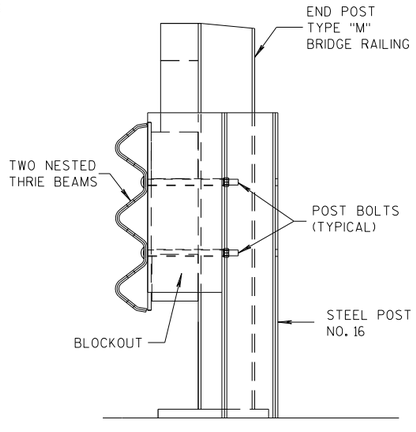
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

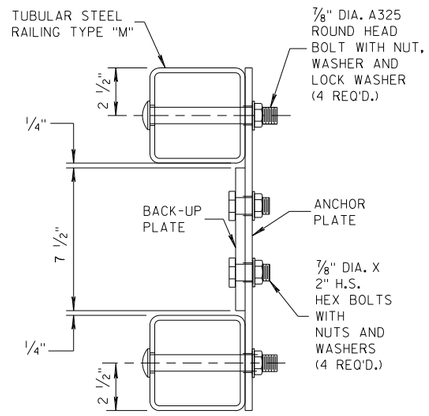


FRONT VIEW

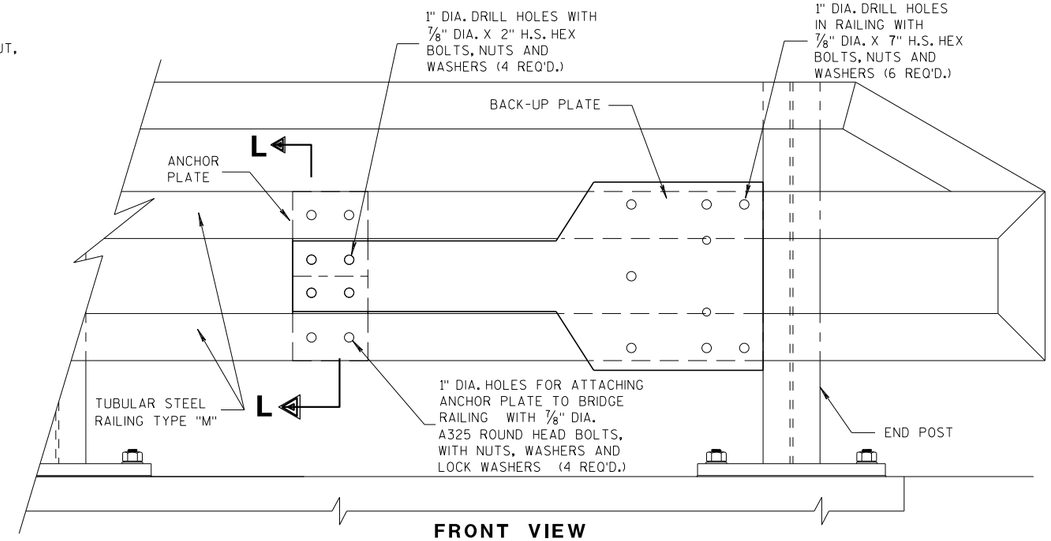
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

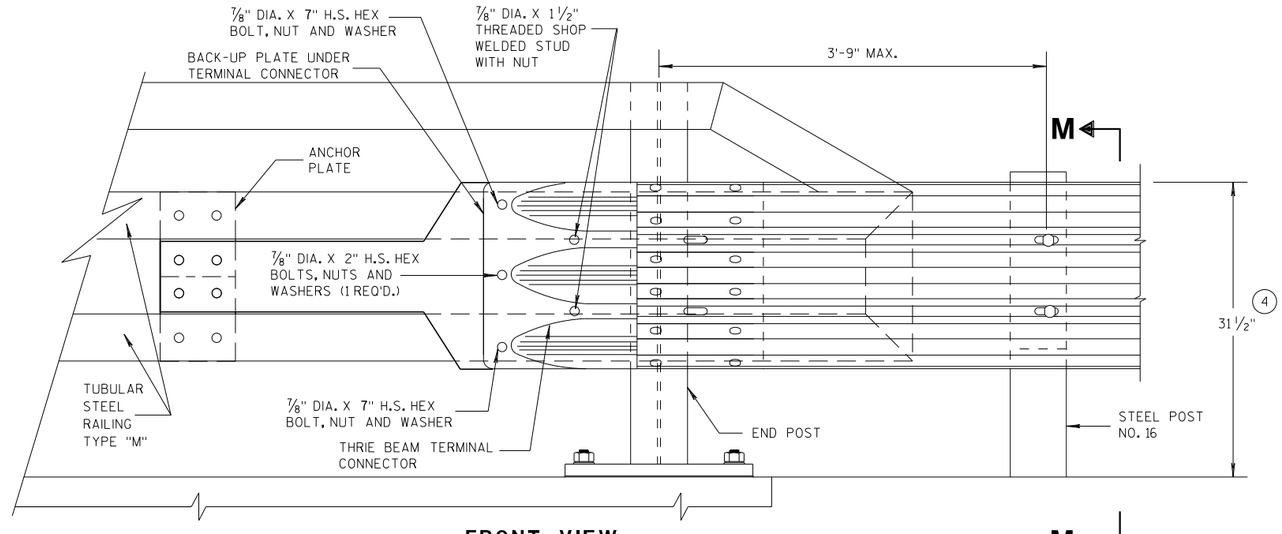


SECTION L-L

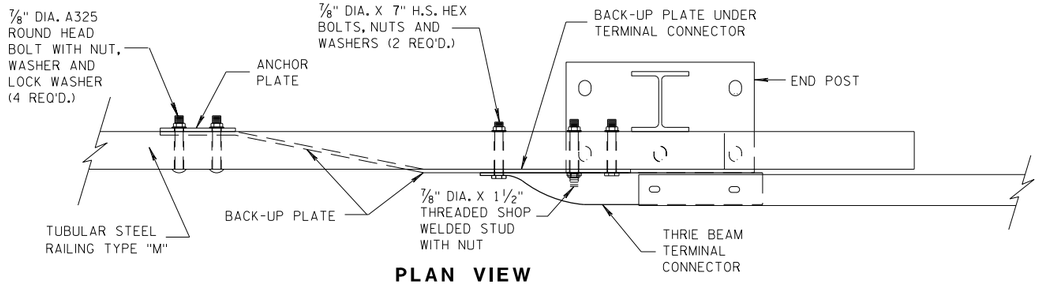


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

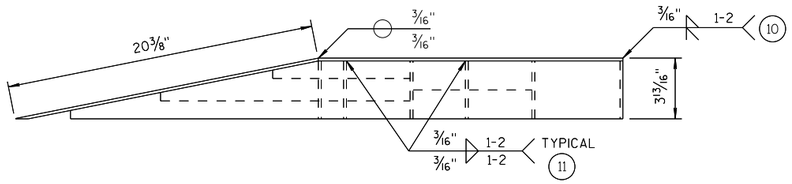
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/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

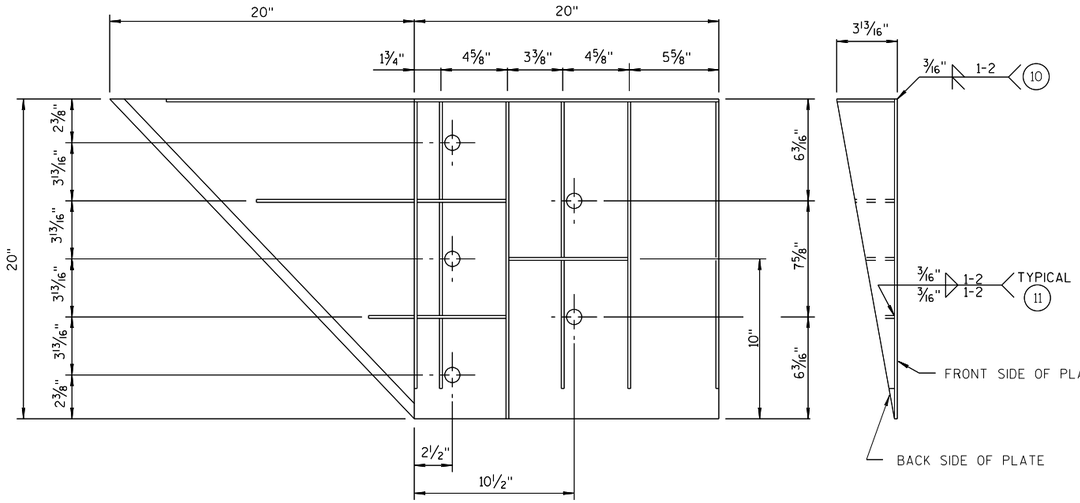
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S.D.D. 14 B 45-5h

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S.D.D. 14 B 45-5h





WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

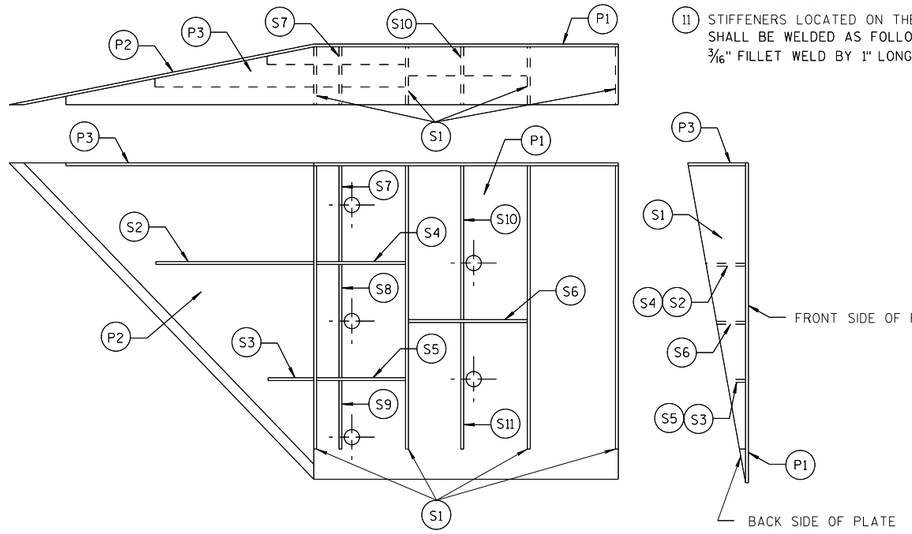


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

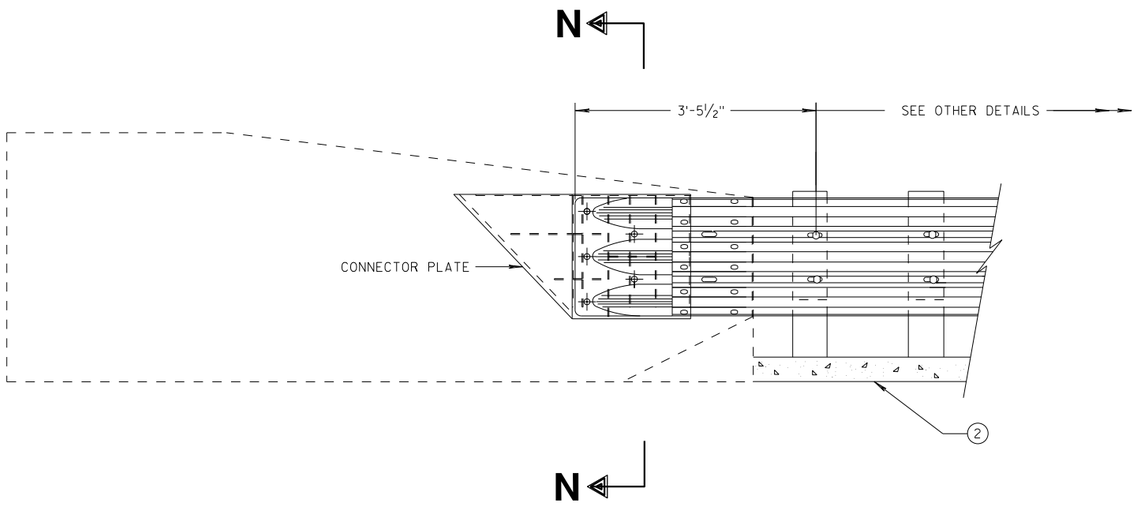
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

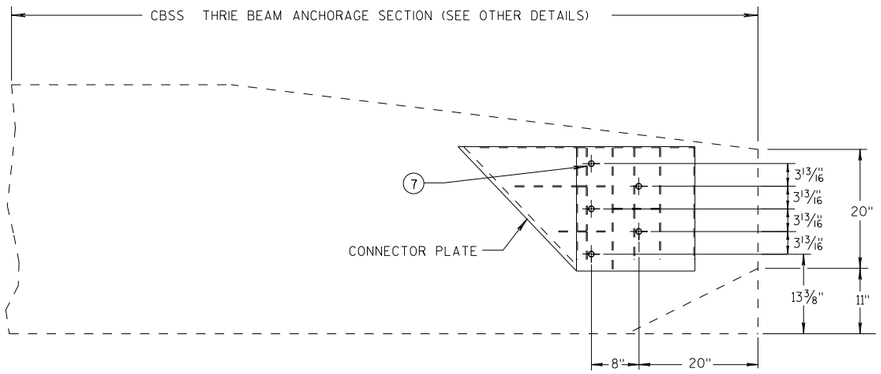
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7/2018
DATE
FHWA

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ROADWAY STANDARDS I
UNIT SUPERVI

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S.D.D. 14 B 45-5i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



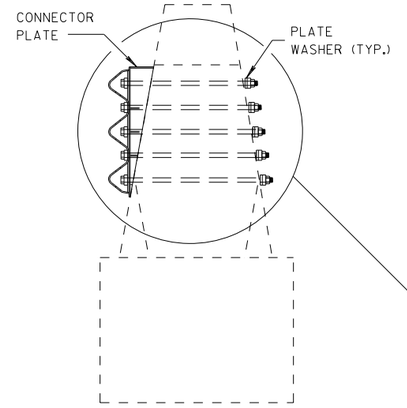
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

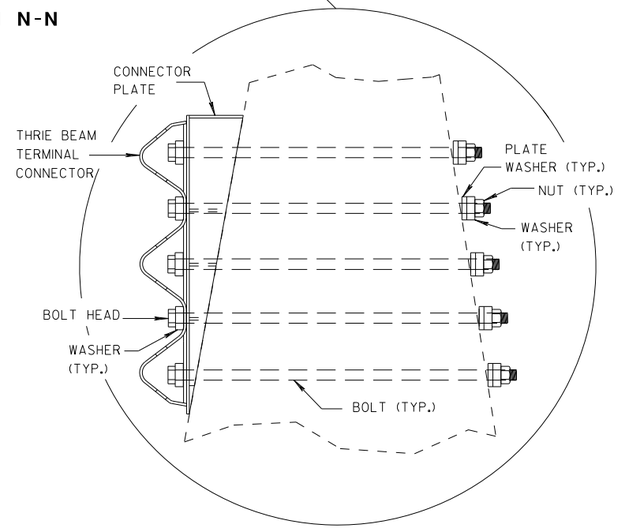
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

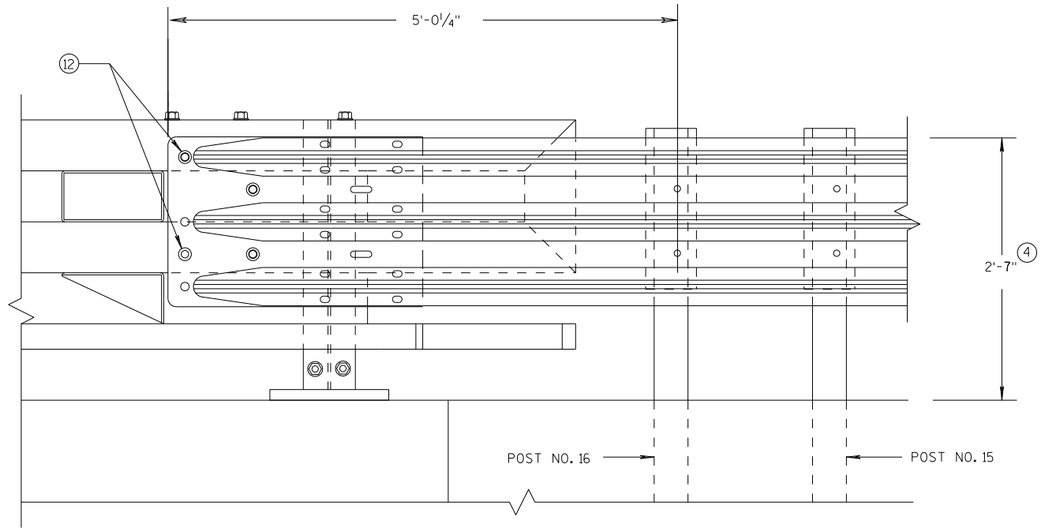
APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DI UNIT SUPERVIS
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FHWA

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S.D.D. 14 B 45-5j

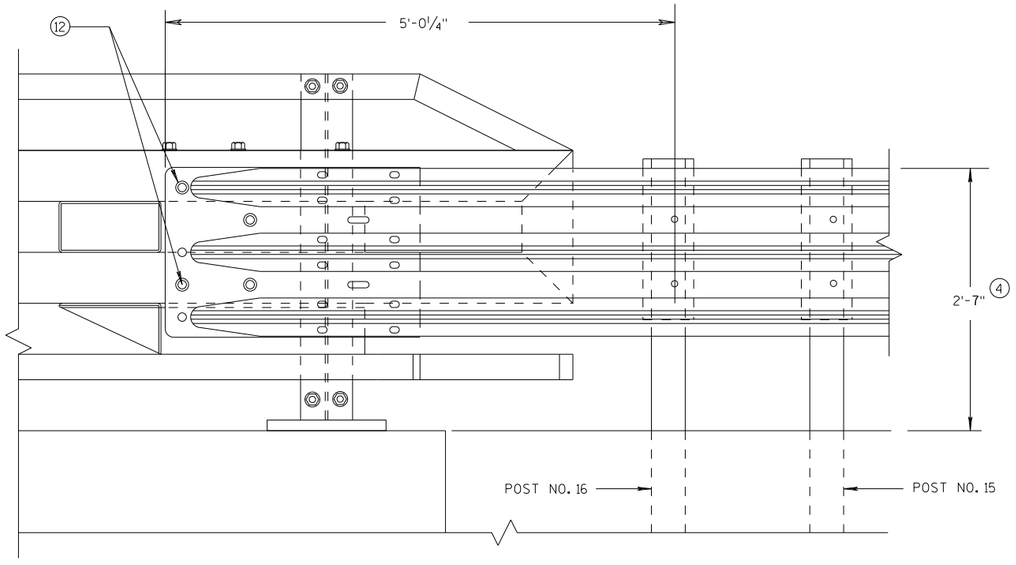
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S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
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FHWA

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ROADWAY STANDARDS D
UNIT SUPERVIS

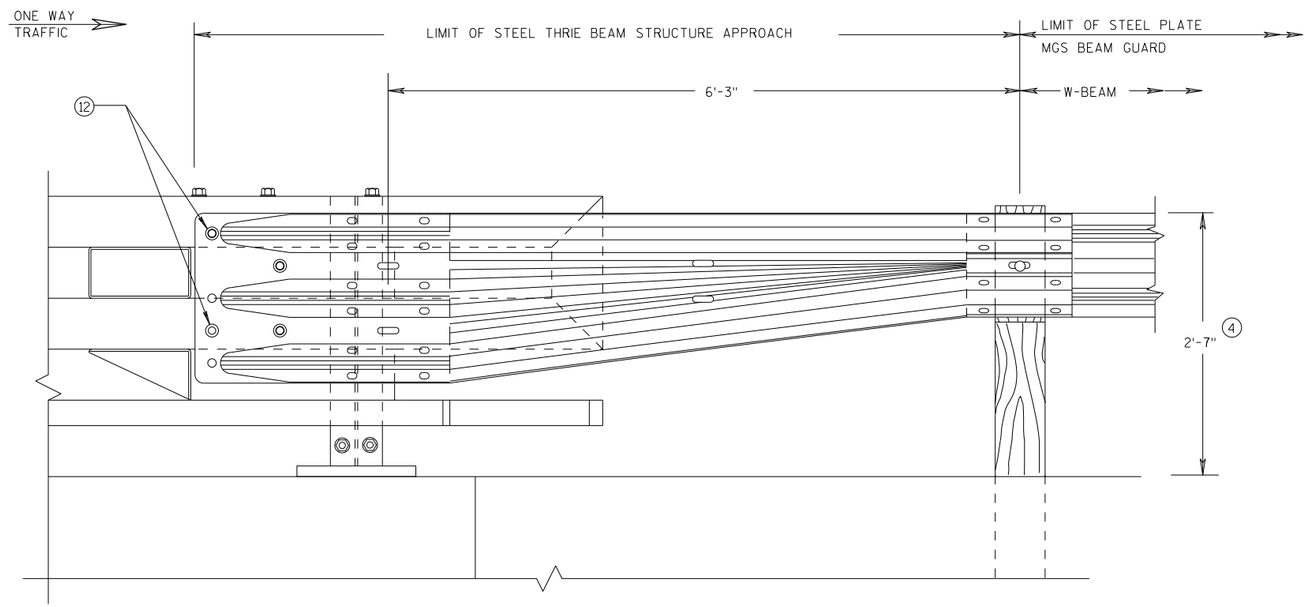
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S.D.D. 14 B 45-5k

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S.D.D. 14 B 45-5k



FRONT VIEW

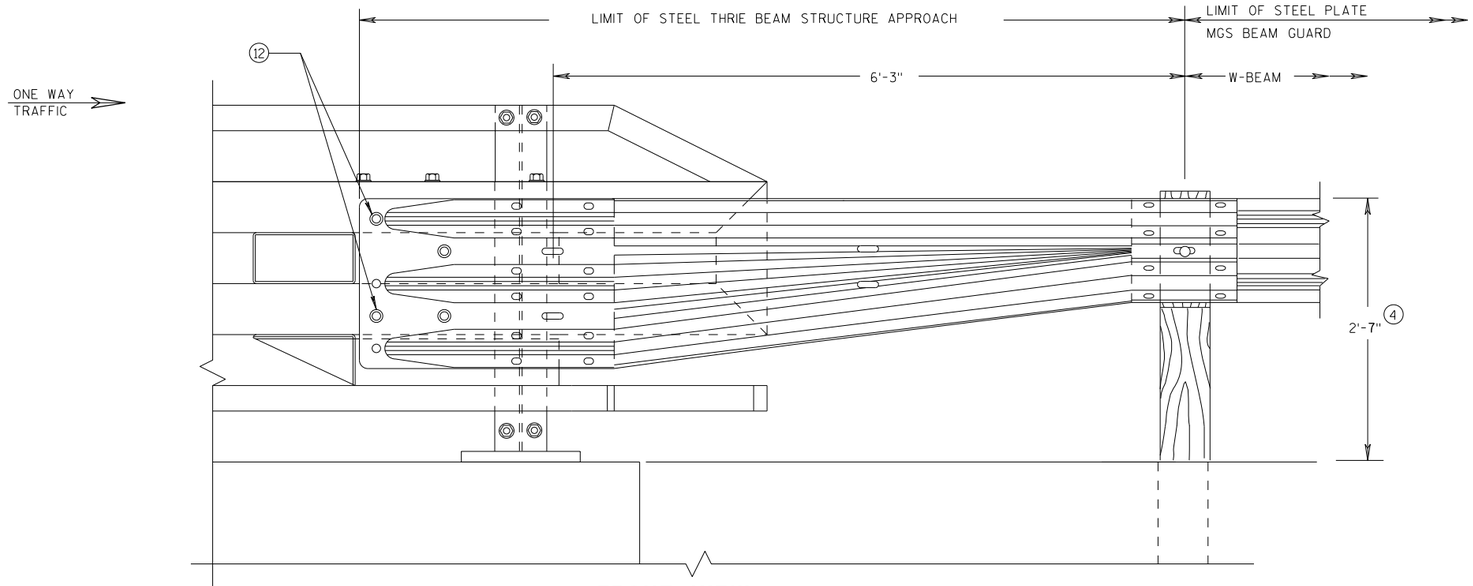
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
FHWA

/S/ Rodney Taylor
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UNIT SUPERVIS

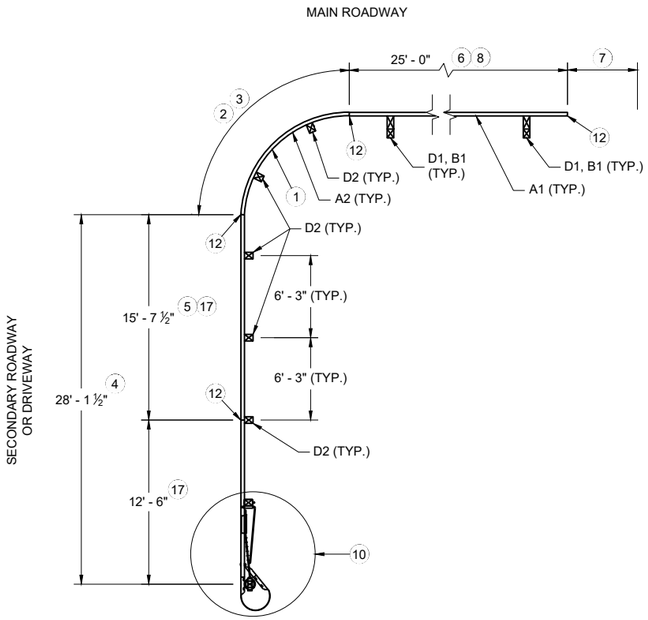
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S.D.D. 14 B 45-5L

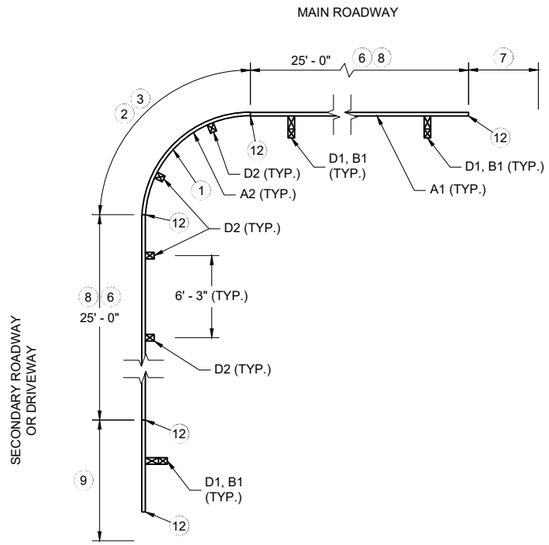
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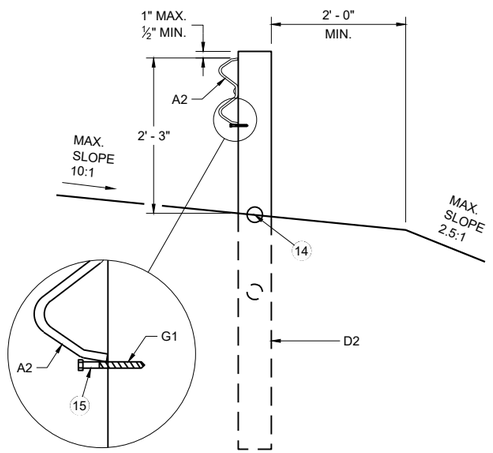
PLAN VIEW

SHORT RADIUS BEAM GUARD WITH SHORT RADIUS TERMINAL ON SECONDARY ROAD OR DRIVEWAY

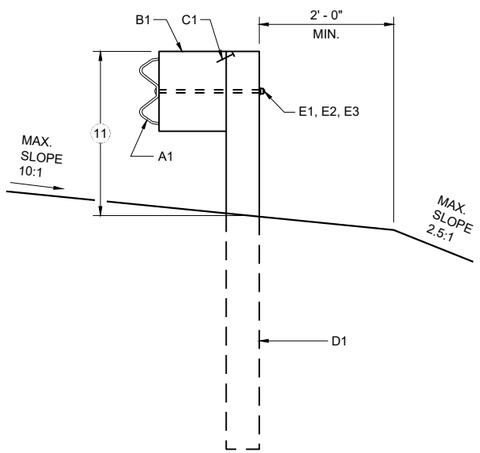


PLAN VIEW

SHORT RADIUS BEAM GUARD WITH EAT, ADDITIONAL BEAM GUARD OR TRANSITION TO RIGID BARRIER ON SECONDARY ROAD OR DRIVEWAY



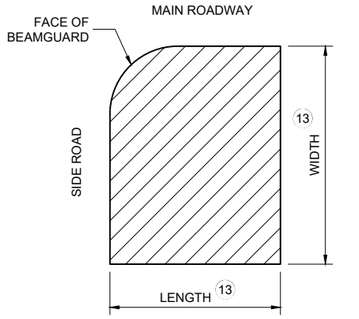
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



BEAM GUARD POSTS IN HEIGHT TRANSITION

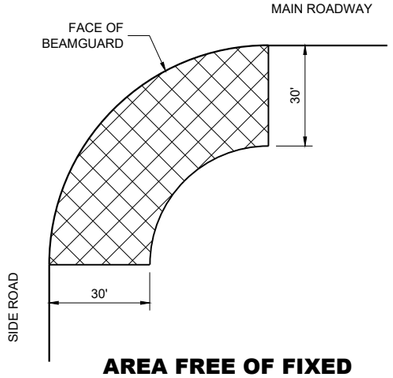
TABLE FOR RADIUS OF 32' AND LESS

RADIUS (FT)	LENGTH (FT)	WIDTH (FT)
8	25	15
16	30	15
24	40	20
32	50	30

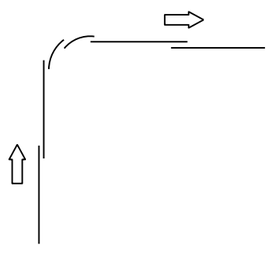


16

AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS



AREA FREE OF FIXED OBJECTS FOR RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

SEE SDD 14B42 FOR MORE INFORMATION ON BEAM GUARD INSTALLATION, PARTS, MATERIALS, AND INSTALLATION INFORMATION.

GALVANIZE PARTS AFTER FABRICATION.

WELDING TO FOLLOW CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI / AWS D1.1.

UNLESS NOTED OTHERWISE, ALL PLATES ARE FLAT AND FREE OF WARP.

UNLESS NOTED OTHERWISE, ALL EDGES ARE SMOOTH, STRAIGHT AND VERTICAL.

ALL CUTS AND HOLES, EXCEPT IN BEAM GUARD RAIL ARE TO BE MACHINED OR MACHINE FLAME CUT.

UNLESS NOTED OTHERWISE, CUT OR PROVIDE BOLTS THAT ARE ¼" TO ½" BEYOND THE NUT.

DRAWINGS ARE NOT TO SCALE.

1. RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS GUARD MEASURED ALONG TRAFFIC SIDE OF RAIL. RADIUS BETWEEN 8 FEET TO 150 FEET. SEE PLAN FOR REQUIRED RADIUS. BEAM GUARD RAIL IN RADIUS IS SHOP BENT. ODD RAIL LENGTH OR FIELD CUTS MAY BE REQUIRED.
2. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE USED IN THE RADIUS. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE SPACED 6' - 3". SEE PLAN FOR NUMBER OF CONTROLLED RELEASE (CRT) POSTS.
3. WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAIL IS RESTED ON TOP OF LAG SCREW.
4. MINIMUM LENGTH OF BEAM GUARD ALONG SIDE ROAD OR DRIVEWAY TO INSTALL SHORT RADIUS TERMINAL. BEAM GUARD IS PAID WITH BEAM GUARD ITEM.
5. ODD LENGTH OF BEAM GUARD REQUIRED TO INSTALL SHORT RADIUS TERMINAL.
6. MINIMUM AMOUNT OF BEAM GUARD TO BE INSTALLED PRIOR TO TRANSITION TO RIGID BARRIER. ADDITIONAL BEAM GUARD, OR EAT. BEAM GUARD PAID FOR WITH BEAM GUARD ITEM. SEE PLANS FOR MORE DETAIL.
7. BEAM GUARD, EAT, OR TRANSITION TO RIGID BARRIER. SEE PLAN.
8. TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD OR EAT.
9. ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD SHOWN. SEE PLAN FOR DETAILS.
10. SHORT RADIUS TERMINAL (SEE OTHER DETAILS).
11. HEIGHT VARIES. SEE NOTE 8 AND 8 .
12. BEAM GUARD RAIL SPLICE LOCATION. SPLICE LOCATION REQUIRES PART F1 AND F2. SEE SDD 14B42 FOR DETAILS.
13. SEE TABLE FOR VALUES.
14. MAXIMUM HEIGHT FOR CENTER OF HOLE IS ¾" ABOVE FINISHED GROUND ±1".
15. DRILL POST $^{15}/_{64}$" DIA. PILOT HOLE. DO NOT HAMMER LAG SCREW INTO POST.
16. SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.
17. TOP OF RAIL HEIGHT IS 27" WHEN USING A SHORT RADIUS TERMINAL (CRT).

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

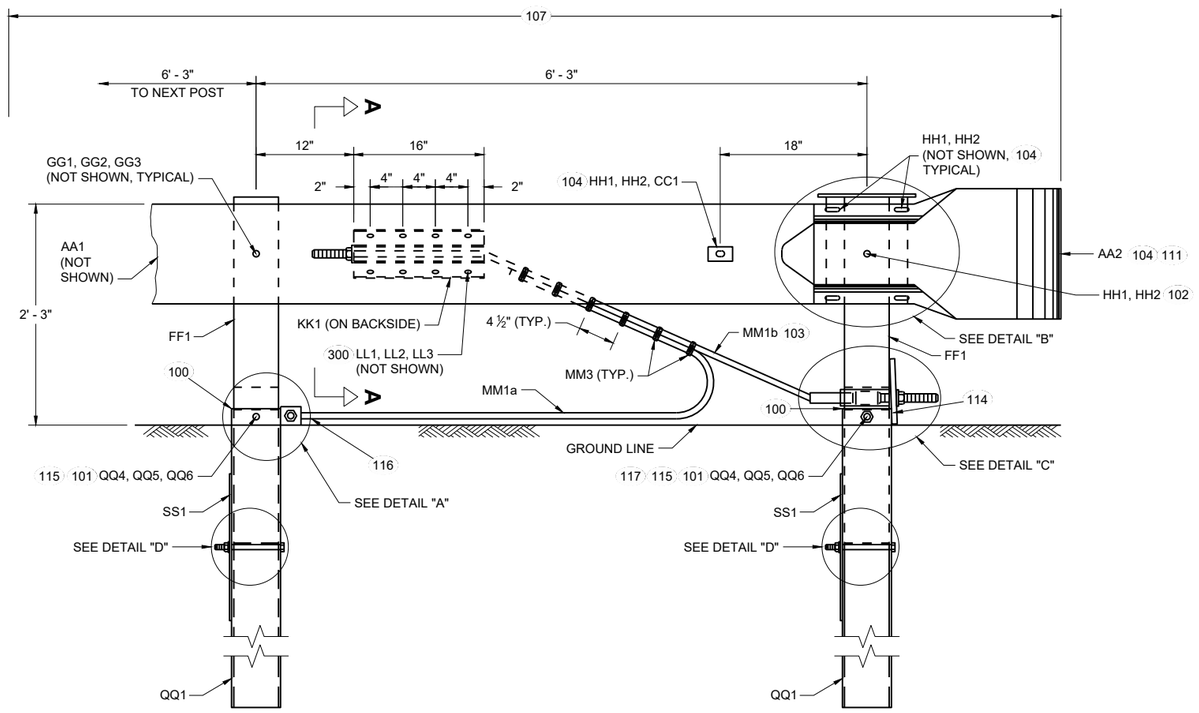
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B53-03a

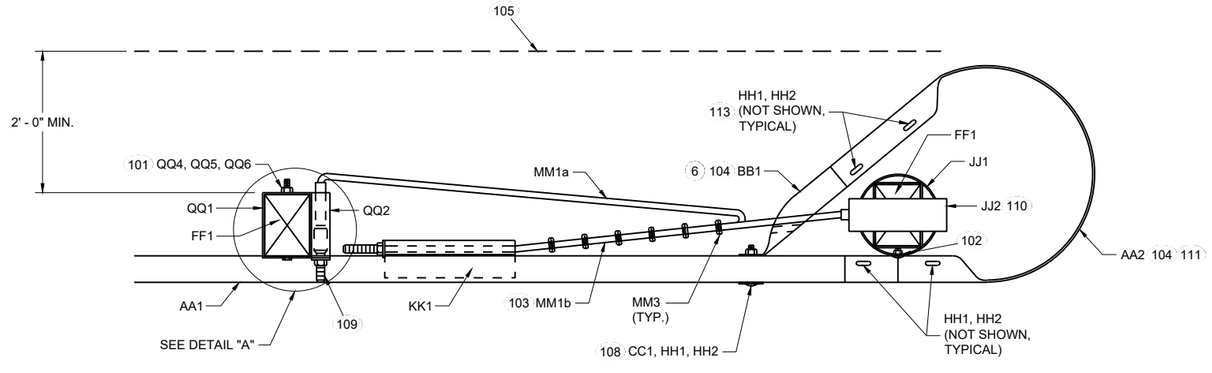
6

SDD 14B53-03a



PROFILE VIEW

SHORT RADIUS TERMINAL



TOP VIEW

SHORT RADIUS TERMINAL

GENERAL NOTES

100 TOP OF FOUNDATION TUBE 2 INCHES MAXIMUM ABOVE FINISHED GROUND.

101 WASHERS REQUIRED BETWEEN BOLT HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

102 SPLICE BOLT AND NUT CONNECTS BEAM GUARD RAIL, W-BEAM SECTION BUFFER, AND STEEL PIPE ASSEMBLY. NO WASHER REQUIRED. SEE DETAIL "B".

103 CABLE IS TAUT.

104 ADJUST AA2 AND BB1 TO FIT.

106 BREAK POINT OF SHOULDER.

106 TACK WELD CABLE CONNECTOR TUBE PLATE TO CABLE CONNECTION TUBE. SEE DETAIL "A" PROFILE VIEW.

107 PAY LIMIT FOR BEAM GUARD.

108 SQUARE WASHER BETWEEN HEAD OF BOLT AND TRAFFIC FACE OF BEAM GUARD. ROUND WASHER REQUIRED BETWEEN NUT AND BB1.

109 CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS ½" TOLERANCE). DEBURR AFTER CUTTING.

110 SEE STEEL PIPE ASSEMBLY DETAILS.

111 ATTACH UU2 WITH UU3. SHOP APPLY UU1 TO UU2.

112 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA1 TO AA2.

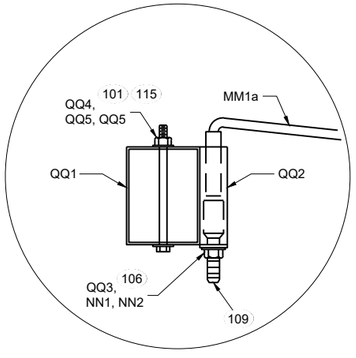
113 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.

114 NO MATERIAL IS TO BE PLACED AGAINST THE VERTICAL FACES OF BEARING PLATE.

115 PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLTS FOR POST AND SOIL TUBE.

116 PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLT. PLACE CABLE ON TOP OF MATERIAL.

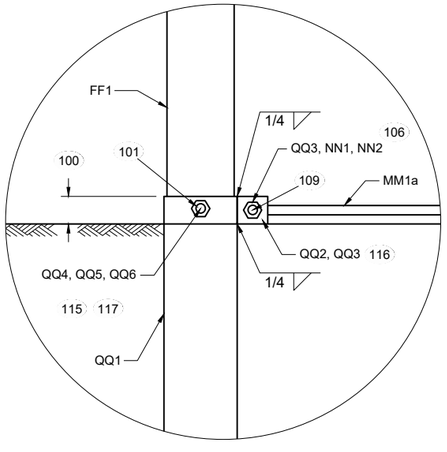
117 ONE WASHER BETWEEN BOLD HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.



TOP VIEW

DETAIL "A"

(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



PROFILE VIEW

DETAIL "A"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

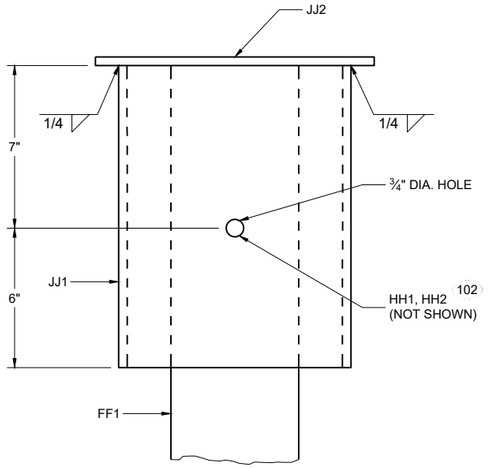
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B53-03b

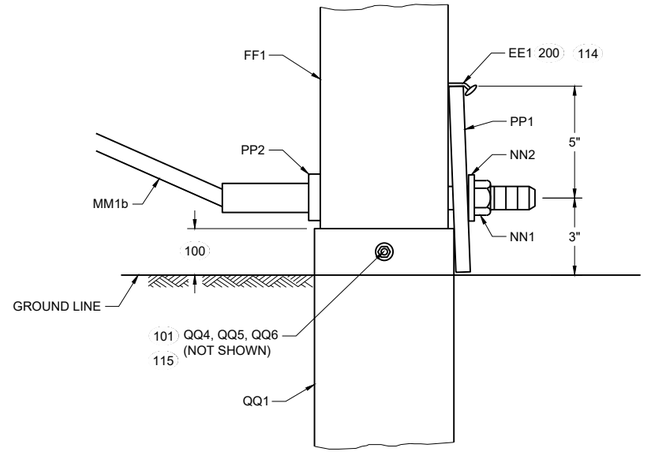
GENERAL NOTES

200 TWO (2) NAILS SPACED 4 INCHES CENTER TO CENTER.



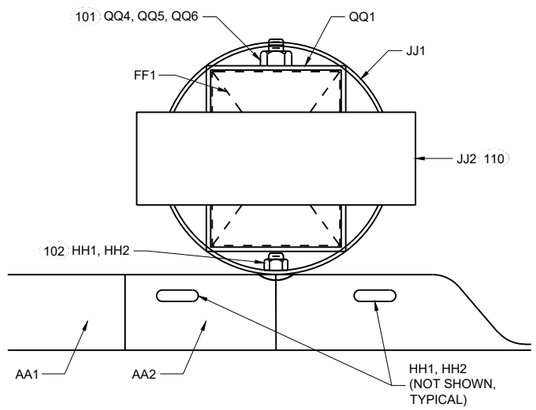
PROFILE VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY
(BEAM GUARD AND W BEAM END SECTION NOT SHOWN)



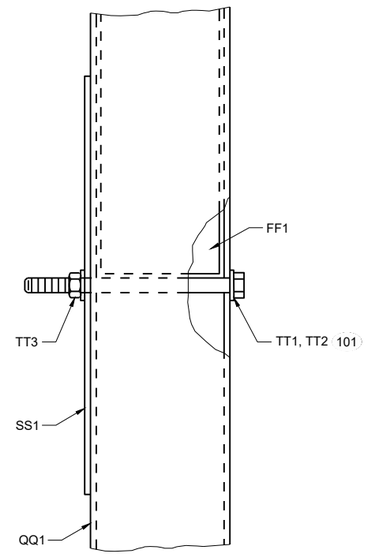
PROFILE VIEW

DETAIL "C"



PLAN VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY



PROFILE VIEW

DETAIL "D"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

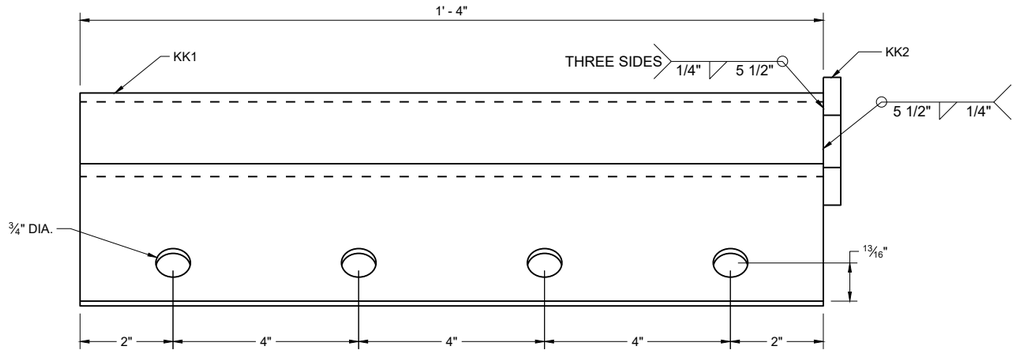
SDD 14B53-03c

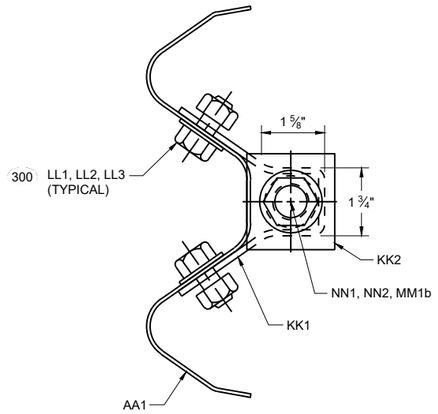
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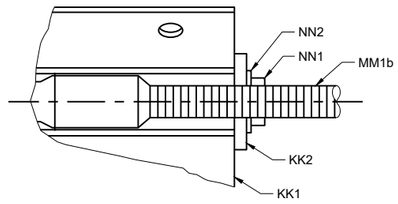
SDD 14B53-03c

GENERAL NOTES

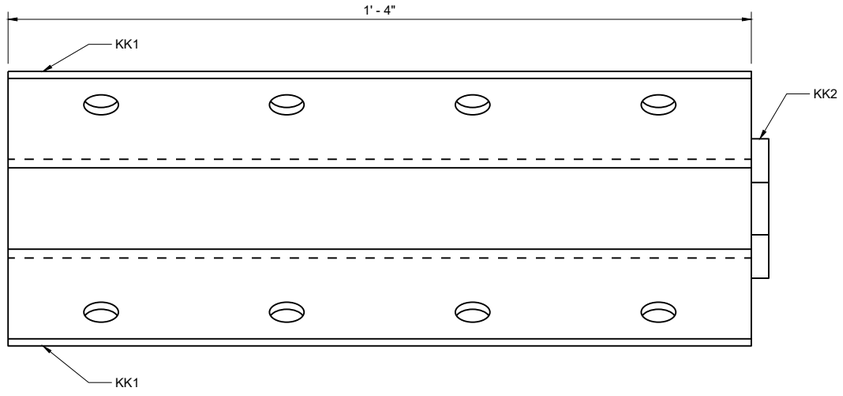
300 WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT (8) LL1 AND LL3 REQUIRED. SIXTEEN (16) LL2 REQUIRED.

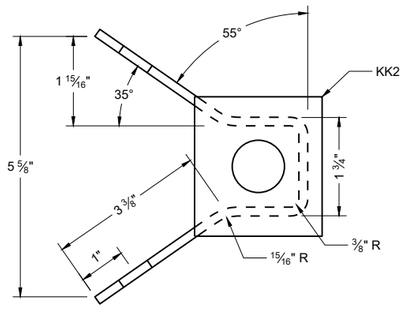




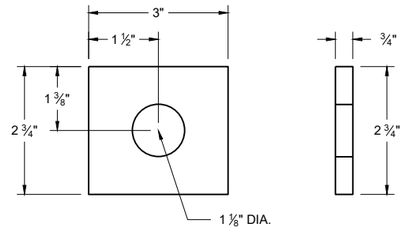


SECTION A - A





ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)

6

6

SDD 14B53-03d

SDD 14B53-03d

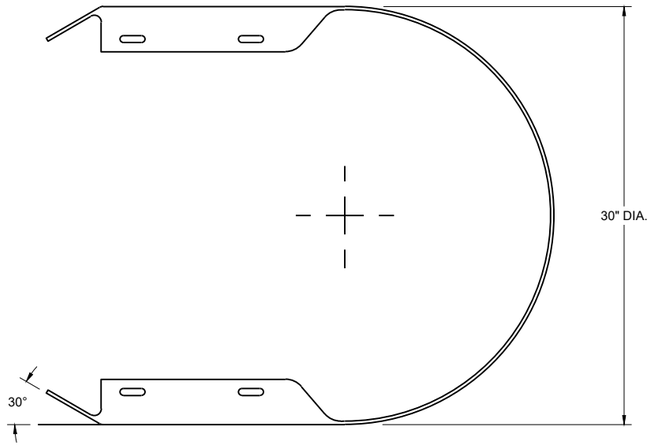
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

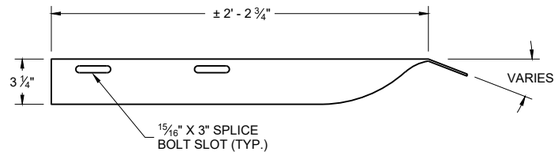
GENERAL NOTES

400 CROSS SECTION OF PART IS TO FIT OVER AA1 .

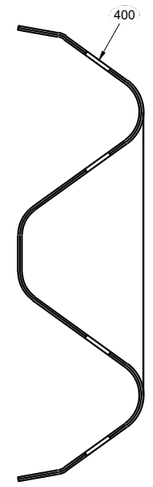
401 CROSS SECTION OF PART IS TO FIT OVER OR UNDER AA1 .



TOP VIEW



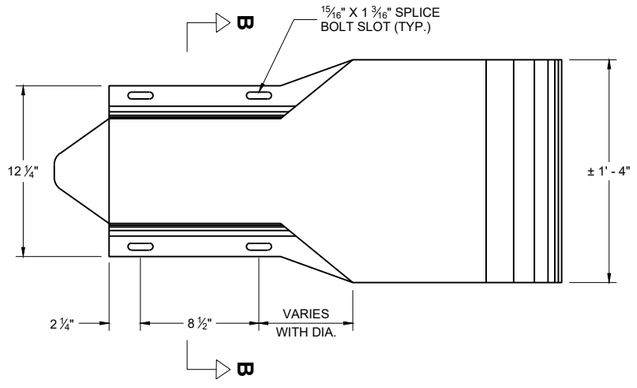
TOP VIEW



SECTION B -B

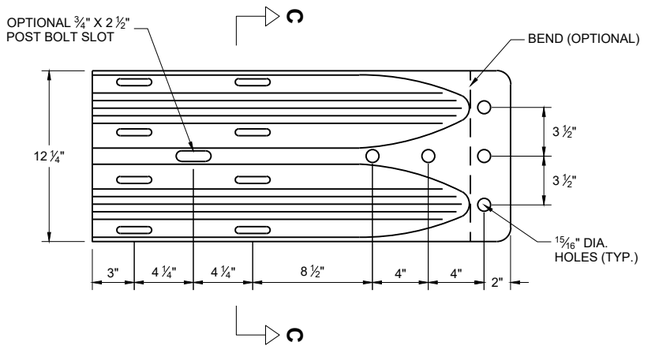


SECTION C -C



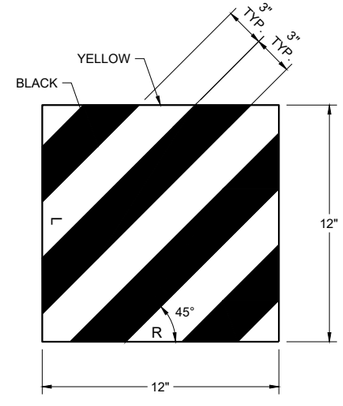
PROFILE VIEW

W BEAM
END SECTION BUFFER (AA2)



PROFILE VIEW

W BEAM
TERMINAL CONNECTOR (BB1)



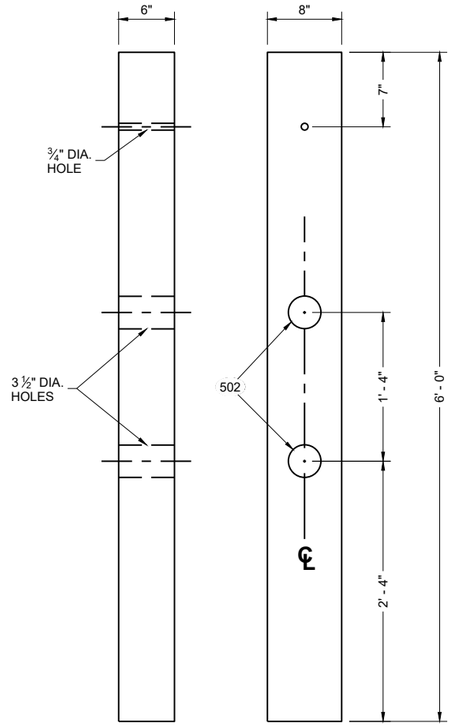
REFLECTIVE SHEETING (UU1, UU2)

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

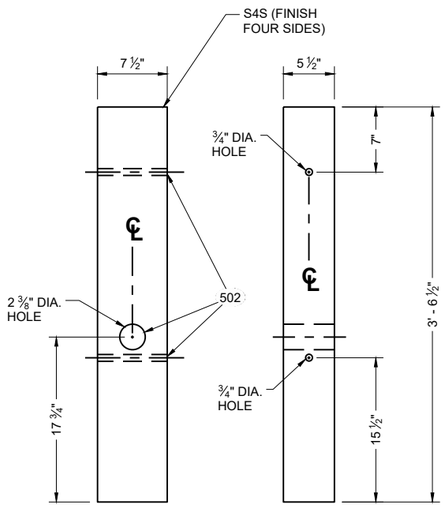
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SDD 14B53-03e



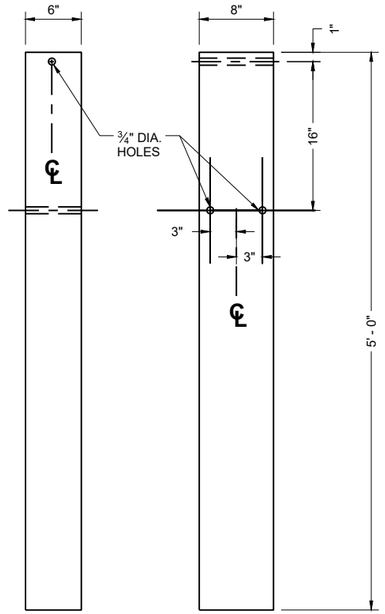
FRONT VIEW SIDE VIEW

CONTROLLED RELEASE POST (CRT) (DD2)



FRONT VIEW SIDE VIEW

WOOD BREAKAWAY POST (FF1)



FRONT VIEW SIDE VIEW

FOUNDATION TUBE (QQ1) 500

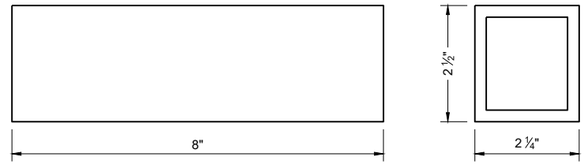
GENERAL NOTES

500 SEE DETAIL "D" FOR LOCATION AND ATTACHMENT OF SS1.

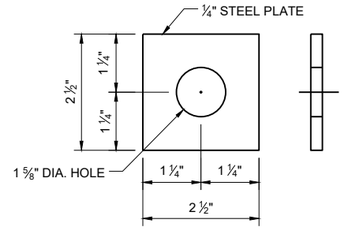
501 FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

502 LOCATE HOLES ON THE CENTERLINE OF THE SIDE OF THE POST.

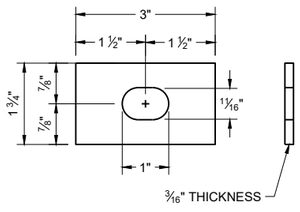
503 MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE 109 .



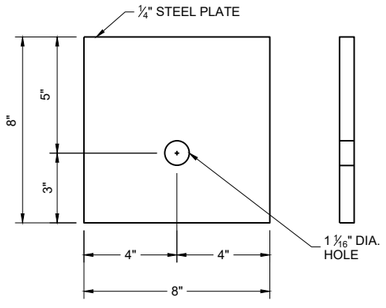
FOUNDATION TUBE - ANCHOR CABLE TUBE (QQ2)



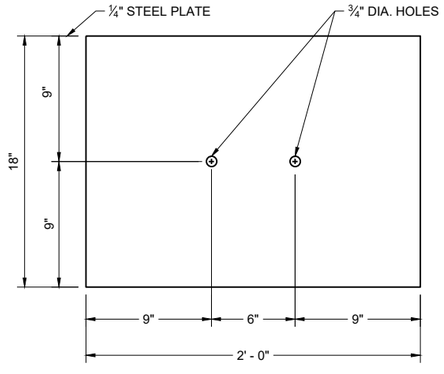
ANCHOR CABLE TUBE END PLATE (QQ3)



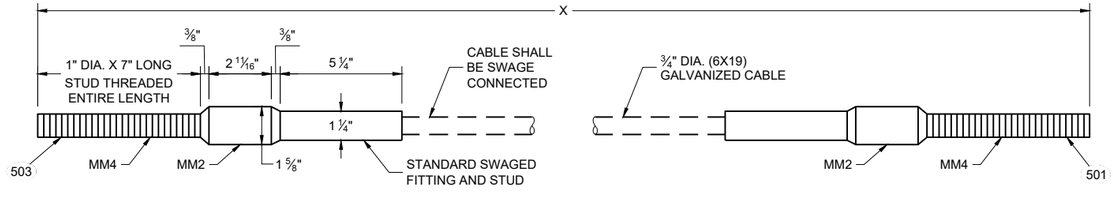
RECTANGULAR PLATE WASHER (CC1)



BEARING PLATE (PP1)



SOIL PLATE (SS1)



CABLE ASSEMBLY (MM1a, MM1b)

"X" LENGTH

MM1b	9' - 0"
MM1b	6' - 8"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
A2	BEAM GUARD RAIL - SHOP BENT	INDICATE ON BACK OF RAIL THE RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.	
		AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42
C1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)	
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42
D2	POST-CRT-WOOD	WISDOT SPEC. 614	
E1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
E2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
E3	POST BOLT - NUT	AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
F1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	1/2" DIA. 6" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
H2	DELINEATION - SHEETING	YELLOW OR WHITE	
		WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
AA1	BEAM GUARD RAIL - PUNCHED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
AA2	BEAM GUARD RAIL - END SECTION BUFFER	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL CONNECTOR MODIFIED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE WASHER	AASHTO M180	
		GALV. AASHTO M111 / ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
		WISDOT SPEC. 614	
GG1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	3/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-03g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	3/8" DIA. SEE 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
HH1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 3/8" X 4" X 1' - 0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
LL1	ANCHOR BRACKET - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM2	ANCHOR CABLE - SWAGE FITTING	ASTM A576 GRADE 1035	
		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	3/4"
		ASTM A153 HOT DIP CLASS D	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
NN1	ANCHOR CABLE - NUT	ASTM A563 GRADE A	1" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-03h

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
PP1	BEARING PLATE AT POST	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
PP2	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	2" DIA. x 6" LONG
QQ1	FOUNDATION TUBE	ASTM A500 GRADE B	8" X 6" X 3/16"
		GALV. AASHTO M111 / ASTM A123	
QQ2	SHORT RADIUS - FOUNDATION TUBE - ANCHOR CABLE - TUBE	ASTM A500 GRADE B	DIMENSIONS 2 1/2" X 2 1/4" X 1/4" X 8"
		GALV. AASHTO M111 / ASTM A123	
QQ3	SHORT RADIUS - SOIL TUBE - ANCHOR CABLE - TUBE - END PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 2 1/2" X 2 1/2" X 1/4"
		GALV. AASHTO M111 / ASTM A123	
QQ4	GROUND STRUT AND YOKE - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
		UNC	
QQ5	GROUND PLATE AND YOKE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
QQ6	GROUND STRUT AND YOKE - NUT	HEAVY HEX	5/8 DIA.
		UNC	
		ASTM A563 GRADE A	
		OVER TAPPED NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	

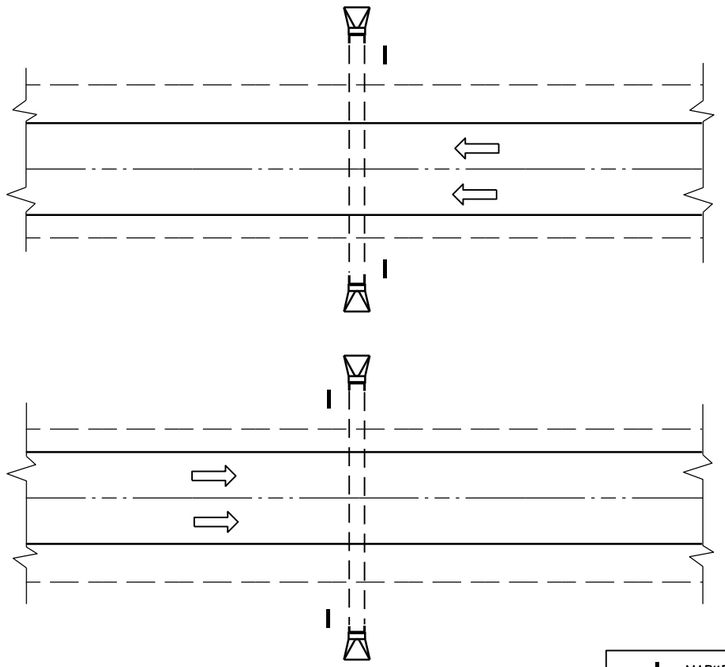
PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
SS1	SOIL PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / A123	
TT1	SOIL PLATE - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8 DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
TT2	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
TT3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
UU1	OBJECT MARKER - SHEETING	MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND COLOR FOR SHEETING. SHEETING TYPE FOR MARKER.
		WISDOT SPEC 637 TYPE F	
		APPROVED PRODUCT LIST	
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS	
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

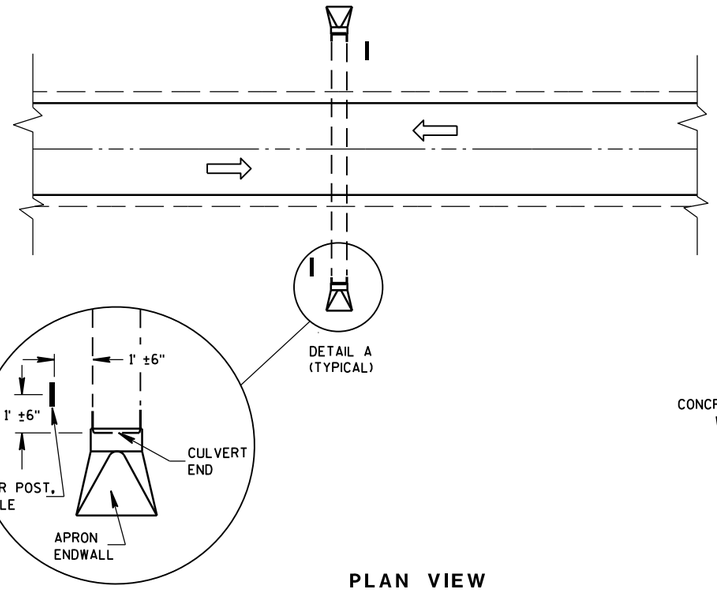
APPROVED
December 2024 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

6
SDD 14B53-03i



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

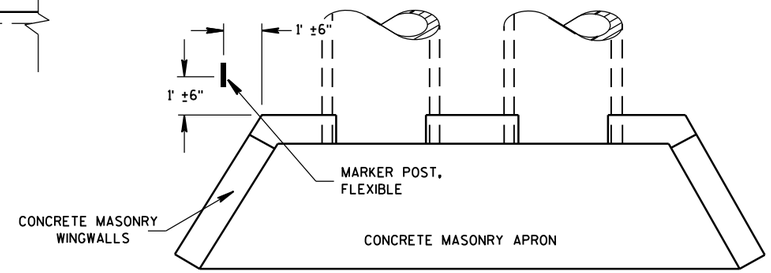
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

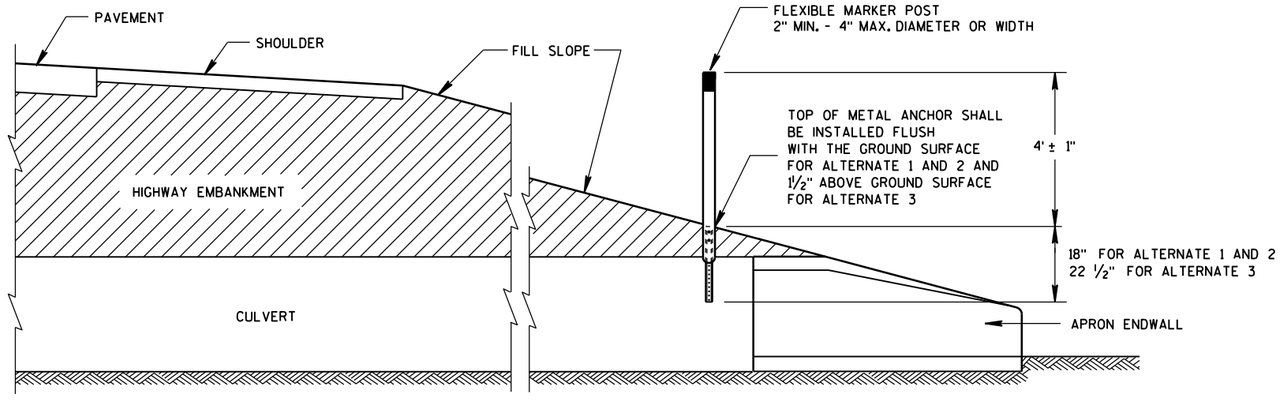
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

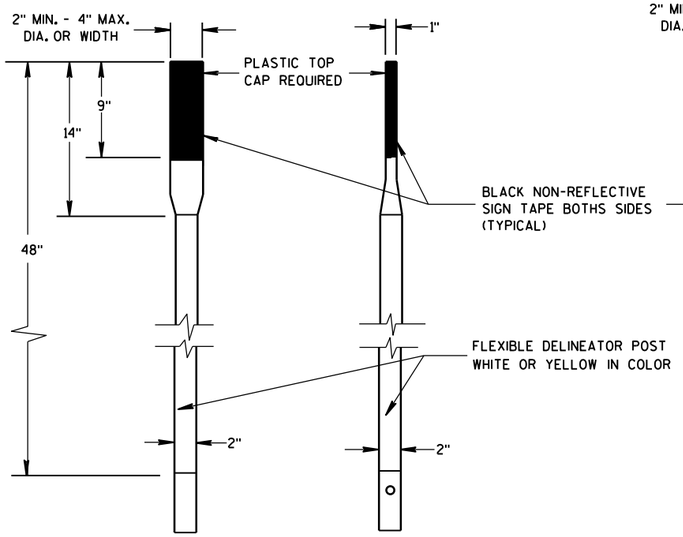
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

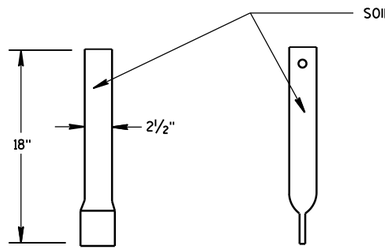
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S.D.D. 15 A 3-2a

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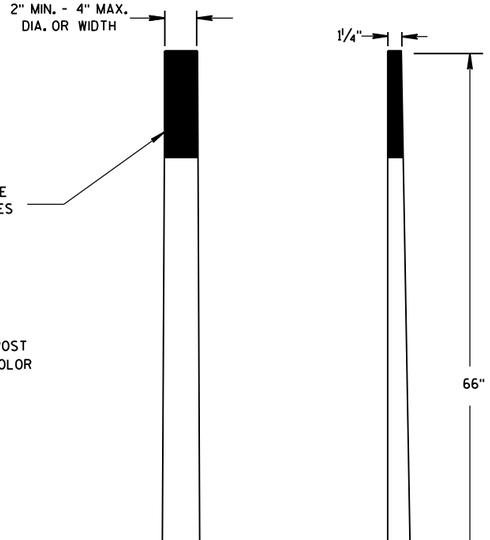
S.D.D. 15 A 3-2a





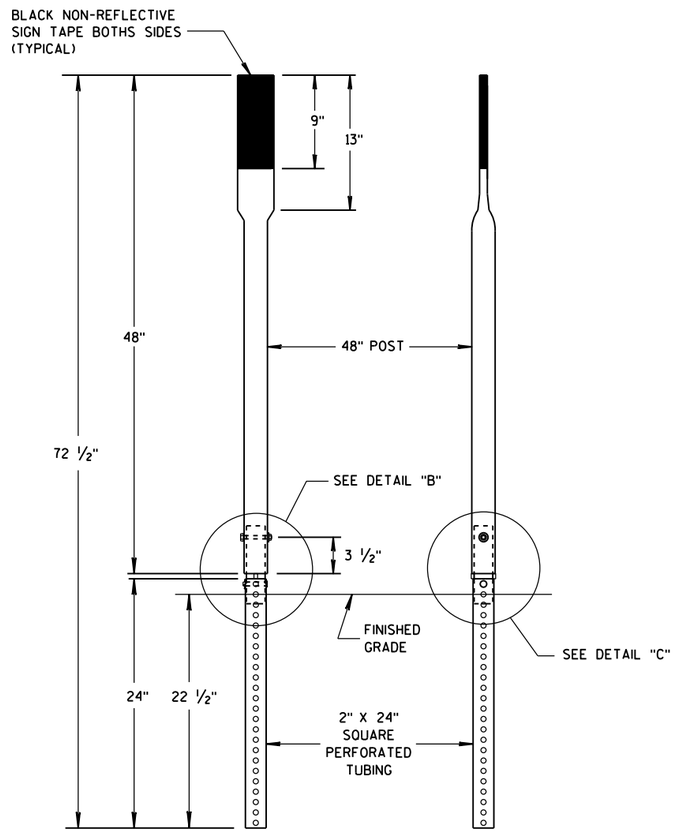
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

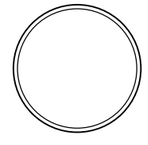
ALTERNATE 2



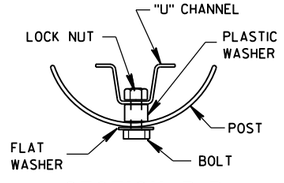
FRONT VIEW SIDE VIEW

ALTERNATE 3

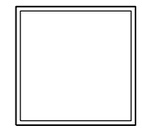
FLEXIBLE MARKER POSTS



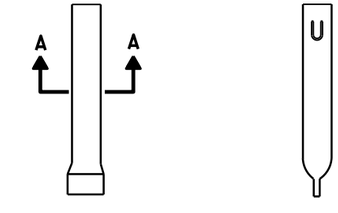
SECTION A-A



SECTION B-B

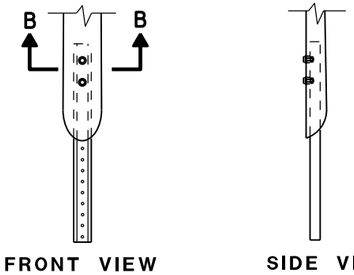


SECTION C-C



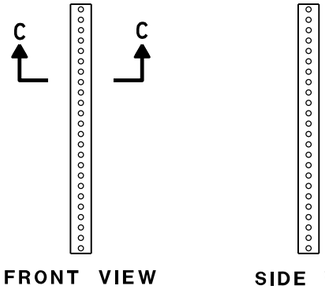
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

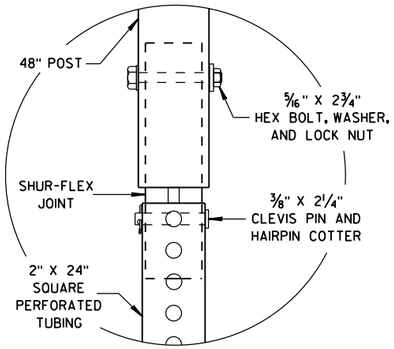
ALTERNATE 2



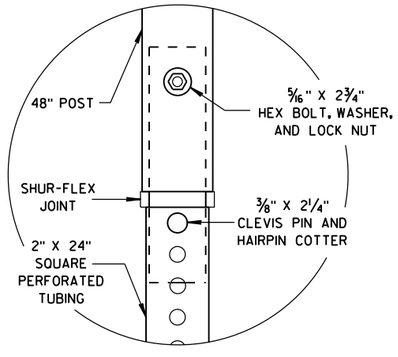
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

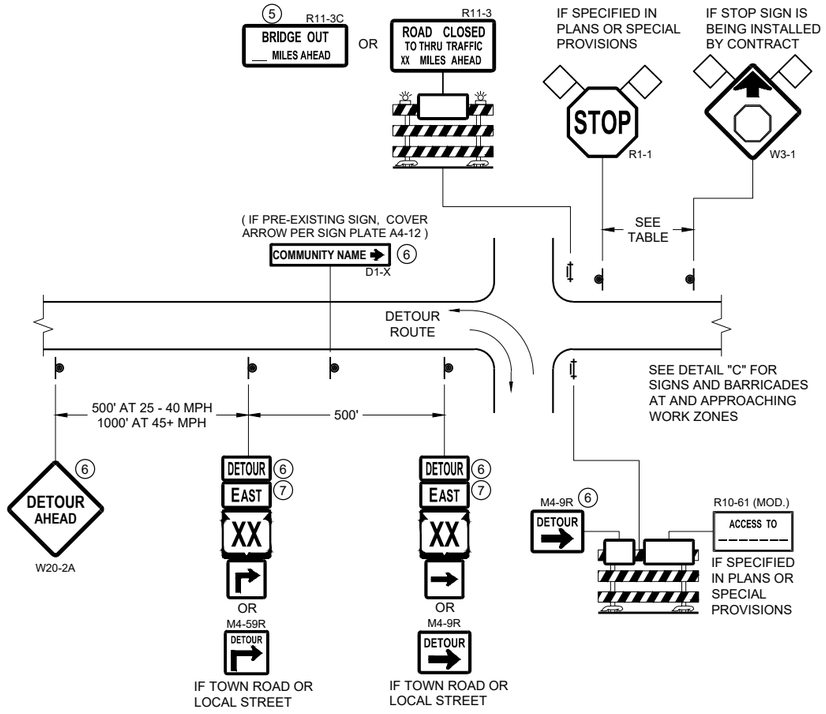
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 A 3-2b

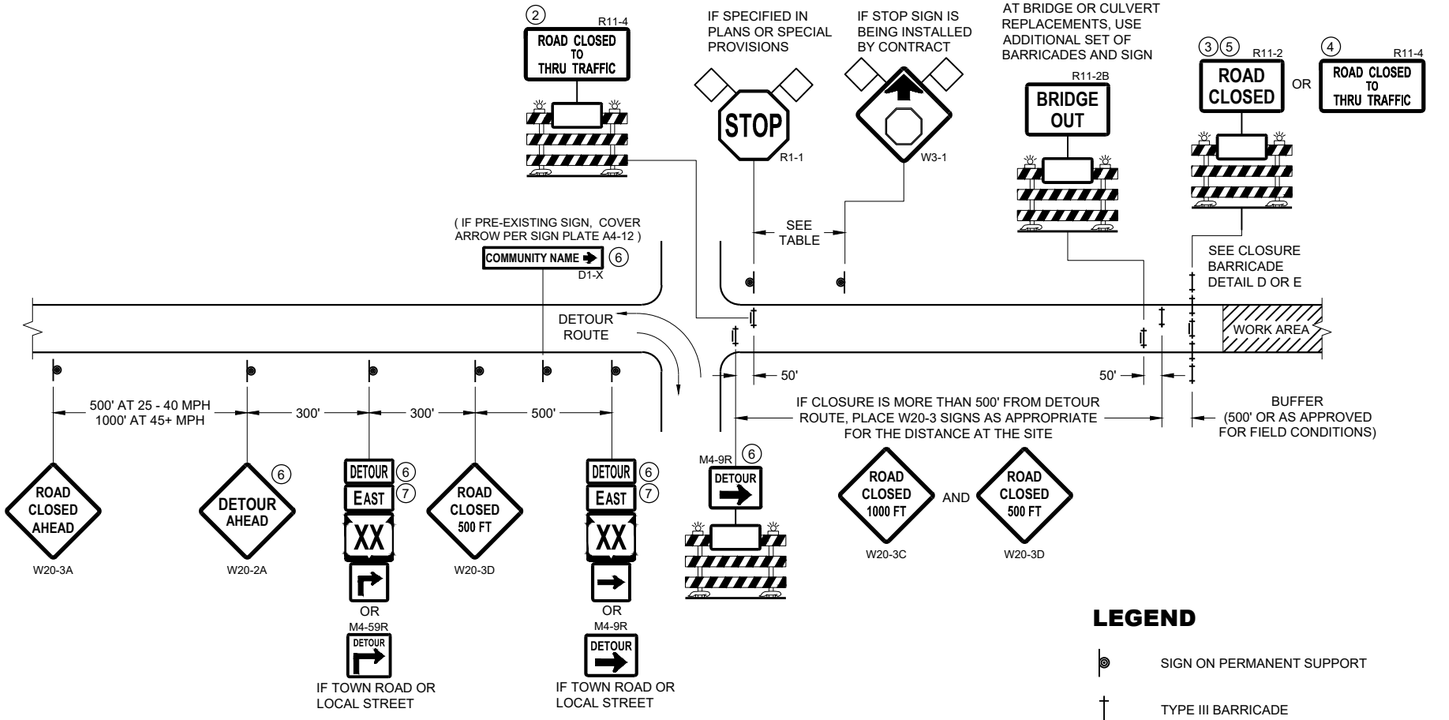
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S.D.D. 15 A 3-2b



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



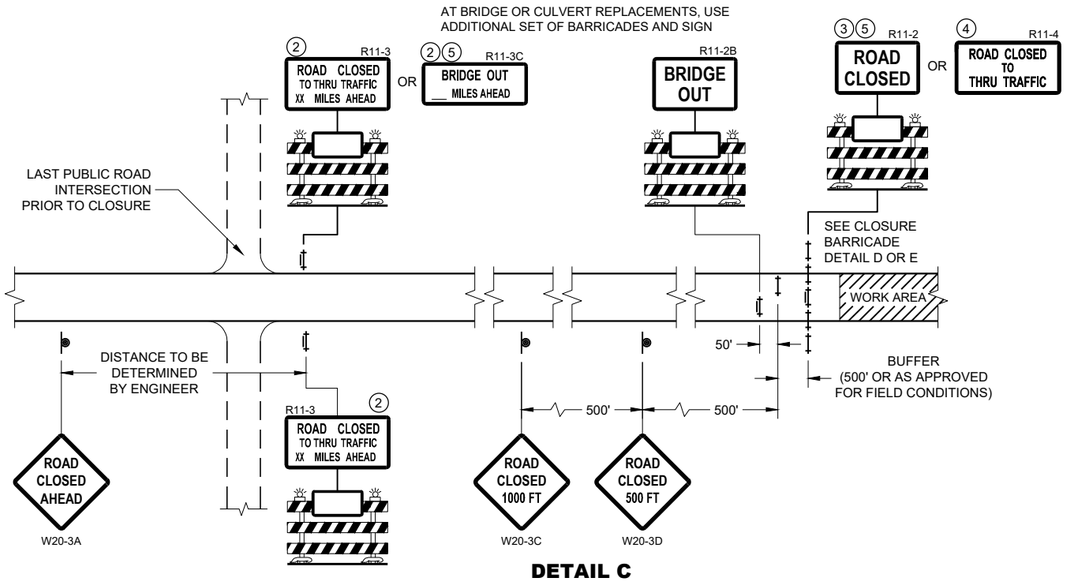
DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

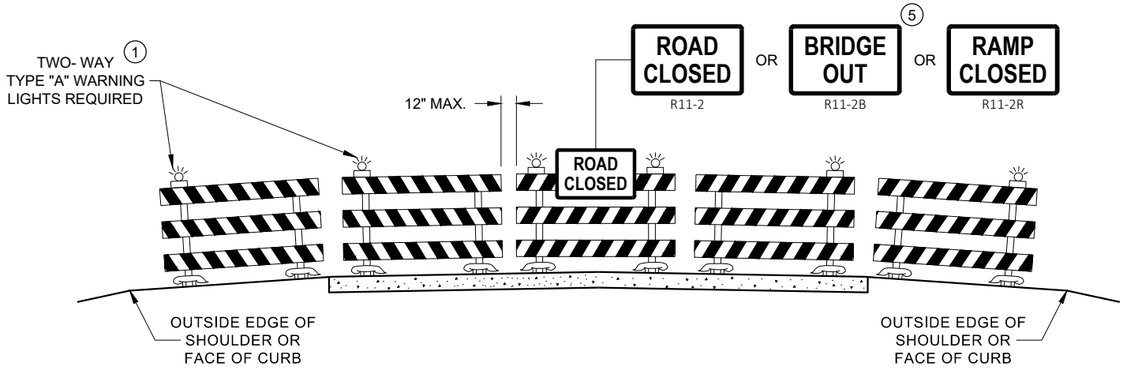
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

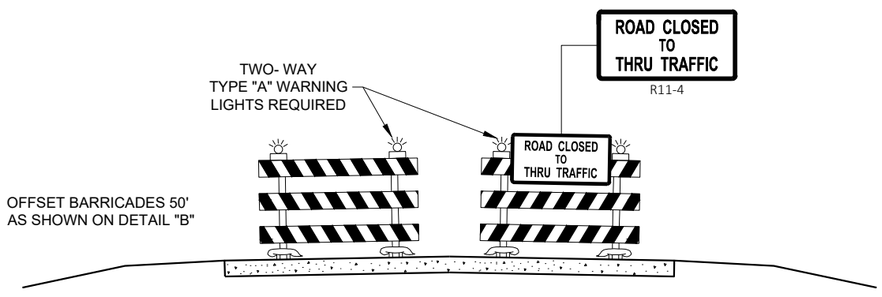
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SDD 15C02 - 09a

SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 09b

6

SDD 15C02 - 09b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

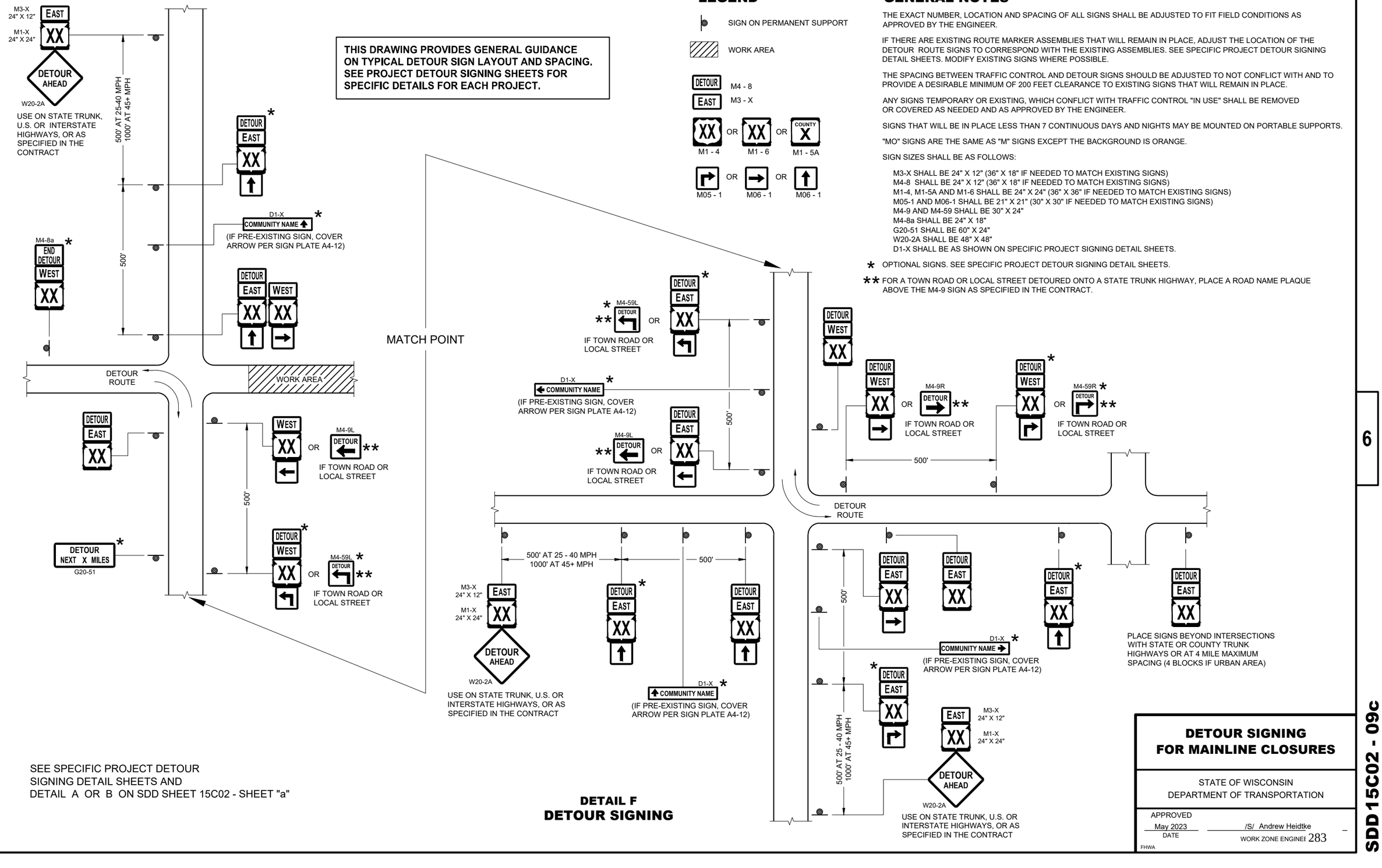
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

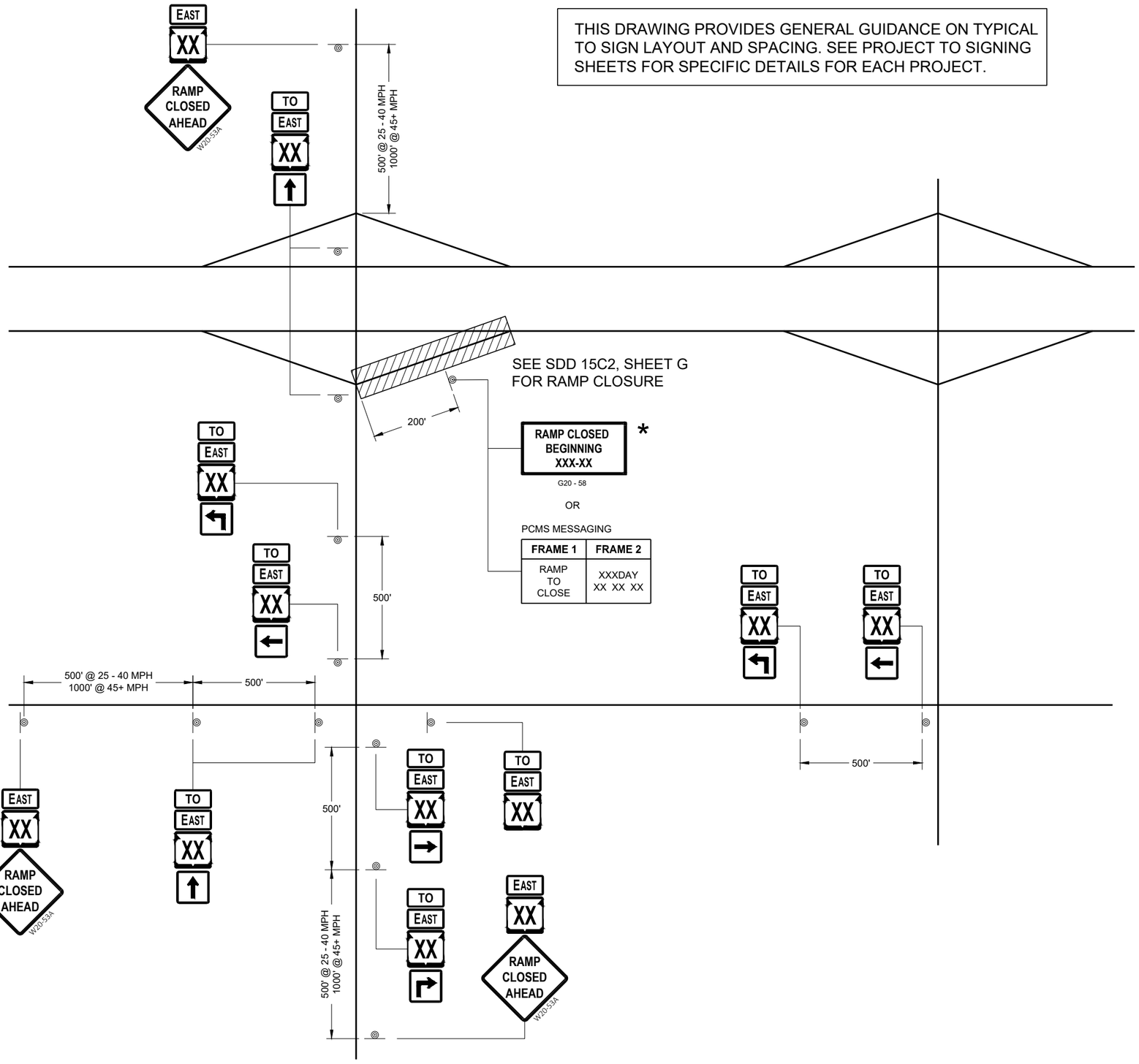
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C02 - 09c



THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

◎ SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ON RAMP LANE CLOSURE

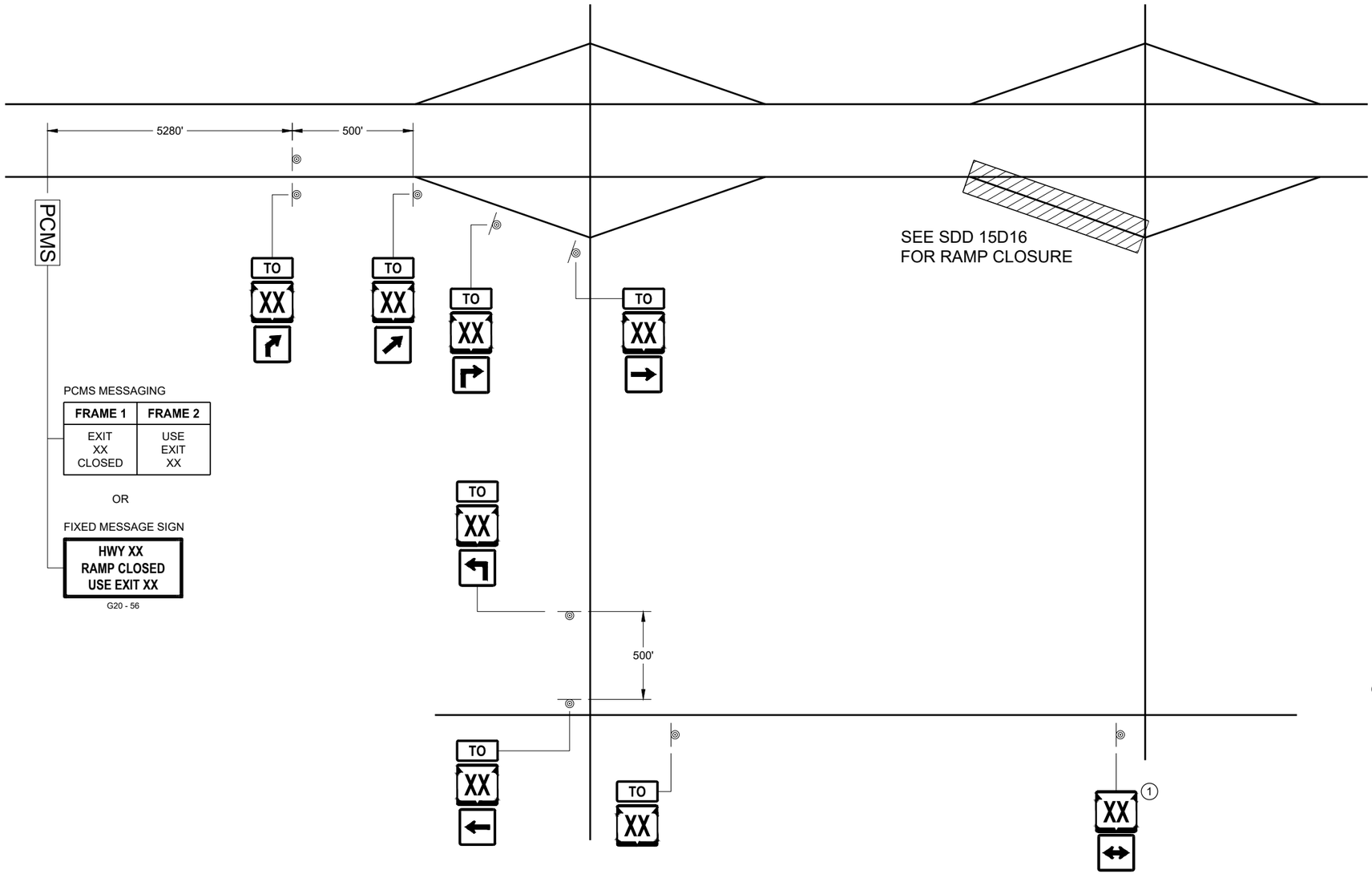
STATE OF WISCONSIN
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APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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SDD 15C02 - 09d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TO MO4 - 5

XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2 OR M06 - 4

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE "TO" MO-4 ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND "TO" MO-4 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 4, M1 - 5A, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

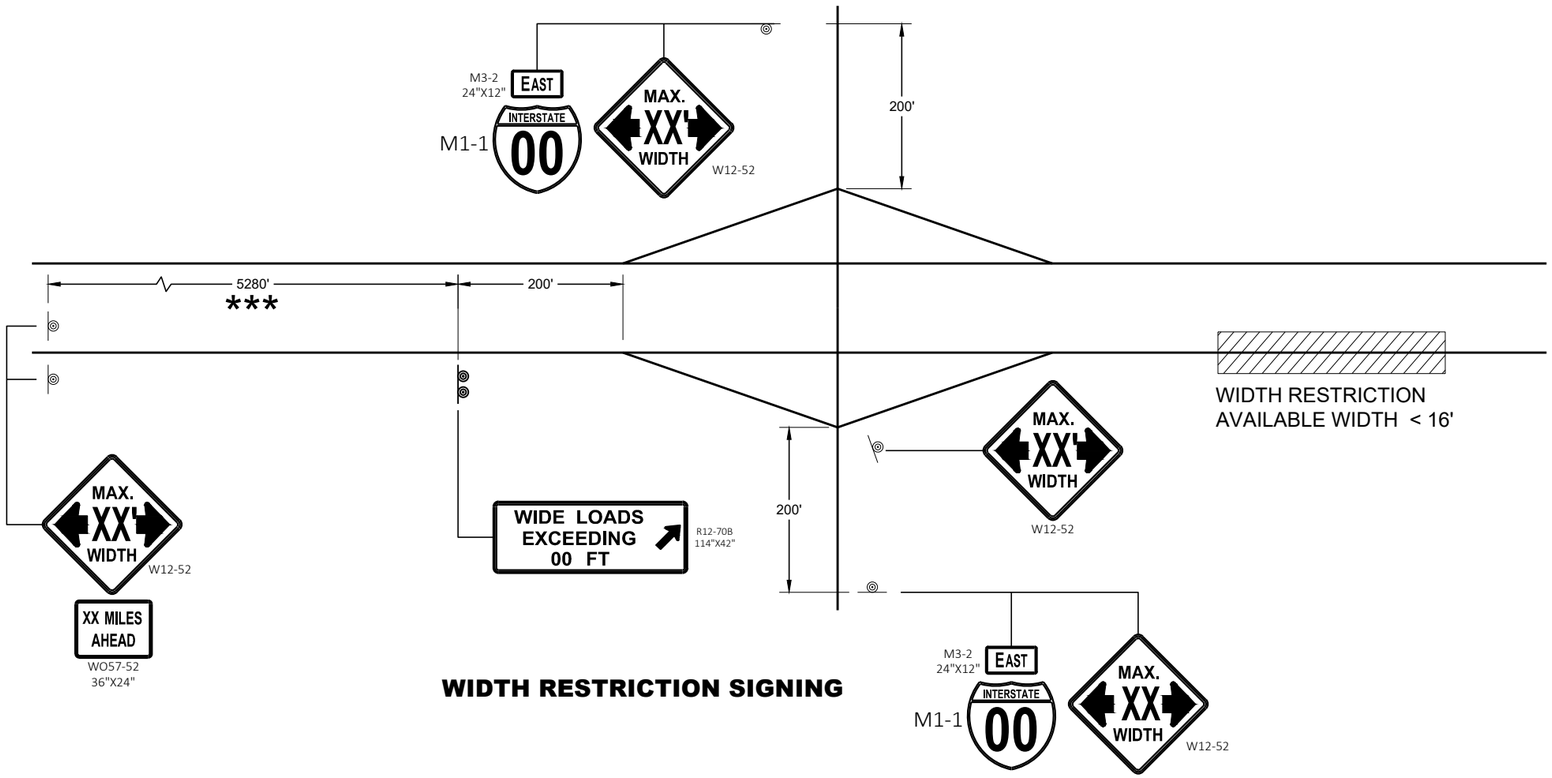
OFF RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

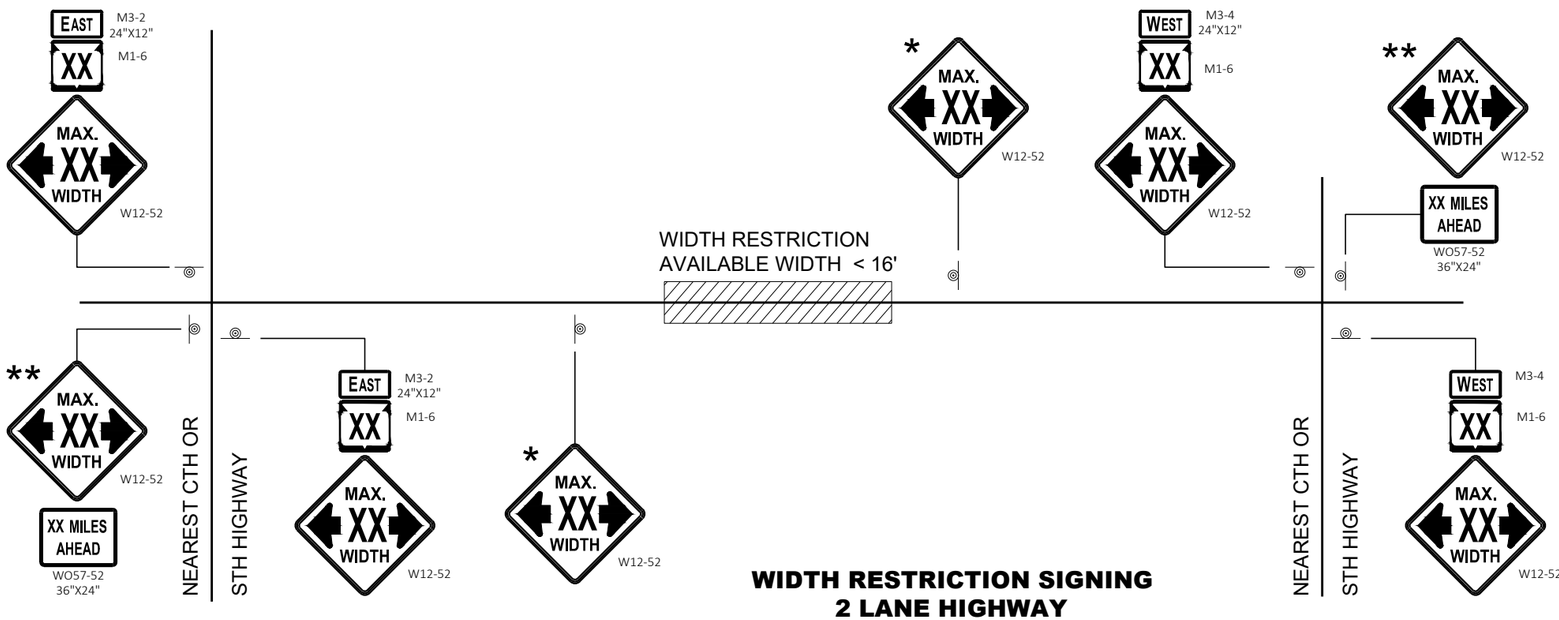
APPROVED
May 2023 DATE
/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA

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SDD 15C02 - 09e



WIDTH RESTRICTION SIGNING



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

LEGEND

◎ SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH

6

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SDD 15C02 - 09f

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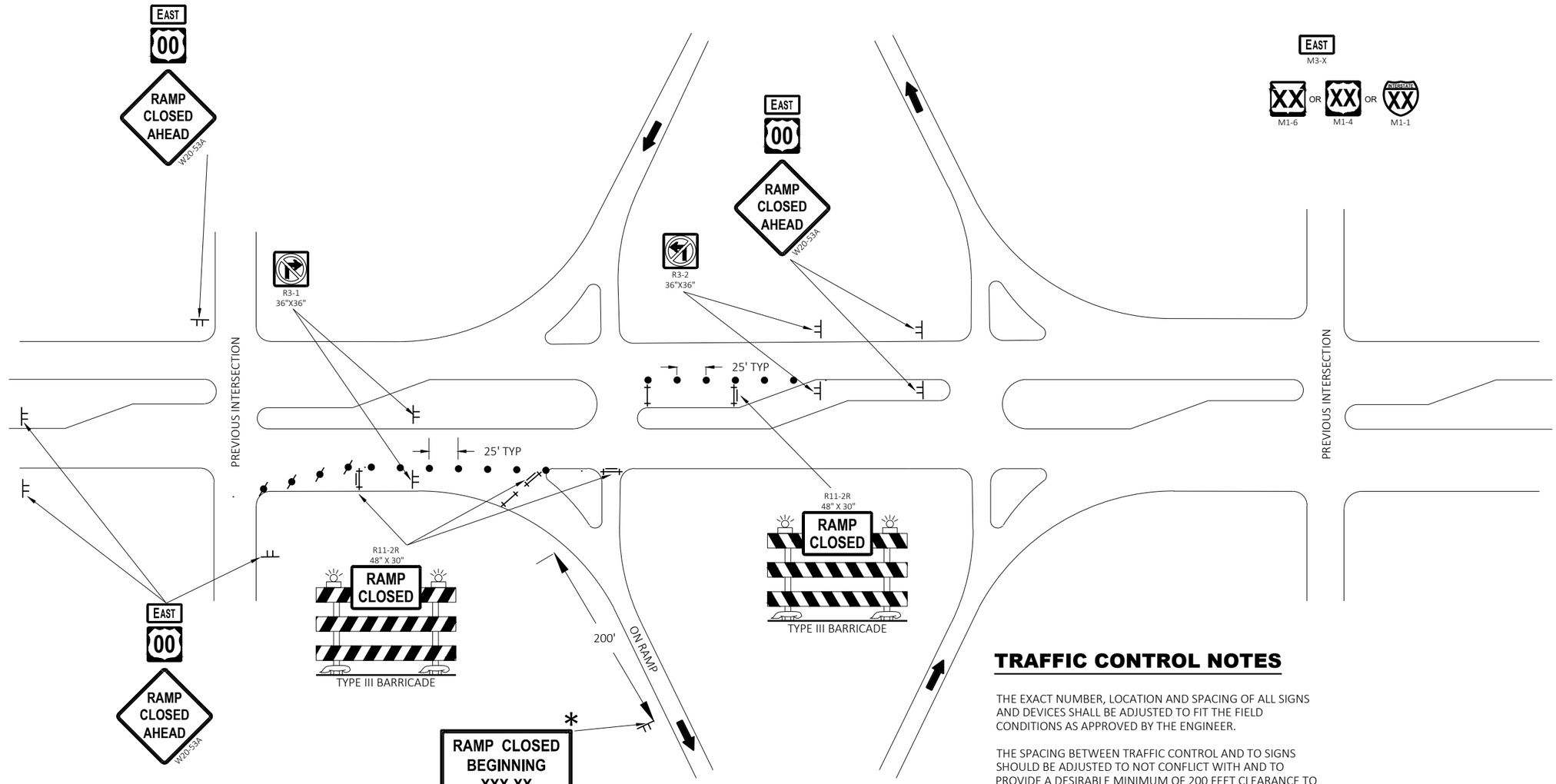
ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT THE FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24"x24" (36" x18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-1, M1-4, AND M1-6 SHALL BE 24"x24" (36"x36" IF NEEDED TO MATCH EXISTING SIGNS)
- W20-53A SHALL BE 48"X48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE

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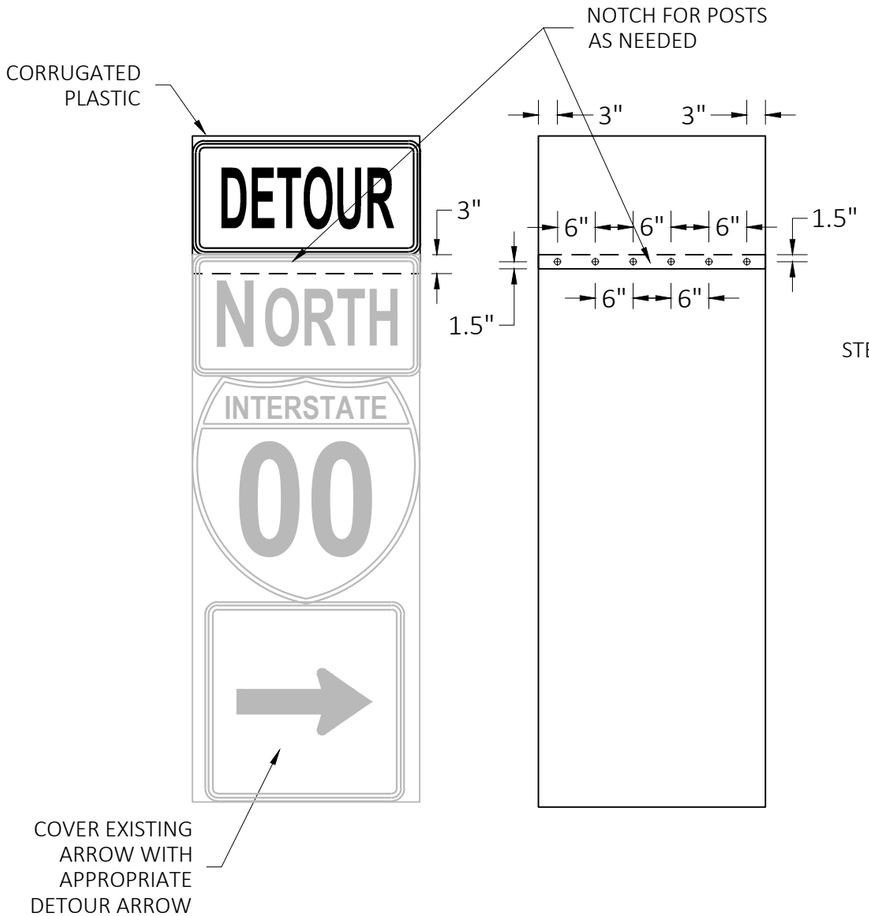
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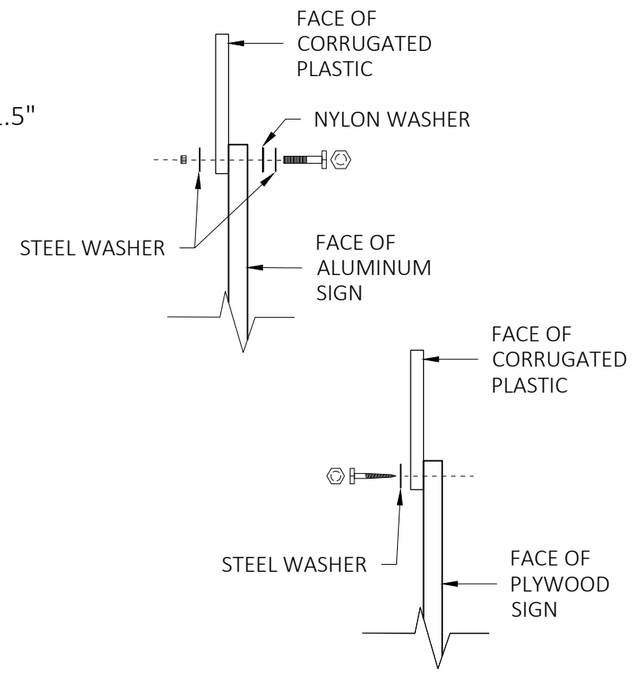
SDD 15C02-09g

FRONT SIDE

BACK SIDE

SIDE VIEW





GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3.

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
1-1/4" O.D. x 3/8" I.D. x .080 NYLON

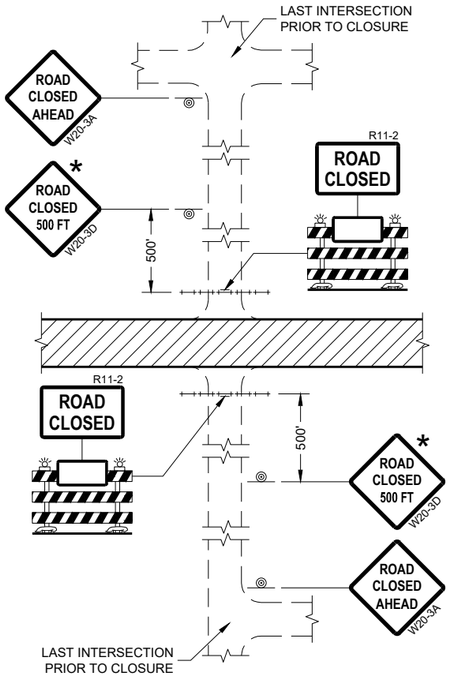
MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

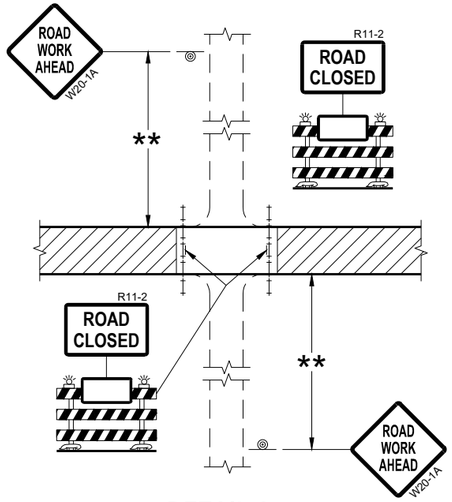
STATE OF WISCONSIN
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APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVEL ENGINEER
FHWA

6
SDD 15C02-09h



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

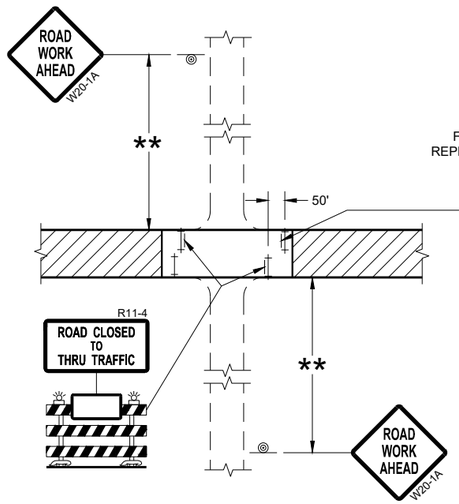
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

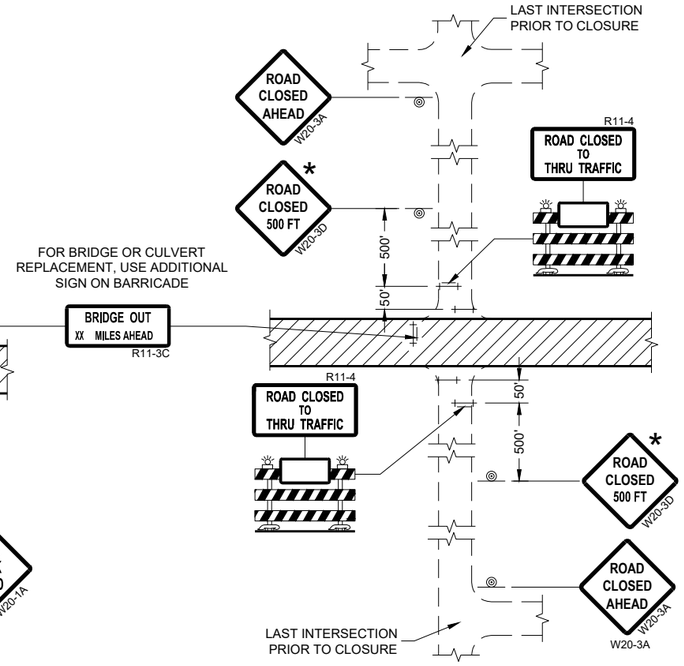
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C03 - 05

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

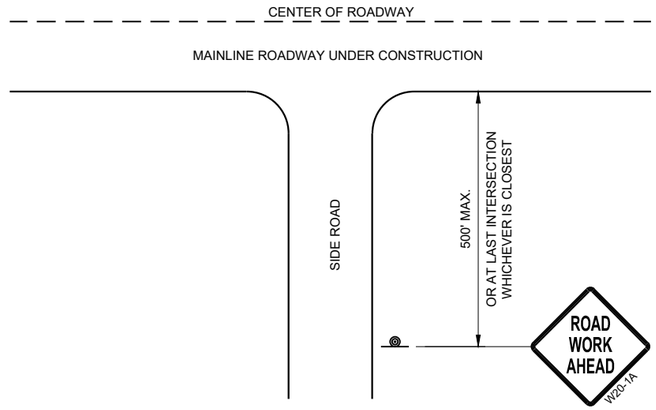
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



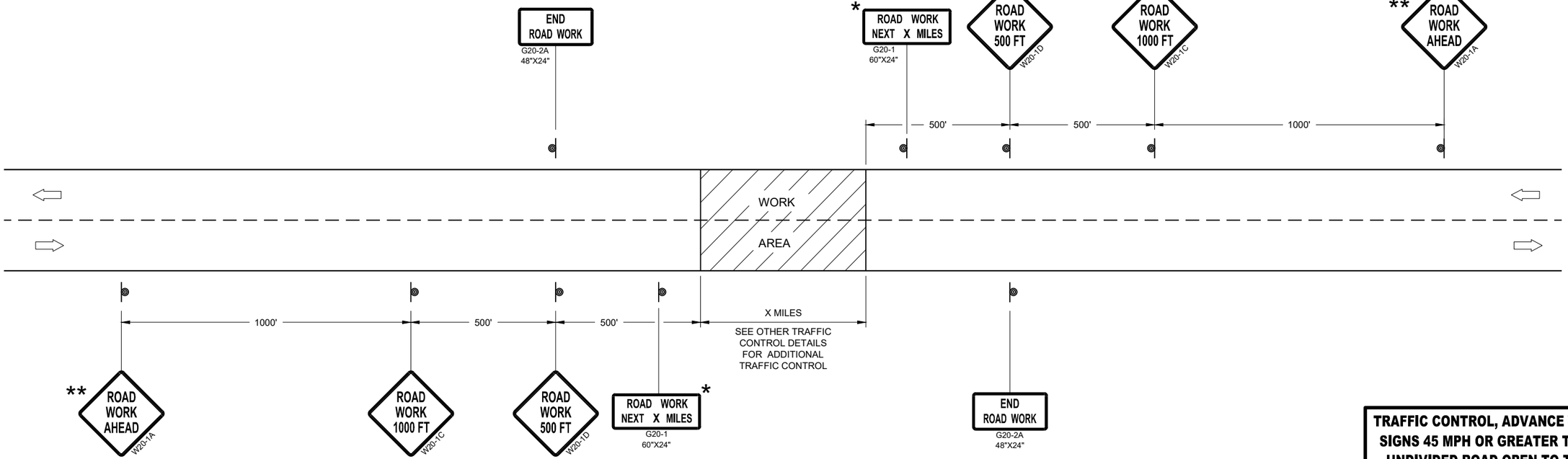
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

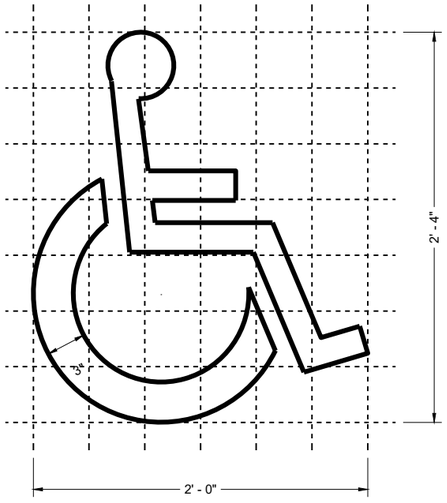
FHWA

6

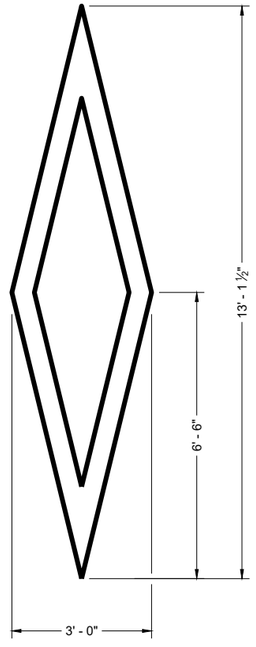
SDD 15C04 - 05

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07-16a

SDD 15C07-16a

PAVEMENT MARKING SYMBOLS

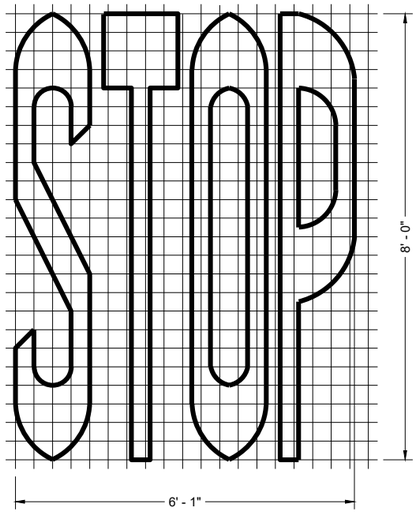
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

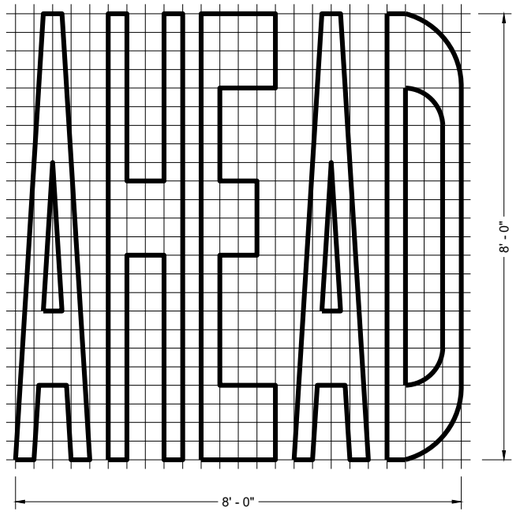
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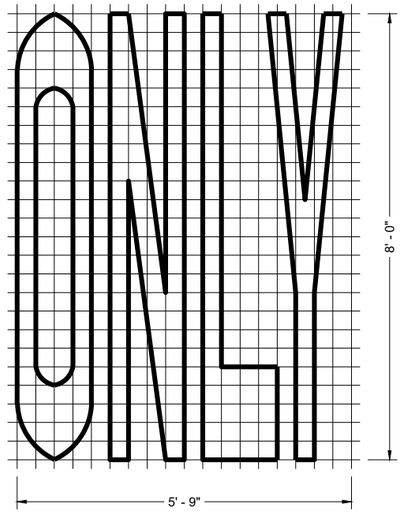
November 2024
DATE

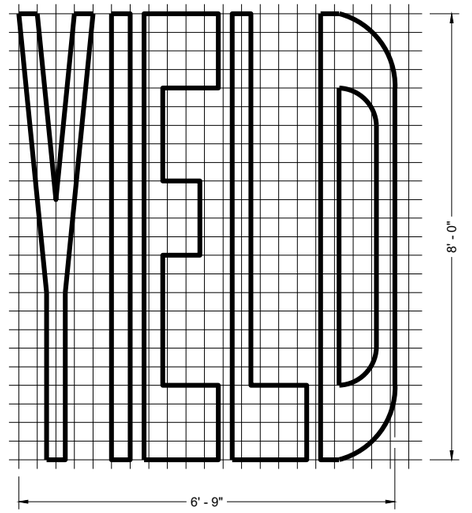
/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

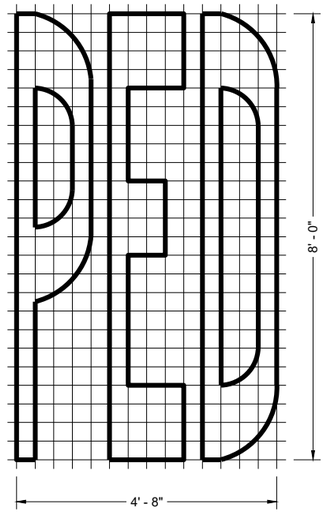
FHWA

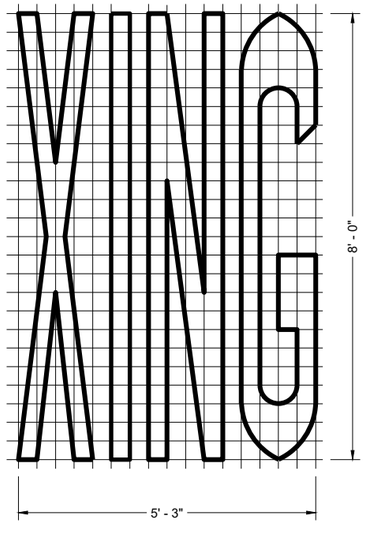


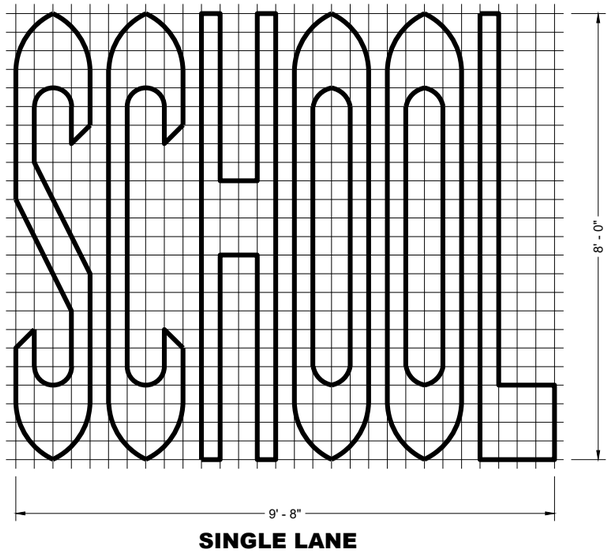




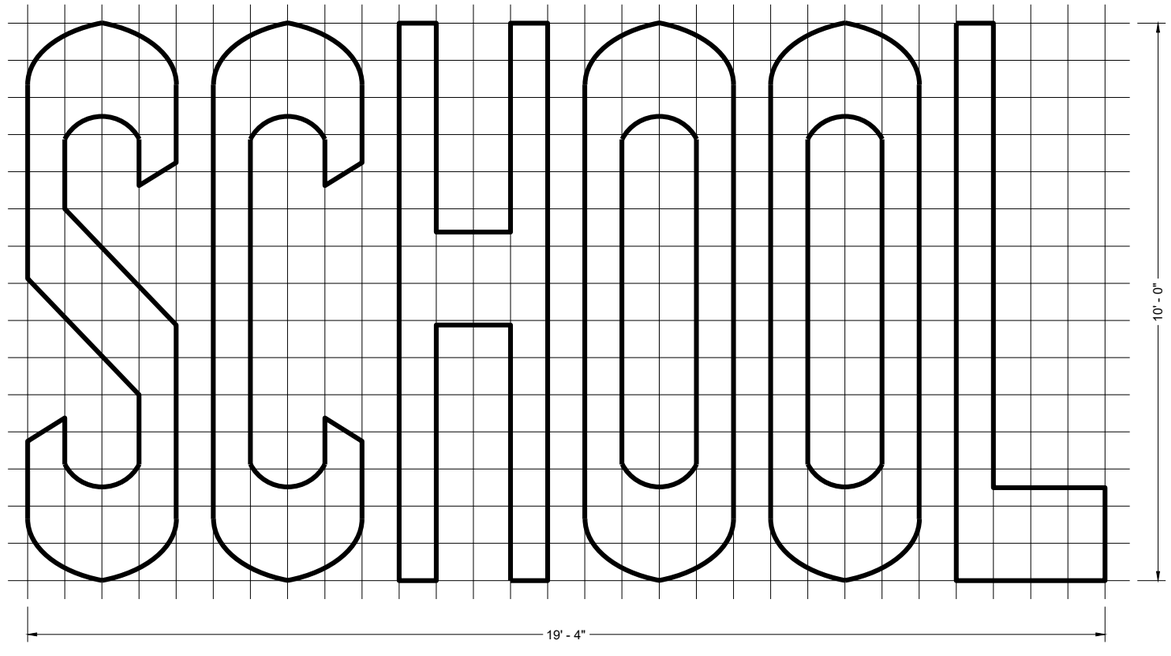








SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

6

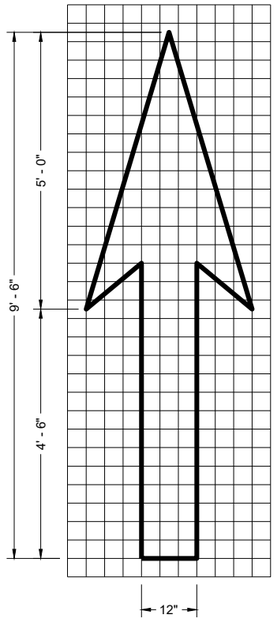
SDD 15C07-16b

6

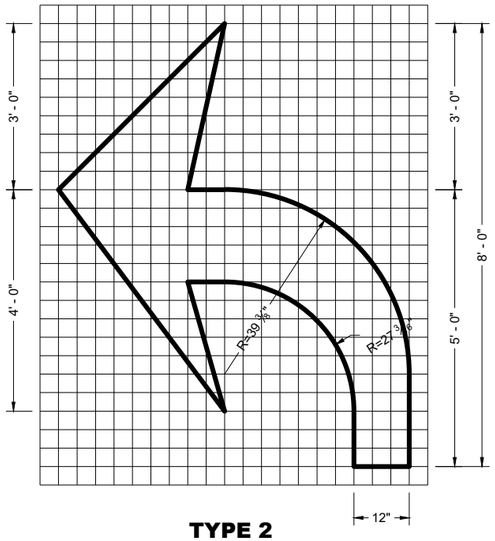
SDD 15C07-16b

GENERAL NOTES

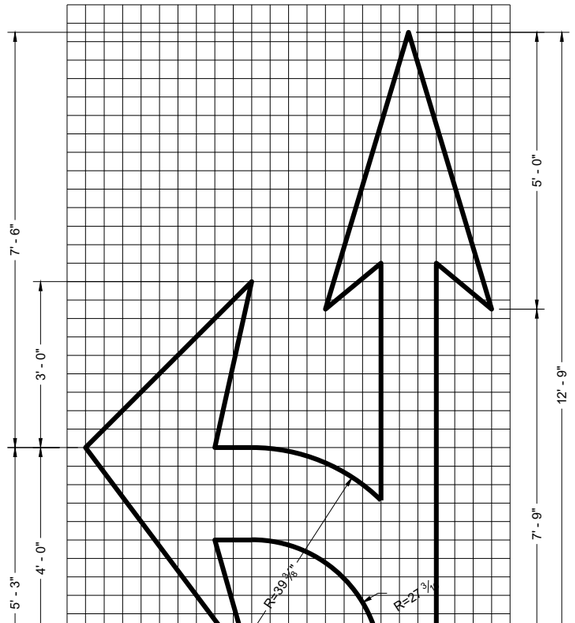
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



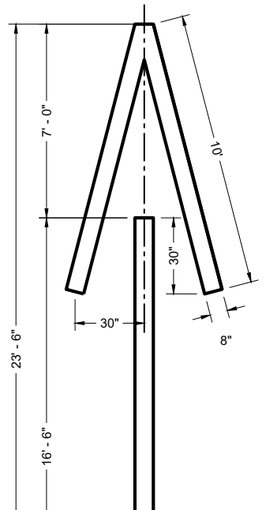
TYPE 1



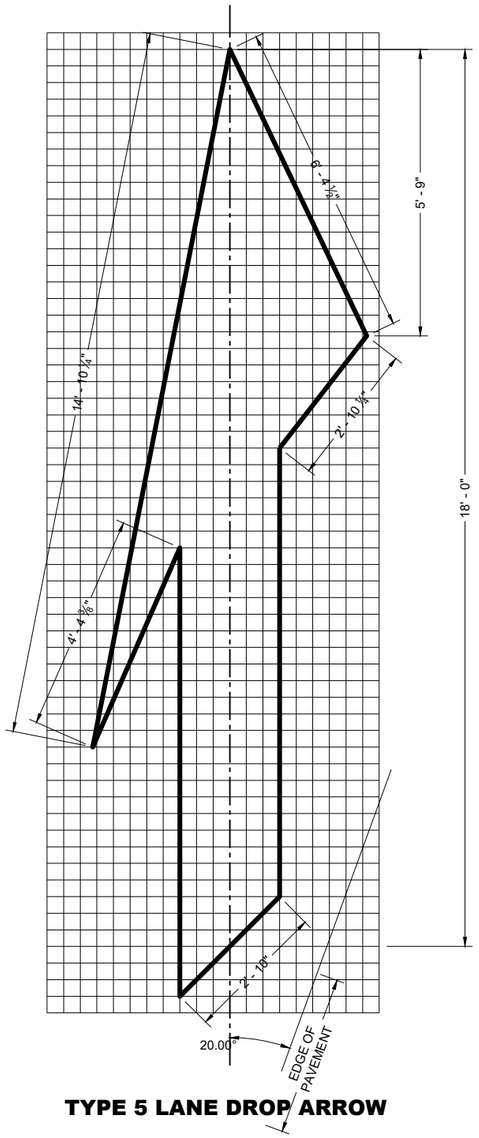
TYPE 2



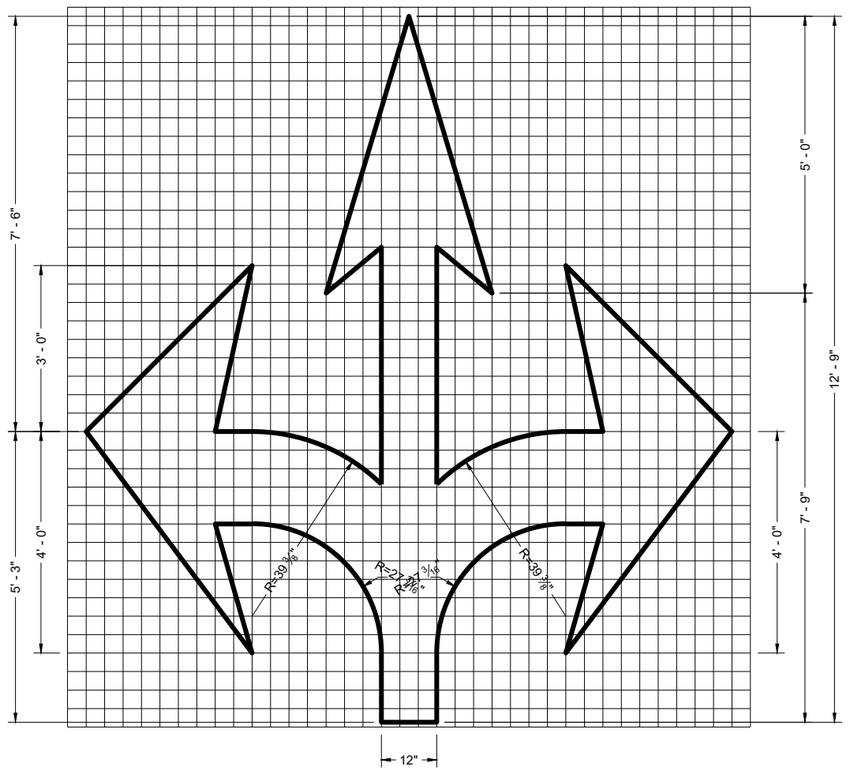
TYPE 3



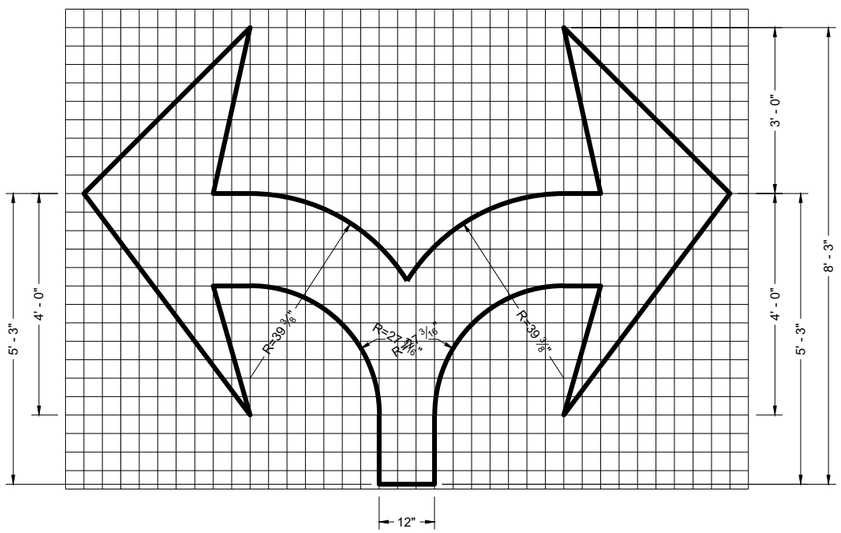
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

6

SDD 15C07-16c

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

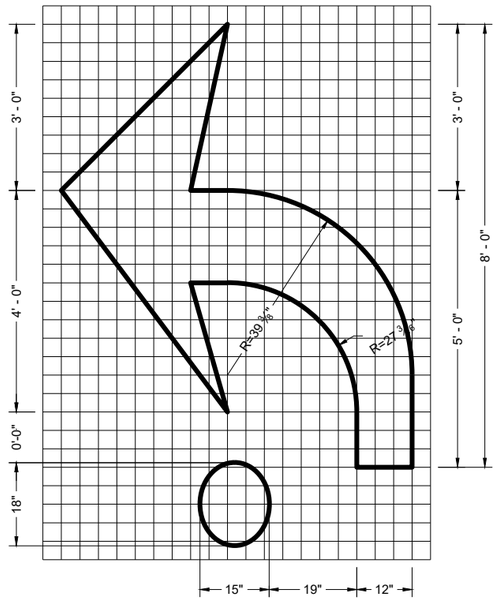
FHWA

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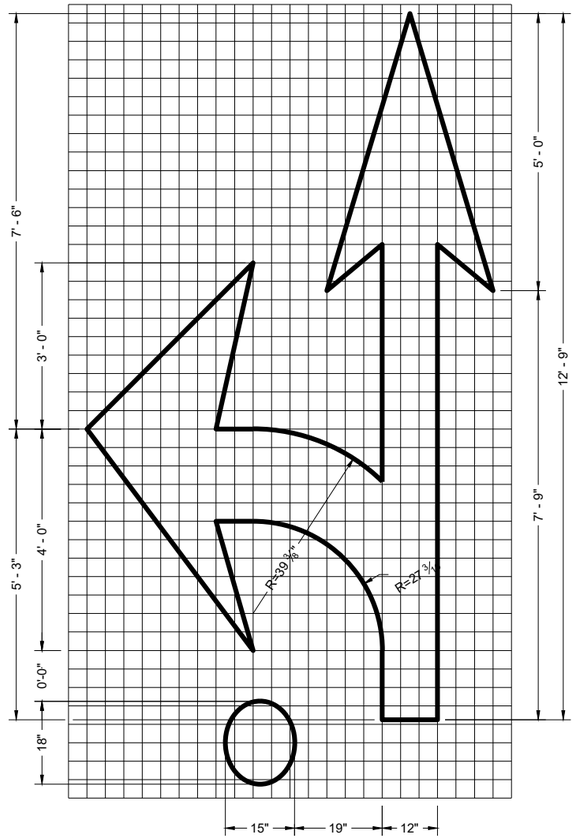
SDD 15C07-16c

GENERAL NOTES

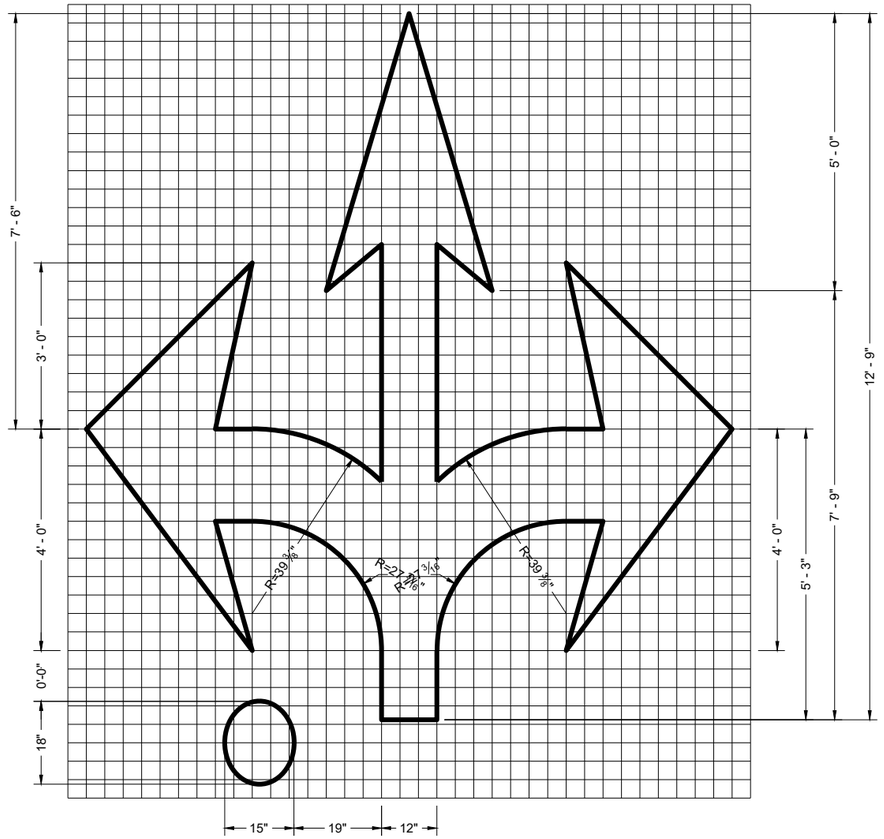
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



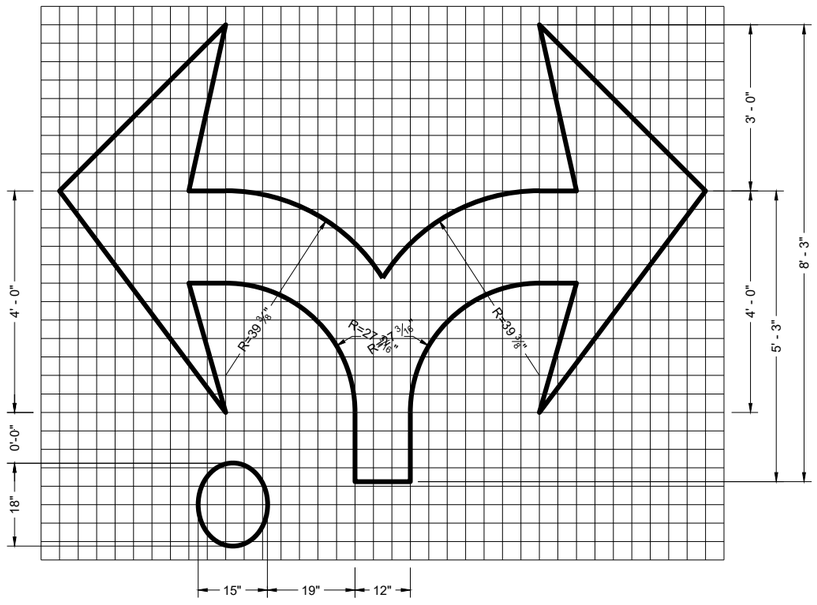
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

ROUNDABOUT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

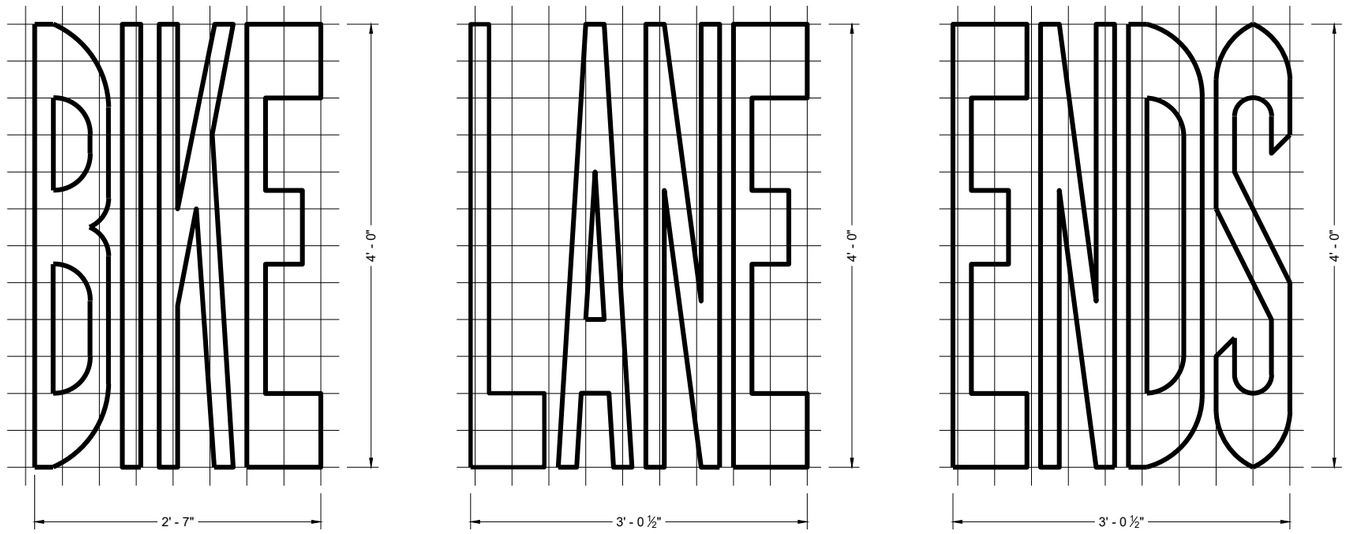
FHWA

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SDD 15C07-16d

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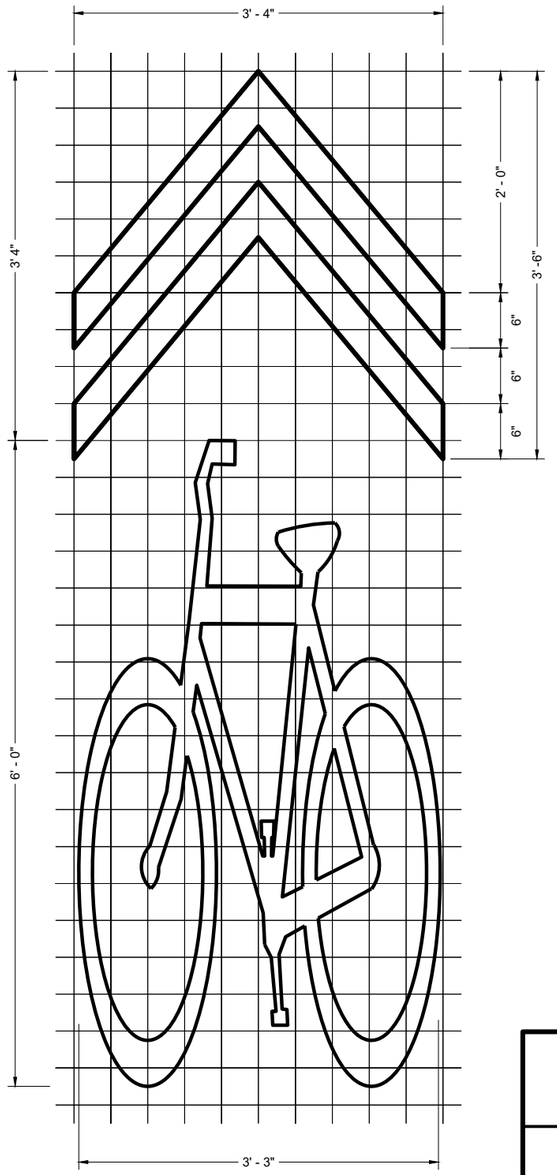
SDD 15C07-16d



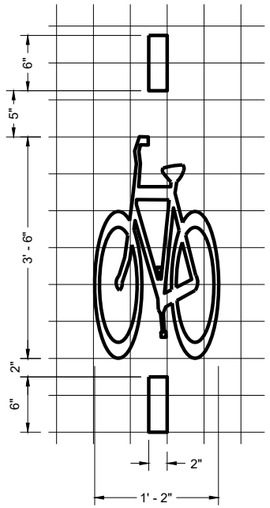
BIKE LANE WORDS

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C07-16e

6

SDD 15C07-16e

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

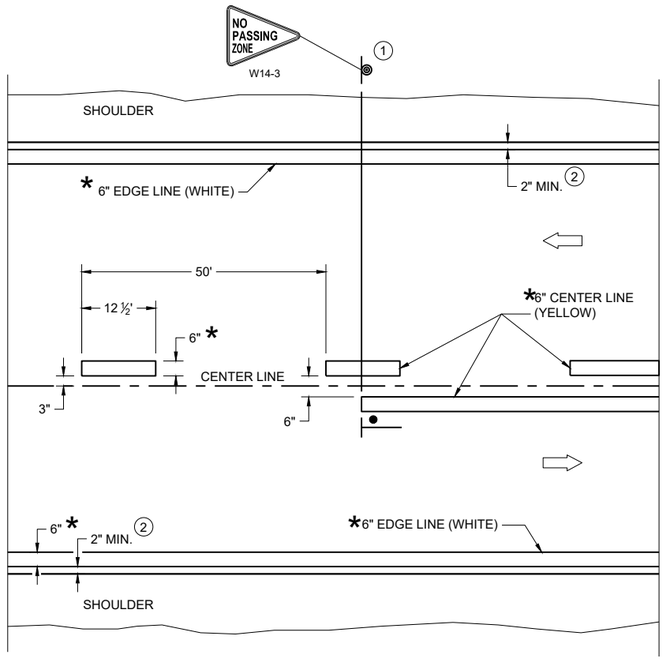
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

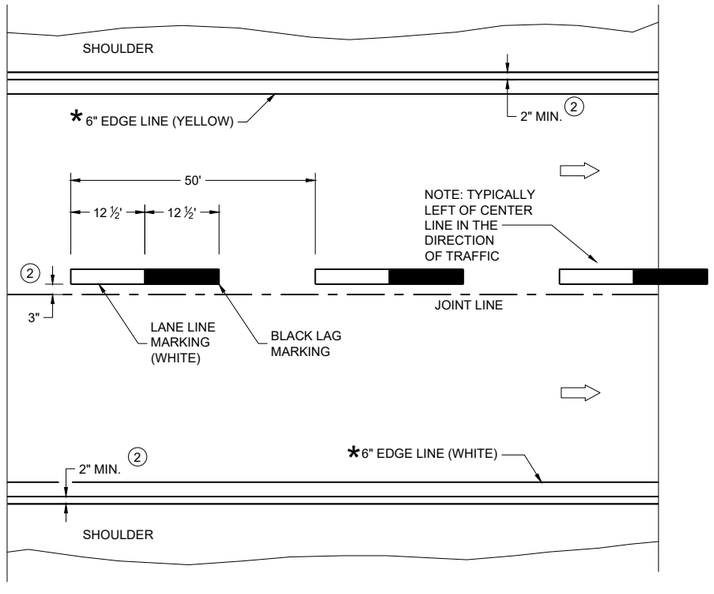
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE

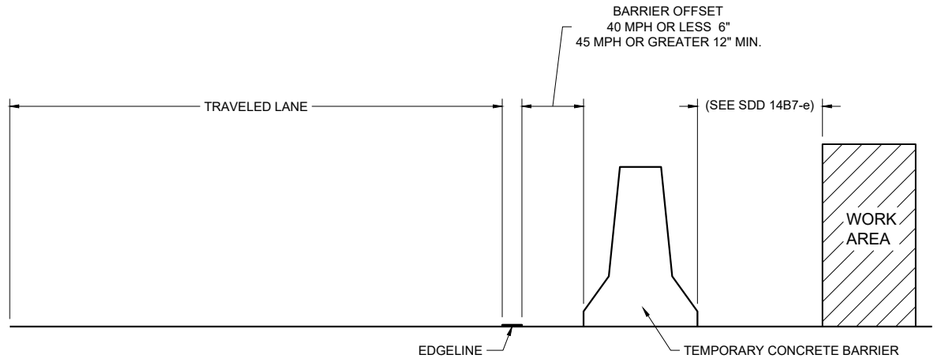
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C08-24a

SDD 15C08-24a



TEMPORARY BARRIER OFFSET FROM EDGELINE

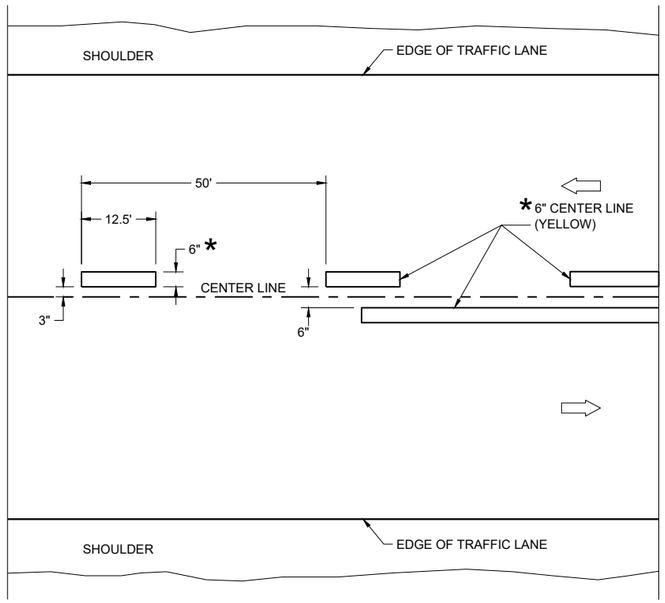
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

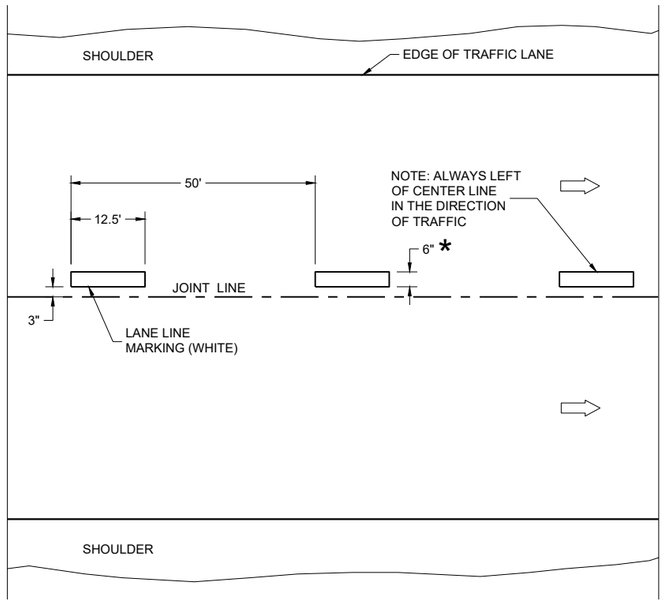
LEGEND

⇨ DIRECTION OF TRAFFIC

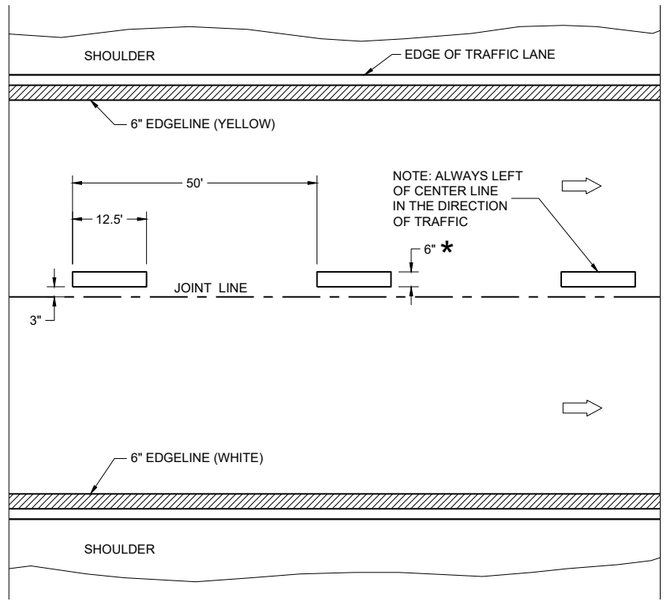
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA

6

SDD 15C08-24b

6

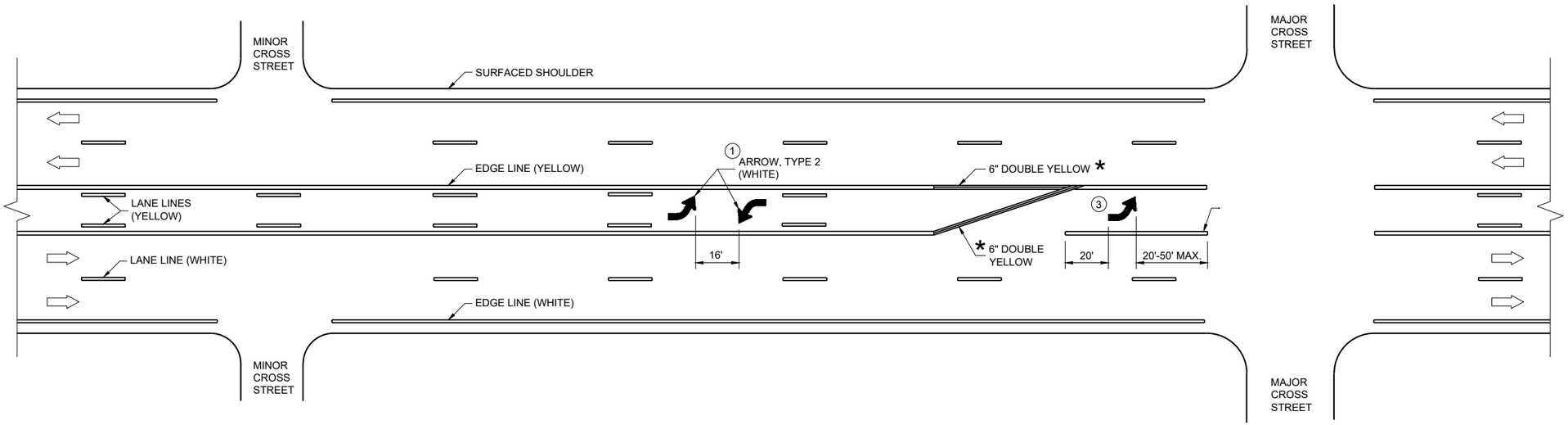
SDD 15C08-24b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY LEFT TURN LANE

6

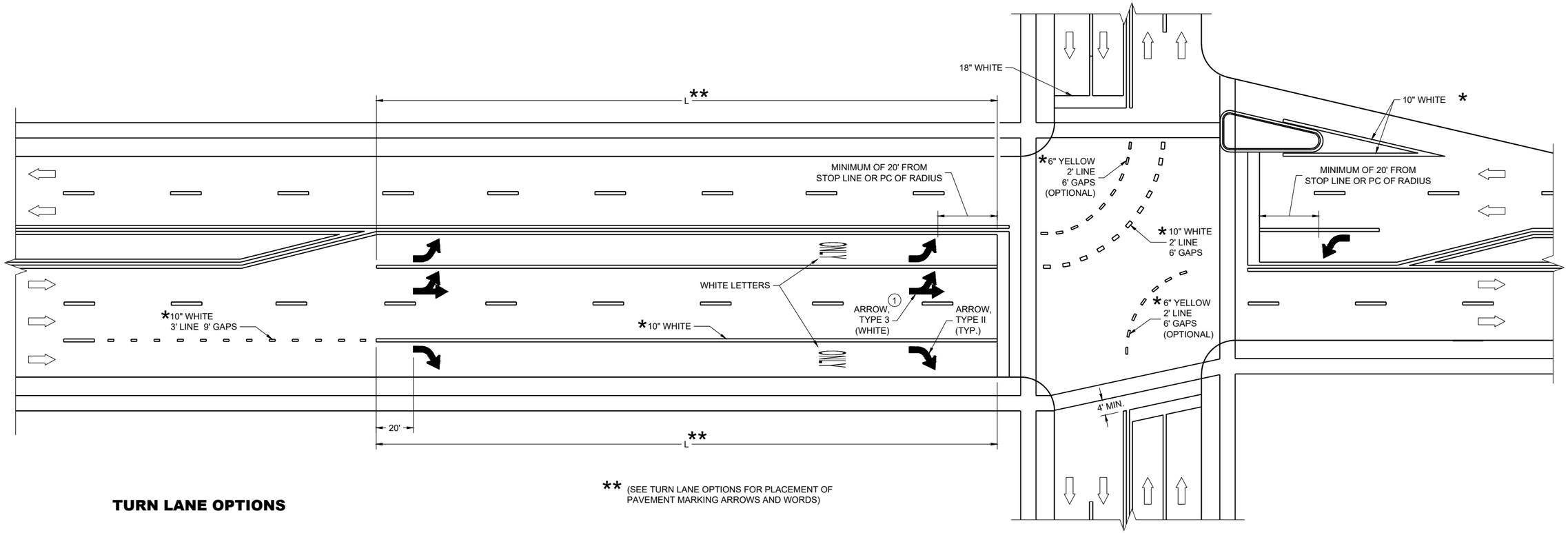
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SDD 15C08-24c

SDD 15C08-24c

PAVEMENT MARKING (TURN LANES)

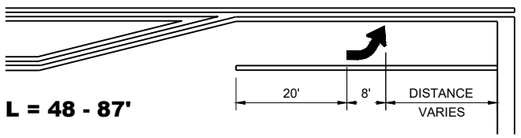
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



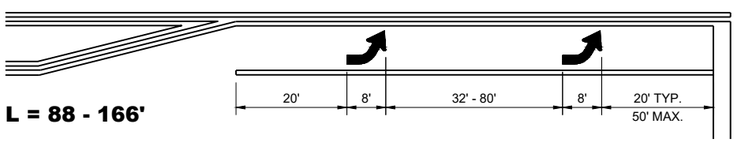
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

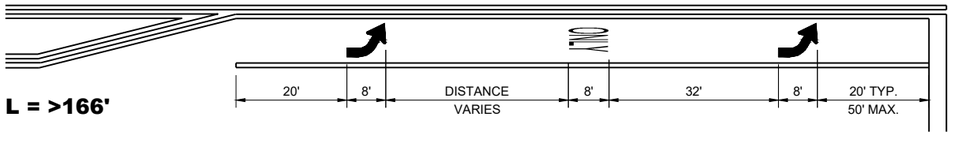
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT
REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

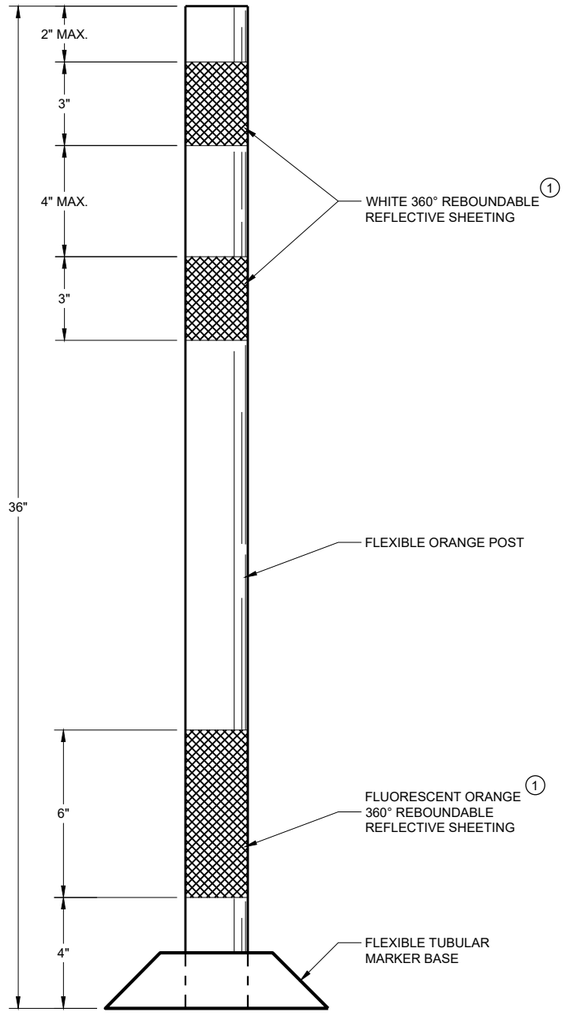
DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

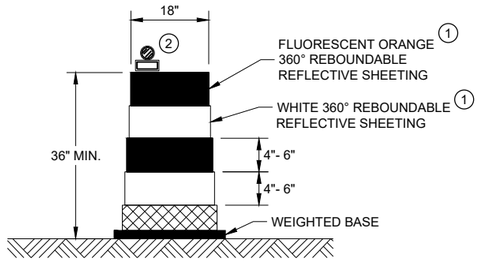
APPROVED
November 2022
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

6

SDD 15C11 - 10a

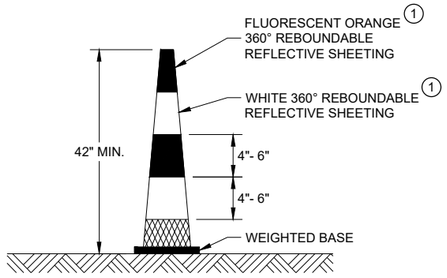
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

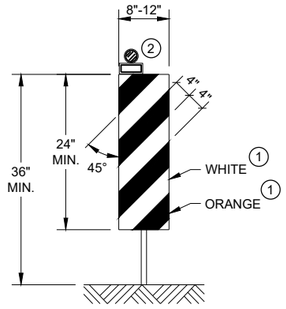
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

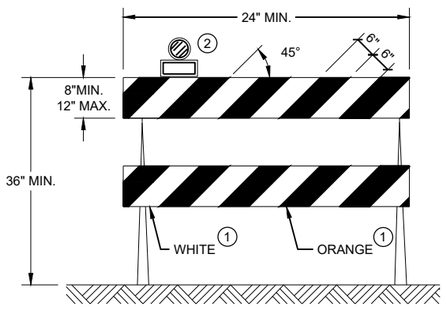
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



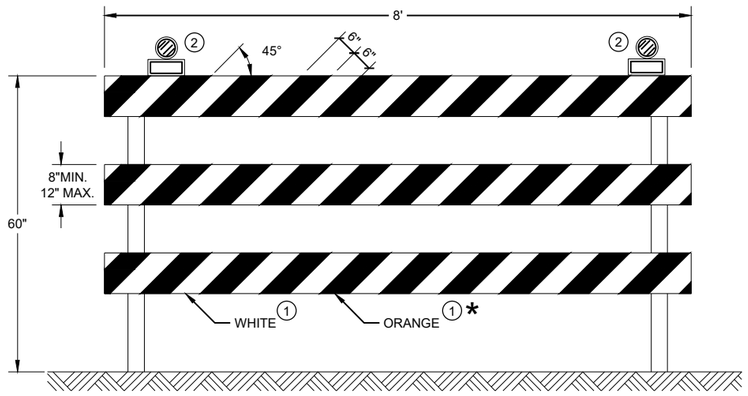
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

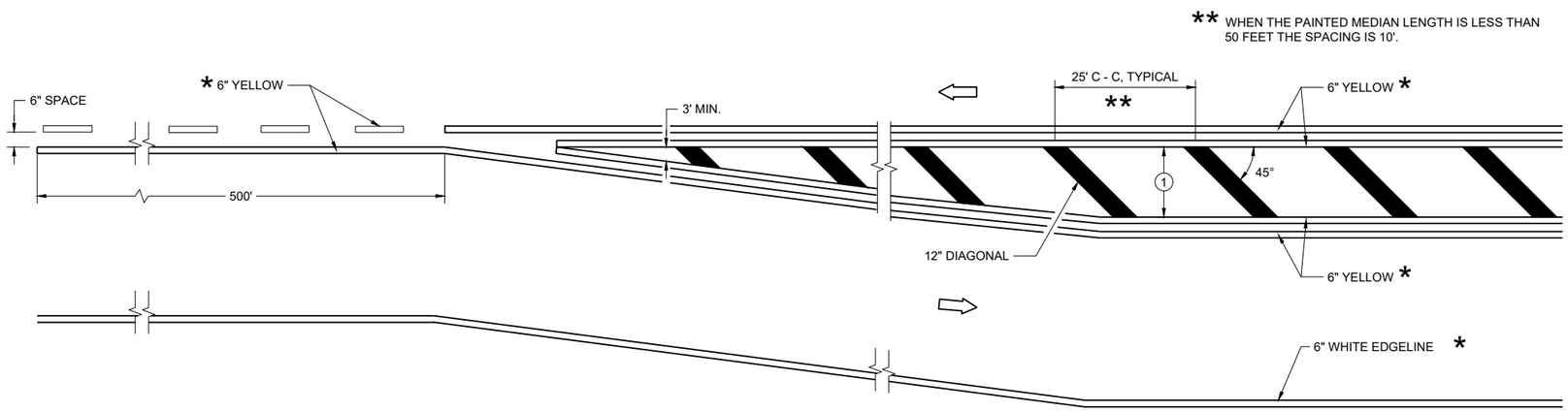
FHWA

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SDD 15C11 - 10b

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SDD 15C11 - 10b



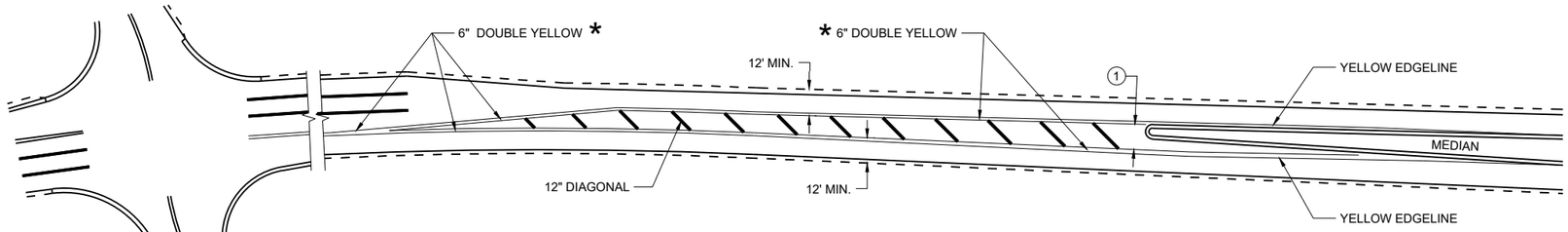
MEDIAN ISLAND DETAIL

GENERAL NOTES

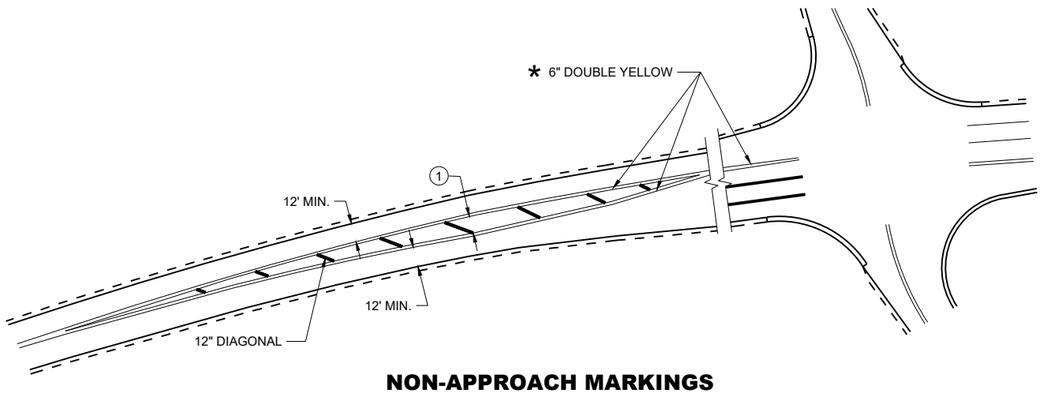
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

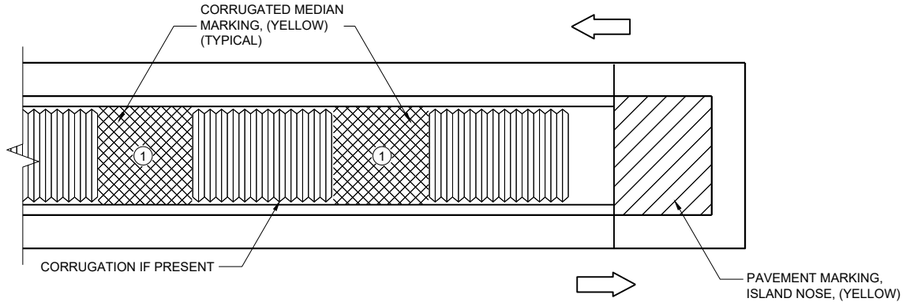
APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

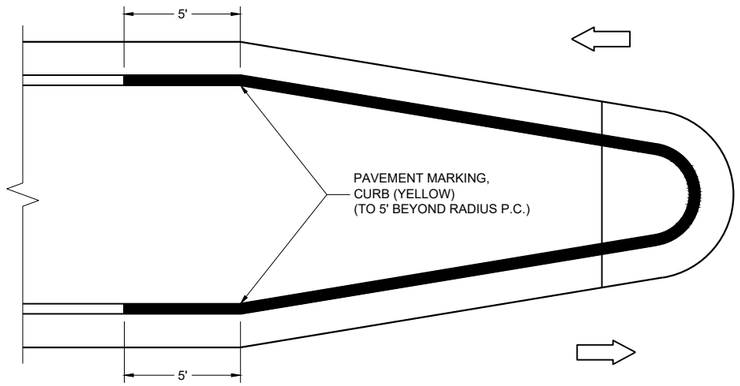
FHWA

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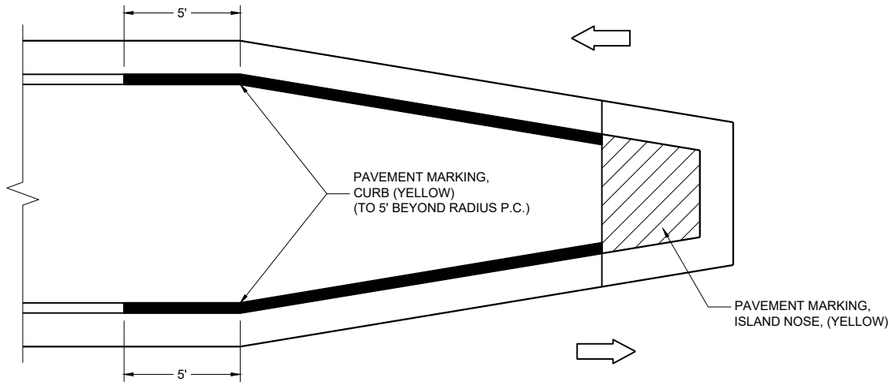
SDD 15C18-09a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

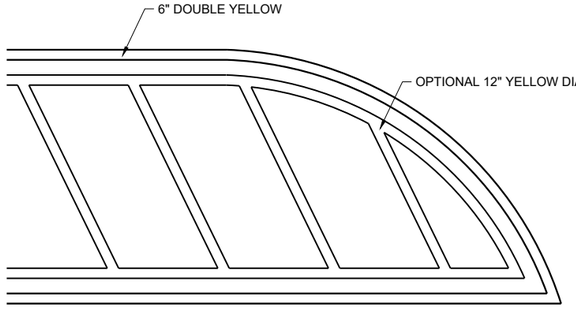
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

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SDD 15C18-09b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

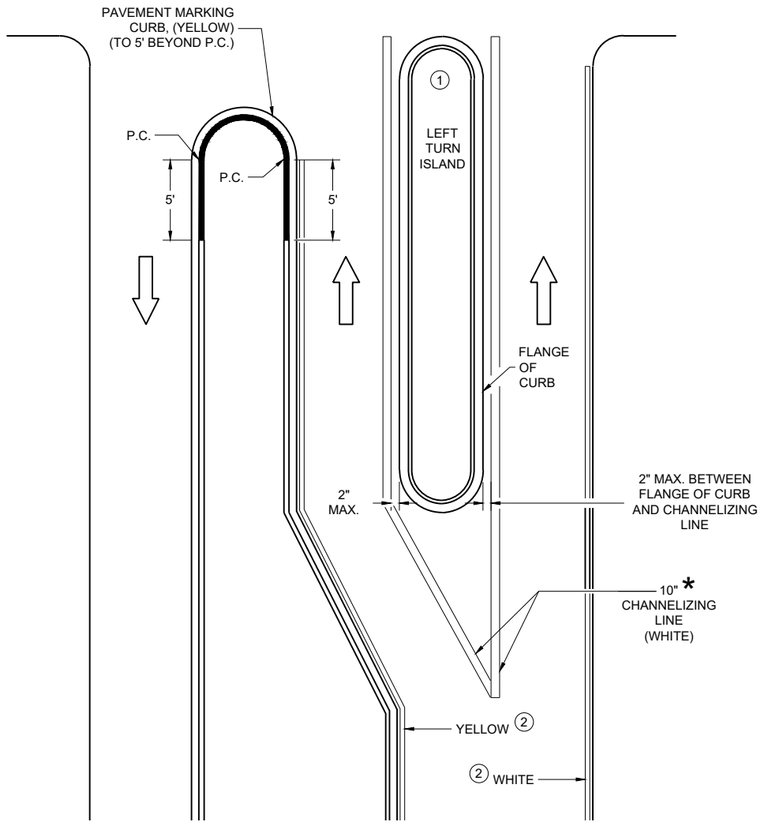
(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

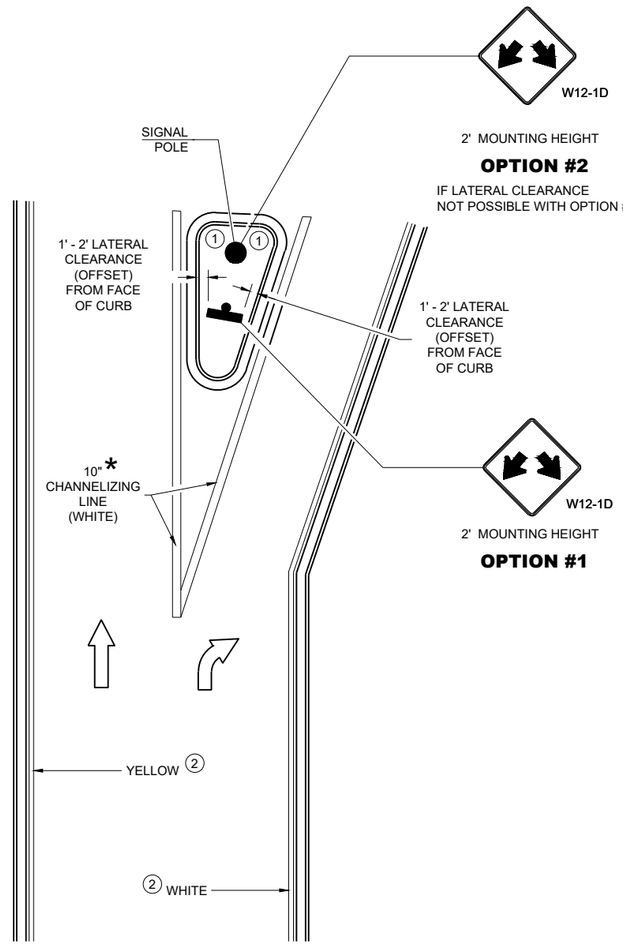
(3) CHEVRON MAY BE OMITTED IF LESS THAN 4" WIDE

DIRECTION OF TRAVEL

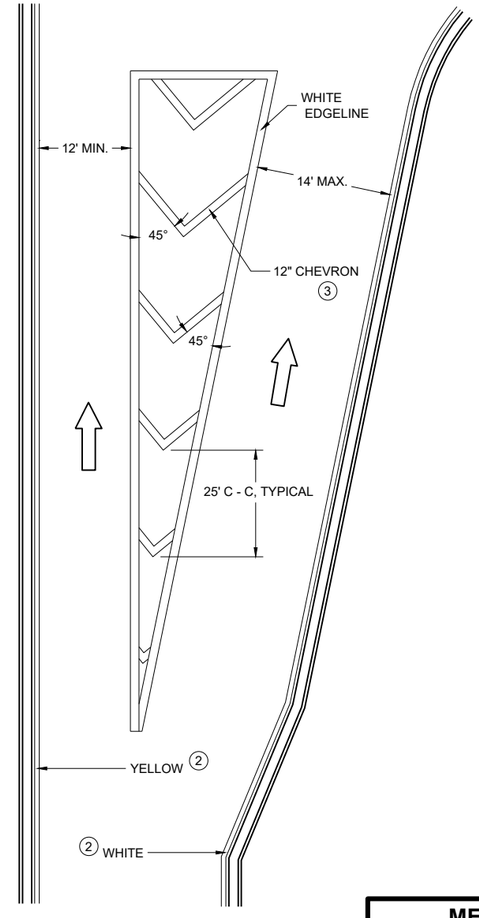
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



TURN LANE DETAIL

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

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6

SDD 15C18-09c

6

SDD 15C18-09c

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

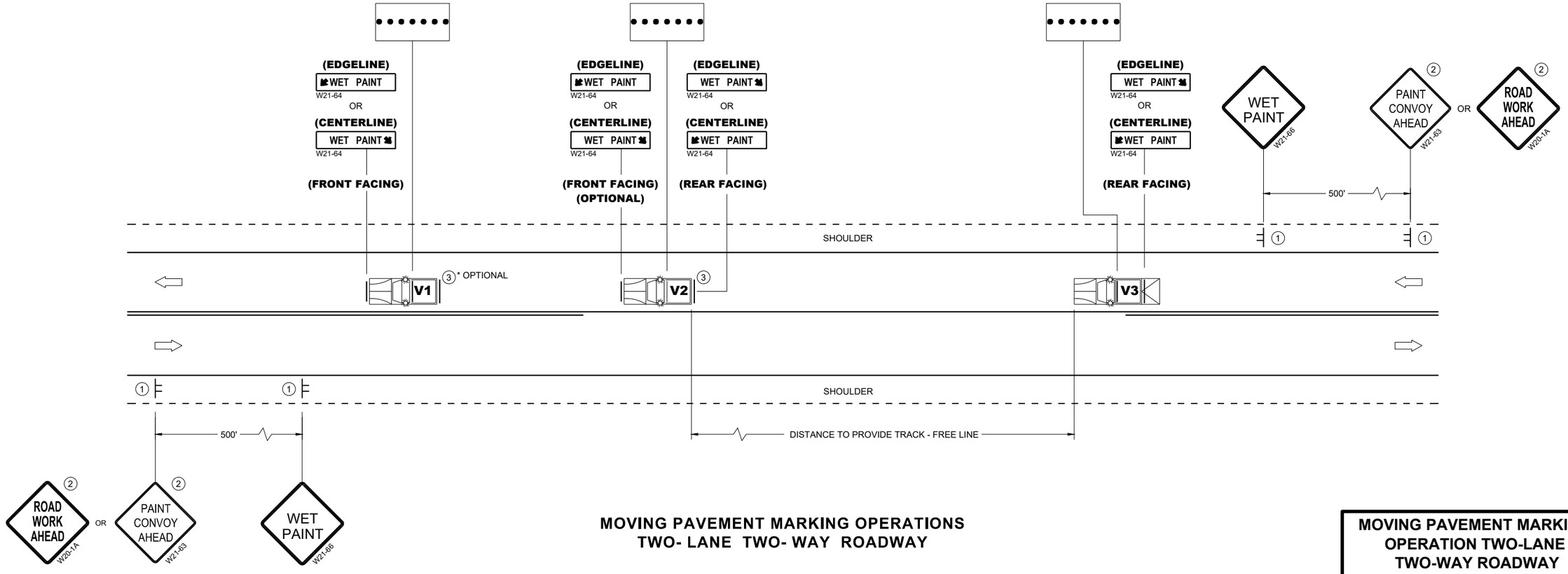
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

(3) V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS
TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEBRUARY 2025 — DATE
/S/ Andrew Heidtke — STATE ELECTRICAL ENGINEER

FHWA

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SDD 15C19-10a

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

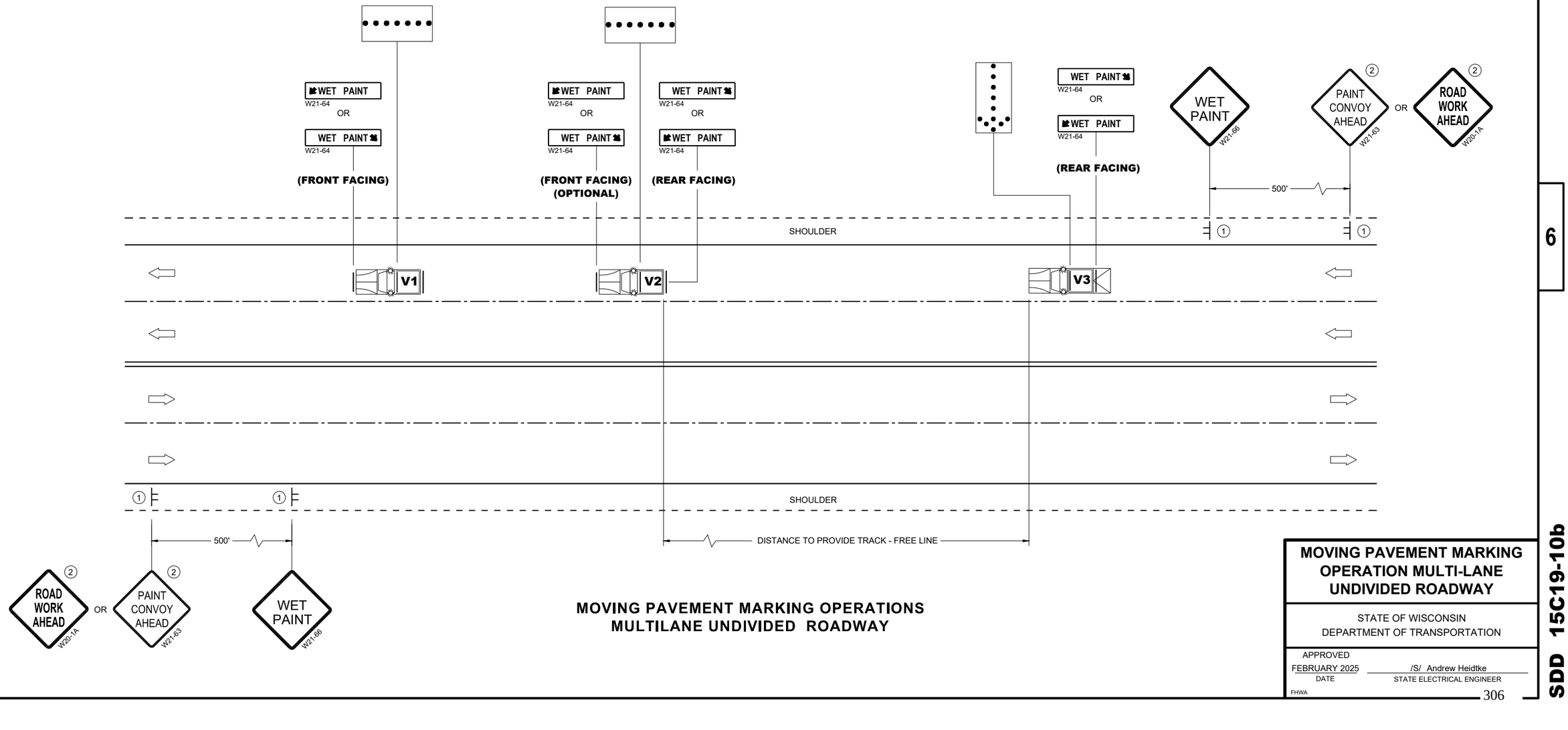
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEBRUARY 2025 — DATE
/S/ Andrew Heidtke — STATE ELECTRICAL ENGINEER

FHWA

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SDD 15C19-10b

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SDD 15C19-10b

LEGEND

V1 MARKING VEHICLE

V2 SHADOW VEHICLE

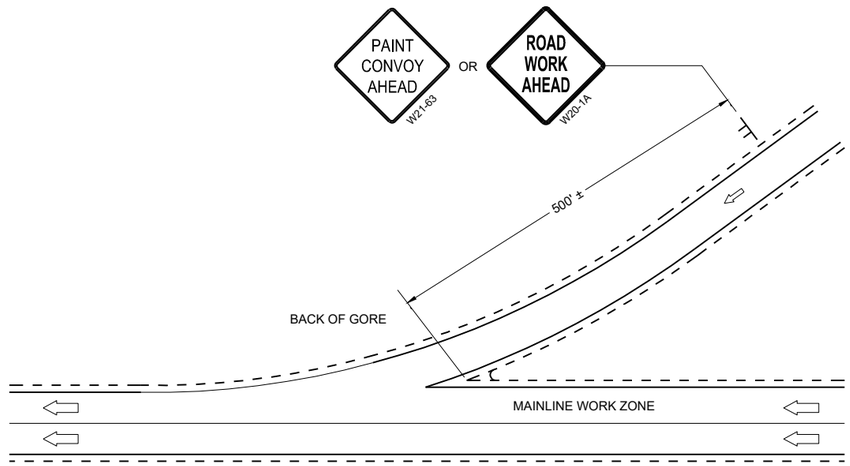
V3 TRAIL VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

ARROW PANEL (CAUTION)



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

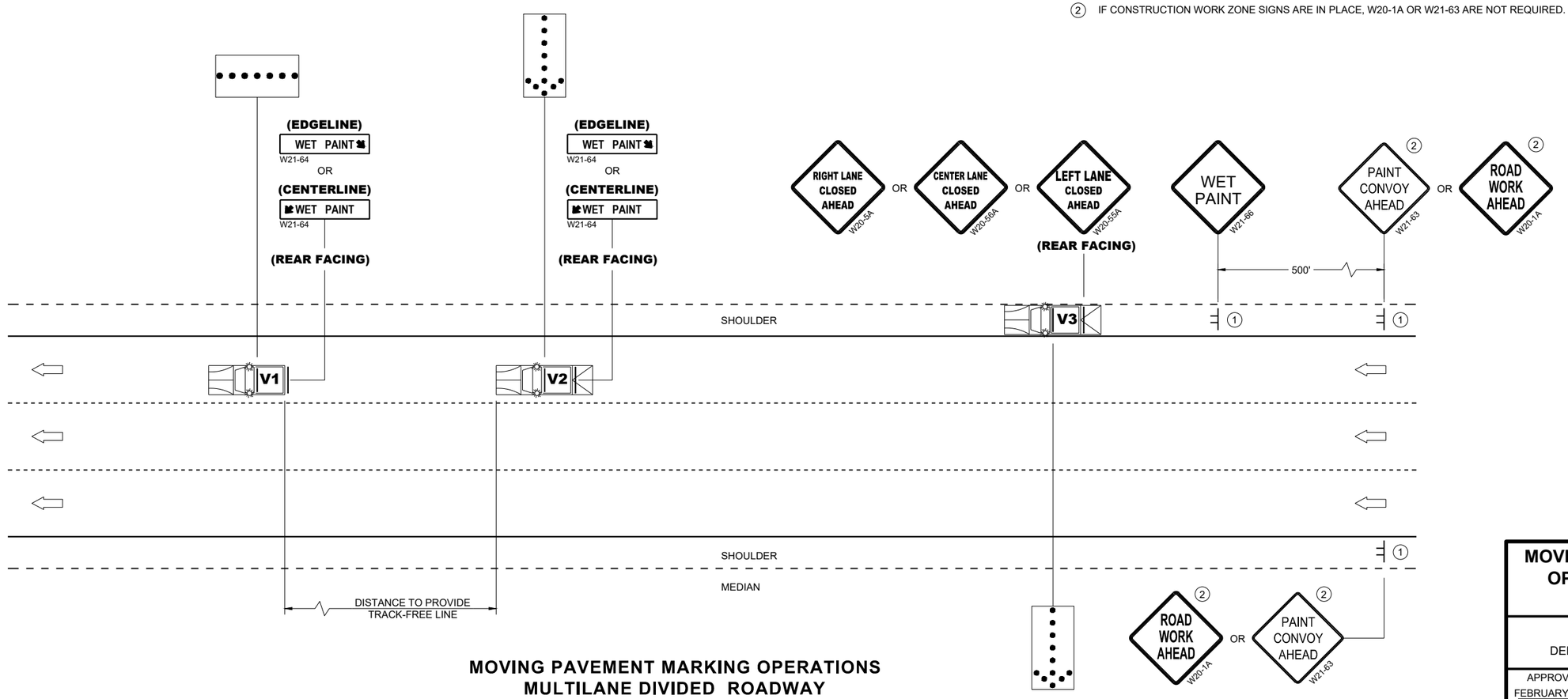
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEBRUARY 2025
DATE

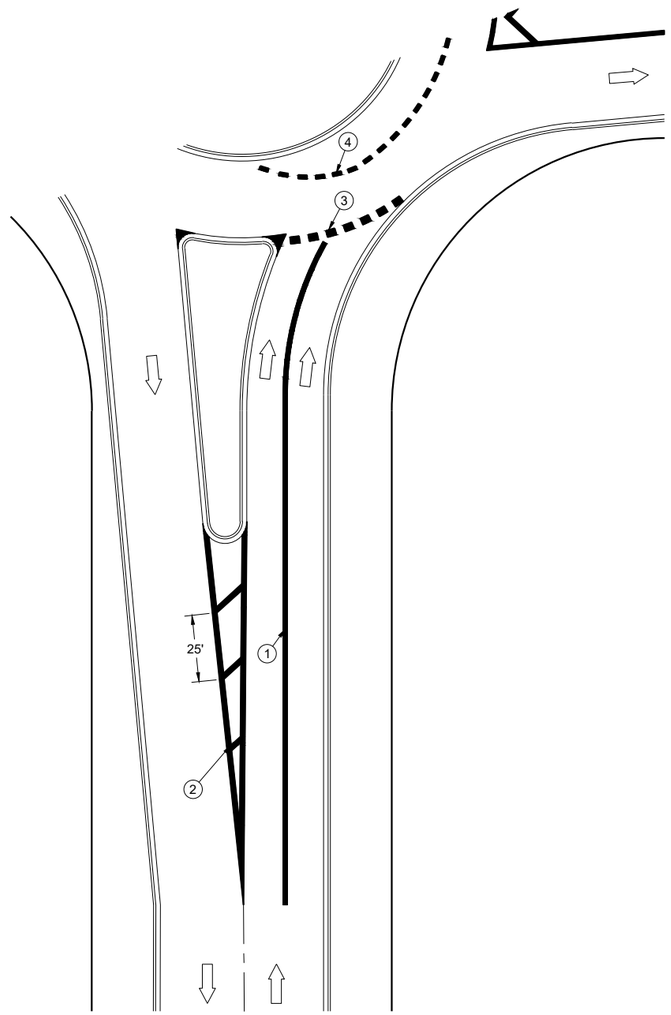
/S/ Andrew Heidtke
STATE ELECTRICAL ENGINEER

FHWA

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SDD 15C19-10c

LEGEND

- (1) 10" WHITE
- (2) 12" DIAGONALS AT 25' SPACING. (CAN BE OMITTED IF LESS THAN 6')
- (3) 18" WHITE, 2' LINE, 2' GAP
- (4) 6" LINE (6 FT LINE, 3'GAP)
- DIRECTION OF TRAFFIC
- CURB AND GUTTER
- RIGHT OF WAY



6

SDD 15C22-01

DOTTED EXTENSION FOR ROUNDABOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Matthew Rauch
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

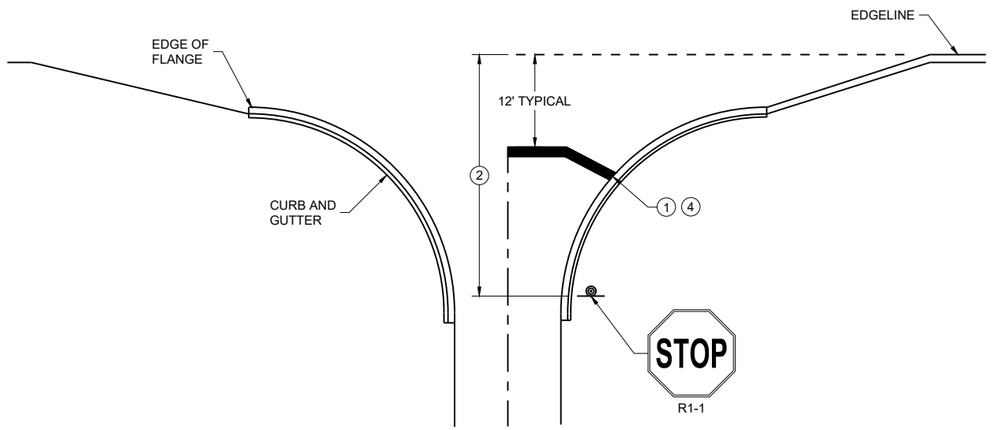
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SDD 15C22-01

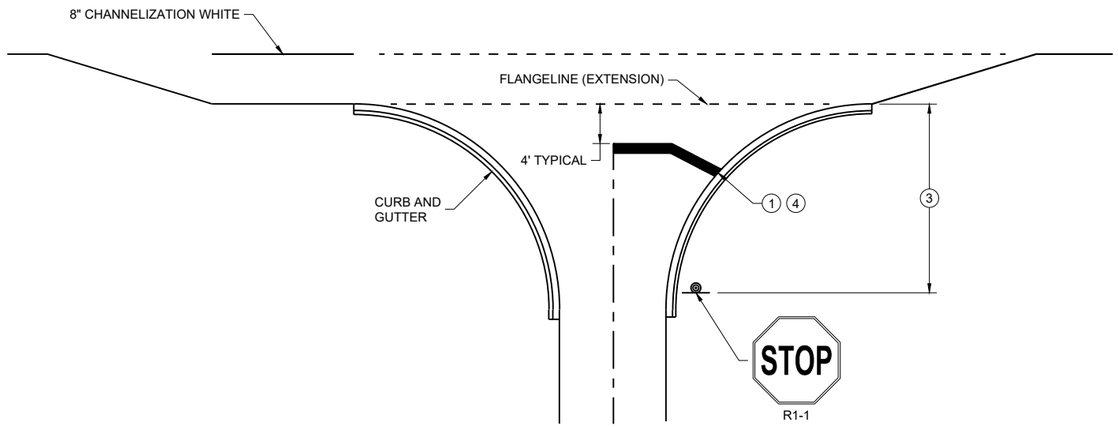
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

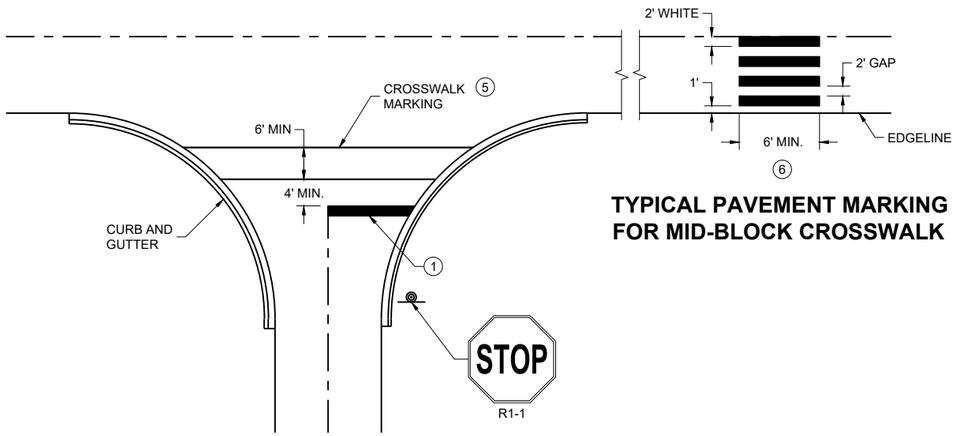
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

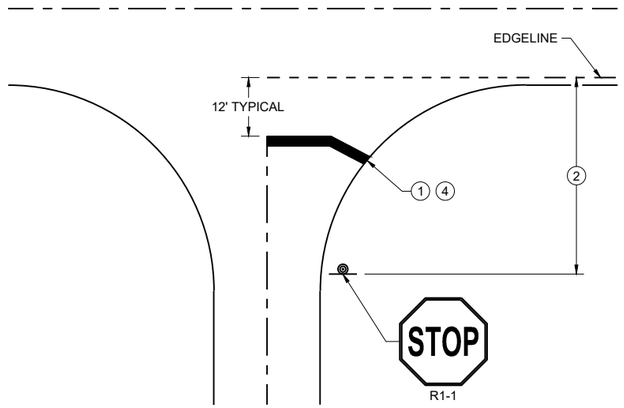


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK (5)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

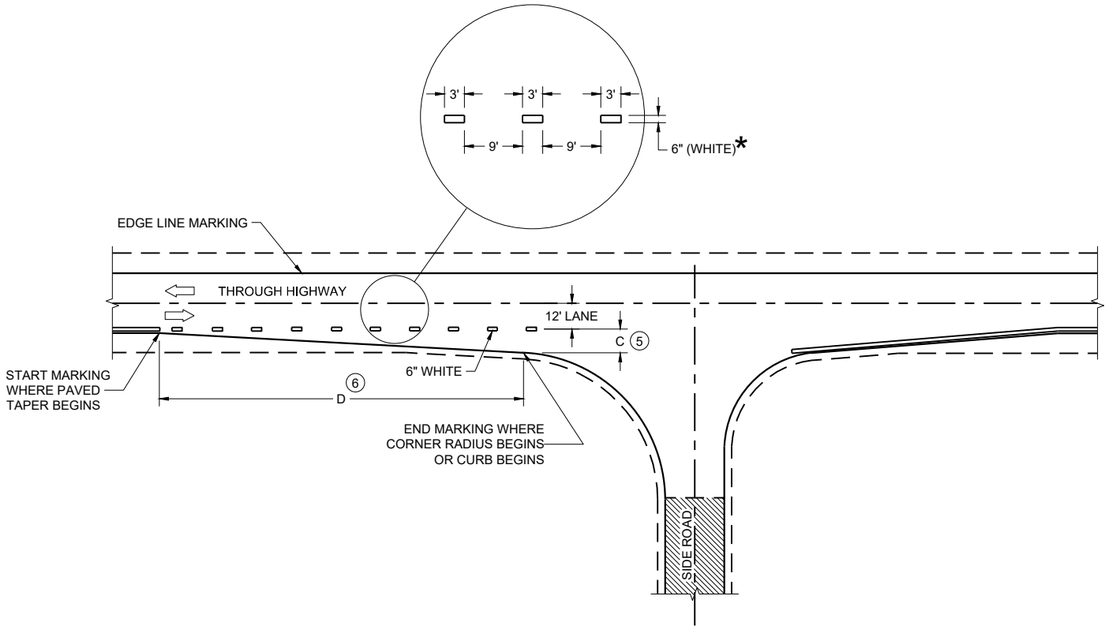
FHWA

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SDD 15C33-05

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SDD 15C33-05



MINOR INTERSECTION

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

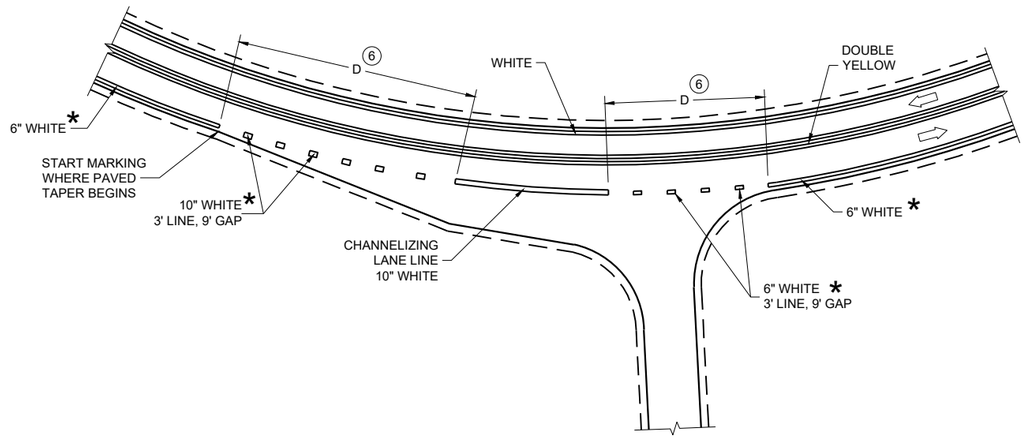
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

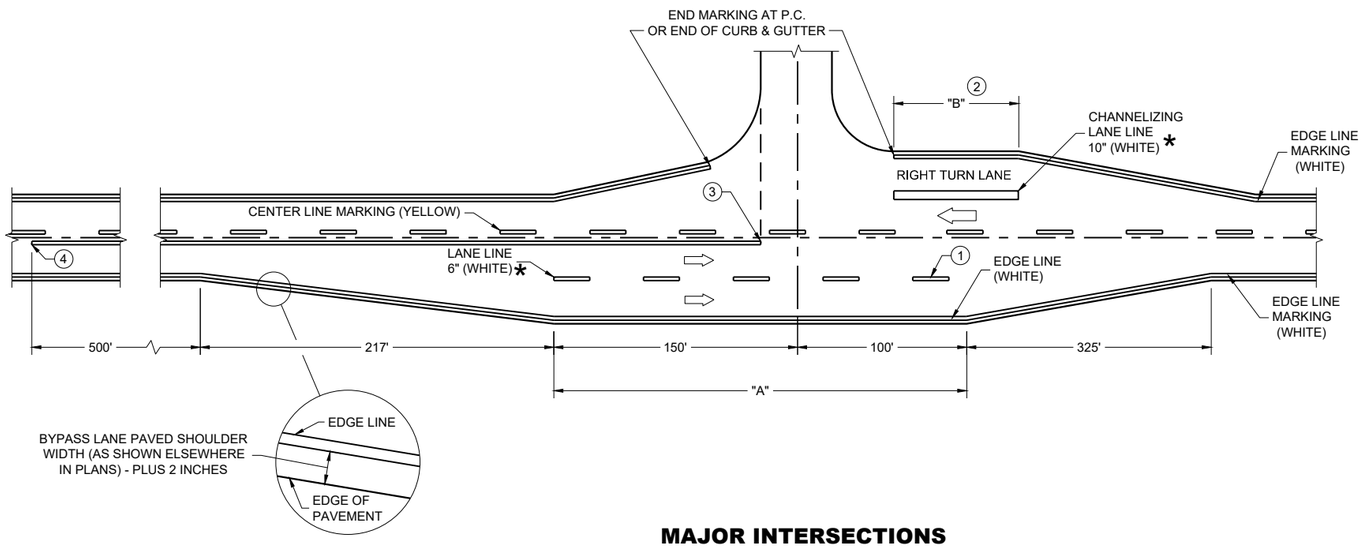
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

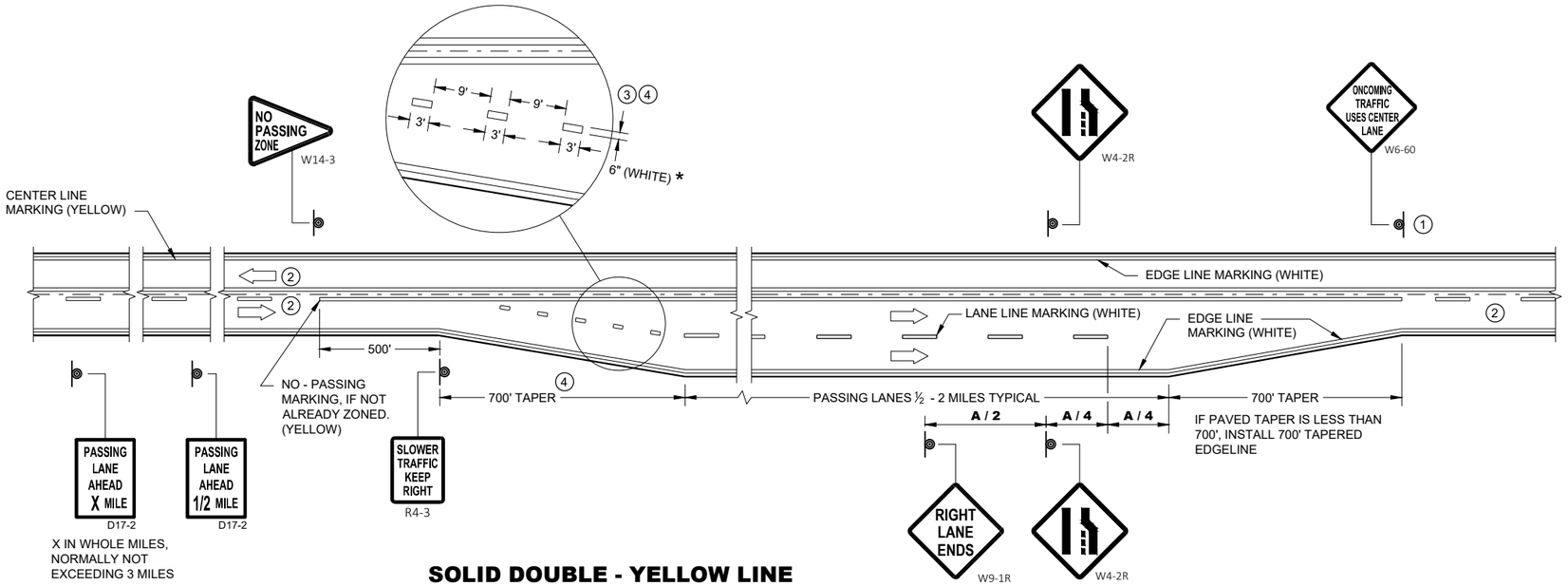


MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



SOLID DOUBLE - YELLOW LINE
(THROUGHOUT ENTIRE PASSING / CLIMBING LANE)

GENERAL NOTES

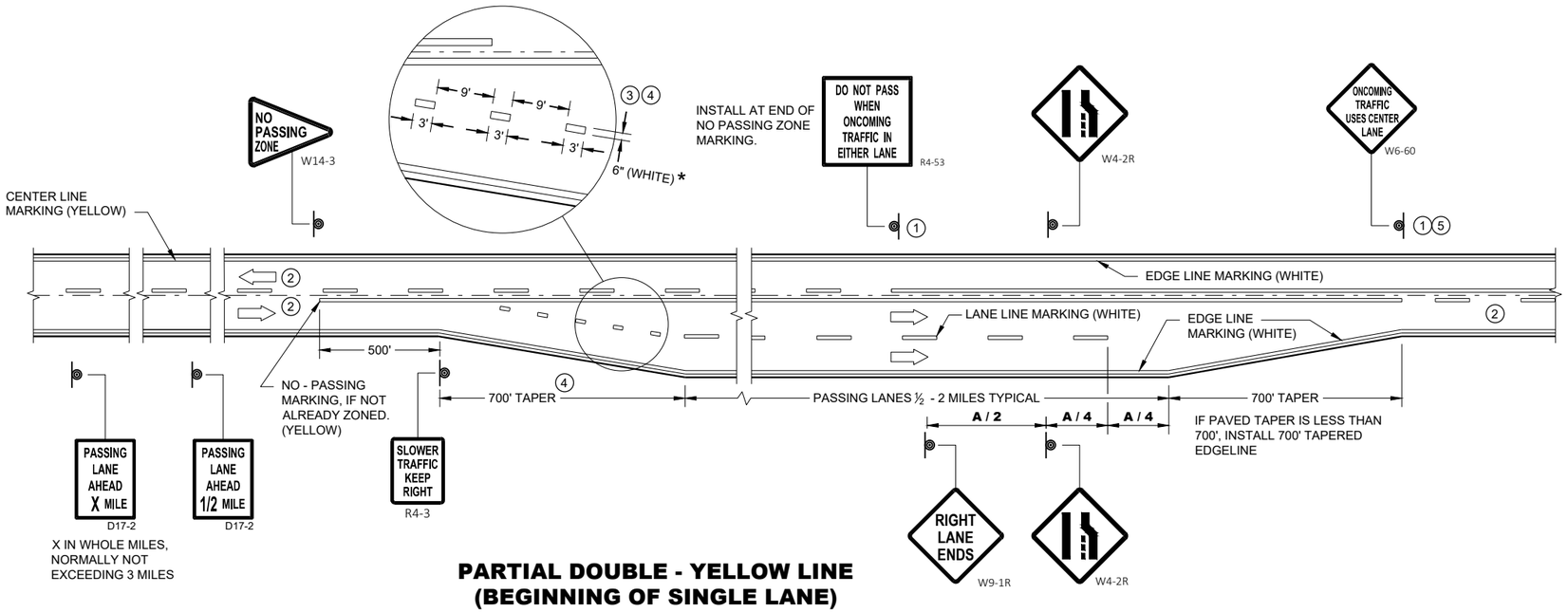
1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
5. REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

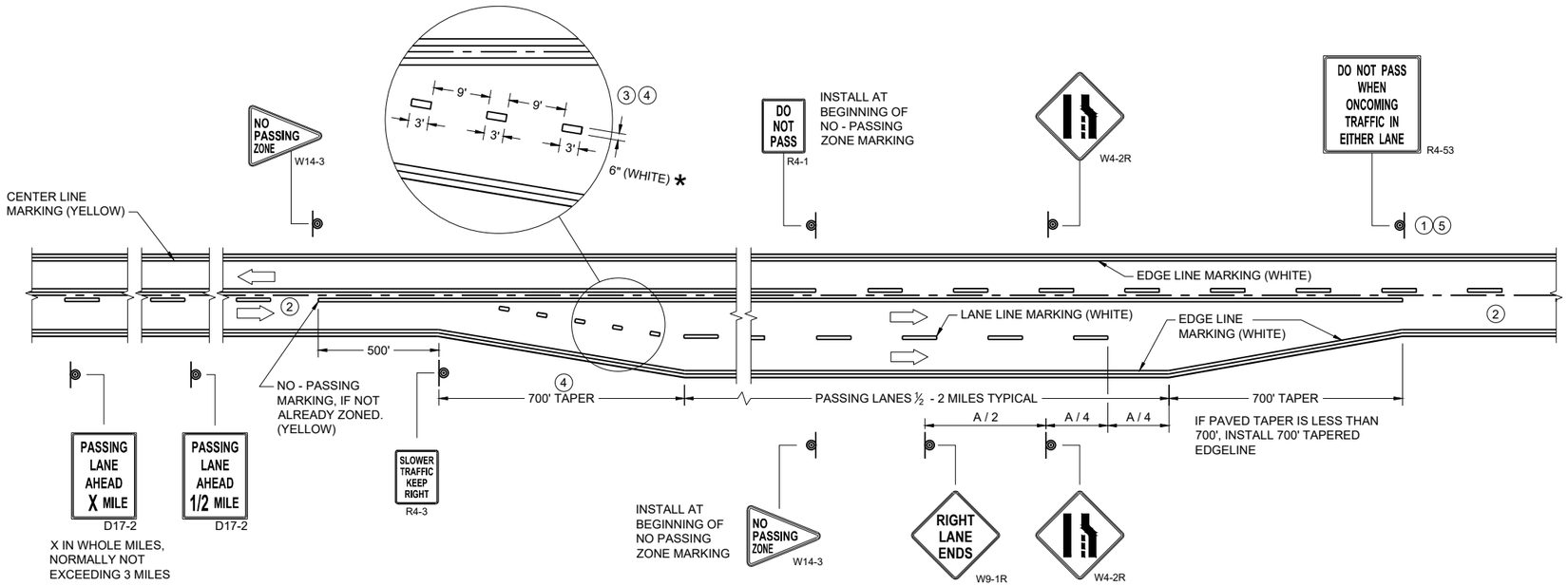
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PARTIAL DOUBLE - YELLOW LINE
(BEGINNING OF SINGLE LANE)

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

6
SDD 15C35-06b



SOLID DOUBLE - YELLOW LINE
(END OF SINGLE LANE)

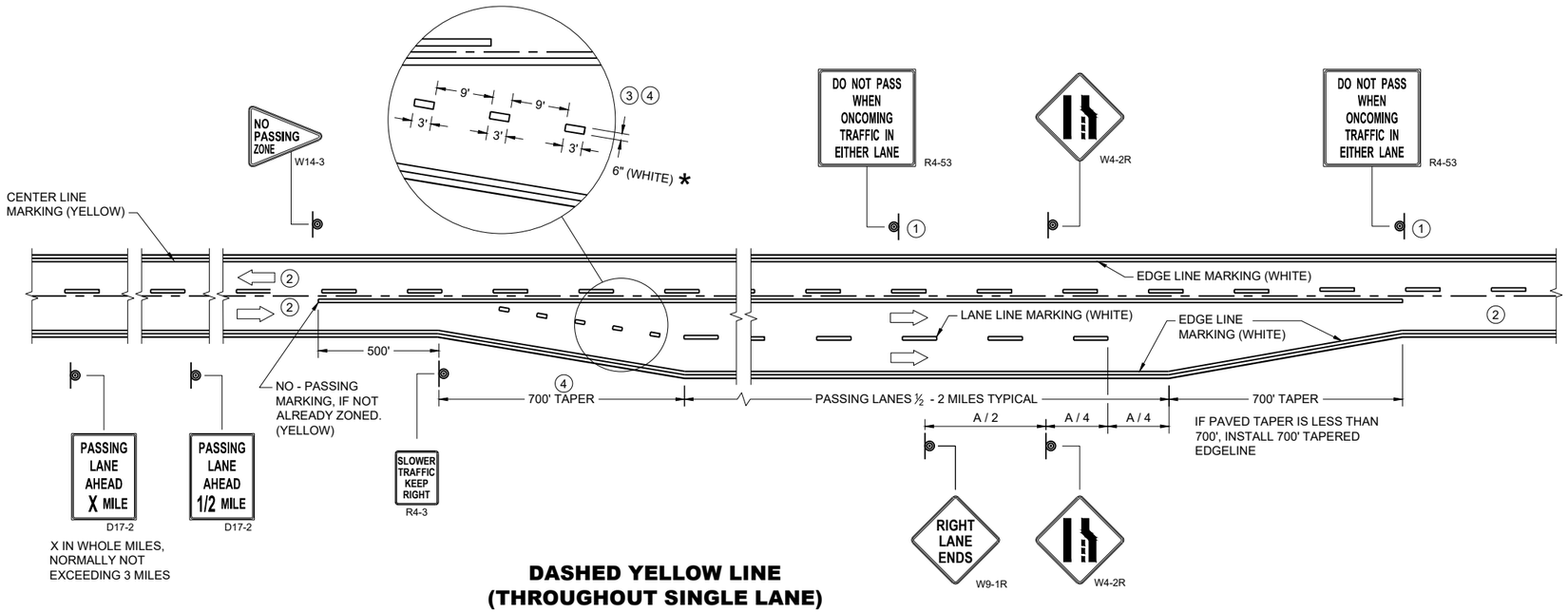
GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
5. REPEAT EVERY ONE MILE UP UNTIL NO PASSING ZONE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990



DASHED YELLOW LINE
(THROUGHOUT SINGLE LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer

FHWA

6

SDD 15C35-06c

6

SDD 15C35-06c

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

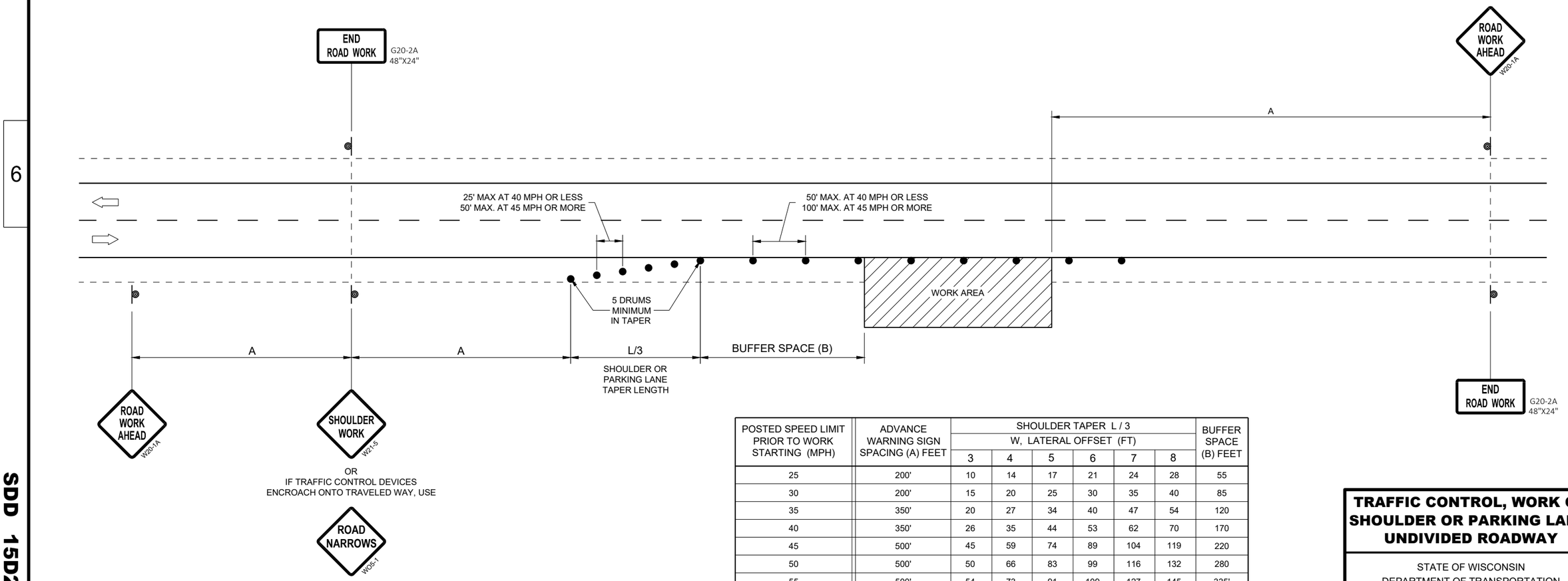
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

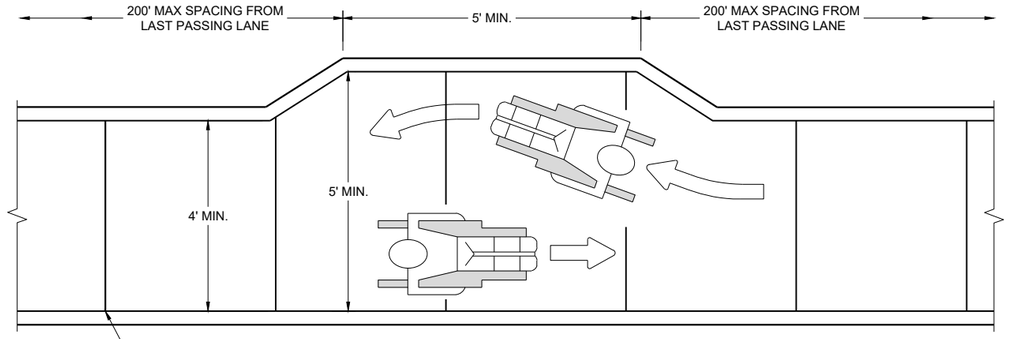
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

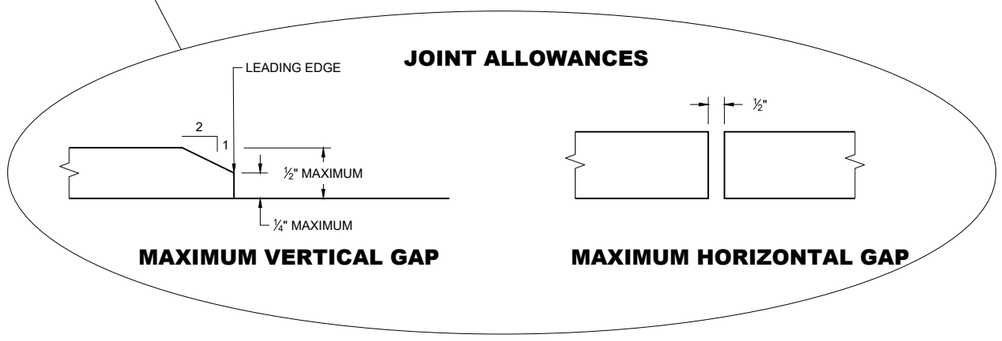
FHWA

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SDD 15D28 - 04



NARROW SIDEWALK PASSING DETAIL



MAXIMUM VERTICAL GAP

MAXIMUM HORIZONTAL GAP

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

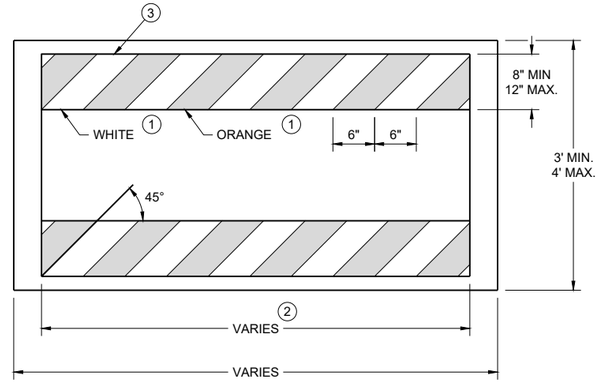
(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

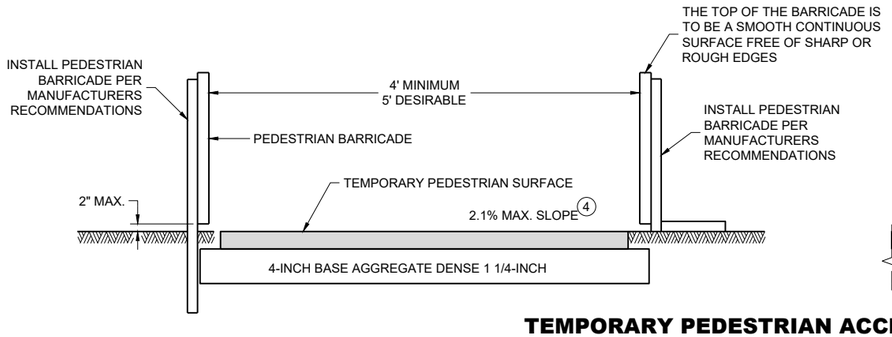
(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

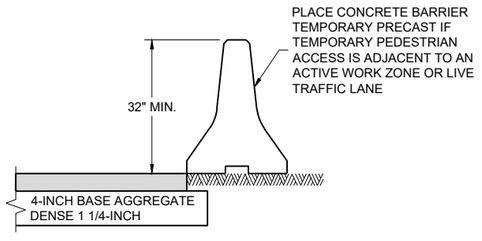
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

(4) WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.



TEMPORARY PEDESTRIAN BARRICADE *



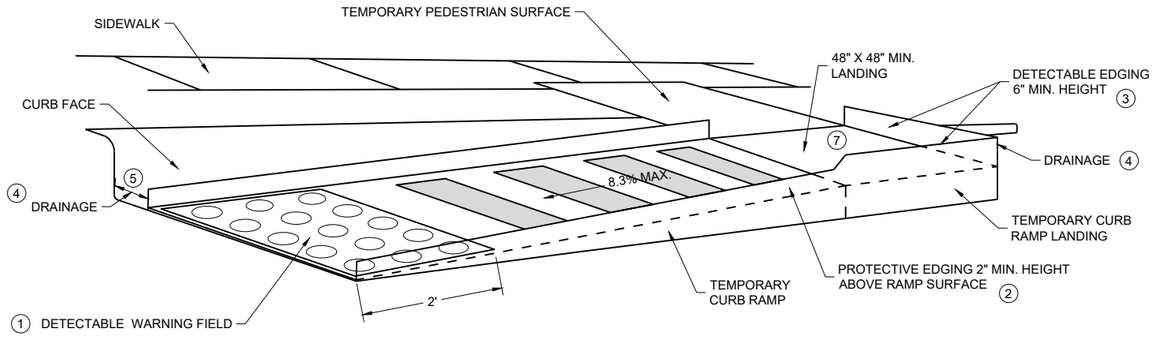


TEMPORARY PEDESTRIAN ACCESS

6
SDD 15D30-11a

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PERSPECTIVE VIEW

GENERAL NOTES

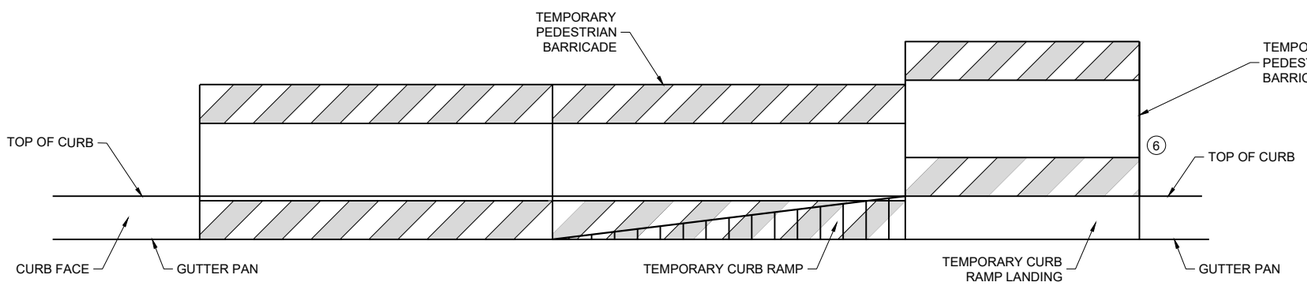
CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:48 (2.1%) MAX. CROSS-SLOPE.

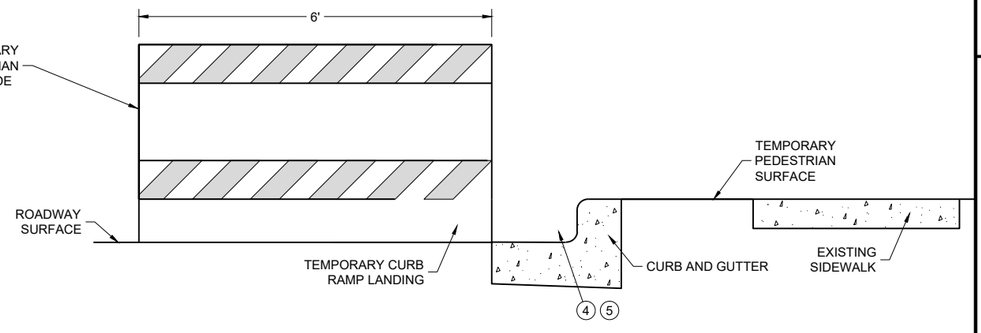
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

1. INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
5. ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
6. IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.
7. LANDING TO BE SLOPED A MAXIMUM OF 2.1% IN ALL DIRECTIONS OF PEDESTRIAN TRAVEL.



FRONT VIEW



SIDE VIEW

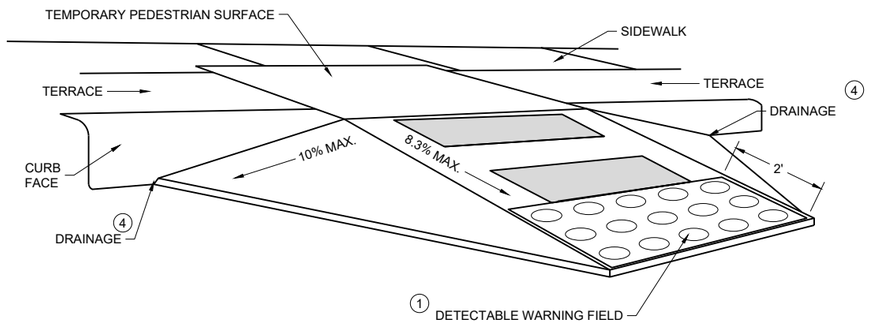
TEMPORARY CURB RAMP PARALLEL TO CURB

6

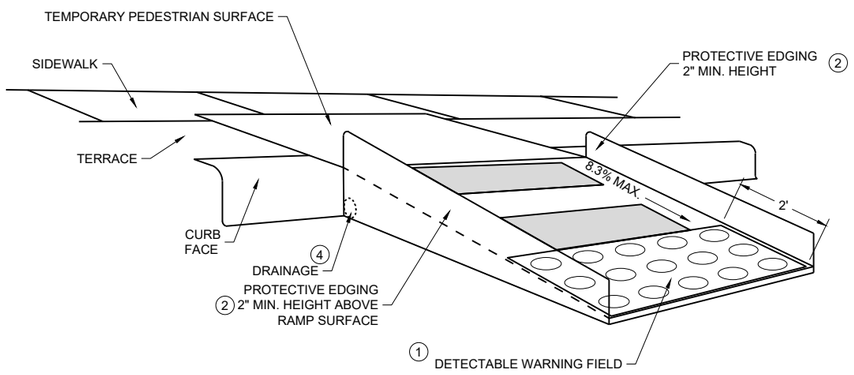
SDD 15D30-11b

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:48 (2.1%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

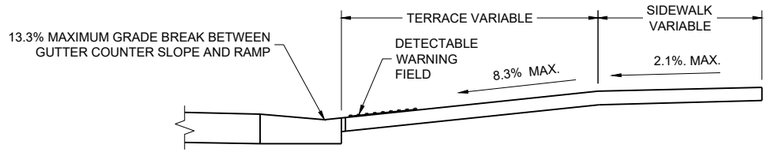
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

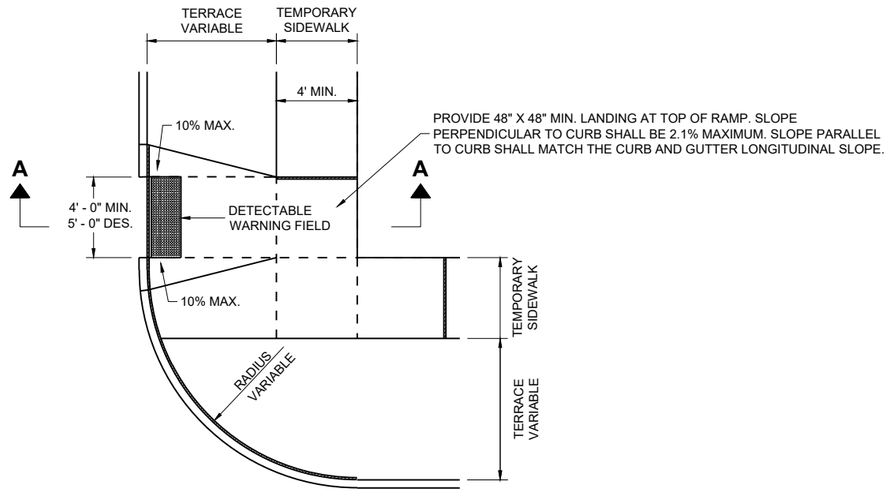
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

GENERAL NOTES



SECTION A - A



PLAN VIEW
TEMPORARY TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

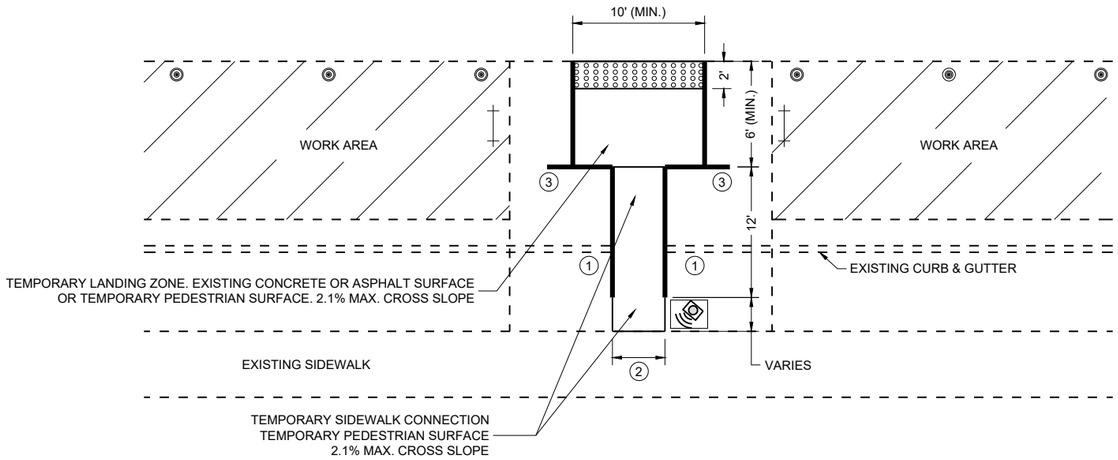
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

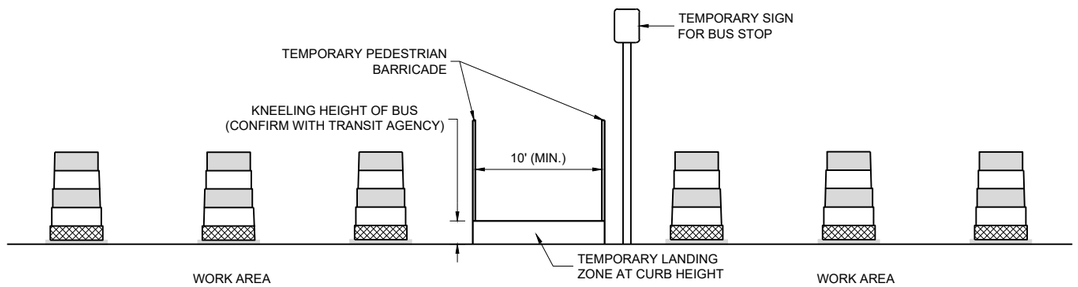
FHWA

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SDD 15D30-11d



PLAN VIEW



PROFILE VIEW TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:48 (2.1%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

6

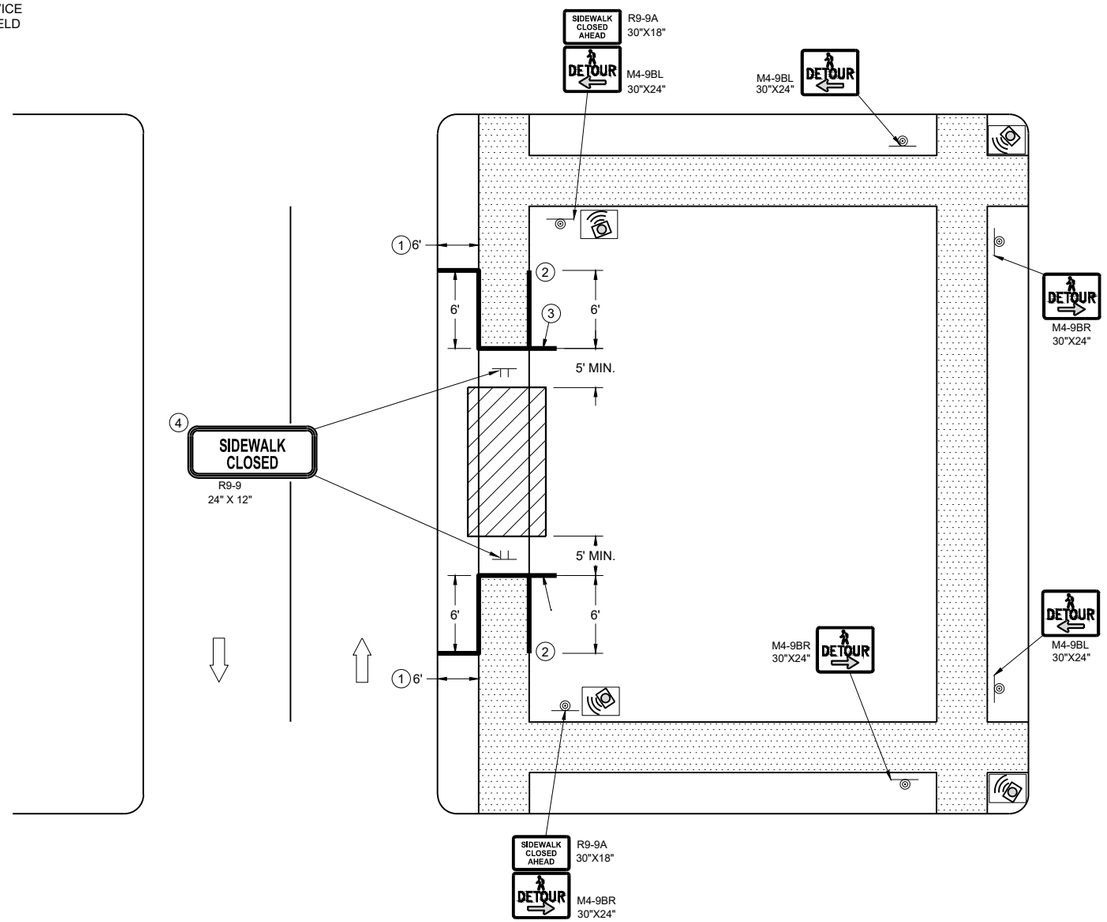
SDD 15D30-11e

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-11f

LEGEND

SIGN ON TEMPORARY SUPPORT

WORK AREA

UNDER PEDESTRIAN TRAFFIC

TEMPORARY PEDESTRIAN SURFACE

TEMPORARY PEDESTRIAN BARRICADE

OPTIONAL TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

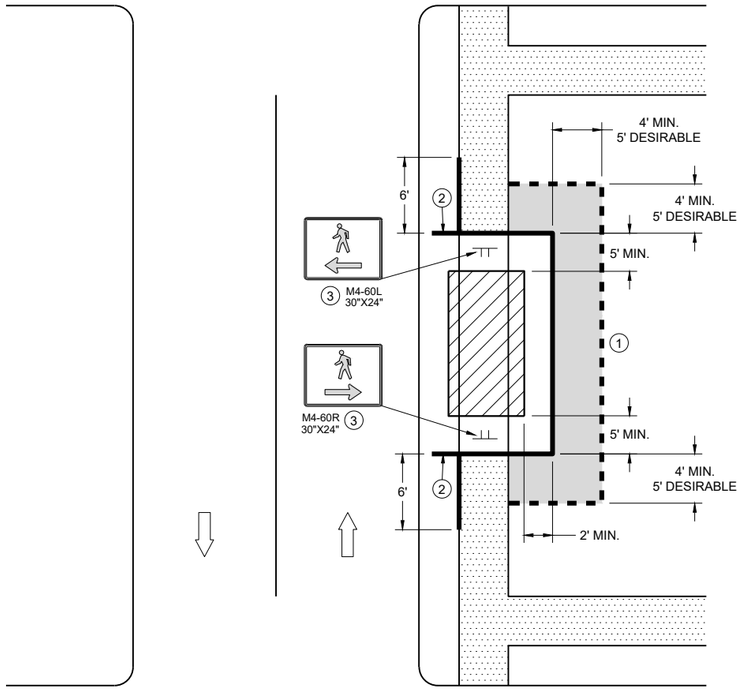
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

(1) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(2) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK BYPASS
SINGLE SIDE

6

SDD 15D30-11g

6

SDD 15D30-11g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

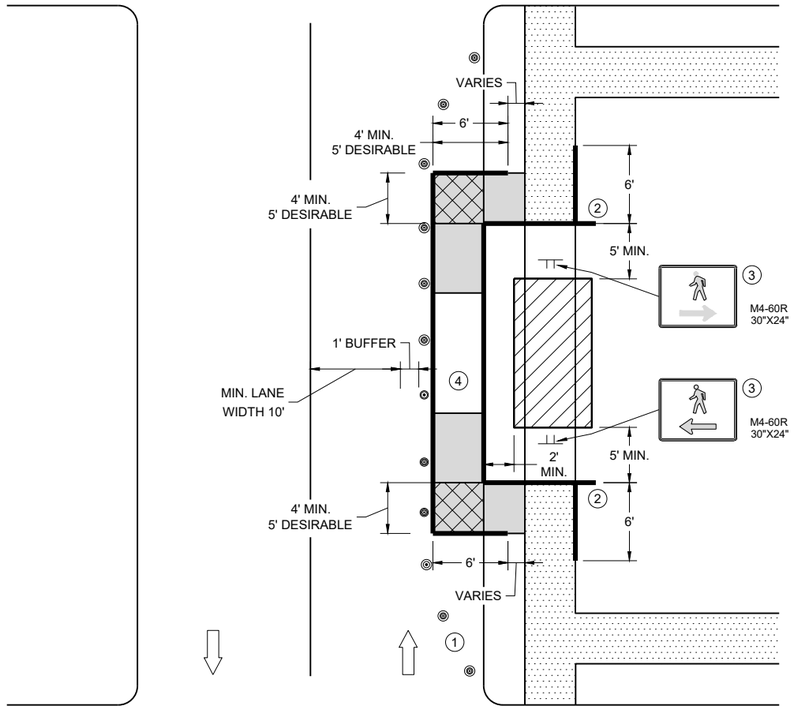
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.

(2) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

(4) USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURFACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE. WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.



SIDEWALK BYPASS, SINGLE SIDE

6

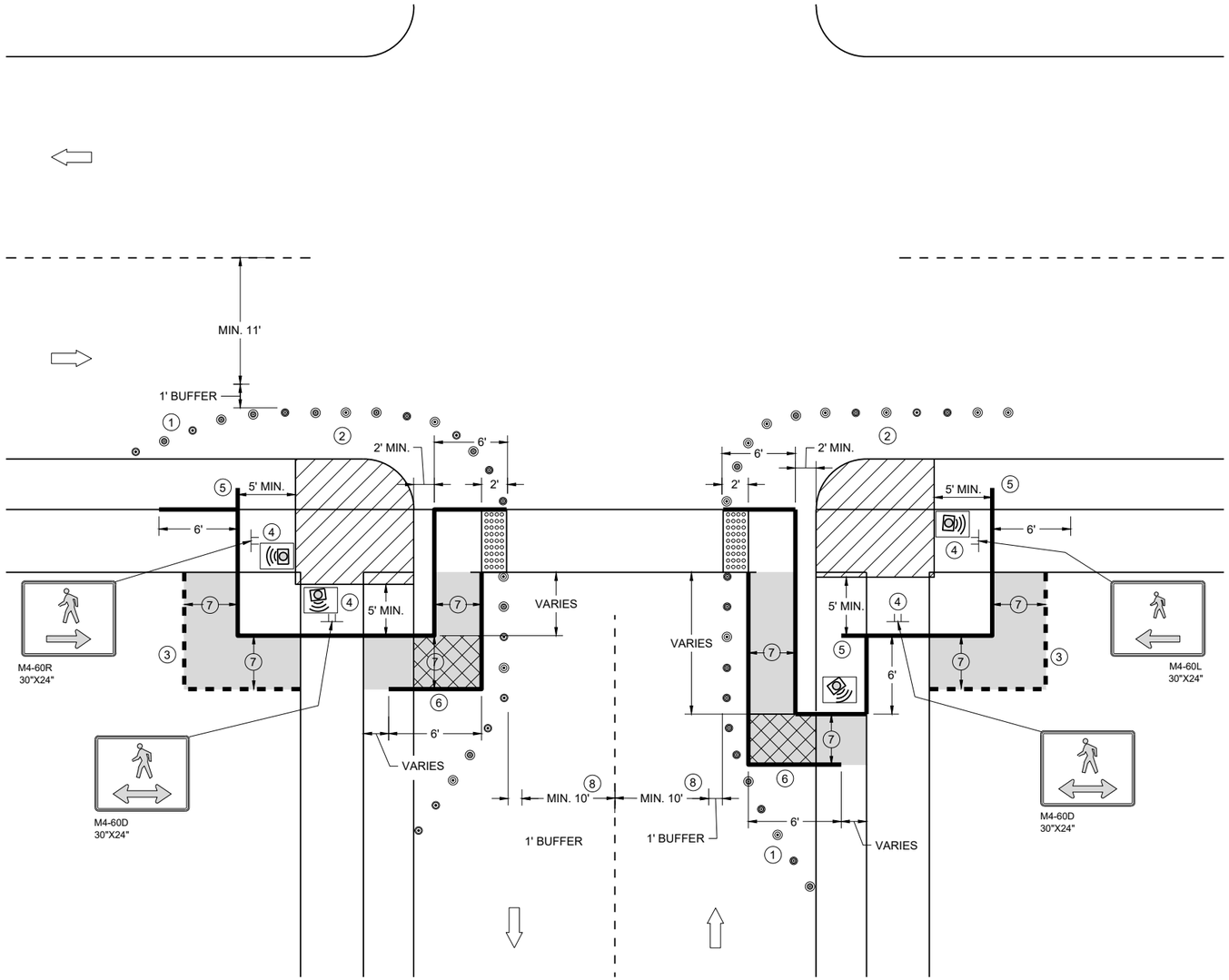
SDD 15D30-11h

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SDD 15D30-11h

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

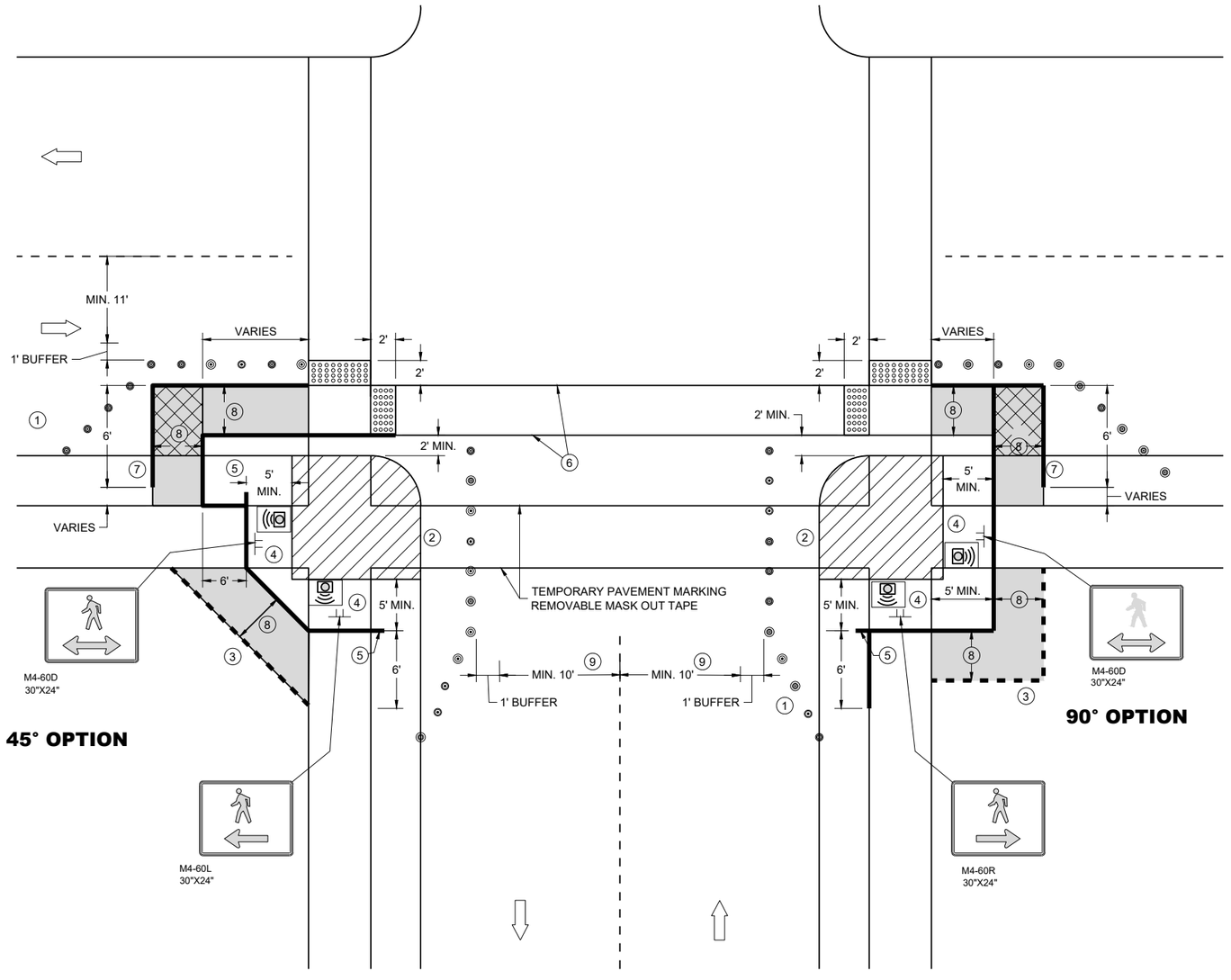
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 15D30-11i



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.

(2) PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS

(3) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(4) MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.

(5) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.

(6) WHITE 6" TEMPORARY PAVEMENT MARKING

(7) IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.

(8) 4 FEET MINIMUM, 5 FEET DESIRABLE

(9) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 15D30-11j

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

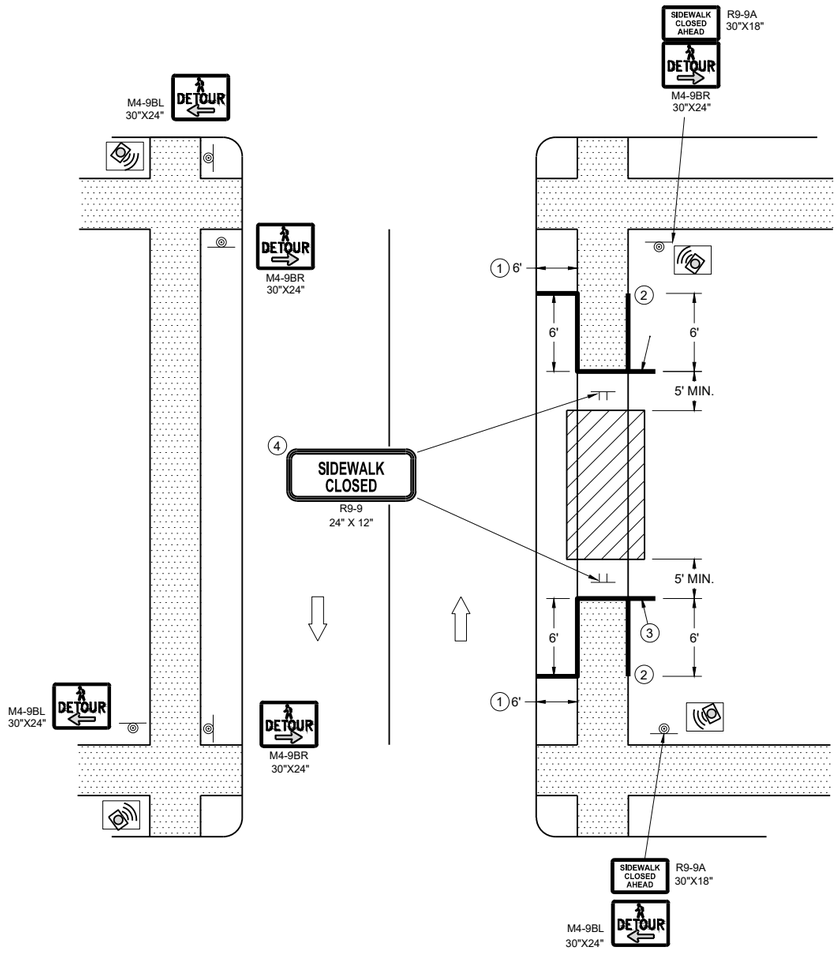
UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC

TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

GENERAL NOTES

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

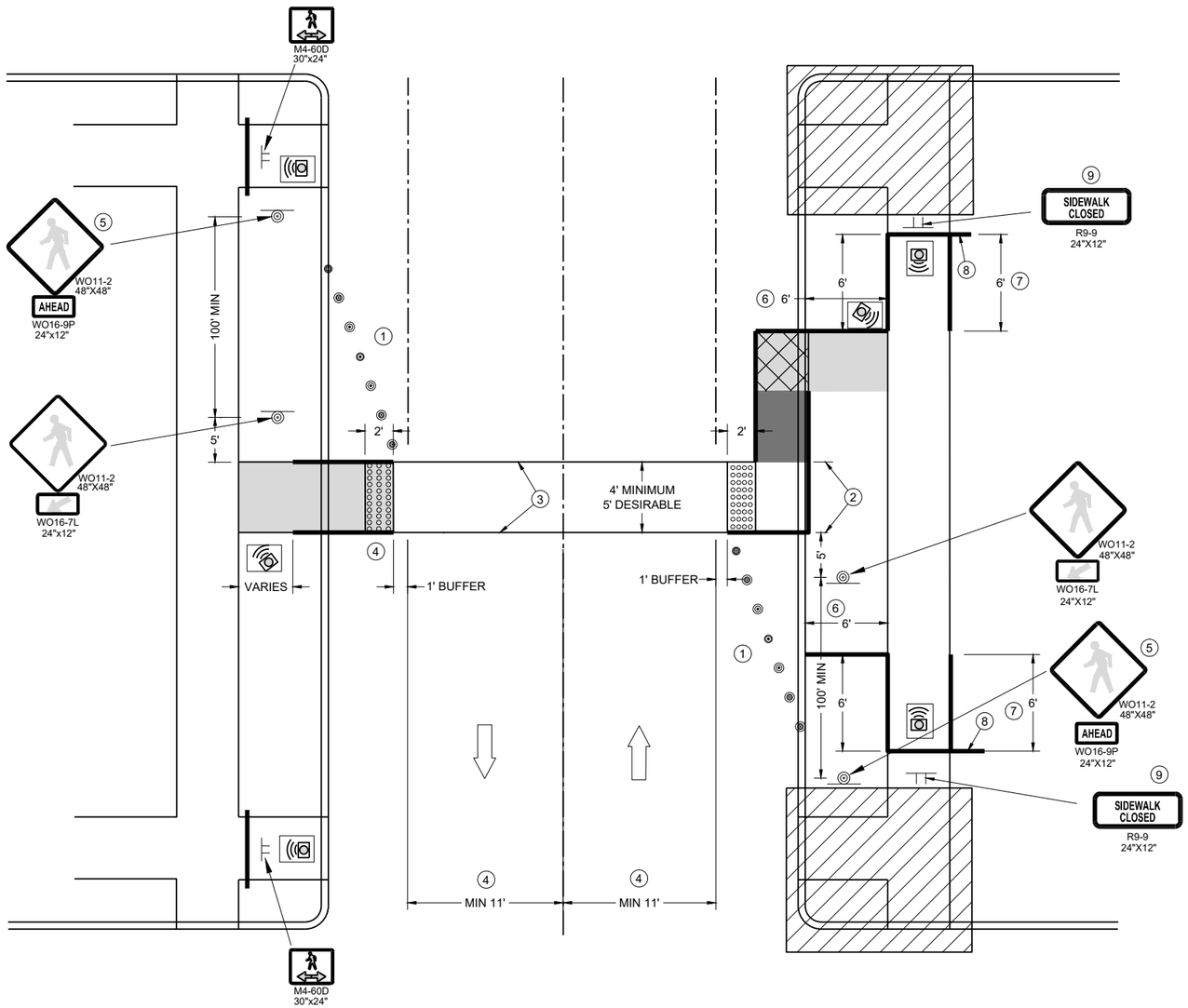
1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15D30-11k



TEMPORARY PEDESTRIAN CROSSING

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

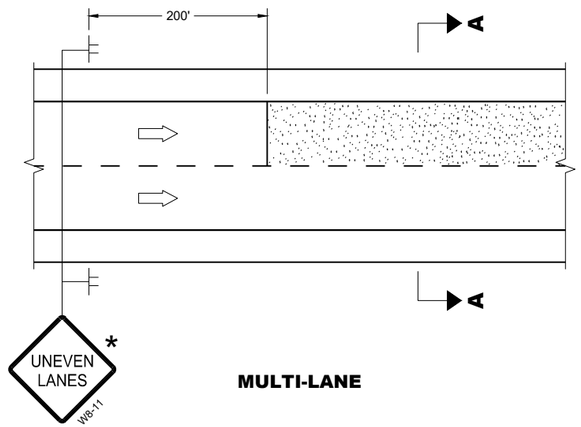
1. SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
2. 4 FEET MINIMUM, 5 FEET DESIRABLE.
3. WHITE 6" TEMPORARY PAVEMENT MARKING.
4. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMPS MAY NEED TO BE UTILIZED.
5. IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
6. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
7. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
8. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
9. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

LEGEND

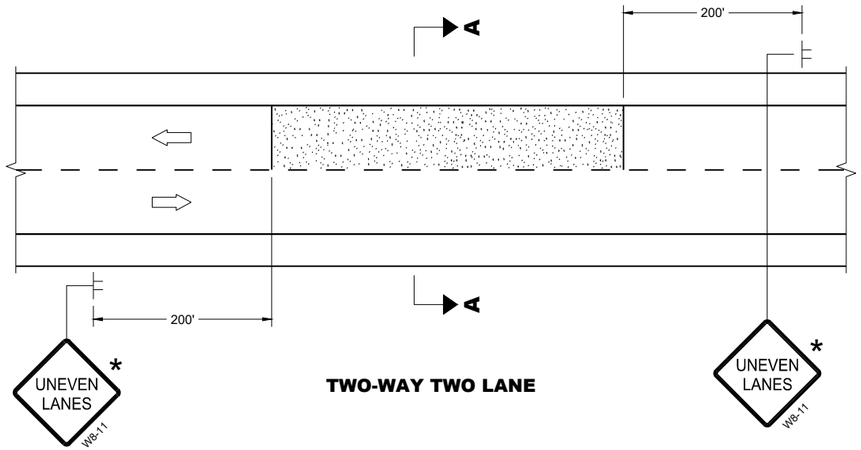
- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY CURB RAMP
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

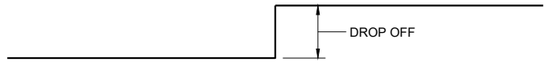
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MULTI-LANE

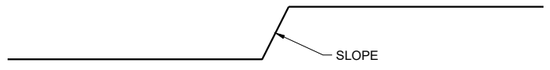


TWO-WAY TWO LANE

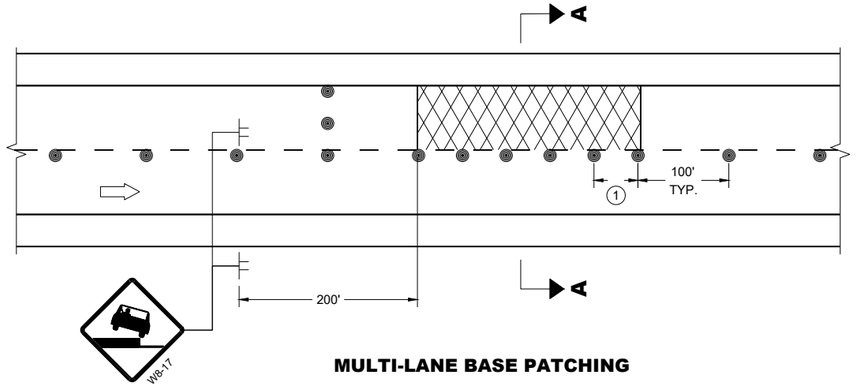


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

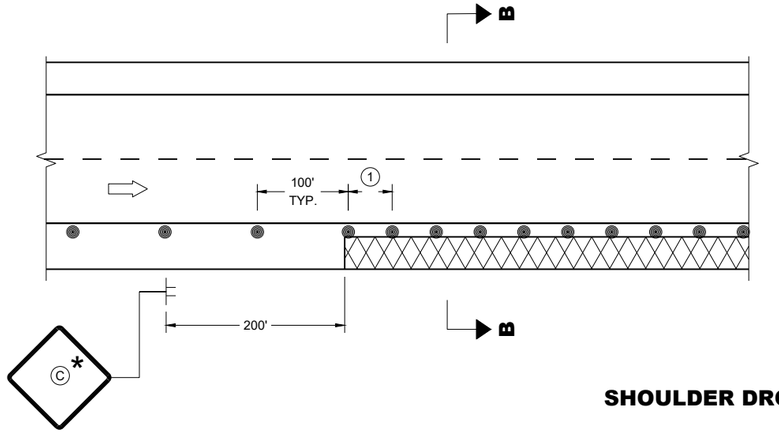
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

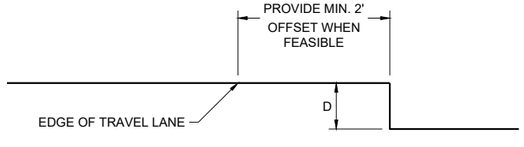
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A
	PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15D39-03

6

SDD 15D39-03

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	155
30	200	75	83	90	98	105	200
35	350	102	112	123	133	143	250
40	350	133	147	160	173	187	305
45	500	225	248	270	293	315	360

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

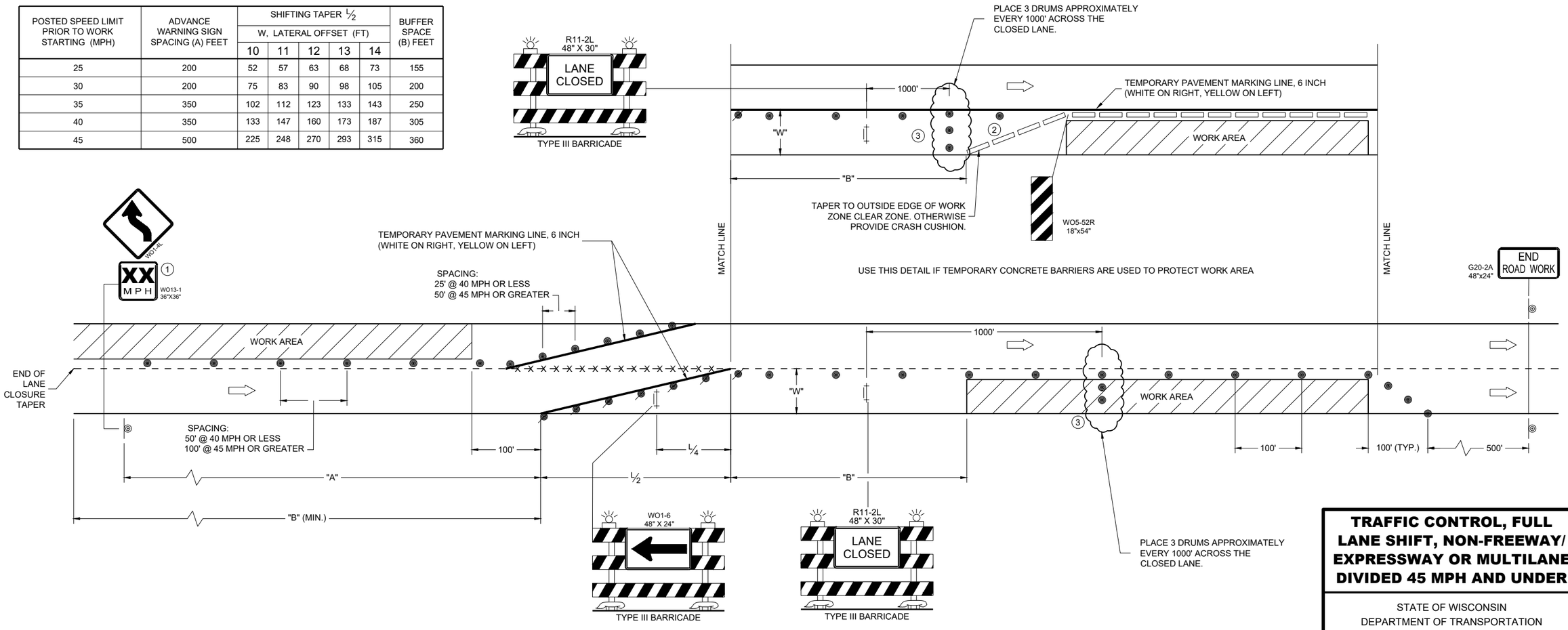
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER

SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL
CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

(3) DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D40-06a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)				
	10	11	12	13	14
50	250	275	300	325	350
55	275	303	330	358	385
60	300	330	360	390	420
65	325	358	390	423	455
70	350	385	420	455	490

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

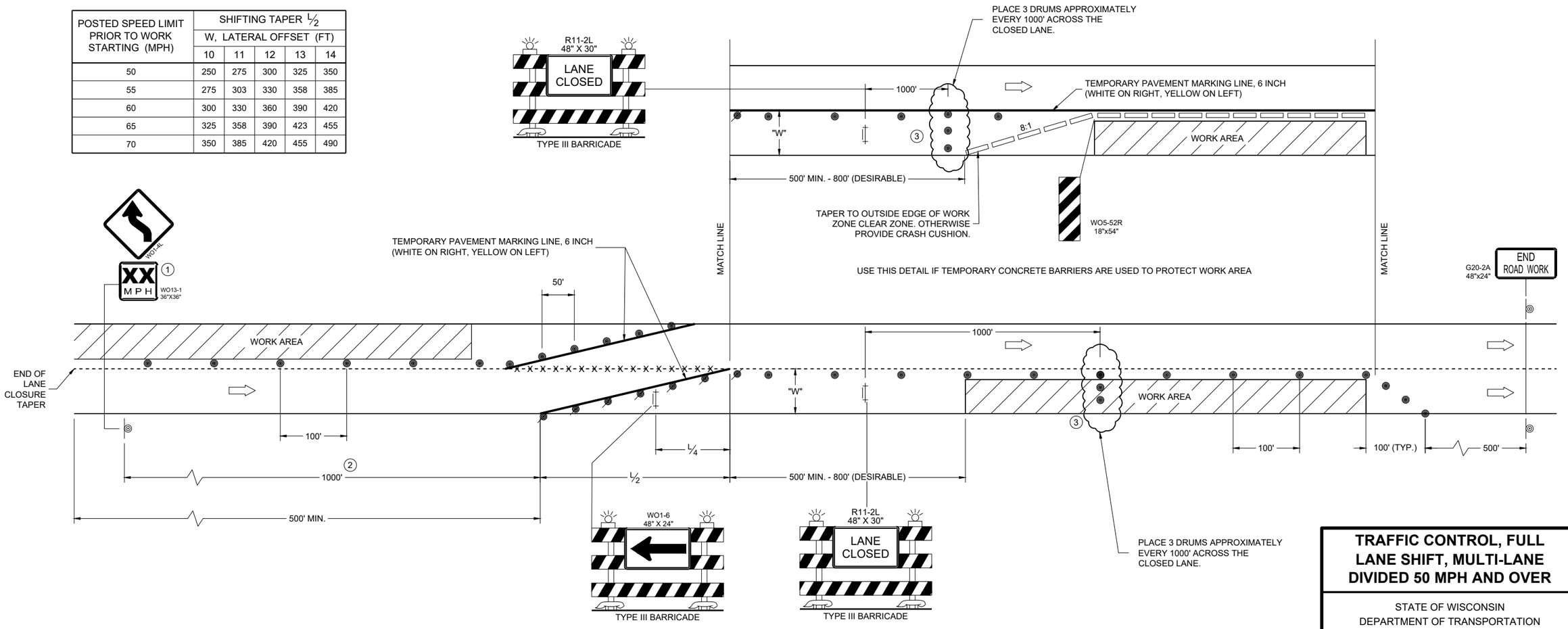
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE THE LENGTH OF ½ THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) IF BEGINNING OF LANE SHIFT IS 1200' OF LESS FROM THE END OF THE LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.

(3) DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15D40-06b

6

SDD 15D40-06b

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

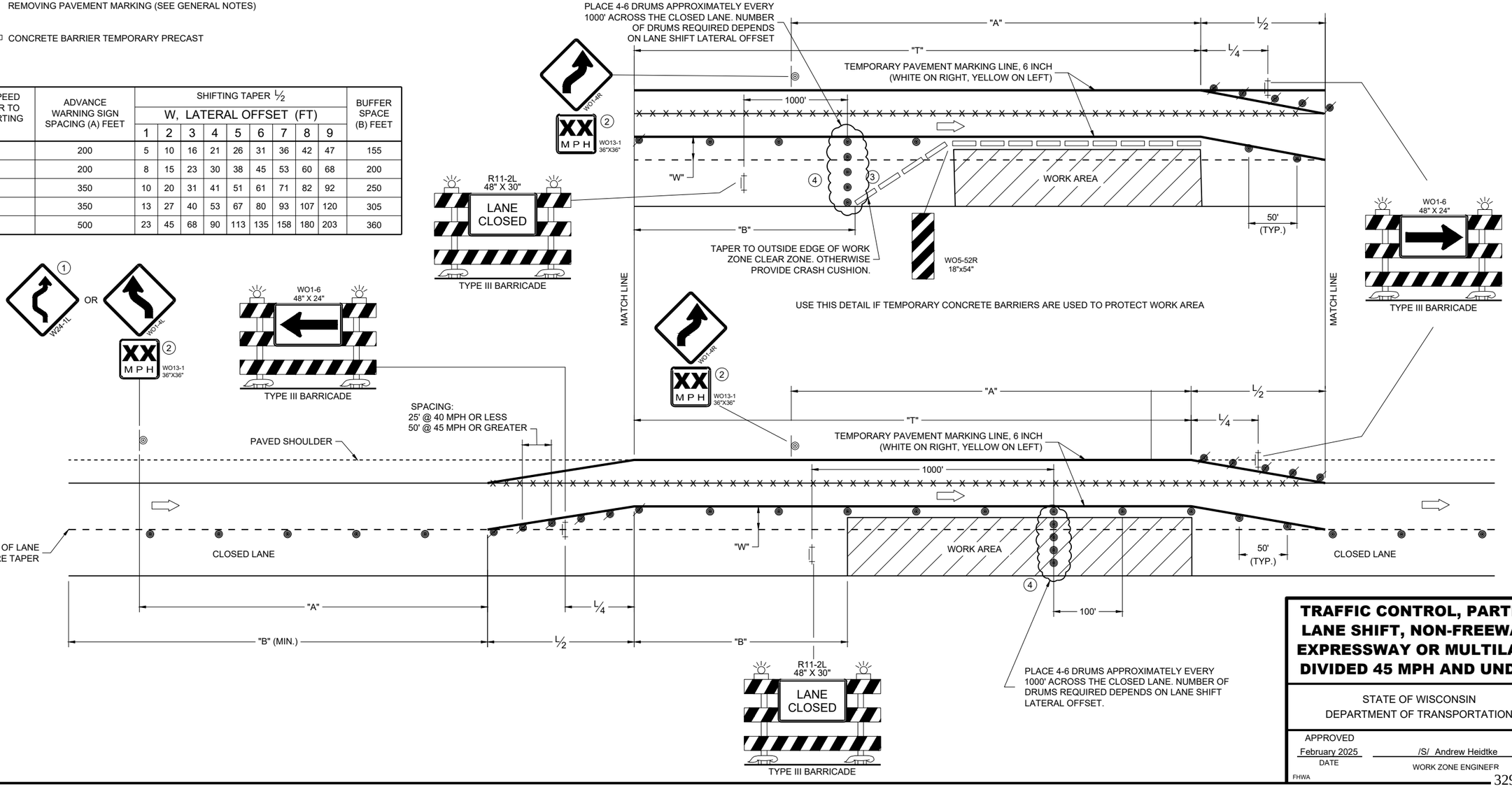
(1) USE ONLY WHEN T<600', OMIT WO1-4R.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(3) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

(4) DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER 1/2 W, LATERAL OFFSET (FT)									BUFFER SPACE (B) FEET
		1	2	3	4	5	6	7	8	9	
25	200	5	10	16	21	26	31	36	42	47	155
30	200	8	15	23	30	38	45	53	60	68	200
35	350	10	20	31	41	51	61	71	82	92	250
40	350	13	27	40	53	67	80	93	107	120	305
45	500	23	45	68	90	113	135	158	180	203	360



TRAFFIC CONTROL, PARTIAL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEFR

FHWA

6

SDD 15D40-06c

6

SDD 15D40-06c

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

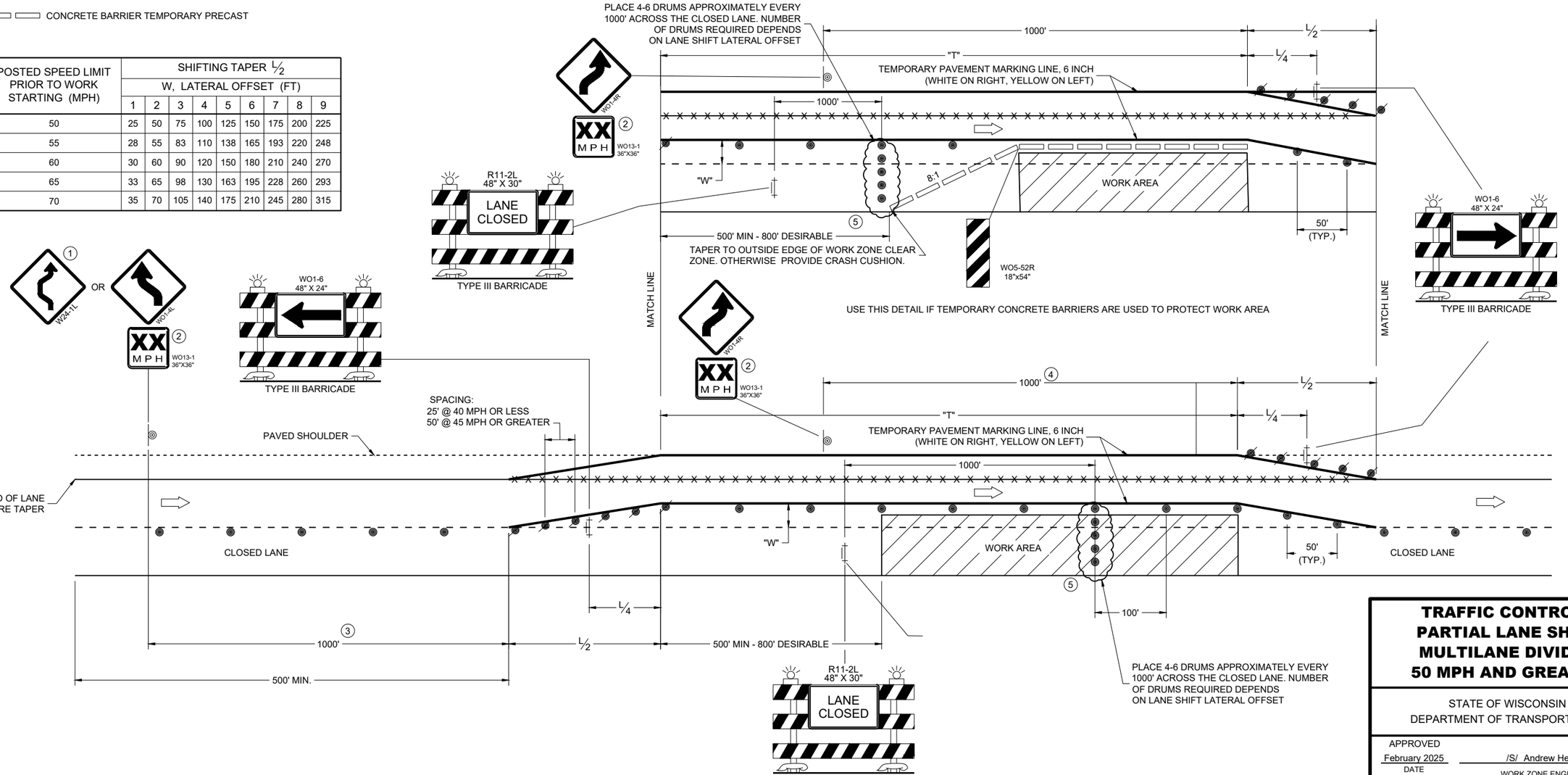
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

1. USE ONLY WHEN T<600', OMIT WO1-4R.
2. IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.
3. IF THE BEGINNING OF LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.
4. IF THE BEGINNING OF THE SECOND LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF THE FIRST LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE FIRST LANE CLOSURE TAPER.
5. DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D40-06d

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

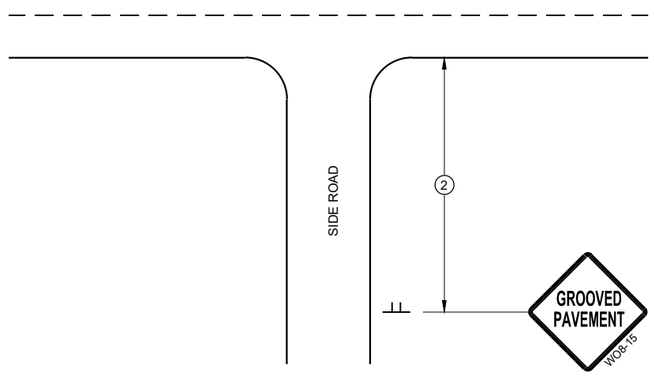
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

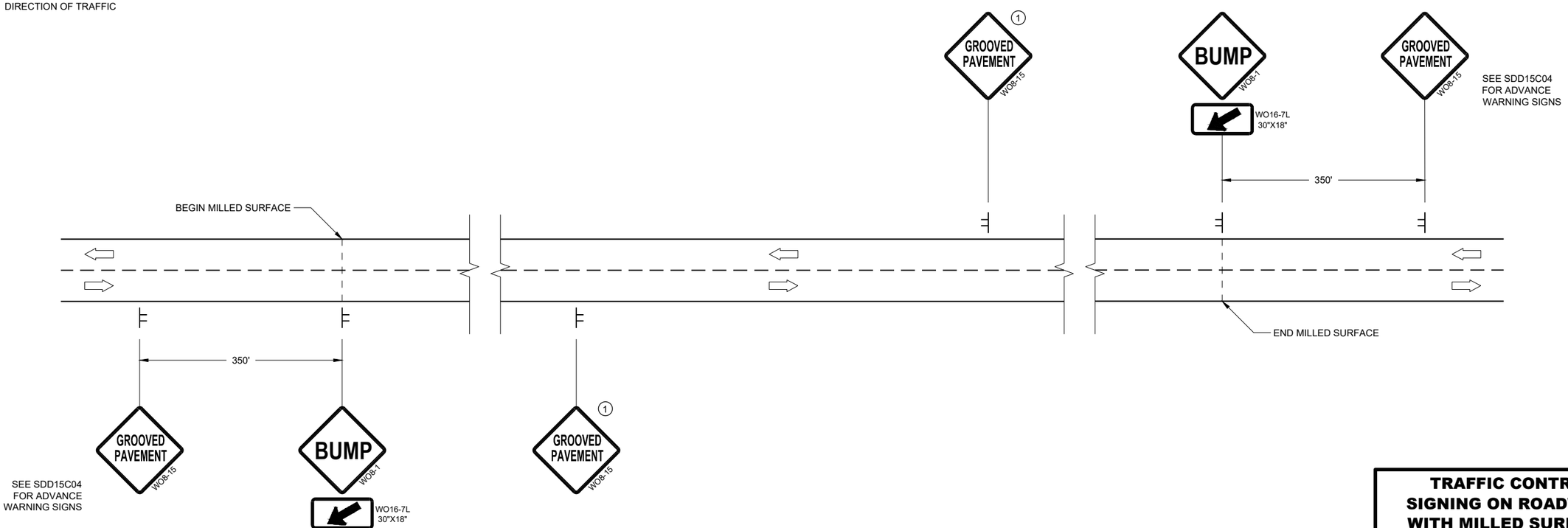
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

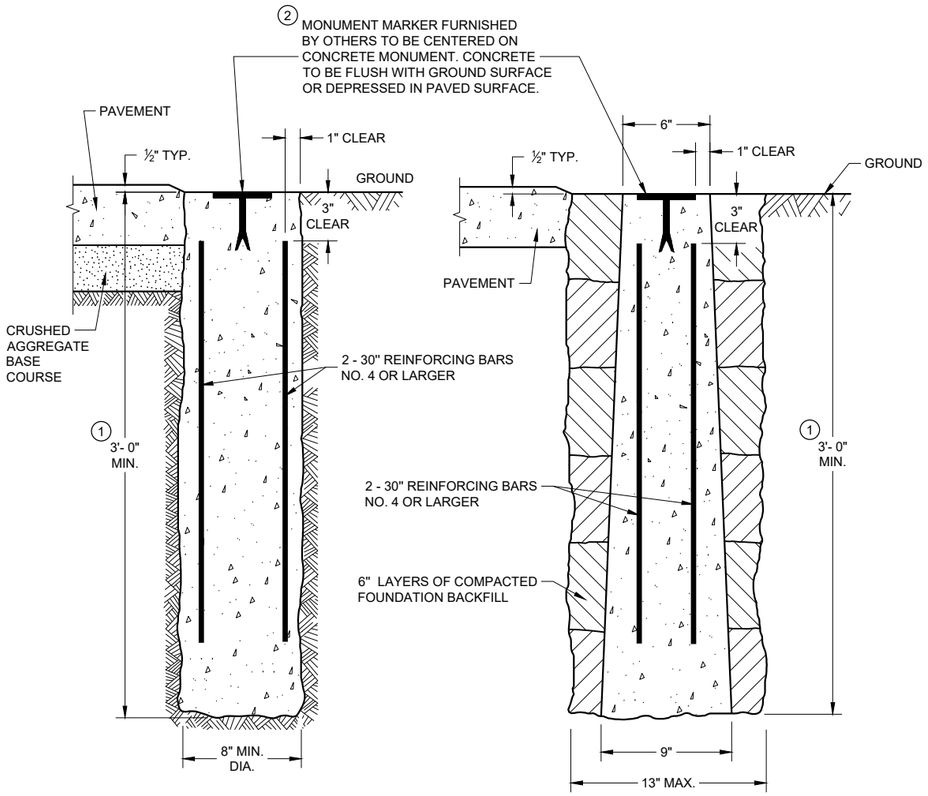
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

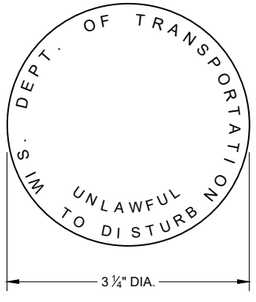
FHWA

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SDD 15D44 - 02



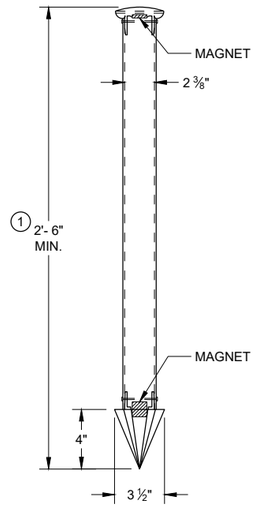
CAST-IN-PLACE **PRECAST**

CONCRETE MONUMENTS
TYPE A

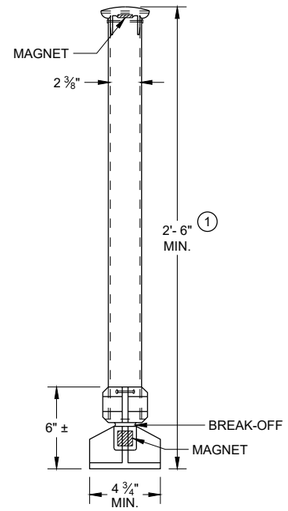


② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C" & "D"

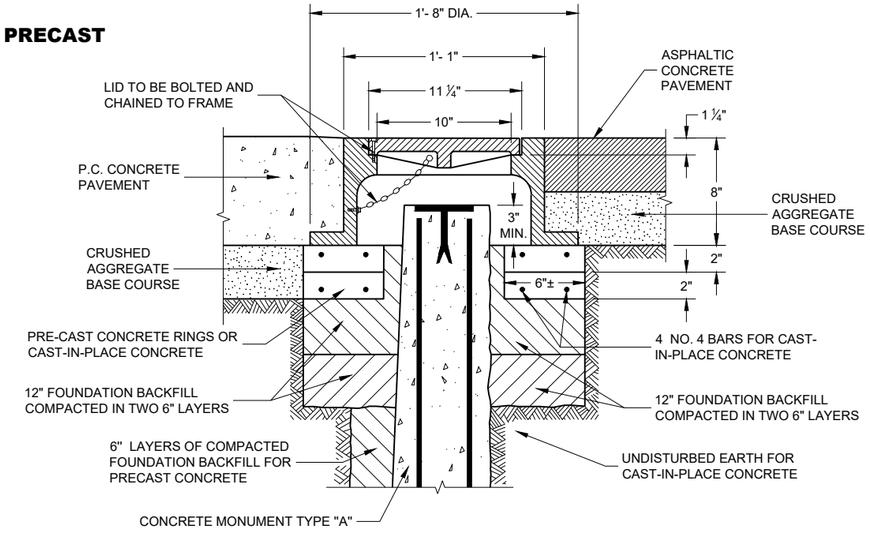


TYPE C
DRIVEN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS
(INCLUDES MARKER)



CAST IRON MONUMENT COVER
(APPROXIMATE WEIGHT 95 LBS)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

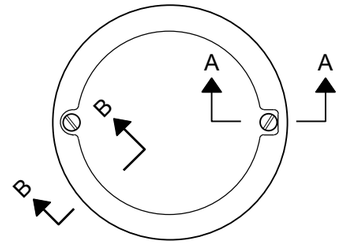
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

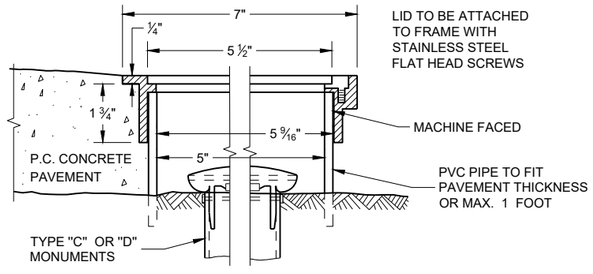
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WISDOT MARKER.



TOP VIEW



SECTION B-B **SECTION A-A**

ALUMINUM MONUMENT COVER
(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Raymond A. Kumapayii
CHIEF SURVEYING AND MA
ENGINEER

FHWA

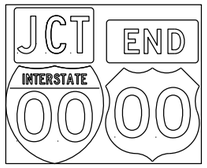
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SDD 16A01 - 07

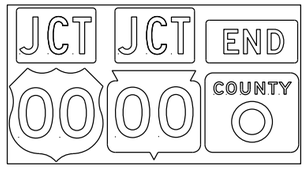
TYPICAL ASSEMBLIES



J1-1



J1-2



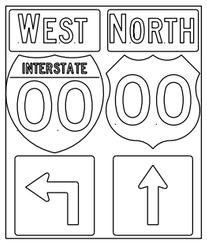
J1-3



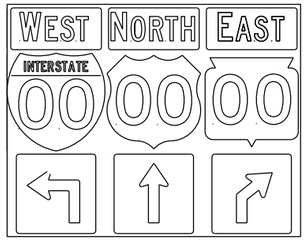
JR1-1



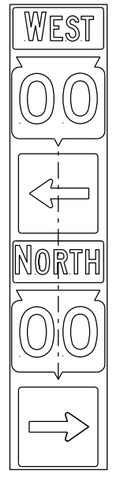
J2-1



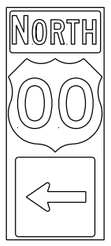
J2-2



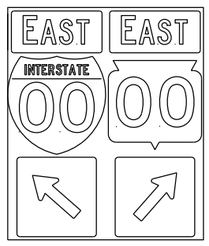
J2-3



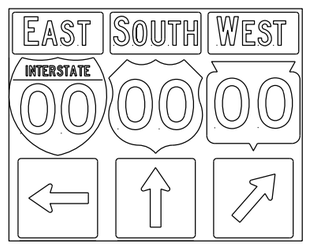
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



J3-1



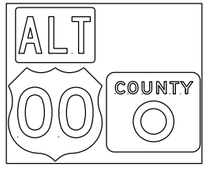
J3-2



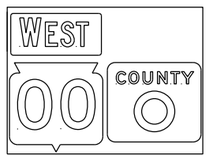
J3-3



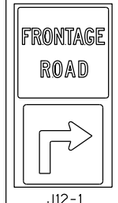
J4-1



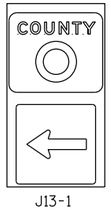
J4-2



J4-2



J12-1



J13-1



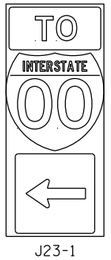
J32-1



J33-1



J22-1



J23-1



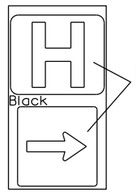
JR13-1



JR23-1



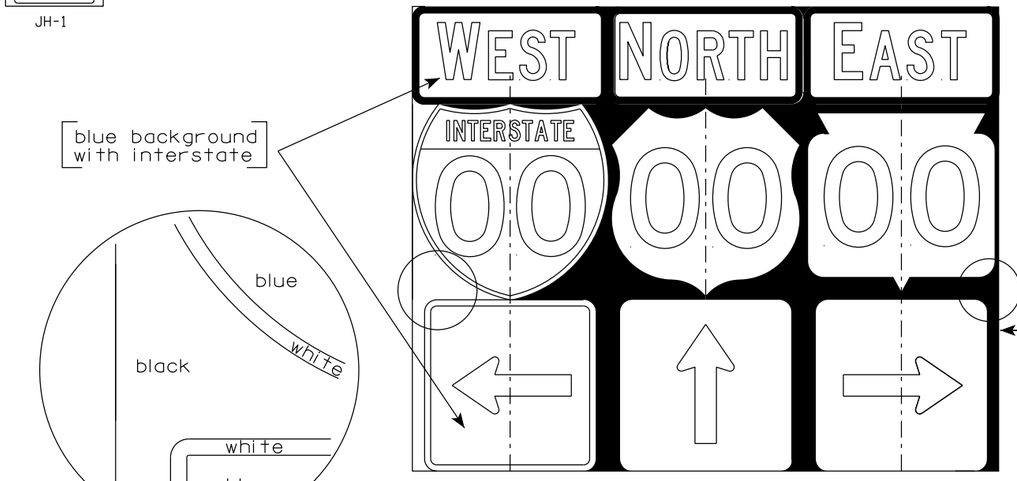
JR99-1



Blue Background
JH-1

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 4
3. Message Series - See Note 4
4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
5. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
6. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
7. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
8. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. All Vertical J Assemblies are given a Sign Code of JV
10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.



ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

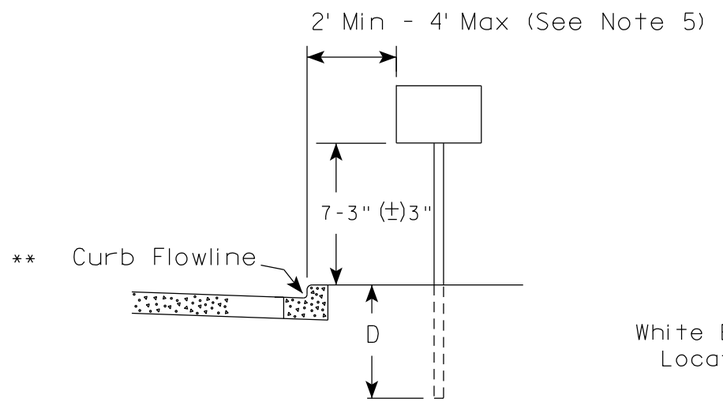
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/23 PLATE NO. A2-1S.10

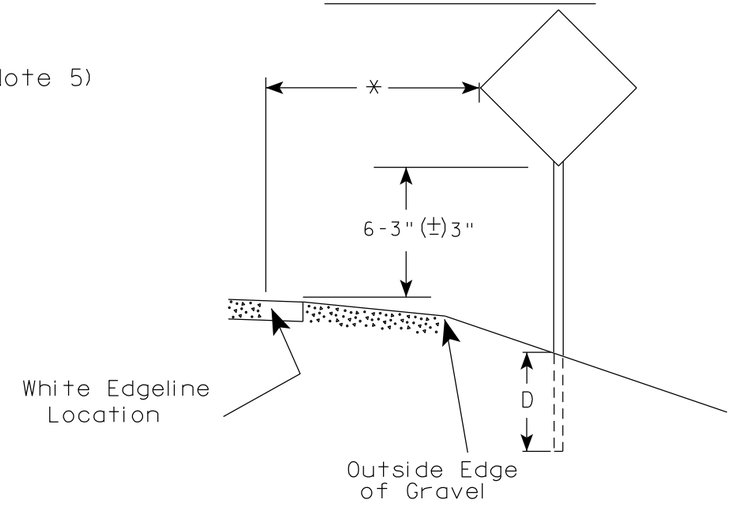
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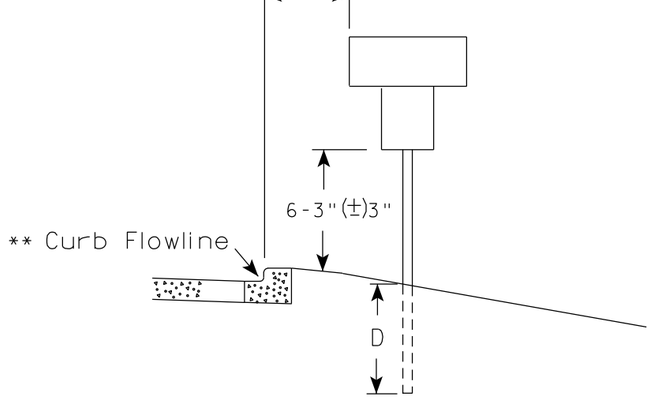
SHEET NO: 333 E

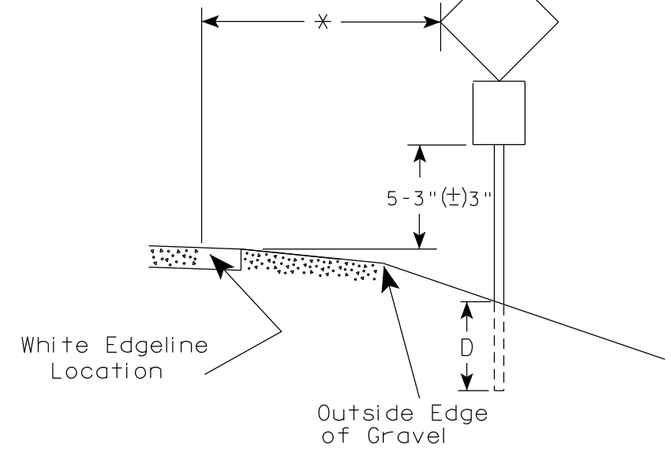
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

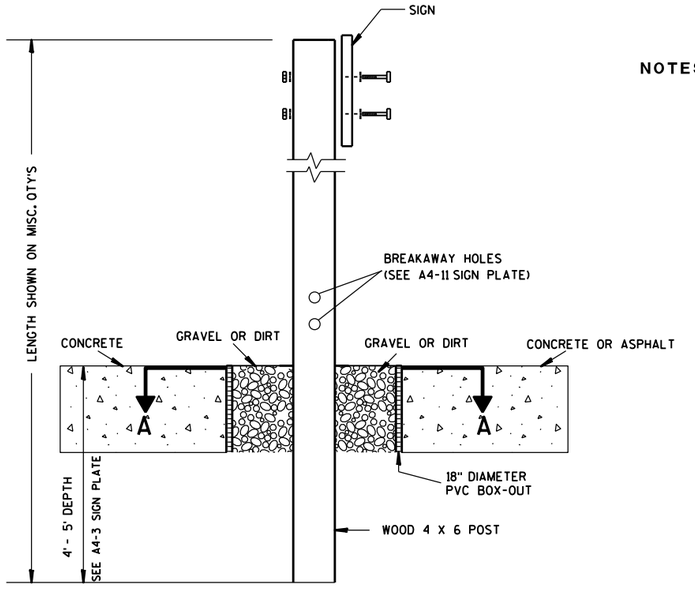
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

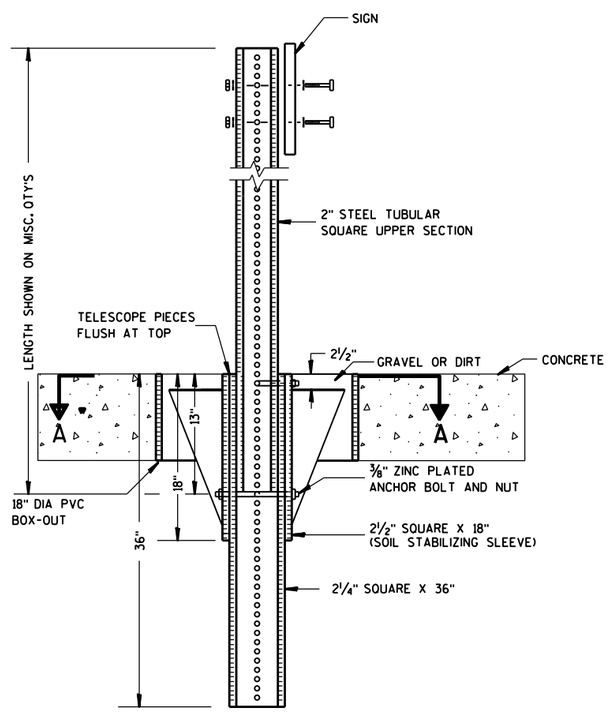
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 334	E



ELEVATION VIEW

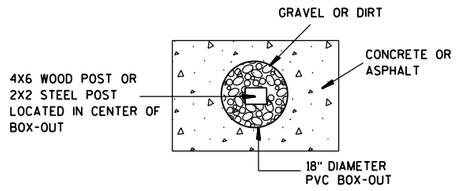
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

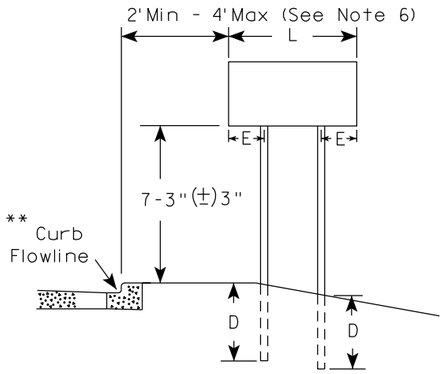
APPROVED Matthew R Rauch
for State Traffic Engineer

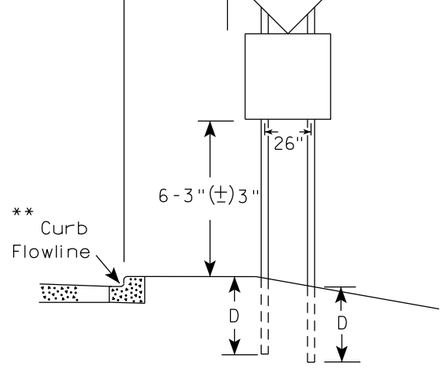
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

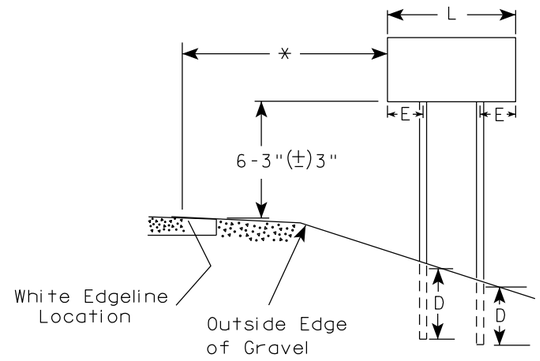
URBAN AREA

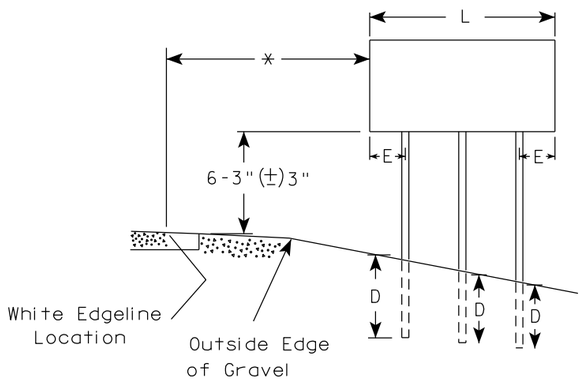


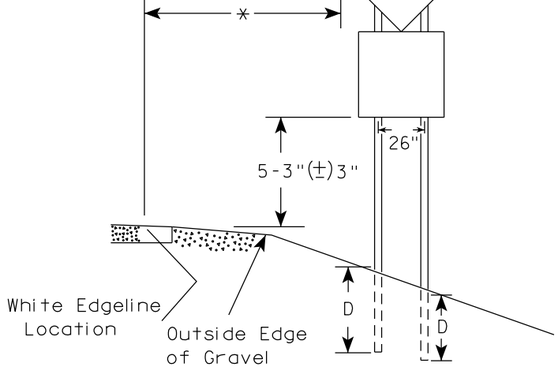


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

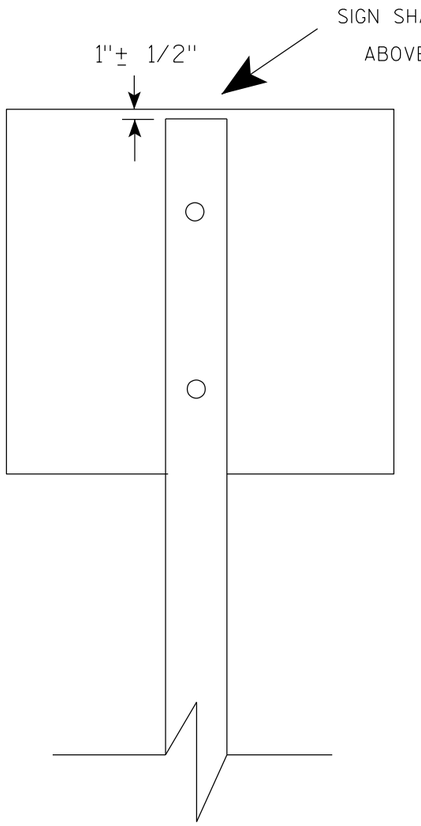
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

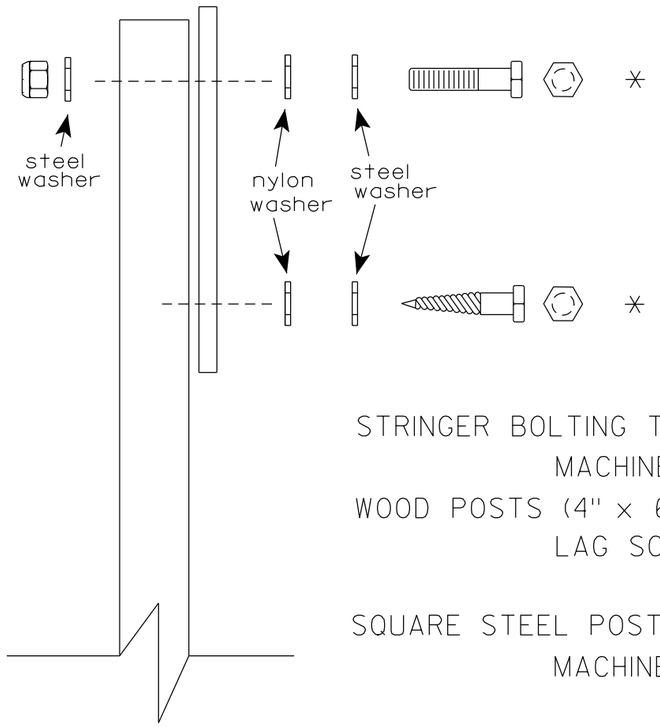
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 336	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

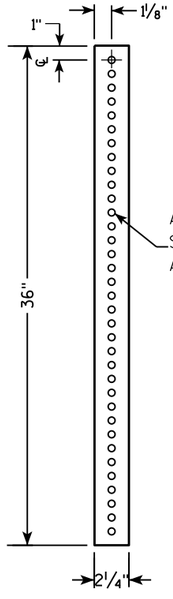
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

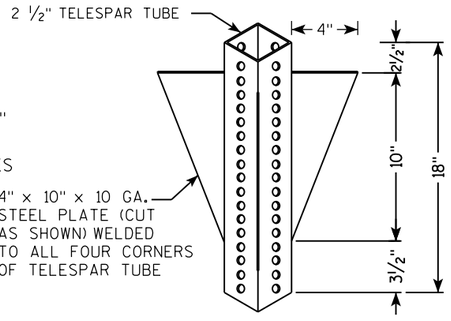
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

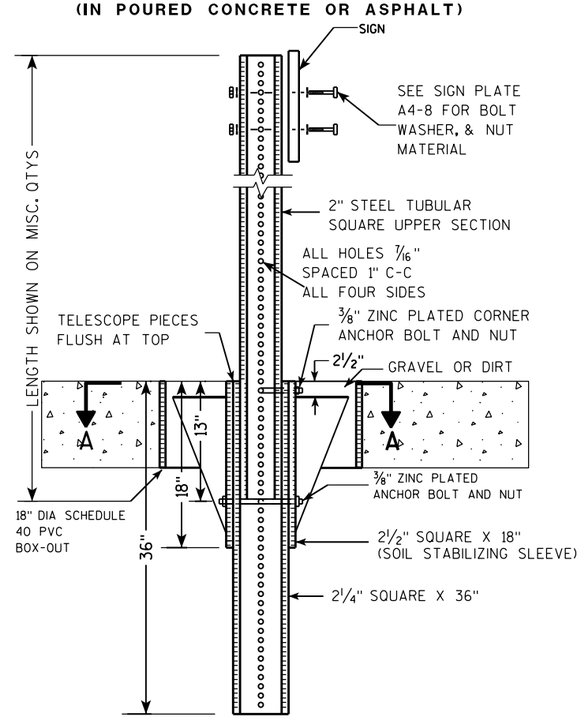
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



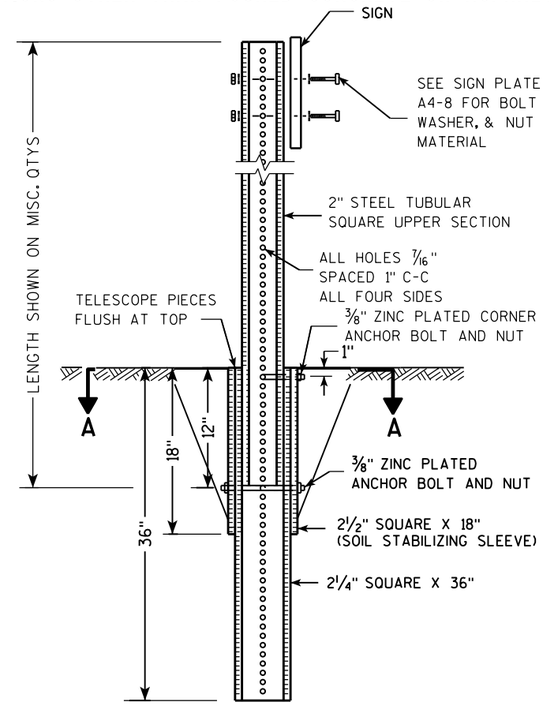
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

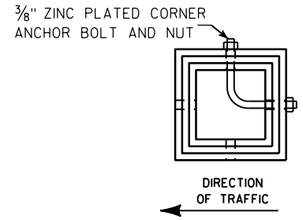


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

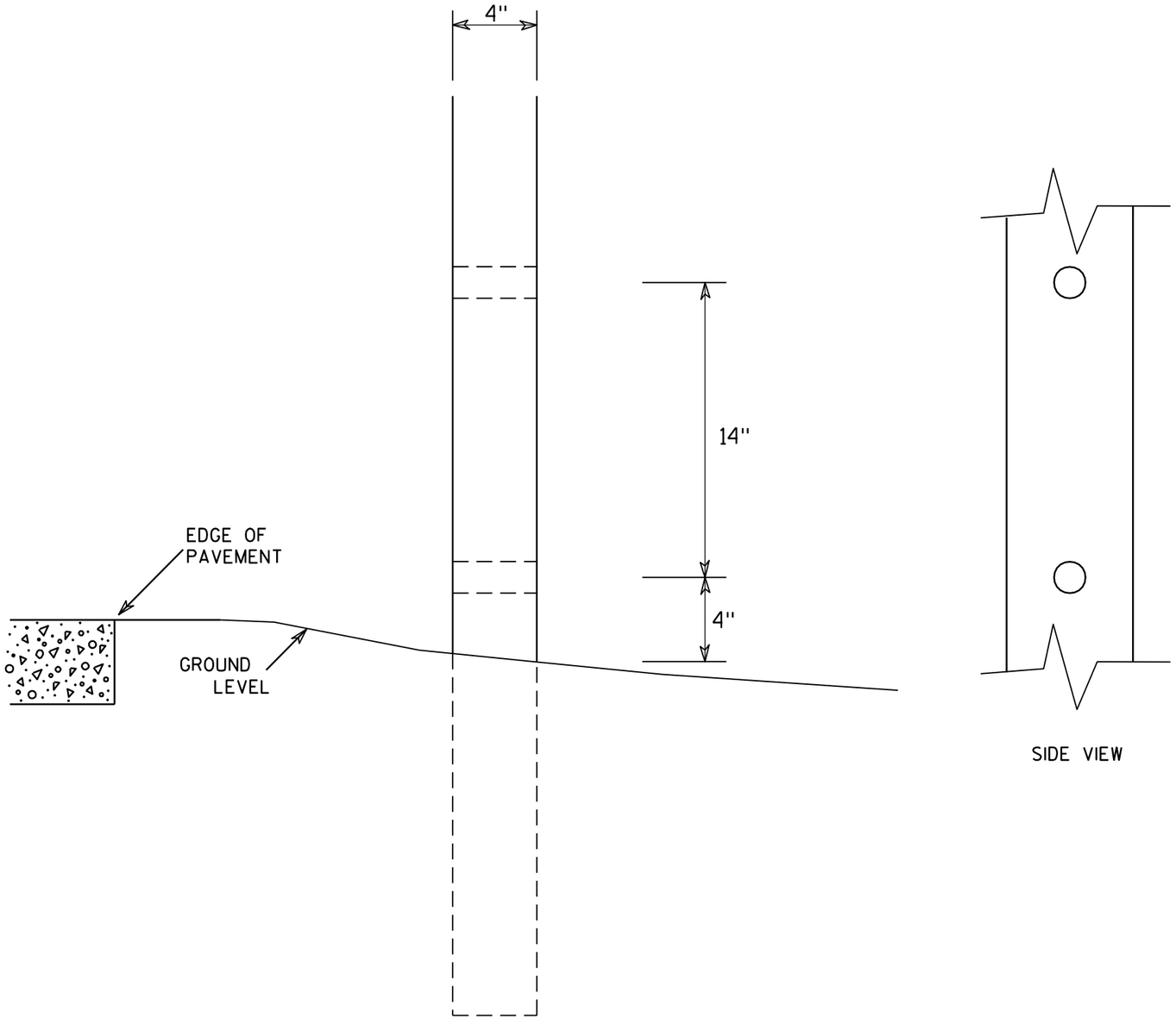
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 338 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

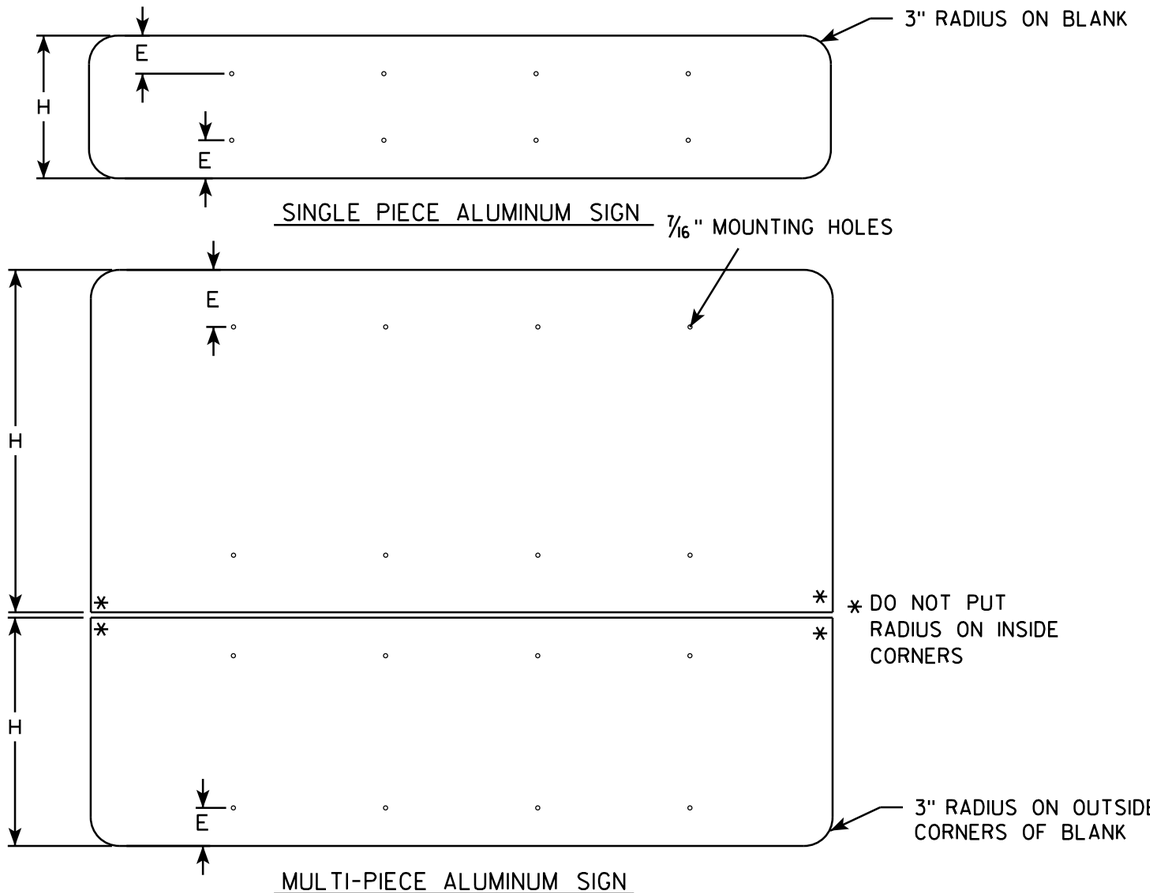
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

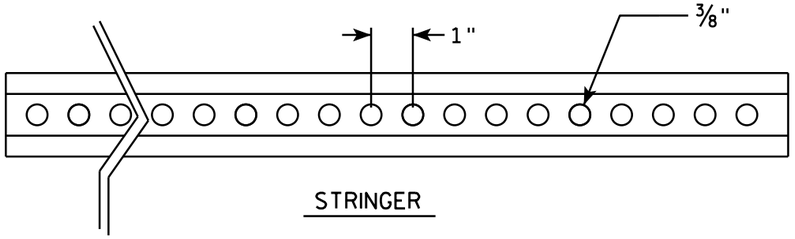
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 339	E

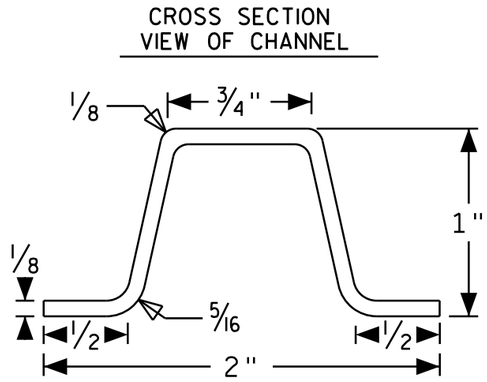


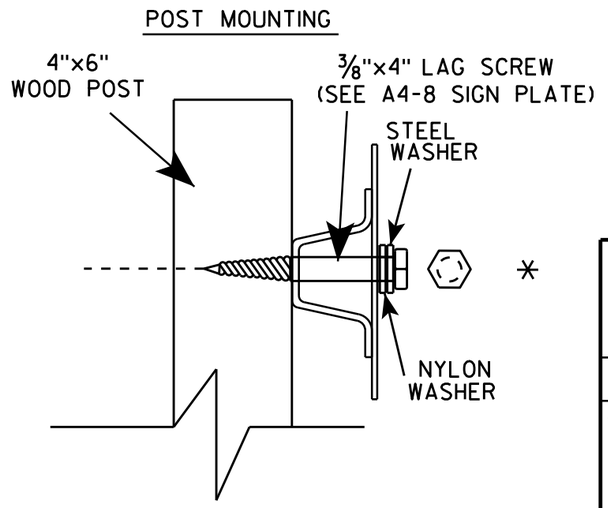
GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"







SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

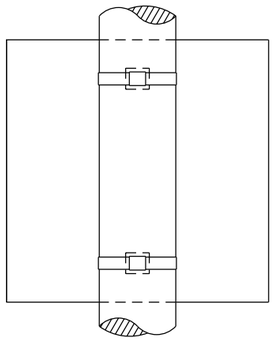
DATE 4/26/16 PLATE NO A4-18.1

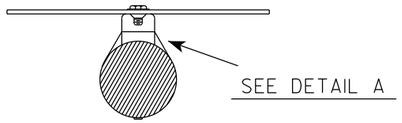
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

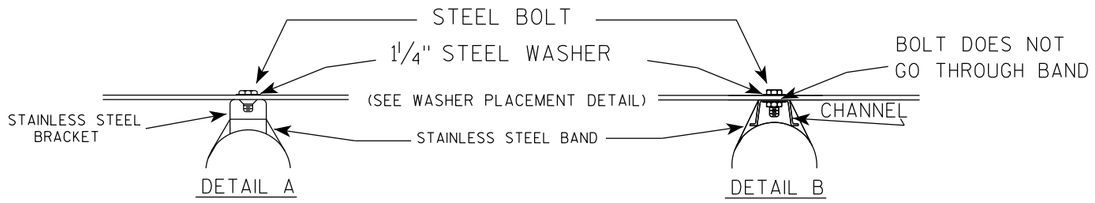
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BANDING

SINGLE SIGN



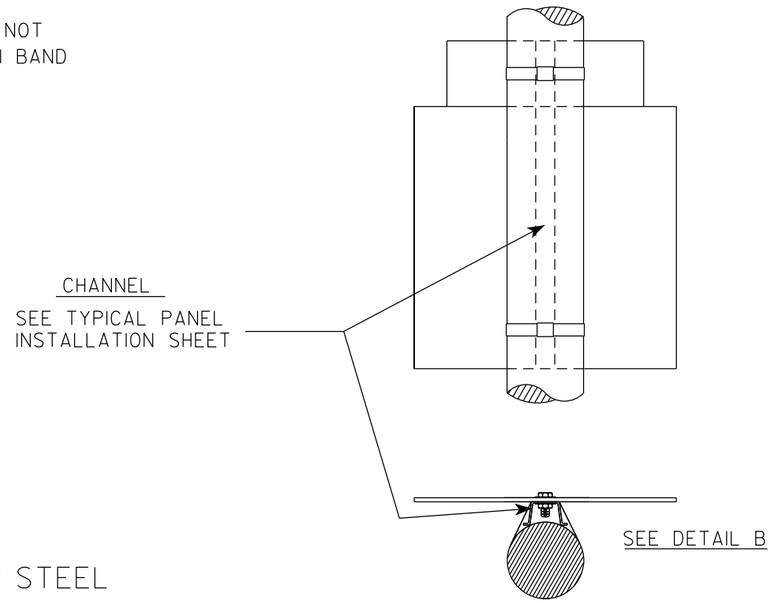




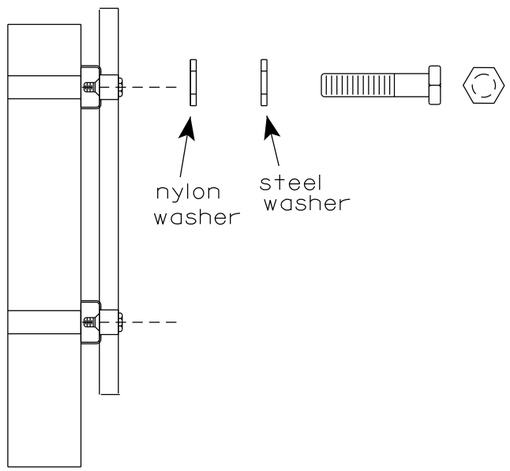
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

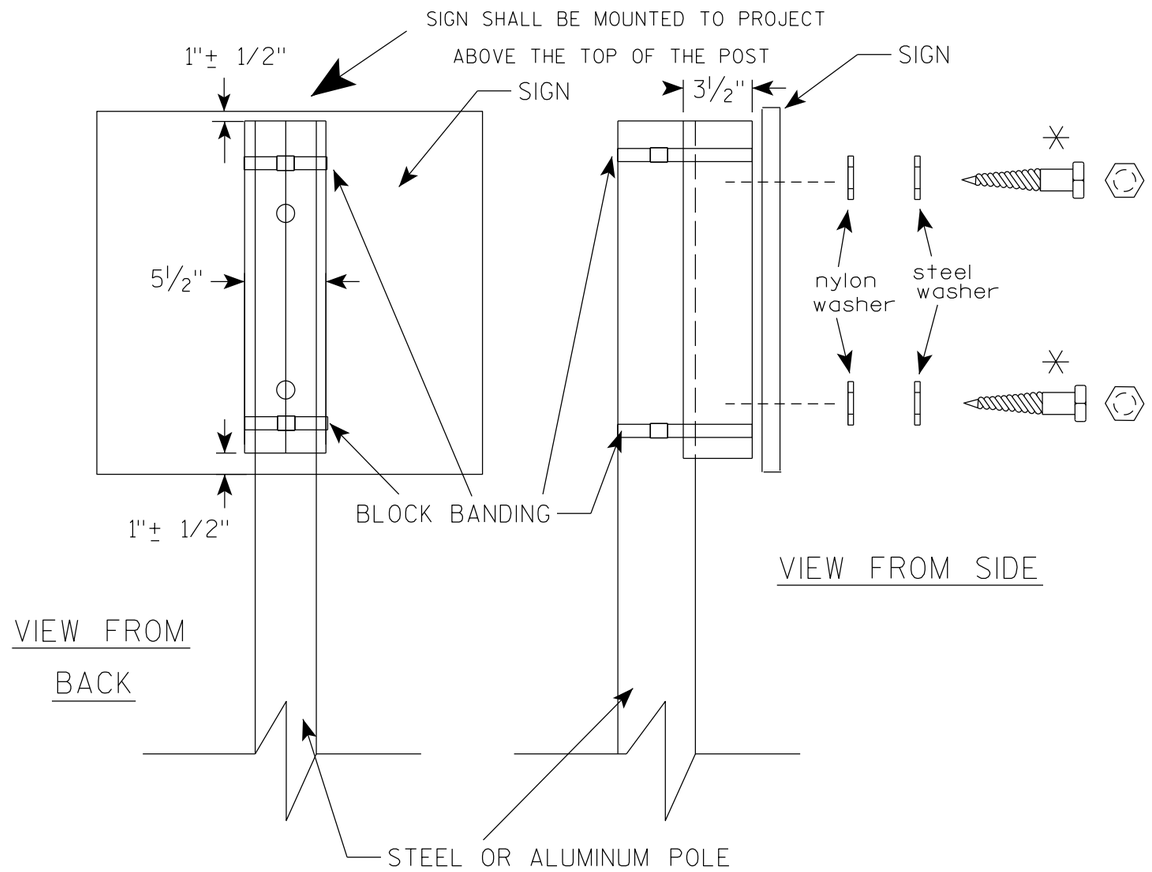
WISCONSIN DEPT OF TRANSPORTATION

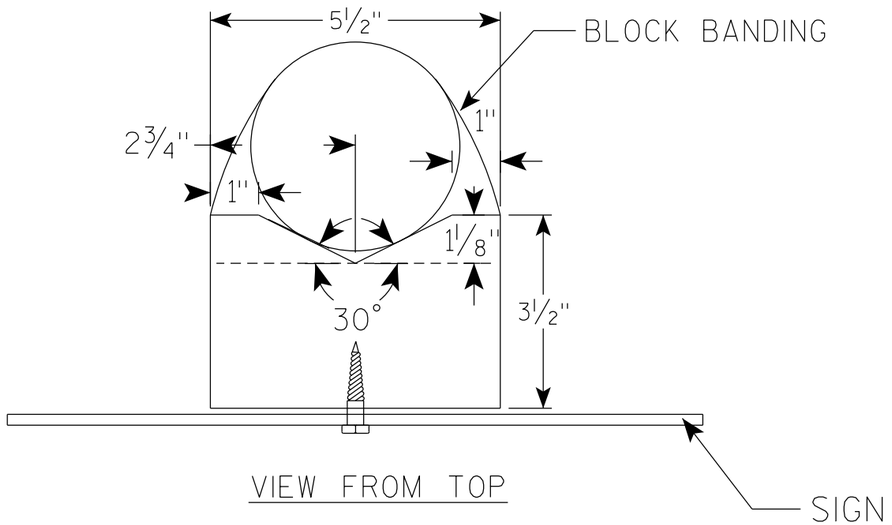
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-9.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 341	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

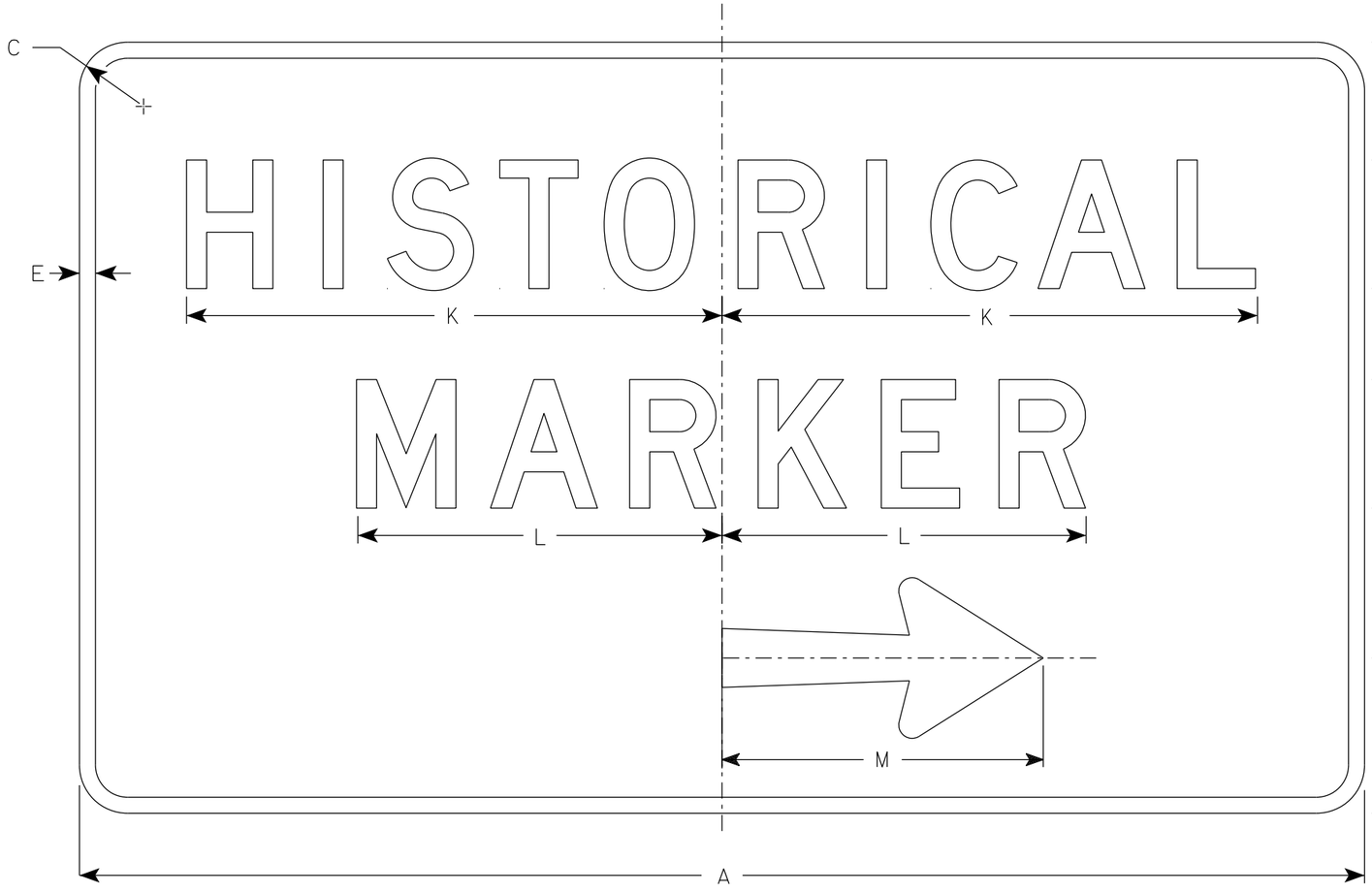
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

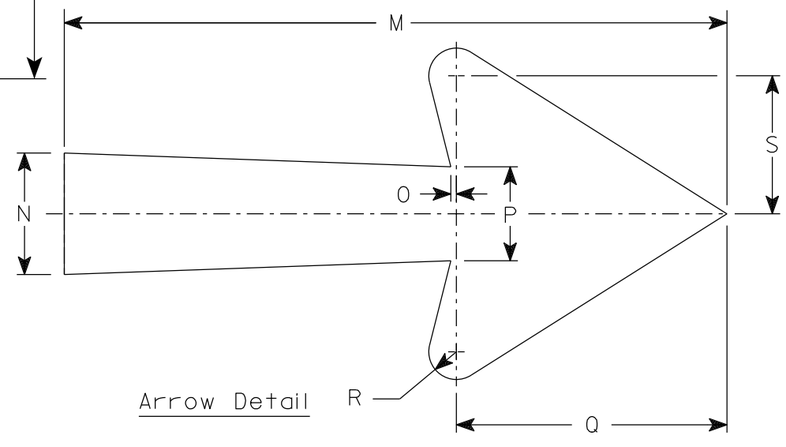
SHEET NO: 342 E



D5-64R

NOTES

1. Sign is Type II - Type H Reflective - reference
2. Color:
   Background - Brown
   Message - White
3. Message Series - D
4. D5-64L is the same as D5-64R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	36	1 7/8		3/4	6	4 5/8	4 1/2	7 1/8	7 3/4	25	17	15	2 3/4	1/8	2 1/8	6 1/8	5/8	3 1/8								15.0
2M	60	36	1 7/8		3/4	6	4 5/8	4 1/2	7 1/8	7 3/4	25	17	15	2 3/4	1/8	2 1/8	6 1/8	5/8	3 1/8								15.0
3	78	48	3		1	8	6	6	10	10	32 3/4	22 3/8	21	4 1/4	1/4	2 3/4	7 7/8	3/4	4								26.0
4																											
5																											

STANDARD SIGN
D5-64

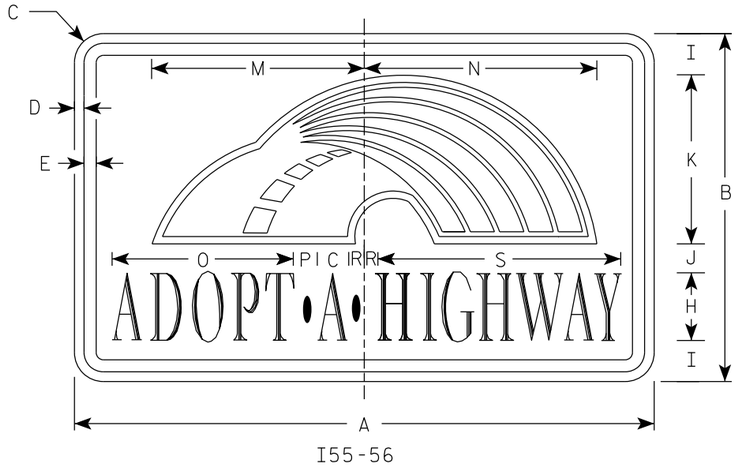
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

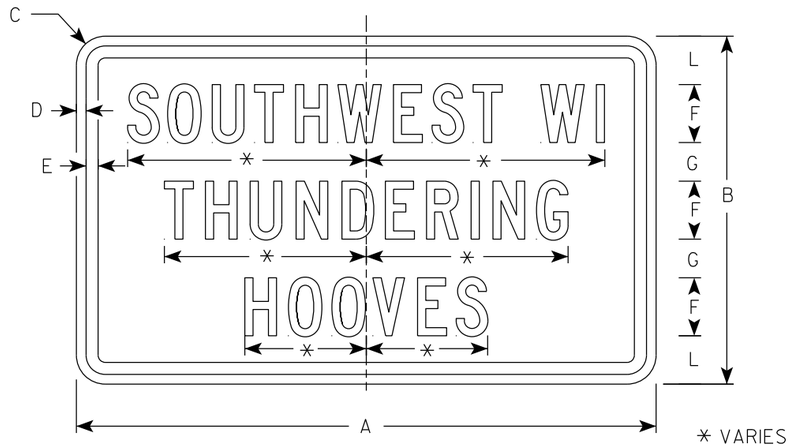
DATE 3/27/2024 PLATE NO. D5-64.7

PROJECT NO:

SHEET NO: 343 E



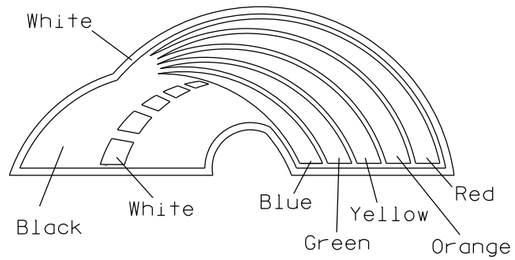
I55-56



I55-56P

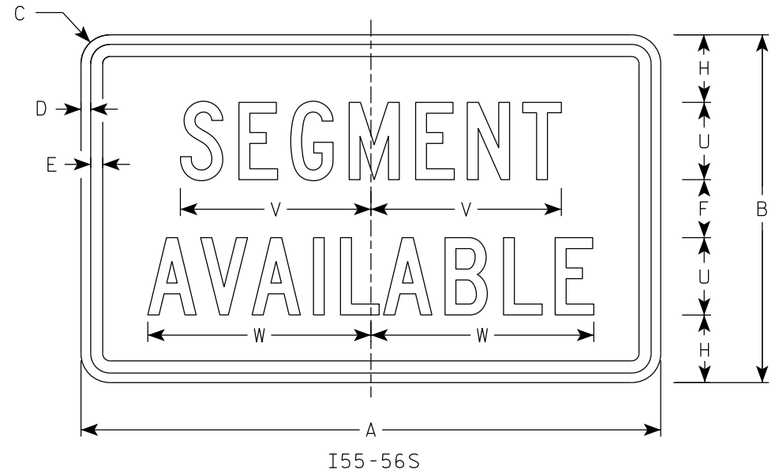
* VARIES

Background Colors of Symbol*



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
   Rainbow detail - See Below
3. Message Series - Adopt a Highway - Dutch 8011L
   All other Text - Series C
4. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.



I55-56S

*1/4" Black Border between each color of rainbow and border of rainbow

*3/8" White Border surrounds the whole image of the rainbow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	18	1 1/2	1/2	5/8	3	2	3 1/2	2 1/4	1 1/2	8 1/2	2 1/2	11	12	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

STANDARD SIGN
I55-56

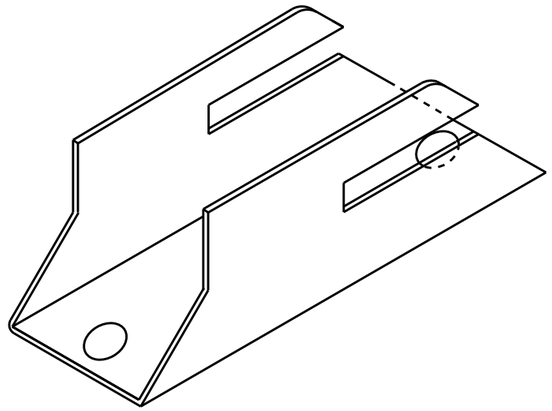
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

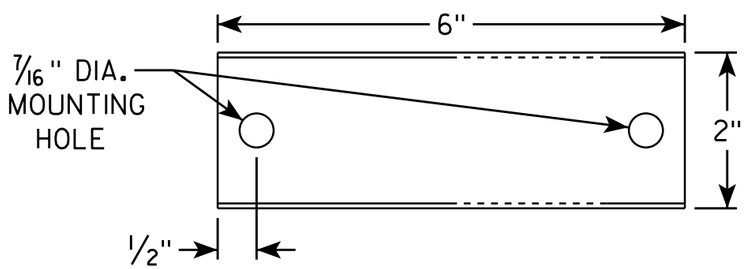
DATE 3/13/2025 PLATE NO. 155-56.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 344 | E

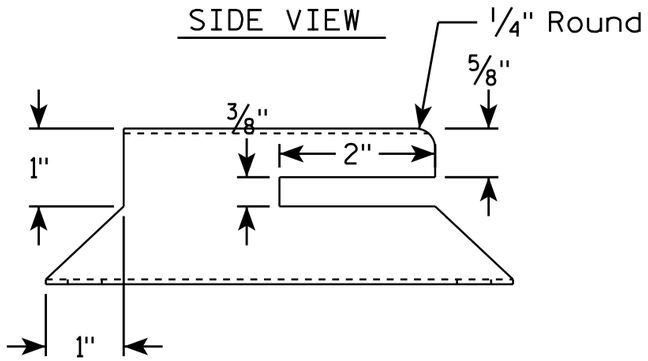
ISOMETRIC VIEW



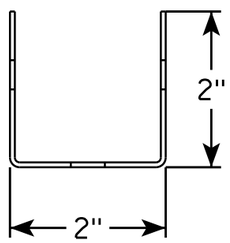
TOP VIEW



SIDE VIEW



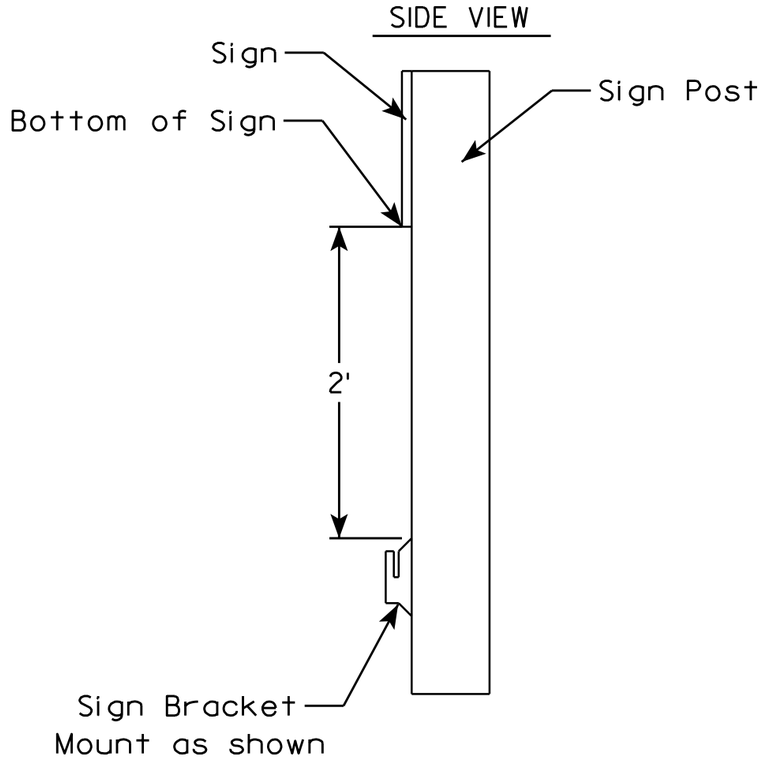
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

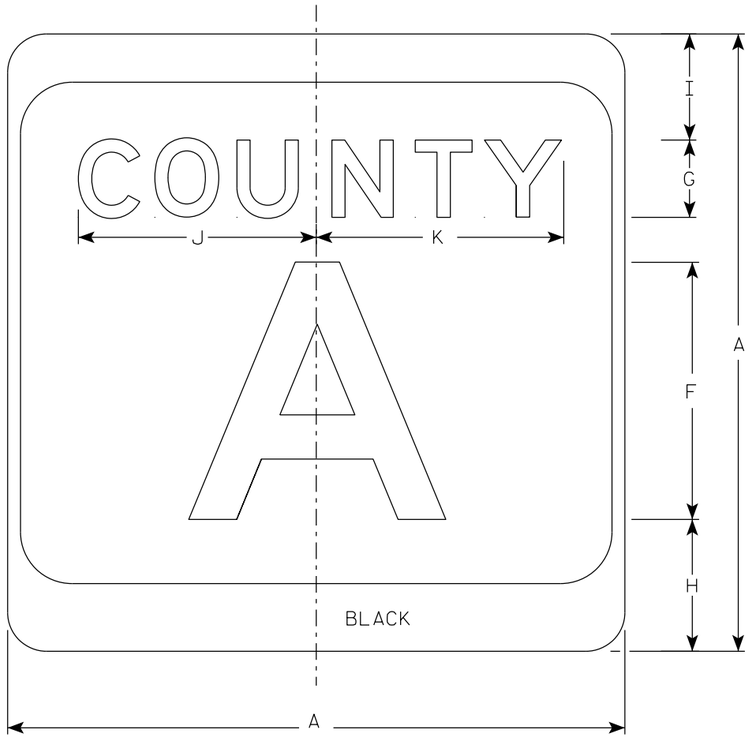
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

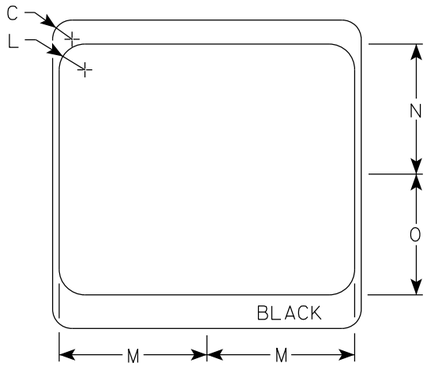
DATE 4/26/16 PLATE I55-56B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42

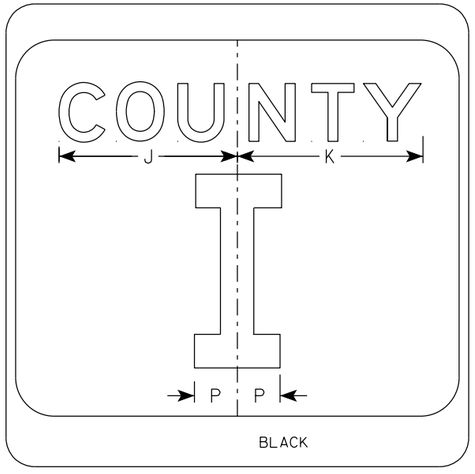


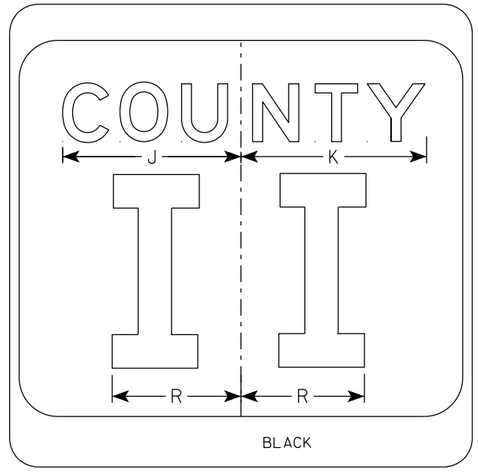
M1-5A



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White & Black
   Message - Black
3. Message Series - see Note 4
4. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
5. Substitute appropriate letters & optically center to achieve proper balance.





SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

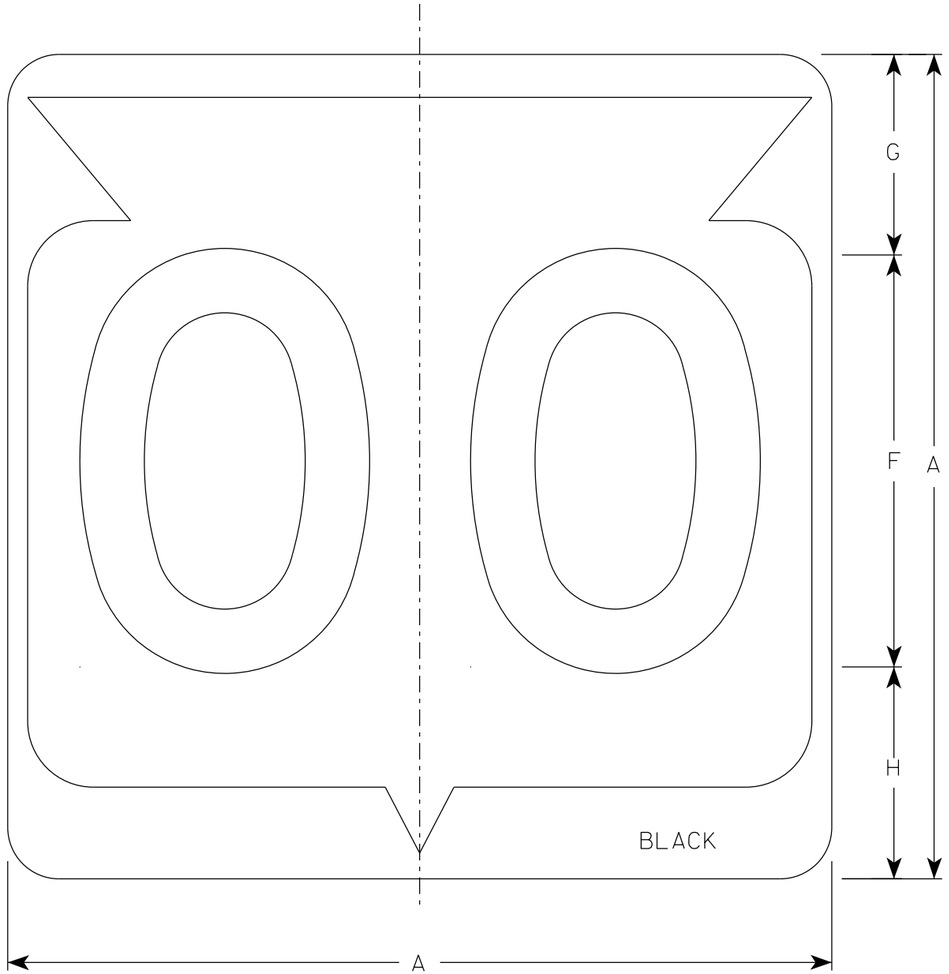
DATE 11/8/2022 PLATE NO. M1-5A.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M15A.dgn PLOT DATE : 8-NOV 2022 8:26 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

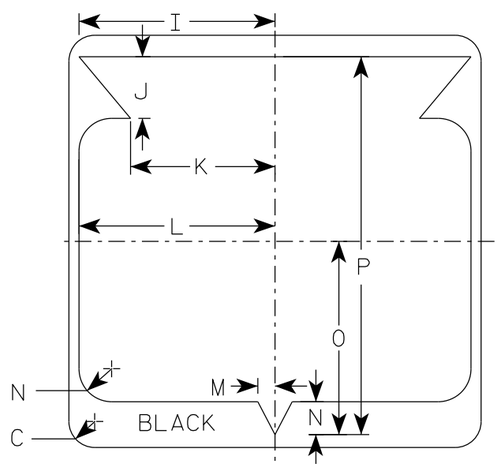
7



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

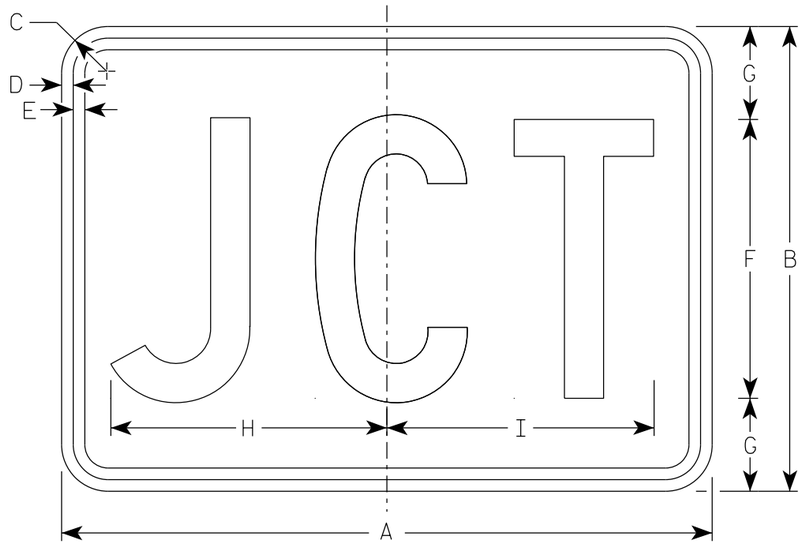
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

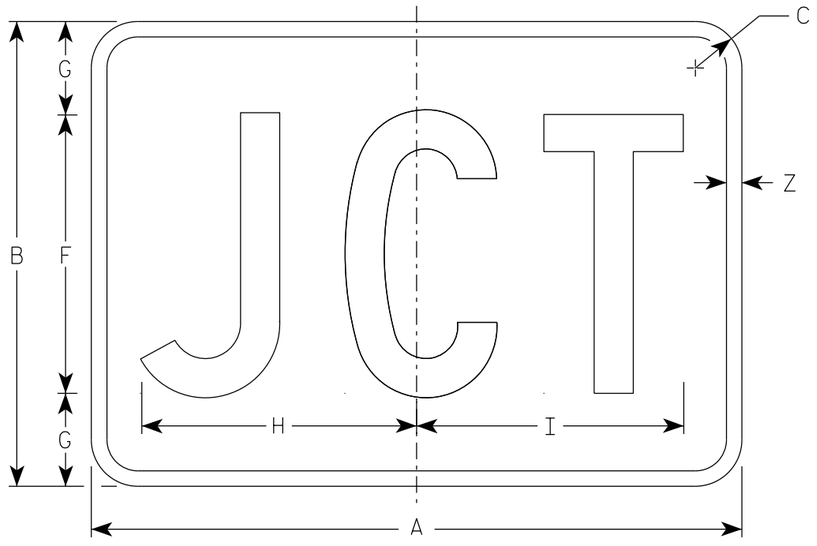
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 347	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
2M	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
3	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
4	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
5	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40

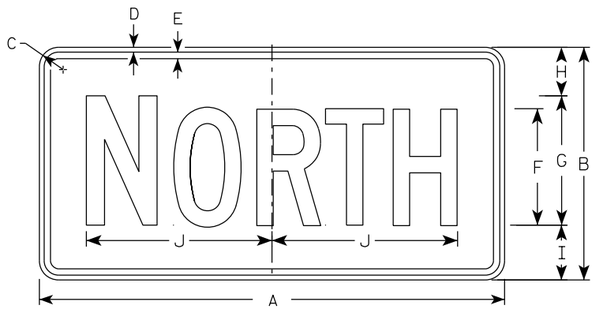
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

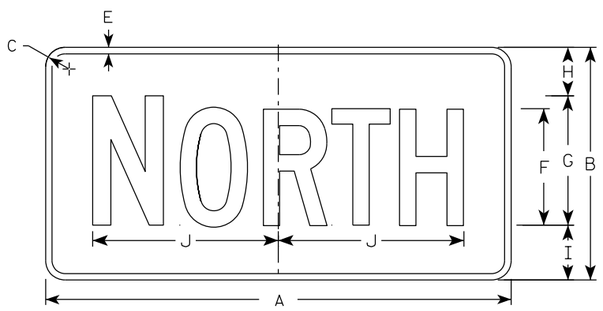
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M2-1.14

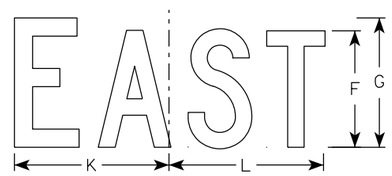
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 348 | E



M3-1
MM3-1
MP3-1



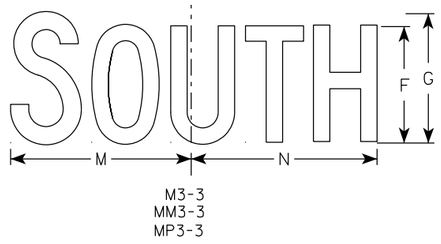
MB3-1
MK3-1
MN3-1



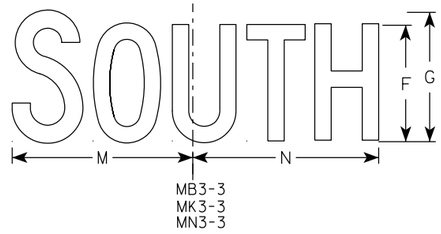
M3-2
MM3-2
MP3-2



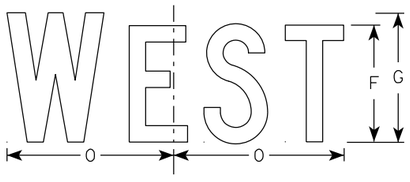
MB3-2
MK3-2
MN3-2



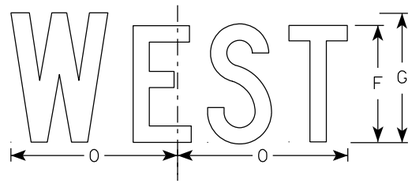
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

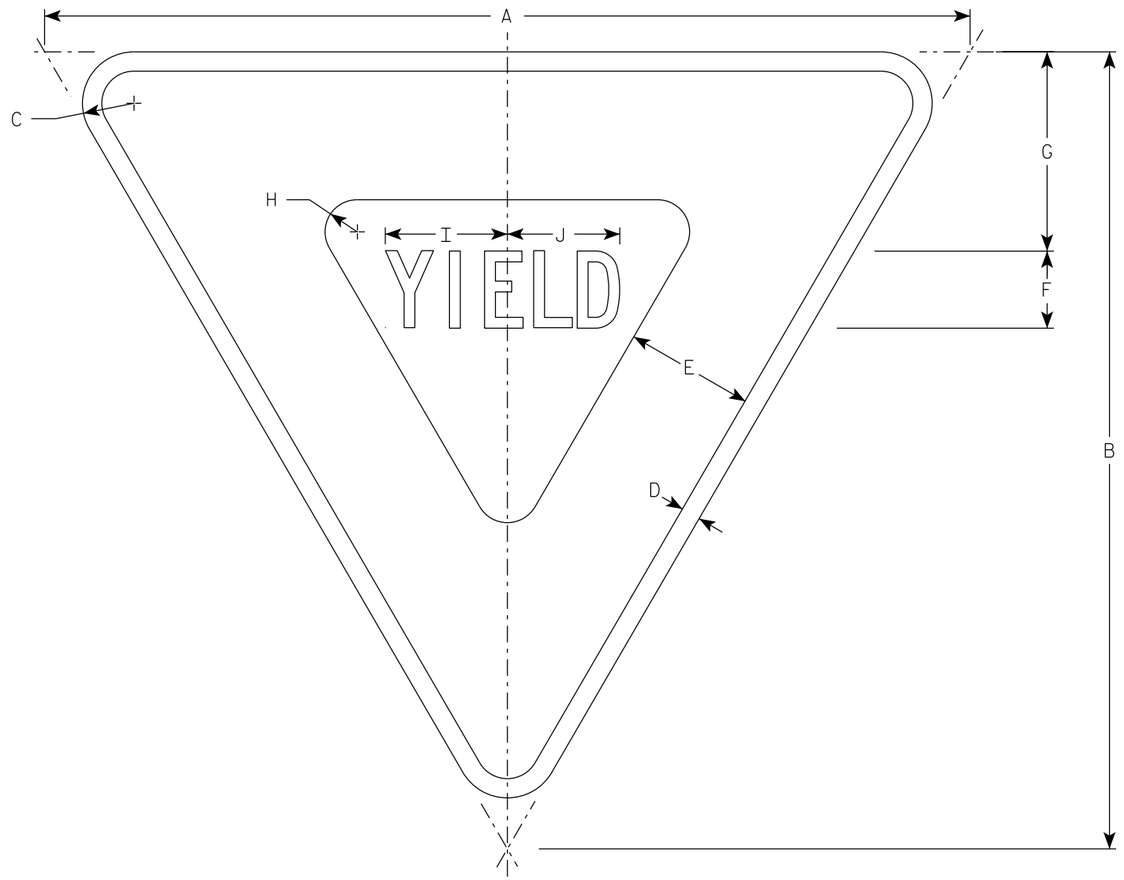
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 349 | E



R1-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 4
3. Message Series - C
4. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

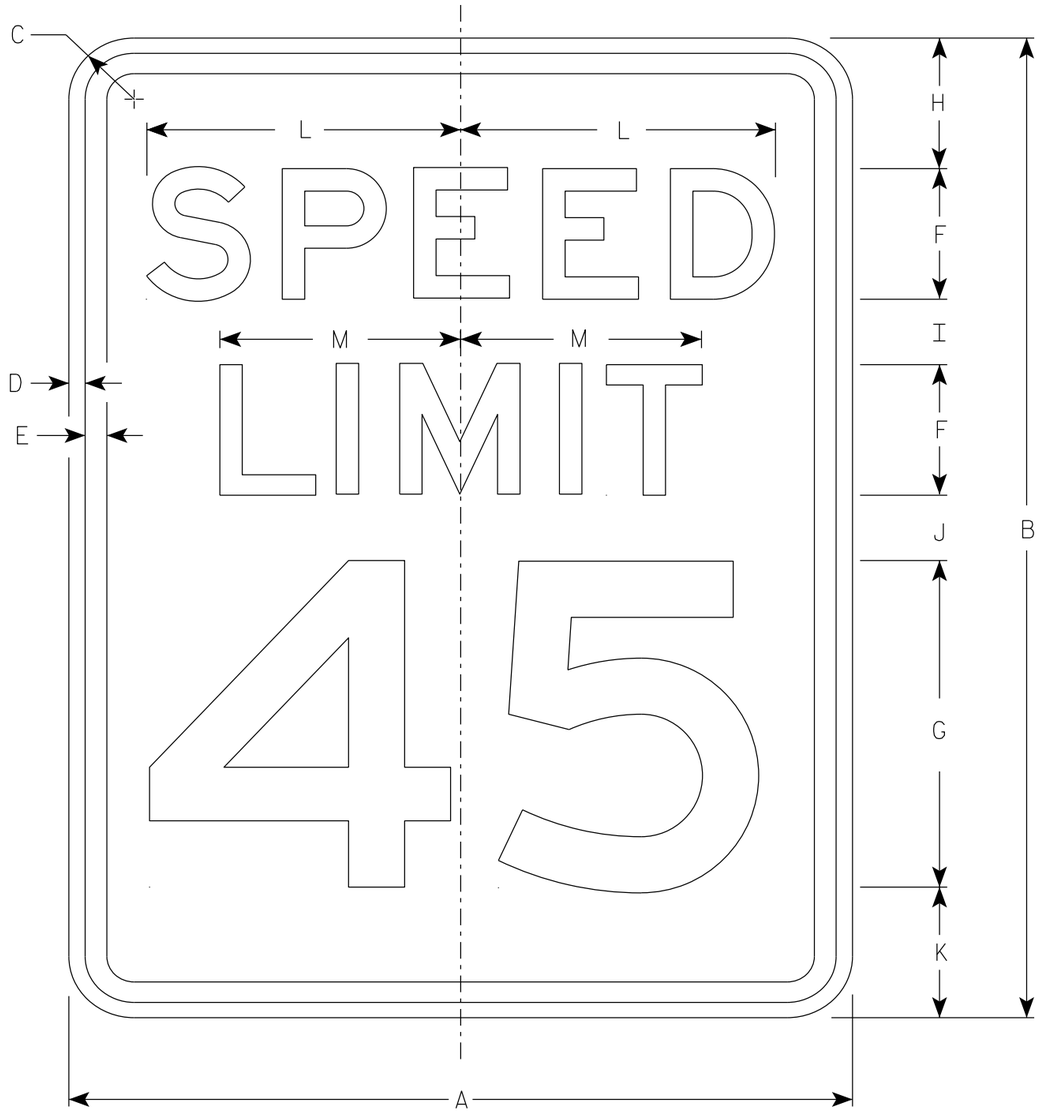
DATE 9/10/2024 PLATE NO. R1-2.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 350	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R12.dgn PLOT DATE : 10-SEPT 2024 3:11 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

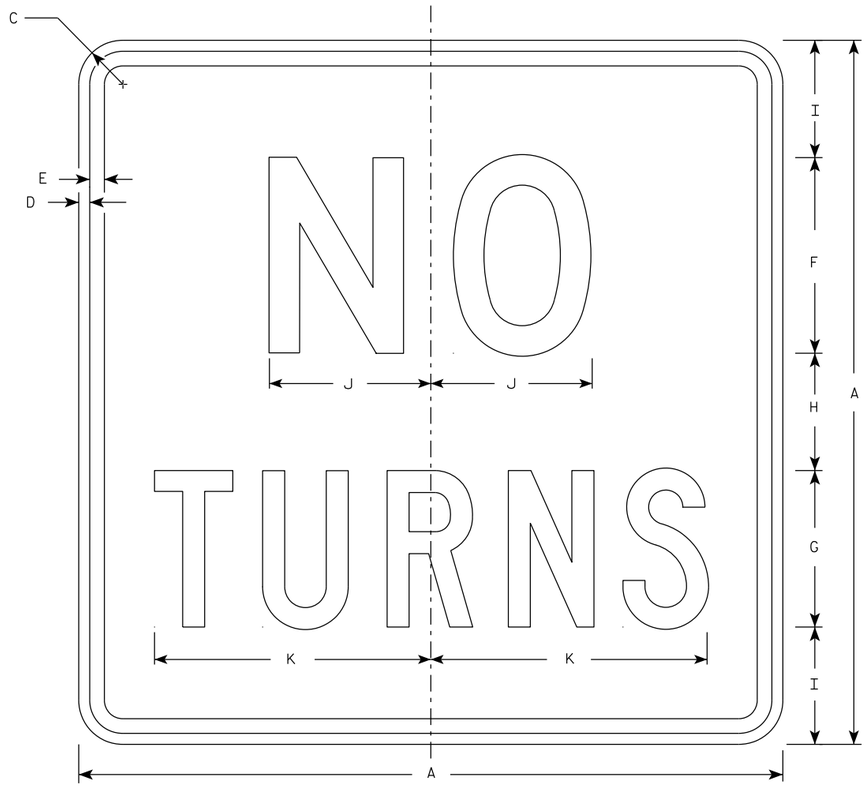
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 351 | E



R3-3

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 4
4. Line 1 is Series D and Line 2 is Series C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/2	3/8	1/2	6	5	4	4 1/2	5 1/8	8 3/4																4.0
2M	36		2 1/4	5/8	3/4	10	8	6	6	8 1/4	14 1/8																9.0
3	36		2 1/4	5/8	3/4	10	8	6	6	8 1/4	14 1/8																9.0
4	36		2 1/4	5/8	3/4	10	8	6	6	8 1/4	14 1/8																9.0
5	48		2 1/4	3/4	1	12	10	8	9	10 1/4	17 5/8																16.0

STANDARD SIGN
R3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

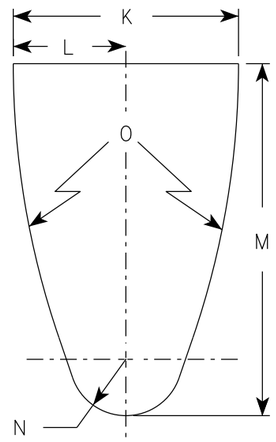
DATE 2/13/23 PLATE NO. R3-3.11

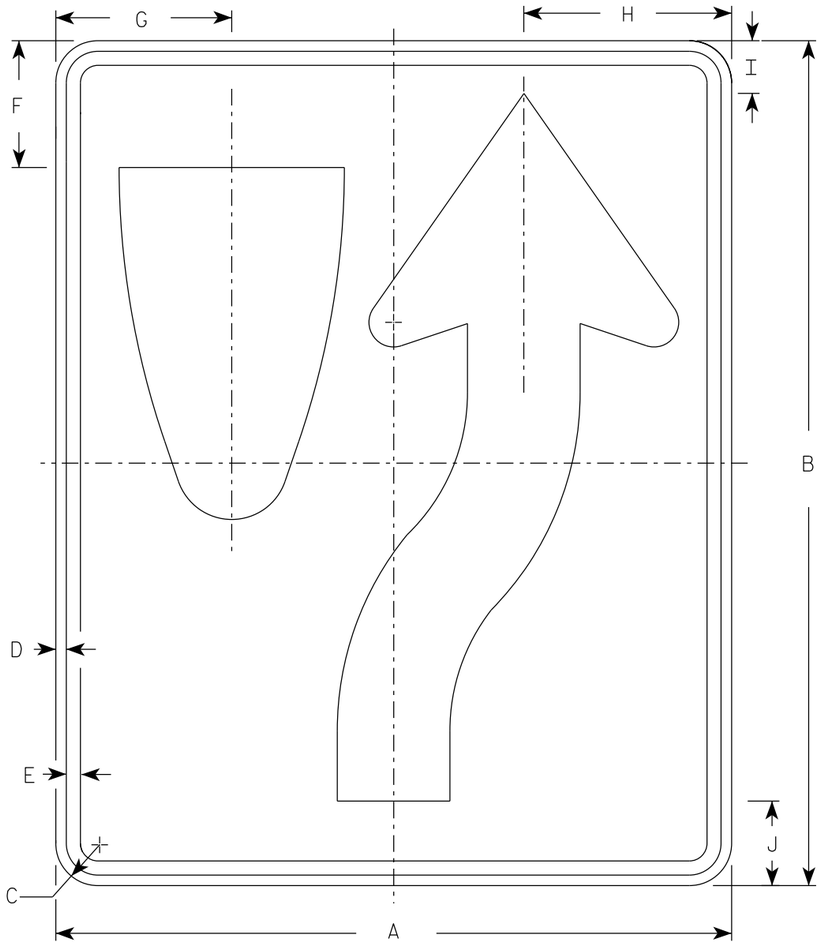
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 352 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. R4-8 is the same as R4-7 except Legend is reversed.

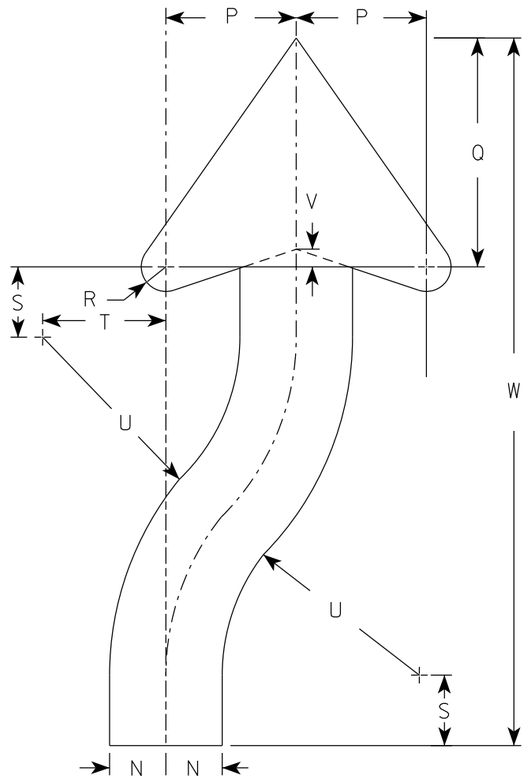
DIVIDER DETAIL





R4-7

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	3	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

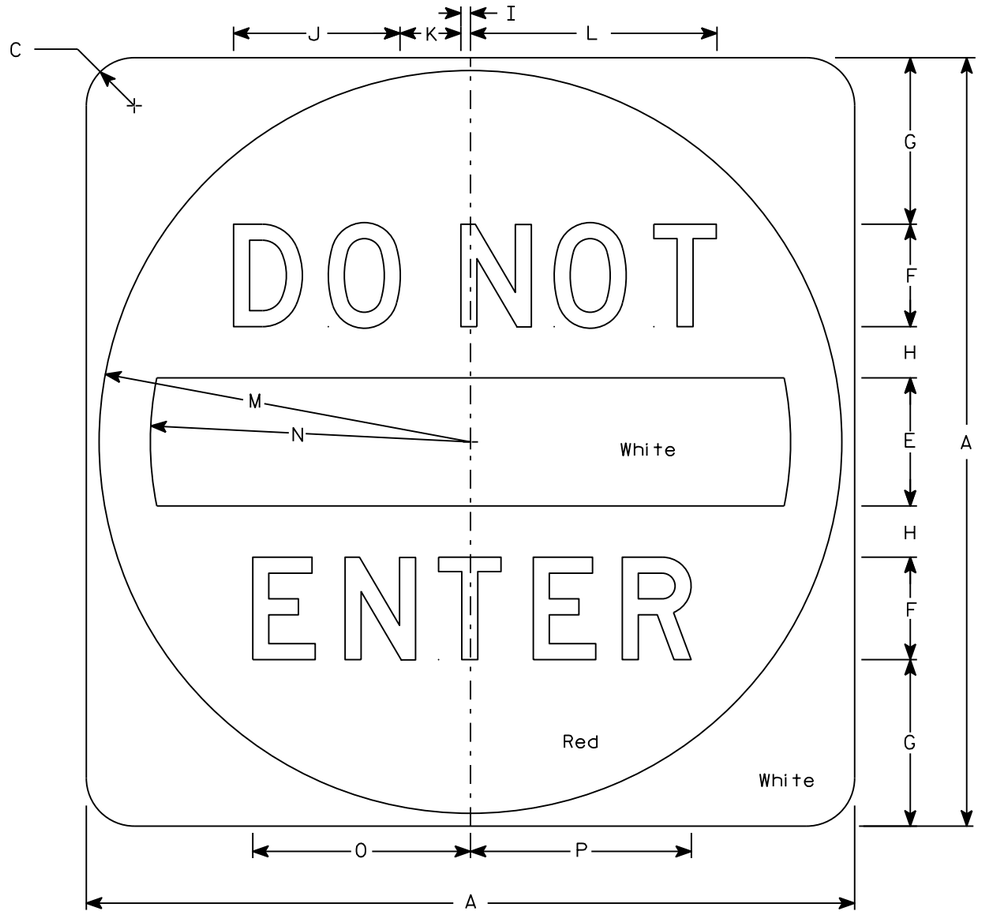
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/17/23 PLATE NO. R4-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 353	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

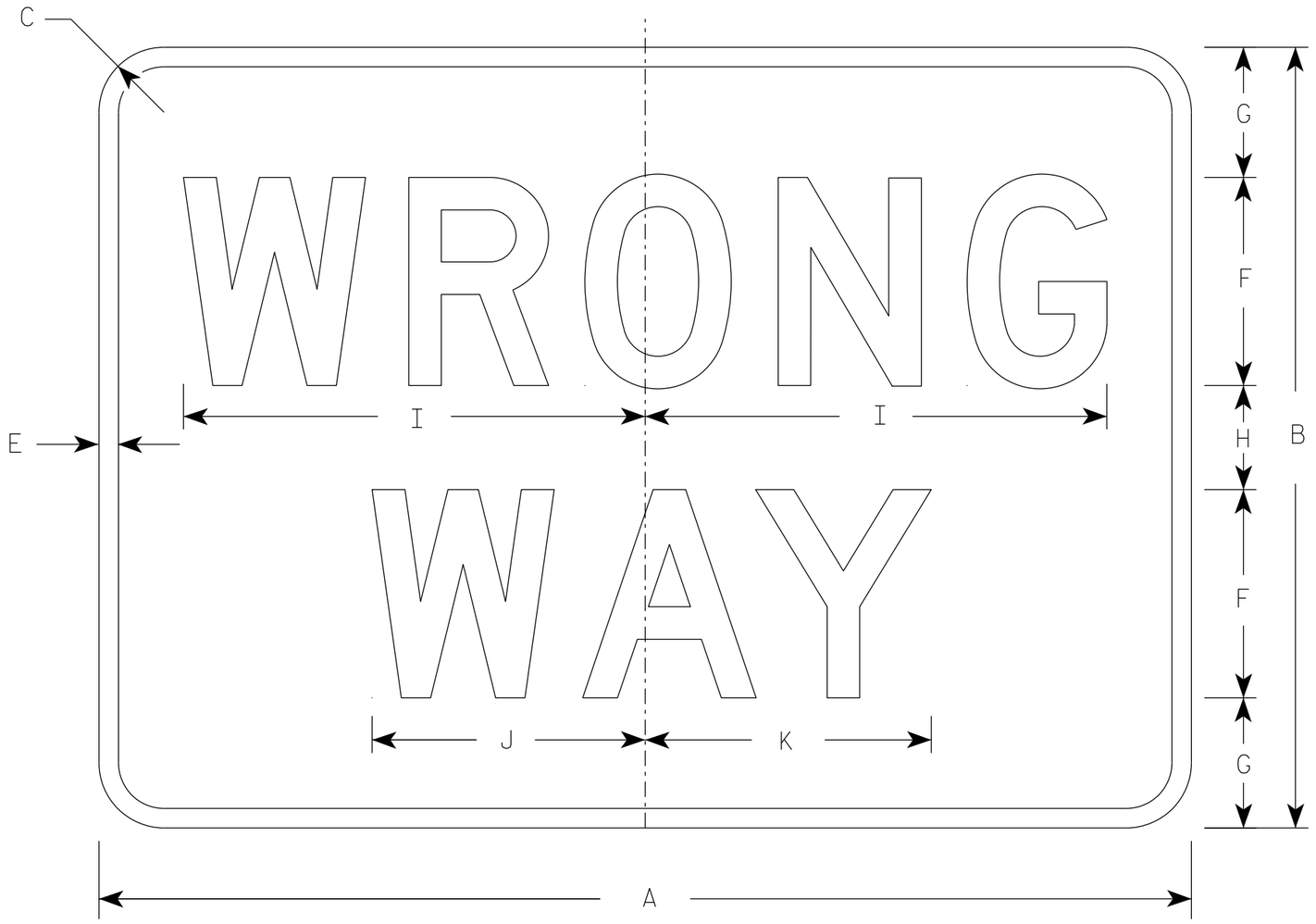
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 354 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	1 1/2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75

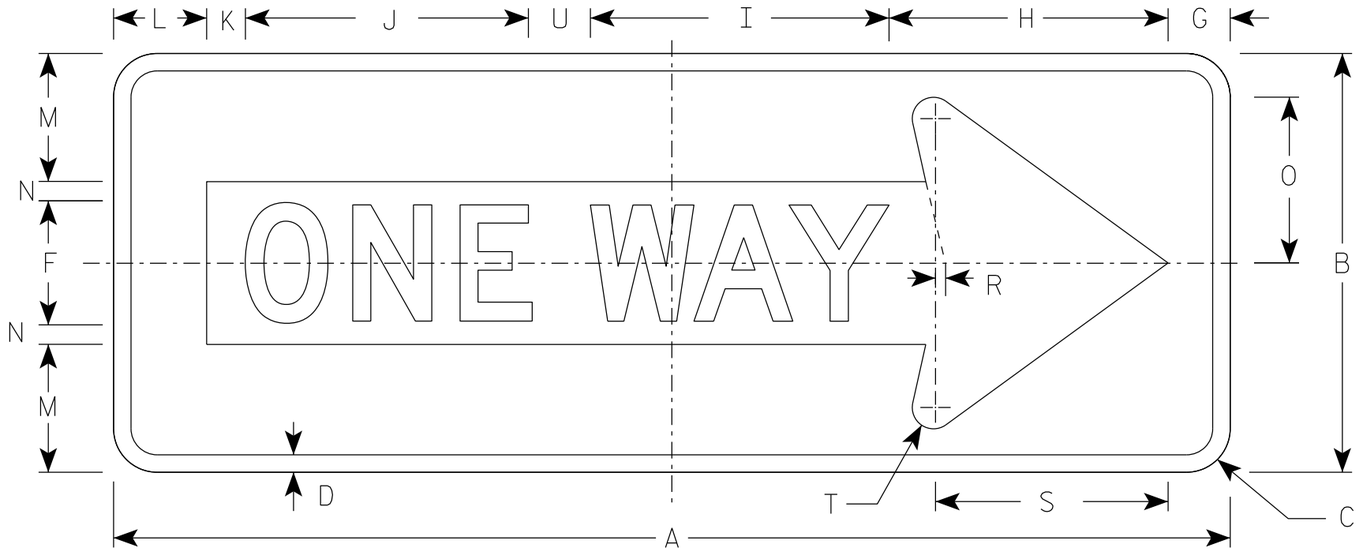
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/23 PLATE NO. R5-1A.3

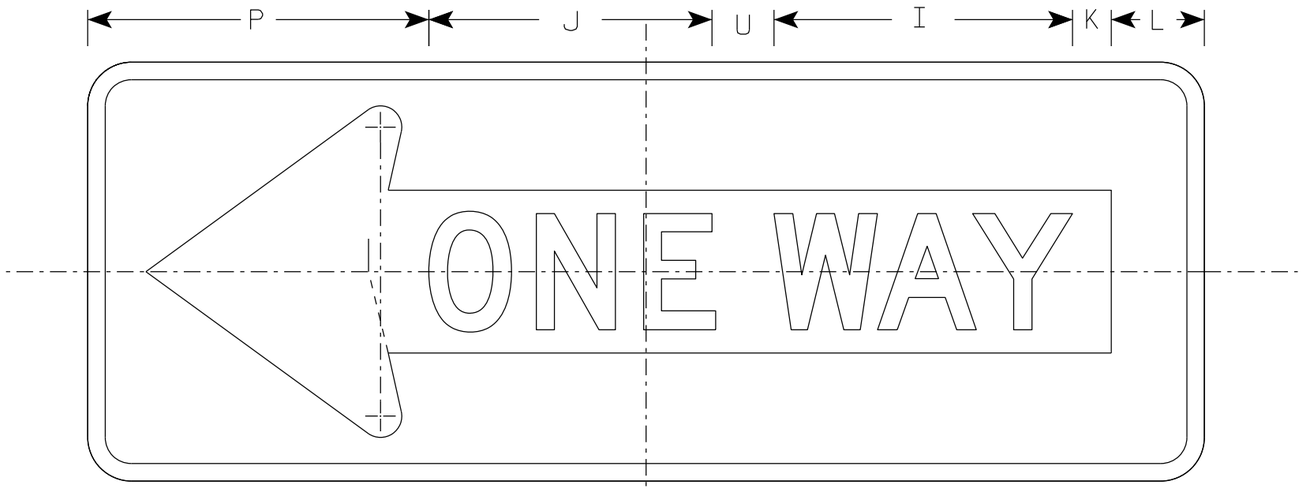
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 355 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Black
   Message - Black Legend & White Arrow & Border
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2	3/4	2						3.0
2M	48	18	1 7/8	3/4		5	2 1/2	11	13	12 1/4	2 3/4	3 1/2	5 1/2	1	7 1/8	13 1/2		1/2	10 1/8	7/8	3						6.0
3	48	18	1 7/8	3/4		5	2 1/2	11	13	12 1/4	2 3/4	3 1/2	5 1/2	1	7 1/8	13 1/2		1/2	10 1/8	7/8	3						6.0
4	48	18	1 7/8	3/4		5	2 1/2	11	13	12 1/4	2 3/4	3 1/2	5 1/2	1	7 1/8	13 1/2		1/2	10 1/8	7/8	3						6.0
5																											

STANDARD SIGN
R6-1 L&R

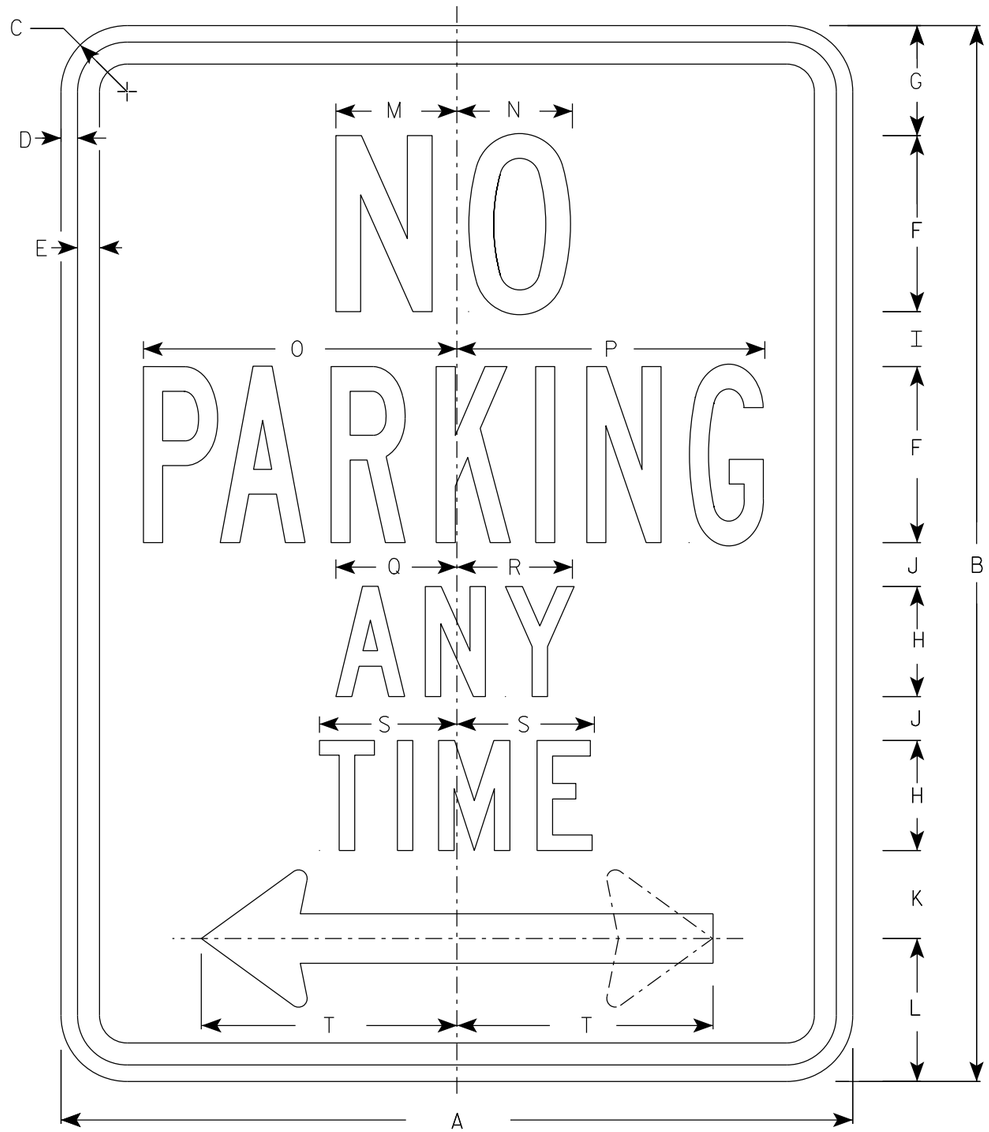
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/7/2025 PLATE NO. R6-1.5

PROJECT NO:

SHEET NO: 356 E

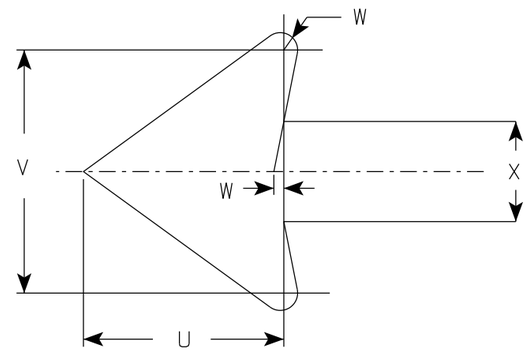


R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 4
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 ½	⅜	⅜	3	1 ⅞	2	⅞	⅝	1 ½	2 ½	2	2	4 ⅞	4 ⅞	2 ¼	2 ⅛	2 ½	3 ⅞	1 ½	1 ¾	⅛	¾			1.5
2S	18	24	1 ½	⅜	½	4	2 ½	2 ½	1 ¼	1	2	3 ¼	2 ¾	2 ⅝	7 ⅛	7	2 ¾	2 ⅝	3 ⅛	5 ⅞	2 ¼	2 ⅝	¼	1 ⅛			3.0
2M	24	30	1 ½	⅜	½	5	3	3	2	1 ¼	2 ½	4	3 ¼	3 ⅜	9 ¼	9 ¼	3 ¼	3 ¼	3 ¾	7 ¾	3	3 ½	¼	1 ½			5.0
3	24	30	1 ½	⅜	½	5	3	3	2	1 ¼	2 ½	4	3 ¼	3 ⅜	9 ¼	9 ¼	3 ¼	3 ¼	3 ¾	7 ¾	3	3 ½	¼	1 ½			5.0
4																											
5																											

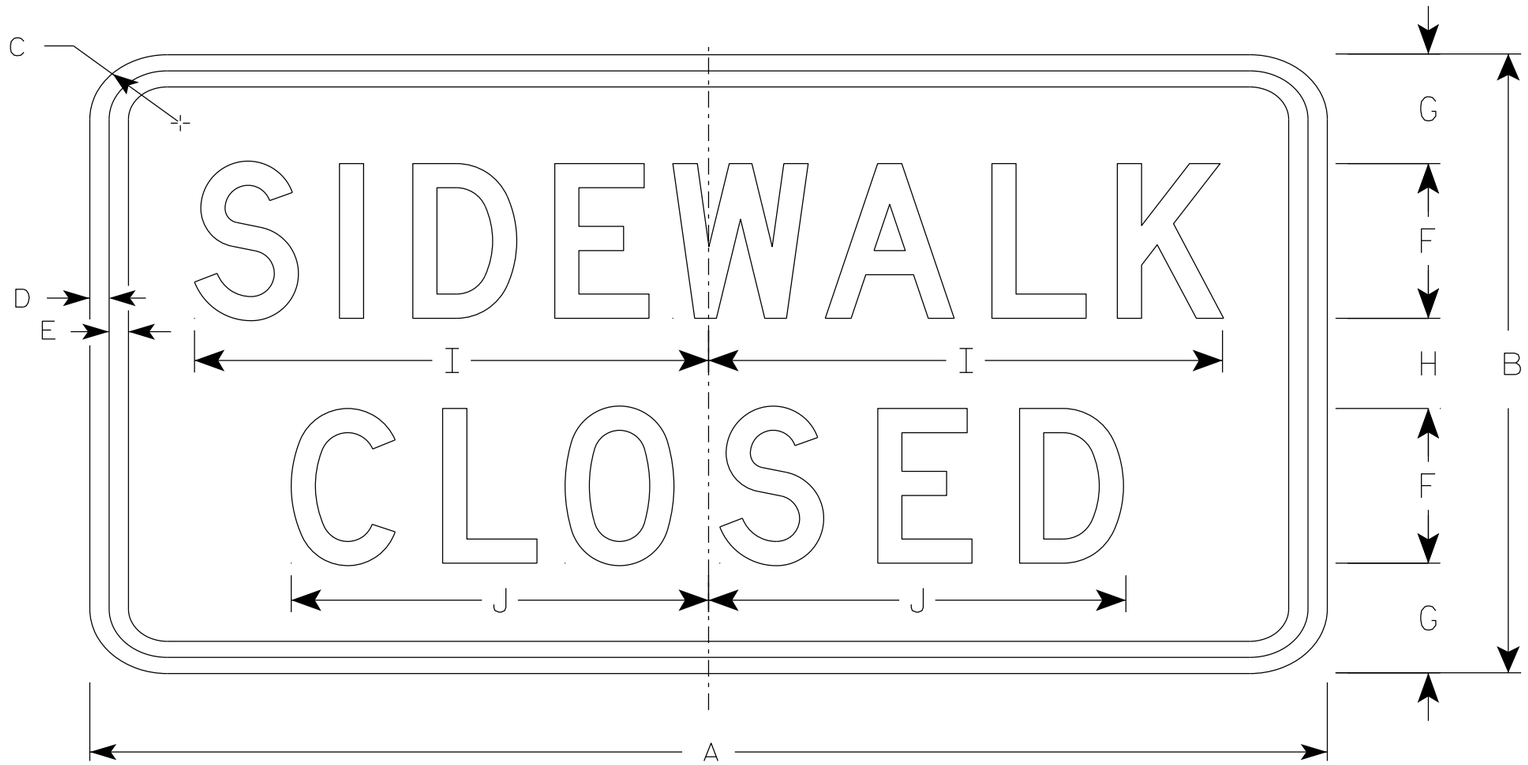
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/26/23 PLATE NO. R7-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 357 | E



R9-9

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 ½	½	½	3	2 ⅛	1 ¾	10	8 ⅛																	2.0
2M	24	12	1 ½	½	½	3	2 ⅛	1 ¾	10	8 ⅛																	2.0
3	30	18	1 ½	½	½	4	3 ½	3	12 ½	10 ¼																	3.75
4																											
5																											

STANDARD SIGN
R9-9

WISCONSIN DEPT OF TRANSPORTATION

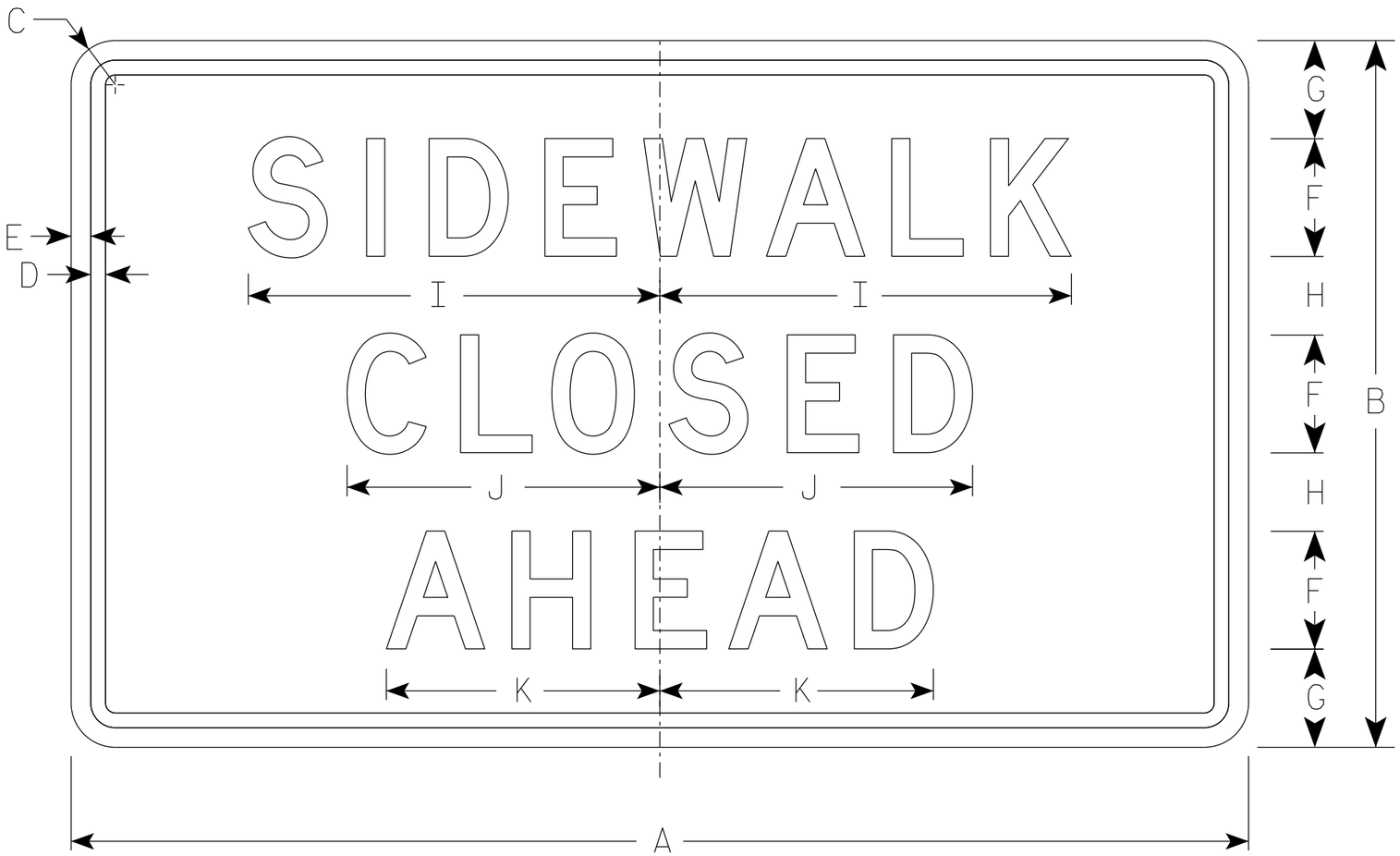
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-9.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 358 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



R9-9A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 ½	⅜	½	3	2 ½	2	10 ½	8	7																3.75
2M	30	18	1 ½	⅜	½	3	2 ½	2	10 ½	8	7																3.75
3																											
4																											
5																											

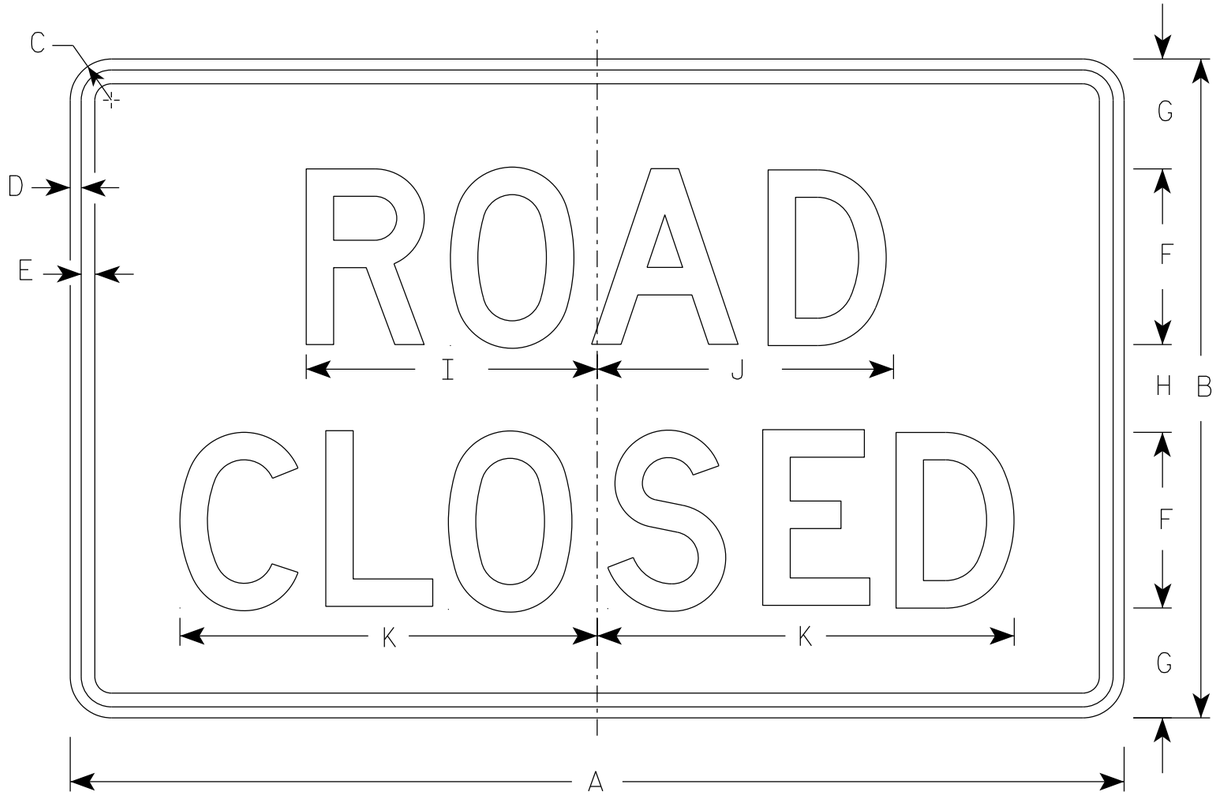
STANDARD SIGN
R9-9A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-9A.2

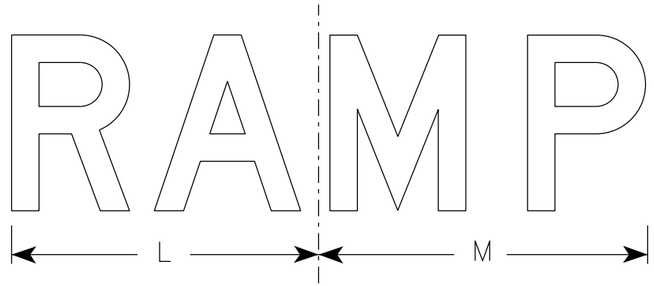
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 359 | E



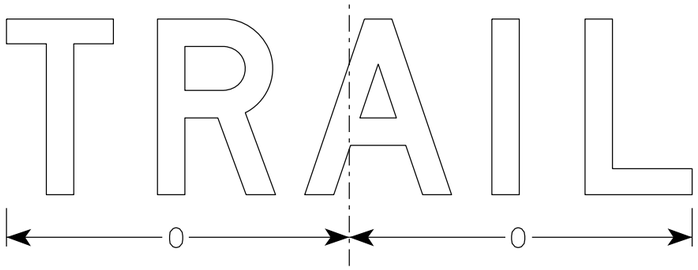
R11-2

NOTES

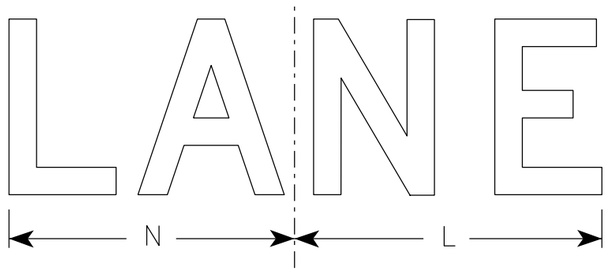
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

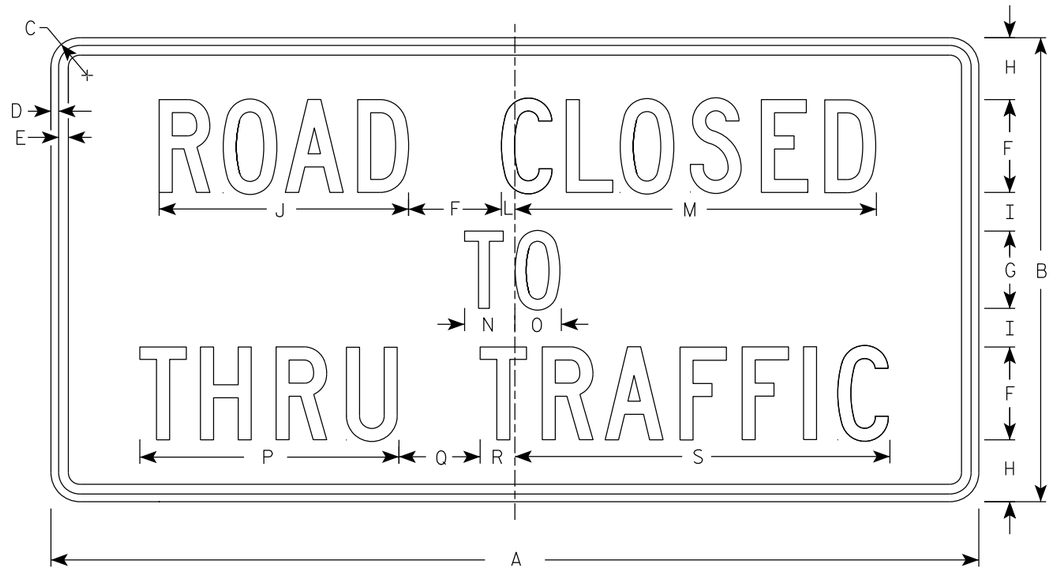
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 5-FEB 2024 2:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



R11-4

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

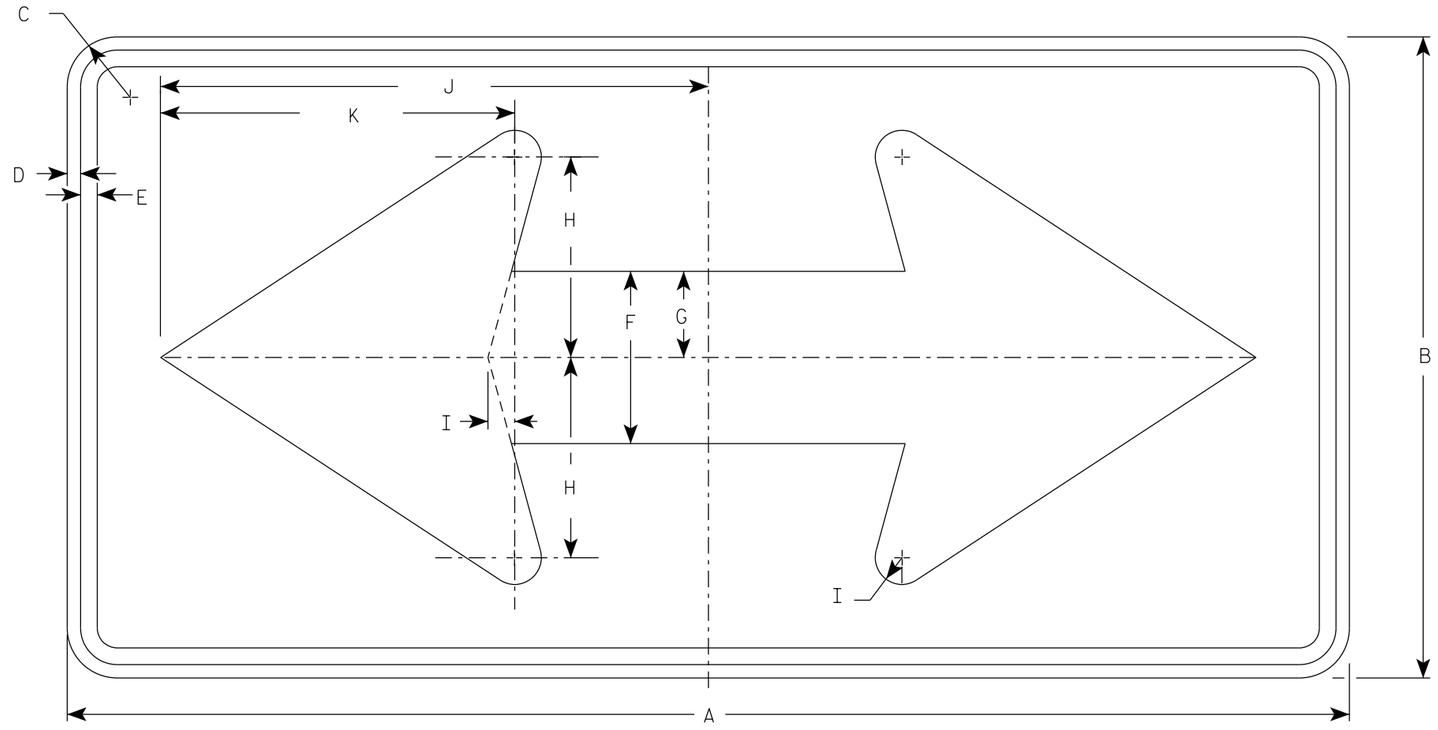
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 361 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W1-7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	3	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

STANDARD SIGN
W1-7

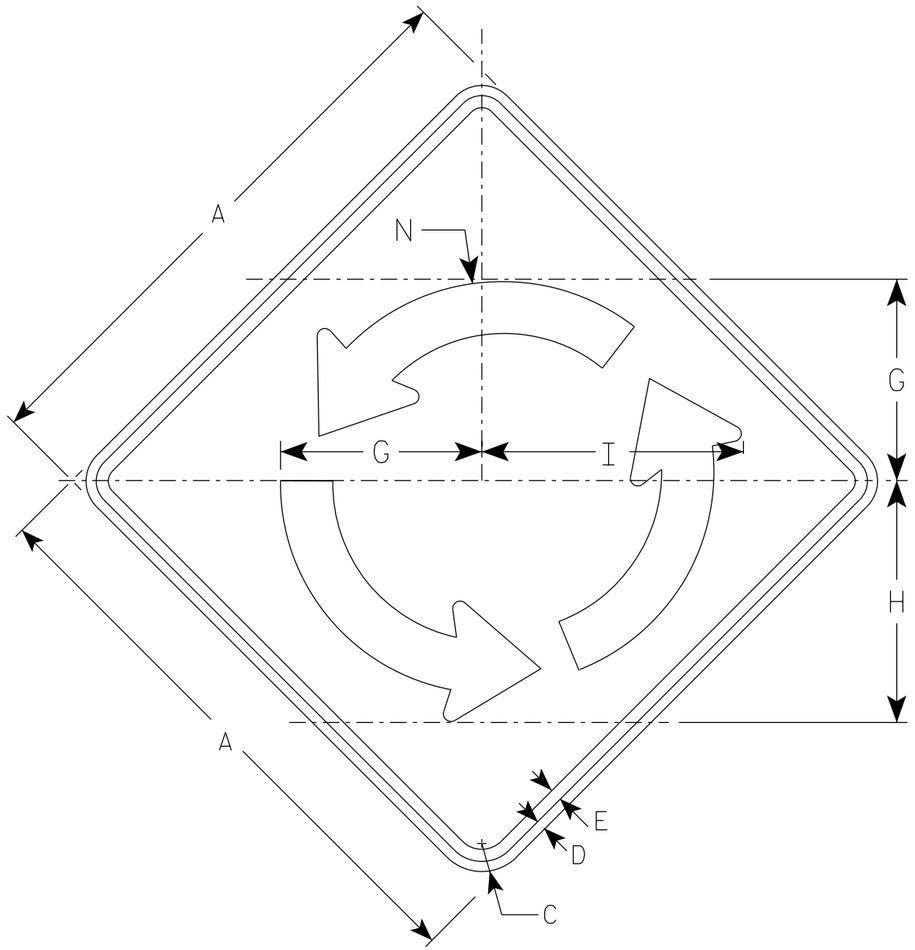
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/10/2023 PLATE NO. W1-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W17.dgn PLOT DATE : 10-MAY 2023 3:05 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

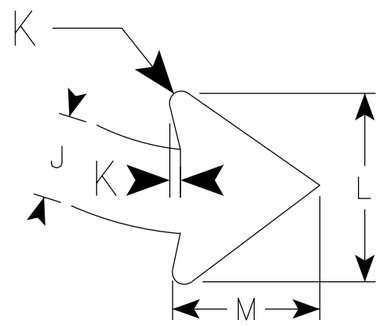


W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 7/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
2M	30		1 7/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
3	36		2 1/4	5/8	3/4		12 1/2	15	16 1/4	3 1/4	1/2	7 3/8	5 3/4	13 3/8											9.00
4	48		3	3/4	1		16 5/8	20	16 1/4	4 3/8	5/8	9 3/4	7 5/8	17 7/8											16.0
5																									

STANDARD SIGN
W2-6

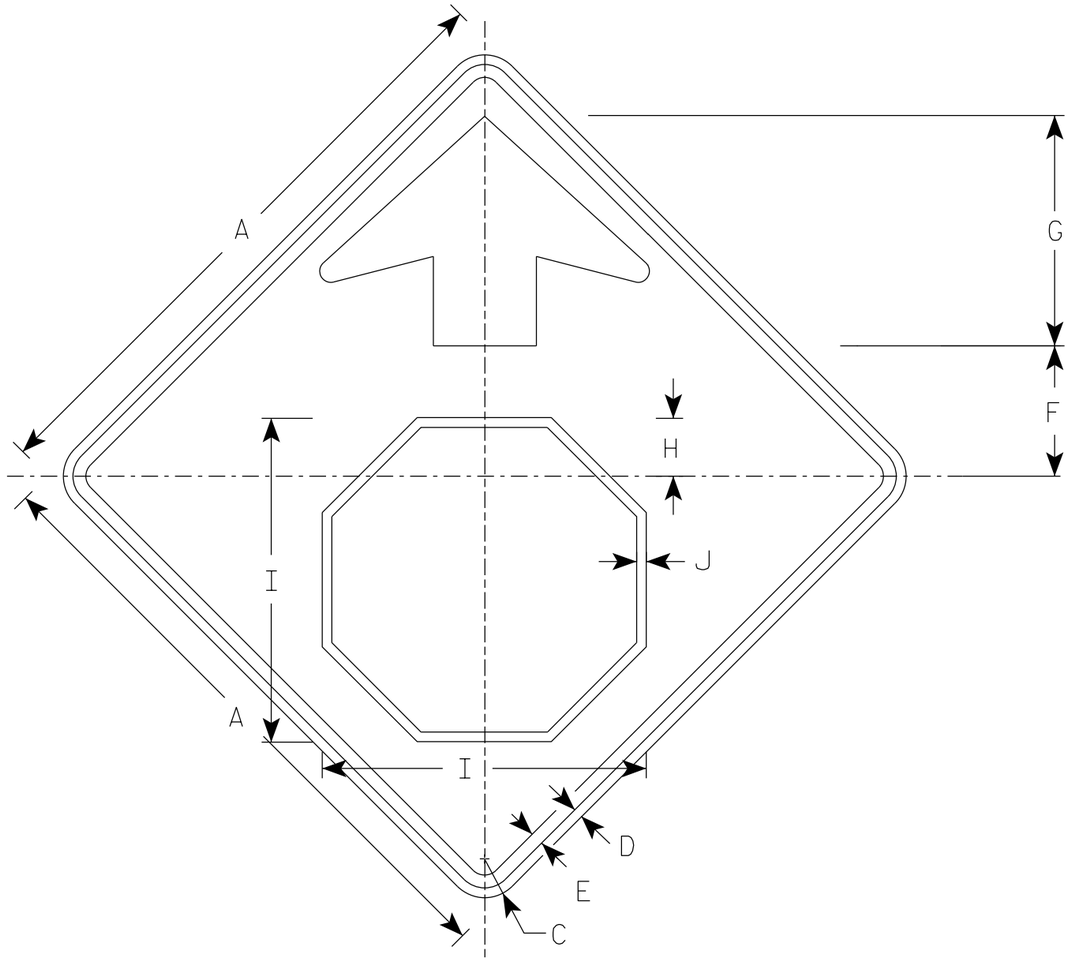
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/2023 PLATE NO. W2-6.8

PROJECT NO:

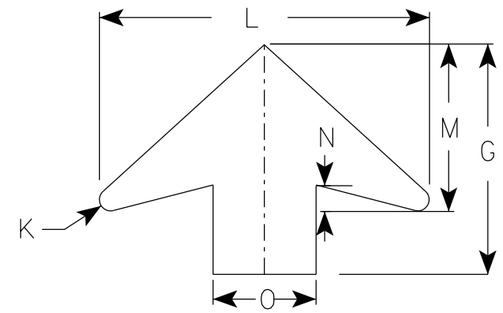
SHEET NO: 363 E



W3-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Arrow & Border - Black
   Stop Symbol - White Border on Red Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

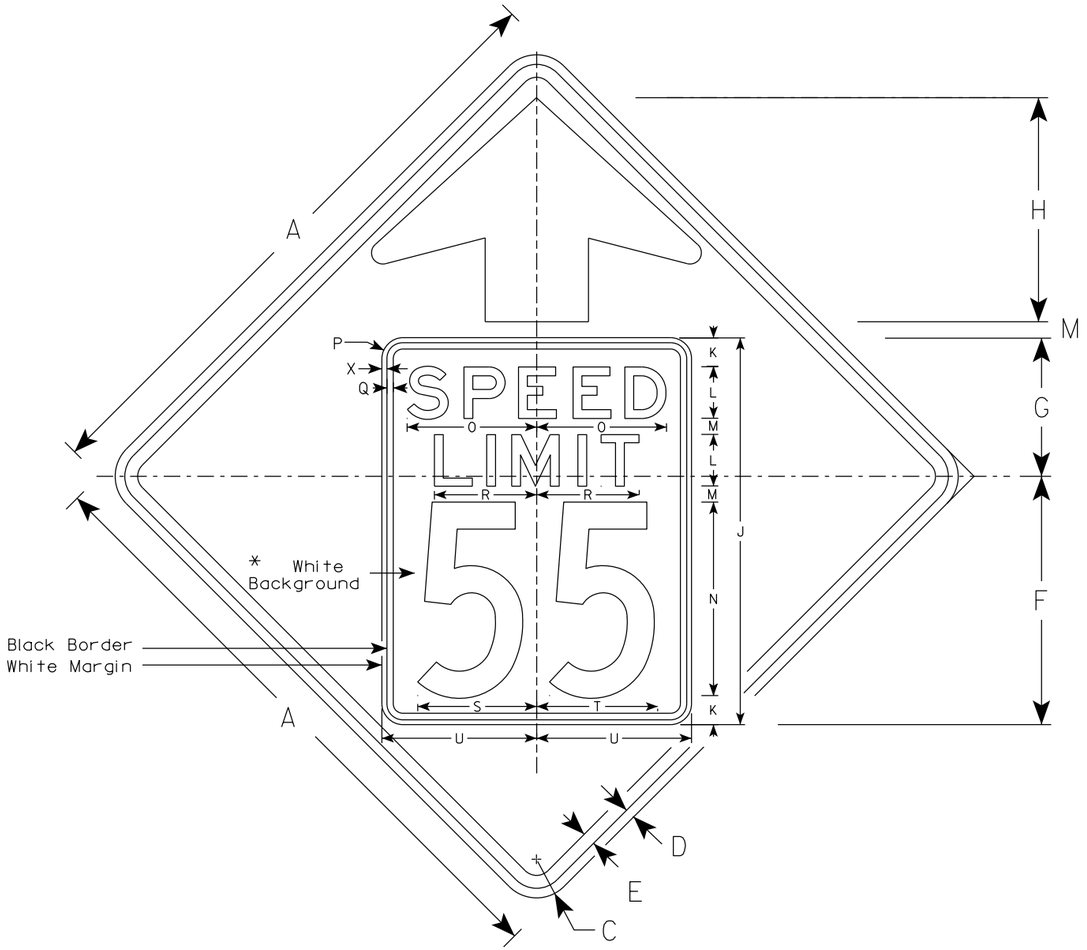
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/2023 PLATE NO. W3-1.13

PROJECT NO:

SHEET NO: 364 E

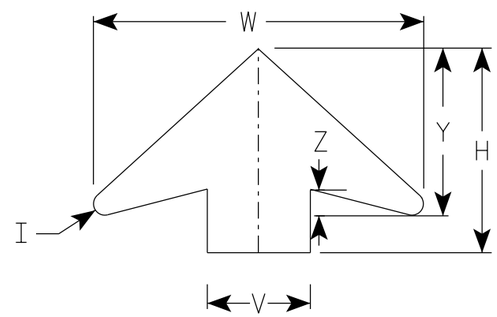


W3-5

NOTES

1. Sign is Type II - See Note 2 for Sheeting Type
2. Color: *
   Background - Yellow* (Type F Reflective)
   Message - Black
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN

W3-5

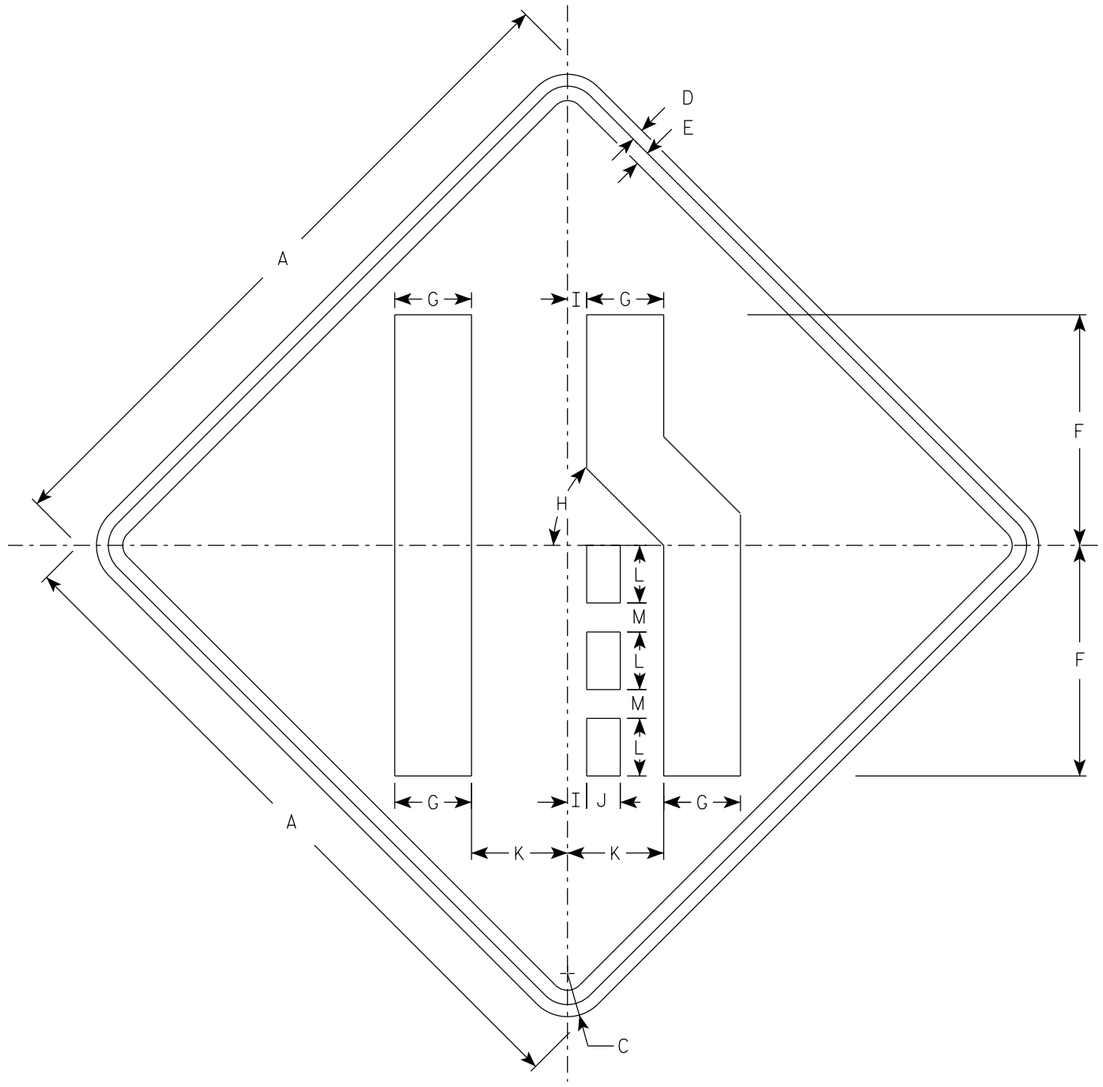
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/30/2023 PLATE NO. W3-5.7

PROJECT NO:

SHEET NO: 365 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W4-2L is the same as W4-2R except the symbolis reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/31/2023 PLATE NO. W4-2.15

PROJECT NO:

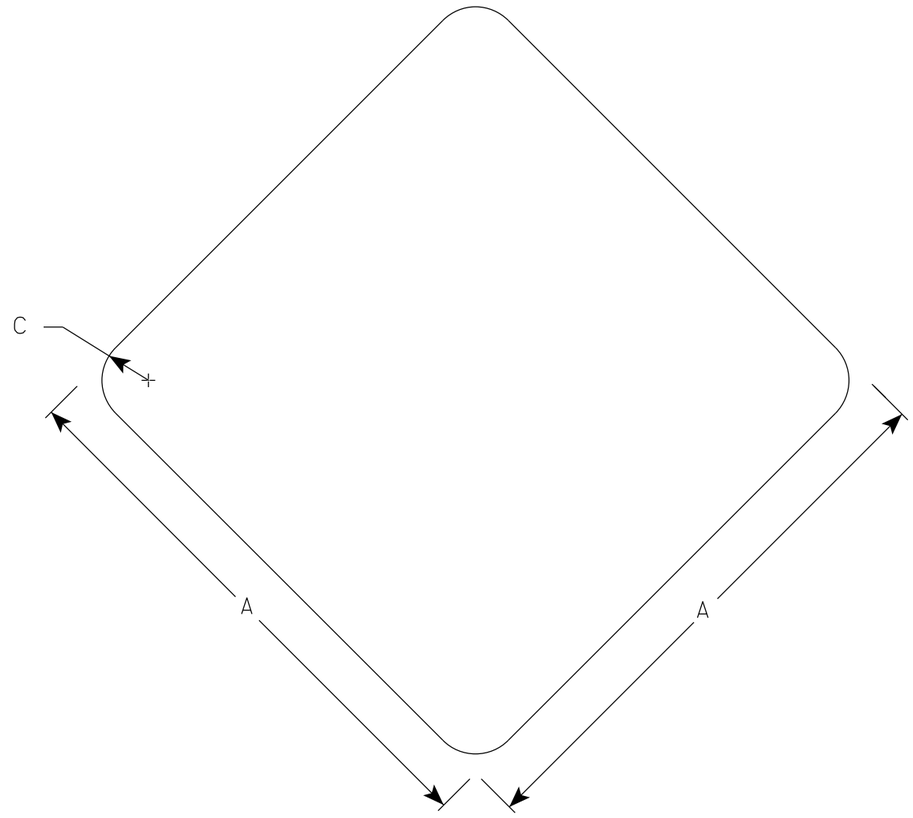
SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W42.DGN PLOT DATE : 31-AUG 2023 11:15 PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

7

7



W5-54

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12		1 ½																								1.0
2S	18		1 ½																								2.25
2M	18		1 ½																								2.25
3																											
4																											
5																											

STANDARD SIGN
W5-54

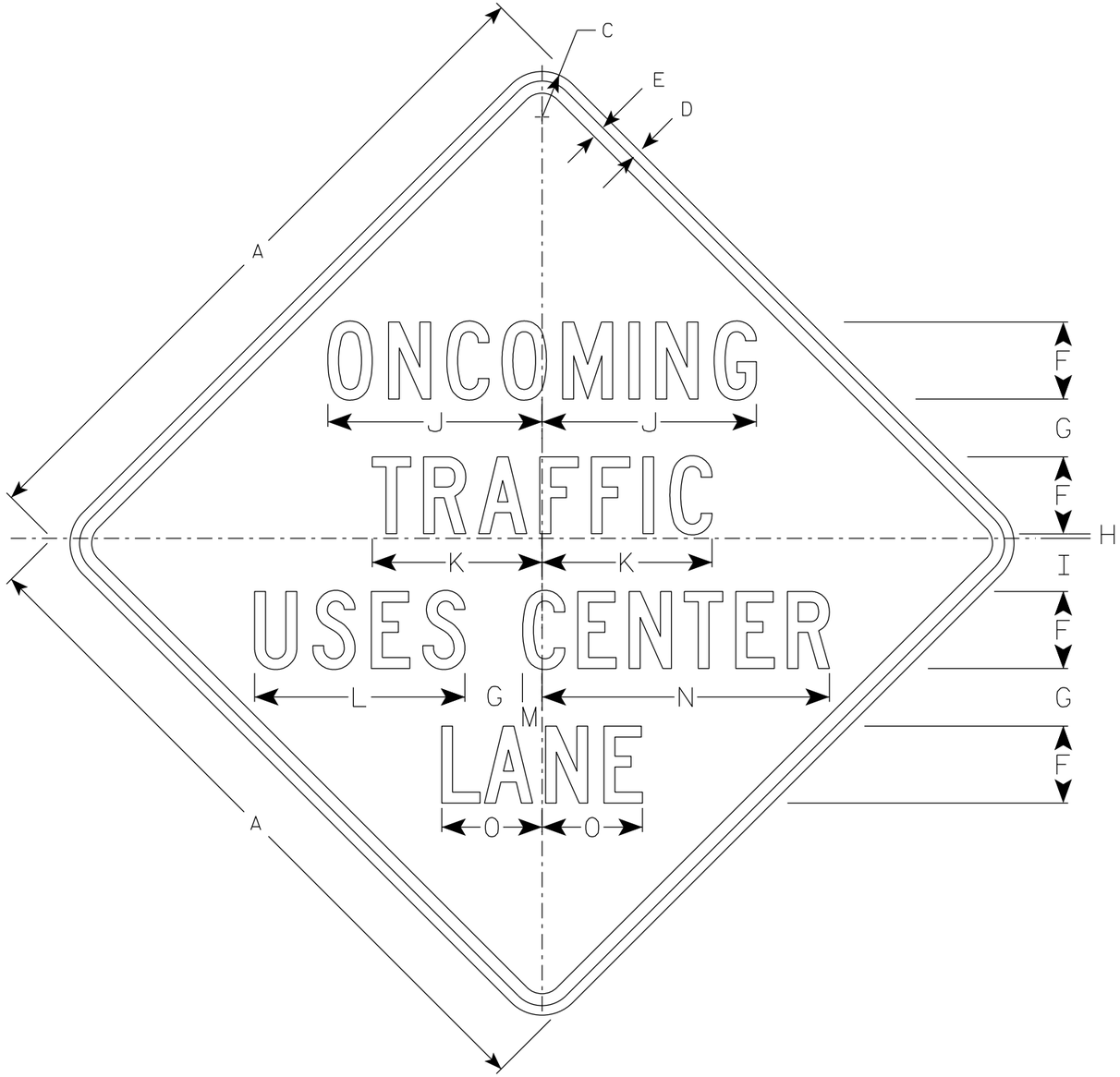
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/5/2024 PLATE NO. W5-54.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_W554.dgn PLOT DATE : 5-MARCH 2024 11:55 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W6-60

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C

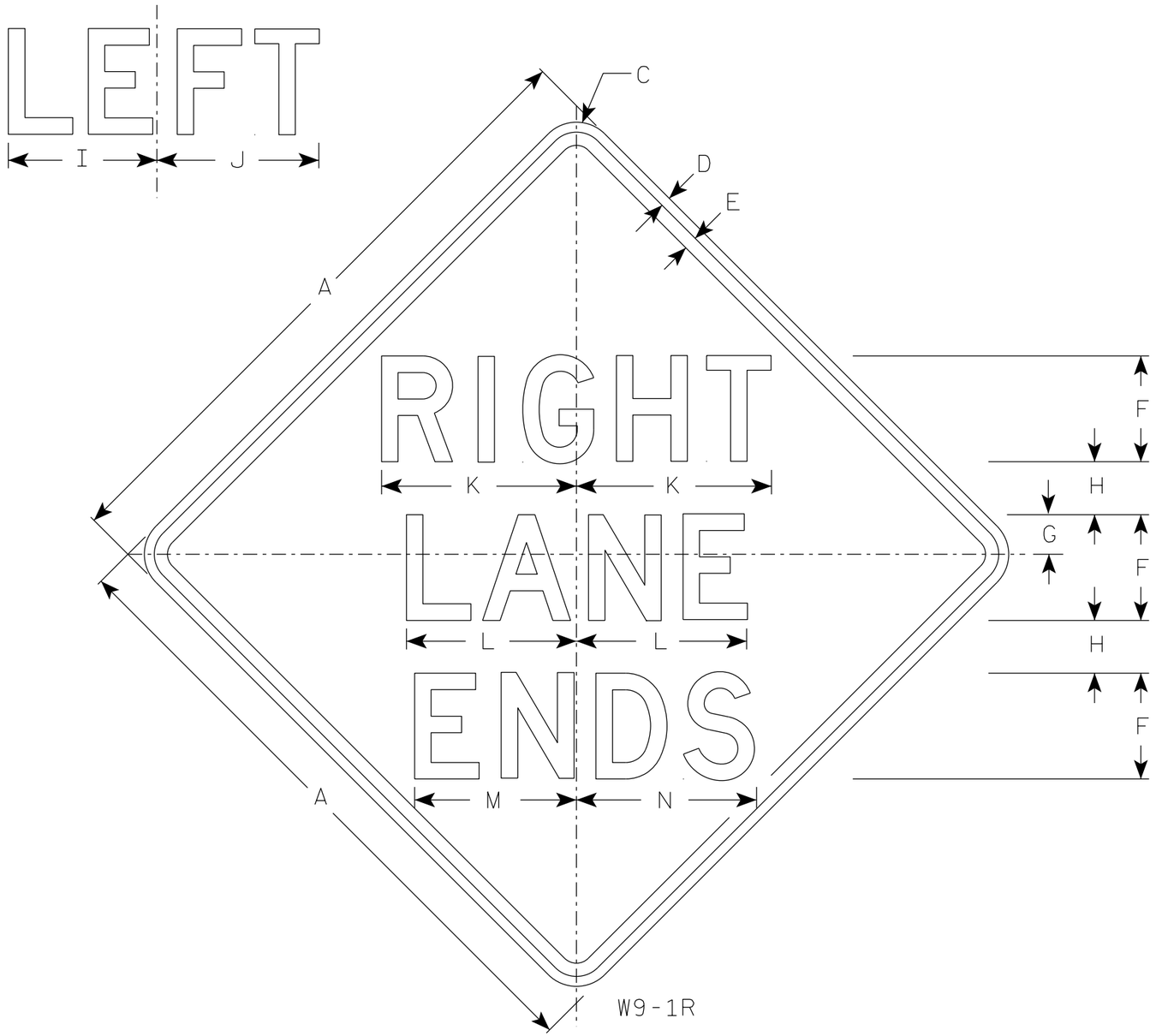
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		2 1/4	1/2	5/8	4	3	1/4	2 3/4	11 1/8	8 7/8	10 7/8	1	14 7/8	5 1/4												9.0
2M	36		2 1/4	1/2	5/8	4	3	1/4	2 3/4	11 1/8	8 7/8	10 7/8	1	14 7/8	5 1/4												9.0
3																											
4																											
5																											

STANDARD SIGN
W6-60

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 9/6/2023 PLATE NO. W6-60.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 368 | E



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. W9-1L same as W9-1R except the word Left replaces Right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		2 1/4	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		2 1/4	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		2 1/4	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		2 1/4	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		3	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/9/2023 PLATE NO. W9-1.9

PROJECT NO:

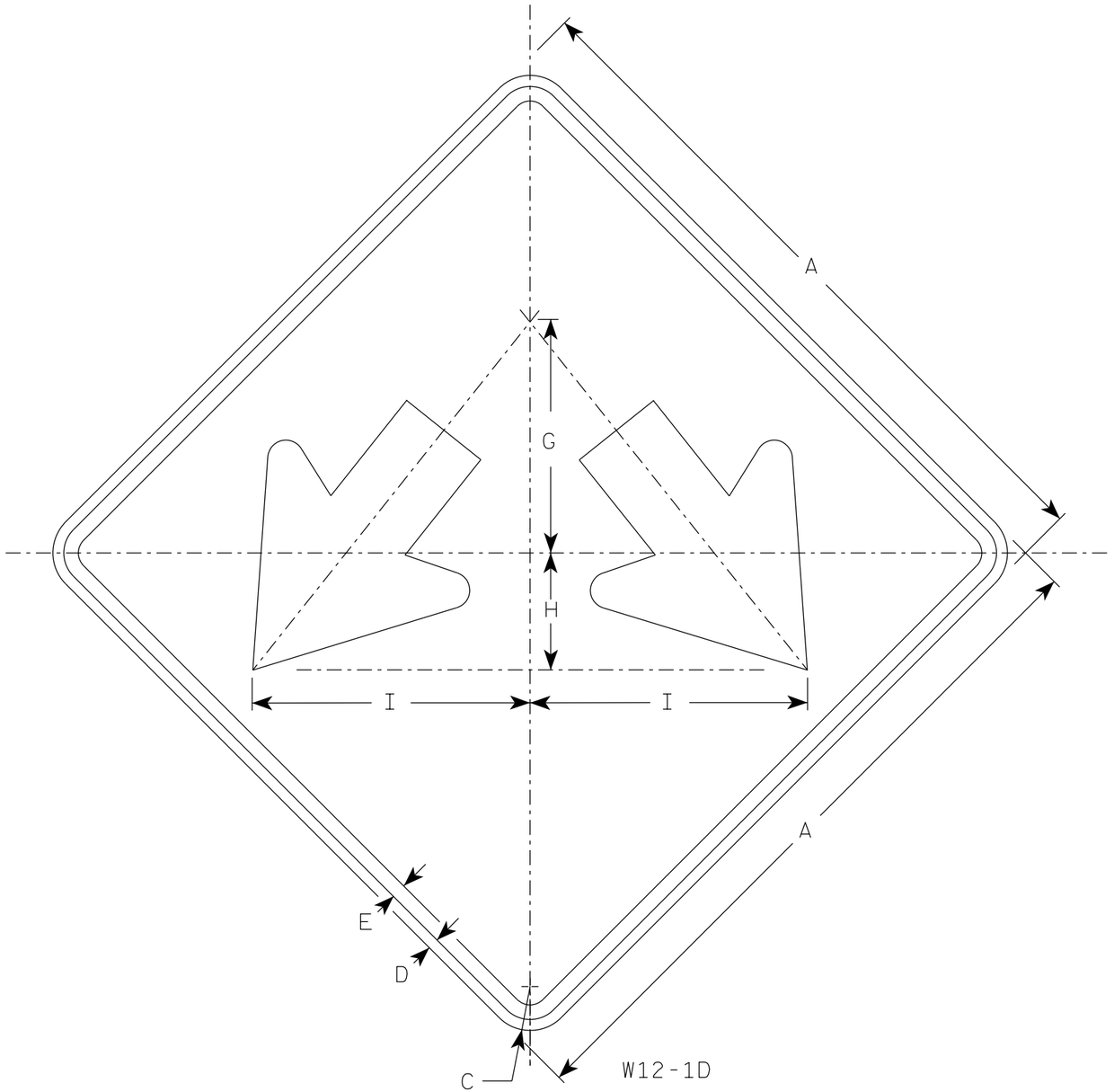
SHEET NO: 369 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W91.dgn PLOT DATE : 9-NOV 2023 1:03 PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

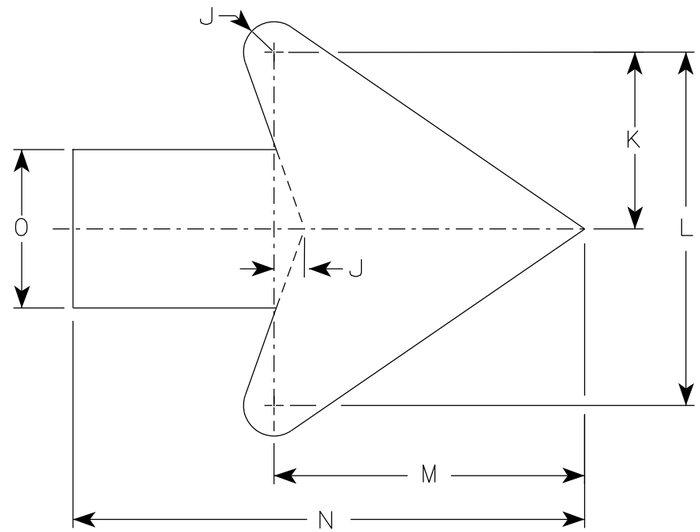
7

7



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq sq. ft.
1																											
2S	24		1 1/2	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/2	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 7/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		2 1/4	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		3	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

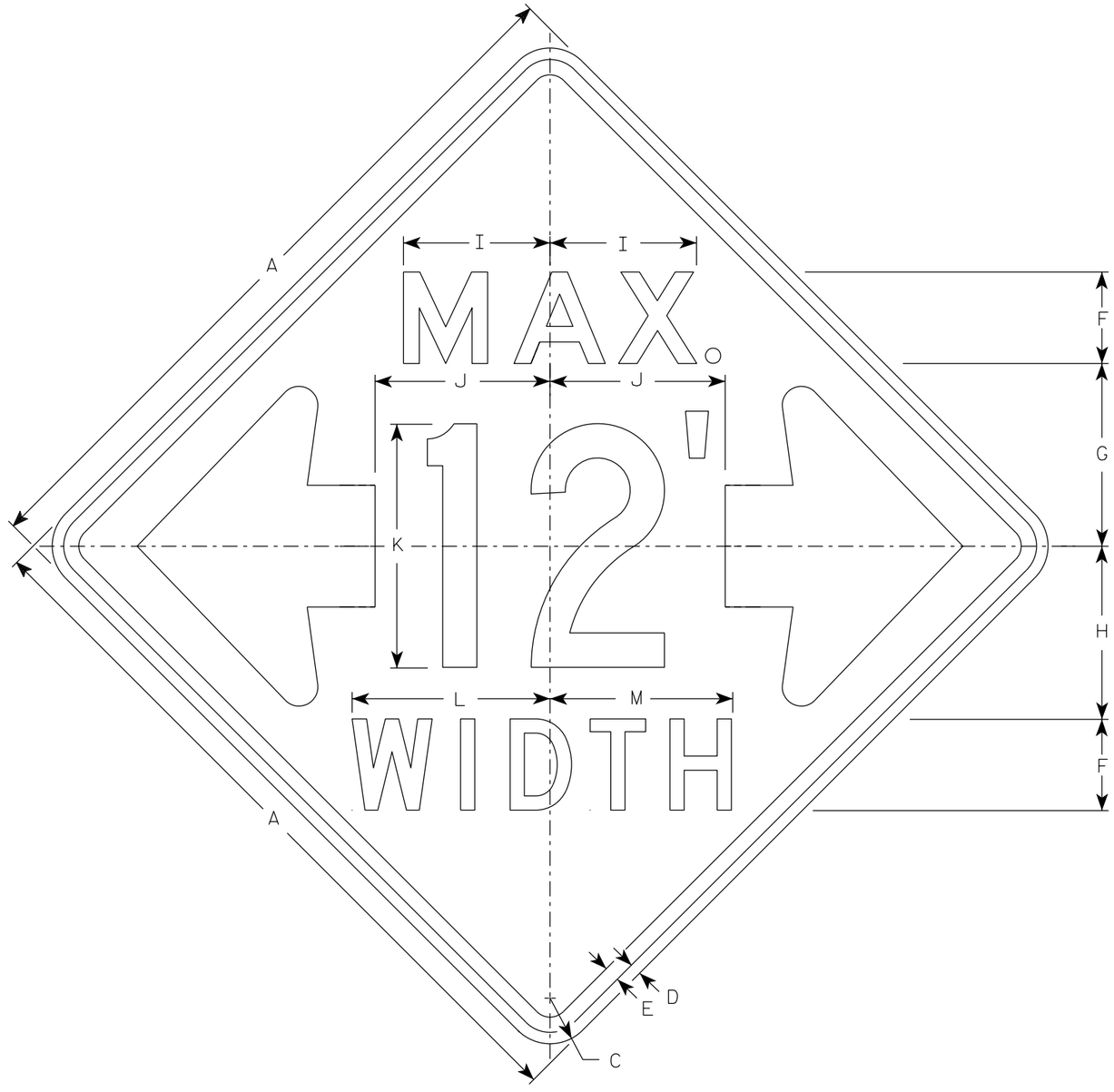
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/30/2023 PLATE NO. W12-1D.16

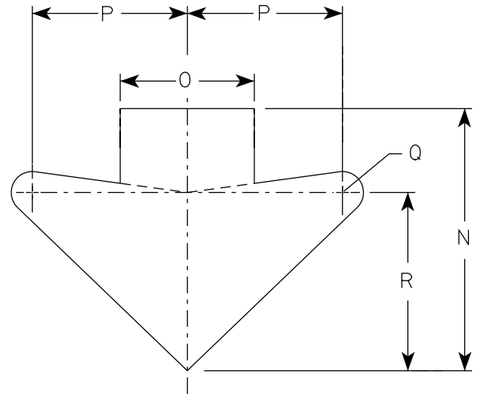
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 370	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. The top line is series E, the numerals are series C, and the bottom line is series D.
5. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		3	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		3	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

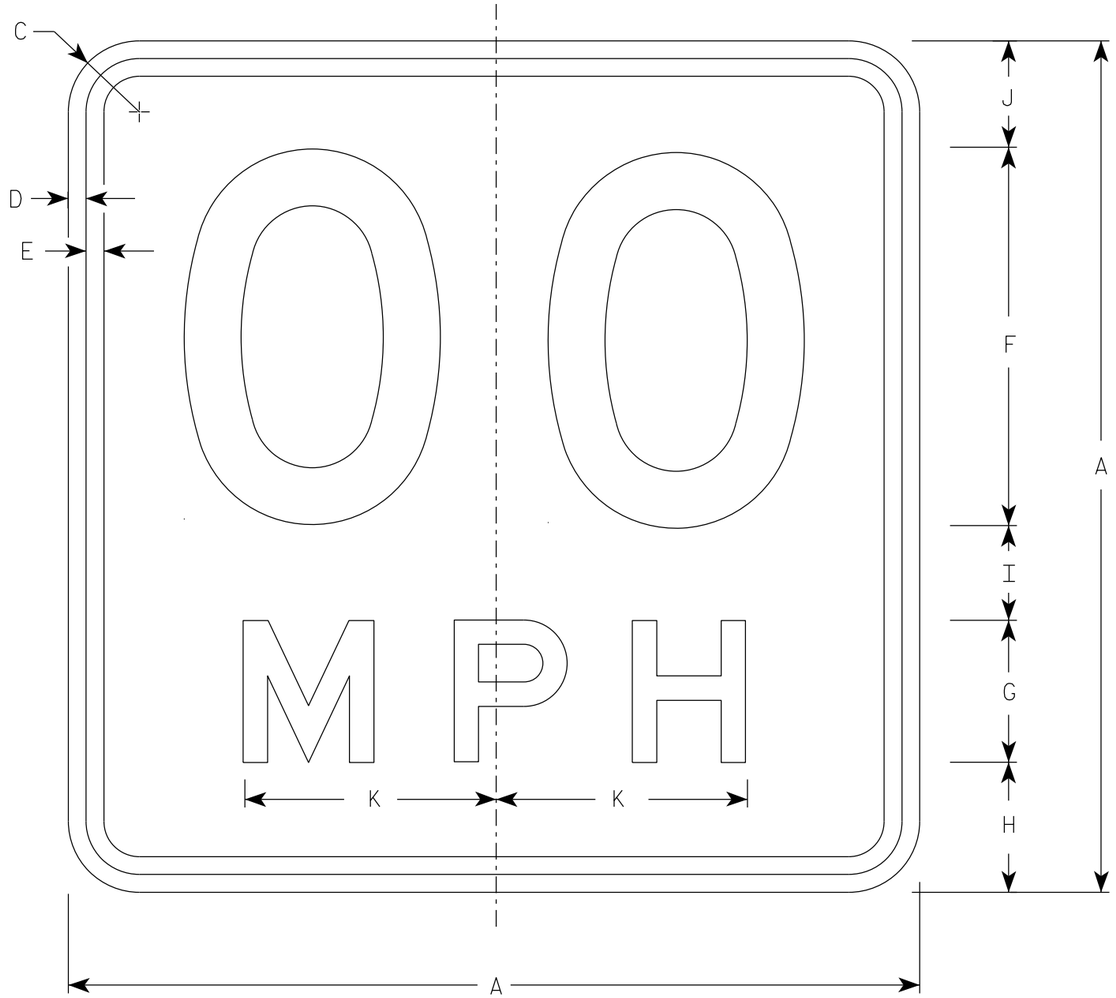
STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/2024 PLATE NO. W12-52.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 371 | E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 5
4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
5. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

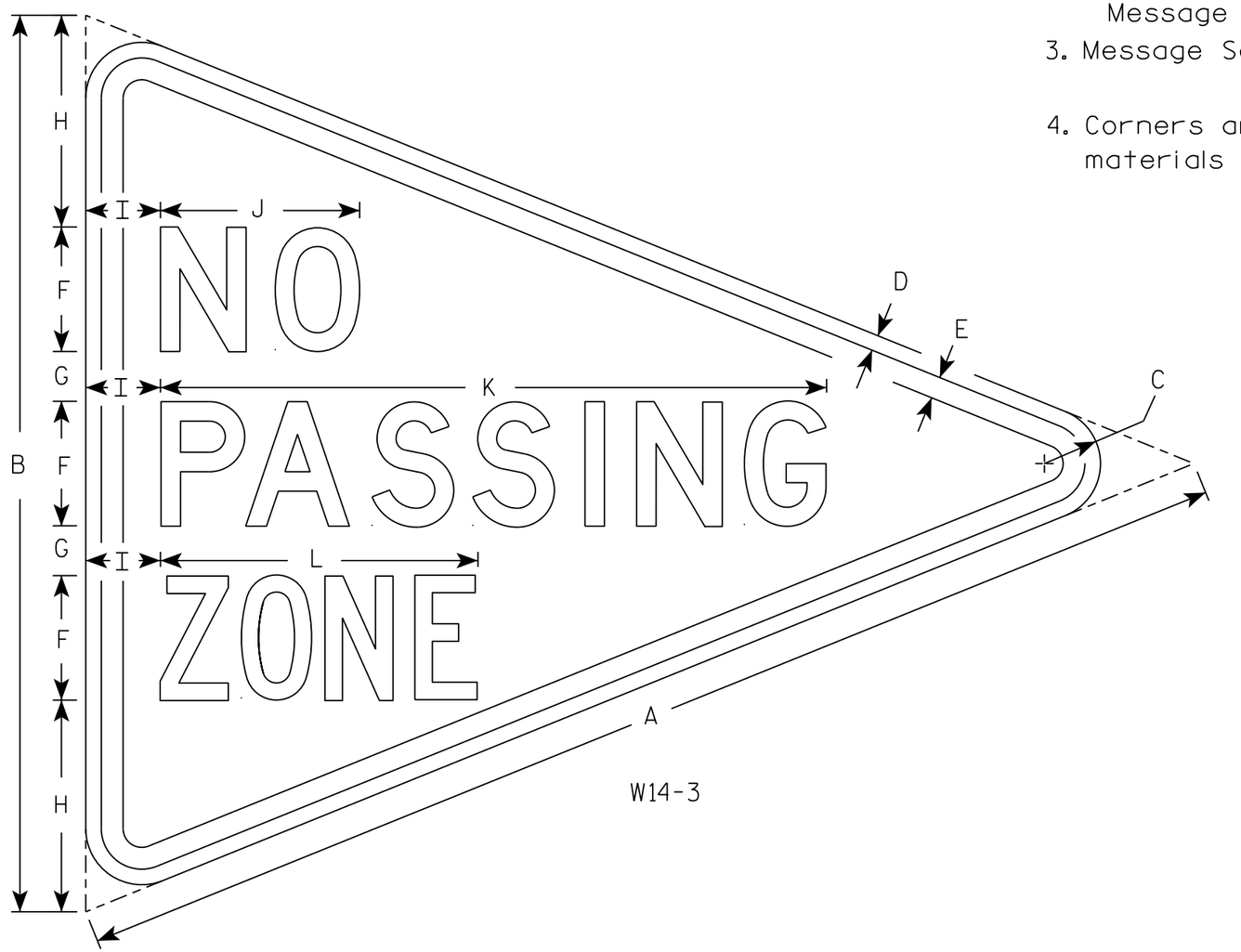
DATE 1/8/2024 PLATE NO. W13-1.17

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W131.dgn PLOT DATE : 8-Jan 2024 11:07 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

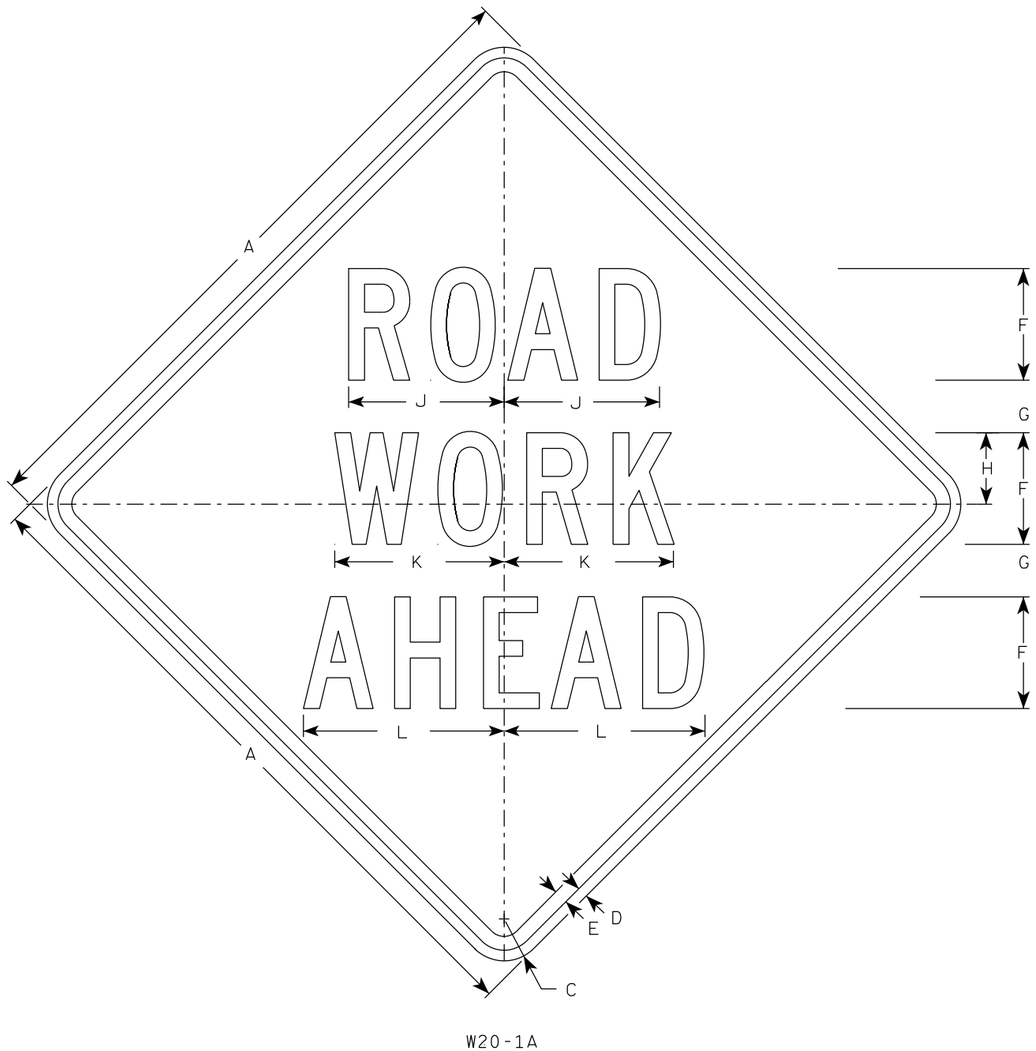
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

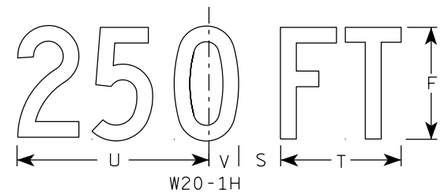
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

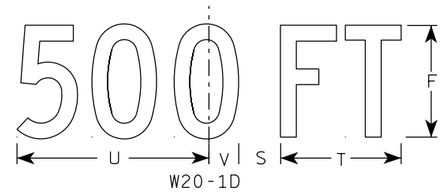
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 373	E



W20-1A



W20-1H



W20-1D



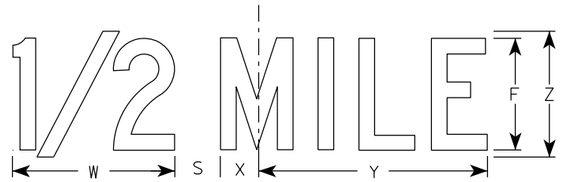
W20-1C



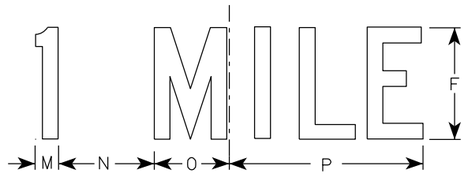
W20-1B

NOTES

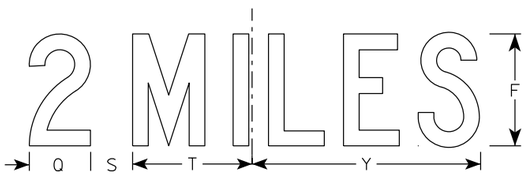
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

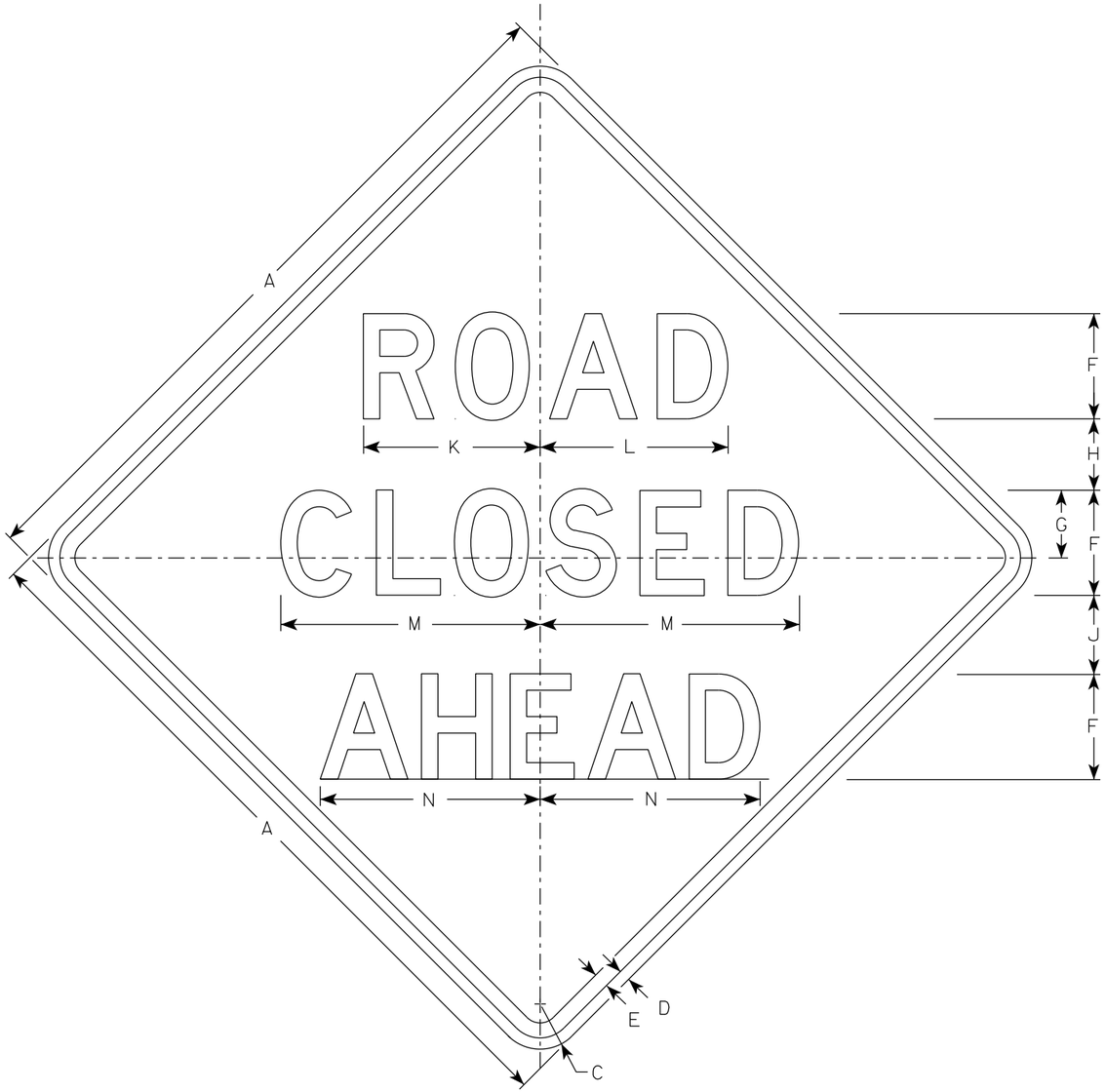
SHEET NO: 374 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 10-JAN 2024 11:16 PLOT BY : dotc4c

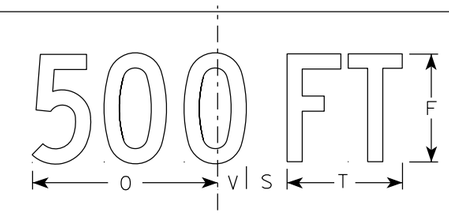
WISDOT/CADDS SHEET 42

7

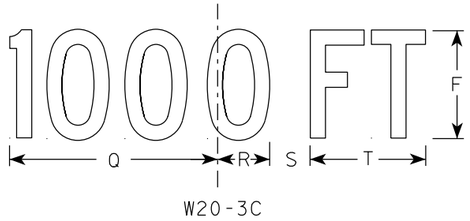
7



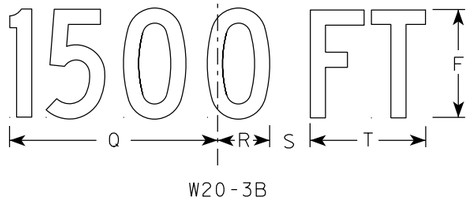
W20-3A



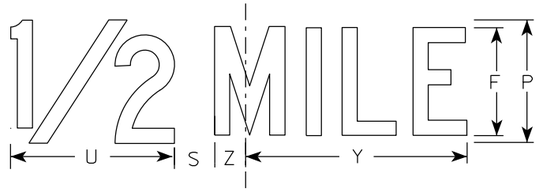
W20-3D



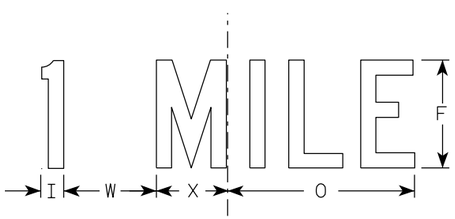
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

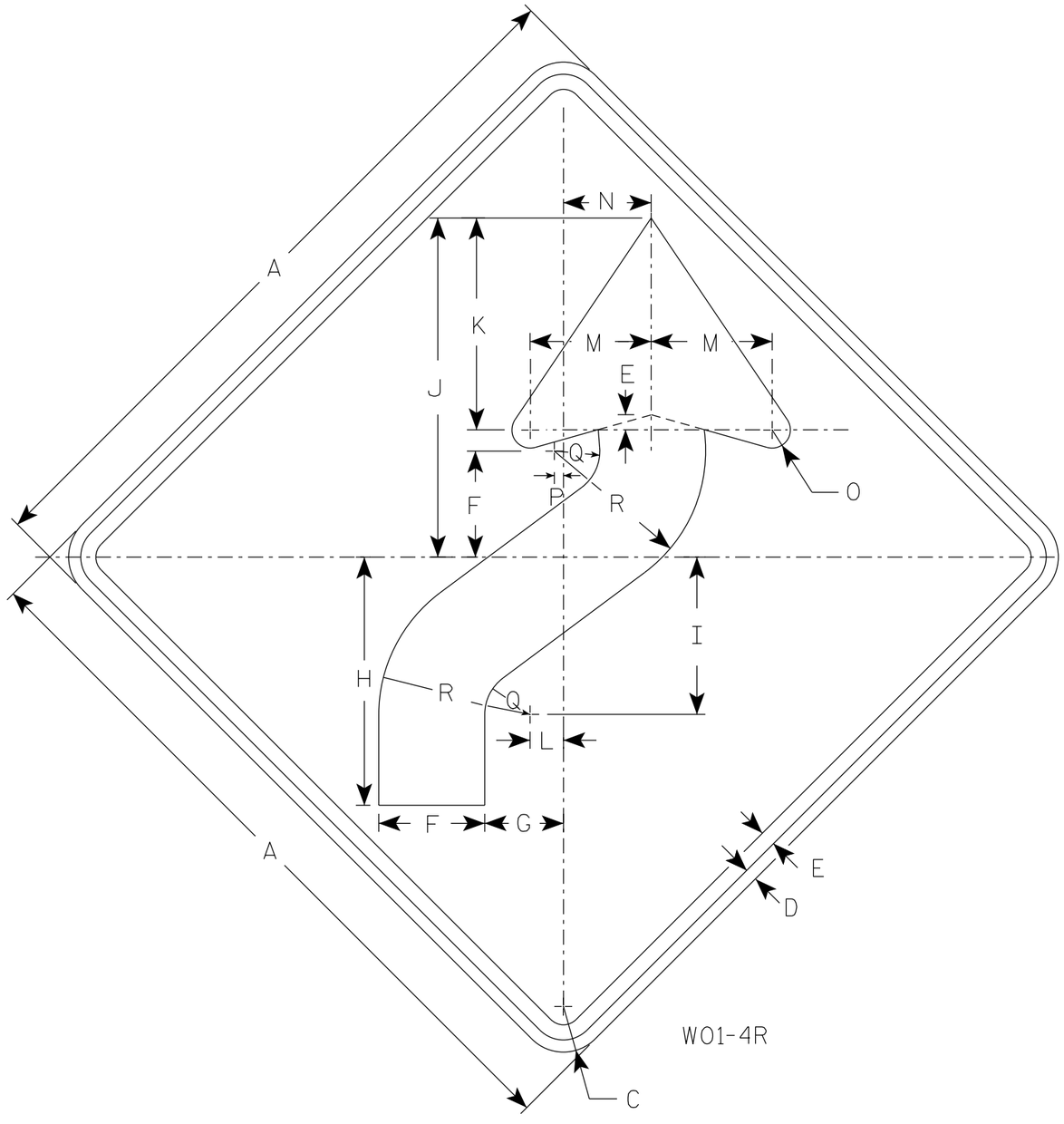
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN PLOT DATE : 10-JAN 2024 12:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7



WO1-4R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

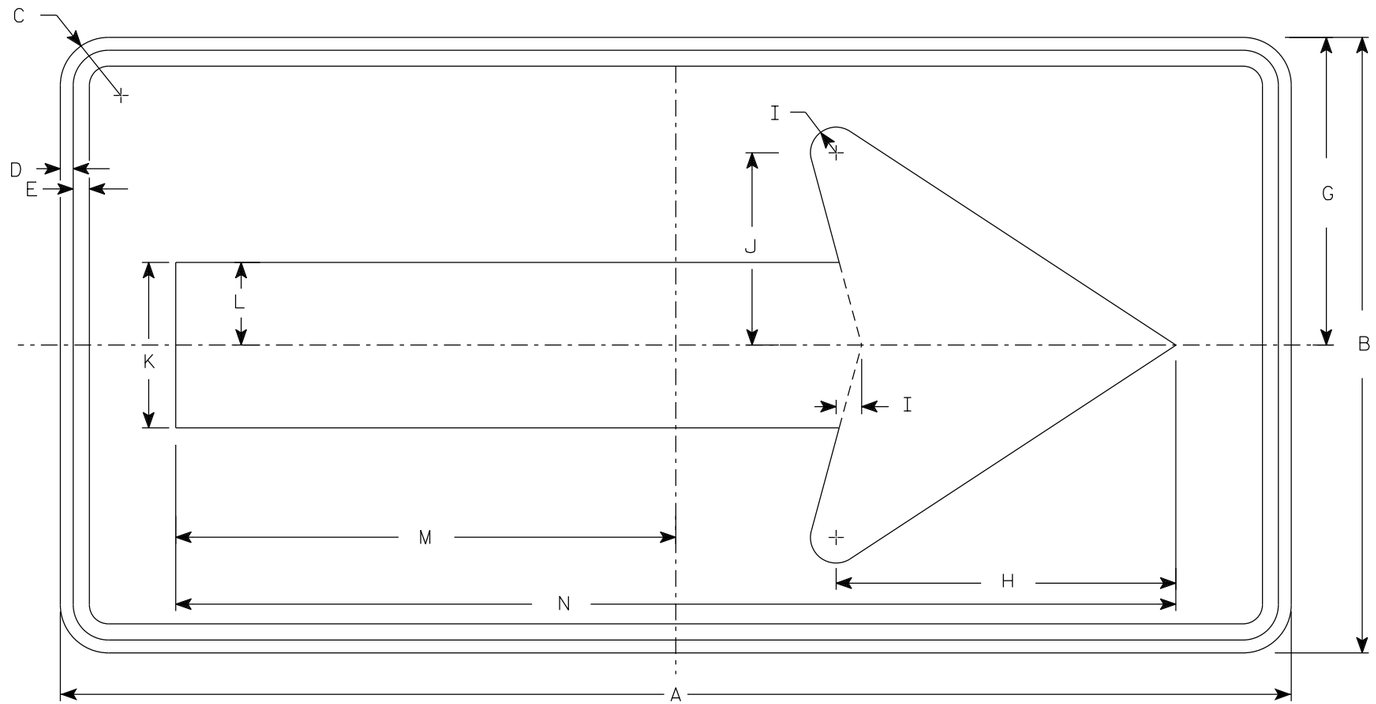
STANDARD SIGN
WO1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 376 E



WO1-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

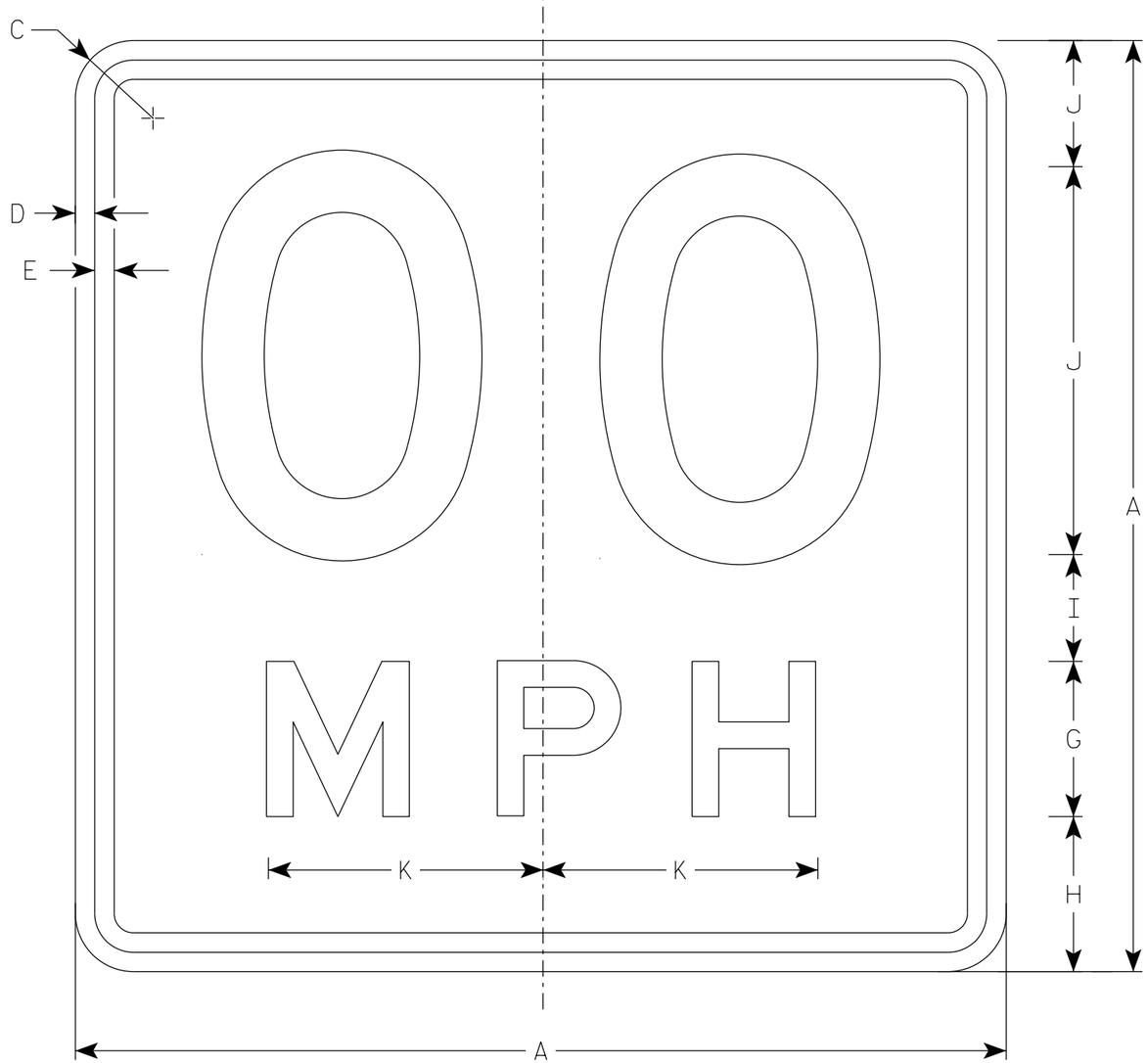
DATE 1/24/2024 PLATE NO. WO1-6.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\WO16.dgn PLOT DATE : 24-JAN 2024 1:12 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7



W013-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.0
2S	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
2M	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
3	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
4	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
5	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0

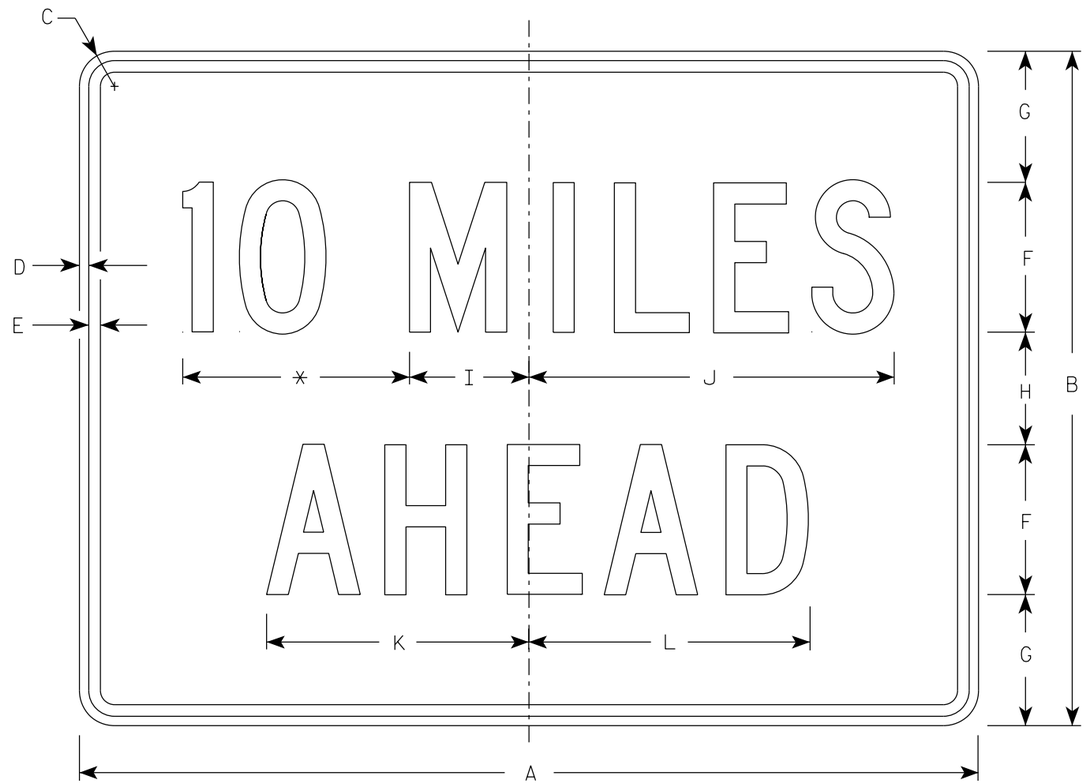
STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

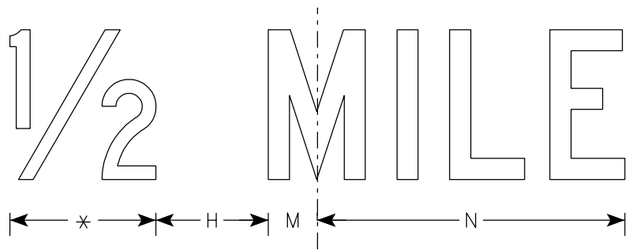
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W013-1.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/2	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

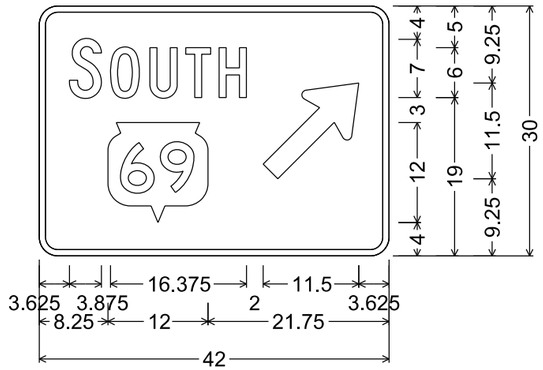
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W057-52.3

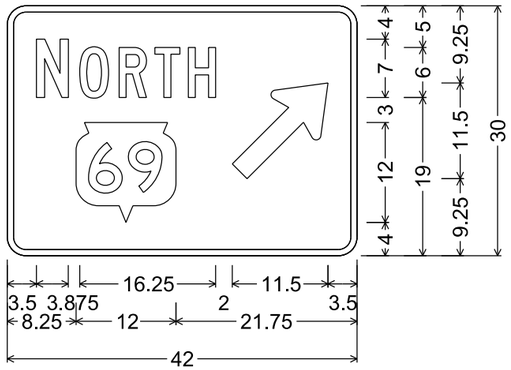
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 379	E

NOTES

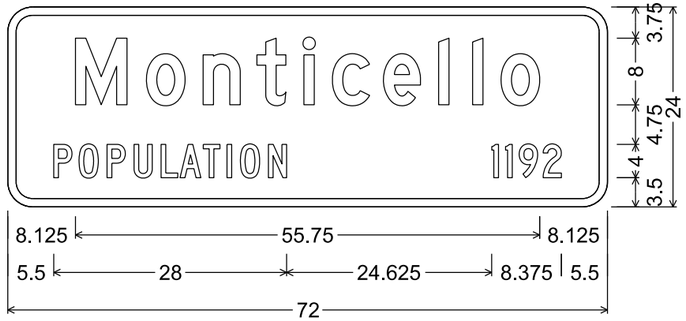
1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C except as noted



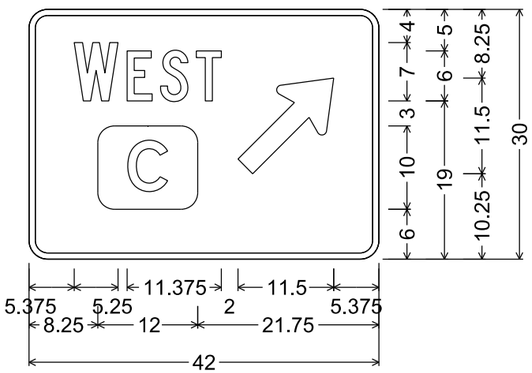
D1-67; 2.250" Radius, 0.750" Border



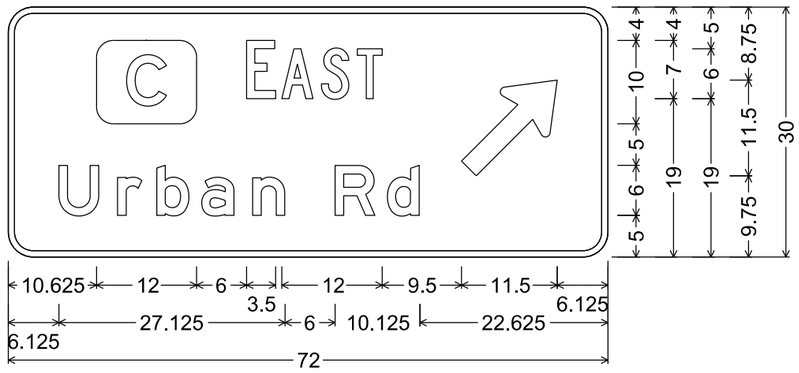
D1-67; 2.250" Radius, 0.750" Border



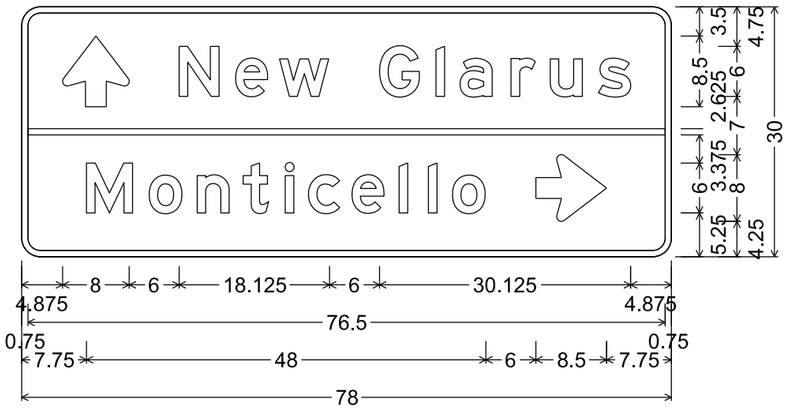
I2-3; 3.000" Radius, 1.000" Border
"Monticello", D; "POPULATION", C; "1192", C



D1-67; 2.250" Radius, 0.750" Border



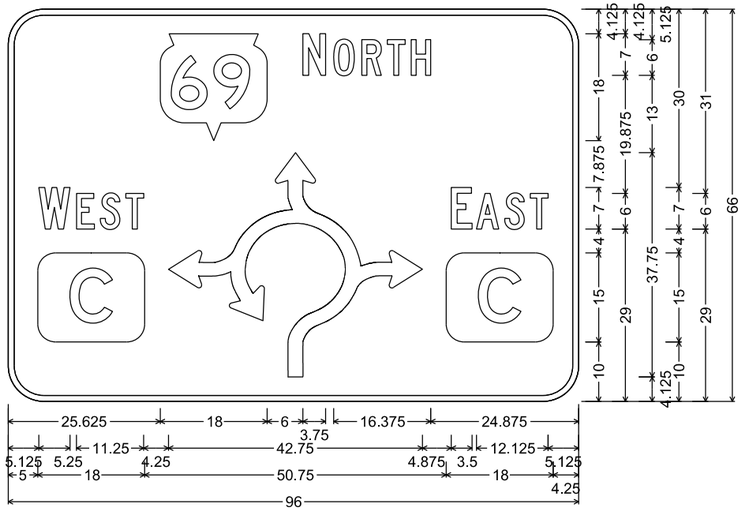
D1-68; 3.000" Radius, 0.750" Border
"EAST", C; "Urban", E; "Rd", E



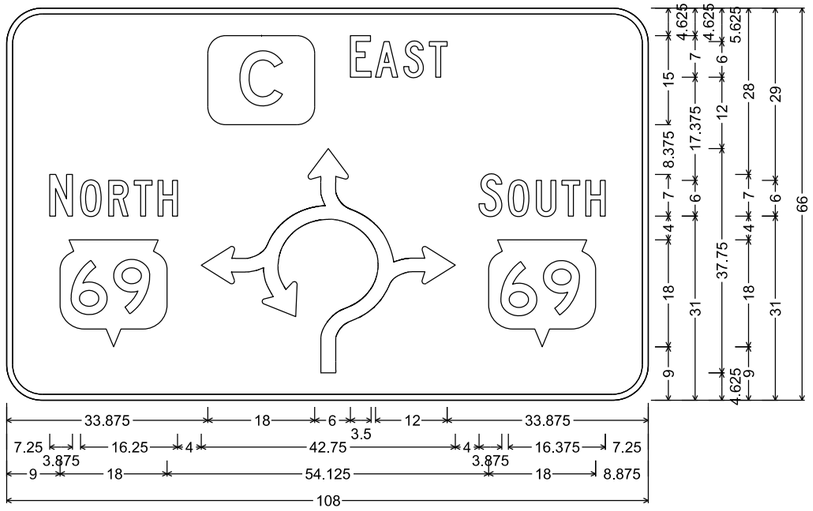
D1-2; 2.250" Radius, 0.750" Border
"New", E; "Glarus", E; "Monticello", E

NOTES

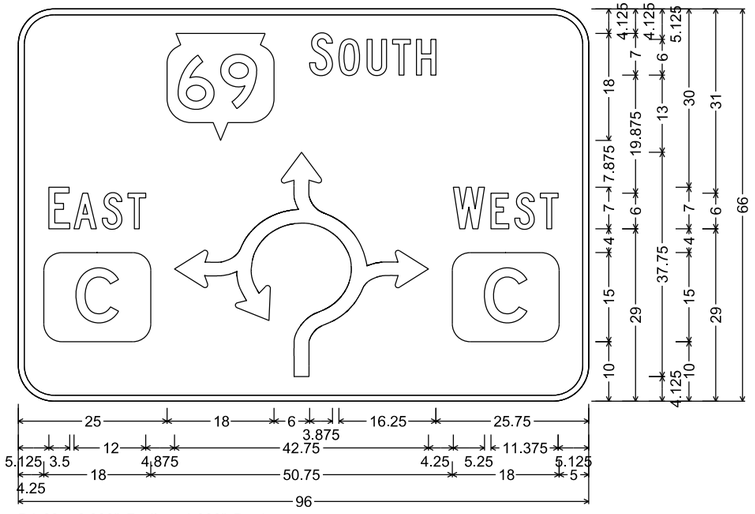
1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



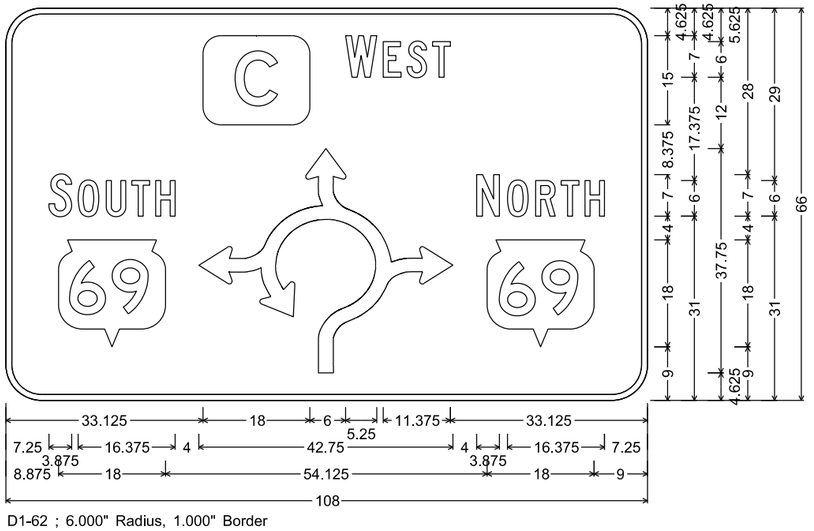
D1-62 ; 6.000" Radius, 1.000" Border



D1-62 ; 6.000" Radius, 1.000" Border



D1-62 ; 6.000" Radius, 1.000" Border



D1-62 ; 6.000" Radius, 1.000" Border

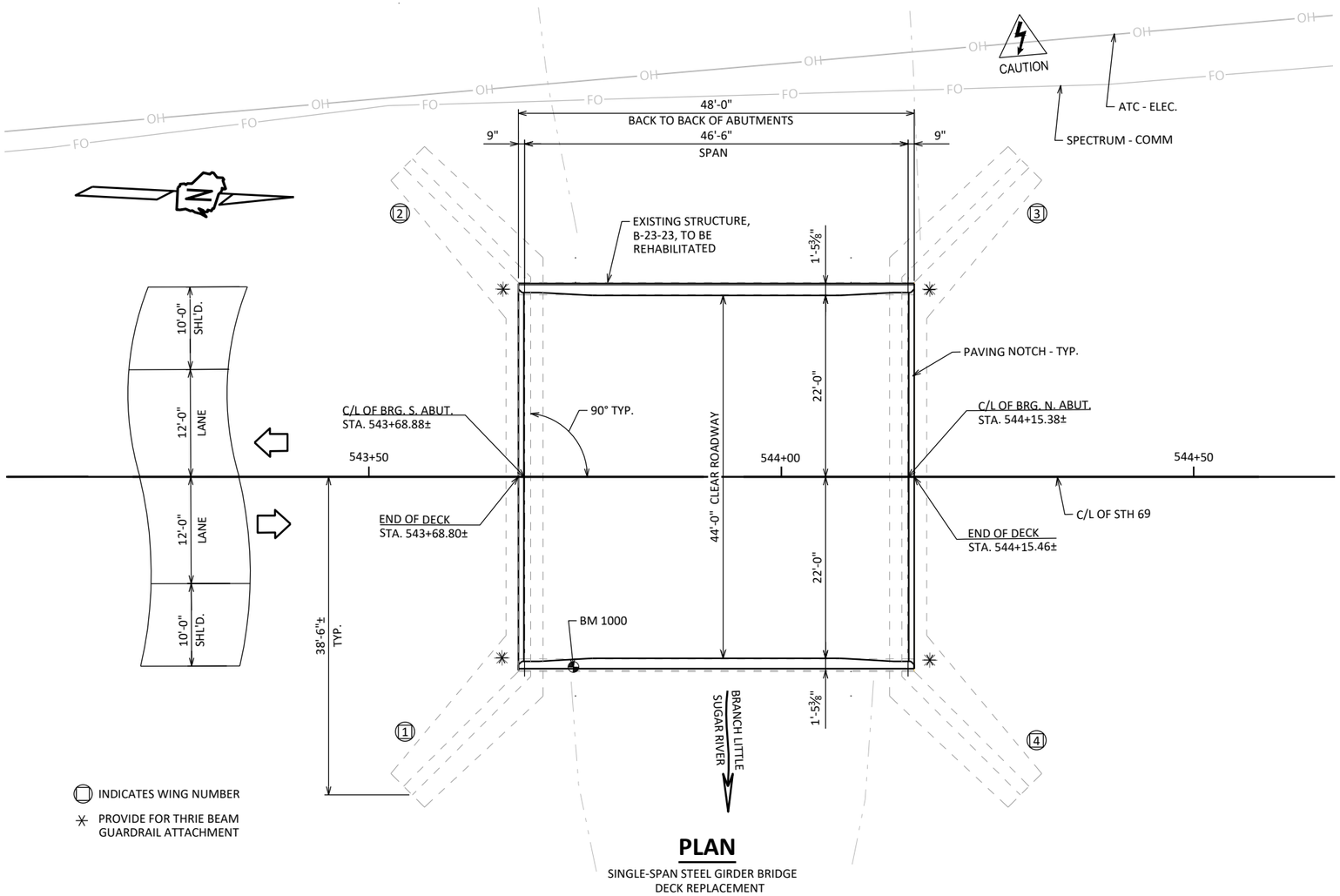
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	PERMANENT SIGNING	SHEET NO: 381	E

FILE NAME : C:\CAEfiles\Projects\tr_d1\1231a524.dgn PLOT DATE : 30-MAY 2024 8:16 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

7

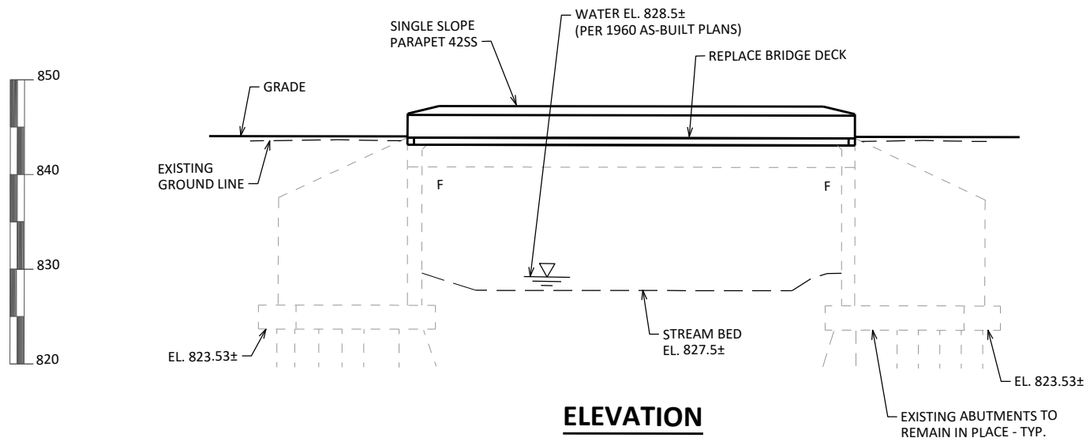
STATE PROJECT NUMBER

1690-04-73



PLAN

SINGLE-SPAN STEEL GIRDER BRIDGE
DECK REPLACEMENT



ELEVATION

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-18
OPERATING RATING: HS-30
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 200 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE ——— f'_c = 4,000 PSI
ALL OTHER ——— f'_c = 3,500 PSI

HIGH STRENGTH BAR STEEL REINFORCEMENT
GRADE 60 ——— f_y = 60,000 PSI

TRAFFIC DATA

FEATURE ON:
AADT = 6,900 (2026)
AADT = 7,600 (2046)
R.D.S. = 55 MPH

LIST OF DRAWINGS:

1. GENERAL PLAN
2. TYPICAL SECTIONS AND DETAILS
3. QUANTITIES AND NOTES
4. DECK ELEVATIONS
5. SUPERSTRUCTURE
6. SUPERSTRUCTURE PLAN
7. SUPERSTRUCTURE DETAILS AND BILL OF BARS
8. SINGLE SLOPE PARAPET 42SS

WISCONSIN ARLEN E. BEAUDETTE E-36829 EAU CLAIRE WI PROFESSIONAL ENGINEER

07/01/2025

STRUCTURE DESIGN CONTACTS:
AARON BONK (608)-261-0261
ARLEN BEAUDETTE (715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED ——— CHIEF STRUCTURES DESIGN ENGINEER — DATE 08/04/25

STRUCTURE B-23-23

STH 69 OVER BRANCH LITTLE SUGAR RIVER

COUNTY	TOWN
GREEN	MT. PLEASANT

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D	DRAWN BY	PLANS CK'D
NBE	DRS	CLP	AEB

GENERAL PLAN

SHEET 1 OF 8
382

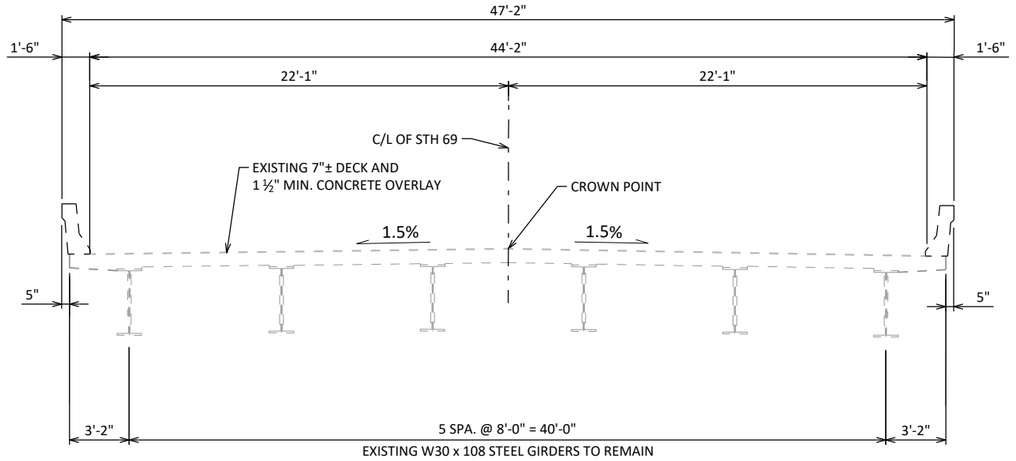
I.D. DATE:

8

8

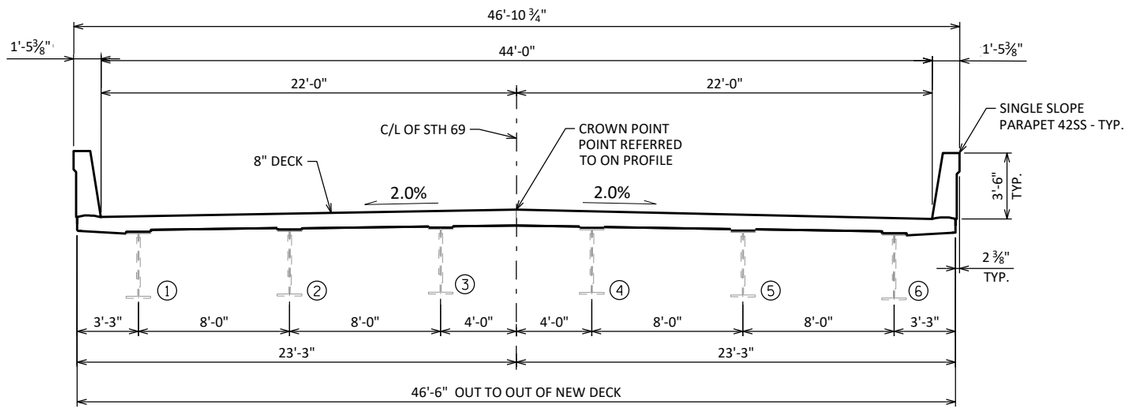
STATE PROJECT NUMBER

1690-04-73



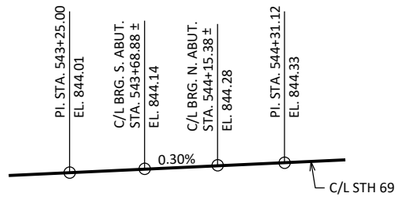
EXISTING TYPICAL SECTION THRU BRIDGE

(LOOKING UPSTATION)



COMPLETED TYPICAL SECTION THRU BRIDGE

(LOOKING UPSTATION)



PROFILE GRADE LINE

(STH 69)

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
1000	543+73	BM DISK SE TW B-23-23-59, 23' RT.	846.17

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-23-23

DRAWN BY CLP | PLANS CK'D AEB

TYPICAL SECTIONS AND DETAILS

SHEET 2 OF 8

383

8

8

STATE PROJECT NUMBER

1690-04-73

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	S. ABUT.	N. ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-23-23	EACH	-----	-----	-----	1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-23-23	EACH	-----	-----	-----	1
502.0100	CONCRETE MASONRY BRIDGES	CY	73	-----	-----	73
502.3200	PROTECTIVE SURFACE TREATMENT	SY	230	-----	-----	230
502.3210	PIGMENTED SURFACE SEALER	SY	48	-----	-----	48
502.4205	ADHESIVE ANCHORS NO. 5 BARS	EACH	-----	70	70	140
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	17,080	-----	-----	17,080
509.1500	CONCRETE SURFACE REPAIR	SF	-----	50	50	100
517.0901.S	PREPARATION AND COATING OF TOP FLANGES B-23-23	EACH	-----	-----	-----	1
517.3001.S	STRUCTURE OVERCOATING CLEANING AND PRIMING B-23-23	EACH	-----	-----	-----	1
517.4001.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-23-23	EACH	-----	-----	-----	1
517.6001.S	PORTABLE DECONTAINMENT FACILITY	EACH	-----	-----	-----	1
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4	-----	-----	4
	NON-BID ITEMS					
	FILLER	SIZE	---	---	---	½", ¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF THE NEW DECK.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE MINIMUM CONCRETE HAUNCH SHALL BE 2" FOR DESIGN CALCULATIONS AND THE HAUNCH CONCRETE QUANTITY IS BASED ON AN AVERAGE OF 5", WHICH IS THE MAXIMUM HAUNCH FOR WHICH THE CONTRACTOR WILL BE PAID.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-23-0023" SHALL BE THE EXISTING GROUNDLINE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A ½" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.

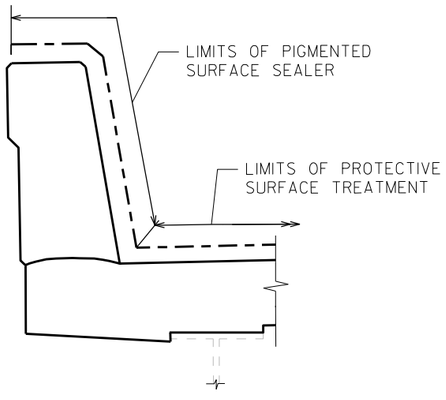
AT ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

VARIATIONS TO THE NEW GRADE LINE OF ¼" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW THE ORIGINAL CONSTRUCTION YEAR OF 1960.

EXISTING STRUCTURAL STEEL 5-FT. FROM BRIDGE ABUTMENTS SHALL BE PAINTED. THE COLOR OF EPOXY SHALL BE 25240 AND THE URETHANE COATING MATERIAL SHALL MATCH THE COLOR NUMBER SHOWN ON THE PLANS CONFORMING TO AMS STANDARD 595A. ESTIMATED STRUCTURAL STEEL SURFACE AREA = 500 SF.



PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER DETAIL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-23-23

DRAWN BY CLP | PLANS CK'D AEB

QUANTITIES AND NOTES

SHEET 3 OF 8

384

STATE PROJECT NUMBER

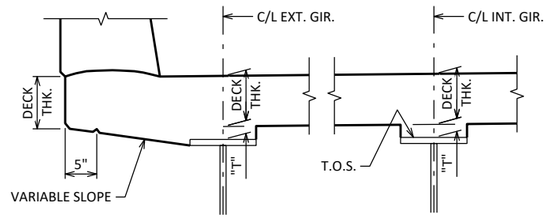
1690-04-73

TOP OF DECK ELEVATIONS

LOCATION	C/L BRG S. ABUT	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG N. ABUT
LT. EOD	843.70	843.72	843.73	843.74	843.76	843.77	843.79	843.80	843.81	843.83	843.84
GIRDER 1	843.74	843.76	843.77	843.78	843.80	843.81	843.83	843.84	843.85	843.87	843.88
GIRDER 2	843.90	843.92	843.93	843.94	843.96	843.97	843.99	844.00	844.01	844.03	844.04
GIRDER 3	844.06	844.08	844.09	844.10	844.12	844.13	844.15	844.16	844.17	844.19	844.20
C/L STH 69	844.14	844.16	844.17	844.18	844.20	844.21	844.23	844.24	844.25	844.27	844.28
GIRDER 4	844.06	844.08	844.09	844.10	844.12	844.13	844.15	844.16	844.17	844.19	844.20
GIRDER 5	843.90	843.92	843.93	843.94	843.96	843.97	843.99	844.00	844.01	844.03	844.04
GIRDER 6	843.74	843.76	843.77	843.78	843.80	843.81	843.83	843.84	843.85	843.87	843.88
RT. EOD	843.70	843.72	843.73	843.74	843.76	843.77	843.79	843.80	843.81	843.83	843.84

DEAD LOAD DEFLECTIONS

(INCHES)											
	C/L OF BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	C/L OF BRG.
GDR 1 - 6	0.0	0.20	0.40	0.60	0.70	0.70	0.70	0.60	0.40	0.20	0.0



CONCRETE HAUNCH DETAILS

TO DETERMINE 'T': AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES, TOP OF SPLICE PLATES, OR TOP OF COVER PLATES, WHICHEVER APPLIES, SHALL BE TAKEN AT CENTERLINE OF BEARINGS, CENTERLINE OF FIELD SPLICES, AND AT 0.1 POINTS.

TOP OF DECK ELEVATION AT FINAL GRADE
\- TOP OF STEEL ELEVATION AFTER STEEL ERECTION
\+ CONC. ONLY DEFLECTION; DOWNWARD DEFLECTION IS ADDED, UPWARD DEFLECTION IS SUBTRACTED

\- SLAB THICKNESS 8"

= 'T' VALUE FOR SETTING HAUNCH

NOTE: AN AVERAGE HAUNCH ('T') OF 5" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-23-23

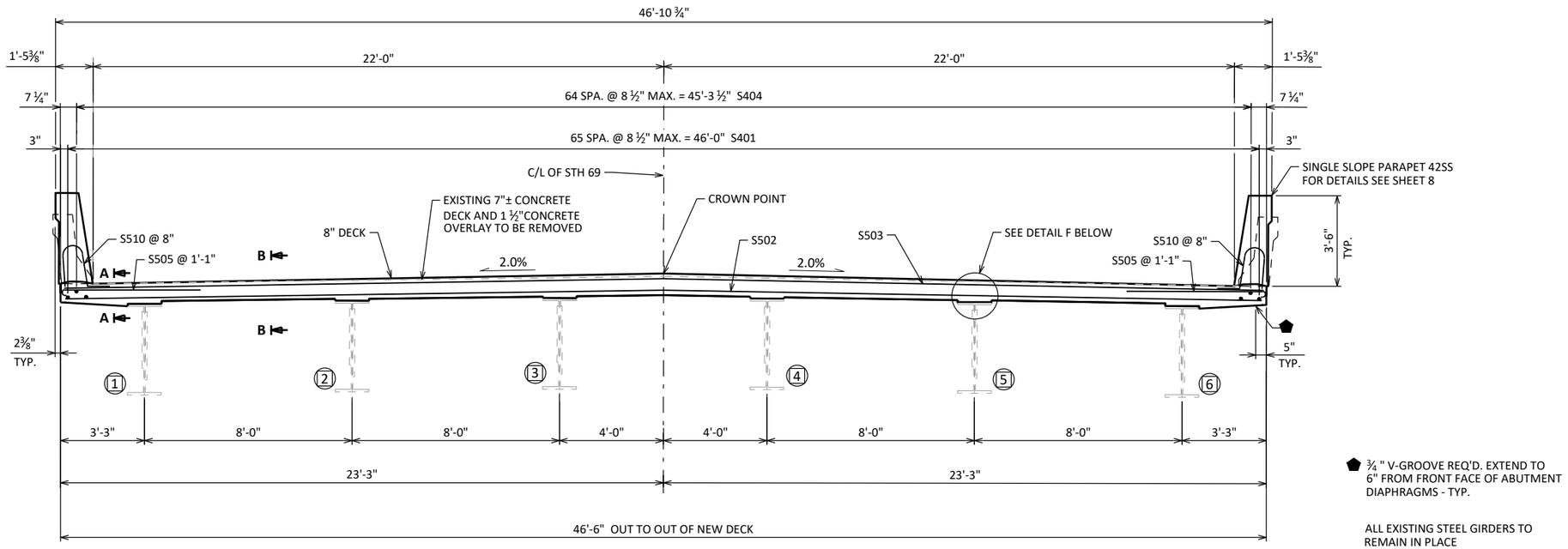
DRAWN BY CLP | PLANS CK'D AEB

DECK ELEVATIONS

SHEET 4 OF 8

STATE PROJECT NUMBER

1690-04-73

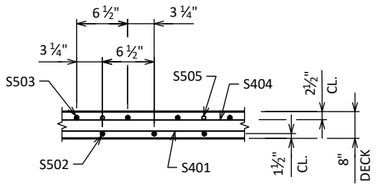


¾ " V-GROOVE REQ'D. EXTEND TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGMS - TYP.

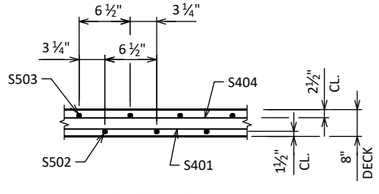
ALL EXISTING STEEL GIRDERS TO REMAIN IN PLACE

TYPICAL SECTION THRU BRIDGE

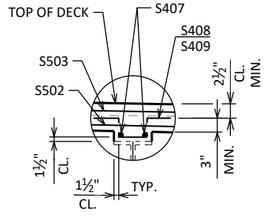
(LOOKING UPSTATION)



SECTION A



SECTION B



DETAIL F

S408, S409 BARS @ 1'-0" MAX. SPA.
TIP FROM VERTICAL FOR
VARYING HAUNCH HEIGHTS.
MAX. TILT FROM VERTICAL IS 30 DEGREES.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-23-23

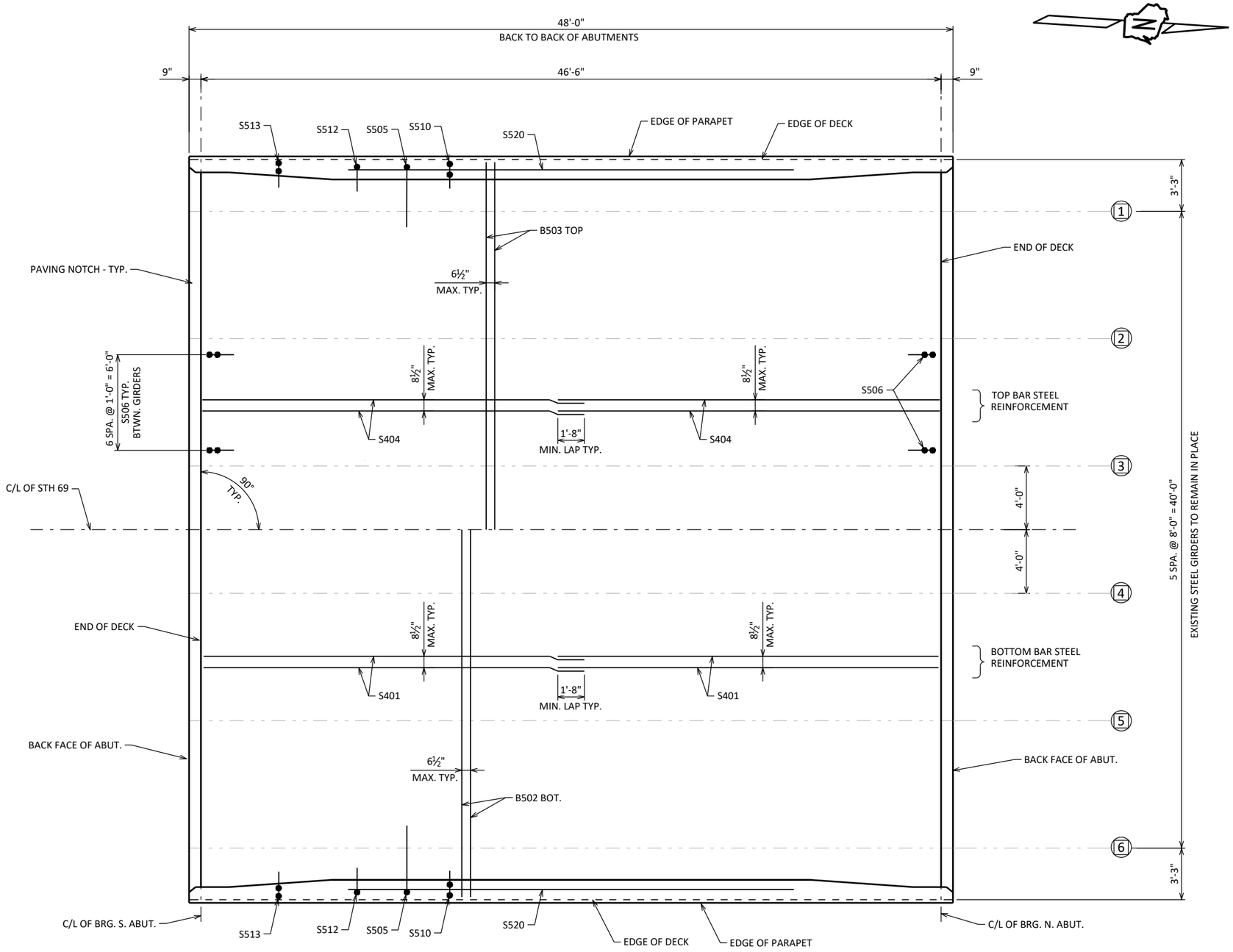
DRAWN BY CLP | PLANS CK'D AEB

SUPERSTRUCTURE

SHEET 5 OF 8

386

STATE PROJECT NUMBER
1690-04-73



PLAN

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-23-23

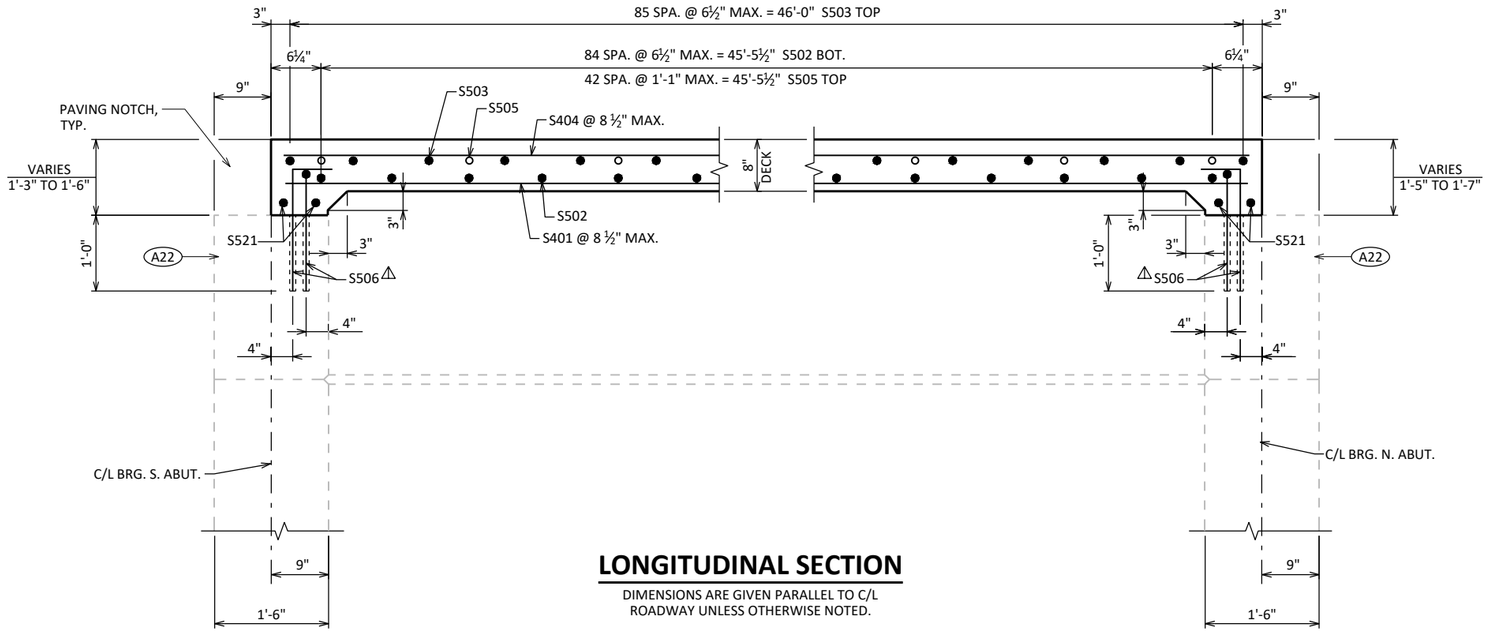
DRAWN BY CLP | PLANS CK'D AEB

SUPERSTRUCTURE PLAN

SHEET 6 OF 8
387

STATE PROJECT NUMBER

1690-04-73



LONGITUDINAL SECTION

DIMENSIONS ARE GIVEN PARALLEL TO C/L ROADWAY UNLESS OTHERWISE NOTED.

(A22) PRESERVE AND INCORPORATE EXISTING VERT. BAR STEEL REINFORCEMENT IN NEW WORK (EXISTING BAR STEEL NOT SHOWN)

BILL OF BARS

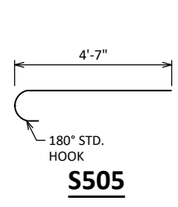
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
	S401	X	132	23'-11"			DECK LONG. BOT.
	S502	X	85	46'-2"			DECK TRANS. BOT.
	S503	X	86	46'-2"			DECK TRANS. TOP
	S404	X	130	23'-11"			DECK LONG. TOP
	S505	X	86	5'-3"	X		DECK TRANS. TOP AT EDGES
⚠	S506	X	140	2'-7"	X		DECK VERT. DOWEL BAR
	S407	X	12	45'-0"			DECK GIRDER HAUNCH
	S408	X	184	2'-6"	X		DECK GIRDER HAUNCH - HAT BARS GDR. 1, 2, 5, 6
	S409	X	92	2'-10"	X		DECK GIRDER HAUNCH - HAT BARS GDR. 3 & 4
	S510	X	94	4'-5"	X		DECK AT PARAPET VERT.
	S511	X	94	6'-8"	X		PARAPET VERT.
	S512	X	44	2'-9"	X		DECK AT PARAPET VERT.
	S513	X	68	4'-4"	X		DECK AT PARAPET VERT.
	S514	X	20	6'-5"	X		DECK AT PARAPET VERT.
	S515	X	24	6'-6"	X		DECK AT PARAPET VERT.
	S516	X	4	12'-0"	X		PARAPET HORIZ. AT ENDS OF DECK
	S517	X	20	12'-0"			PARAPET HORIZ. AT ENDS OF DECK
	S518	X	24	5'-5"	X	*	DECK AT PARAPET VERT.
	S519	X	8	12'-2"	X		PARAPET HORIZ. AT ENDS OF DECK
	S520	X	16	28'-0"			PARAPET HORIZ.
	S521	X	20	7'-0"			HORIZ. BETWEEN GIRDERS @ ABUT.

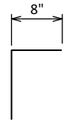
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

* LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

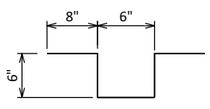
⚠ ADHESIVE ANCHORS NO. 5 BAR



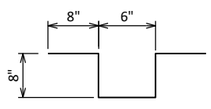
S505



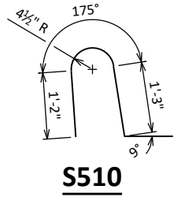
S506



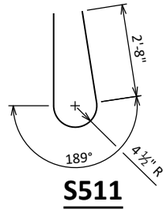
S408



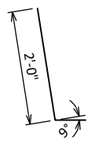
S409



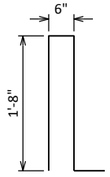
S510



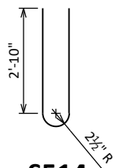
S511



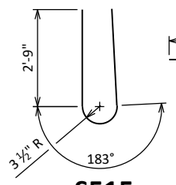
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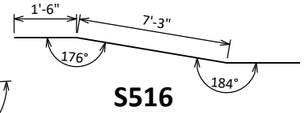
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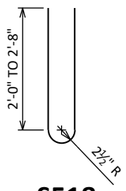
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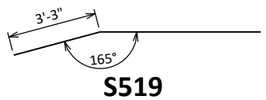
S515



S516



S518



S519

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S518	4 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-23-23

DRAWN BY CLP | PLANS CK'D AEB

SUPERSTRUCTURE DETAILS AND BILL OF BARS

SHEET 7 OF 8

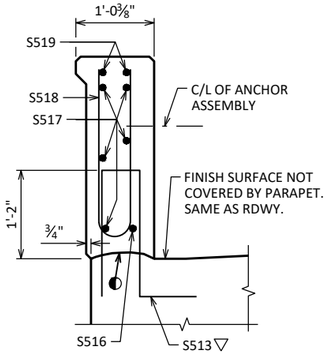
388

8

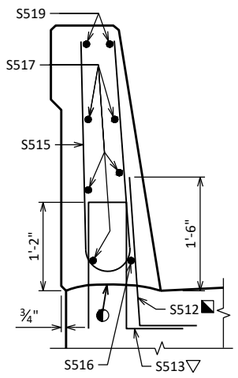
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STATE PROJECT NUMBER

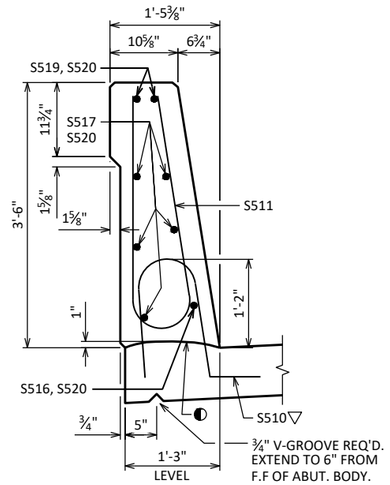
1690-04-73



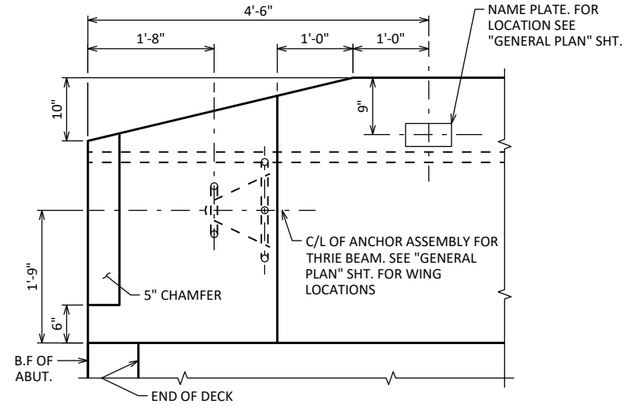
SECTION A-A



SECTION B-B

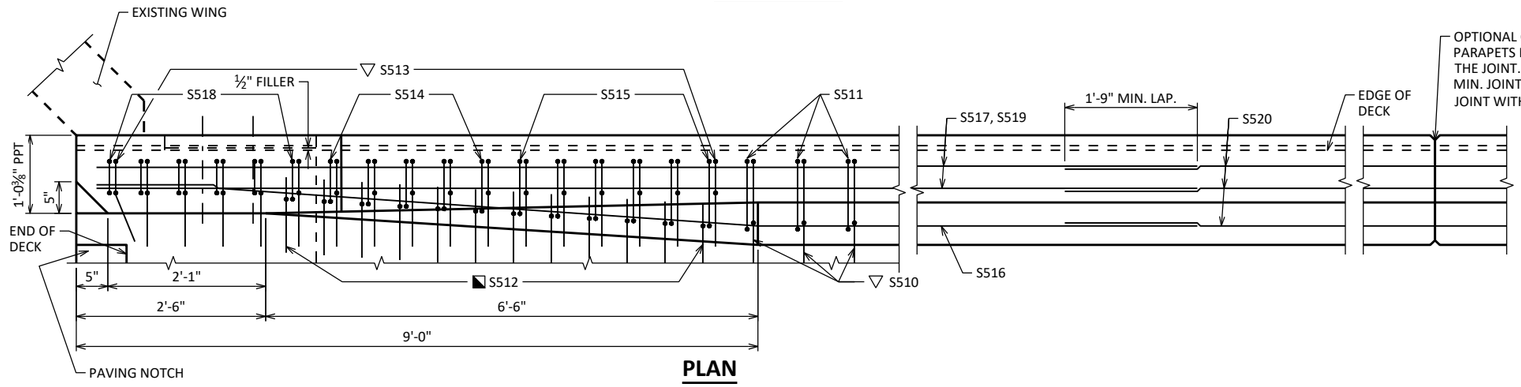


SECTION C-C



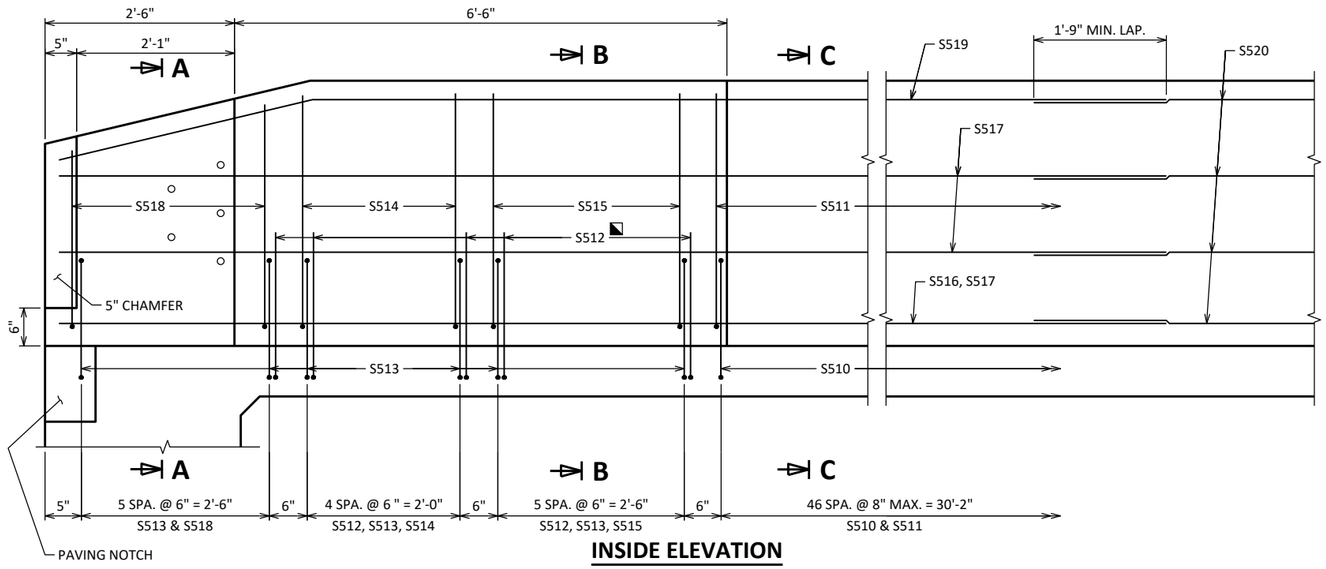
PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET



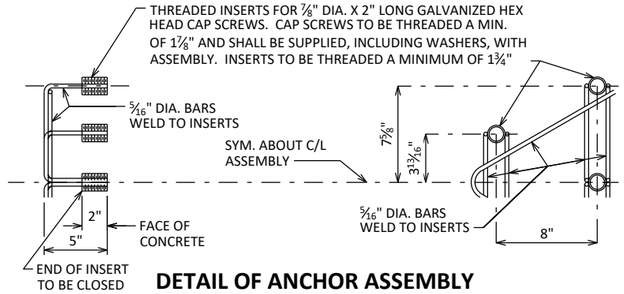
PLAN

WIGN 2 SHOWN, OTHERS SIMILAR



INSIDE ELEVATION

WING 2 SHOWN, OTHERS SIMILAR



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH ASTM F2329.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◪ USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ S510, S512, S513, AND S518 BARS TO BE TIED TO SUPERSTRUCTURE STEEL BEFORE SUPERSTRUCTURE IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-23-23

DRAWN BY CLP | PLANS CK'D AEB

SINGLE SLOPE PARAPET 42SS

SHEET 8 OF 8

389

SCALE = 2.00

8

8

DIVISION 1 - 69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		
517+30.67	51730.67	0.00	6.50	0.00	0.00	0	0	0	0	0	0
517+50.00	51750.00	19.33	5.60	0.00	0.00	4	0	0	4	0	4
518+00.00	51800.00	50.00	5.91	0.00	0.00	11	0	0	15	0	15
518+50.00	51850.00	50.00	6.24	0.00	0.00	11	0	0	26	0	26
519+00.00	51900.00	50.00	5.04	0.00	0.00	10	0	0	36	0	36
519+50.00	51950.00	50.00	5.25	0.00	0.80	10	0	1	46	1	45
520+00.00	52000.00	50.00	6.17	0.00	3.37	11	0	4	57	7	50
520+50.00	52050.00	50.00	6.35	0.00	5.43	12	0	8	69	17	52
521+00.00	52100.00	50.00	7.15	0.00	7.86	12	0	12	81	33	48
521+50.00	52150.00	50.00	7.64	0.00	7.17	14	0	14	95	52	43
522+00.00	52200.00	50.00	8.93	0.00	7.44	15	0	14	110	70	40
522+50.00	52250.00	50.00	6.44	0.00	7.99	14	0	14	124	89	35
523+00.00	52300.00	50.00	9.58	0.00	9.36	15	0	16	139	110	29
523+50.00	52350.00	50.00	11.11	0.00	2.89	19	0	11	158	125	33
524+00.00	52400.00	50.00	9.14	0.00	6.20	19	0	8	177	136	41
524+50.00	52450.00	50.00	7.89	0.00	8.09	16	0	13	193	153	40
525+00.00	52500.00	50.00	8.00	0.00	5.24	15	0	12	208	169	39
525+50.00	52550.00	50.00	10.16	0.00	3.36	17	0	8	225	180	45
526+00.00	52600.00	50.00	8.04	0.00	10.31	17	0	13	242	197	45
526+50.00	52650.00	50.00	7.86	0.00	13.45	15	0	22	257	226	31
527+00.00	52700.00	50.00	7.81	0.00	12.79	15	0	24	272	258	14
527+50.00	52750.00	50.00	5.92	0.00	16.15	13	0	27	285	294	-9
528+00.00	52800.00	50.00	4.18	0.00	19.66	9	0	33	294	338	-44
528+50.00	52850.00	50.00	3.54	0.00	3.78	7	0	22	301	367	-66
528+94.21	52894.21	44.21	3.48	0.00	0.00	6	0	3	307	371	-64
530+20.25	53020.25	0.00	6.64	0.00	0.00	0	0	0	307	371	-64
530+50.00	53050.00	29.75	8.72	0.00	0.00	8	0	0	315	371	-56
531+00.00	53100.00	50.00	6.93	0.00	7.84	14	0	7	329	380	-51
531+50.00	53150.00	50.00	4.99	0.00	69.34	11	0	71	340	475	-135
532+00.00	53200.00	50.00	4.27	0.00	93.65	9	0	151	349	676	-327
532+50.00	53250.00	50.00	3.89	0.00	184.20	8	0	257	357	1017	-660
533+00.00	53300.00	50.00	5.05	0.00	212.14	8	0	367	365	1506	-1141
533+50.00	53350.00	50.00	5.26	0.00	207.89	10	0	389	375	2023	-1648
534+00.00	53400.00	50.00	7.06	0.00	133.30	11	0	316	386	2443	-2057
534+50.00	53450.00	50.00	8.21	0.00	105.69	14	0	221	400	2737	-2337
535+00.00	53500.00	50.00	14.56	0.00	72.69	21	0	165	421	2957	-2536
535+50.00	53550.00	50.00	16.97	0.00	52.40	29	0	116	450	3111	-2661
536+00.00	53600.00	50.00	18.40	0.00	42.08	33	0	87	483	3227	-2744
536+50.00	53650.00	50.00	8.83	0.00	53.00	25	0	88	508	3344	-2836
537+00.00	53700.00	50.00	8.47	0.00	43.46	16	0	89	524	3462	-2938
537+50.00	53750.00	50.00	8.64	0.00	25.31	16	0	64	540	3547	-3007
538+00.00	53800.00	50.00	8.76	0.00	6.89	16	0	30	556	3587	-3031
538+50.00	53850.00	50.00	9.52	0.00	4.10	17	0	10	573	3600	-3027
539+00.00	53900.00	50.00	7.86	0.00	0.00	16	0	4	589	3606	-3017
539+50.00	53950.00	50.00	10.21	0.00	0.00	17	0	0	606	3606	-3000
539+76.62	53976.62	26.62	8.93	0.00	0.00	9	0	0	615	3606	-2991

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

9

9

PROJECT NO: 1690-04-73 | HWY: STH 69 | COUNTY: GREEN | EARTHWORK DATA | SHEET 390 | E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-EW.DWG
LAYOUT NAME - 090201-ew

PLOT DATE : 7/21/2025 1:08 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 49

DIVISION 2 - 69-NB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
524+09.69'NB'	52409.69	0.00	50.50	0.00	0.00	0	0	0	0	0	0
524+50.00'NB'	52450.00	40.31	43.15	672	5.85	70	19	4	70	5	46
525+00.00'NB'	52500.00	50.00	40.25	672	8.87	77	19	14	147	24	86
525+50.00'NB'	52550.00	50.00	40.62	672	13.40	75	19	21	222	52	114
526+00.00'NB'	52600.00	50.00	39.74	672	9.59	74	19	21	296	80	142
526+50.00'NB'	52650.00	50.00	34.31	672	12.90	69	19	21	365	108	164
527+00.00'NB'	52700.00	50.00	29.16	672	17.37	59	19	28	424	145	167
527+50.00'NB'	52750.00	50.00	31.72	672	14.83	56	19	30	480	185	165
528+00.00'NB	52800.00	50.00	37.95	672	20.70	65	19	33	545	229	167
528+50.00'NB	52850.00	50.00	30.37	672	14.86	63	19	33	608	273	167

DIVISION 2 - 69-NB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
532+50.00'NB'	53254.83	0.00	29.31	0.00	81.17	0	0	0	0	0	0
533+00.00'NB'	53304.83	50.00	37.61	661	20.84	62	18	94	62	125	-81
533+50.00'NB'	53354.83	50.00	47.23	661	0.01	79	18	19	141	150	-46
534+00.00'NB'	53404.83	50.00	53.75	661	0.28	94	18	0	235	150	30
534+50.00'NB'	53454.83	50.00	53.79	661	7.68	100	18	7	335	160	102
535+00.00'NB'	53504.83	50.00	58.38	661	0.00	104	18	7	439	169	178
535+50.00'NB'	53554.83	50.00	50.24	661	0.00	101	18	0	540	169	261
536+00.00'NB'	53604.83	50.00	52.41	661	0.00	95	18	0	635	169	338
536+49.16'NB'	53653.99	49.16	63.20	661	0.00	105	18	0	740	169	424

DIVISION 2 - C-EB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
10+00.00'EB'	1000.00	0.00	26.89	0.00	0.00	0	0	0	0	0	0
10+50.00'EB'	1050.00	50.00	27.27	762	3.82	50	5	4	50	5	40
10+80.29'EB'	1080.29	30.29	33.84	762	0.04	34	5	2	84	8	67
10+95.25'EB'	1095.25	14.96	60.47	762	0.00	26	5	0	110	8	88
11+00.00'EB'	1100.00	4.75	58.74	762	0.00	10	5	0	120	8	93
11+08.87'EB'	1108.87	8.87	43.05	762	0.29	17	5	0	137	8	106
11+50.00'EB'	1150.00	41.13	78.64	762	0.00	93	5	0	230	8	194
12+00.00'EB'	1200.00	50.00	89.16	762	0.00	155	5	0	385	8	344
12+50.00'EB'	1250.00	50.00	84.99	762	0.00	161	5	0	546	8	500
13+00.00'EB'	1300.00	50.00	79.96	762	3.46	153	5	3	699	12	645
13+20.27'EB'	1320.27	20.27	81.57	612	1.39	61	8	2	760	15	696
13+46.12'EB'	1346.12	25.85	75.87	612	2.11	75	8	2	835	17	760
13+50.00'EB'	1350.00	3.88	75.71	612	2.74	11	8	0	846	17	764
13+73.08'EB'	1373.08	23.08	91.40	612	9.39	71	8	5	917	24	821
14+00.00'EB'	1400.00	26.92	99.87	612	25.94	95	8	18	1012	48	884
14+27.43'EB'	1427.43	27.43	107.18	612	52.79	105	8	40	1117	101	928
14+50.00'EB'	1450.00	22.57	112.28	612	77.87	92	8	55	1209	174	940

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

9

9

PROJECT NO: 1690-04-73 | HWY: STH 69 | COUNTY: GREEN | EARTHWORK DATA | SHEET 391 | E

DIVISION 2 - C-WB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
10+00.00'WB'	1000.00	0.00	27.95	0.00	0.00	0	0	0	0	0	0
10+50.00'WB'	1050.00	50.00	33.05	0.00	13.53	56	0	13	56	17	39
11+00.00'WB'	1100.00	50.00	35.01	0.00	4.58	63	0	17	119	40	79
11+50.00'WB'	1150.00	50.00	41.94	0.00	2.64	71	0	7	190	49	141
12+00.00'WB'	1200.00	50.00	84.27	0.00	2.80	117	0	5	307	56	251
12+50.00'WB'	1250.00	50.00	129.03	0.00	3.81	197	0	6	504	64	440
13+00.00'WB'	1300.00	50.00	145.95	0.00	0.48	255	0	4	759	69	690
13+50.00'WB'	1350.00	50.00	35.51	0.00	0.85	168	0	1	927	70	857
13+60.89'WB'	1360.89	10.89	17.81	0.00	23.33	11	0	5	938	77	861
13+71.35'WB'	1371.35	10.46	5.61	0.00	60.04	5	0	16	943	98	845
14+00.00'WB'	1400.00	28.65	0.00	0.00	169.65	3	0	122	946	261	685
14+50.00'WB'	1450.00	50.00	0.00	0.00	305.54	0	0	440	946	846	100

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

9

9

PROJECT NO: 1690-04-73 | HWY: STH 69 | COUNTY: GREEN | EARTHWORK DATA | SHEET 392 | E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-EW.DWG
LAYOUT NAME - 090203-ew

PLOT DATE : 7/21/2025 1:08 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1" = 1'

DIVISION 3 - 69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
517+30.67	51730.67	0.00	1.09	0.00	4.09	0	0	0	0	0	0
517+50.00	51750.00	19.33	1.09	634	3.24	1	7	3	1	4	-10
518+00.00	51800.00	50.00	1.12	634	2.96	2	7	6	3	12	-24
518+50.00	51850.00	50.00	1.28	634	6.85	2	7	9	5	24	-41
519+00.00	51900.00	50.00	2.05	634	4.58	3	7	11	8	39	-60
519+50.00	51950.00	50.00	3.33	634	3.05	5	7	7	13	48	-72
520+00.00	52000.00	50.00	8.15	634	0.25	11	7	3	24	52	-72
520+50.00	52050.00	50.00	13.02	634	2.05	20	7	2	44	55	-62
521+00.00	52100.00	50.00	16.15	634	5.53	27	7	7	71	64	-52
521+50.00	52150.00	50.00	21.47	634	0.74	35	7	6	106	72	-32
522+00.00	52200.00	50.00	27.58	634	0.89	45	7	2	151	74	3
522+50.00	52250.00	50.00	27.64	634	3.65	51	7	4	202	80	42
523+00.00	52300.00	50.00	25.77	634	0.01	49	7	3	251	84	79
523+50.00	52350.00	50.00	22.72	634	1.22	45	7	1	296	85	116
524+00.00	52400.00	50.00	19.51	634	4.03	39	7	5	335	92	141
524+09.65	52409.65	9.65	23.47	634	2.82	8	7	1	343	93	140

DIVISION 3 - 69-SB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
524+09.68'SB'	52409.68	0.00	64.13	0.00	2.86	0	0	0	0	0	0
524+50.00'SB'	52450.00	40.32	65.37	1674	3.90	97	34	5	97	7	57
525+00.00'SB'	52500.00	50.00	66.03	1674	0.95	122	34	4	219	12	139
525+50.00'SB'	52550.00	50.00	72.85	1674	1.94	129	34	3	348	16	231
526+00.00'SB'	52600.00	50.00	84.53	1674	0.94	146	34	3	494	20	339
526+50.00'SB'	52650.00	50.00	92.13	1674	0.33	164	34	1	658	21	468
527+00.00'SB'	52700.00	50.00	94.91	1674	0.25	173	34	1	831	23	605
527+50.00'SB'	52750.00	50.00	94.08	1674	14.98	175	34	14	1006	41	728
528+00.00'SB'	52800.00	50.00	86.70	1674	3.47	167	34	17	1173	64	838
528+24.96'SB'	52824.96	24.96	12.46	1674	0.00	46	34	2	1219	67	848
528+50.00'SB'	52850.00	25.04	36.70	1674	10.66	23	34	5	1242	73	831

DIVISION 3 - 69-SB

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
532+50.00'SB'	53254.86	0.00	46.15	0.00	25.23	0	0	0	0	0	0
533+00.00'SB'	53304.86	50.00	53.09	1392	0.00	92	31	23	92	31	31
533+50.00'SB'	53354.86	50.00	61.42	1392	0.22	106	31	0	198	31	106
534+00.00'SB'	53404.86	50.00	66.45	1392	1.30	118	31	1	316	32	193
534+50.00'SB'	53454.86	50.00	58.39	1392	0.96	116	31	2	432	35	275
535+00.00'SB'	53504.86	50.00	70.72	1392	0.00	120	31	1	552	36	364
535+50.00'SB'	53554.86	50.00	79.53	1392	0.00	139	31	0	691	36	472
536+00.00'SB'	53604.86	50.00	90.95	1392	0.00	158	31	0	849	36	600
536+49.16'SB'	53654.02	49.16	97.68	1392	0.00	172	31	0	1021	36	741

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

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DIVISION 3 - 69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
536+49.20	53649.20	0.00	57.74	0.00	0.08	0	0	0	0	0	0
537+00.00	53700.00	50.80	57.34	602	0.22	108	7	0	108	0	101
537+50.00	53750.00	50.00	45.58	602	0.99	95	7	1	203	1	188
538+00.00	53800.00	50.00	23.45	602	0.21	64	7	1	267	3	243
538+50.00	53850.00	50.00	12.62	602	0.19	33	7	0	300	3	269
539+00.00	53900.00	50.00	3.86	602	1.78	15	7	2	315	5	275
539+50.00	53950.00	50.00	2.20	602	5.59	6	7	7	321	15	265
539+61.54	53961.54	11.54	2.20	602	6.08	1	7	2	322	17	256

DIVISION 3 - 69

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
539+61.54	53961.54	0.00	3.77	0.00	1.91	0	0	0	0	0	0
540+00.00	54000.00	38.46	7.07	0.00	12.19	8	0	10	8	13	-5
540+50.00	54050.00	50.00	3.97	53.00	32.14	10	1	41	18	68	-51
540+64.98	54064.98	14.98	3.04	53.00	35.58	2	1	19	20	93	-76
540+89.95	54089.95	24.97	4.97	53.00	19.31	4	1	25	24	126	-107
541+00.00	54100.00	10.05	5.75	53.00	18.56	2	1	7	26	136	-115
541+14.95	54114.95	14.95	6.81	53.00	14.43	3	1	9	29	148	-126
541+50.00	54150.00	35.05	12.29	53.00	0.01	12	1	9	41	160	-127
542+00.00	54200.00	50.00	7.79	53.00	0.53	19	1	1	60	161	-111
542+50.00	54250.00	50.00	11.43	53.00	0.02	18	1	1	78	162	-96
542+63.50	54263.50	13.50	11.55	53.00	0.04	6	1	0	84	162	-91
543+00.00	54300.00	36.50	29.02	0.00	0.00	27	0	0	111	162	-64
543+10.00	54310.00	10.00	25.16	0.00	0.11	10	0	0	121	162	-54
543+29.33	54329.33	19.33	8.16	0.00	1.92	12	0	1	133	164	-44
543+50.00	54350.00	20.67	9.26	0.00	8.39	7	0	4	140	169	-42
544+50.00	54450.00	0.00	12.58	0.00	4.32	0	0	0	140	169	-42
544+81.75	54481.75	31.75	22.33	0.00	0.00	21	0	3	161	173	-25
545+00.00	54500.00	18.25	24.15	0.00	0.00	16	0	0	177	173	-9
545+06.73	54506.73	6.73	22.26	0.00	0.00	6	0	0	183	173	-3
545+19.25	54519.25	12.52	18.23	0.00	6.95	9	0	2	192	176	3
545+31.71	54531.71	12.46	13.01	0.00	13.66	7	0	5	199	182	4
545+44.23	54544.23	12.52	10.94	0.00	14.24	6	0	6	205	190	2
545+50.00	54550.00	5.77	12.29	0.00	13.00	2	0	3	207	194	0
545+69.21	54569.21	19.21	20.18	0.00	13.28	12	0	9	219	206	0
546+00.00	54600.00	30.79	28.95	0.00	2.88	28	0	9	247	218	16
546+50.00	54650.00	50.00	53.81	0.00	0.00	77	0	3	324	222	89
546+63.00	54663.00	13.00	0.00	0.00	0.00	13	0	0	337	222	102

DIVISION 3 - F

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
10+50.00'F'	1050.00	0.00	13.59	0.00	0.02	0	0	0	0	0	0
11+00.00'F'	1100.00	50.00	7.52	0.00	0.39	20	0	0	20	0	20
11+21.26'F'	1121.26	21.26	5.06	0.00	3.15	5	0	1	25	1	24

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

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PROJECT NO: 1690-04-73 | HWY: STH 69 | COUNTY: GREEN | EARTHWORK DATA | SHEET 394 | E

DIVISION 3 - 69

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.33	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 5	NOTE 6
466+94.05	46694.05	0.00	25.30	0.00	0.83	0.00	0	0	0	0	0	0	0	0	0
467+00.00	46700.00	5.95	25.39	317.00	0.58	0.00	6	9	0	0	6	0	0	0	-3
467+50.00	46750.00	50.00	30.46	317.00	0.99	0.00	52	9	1	0	58	1	0	0	39
468+00.00	46800.00	50.00	48.68	317.00	0.66	0.00	73	9	2	0	131	4	0	0	101
468+50.00	46850.00	50.00	49.79	317.00	0.50	0.00	91	9	1	0	222	5	0	0	182
469+00.00	46900.00	50.00	56.74	317.00	3.13	0.00	99	9	3	0	321	9	0	0	268
469+50.00	46950.00	50.00	59.87	317.00	3.79	0.00	108	9	6	0	429	17	0	0	359
470+00.00	47000.00	50.00	66.81	317.00	3.73	0.00	117	9	7	0	546	27	0	0	458
470+50.00	47050.00	50.00	69.15	317.00	1.04	0.00	126	9	4	0	672	32	0	0	570
471+00.00	47100.00	50.00	64.08	317.00	0.42	0.00	123	9	1	0	795	33	0	0	683
471+50.00	47150.00	50.00	59.34	317.00	0.03	0.00	114	9	0	0	909	33	0	0	788
472+00.00	47200.00	50.00	51.22	317.00	0.17	0.00	102	9	0	0	1011	33	0	0	881
472+50.00	47250.00	50.00	42.67	317.00	2.31	0.00	87	9	2	0	1098	36	0	0	957
473+00.00	47300.00	50.00	43.72	317.00	10.47	0.00	80	9	12	0	1178	52	0	0	1012
473+50.00	47350.00	50.00	43.30	317.00	23.21	0.00	81	9	31	0	1259	93	0	0	1043
473+54.21	47354.21	4.21	44.80	317.00	23.31	0.00	7	9	4	0	1266	98	0	0	1036
473+72.25	47372.25	18.04	88.71	317.00	0.00	0.00	45	9	8	0	1311	109	0	0	1061
473+93.02	47393.02	20.77	118.34	317.00	0.00	0.00	80	9	0	0	1391	109	0	0	1133
474+00.00	47400.00	6.98	116.61	317.00	0.00	0.00	30	9	0	0	1421	109	0	0	1154
474+14.22	47414.22	14.22	61.24	317.00	14.34	0.00	47	9	4	0	1468	114	0	0	1187
474+50.00	47450.00	35.78	56.17	317.00	19.86	0.00	78	9	23	0	1546	145	0	0	1225
475+00.00	47500.00	50.00	56.76	317.00	15.32	0.00	105	9	33	0	1651	189	0	0	1278
475+50.00	47550.00	50.00	60.11	317.00	23.52	0.00	108	9	36	0	1759	237	0	0	1329
476+00.00	47600.00	50.00	60.37	317.00	16.85	0.00	112	9	37	0	1871	286	0	0	1383
476+50.00	47650.00	50.00	99.23	317.00	15.85	0.00	148	9	30	0	2019	326	0	0	1482
477+00.00	47700.00	50.00	144.43	317.00	12.04	0.00	226	9	26	0	2245	360	0	0	1665
477+50.00	47750.00	50.00	107.35	317.00	13.92	0.00	233	9	24	0	2478	392	0	0	1857
478+00.00	47800.00	50.00	90.89	317.00	15.92	0.00	184	9	28	0	2662	430	0	0	1995
478+22.67	47822.67	22.67	87.03	317.00	15.73	0.00	75	9	13	0	2737	447	0	0	2044
478+50.00	47850.00	27.33	163.13	317.00	0.00	0.00	127	9	8	0	2864	458	0	0	2152
478+61.16	47861.16	11.16	161.71	317.00	0.00	0.00	67	9	0	0	2931	458	0	0	2210
478+84.62	47884.62	23.46	107.86	317.00	16.22	0.00	117	9	7	0	3048	467	0	0	2309
479+00.00	47900.00	15.38	123.70	317.00	16.64	0.00	66	9	9	0	3114	479	0	0	2354
479+27.86	47927.86	27.86	153.04	317.00	17.21	0.00	143	9	17	0	3257	501	0	0	2466
479+52.78	47952.78	24.92	186.81	317.00	17.83	0.00	157	9	16	0	3414	523	0	0	2592
479+77.76	47977.76	24.98	143.02	317.00	18.03	0.00	153	9	17	0	3567	545	0	0	2714
480+00.00	48000.00	22.24	44.48	317.00	21.88	0.00	77	9	16	0	3644	567	0	0	2761
480+50.00	48050.00	50.00	41.81	317.00	16.67	0.00	80	9	36	0	3724	614	0	0	2784
481+00.00	48100.00	50.00	45.07	317.00	9.70	0.00	80	9	24	0	3804	646	0	0	2824
481+50.00	48150.00	50.00	50.65	317.00	7.56	0.00	89	9	16	0	3893	668	0	0	2883

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
5 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
6 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED EBS IN FILL) * FILL FACTOR)]

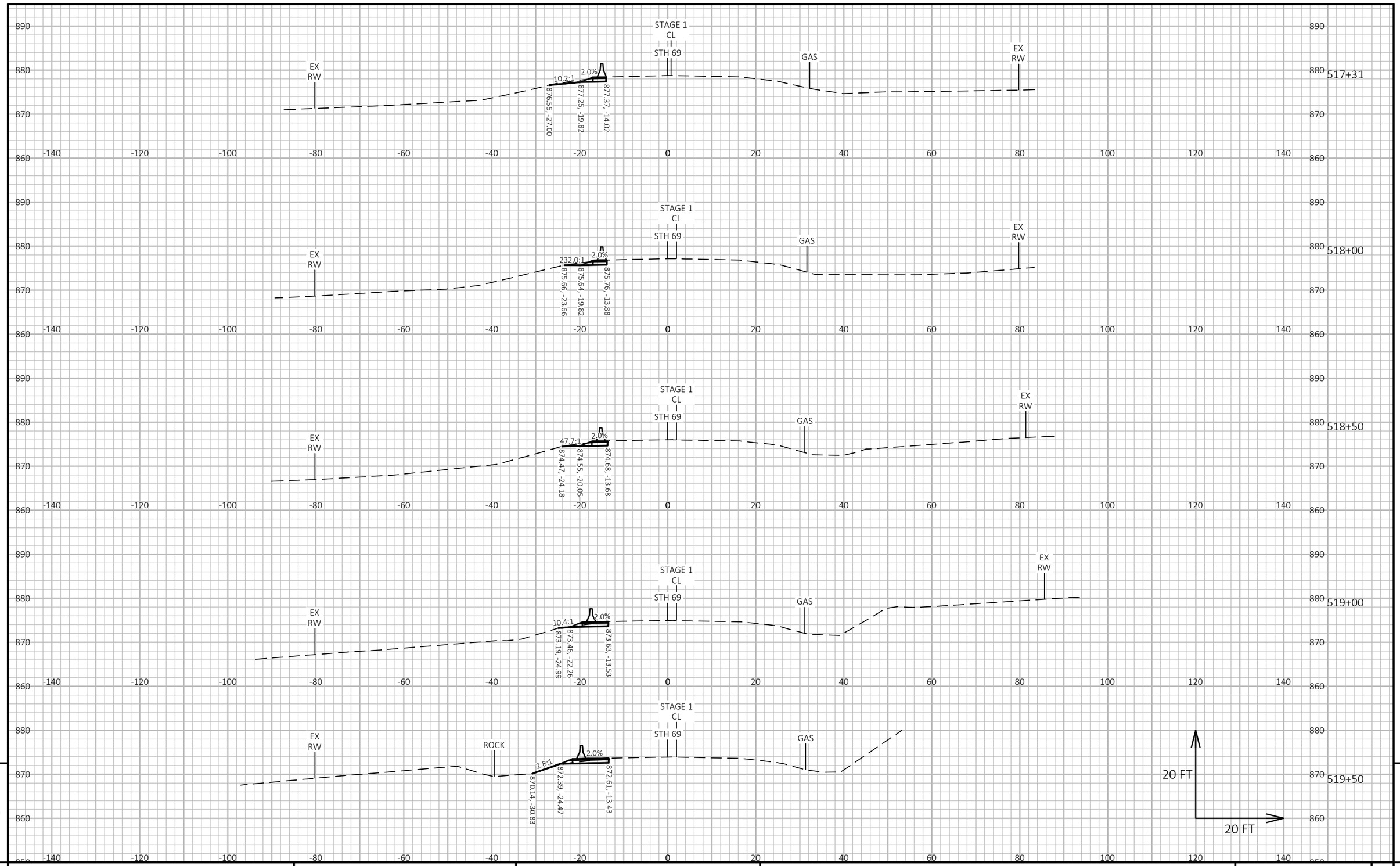
DIVISION 3 - 69

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.33	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 5	NOTE 6
482+00.00	48200.00	50.00	44.13	317.00	9.08	0.00	88	9	15	0	3981	688	0	0	2942
482+50.00	48250.00	50.00	43.29	317.00	4.79	0.00	81	9	13	0	4062	705	0	0	2997
483+00.00	48300.00	50.00	47.95	317.00	4.49	0.00	84	9	9	0	4146	717	0	0	3060
483+50.00	48350.00	50.00	46.32	317.00	8.72	0.00	87	9	12	0	4233	733	0	0	3122
484+00.00	48400.00	50.00	47.90	317.00	5.72	0.00	87	9	13	0	4320	750	0	0	3183
484+50.00	48450.00	50.00	47.95	317.00	7.48	0.00	89	9	12	0	4409	766	0	0	3247
485+00.00	48500.00	50.00	49.75	317.00	21.42	0.00	90	9	27	0	4499	802	0	0	3293
485+31.26	48531.26	31.26	48.99	317.00	50.10	0.00	57	9	41	0	4556	857	0	0	3286
485+56.24	48556.24	24.98	49.75	317.00	48.19	0.00	46	9	45	0	4602	916	0	0	3264
485+81.24	48581.24	25.00	49.89	317.00	71.60	0.00	46	9	55	0	4648	990	0	0	3228
486+00.00	48600.00	18.76	50.07	317.00	77.16	0.00	35	9	52	0	4683	1059	0	0	3185
486+50.00	48650.00	50.00	53.13	317.00	18.90	0.00	96	9	89	0	4779	1177	0	0	3154
487+00.00	48700.00	50.00	55.42	317.00	2.62	0.00	101	9	20	0	4880	1204	0	0	3219
487+50.00	48750.00	50.00	55.25	317.00	1.87	0.00	102	9	4	0	4982	1209	0	0	3307
488+00.00	48800.00	50.00	56.41	317.00	4.45	0.00	103	9	6	0	5085	1217	0	0	3393
488+50.00	48850.00	50.00	60.54	317.00	0.42	0.00	108	9	5	0	5193	1224	0	0	3486
489+00.00	48900.00	50.00	188.58	317.00	1.59	0.00	231	9	2	0	5424	1226	0	0	3706
489+21.42	48921.42	21.42	187.88	317.00	12.19	0.00	149	9	5	0	5573	1233	0	0	3839
489+29.09	48929.09	7.67	187.52	317.00	15.96	0.00	53	9	4	0	5626	1238	0	0	3878
489+50.00	48950.00	20.91	187.57	317.00	5.26	0.00	145	9	8	0	5771	1249	0	0	4004
490+00.00	49000.00	50.00	28.70	317.00	9.46	0.00	200	9	14	0	5971	1267	0	0	4176
490+50.00	49050.00	50.00	29.38	317.00	69.42	0.00	54	9	73	0	6025	1365	0	0	4124
491+00.00	49100.00	50.00	35.25	317.00	115.01	0.00	60	9	171	0	6085	1592	0	0	3948
491+50.00	49150.00	50.00	42.40	317.00	199.43	0.00	72	9	291	0	6157	1979	0	0	3624
491+58.79	49158.79	8.79	43.06	317.00	182.54	0.00	14	9	62	0	6171	2062	0	0	3547
491+78.53	49178.53	19.74	44.94	317.00	185.13	0.00	32	9	134	0	6203	2240	0	0	3392
491+83.65	49183.65	5.12	47.51	317.00	171.09	0.00	9	9	34	0	6212	2285	0	0	3347
492+00.00	49200.00	16.35	53.38	317.00	132.92	0.00	31	9	92	0	6243	2407	0	0	3247
492+08.70	49208.70	8.70	60.46	317.00	112.47	0.00	18	9	40	0	6261	2461	0	0	3203
492+12.46	49212.46	3.76	62.78	317.00	106.43	0.00	9	9	15	0	6270	2480	0	0	3183
492+37.45	49237.45	24.99	6.72	317.00	77.57	0.00	32	9	85	0	6302	2594	0	0	3093
492+60.22	49260.22	22.77	8.08	317.00	54.02	0.00	6	9	55	0	6308	2667	0	0	3017
492+62.44	49262.44	2.22	8.76	317.00	51.08	0.00	1	9	4	0	6309	2672	0	0	3004
493+08.40	49308.40	45.96	119.12	317.00	6.80	0.00	109	9	49	0	6418	2737	0	0	3039
493+37.01	49337.01	28.61	18.77	317.00	13.55	0.00	73	9	11	0	6491	2752	0	0	3089
494+00.00	49400.00	62.99	0.01	317.00	1.37	0.00	28	9	17	0	6519	2774	0	0	3085

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
5 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
6 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED EBS IN FILL) * FILL FACTOR)]

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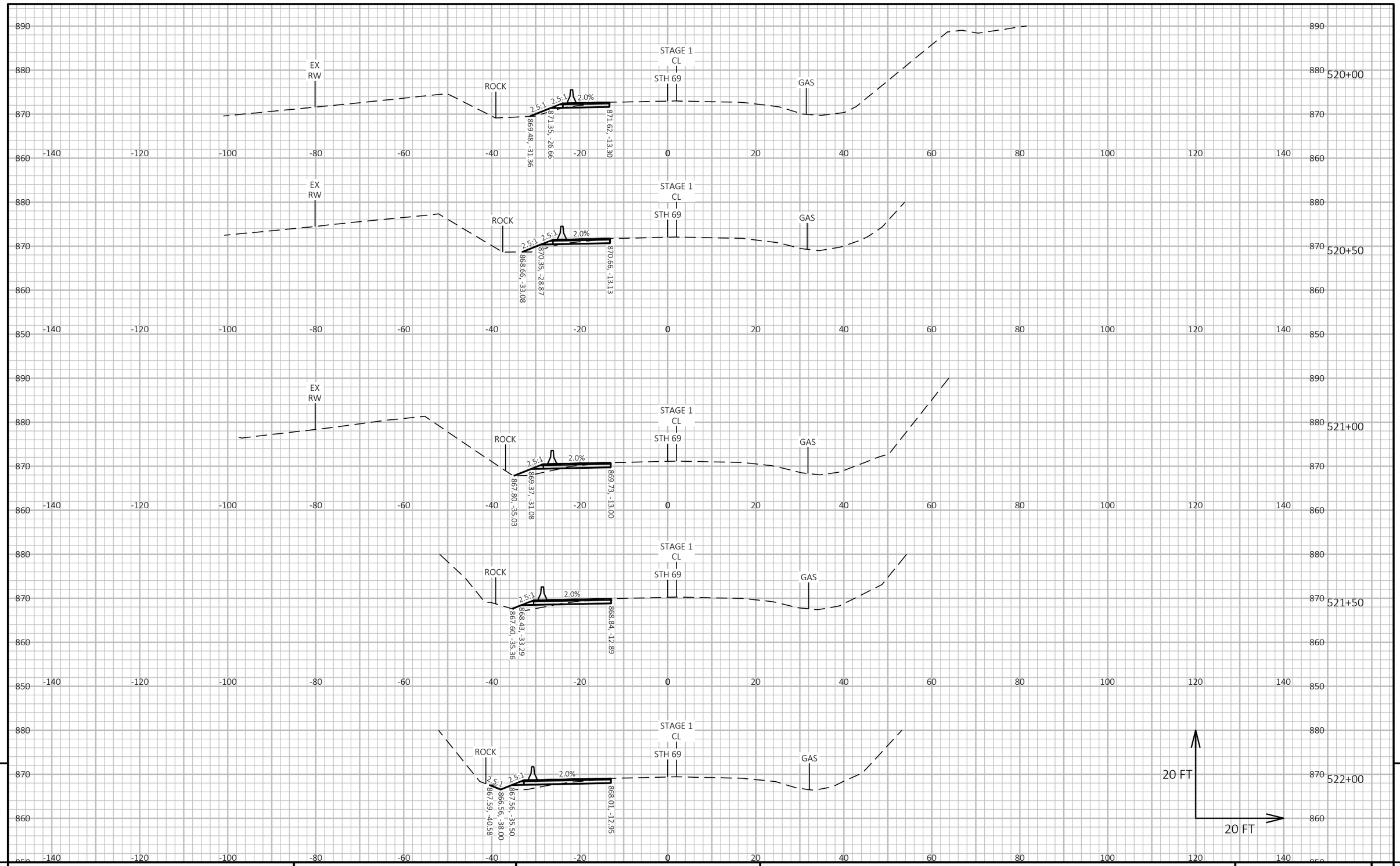


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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 1 TEMPORARY WIDENING	SHEET 397	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-XS_STAGE1_TEMPWIDEN.DWG
LAYOUT NAME - 090201-xs
PLOT DATE : 7/22/2025 9:44 AM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

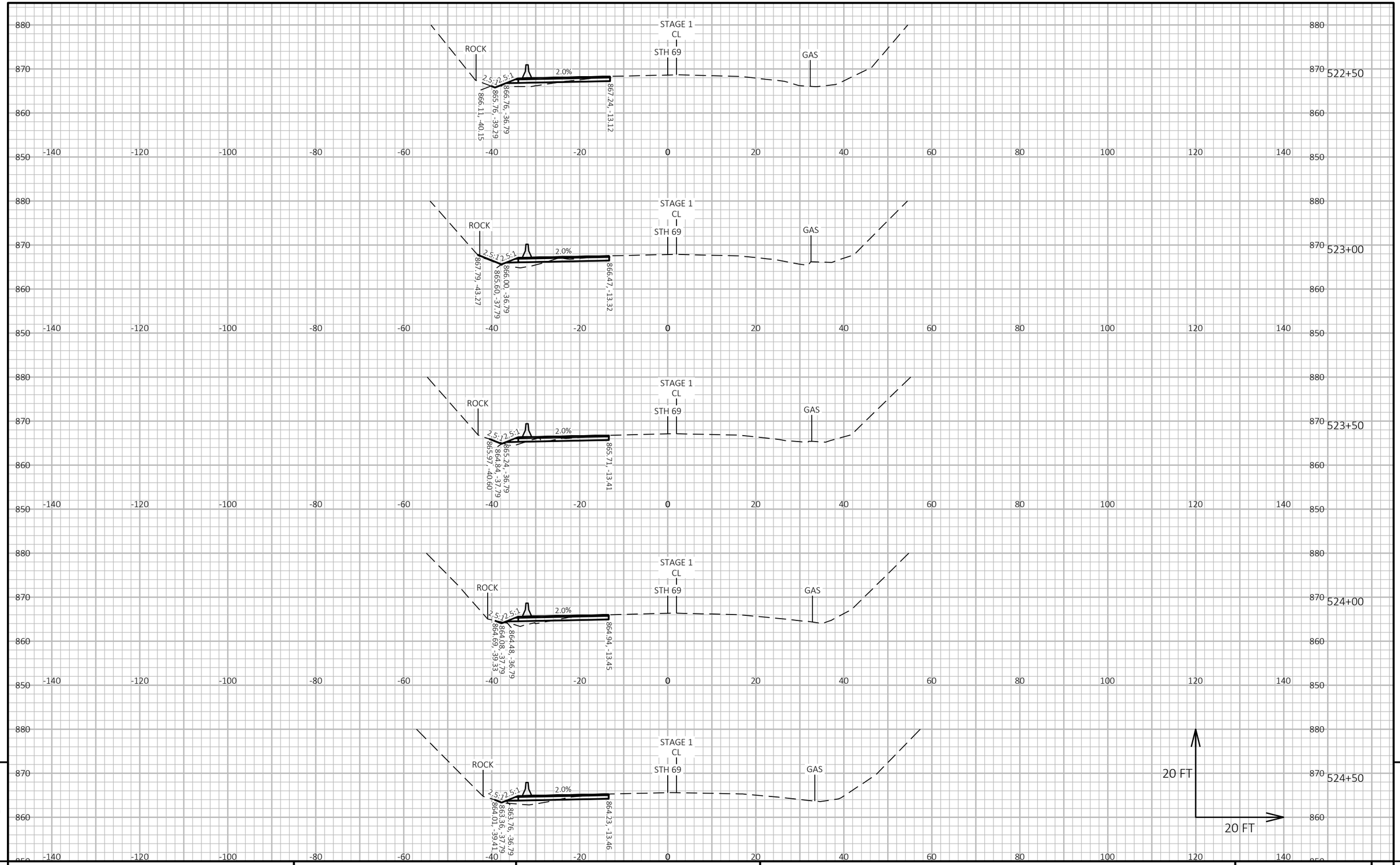


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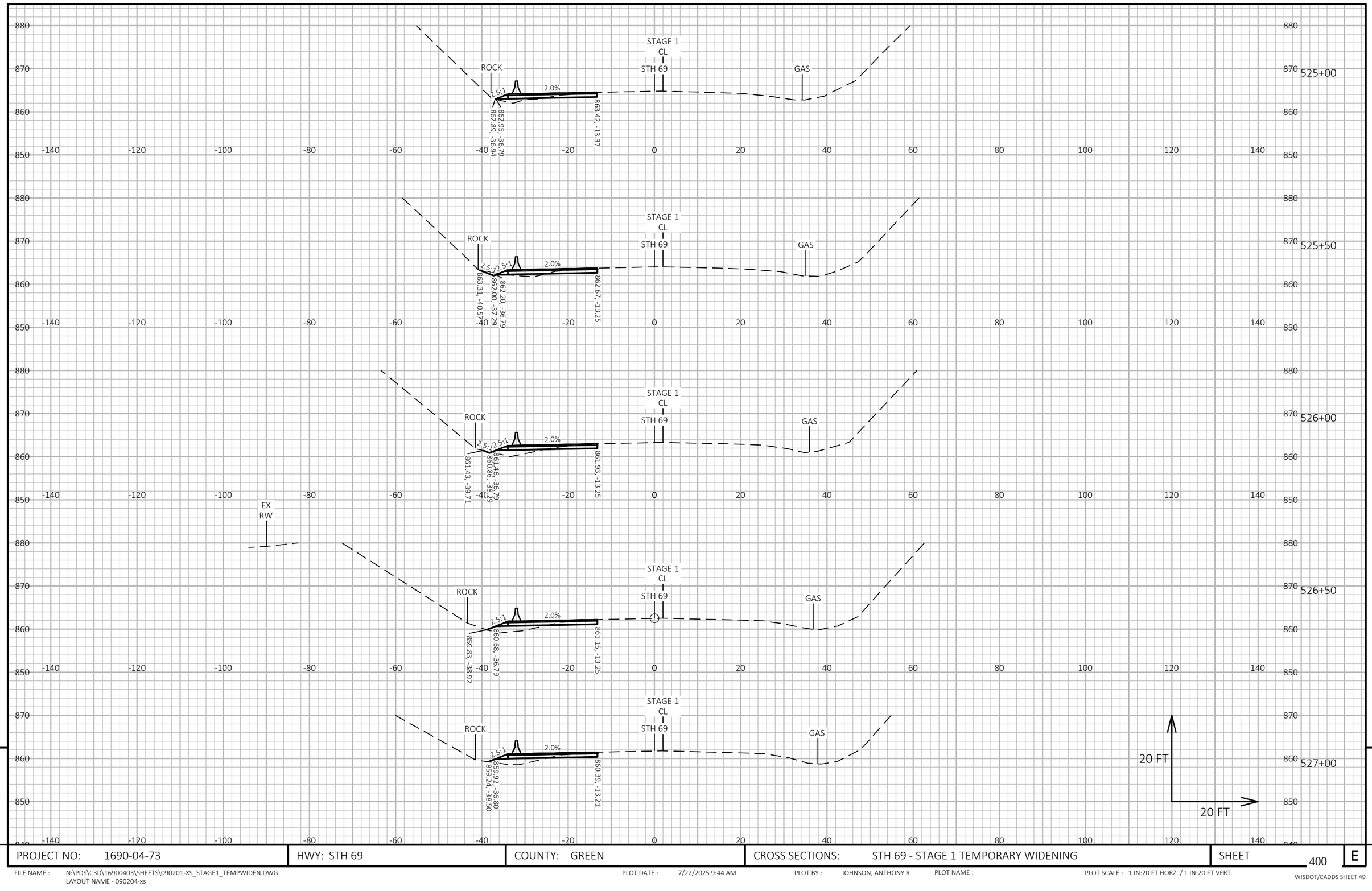
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 1 TEMPORARY WIDENING	SHEET 398	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-XS_STAGE1_TEMPWIDEN.DWG
LAYOUT NAME - 090202-xs
PLOT DATE : 7/22/2025 9:44 AM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 1 TEMPORARY WIDENING	SHEET 399	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-XS_STAGE1_TEMPWIDEN.DWG
LAYOUT NAME - 090203-xs
PLOT DATE : 7/22/2025 9:44 AM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 1 TEMPORARY WIDENING	SHEET 400	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-XS_STAGE1_TEMPWIDEN.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 7/22/2025 9:44 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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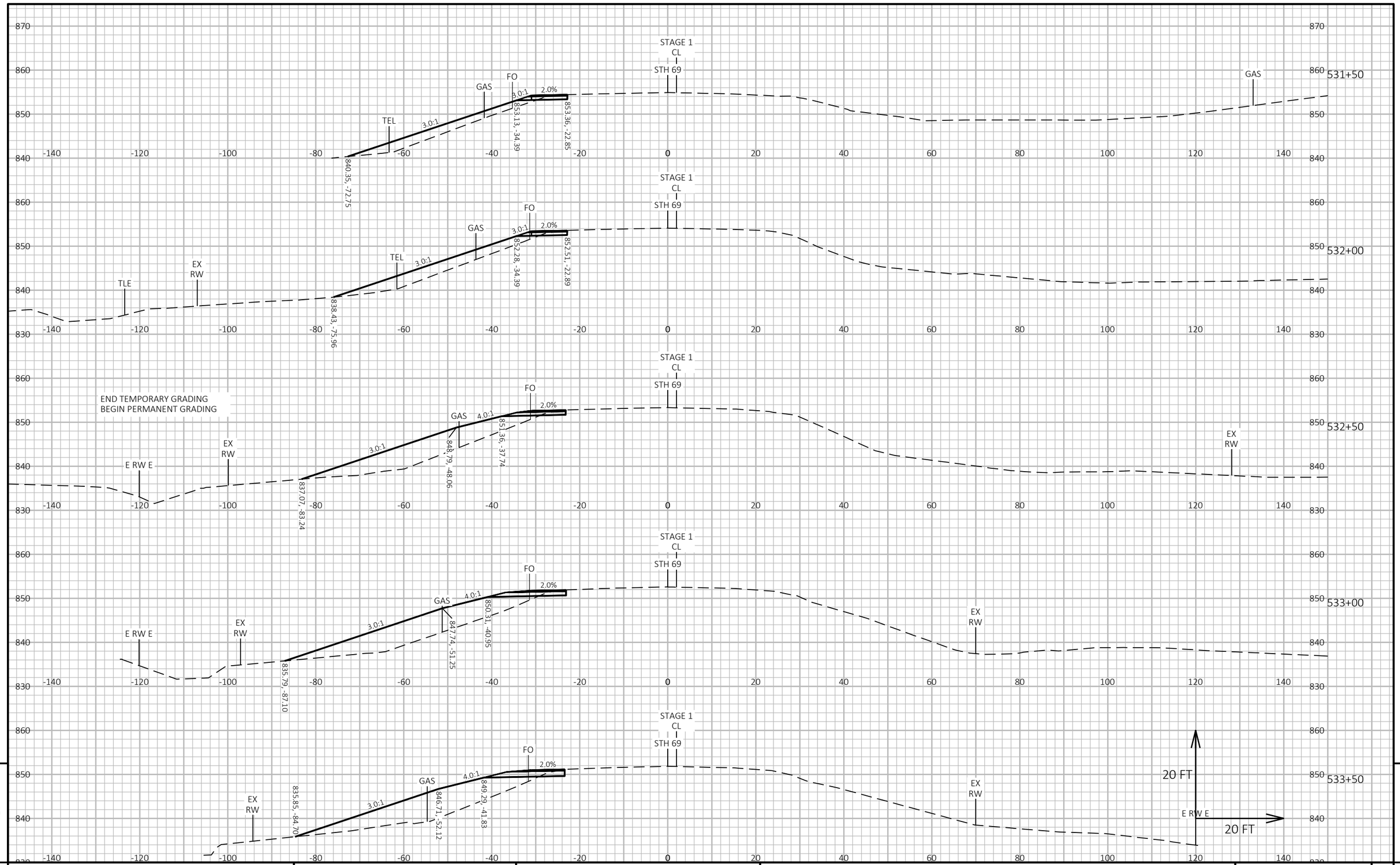
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 1 TEMPORARY WIDENING	SHEET 401	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-XS_STAGE1_TEMPWIDEN.DWG
LAYOUT NAME - 090205-xs

PLOT DATE : 7/22/2025 9:44 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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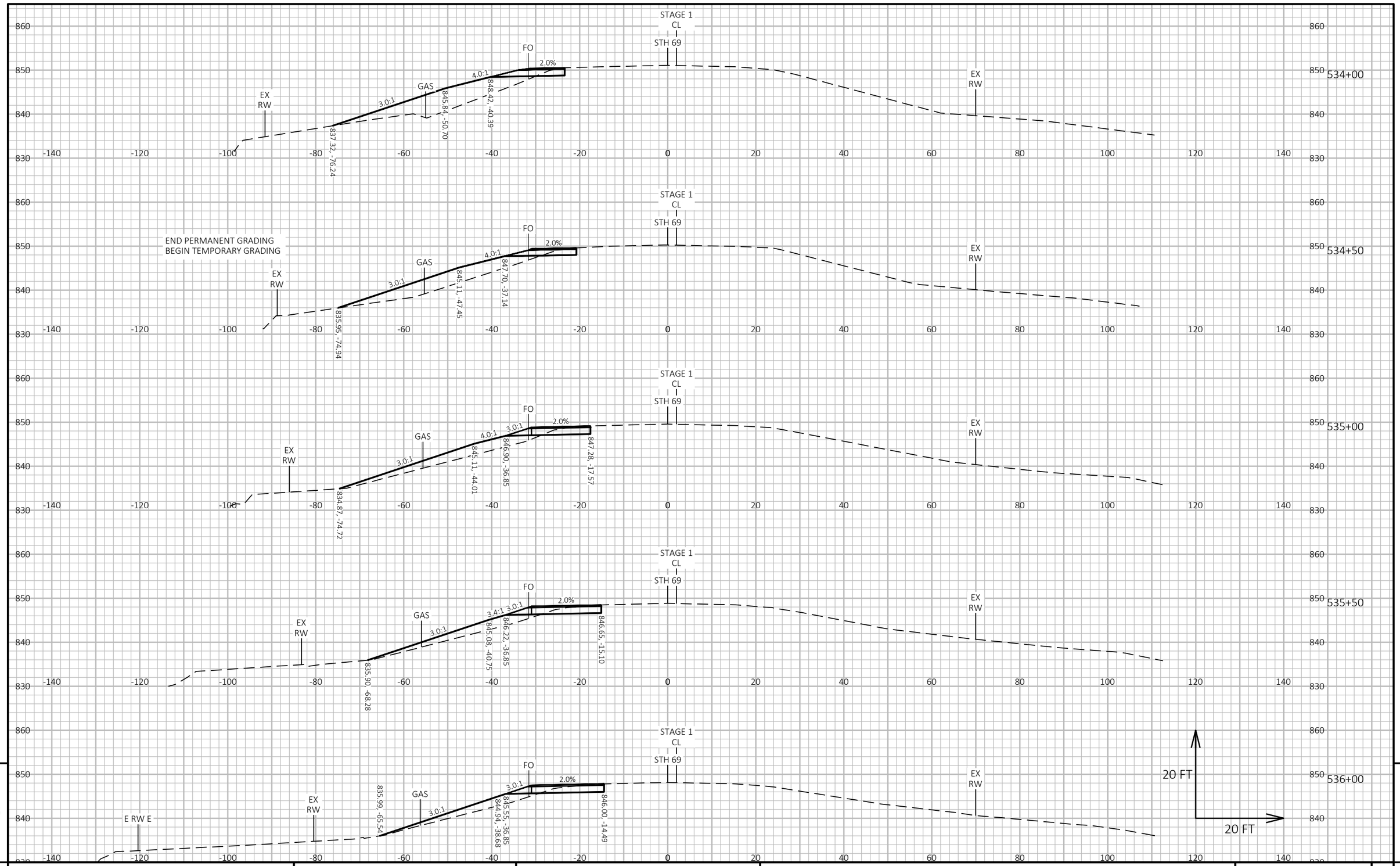
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 1 TEMPORARY WIDENING	SHEET 402	E

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FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-XS_STAGE1_TEMPWIDEN.DWG
LAYOUT NAME - 090206-xs

PLOT DATE : 7/22/2025 9:44 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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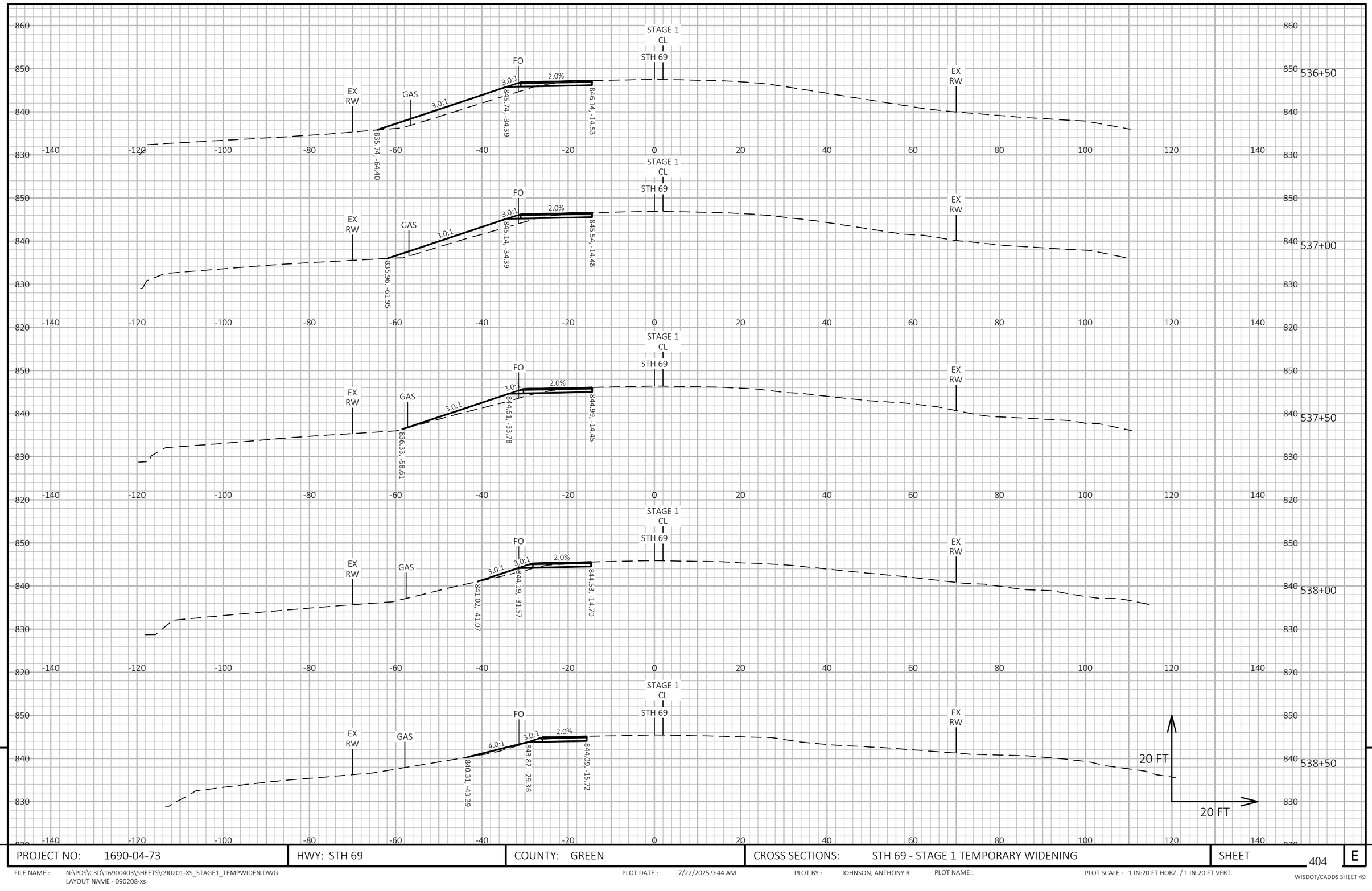
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 1 TEMPORARY WIDENING	SHEET 403	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-XS_STAGE1_TEMPWIDEN.DWG
LAYOUT NAME - 090207-xs

PLOT DATE : 7/22/2025 9:44 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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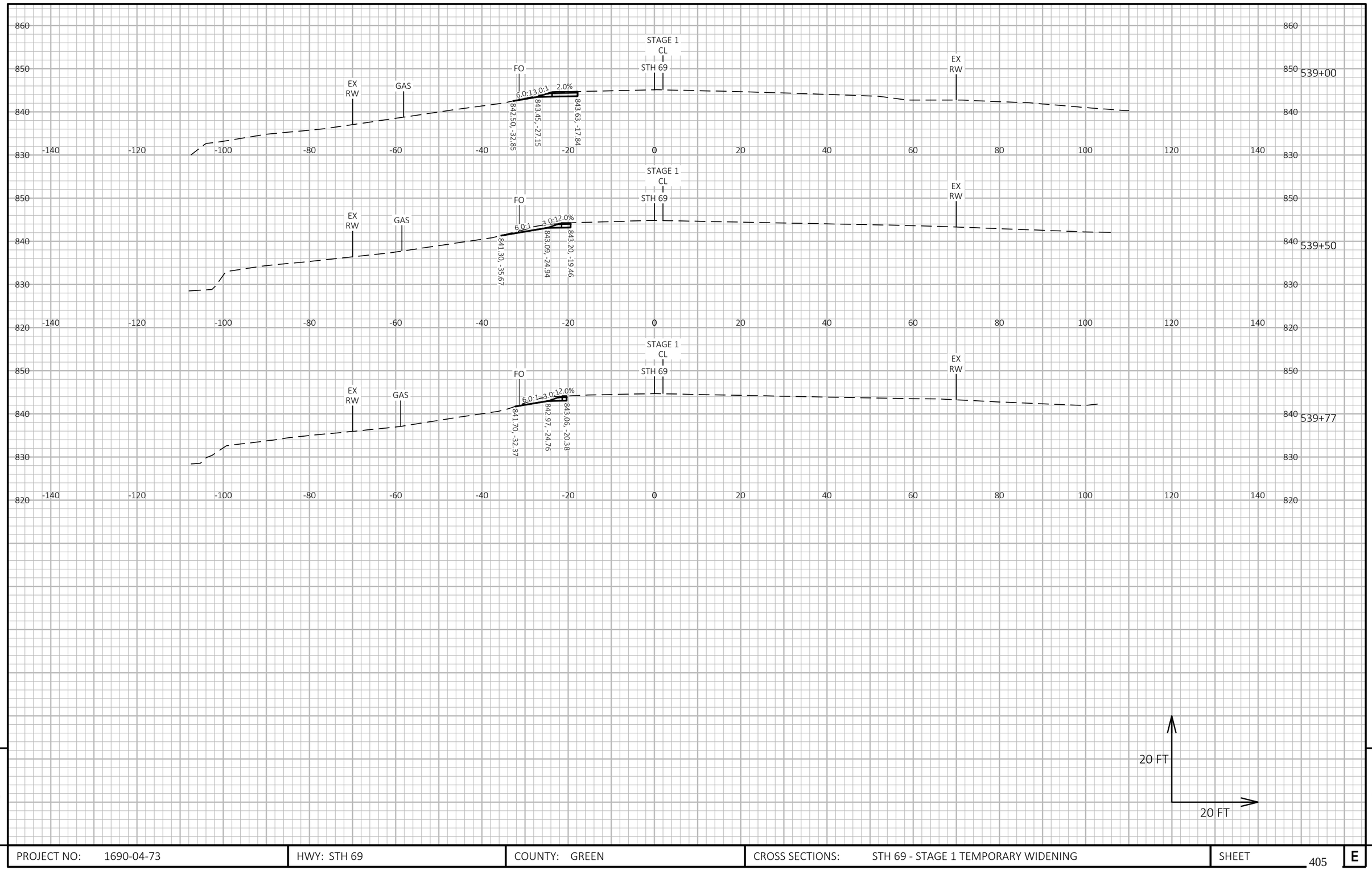
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 1 TEMPORARY WIDENING	SHEET 404	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-XS_STAGE1_TEMPWIDEN.DWG
LAYOUT NAME - 090208-xs

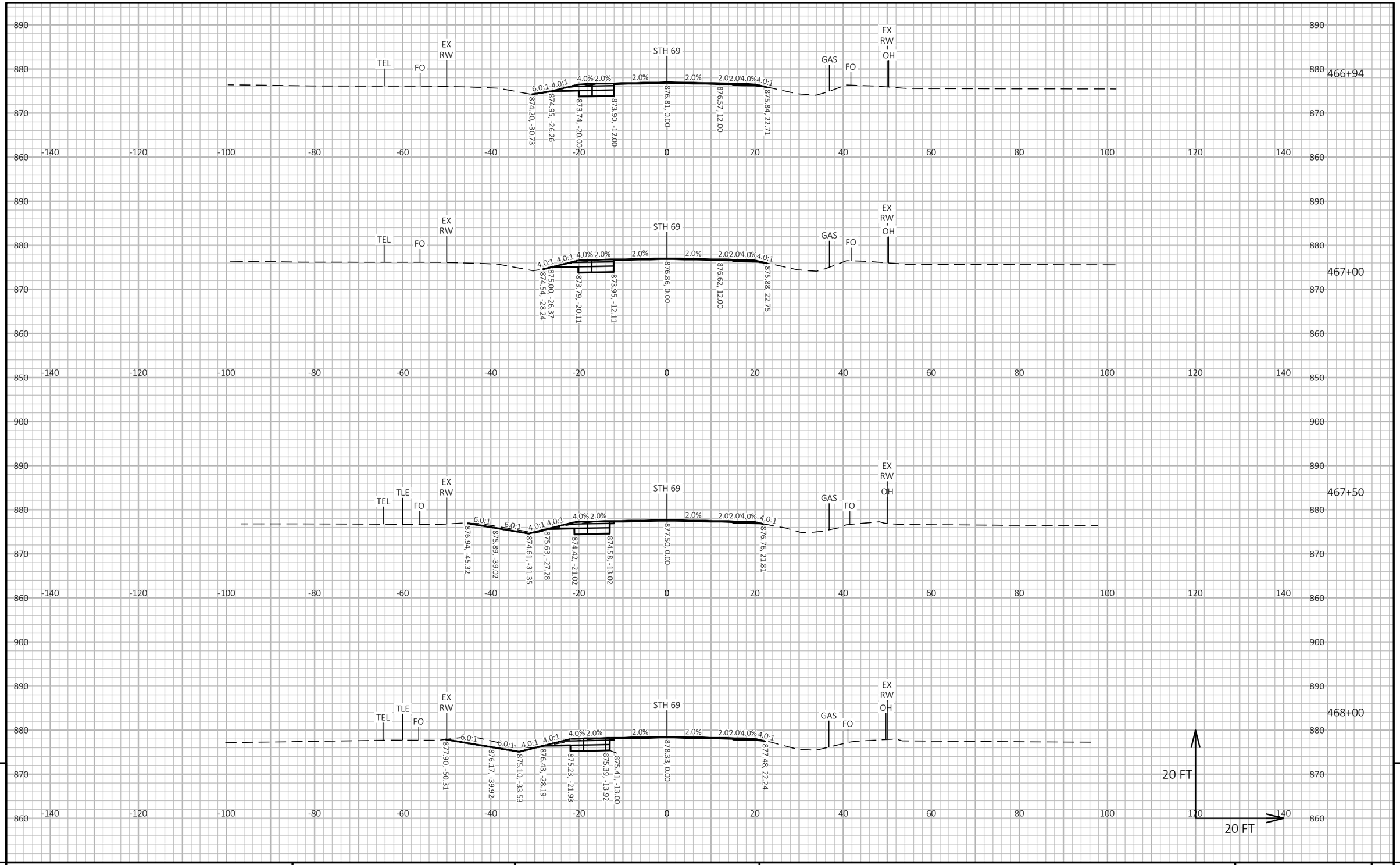
PLOT DATE : 7/22/2025 9:44 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 1 TEMPORARY WIDENING	SHEET 405	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090201-XS_STAGE1_TEMPWIDEN.DWG
LAYOUT NAME - 090209-xs
PLOT DATE : 7/22/2025 9:44 AM
PLOT BY : JOHNSON, ANTHONY R
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 406	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090210-xs

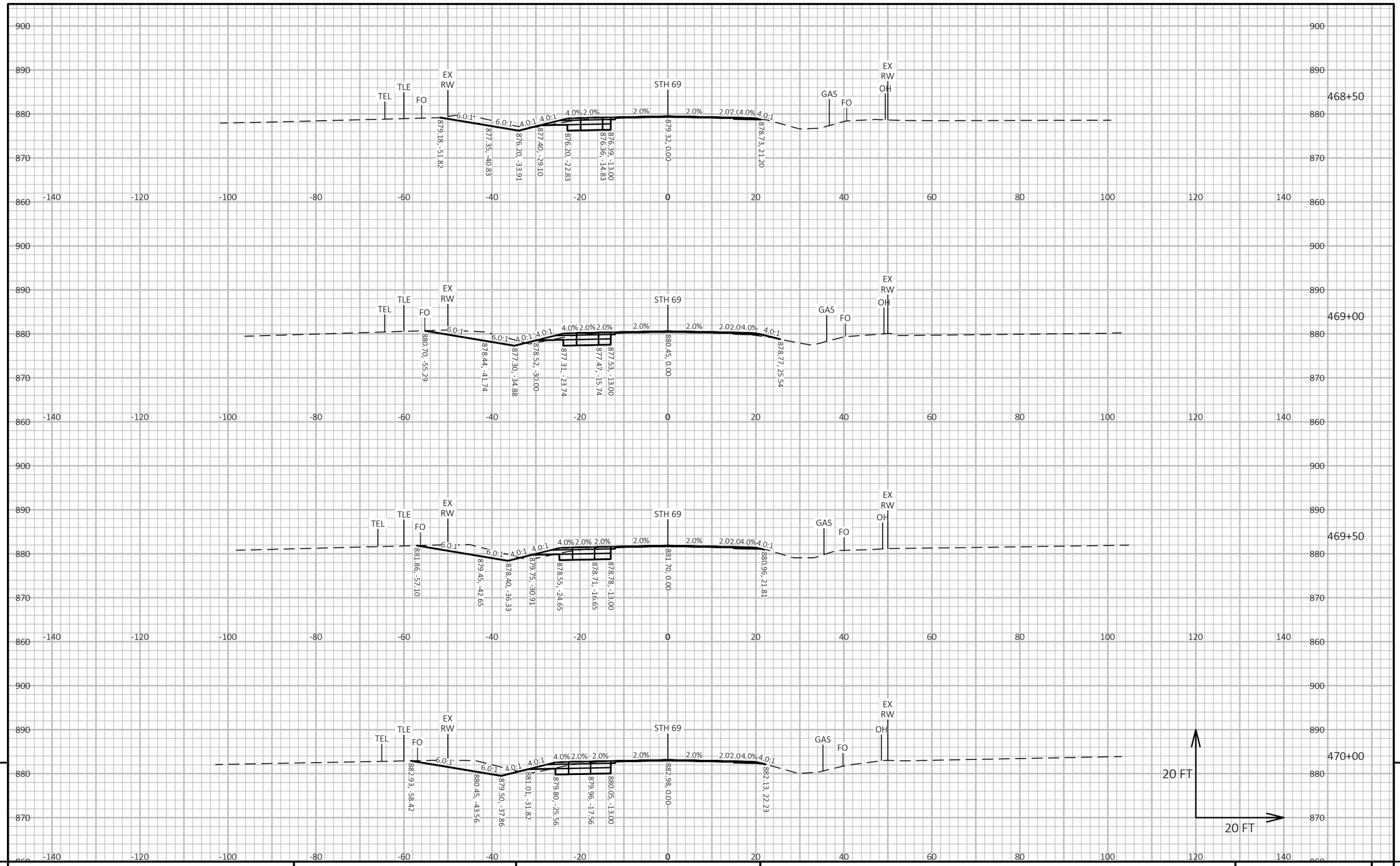
PLOT DATE : 7/28/2025 8:48 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 407	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090211-xs

PLOT DATE : 7/28/2025 8:48 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 408	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090212-xs

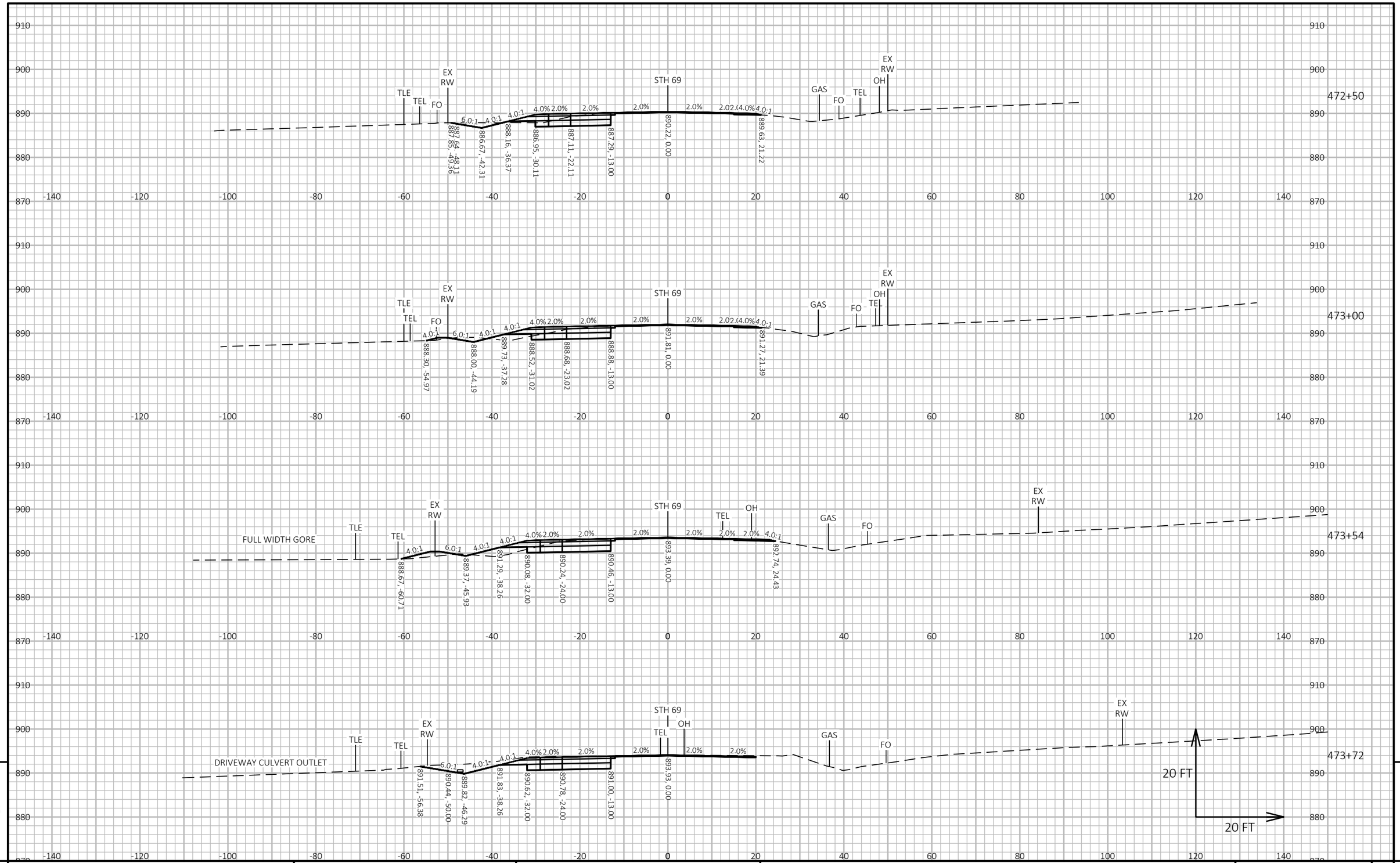
PLOT DATE : 7/28/2025 8:48 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 409	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090213-xs

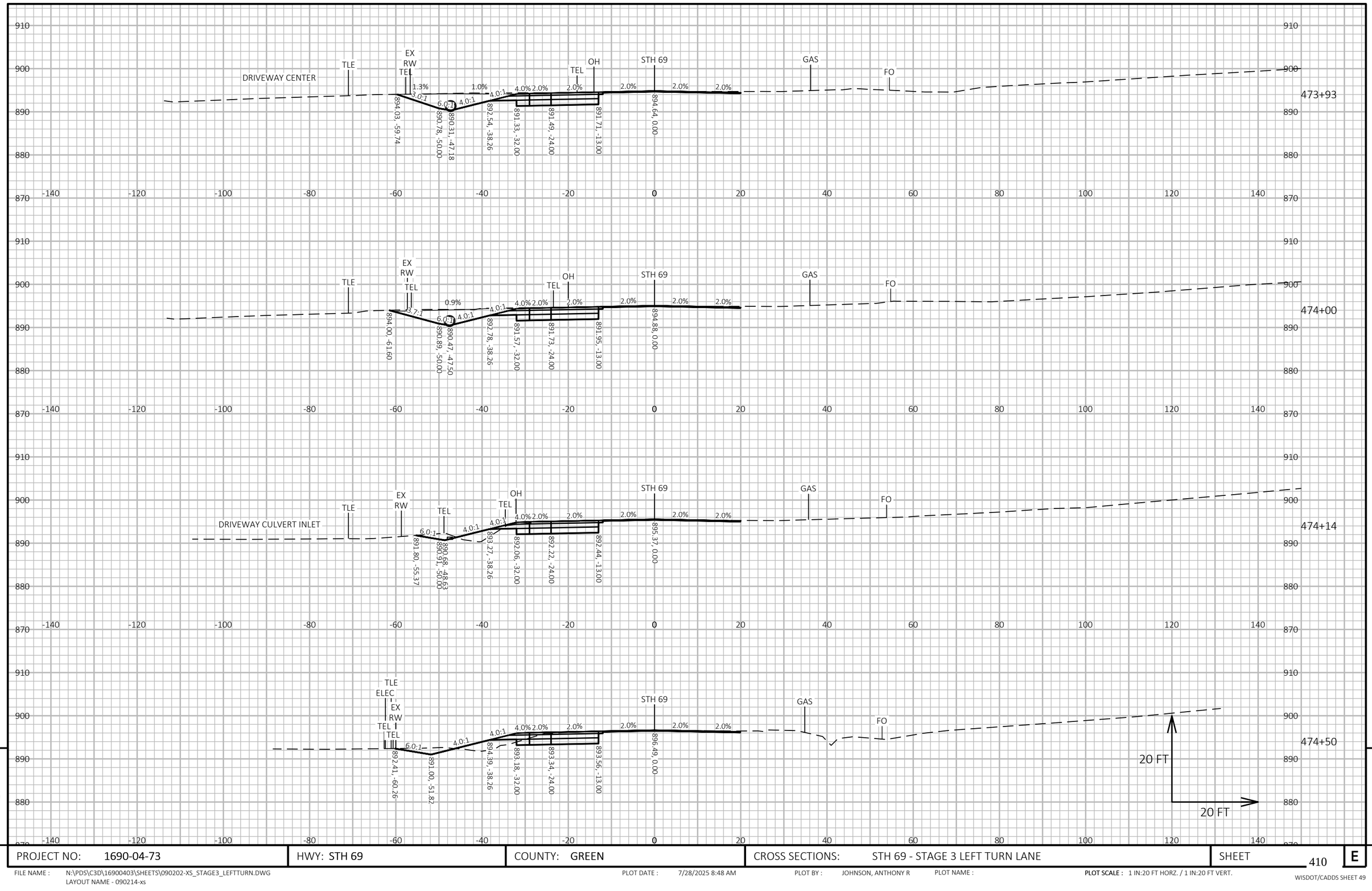
PLOT DATE : 7/28/2025 8:48 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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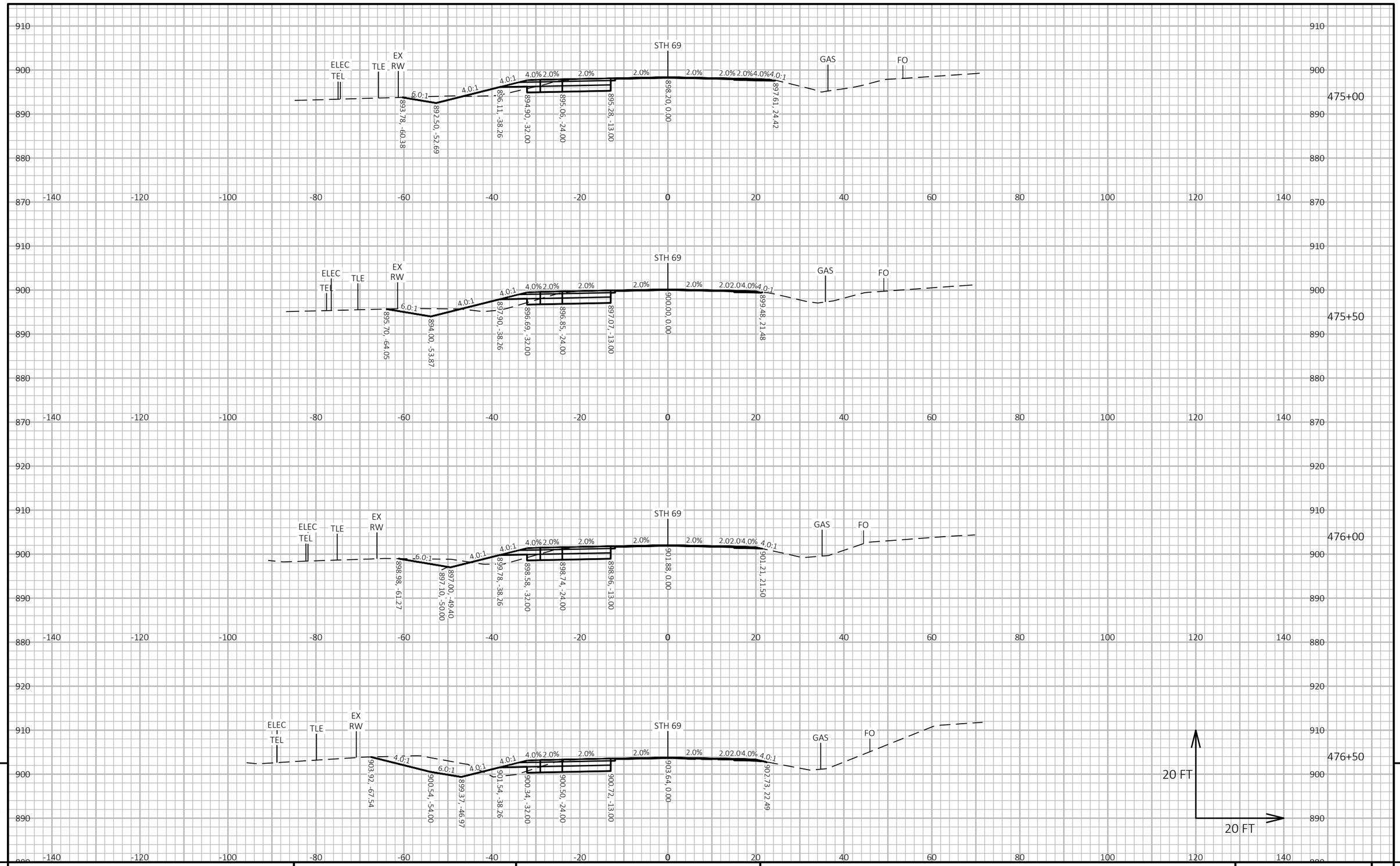
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 410	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090214-xs

PLOT DATE : 7/28/2025 8:48 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

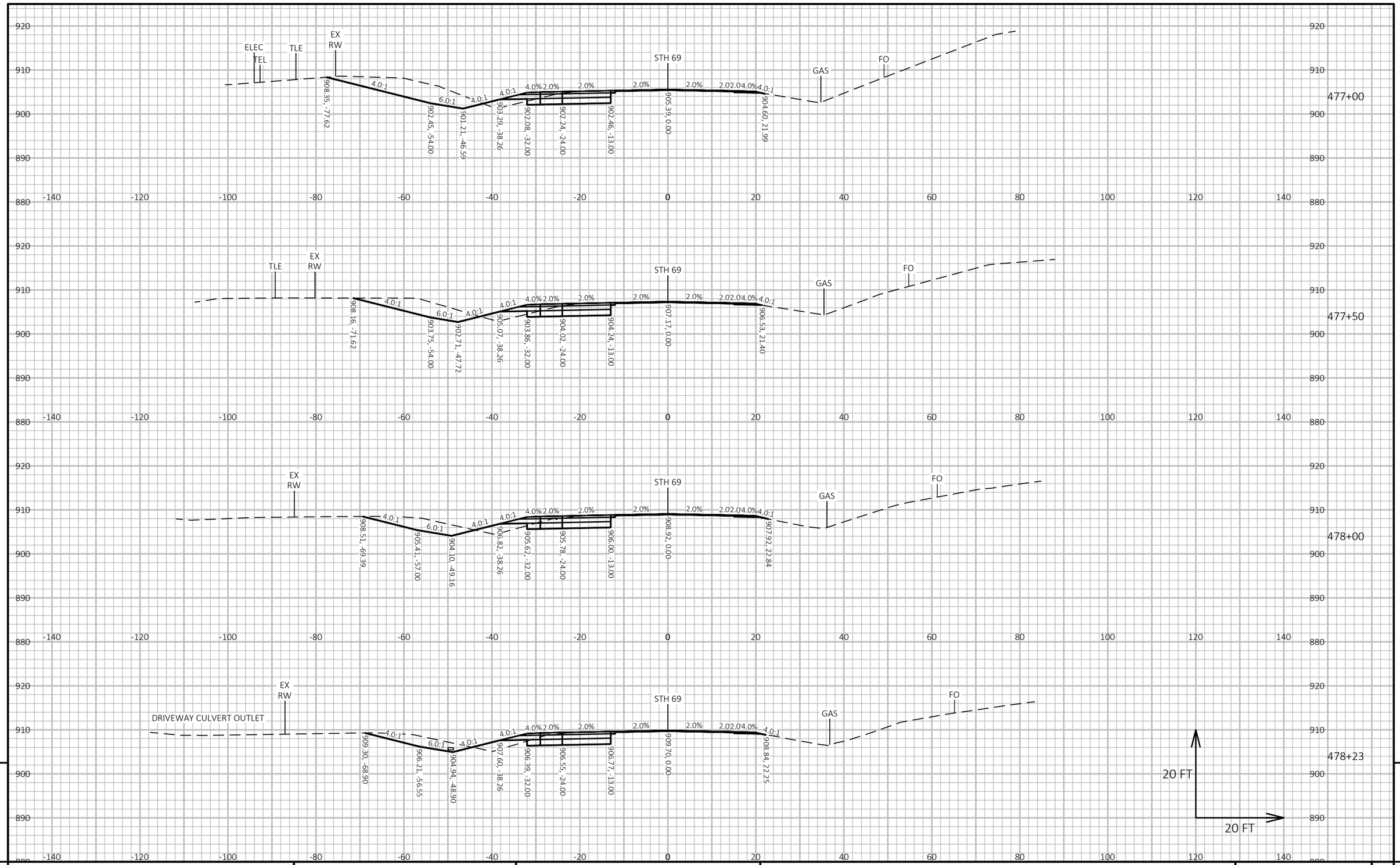


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 411	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090215-xs

PLOT DATE : 7/28/2025 8:48 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : **PLOT SCALE :** 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

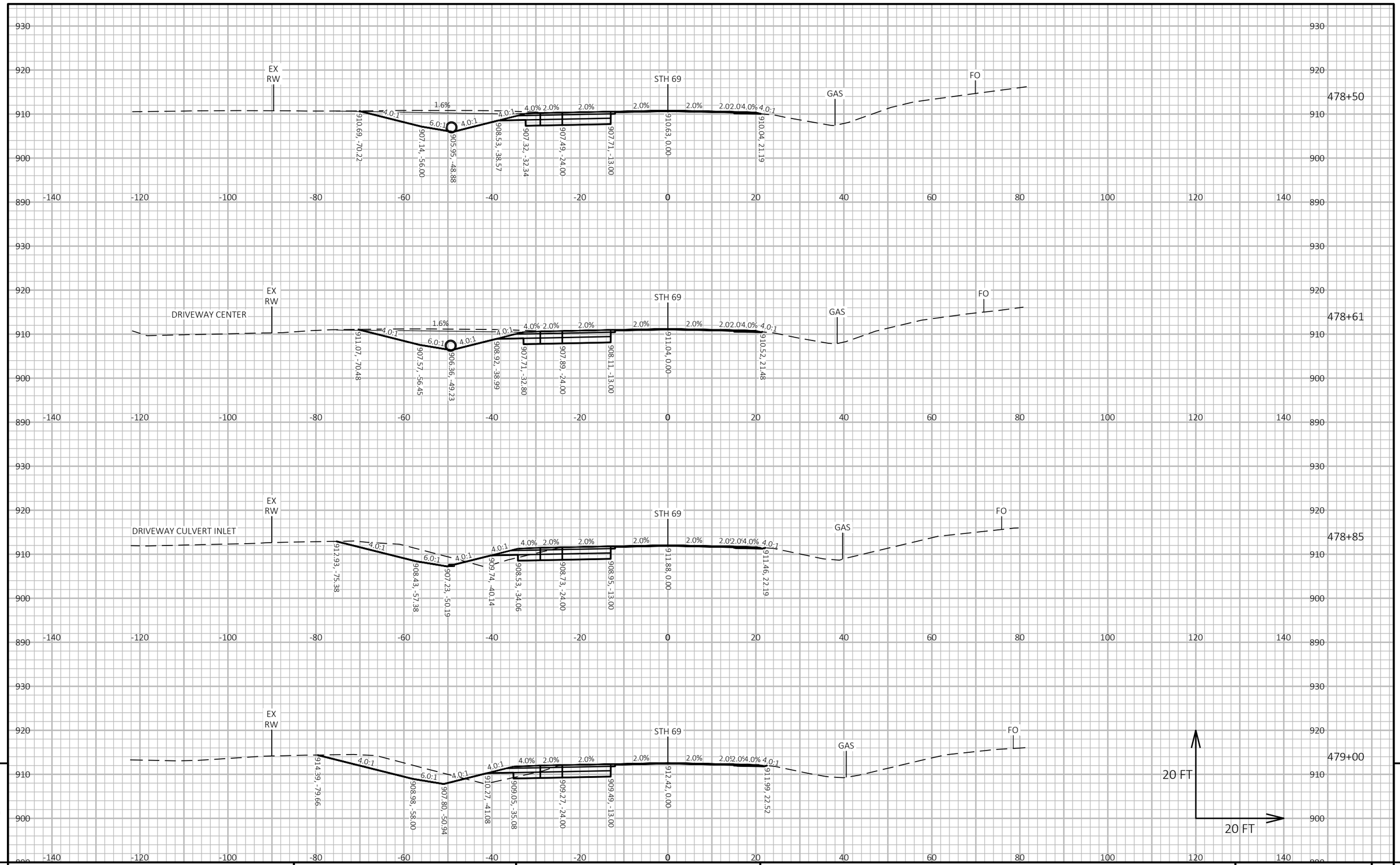


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 412	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090216-xs

PLOT DATE : 7/28/2025 8:48 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : **PLOT SCALE :** 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 413	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090217-xs

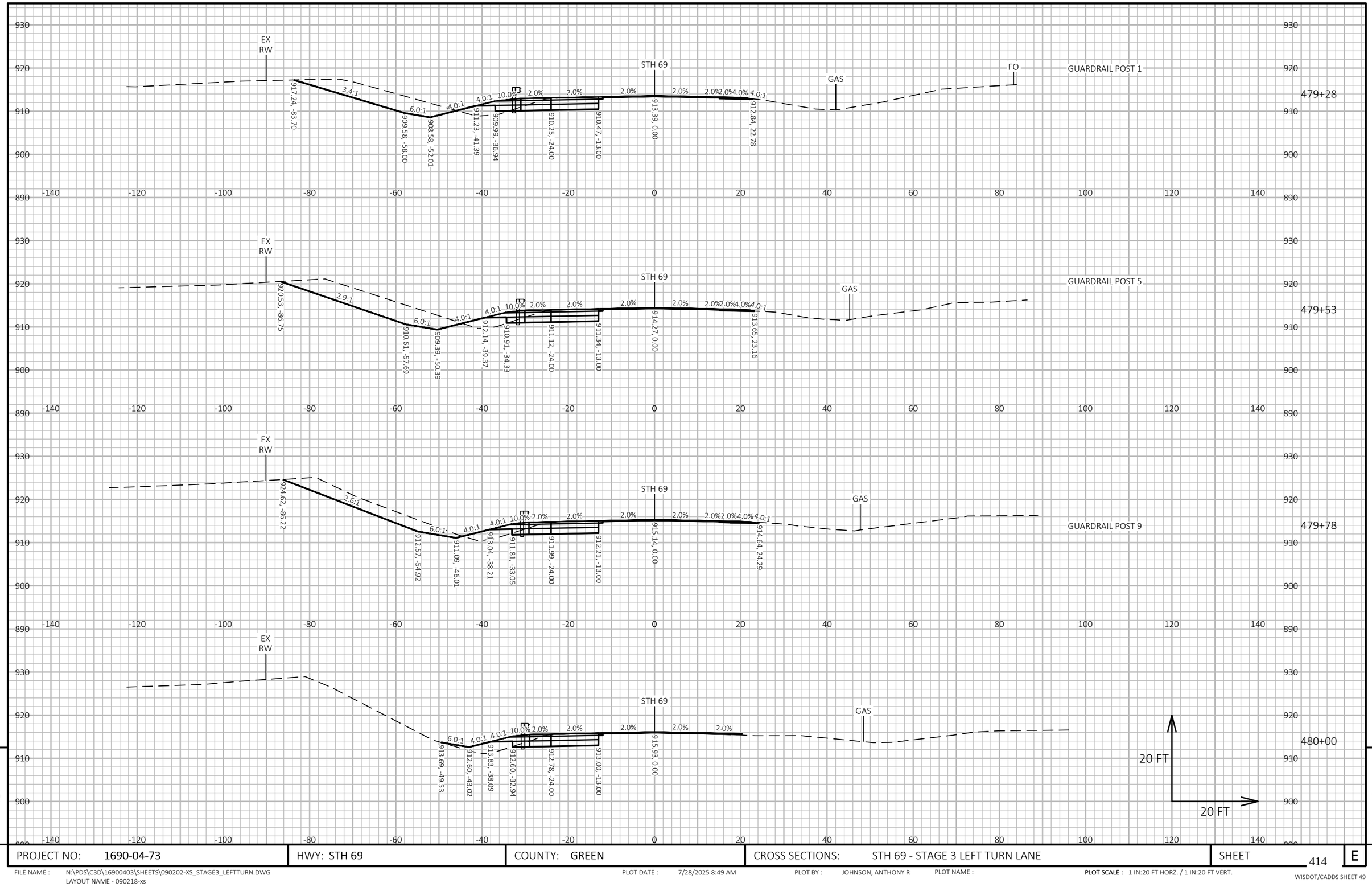
PLOT DATE : 7/28/2025 8:49 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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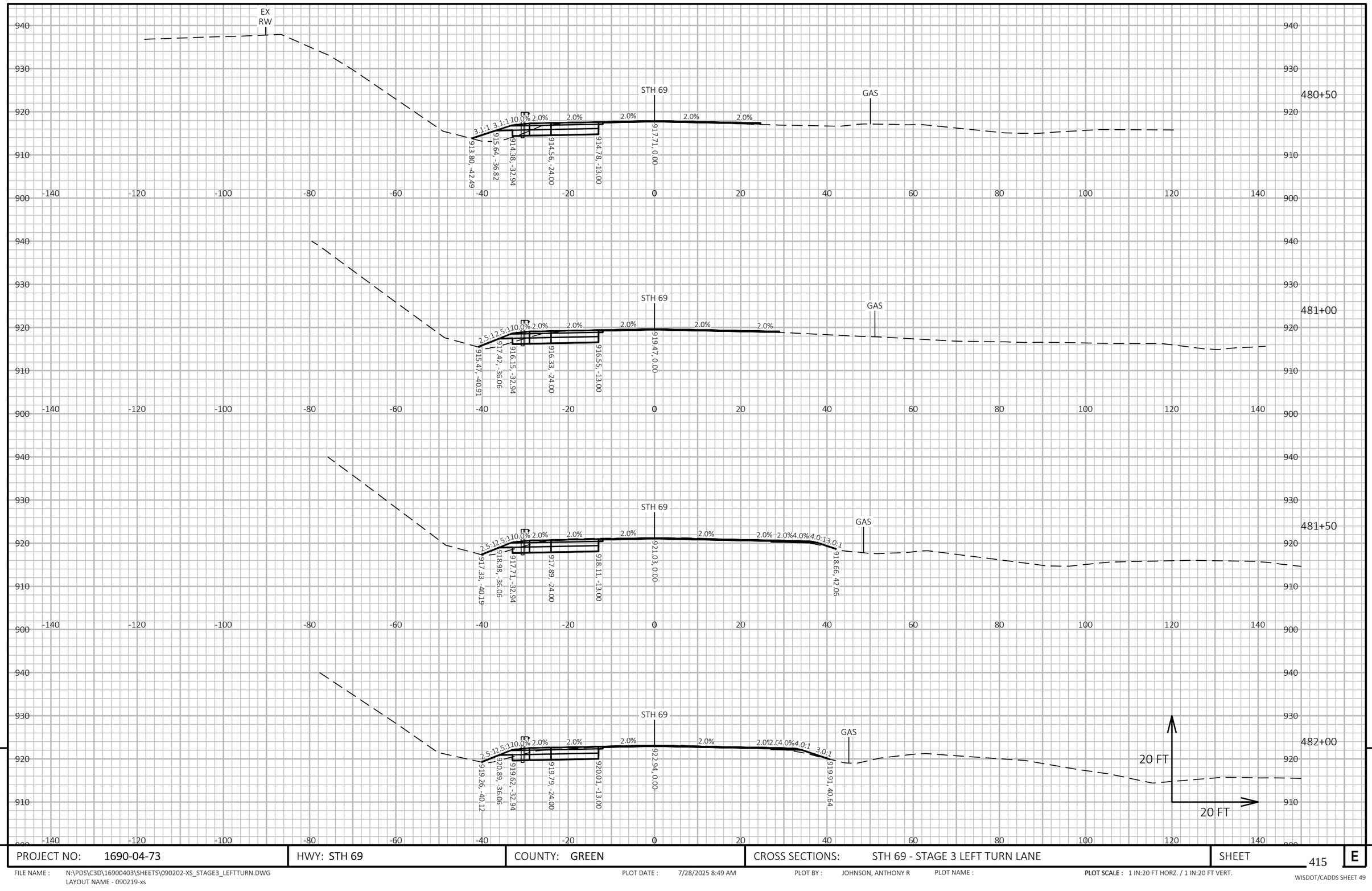
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 414	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090218-xs

PLOT DATE : 7/28/2025 8:49 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : **PLOT SCALE :** 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



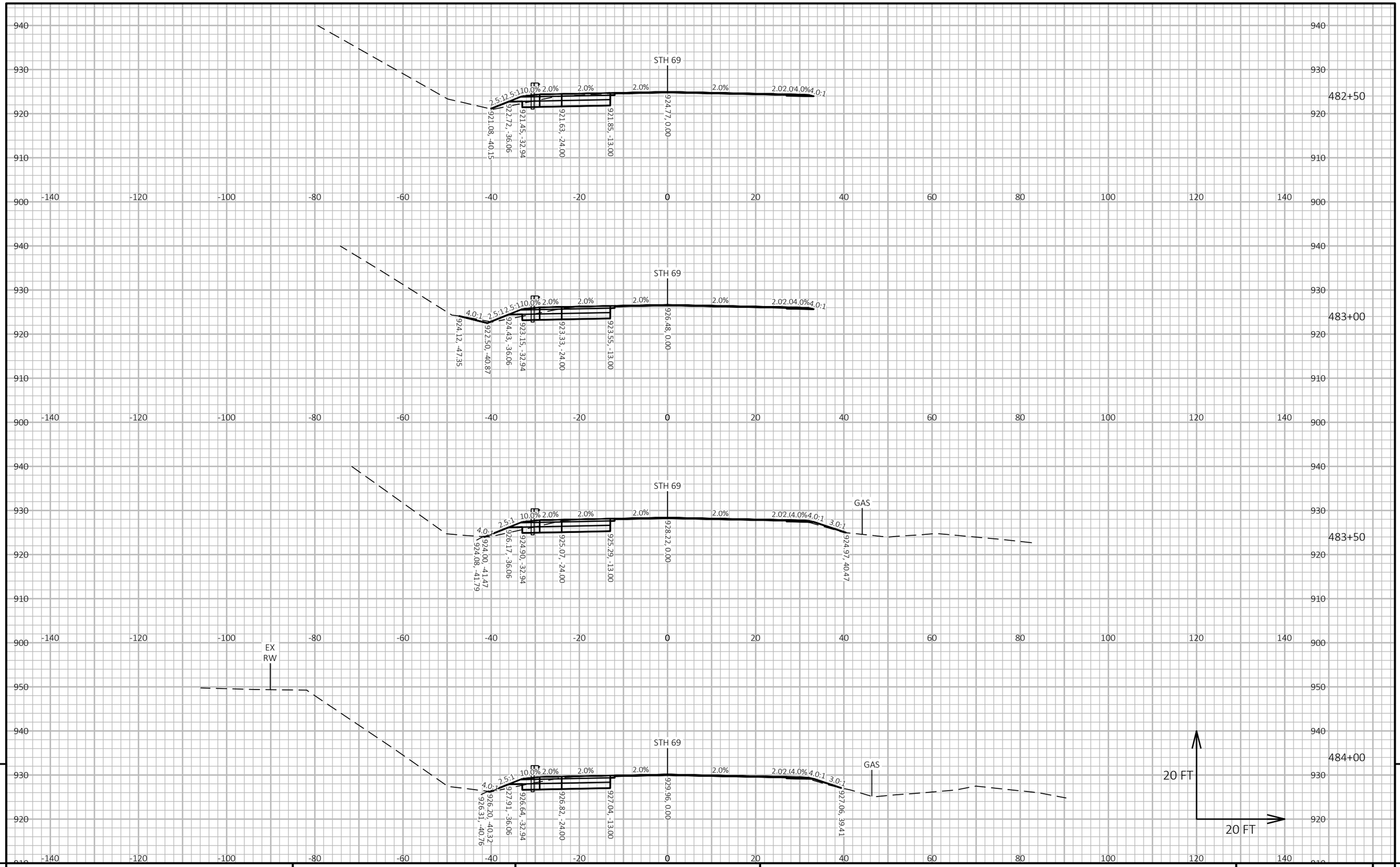
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 415	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090219-xs

PLOT DATE : 7/28/2025 8:49 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 416	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090220-xs

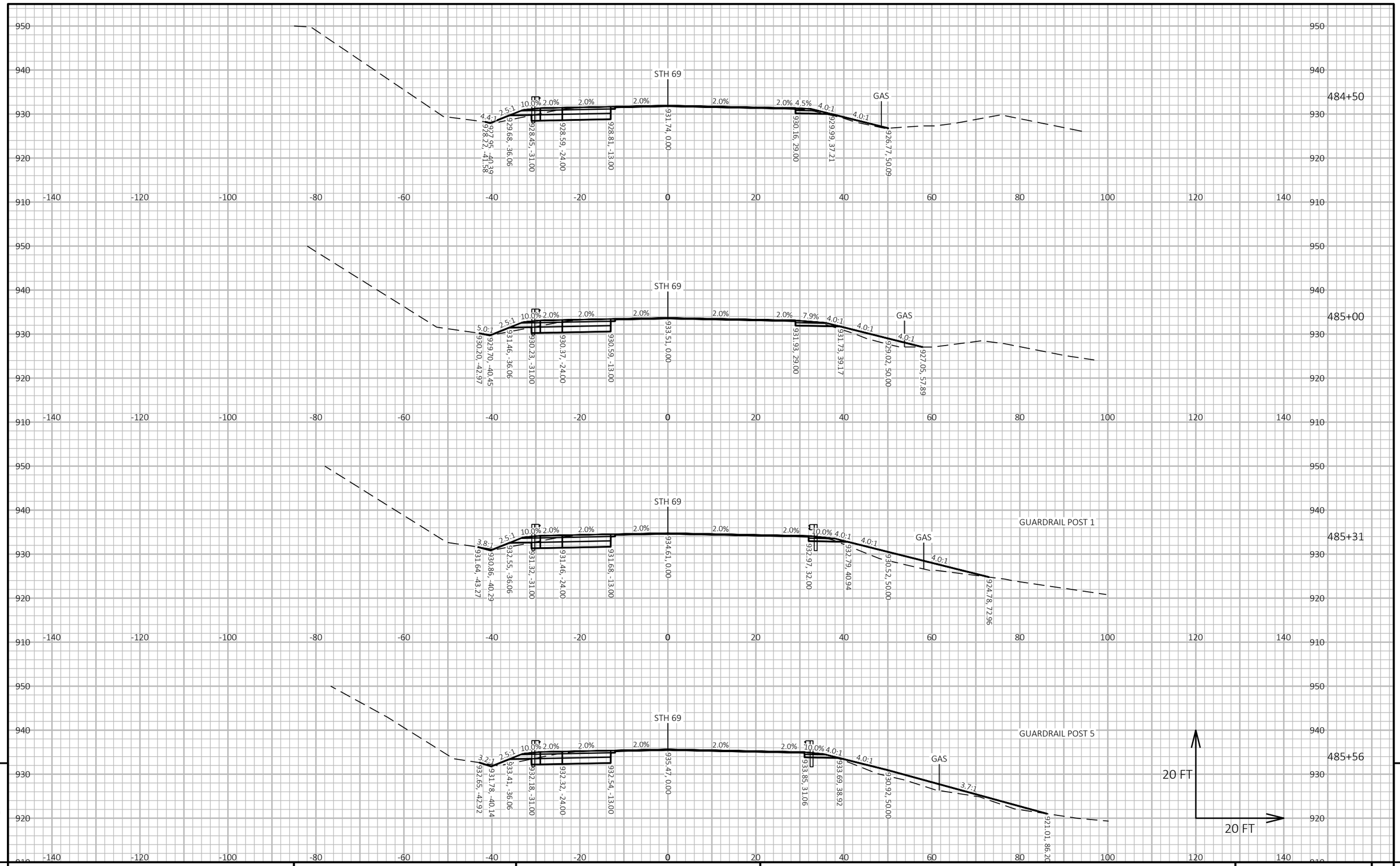
PLOT DATE : 7/28/2025 8:49 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 417	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090221-xs

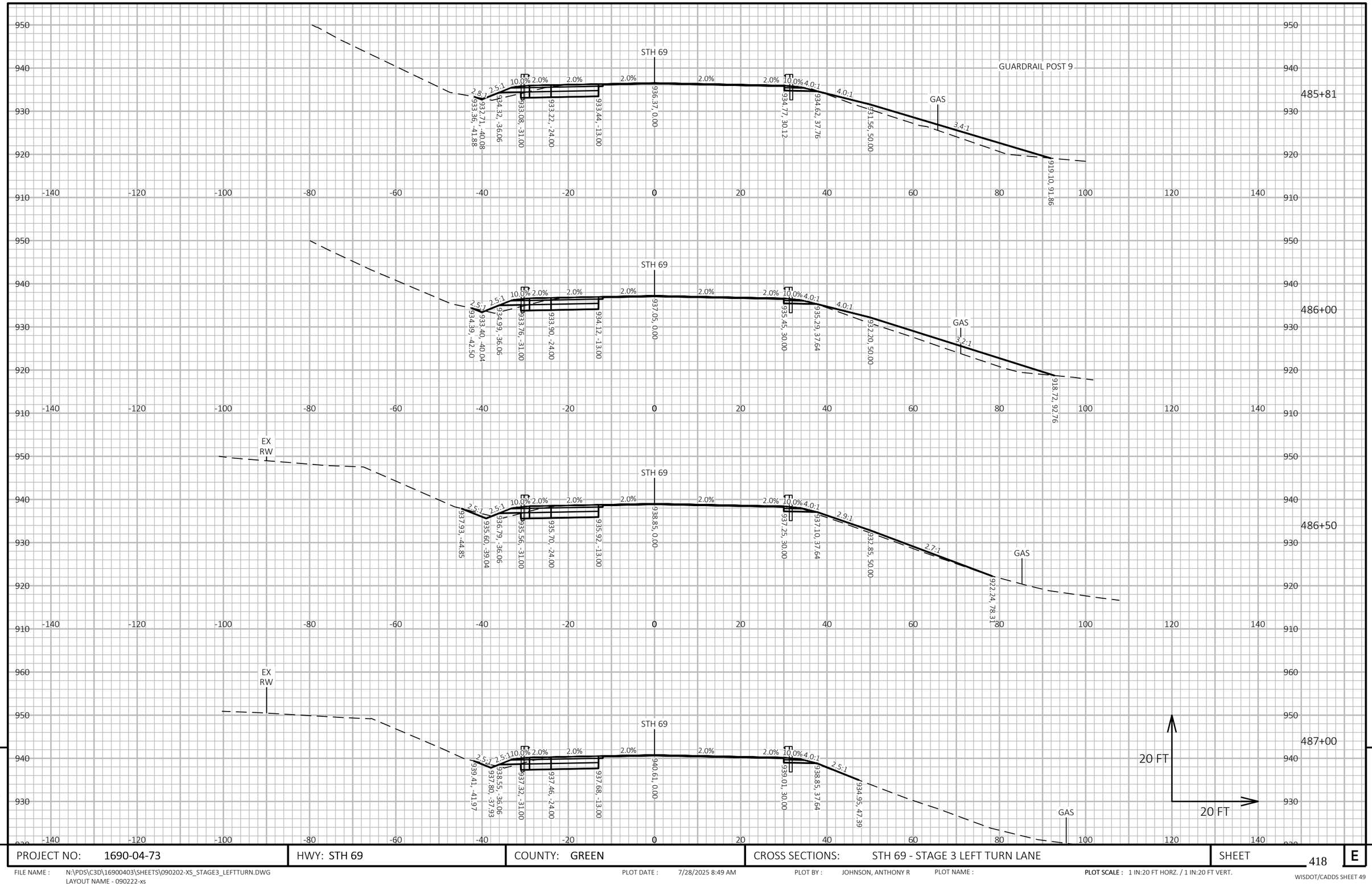
PLOT DATE : 7/28/2025 8:49 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

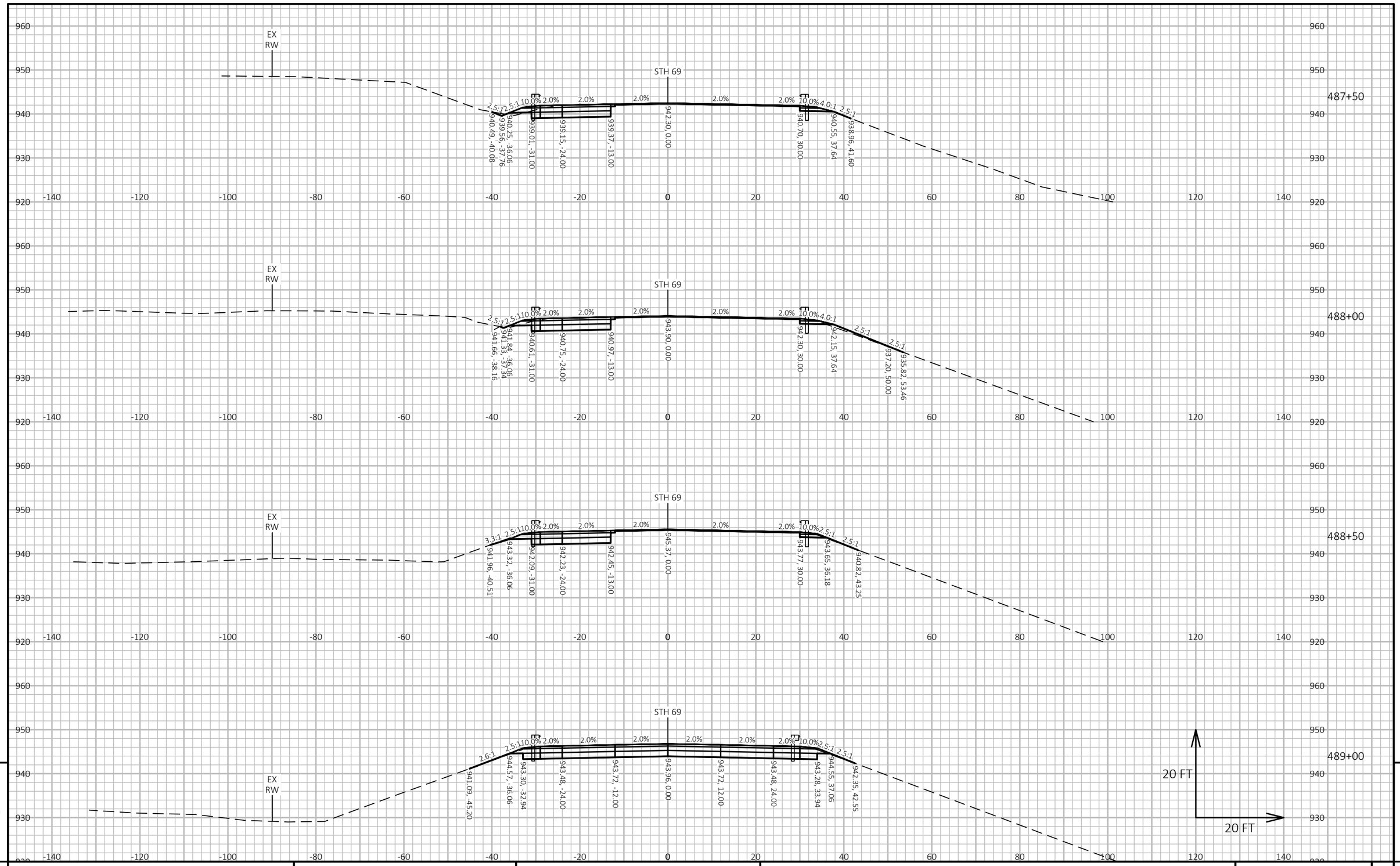


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 418	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090222-xs

PLOT DATE : 7/28/2025 8:49 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : **PLOT SCALE :** 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 419	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090223-xs

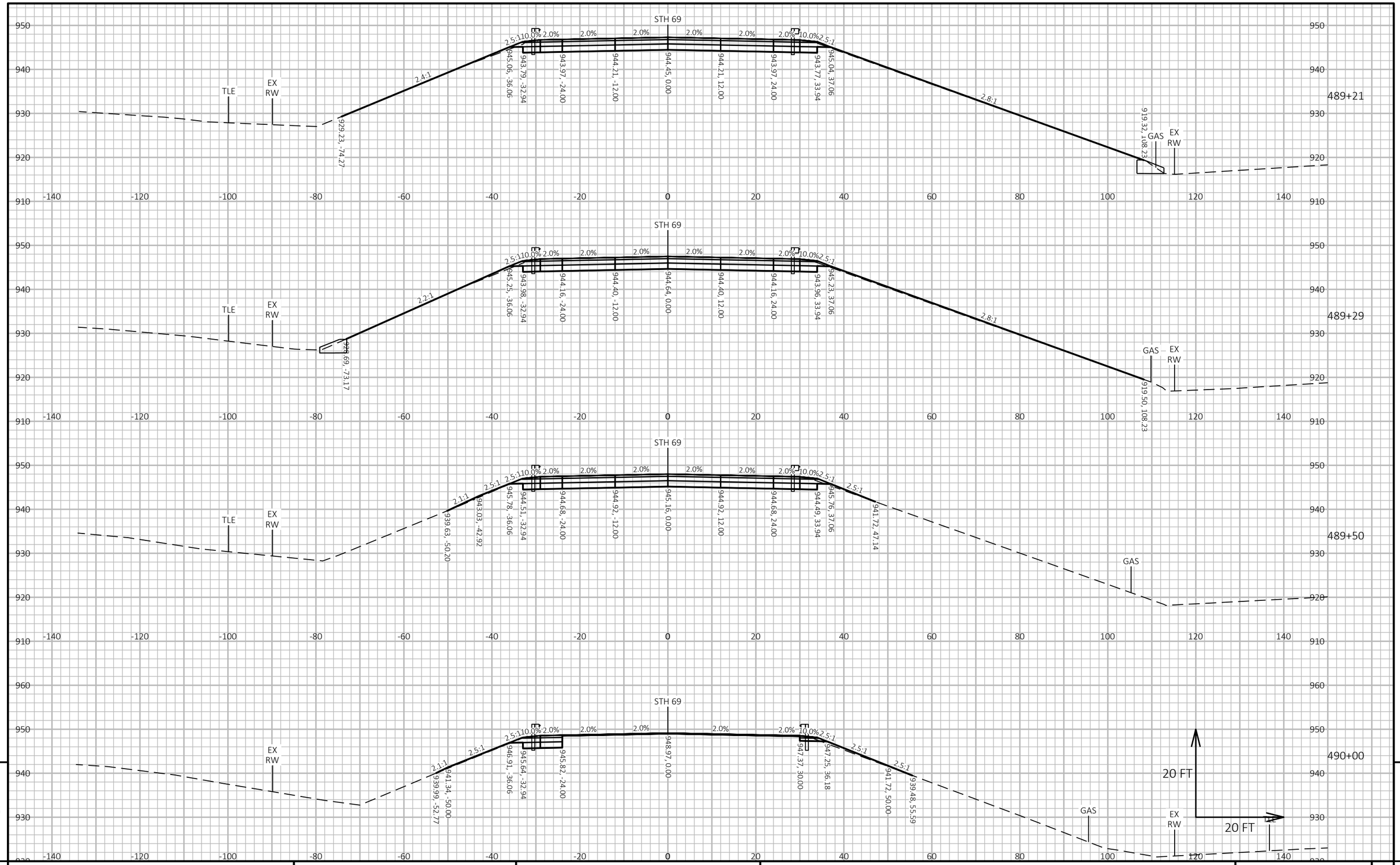
PLOT DATE : 7/28/2025 8:49 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 420	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090224-xs

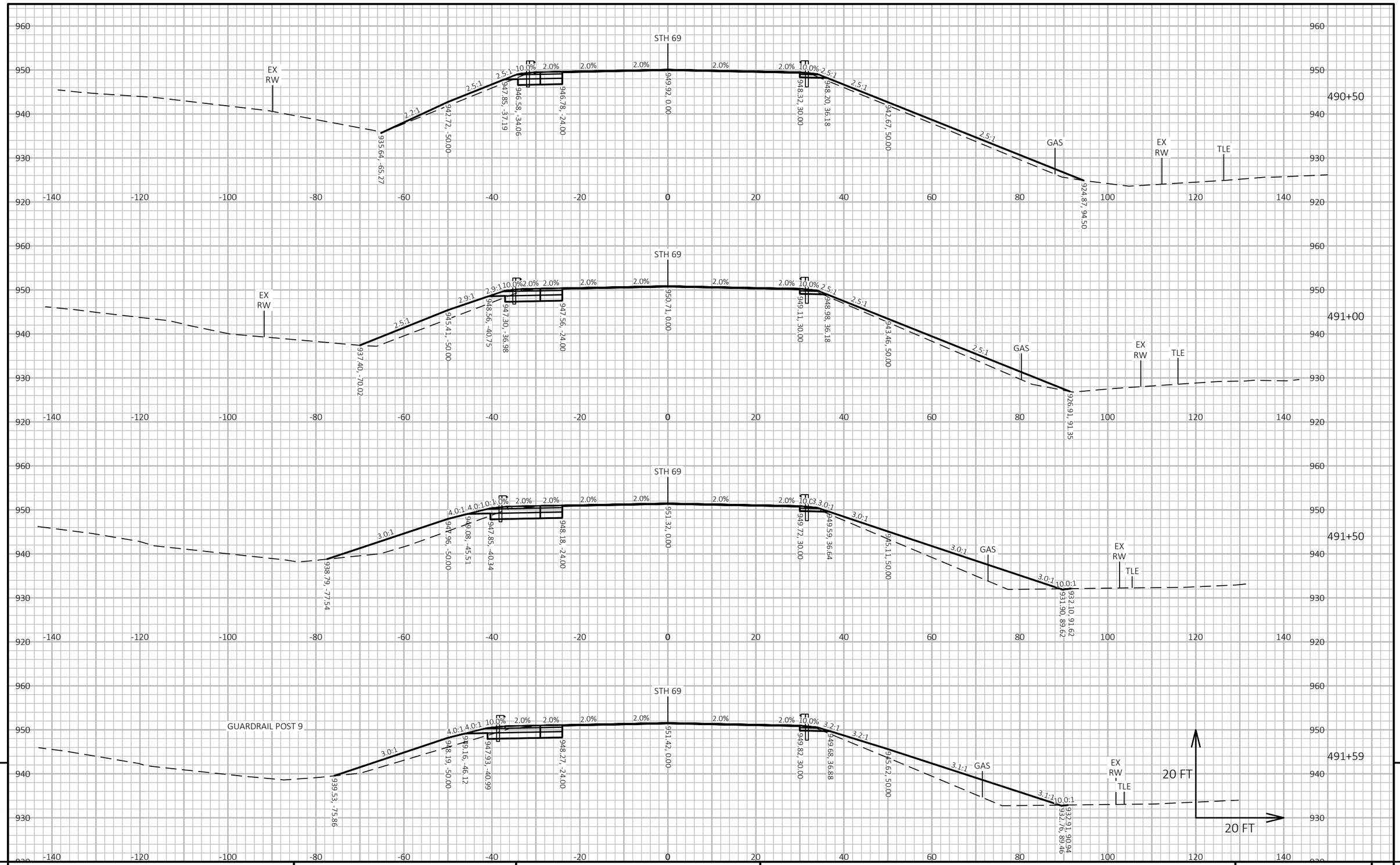
PLOT DATE : 7/28/2025 8:49 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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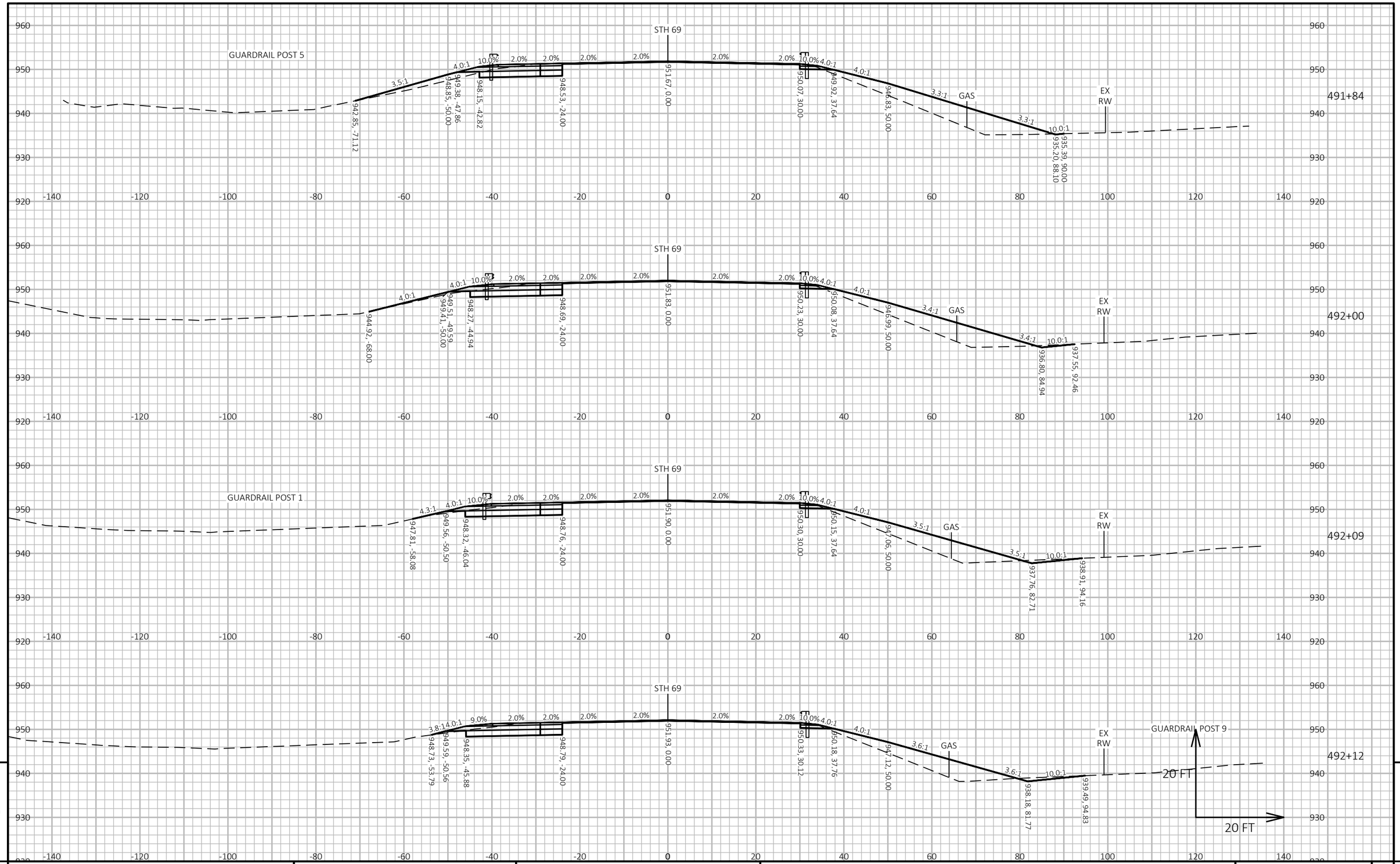
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 421	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090225-xs

PLOT DATE : 7/28/2025 8:49 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 422	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090226-xs

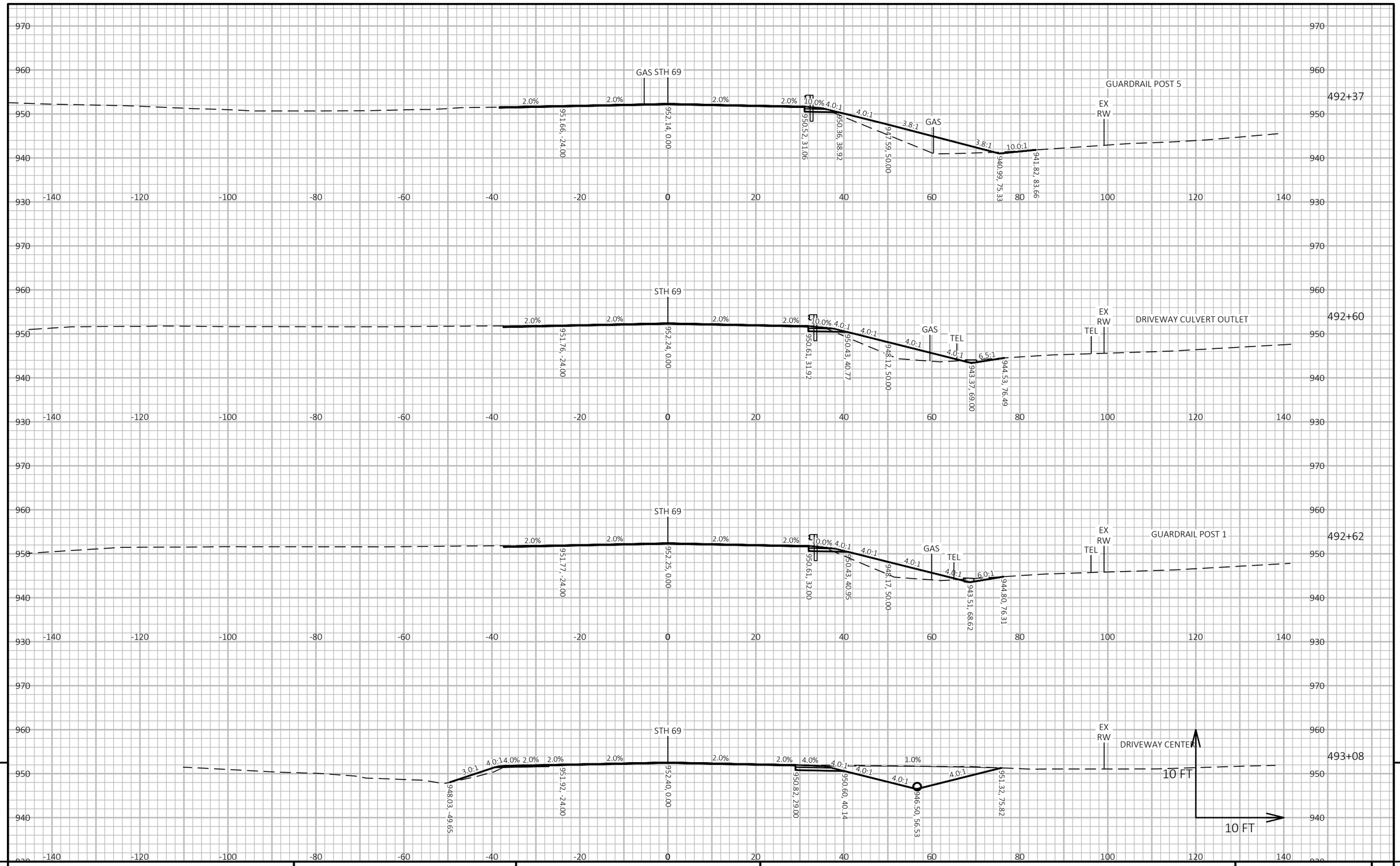
PLOT DATE : 7/28/2025 8:49 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

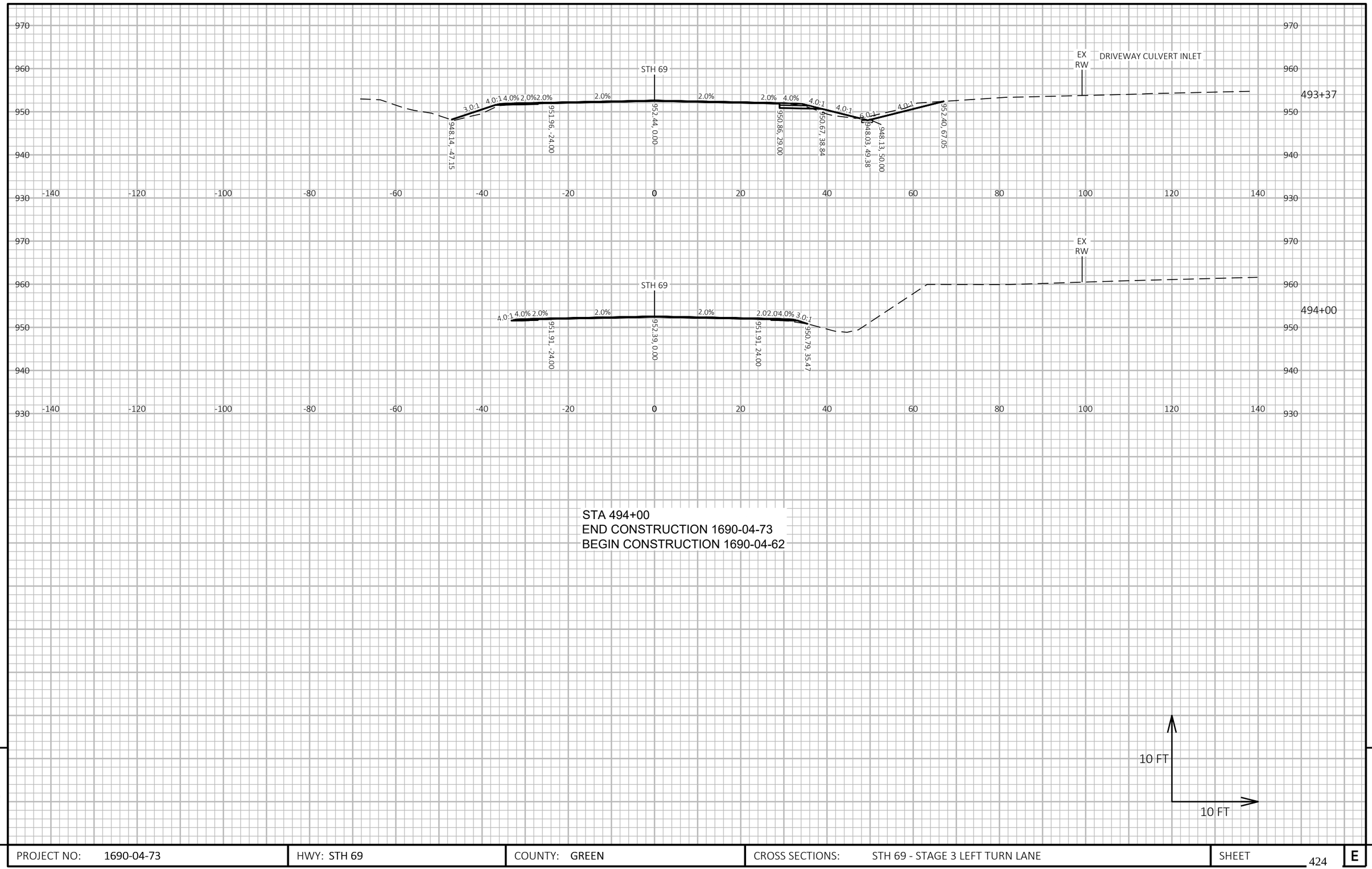


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 423	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090227-xs

PLOT DATE : 7/28/2025 8:49 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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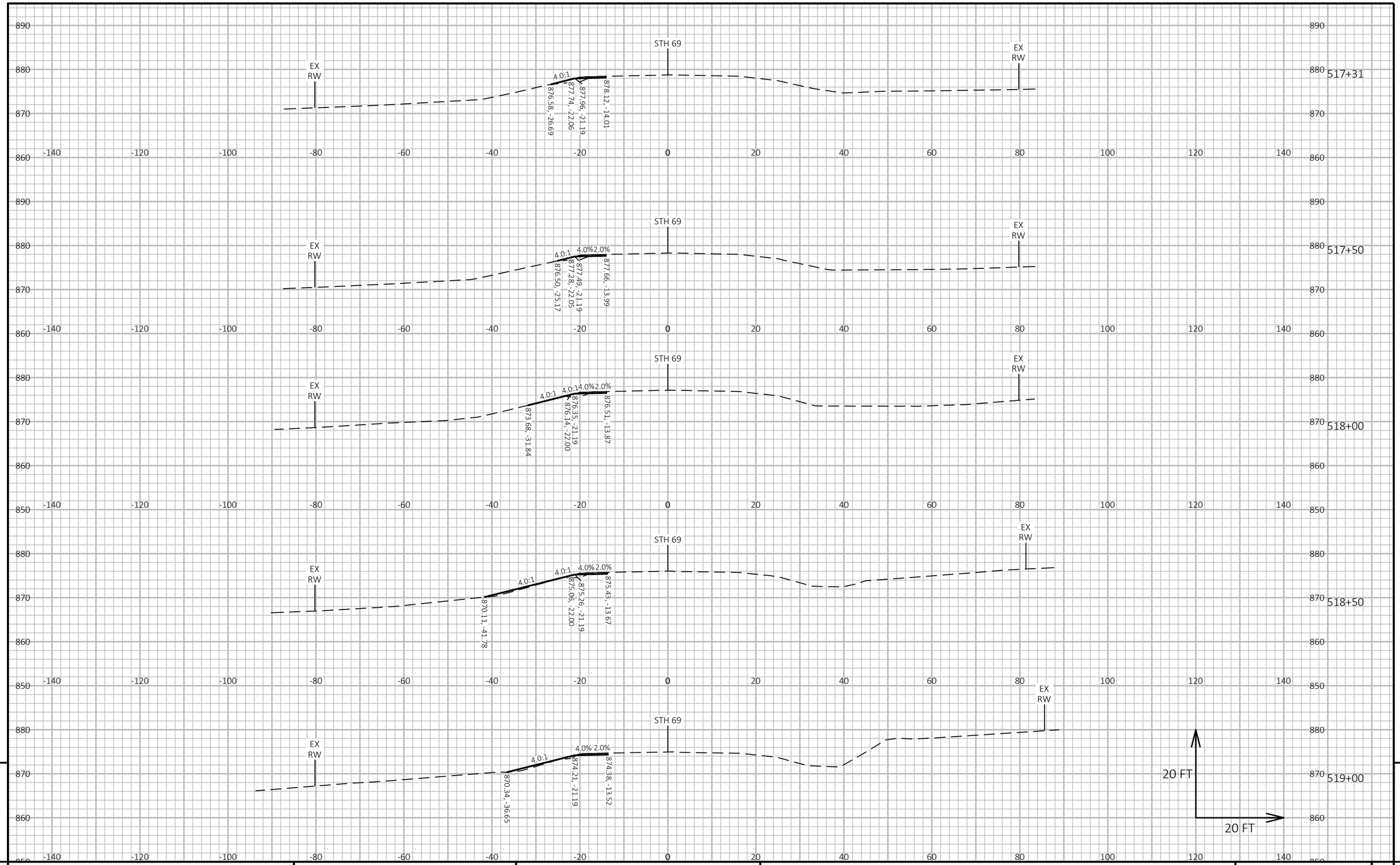
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69 - STAGE 3 LEFT TURN LANE	SHEET 424	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090202-XS_STAGE3_LEFTTURN.DWG
LAYOUT NAME - 090228-xs

PLOT DATE : 7/28/2025 8:49 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

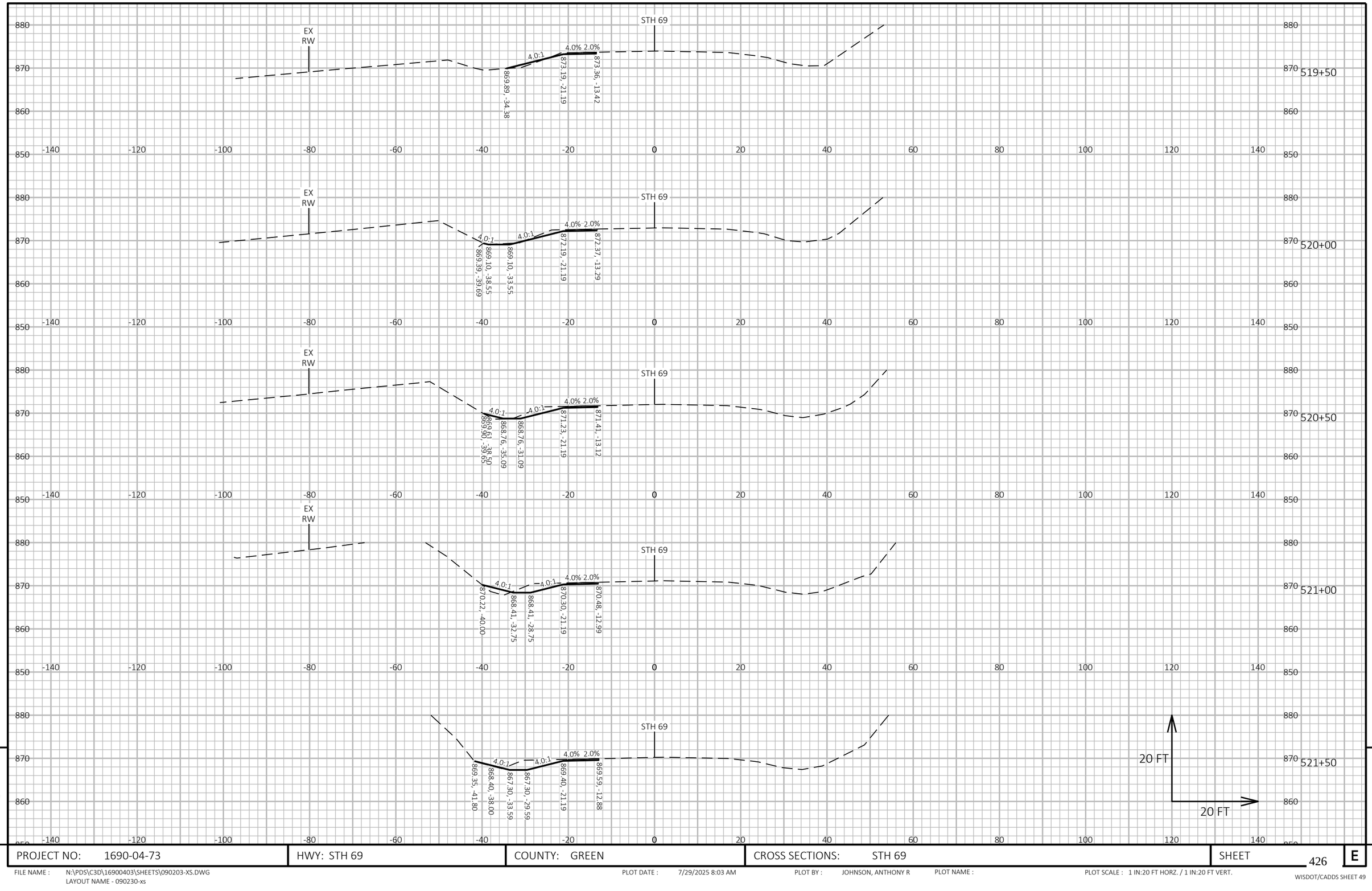


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 425	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090229-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 426	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090230-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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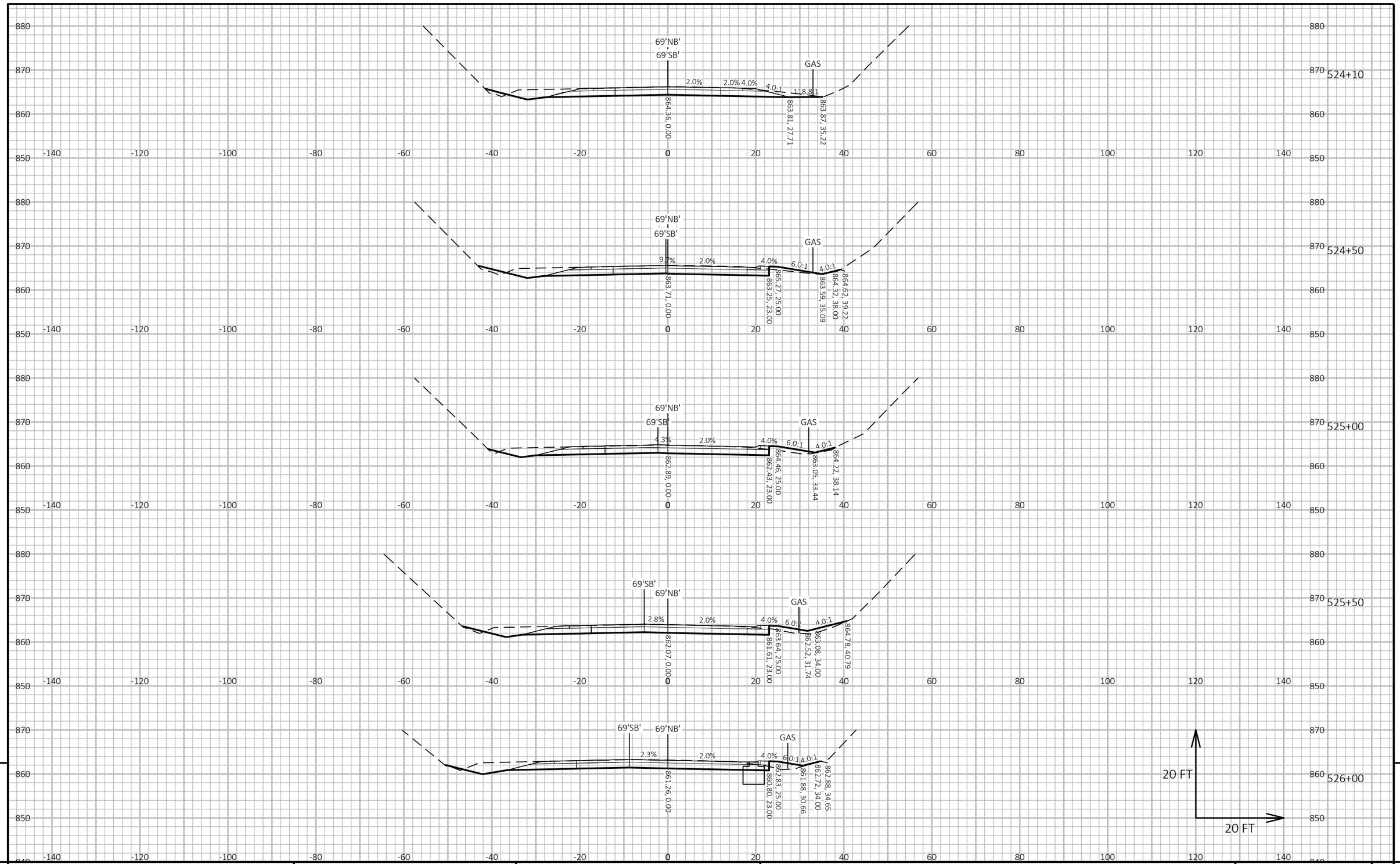
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 427	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090231-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'NB'	SHEET 428	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090232-xs

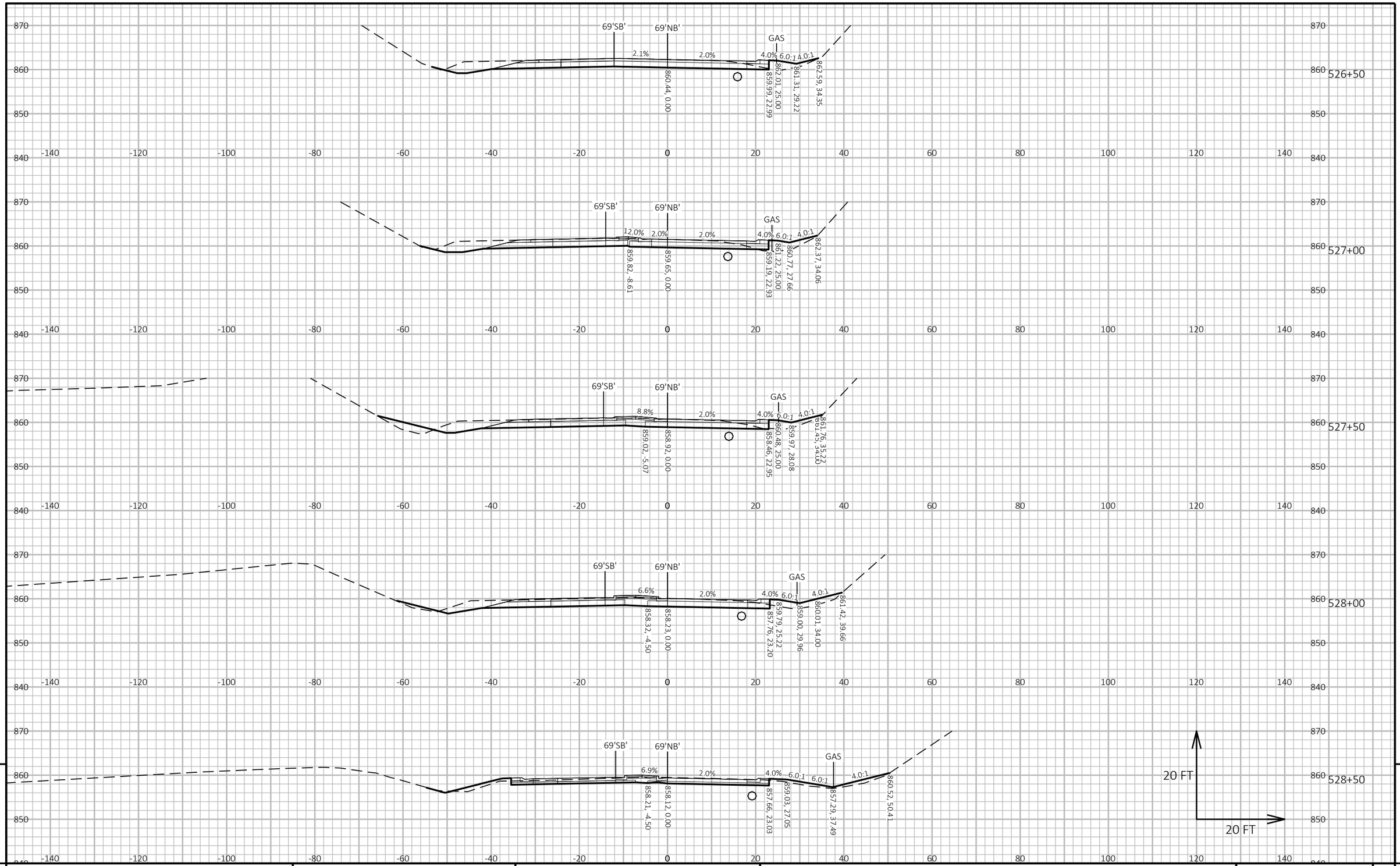
PLOT DATE : 7/29/2025 8:03 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

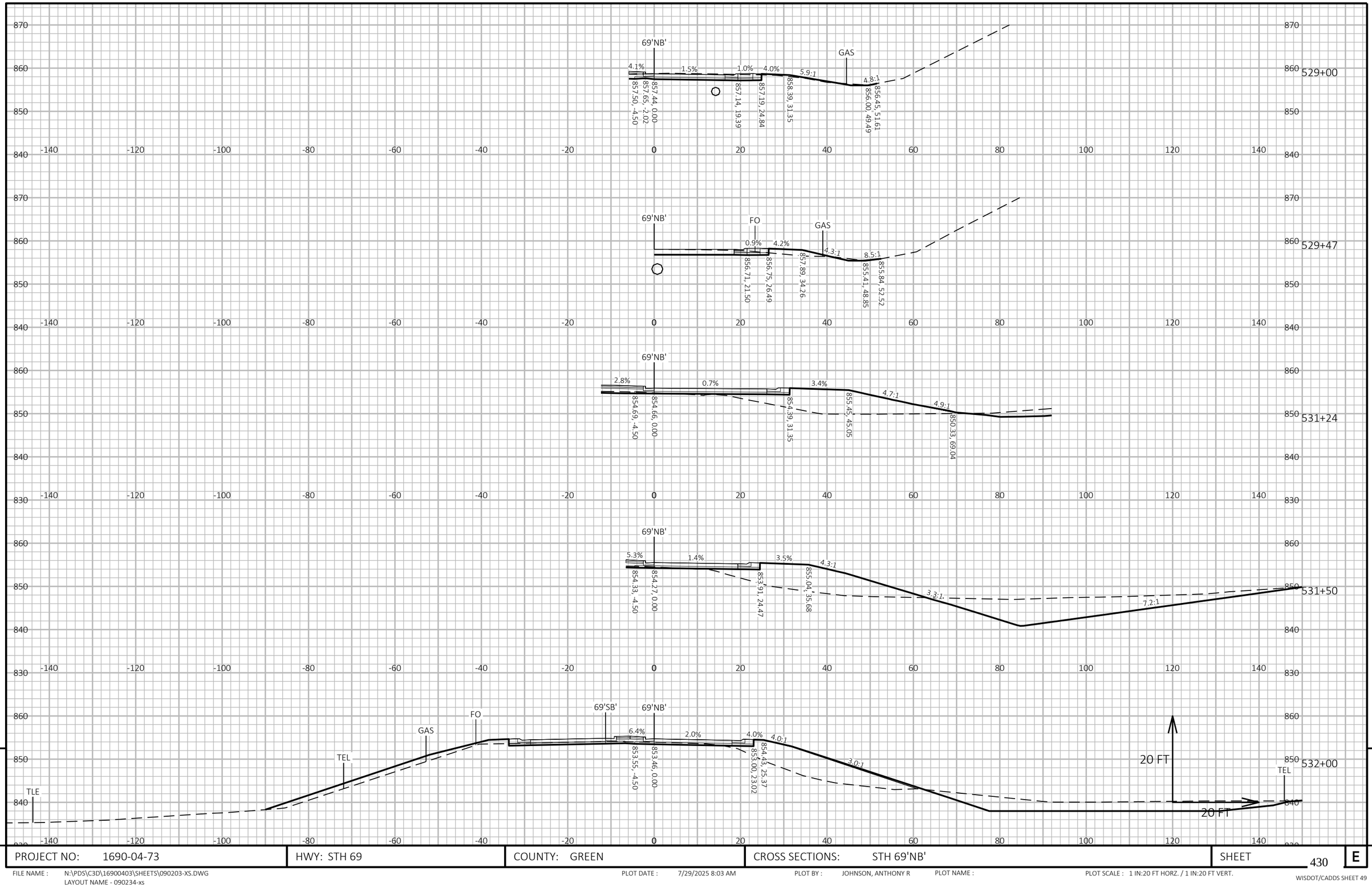
WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'NB'	SHEET 429	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090233-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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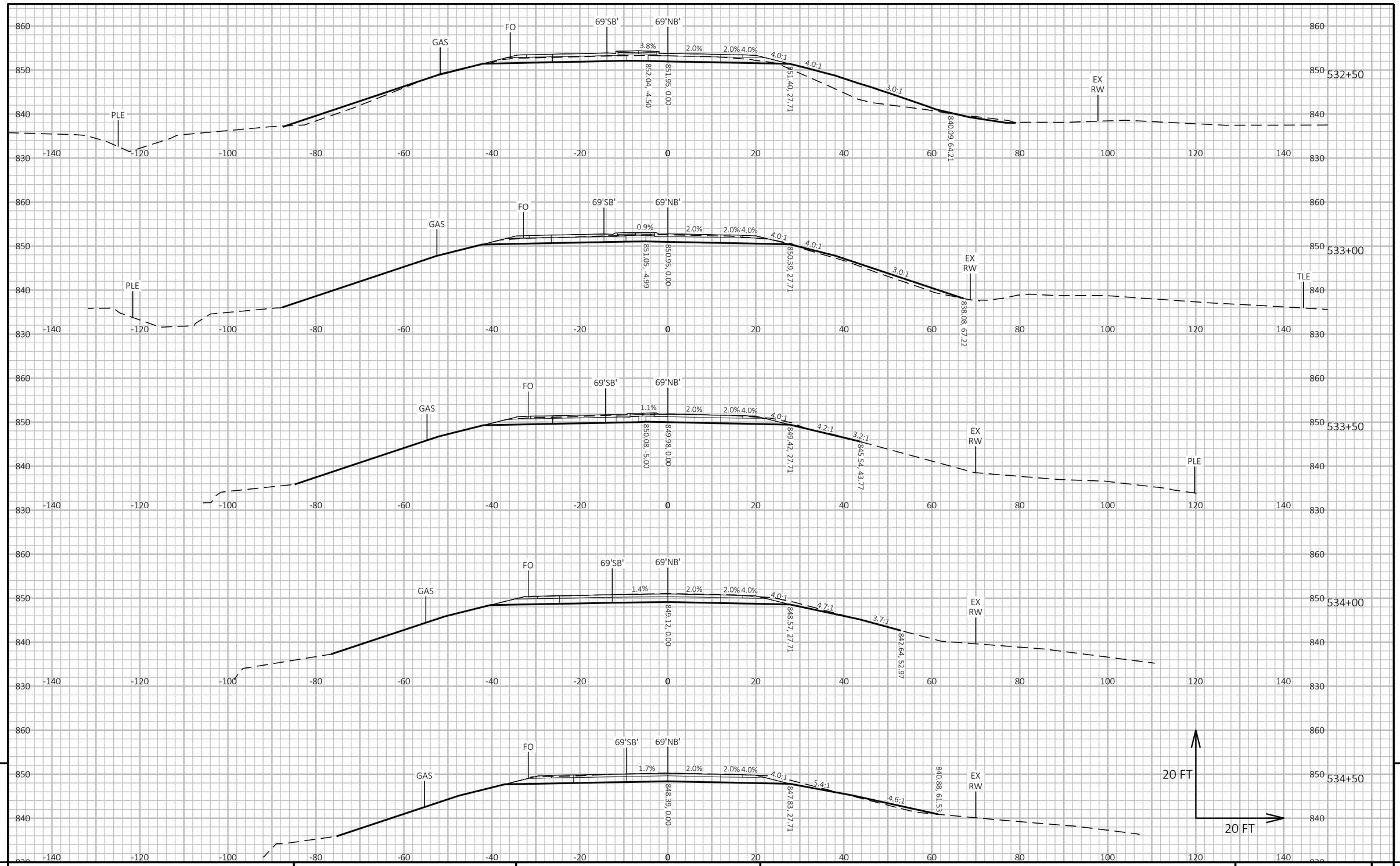
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'NB'	SHEET 430	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090234-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'NB'	SHEET 431	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090235-xs

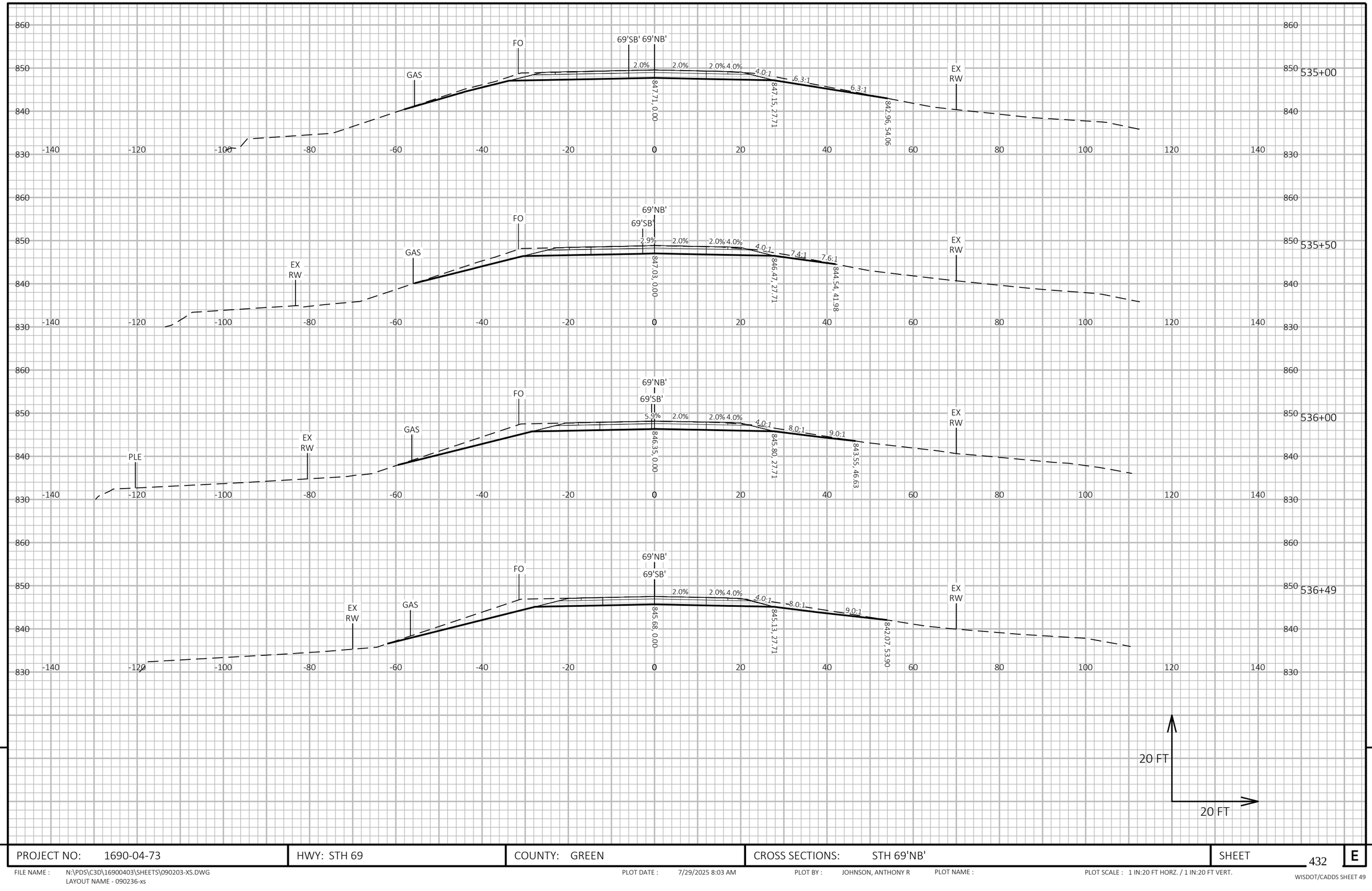
PLOT DATE : 7/29/2025 8:03 AM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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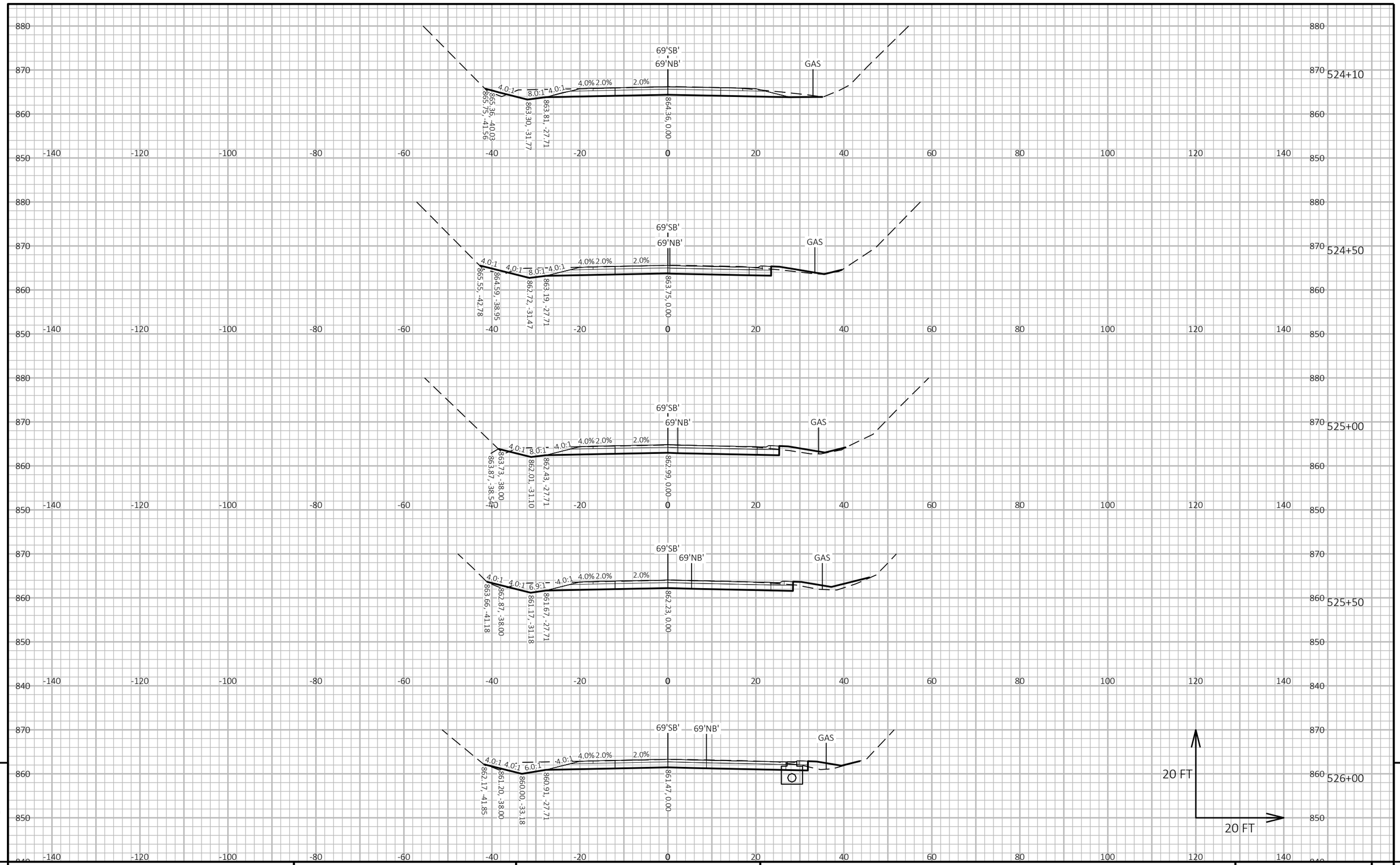
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'NB'	SHEET 432	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090236-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

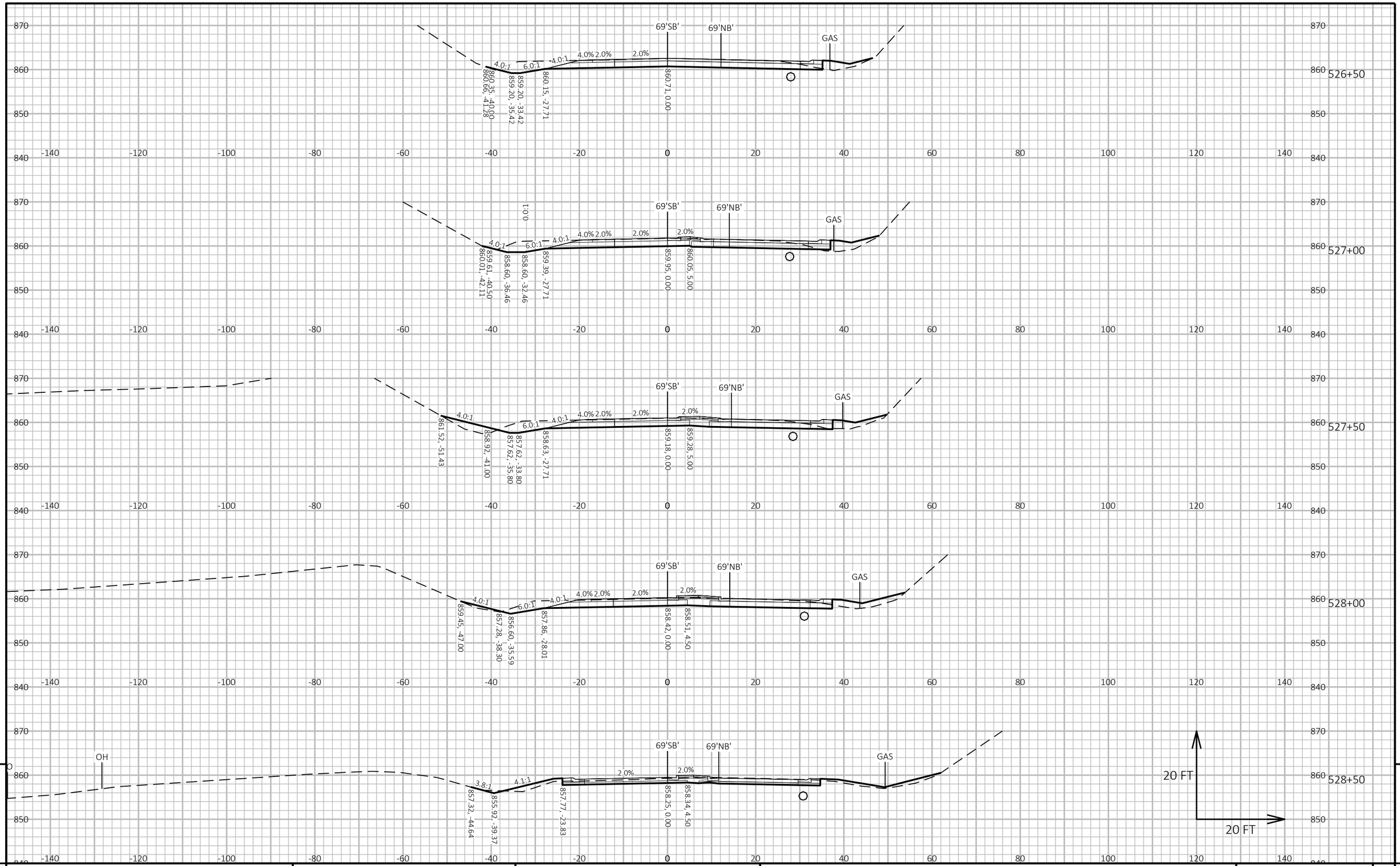


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'SB'	SHEET 433	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090237-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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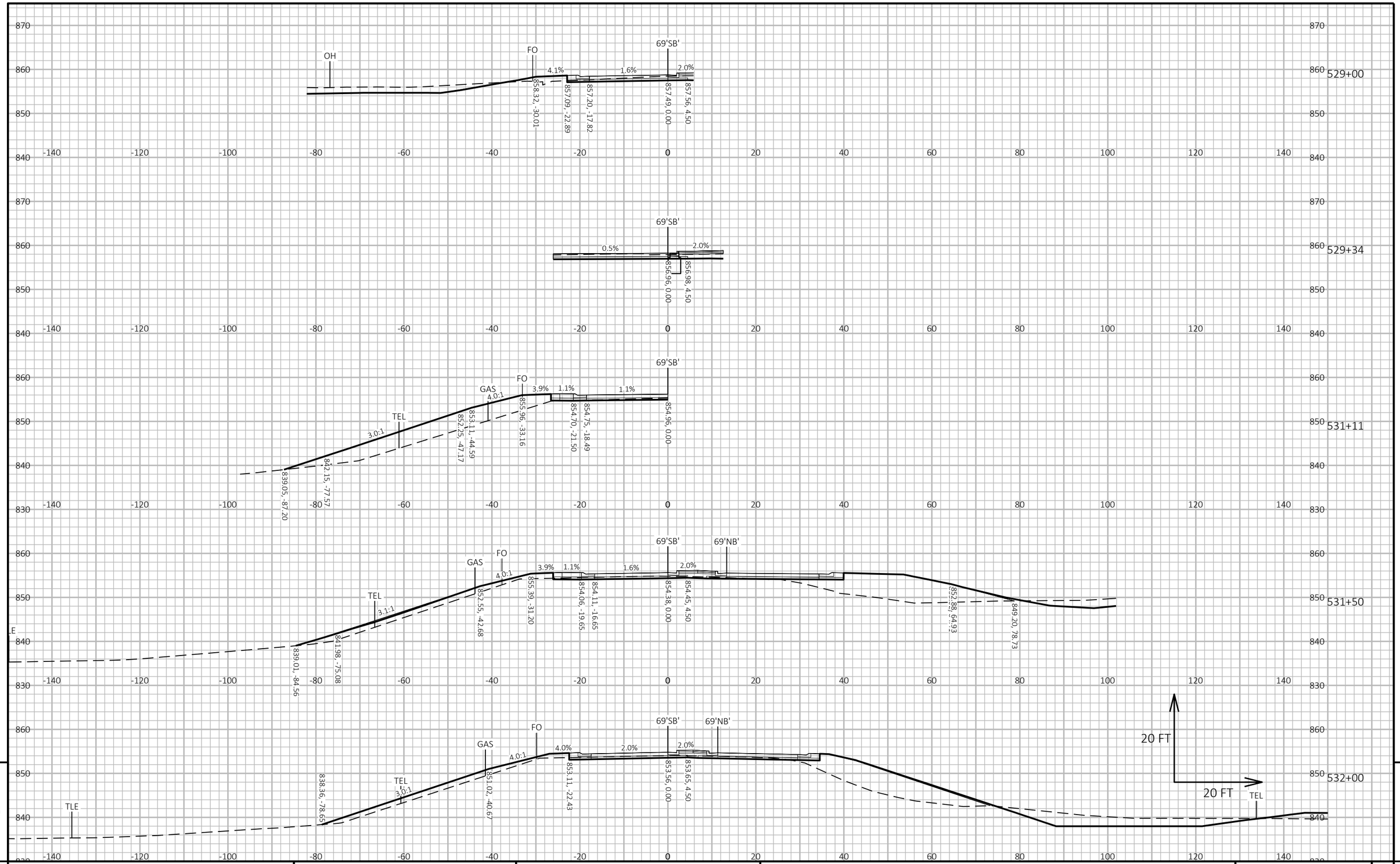
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'SB'	SHEET 434	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090238-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



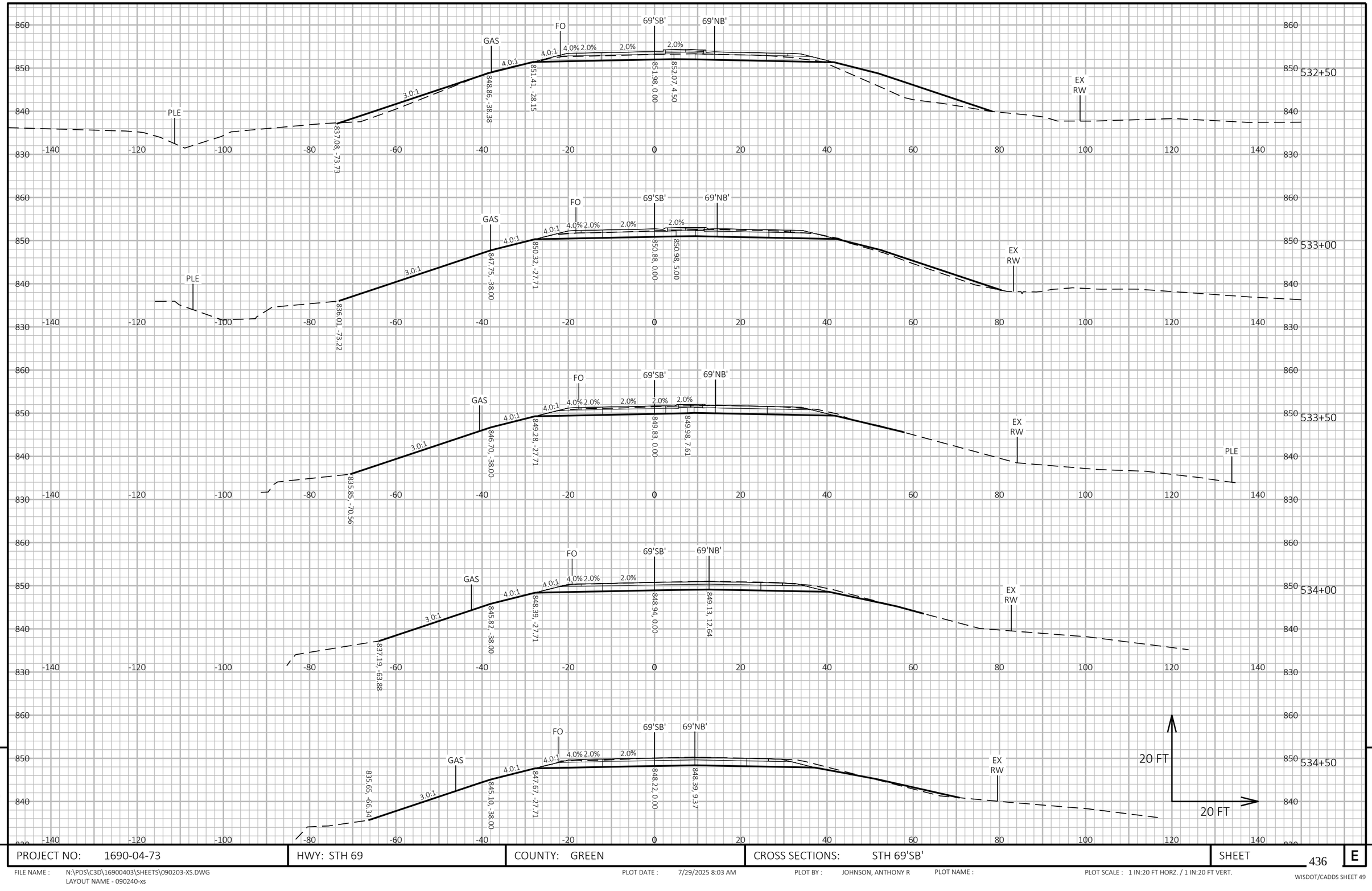
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'SB'	SHEET 435	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090239-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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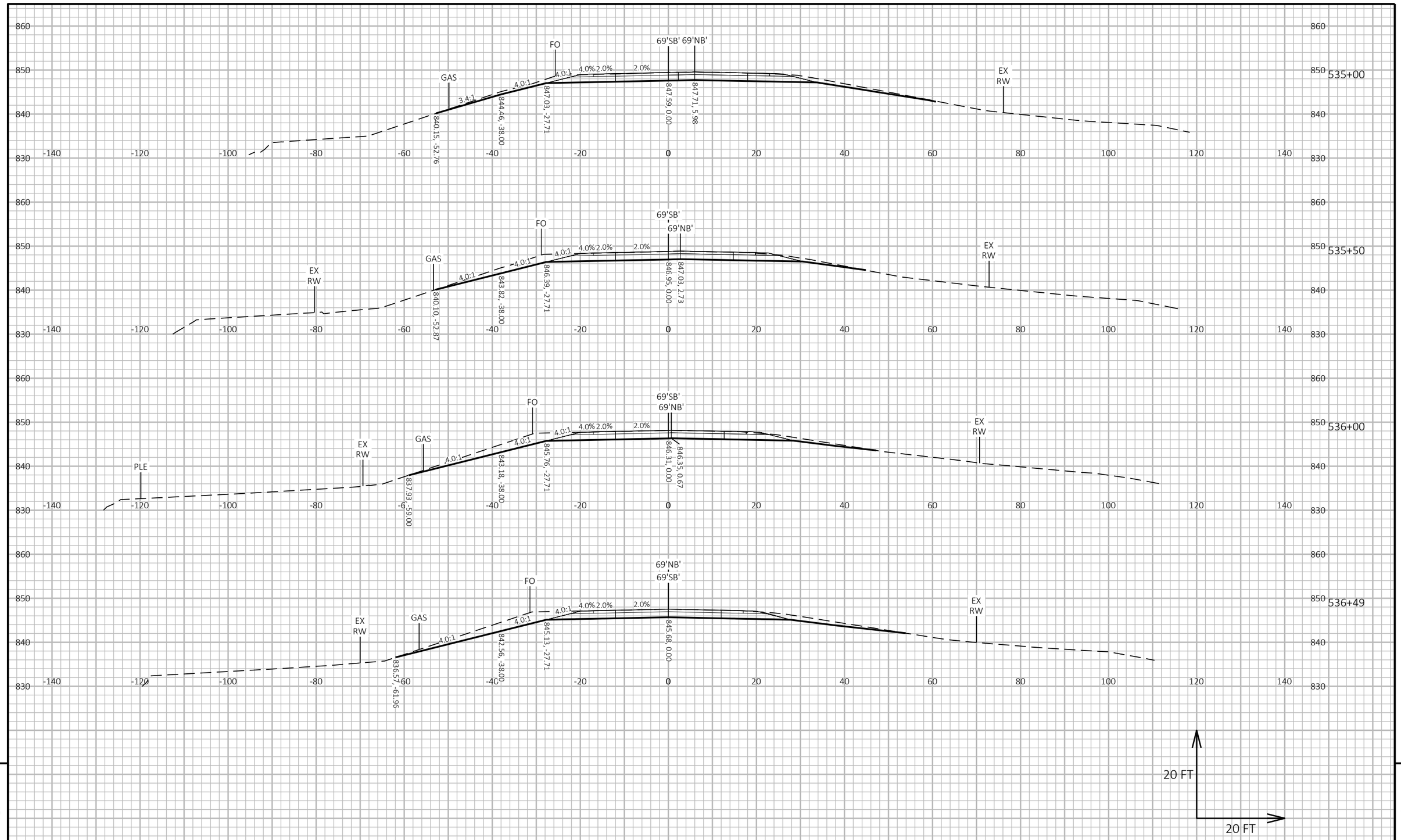
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'SB'	SHEET 436	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090240-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

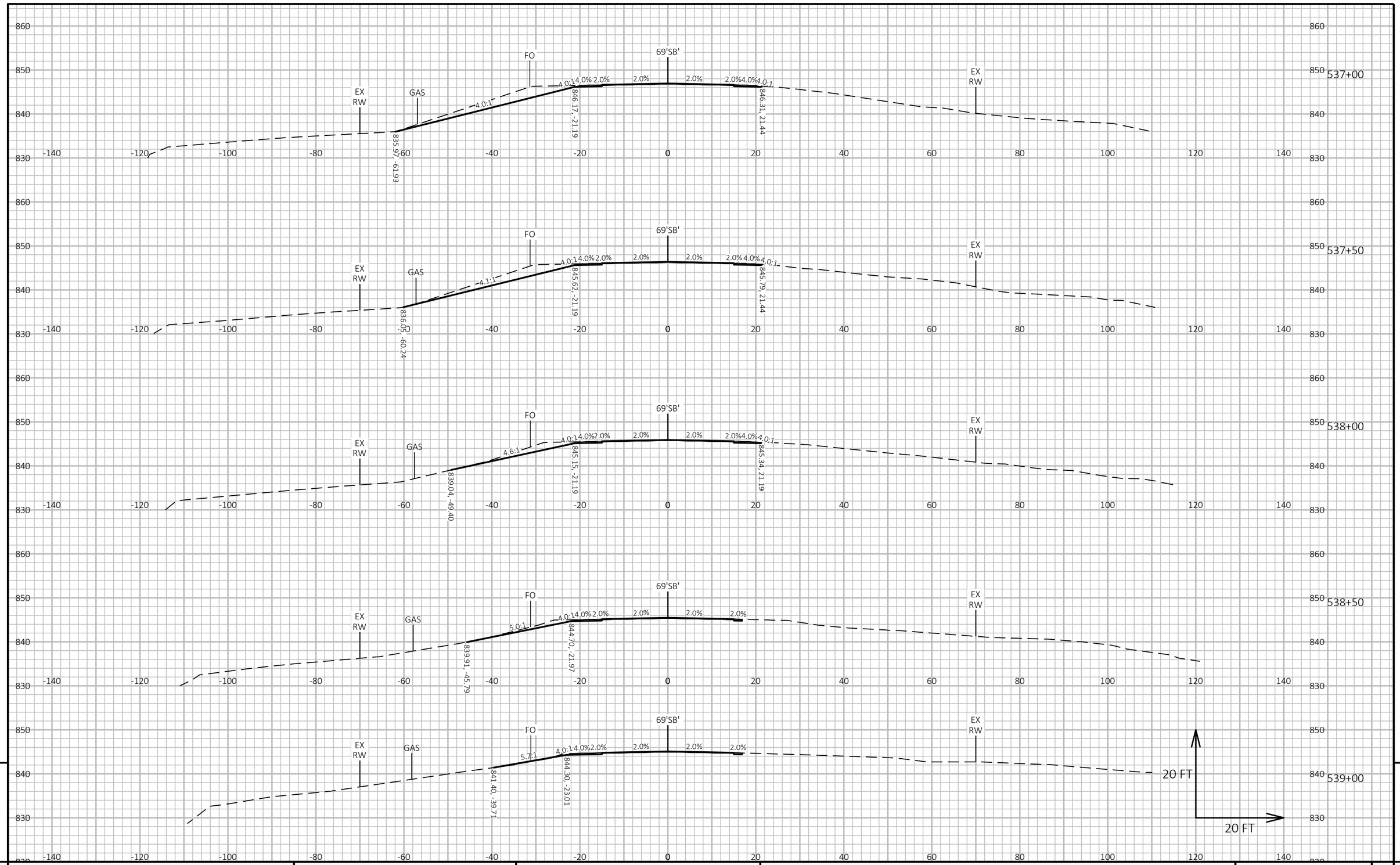


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69'SB'	SHEET 437	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090241-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

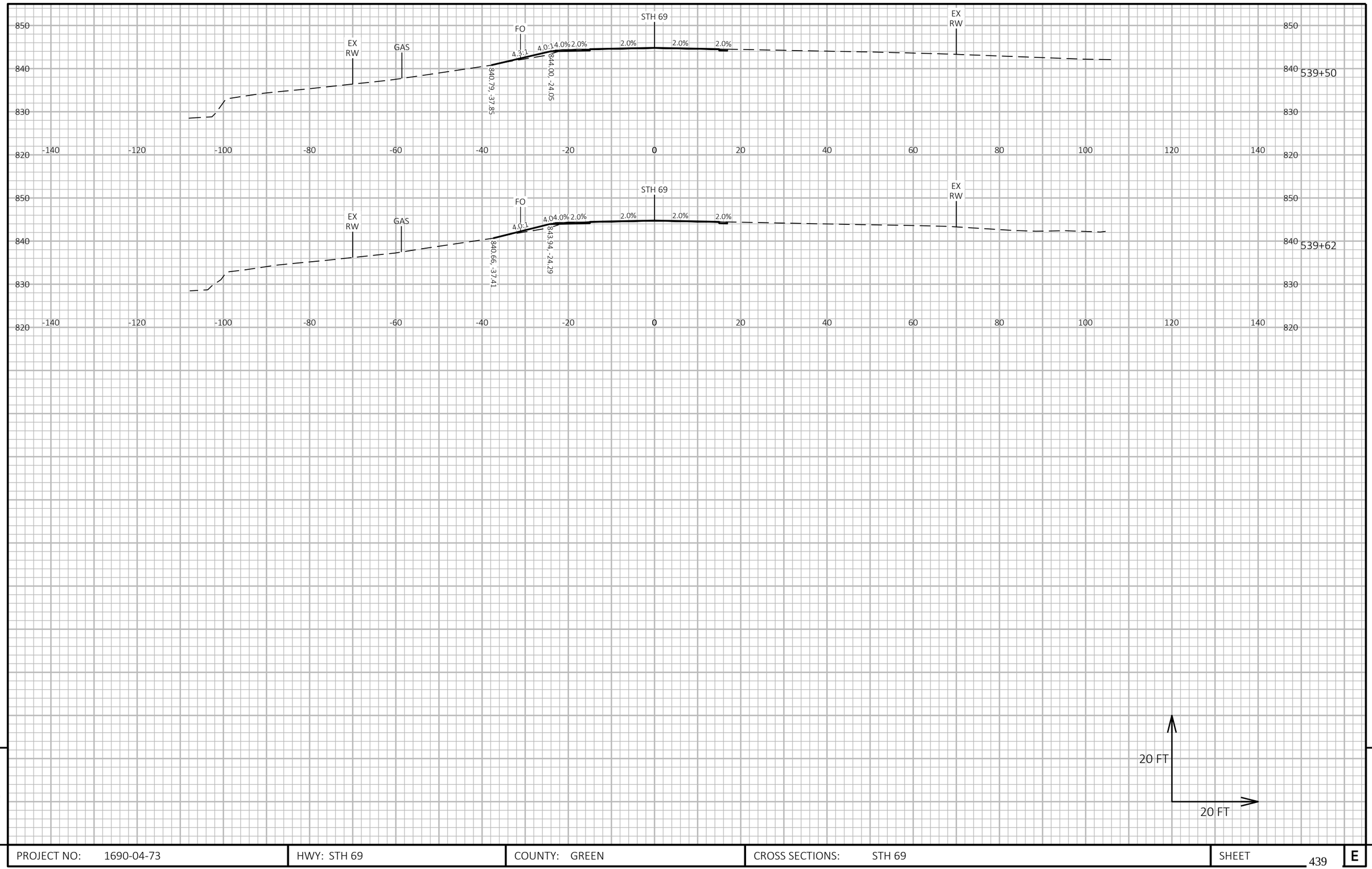


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 438	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090242-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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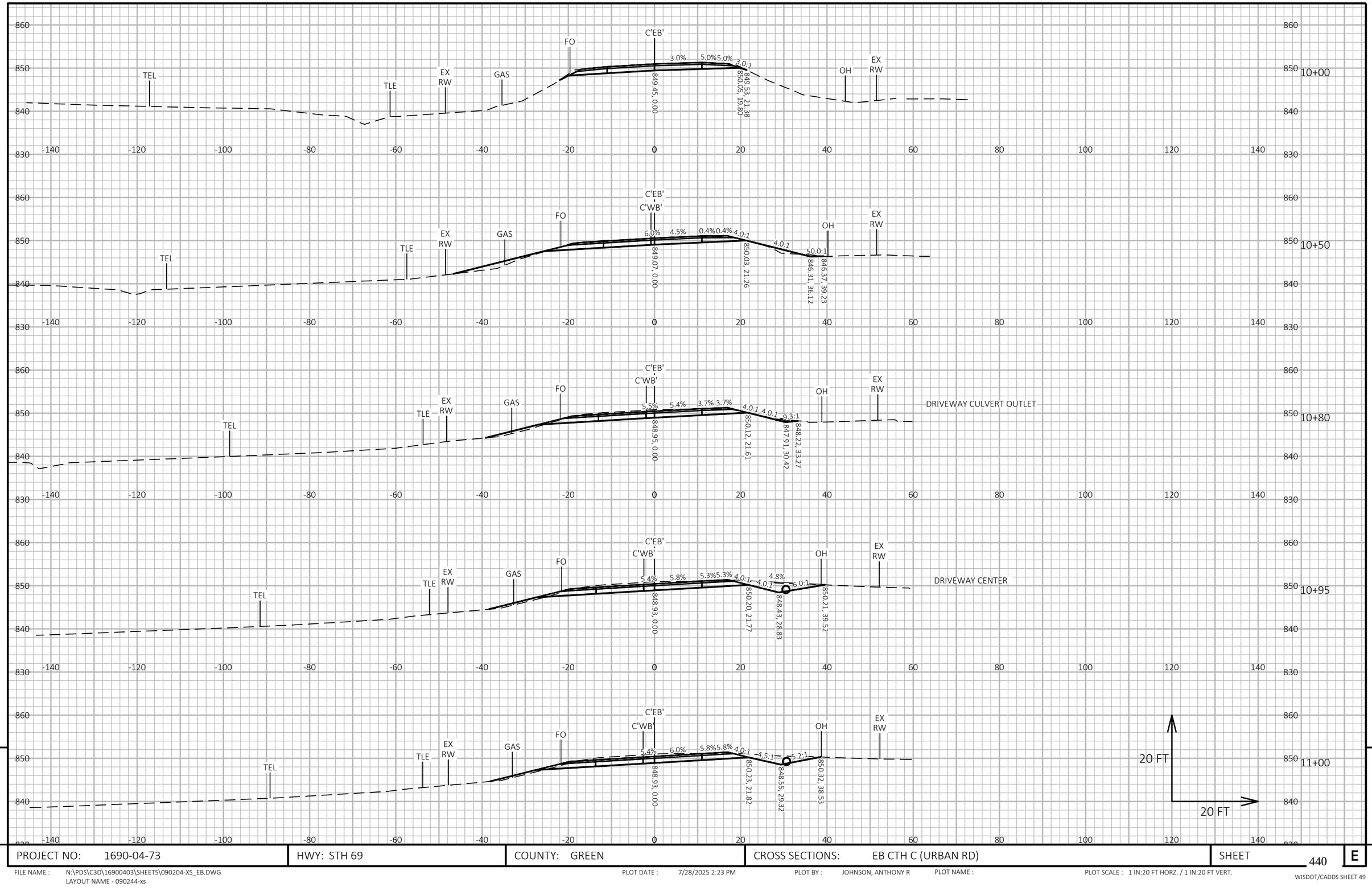
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 439	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090203-XS.DWG
LAYOUT NAME - 090243-xs

PLOT DATE : 7/29/2025 8:03 AM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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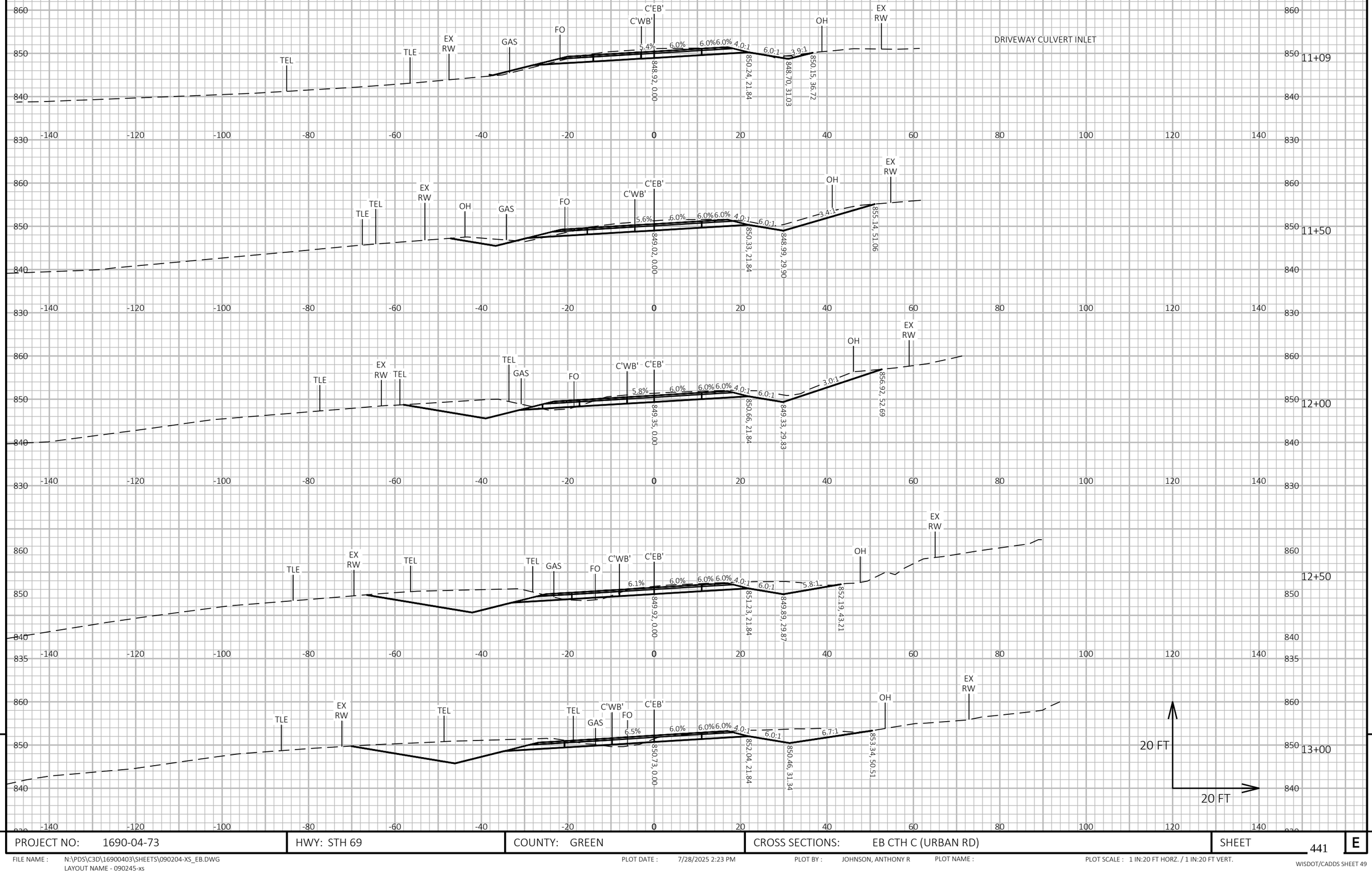
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: EB CTH C (URBAN RD)	SHEET 440	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090204-XS_EB.DWG
LAYOUT NAME - 090244-xs

PLOT DATE : 7/28/2025 2:23 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

DRIVEWAY CULVERT INLET



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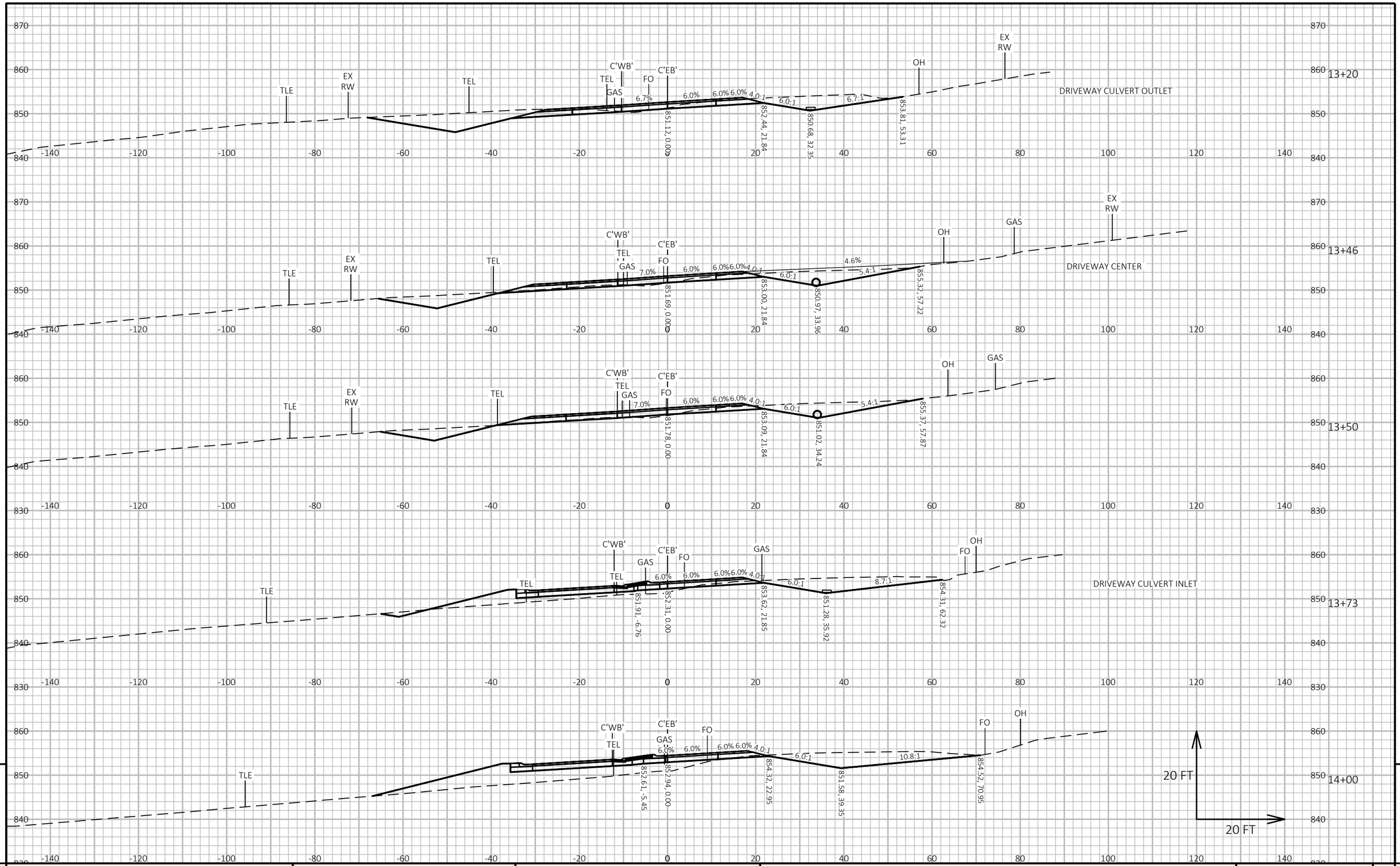
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: EB CTH C (URBAN RD)	SHEET 441	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090204-XS_EB.DWG
LAYOUT NAME - 090245-xs

PLOT DATE : 7/28/2025 2:23 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

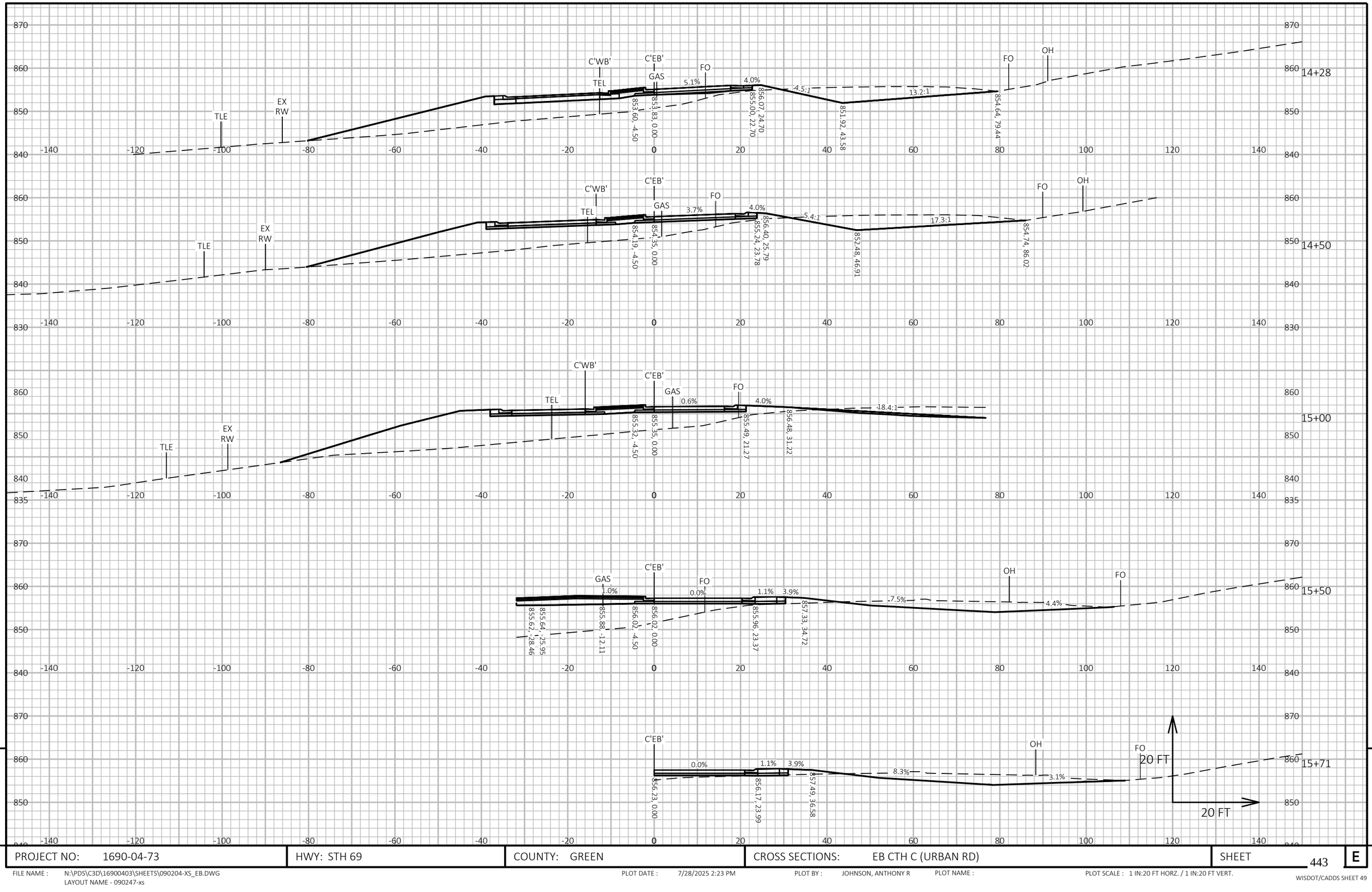
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: EB CTH C (URBAN RD)	SHEET 442	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090204-XS_EB.DWG
LAYOUT NAME - 090246-xs

PLOT DATE : 7/28/2025 2:23 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

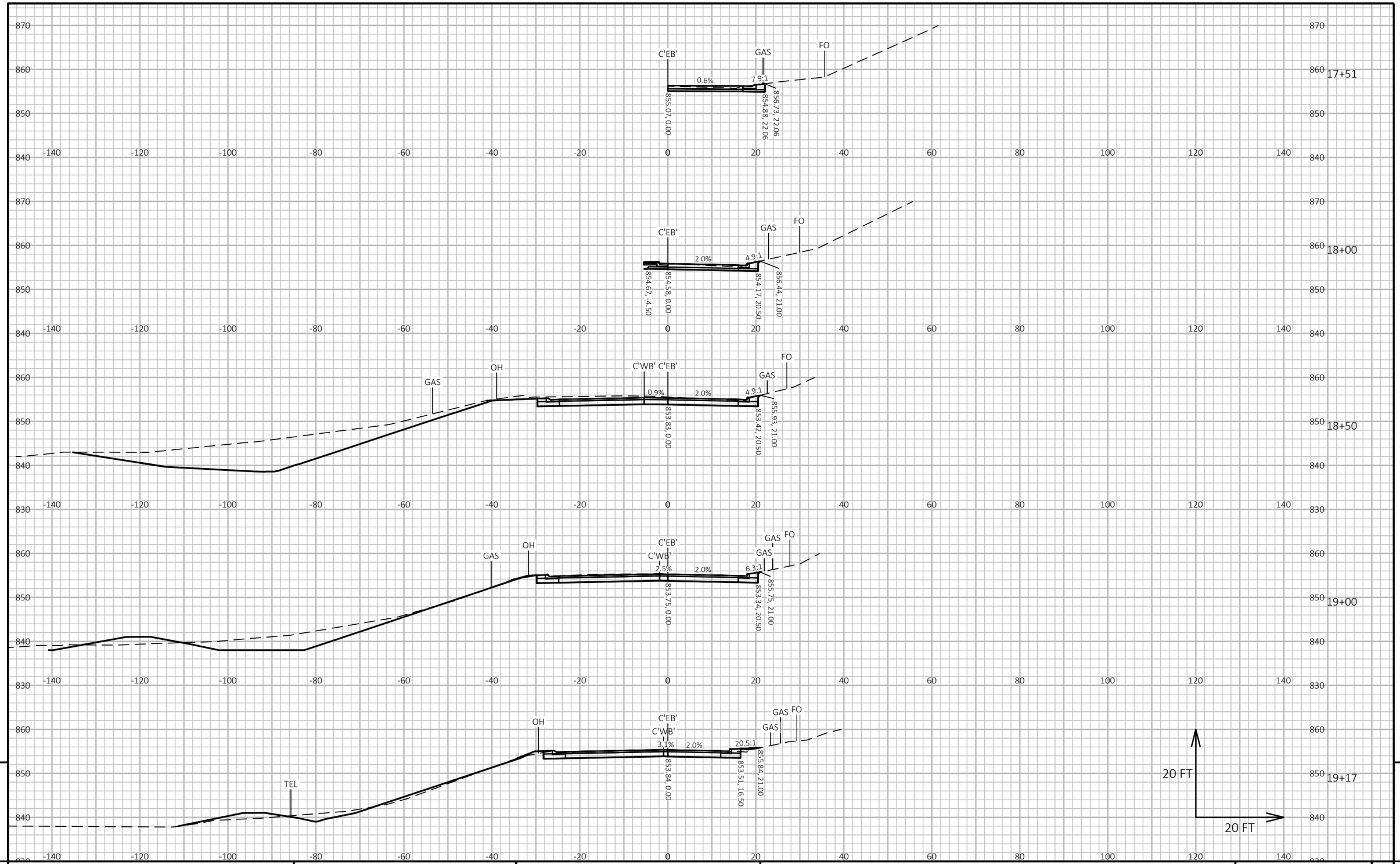


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: EB CTH C (URBAN RD)	SHEET 443	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090204-XS_EB.DWG
LAYOUT NAME - 090247-xs

PLOT DATE : 7/28/2025 2:23 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

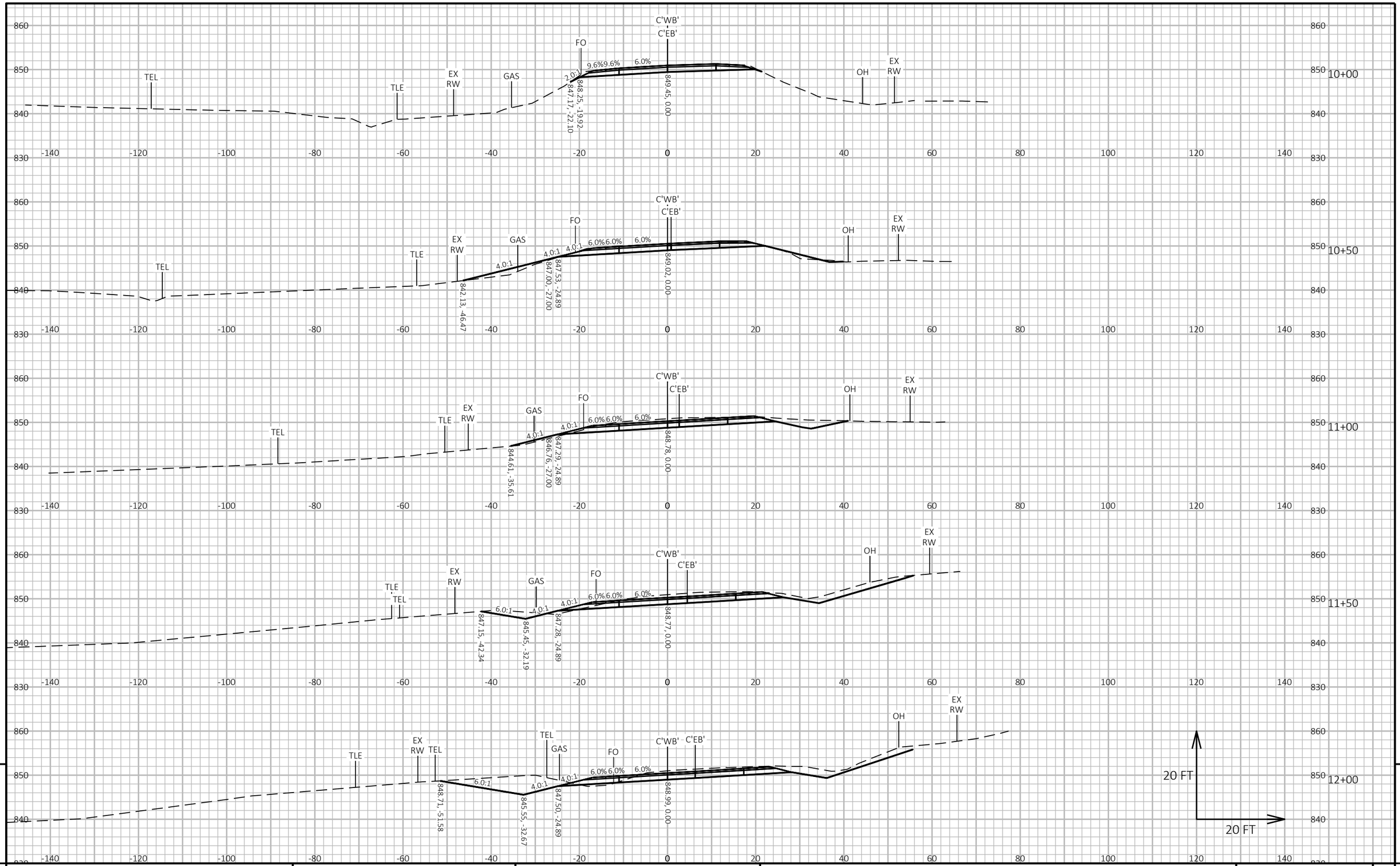


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: EB CTH C (URBAN RD)	SHEET 444	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090204-XS_EB.DWG
LAYOUT NAME - 090248-xs

PLOT DATE : 7/28/2025 2:23 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: WB CTH C (URBAN RD)	SHEET 445	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090205-XS_WB.DWG
LAYOUT NAME - 090249-xs

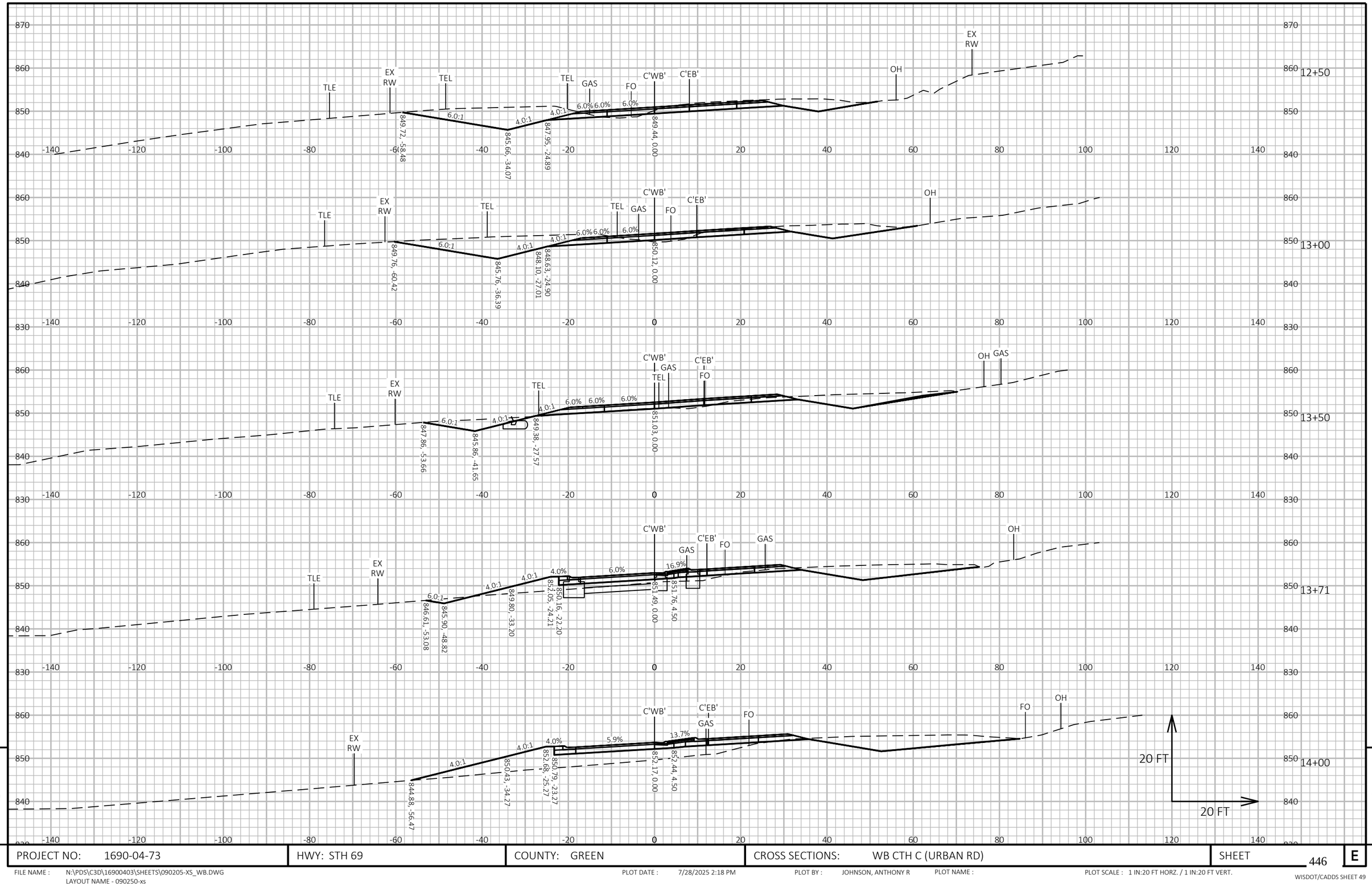
PLOT DATE : 7/28/2025 2:18 PM

PLOT BY : JOHNSON, ANTHONY R

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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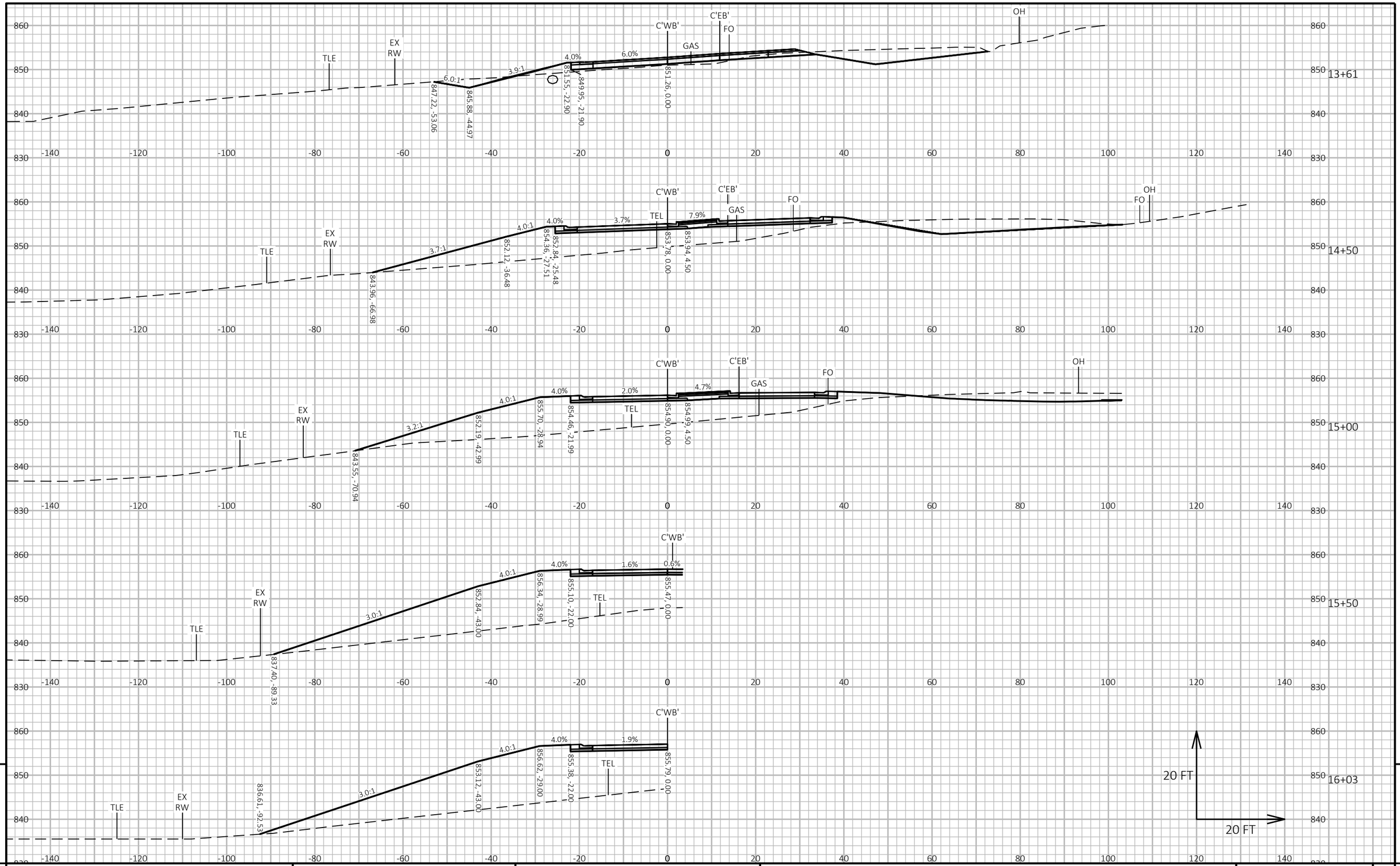
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: WB CTH C (URBAN RD)	SHEET 446	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090205-XS_WB.DWG
LAYOUT NAME - 090250-xs

PLOT DATE : 7/28/2025 2:18 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

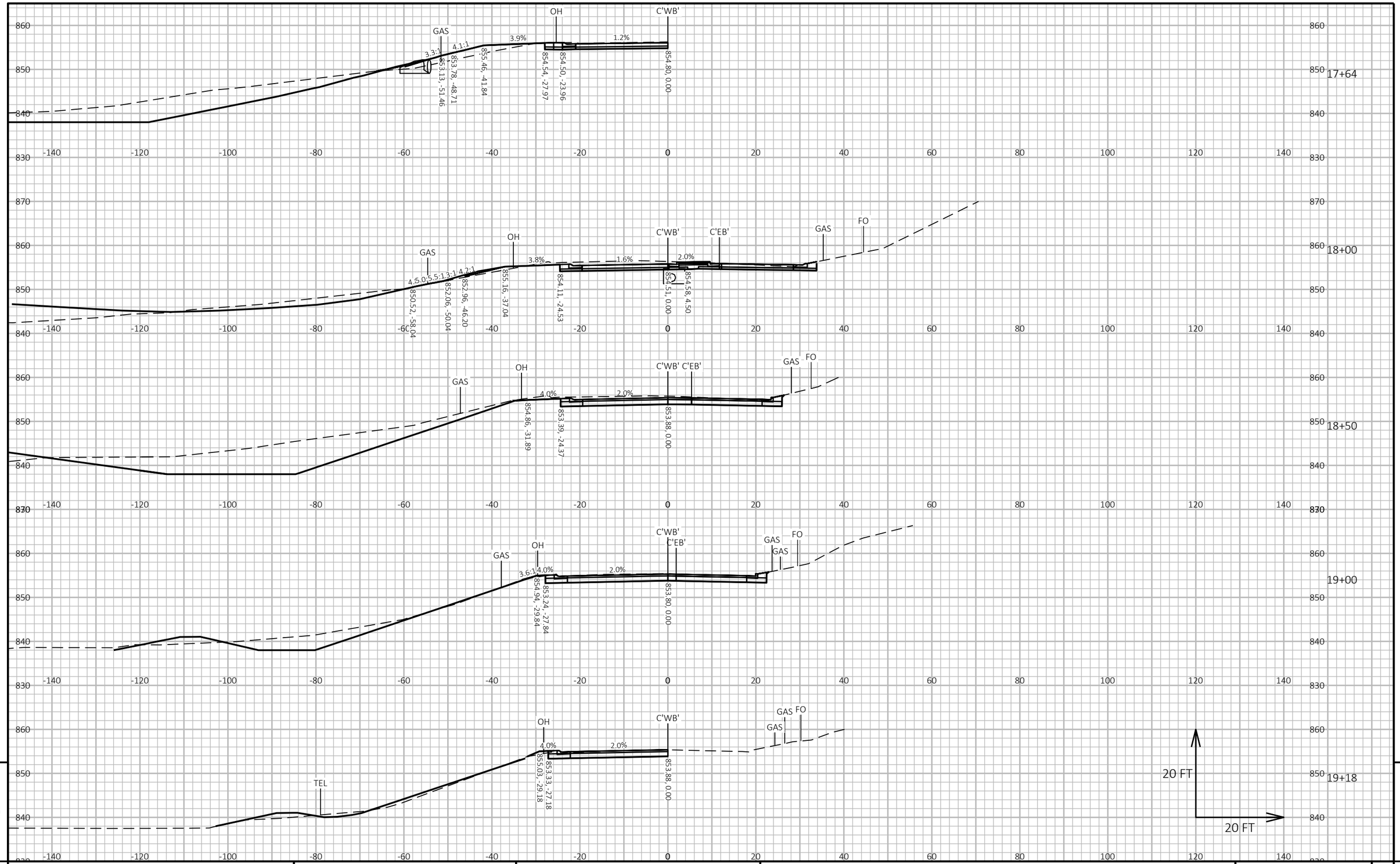


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: WB CTH C (URBAN RD)	SHEET 447	E

FILE NAME : N:\PDS\C3D\16900403\SHEETS\090205-XS_WB.DWG
LAYOUT NAME - 090251-xs

PLOT DATE : 7/28/2025 2:18 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



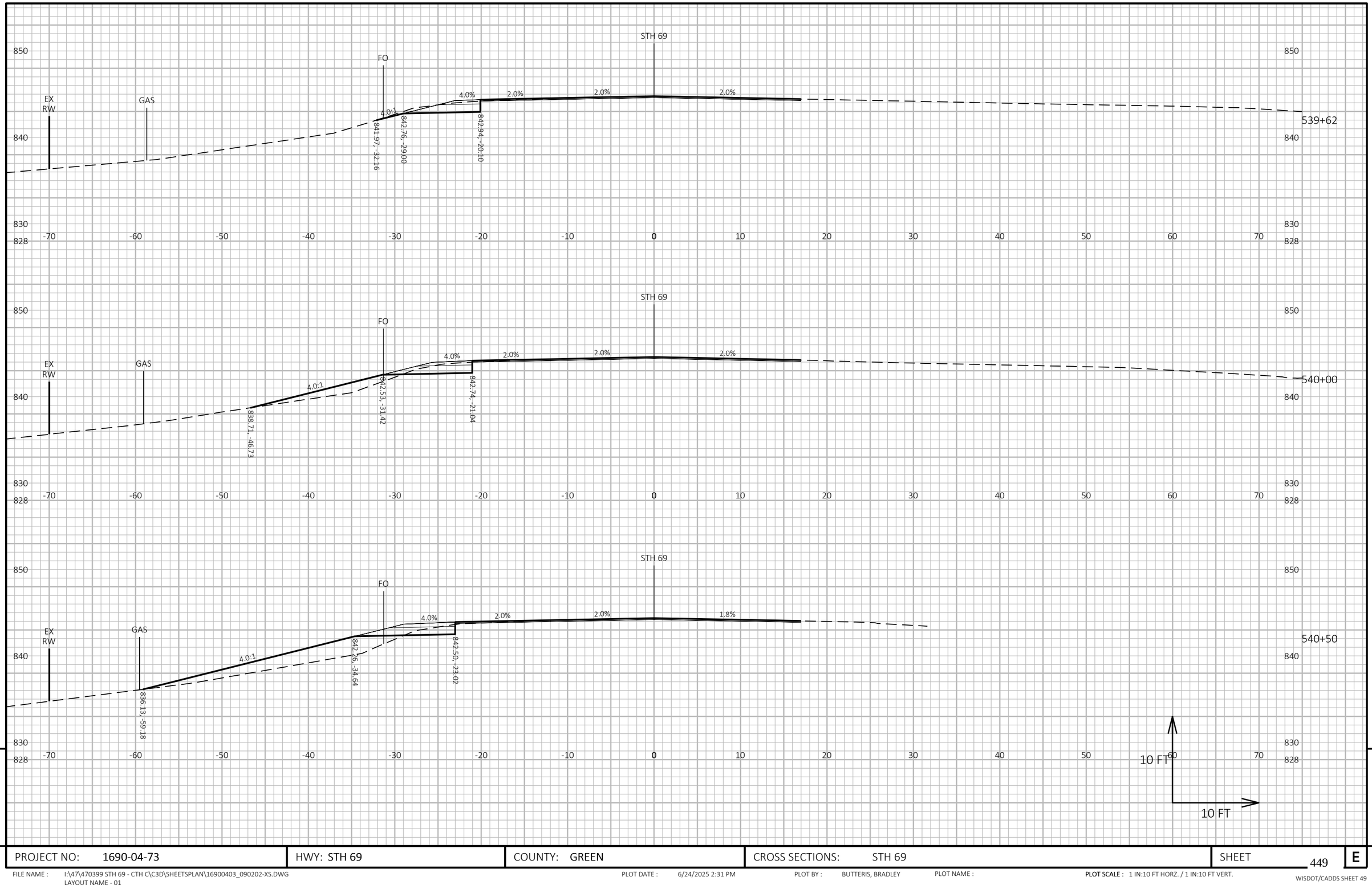
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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: WB CTH C (URBAN RD)	SHEET 448	E

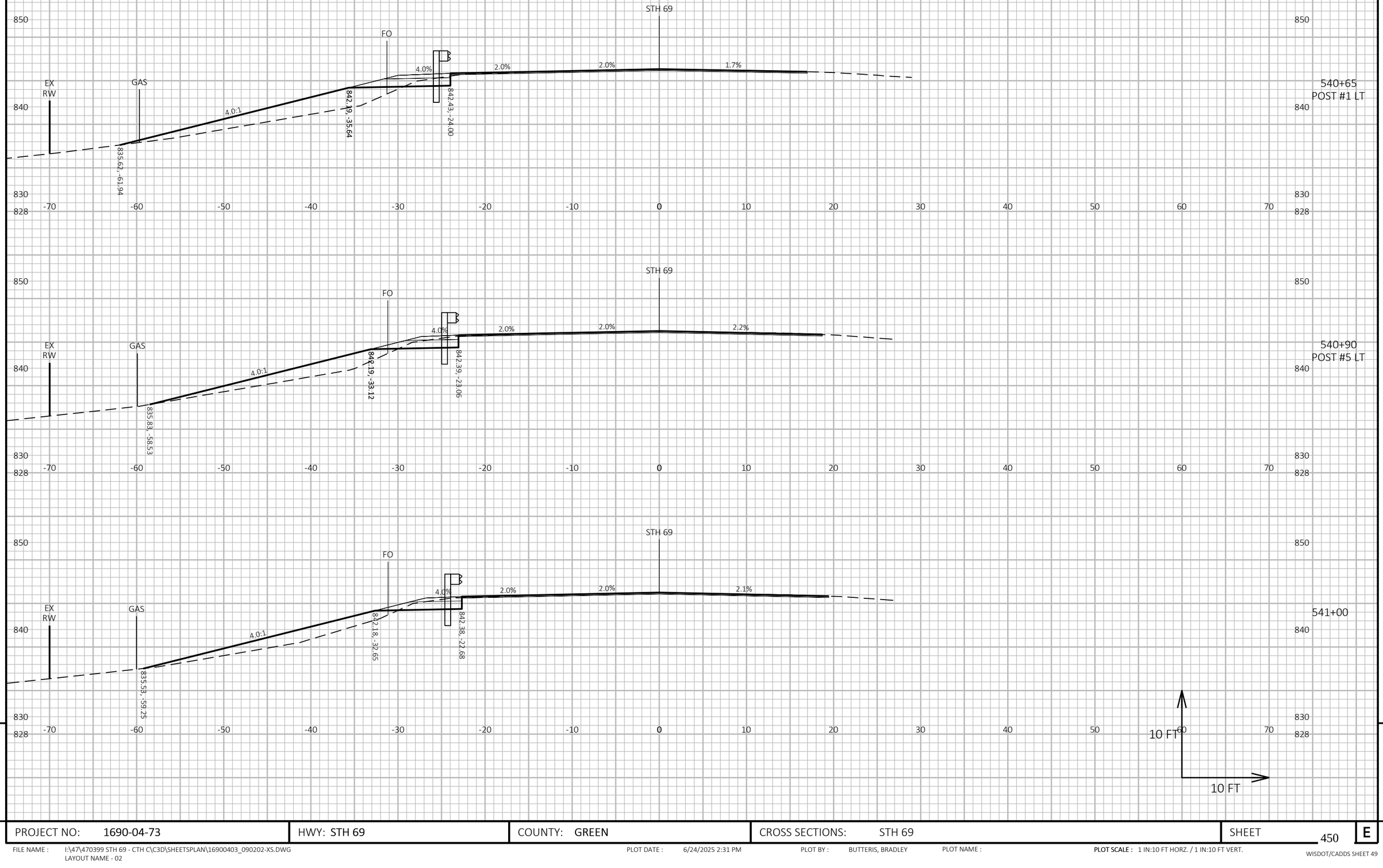
FILE NAME : N:\PDS\C3D\16900403\SHEETS\090205-XS_WB.DWG
LAYOUT NAME - 090252-xs

PLOT DATE : 7/28/2025 2:18 PM PLOT BY : JOHNSON, ANTHONY R PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 449	E



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 450	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_090202-XS.DWG
LAYOUT NAME - 02

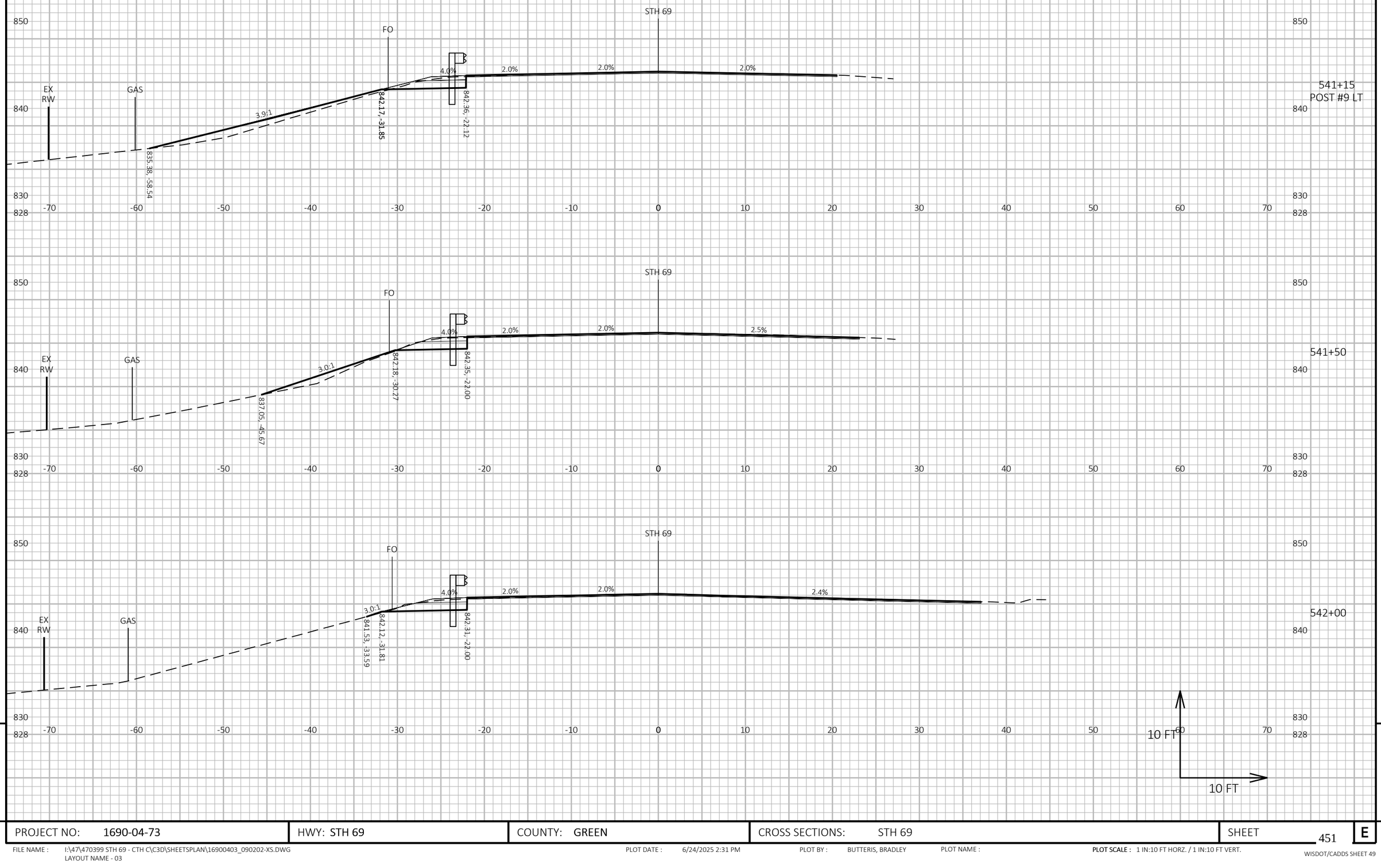
PLOT DATE : 6/24/2025 2:31 PM

PLOT BY : BUTTERIS, BRADLEY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 451	E

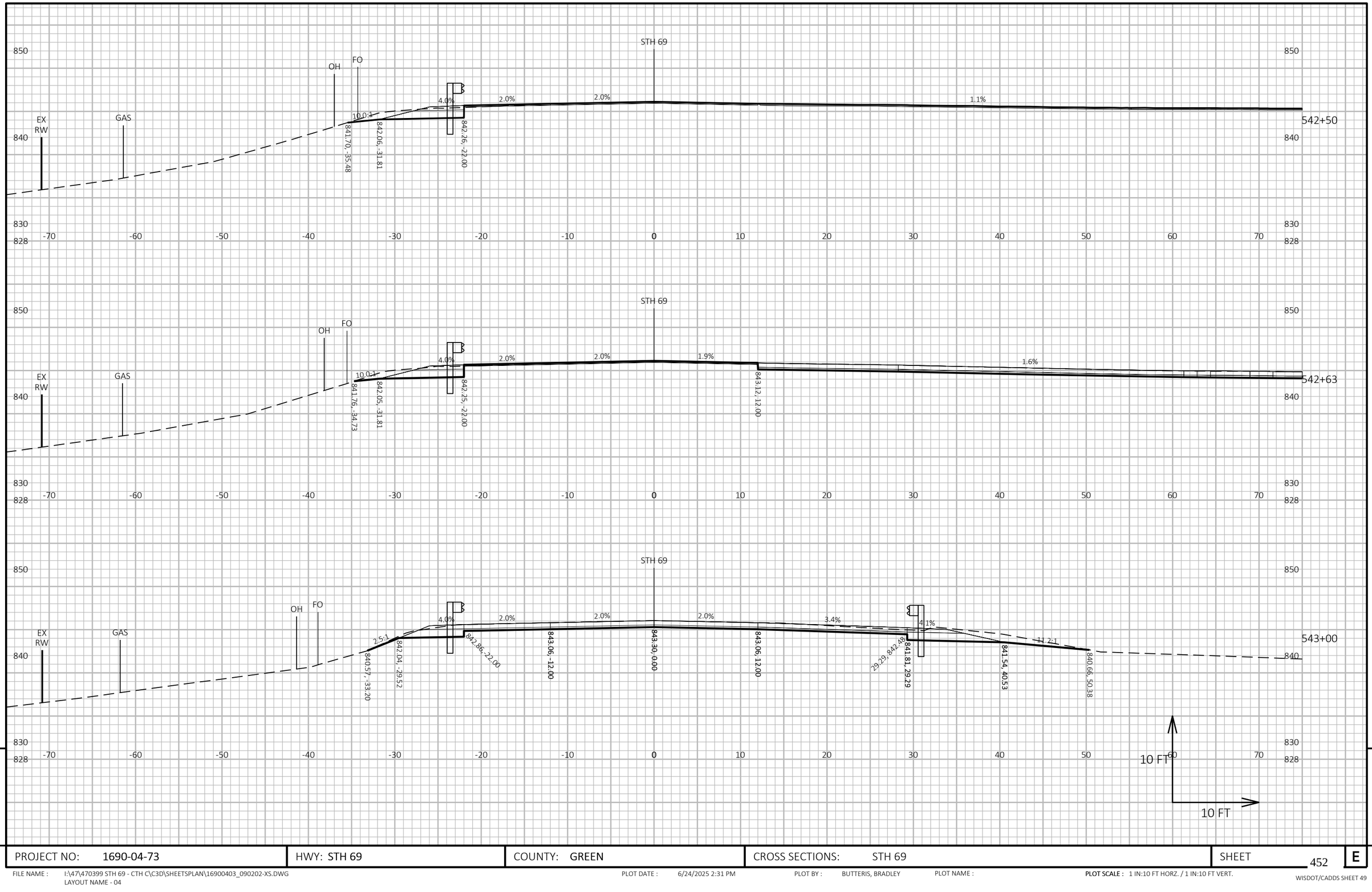
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LAYOUT NAME - 03

PLOT DATE : 6/24/2025 2:31 PM

PLOT BY : BUTTERIS, BRADLEY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

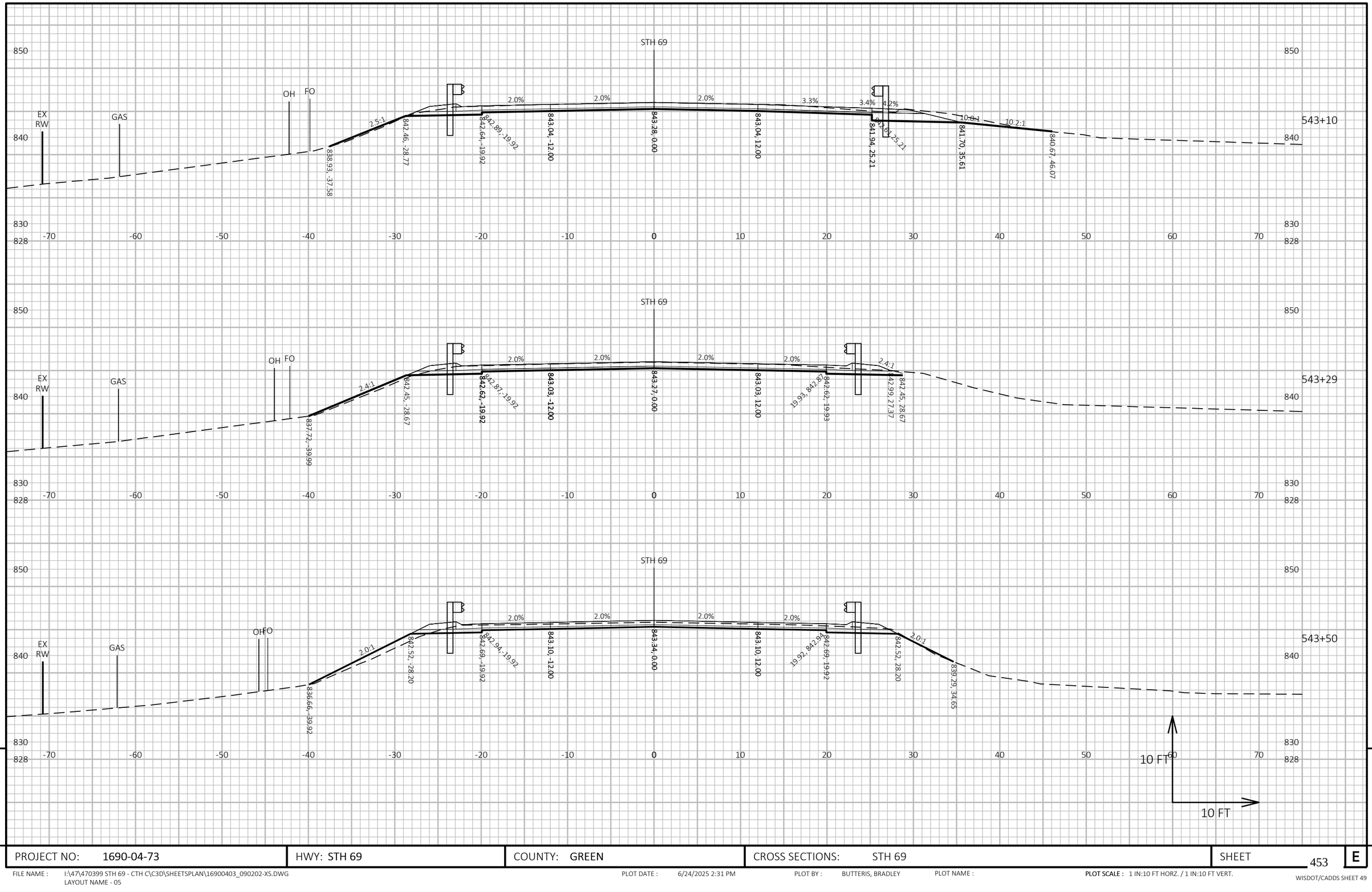


PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 452	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_090202-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 6/24/2025 2:31 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 453	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_090202-XS.DWG
LAYOUT NAME - 05

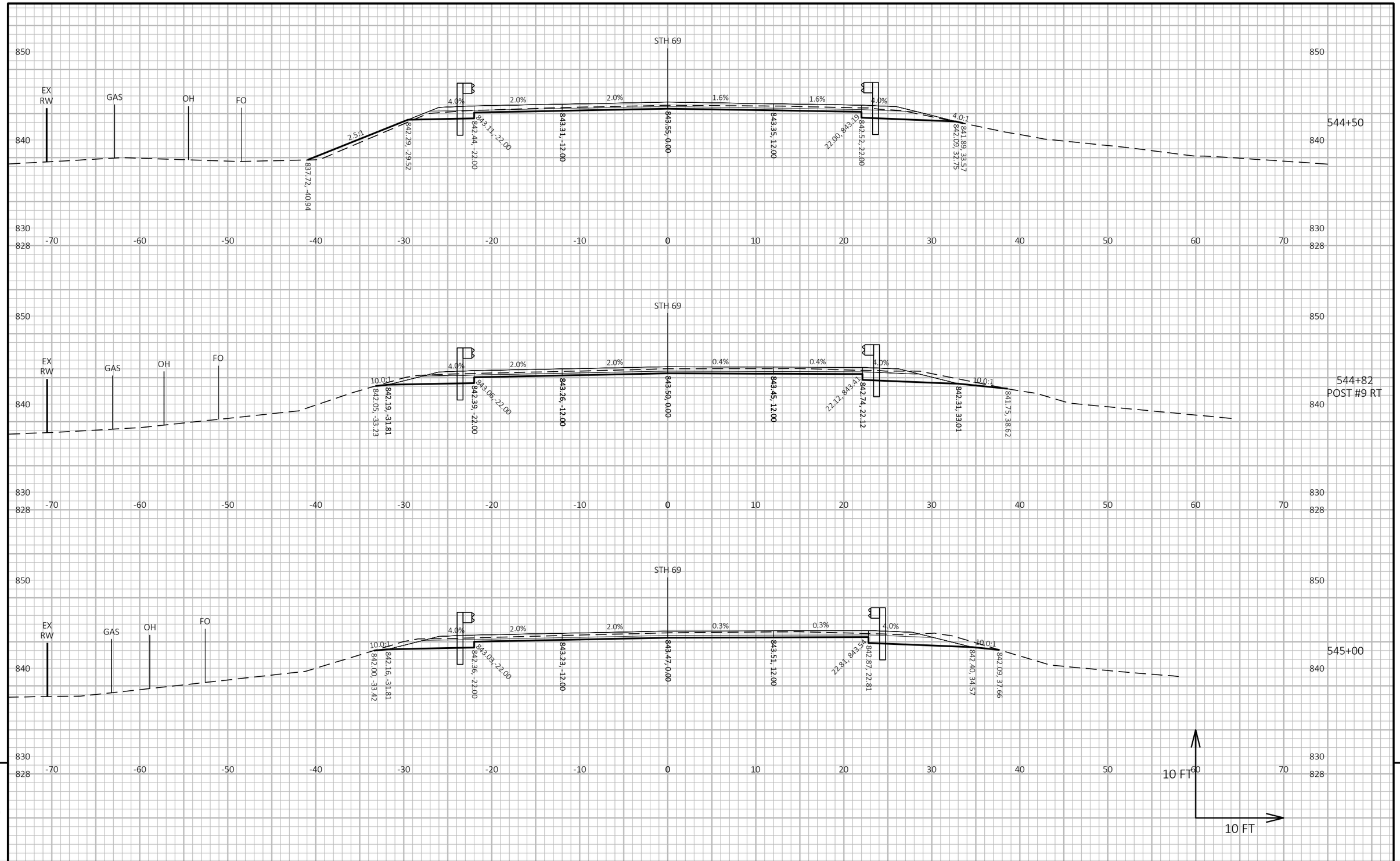
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PLOT BY : BUTTERIS, BRADLEY

PLOT NAME :

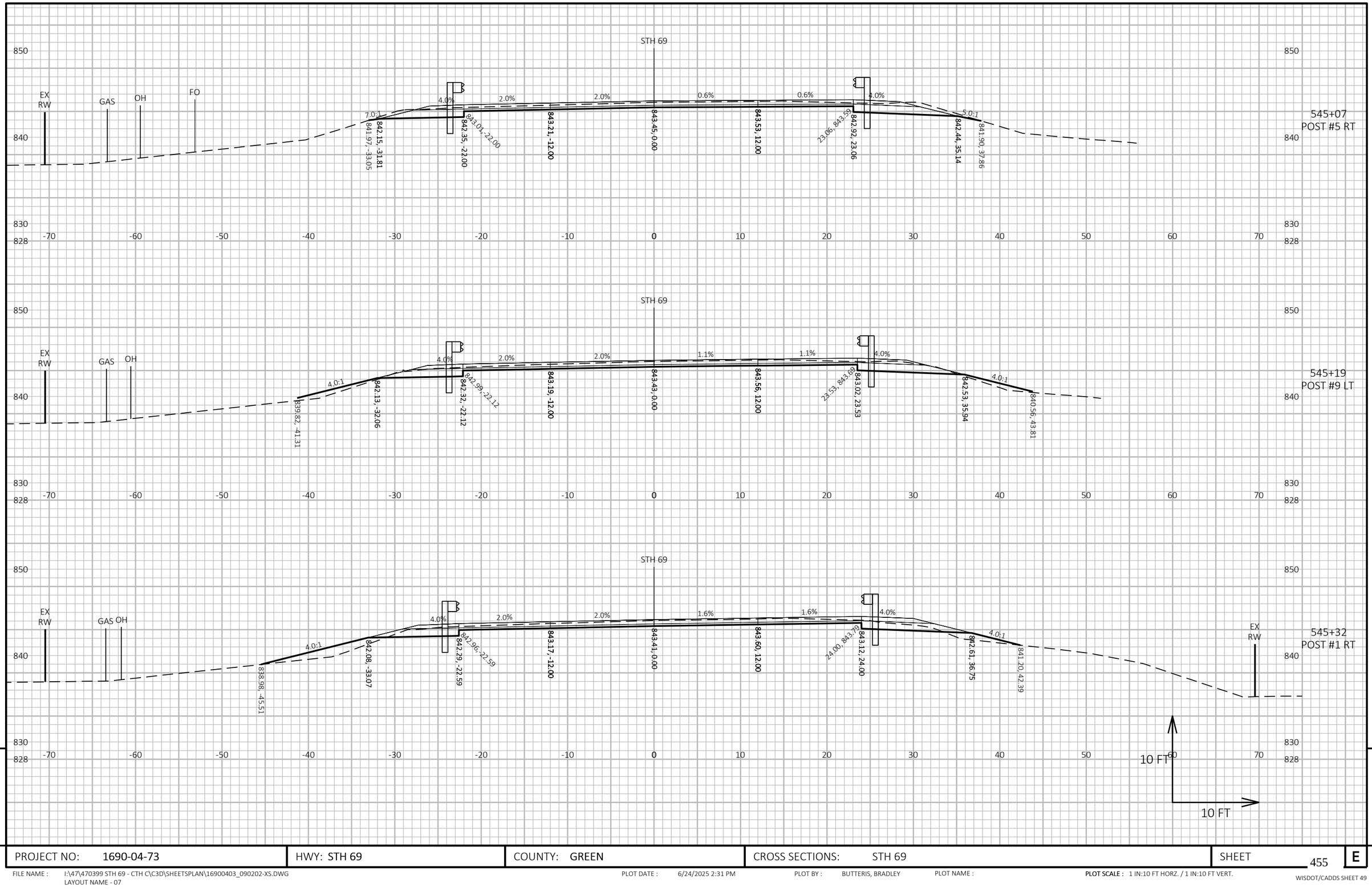
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 454	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_090202-XS.DWG
LAYOUT NAME - 06
PLOT DATE : 6/24/2025 2:31 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 455	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_090202-XS.DWG
LAYOUT NAME - 07

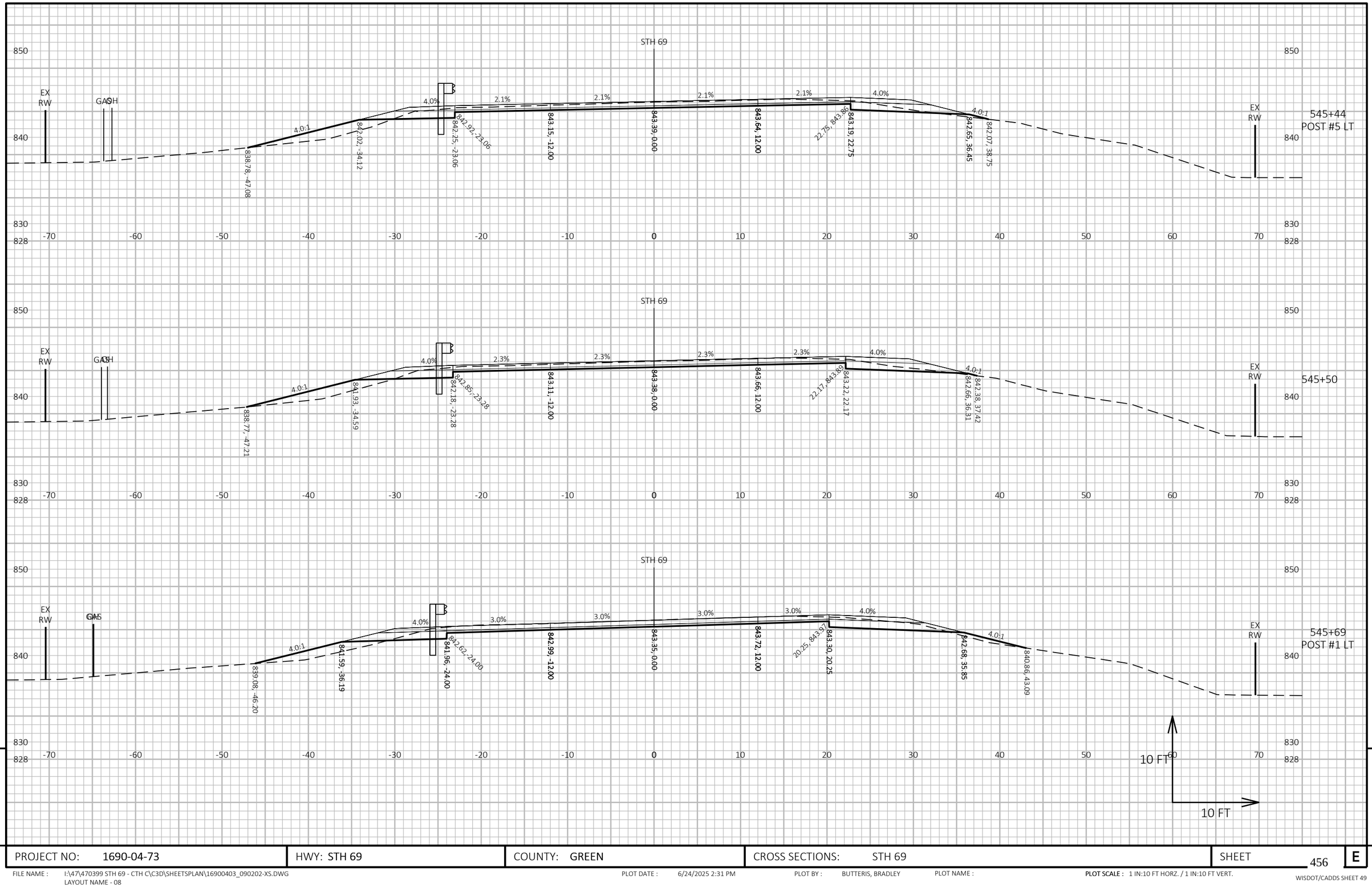
PLOT DATE : 6/24/2025 2:31 PM

PLOT BY : BUTTERIS, BRADLEY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 456	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_090202-XS.DWG
LAYOUT NAME - 08

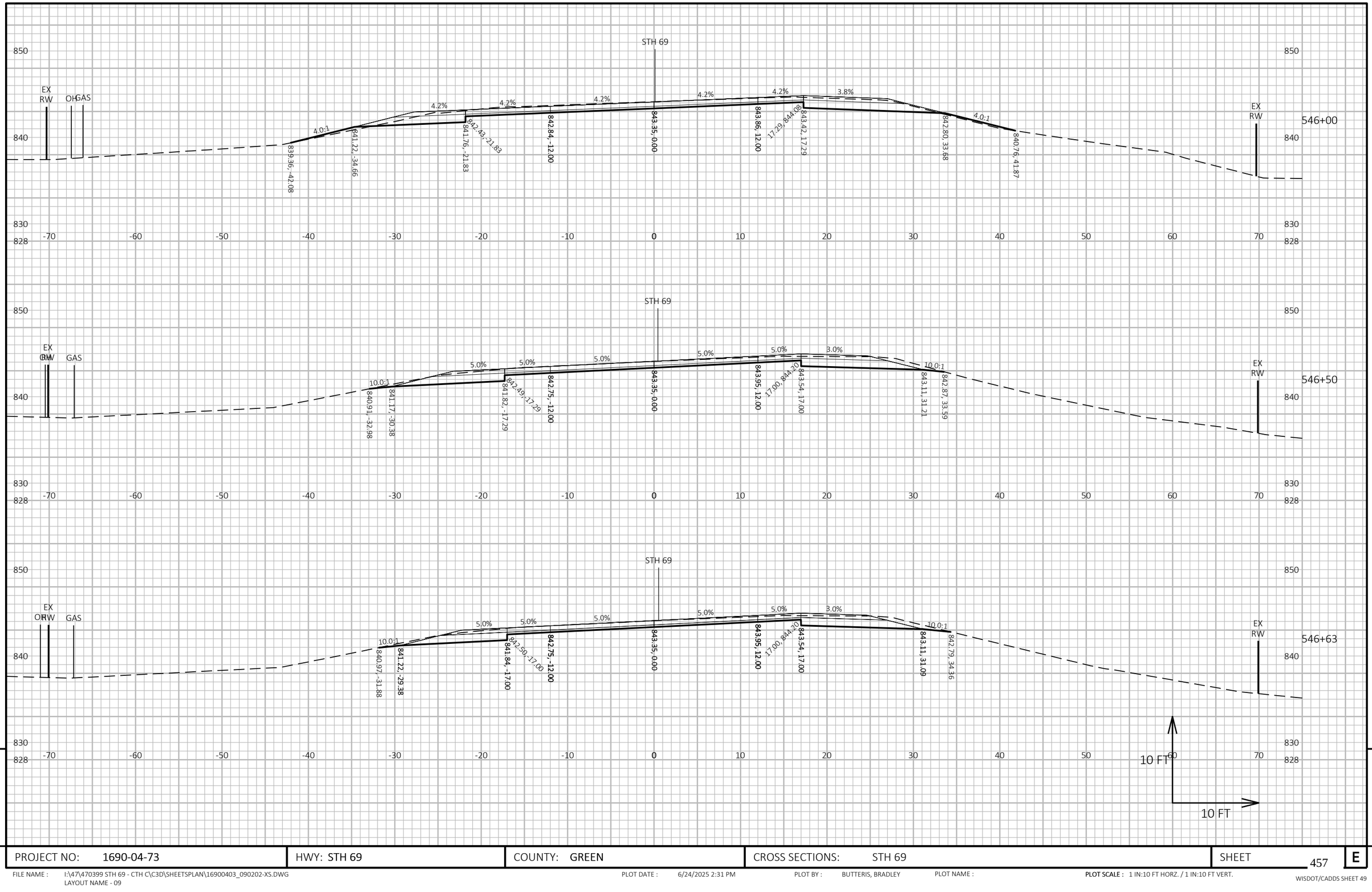
PLOT DATE : 6/24/2025 2:31 PM

PLOT BY : BUTTERIS, BRADLEY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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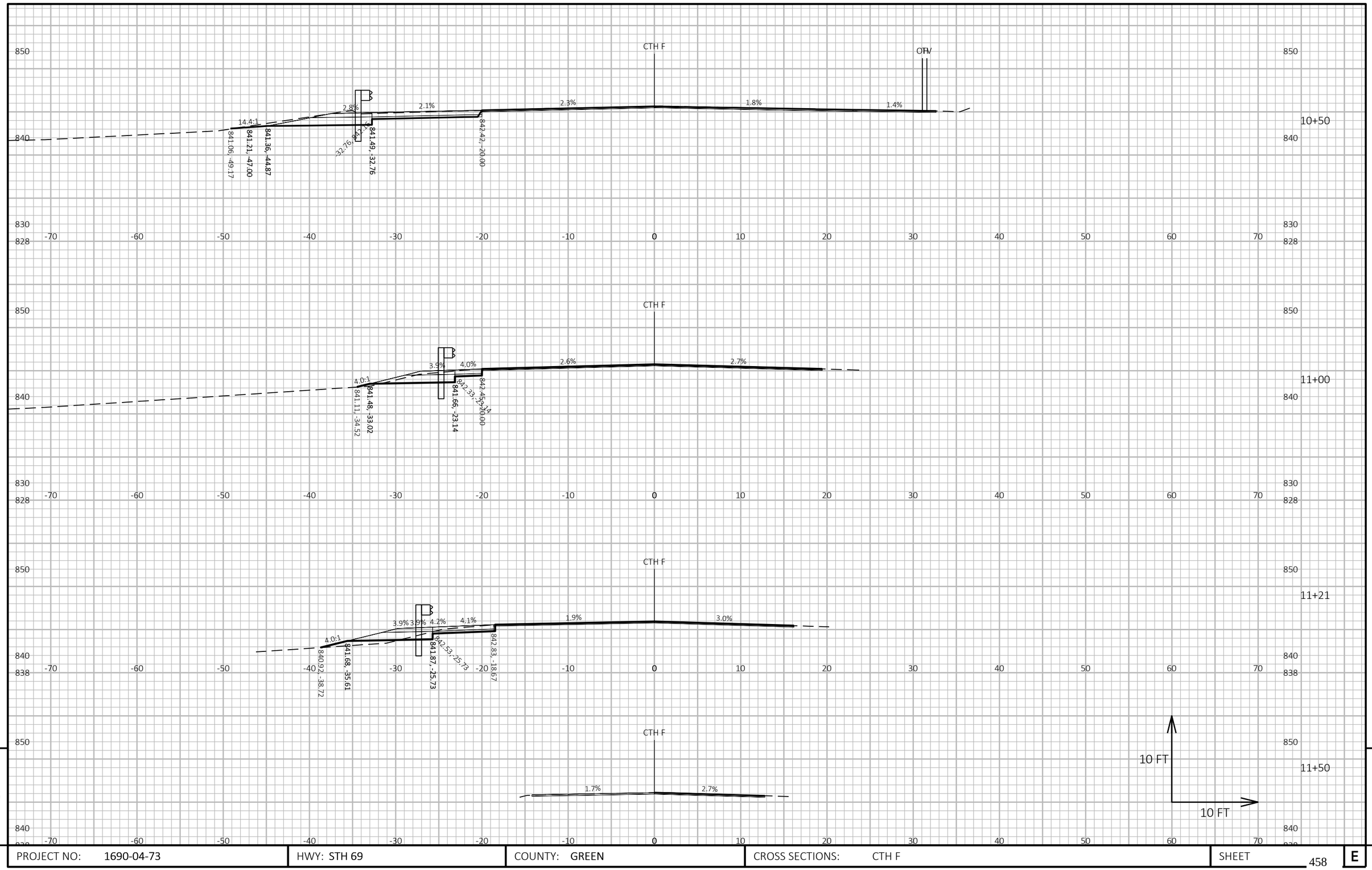
PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: STH 69	SHEET 457	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_090202-XS.DWG
LAYOUT NAME - 09

PLOT DATE : 6/24/2025 2:31 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1690-04-73	HWY: STH 69	COUNTY: GREEN	CROSS SECTIONS: CTH F	SHEET 458	E

FILE NAME : I:\47\470399 STH 69 - CTH C\C3D\SHEETSPLAN\16900403_090202-XS.DWG
LAYOUT NAME - F_01

PLOT DATE : 6/24/2025 2:31 PM

PLOT BY : BUTTERIS, BRADLEY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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