SUP

DECEMBER 2026

PROJECT ID: 8050-00-70

COUNTY: WASHBURN

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 = 170



DESIGN DESIGNATION 8050-00-00

A.A.D.T.	2027	=	3080
A.A.D.T.	2047	=	3080
D.H.V.		=	365.1
D.D.		=	61/39
T.		=	21.20%
DESIGN SPEED		=	55 MPH
ESALS		=	1,030,000

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 (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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SIREN - SPOONER

WEST CO LN TO 1350 FT W OF 1ST ST

STH 70
WASHBURN

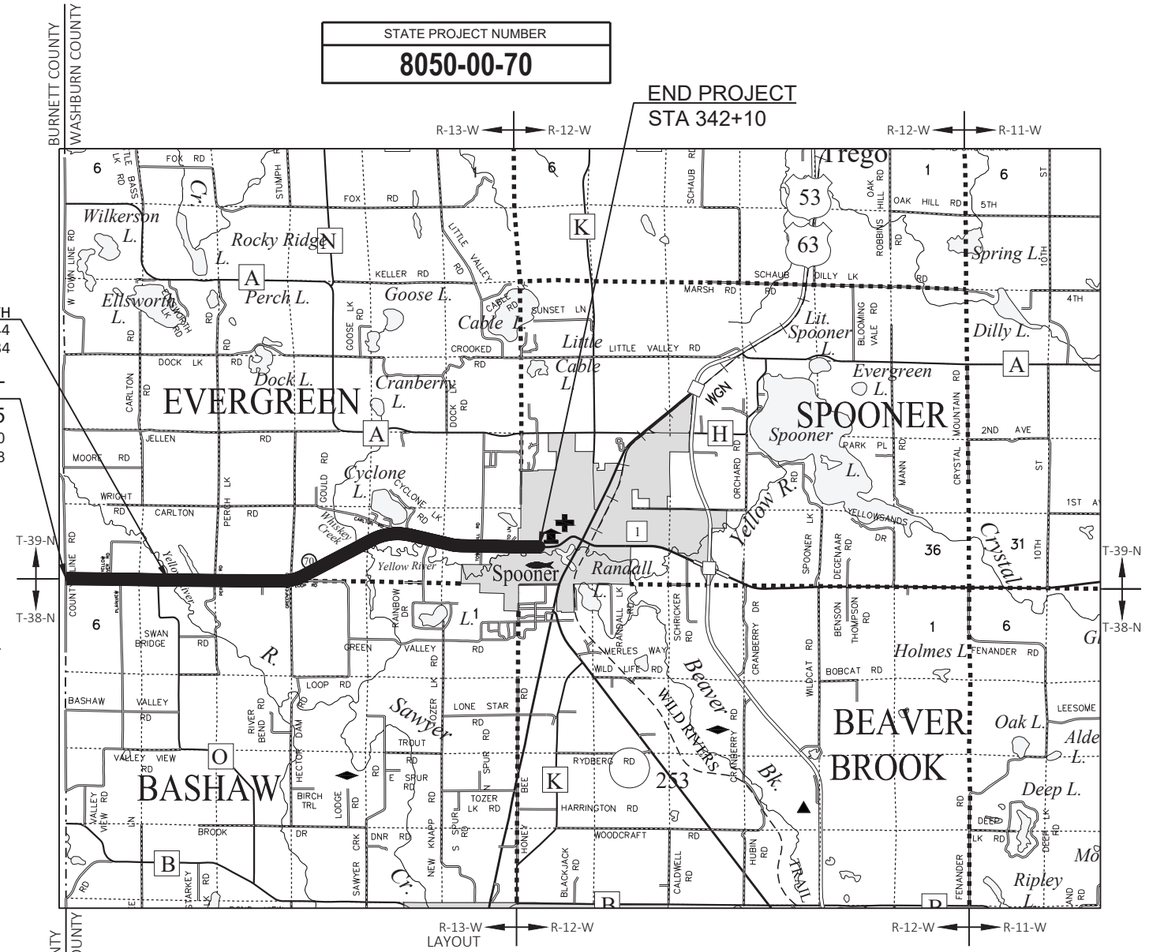
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8050-00-70	WISC 2027087	1

STATE PROJECT NUMBER
8050-00-70

END PROJECT
STA 342+10

NET EXCEPTION TO CL LENGTH
STA 76+03 - STA 77+44
B-65-0034

BEGIN PROJECT
STA 6+25
Y=564,870.370
X=704,712.428



R-13-W R-12-W
LAYOUT
R-12-W R-11-W

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 6.334 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), WASHBURN 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 99.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	SEH
Designer	STEPHEN HAUSER, P.E.
Project Manager	MATTHEW VAN NATTA, P.E.
Regional Examiner	NW REGION
Regional Supervisor	MATTHEW VAN NATTA, P.E.

APPROVED FOR THE DEPARTMENT

DATE: Matthew Van Natta
Location: Superior, WI
Reason: I am approving this document
Date: 2026.08.03 08:40:24-05'00'
(Signature)

E

UTILITIES CONTACTS

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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.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

PIPE ELEVATIONS, LENGTHS AND LOCATIONS AS SHOWN ON THE PLANS, MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2

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 = 30 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.46 ACRES

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

2

N

BEGIN PROJECT
STA 6+25
Y=564,870.370
X=704,712.428

NET EXCEPTION TO CL LENGTH
STA 76+03 - STA 77+44
B-65-0034

COUNTY LINE ROAD

YELLOW RIVER ROAD

PLAINVIEW ROAD

Yellow River

PERCH LAKE ROAD

PERCH LAKE ROAD

GREENFIELD ROAD

GREENFIELD ROAD

LOOP ROAD

2

N

END PROJECT
STA 342+10

Whiskey Creek

CARLTON ROAD

CYCLONE LAKE ROAD

DAGO CREEK CULVERT
STA 263+38

TOWER HILL ROAD

AUTO LANE

70

TOZER LAKE ROAD

TOWER HILL ROAD

WHISKEY CREEK CULVERT
STA 215+10

Yellow River

Spooner

LOOP ROAD

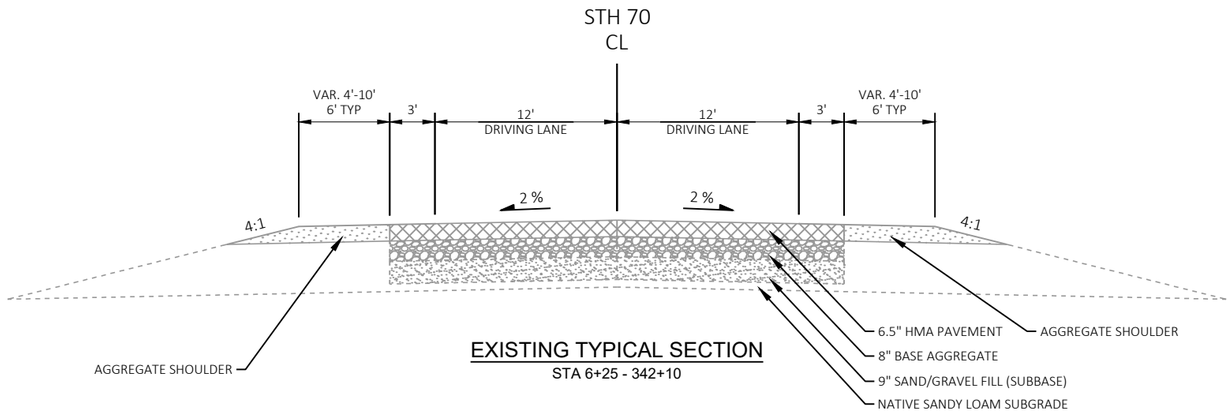
PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PROJECT OVERVIEW	SHEET 3	E

CORE	NORTHING	EASTING	LATITUDE	LONGITUDE	OFFSET	HMA THICKNESS (IN)
C-01	564858.0	705134.6	45.815304	-92.029864	11' RT	6.25
C-02	564872.6	706284.9	45.815354	-92.025353	7' LT	6.375
C-03	564847.0	707105.0	45.815291	-92.022136	5' RT	6.75
C-04	564846.2	708259.5	45.815298	-92.017609	10.5' LT	5.5
C-05	564821.9	709068.2	45.815238	-92.014437	2' RT	6.5
C-06	564811.0	710170.9	45.815216	-92.010113	2.5' LT	6
C-07	564783.0	711103.0	45.815147	-92.006457	11' RT	7.625
C-08	564789.7	712127.0	45.815173	-92.002442	10' LT	6.25
C-09	564754.5	713086.4	45.815084	-91.998679	9' RT	7.875
C-10	564761.1	714086.4	45.815109	-91.994757	8' LT	9.125
C-11	564750.7	715071.0	45.815088	-91.990896	2' RT	9
C-12	564757.5	716059.6	45.815113	-91.987019	8.5' LT	8.125

CORE	NORTHING	EASTING	LATITUDE	LONGITUDE	OFFSET	HMA THICKNESS (IN)
C-13	564734.3	717028.5	45.815057	-91.98322	9' RT	8.625
C-14	564742.5	717946.3	45.815085	-91.979621	3' LT	6.5
C-15	564727.2	719002.9	45.81505	-91.975477	6.5' RT	7
C-16	564741.2	719927.0	45.815095	-91.971853	8' LT	8.625
C-17	564953.9	720894.4	45.815684	-91.968061	2' RT	8.125
C-18	565437.3	721815.3	45.817016	-91.964454	8' LT	7.375
C-19	565848.0	722635.0	45.818147	-91.961243	6.5' RT	8.125
C-20	566336.0	723546.3	45.81949	-91.957674	2.5' LT	7.625
C-21	566763.6	724375.7	45.820668	-91.954425	3.5' RT	7.125
C-22	567254.8	725288.1	45.82202	-91.95085	7' LT	16.25
C-23	567662.8	726113.4	45.823144	-91.947617	6' RT	7.375
C-24	567976.2	727087.8	45.824009	-91.943798	7' LT	7.125

CORE	NORTHING	EASTING	LATITUDE	LONGITUDE	OFFSET	HMA THICKNESS (IN)
C-25	567995.3	728038.8	45.824066	-91.940068	9' RT	7
C-26	567816.1	729034.2	45.82358	-91.936162	2.5' LT	8.125
C-27	567592.6	729947.6	45.822972	-91.932578	7.5' RT	9.375
C-28	567364.7	730982.6	45.822352	-91.928517	10' LT	6.75
C-29	567183.5	731871.3	45.82186	-91.92503	9' RT	8.375
C-30	567166.4	732935.8	45.821818	-91.920855	3.5' LT	6
C-31	567142.8	733841.4	45.821758	-91.917304	2' RT	6.75
C-32	567131.6	734891.6	45.821731	-91.913184	6' LT	6.125
C-33	567101.5	735819.4	45.821653	-91.909545	6' RT	6.375
C-34	567097.3	736853.3	45.821646	-91.905491	10' LT	6.125
C-35	567087.3	737823.4	45.821622	-91.901686	10.5' RT	7.125

CORING LOG

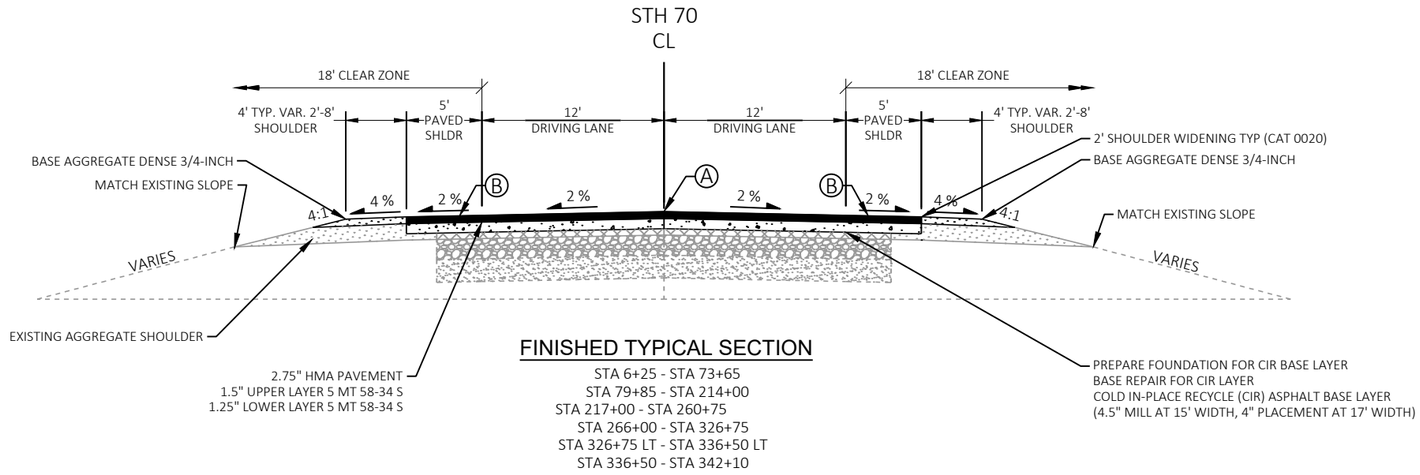


EXISTING TYPICAL SECTION
STA 6+25 - 342+10

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TYPICAL SECTIONS	SHEET 4	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 01-10ft
PLOT DATE : 10/21/2026 4:13 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



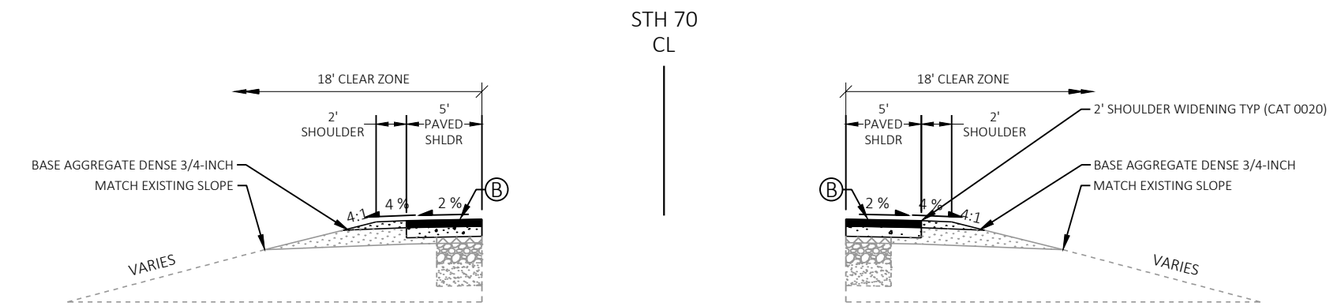
FINISHED TYPICAL SECTION

STA 6+25 - STA 73+65
STA 79+85 - STA 214+00
STA 217+00 - STA 260+75
STA 266+00 - STA 326+75
STA 326+75 LT - STA 336+50 LT
STA 336+50 - STA 342+10

Ⓐ ASPHALTIC RUMBLE STRIPS, CENTERLINE REQ'D. SEE MISCELLANEOUS QUANTITIES AND STANDARD DETAIL DRAWINGS FOR DETAILS.

Ⓑ ASPHALTIC RUMBLE STRIPS, SHOULDER REQ'D. (CAT 0020) SEE MISCELLANEOUS QUANTITIES AND STANDARD DETAIL DRAWINGS FOR DETAILS.

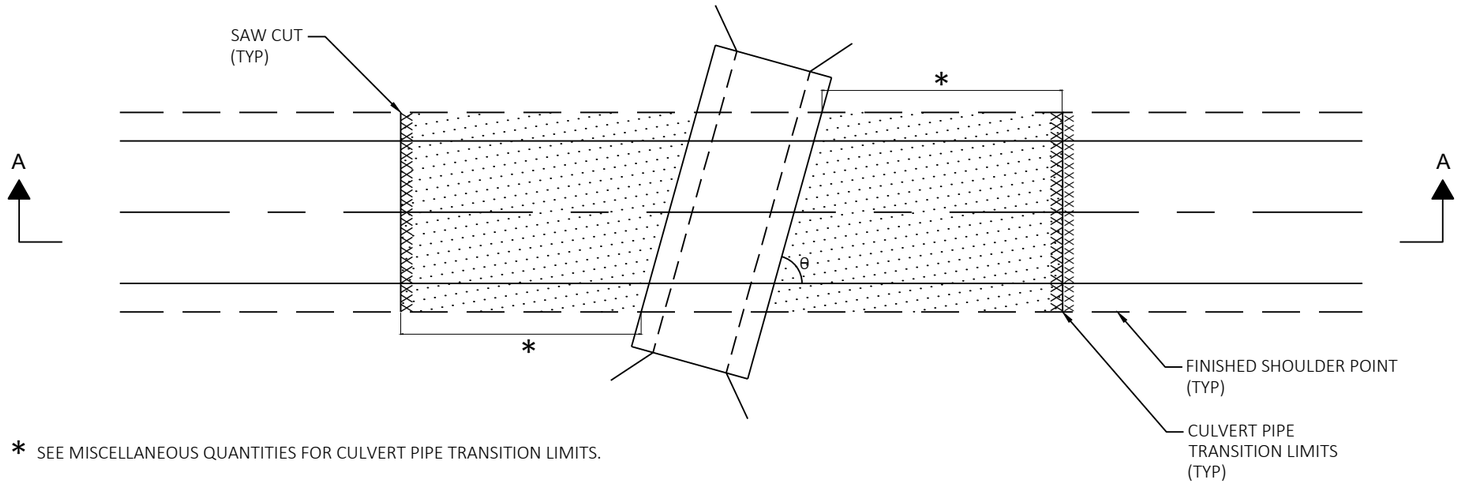
THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH. PERPETUATE EXISTING SHOULDERS THAT ARE WIDER THAN WHAT IS SHOWN IN THE TYPICAL SECTIONS.



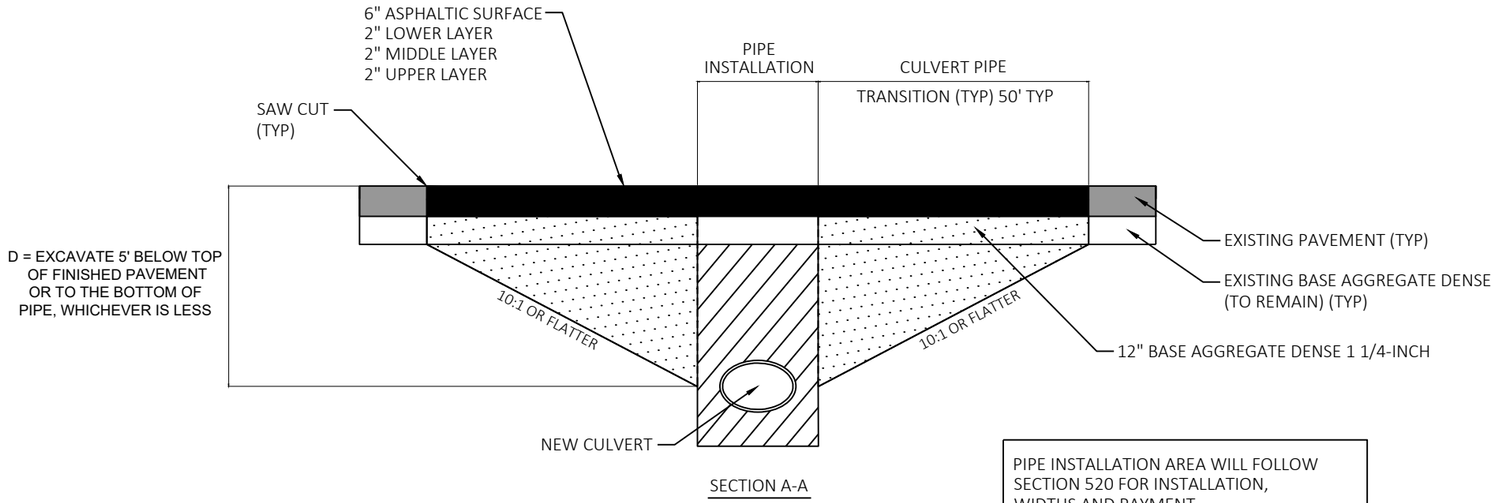
FINISHED TYPICAL SECTION

STA 73+65 - STA 79+85
STA 214+00 - STA 217+00
STA 260+75 - STA 266+00
STA 326+75 RT - STA 336+50 RT

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TYPICAL SECTIONS	SHEET 5	E



* SEE MISCELLANEOUS QUANTITIES FOR CULVERT PIPE TRANSITION LIMITS.



NEW CULVERT PIPES WITH TRANSITION

- WHISKY CREEK CULVERT: STA 215+10
- CULVERT 6507003110: STA 227+96
- DAGO CREEK CULVERT: STA 263+38
- CULVERT 6507003112: STA 281+54

PIPE INSTALLATION AREA WILL FOLLOW SECTION 520 FOR INSTALLATION, WIDTHS AND PAYMENT.

CONSTRUCT TRANSITION PERPENDICULAR TO CULVERT PIPE.

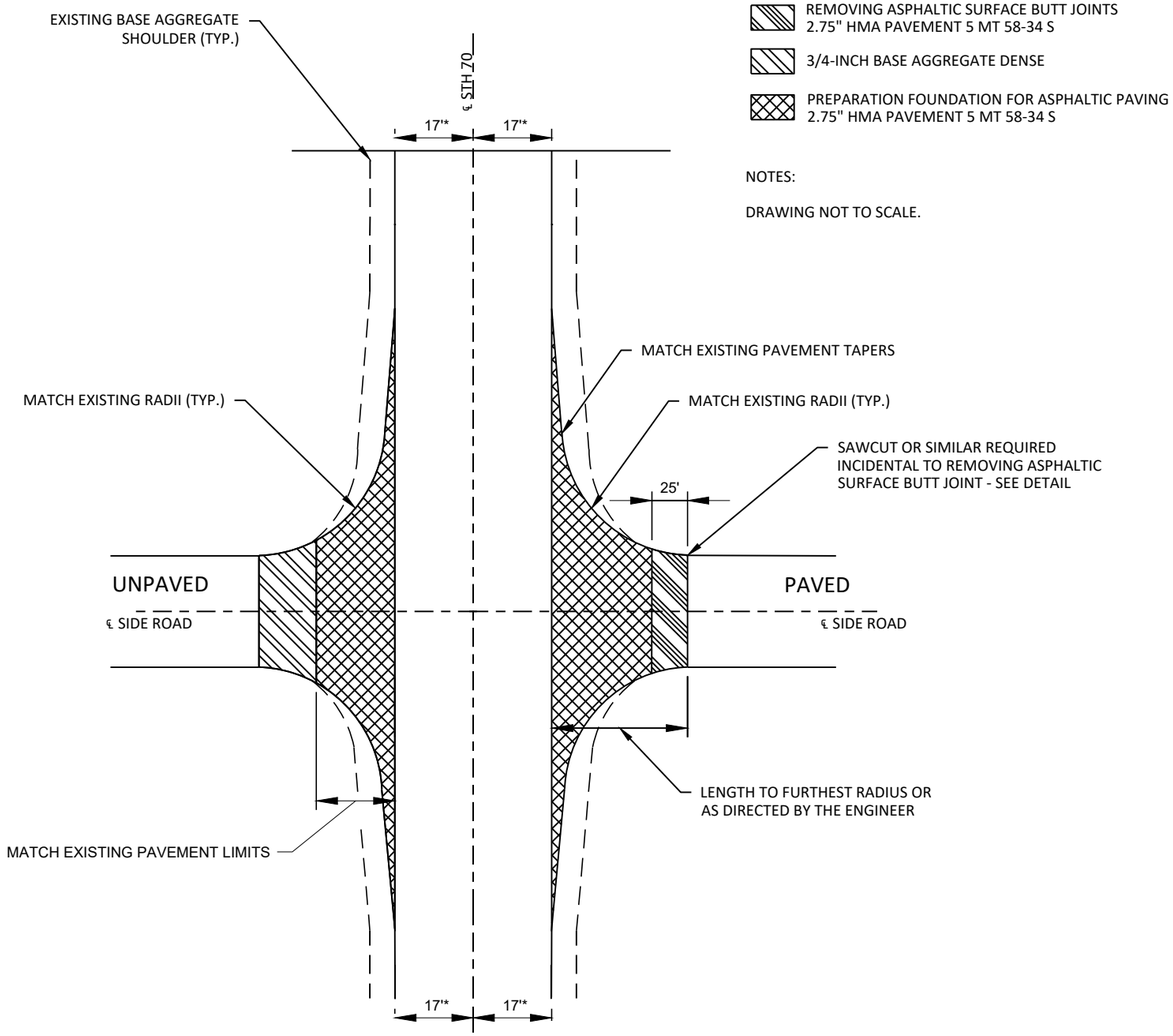
CULVERT PIPE TRANSITION AREAS WILL BE PAID BY EXCAVATION COMMON.

PAVEMENT SAW CUT TO BE PERPENDICULAR TO ROADWAY ALIGNMENT.

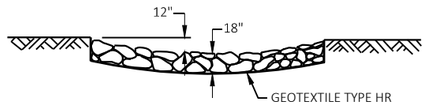
CULVERT PIPE REPLACEMENTS, TRANSITION CUT, BASE AGGREGATE, AND ASPHALTIC SURFACE SHALL BE COMPLETED PRIOR TO CIR OPERATIONS.

2

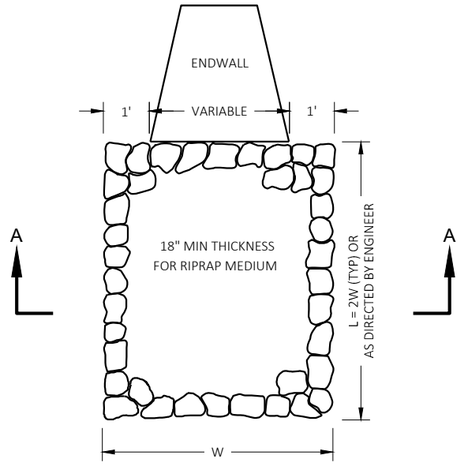
* SEE TYPICAL SECTIONS FOR REMOVING ASPHALTIC SURFACE MILLING AND HMA PAVEMENT DEPTHS



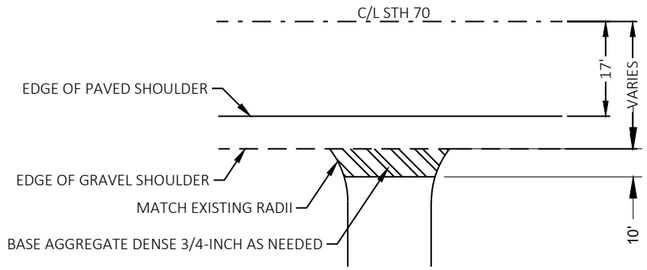
PAVED AND UNPAVED SIDE ROAD WITHOUT CURB AND GUTTER - RURAL



SECTION A-A

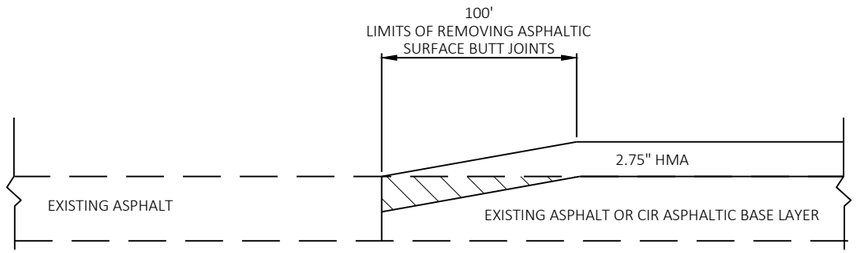


RIPRAP MEDIUM TREATMENT AT CULVERTS



DETAIL OF UNPAVED PRIVATE ENTRANCE

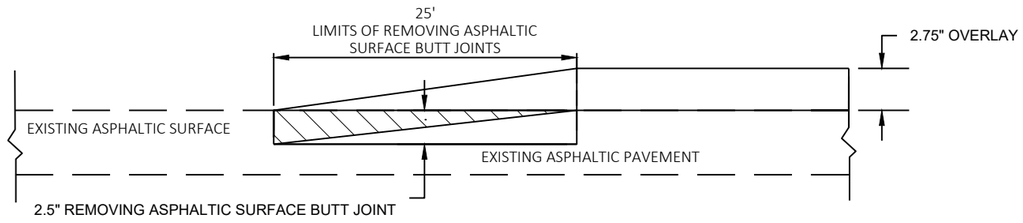
NOTE: SEE SIDEROAD & DRIVEWAY BUTT JOINT DETAIL FOR PAVED PRIVATE ENTRANCE



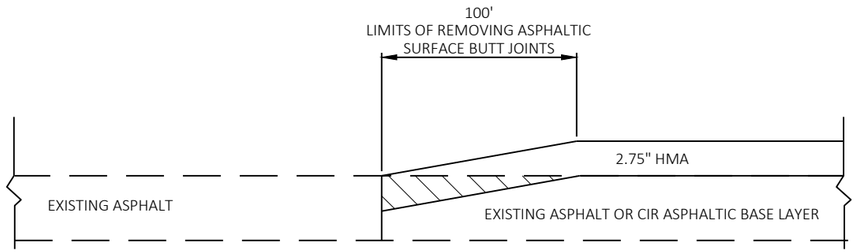
DETAIL FOR TERMINAL MAINLINE BUTT JOINT

- STA 6+25 - 6+75 STH 70 BEGIN PROJECT
- STA 341+60 - 342+10 STH 70 END PROJECT

REQUIRED AT BEGIN AND END
PAVING LOCATIONS

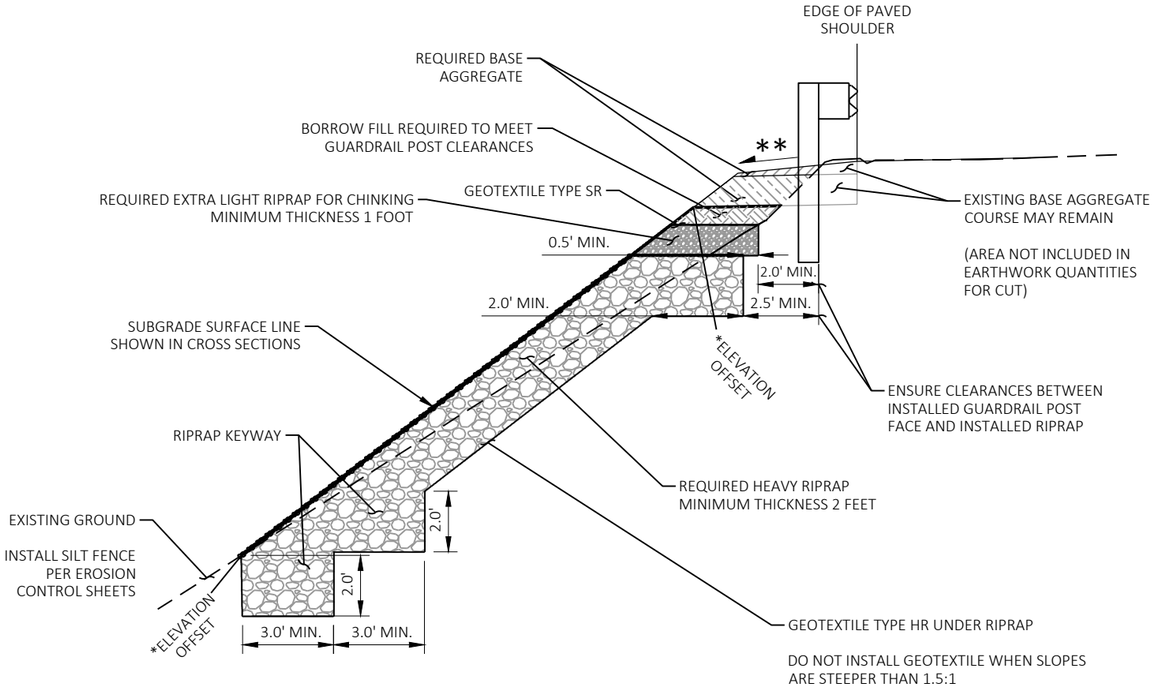


DETAIL FOR SIDEROAD & DRIVEWAY BUTT JOINT



DETAIL FOR STRUCTURE BUTT JOINT

REMOVING ASPHALTIC SURFACE BUTT JOINT



LEGEND

- NEW BASE AGGREGATE DENSE 3/4-INCH
- NEW BASE AGGREGATE DENSE 1 1/4-INCH
- BORROW FILL
- EXTRA LIGHT RIPRAP FOR CHINKING
- HEAVY RIPRAP

NOTES:

DO NOT PLACE FABRIC UNDER RIPRAP WHEN SLOPES ARE STEEPER THAN 1.5:1.

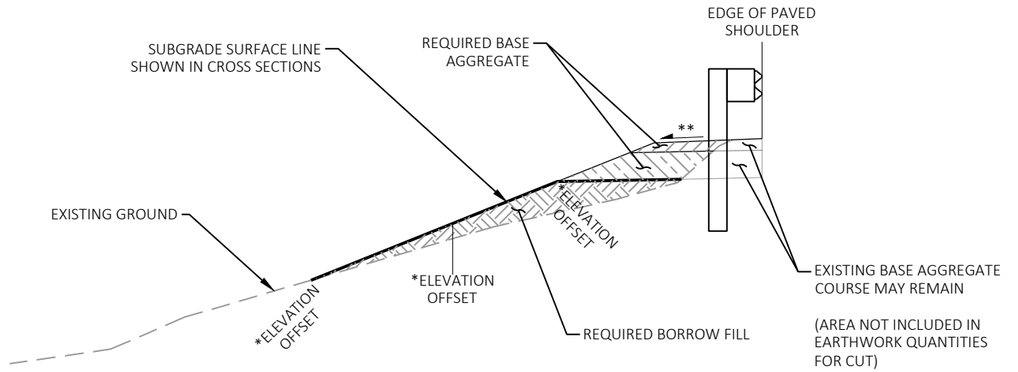
DO NOT INSTALL EXTRA LIGHT RIPRAP WITHIN 2 FEET OF INSTALLED GUARDRAIL POST FACE. DO NOT INSTALL HEAVY RIPRAP WITHIN 2.5 FEET OF INSTALLED GUARDRAIL POST FACE.

* ELEVATION AND OFFSET TYPICALLY PROVIDED ON CROSS SECTIONS AT SUBGRADE SHOULDER POINT, RECOVER POINT (IF APPLICABLE), AND SLOPE INTERCEPT.

** SHOULDER SLOPE PROVIDED ON CROSS SECTIONS.

SHOULDER WIDENING WITH RIPRAP EROSION CONTROL & BASE AGGREGATE FOR GUARDRAIL DETAIL

- STA 76+14 - 76+26 YELLOW RIVER BRIDGE (B-65-0034) WEST END
- STA 77+26 - 77+37 YELLOW RIVER BRIDGE (B-65-0034) EAST END



LEGEND

- NEW BASE AGGREGATE DENSE 3/4-INCH
- NEW BASE AGGREGATE DENSE 1 1/4-INCH
- BORROW FILL

NOTES:

BENCH FILL AS REQUIRED PER STANDARD SPEC 205.3.2(4).

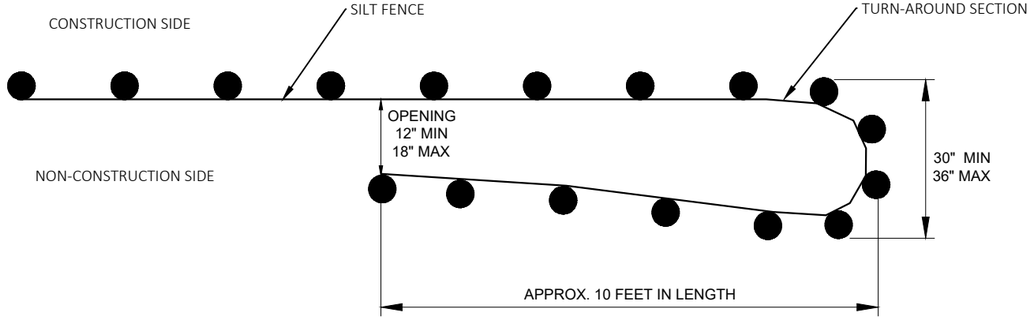
TOP SOIL SHOULD BE REMOVED PRIOR TO BORROW

* ELEVATION AND OFFSET TYPICALLY PROVIDED ON CROSS SECTIONS AT SUBGRADE SHOULDER POINT, RECOVER POINT (IF APPLICABLE), AND SLOPE INTERCEPT.

** SHOULDER SLOPE PROVIDED ON CROSS SECTIONS.

SHOULDER WIDENING EARTHWORK & BASE AGGREGATE FOR GUARDRAIL DETAIL

SEE PLAN SHEETS, CROSS SECTIONS, AND TYPICAL SECTIONS FOR LOCATIONS



PLAN VIEW

NOTE:

SILT FENCE POSTS FOR EXCLUSION FENCING SHOULD BE ON THE CONSTRUCTION SIDE OF THE FENCE AND THE OUTSIDE OF THE TURN-AROUND.

NON-CONSTRUCTION SIDE OF FENCE TO BE KEPT FREE OF TALL VEGETATION OR OTHER DEBRIS THAT COULD ALLOW ANIMALS TO MANEUVER OVER FENCING.

AMPHIBIAN AND REPTILE EXCLUSION FENCING TURN-AROUND DETAIL

2

2

EXISTING R/W

EXISTING R/W

N

331

332

EP: 1+54.64

333

SEE PLAN SHEETS FOR DETAILS ON PROPOSED MGS

SEE PLAN SHEETS FOR DETAILS ON PROPOSED MGS

20' TYP

SLOPE INTERCEPT

SHOULDER AGGREGATE

6" BASE AGGREGATE DENSE 3/4-INCH

PT: 1+16.31

DRIVEWAY CENTERLINE

FIELD ADJUST TO ALLOW FOR FLOW OVER DRIVEWAY

EXISTING R/W

BP: 0+00.00

PC: 0+69.19

SANITARY MANHOLE

STA 331+89.06
67.96' RT

SENSITIVE AREA

BEGIN CONSTRUCTION
STA 0+28.52

Y=567,030.495
X=736,305.512

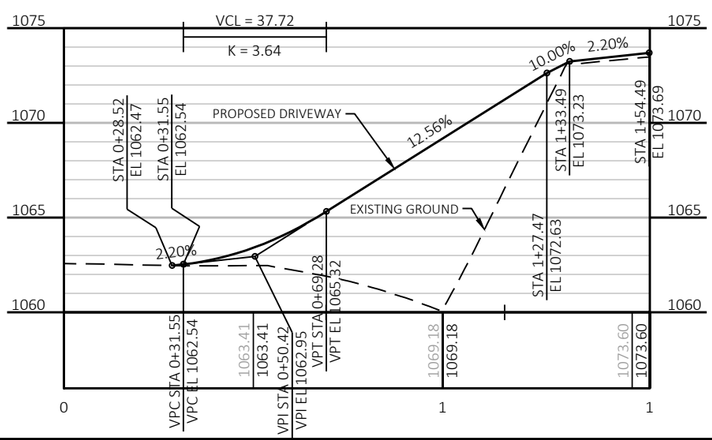
EXISTING R/W

SLOPE INTERCEPT

PARCEL BOUNDARY

TEMPORARY LIMITED EASEMENT

SPOONER CITY LIMITS



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN DETAIL: DRIVEWAY REPLACEMENT	SHEET 10	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\021201-PN.DWG
LAYOUT NAME - Driveway

PLOT DATE : 7/24/2026 3:00 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

N

TEMPORARY LIMITED EASEMENT

AREA OF SURFACE WATER

WHISKEY CREEK

BP: 0+00.00

EXISTING R/W

COFFERDAM

SLOPE INTERCEPT

CULVERT PIPE TEMPORARY 72-INCH
INVERTS = 1026'

S38°22'04"E
110.00'

SEE PLAN SHEETS FOR DETAILS
ON PROPOSED CULVERT PIPE

EXISTING STRUCTURE
TO BE REMOVED

SLOPE INTERCEPT

TEMPORARY CHANNEL SLOPE
INTERCEPT

PC: 1+00.00

CENTERLINE OF TEMPORARY
BYPASS CHANNEL

PI STA = 1+05.49
Y = 567057.999
X = 725052.326
DELTA = 56°12'41" RT
D = 557°17'51"
T = 5.49'
L = 10.09'
R = 10.28'
PC STA = 1+00.00
PT STA = 1+10.09

PT: 1+10.09

16.61'
S49°08'37"W

EP: 1+26.69

TEMPORARY LIMITED EASEMENT

WHISKEY CREEK

EXISTING R/W

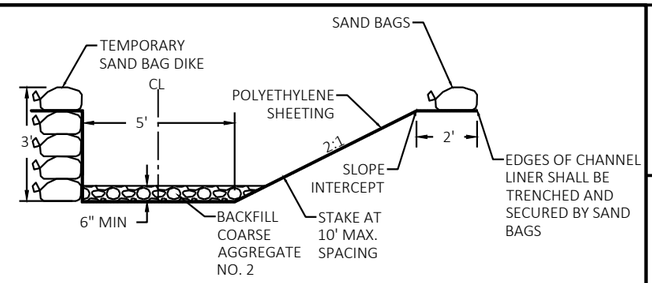
COFFERDAM

214

215

TYPICAL SECTION OF TEMPORARY BYPASS CHANNEL

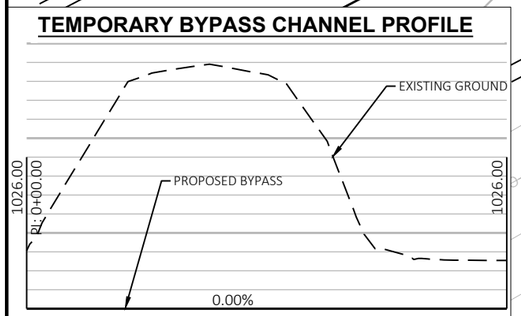
OVERLAP POLYETHYLENE SHEETING MIN. 3' WHERE NECESSARY



NOTES
THE PROVIDED SCHEMATIC IS FOR INFORMATION ONLY, SELECTED METHOD OF BYPASSING LIVE FLOW SHALL MEET THE SPECIFICATIONS OF THE ECIP SUBMITTED TO AND ACCEPTED BY THE ENGINEER.

COFFERDAMS ARE REQUIRED ON THE UPSTREAM AND DOWNSTREAM ENDS OF NEW CULVERT WORK AREA TO ISOLATE THE WORK AREA FROM ACTIVE FLOW. CULVERT WORK AREA SHALL BE DEWATERED AND CONSTRUCTED UNDER DRY CONDITIONS.

TEMPORARY BYPASS CHANNEL PROFILE



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TEMPORARY BYPASS CHANNEL - WHISKEY CREEK	SHEET 11	E

2

TEMPORARY LIMITED EASEMENT

EXISTING R/W

BP: 0+00.00

DAGO CREEK

PT: 0+20.22

S36°42'22"E
15.65'

S63°28'29"E
25.27'

PC: 0+15.65

PC: 0+45.49

PI STA = 0+17.96
Y = 567789.684
X = 729484.106
DELTA = 21°45'36" LT
D = 477°06'06"
T = 2.31'
L = 4.56'
R = 12.01'
PC STA = 0+15.65
PT STA = 0+20.22

PI STA = 0+50.05
Y = 567775.291
X = 729512.843
DELTA = 48°59'33" RT
D = 572°57'28"
T = 4.56'
L = 8.55'
R = 10.00'
PC STA = 0+45.49
PT STA = 0+54.04

SLOPE INTERCEPT

PT: 0+54.04

COFFERDAM

S14°28'47"E
26.18'

CENTERLINE OF TEMPORARY BYPASS CHANNEL

TEMPORARY CHANNEL SLOPE INTERCEPT

PC: 0+80.20

PT: 0+85.84

PI STA = 0+83.02
Y = 567742.821
X = 729521.229
DELTA = 6°27'45" RT
D = 114°35'30"
T = 2.82'
L = 5.64'
R = 50.00'
PC STA = 0+80.20
PT STA = 0+85.84

SEE PLAN SHEETS FOR DETAILS
ON PROPOSED CULVERT PIPE

CULVERT PIPE TEMPORARY 72-INCH
INVERTS = 1033'

EXISTING STRUCTURE
TO BE REMOVED

S8°01'11"E
87.18'

SEE PLAN SHEETS FOR DETAILS
ON PROPOSED MGS

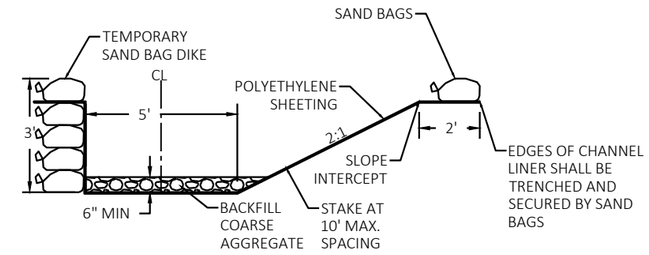
COFFERDAM

EP: 1+73.02

DAGO CREEK

SLOPE INTERCEPT

EXISTING R/W



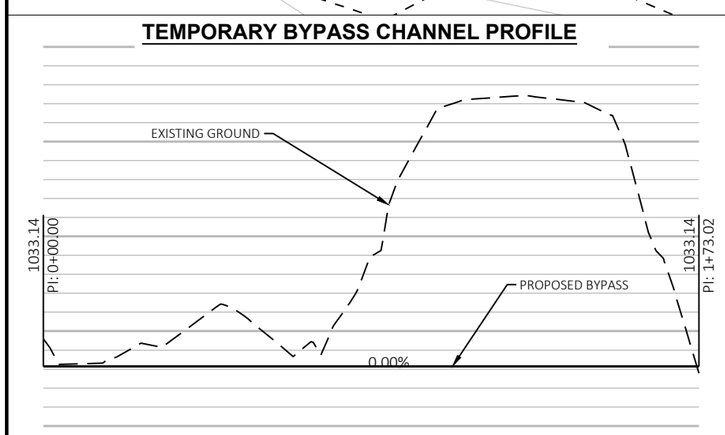
TYPICAL SECTION OF TEMPORARY BYPASS CHANNEL

OVERLAP POLYETHYLENE SHEETING MIN. 3' WHERE NECESSARY

NOTES
THE PROVIDED SCHEMATIC IS FOR INFORMATION ONLY, SELECTED METHOD OF BYPASSING LIVE FLOW SHALL MEET THE SPECIFICATIONS OF THE ECIP SUBMITTED TO AND ACCEPTED BY THE ENGINEER.

COFFERDAMS ARE REQUIRED ON THE UPSTREAM AND DOWNSTREAM ENDS OF NEW CULVERT WORK AREA TO ISOLATE THE WORK AREA FROM ACTIVE FLOW. CULVERT WORK AREA SHALL BE DEWATERED AND CONSTRUCTED UNDER DRY CONDITIONS.

TEMPORARY BYPASS CHANNEL PROFILE



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TEMPORARY BYPASS CHANNEL - DAGO CREEK	SHEET 12	E

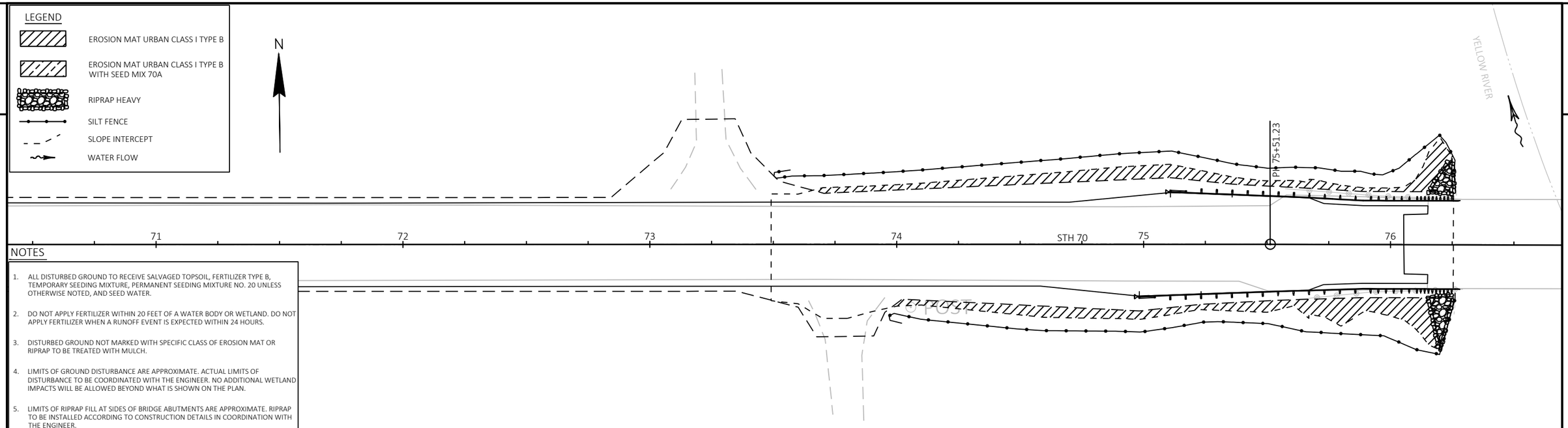
FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\021202-PN.DWG
LAYOUT NAME - DAGO

PLOT DATE : 7/24/2026 3:07 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

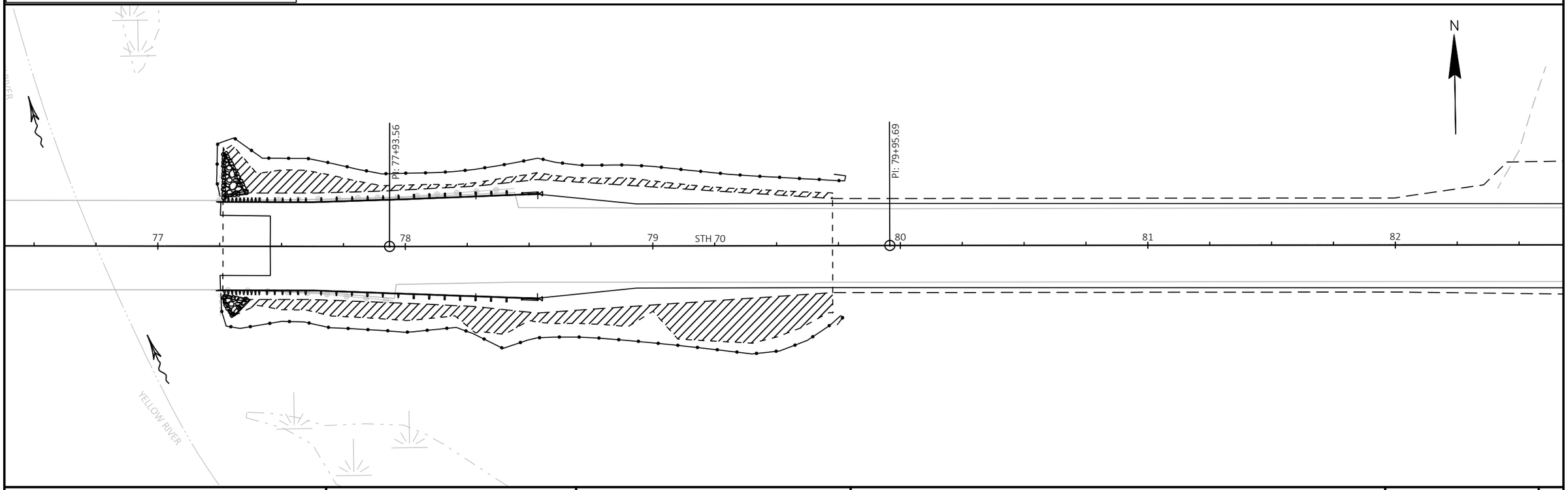
LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B WITH SEED MIX 70A
- RIPRAP HEAVY
- SILT FENCE
- SLOPE INTERCEPT
- WATER FLOW



NOTES

1. ALL DISTURBED GROUND TO RECEIVE SALVAGED TOPSOIL, FERTILIZER TYPE B, TEMPORARY SEEDING MIXTURE, PERMANENT SEEDING MIXTURE NO. 20 UNLESS OTHERWISE NOTED, AND SEED WATER.
2. DO NOT APPLY FERTILIZER WITHIN 20 FEET OF A WATER BODY OR WETLAND. DO NOT APPLY FERTILIZER WHEN A RUNOFF EVENT IS EXPECTED WITHIN 24 HOURS.
3. DISTURBED GROUND NOT MARKED WITH SPECIFIC CLASS OF EROSION MAT OR RIPRAP TO BE TREATED WITH MULCH.
4. LIMITS OF GROUND DISTURBANCE ARE APPROXIMATE. ACTUAL LIMITS OF DISTURBANCE TO BE COORDINATED WITH THE ENGINEER. NO ADDITIONAL WETLAND IMPACTS WILL BE ALLOWED BEYOND WHAT IS SHOWN ON THE PLAN.
5. LIMITS OF RIPRAP FILL AT SIDES OF BRIDGE ABUTMENTS ARE APPROXIMATE. RIPRAP TO BE INSTALLED ACCORDING TO CONSTRUCTION DETAILS IN COORDINATION WITH THE ENGINEER.
6. SILT FENCE AT YELLOW RIVER, WHISKEY CREEK, AND DAGO CREEK TO BE INSTALLED ACCORDING TO REPTILE EXCLUSION FENCING CONSTRUCTION DETAIL.
7. SEE GENERAL NOTES FOR MORE ACCESS AND EROSION CONTROL INFORMATION.

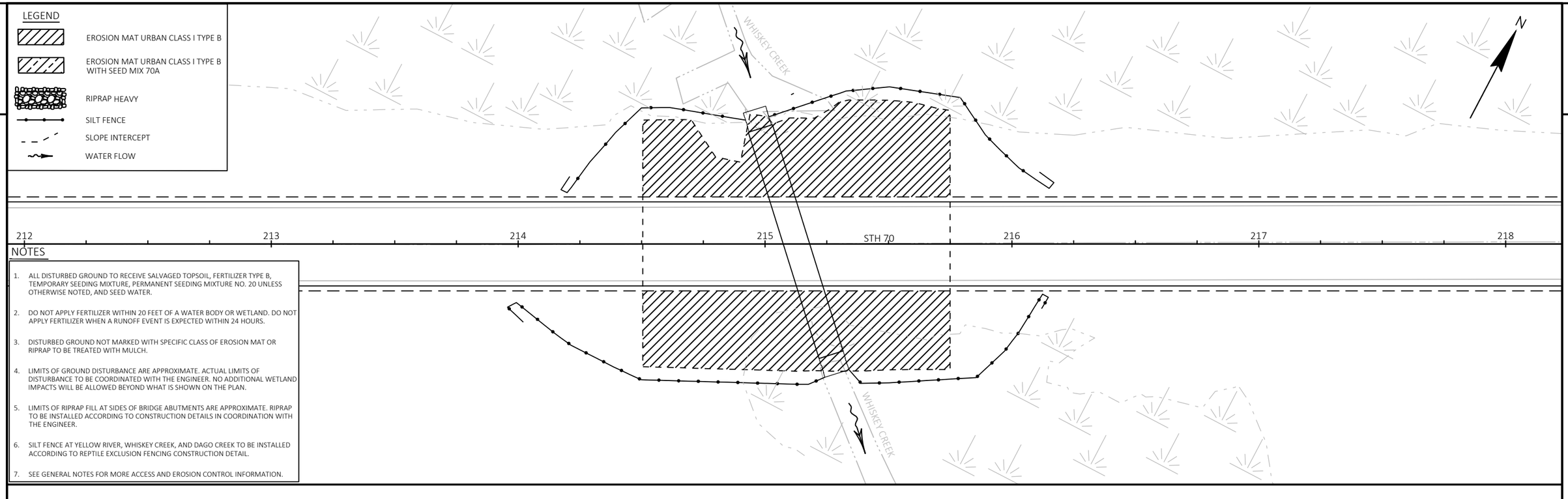


PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	EROSION CONTROL	SHEET 13	E

2

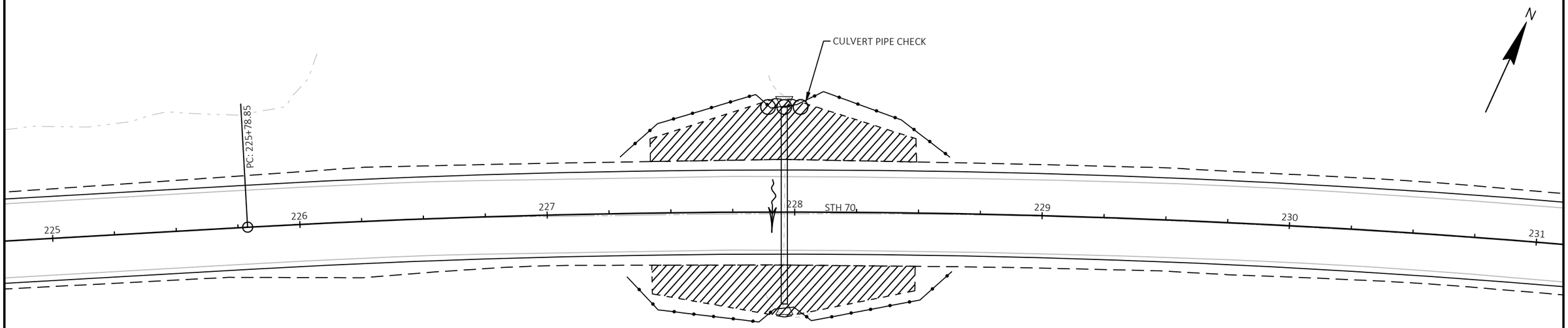
LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B WITH SEED MIX 70A
- RIPRAP HEAVY
- SILT FENCE
- SLOPE INTERCEPT
- WATER FLOW



NOTES

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6. SILT FENCE AT YELLOW RIVER, WHISKEY CREEK, AND DAGO CREEK TO BE INSTALLED ACCORDING TO REPTILE EXCLUSION FENCING CONSTRUCTION DETAIL.
7. SEE GENERAL NOTES FOR MORE ACCESS AND EROSION CONTROL INFORMATION.



2

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	EROSION CONTROL	SHEET 14	E

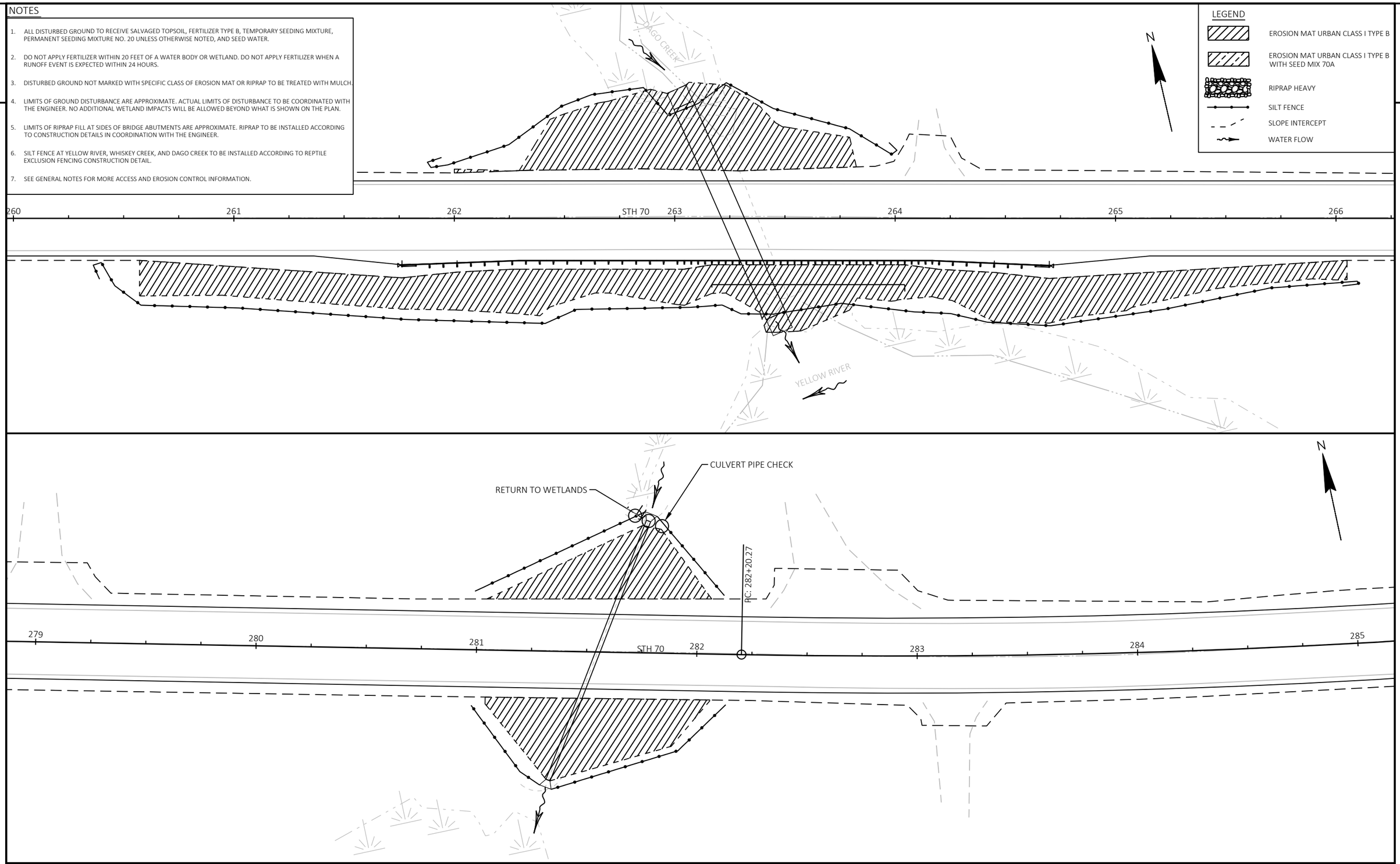
2

NOTES

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7. SEE GENERAL NOTES FOR MORE ACCESS AND EROSION CONTROL INFORMATION.

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B WITH SEED MIX 70A
- RIPRAP HEAVY
- SILT FENCE
- SLOPE INTERCEPT
- WATER FLOW



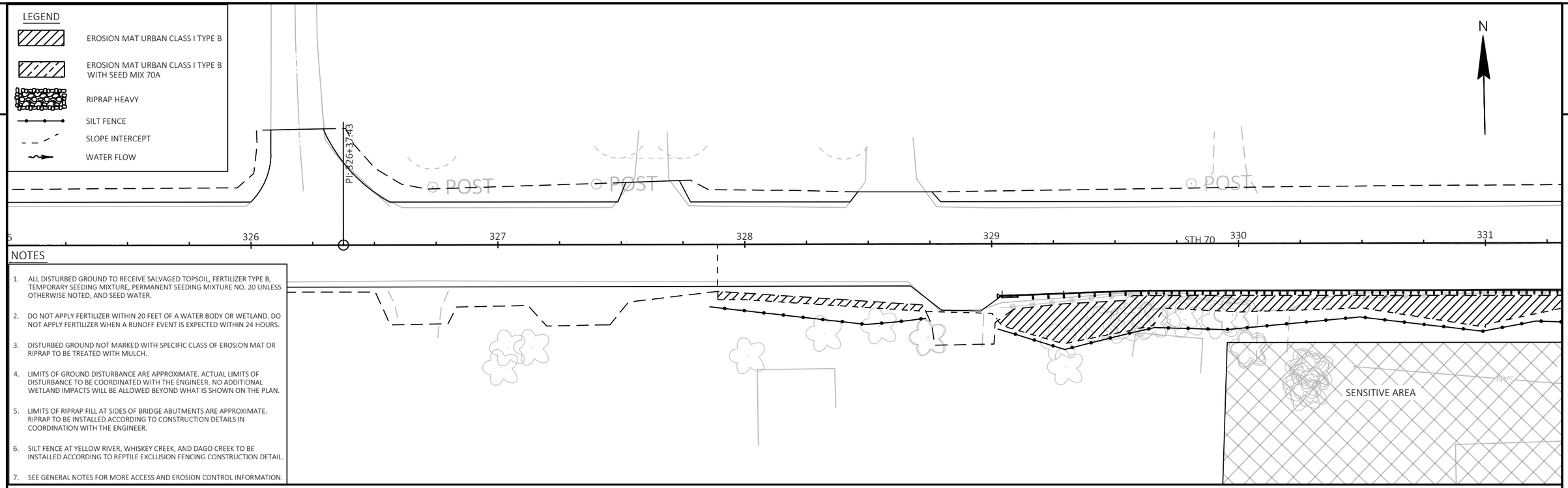
2

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	EROSION CONTROL	SHEET 15	E

2

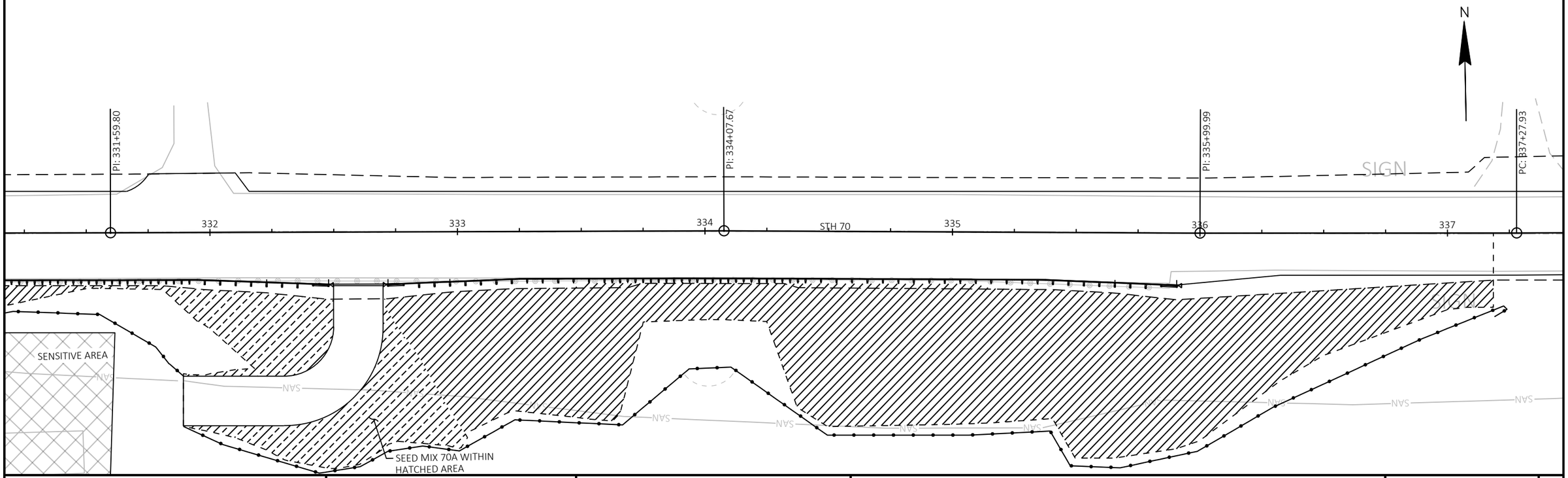
LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B WITH SEED MIX 70A
- RIPRAP HEAVY
- SILT FENCE
- SLOPE INTERCEPT
- WATER FLOW

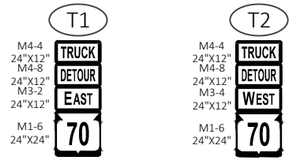


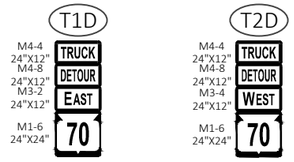
NOTES

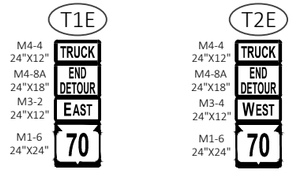
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7. SEE GENERAL NOTES FOR MORE ACCESS AND EROSION CONTROL INFORMATION.



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	EROSION CONTROL	SHEET 16	E

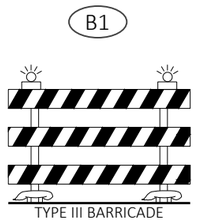








TYPE III BARRICADE



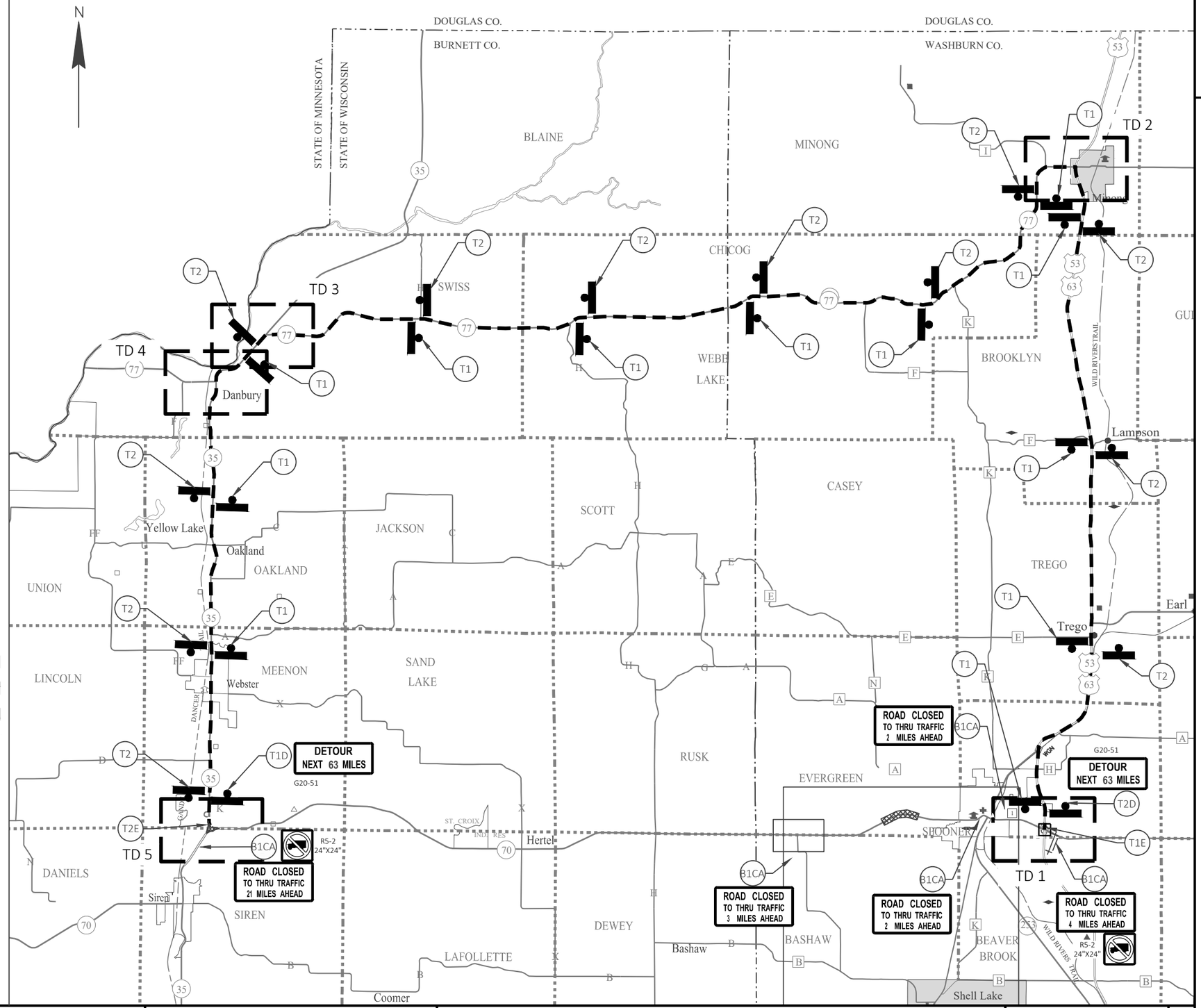
TYPE III BARRICADE



TYPE III BARRICADE

DETOUR PLAN LEGEND

- SIGN ON PERMANENT SUPPORT (PROPOSED/EXISTING)
- TYPE III BARRICADE (WITH/WITHOUT SIGN)
- DETOUR ROUTE
- WORK SPACE
- TRAFFIC CONTROL COVERING SIGNS TYPE I, OR TYPE II



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TRUCK DETOUR OVERVIEW	SHEET 17	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - Truck Detour

PLOT DATE : 10/21/2026 4:18 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : Custom

TD 1

N

SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR MORE INFORMATION.

ALL SIGNS ARE 48"X48"
UNLESS OTHERWISE NOTED.

D2L
TRUCK
DETOUR
WEST
70
M4-4 24"X12"
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

D2AL
TRUCK
DETOUR
WEST
70
M4-4 24"X12"
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO5-1L 21"X21"

D2
TRUCK
DETOUR
WEST
70
M4-4 36"X18"
M4-8 36"X18"
M3-4 36"X18"
M1-6 36"X36"

D2R
TRUCK
DETOUR
WEST
70
M4-4 24"X12"
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

D2AR
TRUCK
DETOUR
WEST
70
M4-4 24"X12"
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
M5-1R 21"X21"

D2AL
TRUCK
DETOUR
WEST
70
M4-4 24"X12"
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO5-1L 21"X21"

D2L
TRUCK
DETOUR
WEST
70
M4-4 24"X12"
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

D10
TRUCK
END DETOUR
EAST
70
M4-4 24"X12"
M4-8A 24"X18"
M3-2 24"X12"
M1-6 24"X24"

D9
TRUCK
WEST
70
M4-4 36"X18"
M3-4 36"X18"
M1-6 36"X36"

D2A
TRUCK
DETOUR
WEST
70
M4-4 36"X18"
M4-8 36"X18"
M3-4 36"X18"
M1-6 36"X36"
MO6-1 30"X30"

DETOUR AHEAD
W20-2A

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TRUCK DETOUR PLANS - TD1	SHEET 18	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - TD1
PLOT DATE : 10/21/2026 4:18 PM
PLOT BY : HAUSER, STEPHEN R
PLOT NAME :
PLOT SCALE : 1 IN:1000 FT

TD 2

2

N

D2AR
M4-4 36"X18"
M4-8 36"X18"
M3-4 36"X18"
M1-6 36"X36"
M5-1R 21"X21"
TRUCK DETOUR WEST 70
EAST WEST 77 77

D2A
M4-4 36"X18"
M4-8 36"X18"
M3-4 36"X18"
M1-6 36"X36"
MO6-1 30"X30"
TRUCK DETOUR WEST 70

D2A
M4-4 24"X12"
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"
TRUCK DETOUR WEST 70
WEST 77

D2R
M4-4 36"X18"
M4-8 36"X18"
M3-4 36"X18"
M1-6 36"X36"
MO6-1 30"X30"
TRUCK DETOUR WEST 70
WEST EAST 77 77

77

77

D1R
M4-4 24"X12"
M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"
MO6-1 21"X21"
TRUCK DETOUR EAST 70

D2L
M4-4 36"X18"
M4-8 36"X18"
M3-4 36"X18"
M1-6 36"X36"
MO6-1 30"X30"
TRUCK DETOUR WEST 70
WEST 77

D2L
M4-4 36"X18"
M4-8 36"X18"
M3-4 36"X18"
M1-6 24"X24"
MO6-1 30"X30"
TRUCK DETOUR WEST 70
WEST EAST 77 77

D1A
M4-4 36"X18"
M4-8 36"X18"
M3-2 24"X12"
M1-6 36"X36"
MO6-1 30"X30"
TRUCK DETOUR EAST 70
NORTH WEST SOUTH 53 77 53

53

D2AL
M4-4 36"X18"
M4-8 36"X18"
M3-4 36"X18"
M1-6 36"X36"
MO5-1L 21"X21"
TRUCK DETOUR WEST 70
WEST EAST 77 77

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TRUCK DETOUR PLANS - TD2	SHEET 19	E

TD 3

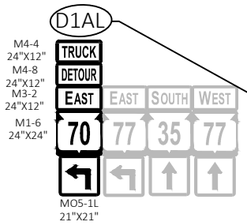
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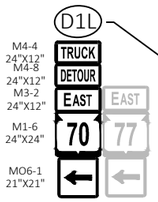
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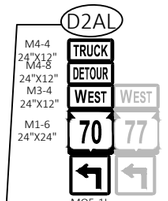
STATE OF MINNESOTA

ST. CROIX R.

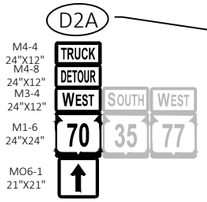
STATE OF WISCONSIN

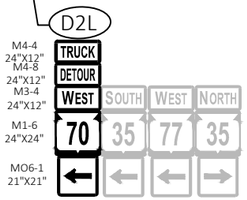


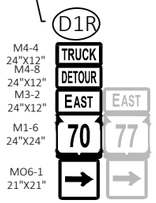




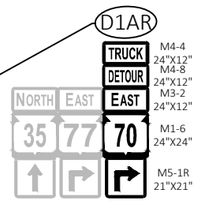
77







35



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TRUCK DETOUR PLANS - TD3	SHEET 20	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - TD3

PLOT DATE : 10/21/2026 4:18 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:500 FT

TD 4

2

2

OAK ST

1ST AVE N

1ST AVE S

3RD AVE S

PINE ST

CENTER ST

PEET ST

77

35

YELLOW R.

YELLOW R.

N

D2A

M4-4 24"X12"
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

TRUCK
DETOUR
WEST
70

SOUTH 35
WEST 77

D2A

M4-4 24"X12"
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

TRUCK
DETOUR
WEST
70

WEST 77

D1L

M4-4 24"X12"
M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

TRUCK
DETOUR
EAST
70

NORTH 35
EAST 77
SOUTH 35

D1A

M4-4 24"X12"
M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

TRUCK
DETOUR
EAST
70

WEST 77

D1A

M4-4 24"X12"
M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

TRUCK
DETOUR
EAST
70

WEST 77
NORTH 35
EAST 77

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TRUCK DETOUR PLANS - TD4	SHEET 21	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - TD4

PLOT DATE : 10/21/2026 4:18 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:500 FT

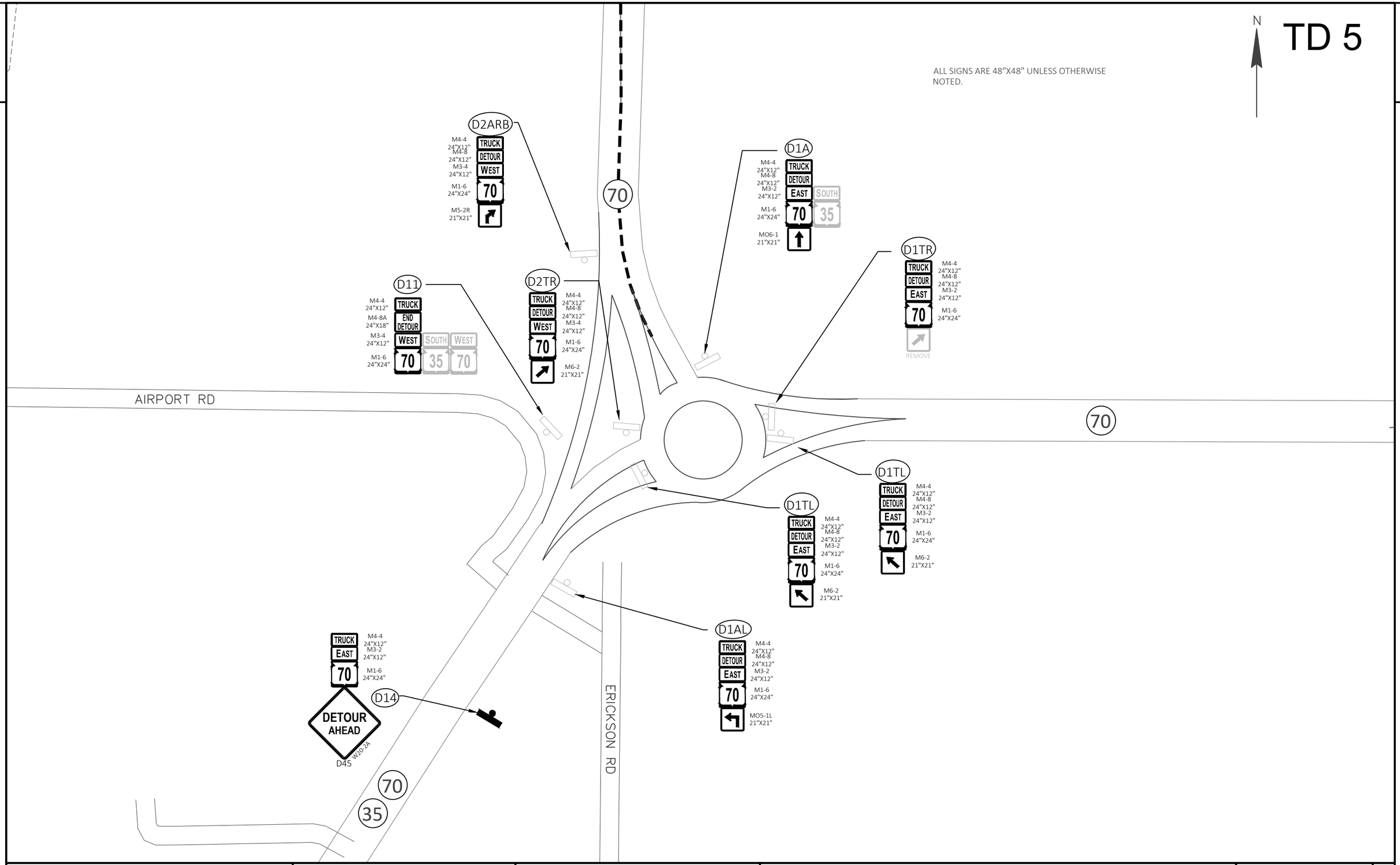
WISDOT/CADDS SHEET 42

TD 5

2

N

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	TRUCK DETOUR PLANS - TD5	SHEET 22	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - TD5
PLOT DATE : 10/21/2026 4:18 PM
PLOT BY : HAUSER, STEPHEN R
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2

D1

M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"



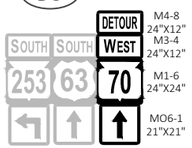
D2

M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"



D3

M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"



D1D

M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"



D2D

M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"



D1E

M4-8A 24"X18"
M3-2 24"X12"
M1-6 24"X24"

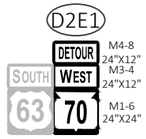


D2E

M4-8A 24"X18"
M3-4 24"X12"
M1-6 24"X24"

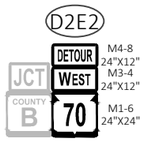


D2E1



M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"

D2E2



M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"

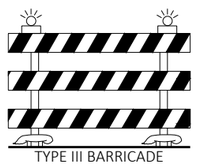
B1RC

R11-2 48"X30"



TYPE III BARRICADE

B1



TYPE III BARRICADE

B1CA

R11-3 60"X30"

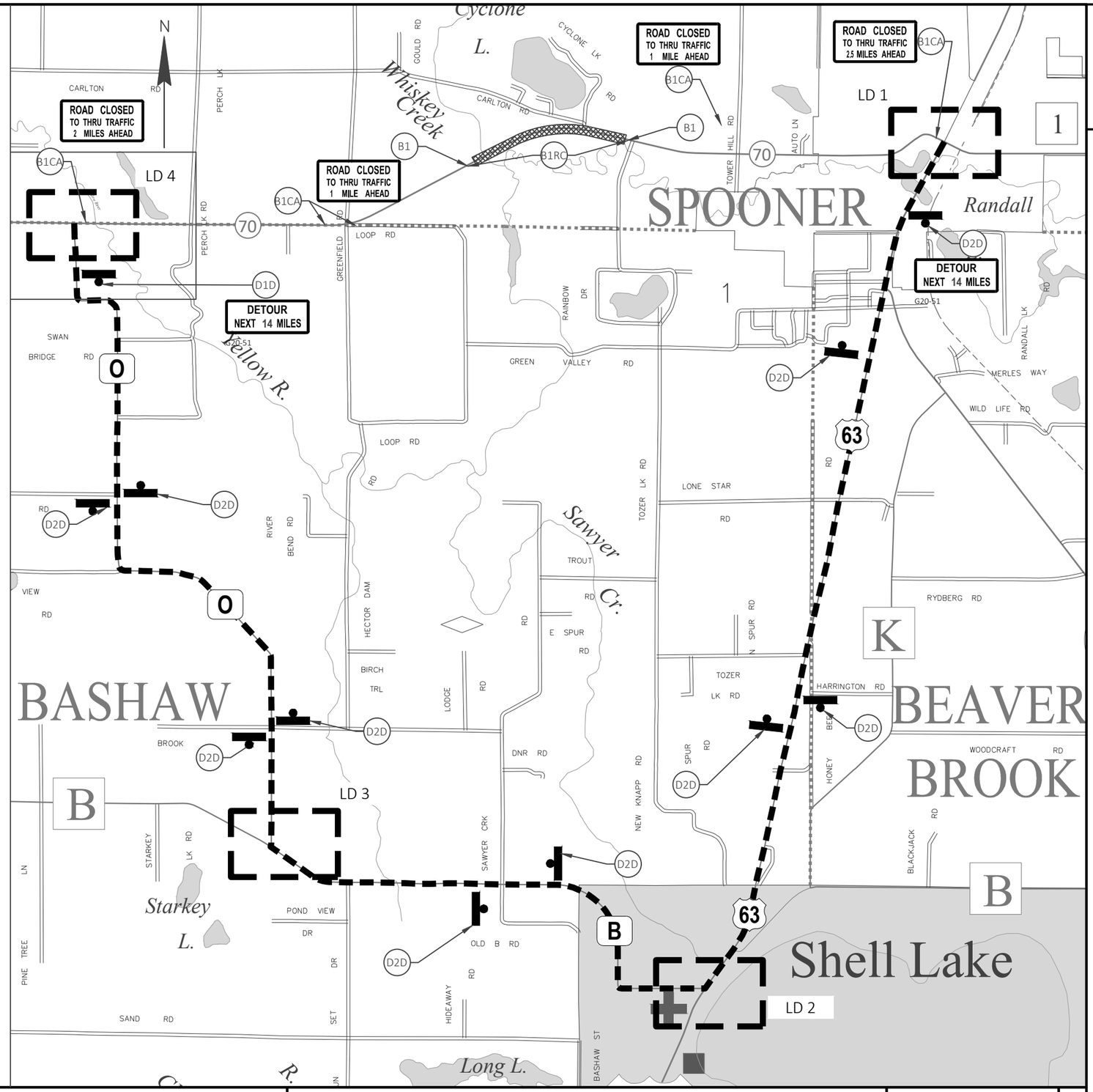


TYPE III BARRICADE

DETOUR PLAN LEGEND

- SIGN ON PERMANENT SUPPORT (PROPOSED/EXISTING)
- TYPE III BARRICADE (WITH/WITHOUT SIGN)
- DETOUR ROUTE
- WORK SPACE
- TRAFFIC CONTROL COVERING SIGNS TYPE I, OR TYPE II

NOTE:
COVER ANY SIGN INDICATING OPPOSITE OF THE DETOUR



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	LOCAL DETOUR OVERVIEW	SHEET 23	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - Local Detour

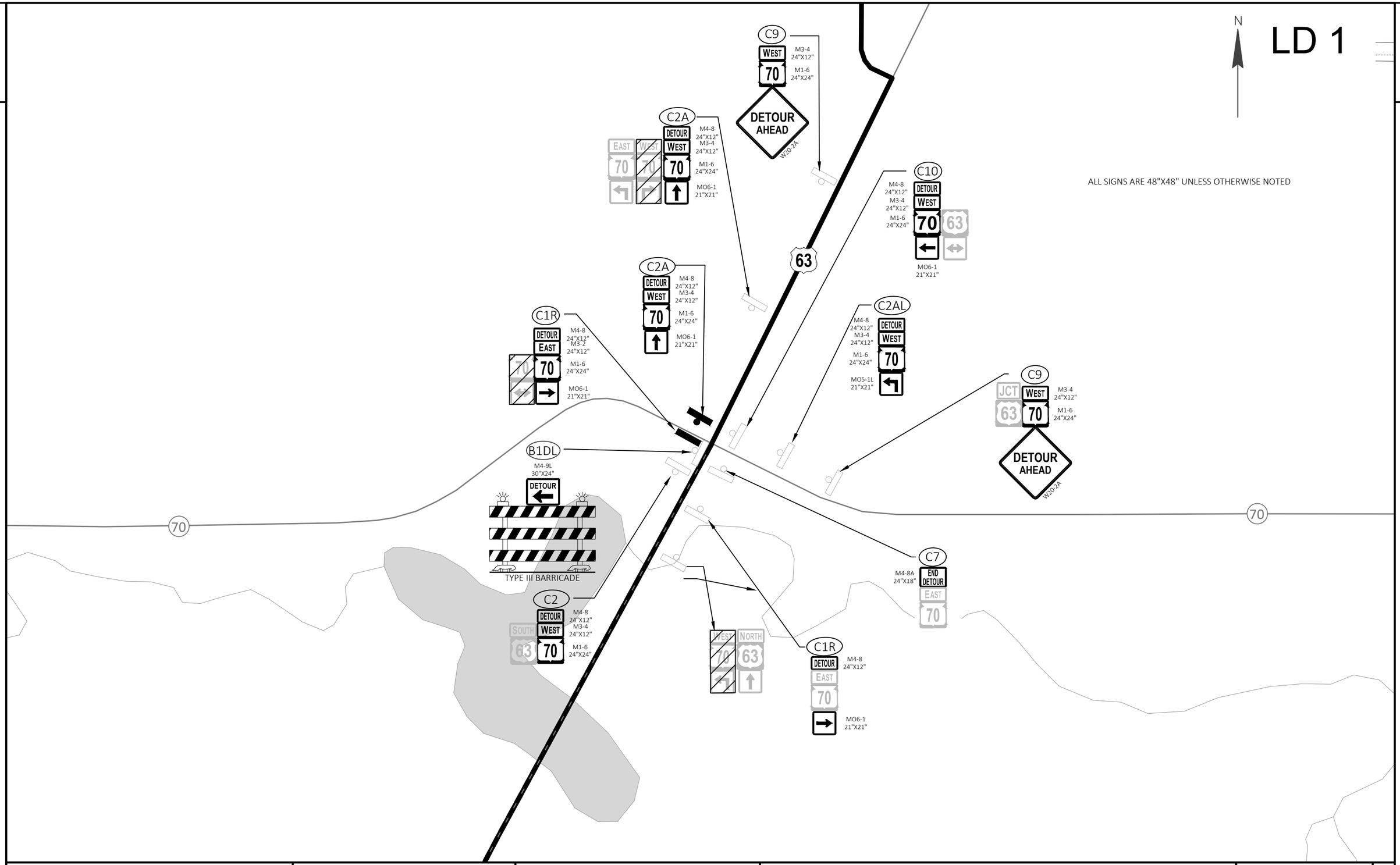
PLOT DATE : 10/21/2026 4:18 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 42

N

LD 1

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	LOCAL DETOUR PLANS - LD1	SHEET 24	E

2

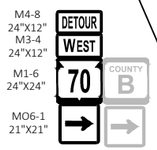
2

N

LD 2

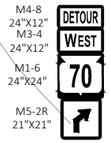
C2R

M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"



C2ARB

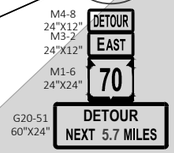
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
M5-2R 21"X21"



63

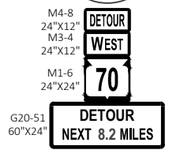
D1D

M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"
G20-51 60"X24"



D2D

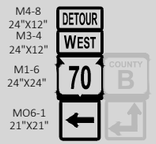
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
G20-51 60"X24"



B

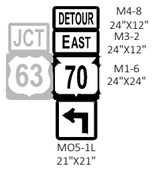
C2L

M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"



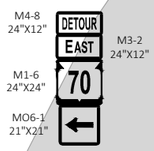
C1AL

M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"
MO5-1L 21"X21"



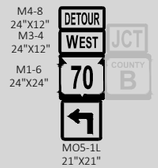
C2L

M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"
MO6-1 21"X21"



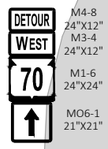
C2AL

M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO5-1L 21"X21"



C2A

M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
MO6-1 21"X21"



SHELL LAKE

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	LOCAL DETOUR PLANS - LD2	SHEET 25	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - CD2

PLOT DATE : 10/21/2026 4:18 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

LD 3

2

N

C1AL

JCT COUNTY B
DETOUR EAST 70
M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"
MO5-1L 21"X21"

C1L

DETOUR EAST 70
M4-8 24"X12"
M3-2 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

O

D2D

M4-8 24"X12"
DETOUR WEST 70
M3-4 24"X12"
M1-6 24"X24"
G20-51 60"X24"
DETOUR NEXT 4.9 MILES

C2R

M4-8 24"X12"
DETOUR WEST 70
M3-4 24"X12"
M1-6 24"X24"
COUNTY O
MO6-1 21"X21"

C2ARB

JCT COUNTY O
DETOUR WEST 70
M4-8 24"X12"
M3-4 24"X12"
M1-6 24"X24"
M5-2R 21"X21"

D1D

M4-8 24"X12"
DETOUR EAST 70
M3-2 24"X12"
M1-6 24"X24"
G20-51 60"X24"
DETOUR NEXT 9 MILES

B

STARKEY LAKE

SUNSET DR

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	LOCAL DETOUR PLANS - LD3	SHEET 26	E

LD 4

N

YELLOW RIVER DR

PLAINVIEW RD

MISTY MEADOW DR

Yellow River

B1DR

DETOUR
M4-9R
30"X24"

ROAD CLOSED
TO
THRU TRAFFIC
R11-4
60"X30"

TYPE III BARRICADE

70

C1ARB

M4-8
24"X12"
M3-2
24"X12"

DETOUR
EAST
70

M1-6
24"X24"

M5-2R
21"X21"

JCT
COUNTY
O

C1R

DETOUR
EAST
70

M4-8
24"X12"
M3-2
24"X12"

M1-6
24"X24"

MO6-1
21"X21"

COUNTY
O

C16

M4-8A
24"X18"

END
DETOUR

M3-4
24"X12"

WEST
70

M1-6
24"X24"

O

Estimate Of Quantities

8050-00-70

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	4.000	4.000
0004	201.0205	Grubbing	STA	4.000	4.000
0006	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0008	203.0220	Removing Structure (structure) 01. STA 215+10 "Culvert Pipe Corrugated Steel"	EACH	1.000	1.000
0010	203.0220	Removing Structure (structure) 02. STA 263+38 "Culvert Pipe Corrugated Steel"	EACH	1.000	1.000
0012	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,370.000	2,370.000
0014	205.0100	Excavation Common	CY	1,889.000	1,889.000
0016	206.5001	Cofferdams (structure) 01. Whiskey Creek	EACH	1.000	1.000
0018	206.5001	Cofferdams (structure) 02. Dago Creek	EACH	1.000	1.000
0020	208.0100	Borrow	CY	2,899.000	2,899.000
0022	211.0700.S	Prepare Foundation for CIR Base Layer (project) 01. 8050-00-70	EACH	1.000	1.000
0024	211.0800.S	Base Repair for CIR Layer	CY	500.000	500.000
0026	213.0100	Finishing Roadway (project) 01. 8050-00-70	EACH	1.000	1.000
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,500.000	5,500.000
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,320.000	1,320.000
0032	305.0500	Shaping Shoulders	STA	670.000	670.000
0034	327.1000.S	CIR Asphaltic Base Layer	SY	126,400.000	126,400.000
0036	450.4000	HMA Cold Weather Paving	TON	764.000	764.000
0038	455.0605	Tack Coat	GAL	17,818.000	17,818.000
0040	455.0770.S	Asphalt Stabilizing Agent	TON	320.000	320.000
0042	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0044	460.6245	HMA Pavement 5 MT 58-34 S	TON	19,620.000	19,620.000
0046	460.9000.S	Material Transfer Vehicle	EACH	1.000	1.000
0048	465.0105	Asphaltic Surface	TON	1,147.000	1,147.000
0050	465.0110	Asphaltic Surface Patching	TON	200.000	200.000
0052	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	23.000	23.000
0054	465.0520	Asphaltic Rumble Strips, Shoulder	LF	60,700.000	60,700.000
0056	465.0560	Asphaltic Rumble Strips, Centerline	LF	27,900.000	27,900.000
0058	520.1030	Apron Endwalls for Culvert Pipe 30-Inch	EACH	4.000	4.000
0060	520.2072	Culvert Pipe Temporary 72-Inch	LF	188.000	188.000
0062	520.3430	Culvert Pipe Class III-A Non-metal 30-Inch	LF	196.000	196.000
0064	520.8700	Cleaning Culvert Pipes	EACH	8.000	8.000
0066	520.9700.S	Culvert Pipe Liners (size) 01. 30-Inch	LF	94.000	94.000
0068	520.9700.S	Culvert Pipe Liners (size) 02. 24-Inch	LF	70.000	70.000
0070	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	2.000	2.000
0072	522.2368	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 68x106-Inch	LF	200.000	200.000
0074	522.2668	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 68x106-Inch	EACH	4.000	4.000
0076	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	118.000	118.000
0078	602.3010	Concrete Surface Drains	CY	6.000	6.000
0080	606.0100	Riprap Light	CY	8.000	8.000
0082	606.0200	Riprap Medium	CY	14.000	14.000
0084	606.0300	Riprap Heavy	CY	25.000	25.000
0086	614.0010	Barrier System Grading Shaping Finishing	EACH	4.000	4.000
0088	614.0920	Salvaged Rail	LF	1,002.000	1,002.000
0090	614.2300	MGS Guardrail 3	LF	350.000	350.000
0092	614.2330	MGS Guardrail 3 K	LF	425.000	425.000
0094	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0096	614.2610	MGS Guardrail Terminal EAT	EACH	10.000	10.000
0098	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8050-00-70	EACH	1.000	1.000

8050-00-70

Line	Item	Item Description	Unit	Total	Qty
0100	619.1000	Mobilization	EACH	1.000	1.000
0102	625.0500	Salvaged Topsoil	SY	7,660.000	7,660.000
0104	627.0200	Mulching	SY	200.000	200.000
0106	628.1504	Silt Fence	LF	4,184.000	4,184.000
0108	628.1520	Silt Fence Maintenance	LF	4,184.000	4,184.000
0110	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0112	628.1910	Mobilizations Emergency Erosion Control	EACH	7.000	7.000
0114	628.2008	Erosion Mat Urban Class I Type B	SY	6,330.000	6,330.000
0116	628.7504	Temporary Ditch Checks	LF	50.000	50.000
0118	628.7555	Culvert Pipe Checks	EACH	28.000	28.000
0120	629.0210	Fertilizer Type B	CWT	6.000	6.000
0122	630.0120	Seeding Mixture No. 20	LB	269.000	269.000
0124	630.0171	Seeding Mixture No. 70A	LB	3.000	3.000
0126	630.0200	Seeding Temporary	LB	189.000	189.000
0128	630.0500	Seed Water	MGAL	147.000	147.000
0130	633.5200	Markers Culvert End	EACH	30.000	30.000
0132	634.0612	Posts Wood 4x6-Inch x 12-FT	EACH	4.000	4.000
0134	638.2102	Moving Signs Type II	EACH	4.000	4.000
0136	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0138	642.5001	Field Office Type B	EACH	1.000	1.000
0140	643.0300	Traffic Control Drums	DAY	3,879.000	3,879.000
0142	643.0420	Traffic Control Barricades Type III	DAY	2,108.000	2,108.000
0144	643.0705	Traffic Control Warning Lights Type A	DAY	4,216.000	4,216.000
0146	643.0900	Traffic Control Signs	DAY	18,567.000	18,567.000
0148	643.0920	Traffic Control Covering Signs Type II	EACH	8.000	8.000
0150	643.1000	Traffic Control Signs Fixed Message	SF	260.000	260.000
0152	643.1050	Traffic Control Signs PCMS	DAY	98.000	98.000
0154	643.3165	Temporary Marking Line Paint 6-Inch	LF	71,230.000	71,230.000
0156	643.5000	Traffic Control	EACH	1.000	1.000
0158	645.0120	Geotextile Type HR	SY	55.000	55.000
0160	645.0130	Geotextile Type R	SY	4.000	4.000
0162	645.0135	Geotextile Type SR	SY	12.000	12.000
0164	646.2020	Marking Line Epoxy 6-Inch	LF	158,100.000	158,100.000
0166	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	90,500.000	90,500.000
0168	650.4500	Construction Staking Subgrade	LF	108.000	108.000
0170	650.5000	Construction Staking Base	LF	108.000	108.000
0172	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	117.000	117.000
0174	650.6000	Construction Staking Pipe Culverts	EACH	4.000	4.000
0176	650.8000	Construction Staking Resurfacing Reference	LF	33,444.000	33,444.000
0178	650.9911	Construction Staking Supplemental Control (project) 01. 8050-00-70	EACH	1.000	1.000
0180	650.9920	Construction Staking Slope Stakes	LF	1,965.000	1,965.000
0182	690.0150	Sawing Asphalt	LF	240.000	240.000
0184	740.0440	Incentive IRI Ride	DOL	25,336.000	25,336.000
0186	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	800.000	800.000
0188	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	600.000
0190	SPV.0055	Special 01. Incentive Density PWL HMA Pavement	DOL	13,800.000	13,800.000
0192	SPV.0055	Special 02. Incentive Air Voids HMA Pavement	DOL	19,620.000	19,620.000
0194	SPV.0055	Special 03. Incentive Density HMA Pavement Longitudinal Joints	DOL	13,380.000	13,380.000
0196	SPV.0060	Special 01. Temporary Diversion Channel, Whiskey Creek	EACH	1.000	1.000

8050-00-70

Line	Item	Item Description	Unit	Total	Qty
0198	SPV.0060	Special 02. Temporary Diversion Channel, Dago Creek	EACH	1.000	1.000
0200	SPV.0090	Special 01. Ditch Cleaning	LF	400.000	400.000

201 Clearing Grubbing

CATEGORY	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
0010	262+00	-	264+00	LT	2	2
0010	329+00	-	331+00	RT	2	2
				TOTAL 0010	4	4

203 Removing Culverts

CATEGORY	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	203.0220.01 REMOVING STRUCTURE (STRUCTURE) (01. STA 215+10 "CULVERT PIPE CORRUGATED STEEL") EACH	203.0220.02 REMOVING STRUCTURE (STRUCTURE) (02. STA 263+38 "CULVERT PIPE CORRUGATED STEEL") EACH
0010	214+92	LT/RT		1	
0010	227+95	LT/RT	1		
0010	263+30	LT/RT			1
0010	281+54	LT/RT	1		
		TOTAL 0010	2	1	1

204 Butt Joints

CATEGORY	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	REMARKS
0010	6+25	-	7+25	START	340	
0010	75+55	-	76+55	WEST BRIDGE	340	
0010	77+45	-	78+45	EAST BRIDGE	340	
0010	341+60	-	342+60	END	340	
0010	6+25	-	342+10	SIDEROADS	670	FOR LOCATIONS SEE PLANS
0010	6+25	-	342+10	STH 70	340	PAVED DRIVEWAYS
				TOTAL 0010	2,370	

211 Base Repair

CATEGORY	LOCATION	211.0800.S BASE REPAIR FOR CIR LAYER CY	REMARKS
0010	MAINLINE	500	UNDISTRIBUTED
	TOTAL 0010	500	

206 COFFER DAM

CATEGORY	STATION	LOCATION	206.5001.01 COFFERDAMS (STRUCTURE) (01. WHISKEY CREEK) EACH	206.5001.02 COFFERDAMS (STRUCTURE) (02. DAGO CREEK) EACH	SPV.0060.01 SPECIAL (01. TEMPORARY DIVERSION CHANNEL, WHISKEY CREEK) EACH	SPV.0060.02 SPECIAL (02. TEMPORARY DIVERSION CHANNEL, DAGO CREEK) EACH
0010	215+10	LT/RT	1		1	
0010	263+38	LT/RT		1		1
		TOTAL 0010	1	1	1	1

DIVISION	FROM/TO STATION	LOCATION	* 205.0100 EXCAVATION COMMON (1) CUT (2)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.15	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
DIVISION 1										
WHISKEY_CREEK	214+50.46/215+74.97		44	44	296	340	-296	0	296	
227+95	227+42.00/228+49.00		47	47	19	22	25	25	0	
DAGO_CREEK	260+57.36/266+05.04		139	139	591	680	-541	0	516	USE WASTE
281+55	281+01.00/282+07.00		50	50	0	0	50	50	0	
DRIVEWAY_BG	327+89.03/337+18.54		84	84	1,931	2,221	-2,137	0	2,087	USE WASTE
DIVISION 1 SUBTOTAL			364	364	2,837	3,263	-2,899	0	2,899	
GRAND TOTAL			364	364	2,837	3,263	-2,899	0	2,899	*ITEM SHOWN ELSEWHERE IN PLANS

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.
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(13) EXPANDED FILL FACTOR = 1.15

DEPENDING ON SELECTIONS: EXPANDED FILL = UNEXPANDED FILL * 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.

305 Base AGG

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0500 SHAPING SHOULDERS STA	REMARKS
0010		-		CTH O/CTH B	130			BASE AGGREGATE TO BE ADDED ON SHOULDERS, ALONG LOCAL DETOUR AFTER DETOUR AS NEEDED
0010		-		STH 70	130			DRIVEWAYS (72)
0010	332+60	-		STH 70	90			NEW DRIVEWAY
0010	214+50	-	215+75	STH 70		360		WHISKEY EXTENTS OF EXCAVATION
0010	227+42	-	228+49	STH 70		310		SMALL CULVERT EXTENTS OF EXCAVATION
0010	262+70	-	263+91	STH 70		350		DAGO EXTENTS OF EXCAVATION
0010	281+01	-	282+07	STH 70		300		SMALL CULVERT EXTENTS OF EXCAVATION
0010	6+25	-	342+10	STH 70	5,150		670	MAINLINE
				TOTAL 0010	5,500	1,320	670	

460 Pavement

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	327.1000.S CIR ASPHALTIC BASE LAYER SY	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	455.0770.S ASPHALT STABILIZING AGENT TON	460.6245 HMA PAVEMENT 5 MT 58-34 S TON	REMARKS
0010	6+25	-	342+10	MAINLINE		89,200	764	12,500	320	13,800	MAINLINE NO SHOULDER
0010	6+25	-	342+10	LT/RT		37,200					CIR SHOULDER
0010	6+25	-	342+10	LT/RT				3,200		3,500	SHOULDER 3' / GUARDRAIL
0010		-						18		20	SIDEROADS
				TOTAL 0010	0	126,400	764	15,718	320	17,320	
0020	6+25	-	342+10	LT/RT	670			2,100		2,300	SHOULDER 2'
				TOTAL 0020	670	0	0	2,100	0	2,300	
				PROJECT TOTAL	670	126400	764	17818	320	19620	

465 Minor ASPH

CATEGORY	STATION	TO	STATION	LOCATION	465.0105 ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	REMARKS
0010		-			500	150		MISC REPAIRS
0010		-		CTH O/CTH B		50		LOCAL DETOUR MISC REPAIRS
0010		-					23	DRIVEWAYS
0010	214+38	-	215+59	MAINLINE	172			CULVERT REPLACEMENT
0010	227+42	-	228+49	MAINLINE	152			CULVERT REPLACEMENT
0010	262+70	-	263+91	MAINLINE	172			CULVERT REPLACEMENT
0010	281+01	-	282+07	MAINLINE	151			CULVERT REPLACEMENT
				TOTAL 0010	1,147	200	23	

601 CONCRETE

CATEGORY	STATION	TO	STATION	LOCATION	601.0588 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT LF	602.3010 CONCRETE SURFACE DRAINS CY
0010	75+67	-	76+26	LT	59	
0010	75+67	-	76+26	RT	59	
0010	75+84	-		LT		3
0010	75+84	-		RT		3
				TOTAL 0010	118	6

HMA ACCEPTANCE TABLE

LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO BE USED FOR: MIXTURE ACCEPTANCE	QUALITY MANAGEMENT PROGRAM TO BE USED FOR: DENSITY ACCEPTANCE
12 FOOT DRIVING LANES	6+25 - 342+10	UPPER LAYER	HMA 5MT 58-34 S	HMA 5MT 58-34 S	7423	1.5"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02. CORE ONLY	PWL INCENTIVE DENSITY HMA PAVEMENT SPV.0055.01. CORE ONLY
12 FOOT DRIVING LANES	6+25 - 342+10	LOWER LAYER	CIR BASE	HMA 5MT 58-34 S	6186	1.25"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02. CORE ONLY	PWL INCENTIVE DENSITY HMA PAVEMENT SPV.0055.01. CORE ONLY
SHOULDERS	VARIOUS	UPPER LAYER	HMA 5MT 58-34 S	HMA 5MT 58-34 S	3300	1.5"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02. CORE ONLY	ACCEPTED BY DEPARTMENT TESTING, NOT ELIGIBLE FOR INCENTIVE. CORE ONLY
SHOULDERS	VARIOUS	LOWER LAYER	CIR BASE	HMA 5MT 58-34 S	2700	1.25"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02. CORE ONLY	ACCEPTED BY DEPARTMENT TESTING, NOT ELIGIBLE FOR INCENTIVE. CORE ONLY
BEAMGUARD WIDENINGS	VARIOUS	UPPER LAYER	HMA 5MT 58-34 S	HMA 5MT 58-34 S	3813	1.5"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02. CORE ONLY	ACCEPTED BY DEPARTMENT TESTING, NOT ELIGIBLE FOR INCENTIVE. CORE ONLY
BEAMGUARD WIDENINGS	VARIOUS	LOWER LAYER	CIR BASE	HMA 5MT 58-34 S	2709	1.25"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02. CORE ONLY	ACCEPTED BY DEPARTMENT TESTING, NOT ELIGIBLE FOR INCENTIVE. CORE ONLY
SIDEROADS	VARIOUS	UPPER LAYER	HMA 5MT 58-34 S	HMA 5MT 58-34 S	11	1.5"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02. CORE ONLY	ACCEPTED BY DEPARTMENT TESTING, NOT ELIGIBLE FOR INCENTIVE. CORE ONLY
SIDEROADS	VARIOUS	LOWER LAYER	EXISTING ASPHALTIC BASE	HMA 5MT 58-34 S	9	1.25"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02. CORE ONLY	ACCEPTED BY DEPARTMENT TESTING, NOT ELIGIBLE FOR INCENTIVE. CORE ONLY
CULVERT REPLACEMENTS	VARIOUS	ALL LAYERS	MILLED EXISTING HMA SURFACE OR BASE	ASPHALTIC SURFACE	1073	6.0"	QMP as per SS 465.	ACCEPTED BY ORDINARY COMPACTION
MISC REPAIRS/PATCHING	VARIOUS	LOWER LAYER	VARIOUS	ASPHALTIC SURFACE PATCHING	200	VARIES	QMP as per SS 465.	ACCEPTED BY ORDINARY COMPACTION
DRIVEWAYS	VARIOUS	UPPER LAYER	MILLED SURFACE	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	23	2.75"	QMP as per SS 465.	ACCEPTED BY ORDINARY COMPACTION

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465 Rumble

CATEGORY	STATION	TO	STATION	LOCATION	465.0520 ASPHALTIC RUMBLE STRIPS, SHOULDER LF	465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE LF	REMARKS
0010	6+25	-	342+10	CL		27,900	
				TOTAL 0010	0	27,900	
0020	6+25	-	342+10	RT	30,100		
0020	6+25	-	342+10	LT	30,600		
				TOTAL 0020	60,700	0	
				PROJECT TOTAL	60,700	27,900	

520 Cleaning Culverts

CATEGORY	STATION	LOCATION	520.8700 CLEANING CULVERT PIPES EACH
0010	24+44	LT/RT	1
0010	62+06	LT/RT	1
0010	102+33	LT/RT	1
0010	118+58	LT/RT	1
0010	148+61	LT/RT	1
0010	160+08	LT/RT	1
0010	271+77	LT/RT	1
0010	334+04	LT/RT	1
		TOTAL 0010	8

520 Culverts

CATEGORY	STATION	LOCATION	205.0100* EXCAVATION COMMON CY	520.1030 APRON ENDWALLS FOR CULVERT PIPE 30-INCH EACH	520.2072 CULVERT PIPE TEMPORARY 72-INCH LF	520.3430 CULVERT PIPE CLASS III-A NON-METAL 30-INCH LF	520.9700.S.01 CULVERT PIPE LINERS (SIZE) (01. 30-INCH) LF	520.9700.S.02 CULVERT PIPE LINERS (SIZE) (02. 24-INCH) LF	520.9750.S CLEANING CULVERT PIPES FOR LINER VERIFICATION EACH	522.2368 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 68X106-INCH LF	522.2668 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 68X106-INCH EACH	SPV.0090.01 SPECIAL (01. DITCH CLEANING) LF	REMARKS
0010	131+57	LT/RT					94		1			200	
0010	214+98	LT/RT	400		100					96	2		WHISKEY CREEK
0010	227+95	LT/RT	352	2		70							SMALL PIPE
0010	263+30	LT/RT	389		88					104	2		DAGO CREEK
0010	281+54	LT/RT	384	2		126							SMALL PIPE
0010	315+24	LT/RT						70	1			200	
		TOTAL 0010	1,525	4	188	196	94	70	2	200	4	400	

*ITEM SHOWN ELSEWHERE IN PLANS

614 SALVAGED RAIL

CATEGORY	STATION	TO	STATION	LOCATION	614.0920 SALVAGED RAIL LF	REMARKS
0010	75+55	-	76+27	LT	72	YELLOW RIVER BRIDGE
0010	75+60	-	76+26	RT	70	YELLOW RIVER BRIDGE
0010	77+20	-	78+42	LT	130	YELLOW RIVER BRIDGE
0010	77+20	-	77+93	RT	80	YELLOW RIVER BRIDGE
0010	327+67	-	334+54	RT	650	
				TOTAL 0010	1,002	

606 RipRap

CATEGORY	STATION	LOCATION	606.0100 RIPRAP LIGHT CY	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY	645.0130 GEOTEXTILE TYPE R SY	645.0135 GEOTEXTILE TYPE SR SY	REMARKS
0010	62+06	LT		8		11			CULVERT
0010	75+84	LT		3			2		CONCRETE SURFACE DRAIN
0010	75+84	RT		3			2		CONCRETE SURFACE DRAIN
0010	76+25	LT	2		6	10		3	YELLOW RIVER
0010	76+25	RT	2		8	12		3	YELLOW RIVER
0010	77+27	LT	2		6	14		3	YELLOW RIVER
0010	77+27	RT	2		5	8		3	YELLOW RIVER
		TOTAL 0010	8	14	25	55	4	12	

614 Guardrail

CATEGORY	STATION	TO	STATION	LOCATION	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH	614.2300 MGS GUARDRAIL 3 LF	614.2330 MGS GUARDRAIL 3 K LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	REMARKS
0010	73+50	-	76+26	LT	1	25		39.4	1	YELLOW RIVER BRIDGE
0010	73+97	-	76+26	RT	1	37.5		39.4	1	YELLOW RIVER BRIDGE
0010	77+25	-	79+75	LT	1	37.5		39.4	1	YELLOW RIVER BRIDGE
0010	77+25	-	79+76	RT	1	37.5		39.4	1	YELLOW RIVER BRIDGE
0010	261+74	-	264+72	RT		75	112.5		2	DAGO CREEK
0010	329+02	-	332+50	RT			237.5		2	
0010	332+70	-	335+93	RT		138	75.0		2	
				TOTAL 0010	4	350	425	157.6	10	

FOR REFERENCE ONLY

	205.0100 EXCAVATION COMMON CY	208.0100 BORROW CY	625.0500 SALVAGED TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0110 SEEDING MIXTURE NO. 10 LB
BARRIER SYSTEM GRADING SHAPING FINISHING						
	-	2	367	367	0.30	10
	-	2	389	389	0.30	11
	-	6	230	230	0.20	6
	1	1	344	344	0.30	9
	1	11	1,330	1,330	1.1	36

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628 Erosion Control

CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7504 TEMPORARY DITCH CHECKS LF	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0171 SEEDING MIXTURE NO. 70A LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	REMARKS
0010		-				200	100	100	100	50	1	10	1	20	10	UNDISTRIBUTED
0010	73+50	-	76+26	LT			310	310								YELLOW RIVER BRIDGE
0010	73+97	-	76+26	RT			260	260								YELLOW RIVER BRIDGE
0010	77+25	-	79+75	LT			290	290								YELLOW RIVER BRIDGE
0010	77+25	-	79+76	RT			280	280								YELLOW RIVER BRIDGE
0010	214+20	-	216+03	LT	450		250	250	450		0.30	20		12	10	WHISKEY CREEK
0010	214+20	-	216+03	RT	610		260	260	610		0.40	28		17	14	WHISKEY CREEK
0010	227+17	-	228+78	LT	210		160	160	210		0.20	10		6	5	SMALL PIPE
0010	227+17	-	228+78	RT	190		150	150	190		0.20	9		6	4	SMALL PIPE
0010	260+56	-	266+06	RT	960		610	610	960		0.60	43		26	21	DAGO CREEK
0010	262+00	-	263+89	LT	460		260	260	460		0.30	21		13	10	DAGO CREEK
0010	280+84	-	282+28	LT	220		134	134	220		0.20	10		6	5	SMALL PIPE
0010	280+84		282+28	RT	270		140	140	270		0.20	13		8	6	SMALL PIPE
0010	327+89	-	337+19	RT	3,860		980	980	2,330		1.50	105		63	52	BEAM GUARD
0010	331+72	-	333+09	RT	430				530		0.30		2	12	10	NEW DRIVEWAY
				TOTAL 0010	7,660	200	4,184	4,184	6,330	50	6	269	3	189	147	

635 Markers Culvert

CATEGORY	STATION	LOCATION	633.5200 MARKERS CULVERT END EACH
0010	12+34	LT/RT	2
0010	24+44	LT/RT	2
0010	62+06	LT/RT	2
0010	102+33	LT/RT	2
0010	118+58	LT/RT	2
0010	131+57	LT/RT	2
0010	148+61	LT/RT	2
0010	160+08	LT/RT	2
0010	271+77	LT/RT	2
0010	315+24	LT/RT	2
0010	334+04	LT/RT	2
0010	215+10	LT/RT	2
0010	227+96	LT/RT	2
0010	263+38	LT/RT	2
0010	281+54	LT/RT	2
		TOTAL 0010	30

690 Sawing Asph

CATEGORY	STATION	LOCATION	690.0150 SAWING ASPHALT LF	REMARKS
0010	214+50		30	WHISKEY CREEK
0010	215+75		30	WHISKEY CREEK
0010	227+42		30	SMALL PIPE
0010	228+49		30	SMALL PIPE
0010	262+70		30	DAGO CREEK
0010	263+91		30	DAGO CREEK
0010	281+01		30	SMALL PIPE
0010	282+07		30	SMALL PIPE
		TOTAL 0010	240	

628 PIPE CHECKS

CATEGORY	STATION	LOCATION	628.7555 CULVERT PIPE CHECKS EACH	REMARKS
0010	102+34	LT	5	30" PIPE
0010	118+59	LT	5	30" PIPE
0010	148+62	LT	3	24" PIPE
0010	160+08	LT	5	30" PIPE
0010	227+98	LT	5	30" PIPE
0010	281+54	RT	5	30" PIPE
		TOTAL 0010	28	

643 Traffic

CATEGORY	STATION	TO	STATION	LOCATION	DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II SIGNS	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.5000 TRAFFIC CONTROL EACH	REMARKS
0010		-		PROJECT	96.00							10	960					98	1	
0010				LOCAL DETOUR	2.00							6	12	8	1	8				
0010		-		STH 70 CLOSURE	34.00			18	612	36	1,224									SEE TRUCK DETOUR SHEETS
0010				OSOW ROUTE EXTENTS													260			4 PERMITTED LOADS/NO ACCESS 120"X78"
0010		-		TRUCK DETOUR	34.00							316	10,744							SEE LOCAL DETOUR SHEETS
0010		-		LOCAL DETOUR	34.00							148	5,032							SIDE ROADS WITHIN PROJECT DETOUR
0010				SIDE ROAD CLOSURES	34.00			44	1,496	88	2,992	24	816							CIR, LIFTS, & GUARDRAIL WORK
0010				M/L FLAGGING OPERATIONS	28.00							35	980							MARKING OPERATIONS
0010				GUARDRAIL & C&G INSTALLATION	3.00	35.00	105													CIR AND PAVING OPERATIONS
0010				PROJECT	3.00							6	18							MOVING OPERATIONS
0010	6+25	-	342+10	M/L SHLD	17.00	222.00	3,774													
0010				PROJECT	5.00							1	5							
				TOTAL 0010			3,879		2,108		4,216		18,567	8			260	98	1	

3

3

646 Paint

CATEGORY	STATION	TO	STATION	LOCATION	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH LF	646.2020 MARKING LINE EPOXY 6-INCH LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH LF	REMARKS
0010		-		CTH O/CTH B		71,500		BEFORE LOCAL DETOUR USE, YELLOW CL
0010		-		CTH O/CTH B		86,600		BEFORE LOCAL DETOUR USE, WHITE EDGELINE
0010		-		STH 70	430			CULVERT REPLACEMENTS
0010	6+25	-	342+10	STH 70	23,600			CIR SURFACE CL YELLOW
0010	6+25	-	342+10	STH 70	23,600			LOWER LIFT CL YELLOW
0010	6+25	-	342+10	STH 70	23,600			FINISHED SURFACE CL YELLOW
0010	6+25	-	342+10	STH 70			66,900	EDGE LINE WHITE
0010	6+25	-	342+10	STH 70			23,600	CL POST RUMBLE STRIPS INSTALLATION YELLOW
				TOTAL 0010	71,230	158,100	90,500	

650 Staking

CATEGORY	STATION	TO	STATION	LOCATION	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	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 8050-00-70) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	REMARKS
0010	6+25	-	342+10	LT/RT					33,444	1		
0010	75+67	-	76+26	RT			59					YELLOW RIVER BRIDGE
0010	75+67	-	76+26	LT			58					YELLOW RIVER BRIDGE
0010	213+74	-	215+54	LT/RT				1			180	WHISKEY CREEK
0010	226+69	-	228+27	LT/RT				1			158	SMALL PIPE
0010	259+22	-	264+71	LT/RT				1			549	DAGO CREEK
0010	279+48	-	280+94	LT/RT				1			146	SMALL PIPE
0010	326+53	-	335+85	RT							932	GUARDRAIL
0010	332+60	-	332+60	RT	108	108						NEW DRIVEWAY
				TOTAL 0010	108	108	117	4	33,444	1	1,965	

638 MOVING SIGNS

CATEGORY	STATION	LOCATION	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	76+27	LT	1	1	1	YELLOW RIVER BRIDGE SIGNS
0010	76+26	RT	1	1	1	YELLOW RIVER BRIDGE SIGNS
0010	78+42	LT	1	1	1	YELLOW RIVER BRIDGE SIGNS
0010	77+93	RT	1	1	1	YELLOW RIVER BRIDGE SIGNS
		TOTAL 0010	4	4	4	

Document Number
AFFIDAVIT OF CORRECTION
TRANSPORTATION PROJECT PLAT
Wisconsin Department of Transportation
DT1590 7/2016 s. 84.095(3)(b) Wis. Stats.
Exempt from filing transfer return form [s. 77.21(1), 77.22(1), Wis. Stats.]

This Affidavit of Correction applies to Transportation Project Plat 8050-00-20 - 4.01, recorded in Doc. 416204 in the Office of the Register of Deeds for Washburn County.

Under Utility Number 54, Parcel 1 of the Utility Easement Table Recording Information reads:

DOC. 1114776 (Blanket Easement)

Under Utility Number 54, Parcel 1 of the Utility Easement Table Recording Information should be corrected to read:

DOC. 111476 (Blanket Easement)

DOCUMENT #: 419656
RECORDED 06/09/2026 12:21 PM
JESSICA HEDINGER
REGISTER OF DEEDS OFFICE
WASHBURN COUNTY, WISCONSIN
RECORDING FEE: 30.00
TRANSFER FEE:
PAGES: 1
EXEMPTION #:
This document has been electronically recorded and returned.

This space is reserved for recording data

Return to

Wisconsin Department of Transportation
Attn: Thomas Armstrong
1701 N. 4th St.
Superior, WI 54880

Parcel Identification Number/Tax Key Number
65-020-2-39-13-33-3 04-000-001000

I certify that I represent the entity, which prepared or submitted the original plat.
This Affidavit of Correction has been approved by the Wisconsin Department of Transportation.

(Signature)

Jason L. Cance
(Print Name)

Professional Land Surveyor
(Title)

WISCONSIN
JASON L. CANCE
S-2688
CHIPPEWA FALLS WI
LAND SURVEYOR

Seal(s)

Subscribed and sworn to before me this date.

June 9, 2026
(Date)

State of Wisconsin)
) ss.
Chippewa County)

Heather Bernadette Hinke
(Signature, Notary Public, State of Wisconsin)

Heather Bernadette Hinke
(Print or Type Name, Notary Public, State of Wisconsin)

10-4-2026
(Date Commission Expires)

Heather Bernadette Hinke
Notary Public, State of Wisconsin

Project ID 8050-00-20 This instrument was drafted by Jason L. Cance, SEH Inc. Utility No. 54

TRANSPORTATION PROJECT PLAT NO: 8050-00-20-4.01

THAT PART OF THE SE 1/4 OF THE SW 1/4, SECTION 33, TOWNSHIP 39 NORTH, RANGE 13 WEST, TOWN OF EVERGREEN, WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER STH 70 SIREN - SPOONER, WEST CO LN TO 1350 FT W OF 1ST ST, WASHBURN COUNTY.

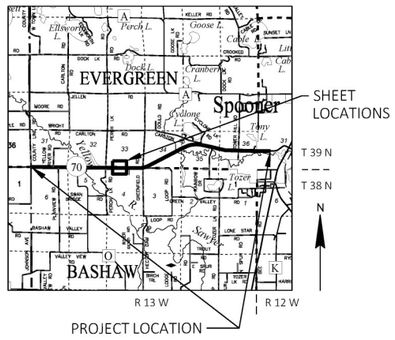
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 34.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH

NOT TO SCALE



FOR ADDITIONAL INFORMATION REFER TO THE TI'LE SHEET, RECORDED AS SHEET 2 OF 2.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WASHBURN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN THE NW REGION - SUPERIOR.

ALL TLE'S ARE FOR SLOPE GRADING PURPOSES, UNLESS OTHERWISE NOTED.

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	FEE R/W SQUARE FEET REQUIRED			TLE SQUARE FEET
			NEW	EXISTING	TOTAL	
1	RICKY FRANZEN TRUST	TLE	-	-	-	656

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
54	DAIRYLAND POWER COOPERATIVE	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY NUMBER	PARCEL	RECORDING INFORMATION	NAME
54	1	V. 338, P. 13-15, DOC. 238394	DAIRYLAND POWER COOPERATIVE
		DOC. 1114776 (BLANKET EASEMENT)	

416204

RECORDED 09/11/2025 08:19 AM
JESSICA HEDINGER
REGISTER OF DEEDS OFFICE
WASHBURN COUNTY, WI
Rec Fee: 25.00
PAGES: 2

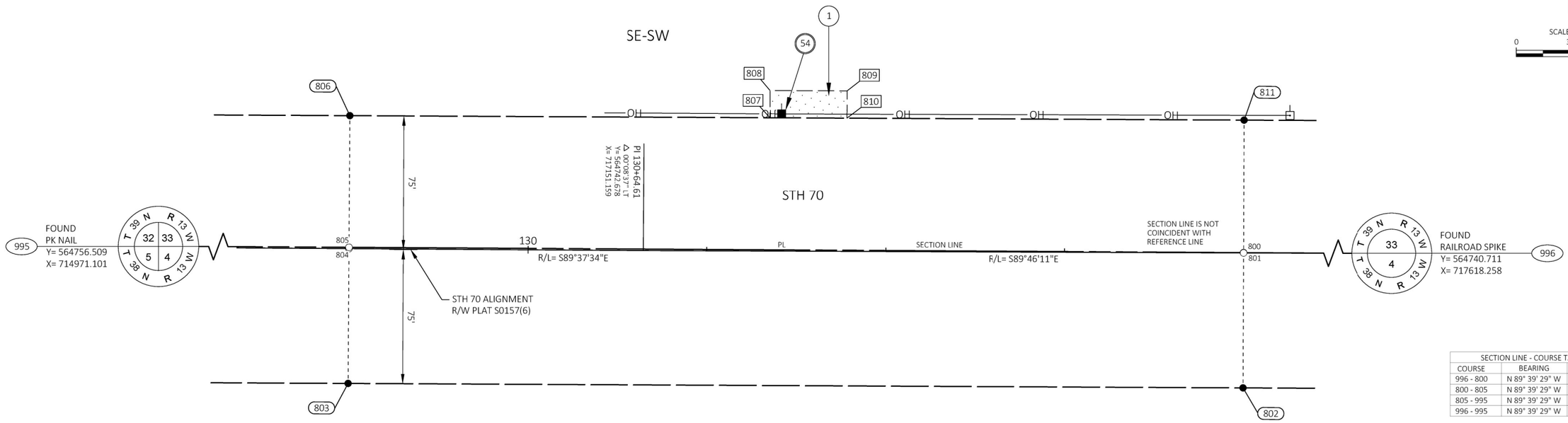
This document has been electronically Recorded and Returned.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8050-00-20-4.01
SHEET 1 OF 2

4

TOWN OF EVERGREEN

SE-SW



NE-NW

TOWN OF BASHAW

SECTION LINE - COURSE TABLE		
COURSE	BEARING	DISTANCE
996 - 800	N 89° 39' 29" W	131.71'
800 - 805	N 89° 39' 29" W	500.00'
805 - 995	N 89° 39' 29" W	2015.49'
996 - 995	N 89° 39' 29" W	2647.20'

N

SCALE, FEET
0 30 60

ROAD NAME	BASIS OF EXISTING R/W
STH 70	CONVEYANCE OF LANDS FOR HIGHWAY PURPOSES DOC. 111376 (1954)
STH 70	R/W PROJECT S0157(6) (1954)

RIGHT-OF-WAY COURSE TABLE		
COURSE	BEARING	DISTANCE
800 - 801	S 00° 13' 49" W	0.17'
801 - 802	S 00° 13' 49" W	75.48'
802 - 803	N 89° 42' 51" W	500.19'
803 - 804	N 00° 22' 26" E	75.41'
804 - 805	N 00° 22' 26" E	0.73'
805 - 806	N 00° 22' 26" E	73.86'
806 - 811	S 89° 42' 51" E	499.81'
811 - 800	S 00° 13' 49" W	74.35'

RIGHT-OF-WAY STATION & OFFSET TABLE		
POINT	STATION	OFFSET
800	134+00.00	0.17' LT
801	134+00.00	0.00'
802	134+00.00	75.48' RT
803	129+00.00	75.41' RT
804	129+00.00	0.00'
805	129+00.00	0.73' LT
806	129+00.00	74.59' LT
811	134+00.00	74.52' LT

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
807	131+35.00	74.78' LT
808	131+35.00	90.00' LT
809	131+78.00	90.00' LT
810	131+78.00	74.73' LT

SEH
10 N BRIDGE ST
CHIPPEWA FALLS WI 54729

I, JASON L. CANCE PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: 9-9-25

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

PRINT NAME: JASON L. CANCE

REGISTRATION NUMBER: S-2688

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - SUPERIOR

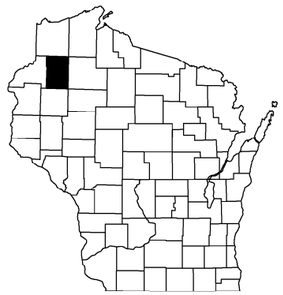
SIGNATURE: _____ DATE: 9/9/2025

PRINT NAME: AARON GUSTAFSON

FILE NAME : X:\UZ\W\WITNW\175661\5-FINAL-DSGN\51-DRAWINGS\40-¯RANSHWY\RW\DWG\040101-RP.DWG
APPRAISAL PLAT DATE : 9-9-25

PLOT DATE : 9/9/2025 9:22 AM PLOT BY : SEH PLOT NAME :

WISDOT 8050-00-20-4.01



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
8050-00-20
SIREN - SPOONER
WEST CO LN TO 1350 FT W OF 1ST ST
STH 70
WASHBURN COUNTY

4

4

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
EXISTING CENTERLINE
CORPORATE LIMITS
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
BUILDING — TO BE REMOVED
BRIDGE — CULVERT

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
NON-PERMITTED SIGN — PERMITTED SIGN
ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25)
PARALLEL OFFSETS

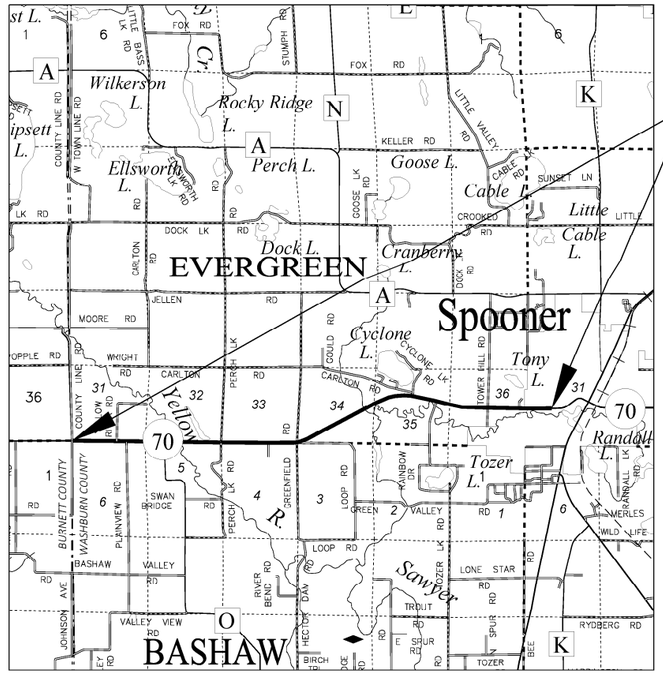
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND SURVEY MONUMENT (SEE FOUND MONUMENT TABLE)

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	PROPERTY LINE	PL
ACRES	AC	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
CORNER	COR	SEPTIC VENT	SEPV
DOCUMENT NUMBER	DOC	SQUARE FEET	SF
EASEMENT	EASE	STATE TRUNK HIGHWAY	STH
EXISTING	EX	STATION	STA
GAS VALVE	GV	TELEPHONE PEDESTAL	TP
GRID NORTH	GN	TRANSPORTATION PROJECT PLAT	TPP
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
INTERSTATE HIGHWAY	IH	VOLUME	V
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		
POINT OF INTERSECTION	PI		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
DELTA ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB



CONVENTIONAL UTILITY SYMBOLS

UTILITY NUMBER (40)

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
COMBINED SEWER	SSS
ELECTRIC TOWER	
TRANSMISSION STRUCTURES	

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

LAYOUT SCALE 0 — 1 MI.

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 8050-00-20.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WASHBURN COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN THE NW REGION - SUPERIOR.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TPP DETAIL PAGES.

PROJECT NUMBER 8050-00-20-4.01
SHEET 2 OF 2

FILE NAME : X:\UZ\W\WITNW\175661\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\RW\DWG\040101-RP.DWG
LAYOUT NAME: Title
PLOT DATE : 9/9/2025 9:19 AM PLOT BY : SEH
8050-00-20-4.01

TRANSPORTATION PROJECT PLAT NO: 8050-00-20-4.02

THAT PART OF THE NE 1/4 OF THE SE 1/4, SECTION 34, TOWNSHIP 39 NORTH, RANGE 13 WEST, TOWN OF EVERGREEN, WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER STH 70 SIREN - SPOONER, WEST CO LN TO 1350 FT W OF 1ST ST, WASHBURN COUNTY.

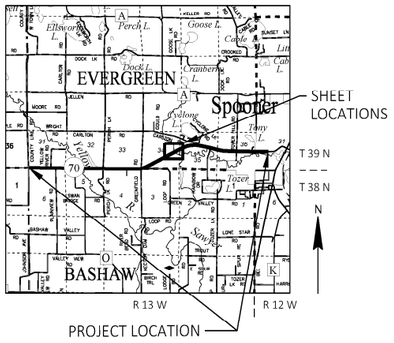
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH

NOT TO SCALE



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WASHBURN COUNTY AS SHEET 2 OF 2 DOCUMENT NUMBER 416204.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WASHBURN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN THE NW REGION - SUPERIOR.

ALL TLE'S ARE FOR SLOPE GRADING PURPOSES, UNLESS OTHERWISE NOTED.

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	FEE R/W SQUARE FEET REQUIRED			TLE SQUARE FEET
			NEW	EXISTING	TOTAL	
2	DIANE STENE	TLE	-	-	-	1705

416449

RECORDED 09/26/2025 08:32 AM
JESSICA HEDINGER
REGISTER OF DEEDS OFFICE
WASHBURN COUNTY, WI
Rec Fee: 25.00
PAGES: 1
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8050-00-20-4.02

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	BARRON ELECTRIC COOPERATIVE	RELEASE OF RIGHTS

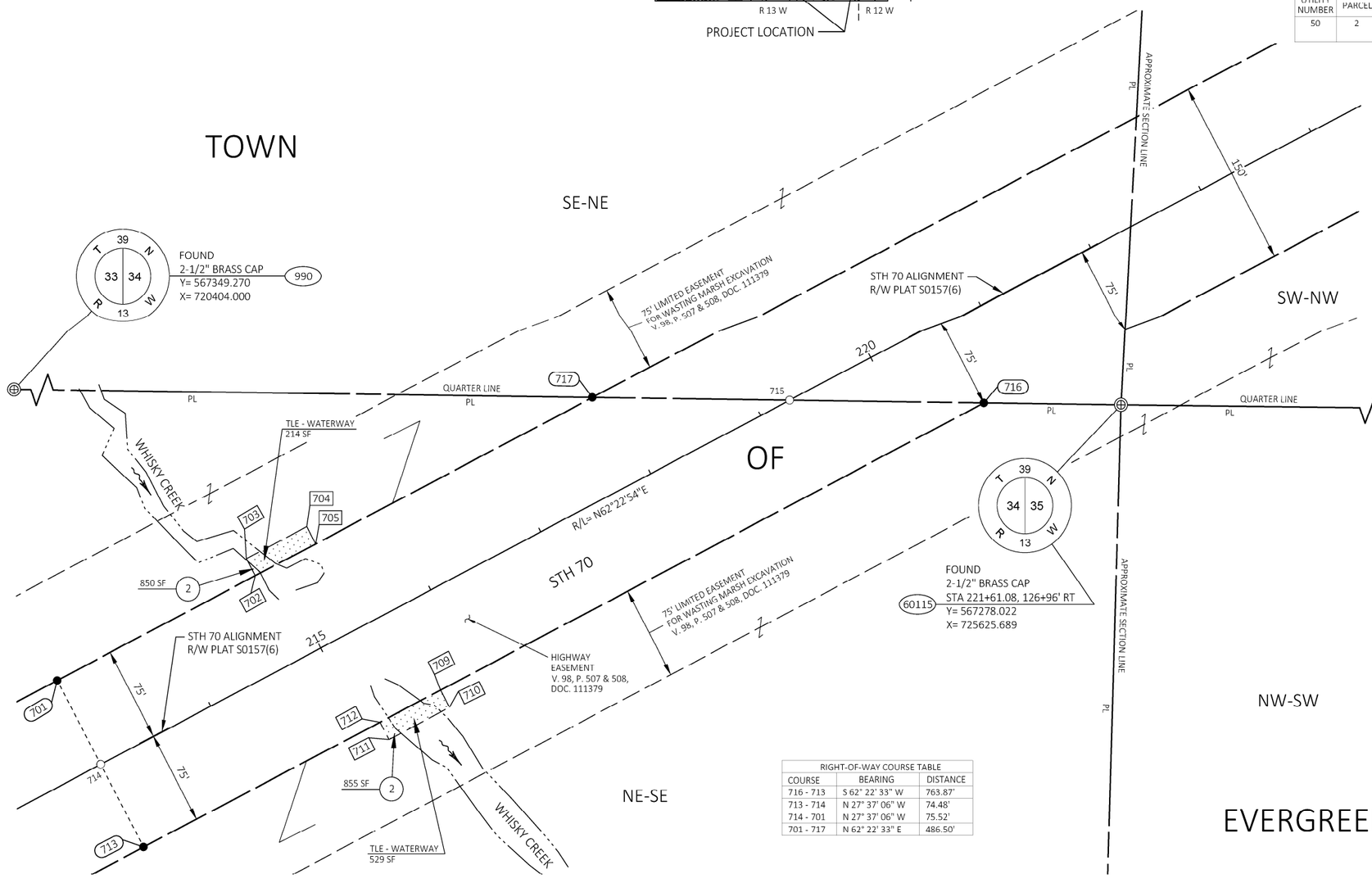
UTILITY EASEMENT TABLE			
UTILITY NUMBER	PARCEL	RECORDING INFORMATION	NAME
50	2	V. 350, P. 306-307, DOC. 247618 (BLANKET EASEMENT)	BARRON ELECTRIC COOPERATIVE

ROAD NAME	BASIS OF EXISTING R/W
STH 70	R/W PROJECT S0157(6) (1954)

N

SCALE, FEET
0 50 100

4



QUARTER LINE - COURSE TABLE		
COURSE	BEARING	DISTANCE
60115 - 716	N 89° 13' 06" W	110.51'
716 - 715	N 89° 13' 06" W	156.44'
715 - 717	N 89° 13' 06" W	158.88'
717 - 990	N 89° 13' 06" W	4796.35'
60115 - 990	N 89° 13' 06" W	5222.18'
60115 - 60116	S 89° 20' 01" E	5298.86'

RIGHT-OF-WAY COURSE TABLE		
COURSE	BEARING	DISTANCE
716 - 713	S 62° 22' 33" W	763.87'
713 - 714	N 27° 37' 06" W	74.48'
714 - 701	N 27° 37' 06" W	75.52'
701 - 717	N 62° 22' 33" E	486.50'

RIGHT-OF-WAY STATION & OFFSET TABLE		
POINT	STATION	OFFSET
701	213+00.00	75.52' LT
713	213+00.00	74.48' RT
714	213+00.00	0.00'
715	219+26.26	0.00'
716	220+63.87	74.41' RT
717	217+86.50	75.57' LT

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
702	214+80.00	75.53' LT
703	214+80.00	91.00' LT
704	215+35.00	91.00' LT
705	215+35.00	75.54' LT
709	215+70.00	74.46' RT
710	215+70.00	90.00' RT
711	215+15.00	90.00' RT
712	215+15.00	74.46' RT

SEH
10 N BRIDGE ST
CHIPPEWA FALLS WI 54729

I, JASON L. CANCE PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

SIGNATURE: _____ DATE: 9-22-25

PRINT NAME: JASON L. CANCE

REGISTRATION NUMBER: S-2688

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - SUPERIOR

SIGNATURE: Aaron Gustafson DATE: 9-24-25

PRINT NAME: AARON GUSTAFSON

TRANSPORTATION PROJECT PLAT NO: 8050-00-20-4.03

THAT PART OF THE SW 1/4 OF THE NE 1/4, SECTION 35, TOWNSHIP 39 NORTH, RANGE 13 WEST, TOWN OF EVERGREEN, WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER STH 70 SIREN - SPOONER, WEST CO LN TO 1350 FT W OF 1ST ST, WASHBURN COUNTY.

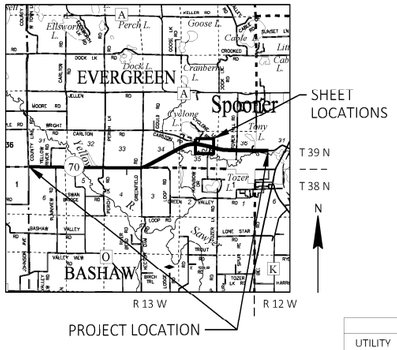
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH

NOT TO SCALE



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WASHBURN COUNTY AS SHEET 2 OF 2 DOCUMENT NUMBER 416204.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WASHBURN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN THE NW REGION - SUPERIOR.

FOUND MONUMENTS INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

ALL TLE'S ARE FOR SLOPE GRADING PURPOSES, UNLESS OTHERWISE NOTED.

EXISTING ACCESS CONTROL ALONG STH 70 ESTABLISHED FROM CSM 2690, V. 12, P. 33, DOC. 272344.

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	FEE R/W SQUARE FEET REQUIRED			TLE SQUARE FEET
			NEW	EXISTING	TOTAL	
3	KENNETH L. KINCAID	TLE	-	-	-	388

416450

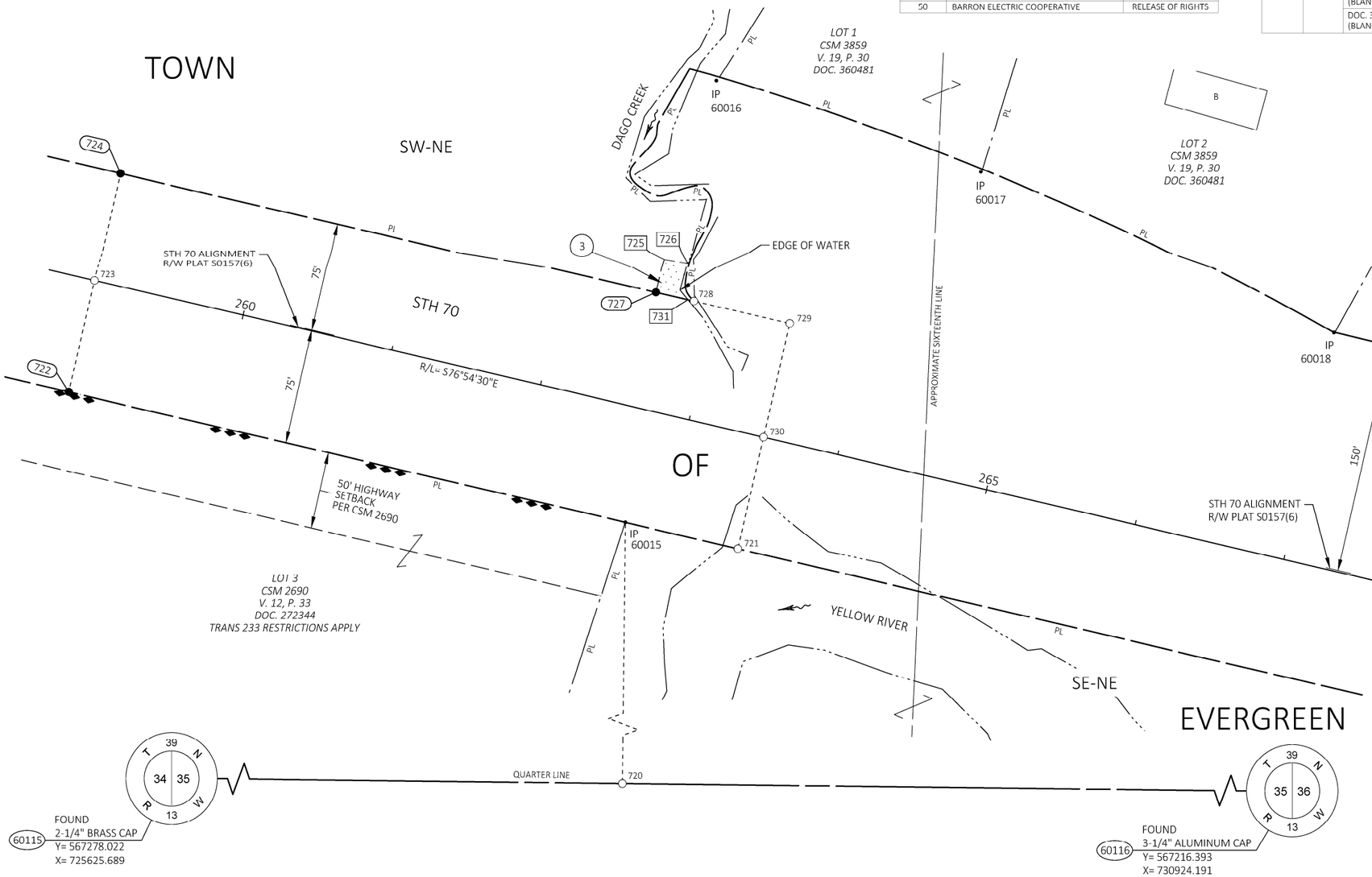
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8050-00-20-4.03

UTILITY EASEMENT TABLE			
UTILITY NUMBER	PARCEL	RECORDING INFORMATION	NAME
50	3	DOC. 90459 (BLANKET EASEMENT)	BARRON ELECTRIC COOPERATIVE
		V. 163, P. 713-714, DOC. 152202 (BLANKET EASEMENT)	
		V. 163, P. 715, DOC. 152203 (BLANKET EASEMENT)	
		V. 165, P. 287-288, DOC. 152964 (BLANKET EASEMENT)	
		V. 165, P. 289-290, DOC. 152965 (BLANKET EASEMENT)	
		V. 170, P. 228-229, DOC. 155510 (BLANKET EASEMENT)	
		DOC. 308254 (BLANKET EASEMENT)	

ROAD NAME	BASIS OF EXISTING R/W
STH 70	CSM 3859, V. 19, P. 30, DOC. 360481 (2013)
STH 70	CSM 2690, V. 12, P. 33, DOC. 272344 (2000)
STH 70	R/W PROJECT S0157(6) (1954)

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	BARRON ELECTRIC COOPERATIVE	RELEASE OF RIGHTS



FOUND MONUMENTS			
POINT	Y	X	DESCRIPTION
60015	567643.470	729437.419	3/4" REBAR
60016	567934.486	729497.024	1" IRON PIPE
60017	567875.177	729670.307	1" IRON PIPE
60018	567766.492	729901.607	1" IRON PIPE

N

SCALE, FEET
0 40 80

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
725	262+60.00	100.00' LT
726	262+75.79	100.00' LT
731	262+81.58	75.74' LT

RIGHT OF WAY STATION & OFFSET TABLE		
POINT	STATION	OFFSET
720	263+62.53	474.42' RT
60015	262+74.36	74.27' RT
721	263+50.00	74.22' RT
722	259+00.00	74.47' RT
723	259+00.00	0.00'
724	259+00.00	75.53' LT
727	262+60.00	75.73' LT
728	262+85.56	75.74' LT
729	263+50.00	75.78' LT
730	263+50.00	0.00'

RIGHT-OF-WAY COURSE TABLE		
COURSE	BEARING	DISTANCE
720 - 60015	N 00° 39' 59" E	409.76'
60015 - 722	N 76° 56' 24" W	374.36'
722 - 723	N 13° 05' 30" E	74.47'
723 - 724	N 13° 05' 30" E	75.53'
724 - 727	S 76° 56' 24" E	360.00'
727 - 728	S 76° 56' 24" E	25.56'
728 - 729	S 76° 56' 24" E	64.44'
729 - 730	S 13° 05' 30" W	75.78'
730 - 721	S 13° 05' 30" W	74.22'
721 - 60015	N 76° 56' 24" W	75.64'

QUARTER LINE - COURSE TABLE		
COURSE	BEARING	DISTANCE
60115 - 720	S 89° 20' 01" E	3807.22'
720 - 60116	S 89° 20' 01" E	1491.64'
60115 - 60116	S 89° 20' 01" E	5298.86'

SEH
10 N BRIDGE ST
CHIPPEWA FALLS WI 54729

I, JASON L. CANCE PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: 9-22-25

PRINT NAME: JASON L. CANCE

REGISTRATION NUMBER: S-2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - SUPERIOR

SIGNATURE: _____ DATE: 9-24-25

PRINT NAME: AARON GUSTAFSON

FILE NAME : X:\UZ\W\WITNW\175661\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\RW\DWG\040101-RP.DWG
APPRAISAL PLAT DATE . 9-22-25

PLOT DATE : 9/22/2025 5:30 PM PLOT BY : SEH PLOT NAME :

WISDOT 8050-00-20-4.03

TRANSPORTATION PROJECT PLAT NO: 8050-00-20-4.04

THAT PART OF LOT 1, CSM 3624, V. 17, P. 126, DOC. 330481, LOCATED IN THE NW 1/4 OF THE SE 1/4, SECTION 36, TOWNSHIP 39 NORTH, RANGE 13 WEST, TOWN OF EVERGREEN, WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER STH 70 SIREN - SPOONER, WEST CO LN TO 1350 FT W OF 1ST ST, WASHBURN COUNTY.

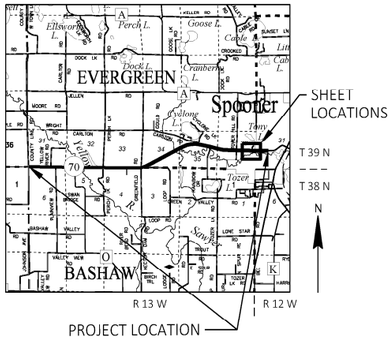
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
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LOCATION SKETCH

NOT TO SCALE



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WASHBURN COUNTY AS SHEET 2 OF 2 DOCUMENT NUMBER 416204.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WASHBURN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN THE NW REGION - SUPERIOR.

ALL TLE'S ARE FOR SLOPE GRADING PURPOSES, UNLESS OTHERWISE NOTED.

EXISTING ACCESS CONTROL ALONG STH 70 ESTABLISHED FROM DOC. 292882.

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	FEE R/W SQUARE FEET REQUIRED			TLE SQUARE FEET
			NEW	EXISTING	TOTAL	
4	KENDRA DEE VISSER	TLE	-	-	-	1193

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	BARRON ELECTRIC COOPERATIVE	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY NUMBER	PARCEL	RECORDING INFORMATION	NAME
50	4	V. 209, P. 353-354, DOC. 175891 (BLANKET EASEMENT)	BARRON ELECTRIC COOPERATIVE
		V. 310, P. 502, DOC. 226670 (BLANKET EASEMENT)	

416451

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PROJECT NUMBER 8050-00-20-4.04

4

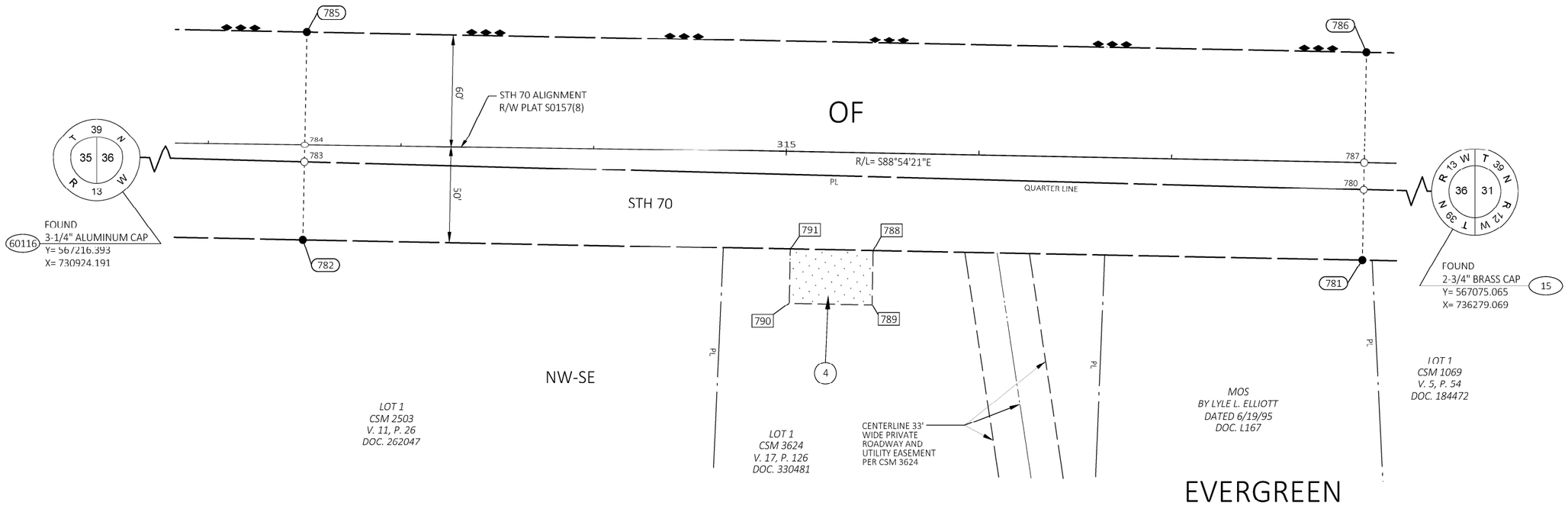
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0 30 60

TOWN OF EVERGREEN

SW-NE



ROAD NAME	BASIS OF EXISTING R/W
STH 70	CSM 3624, V. 17, P. 126, DOC. 330481 (2008)
STH 70	CSM 2503, V. 11, P. 26, DOC. 262047 (1999)
STH 70	MOS BY LYLE L. ELLIOTT, DOC. L167 (1995)
STH 70	CSM 1069, V. 5, P. 54, DOC. 184472 (1982)
STH 70	R/W PROJECT S0157(8) (1956)

RIGHT-OF-WAY COURSE TABLE		
COURSE	BEARING	DISTANCE
780 - 781	S 01° 05' 39" W	36.15'
781 - 782	N 88° 54' 30" W	550.00'
782 - 783	N 01° 05' 39" E	40.18'
783 - 784	N 01° 05' 39" E	10.09'
784 - 785	N 01° 05' 39" E	59.73'
785 - 786	S 88° 54' 30" E	550.00'
786 - 787	S 01° 05' 39" W	59.75'
787 - 780	S 01° 05' 39" W	14.10'

RIGHT-OF-WAY STATION & OFFSET TABLE		
POINT	STATION	OFFSET
780	318+00.00	14.10' RT
781	318+00.00	50.25' RT
782	312+50.00	50.27' RT
783	312+50.00	10.09' RT
784	312+50.00	0.00'
785	312+50.00	59.73' LT
786	318+00.00	59.75' LT
787	318+00.00	0.00'

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
788	315+46.00	50.26' RT
789	315+46.00	78.00' RT
790	315+03.00	78.00' RT
791	315+03.00	50.26' RT

QUARTER LINE - COURSE TABLE		
COURSE	BEARING	DISTANCE
15 - 780	N 88° 29' 17" W	1361.96'
780 - 783	N 88° 29' 17" W	550.01'
783 - 60116	N 88° 29' 17" W	3444.77'
15 - 60116	N 88° 29' 17" W	5356.74'

SEH
10 N BRIDGE ST
CHIPPEWA FALLS WI 54729

I, JASON L. CANCE PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

SIGNATURE: _____ DATE: 9-22-25

PRINT NAME: JASON L. CANCE

REGISTRATION NUMBER: S-2688

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - SUPERIOR

SIGNATURE: _____ DATE: 9-24-25

PRINT NAME: AARON GUSTAFSON

FILE NAME : X:\UZ\W\WITNW\175661\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\RW\DWG\040101-RP.DWG
APPRAISAL PLAT DATE . 9-22-25

PLOT DATE : 9/22/2025 5:31 PM PLOT BY : SEH PLOT NAME :

WISDOT 8050-00-20-4.04

TRANSPORTATION PROJECT PLAT NO: 8050-00-20-4.05 AMENDMENT NO: 1

REMOVES UTILITY NUMBER 51, ADDS UTILITY NUMBER 55 AND AMENDS UTILITY NUMBER 53 ON TRANSPORTATION PROJECT PLAT NO: 8050-00-20-4.05 RECORDED AS DOCUMENT NO. 416452.

THAT PART LOTS 1 & 2, CSM 2836, V. 12, P. 179, DOC. 283413, LOCATED IN PART OF THE NE 1/4 OF THE SE 1/4, SECTION 36, TOWNSHIP 39 NORTH, RANGE 13 WEST, TOWN OF EVERGREEN, AND PART OF OUTLOTS 51 & 50, ASSESSOR'S PLAT - CITY OF SPOONER, LOCATED IN PART OF THE NW 1/4 OF THE SW 1/4, SECTION 31, TOWNSHIP 39 NORTH, RANGE 12 WEST, CITY OF SPOONER, ALL IN WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER STH 70 SIREN - SPOONER, WEST CO LN TO 1350 FT W OF 1ST ST, WASHBURN COUNTY.

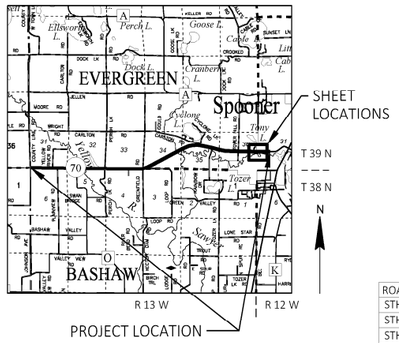
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH

NOT TO SCALE



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WASHBURN COUNTY AS SHEET 2 OF 2 DOCUMENT NUMBER 416204.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WASHBURN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN THE NW REGION - SUPERIOR.

FOUND MONUMENTS INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

ALL TLE'S ARE FOR SLOPE GRADING PURPOSES, UNLESS OTHERWISE NOTED.

ROAD NAME	BASIS OF EXISTING R/W
STH 70, AUTO LANE	CSM 4253, DOC. 407862 (2023)
STH 70	POS BY WILLIAM T. MARX (2021)
STH 70	CSM 2836, V. 12, P. 179, DOC. 283413 (2002)
STH 70	CSM 1884 V. 8, P. 45, DOC. 225518 (1992)
STH 70	R/W PROJECT S0157(8) (1956)
STH 70	ASSESSOR'S PLAT - CITY OF SPOONER (1937)

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED

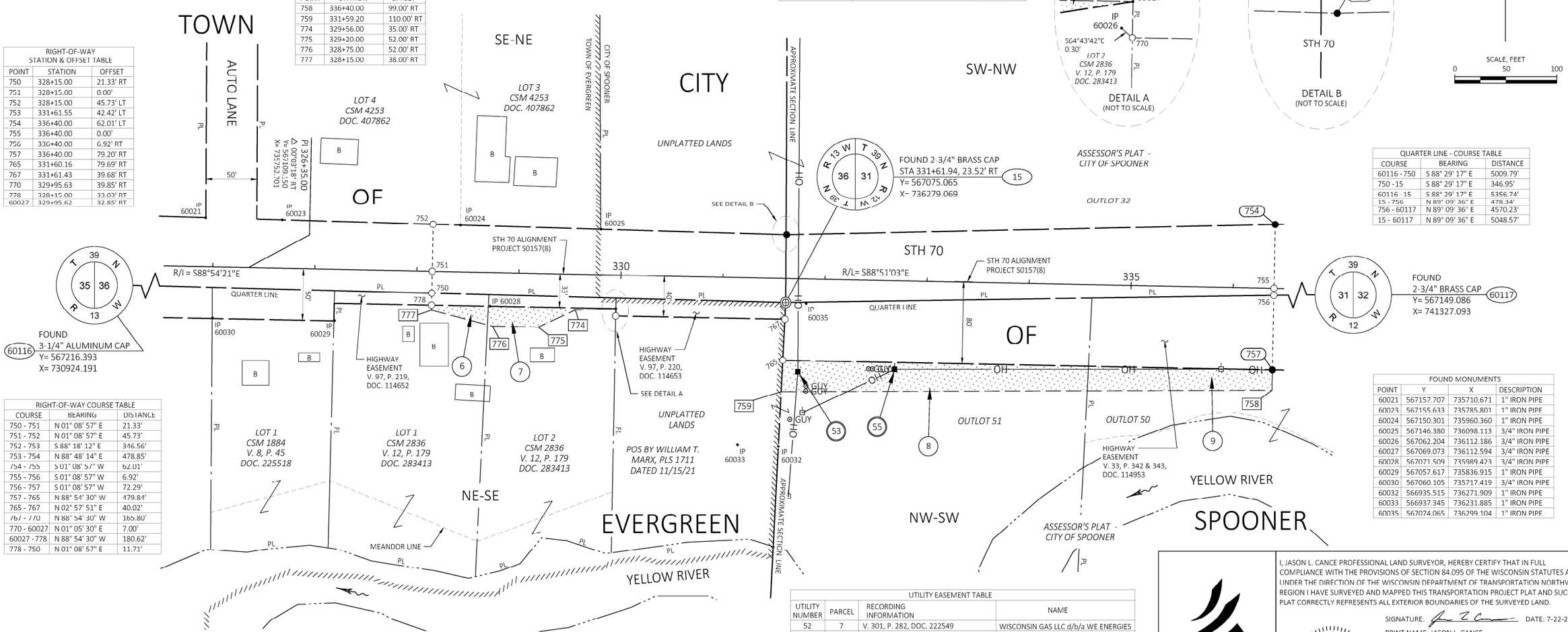
PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	FEE R/W SQUARE FEET REQUIRED			TLE SQUARE FEET
			NEW	EXISTING	TOTAL	
6	TIEA MOYER	TLE	-	-	-	635
7	ANNA & MICHAEL HUNTER	TLE	-	-	-	1365
8	AARON & KIMBERLY HUNTSMAN	TLE	-	-	-	8099
9	STATE OF WISCONSIN	TLE	-	-	-	3932

DOCUMENT #: 420291
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8050-00-20-4.05
AMENDMENT NO: 1

RIGHT-OF-WAY STATION & OFFSET TABLE		
POINT	STATION	OFFSET
750	328+15.00	21.33' RT
751	328+15.00	0.00'
752	328+15.00	45.73' LT
753	331+61.55	42.42' LT
754	336+40.00	62.01' LT
755	336+40.00	0.00'
756	336+40.00	6.92' RT
757	336+40.00	79.20' RT
765	331+60.16	79.69' RT
767	331+61.43	39.68' RT
770	329+95.63	39.85' RT
778	328+15.00	33.03' RT
60027	329+95.62	32.85' RT

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
758	336+40.00	99.00' RT
759	331+59.20	110.00' RT
774	329+56.00	35.00' RT
775	329+20.00	52.00' RT
776	328+75.00	52.00' RT
777	328+15.00	38.00' RT



QUARTER LINE - COURSE TABLE		
COURSE	BEARING	DISTANCE
60116 - 750	S 88° 29' 17" E	5009.79'
750 - 15	S 88° 29' 17" E	346.95'
60116 - 15	S 88° 29' 17" E	5356.74'
15 - 756	N 89° 09' 36" E	478.34'
756 - 60117	N 89° 09' 36" E	4570.23'
15 - 60117	N 89° 09' 36" E	5048.57'

RIGHT-OF-WAY COURSE TABLE		
COURSE	BEARING	DISTANCE
750 - 751	N 01° 08' 57" E	21.33'
751 - 752	N 01° 08' 57" E	45.73'
752 - 753	S 88° 18' 12" E	346.56'
753 - 754	N 88° 48' 14" E	478.85'
754 - 755	S 01° 08' 57" W	62.01'
755 - 756	S 01° 08' 57" W	6.92'
756 - 757	S 01° 08' 57" W	72.29'
757 - 765	N 88° 54' 30" W	479.84'
765 - 767	N 02° 57' 51" E	40.02'
767 - 770	N 88° 54' 30" W	169.80'
770 - 60027	N 01° 05' 30" E	7.00'
60027 - 778	N 88° 54' 30" W	180.62'
778 - 750	N 01° 08' 57" E	11.71'

FOUND MONUMENTS			
POINT	Y	X	DESCRIPTION
60021	567157.707	735710.671	1" IRON PIPE
60023	567155.633	735785.801	1" IRON PIPE
60024	567150.301	735960.360	1" IRON PIPE
60025	567146.380	736098.113	3/4" IRON PIPE
60026	567062.204	736112.186	3/4" IRON PIPE
60027	567069.073	736112.594	3/4" IRON PIPE
60028	567071.509	735989.423	3/4" IRON PIPE
60029	567057.617	735836.915	1" IRON PIPE
60030	567060.105	735717.419	3/4" IRON PIPE
60032	566935.515	736271.909	1" IRON PIPE
60033	566937.345	736231.885	1" IRON PIPE
60035	567074.065	736299.104	1" IRON PIPE

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
52	WISCONSIN GAS LLC d/b/a WE ENERGIES	RELEASE OF RIGHTS
53	NORTHERN STATES POWER COMPANY, A WISCONSIN CORPORATION	RELEASE OF RIGHTS
55	SPOONER MUNICIPAL UTILITIES	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY NUMBER	PARCEL	RECORDING INFORMATION	NAME
52	7	V. 301, P. 282, DOC. 222549	WISCONSIN GAS LLC d/b/a WE ENERGIES
53	6, 7	DOC. 97903 (AMBIGUOUS EASEMENT)	NORTHERN STATES POWER COMPANY, A WISCONSIN CORPORATION
		DOC. 111022 (AMBIGUOUS EASEMENT)	
	8	V. 127, P. 49-50, DOC. 134675	
		DOC. 112910 (AMBIGUOUS EASEMENT)	
		DOC. 114824 (AMBIGUOUS EASEMENT)	
55	8, 9	DOC. 52795 (AMBIGUOUS EASEMENT)	SPOONER MUNICIPAL UTILITIES
	9	DOC. 183466 (AMBIGUOUS EASEMENT)	
		DOC. 198503 (AMBIGUOUS EASEMENT)	

SEH
10 N BRIDGE ST
CHIPPEWA FALLS WI 54729

I, JASON L. CANCE PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: 7-22-26

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

PRINT NAME: JASON L. CANCE

REGISTRATION NUMBER: S-2688

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - SUPERIOR

SIGNATURE: _____ DATE: 7-23-26

PRINT NAME: AARON GUSTAFSON

FILE NAME : X:\UZ\W\WITNW\175661\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\RW\DWG\040101-RP.DWG
APPRAISAL PLAT DATE : 7-22-26
PLOT DATE : 7/22/2026 3:39 PM
PLOT BY : SEH
PLOT NAME :
WISDOT 8050-00-20-4.05A1

Document Number
VACATION ORDER
TRANSPORTATION PROJECT PLAT
Wisconsin Department of Transportation
DT2222 4/2017 s.84.095(3)(b) Wis. Stats.

This Vacation Order applies to Transportation Project Plat 8050-00-20-4.05, recorded on 9/26/2025 as Document Number 416452 in the Office of the Register of Deeds for Washburn County.

Whereas, utility number 51 of the above-described Transportation Project Plat has been determined to be unnecessary for transportation improvement project purposes, said utility number is vacated and rescinded.
Utility Number 51, WISCONSIN HYDRO ELECTRIC COMPANY

DOCUMENT #: 420315
RECORDED 07/27/2026 02:48 PM
JESSICA HEDINGER
REGISTER OF DEEDS OFFICE
WASHBURN COUNTY, WISCONSIN
RECORDING FEE: 30.00
TRANSFER FEE:
PAGES: 1
EXEMPTION #:
This document has been electronically recorded and returned.

This space is reserved for recording data

Return to
Wisconsin Department of Transportation
1701 N. 4th St.
Superior, WI 54880
c/o

Parcel Identification Number/Tax Key Number
PIN: 65-020-2-39-13-3 6-4 01-000-003000, 65-020-2-39-13-36-4 01-000-002000, 65-281-2-39-12-31-5 15-080-0020-10, 65-281-2-39-12-31-5 15-080-003020.

This Vacation Order has been approved by the Wisconsin Department of Transportation.

x _____
(Signature)

7.23.2026
(Date – m/d/yyyy)

Aaron Gustafson
(Print Name)

Technical Services Supervisor
(Title)

(Seal)

State of Wisconsin
DOUGLAS County } ss.

On the above date, this instrument was acknowledged before me by the named person(s).

x _____
(Signature, Notary Public, State of Wisconsin)

AMY GEHRMANN
(Print or Type Name, Notary Public, State of Wisconsin)

9/29/29
(Date Commission Expires)

Project ID 8050-00-20-4.05

This instrument was drafted by WisDOT (taa)

TRANSPORTATION PROJECT PLAT NO: 8050-00-20-4.05

THAT PART LOTS 1 & 2, CSM 2836, V. 12, P. 179, DOC. 283413, LOCATED IN PART OF THE NE 1/4 OF THE SE 1/4, SECTION 36, TOWNSHIP 39 NORTH, RANGE 13 WEST, TOWN OF EVERGREEN, AND PART OF OUTLOTS 51 & 50, ASSESSOR'S PLAT - CITY OF SPOONER, LOCATED IN PART OF THE NW 1/4 OF THE SW 1/4, SECTION 31, TOWNSHIP 39 NORTH, RANGE 12 WEST, CITY OF SPOONER, ALL IN WASHBURN COUNTY, WISCONSIN.

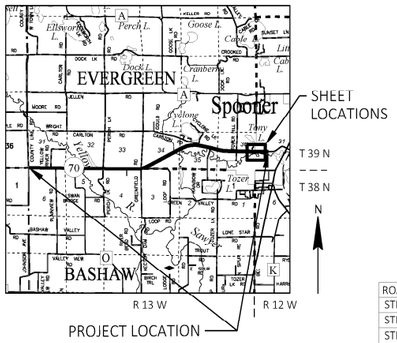
RELOCATION ORDER STH 70 SIREN - SPOONER, WEST CO LN TO 1350 FT W OF 1ST ST, WASHBURN COUNTY.

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH
NOT TO SCALE



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WASHBURN COUNTY AS SHEET 2 OF 2 DOCUMENT NUMBER 416204.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WASHBURN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN THE NW REGION - SUPERIOR.

FOUND MONUMENTS INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

ALL TLE'S ARE FOR SLOPE GRADING PURPOSES, UNLESS OTHERWISE NOTED.

ROAD NAME	BASIS OF EXISTING R/W
STH 70, AUTO LANE	CSM 4253, DOC. 407862 (2023)
STH 70	POS BY WILLIAM T. MARX (2021)
STH 70	CSM 2836, V. 12, P. 179, DOC. 283413 (2002)
STH 70	CSM 1884 V. 8, P. 45, DOC. 225518 (1992)
STH 70	R/W PROJECT S0157(8) (1956)
STH 70	ASSESSOR'S PLAT - CITY OF SPOONER (1937)

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

SCHEDULE OF LANDS & INTERESTS REQUIRED

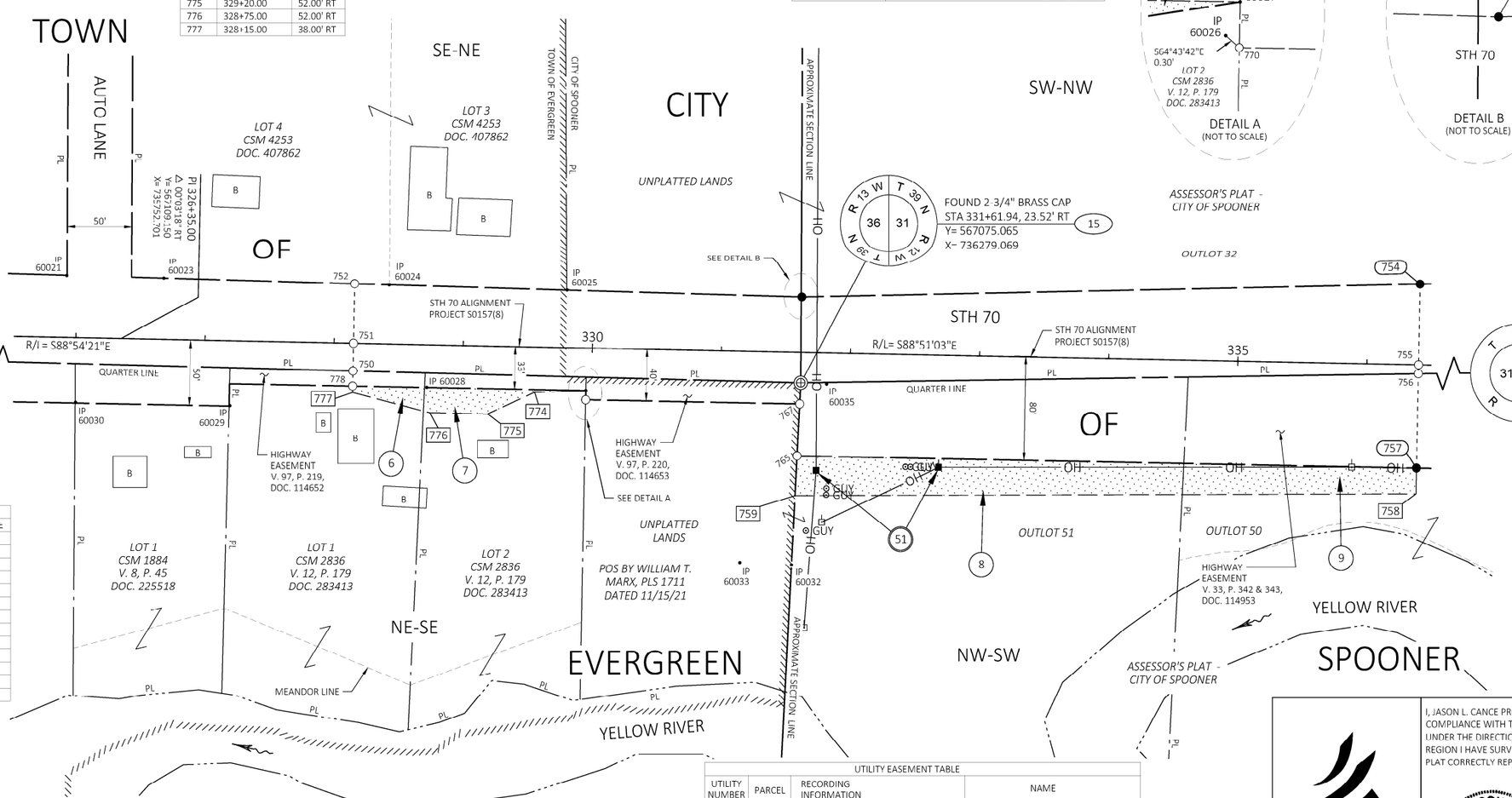
PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED	FEE R/W SQUARE FEET REQUIRED			TLE SQUARE FEET
			NEW	EXISTING	TOTAL	
6	TIEA MOYER	TLE	-	-	-	635
7	ANNA & MICHAEL HUNTER	TLE	-	-	-	1365
8	AARON & KIMBERLY HUNTSMAN	TLE	-	-	-	8099
9	STATE OF WISCONSIN	TLE	-	-	-	3932

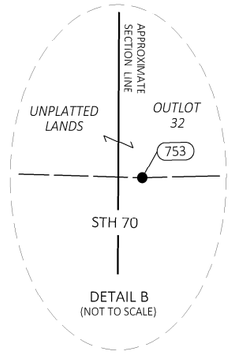
416452
RECORDED 09/26/2025 08:37 AM
JESSICA HEDINGER
REGISTER OF DEEDS OFFICE
WASHBURN COUNTY, WI
Rec Fee: 25.00
PAGES: 1
This document has been electronically Recorded and Returned.

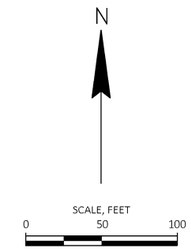
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8050-00-20-4.05

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
758	336+40.00	99.00' RT
759	331+59.20	110.00' RT
774	329+56.00	35.00' RT
775	329+20.00	52.00' RT
776	328+75.00	52.00' RT
777	328+15.00	38.00' RT

RIGHT-OF-WAY STATION & OFFSET TABLE		
POINT	STATION	OFFSET
750	328+15.00	21.33' RT
751	328+15.00	0.00'
752	328+15.00	45.73' LT
753	331+61.55	42.42' LT
754	336+40.00	62.01' LT
755	336+40.00	0.00'
756	336+40.00	6.92' RT
757	336+40.00	79.20' RT
765	331+60.16	79.69' RT
767	331+61.43	39.68' RT
770	329+95.63	39.85' RT
778	328+15.00	33.03' RT
60027	329+95.62	32.85' RT







QUARTER LINE - COURSE TABLE		
COURSE	BEARING	DISTANCE
60116 - 750	S 88° 29' 17" E	5009.79'
750 - 15	S 88° 29' 17" E	346.95'
60116 - 15	S 88° 29' 17" E	5356.74'
15 - 756	N 89° 09' 36" E	478.34'
756 - 60117	N 89° 09' 36" E	4570.23'
15 - 60117	N 89° 09' 36" E	5048.57'

RIGHT-OF-WAY COURSE TABLE		
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753 - 754	N 88° 48' 14" E	478.85'
754 - 755	S 01° 08' 57" W	62.01'
755 - 756	S 01° 08' 57" W	6.92'
756 - 757	S 01° 08' 57" W	72.29'
757 - 765	N 88° 54' 30" W	479.84'
765 - 767	N 02° 57' 51" E	40.02'
767 - 770	N 88° 54' 30" W	165.80'
770 - 60027	N 01° 05' 30" E	7.00'
60027 - 778	N 88° 54' 30" W	180.62'
778 - 750	N 01° 08' 57" E	11.71'

FOUND MONUMENTS			
POINT	Y	X	DESCRIPTION
60021	567157.707	735710.671	1" IRON PIPE
60023	567155.633	735785.801	1" IRON PIPE
60024	567150.301	735960.360	1" IRON PIPE
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60032	566935.515	736271.909	1" IRON PIPE
60033	566937.345	736231.885	1" IRON PIPE
60035	567074.065	736299.104	1" IRON PIPE

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
51	WISCONSIN HYDRO ELECTRIC COMPANY	RELEASE OF RIGHTS
52	WISCONSIN GAS LLC d/b/a WE ENERGIES	RELEASE OF RIGHTS
53	NORTHERN STATES POWER COMPANY, A WISCONSIN CORPORATION	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY NUMBER	PARCEL	RECORDING INFORMATION	NAME
51	6, 7	DOC. 97903 (AMBIGUOUS EASEMENT)	WISCONSIN HYDRO ELECTRIC COMPANY
		DOC. 111022 (AMBIGUOUS EASEMENT)	
	8, 9	DOC. 52795 (AMBIGUOUS EASEMENT)	
	8	DOC. 112910 (AMBIGUOUS EASEMENT)	
		DOC. 114824 (AMBIGUOUS EASEMENT)	
52	7	V. 301, P. 282, DOC. 222549	WISCONSIN GAS LLC d/b/a WE ENERGIES
53	8	V. 127, P. 49-50, DOC. 134675	NORTHERN STATES POWER COMPANY, A WISCONSIN CORPORATION

SEH
10 N BRIDGE ST
CHIPPEWA FALLS WI 54729

I, JASON L. CANCE PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: 9-22-25
PRINT NAME: JASON L. CANCE
REGISTRATION NUMBER: S-2688

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - SUPERIOR
SIGNATURE: _____ DATE: 9-24-25
PRINT NAME: AARON GUSTAFSON

FILE NAME : X:\UZ\W\WITNW\175661\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\RW\DWG\040101-RP.DWG
APPRAISAL PLAT DATE . 9-22-25
PLOT DATE : 9/22/2025 5:33 PM PLOT BY : SEH PLOT NAME :
WISDOT 8050-00-20-4.05

N

MATCH LINE 21+50

WE ENERGIES - GAS/PETROLEUM

EXISTING R/W

STA 15+95, LT
EXISTING F.E. (B.A.D.)
W9605

6 8 10 12 S89°48'32"E 1666.22' 14 16 18 20

STA 20+61, RT
EXISTING F.E. (B.A.D.)
ALT. PROPERTY ACCESS

EXISTING R/W

CULVERT NUMBER: 650700311100
STA 12+34
24" LINED CMP TO REMAIN
(2) MARKERS CULVERT END

STA 16+44, RT
EXISTING P.E. (B.A.D.)
W9575 THRU W9605

BEGIN PROJECT
STA 6+25
Y=564,870.370
X=704,712.428

5

5

N

MATCH LINE 37+00

YELLOW RIVER DRIVE

2
1079.562
CP 2 /SPK
X: 707347.8360
Y: 564897.5890

PI: 21+78.42

STA 23+10, LT
EXISTING P.E. (B.A.D.)
W9562

WE ENERGIES - GAS/PETROLEUM

STA 29+78, LT
EXISTING P.E. (B.A.D.)
W9498

EXISTING R/W

22 24 26 28 S89°11'29"E 1597.51' 30 32 34 36

EXISTING R/W

CULVERT NUMBER: UNKNOWN
STA 24+44
EXISTING 24" CMP TO REMAIN
(1) CLEANING CULVERT PIPES
(2) MARKERS CULVERT END

MATCH LINE 21+50

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 45	E

FILE NAME : N:\PDS\C3D\80500000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 01

PLOT DATE : 7/31/2026 3:37 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:100 FT

N

PI: 37+75.93

STA 42+64, LT
EXISTING P.E. (B.A.D.)
W9402

STA 49+05, LT
EXISTING F.E.

EXISTING R/W

38 40 42 44 46 48 50 52

MATCH LINE 52+50

EXISTING R/W

STA 39+84, RT
EXISTING P.E. (B.A.D.)
W9432

PLAIN VIEW ROAD

STA 43+43, RT
EXISTING P.E. (B.A.D.)
W9397

MATCH LINE 37+00

5

5

N

3
1041.004
CP 3 /SPK
X: 710135.4940
Y: 564849.2130

MATCH LINE 68+00

STA 55+87, LT
EXISTING P.E. (B.A.D.)
W9302

WE ENERGIES - GAS/PETROLEUM

8' x 12' RIPRAP MEDIUM

EXISTING R/W

S89°08'59"E 3192.88' 54 56 58 60 62 64 66 6

EXISTING R/W

STA 57+65, RT
EXISTING P.E. (B.A.D.)
W9249

CULVERT NUMBER: 65070031102
STA 62+06
EXISTING 30" CMP TO REMAIN
(1) CLEANING CULVERT PIPES
(2) MARKERS CULVERT END
RIPRAP MEDIUM (LT)
GEOTEXTILE TYPE HR (LT)

MATCH LINE 52+50

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 46	E

N

STA 68+83, LT
EXISTING P.E. (B.A.D.)
W9202

PI: 69+68.81

EXISTING R/W

CONCRETE CURB & GUTTER 36-INCH TYPE TBT
STA 75+67.2- 76+25.5 LT

MGS GUARDRAIL TERMINAL EAT, STA 75+10.9 - 75+64.0 LT
MGS GUARDRAIL 3, STA 75+64.0 - 75+89 LT
MGS THRIE BEAM TRANSITION, STA 75+89.0 - 76+28.4 LT

BRIGHTSPEED - COMMUNICATION LINE

WE ENERGIES - GAS/PETROLEUM

BRIGHTSPEED - COMMUNICATION LINE

STA 73+70.4
-20.7' LT

STA 74+69.8
-17.0' LT

STA 75+10.9
-27.0' LT

STA 75+10.9
-21.0' LT

PI: 75+51.23

YELLOW RIVER

STA 75+84
CONCRETE SURFACE DRAIN
30' LONG, FIELD ADJUST TO
MATCH FLOW LINE

MGS THRIE BEAM TRANSITION, STA 77+23.5 - 77+62.9 LT
MGS GUARDRAIL 3, STA 77+62.9 - 78+00.4 LT
MGS GUARDRAIL TERMINAL EAT, STA 78+00.4 - 78+53.5 LT

PI: 77+93.56

STA 78+53.5
-26.9' LT

STA 78+53.5
-21.0' LT

BRIGHTSPEED - COMMUNICATION LINE

PI: 79+95.69

STA 79+72.6
-19.0' LT

STA 78+93.5
-17.0' LT

4
1047.622
CP 4 /SPK
X: 712315.4630
Y: 564831.9370

MISTY MEADOWS ROAD

MATCH LINE 83+50

STA 73+23, LT
EXISTING P.E. (B.A.D.)
W9170

8 | 70 | 72 | S89°10'28"E 582.42' | 74 | 76 | S89°00'03"E 242.33' | 78 | S89°13'58"E 202.13' | 80 | 82

STA 73+77, RT
EXISTING P.E. (B.A.D.)
W9167

SIRENTEL - COMMUNICATION LINE

EXISTING R/W

STA 73+50.6
23.0' RT

WE ENERGIES - GAS/PETROLEUM
SIRENTEL - COMMUNICATION LINE

STA 74+58.2
17.0' RT

STA 74+98.2
21.0' RT

STA 74+98.3
27.0' RT

STA 75+84
CONCRETE SURFACE DRAIN
30' LONG, FIELD ADJUST TO
MATCH FLOW LINE

STA 76+50 B-65-0034
EXISTING BRIDGE TO REMAIN

MGS GUARDRAIL TERMINAL EAT, STA 74+98.2 - 75+51.4 RT
MGS GUARDRAIL 3, STA 75+51.4 - 75+88.9 RT
MGS THRIE BEAM TRANSITION, STA 75+88.9 - 76+28.3 RT
CONCRETE CURB & GUTTER 36-INCH TYPE TBT
STA 75+66.8 - 76+25.5 RT

STA 78+53.3
21.0' RT

STA 78+53.3
27.0' RT

STA 77+24.78
19.92' RT

STA 78+93.3
17.0' RT

STA 79+72.4
19.0' RT

WE ENERGIES - GAS/PETROLEUM
SIRENTEL - COMMUNICATION LINE

MGS THRIE BEAM TRANSITION, STA 77+23.5 - 77+62.9 RT
MGS GUARDRAIL 3, STA 77+62.9 - 78+00.2 RT
MGS GUARDRAIL TERMINAL EAT, STA 78+00.2 - 78+53.3 RT

2027
1037.223
MON /ALUM CAP
X: 711811.2560
Y: 564763.8430

YELLOW RIVER

CTH O

MATCH LINE 68+00

5

5

N

MATCH LINE 99+00

PI: 98+14.15

EXISTING R/W

STH 70 STA 90+48, LT
EXISTING F.E. (B.A.D.)
FARM ACCESS

84 | 86 | 88 | S89°09'40"E 1818.46' | 90 | 92 | 94 | 96 | 98

STA 87+98, RT
EXISTING P.E. (B.A.D.)
W9081 / W9057

STH 70 STA 90+75, RT
EXISTING P.E. (B.A.D.)
W9039 / W9035

STH 70 STA 95+04, RT
EXISTING P.E. (B.A.D.)
MULTIPLE ADDRESSES

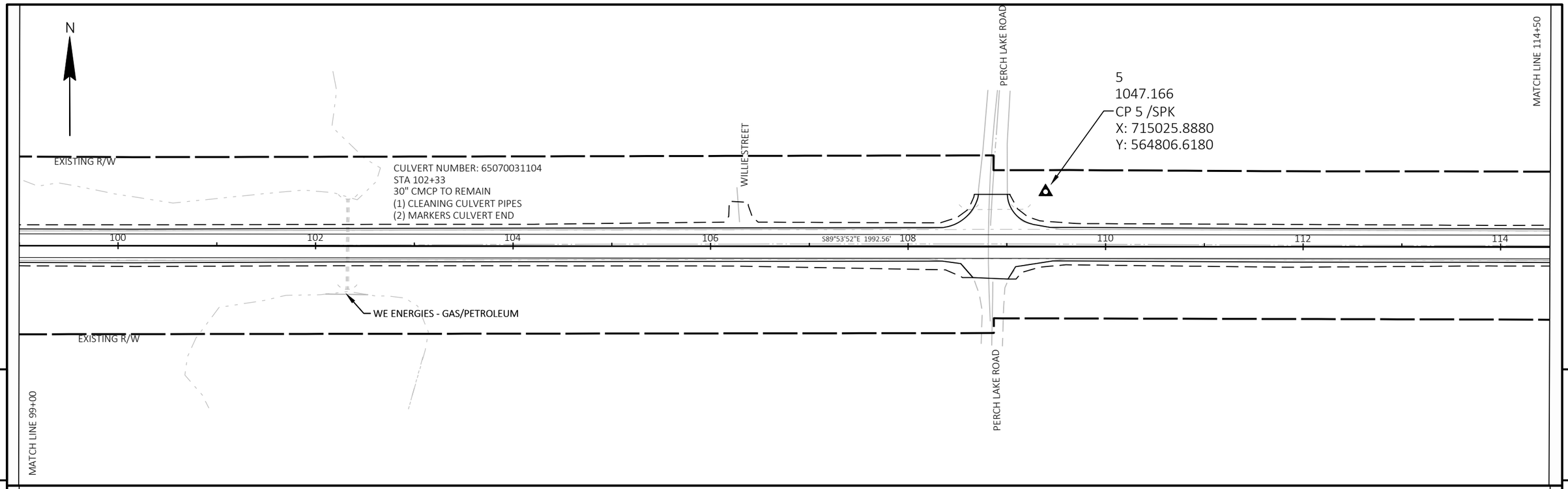
EXISTING R/W

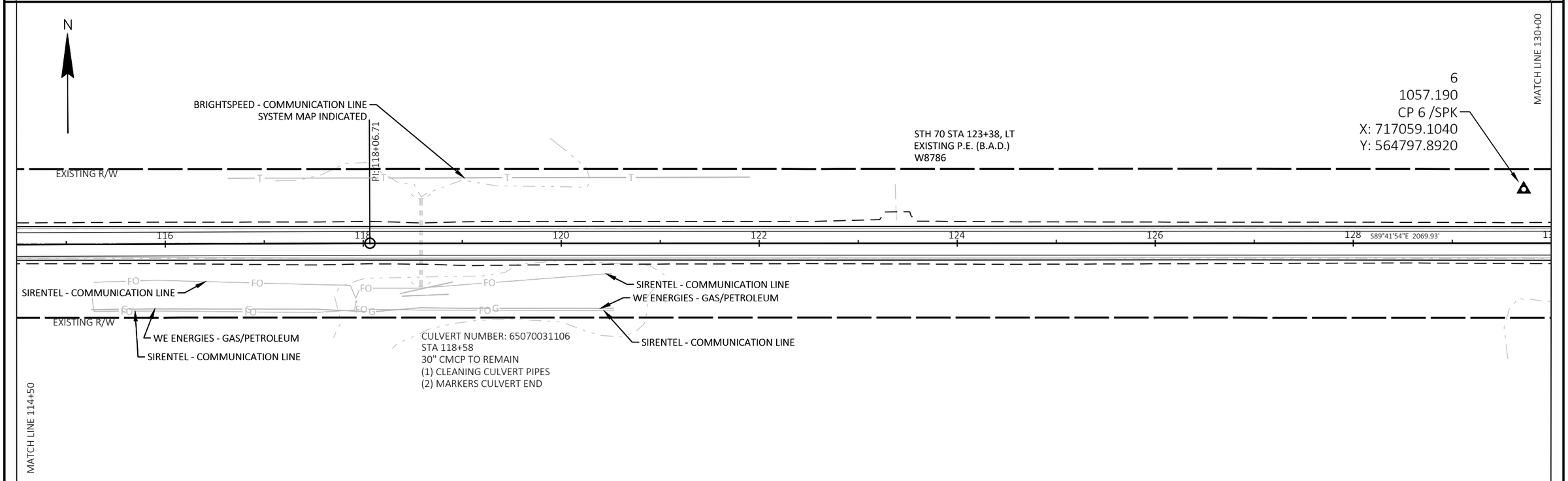
MATCH LINE 83+50

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 47	E

FILE NAME : N:\PDS\C3D\80500000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 03

PLOT DATE : 7/31/2026 3:37 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:100 FT





PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 48	E

FILE NAME : N:\PDS\C3D\80500000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 04
PLOT DATE : 7/31/2026 3:37 PM
PLOT BY : HAUSER, STEPHEN R
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

N

DAIRYLAND POWER COOPERATIVE - ELECTRICITY

TLE

OH OH OH

EXISTING R/W

PI: 138+76.65

KELLY ROAD

MATCH LINE 145+50

130 132 134 136 138 140 142 144

STH 70 STA 136+57, RT
EXISTING P.E. (B.A.D)
W8691

EXISTING R/W

WE ENERGIES - GAS/PETROLEUM

LILLY ROAD

CULVERT NUMBER: 65070031107
STA 131+57, 30" CMCP, 0.0065%
CLEANING CULVERT PIPES FOR LINER VERIFICATION
CULVERT PIPE LINER 30-INCH (94 FEET)
(2) MARKERS CULVERT END

MATCH LINE 130+00

5

5

N

7
1074.822
CP 7 /SPK
X: 719790.3100
Y: 564784.3990

MATCH LINE 161+00

DAIRYLAND POWER COOPERATIVE - ELECTRICITY

BRIGHTSPEED - COMMUNICATION LINE

HO HO

PC: 156+72.30

BARRON ELECTRIC COOPERATIVE - ELECTRICITY

OH OH

STH 70 STA 151+84, LT
EXISTING P.E. (B.A.D.)
W8566

STH 70 STA 145+90, LT
EXISTING P.E. (B.A.D.)
W8168

EXISTING R/W

146 S89°42'10"E 1795.65' 148 150 152 154 156 158 160

STA 146+53, RT
EXISITING P.E. (B.A.D.)
W8611

WE ENERGIES - GAS/PETROLEUM

CULVERT NUMBER: 65070031108
STA 148+61
EXISTING 24" CMCP TO REMAIN
(1) CLEANING CULVERT PIPES
(2) MARKERS CULVERT END

STH 70 STA 152+86, RT
EXISTING P.E. (B.A.D.)
W8565

EXISTING R/W

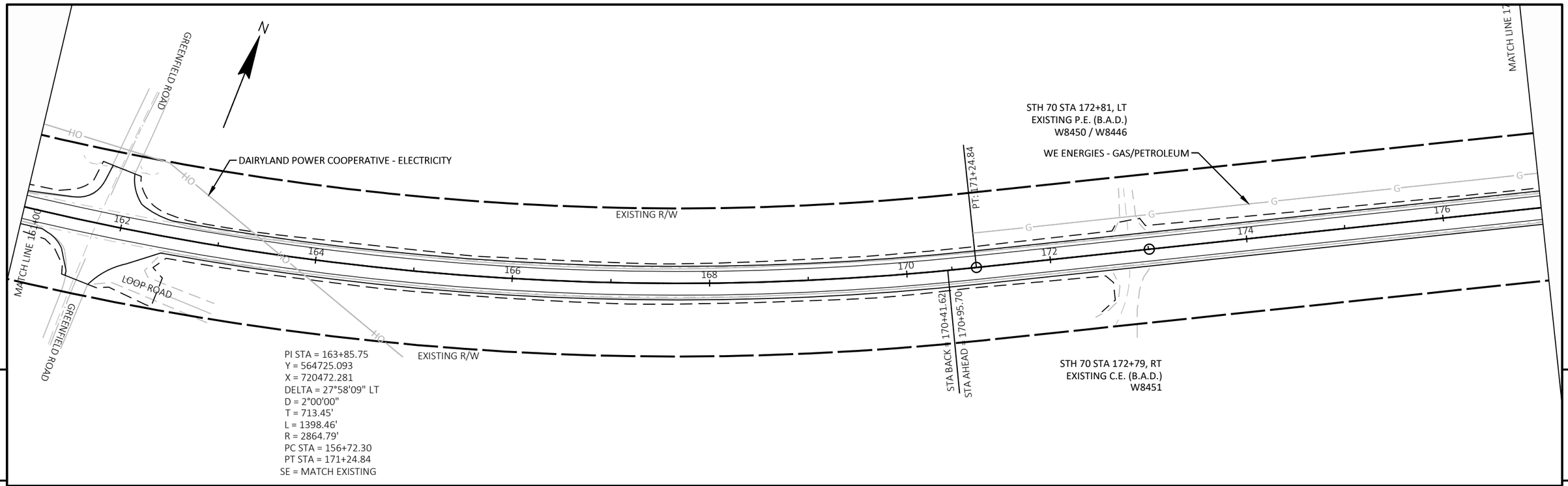
STH 70 STA 157+16, RT
EXISTING P.E. (B.A.D.)
W8533

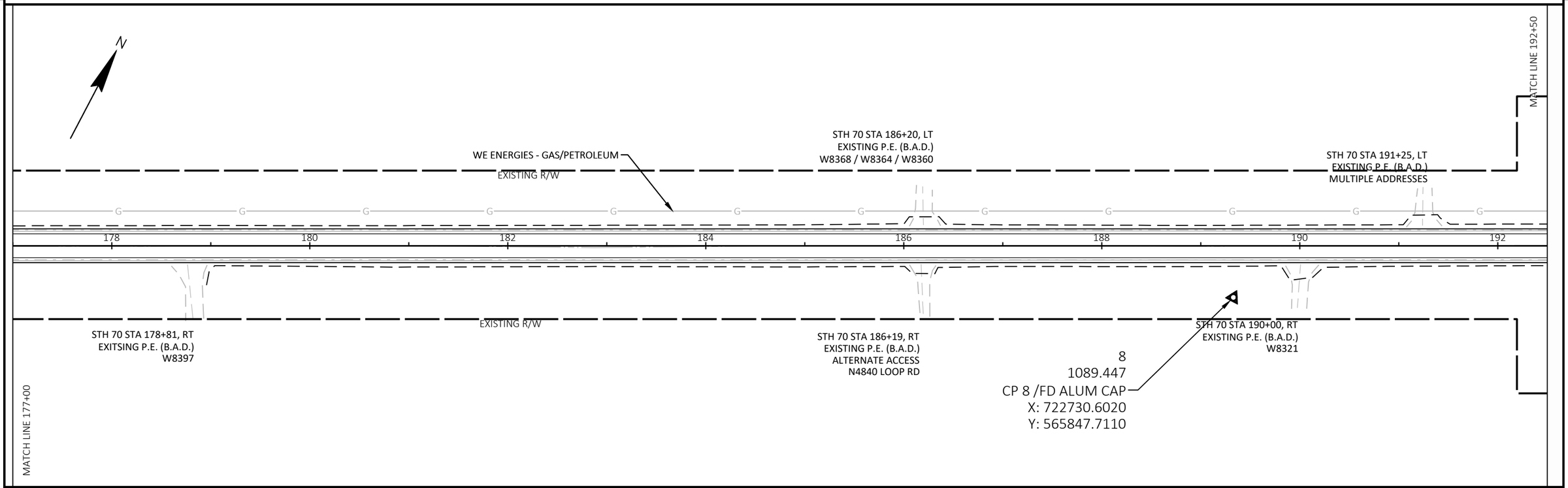
WE ENERGIES - GAS/PETROLEUM

CULVERT NUMBER: 65070031109
STA 160+08
EXISITING 30" CMCP TO REMAIN
(1) CLEANING CULVERT PIPES
(2) MARKERS CULVERT END

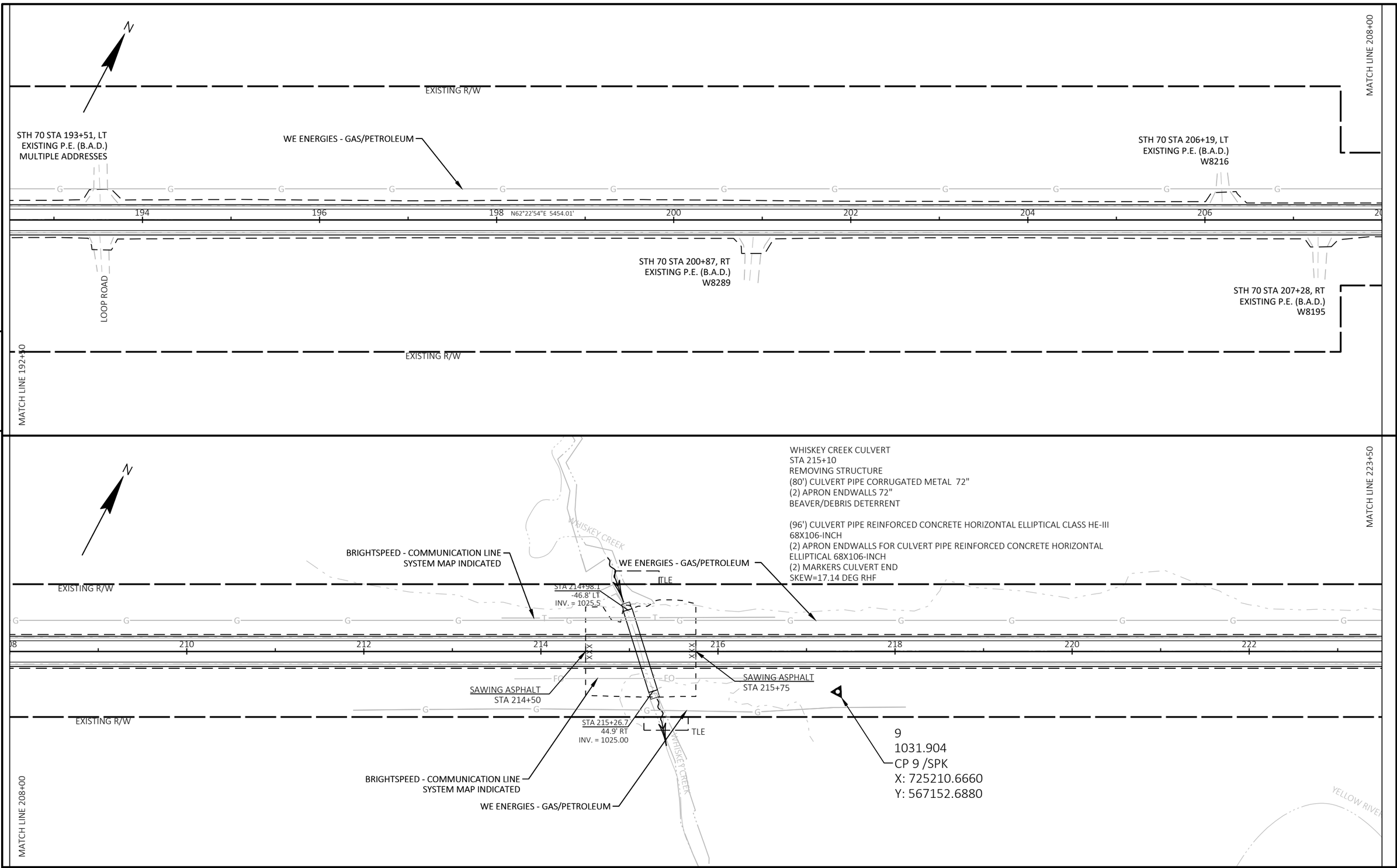
MATCH LINE 145+50

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 49	E

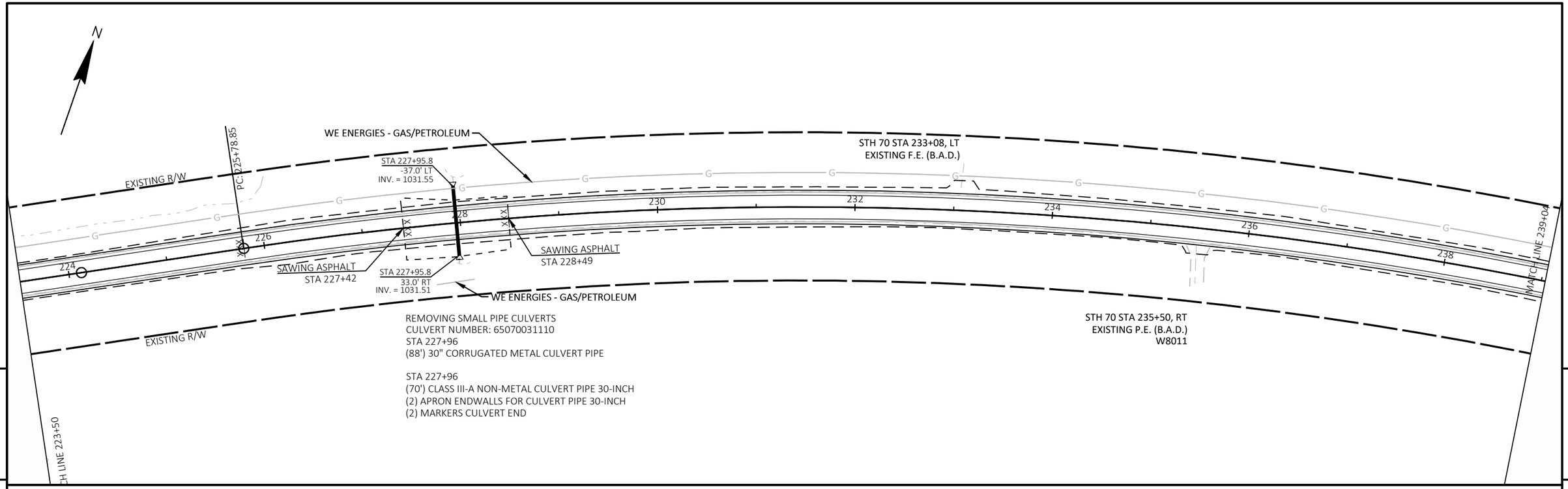




PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 50	E



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 51	E



PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 52	E

FILE NAME : N:\PDS\C3D\80500000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 08

PLOT DATE : 7/31/2026 3:38 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:100 FT

REMOVING STRUCTURE
DAGO CREEK CULVERT
STA 263+38
(80') 72" CORRUGATED METAL CULVERT PIPE

STA 263+26
(104') CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 63X98-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 63X98-INCH
(2) MARKERS CULVERT END REQ.
SKEW=23.69 DEG RHF

STA 262+00 - 264+00 CLEARING & GRUBBING
TLE

BRIGHTSPEED - COMMUNICATION LINE SYSTEM MAP INDICATED

BRIGHTSPEED - COMMUNICATION LINE SYSTEM MAP INDICATED

MATCH LINE 270+80

EXISTING R/W

WE ENERGIES - GAS/PETROLEUM

STA 263+04.03
-51.28' LT
INV. = 1031.50

SAWING ASPHALT
STA 263+91

STH 70 STA 264+14, LT
EXISTING P.E. (B.A.D.)
W7808

STH 70 STA 266+85, LT
EXISTING P.E. (B.A.D.)
W7786

PI: 268+82.81

256 258 260 S76°54'30"E 1511.51' 262 264 266 268 270

STA 260+57.22
19.00' RT

STA 261+36.29
17.00' RT

STA 261+76.29
26.94' RT

STA 262+01.27
24.33' RT

STA 262+26.25
23.06' RT

SAWING ASPHALT
STA 262+70

STA 263+04.37
23.00' RT

STA 263+45.82
43.69' RT
INV. = 1031.00

STA 264+04.38
21.00' RT

STA 264+19.98
23.07' RT

STA 264+44.95
24.49' RT

STA 264+69.92
27.24' RT

STA 265+15.57
17.00' RT

STA 266+05.04
19.00' RT

EXISTING R/W

STH 70 STA 269+21, RT
EXISTING P.E. (B.A.D.)
W7767

MGS GUARDRAIL TERMINAL EAT, STA 261+76.3 - 262+29.4 RT
MGS GUARDRAIL 3, STA 262+29.4 - 263+04.4 RT
MGS GUARDRAIL 3 K, STA 263+04.4 - 264+16.9 RT
MGS GUARDRAIL TERMINAL EAT, STA 264+16.9 - 264+70 RT

WE ENERGIES - GAS/PETROLEUM

DAGO CREEK

YELLOW RIVER

YELLOW RIVER

TOZER ROAD

MATCH LINE 255+30

5

5

EXISTING R/W

MATCH LINE 286+30.01

STH 70 STA 278+99, LT
EXISTING P.E. (B.A.D.)
W7698

WE ENERGIES - GAS/PETROLEUM

STA 281+77
-59.8' LT
INV. = 1040.663

PC: 282+20.27

STH 70 STA 282+54 LT P.E.
W7674

SAWING ASPHALT
STA 281+01

272 274 S76°56'37"E 1337.46' 276 278 280 282 284 286

STH 70 STA 277+60, RT
EXISTING P.E. (B.A.D.)
W7715

STA 281+33.5
58.5' RT
INV. = 1040.398

SAWING ASPHALT
STA 282+07

STH 70 STA 283+15 RT P.E.
W7661

WE ENERGIES - GAS/PETROLEUM

EXISTING R/W

CULVERT NUMBER: 65070031112
STA 271+77
EXISTING 30" CMCP TO REMAIN
(1) CLEANING CULVERT PIPES
(2) MARKERS CULVERT END

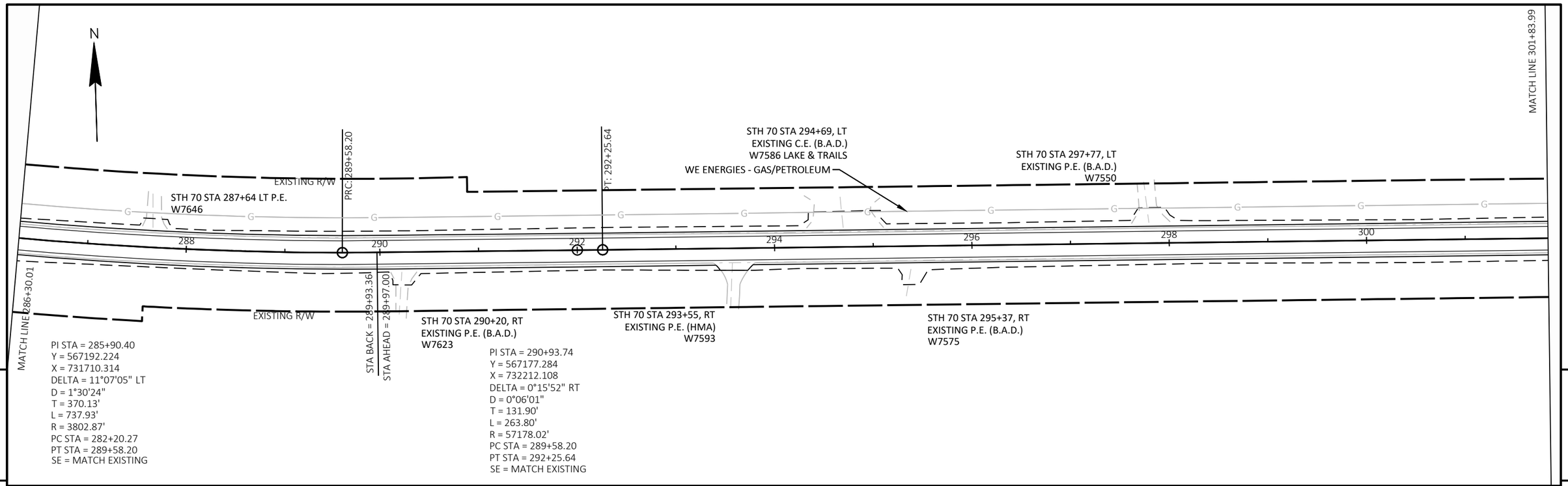
11
1050.906
CP 11 /SPK
X: 730643.0370
Y: 567388.5590

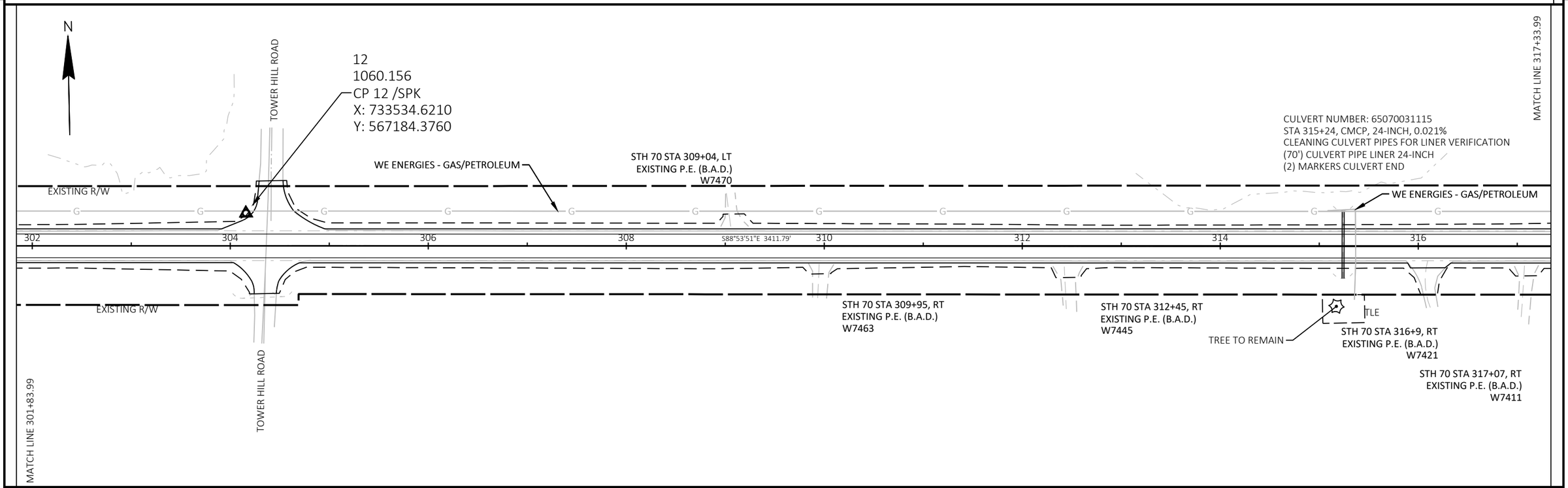
REMOVING SMALL PIPE CULVERTS
CULVERT NUMBER: 65070031113
STA 281+54
(132') 24" CORRUGATED METAL CULVERT PIPE

STA 281+54
(126') CLASS III-A NON-METAL CULVERT PIPE 30-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE 30-INCH
(2) MARKERS CULVERT END
SKEW = 20 DEG LHF

MATCH LINE 270+80

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 53	E



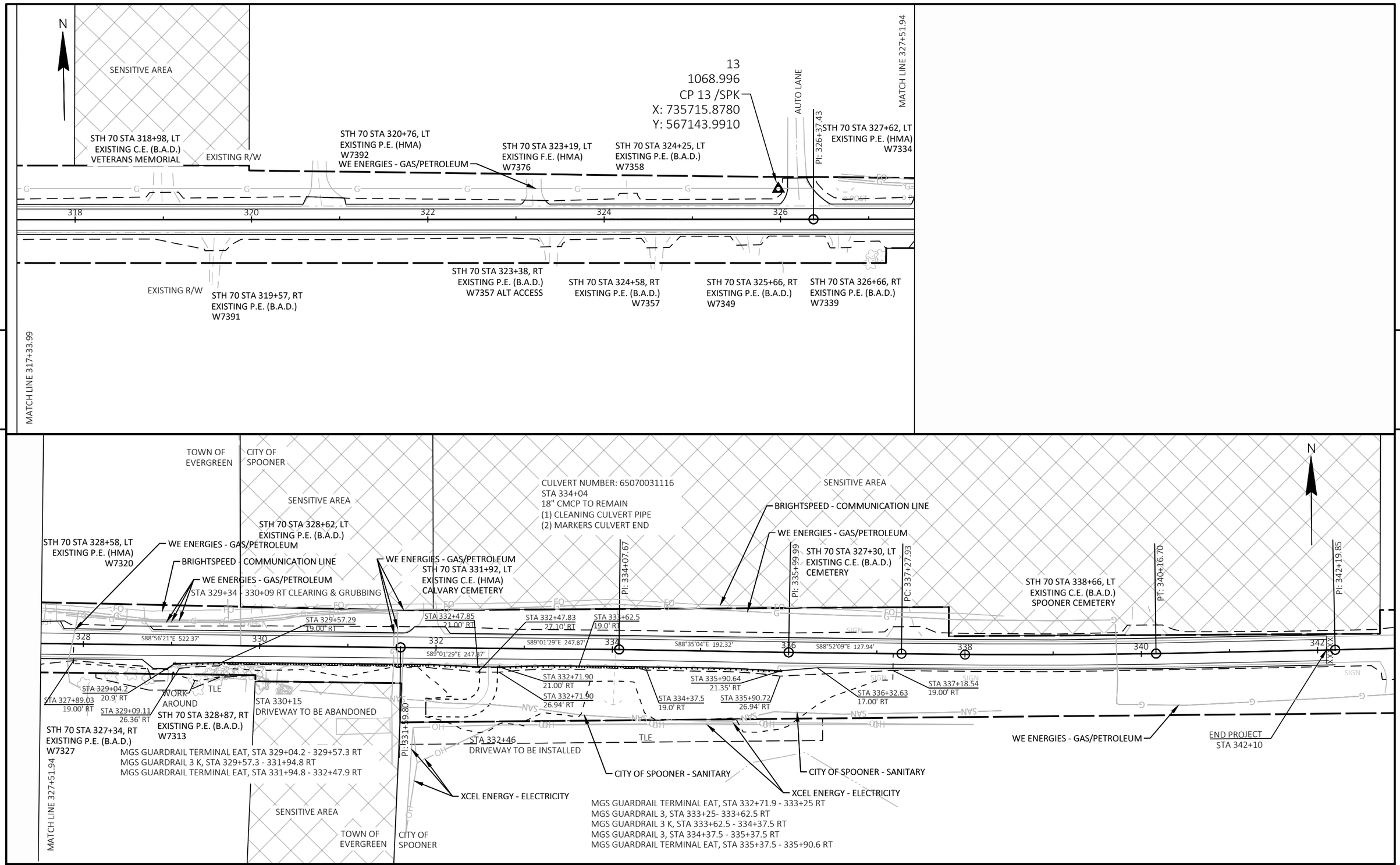


PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 54	E

FILE NAME : N:\PDS\C3D\80500000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 10

PLOT DATE : 7/31/2026 3:38 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



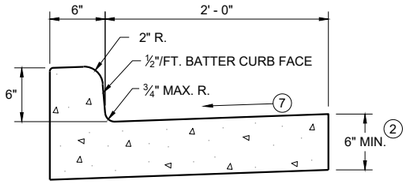
PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	PLAN SHEETS	SHEET 55	E

FILE NAME : N:\PDS\C3D\80500000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 11
PLOT DATE : 7/31/2026 3:38 PM
PLOT BY : HAUSER, STEPHEN R
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

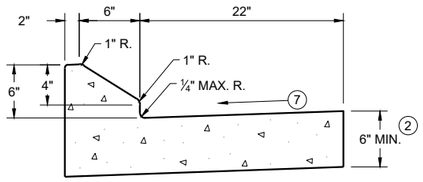
Standard Detail Drawing List

08D01-24A	CONCRETE CURB AND 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
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
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL 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
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)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-08E	DELINEATOR POST WITH REFLECTIVE SHEETING
15C02-10A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-10B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-10C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-10F	ADVANCED WIDTH RESTRICTION SIGNING
15C02-10H	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
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C11-11B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15C19-11A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D28-06	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

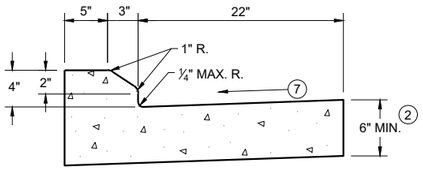
6



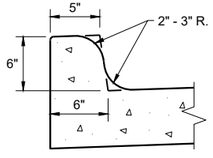
TYPES A (1) & D



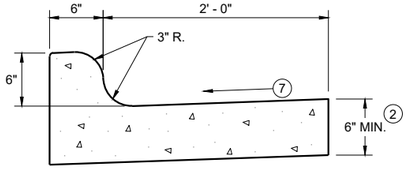
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

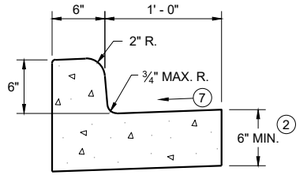


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



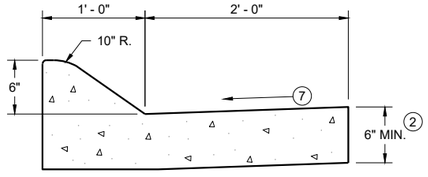
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

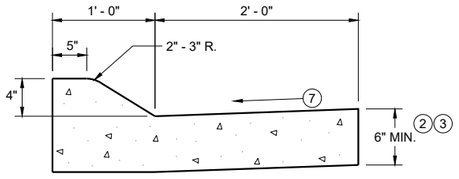


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

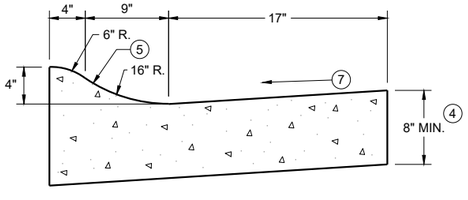


6" SLOPED CURB TYPES A (1) & D



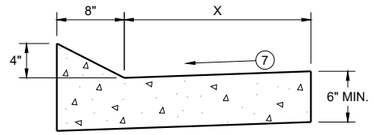
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T
CONCRETE CURB AND GUTTER 30"

TBT & TBTT	X
30"	22"
36"	28"

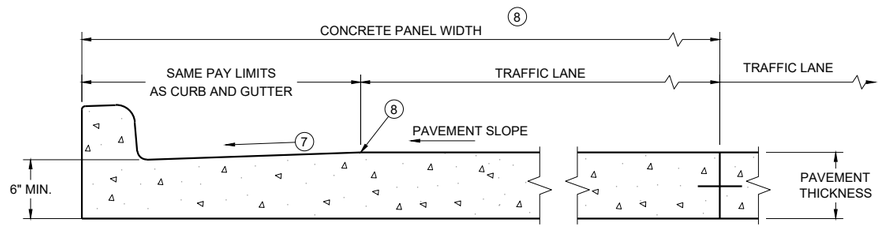


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

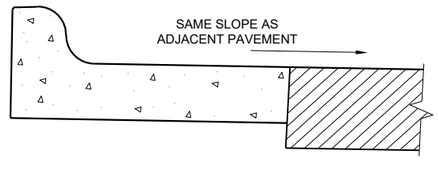
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

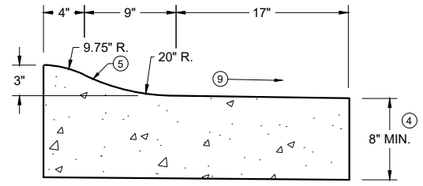
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(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.

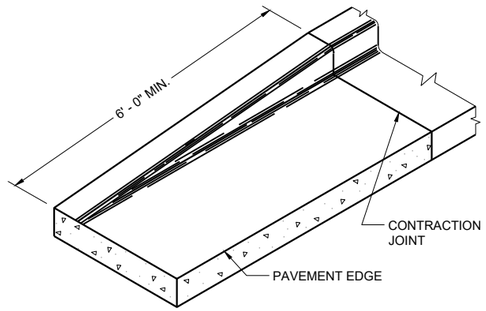
(9) SLOPE TO BE REVERSE SLOPE MATCHING THE SLOPE OF THE PAVEMENT AND THE CIRCULATORY ROADWAY



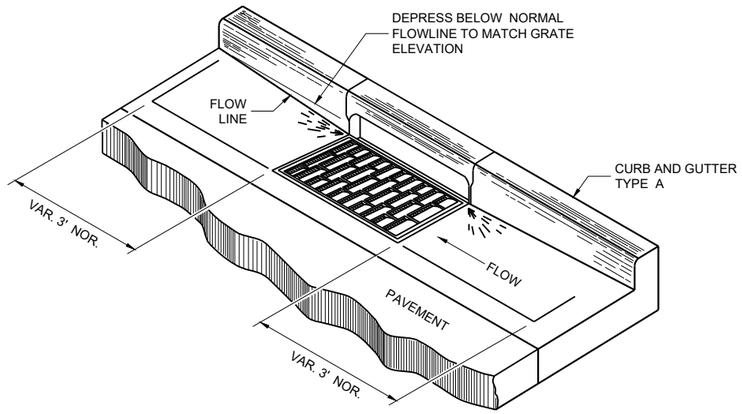
3" SLOPED CURB TYPES R (1) & T

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.

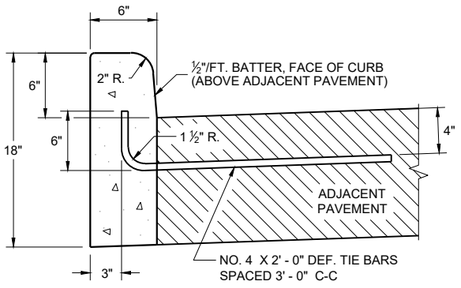
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

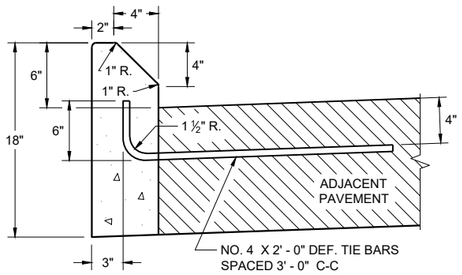
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(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.

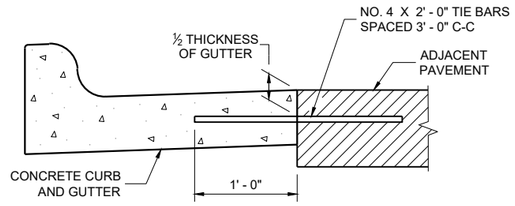


TYPES A (1) & D

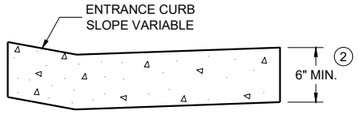


TYPES G (1) & J

CONCRETE CURB

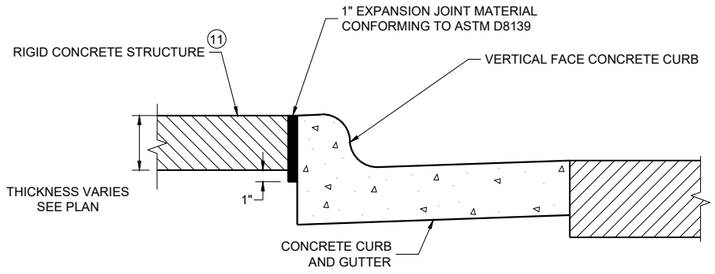


TYPICAL TIE BAR LOCATION (1)

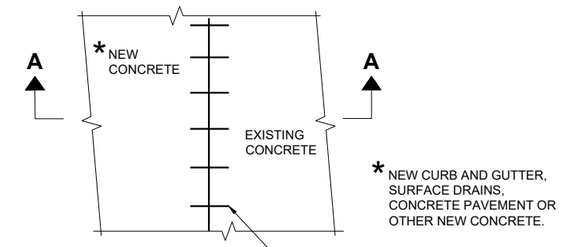


DRIVEWAY ENTRANCE CURB (10)

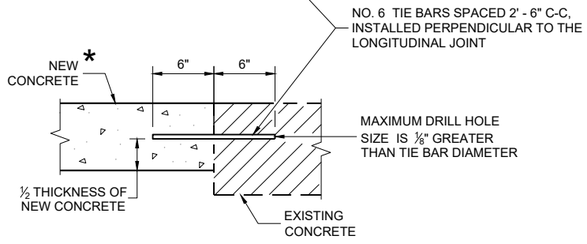
(WHEN DIRECTED BY THE ENGINEER)



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

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SDD 08D01-24b

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)

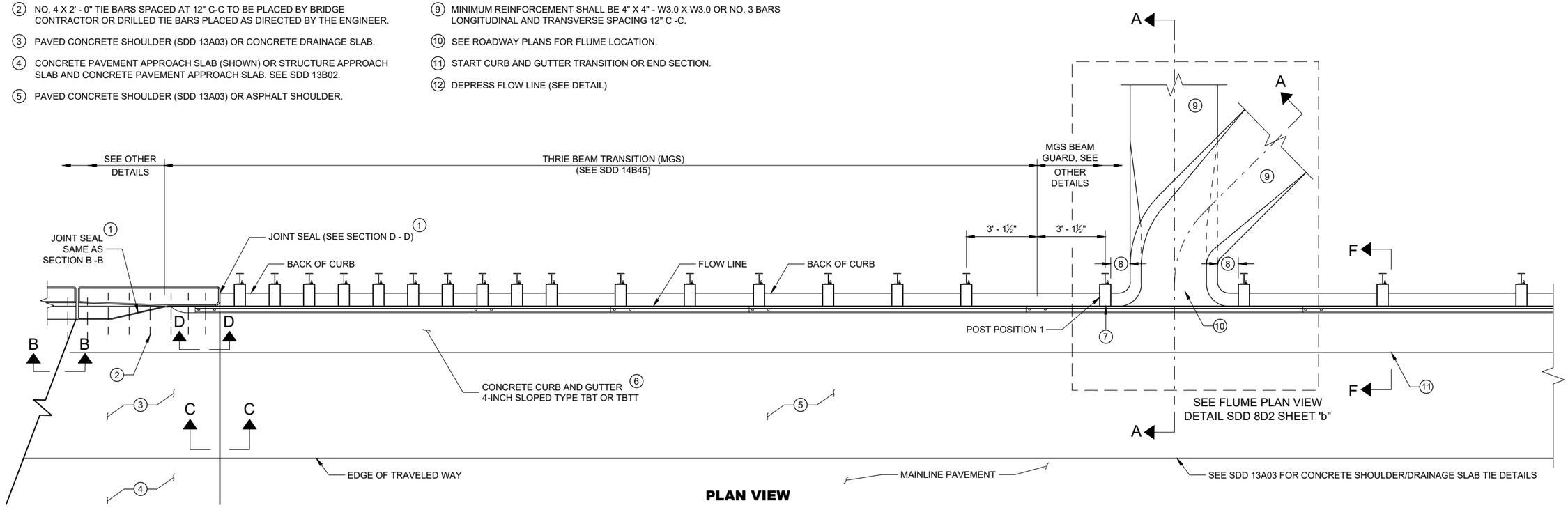
(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

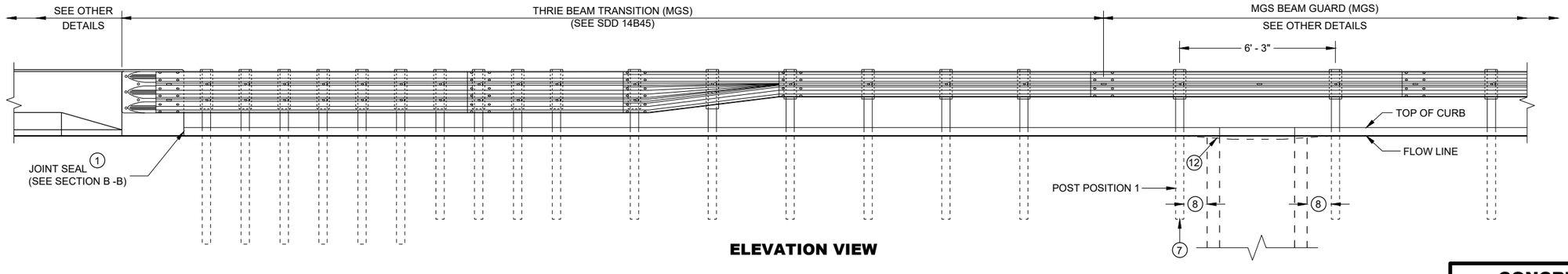
(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)



PLAN VIEW



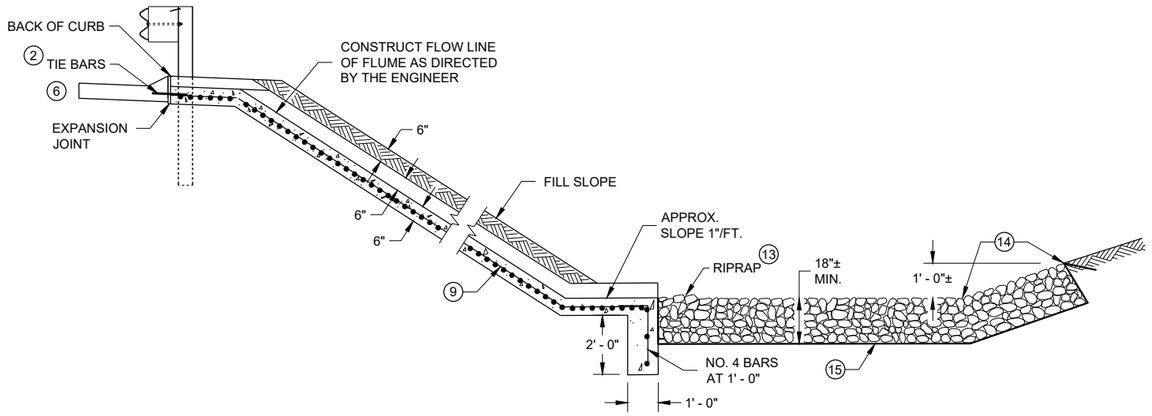
ELEVATION VIEW

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

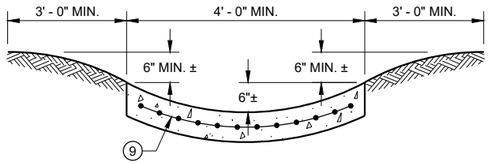
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D02 - 08a

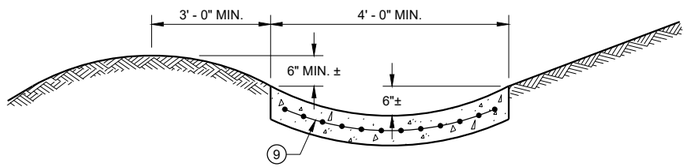
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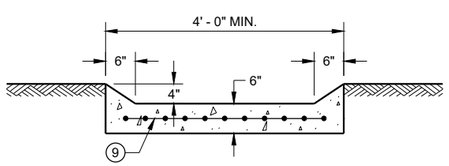
SECTION A - A



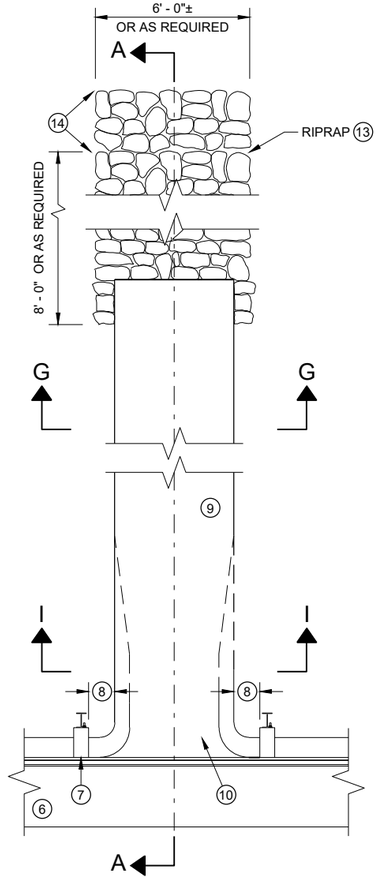
SECTION G - G



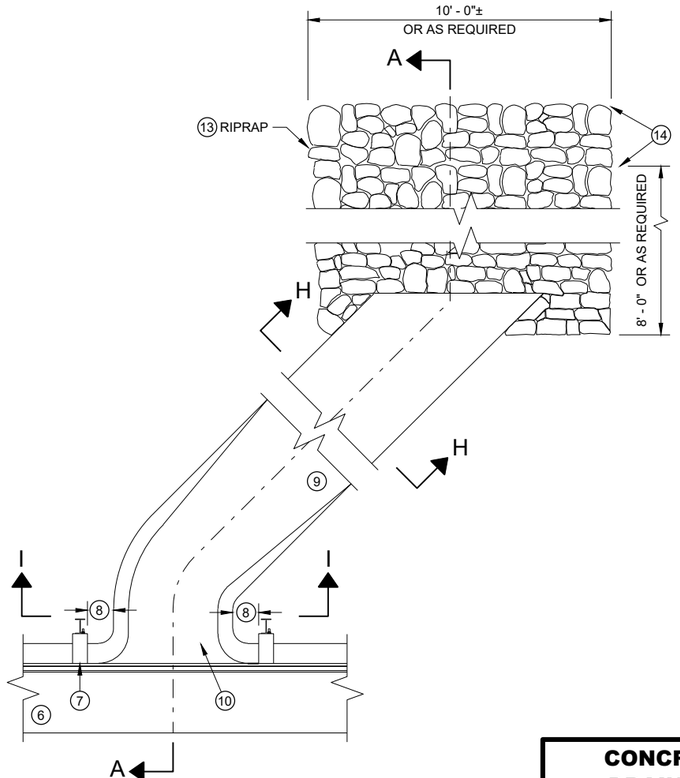
SECTION H - H



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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

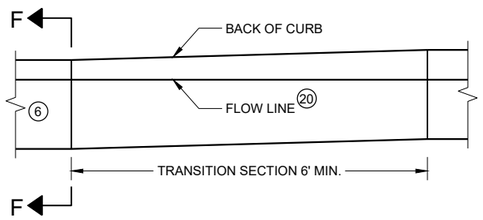
1. USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
2. NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
3. PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
4. CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
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)
13. MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
14. LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH AS REQUIRED.
15. GEOTEXTILE TYPE HR.

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

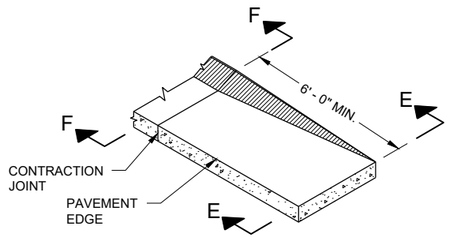
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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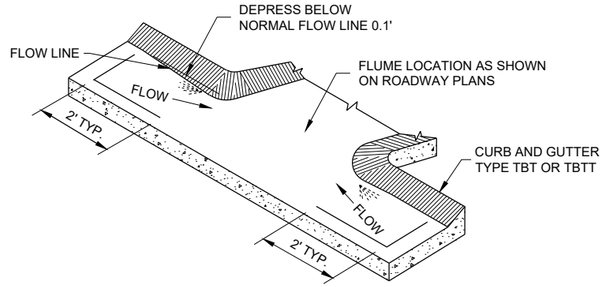
SDD 08D02 - 08b



**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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(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.

(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)

(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.

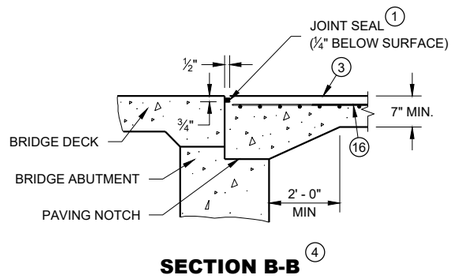
(17) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

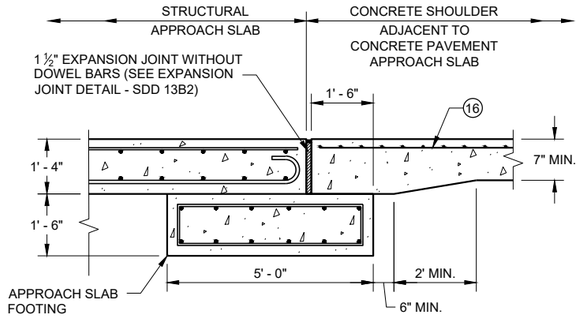
(19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

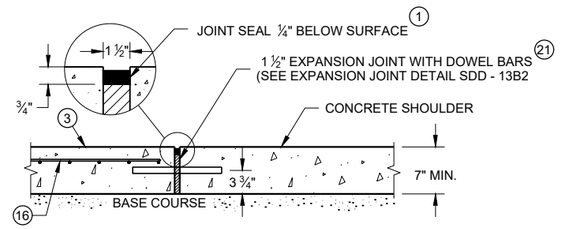
(21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



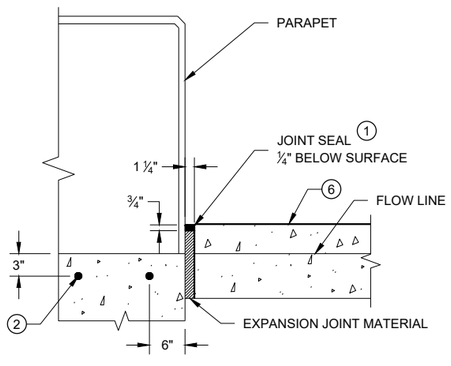
SECTION B-B



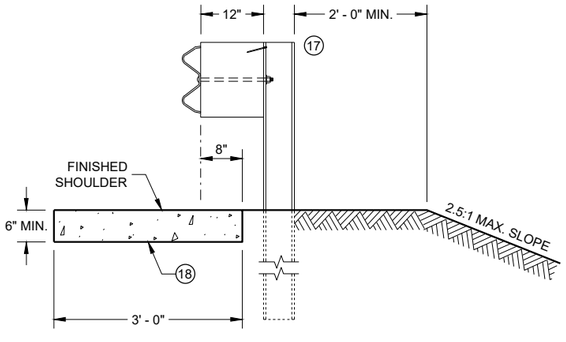
SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



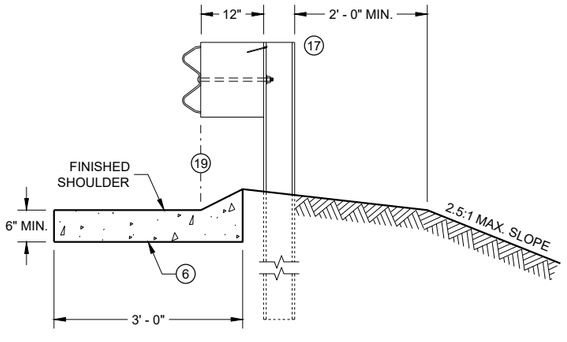
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION D - D



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

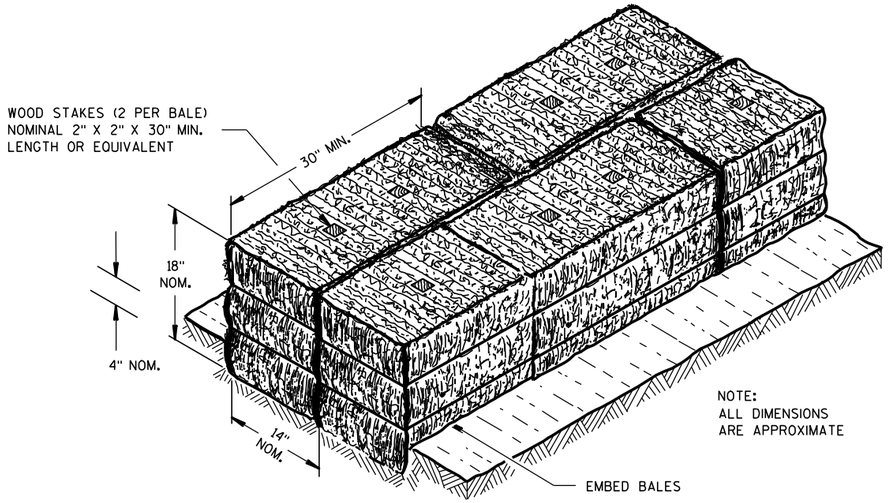
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

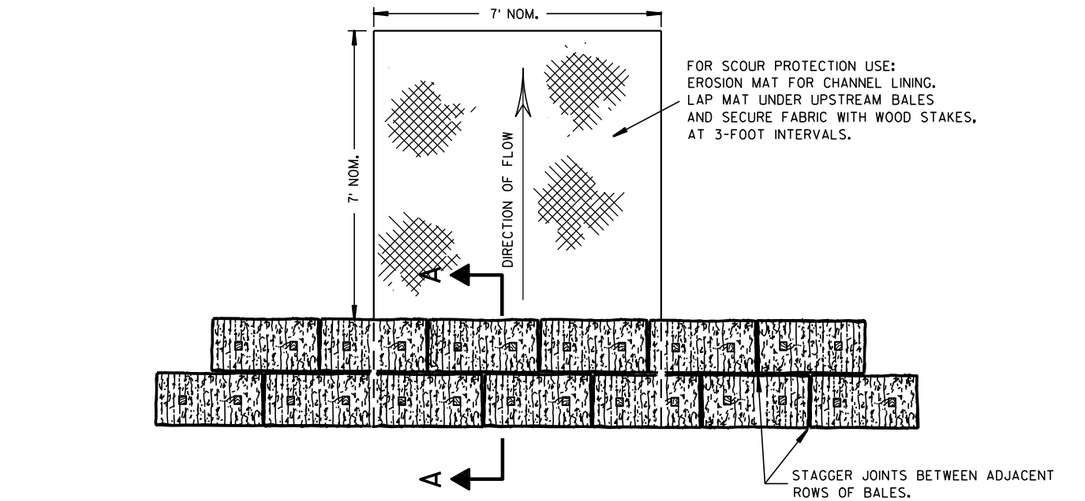
FHWA

SDD 08D02 - 08c

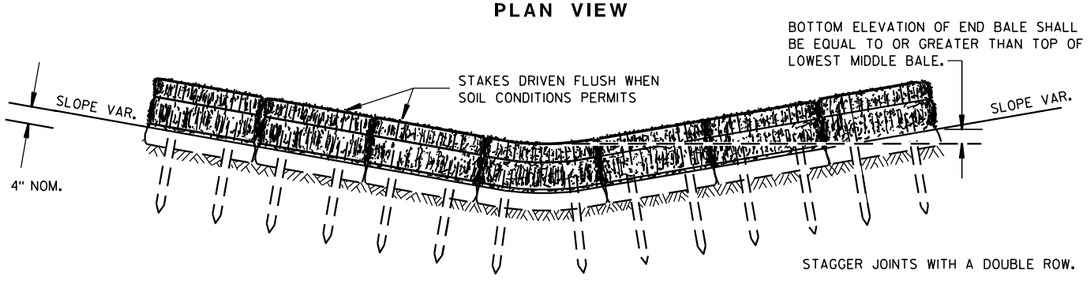
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SECTION A-A



PLAN VIEW



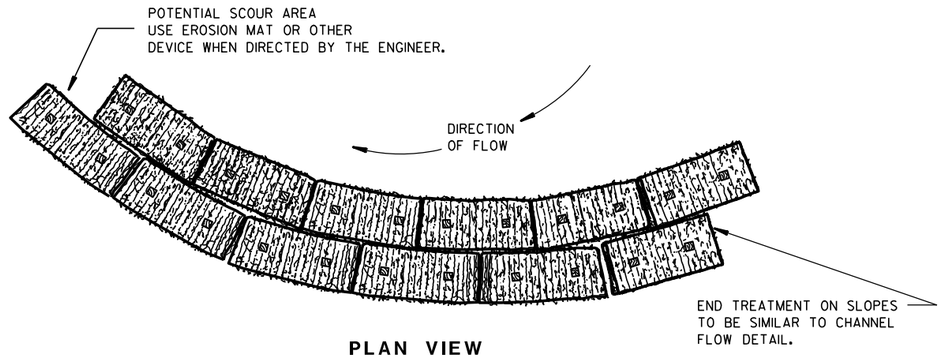
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

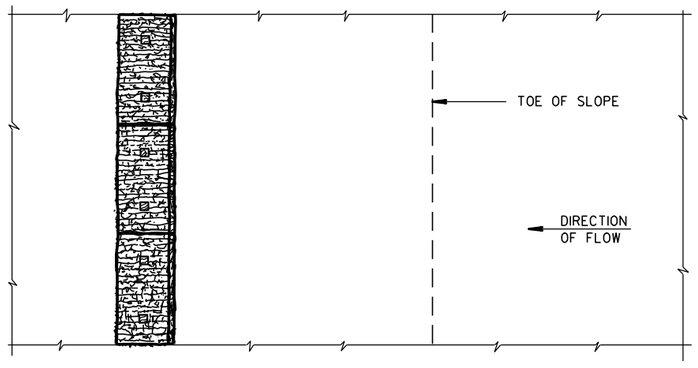
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

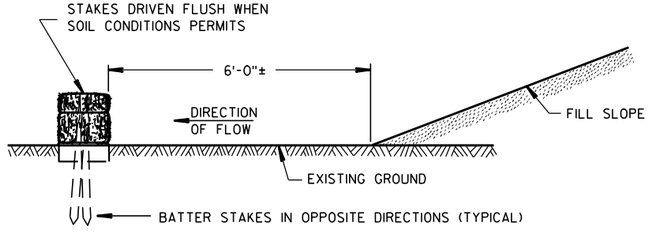


PLAN VIEW

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

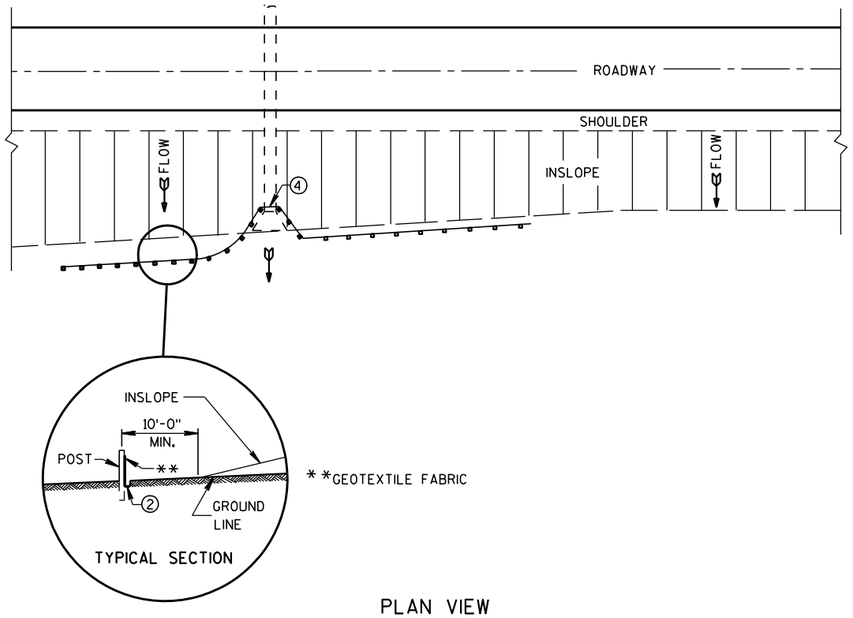
FHWA

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S.D.D. 8 E 8-3

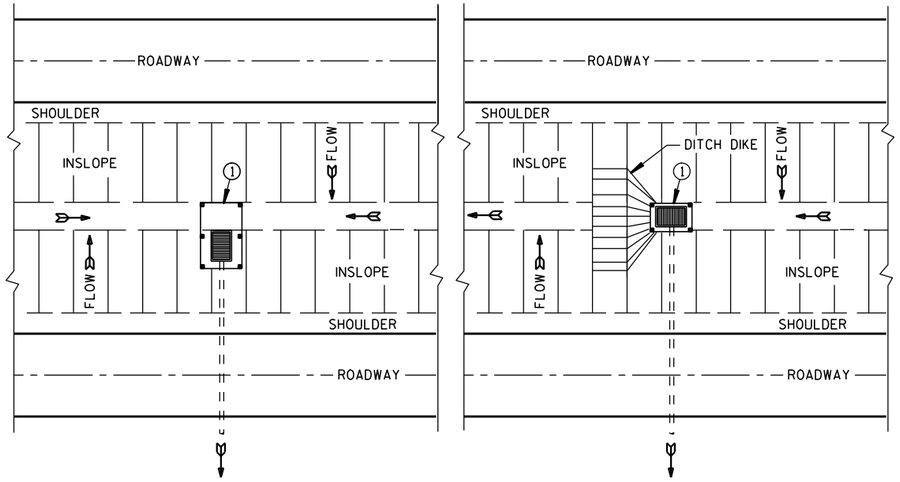
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S.D.D. 8 E 8-3



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.

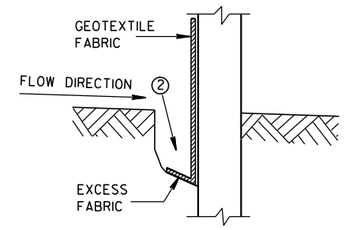
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

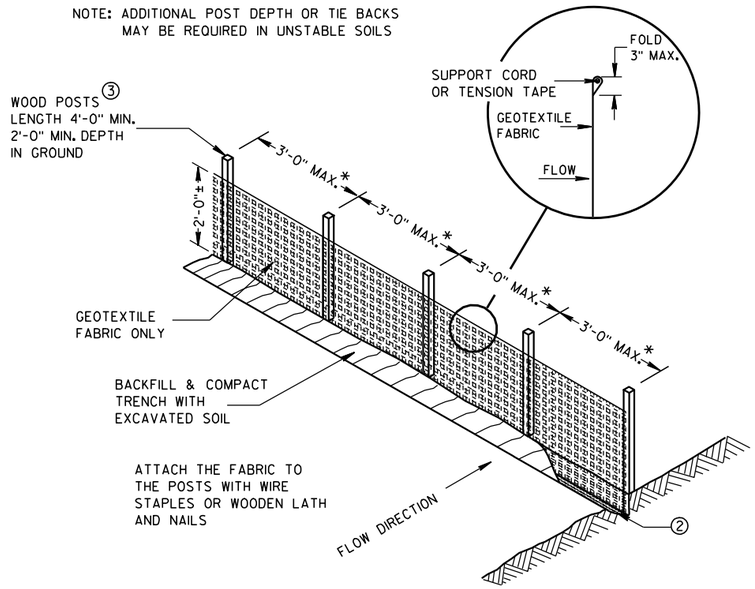
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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.

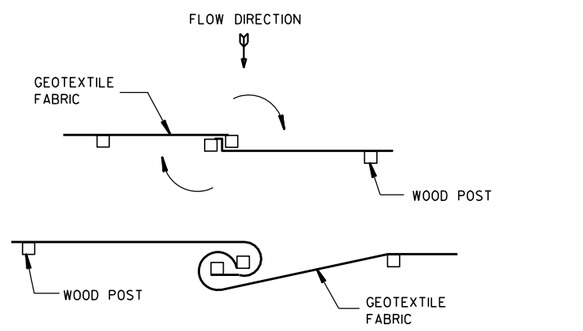


TRENCH DETAIL

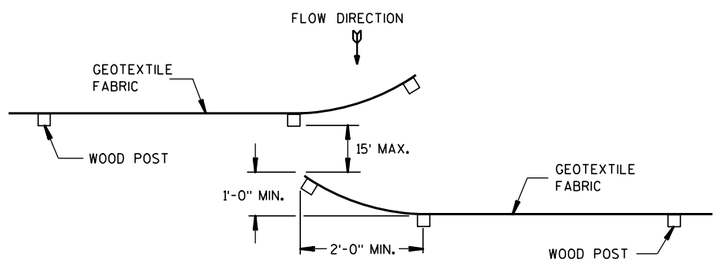


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

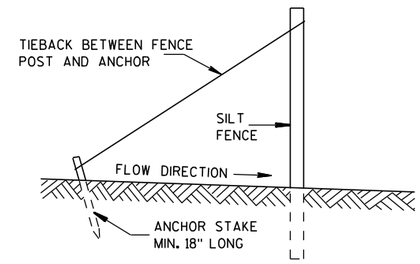


TWIST METHOD



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

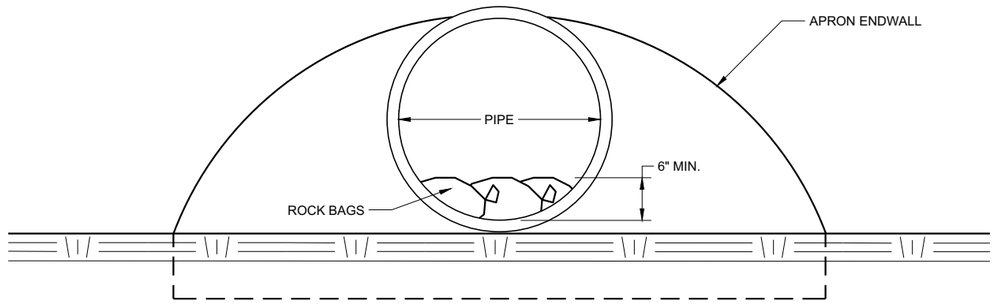
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

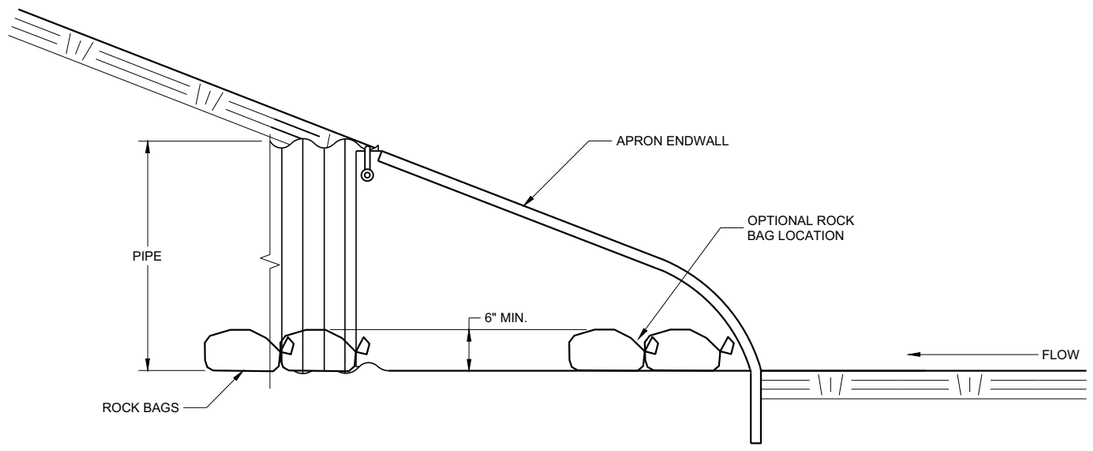
S.D.D. 8 E 9-6

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

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

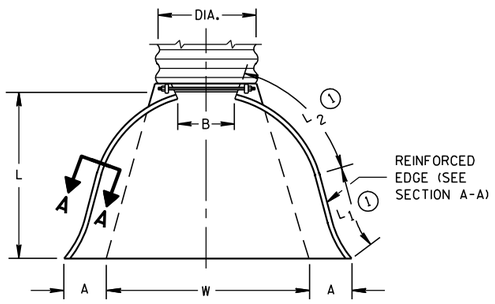
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

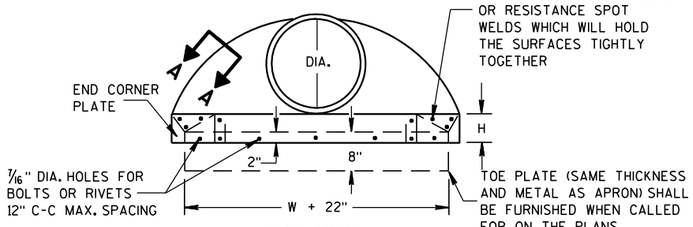
REINFORCED CONCRETE APRON ENDWALLS

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

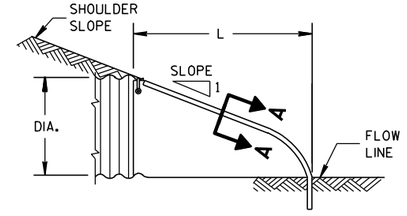
*MINIMUM
**MAXIMUM



PLAN VIEW

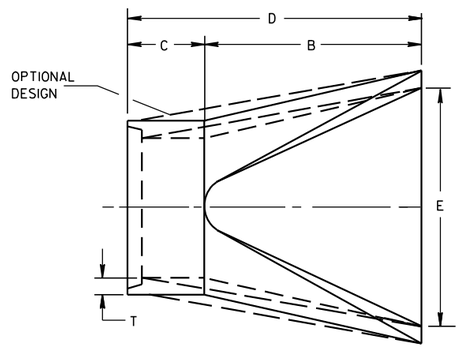


END VIEW

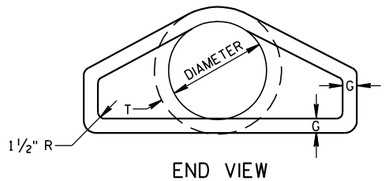


SIDE ELEVATION

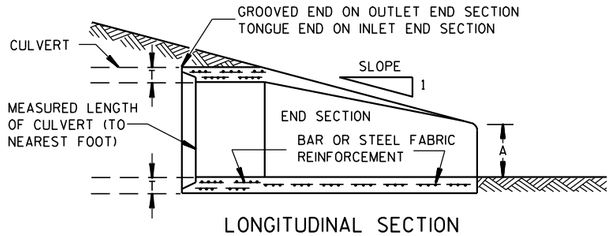
METAL ENDWALLS



PLAN

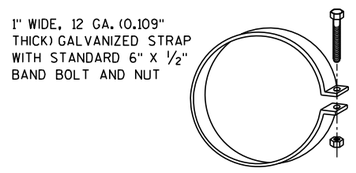


END VIEW



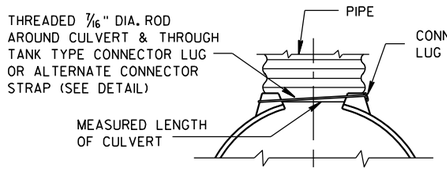
LONGITUDINAL SECTION

CONCRETE ENDWALLS

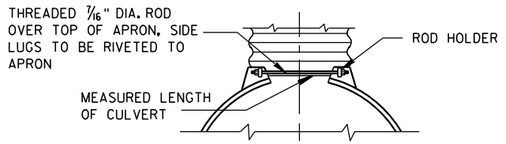


ALTERNATE FOR TYPE 1 CONNECTION

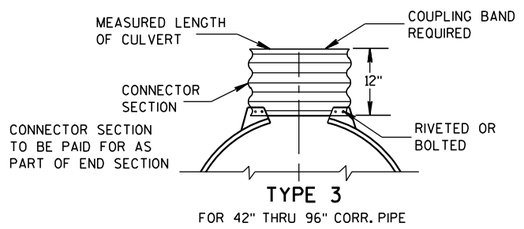
END SECTION CONNECTOR STRAP



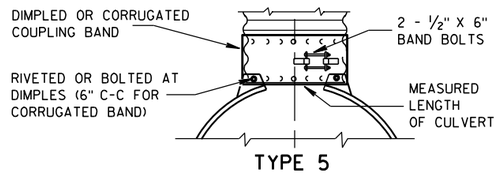
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

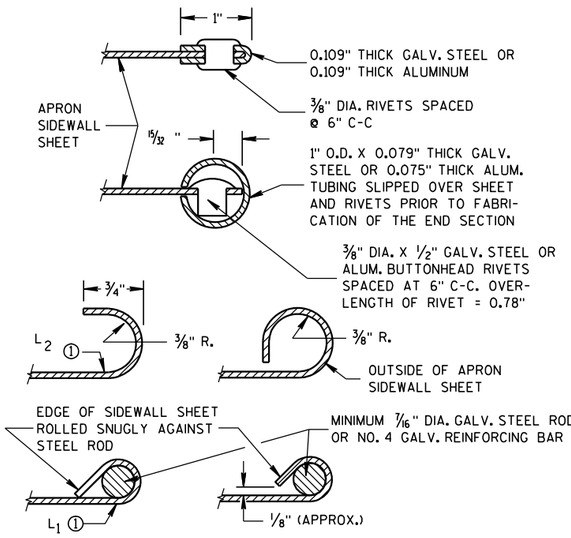
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

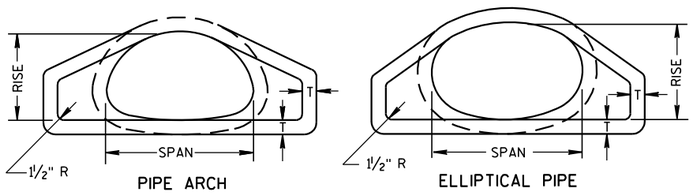
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

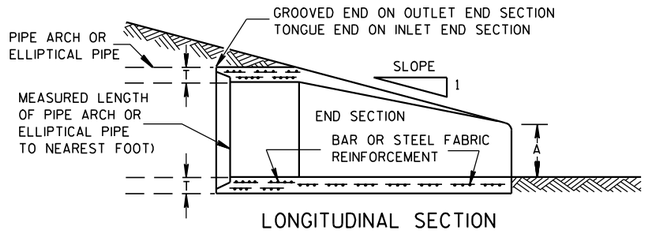
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 65 NEER
FHWA

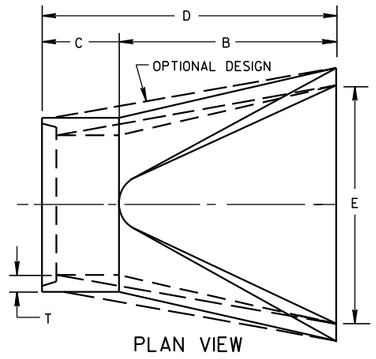
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S.D.D. 8 F 1-11



END VIEW

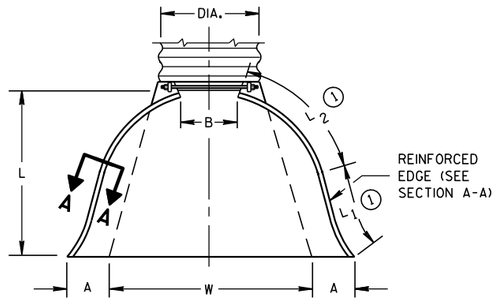


LONGITUDINAL SECTION

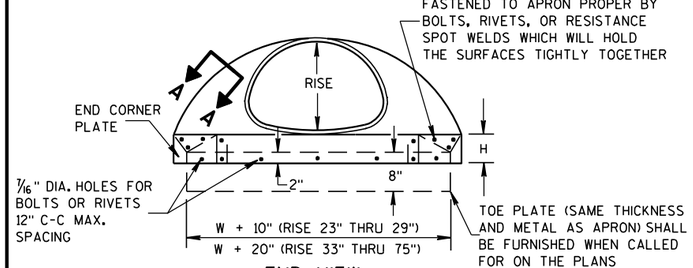


PLAN VIEW

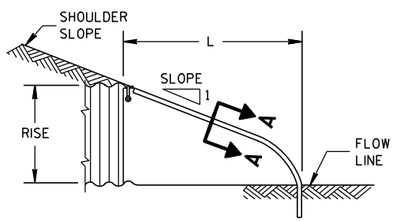
CONCRETE ENDWALLS



PLAN VIEW



END VIEW



SIDE ELEVATION

METAL ENDWALLS

SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

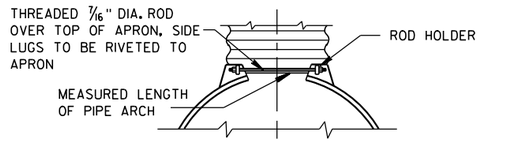
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

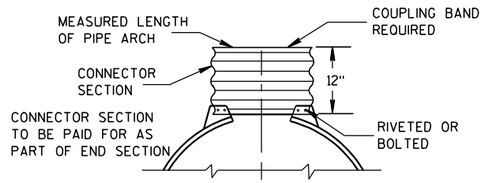
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



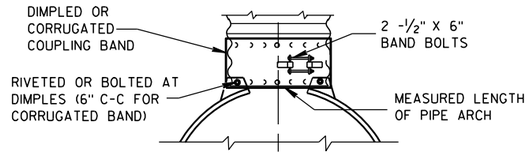
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH 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 ARCH 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 77" X 52" THROUGH 112" X 75" 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 ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

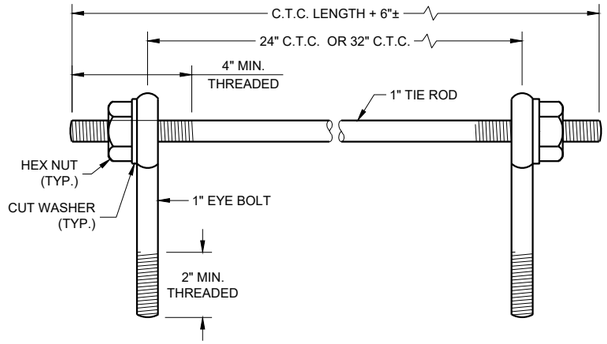
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

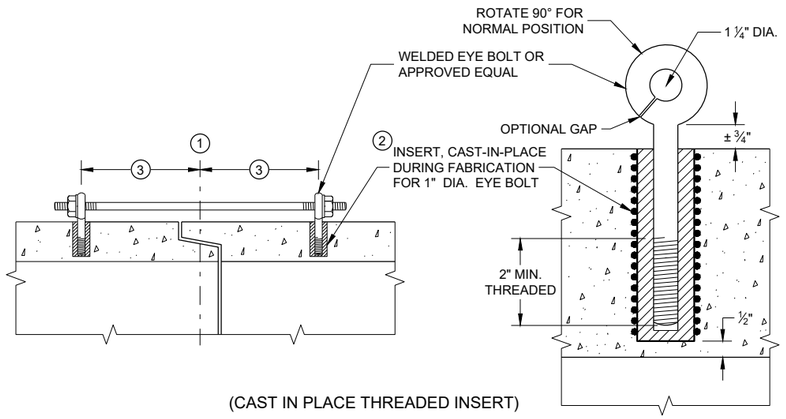
FHWA

S.D.D. 8 F 2-1

S.D.D. 8 F 2-1



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.

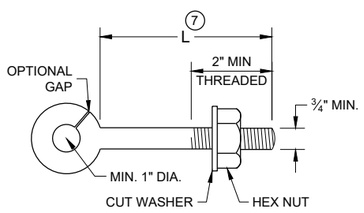
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

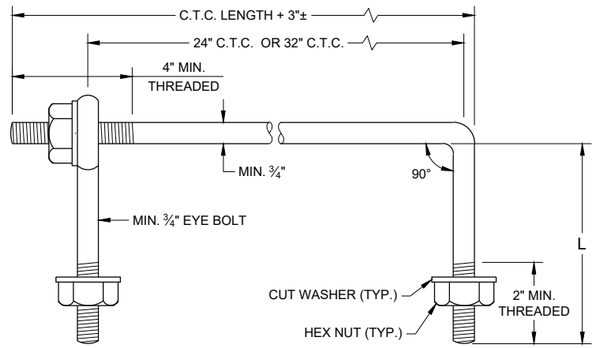
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

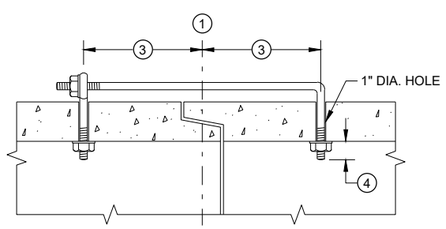


EYE BOLT (7)

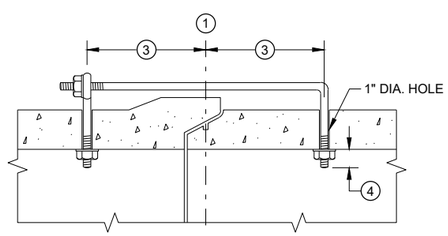
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

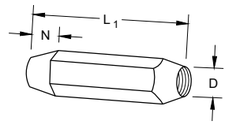
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

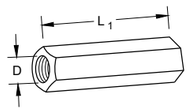
ADJUSTABLE TIE ROD TABLE

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



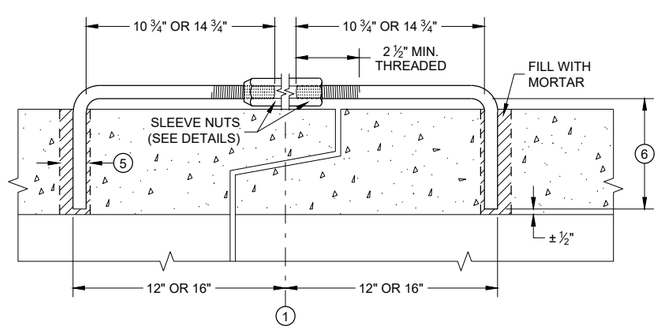
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PLAIN

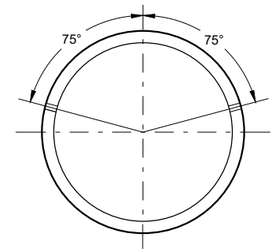
RIGHT AND LEFT THREADS

SLEEVE NUTS



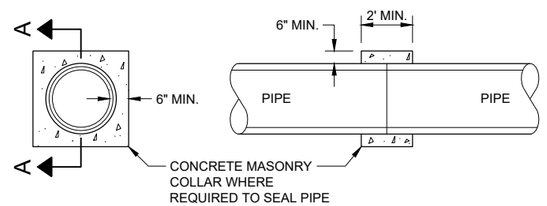
LONGITUDINAL SECTION

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

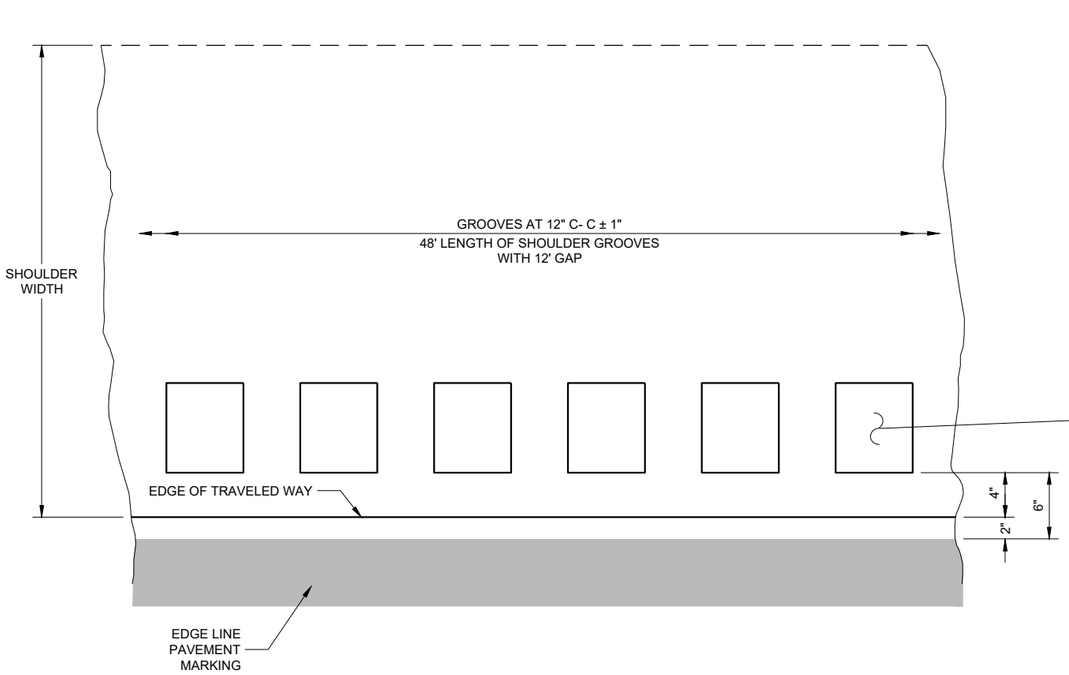
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

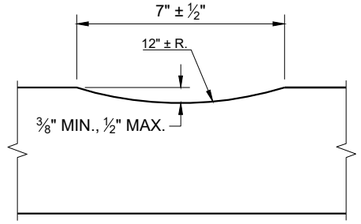
FHWA

SDD 08F04 - 08

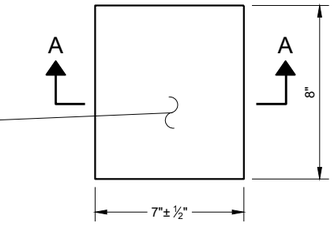
SDD 08F04 - 08



PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A

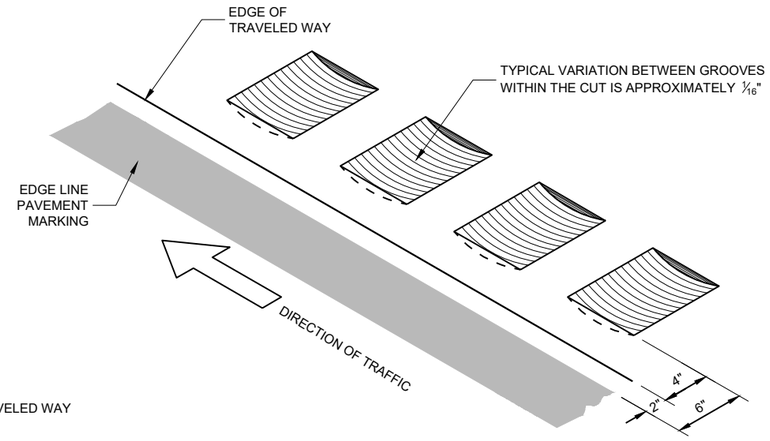


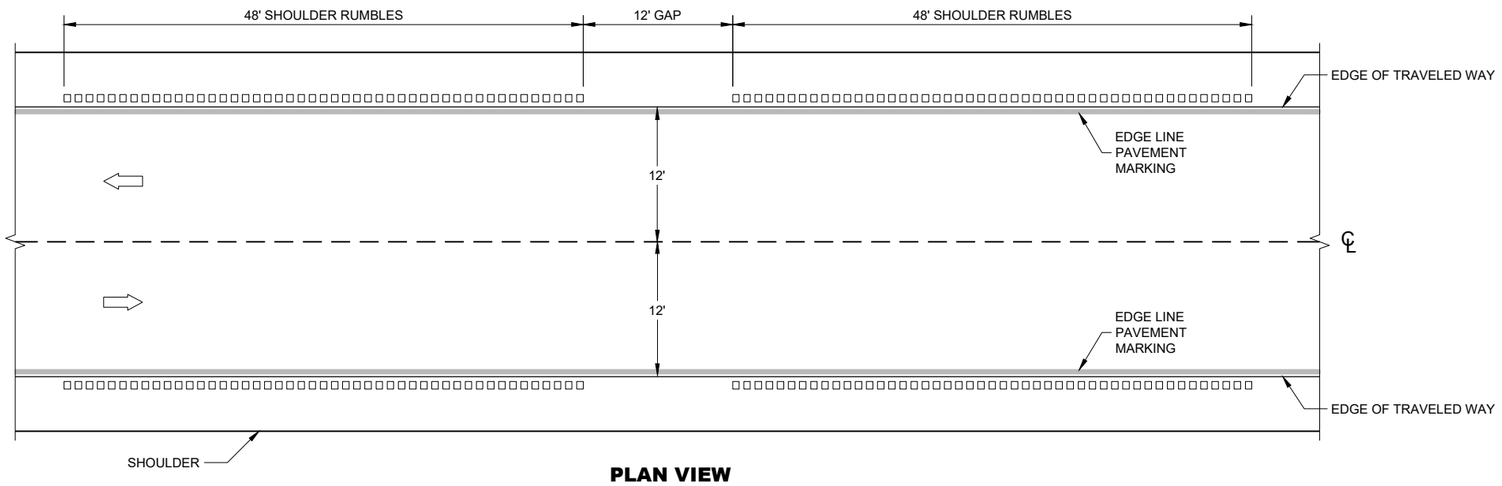
PLAN VIEW
(SINGLE GROOVE)

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

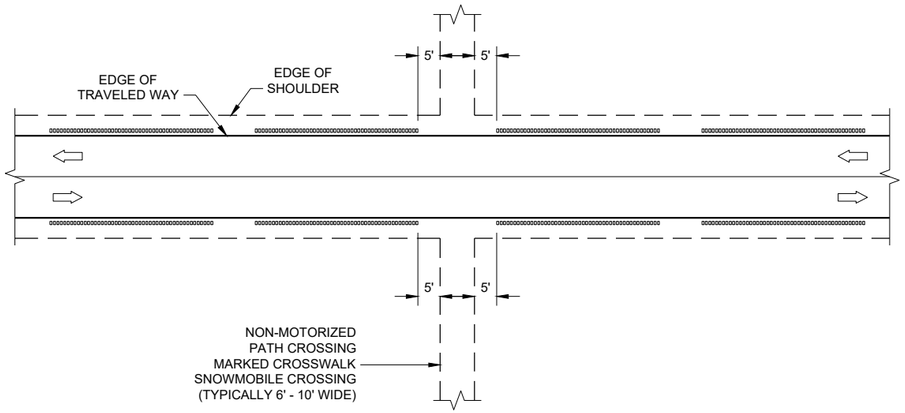
SDD 13A10 - 03a

SHOULDER RUMBLE STRIPS ASPHALT

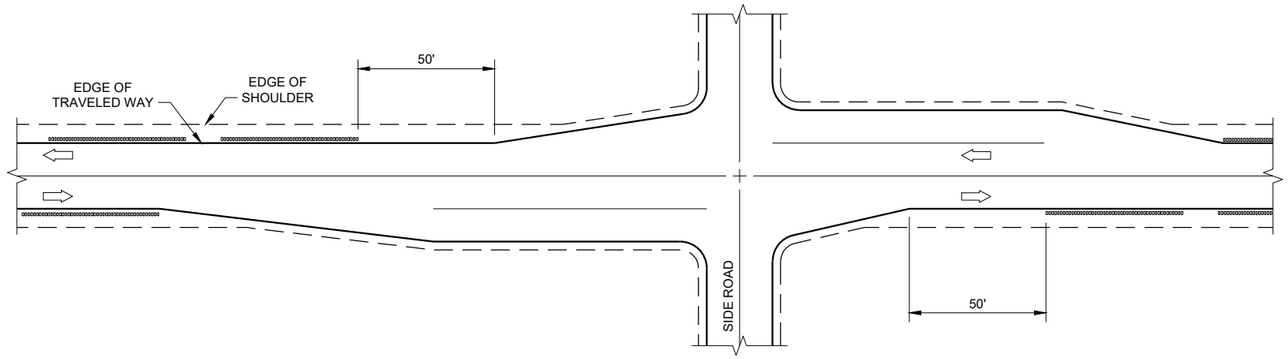
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

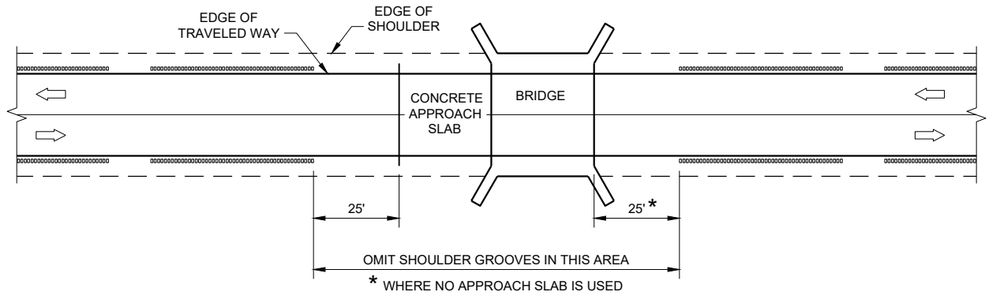
SDD 13A10 - 03a



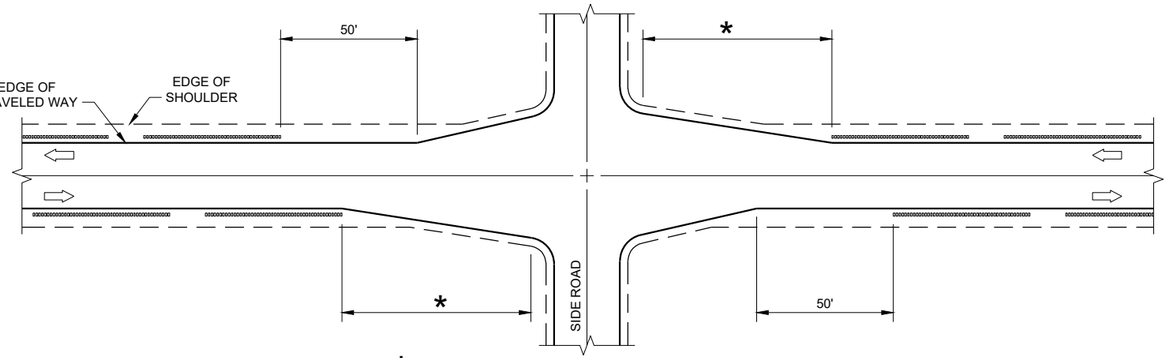
GROOVES AT MISCELLANEOUS CROSSINGS



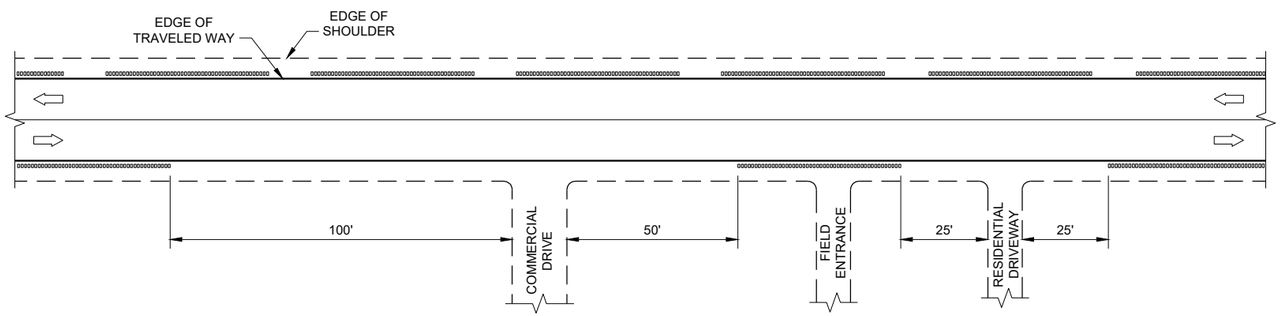
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

GENERAL NOTES

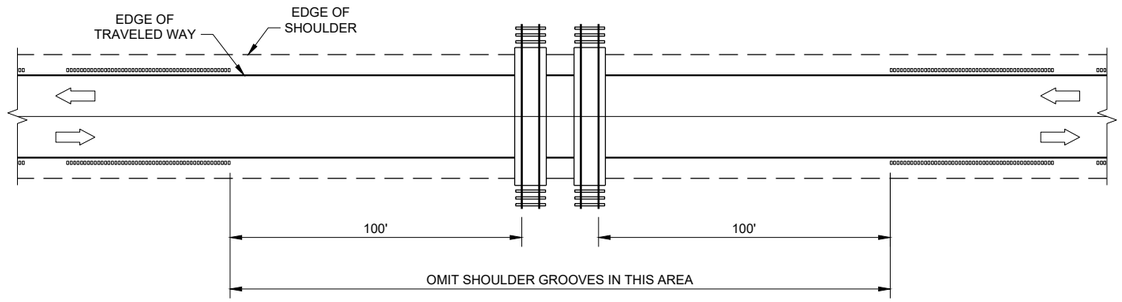
① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

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

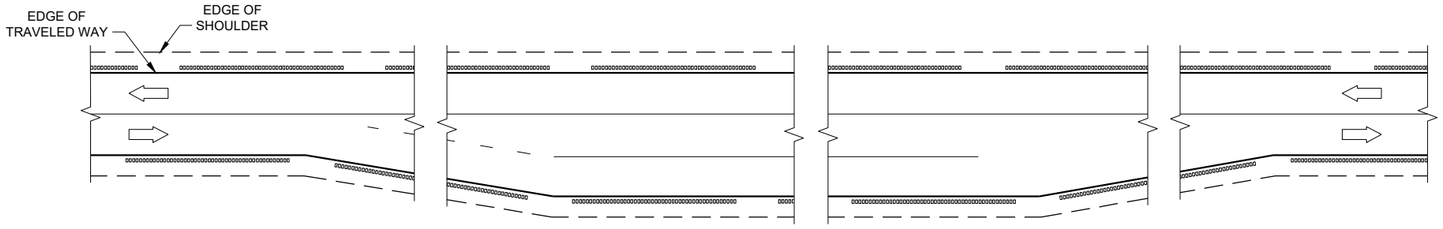
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

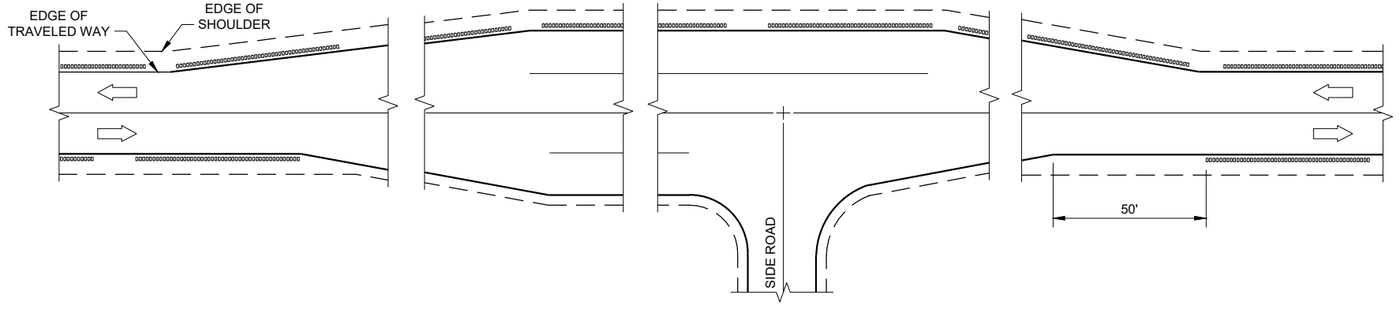
SDD 13A10 - 03g



GROOVES AT RAILROADS



GROOVES AT PASSING AND CLIMBING LANES



GROOVES AT BYPASS LANES

6

SDD 13A10 - 03h

6

SDD13A10 - 03h

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

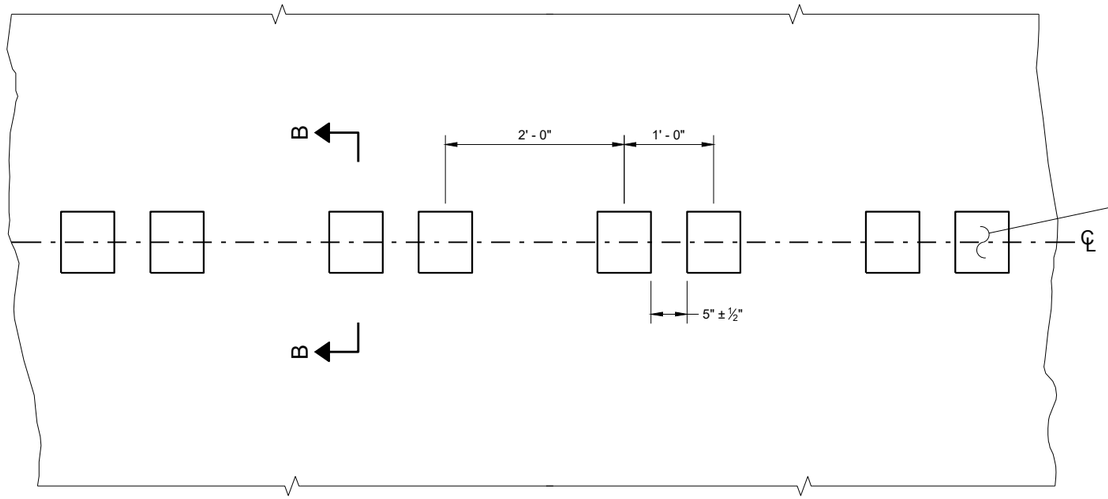
/S/ John Jenkins
ROADWAY STANDARDS DEVE ENGINEER

FHWA

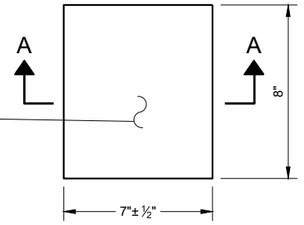
GENERAL NOTES

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

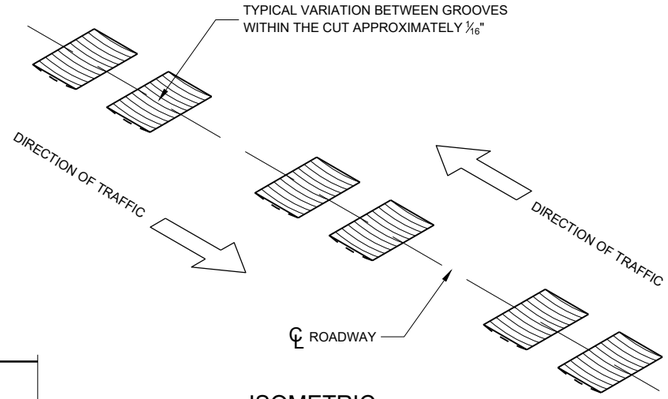
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



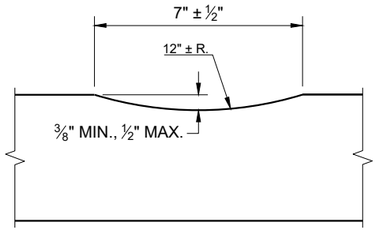
PLAN DETAIL VIEW



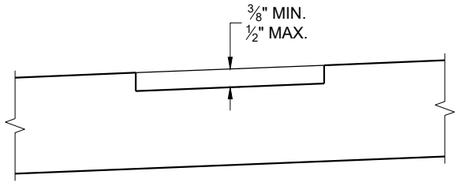
PLAN VIEW
(SINGLE GROOVE)



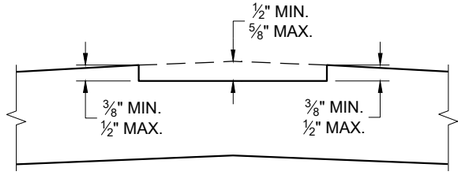
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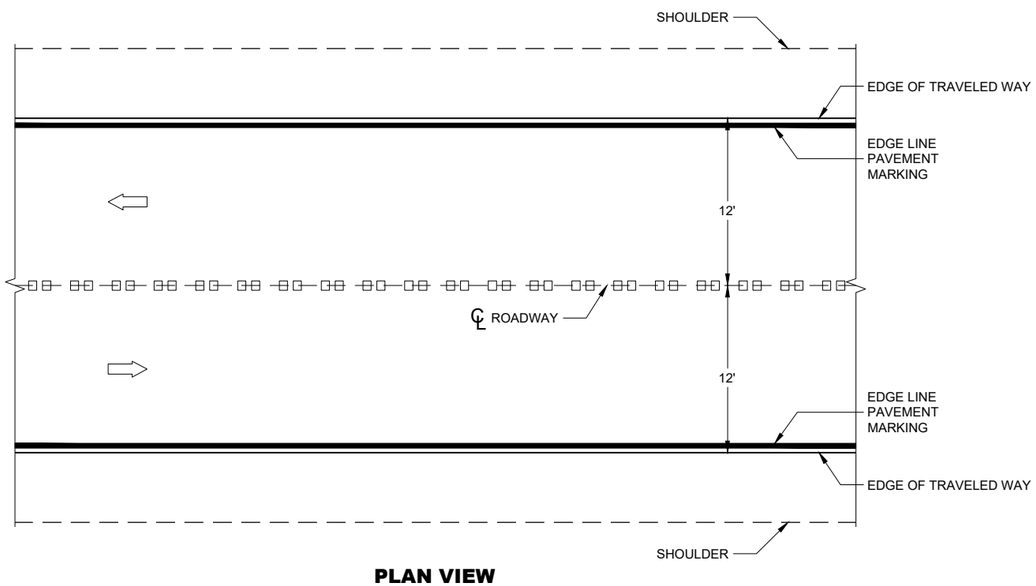
SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



PLAN VIEW

CENTERLINE RUMBLE STRIPS - ASPHALT

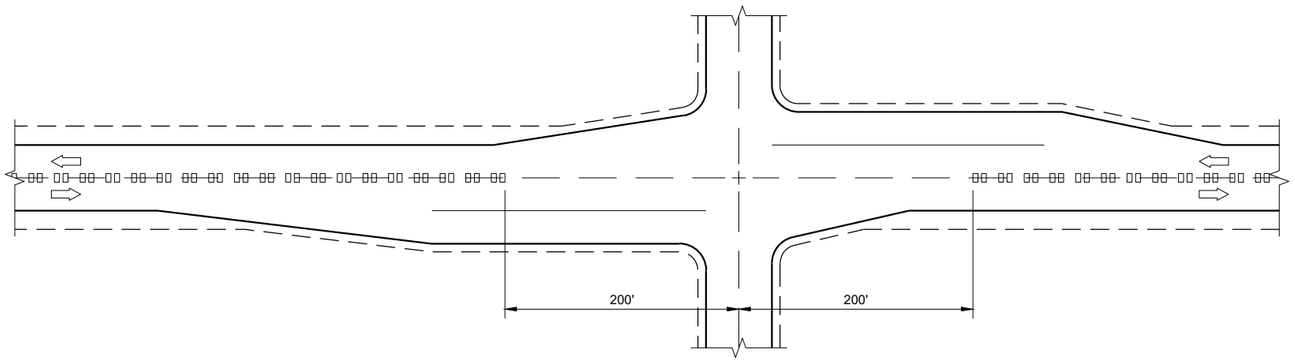
CENTERLINE RUMBLE STRIPS - ASPHALT
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

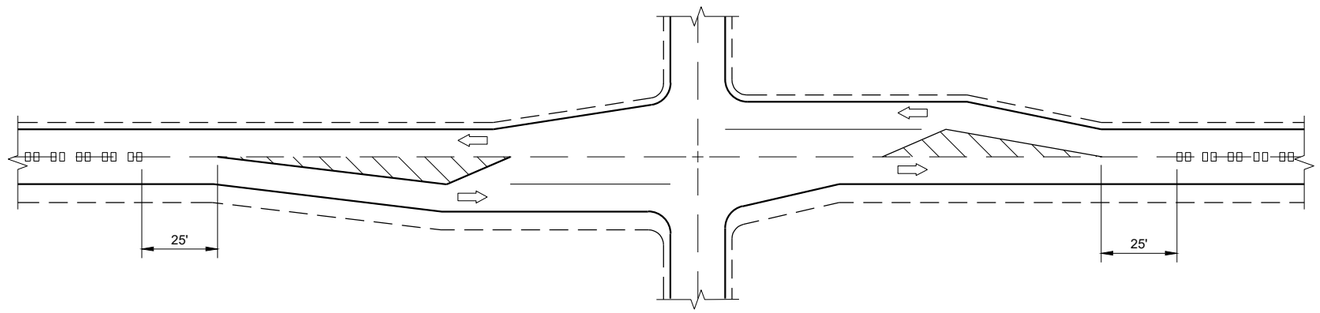
SDD 13A11 - 04a

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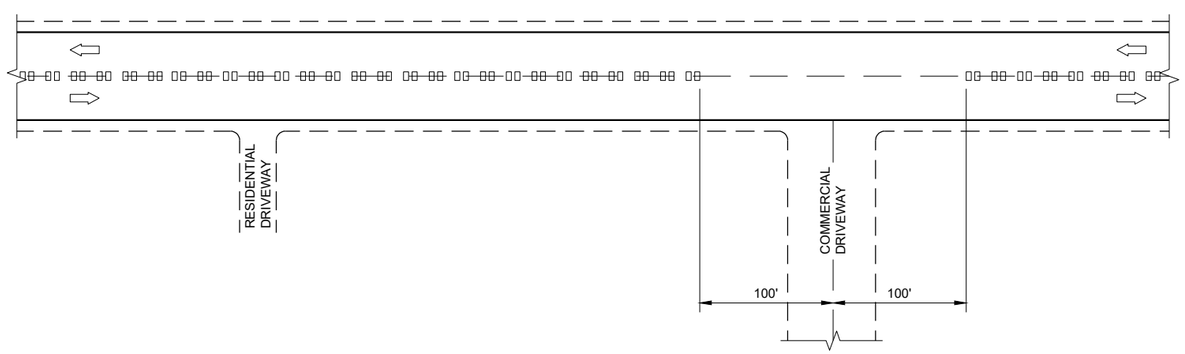
SDD 13A11 - 04a



CENTERLINE GROOVES AT INTERSECTIONS



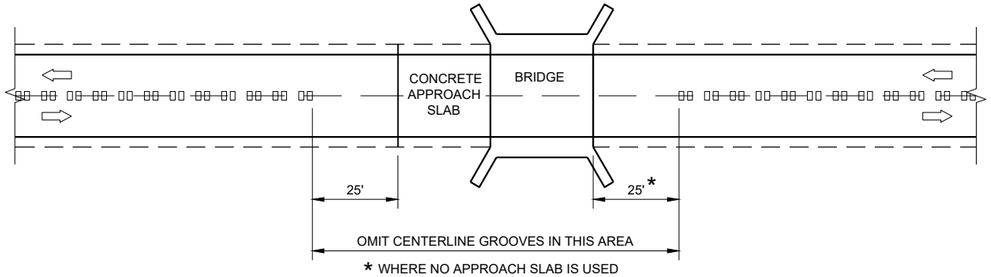
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



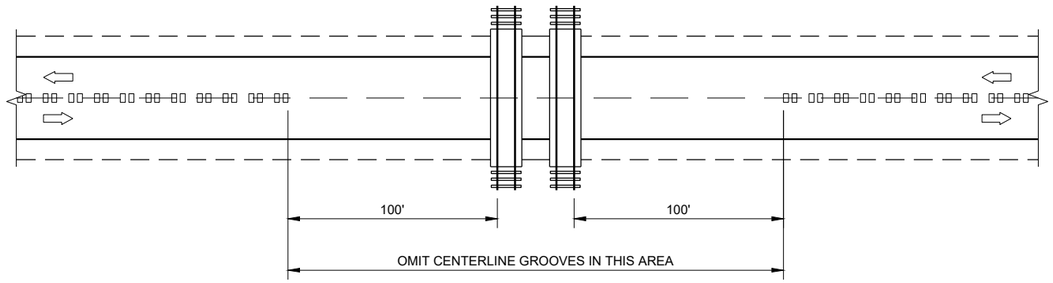
CENTERLINE GROOVES AT DRIVEWAYS (1)

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

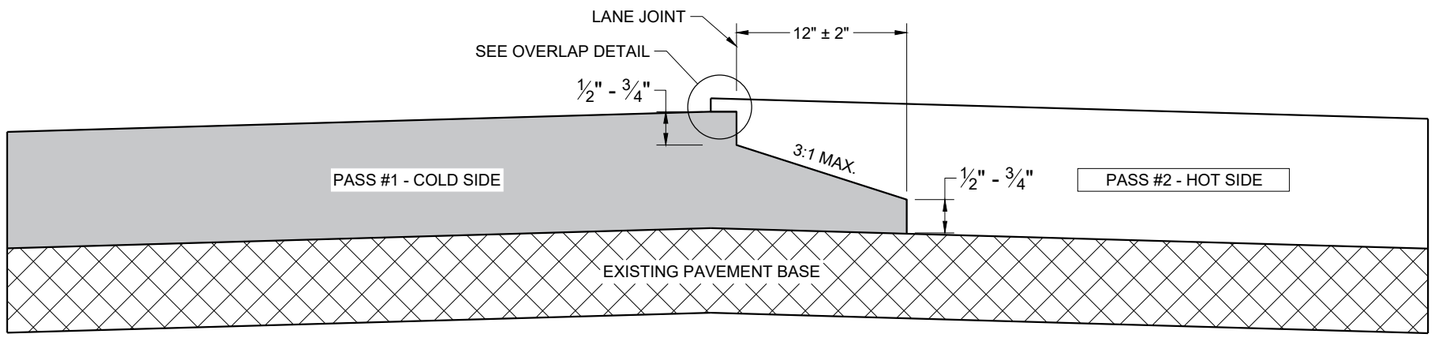
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

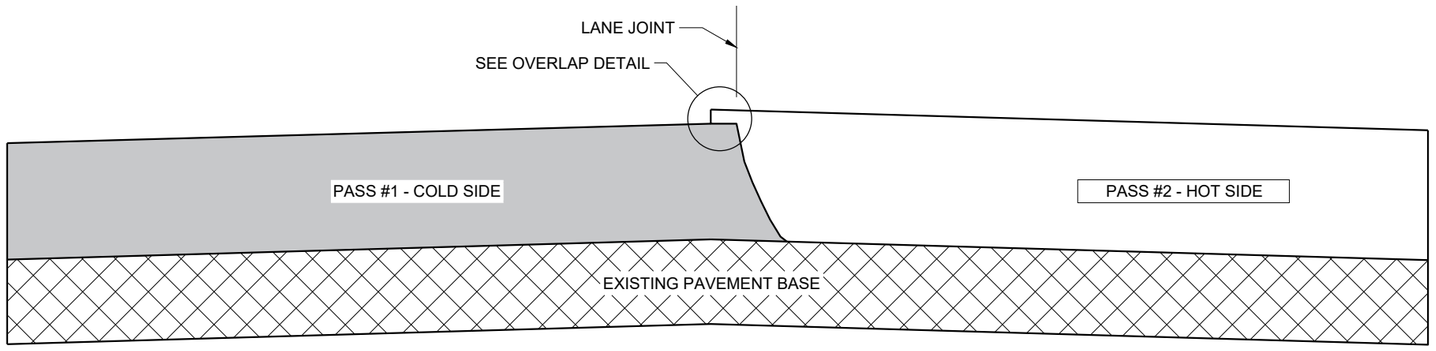
FHWA

6

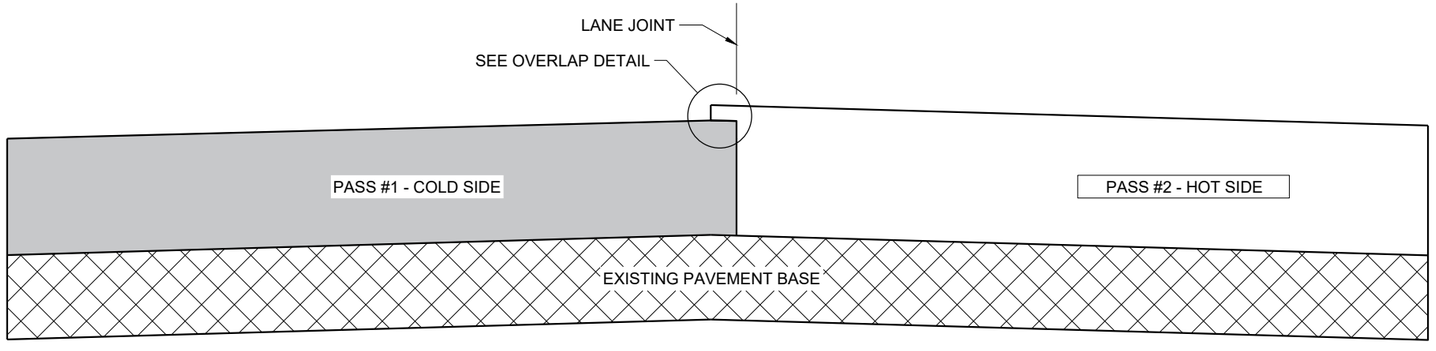
SDD 13A11 - 04d
SDD 13A11 - 04d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

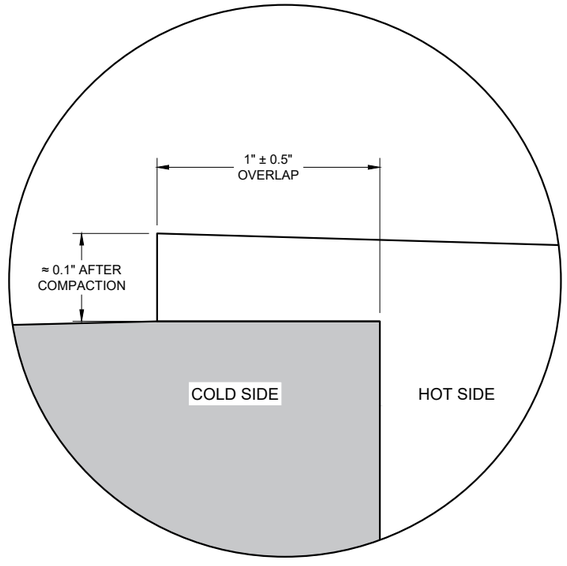
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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.

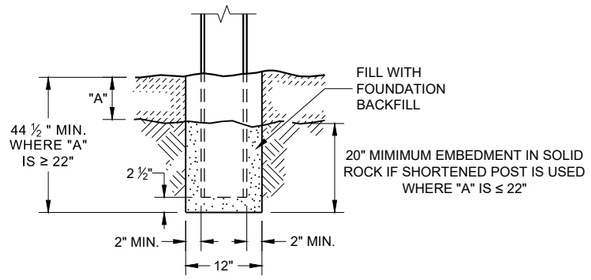
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

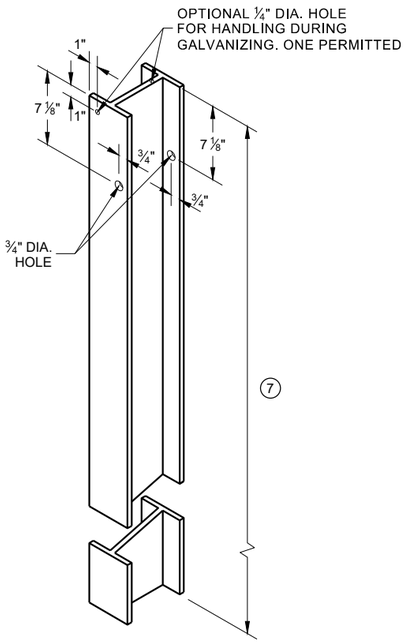
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(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.

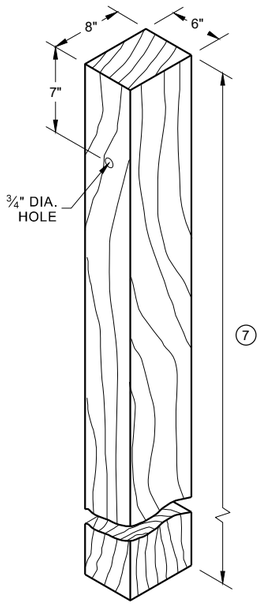
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



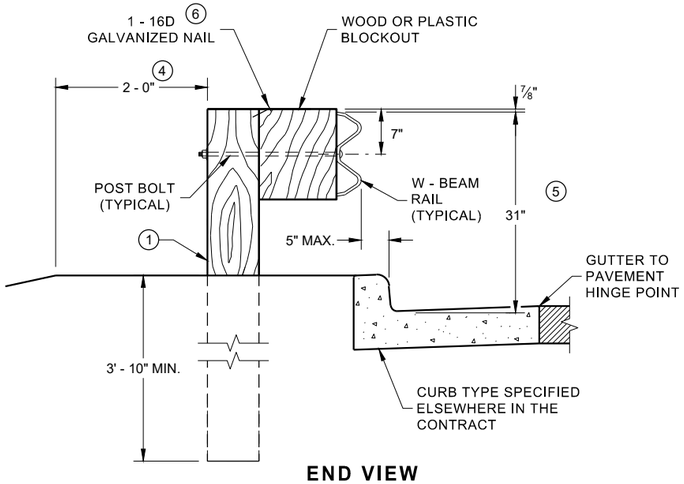
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



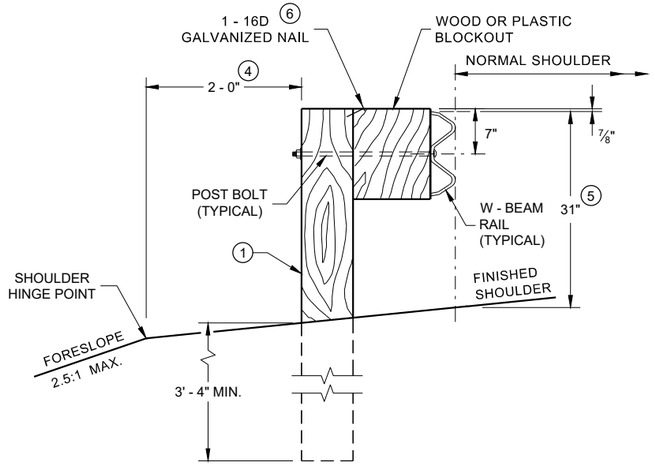
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



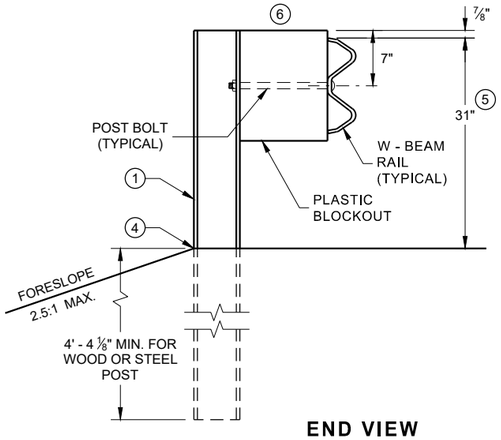
WOOD POST (6" X 8") NOMINAL (1)



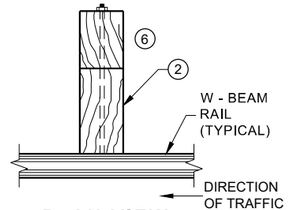
END VIEW
LOCATED ALONG A CURBED ROADWAY



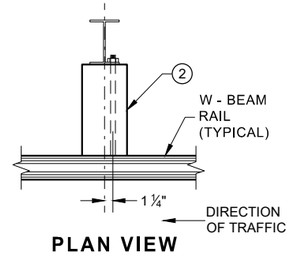
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



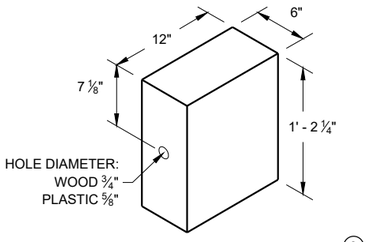
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



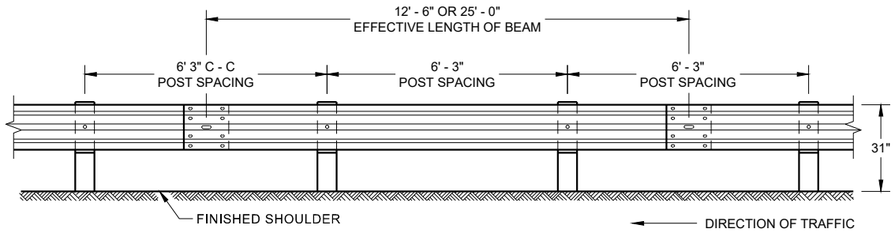
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

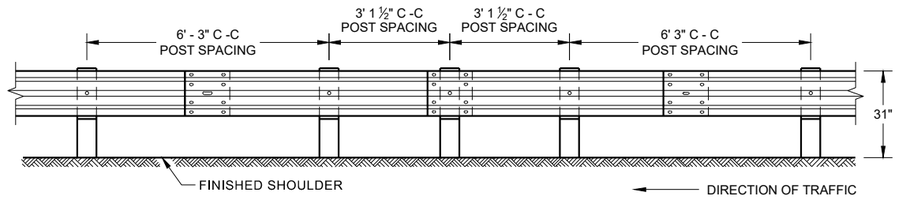
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 07a

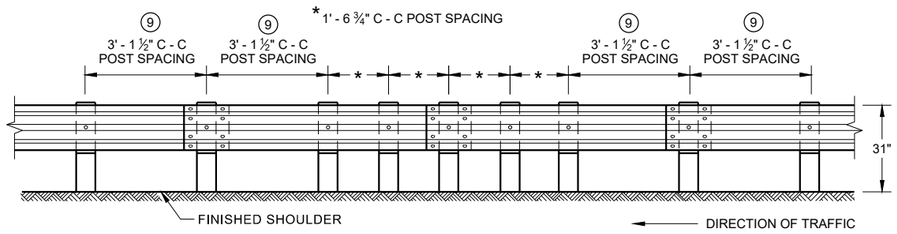
SDD 14B42 - 07a



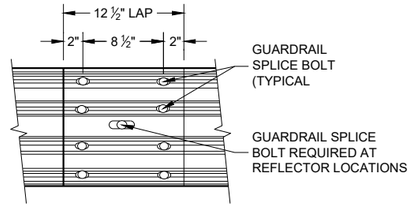
FRONT VIEW
POST SPACING STANDARD INSTALLATION



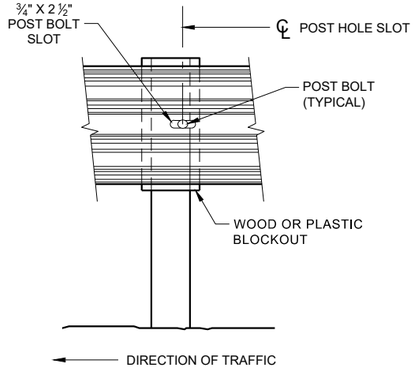
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



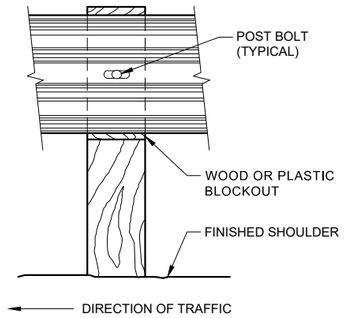
FRONT VIEW
QUARTER POST SPACING (QS)



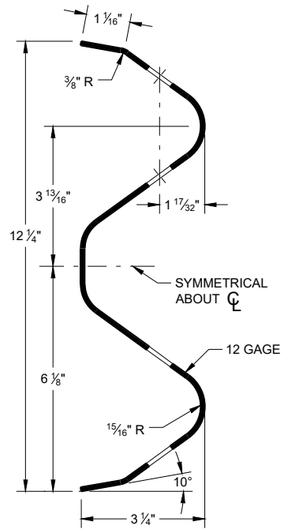
FRONT VIEW
MID-SPAN BEAM SPLICE



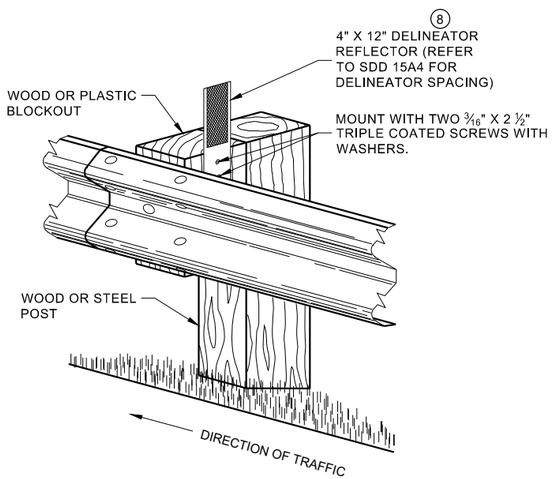
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

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.

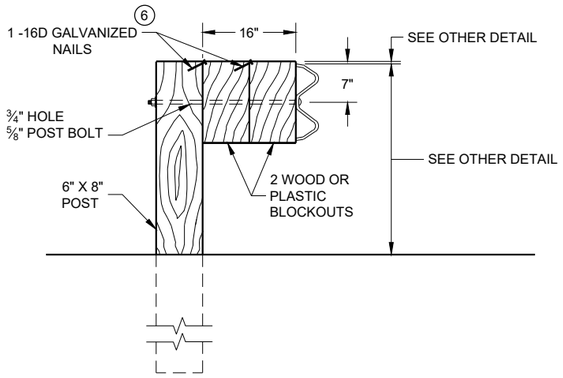
POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B42 - 07b

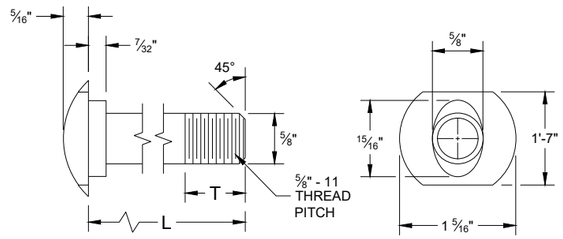


DETAIL FOR 16" BLOCKOUT DEPTH

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.

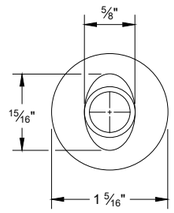
NOTE:

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.

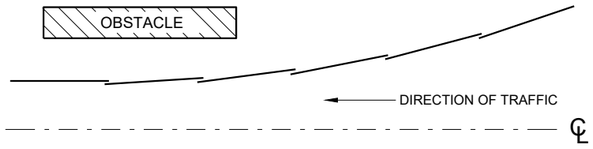


POST BOLT TABLE

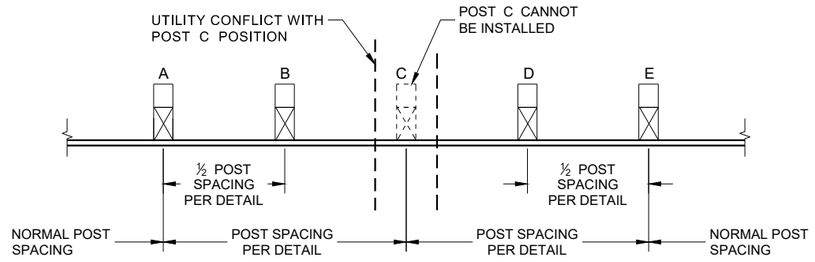
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



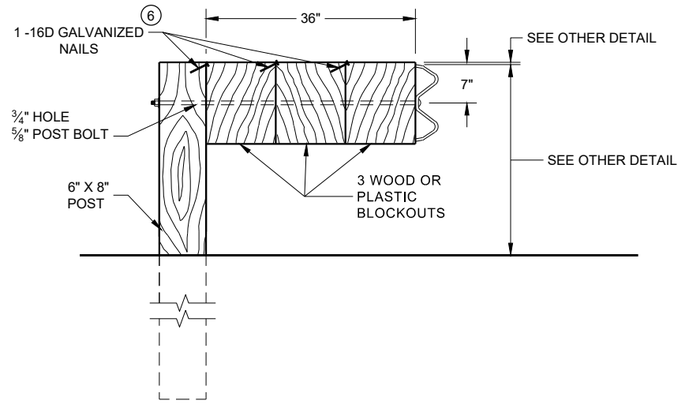
ALTERNATE BOLT HEAD



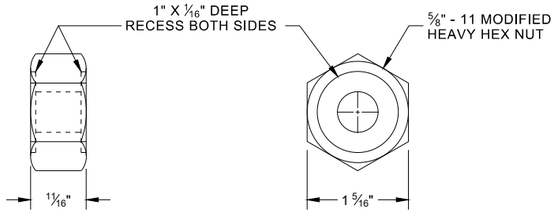
PLAN VIEW
BEAM LAPPING DETAIL



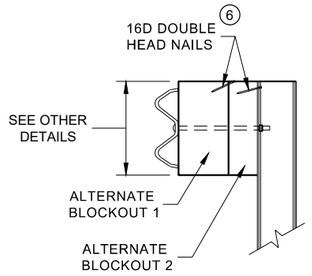
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



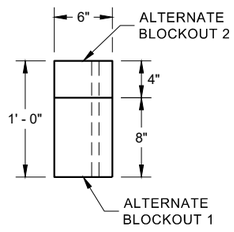
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

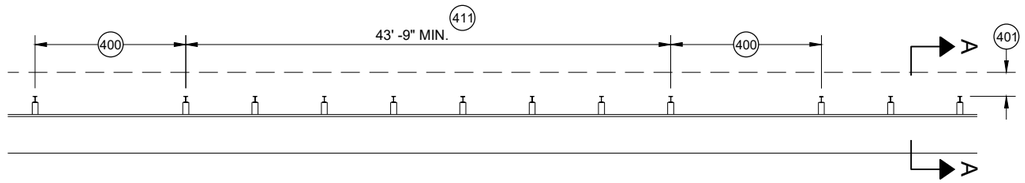
ALTERNATE WOOD BLOCKOUT DETAIL

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.

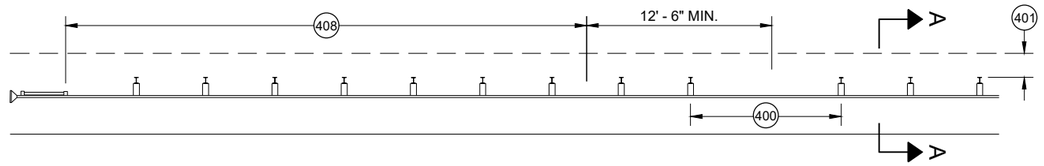
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(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.

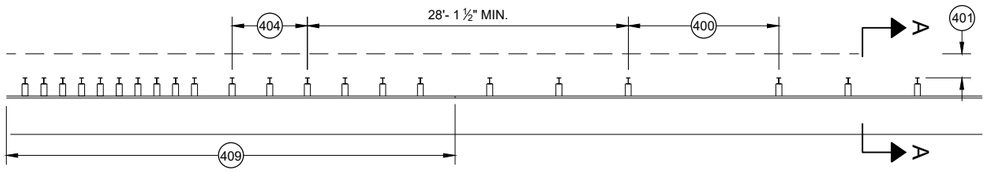
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL



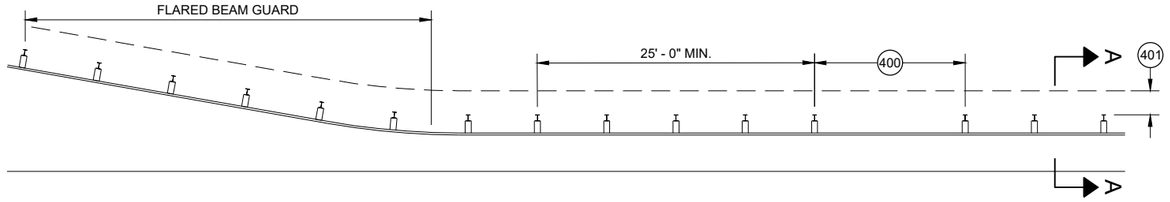
MISSING POST IN MGS GUARDRAIL



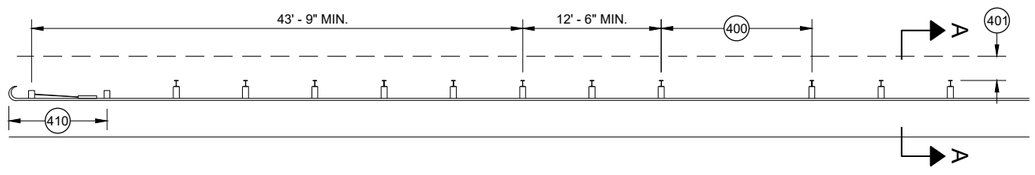
MISSING POST IN MGS GUARDRAIL NEAR EAT



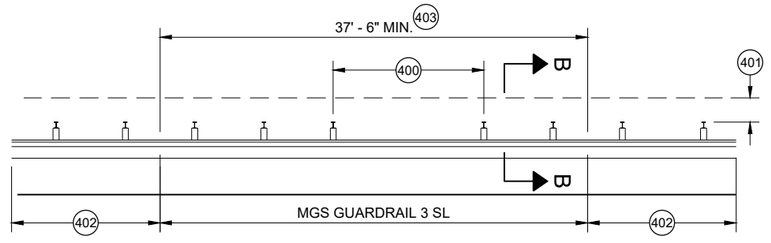
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

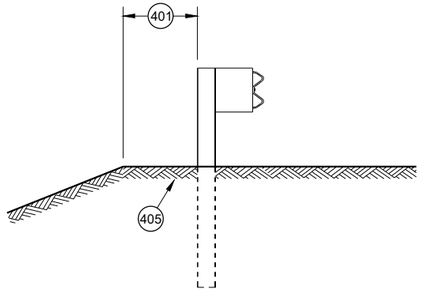


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

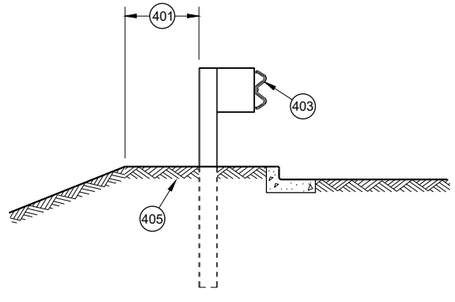


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(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

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.

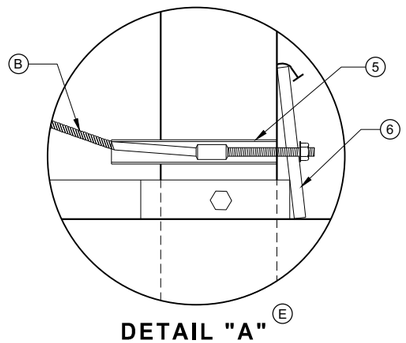
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

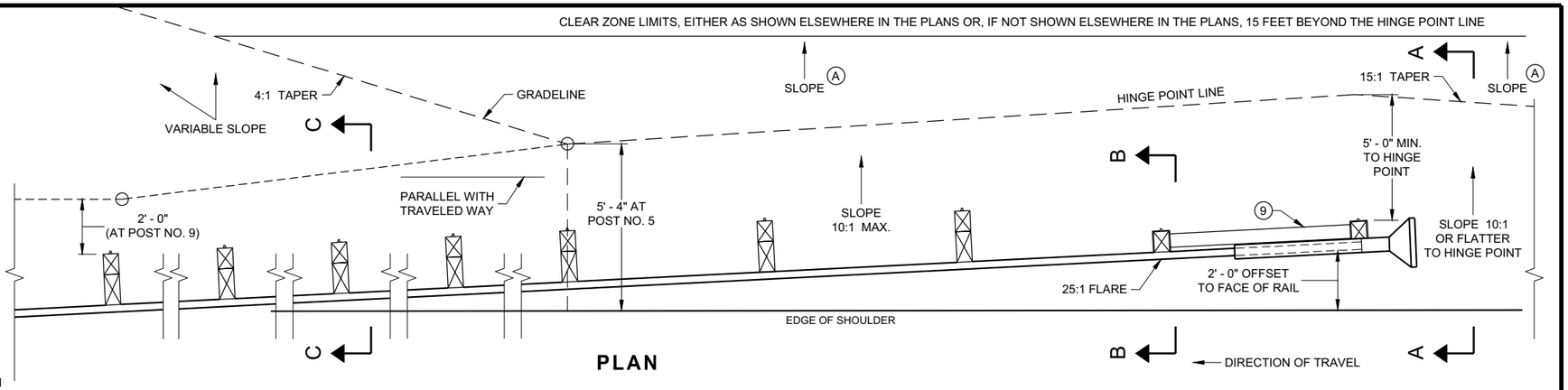
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

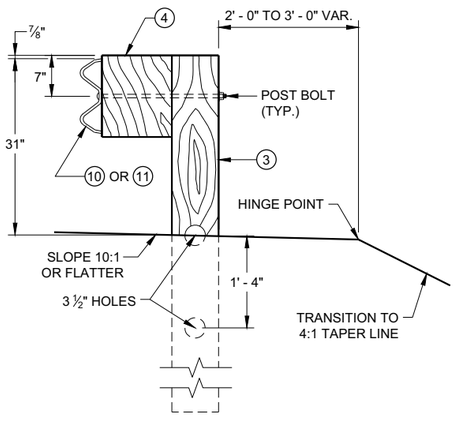
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

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.

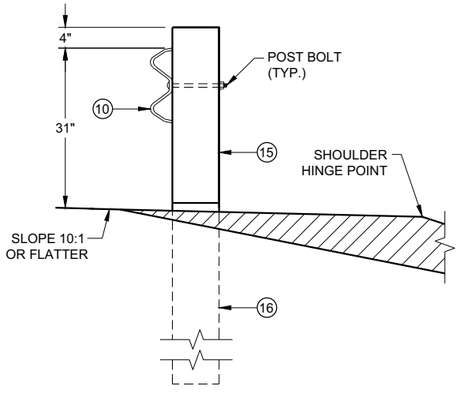


DETAIL "A" (E)

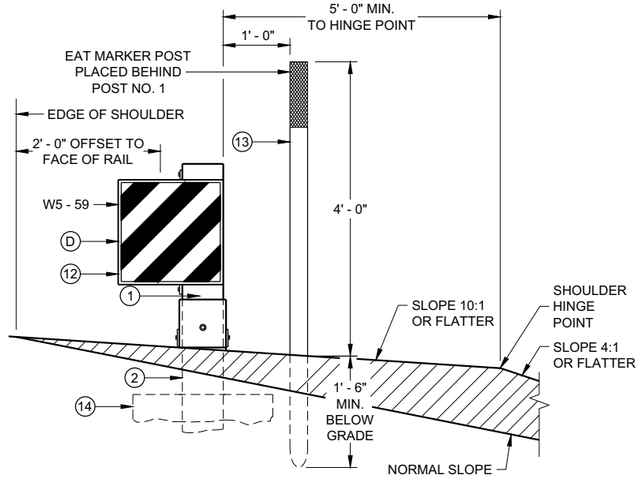




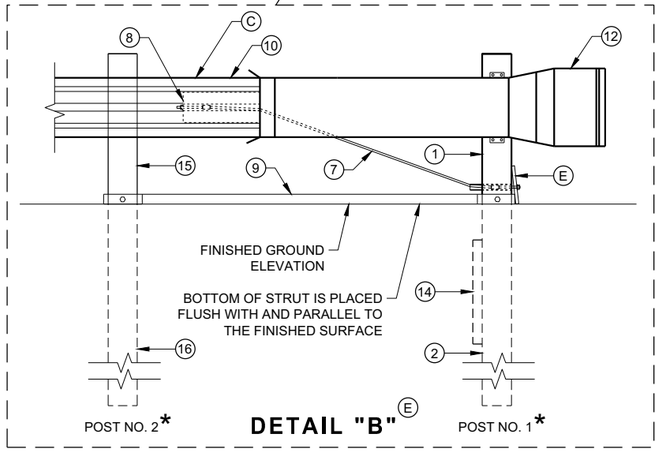
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



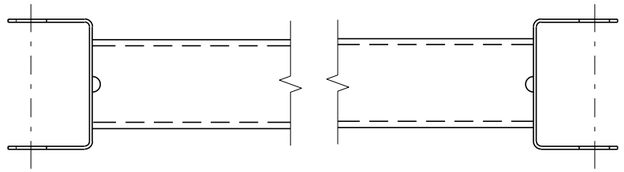
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

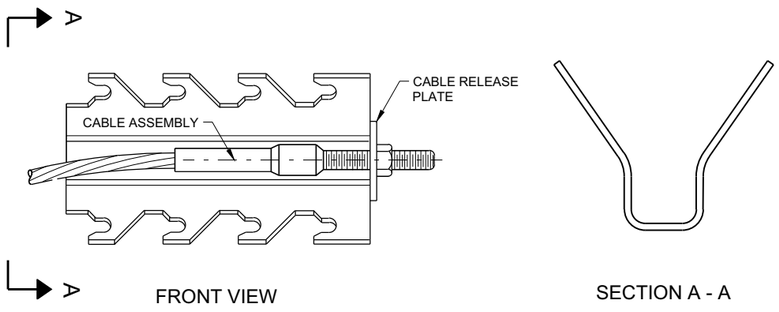
SDD 14B44 - 04a



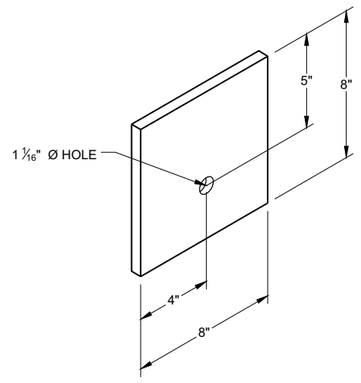
GENERIC GROUND STRUT (9) (E)

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

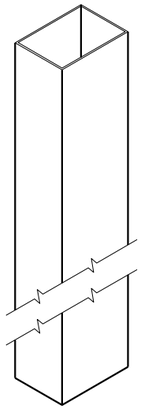
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SDD 14B44 - 04b

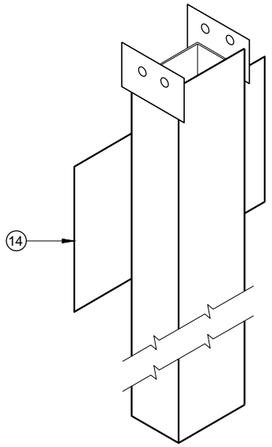
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

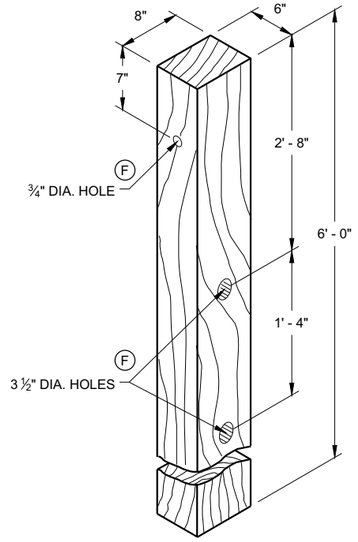
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



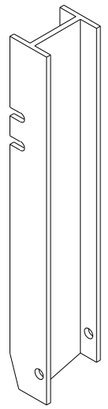
UPPER POST NO. 1 (1) (E)



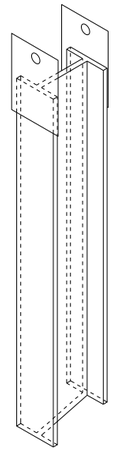
LOWER POST NO. 1 (2) (E)



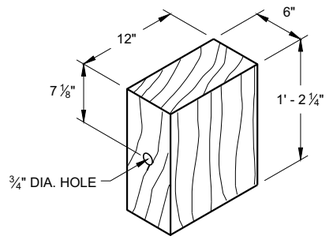
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



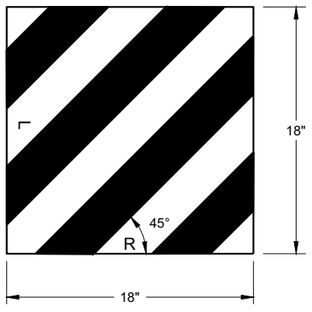
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

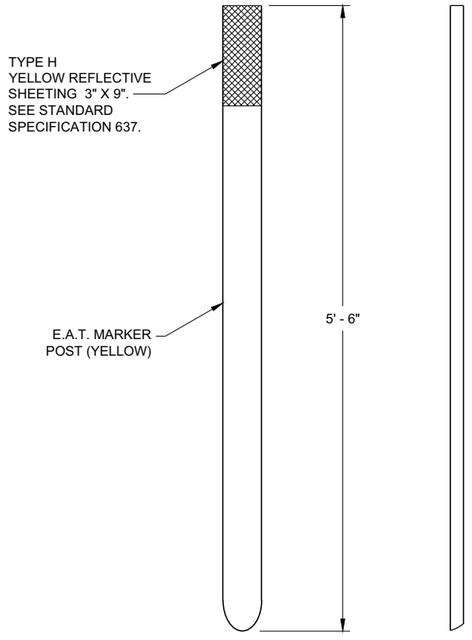


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



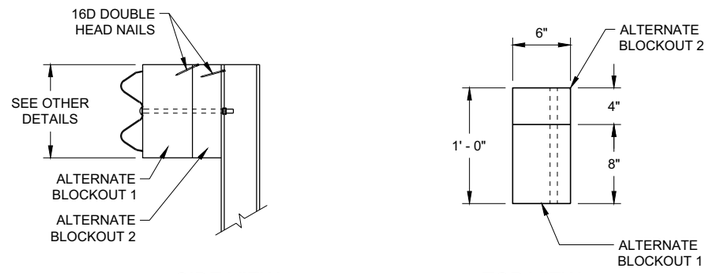
W5 - 59

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)

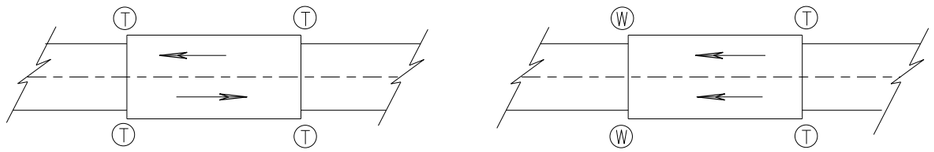
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

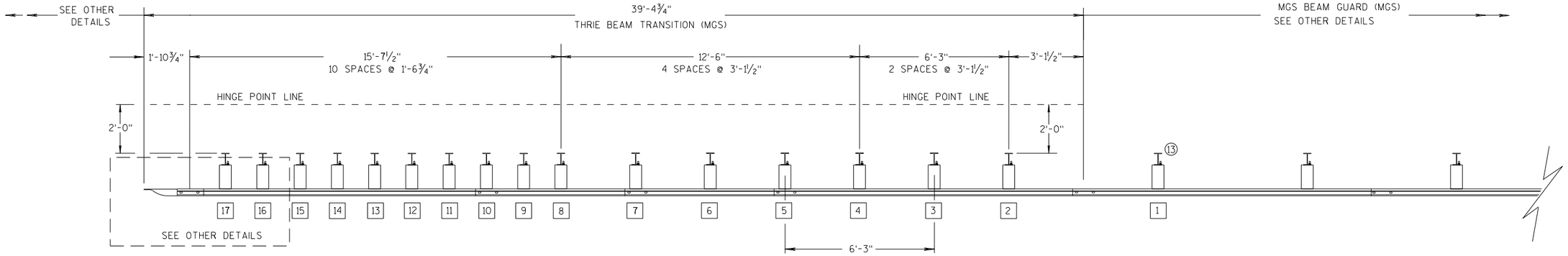
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

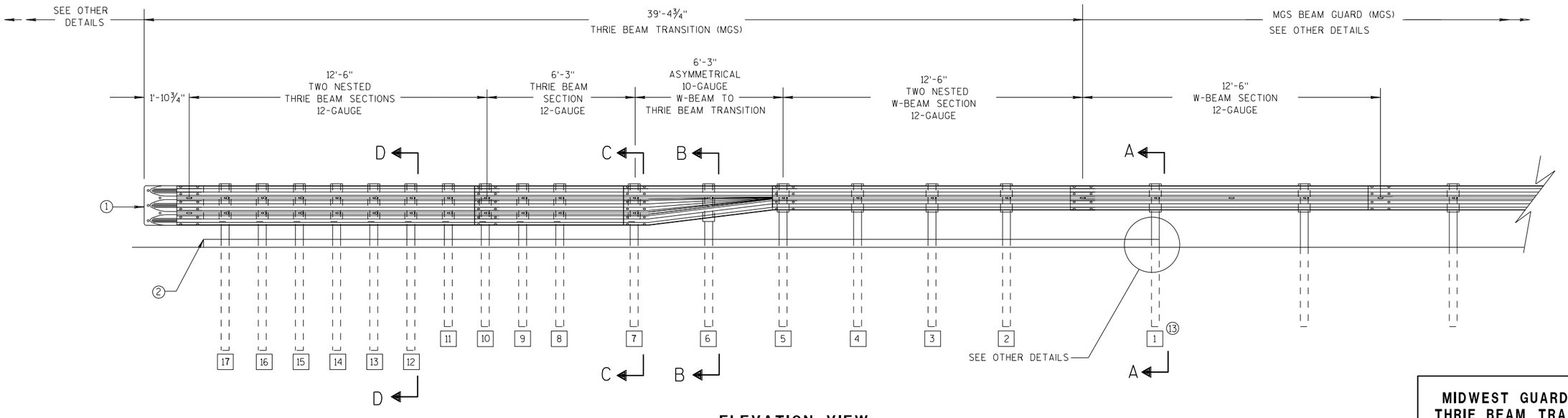
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(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

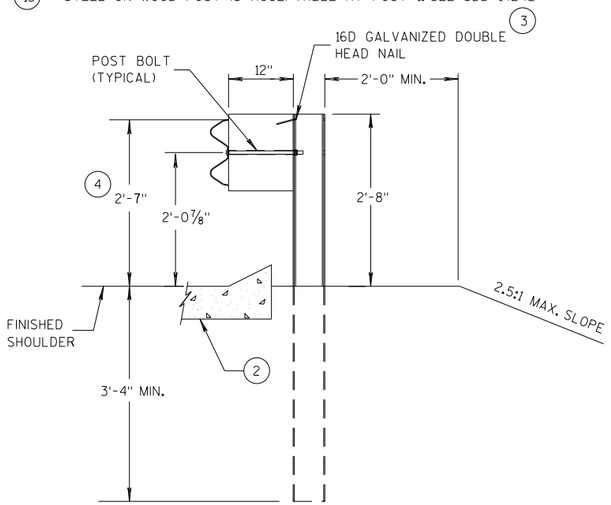
GENERAL NOTES

(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.

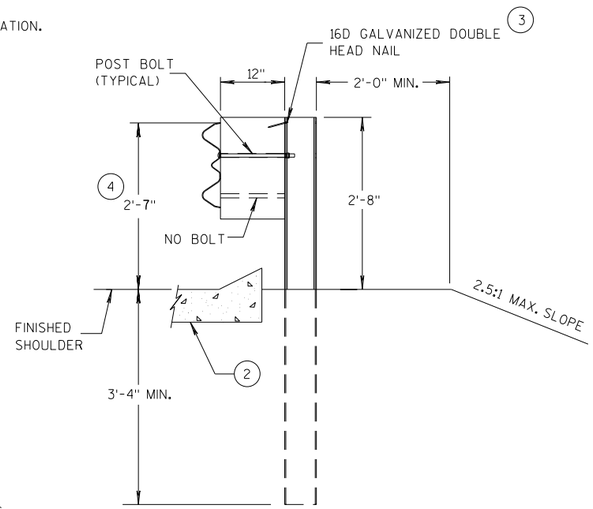
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

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



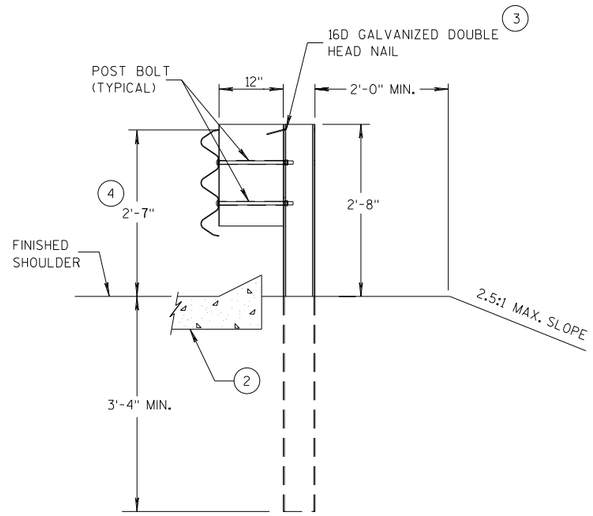
SECTION A-A (13)

POSTS 1-5



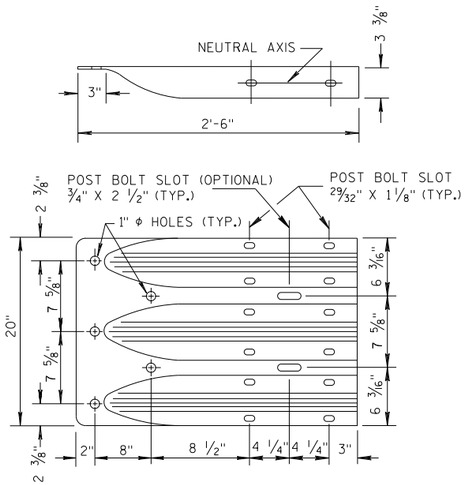
SECTION B-B

POST 6

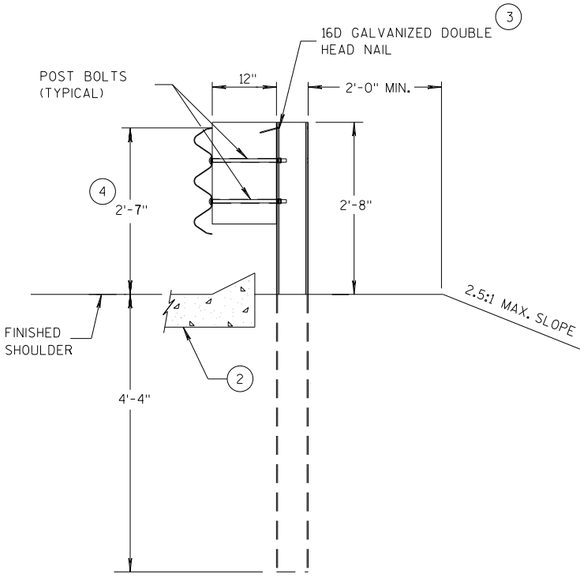


SECTION C-C

POSTS 7-11

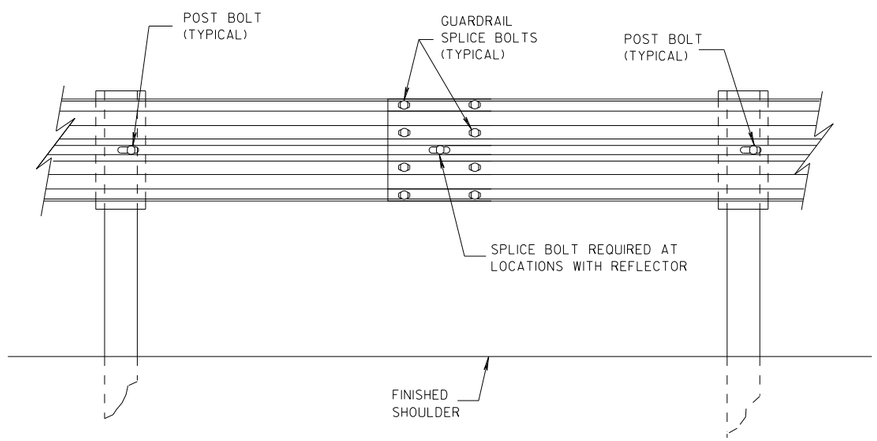


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

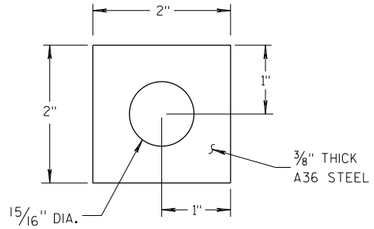
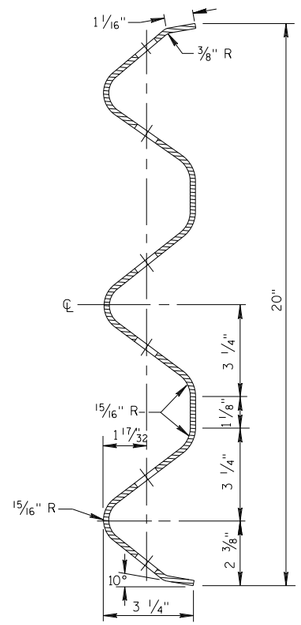


PLATE WASHER DETAIL



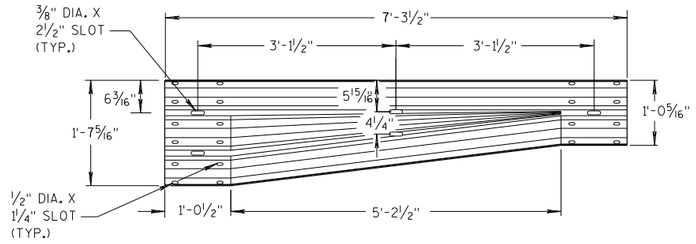
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

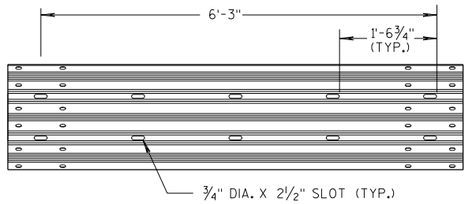
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

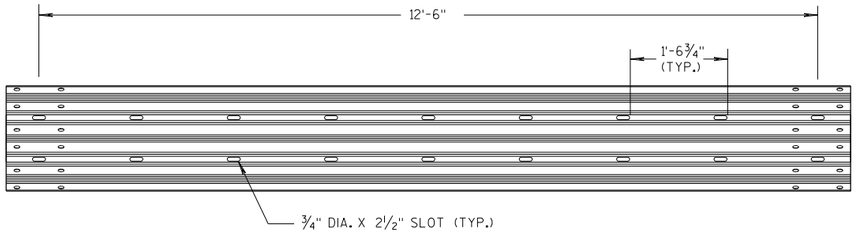
S.D.D. 14 B 45-5b



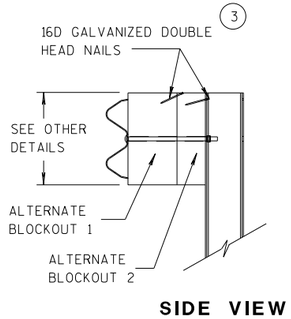
W-BEAM TO THRIE BEAM TRANSITION SECTION



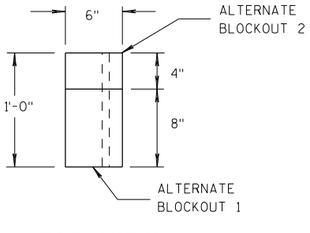
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

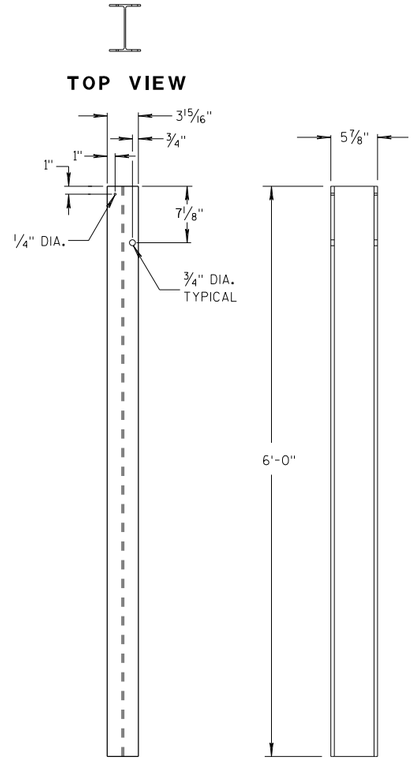


SIDE VIEW



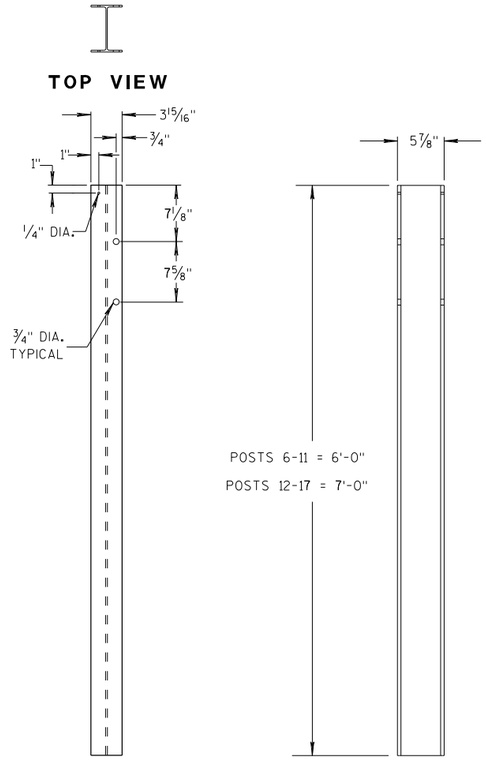
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



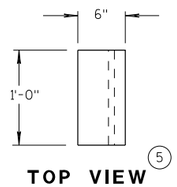
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

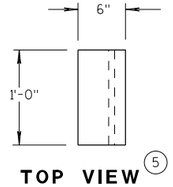


FRONT VIEW SIDE VIEW

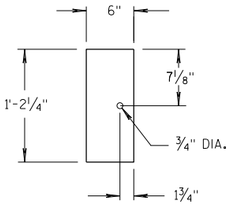
STEEL POSTS 6-17



TOP VIEW (5)

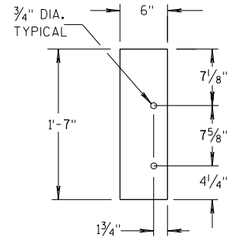


TOP VIEW (5)



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.

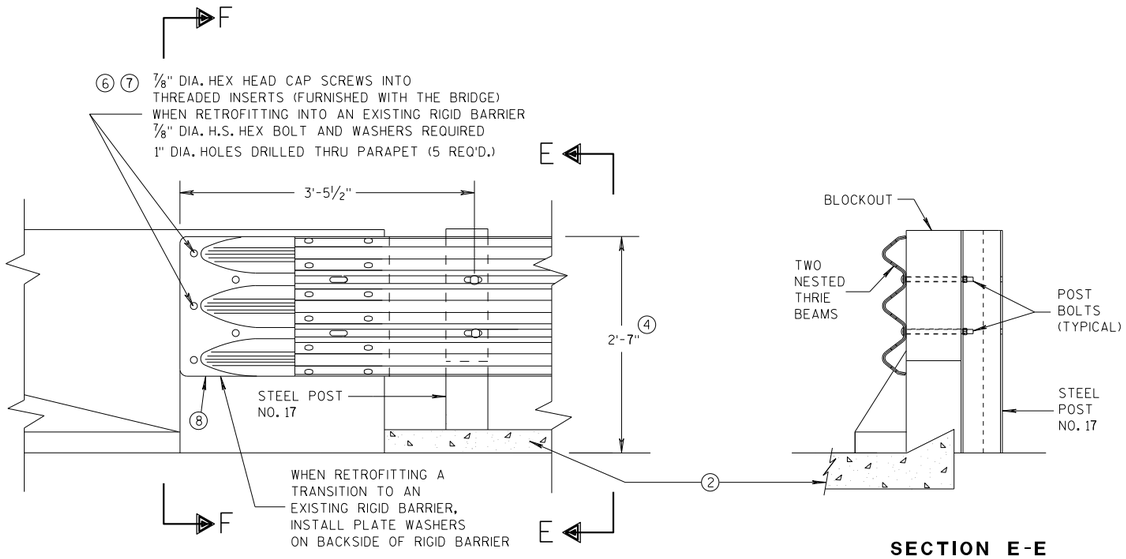
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

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.

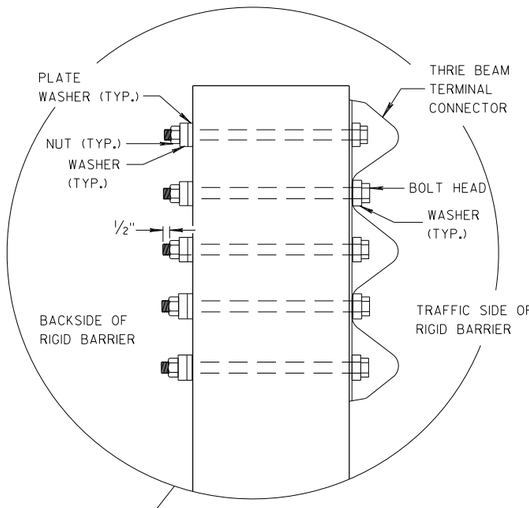
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

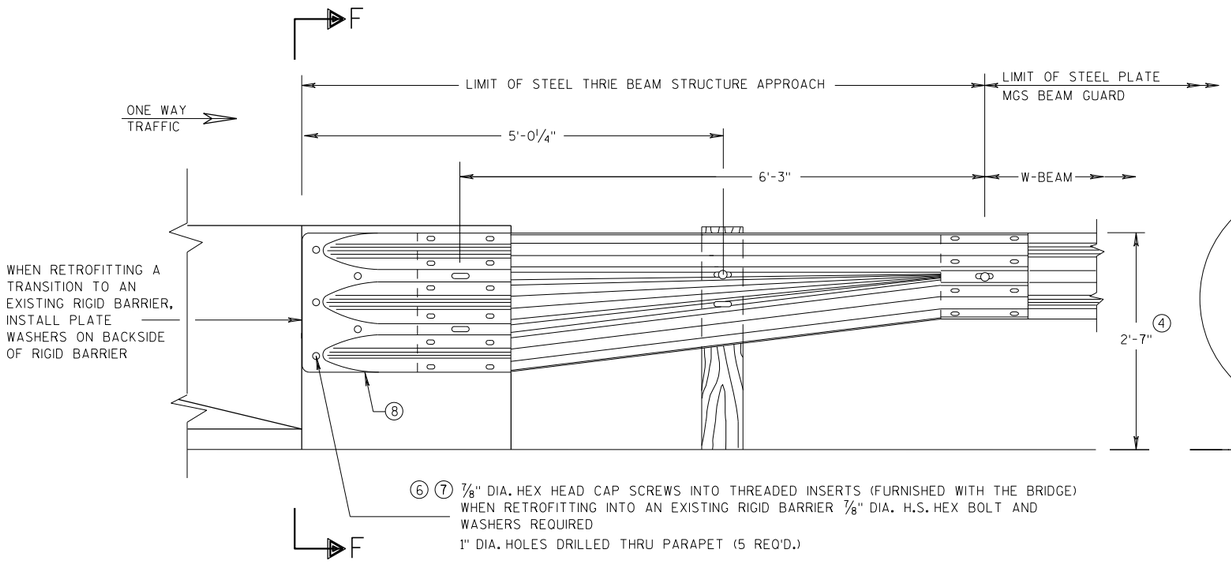
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

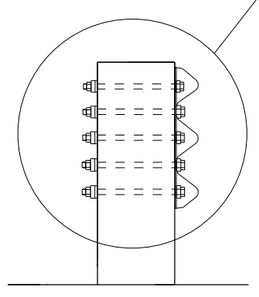
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. 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".

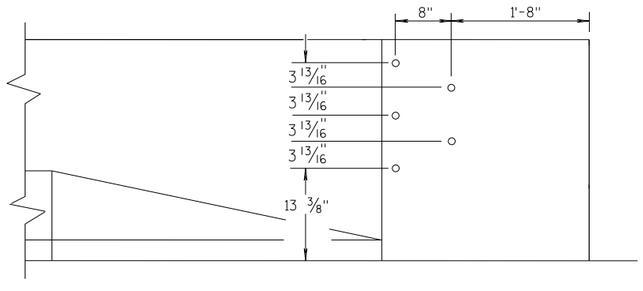




FRONT VIEW



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.

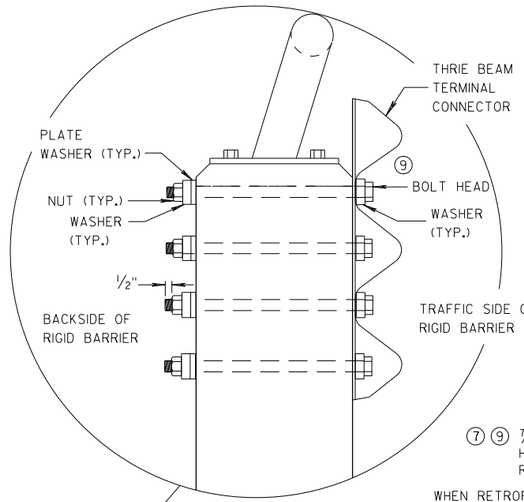
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

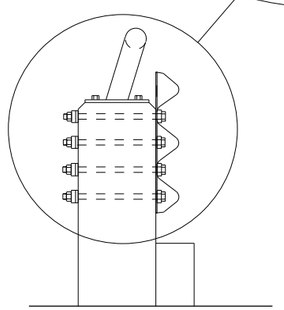
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(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.

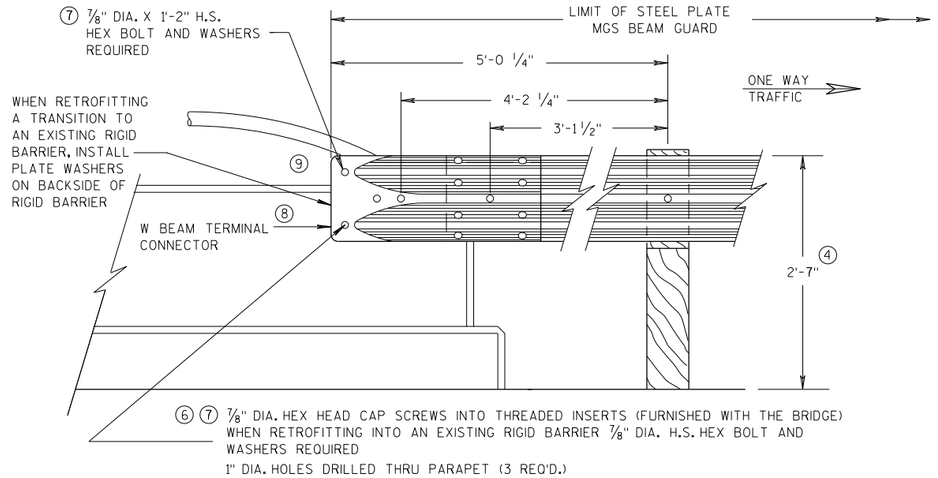
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(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.





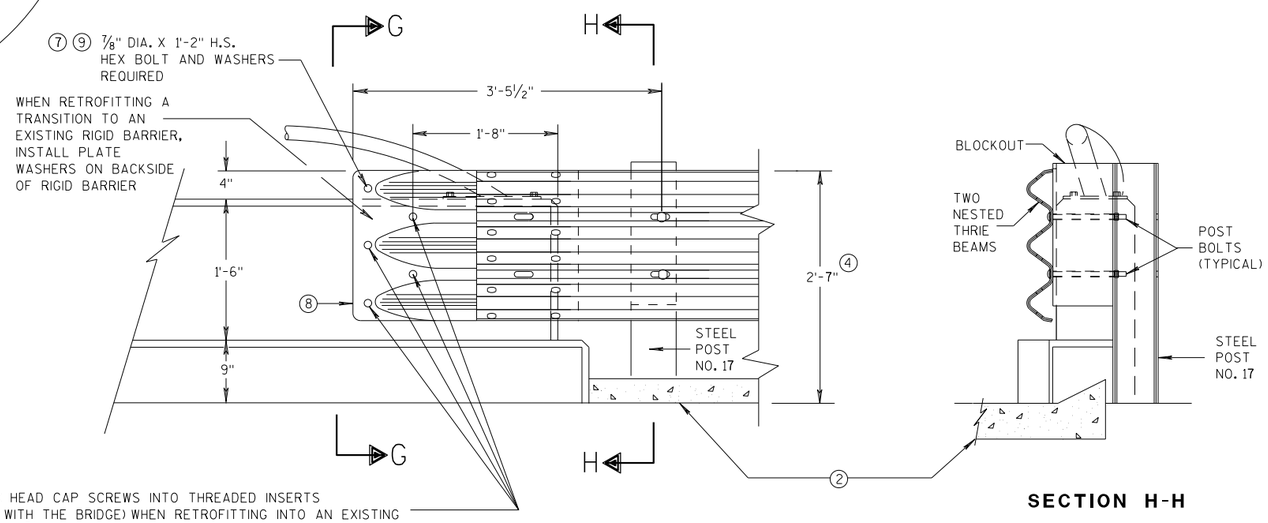
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

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



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

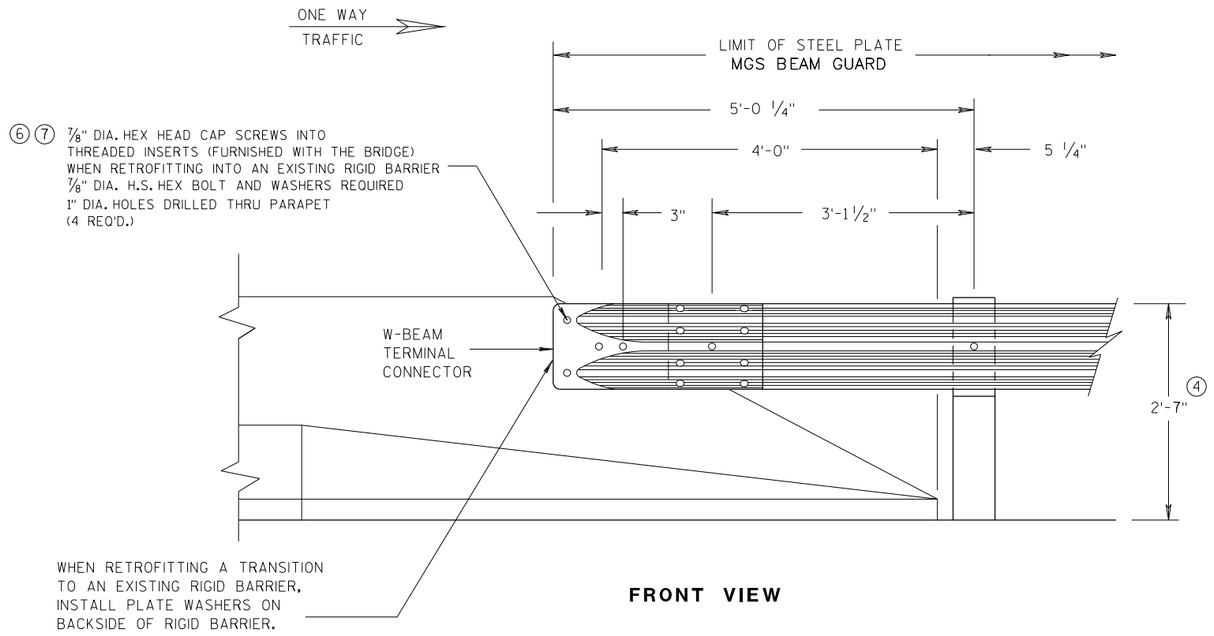
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FHWA

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

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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)

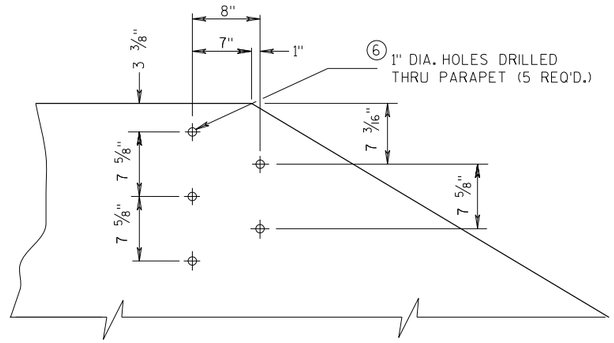
GENERAL NOTES

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

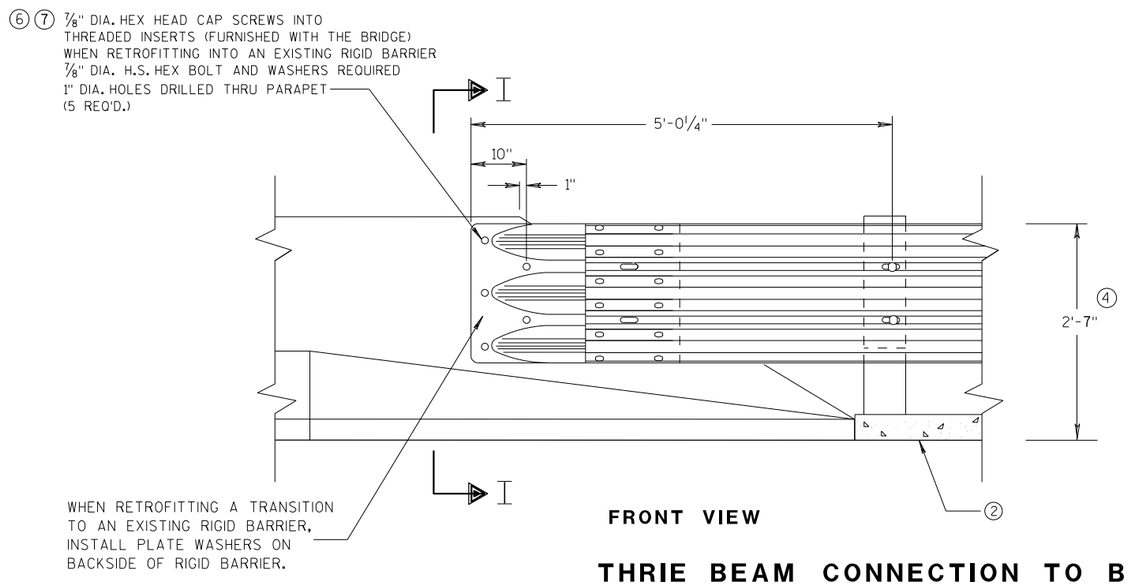
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

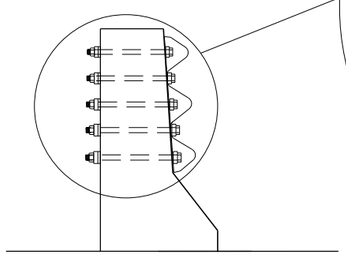
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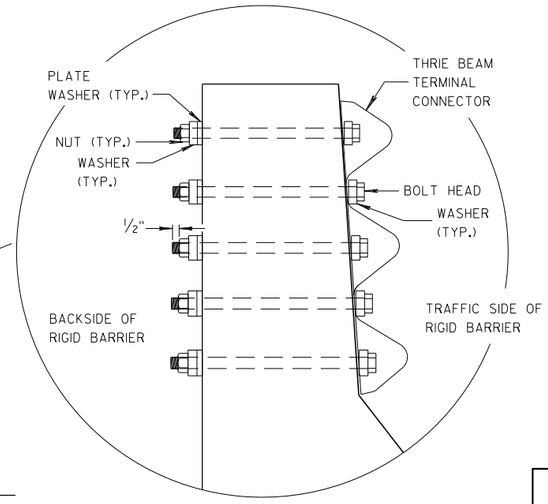
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



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

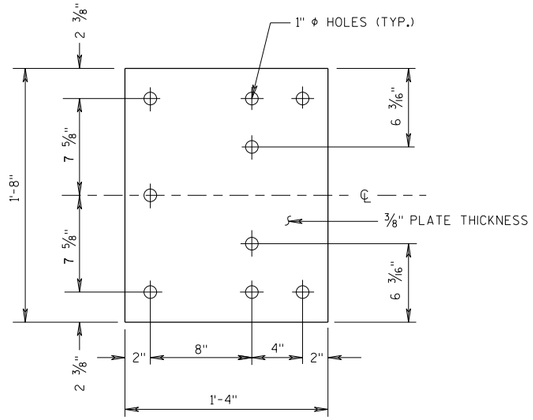
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FHWA

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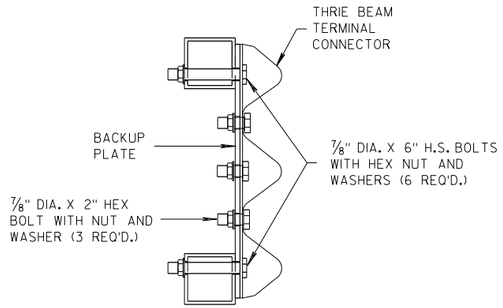
S.D.D. 14 B 45-5f

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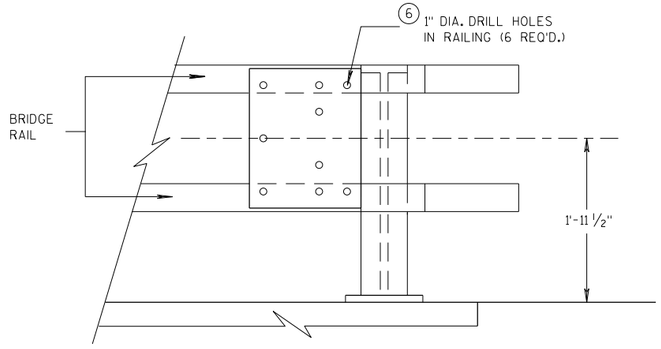
S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL



SECTION J-J

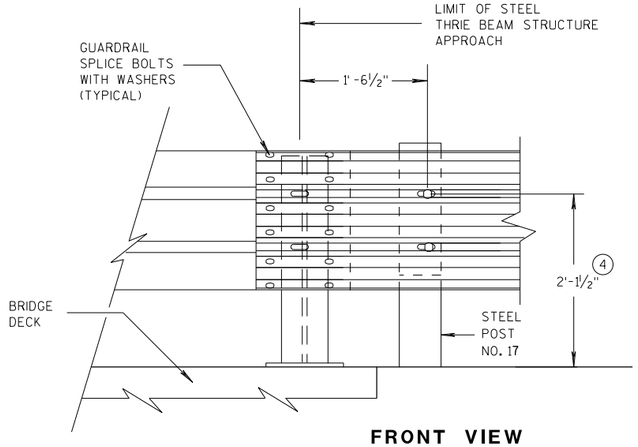


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

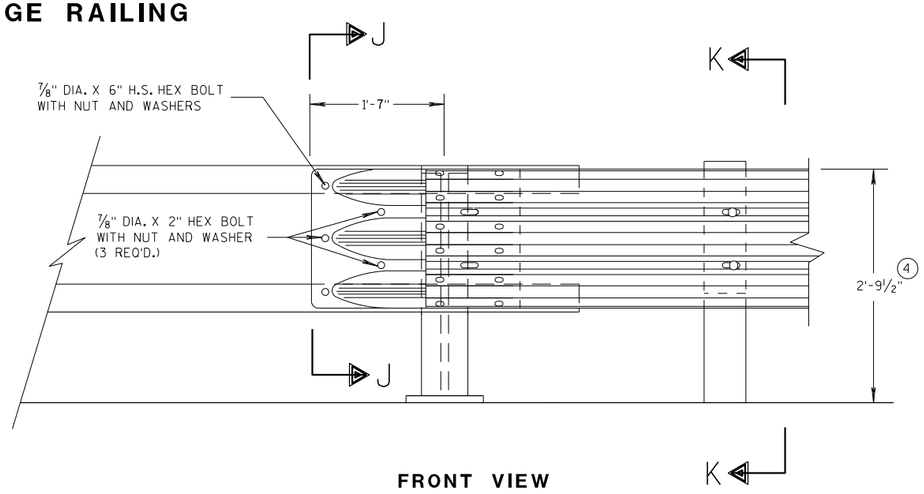
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⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

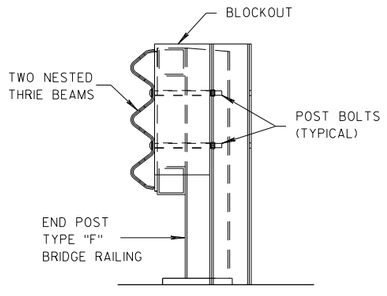


FRONT VIEW

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

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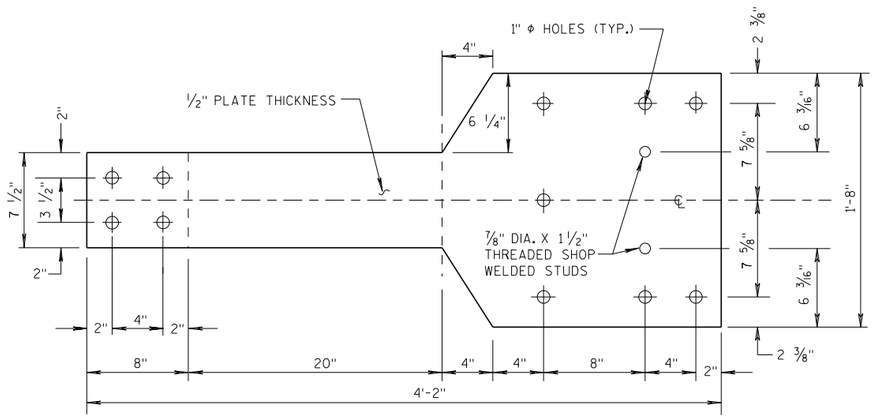
S.D.D. 14 B 45-5g

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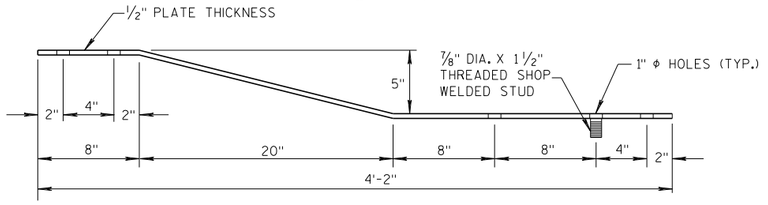
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GENERAL NOTES

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

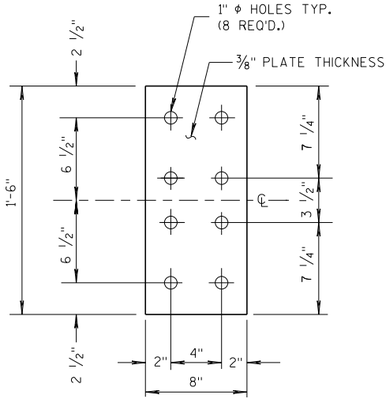


FRONT VIEW



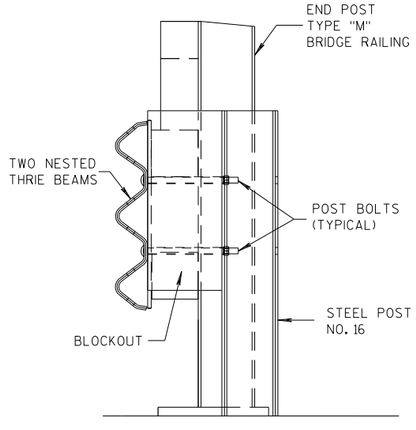
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

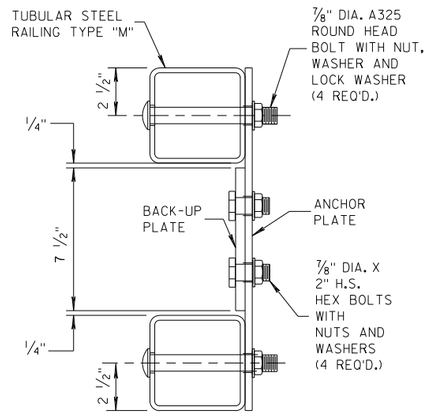


FRONT VIEW

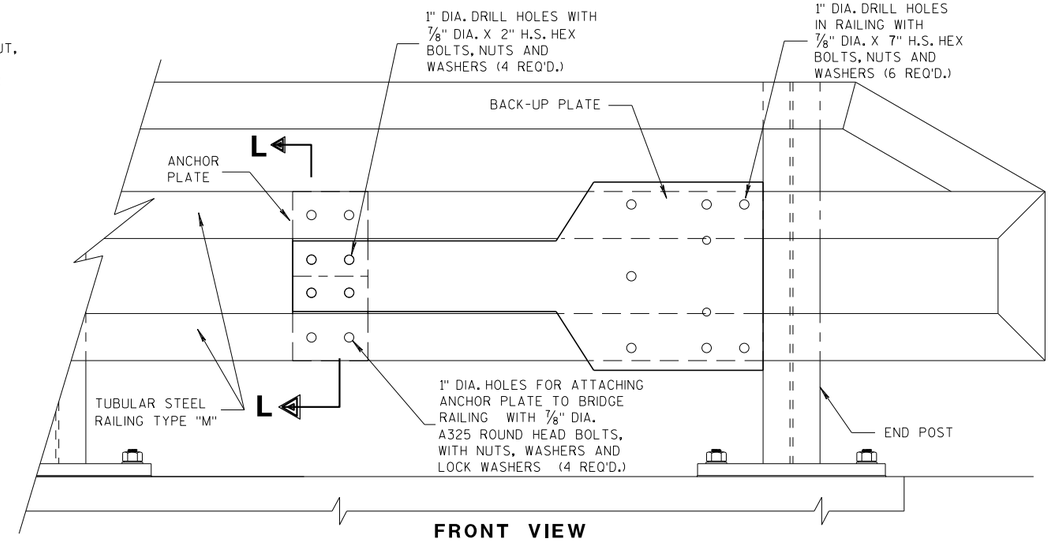
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

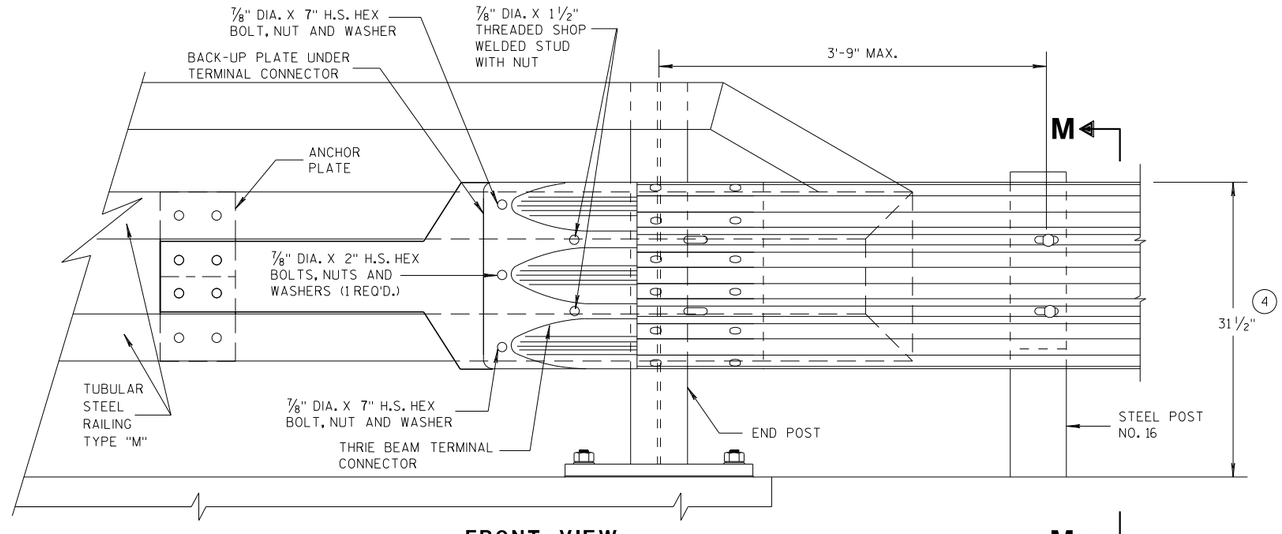


SECTION L-L

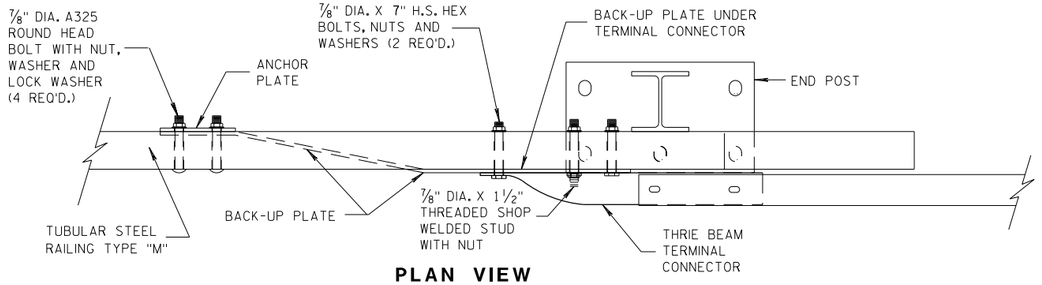


FRONT VIEW

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
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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.

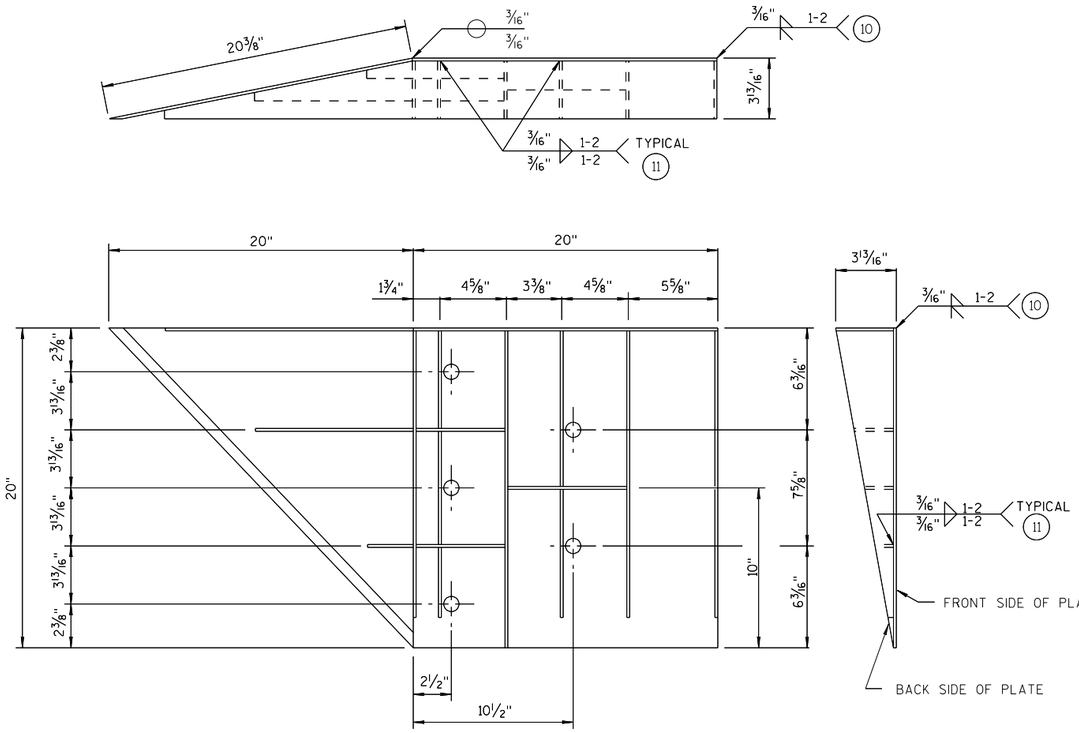
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

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".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

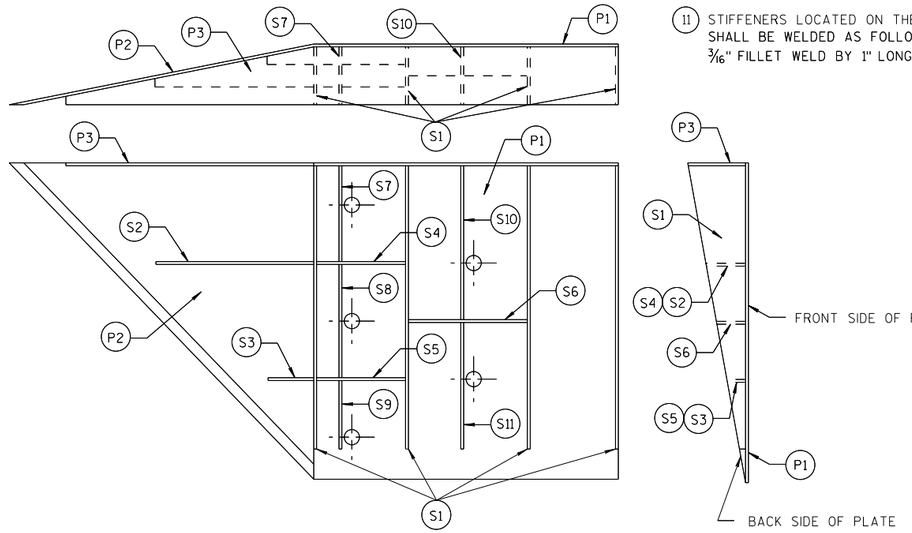


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

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)

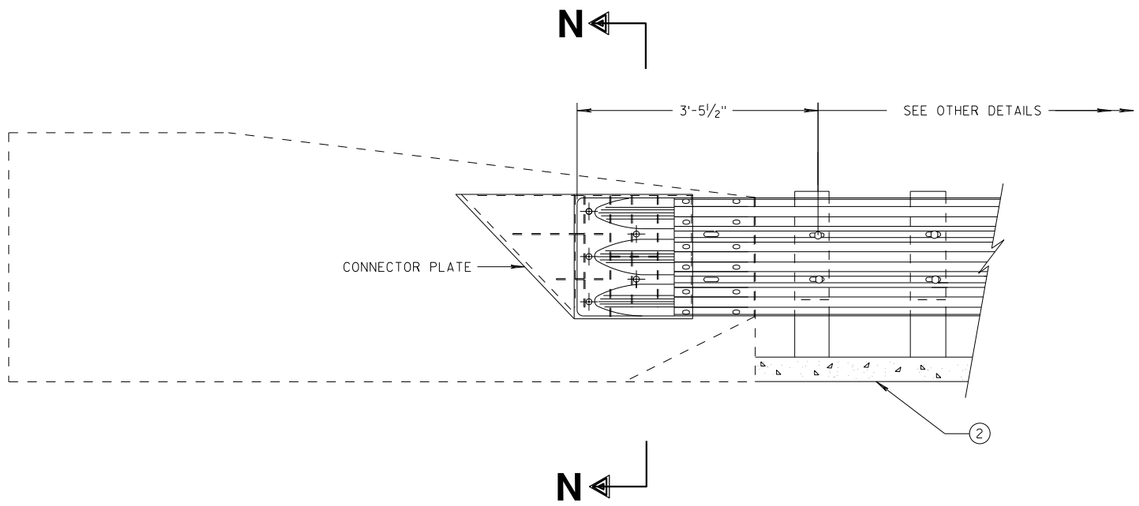
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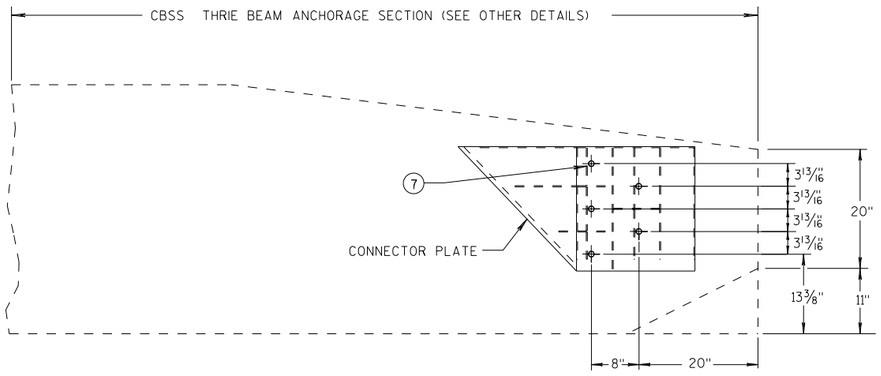
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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



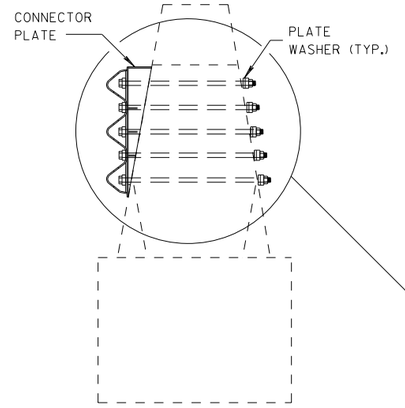
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

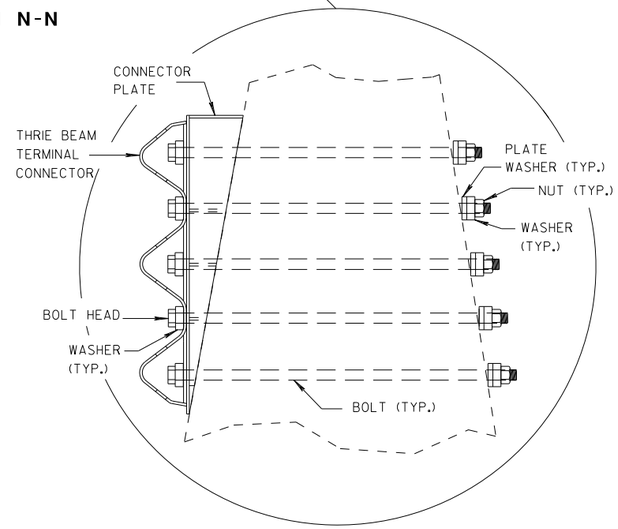
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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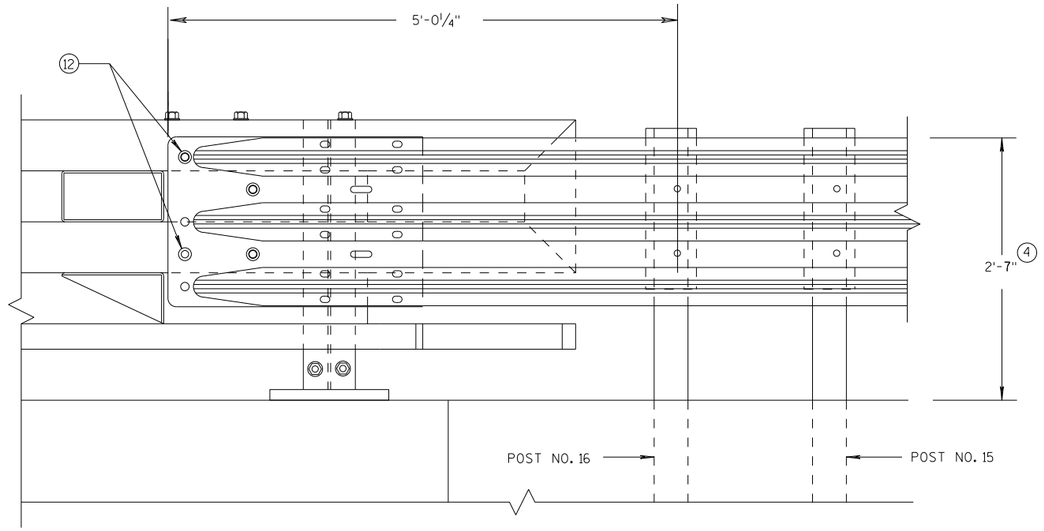
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UNIT SUPERVIS

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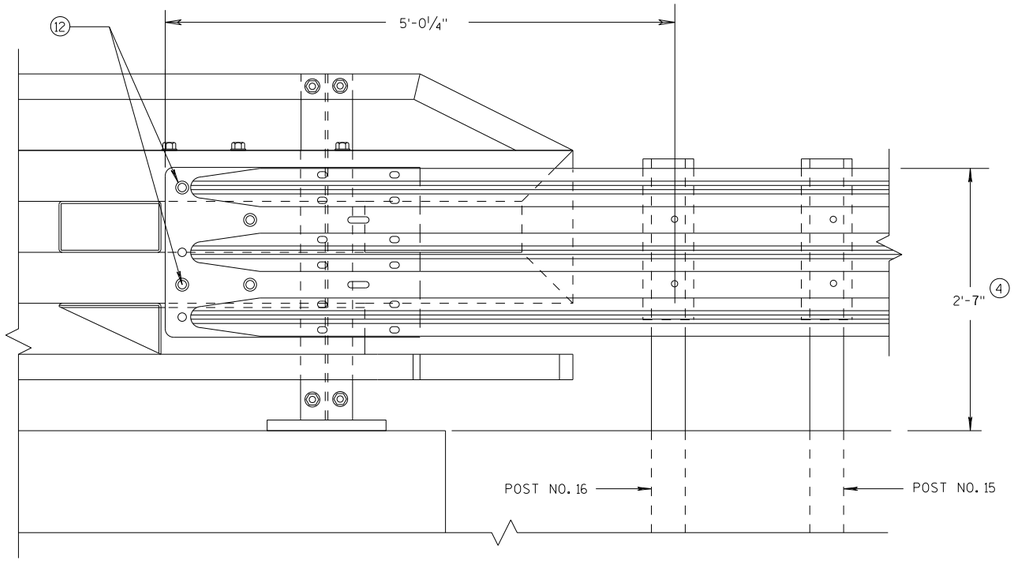
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ELEVATION OF DETAIL AT NY3 END POST

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

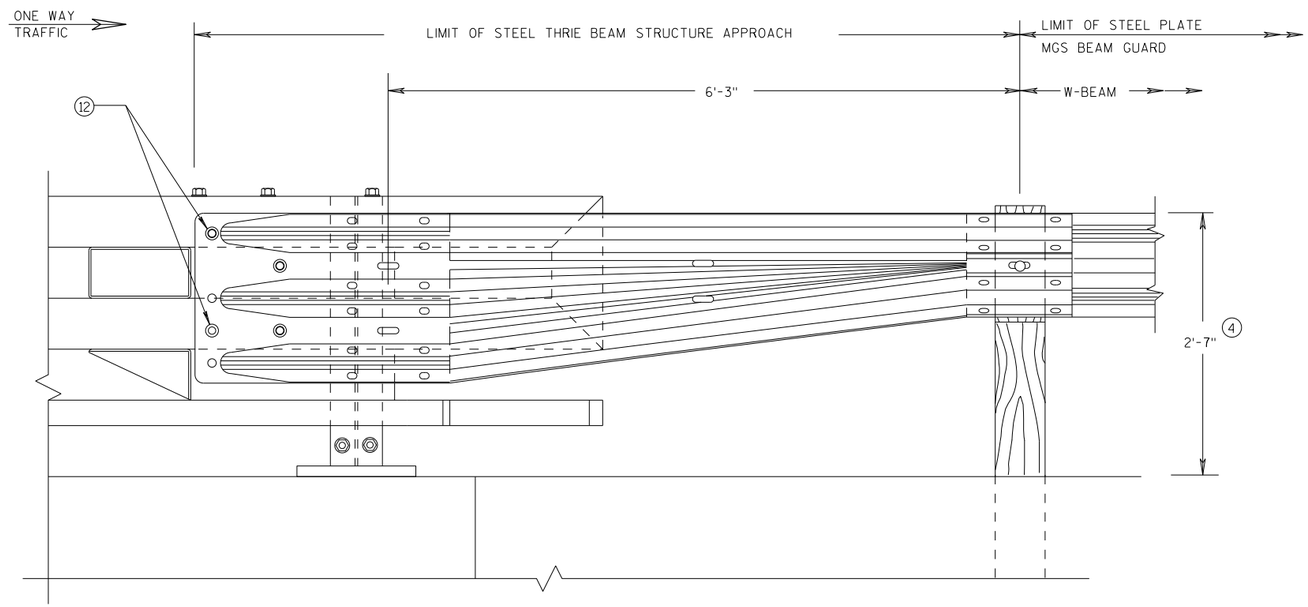
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FRONT VIEW

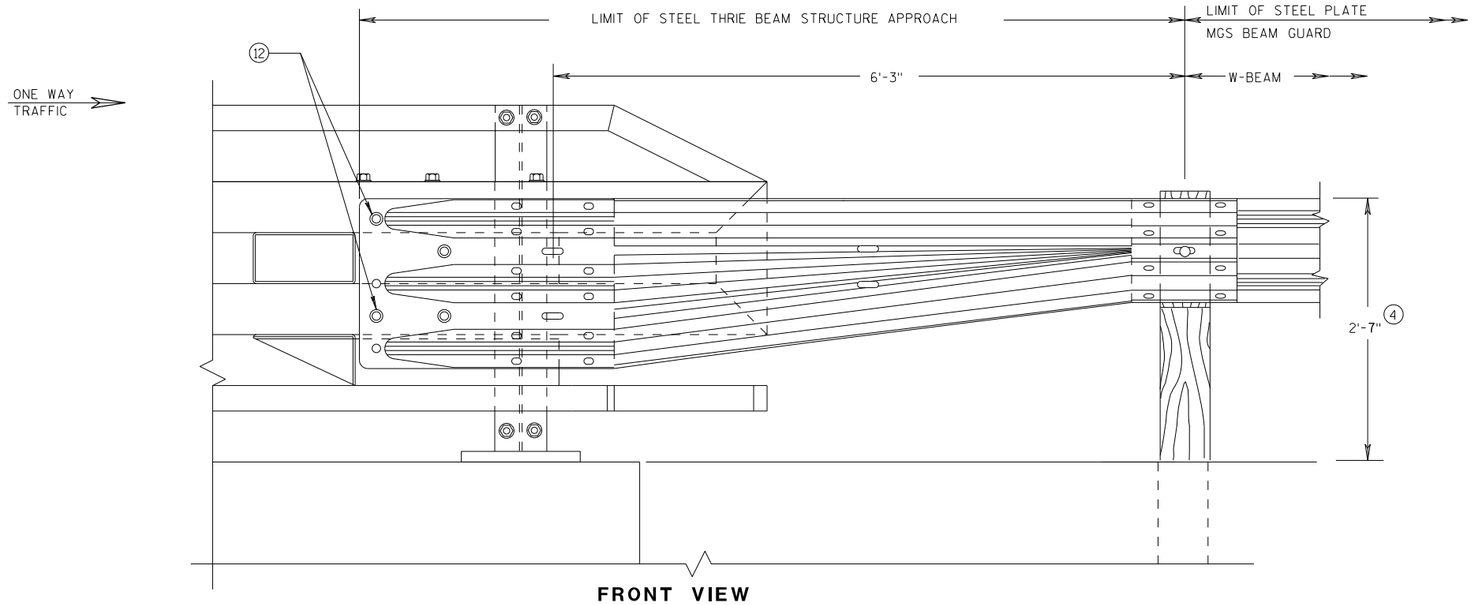
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

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

GENERAL NOTES

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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)

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DEPARTMENT OF TRANSPORTATION

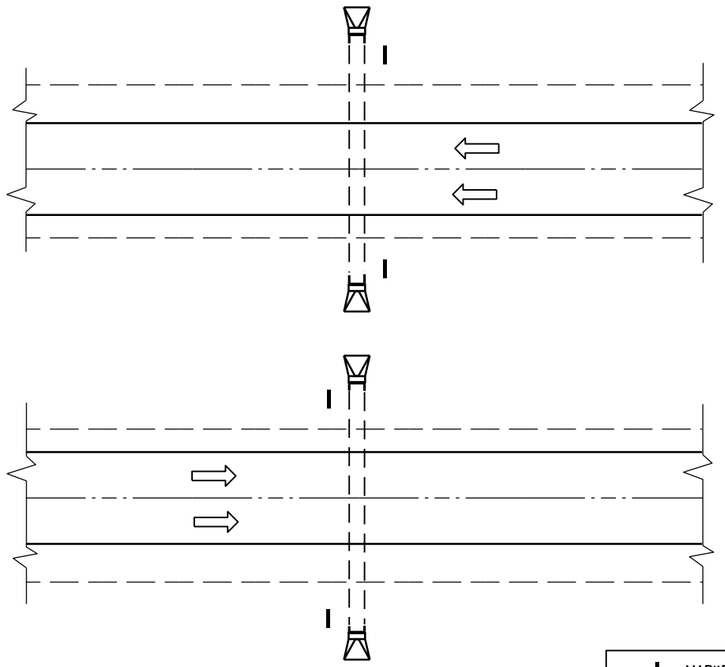
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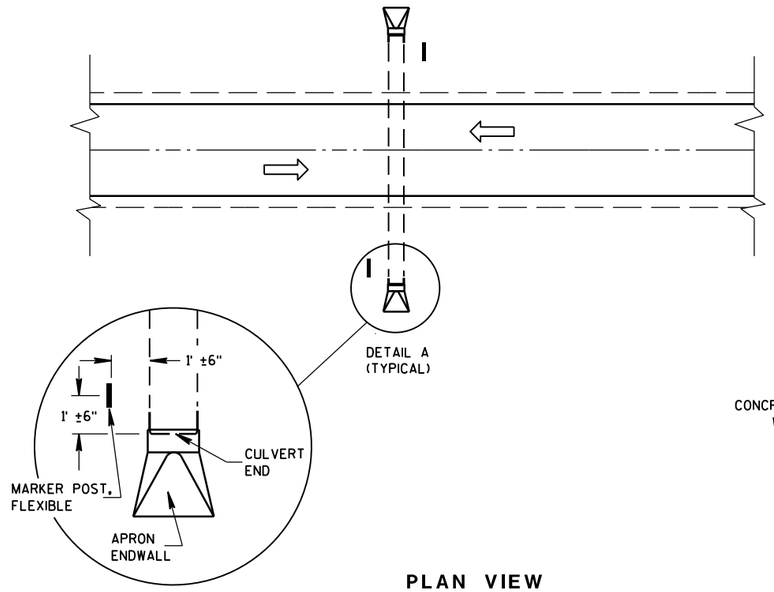
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S.D.D. 14 B 45-5L



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

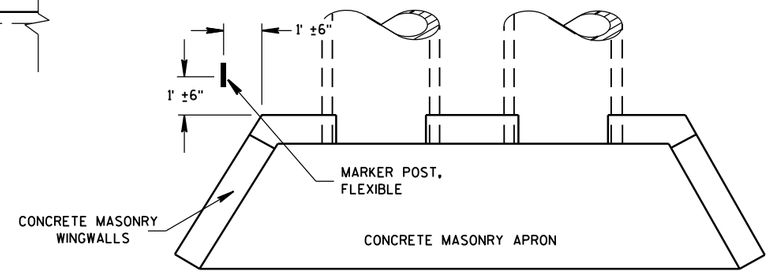
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

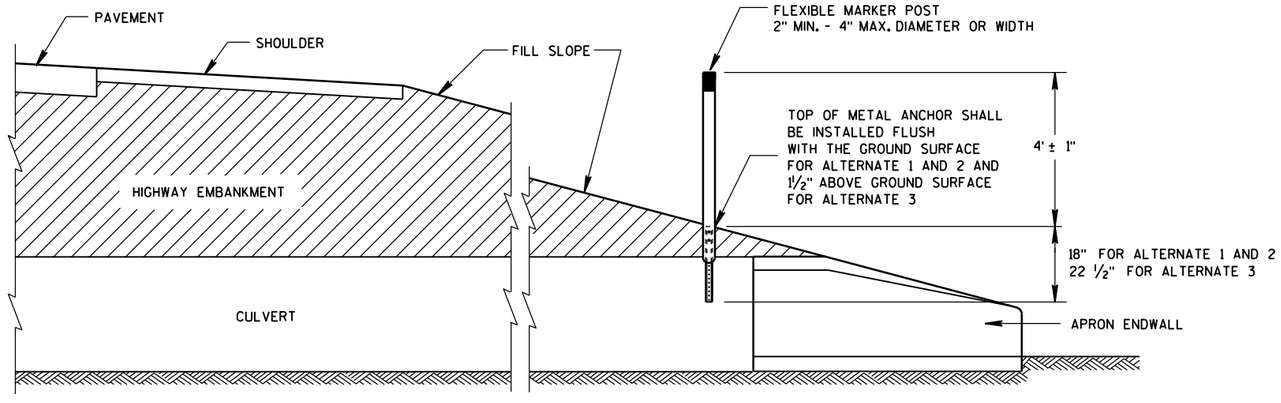
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

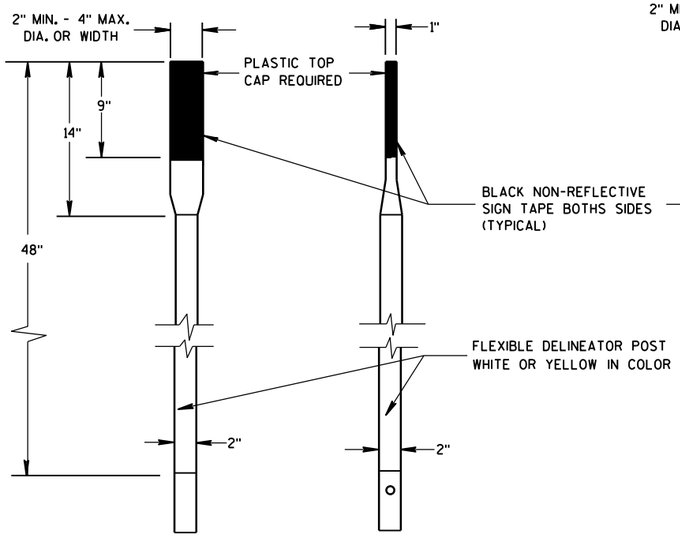
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

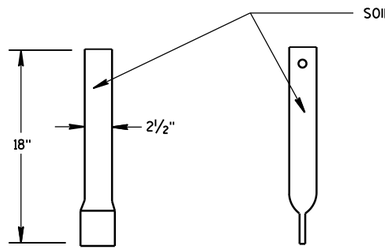
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S.D.D. 15 A 3-2a

6

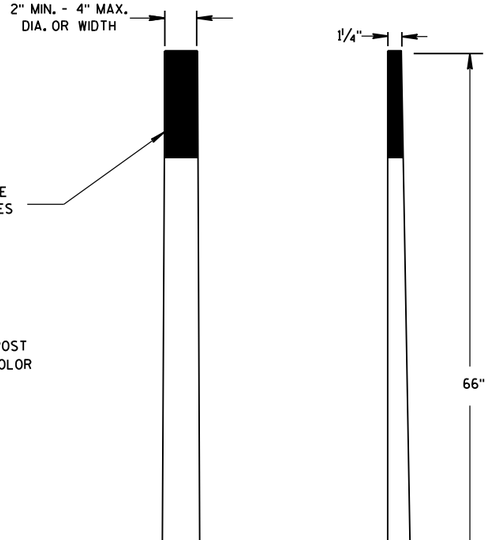
S.D.D. 15 A 3-2a





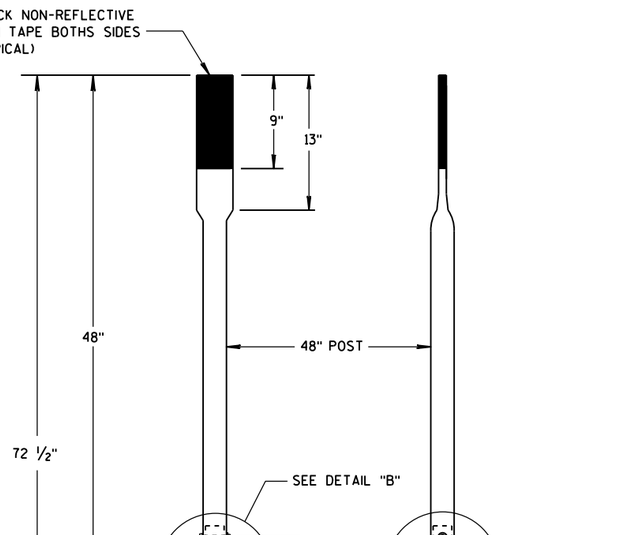
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

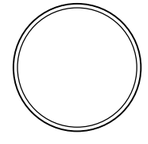
ALTERNATE 2



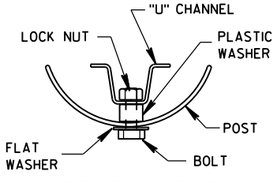
FRONT VIEW SIDE VIEW

ALTERNATE 3

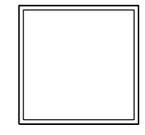
FLEXIBLE MARKER POSTS



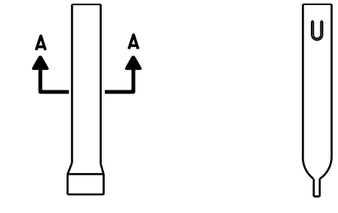
SECTION A-A



SECTION B-B

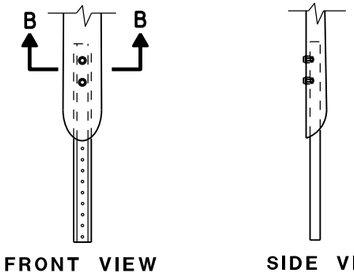


SECTION C-C



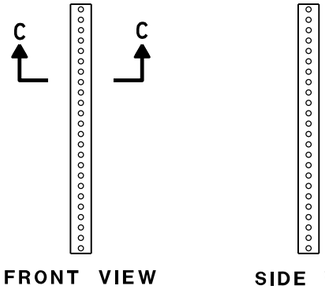
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

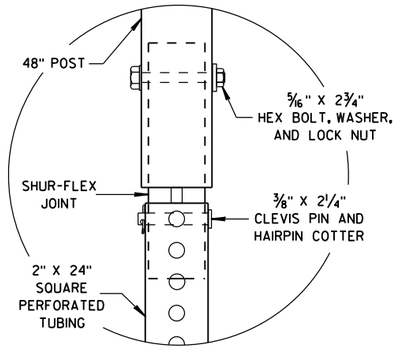
ALTERNATE 2



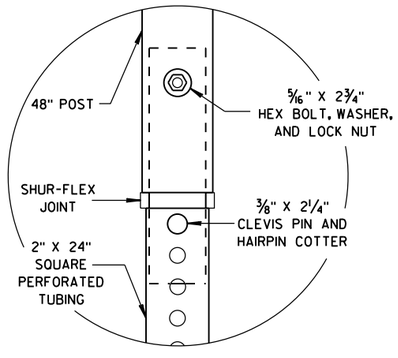
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

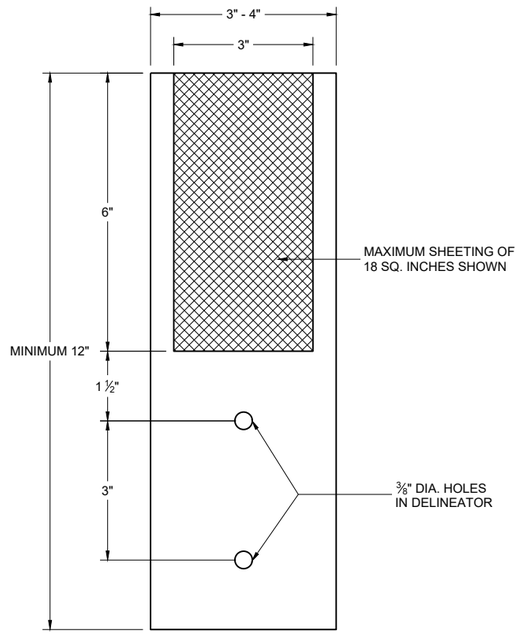
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

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

6

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



4" x 12" DELINEATOR
WITH REFLECTIVE SHEETING

REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3

DELINEATOR POST
WITH REFLECTIVE SHEETING

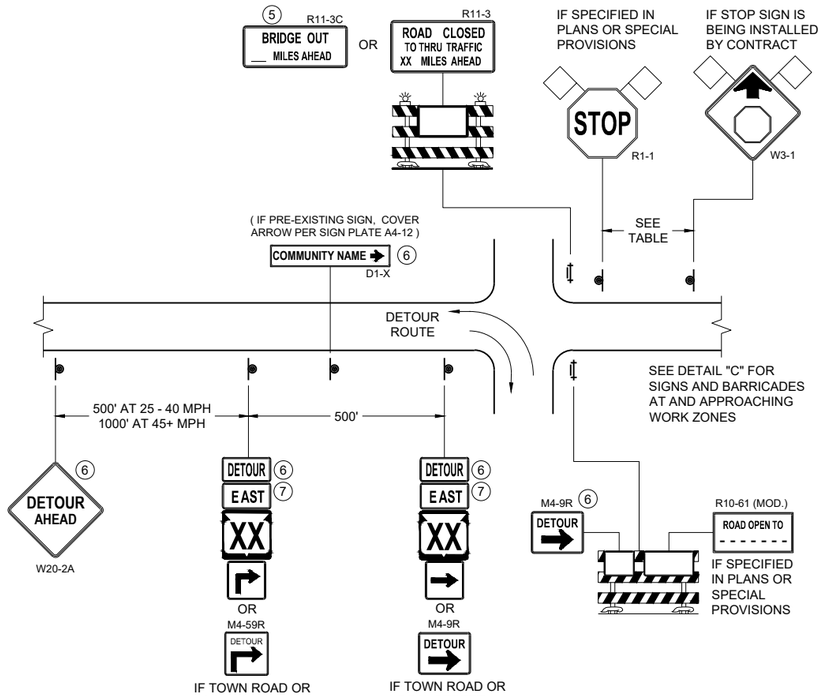
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

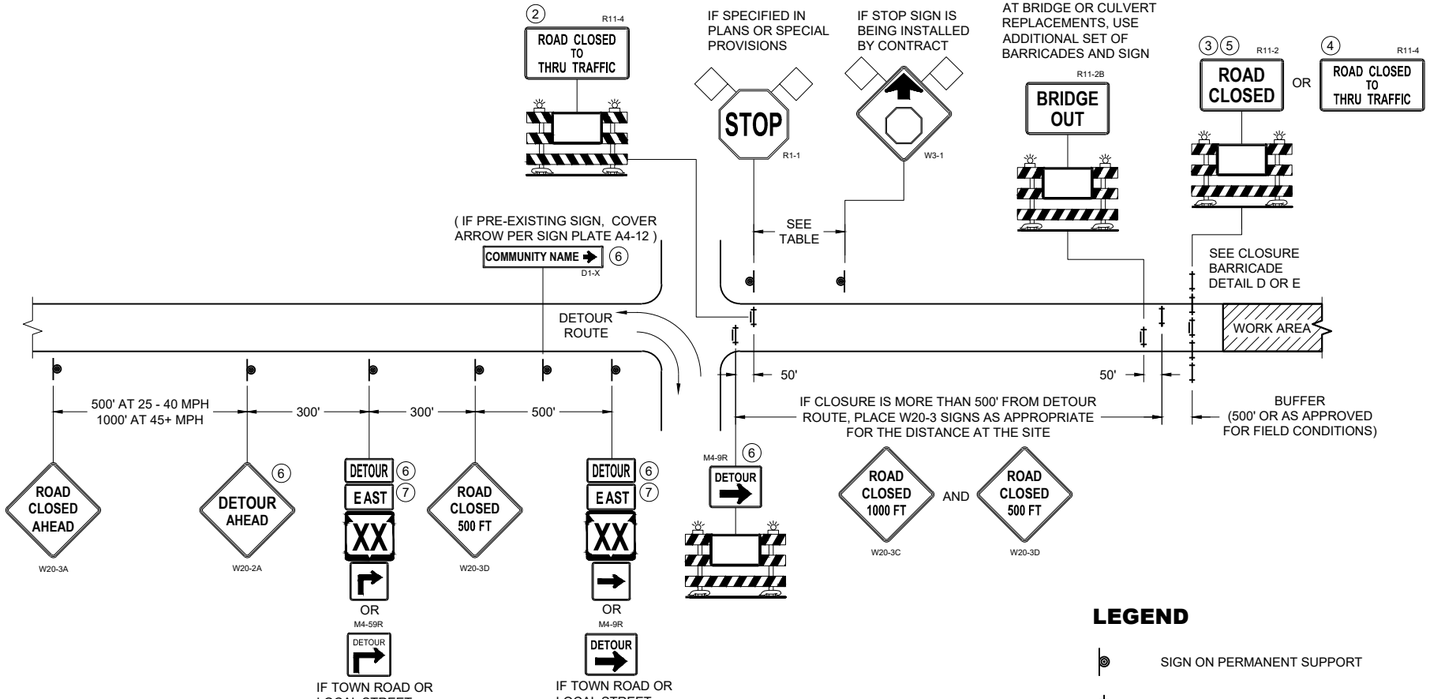
6
SDD 15A04-08e



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

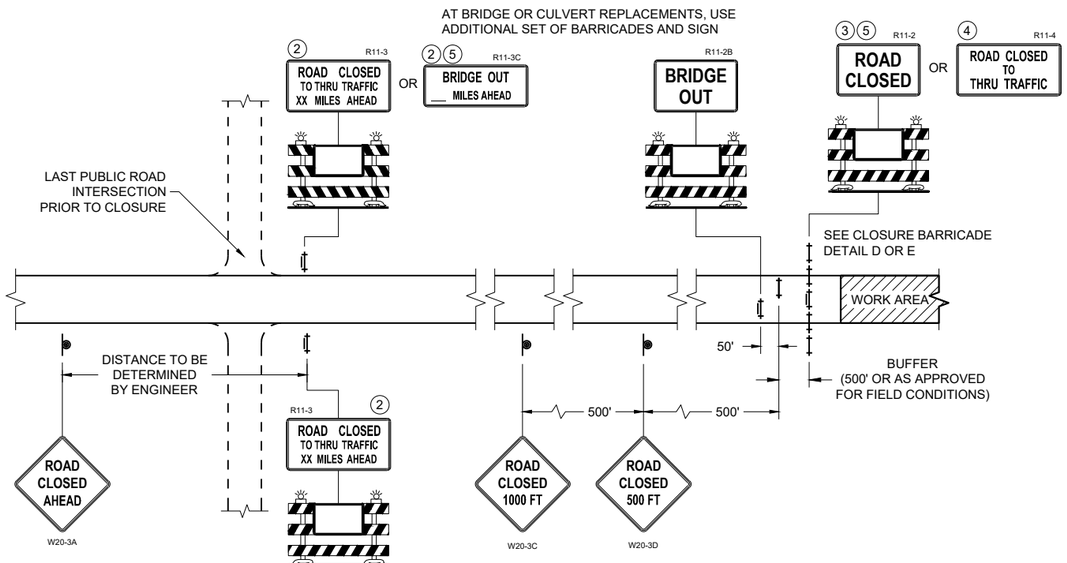
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

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)

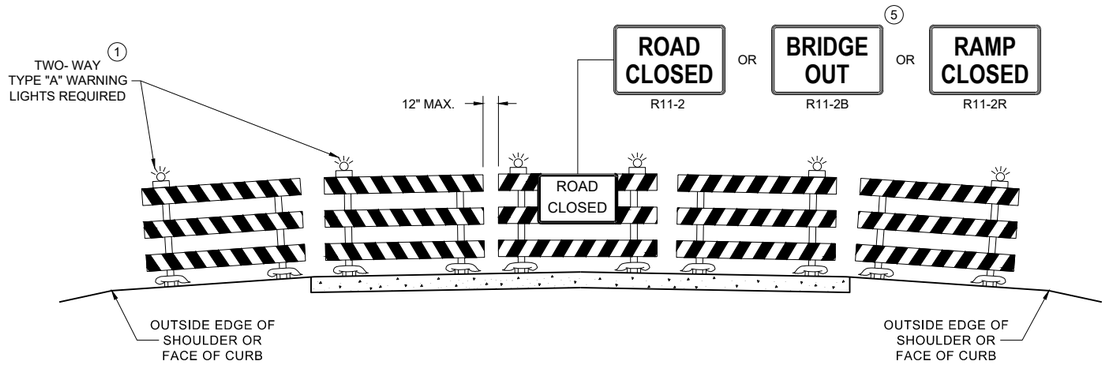
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

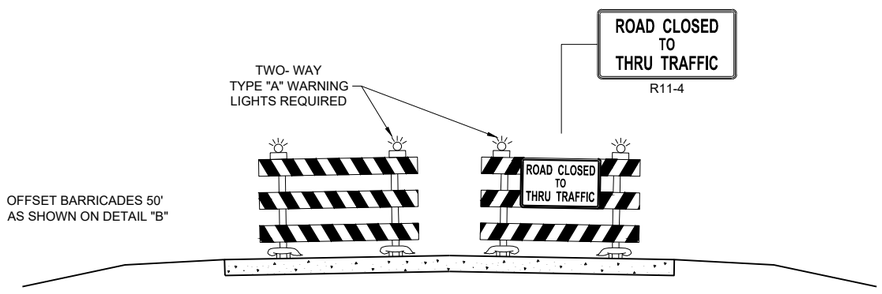
6
SDD 15C02-10a



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.

PARTIAL NUMBERS ON SIGNS SHALL BE DISPLAYED AS A WHOLE NUMBER(AS NEEDED) FOLLOWED BY A FRACTION. SIGNS SHALL NOT DISPLAY NUMBERS IN DECIMAL FORM.

"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"

SIGNS PLACED ON TYPE III BARRICADES THAT ARE SIZES OTHER THAN 48"X30" SHALL HAVE A CORRUGATED POLYPROPYLENE OR POLYETHYLENE PLASTIC SIGN BASE.

(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
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15C02-10b

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.

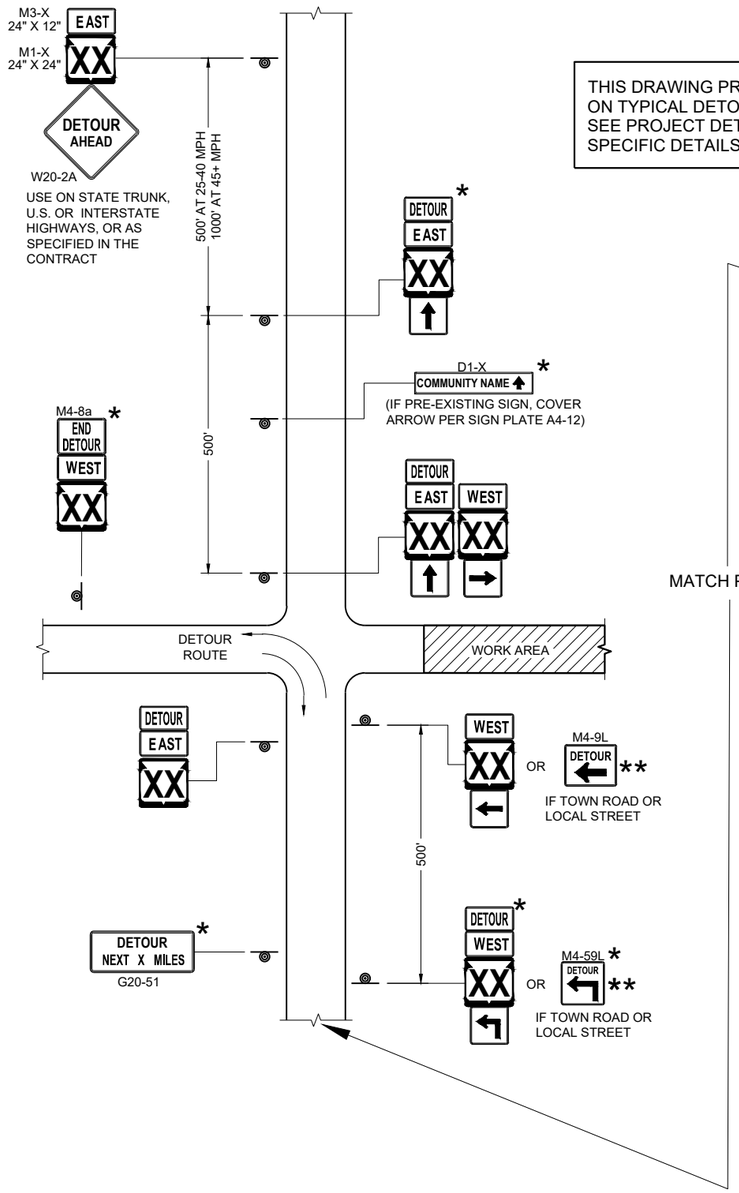
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

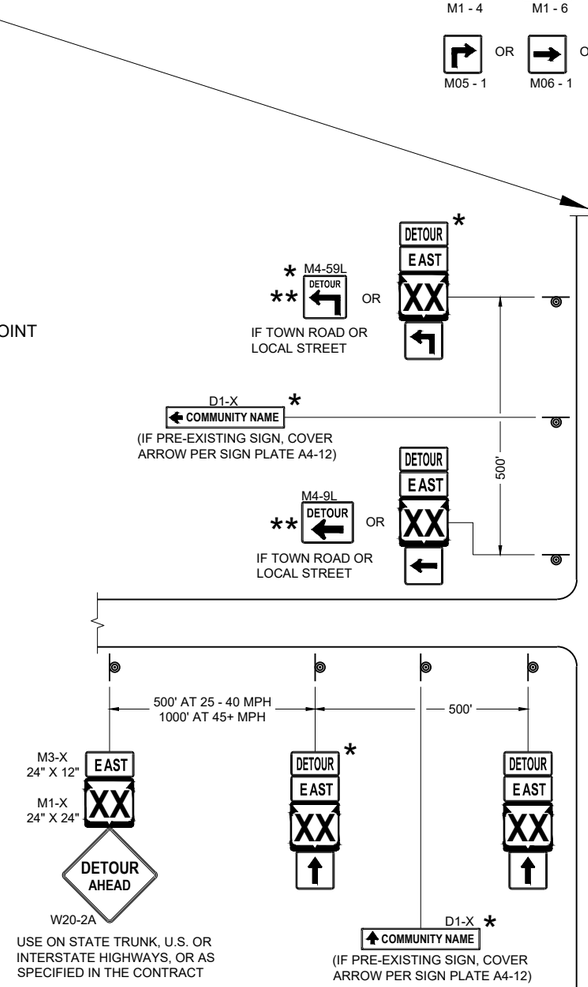
SIGN SIZES SHALL BE AS FOLLOWS:

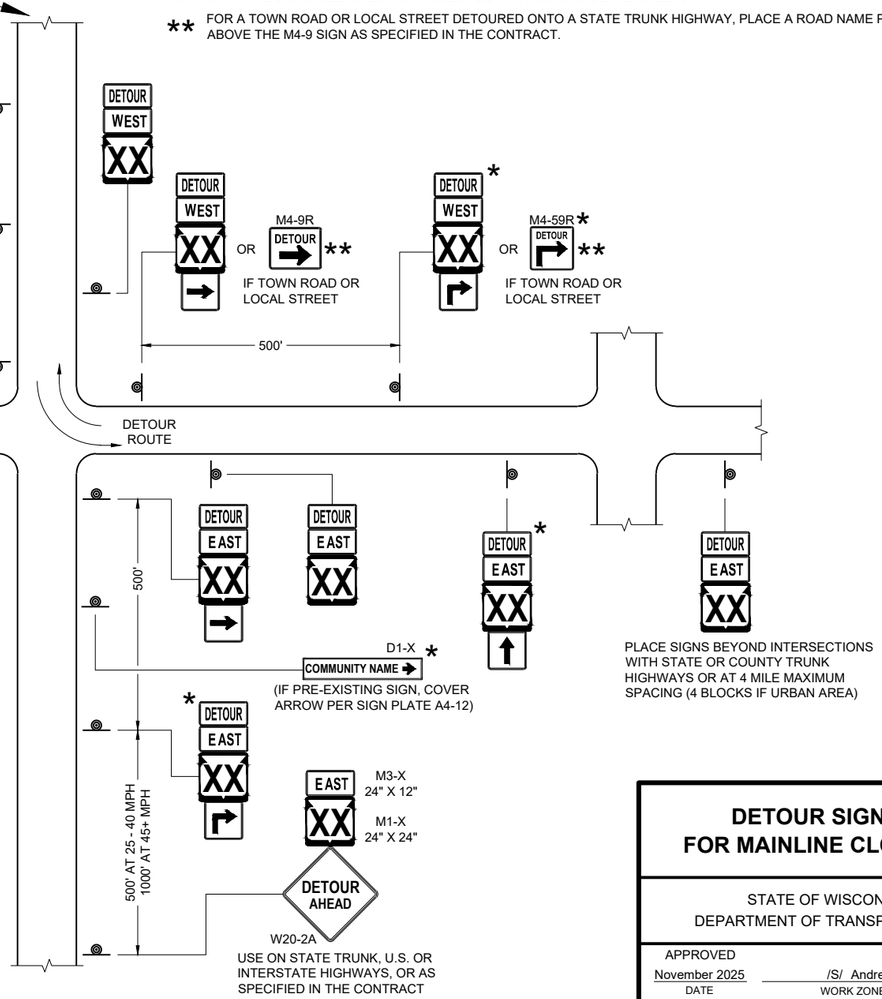
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING 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

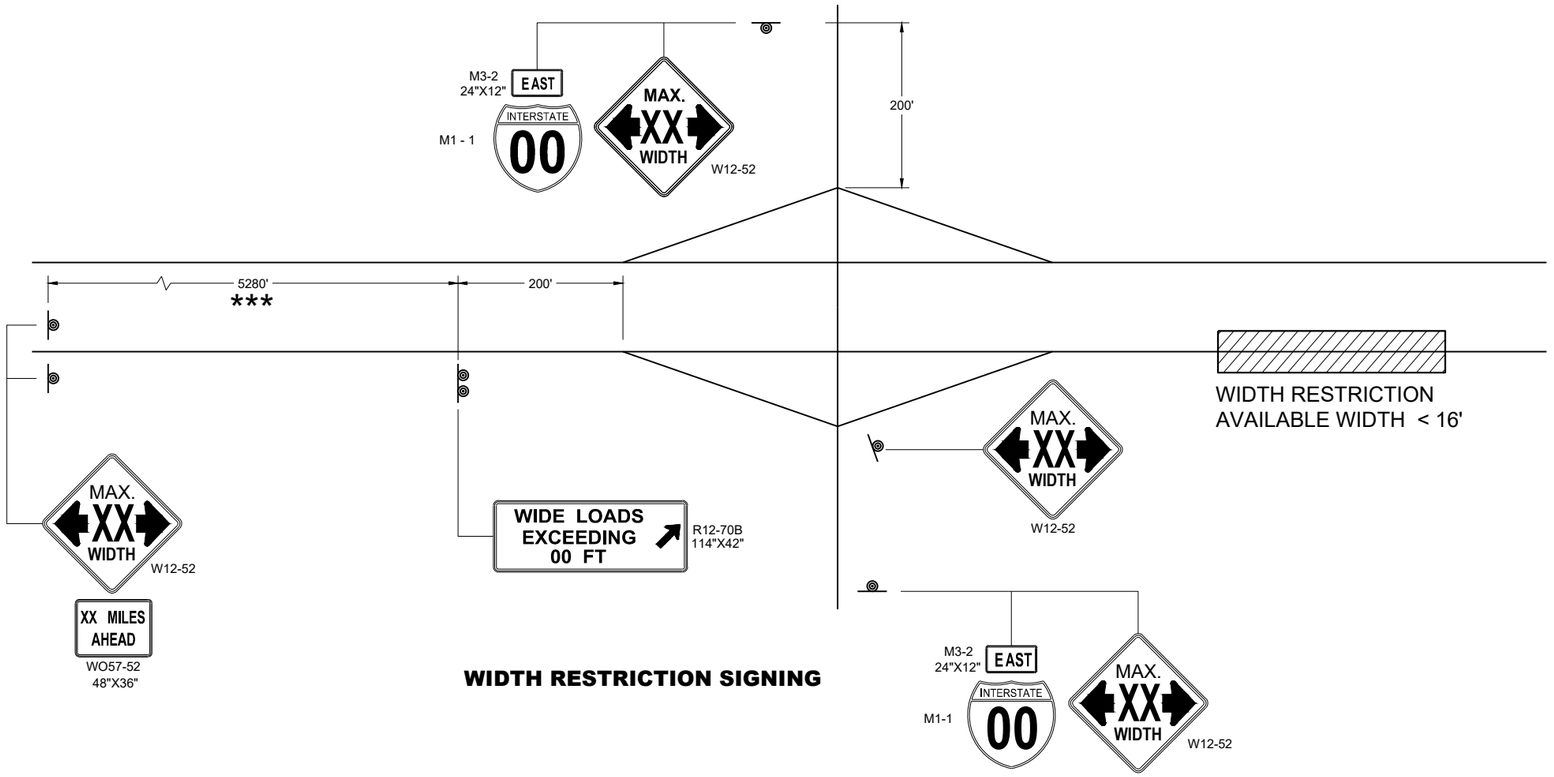
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15C02-10c



WIDTH RESTRICTION SIGNING

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.

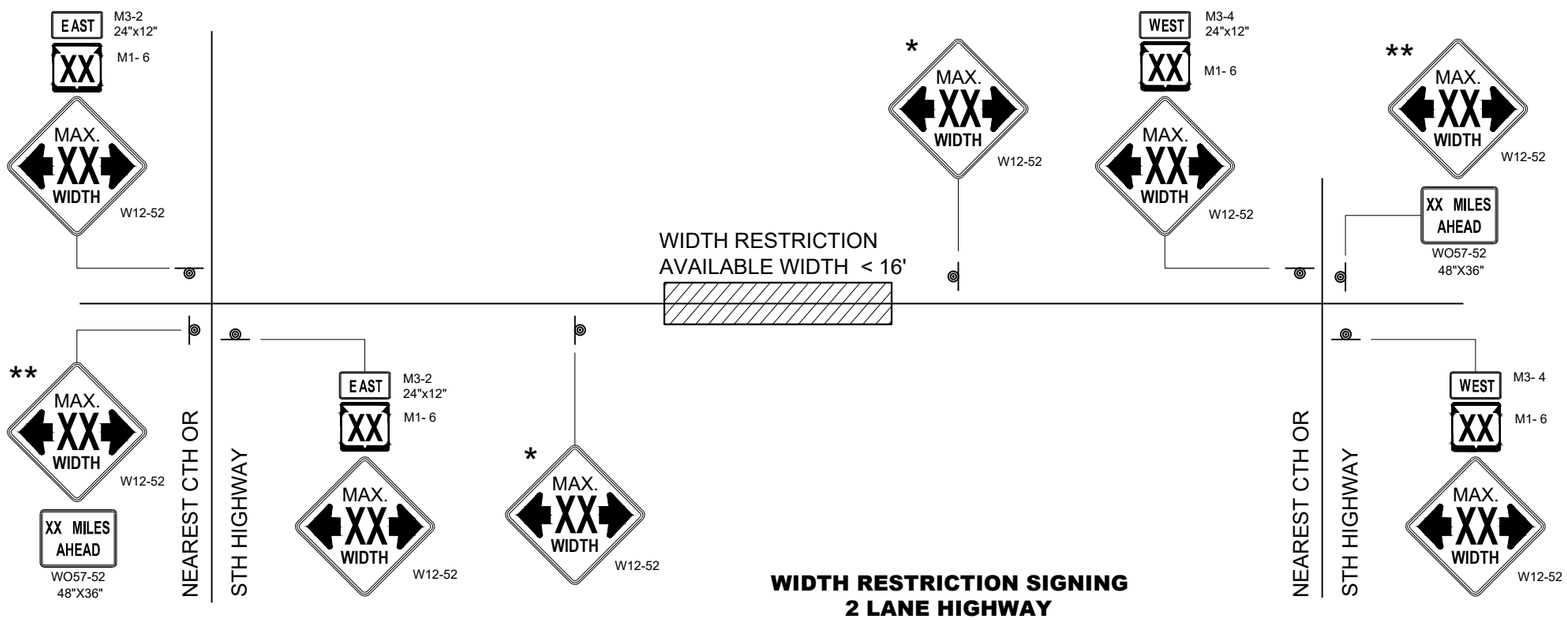
* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** 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



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

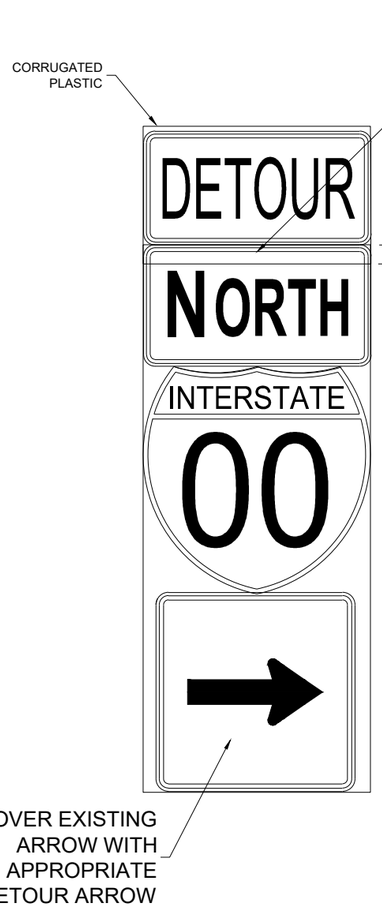
FHWA

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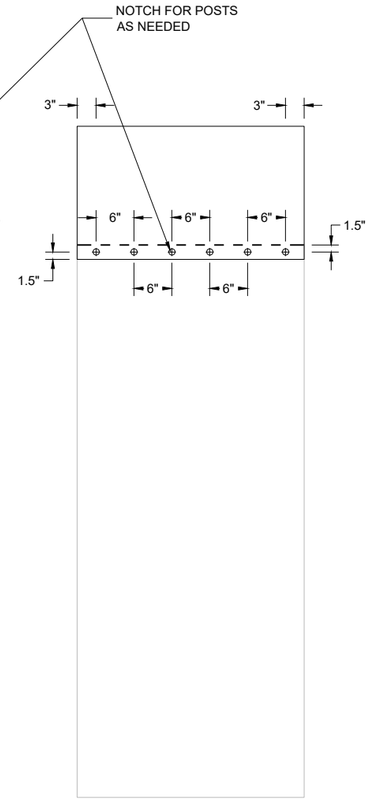
SDD 15C02-10f

SDD 15C02-10f

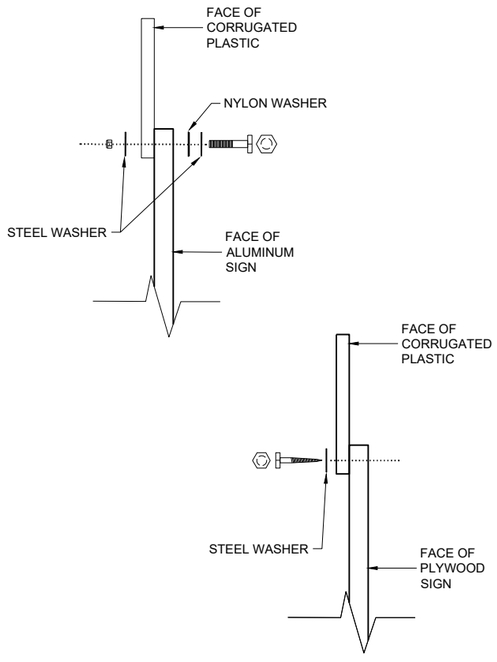
FRONT SIDE



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
DEPARTMENT OF TRANSPORTATION

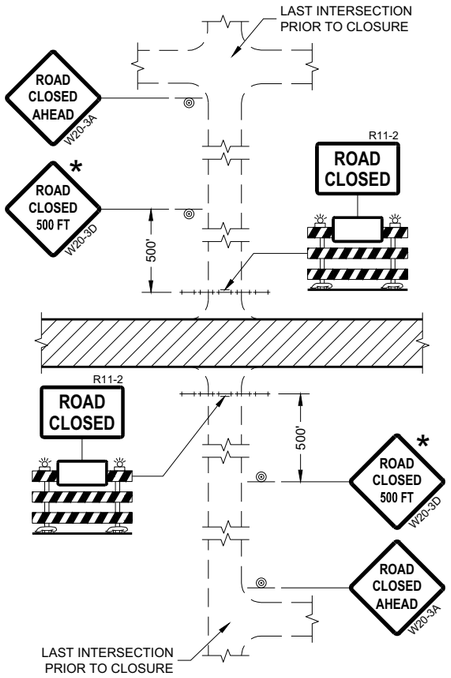
APPROVED
November 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

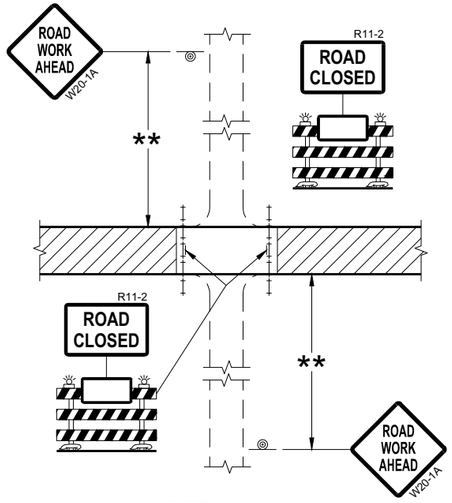
FHWA

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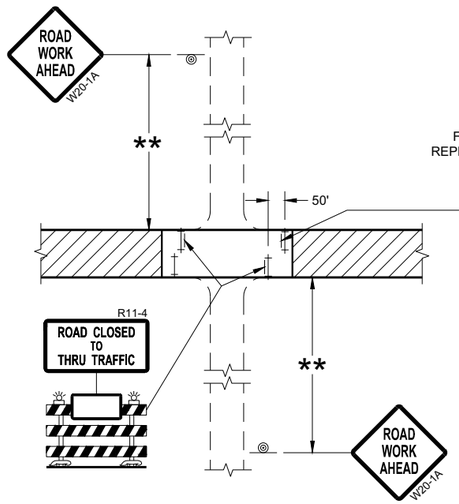
SDD 15C02-10h



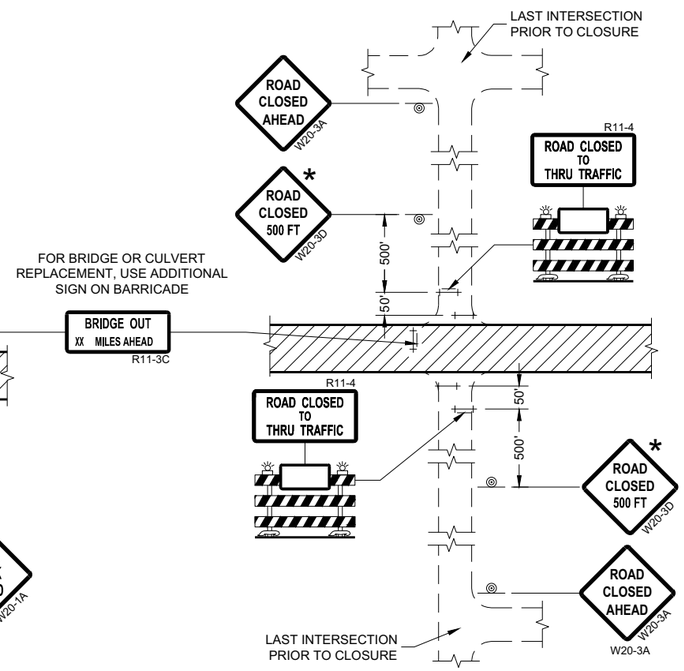
DETAIL 1
(NO ACCESS TO PROJECT)



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



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



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT 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.

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

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.

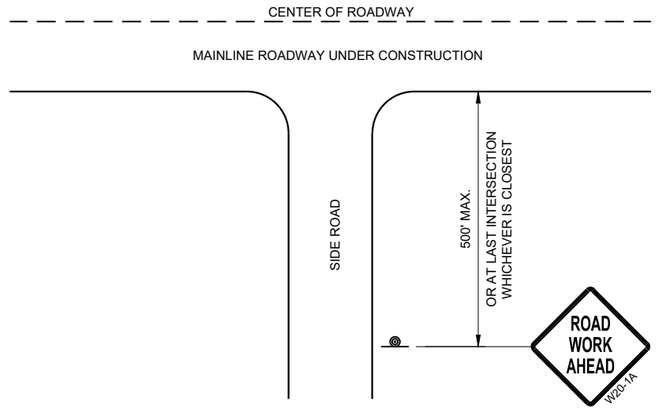
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

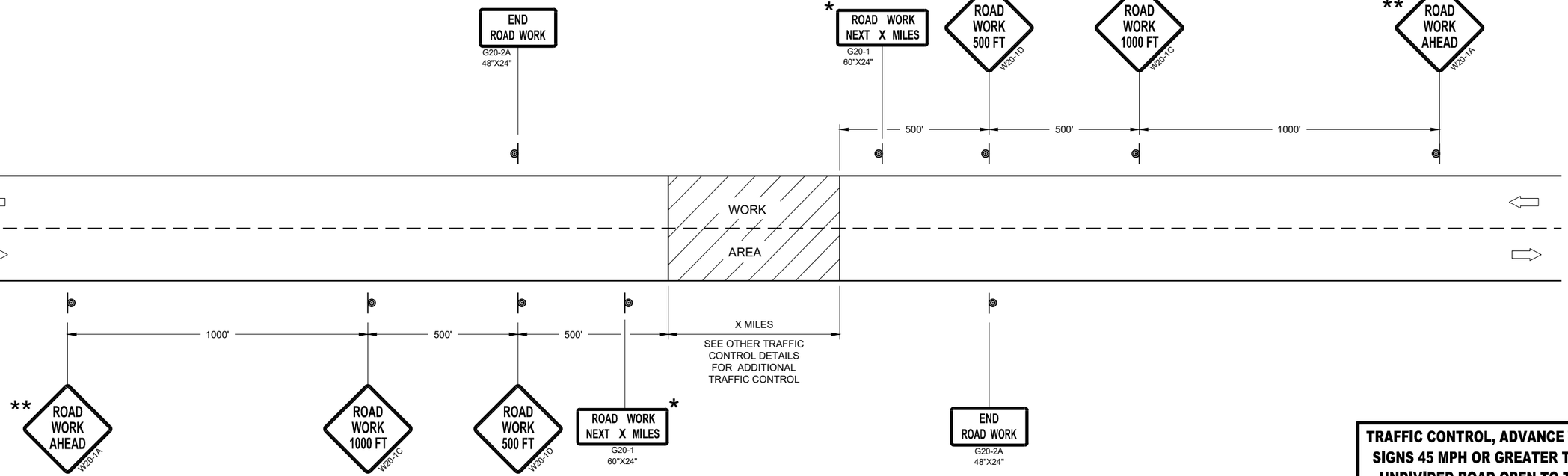
** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



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

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SDD 15C04 - 05

GENERAL NOTES

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

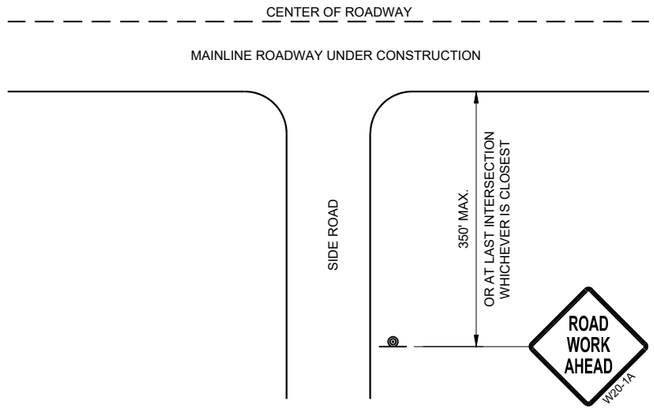
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.



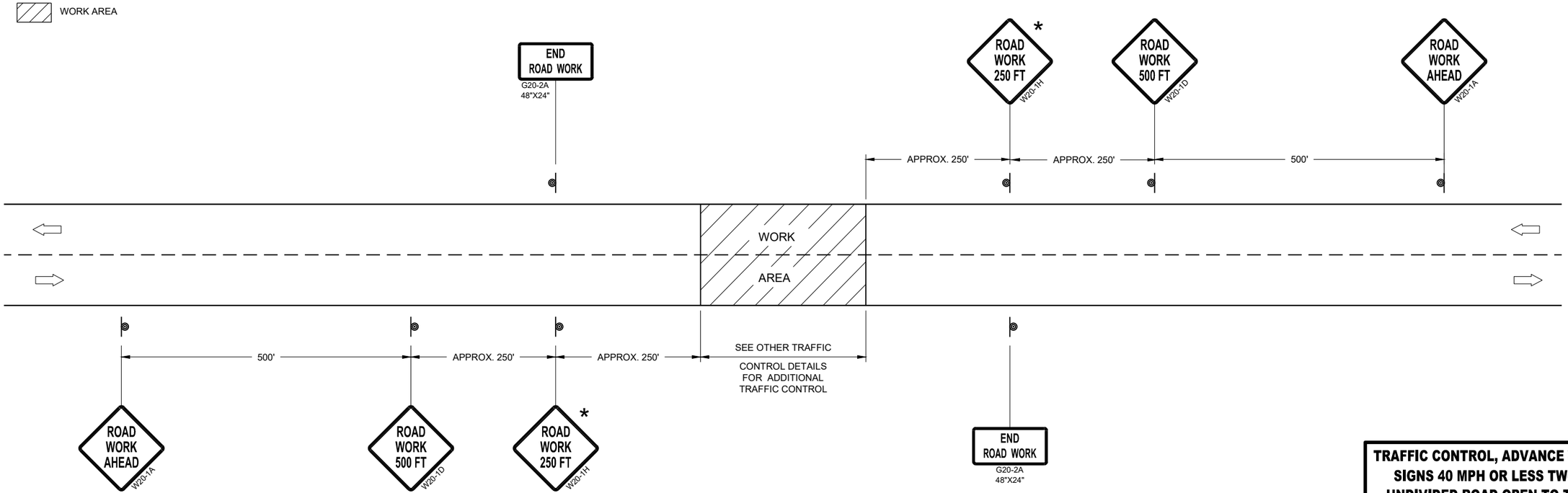
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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

6

SDD 15C05 - 05

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.

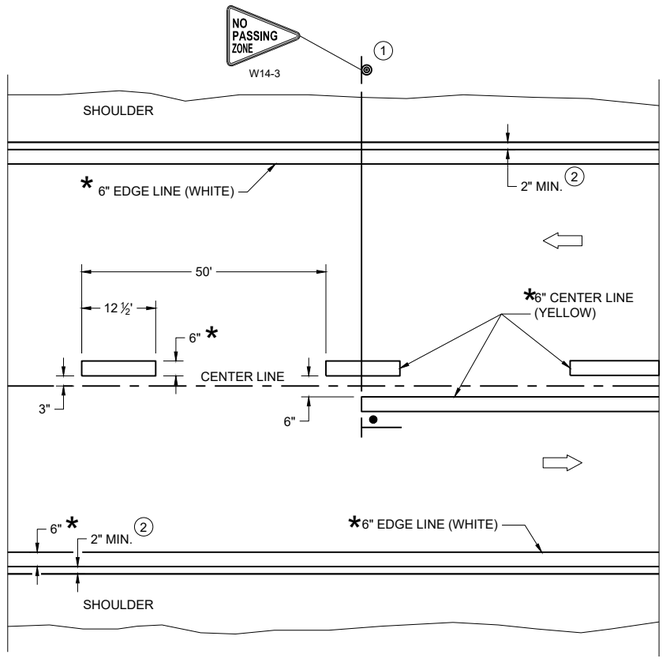
LEGEND

"T" MARKING

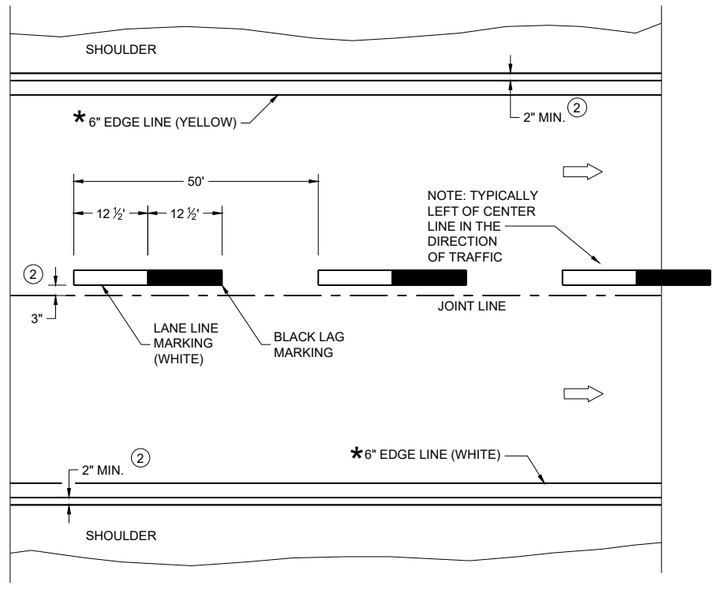
SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

SDD 15C08-24a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

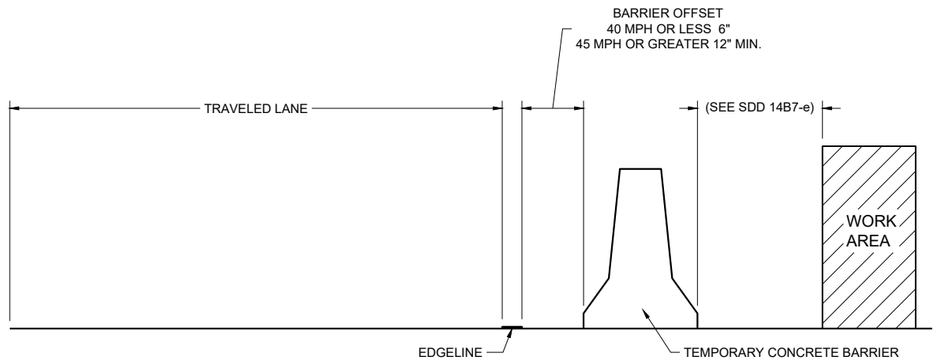
APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C08-24a



TEMPORARY BARRIER OFFSET FROM EDGELINE

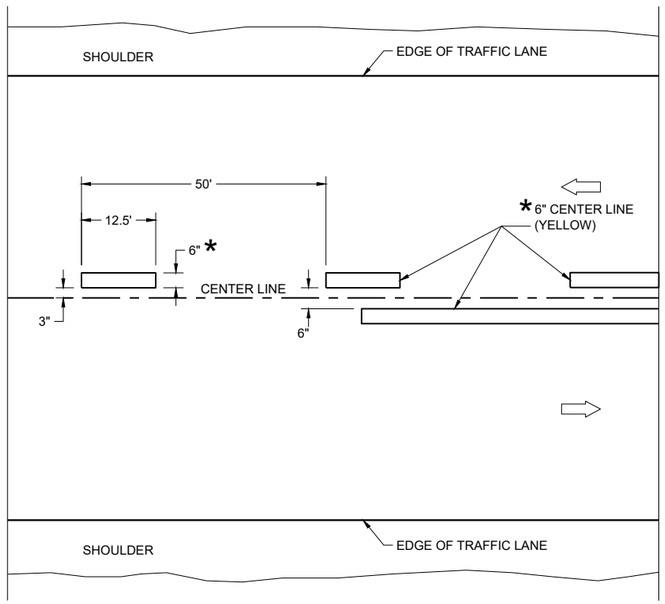
GENERAL NOTES

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

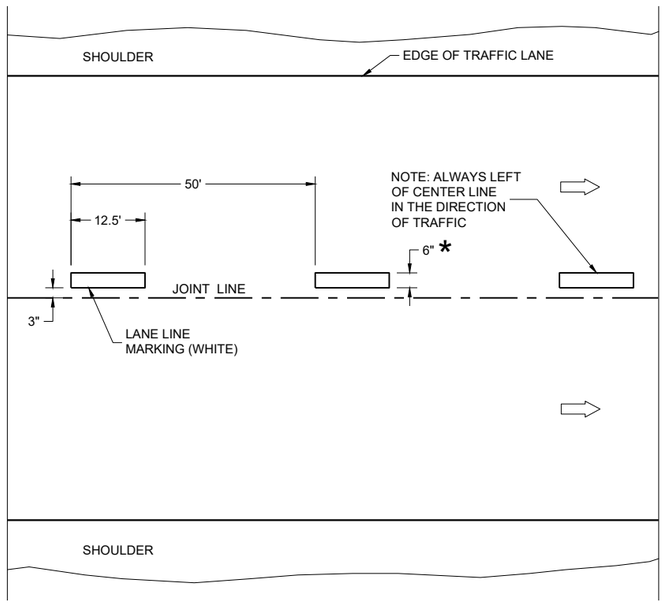
LEGEND

DIRECTION OF TRAFFIC

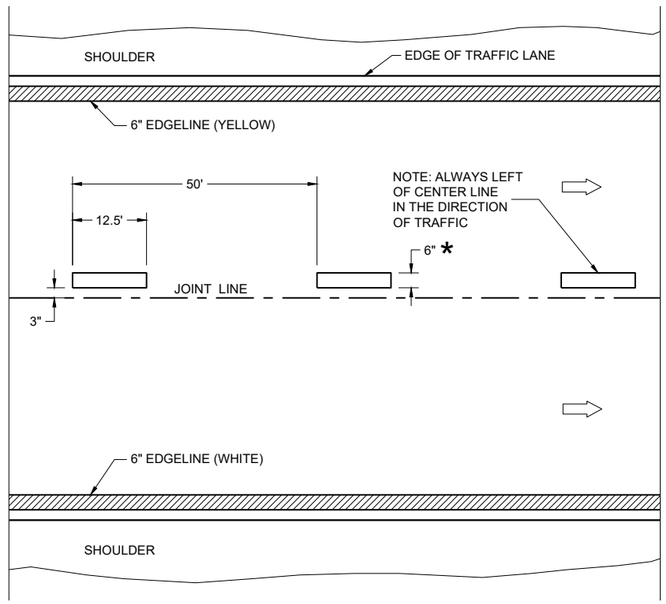
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



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

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SDD 15C08-24b

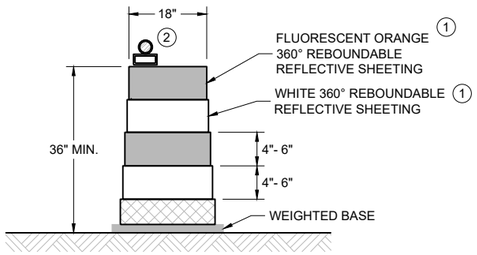
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SDD 15C08-24b

GENERAL NOTES

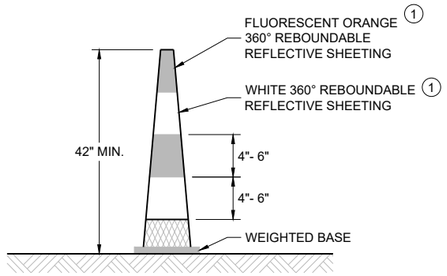
(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

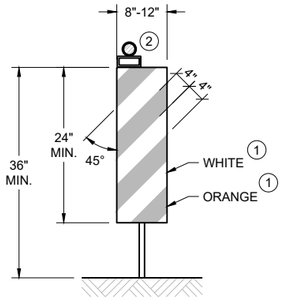
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

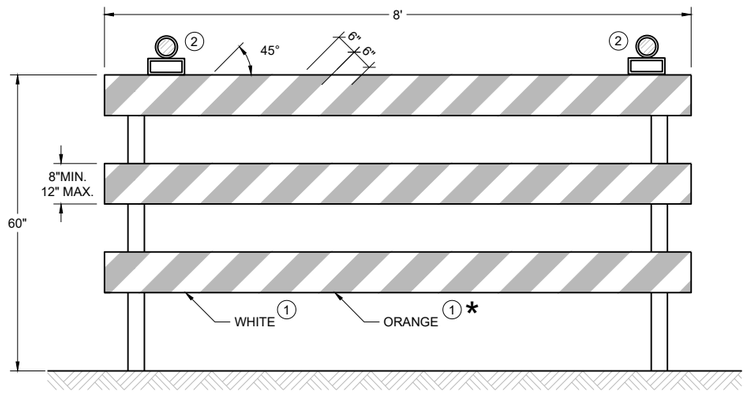
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



VERTICAL PANEL

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



TYPE 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
February 2026 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6
SDD 15C11-11b

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.

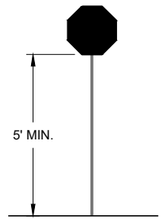
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

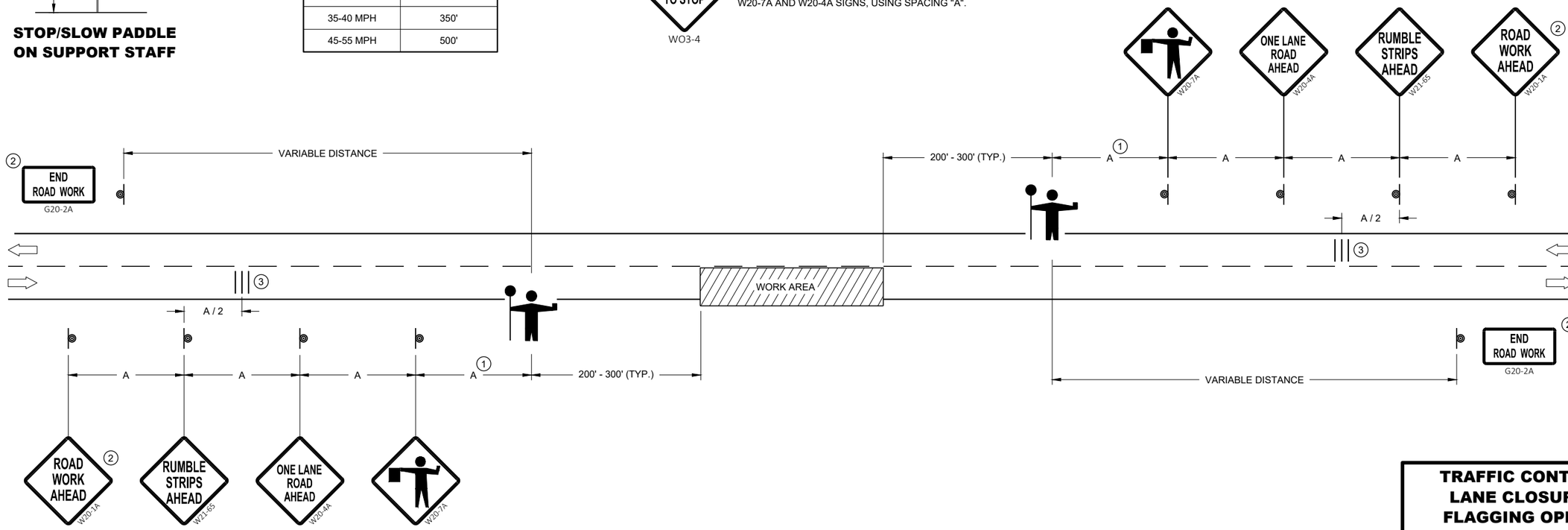
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

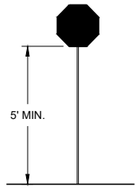
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

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.

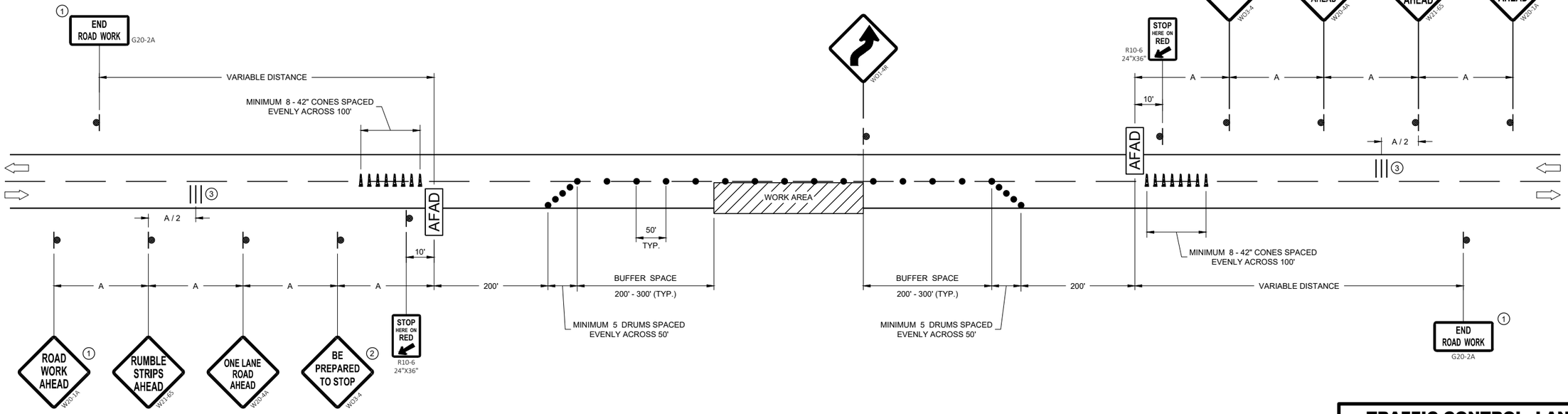
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



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

WORKERS SHALL NOT PERFORM WORK FROM ANY SHADOW OR PROTECTION VEHICLES.

UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

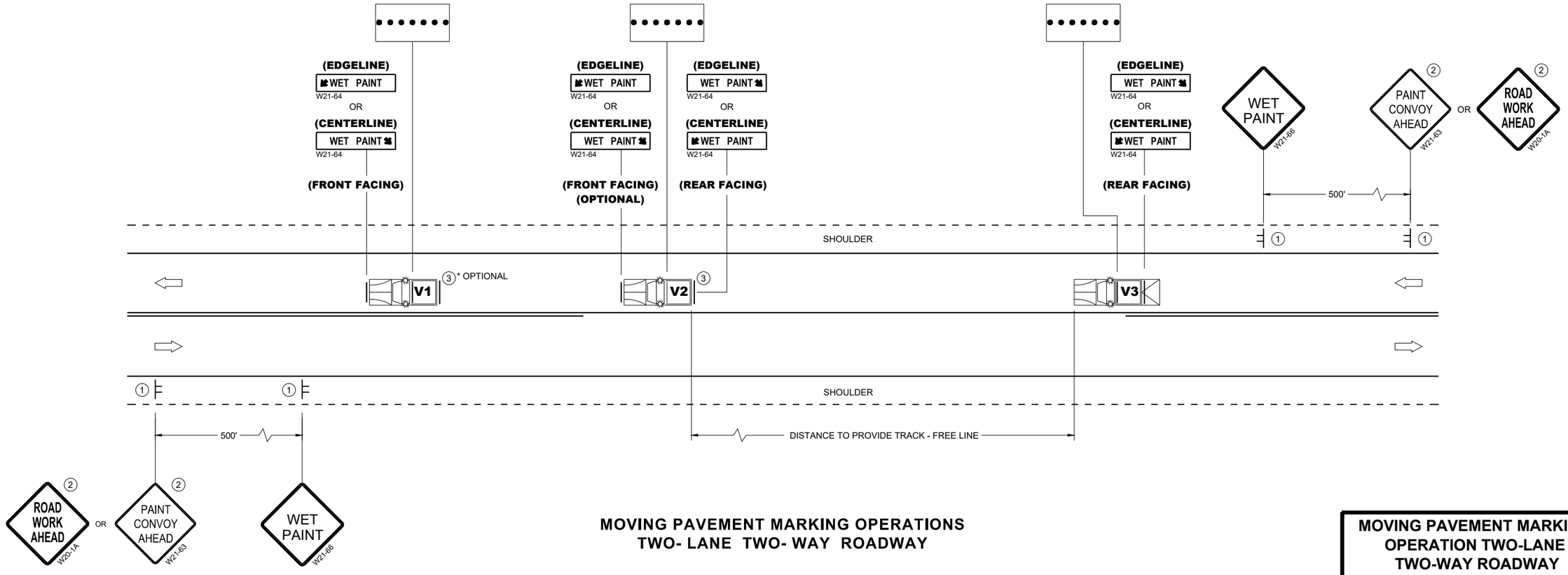
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

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
November 2025 — DATE
/S/ Andrew Heidtke — STATE ELECTRICAL ENGINEER

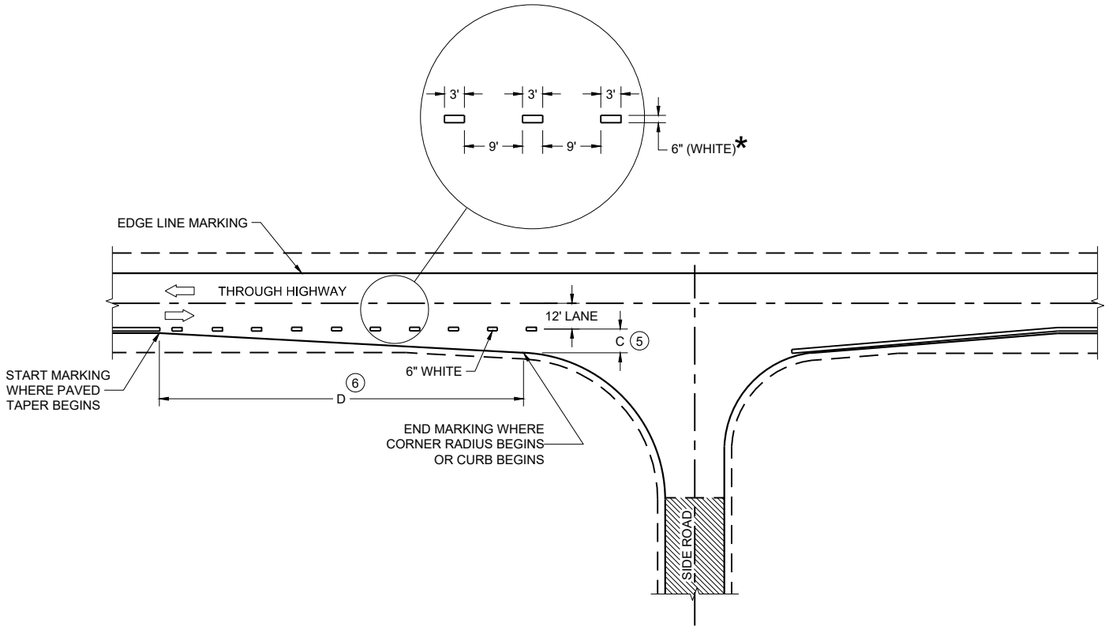
FHWA

6

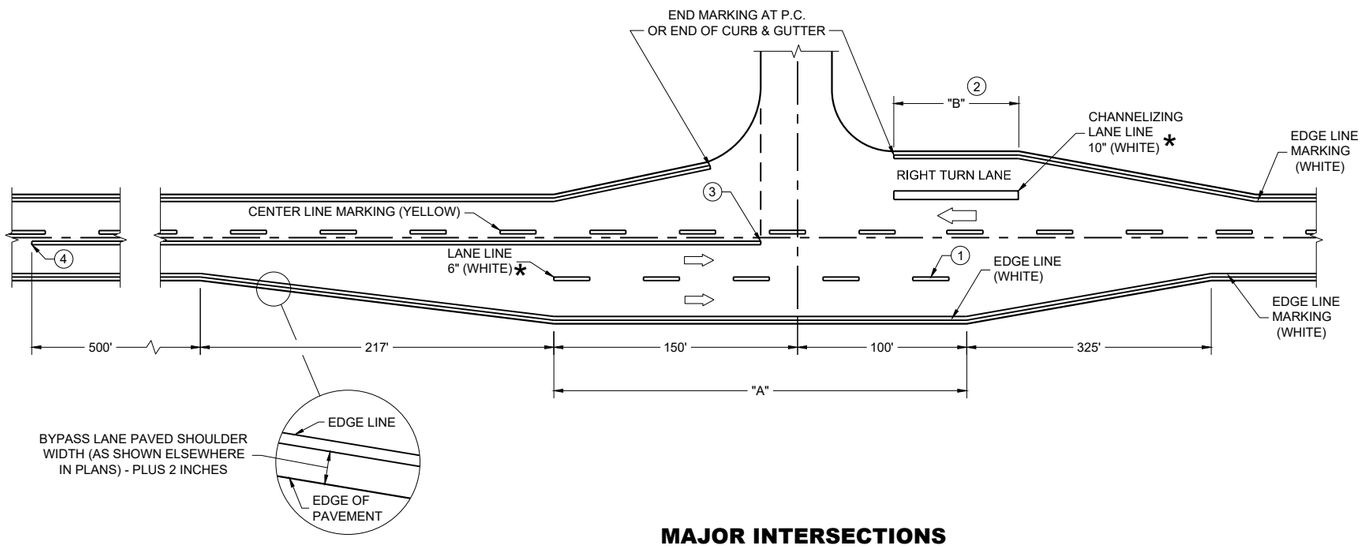
SDD 15C19-11a

6

SDD 15C19-11a



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

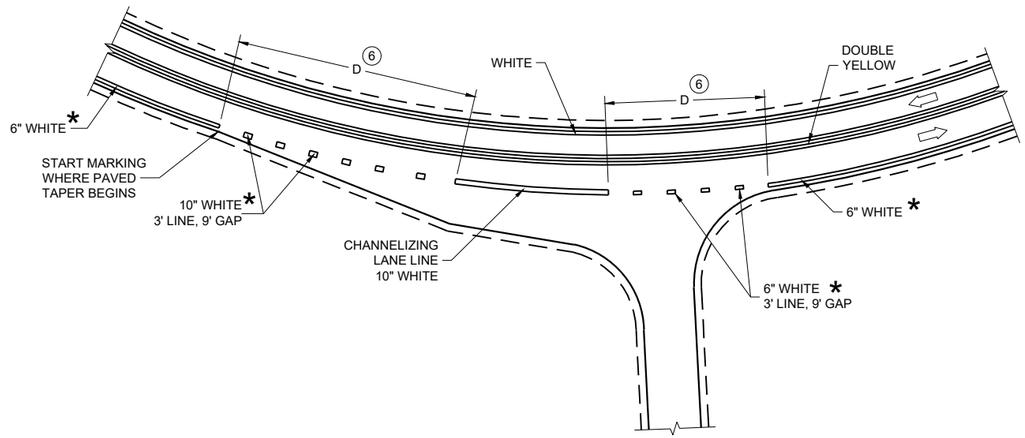
GENERAL NOTES

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

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.

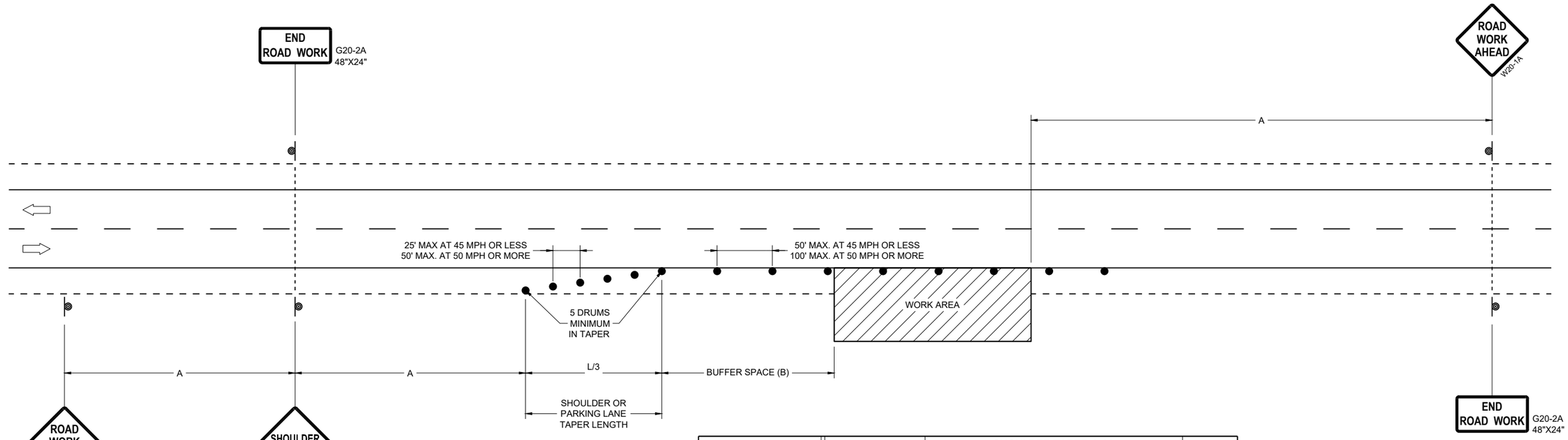
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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.



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	155
30	200'	15	20	25	30	35	40	200
35	350'	20	27	34	40	47	54	250
40	350'	26	35	44	53	62	70	305
45	500'	45	59	74	89	104	119	360
50	500'	50	66	83	99	116	132	425
55	500'	54	73	91	109	127	145	495

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2026
DATE

/S/ ANDREW HEIDTKE
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

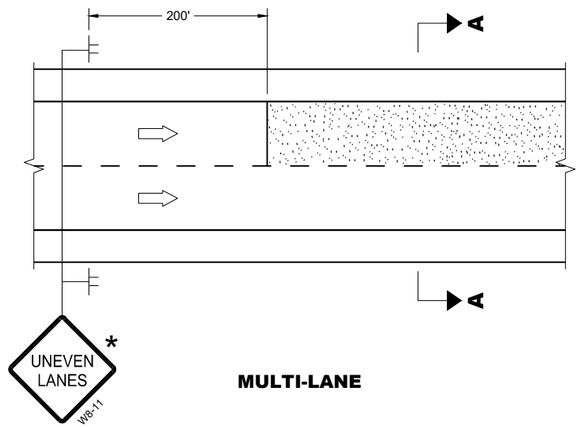
FHWA

6

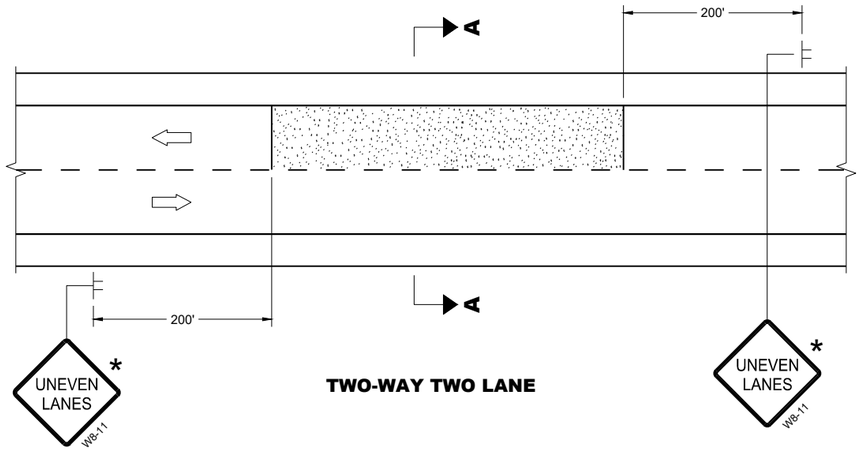
SDD 15D28-06

6

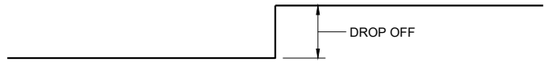
SDD 15D28-06



MULTI-LANE

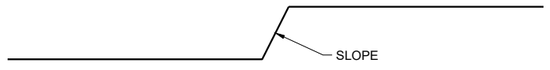


TWO-WAY TWO LANE

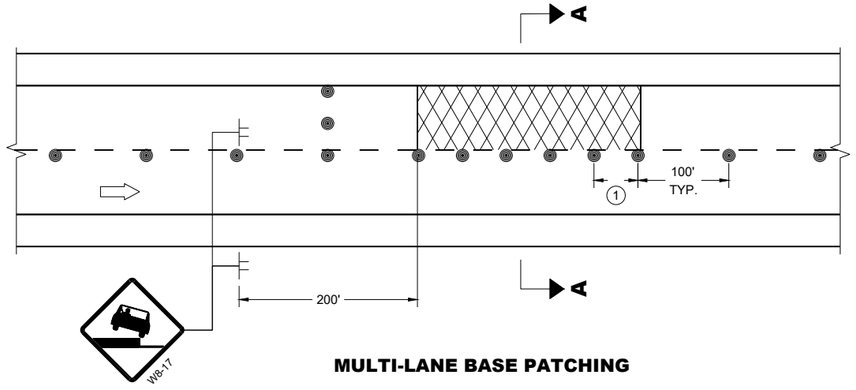


SECTION A - A

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.

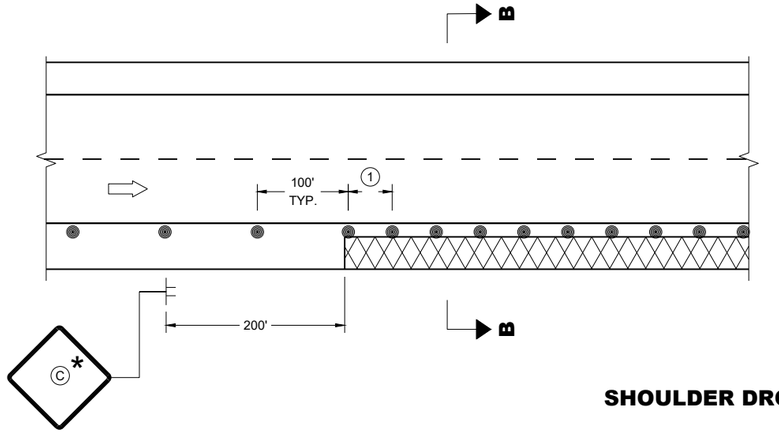
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

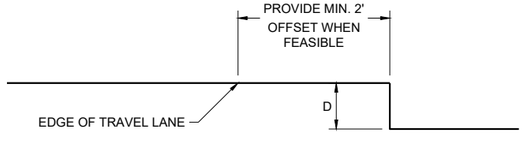
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

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.

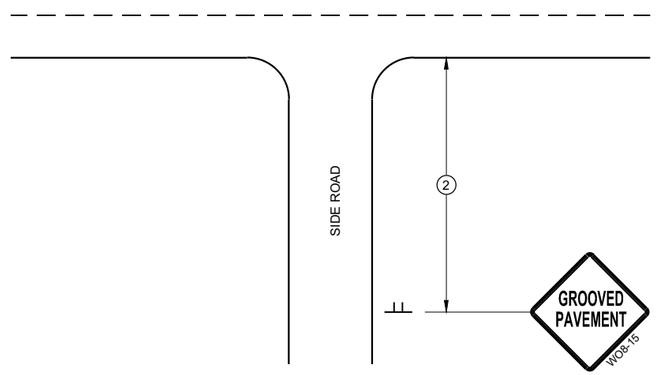
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

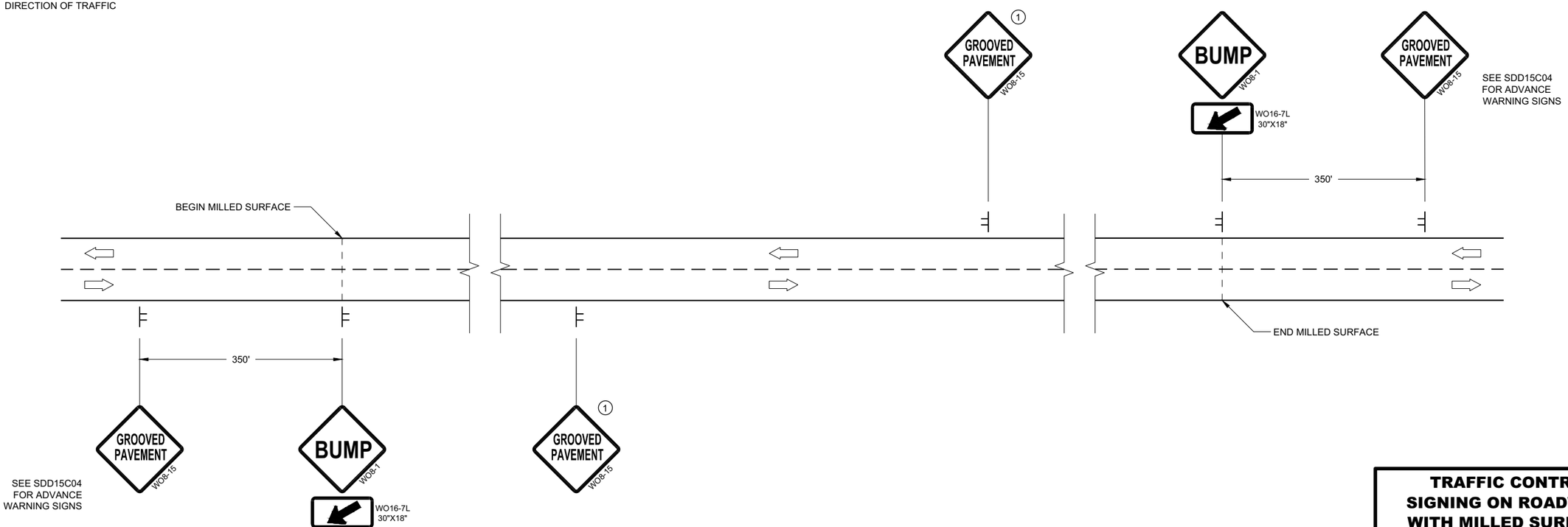
LEGEND

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.

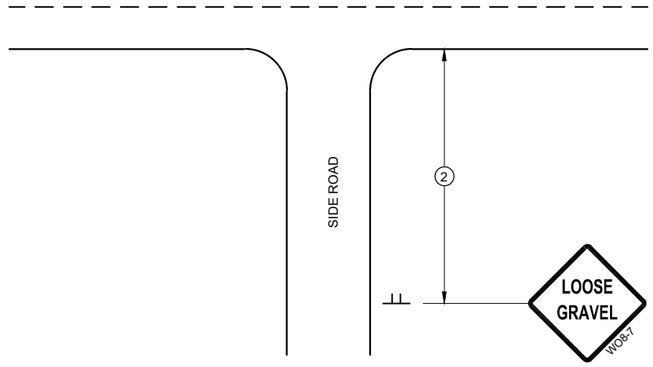
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

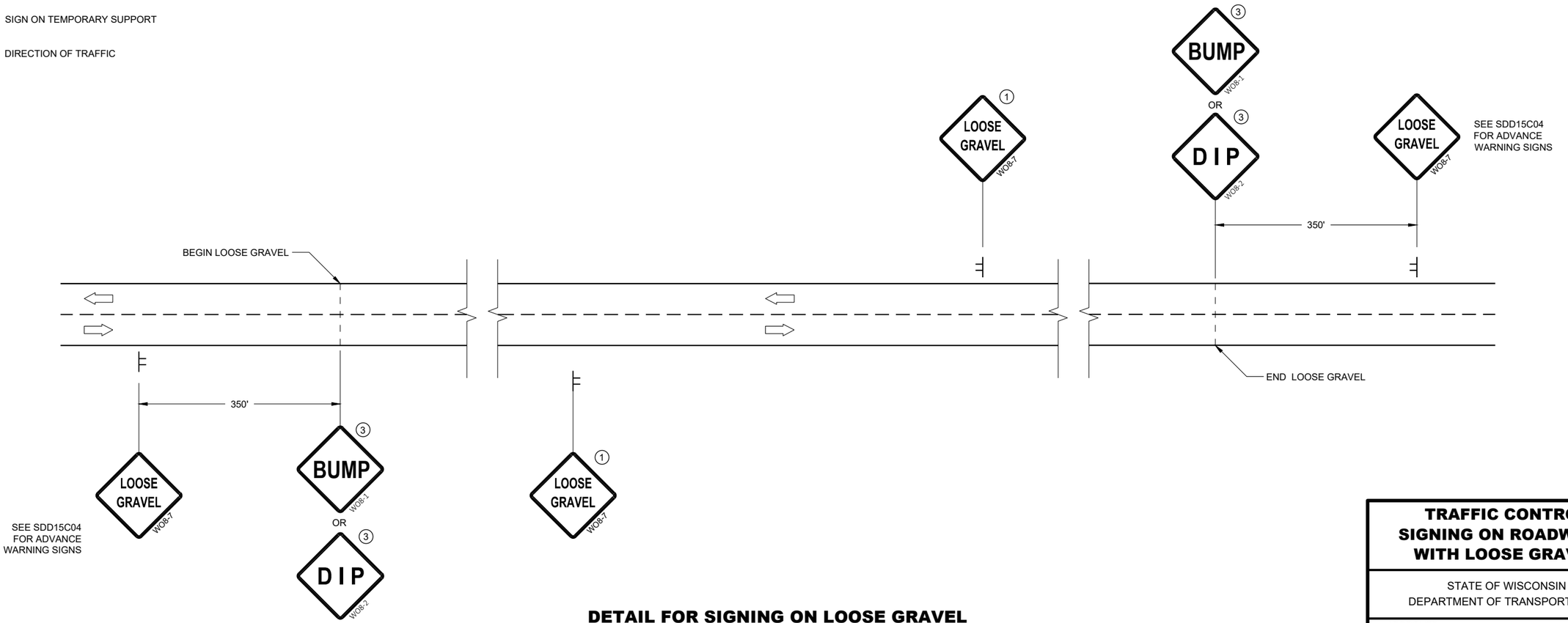
LEGEND

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

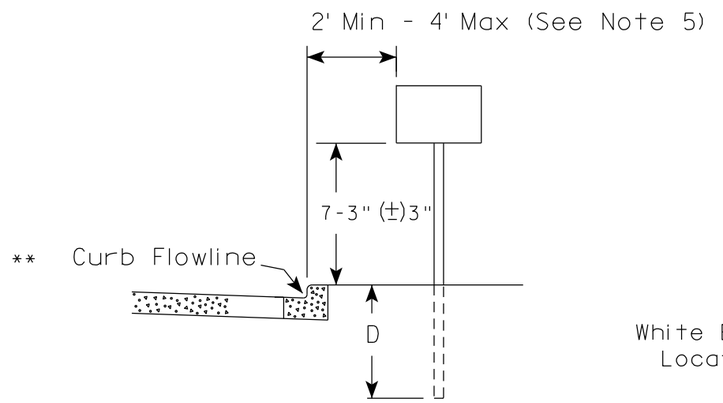
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

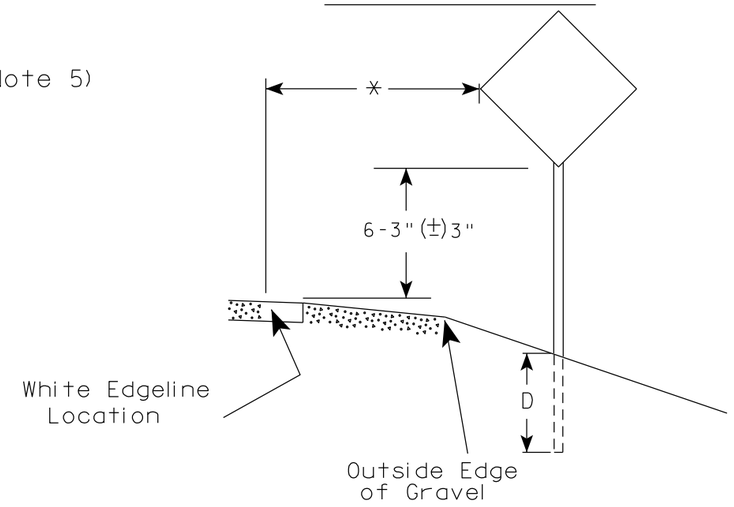
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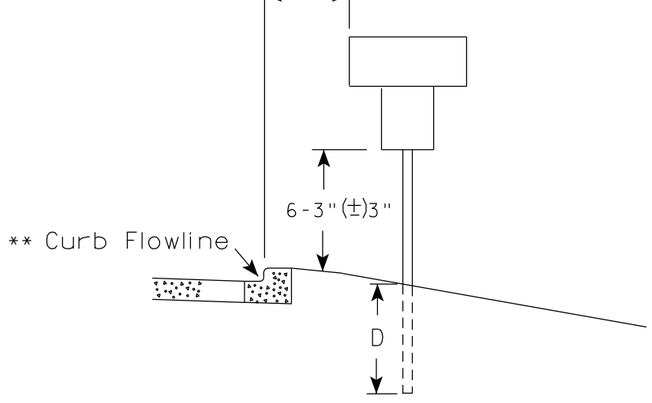
SDD 15D45 - 03

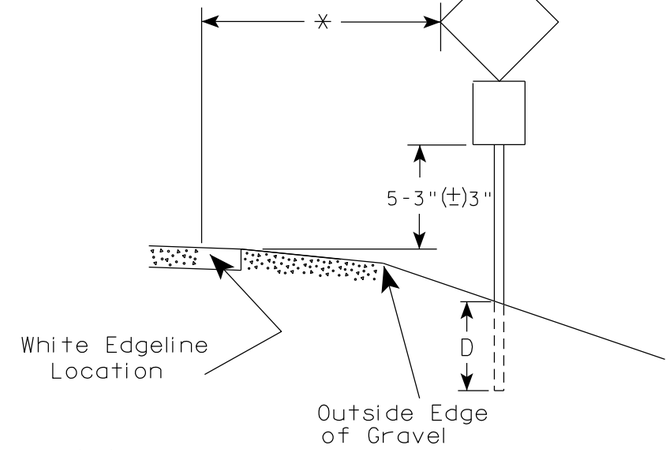
URBAN AREA



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.

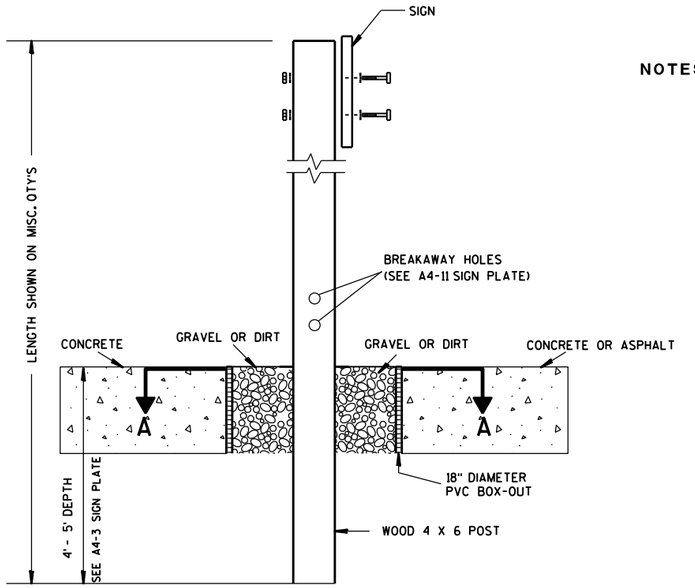
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

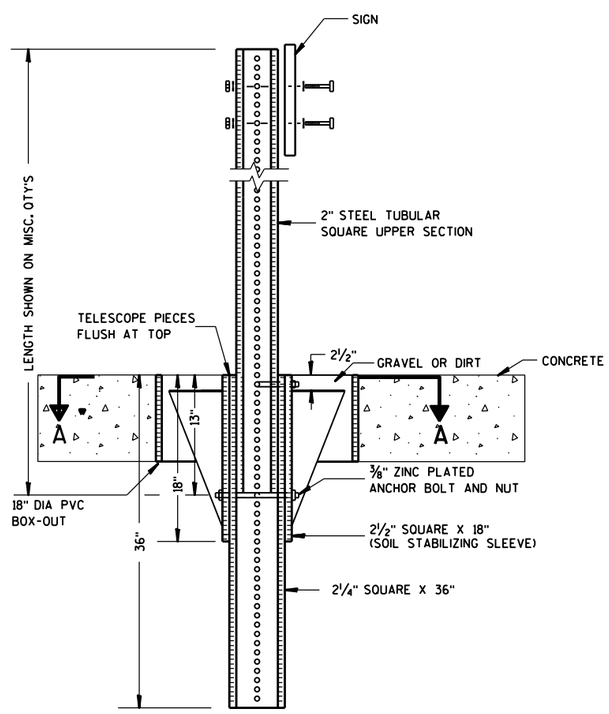
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 115	E



ELEVATION VIEW

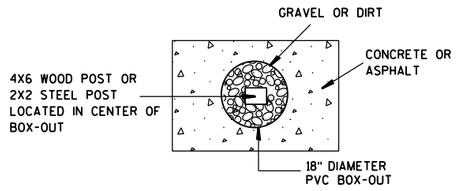
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

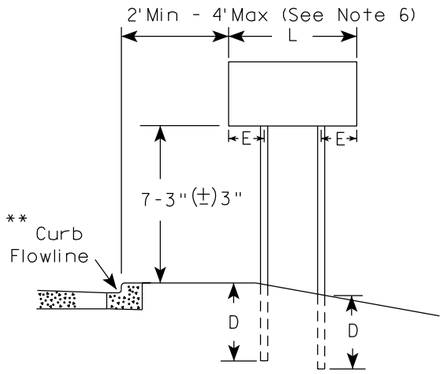
APPROVED Matthew R Rauch
for State Traffic Engineer

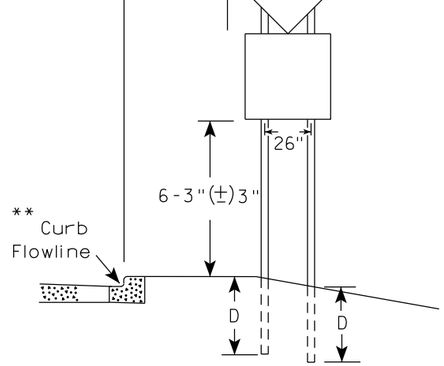
DATE 1/27/14 PLATE NO. A4-3B.1

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

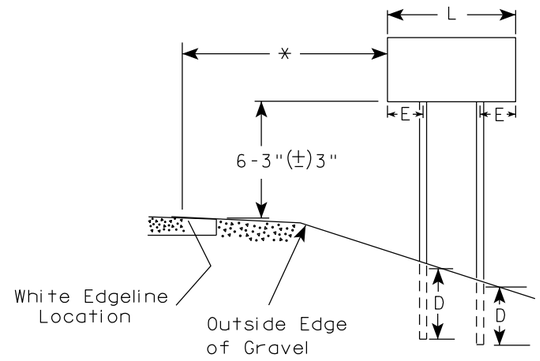
URBAN AREA

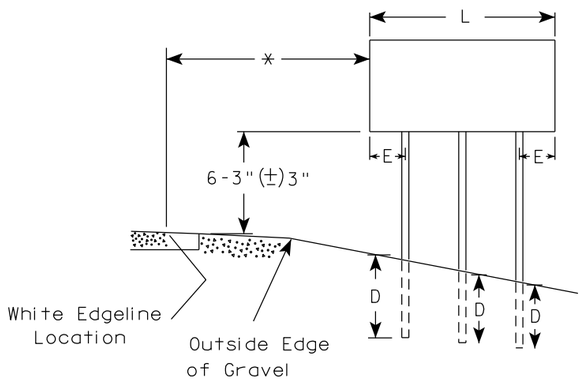


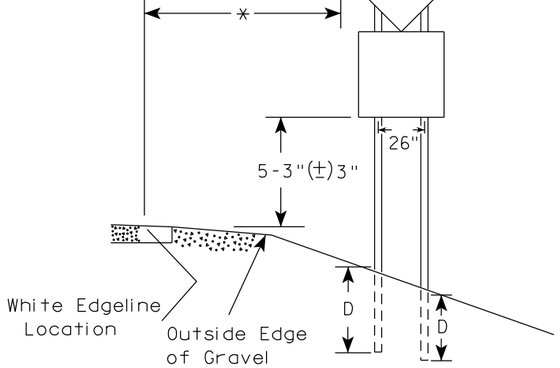


48" DIAMOND WARNING SIGN

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'

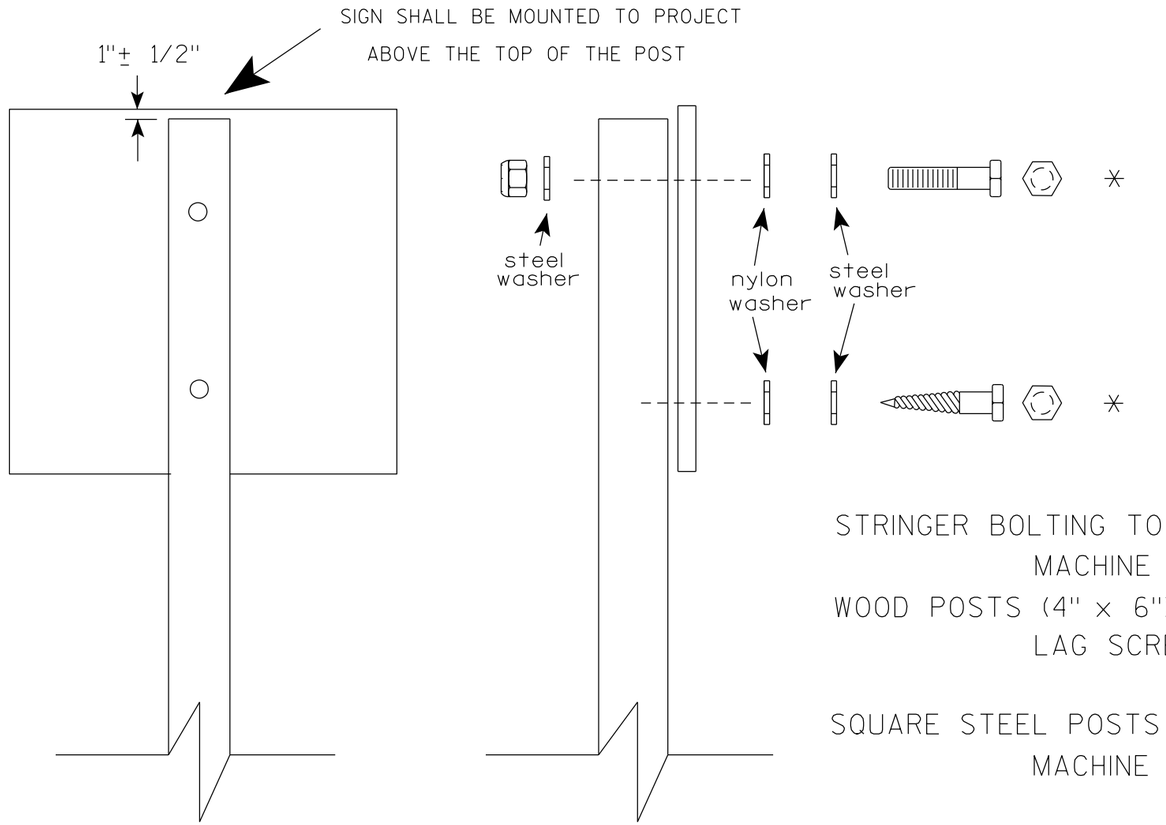
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 117	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

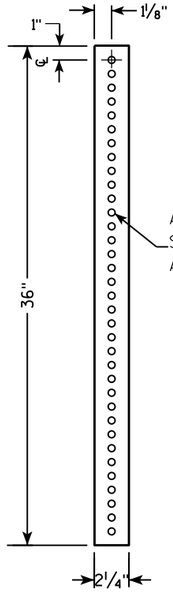
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

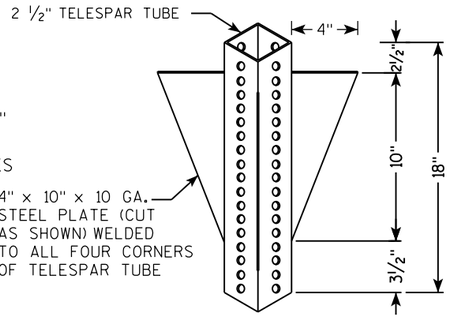
SHEET NO: 118 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

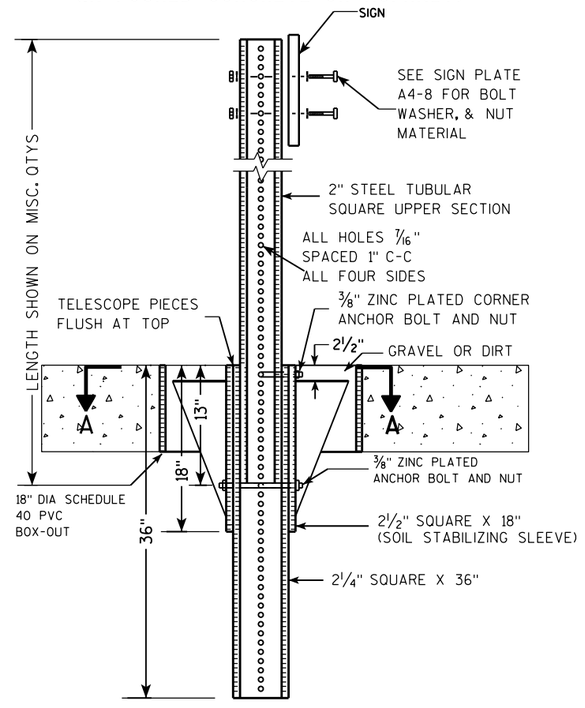
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



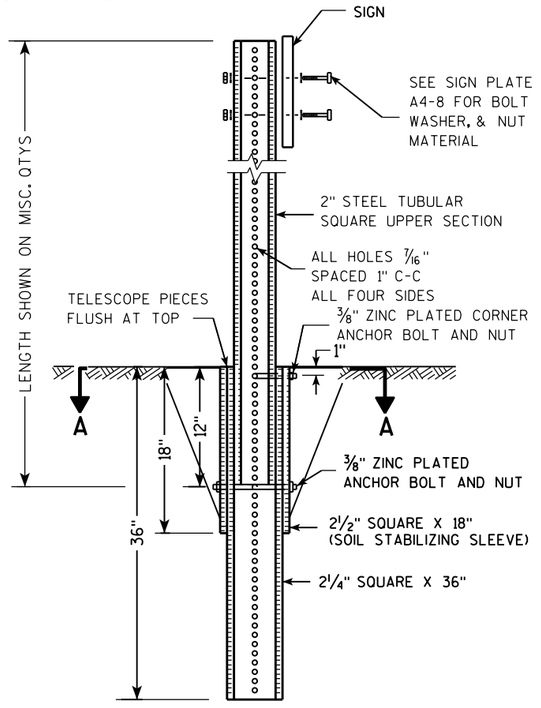
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

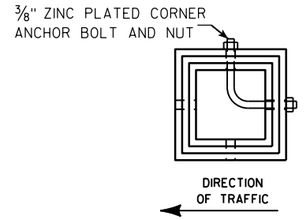


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

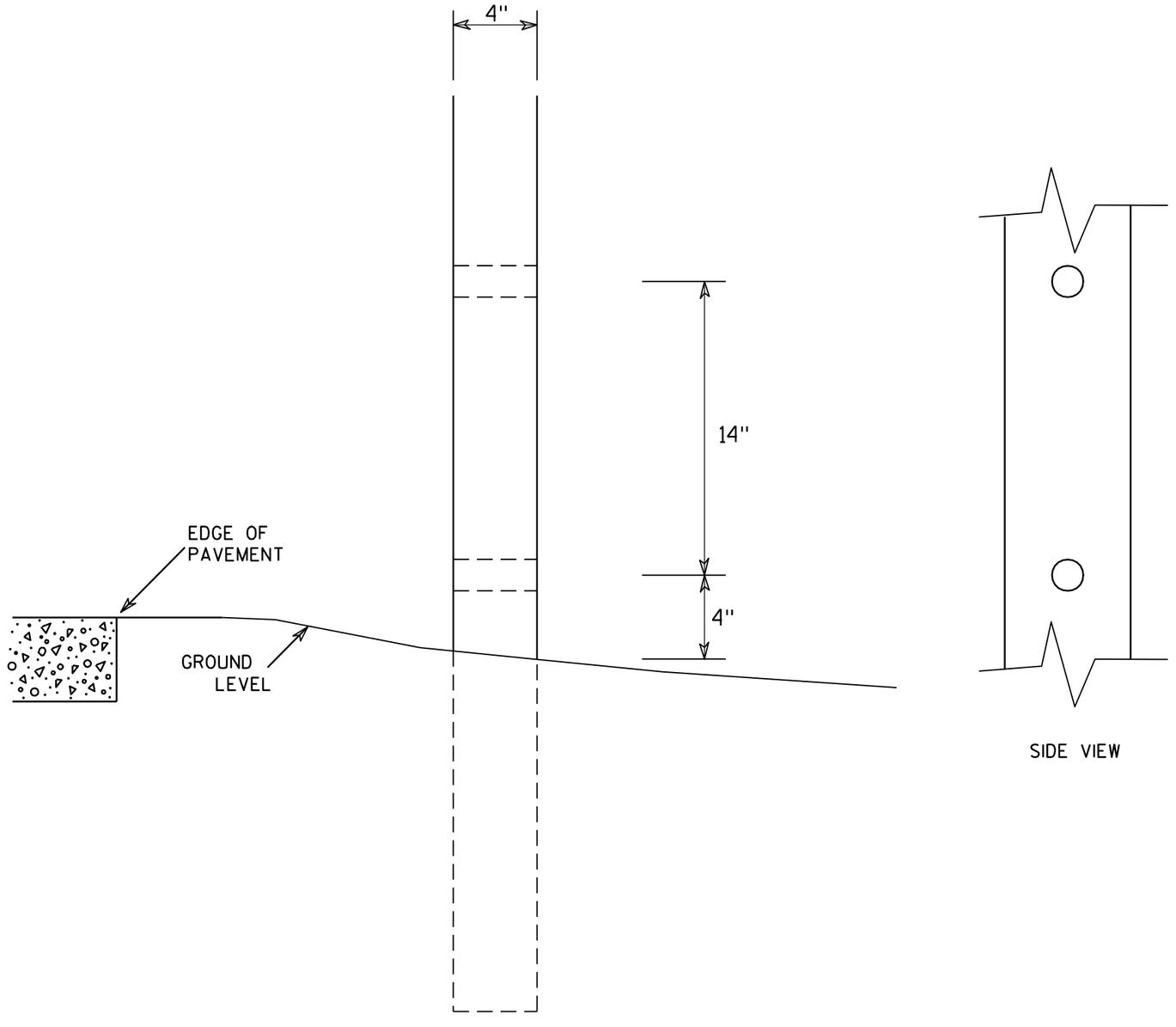
WISCONSIN DEPT OF TRANSPORTATION

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

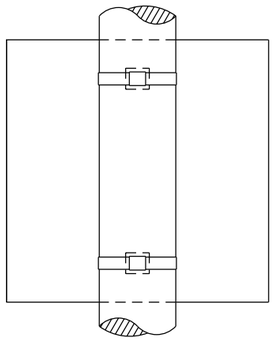
APPROVED Chester J Spang for State Traffic Engineer

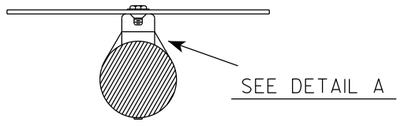
DATE 3/27/97 PLATE NO. A4-11.2

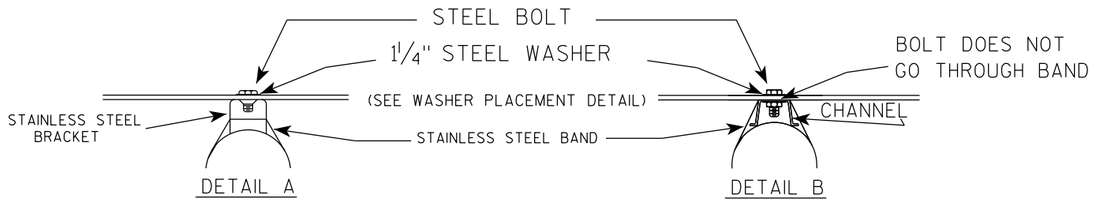
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 120	E

BANDING

SINGLE SIGN



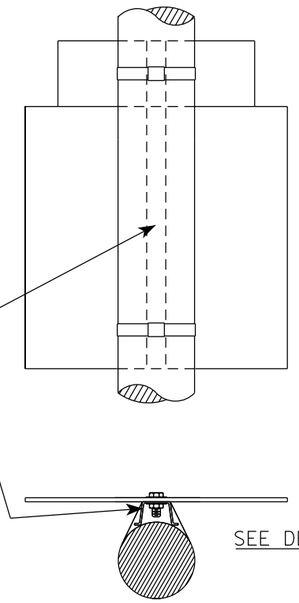




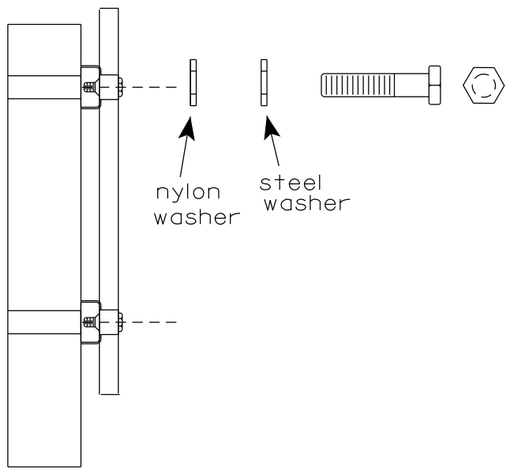
GENERAL NOTES

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

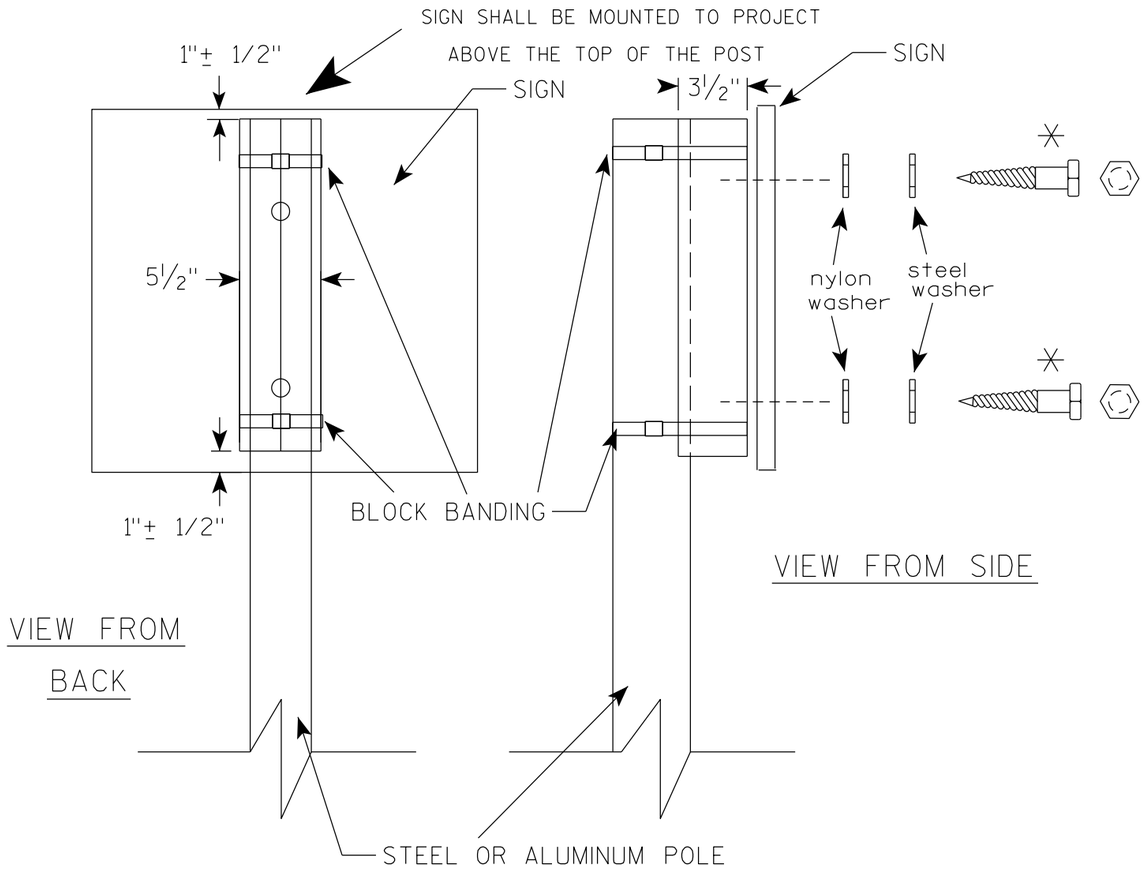
DATE 6/10/19 PLATE NO. A5-9.4

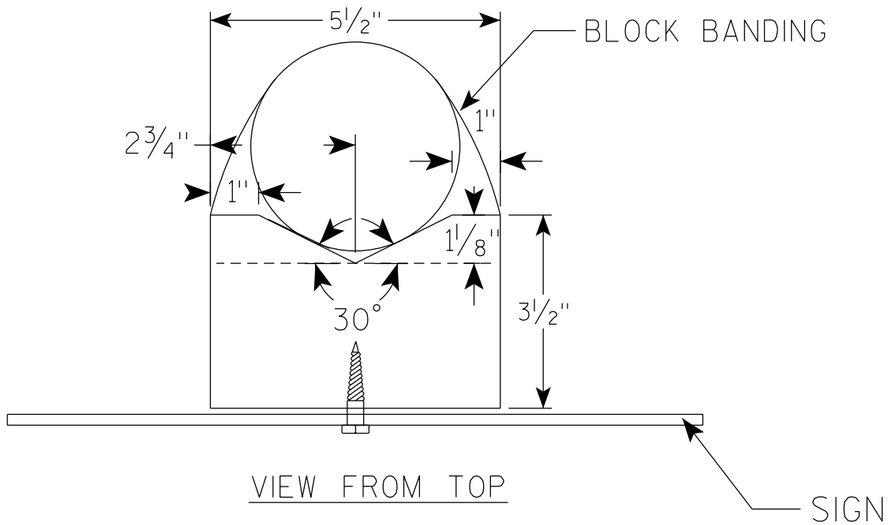
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 121	E

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)

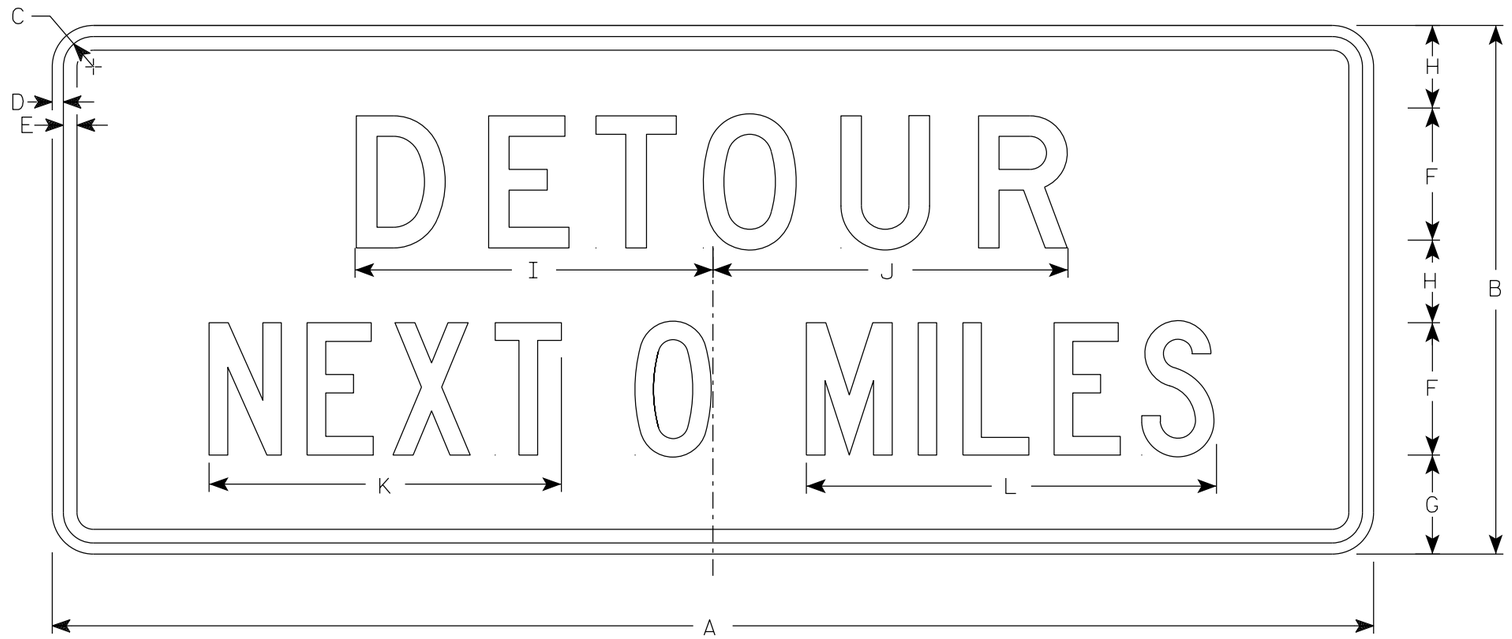
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 122 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

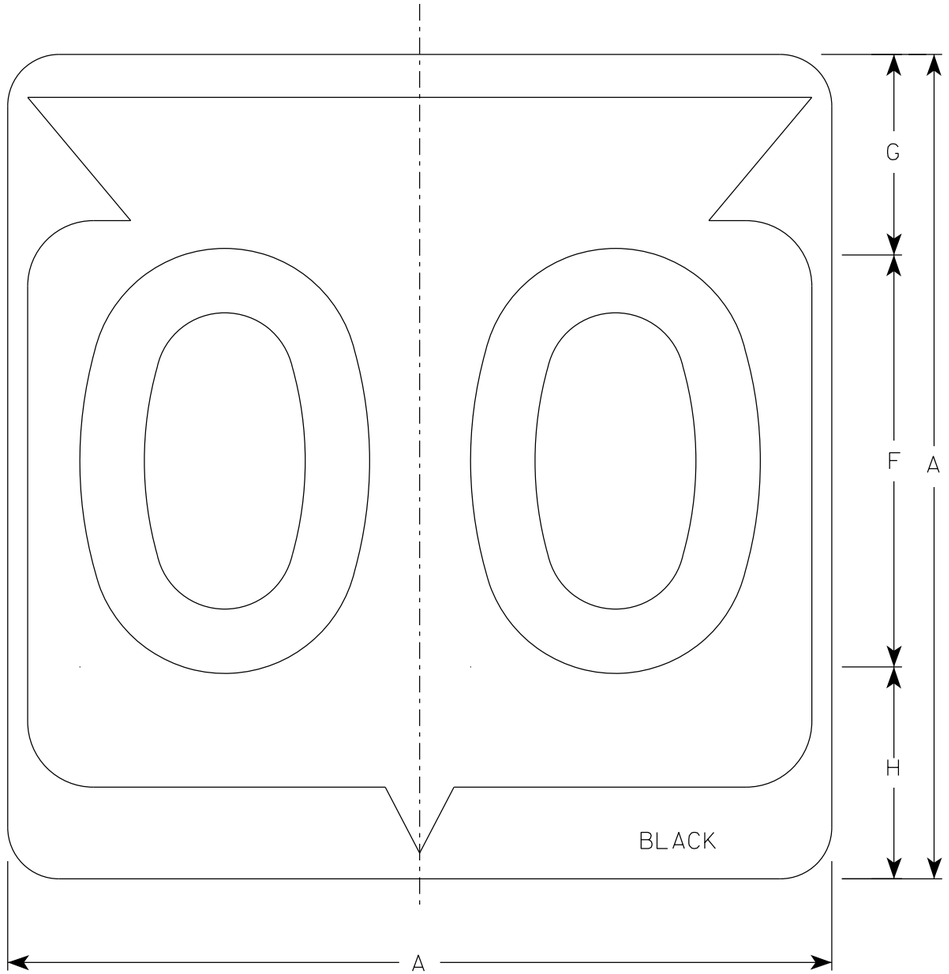
STANDARD SIGN
G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-51.3

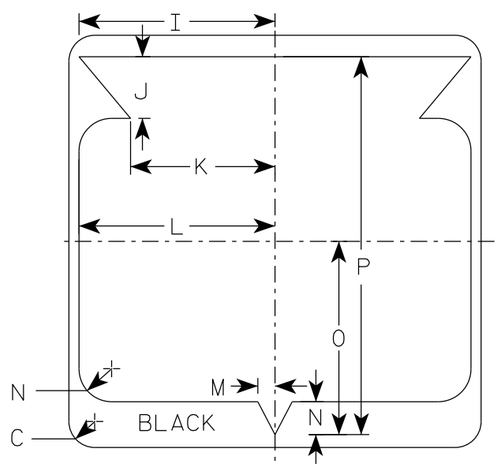
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 123	E



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

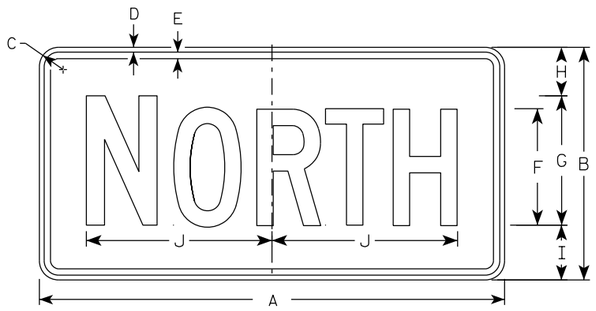
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

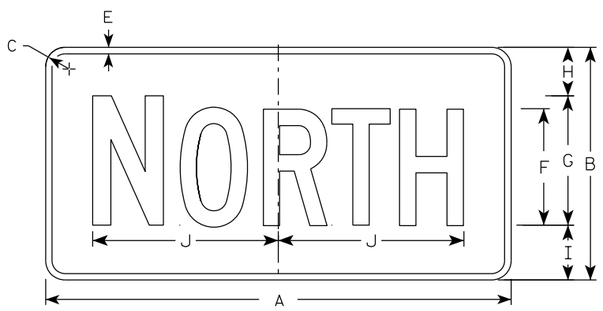
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

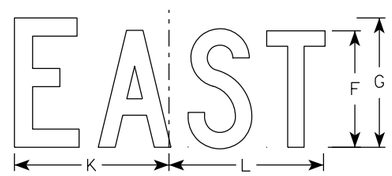
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 124	E



M3-1
MM3-1
MP3-1



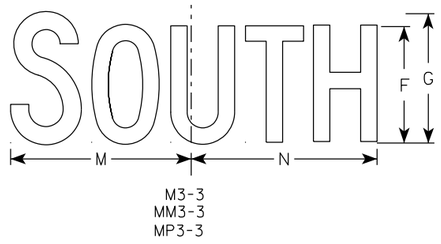
MB3-1
MK3-1
MN3-1



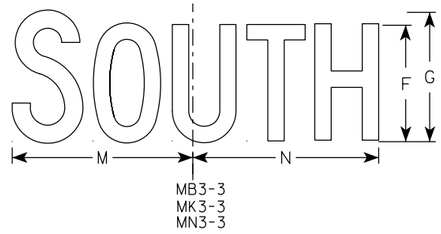
M3-2
MM3-2
MP3-2



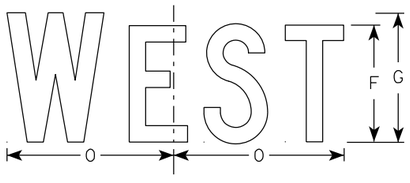
MB3-2
MK3-2
MN3-2



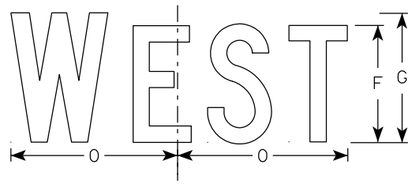
M3-3
MM3-3
MP3-3



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

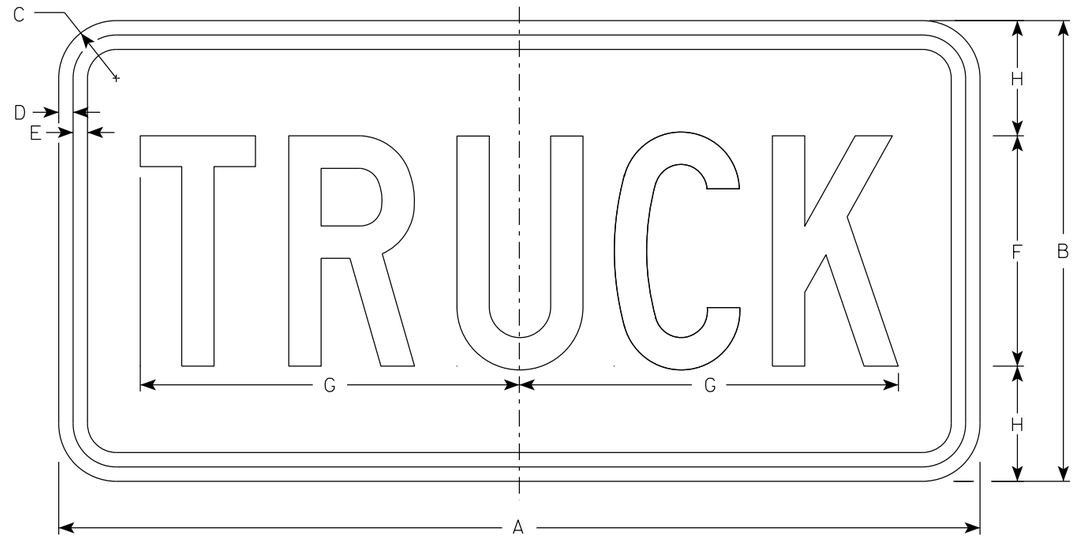
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 125 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C



M4-4

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	9 7/8	3																			2.0
2M	24	12	1 1/2	3/8	3/8	6	9 7/8	3																			2.0
3	36	18	1 1/2	3/8	1/2	9	15 5/8	4 1/2																			4.5
4	36	18	1 1/2	3/8	1/2	9	15 5/8	4 1/2																			4.5
5	36	18	1 1/2	3/8	1/2	9	15 5/8	4 1/2																			4.5

STANDARD SIGN

M4-4

WISCONSIN DEPT OF TRANSPORTATION

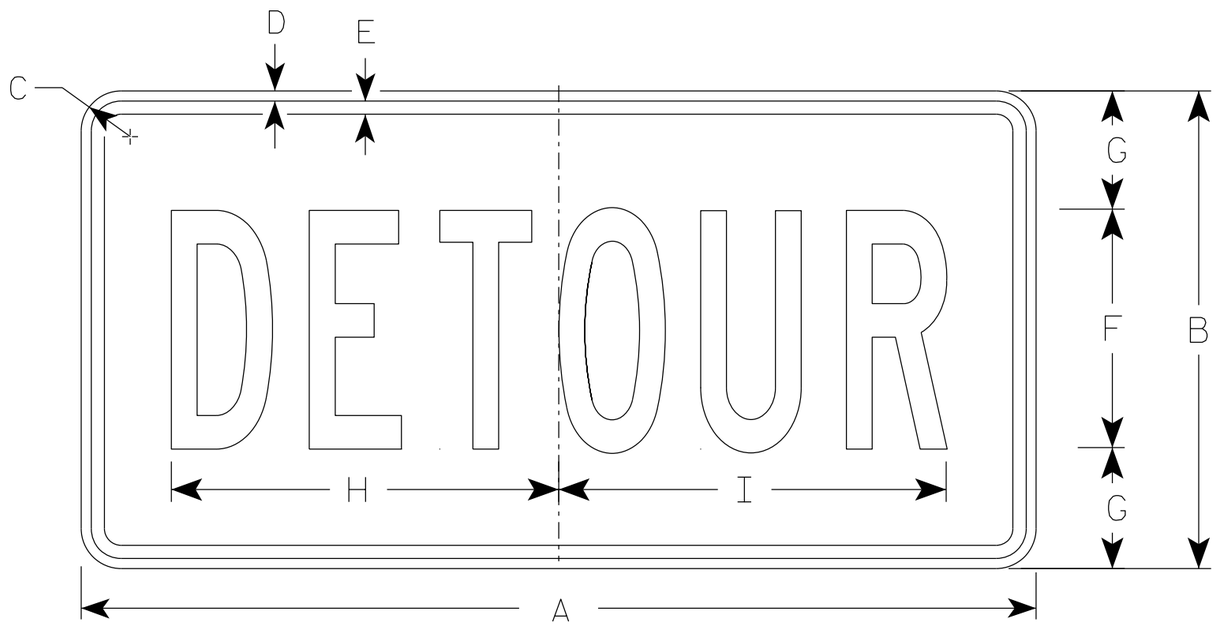
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 11/21/2022 PLATE NO. M4-4.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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.



M4-8

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

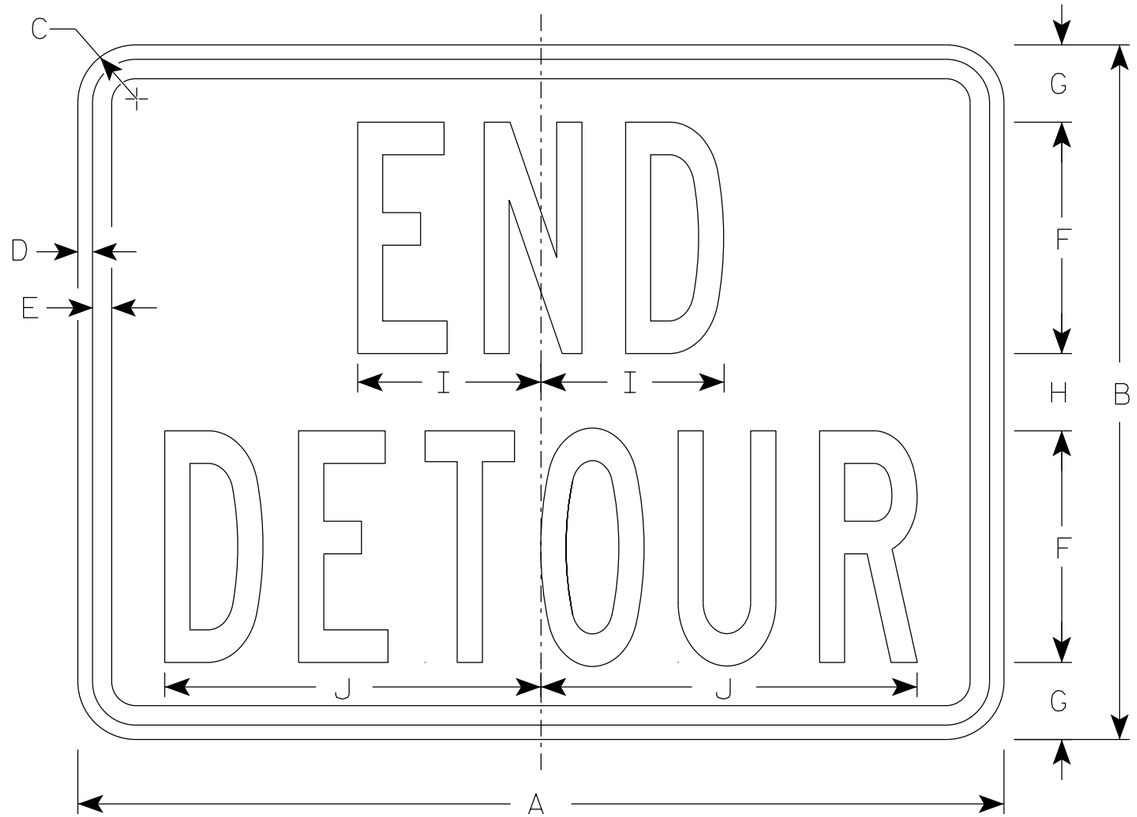
STANDARD SIGN
M4-8

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



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

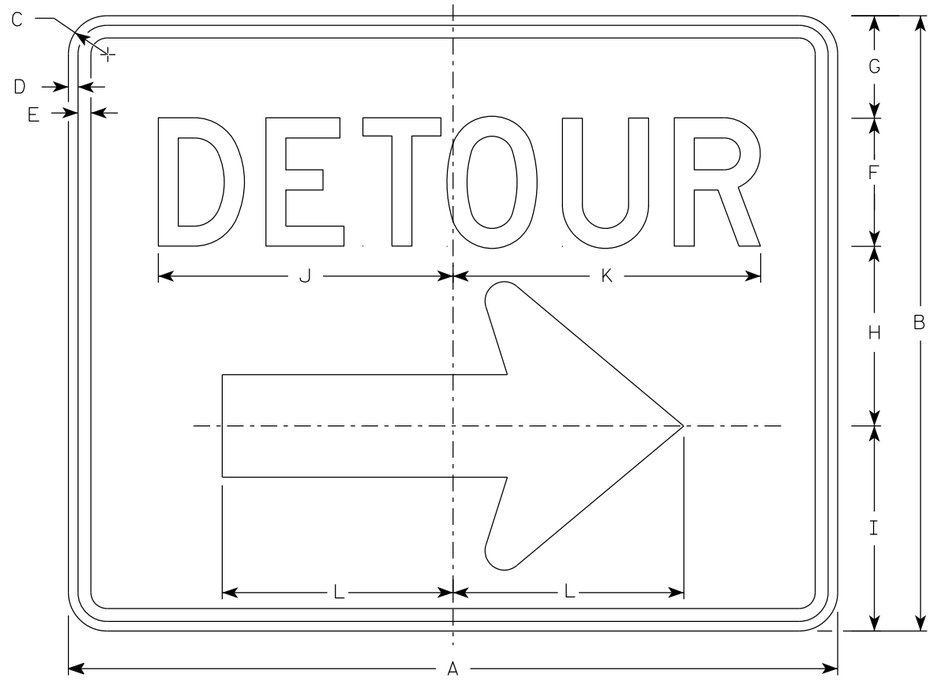
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

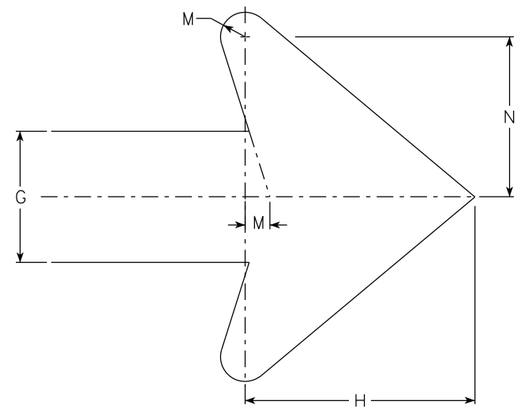
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 128 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   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.
4. M4-9L is the same as M4-9R 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																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

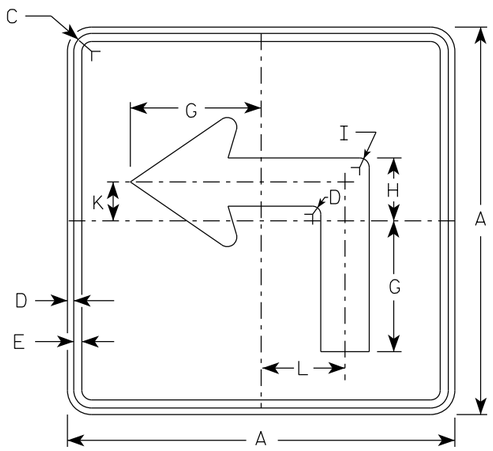
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

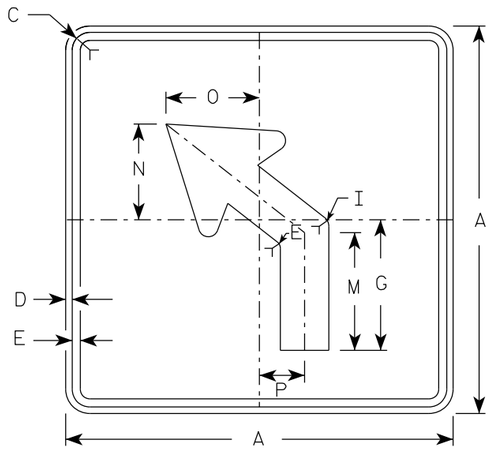
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

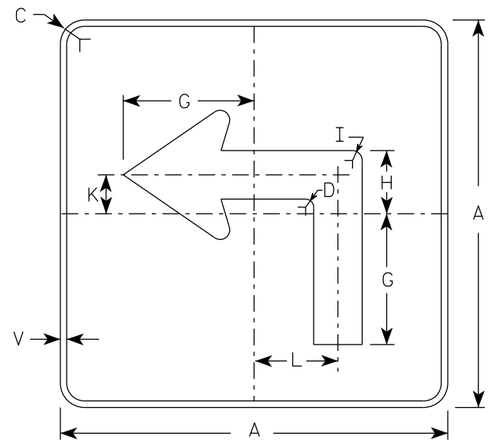
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



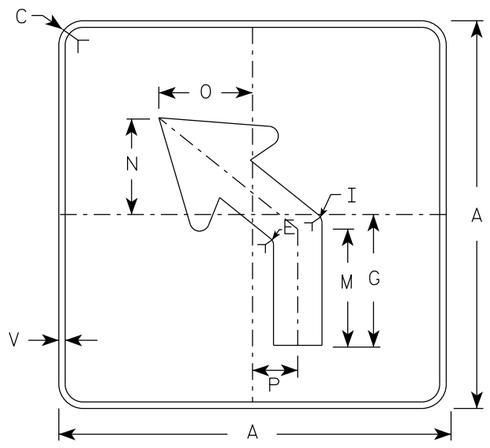
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

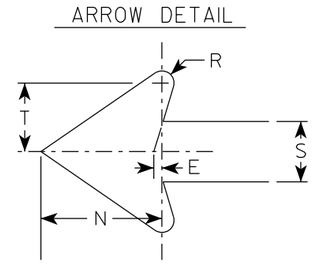


MB5-2L
MK5-2L
MN5-2L
MR5-2L

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

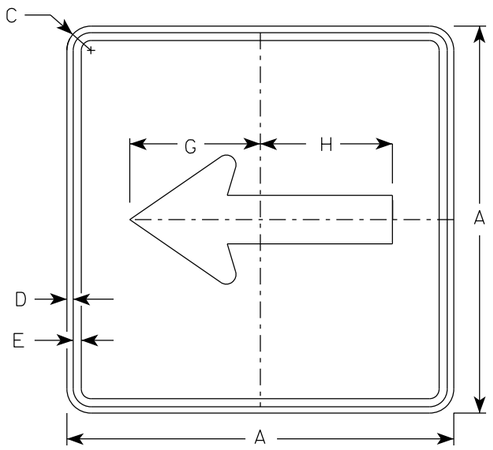
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

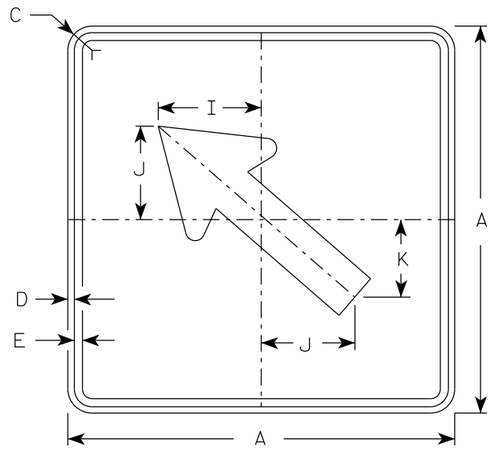
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

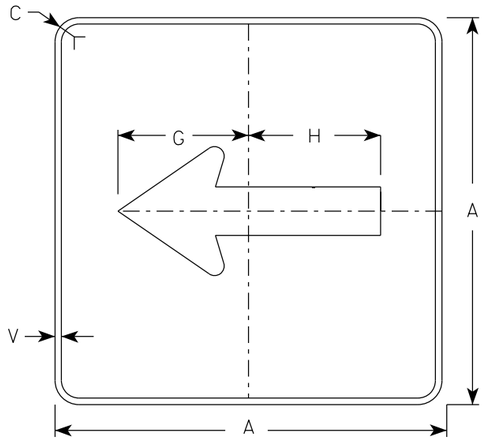
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 130 | E



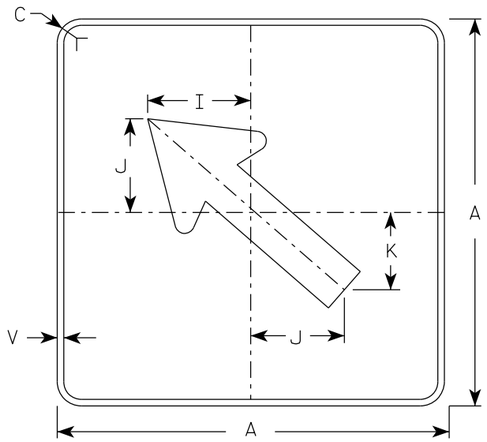
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

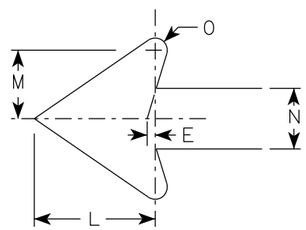


MB6-2
MK6-2
MN6-2
MR6-2

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

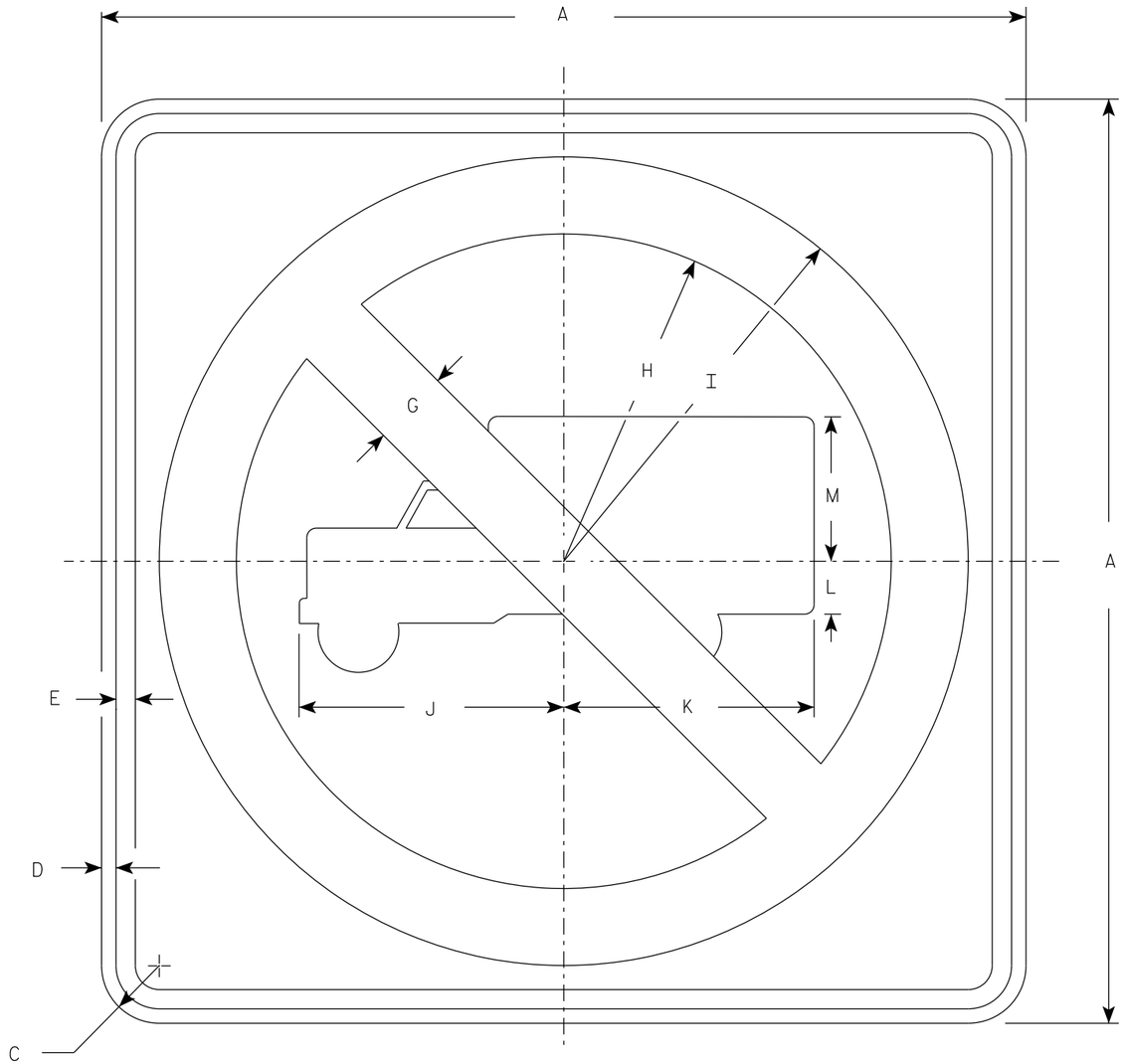
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 131 | E

7

7



R5-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See Note 3
3. Circle & Diagonal - Red
   Truck Symbol & Border - Black

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		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/2	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 7/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		2 1/4	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

STANDARD SIGN
R5-2

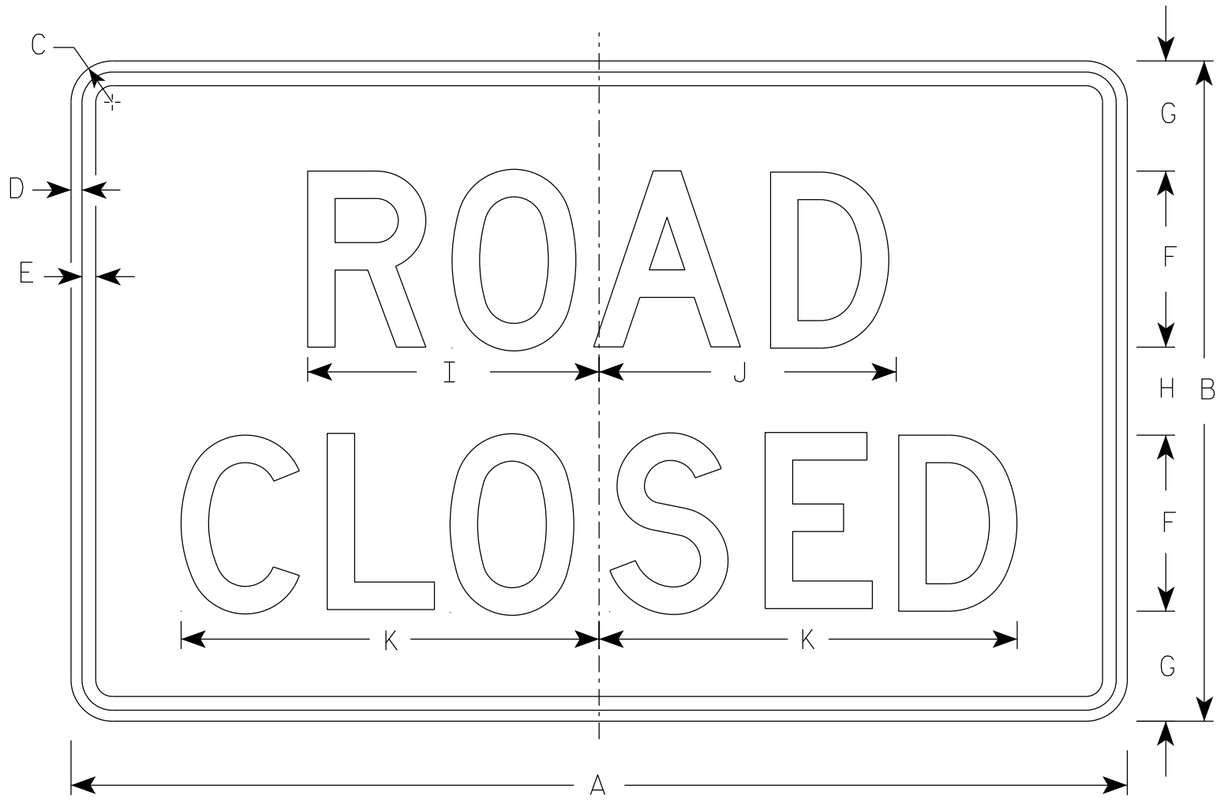
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/23 PLATE NO. R5-2.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 132 | E

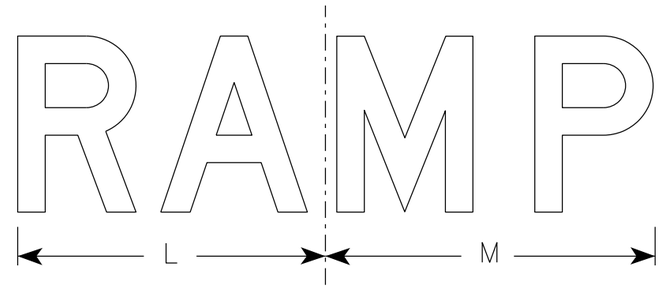
7



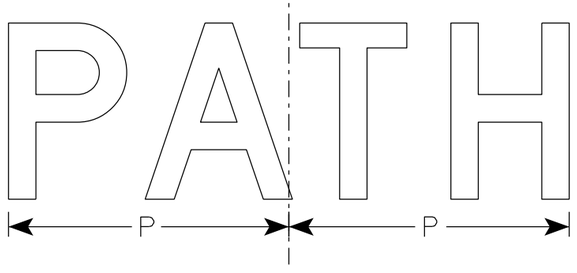
R11-2

NOTES

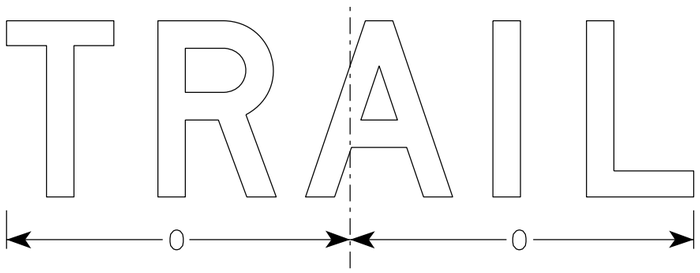
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



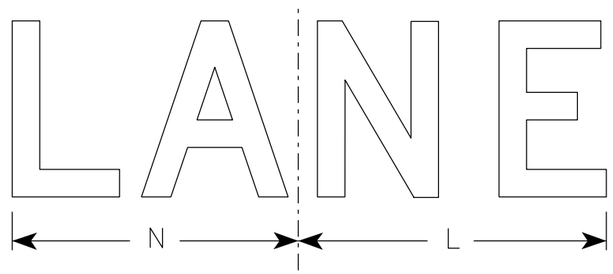
R11-2R



R11-2C



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	12 3/4											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	12 3/4											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	12 3/4											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	12 3/4											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	12 3/4											10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

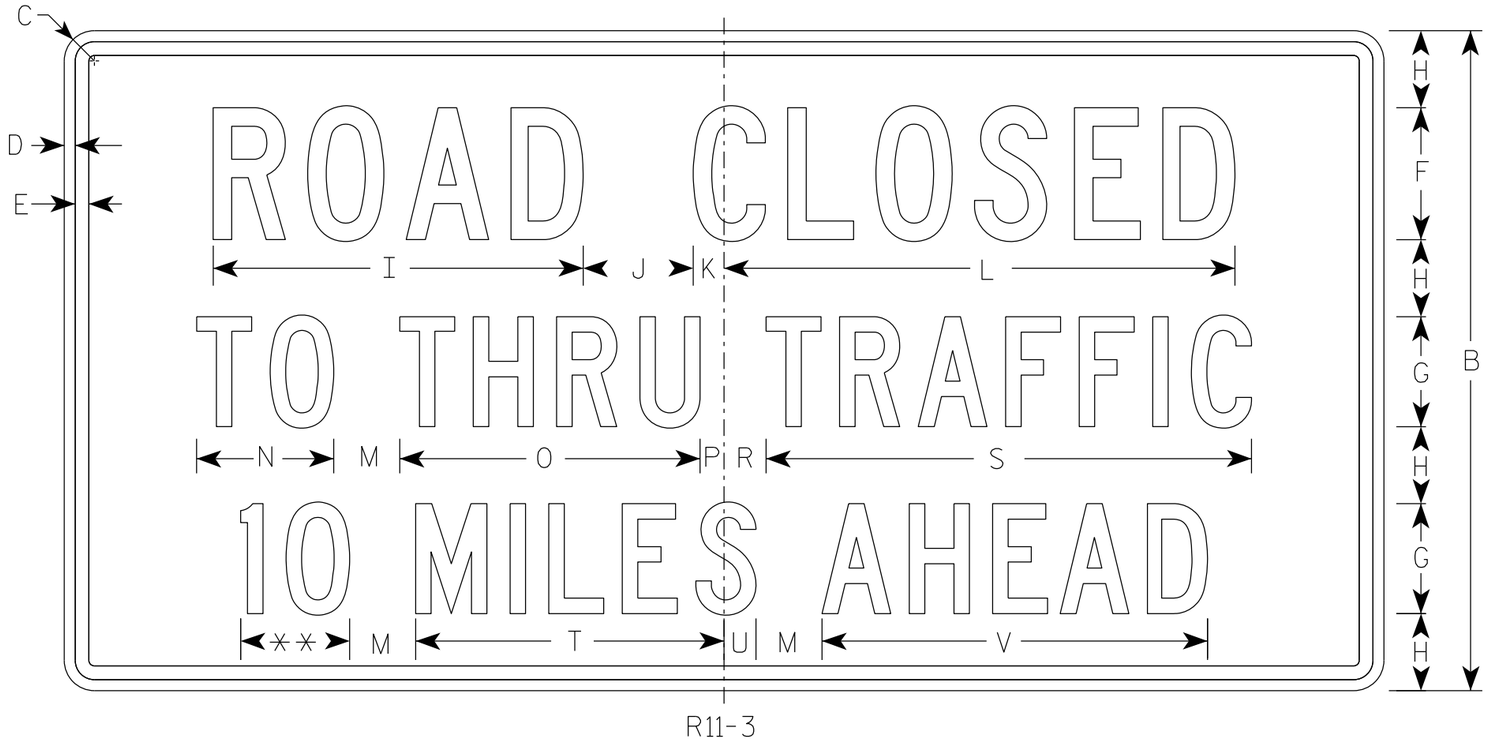
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/3/26 PLATE NO. R11-2.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

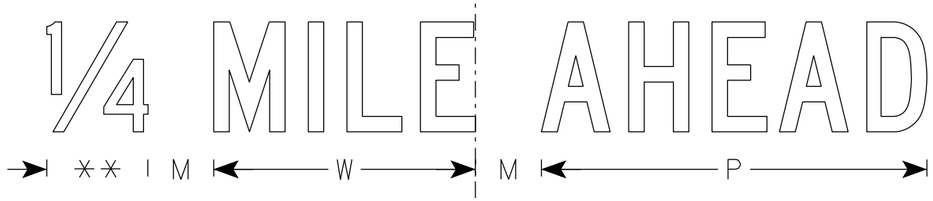
NOTES

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																											

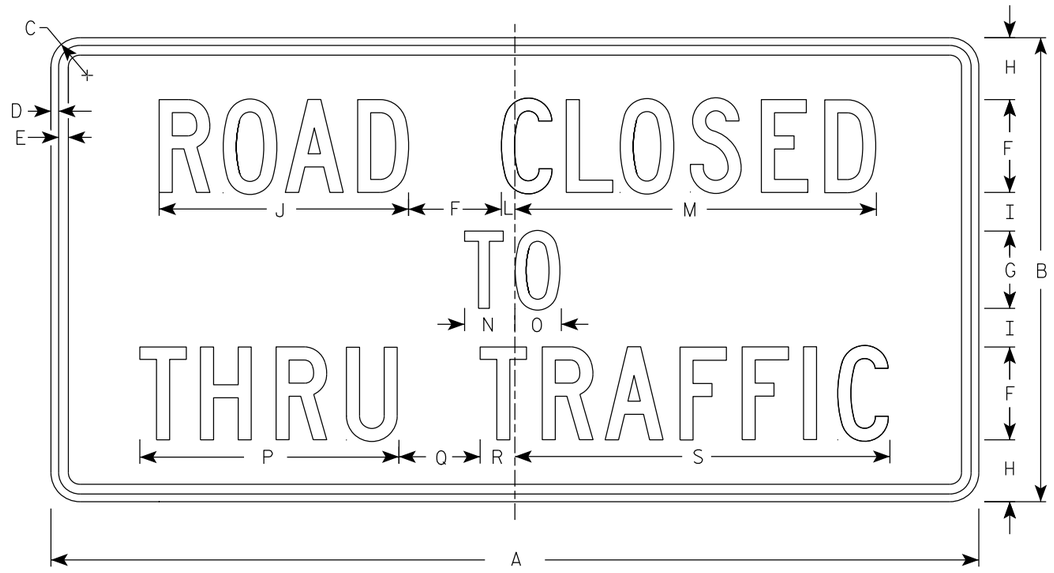
STANDARD SIGN
R11-3

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: 134 E



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																											

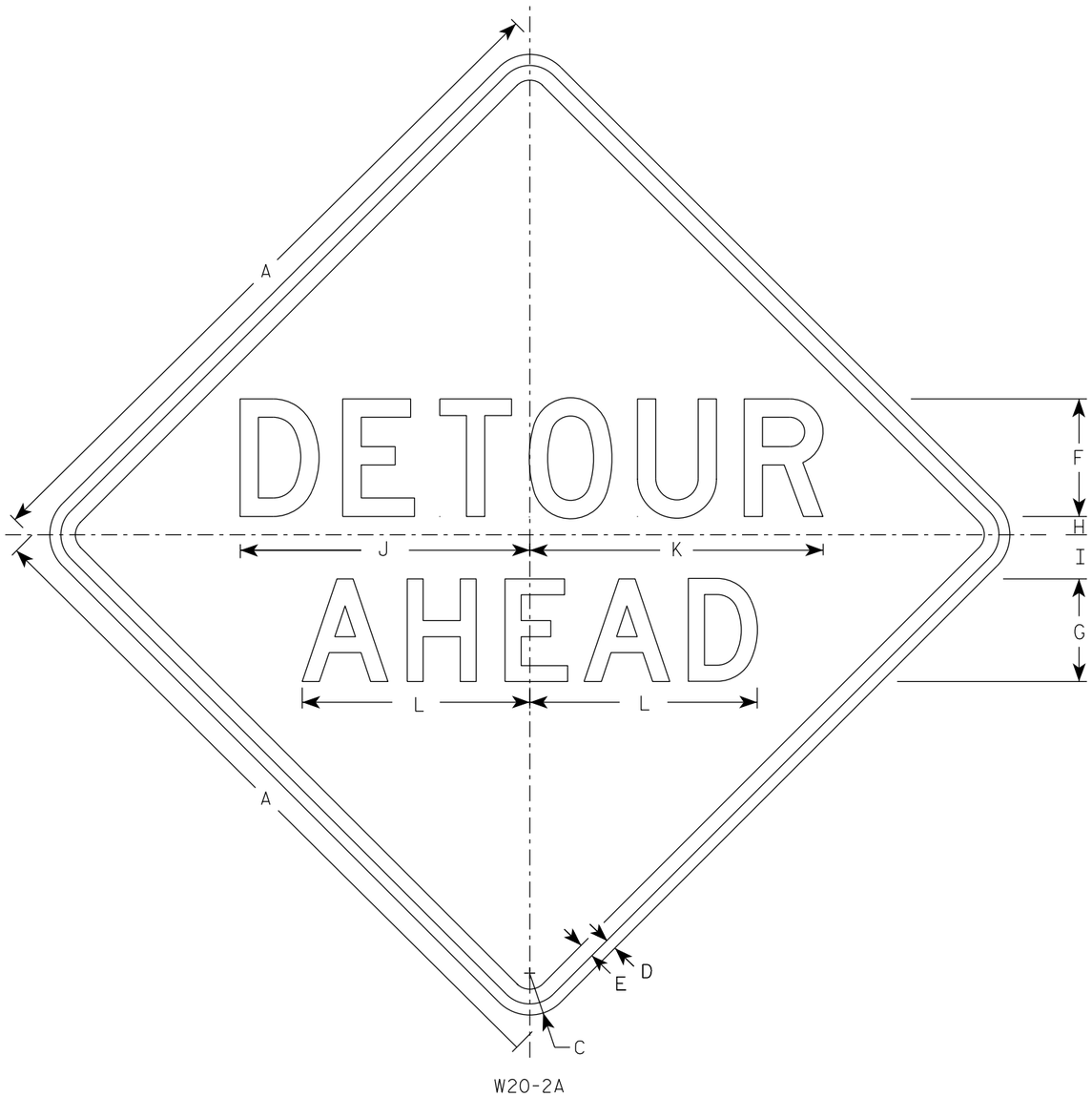
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

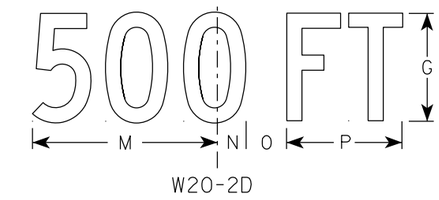
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

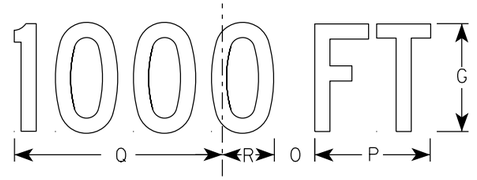
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 135 | E



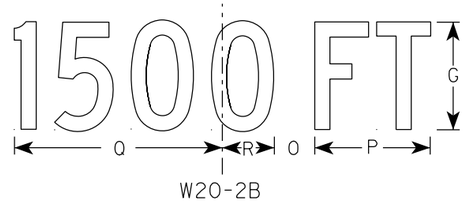
W20-2A



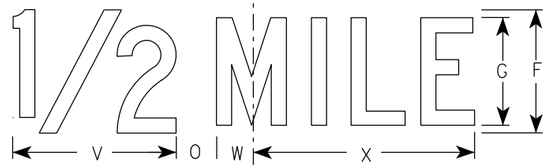
W20-2D



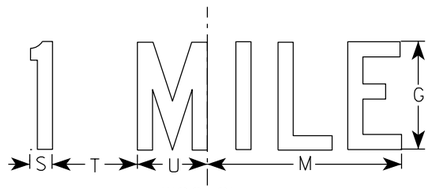
W20-2C



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

WHISKEY CREEK

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.15	
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
214+50.46	21396.38	0.00	9.32	37.33	0	0	0	0	0
214+98.10	21444.02	47.640000	9.57	58.74	17	85	17	98	-81
215+00.00	21445.92	1.900000	9.45	62.43	1	4	18	102	-84
215+26.73	21472.65	26.730000	9.11	71.60	9	66	27	178	-151
215+50.00	21495.92	23.270000	9.46	77.60	8	64	35	252	-217
215+74.97	21520.89	24.970000	9.89	89.47	9	77	44	340	-296

227+95 CULVERT PIPE

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.15	
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
227+42.00	22687.92	0.00	11.48	6.01	0	0	0	0	0
227+95.84	22741.76	53.840000	11.36	5.35	23	11	23	13	10
228+00.00	22745.92	4.160000	11.52	5.03	2	1	25	14	11
228+49.00	22794.92	49.000000	12.74	2.83	22	7	47	22	25

DAGO CREEK

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.15	
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
260+57.36	25926.58	0.00	5.22	6.48	0	0	0	0	0
261+00.00	25969.22	42.640000	4.88	6.03	8	10	8	12	-4
261+76.32	26045.54	76.320000	4.44	20.92	13	38	21	55	-34
262+00.00	26069.22	23.680000	13.78	18.27	8	17	29	75	-46
262+01.34	26070.56	1.340000	13.75	18.04	1	1	30	76	-46
262+26.33	26095.54	24.980000	10.28	20.01	11	18	41	97	-56
262+65.19	26134.41	38.870000	10.34	42.37	15	45	56	148	-92
263+00.00	26169.22	34.810000	11.47	79.28	14	78	70	238	-168
263+04.05	26173.27	4.050000	11.65	89.77	2	13	72	253	-181
263+45.82	26215.04	41.770000	12.59	89.67	19	139	91	413	-322
263+91.00	26260.22	45.180000	9.97	10.52	19	84	110	509	-399
264+00.00	26269.22	9.000000	3.06	9.81	2	3	112	513	-401
264+19.91	26289.13	19.910000	3.09	14.37	2	9	114	523	-409
264+44.89	26314.11	24.980000	3.71	35.83	3	23	117	550	-433
264+69.91	26339.13	25.020000	3.38	41.49	3	36	120	591	-471
265+00.00	26369.22	30.090000	3.25	20.89	4	35	124	631	-507
266+00.00	26469.22	100.000000	4.12	2.02	14	42	138	680	-542
266+05.04	26474.25	5.030000	4.19	1.93	1	0	139	680	-541

281+55 CULVERT PIPE

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.15	
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
281+01.00	27970.22	0.00	14.80	0.01	0	0	0	0	0
281+25.00	27994.22	24.000000	12.76	0.04	12	0	12	0	12
281+33.70	28002.91	8.690000	12.09	0.10	4	0	16	0	16
281+75.00	28044.22	41.310000	12.76	0.15	19	0	35	0	35
282+00.00	28069.22	25.000000	12.99	0.22	12	0	47	0	47
282+07.00	28076.22	7.000000	13.02	0.24	3	0	50	0	50

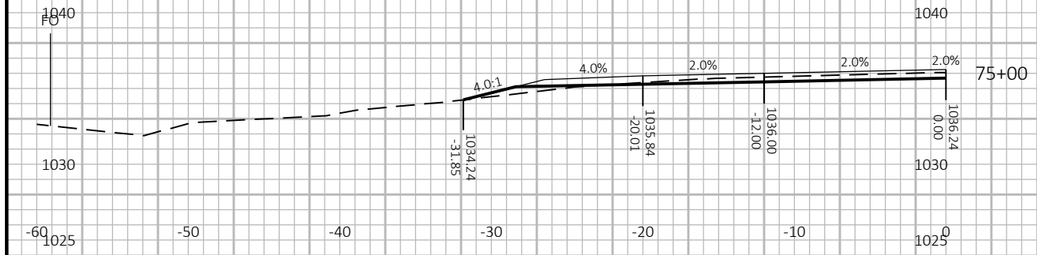
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]

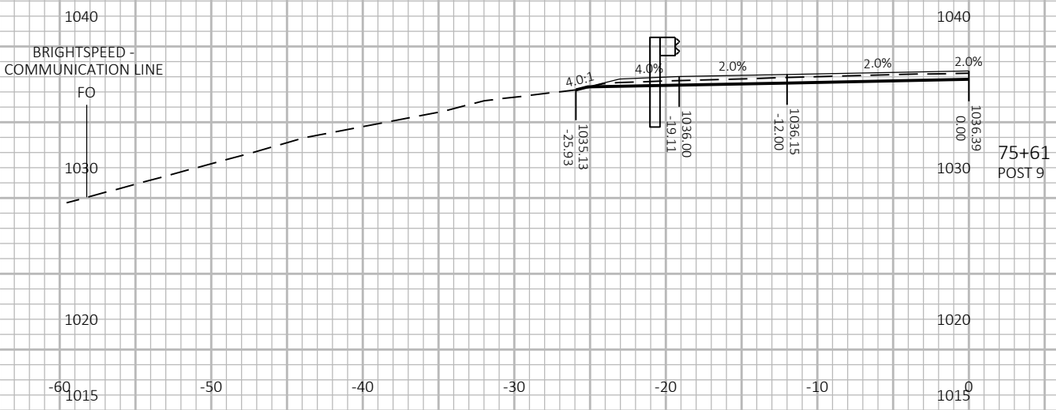
327+89 GUARDRAIL AND DRIVEWAY

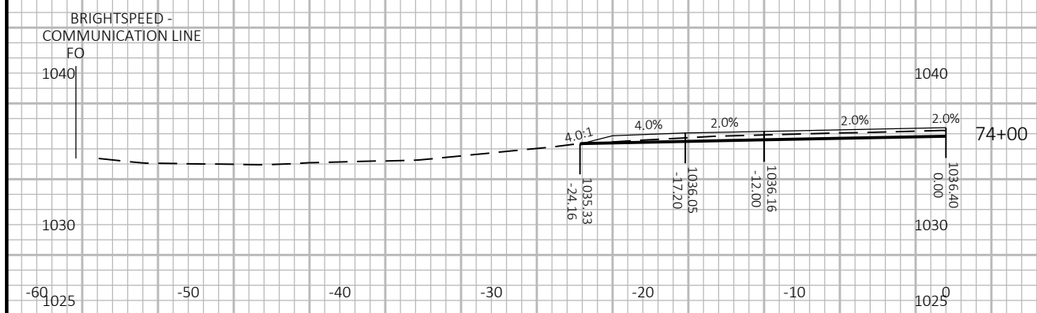
STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.15	
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
327+89.03	32654.61	0.00	1.72	0.06	0	0	0	0	0
328+00.00	32665.58	10.97	1.67	0.03	1	0	1	0	1
329+00.00	32765.58	100.00	0.25	0.69	4	1	5	1	4
329+04.23	32769.81	4.23	0.27	3.05	0	0	5	1	4
329+29.25	32794.83	25.02	1.27	14.06	1	8	6	10	-4
329+54.24	32819.81	24.98	1.35	2.71	1	8	7	20	-13
330+00.00	32865.58	45.77	2.05	0.16	3	2	10	22	-12
330+50.00	32915.58	50.00	3.68	0.00	5	0	15	22	-7
331+00.00	32965.58	50.00	2.70	0.66	6	1	21	23	-2
331+50.00	33015.58	50.00	3.57	0.00	6	1	27	24	3
331+97.81	33063.39	47.81	8.52	4.16	11	4	38	29	9
332+00.00	33065.58	2.19	6.64	5.41	1	0	39	29	10
332+22.79	33088.37	22.79	2.70	112.16	4	50	43	86	-43
332+47.81	33113.39	25.02	2.70	285.49	3	184	46	298	-252
332+59.93	33125.51	12.12	3.92	318.55	1	136	47	454	-407
332+71.94	33137.51	12.00	2.82	265.16	1	130	48	604	-556
332+96.96	33162.53	25.02	3.13	170.56	3	202	51	836	-785
333+00.00	33165.58	3.05	3.16	163.55	0	19	51	858	-807
333+21.94	33187.52	21.94	3.30	59.04	3	90	54	961	-907
333+50.00	33215.58	28.06	3.18	77.58	3	71	57	1043	-986
334+00.00	33265.58	50.00	4.14	0.61	7	72	64	1126	-1062
334+01.25	33266.83	1.25	4.14	0.61	0	0	64	1126	-1062
334+50.00	33315.58	48.75	2.99	99.46	6	90	70	1229	-1159
335+00.00	33365.58	50.00	2.75	88.83	5	174	75	1429	-1354
335+40.69	33406.26	40.68	1.92	80.05	4	127	79	1576	-1497
335+65.67	33431.25	24.99	1.25	190.42	1	125	80	1719	-1639
335+90.69	33456.27	25.02	0.92	143.43	1	155	81	1898	-1817
336+00.00	33465.58	9.31	0.77	126.26	0	46	81	1950	-1869
337+00.00	33565.58	100.00	0.41	0.53	2	235	83	2221	-2138
337+18.54	33584.12	18.54	3.21	0.00	1	0	84	2221	-2137

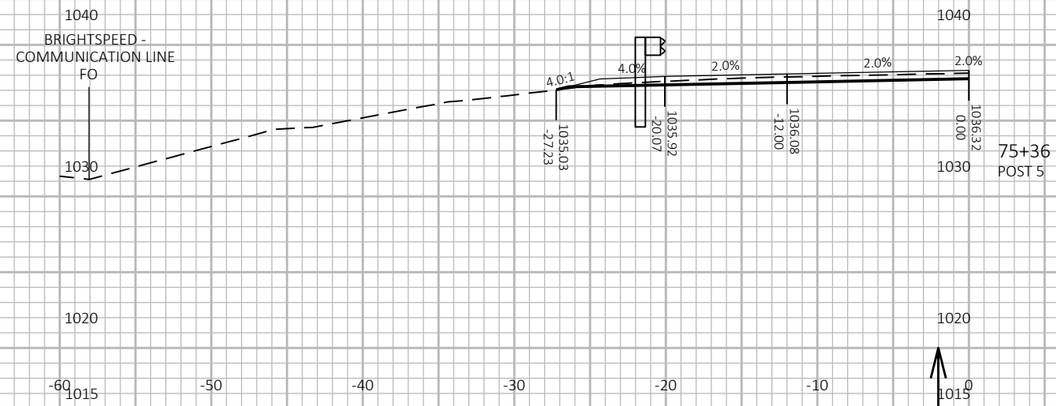
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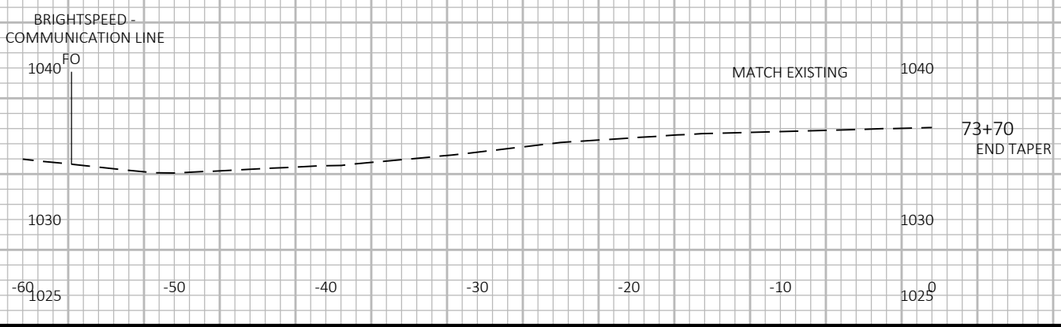
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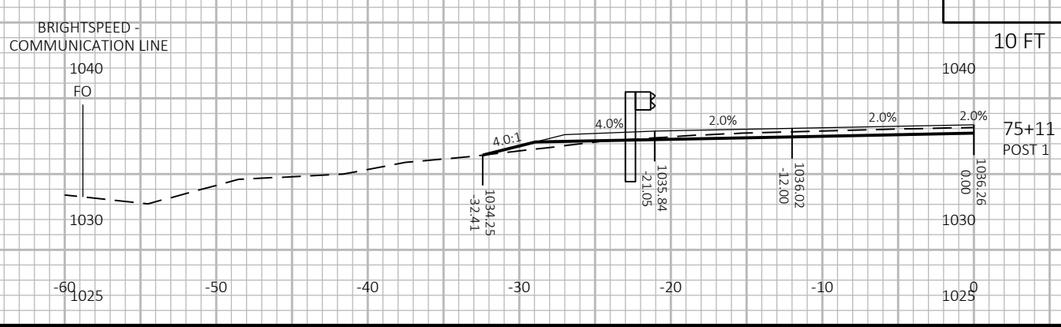












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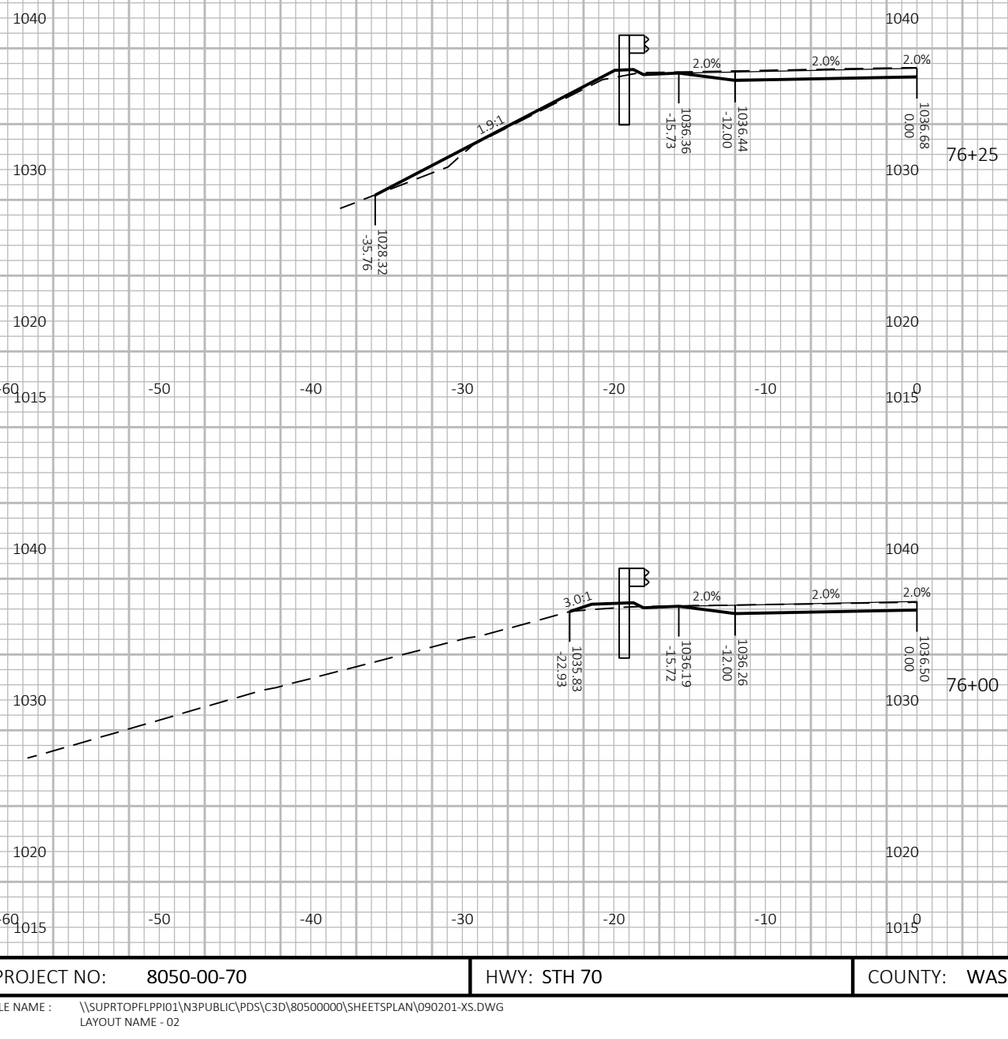
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FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01

PLOT DATE : 7/24/2026 4:21 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

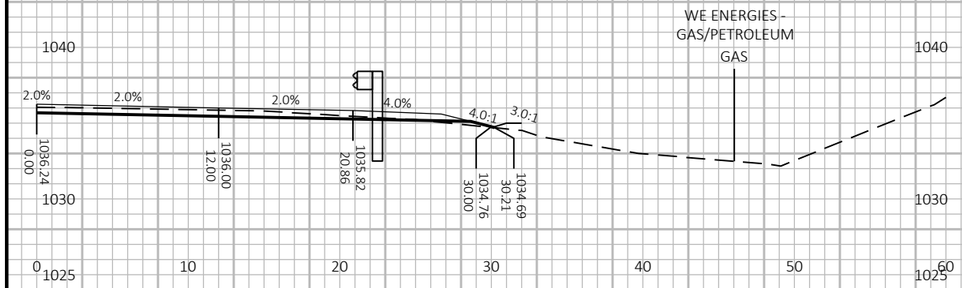
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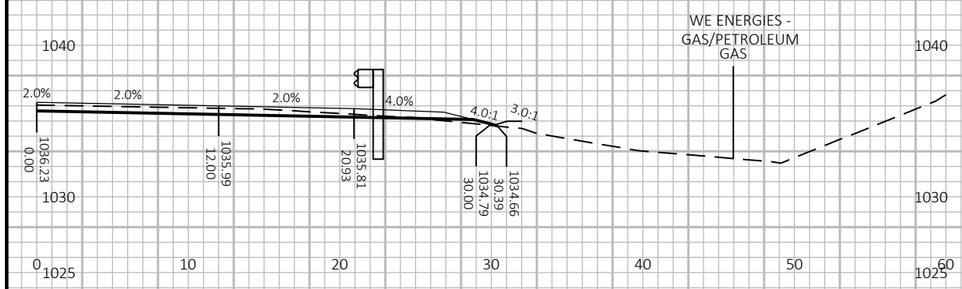
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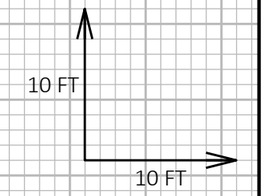
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LAYOUT NAME - 02

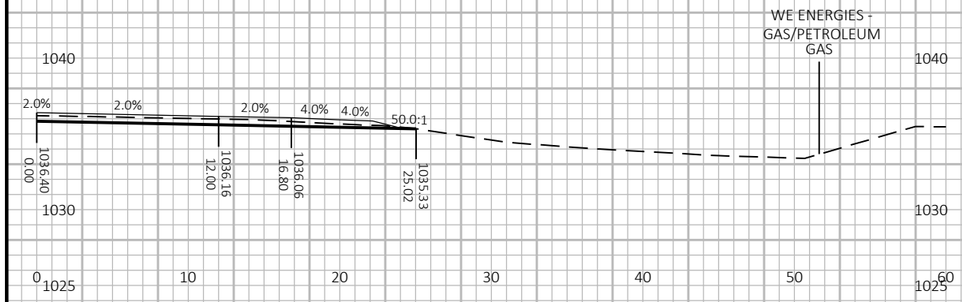
PLOT DATE : 7/24/2026 4:21 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

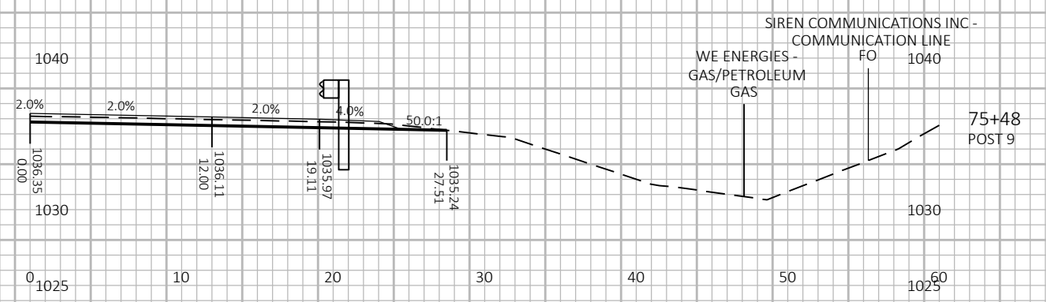
WISDOT/CADDS SHEET 49

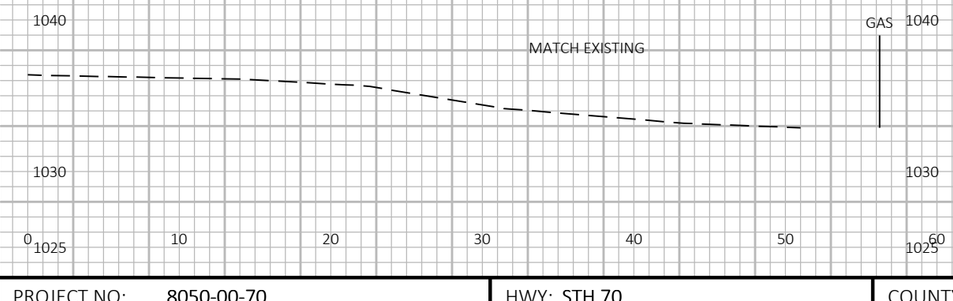


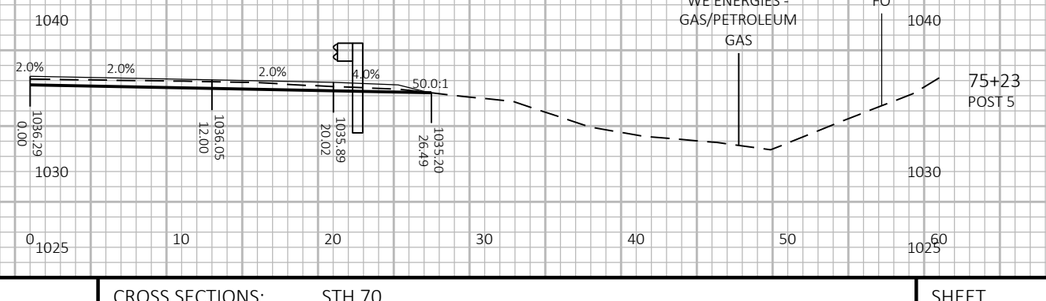












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PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 140	E

FILE NAME : \\SUPTROPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03

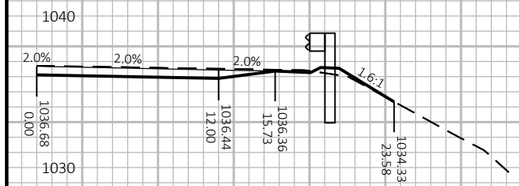
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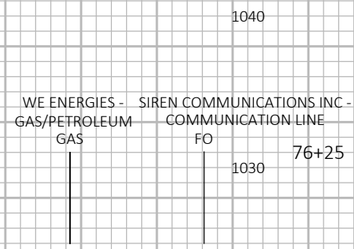
PLOT BY : HAUSER, STEPHEN R

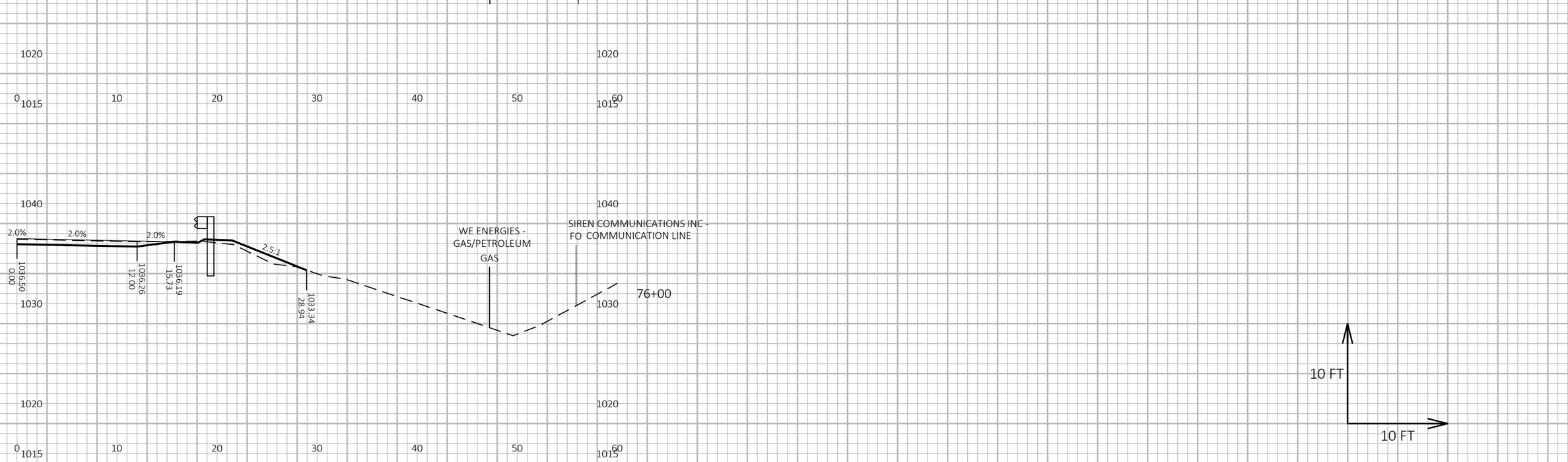
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







9

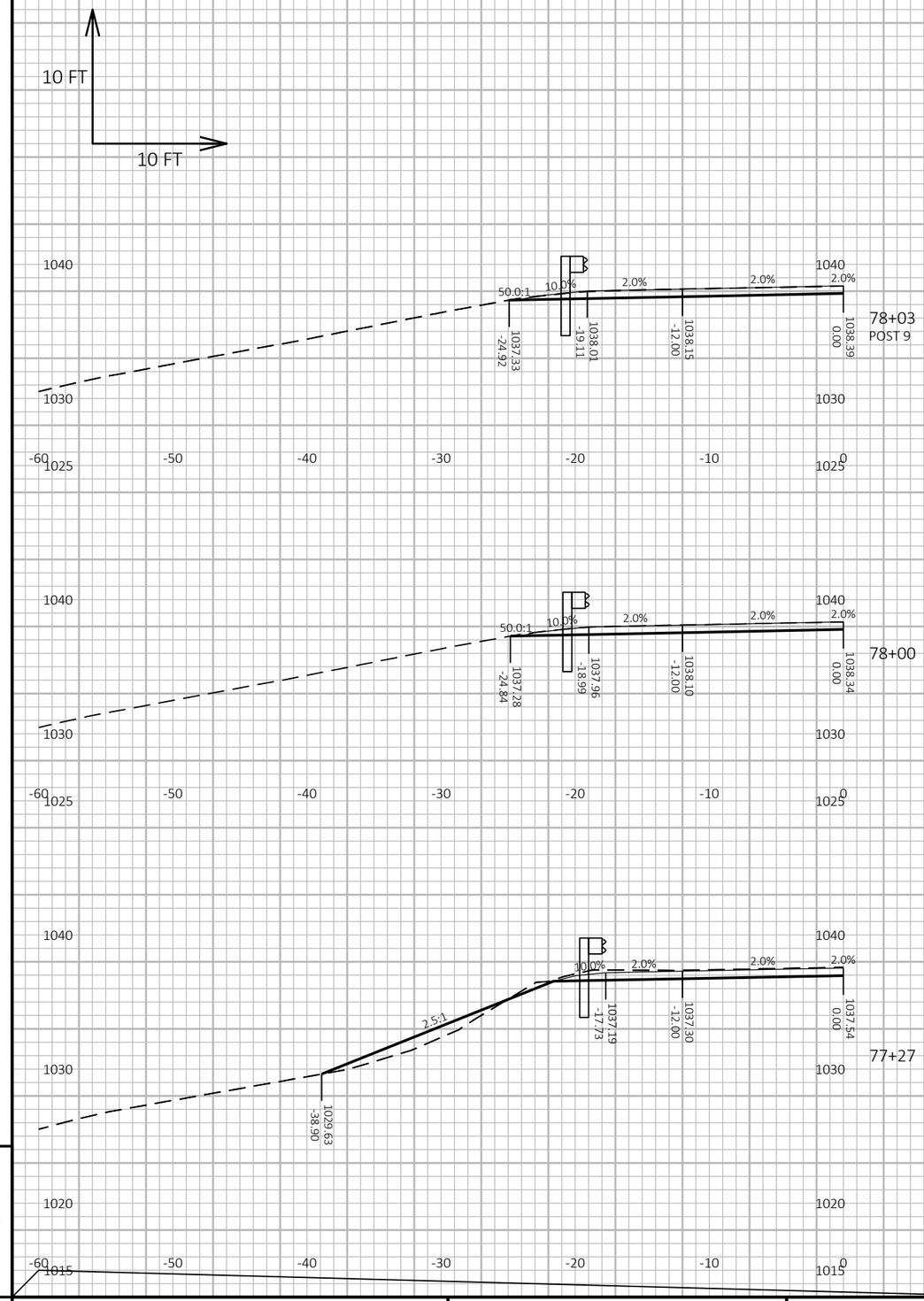
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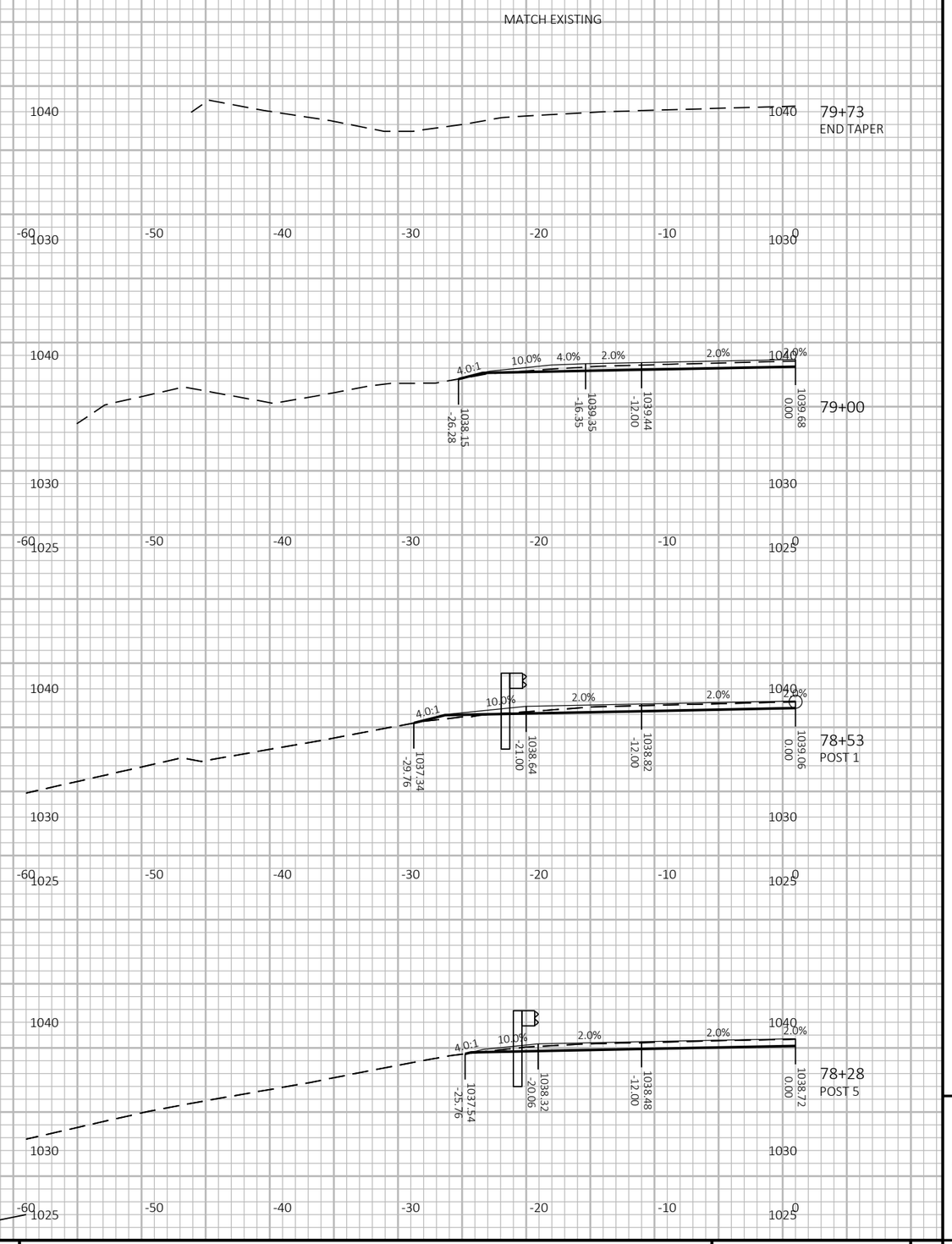
PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 141	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 7/24/2026 4:21 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



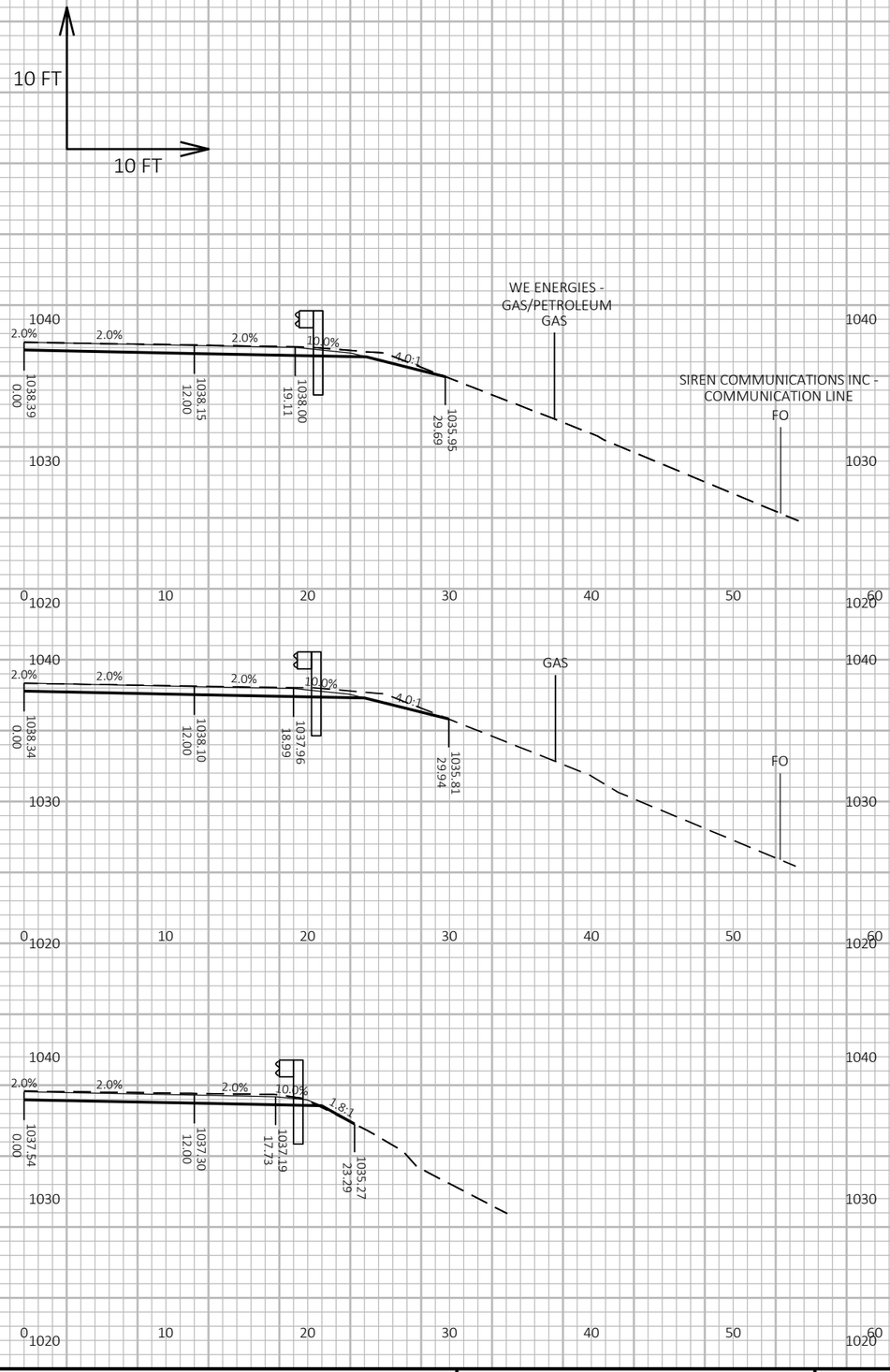


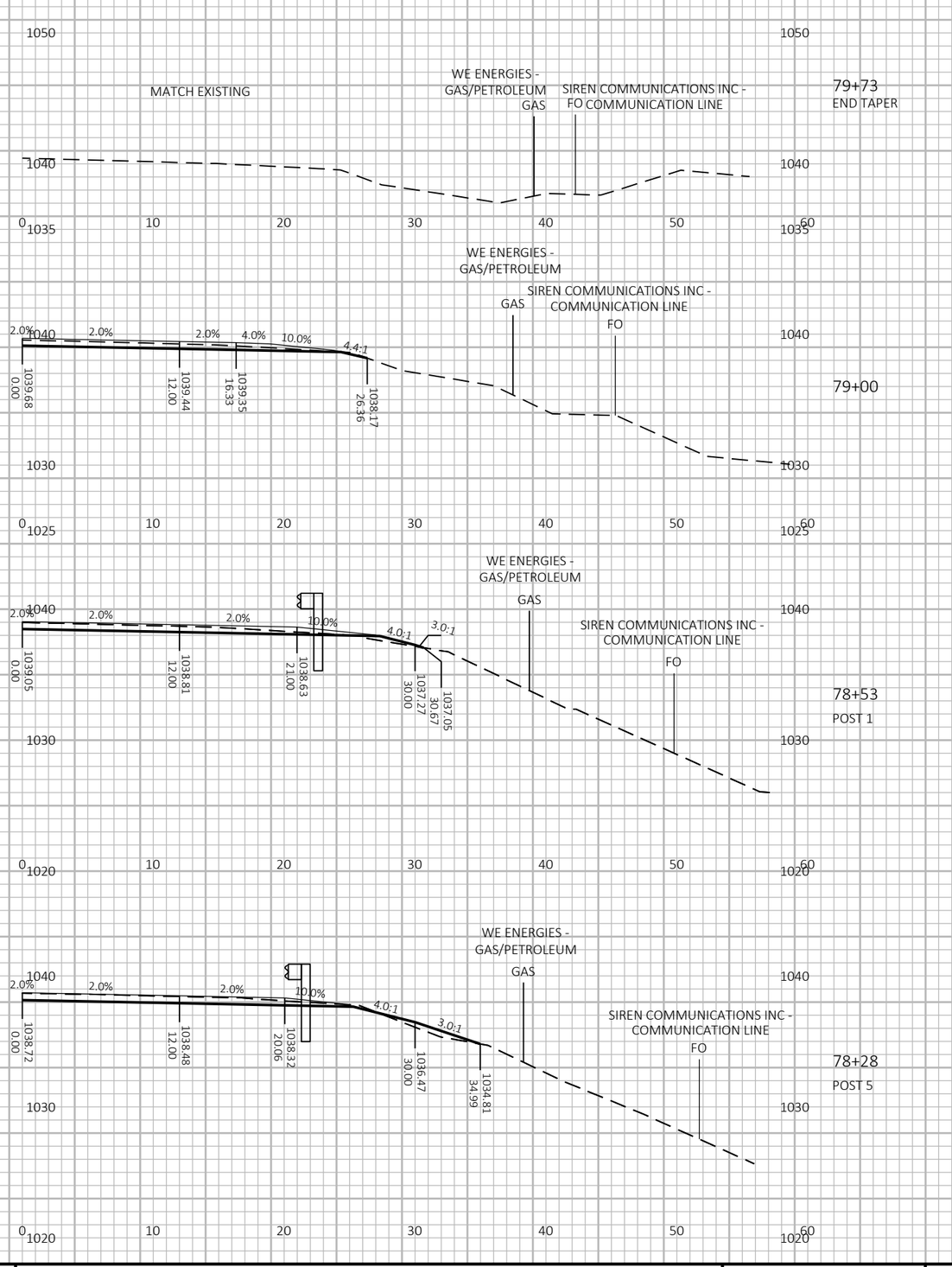
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PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 142	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05
PLOT DATE : 7/24/2026 4:21 PM
PLOT BY : HAUSER, STEPHEN R
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49





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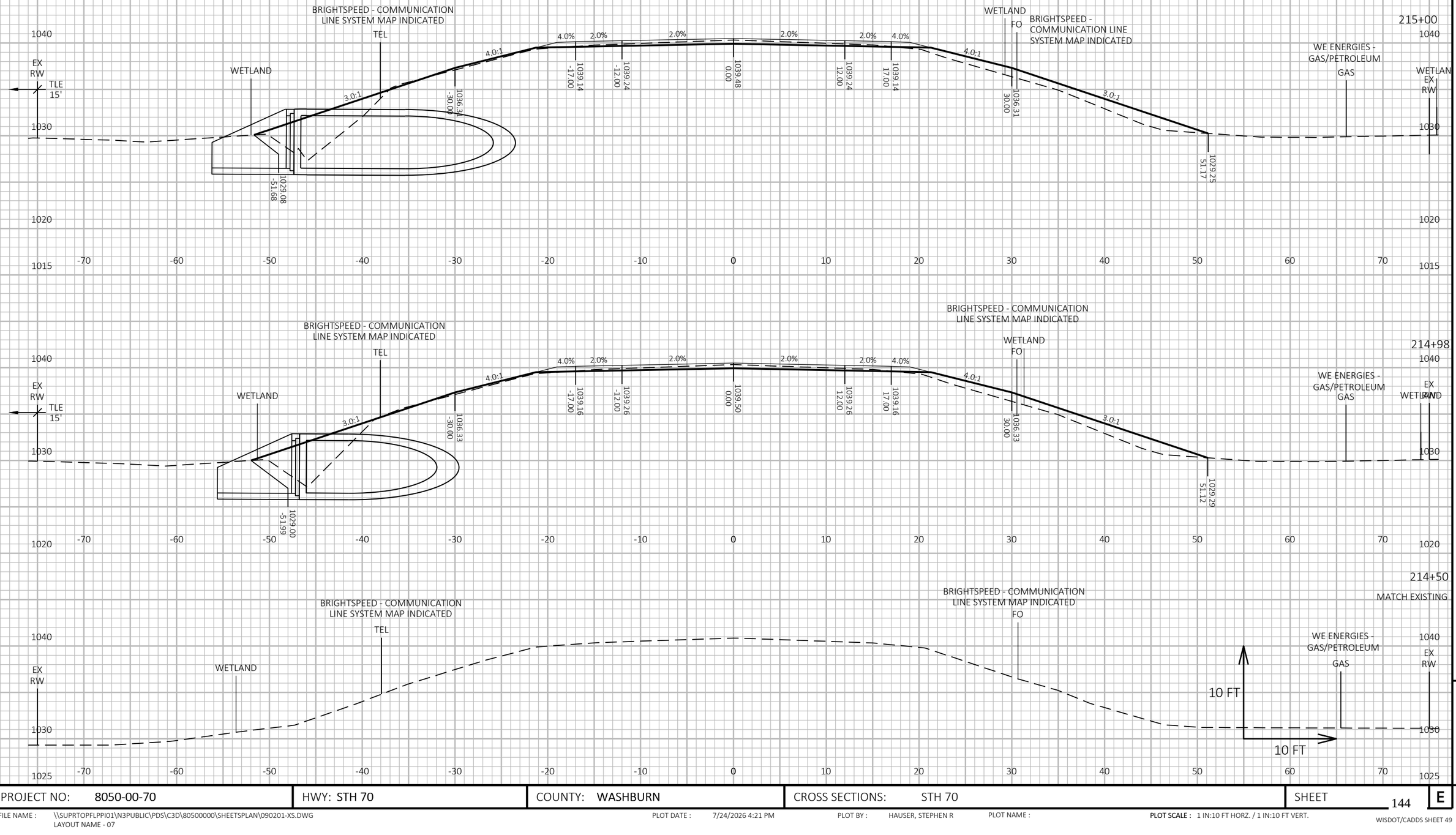
PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 143	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 7/24/2026 4:21 PM PLOT BY : HAUSER, STEPHEN 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: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 144	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 07

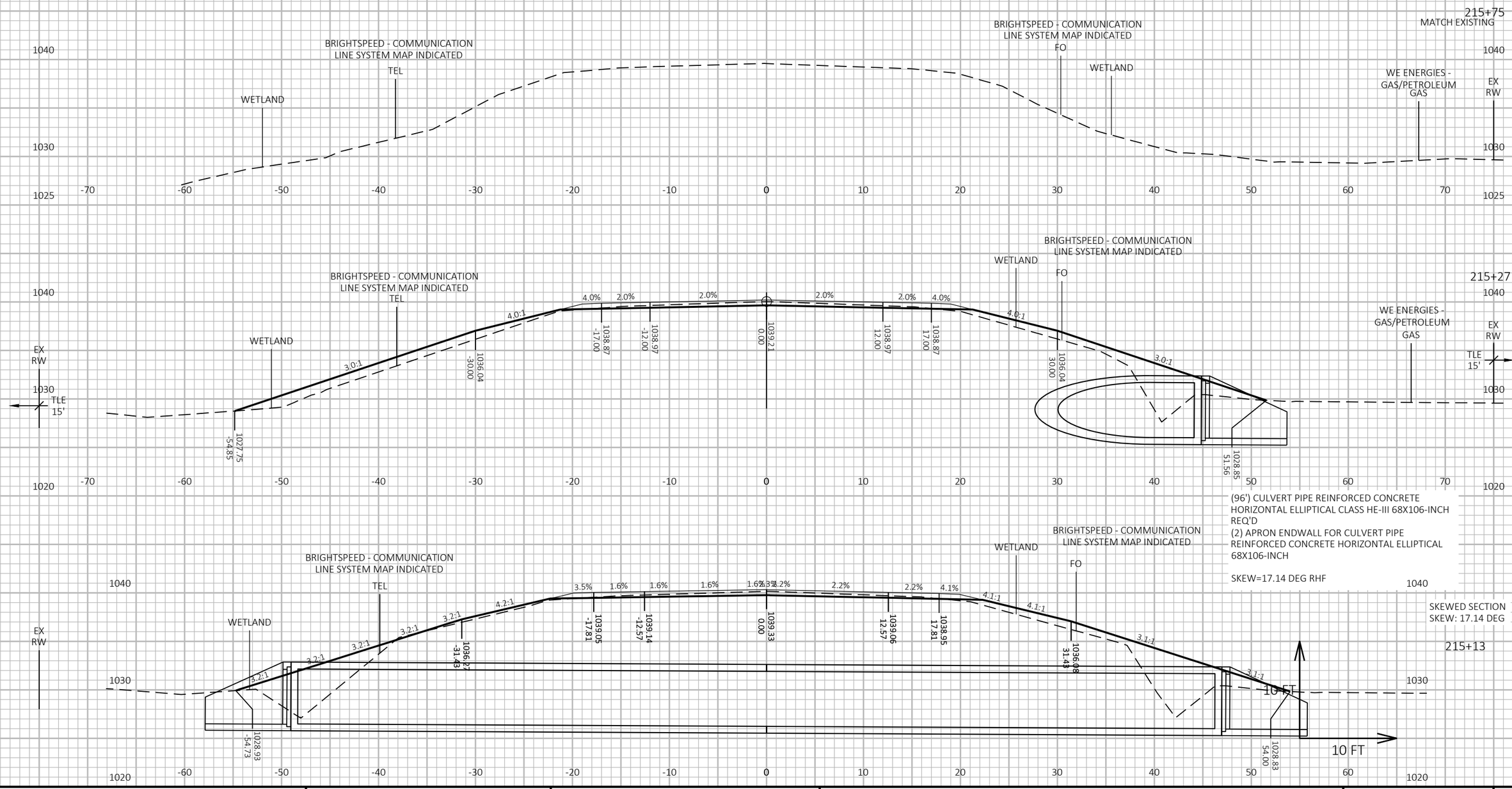
PLOT DATE : 7/24/2026 4:21 PM

PLOT BY : HAUSER, STEPHEN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



(96') CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 68X106-INCH REQ'D
(2) APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 68X106-INCH

SKEW=17.14 DEG RHF

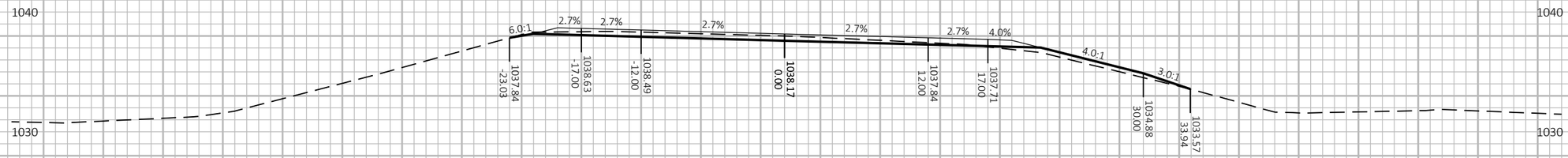
9 9

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 145	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 08
PLOT DATE : 7/24/2026 4:21 PM
PLOT BY : HAUSER, STEPHEN R
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

MATCH EXISTING

228+49



228+00

(70') CLASS III-A NON-METAL CULVERT
PIPE 30-INCH REQ'D
(2) APRON ENDWALLS FOR CULVERT
PIPE 30-INCH REQ'D



WE ENERGIES -
GAS/PETROLEUM
GAS

227+96

MATCH EXISTING

227+42

10 FT

10 FT

9

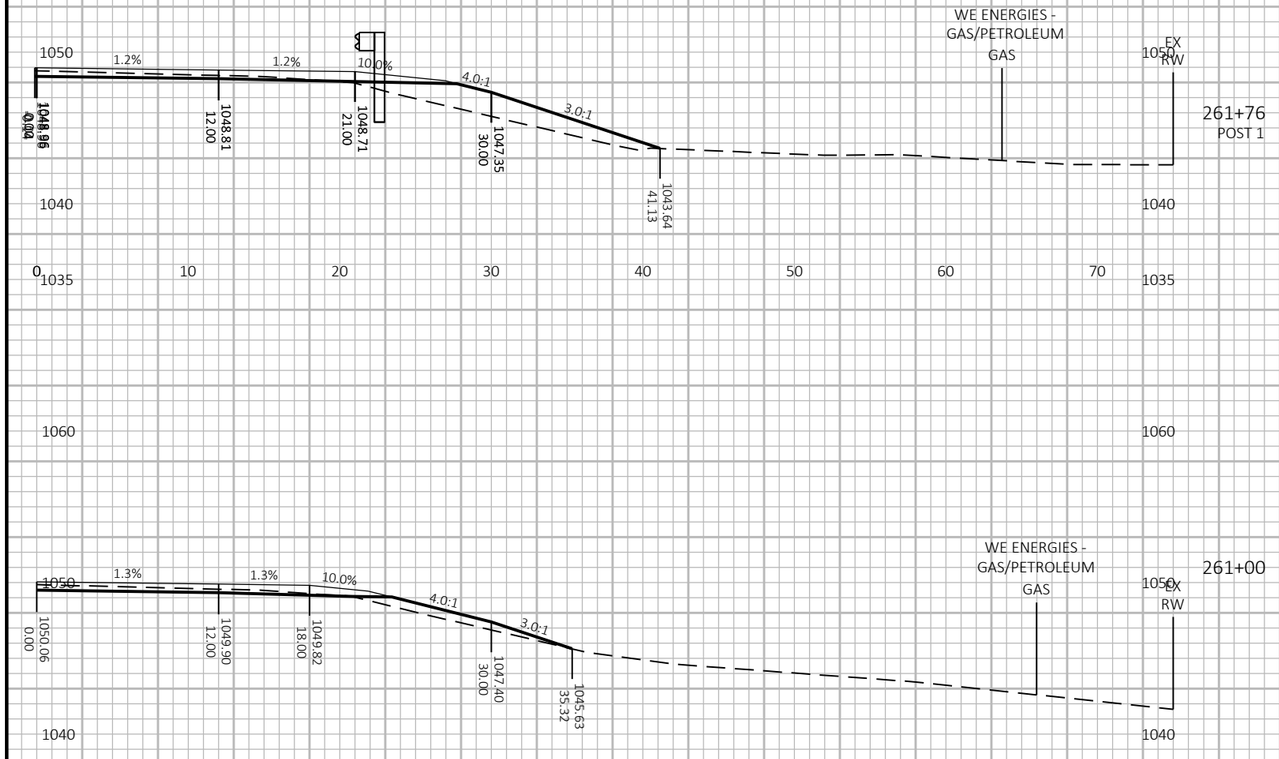
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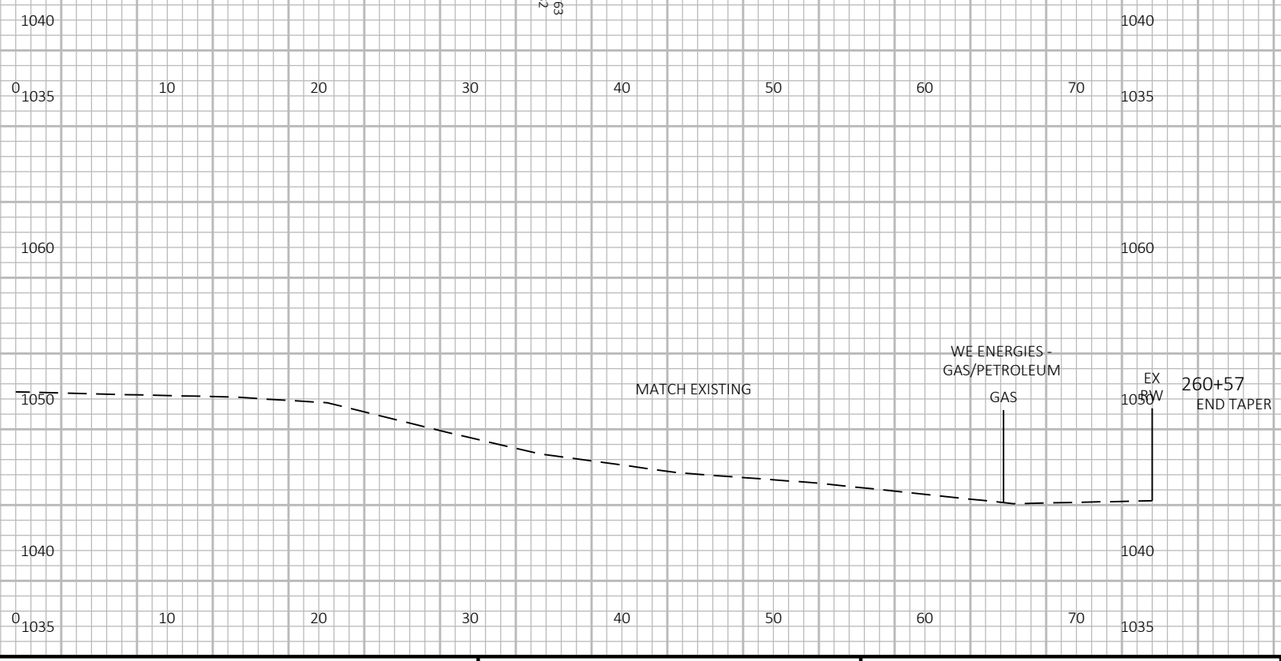
PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 146	E

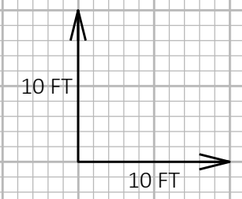
FILE NAME : \\SUPTROPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 09

PLOT DATE : 7/24/2026 4:21 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







9

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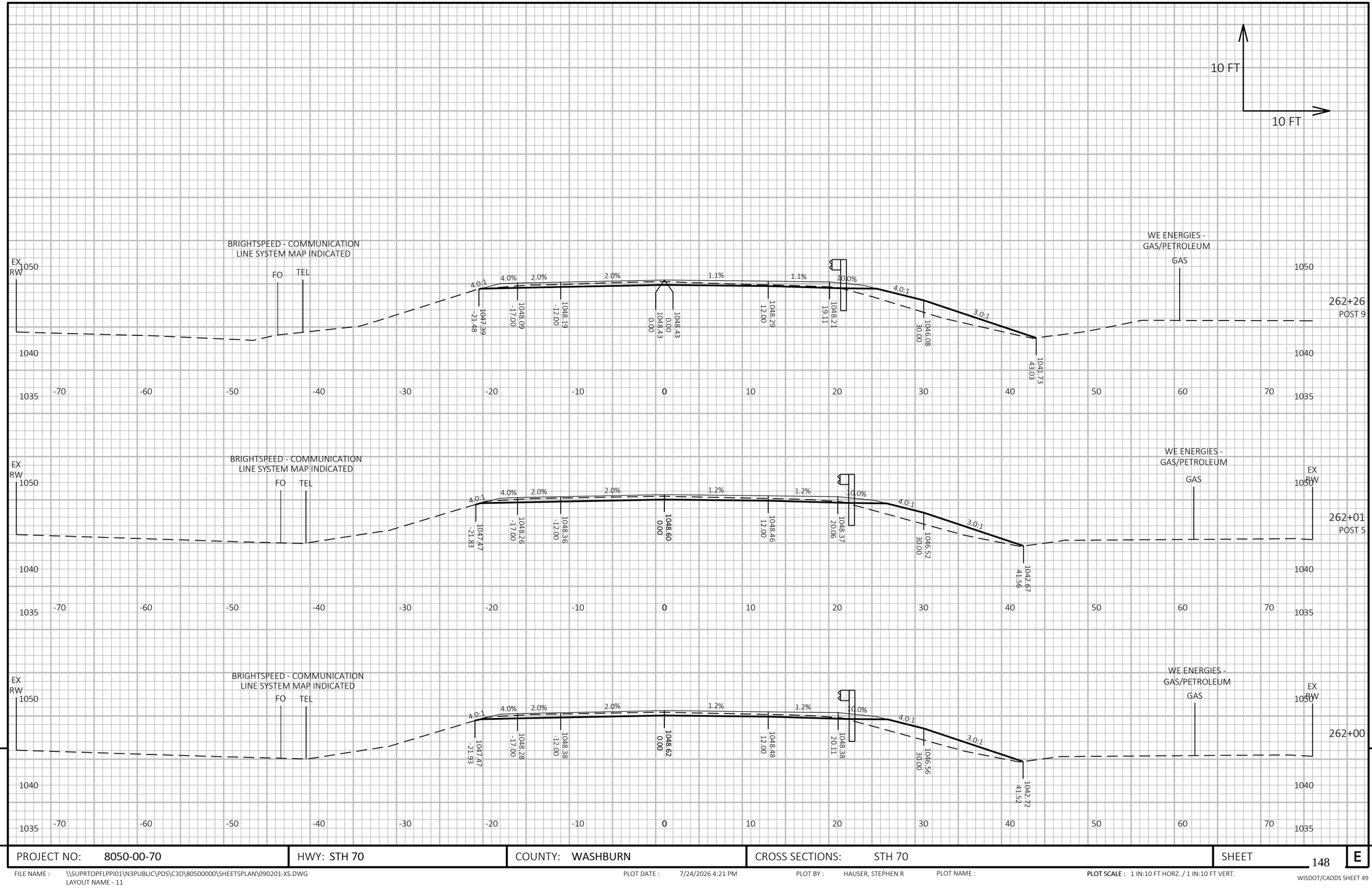
PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 147	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 10

PLOT DATE : 7/24/2026 4:21 PM PLOT BY : HAUSER, STEPHEN 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: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 148	E

FILE NAME : \\SUPTROPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 11

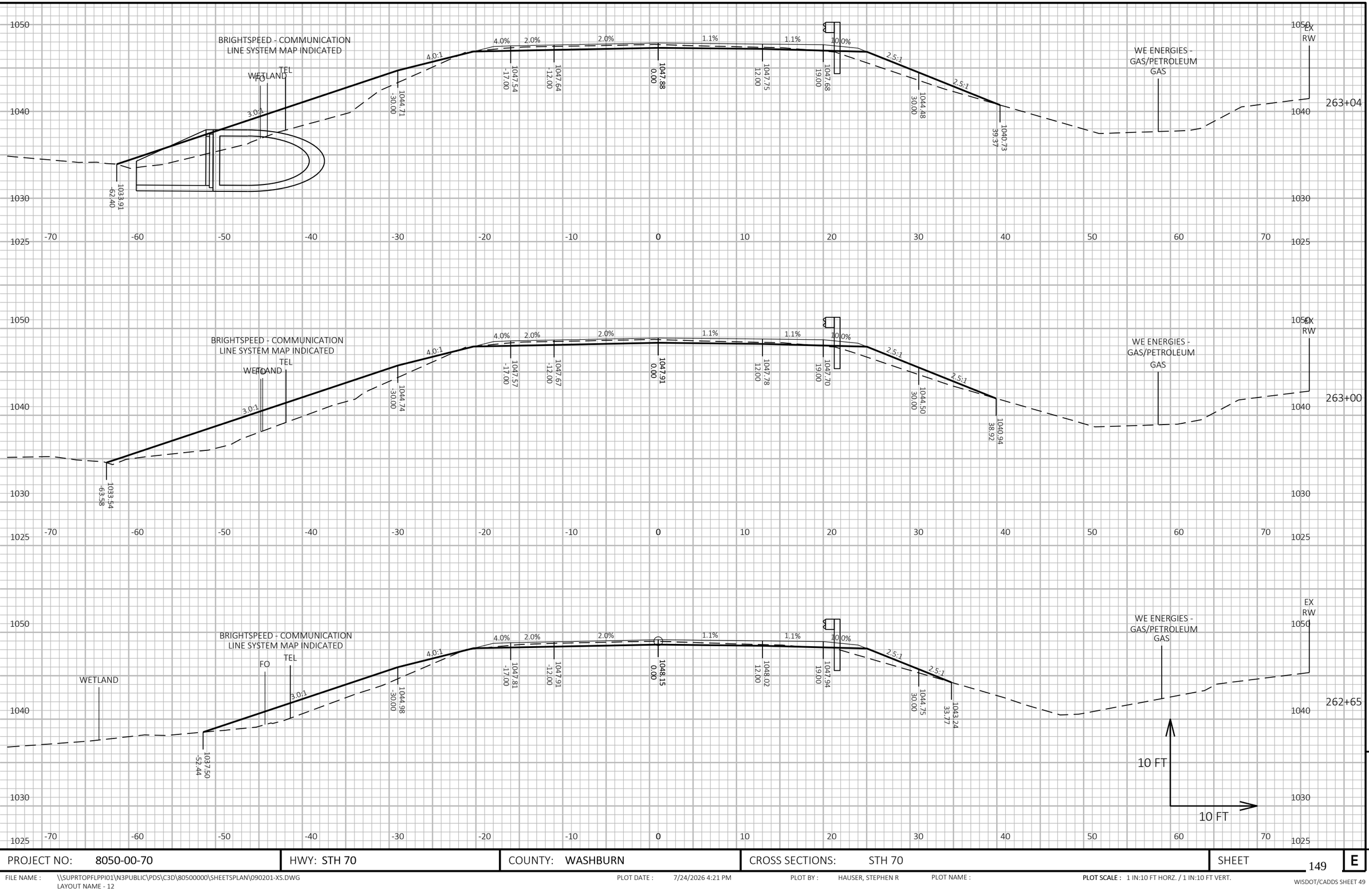
PLOT DATE : 7/24/2026 4:21 PM

PLOT BY : HAUSER, STEPHEN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

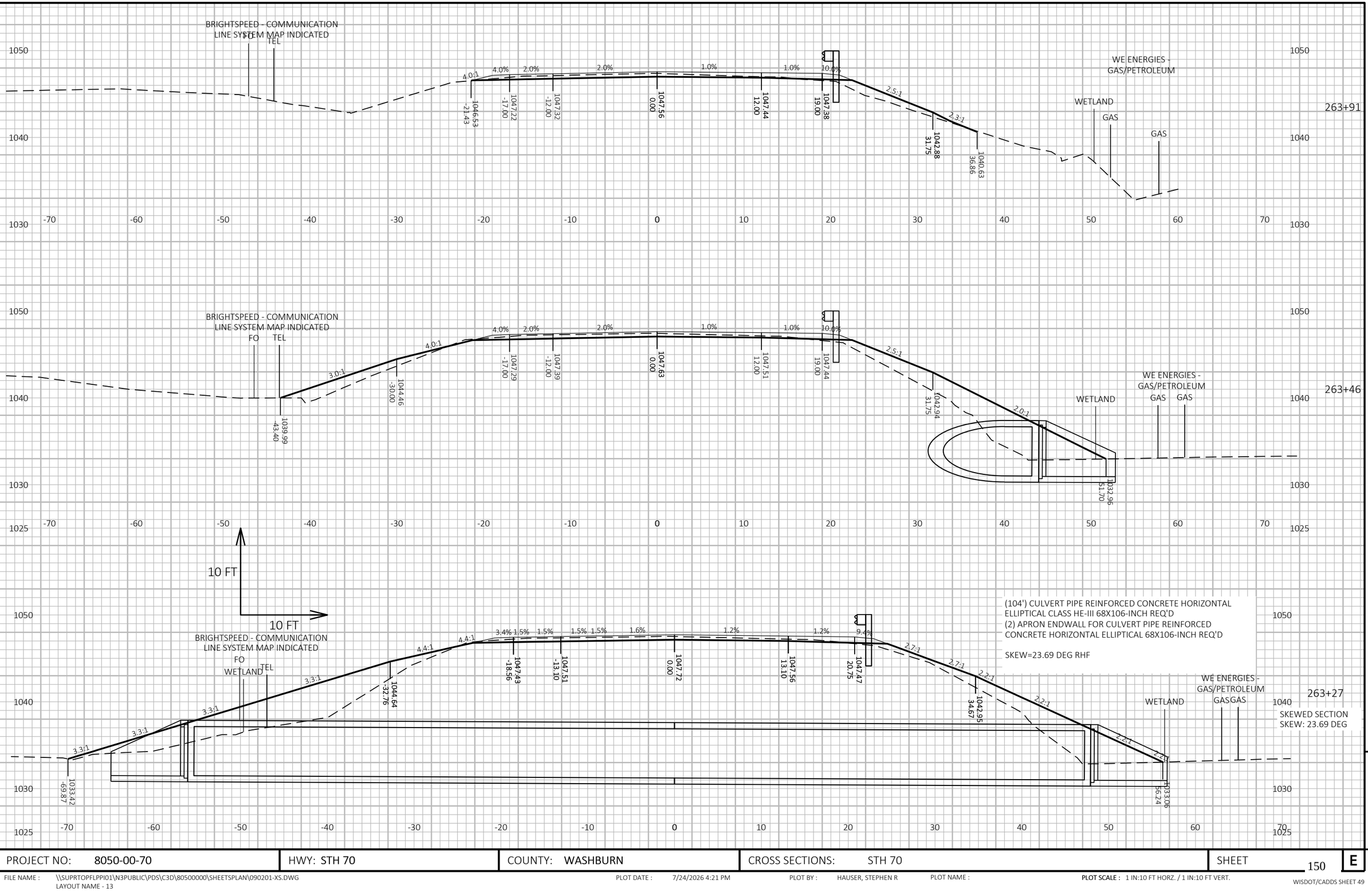


PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 149	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 7/24/2026 4:21 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

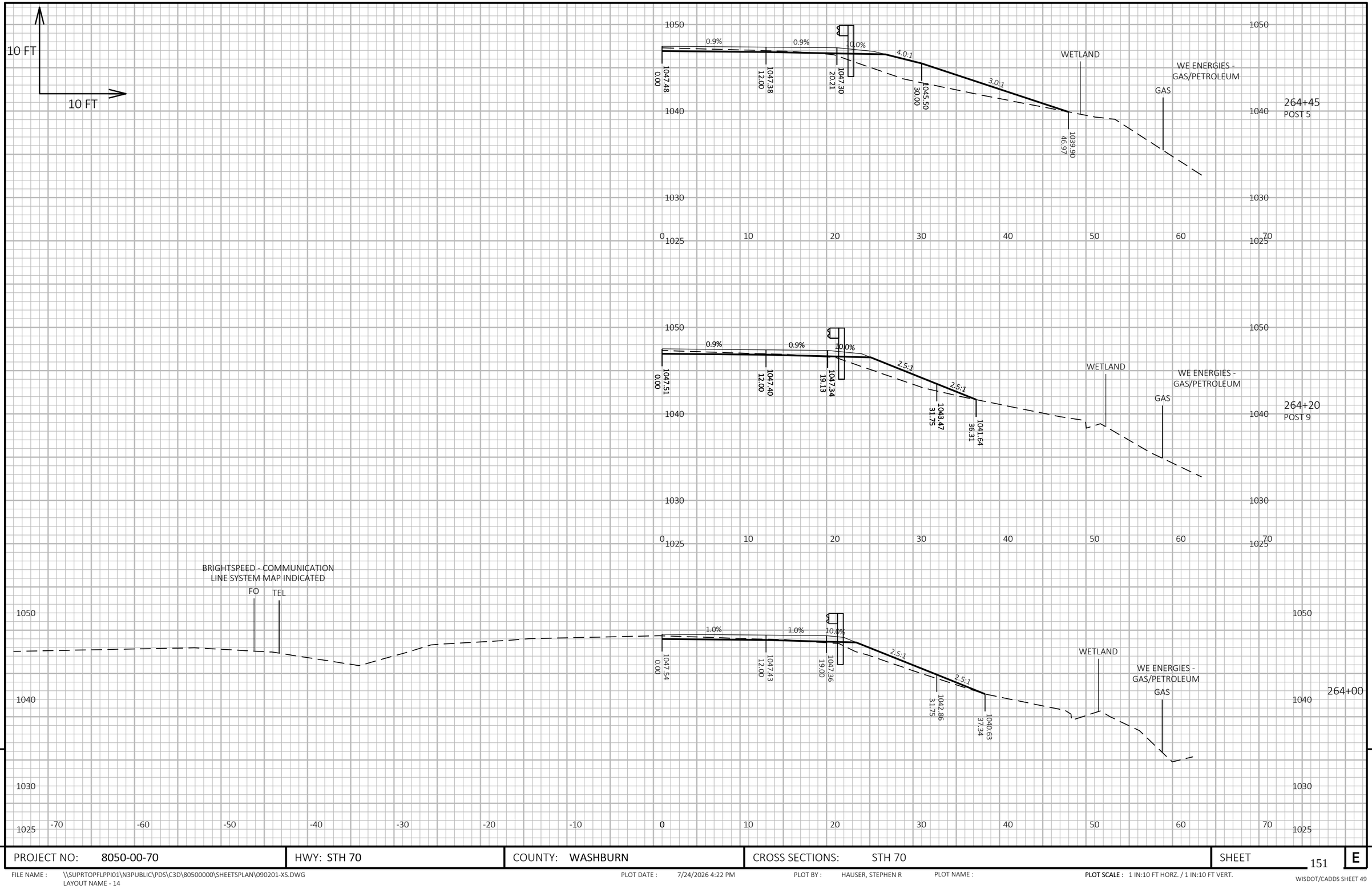


PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 150	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 13

PLOT DATE : 7/24/2026 4:21 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

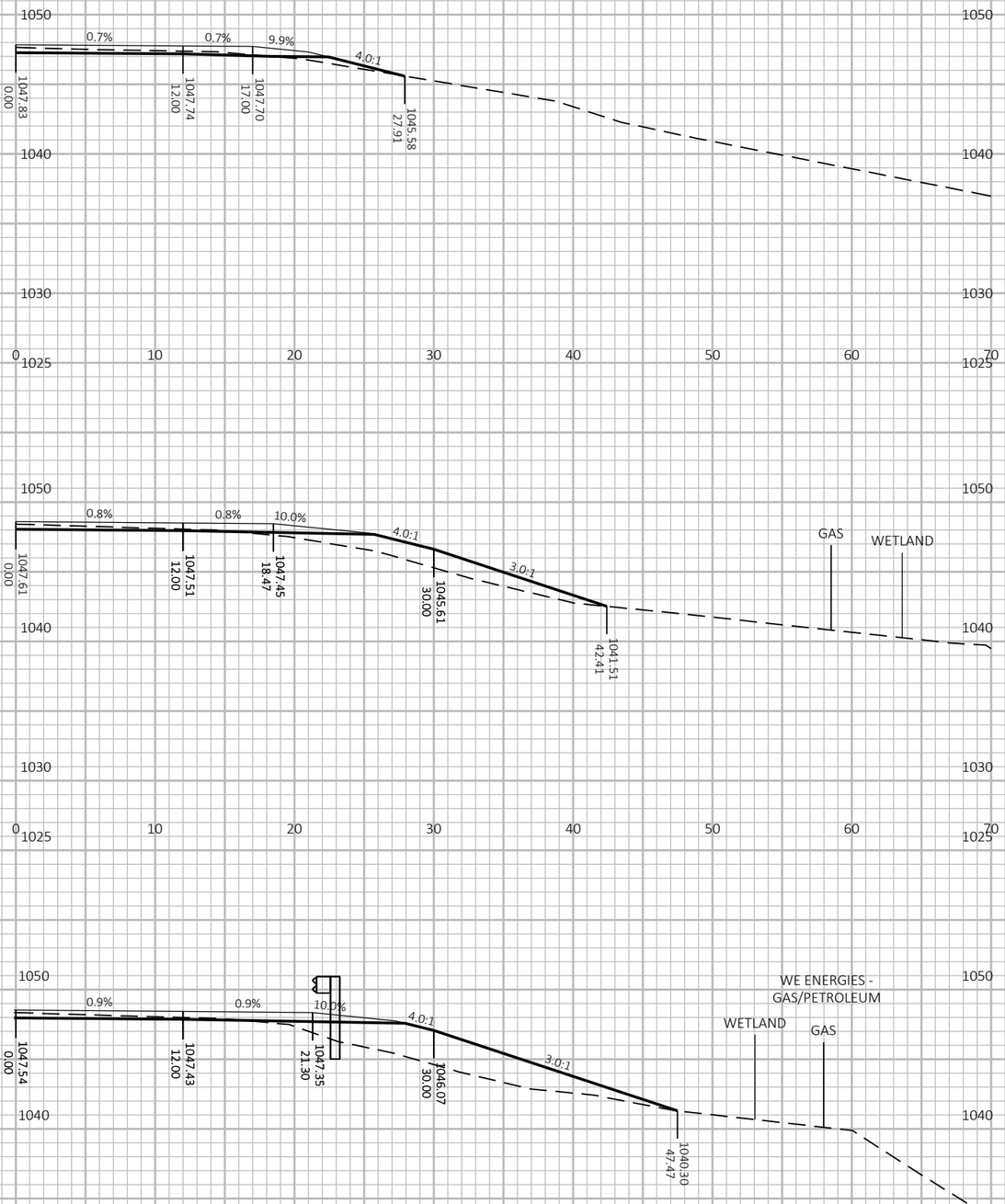
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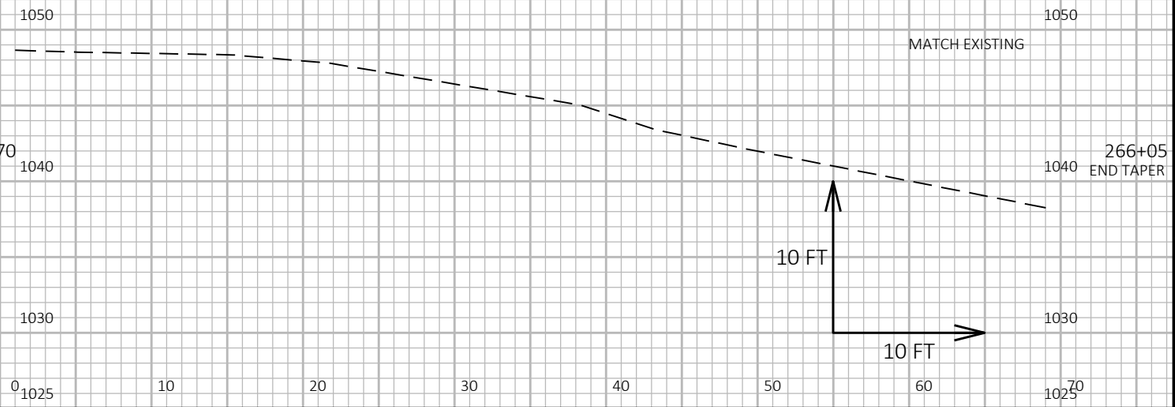
PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 151	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 14

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN 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: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 152	E

FILE NAME : \\SUPTROPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 15

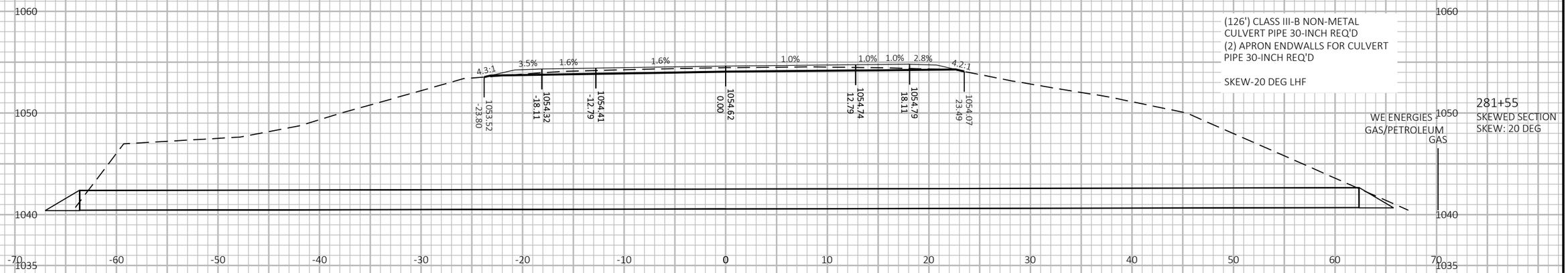
PLOT DATE : 7/24/2026 4:22 PM

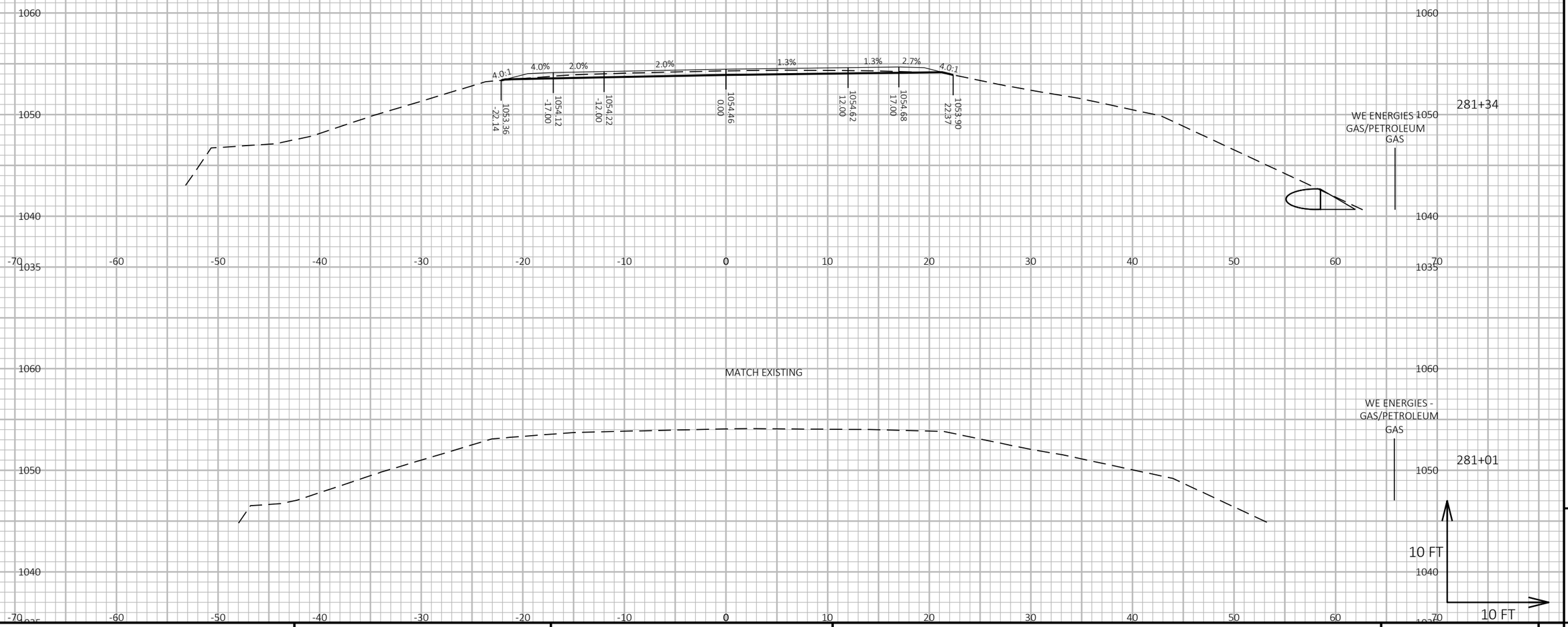
PLOT BY : HAUSER, STEPHEN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

9

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 153	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 16

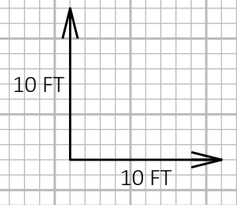
PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

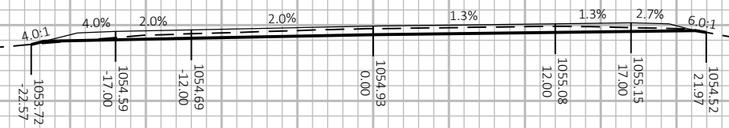
WISDOT/CADDS SHEET 49

MATCH EXISTING

WE ENERGIES - GAS/PETROLEUM GAS

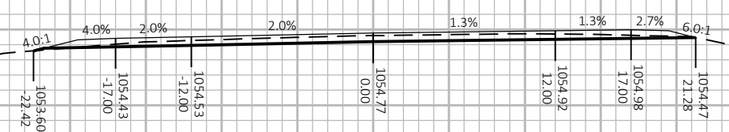
282+07





WE ENERGIES - GAS/PETROLEUM GAS

282+00



WE ENERGIES - GAS/PETROLEUM GAS

281+77

9

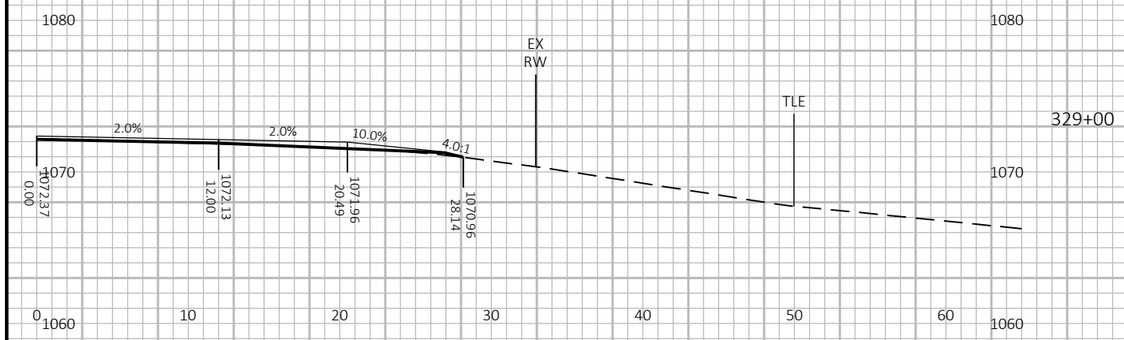
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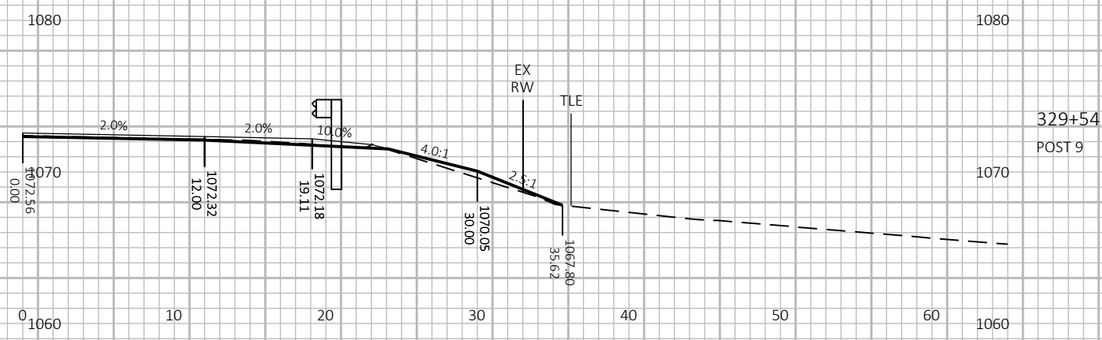
PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 154	E

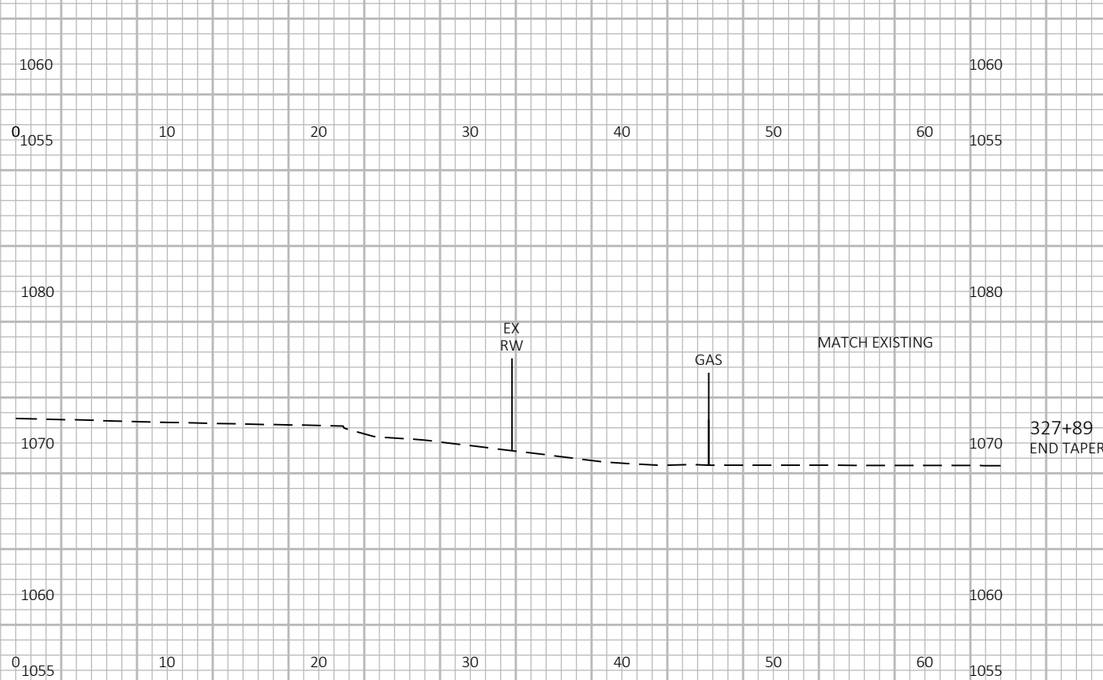
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LAYOUT NAME - 17

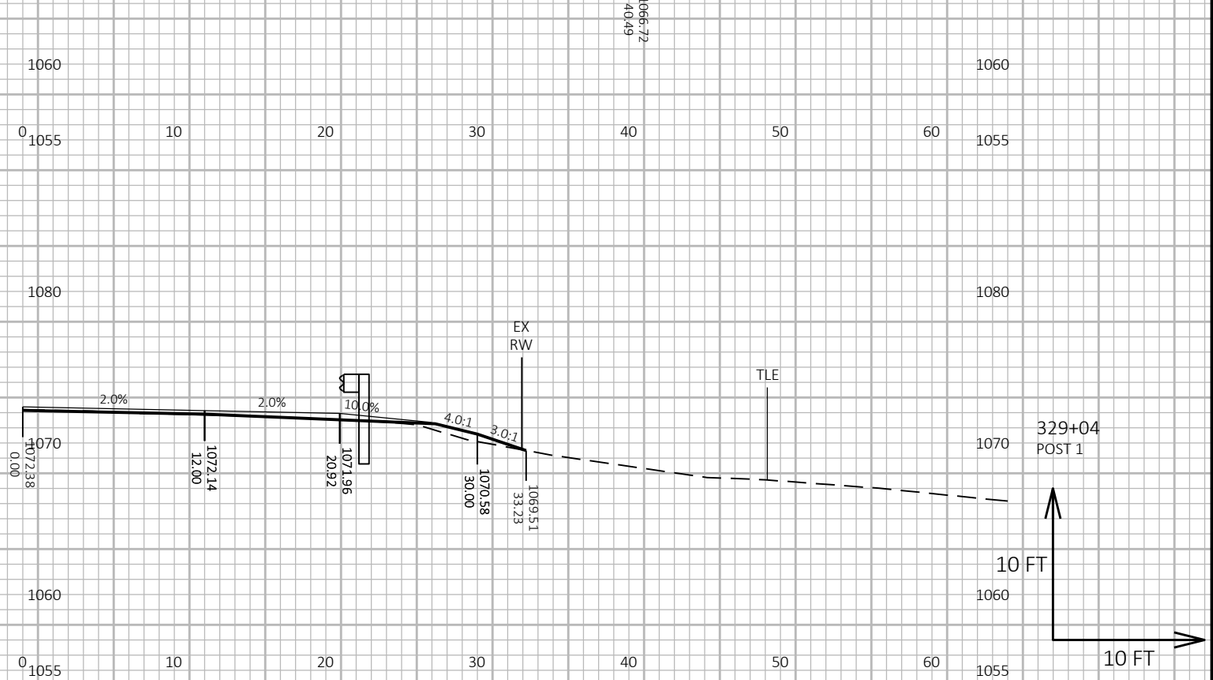
PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49









9

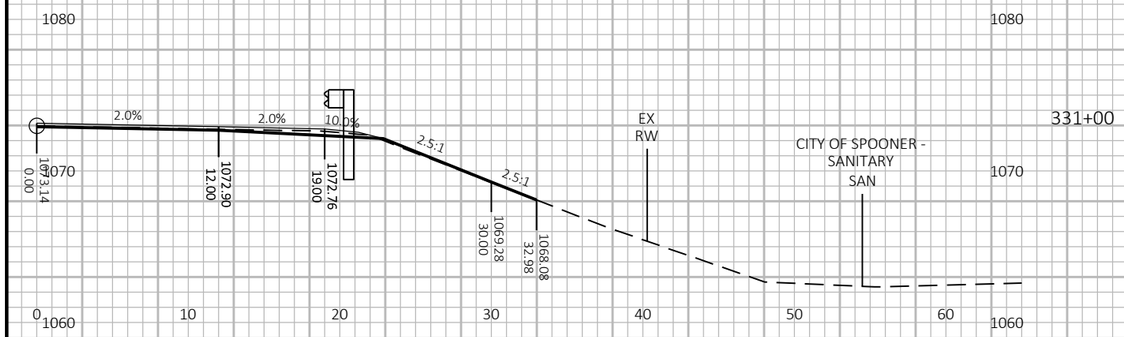
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PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 155	E

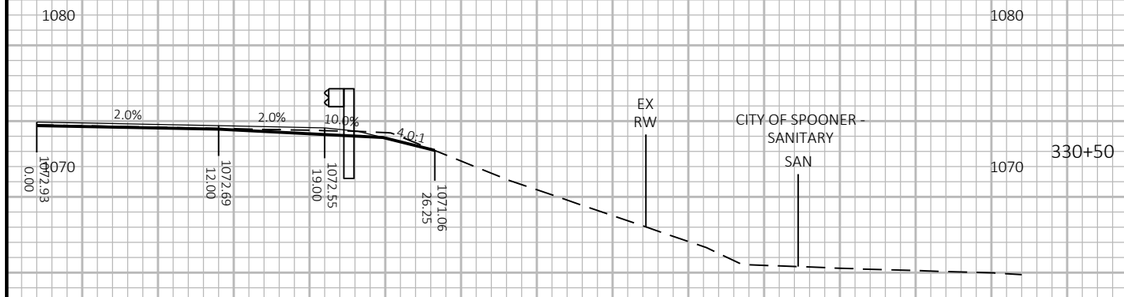
FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 18

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

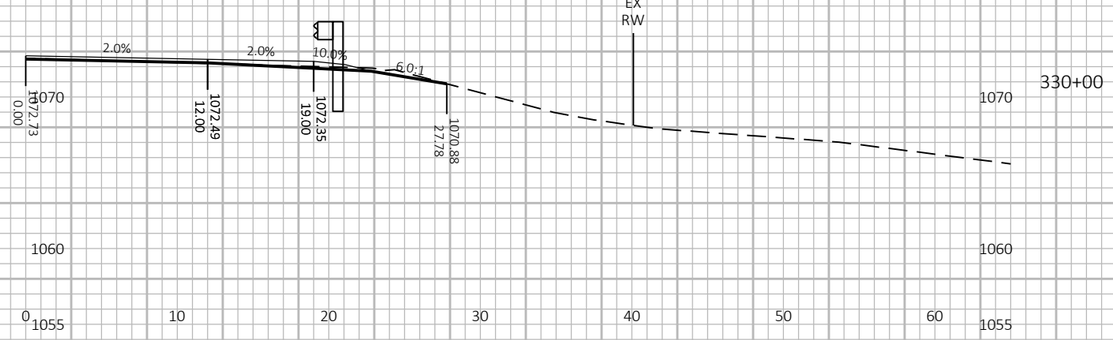
WISDOT/CADDS SHEET 49



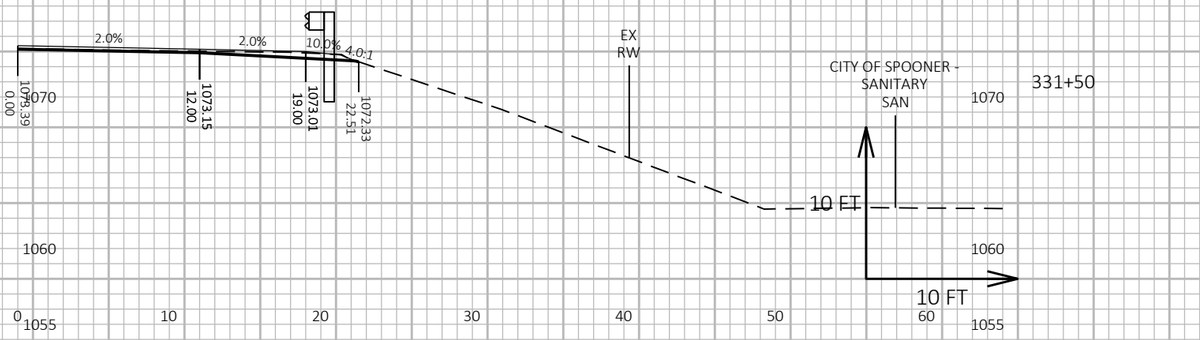
331+00



330+50



330+00

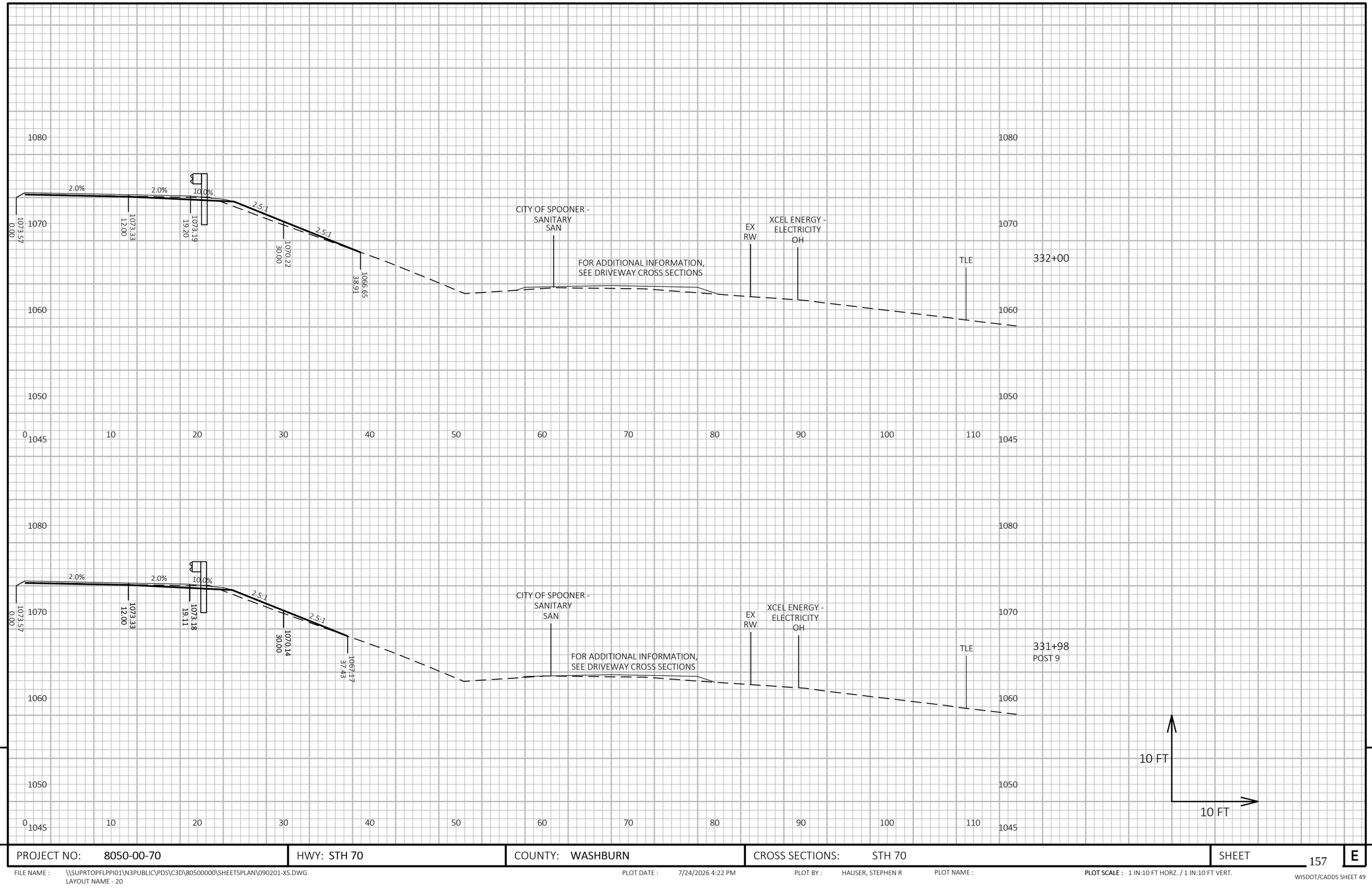


331+50

9

9

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 156	E



9

9

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 157	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 20

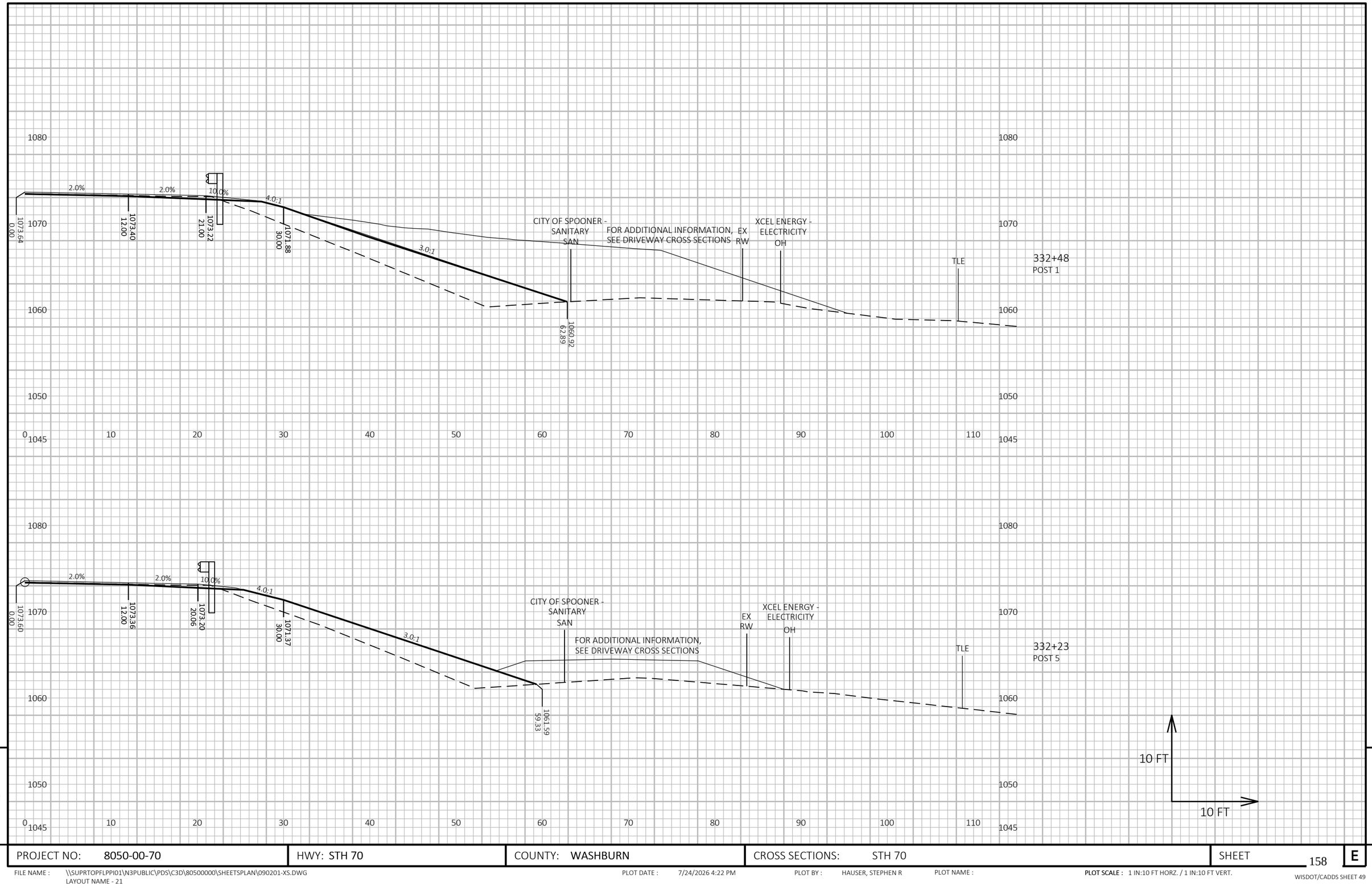
PLOT DATE : 7/24/2026 4:22 PM

PLOT BY : HAUSER, STEPHEN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 158	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 21

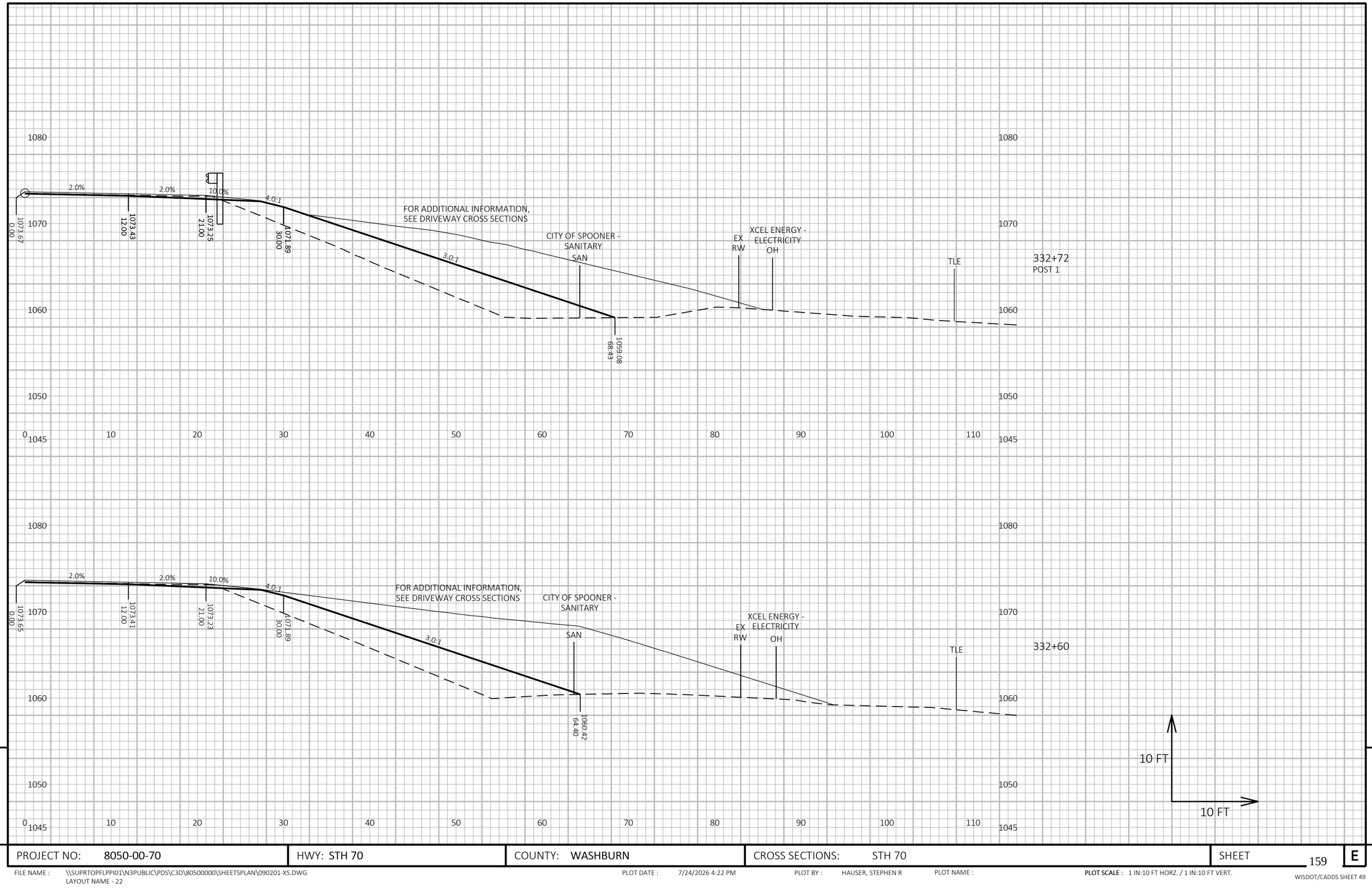
PLOT DATE : 7/24/2026 4:22 PM

PLOT BY : HAUSER, STEPHEN R

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

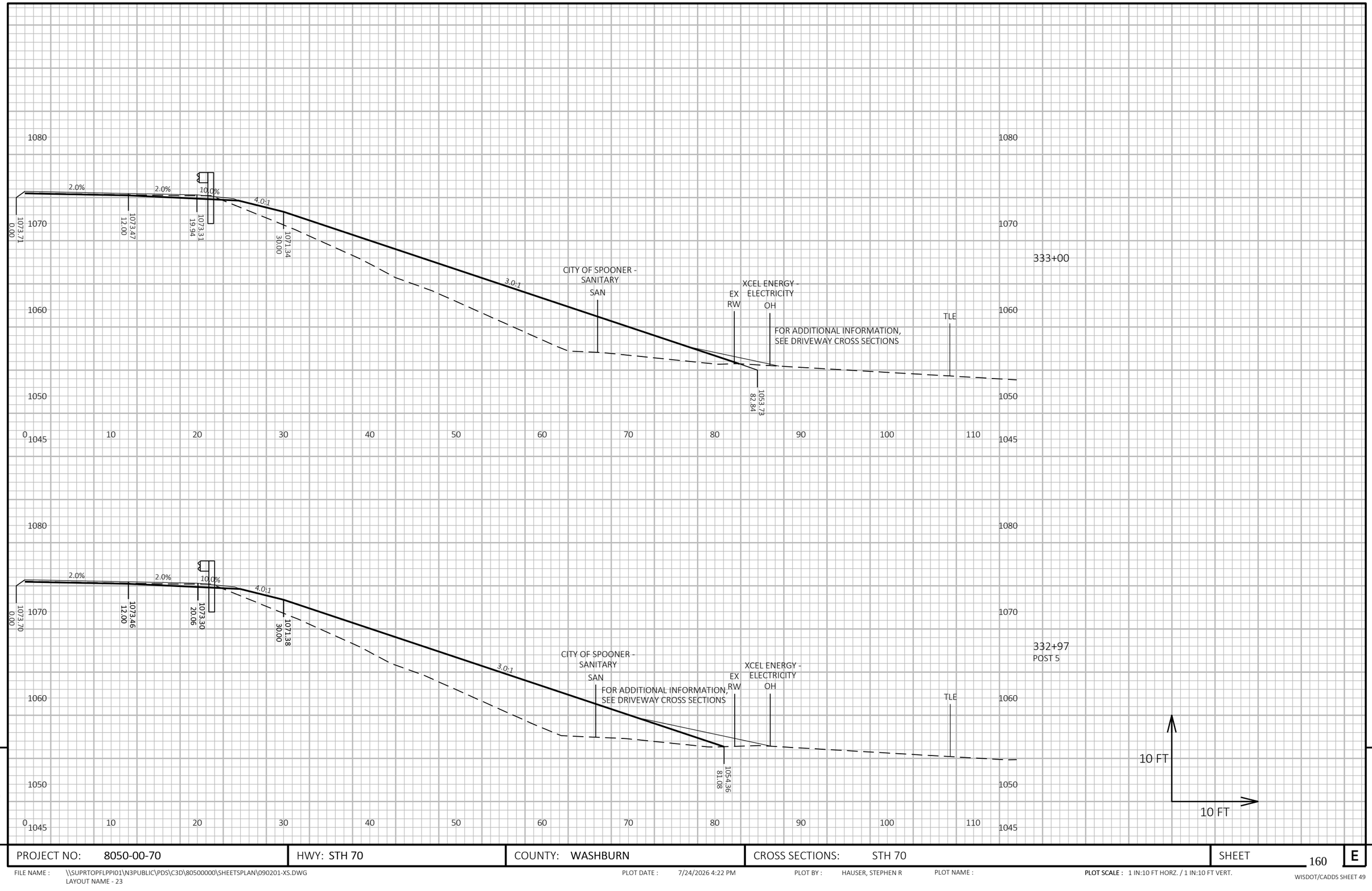
9

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 159	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 22

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

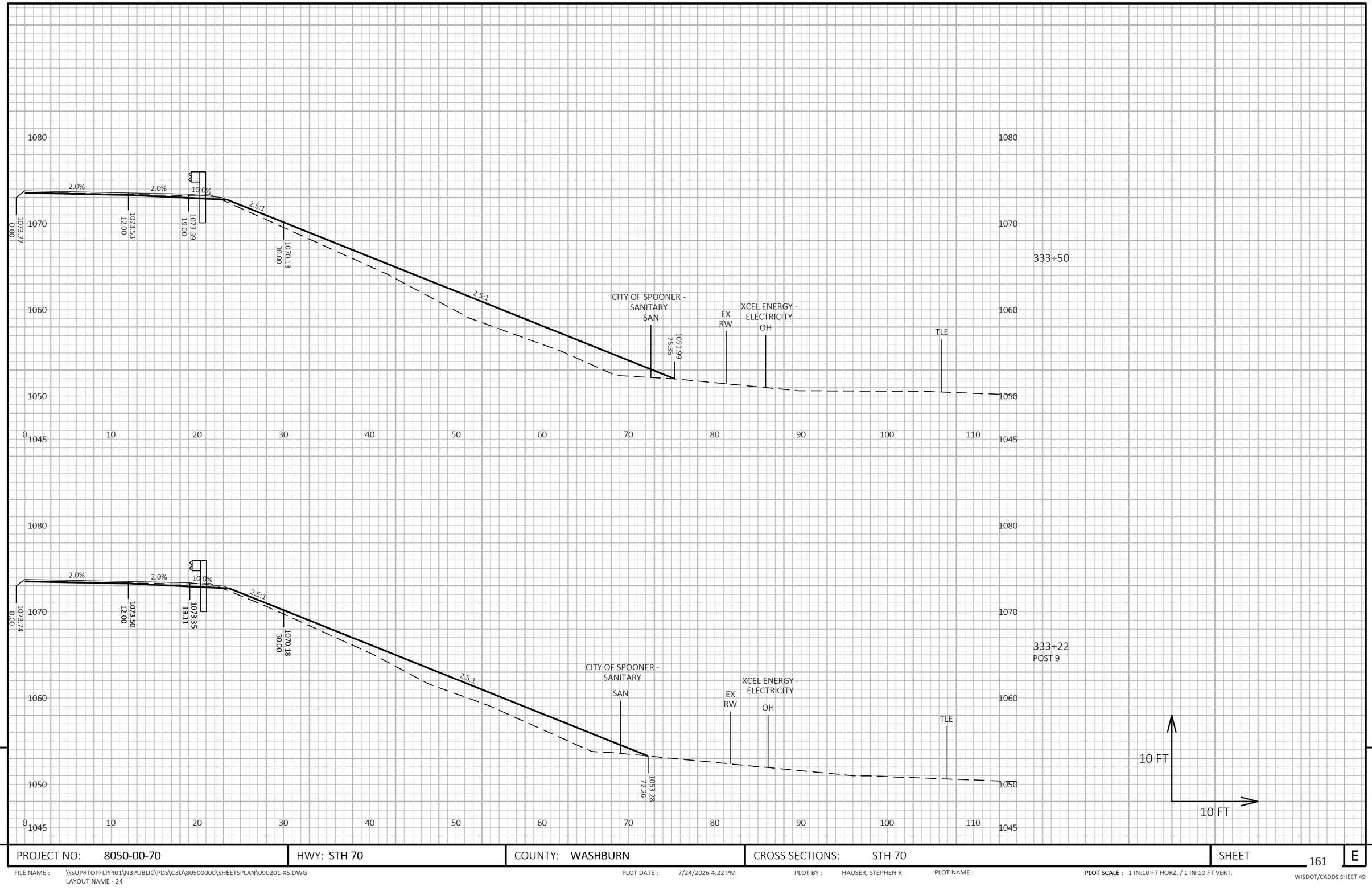
9

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 160	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 23

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

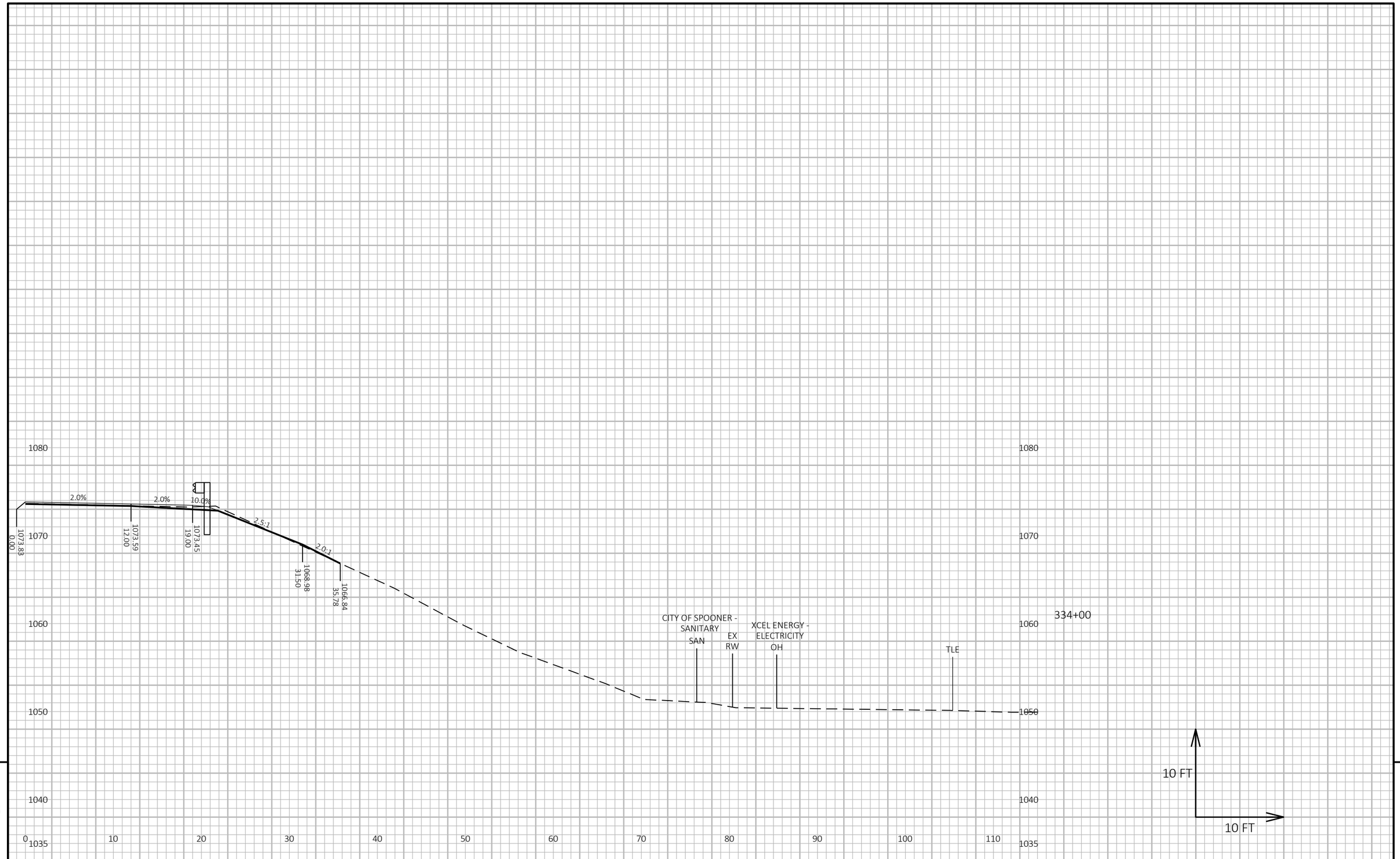
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PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 161	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 24

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



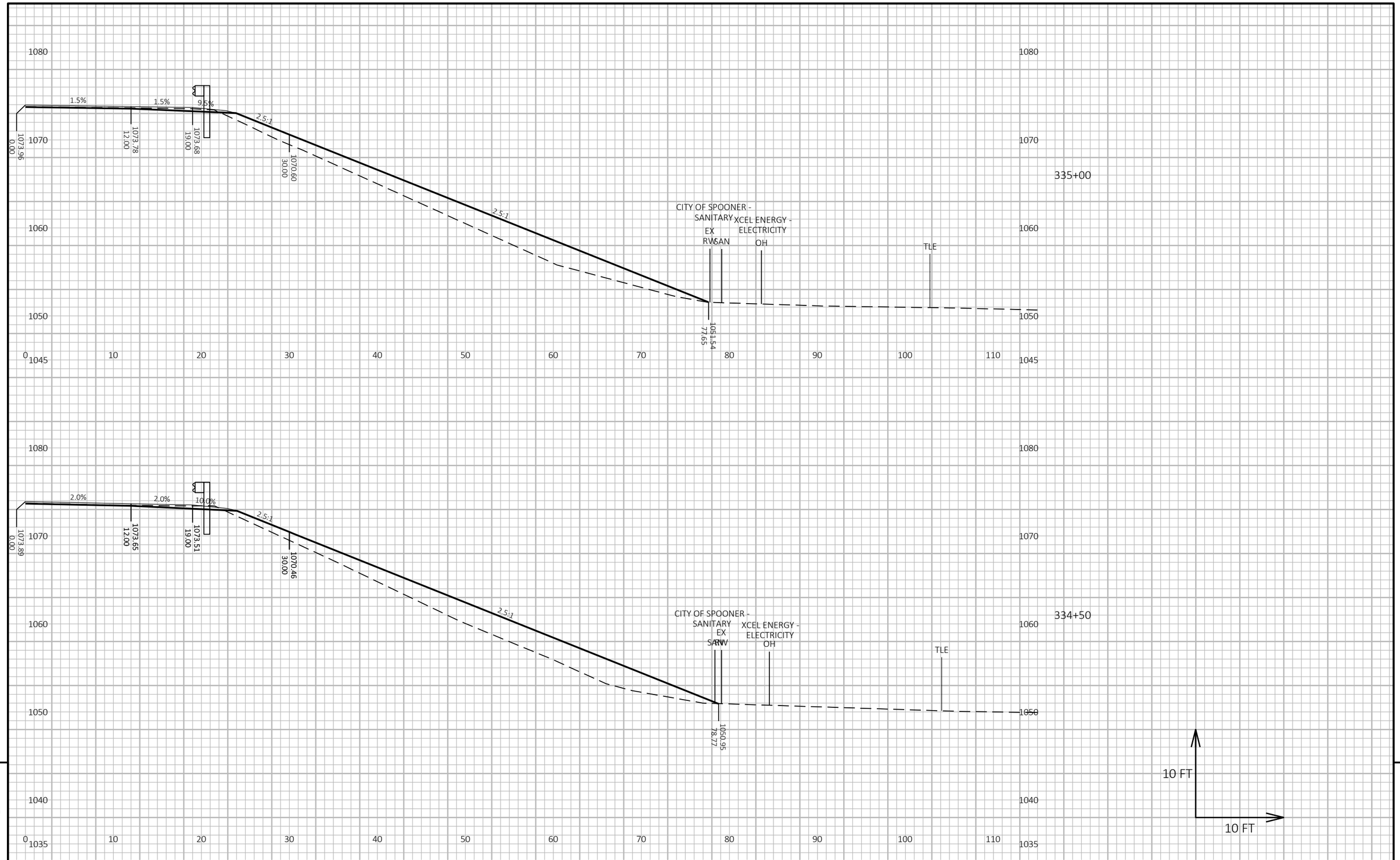
9 9

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 162	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 25

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

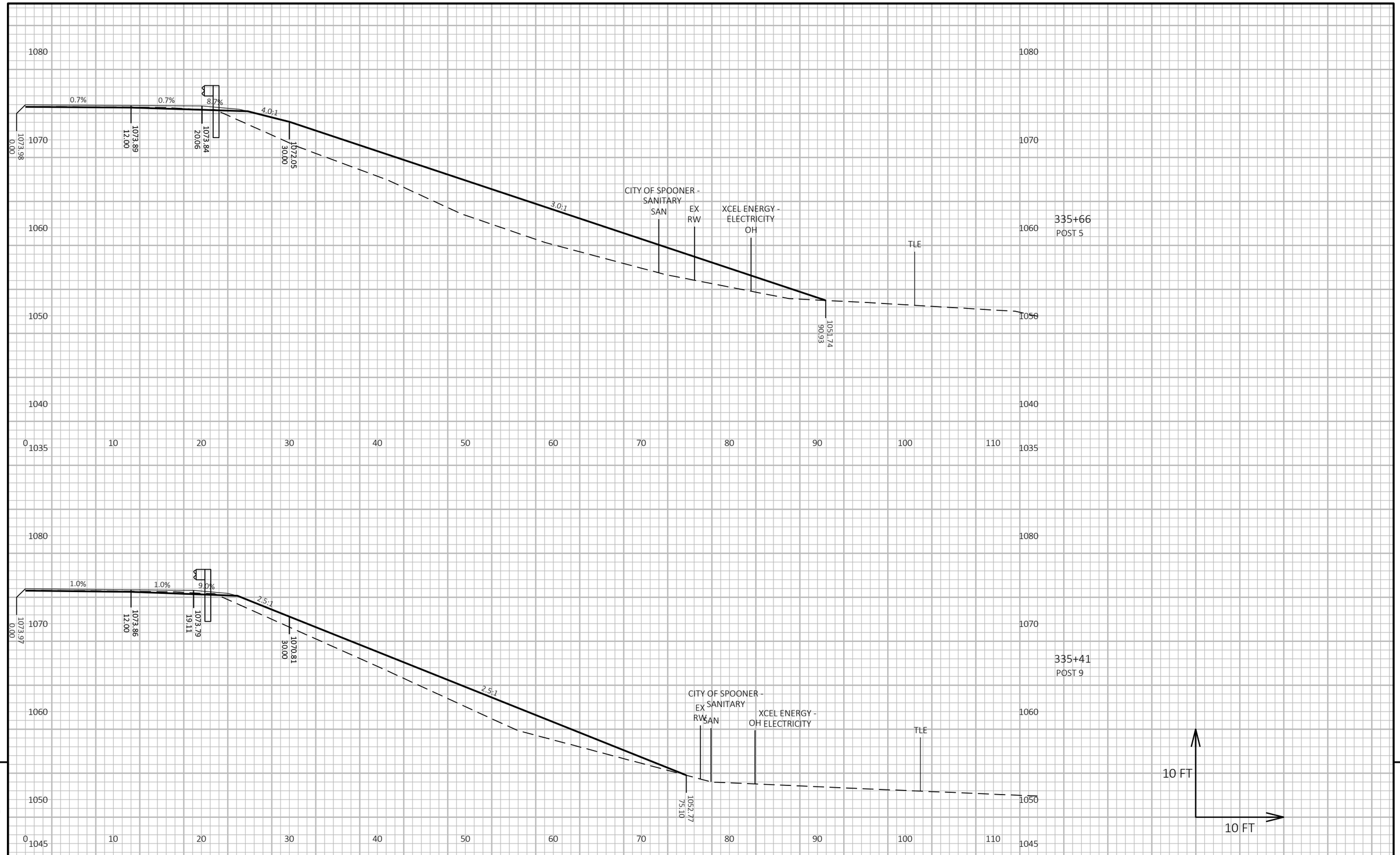


PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 163	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 26

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

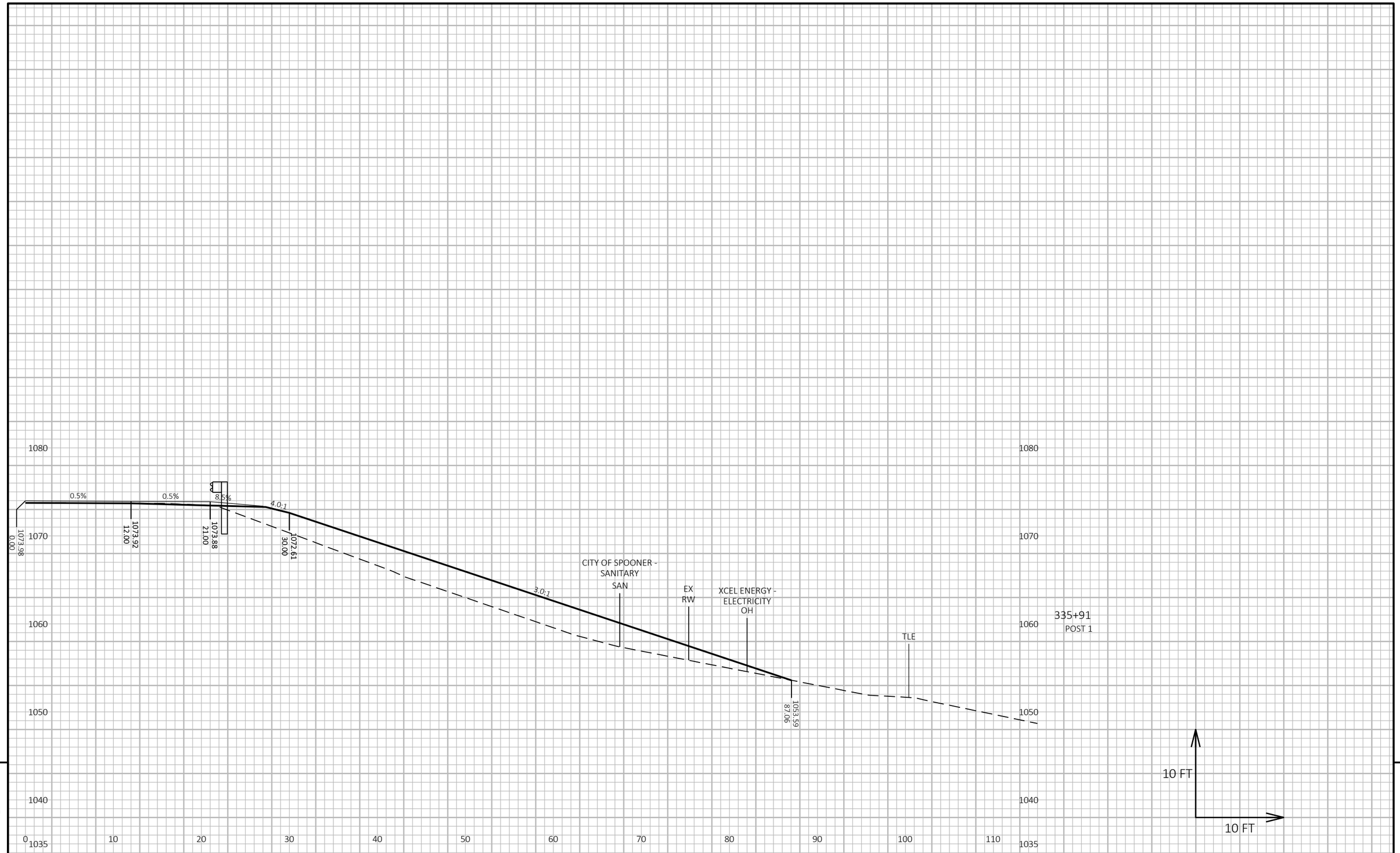
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PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 164	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 27

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

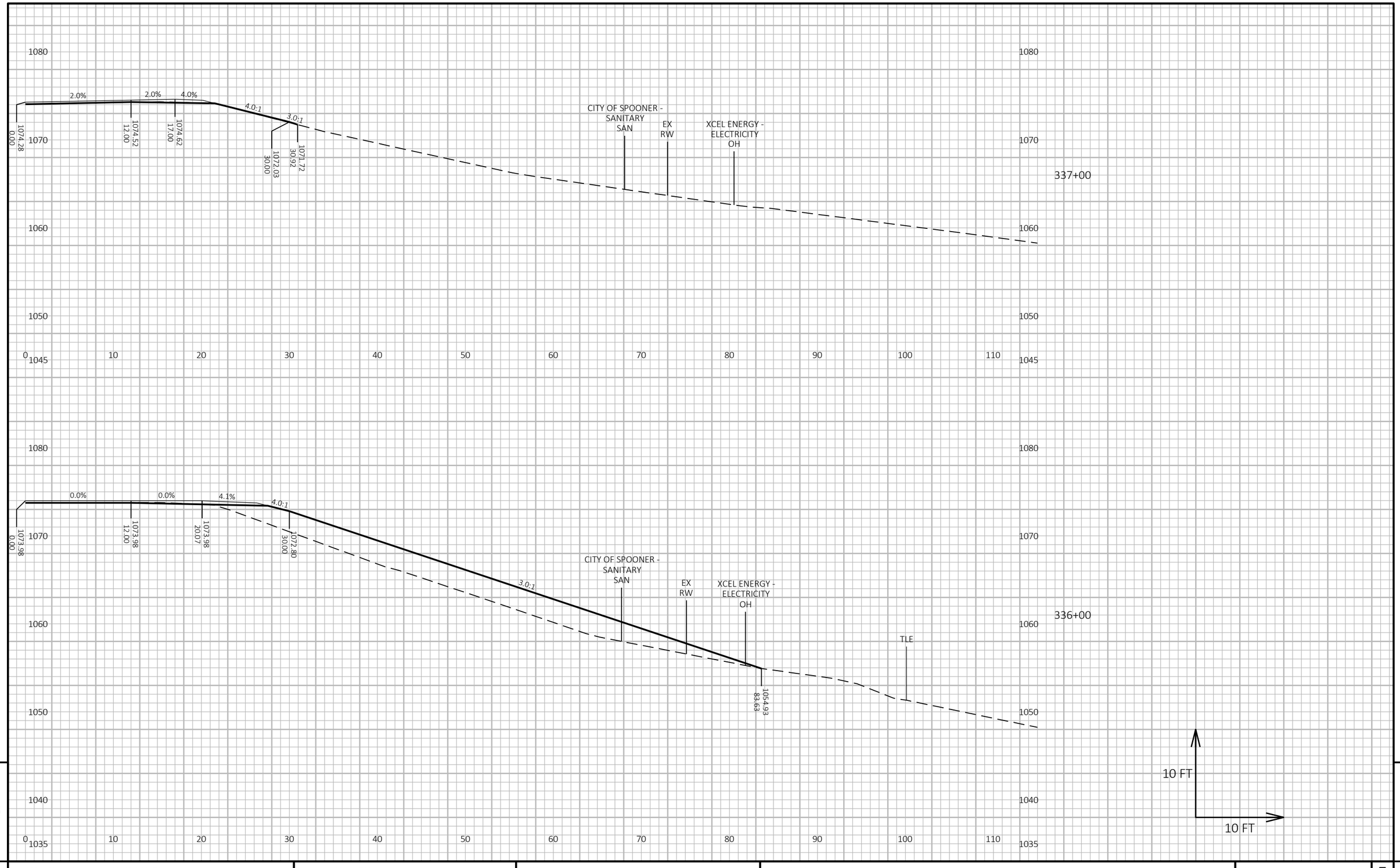
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PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 165	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 28

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

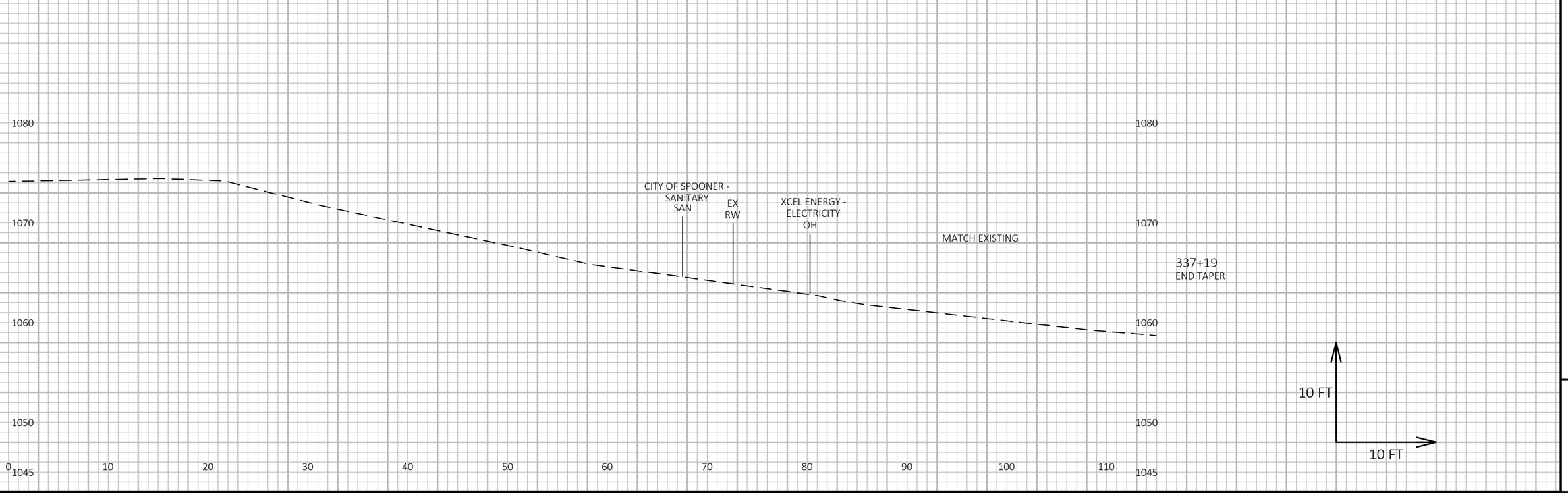
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PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 166	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 29

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

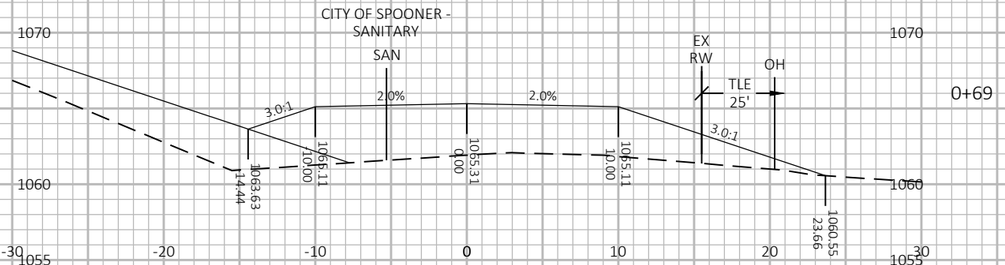
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PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: STH 70	SHEET 167	E

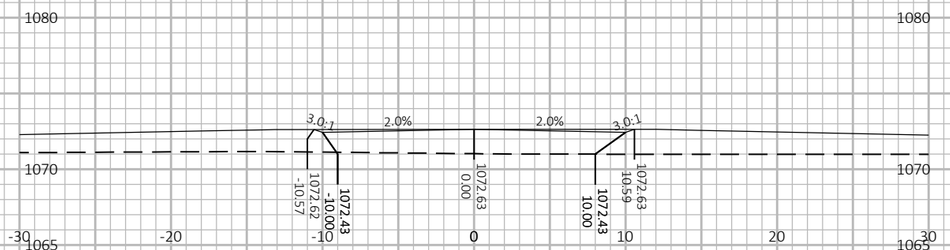
FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 30

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME :

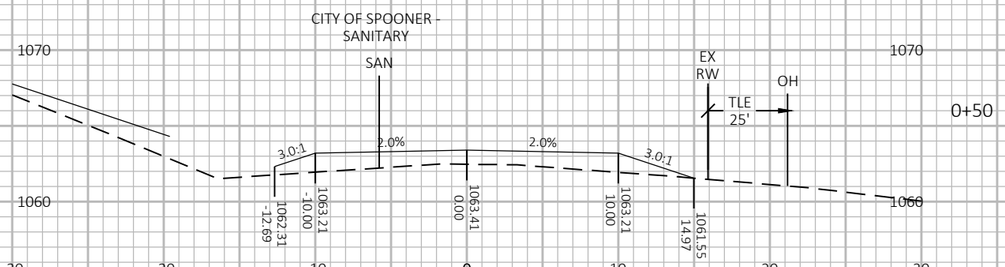
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



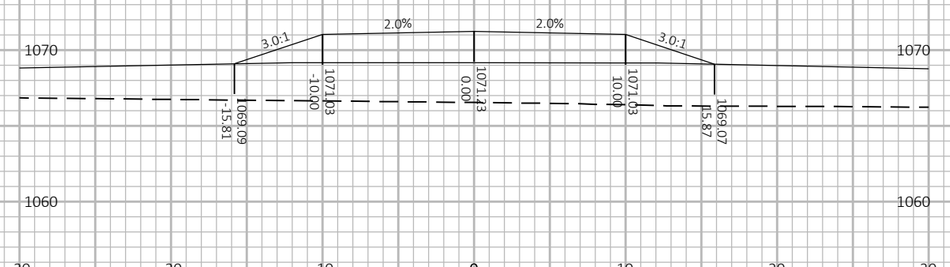
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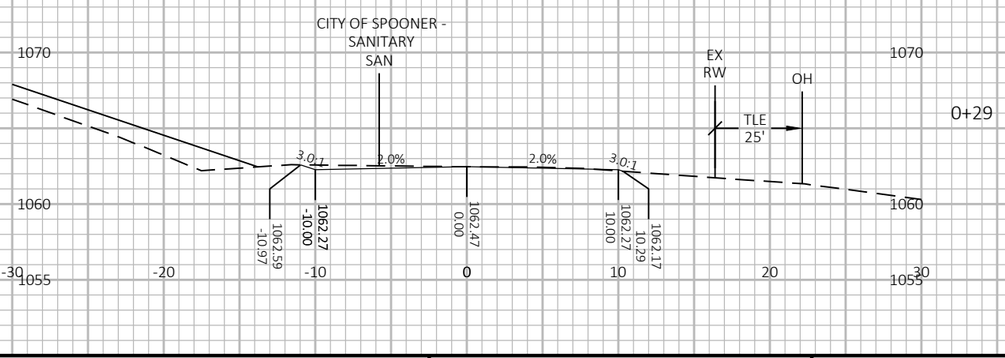
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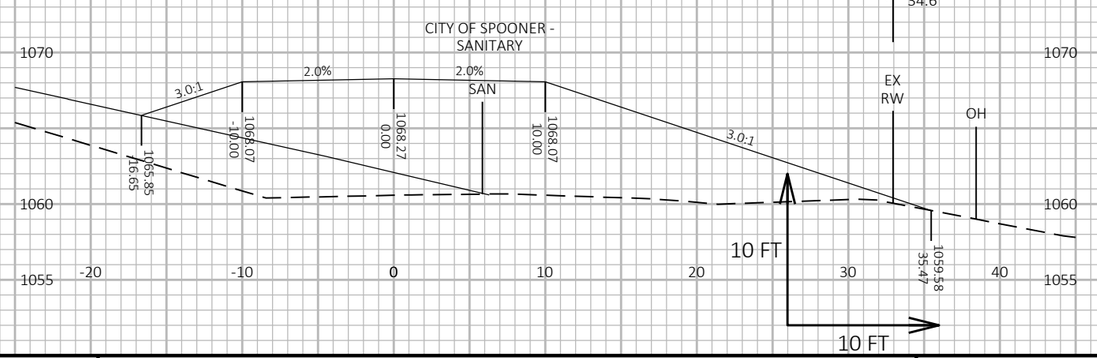
0+50



1+16



0+29



0+93

9

9

PROJECT NO: 8050-00-70	HWY: STH 70	COUNTY: WASHBURN	CROSS SECTIONS: NEW DRIVEWAY - STA. 332+60	SHEET 168	E

FILE NAME : \\SUPRTOPFLPPI01\N3PUBLIC\PDS\C3D\80500000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 31

PLOT DATE : 7/24/2026 4:22 PM PLOT BY : HAUSER, STEPHEN R PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 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