

WKE

PROJECT ID:
WITH: N/A

1410-00-73

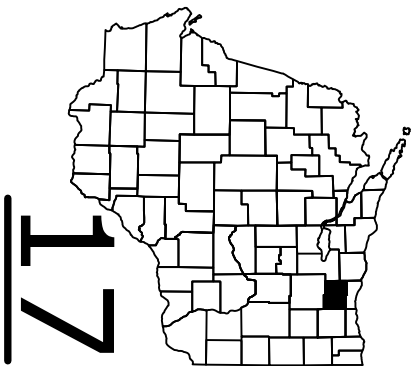
COUNTY:
WASHINGTON

JANUARY 2025

ORDER OF SHEETS

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

TOTAL SHEETS = 192



DESIGN DESIGNATION

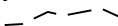
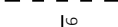
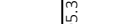
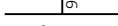
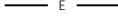
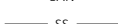
A.A.D.T.	2026	=	7,130 - 8,200
A.A.D.T.	2046	=	8,240 - 8,900
D.H.V.		=	6.3
D.D.		=	60/40
T.		=	7.5%
DESIGN SPEED		=	45.55 MPH
ESALS		=	1,300,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
<u>UTILITIES</u>	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

WEST BEND TO NEWBURG, T OF TRENTON

1/2 MI WEST OF N POPLAR RD TO CTH Y

STH 33

WASHINGTON COUNTY

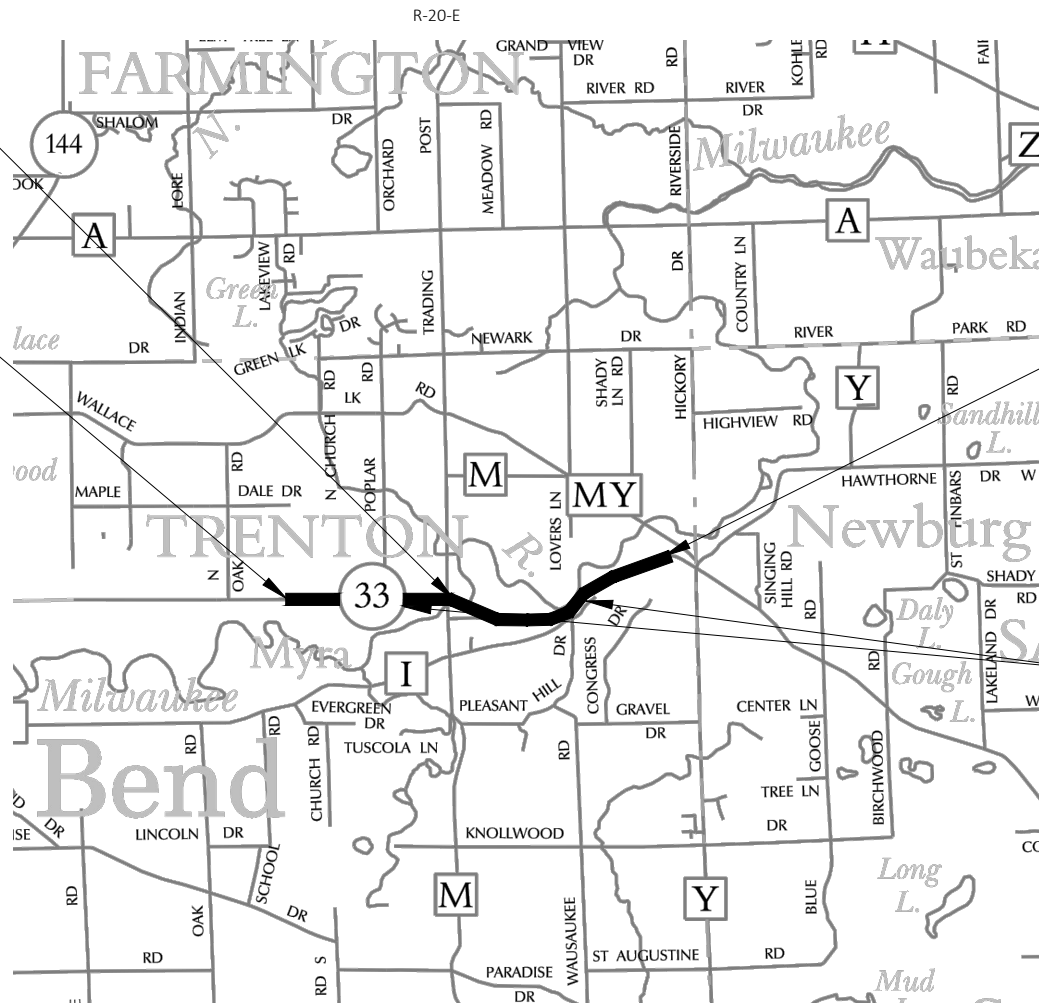
STATE PROJECT NUMBER
1410-00-73

NET EXCEPTION TO CL LENGTH
STA 262+39.67 - STA 263+85.33

BEGIN PROJECT
STA 199+80
X= 384128.65'
Y=185211.43'

END PROJECT
STA 374+00
X=400368.30
Y=185976.97

R-66-001: STA 306+49 - STA 310+52
R-66-002: STA 314+55 - STA 317+12



LAYOUT
SCALE 0 2 MILES
TOTAL NET LENGTH OF CENTERLINE = 3.271 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), WASHINGTON 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 12A.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1410-00-73	WISC 2025253	1



ORIGINAL PLANS PREPARED BY

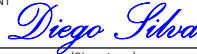


10/25/2024
(Date)

(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	_____ TOKI & ASSOCIATES, INC. _____
Designer	_____ TOKI & ASSOCIATES, INC. _____
Project Manager	_____ DIEGO SILVA, PE. _____
Regional Examiner	_____ SE REGION _____
Regional Supervisor	_____ MANOJOY NAG, PE _____

APPROVED FOR THE DEPARTMENT
DATE: 11/29/2024 
(Signature)

E

UTILITY CONTACTS

TYLER FLECK

AT&T WISCONSIN - COMMUNICATION LINE
435 SOUTH 95TH STREET
MILWAUKEE, WI 53214-1226
(414)248-6803
TF8394@att.com

LORI KETTER
PAETEC COMMUNICATIONS,
LLC COMMUNICATIONS LINE
GREEN BAY, WI 54304
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Lori.Ketter@windstream.com

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PO BOX 50
NEWBURG, WI 53060-0050
(262)689-5960
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BRADLEY ENGNATH
WE ENERGIES - GAS/PETROLEUM
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15725 W. RYERSON ROAD
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randy.cicatello@verizon.com

TIMOTHY BRYNS
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COMMUNICATION LINE
120 S. WRIGHT STREET
DELEVAN, WI 53115
(920)460-4866
timothy.bruns@tdstele.com

CHRIS DAILEY
ATC MANAGEMENT, INC. -
ELECTRICITY-TRANSMISSION
W234 N2000 RIDGEVIEW PARKWAY CT
PO BOX 47
WAUKESHA, WI 53187-0047
(262)506-6884
cdailey@atcllc.com

UTILITY CONTACTS

RYAN BIRDSALL

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MADISON, WI 53703
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ryan.birdsall@lumen.com

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NICK FRASE
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1515 W. WASHINGTON STREET
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JOSEPH FELLEENZ
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MENOMONEE FALLS, WI 53051
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OTHER CONTACTS

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PHONE: (262) 335-6881
Scott.Schmidt@co.washington.wi.us

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CHARLES SCHMIDT
PUBLIC WORKS DIRECTOR
TOWN OF TRENTON
TRENTON TOWN HALL
1071 STATE HWY 33 E
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(262)675-6009, x109
DPW@townoftrenton.wi.gov

GENERAL NOTES

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

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

UNLESS NOTED ON THE PLAN, ALL STATIONS AND OFFSETS ARE BASED OFF THE STH 33 REFERENCE LINE.

DIMENSIONS GIVEN FOR EXISTING FEATURES SHALL BE CONSIDERED AS APPROXIMATE AND MEASURED IN THE FIELD.

SAWCUT ASPHALT AND CONCRETE AT THE MATCHLINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.

WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

PLACE EROSION CONTROL DEVICES IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER. EROSION CONTROL FEATURES ARE SHOWN AT APPROXIMATE LOCATIONS, WITH EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

RESHAPING AND RESTORING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.

CONTACT THE PROJECT ENGINEER AND SCOTT SCHMIDT, WASHINGTON COUNTY SURVEYOR, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING GRADATIONS, TRAFFIC, BINDER, AND DESIGNATIONS.

REPAIR CATCH BASINS, MANHOLES, INLETS AS DIRECTED BY ENGINEER.

MILL OVERLAY TABLE			
4" HMA PAVEMENT (MAINLINE OVERLAY)			
MILLING DEPTH	LAYER	HMA OVERLAY THICKNESS	HMA TYPE
3"	LOWER LAYER	2 1/4"	3 MT 58-28 S
	UPPER LOWER	1 3/4"	4 MT 58-28 H

OTHER CONTACTS

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PROJECT MANAGER,
WISCONSIN DEPT OF TRANSPORTATION
SE REGION
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Diego.Silva@dot.wi.gov

OLAITAN OLAPO, PE
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oolapo@tokiandassociates.com

WDNR CONTACT

BENTON STELZEL
ENVIRONMENTAL ANALYSIS AND
REVIEW SPECIALIST
141 NW BARSTOW STREET,
ROOM 180
PHONE: (262) 623-0194
Benton.Stelzel@wisconsin.gov
WWW.DNR.WI.GOV

GRADING/EROSION CONTROL

TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AFTER DISTURBED AREAS ARE STABILIZED OR AT THE DIRECTION OF THE ENGINEER.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.

DISTURBED AREAS WITHIN THE RIGHT OR WAY, EXCEPT THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOOD PLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED.

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

DRAINAGE

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

CUTTING AND REMOVING DAMAGED CULVERT PIPE ENDS PRIOR TO LINING OR INSTALLING APRON ENDWALLS ARE INCIDENTAL TO THE BID ITEM FOR CULVERT PIPE LINING OR APRON ENDWALL CULVERT PIPES.

TRAFFIC CONTROL

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

NO WORK MAY BEGIN UNTIL PROPER TRAFFIC CONTROL DEVICES ARE PLACED AND APPROVED BY THE ENGINEER.

HMA PAVING

APPLY TACK COAT BETWEEN HMA PAVEMENT LAYERS.

HMA PAVEMENT QUANTITIES WERE CALCULATED USING 115 LBS/SY/INCH FOR 3 MT AND 112 LBS/SY/INCH FOR 4 MT.

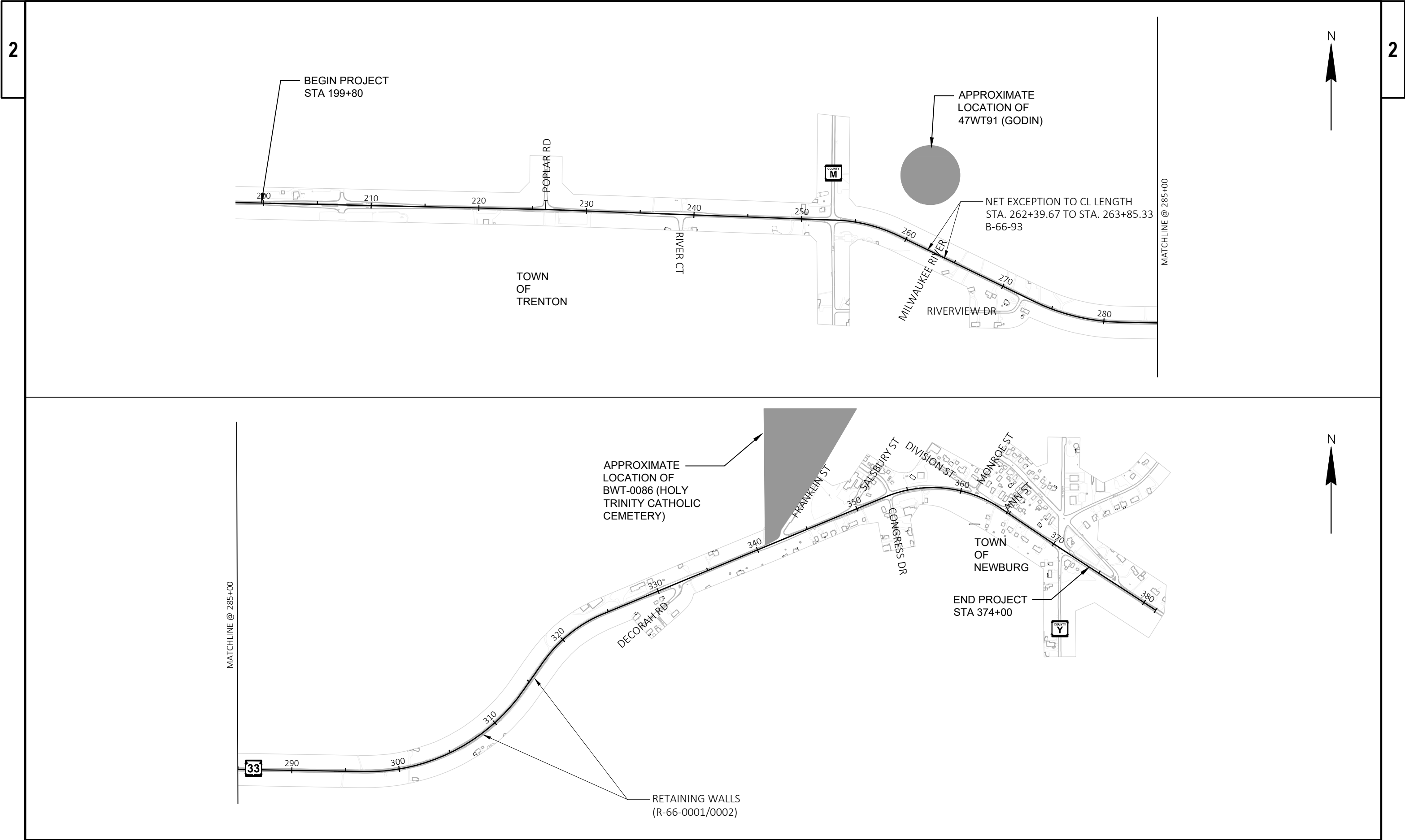
ORDER OF SHEETS - SECTION 2

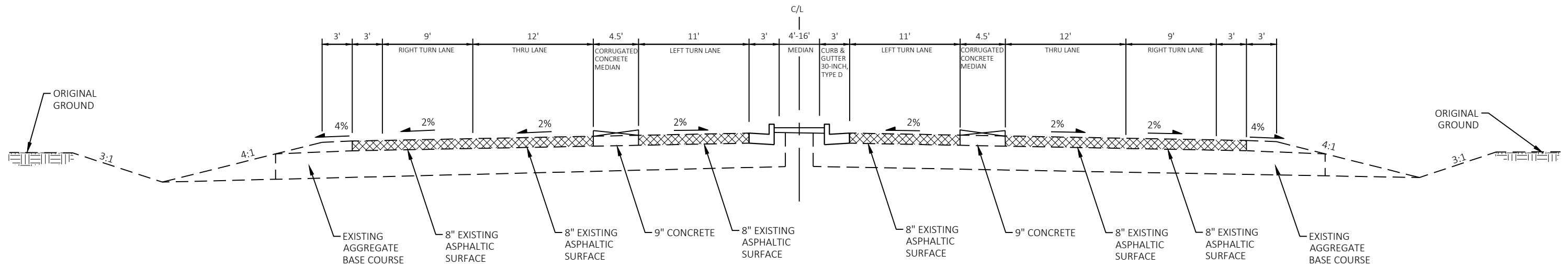
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
EXISTING/PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT



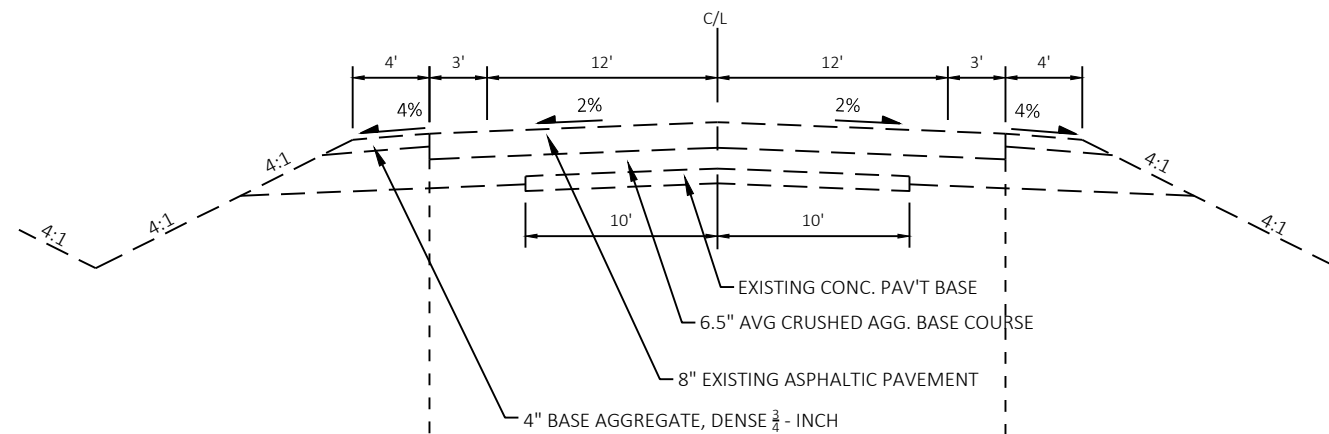
Dial 811 or (800) 242-8511

www.DiggersHotline.com





EXISTING TYPICAL SECTION
STH 33
STA. 199+80 - 215+00



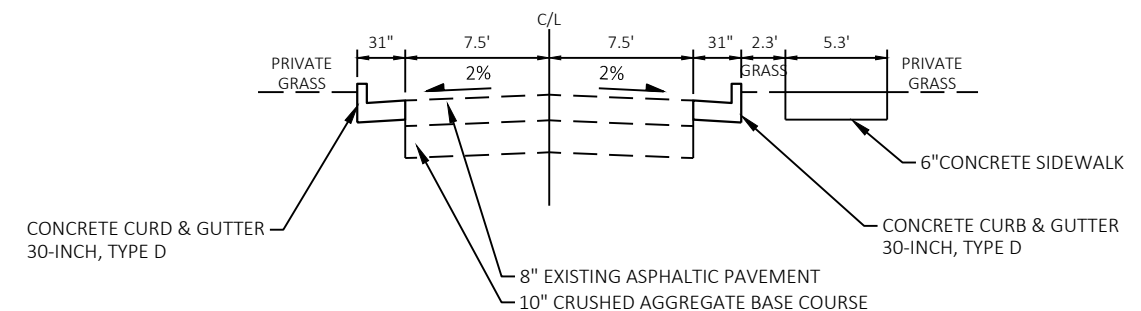
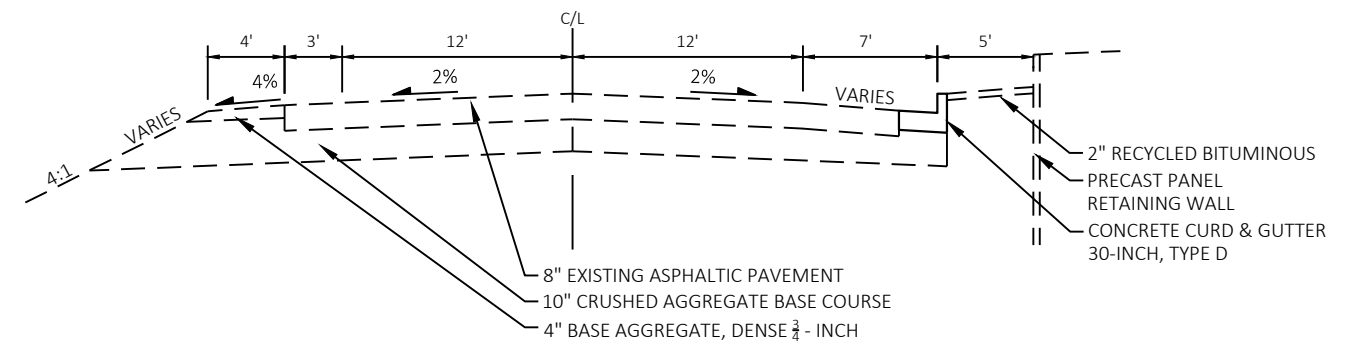
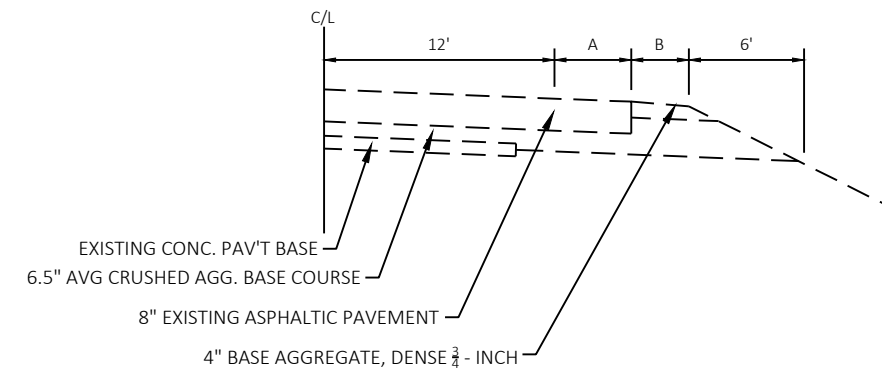
MGS GUARDRAIL 3K

MGS GUARDRAIL 3 K

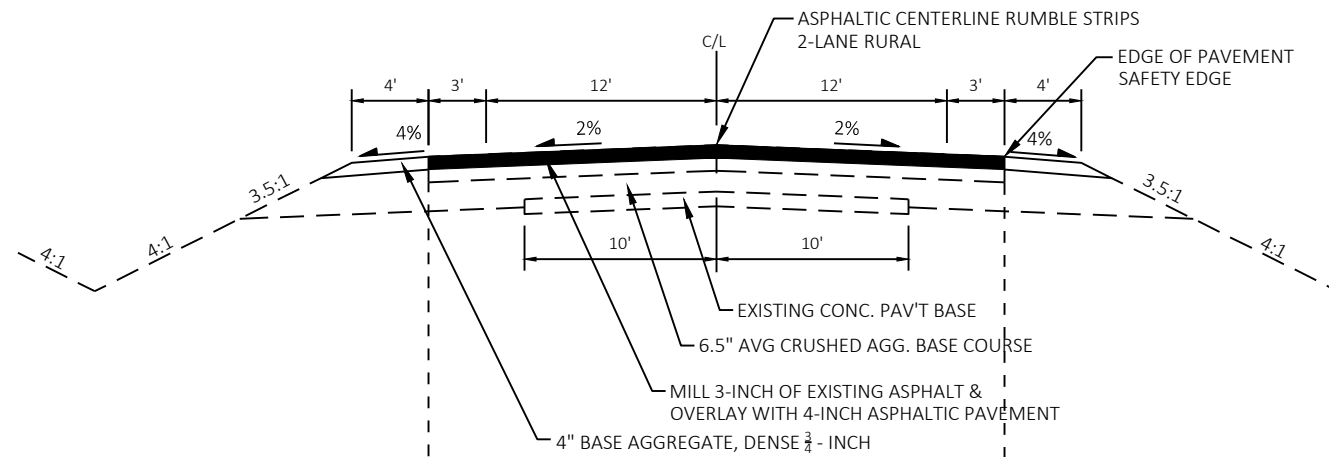
EXISTING TYPICAL SECTION
WEST
STA. 256+51 - 262+39
STA. 263+85 - 265+28
STA. 302+59 - 317+50
STA. 330+81 - 333+00

EXISTING TYPICAL SECTION
EAST
STA. 257+95 - 262+39
STA. 263+85 - 265+28
STA. 305+68 - 317+82

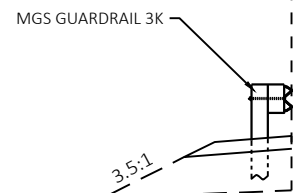
EXISTING TYPICAL SECTION
STH 33
STA. 256+51 - 262+39
STA. 263+85 - 365+28
STA. 302+59 - 317+82
STA. 330+81 - 333+00



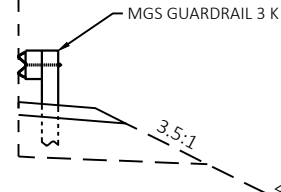
NOTE:
ANN STREET IS ONE WAY
BEARING NORTH-EAST
OFF OF STH 33.



FINISHED TYPICAL SECTION
STH 33
STA. 215+00 - 262+40
STA. 263+85 - 306+30
STA. 310+40 - 314+25
STA. 317+65 - 374+00

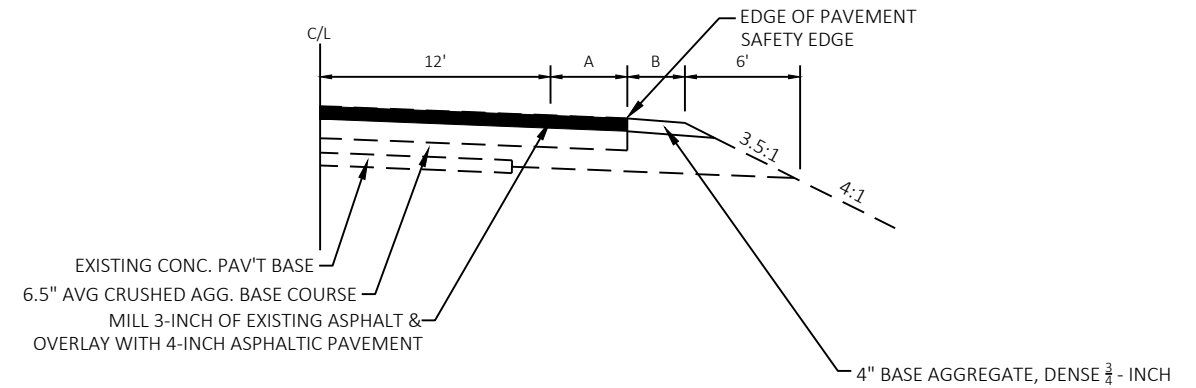


FINISHED TYPICAL SECTION
WEST
STA. 256+51 - 262+39
STA. 263+85 - 265+28
STA. 302+59 - 317+82
STA. 330+81 - 333+00

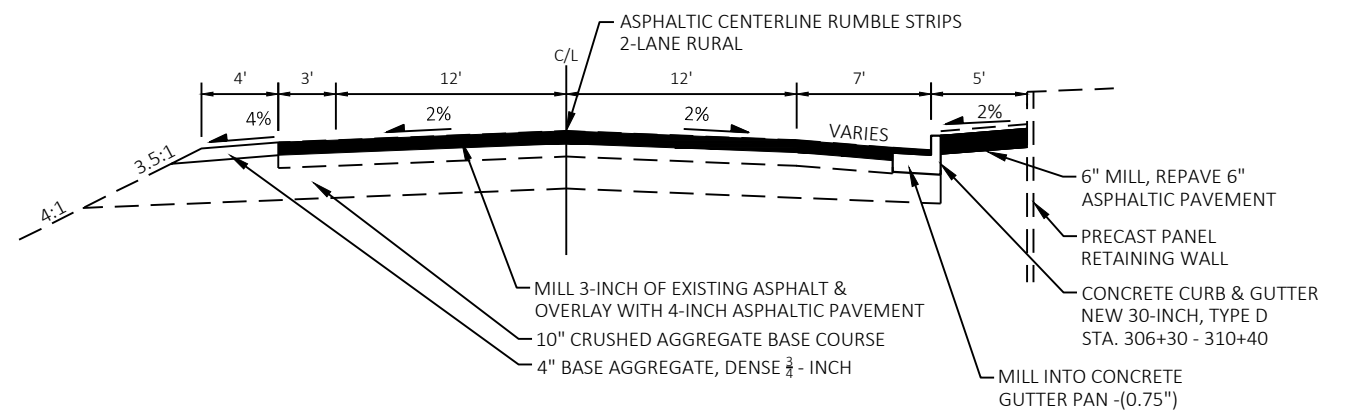


FINISHED TYPICAL SECTION
EAST
STA. 257+95 - 262+39
STA. 263+85 - 265+28
STA. 305+68 - 317+82

FINISHED TYPICAL SECTION
STH 33
STA. 256+51 - 262+39
STA. 263+85 - 365+28
STA. 302+59 - 317+82
STA. 330+81 - 333+00



FINISHED TYPICAL SECTION PASSING LANES
FRANKLIN STREET A = 10' B = 3'
SALISBURY STREET A = 10' B = 3'
CTH "I" A = 12' B = 3'
POPLAR ROAD A = 10' B = 1'



FINISHED TYPICAL SECTION
STH 33
STA. 306+30 - 310+40
STA. 314+25 - 317+65

Diagram illustrating a two-lane road construction zone. The road is divided into four main sections from left to right:

- SHLDR (Shoulder):** 7' wide, hatched area.
- DRIVING LANE:** 12' wide, hatched area.
- DRIVING LANE:** 12' wide, solid gray area.
- SHLDR (Shoulder):** 7' wide, solid gray area.

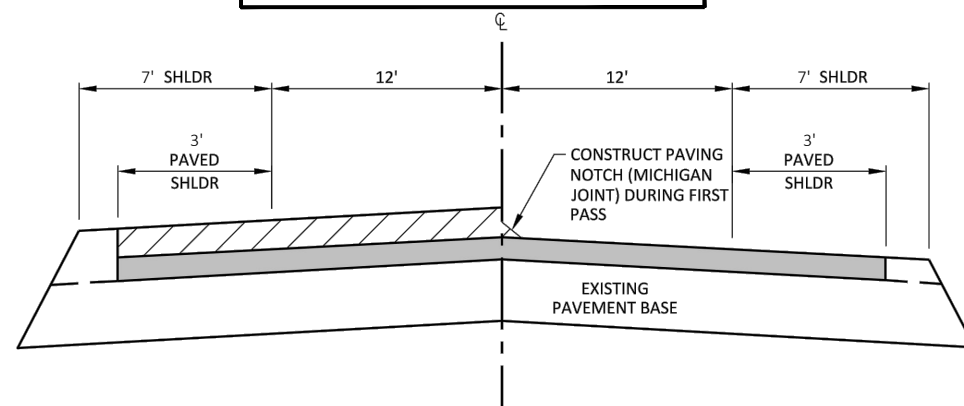
Additional details:

- A **PAVED SHLDR** of 3' is indicated within the 7' shoulder sections.
- A centerline symbol (C) is shown at the top center.
- Temporary markings (centerlines, edgelines, lane lines, and channelizing lines) are shown as thin lines within the driving lanes.
- Arrows indicate traffic flow: a downward arrow in the left driving lane and an upward arrow in the right driving lane.
- A note at the top right states: "THE TEMPORARY CENTERLINES, EDGELINES AND LANE LINES 6 INCHES, AND THE TEMPORARY CHANNELIZING LINES 10 INCHES MATCH EXISTING CENTERLINE CONDITIONS)".

EXISTING ASPHALTIC SURFACE
TO REMAIN (MILLED SURFACE)

FIRST PASS 2.25\" S HMA PAVEMENT
3 MT 58-28 S PAVING LIMITS

NOTE:
PLACE TEMPORARY MARKING LINE PAINT. THE TEMPORARY
CENTERLINES, EDGLINES AND LANE LINES 6 INCHES, AND
THE TEMPORARY CHANNELIZING LINES 10 INCHES. (SEE
STANDARD DETAIL DRAWING LONGITUDINAL MARKING
(MAINLINE) AND PAVEMENT MARKING (INTERSECTIONS) FOR
PAVEMENT MARKING LAYOUT)



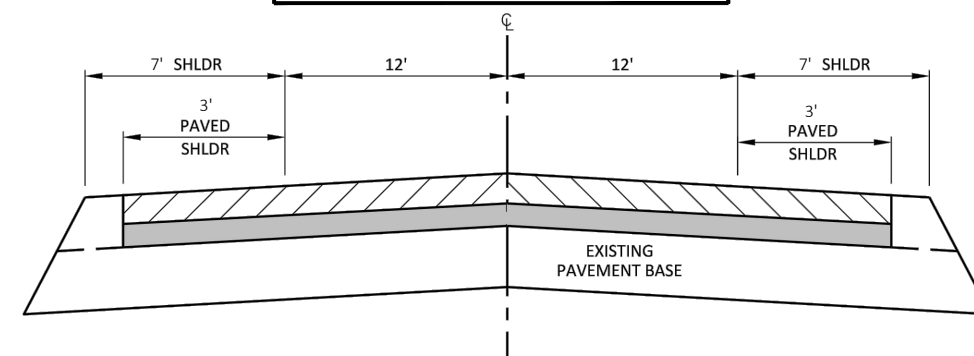
FIRST PASS DETAIL

A cross-sectional diagram of a two-lane road. The central section consists of two 12' driving lanes separated by a dashed centerline. On either side of the driving lanes are 7' shoulders. Further out, there are 3' paved shoulders. The entire road section is flanked by hatched areas representing embankments or fields. A vertical line with an arrow pointing up is labeled 'C' at the top, indicating the centerline. Two large black arrows point towards the centerline from the bottom, one on each side, indicating traffic flow.

**FIRST PASS 2.25" HMA PAVEMENT
3 MT 58-28 S PAVING LIMITS**

**SECOND PASS 1.75" HMA PAVEMENT
4 MT 58-28H PAVING LIMITS**

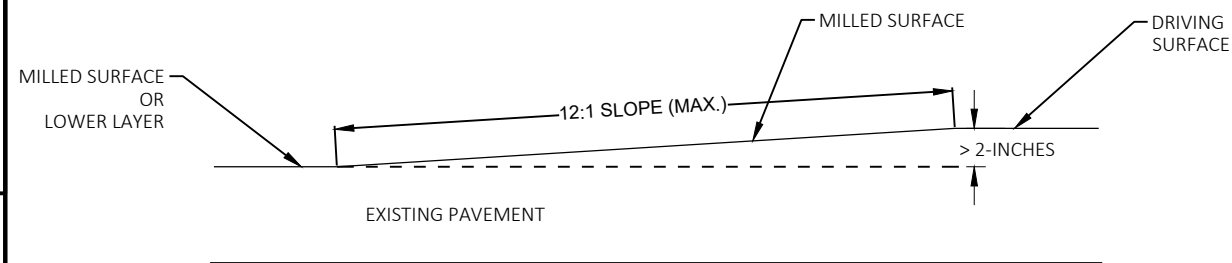
NOTE:
LOCATING ON PASSING ZONES REQUIRED PRIOR TO
PLACEMENT OF TEMPORARY MARKING LINE EPOXY
CENTERLINES, EDGELINES AND LANE LINES 6 INCHES. THE
CHANNELIZING LINE 10 INCHES. PLACE ASPHALTIC
CENTERLINE RUMBLE STRIPS 2-LANE RURAL. PLACE
MARKING LINE SAME DAY. THE CENTERLINES, EDGELINES
AND LANE LINES 6 MCHES, AND THE TEMPORARY
CHANNELIZING LINES 10 INCHES. (SEE STANDARD DETAIL
DRAWING LONGITUDINAL MARKING (MAINLINE) AND
PAVEMENT MARKING (INTERSECTIONS) FOR PAVEMENT
MARKING LAYOUT)



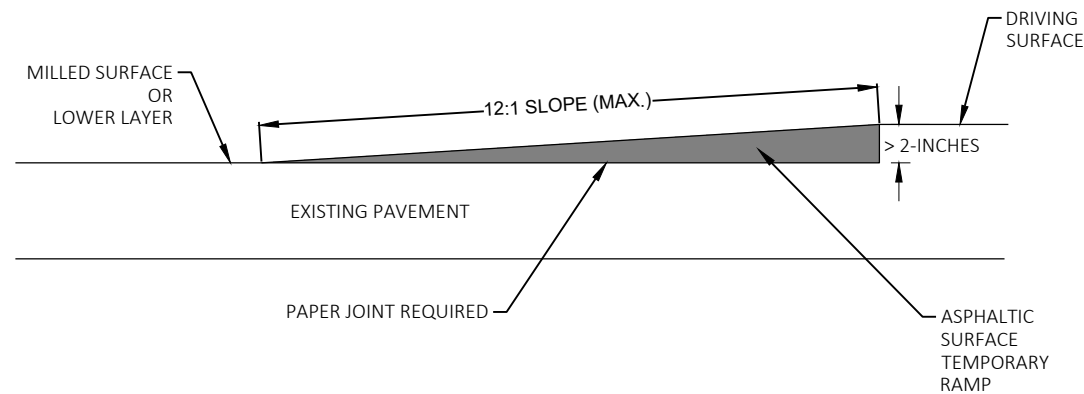
SECOND PASS DETAIL

8

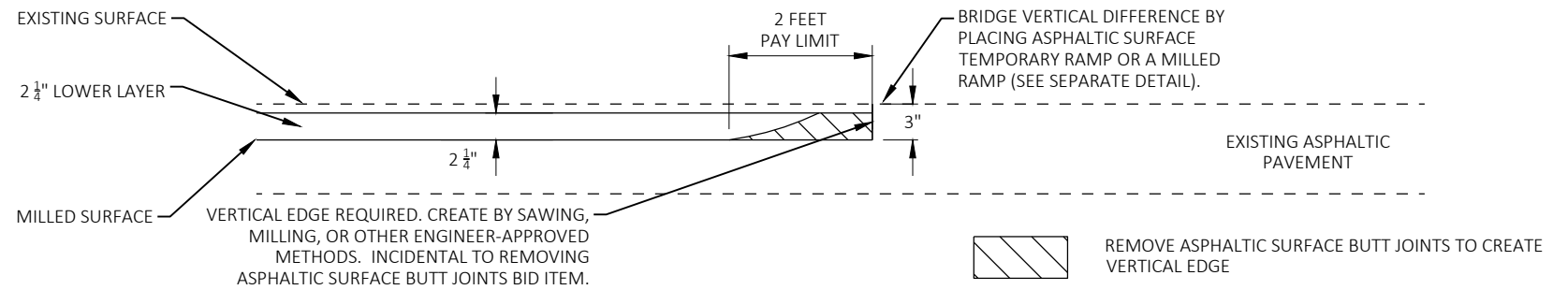
WISDOT/CADDS SHEET 42



MILLED RAMP



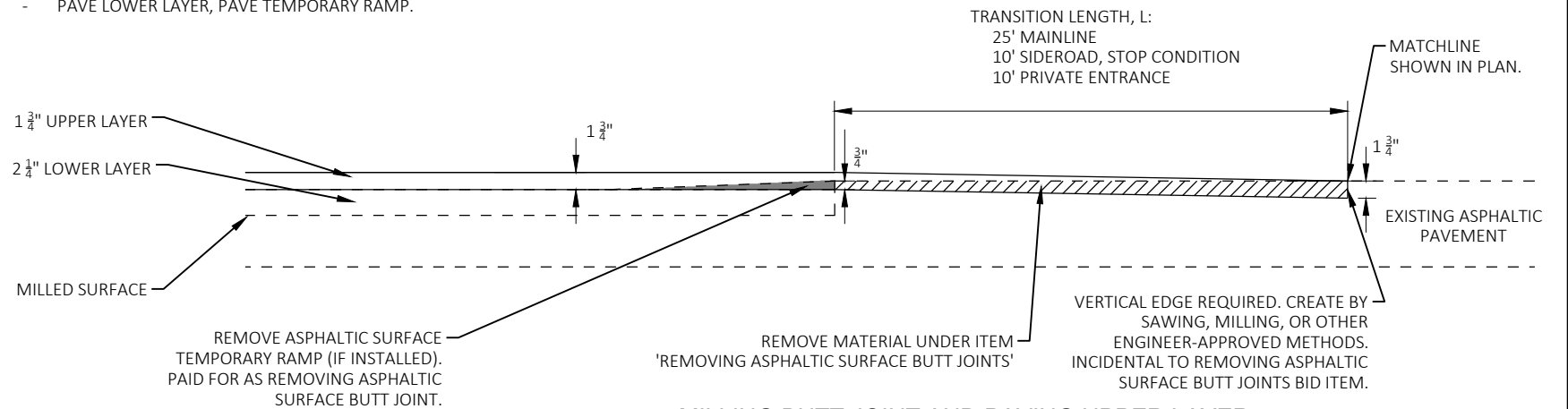
ASPHALTIC SURFACE TEMPORARY RAMP



MILLING AND PAVING LOWER LAYER

OPERATIONS

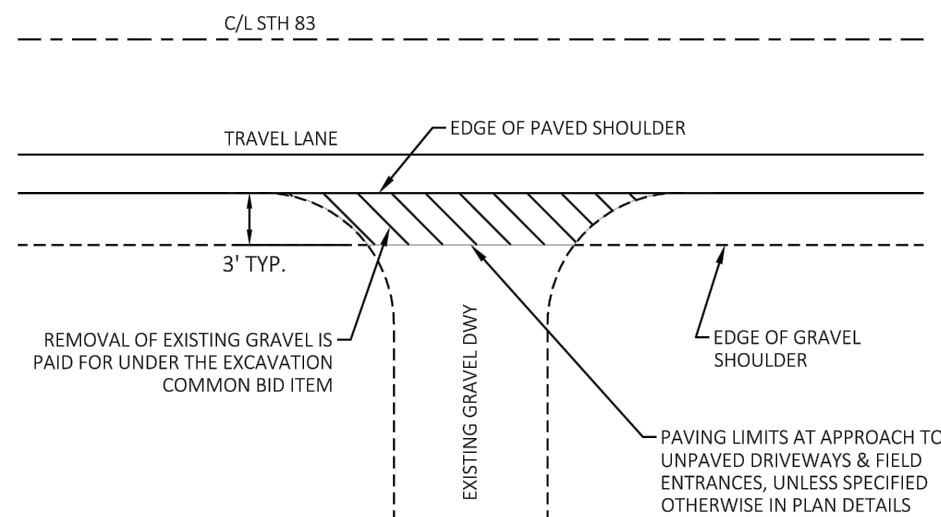
- REMOVING ASPHALTIC SURFACE MILLING 3-INCHES AND REMOVING ASPHALTIC SURFACE BUTT JOINT.
- PAVE LOWER LAYER, PAVE TEMPORARY RAMP.



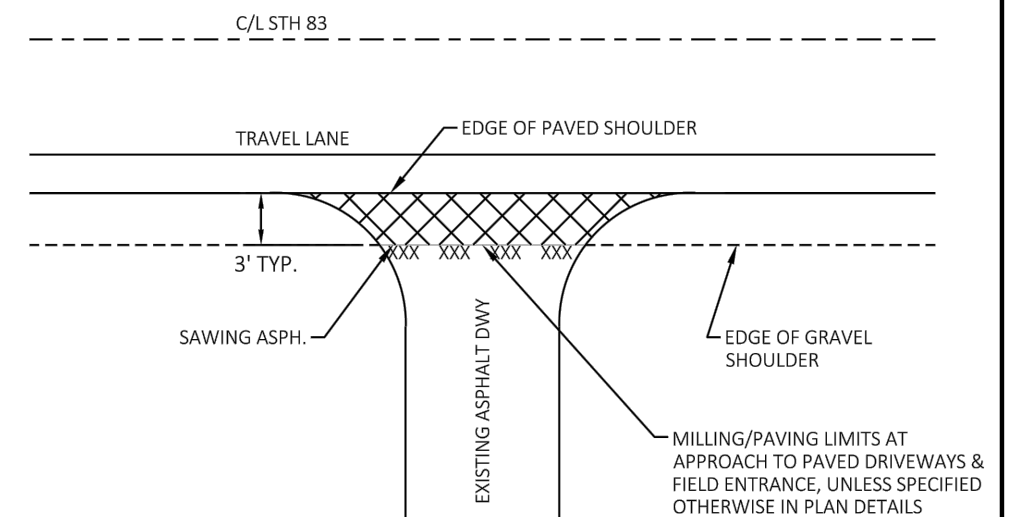
MILLING BUTT JOINT AND PAVING UPPER LAYER

OPERATIONS

- REMOVING ASPHALTIC SURFACE BUTT JOINT, REMOVE TEMPORARY RAMP.
- PAVE UPPER LAYER.

BUTT JOINT - CHANGE IN PROFILE (MILL 3", PAVE 4")

PLAN VIEW

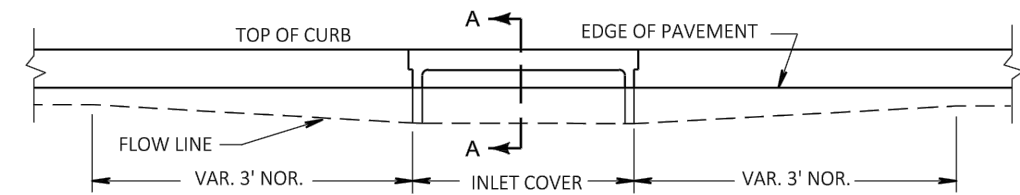


PLAN VIEW

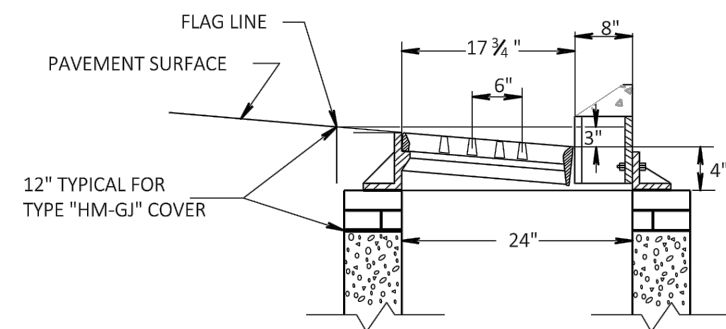
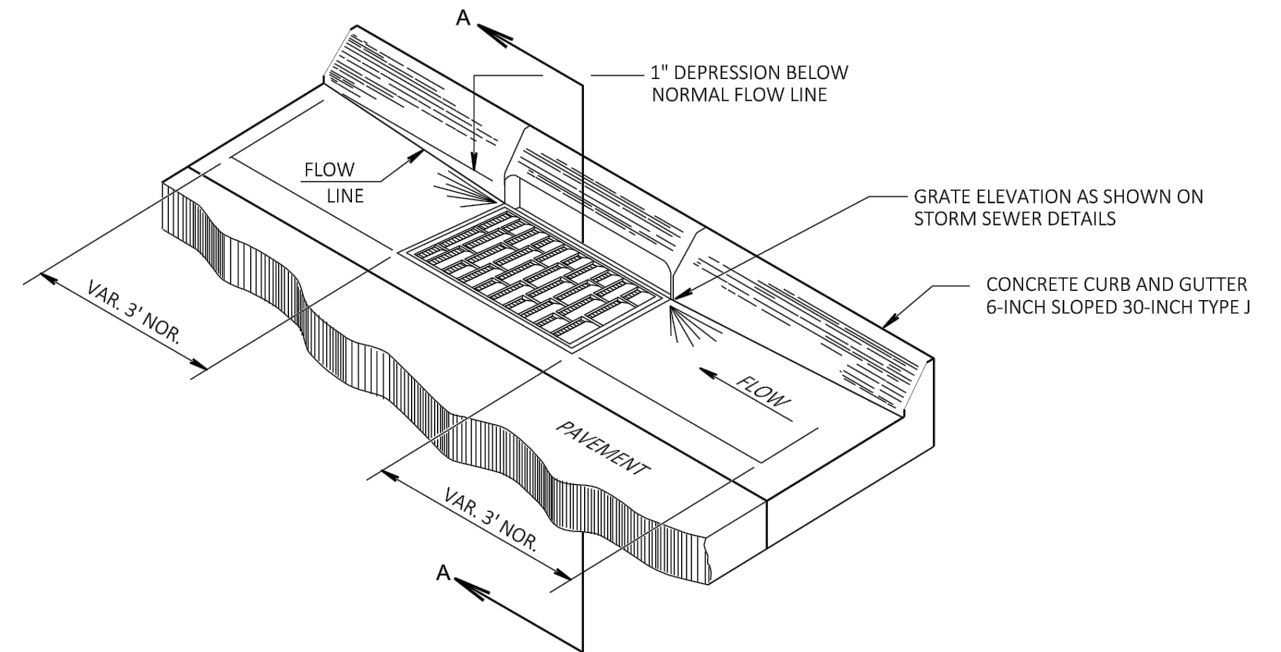
- 2" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- REMOVING ASPHALTIC SURFACE MILLING
- 2" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

RURAL DRIVEWAY DETAIL

SEE PLAN DETAILS FOR LOCATIONS



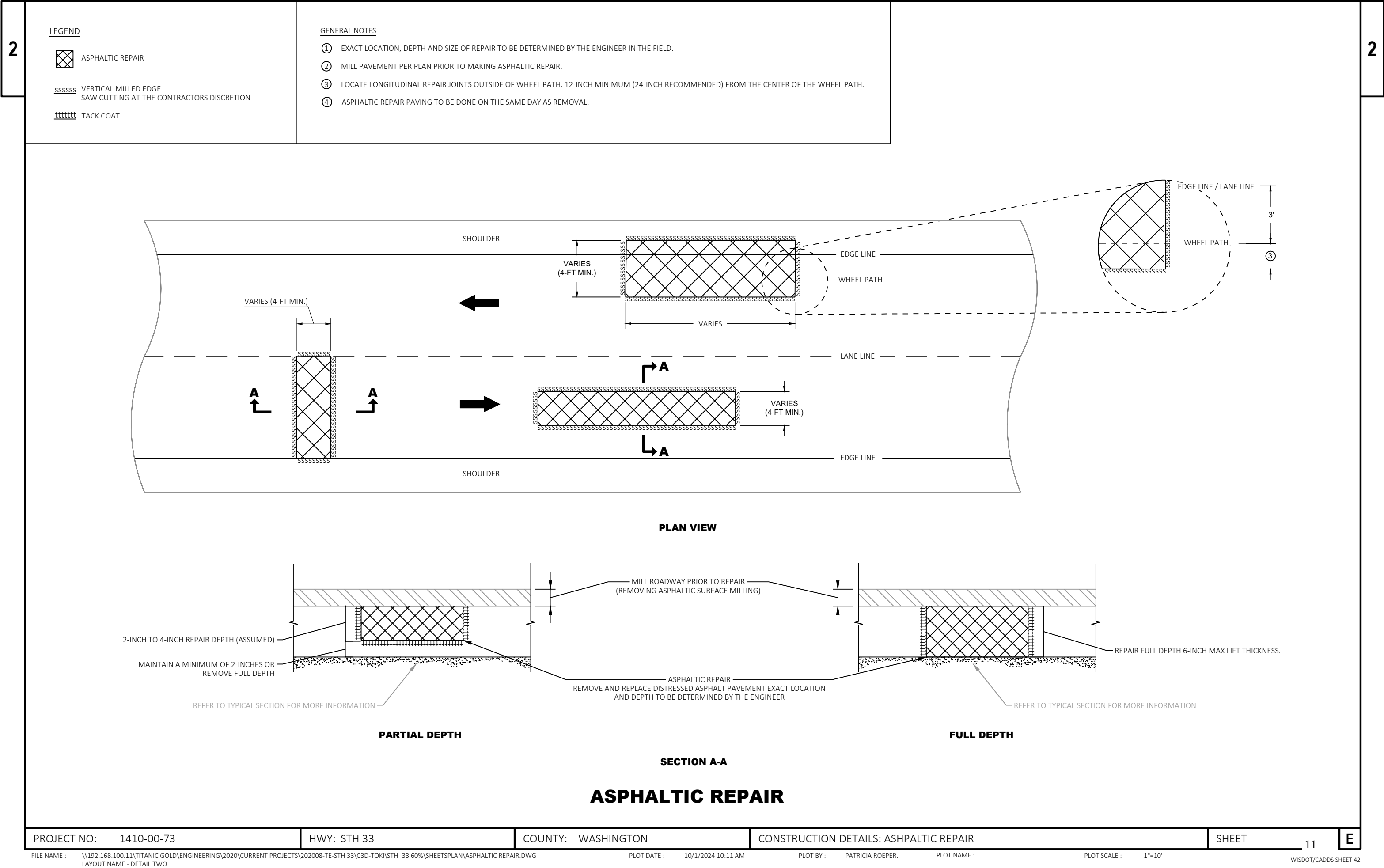
ELEVATION



SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

(INLETS 2x3, HM-GJ SHOWN)



REMOVING CURB AND GUTTER AND PAVEMENT TO THE LIMITS SHOWN, EXCAVATING, PREPARING THE FOUNDATION AND SHIMMING ARE INCIDENTAL TO THE ADJUSTING OR RECONSTRUCTING BID ITEMS.

THE DEPARTMENT WILL PAY SEPARATELY FOR SAWING CONCRETE, CONCRETE CURB & GUTTER AND DRILLED TIE BARS.

MONOLITHIC SHIM CONCRETE, CONCRETE PLACEMENT AND FINISHING IS INCIDENTAL TO THE CONCRETE CURB & GUTTER BID ITEM.

PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

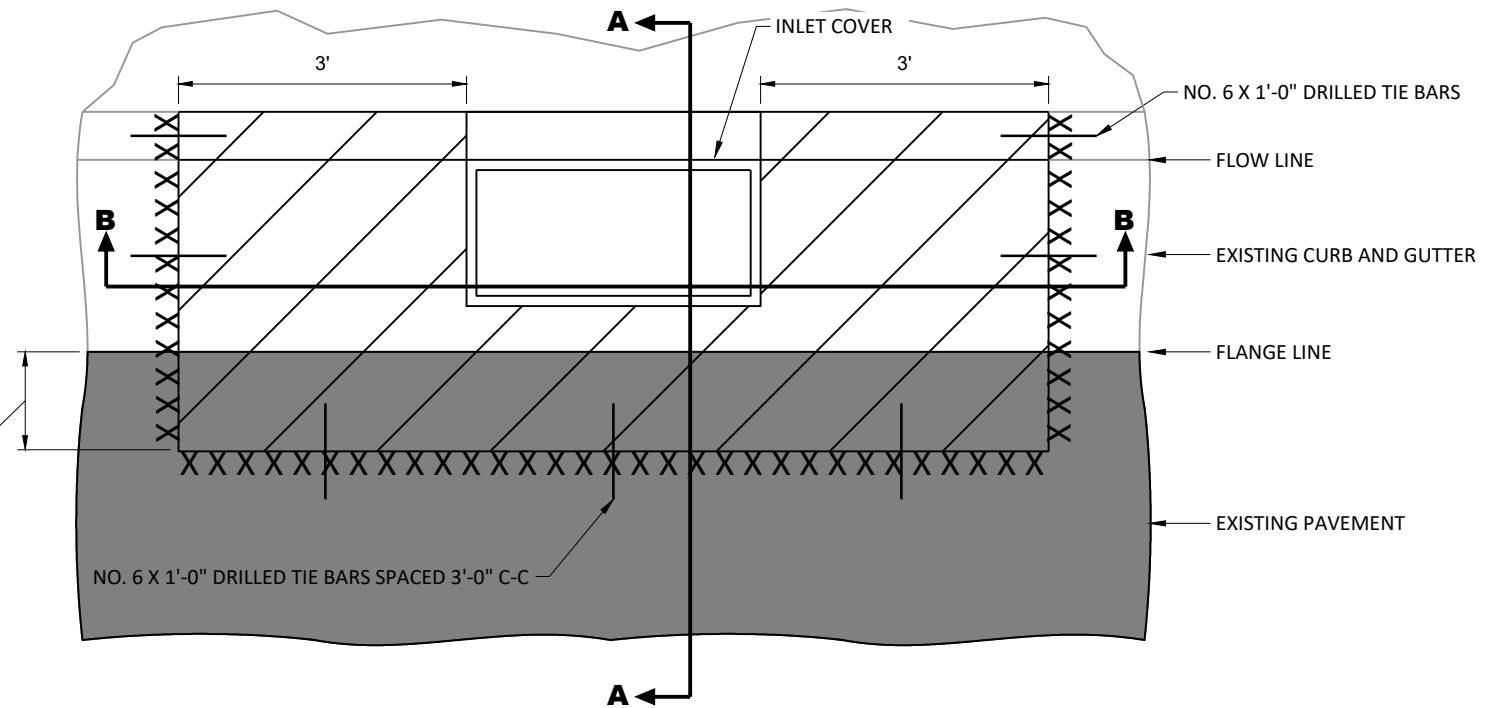
REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

XXX SAWING CONCRETE

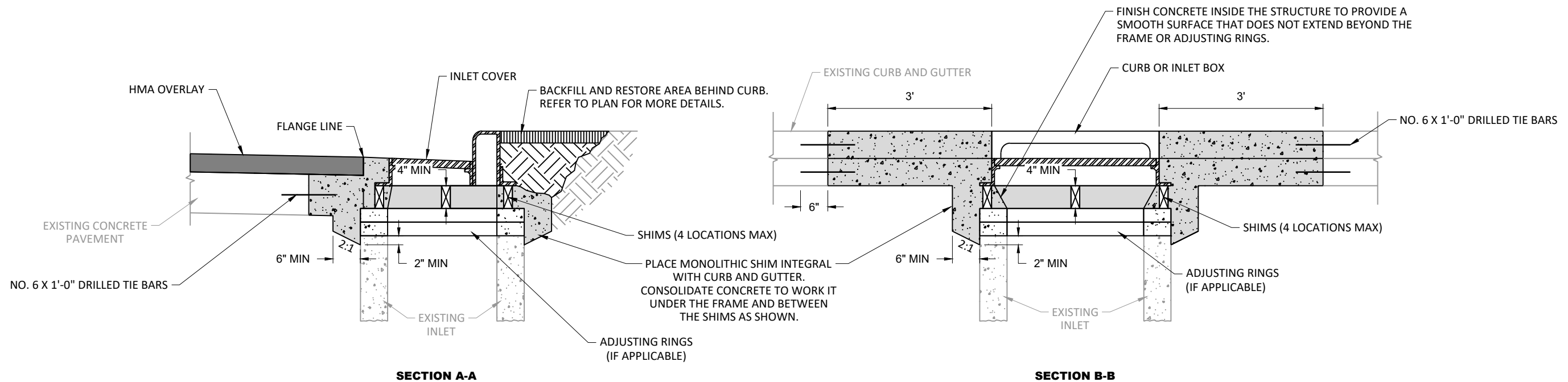
REMOVING CURB & GUTTER AND PAVEMENT

MONOLITHIC CONCRETE

1-FT OR AS DIRECTED
BY THE ENGINEER



PLAN VIEW



ADJUSTING / RECONSTRUCTING CATCH BASINS & INLETS - MONOLITHIC SHIM

PRIOR TO MILLING AND PAVING.

- A. SAWCUT EXISTING PAVEMENT FULL DEPTH.
- B. REMOVE AND STORE MANHOLE COVER.
- C. FURNISH AND INSTALL TEMPORARY COVER PLATE.
- D. BACKFILL USING ASPHALT SURFACE PATCHING.

AFTER PAVING HMA LOWER LAYER(S)

- A. REMOVE ASPHALTIC SURFACE PATCHING.
- B. EXCAVATE AROUND MANHOLE.
- C. ADJUST OR RECONSTRUCT MANHOLE AND RE-INSTALL MANHOLE FRAME AND COVER.
- D. POUR MONOLITHIC CONCRETE SHIM SO CONCRETE FILLS IN VOIDS BELOW THE CASTING BETWEEN THE SHIMS.
- E. PAVE UPPER LAYER HMA.

PAVEMENT REMOVAL IS INCIDENTAL TO THE ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES BID ITEMS.

ALL WORK, EQUIPMENT AND MATERIAL REQUIRED TO EXCAVATE, PREPARE THE FOUNDATION AND INSTALL THE SHIMS IS INCIDENTAL TO THE ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES BID ITEMS.

ALL WORK, EQUIPMENT AND MATERIAL REQUIRED TO INSTALL THE MONOLITHIC SHIM IS INCIDENTAL TO THE BASE PATCHING CONCRETE SHES BID ITEMS.

PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

THE DEPARTMENT WILL PAY SEPARATELY FOR SAWING CONCRETE, COVER PLATES TEMPORARY, ASPHALTIC SURFACE PATCHING AND DRILLED TIE BARS.

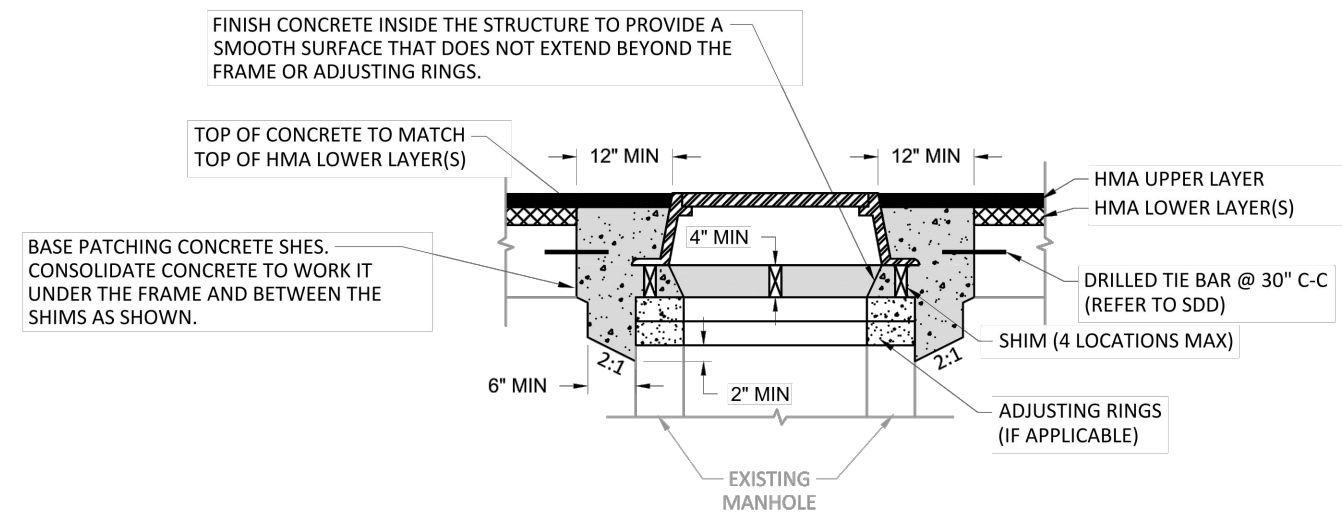
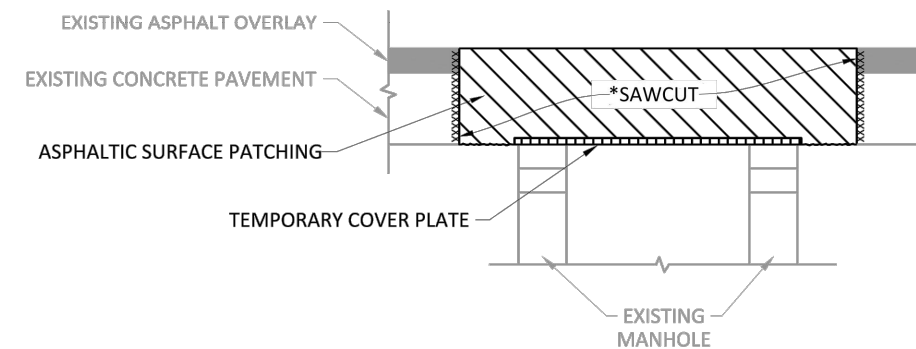
REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

*SAWCUT WILL ONLY BE PAID ONCE. REMOVE ASPHALT SURFACE PATCHING MATERIAL TO THE ORIGINAL SAWCUT LIMITS.

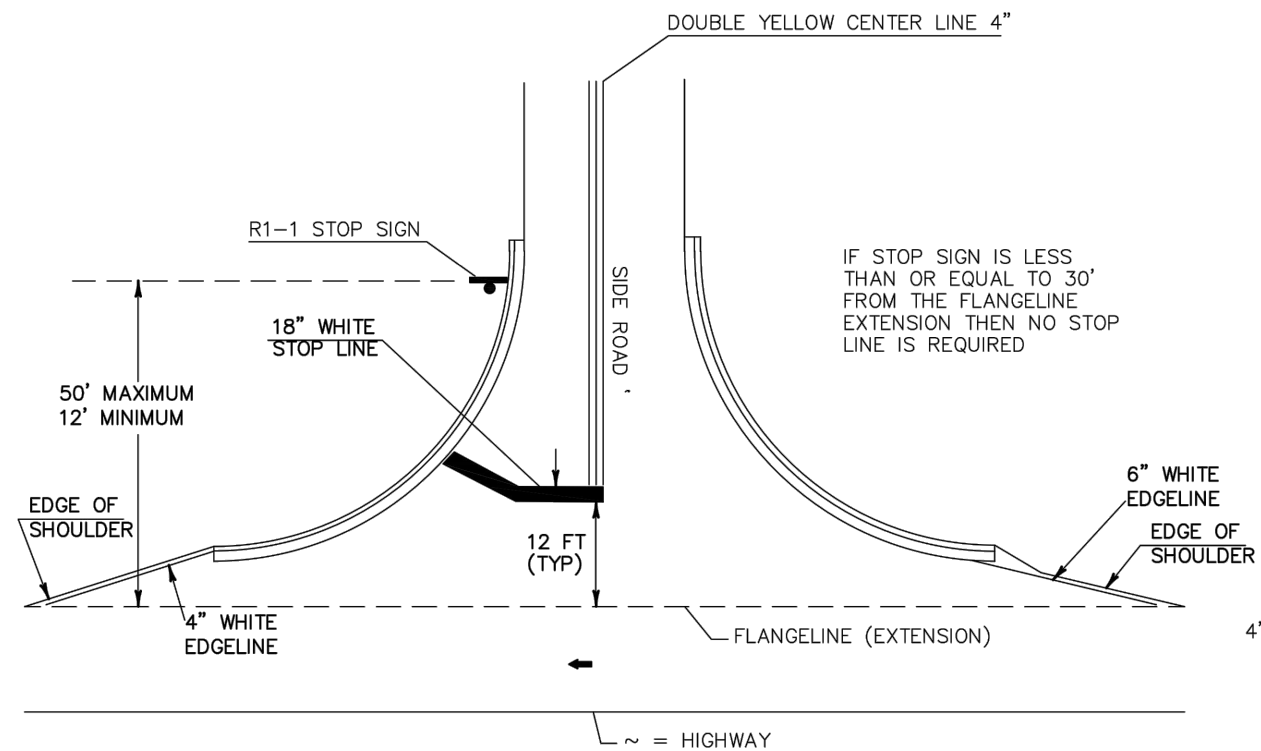
X X X SAWING CONCRETE

 MONOLITHIC CONCRETE

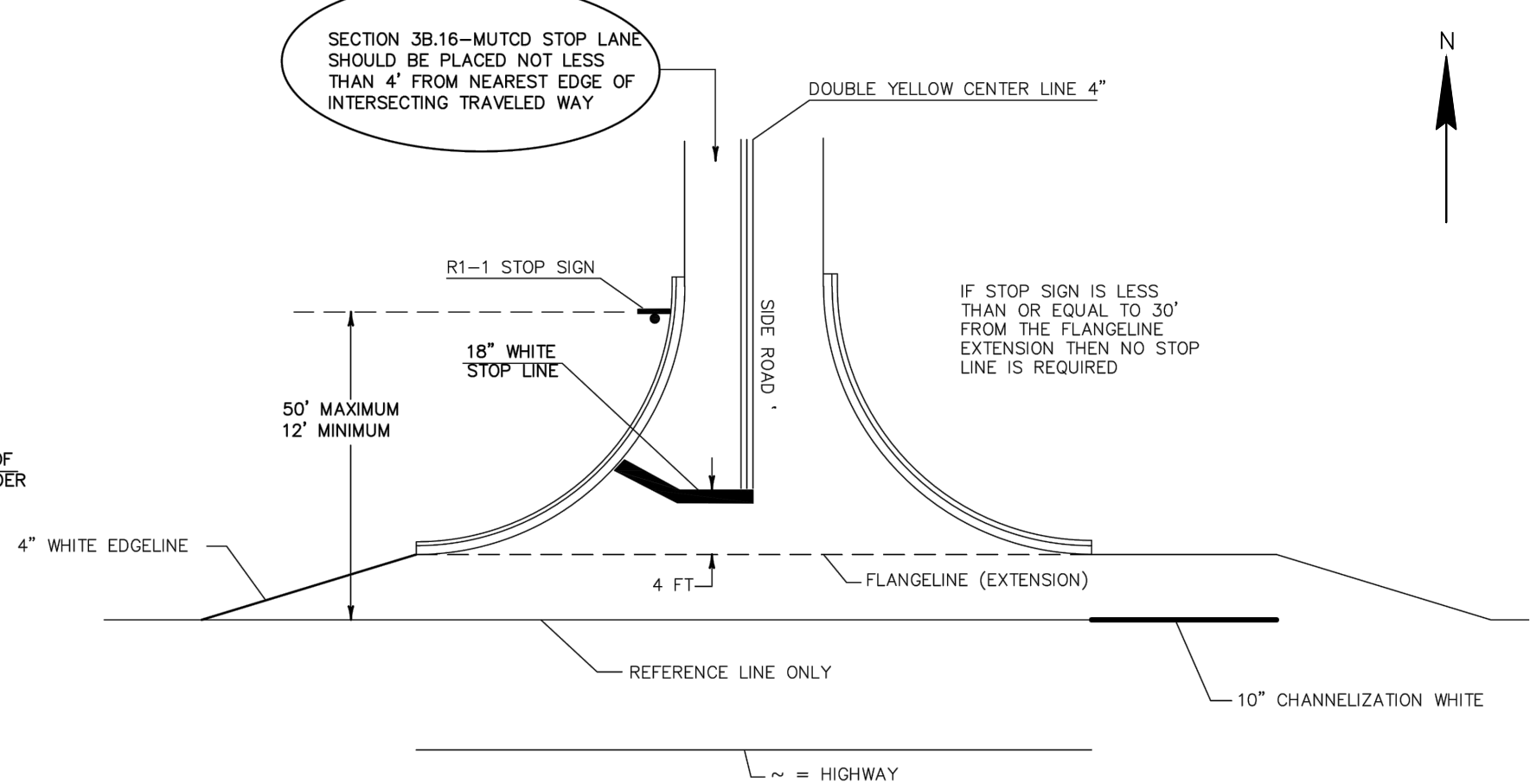
 ASPHALTIC SURFACE PATCHING



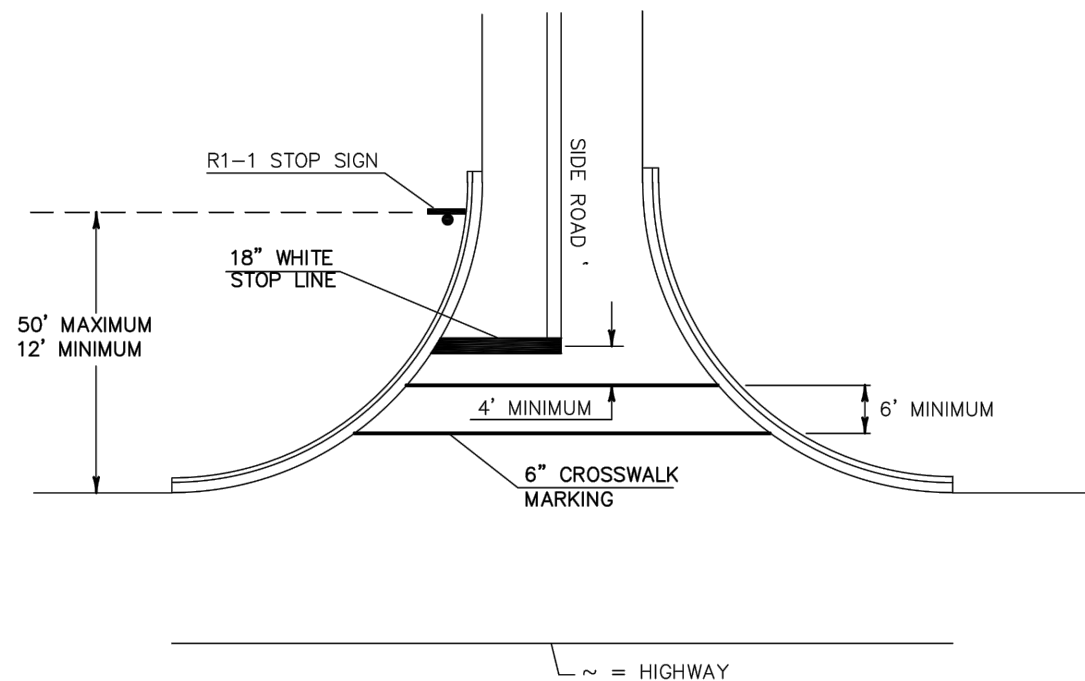
ADJUSTING / RECONSTRUCTING MANHOLES - MONOLITHIC SHIM



TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE

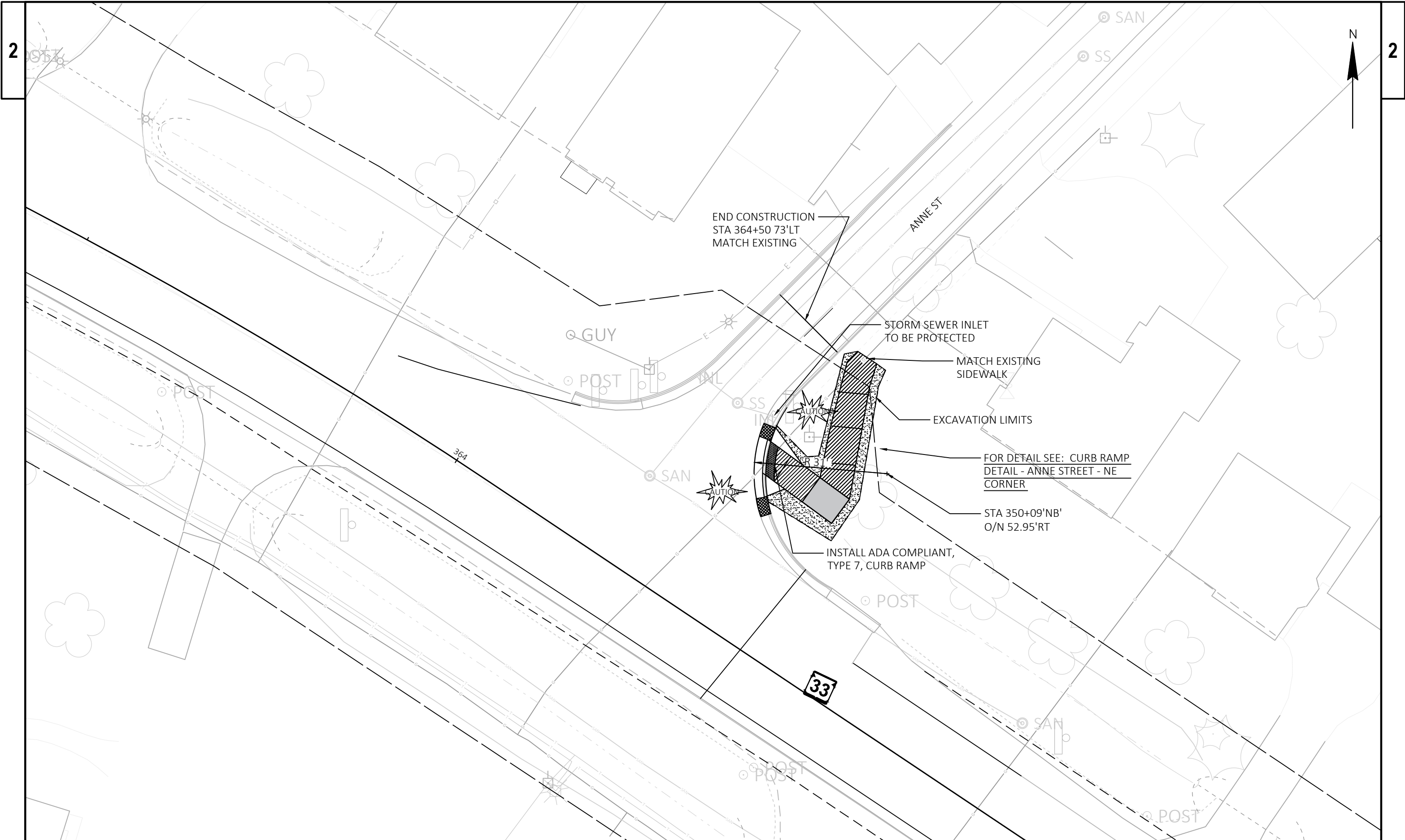


TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

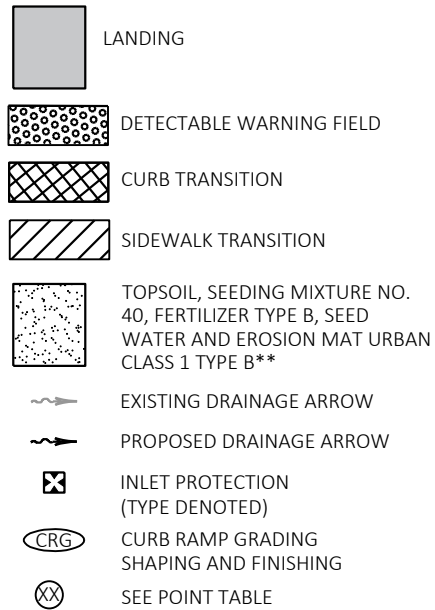
NOTES:
18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

STOP LINES REQUIRED WHERE:

- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
- LARGE RADII
- OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.



LEGEND



NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST CURB RAMP ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAILS.
3. SIDEWALK AND CURB & GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.
4. MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.
5. THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.
6. MATCH EXISTING CURB & GUTTER ELEVATIONS AT MATCH POINTS.
7. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.
8. ALL STATION AND OFFSET INFORMATION REFERENCE STH 33 R/L.
9. ALL CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
10. SEE FDM 11-48. FIGURE 10.6 FOR NON-CURBED ROADWAY CURB RAMP EXAMPLE.
11. SEE CURB AND GUTTER 31" AND SEE CURB RAMP TYPE 2.

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH "XR"	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD
ANNE ST. SOUTH EAST	29.26' R	8.5'	15.97 SF	30.25' R

POINT TABLE

POINT	STATION	OFFSET	X CORDS	Y CORDS	ELEVATION
1	364-57.37	44.16 NE	399607.087	186534.379	864.48
2	364-58.23	44.15 NE	399607.799	186533.886	864.50
3	364-60.45	44.05 NE	399609.591	186532.575	864.53
4	364-61.58	37.00 NE	399606.604	186526.082	864.55
5	364-64.07	36.90 NE	399608.624	186524.608	864.67
6	364-03.79	43.91 NE	399612.490	186530.458	864.60
7	364-72.08	36.56 NE	399615.091	186519.874	864.85
8	364-80.57	36.20 NE	399621.952	186514.857	864.87
9	364-80.87	43.20 NE	399626.084	186520.507	864.87
10	364-77.66	50.52 NE	399627.488	186528.377	864.98
11	366-74.21	58.41 NE	399629.003	186536.856	865.09
12	364-70.97	65.81 NE	399630.420	186544.817	865.13
13	364-70.25	67.46 NE	399630.737	186546.593	865.16
14	364-68.69	72.85 NE	399632.442	186551.936	865.23
15	364-63.37	72.80 NE	399627.990	186554.852	865.12
16	364-62.71	69.42 NE	399625.564	186552.409	865.13
17	364-65.10	62.62 NE	399623.771	186545.420	865.03
18	364-67.81	54.91 NE	399621.741	186537.510	864.98
19	364-71.03	46.87 NE	399619.951	186529.034	864.84
20	364-72.38	43.55 NE	399619.223	186525.525	864.78

STORM SEWER INLET TO BE PROTECTED

FIELD ADJUST CURB TO MATCH INLET

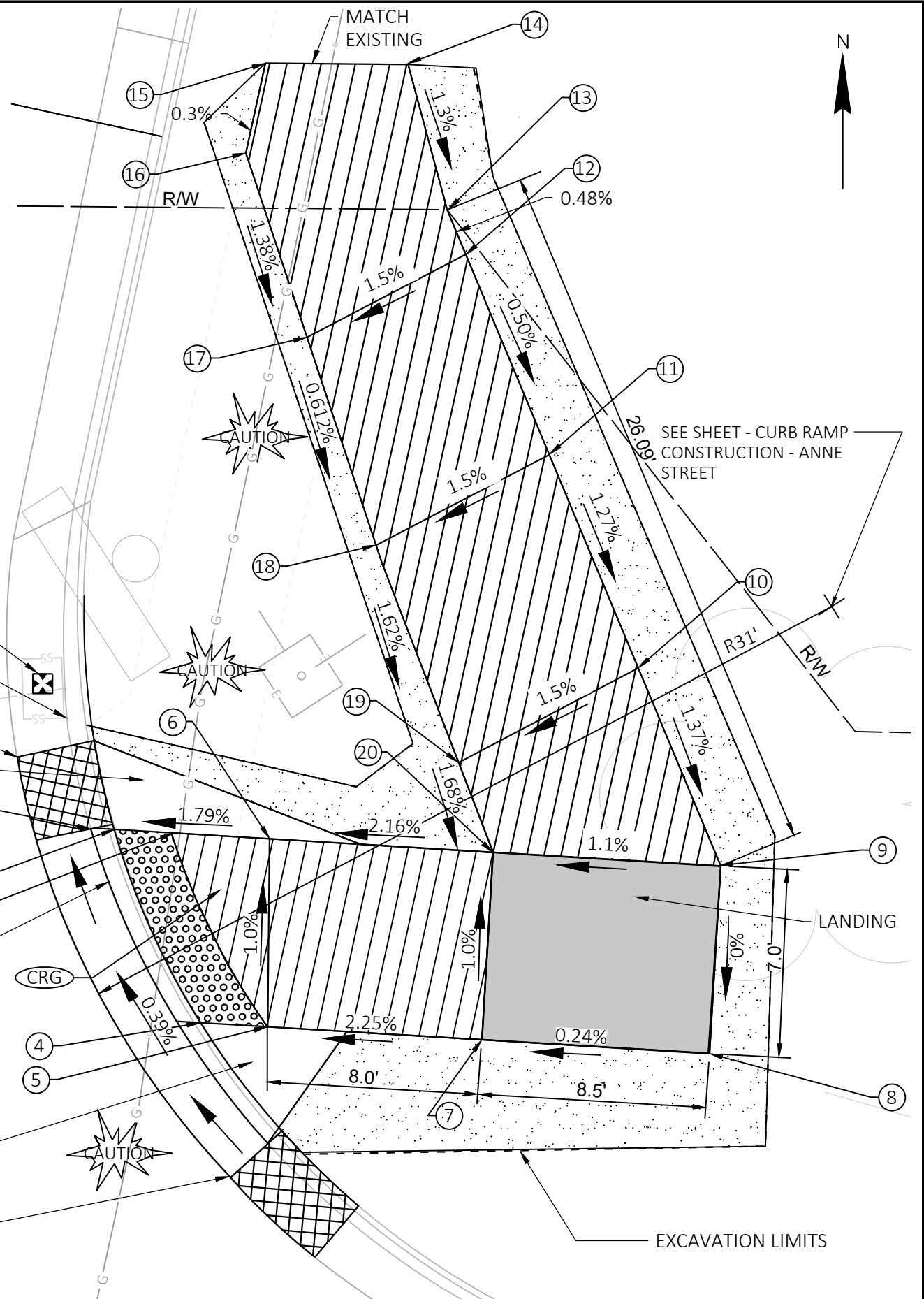
SAWCUT REQUIRED MATCH AT NEAREST JOINT

3.5' FLARE

CURB & CUTTER, 31-INCH

4.5' FLARE

SAWCUT REQUIRED MATCH AT NEAREST JOINT



PROJECT NO: 1410-00-73

HWY: STH 33

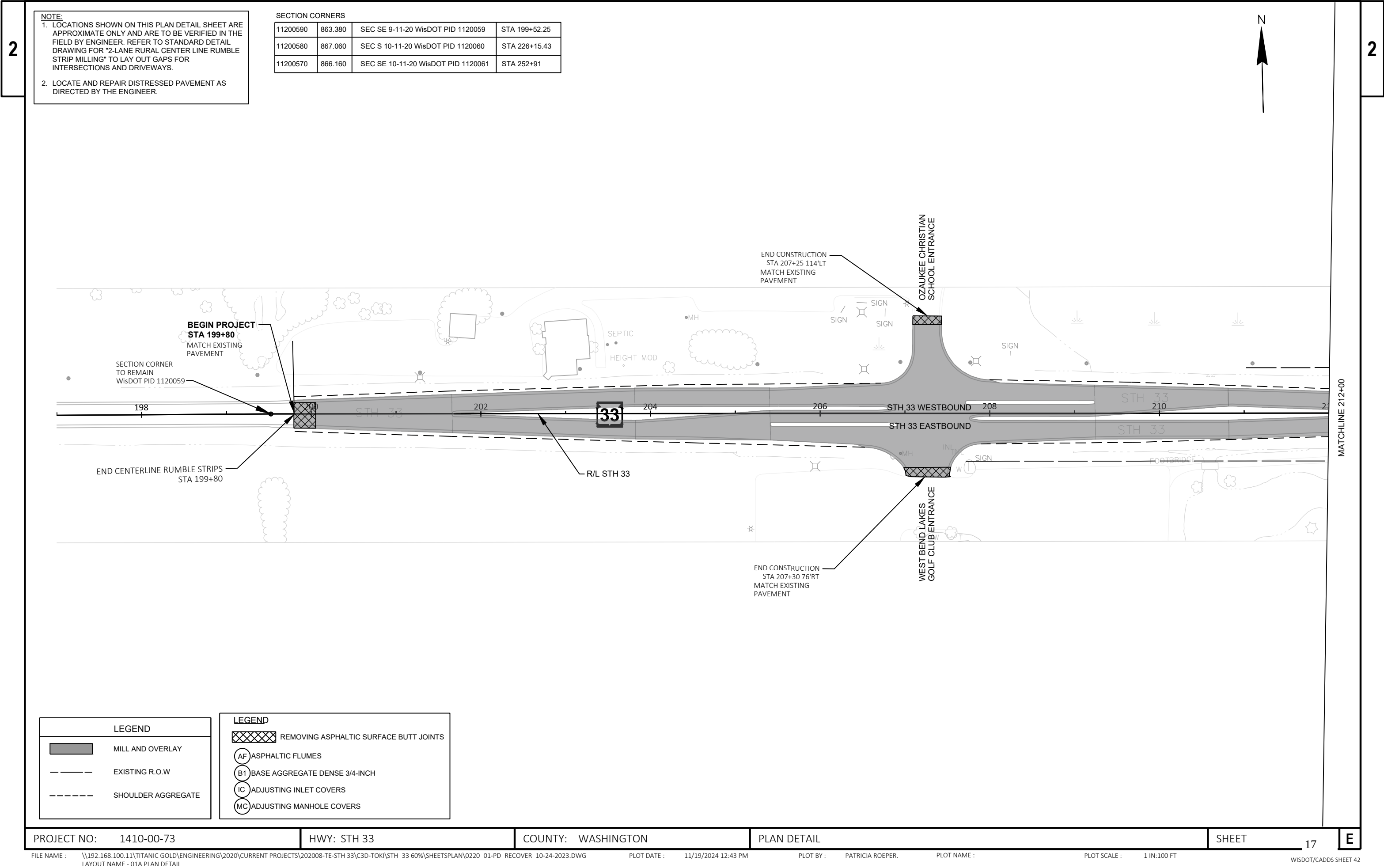
COUNTY: WASHINGTON

CURB RAMP DETAIL - ANNE STREET - NE CORNER

SHEET

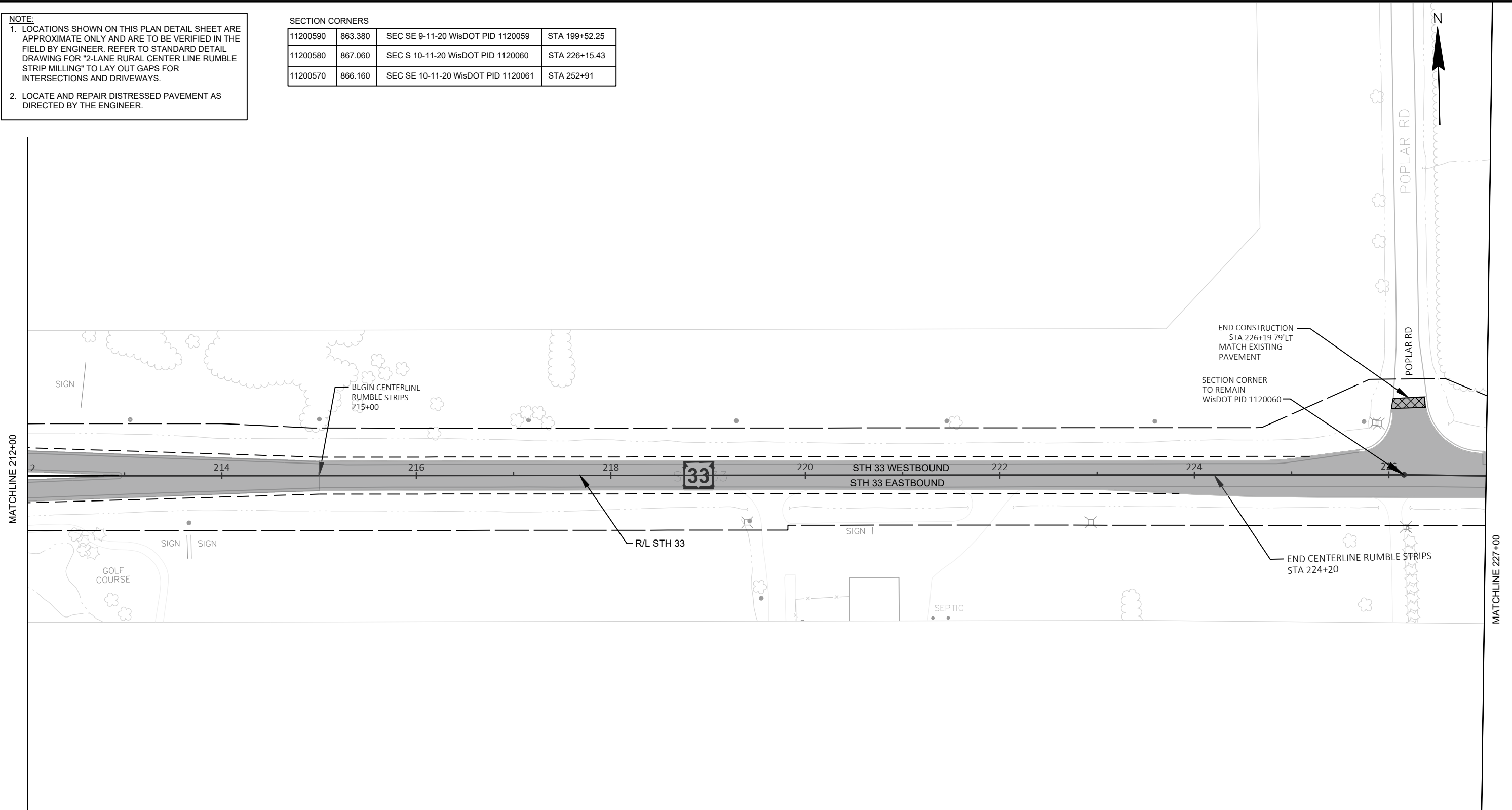
16

E



NOTE:
1. LOCATIONS SHOWN ON THIS PLAN DETAIL SHEET ARE APPROXIMATE ONLY AND ARE TO BE VERIFIED IN THE FIELD BY ENGINEER. REFER TO STANDARD DETAIL DRAWING FOR "2-LANE RURAL CENTER LINE RUMBLE STRIP MILLING" TO LAY OUT GAPS FOR INTERSECTIONS AND DRIVEWAYS.
2. LOCATE AND REPAIR DISTRESSED PAVEMENT AS DIRECTED BY THE ENGINEER.

SECTION CORNERS			
11200590	863.380	SEC SE 9-11-20 WisDOT PID 1120059	STA 199+52.25
11200580	867.060	SEC S 10-11-20 WisDOT PID 1120060	STA 226+15.43
11200570	866.160	SEC SE 10-11-20 WisDOT PID 1120061	STA 252+91



LEGEND

MILL AND OVERLAY

EXISTING R.O.W

SHOULDER AGGREGATE

LEGEND

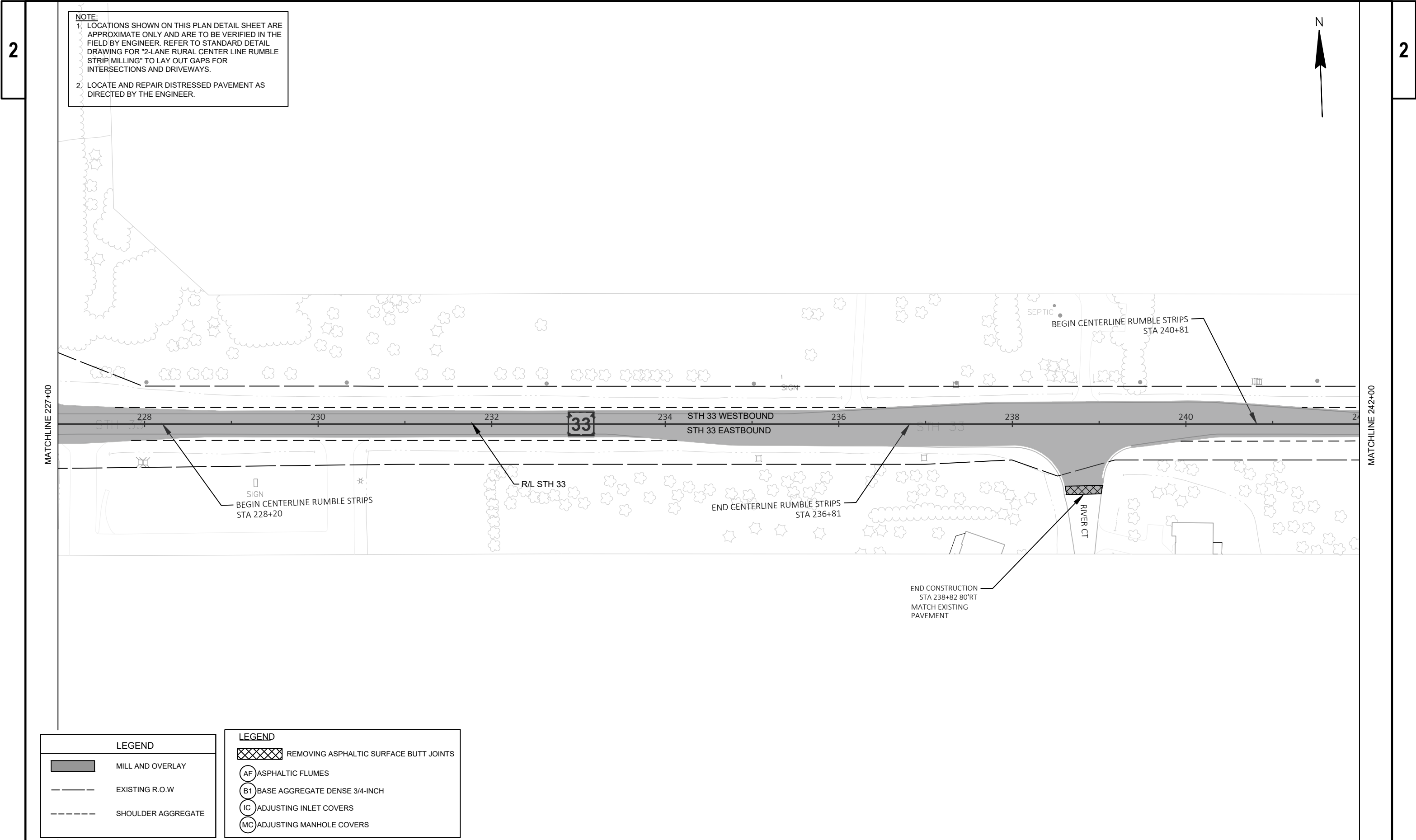
REMOVING ASPHALTIC SURFACE BUTT JOINTS

AF ASPHALTIC FLUMES

B1 BASE AGGREGATE DENSE 3/4-INCH

IC ADJUSTING INLET COVERS

MC ADJUSTING MANHOLE COVERS



- NOTE:
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 2. LOCATE AND REPAIR DISTRESSED PAVEMENT AS DIRECTED BY THE ENGINEER.

SECTION CORNERS

11200590	863.380	SEC SE 9-11-20 WisDOT PID 1120059	STA 199+52.25
11200580	867.060	SEC S 10-11-20 WisDOT PID 1120060	STA 226+15.43
11200570	866.160	SEC SE 10-11-20 WisDOT PID 1120061	STA 252+91

MATCHLINE 242+00

MATCHLINE 257+00



LEGEND	
	MILL AND OVERLAY
	EXISTING R.O.W
	SHOULDER AGGREGATE

LEGEND	
	REMOVING ASPHALTIC SURFACE BUTT JOINTS
	AF ASPHALTIC FLUMES
	B1 BASE AGGREGATE DENSE 3/4-INCH
	IC ADJUSTING INLET COVERS
	MC ADJUSTING MANHOLE COVERS

PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

PLAN DETAIL

SHEET

20

E

FILE NAME : \\192.168.100.11\TITANIC GOLD\ENGINEERING\2020\CURRENT PROJECTS\202008-TE-STH 33\C3D-TOKI\STH_33 60%\SHEETSP\AN\0220_01-PD_RECOVER_10-24-2023.DWG
LAYOUT NAME - 03 PLAN DETAIL

PLOT DATE : 11/19/2024 12:51 PM

PLOT BY : PATRICIA ROEPER.

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 42

2

2

NOTE:

1. LOCATIONS SHOWN ON THIS PLAN DETAIL SHEET ARE APPROXIMATE ONLY AND ARE TO BE VERIFIED IN THE FIELD BY ENGINEER. REFER TO STANDARD DETAIL DRAWING FOR "2-LANE RURAL CENTER LINE RUMBLE STRIP MILLING" TO LAY OUT GAPS FOR INTERSECTIONS AND DRIVEWAYS.
2. LOCATE AND REPAIR DISTRESSED PAVEMENT AS DIRECTED BY THE ENGINEER.

APPROXIMATE LOCATION OF
47WT91 (GODWIN) BURIAL
SITE

— EXCEPTION TO NET CL
STA 262+39.87 TO 263+85.33
B-66-093

— SPRAY ASPHALT EMULSION
ON EXISTING GRAVEL
AROUND GUARDRAIL.
TYPICAL THROUGHOUT
PROJECT.

SPRAY ASPHALT EMULSION
ON EXISTING GRAVEL
AROUND GUARDRAIL.
TYPICAL THROUGHOUT
PROJECT.

MATCHLINE 257+00

SPRAY ASPHALT EMULSION
ON EXISTING GRAVEL
AROUND GUARDRAIL.
TYPICAL THROUGHOUT
PROJECT.

— R/L STH 33

SPRAY ASPHALT EMULSION
ON EXISTING GRAVEL
AROUND GUARDRAIL.
TYPICAL THROUGHOUT
PROJECT.

END CONSTRUCTION
STA 263+85.33
MATCH EXISTING PAVEMENT

— END CONSTRUCTION
STA 262+39.87
MATCH EXISTING PAVEMENT

— SPRAY ASPHALT EMULSION
ON EXISTING GRAVEL
AROUND GUARDRAIL.
TYPICAL THROUGHOUT
PROJECT.

SPRAY ASPHALT EMULSION
ON EXISTING GRAVEL
AROUND GUARDRAIL.
TYPICAL THROUGHOUT
PROJECT.

END CENTERLINE RUMBLE STRIPS
STA 270+04

MATCH EXISTING
PAVEMENT

MATCHLINE 271+68

LEGEND

 MILL AND OVERLAY

EXISTING R.O.W

SHOULDER AGGREGATE

LEGEND

 REMOVING ASPHALTIC SURFACE BUTT JOINTS

(AF) ASPHALTIC FLUMES

(B1) BASE AGGREGATE DENSE 3/4-INCH

IC ADJUSTING INLET COVERS

(MC) ADJUSTING MANHOLE COVERS

PROJECT NO:	1410-00-73
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HWY: STH 33

COUNTY: WASHINGTON

PLAN DETAIL

SHEET

21

E

FILE NAME : \\192.168.100.11\TITANIC GOLD\ENGINEERING\2020\CURRENT PROJECTS\202008-TE-STH 33\C3D-TOKI\STH_33 60%\SHEETSP\0220_01-PD_RECOVER_10-24-2023.DWG
LAYOUT NAME - 04 PLAN DETAIL

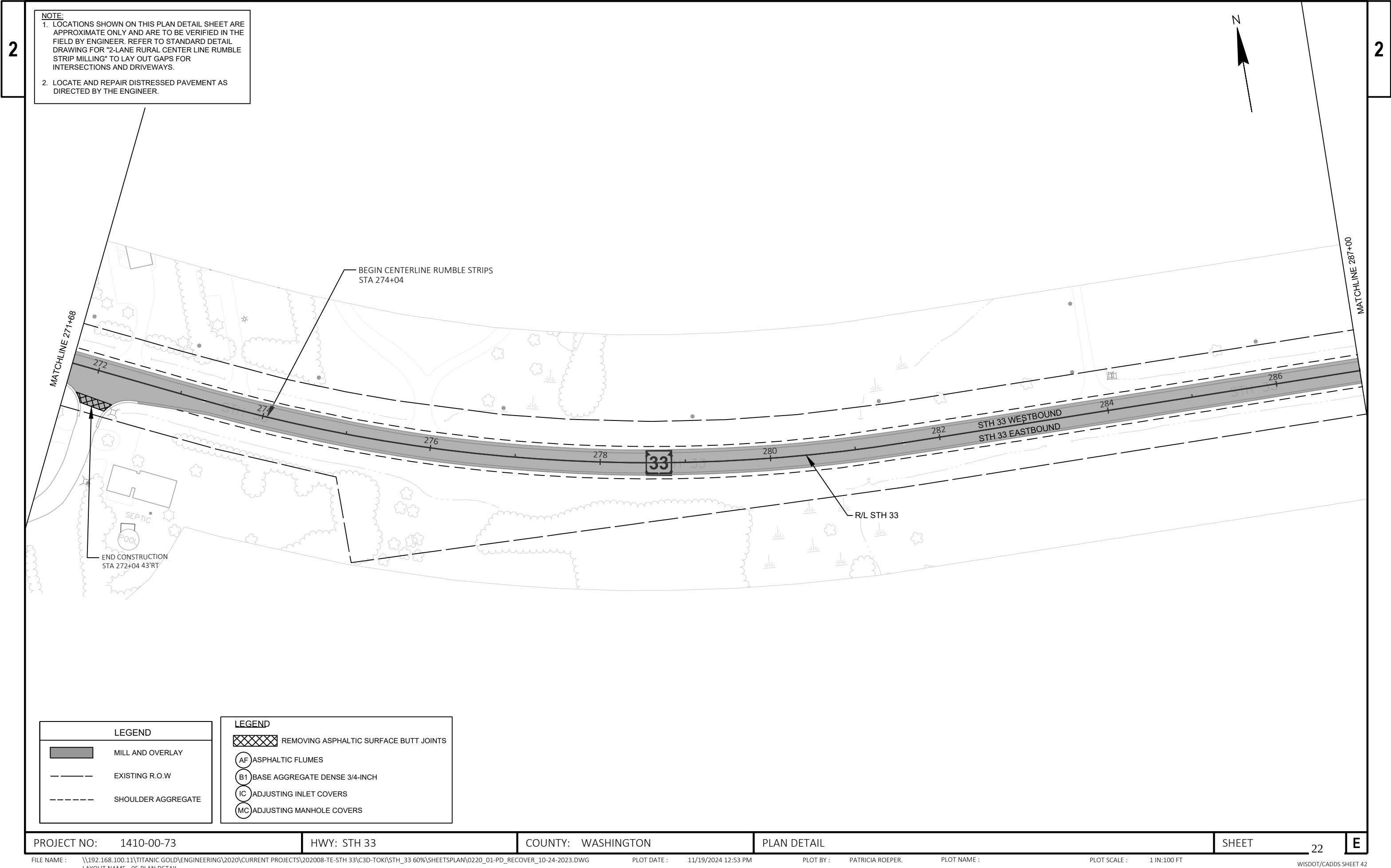
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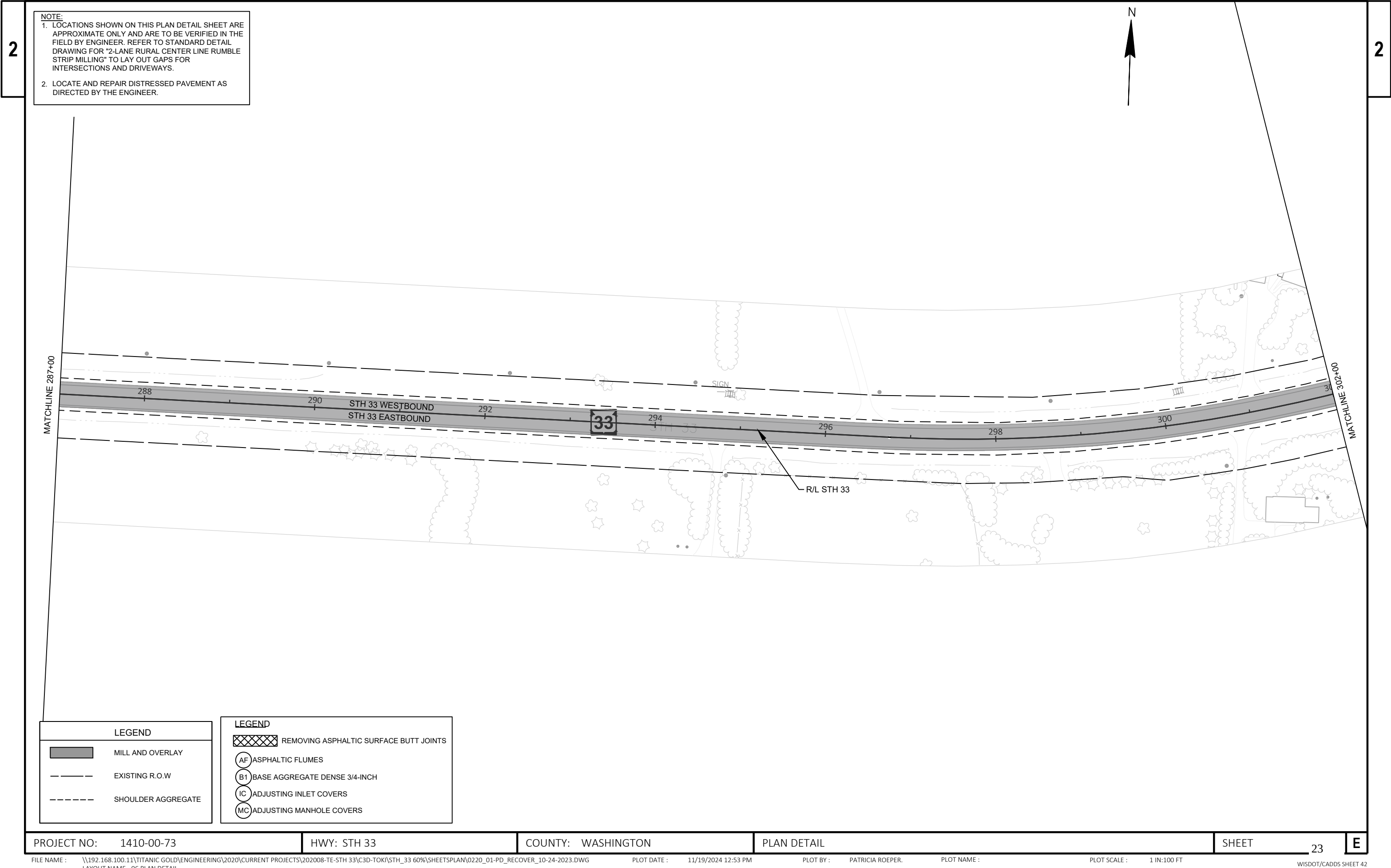
PLOT BY : PATRICIA ROEPER.

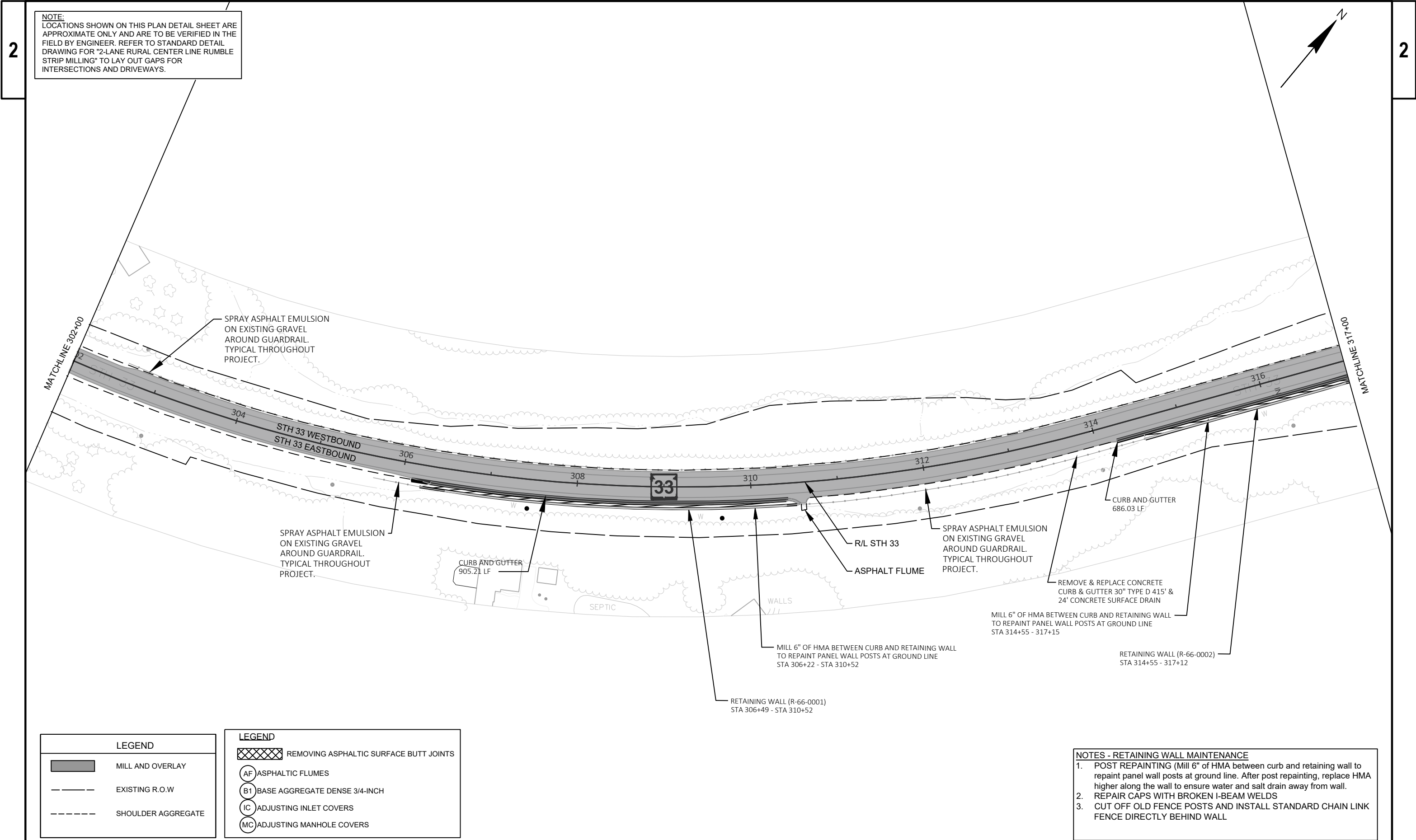
PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42





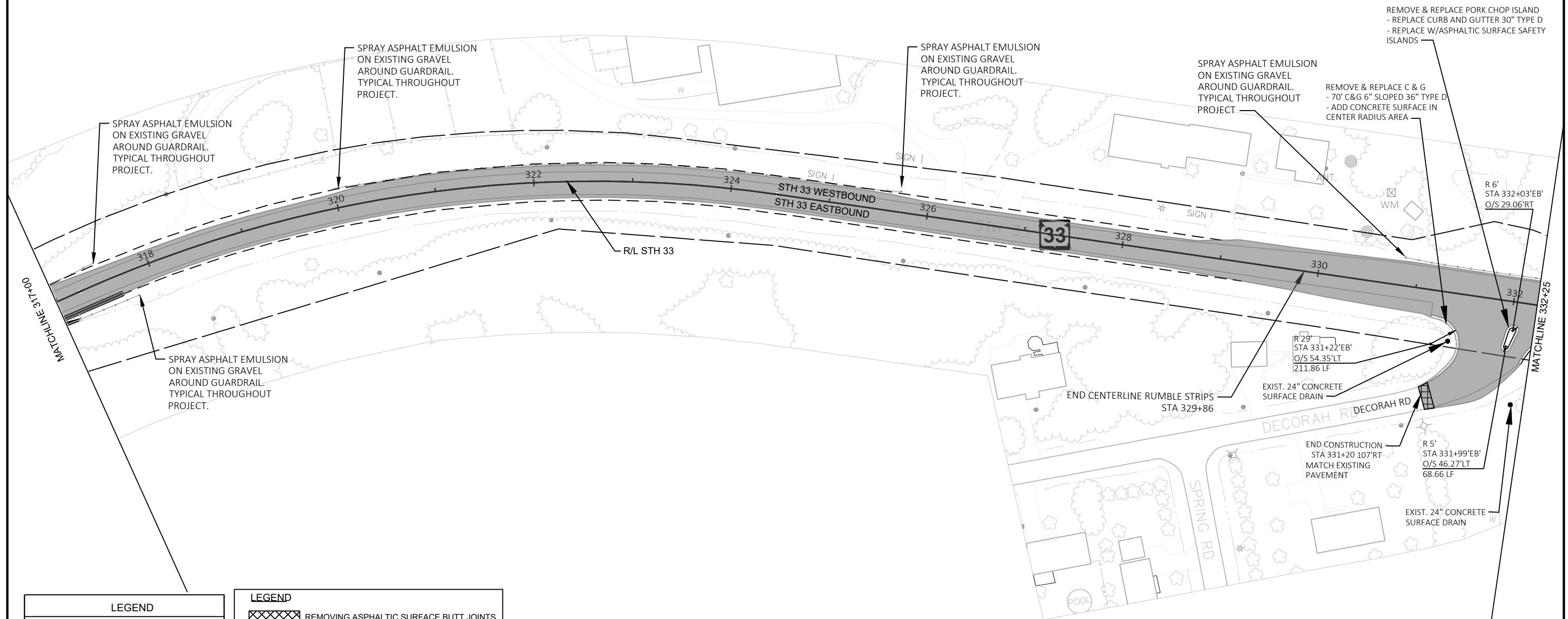


2

1. LOCATIONS SHOWN ON THIS PLAN DETAIL SHEET ARE APPROXIMATE ONLY AND ARE TO BE VERIFIED IN THE FIELD BY ENGINEER. REFER TO STANDARD DETAIL DRAWING FOR "2-LANE RURAL CENTER LINE RUMBLE STRIP MILLING" TO LAY OUT GAPS FOR INTERSECTIONS AND DRIVEWAYS.

2. LOCATE AND REPAIR DISTRESSED PAVEMENT AS DIRECTED BY THE ENGINEER.

2 |



LEGEND

 MILL AND OVERLAY
 EXISTING R.O.W
 SHOULDER AGGREGATE

LEGEND

 REMOVING ASPHALTIC SURFACE BUTT JOINTS

(AF) ASPHALTIC FLUMES

(B1) BASE AGGREGATE DENSE 3/4-INCH

(IC) ADJUSTING INLET COVERS

(MC) ADJUSTING MANHOLE COVERS

PROJECT NO:	1410-00-73
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HWY: STH 33

COUNTY: WASHINGTON

PLAN DETAIL

SHEET

25

11

FILE NAME : \\192.168.100.11\TITANIC GOLD\ENGINEERING\2020\CURRENT PROJECTS\202008-TE-STH 33\C3D-TOKI\STH_33 60%\SHEETSPLAN\0220_01-PD_RECOVER_10-24-2023.DWG
LAYOUT NAME - 08 PLAN DETAIL

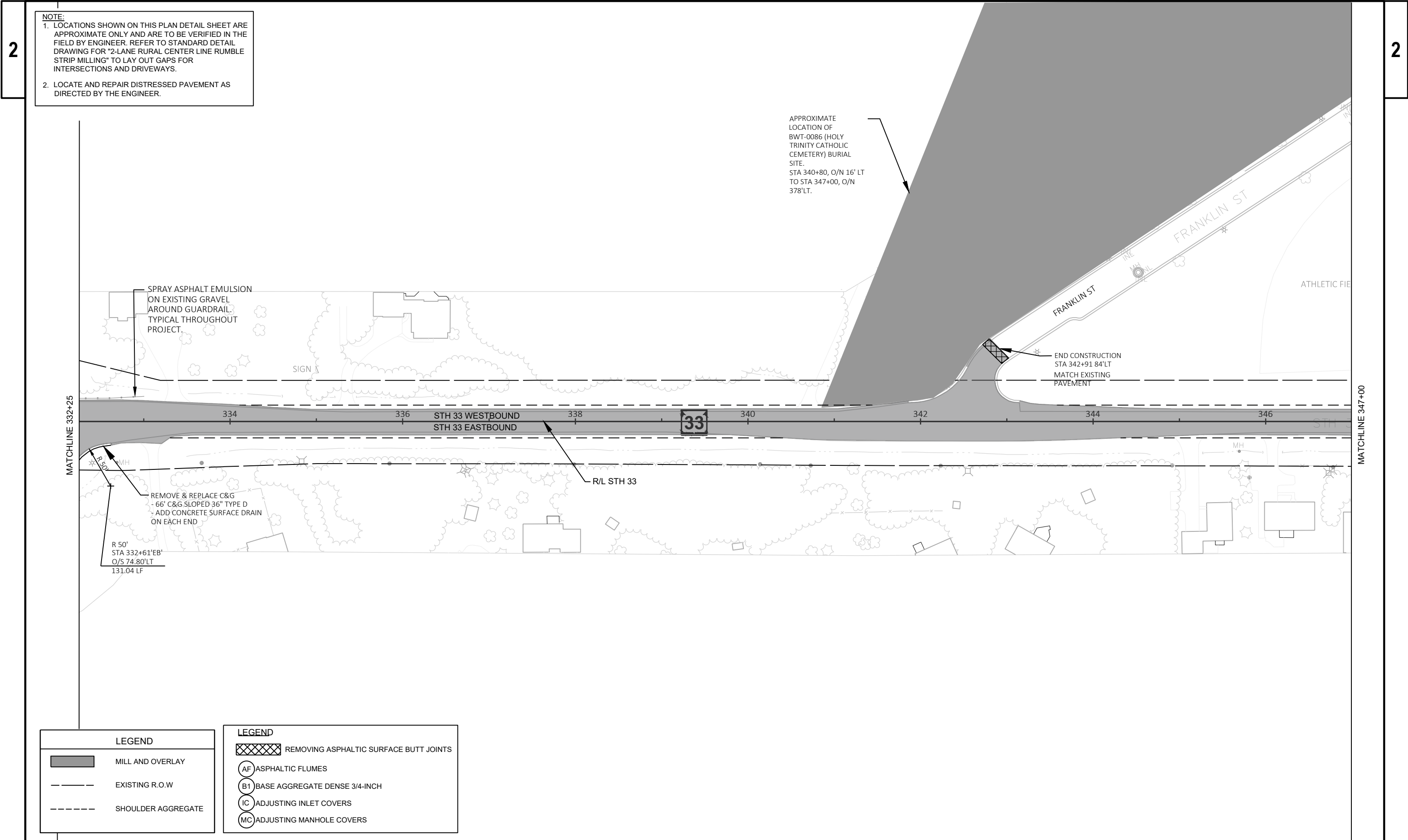
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PLOT BY : PATRICIA ROEPER.

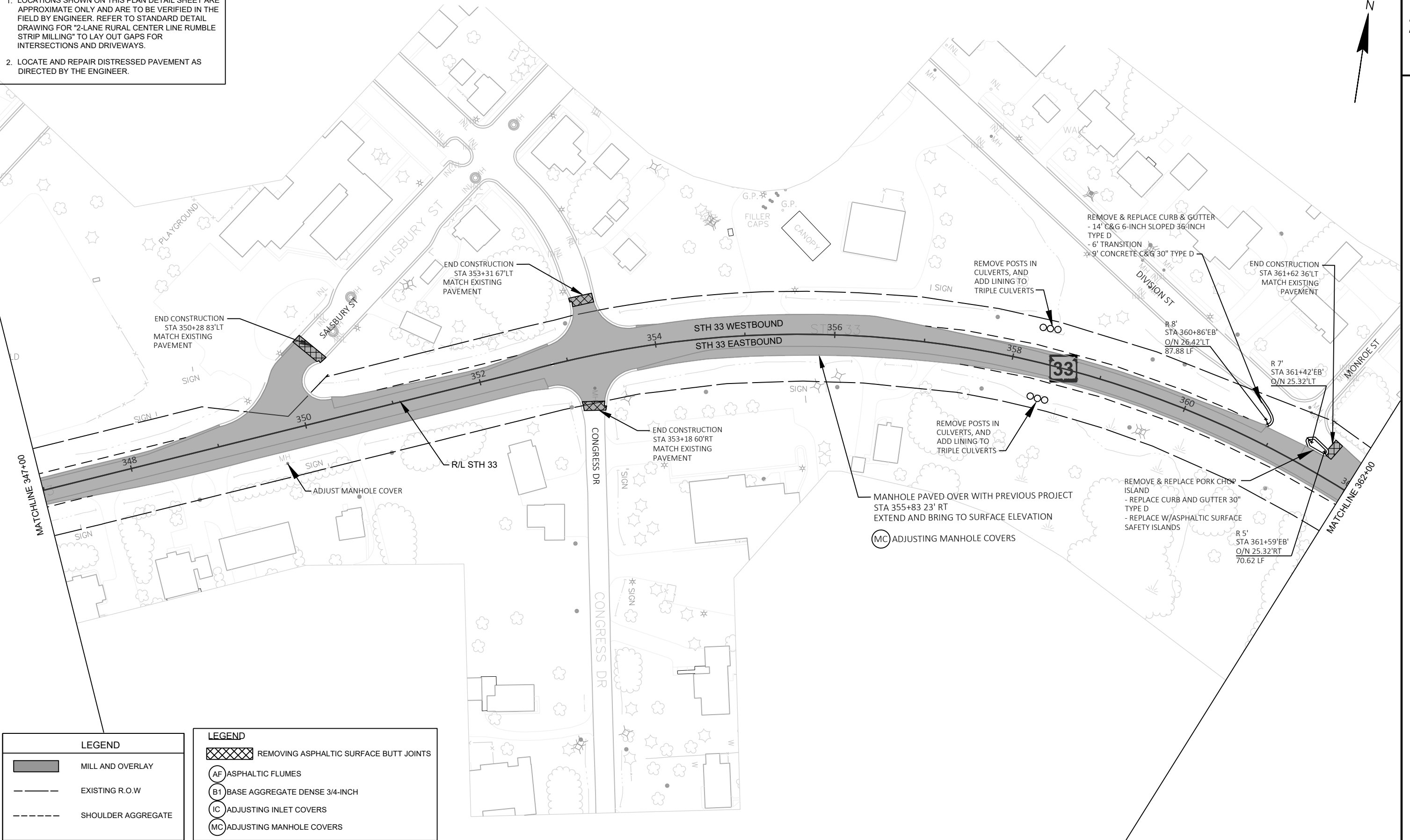
PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



- NOTE:
1. LOCATIONS SHOWN ON THIS PLAN DETAIL SHEET ARE APPROXIMATE ONLY AND ARE TO BE VERIFIED IN THE FIELD BY ENGINEER. REFER TO STANDARD DETAIL DRAWING FOR "2-LANE RURAL CENTER LINE RUMBLE STRIP MILLING" TO LAY OUT GAPS FOR INTERSECTIONS AND DRIVEWAYS.
 2. LOCATE AND REPAIR DISTRESSED PAVEMENT AS DIRECTED BY THE ENGINEER.



LEGEND

- MILL AND OVERLAY
- EXISTING R.O.W
- SHOULDER AGGREGATE

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- AF ASPHALTIC FLUMES
- B1 BASE AGGREGATE DENSE 3/4-INCH
- IC ADJUSTING INLET COVERS
- MC ADJUSTING MANHOLE COVERS

PROJECT NO: 1410-00-73

HWY: STH 33

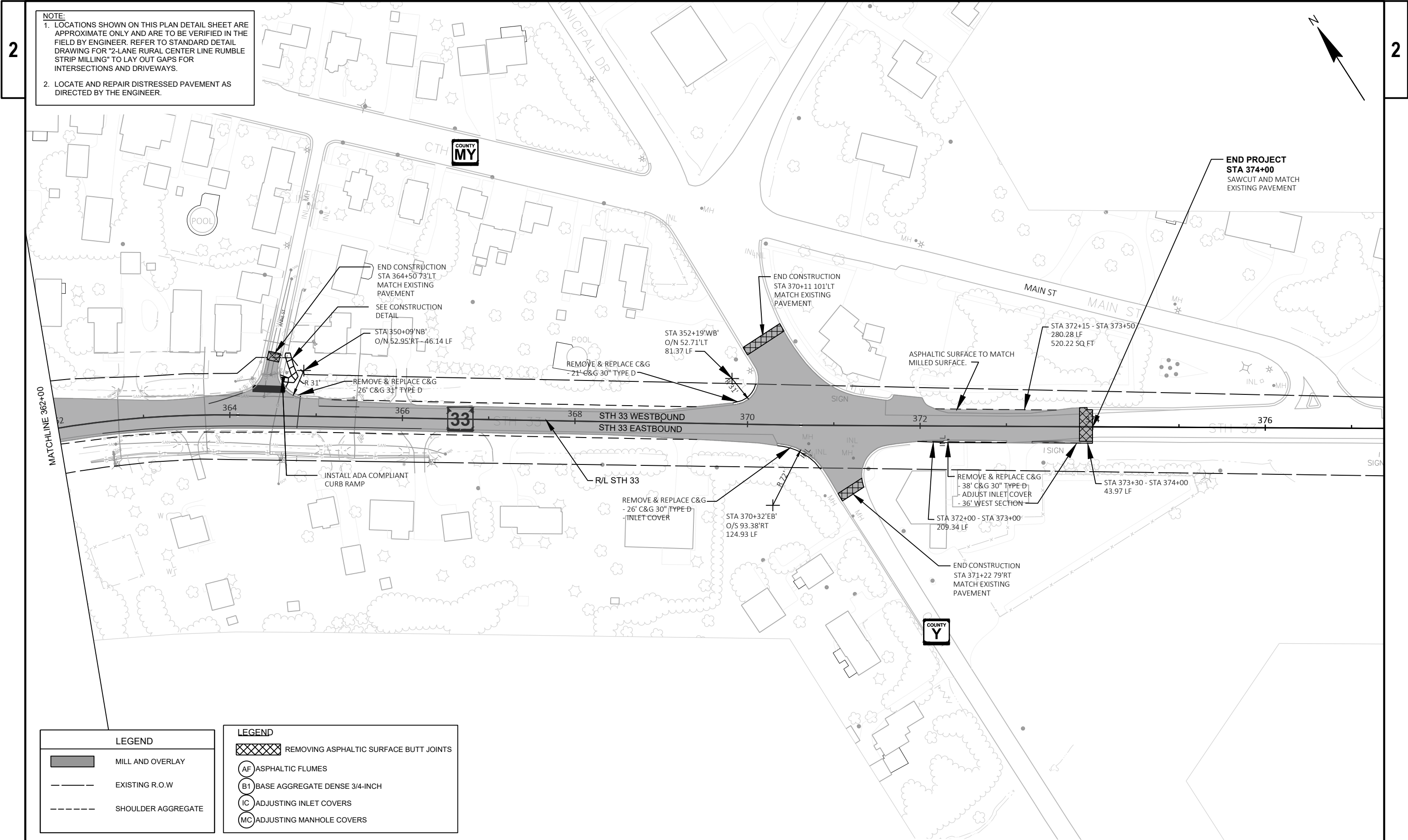
COUNTY: WASHINGTON

PLAN DETAIL

SHEET

27

E



2

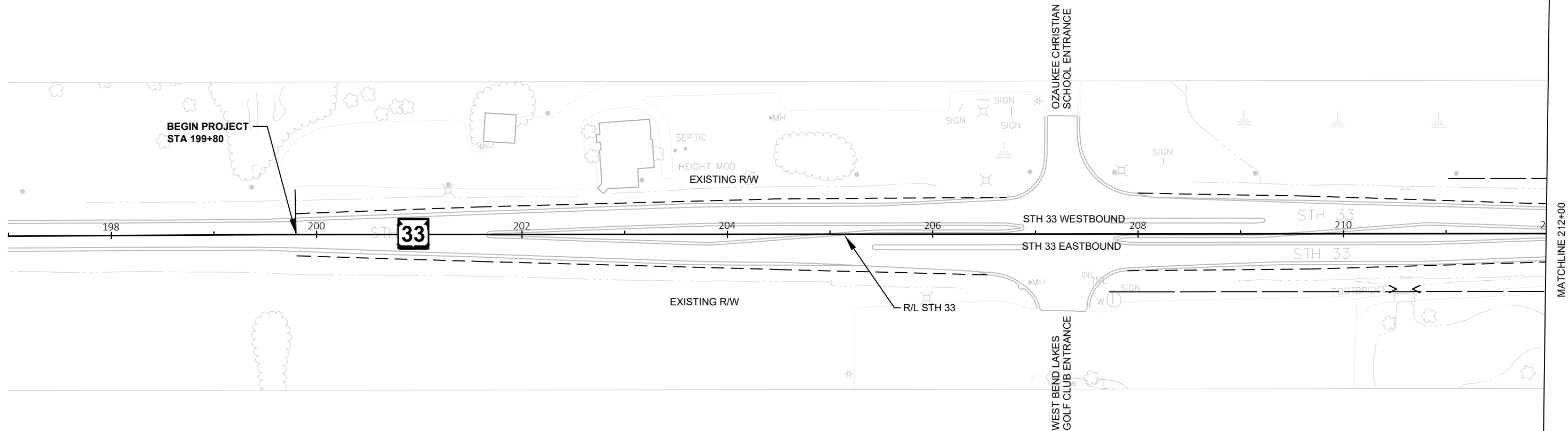
2

LEGEND

	SILT FENCE
	TEMPORARY DITCH CHECK
	INLET PROTECTION, TYPE X
	STORM SEWER FLOW
	CULVERT PIPE CHECK
	EROSION MAT CLASS I, TYPE A URBAN
	SURFACE WATER FLOW
	CULVERT PIPE REINF. CONCRETE CLASS III W/AEW'S 18-INCH
	RIPRAP LIGHT
	RIPRAP MEDIUM
	TURBIDITY BARRIER

NOTES:

- 1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.
- 2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.



PROJECT NO:	1410-00-73
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HWY: STH 33

COUNTY: WASHINGTON

EROSION CONTROL

SHEET	29	E
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FILE NAME : \\192.168.100.11\TITANIC GOLD\ENGINEERING\2020\CURRENT PROJECTS\202008-TE-STH 33\3D-TOKI\STH_33 60%\SHEETSPLAN\0220_01-EC-3-27-2023.DWG
LAYOUT NAME - 01A EROSION CONTROL

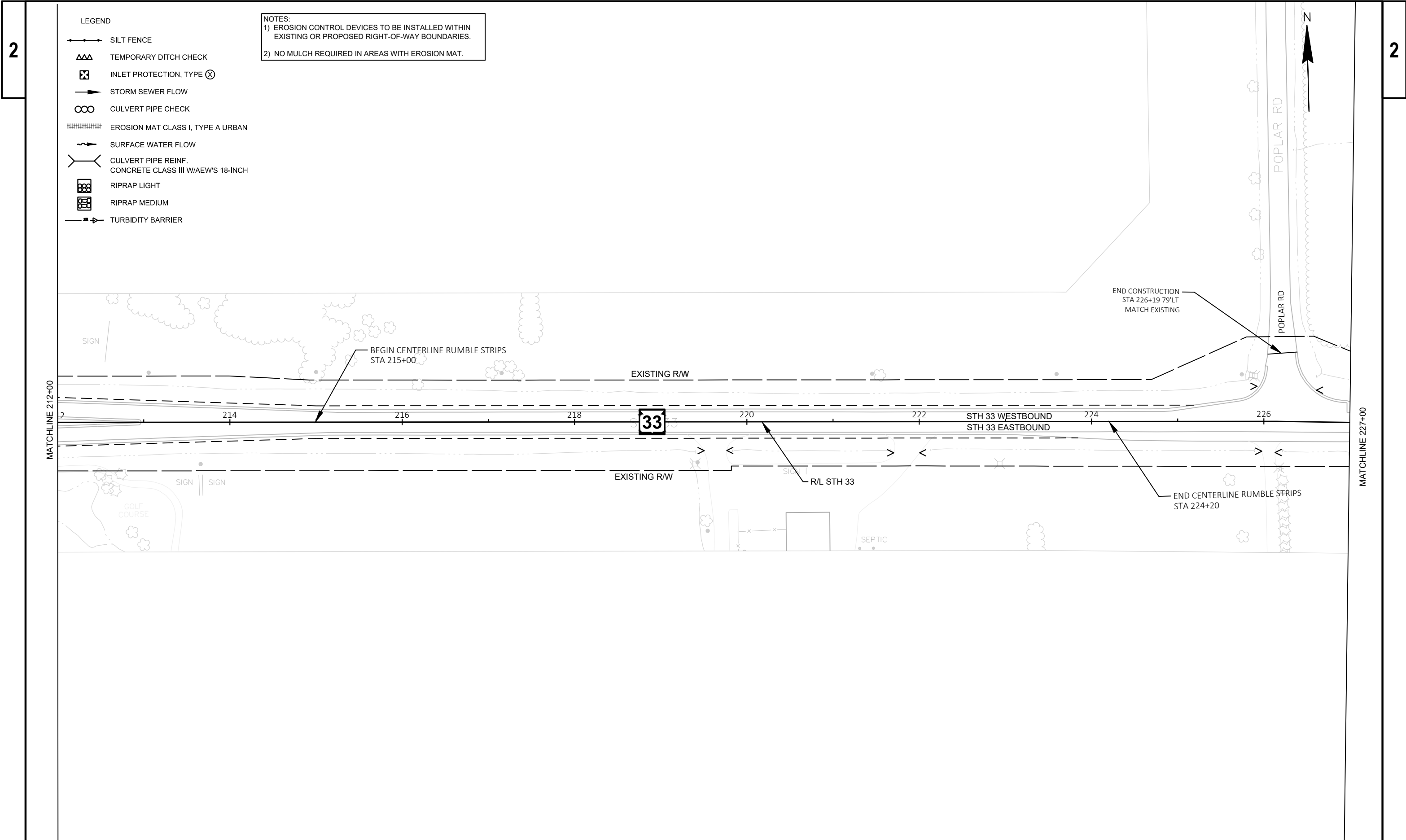
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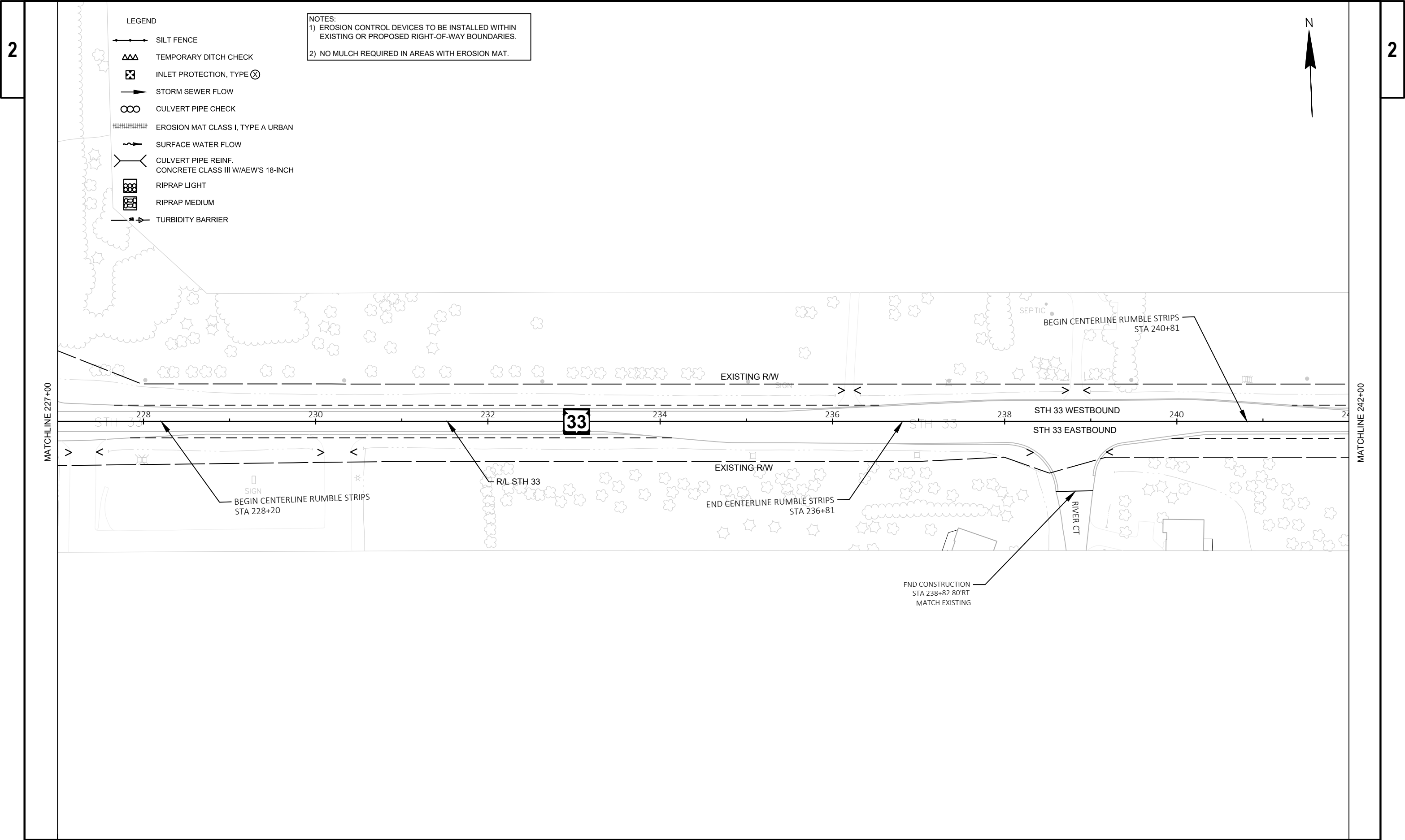
PLOT BY : PATRICIA ROEPER.

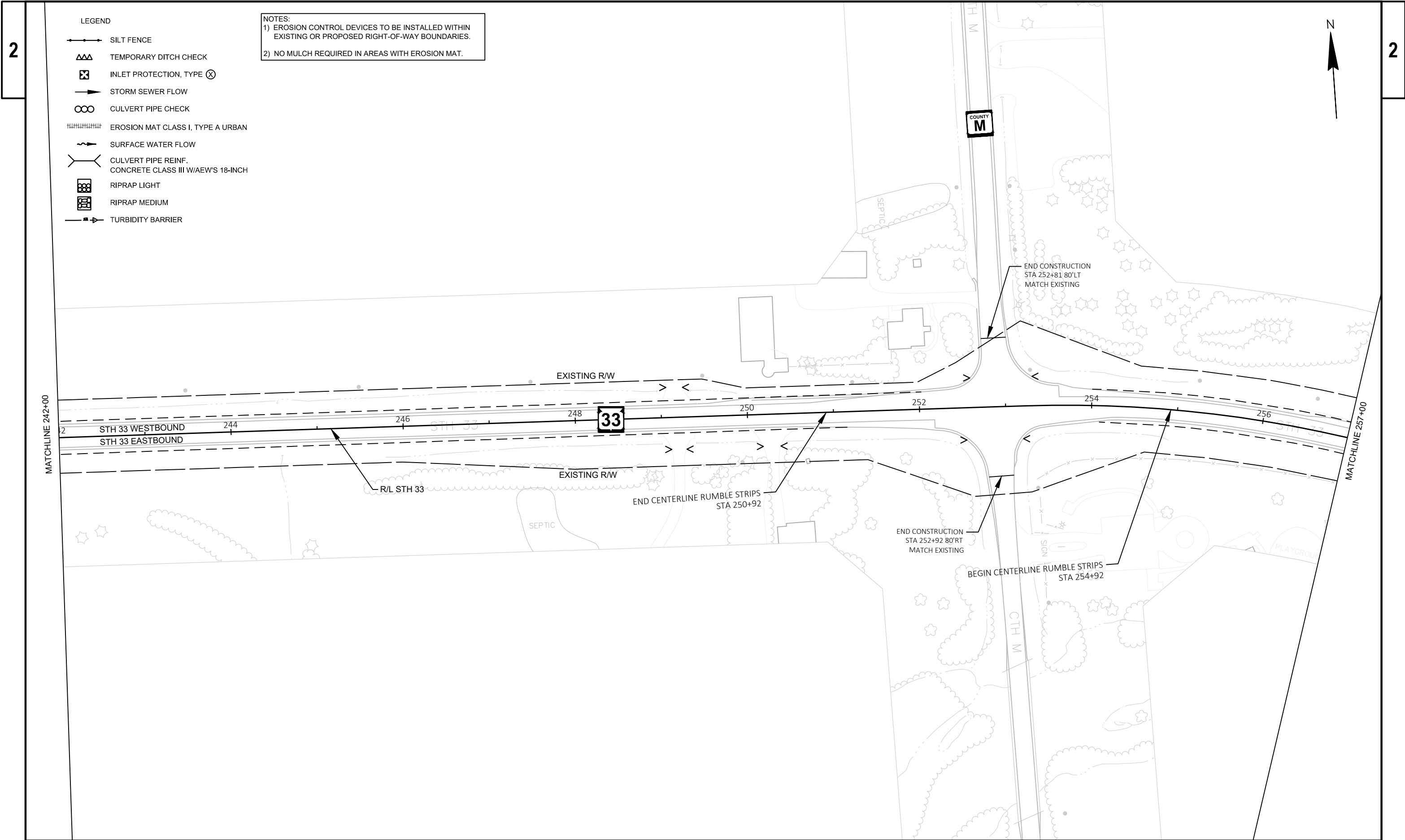
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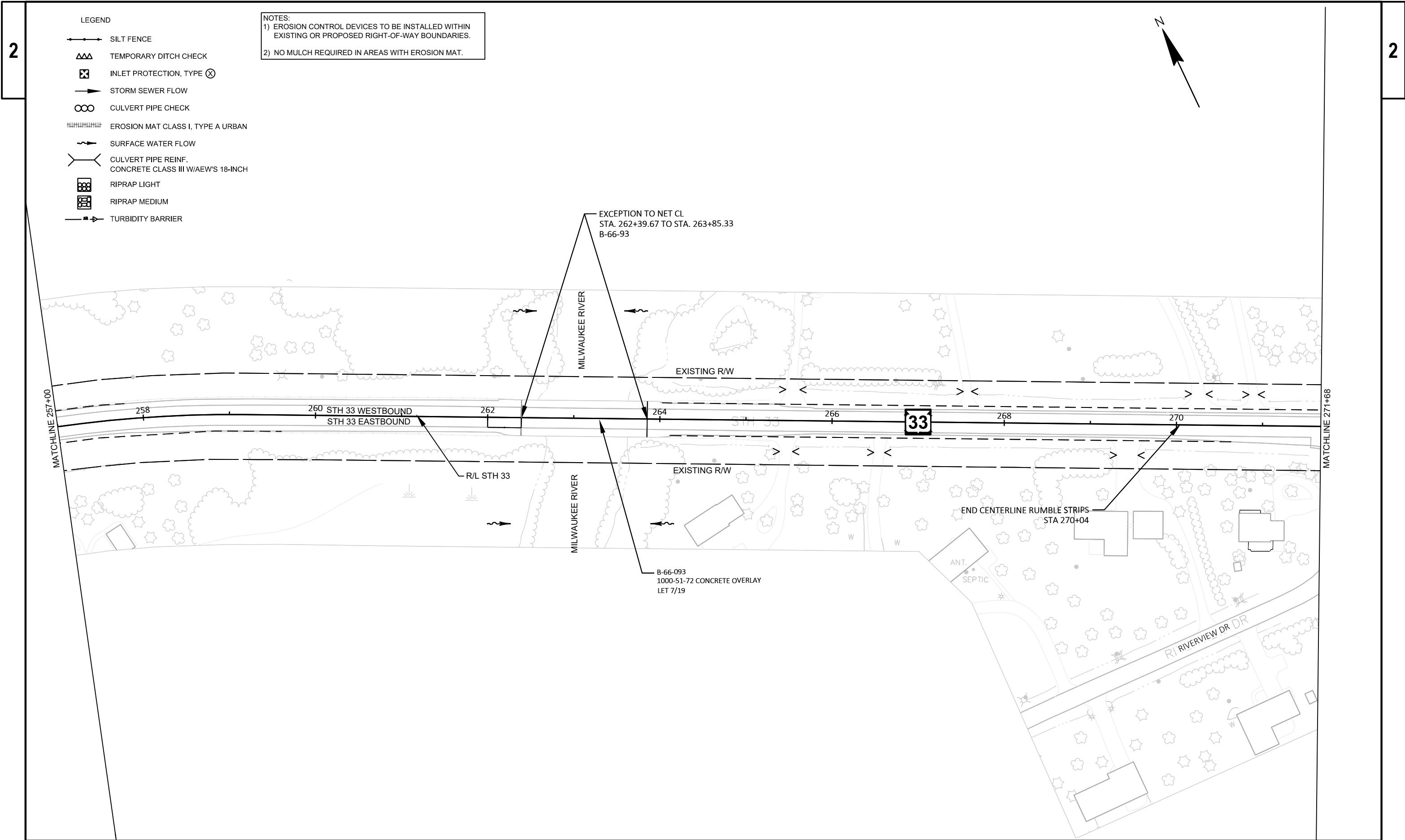
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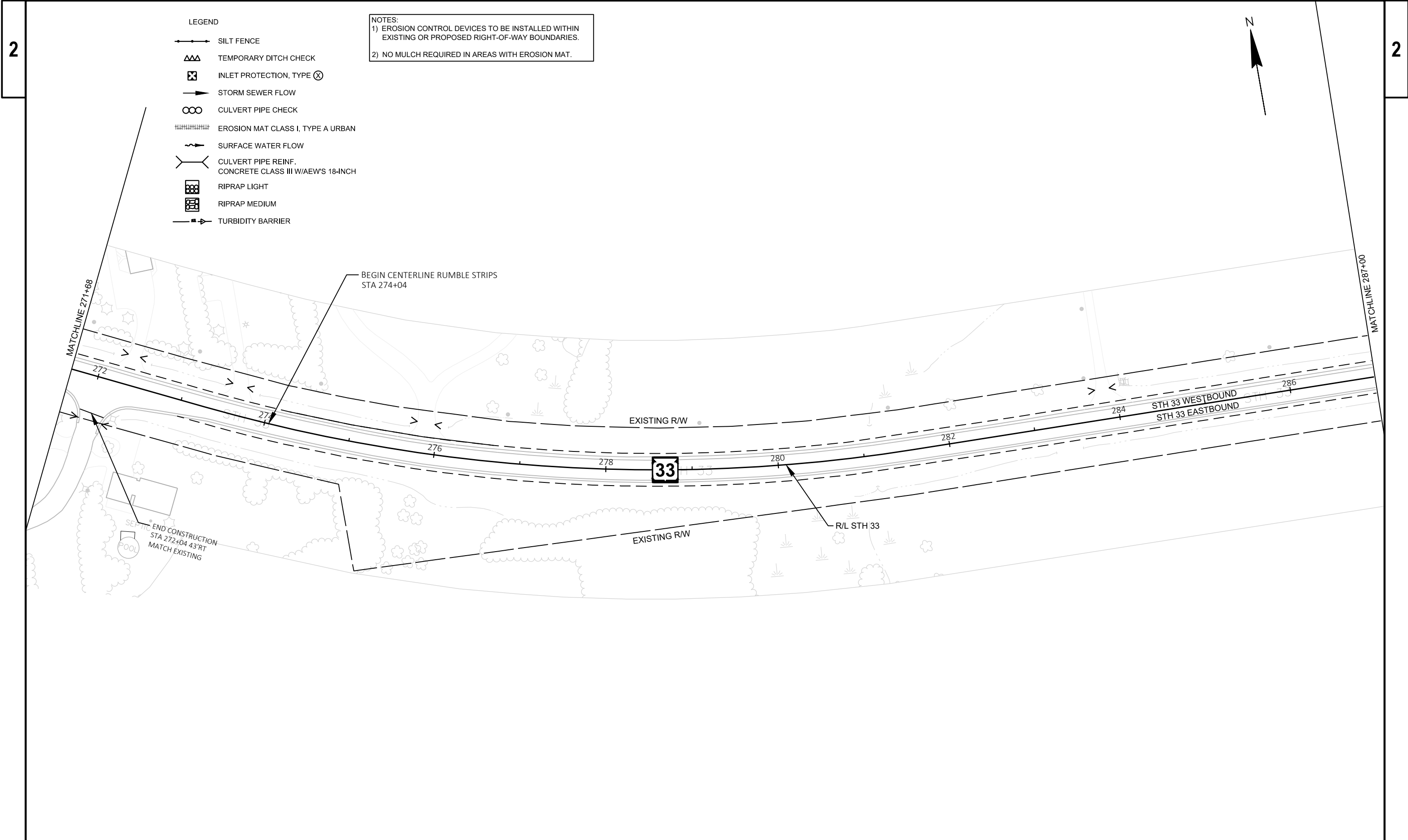
WISDOT/CADDS SHEET 42





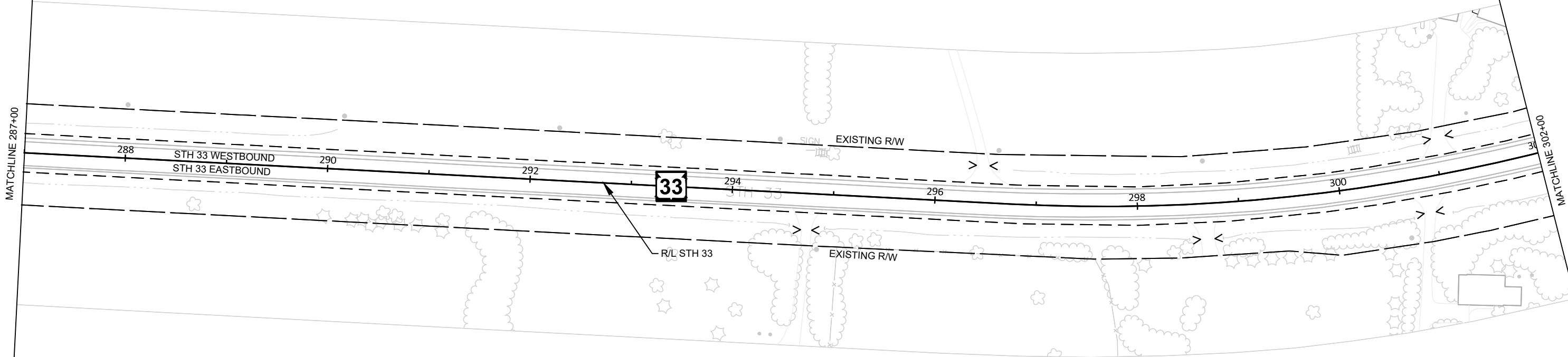


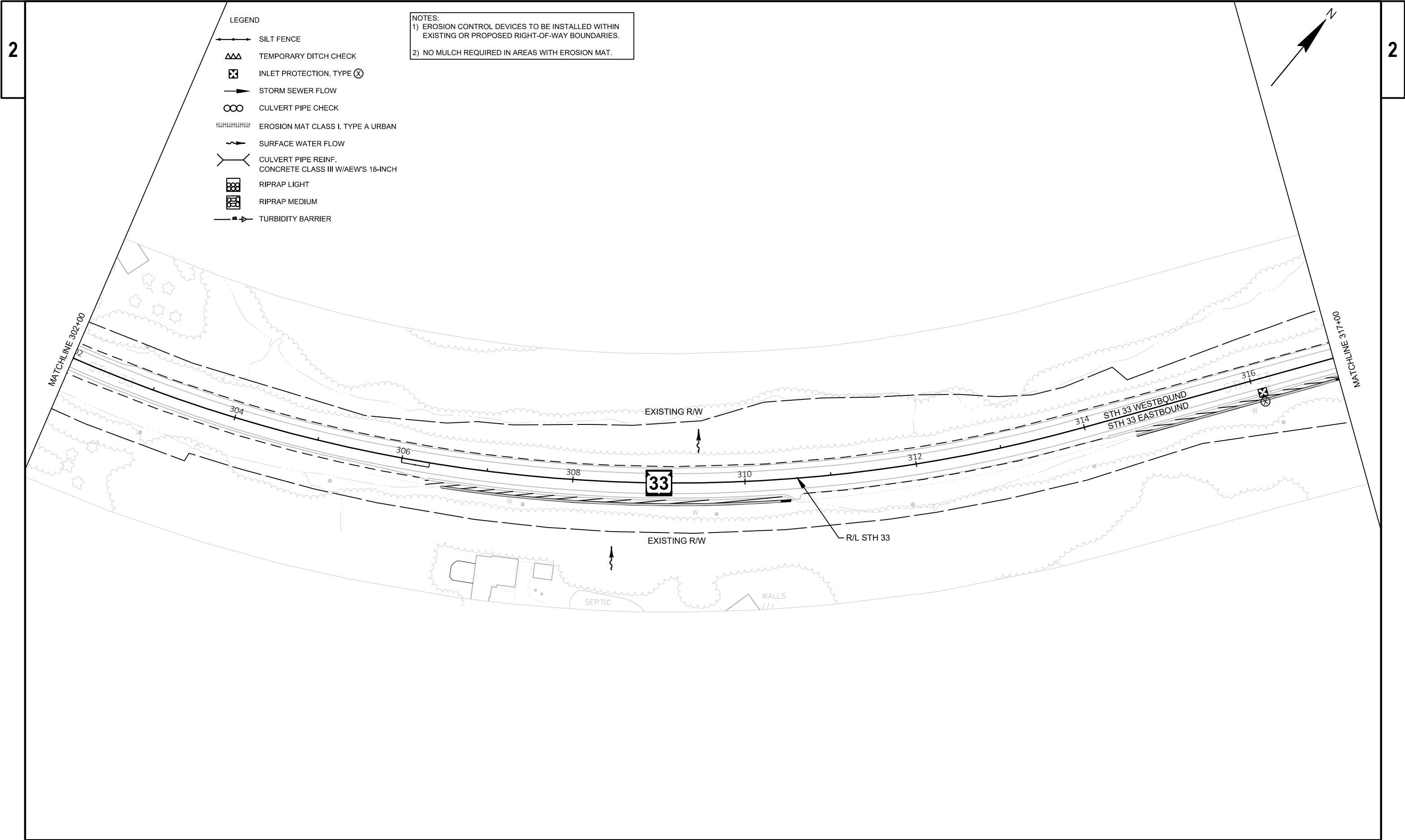


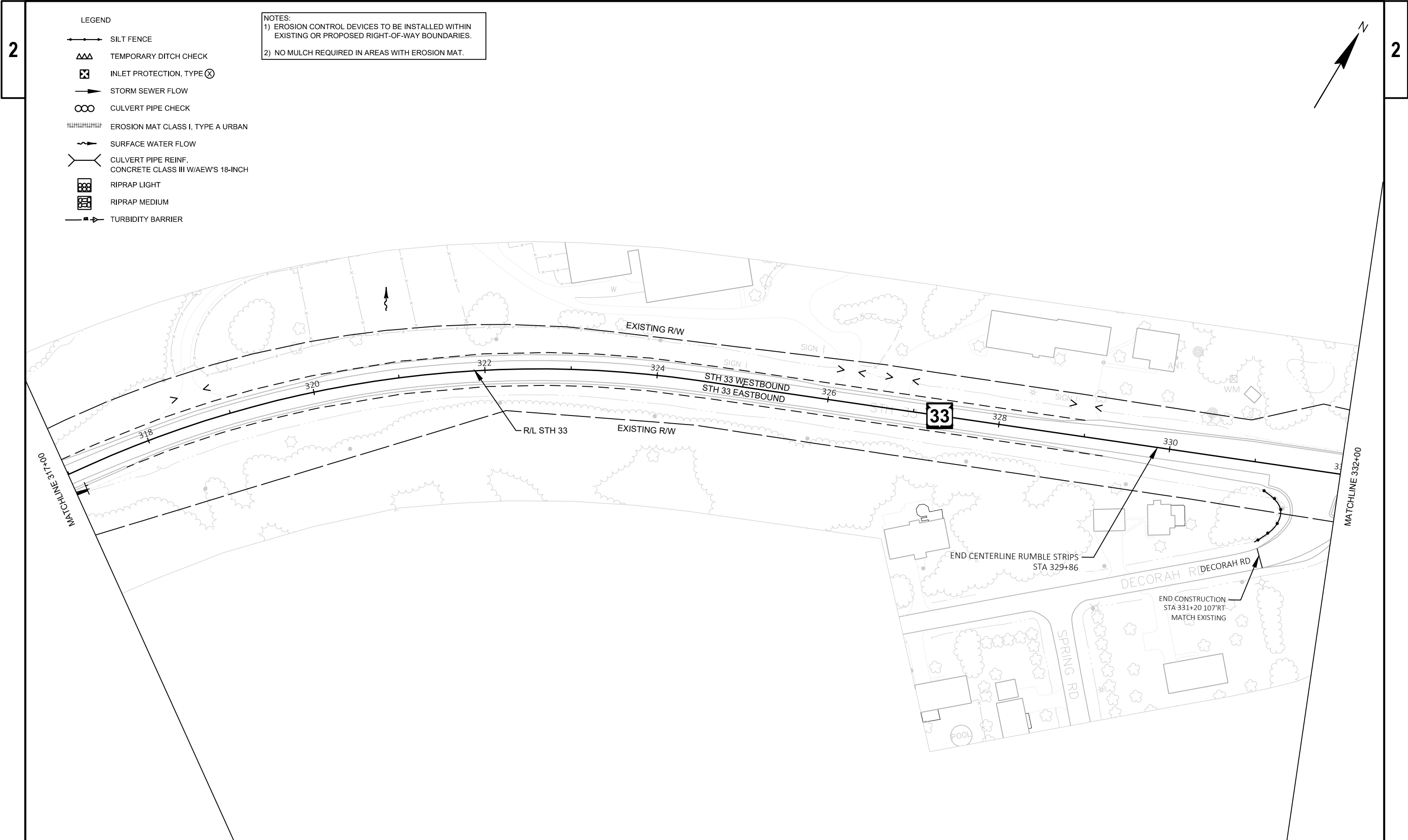


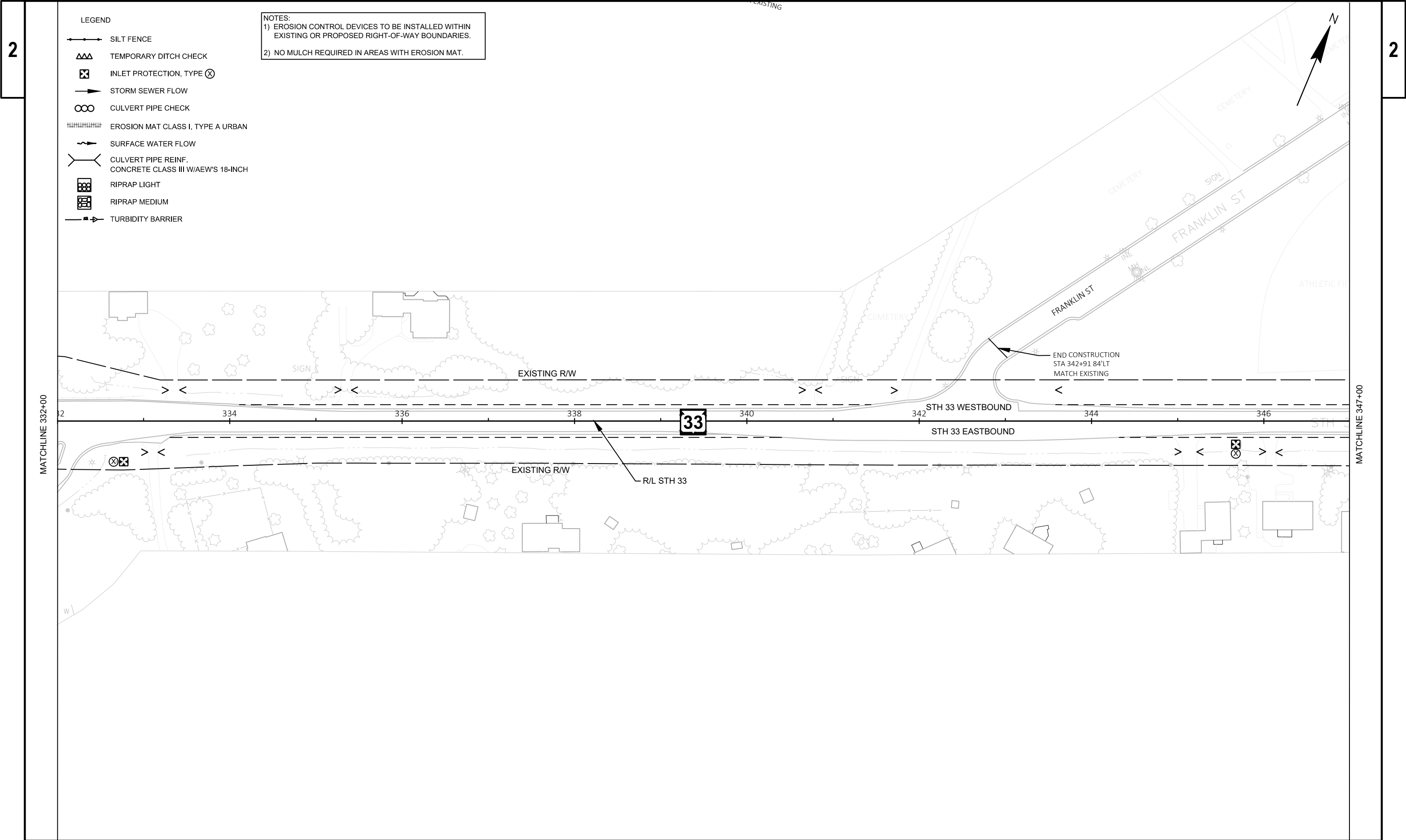
- LEGEND
- SILT FENCE
 - TEMPORARY DITCH CHECK
 - INLET PROTECTION, TYPE X
 - STORM SEWER FLOW
 - CULVERT PIPE CHECK
 - EROSION MAT CLASS I, TYPE A URBAN
 - SURFACE WATER FLOW
 - CULVERT PIPE REINF. CONCRETE CLASS III W/AEW'S 18-INCH
 - RIPRAP LIGHT
 - RIPRAP MEDIUM
 - TURBIDITY BARRIER

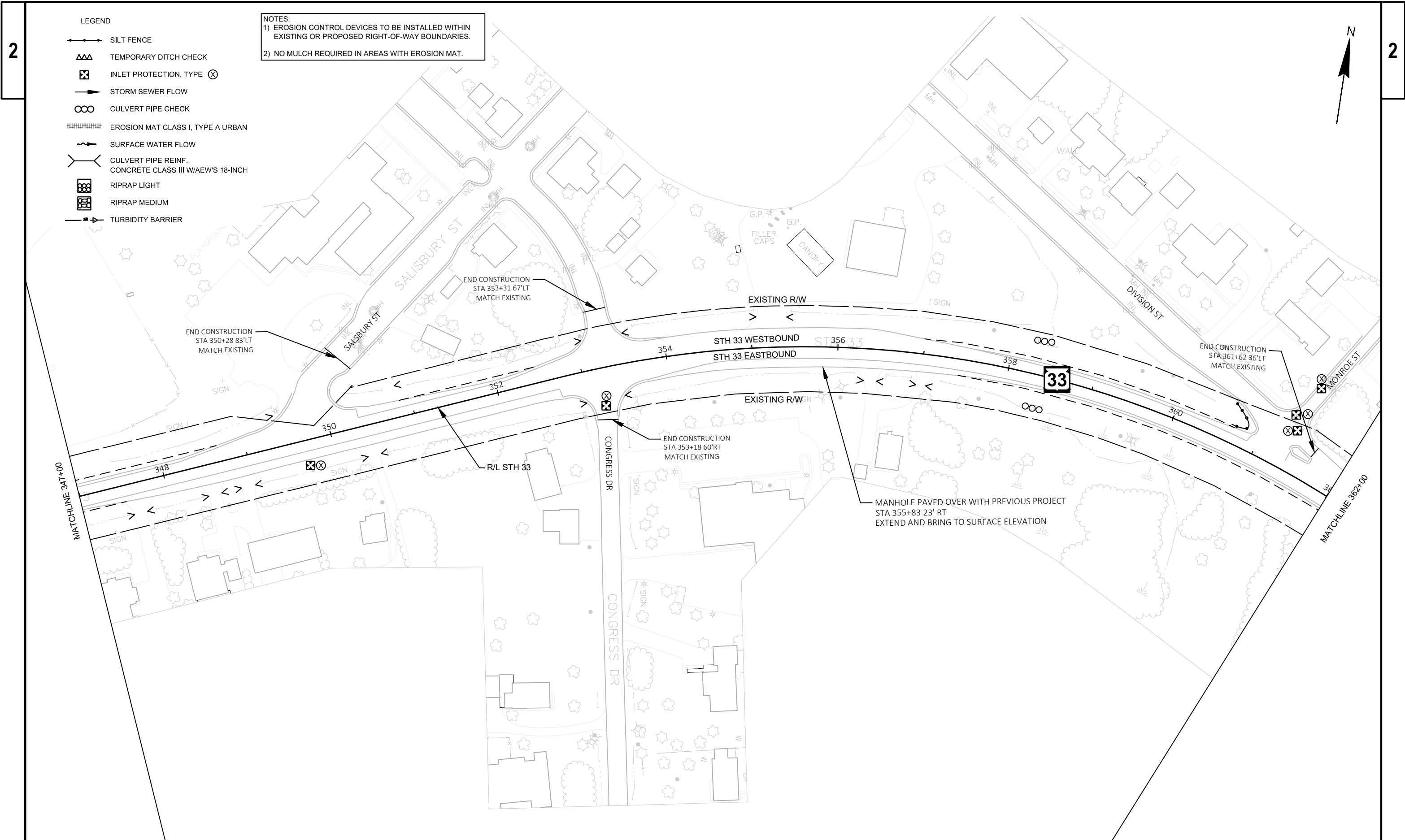
NOTES:
1) EROSION CONTROL DEVICES TO BE INSTALLED WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY BOUNDARIES.
2) NO MULCH REQUIRED IN AREAS WITH EROSION MAT.

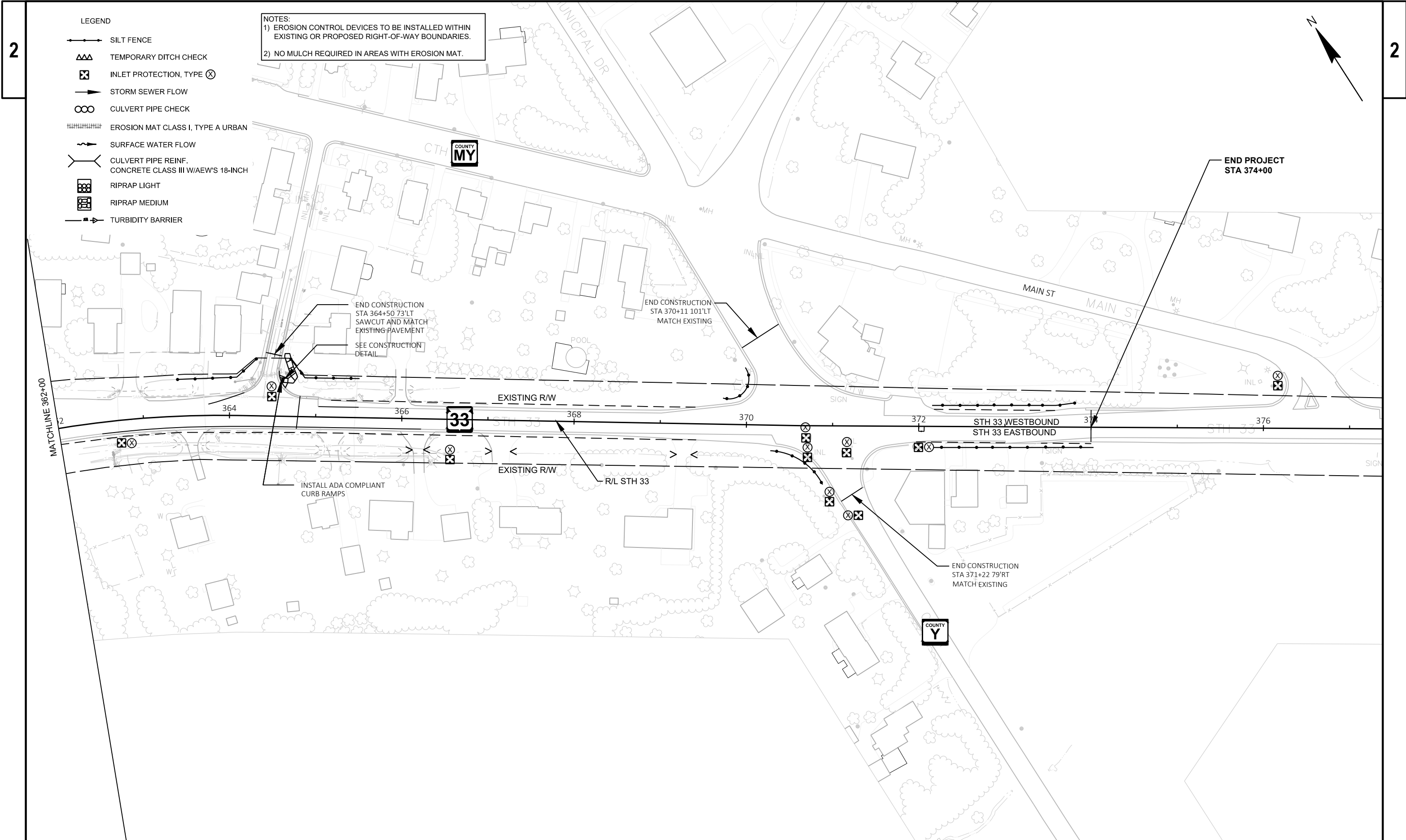








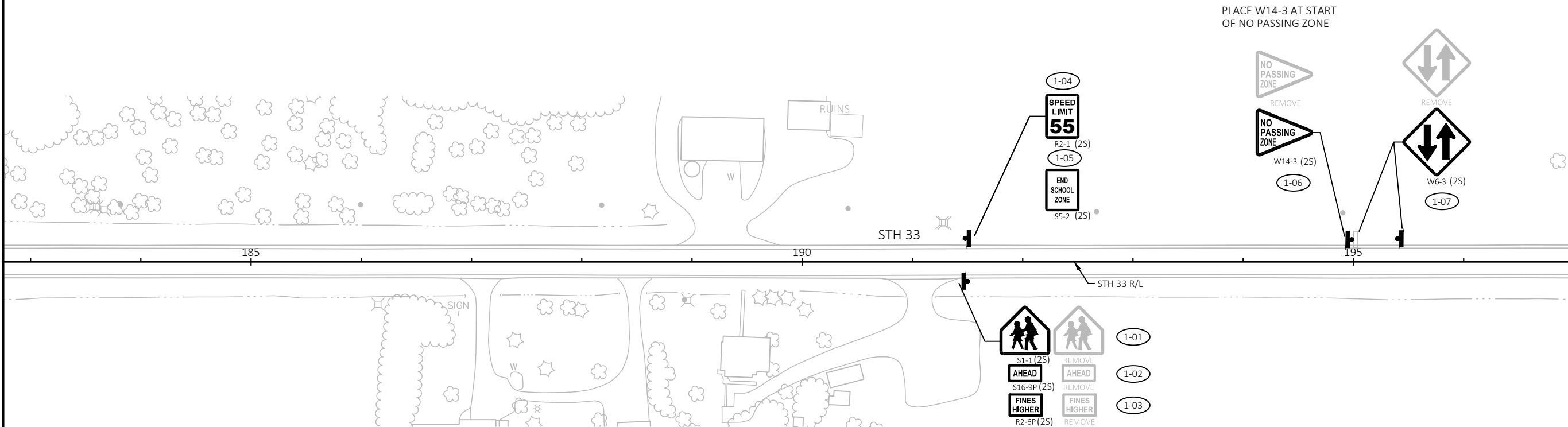




LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- DENOTES SIGN NUMBER
- SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)

N



MATCH LINE 197+00

NOTES:
TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTIES	PHONE#
BREE JOHNS-KONKEL	MILWAUKEE, WASHINGTON, OZAUKEE, RACINE	414-266-1171
CHUCK SALDIVAR	WALWORTH, WAUKESHA, KENOSHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

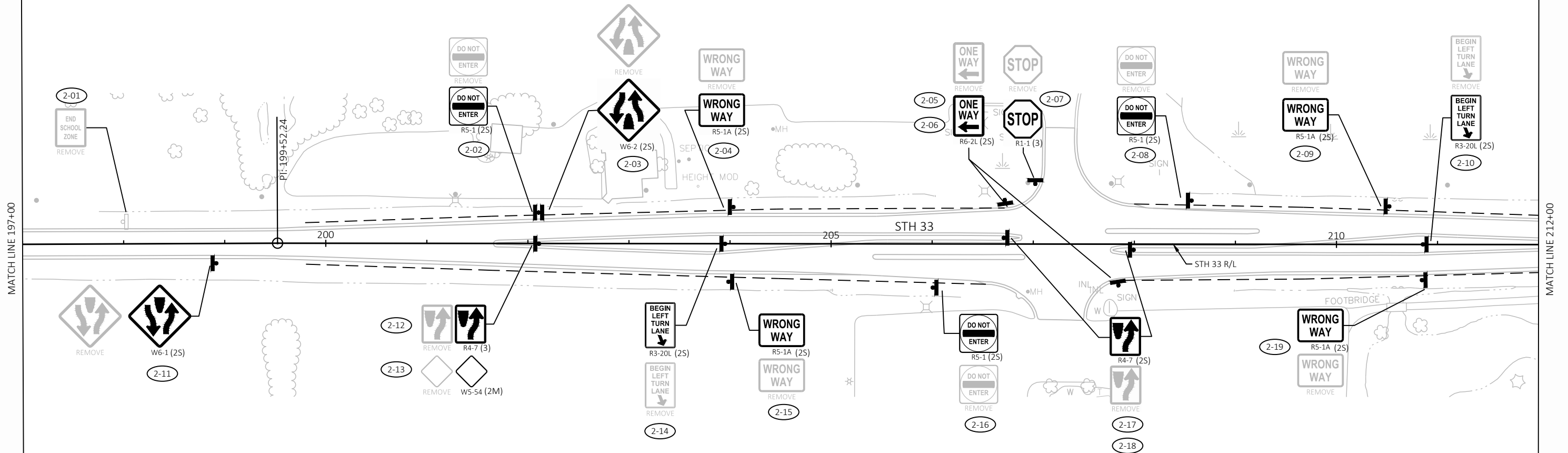
WOOD POST SIZES FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAMES SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

SHEET 1 OF 14

LEGEND

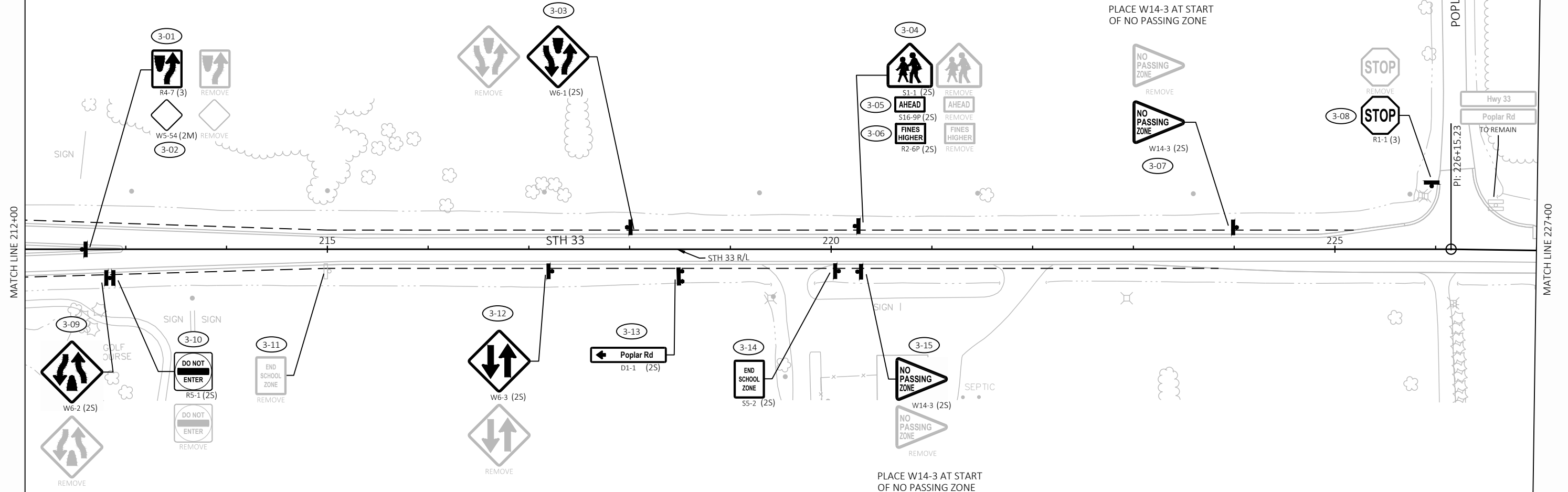
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- DENOTES SIGN NUMBER
- SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)



LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
-  EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
-  PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  DENOTES SIGN NUMBER
-  SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)



SHEET 3 OF 14

PROJECT NO: 1410-00-73

HWY: STH 33

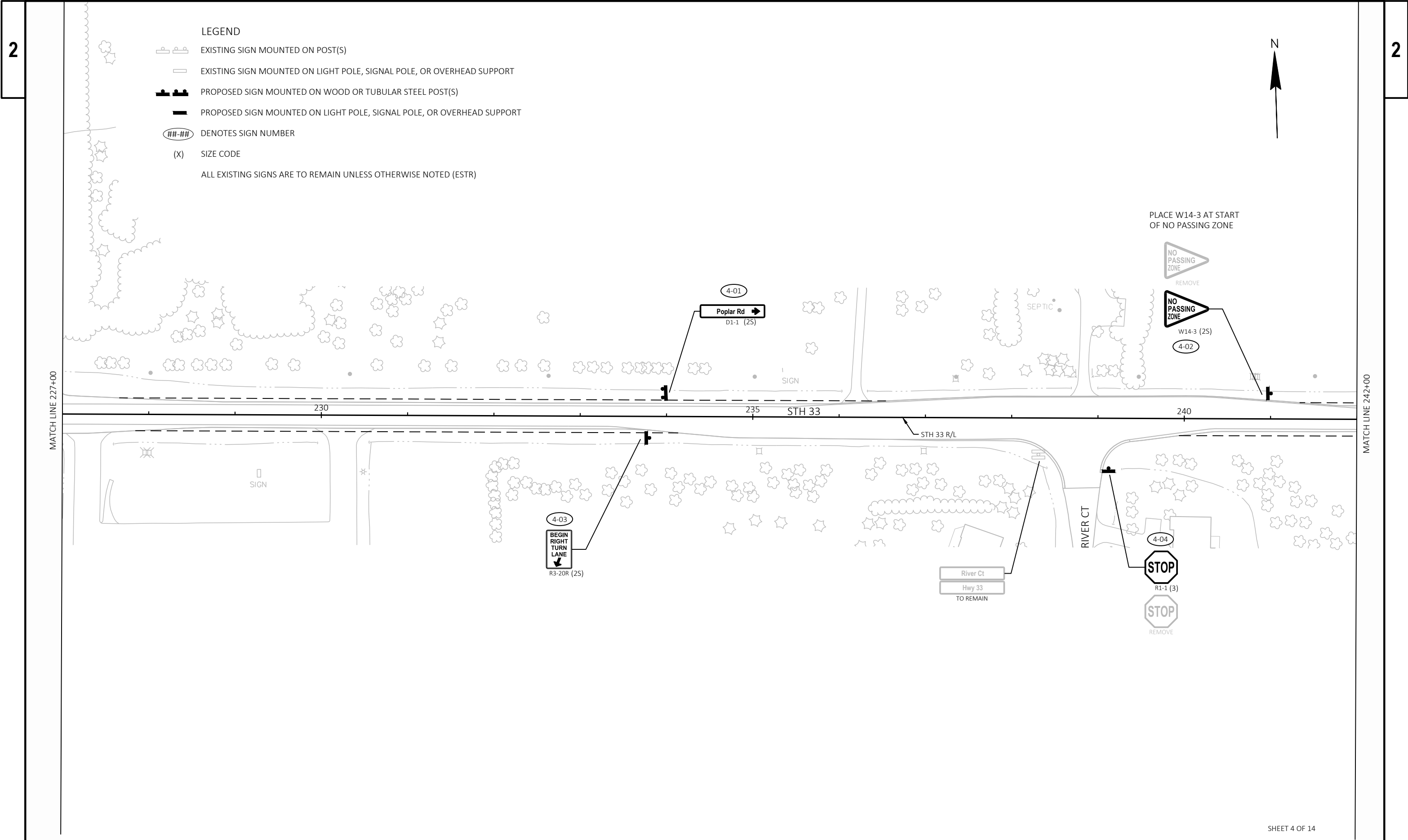
COUNTY: WASHINGTON

PERMANENT SIGNING

SHEET

43

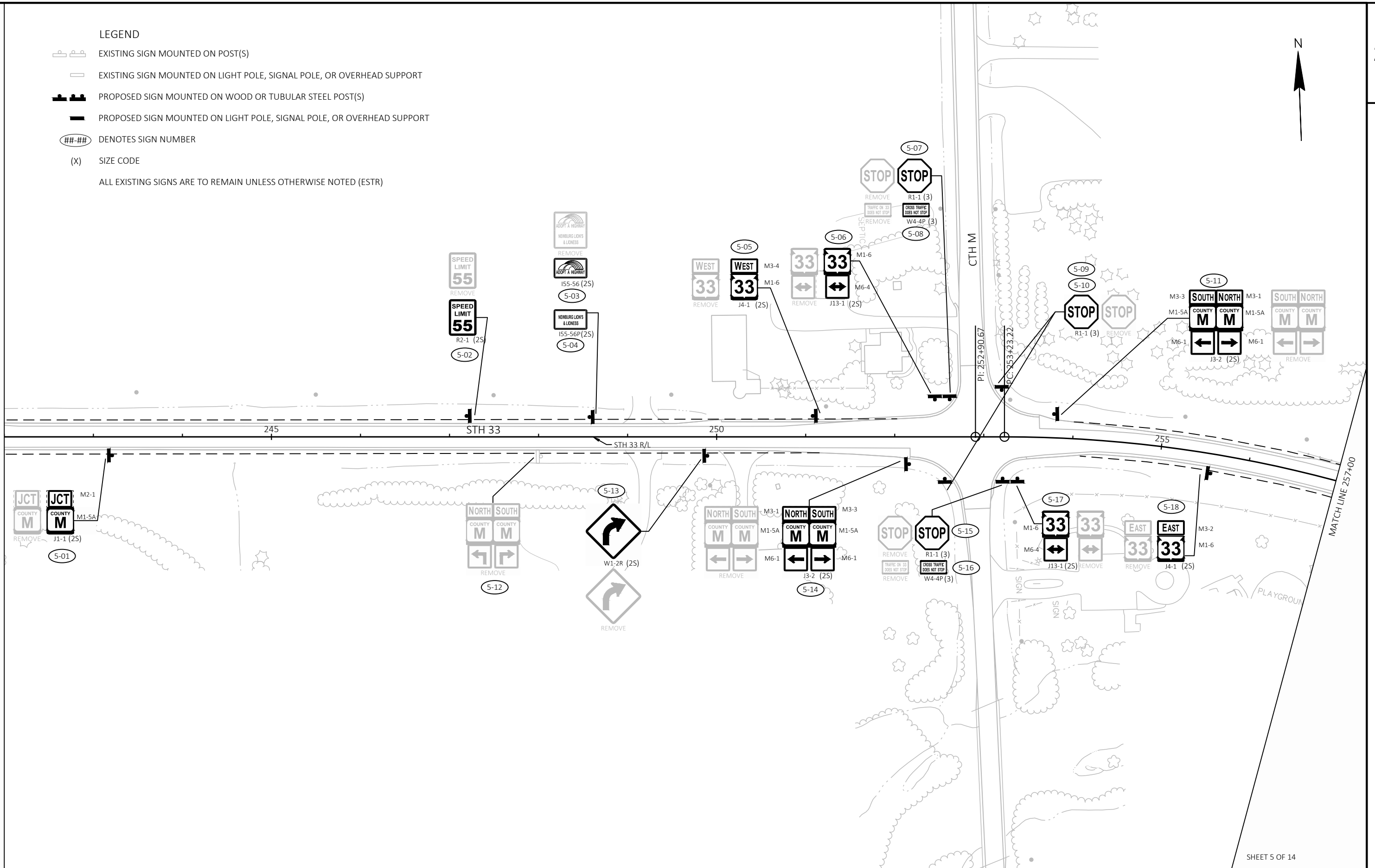
E



LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
-  EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
-  PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)

MATCH LINE 242+00



MATCH LINE 257+00

SHEET 5 OF 14

PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

PERMANENT SIGNING

SHEET

45

E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\14100003\SHEETS\023201-PS.DWG
LAYOUT NAME - 05

PLOT DATE : 7/18/2024 2:56 PM

PLOT BY : JOHNSON, BRENDEN

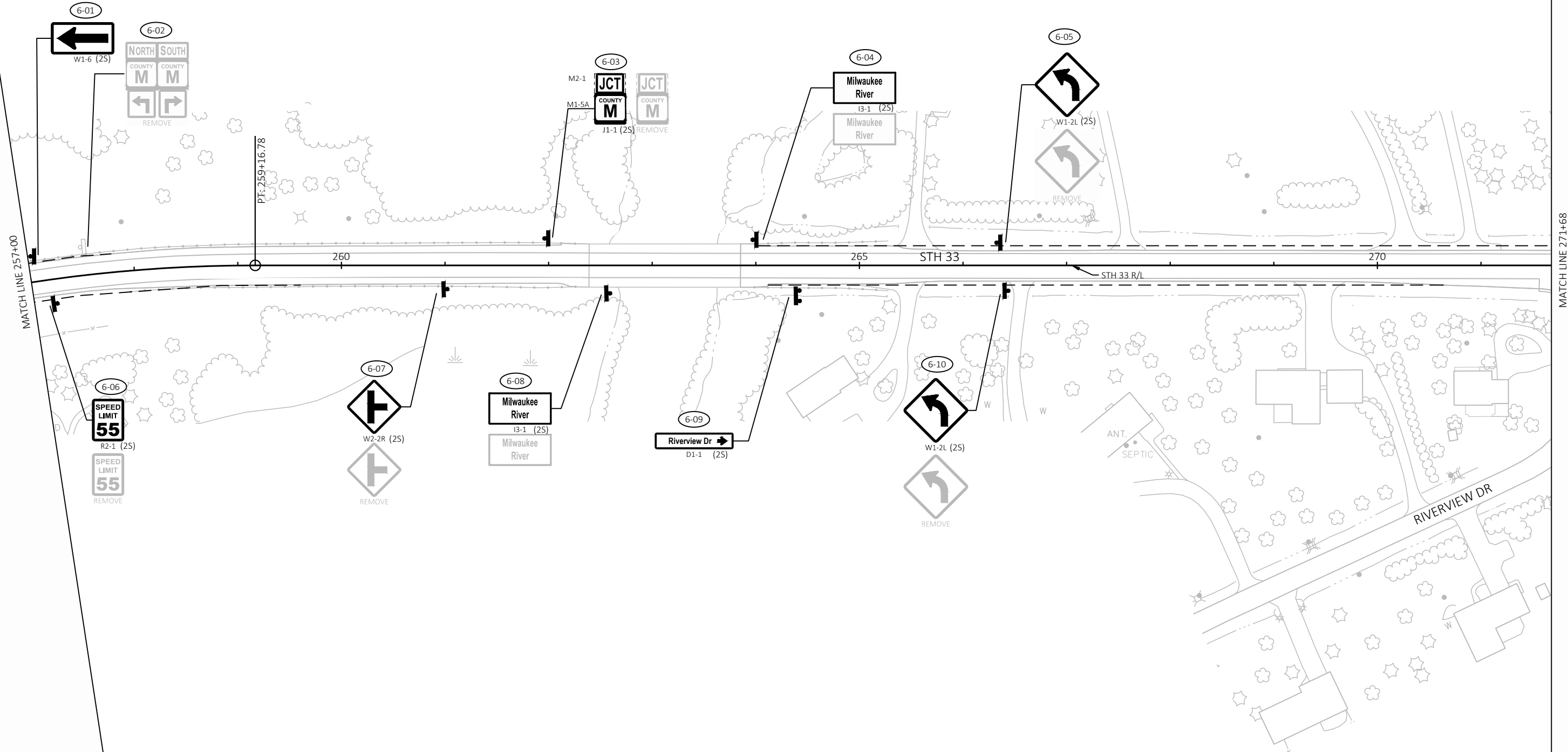
PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 42

LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
-  EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
-  PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)



SHEET 6 OF 14

PROJECT NO: 1410-00-73

HWY: STH 33

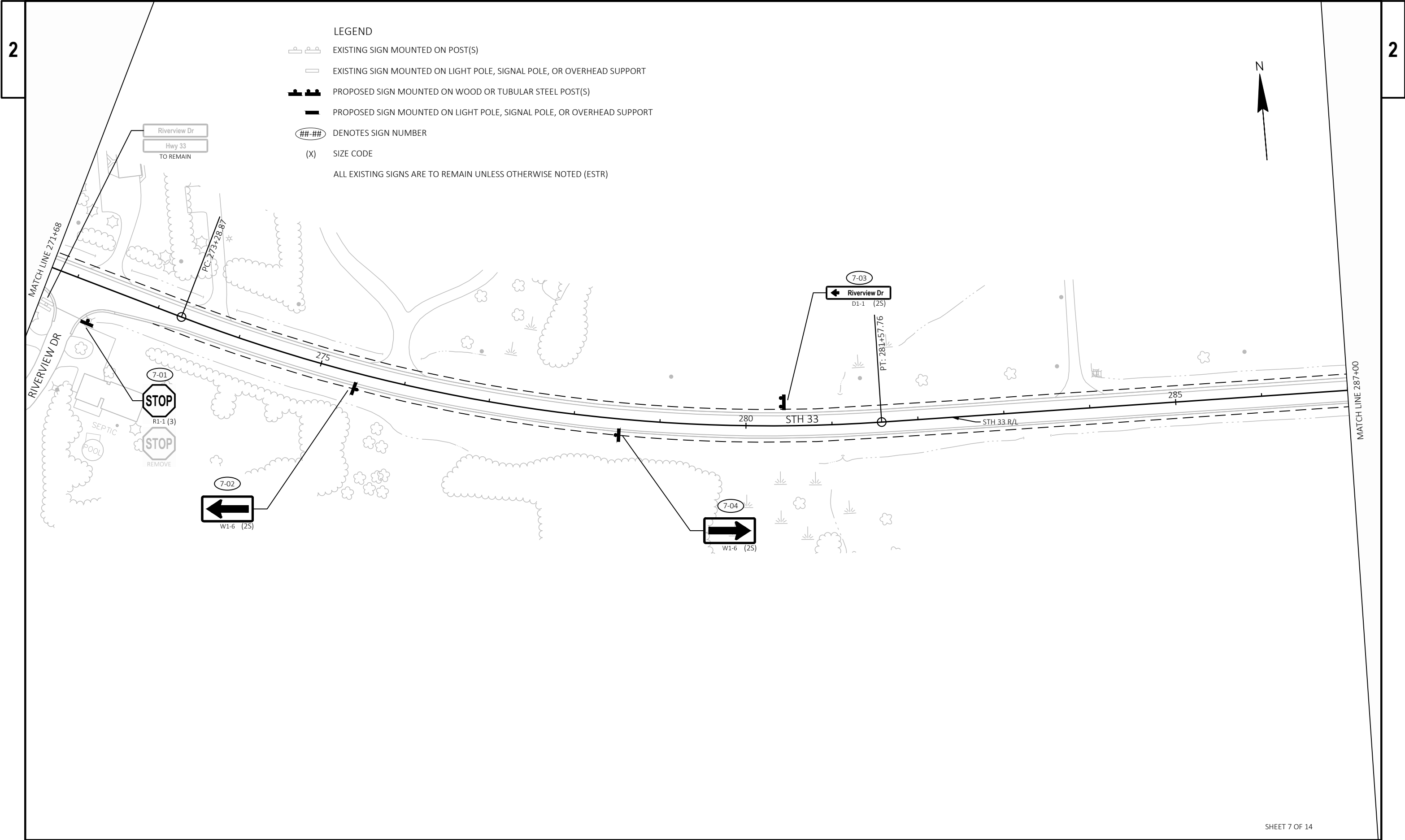
COUNTY: WASHINGTON

PERMANENT SIGNING

SHEET

46

E

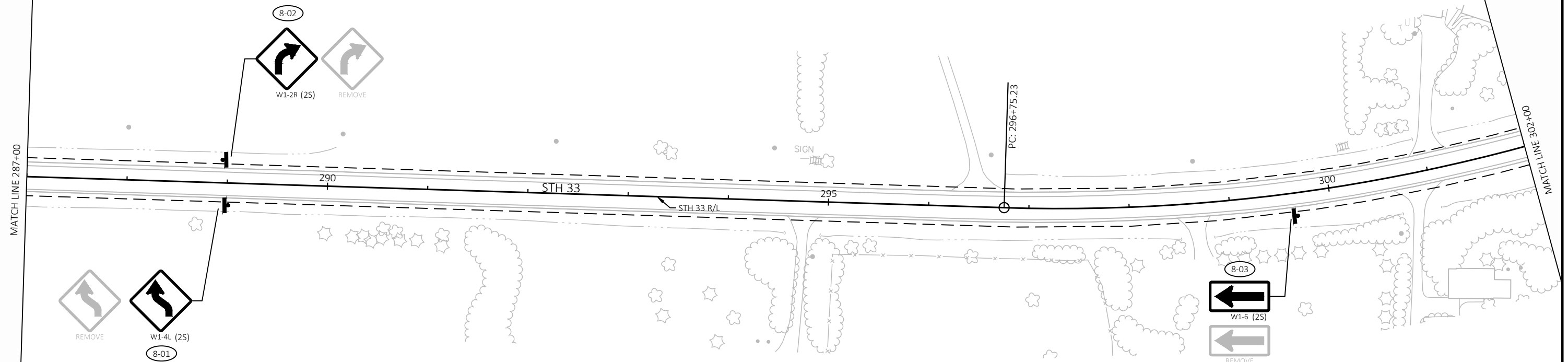


2

2 |

LEGEND

- | | |
|---|---|
|  | EXISTING SIGN MOUNTED ON POST(S) |
|  | EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT |
|  | PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S) |
|  | PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT |
|  | DENOTES SIGN NUMBER |
| (X) | SIZE CODE |
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)



SHEET 8 OF 14

PROJECT NO:	1410-00-73
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HWY: STH 33

COUNTY: WASHINGTON

PERMANENT SIGNING

SHEET

48

■

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\14100003\SHEETS\023201-PS.DWG
LAYOUT NAME - 08

PLOT DATE : 7/18/2024 2:57 PM

PLOT BY : JOHNSON, BRENDEN

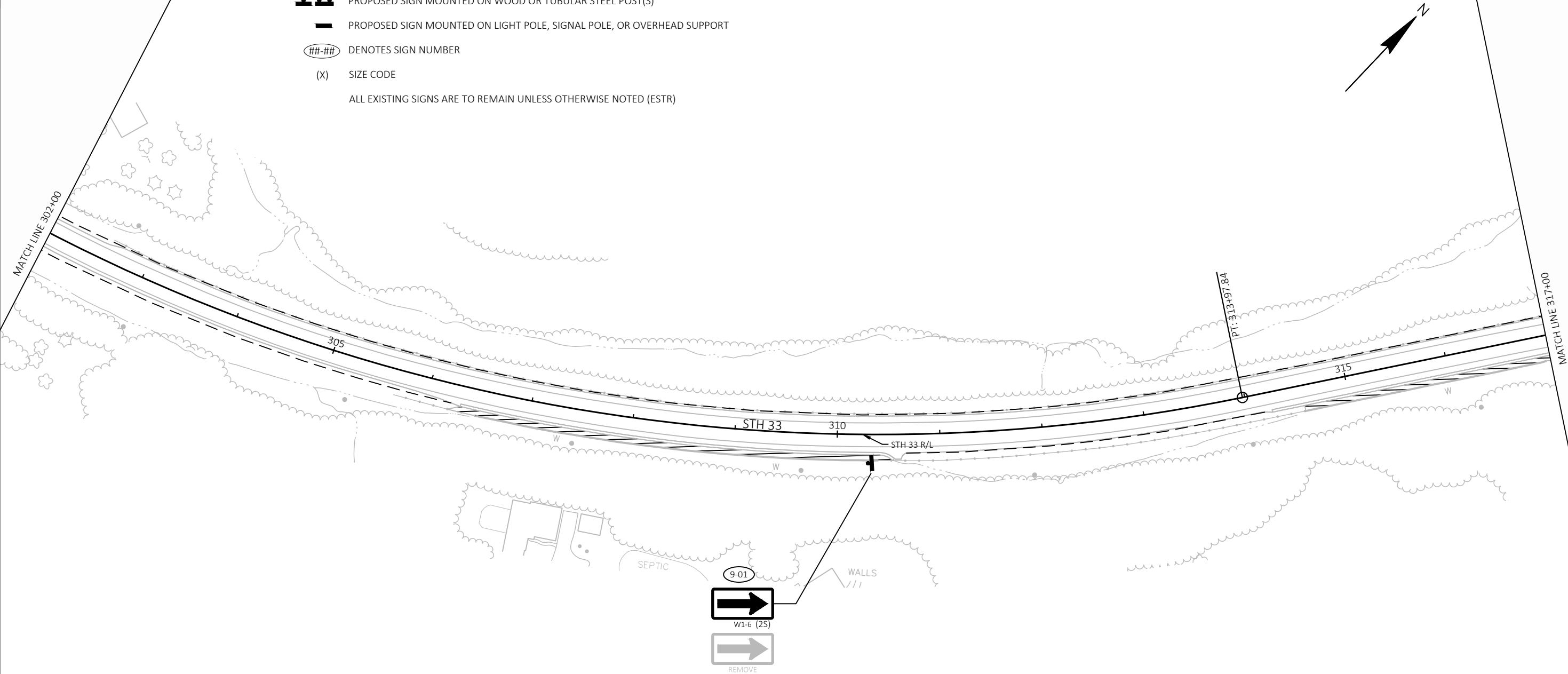
PLOT NAME :

PLOT SCALE : 1 IN:100 FT

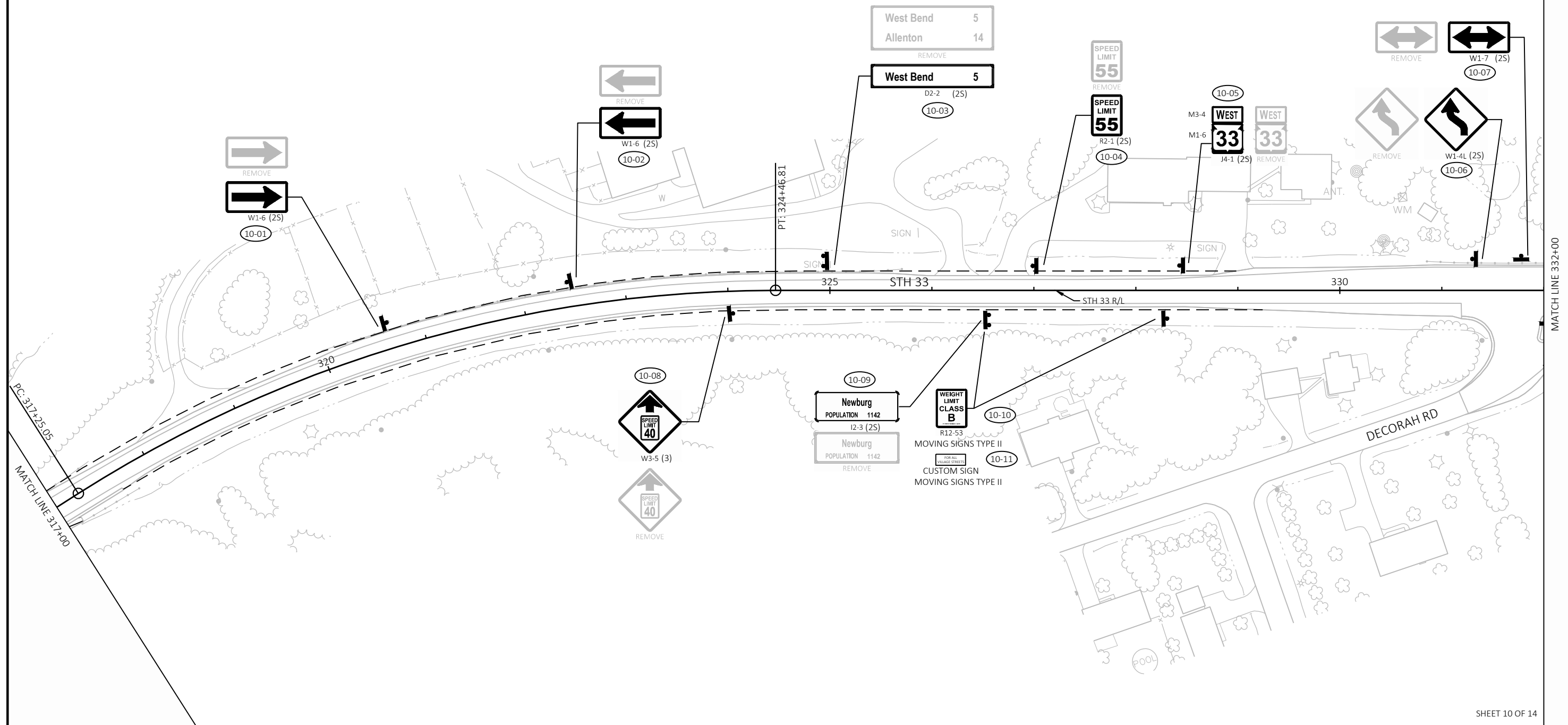
WISDOT/CADDS SHEET 42

LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
 -  EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
 -  PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
 -  PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
 -  DENOTES SIGN NUMBER
 -  (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)



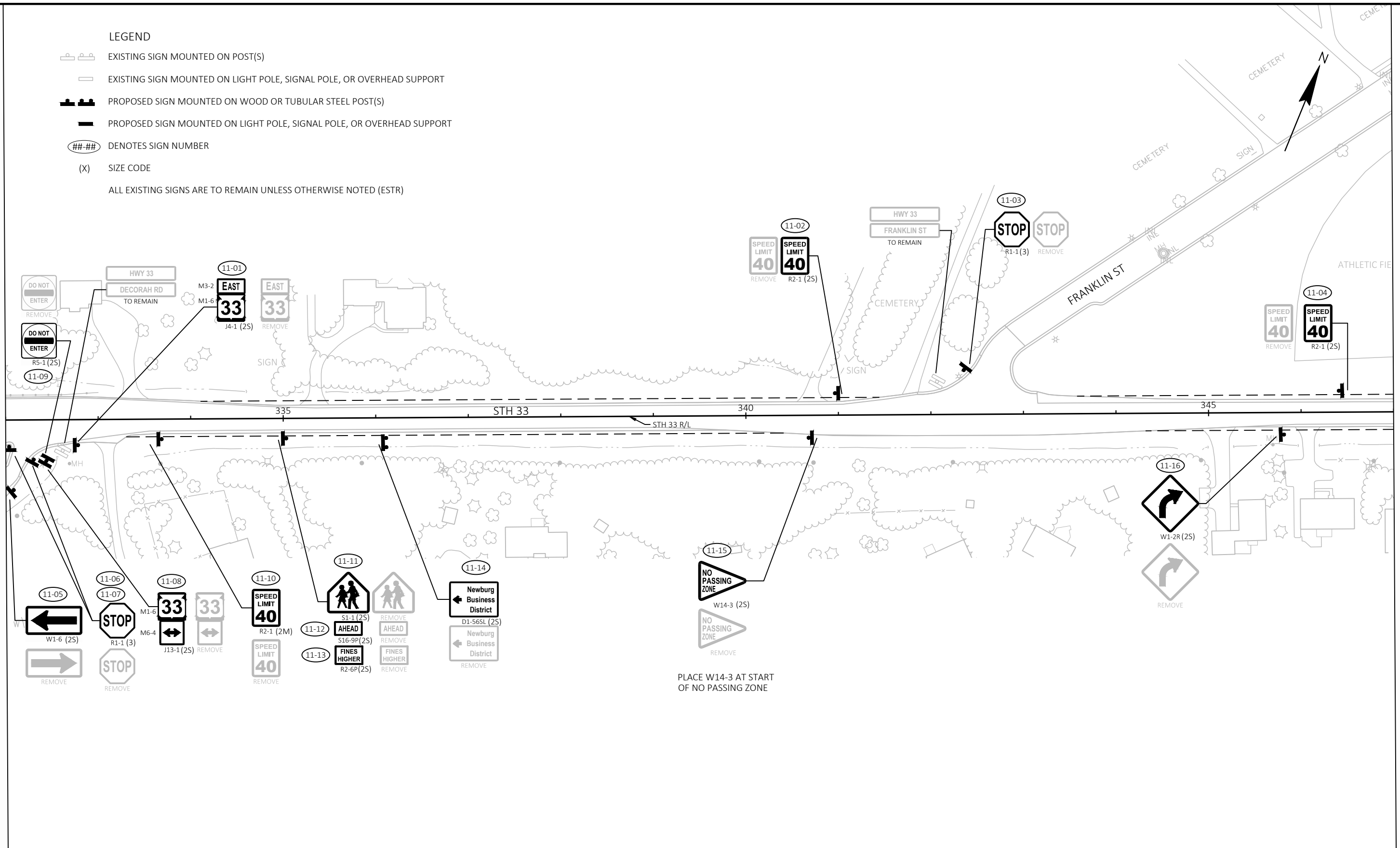
	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
	PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
	PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
	DENOTES SIGN NUMBER
(X)	SIZE CODE
ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)	



LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
-  EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
-  PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  DENOTES SIGN NUMBER
-  (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)

MATCH LINE 332+00



MATCH LINE 347+00

SHEET 11 OF 14

PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

PERMANENT SIGNING

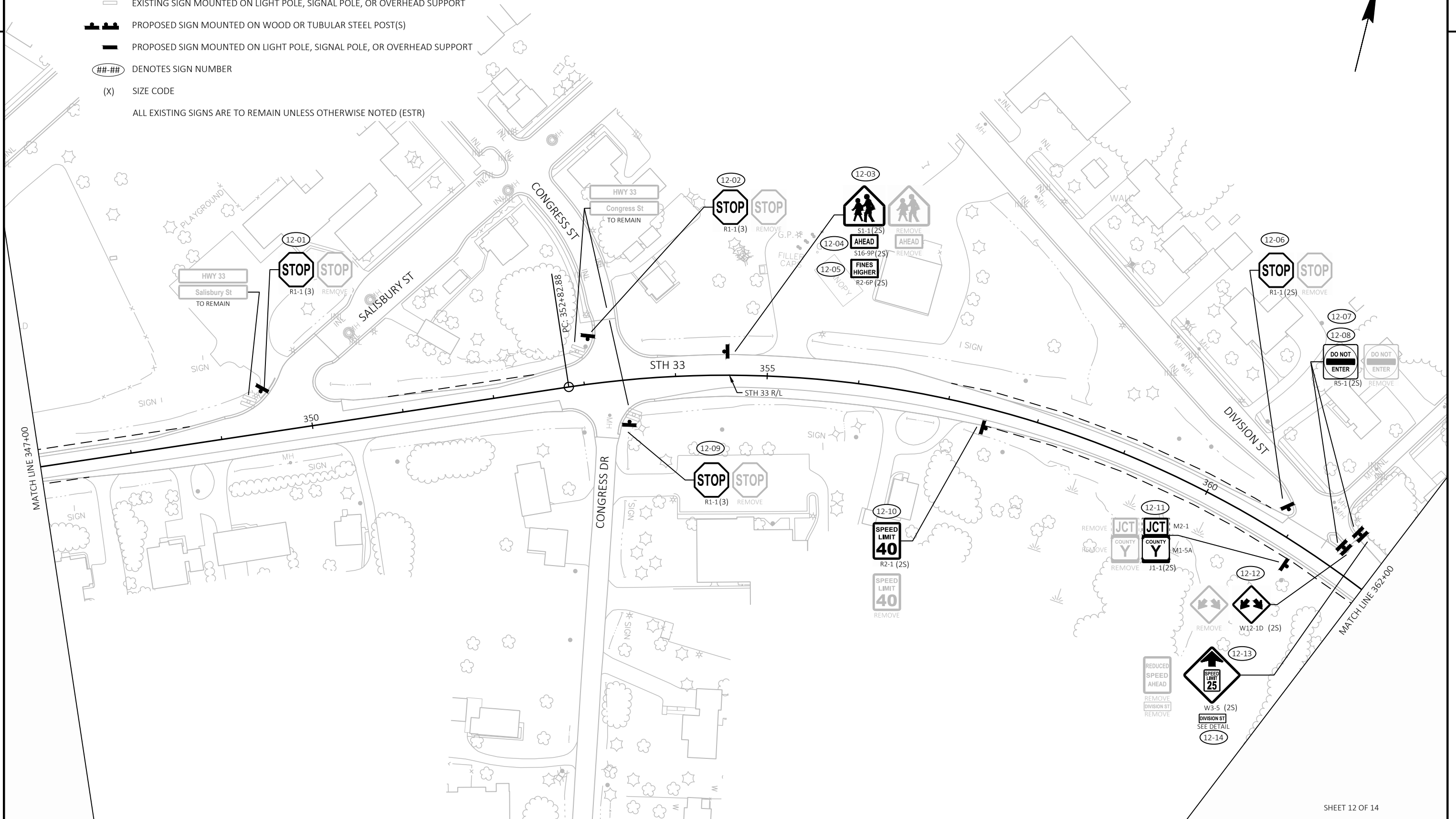
SHEET

51

E

LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
-  EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
-  PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
-  DENOTES SIGN NUMBER
-  (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED (ESTR)



SHEET 12 OF 14

PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

PERMANENT SIGNING

SHEET

52

E

FILE NAME: \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\14100003\SHEETS\023201-PS.DWG
LAYOUT NAME - 12

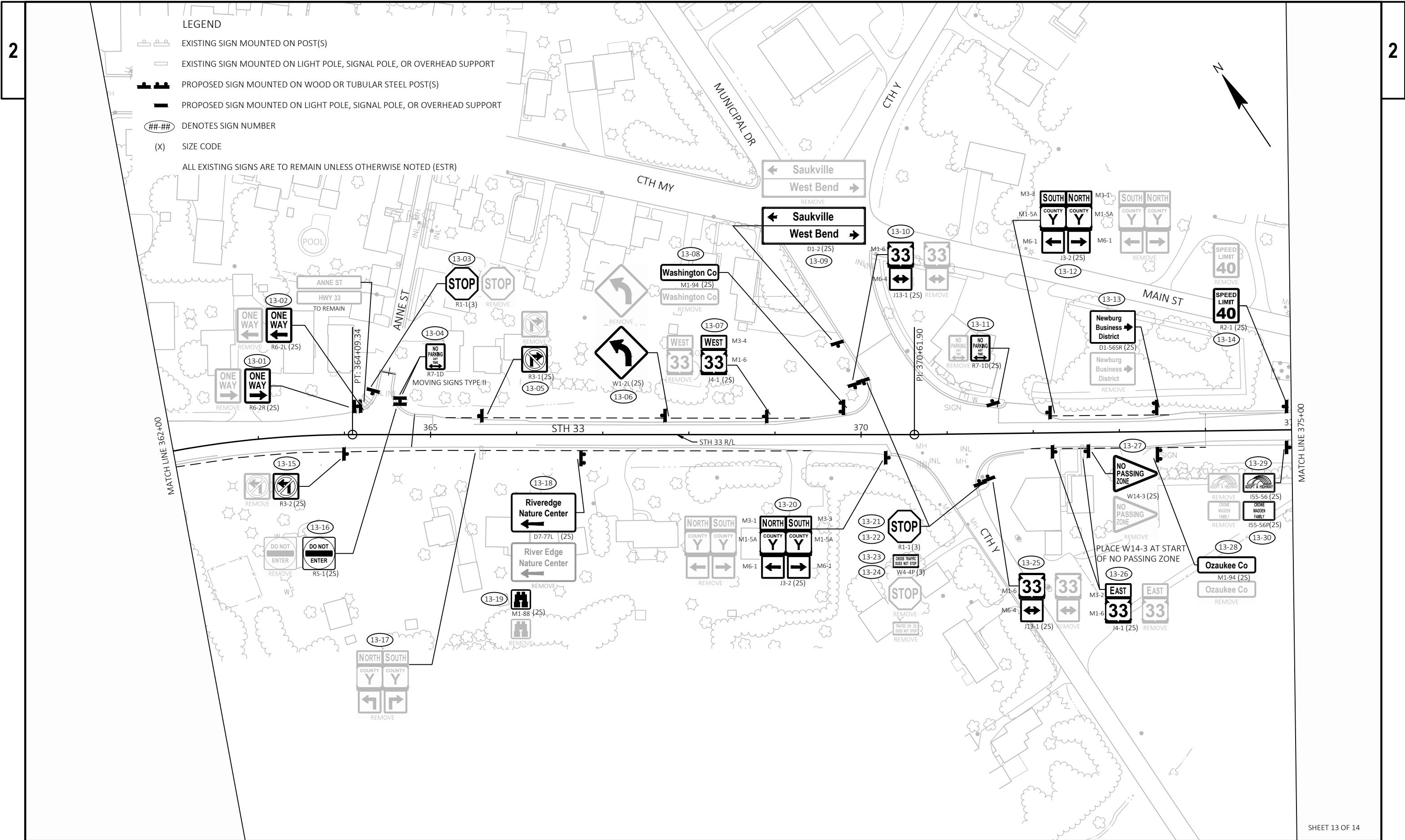
PLOT DATE: 7/18/2024 2:57 PM

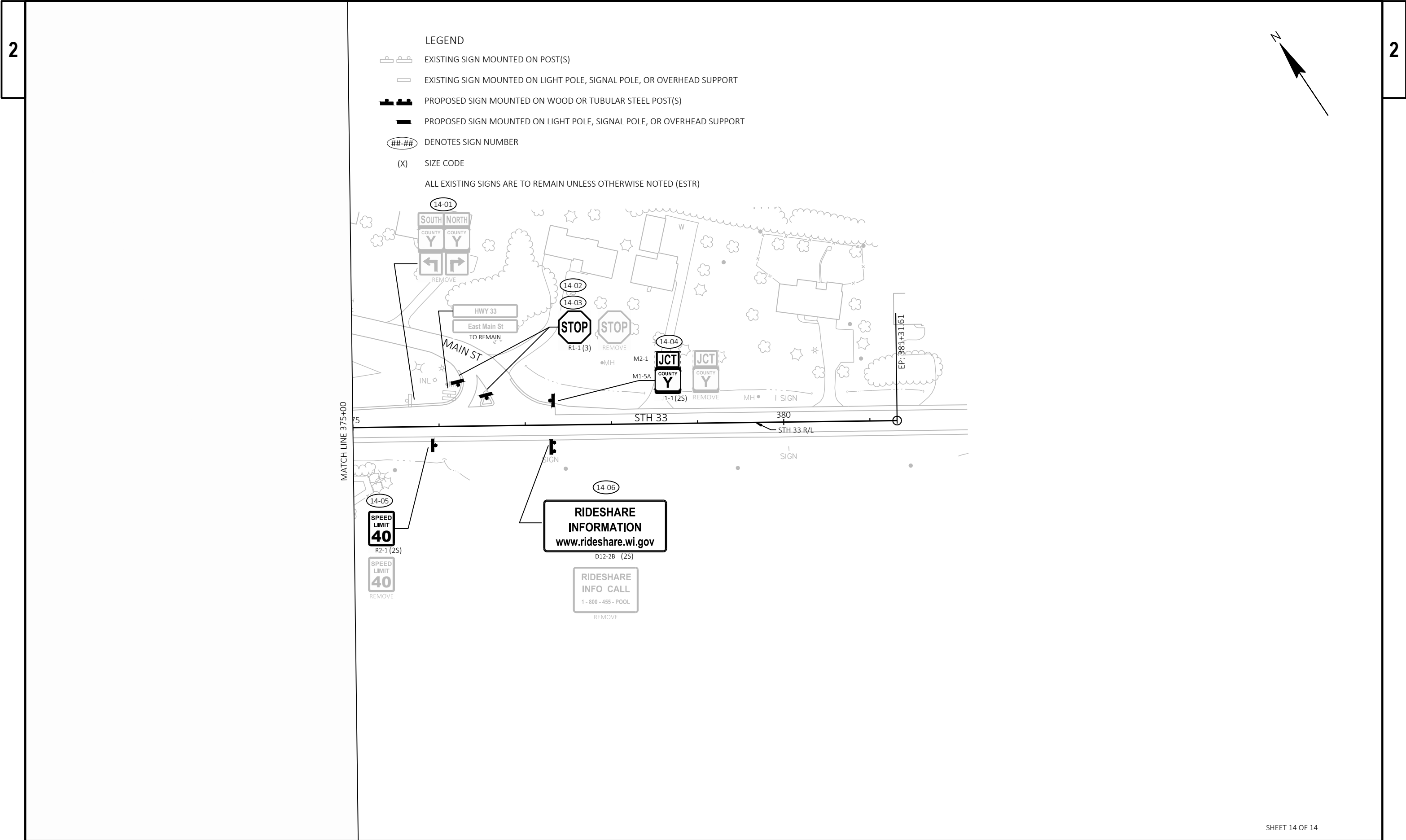
PLOT BY: JOHNSON, BRENDEN

PLOT NAME:

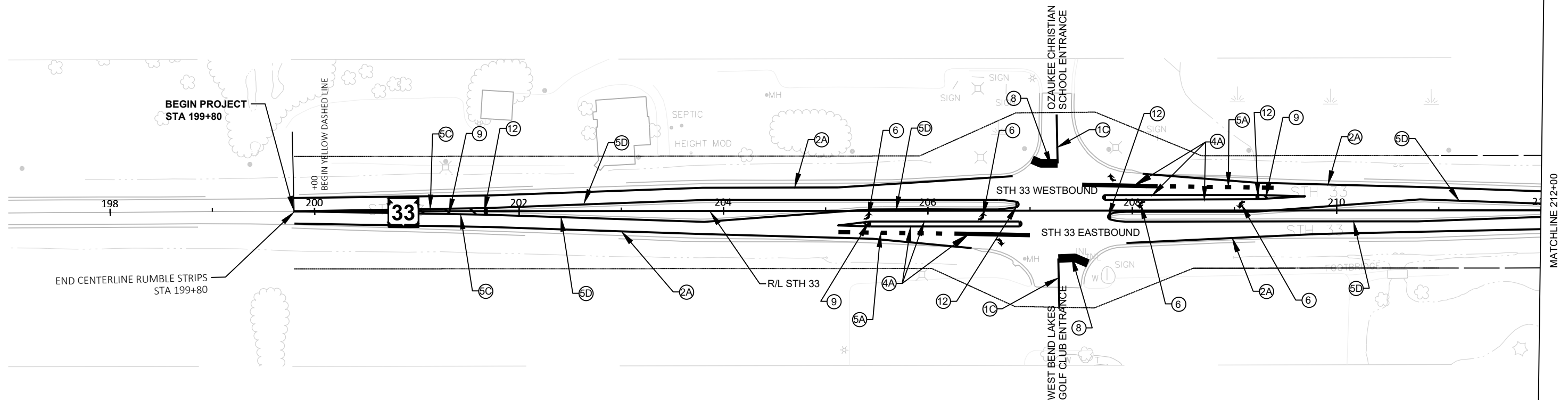
PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42





NOTES:
1) LOG EXISTING NO PASSING ZONES PRIOR TO MILLING AND MARK CENTERLINE SAME AS EXISTING.
2) STOP BARS SHOULD BE MAINTAINED THROUGH THE DURATION OF THE PROJECT.
3) EXACT LOCATION OF STOPBAR PER SE REGION STOPBAR DETAIL.

**LEGEND**

- | | | |
|---|--|---|
| ①A MARKING LINE EPOXY 6-INCH (WHITE) | ④A MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE) | ⑥ MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED) |
| ①B MARKING LINE EPOXY 6-INCH (YELLOW), SEE NOTE 1 | ⑤A MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE 9' SKIP) | ⑦ MARKING WORD EPOXY |
| ①C MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW) | ⑤B MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 3' LINE 9' SKIP) | ⑧ MARKING STOP LINE EPOXY 18-INCH |
| ①D MARKING LINE EPOXY 4-INCH (YELLOW) | ⑤C MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW) | ⑨ MARKING DIAGONAL EPOXY 12-INCH |
| ②A MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) | ⑤D MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) | ⑩ MARKING CHEVRON EPOXY 6-INCH |
| ③A MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP) | | ⑪ MARKING CURB EPOXY |
| | | ⑫ MARKING ISLAND NOSE EPOXY |

PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

PAVEMENT MARKING

SHEET

55

E

FILE NAME : \\192.168.100.11\TITANIC GOLD\ENGINEERING\2020\CURRENT PROJECTS\202008-TE-STH 33\C3D-TOK\STH_33 60%\SHEETSP\PLAN\0220_01-PM_3-27-2023.DWG
LAYOUT NAME - 01A PAVEMENT MARKING

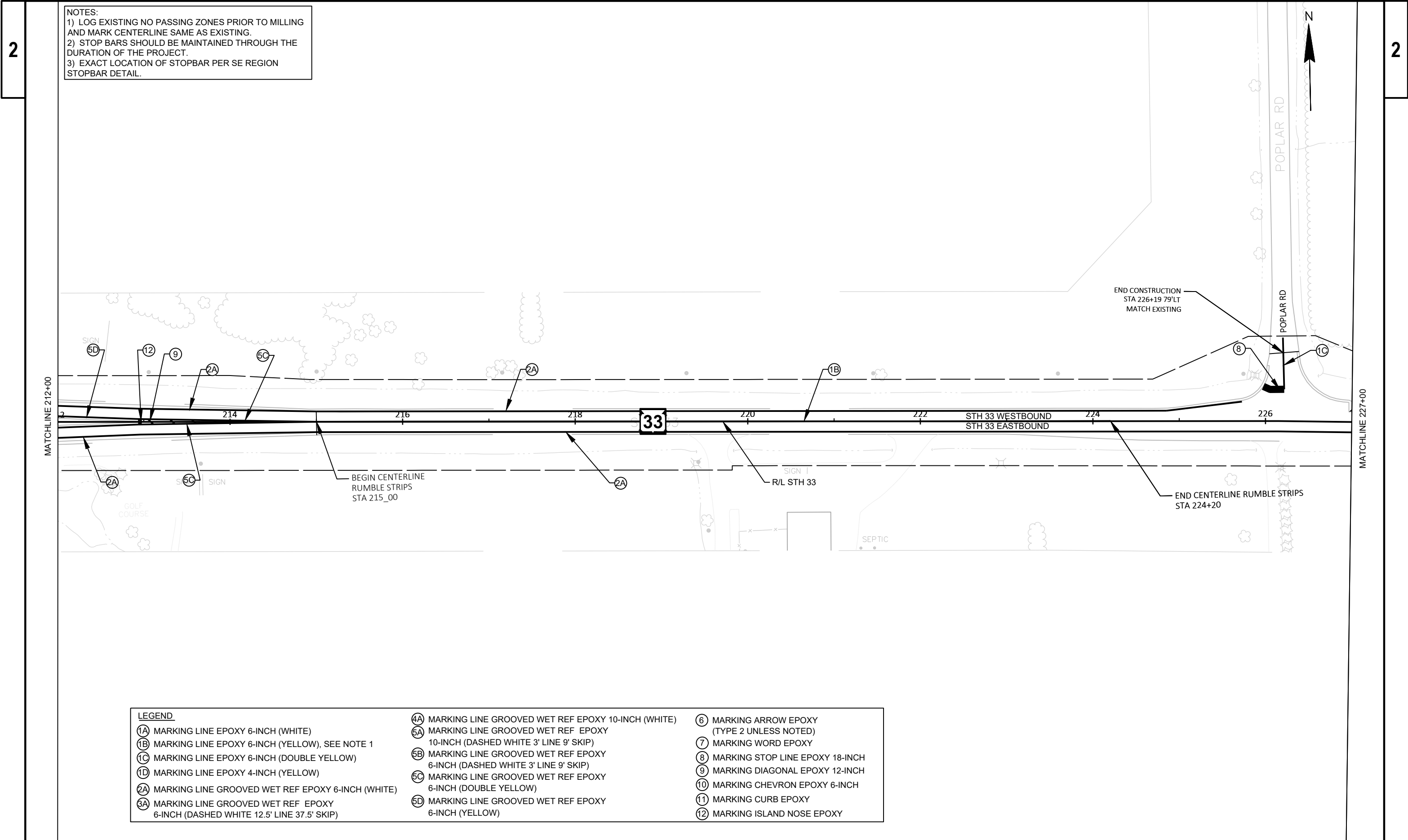
PLOT DATE : 10/14/2024 12:30 PM

PLOT BY : PATRICIA ROEPER.

PLOT NAME :

PLOT SCALE : 1 IN=100 FT

WISDOT/CADDs SHEET 42

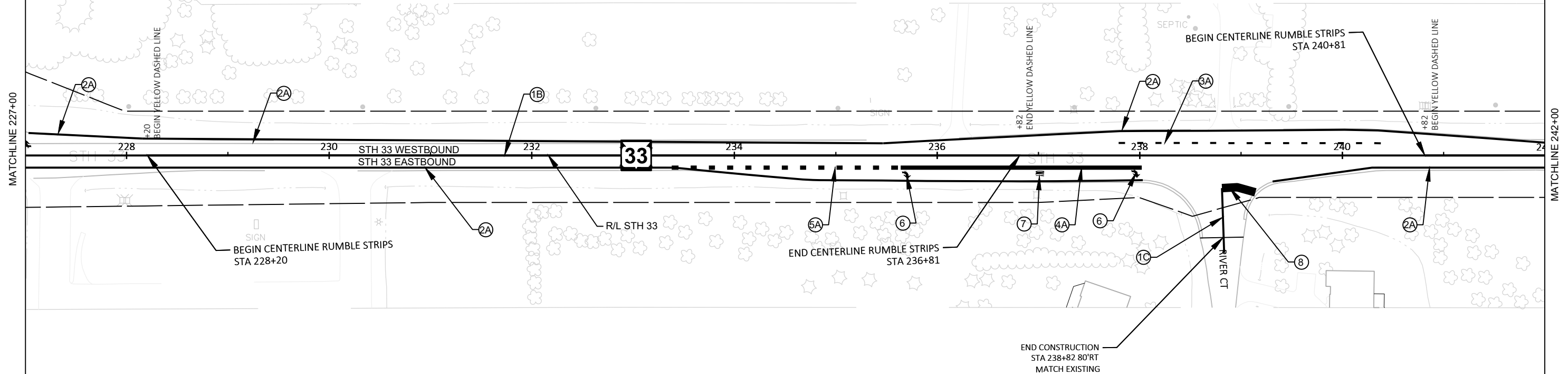


2

2

NOTES:

- 1) LOG EXISTING NO PASSING ZONES PRIOR TO MILLING AND MARK CENTERLINE SAME AS EXISTING.
- 2) STOP BARS SHOULD BE MAINTAINED THROUGH THE DURATION OF THE PROJECT.
- 3) EXACT LOCATION OF STOPBAR PER SE REGION STOPBAR DETAIL.



LEGEND		
1A MARKING LINE EPOXY 6-INCH (WHITE)	4A MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	6 MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
1B MARKING LINE EPOXY 6-INCH (YELLOW), SEE NOTE 1	5A MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE 9' SKIP)	7 MARKING WORD EPOXY
1C MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW)	5B MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 3' LINE 9' SKIP)	8 MARKING STOP LINE EPOXY 18-INCH
1D MARKING LINE EPOXY 4-INCH (YELLOW)	5C MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)	9 MARKING DIAGONAL EPOXY 12-INCH
2A MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	5D MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	10 MARKING CHEVRON EPOXY 6-INCH
3A MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)		11 MARKING CURB EPOXY
		12 MARKING ISLAND NOSE EPOXY

NOTES:
1) LOG EXISTING NO PASSING ZONES PRIOR TO MILLING
AND MARK CENTERLINE SAME AS EXISTING.
2) STOP BARS SHOULD BE MAINTAINED THROUGH THE
DURATION OF THE PROJECT.
3) EXACT LOCATION OF STOPBAR PER SE REGION
STOPBAR DETAIL.

MATCHLINE 242+00

MATCHLINE 257+00

LEGEND

- ①A MARKING LINE EPOXY 6-INCH (WHITE)
①B MARKING LINE EPOXY 6-INCH (YELLOW), SEE NOTE 1
①C MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW)
①D MARKING LINE EPOXY 4-INCH (YELLOW)
②A MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
③A MARKING LINE GROOVED WET REF EPOXY
6-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)

- ④A MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
⑤A MARKING LINE GROOVED WET REF EPOXY
10-INCH (DASHED WHITE 3' LINE 9' SKIP)
⑤B MARKING LINE GROOVED WET REF EPOXY
6-INCH (DASHED WHITE 3' LINE 9' SKIP)
⑤C MARKING LINE GROOVED WET REF EPOXY
6-INCH (DOUBLE YELLOW)
⑤D MARKING LINE GROOVED WET REF EPOXY
6-INCH (YELLOW)

- ⑥ MARKING ARROW EPOXY
(TYPE 2 UNLESS NOTED)
⑦ MARKING WORD EPOXY
⑧ MARKING STOP LINE EPOXY 18-INCH
⑨ MARKING DIAGONAL EPOXY 12-INCH
⑩ MARKING CHEVRON EPOXY 6-INCH
⑪ MARKING CURB EPOXY
⑫ MARKING ISLAND NOSE EPOXY

PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

PAVEMENT MARKING

SHEET

58

E

FILE NAME : \\192.168.100.11\TITANIC GOLD\ENGINEERING\2020\CURRENT PROJECTS\202008-TE-STH 33\C3D-TOKI\STH_33 60%\SHEETSP\AN\0220_01-PM_3-27-2023.DWG
LAYOUT NAME - 03 PAVEMENT MARKING

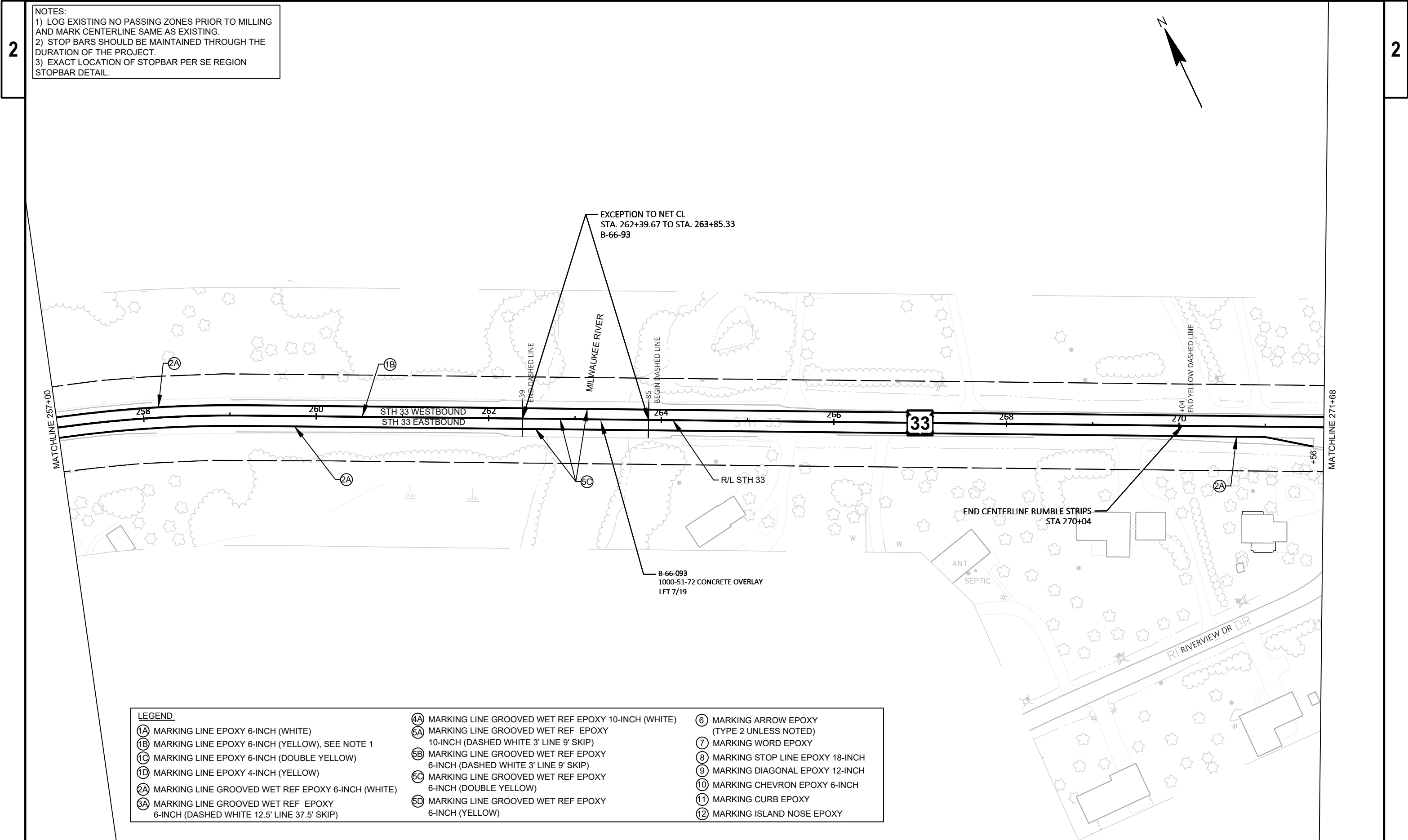
PLOT DATE : 10/14/2024 12:33 PM

PLOT BY : PATRICIA ROEPER.

PLOT NAME :

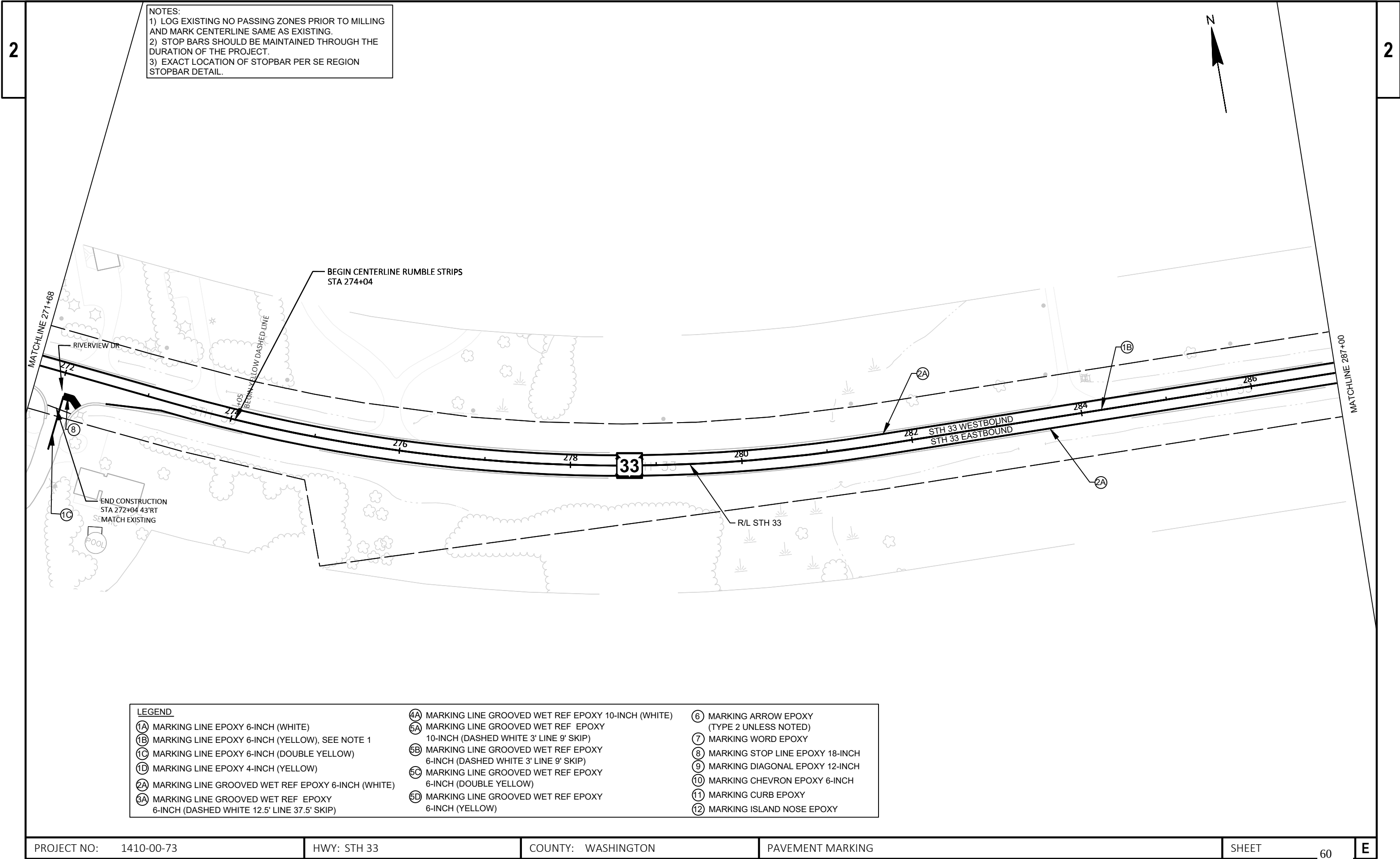
PLOT SCALE : #####

WISDOT/CADDs SHEET 42



NOTES:
1) LOG EXISTING NO PASSING ZONES PRIOR TO MILLING AND MARK CENTERLINE SAME AS EXISTING.
2) STOP BARS SHOULD BE MAINTAINED THROUGH THE DURATION OF THE PROJECT.
3) EXACT LOCATION OF STOPBAR PER SE REGION STOPBAR DETAIL.

LEGEND					
1A	MARKING LINE EPOXY 6-INCH (WHITE)	4A	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	6	MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
1B	MARKING LINE EPOXY 6-INCH (YELLOW), SEE NOTE 1	5A	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE 9' SKIP)	7	MARKING WORD EPOXY
1C	MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW)	5B	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 3' LINE 9' SKIP)	8	MARKING STOP LINE EPOXY 18-INCH
1D	MARKING LINE EPOXY 4-INCH (YELLOW)	5C	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)	9	MARKING DIAGONAL EPOXY 12-INCH
2A	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	5D	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	10	MARKING CHEVRON EPOXY 6-INCH
3A	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)			11	MARKING CURB EPOXY
				12	MARKING ISLAND NOSE EPOXY



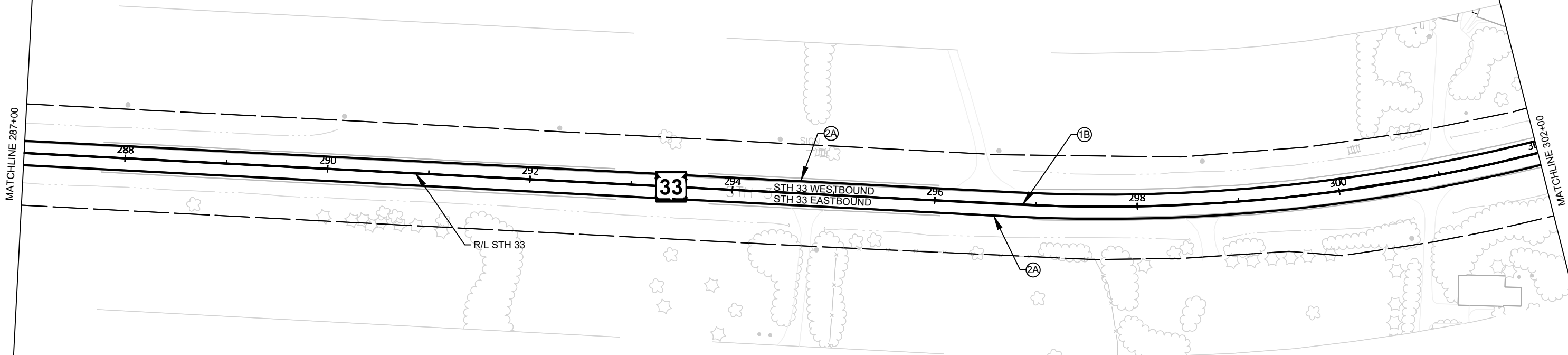
LEGEND					
1A	MARKING LINE EPOXY 6-INCH (WHITE)	4A	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	6	MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
1B	MARKING LINE EPOXY 6-INCH (YELLOW), SEE NOTE 1	5A	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE 9' SKIP)	7	MARKING WORD EPOXY
1C	MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW)	5B	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 3' LINE 9' SKIP)	8	MARKING STOP LINE EPOXY 18-INCH
1D	MARKING LINE EPOXY 4-INCH (YELLOW)	5C	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)	9	MARKING DIAGONAL EPOXY 12-INCH
2A	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	5D	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	10	MARKING CHEVRON EPOXY 6-INCH
3A	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)			11	MARKING CURB EPOXY
				12	MARKING ISLAND NOSE EPOXY

NOTES:
1) LOG EXISTING NO PASSING ZONES PRIOR TO MILLING
AND MARK CENTERLINE SAME AS EXISTING.
2) STOP BARS SHOULD BE MAINTAINED THROUGH THE
DURATION OF THE PROJECT.
3) EXACT LOCATION OF STOPBAR PER SE REGION
STOPBAR DETAIL.



MATCHLINE 287+00

MATCHLINE 302+00

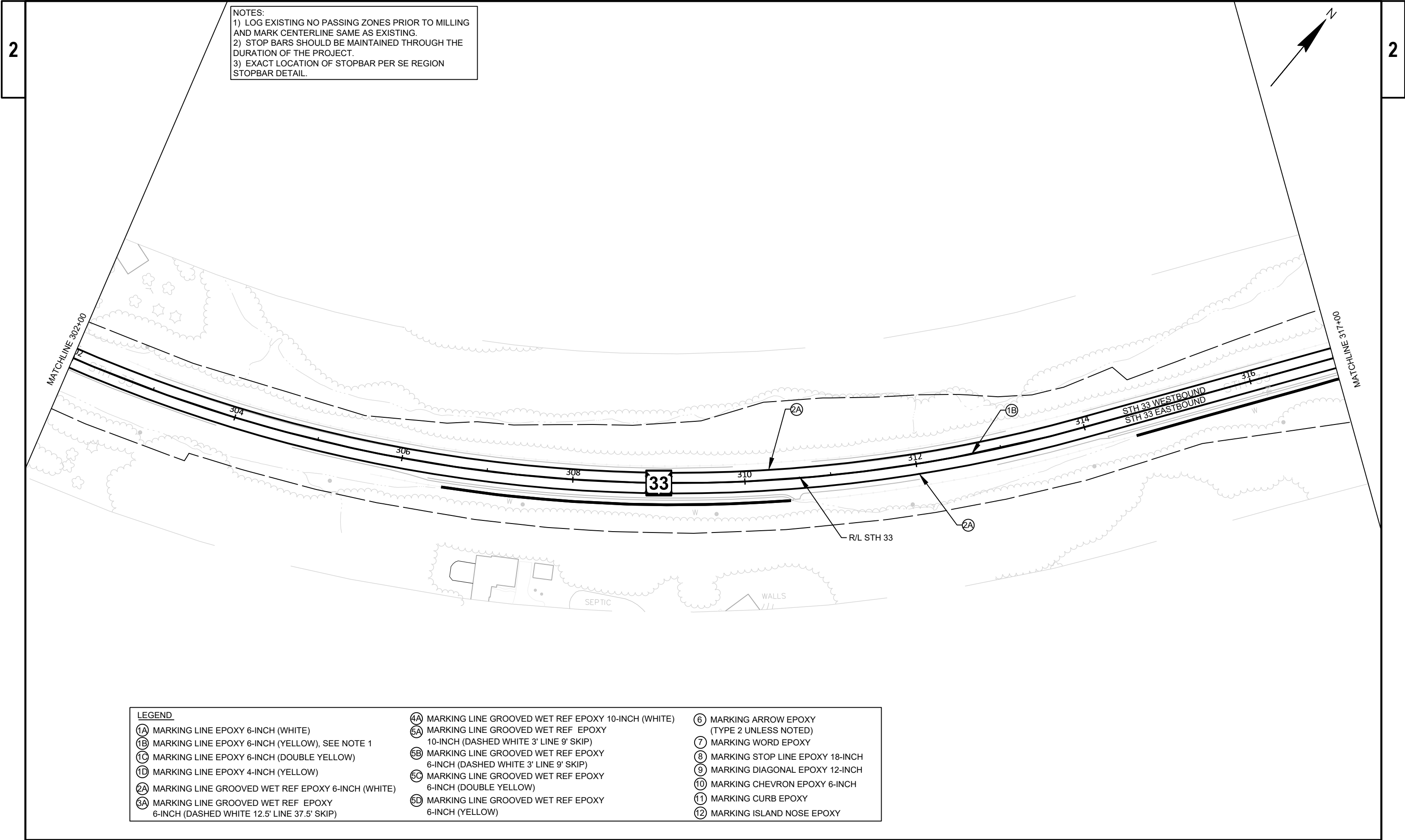


LEGEND

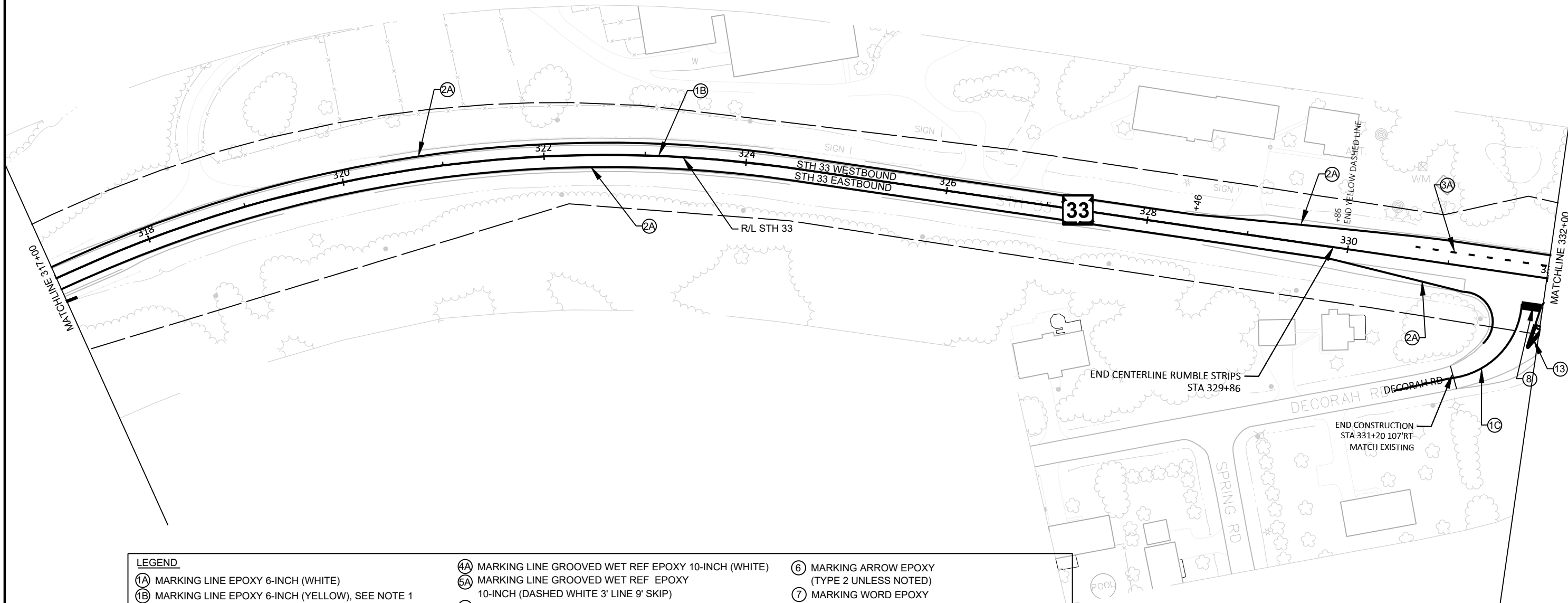
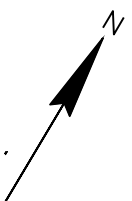
- 1A MARKING LINE EPOXY 6-INCH (WHITE)
- 1B MARKING LINE EPOXY 6-INCH (YELLOW), SEE NOTE 1
- 1C MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW)
- 1D MARKING LINE EPOXY 4-INCH (YELLOW)
- 2A MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- 3A MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)

- 4A MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- 5A MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE 9' SKIP)
- 5B MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 3' LINE 9' SKIP)
- 5C MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- 5D MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

- 6 MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
- 7 MARKING WORD EPOXY
- 8 MARKING STOP LINE EPOXY 18-INCH
- 9 MARKING DIAGONAL EPOXY 12-INCH
- 10 MARKING CHEVRON EPOXY 6-INCH
- 11 MARKING CURB EPOXY
- 12 MARKING ISLAND NOSE EPOXY



NOTES:
1) LOG EXISTING NO PASSING ZONES PRIOR TO MILLING AND MARK CENTERLINE SAME AS EXISTING.
2) STOP BARS SHOULD BE MAINTAINED THROUGH THE DURATION OF THE PROJECT.
3) EXACT LOCATION OF STOPBAR PER SE REGION STOPBAR DETAIL.



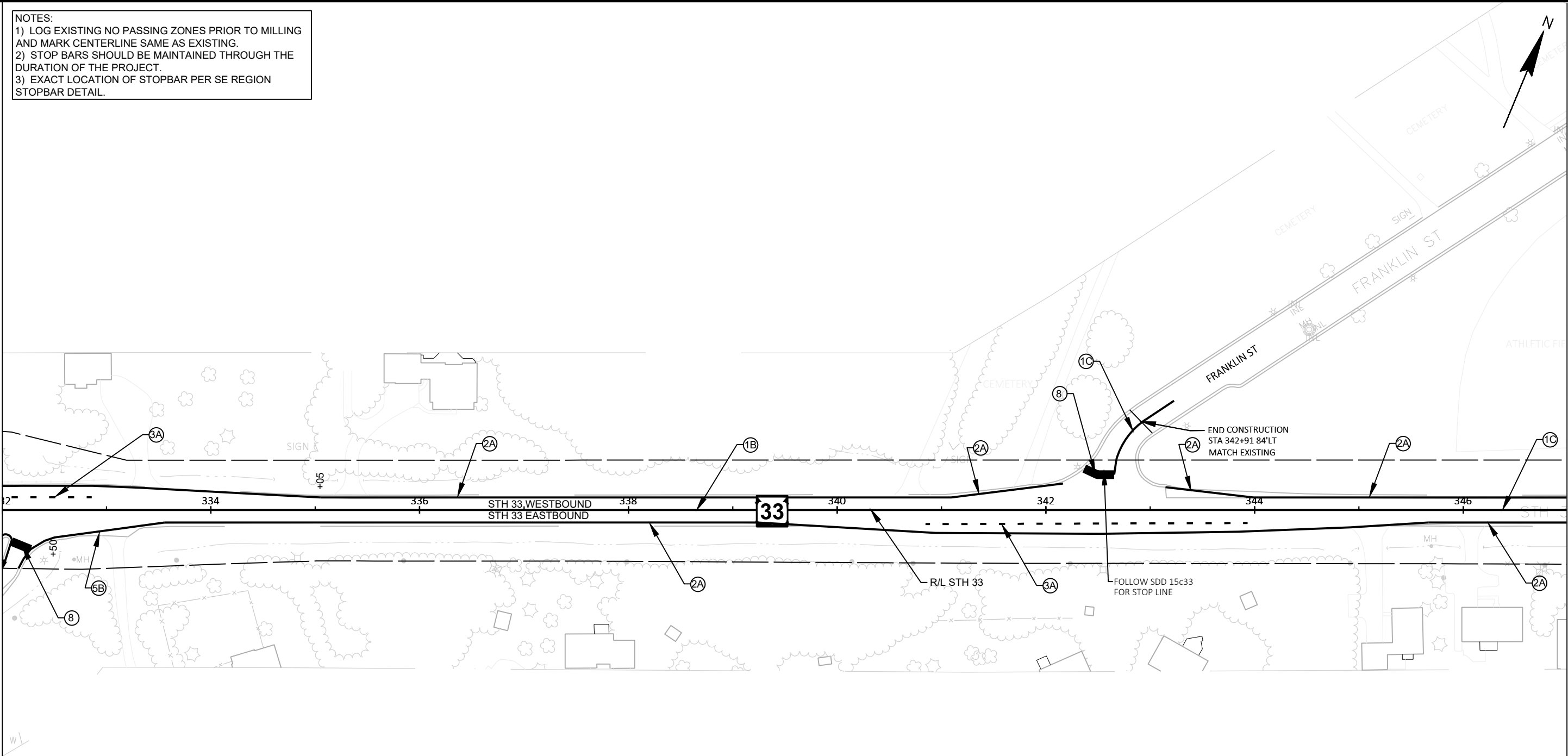
LEGEND

- | | | |
|---|--|---|
| 1A MARKING LINE EPOXY 6-INCH (WHITE) | 4A MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE) | 6 MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED) |
| 1B MARKING LINE EPOXY 6-INCH (YELLOW), SEE NOTE 1 | 5A MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE 9' SKIP) | 7 MARKING WORD EPOXY |
| 1C MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW) | 5B MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 3' LINE 9' SKIP) | 8 MARKING STOP LINE EPOXY 18-INCH |
| 1D MARKING LINE EPOXY 4-INCH (YELLOW) | 5C MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW) | 9 MARKING DIAGONAL EPOXY 12-INCH |
| 2A MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) | 5D MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) | 10 MARKING CHEVRON EPOXY 6-INCH |
| 3A MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP) | | 11 MARKING CURB EPOXY |
| | | 12 MARKING ISLAND NOSE EPOXY |
| | | 13 PAVEMENT MARKING, EPOXY, 8-INCH (WHITE) |

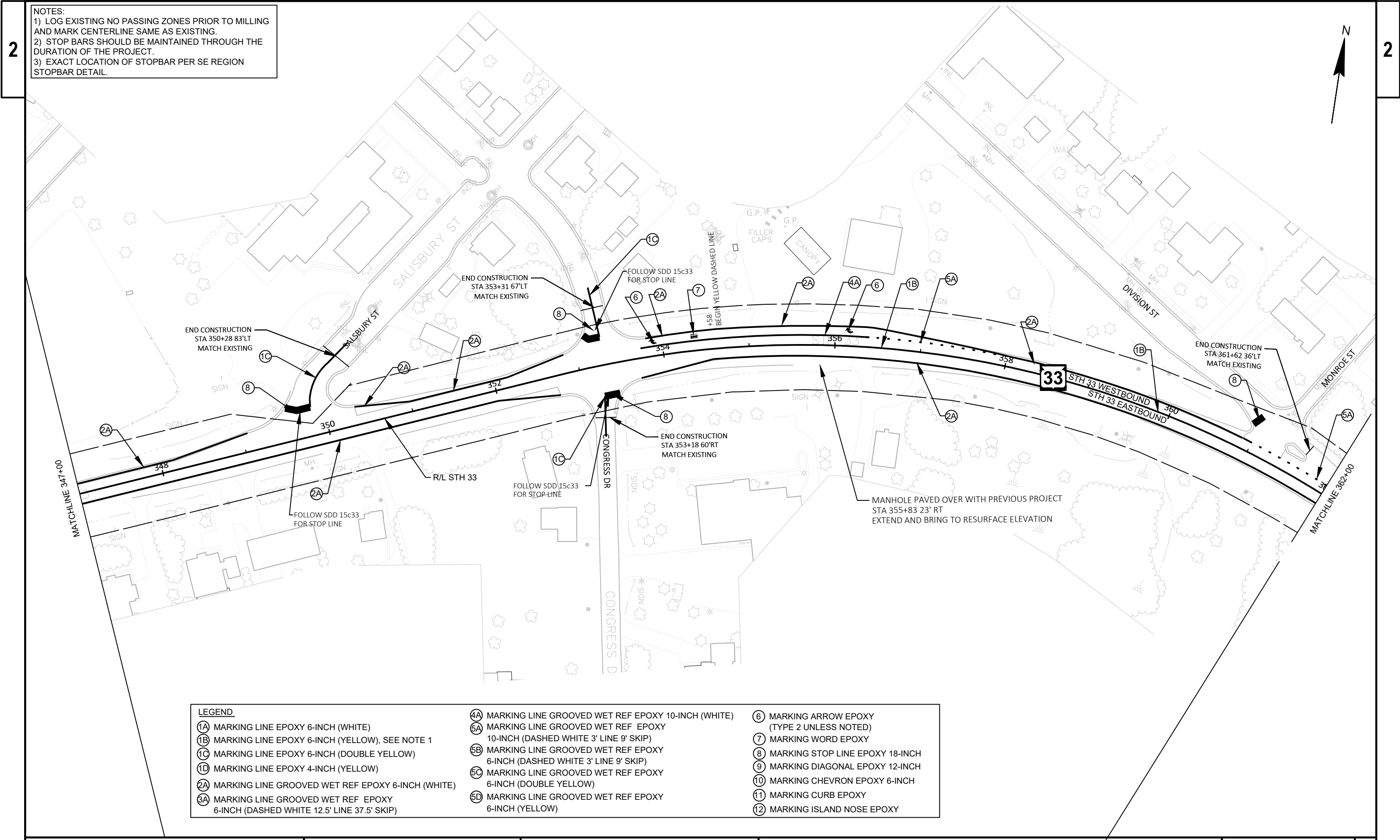
NOTES:
1) LOG EXISTING NO PASSING ZONES PRIOR TO MILLING AND MARK CENTERLINE SAME AS EXISTING.
2) STOP BARS SHOULD BE MAINTAINED THROUGH THE DURATION OF THE PROJECT.
3) EXACT LOCATION OF STOPBAR PER SE REGION STOPBAR DETAIL.

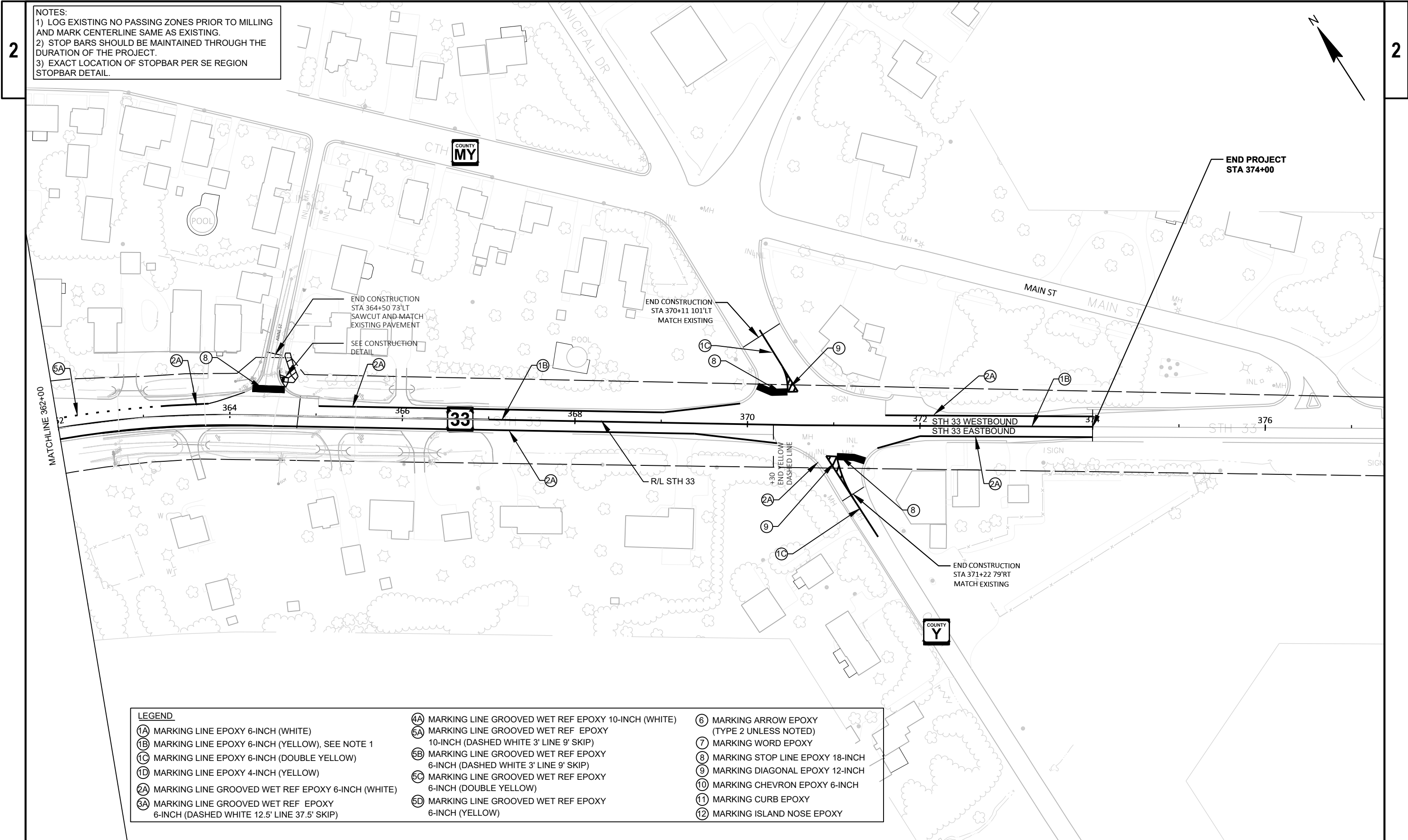
MATCHLINE 332+00

MATCHLINE 347+00



LEGEND					
1A	MARKING LINE EPOXY 6-INCH (WHITE)	4A	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	6	MARKING ARROW EPOXY (TYPE 2 UNLESS NOTED)
1B	MARKING LINE EPOXY 6-INCH (YELLOW), SEE NOTE 1	5A	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE 9' SKIP)	7	MARKING WORD EPOXY
1C	MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW)	5B	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 3' LINE 9' SKIP)	8	MARKING STOP LINE EPOXY 18-INCH
1D	MARKING LINE EPOXY 4-INCH (YELLOW)	5C	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)	9	MARKING DIAGONAL EPOXY 12-INCH
2A	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	5D	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	10	MARKING CHEVRON EPOXY 6-INCH
3A	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE 12.5' LINE 37.5' SKIP)			11	MARKING CURB EPOXY
				12	MARKING ISLAND NOSE EPOXY

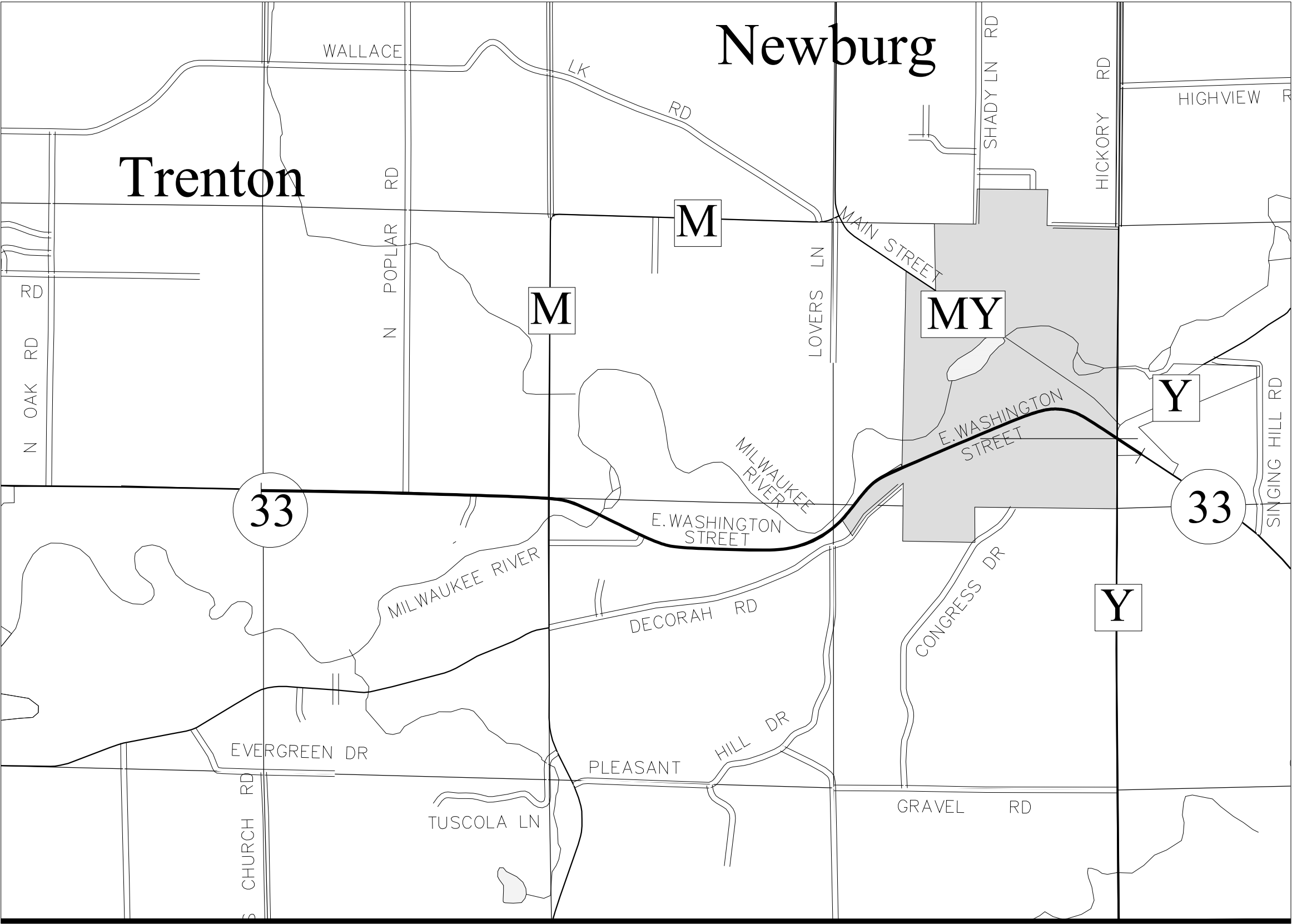




STH 33 AREA OVERVIEW

PROJECT NOTES

MILL AND REPLACE 3" ASPHALTIC PAVEMENT.



N
SCALE: 1" = 2000'

LEGEND

WORK ZONE



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.

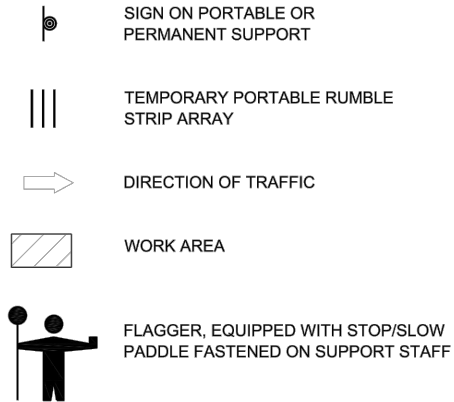
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 RE-ESTABLISHED.

WHEN A SIDE ROAD INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED UNDER FLAGGING OPERATIONS, ADDITIONAL FLAGGERS AND ADVANCE SIGNING SHALL BE PROVIDED ON SIDE ROADS FOLLOWING S.D.D. TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION.

1. CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING.
2. PLACE TRAFFIC CONTROL ITEMS AT THE BEGINNING OF EACH STAGE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. KEEP TRAFFIC CONTROL ITEMS IN PLACE AS SHOWN THROUGH THE DURATION OF EACH STAGE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING.
5. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
6. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
7. FOR A LANE CLOSURE THAT IS IN PLACE FEWER THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.
8. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
9. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
10. CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM OF 1500 FEET IN FRONT OF THE DRUMS.
11. LOCATE THE ARROW BOARD IN THE LANE CLOSURE TAPER AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE TAPER WHERE THERE IS INSUFFICIENT SPACE TO LOCATE THE ARROW BOARD.
12. ADJUSTMENT IN THE BUFFER SPACE MAY NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION.
13. DO NOT STORE EQUIPMENT OR MATERIAL WITHIN THE WORK ZONE OTHER THAN BEHIND THE TEMPORARY PRECAST CONCRETE BARRIER.
14. RE-ESTABLISH BARRICADES IN THE CLOSED LANE IMMEDIATELY AFTER THE WORK OPERATION IS COMPLETE.
15. TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE C ONE WAY IN TAPERS ONLY, UNLESS OTHERWISE SHOWN.
16. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
17. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED CONDITIONS AND/OR DIRECTED BY THE ENGINEER.
18. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN TRAFFIC FLOW.



LEGEND**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.

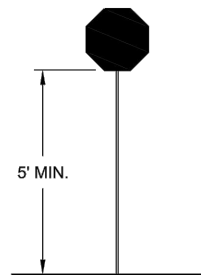
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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.



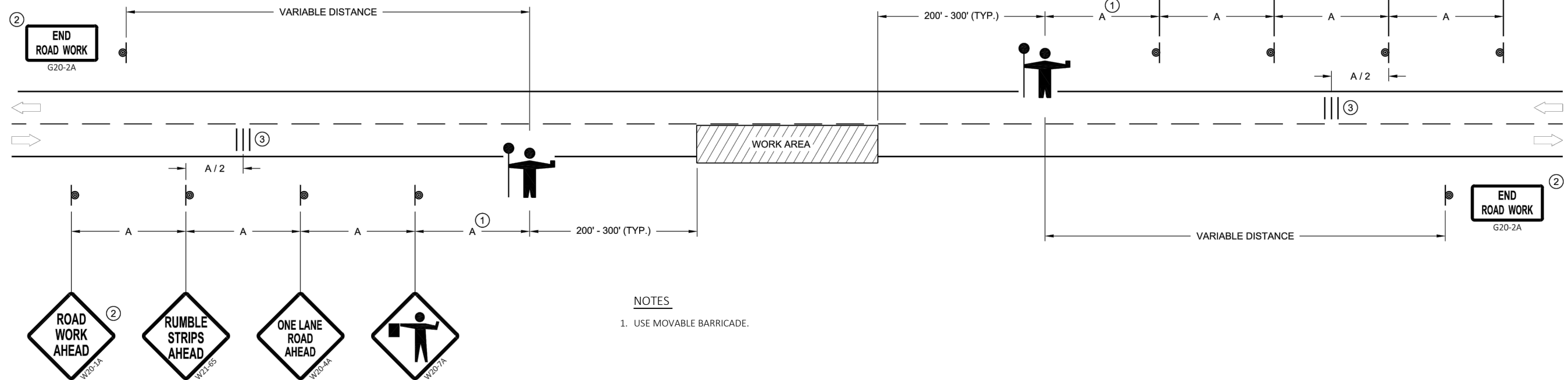
**STOP/SLOW PADDLE
ON SUPPORT STAFF**

**SIGN AND TEMPORARY RUMBLE
STRIP ARRAY SPACING TABLE**

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



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".

**NOTES**

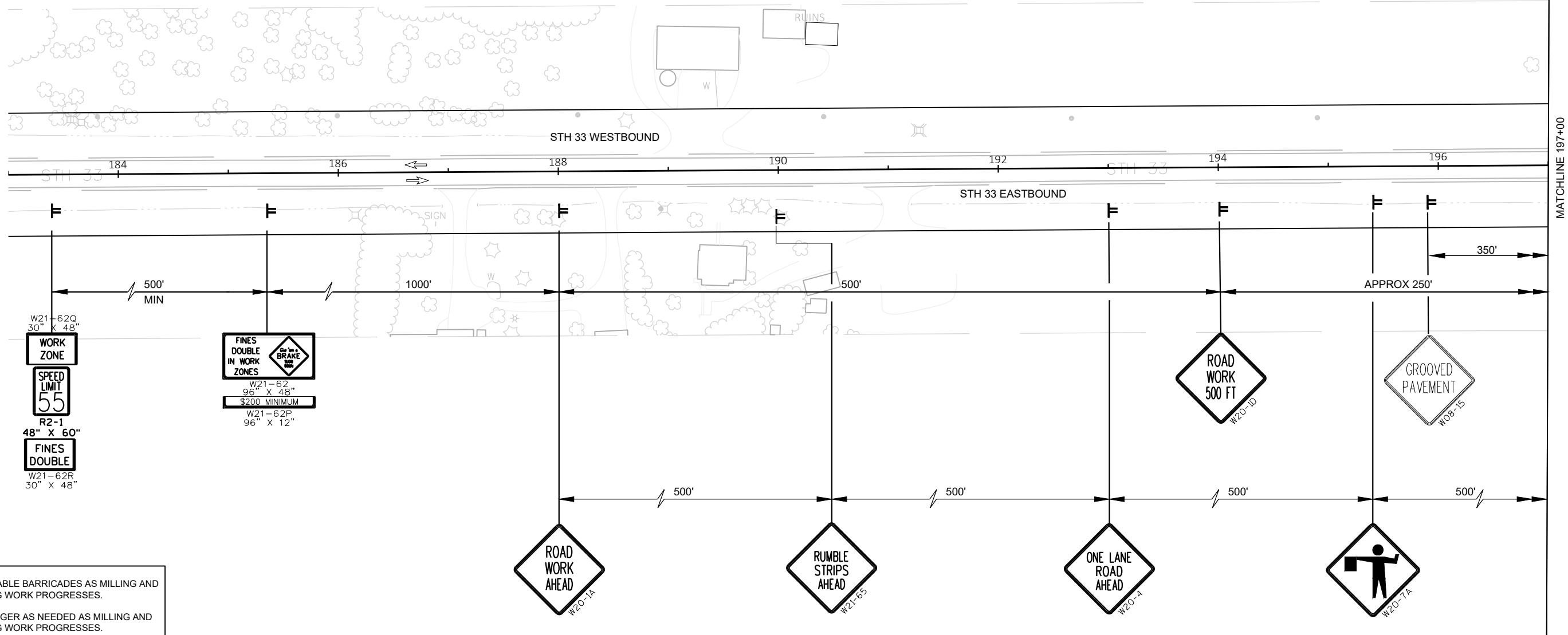
1. USE MOVABLE BARRICADE.

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKERS ARE EXCENTRIC AND SHOWN OFFSET FROM CENTER FOR VISIBILITY
- TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH YELLOW SOLID YELLOW, NO PASSING LINES
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL DRUM

WORK ZONE

FLAGGER EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

TRAFFIC CONTROL

SHEET

70

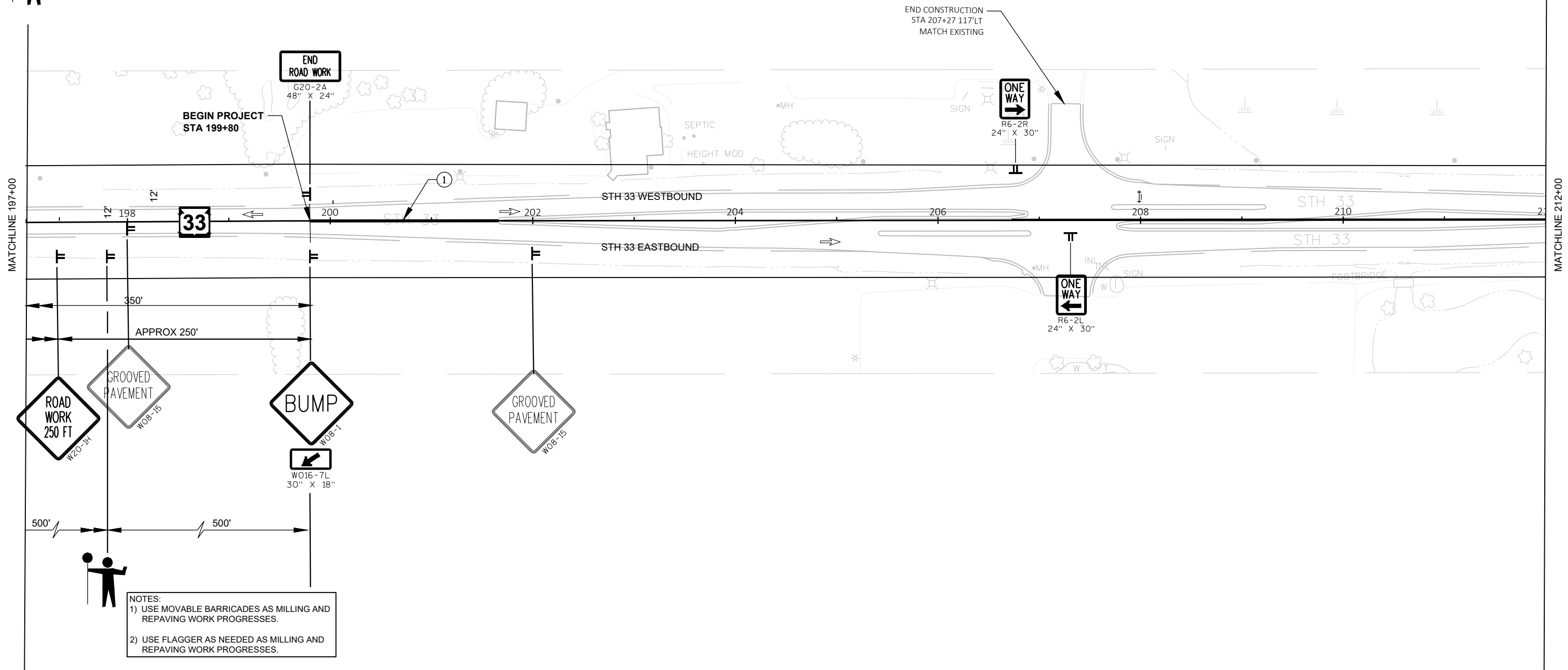
E

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLEXIBLE TUBULAR MARKERS ARE EXCENTRIC AND SHOWN OFFSET FROM CENTER FOR VISIBILITY
- ① TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH YELLOW SOLID YELLOW, NO PASSING LINES
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL DRUM

WORK ZONE

FLAGGER EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



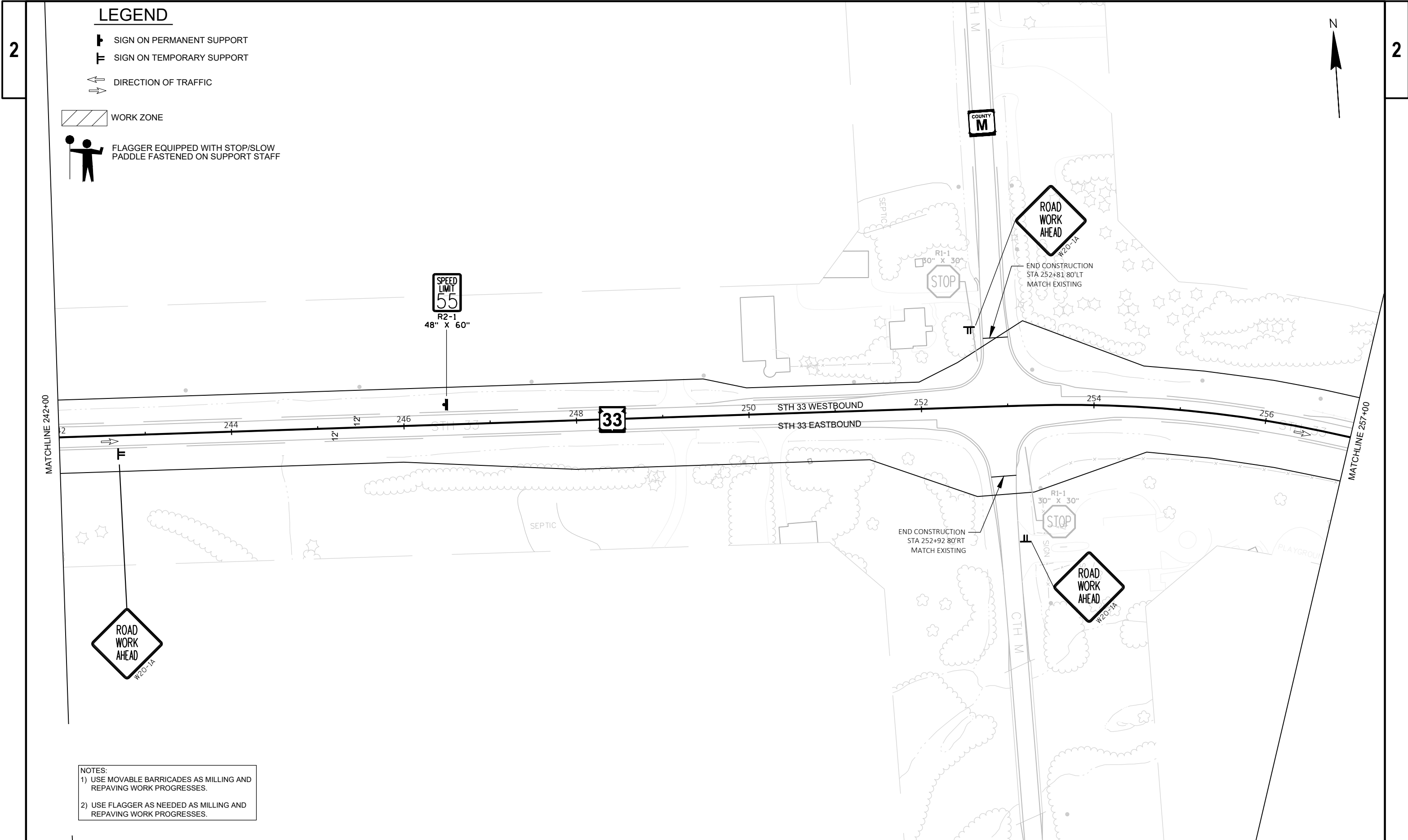
PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

TRAFFIC CONTROL

SHEET



2

2

LEGEND



SIGN ON PERMANENT SUPPORT



SIGN ON TEMPORARY SUPPORT

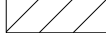
42 INCH CONES - USED ON THE BRIDGE

①

TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH YELLOW
SOLID YELLOW, NO PASSING LINES



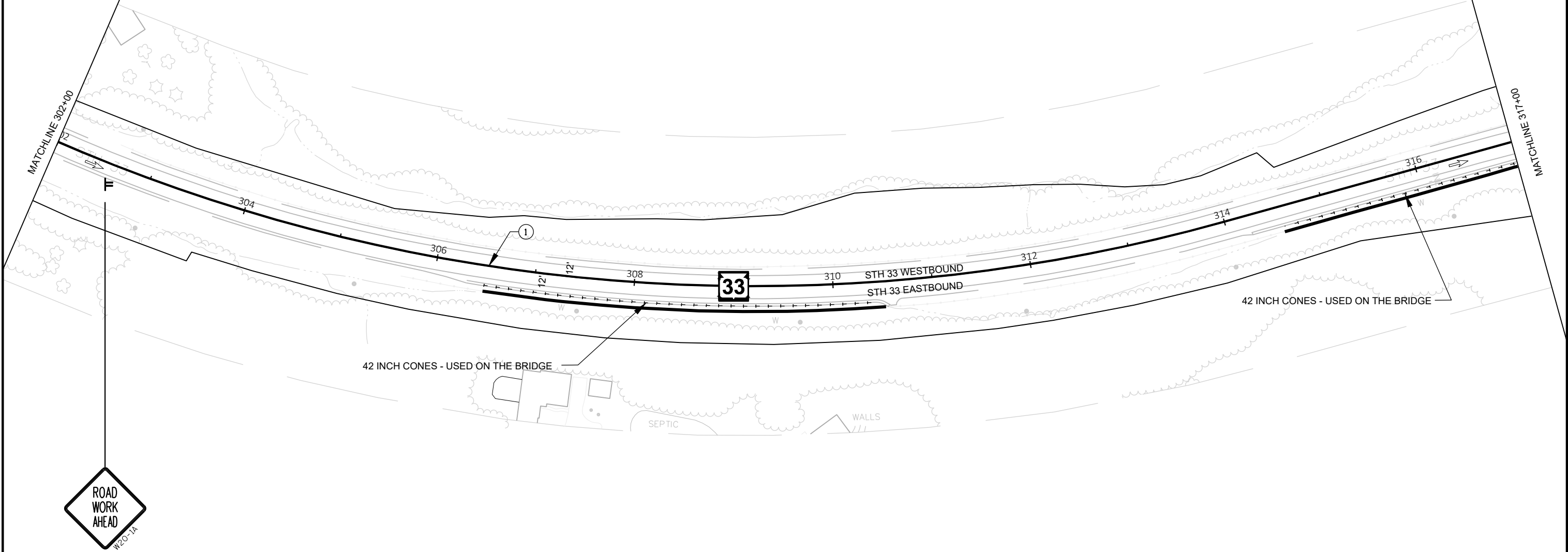
DIRECTION OF TRAFFIC



WORK ZONE



FLAGGER EQUIPPED WITH STOP/SLOW
PADDLE FASTENED ON SUPPORT STAFF



NOTES:

- 1) USE MOVABLE BARRICADES AS MILLING AND REPAVING WORK PROGRESSES.
- 2) USE FLAGGER AS NEEDED AS MILLING AND REPAVING WORK PROGRESSES.

PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

TRAFFIC CONTROL

SHEET

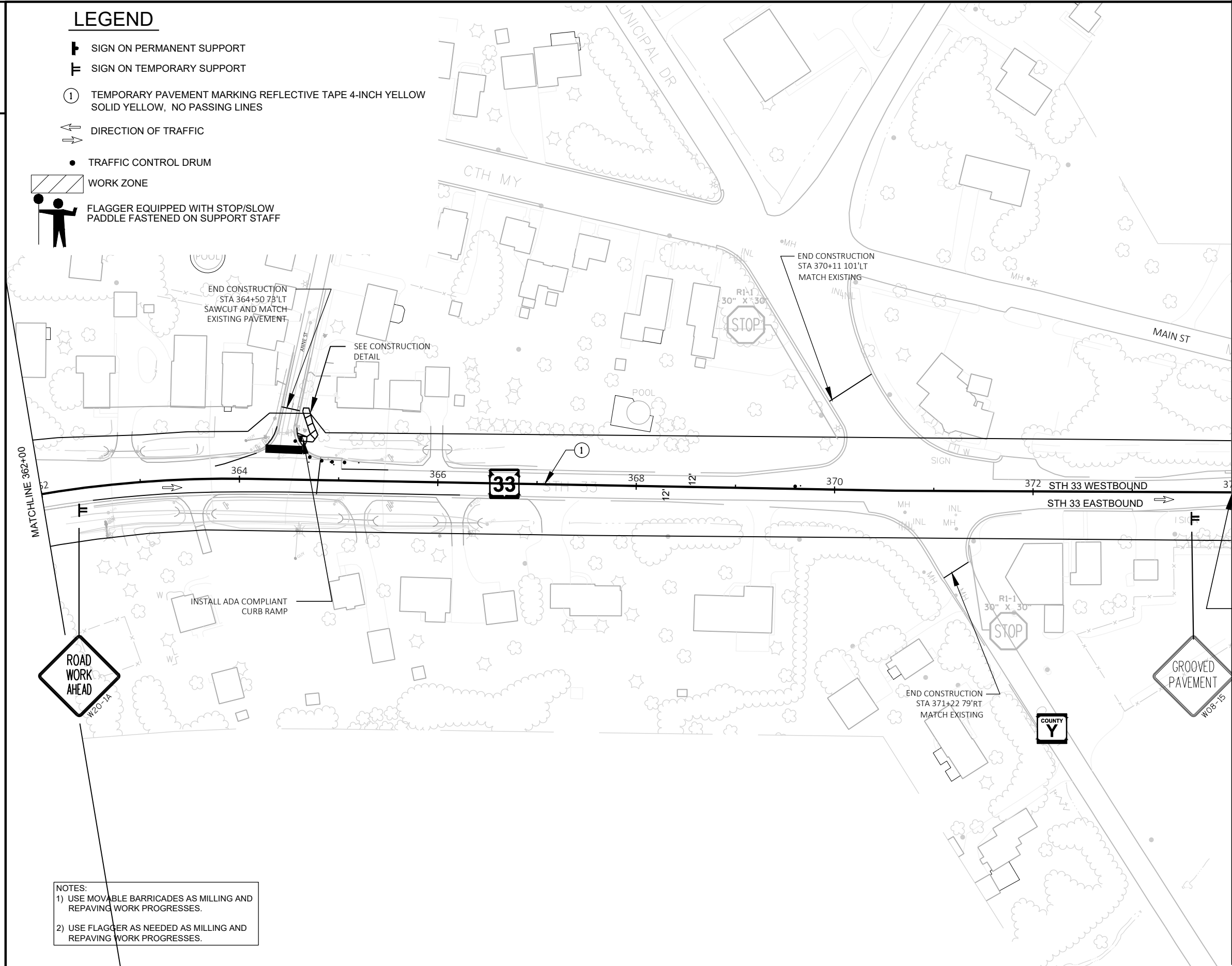
73

E

2

LEGEND

-  SIGN ON PERMANENT SUPPORT
 -  SIGN ON TEMPORARY SUPPORT
 -  TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH YELLOW SOLID YELLOW, NO PASSING LINES
 -  DIRECTION OF TRAFFIC
 -  TRAFFIC CONTROL DRUM
 -  WORK ZONE
 -  FLAGGER EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



NOTES:

- 1) USE MOVABLE BARRICADES AS MILLING AND REPAVING WORK PROGRESSES.
- 2) USE FLAGGER AS NEEDED AS MILLING AND REPAVING WORK PROGRESSES.

PROJECT NO:	1410-00-73
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HWY: STH 33

COUNTY: WASHINGTON

TRAFFIC CONTROL

SHEET

74

2

BENCH MARKS

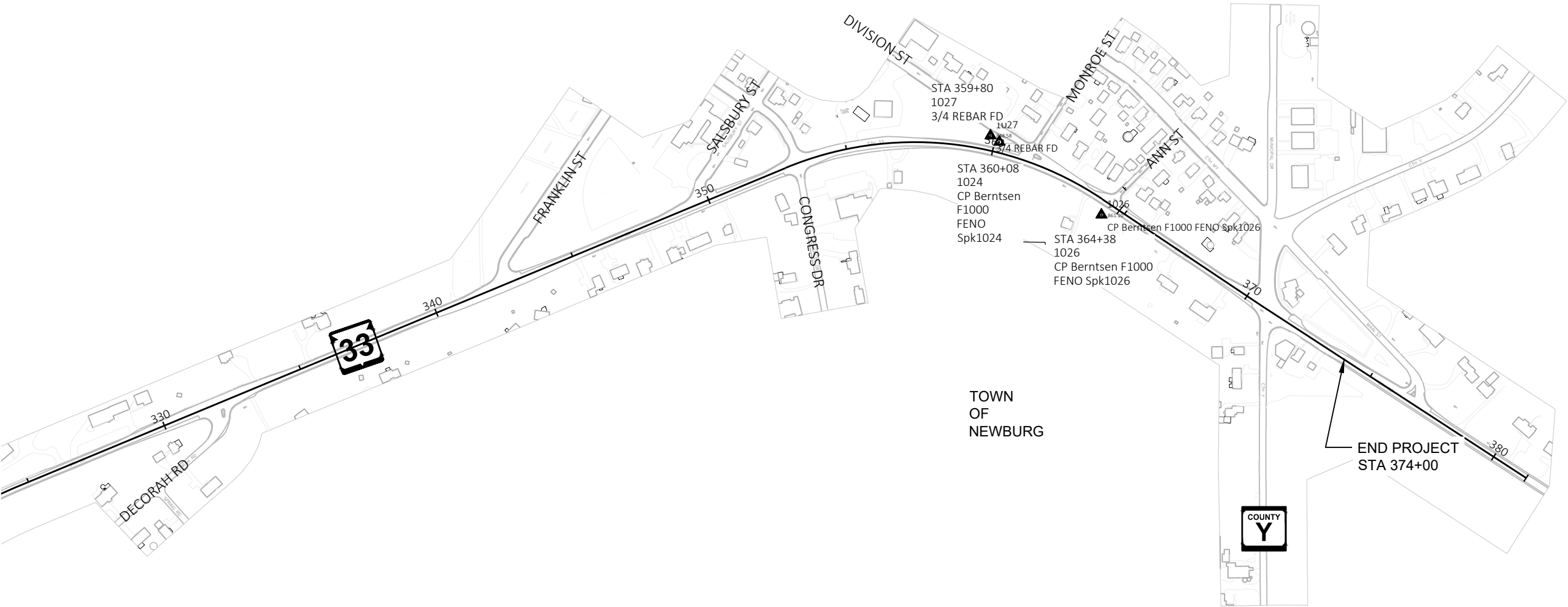
BM	DESCRIPTION	STATION	OFFSET	ELEVATION
1027	3/4 INCH REBAR FD @ N186739.9370, E399161.5690	359+80	49.66' LT	848.58

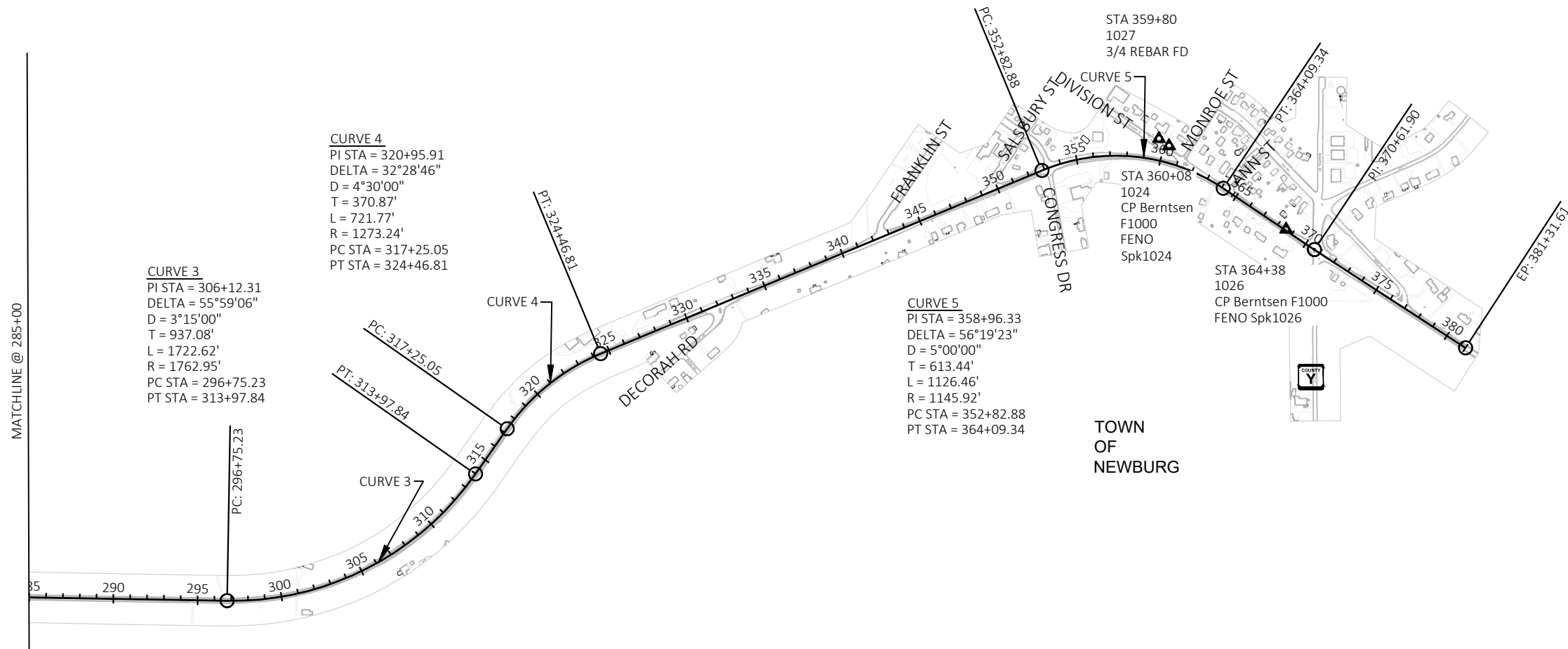
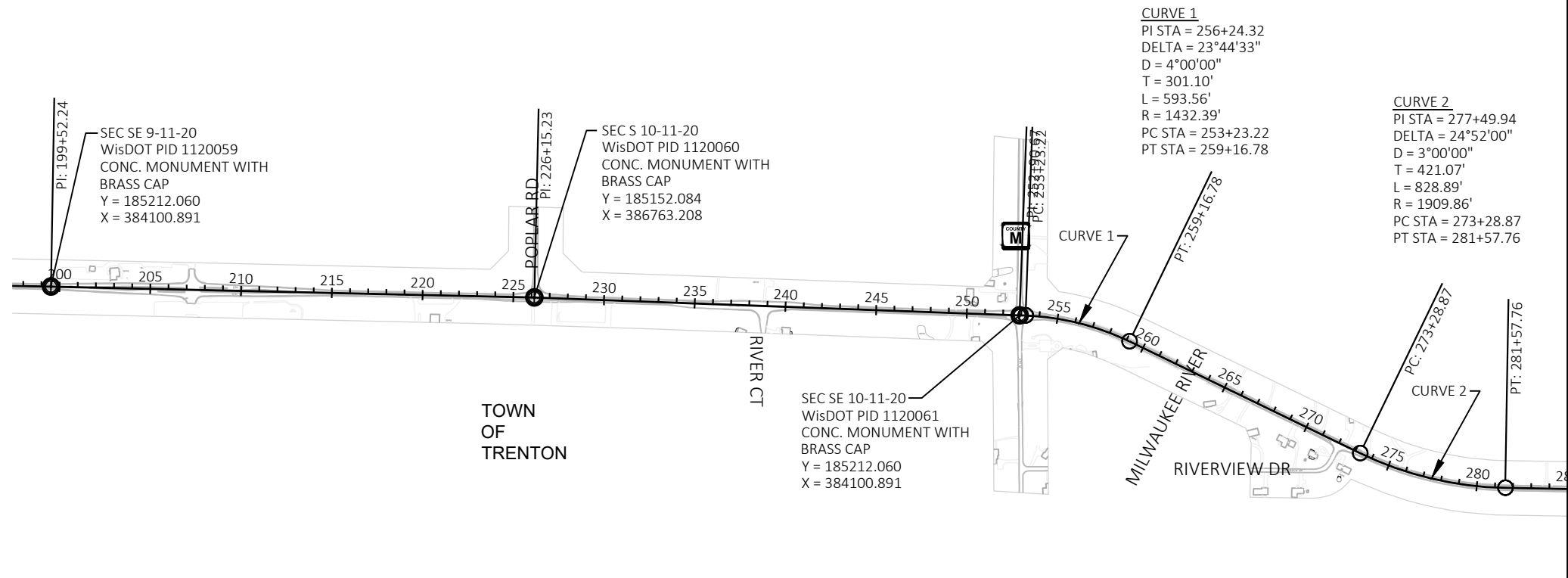
** VERTICAL DATUM REFERENCED TO NAVD 88 (2012).

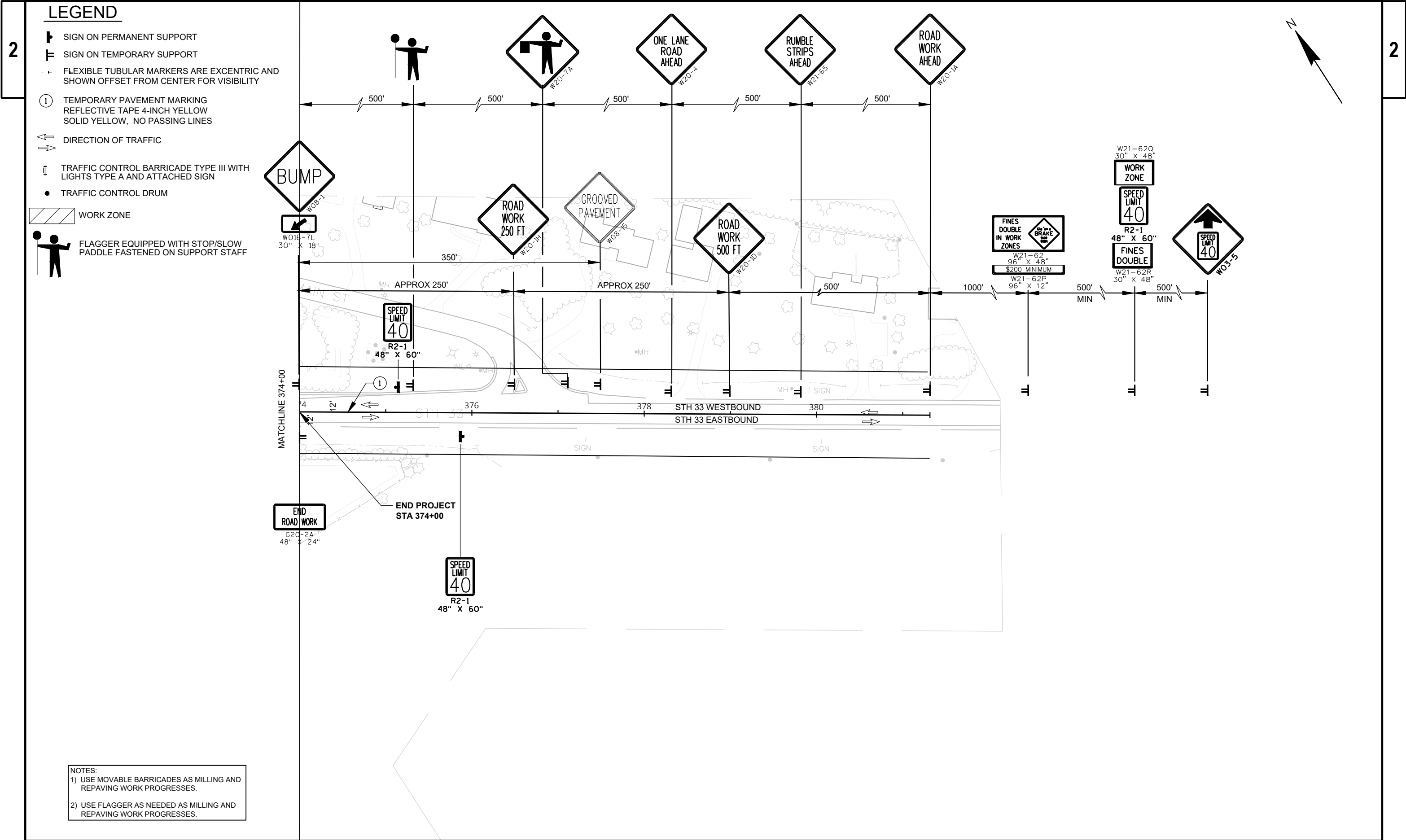
CONTROL POINTS

CP	DESCRIPTION	NORTHING	EASTING	ELEVATION
1024	CP BERNTSEN F1000 FENO Spk1024 @ STA 360.08, 34.65' LT	186717.253	399191.455	849.83
1026	CP BERNTSEN F1000 FENO Spk1026 @ STA 364.38, 46.24' RT	186470.395	399540.080	861.10

** HORIZONTAL DATUM REFERENCED TO WISCRS, WASHINGTON COUNTY NAD83 (2011).







Estimate Of Quantities

1410-00-73

Line	Item	Item Description	Unit	Total	Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	705.000	705.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	72,922.000	72,922.000
0006	204.0150	Removing Curb & Gutter	LF	2,414.000	2,414.000
0008	204.0155	Removing Concrete Sidewalk	SY	16.000	16.000
0010	204.0170	Removing Fence	LF	15.000	15.000
0012	205.0100	Excavation Common	CY	12.000	12.000
0014	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	11.000	11.000
0016	213.0100	Finishing Roadway (project) 01. 1410-00-73	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,607.000	1,607.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	10.000	10.000
0022	455.0605	Tack Coat	GAL	4,375.000	4,375.000
0024	460.2000	Incentive Density HMA Pavement	DOL	10,000.000	10,000.000
0026	460.6223	HMA Pavement 3 MT 58-28 S	TON	9,434.000	9,434.000
0028	460.6424	HMA Pavement 4 MT 58-28 H	TON	7,019.000	7,019.000
0030	465.0520	Asphaltic Rumble Strips, Shoulder	LF	19,782.000	19,782.000
0032	465.0560	Asphaltic Rumble Strips, Centerline	LF	9,891.000	9,891.000
0034	509.1500	Concrete Surface Repair	SF	234.000	234.000
0036	517.3001.S	Structure Overcoating Cleaning and Priming (structure) 01. R-66-1	EACH	1.000	1.000
0038	517.3001.S	Structure Overcoating Cleaning and Priming (structure) 02. R-66-2	EACH	1.000	1.000
0040	517.4001.S	Containment and Collection of Waste Materials (structure) 01. R-66-1	EACH	1.000	1.000
0042	517.4001.S	Containment and Collection of Waste Materials (structure) 02. R-66-2	EACH	1.000	1.000
0044	517.6001.S	Portable Decontamination Facility	EACH	1.000	1.000
0046	520.9700.S	Culvert Pipe Liners (size) 01. 36-Inch	LF	150.000	150.000
0048	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	3.000	3.000
0050	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	2,414.000	2,414.000
0052	602.0410	Concrete Sidewalk 5-Inch	SF	295.000	295.000
0054	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	16.000	16.000
0056	611.8110	Adjusting Manhole Covers	EACH	8.000	8.000
0058	611.8120.S	Cover Plates Temporary	EACH	1.000	1.000
0060	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	275.000	275.000
0062	616.0204	Fence Chain Link 4-FT	LF	15.000	15.000
0064	619.1000	Mobilization	EACH	1.000	1.000
0066	624.0100	Water	MGAL	5.000	5.000
0068	625.0500	Salvaged Topsoil	SY	12.000	12.000
0070	628.1504	Silt Fence	LF	520.000	520.000
0072	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0076	628.2006	Erosion Mat Urban Class I Type A	SY	920.000	920.000
0078	628.7010	Inlet Protection Type B	EACH	15.000	15.000
0080	628.7015	Inlet Protection Type C	EACH	3.000	3.000
0082	628.7555	Culvert Pipe Checks	EACH	4.000	4.000
0084	629.0205	Fertilizer Type A	CWT	0.060	0.060
0086	630.0140	Seeding Mixture No. 40	LB	2.000	2.000
0088	633.5200	Markers Culvert End	EACH	1.000	1.000
0090	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	140.000	140.000
0092	637.2210	Signs Type II Reflective H	SF	749.000	749.000
0094	637.2230	Signs Type II Reflective F	SF	294.000	294.000
0096	638.2102	Moving Signs Type II	EACH	3.000	3.000
0098	638.2602	Removing Signs Type II	EACH	146.000	146.000

Estimate Of Quantities

1410-00-73

Line	Item	Item Description	Unit	Total	Qty
0100	638.3000	Removing Small Sign Supports	EACH	128.000	128.000
0102	642.5001	Field Office Type B	EACH	1.000	1.000
0104	643.0300	Traffic Control Drums	DAY	1,920.000	1,920.000
0106	643.0420	Traffic Control Barricades Type III	DAY	150.000	150.000
0108	643.0705	Traffic Control Warning Lights Type A	DAY	600.000	600.000
0110	643.0715	Traffic Control Warning Lights Type C	DAY	720.000	720.000
0112	643.0900	Traffic Control Signs	DAY	3,450.000	3,450.000
0114	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0116	643.3105	Temporary Marking Line Paint 4-Inch	LF	34,704.000	34,704.000
0118	643.5000	Traffic Control	EACH	1.000	1.000
0120	644.1601	Temporary Pedestrian Curb Ramp	DAY	20.000	20.000
0122	644.1605	Temporary Pedestrian Detectable Warning Field	SF	16.000	16.000
0124	646.2020	Marking Line Epoxy 6-Inch	LF	19,547.000	19,547.000
0126	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	34,609.000	34,609.000
0128	646.3020	Marking Line Epoxy 8-Inch	LF	48.000	48.000
0130	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	1,909.000	1,909.000
0132	646.5020	Marking Arrow Epoxy	EACH	8.000	8.000
0134	646.5120	Marking Word Epoxy	EACH	2.000	2.000
0136	646.6120	Marking Stop Line Epoxy 18-Inch	LF	473.000	473.000
0138	646.7120	Marking Diagonal Epoxy 12-Inch	LF	565.000	565.000
0140	646.8220	Marking Island Nose Epoxy	EACH	11.000	11.000
0142	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	2,414.000	2,414.000
0144	650.8000	Construction Staking Resurfacing Reference	LF	17,420.000	17,420.000
0146	650.9000	Construction Staking Curb Ramps	EACH	1.000	1.000
0148	690.0150	Sawing Asphalt	LF	546.000	546.000
0150	690.0250	Sawing Concrete	LF	12.000	12.000
0152	740.0440	Incentive IRI Ride	DOL	20,000.000	20,000.000
0154	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	400.000	400.000
0156	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	900.000	900.000
0158	SPV.0060	Special 01 Steel Plate Repair R-66-1	EACH	1.000	1.000
0160	SPV.0060	Special 02 Steel Plate Repair R-66-2	EACH	1.000	1.000
0162	SPV.0060	Special 03 Chain Link Fence Repair R-66-1	EACH	1.000	1.000
0164	SPV.0060	Special 04 Chain Link Fence Repair R-66-2	EACH	1.000	1.000
0166	SPV.0060	Special 05. Adjusting Sanitary Manhole Lids, Village of Newburg	EACH	3.000	3.000
0168	SPV.0195	Special 01 Asphaltic Repair Special	TON	1,677.000	1,677.000

3

REMOVING ASPHALTIC SURFACE - BUTT JOINTS

204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS					
CATEGORY	STATION	TO	STATION	LOCATION	SY
0010	199+80	-	200+05	STH 33	83
0010	226+99	-	226+39	POPLAR RD	44
0010	238+52	-	239+12	RIVER CT	44
0010	252+72	-	253+07	CTH M-EB	33
0010	252+66	-	252+96	CTH M-WB	33
0010	262+30	-	262+40	MILWAUKEE RIVER	39
				BRIDGE	
0010	263+85	-	263+95	MILWAUKEE RIVER	39
				BRIDGE	
0010	271+84	-	272+24	RIVERVIEW RD	44
0010	331+00	-	331+30	DECORAH RD	22
0010	342+76	-	343+06	FRANKLIN ST	33
0010	350+11	-	350+46	SALISBURY ST	39
0010	353+06	-	353+31	CONGRESS DR-EB	28
0010	353+19	-	353+44	CONGRESS DR-WB	28
0010	361+53	-	361+71	MONROE ST	20
0010	364+41	-	364+59	ANNE ST	20
0010	369+86	-	370+36	CTH Y-EB	33
0010	371+07	-	371+37	CTH Y-WB	56
0010	373+85	-	374+00	STH 33	67
					705

ASPHALTIC ITEMS

STH 33 Mill & Overlay Areas					
Category	Station Range	Asphalt Area (SY)	Asphalt Lower (2 ¼")	Asphalt Upper (1 ¾")	Tack (Gal)
0010	199+80 - 215+00	8,121.00	1,051	782	487
0010	215+00 - 227+00	4,757.64	616	458	285
0010	227+00 - 242+00	6,661.15	862	641	400
0010	242+00 - 257+00	6,107.26	790	588	366
0010	257+00 - 272+00	5,187.87	671	499	311
0010	272+00 - 287+00	5,096.12	659	491	306
0010	287+00 - 302+00	4,986.69	645	480	299
0010	302+00 - 317+00	5,770.21	747	555	346
0010	317+00 - 332+00	6,350.74	822	611	381
0010	332+00 - 347+00	6,331.05	819	609	380
0010	347+00 - 362+00	7,378.53	955	710	443
0010	362+00 - 374+00	6,173.41	799	594	370
TOTALS	17,420	72,921.67	9,434	7,019	4,375
Units	LF	SY	TONS	TONS	GALs
		MILLING	3 MT 58-28 S	4 MT 58-28 H	.06 per SY

Asphaltic Special Repair Item
SPV.0195.01

Category	Station Range	Asphalt Area (SY)	Asphalt 4"		Tack (Gal)
0010	199+80 - 374+00	7292.167	1677.19841		437.53002
TOTALS		7292	1,677		438

ASPHALTIC RUMBLE STRIPS ITEMS

						465.0520	465.0560
						ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF
0010	215+00	-	224+20	STH 33	1,840		920
0010	228+20	-	236+81	STH 33	1,722		861
0010	238+70	-	250+92	STH 33	2,444		1,222
0010	254+92	-	262+14	STH 33	1,444		722
0010	264+20	-	270+04	STH 33	1,168		584
0010	274+04	-	329+86	STH 33	11,164		5,582
					19,782		9,891

3

BASE AGGREGATE DENSE SHOULDER ITEMS

BASE AGGREGATE DENSE SHOULDER ITEMS						
					211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON
CATEGORY	STATION	TO	STATION	LOCATION	STA	TON
0010	199+80	-	215+00	STH 33	0	142
0010	215+00	-	227+00	STH 33	0	112
0010	227+00	-	242+00	STH 33	0	140
0010	242+00	-	257+00	STH 33	0	121
0010	257+00	-	272+00	STH 33	0	140
0010	272+00	-	287+00	STH 33	0	140
0010	287+00	-	302+00	STH 33	0	140
0010	302+00	-	317+00	STH 33	0	140
0010	317+00	-	332+00	STH 33	0	140
0010	332+00	-	347+00	STH 33	0	140
0010	347+00	-	362+00	STH 33	0	140
0010	362+00	-	374+00	STH 33	11	112
					11	1,607

STAKING ITEMS

				650.8000	650.5500	650.9000
				CONSTRUCTION STAKING RESURFACING REFERENCE	CONSTRUCTION STAKING CURB GUTTER	CONSTRUCTION STAKING CURB RAMPS
STATION	TO	STATION	LOCATION	LF	LF	EA
199+80	-	374+00		17,420	2,414	1
				17,420	2,414	1

PROJECT NO: 1410-00-73

HWY: STH 33

COUNTY: WASHINGTON

PLAN: MISCELLANEOUS QUANTITIES - SHEET 1

SHEET

80

E

EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	628.1504	628.1905	628.1910	628.7010	628.7015	628.7555
					SILT FENCE	MOBILIZATIONS	MOBILIZATIONS	INLET	INLET	CULVERT PIPE
						EROSION CONTROL	EROSION CONTROL	PROTECTION	PROTECTION	
					LF	EA	EA	TYPE B	TYPE C	EA
								EA	EA	
0010	199+80	-	215+00	STH 33 EB						
0010	199+80	-	215+00	STH 33 WB						
0010	215+00	-	227+00	STH 33 EB	0					
0010	215+00	-	227+00	STH 33 WB	0					
0010	227+00	-	242+00	STH 33 EB	0					
0010	227+00	-	242+00	STH 33 WB	0					
0010	242+00	-	257+00	STH 33 EB	0					
0010	242+00	-	257+00	STH 33 WB	0					
0010	257+00	-	272+00	STH 33 EB	0					
0010	257+00	-	272+00	STH 33 WB	0					
0010	272+00	-	287+00	STH 33 EB	0					
0010	272+00	-	287+00	STH 33 WB	0					
0010	287+00	-	302+00	STH 33 EB	0					
0010	287+00	-	302+00	STH 33 WB	0					
0010	302+00	-	317+00	STH 33 EB	0					
0010	302+00	-	317+00	STH 33 WB	0					
0010	317+00	-	332+00	STH 33 EB	0					
0010	317+00	-	332+00	STH 33 WB	0					
0010	332+00	-	347+00	STH 33 EB	0			2		
0010	332+00	-	347+00	STH 33 WB	0					
0010	347+00	-	362+00	STH 33 EB	0			2		
0010	347+00	-	362+00	STH 33 WB	0			2	2	
0010	362+00	-	374+00	STH 33 EB	280			7	1	
0010	362+00	-	374+00	STH 33 WB	240			2		
MISCELLANEOUS						1	1			
										4
					520	1	1	15	3	4

EROSION CONTROL ITEMS

STATION	TO	STATION	LOCATION	205.0100	625.0500	628.2006	629.0205	630.0140
				EXCAVATION COMMON	SALVAGED TOPSOIL	EROSION MAT URBAN CLASS I	FERTILIZER TYPE A	SEEDING MIXTURE NO. 40
				CY	SY	TYPE A	CWT	LB
364+00	-	365+00	ANNE ST	12	12	920	0.06	2
Total				12	12	920	0.06	2

PEDESTRIAN ITEMS

STATION	TO	STATION	LOCATION	602.0505	644.1601	644.1605
				CURB RAMP DETECTABLE WARNING FIELD YELLOW	TEMPORARY PEDESTRIAN CURB RAMP	TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
				SF	DAY	SF
364+00	-	365+00		16	20	16
				16	20	16

SAWCUT ITEMS

STATION	TO	STATION	LOCATION	690.0150	690.0250
				SAWING ASPHALT	SAWING CONCRETE
				LF	LF
199+80	-	374+00		546	12
				546	12

CONCRETE ITEMS

STATION	TO	STATION	LOCATION	204.0150	204.0155	601.0411	602.0410
				REMOVING CURB & GUTTER	REMOVING CONCRETE SIDEWALK	CONCRETE CURB & GUTTER 30-INCH TYPE D	CONCRETE SIDEWALK 5-INCH
				LF	SY	LF	SF
360+00	-	373+00		2,414	16	2,414	295
				2,414	16	2,414.00	295

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STRUCTURAL ITEMS

			590.1500	590.1500	517.3001.S	517.3001.S	517.4001.S	517.4001.S	517.6001.S	SPV.0060	SPV.0060	SPV.0060	SPV.0060
			CONCRETE SURFACE REPAIR R- 66-1	CONCRETE SURFACE REPAIR R-66-2	STUCTURE OVERCOATING CLEANING AND PRIMING R-66-1	STUCTURE OVERCOATING CLEANING AND PRIMING R-66-2	CONTAINMENT AND COLLECTION OF WASTE MATERIAL R-66-1	CONTAINMENT AND COLLECTION OF WASTE MATERIAL R-66-2	PORTABLE DECONTAMINATION FACILITY	SPECIAL 01 STEEL PLATE REPAIR R-66-1	SPECIAL 01 STEEL PLATE REPAIR R-66-2	SPECIAL 03 CHAIN LINK FENCE REPAIR R- 66-1	SPECIAL 03 CHAIN LINK FENCE REPAIR R-66-2
STATION	TO	LOCATION			EA	EA	EA	EA	EA	EA	EA	EA	EA
306+00	-	311+00	200		1		1		1	1		1	
314+00	-	318+00		34		1		1			1		1
TOTAL			200	34	1	1	1	1	1	1	1	1	1

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MISCELLANEOUS ITEMS

			204.0170	616.0204	633.5200	611.8110	614.0397	643.3105
			REMOVING FENCE	FENCE CHAIN LINK 4-FT	MARKER CULVERT END	ADJUSTING MANHOLE COVERS	GUARDRAIL MOW STRIP EMULSIFIED ASPHALT	TEMPORARY MARKING LINE PAINT 4 -INCH
STATION	TO	LOCATION	LF	LF	EA	EA	SY	LF
199+80	-	374+00				8	275	34,704
306+00	-	318+00	15	15				
358+40	-	358+60			1			
TOTAL			15	15	1	8	275	34,704

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SHEET

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TRAFFIC CONTROL ITEMS

				643.0300		643.0420		643.0715		643.0705		643.0900		643.1050	
				TRAFFIC CONTROL DRUMS		TRAFFIC CONTROL BARRICADES TYPE III		TRAFFIC CONTROL WARNING LIGHTS TYPE C		TRAFFIC CONTROL WARNING LIGHTS TYPE A		TRAFFIC CONTROL SIGNS		TRAFFIC CONTROL SIGNS PCMS	
CATEGORY	STATION	LOCATION	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY
0010	STA 183+00 - STA 199+80		30	0	0	0	0	0	0	0	0	13	390	1	14
0010	STA 199+80 - STA 225+00			0	0	0	0	0	0	0	0	3	90	0	0
0010		POPLAR RD		0	0	1	30	4	120	0	0	3	90	0	0
0010	STA 227+00 - STA 252+00			0	0	0	0	0	0	0	0	10	300	0	0
0010		CTH M		0	0	0	0	0	0	0	0	8	240	0	0
0010	STA 254+00 - STA 341+00			0	0	0	0	4	120	0	0	30	900	0	0
0010		FRANKLIN ST		0	0	1	30	4	120	0	0	2	60	0	0
0010	STA 244+00 - STA 348+00			10	300	0	0	0	0	0	0	3	90	0	0
0010		SALSBURY ST		8	240	1	30	4	120	0	0	3	90	0	0
0010		CONGRESS DR		8	240	0	0	0	0	0	0	3	90	0	0
0010	STA 354+00 - STA 360+00			12	360	0	0	0	0	4	120	3	90	0	0
0010		DIVISION ST		7	210	0	0	0	0	4	120	3	90	0	0
0010		ANNE ST		6	180	1	30	4	120	4	120	2	60	0	0
0010	STA 365+00 - STA 369+00			4	120	0	0	0	0	4	120	5	150	0	0
0010		CTH Y		9	270	1	30	4	120	4	120	4	120	0	0
0010	STA 372+00 - STA 381+50			0	0	0	0	0	0	0	0	20	600	1	14
PROJECT TOTAL				1920		150		720		600		3,450		28	

643.5000
TRAFFIC CONTROL

CATEGORY	STATION	LOCATION	EACH
0010	STA 183+00 - STA 381+50	STH 33	1
PROJECT TOTAL			1

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W X H IN. IN.	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6INCH X 18FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS / NEW SIGN LOCATION
1-01	S1-1 (2S)		36 X 36		6.75	1		1	1		
1-02	S16-9P (2S)		30 X 18		3.75			1		1-01	
1-03	R2-6P (2S)		24 X 18	3.00				1		1-01	
1-04	R2-1 (2S)		24 X 30	5.00		1		1			
1-05	S5-2 (2S)		24 X 30	5.00						1-04	
1-06	W14-3 (2S)		48 X 36		5.56	1		1	1		PLACE AT START OF NO PASSING ZONE
1-07	W6-3 (2S)		36 X 36		9.00	1		1			
2-01	S5-2							1	1		
2-02	R5-1 (2S)		30 X 30	6.25		1		1	1		
2-03	W6-2 (2S)		36 X 36		9.00			1		2-02	
2-04	R5-1A (2S)		36 X 24	6.00		1		1	1		
2-05	R6-2L (2S)		24 X 30	5.00		1		1	1		
2-06	R6-2L (2S)		24 X 30	5.00		1		1	1		
2-07	R1-1 (3)		36 X 36	7.46		1		1	1		
2-08	R5-1 (2S)		30 X 30	6.25		1		1	1		
2-09	R5-1A (2S)		36 X 24	6.00		1		1	1		
2-10	R3-20L (2S)		24 X 36	6.00		1		1	1		
2-11	W6-1 (2S)		36 X 36		9.00	1		1	1		
2-12	R4-7 (2S)		24 X 30	5.00		1		1	1		
2-13	W5-54 (2S)		18 X 18		2.25			1		2-12	
2-14	R3-20L (2S)		24 X 36	6.00		1		1	1		
2-15	R5-1A (2S)		36 X 24	6.00		1		1	1		
2-16	R5-1 (2S)		30 X 30	6.25		1		1	1		
2-17	R4-7 (2S)		24 X 30	5.00		1		1	1		
2-18	R4-7 (2S)		24 X 30	5.00		1		1	1		
2-19	R5-1A (2S)		36 X 24	6.00		1		1	1		
3-01	R4-7 (2S)		24 X 30	5.00		1		1	1		
3-02	W5-54 (2M)		18 X 18	2.25	2.25	1		1	1		
3-03	W6-1 (2S)		36 X 36		9.00	1		1	1		
3-04	S1-1 (2S)		36 X 36		6.75	1		1	1		
3-05	S16-9P (2S)		30 X 18		3.75	1		1		3-04	
3-06	R2-6P (2S)		24 X 18	3.00		1		1		3-04	
3-07	W14-3 (2S)		48 X 36		5.56	1		1	1		PLACE AT START OF NO PASSING ZONE
3-08	R1-1 (3)		36 X 36	7.46		1		1	1		
3-09	W6-2 (2S)		36 X 36		9.00	1		1	1		
3-10	R5-1 (2S)		30 X 30	6.25		1		1		3-09	
3-11	S5-2							1	1		
3-12	W6-3 (2S)		36 X 36		9.00	1		1	1		
3-13	D1-1 (2S)	POPLAR RD	72 X 15	7.50		2					
3-14	S5-2 (2S)		24 X 30	5.00		1					
3-15	W14-3 (2S)	POPLAR RD	48 X 36		5.56	1		1	1		PLACE AT START OF NO PASSING ZONE
4-01	D1-1 (2S)		72 X 15	7.50		2					
4-02	W14-3 (2S)		48 X 36		5.56	1		1	1		PLACE AT START OF NO PASSING ZONE
4-03	R3-20R (2S)		24 X 36	6.00		1					
4-04	R1-1 (3)		36 X 36	7.46		1		1	1		
5-01	J1-1 (2S)	JCT COUNTY M	24 X 39	6.50		1		1	1		
	M2-1		21 X 15								
	M1-5A	CTH M	24 X 24								
5-02	R2-1 (2S)		24 X 30	5.00		1		1	1		
5-03	I55-56 (2M)		30 X 36	7.50		1		1	1		
SUBTOTAL				176.63	101.74	43	0	43	34		

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE			637.2210 SIGNS TYPE II REFLECTIVE	637.2230 SIGNS TYPE II REFLECTIVE	634.0618 POSTS WOOD 4X6INCH X 18FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS / NEW SIGN LOCATION
			W IN.	X IN.	H IN.	H SF	F SF						
5-04	I55-56P (2M)	NEWBURG LION'S & LIONESS	30	X	36	7.50		1		1	1		
5-05	J4-1 (2S)	WEST 33	24	X	36	6.00		1		1	1		
	M3-4		24	X	12								
	M1-6	STH 33	24	X	24								
5-06	J13-1 (2S)	33 DOUBLE ARROW	24	X	45	7.50				1	1		
	M1-6		24	X	24								5-07
	M6-4		21	X	21								
5-07	R1-1 (3)		36	X	36	7.46		1		1	1		
5-08	W4-4P (3)		36	X	15		3.75			1			
5-09	R1-1 (3)		36	X	36	7.46		1		1	1		
5-10	R1-1 (3)	NORTH COUNTY M ARROW(LEFT) SOUTH COUNTY M ARROW(RIGHT)	36	X	36	7.46		1		1	1		
5-11	J3-2 (2S)		48	X	57	19.00		1		1	1		
	M3-3		24	X	12								
	M1-5A		24	X	24								
	M6-1		21	X	21								
	M3-1	CTH M	24	X	12								
	M1-5A		24	X	24								
	M6-1		21	X	21								
5-12	J3-2		30	X	30		6.25	1		1	1		
5-13	W1-2R (2S)												
5-14	J3-2 (2S)	SOUTH COUNTY M ARROW(LEFT) NORTH COUNTY M ARROW(RIGHT)	48	X	57	19.00		1		1	1		
	M3-1	CTH M	24	X	12								
	M1-5A		24	X	24								
	M6-1		21	X	21								
	M3-3		24	X	12								
	M1-5A	CTH M	24	X	24								
	M6-1		21	X	21								
5-15	R1-1 (3)		36	X	36	7.46		1		1	1		
5-16	W4-4P (3)		36	X	15		3.75			1		5-15	
5-17	J13-1 (2S)	33 DOUBLE ARROW	24	X	45	7.50		1		1	1		
	M1-6	STH 33	24	X	24								
	M6-4		21	X	21								
5-18	J4-1 (2S)	EAST 33	24	X	36	6.00		1		1	1		
	M3-2		24	X	12								
	M1-6	STH 33	24	X	24								
6-01	W1-6 (2S)	JCT COUNTY M	-	X	-		8.00			1	1		
6-02	J3-2									1	1		
6-03	J1-1 (2S)		24	X	39	6.50		1		1	1		
	M2-1		21	X	15								
	M1-5A	CTH M	24	X	24								
6-04	I3-1 (2S)	MILWAUKEE RIVER	60	X	24	10.00		1		1	1		
6-05	W1-2L (2S)		30	X	30		6.25	1		1	1		
6-06	R2-1 (2S)		24	X	30	5.00		1		1	1		
6-07	W2-2 (2S)		30	X	30		6.25	1		1	1		
6-08	I3-1 (2S)	MILWAUKEE RIVER	60	X	24	10.00		1		1	1		
6-09	D1-1 (2S)	RIVERVIEW DR	90	X	15	9.38		2		1	1		
6-10	W1-2L (2S)		30	X	30		6.25	1		1	1		
7-01	R1-1 (3)		36	X	36	7.46		1		1	1		
7-02	W1-6 (2S)		48	X	24		8.00	1					
7-03	D1-1 (2S)	RIVERVIEW DR	90	X	15	9.38		2					
SUBTOTAL						160.05	48.50	25	0	26	24		

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE			637.2210 SIGNS TYPE II REFLECTIVE	637.2230 SIGNS TYPE II REFLECTIVE	634.0618 POSTS WOOD 4X6INCH X 18FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS / NEW SIGN LOCATION			
			W IN.	X IN.	H IN.	H SF	F SF									
7-04	W1-6 (2S)		48	X	24		8.00	1		1	1					
8-01	W1-4L (2S)		30	X	30		6.25	1								
8-02	W1-2R (2S)		30	X	30		6.25	1								
8-03	W1-6 (2S)		48	X	24		8.00	1								
9-01	W1-6 (2S)		48	X	24		8.00	1								
10-01	W1-6 (2S)	WEST BEND 5	48	X	24	8.13	8.00	1		1	1					
10-02	W1-6 (2S)		48	X	24		8.00	1		1						
10-03	D2-2 (2S)		78	X	15			2		1	2					
10-04	R2-1 (2S)		24	X	30		5.00	1		1	1					
10-05	J4-1 (2S)		24	X	36		6.00	1		1	1					
10-06	M3-4	STH 33	24	X	12		6.25	1		1	1					
	M1-6		24	X	24											
	W1-4L (2S)		30	X	30									8.00	1	1
	W1-7 (2S)		48	X	24									9.00	1	1
	W3-5 (2S)		36	X	36											
10-09	I2-3 (2S)	NEWBURG POPULATION 1142 FOR ALL VILLAGE STREETS EAST 33	60	X	24	10.00		2	1 1	1	2	10-09				
10-10	R12-53 (2S)					1										
10-11																
11-01	J4-1 (2S)		24	X	36	6.00		1		1	1					
	M3-2		24	X	12											
11-02	M1-6	STH 33	24	X	24	5.00	8.00	1		1	1					
11-03	R2-1 (2S)		24	X	30									7.46	1	1
11-04	R1-1 (3)		36	X	36									5.00	1	1
11-05	R2-1 (2S)		24	X	30										1	1
11-06	W1-6 (2S)		48	X	24										1	1
11-06	R1-1 (3)	33 DOUBLE ARROW STH 33	36	X	36	7.46		1		1	1					
11-07	R1-1 (3)		36	X	36	7.46		1		1						
11-08	J13-1 (2S)		24	X	45	7.50		1		1						
	M1-6		24	X	24											
	M6-4		21	X	21											
11-09	R5-1 (2S)		30	X	30	6.25	6.75	1		1	1	11-08				
11-10	R2-1 (2S)		24	X	30	5.00				1	1					
11-11	S1-1 (2S)		36	X	36					1	1					
11-12	S16-9P (2S)		30	X	18	3.75				1	1					
11-13	R2-6P (2S)		24	X	18	3.00				1	1					
11-14	D1-56SL (2S)	NEWBURG BUSINESS DISTRICT	66	X	36	16.50	5.56	2		1	1		PLACE AT START OF NO PASSING ZONE			
11-15	W14-3 (2S)		48	X	36			1		1						
11-16	W1-2R (2S)		30	X	30	6.25		1		1						
12-01	R1-1 (3)		36	X	36	7.46		1		1						
12-02	R1-1 (3)		36	X	36	7.46		1		1						
12-03	S1-1 (2S)		36	X	36		6.75	1		1	1	12-02 12-03				
12-04	S16-9P (2S)		30	X	18		3.75			1						
12-05	R2-6P (2S)		24	X	18					1						
12-06	R1-1 (3)		36	X	36		7.46	1		1						
12-07	R5-1 (2S)		30	X	30		6.25	1		1						
12-08	R5-1 (2S)	JCT COUNTY Y	30	X	30	6.25		1		1	1					
12-09	R1-1 (3)		36	X	36	7.46		1		1						
12-10	R2-1 (2S)		24	X	30	5.00		1		1						
12-11	J1-1 (2S)		24	X	39	6.50		1		1						
	M2-1		21	X	15											
SUBTOTAL						159.60	116.56	40	2	40	37					

TYPE II PERMANENT SIGNING

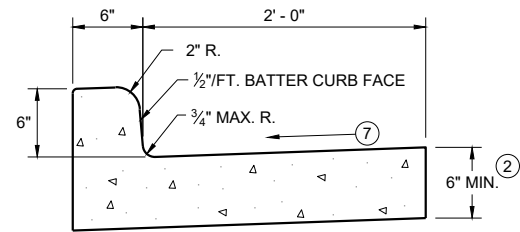
SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE			637.2210 SIGNS TYPE II REFLECTIVE	637.2230 SIGNS TYPE II REFLECTIVE	634.0618 POSTS WOOD 4X6INCH X 18FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS / NEW SIGN LOCATION
			W IN.	X IN.	H IN.	H SF	F SF						
12-12	M1-5A	CTH Y	24	X	24								
12-13	W12-1D (2S)		24	X	24		4.00			1		12-07	
12-14	W3-5 (2S)		36	X	36	9.00				1		12-08	
13-01	R6-2R (2S)	DIVISION ST	42	X	12		3.50			1		12-08	
			24	X	30	5.00		1		1	1		
13-02	R6-2L (2S)		24	X	30	5.00				1		13-01	
13-03	R1-1 (3)		36	X	36	7.46		1		1	1		
13-04	R7-1D (2S)		18	X	24				1				
13-05	R3-1 (2S)		24	X	24	4.00		1		1	1		
13-06	W1-2L (2S)		30	X	30		6.25	1		1	1		
13-07	J4-1 (2S)	WEST 33	24	X	36	6.00		1		1	1		
	M3-4		24	X	12								
	M1-6	STH 33	24	X	24								
13-08	M1-94 (2S)	WASHINGTON CO	84	X	15	8.75		2		1	2		
13-09	D1-2 (2S)	SAUKVILLE (LEFT ARROW) WEST BEND (RIGHT ARROW)	78	X	30	16.25		1		1	1		
13-10	J13-1 (2S)	33 DOUBLE ARROW	24	X	45	7.50		1		1	1		
	M1-6	STH 33	24	X	24								
	M6-4		21	X	21								
13-11	R7-1D (2S)		18	X	24	3.00		1		1	1		
13-12	J3-2 (2S)	SOUTH COUNTY Y ARROW(LEFT) NORTH COUNTY Y ARROW(RIGHT)	48	X	57	19.00		1		1	1		
	M3-3		24	X	12								
	M1-5A	CTH Y	24	X	24								
	M6-1		21	X	21								
	M3-1		21	X	12								
	M1-5A	CTH Y	24	X	24								
13-13	M6-1		21	X	21								
13-14	D1-56SR (2S)	NEWBURG BUSINESS DISTRICT	66	X	36	16.50		2		1	2		
13-15	R2-1 (2S)		24	X	30	5.00		1		1	1		
13-16	R3-2 (2S)		24	X	24	4.00		1		1	1	13-04	
13-17	R5-1 (2S)		30	X	30	6.25				1			
13-18	J3-2 (2S)									1	1		
13-19	D7-77L (2S)	RIVEREDGE NATURE CENTER	66	X	36	16.50		2		1	2	13-18	
13-20	M1-88 (2S)		18	X	18								
	J3-2 (2S)	NORTH COUNTY Y ARROW(LEFT) SOUTH COUNTY Y ARROW(RIGHT)	48	X	57	19.00		1		1	1		
	M3-1		24	X	12								
	M1-5A	CTH Y	24	X	24								
	M6-1		21	X	21								
	M3-3		24	X	12								
	M1-5A	CTH Y	24	X	24								
	M6-1		21	X	21								
13-21	R1-1 (3)		36	X	36	7.46		1		1	1		
13-22	R1-1 (3)		36	X	36	7.46		1		1	1		
13-23	W4-4P (3)		36	X	15		3.75			1		13-21	
13-24	W4-4P (3)		36	X	15		3.75			1		13-22	
13-25	J13-1 (2S)	33 DOUBLE ARROW	24	X	45	7.50		1		1	1		
13-26	M1-6	STH 33	24	X	24								
	M6-4		21	X	21								
	J4-1 (2S)	EAST 33	24	X	36	6.00		1		1	1		
	M3-2		24	X	12								
	M1-6	STH 33	24	X	24								
SUBTOTAL						186.63	21.25	22	1	27	23		

TYPE II PERMANENT SIGNING

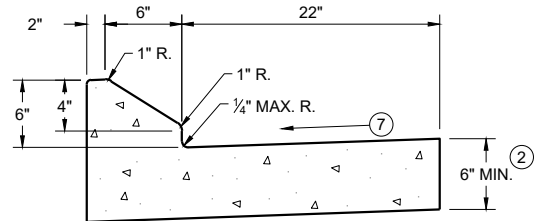
SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE			637.2210 SIGNS TYPE II REFLECTIVE	637.2230 SIGNS TYPE II REFLECTIVE	634.0618 POSTS WOOD 4X6INCH X 18FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS / NEW SIGN LOCATION
			W IN.	X IN.	H IN.	H SF	F SF						
13-27	W14-3 (2S)	OZAUKEE CO	48	X	36		5.56	1		1		13-29	PLACE AT START OF NO PASSING ZONE
13-28	M1-94 (2S)		66	X	15	6.88		2		1	2		
13-29	I55-56 (2S)		30	X	36	7.50		1		1	1		
13-30	I55-56P (2S)	CROWE MADDEN FAMILY	30	X	18	3.75				1			
14-01	J3-2								1	1			
14-02	R1-1 (3)	JCT COUNTY Y	36	X	36	7.46		1		1	1		
14-03	R1-1 (3)		36	X	36	7.46		1		1	1		
14-04	J1-1 (2S)		24	X	39	6.50		1		1	1		
	M2-1		21	X	15								
	M1-5A	CTH Y	24	X	24								
14-05	R2-1 (2S)		24	X	30	5.00		1		1	1		
14-06	D12-2B (2S)		84	X	36	21.00		2		1	2		
SUBTOTAL						65.55	5.56	10	0	10	10		
UNDISTRIBUTED													
PROJECT TOTAL						749.00	294.00	140	3	146	128		

Standard Detail Drawing List

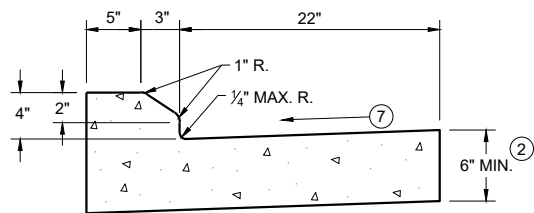
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-21B	CURB RAMPS TYPES 2 AND 3
08D05-21F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-21G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
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
14B28-04A	GUARDRAIL MOW STRIP
14B29-01	SAFETY EDGE
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	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
15C18-08A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-08B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C19-09A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-09C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-11	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D20-08A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-09A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL



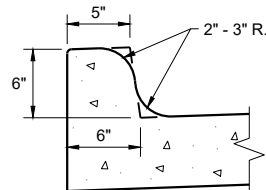
TYPES A^① & D



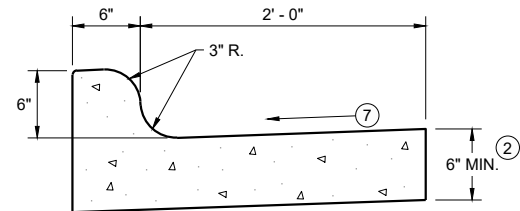
6" SLOPED CURB TYPES G^① & J



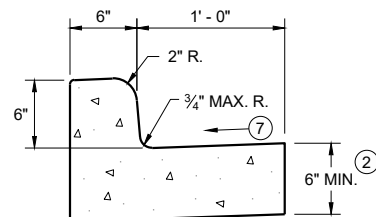
4" SLOPED CURB TYPES G^① & J



TYPES K^① & L
(OPTIONAL CURB SHAPE)

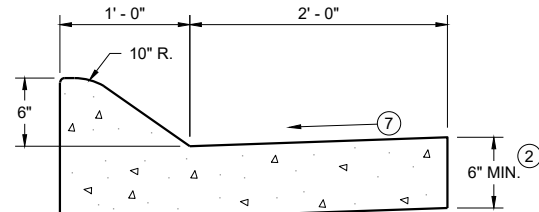


TYPES K^① & L
CONCRETE CURB AND GUTTER 30"

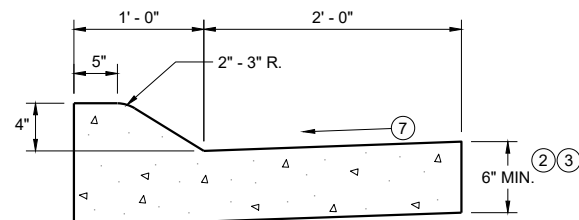


TYPES A^① & D

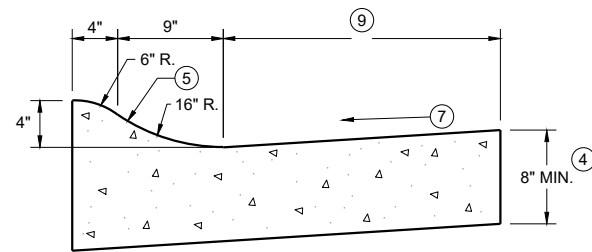
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A^① & D

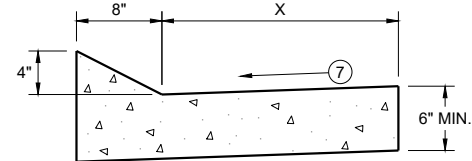


4" SLOPED CURB TYPES A^① & D
CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R^① & T

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

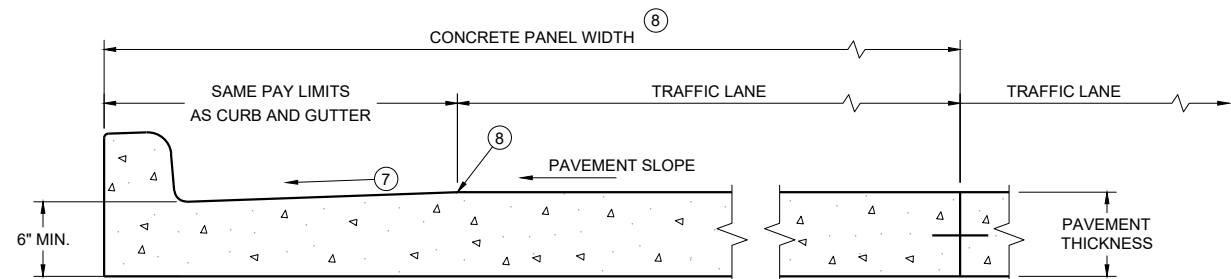


TYPES TBT & TBTT^①

CONCRETE CURB AND GUTTER

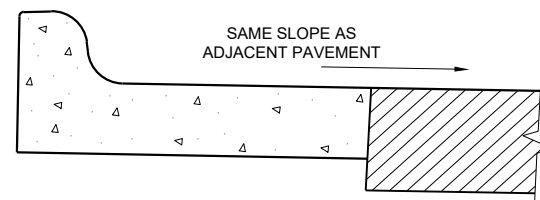
PAVEMENT THICKNESS
AND MAXIMUM CONCRETE
PANEL WIDTH TABLE

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.

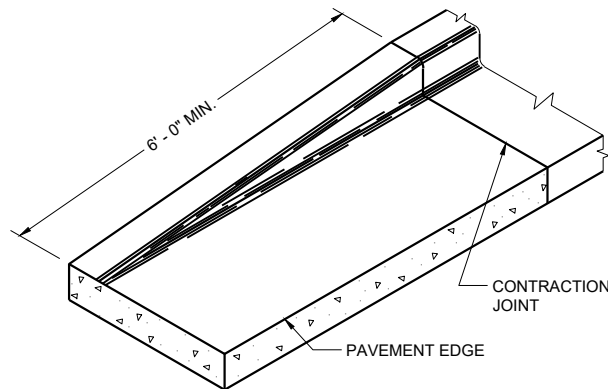
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

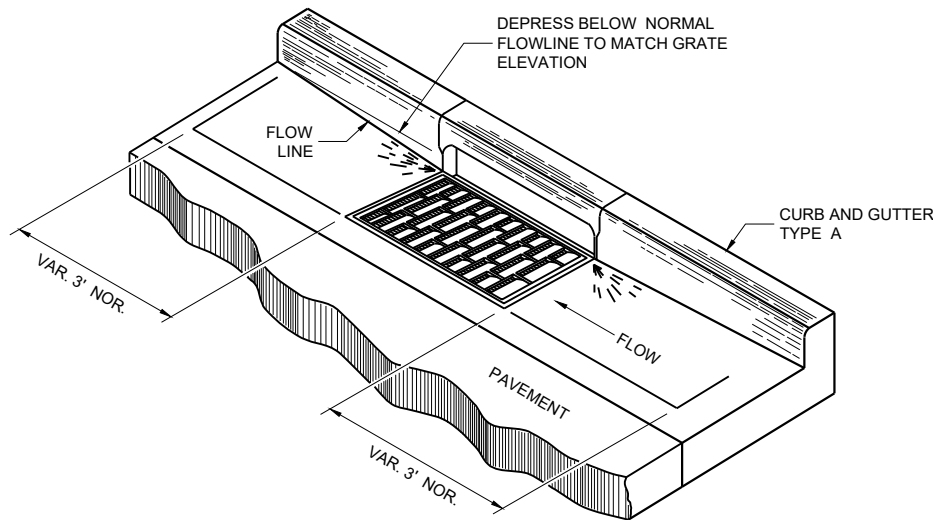
- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH 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 CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

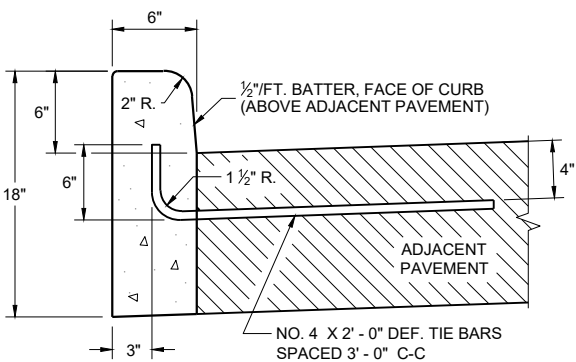


END SECTION CURB AND GUTTER

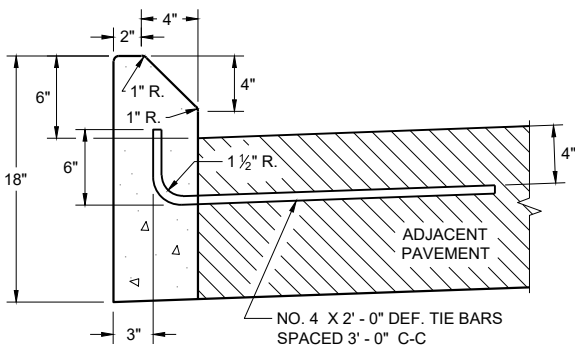


DETAIL OF CURB AND GUTTER AT INLETS

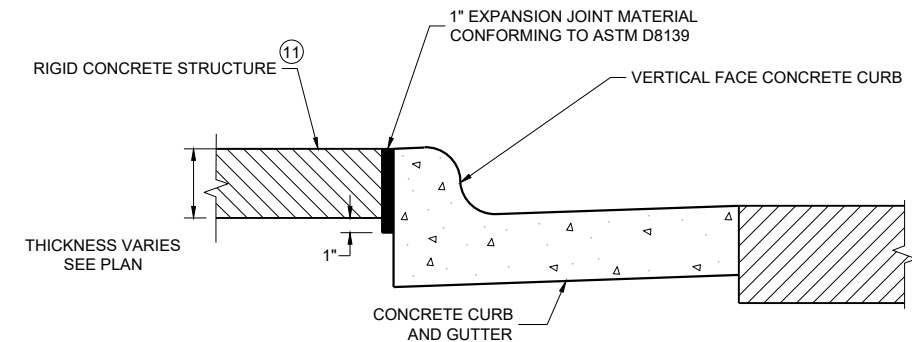
(TYPICAL H INLET COVER SHOWN)



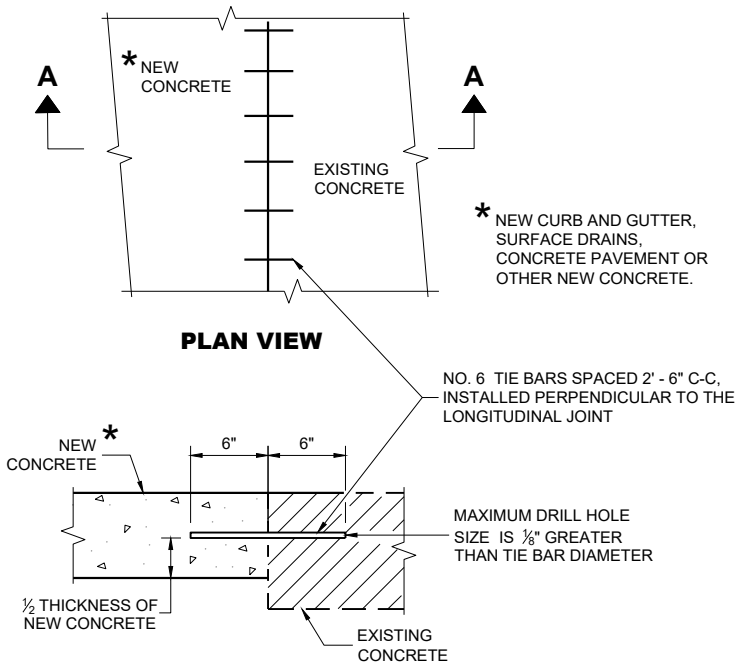
TYPES A^① & D



TYPES G^① & J
CONCRETE CURB



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE^⑪



SECTION A - A
TIE BARS DRILLED INTO EXISTING PAVEMENT

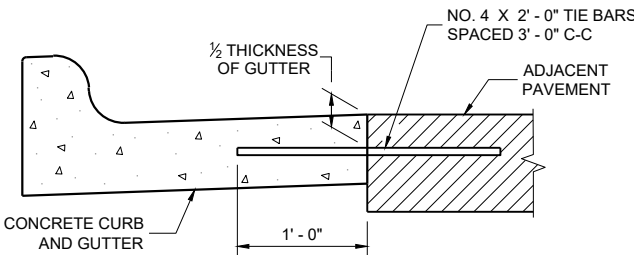
GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

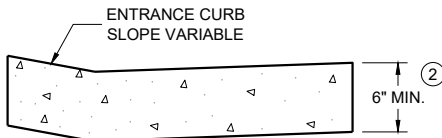
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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.



TYPICAL TIE BAR LOCATION^①

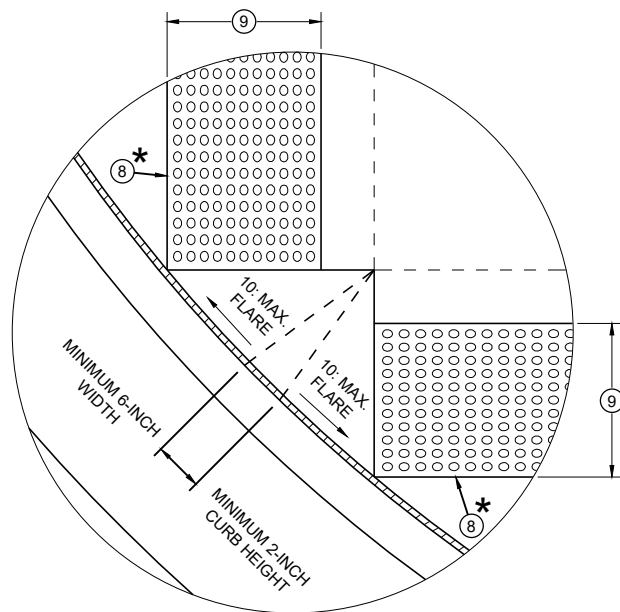


DRIVEWAY ENTRANCE CURB^⑩
(WHEN DIRECTED BY THE ENGINEER)

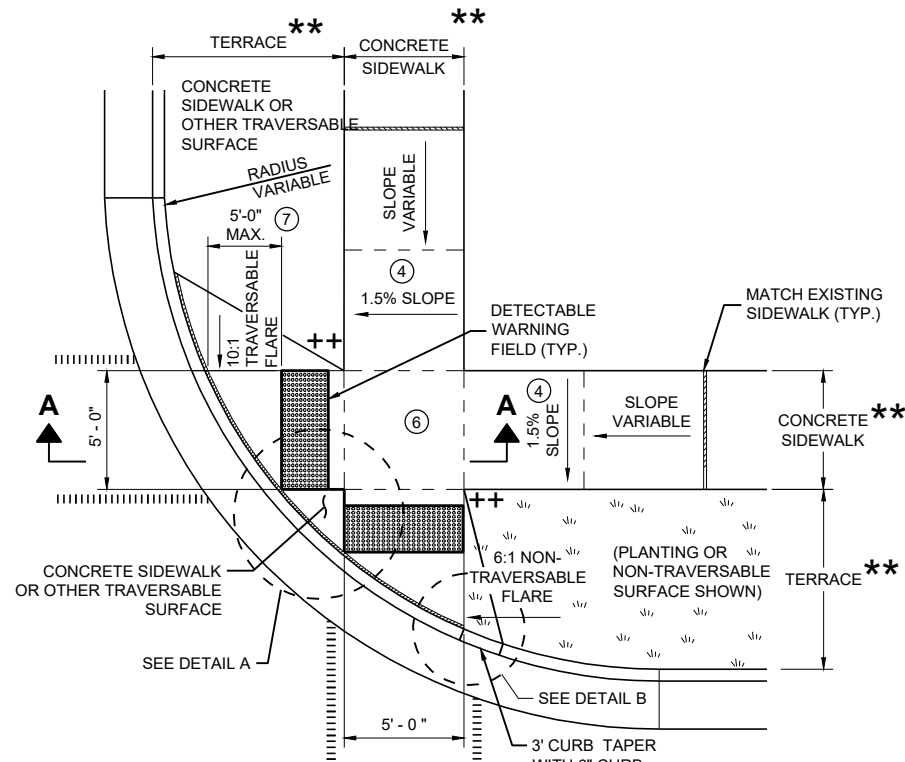
CONCRETE CURB, TIES
AND CURB AND GUTTER
APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

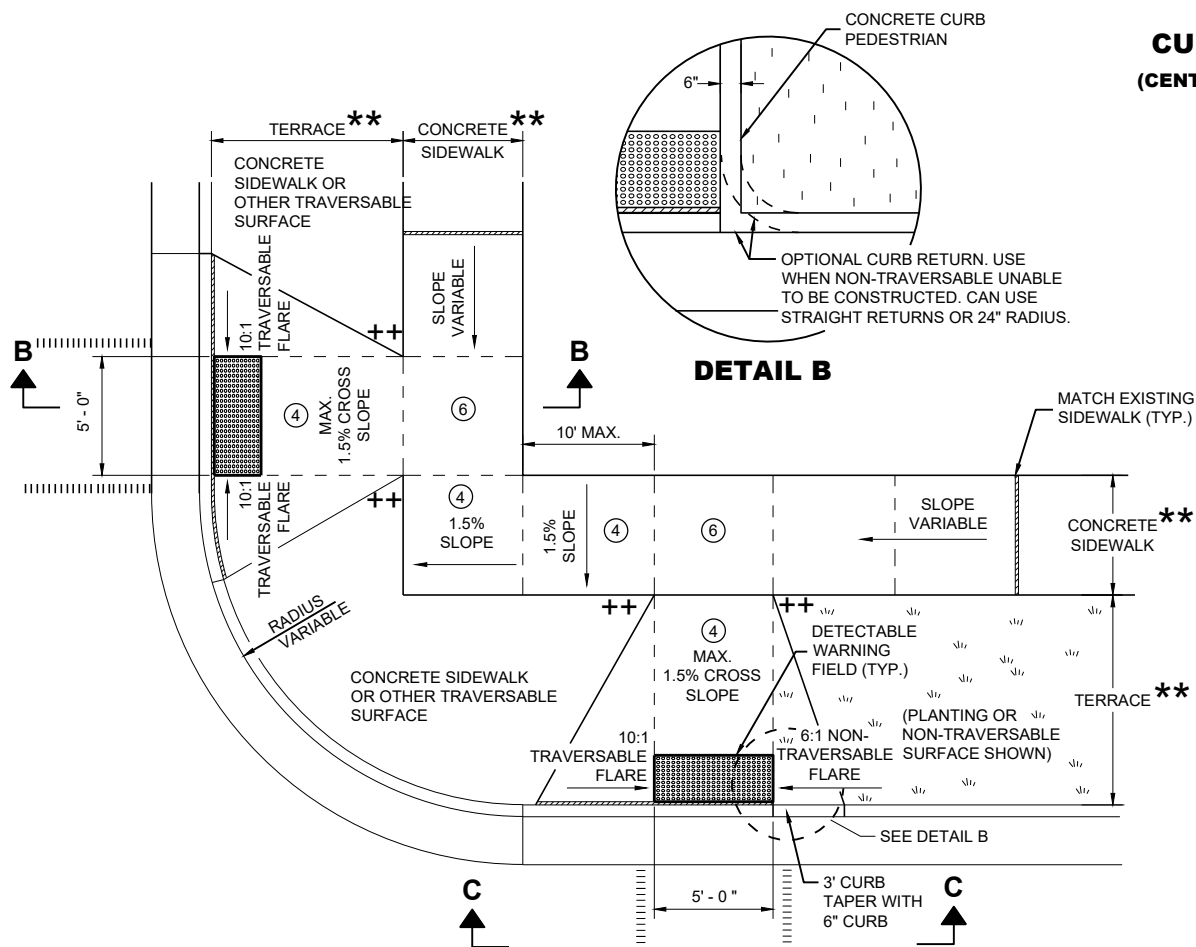
APPROVED
May 2023 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA UNIT SUPERVISOR



DETAIL A

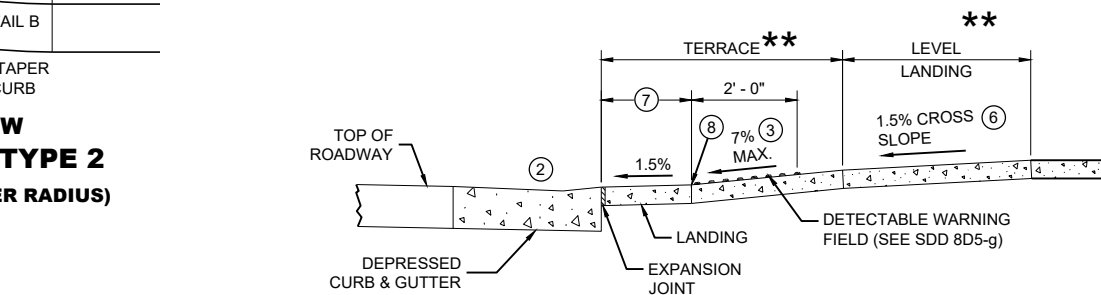


PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

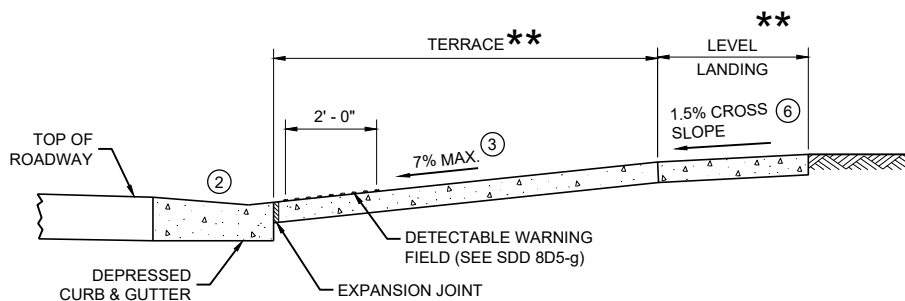


DETAIL B

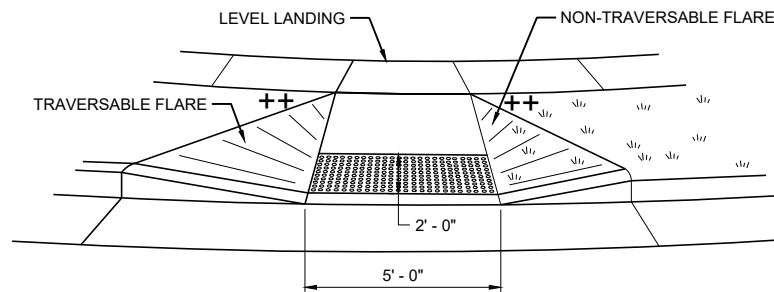
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION A - A FOR TYPE 2



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

GENERAL NOTES

- AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.
- GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4 - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
 - AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.
 - ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
 - PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.
 - WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
 - PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
 - WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

* MAXIMUM 2.0% SLOPE
IN ALL DIRECTIONS IN
FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE
IN THE PLANS

++ CONSTRUCT 6" WEDGE TO
AVOID CONCRETE BREAKAGE

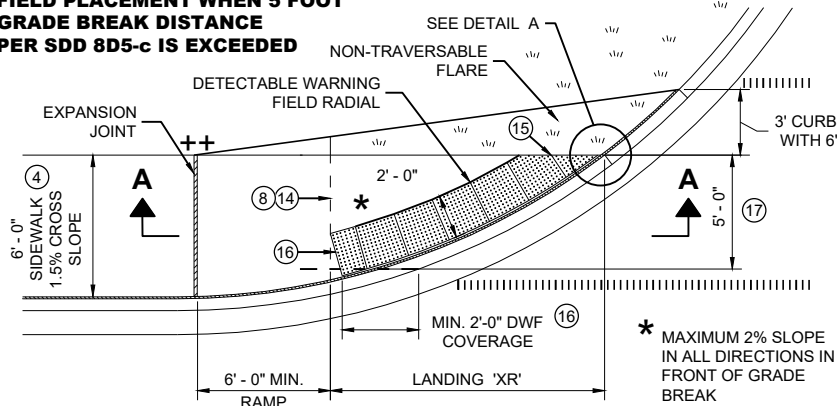
LEGEND

- 1/2" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

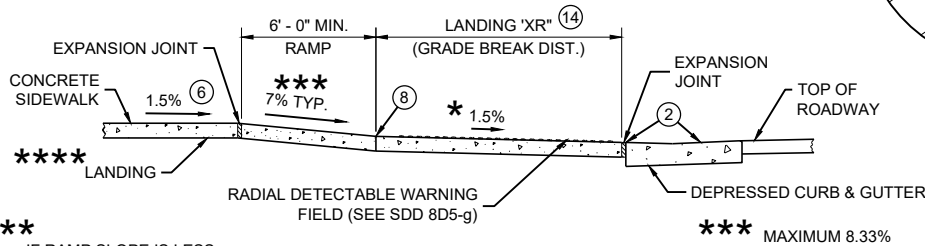
CURB RAMPS
TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

**RADIAL DETECTABLE WARNING
FIELD PLACEMENT WHEN 5 FOOT
GRADE BREAK DISTANCE
PER SDD 8D5-c IS EXCEEDED**

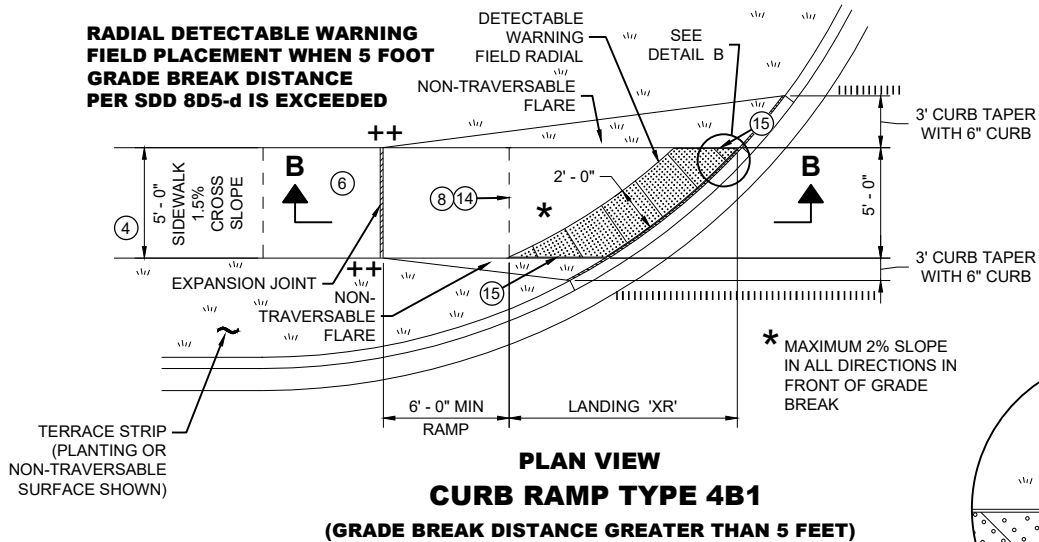


**PLAN VIEW
CURB RAMP TYPE 4A1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)**

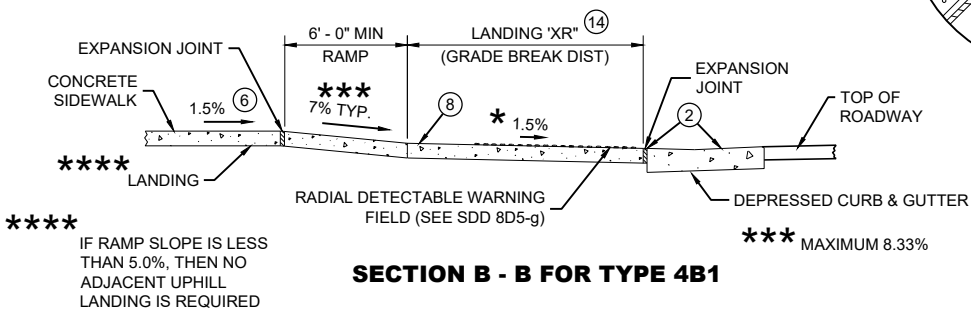


SECTION A - A FOR TYPE 4A1

**RADIAL DETECTABLE WARNING
FIELD PLACEMENT WHEN 5 FOOT
GRADE BREAK DISTANCE
PER SDD 8D5-d IS EXCEEDED**



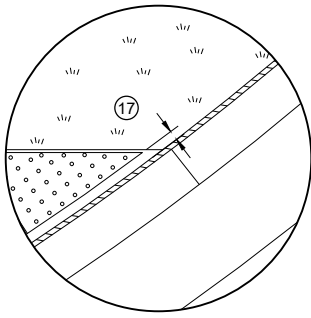
**PLAN VIEW
CURB RAMP TYPE 4B1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)**



SECTION B - B FOR TYPE 4B1

LEGEND

- 1/2" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



DETAIL A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

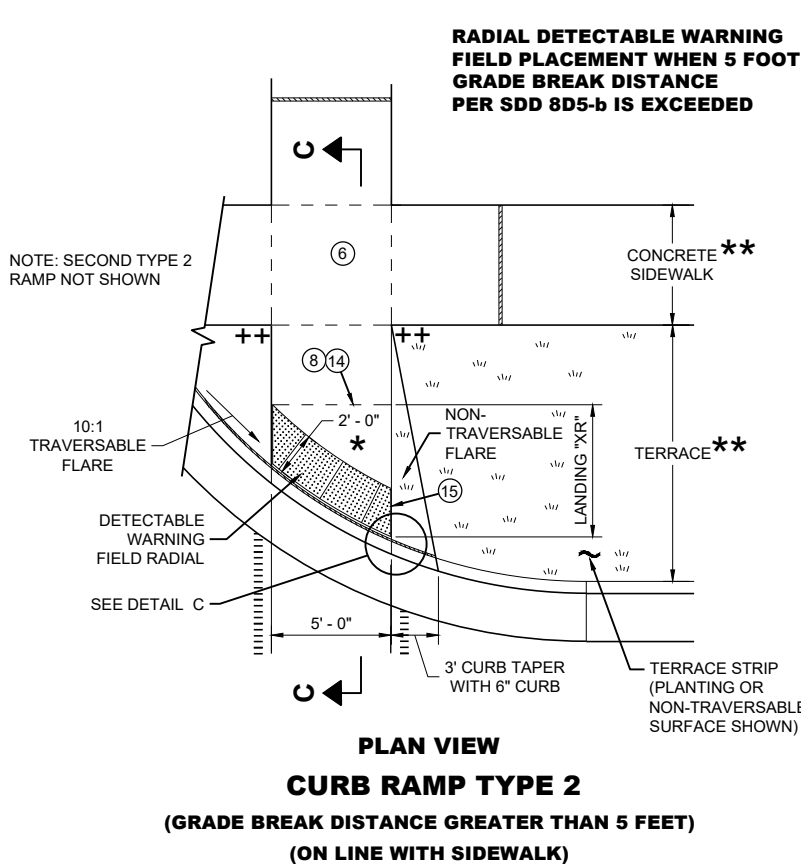
REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

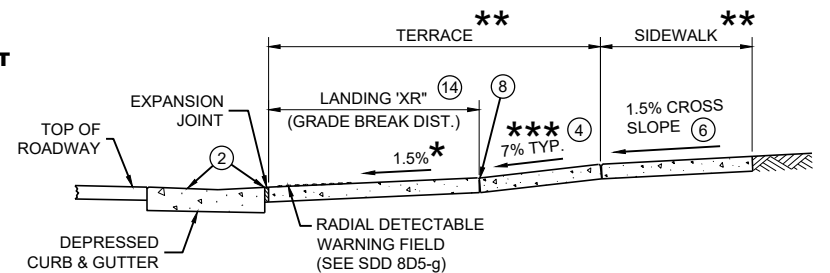
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

- 2 GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4" INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- 3 AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- 4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- 6 PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.
- 8 PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- 14 CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.
- 15 FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/2" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.
- 16 USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.
- 17 A MAXIMUM 3 INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

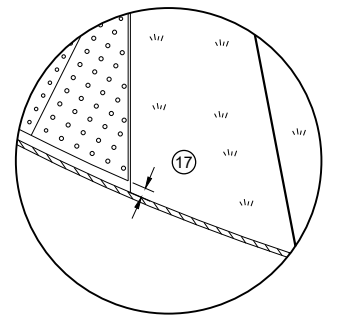
**RADIAL DETECTABLE WARNING
FIELD PLACEMENT WHEN 5 FOOT
GRADE BREAK DISTANCE
PER SDD 8D5-b IS EXCEEDED**



**PLAN VIEW
CURB RAMP TYPE 2
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)**



SECTION C - C FOR TYPE 2



DETAIL C

*** MAXIMUM 2% SLOPE
IN ALL DIRECTIONS IN
FRONT OF GRADE
BREAK

** WIDTH SHOWN ELSEWHERE
IN THE PLANS

*** MAXIMUM 8.33%

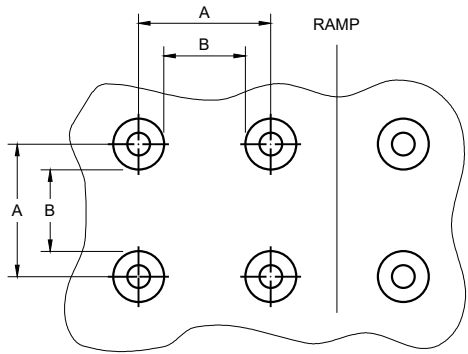
++ CONSTRUCT 6" WEDGE TO
AVOID CONCRETE BREAKAGE

**CURB RAMPS
RADIAL DETECTABLE WARNING**

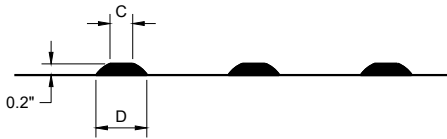
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

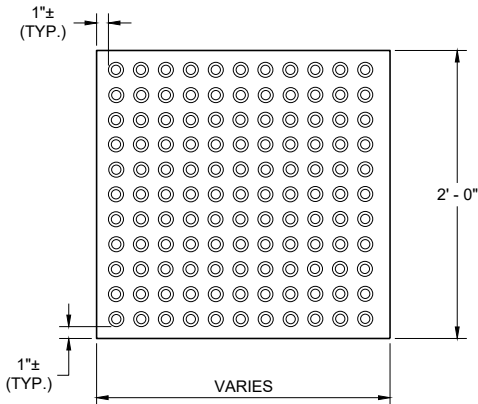


PLAN VIEW

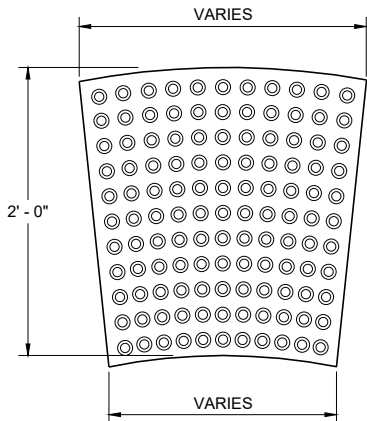


ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

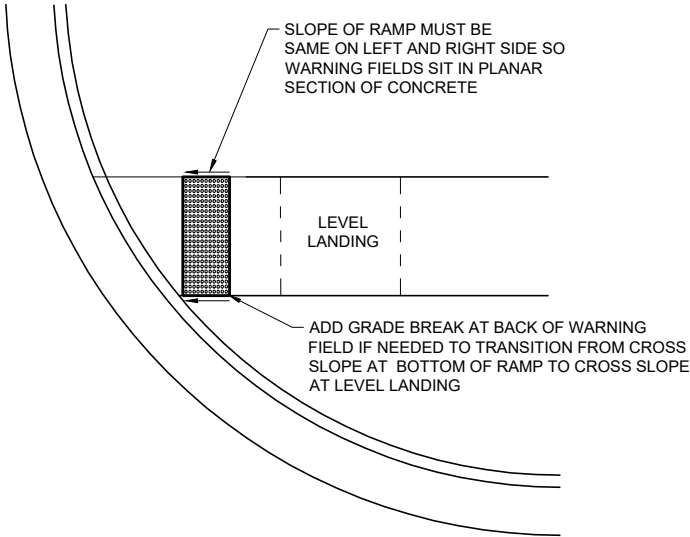


RECTANGULAR
PLATES



RADIAL
PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

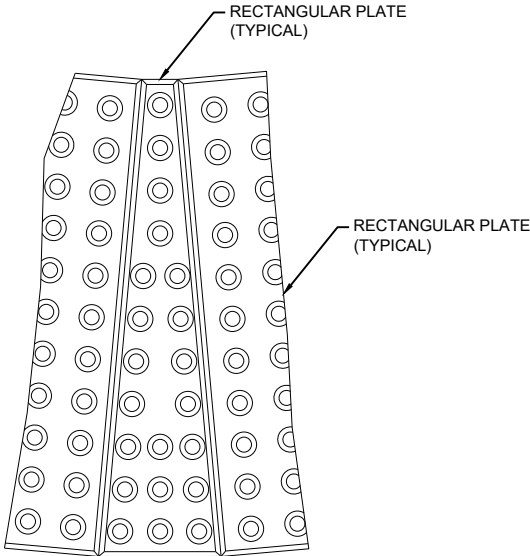
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

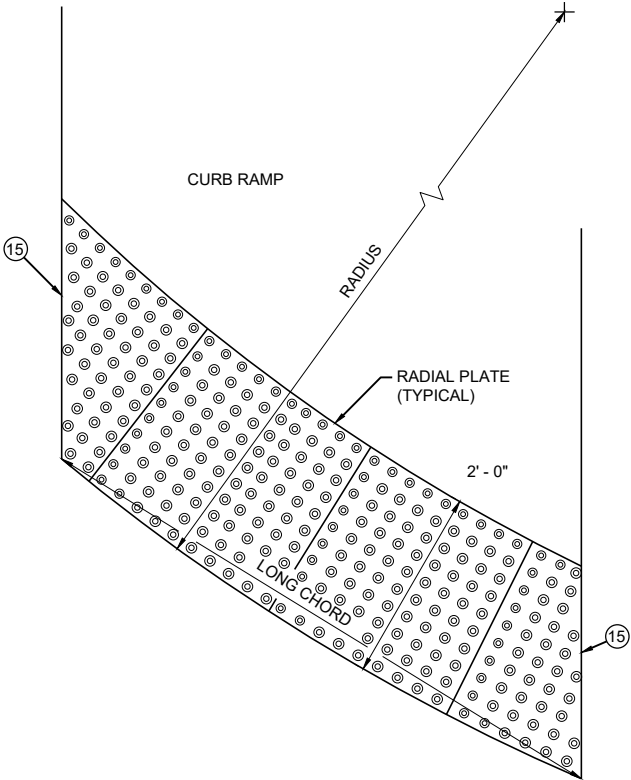
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

15 FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL WEDGE PLATE
CONNECTION DETAIL



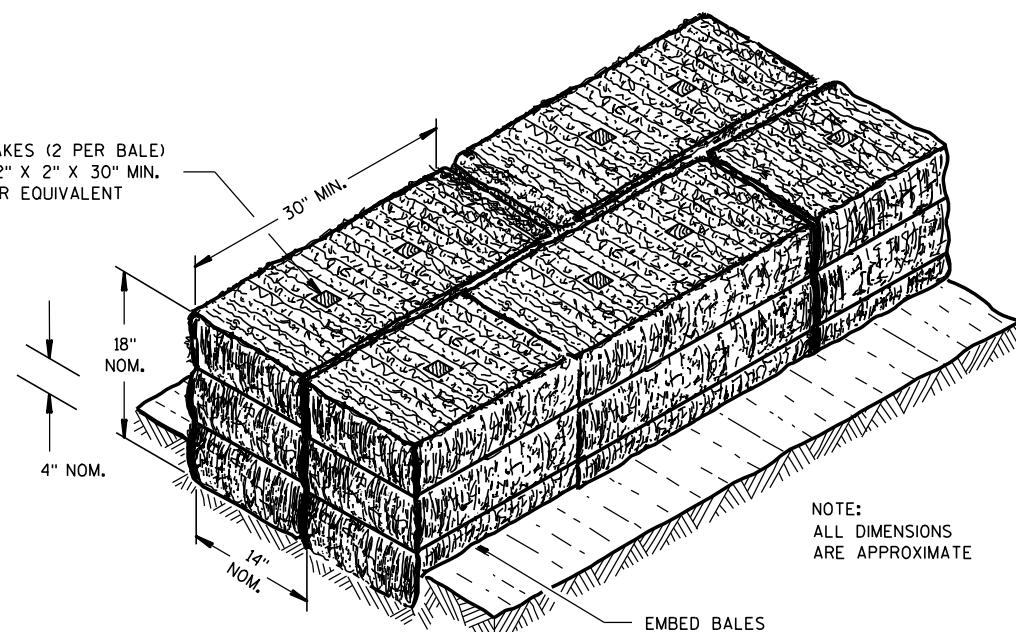
PLAN VIEW
RADIAL DETECTABLE
WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

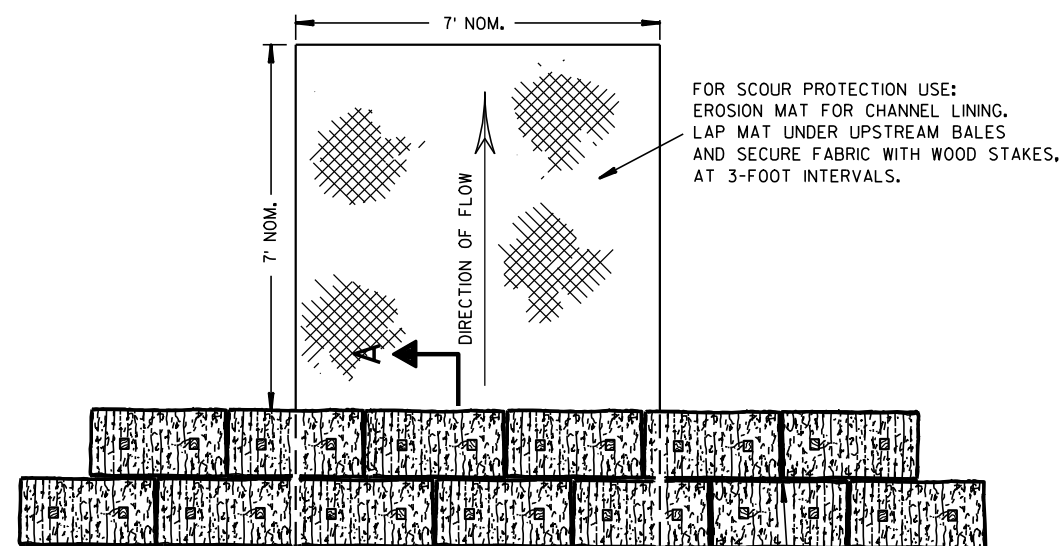
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA UNIT SUPERVISOR

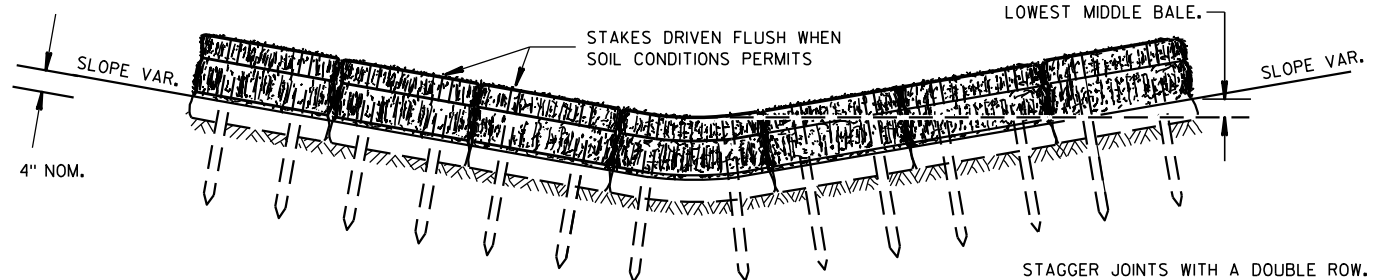
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



SECTION A-A



PLAN VIEW



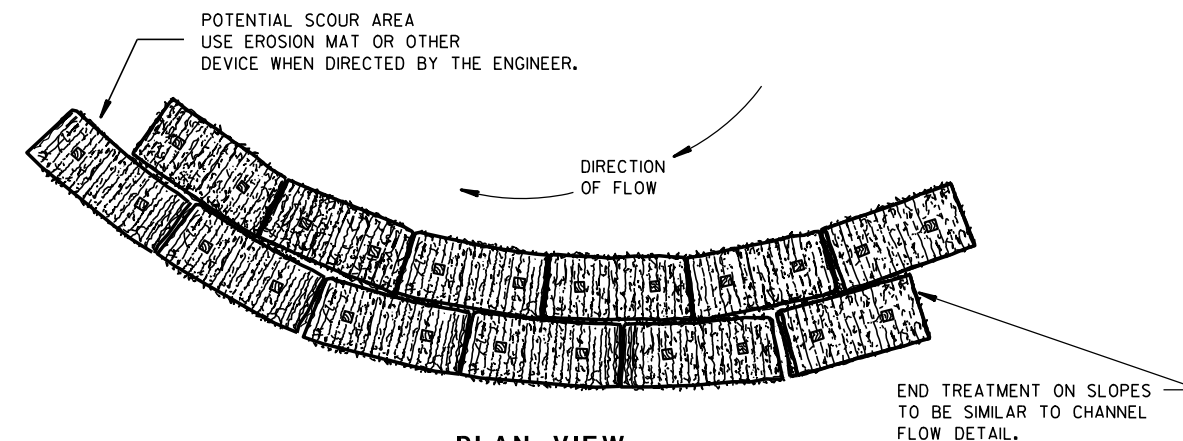
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

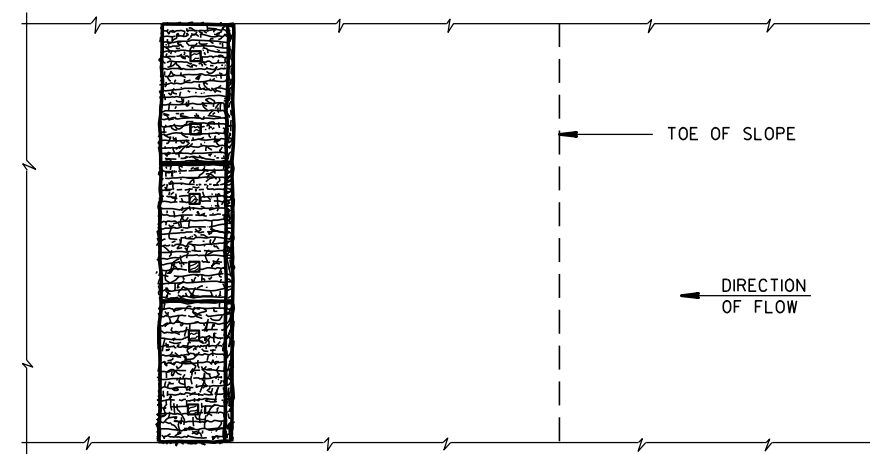
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- 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.

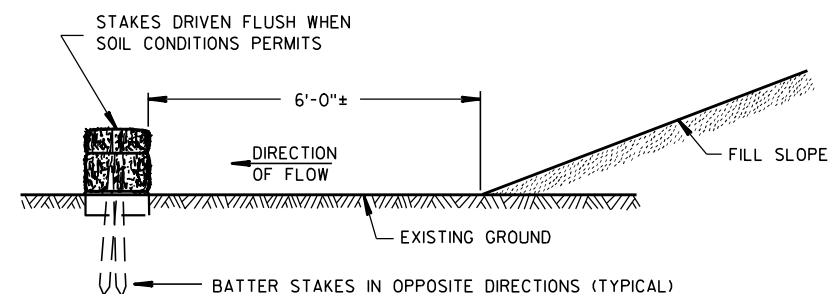


PLAN VIEW

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

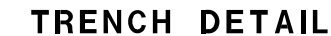
6/04/02
DATE/S/ Beth Connors
CHIEF ROADWAY DEVELOPER

ENGINEER

FHWA



- 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 1½" X 1½" 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.



SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

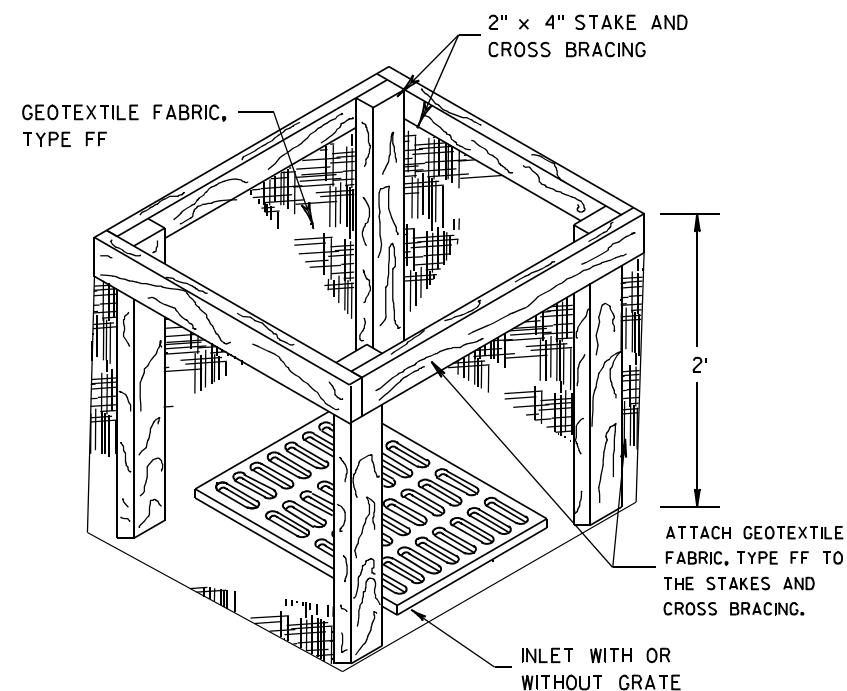
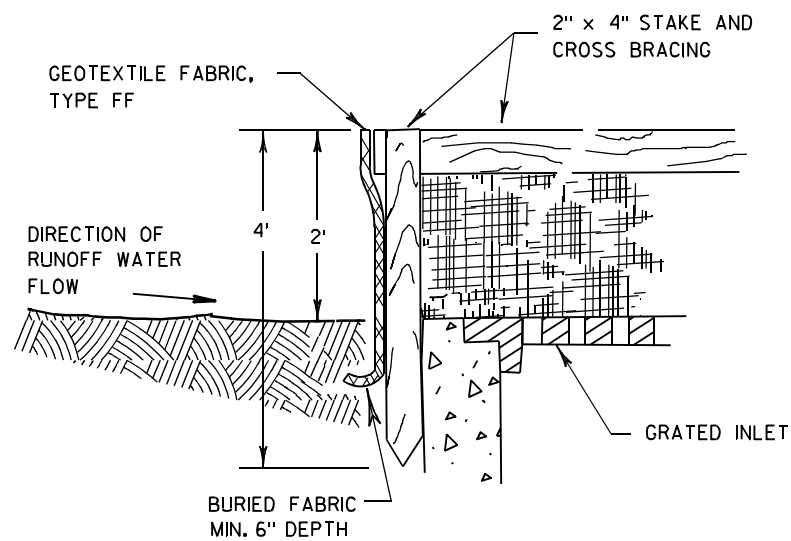
APPROVED
4-29-05
DATE

/S/ Beth Connolly
CHIEF ROADWAY DEVELOPMENT

98

ENGINEER

FHWA



INLET PROTECTION, TYPE A

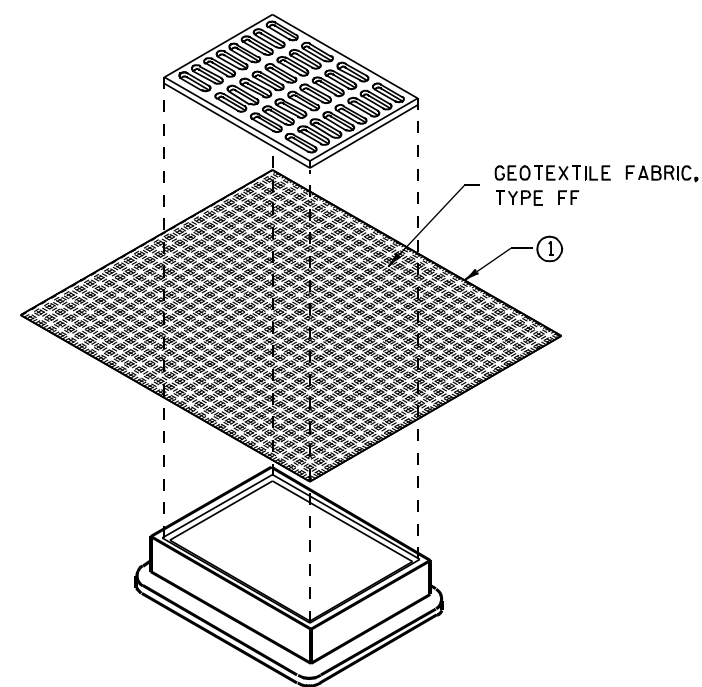
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

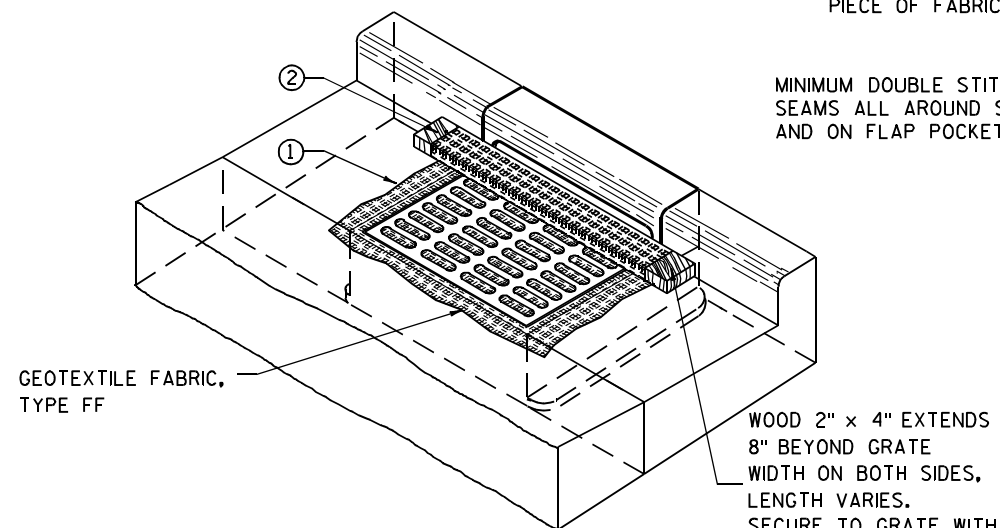
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

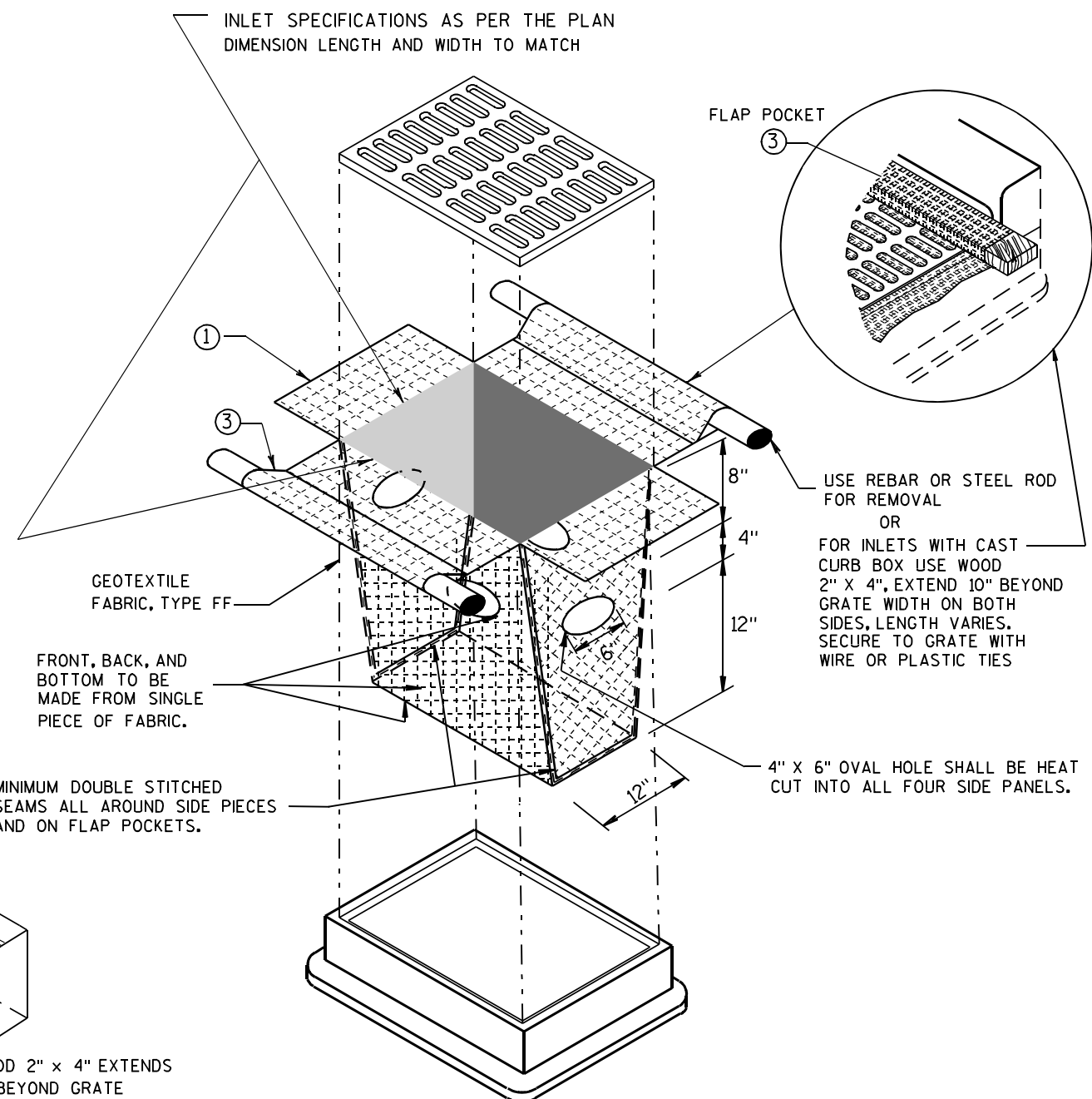
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



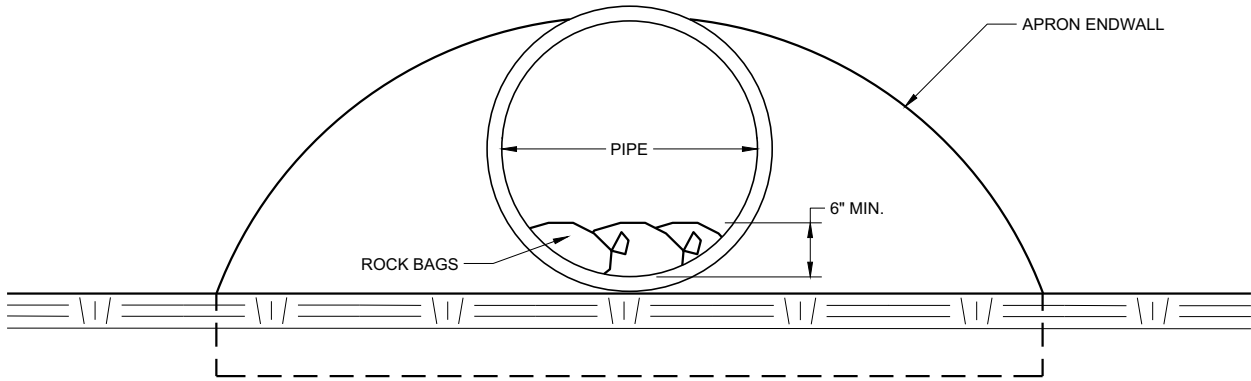
INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

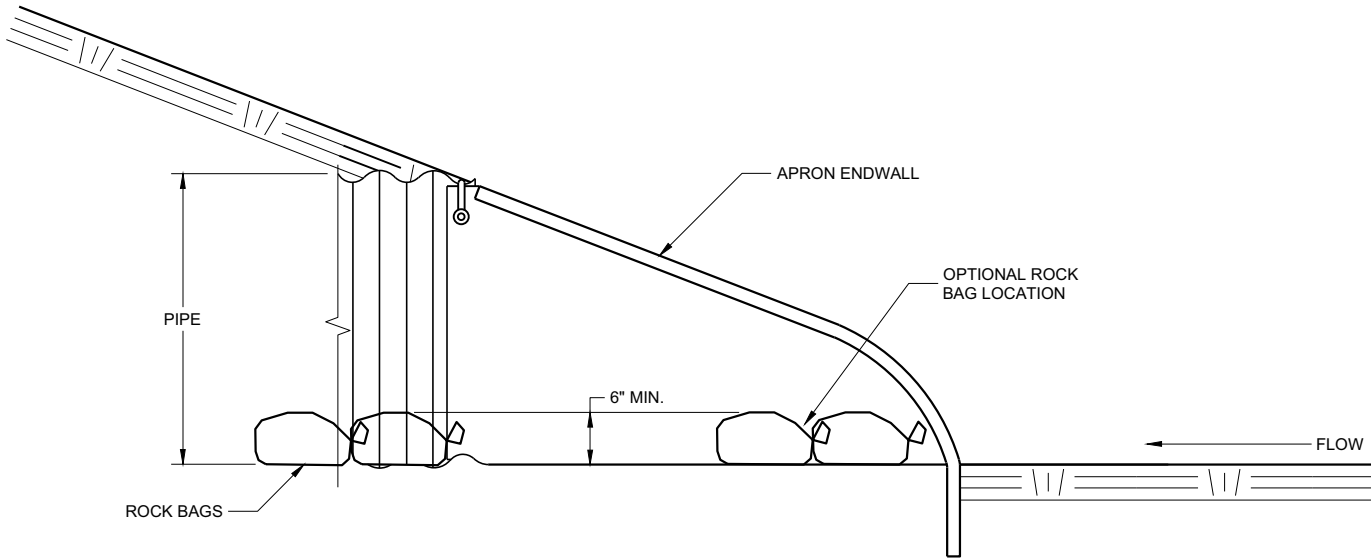
**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 /S/ Beth Connolly
DATE 99
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER



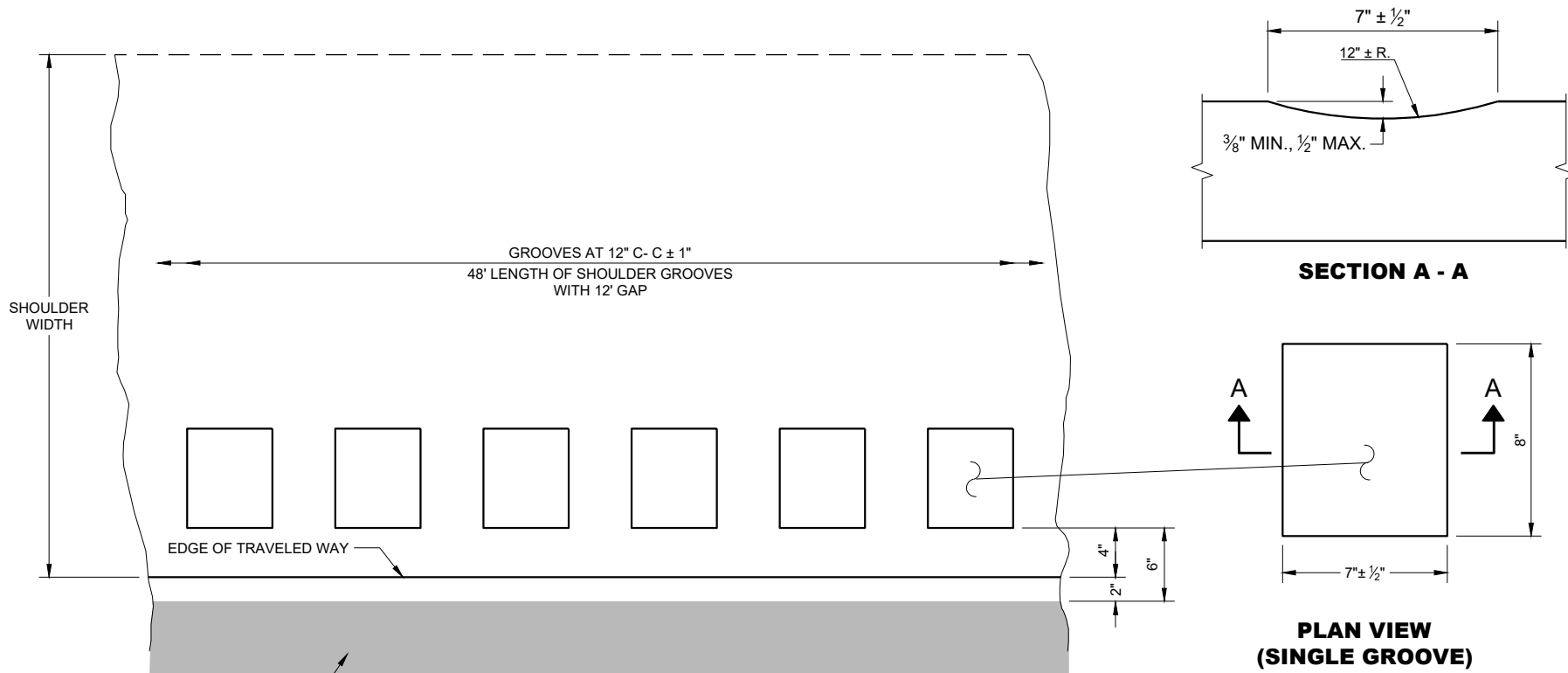
END VIEW



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	
FHWA	EROSION CONTROL ENGI	100

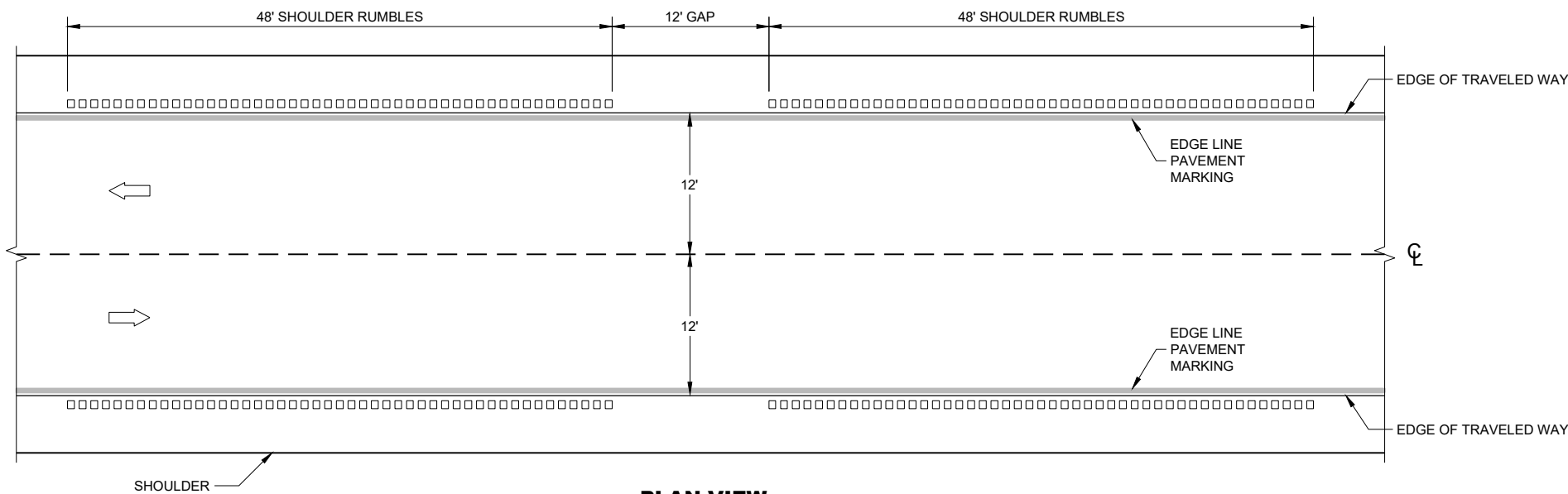
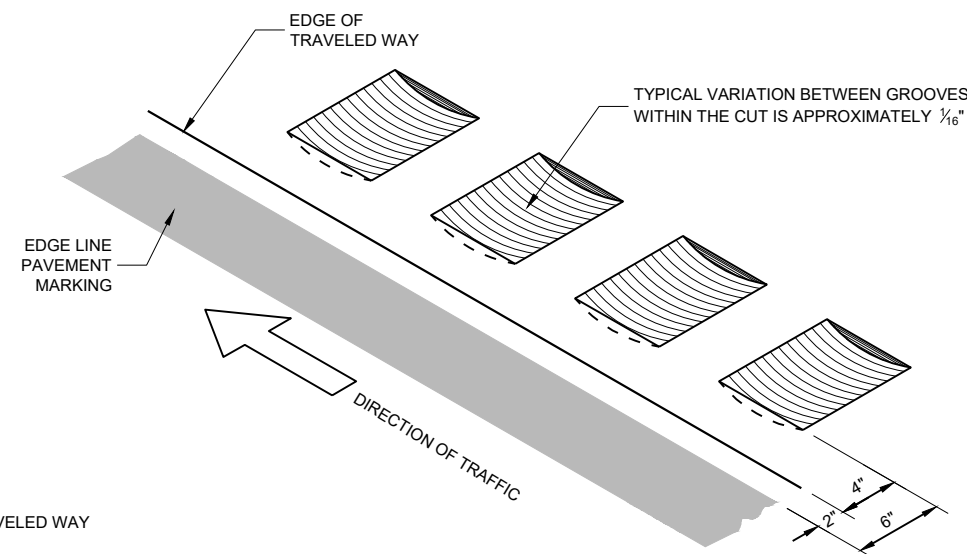


PLAN DETAIL VIEW
SHOULDER WITH GROOVES

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.

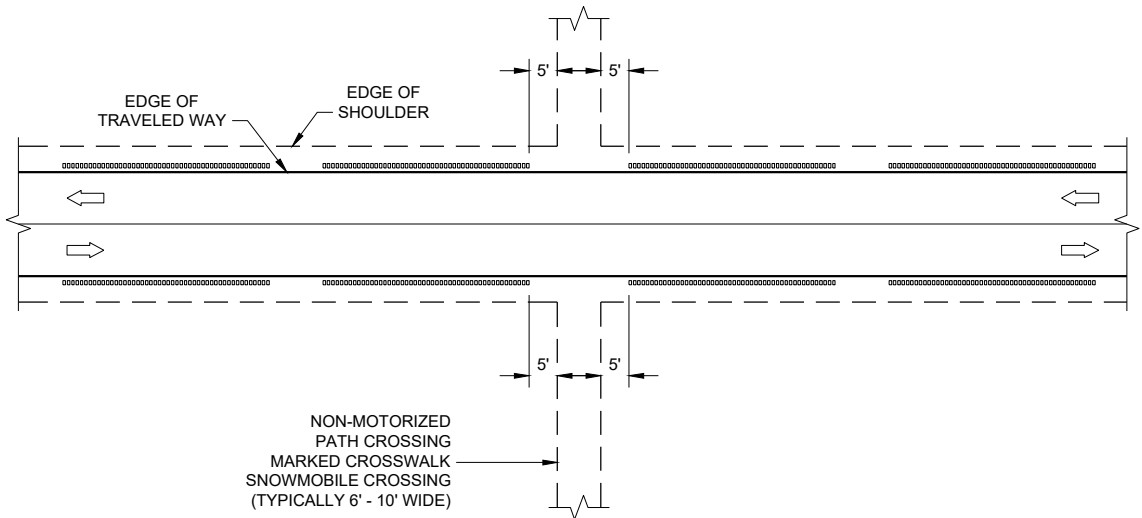


PLAN VIEW

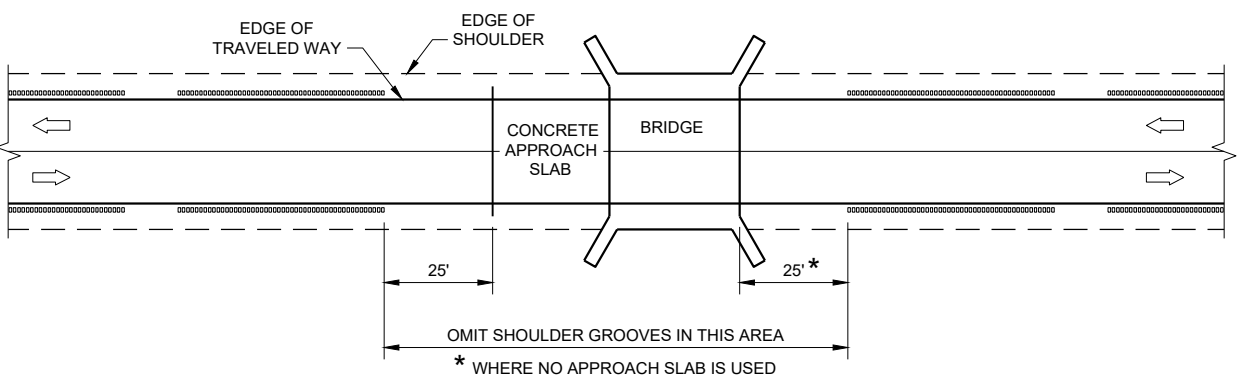
SHOULDER RUMBLE STRIPS - ASPHALT

**SHOULDER RUMBLE
STRIPS ASPHALT**

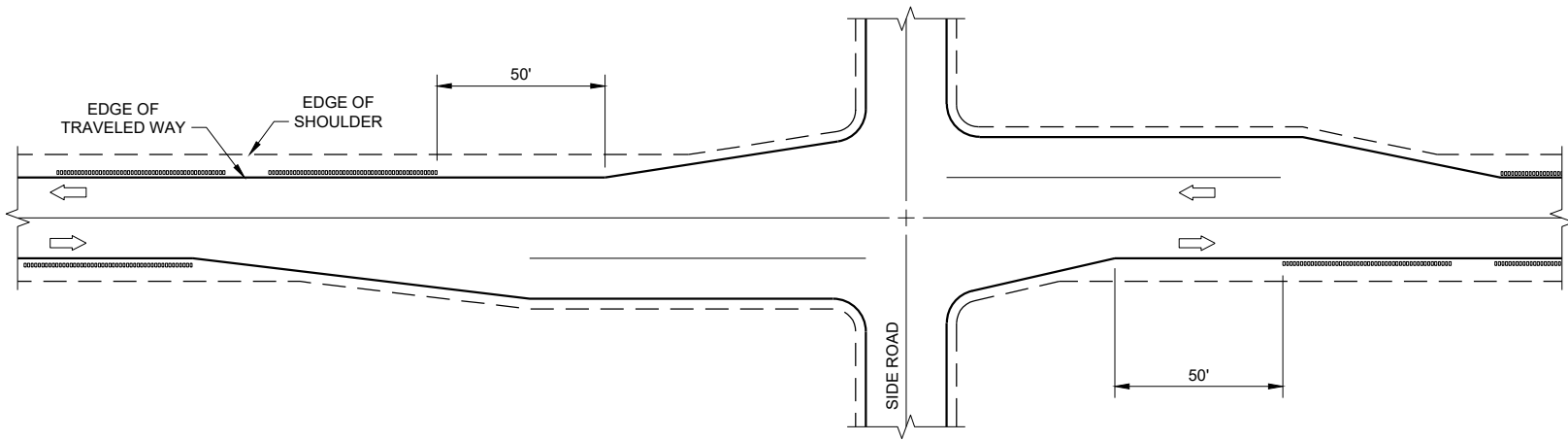
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 101



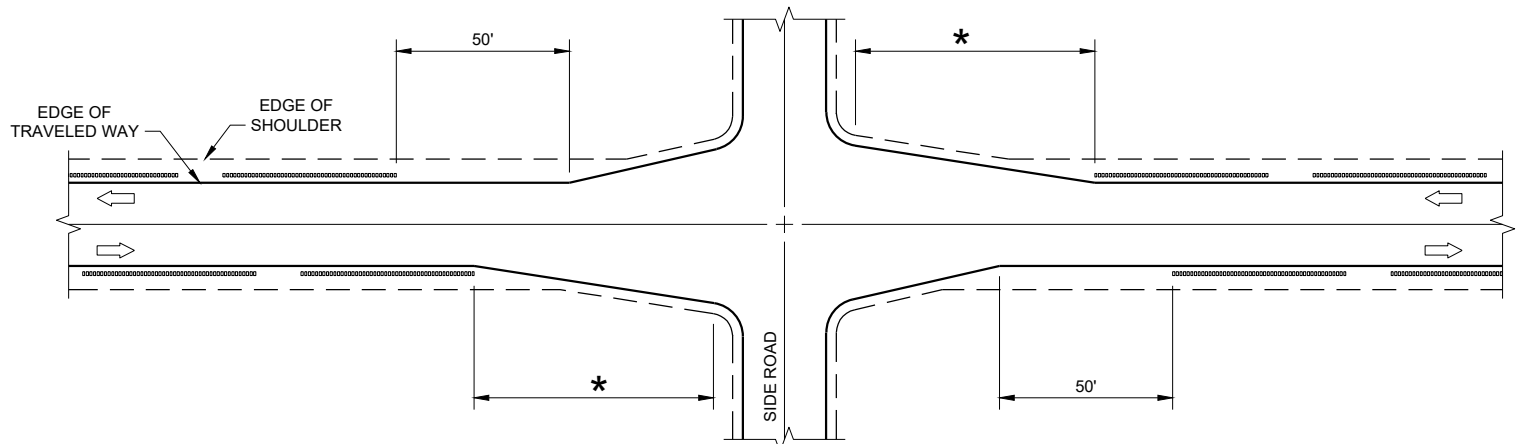
GROOVES AT MISCELLANEOUS CROSSINGS



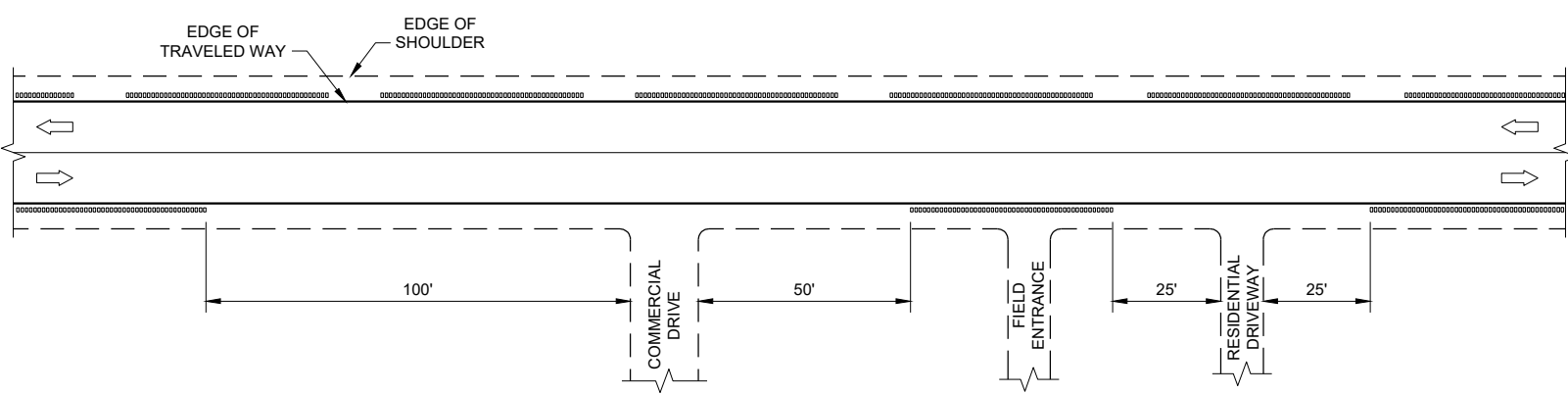
GROOVES AT BRIDGES



GROOVES AT RIGHT TURN LANE



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



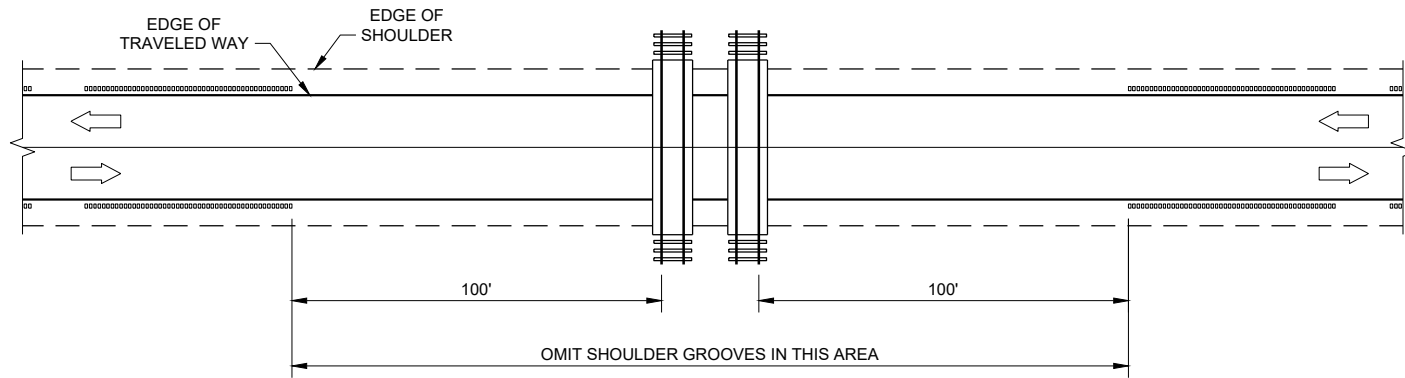
GROOVES AT DRIVEWAYS

GENERAL NOTES

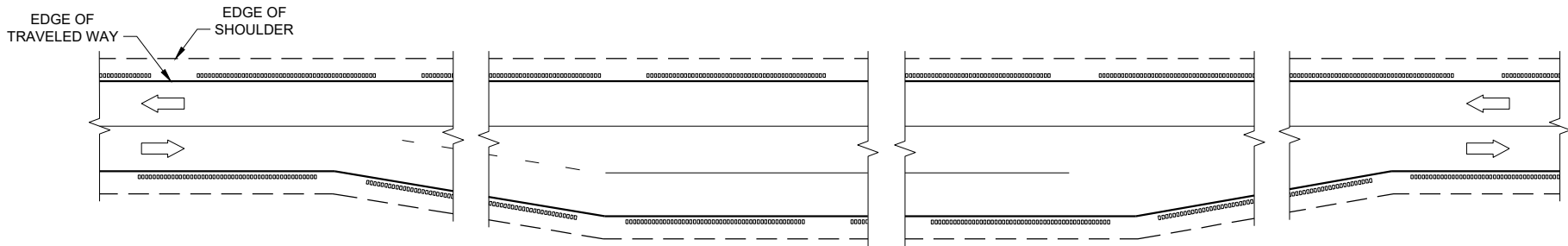
- ① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

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

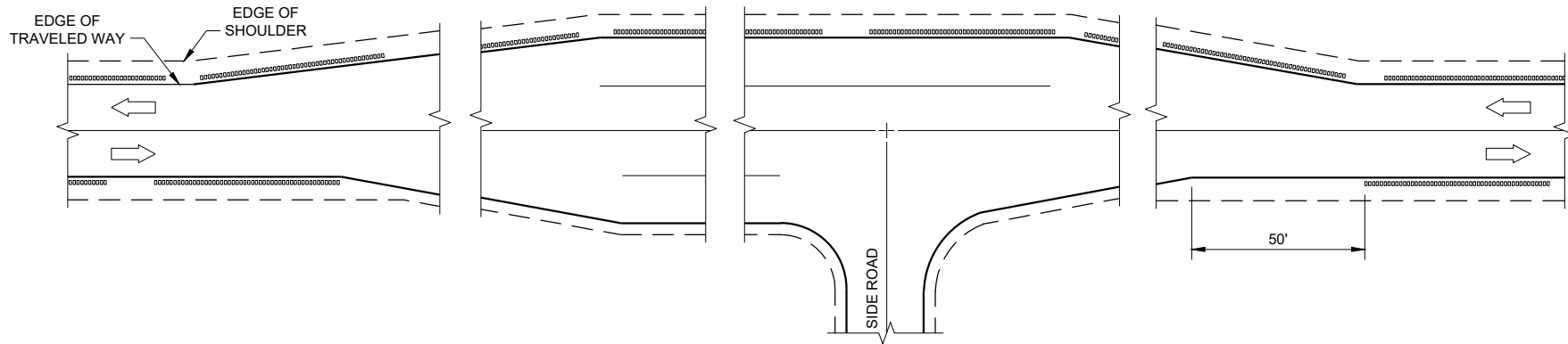
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GROOVES AT RAILROADS



GROOVES AT PASSING AND CLIMBING LANES

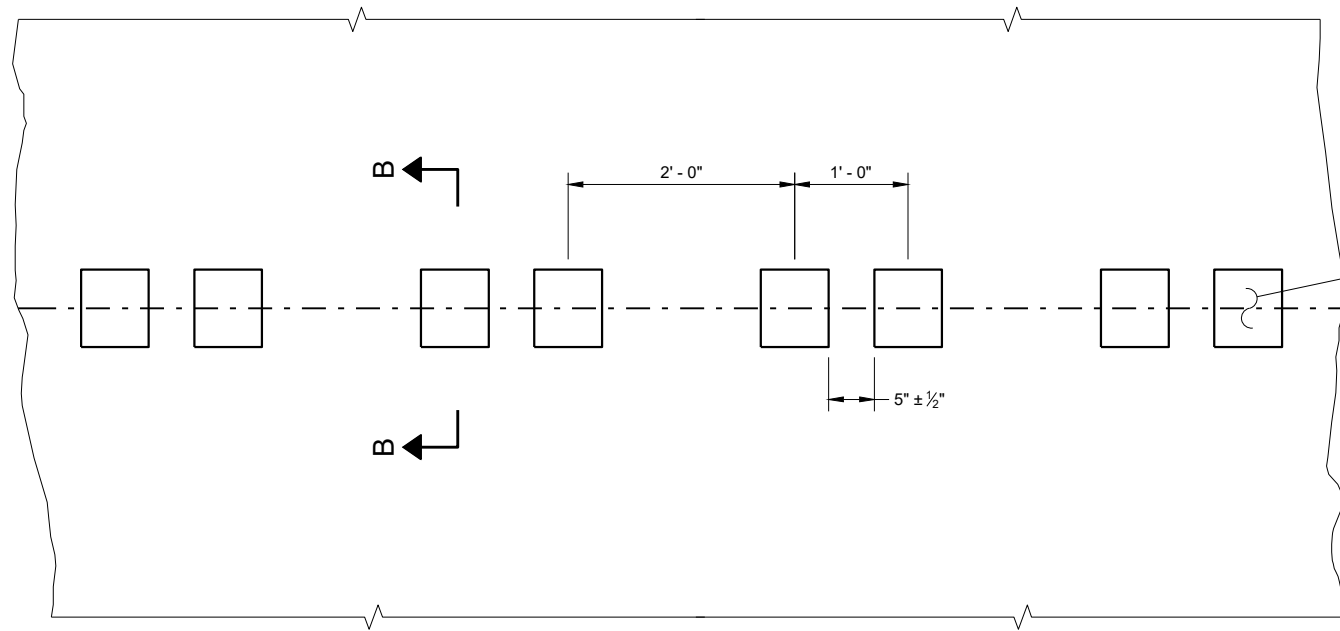


GROOVES AT BYPASS LANES

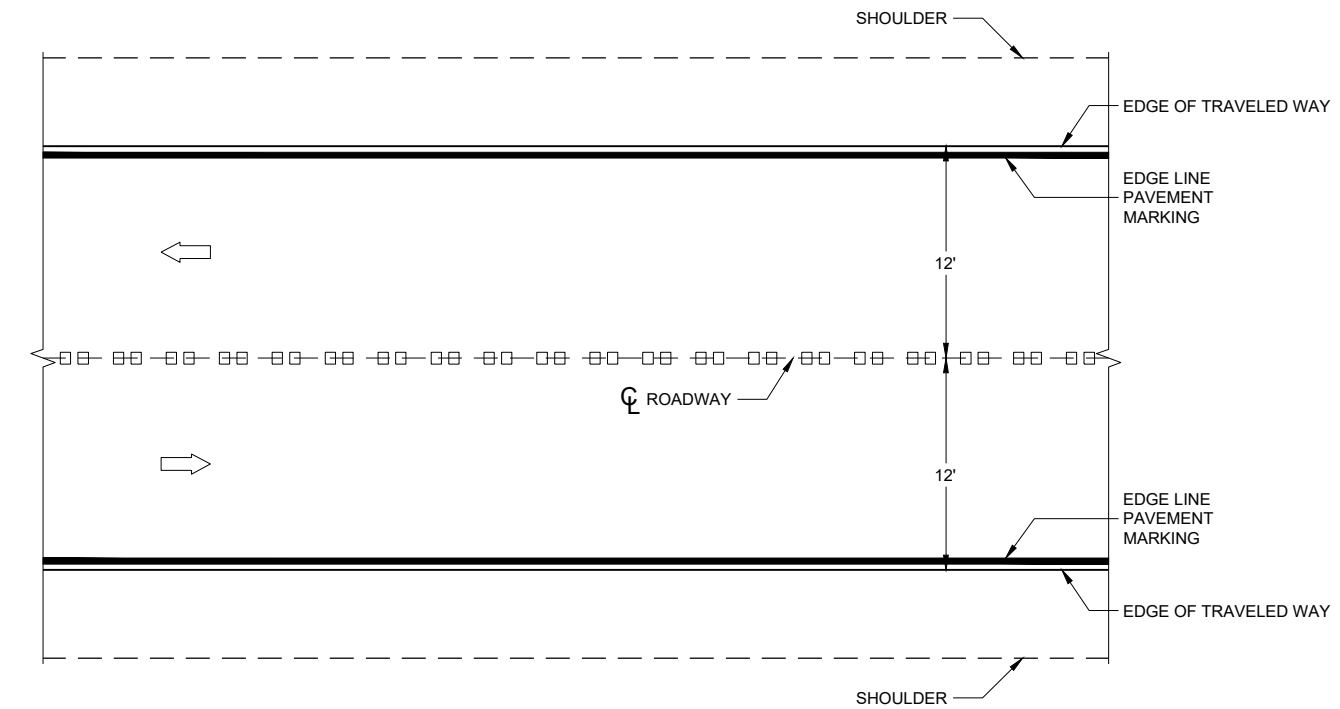
**SHOULDER AND EDGE LINE
RUMBLE STRIPS -
RAILROAD, PASSING,
CLIMBING AND BYPASS LANES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ John Jenkins
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA 103

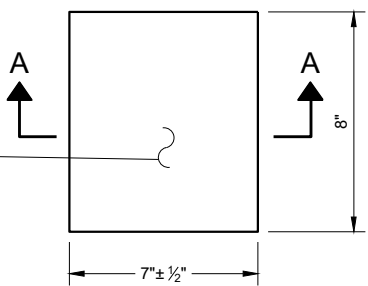


PLAN DETAIL VIEW

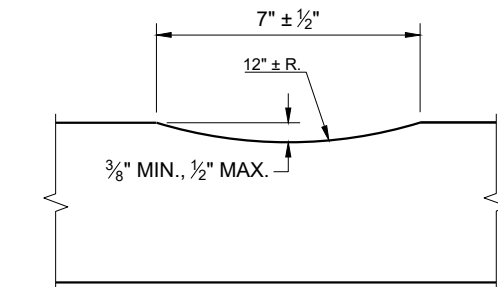


PLAN VIEW

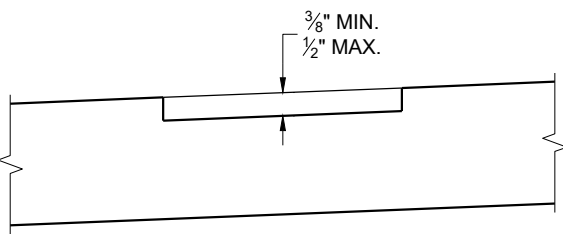
CENTERLINE RUMBLE STRIPS - ASPHALT



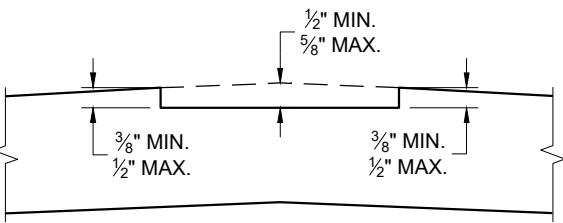
PLAN VIEW
(SINGLE GROOVE)



SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY

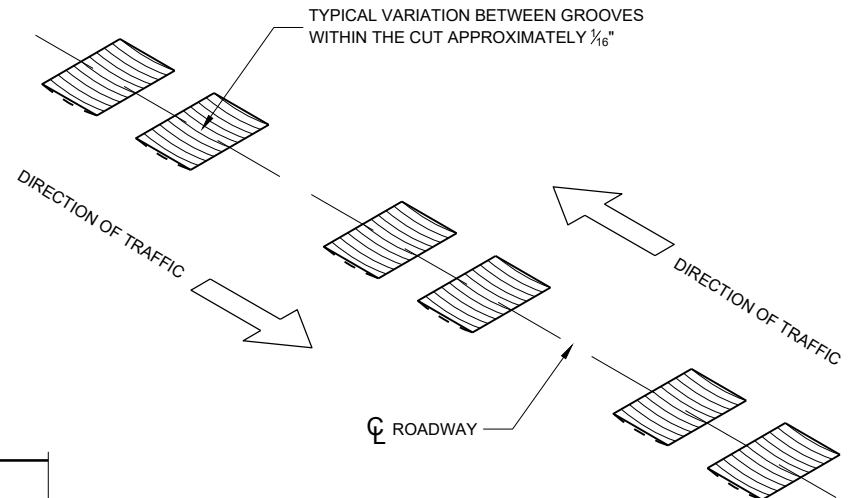


SECTION B - B
CROWNED ROADWAY

GENERAL NOTES

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

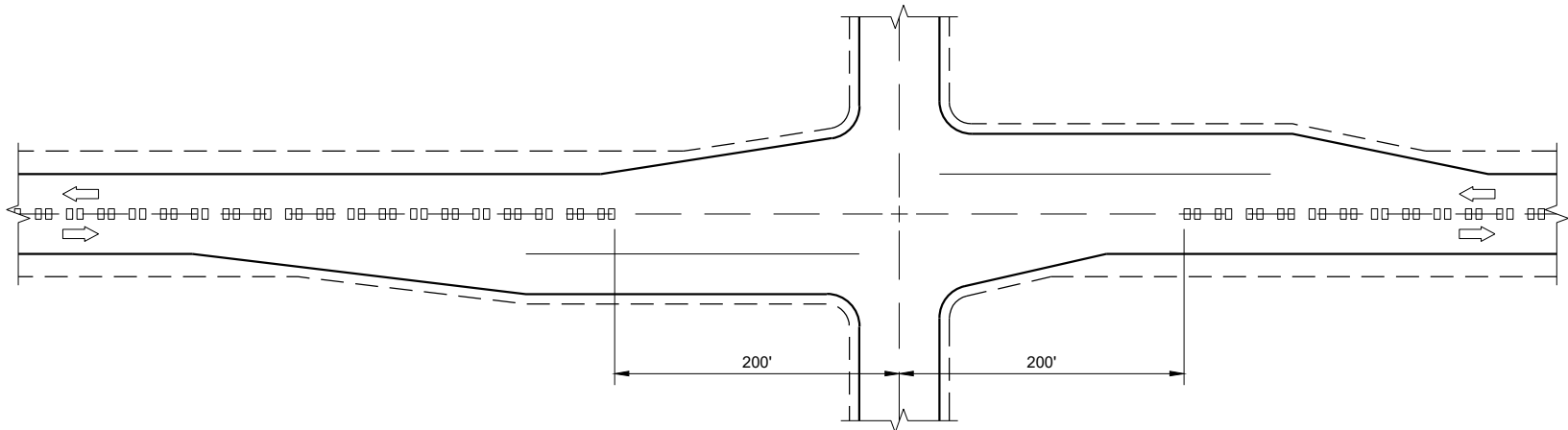
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



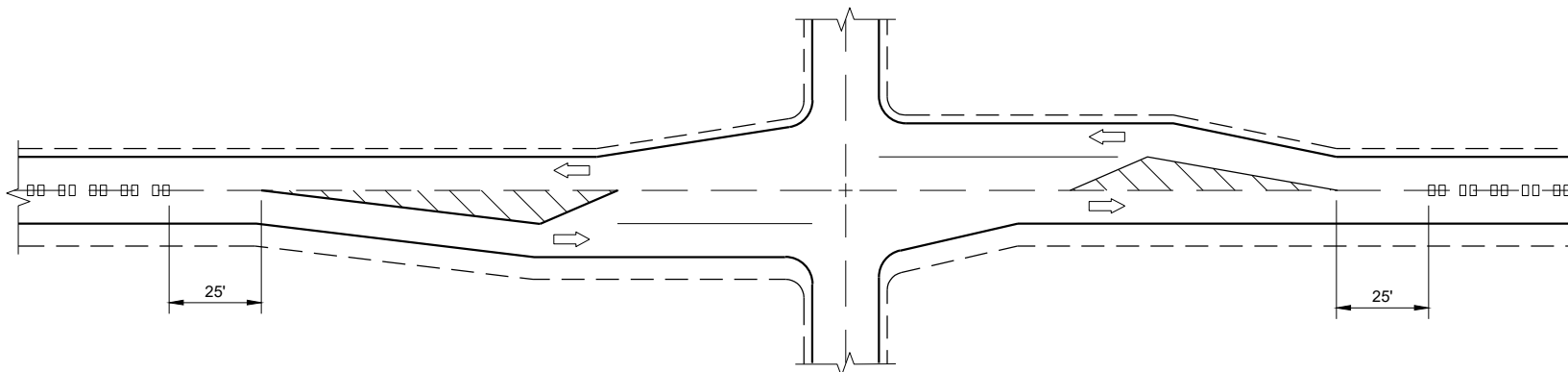
ISOMETRIC

CENTERLINE RUMBLE STRIPS - ASPHALT

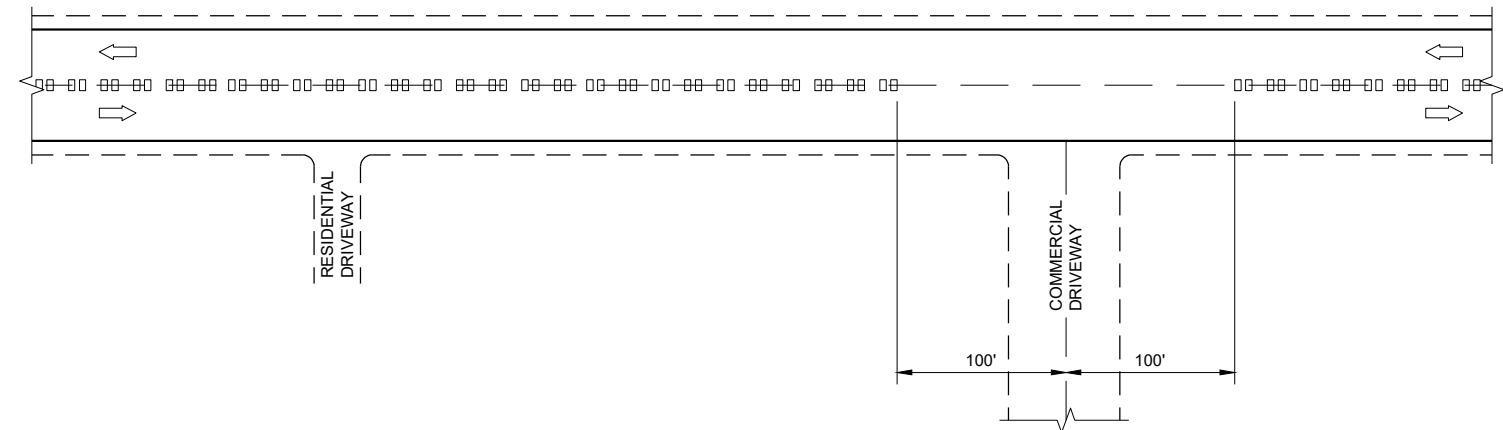
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 104



CENTERLINE GROOVES AT INTERSECTIONS



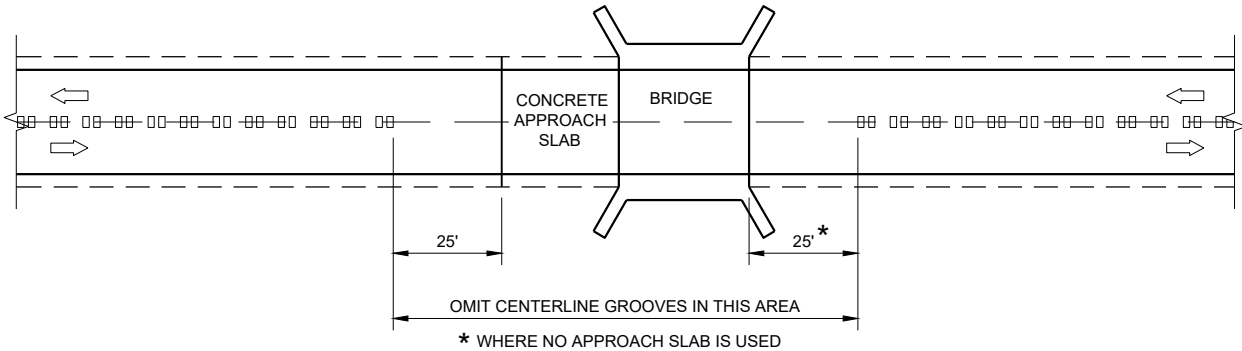
CENTERLINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)



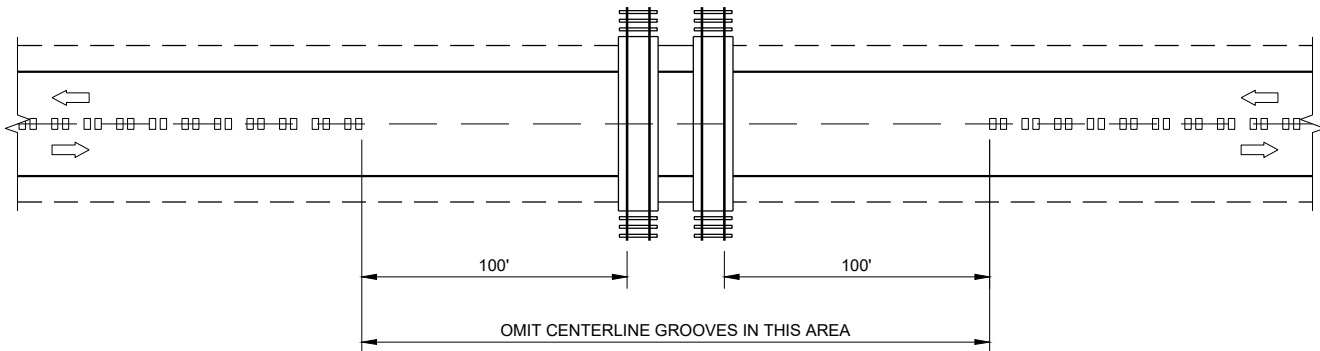
CENTERLINE GROOVES AT DRIVEWAYS^①

GENERAL NOTES

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



CENTERLINE GROOVES AT BRIDGES

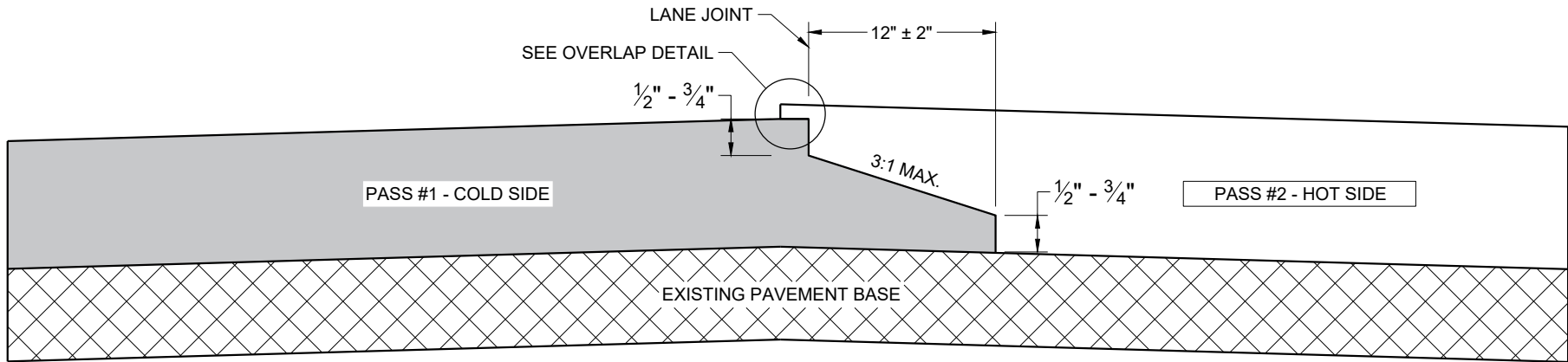


CENTERLINE GROOVES AT RAILROADS

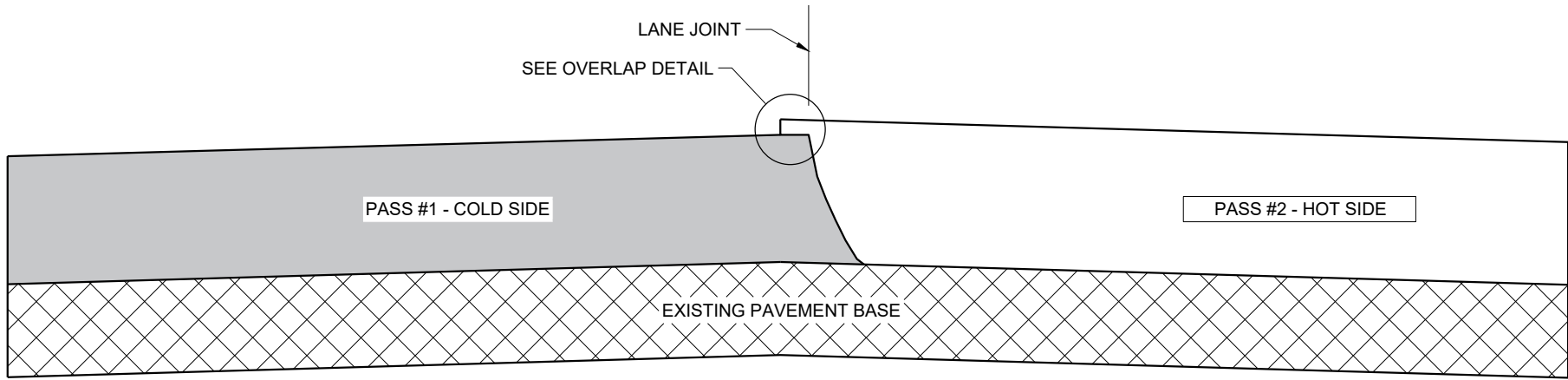
CENTER LINE
RUMBLE STRIPS -
INTERSECTIONS, DRIVEWAYS,
BRIDGES, RAIL ROADS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

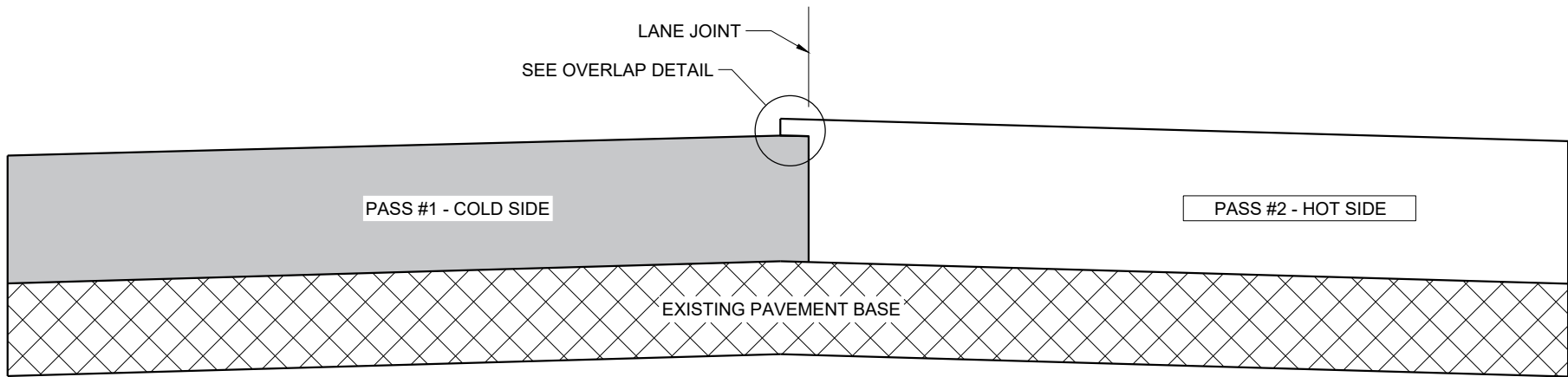
APPROVED
May 2023
DATE
/S/ John Jenkins
ROADWAY STANDARDS DEVELOPMENT ENGINEER



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

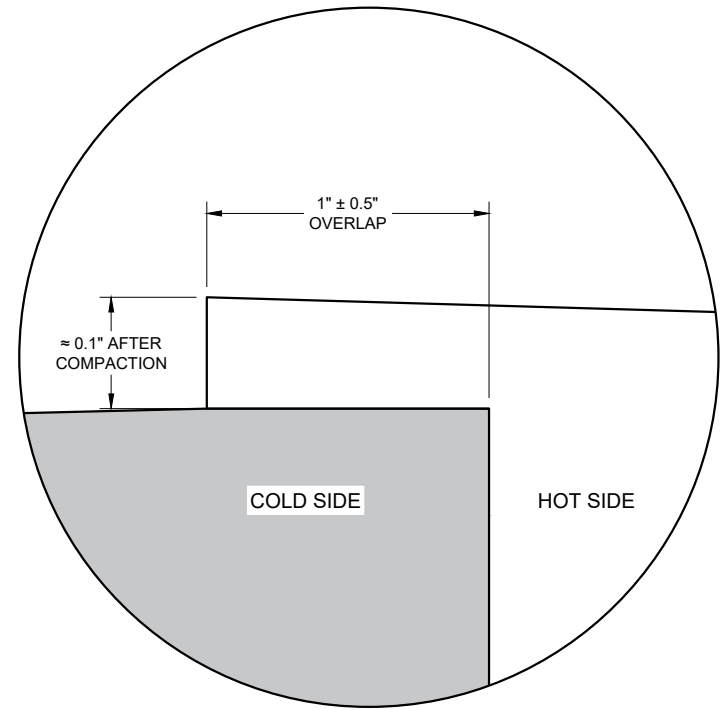
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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.

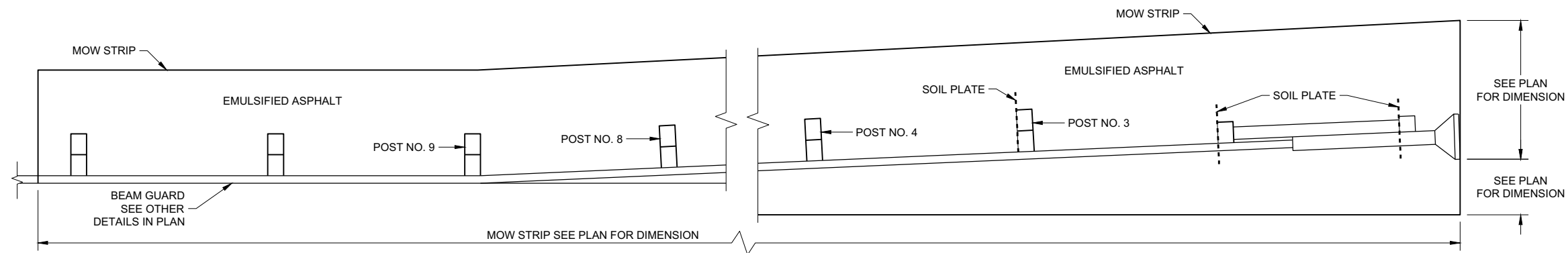


OVERLAP DETAIL (TYPICAL)

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020 /S/ Steven Hefel
DATE HMA PAVEMENT ENGIN 106
FHWA

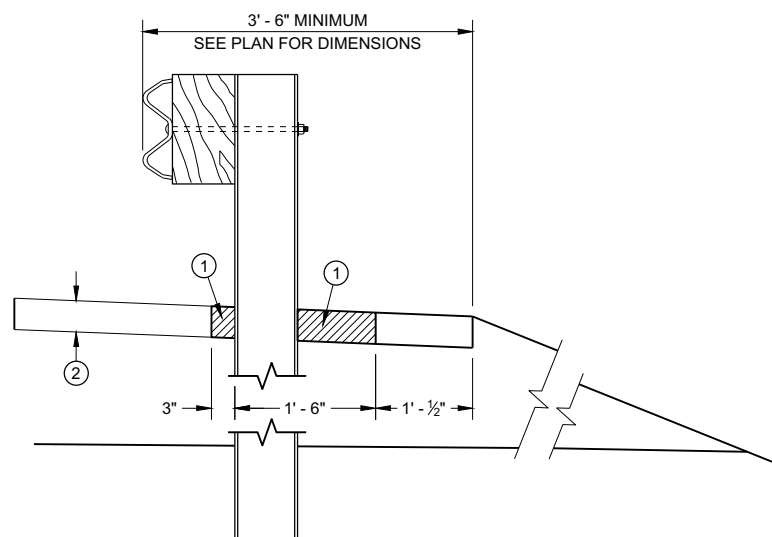


PLAN VIEW
MOW STRIP LAYOUT FOR ENERGY ABSORBING TERMINAL

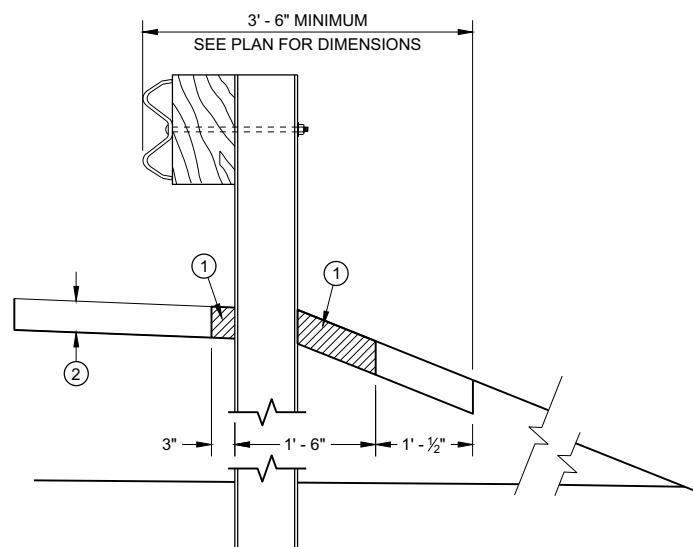
GENERAL NOTES

ONLY USE STEEL POSTS IN CONCRETE AND ASPHALT MOW STRIPS.

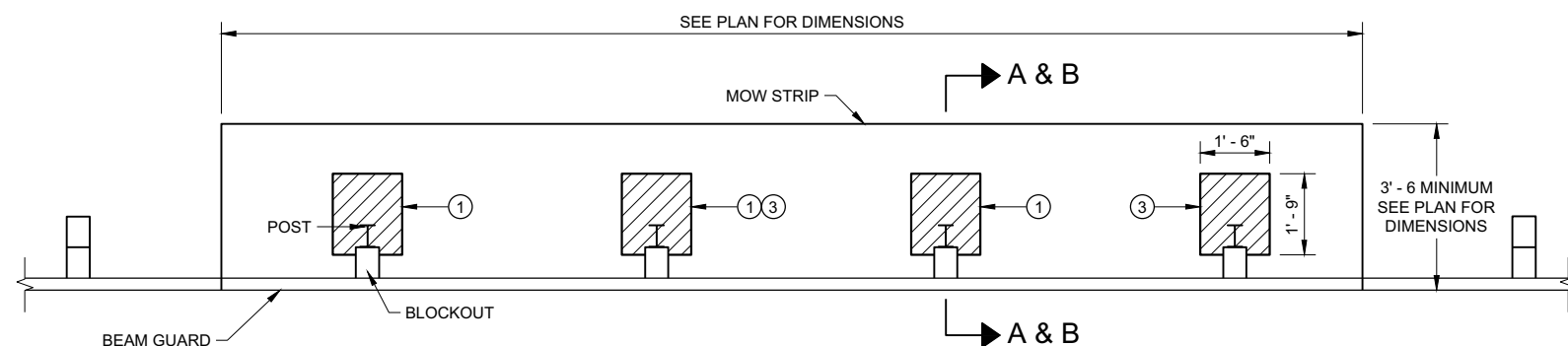
- ① CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.
- ② DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS
- ③ FOR EMULSIFIED ASPHALT, MOW STRIP STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS)



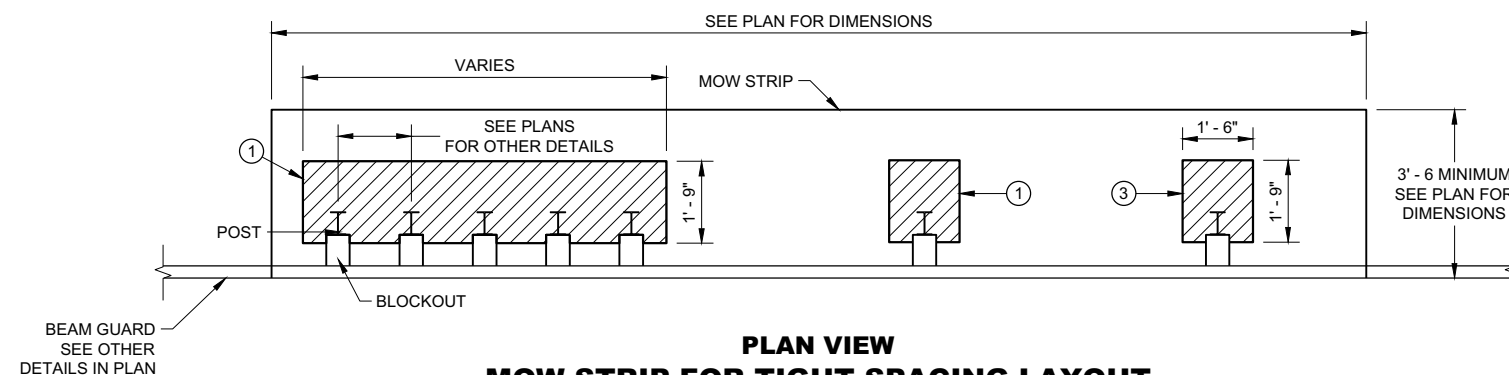
SECTION A - A



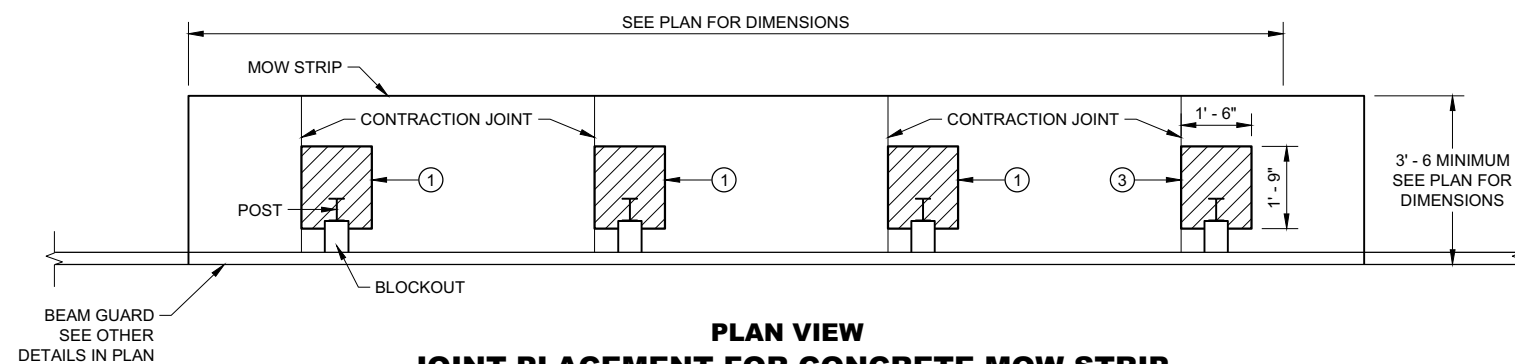
SECTION B - B



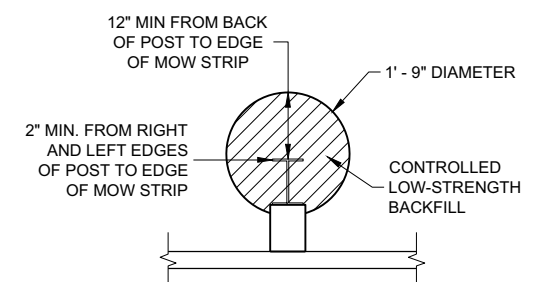
PLAN VIEW
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



PLAN VIEW
MOW STRIP FOR TIGHT SPACING LAYOUT



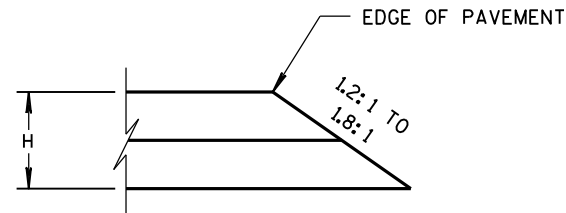
PLAN VIEW
JOINT PLACEMENT FOR CONCRETE MOW STRIP



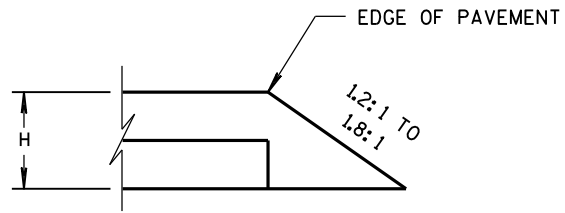
ALTERNATIVE HMA
MOW STRIP DESIGN

GUARDRAIL MOW STRIP

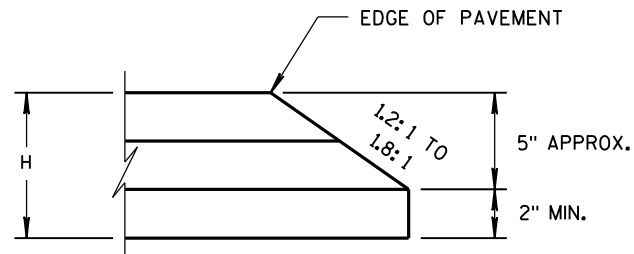
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 107



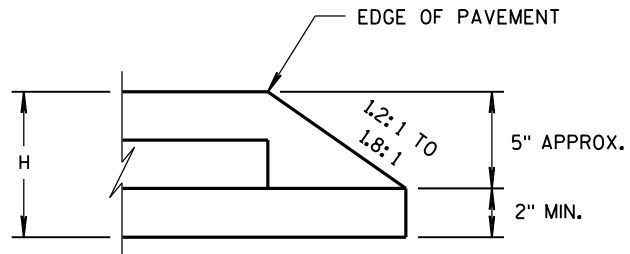
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

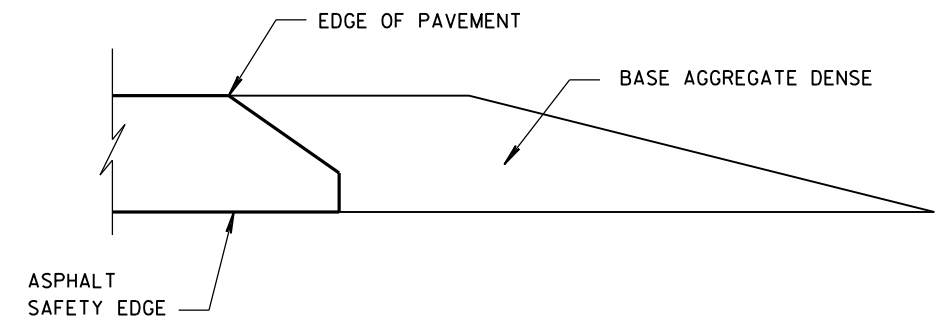


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE_{SM}

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

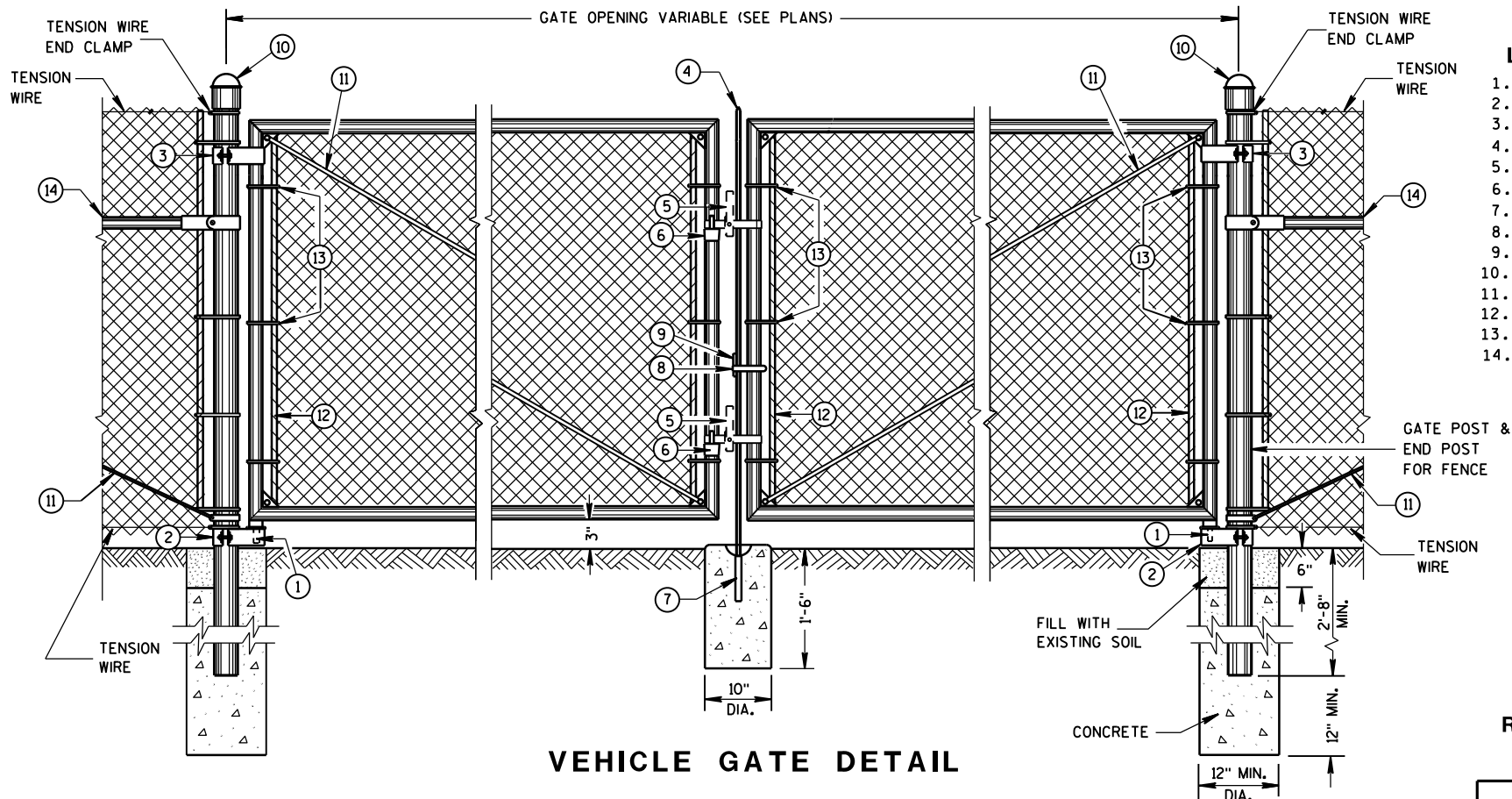
11/30/2012
DATE

FHWA

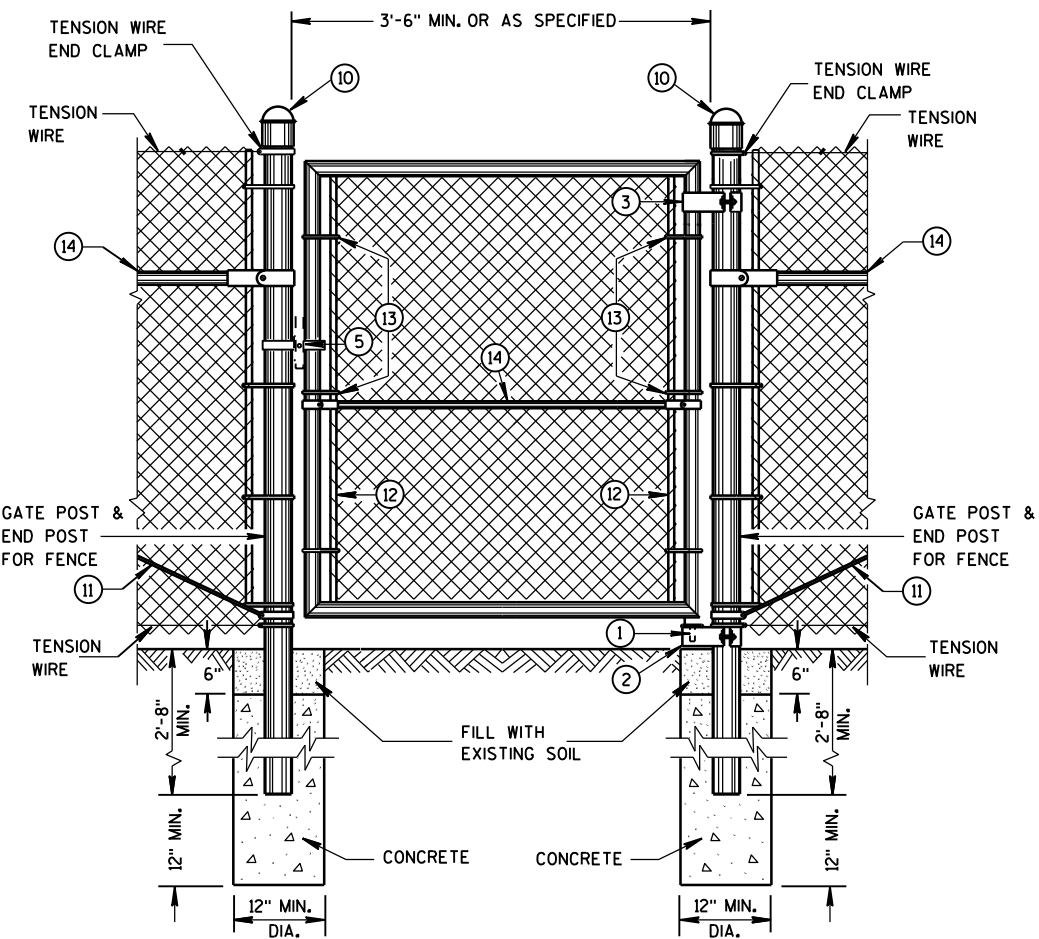
/s/ Jerry H. Zoaga
ROADWAY STANDARDS
ENGINEER

108

ENT



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2+
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE	TYPE
BRACE RAIL	SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

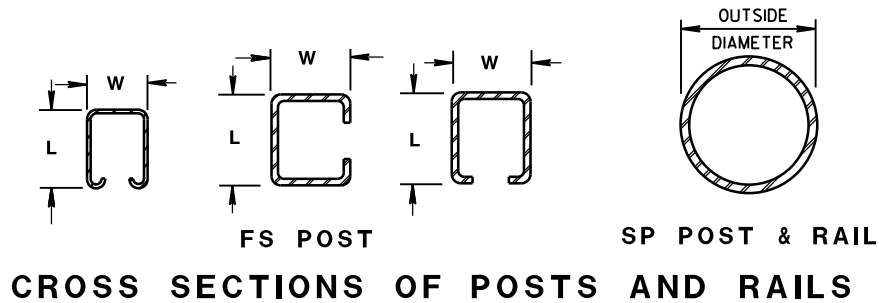
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



ROLLED-FORMED STEEL FENCE POST
(2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2+	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

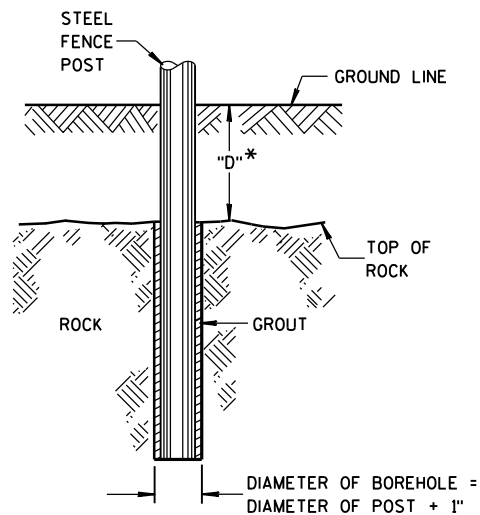
USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

ROUND STEEL FENCE POST
(1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

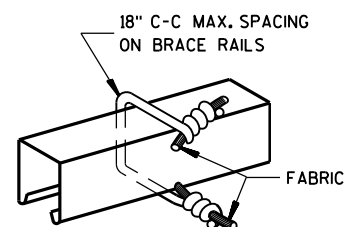
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



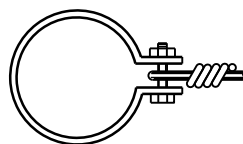
* IF "D" IS LESS THAN 2'-6",
DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST

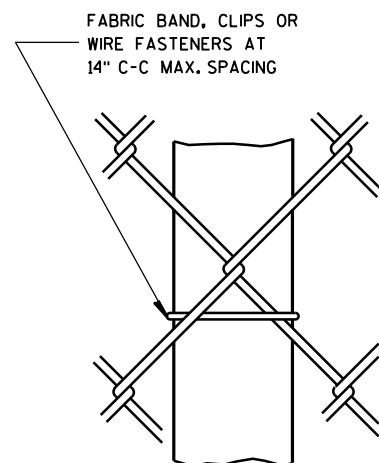


BRACE RAIL FABRIC FASTENER

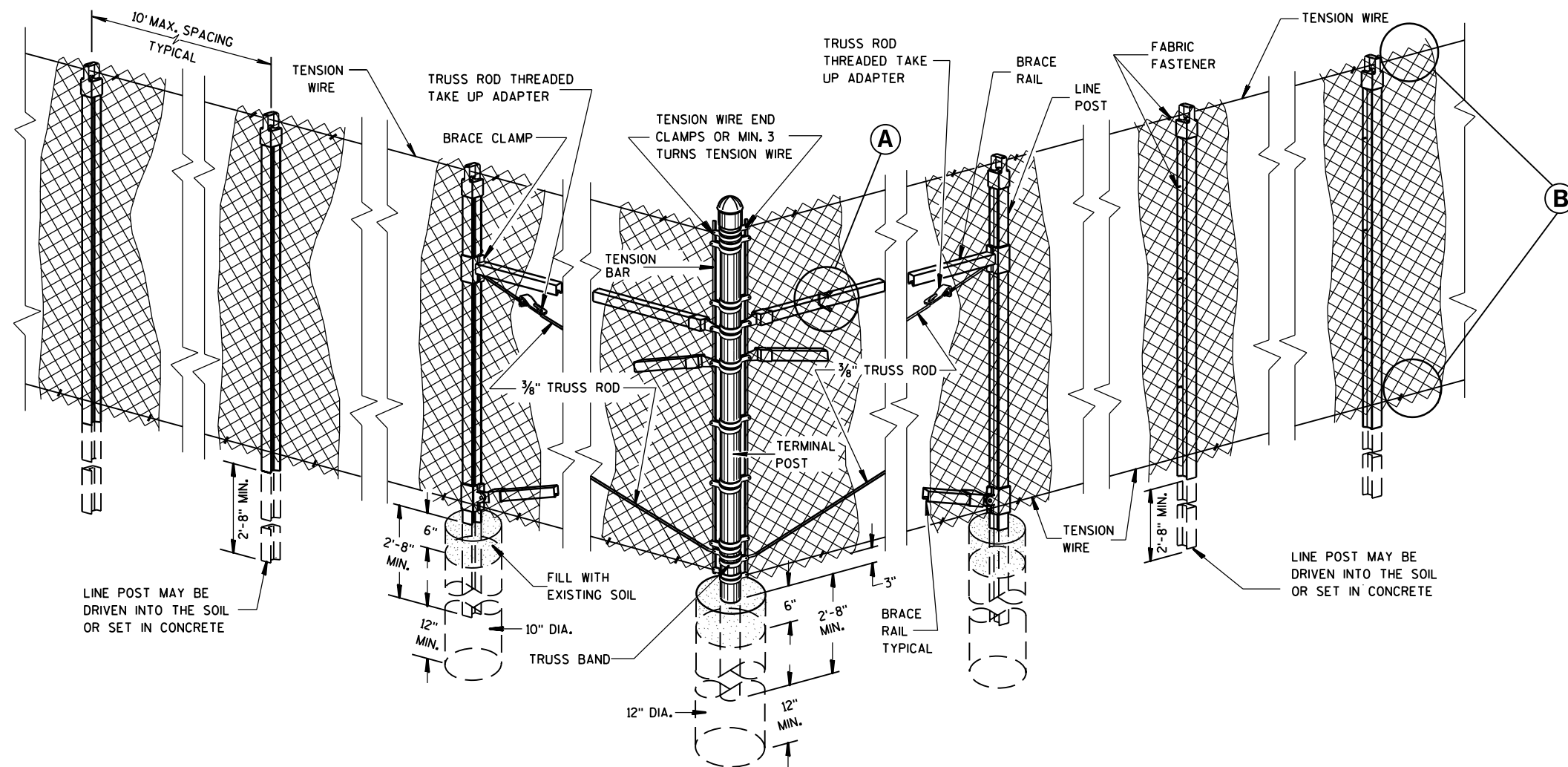
(A)



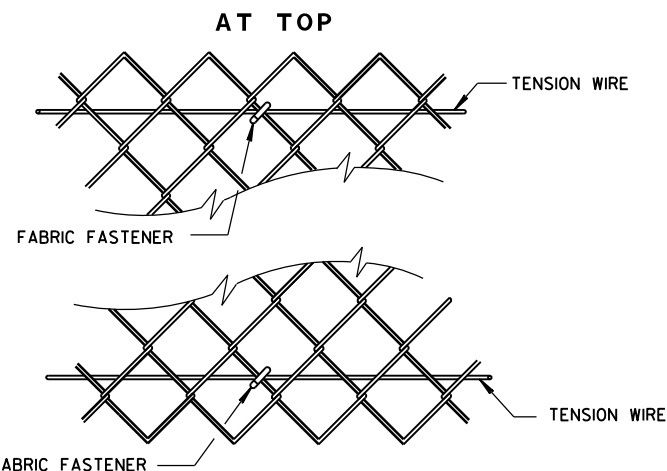
TENSION WIRE END CLAMP



LINE POST FABRIC FASTENER



END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



(B)

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

FEB. 2015

DATE

FHWA

/S/ Jerry H. Zogg

ROADWAY STANDARDS 110

ENGINEER

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.

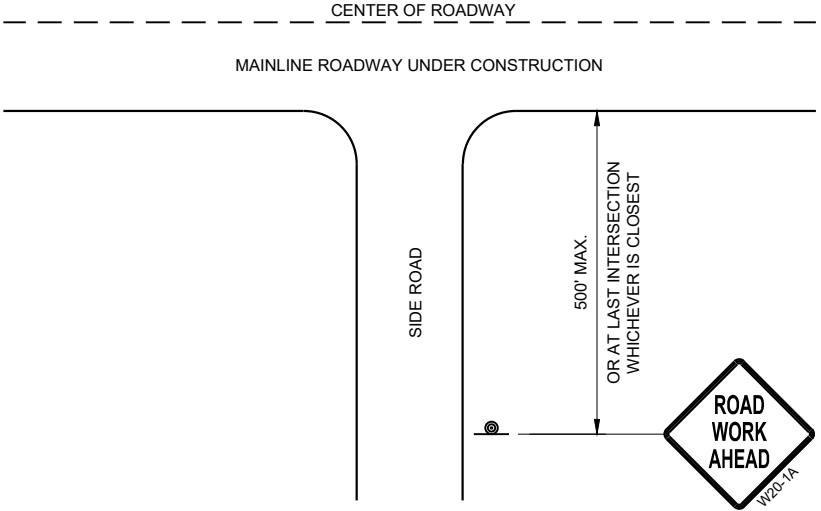
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

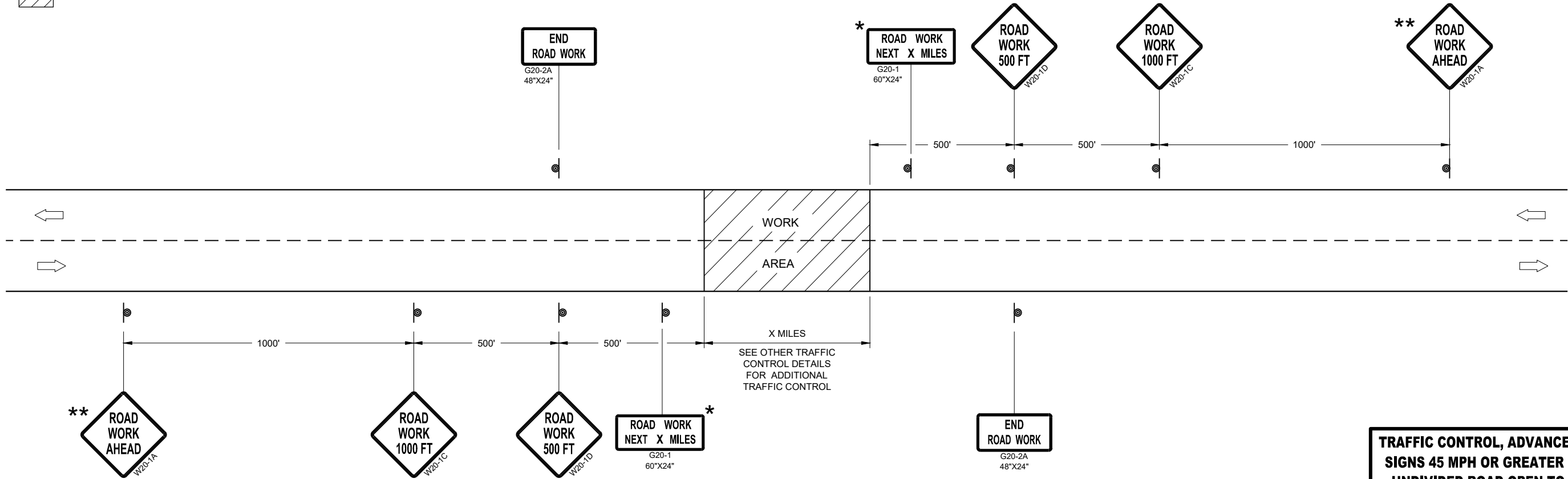
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- ** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



TYPICAL SIDE ROAD APPROACH
WARNING SIGN DETAIL



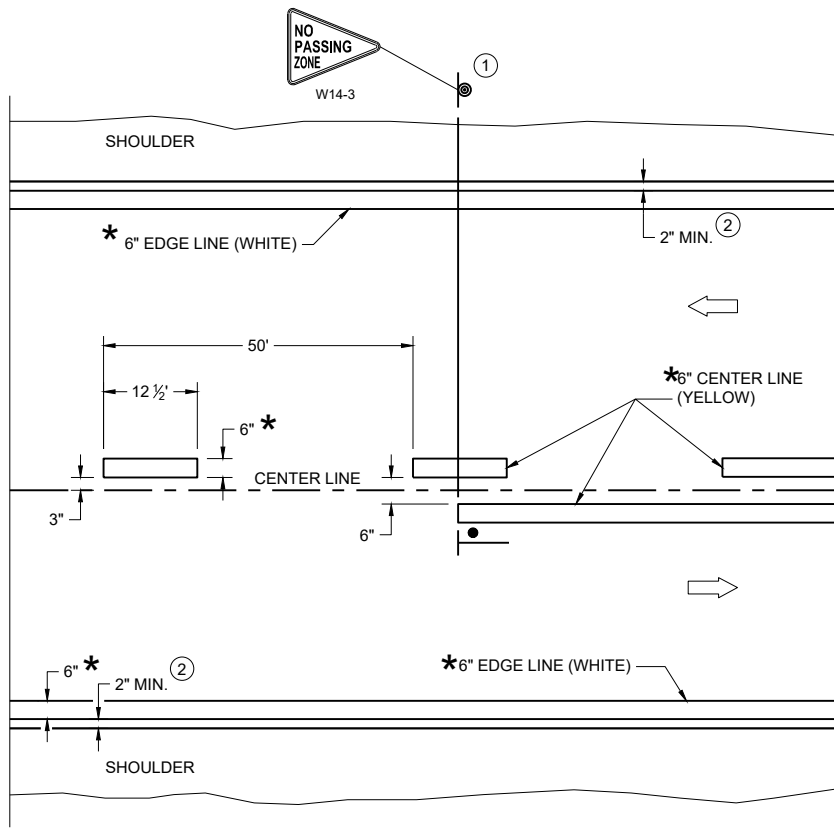
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

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

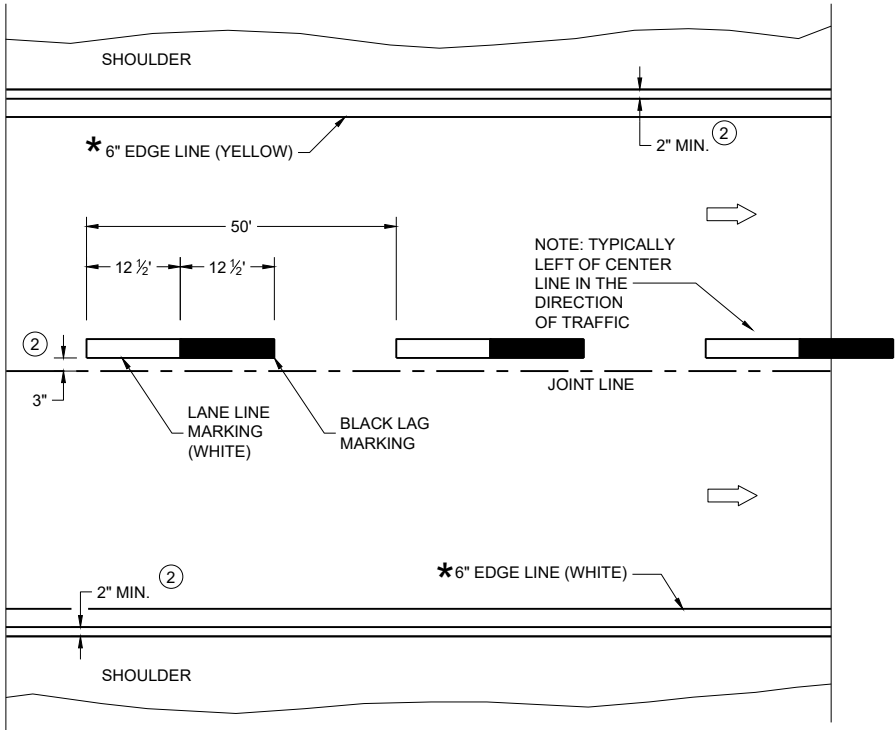
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 111

FHWA



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

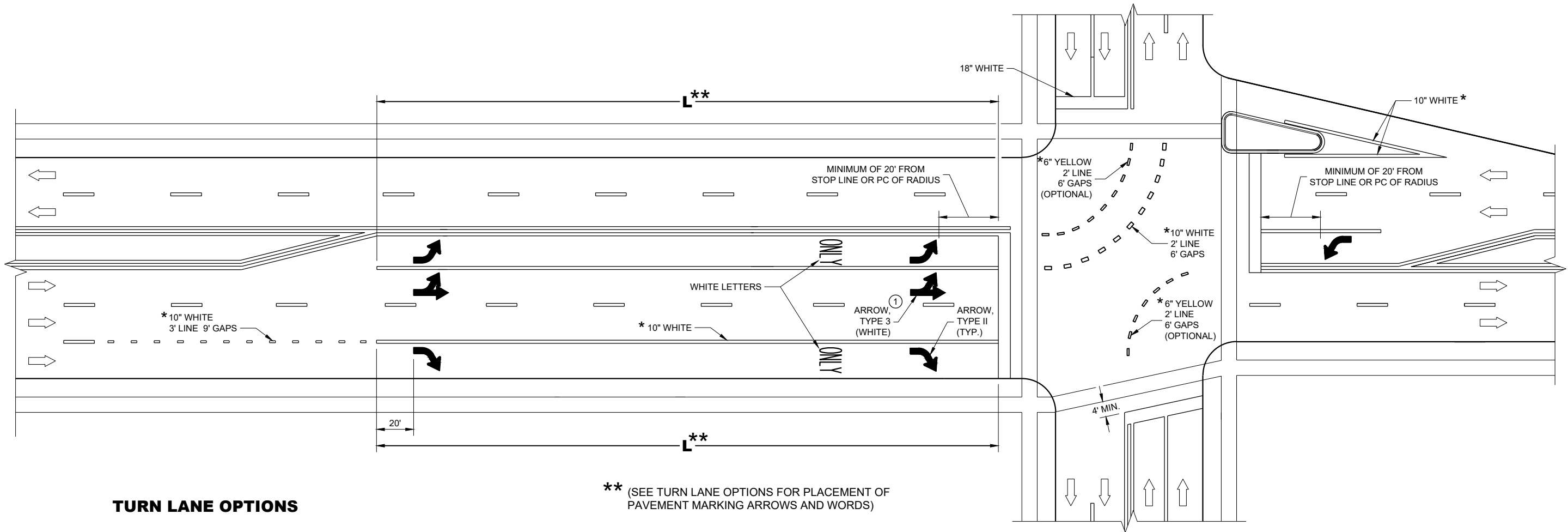
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- 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

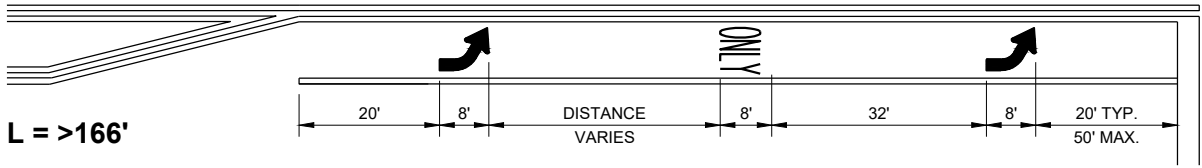
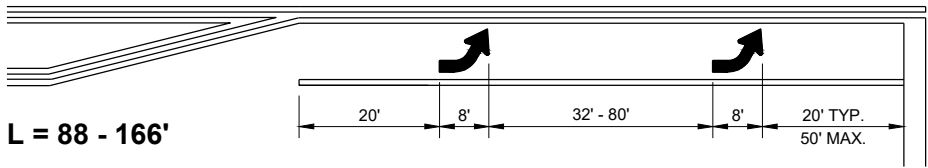
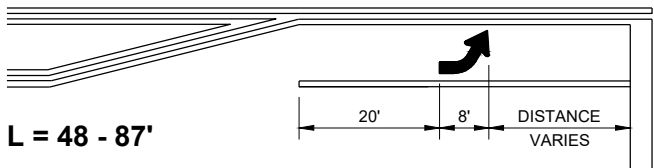
- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL PAVEMENT MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Jeannie Silver Statewide Pavement Marking Engineer



TURN LANE OPTIONS

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



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

GENERAL NOTES

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

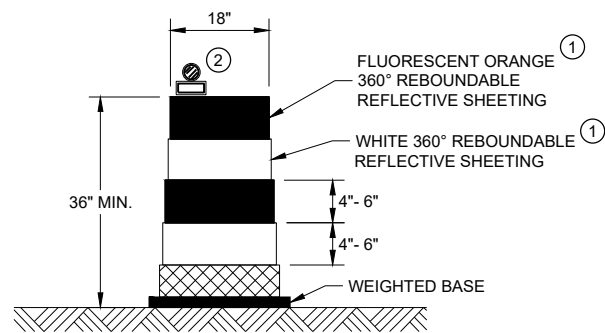
➡ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

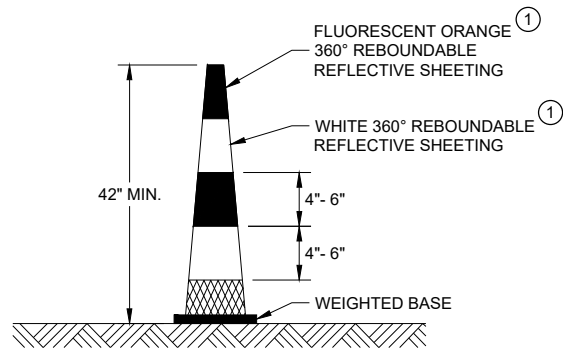
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING
(TURN LANES)

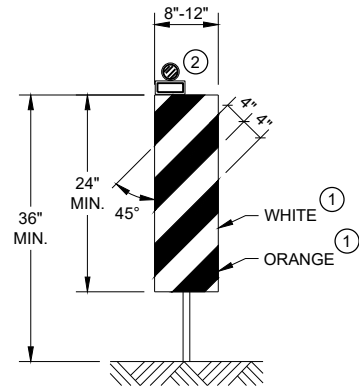
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 113



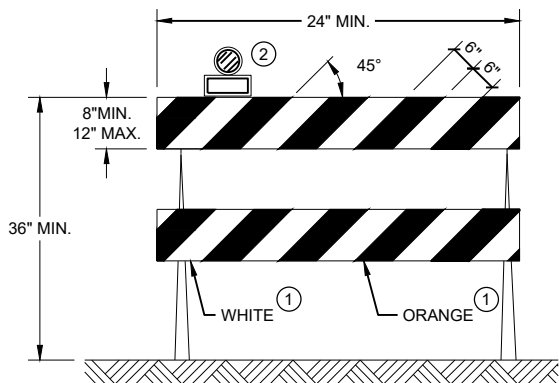
DRUM
BALLAST WIDTHS
RANGE FROM 24"-36"



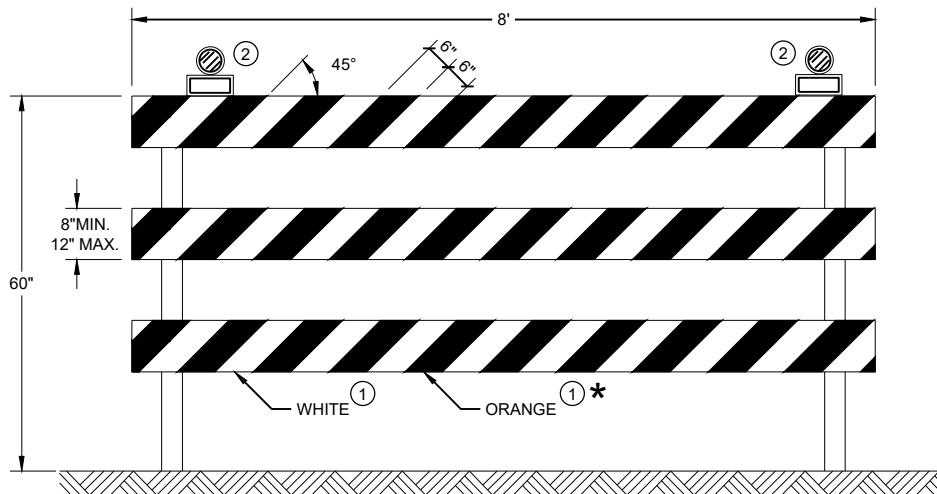
42" CONE
DO NOT USE IN TAPERS
½ SPACING OF DRUMS
BALLAST WIDTHS
RANGE FROM 14"-20"



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



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



TYPE III BARRICADE
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2022 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER 114
FHWA	

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.

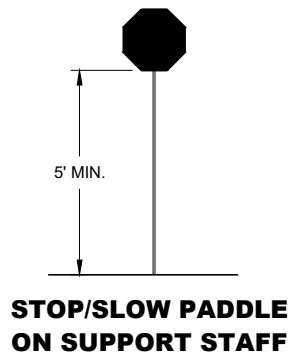
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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.

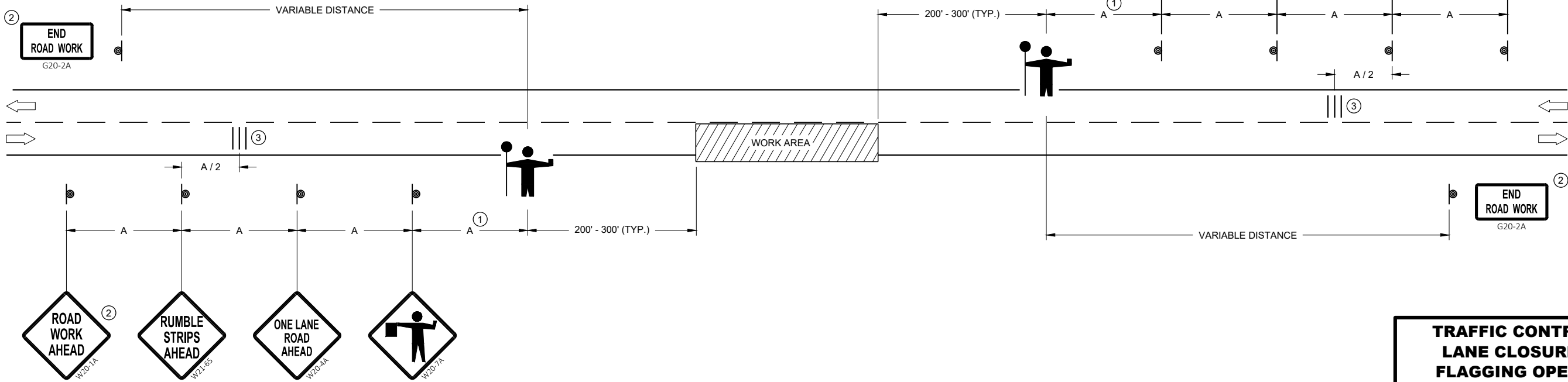


SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



USE OF W03-4 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 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 115

FHWA

- 

GENERAL NOTES

SIGN ON PERMANENT SUPPORT
- 

TRAFFIC CONTROL CONE 42-INCH
- 

TRAFFIC CONTROL DRUM
- 

TEMPORARY PORTABLE RUMBLE STRIP ARRAY
- 

DIRECTION OF TRAFFIC
- 

WORK AREA
- 

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.

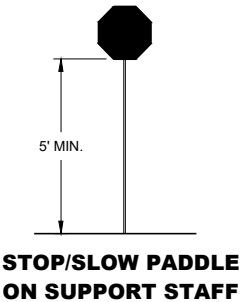
ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

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.

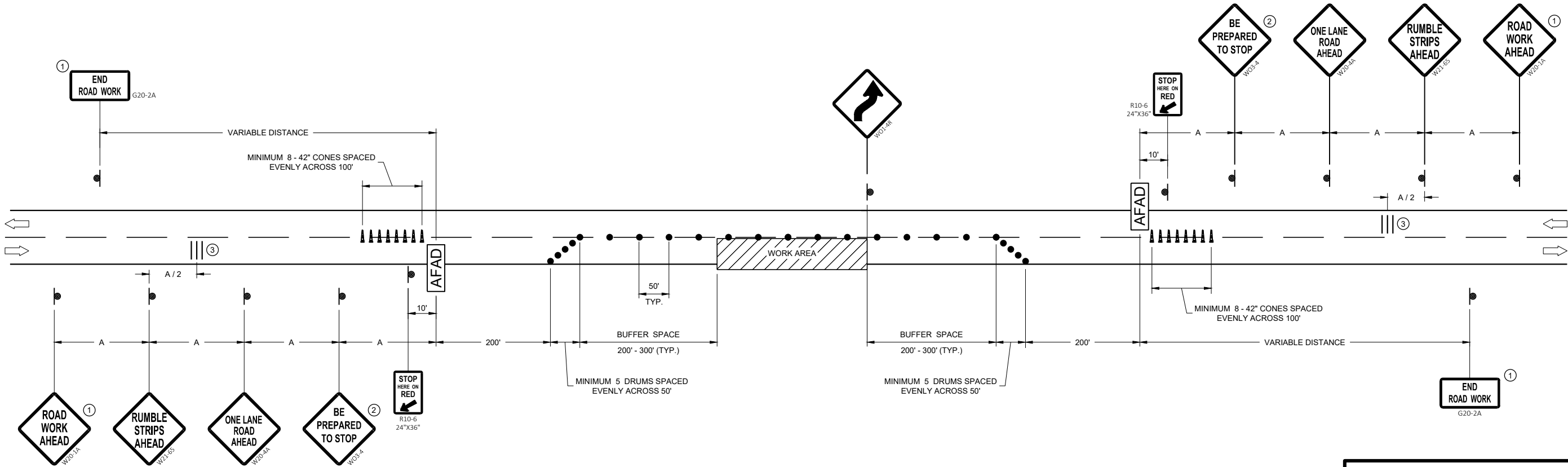
3

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.



SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

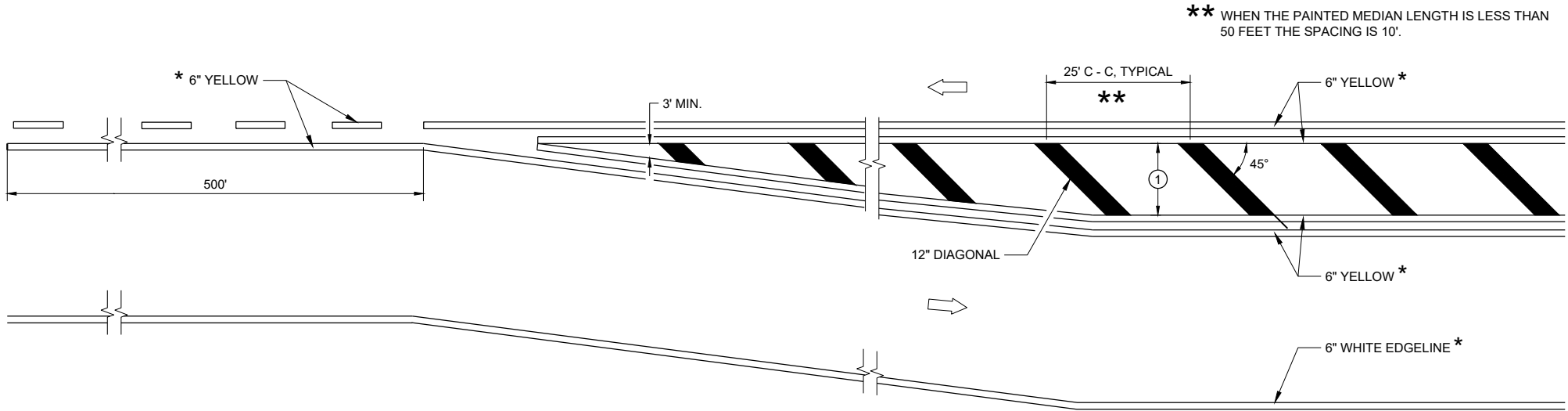
SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



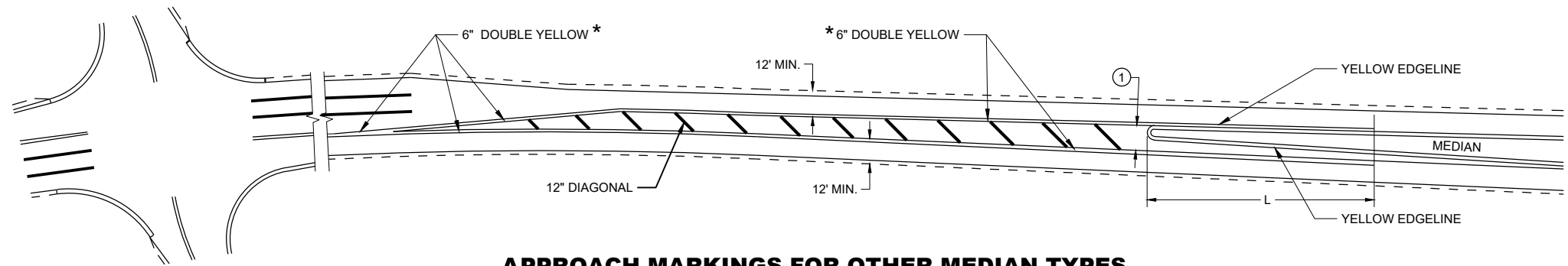
TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

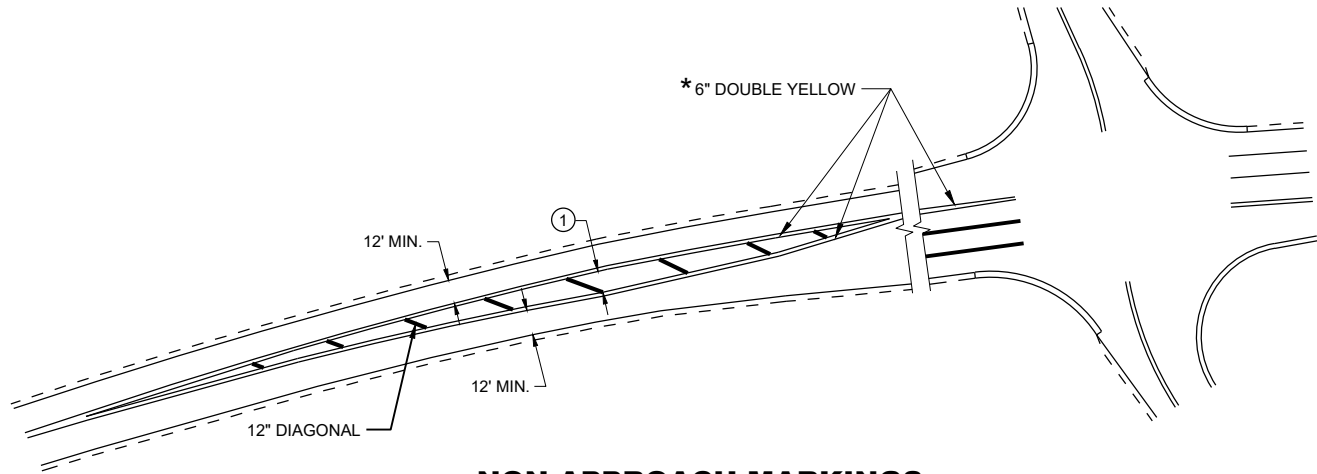
APPROVED
May 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 116
FHWA



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

GENERAL NOTES

- ① DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

➡ DIRECTION OF TRAVEL

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

SPEED LIMIT	L
<35 MPH	5'
35> MPH	50'

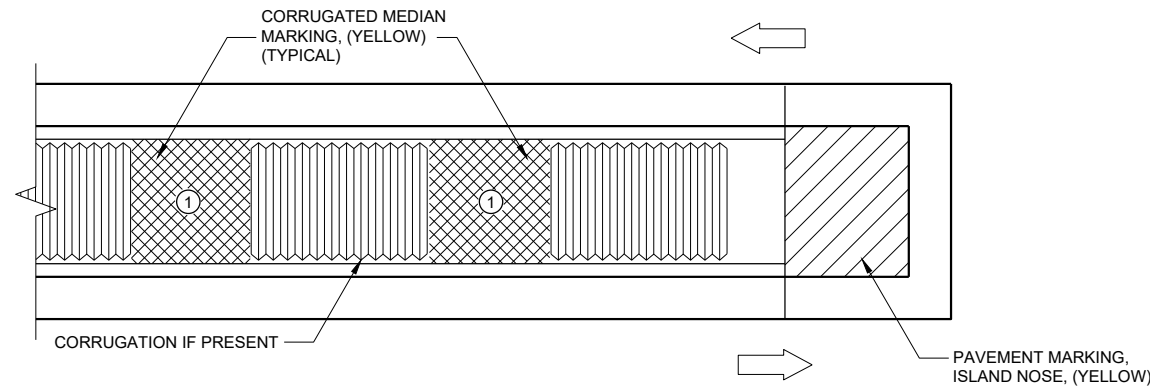
**MEDIAN ISLAND
PAVEMENT MARKINGS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

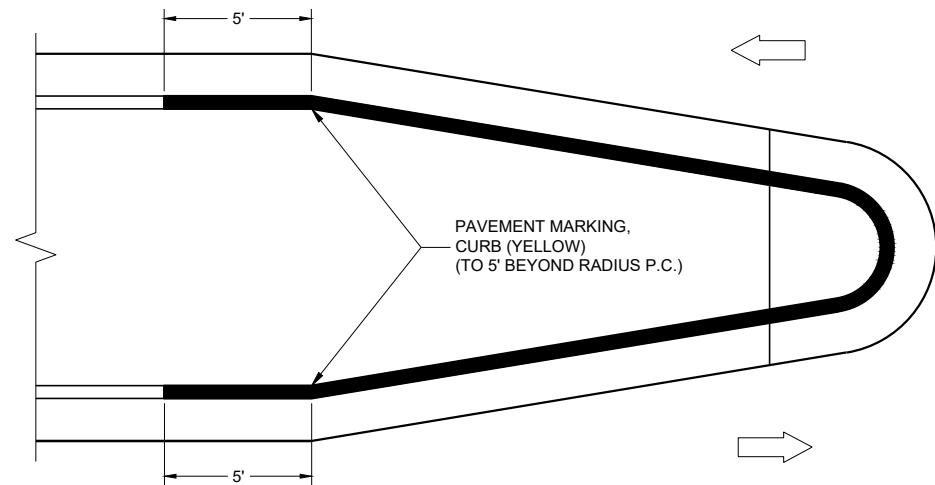
APPROVED
May 2023
DATE

/S/ Jeannie Silver
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

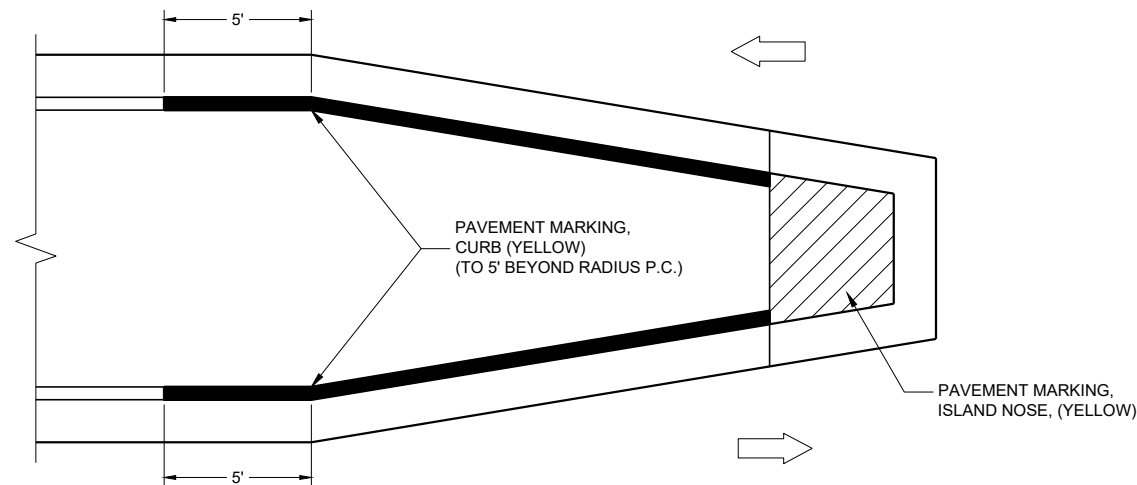
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MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

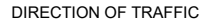
WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

- ① APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Jeannie Silver ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA 118	

V1	LEAD VEHICLE
V2	MARKING VEHICLE
V3	SHADOW VEHICLE



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

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

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

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.

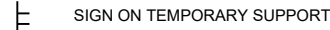


STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

V1	MARKING VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE



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

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

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

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

CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

APPROVED	
March 2024	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

① USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

** SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT PLACEMENT.

*** IF POSTED SPEED IS 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN).

LEGEND

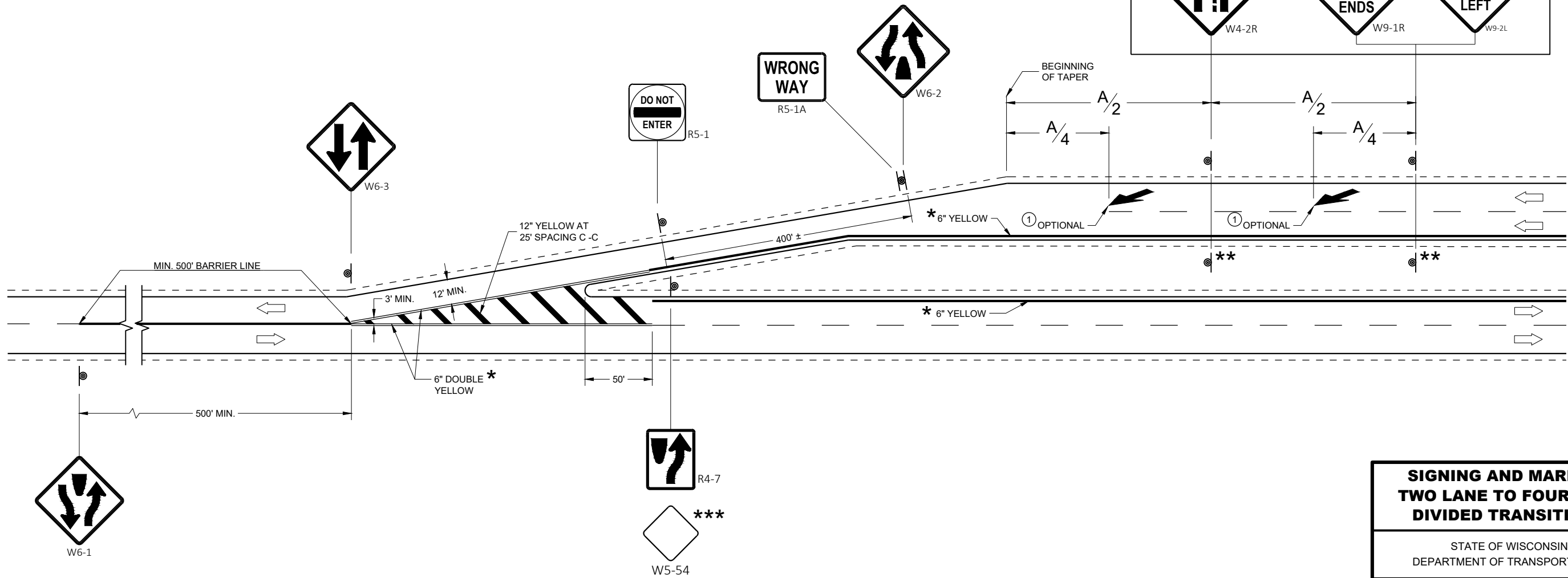
A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

⦿ SIGN MOUNTED ON PERMANENT SUPPORT

➡ DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	325'
30	460'
35	565'
40	670'
45	775'
50	885'
55	990'
65	1200'
70	1250'

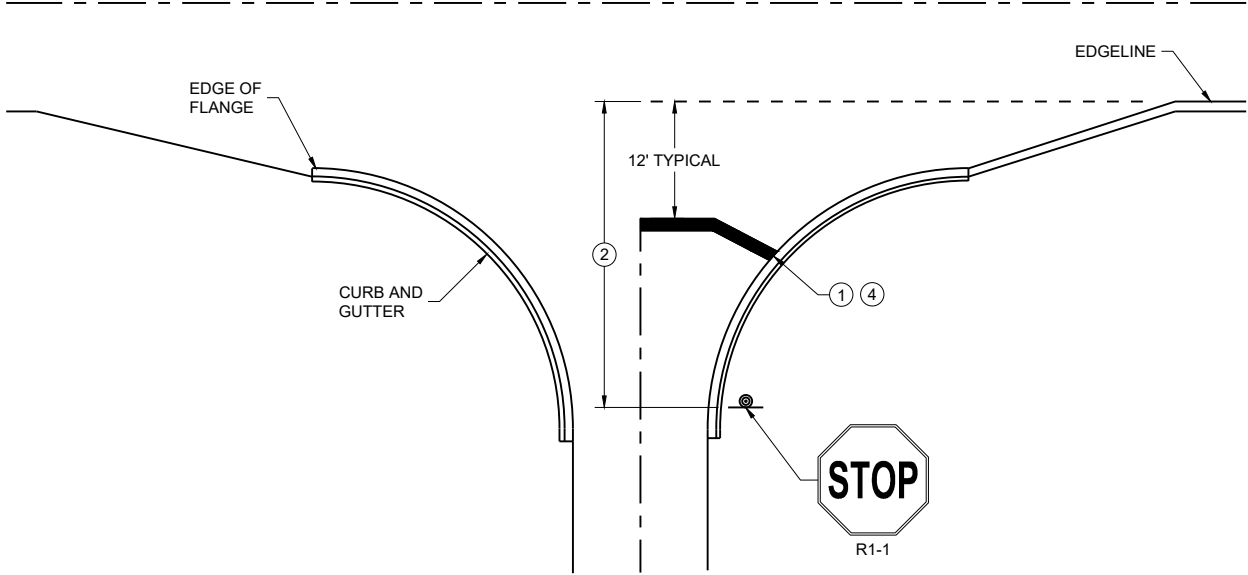


SIGNING AND MARKING
TWO LANE TO FOUR LANE
DIVIDED TRANSITIONS

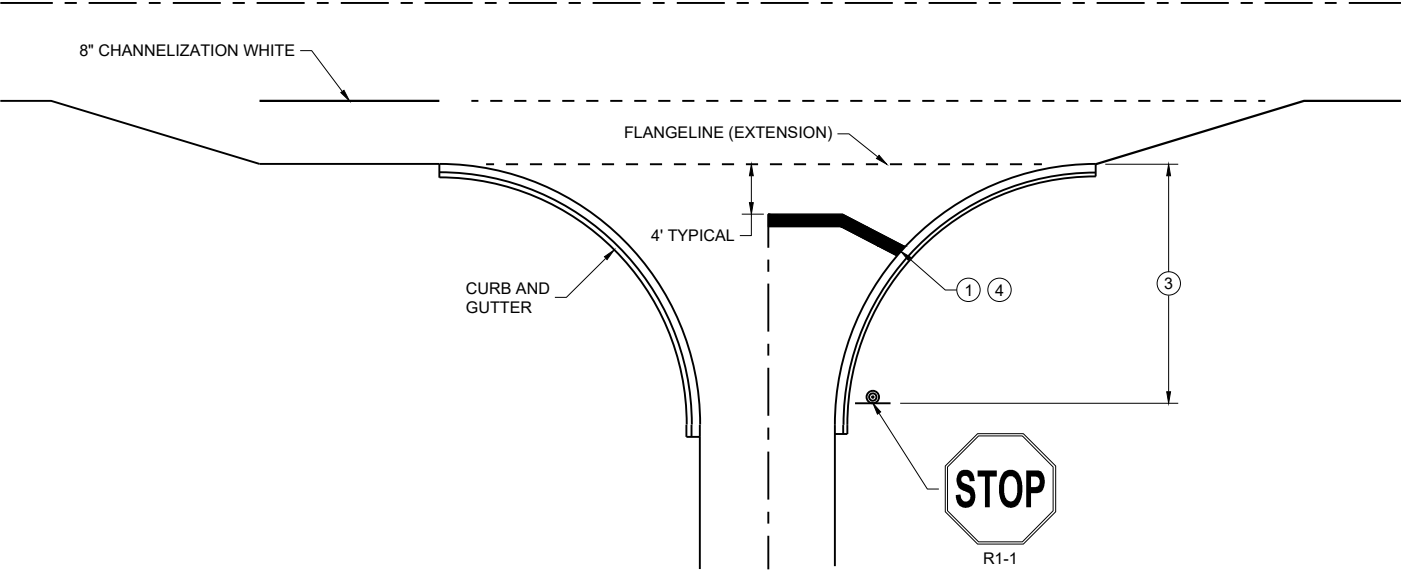
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Matthew Rauch
DATE STATE SIGNING AND MAF 121
ENGINEER

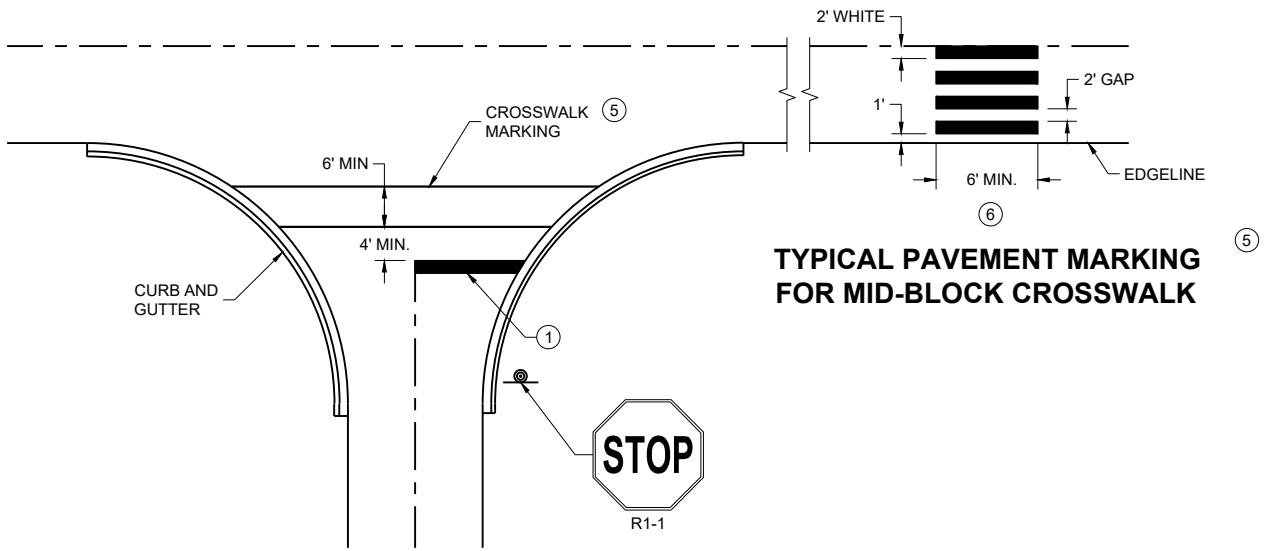
FHWA



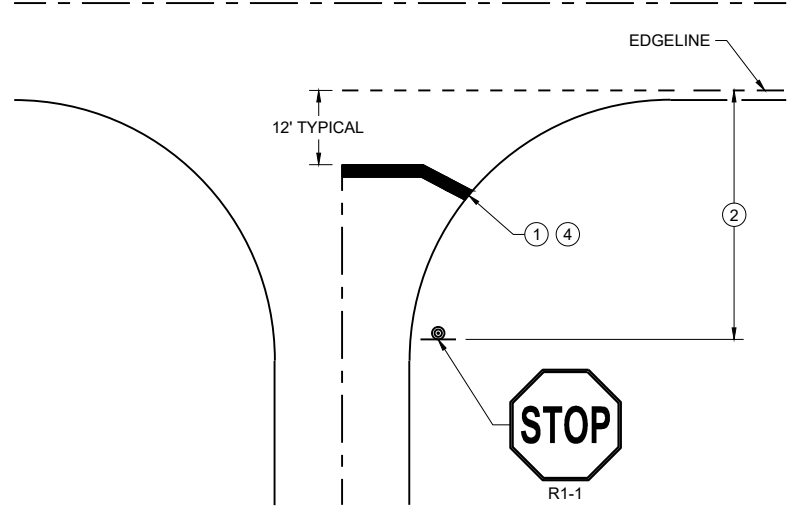
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



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



TYPICAL STOP LINE PAVEMENT MARKING FOR
SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING
WITHOUT CURB AND GUTTER

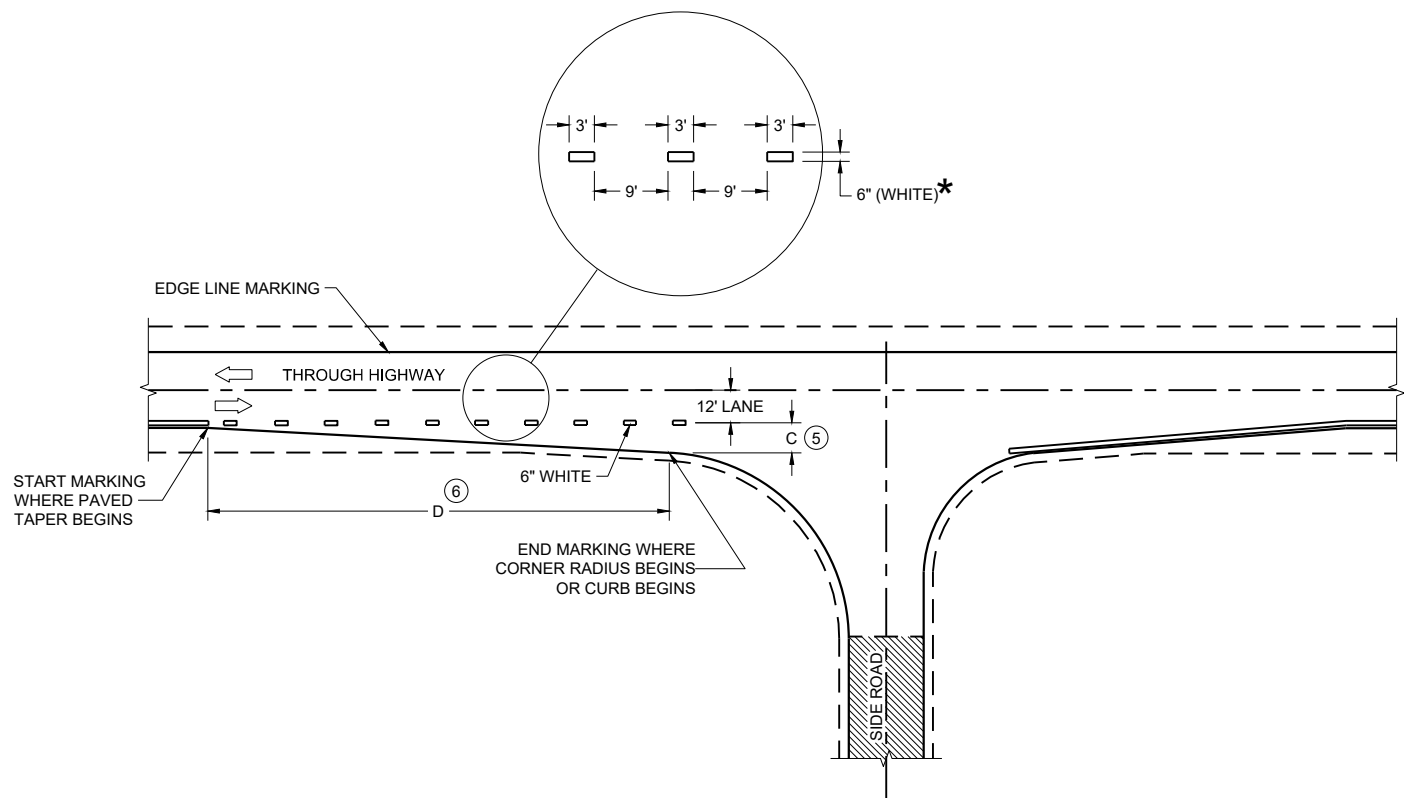
GENERAL NOTES

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

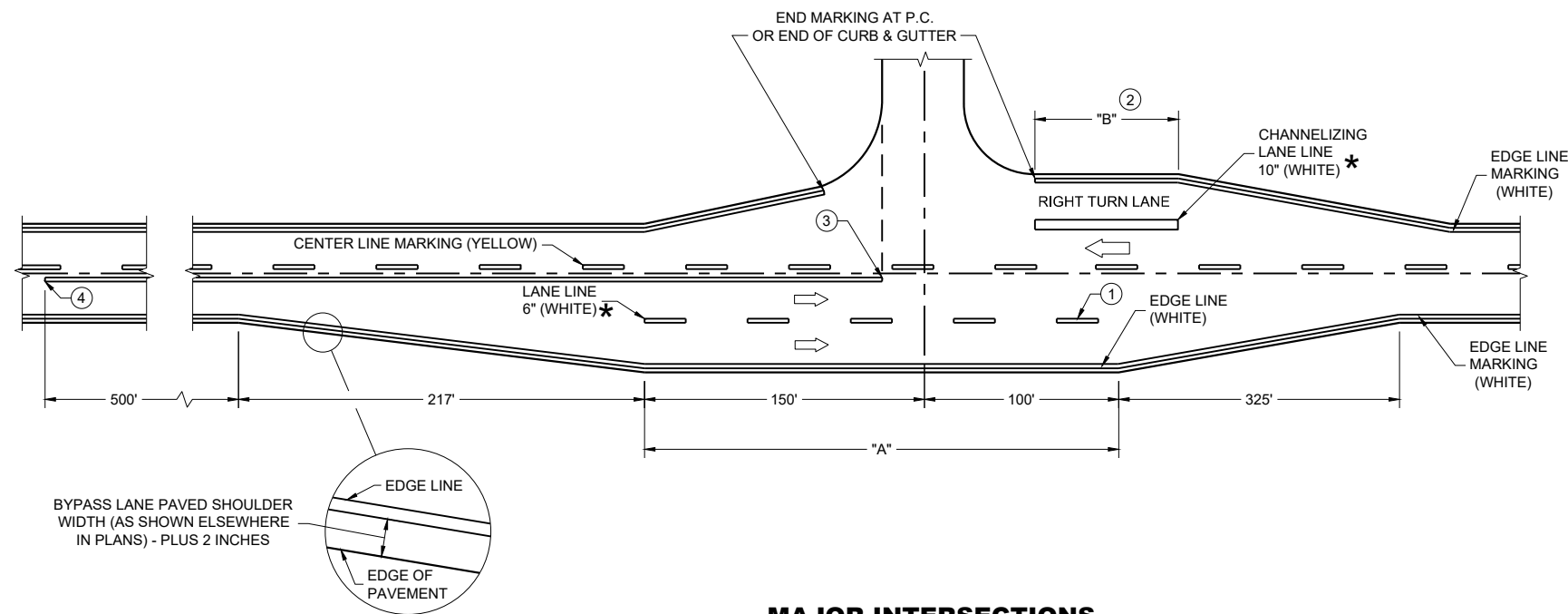
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE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

STOP LINE AND CROSSWALK PAVEMENT MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED March 2024 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER

FHWA



MINOR INTERSECTION



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

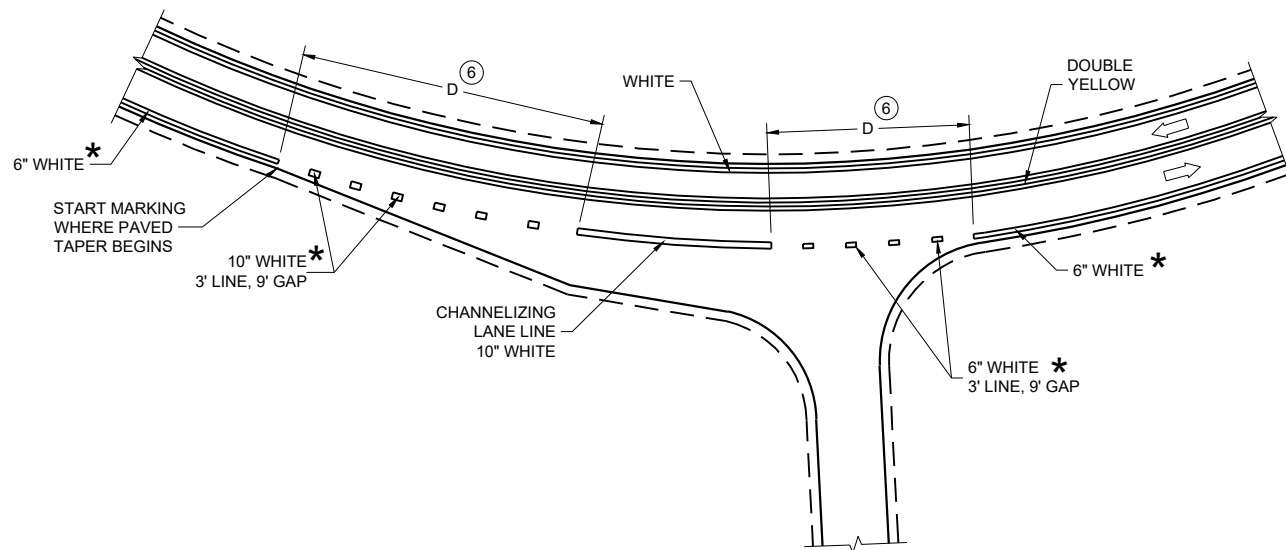
GENERAL NOTES

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
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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 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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

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

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN

PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

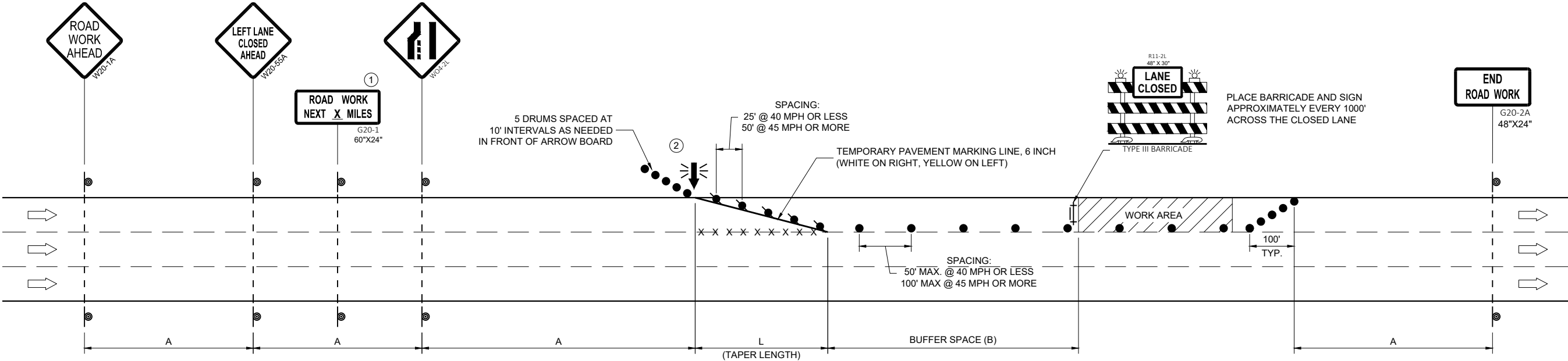
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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

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

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

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



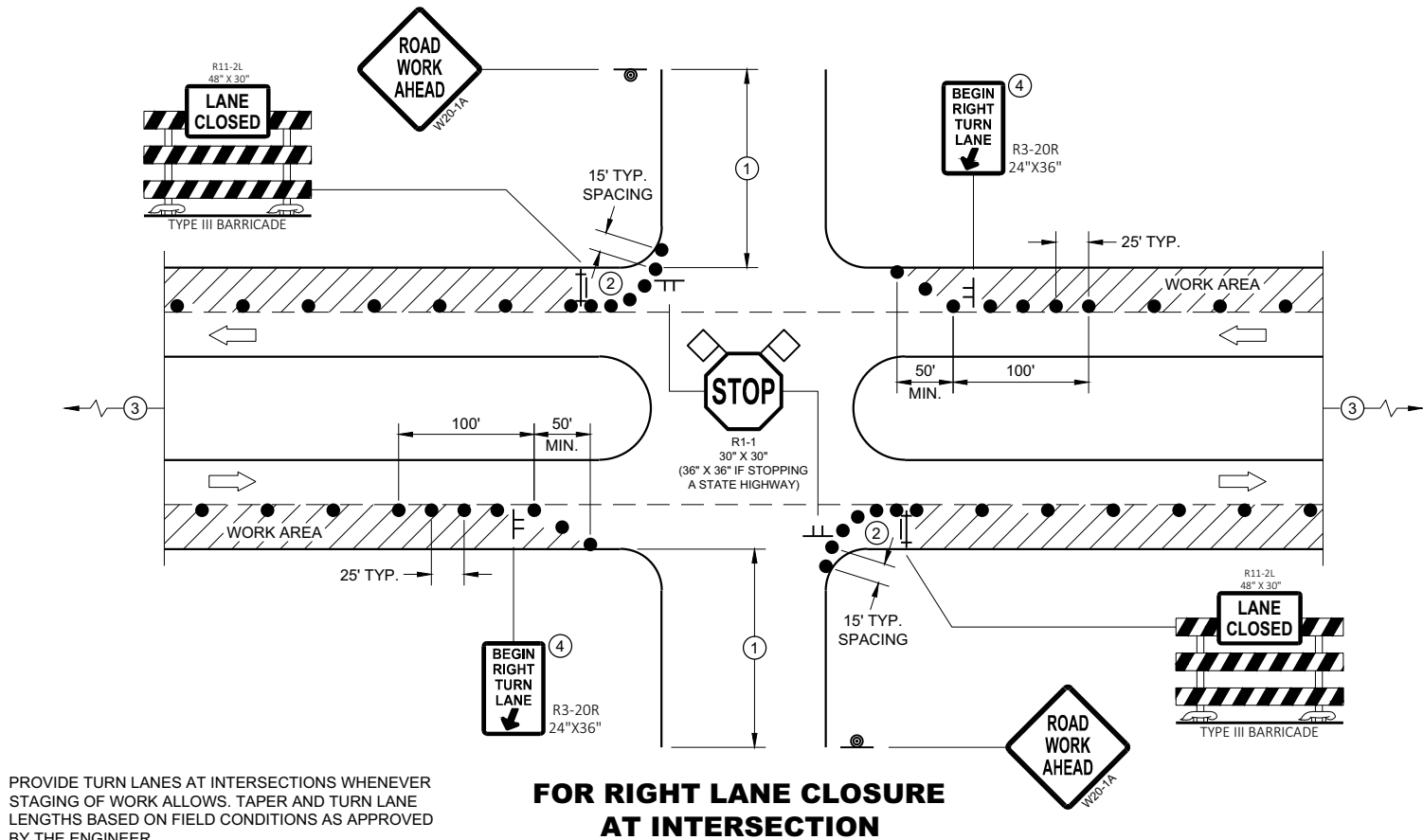
POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE
LANE CLOSURE, DIVIDED
NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT 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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

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

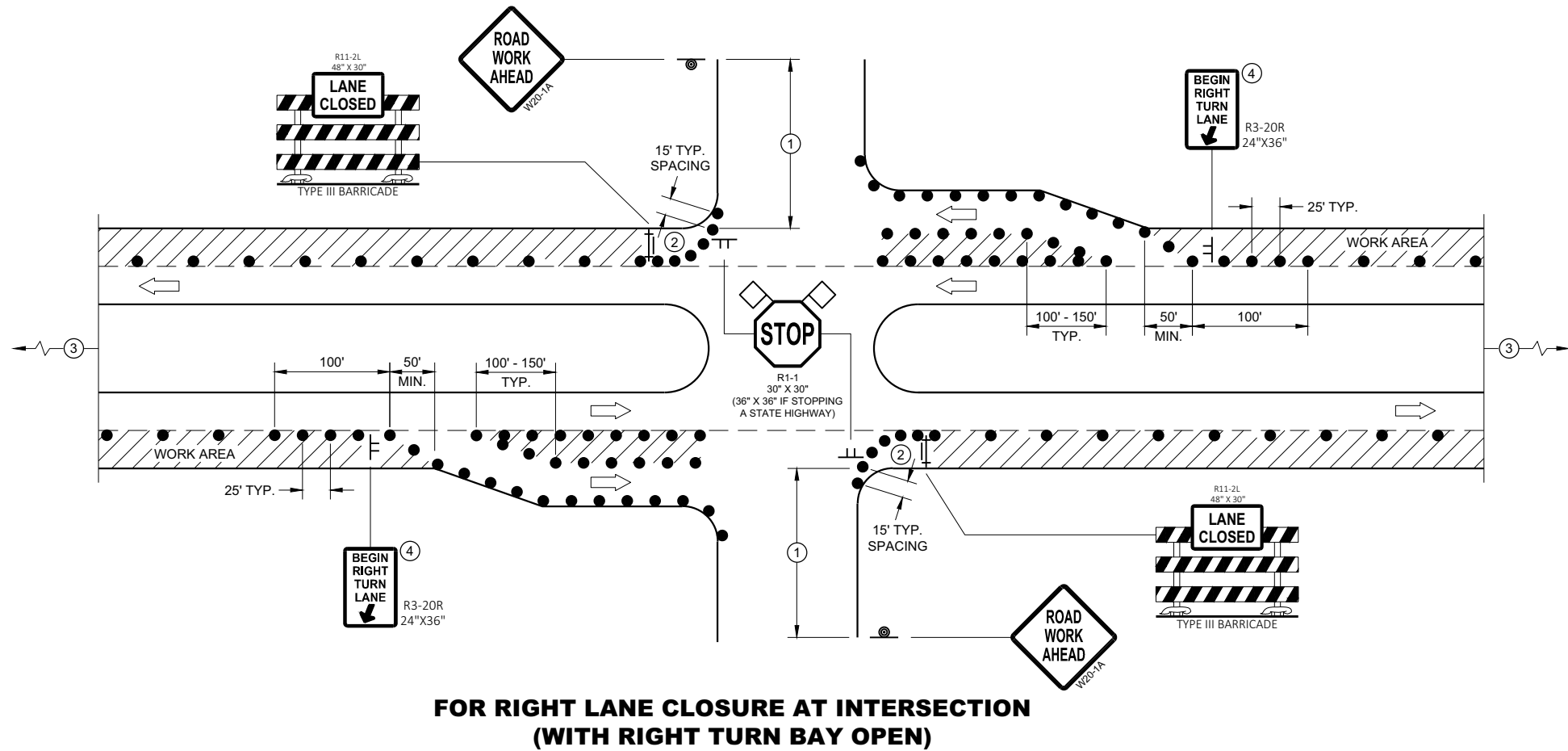
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

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

- ① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.
- ② ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS
- ③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.
- ④ MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



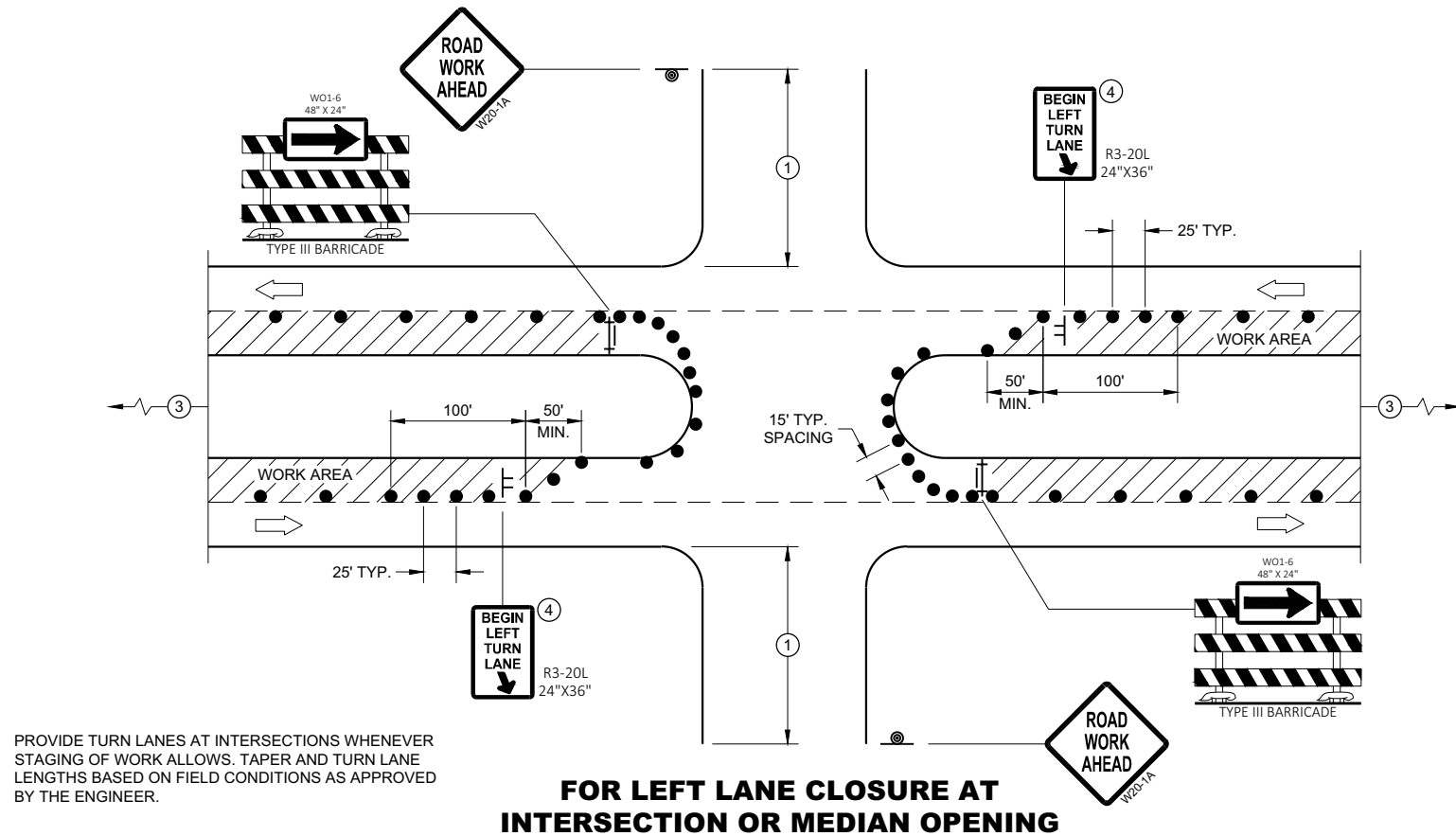
FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- ◇ ◇ FLAGS, 16" X 16" MIN., ORANGE
- ▨ WORK AREA

**TRAFFIC CONTROL,
INTERSECTION WITHIN SINGLE
RIGHT LANE CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 125



**FOR LEFT LANE CLOSURE AT
INTERSECTION OR MEDIAN OPENING**

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT 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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

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

- ① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.
- ② ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS
- ③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.
- ④ MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 126
FHWA

LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

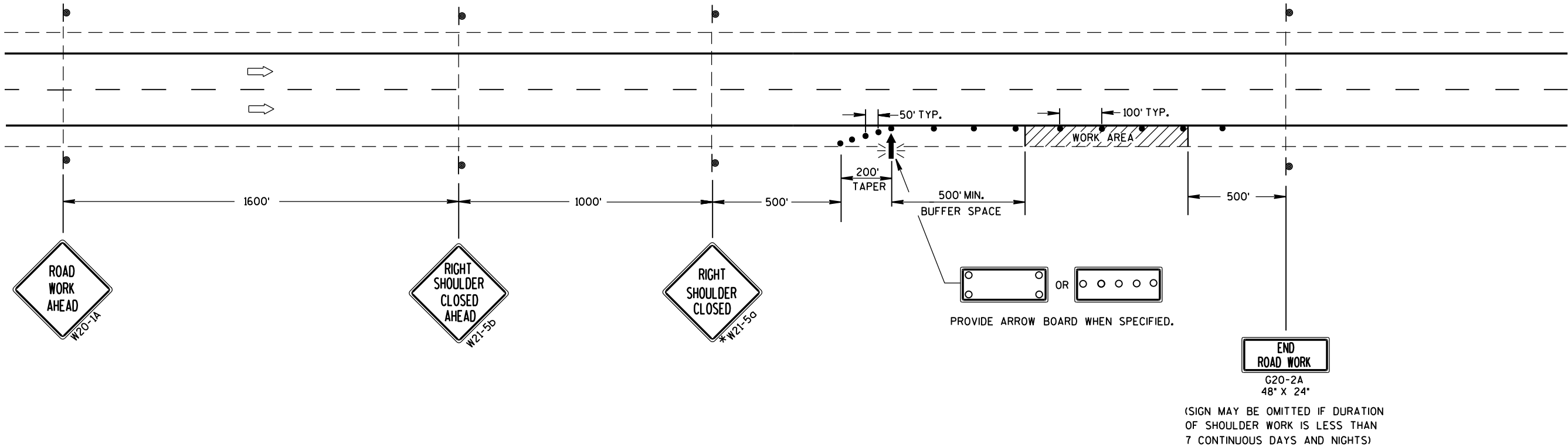
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

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

WHEN A 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.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2016 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE SAFETY ENGINEER 127
FHWA	IC

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  WORK ZONE

GENERAL NOTES

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

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

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

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

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

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

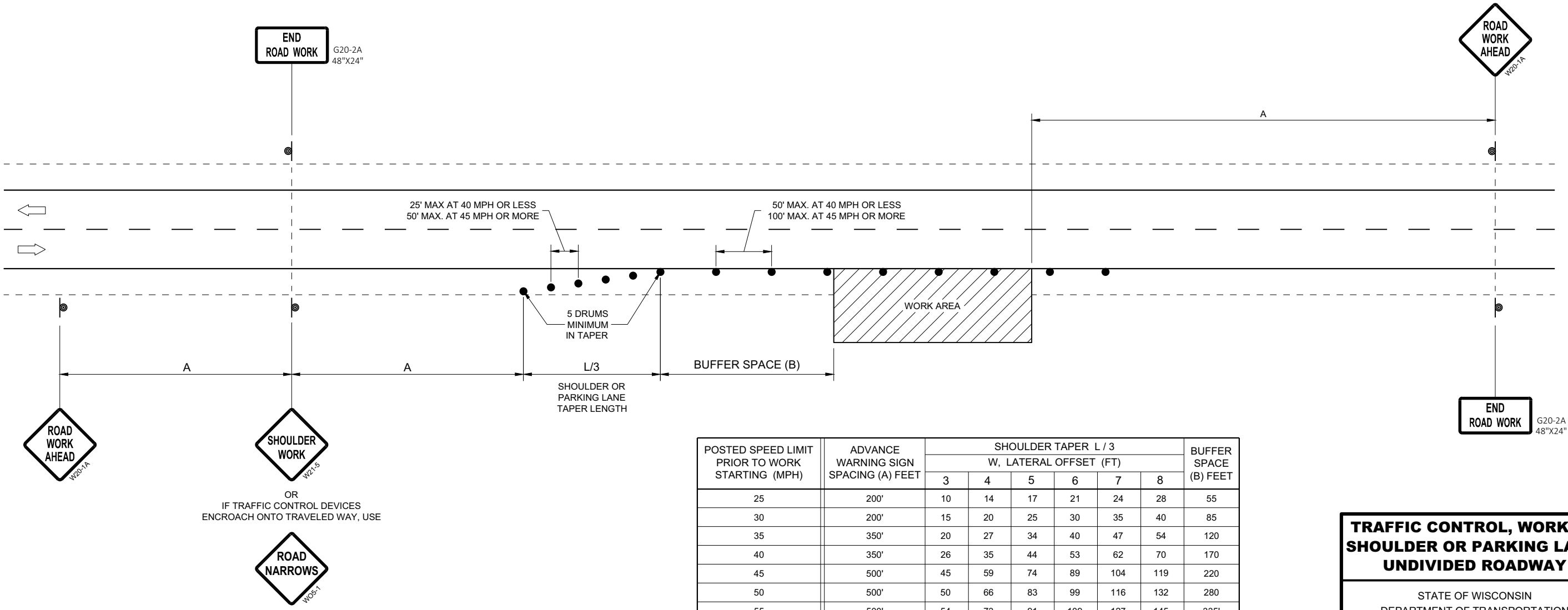
W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

6

6

SDD 15D28 - 04

SDD 15D28 - 04

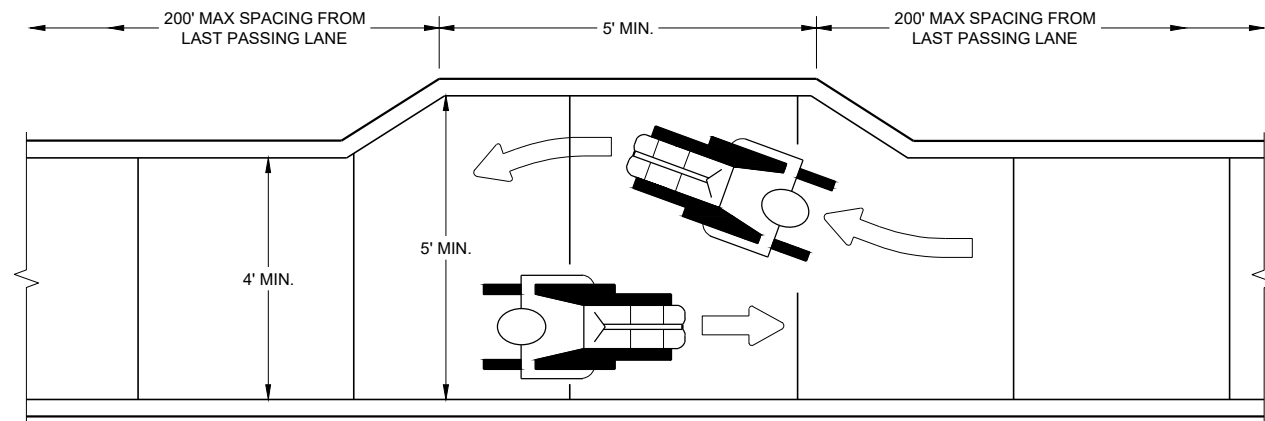


POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45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

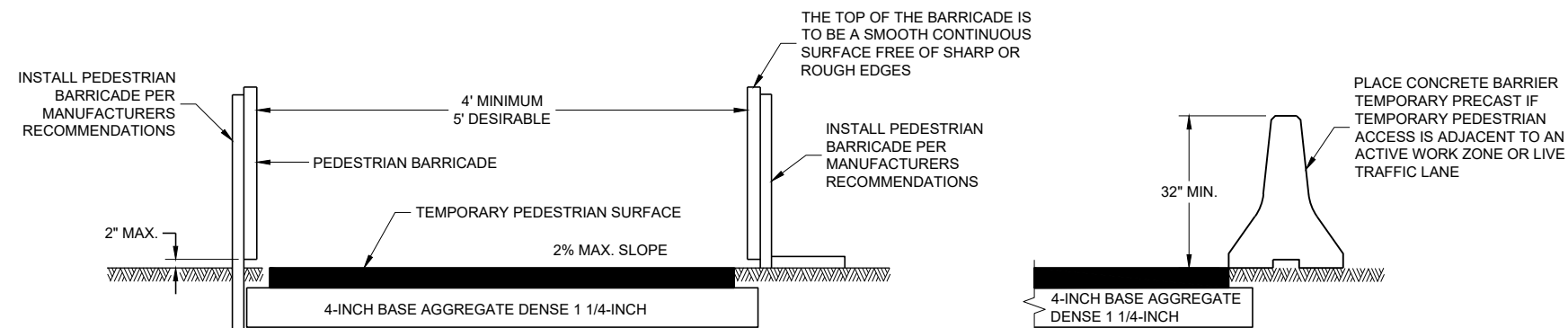
TRAFFIC CONTROL, WORK ON
SHOULDER OR PARKING LANE,
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 /S/ Andrew Heidtke
DATE STATEWIDE WORK ZONE T SAFETY ENGINEER 128
FHWA



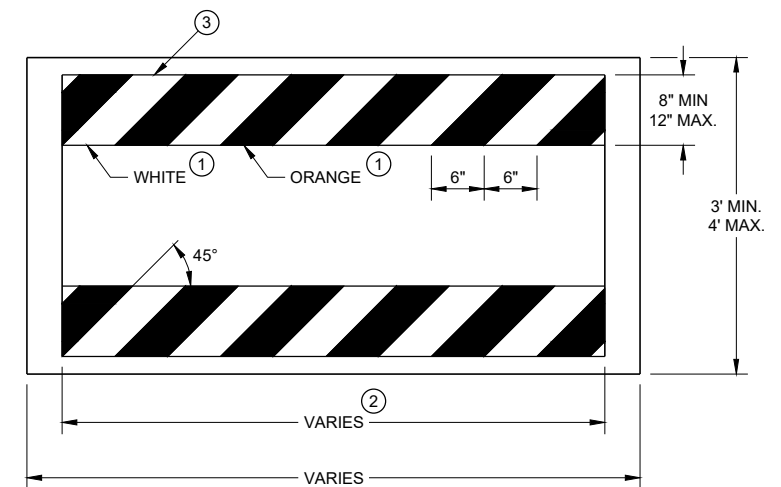
NARROW SIDEWALK PASSING DETAIL



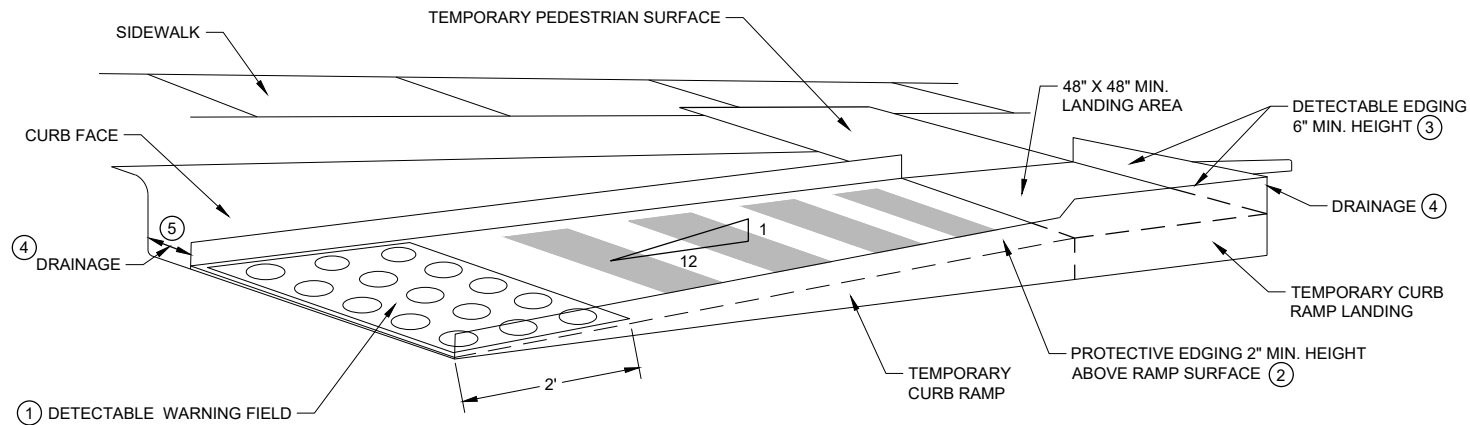
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

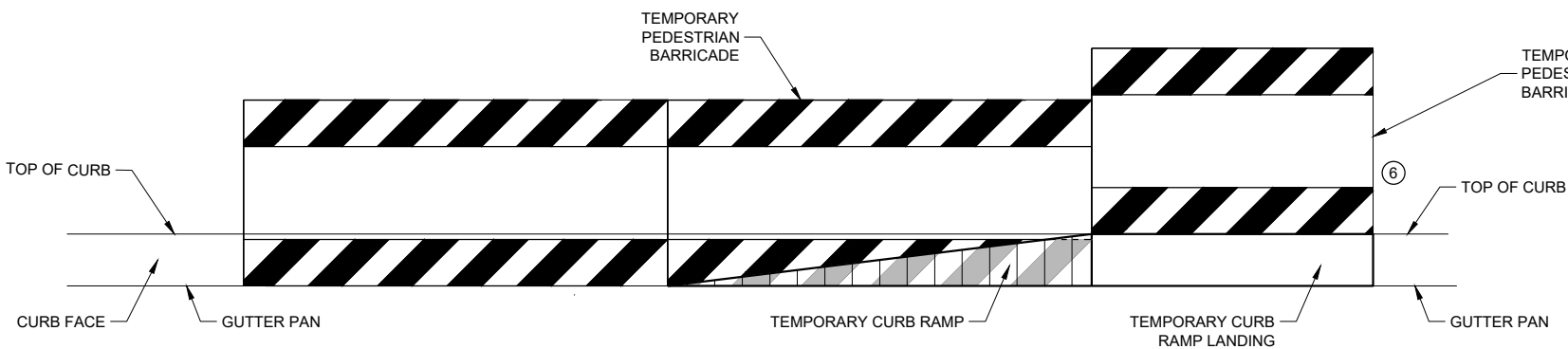
- BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST
- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
 - ② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
 - ③ PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- ★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



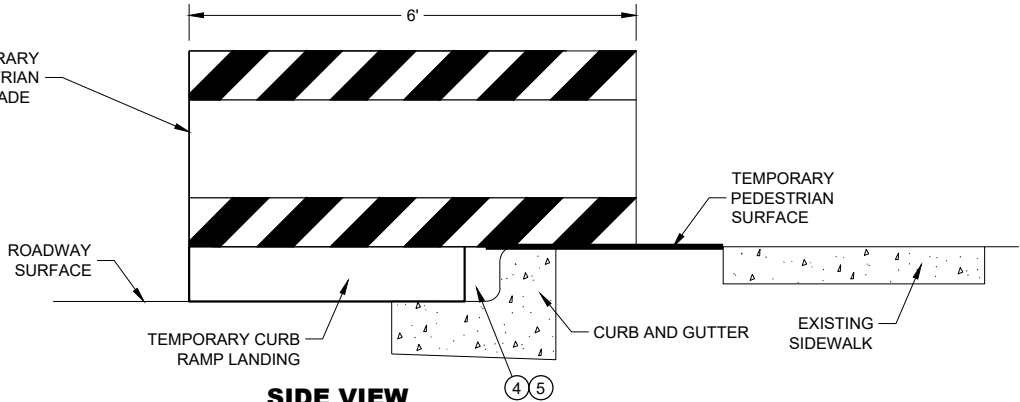
TEMPORARY PEDESTRIAN BARRICADE*



PERSPECTIVE VIEW



FRONT VIEW



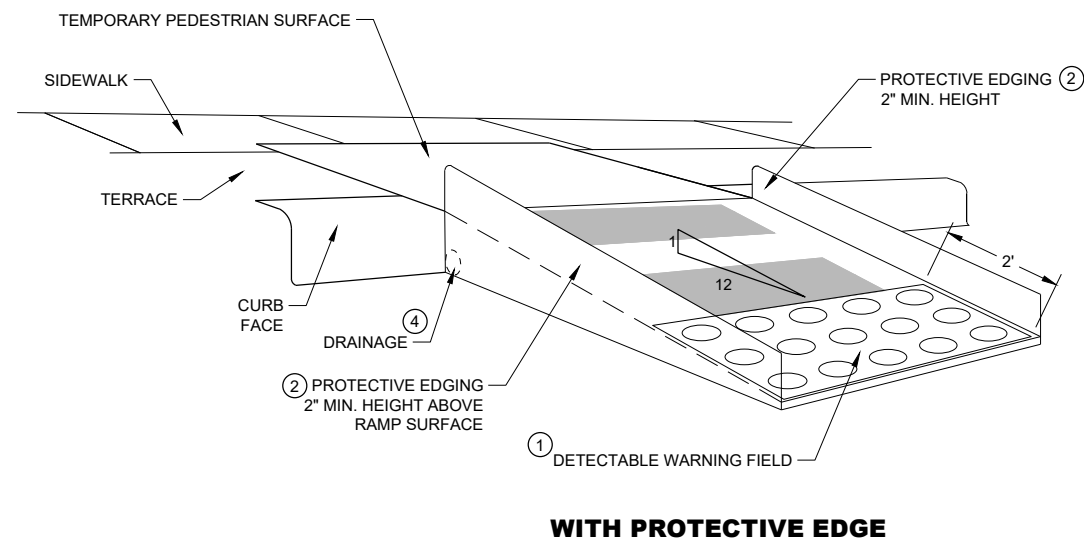
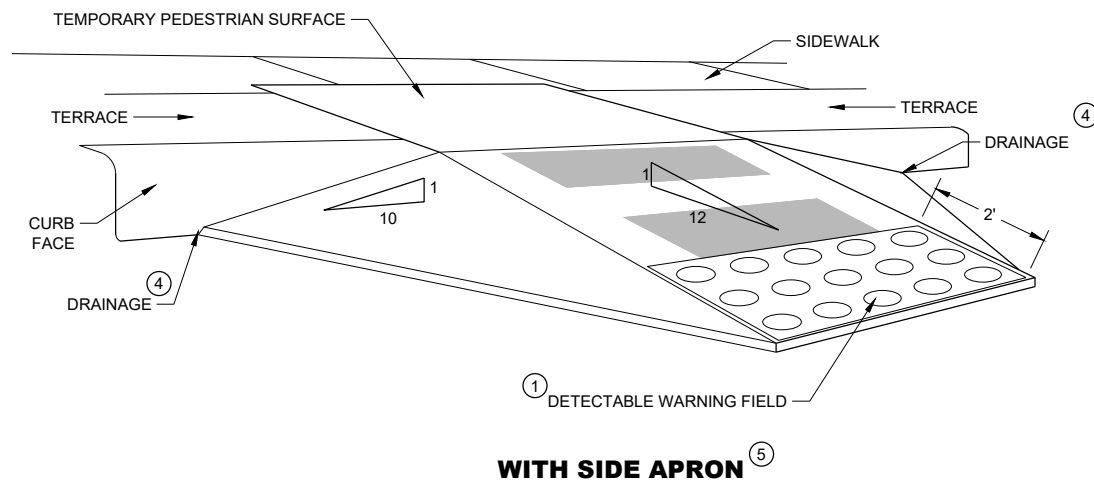
SIDE VIEW

TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

- CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES MAY BE VERTICAL UP TO 1/4" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.
- ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- ③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- ④ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- ⑤ ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
- ⑥ IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

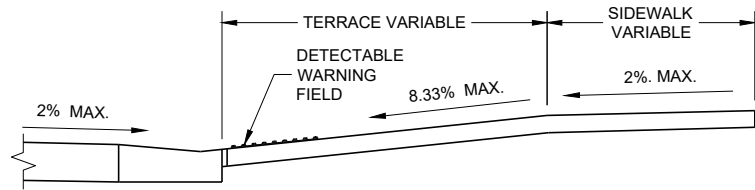
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

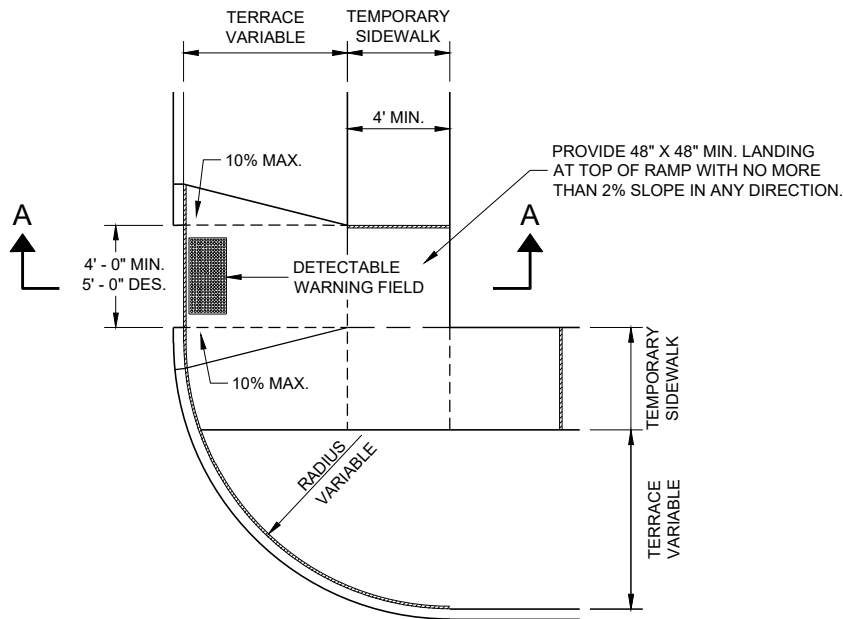
- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS
- ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- ③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- ④ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- ⑤ CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

**TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 131



SECTION A - A



PLAN VIEW
TEMPORARY TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

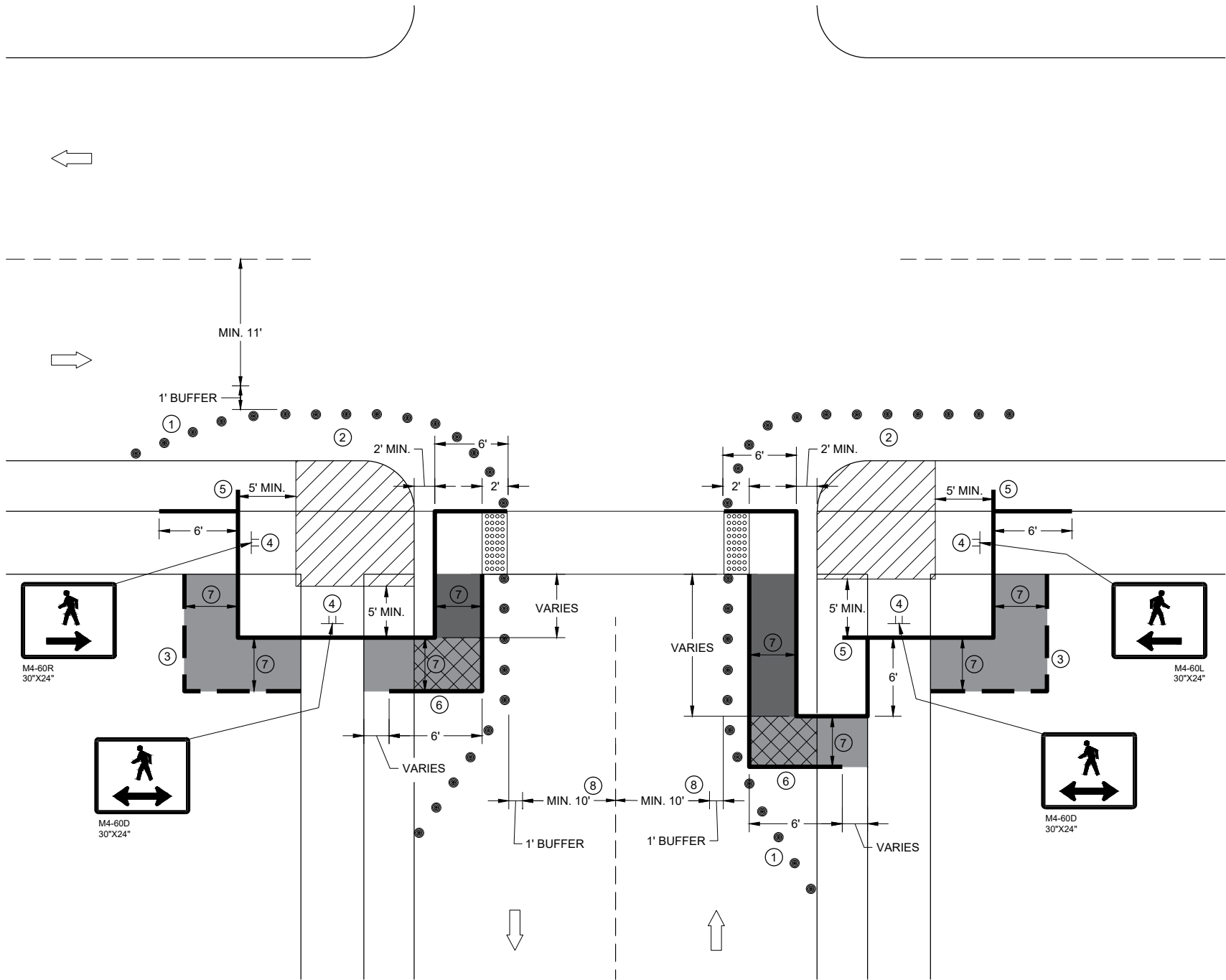
GENERAL NOTES

- BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST
- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
 - ② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
 - ③ PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- ★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 132
FHWA



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

- ① SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
- ② PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
- ③ USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- ④ MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
- ⑤ PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
- ⑥ IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
- ⑦ 4 FEET MINIMUM, 5 FEET DESIRABLE
- ⑧ IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 133

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.

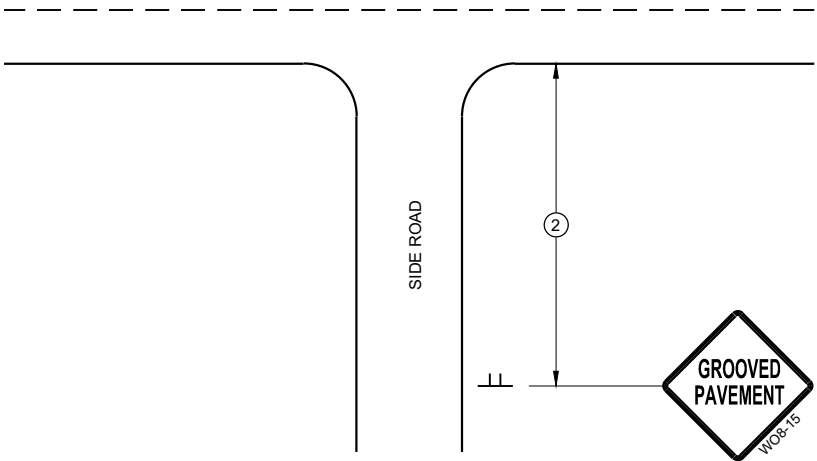
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

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.

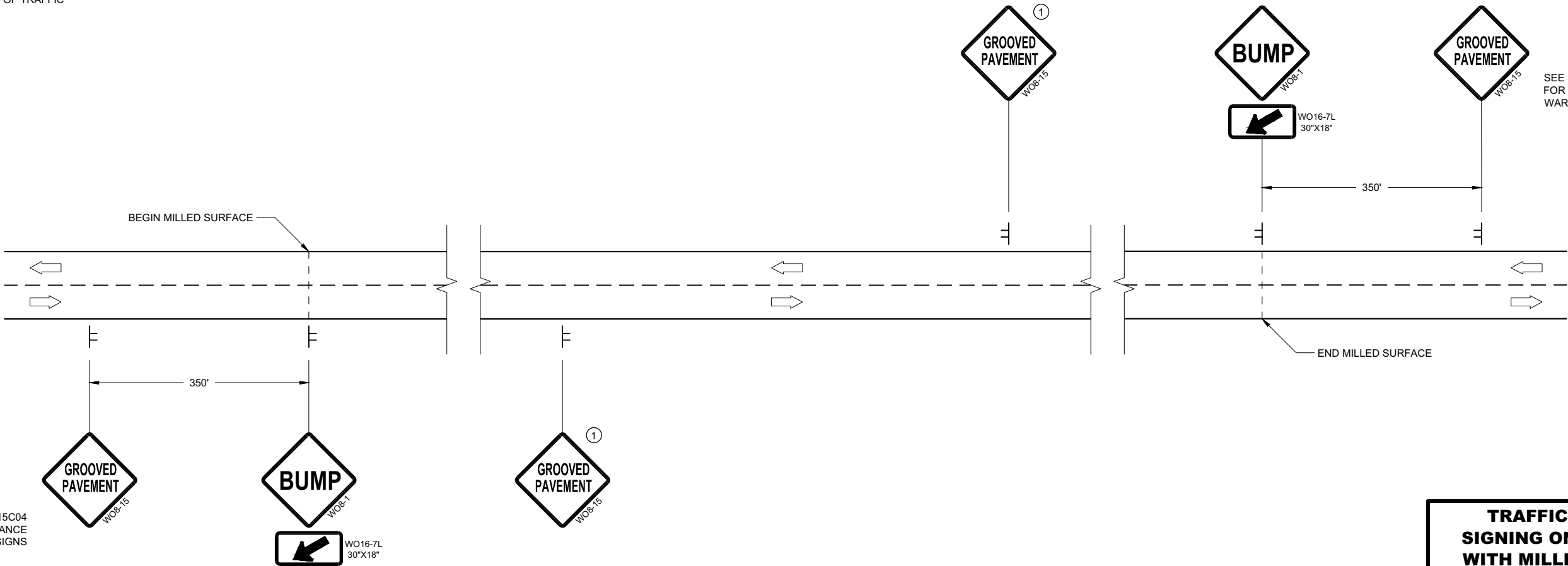
- ① PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- ② PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH
SIGN DETAIL



SEE SDD15C04
FOR ADVANCE
WARNING SIGNS

SEE SDD15C04
FOR ADVANCE
WARNING SIGNS

DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL,
SIGNING ON ROADWAYS
WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 134

FHWA

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

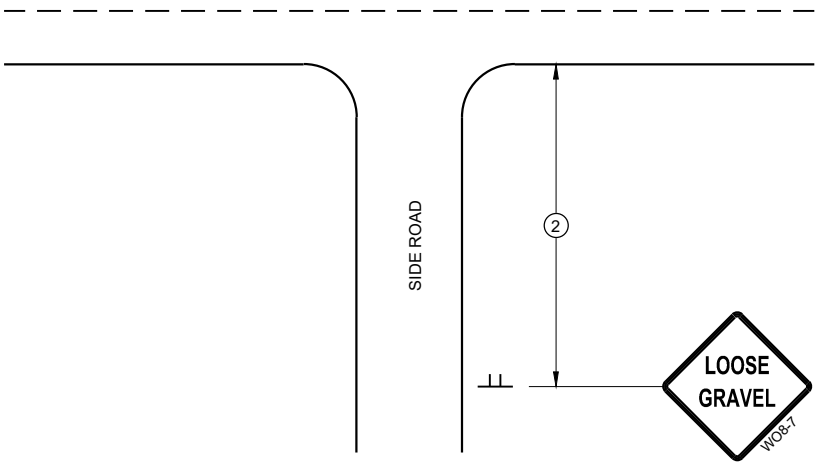
ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

LEGEND

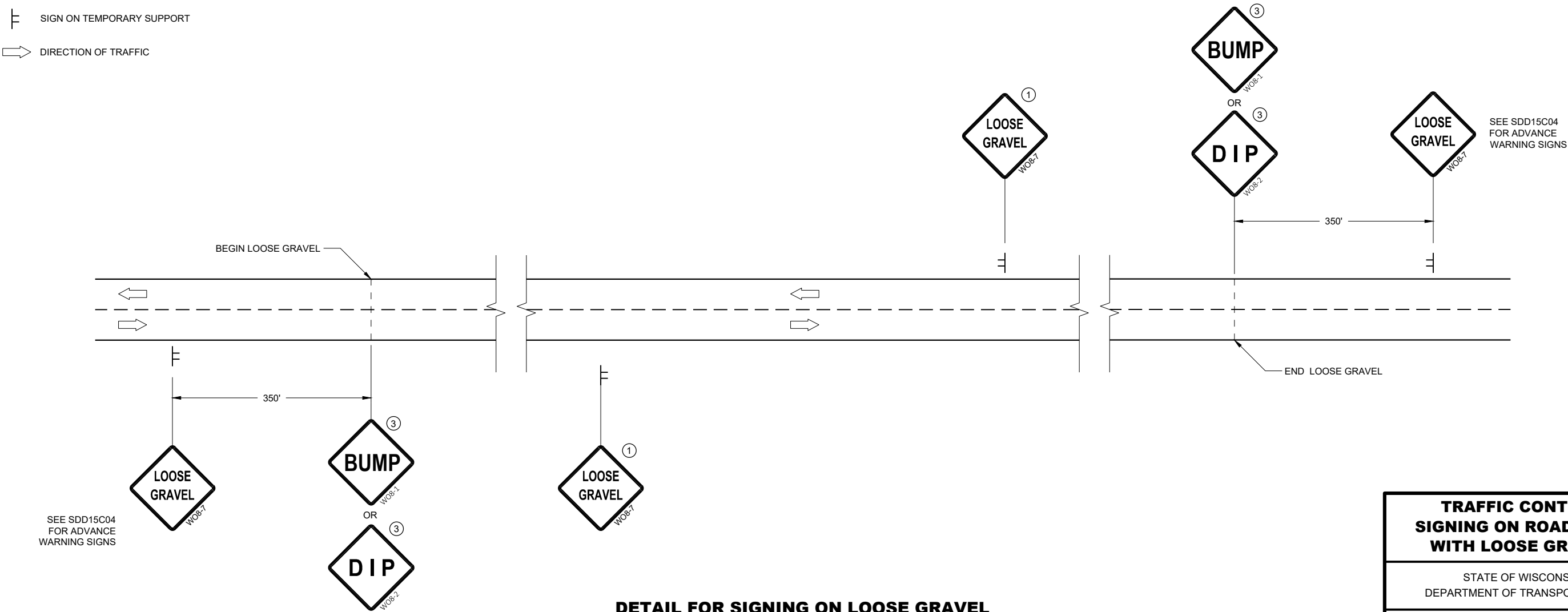
- 

SIGN ON TEMPORARY SUPPORT
- 

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH
SIGN DETAIL



SEE SDD15C04
FOR ADVANCE
WARNING SIGNS

SEE SDD15C04
FOR ADVANCE
WARNING SIGNS

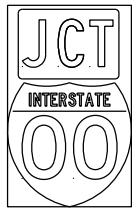
DETAIL FOR SIGNING ON LOOSE GRAVEL
OR CHIP SEALED SURFACES

TRAFFIC CONTROL
SIGNING ON ROADWAYS
WITH LOOSE GRAVEL

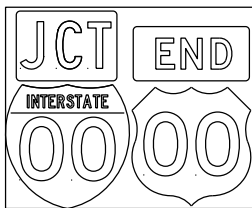
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 135
FHWA

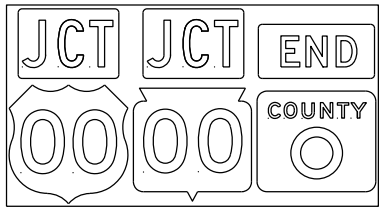
TYPICAL ASSEMBLIES



J1-1



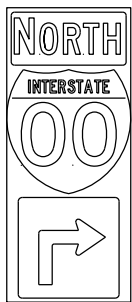
J1-2



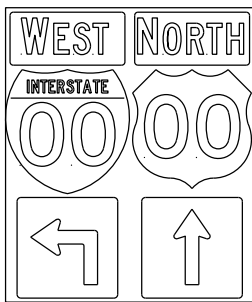
J1-3



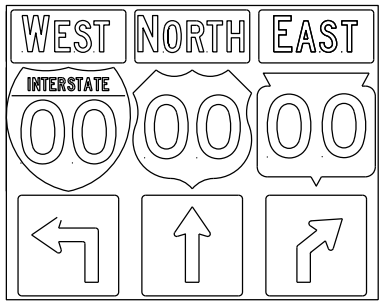
JR1-1



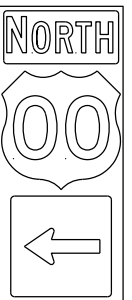
J2-1



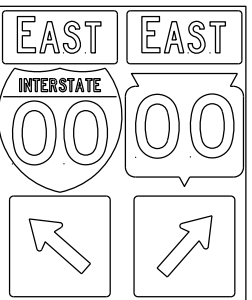
J2-2



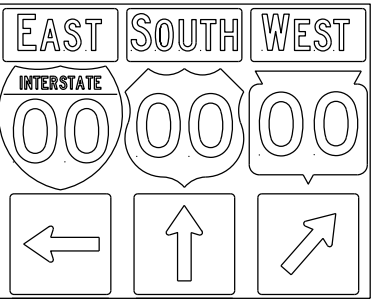
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J3-1



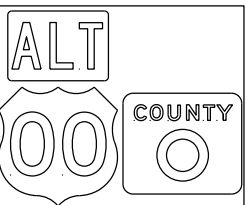
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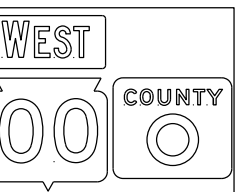
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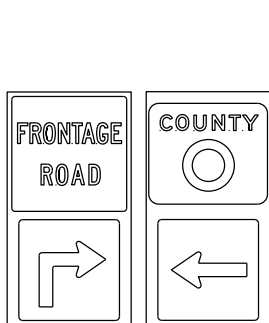
J4-1



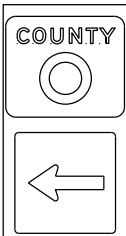
J4-2



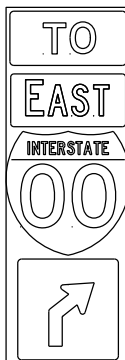
J4-2



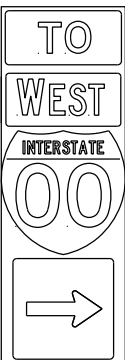
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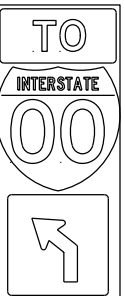
J13-1



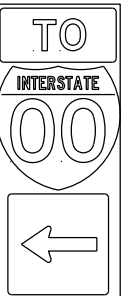
J32-1



J33-1



J22-1



J23-1



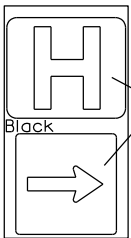
JR13-1



JR23-1



JR99-1

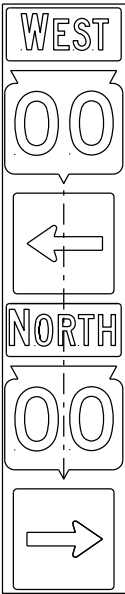
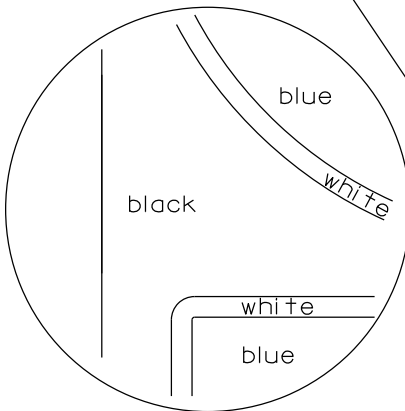


JH-1

Blue Background

Black

blue background with interstate

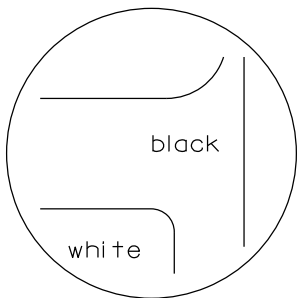
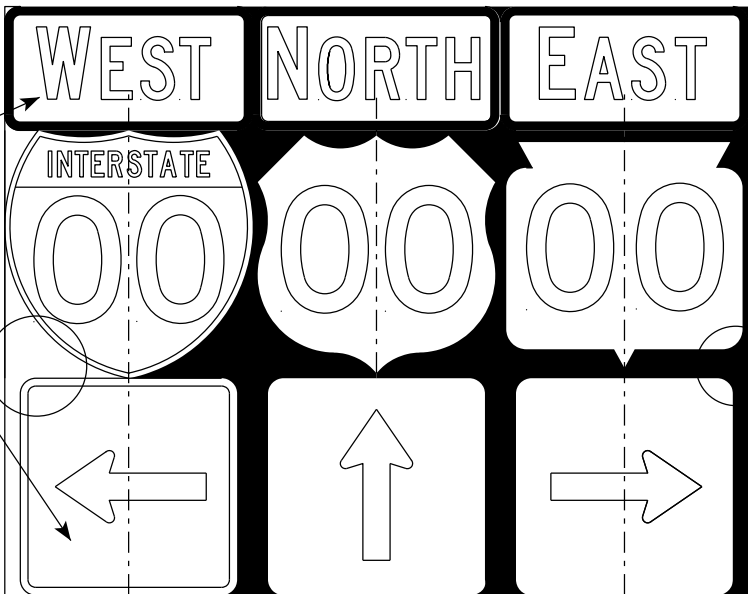


JV

(Typical Vertical J-Assembly
See Note 10 and 11)

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
Background - Black Non-reflective
Message - see Note 4
3. Message Series - See Note 4
4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
5. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
6. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
7. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
8. Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. All Vertical J Assemblies are given a Sign Code of JV
10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.



black background

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

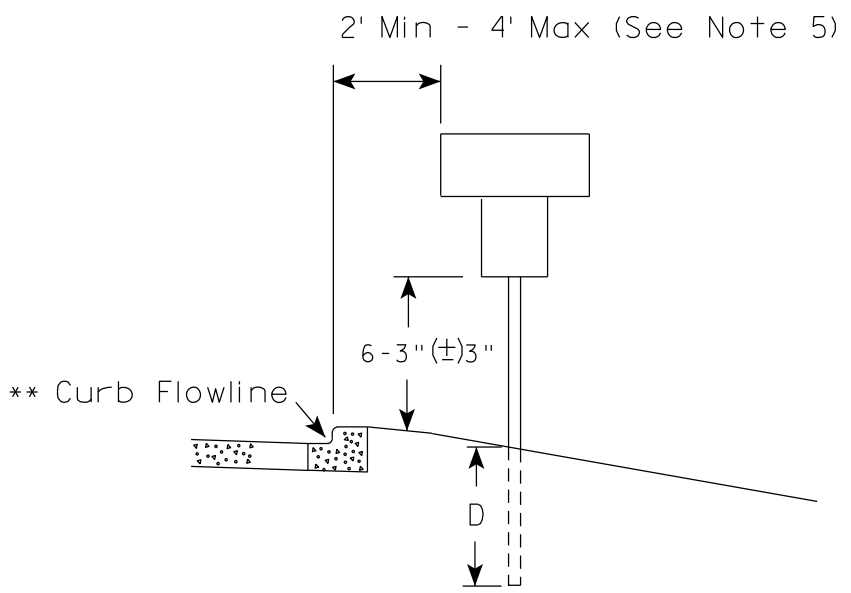
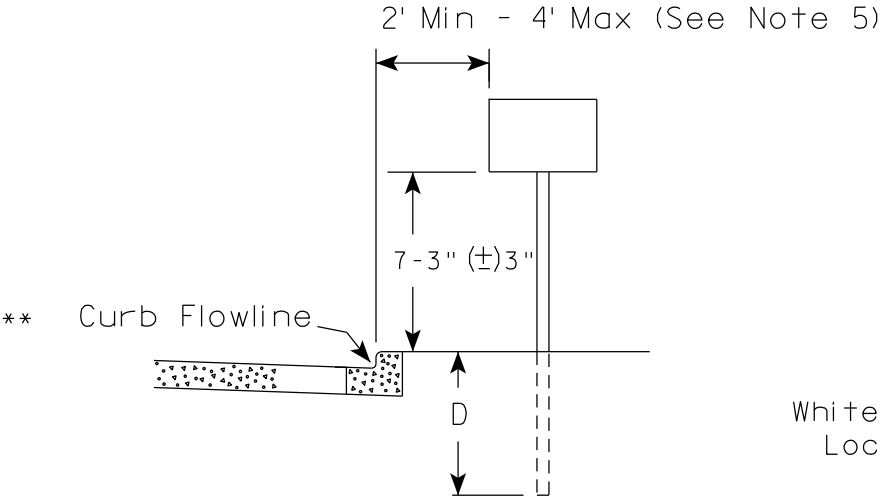
DATE 6/7/23 PLATE NO. A2-1S.10

PROJECT NO:

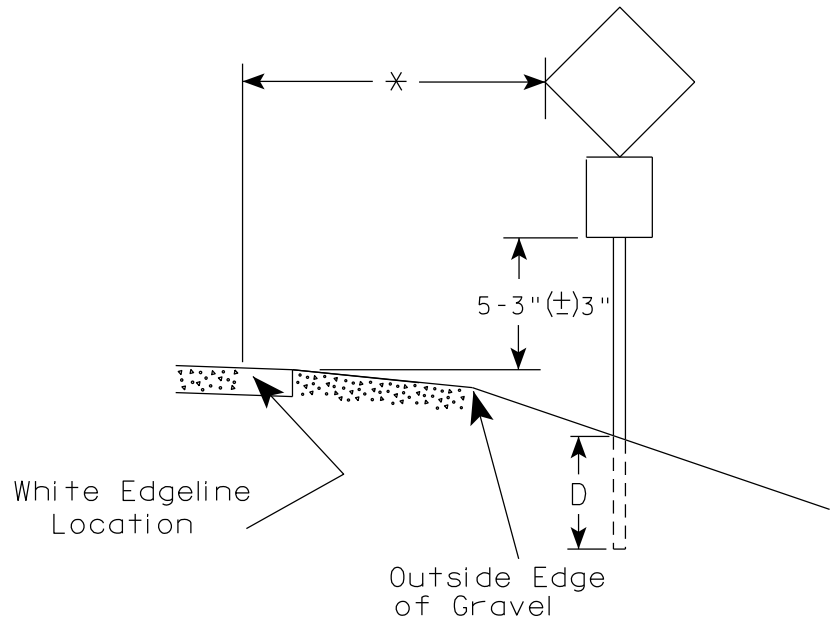
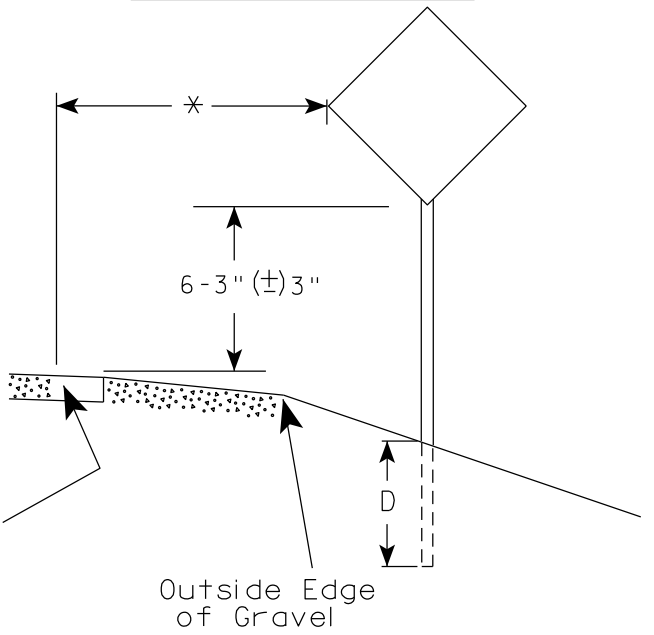
SHEET NO: 136

E

URBAN AREA



RURAL AREA (See Note 2)



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 directed by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

* * 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.

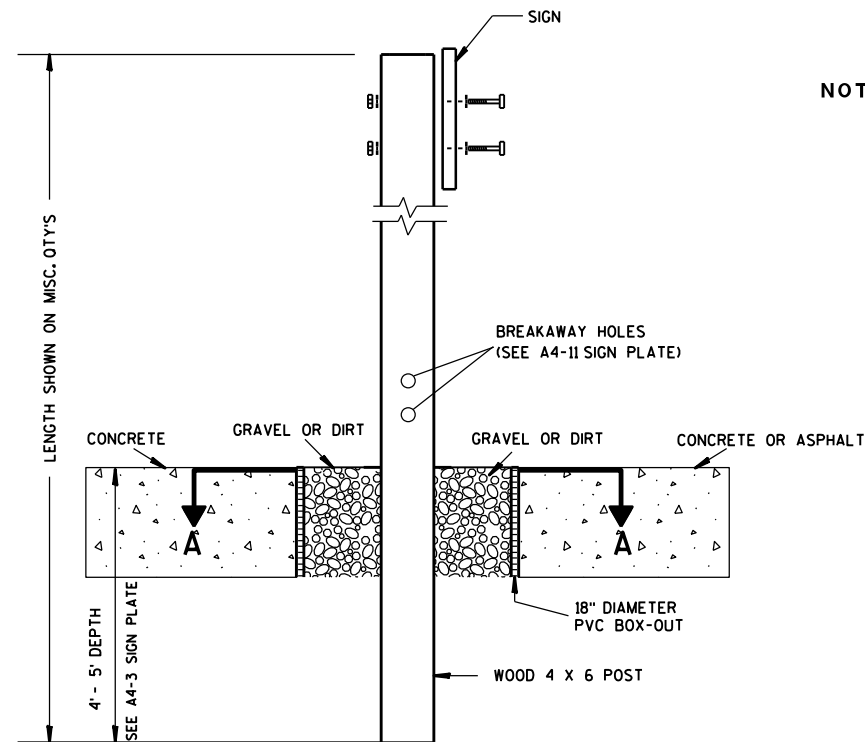
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

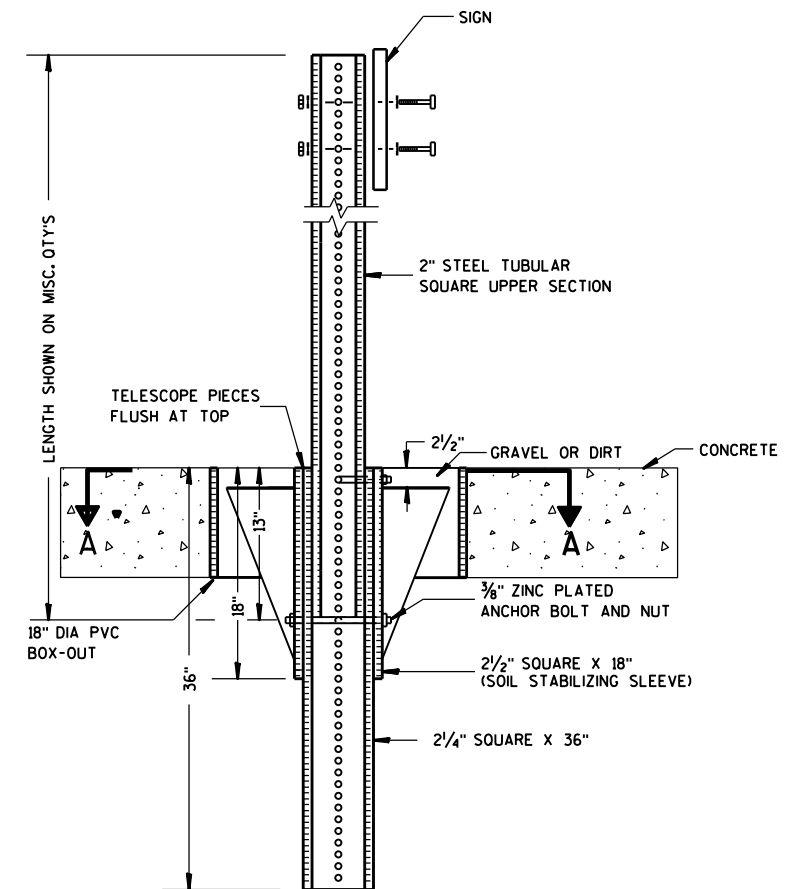
DATE 12/6/23 PLATE NO. A4-3.23



ELEVATION VIEW

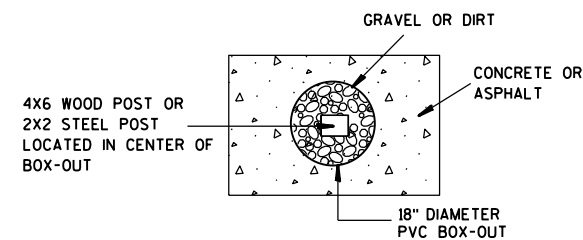
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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 PLAT 138 A4-3B.1

PROJECT NO:

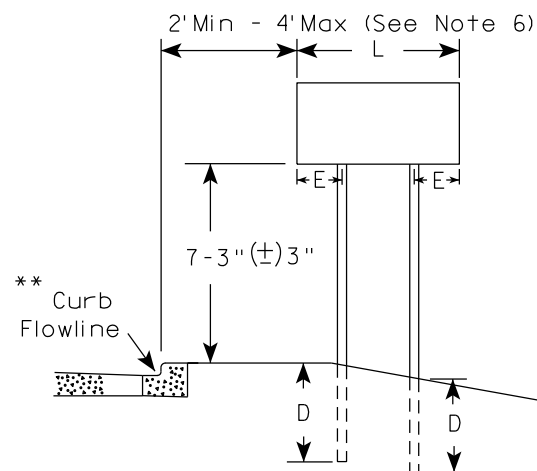
HWY:

COUNTY:

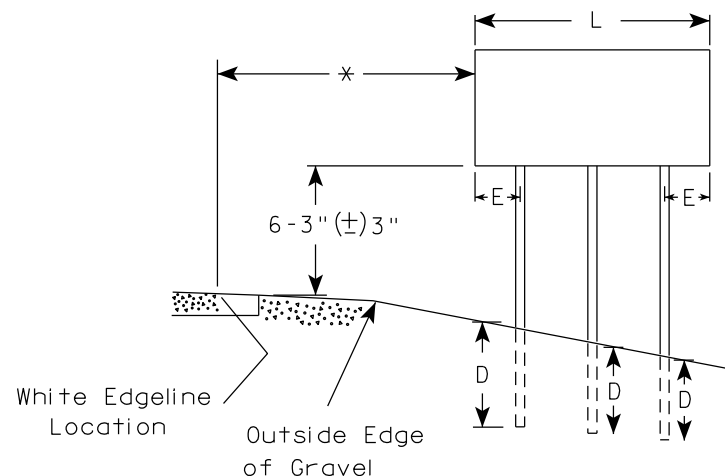
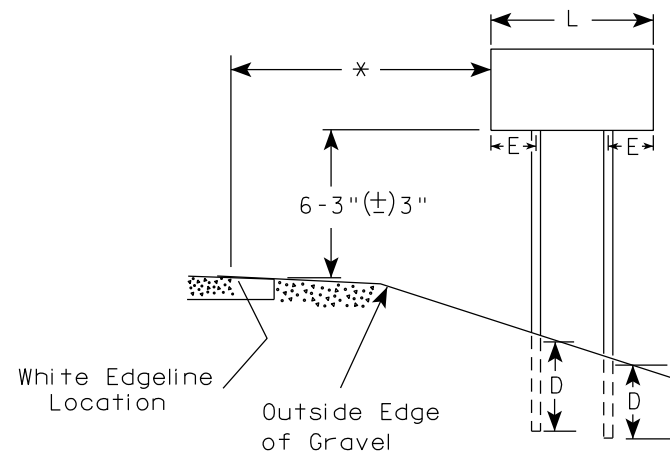
SHEET NO:

E

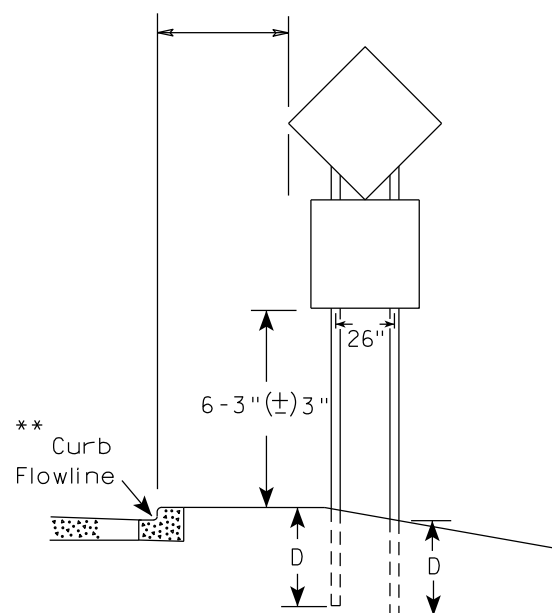
URBAN AREA



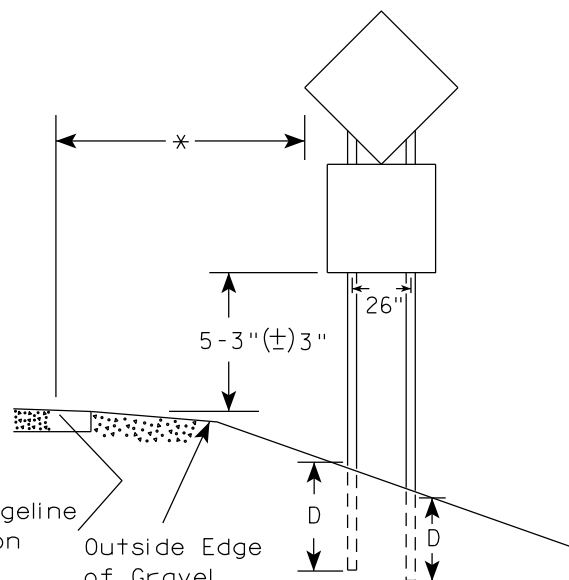
RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



48" DIAMOND WARNING SIGN



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"

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

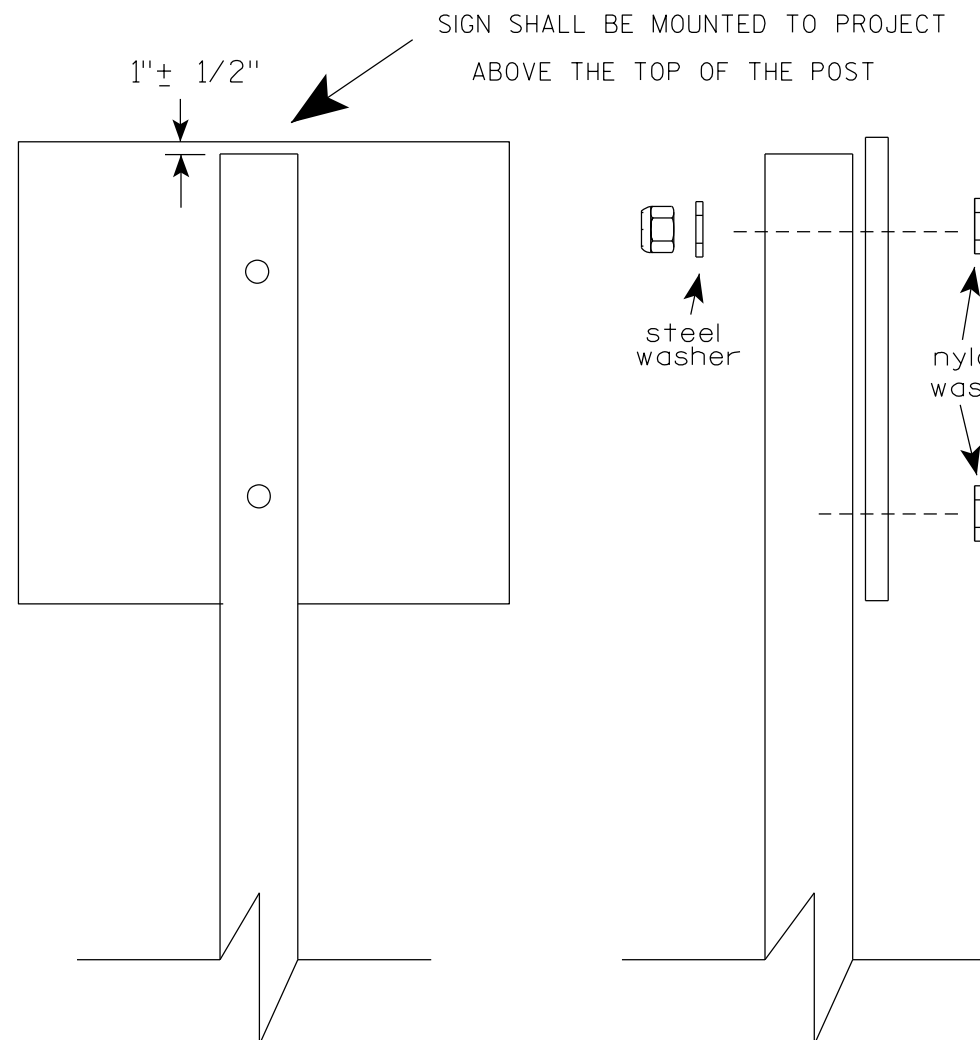
GENERAL NOTES

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.



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 - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS - $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)
- $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
- $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - $\frac{9}{32}$ " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
- 1-1/4" O.D. X $\frac{3}{8}$ " 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	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/1/2020	PLATE NO. A4-8.9

**2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**

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

2 1/2" TELES PAR TUBE

4"

2 1/2"

10"

1 1/2"

12 1/2"

4" x 10" x 10 GA. STEEL PLATE (CUT AS SHOWN) WELDED TO ALL FOUR CORNERS OF TELES PAR TUBE

SIGN

SEE SIGN PLATE
A4-8 FOR BOLT
WASHER, & NUT
MATERIAL

2" STEEL TUBULAR
SQUARE UPPER SECTION

ALL HOLES $\frac{7}{16}$ "
SPACED 1" C-C
ALL FOUR SIDES

$\frac{3}{8}$ " ZINC PLATED CORNER
ANCHOR BOLT AND NUT

2 1/2" GRAVEL OR DIRT

TELESCOPE PIECES
FLUSH AT TOP

18" DIA SCHEDULE
40 PVC
BOX-OUT

36"

18"

13"

2 1/2" SQUARE X 18"
(SOIL STABILIZING SLEEVE)

2 1/4" SQUARE X 36"

$\frac{3}{8}$ " ZINC PLATED
ANCHOR BOLT AND NUT

TECHNICAL DRAWING OF A SIGNPOST ASSEMBLY.

Side View Dimensions:

- Overall height: LENGTH SHOWN ON MISC. QTY'S
- Distance from ground to top of signpost: 36"
- Distance from ground to center of anchor bolt: 18"
- Distance from ground to center of anchor bolt: 12"

End View Dimensions:

- Distance from ground to center of anchor bolt: 1"

Labels and Specifications:

- SIGN
- SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
- 2" STEEL TUBULAR SQUARE UPPER SECTION
- ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C
- ALL FOUR SIDES
- $\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT
- TELESCOPE PIECES FLUSH AT TOP
- $\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT
- $2\frac{1}{2}$ " SQUARE X 18" (SOIL STABILIZING SLEEVE)
- $2\frac{1}{4}$ " SQUARE X 36"

3/8" ZINC PLATED CORNER
ANCHOR BOLT AND NUT

DIRECTION
OF TRAFFIC

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 PLATI 141 14-9.9

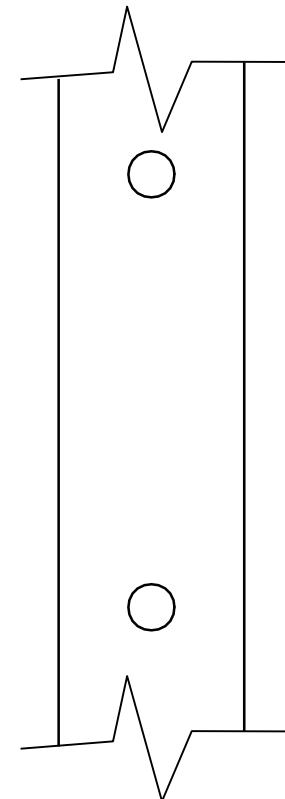
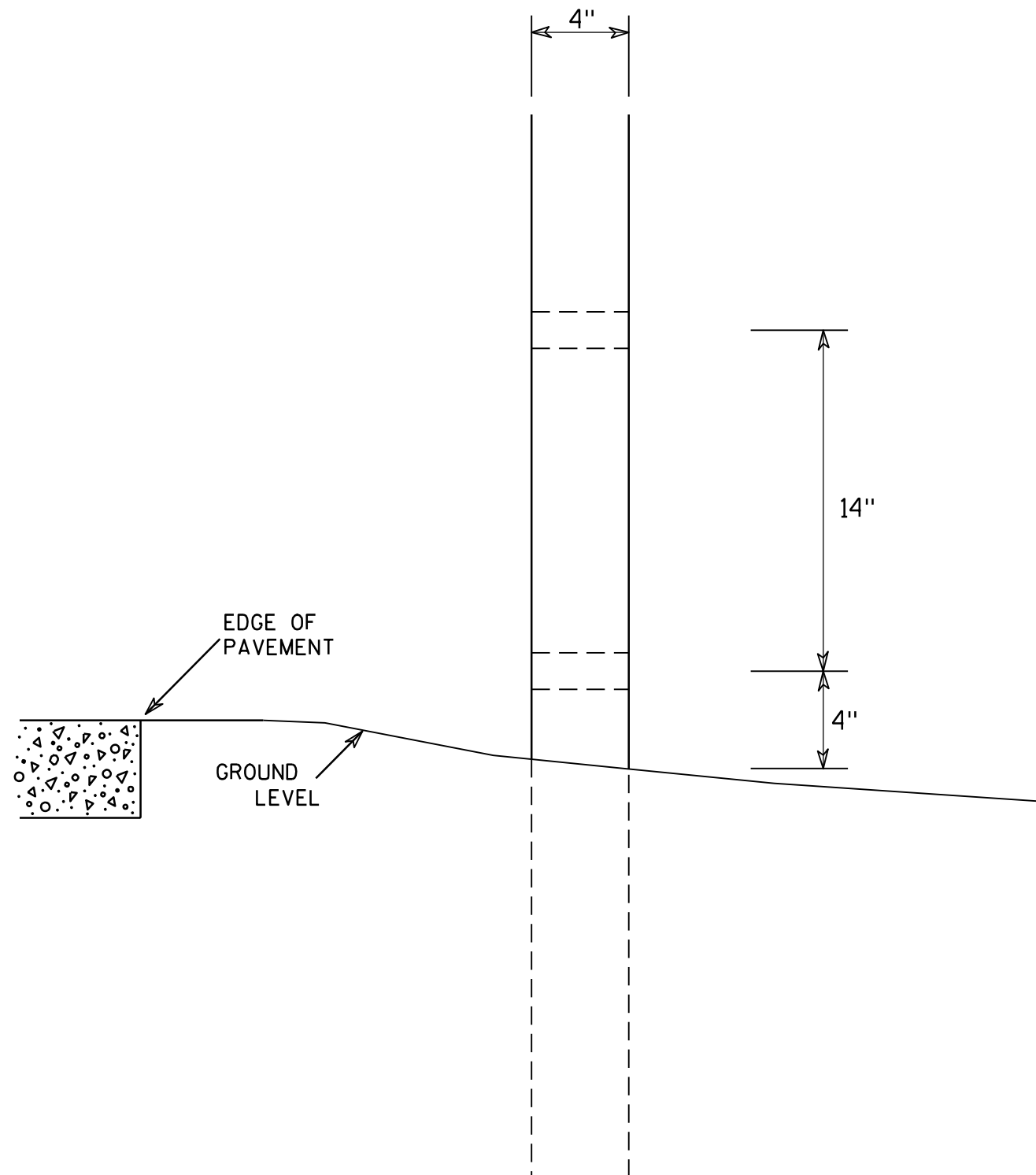
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

T



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:

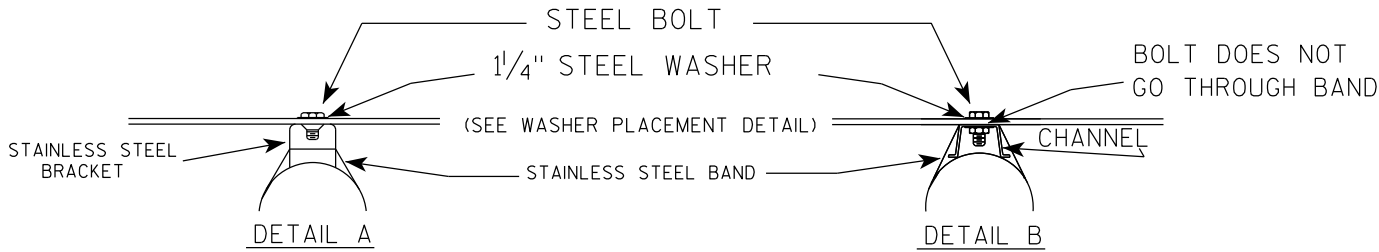
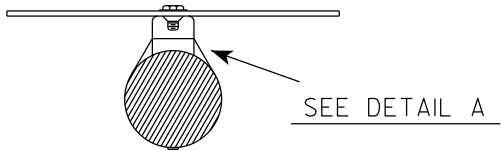
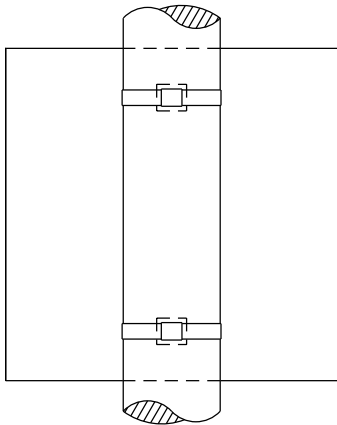
COUNTY:

SHEET NO: 142

E

BANDING

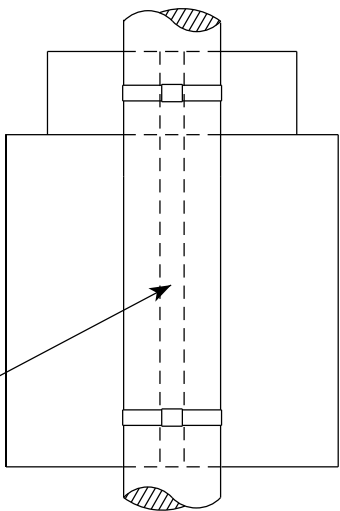
SINGLE SIGN



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 $\frac{3}{4}$ " 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

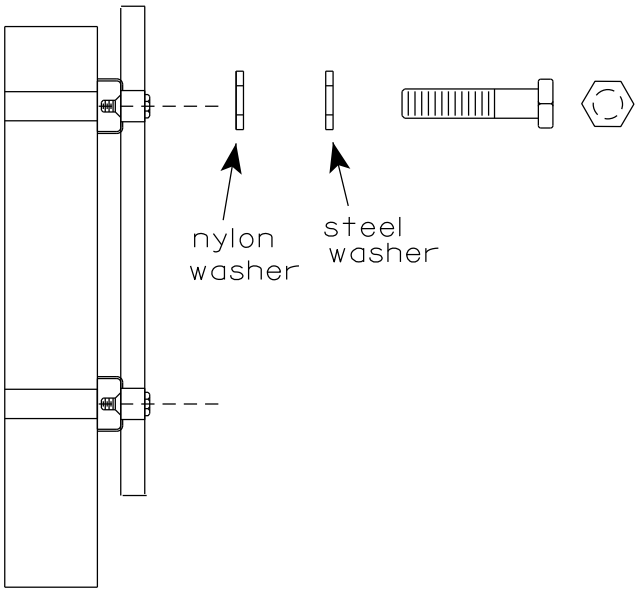
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

SEE DETAIL B

WASHER PLACEMENT

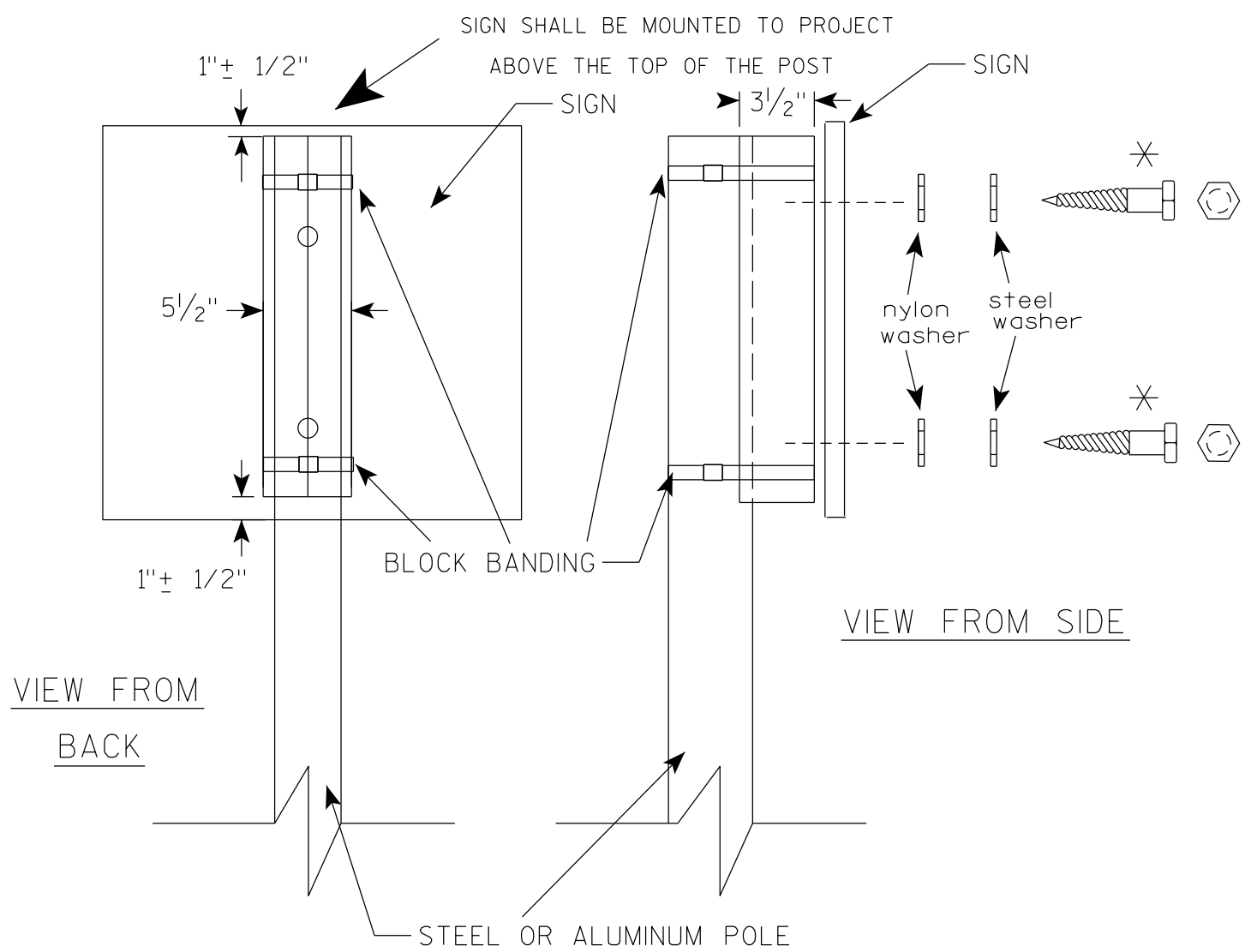


WASHERS (ALL POSTS) -
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

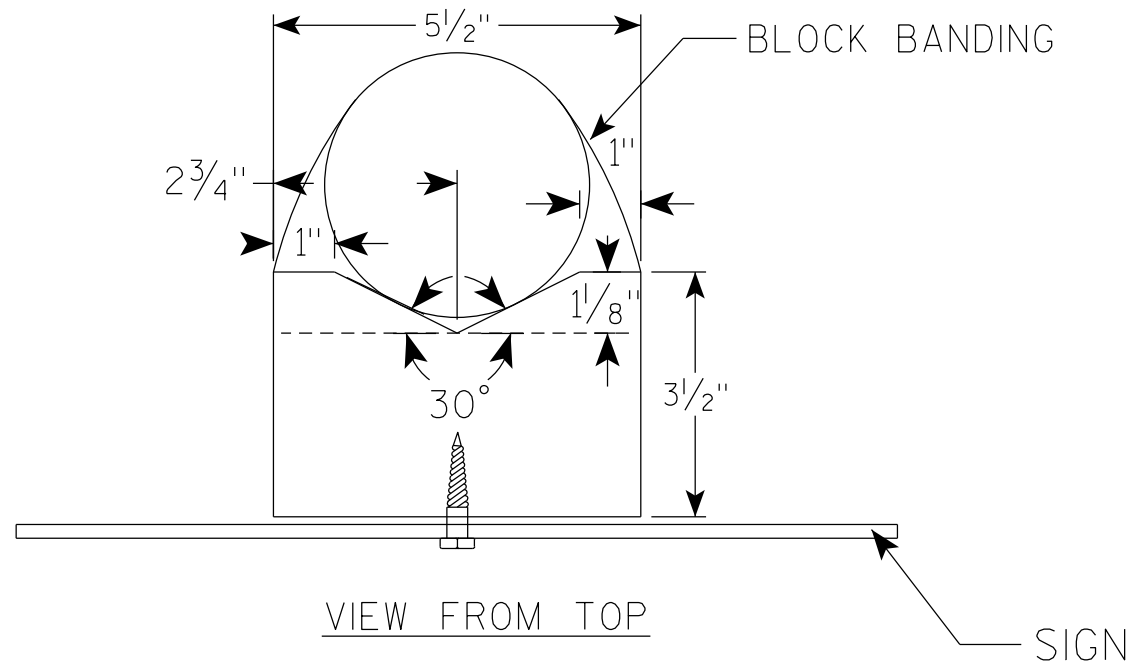
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/10/19 PLATE NO. A5-9.4



VIEW FROM
BACK

VIEW FROM SIDE



VIEW FROM TOP

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, $\frac{3}{4}$ " 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 NORMALLY 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 $\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
8. NYLON WASHERS SHALL BE $\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

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:

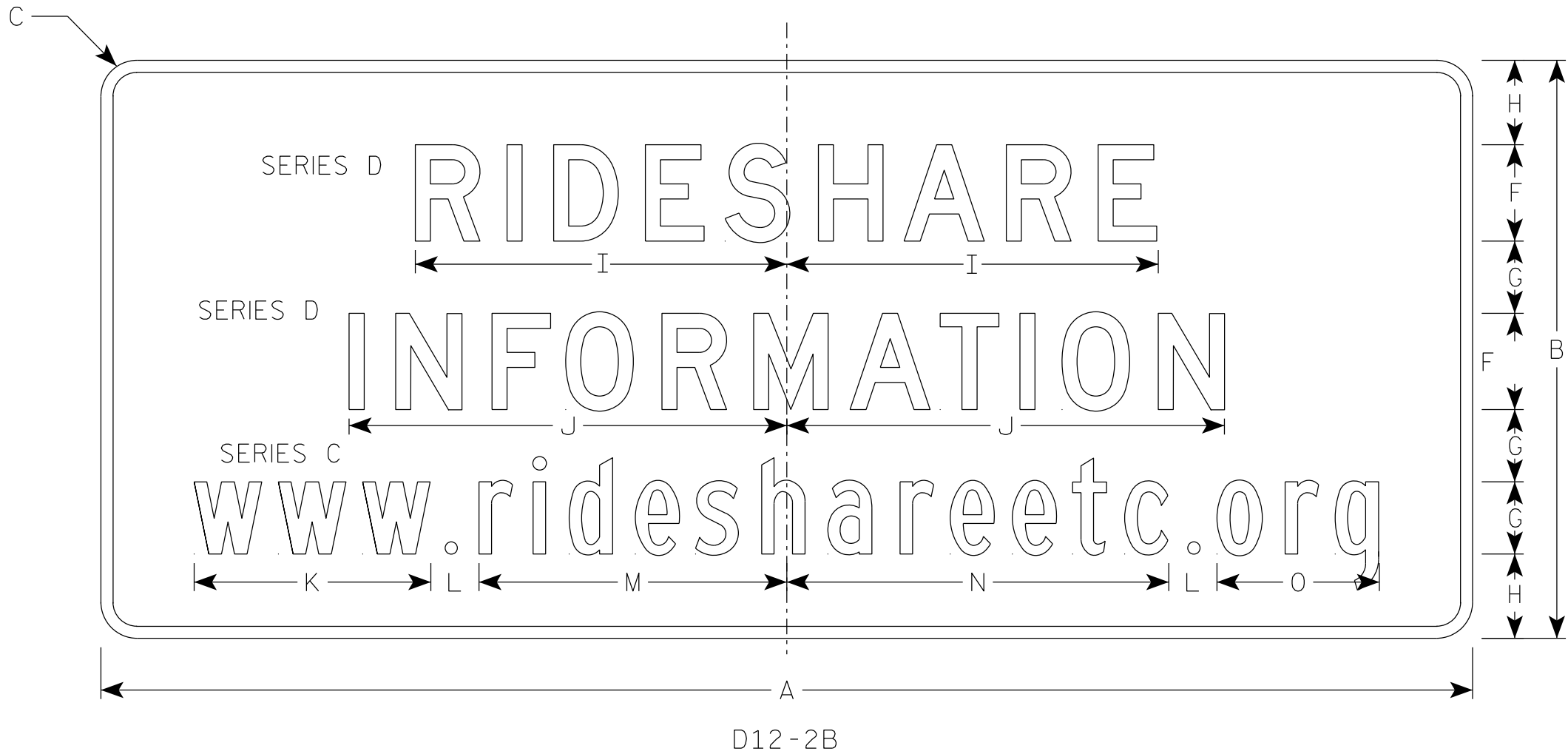
SHEET NO: 144

E

7

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - Blue
Message - White
- 3. Message Series - Lines 1 & 2 are Series D and Line 3 is Series C



7

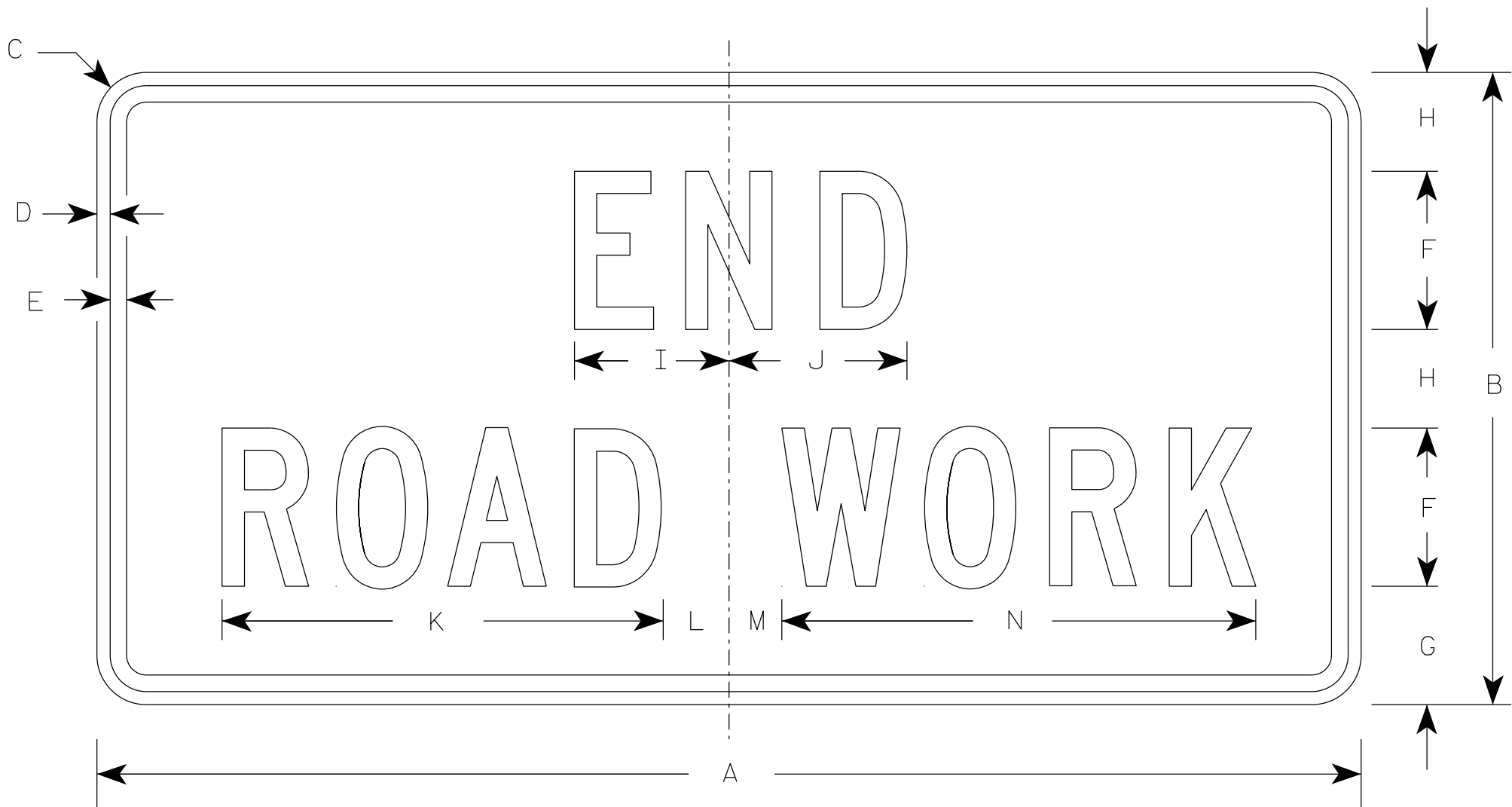
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	84	36	2 1/4		3/4	6	4 1/2	5 1/4	24 1/4	28 5/8	14 3/4	3	19 1/4	23 7/8	10 1/8												21.0
2M	84	36	2 1/4		3/4	6	4 1/2	5 1/4	24 1/4	28 5/8	14 3/4	3	19 1/4	23 7/8	10 1/8												21.0
3	84	36	2 1/4		3/4	6	4 1/2	5 1/4	24 1/4	28 5/8	14 3/4	3	19 1/4	23 7/8	10 1/8												21.0
4	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 5/8	31 3/4	13 1/2												38.0
5	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 5/8	31 3/4	13 1/2												38.0

NOTES

1. Sign is Type II - Type F Reflective
2. Color:

Background - Orange

Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



G20-2A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

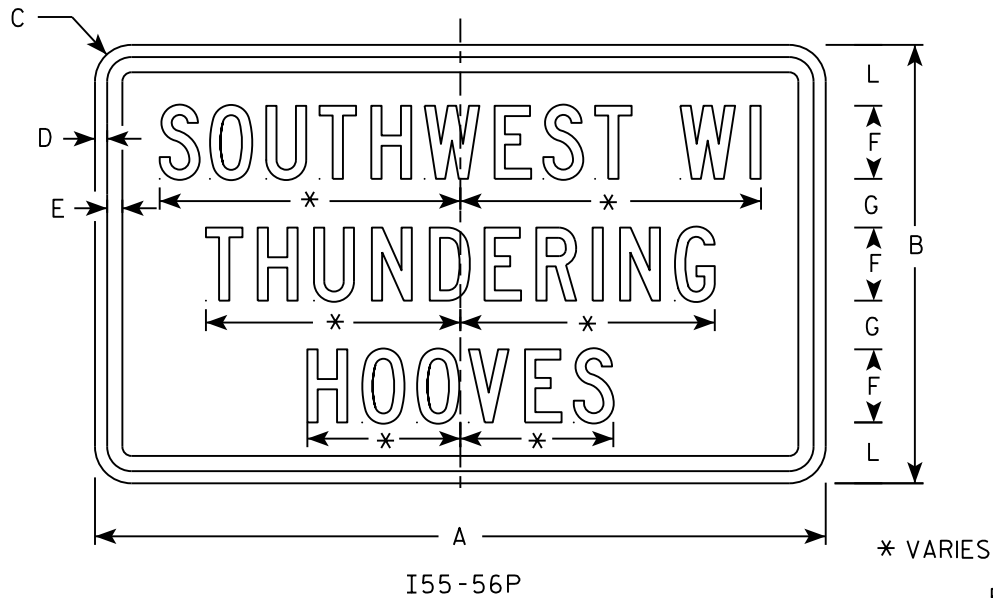
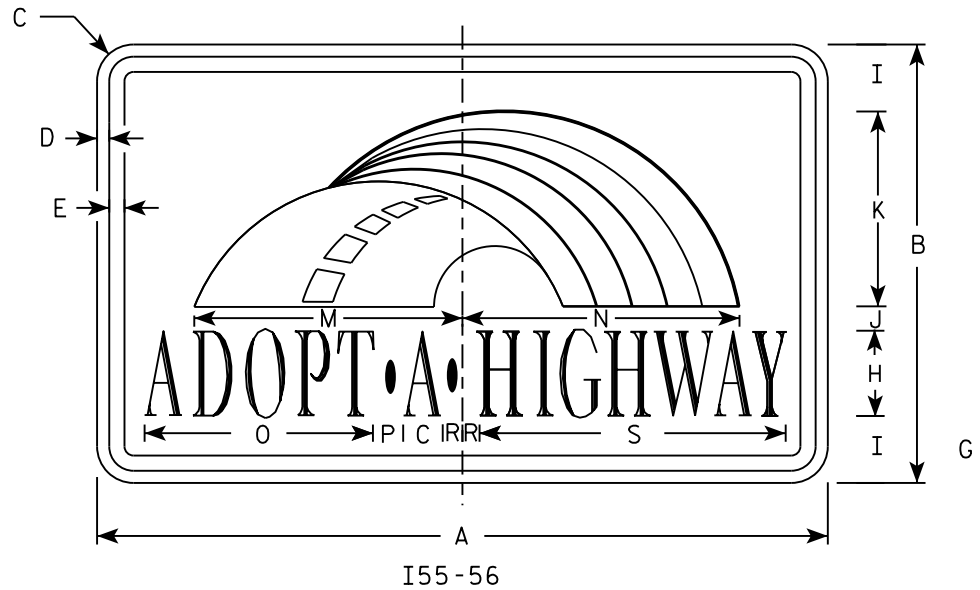
PROJECT NO:

HWY:

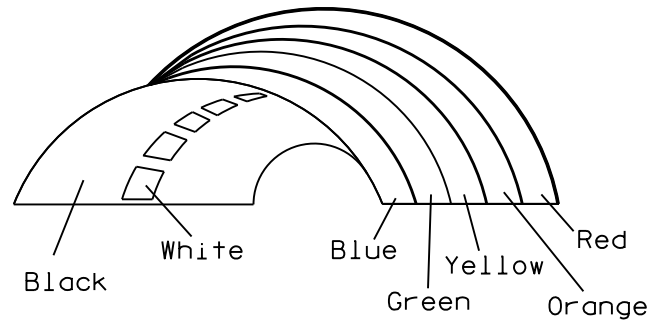
COUNTY:

SHEET NO: 146

E



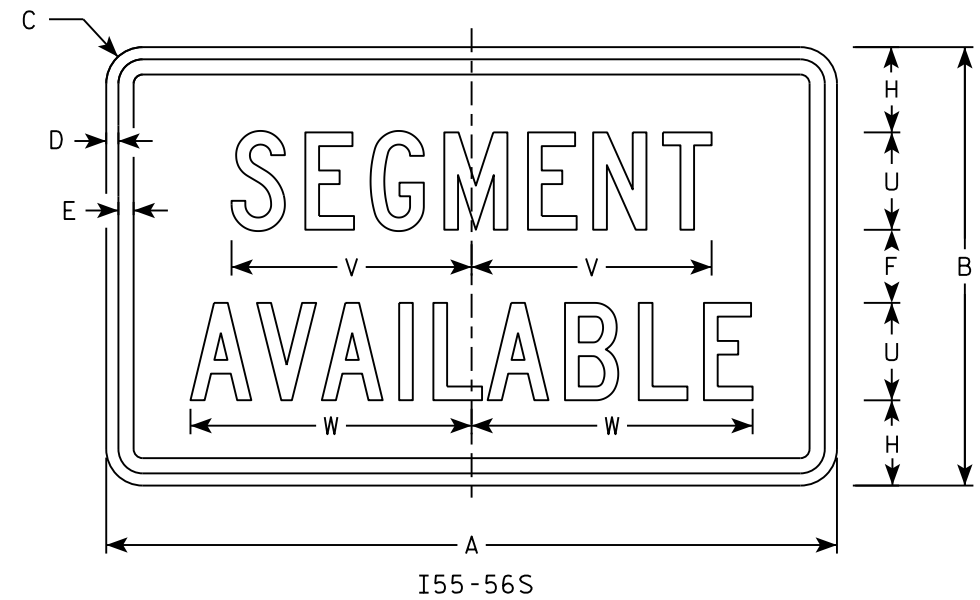
Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - (See Note 4)
3. Message Series - (See Note 5)
4. Border - Blue
Adopt a Highway - Red
All other Text - Blue
5. Adopt a Highway - Dutch 8011L
All other Text - Series C
6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign 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	18	1 1/2	1/2	5/8	3	2	3 1/2	2 3/4	1	8	2 1/2	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 147

E

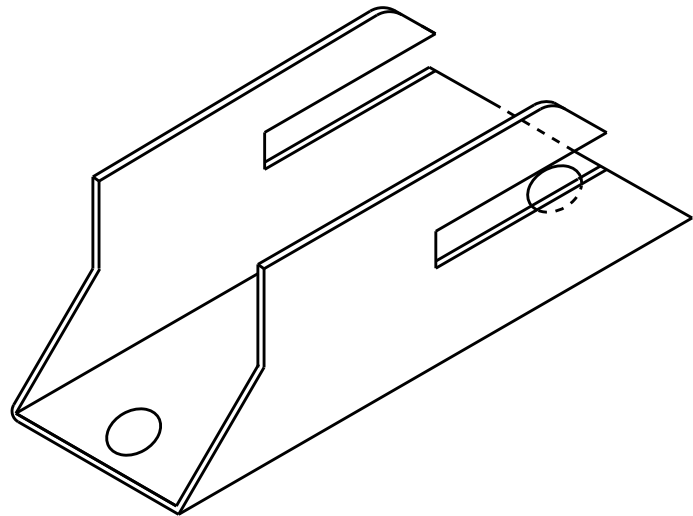
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

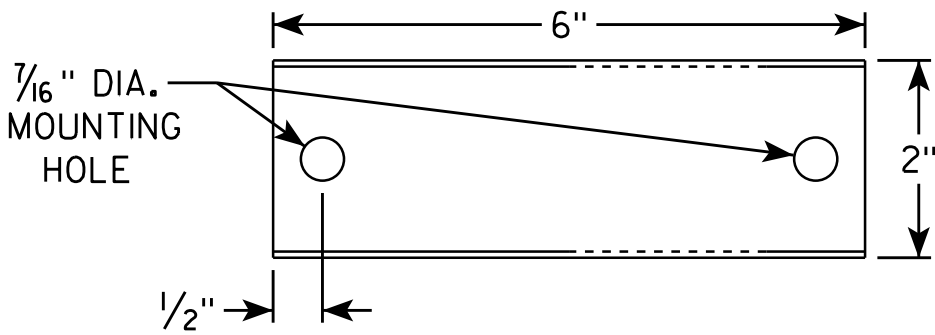
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/20/18 PLATE NO. I55-56.4

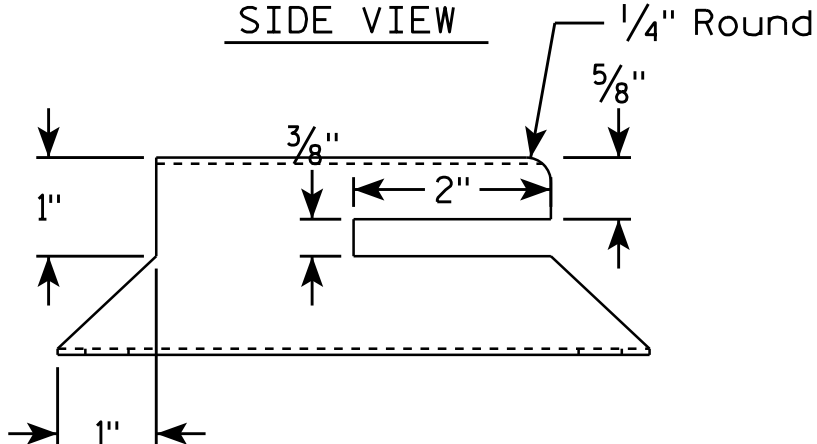
ISOMETRIC VIEW



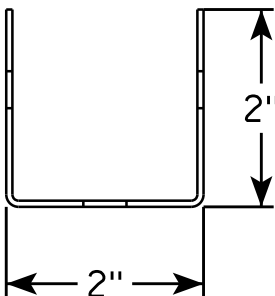
TOP VIEW



SIDE VIEW



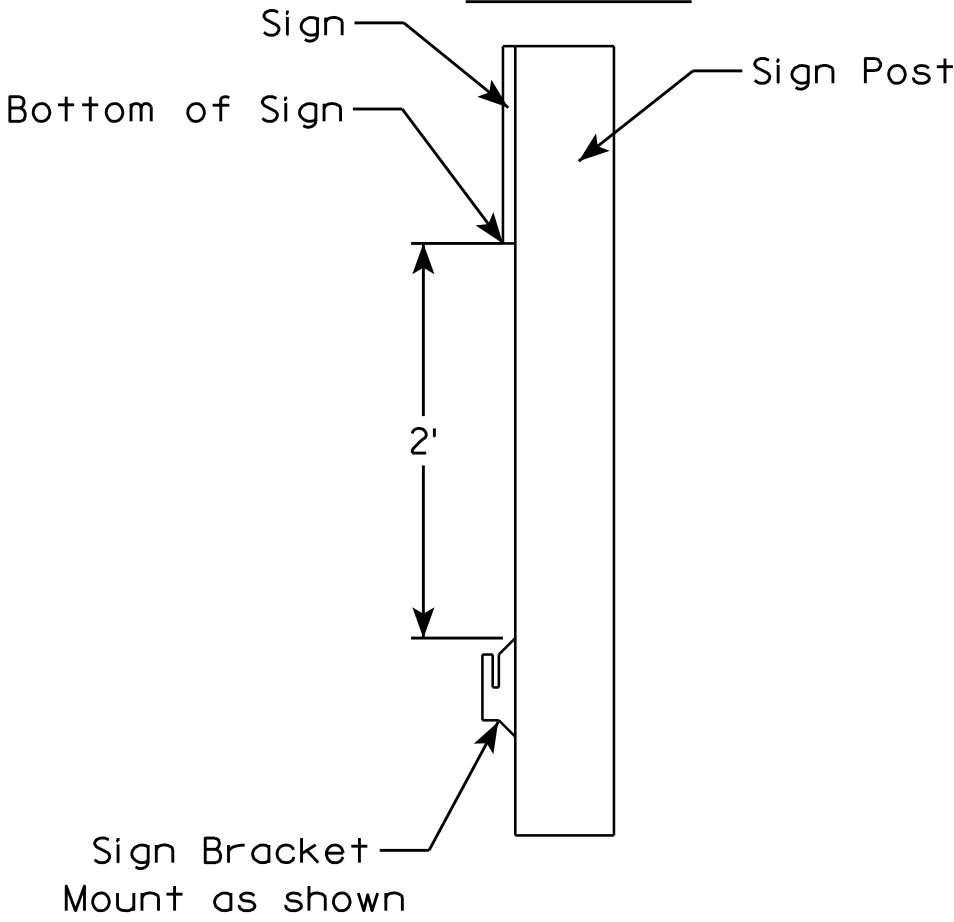
END VIEW



NOTES

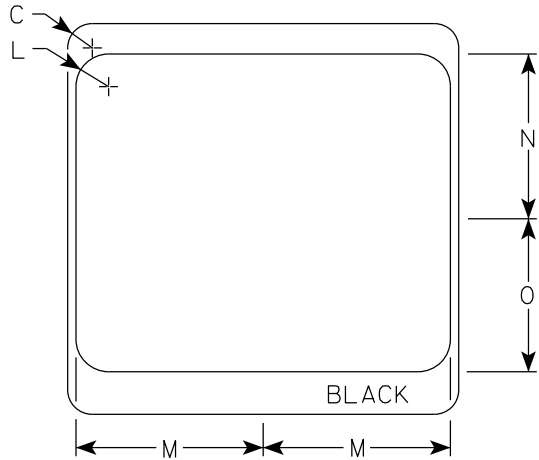
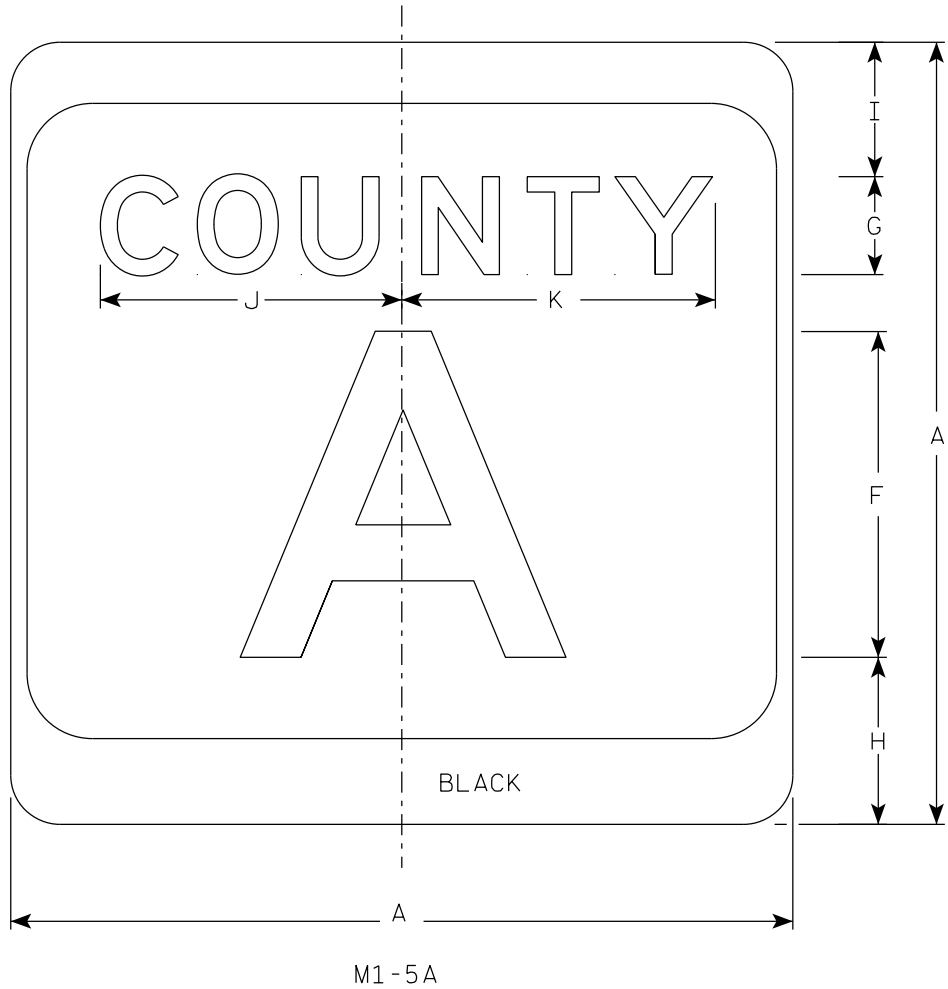
1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW

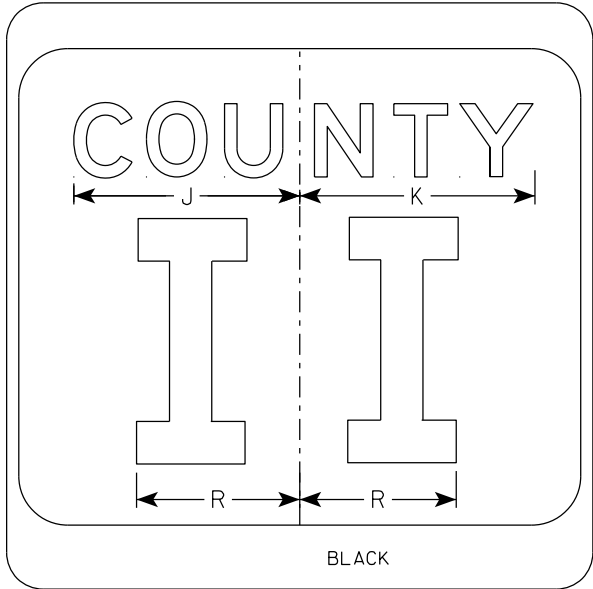
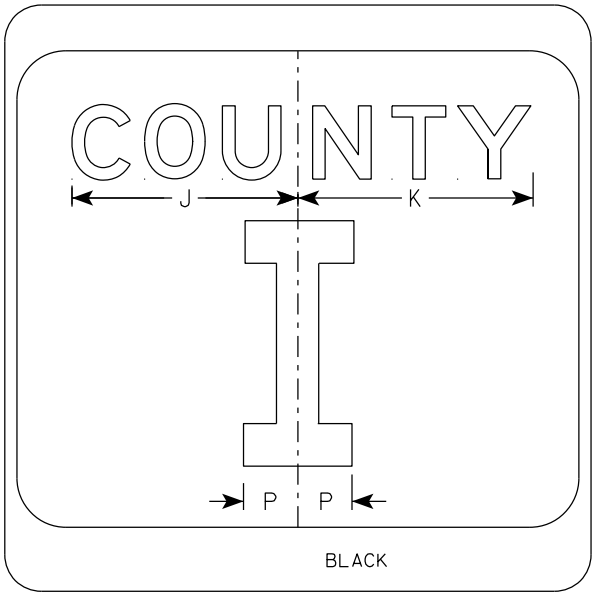


ROLLUP SIGN BRACKET I55-56B	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 4/26/16	PLA 148 I55-56B.2

7



- NOTES
- Sign is Type II - Type H Reflective
 - Color:
Background - White & Black
Message - Black
 - Message Series - see Note 4
 - Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
 - Substitute appropriate letters & optically center to achieve proper balance.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER

M1-5A FOR ASSEMBLIES

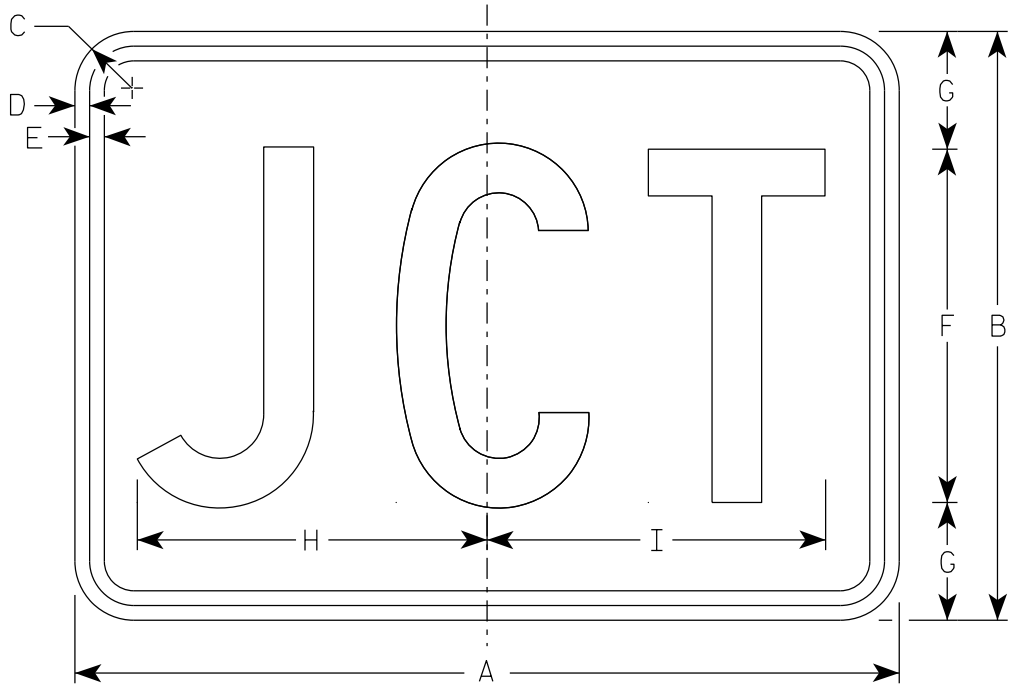
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

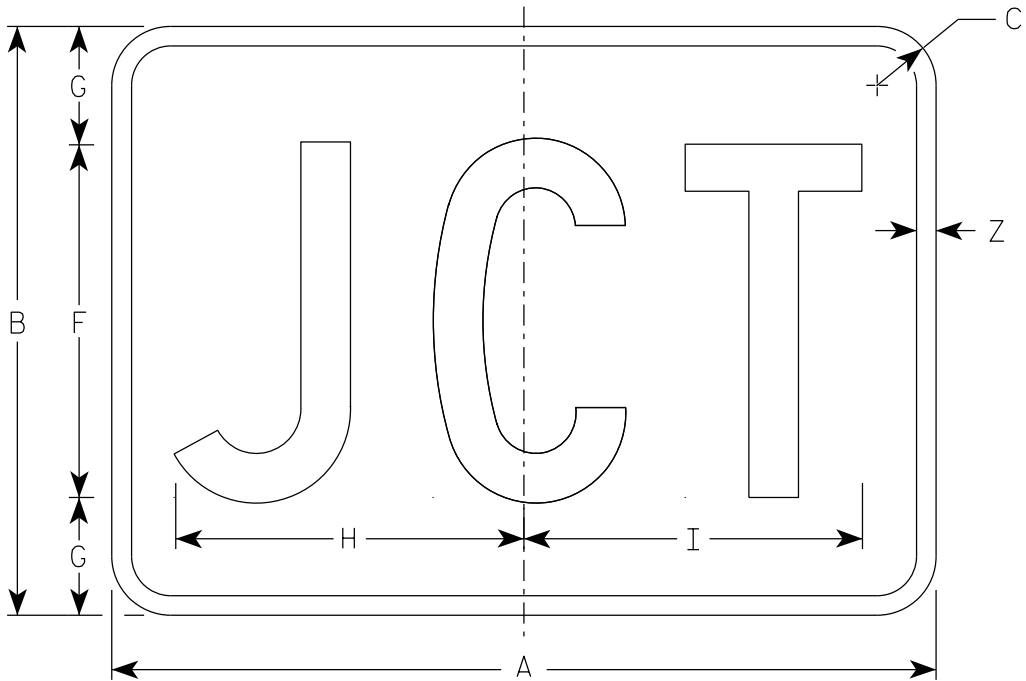
DATE 11/8/2022 PLATE NO. M1-5A.9

7

7



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. M2-1 Background - White
Message - Black
MB2-1 Background - Blue
Message - White
MK2-1 Background - Green
Message - White
MM2-1 Background - White
Message - Green
MN2-1 Background - Brown
Message - White
MP2-1 Background - White
Message - Blue
MR2-1 Background - Brown
Message - Yellow

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
2M	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
3	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
4	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
5	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40

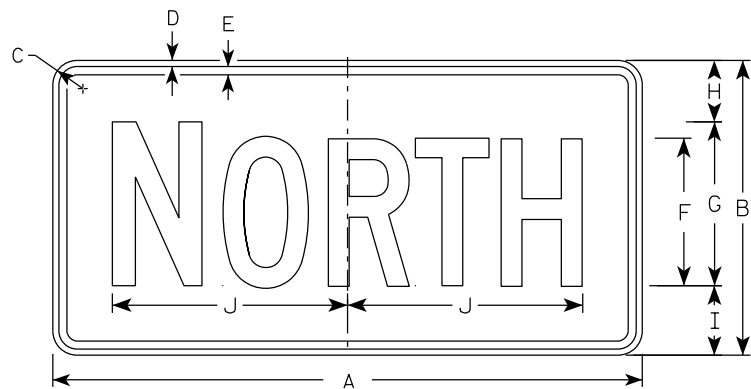
PROJECT NO:

HWY:

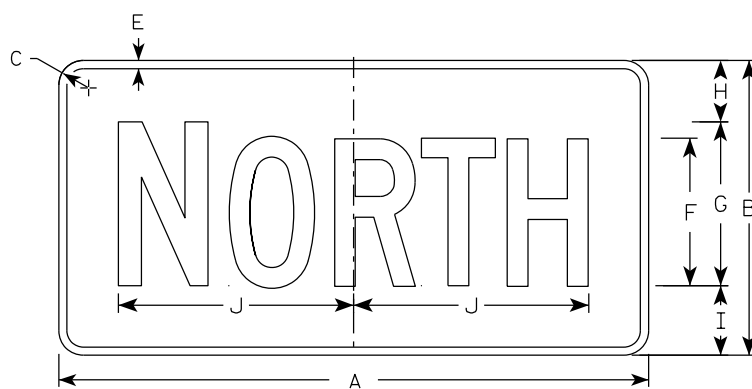
COUNTY:

SHEET NO: 150

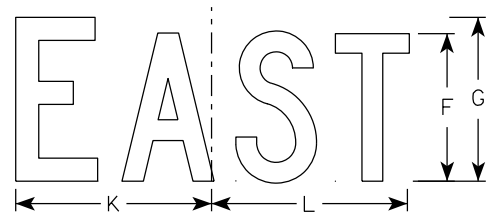
E



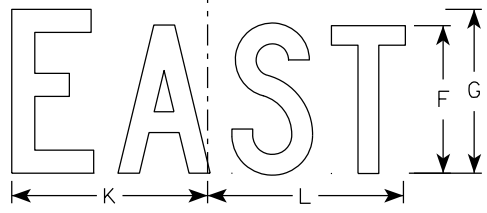
M3-1
MM3-1
MP3-1



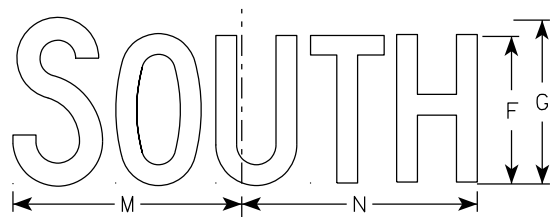
MB3-1
MK3-1
MN3-1



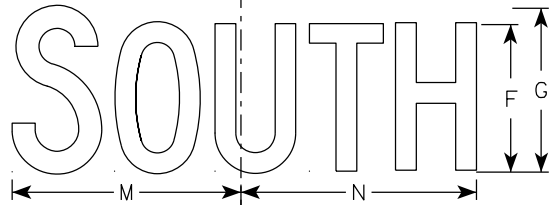
M3-2
MM3-2
MP3-2



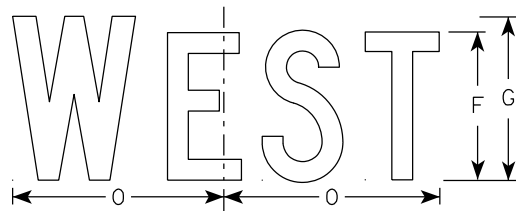
MB3-2
MK3-2
MN3-2



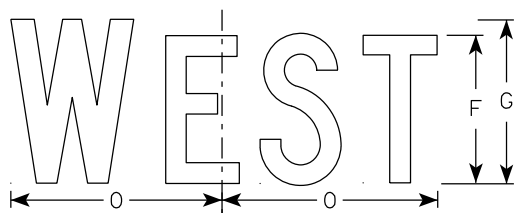
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

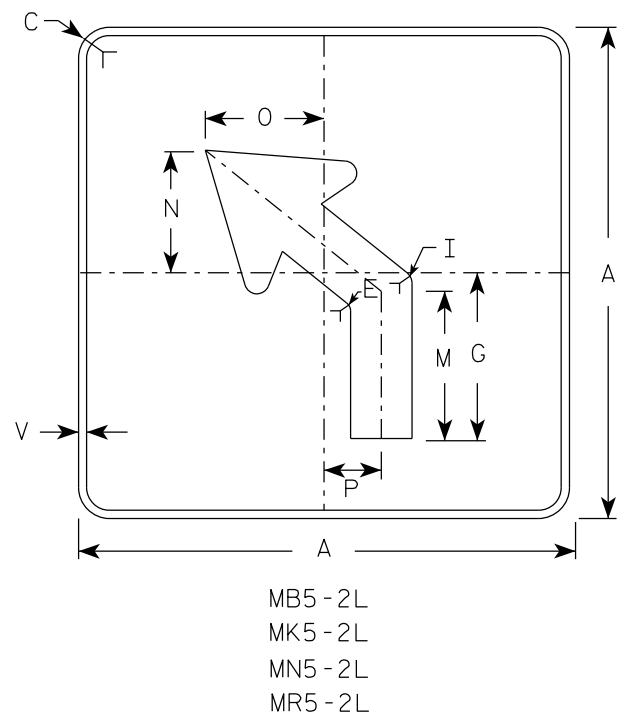
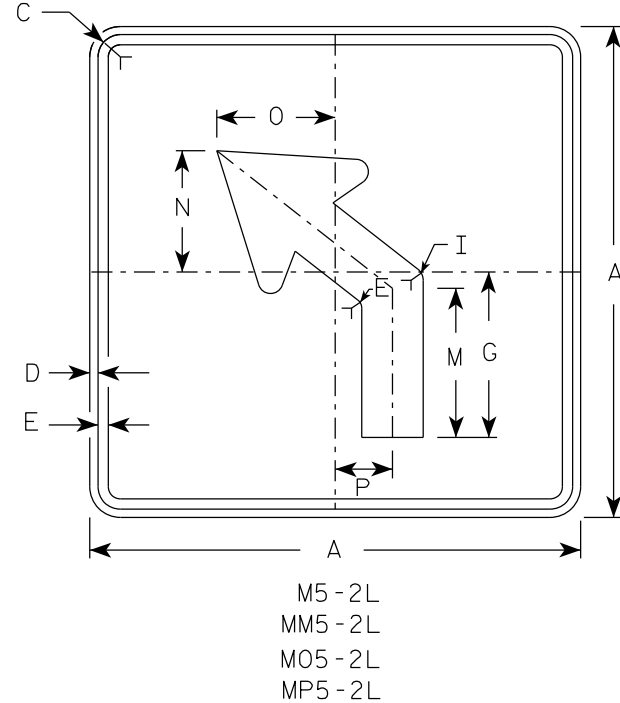
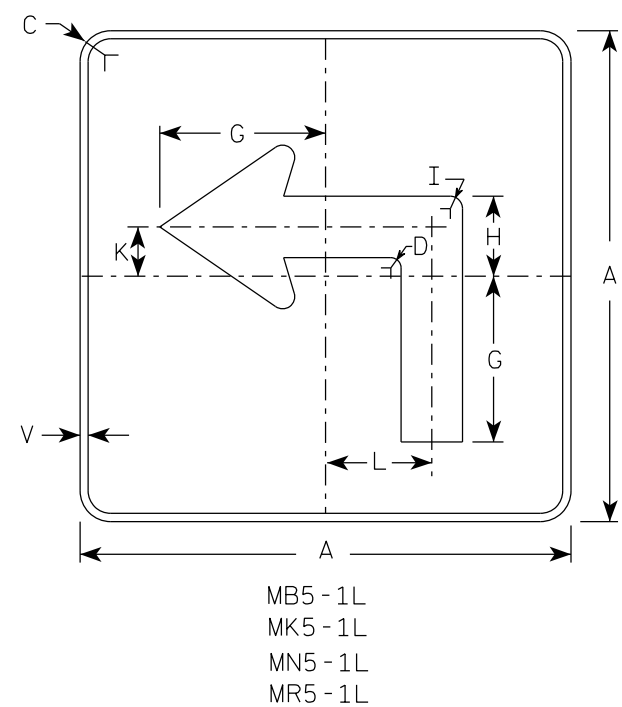
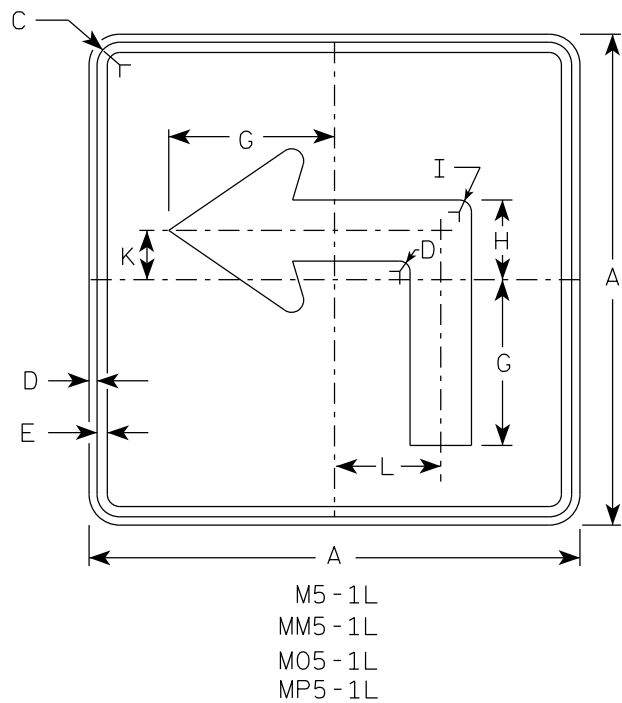
- All Signs Type II - Type H Reflective
- Color:
 - Background - See note 5
 - Message - See note 5
- Message Series - C
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M3-1 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
- Note the first letter of each direction is larger than the remainder of the message.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
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

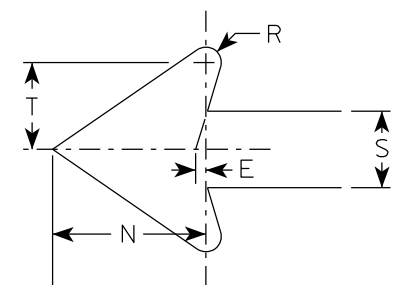
PROJECT NO:	HWY:	COUNTY:	SHEET NO: 151	E
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NOTES

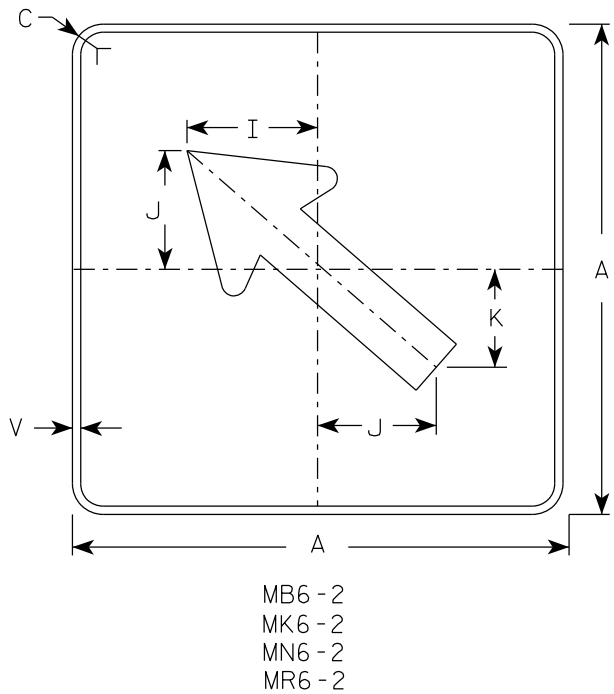
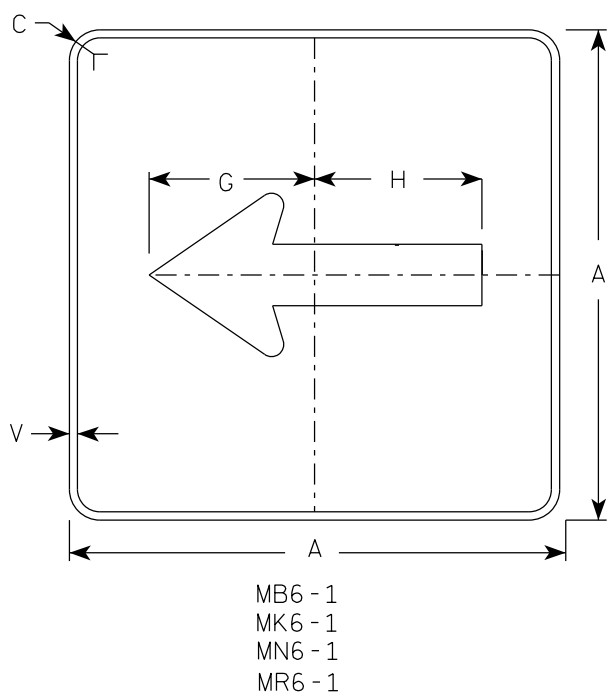
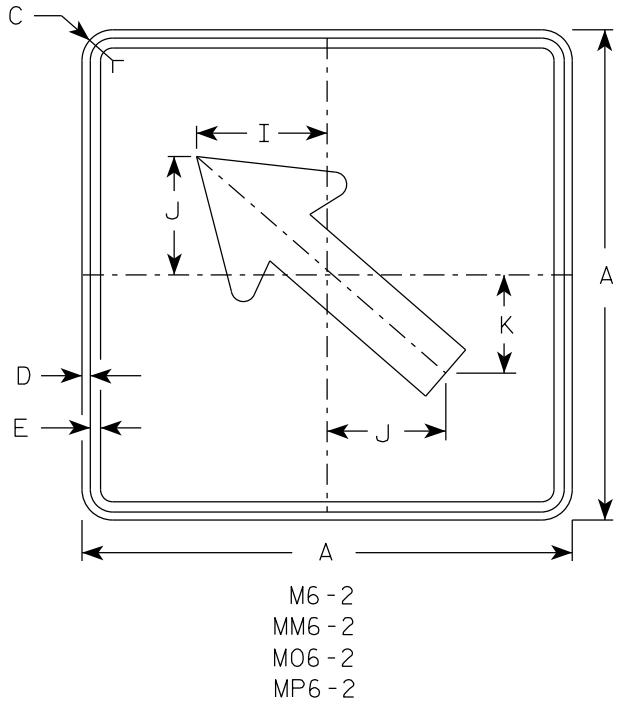
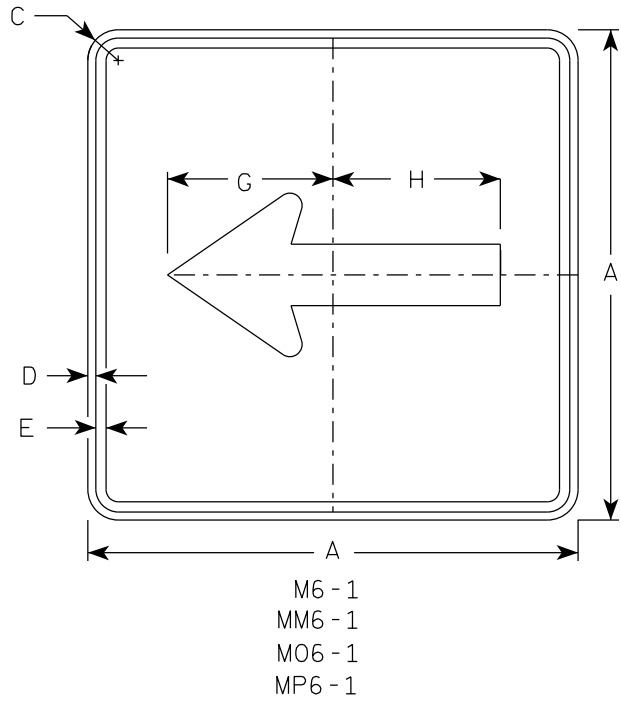
- Signs are Type II - Type H reflective except as shown
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- | | | |
|-----------|-------|---|
| 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 |
| M05-1 and | M05-2 | 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 |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL

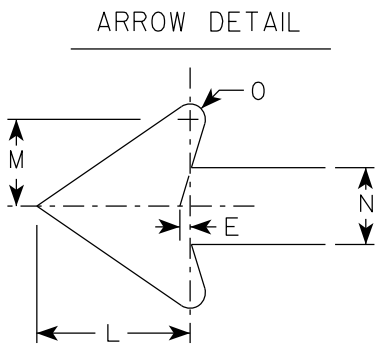


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	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

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 152	E
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- NOTES
- Signs are Type II - Type H Reflective except as Shown
 - Color:
Background - See note 4
Message - See note 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.
 - 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
M06-1 and M06-2 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



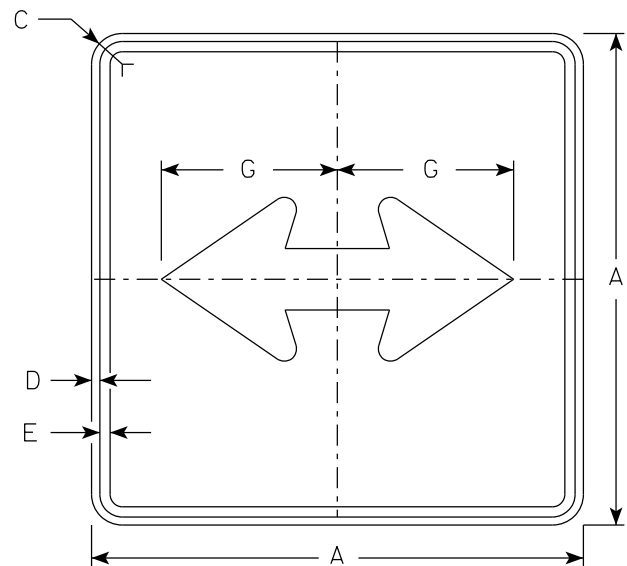
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	
1																												
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2						3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2						3.06
3	30		1 7/8	1/2	5/8		10 3/4	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

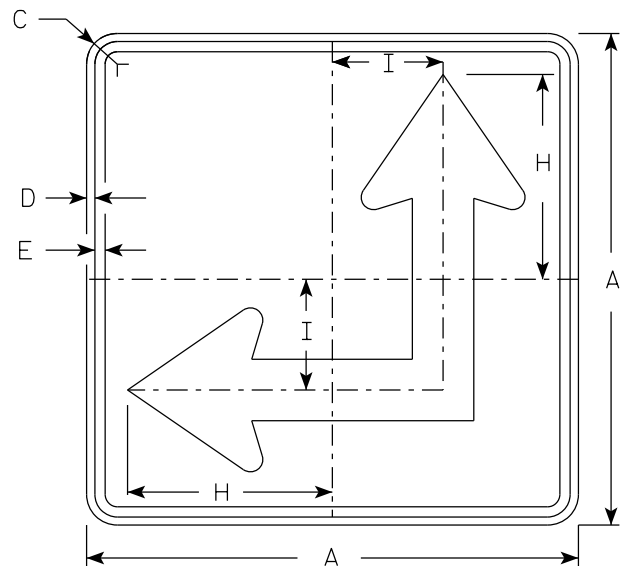
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

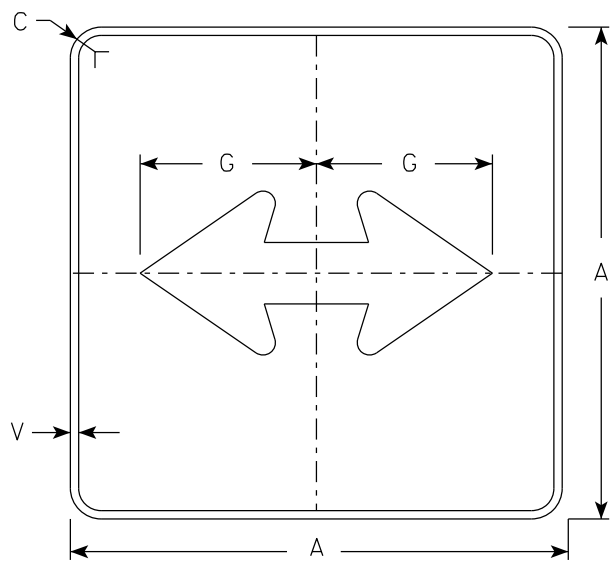
DATE 2/13/2023 PLATE NO. M6-1.16



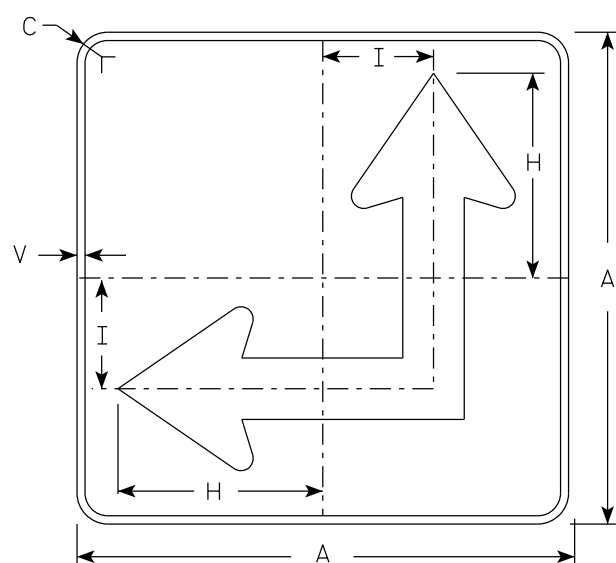
M6 - 4
MM6 - 4
M06 - 4
MP6 - 4



M6 - 6
MM6 - 6
M06 - 6
MP6 - 6



MB6 - 4
MK6 - 4
MN6 - 4
MR6 - 4

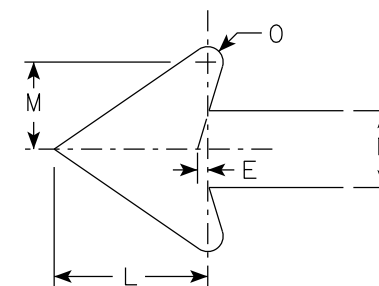


MB6 - 6
MK6 - 6
MN6 - 6
MR6 - 6

NOTES

- Signs are Type II - Type H Reflective except as Shown
- Color:
Background - See Note 4
Message - See Note 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.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
M06-4 and M06-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and 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 1/2	8 3/4	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	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

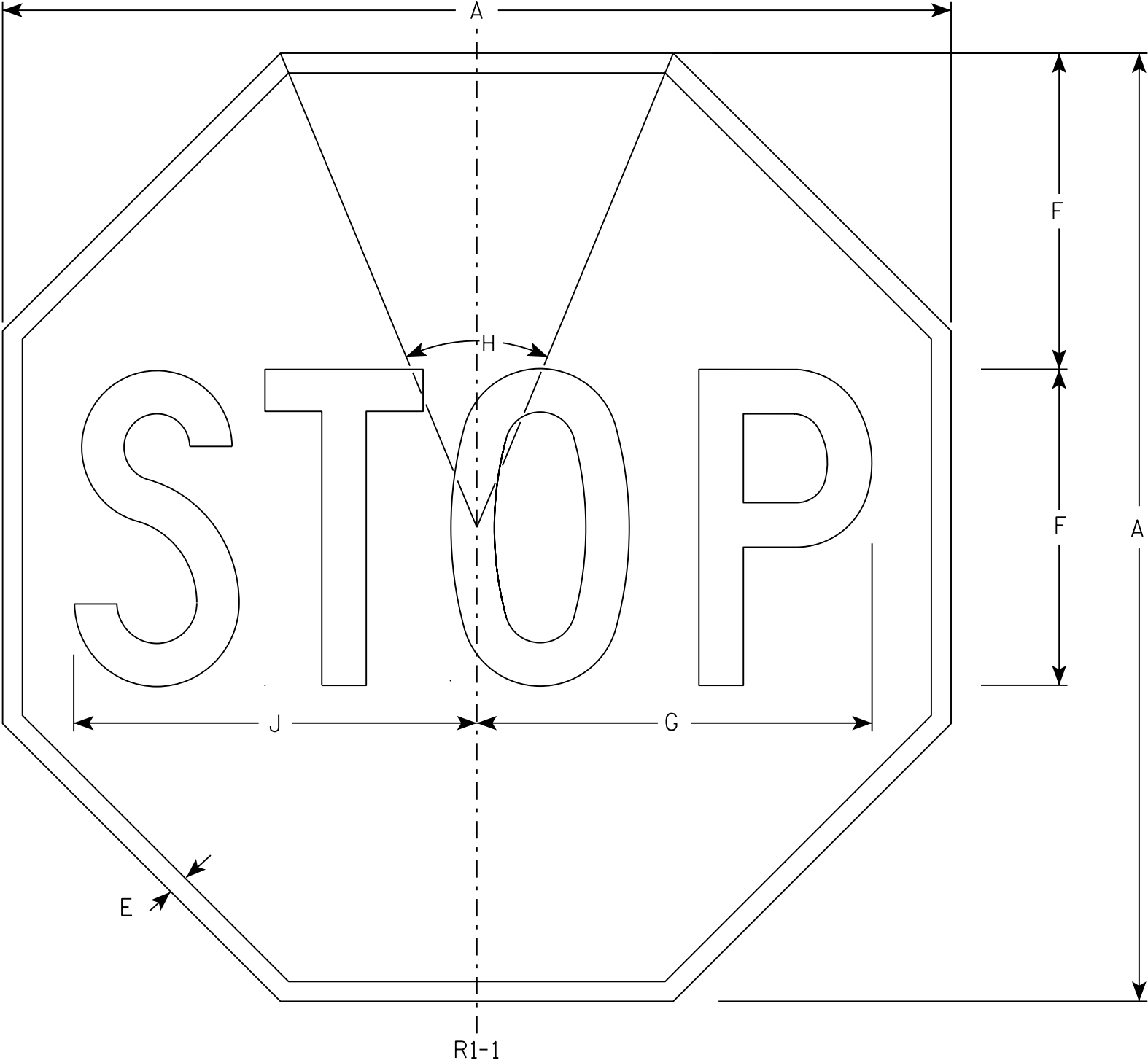
STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-4.11

7



NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Red
Message - White
- 3. Message Series - C

7

R1-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

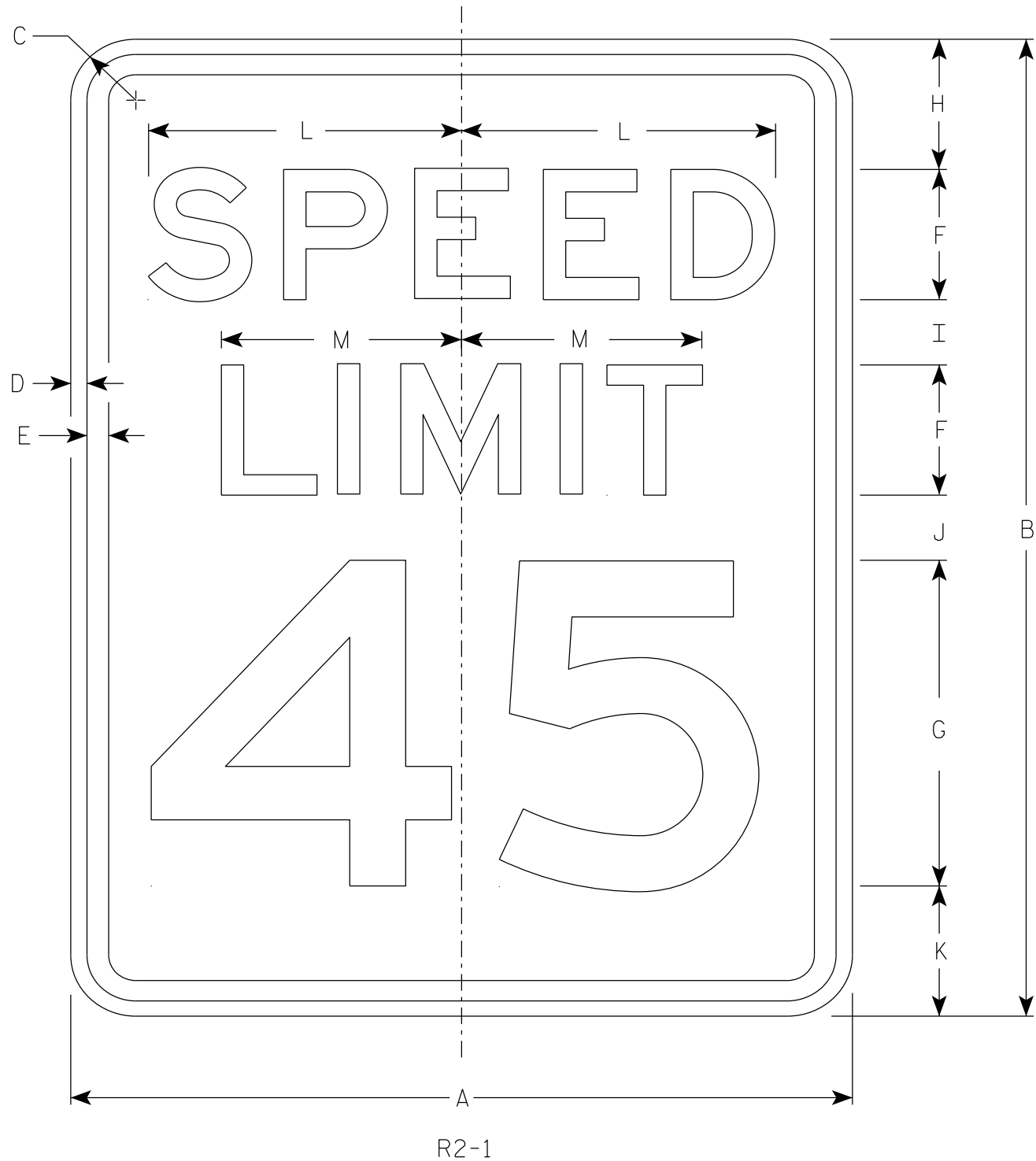
STANDARD SIGN
R1 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

7



NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - White
Message - Black
- 3. Message Series - E
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN

R2 - 1

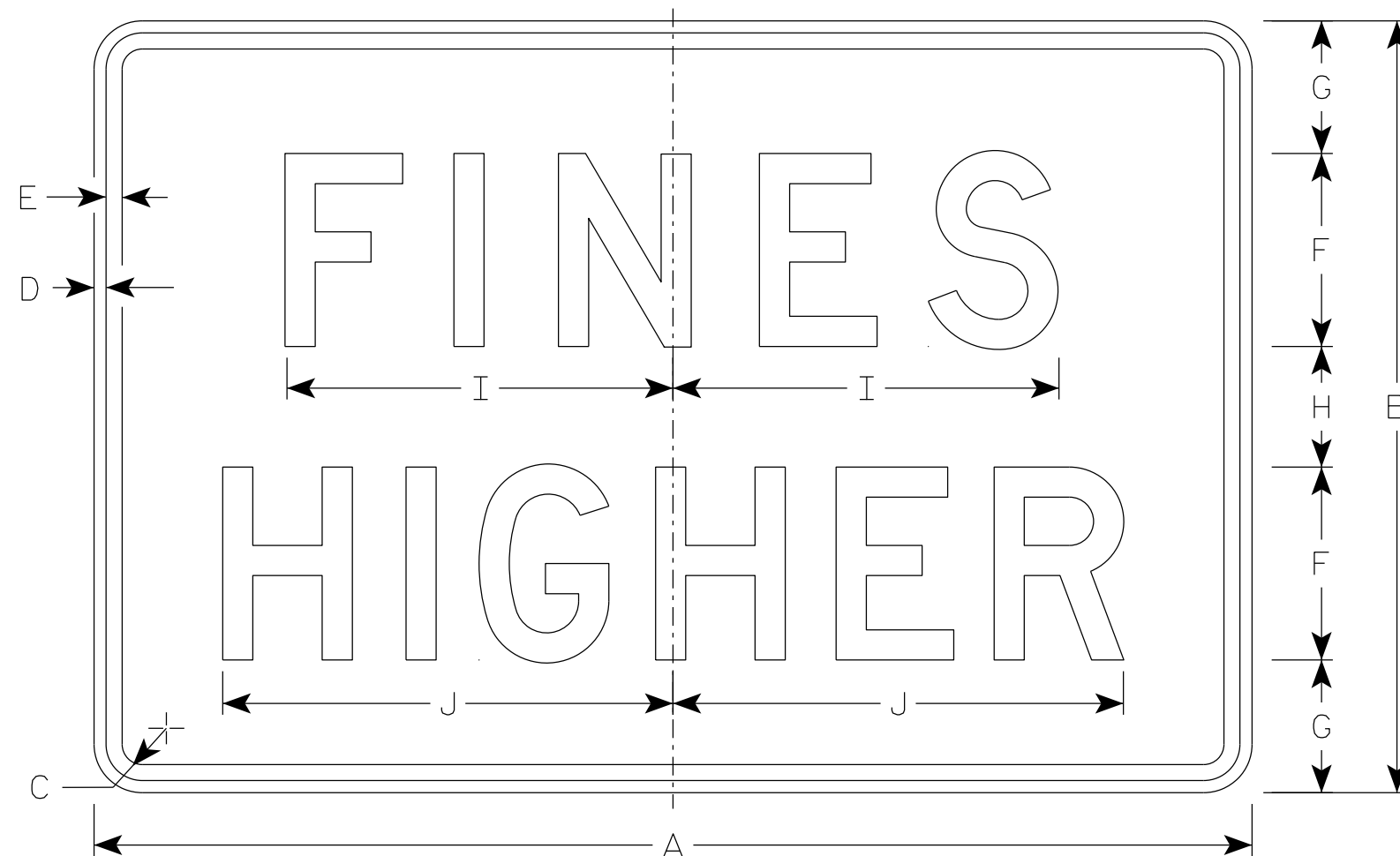
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

NOTES

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



R2-6P

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	18	1 1/2	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/2	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/2	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/2	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 7/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

WISCONSIN DEPT OF TRANSPORTATION

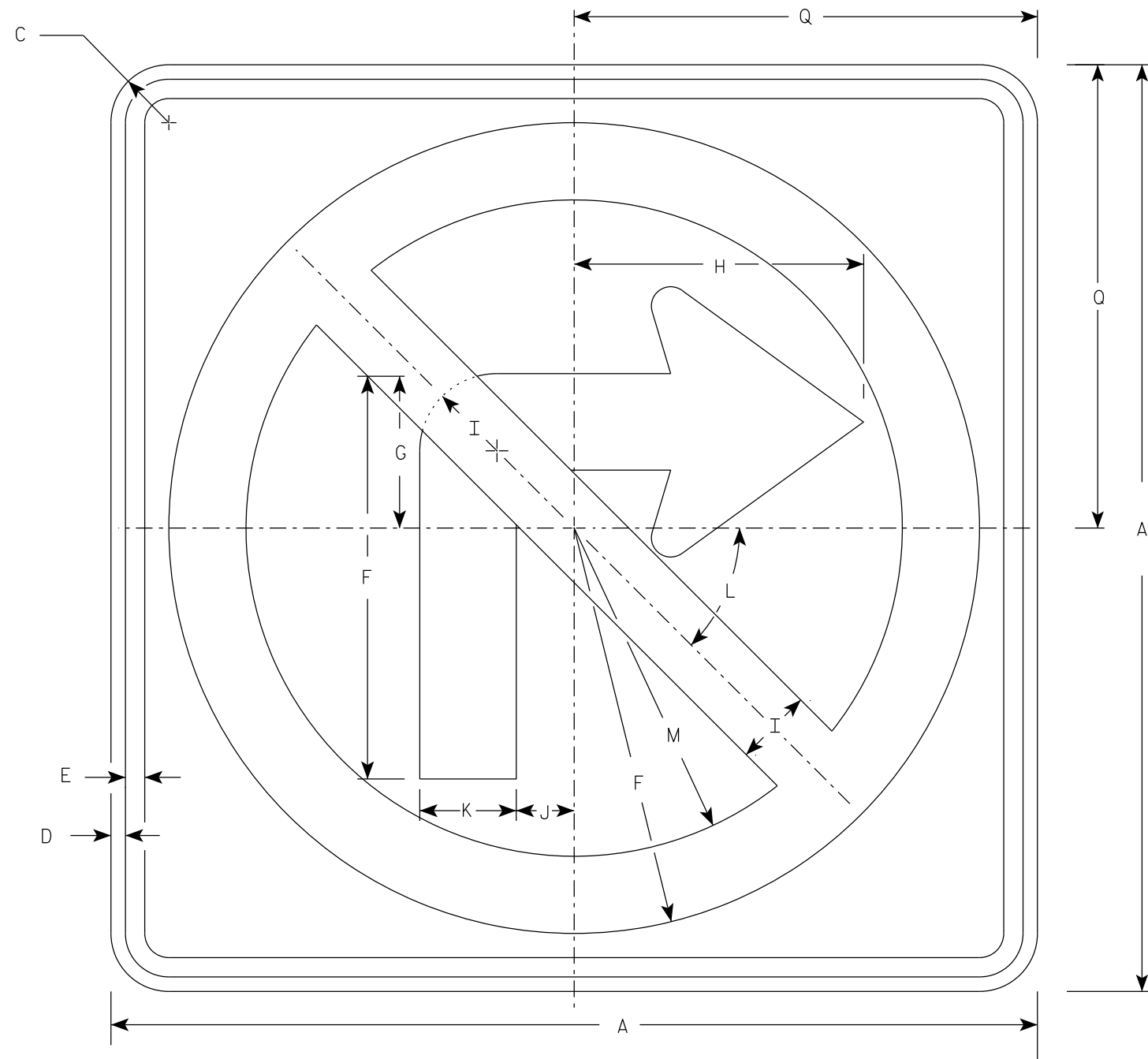
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-6P.3

PROJECT NO: HWY: COUNTY: SHEET NO: 157 **E**

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R26P.dgn PLOT DATE : 1-FEB 2023 8:48 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADDs SHEET 42

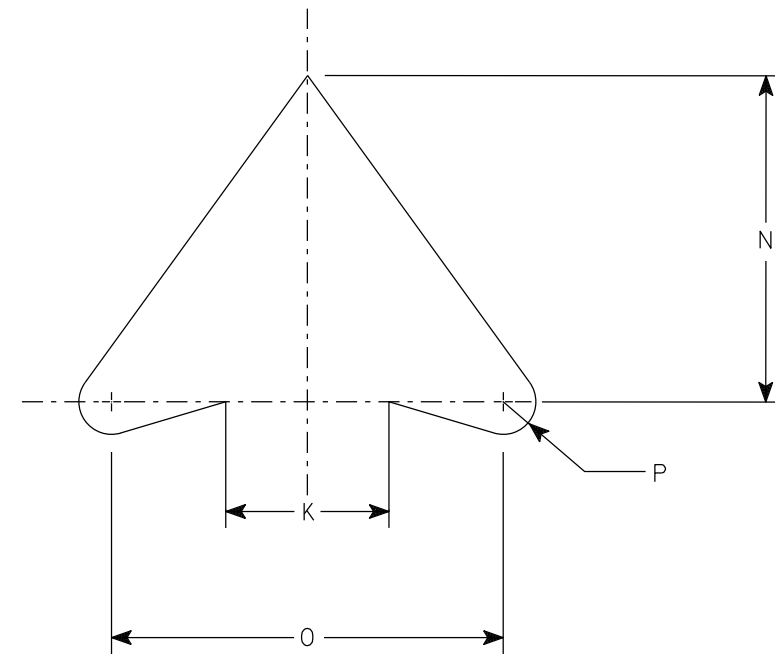
7



R3-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - See note 3
3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



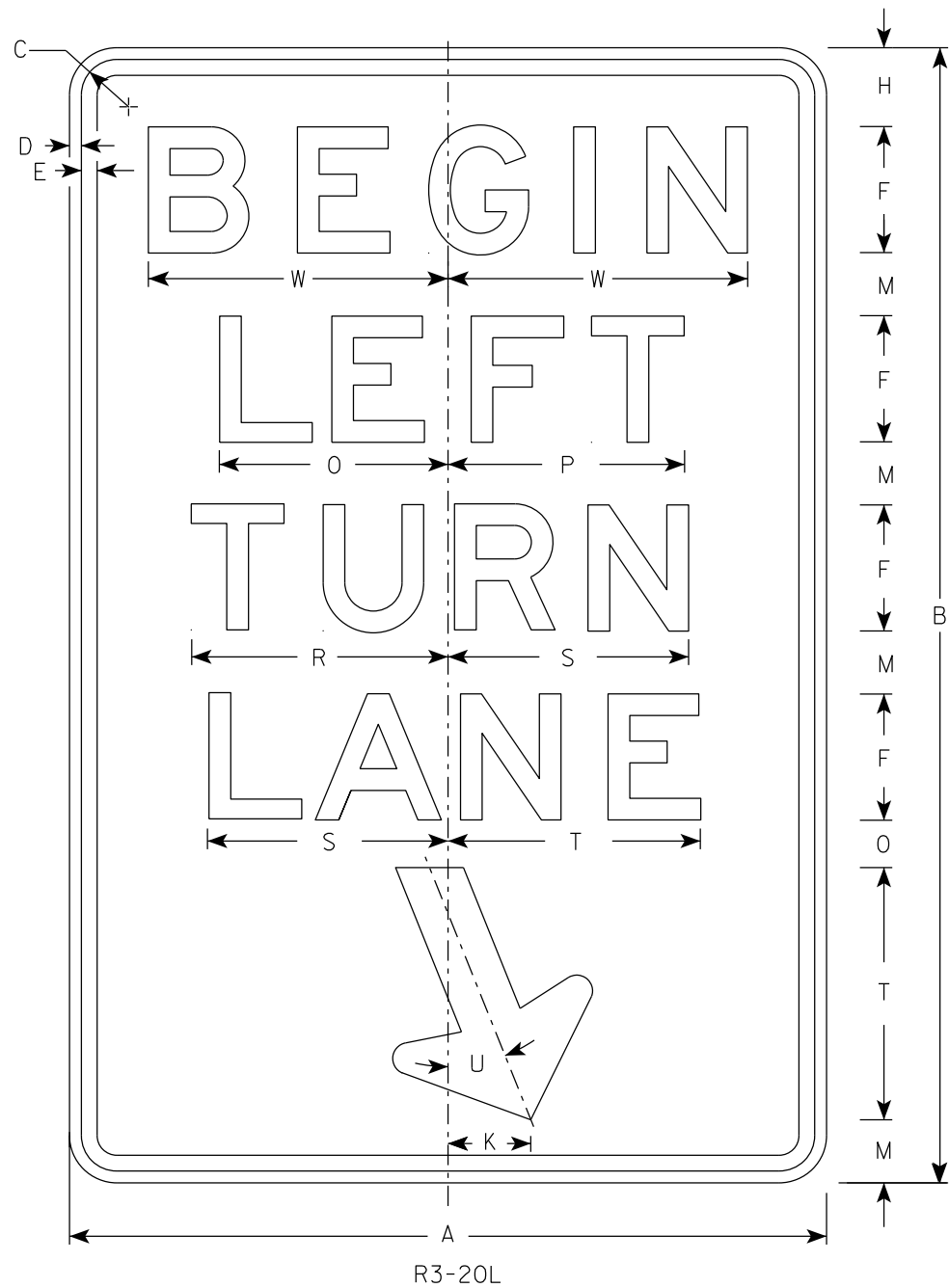
ARROW DETAIL

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	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 158												E
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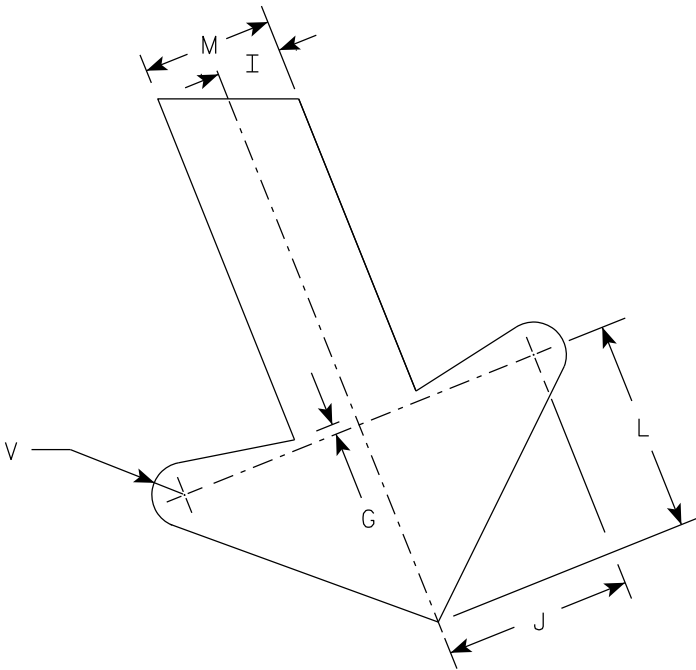
7

7



NOTES

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



ARROW DETAIL

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 7/8	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

PROJECT NO:

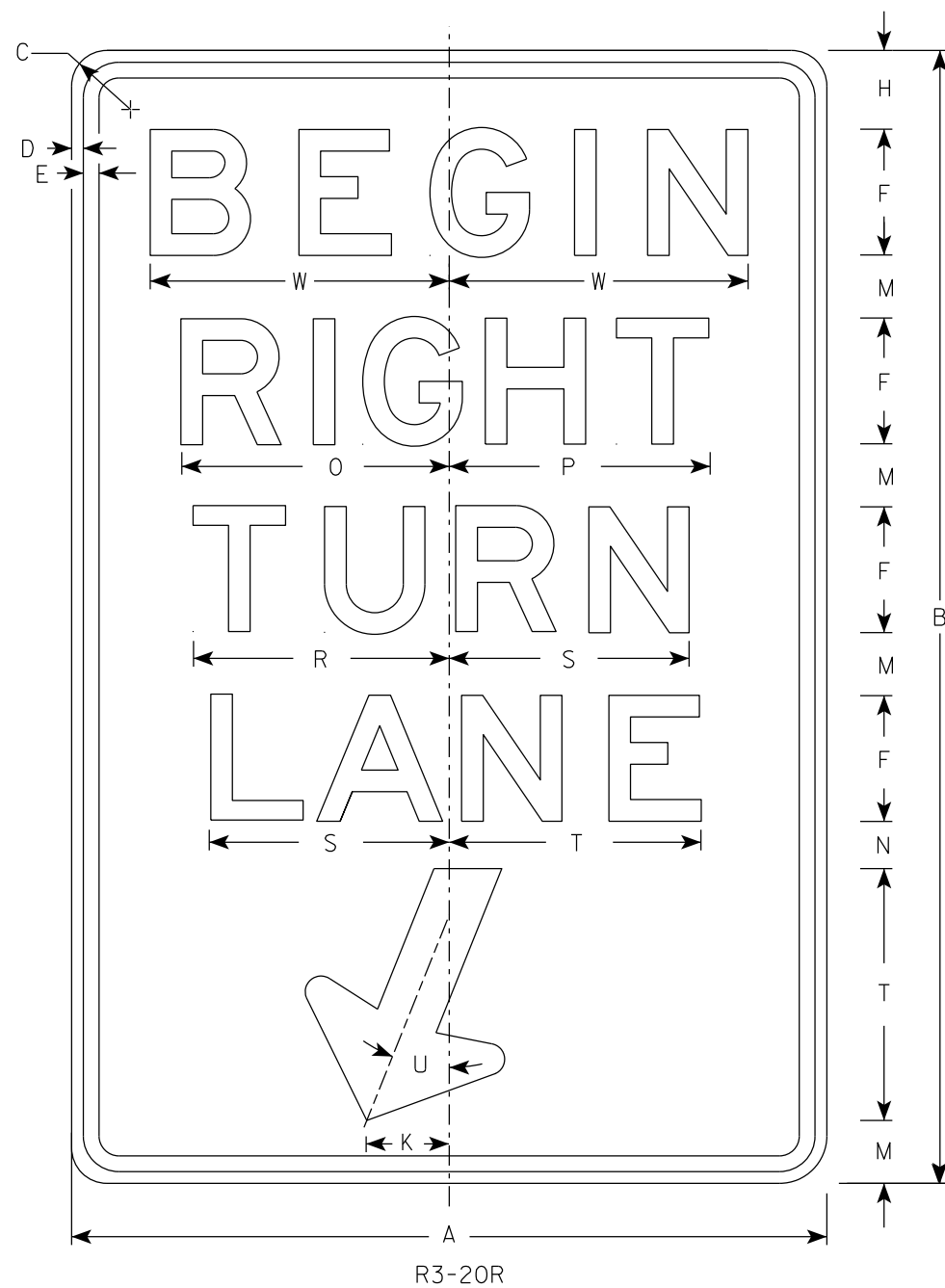
HWY:

COUNTY:

SHEET NO: 159

E

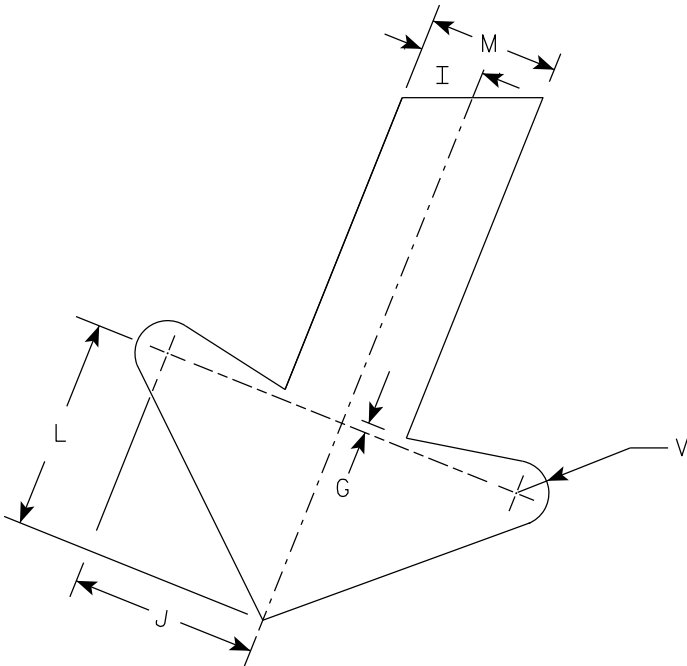
7



R3-20R

NOTES

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



ARROW DETAIL

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 7/8	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

PROJECT NO:

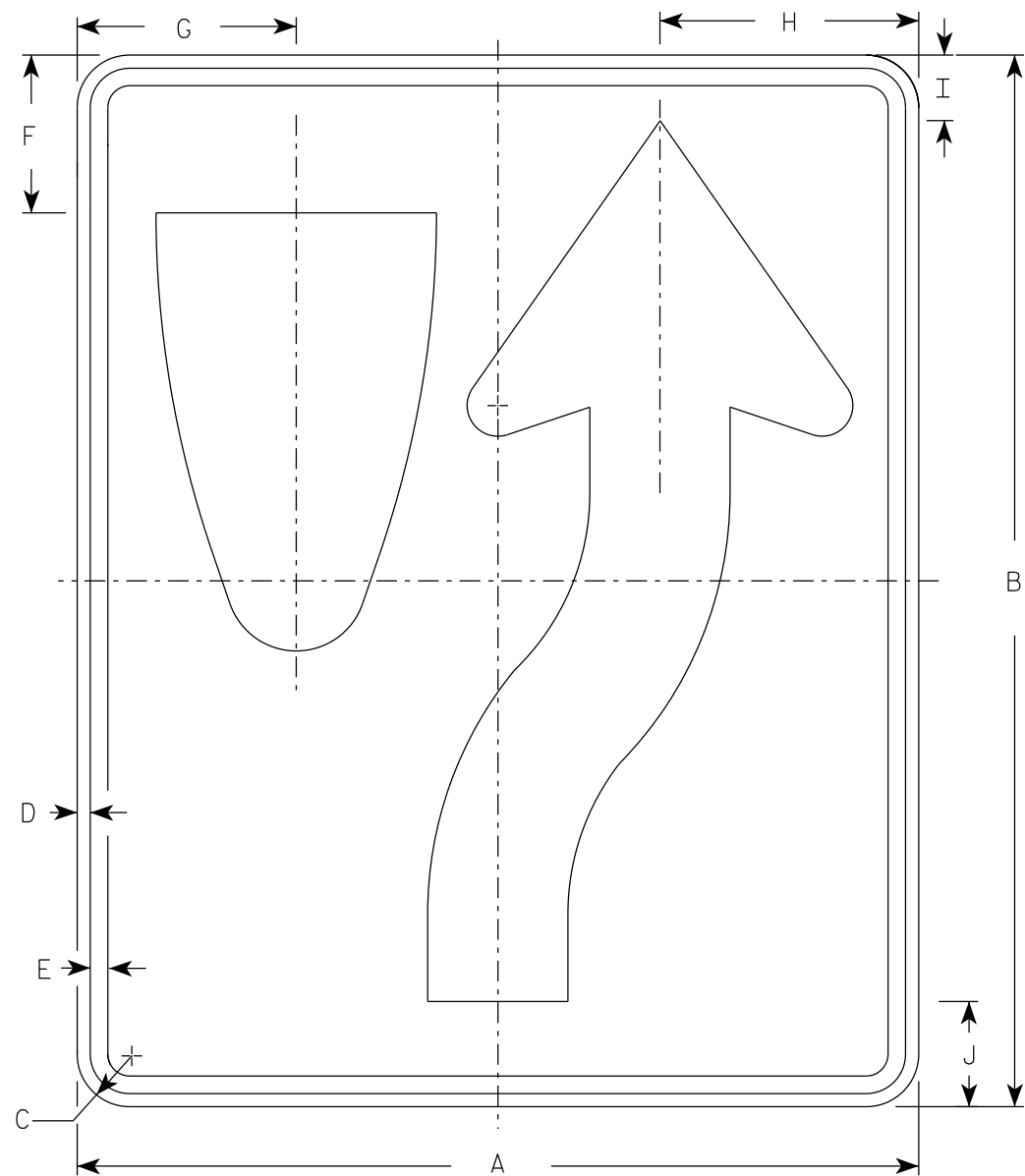
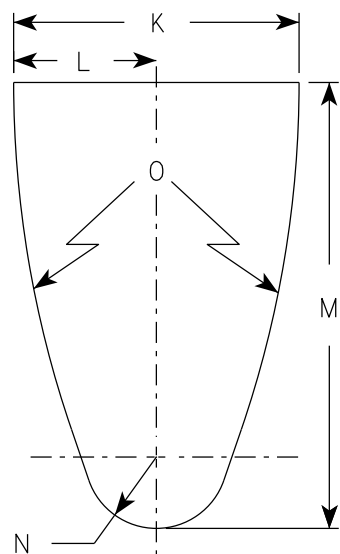
HWY:

COUNTY:

SHEET NO: 160

E

DIVIDER DETAIL

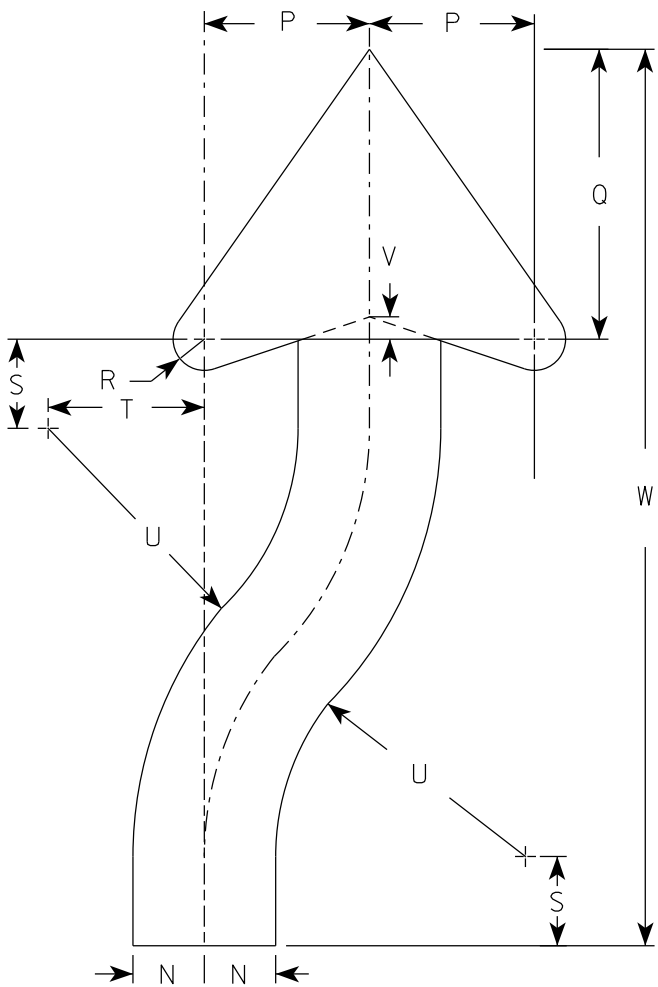


R4-7

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - White
Message - Black
- 3. R4-8 is the same as R4-7 except Legend is reversed.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	3	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

PROJECT NO:

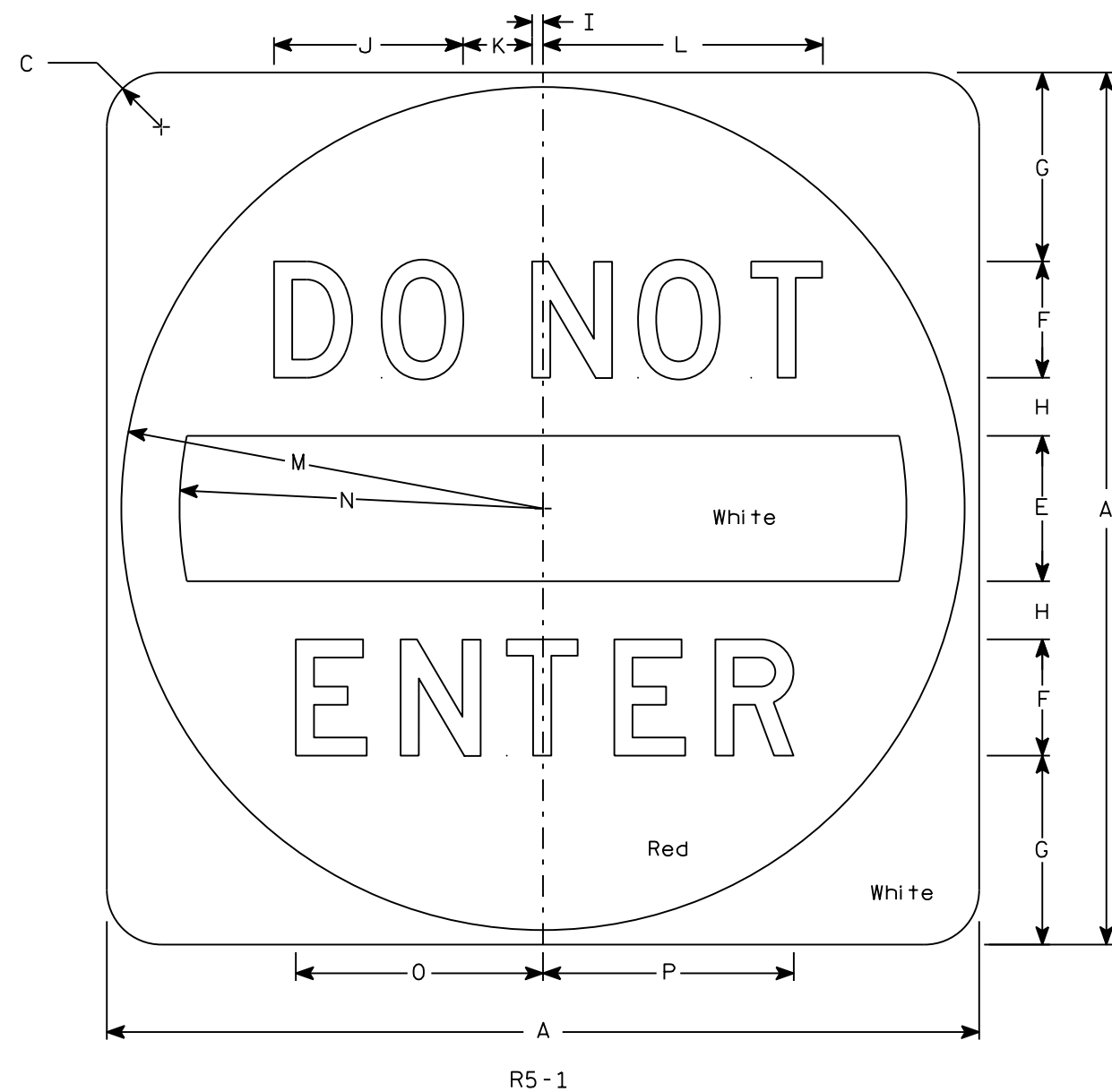
HWY:

COUNTY:

SHEET NO: 161

E

7



NOTES

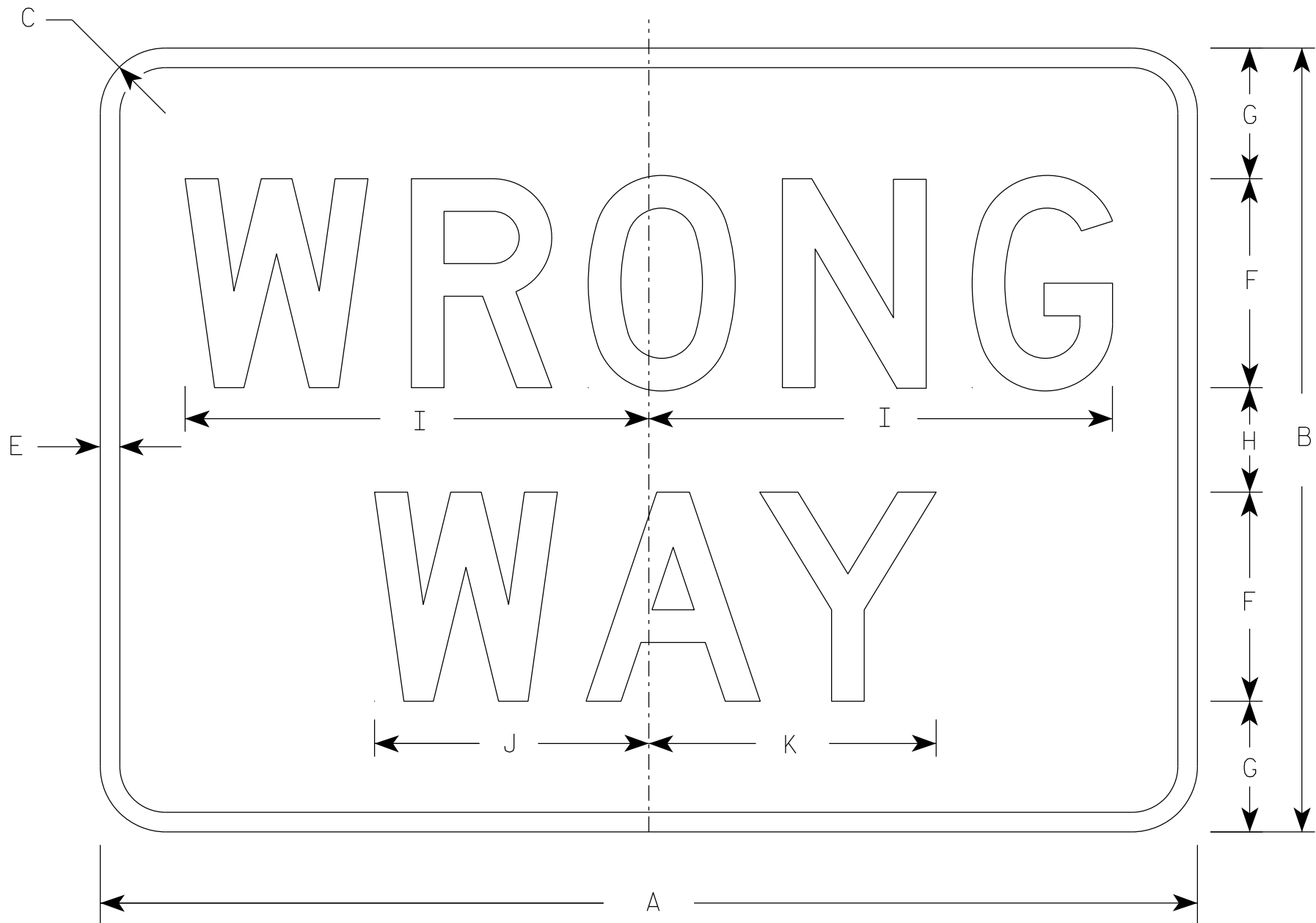
1. Sign is Type II - Type H Reflective
2. Color:
Background - See detail
Message - White
3. Message Series - D

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7⁄8		5	4	6 1⁄2	2	3⁄8	6 1⁄2	2 3⁄8	9 5⁄8	14 1⁄2	12 1⁄2	8 1⁄2	8 5⁄8											6.25
2M	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
3	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
4	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
5	48		3		8	6	11	3	5⁄8	9 3⁄4	3 5⁄8	14 1⁄2	23 1⁄2	20	12 3⁄4	12 7⁄8											16.0

STANDARD SIGN R5-1	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/15/18	PLATE NO. R5-1.16

7



R5-1A

NOTES

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

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	1 1/2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75

PROJECT NO:

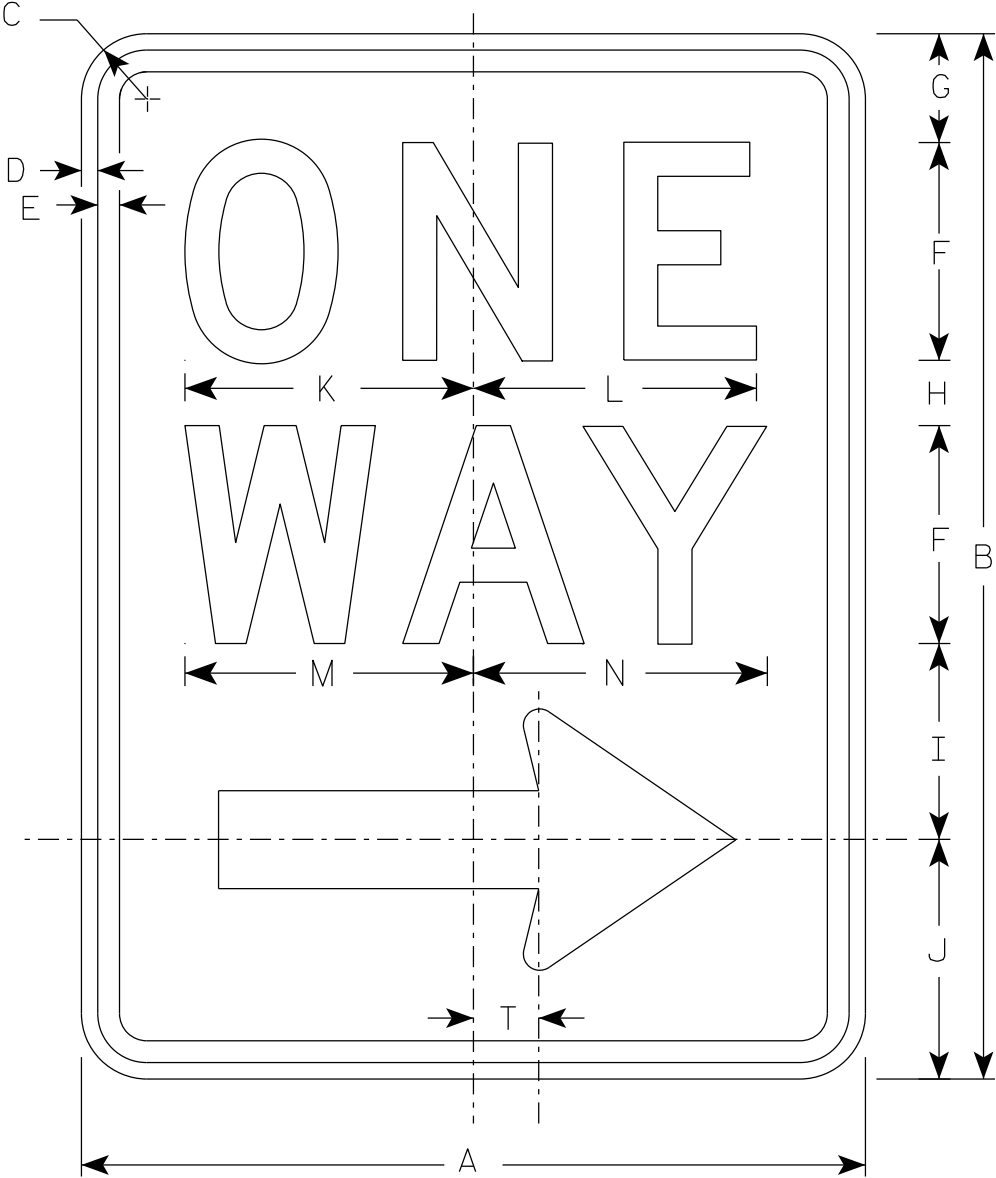
HWY:

COUNTY:

SHEET NO: 163

E

7

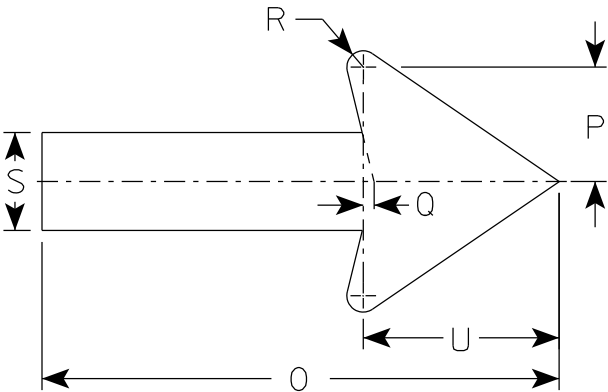


R6 - 2R

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - White
 - Message - Black
- 3. Message Series - D
- 4. R6-2L same as R6-2R except arrow points to the left.

Arrow Detail



7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/2	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	36	1 1/2	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 7/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

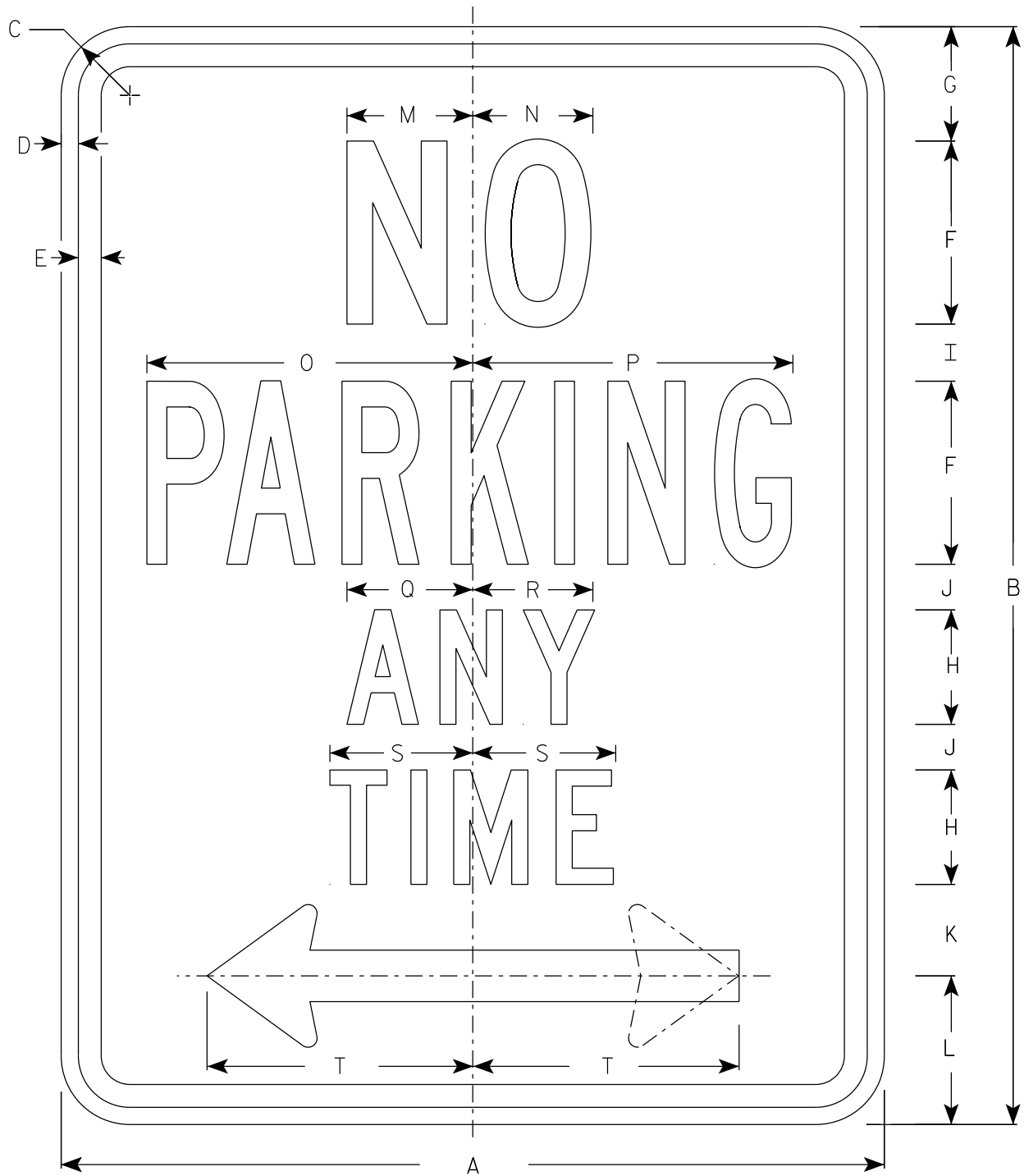
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 164

E

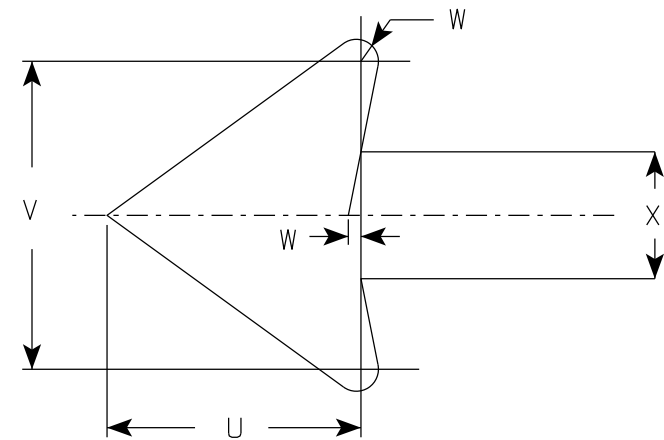


R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Red
3. Message Series - See Note 4
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
R7-1L (left arrow)
R7-1R (right arrow)

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/2	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/2	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/2	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/2	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

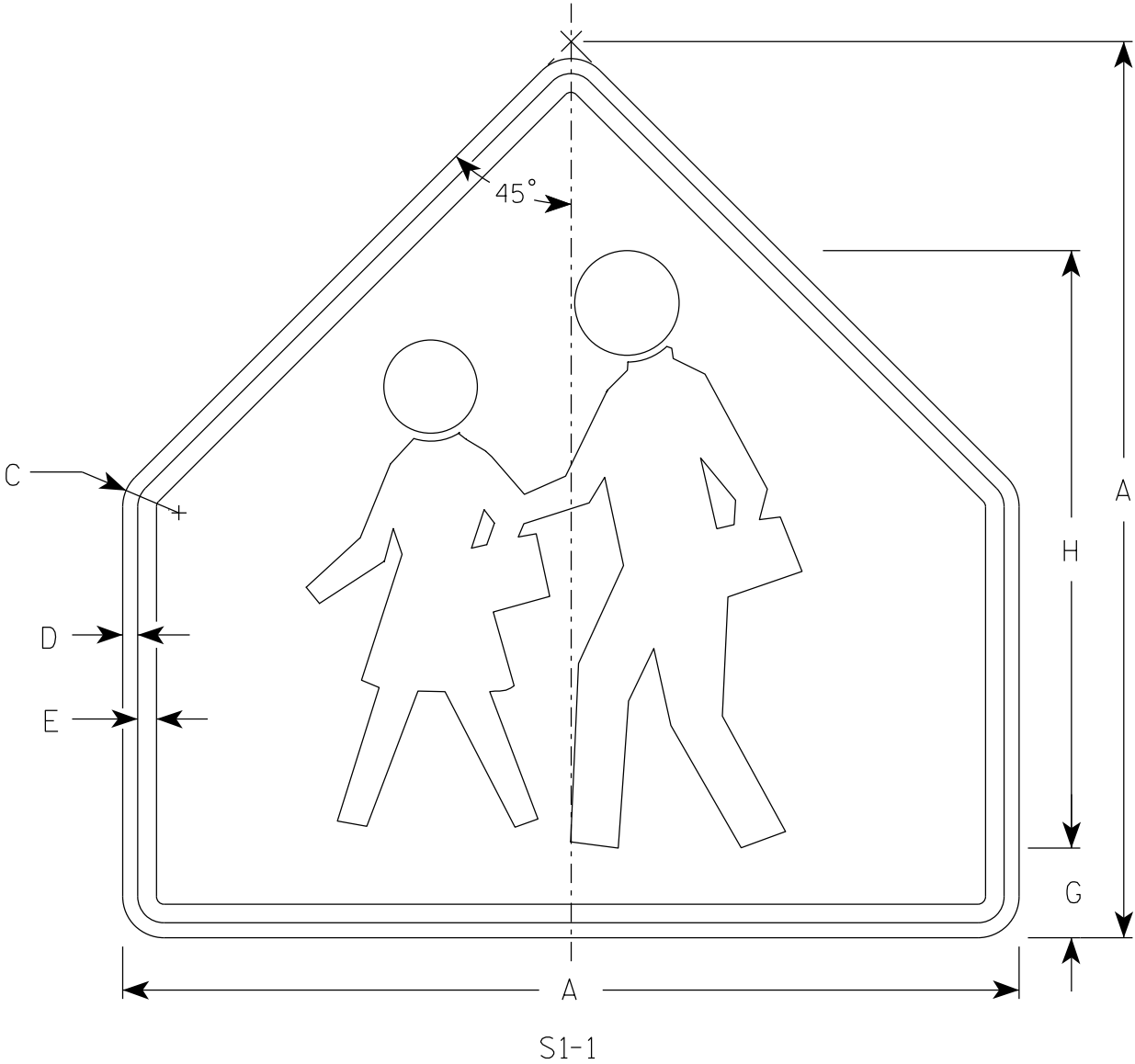
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 10/26/23 PLATE NO. R7-1.11

PROJECT NO: HWY: COUNTY: SHEET NO: 165 E

7



NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
 - Background - Yellow-Green
 - Message - Black

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3⁄8	1⁄2	5⁄8		3	20																			4.69
2S	36		1 5⁄8	5⁄8	3⁄4		3 1⁄2	24																			6.75
2M	36		1 5⁄8	5⁄8	3⁄4		3 1⁄2	24																			6.75
3	36		1 5⁄8	5⁄8	3⁄4		3 1⁄2	24																			6.75
4	48		1 7⁄8	3⁄4	1		4 3⁄4	32																			12
5																											

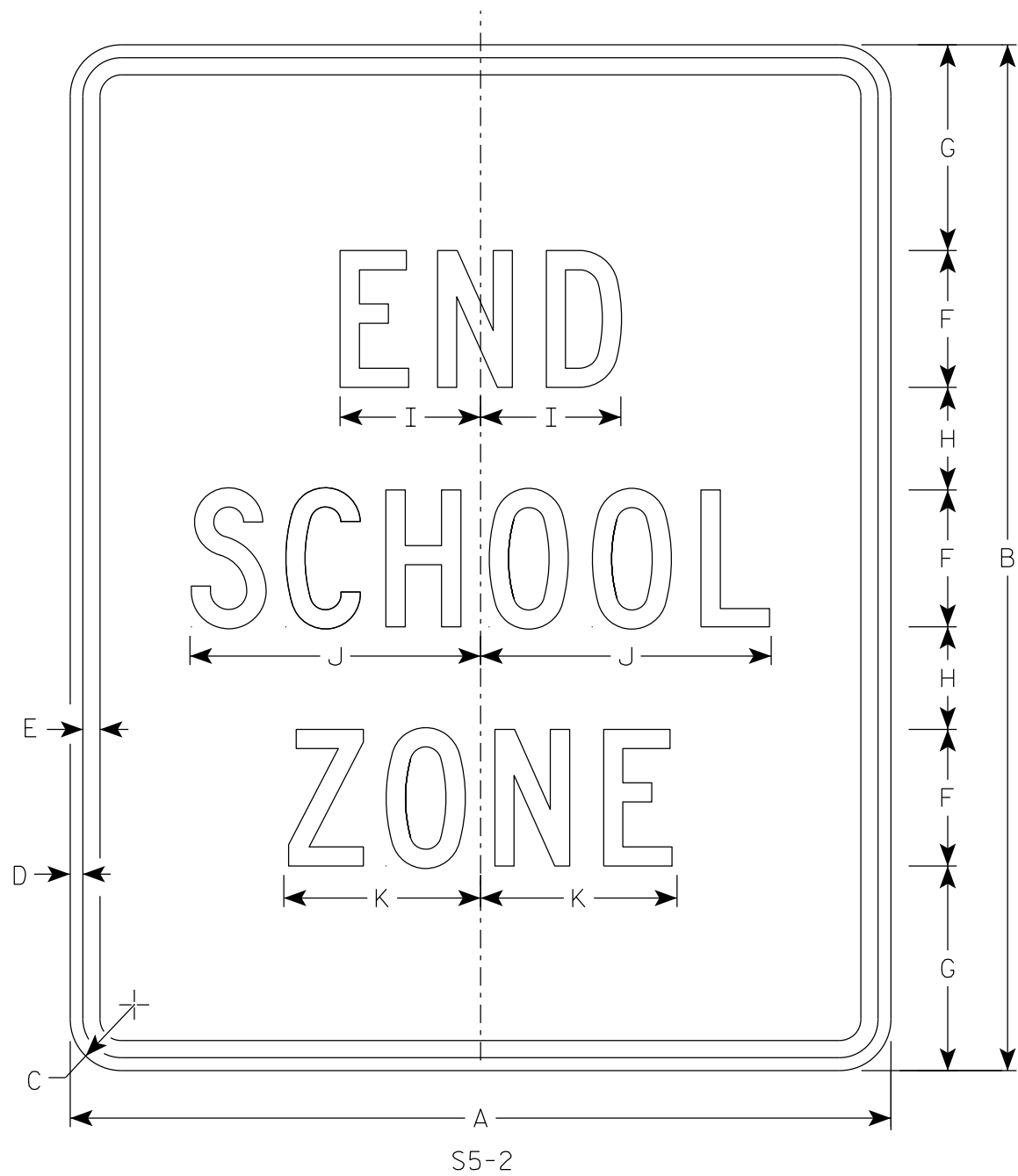
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/16/2023 PLATE NO. S1-1.9

7



NOTES

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

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/2	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
2M	24	30	1 1/2	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 7/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

STANDARD SIGN

S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

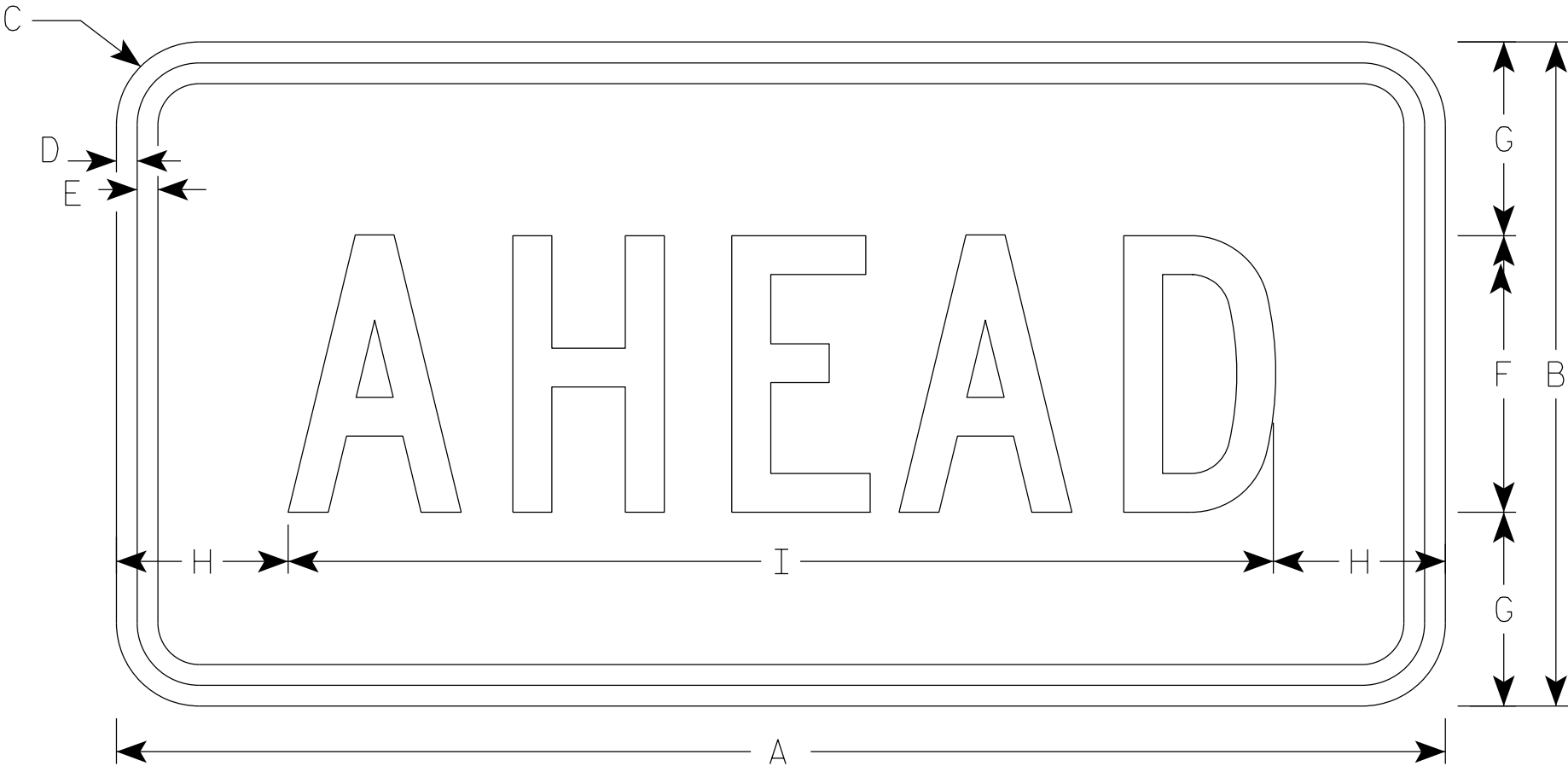
DATE 2/23/2023 PLATE NO. S5-2.3

7

7

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
 - Background - Yellow-Green
 - Message - Black
- 3. Message Series - C



S16-9P

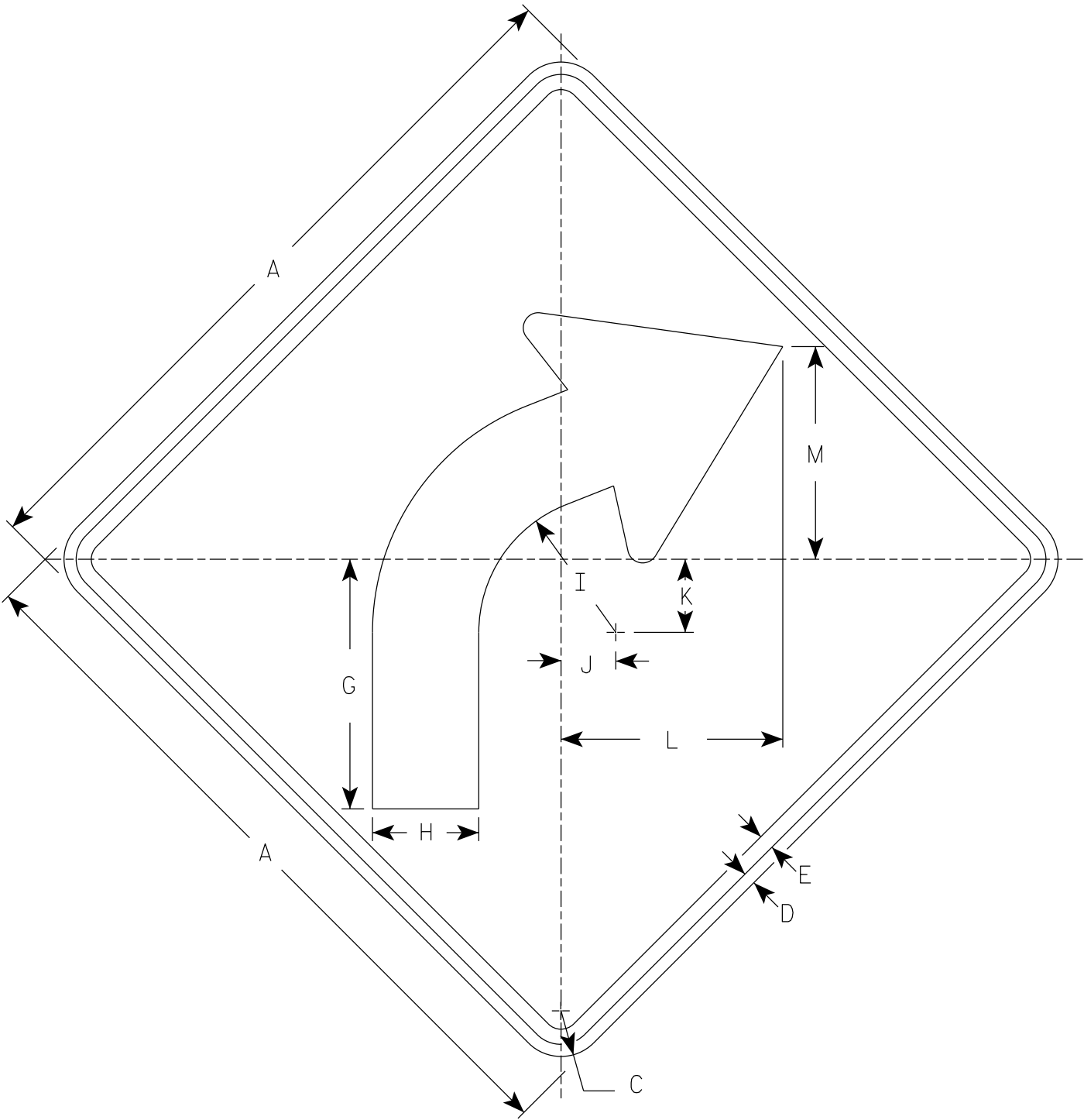
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/2	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/2	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/2	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/2	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

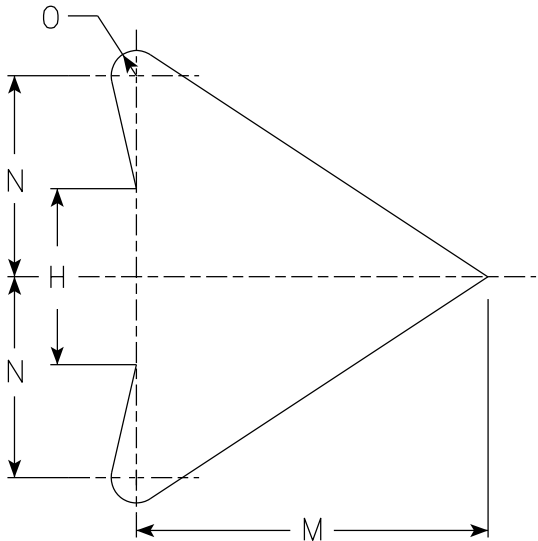
DATE 2/23/2023 PLATE NO. S16-9P.2



W1-2R

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

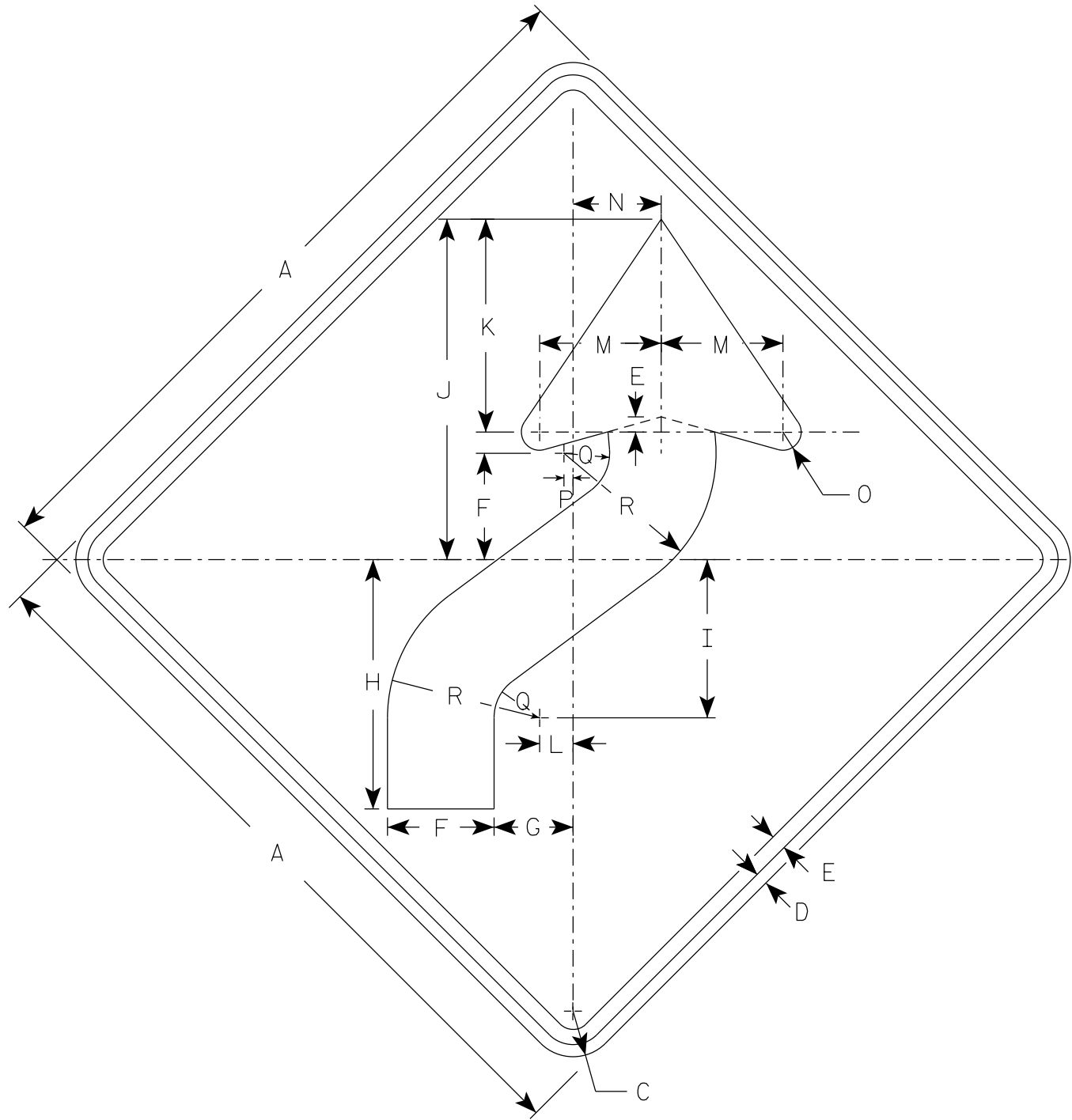
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 7/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		3	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/23/2023 PLATE NO. W1-2.11



W1-4R

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 7/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

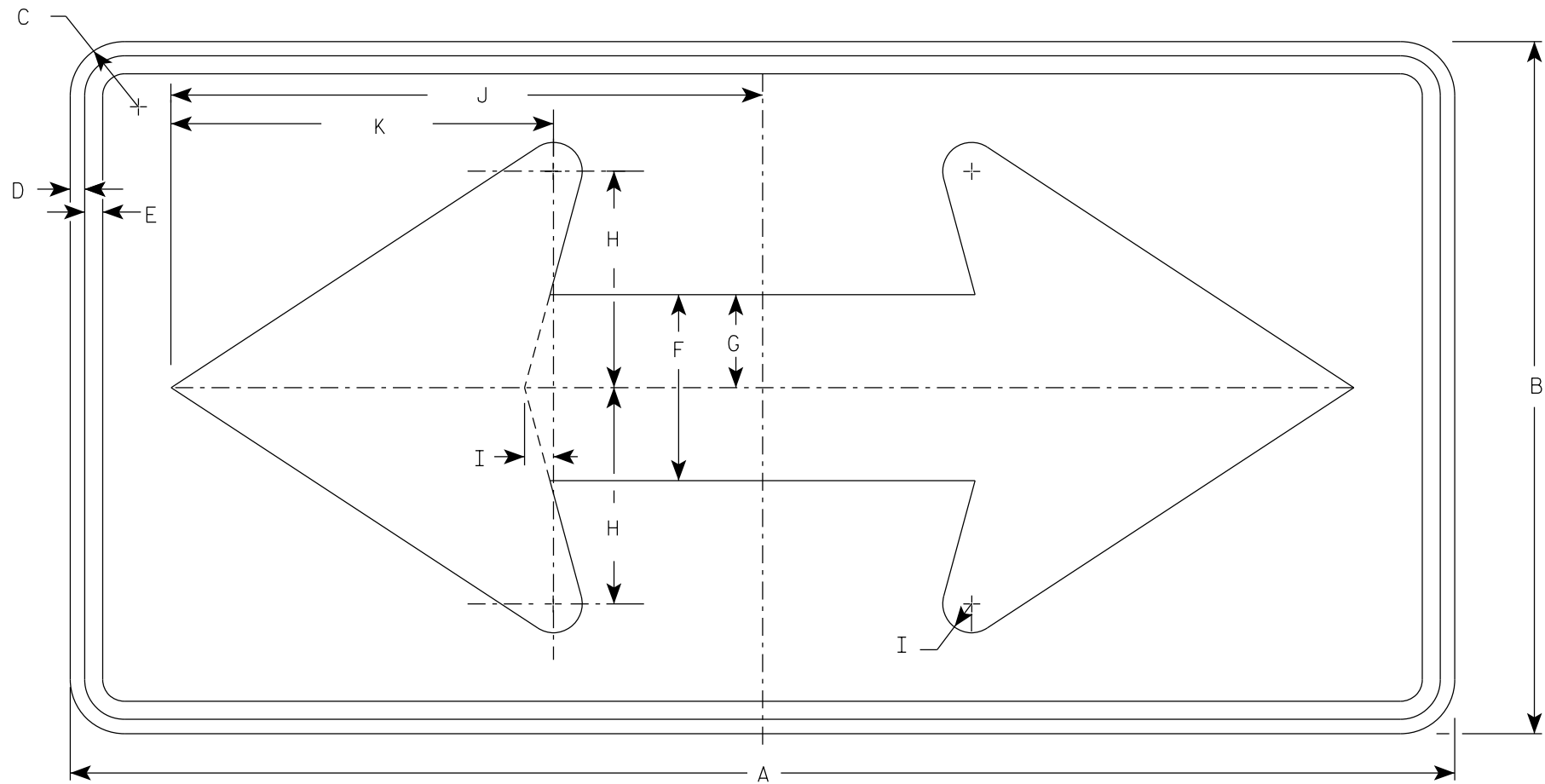
STANDARD SIGN
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/23/2023 PLATE NO. W1-4.12

7



W1-7

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	3	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

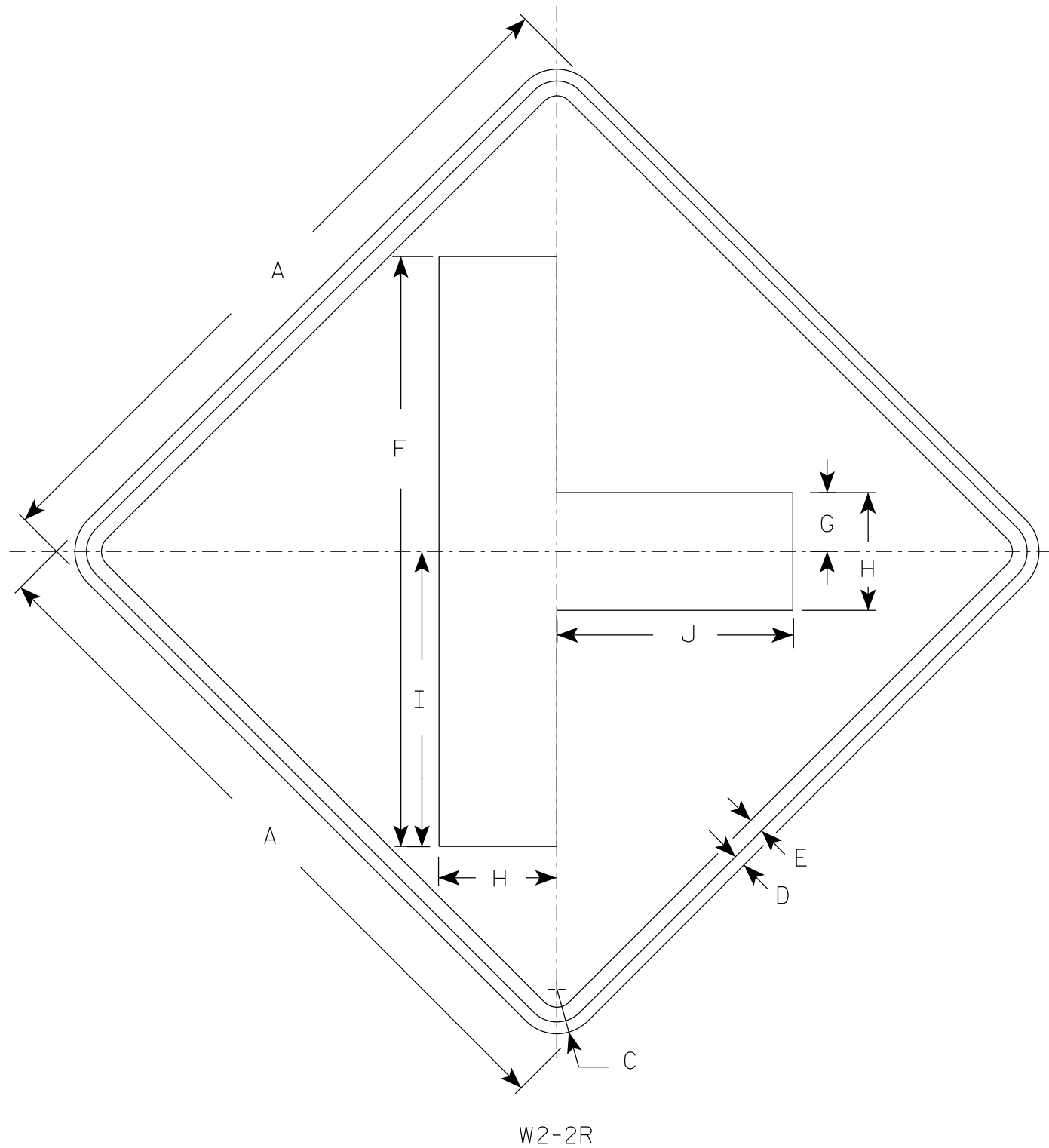
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/10/2023 PLATE NO. W1-7.8

7



NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. W2-2L same as W2-2R but is rotated 180° when mounted.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	20	2	4	10	8																	4.0
2S	30		1 7/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 7/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		2 1/4	5/8	3/4	30	3	6	15	12																	9.0
4	48		3	3/4	1	40	4	8	20	16																	16.0
5																											

PROJECT NO:

HWY:

COUNTY:

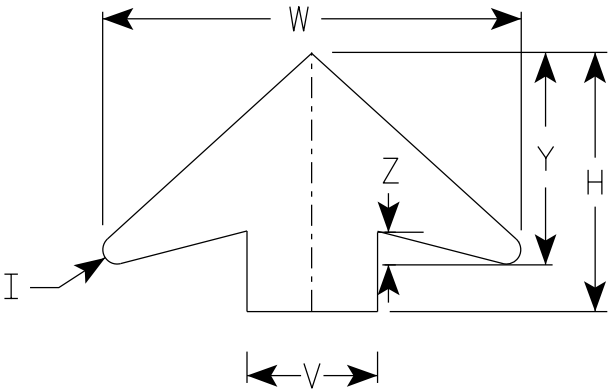
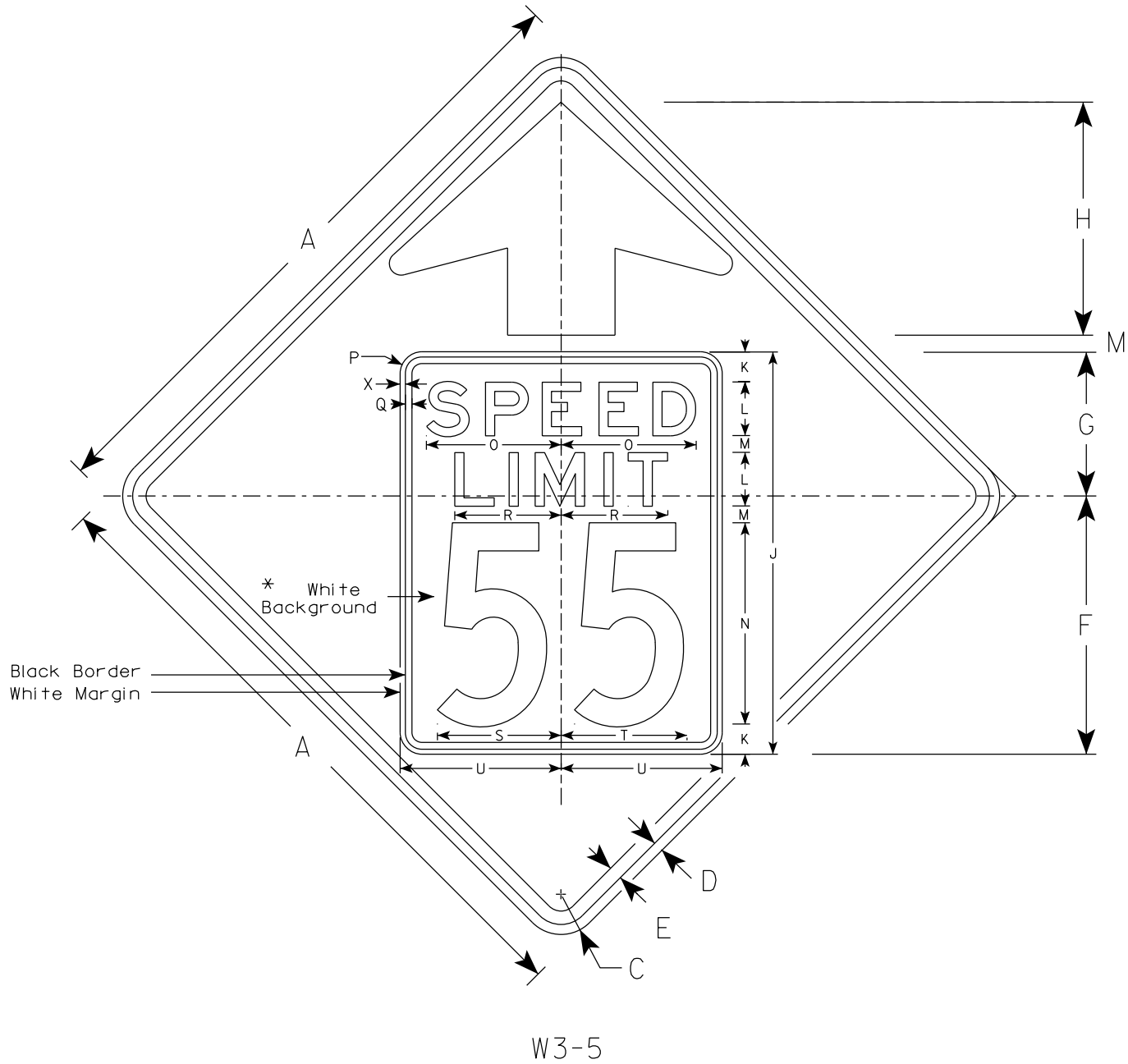
SHEET NO: 172

E

NOTES

- 1. Sign is Type II - See Note 2 for Sheeting Type
- 2. Color: *
Background - Yellow* (Type F Reflective)
Message - Black
- 3. Message Series - C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN

W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/30/2023 PLATE NO. W3-5.7

PROJECT NO:

SHEET NO: 173

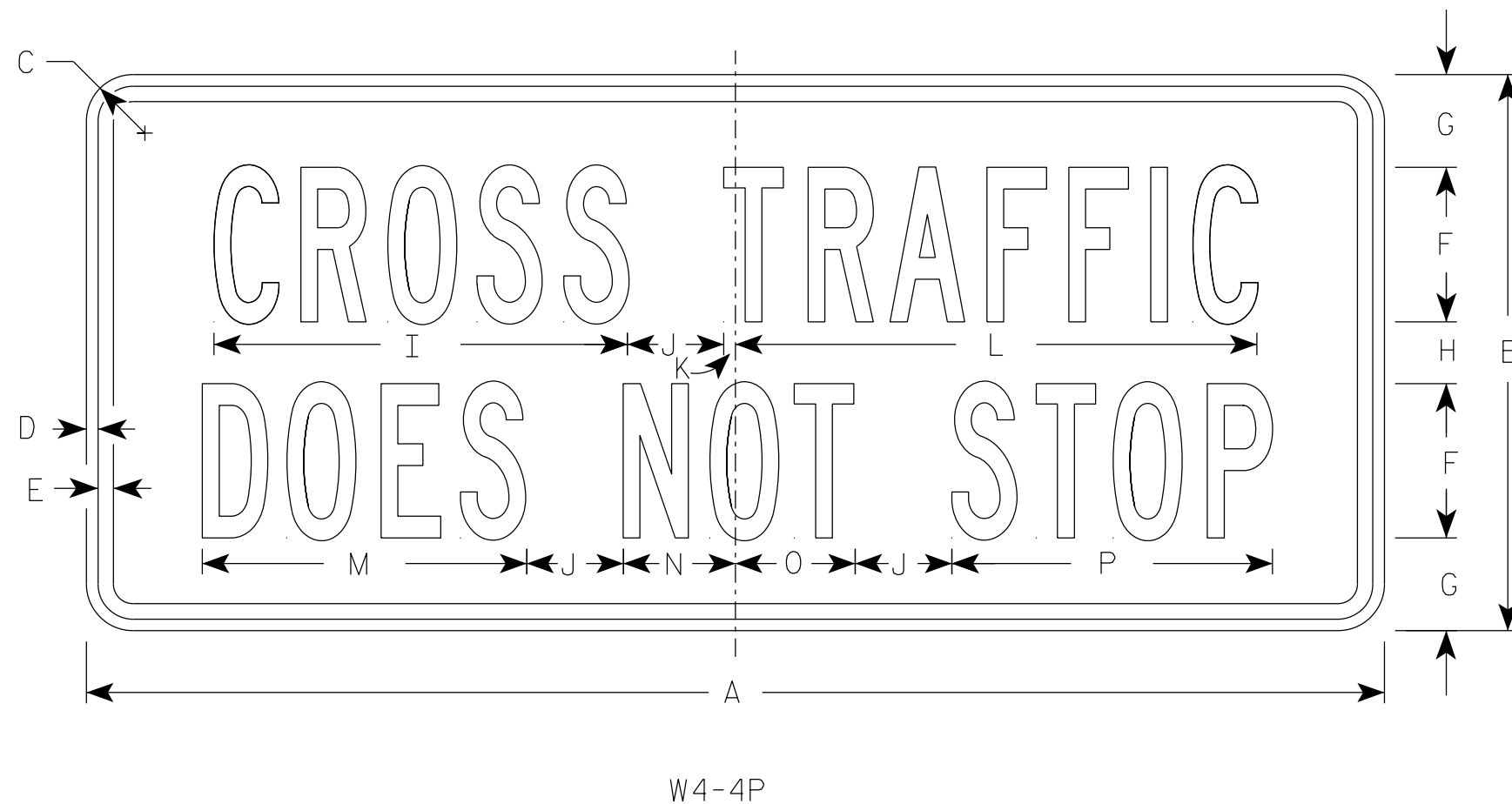
E

7

7

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - B



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	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
2M	24	12	1 1/2	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
3	36	15	1 1/2	3/8	1/2	4	2 5/8	1 3/4	10 3/4	2 3/8	3/8	13 1/2	8 3/8	3	3 1/8	8 3/8											3.75
4	42	18	1 1/2	3/8	1/2	5	3	2	13 3/8	3 1/8	3/8	16 7/8	10 1/2	3 5/8	3 7/8	10 3/8											5.25
5																											

PROJECT NO:

HWY:

COUNTY:

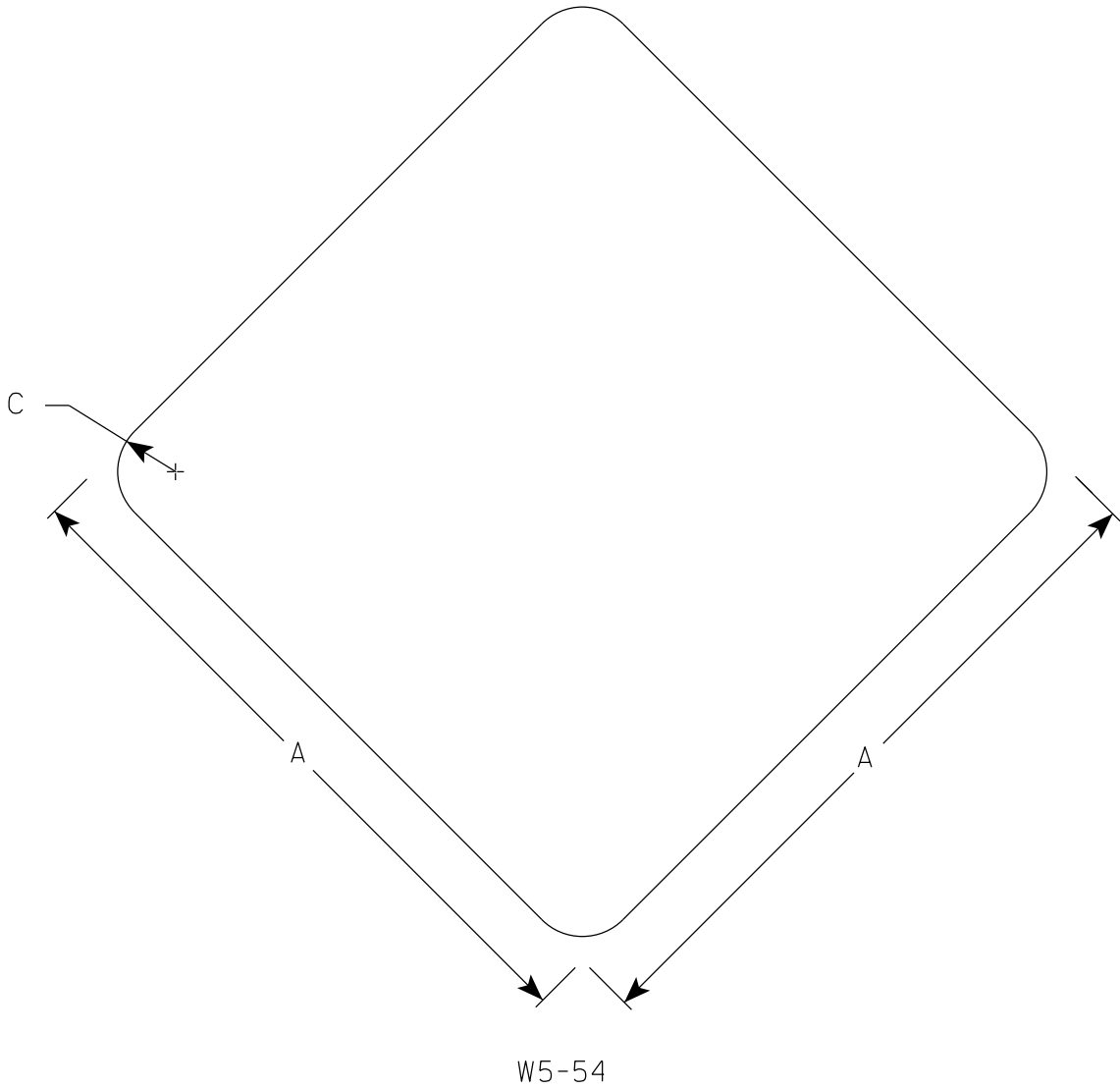
SHEET NO: 174

E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:

Background - Yellow



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12		1 1/2																								1.0
2S	18		1 1/2																								2.25
2M	18		1 1/2																								2.25
3																											
4																											
5																											

STANDARD SIGN

W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch

for State Traffic Engineer

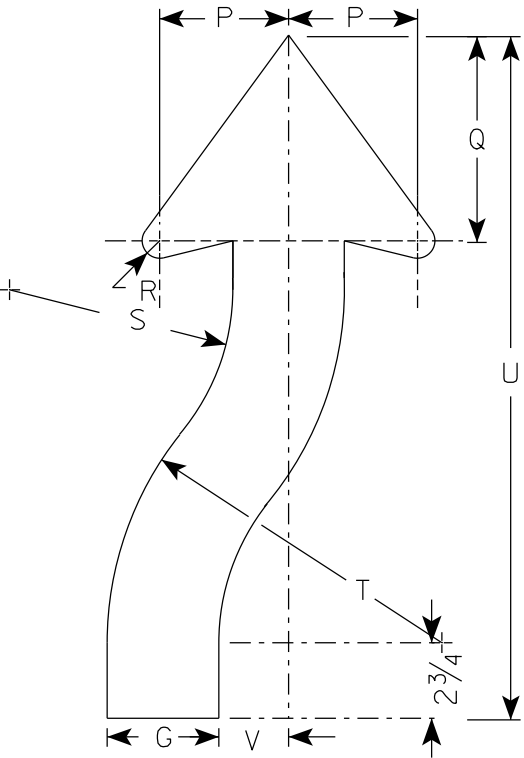
DATE 3/5/2024PLATE NO. W5-54.9

NOTES

1. Sign is Type II - Type F Reflective
2. Color:

Background - Yellow

Message - Black
3. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		2 1/4	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		2 1/4	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3	36		2 1/4	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
4	48		3	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		3	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN

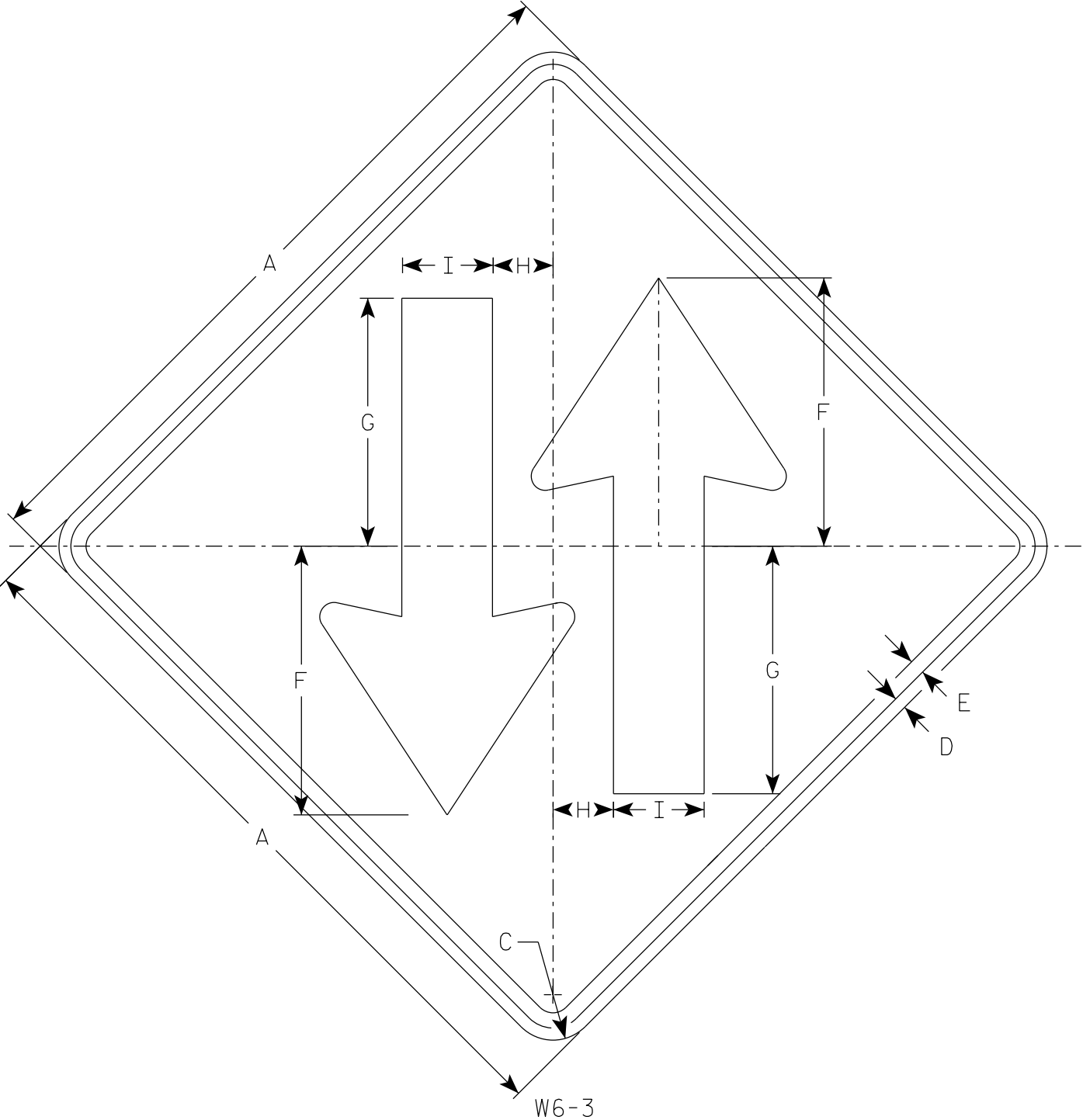
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 9/6/2023 PLATE NO. W6-1.15

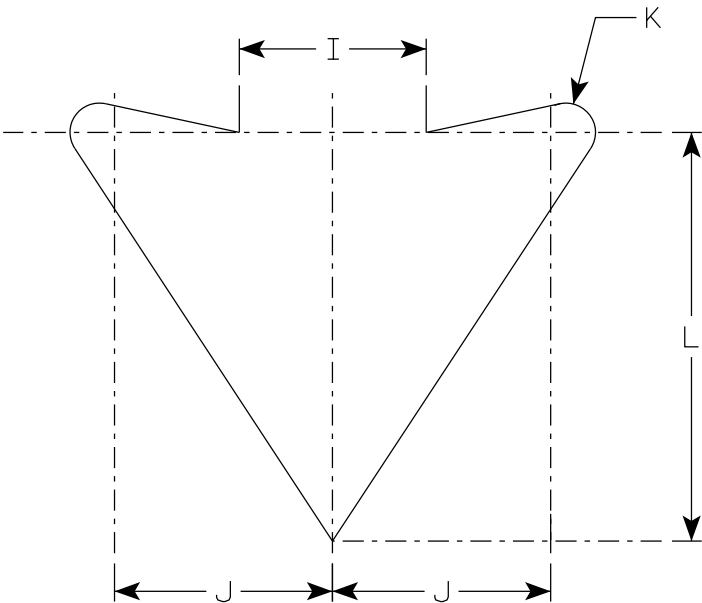
7



W6-3

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		2 1/4	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		2 1/4	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3	36		2 1/4	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
4	48		3	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		3	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

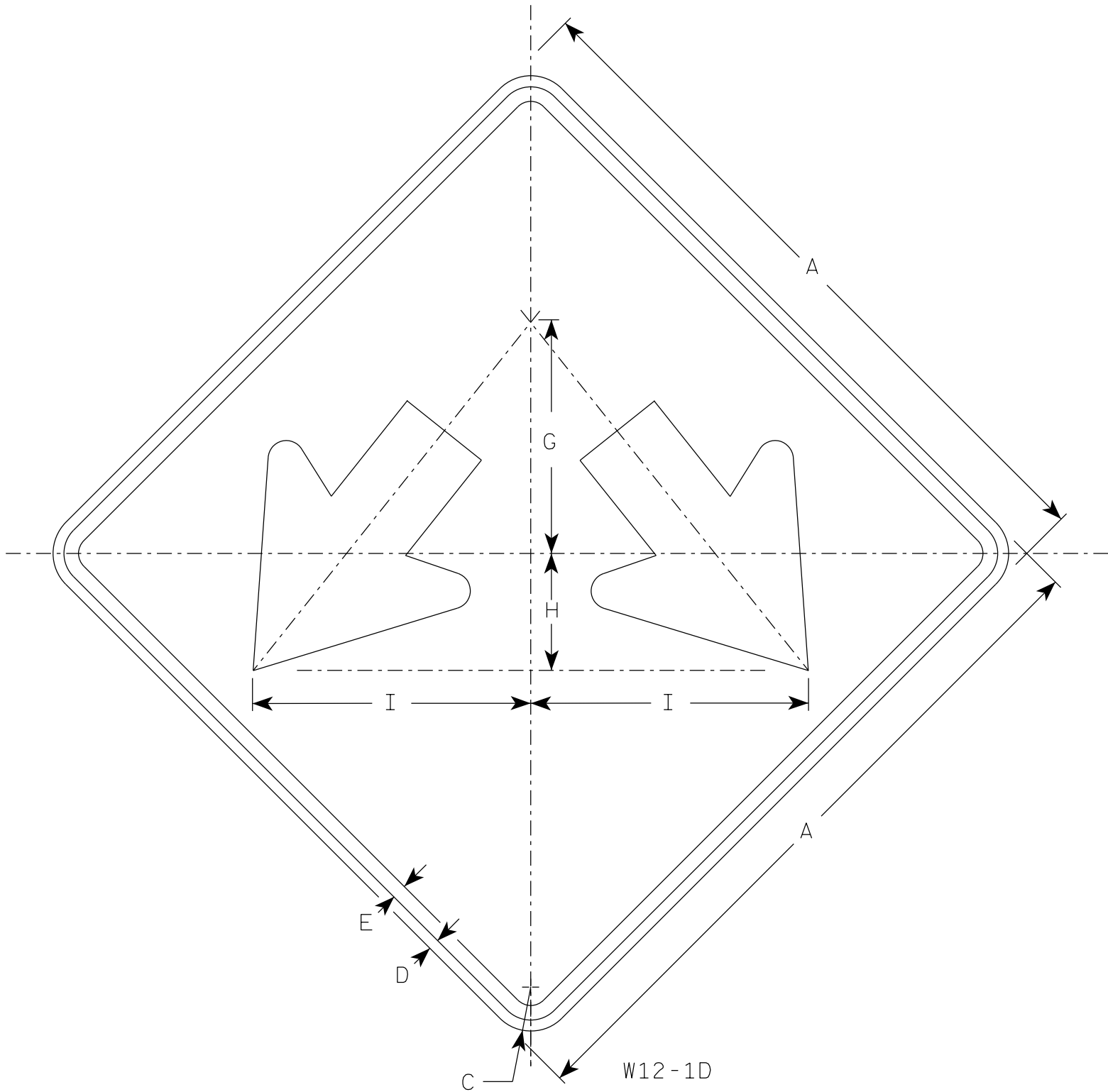
STANDARD SIGN

W6-3

WISCONSIN DEPT OF TRANSPORTATION

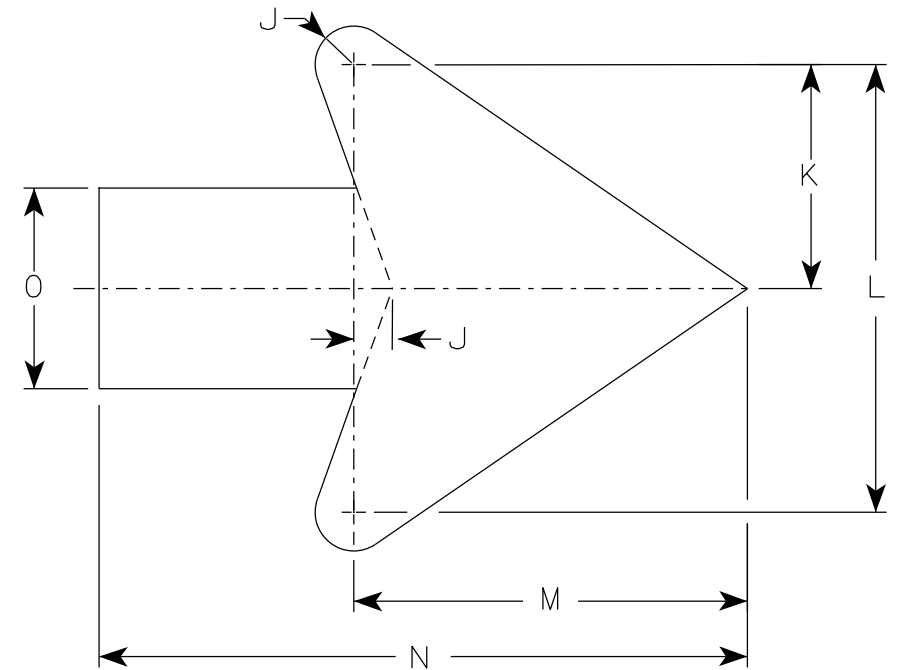
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 9/6/2023 PLATE NO. W6-3.12



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Yellow
Message - Black



Arrow Detail

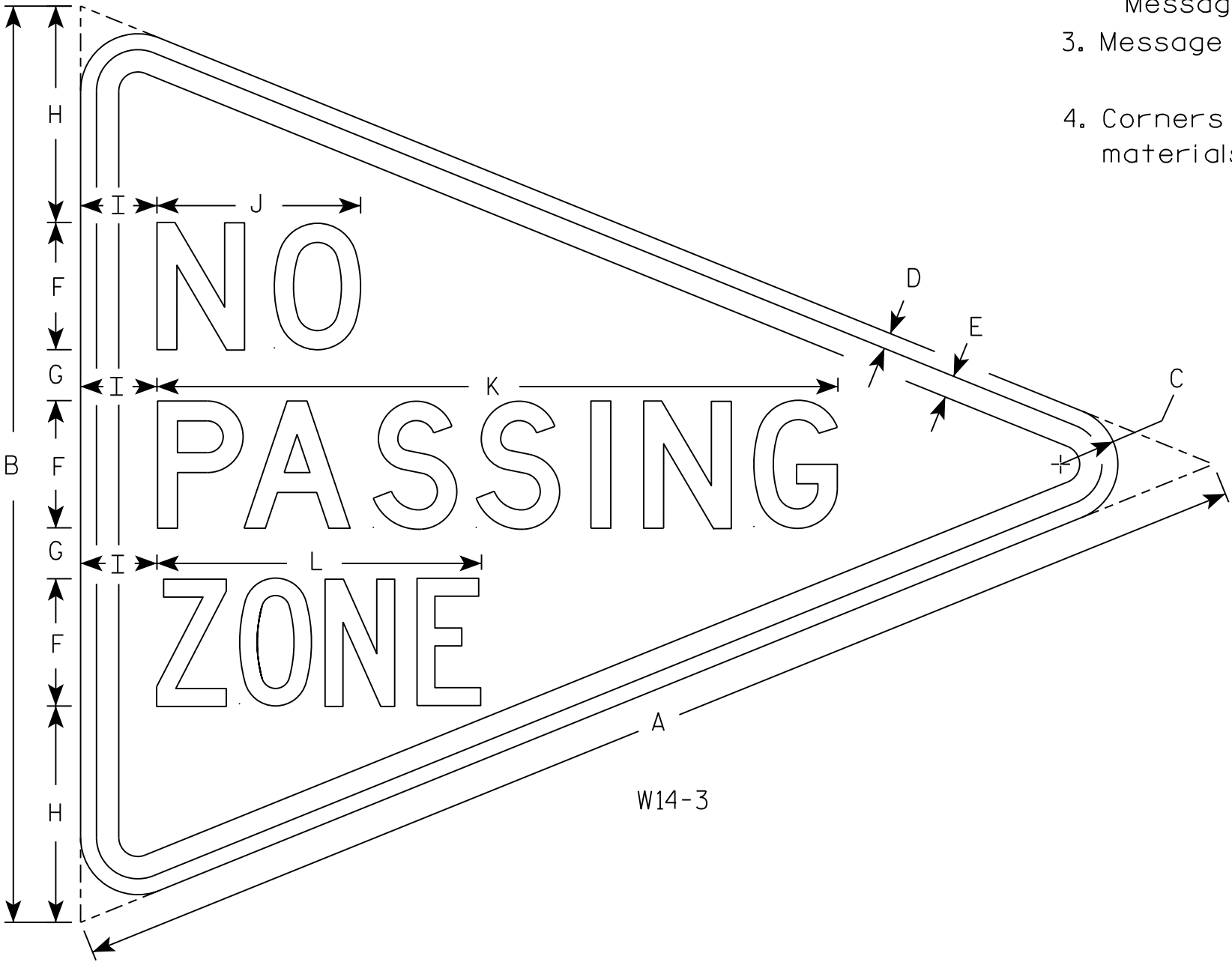
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/2	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/2	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 7/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		2 1/4	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		3	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN W12-1D	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 11/30/2023	PLATE NO. W12-1D.16

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 178	E
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NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
- 4. Corners and borders shall be rounded on all base materials for this sign.



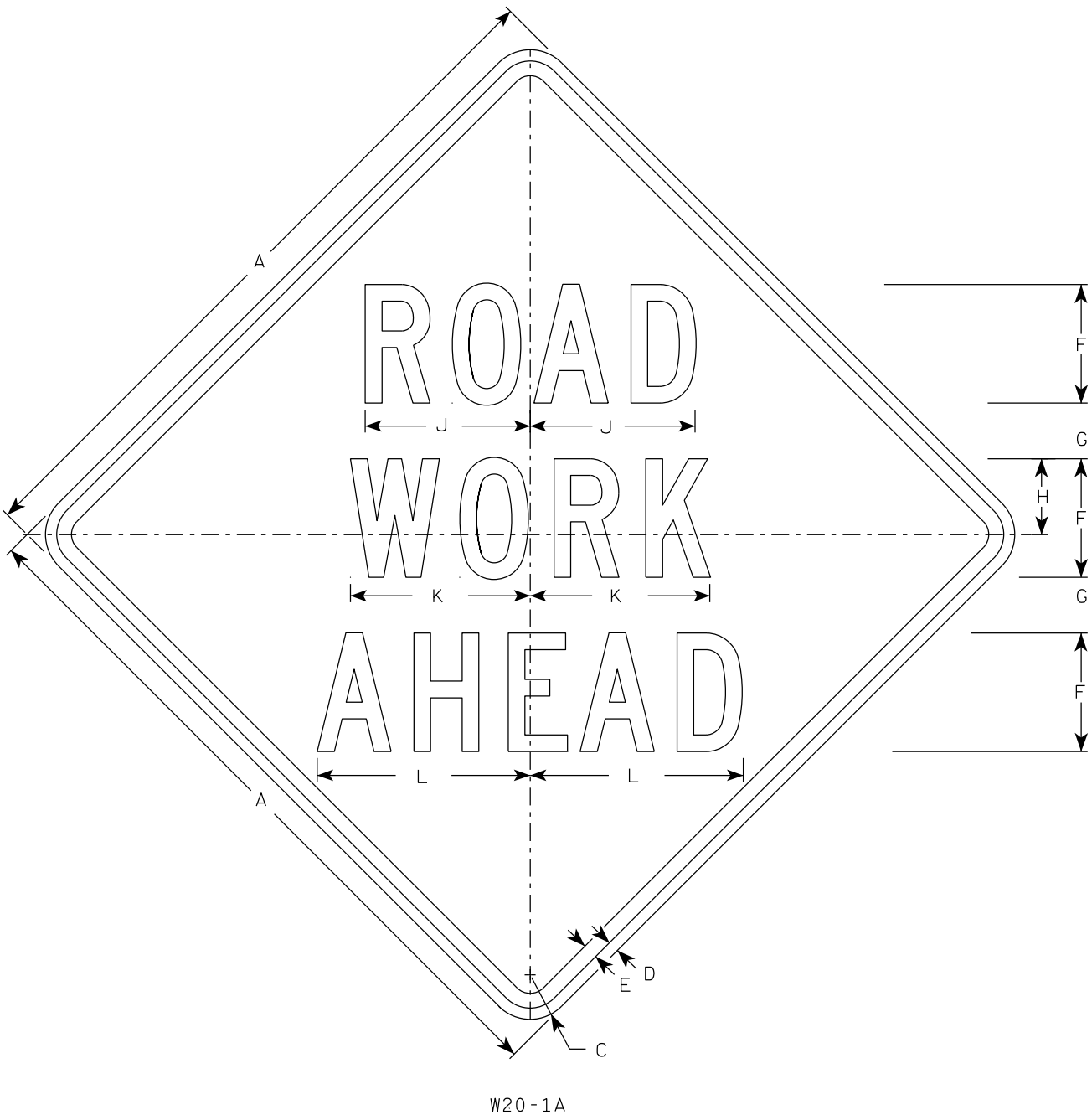
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

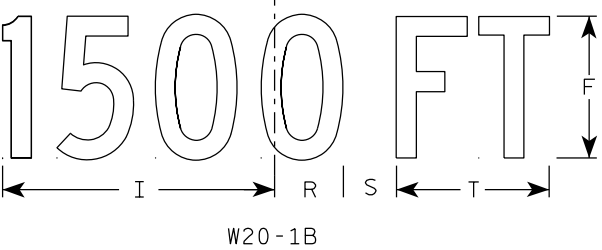
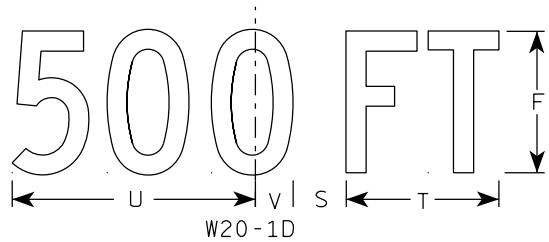
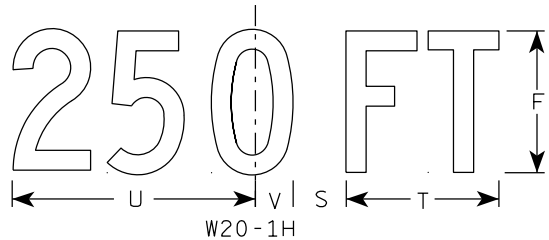
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

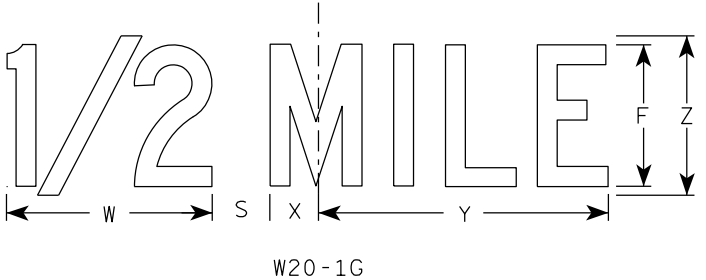


W20-1A

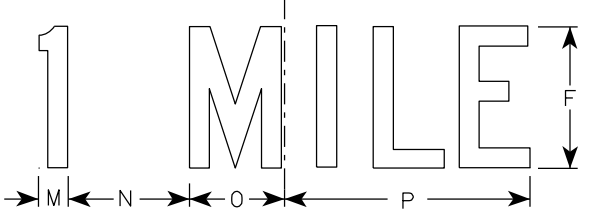


W20-1B

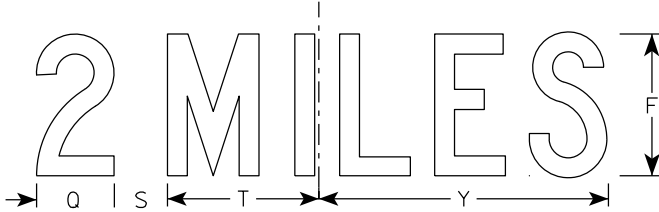
- NOTES
1. Sign is Type II - Type F Reflective
 2. Color:
Background - Orange
Message - Black
 3. Message Series - C
 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



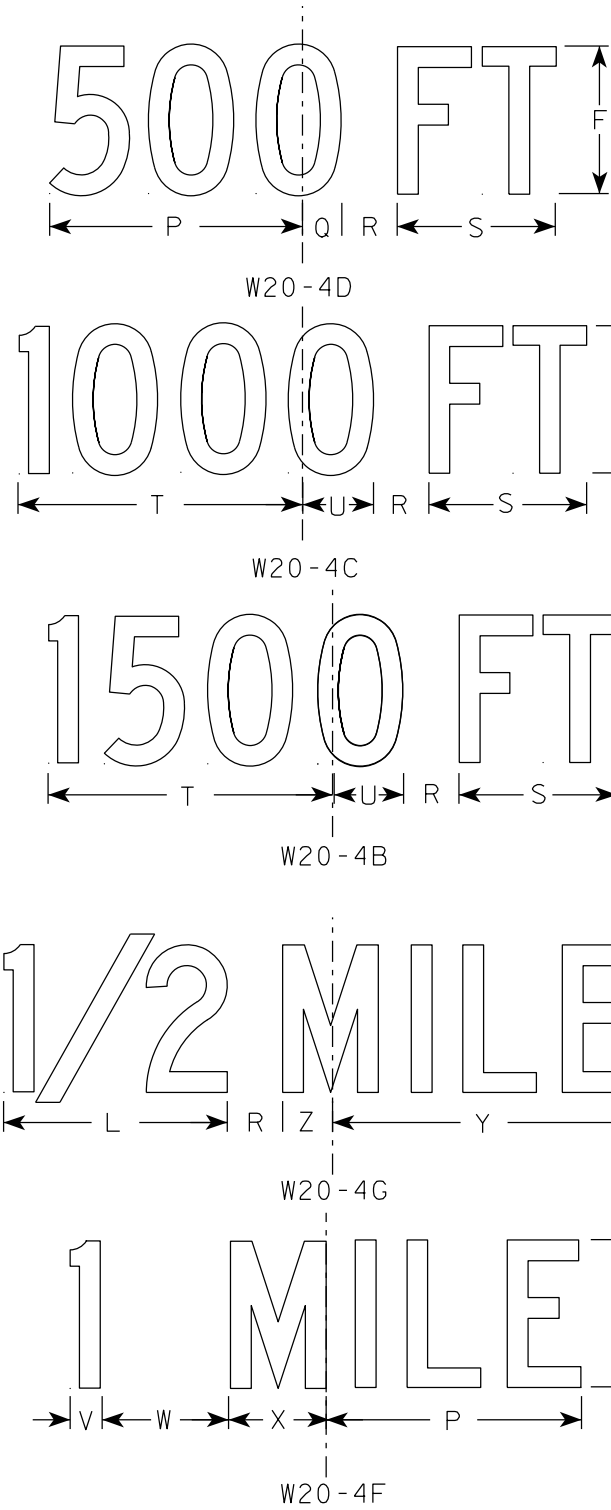
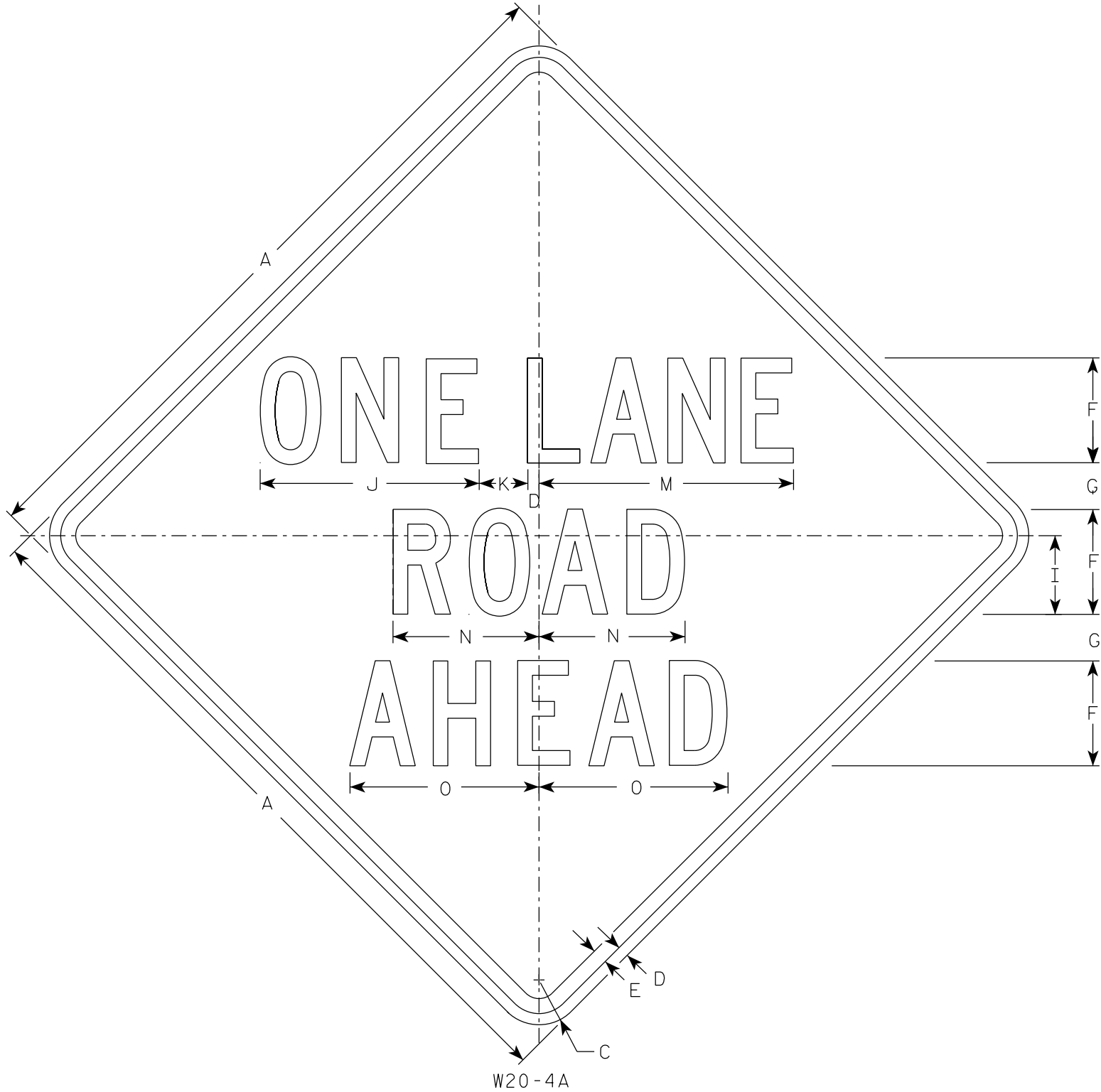
W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

7



- NOTES
- Sign is Type II - Type F Reflective
 - Color:
Background - Orange
Message - Black
 - Message Series - C
 - 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.

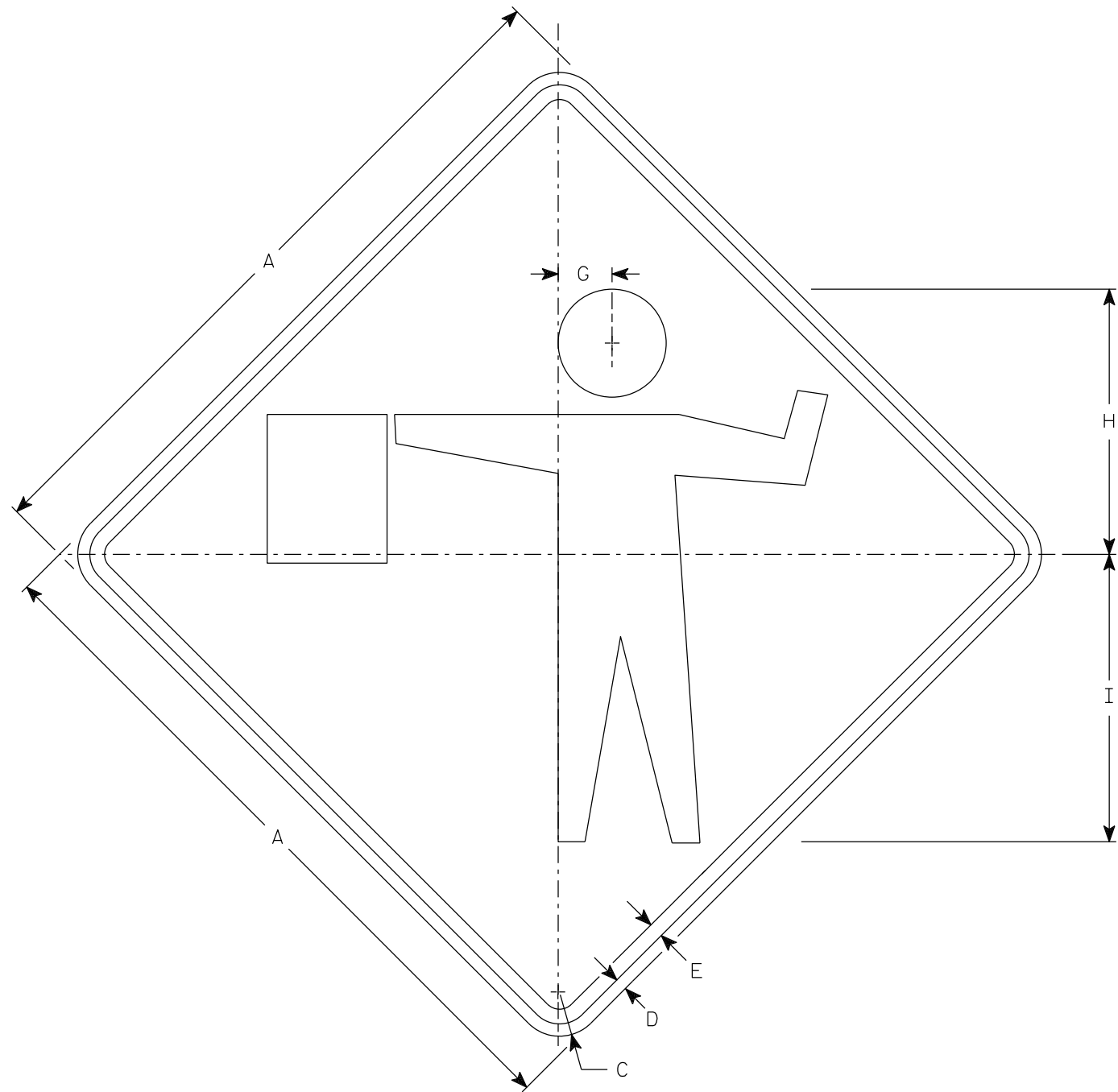
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-4.10



W20-7A

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.0
2S	48		3	3/4	1		3 3/4	18	19 1/2																		16.0
2M	48		3	3/4	1		3 3/4	18	19 1/2																		16.0
3	48		3	3/4	1		3 3/4	18	19 1/2																		16.0
4	48		3	3/4	1		3 3/4	18	19 1/2																		16.0
5	48		3	3/4	1		3 3/4	18	19 1/2																		16.0

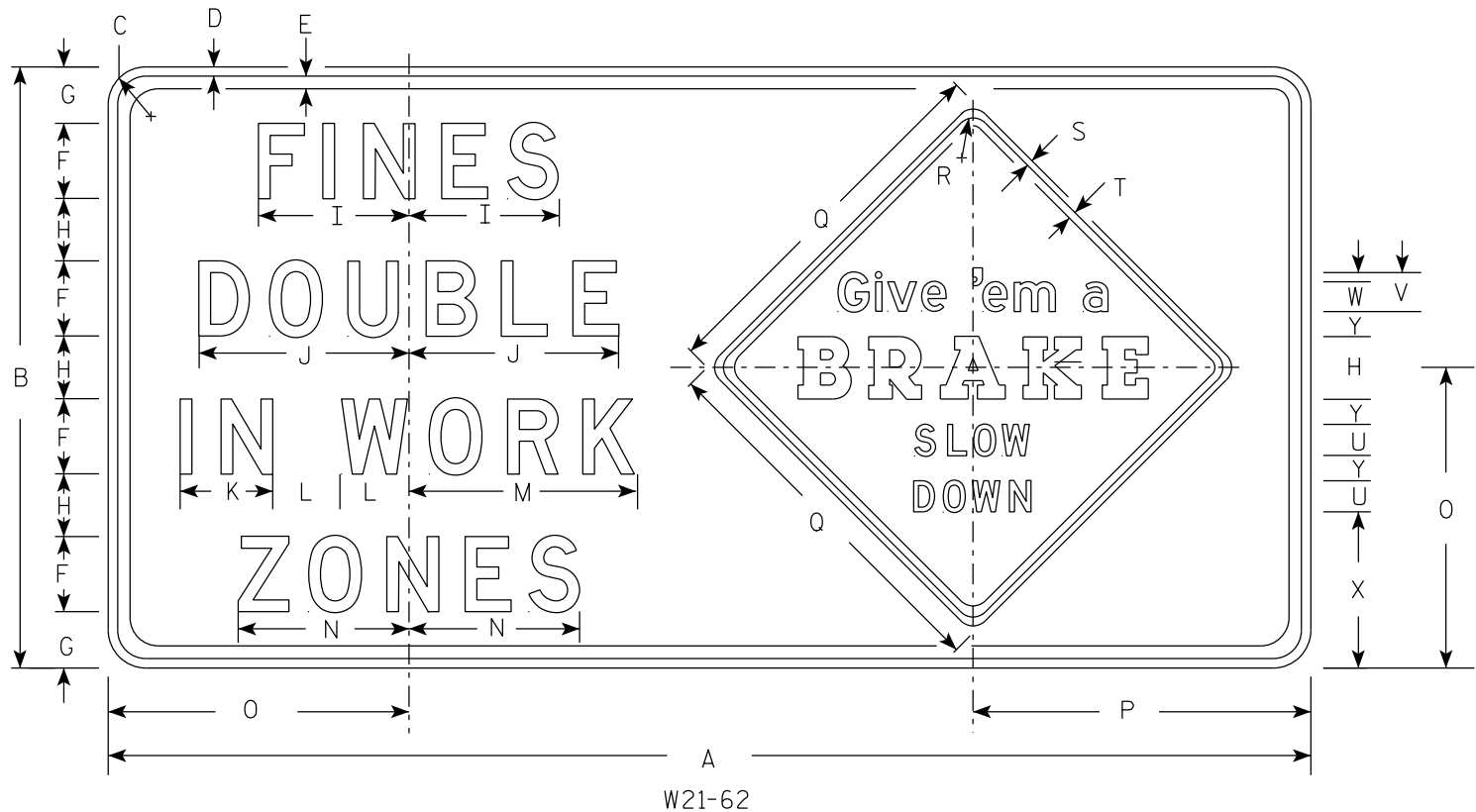
STANDARD SIGN
W20-7A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

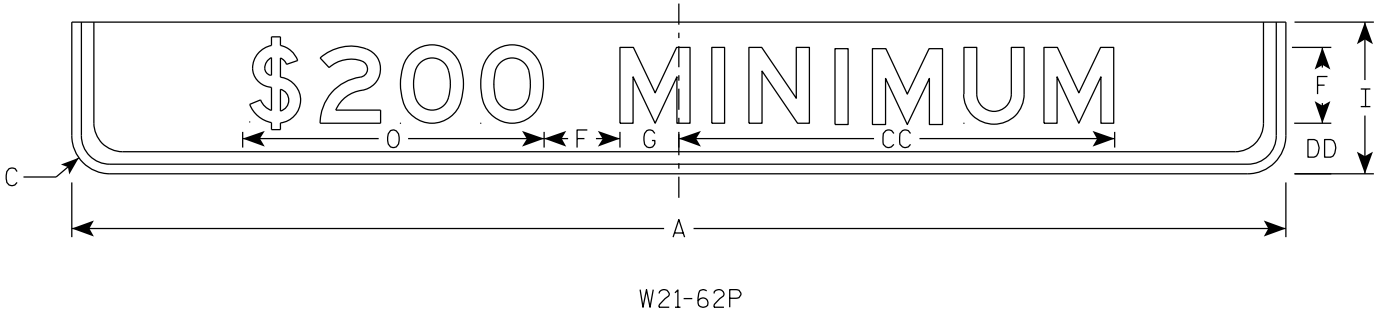
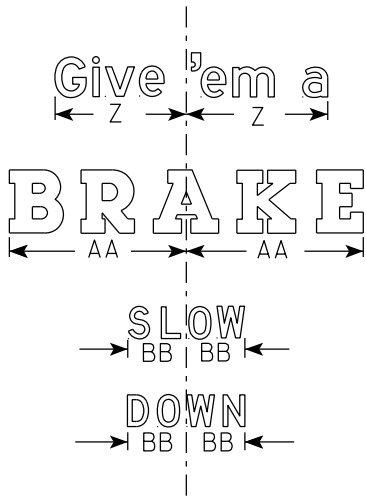
DATE 1/10/2024 PLATE NO. W20-7A.6

7



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White - (See Note 5)
Message - Black
3. Message Series -
Fines Double Message - All lines are Series D
Give 'em a Brake -
Line one is Series E, line two is a Special Graphic Series and lines three and four are Series D.
4. The base material shall be plywood. Corners may be square or rounded, but borders shall be rounded as shown. The base material for Give 'em a Brake sign can be a separate sheet of aluminum with the corners and borders rounded as shown. This separate panel shall then be attached to the plywood with aluminum or stainless steel sheet metal screws.
5. Background for the Give 'em a Brake sign shall be Type F reflective orange.



7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	Area sq. ft.
1																															
2S																															
2M																															
3	96	48	3	¾	1	6	4 ½	5	12	16 ¾	7 ⅜	5 ½	18 ¼	13 ⅝	24	27	30	1 ⅜	½	⅝	2 ½	3 ⅛	2 ⅜	12 ½	2	10 ¾	14	4 ⅝	34 ½	4	32.0
4																															
5																															

PROJECT NO:

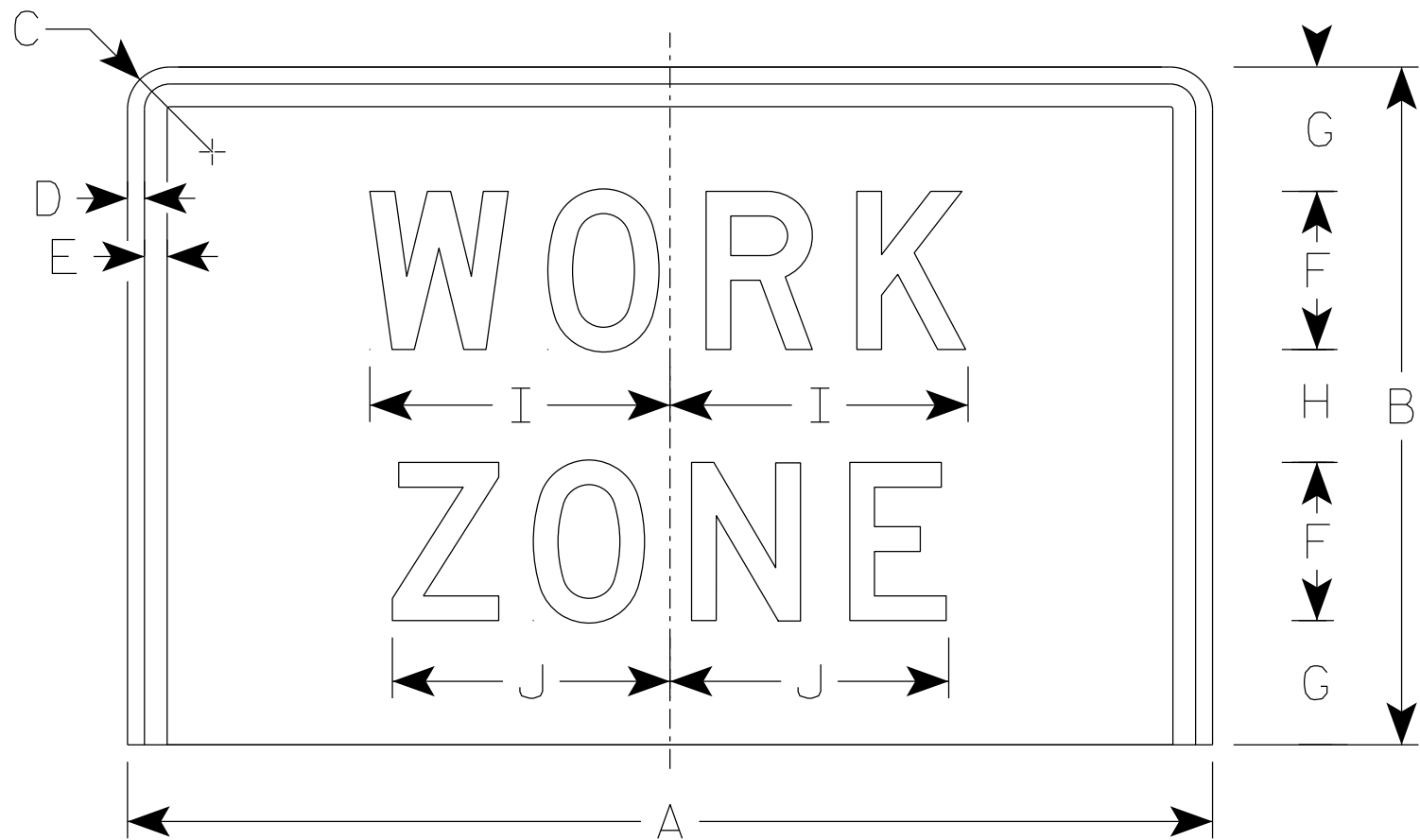
HWY:

COUNTY:

SHEET NO: 183

E

7



W21-62Q

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - D

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
2M	48	30	1 7/8	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
3	48	30	1 7/8	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
4	48	30	1 7/8	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
5	48	30	1 7/8	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0

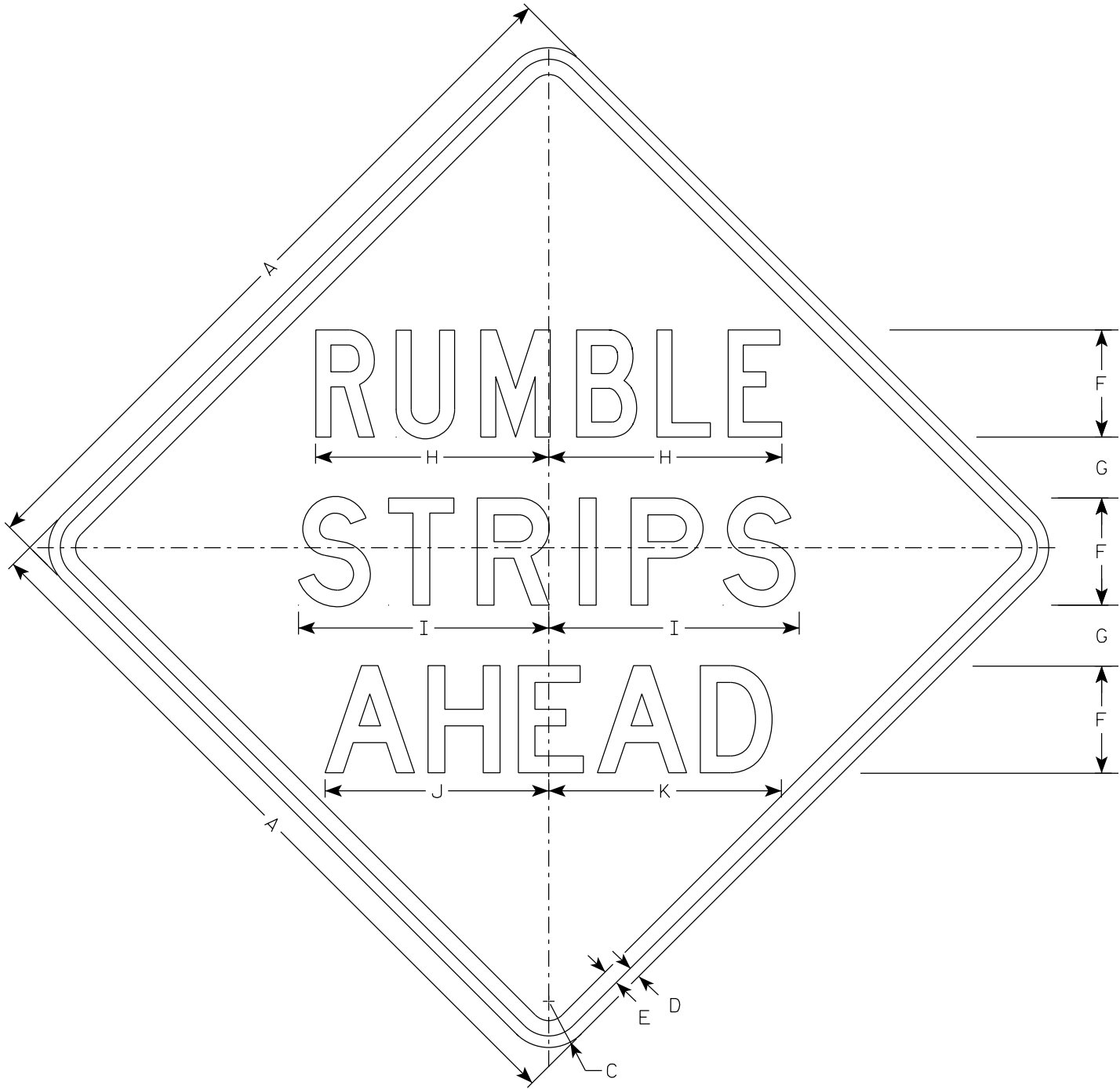
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 184

E



W21-65

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
 - Background - Orange
 - Message - Black
- 3. Message Series - see note 4
- 4. Line 1 is Series C
 - Lines 2 and 3 are Series D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 1/4	10 7/8	11 5/8	11	11 5/8																9.0
2S	48		3	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
2M	48		3	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
3	48		3	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
4	48		3	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
5	48		3	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0

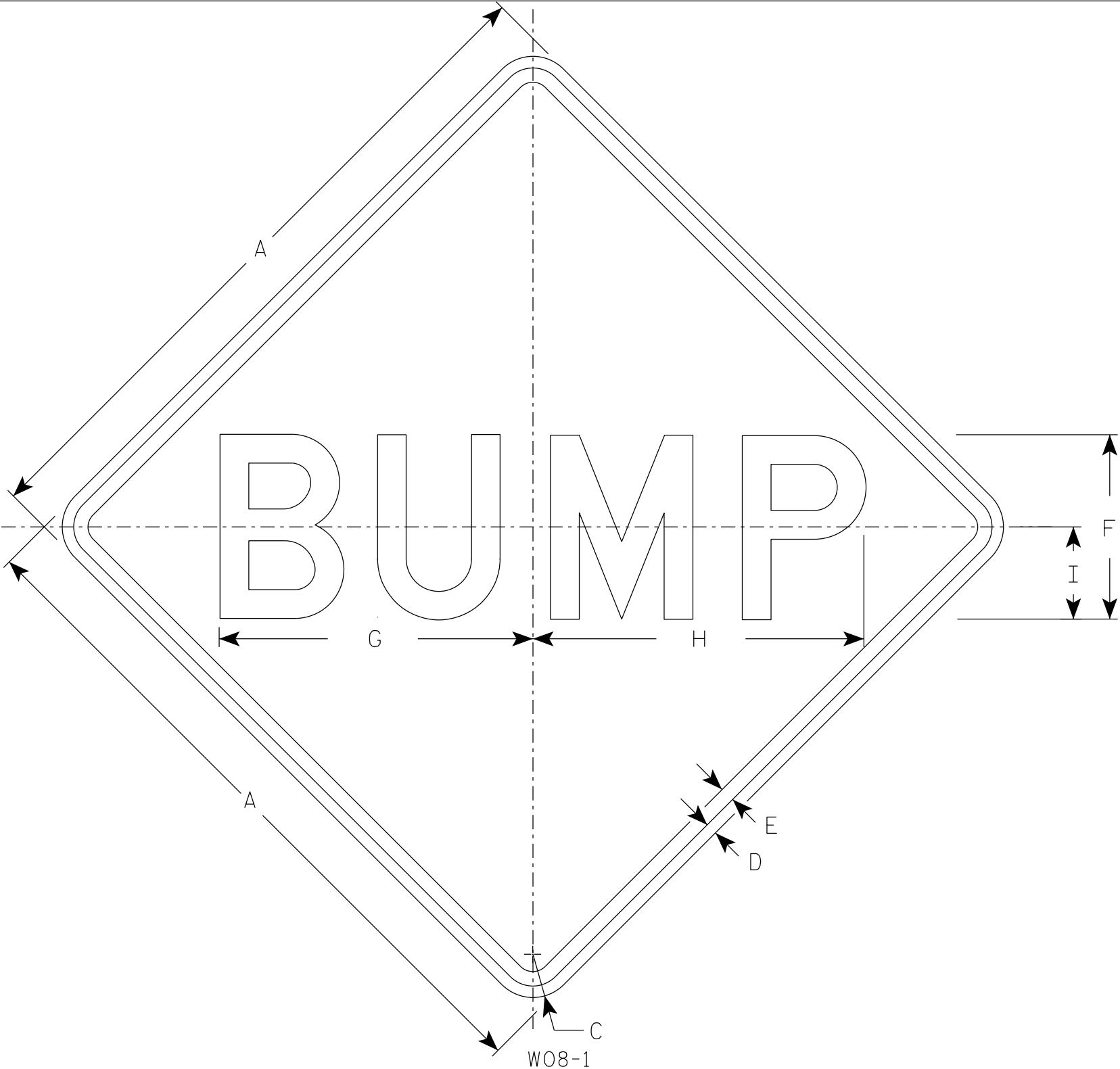
STANDARD SIGN
W21-65

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/17/2024 PLATE NO. W21-65.2

7



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.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	10	16 7/8	17 7/8	5																		9.0
2S	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0
2M	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0
3	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0
4	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0
5	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0

STANDARD SIGN
W08-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 1/30/2024 PLATE NO. W08-1.2

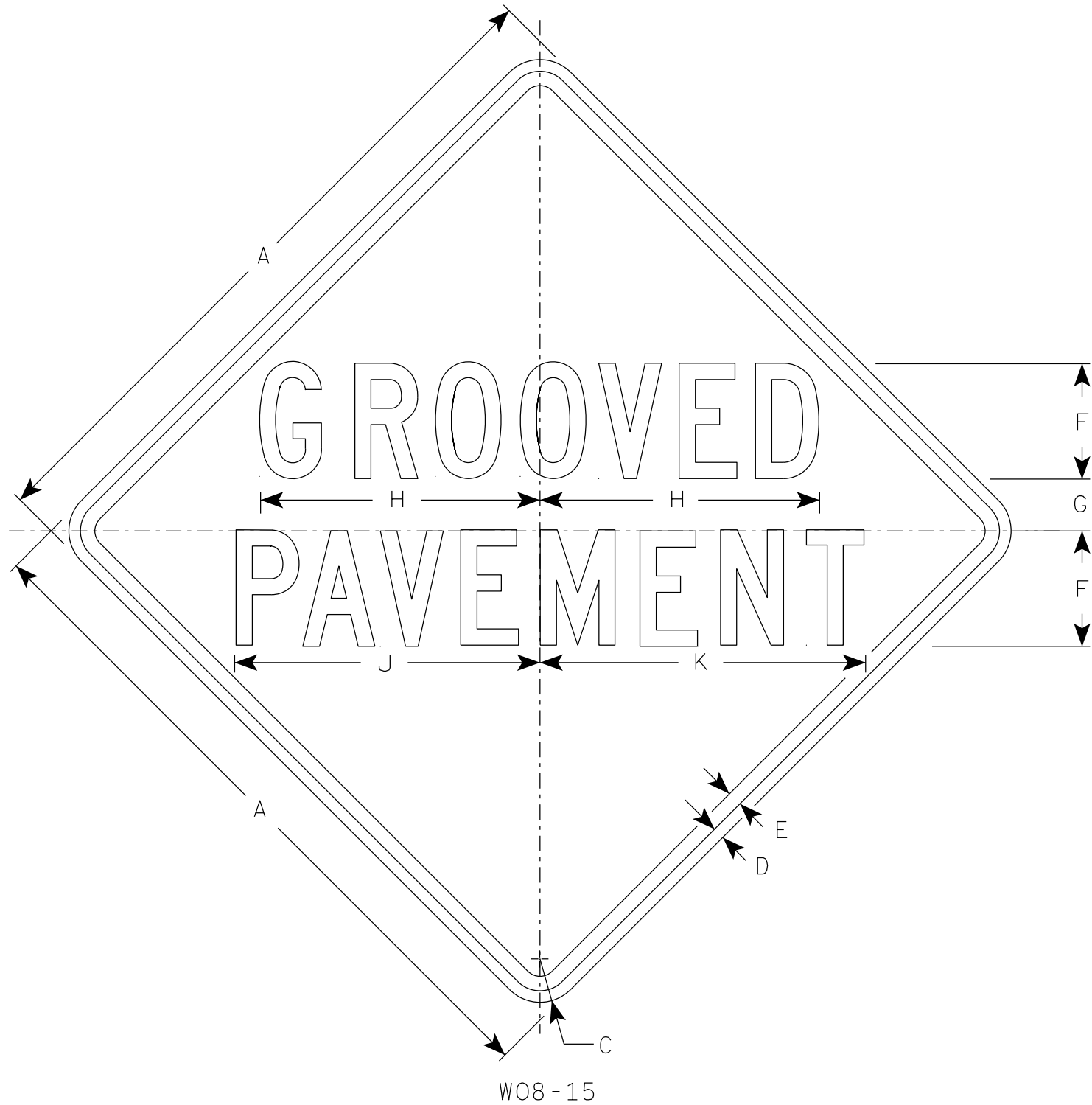
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 186

E



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	2 5/8	14 1/2		15 7/8	17																9.0
2S	48		3	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0
2M	48		3	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0
3	48		3	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0
4	48		3	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0
5	48		3	3/4	1	8	3 1/2	19 3/8		21 1/4	22 5/8																16.0

STANDARD SIGN
W08-15

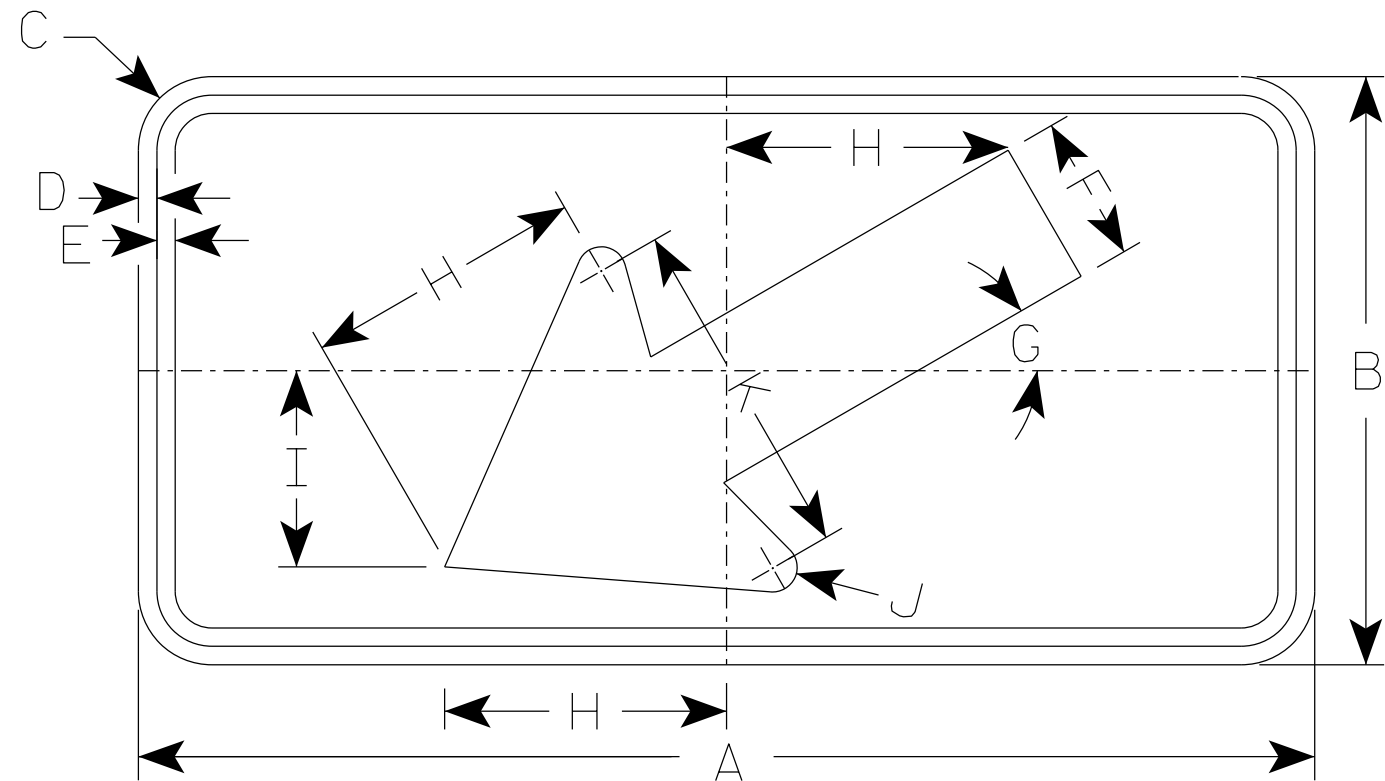
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/31/2024 PLATE NO. W08-15.2

PROJECT NO: HWY: COUNTY: SHEET NO: 187 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W0815.dgn PLOT DATE : 31-JAN 2024 3:47 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADDs SHEET 42



W016 - 7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Corners may be square or rounded but corners shall be rounded when base material is metal.
4. W016-7R is the same as W016-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2S	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
2M	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
3	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
4	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0

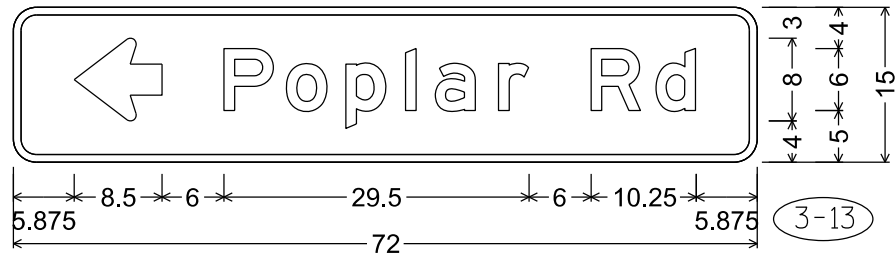
PROJECT NO:			HWY:			COUNTY:			SHEET NO: 188										E
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STANDARD SIGN
W016 - 7

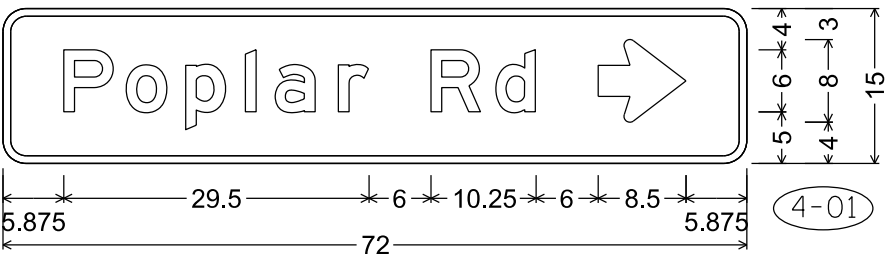
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W016-7.3



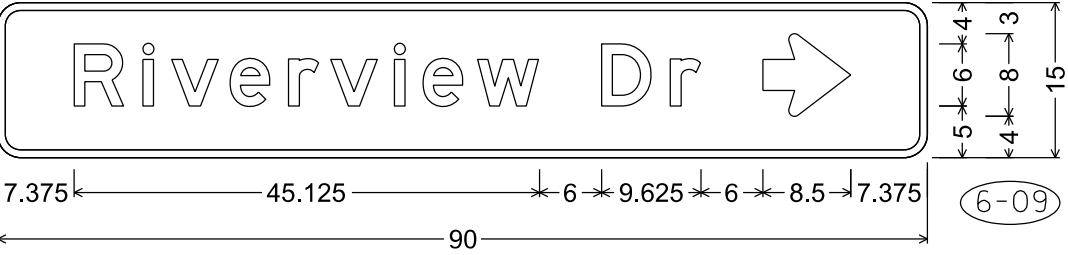
D1-1; 2.250" Radius, 0.750" Border



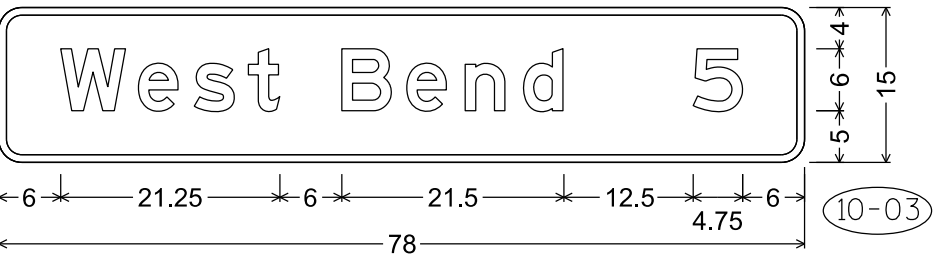
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



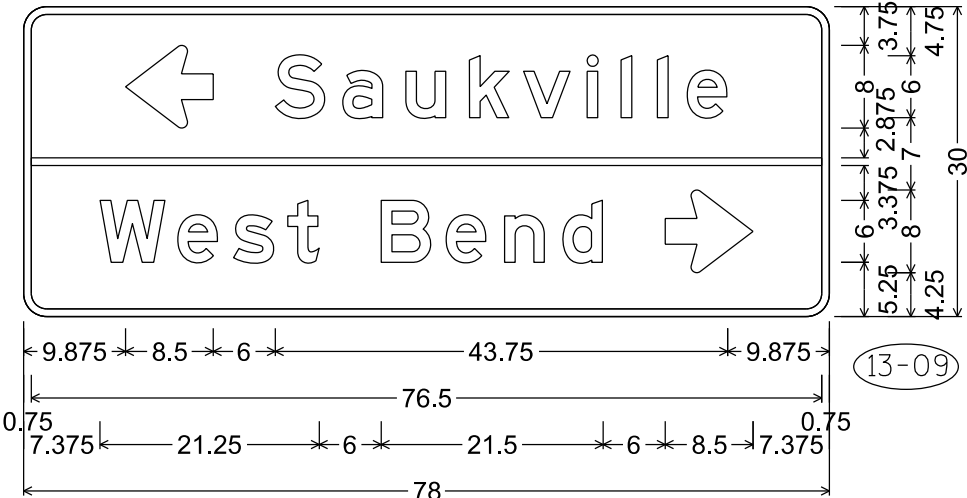
D1-1; 2.250" Radius, 0.750" Border



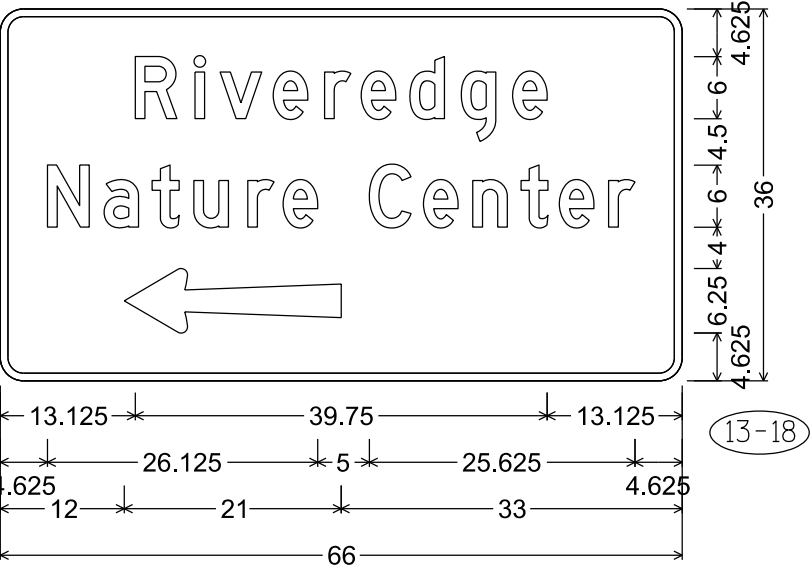
D2-1; 2.250" Radius, 0.750" Border

NOTES

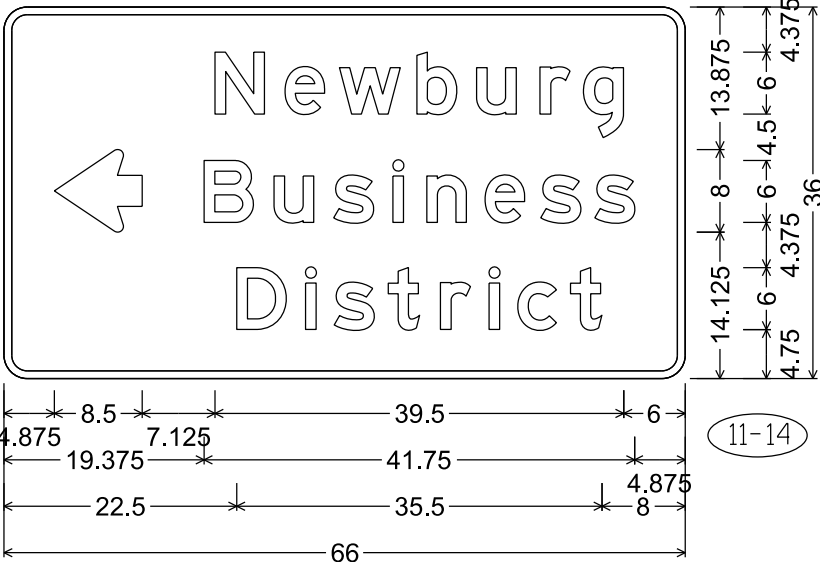
- 1. Signs are Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E or as noted



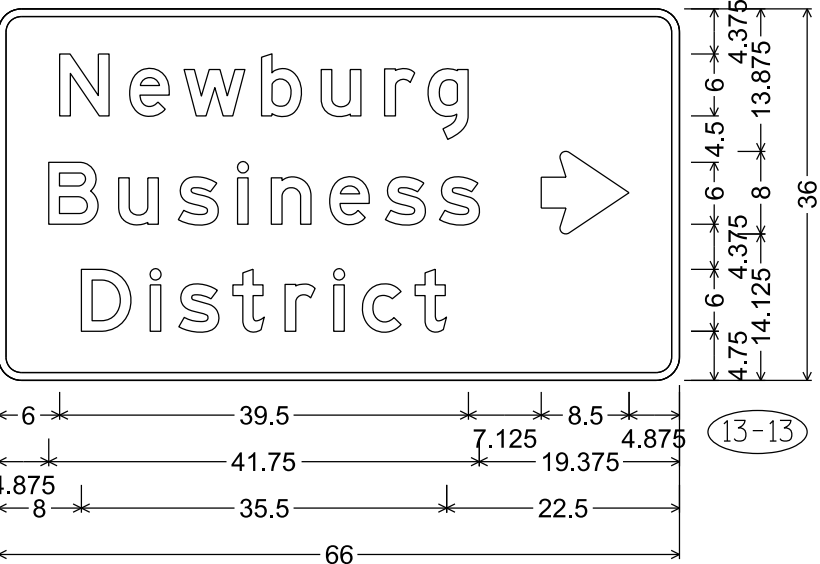
D1-2; 2.250" Radius, 0.750" Border



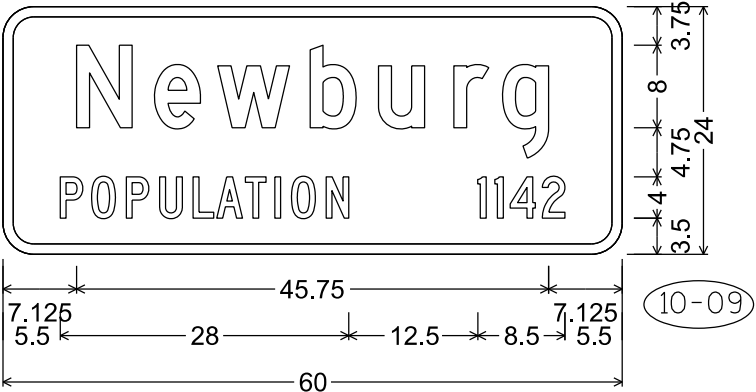
2.250" Radius, 0.750" Border, White on Brown;
"Riveredge", D; "Nature", D; "Center", D



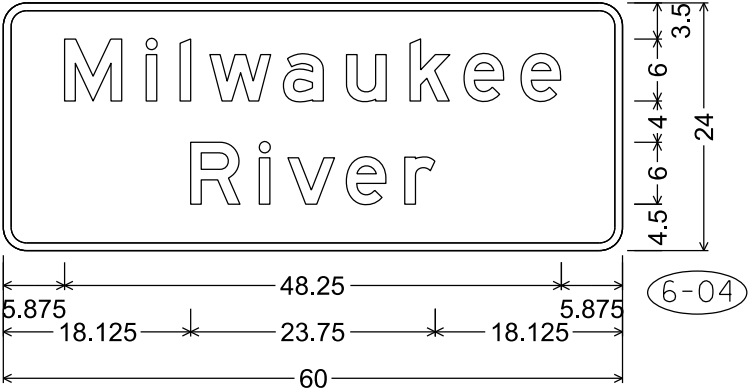
D1-3; 2.250" Radius, 0.750" Border



D1-3; 2.250" Radius, 0.750" Border



I2-3; 3.000" Radius, 1.000" Border
"Newburg", D; "POPULATION", C; "1142", C;



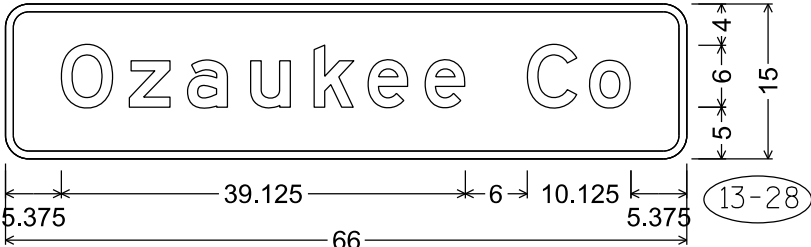
I3-1; 2.250" Radius, 0.750" Border



I2-2; 2.250" Radius, 0.750" Border

NOTES

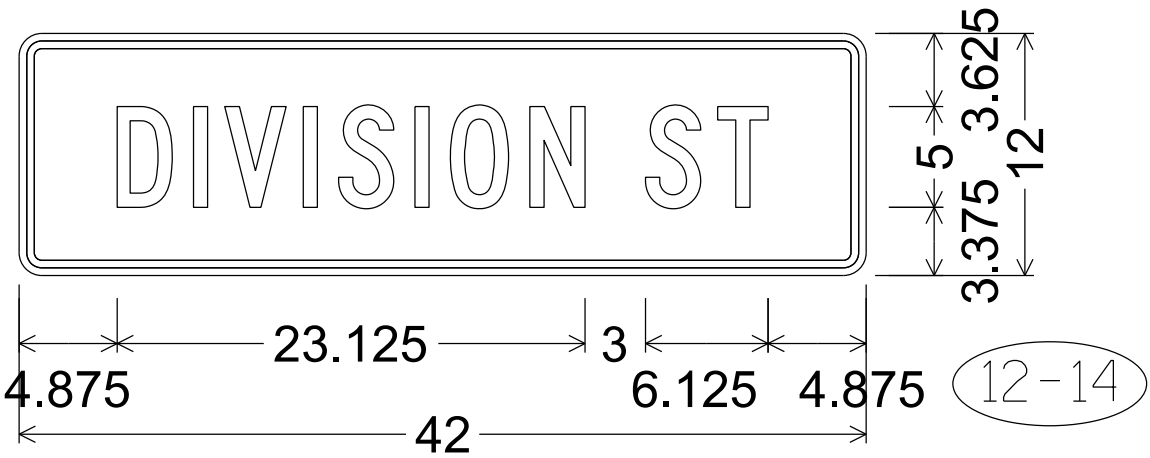
- 1. Signs are Type II - Type H Reflective
- 2. Color:
 - Background - Green
 - Message - White
- 3. Message Series - E or as noted



I2-2; 2.250" Radius, 0.750" Border

NOTES

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



1.125" Radius, 0.375" Border, 0.375" Indent

7

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ORIGINAL PLANS PREPARED BY

08-30-2024
(Date)

(Signature)



ACCEPTED SDR
CHIEF STRUCTURES DESIGN ENGINEER DATE 12/02/24

STRUCTURE	RW-66-1	RW-66-2
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RETAINING WALLS ALONG STH 33	
COUNTY	TOWN/CITY/VILLAGE
WASHINGTON	TRENTON

DESIGN SPEC.	
REHABILITATION N/A	

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
SWE	OOO	PAR	SW

WALL REPAIR 1 GENERAL PLAN

SHEET 1 OF 3

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BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
*509.1500	CONCRETE SURFACE REPAIR R-66-1	SF	200
509.1500	CONCRETE SURFACE REPAIR R-66-2	SF	34
517.3001.S.036	STRUCTURE OVERCOATING CLEANING AND PRIMING R-66-1	EACH	1
517.3001.S.036	STRUCTURE OVERCOATING CLEANING AND PRIMING R-66-2	EACH	1
517.4001.S.037	CONTAINMENT AND COLLECTION OF WASTE MATERIALS R-66-1	EACH	1
517.4001.S.037	CONTAINMENT AND COLLECTION OF WASTE MATERIALS R-66-2	EACH	1
517.6000.S.060	PORTABLE DECONTAMINATION FACILITY	EACH	1

GENERAL NOTES

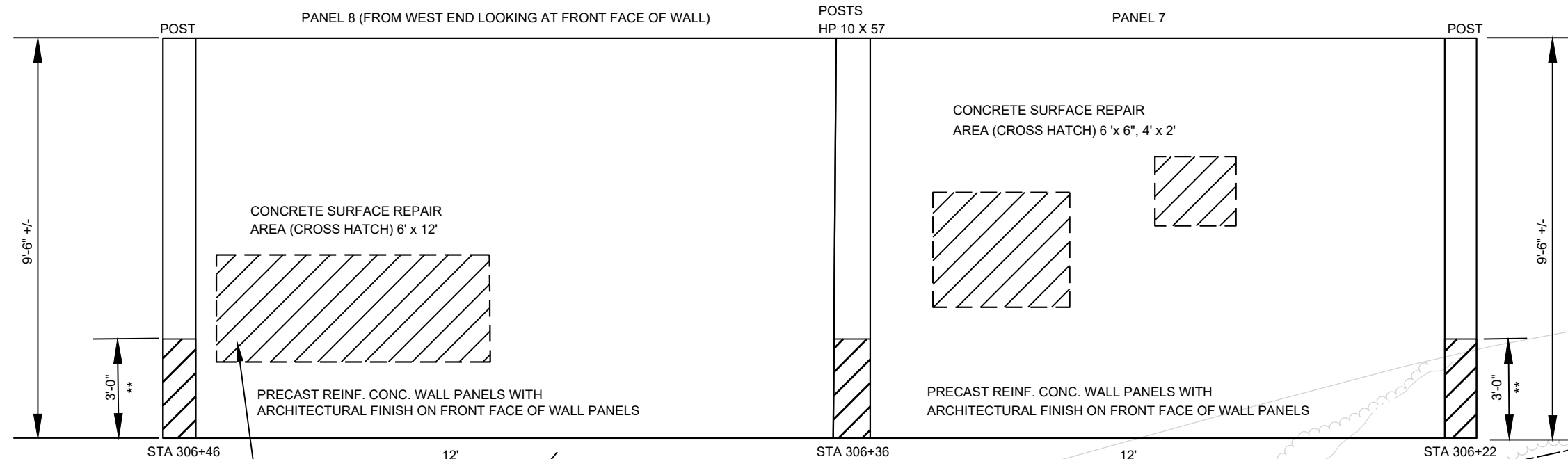
** STEEL POSTS TO BE PAINTED (3"-0') FEET ABOVE GROUND LINE,
ESTIMATED (6) POSTS FOR R-66-1, (4) POSTS FOR R-66-2 AND
AS DIRECTED BY THE ENGINEER.

CONTRACTOR TO MATCH RANDOM WOOD LOOK
ARCHITECTURAL SURFACE TREATMENT FOR CONCRETE
SURFACE REPAIR AREAS.

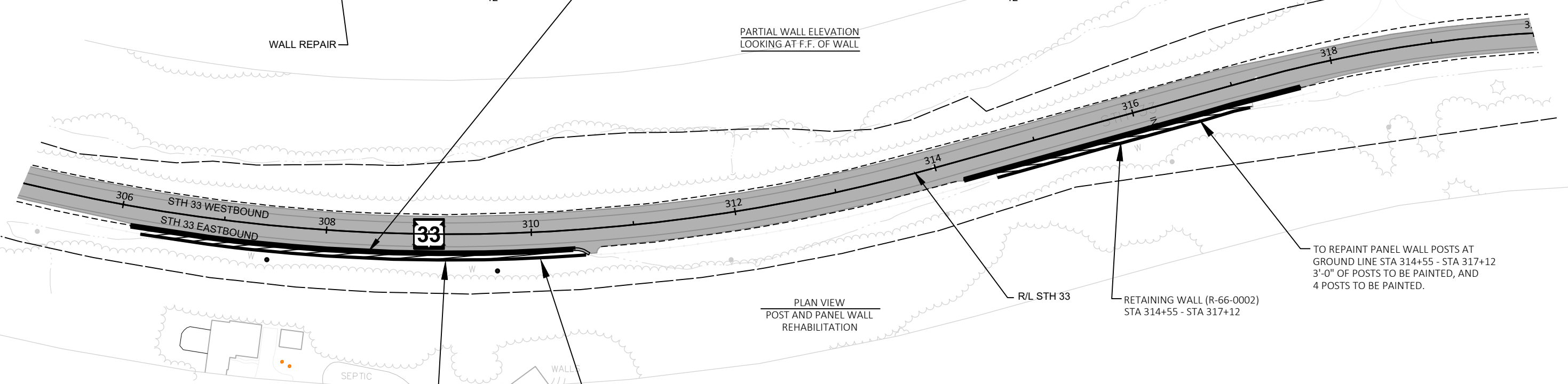
STRUCTURE DESIGN CONTACTS:

LIST OF DRAWINGS:

- LIST OF DRAWINGS:
1. WALL REPAIR 1
 2. WALL REPAIR 2
 3. WALL REPAIR 3



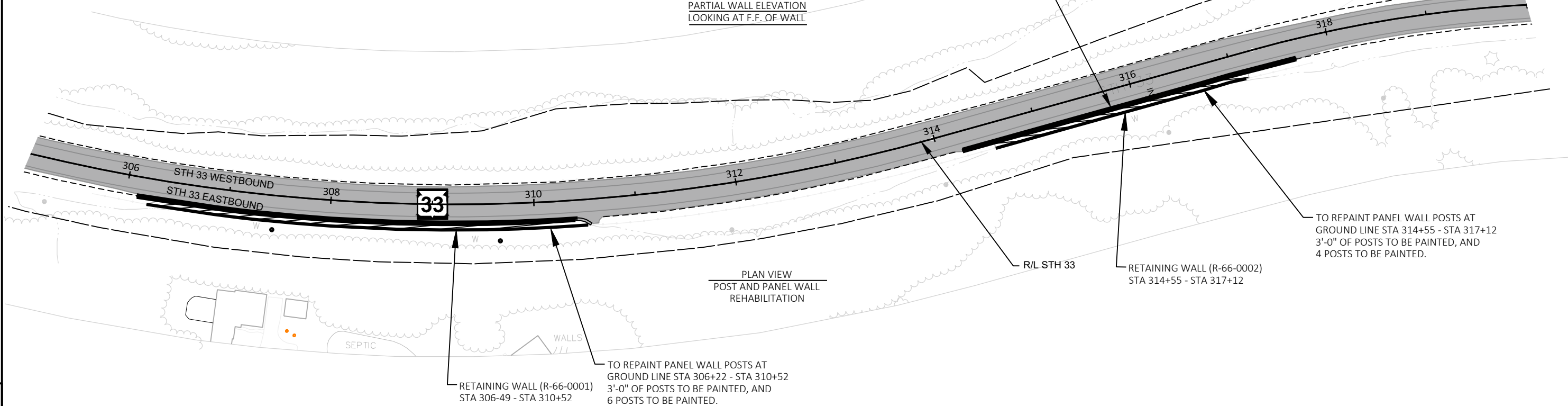
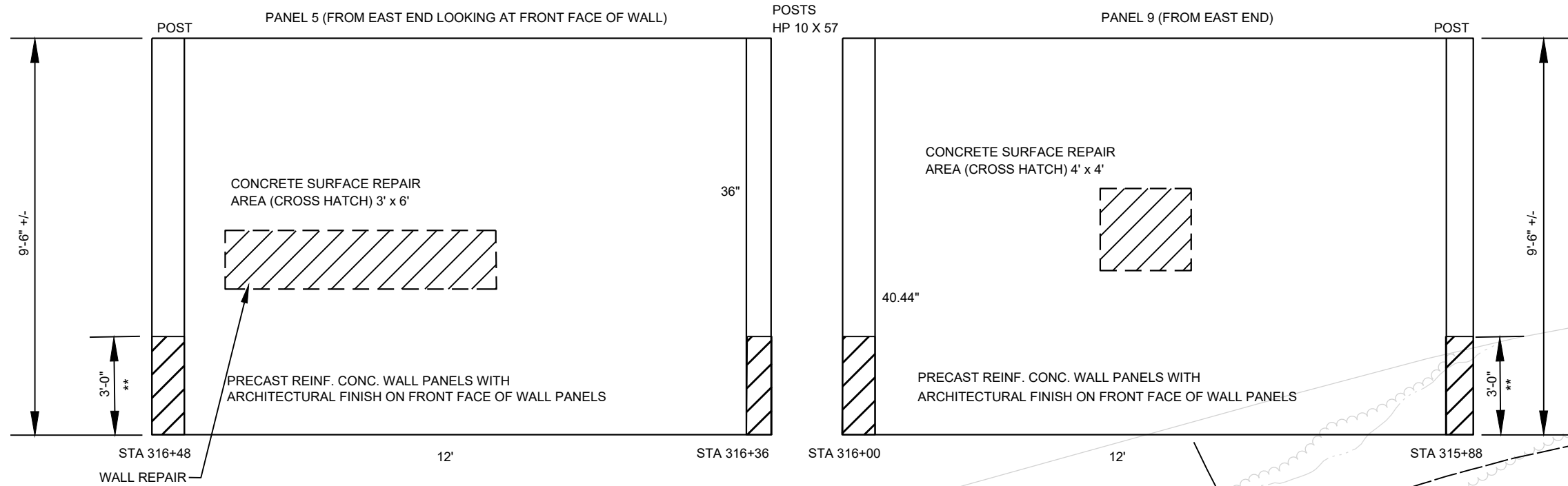
PARTIAL WALL ELEVATION
LOOKING AT F.F. OF WALL



8

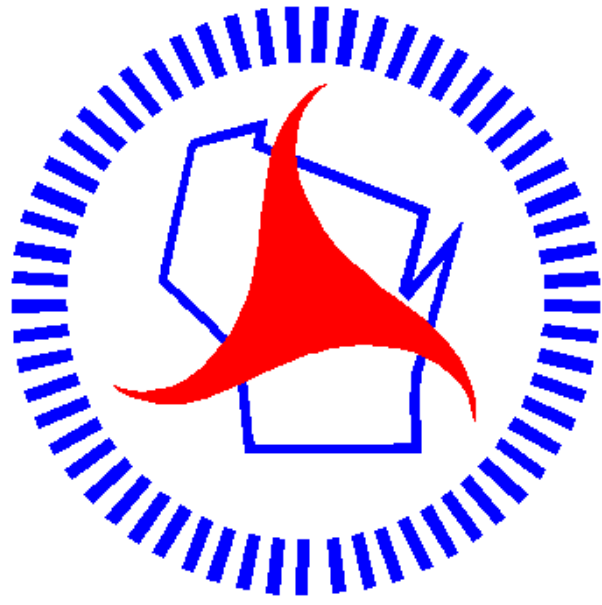
8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		RW-66-1 RW-66-2	
DRAWN BY	PAR	PLANS CK'D	SWF
WALL REPAIR 2		SHEET 2 OF 3 193	



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		RW-66-1 RW-66-2	
DRAWN BY		PLANS CK'D	
WALL REPAIR 3		SHEET 3 OF 3 194	

Notes



Wisconsin Department of Transportation

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