WIS

MAY 2018

PROJECT ID: 6380-04-77

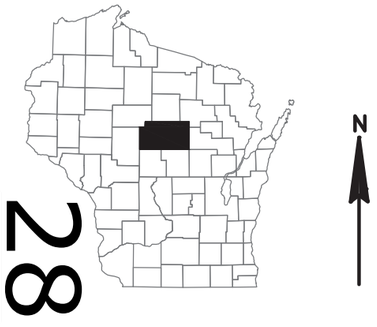
WITH: N/A

COUNTY: MARATHON

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 = 304



28

N

DESIGN DESIGNATION		SOUTH ST - FUR FOOD RD	FUR FOOD RD- STH 29
A.A.D.T.	(2018) =	7,200-8,900	3,200-4,500
A.A.D.T.	(2038) =	8,600-9,800	3,700-5,000
D.H.V.	(2038) =	912-1,039	392-530
D.D.	=	60/40	60/40
T.	=	26.7%	26.7%
DESIGN SPEED	=	35-45 MPH	60 MPH
ESALS	(2038) =	1,000,000	1,000,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STRATFORD-GOODRICH

SOUTH STREET to STH 29

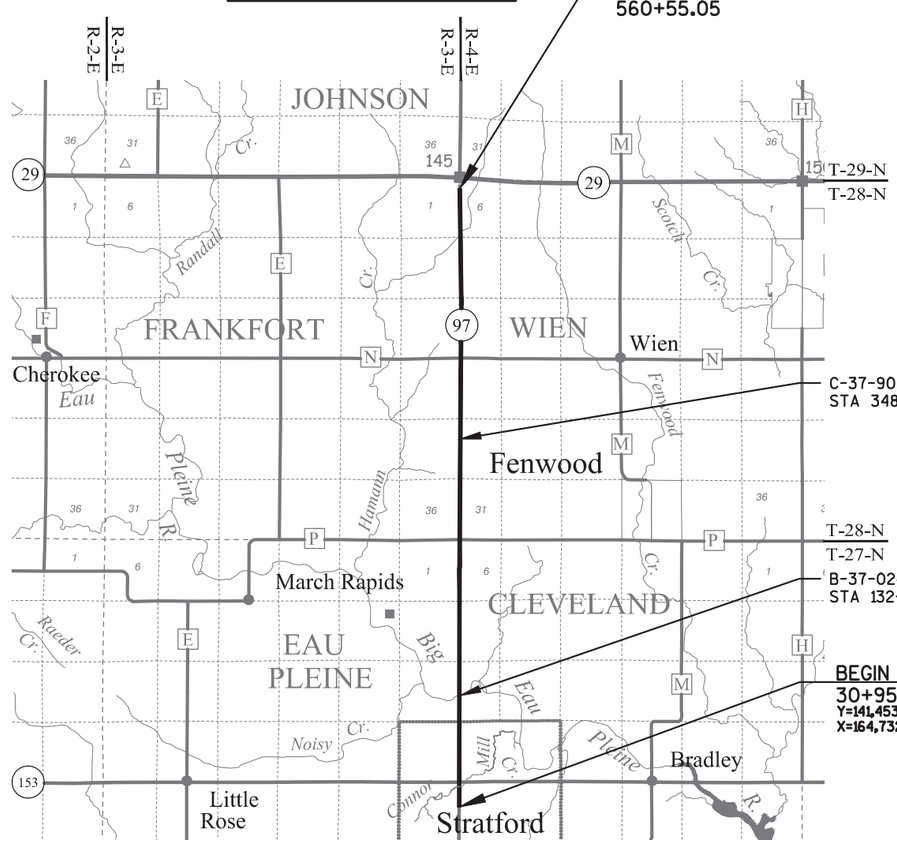
STH 97

MARATHON COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6380-04-77	WISC 2018253	1

STATE PROJECT NUMBER
6380-04-77

END PROJECT
560+55.05



LAYOUT
SCALE 0 2.5 MILES

TOTAL NET LENGTH OF CENTERLINE = 10.030 MI

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MARATHON COUNTY (NAD 83), 2011 ADJUSTMENT.

ALL ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), 2011 ADJUSTMENT.

ORIGINAL PLANS PREPARED BY

emcs.inc

500 North 17th Avenue
Wausau, WI 54401
715.845.1081 Fax 715.845.1099

WISCONSIN
STEPHANIE G. CHRISTENSEN
E-35808
WAUSAU, WI
PROFESSIONAL ENGINEER

11-22-2017 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	EMCS, INC.
Designer	EMCS, INC.
Project Manager	FORREST VAN ASTEN
Regional Examiner	CHERYL SIMON
Regional Supervisor	ROBIN STAFFORD

APPROVED FOR THE DEPARTMENT

DATE: 11/27/2017 (Signature)

E

GENERAL NOTES

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

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EXISTING RIGHT-OF-WAY IS APPROXIMATE AND IS BASED ON AVAILABLE RIGHT-OF-WAY PLATS, EXCEPT IN AREAS COVERED BY THE TRANSPORTATION PLAT 6380-04-20.

AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO: T015(7), CONSTRUCTION YEAR: 1967
PROJECT NO: 0037-04-11/12, CONSTRUCTION YEAR: 1981
PROJECT NO: 6380-04-71/72/74, CONSTRUCTION YEAR: 1995
PROJECT NO: 6380-05-71, CONSTRUCTION YEAR: 1996
PROJECT NO: 6380-04-75, CONSTRUCTION YEAR: 1998
PROJECT NO: 6380-00-60, CONSTRUCTION YEAR: 2001
PROJECT NO: 6380-03-60, CONSTRUCTION YEAR: 2010

PAVEMENT BORINGS

LOCATION (STA)	OFFSET	HMA PAVEMENT (INCH)
94+05	7' RT	6.00
109+78	13' LT	6.00
124+97	20' RT	5.00
140+16	8' RT	4.50
155+35	7' RT	6.00
171+62	15' LT	6.00
187+45	4' RT	5.00
202+75	10' LT	5.00
218+14	1' RT	5.25
233+53	10' LT	5.50
249+05	7' RT	6.00
264+52	0' RT	5.25
280+21	6' RT	5.00
295+14	5' RT	5.50
311+09	6' RT	6.00
326+53	9' LT	4.50
342+17	3' RT	5.50
357+61	3' RT	5.00
373+11	5' RT	6.00
388+31	15' LT	4.75
404+04	6' RT	7.00
419+61	5' LT	4.75
429+65	15' RT	5.25
435+18	1' LT	5.00
450+68	12' LT	5.00
481+50	11' LT	4.50
497+05	2' LT	5.50
512+72	8' RT	5.00
524+47	5' LT	5.50
543+87	6' RT	3.25
559+11	3' RT	5.25

ALL LOCATIONS AND OFFSETS ARE APPROXIMATE

UTILITIES

COMMUNICATIONS

CENTURYLINK
ROBERT SAMPSON
1310 EAST MARY ST
OTTUMWA, WI 52501
(636) 887-5367
ROBERT.SAMPSON@CENTURYLINK.COM

CHARTER COMMUNICATIONS
JESSE GRUNY
503 EAST IVES ST, SUITE 316
MARSHFIELD, WI 54449
(715) 651-5605
JESSE.GRUNY@CHARTERCOM.COM

FRONTIER COMMUNICATIONS OF WI LLS
CAL KLADE
521 4TH ST
WAUSAU, WI 54403
(715) 573-2110
CALVIN.KLADE@FTR.COM

ELECTRIC

VILLAGE OF STRATFORD
JERRY FRODL
265 NORTH THIRD AVE
P.O. BOX 12
STRATFORD, WI 54484-1200
(715) 687-4118
STRATFORDPUBWORKS@STRATFORDWI.COM

WISCONSIN PUBLIC SERVICE
CLAYTON VIRCKS
P.O BOX 1166
WAUSAU, WI. 54402
(715) 848-7317
CHVIRCKS@WISCONSINPUBLICSERVICE.COM

XCEL ENERGY
PAMELA DENZINE
500 N 5TH ST
ABBOTSFORD, WI 54405
(715) 737-7174
PAMELA.DENZINE@XCELENERGY.COM

ELECTRIC TRANSMISSION

ATC MANAGEMENT, INC
GERALD RHODE
801 O'KEEFE RD
P.O. BOX 6113
DE PERE, WI 54115-6113
(920) 338-6582
GRHODE@ATCLLC.COM

GAS/PETROLEUM

RYAN MIENTKE
1921 8TH ST. S.
WISCONSIN RAPIDS, WI 54495
(715) 421-7249
RYAN.MIENTKE@WE-ENERGIES.COM

MAGELLAN PIPELINE
CLAIR MADSEN
2728 PATTON RD
ROSEVILLE, MN 55113
(612) 750-1806
CLAIR.MADSEN@MAGELLANLP.COM

SEWER

STRATFORD WASTEWATER TREATMENT FACILITY
JERRY FRODL
265 NORTH THIRD AVE
P.O. BOX 12
STRATFORD, WI 54484-1200
(715) 687-4118
STRATFORDPUBWORKS@STRATFORDWI.COM

WATER

VILLAGE OF STRATFORD
JERRY FRODL
265 NORTH THIRD AVE
P.O. BOX 12
STRATFORD, WI 54484-1200
(715) 687-4118
STRATFORDPUBWORKS@STRATFORDWI.COM

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

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL
PAVING DETAILS
PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC SIGNALS
TRAFFIC CONTROL

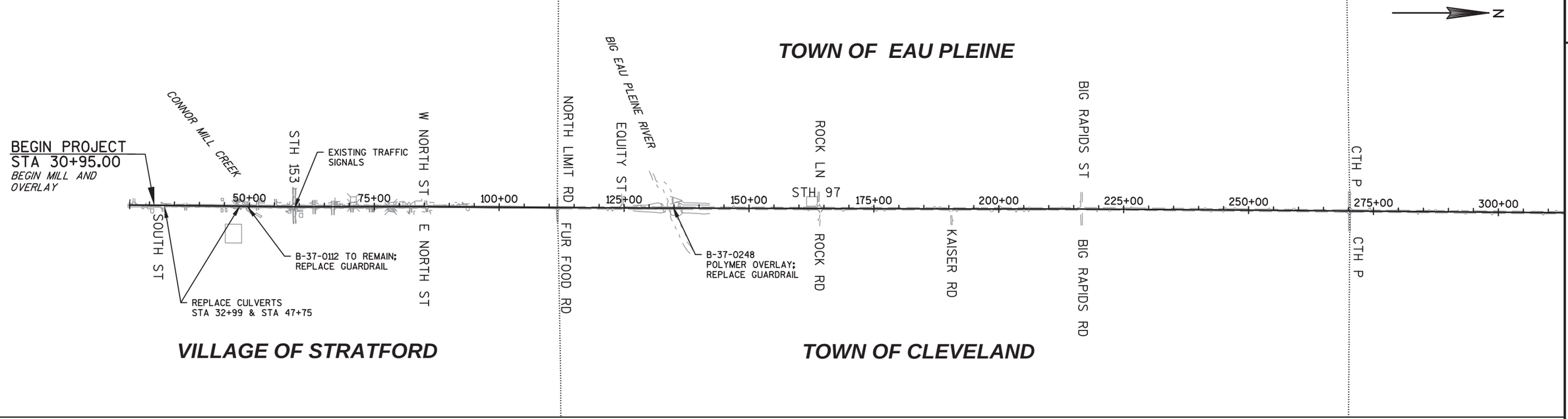
OTHER CONTACTS

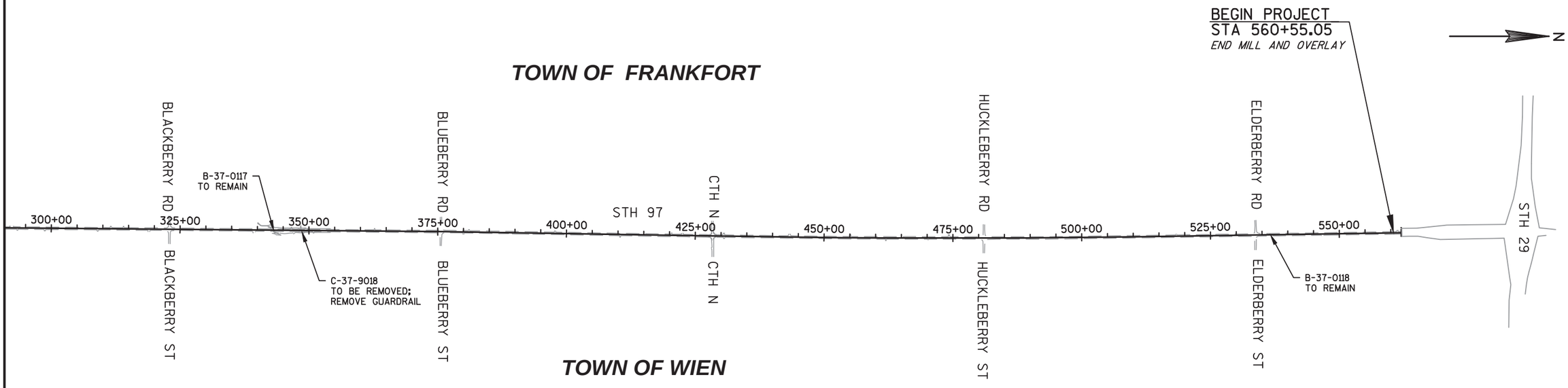
DNR LIAISON

JON SIMONSEN
DNR SERVICE CENTER
107 SUTLIFFE AVENUE
RHINELANDER, WI 54501
(715) 367-1936
JONAHATHAN.SIMONSEN@WISCONSIN.GOV

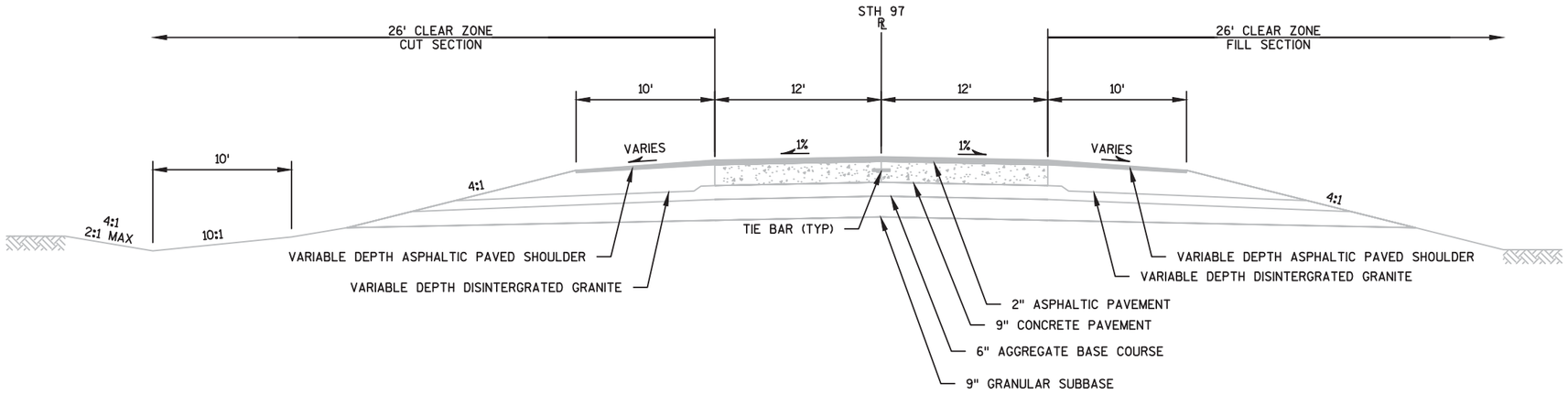
US ARMY CORPS OF ENGINEERS

ERIC NORTON
1314 CONTRACTORS BLVD
PLOVER, WI 54467
(715) 345-7911
ERIC.M.NORTON@USACE.ARMY.MIL

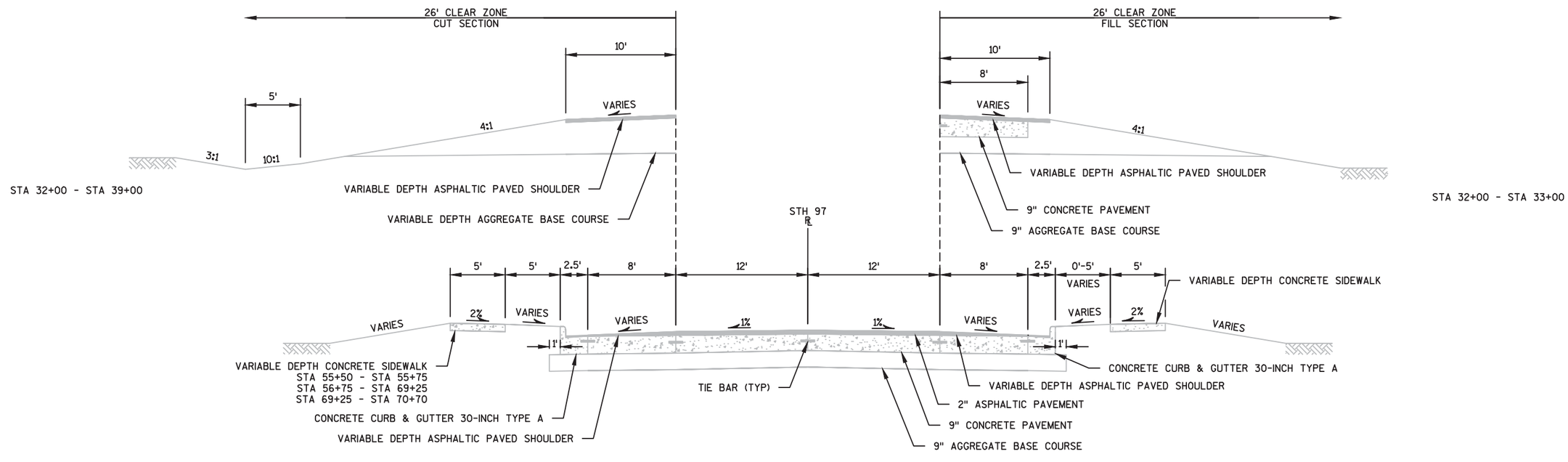




PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PROJECT OVERVIEW	SHEET 3	E



TYPICAL EXISTING SECTION
STH 97
STA 30+95 - STA 32+00



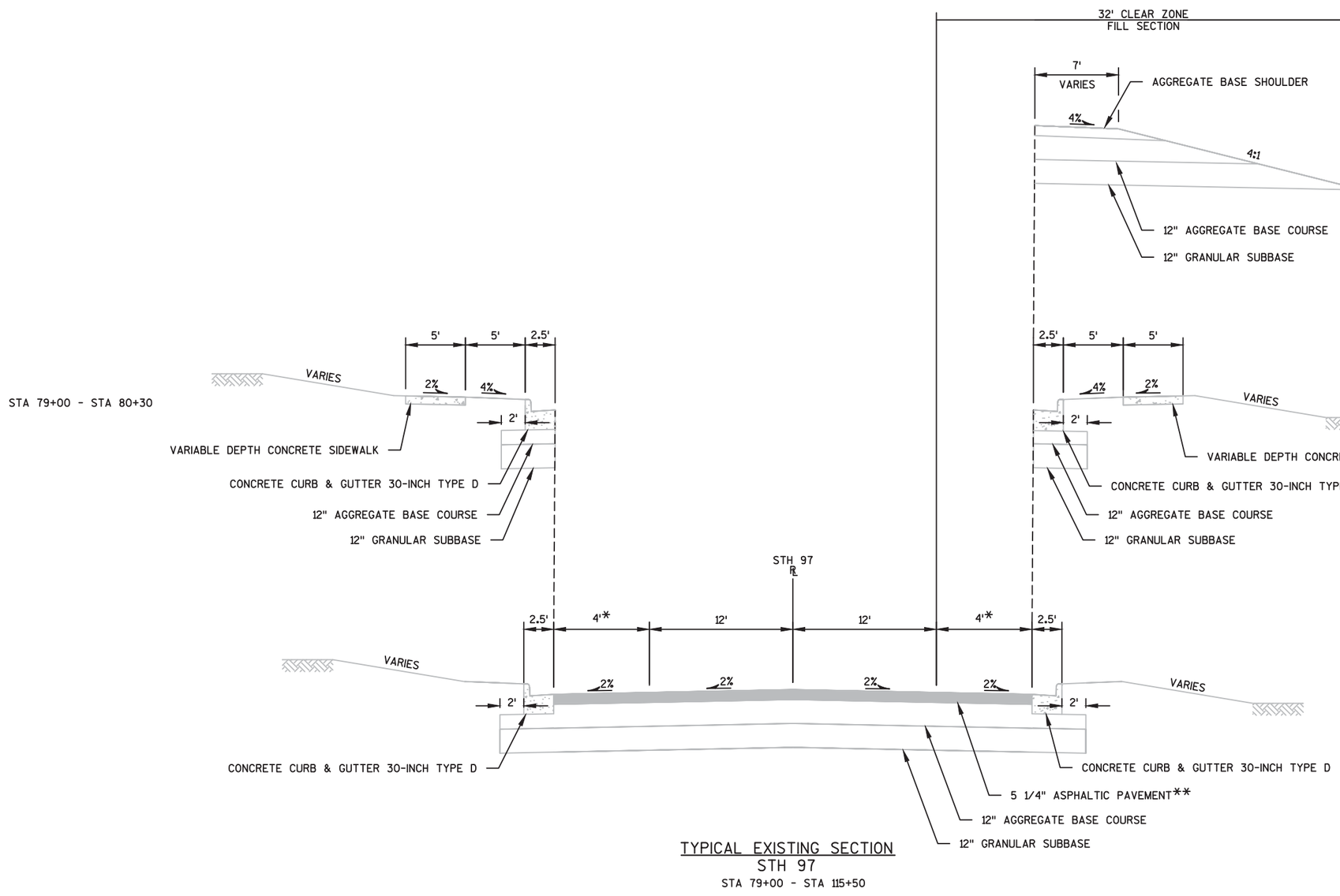
TYPICAL EXISTING SECTION
STH 97
STA 32+00 - STA 79+00*

NOTES
*THE CONCRETE PAVEMENT HAS NO ASPHALTIC PAVEMENT OVERLAY FROM STA 58+12 TO STA 59+82 THROUGH THE STH 153 INTERSECTION.

UNDERLYING CONCRETE HAS CROSS SLOPE OF 1% ON TRAVEL LANES AND 1.5% ON SHOULDERS.

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET 4	E

2



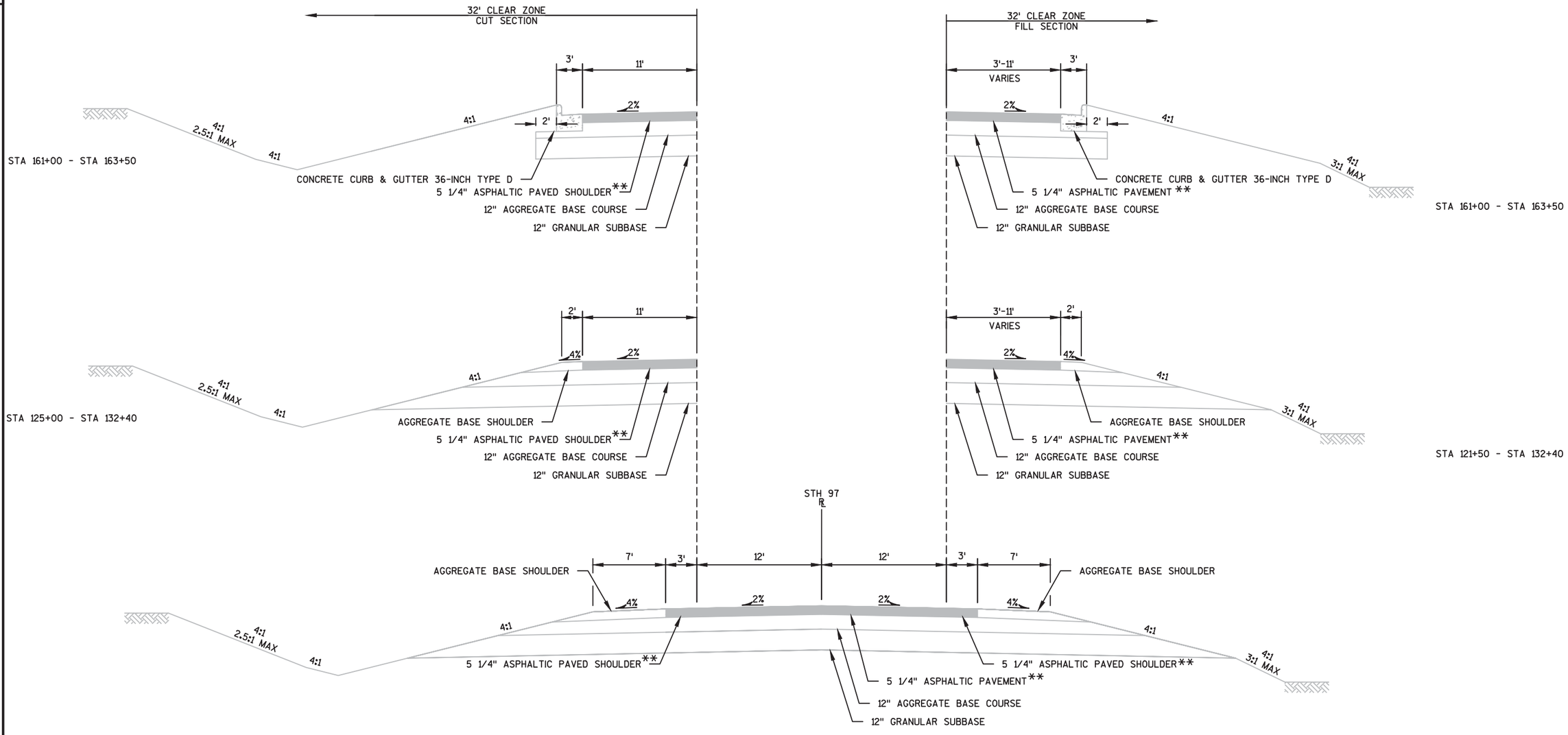
TYPICAL EXISTING SECTION
STH 97
STA 79+00 - STA 115+50

NOTES
*SHOULDER IS 8' WIDE FROM STA 79+00 TO STA 85+50.

**AVERAGE DEPTH BASED ON PAVEMENT BORINGS (SEE GENERAL NOTES).

PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET 5	E

2



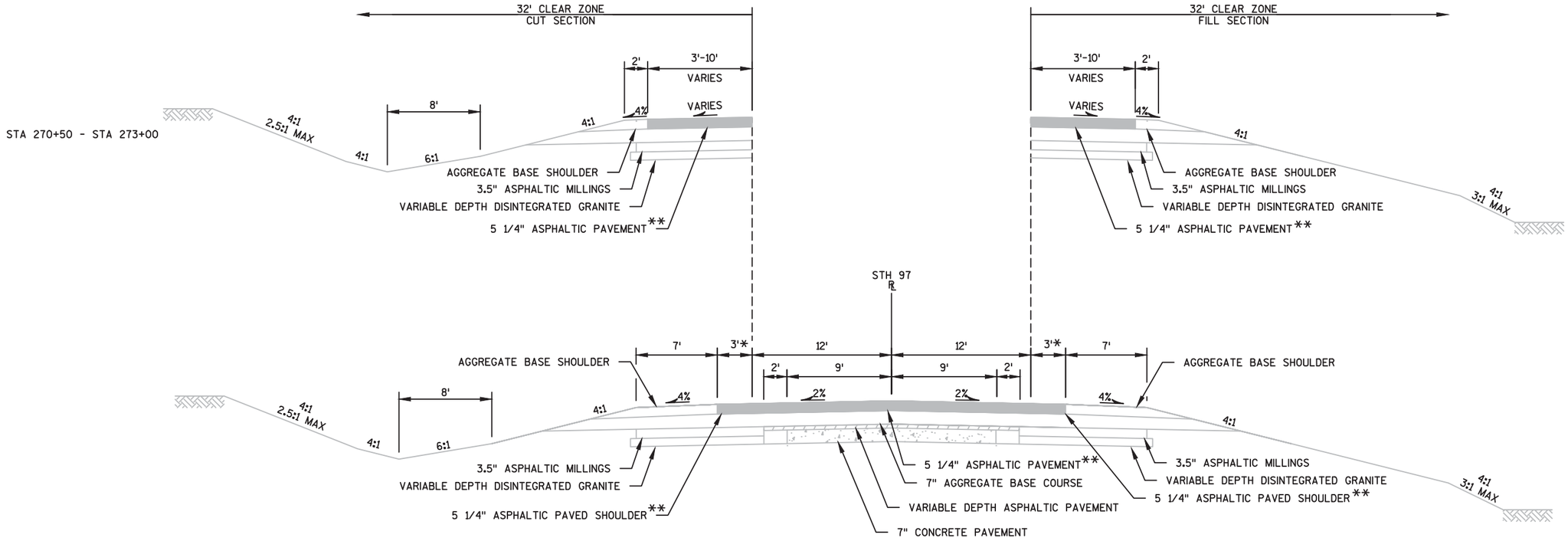
TYPICAL EXISTING SECTION
STH 97

STA 115+50 - STA 170+00
STA 213+80 - STA 224+20
STA 426+00 - STA 441+50

NOTE
** AVERAGE DEPTH BASED ON PAVEMENT BORINGS (SEE GENERAL NOTES).

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET 6	E

2

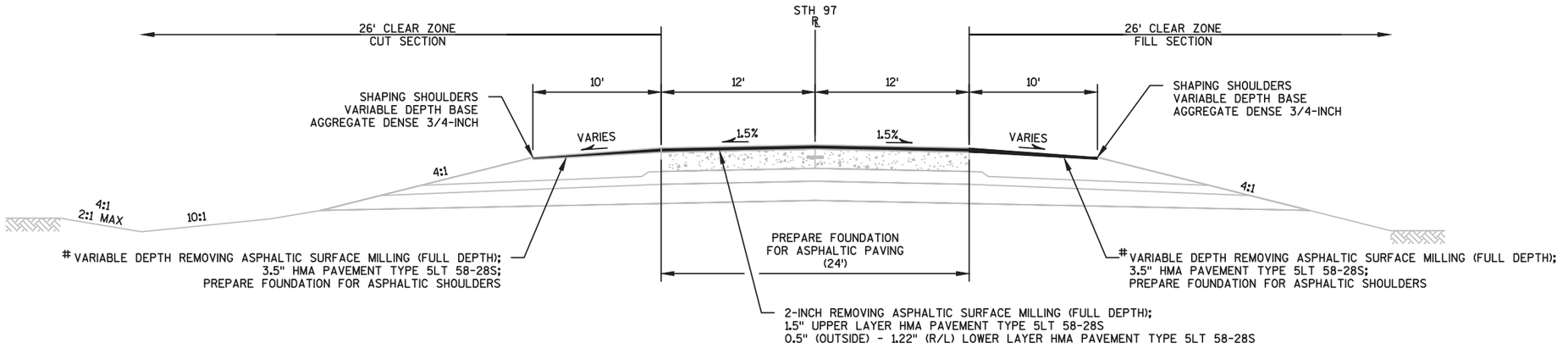


TYPICAL EXISTING SECTION
STH 97

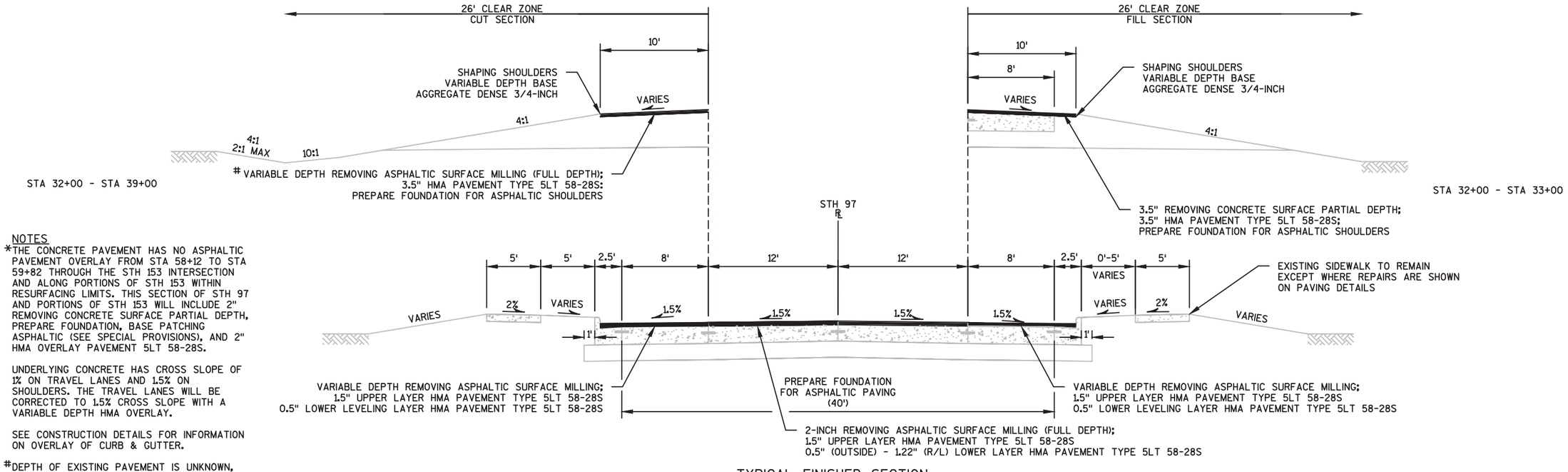
STA 170+00 - STA 213+80
STA 224+20 - STA 426+00
STA 441+50 - STA 560+55.05

NOTES
*SHOULDERS WIDEN FROM 3' TO 10' FROM STA 347+50 TO STA 349+75.

** AVERAGE DEPTH BASED ON PAVEMENT BORINGS (SEE GENERAL NOTES).



TYPICAL FINISHED SECTION
STH 97
STA 30+95 - STA 32+00



TYPICAL FINISHED SECTION
STH 97
STA 32+00 - STA 79+00*

NOTES

*THE CONCRETE PAVEMENT HAS NO ASPHALTIC PAVEMENT OVERLAY FROM STA 58+12 TO STA 59+82 THROUGH THE STH 153 INTERSECTION AND ALONG PORTIONS OF STH 153 WITHIN RESURFACING LIMITS. THIS SECTION OF STH 97 AND PORTIONS OF STH 153 WILL INCLUDE 2" REMOVING CONCRETE SURFACE PARTIAL DEPTH, PREPARE FOUNDATION, BASE PATCHING ASPHALTIC (SEE SPECIAL PROVISIONS), AND 2" HMA OVERLAY PAVEMENT 5LT 58-28S.

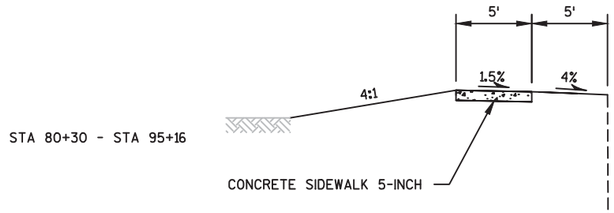
UNDERLYING CONCRETE HAS CROSS SLOPE OF 1% ON TRAVEL LANES AND 1.5% ON SHOULDERS. THE TRAVEL LANES WILL BE CORRECTED TO 1.5% CROSS SLOPE WITH A VARIABLE DEPTH HMA OVERLAY.

SEE CONSTRUCTION DETAILS FOR INFORMATION ON OVERLAY OF CURB & GUTTER.

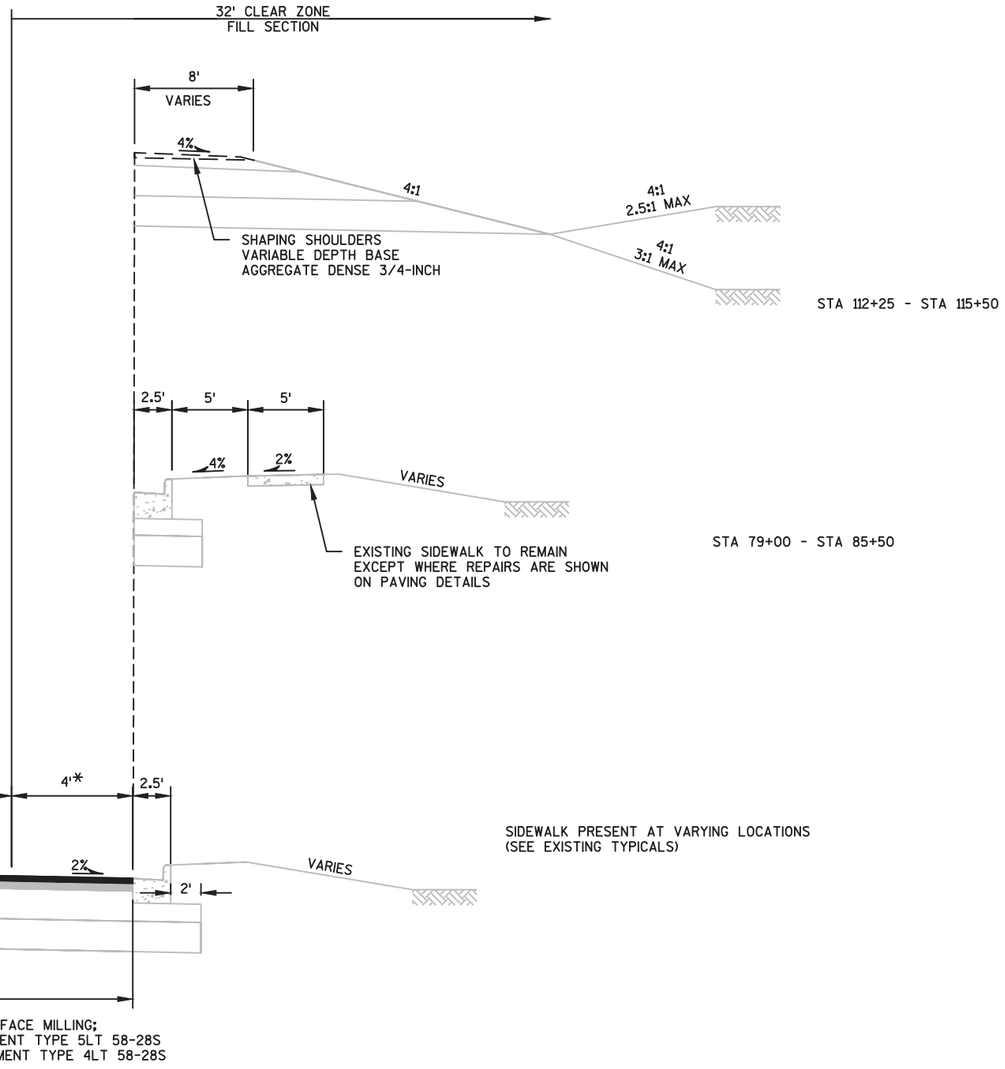
#DEPTH OF EXISTING PAVEMENT IS UNKNOWN, MILL EXISTING ASPHALTIC SHOULDER FULL DEPTH. CORRECT CROSS SLOPE TO 4% WHERE FEASIBLE OR MATCH EXISTING.

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET 8	E

2



STA 80+30 - STA 95+16



STA 79+00 - STA 85+50

STA 112+25 - STA 115+50

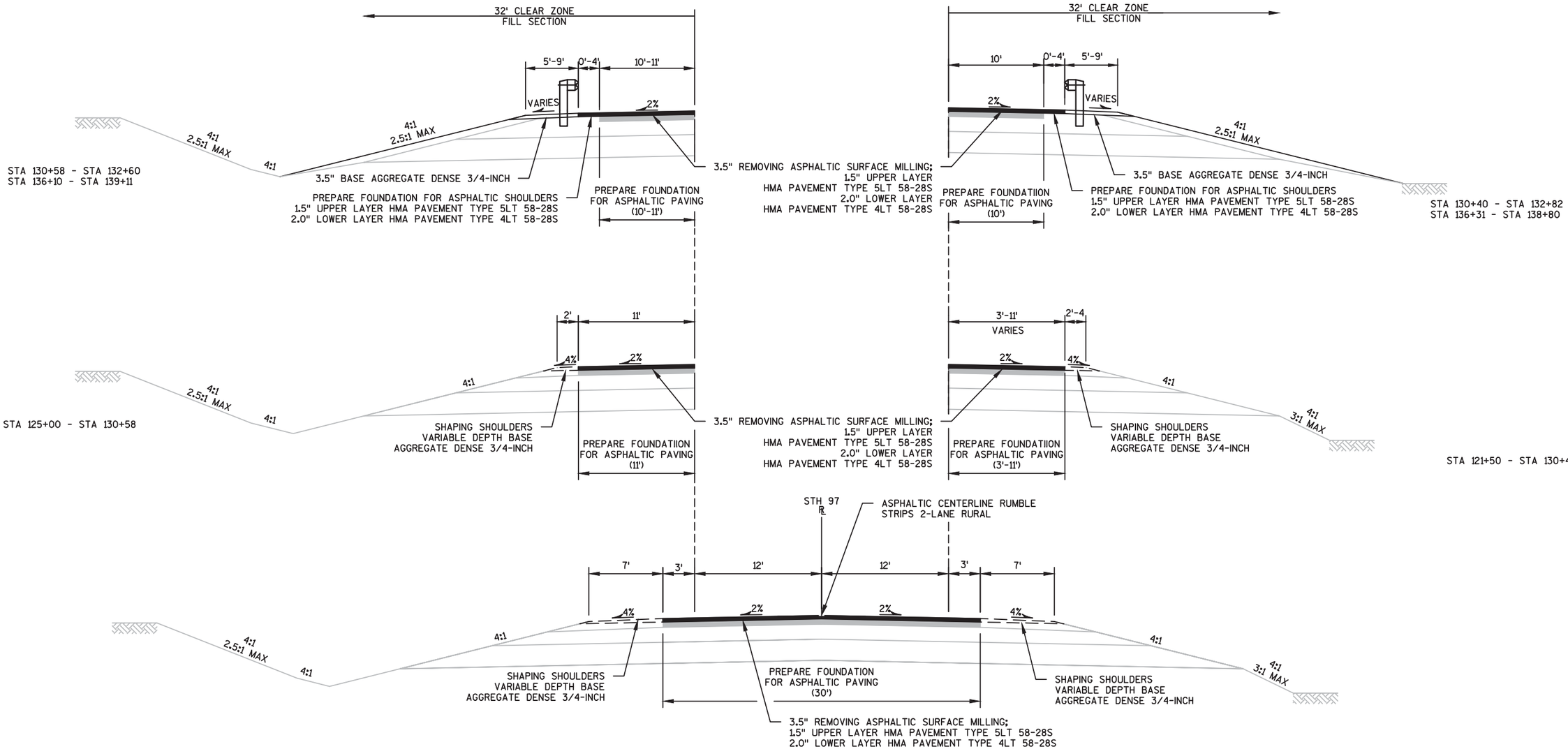
TYPICAL FINISHED SECTION
STH 97
STA 79+00 - STA 115+50

NOTES
*SHOULDER IS 8' WIDE FROM STA 79+00 TO STA 85+50.

#40' WIDE FROM STA 79+00 TO STA 85+50.

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET 9	E

2



TYPICAL FINISHED SECTION
STH 97

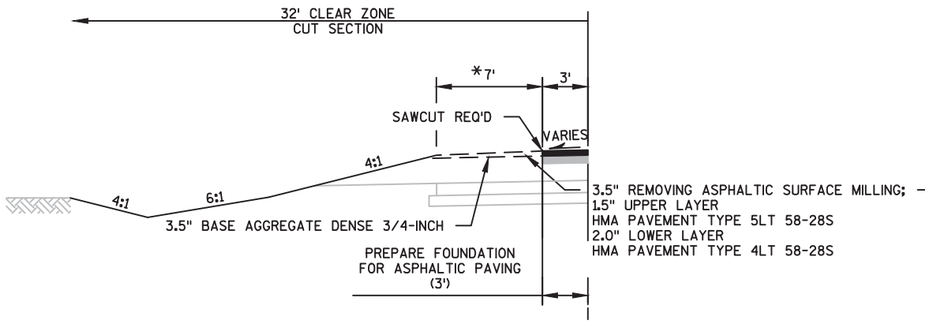
STA 115+50 - STA 170+00
STA 213+80 - STA 224+20
STA 426+00 - STA 441+50

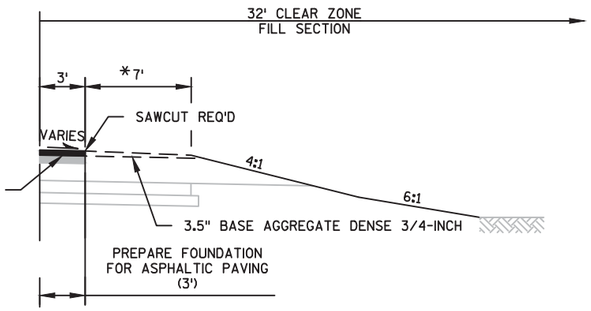
NOTES
PAVEMENT SAFETY EDGE REQUIRED FOR PAVED SHOULDERS 3 FEET OR LESS, SEE SDD 'SAFETY EDGE'.

SEE SDD'S AND CROSS SECTIONS FOR VARIABLE SLOPES AT GUARDRAIL REPLACEMENT AREAS.

2

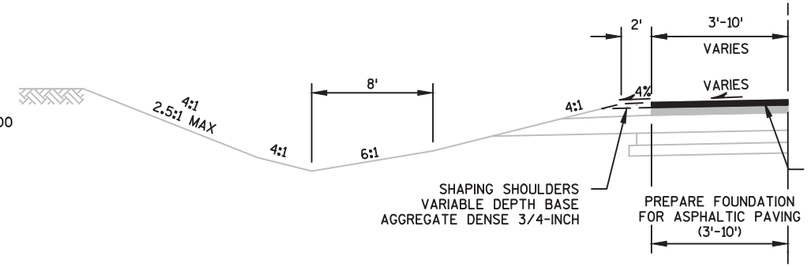
STA 347+40 - STA 349+60

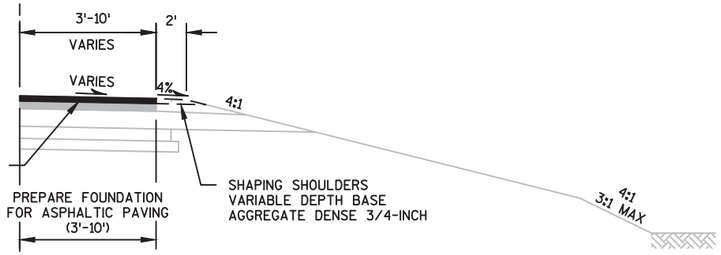




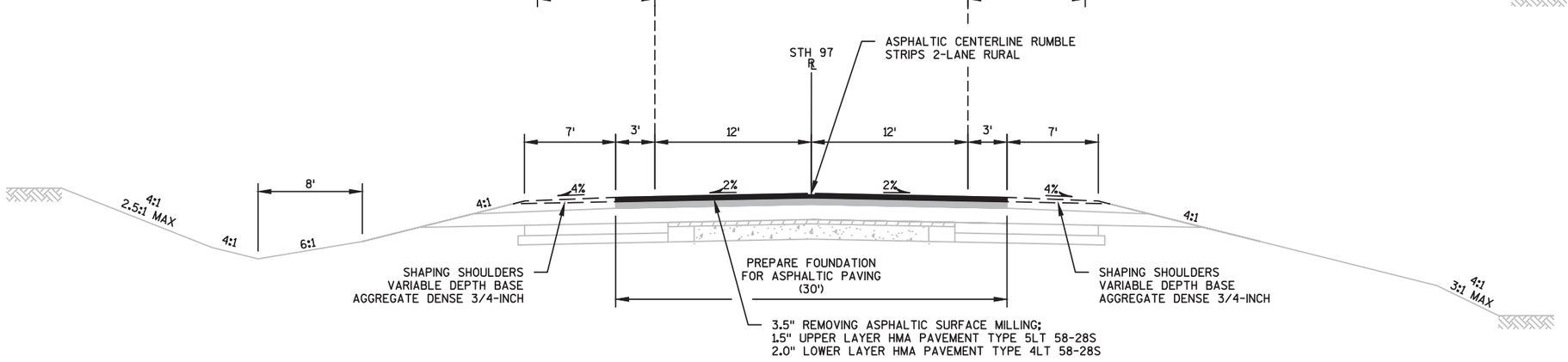
STA 347+40 - STA 349+60

STA 270+50 - STA 273+00





STA 267+25 - STA 270+00



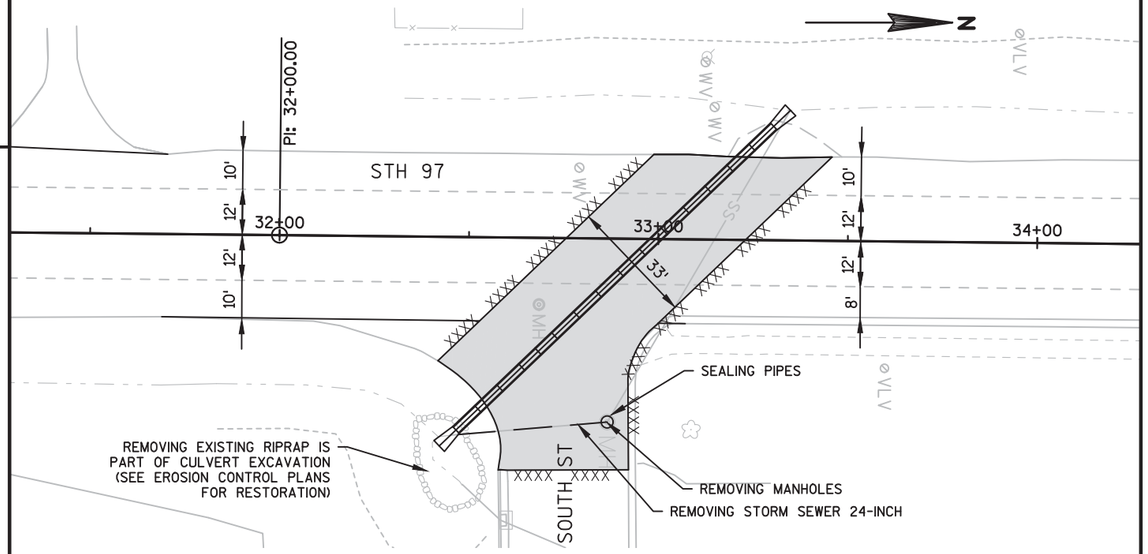
TYPICAL FINISHED SECTION
STH 97

STA 170+00 - STA 213+80
STA 224+20 - STA 426+00
STA 441+50 - STA 560+55.05

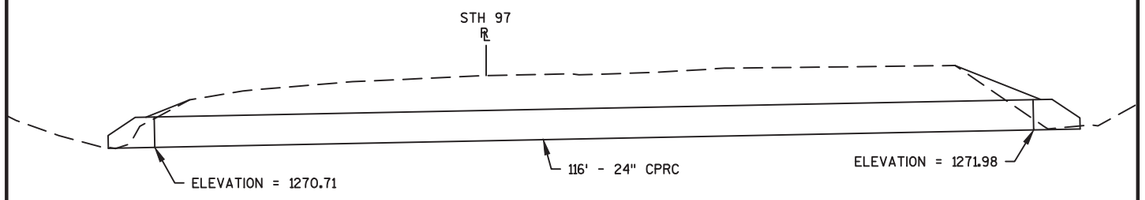
NOTES
PAVEMENT SAFETY EDGE REQUIRED FOR PAVED SHOULDERS 3 FEET OR LESS, SEE SDD 'SAFETY EDGE'.

SEE SDD'S AND CROSS SECTIONS FOR VARIABLE SLOPES AT GUARDRAIL REPLACEMENT AREAS.

*REMOVING ASPHALTIC SURFACE FULL DEPTH STA 346+21 - STA 351+00 LT AND STA 346+07 - STA 351+00 RT.



PLAN VIEW



CROSS SECTION VIEW

CUT AT A SKEW OF 46° LHF

NOTES

CULVERT REPLACEMENT WILL BE COMPLETED UNDER ONE LANE FLAGGING CONDITIONS ON STH 97. SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR ADDITIONAL DETAILS.

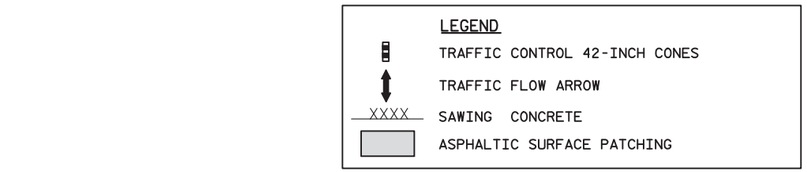
FLAGGING WILL OCCUR THROUGHOUT THE DURATION OF THE CULVERT REPLACEMENT. STH 97 IS TO BE RE-OPENED TO TWO THROUGH TRAVEL LANES WHEN FLAGGERS ARE NOT PRESENT. COMPLETE THE ENTIRE CULVERT REPLACEMENT IN ONE CONTINUOUS OPERATION UNLESS OTHERWISE APPROVED BY THE ENGINEER.

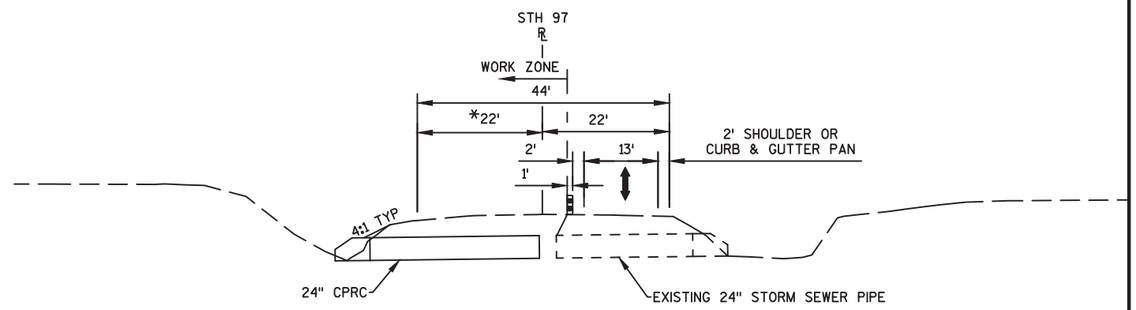
CLOSE SOUTH STREET DURING CULVERT PLACEMENT, SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

REPLACE CULVERT PRIOR TO MILL & OVERLAY OPERATIONS ON STH 97.

PATCH PAVEMENT USING 5" ASPHALTIC SURFACE PATCHING OVER 15" BASE AGGREGATE DENSE 1 1/4-INCH.

2

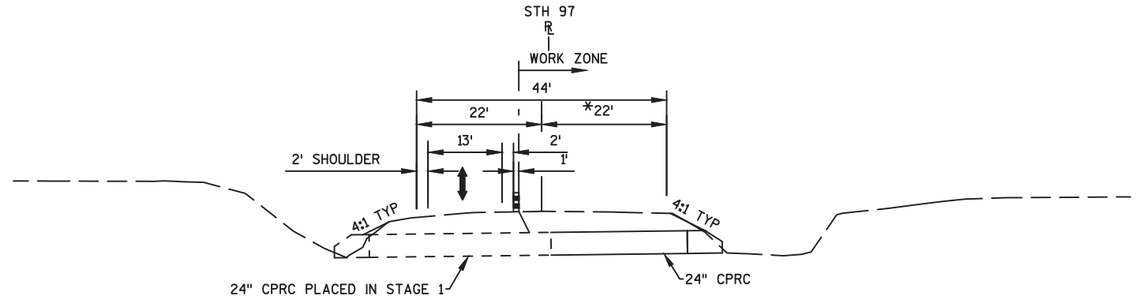




* INCLUDES CURB AND GUTTER PAN NORTH OF SOUTH STREET

STAGE 1

MAINTAIN 16' CLEAR (MIN)

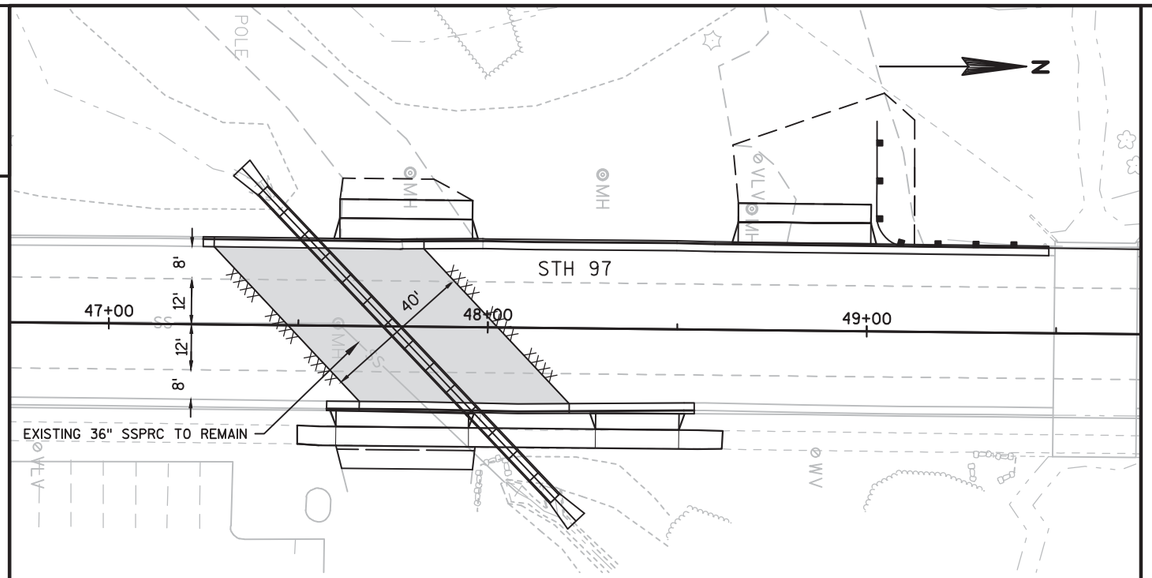


* INCLUDES CURB AND GUTTER PAN NORTH OF SOUTH STREET

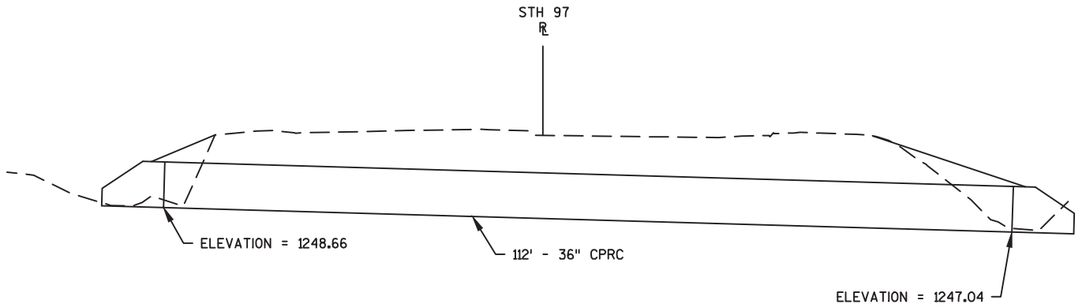
STAGE 2

MAINTAIN 16' CLEAR (MIN)

TRAFFIC CONTROL TYPICAL SECTION FOR CULVERT REPLACEMENT



PLAN VIEW



CROSS SECTION VIEW

CUT AT A SKEW OF 44° RHF

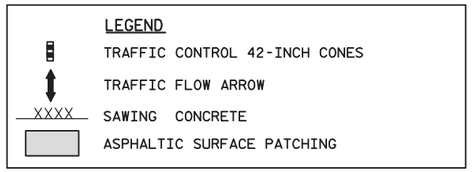
NOTES

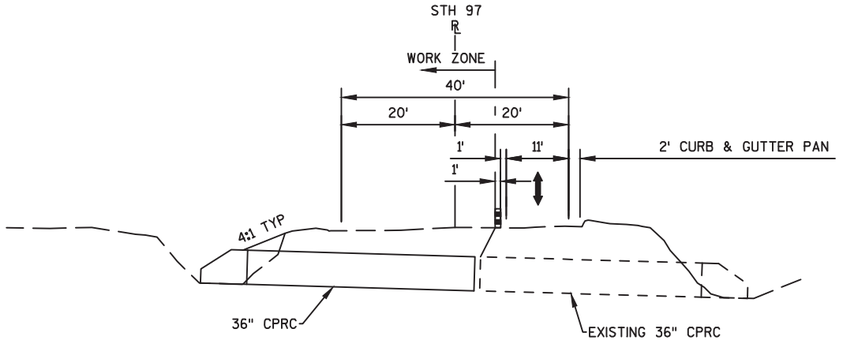
CULVERT REPLACEMENT WILL BE COMPLETED UNDER ONE LANE FLAGGING CONDITIONS ON STH 97. SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR ADDITIONAL DETAILS.

FLAGGING WILL OCCUR THROUGHOUT THE DURATION OF THE CULVERT REPLACEMENT. FLAGGING WILL OCCUR THROUGHOUT THE DURATION OF THE CULVERT REPLACEMENT. STH 97 IS TO BE RE-OPENED TO TWO THROUGH TRAVEL LANES WHEN FLAGGERS ARE NOT PRESENT. COMPLETE THE ENTIRE CULVERT REPLACEMENT IN ONE CONTINUOUS OPERATION UNLESS OTHERWISE APPROVED BY THE ENGINEER.

REPLACE CULVERT PRIOR TO MILL & OVERLAY OPERATIONS ON STH 97.

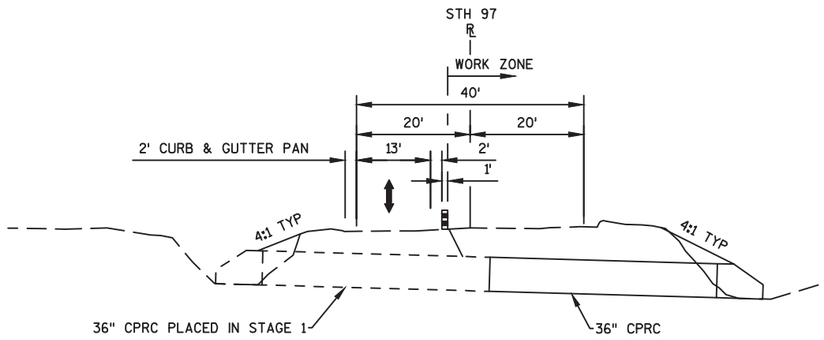
PATCH PAVEMENT USING 5" ASPHALTIC SURFACE PATCHING OVER 15" BASE AGGREGATE DENSE 1 1/4-INCH.





STAGE 1

MAINTAIN 14' CLEAR (13' RESTRICTED WIDTH POSTED)

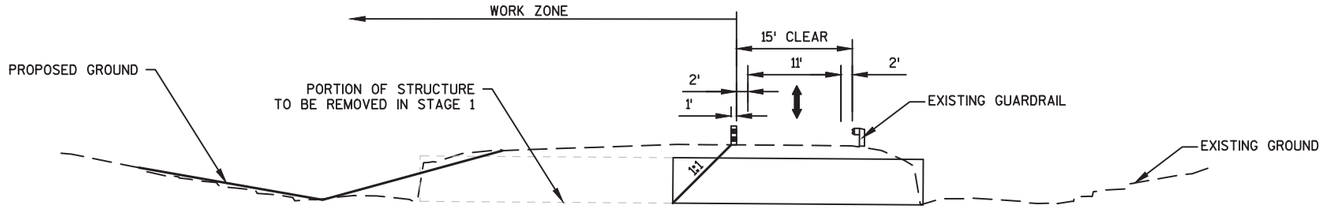


STAGE 2

MAINTAIN 16' CLEAR (MIN)

TRAFFIC CONTROL TYPICAL SECTION FOR CULVERT REPLACEMENT

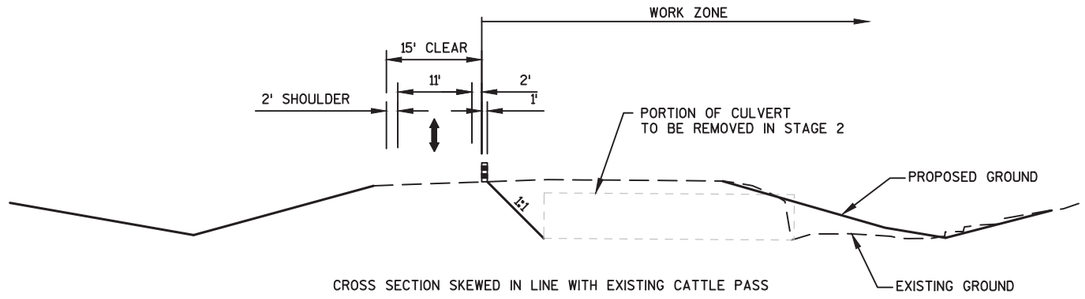
2



CROSS SECTION SKEWED IN LINE WITH EXISTING CATTLE PASS

STAGE 1

MAINTAIN 15' CLEAR (14' RESTRICTED WIDTH POSTED)



CROSS SECTION SKEWED IN LINE WITH EXISTING CATTLE PASS

STAGE 2

MAINTAIN 15' CLEAR (14' RESTRICTED WIDTH POSTED)

LEGEND

TRAFFIC CONTROL 42-INCH CONES

TRAFFIC FLOW ARROW

REMOVING OLD STRUCTURE DETAIL

C-37-9018
STA 348+58

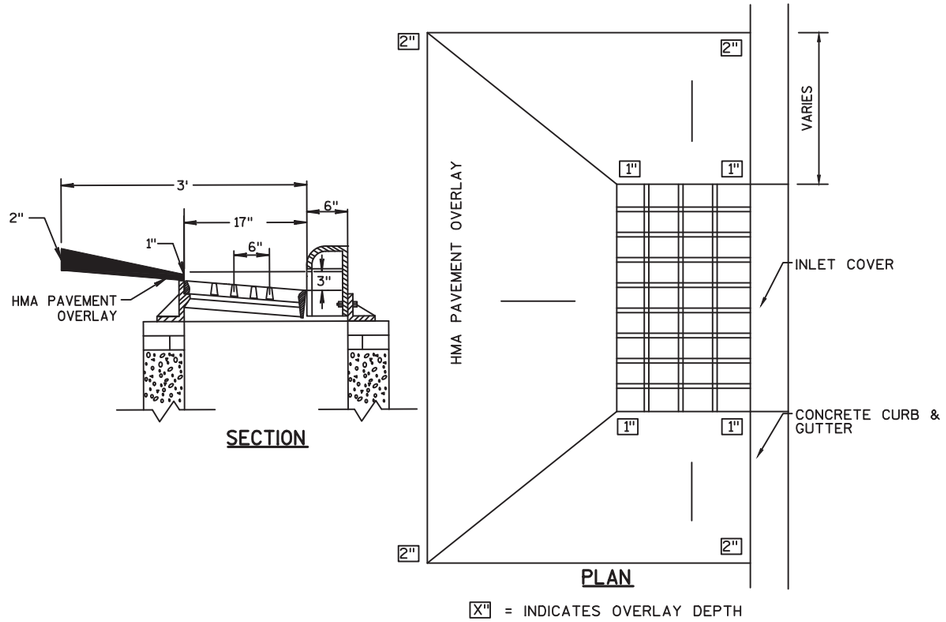
NOTES

OLD STRUCTURE REMOVAL WILL BE COMPLETED UNDER ONE LANE FLAGGING CONDITIONS ON STH 97. SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR ADDITIONAL DETAILS.

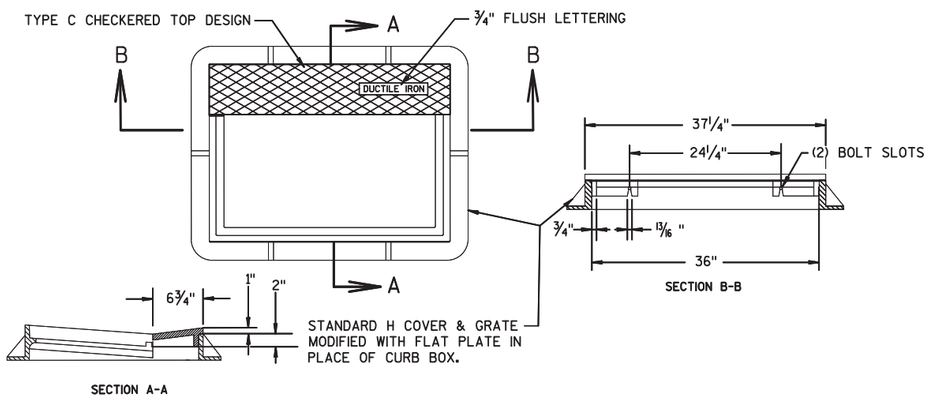
FLAGGING WILL OCCUR THROUGHOUT THE DURATION OF THE OLD STRUCTURE REMOVAL. STH 97 IS TO BE RE-OPENED TO TWO THROUGH TRAVEL LANES WHEN FLAGGERS ARE NOT PRESENT. COMPLETE THE ENTIRE CULVERT REPLACEMENT IN ONE CONTINUOUS OPERATION UNLESS OTHERWISE APPROVED BY THE ENGINEER.

REMOVE OLD STRUCTURE PRIOR TO MILL & OVERLAY OPERATIONS ON STH 97.

PATCH PAVEMENT USING 5" ASPHALTIC SURFACE PATCHING OVER 15" BASE AGGREGATE DENSE 1 1/4-INCH.

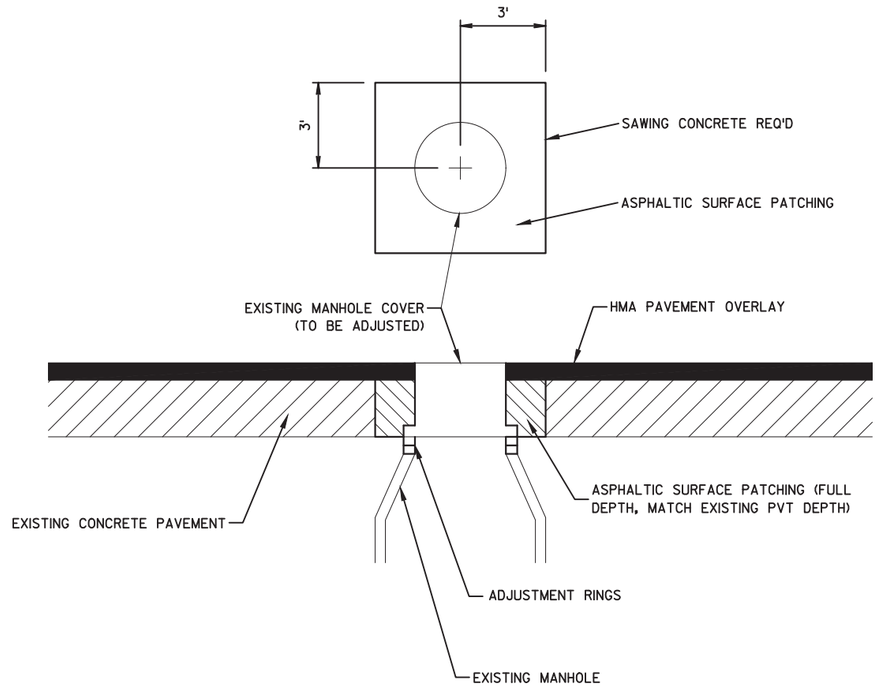


DETAIL OF PAVEMENT FLARE AT INLETS
STH 97



APPROXIMATE WT. (375 LBS.)

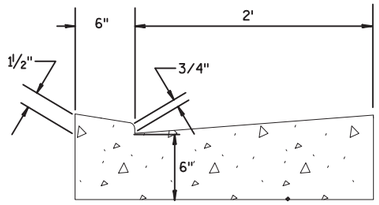
INLET COVER TYPE HD
(WITH MOUNTABLE CURB PLATE)
STA 51+25, LT



ADJUSTING MANHOLE COVERS
SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS

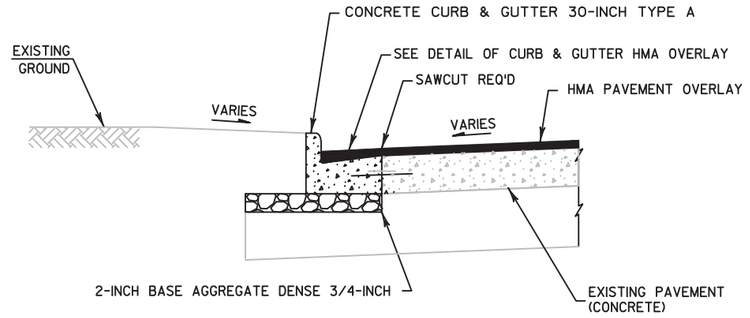
NOTES
DETAIL ALSO APPLIES TO ADJUSTING SANITARY MANHOLE COVERS EXCEPT THAT THE EXISTING CHIMNEY SEAL MAY REQUIRE ADJUSTMENT OR RE-INSTALLATION ON SANITARY MANHOLES.

THE PATCHING FOR WATER VALVES SHOULD FOLLOW A SIMILAR DETAIL EXCEPT THAT THE ANTICIPATED PAVEMENT REMOVAL AREA IS ESTIMATED AT 3' X 3'.



CONCRETE CURB & GUTTER 30-INCH WITH NO CURB HEAD OR FOR DRIVEWAYS

CONCRETE CURB & GUTTER FOR DRIVEWAYS
TO BE PAID FOR AS CONCRETE CURB & GUTTER ITEM
(FOR DETAILS NOT SHOWN, SEE SDD CONCRETE CURB,
CONCRETE CURB & GUTTER AND TIES)



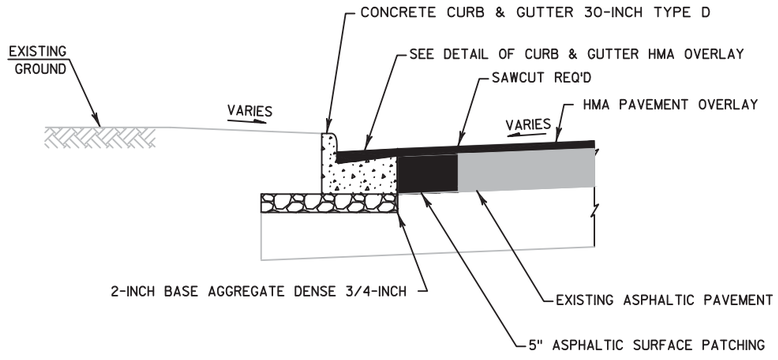
DETAIL OF CURB & GUTTER REPLACEMENT HMA OVERLAY

STH 97 & STH 153
STA 47+25 LT - STA 51+43 LT
STA 47+58 RT - STA 48+55 RT
SPOT CURB RAMP UPGRADES

NOTES
COMPLETE CURB & GUTTER REPLACEMENTS PRIOR TO MILL AND OVERLAY OF STH 97.

NO CURB HEAD PLACED IN AREAS OF GUARDRAIL, STA 49+02 LT -STA 50+60 LT.

FOR DETAILS NOT SHOWN, SEE SDD CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES.

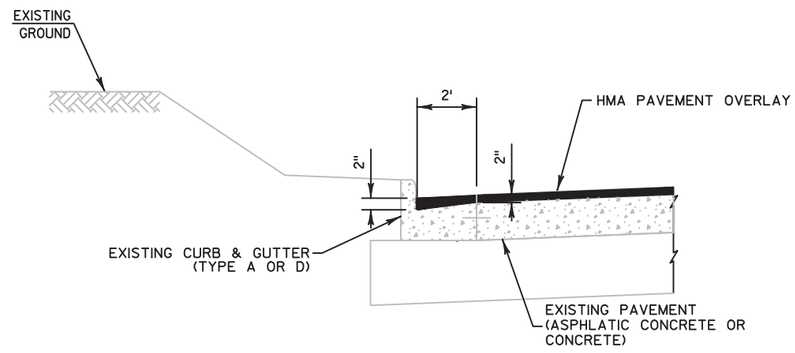


DETAIL OF CURB & GUTTER REPLACEMENT HMA OVERLAY

STH 97 & STH 153
SPOT CURB RAMP UPGRADES
SIGNAL LOOP DETECTOR UPGRADES

NOTES
COMPLETE CURB & GUTTER REPLACEMENTS PRIOR TO MILL AND OVERLAY OF STH 97.

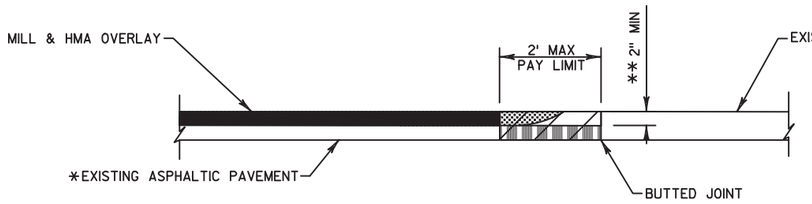
FOR DETAILS NOT SHOWN, SEE SDD CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES.



DETAIL OF CURB & GUTTER HMA OVERLAY

STH 97
(OUTSIDE OF INLET AREAS)

2



ASPHALTIC WEDGING
(FULL DEPTH REMOVAL OPTIONAL)

REMOVING ASPHALTIC SURFACE BUTT JOINTS
DO NOT REMOVE MATERIAL UNDER THIS ITEM UNTIL 24 HOURS BEFORE PAVING

REMOVING ASPHALTIC SURFACE MILLING *

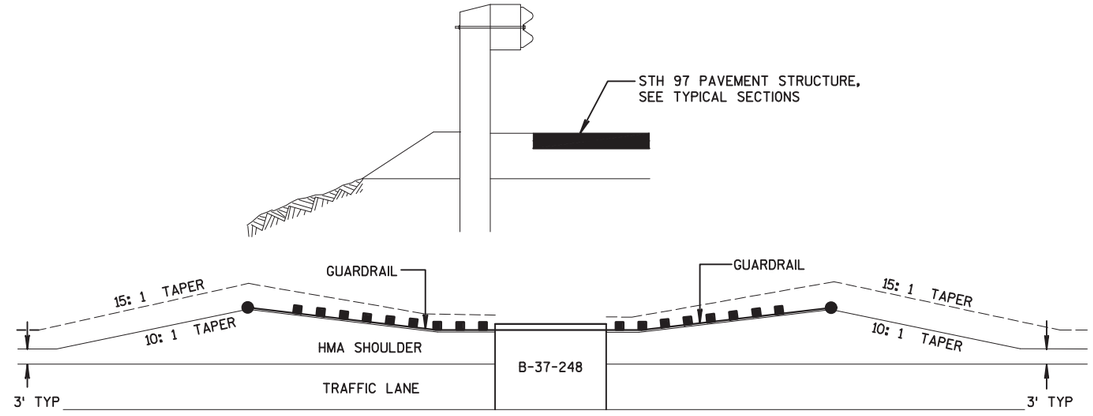
ASPHALTIC SURFACE BUTT JOINT TYPICAL SECTION DETAIL

STA 30+95 (BEGIN PROJECT)
STA 560+55.05 (END PROJECT)
STA 12'S'+05
B-37-0248 APPROACH SLABS

NOTES
THE PROPOSED MILL AND OVERLAY WIDTH OF STH 97 IS TO REMAIN CONSTANT THROUGH INTERSECTIONS, THE MILL AND OVERLAY IS NOT PROPOSED TO EXTEND ONTO THE SIDE ROADS EXCEPT AT STH 153:
- 32' - 40' THROUGH URBAN INTERSECTIONS WITH CURB & GUTTER
- 30' TYPICAL THROUGH RURAL INTERSECTIONS
- SEE TYPICAL SECTIONS FOR MORE WIDTH DETAILS.

**3.5" MINIMUM FROM STA 79+00 - STA 560+55.05.

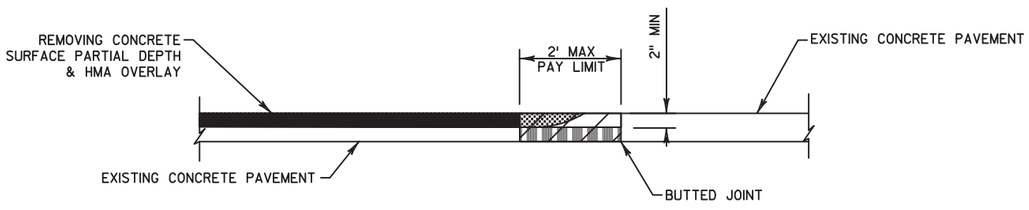
* EXISTING CONCRETE THROUGH STH 153 INTERSECTION; COMPLETE REMOVING CONCRETE SURFACE PARTIAL DEPTH THROUGH STH 153 INTERSECTION.



DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL

STA 131+17 - STA 138+04, LT
STA 130+89 - STA 137+87, RT

NOTE
SEE SDDS FOR GUARDRAIL FOR ADDITIONAL DETAILS.



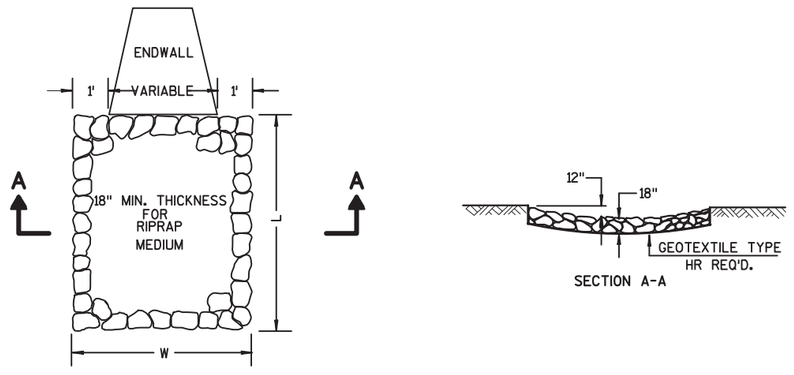
ASPHALTIC WEDGING
(FULL DEPTH REMOVAL OPTIONAL)

REMOVING PAVEMENT BUTT JOINTS
DO NOT REMOVE MATERIAL UNDER THIS ITEM UNTIL 24 HOURS BEFORE PAVING

REMOVING CONCRETE SURFACE PARTIAL DEPTH

ASPHALTIC SURFACE BUTT JOINT TYPICAL SECTION DETAIL

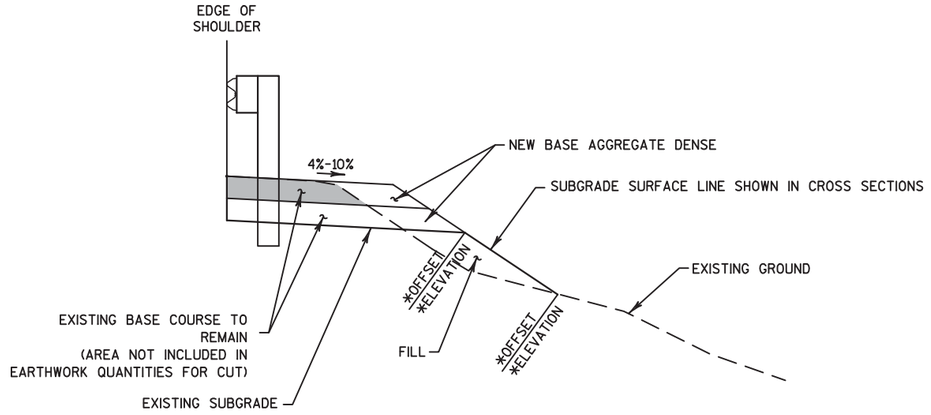
STA 7'S'+96



RIPRAP MEDIUM TREATMENT AT CULVERTS

STA 32+42, RT (15'x20')
STA 33+35, LT (6'x 15')
STA 48+23, RT (20'x20')

NOTE
SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.



SHOULDER WIDENING EARTHWORK & BASE AGGREGATE FOR GUARDRAIL DETAIL

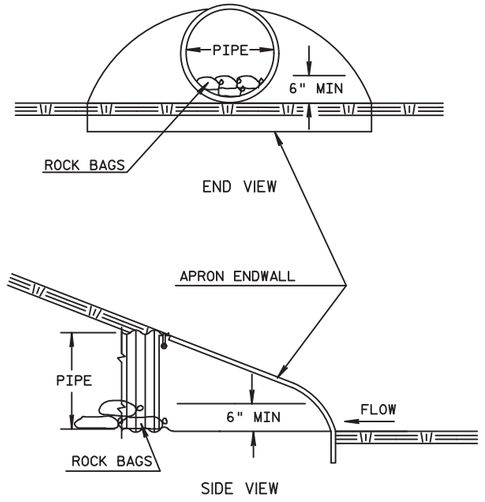
NOTES
ANY CUT AND FILL REQUIRED IS INCIDENTAL TO THE BARRIER SYSTEM GRADING SHAPING FINISHING ITEM.

* OFFSET AND ELEVATION PROVIDED TO THESE POINTS ON THE CROSS SECTIONS.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

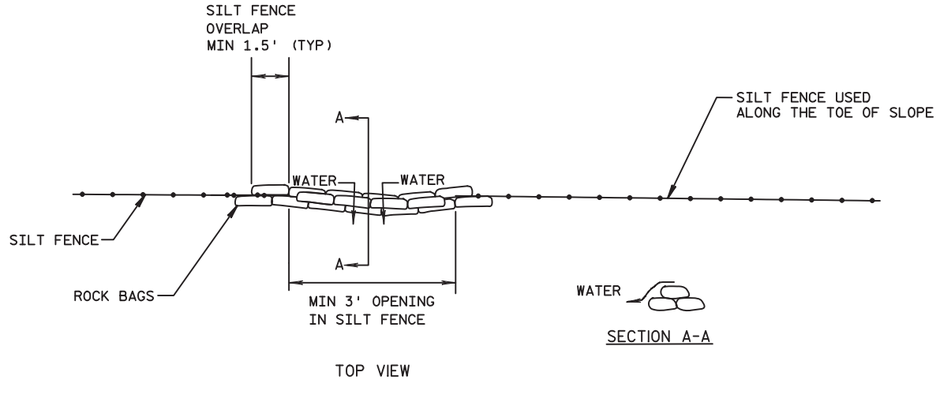
TOTAL PROJECT AREA = 157 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 42 ACRES



CULVERT PIPE CHECKS

INSTALL ON INLET END
EACH ROCK BAG PAID AS CULVERT PIPE CHECKS

NOTE
SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

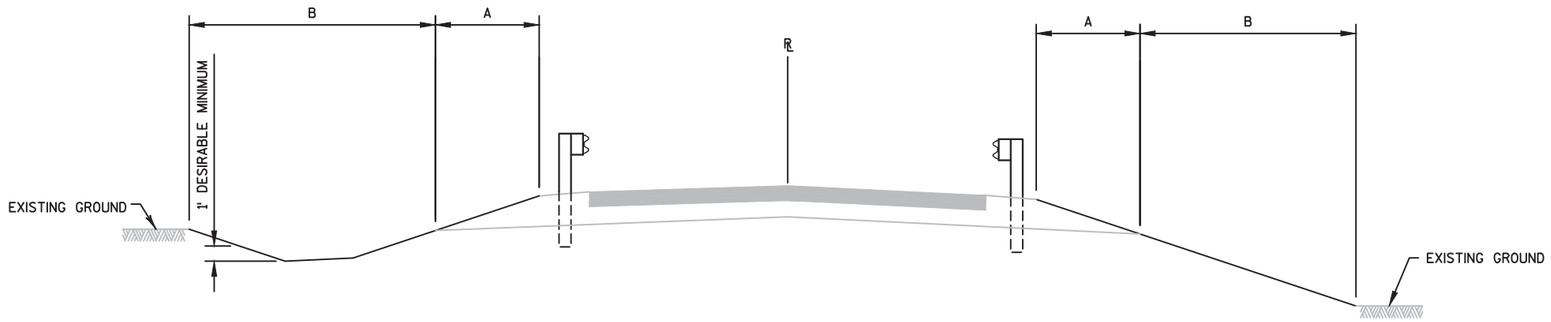


ROCK BAGS SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS

NOTE
SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

2



CUT

FILL

NOTES

A= FERTILIZER TYPE B & SEEDING MIXTURE NO. 30

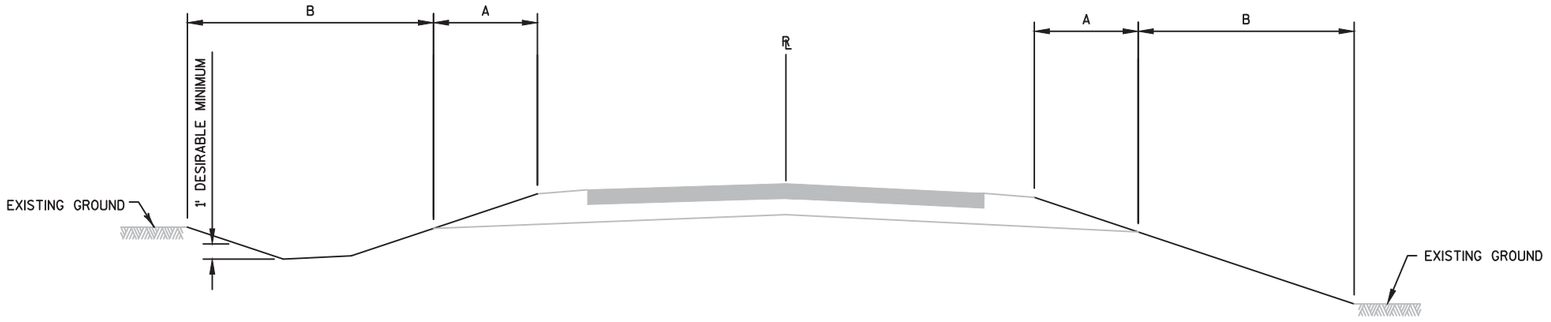
B= TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30 AND EROSION MAT CLASS I TYPE B OR EROSION MAT CLASS II TYPE C

SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION

TOPSOIL, FERTILIZER TYPE B, AND SEEDING MIXTURE NO. 30 ARE INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING ITEM

FINISHING ITEMS AT GUARDRAIL INSTALLATIONS

STH 97
B-37-112
B-37-248



CUT

FILL

NOTES

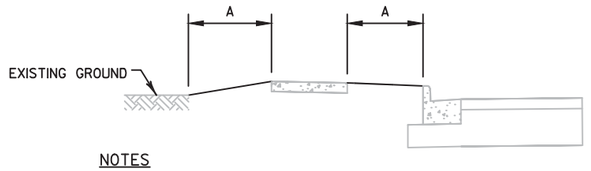
A= FERTILIZER TYPE B & SEEDING MIXTURE NO. 30

B= TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30 AND EROSION MAT CLASS I TYPE B OR EROSION MAT CLASS II TYPE C

SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION

FINISHING ITEMS AT CATTLE PASS REMOVAL

STH 97
C-37-9018
(STA 347+40 - STA 349+60)



NOTES

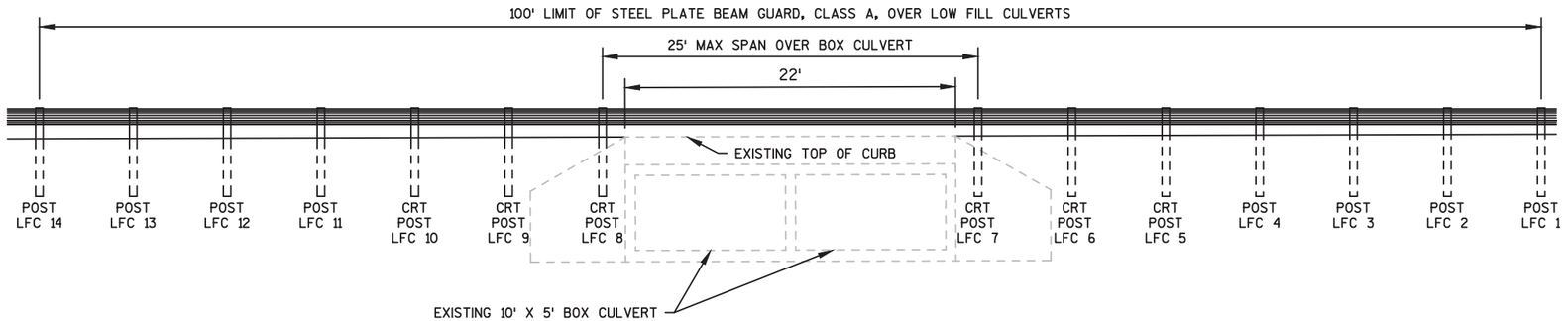
A= TOPSOIL, FERTILIZER FOR LAWN TYPE TURF, SEEDING MIXTURE NO. 40, AND EROSION MAT URBAN CLASS I TYPE A

SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION

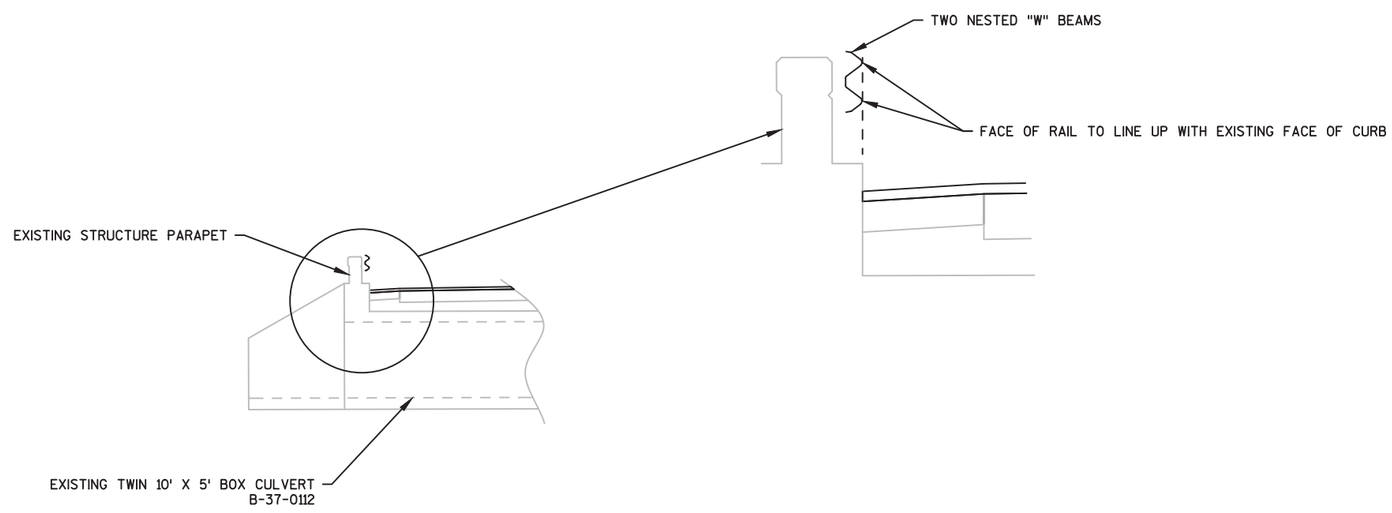
FINISHING ITEMS AT CURB RAMP UPGRADES AND NEW CONCRETE SIDEWALK

STH 97
CURB RAMP UPGRADES (VARIOUS)
STA 80+30 - STA 95+16, LT (NEW CONCRETE SIDEWALK)

2



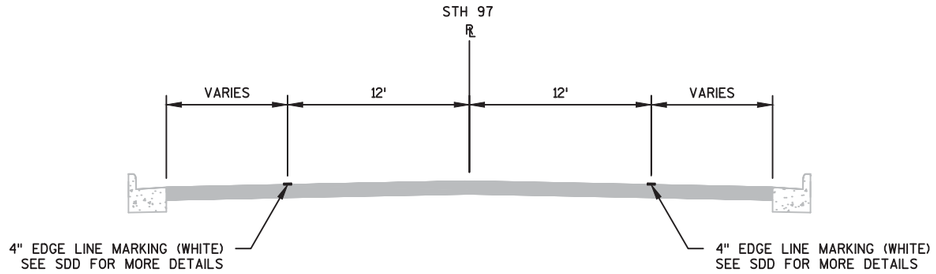
NOTE
FOR DETAILS NOT SHOWN, SEE SDD STEEL PLATE BEAM GUARD, CLASS A, OVER LOW FILL CULVERTS



STEEL PLATE BEAM GUARD, CLASS A, OVER LOW FILL CULVERTS

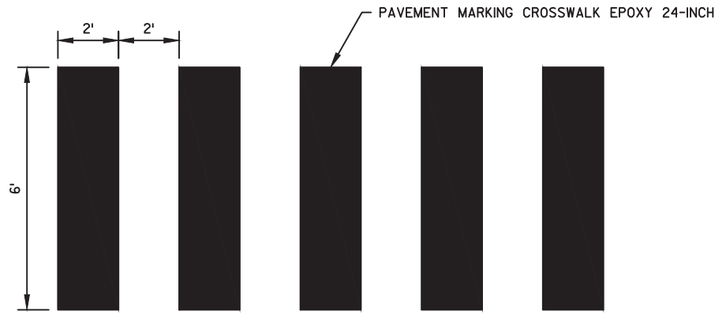
B-37-0112
STA 49+60, LT

2



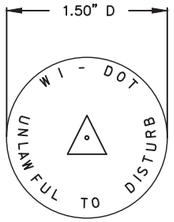
EDGE LINE MARKING
STH 97
STA 33+00 - STA 115+50

NOTE
PLACE EDGELINES THROUGH URBAN SECTIONS TO DELINEATE TRAVEL LANES.



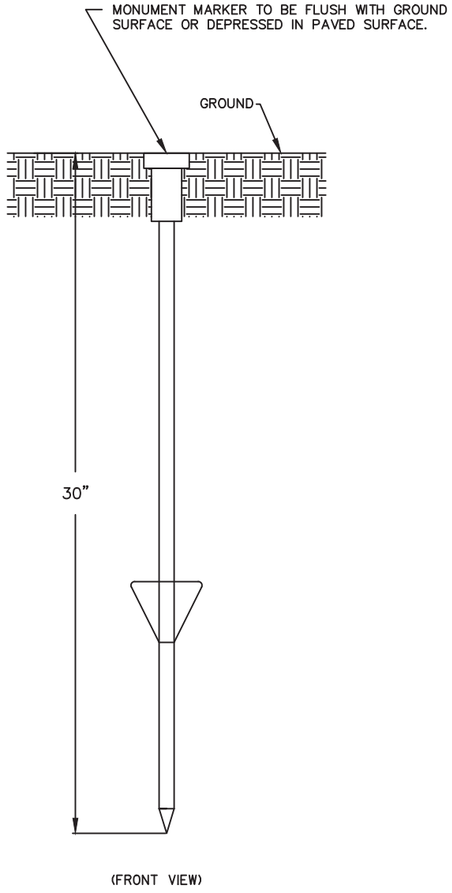
CROSSWALK PAVEMENT MARKING
STH 97
STA 75+00

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	CONSTRUCTION DETAILS	SHEET 21	E



WIS DOT MONUMENT CAP MARKER LOGO (SSDR130)

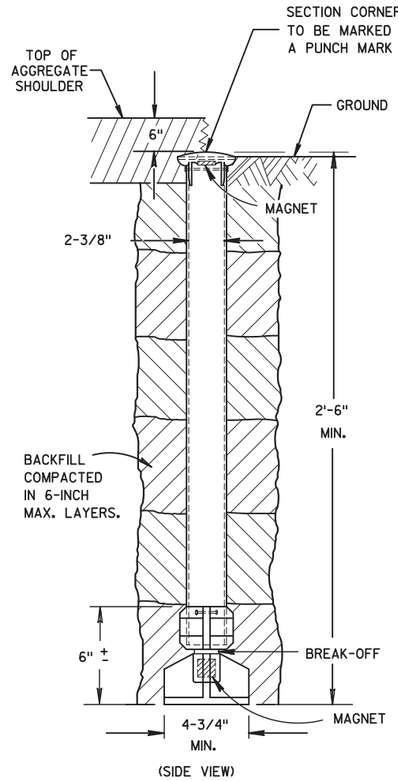
CONTRACTOR TO ORDER LANDMARK REFERENCE MONUMENTS WITH THE ABOVE STAMPING



(FRONT VIEW)

BERNSTEN DRIVABLE MONUMENT SSDR130

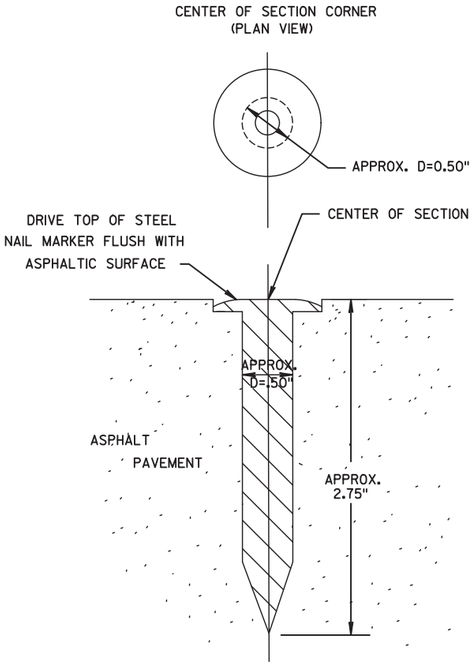
LANDMARK REFERENCE MONUMENT (TIES ONLY)



(SIDE VIEW)

OUTSIDE OF PAVEMENT

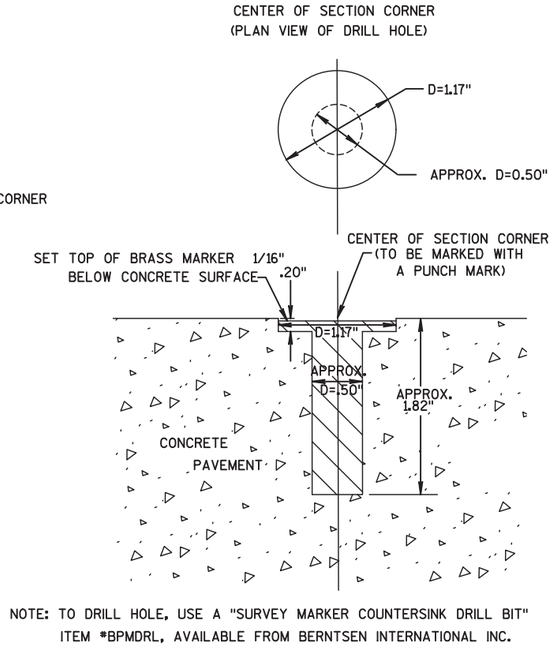
BERNTSEN A1BR30 ALUMINUM BREAK-OFF MONUMENT



(SIDE VIEW)

IN ASPHALTIC PAVEMENT

BERNTSEN SNM1 STEEL NAIL MARKER



NOTE: TO DRILL HOLE, USE A "SURVEY MARKER COUNTERSINK DRILL BIT" ITEM #BPMDRL, AVAILABLE FROM BERNTSEN INTERNATIONAL INC.

(SIDE VIEW OF DRILL HOLE)

IN CONCRETE PAVEMENT

BERNTSEN BP - 1 BRASS MARKER WITH ANCHOR PLUG

SECTION CORNER MONUMENTS

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.

LOCATE LANDMARK REFERENCE MONUMENTS OUTSIDE THE CONSTRUCTION LIMITS AND WITHIN WISDOT RIGHT OF WAY. LOCATION TO BE APPROVED BY THE ENGINEER.

CONTRACTOR WILL SUPPLY ALL REQUIRED SURVEY MONUMENTS.

SECTION CORNER MONUMENT AND LANDMARK REFERENCE MONUMENT DETAIL

2

N

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- SILT FENCE
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- DELINEATED WETLAND BOUNDARY
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- ROCK BAGS (SILT FENCE RELIEF)

NOTE
PLACE INLET PROTECTION TYPE C OR D ON ALL EXISTING INLETS ALONG STH 97 AND ON SIDE ROADS WHERE APPROPRIATE.

RIPRAP MEDIUM AND GEOTEXTILE FABRIC TYPE HR 6' X 15' X 1.5'

RIPRAP MEDIUM AND GEOTEXTILE FABRIC TYPE HR 15' X 20' X 1.5'

30+00 31+00 STH 97 32+00 33+00 34+00 35+00 36+00

SOUTH ST

SGN

Ø MH

Ø VLV

Ø WV

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	EROSION CONTROL	SHEET 23	E

2

N

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- SILT FENCE
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- DELINEATED WETLAND BOUNDARY
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- ROCK BAGS (SILT FENCE RELIEF)

NOTE
PLACE INLET PROTECTION TYPE C OR D ON ALL EXISTING INLETS ALONG STH 97 AND ON SIDE ROADS WHERE APPROPRIATE.

CONNOR MILL CREEK

KANN ST

S 3RD AVE

STH 97

46+00 47+00 48+00 49+00 50+00 51+00

RIPRAP MEDIUM AND GEOTEXTILE FABRIC TYPE HR 20' X 20' X 1.5'

CONNOR MILL CREEK

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	EROSION CONTROL	SHEET 24	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - ****

PLOT DATE : 11/30/2017 3:32 PM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- SILT FENCE
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- DELINEATED WETLAND BOUNDARY
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- F ROCK BAGS (SILT FENCE RELIEF)

NOTE
PLACE INLET PROTECTION TYPE C OR D ON ALL EXISTING INLETS ALONG STH 97 AND ON SIDE ROADS WHERE APPROPRIATE.

129+00 130+00 STH 97 131+00 132+00 133+00 134+00

BIG EAU PLEINE RIVER

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	EROSION CONTROL	SHEET 25	E

2

N

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- SILT FENCE
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- DELINEATED WETLAND BOUNDARY
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- F ROCK BAGS (SILT FENCE RELIEF)

NOTE
PLACE INLET PROTECTION TYPE C OR D ON ALL EXISTING INLETS ALONG STH 97 AND ON SIDE ROADS WHERE APPROPRIATE.

135+00 136+00 137+00 138+00 STH 97 139+00 140+00

BIG EAU PLEINE RIVER

©MH

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	EROSION CONTROL	SHEET 26	E

2

N

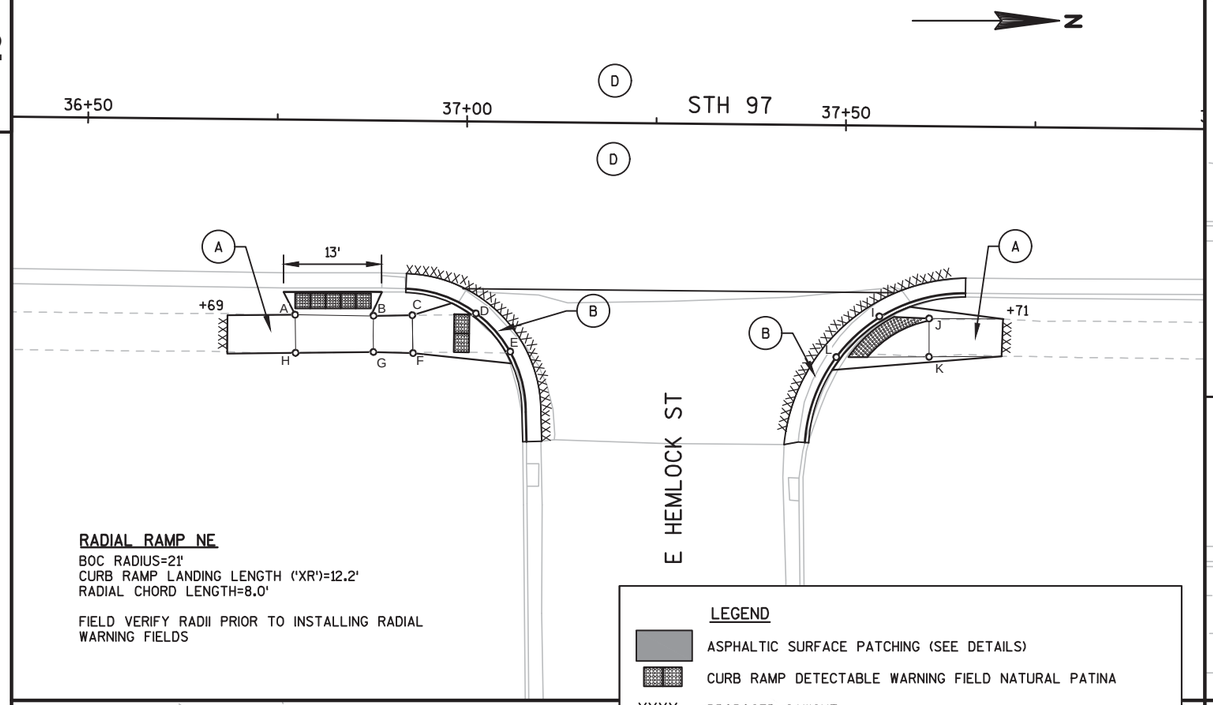
LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- SILT FENCE
- RIP RAP OR STONE DITCH CHECK
- SLOPE INTERCEPT
- DELINEATED WETLAND BOUNDARY
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW
- ROCK BAGS (SILT FENCE RELIEF)

NOTE
PLACE INLET PROTECTION TYPE C OR D ON ALL EXISTING INLETS ALONG STH 97 AND ON SIDE ROADS WHERE APPROPRIATE.

345+00 346+00 347+00 348+00 STH 97 349+00 350+00 351+00

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	EROSION CONTROL	SHEET 27	E



RADIAL RAMP NE

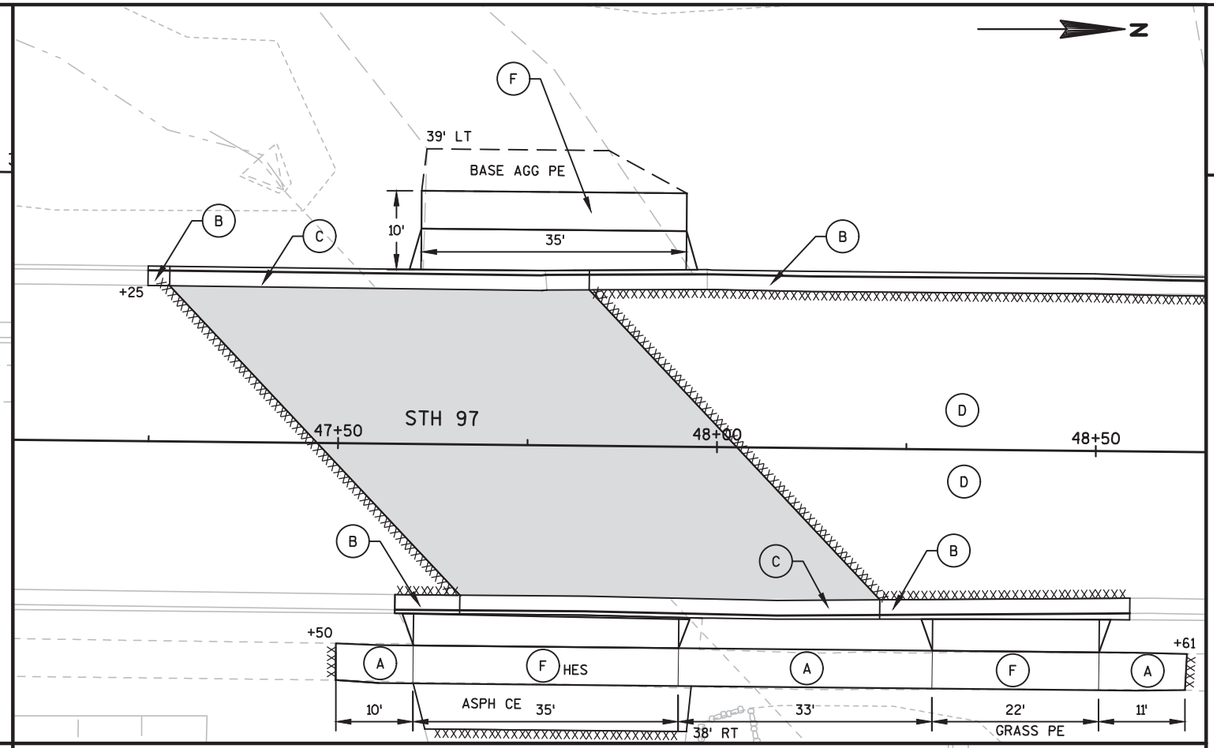
BOC RADIUS=21'
CURB RAMP LANDING LENGTH ('XR')=12.2'
RADIAL CHORD LENGTH=8.0'

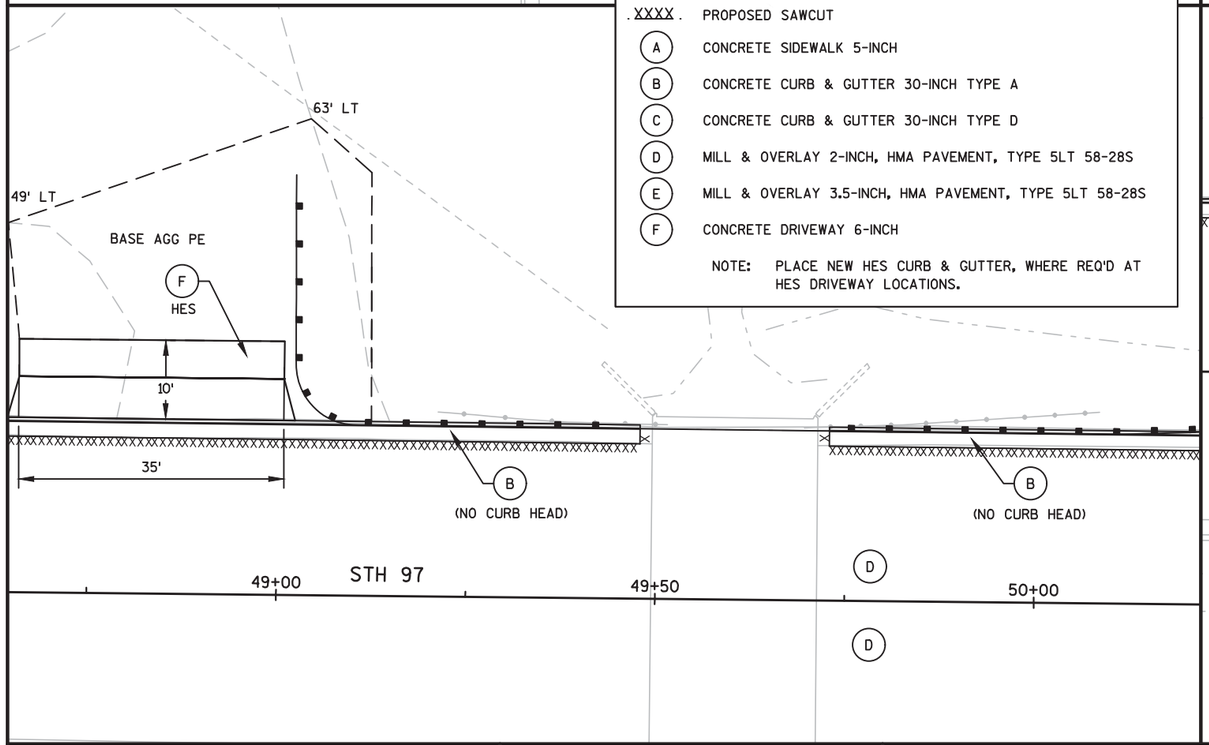
FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

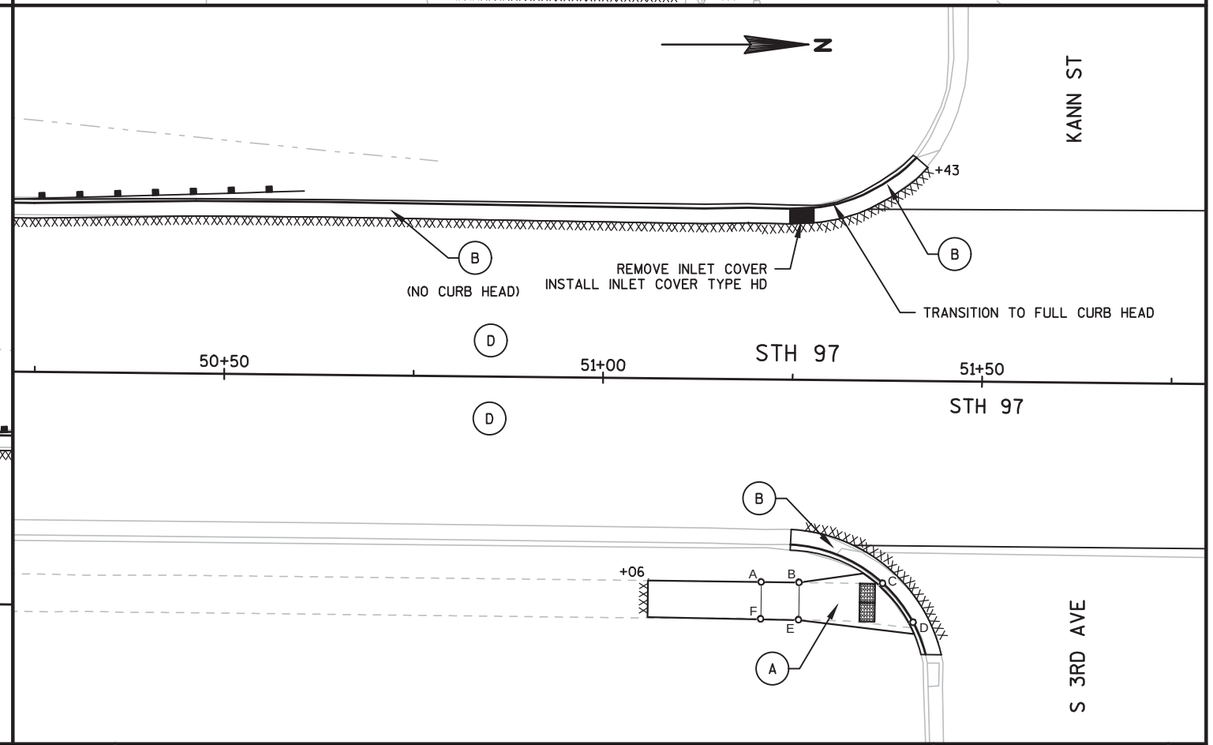
LEGEND

	ASPHALTIC SURFACE PATCHING (SEE DETAILS)
	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
.XXXX.	PROPOSED SAWCUT
(A)	CONCRETE SIDEWALK 5-INCH
(B)	CONCRETE CURB & GUTTER 30-INCH TYPE A
(C)	CONCRETE CURB & GUTTER 30-INCH TYPE D
(D)	MILL & OVERLAY 2-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
(E)	MILL & OVERLAY 3.5-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
(F)	CONCRETE DRIVEWAY 6-INCH

NOTE: PLACE NEW HES CURB & GUTTER, WHERE REQ'D AT HES DRIVEWAY LOCATIONS.







PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	PAVING DETAILS	SHEET 28	E

KANN ST

+43

REMOVE INLET COVER
INSTALL INLET COVER TYPE HD

TRANSITION TO FULL CURB HEAD

STH 97

51+00 51+50 52+00

STH 97

S 3RD AVE

+06

+19

W MEADOW ST

+60

REPLACE RAMP WITHIN
THE LIMITS SHOWN.

STH 97

55+50 56+00

XXXX

C

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE DETAILS)
- CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- .XXXX. PROPOSED SAWCUT
- (A) CONCRETE SIDEWALK 5-INCH
- (B) CONCRETE CURB & GUTTER 30-INCH TYPE A
- (C) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (D) MILL & OVERLAY 2-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
- (E) MILL & OVERLAY 3.5-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
- (F) CONCRETE DRIVEWAY 6-INCH

NOTE: PLACE NEW HES CURB & GUTTER, WHERE REQ'D AT HES DRIVEWAY LOCATIONS.

66' LT

+28

STH 153

74' LT

+62

STH 97

58+50 59+00 59+50

58+50

+32

CONCRETE CURB
PEDESTRIAN
(FORM AROUND
SIGNAL BASE)

NOTES

SEE SECTION 5 SHEETS FOR PAVEMENT, CURB AND GUTTER, AND DRIVEWAY REPAIRS DUE TO LOOP DETECTOR REPLACEMENTS.

REMOVING CONCRETE SURFACE PARTIAL DEPTH 2-INCH WITHIN STH 153 INTERSECTION.

36' RT

6'

71' RT

CONC
CE

HES

STH 97

59+00 59+50

+55

R27'

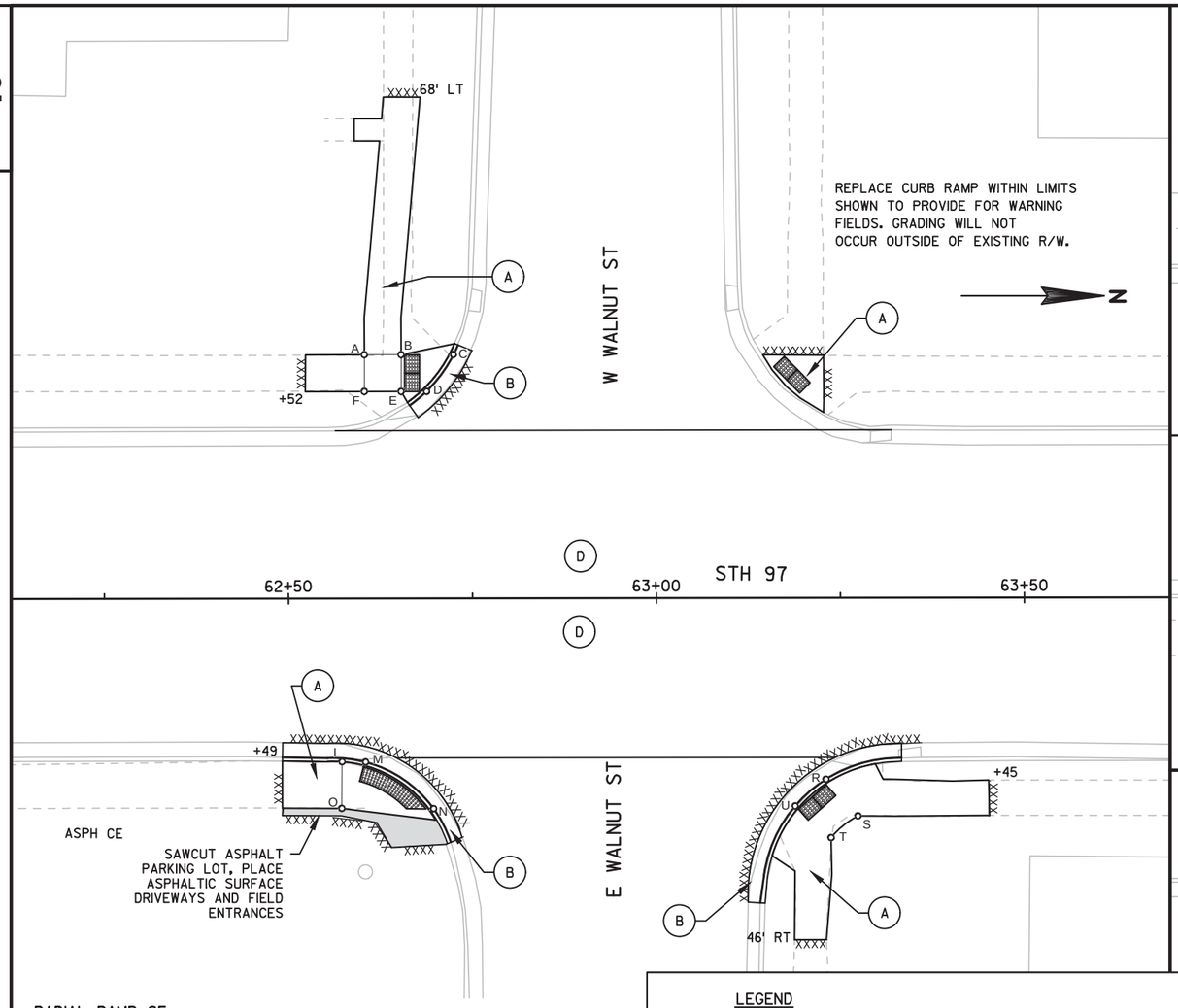
ASPH CE

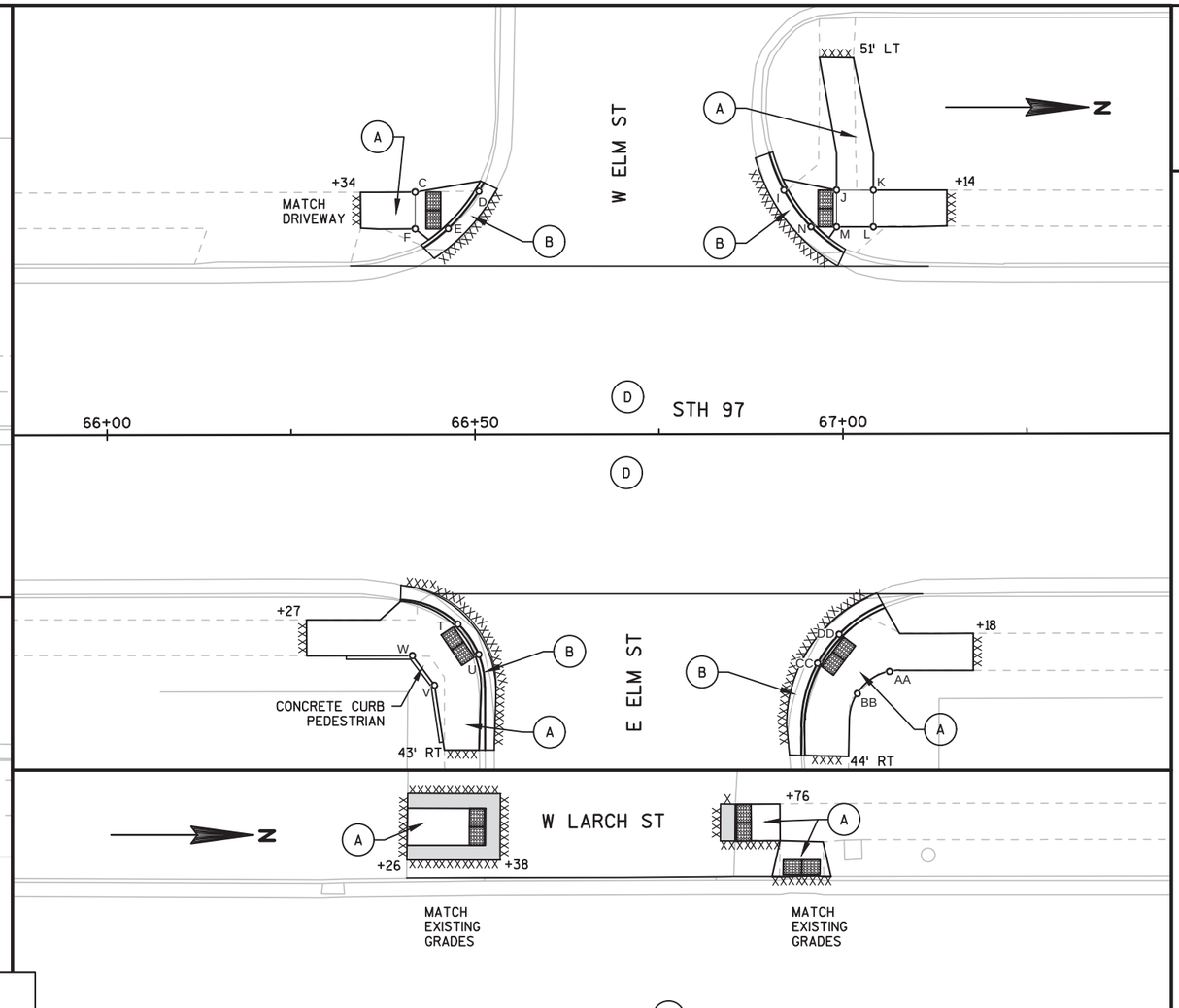
61' RT

SAWCUT ASPHALT
PARKING LOT, PLACE
ASPHALTIC SURFACE
DRIVEWAYS AND FIELD
ENTRANCES

STH 153

PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	PAVING DETAILS	SHEET 29	E





RADIAL RAMP SE

BOC RADIUS=16'
CURB RAMP LANDING LENGTH ('XR')=11.7'
RADIAL CHORD LENGTH=10.3'

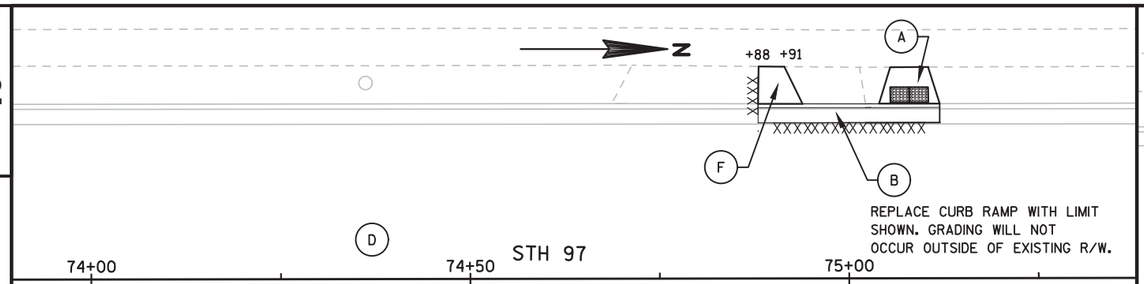
FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

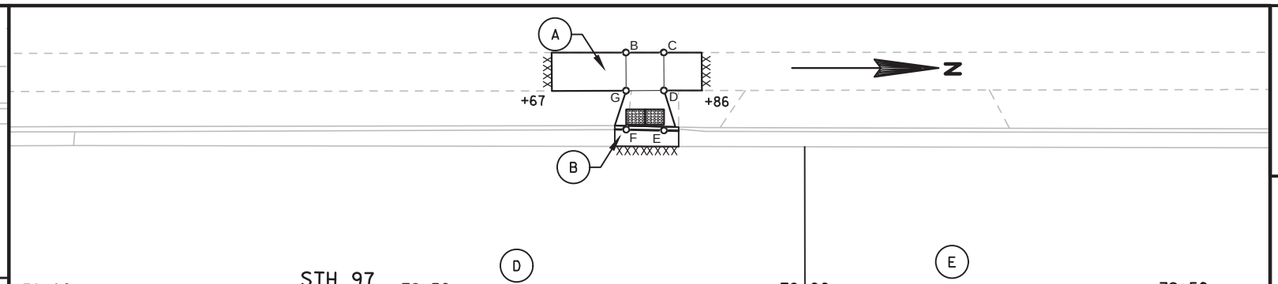
LEGEND

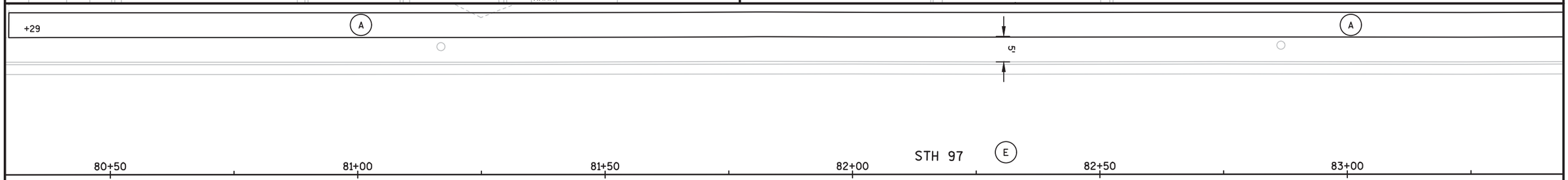
	ASPHALTIC SURFACE PATCHING (SEE DETAILS)
	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
.XXXX.	PROPOSED SAWCUT
(A)	CONCRETE SIDEWALK 5-INCH
(B)	CONCRETE CURB & GUTTER 30-INCH TYPE A
(C)	CONCRETE CURB & GUTTER 30-INCH TYPE D
(D)	MILL & OVERLAY 2-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
(E)	MILL & OVERLAY 3.5-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
(F)	CONCRETE DRIVEWAY 6-INCH

NOTE: PLACE NEW HES CURB & GUTTER, WHERE REQ'D AT HES DRIVEWAY LOCATIONS.

PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	PAVING DETAILS	SHEET 30	E



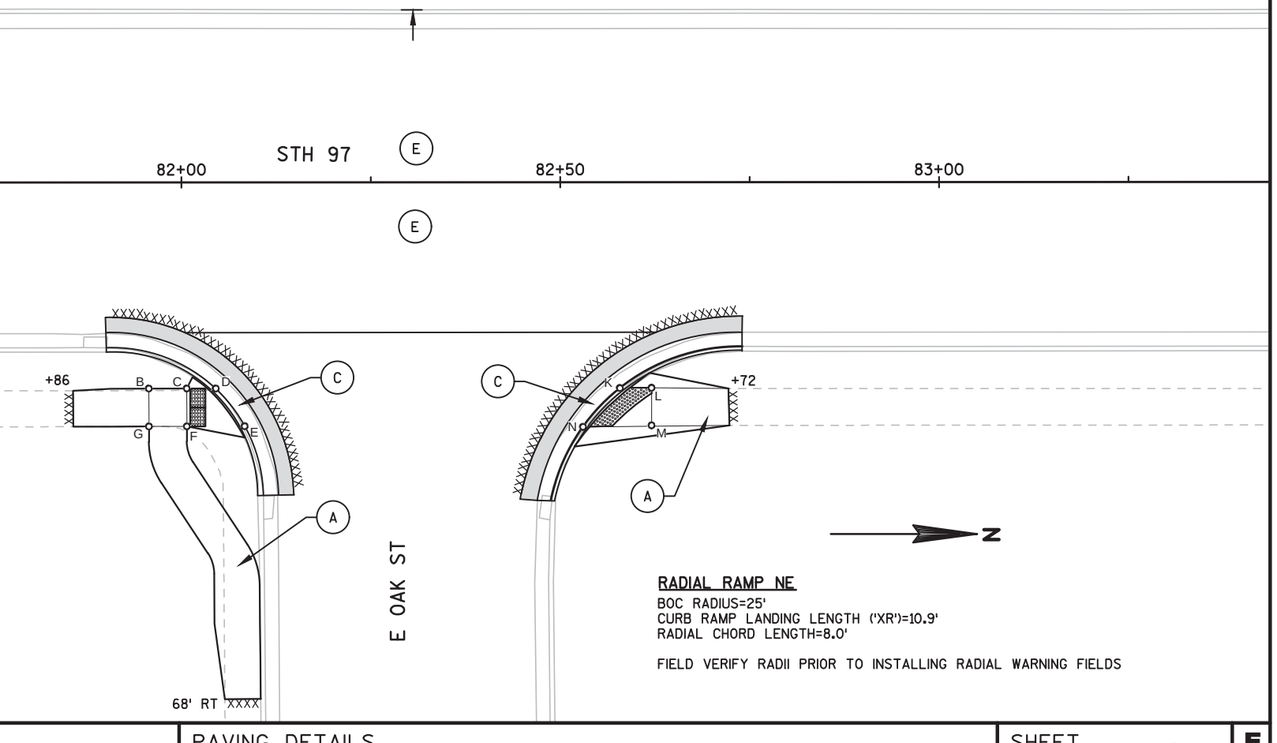




LEGEND

- ASPHALTIC SURFACE PATCHING (SEE DETAILS)
- CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- .XXXX. PROPOSED SAWCUT
- (A) CONCRETE SIDEWALK 5-INCH
- (B) CONCRETE CURB & GUTTER 30-INCH TYPE A
- (C) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (D) MILL & OVERLAY 2-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
- (E) MILL & OVERLAY 3.5-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
- (F) CONCRETE DRIVEWAY 6-INCH

NOTE: PLACE NEW HES CURB & GUTTER, WHERE REQ'D AT HES DRIVEWAY LOCATIONS.

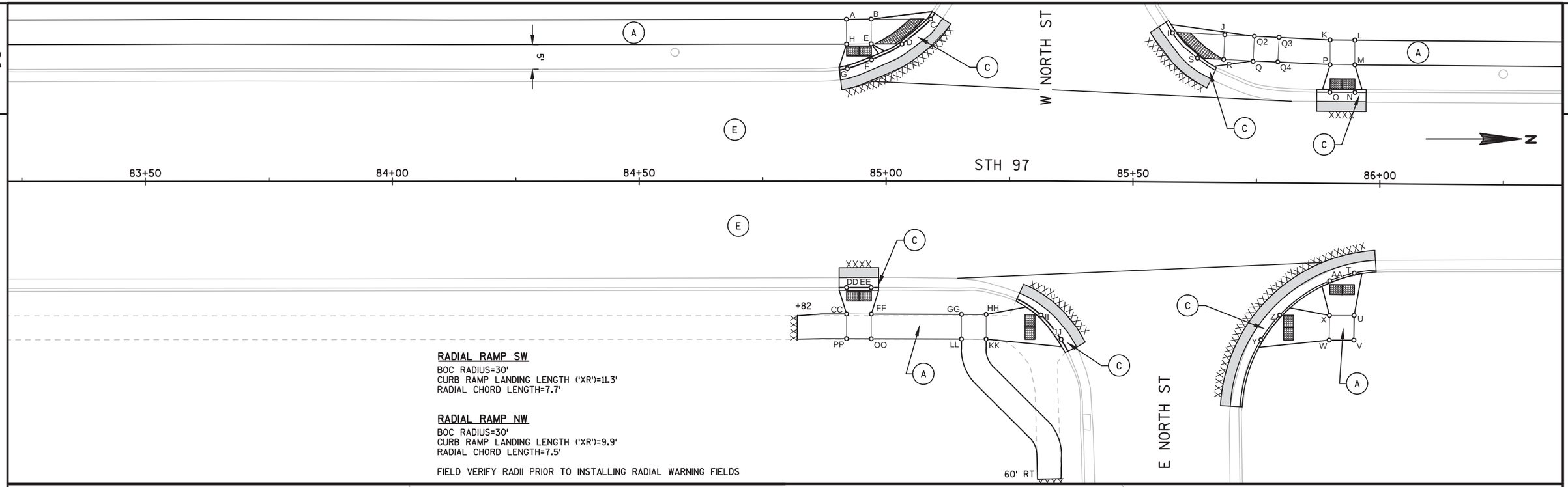


RADIAL RAMP NE

BOC RADIUS=25'
CURB RAMP LANDING LENGTH ('XR')=10.9'
RADIAL CHORD LENGTH=8.0'

FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PAVING DETAILS	SHEET 31	E



RADIAL RAMP SW
BOC RADIUS=30'
CURB RAMP LANDING LENGTH ('XR')=11.3'
RADIAL CHORD LENGTH=7.7'

RADIAL RAMP NW
BOC RADIUS=30'
CURB RAMP LANDING LENGTH ('XR')=9.9'
RADIAL CHORD LENGTH=7.5'

FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

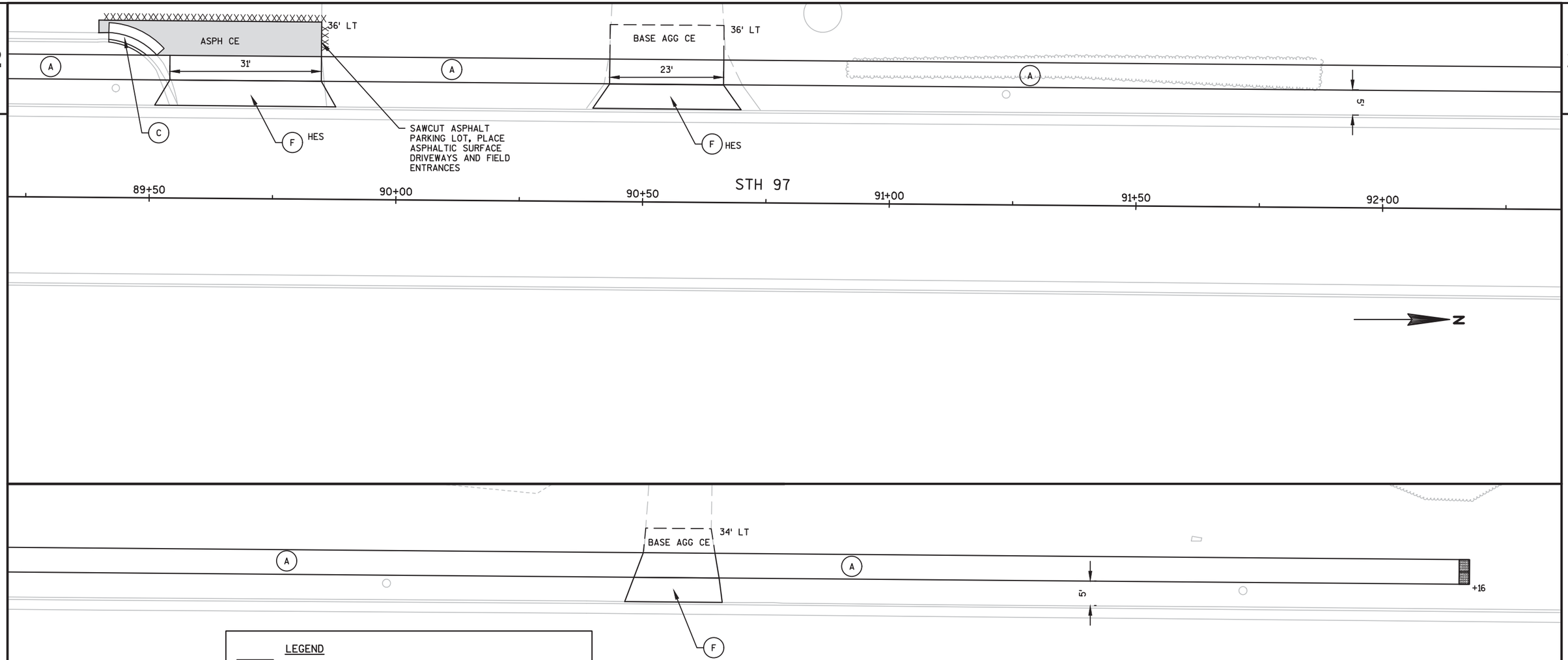
LEGEND

	ASPHALTIC SURFACE PATCHING (SEE DETAILS)
	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
.XXXX.	PROPOSED SAWCUT
A	CONCRETE SIDEWALK 5-INCH
B	CONCRETE CURB & GUTTER 30-INCH TYPE A
C	CONCRETE CURB & GUTTER 30-INCH TYPE D
D	MILL & OVERLAY 2-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
E	MILL & OVERLAY 3.5-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
F	CONCRETE DRIVEWAY 6-INCH

NOTE: PLACE NEW HES CURB & GUTTER, WHERE REQ'D AT HES DRIVEWAY LOCATIONS.

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PAVING DETAILS	SHEET 32	E

2



LEGEND

- ASPHALTIC SURFACE PATCHING (SEE DETAILS)
- CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
- .XXXX. PROPOSED SAWCUT
- (A) CONCRETE SIDEWALK 5-INCH
- (B) CONCRETE CURB & GUTTER 30-INCH TYPE A
- (C) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (D) MILL & OVERLAY 2-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
- (E) MILL & OVERLAY 3.5-INCH, HMA PAVEMENT, TYPE 5LT 58-28S
- (F) CONCRETE DRIVEWAY 6-INCH

NOTE: PLACE NEW HES CURB & GUTTER, WHERE REQ'D AT HES DRIVEWAY LOCATIONS.

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PAVING DETAILS	SHEET 33	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\022101-PD.DWG
LAYOUT NAME - ****
PLOT DATE : 1/25/2018 5:56 PM
PLOT BY : STEPHANIE CHRISTENSEN
PLOT NAME :
PLOT SCALE : **********
WISDOT/CADDS SHEET 42

HEMLOCK STREET CURB RAMPS			
A	36+77	25.85	1266.57
B	36+88	25.78	1266.42
C	36+93	25.66	1266.34
D	37+01	25.32	1265.88
E	37+06	30.33	1265.89
F	36+93	30.66	1266.41
G	36+88	30.78	1266.49
H	36+77	30.85	1266.65
I	37+55	25.14	1264.62
J	37+61	25.49	1264.72
K	37+61	30.49	1264.79
L	37+50	30.59	1264.85

3RD AVENUE CURB RAMPS			
A	51+22	26.75	1249.83
B	51+27	26.75	1249.75
C	51+37	26.78	1249.19
D	51+42	32.66	1249.04
E	51+27	31.75	1249.81
F	51+22	31.75	1249.89
G	51+91	26.25	1249.12
H	52+04	26.60	1249.68
I	52+09	26.63	1249.76
J	52+09	31.63	1249.82
K	52+04	31.60	1249.75
L	51+87	31.59	1248.97

STH 153 WEST CURB RAMPS			
A	58+43	-34.80	1262.70
B	58+48	-36.30	1262.61
C	59+48	-29.80	1262.56
D	59+48	-27.00	1262.40
E	59+43	-29.80	1262.62
F	59+42	-25.00	1262.30
G	58+63	-56.10	1263.44
GG	58+63	-61.10	1263.54
H	58+68	-61.30	1263.46
I	58+73	-61.10	1263.16
J	58+72	-56.52	1263.08
K	58+68	-56.30	1263.36
L	59+20	-57.00	1263.84
M	59+20	-62.00	1263.92
N	59+25	-62.00	1264.25
O	59+25	-57.00	1264.16
P	59+30	-62.00	1264.30
Q	59+30	-57.00	1264.23
R	59+44	-35.04	1263.98
S	59+49	-33.20	1263.97
T	59+49	-25.54	1263.86
U	59+44	-27.61	1263.87

STH 153 EAST CURB RAMPS			
A	58+42	22.45	1261.02
B	58+47	23.92	1261.12
C	58+47	27.50	1261.36
D	58+47	32.50	1261.46
E	58+42	32.50	1261.46
F	58+42	27.50	1261.36
G	58+69	53.80	1260.83
H	58+67	48.87	1260.73
I	58+75	48.87	1260.72
J	58+76	53.80	1260.62
O	59+31	49.04	1261.19
P	59+31	54.04	1261.20
Q	59+26	54.04	1261.13
R	59+26	49.04	1261.12
S	59+21	53.96	1260.82
T	59+23	49.04	1260.92
U	59+43	26.36	1262.30
V	59+48	24.23	1262.37
W	59+43	29.42	1262.51
X	59+48	29.45	1262.60
Y	58+48	34.42	1262.68
Z	58+43	35.79	1262.61

WALNUT STREET CURB RAMPS			
A	62+60	-33.12	1267.71
B	62+65	-33.12	1267.61
C	62+72	-33.14	1267.72
D	62+69	-28.14	1267.46
E	62+65	-28.12	1267.51
F	62+60	-28.12	1267.61
L	62+57	22.18	1265.79
M	62+60	22.20	1265.74
N	62+70	28.64	1265.72
O	62+57	28.52	1265.88
R	63+23	24.65	1266.42
S	63+27	29.65	1266.52
T	63+24	32.58	1266.44
U	63+19	28.29	1266.34

ELM STREET CURB RAMPS			
C	66+42	-32.95	1270.55
D	66+51	-33.06	1270.44
E	66+46	-27.98	1270.40
F	66+42	-27.95	1270.47
I	66+92	-33.15	1270.27
J	66+99	-33.15	1270.30
K	67+04	-33.15	1270.25
L	67+04	-28.15	1270.15
M	66+99	-28.15	1270.20
N	66+96	-28.15	1270.16
T	66+48	25.77	1269.74
U	66+50	29.98	1269.72
V	66+44	34.04	1269.62
W	66+41	30.05	1269.62
AA	67+06	32.28	1269.64
BB	67+02	35.27	1269.59
CC	66+97	31.14	1269.47
DD	66+99	27.22	1269.52

LARCH STREET CURB RAMPS			
M	70+27	26.65	1265.90
N	70+31	30.41	1265.91
O	70+26	35.16	1266.02
P	70+22	32.26	1266.02
V	70+85	30.98	1264.82
W	70+82	34.45	1264.77
X	70+80	25.78	1264.72
Y	70+77	29.30	1264.66

MAIN STREET CURB RAMPS			
C	74+04	26.17	1262.30
D	74+07	29.71	1262.27
E	74+02	34.43	1262.38
F	73+99	31.31	1262.42
G	74+51	27.18	1262.24
H	74+69	27.16	1262.43
I	74+70	32.15	1262.49
J	74+50	32.22	1262.15
O	74+97	27.18	1262.19
P	75+00	27.18	1262.15
Q	75+05	27.18	1262.15
R	75+05	22.27	1262.07
S	75+10	21.98	1262.05
T	75+10	27.13	1262.15
U	75+10	32.13	1262.23
V	75+05	32.18	1262.23
W	75+00	32.18	1262.21
X	74+93	32.14	1262.32

MYRTLE STREET CURB RAMPS			
B	78+76	-32.90	1251.46
C	78+81	-32.90	1251.44
D	78+81	-27.90	1251.38
E	78+81	-22.60	1251.06
F	78+76	-22.60	1251.08
G	78+76	-27.90	1251.40
L	78+16	27.39	1253.45
M	78+21	27.41	1253.35
N	78+28	27.44	1252.92
O	78+32	32.40	1252.87
P	78+21	32.41	1253.35
Q	78+16	32.39	1253.45
S	78+78	25.32	1251.37
T	78+83	31.98	1251.49
U	78+82	33.62	1251.49
V	78+75	28.76	1251.47

OAK STREET CURB RAMPS			
B	81+95	27.20	1245.71
C	82+00	27.20	1245.71
D	82+04	27.20	1245.65
E	82+08	32.22	1245.71
F	82+00	32.20	1245.80
G	81+95	32.20	1245.80
K	82+58	27.11	1245.77
L	82+62	27.00	1246.44
M	82+62	32.00	1246.49
N	82+53	32.31	1245.76

NORTH STREET CURB RAMPS			
A	84+92	-32.76	1247.98
B	84+97	-32.81	1247.98
C	85+09	-32.80	1247.80
D	85+03	-27.76	1247.87
E	84+97	-27.81	1247.96
F	84+97	-24.59	1247.92
G	84+92	-22.77	1247.97
H	84+92	-27.76	1247.98
I	85+58	-30.21	1248.25
J	85+68	-29.93	1248.41
K	85+90	-29.05	1249.23
L	85+95	-29.05	1249.23
M	85+95	-24.05	1249.23
N	85+95	-18.44	1249.13
O	85+90	-18.44	1249.08
P	85+90	-24.05	1249.23
Q	85+74	-24.64	1248.86
Q2	85+74	-29.64	1248.86
Q3	85+79	-29.43	1248.94
Q4	85+79	-24.43	1248.94
R	85+68	-24.93	1248.44
S	85+63	-25.15	1248.36
T	85+95	18.17	1249.15
U	85+95	26.75	1249.40
V	85+95	31.75	1249.40
W	85+90	31.77	1249.40
X	85+90	26.77	1249.40
Y	85+76	31.82	1249.19
Z	85+80	26.80	1249.18
AA	85+90	19.77	1249.16
CC	84+92	26.94	1248.35
DD	84+92	21.59	1248.21
EE	84+97	21.59	1248.27
FF	84+97	26.94	1248.35
GG	85+15	27.02	1249.20
HH	85+20	27.04	1249.20
II	85+31	27.16	1248.86
JJ	85+36	32.05	1249.03
KK	85+20	32.04	1249.26
LL	85+15	32.02	1249.26
OO	84+97	31.94	1249.34
PP	84+92	31.94	1249.34

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

N

1-8 H D9-2 24"X24"

1-9 MB-1 21"X21"

STOP TO REMAIN

NO MOTOR VEHICLES TO REMAIN

BIKE ROUTE 1-15 D11-1 24"X18"

1-16 M7-1 12"X9"

32+00 33+00 34+00 STH 97 35+00 36+00 37+00 38+00

SOUTH ST

S WEBER AV / SOUTH ST REMOVE BY MUNICIPALITY

STOP R1-1 30"X30" 1-1

NO PARKING REMOVE 1-2

NO PARKING R7-1-L 18"X24" 1-3

NO PASSING ZONE W14-3 48"X36" 1-4

SPEED LIMIT 40 REMOVE 1-5 (REMOVE FROM UTILITY POLE)

BIKE ROUTE D11-1 24"X18" 1-6

M7-1 12"X9" 1-7

NO PARKING R7-1-R 18"X24" 1-10

NO PARKING REMOVE 1-11

E HEMLOCK ST

S WEBER AV / E HEMLOCK ST REMOVE BY MUNICIPALITY

STOP R1-1 30"X30" 1-12

NO PARKING REMOVE 1-13

NO PARKING R7-1-L 18"X24" 1-14

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 35	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\023201-PS(10).DWG
LAYOUT NAME - 050401-PN

PLOT DATE : 1/25/2018 4:04 PM PLOT BY : STEPHANIE CHRISTENSEN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST

PROPOSED SIGN MOUNTED ON SINGLE POST

EXISTING SIGN MOUNTED ON MULTIPLE POSTS

PROPOSED SIGN MOUNTED ON MULTIPLE POSTS

SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE

X SIGN - REMOVE AND REPLACE

X SIGN - PLACE NEW

X SIGN - REMOVE

X SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

N

2-1 REMOVE

2-2 R7-1-R 18"X24"

2-3 REMOVE

2-6 R7-1-D 18"X24"

2-7 REMOVE

2-8 R2-1 24"X30"

2-10 W11-8 30"X30" (REMOVE FROM UTILITY POLE)

38+00 39+00 40+00 STH 97 41+00 42+00 43+00 44+00

2-4 REMOVE

2-5 R7-1-D 18"X24"

2-9 R2-1 24"X30"

2-11 R7-1-R 18"X24"

2-12 REMOVE

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 36	E

2

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

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N

GRAND VIEW AVE

CONNOR MILL CREEK

SEPC

UTILITY POLE

SGN

3-11 SPEED LIMIT 40 R2-1 24"X30"

3-1 NO PARKING ANY TIME REMOVE

3-2 NO PARKING ANY TIME R7-1-D 18"X24"

3-5 NO PARKING ANY TIME R7-1-D 18"X24"

3-6 NO PARKING ANY TIME REMOVE

3-9 STOP R1-1 30"X30"

44+00 45+00 46+00 STH 97 47+00 48+00 49+00 50+00

SPEED LIMIT 30 R2-1 24"X30" 3-12

NO PARKING ANY TIME R7-1-D 18"X24" 3-3

NO PARKING ANY TIME REMOVE 3-4

GV

NO PARKING ANY TIME R7-1-D 18"X24" 3-7

JCT 153 J1-1 24"X39" 3-8

NO PARKING ANY TIME REMOVE 3-10

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 37	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\023201-PS(10).DWG
LAYOUT NAME - 050403-PN
PLOT DATE : 1/25/2018 1:53 PM
PLOT BY : STEPHANIE CHRISTENSEN PLOT NAME :
PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

2

N

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

KANN ST

S WEBER AVE
KANN ST
REMOVE BY MUNICIPALITY

4-2 — NO PARKING ANY TIME — R7-1-L 18"X24"
4-4 — SPEED LIMIT 40 — REMOVE
4-5 — STOP — R1-1 30"X30"
4-7 — NO PARKING ANY TIME — R7-1-R 18"X24"

W MEADOW ST

S WEBER AV
W MEDOW ST
REMOVE BY MUNICIPALITY

4-14 — NO PARKING ANY TIME — REMOVE
4-15 — NO PARKING ANY TIME — R7-1-L 18"X24"
4-16 — STOP — R1-1 30"X30"

SIGN SIGN

50+00 | 51+00 | 52+00 | 53+00 | STH 97 | 54+00 | 55+00 | 56+00

S 3RD AVE

4-1 — W3-3 36"X36" (REMOVE FROM UTILITY POLE)
4-3 — NO PARKING ANY TIME — R7-1-R 18"X24"

S WEBER AV
S 3RD AV
REMOVE BY MUNICIPALITY

4-6 — STOP — R1-1 30"X30"
4-8 — SPEED LIMIT 30 — REMOVE
4-9 — NO PARKING ANY TIME — R7-1-L 18"X24"
4-10 — NO PARKING ANY TIME — REMOVE

4-11A — WEST 153 — J2-1 24" X 57"
4-11 — WEST 153 / EAST 153 — REMOVE
4-11B — EAST 153 — J2-1 24" X 57"

4-12 — NO PARKING ANY TIME — REMOVE
4-13 — NO PARKING ANY TIME — R7-1-D 18"X24"

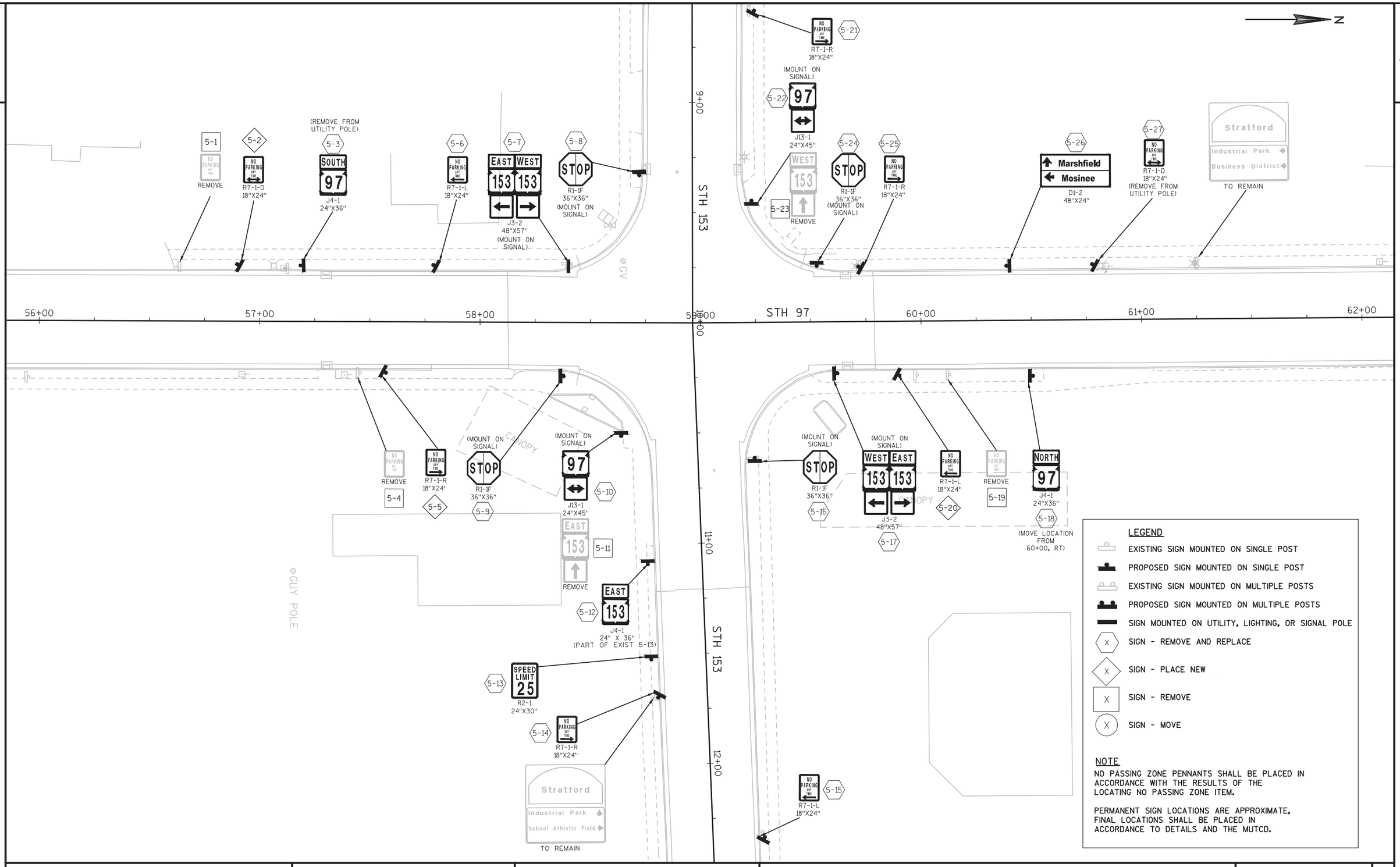
Stratford
Business District
Village Offices
Parks
Schools
School Athletic Field
Industrial Park
POST OFFICE
TO REMAIN

4-17 — Athens / Mosinee — D1-2 42"X24"
4-18 — NO PARKING ANY TIME — REMOVE

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 38	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\023201-PS(10).DWG
LAYOUT NAME - 050404-PN

PLOT DATE : 1/25/2018 1:41 PM PLOT BY : STEPHANIE CHRISTENSEN PLOT NAME : PLOT SCALE : 1:40_XREF



LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- X SIGN - PLACE NEW
- X SIGN - REMOVE
- X SIGN - MOVE

NOTE

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PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 39	E

2

N

NO TRUCKS OVER 15000 LBS EMPTY WT
S WEBER AV
W WALNUT ST
REMOVE BY MUNICIPALITY
6-3 R7-1-L 18"X24"
6-4 R1-1 30"X30" STOP
W WALNUT ST
6-8 J2-2 48"X57" EAST 153 WEST 153
6-9 REMOVE
6-10 R7-1-R 18"X24"
6-11 W3-3 36"X36"
6-13 J1-1 24"X39" JCT 153
Stratford
Business District
Village Offices
Klemme Park
Museum
POST OFFICE
TO REMAIN
S WEBER AV
W ELM ST
REMOVE BY MUNICIPALITY
6-14 R7-1-L 18"X24"
6-16 R1-1 30"X30" STOP
W ELM ST
Stratford
Business District
Village Offices
Police Dept.
Museum
POST OFFICE
TO REMAIN
6-17 W14-1 30"X30" DEAD END
6-19 REMOVE
6-20 R7-1-R 18"X24"
6-24 R2-1 24"X30" SPEED LIMIT 30
SIGN
GUY POLE

62+00 63+00 64+00 STH 97 65+00 66+00 67+00 68+00

SIGN
6-1 R7-1-R 18"X24"
6-2 REMOVE
E WALNUT ST
S WEBER AV
E WALNUT ST
REMOVE BY MUNICIPALITY
6-5 R1-1 30"X30" STOP
6-6 REMOVE
6-7 R7-1-L 18"X24"
6-12 R2-1 24"X30" SPEED LIMIT 30
6-15 R7-1-R 18"X24"
E ELM ST
N WEBER AV
E ELM ST
TO REMAIN
6-18 R1-1 30"X30" STOP
6-21 REMOVE
6-22 R7-1-L 18"X24"
6-23 R2-1 24"X30" SPEED LIMIT 30

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X SIGN - REMOVE AND REPLACE
- X SIGN - PLACE NEW
- X SIGN - REMOVE
- X SIGN - MOVE

NOTE

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PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 40	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\023201-PS(10).DWG
LAYOUT NAME - 050406-PN
PLOT DATE : 1/25/2018 1:50 PM PLOT BY : STEPHANIE CHRISTENSEN PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

N

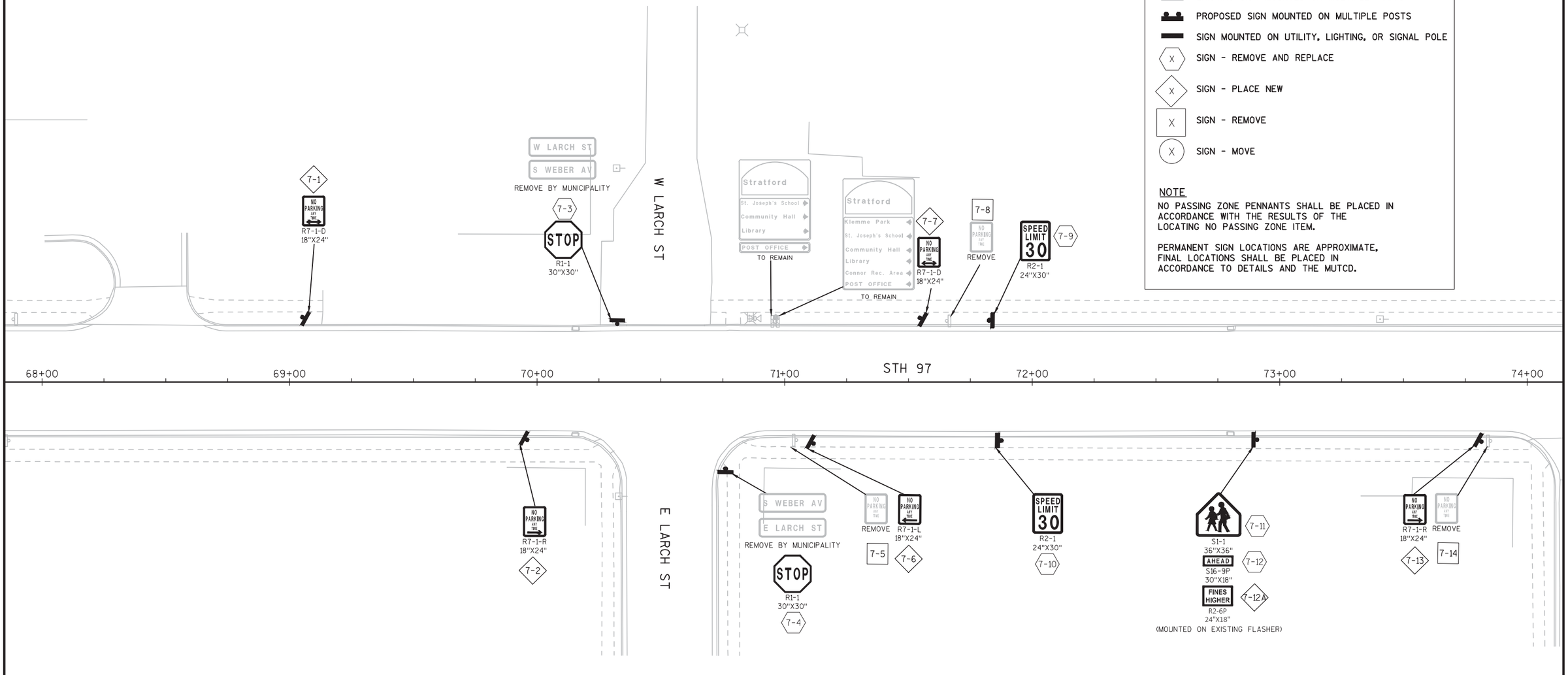
LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 41	E

2

N

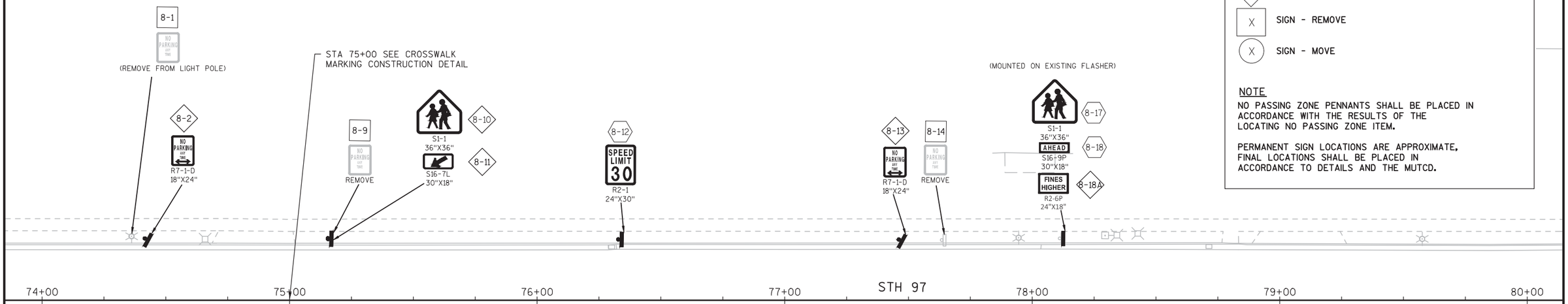
LEGEND

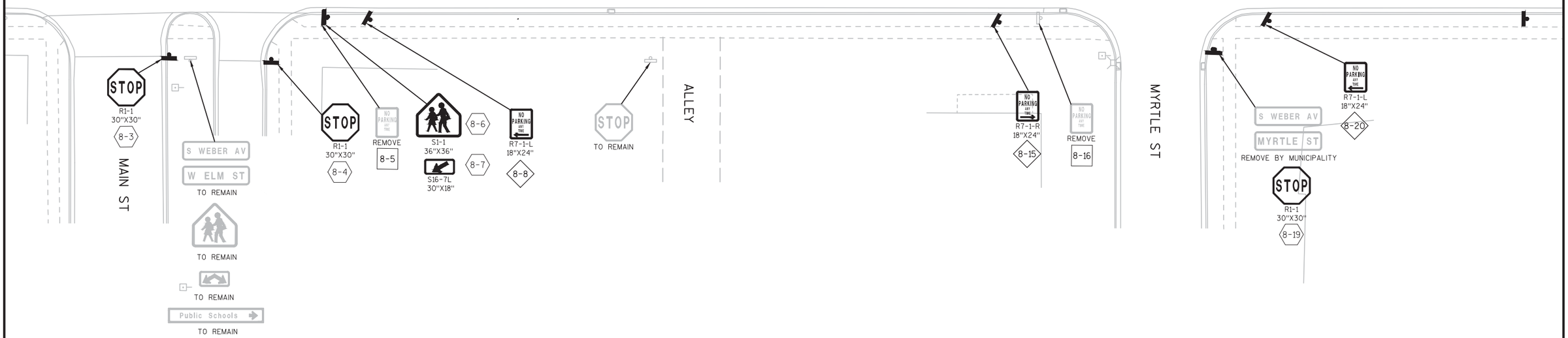
- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

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PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.





PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 42	E

2

N

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

9-2 SPEED LIMIT 30 R2-1 24"X30"

9-3 NO PARKING ANY TIME R7-1-D 18"X24"

9-7 NO PARKING ANY TIME R7-1-L 18"X24"

S WEBER AV
W NORTH ST
REMOVE BY MUNICIPALITY

9-8 STOP R1-1 30"X30"

W NORTH ST

80+00 81+00 82+00 STH 97 83+00 84+00 85+00 86+00

9-1 SPEED LIMIT 40 R2-1 24"X30"

9-4 NO PARKING ANY TIME R7-1-R 18"X24"

OAK ST

S WEBER AV
OAT ST
REMOVE BY MUNICIPALITY

9-5 STOP R1-1 30"X30"

9-6 NO PARKING ANY TIME R7-1-L 18"X24"

9-9 NO PARKING ANY TIME R7-1-R 18"X24"

KLEMME RESERVE
TO REMAIN

GUY POLE

E NORTH ST

S WEBER AV
E NORTH ST
REMOVE BY MUNICIPALITY

9-10 STOP R1-1 30"X30"

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 43	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\023201-PS(10).DWG
LAYOUT NAME - 050409-PN

PLOT DATE : 11/30/2017 2:54 PM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:40_XREF

2

2

LEGEND

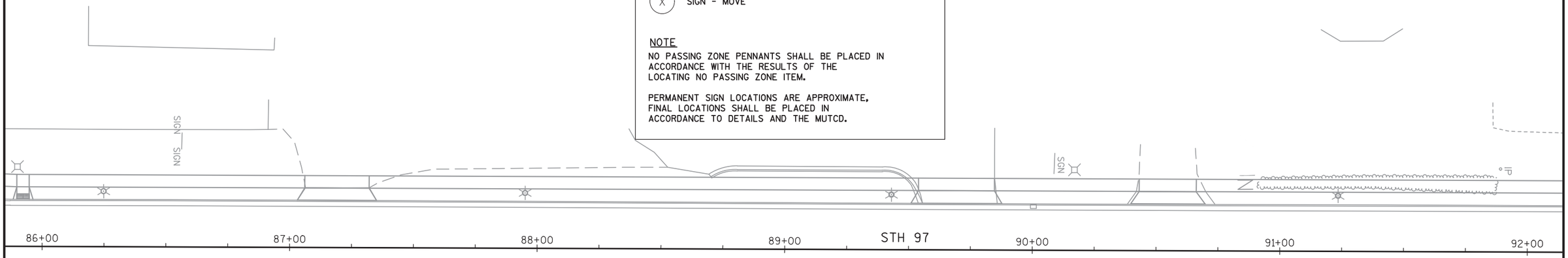
- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

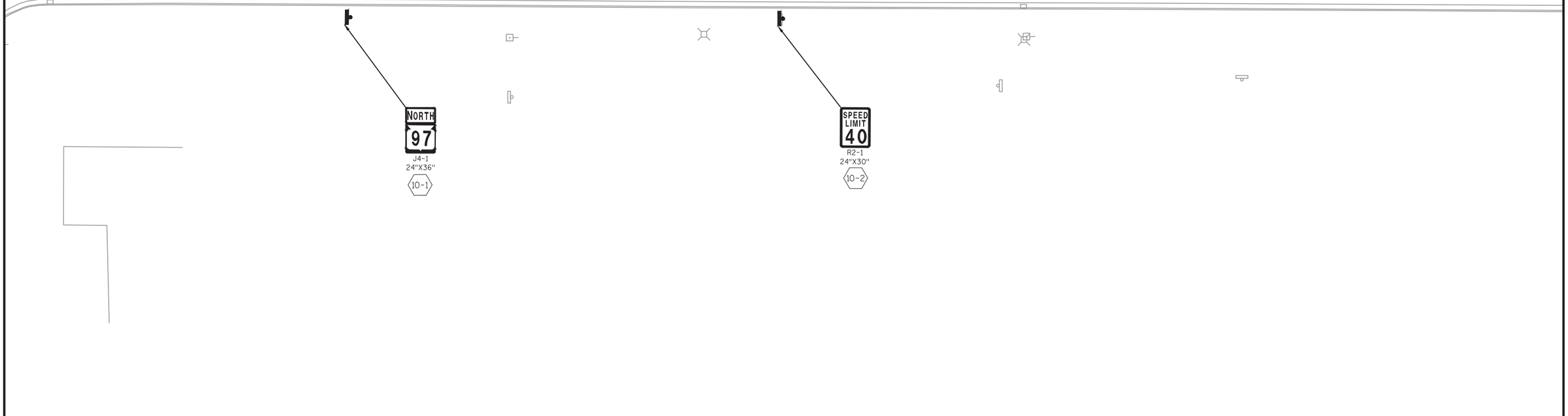
NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

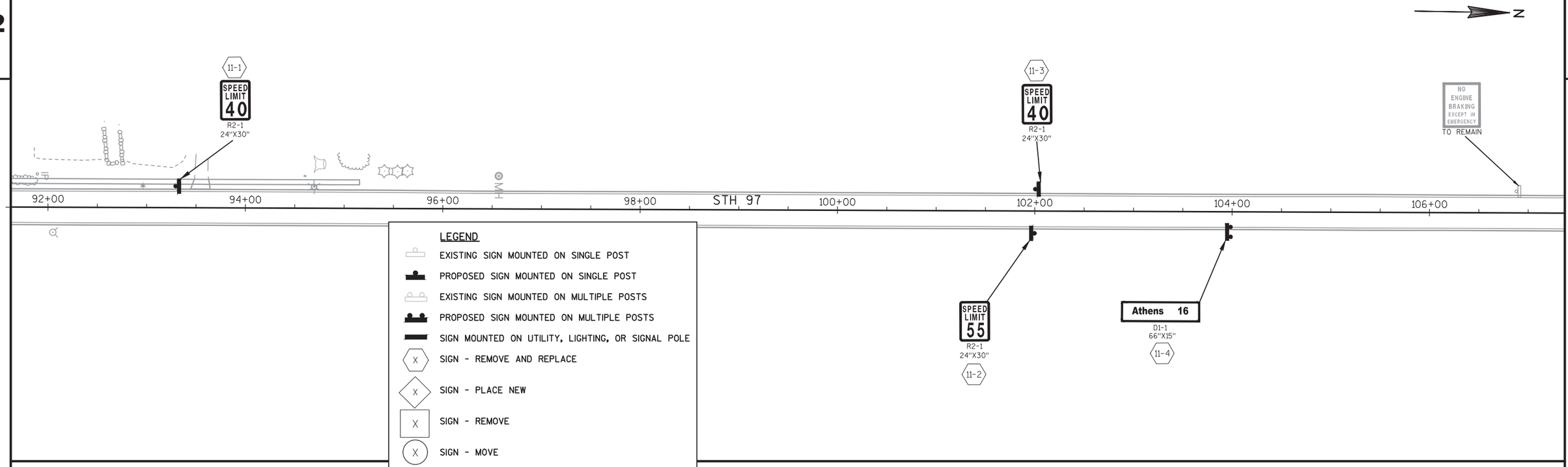
PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

N





PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 44	E



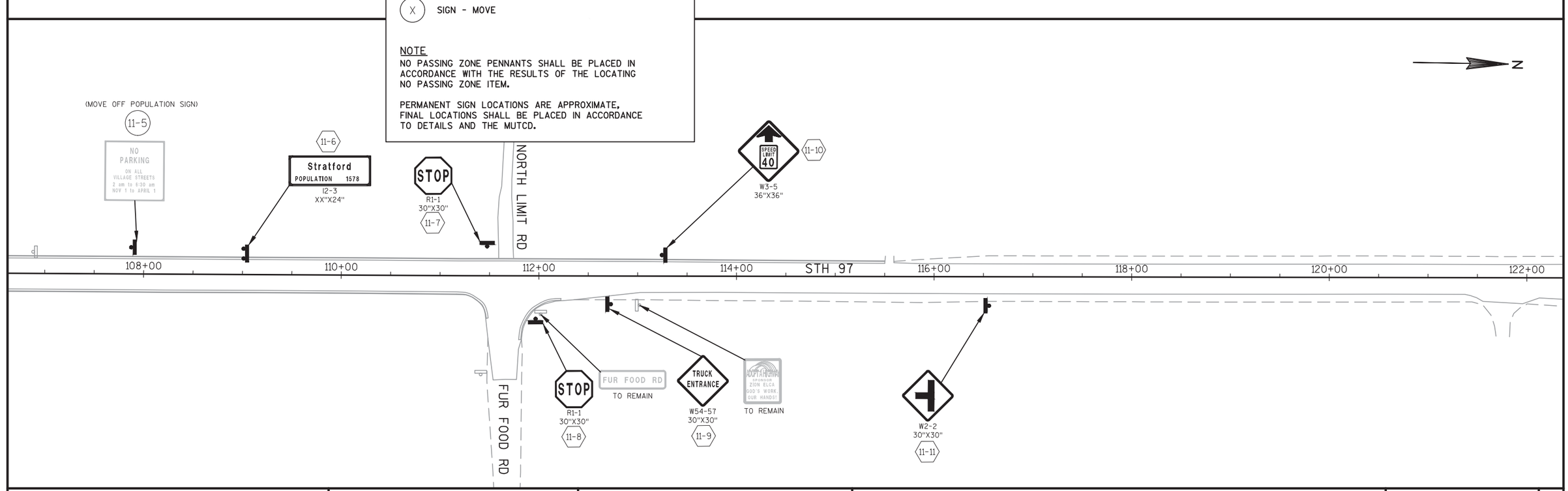
LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- ◇X◇ SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE

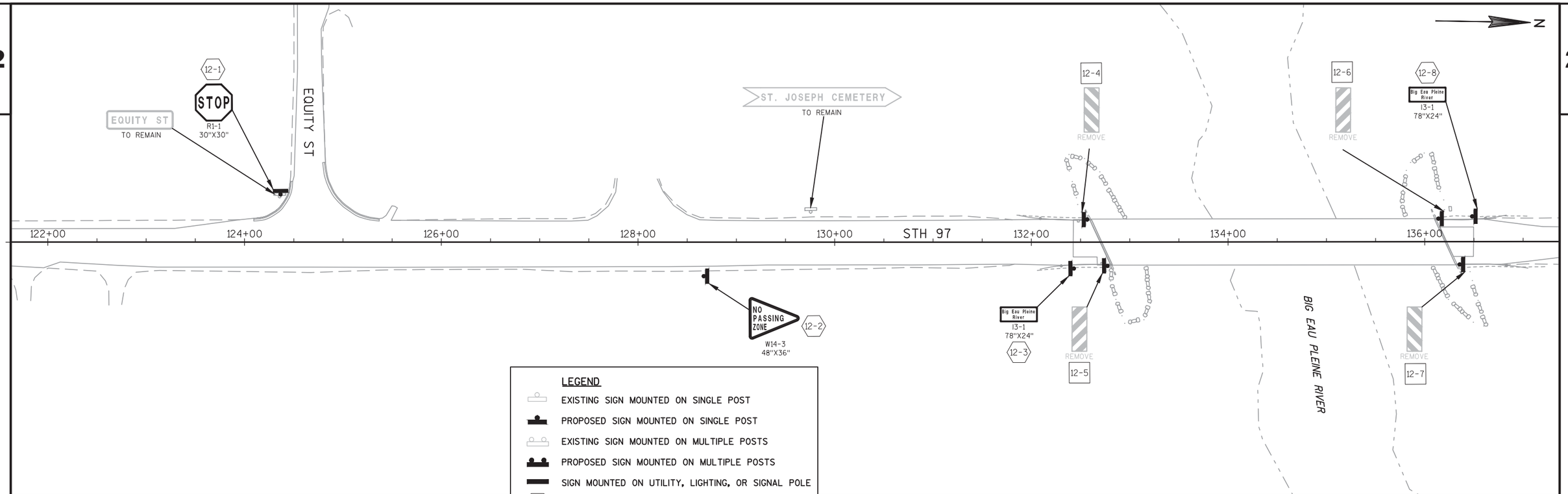
NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 45	E



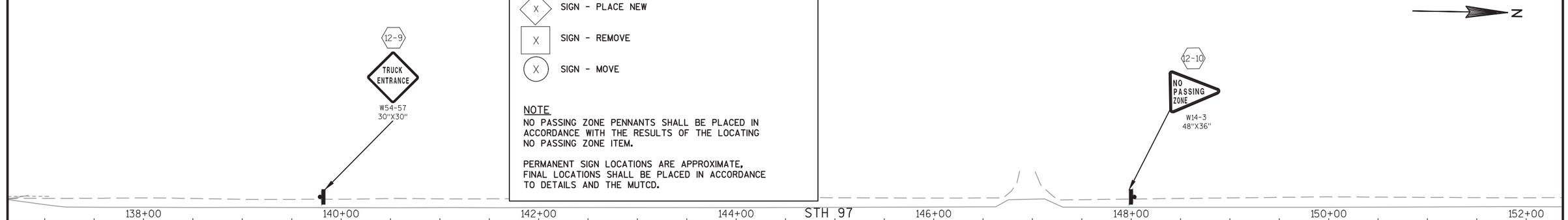
LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE

NOTE

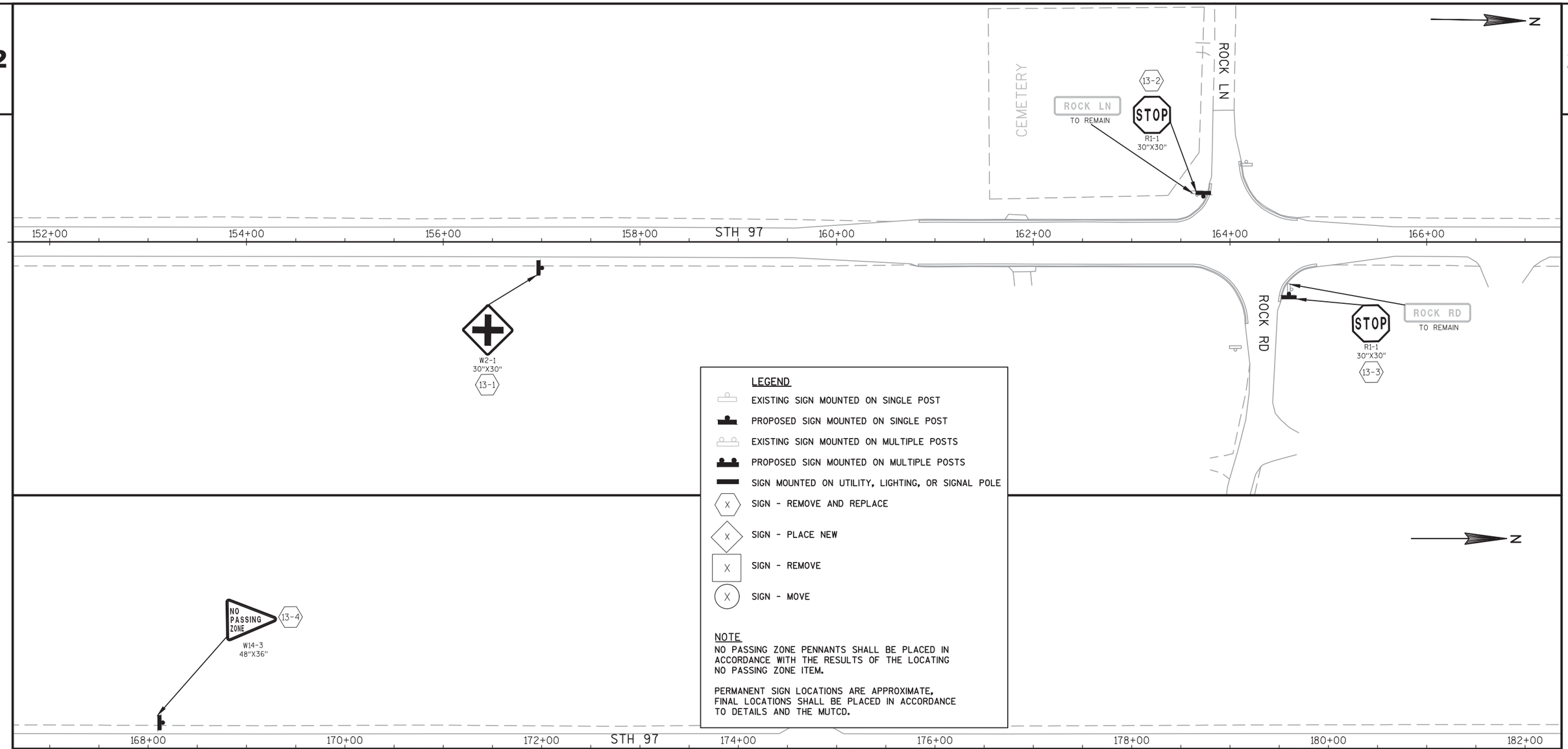
NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 46	E

2



PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 47	E

2

N

NO PASSING ZONE
W14-3
48"X36"
14-2

182+00 184+00 186+00 188+00 STH 97 190+00 192+00 194+00 196+00

KAISER RD

NO PASSING ZONE
W14-3
48"X36"
14-1

STOP
R1-1
30"X30"
14-3

KAISER RD
TO REMAIN

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE

NOTE
NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

N

14-5
NO PASSING ZONE
W14-3
48"X36"

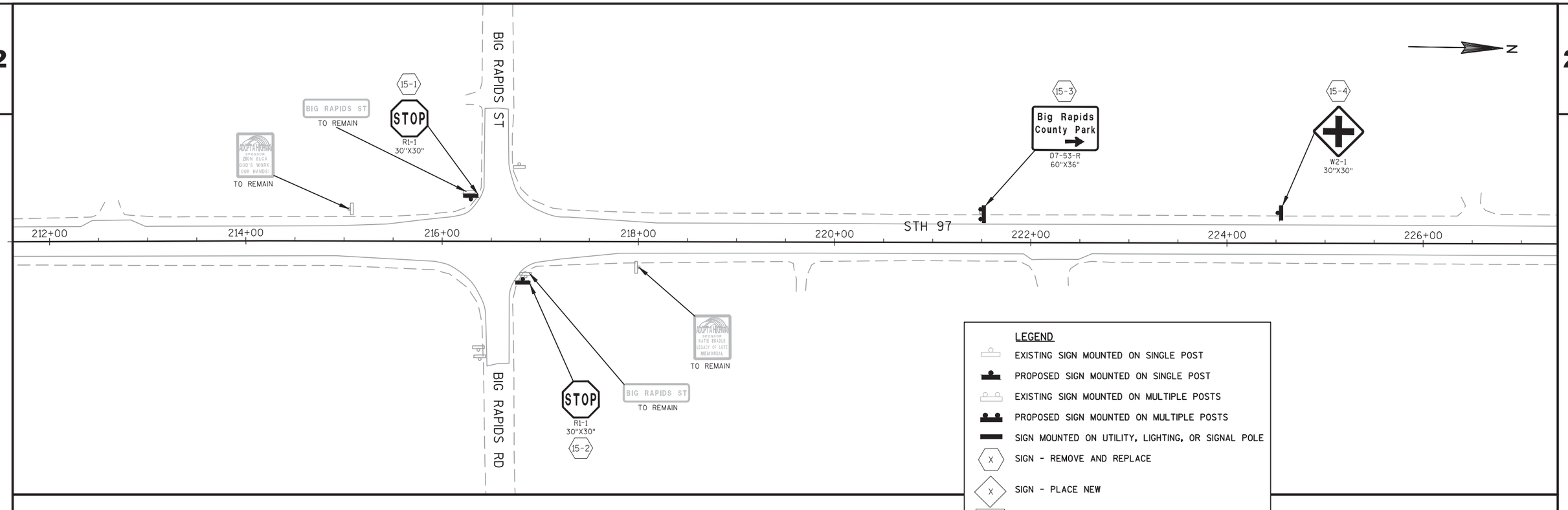
198+00 200+00 202+00 204+00 STH 97 206+00 208+00 210+00 212+00

NO PASSING ZONE
W14-3
48"X36"
14-4

Big Rapids County Park
D7-53-L
60"X36"
14-6

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 48	E

2



2

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 49	E

2

N

NO SIGNING STA 242+00 - STA 257+00

242+00 244+00 246+00 248+00 STH 97 250+00 252+00 254+00 256+00

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

N

CTH P

16-3 NO PASSING ZONE W14-3 48"X36"

16-5 ROAD TO Big Rapids County Park 1/2 MILE REMOVE

16-6 SOUTH 97 J4-1 24"X36"

16-8 97 J13-1 24"X45" 16-12 STOP R1-1 30"X30"

16-11 COUNTY P J13-1 24"X45"

258+00 260+00 262+00 STH 97 264+00 266+00 268+00 270+00 272+00

JCT COUNTY P J1-1 24"X39" 16-1

NO PASSING ZONE W14-3 48"X36" 16-2

Unity Fenwood D1-2 66"X30" 16-4

CTH P

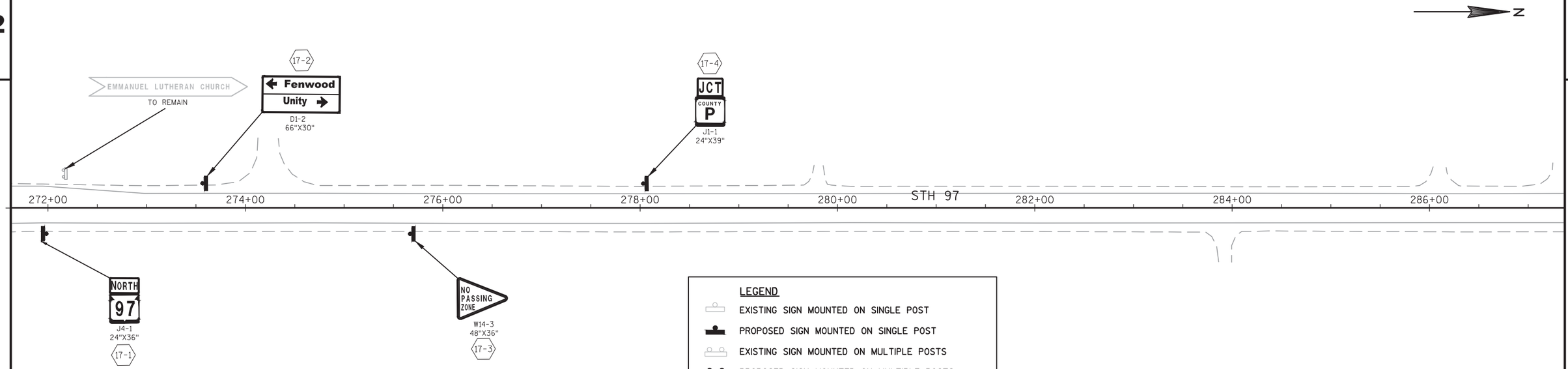
COUNTY P J13-1 24"X45" 16-7

STOP R1-1 30"X30" 16-9

97 J13-1 24"X45" 16-10

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 50	E

2



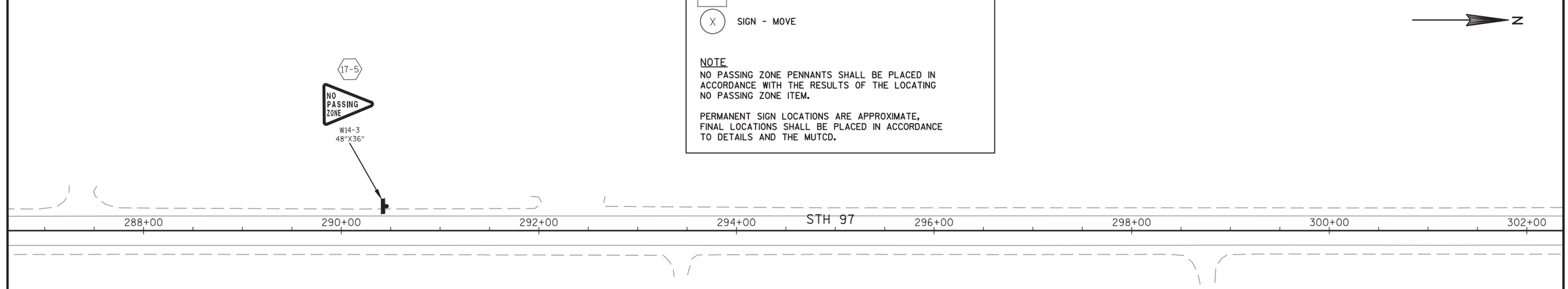
LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 51	E

2

N

18-2

NO PASSING ZONE

W14-3
48"X36"

STH 97

302+00 304+00 306+00 308+00 310+00 312+00 314+00 316+00

NO PASSING ZONE

W14-3
48"X36"

18-1

W2-1
30"X30"

18-3

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- <X> SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

N

BLACKBERRY RD

18-4

STOP

R1-1
30"X30"

ADOPT A MEDIAN
SPONSOR
KATIE BRAGLE
LEGACY OF LOVE
MEMORIAL

TO REMAIN

BLACKBERRY ST
TO REMAIN

318+00 320+00 322+00 324+00 326+00 328+00 330+00 332+00

STH 97

BLACKBERRY ST
TO REMAIN

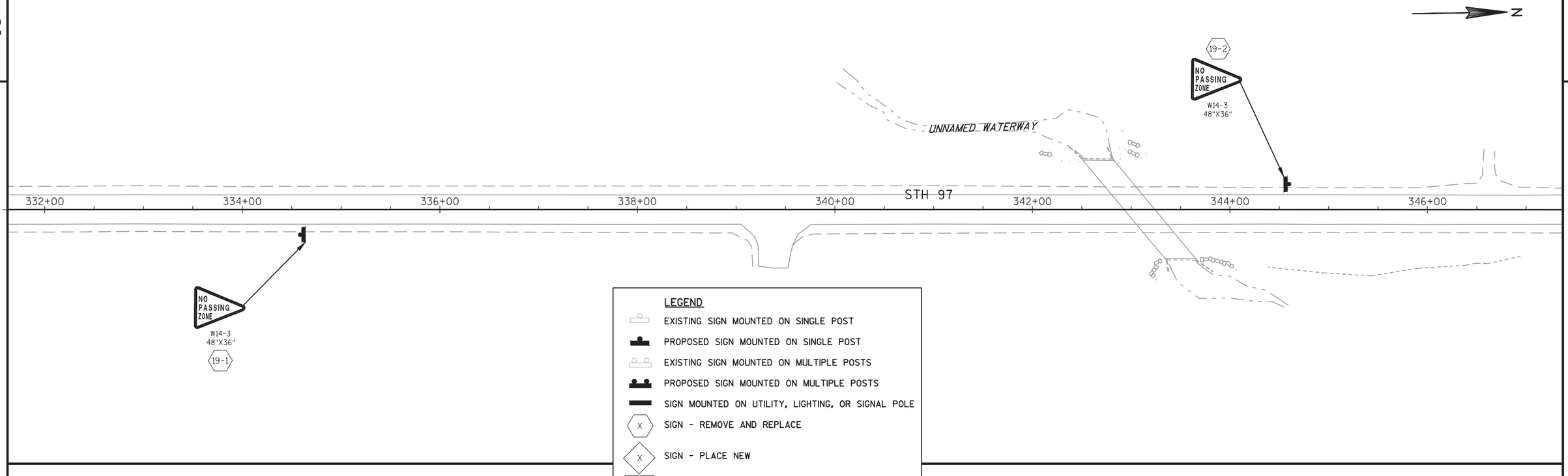
STOP

R1-1
30"X30"

18-5

BLACKBERRY ST

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 52	E



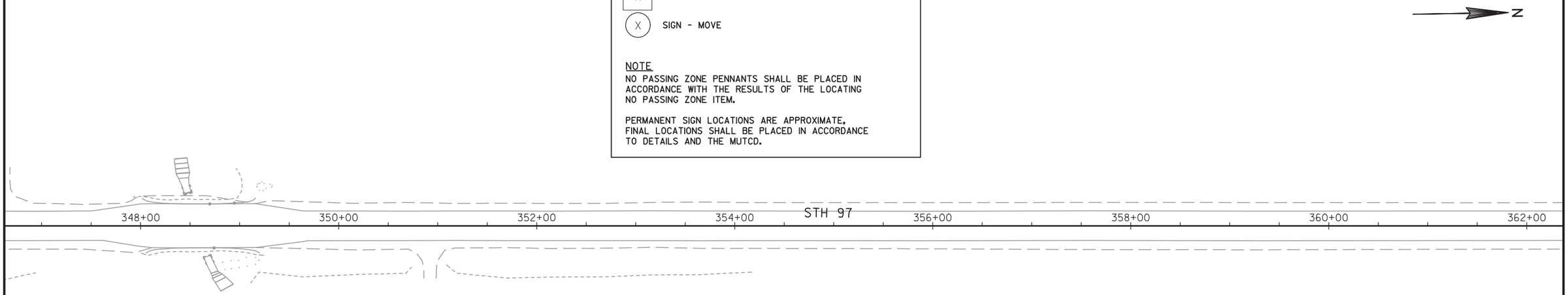
LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- <X> SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE

NOTE

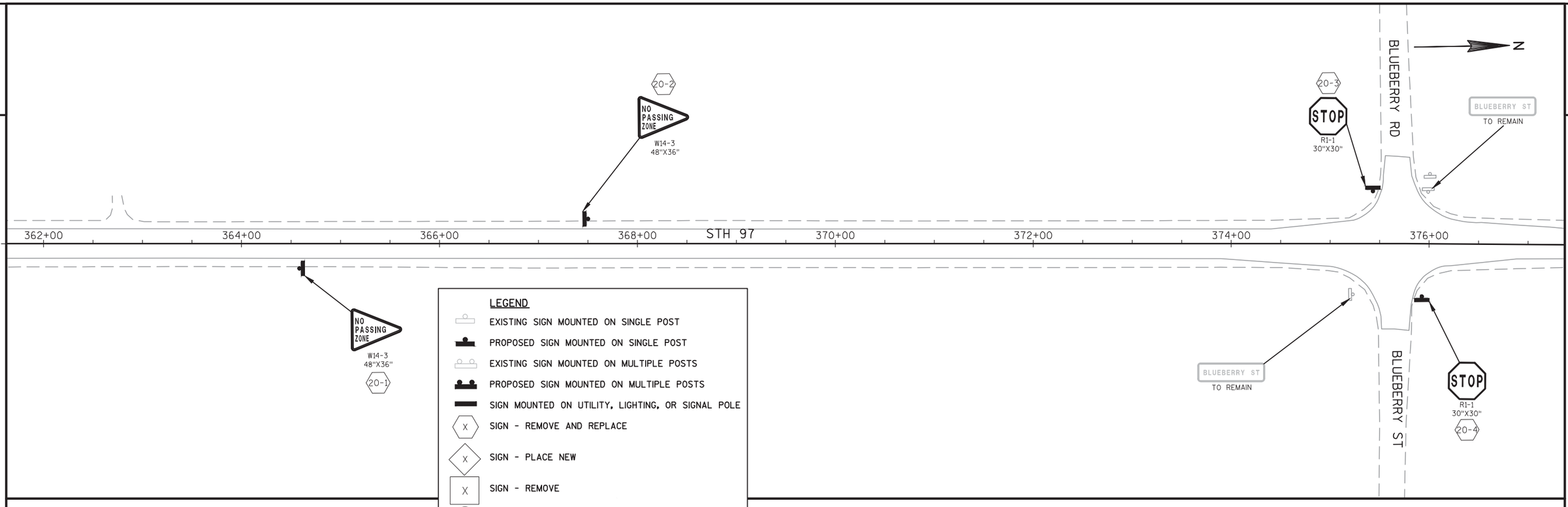
NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



NO SIGNING STA 348+00 - STA 362+00

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 53	E



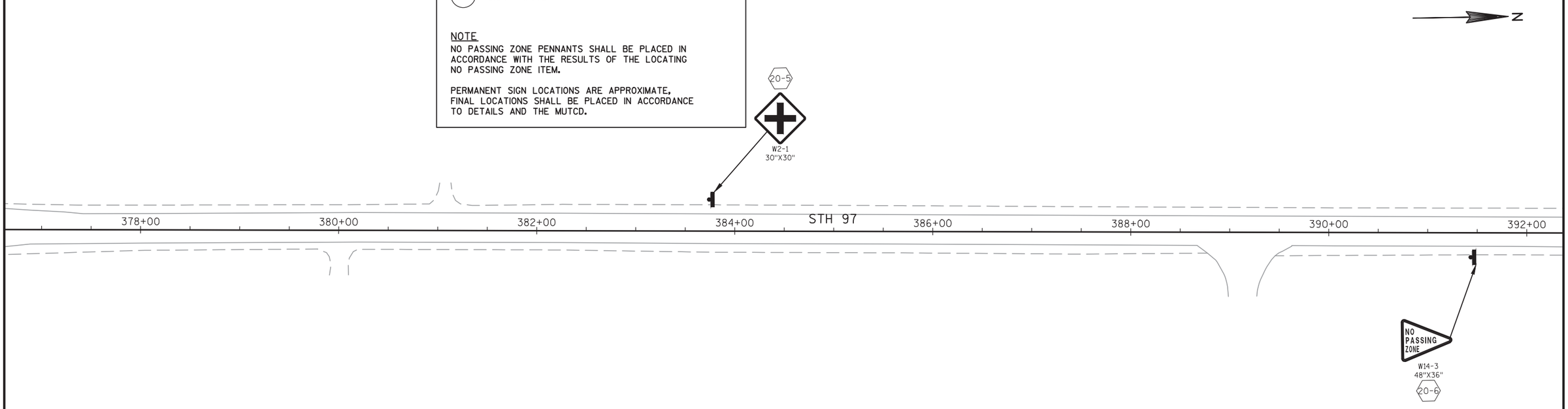
LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- (X) SIGN - REMOVE
- (X) SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

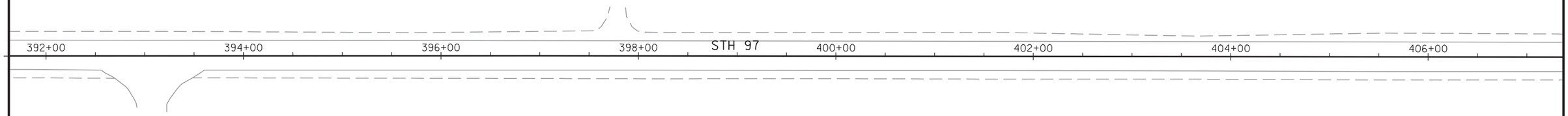


PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 54	E

2

N

NO SIGNING STA 392+00 - STA 407+00



LEGEND

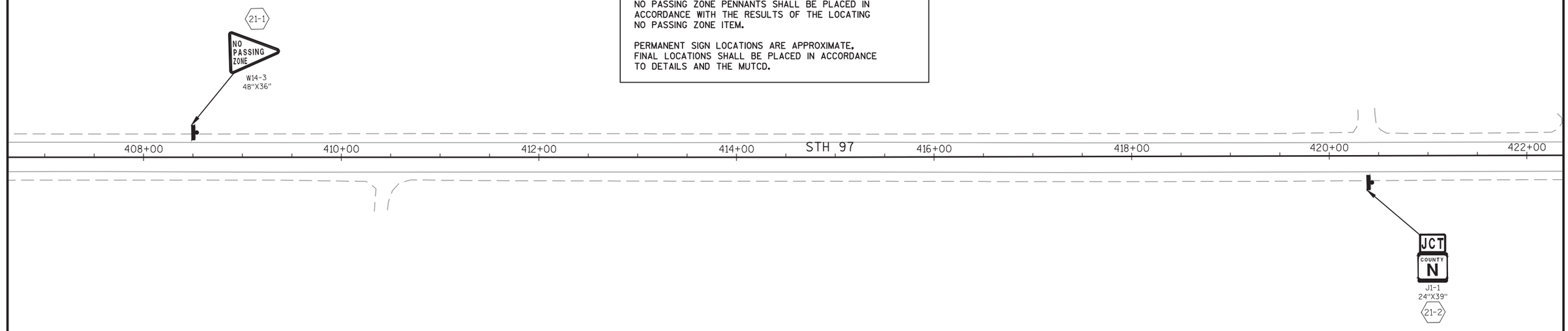
- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

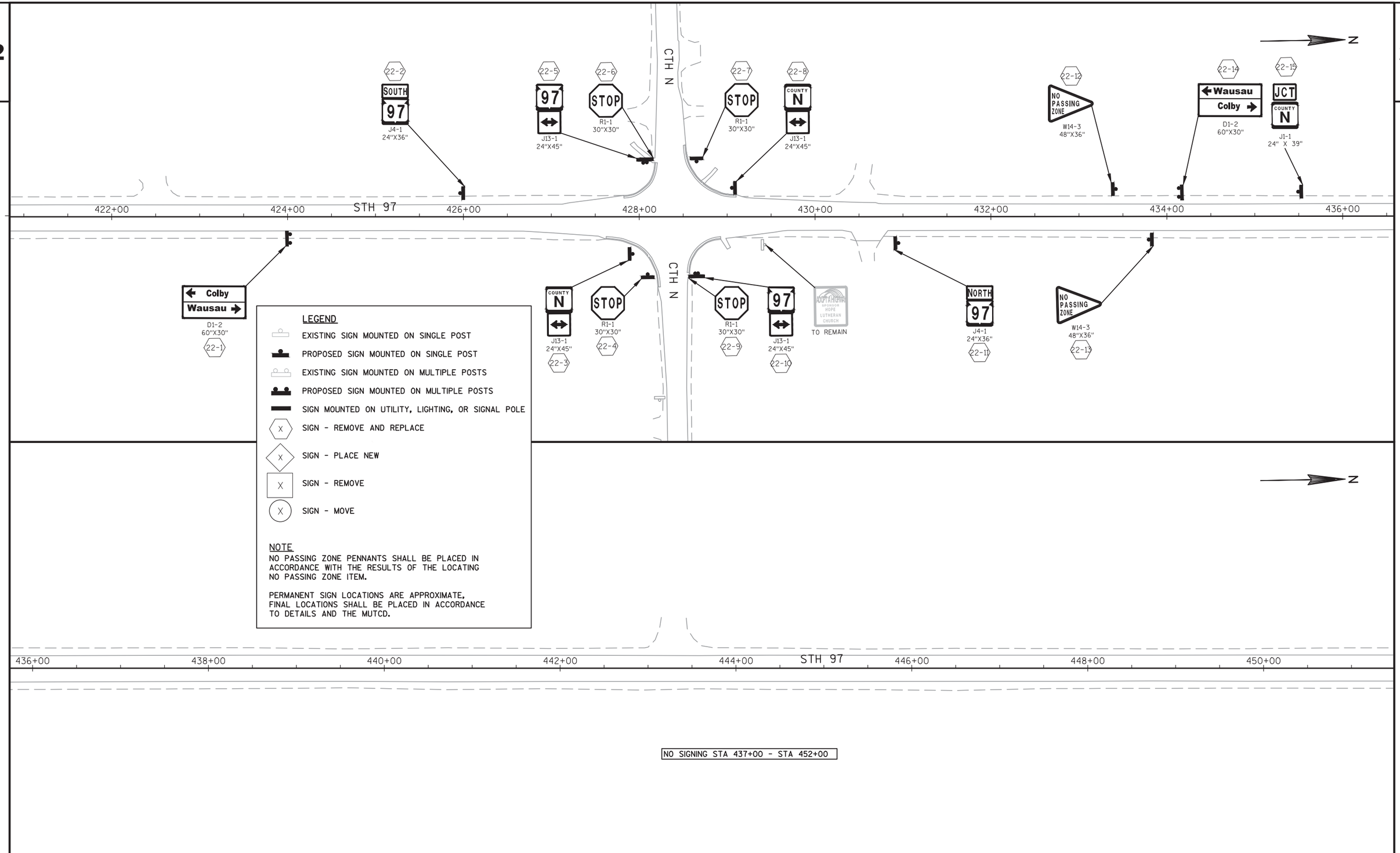
PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

N



PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 55	E

2



LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- <X> SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE

NOTE

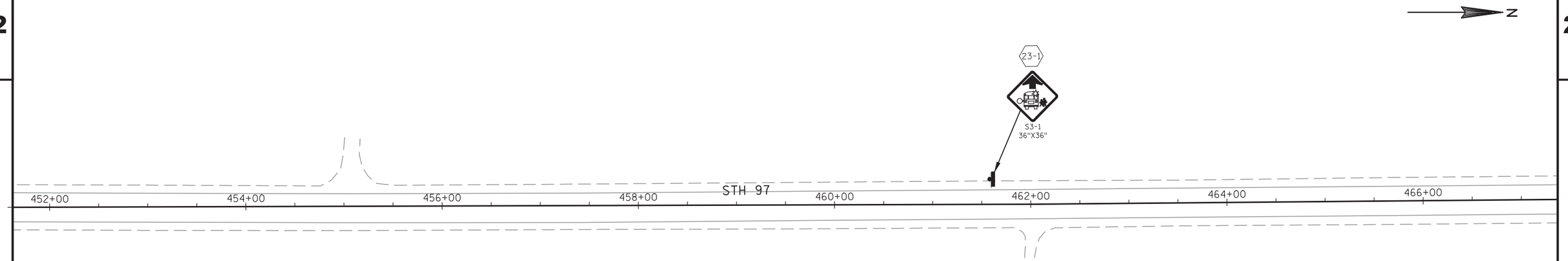
NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

NO SIGNING STA 437+00 - STA 452+00

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 56	E

2



2

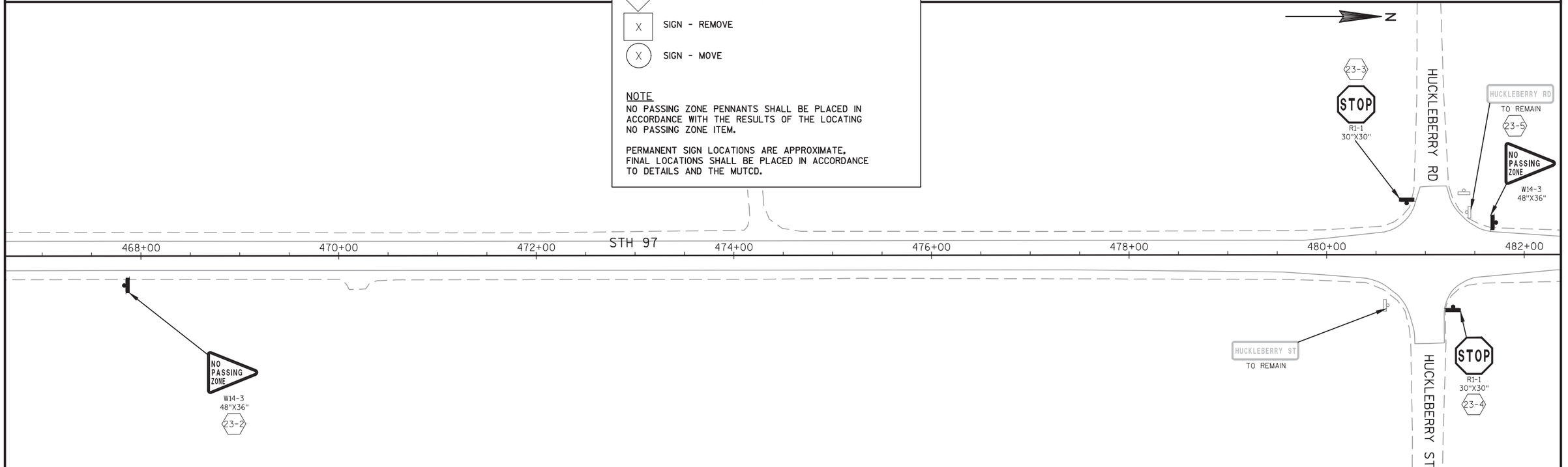
LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

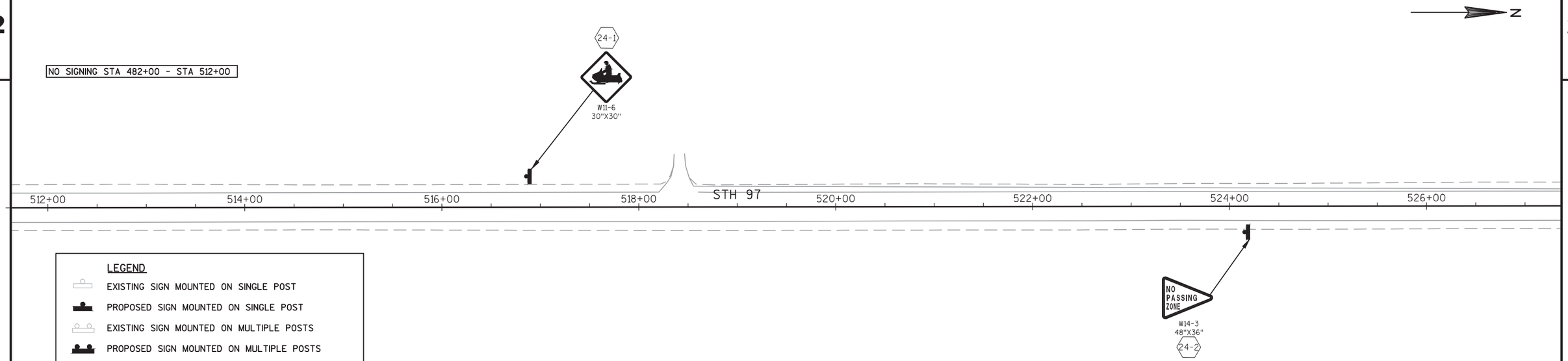
PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 57	E

2

NO SIGNING STA 482+00 - STA 512+00



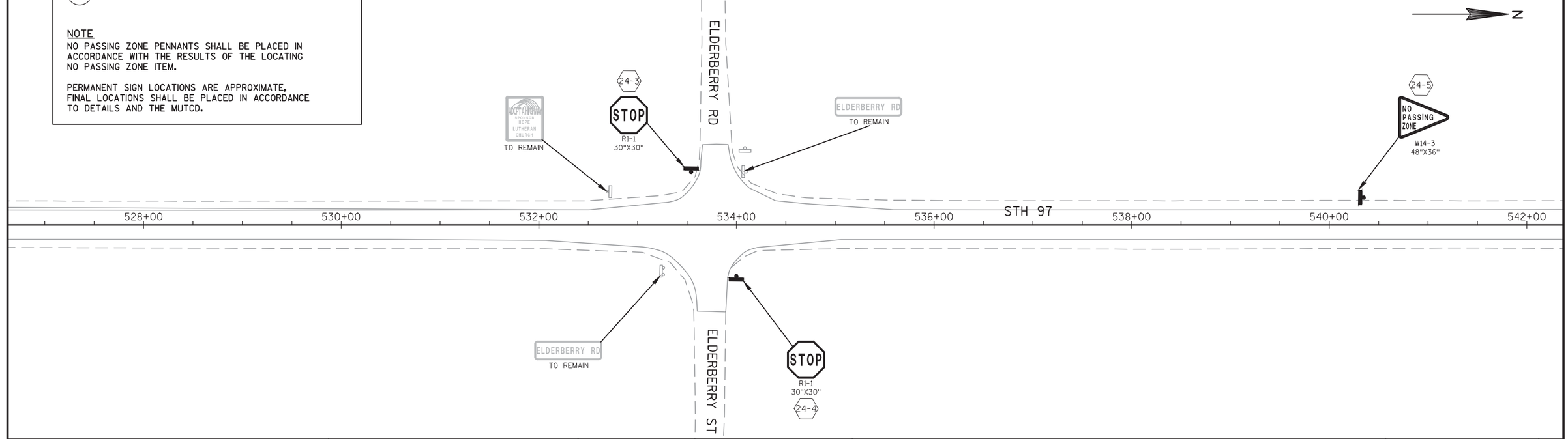
LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- (X) SIGN - REMOVE AND REPLACE
- X SIGN - PLACE NEW
- X SIGN - REMOVE
- (X) SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

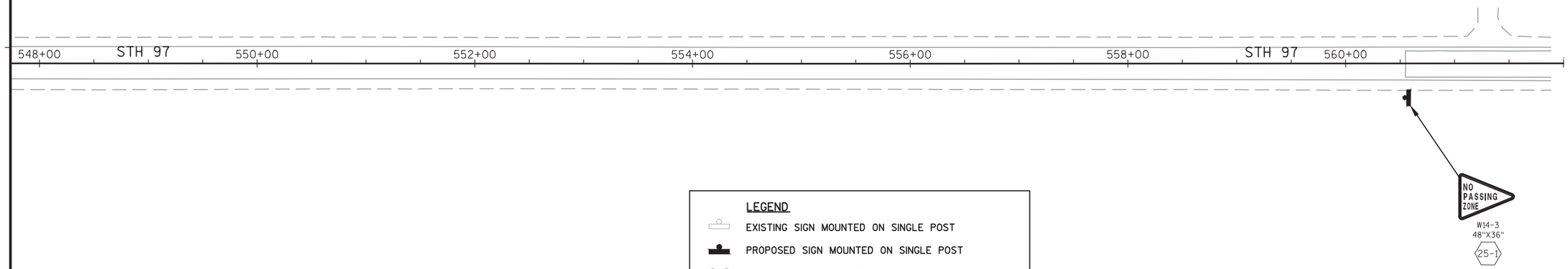
PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 58	E

NO SIGNING STA 542+00 - STA 548+00

N



LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- SIGN MOUNTED ON UTILITY, LIGHTING, OR SIGNAL POLE
- X — SIGN - REMOVE AND REPLACE
- X — SIGN - PLACE NEW
- X — SIGN - REMOVE
- X — SIGN - MOVE

NOTE

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

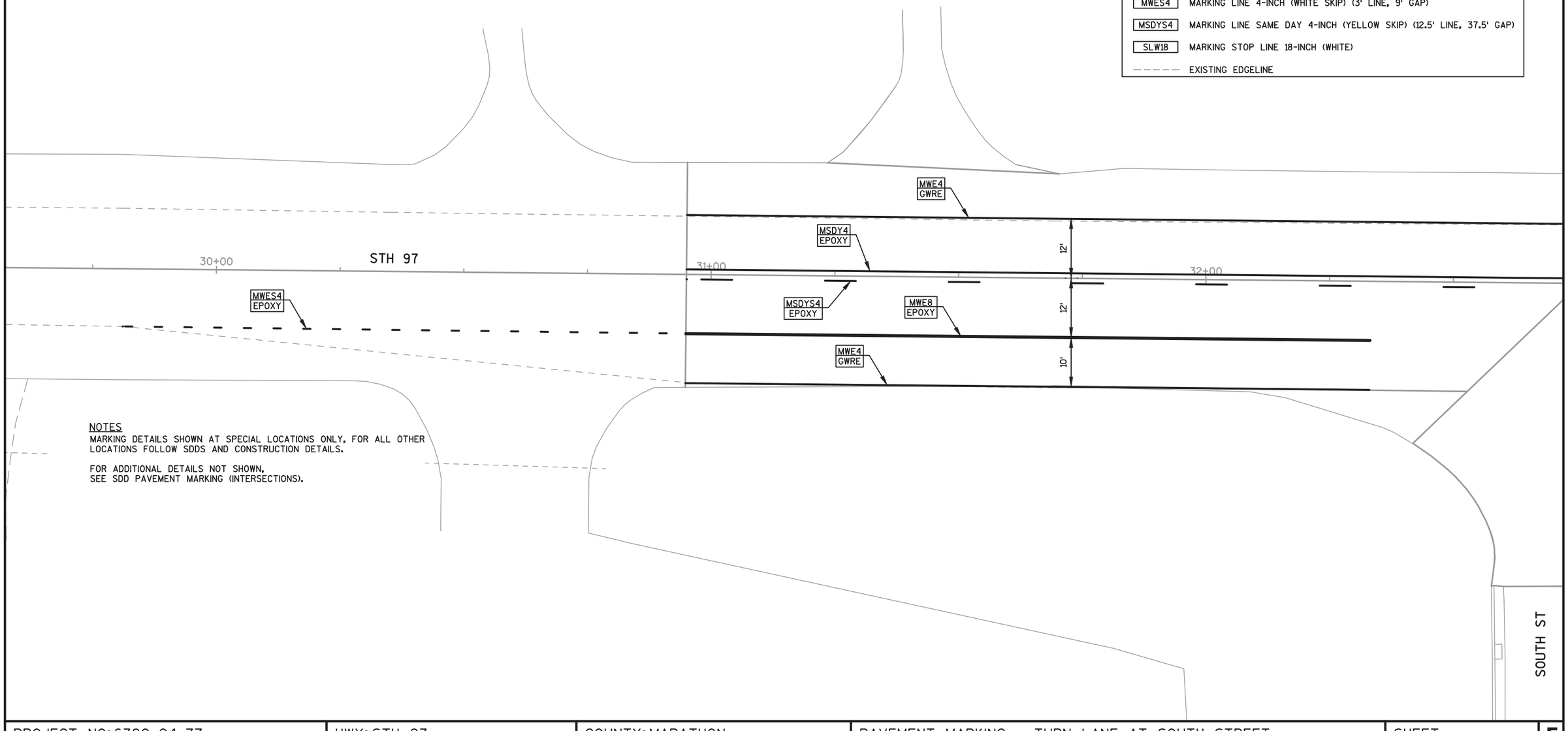
PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

2

N

LEGEND

CWW6	MARKING LINE CROSSWALK TRANSVERSE LINE 6-INCH (WHITE)
EPOXY	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MSDY4	MARKING LINE SAME DAY 4-INCH (YELLOW)
MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
MWE8	MARKING LINE 8-INCH (WHITE EDGELINE)
MWES4	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
MSDYS4	MARKING LINE SAME DAY 4-INCH (YELLOW SKIP) (12.5' LINE, 37.5' GAP)
SLW18	MARKING STOP LINE 18-INCH (WHITE)
- - - - - -	EXISTING EDGELINE



NOTES

MARKING DETAILS SHOWN AT SPECIAL LOCATIONS ONLY, FOR ALL OTHER LOCATIONS FOLLOW SDDS AND CONSTRUCTION DETAILS.

FOR ADDITIONAL DETAILS NOT SHOWN,
SEE SDD PAVEMENT MARKING (INTERSECTIONS).

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PAVEMENT MARKING - TURN LANE AT SOUTH STREET	SHEET 60	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - ****

PLOT DATE : 12/1/2017 7:19 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

N

EXTEND MARKING TO STA 7'S'+96

CBY EPOXY
(STA 8'S'+00)

MSDY4 EPOXY

SLW18 EPOXY

STH 153

CBY EPOXY

CWW6 EPOXY

CBY EPOXY

CWW6 EPOXY

CWW6 EPOXY

MWE4 GWRE

MSDYS4 EPOXY

12'

12'

58+00

MSDY4 EPOXY

SLW18 EPOXY

STH 97

59+00

MWE4 GWRE

SLW18 EPOXY

MSDY4 EPOXY

60+00

12'

12'

MSDYS4 EPOXY

MWE4 GWRE

CANOPY

CBY EPOXY

CWW6 EPOXY

CBY EPOXY

CANOPY

MSDYS4 EPOXY

SLW18 EPOXY

STH 153

MSDY4 EPOXY

(STA 12'S'+00)

CBY EPOXY

EXTEND MARKING TO STA 12'S'+05

LEGEND

CWW6	MARKING LINE CROSSWALK TRANSVERSE LINE 6-INCH (WHITE)
EPOXY	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MSDY4	MARKING LINE SAME DAY 4-INCH (YELLOW)
MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
MWE8	MARKING LINE 8-INCH (WHITE EDGELINE)
MWES4	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
MSDYS4	MARKING LINE SAME DAY 4-INCH (YELLOW SKIP) (12.5' LINE, 37.5' GAP)
SLW18	MARKING STOP LINE 18-INCH (WHITE)
CBY	MARKING CURB (YELLOW)

NOTES

MARKING DETAILS SHOWN AT SPECIAL LOCATIONS ONLY, FOR ALL OTHER LOCATIONS FOLLOW SDDS AND CONSTRUCTION DETAILS.

FOR ADDITIONAL DETAILS NOT SHOWN, SEE SDD STOPLINE AND CROSS WALK PAVEMENT MARKING AND PAVEMENT MARKING (MAINLINE).

PLACE WHITE EDGELINE THROUGH URBAN SECTION; SEE CONSTRUCTION DETAIL.

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PAVEMENT MARKING - STH 153 INTERSECTION	SHEET 61	E

2

2

LEGEND

- CONTROL CABINET
- EXISTING CONDUIT AND WIRING
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE, LIGHTING SYSTEM
- LOOP DETECTOR TO BE ABANDONED
- PULL BOX
- 1 R Y G TRAFFIC SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON (STANDARD UNLESS NOTED OTHERWISE)

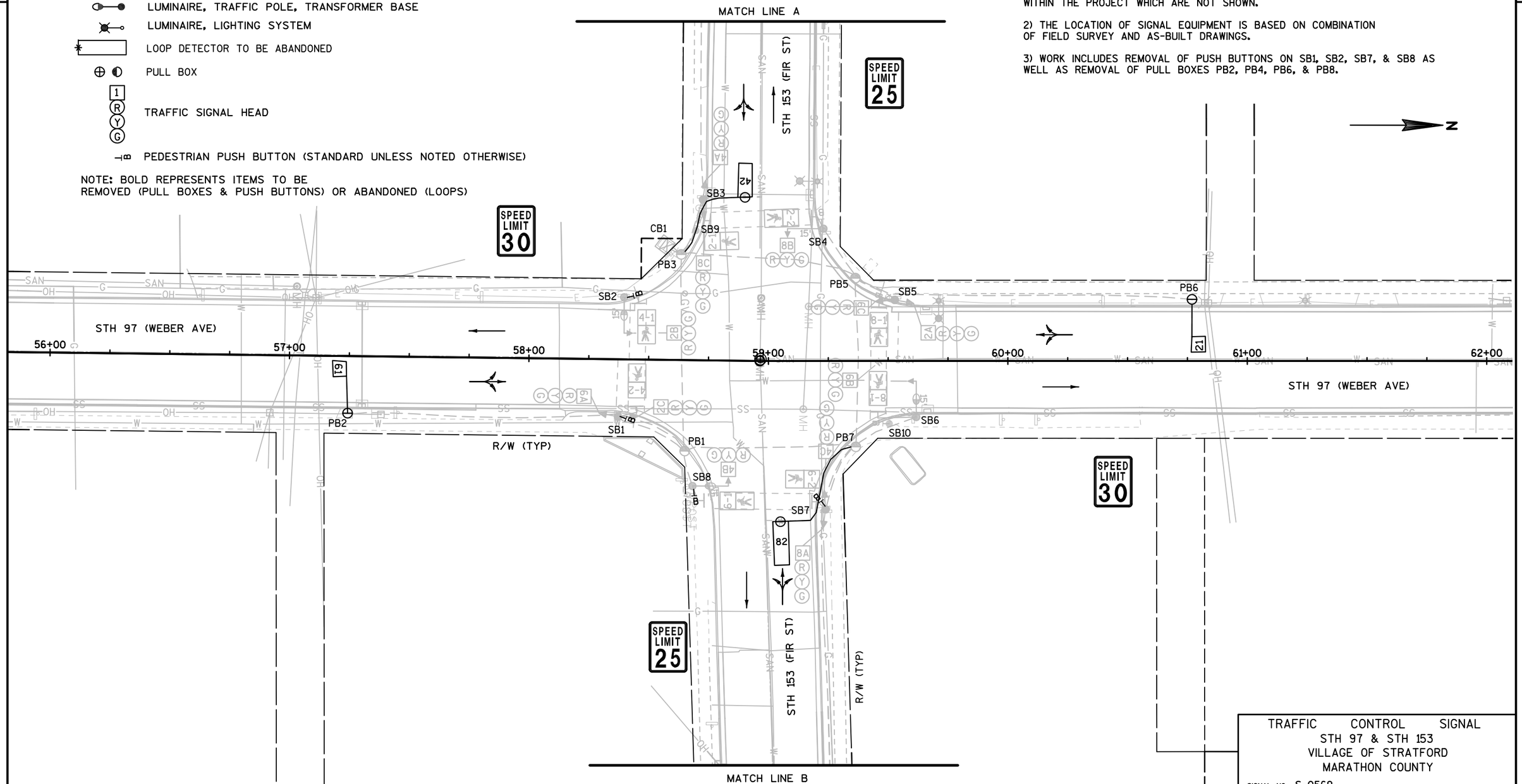
NOTE: BOLD REPRESENTS ITEMS TO BE REMOVED (PULL BOXES & PUSH BUTTONS) OR ABANDONED (LOOPS)

CONSTRUCTION NOTES:

1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

2) THE LOCATION OF SIGNAL EQUIPMENT IS BASED ON COMBINATION OF FIELD SURVEY AND AS-BUILT DRAWINGS.

3) WORK INCLUDES REMOVAL OF PUSH BUTTONS ON SB1, SB2, SB7, & SB8 AS WELL AS REMOVAL OF PULL BOXES PB2, PB4, PB6, & PB8.



TRAFFIC CONTROL SIGNAL
STH 97 & STH 153
VILLAGE OF STRATFORD
MARATHON COUNTY

SIGNAL NO. S-0569

REGION CONTACT: NC REGION
DESIGNED BY: KL ENGINEERING
REVISED BY: --------

PAGE 1 OF 2

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	TRAFFIC SIGNAL REMOVAL PLAN	SHEET	E

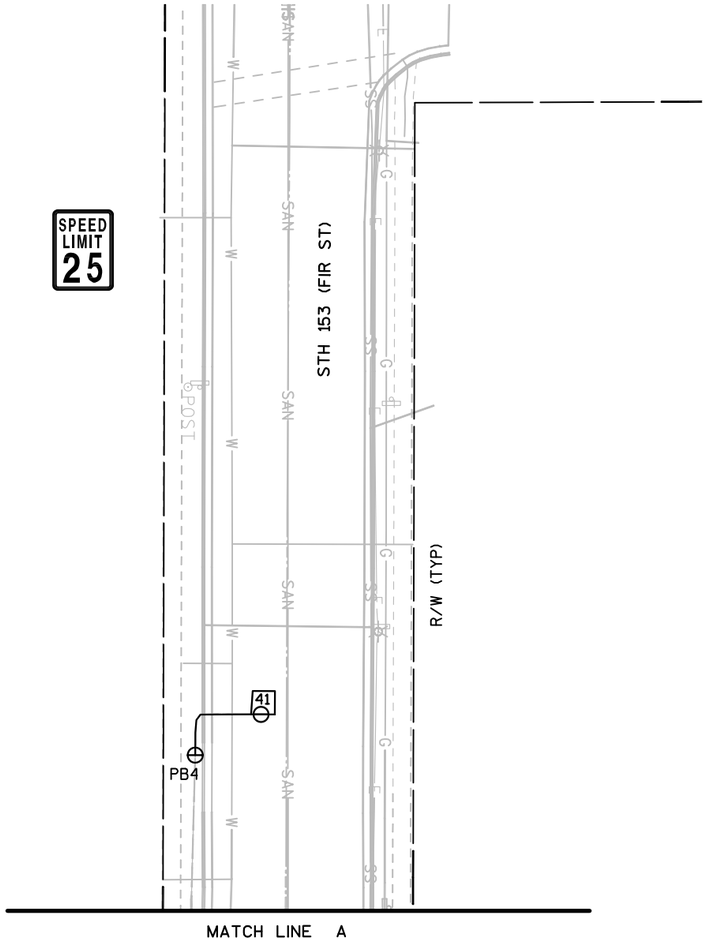
FILE NAME : G:\EMCS\14029 - STH 97\CIVIL 3D\SHEETS PLAN\024201-SR.DWG PLOT DATE : 1/26/2018 2:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

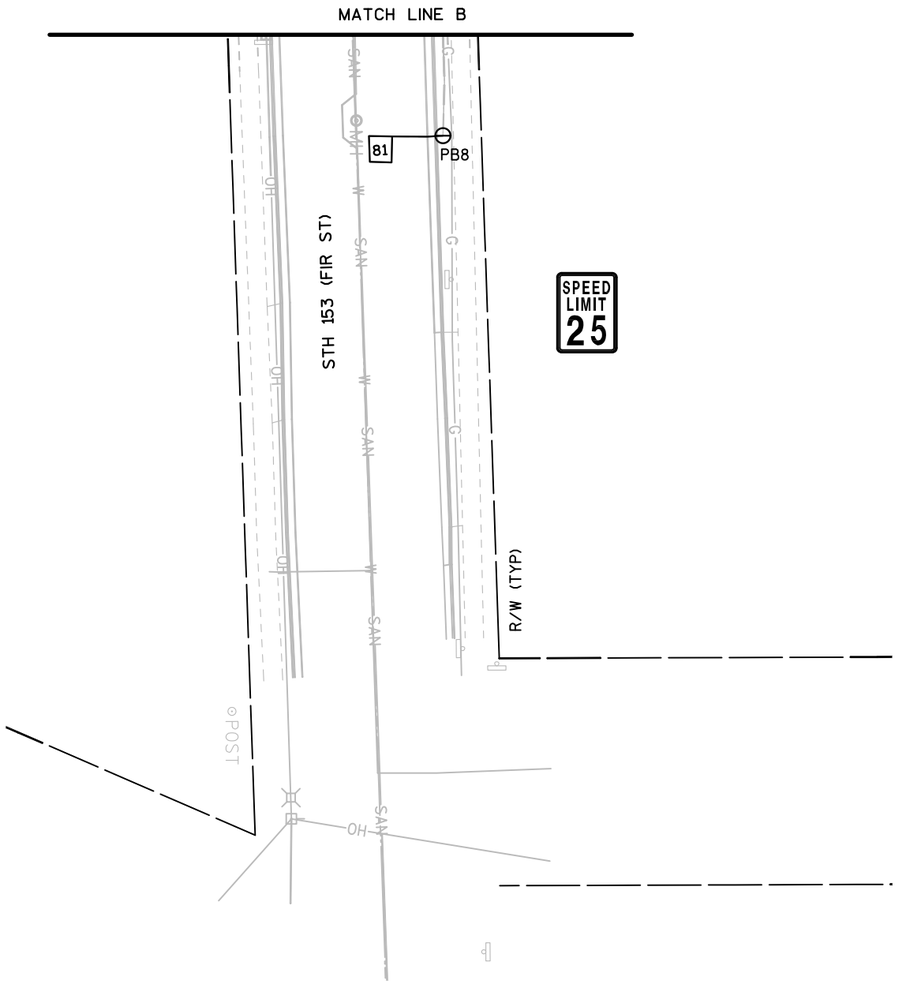
WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- EXISTING CONDUIT AND WIRING
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE, LIGHTING SYSTEM
- LOOP DETECTOR TO BE ABANDONED
- PULL BOX
- 1 R Y G TRAFFIC SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON (STANDARD UNLESS NOTED OTHERWISE)

NOTE: BOLD REPRESENTS ITEMS TO BE REMOVED (PULL BOXES & PUSH BUTTONS) OR ABANDONED (LOOPS)





TRAFFIC CONTROL SIGNAL	
STH 97 & STH 153	
VILLAGE OF STRATFORD	
MARATHON COUNTY	
SIGNAL NO. S-0569	
REGION CONTACT: NC REGION	
DESIGNED BY: KL ENGINEERING	PAGE 2 OF 2
REVISED BY: --------	

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	TRAFFIC SIGNAL REMOVAL PLAN	SHEET E

LEGEND

- CONTROL CABINET
- PULL BOX, 24" X 42"
- TRAFFIC SIGNAL HEAD
- APS PEDESTRIAN PUSH BUTTON
- PEDESTRIAN COUNTDOWN TIMER 16-INCH
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH

NOTE: GRAYSHADE REPRESENTS EXISTING ITEMS

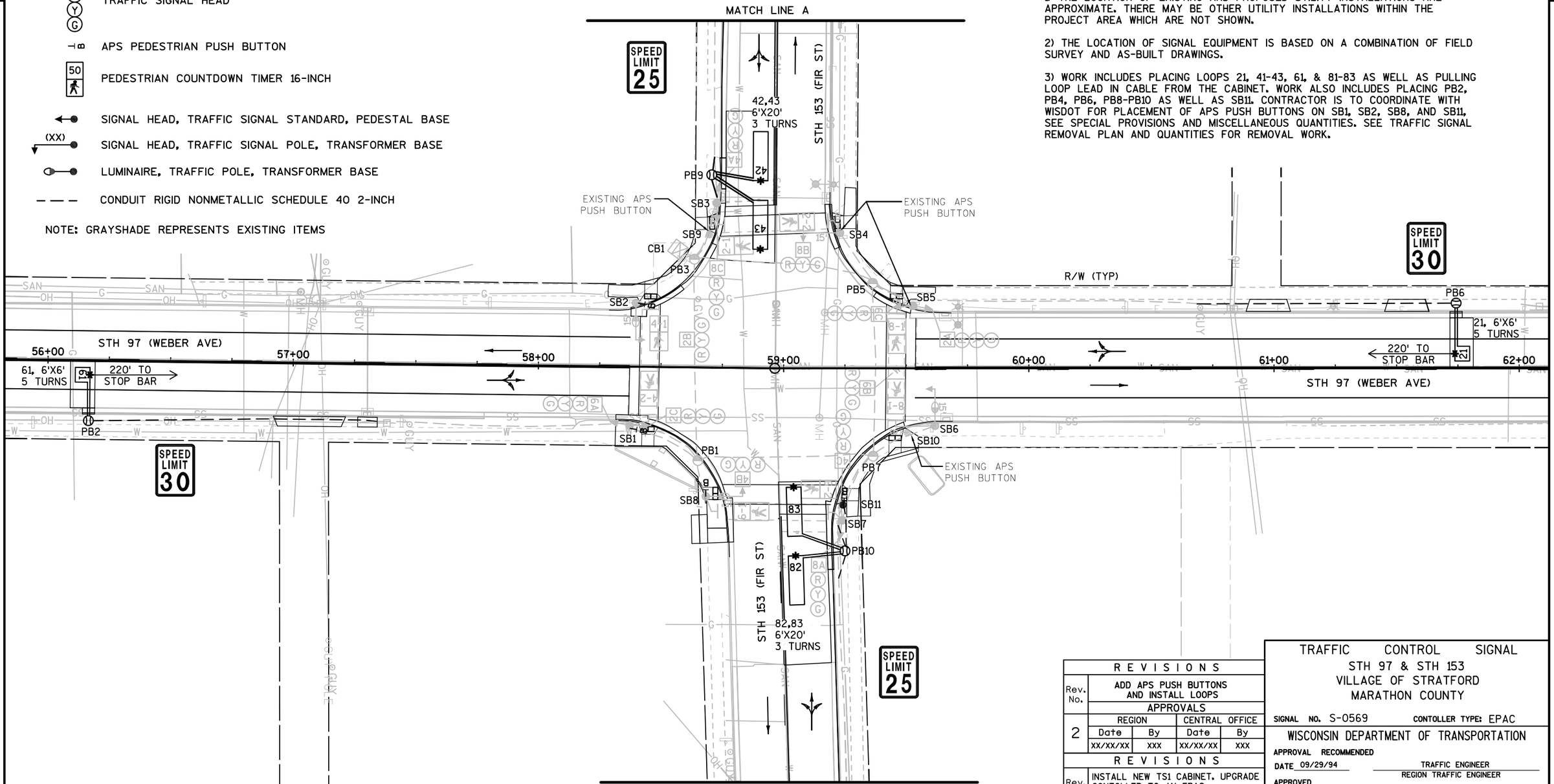
N

CONSTRUCTION NOTES:

1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

2) THE LOCATION OF SIGNAL EQUIPMENT IS BASED ON A COMBINATION OF FIELD SURVEY AND AS-BUILT DRAWINGS.

3) WORK INCLUDES PLACING LOOPS 21, 41-43, 61, & 81-83 AS WELL AS PULLING LOOP LEAD IN CABLE FROM THE CABINET. WORK ALSO INCLUDES PLACING PB2, PB4, PB6, PB8-PB10 AS WELL AS SB11. CONTRACTOR IS TO COORDINATE WITH WISDOT FOR PLACEMENT OF APS PUSH BUTTONS ON SB1, SB2, SB8, AND SB11. SEE SPECIAL PROVISIONS AND MISCELLANEOUS QUANTITIES. SEE TRAFFIC SIGNAL REMOVAL PLAN AND QUANTITIES FOR REMOVAL WORK.



REVISIONS				
Rev. No.	ADD APS PUSH BUTTONS AND INSTALL LOOPS			
	APPROVALS			
2	REGION		CENTRAL OFFICE	
	Date	By	Date	By
	XX/XX/XX	XXX	XX/XX/XX	XXX

REVISIONS				
Rev. No.	INSTALL NEW TS1 CABINET. UPGRADE CONTOLLER TO AN EPAC			
	APPROVALS			
1	REGION		CENTRAL OFFICE	
	Date	By	Date	By
	11/20/12	RLJ	01/24/12	JLB

TRAFFIC CONTROL SIGNAL
STH 97 & STH 153
VILLAGE OF STRATFORD
MARATHON COUNTY

SIGNAL NO. S-0569 CONTOLLER TYPE: EPAC

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 09/29/94 TRAFFIC ENGINEER
REGION TRAFFIC ENGINEER

APPROVED
DATE 10/06/94 R. I. MOE
STATE TRAFFIC SIGNAL ENGINEER

REGION CONTACT: NC REGION
DESIGNED BY: ------
REVISED BY: KL ENGINEERING

PAGE 1 OF 4

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	TRAFFIC SIGNAL PLAN	SHEET	E

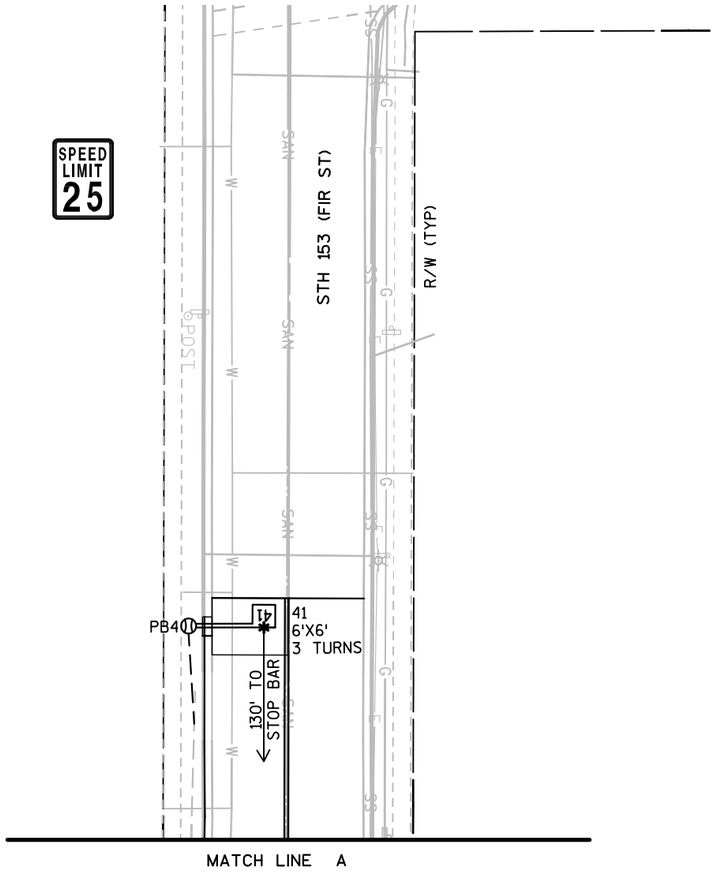
FILE NAME : G:\EMCS\14029 - STH 97\CIVIL 3D\SHEETS PLAN\024201-SP.DWG PLOT DATE : 1/26/2018 2:24 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

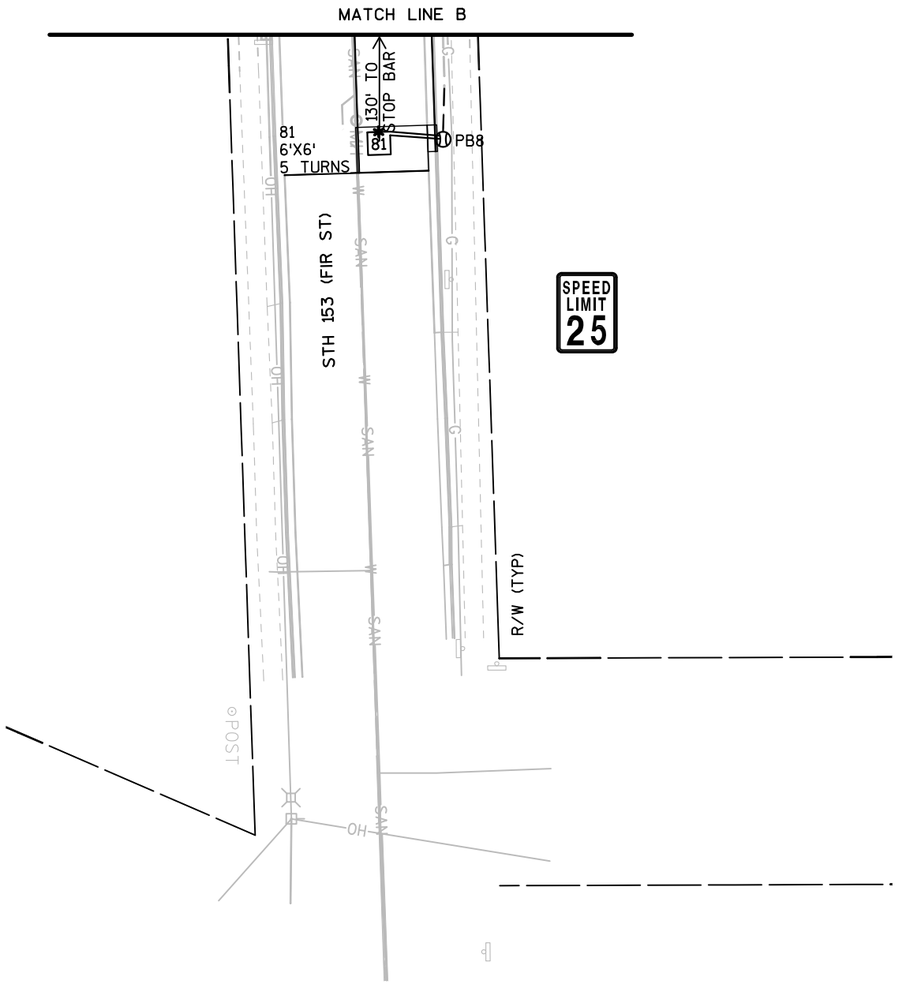
WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- PULL BOX, 24" X 42"
- TRAFFIC SIGNAL HEAD
- APS PEDESTRIAN PUSH BUTTON
- PEDESTRIAN COUNTDOWN TIMER 16-INCH
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH

NOTE: GRAYSHADE REPRESENTS EXISTING ITEMS





TRAFFIC CONTROL SIGNAL
STH 97 & STH 153
VILLAGE OF STRATFORD
MARATHON COUNTY

SIGNAL NO. S-0569

REGION CONTACT: NC REGION
DESIGNED BY: -------
REVISED BY: KL ENGINEERING

PAGE 2 OF 4

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	TRAFFIC SIGNAL PLAN	SHEET	E

FILE NAME : G:\EMCS\14029 - STH 97\CIVIL 3D\SHEETS PLAN\024201-SP.DWG PLOT DATE : 1/26/2018 2:24 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	01 R/W	01 CLEAR TO **	02 R/W	02 CLEAR TO **	03 R/W	03 CLEAR TO **	04 R/W	04 CLEAR TO **	FLASH
		NOT USED		⇦⇨		NOT USED		⇩⇧		
01										
02	2A,2B,2C			G	Y R			R	R R	R
03										
04	4A,4B,4C,			R	R R			G	Y R	R
05										
06	6A,6B,6C			R	R R			R	R R	R
07										
08	8A,8B,8C			R	R R			R	R R	R
02P	2-1,2-2			*	DW DW			DW	DW DW	
04P	4-1,4-2			DW	DW DW			*	DW DW	
06P	6-1,6-2			DW	DW DW			DW	DW DW	
08P	8-1,8-2			DW	DW DW			DW	DW DW	

RING 2

	HEAD NUMBERS	05 R/W	05 CLEAR TO **	06 R/W	06 CLEAR TO **	07 R/W	07 CLEAR TO **	08 R/W	08 CLEAR TO **	FLASH
		NOT USED		⇦⇨		NOT USED		⇩⇧		
01										
02	2A,2B,2C			R	R R			R	R R	R
03										
04	4A,4B,4C,			R	R R			R	R R	R
05										
06	6A,6B,6C			G	Y R			R	R R	R
07										
08	8A,8B,8C			R	R R			G	Y R	R
02P	2-1,2-2			DW	DW DW			DW	DW DW	
04P	4-1,4-2			DW	DW DW			DW	DW DW	
06P	6-1,6-2			*	DW DW			DW	DW DW	
08P	8-1,8-2			DW	DW DW			*	DW DW	

BARRIER

* WHEN CALLED, TIME STEADY WALK, FOLLOWED BY FLASHING DON'T WALK, THEN STEADY DON'T WALK.

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

N

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE (FTXFT)	NUMBER OF TURNS
21	1	X			2	2				6X6	5
41	2			X		4			X	6X6	3
42	3	X			4	4		X		6X20	3
43	4	X			4	4		X		6X20	3
61	5	X			6	6				6X6	5
81	6			X		8			X	6X6	5
82	7	X			8	8		X		6X20	3
83	8	X			8	8		X		6X20	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / /O	PHASE RECALL	PHASE ACTIVE
1				
2	X	W/6	MIN.	X
3				
4		W/8		X
5				
6	X	W/2	MIN.	X
7				
8		W/4		X

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	6	4,8
3		
4	8	2,6
5		
6	2	4,8
7		
8	4	2,6

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L. "A" =	-	-
O.L. "B" =	-	-
O.L. "C" =	-	-
O.L. "D" =	-	-

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-0670
SIGNAL SYSTEM #:	SS-0155

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER (GPS)	
LIFT BRIDGE	
QUEUE DETECTOR	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 ABOVE.)

TRAFFIC CONTROL SIGNAL
STH 97 & STH 153

STRATFORD MARATHON CO.

SIGNAL NO. S-0569

CONTROLLER TYPE: EPAC

Date: 01/20/12 (REVISION #2)

PROJECT NO: 6380-04-77 | HWY: STH 97 | COUNTY: MARATHON | SEQUENCE OF OPERATIONS | SHEET 66 | E

2

STH 97 AT STH 153

BASES		HEADS	CABLE	HEAD #	EQUIPMENT * GROUND	NEUTRAL	PHASE	SIGNAL INDICATION WIRE COLOR							
ORIGIN	END	JUMPER						GREEN	YELLOW	RED	<GREEN	<YELLOW	WALK	DON'T WALK	PED BUTTON
CB1	SB4		19/C	8B	WHITE/BLACK	WHITE	8	GREEN/WHITE	ORANGE/RED	RED/WHITE					
				PED2-2	WHITE/BLACK	WHITE	2								
SB4	SB5		19/C	2A	WHITE/BLACK	WHITE	2	GREEN	ORANGE	RED					
				6C	WHITE/BLACK	WHITE	6	GREEN/BLACK	ORANGE/BLACK	RED/BLACK					
				PED8-1	WHITE/BLACK	WHITE	8								
CB1	SB3		21/C	4A	WHITE/BLACK	WHITE	4	BLUE/BLACK	ORANGE/GREEN	RED/GREEN					
				8C	WHITE/BLACK	WHITE	8	GREEN/WHITE	ORANGE/RED	RED/WHITE					
				PEDS2-1	WHITE/BLACK	WHITE	2								
CB1	SB2		19/C	2B	WHITE/BLACK	WHITE	2	GREEN	ORANGE	RED					
	SB2	4-1	14/2C	PED4-1	WHITE/BLACK	WHITE	4								
CB1	SB1		21/C	2C	WHITE/BLACK	WHITE	2	GREEN	ORANGE	RED					
				6A	WHITE/BLACK	WHITE	6	GREEN/BLACK	ORANGE/BLACK	RED/BLACK					
	SB1	4-2	14/2C	PED4-2	WHITE/BLACK	WHITE	4								
SB1	SB8		21/C	4B	WHITE/BLACK	WHITE	4	BLUE/BLACK	ORANGE/GREEN	RED/GREEN					
	SB8	6-1	14/2C	PED6-1	WHITE/BLACK	WHITE	6								
CB1	SB7		19/C	4C	WHITE/BLACK	WHITE	4	BLUE/BLACK	ORANGE/GREEN	RED/GREEN					
				8A	WHITE/BLACK	WHITE	8	GREEN/WHITE	ORANGE/RED	RED/WHITE					
	SB7	6-2	14/2C	PED6-2	WHITE/BLACK	WHITE	6								
SB7	SB6		19/C	PED8-2	WHITE/BLACK	WHITE	8								
				6B	WHITE/BLACK	WHITE	6	GREEN/BLACK	ORANGE/BLACK	RED/BLACK					

ONLY 14/2C TO APS PEDESTRIAN BUTTONS ON SB1, SB2, SB7. & SB8 IS NEW/INSTALLED ON THIS PROJECT. THE REMAINING INFORMATION ON THIS CABLING CHART IS EXISTING CABLING FROM AN AS-BUILT AND NOT FIELD VERIFIED.

TRAFFIC CONTROL SIGNAL
STH 97 & STH 153
VILLAGE OF STRATFORD
MARATHON COUNTY

SIGNAL NO. S-0569

REGION CONTACT: NC REGION
DESIGNED BY: _____
REVISED BY: KL ENGINEERING

PAGE 4 OF 4

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CABLE ROUTING	SHEET	E

FILE NAME : G:\EMCS\14029 - STH 97\CIVIL 3D\SHEETS PLAN\024201-SP.DWG PLOT DATE : 1/26/2018 2:23 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

NOTE
STAGE CURB RAMP UPGRADES TO MAINTAIN PEDESTRIAN TRAFFIC. WHEN NO ALTERNATE ROUTES EXIST, DIVERSIONS FOR PEDESTRIANS INTO THE PARKING LANE WILL OCCUR. SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION".

SOUTH ST TO NORTH ST
URBAN INTERSECTIONS EXCEPT STH 153
(3) (4)

BEGIN PROJECT
STA 30+95.00

ROAD WORK NEXT 10 MILES
G20-1
60"X24"

(1)

SOUTH ST

(4) (4)

SEE THE CONSTRUCTION DETAILS FOR ADDITIONAL TRAFFIC CONTROL INFORMATION TO REPLACE THE CULVERTS

CONNOR MILL CREEK

STH 153

(1) *

(1) *

*PLACE M1-6 FOR STH 97 ON ADVANCED SIGNING POSTED ON STH 153

W NORTH ST

E NORTH ST

50+00 75+00 100+00

(2)

NORTH LIMIT RD

FUR FOOD RD

VILLAGE OF STRATFORD

BIG EAU PLEINE RIVER

EQUITY ST

(2)

125+00

STH 97

(4)

SEE THE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TRAFFIC CONTROL INFORMATION FOR THE B-37-0248 POLYMER OVERLAY

TOWN OF EAU PLEINE

ROCK LN

(2)

ROCK RD

(2)

150+00 175+00

(2)

KAISER RD

200+00

BIG RAPIDS ST

(2)

BIG RAPIDS RD

(2)

225+00

ROAD WORK NEXT 4 MILES
G20-1
60"X24"

250+00

(2)

CTH P

275+00

(2)

CTH P

ROAD WORK NEXT 5 MILES
G20-1
60"X24"

300+00

N

TOWN OF CLEVELAND

LEGEND

(1) PLACE TRAFFIC CONTROL SIGNS PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

(2) PLACE SIGNS PER THE "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

(3) PLACE SIGNS PER THE "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

(4) PLACE TRAFFIC CONTROL SIGNS AND DRUMS PER SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVDED ROADWAY" DURING WORK FOR GUARDRAIL, CULVERTS, CURB & GUTTER REPLACEMENTS, AND CURB RAMP UPGRADES.

TOWN OF FRANKFORT

BLACKBERRY RD

(2)

BLACKBERRY ST

(2)

300+00 325+00

(4)

SEE CONSTRUCTION DETAILS FOR ADDITIONAL TRAFFIC CONTROL INFORMATION TO REMOVE OLD STRUCTURE C-37-9018

350+00

BLUEBERRY RD

(2)

BLUEBERRY ST

(2)

375+00

ROAD WORK NEXT 7 MILES
G20-1
60"X24"

400+00

STH 97

CTH N

(2)

CTH N

(2)

425+00

ROAD WORK NEXT 2 MILES
G20-1
60"X24"

450+00

HUCKLEBERRY RD

(2)

HUCKLEBERRY ST

(2)

475+00

500+00

ELDERBERRY RD

(2)

ELDERBERRY ST

(2)

525+00

END PROJECT
STA 560+55.05

550+00

ROAD WORK NEXT 10 MILES
G20-1
60"X24"

(1)

STH 29

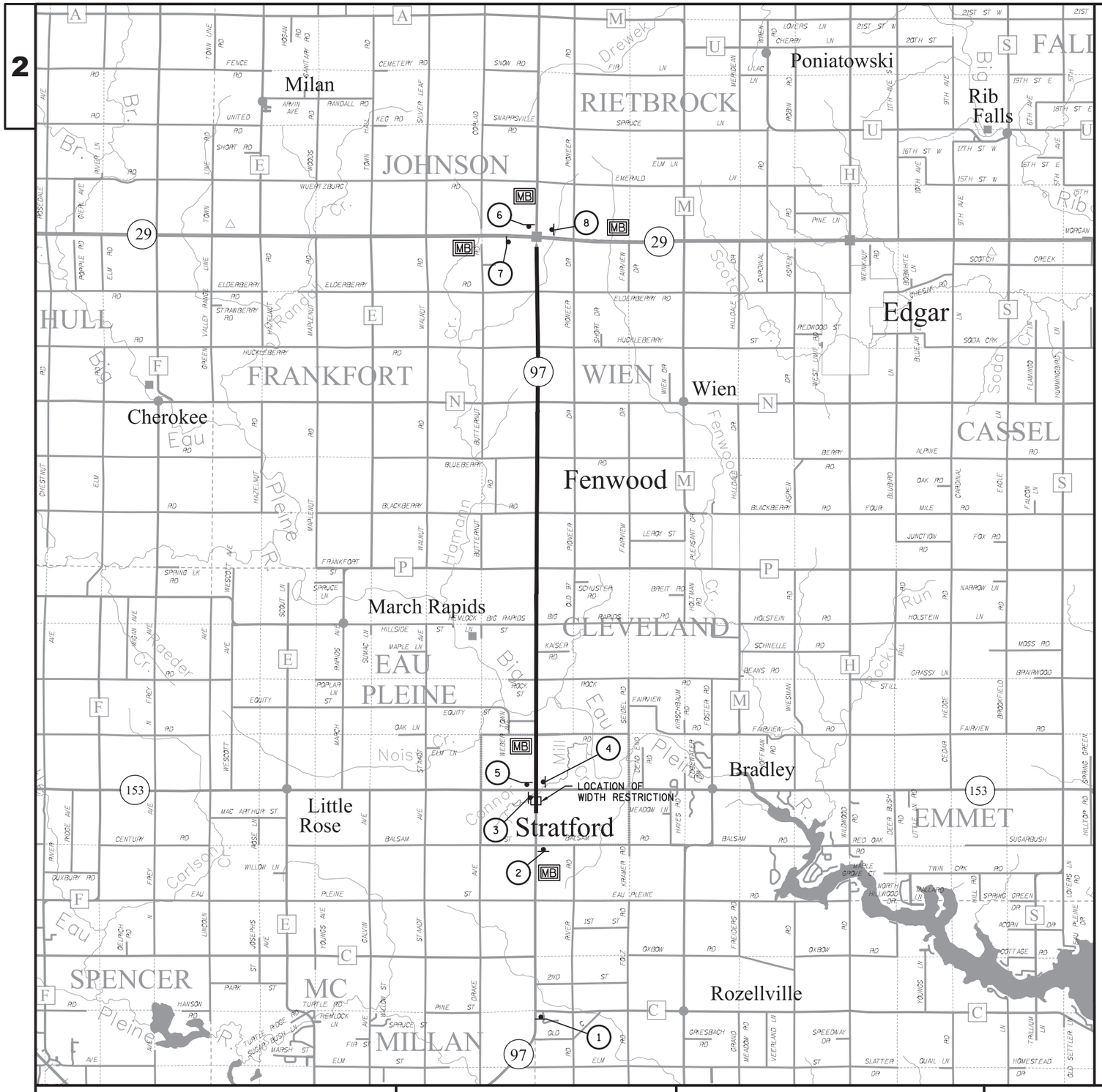
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TOWN OF WIEN

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	TRAFFIC CONTROL - OVERVIEW	SHEET 68	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\025000-TC.DWG PLOT DATE : 3/12/2018 2:16 PM PLOT BY : STEPHANIE CHRISTENSEN PLOT NAME :

WISDOT/CADDS SHEET 42



N

NOTES FOR WIDTH RESTRICTION AT CULVERT REPLACEMENT AT STA 47+75

POST THE WIDTH RESTRICTION ADVANCED WARNING SIGNS AT THE LOCATIONS PROVIDED.

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

* PLACE SIGN M1-6 AND M3-3 WHEN ASSEMBLY IS MOUNTED ON (3) (4) (7) (8) ALL ROADWAYS OTHER THAN STH 97.

* ADJUST TRAFFIC CONTROL PCMS MESSAGE AS NEEDED BASED ON CONSTRUCTION SCHEDULE.

CONSIDER GEOMETRICS WHEN LOCATING TRAFFIC CONTROL PCMS SO THE DRIVER HAS A CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 500 FEET IN FRONT OF THE MESSAGE BOARD. PLACE TRAFFIC CONTROL PCMS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY.

PLACE TRAFFIC CONTROL SIGNS PCMS AND DISPLAY THE MESSAGE 7 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK. ADJUST THE MESSAGE DATE ACCORDINGLY.

LEGEND

- SIGN SUPPORT
- MB — TRAFFIC CONTROL SIGN PCMS

* SOUTH
M3-3
24"X12"

* 97
M1-6
24"X24"

MAX. 13' WIDTH
W12-52
48"X48"

XX MILES AHEAD
W057-52
48"X36"

PLACE ABOVE SIGNS AT ALL LOCATIONS DURING CULVERT REPLACEMENTS, SEE CONSTRUCTION DETAILS FOR MORE INFORMATION WHEN WIDTH RESTRICTIONS ARE ANTICIPATED

1. STH 97/CTH C INTERSECTION - 4 MILES AHEAD
2. STH 97/BALSAM RD INTERSECTION - 1/2 MILES AHEAD
3. STH 97/STH 153 INTERSECTION - 1/4 MILES AHEAD
4. STH 97/STH 153 INTERSECTION - 1/4 MILES AHEAD
5. STH 97/STH 153 INTERSECTION - 1/4 MILES AHEAD
6. STH 29/STH 97 INTERSECTION - 10 1/4 MILES AHEAD
7. STH 29/STH 97 INTERSECTION - 10 1/2 MILES AHEAD
8. STH 29/STH 97 INTERSECTION - 10 1/2 MILES AHEAD

TRAFFIC CONTROL SIGNS PCMS MESSAGES

PCMS SIGN LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
STH 97 NB 0.7 MILES SOUTH OF STH 153	ROAD WORK BEGINS	* STARTING DATE
STH 29 EB 0.3 MILES WEST OF STH 97 EXIT RAMP	HWY 97 ROAD WORK BEGINS	* STARTING DATE
STH 29 WB 0.3 MILES EAST OF STH 97 EXIT RAMP	HWY 97 ROAD WORK BEGINS	* STARTING DATE
STH 97 SB 0.1 MILE NORTH OF STH 29 ENTRANCE RAMP	ROAD WORK BEGINS	* STARTING DATE
STH 97 NB 0.7 MILES SOUTH OF STH 153	ONE LANE ROAD AHEAD	BE PREPARED TO STOP
STH 97 SB 0.6 MILES NORTH OF STH 153	ONE LANE ROAD AHEAD	BE PREPARED TO STOP

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	TRAFFIC CONTROL - PCMS OVERVIEW AND WIDTH RESTRICTION	SHEET 69	E



NOTES FOR WIDTH RESTRICTION AT CATTLE PASS REMOVAL (C-37-9018)

POST THE WIDTH RESTRICTION ADVANCED WARNING SIGNS AT THE LOCATIONS PROVIDED.

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

* PLACE SIGN M1-6 AND M3-1 OR M3-3 WHEN ASSEMBLY IS MOUNTED ON ALL ROADWAYS OTHER THAN STH 97. (2) (3) (5) (6)

LEGEND

▶ SIGN SUPPORT

(2) (3) * NORTH M3-1 24"X12" OR (5) (6) * SOUTH M3-3 24"X12"

* 97 M1-6 24"X24"

MAX. 14' WIDTH W12-52 48"X48"

XX MILES AHEAD W057-52 48"X36"

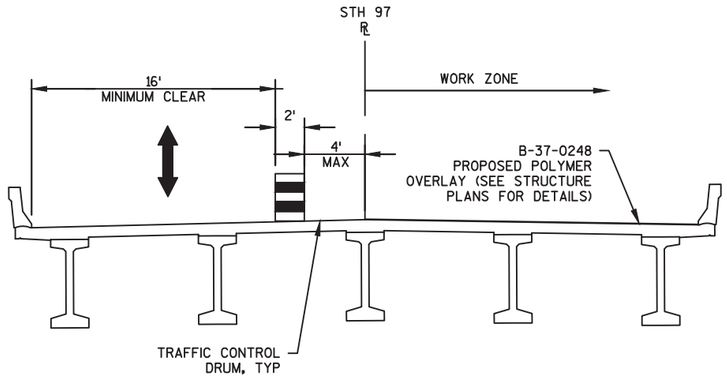
PLACE ABOVE SIGNS AT ALL LOCATIONS DURING CULVERT REMOVAL, SEE CONSTRUCTION DETAILS FOR MORE INFORMATION WHEN WIDTH RESTRICTIONS ARE ANTICIPATED

(1)	STH 97/STH 153 INTERSECTION - 5 1/2 MILES AHEAD
(2)	STH 97/STH 153 INTERSECTION - 5 1/2 MILES AHEAD
(3)	STH 97/STH 153 INTERSECTION - 5 1/2 MILES AHEAD
(4)	STH 29/STH 97 INTERSECTION - 4 1/2 MILES AHEAD
(5)	STH 29/STH 97 INTERSECTION - 4 1/2 MILES AHEAD
(6)	STH 29/STH 97 INTERSECTION - 4 1/2 MILES AHEAD
(7)	STH 97/CTH N INTERSECTION - 1 1/2 MILES AHEAD

TRAFFIC CONTROL SIGNS PCMS MESSAGES

PCMS SIGN LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
STH 97 NB 500-FEET NORTH OF CTH P	ONE LANE ROAD AHEAD	BE PREPARED TO STOP
STH 97 SB 500-FEET SOUTH OF CTH N	ONE LANE ROAD AHEAD	BE PREPARED TO STOP

2



TRAFFIC CONTROL TYPICAL SECTION - STAGE 1

STH 97

CONSTRUCT POLYMER OVERLAY ON NB STH 97

NOTES

MIRROR THE TRAFFIC CONTROL TYPICAL SECTION FOR STAGE 2 CONSTRUCTION (POLYMER OVERLAY ON SB STH 97).

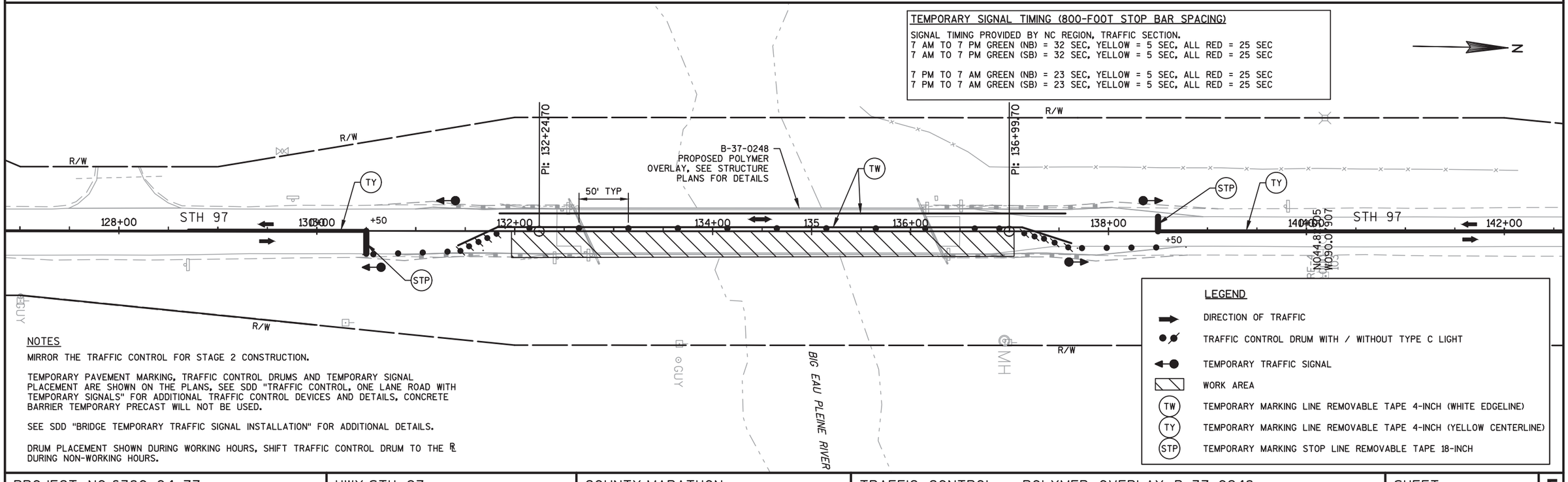
SEE SDD "TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS" FOR ADDITIONAL DETAILS.

DRUM PLACEMENT SHOWN DURING WORKING HOURS, SHIFT TRAFFIC CONTROL DRUM TO THE ℄ DURING NON-WORKING HOURS.

TEMPORARY SIGNAL TIMING (800-FOOT STOP BAR SPACING)

SIGNAL TIMING PROVIDED BY NC REGION, TRAFFIC SECTION.
7 AM TO 7 PM GREEN (NB) = 32 SEC, YELLOW = 5 SEC, ALL RED = 25 SEC
7 AM TO 7 PM GREEN (SB) = 32 SEC, YELLOW = 5 SEC, ALL RED = 25 SEC

7 PM TO 7 AM GREEN (NB) = 23 SEC, YELLOW = 5 SEC, ALL RED = 25 SEC
7 PM TO 7 AM GREEN (SB) = 23 SEC, YELLOW = 5 SEC, ALL RED = 25 SEC



NOTES

MIRROR THE TRAFFIC CONTROL FOR STAGE 2 CONSTRUCTION.

TEMPORARY PAVEMENT MARKING, TRAFFIC CONTROL DRUMS AND TEMPORARY SIGNAL PLACEMENT ARE SHOWN ON THE PLANS, SEE SDD "TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS" FOR ADDITIONAL TRAFFIC CONTROL DEVICES AND DETAILS, CONCRETE BARRIER TEMPORARY PRECAST WILL NOT BE USED.

SEE SDD "BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION" FOR ADDITIONAL DETAILS.

DRUM PLACEMENT SHOWN DURING WORKING HOURS, SHIFT TRAFFIC CONTROL DRUM TO THE ℄ DURING NON-WORKING HOURS.

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	TRAFFIC CONTROL - POLYMER OVERLAY B-37-0248	SHEET 71	E

6380-04-77

Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	10.000	10.000
0004	201.0220	Grubbing	ID	10.000	10.000
0006	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0008	203.0200	Removing Old Structure (station) 01. STA 348+58	LS	1.000	1.000
0010	204.0100	Removing Pavement	SY	1,108.000	1,108.000
0012	204.0105	Removing Pavement Butt Joints	SY	10.000	10.000
0014	204.0109.S	Removing Concrete Surface Partial Depth	SF	17,805.000	17,805.000
0016	204.0110	Removing Asphaltic Surface	SY	620.000	620.000
0018	204.0115	Removing Asphaltic Surface Butt Joints	SY	45.000	45.000
0020	204.0125	Removing Asphaltic Surface Milling	TON	34,500.000	34,500.000
0022	204.0150	Removing Curb & Gutter	LF	1,160.000	1,160.000
0024	204.0155	Removing Concrete Sidewalk	SY	685.000	685.000
0026	204.0165	Removing Guardrail	LF	69.000	69.000
0028	204.0210	Removing Manholes	EACH	1.000	1.000
0030	204.0245	Removing Storm Sewer (size) 01. 24-Inch	LF	42.000	42.000
0032	204.0280	Sealing Pipes	EACH	1.000	1.000
0034	204.9060.S	Removing (item description) 01. Pedestrian Push Button	EACH	4.000	4.000
0036	205.0100	Excavation Common	CY	251.000	251.000
0038	208.0100	Borrow	CY	14.000	14.000
0040	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6380-04-77	LS	1.000	1.000
0042	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	25.000	25.000
0044	213.0100	Finishing Roadway (project) 01. 6380-04-77	EACH	1.000	1.000
0046	305.0110	Base Aggregate Dense 3/4-Inch	TON	7,510.000	7,510.000
0048	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,105.000	1,105.000
0050	305.0500	Shaping Shoulders	STA	881.000	881.000
0052	390.0201	Base Patching Asphaltic	TON	20.000	20.000
0054	416.0160	Concrete Driveway 6-Inch	SY	120.000	120.000
0056	416.0260	Concrete Driveway HES 6-Inch	SY	190.000	190.000
0058	416.0610	Drilled Tie Bars	EACH	680.000	680.000
0060	440.4410	Incentive IRI Ride	DOL	40,000.000	40,000.000
0062	455.0605	Tack Coat	GAL	23,314.000	23,314.000
0064	460.2005	Incentive Density PWL HMA Pavement	DOL	26,390.000	26,390.000
0066	460.2010	Incentive Air Voids HMA Pavement	DOL	35,565.000	35,565.000
0068	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	52,555.000	52,555.000
0070	460.5224	HMA Pavement 4 LT 58-28 S	TON	18,535.000	18,535.000
0072	460.5225	HMA Pavement 5 LT 58-28 S	TON	17,030.000	17,030.000
0074	465.0110	Asphaltic Surface Patching	TON	428.000	428.000
0076	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	12.000	12.000
0078	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	40,055.000	40,055.000

6380-04-77

Line	Item	Item Description	Unit	Total	Qty
0080	502.3210	Pigmented Surface Sealer	SY	285.000	285.000
0082	509.5100.S	Polymer Overlay	SY	1,722.000	1,722.000
0084	509.9050.S	Cleaning Parapets	LF	720.000	720.000
0086	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	112.000	112.000
0088	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	116.000	116.000
0090	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0092	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0094	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	906.000	906.000
0096	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	402.000	402.000
0098	601.0600	Concrete Curb Pedestrian	LF	33.000	33.000
0100	602.0410	Concrete Sidewalk 5-Inch	SF	13,485.000	13,485.000
0102	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	430.000	430.000
0104	602.0615	Curb Ramp Detectable Warning Field Radial Natural Patina	SF	86.000	86.000
0106	606.0200	Riprap Medium	CY	45.000	45.000
0108	611.8110	Adjusting Manhole Covers	EACH	16.000	16.000
0110	611.8120.S	Cover Plates Temporary	EACH	31.000	31.000
0112	614.0010	Barrier System Grading Shaping Finishing	EACH	5.000	5.000
0114	614.0340	Steel Plate Beam Guard Over Low-Fill Culverts Class A	LF	100.000	100.000
0116	614.0345	Steel Plate Beam Guard Short Radius	LF	25.000	25.000
0118	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	1.000	1.000
0120	614.0390	Steel Plate Beam Guard Short Radius Terminal	EACH	1.000	1.000
0122	614.0920	Salvaged Rail	LF	525.000	525.000
0124	614.0925	Salvaged Guardrail End Treatments	EACH	8.000	8.000
0126	614.2300	MGS Guardrail 3	LF	312.500	312.500
0128	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0130	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0132	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6380-04-77	EACH	1.000	1.000
0134	619.1000	Mobilization	EACH	1.000	1.000
0136	621.0100	Landmark Reference Monuments	EACH	72.000	72.000
0138	624.0100	Water	MGAL	170.000	170.000
0140	625.0100	Topsoil	SY	6,000.000	6,000.000
0142	628.1504	Silt Fence	LF	2,275.000	2,275.000
0144	628.1520	Silt Fence Maintenance	LF	2,275.000	2,275.000
0146	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0148	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0150	628.2004	Erosion Mat Class I Type B	SY	3,800.000	3,800.000
0152	628.2006	Erosion Mat Urban Class I Type A	SY	2,500.000	2,500.000

6380-04-77

Line	Item	Item Description	Unit	Total	Qty
0154	628.2027	Erosion Mat Class II Type C	SY	650.000	650.000
0156	628.7015	Inlet Protection Type C	EACH	70.000	70.000
0158	628.7020	Inlet Protection Type D	EACH	12.000	12.000
0160	628.7504	Temporary Ditch Checks	LF	200.000	200.000
0162	628.7555	Culvert Pipe Checks	EACH	15.000	15.000
0164	628.7570	Rock Bags	EACH	110.000	110.000
0166	629.0210	Fertilizer Type B	CWT	2.500	2.500
0168	630.0130	Seeding Mixture No. 30	LB	60.000	60.000
0170	630.0140	Seeding Mixture No. 40	LB	60.000	60.000
0172	631.0300	Sod Water	MGAL	40.000	40.000
0174	633.5200	Markers Culvert End	EACH	4.000	4.000
0176	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	95.000	95.000
0178	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	92.000	92.000
0180	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	13.000	13.000
0182	637.2210	Signs Type II Reflective H	SF	818.140	818.140
0184	637.2215	Signs Type II Reflective H Folding	SF	29.840	29.840
0186	637.2230	Signs Type II Reflective F	SF	371.000	371.000
0188	638.2102	Moving Signs Type II	EACH	1.000	1.000
0190	638.2602	Removing Signs Type II	EACH	195.000	195.000
0192	638.3000	Removing Small Sign Supports	EACH	189.000	189.000
0194	642.5201	Field Office Type C	EACH	1.000	1.000
0196	643.0300	Traffic Control Drums	DAY	2,760.000	2,760.000
0198	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0200	643.0410	Traffic Control Barricades Type II	DAY	1,410.000	1,410.000
0202	643.0420	Traffic Control Barricades Type III	DAY	7.000	7.000
0204	643.0705	Traffic Control Warning Lights Type A	DAY	14.000	14.000
0206	643.0715	Traffic Control Warning Lights Type C	DAY	70.000	70.000
0208	643.0900	Traffic Control Signs	DAY	11,860.000	11,860.000
0210	643.1050	Traffic Control Signs PCMS	DAY	58.000	58.000
0212	643.1070	Traffic Control Cones 42-Inch	DAY	300.000	300.000
0214	643.5000	Traffic Control	EACH	1.000	1.000
0216	644.1420.S	Temporary Pedestrian Surface Plywood	SF	1,050.000	1,050.000
0218	644.1601.S	Temporary Curb Ramp	EACH	16.000	16.000
0220	644.1616.S	Temporary Pedestrian Safety Fence	LF	850.000	850.000
0222	645.0120	Geotextile Type HR	SY	120.000	120.000
0224	646.1020	Marking Line Epoxy 4-Inch	LF	57,900.000	57,900.000
0226	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	89,335.000	89,335.000
0228	646.3020	Marking Line Epoxy 8-Inch	LF	340.000	340.000
0230	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	55,840.000	55,840.000
0232	646.6120	Marking Stop Line Epoxy 18-Inch	LF	340.000	340.000

6380-04-77

Line	Item	Item Description	Unit	Total	Qty
0234	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,030.000	2,030.000
0236	646.7520	Marking Crosswalk Epoxy Ladder Pattern 24-Inch	LF	185.000	185.000
0238	646.8120	Marking Curb Epoxy	LF	570.000	570.000
0240	648.0100	Locating No-Passing Zones	MI	10.030	10.030
0242	649.0105	Temporary Marking Line Paint 4-Inch	LF	55,840.000	55,840.000
0244	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	4,000.000	4,000.000
0246	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000	24.000
0248	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	675.000	675.000
0250	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000
0252	650.8000	Construction Staking Resurfacing Reference	LF	52,960.000	52,960.000
0254	650.8500	Construction Staking Electrical Installations (project) 01. 6380-04-77	LS	1.000	1.000
0256	650.9910	Construction Staking Supplemental Control (project) 01. 6380-04-77	LS	1.000	1.000
0258	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	355.000	355.000
0260	652.0800	Conduit Loop Detector	LF	584.000	584.000
0262	653.0140	Pull Boxes Steel 24x42-Inch	EACH	6.000	6.000
0264	653.0905	Removing Pull Boxes	EACH	4.000	4.000
0266	654.0101	Concrete Bases Type 1	EACH	1.000	1.000
0268	655.0700	Loop Detector Lead In Cable	LF	1,665.000	1,665.000
0270	655.0800	Loop Detector Wire	LF	2,092.000	2,092.000
0272	657.0100	Pedestal Bases	EACH	1.000	1.000
0274	657.0405	Traffic Signal Standards Aluminum 3.5-FT	EACH	1.000	1.000
0276	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-37-0248	LS	1.000	1.000
0278	690.0150	Sawing Asphalt	LF	1,267.000	1,267.000
0280	690.0250	Sawing Concrete	LF	2,764.000	2,764.000
0282	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0284	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,260.000	1,260.000
0286	SPV.0030	Special 01. Fertilizer for Lawn Type Turf	CWT	2.000	2.000
0288	SPV.0060	Special 01. Adjusting Water Valve Boxes	EACH	10.000	10.000
0290	SPV.0060	Special 02. Adjusting Sanitary Manhole Covers	EACH	15.000	15.000
0292	SPV.0060	Special 03. Inlet Covers Type HD	EACH	1.000	1.000
0294	SPV.0060	Special 04. Reestablish Section Corner Monuments	EACH	18.000	18.000
0296	SPV.0060	Special 05. Research and Locate Existing Land Parcel Monuments	EACH	115.000	115.000
0298	SPV.0060	Special 06. Verify and Replace Existing Land Parcel Monuments	EACH	115.000	115.000
0300	SPV.0060	Special 07. Install Accessible Pedestrian Signal Push Button	EACH	4.000	4.000
0302	SPV.0060	Special 08. HMA Percent Within Limits (PWL) Test Strip	EACH	2.000	2.000

6380-04-77

Line	Item	Item Description	Unit	Total	Qty
		Volumetrics			
0304	SPV.0060	Special 09. HMA Percent Within Limits (PWL) Test Strip Density	EACH	3.000	3.000
0306	SPV.0090	Special 01. Install Accessible Pedestrian Signal Wire	LF	585.000	585.000
0308	SPV.0090	Special 02. Concrete Curb & Gutter HES 30-Inch Type A	LF	99.000	99.000
0310	SPV.0180	Special 01. Preparing Topsoil for Lawn Type Turf	SY	2,900.000	2,900.000

CLEARING AND GRUBBING ITEMS

STATION		OFFSET	201.0120 CLEARING ID	201.0220 GRUBBING ID	COMMENTS
CAT 0010					
48+25		RT	10	10	CULVERT REPLACEMENT
TOTALS			10	10	

REMOVING SMALL PIPE CULVERTS

STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERTS EACH	COMMENTS
CAT 0010			
47+75	LT&RT	1	36" x 100' RCCP
349+05	LT	1	36" x 8' CMCP
TOTALS		2	

REMOVING OLD STRUCTURE

STATION	OFFSET	203.0200.01 REMOVING OLD STRUCTURE (STA 348+58) LS	COMMENTS
CAT 0010			
348+58	LT&RT	1	C-37-9018
TOTAL		1	

REMOVAL ITEMS

STATION	TO	STATION	OFFSET	204.0100* REMOVING PAVEMENT SY	204.0105 REMOVING PAVEMENT BUTT JOINTS SY	204.0109.S REMOVING CONCRETE SURFACE PARTIAL DEPTH SF	204.0110* REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0125 REMOVING ASPHALTIC SURFACE MILLING TON	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY
CAT 0010											
30+95	-	58+12	LT&RT	680	–	–	24	9	1,480	507	118
58+12	-	59+82	LT&RT	209	10	17,805	30	9	70	218	175
59+82	-	79+00	LT&RT	42	–	–	16	–	1,040	293	306
79+00	-	86+00	LT&RT	--	–	–	27	–	600	113	86
86+00	-	115+50	LT&RT	44	–	–	74	–	1,990	29	–
115+50	-	269+50	LT&RT	--	–	–	–	20	10,300	--	–
269+50	-	427+50	LT&RT	--	–	–	315	–	10,320	--	–
427+50	-	560+55	LT&RT	--	–	–	–	7	8,700	--	–
TOTALS				975	10	17,805	486	45	34,500	1,160	685

THE STATION RANGE FROM 58+12 TO 59+82 INCLUDES THE STH 153 INTERSECTION
*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVING AND SALVAGING GUARDRAIL ITEMS

STATION	TO	STATION	OFFSET	204.0165 REMOVING GUARDRAIL LF	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH	COMMENTS
CAT 0010							
49+21	-	49+51	LT	30	–	–	CONNOR MILL CREEK
49+70	-	50+09	LT	39	–	–	CONNOR MILL CREEK
131+85	-	132+80	LT & RT	--	145	2	BIG EAU PLEINE RIVER
136+11	-	137+05	LT & RT	--	145	2	BIG EAU PLEINE RIVER
348+02	-	349+60	LT & RT	--	235	4	CATTLE PASS
TOTALS				69	525	8	

REMOVING DRAINAGE ITEMS

STATION	OFFSET	204.0210 REMOVING MANHOLES EACH	204.0245.01 REMOVING STORM SEWER (24-INCH) LF	204.0280 SEALING PIPES EACH	COMMENTS
CAT 0010					
32+87	LT	1	42	1	SOUTH ST
TOTALS		1	42	1	

EARTHWORK SUMMARY

DIVISION	STATION	TO	STATION	LOCATION	205.0100 EXCAVATION COMMON (CY)	AVAILABLE MATERIAL	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.25	MASS ORDINATE +/-	208.0100 BORROW (CY)	COMMENTS
1											
	80+30	-	84+92	LT	25	25	13	16	9	–	SIDEWALK
	85+73	-	95+16	LT	65	65	94	117	-52	–	SIDEWALK
	347+40	-	349+60	LT&RT	161	161	105	132	29	–	C-37-9018 REMOVAL
TOTAL					251	251	212	265	-14	14	

NOTES
1) COMMON EXCAVATION INCLUDES CUT; THIS QTY MAY INCLUDE MINOR AREAS OF SALVAGED/UNUSABLE PAVEMENT
2) EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR
3) MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL; PLUS QTY INDICATED AN EXCESS WITHIN DIVISION
4) THE GRADING AT CONNOR MILL CREEK AND BIG EAU PLEINE RIVER IS PART OF THE GRADING SHAPING FINISHING GUARDRAIL ITEMS; ESTIMATEDEARTHWORK SHOWN ELSEWHERE

BASE AGGREGATE ITEMS

	STATION	TO	STATION	OFFSET	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0500 SHAPING SHOULDERS STA
CAT 0010							
	30+95	-	58+12	LT&RT	60	671	11
	58+12	-	59+82	LT&RT	12	307	--
	59+82	-	79+00	LT&RT	16	26	--
	79+00	-	86+00	LT&RT	6	–	--
	86+00	-	115+50	LT&RT	28	52	4
	115+50	-	269+50	LT&RT	2,480	–	292
	269+50	-	427+50	LT&RT	2,675	49	307
	427+50	-	560+55	LT&RT	2,233	–	267
TOTALS					7,510	1,105	881

DRIVEWAYS

	STATION	OFFSET	416.0160 CONCRETE DRIVEWAY 6-INCH SY	416.0260 CONCRETE DRIVEWAY HES 6-INCH SY	416.0610* DRILLED TIE BARS EACH	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
CAT 0010						
	47+78	LT	43	--	–	--
	47+78	RT	--	36	–	4
	48+40	RT	23	--	–	--
	48+83	LT	--	41	–	--
	57+10	RT	13	--	12	--
	60+98	LT	9	--	7	--
	61+55	LT	9	--	7	--
	74+90	LT	3	--	–	--
	87+19	LT	--	30	13	--
	89+69	LT	--	36	14	6
	90+56	LT	--	33	14	--
	93+55	LT	20	--	8	--
	10+52	LT	--	--	–	2
	10+67	RT	--	14	–	--
TOTALS			120	190	75	12

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

BASE PATCHING ASPHALTIC

	STATION	TO	STATION	OFFSET	390.0201 BASE PATCHING ASPHALTIC TON
CAT 0010					
	58+12	-	59+82	LT&RT	20
TOTAL					20

CULVERT PIPE ITEMS

	STATION	OFFSET	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	633.5200 MARKERS CULVERT END EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	COMMENTS
CAT 0010												
	32+99	LT&RT	1271.98	1270.71	1.09%	116	–	2	–	2	1	SKEW 46°, LHF
	47+75	LT&RT	1248.66	1247.04	1.45%	–	112	--	2	2	1	SKEW 44°, RHF
TOTALS						116	112	2	2	4	2	

TIE ENDWALL AND LAST TWO SECTIONS OF PIPE PER SDD

ASPHALTIC ITEMS

	STATION	TO	STATION	OFFSET	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	455.0605 TACK COAT GAL	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	#	##	460.5225 HMA PAVEMENT 5 LT 58-28 S TON	#	##	465.0110* ASPHALTIC SURFACE PATCHING TON	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF	SPV.0060.08 HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	SPV.0060.09 HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH
CAT 0010																	
	30+95	-	58+12	LT&RT	11	1,610	2,717	–	--	–	1,636	883	1,636	191	--	–	--
	58+12	-	59+82	LT&RT	–	331	170	–	--	–	336	165	336	88	--	–	--
	59+82	-	79+00	LT&RT	–	1,135	1,918	–	--	–	1,153	623	1,153	8	--	–	--
	79+00	-	86+00	LT&RT	–	376	700	345	205	345	259	154	259	7	--	–	--
	86+00	-	115+50	LT&RT	4	1,239	2,950	1,136	865	1,136	852	649	852	–	--	–	--
	115+50	-	269+50	LT&RT	10	6,539	14,995	5,985	4,517	5,985	4,489	3,388	4,489	–	13,150	–	--
	269+50	-	427+50	LT&RT	–	6,564	15,800	6,009	4,635	6,009	4,512	3,476	4,512	16	14,600	–	--
	427+50	-	560+55	LT&RT	–	5,520	13,305	5,060	3,903	5,060	3,795	2,927	3,795	–	12,305	–	--
	PROJECT			LT&RT	–	–	–	–	--	–	–	--	–	–	--	2	3
TOTALS					25	23,314	52,555	18,535	14,125	18,535	17,030	12,265	17,030	310	40,055	2	3

REHEAT SURFACE LAYER CENTERLINE JOINT ONLY
CENTERLINE RUMBLE STRIPS BEGIN AT STATION 115+50
TONNAGE IS ELIGIBLE FOR INCENTIVE DENSITY PWL 460.2005 AND INCENTIVE AIR VOIDS 460.2010. TOTAL IS 26,390 TONS
TONNAGE IS ELIGIBLE FOR INCENTIVE AIR VOIDS 460.2010 AND DENSITY IS TESTED FOR ACCEPTANCE IN THOSE AREAS. TOTAL IS 35,565 TONS
*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE CURB & GUTTER ITEMS

STATION	TO	STATION	OFFSET	416.0610* DRILLED TIE BARS EACH	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	SPV.0090.02 CONCRETE CURB & GUTTER HES 30-INCH TYPE A LF
CAT 0010									
30+95	-	58+12	LT&RT	173	357	117	–	553	84
58+12	-	59+82	LT&RT	128	169	73	11	122	15
59+82	-	79+00	LT&RT	263	380	5	22	--	--
79+00	-	86+00	LT&RT	36	--	188	–	--	--
86+00	-	115+50	LT&RT	6	--	19	–	--	--
TOTALS				605	906	402	33	675	99

CURB AND GUTTER STAKING PAID FOR RUNS 50-FEET OR MORE IN LENGTH
*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STORM SEWER ITEMS

STATION	OFFSET	SPV.0060.03 INLET COVERS TYPE HD EACH
CAT 0010		
51+26	LT	1
TOTAL		1

3

ADJUSTING WATER VALVE BOXES & MANHOLE COVERS

STATION	TO	STATION	OFFSET	204.0100* REMOVING PAVEMENT SY	204.0110* REMOVING ASPHALTIC SURFACE SY	465.0110* ASPHALTIC SURFACE PATCHING TON	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	690.0150* SAWING ASPHALT LF	690.0250* SAWING CONCRETE LF	SPV.0060.01 ADJUSTING WATER VALVE BOXES EACH	SPV.0060.02 ADJUSTING SANITARY MANHOLE COVERS EACH
CAT 0010												
30+95	-	58+12	LT&RT	16	16	15	4	4	–	96	--	–
58+12	-	59+82	LT&RT	8	8	9	2	2	–	48	--	–
79+00	-	86+00	LT&RT	12	12	6	3	3	72	–	--	–
86+00	-	115+50	LT&RT	28	28	13	7	7	171	–	--	–
CAT 0010 SUBTOTALS				64	64	43	16	16	243	144	--	–
CAT 0040												
30+95	-	58+12	LT&RT	21	21	24	–	5	–	132	1	5
58+12	-	59+82	LT&RT	16	16	17	–	3	–	120	4	3
59+82	-	79+00	LT&RT	32	32	34	–	7	–	217	4	7
79+00	-	86+00	LT&RT	–	1	0	–	--	12	–	1	–
CAT 0040 SUBTOTALS				69	70	75	–	15	12	469	10	15
TOTALS				133	134	118	16	31	255	613	10	15

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE SIDEWALK ITEMS

STATION	TO	STATION	OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0615 CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF	COMMENTS
CAT 0010							
36+69	-	37+71	RT	347	30	18	E HEMLOCK ST
47+50	-	48+61	RT	274	--	–	CULVERT REPLACEMENT
51+06	-	52+19	RT	335	20	–	S 3RD AVE
55+43	-	55+55	LT	80	10	–	W MEADOW ST
57+27	-	57+35	RT	32	--	–	NORTH OF PUBLIC ALLEY
58+28	-	59+62	LT&RT	1,663	80	–	STH 153 / FIR ST
62+49	-	63+45	LT&RT	658	30	18	WALNUT ST
66+27	-	67+18	LT&RT	652	40	–	ELM ST
70+07	-	71+03	LT&RT	611	50	–	LARCH ST
73+92	-	75+21	LT&RT	581	60	–	E MAIN ST
78+06	-	78+92	LT&RT	473	30	–	E MYRTLE ST
81+86	-	82+72	RT	427	10	17	E OAK ST
84+82	-	85+36	RT	472	20	–	E NORTH ST
						–	
CAT 0010 SUBTOTALS				6,605	380	53	
CAT 0030							
80+29	-	85+10	LT	2,421	10	17	SOUTH OF NORTH ST
85+57	-	95+16	LT&RT	4,459	40	16	NORTH OF NORTH ST
CAT 0030 SUBTOTALS				6,880	50	33	
TOTALS				13,485	430	86	

3

RIPRAP ITEMS

	STATION	OFFSET	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
CAT 0010				
	32+42	RT	17	45
	33+35	LT	5	17
	48+23	RT	23	58
TOTALS			45	120

BARRIER SYSTEM GRADING SHAPING FINISHING

	STATION	TO	STATION	OFFSET	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH	** EXCAVATION COMMON CY	** FILL CY	** BORROW CY	** TOPSOIL SY	** FERTILIZER TYPE B CWT	** SEEDING MIXTURE NO. 30 LB
CAT 0010											
	49+02	-	51+36	LT	1	29	2	–	--	–	–
	130+41	-	139+11	LT&RT	4	103	255	152	1,440	1.0	10
TOTALS					5	132	257	152	1,440	1.0	10

**NON-BID ITEM, ITEMS AND QUANTITIES LISTED FOR BID INFORMATION ONLY. ITEMS INCIDENTAL TO BARRIER SYSTEM GRADING SHAPING FINISHING. LAWN TYPE TURF, FERTILIZER FOR LAWN TYPE TURF, AND NO. 40 SEED PAID FOR UNDER ITEMS PROVIDED IN CONTRACT AT THE FOLLOWING LOCATIONS: STATION 49+02 - STATION 51+36, LT (URBAN AREA)

GUARDRAIL ITEMS

	STATION	TO	STATION	OFFSET	614.0340 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A LF	614.0345 STEEL PLATE BEAM GUARD SHORT RADIUS LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	614.0390 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL EACH	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
CAT 0010											
	49+01	-	50+60	LT	100	25	1	1	–	–	--
	130+89	-	132+80	RT	–	–	–	–	100.0	39.4	1
	131+17	-	132+59	LT	–	–	–	–	50.0	39.4	1
	136+11	-	138+04	LT	–	–	–	–	100.0	39.4	1
	136+32	-	137+87	RT	–	–	–	–	62.5	39.4	1
	348+02	-	349+16	LT	–	–	–	–	–	–	--
	348+06	-	349+20	RT	–	–	–	–	–	–	--
TOTALS					100	25	1	1	312.5	157.6	4

REFERENCE MONUMENT ITEMS

	LOCATION	621.0100 LANDMARK REFERENCE MONUMENTS EACH	SPV.0060.04 REESTABLISH SECTION CORNER MONUMENTS EACH
CAT 0010			
	PROJECT	72	18
TOTALS		72	18

WATER

CATEGORY	LOCATION	624.0100 MGAL
0010	PROJECT	170
TOTAL		170

EROSION CONTROL MOBILIZATION

	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CAT 0010			
	PROJECT	3	3
TOTALS	–	3	3

EROSION CONTROL ITEMS

	STATION	TO	STATION	OFFSET	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2027 EROSION MAT CLASS II TYPE C SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	COMMENTS
CAT 0010													
	32+00	-	34+00	LT&RT	–	--	--	–	350	13	5	–	
	36+73	-	37+66	RT	–	--	--	20	–	–	–	–	E HEMLOCK ST
	47+00	-	51+00	LT&RT	191	191	--	30	160	25	6	16	
	51+22	-	52+04	RT	–	--	--	30	–	–	–	–	S 3RD AVE
	55+43	-	55+55	LT	–	--	--	10	–	–	–	–	W MEADOW ST
	57+27	-	57+35	RT	–	--	--	10	–	–	–	–	NORTH OF PUBLIC ALLEY
	58+28	-	59+62	LT&RT	–	--	--	90	–	–	–	–	STH 153 / FIR ST
	62+44	-	63+40	LT&RT	–	--	--	60	–	–	–	–	WALNUT ST
	66+34	-	67+18	LT&RT	–	--	--	70	–	–	–	–	ELM ST
	70+12	-	70+98	LT&RT	–	--	--	40	–	–	–	–	LARCH ST
	73+96	-	75+16	LT&RT	–	--	--	60	–	–	–	–	E MAIN ST
	78+12	-	78+92	LT&RT	–	--	--	50	–	–	–	–	E MYRTLE ST
	80+29	-	85+10	LT	–	--	--	480	–	–	–	–	E OAK ST
	81+86	-	82+62	RT	–	--	--	50	–	–	–	–	E NORTH ST
	84+82	-	85+36	RT	–	--	--	90	–	–	–	–	SOUTH OF NORTH ST
	85+57	-	95+16	LT&RT	200	200	--	960	–	–	–	–	NORTH OF NORTH ST
	130+00	-	134+50	LT&RT	644	644	520	–	–	–	–	40	
	134+50	-	139+50	LT&RT	650	650	920	–	–	–	–	32	
	344+50	-	351+50	LT&RT	–	--	1,370	–	–	125	–	–	
	UNDISTRIBUTED			–	590	590	990	450	140	37	4	22	
TOTALS					2,275	2,275	3,800	2,500	650	200	15	110	

ROCK BAGS ARE FOR SILT FENCE RELIEF

RESTORATION ITEMS

	STATION	TO	STATION	OFFSET	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	631.0300 SOD WATER MGAL	SPV.0030.01 FERTLIZER FOR LAWN TYPE TURF CWT	SPV.0180.01 PREPARING TOPSOIL FOR LAWN TYPE TURF SY	COMMENTS
CAT 0010												
	30+95	-	95+16	LT&RT	2,380	0.2	–	45	30	1.5	2,380	CURB RAMPS & CULVERTS
	344+50	-	351+50	LT&RT	2,470	1.6	50	--	–	–	--	C-37-9018 REMOVAL
	UNDISTRIBUTED			LT&RT	1,150	0.7	10	15	10	0.5	520	
TOTALS					6,000	2.5	60	60	40	2.0	2,900	

INLET PROTECTION ITEMS

	STATION	TO	STATION	OFFSET	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
CAT 0010						
	30+95	-	58+12	LT&RT	21	4
	58+12	-	59+82	LT&RT	4	--
	59+82	-	79+00	LT&RT	13	2
	79+00	-	86+00	LT&RT	7	2
	86+00	-	115+50	LT&RT	15	2
	UDISTRIBUTED			LT&RT	10	2
TOTALS					70	12

TYPE II SIGNS AND SUPPORTS

	SIGN NUMBER	SIGN CODE	SIGN DIMENSION W X H IN	X	IN	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 0010	1-1	R1-1	30	X	30	1	--	--	5.18	–	--	--	1	1	
	1-2	–	–	X	–	--	--	--	–	–	--	--	1	1	
	1-3	R7-1L	18	X	24	1	--	--	3.00	–	--	--	–	–	
	1-4	W14-3	48	X	36	--	1	--	–	–	6.00	--	1	1	
	1-5	–	–	X	–	--	--	--	–	–	--	--	1	–	REMOVE FROM UTILITY POLE, 40 MPH
	1-6	D11-1	24	X	18	1	--	--	3.00	–	--	--	–	–	
	1-7	M7-1	12	X	9	--	--	--	0.75	–	--	--	–	–	SAME POST AS POST 1-6
	1-8	D9-2	24	X	24	1	--	--	4.00	–	--	--	1	1	
	1-9	MB6-1	21	X	21	--	--	--	3.06	–	--	--	–	–	SAME POST AT 1-8
	1-10	R7-1R	18	X	24	1	--	--	3.00	–	--	--	–	–	
	1-11	–	–	X	–	--	--	--	–	–	--	--	1	1	
	1-12	R1-1	30	X	30	1	--	--	5.18	–	--	--	1	1	
	1-13	–	–	X	–	--	--	--	–	–	--	--	1	1	
	1-14	R7-1L	18	X	24	1	--	--	3.00	–	--	--	–	–	
	1-15	D11-1	24	X	18	1	--	--	3.00	–	--	--	1	1	
	1-16	M7-1	12	X	9	--	--	--	0.75	–	--	--	–	–	SAME POST AS POST 1-15
	2-1	–	–	X	–	--	--	--	–	–	--	--	1	1	
	2-2	R7-1R	18	X	24	1	--	--	3.00	–	--	--	–	–	
	2-3	–	–	X	–	--	--	--	–	–	--	--	1	1	
	2-4	–	–	X	–	--	--	--	–	–	--	--	1	1	
	2-5	R7-1D	18	X	24	1	--	--	3.00	–	--	--	–	–	
	2-6	R7-1D	18	X	24	1	--	--	3.00	–	--	--	–	–	
	2-7	–	–	X	–	--	--	--	–	–	--	--	1	1	
	2-8	R2-1	24	X	30	1	--	--	5.00	–	--	--	1	1	40 MPH
	2-9	R2-1	24	X	30	1	--	--	5.00	–	--	--	1	1	40 MPH
	2-10	W11-8	30	X	30	1	--	--	–	–	6.25	--	1	–	REMOVE FROM UTILITY POLE
	2-11	R7-1R	18	X	24	1	--	--	3.00	–	--	--	–	–	
	2-12	–	–	X	–	--	--	--	–	–	--	--	1	1	
	3-1	–	–	X	–	--	--	--	–	–	--	--	1	1	
	3-2	R7-1D	18	X	24	1	--	--	3.00	–	--	--	–	–	
	3-3	R7-1D	18	X	24	1	--	--	3.00	–	--	--	–	–	
	3-4	–	–	X	–	--	--	--	–	–	--	--	1	1	
	3-5	R7-1D	18	X	24	1	--	--	3.00	–	--	--	–	–	
	3-6	–	–	X	–	--	--	--	–	–	--	--	1	1	
	3-7	R7-1D	18	X	24	1	--	--	3.00	–	--	--	–	–	
	3-8	J1-1	24	X	39	--	1	--	6.50	–	--	--	1	1	
	3-9	R1-1	30	X	30	1	--	--	5.18	–	--	--	1	1	
	3-10	–	–	X	–	--	--	--	–	–	--	--	1	1	
	3-11	R2-1	24	X	30	1	--	--	5.00	–	--	--	–	–	40 MPH
	3-12	R2-1	24	X	30	1	--	--	5.00	–	--	--	–	–	30 MPH
	4-1	W3-3	36	X	36	--	1	--	–	–	9.00	--	1	1	REMOVE FROM UTILITY POLE
	4-2	R7-1L	18	X	24	1	--	--	3.00	–	--	--	–	–	
	4-3	R7-1R	18	X	24	1	--	--	3.00	–	--	--	–	–	
	4-4	–	–	X	–	--	--	--	–	–	--	--	1	1	40 MPH
	4-5	R1-1	30	X	30	1	--	--	5.18	–	--	--	1	1	
	4-6	R1-1	30	X	30	1	--	--	5.18	–	--	--	1	1	
	4-7	R7-1R	18	X	24	1	--	--	3.00	–	--	--	–	–	
	4-8	–	–	X	–	--	--	--	–	–	--	--	1	1	30 MPH
	4-9	R7-1L	18	X	24	1	--	--	3.00	–	--	--	–	–	
	4-10	–	–	X	–	--	--	--	–	–	--	--	1	1	
	4-11	–	–	X	–	--	--	--	–	–	--	--	1	2	
	4-11A	J2-1	24	X	57	--	1	--	9.50	–	--	--	–	–	
	4-11B	J2-1	24	X	57	--	1	--	9.50	–	--	--	–	–	
	4-12	–	–	X	–	--	--	--	–	–	--	--	1	1	
	4-13	R7-1D	18	X	24	1	--	--	3.00	–	--	--	–	–	
	4-14	–	–	X	–	--	--	--	–	–	--	--	1	1	
	4-15	R7-1D	18	X	24	1	--	--	3.00	–	--	--	–	–	
	4-16	R1-1	30	X	30	1	--	--	5.18	–	--	--	1	1	
	4-17	D1-2	42	X	24	--	1	--	7.00	–	--	--	1	1	
	4-18	–	–	X	–	--	--	--	–	–	--	--	–	–	REMOVED WITH 4-17

TYPE II SIGNS AND SUPPORTS

SIGN NUMBER	SIGN CODE	SIGN DIMENSION W X H IN	X	IN	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
5-1	–	–	X	--	--	--	--	–	–	--	–	1	1	
5-2	R7-1D	18	X	24	1	--	--	3.00	–	--	–	–	–	
5-3	J4-1	24	X	36	1	--	--	6.00	–	--	–	1	–	REMOVE FROM UTILITY POLE
5-4	–	–	X	--	--	--	--	–	–	--	–	1	1	
5-5	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
5-6	R7-1L	18	X	24	1	--	--	3.00	–	--	–	1	1	
5-7	J3-2	48	X	57	--	--	--	19.00	–	--	–	1	–	MOUNT ON SIGNAL POLE
5-8	R1-1F	36	X	36	--	--	--	–	7.46	--	–	1	–	MOUNT ON SIGNAL POLE
5-9	R1-1F	36	X	36	--	--	--	–	7.46	--	–	1	–	MOUNT ON SIGNAL POLE
5-10	J13-1	24	X	45	--	--	--	7.50	–	--	–	1	–	MOUNT ON SIGNAL POLE
5-11	–	–	X	--	--	--	--	–	–	--	–	–	–	PART OF 5-10
5-12	J4-1	24	X	36	--	1	--	6.00	–	--	–	–	–	EXISTING ON 5-13
5-13	R2-1	24	X	30	--	1	--	5.00	–	--	–	1	1	25 MPH
5-14	R7-1R	18	X	24	1	--	--	3.00	–	--	–	1	1	
5-15	R7-1L	18	X	24	1	--	--	3.00	–	--	–	1	1	
5-16	R1-1F	36	X	36	--	--	--	–	7.46	--	–	1	–	MOUNT ON SIGNAL POLE
5-17	J3-2	48	X	57	--	--	--	19.00	–	--	–	1	–	MOUNT ON SIGNAL POLE
5-18	J4-1	24	X	36	--	1	--	6.00	–	--	–	1	1	
5-19	–	–	X	--	--	--	--	–	–	--	–	1	1	
5-20	R7-1L	18	X	24	1	--	--	3.00	–	--	–	–	–	
5-21	R7-1R	18	X	24	1	--	--	3.00	–	--	–	1	1	
5-22	J13-1	24	X	45	--	--	--	7.50	–	--	–	1	–	MOUNT ON SIGNAL POLE
5-23	–	–	X	--	--	--	--	–	–	--	–	–	–	PART OF 5-22
5-24	R1-1F	36	X	36	--	--	--	–	7.46	--	–	1	–	MOUNT ON SIGNAL POLE
5-25	R7-1R	18	X	24	1	--	--	3.00	–	--	–	1	1	
5-26	D1-2	48	X	24	1	--	--	8.00	–	--	–	1	1	
5-27	R7-1D	18	X	24	1	--	--	3.00	–	--	–	1	–	REMOVE FROM UTILITY POLE
6-1	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
6-2	–	–	X	--	--	--	--	–	–	--	–	1	1	
6-3	R7-1L	18	X	24	1	--	--	3.00	–	--	–	1	1	
6-4	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
6-5	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
6-6	–	–	X	--	--	--	--	–	–	--	–	1	1	
6-7	R7-1L	18	X	24	1	--	--	3.00	–	--	–	–	–	
6-8	J2-2	48	X	57	--	1	--	19.00	–	--	–	1	1	
6-9	–	–	X	--	--	--	--	–	–	--	–	1	1	
6-10	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
6-11	W3-3	36	X	36	--	1	--	–	–	9.00	–	1	1	
6-12	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	30 MPH
6-13	J1-1	24	X	39	--	1	--	6.50	–	--	–	1	1	
6-14	R7-1L	18	X	24	1	--	--	3.00	–	--	–	–	–	
6-15	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
6-16	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
6-17	W14-1	30	X	30	1	--	--	–	–	6.25	–	1	1	
6-18	R1-1	30	X	30	--	--	--	5.18	–	--	–	1	–	
6-19	–	–	X	--	--	--	--	–	–	--	–	1	1	
6-20	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
6-21	–	–	X	--	--	--	--	–	–	--	–	1	1	
6-22	R7-1L	18	X	24	1	--	--	3.00	–	--	–	–	–	
6-23	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	30 MPH
6-24	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	30 MPH
7-1	R7-1D	18	X	24	1	--	--	3.00	–	--	–	–	–	
7-2	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
7-3	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
7-4	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	

TYPE II SIGNS AND SUPPORTS

SIGN NUMBER	SIGN CODE	SIGN DIMENSION W X H			634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
7-5	–	–	X	--	–	--	--	–	–	--	–	1	1	
7-6	R7-1L	18	X	24	1	--	--	3.00	–	--	–	–	–	
7-7	R7-1D	18	X	24	1	--	--	3.00	–	--	–	–	–	
7-8	–	–	X	--	–	--	--	–	–	--	–	1	1	
7-9	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	30 MPH
7-10	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	30 MPH
7-11	S1-1	36	X	36	–	--	--	–	–	6.75	–	1	–	MOUNT ON FLASHER
7-12	S16-9P	30	X	18	–	--	--	–	–	3.75	–	–	–	MOUNT ON FLASHER
7-12A	R2-6P	24	X	18	–	--	--	–	–	3.00	–	–	–	MOUNT ON FLASHER
7-13	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
7-14	–	–	X	--	–	--	--	–	–	--	–	1	1	
8-1	–	–	X	--	–	--	--	–	–	--	–	1	–	REMOVE FROM LIGHT POLE
8-2	R7-1D	18	X	24	1	--	--	3.00	–	--	–	–	–	
8-3	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
8-4	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
8-5	–	–	X	--	–	--	--	–	–	--	–	1	1	
8-6	S1-1	36	X	36	–	1	--	–	–	6.75	–	1	1	
8-7	S16-7L	30	X	18	–	--	--	–	–	3.75	–	–	–	SAME POST AS 8-6
8-8	R7-1L	18	X	24	1	--	--	3.00	–	--	–	–	–	
8-9	–	–	X	--	–	--	--	–	–	--	–	1	1	
8-10	S1-1	36	X	36	–	1	--	–	–	6.75	–	1	1	
8-11	S16-7L	30	X	18	–	--	--	–	–	3.75	–	–	–	SAME POST AS 8-10
8-12	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	30 MPH
8-13	R7-1D	18	X	24	1	--	--	3.00	–	--	–	–	–	
8-14	–	–	X	--	–	--	--	–	–	--	–	1	1	
8-15	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
8-16	–	–	X	--	–	--	--	–	–	--	–	1	1	
8-17	S1-1	36	X	36	–	--	--	–	–	6.75	–	1	–	MOUNT ON FLASHER
8-18	S16-9P	30	X	18	–	--	--	–	–	3.75	–	–	–	MOUNT ON FLASHER
8-18A	R2-6P	24	X	18	–	--	--	–	–	3.00	–	–	–	MOUNT ON FLASHER
8-19	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
8-20	R7-1L	18	X	24	1	--	--	3.00	–	--	–	–	–	
9-1	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	40 MPH
9-2	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	30 MPH
9-3	R7-1D	18	X	24	1	--	--	3.00	–	--	–	–	–	
9-4	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
9-5	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
9-6	R7-1L	18	X	24	1	--	--	3.00	–	--	–	–	–	
9-7	R7-1L	18	X	24	1	--	--	3.00	–	--	–	–	–	
9-8	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
9-9	R7-1R	18	X	24	1	--	--	3.00	–	--	–	–	–	
9-10	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
10-1	J4-1	24	X	36	–	1	--	6.00	–	--	–	1	1	
10-2	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	40 MPH
11-1	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	40 MPH
11-2	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	40 MPH
11-3	R2-1	24	X	30	1	--	--	5.00	–	--	–	1	1	55 MPH
11-4	D1-1	66	X	15	2	--	--	6.88	–	--	–	1	2	
11-5	R10-64	30	X	36	–	1	--	–	–	--	1	–	–	
11-6	I2-3	66	X	24	2	--	--	11.00	–	--	–	1	2	
11-7	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
11-8	R1-1	30	X	30	1	--	--	5.18	–	--	–	1	1	
11-9	W54-57	30	X	30	–	--	1	–	–	6.25	–	1	1	
11-10	W3-5	36	X	36	–	1	--	–	–	9.00	–	1	1	40 MPH
11-11	W2–2	30	X	30	–	--	1	–	–	6.25	–	1	1	

TYPE II SIGNS AND SUPPORTS

SIGN NUMBER	SIGN CODE	SIGN DIMENSION W X H IN		IN	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
12-1	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
12-2	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
12-3	I3-1	78	X	24	–	2	–	13.00	--	13.00	–	1	1	
12-4	–	–	X	--	–	–	–	–	--	–	–	1	1	
12-5	–	–	X	--	–	–	–	–	--	–	–	1	1	
12-6	–	–	X	--	–	–	–	–	--	–	–	1	1	
12-7	–	–	X	--	–	–	–	–	--	–	–	1	1	
12-8	I3-1	78	X	24	–	2	–	13.00	--	13.00	–	1	1	
12-9	W54-57	30	X	30	–	1	–	–	--	6.25	–	1	1	
12-10	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
13-1	W2-1	30	X	30	–	1	–	–	--	6.25	–	1	1	
13-2	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
13-3	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
13-4	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
13-5	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
13-6	–	–	X	--	–	–	–	–	--	–	–	1	2	
14-1	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
14-2	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
14-3	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
14-4	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
14-5	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
14-6	–	–	X	--	–	–	–	–	--	–	–	1	2	
15-1	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
15-2	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
15-3	D7-53R	60	X	36	–	1	1	15.00	--	–	–	1	2	
15-4	W2-1	30	X	30	–	1	–	–	--	6.25	–	1	1	
15-5	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
15-6	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
16-1	J1-1	24	X	39	–	1	–	6.50	--	–	–	1	1	
16-2	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
16-3	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
16-4	–	–	X	--	–	–	–	–	--	–	–	1	2	
16-5	D1-2	66	X	30	–	1	1	13.75	--	–	–	1	2	
16-6	J4-1	24	X	36	–	1	–	6.00	--	–	–	1	1	
16-7	J13-1	24	X	45	–	–	1	7.50	--	–	–	1	1	
16-8	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
16-9	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
16-10	J13-1	24	X	45	–	–	1	7.50	--	–	–	1	1	
16-11	J13-1	24	X	45	–	–	1	7.50	--	–	–	1	1	
16-12	J13-1	24	X	45	–	–	1	7.50	--	–	–	1	1	
17-1	J4-1	24	X	36	–	1	–	6.00	--	6.00	–	1	1	
17-2	D1-2	66	X	30	–	1	1	13.75	--	–	–	1	1	
17-3	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
17-4	J1-1	24	X	39	–	1	–	6.50	--	–	–	1	1	
17-5	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
18-1	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
18-2	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
18-3	W2-1	30	X	30	–	1	–	–	--	6.25	–	1	1	
18-4	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
18-5	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
19-1	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
19-2	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
20-1	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
20-2	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
20-3	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	

TYPE II SIGNS AND SUPPORTS

SIGN NUMBER	SIGN CODE	SIGN DIMENSION W X H			634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
20-4	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
20-5	W2-1	30	X	30	–	1	–	–	--	6.25	–	1	1	
20-6	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
21-1	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
21-2	J1-1	24	X	39	–	1	–	6.50	--	–	–	1	1	
22-1	D1-2	60	X	30	–	2	–	12.50	--	12.50	–	1	2	
22-2	J4-1	24	X	36	–	1	–	6.00	--	–	–	1	1	
22-3	J13-1	24	X	45	–	–	1	7.50	--	–	–	1	1	
22-4	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
22-5	J13-1	24	X	45	–	–	1	7.50	--	–	–	1	1	
22-6	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
22-7	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
22-8	J13-1	24	X	45	–	–	1	7.50	--	–	–	1	1	
22-9	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
22-10	J13-1	24	X	45	–	–	1	7.50	--	–	–	1	1	
22-11	J4-1	24	X	36	–	1	–	6.00	--	–	–	1	1	
22-12	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
22-13	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
22-14	D1-2	60	X	30	–	2	–	12.50	--	–	–	1	2	
22-15	J1-1	24	X	39	–	1	–	6.50	--	–	–	1	1	
23-1	S3-1	36	X	36	–	1	–	–	--	9.00	–	1	1	
23-2	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
23-3	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
23-4	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
23-5	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
24-1	W11-6	30	X	30	–	1	–	–	--	6.25	–	1	1	
24-2	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
24-3	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
24-4	R1-1	30	X	30	–	1	–	5.18	--	–	–	1	1	
24-5	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
25-1	W14-3	48	X	36	–	1	–	–	--	6.00	–	1	1	
TOTALS					95	92	13	818.14	29.84	371.00	1	195	189	

TRAFFIC CONTROL ITEMS

LOCATION	STAGE DURATION	643.0310.S TEMPORARY PORTABLE RUMBLE STRIPS	643.0300* TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.1070 TRAFFIC CONTROL CONES 42-INCH		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0900* TRAFFIC CONTROL SIGNS		643.1050 TRAFFIC CONTROL SIGNS PCMS		643.5000 TRAFFIC CONTROL (6380-04-77)	661.0100.01 TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (B-37-0248)
	DAYS	LS	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	EACH	LS
CAT 0010																		
PRIOR TO CONSTRUCTION	7	–	–	--	--	–	–	–	–	--	--	–	--	–	4	28	–	--
CULVERTS & C-37-9018 REMOVAL	15	–	50	750	--	–	20	300	–	--	--	–	30	450	2	30	–	--
B-37-0248 POLYMER OVERLAY	7	–	30	210	1	7	–	–	2	14	10	70	20	140	–	–	–	1
PROJECT	100	1	–	--	--	–	–	–	–	--	--	–	100	10,000	–	–	1	--
TOTALS		1		960		7		300		14		70		10,590		58	1	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY PEDESTRIAN ACCOMMODATIONS

LOCATION	643.0300* TRAFFIC CONTROL DRUMS		643.0410 TRAFFIC CONTROL BARRICADES TYPE II		643.0900* TRAFFIC CONTROL SIGNS		644.1420.S TEMPORARY PEDESTRIAN SURFACE PLYWOOD	644.1601.S TEMPORARY CURB RAMP	644.1616.S TEMPORARY PEDESTRIAN SAFETY FENCE
	NO.	DAY	NO.	DAY	NO.	DAY	SF	EACH	LF
CAT 0010									
SOUTH ST - STH 153	120	600	42	210	14	70	850	8	750
STH 153	40	200	40	200	40	200	50	2	–
STH 153 - NORTH ST	200	1,000	200	1,000	200	1,000	150	6	100
TOTALS		1,800		1,410		1,270	1,050	16	850

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PAVEMENT MARKING ITEMS

					646.1020					646.3020	646.4520		646.1040	646.8120	646.6120	646.7420	646.7520	649.0105
					MARKING LINE EPOXY 4-INCH					MARKING LINE EPOXY 8-INCH	MARKING LINE SAME DAY EPOXY 4-INCH		MARKING LINE GROOVED WET REF EPOXY 4-INCH	MARKING CURB EPOXY	MARKING STOP LINE EPOXY 18-INCH	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH	TEMPORARY MARKING LINE PAINT 4-INCH
	STATION	TO	STATION	OFFSET	3' LINE 9' SKIP WHITE	12.5' LINE 37.5' SKIP WHITE	SOLID WHITE	12.5' LINE 37.5' SKIP YELLOW	SOLID YELLOW	SOLID WHITE	12.5' LINE 37.5' SKIP YELLOW	SOLID YELLOW	WHITE	YELLOW	WHITE	WHITE	WHITE	YELLOW
					LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
CAT 0010																		
	30+95	-	58+12	LT&RT	30	--	5,052	--	–	140	679	720	–	--	56	328	–	1,399
	58+12	-	59+82	LT&RT	--	--	99	--	–	–	51	467	–	570	80	358	–	518
	59+82	-	79+00	LT&RT	--	--	3,202	--	–	–	475	1,168	–	--	149	920	185	1,643
	79+00	-	86+00	LT&RT	--	--	1,179	--	–	–	--	1,400	–	--	55	424	–	1,400
	86+00	-	115+50	LT&RT	--	--	3,227	--	–	–	--	5,900	2,575	--	–	–	–	5,900
	115+50	-	269+50	LT&RT	--	131	--	3,375	10,450	100	3,375	10,450	30,050	--	–	–	–	13,825
	269+50	-	427+50	LT&RT	--	--	--	3,950	11,000	100	3,950	11,000	30,850	--	–	–	–	14,950
	427+50	-	560+55	LT&RT	--	--	--	2,500	13,705	–	2,500	13,705	25,860	--	–	–	–	16,205
TOTALS					30	131	12,759	9,825	35,155	340	11,030	44,810	89,335	570	340	2,030	185	55,840
							57,900				55,840							

EDGELINE MARKING TYPE CHANGES AT STATION 102+00
CENTERLINE RUMBLE STRIPS BEGIN AT STATION 115+50
IN AREAS OF CENTERLINE RUMBLE STRIPS, ONE APPLICATION OF EPOXY AND ONE APPLICATION OF EPOXY SAME DAY IS INCLUDED FOR THE CENTERLINE
ONE APPLICATION OF TEMPORARY MARKING ON THE CENTERLINE IS INCLUDED FOR USE DURING MILLING AND OVERLAY OPERATIONS

LOCATING NO-PASSING ZONES

		648.0100
		LOCATING NO-PASSING ZONES
	STATION	MI
CAT 0010		
	PROJECT	10.03
TOTAL		10.03

TEMPORARY PAVEMENT MARKING TAPE ITEMS

				649.0150		649.0850	
				TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH		TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH	
				YELLOW	WHITE	WHITE	
	STATION	TO	STATION	LF	LF	LF	COMMENTS
CAT 0010							
	123+50	-	145+50	2,800	1,200	24	B-37-0248 POLYMER OVERLAY
TOTALS				2,800	1,200	24	
				4,000			

3

CONSTRUCTION STAKING

					650.8000	650.8500	650.9910
					CONSTRUCTION STAKING RESURFACING REFERENCE	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (6380-04-77)	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (6380-04-77)
	STATION	TO	STATION	OFFSET	LF	LS	LS
CAT 0010							
	30+95	-	560+55	LT&RT	52,960	1	1
TOTALS					52,960	1	1

TRAFFIC SIGNAL PULL BOXES

LOCATION	PULL BOX NUMBER	STATION	OFFSET	L/R	653.0140 PULL BOXES STEEL 24X42-INCH EACH
CAT 0010					
STH 97 & STH 153					
	PB2	56+17	24.5'	RT	1
	PB4	58+69	196.8'	LT	1
	PB6	61+74	26.5'	LT	1
	PB8	59+09	194.2'	RT	1
	PB9	58+70	78.5'	LT	1
	PB10	59+25	74.5'	RT	1
TOTAL					6

TRAFFIC SIGNAL CONDUIT

LOCATION	FROM	-	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF
CAT 0010				
STH 97 & STH 153				
	PB2	-	PB1	120
	PB4	-	PB9	30
	PB6	-	PB5	110
	PB8	-	PB10	20
	PB9	-	PB3	15
	PB9	-	PB4	10
	PB10	-	PB7	15
	PB10	-	PB8	15
	PB10	-	SB11	20
TOTAL				355

TRAFFIC SIGNAL REMOVALS

LOCATION	PULL BOX NUMBER	204.9060.S.01 REMOVING PEDESTRIAN PUSH BUTTONS EACH	653.0905 REMOVING PULL BOXES EACH
CAT 0010			
STH 97 & STH 153			
	PB2	--	1
	PB4	--	1
	PB6	--	1
	PB8	--	1
	SB1	1	--
	SB2	1	--
	SB7	1	--
	SB8	1	--
TOTALS		4	4

3

TRAFFIC SIGNAL LOOP DETECTORS

LOCATION	LOOP NO.	STATION**	OFFSET	L/R	SIZE FT X FT	NO. OF TURNS	INSTALLATION METHOD	652.0800 CONDUIT LOOP DETECTOR LF	655.0800 LOOP DETECTOR WIRE LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF
CATEGORY 0010										
STH 97 & STH 153										
	21	61+74	6.0'	LT	6 X 6	5	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	60	300	325
	41	58+89	196.6'	LT	6 X 6	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	58	174	165
	42	58+90	76.5'	LT	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	264	45
	43	58+90	48.5'	LT	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	276	45
	61	56+17	6.0'	RT	6 X 6	5	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	56	280	345
	81	59+09	194.1'	RT	6 X 6	5	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	54	270	330
	82	59+00	76.5'	RT	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	258	205
	83	59+00	48.5'	RT	6 X 20	3	SDD: LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	270	205
TOTALS								584	2,092	1,665

** LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP & FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

TRAFFIC SIGNAL STRUCTURES

LOCATION	BASE NUMBER	STATION	OFFSET	L/R	654.0101 CONCRETE BASES TYPE 1 EACH	657.0100 PEDESTAL BASES EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT EACH
CAT 0010							
STH 97 & STH 153							
	SB11	59+24	55.5'	RT	1	1	1
TOTALS					1	1	1

PEDESTRIAN PUSH BUTTONS

LOCATION	BASE NUMBER	SPV.0060.07 INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON EACH	SPV.0090.01 INSTALL ACCESSIBLE PEDESTRIAN SIGNAL WIRE LF
CAT 0010			
STH 97 & STH 153			
	SB1	1	153
	SB2	1	67
	SB8	1	141
	SB11	1	224
TOTALS		4	585

SAWING

	STATION	TO	STATION	OFFSET	690.0150* SAWING ASPHALT LF	690.0250* SAWING CONCRETE LF
CAT 0010						
	30+95	-	58+12	LT&RT	64	808
	58+12	-	59+82	LT&RT	108	651
	59+82	-	79+00	LT&RT	81	631
	79+00	-	86+00	LT&RT	230	57
	86+00	-	115+50	LT&RT	76	4
	346+00	-	351+00	LT&RT	453	–
TOTALS					1,012	2,151

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PROPERTY MONUMENT ITEMS

LOCATION	SPV.00060.05 RESEARCH AND LOCATE EXISTING LAND PARCEL MONUMENTS EACH	SPV.00060.06 VERIFY AND REPLACE EXISTING LAND PARCEL MONUMENTS EACH
CAT 0010		
PROJECT	115	115
TOTALS	115	115

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET

6380-04-27

STRATFORD - GOODRICH
SOUTH STREET - STH 29
STH 97
MARATHON COUNTY



CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT

SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS — CAUTION
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES — CAUTION
R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN — IP
VALVE (GAS, WATER, ETC.) — (TYPE)
SIGN — SIGN
OFF-PREMISE SIGN — I-25 — SIGN

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

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)

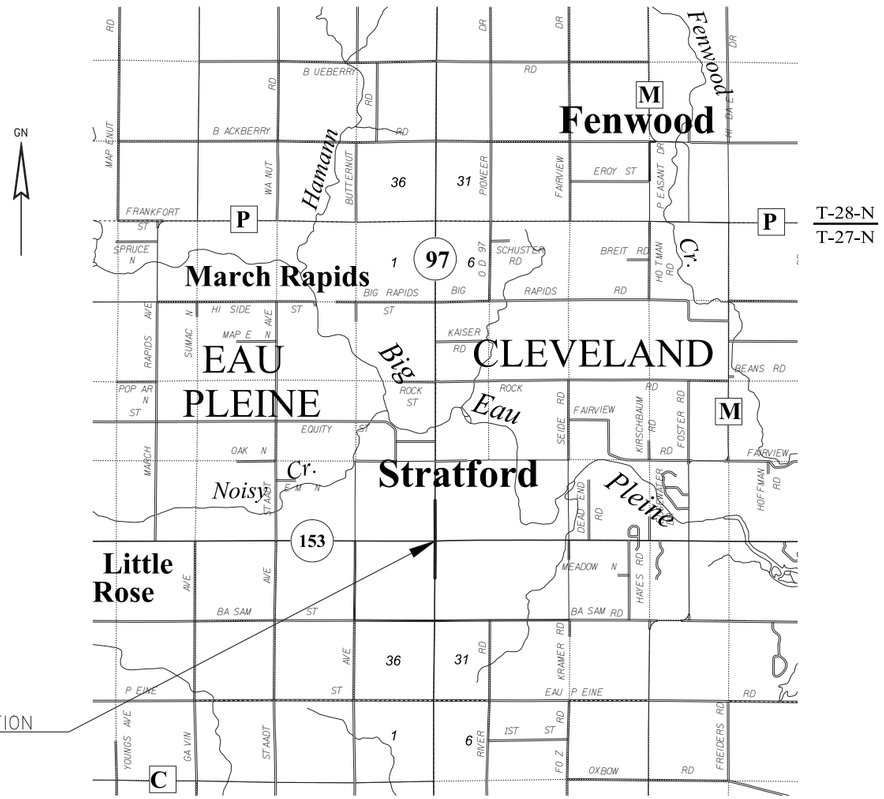
BRIDGE
PARCEL NUMBER — 25
UTILITY NUMBER — 40

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	SECTION LINE	S.L.
ACRES	AC	POINT OF COMPOUND CURVE	PCC
AHEAD	AH	POINT OF INTERSECTION	PI
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	SUBDIVISION	SUBD
EASEMENT	EASE	TANGENT	TAN
EXISTING	EX	TELEPHONE PEDESTAL	TP
GAS VALVE	GV	TEMPORARY LIMITED EASEMENT	TLE
GRID NORTH	GN	TRANSPORTATION PROJECT PLAT	TPP
HIGHWAY EASEMENT	HE	UNITED STATES HIGHWAY	USH
IDENTIFICATION	ID	VOLUME	V
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY NUMBER	NGS		
OUTLOT	NO		
PAGE	OL		
POINT OF TANGENCY	P		
PERMANENT LIMITED EASEMENT	PT		
POINT OF BEGINNING	PLE		
POINT OF CURVATURE	POB		
	PC		

CURVE DATA

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



CONVENTIONAL UTILITY SYMBOLS

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

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 6380-04-27.

NOTES:

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

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" x 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

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

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

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

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\040100_RP_TITLE.DWG
APPRAISAL PLAT DATE :
PLOT DATE : 6/9/2016 3:24 PM
PLOT BY : TIM RUTZEN
PLOT NAME : ----------
6380-04-27-4.01
LAYOUT NAME - ****

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

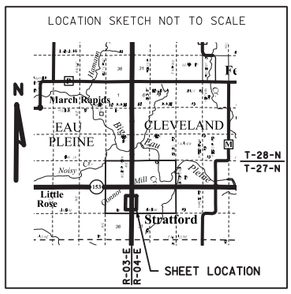
TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.01

THAT PART OF NE 1/4 OF THE SE 1/4 AND THE SE 1/4 OF THE NE 1/4 OF SECTION 25, TOWNSHIP 27 NORTH, RANGE 3 EAST, ALSO BEING PART OF THE FRACTIONAL NW 1/4 AND FRACTIONAL SW 1/4 OF SECTION 30, TOWNSHIP 27 NORTH, RANGE 4 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

STRATFORD - GOODRICH (SOUTH STREET - STH 29)

THE STATE OF WISCONSIN HAS DEEMED IT NECESSARY TO MONUMENT RIGHT-OF-WAY INTERESTS PREVIOUSLY ACQUIRED UNDER SECTIONS 82.01, 82.31(1), 82.31(2), AND 84.09 OF THE WISCONSIN STATE STATUTES AND DOES HEREBY CERTIFY THE DEPARTMENT OF TRANSPORTATION HAS SURVEYED THE HIGHWAY RIGHT-OF-WAY; THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND SHOWS ACCURATE MEASUREMENTS THEREOF.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 6th
Day of JULY A.D. 20 16
AT 3:05 O'CLOCK P. M.
In Plat cabinet no. 3 on page 349A
Michael J. Sydow
REGISTER

92

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.01
AMENDMENT NO:---
SHEET 1 OF 2

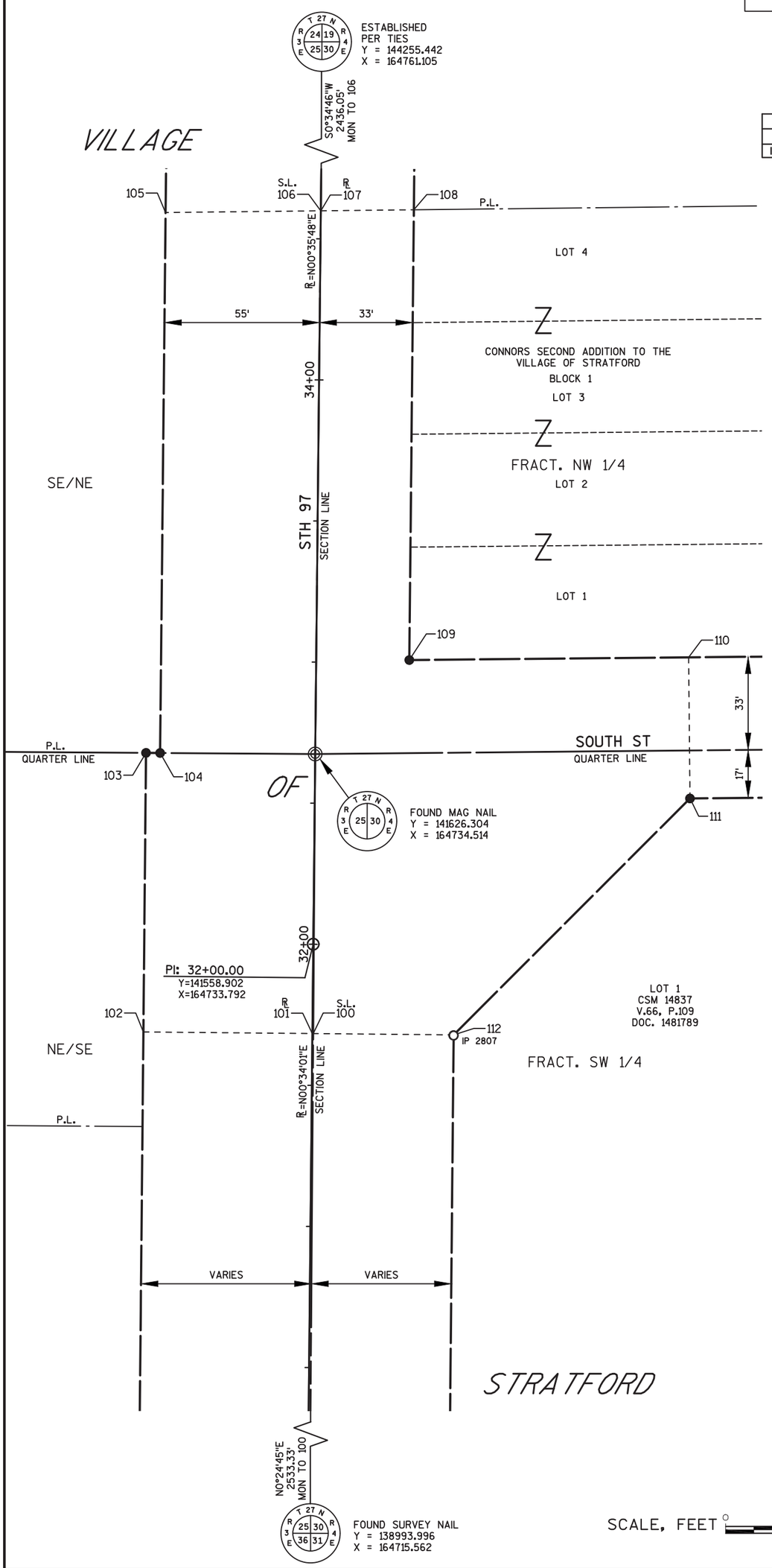
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	RW PLAT T 015(6)	1966
STH 97/SOUTH ST	CSM 14837	2007
STH 97/SOUTH ST	CONNORS SECOND ADDITION TO THE VILLAGE OF STRATFORD	1901

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2807	141526.580	164783.570	1.00" IRON ROD

COURSE TABLE		
COURSE	BEARING	DISTANCE
100–101	N89°27'38"W	0.32'
101–102	N89°27'38"W	59.90'
102–103	N0°32'22"E	98.90'
103–104	S89°35'43"E	5.00'
104–105	N0°34'46"E	191.52'
105–106	N89°21'44"E	55.01'
106–107	N89°21'44"E	0.04'
107–108	N89°21'44"E	32.97'
108–109	S0°34'46"W	159.57'
109–110	N89°26'58"E	99.03'
110–111	S0°33'02"E	50.00'
111–112	S44°59'51"W	118.49'
112–100	N89°27'38"W	49.78'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
100	31+68.36	0.32'
101	31+68.36	0.00'
102	31+68.33	–59.90'
103	32+67.20	–59.98'
104	32+67.22	–54.98'
105	34+58.74	–55.04'
106	34+59.93	–0.04'
107	34+59.93	0.00'
108	34+60.64	32.96'
109	33+01.07	33.01'
110	33+03.05	132.02'
111	32+53.06	133.02'
* 112	31+68.38	50.10'

* NO TYPE 2 MONUMENT SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE OR STATION & OFFSETS FOR ULTIMATE R/W



REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 FOR ADDITIONAL INFORMATION

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

GN

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 6-9-2016
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L Stella DATE: 6-27-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

6380-04-27-4.01

PLOT NAME : PLOT SCALE : ==========
PLOT BY : Tim Rutzen
PLOT DATE : 6/9/2016 3:26 PM
PLOT DATE :
FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADD\63800477\SHEETSPLAN\040101_RP.DWG
APPRAISAL PLAT DATE :

4

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

DOC# 1717845

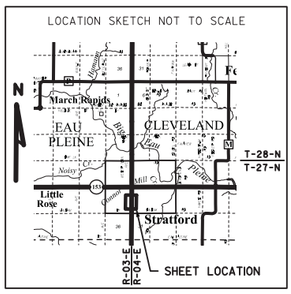
TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.02

THAT PART OF THE SE 1/4 OF THE NE 1/4 OF SECTION 25, TOWNSHIP 27 NORTH, RANGE 3 EAST, ALSO BEING PART OF THE FRACTIONAL NW 1/4 OF SECTION 30, TOWNSHIP 27 NORTH, RANGE 4 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

STRATFORD - GOODRICH (SOUTH STREET - STH 29)

THE STATE OF WISCONSIN HAS DEEMED IT NECESSARY TO MONUMENT RIGHT-OF-WAY INTERESTS PREVIOUSLY ACQUIRED UNDER SECTIONS 82.01, 82.31(1), 82.31(2), AND 84.09 OF THE WISCONSIN STATE STATUTES AND DOES HEREBY CERTIFY THE DEPARTMENT OF TRANSPORTATION HAS SURVEYED THE HIGHWAY RIGHT-OF-WAY; THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND SHOWS ACCURATE MEASUREMENTS THEREOF.

LOCATION SKETCH NOT TO SCALE

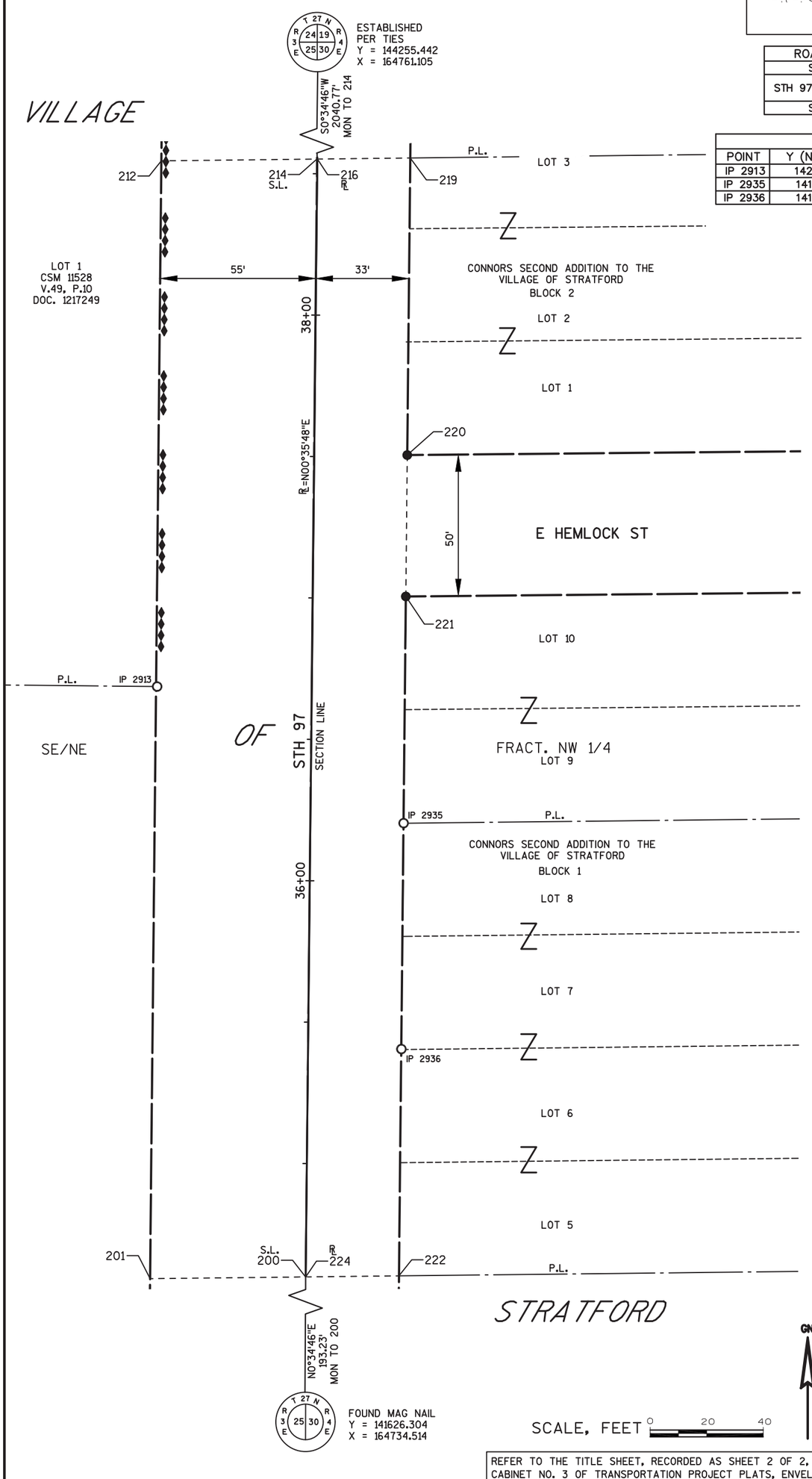


REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 20 16
AT 12:24:50 O'CLOCK P. M.
In Plat cabinet no. 3 on page 549B
Michael J. Sydow
REGISTER

93

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.02
AMENDMENT NO:---

ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	RW PLAT T 015(6)	1966
STH 97/HEMLOCK ST	CONNORS SECOND ADDITION TO THE VILLAGE OF STRATFORD	1901
STH 97	CSM 11528	2000



EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2913	142027.552	164683.965	1.25" O.D. IRON PIPE
IP 2935	141979.252	164771.115	0.75" IRON ROD
IP 2936	141899.383	164770.334	0.75" IRON ROD

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
200	34+59.93	-0.04'
201	34+58.74	-55.04'
212	38+53.98	-55.15'
214	38+55.19	-0.16'
216	38+55.19	0.00'
219	38+55.91	32.85'
220	37+50.87	32.88'
221	37+00.86	32.89'
222	34+60.64	32.96'
224	34+59.93	0.00'

COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	S89°21'44"W	55.01'
201-212	N0°34'46"E	395.24'
212-214	N89°20'19"E	55.01'
214-216	N89°20'19"E	0.15'
216-219	N89°20'19"E	32.85'
219-220	S0°34'46"W	105.04'
220-221	S0°34'46"W	50.01'
221-222	S0°34'46"W	240.23'
222-224	S89°21'44"W	32.97'
224-200	S89°21'44"W	0.04'

GN

SCALE, FEET 0 20 40

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

EXISTING ACCESS CONTROL WAS ESTABLISHED PER CSM 11528

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 7-13-2016
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
Brent L. Stella DATE: 7-15-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

6380-04-27-4.02

PLOT NAME : PLOT SCALE : ##########
PLOT BY : Michael Higgins
PLOT DATE : 7/14/2016 3:15 PM
PLOT DATE :
FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\040102_RP.DWG
APPRAISAL PLAT DATE :

4

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

DOC# 1717846

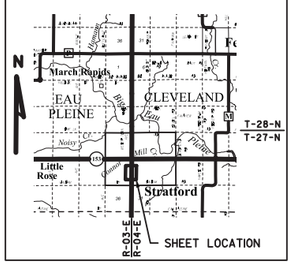
TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.03

THAT PART OF THE SE 1/4 OF THE NE 1/4 OF SECTION 25, TOWNSHIP 27 NORTH, RANGE 3 EAST, ALSO BEING PART OF THE FRACTIONAL NW 1/4 OF SECTION 30, TOWNSHIP 27 NORTH, RANGE 4 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

STRATFORD - GOODRICH (SOUTH STREET - STH 29)

THE STATE OF WISCONSIN HAS DEEMED IT NECESSARY TO MONUMENT RIGHT-OF-WAY INTERESTS PREVIOUSLY ACQUIRED UNDER SECTIONS 82.01, 82.31(1), 82.31(2), AND 84.09 OF THE WISCONSIN STATE STATUTES AND DOES HEREBY CERTIFY THE DEPARTMENT OF TRANSPORTATION HAS SURVEYED THE HIGHWAY RIGHT-OF-WAY; THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND SHOWS ACCURATE MEASUREMENTS THEREOF.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of July A.D. 20 16
AT 12:34:51 O'CLOCK P. M.
In Plat cabinet no. 3 on page 549A
Michael J. Sydow
REGISTER

94

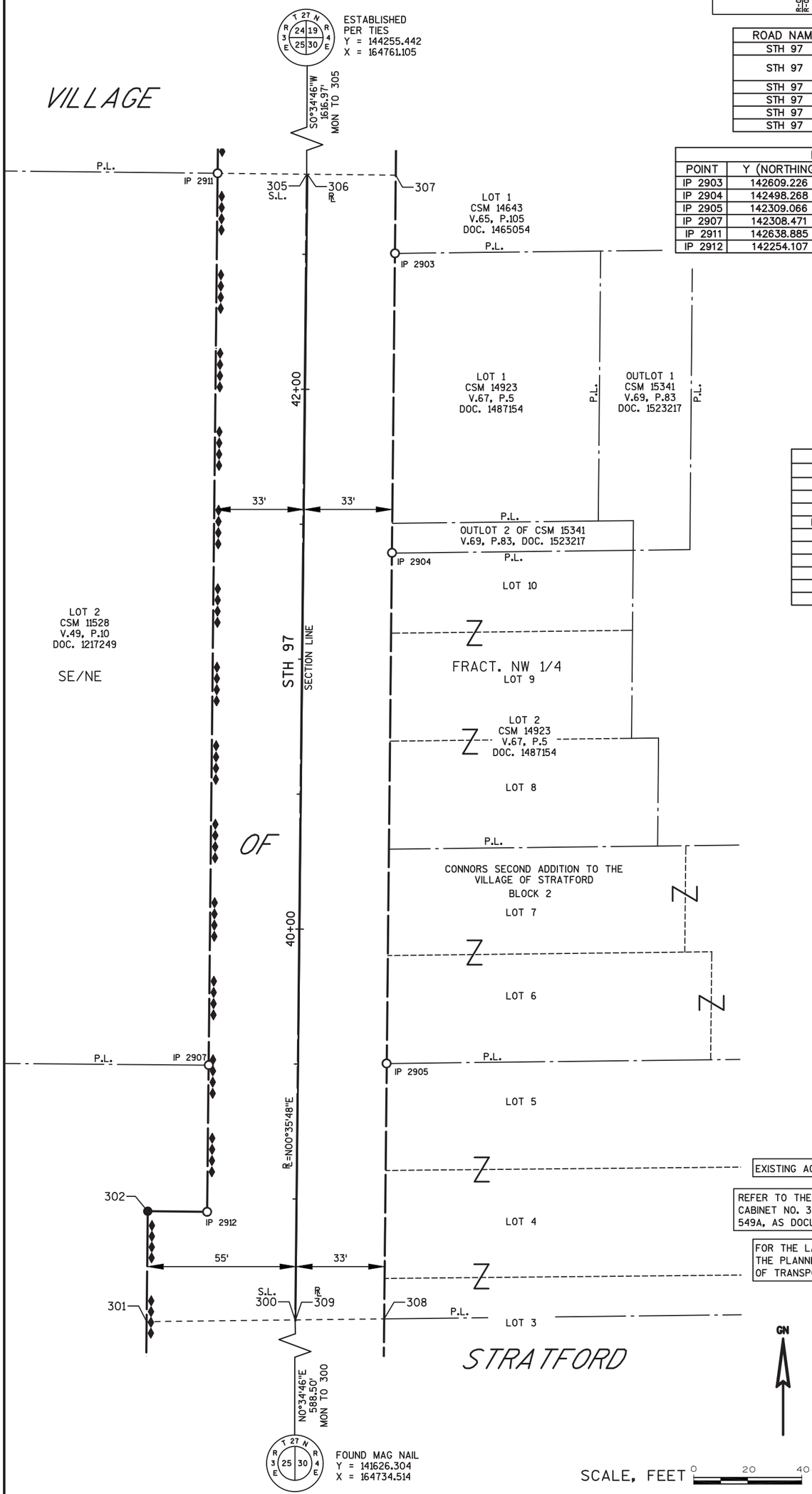
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.03
AMENDMENT NO:---

ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	RW PLAT T 015(6)	1966
STH 97	CONNORS SECOND ADDITION TO THE VILLAGE OF STRATFORD	1901
STH 97	CSM 11528	2000
STH 97	CSM 14923	2007
STH 97	CSM 15341	2008
STH 97	CSM 14643	2006

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2903	142609.226	164777.486	1.25" O.D. IRON PIPE
IP 2904	142498.268	164776.377	0.75" IRON ROD
IP 2905	142309.066	164774.367	1.25" O.D. IRON PIPE
IP 2907	142308.471	164708.483	0.75" IRON ROD
IP 2911	142638.885	164711.753	0.75" IRON ROD
IP 2912	142254.107	164707.862	1.25" O.D. IRON PIPE

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
300	38+55.19	0.16'
301	38+53.98	-55.15'
302	38+94.89	-55.17'
305	42+79.69	-0.28'
306	42+79.69	0.00'
307	42+79.68	32.72'
308	38+55.91	32.85'
309	38+55.19	0.00'
IP 2911	42+79.69	-33.28'
IP 2912	38+94.89	-33.17'

COURSE TABLE		
COURSE	BEARING	DISTANCE
300-301	S89°20'19"W	55.01'
301-302	N0°34'46"E	40.91'
302-IP 2912	S89°25'14"E	22.00'
IP 2912-IP 2911	N0°34'46"E	384.80'
IP 2911-305	S89°23'38"E	33.00'
305-306	S89°23'38"E	0.28'
306-307	S89°23'38"E	32.72'
307-308	S0°34'46"W	423.77'
308-309	S89°20'19"W	32.85'
309-300	S89°20'19"W	0.15'



EXISTING ACCESS CONTROL WAS ESTABLISHED PER CSM 11528

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-2016
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 7-15-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

6380-04-27-4.03

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADD\6380047T\SHEETSPLAN\040103_RP.DWG
PLOT DATE : 7/14/2016 3:18 PM
PLOT BY : Michael Higgins
PLOT NAME :
PLOT SCALE : 1.000000
PLOT DATE :
APPRAISAL PLAT DATE :

4

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

DOC# 1717847

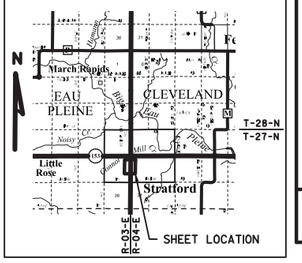
TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.04

THAT PART OF SE 1/4 OF THE NE 1/4 AND THE NE 1/4 OF THE NE 1/4 OF SECTION 25, TOWNSHIP 27 NORTH, RANGE 3 EAST, ALSO BEING PART OF THE FRACTIONAL NW 1/4 OF SECTION 30, TOWNSHIP 27 NORTH, RANGE 4 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

STRATFORD - GOODRICH (SOUTH STREET - STH 29)

THE STATE OF WISCONSIN HAS DEEMED IT NECESSARY TO MONUMENT RIGHT-OF-WAY INTERESTS PREVIOUSLY ACQUIRED UNDER SECTIONS 82.01, 82.31(1), 82.31(2), AND 84.09 OF THE WISCONSIN STATE STATUTES AND DOES HEREBY CERTIFY THE DEPARTMENT OF TRANSPORTATION HAS SURVEYED THE HIGHWAY RIGHT-OF-WAY; THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND SHOWS ACCURATE MEASUREMENTS THEREOF.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 20 16
AT 12:24:51 O'CLOCK P. M.
In Plat cabinet no. 3 on page 550B
Michael J. Snyder
REGISTAR

95

6380-04-27-4.04

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.04
AMENDMENT NO:---

ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	CSM 11528	2000
STH 97	CSM 14643	2006

VILLAGE

ESTABLISHED
PER TIES
Y = 144255.442
X = 164761.105

S0°34'46"W
187.42'
MON TO 401

IP 2917
IP 2916
P.L.
401
S.L.
402
℄
403

NE/NE

FRACT. NW 1/4

46+00

1/16 LINE
1/16 LINE

LOT 3
CSM 11528
V.49, P.10
DOC. 1217249

STH 97
SECTION LINE

SE/NE

FRACT. NW 1/4

OF

℄=N00°35'48"E

33'
33'

44+00

P.L.

LOT 1
CSM 14643
V.65, P.105
DOC. 1465054

STRATFORD

S.L.
400
℄
405
404

P.L.
IP 2911

N0°34'46"E
1012.13'
MON TO 400

FOUND MAG NAIL
Y = 141626.304
X = 164734.514

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2911	142638.885	164711.753	0.75" IRON ROD
IP 2916	143052.026	164699.600	1.25" O.D. IRON PIPE
IP 2917	143068.416	164716.098	1.25" O.D. IRON PIPE

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2911	142638.885	164711.753	0.75" IRON ROD
IP 2916	143052.026	164699.600	1.25" O.D. IRON PIPE
IP 2917	143068.416	164716.098	1.25" O.D. IRON PIPE

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
400	42+79.69	-0.28'
401	47+09.25	-0.41'
402	47+09.25	0.00'
403	47+09.26	32.59'
404	42+79.68	32.72'
405	42+79.69	0.00'
IP 2911	42+79.69	-33.28'
IP 2917	47+09.24	-33.41'

COURSE TABLE		
COURSE	BEARING	DISTANCE
400-IP2911	N89°23'38"W	33.00'
IP 2911-IP 2917	N0°34'46"E	429.55'
IP 2917-401	S89°25'14"E	33.00'
401-402	S89°25'14"E	0.41'
402-403	S89°25'14"E	32.59'
403-404	S0°34'46"W	429.58'
404-405	N89°23'38"W	32.72'
405-400	N89°23'38"W	0.28'

EXISTING ACCESS CONTROL WAS ESTABLISHED PER CSM 11528

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

GN

SCALE, FEET 0 20 40

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-2016

TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 7-15-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

FILE NAME : P:\48XX\4861.DP.14.STH97.MARV\CADD\63800477\SHEETSPLAN\040104_RP.DWG
PLOT DATE : 7/14/2016 3:21 PM
PLOT BY : Michael Higgins
PLOT NAME : PLOT SCALE : 1.000000
APPRAISAL PLAT DATE :

4

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

DOC# 1717848

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.05

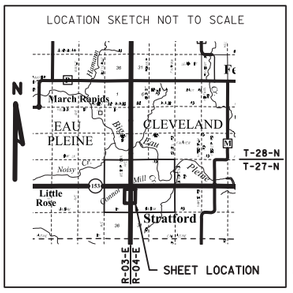
THAT PART OF LOT 1, CSM 14754, LOCATED IN AND PART OF THE NE 1/4 OF THE NE 1/4, SECTION 25, TOWNSHIP 27 NORTH, RANGE 3 EAST, ALSO BEING PART OF THE FRACTIONAL NW 1/4 OF SECTION 30, TOWNSHIP 27 NORTH, RANGE 4 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 20 16
AT 12:45:51 O'CLOCK P. M.
In Plat cabinet no. 3 on page 551A
Michael J. Sydow
REGISTAR

96

6380-04-27-4.05

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.05
AMENDMENT NO:---

ESTABLISHED PER TIES
Y = 144255.442
X = 164761.105

T 27 N, R 3 E, R 4 E, Sections 24, 19, 25, 30

S0°34'46"W 702.39' MON TO 502

501 IP 2920 — 502 S.L. — 503 PP — 508 — IP 2301

60'

3RD AVE S

KANN ST 60'

SAN — MH — G — 506 IP 2924

VILLAGE

LOT 1 CSM 14754 V.66, P.26 DOC. 1474555

PRW528 — 202 — 2 — TLE559 — TLE558

R=N00°35'48"E

LOT 1 CSM 6181 V.23, P.9 DOC. 936801

IP 2300 — 507

50+00

33' 33'

CONNER MILL CREEK

TLE557 — PRW527 — PRW526 — TLE556

NE/NE

PRW525 — PRW524

STH 97 SECTION LINE

OF

P.L.

TLE560 — TLE561 — TLE562 — PRW530 — PRW529 — 205 — 3

FRACT. NW 1/4

50' INGRESS/EGRESS EASEMENT DOC. 1294105

201 — MH — IP 2923 — TLE555 — TLE554

SAN — MH

TLE563 — PRW531

48+00

205 — TLE553

100' EASEMENT FOR CONSTRUCTION & MAINTENANCE OF RECREATIONAL TRAIL V.714, P.1145, DOC. 1055729

PRW532 — 4 — TLE564

STRATFORD

PRW522 — PRW523 — TLE552

1 — TLE551 — TLE550 — IP 2917

S.L. 500 — PRW520 — PRW521 — PP 505 — 504 — TLE565 — TLE566

N0°34'46"E 1441.85' MON TO 500

T 27 N, R 3 E, R 4 E, Sections 25, 30

FOUND MAG NAIL
Y = 141626.304
X = 164734.514

GN

SCALE, FEET 0 20 40

BASIS OF RIGHT OF WAY TABLE		
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97/KANN ST	CSM 14754	2007
STH 97/3RD AVE S	CSM 6181	1990

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2300	143379.060	164785.430	0.75" IRON ROD
IP 2301	143552.184	164828.579	0.75" IRON ROD
IP 2917	143068.416	164716.098	1.25" O.D. IRON PIPE
IP 2920	143552.074	164720.833	0.75" IRON ROD
IP 2923	143214.423	164717.694	0.75" IRON ROD
IP 2924	143492.947	164720.118	2.375" O.D. IRON PIPE

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
1	VILLAGE OF STRATFORD	FEE/TLE	0.006	---	0.006	0.030
2	MEDITERRANEAN MHC, LLC	FEE/TLE	0.035	---	0.035	0.050
3	PROVISION PARTNERS COOPERATIVE	FEE/TLE	0.029	---	0.029	0.008
4	STRATFORD HOMES LIMITED PARTNERSHIP	TLE	---	---	---	0.024

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
201	WIS. GAS LLC D/B/A/ WE ENERGIES (GAS)	RELEASE OF RIGHTS
202	FRONTIER NORTH INC.	RELEASE OF RIGHTS
203	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
204	AMERICAN TRANSMISSION COMPANY, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	RELEASE OF RIGHTS
205	STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)	RELEASE OF RIGHTS

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
500	47+09.25	−0.41'
*501	51+93.77	−33.55'
502	51+93.69	−0.55'
503	51+93.69	0.00'
504	47+09.26	32.59'
505	47+09.25	0.00'
*506	51+33.77	−33.54'
*507	50+20.72	32.50'
508	51+93.60	32.45'
PRW520	47+25.00	−33.41'
PRW521	47+25.00	−46.00'
PRW522	47+47.00	−46.00'
PRW523	47+47.02	−33.42'
PRW524	49+00.00	−33.47'
PRW525	49+00.00	−57.00'
PRW526	49+14.00	−57.00'
PRW527	49+14.00	−40.00'
PRW528	50+65.00	−40.00'
PRW529	48+44.00	32.55'
PRW530	48+44.00	42.00'
PRW531	48+22.94	69.00'
PRW532	47+80.43	32.57'
IP 2917	47+09.24	−33.41'

COURSE TABLE		
COURSE	BEARING	DISTANCE
500–IP 2917	N89°25'14"W	33.00'
IP 2917–PRW520	N0°34'46"E	15.76'
PRW520–PRW521	N89°24'12"W	12.59'
PRW521–PRW522	N0°35'48"E	22.00'
PRW522–PRW523	S89°24'12"E	12.58'
PRW523–PRW524	N0°34'46"E	153.00'
PRW524–PRW525	N89°24'12"W	23.53'
PRW525–PRW526	N0°35'48"E	14.00'
PRW526–PRW527	S89°24'12"E	17.00'
PRW527–PRW528	N0°35'48"E	151.00'
PRW528–506	N5°57'58"E	69.08'
506–501	N0°34'46"E	60.00'
501–502	S89°15'13"E	33.00'
502–503	S89°15'13"E	0.55'
503–508	S89°15'13"E	32.45'
508–507	S0°34'46"W	172.88'
507–PRW529	S0°34'46"W	176.72'
PRW529–PRW530	S89°24'12"E	9.45'
PRW530–PRW531	S51°27'19"E	34.24'
PRW531–PRW532	S41°11'13"W	55.99'
PRW532–504	S0°34'46"W	71.16'
504–505	N89°25'14"W	32.59'
505–500	N89°25'14"W	0.41'

* NO TYPE 2 MONUMENT SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE OR STATION & OFFSETS FOR ULTIMATE R/W

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE550	47+11.99	−33.41'
TLE551	47+25.00	−50.00'
TLE552	47+45.00	−50.00'
TLE553	47+60.00	−44.00'
TLE554	48+58.00	−44.00'
TLE555	48+58.00	−57.00'
TLE556	49+08.00	−70.00'
TLE557	49+44.00	−45.00'
TLE558	50+00.00	−45.00'
TLE559	50+00.00	−40.00'
TLE560	48+67.00	32.54'
TLE561	48+67.00	38.00'
TLE562	48+54.00	38.00'
TLE563	48+18.00	83.00'
TLE564	47+70.00	40.00'
TLE565	47+45.00	40.00'
TLE566	47+45.00	32.58'

(201) WIS. GAS LLC D/B/A/ WE ENERGIES (GAS)
NO EASEMENT OF RECORD – PAR. 2

(202) FRONTIER NORTH INC.
DOC. 661309 – PAR. 2
NO EASEMENT OF RECORD – PAR. 2

(203) CHARTER COMMUNICATIONS
DOC. 1596227 – PAR. 2

(204) AMERICAN TRANSMISSION COMPANY, LLC, A WISCONSIN LIMITED LIABILITY COMPANY
DOC. 1582319 – PAR. 1

(205) STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)
NO EASEMENT OF RECORD – PAR. 1, 2, 3

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-16

TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 7-14-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

6380-04-27-4.05

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADD\63800477\SHEETSPLAN\040105_RP.DWG PLOT DATE : PLOT DATE : 7/13/2016 10:47 AM PLOT BY : Michael Higgins PLOT NAME : PLOT SCALE : 1.000000
APPRAISAL PLAT DATE :

4

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

DOC# 1717849

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.06

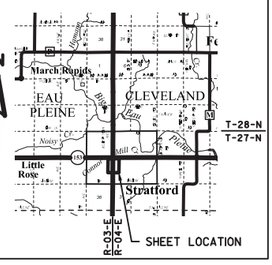
THAT PART OF LOT 21, BLOCK 22 MAP OF THE VILLAGE OF STRATFORD WIS, PART OF LOT 1 CSM 10065, LOCATED IN AND PART OF THE FRACTIONAL NW 1/4 OF SECTION 30, TOWNSHIP 27 NORTH, RANGE 4 EAST, ALSO BEING PART OF THE NE 1/4 OF THE NE 1/4 OF SECTION 25, TOWNSHIP 27 NORTH, RANGE 3 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



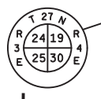
REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 20 16
AT 12:24:51 O'CLOCK P.M.
In Plat cabinet no 3 on page 549A
Michael J. Sigrao
REGISTAR

97

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.06
AMENDMENT NO:___

6380-04-27-4.06

ESTABLISHED PER TIES
Y = 144255.442
X = 164761.105



S0°34'46"W 237.92' MON TO 605

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
6	VILLAGE OF STRATFORD	TLE	---	---	---	0.001
7	LAND CONTRACT JILL & EDWARD R. MIELKE (VENDOR) MICHAEL AND JACKIE FITZGERALD (PURCHASER)	TLE	---	---	---	0.001

BASIS OF RIGHT OF WAY TABLE		
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97/KANN ST/ MEADOW ST	KANNS ADDITION TO THE VILLAGE OF STRATFORD	1955
STH 97/3RD AVE S	CSM 10065	1998
STH 97	CSM 13204	2004
STH 97	CSM 4803	1998
STH 97	MAP OF THE VILLAGE OF STRATFORD WIS	1891

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2301	143552.184	164828.579	0.75" IRON ROD
IP 2908	143807.476	164789.639	1.25" O.D. IRON PIPE
IP 2909	143973.267	164790.866	1.25" O.D. IRON PIPE
IP 2920	143552.074	164720.833	0.75" IRON ROD
IP 2938	143578.882	164844.220	0.75" IRON ROD

COURSE TABLE		
COURSE	BEARING	DISTANCE
600–601	N89°15'13"W	33.00'
601–602	N0°34'46"E	299.20'
602–603	N0°34'46"E	60.00'
603–604	N0°34'46"E	105.50'
604–605	S89°44'32"E	33.00'
605–606	S89°44'32"E	0.69'
606–607	S89°44'32"E	32.31'
607–608	S0°34'46"W	465.26'
608–609	N89°15'13"W	32.45'
609–600	N89°15'13"W	0.55'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE620	55+52.93	-41.66'
TLE621	55+60.97	-33.66'
TLE622	52+08.00	32.44'
TLE623	52+08.00	36.00'
TLE624	51+93.64	35.70'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
600	51+93.69	-0.55'
*601	51+93.77	-33.55'
602	54+92.97	-33.64'
603	55+52.97	-33.66'
604	56+58.48	-33.69'
605	56+58.67	-0.69'
606	56+58.68	0.00'
607	56+58.87	32.31'
608	51+93.60	32.45'
609	51+93.69	0.00'

* NO TYPE 2 MONUMENT SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE OR STATION & OFFSETS FOR ULTIMATE R/W

VILLAGE

P.L.

604

605 S.L.

606 PRO

607

33' 33'

IP 2909

LOT 11

LOT 1 CSM 4803 V.17, P.271 DOC. 883433

LOT 12

LOT 13

LOT 1 CSM 13204 V.57, P.141 DOC. 1362817

LOT 14

OUTLOT 2 CSM 13204 V.57, P.141 DOC. 1362817

IP 2908

LOT 15

FRACT. NW 1/4

MAP OF THE VILLAGE OF STRATFORD WIS

BLOCK 22

LOT 16

LOT 17

LOT 1 CSM 10065 V.41, P.88 DOC. 1127419

LOT 18

LOT 19

LOT 20

LOT 21

56+00

54+00

52+00

TLE621

7

TLE620

603

R=N00°35'48"E

W MEADOW ST

60'

602

LOT 1

NE/NE

SECTION LINE

OF

LOT 2

KANNS ADDITION TO THE VILLAGE OF STRATFORD

BLOCK 2

STH 97

LOT 3

LOT 4

601

IP 2920

S.L. 600

608

609

TLE622

TLE623

6

TLE624

IP 2938

IP 2301

3RD AVE S

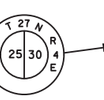
60'

N0°34'46"E 1326.29' MON TO 600

KANN ST

STRATFORD

FOUND MAG NAIL
Y = 141626.304
X = 164734.514



FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

GN

SCALE, FEET 0 20 40

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-16

TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 7-14-2016

(SIGNATURE)

(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADD\63800477\SHEETSPLAN\040106_RP.DWG PLOT DATE : PLOT DATE : 7/13/2016 10:51 AM PLOT BY : Michael Higgins PLOT NAME : PLOT SCALE : 1.000000
APPRAISAL PLAT DATE :

4

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

DOC# 1717850

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.07

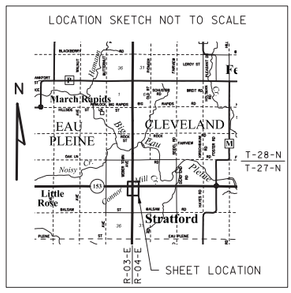
THAT PART OF LOTS 1 & 2, BLOCK 1, HENRY H. ASCHBRENNERS FIRST ADDITION TO THE VILLAGE OF STRATFORD WIS, LOCATED IN THE SE1/4 OF THE SE 1/4, SECTION 24, ALSO PART OF THE NE 1/4 OF THE NE 1/4 OF SECTION 25, ALL BEING IN TOWNSHIP 27 NORTH, RANGE 3 EAST; ALSO PART OF LOTS 11 & 12, BLOCK 20, MAP OF THE VILLAGE OF STRATFORD WIS, LOCATED IN THE FRACTIONAL SW 1/4, SECTION 19, ALSO PART OF LOTS 7 & 8, BLOCK 22, MAP OF THE VILLAGE OF STRATFORD WIS, LOCATED IN PART OF THE FRACTIONAL NW 1/4, SECTION 30, TOWNSHIP 27 NORTH, RANGE 4 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

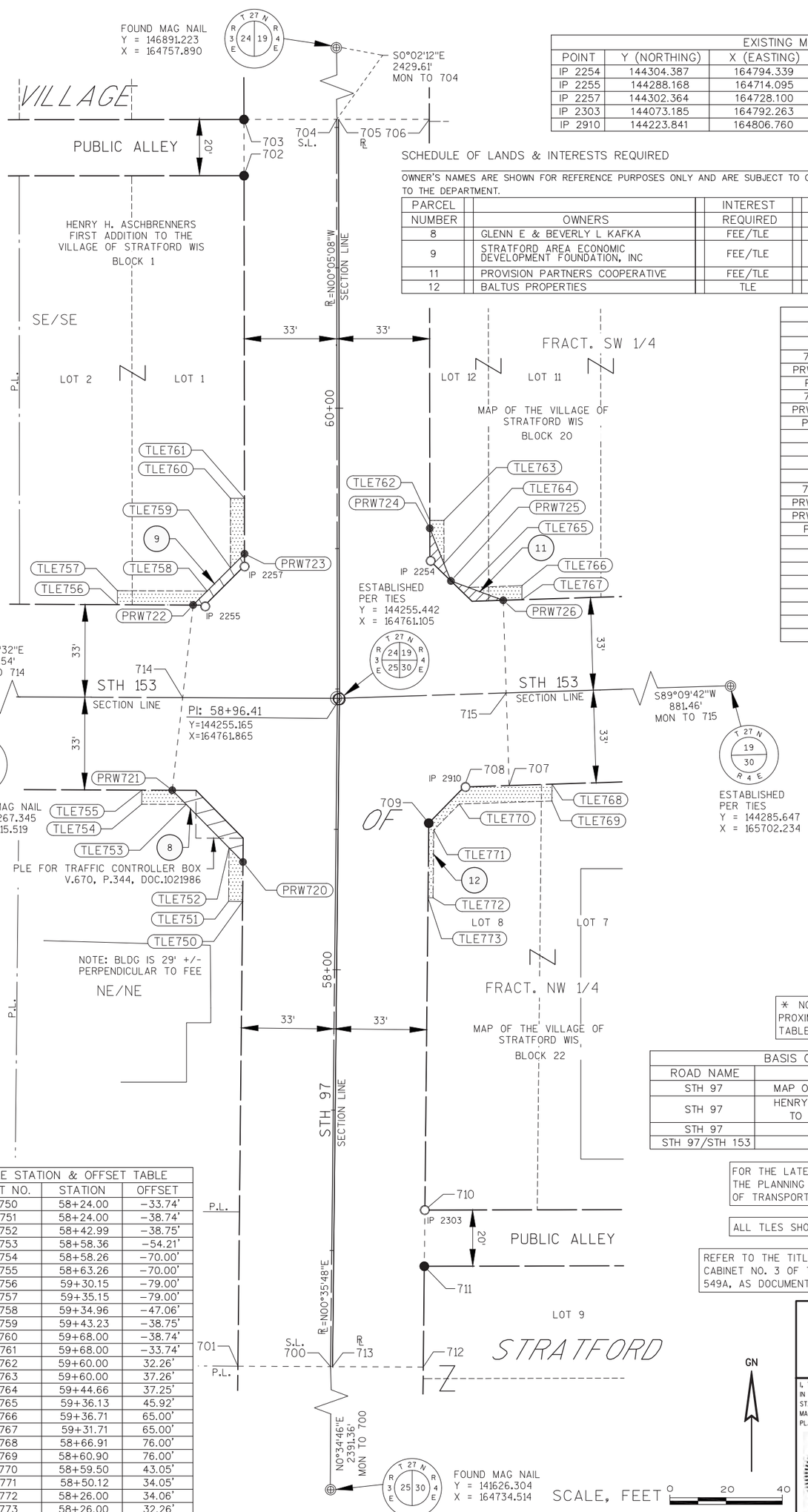
LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 2016
AT 12:45 O'CLOCK P.M.
In Plat cabinet no. 3 on page 552A
Michael J. Sydow
REGISTAR

98

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.07
AMENDMENT NO:___



EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2254	144304.387	164794.339	CHISELED X
IP 2255	144288.168	164714.095	CHISELED X
IP 2257	144302.364	164728.100	1.25" O.D. IRON PIPE
IP 2303	144073.185	164792.263	0.75" IRON ROD TIPPED UNDER ASPHALT
IP 2910	144223.841	164806.760	CHISELED X

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
8	GLENN E & BEVERLY L KAFKA	FEE/TLE	0.004	---	0.004	0.003
9	STRATFORD AREA ECONOMIC DEVELOPMENT FOUNDATION, INC	FEE/TLE	0.002	---	0.002	0.006
11	PROVISION PARTNERS COOPERATIVE	FEE/TLE	0.002	---	0.002	0.003
12	BALTUS PROPERTIES	TLE	---	---	---	0.007

COURSE TABLE		
COURSE	BEARING	DISTANCE
700–701	N89°44'32"W	33.00'
701–PRW720	N0°34'46"E	179.54'
PRW720–PRW721	N44°34'25"W	35.90'
PRW721–714	N6°26'00"E	33.19'
714–PRW722	N6°26'00"E	33.19'
PRW722–PRW723	N45°04'27"E	25.83'
PRW723–702	N0°04'12"W	134.67'
702–703	N0°04'12"W	20.00'
703–704	N89°56'57"E	33.00'
704–705	N89°56'57"E	0.70'
705–706	N89°56'57"E	32.30'
706–PRW724	S0°04'12"E	145.63'
PRW724–PRW725	S21°48'11"E	20.21'
PRW725–PRW726	S69°42'15"E	19.86'
PRW726–715	S1°50'18"E	33.00'
715–707	S1°50'18"E	33.00'
707–708	S88°09'42"W	16.03'
708–709	S44°23'29"W	18.02'
709–710	S0°34'46"W	137.82'
710–711	S0°34'46"W	20.00'
711–712	S0°34'46"W	35.88'
712–713	N89°44'32"W	32.31'
713–700	N89°44'32"W	0.69'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
700	56+58.67	–0.69'
701	56+58.48	–33.69'
702	60+82.88	–33.71'
703	61+02.88	–33.70'
704	61+02.86	–0.70'
705	61+02.85	0.00'
706	61+02.84	32.30'
707	58+66.26	60.74'
* 708	58+65.58	44.72'
709	58+52.57	32.25'
* 710	57+14.75	32.29'
711	56+94.75	32.30'
712	56+58.87	32.31'
713	56+58.68	0.00'
714	58+97.01	–55.83'
715	58+98.52	59.37'
PRW720	58+38.02	–33.75'
PRW721	58+63.33	–59.21'
PRW722	59+29.99	–52.06'
PRW723	59+48.20	–33.75'
PRW724	59+57.20	32.26'
PRW725	59+38.43	39.74'
PRW726	59+31.51	58.36'

* NO TYPE 2 MONUMENT SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE OR STATION & OFFSETS FOR ULTIMATE R/W

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE750	58+24.00	–33.74'
TLE751	58+24.00	–38.74'
TLE752	58+42.99	–38.75'
TLE753	58+58.36	–54.21'
TLE754	58+58.26	–70.00'
TLE755	58+63.26	–70.00'
TLE756	59+30.15	–79.00'
TLE757	59+35.15	–79.00'
TLE758	59+34.96	–47.06'
TLE759	59+43.23	–38.75'
TLE760	59+68.00	–38.74'
TLE761	59+68.00	–33.74'
TLE762	59+60.00	32.26'
TLE763	59+60.00	37.26'
TLE764	59+44.66	37.25'
TLE765	59+36.13	45.92'
TLE766	59+36.71	65.00'
TLE767	59+31.71	65.00'
TLE768	58+66.91	76.00'
TLE769	58+60.90	76.00'
TLE770	58+59.50	43.05'
TLE771	58+50.12	34.05'
TLE772	58+26.00	34.06'
TLE773	58+26.00	32.26'

BASIS OF RIGHT OF WAY TABLE		
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	MAP OF THE VILLAGE OF STRATFORD WIS	1891
STH 97	HENRY H. ASCHBRENNERS FIRST ADDITION TO THE VILLAGE OF STRATFORD WIS	1918
STH 97	CSM 9164	1996
STH 97/STH 153	RW PLAT 6370–02–21	1993

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-16
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L Stella DATE: 7-15-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

6380-04-27-4.07
PLOT NAME : PLOT SCALE : ##########
PLOT BY : Kevin Boyer
PLOT DATE : 9/12/2016 3:15 PM
PLOT DATE :
FILE NAME : P:\X8XXX4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\04010T_RP.DWG
APPRAISAL PLAT DATE :

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

DOC# 1717851

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.08

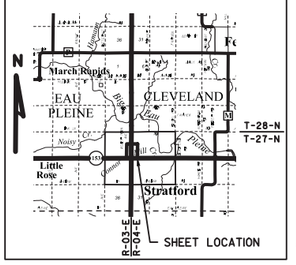
THAT PART OF LOT 9, BLOCK 18 & LOT 16, BLOCK 20, MAP OF THE VILLAGE OF STRATFORD WI, BEING PART OF THE FRACTIONAL SW 1/4 OF SECTION 19, TOWNSHIP 27 NORTH, RANGE 4 EAST; ALSO THAT PART OF LOTS 15 & 16, BLOCK 1, HENRY H. ASCHBRENNERS FIRST ADDITION TO THE VILLAGE OF STRATFORD WIS, LOCATED IN AND PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 24, TOWNSHIP 27 NORTH, RANGE 3 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 20 16
AT 12:24:51 O'CLOCK P M.
In Plat cabinet no. 3 on pages 549A
Michael J. Sykora
REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.08
AMENDMENT NO:___

99

6380-04-27-4.08

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
13	JOSEPH C & TAMMI S SCHWABE	FEE/TLE	0.002	---	0.002	0.004
16	DONALD C & ROSE MARIE WENZEL	TLE	---	---	---	0.002
17	KLEMME SALES, INC	TLE	---	---	---	0.002

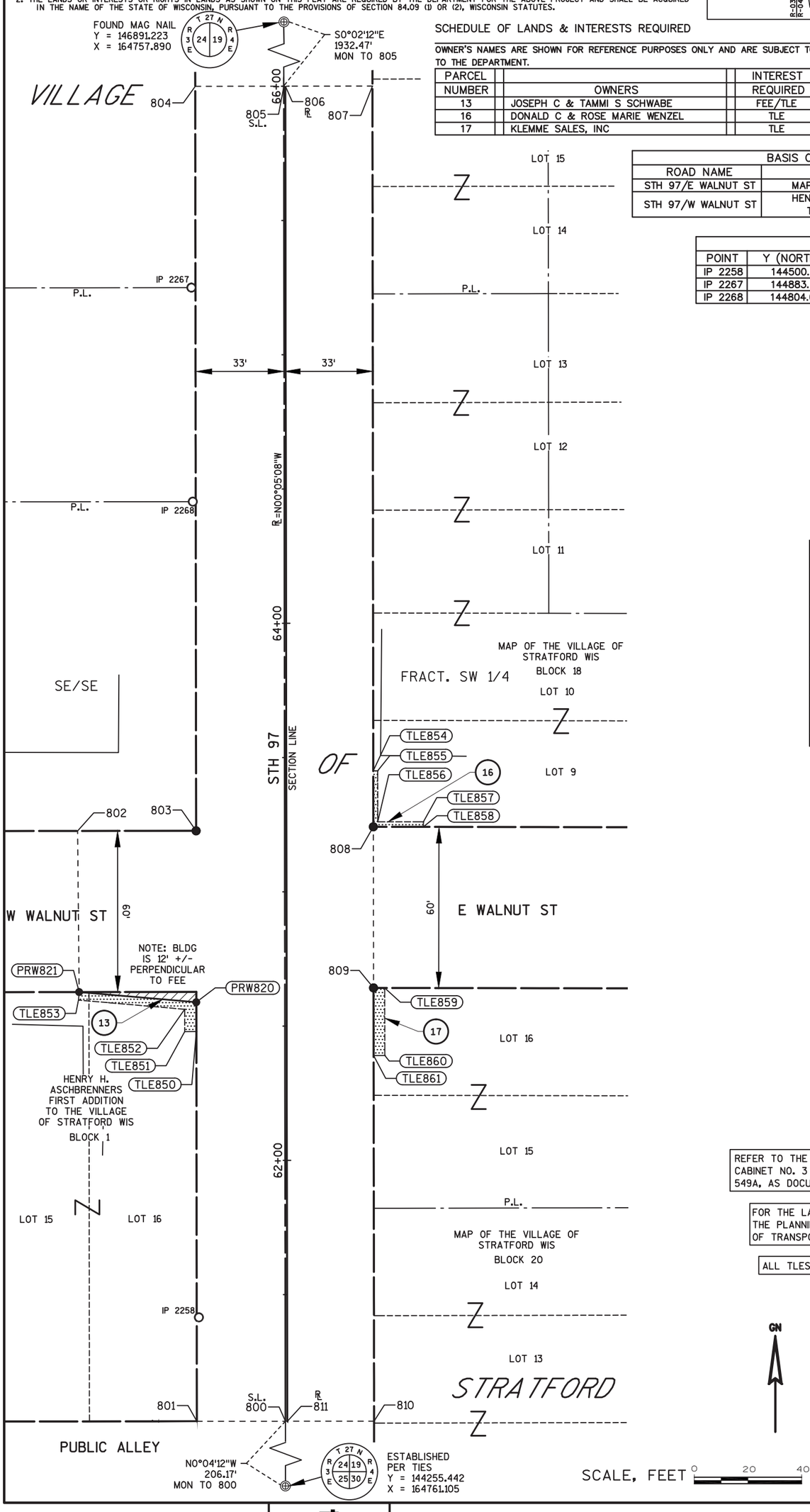
BASIS OF RIGHT OF WAY TABLE		
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97/E WALNUT ST	MAP OF THE VILLAGE OF STRATFORD WIS	1891
STH 97/W WALNUT ST	HENRY H. ASCHBRENNERS FIRST ADDITION TO THE VILLAGE OF STRATFORD WIS	1918

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2258	144500.291	164728.636	MAGNAIL
IP 2267	144883.743	164725.829	1.25" O.D. IRON PIPE
IP 2268	144804.045	164726.356	0.875" IROD

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
800	61+02.86	-0.70'
801	61+02.88	-33.70'
802	63+22.79	-77.78'
803	63+22.77	-33.64'
804	66+00.00	-33.57'
805	66+00.00	-0.57'
806	66+00.00	0.00'
807	66+00.00	32.43'
808	63+24.17	32.36'
809	62+64.17	32.34'
810	61+02.84	32.30'
811	61+02.85	0.00'
PRW820	62+58.95	-33.66'
PRW821	62+62.79	-77.30'

COURSE TABLE		
COURSE	BEARING	DISTANCE
800-801	S89°56'57"W	33.00'
801-PRW820	N0°04'12"W	156.08'
PRW820-PRW821	N85°03'47"W	43.81'
PRW821-802	N0°32'55"W	60.00'
802-803	N89°56'37"E	44.14'
803-804	N0°04'12"W	277.23'
804-805	N89°54'52"E	33.00'
805-806	N89°54'52"E	0.57'
806-807	N89°54'52"E	32.43'
807-808	S0°04'12"E	275.83'
808-809	S0°04'12"E	60.00'
809-810	S0°04'12"E	161.34'
810-811	S89°56'57"W	32.30'
811-800	S89°56'57"W	0.70'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE850	62+48.00	-33.66'
TLE851	62+48.00	-38.00'
TLE852	62+56.32	-38.00'
TLE853	62+59.80	-77.56'
TLE854	63+45.00	32.36'
TLE855	63+45.00	34.00'
TLE856	63+26.00	34.00'
TLE857	63+26.00	51.00'
TLE858	63+24.11	51.00'
TLE859	62+64.16	36.50'
TLE860	62+39.00	36.50'
TLE861	62+39.00	32.33'



REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-16
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 7-14-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADD\6380047T\SHEETSPLAN\040108_RP.DWG
PLOT DATE : 7/13/2016 10:57 AM
PLOT BY : Michael Higgins
PLOT NAME : PLOT SCALE : 1.000000
APPRAISAL PLAT DATE :

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

DOC# 1717852

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.09

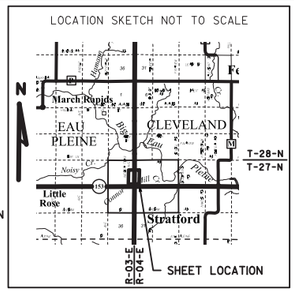
THAT PART OF LOTS 1 & 16, BLOCK 2, DAVELS ADDITION TO THE VILLAGE OF STRATFORD, LOCATED IN PART OF THE SE 1/4 OF THE SE 1/4, SECTION 24, TOWNSHIP 27 NORTH, RANGE 3 EAST; ALSO PART OF LOTS 9 & 16, BLOCK 17 AND LOT 16, BLOCK 18, MAP OF THE VILLAGE OF STRATFORD WIS, LOCATED IN PART OF THE FRACTIONAL SW 1/4, SECTION 19, TOWNSHIP 27 NORTH, RANGE 4 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 20 16
AT 12:24:51 O'CLOCK P M.
In Plat cabinet no. 3 ENV 555A on page
Michael J. Saerlo
REGISTAR

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.09
AMENDMENT NO:___

VILLAGE

S0°02'12"E 1447.07' MON TO 906

FOUND MAG NAIL
Y = 146891.223
X = 164757.890

905 906 S.L. 907 908

W LARCH ST — E LARCH ST

.09 .09

904 909

TLE951 TLE950 TLE949 21 TLE952 TLE953 22 TLE956 TLE954 TLE955

70+00

LOT 16 LOT 15 LOT 14

P.L.

LOT 2 LOT 1

33' 33'

STH 97 SECTION LINE

DAVELS ADDITION TO VILLAGE OF STRATFORD BLOCK 2

IP 2244

LOT 13

FRACT. SW 1/4 OF SE/SE

R=N00°05'08"W

MAP OF THE VILLAGE OF STRATFORD WIS BLOCK 17

LOT 12

IP 2245

68+00

LOT 15 LOT 16

TLE946 19 TLE945 PRW920 TLE944 TLE943 TLE947 TLE948 PRW921

TLE958 TLE957 TLE959 23 TLE960 PRW922 TLE961 TLE962 PRW923

NOTE: BLDG IS 6' +/- PERPENDICULAR TO FEE

LOT 9

W ELM ST — E ELM ST

60' 60'

202

902 903 TLE942 18 TLE941 TLE940 901

910 911 TLE963 TLE964 24 TLE967 TLE965 TLE966

LOT 16

STRATFORD

S.L. 900 R 913 912

66+00

MAP OF THE VILLAGE OF STRATFORD WIS BLOCK 18

N0°04'12"W 703.32' MON TO 900

ESTABLISHED PER TIES
Y = 144255.442
X = 164761.105

SCALE, FEET 0 20 40

GN

BASIS OF RIGHT OF WAY TABLE

ROAD NAME	PROJECT/SURVEY	YEAR
STH 97/W ELM ST/ W LARCH ST	DAVELS ADDITION TO VILLAGE OF STRATFORD	1924
STH 97/E LARCH ST/ E ELM ST	MAP OF THE VILLAGE OF STRATFORD WIS	1891

EXISTING MONUMENTS

POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2244	145264.957	164792.584	1.25" O.D. IRON PIPE
IP 2245	145177.529	164792.671	1.00" O.D. IRON PIPE

COURSE TABLE

COURSE	BEARING	DISTANCE
900–901	S89°54'52"W	33.00'
901–902	N0°04'12"W	42.61'
902–903	S89°55'17"W	17.11'
903–PRW920	N0°04'43"W	60.00'
PRW920–PRW921	N78°14'27"E	17.49'
PRW921–904	N0°04'12"W	321.22'
904–905	N0°04'12"W	60.00'
905–906	S86°39'12"E	33.06'
906–907	S86°39'12"E	0.43'
907–908	S86°39'12"E	32.63'
908–909	S0°04'12"E	60.00'
909–PRW922	S0°04'12"E	315.81'
PRW922–PRW923	S45°04'27"E	7.07'
PRW923–910	S0°04'43"E	60.00'
910–911	S89°55'17"W	5.01'
911–912	S0°04'12"E	42.60'
912–913	S89°54'52"W	32.43'
913–900	S89°54'52"W	0.57'

RW STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
900	66+00.00	–0.57'
901	66+00.00	–33.57'
902	66+42.61	–33.56'
903	66+42.61	–50.67'
904	70+27.37	–33.45'
905	70+87.37	–33.43'
906	70+85.39	–0.43'
907	70+85.37	0.00'
908	70+83.41	32.57'
909	70+23.41	32.55'
910	66+42.60	37.45'
911	66+42.60	32.45'
912	66+00.00	32.43'
913	66+00.00	0.00'
PRW920	67+02.61	–50.66'
PRW921	67+06.15	–33.54'
PRW922	67+07.60	32.46'
PRW923	67+02.60	37.46'

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
TLE940	66+30.00	–33.56'
TLE941	66+30.00	–38.00'
TLE942	66+42.61	–38.00'
TLE943	67+02.61	–56.00'
TLE944	67+04.00	–56.00'
TLE945	67+04.00	–51.00'
TLE946	67+07.00	–36.00'
TLE947	67+19.00	–36.00'
TLE948	67+19.00	–33.53'
TLE949	70+20.00	–33.45'
TLE950	70+20.00	–37.00'
TLE951	70+27.38	–37.00'
TLE952	70+23.44	50.00'
TLE953	70+22.00	50.00'
TLE954	70+22.00	35.00'
TLE955	70+07.00	35.00'
TLE956	70+07.00	32.55'
TLE957	67+21.00	32.47'
TLE958	67+21.00	34.00'
TLE959	67+12.00	34.00'
TLE960	67+05.00	40.00'
TLE961	67+05.00	48.00'
TLE962	67+02.60	48.00'
TLE963	66+42.60	47.00'
TLE964	66+39.00	47.00'
TLE965	66+39.00	35.00'
TLE966	66+32.00	35.00'
TLE967	66+32.00	32.44'

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
18	KARI L SERWE	TLE	---	---	---	0.001
19	STRATFORD STATE BANK	FEE/TLE	0.001	---	0.001	0.001
21	TELSCHOW OIL, INC	TLE	---	---	---	0.001
22	DUANE G BOHMAN	TLE	---	---	---	0.001
23	DEANE A & JOAN E KEDING	FEE/TLE	0.001	---	0.001	0.002
24	BENJAMIN NOVITZKE	TLE	---	---	---	0.002

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	FRONTIER NORTH INC.	RELEASE OF RIGHTS

(202) FRONTIER NORTH INC.
NO EASEMENT OF RECORD – PAR. 19

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING, ANY BUILDINGS WHICH OCCUPY THE TLE WILL NOT BE AFFECTED

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

TIMOTHY G. RUTZEN JR. DATE: 7-13-16
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L. Stella DATE: 7-14-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

6380-04-27-4.09 100

PLOT NAME : PLOT SCALE : 1"=100'
PLOT BY : Michael Higgins
PLOT DATE : 7/13/2016 11:01 AM
PLOT DATE :
FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADD\63800477\SHEETSPLAN\040109_RP.DWG
APPRAISAL PLAT DATE :

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

DOC# 1717853

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.10

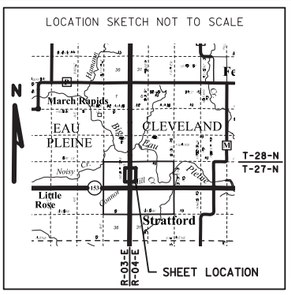
THAT PART OF LOT 12, BLOCK 12 AND LOTS 8 & 12, BLOCK 13, MAP OF THE VILLAGE OF STRATFORD WIS, ALL BEING LOCATED IN PART OF THE FRACTIONAL SW 1/4, SECTION 19, TOWNSHIP 27 NORTH, RANGE 4 EAST, VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 20 16
AT 12:N:S O'CLOCK P M.
In Plat cabinet no. 3 on page 553B
Michael J. Sydow
REGISTAR

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.10
AMENDMENT NO:___

SO°02'12"E 955.05' MON TO 1003

FOUND MAG NAIL
Y = 146891.223
X = 164757.890

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
26	KENNETH D & LORETTA L JUSTMAN	TLE	---	---	---	0.001
27	CHRISTOPHER L MURDAUGH	TLE	---	---	---	0.001
28	CHARLES MADDEN	FEE/TLE	0.002	---	0.002	0.003

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	FRONTIER NORTH INC.	RELEASE OF RIGHTS

202 FRONTIER NORTH INC.
DOC. 1216297 – PAR. 26

VILLAGE OF STRATFORD

LOT 2 CSM 9992 V.41, P.15 DOC. 1121347

LOT 1 CSM 6946 V.26, P.139 DOC. 974305

DAVELS ADDITION TO VILLAGE OF STRATFORD BLOCK 1

LOT 1 LOT 2

MAP OF THE VILLAGE OF STRATFORD WIS BLOCK 12

MAP OF THE VILLAGE OF STRATFORD WIS BLOCK 13

NOTE: BLDG IS 8' +/- PERPENDICULAR TO FEE

1002 1003 S.L. 1004 ℄ 1005 P.L.

LOT 12

TLE1040 PRW1020 28 IP 2279 IP 2233 PRW1021 TLE1041

℄=N00°05'08"W

100' E MAIN ST

74+00

1006 1007 TLE1042 27 TLE1043

NE/SE P.L. IP 2278

STH 97 SECTION LINE

FRACT. SW 1/4

LOT 8 LOT 7 LOT 6

33' 33'

OF

1008 20' PUBLIC ALLEY 1009

LOT 15

P.L. 1/16 LINE IP 2344

1/16 LINE

72+00

LOT 14

P.L.

LOT 2 LOT 1 SE/SE

LOT 13

TLE1046 P.L. 202 TLE1045 TLE1044 26 LOT 12 TLE1047 TLE1048

S.L. 1000 ℄ 1011 1001 FO FO FO 1010

W LARCH ST E LARCH ST

STRATFORD

NO°04'12"W 1188.71' MON TO 1000

ESTABLISHED PER TIES
Y = 144255.442
X = 164761.105

SCALE, FEET 0 20 40

GN

BASIS OF RIGHT OF WAY TABLE

ROAD NAME	PROJECT/SURVEY	YEAR
STH 97/ W LARCH ST	DAVELS ADDITION TO VILLAGE OF STRATFORD	1924
STH 97/E LARCH ST/ E MAIN ST	MAP OF THE VILLAGE OF STRATFORD WIS	1891
STH 97	CSM 6946	1992
STH 97	CSM 9992	1997

EXISTING MONUMENTS

POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2233	145859.925	164852.554	1.25" O.D. IRON PIPE
IP 2344	145264.957	164792.584	1.25" O.D. IRON PIPE
IP 2278	145693.306	164726.342	1.25" O.D. IRON PIPE
IP 2279	145859.930	164725.756	1.25" O.D. IRON PIPE

COURSE TABLE

COURSE	BEARING	DISTANCE
1000–1001	N86°39'12"W	33.06'
1001–1002	N0°04'12"W	489.46'
1002–1003	N89°41'39"E	33.00'
1003–1004	N89°41'39"E	0.30'
1004–1005	N89°41'39"E	32.70'
1005–PRW1020	S0°04'12"E	65.28'
PRW1020–PRW1021	S50°45'52"E	17.42'
PRW1021–1006	S0°18'21"E	100.00'
1006–1007	S89°41'39"W	13.89'
1007–1008	S0°04'12"E	138.55'
1008–1009	S0°04'12"E	20.00'
1009–1010	S0°04'12"E	158.75'
1010–1011	N86°39'12"W	32.63'
1011–1000	N86°39'12"W	0.43'

RW STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
1000	70+85.39	–0.43'
1001	70+87.37	–33.43'
1002	75+76.83	–33.30'
1003	75+76.96	–0.30'
1004	75+76.96	0.00'
1005	75+77.09	32.70'
1006	74+00.77	46.54'
1007	74+00.72	32.65'
1008	72+62.17	32.62'
1009	72+42.17	32.61'
1010	70+83.41	32.57'
1011	70+85.37	0.00'
PRW1020	75+11.81	32.68'
PRW1021	75+00.77	46.16'

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
TLE1040	75+18.27	32.69'
TLE1041	75+00.80	54.01'
TLE1042	74+00.76	42.00'
TLE1043	73+92.00	32.65'
TLE1044	71+02.00	32.57'
TLE1045	71+02.00	33.50'
TLE1046	70+85.50	33.50'
TLE1047	70+85.50	50.00'
TLE1048	70+83.44	50.00'

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.10 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-16
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 7-14-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

101 6380-04-27-4.10

FILE NAME : P:\48XX\4861.DP.14.STH97.MARV\CADD\63800477\SHEETSPLAN\040110_RP_DWG PLOT DATE : 5-26-2016
APPRAISAL PLAT DATE : 5-26-2016 PLOT DATE : 7/13/2016 11:04 AM PLOT BY : Michael Higgins PLOT NAME : PLOT SCALE : 1.000000

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

DOC# 1717854

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.11

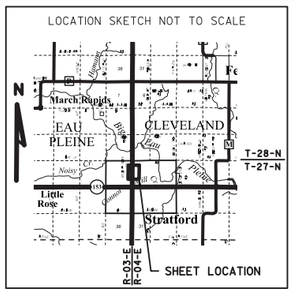
THAT PART OF LOT 1, CSM 2823, LOCATED IN PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 24, TOWNSHIP 27 NORTH, RANGE 3 EAST, ALSO PART OF LOT 9, BLOCK 5 AND LOT 16, BLOCK 12, MAP OF THE VILLAGE OF STRATFORD WIS, LOCATED IN PART OF THE FRACTIONAL SW 1/4, SECTION 19, TOWNSHIP 27 NORTH, RANGE 4 EAST, ALL LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 20 16
AT 12:34:51 O'CLOCK P M.
In Plat cabinet no. 3 on page 549A
Michael J. Sydow
REGISTAR

102

6380-04-27-4.11

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.11
AMENDMENT NO:---

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
29	MARATHON CONTY HOUSING REDEVELOPMENT-RD, LLC	TLE	---	---	---	0.005
31	S EUGENE & PATRICIA DELISIO	TLE	---	---	---	0.003
32	PATRICIA T CARL	TLE	---	---	---	0.003

THE AREA IN THE SCHEDULE OF LANDS AND INTEREST IS ONLY THE AREA OF THE PARCEL ON THIS SHEET.
IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	FRONTIER NORTH INC.	RELEASE OF RIGHTS

202 FRONTIER NORTH INC.
DOC. 649555 – PAR. 29
DOC. 1216296 – PAR. 29

BASIS OF RIGHT OF WAY TABLE		
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	RW PLAT 6380-04-23	1993
STH 97/MYRTLE ST	MAP OF THE VILLAGE OF STRATFORD WIS	1891
STH 97	CSM 9992	1997
STH 97	CSM 2823	1981

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2223	146301.073	164791.264	1.25" O.D. IRON PIPE
IP 2251	146000.892	164791.681	2.375" O.D. IRON PIPE
IP 2280	146129.921	164726.113	0.75" IRON ROD
IP 2353	146039.853	164726.135	0.75" IRON ROD

COURSE TABLE		
COURSE	BEARING	DISTANCE
1100–1101	S89°41'39"W	33.00'
1101–1102	N0°04'12"W	365.43'
1102–1103	N89°54'32"E	33.00'
1103–1104	N89°54'32"E	0.20'
1104–1105	N89°54'32"E	32.80'
1105–1106	S0°04'12"E	60.00'
1106–1107	S0°04'12"E	60.00'
1107–1108	S0°04'12"E	160.18'
1108–1109	S0°04'12"E	20.00'
1109–1110	S0°04'12"E	65.00'
1110–1111	S89°41'39"W	32.70'
1111–1100	S89°41'39"W	0.30'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE1120	78+64.00	–33.22'
TLE1121	78+64.00	–40.00'
TLE1122	78+95.00	–40.00'
TLE1123	78+95.00	–33.21'
TLE1124	78+97.13	32.79'
TLE1125	78+82.27	48.00'
TLE1126	78+22.27	48.00'
TLE1127	78+07.00	32.77'

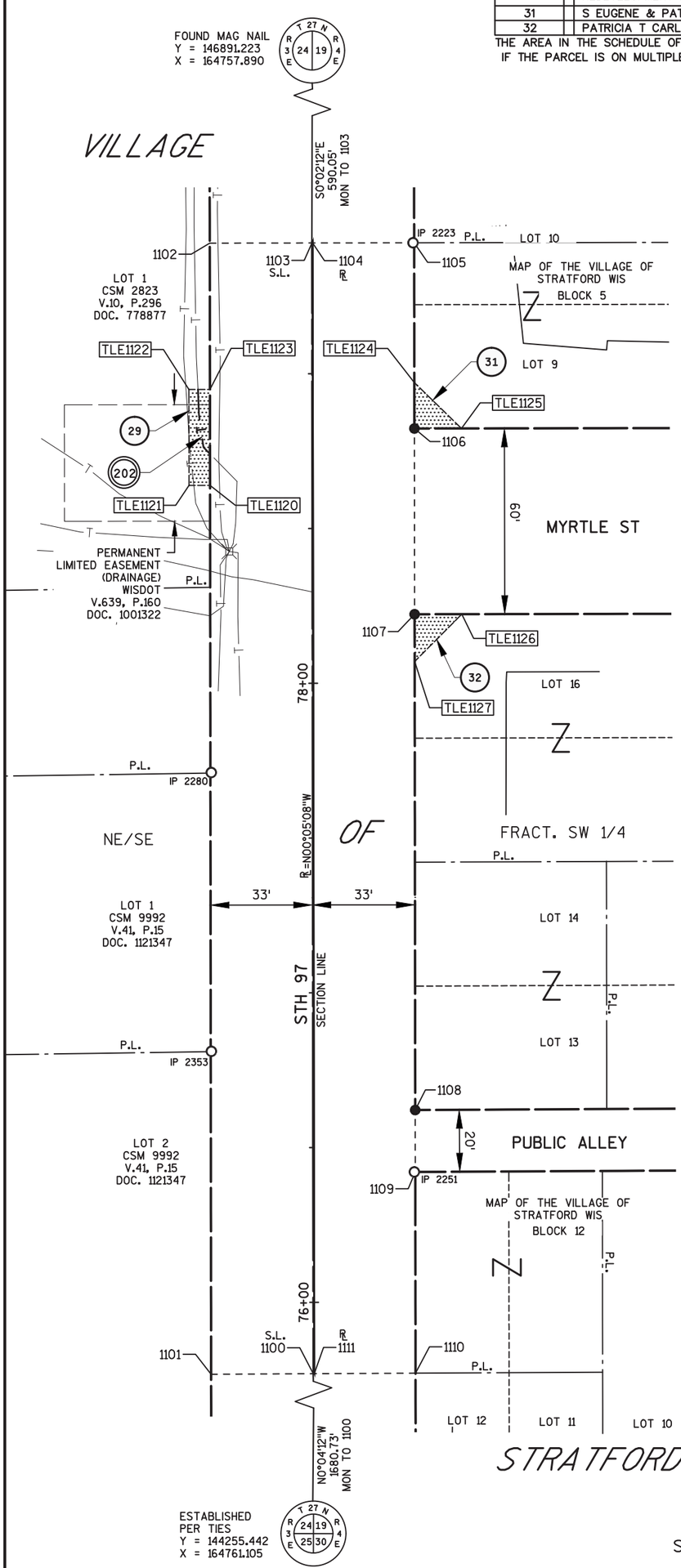
RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
1100	75+76.96	–0.30'
1101	75+76.83	–33.30'
1102	79+42.26	–33.20'
1103	79+42.26	–0.20'
1104	79+42.26	0.00'
*1105	79+42.27	32.80'
1106	78+82.27	32.79'
1107	78+22.27	32.77'
1108	76+62.09	32.73'
*1109	76+42.09	32.72'
1110	75+77.09	32.70'
1111	75+76.96	0.00'

* NO TYPE 2 MONUMENT SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE OR STATION & OFFSETS FOR ULTIMATE R/W

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION



GN

SCALE, FEET 0 20 40

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.11 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 7-13-16
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

(SIGNATURE) DATE: 7-14-2016
(PRINTED NAME) BRENT L. STELLA

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADD\63800477\SHEETSPLAN\040111_RP.DWG PLOT DATE : APPRAISAL PLAT DATE : PLOT DATE : 7/13/2016 11:07 AM PLOT BY : Michael Higgins PLOT NAME : PLOT SCALE : ==========

4

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

DOC# 1717855

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.12

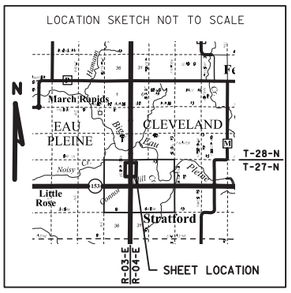
THAT PART OF LOT 1, CSM 2823, PARCEL 1, CSM 9163, LOCATED IN THE NE 1/4 OF SE 1/4, SECTION 24, TOWNSHIP 27 NORTH, RANGE 3 EAST; ALSO LOT 7, BLOCK 4 AND LOT 16, BLOCK 5, MAP OF THE VILLAGE OF STRATFORD WIS, ALL BEING LOCATED IN PART OF THE FRACTIONAL SW 1/4, SECTION 19, TOWNSHIP 27 NORTH, RANGE 4 EAST, VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of July A.D. 20 16
AT 12:24:51 O'CLOCK P. M.
In Plat cabinet no. 3 on page 549
Michael J. Sydow
REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.12
AMENDMENT NO:---

SCHEDULE OF LANDS & INTERESTS REQUIRED

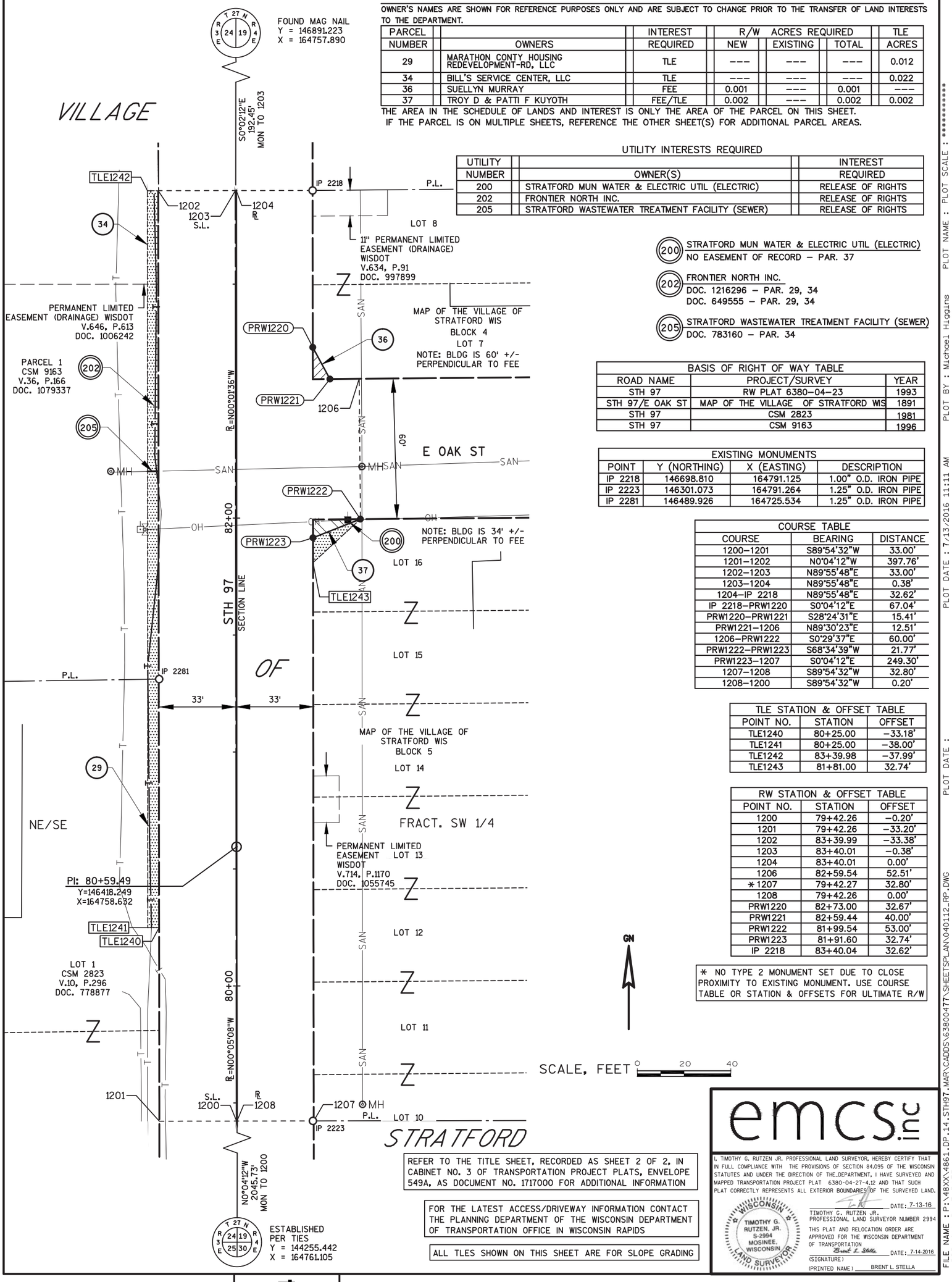
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
29	MARATHON CONTY HOUSING REDEVELOPMENT-RD, LLC	TLE	---	---	---	0.012
34	BILL'S SERVICE CENTER, LLC	TLE	---	---	---	0.022
36	SUELLYN MURRAY	FEE	0.001	---	0.001	---
37	TROY D & PATTI F KUYOTH	FEE/TLE	0.002	---	0.002	0.002

THE AREA IN THE SCHEDULE OF LANDS AND INTEREST IS ONLY THE AREA OF THE PARCEL ON THIS SHEET.
IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	STRATFORD MUN WATER & ELECTRIC UTIL (ELECTRIC)	RELEASE OF RIGHTS
202	FRONTIER NORTH INC.	RELEASE OF RIGHTS
205	STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)	RELEASE OF RIGHTS



200 STRATFORD MUN WATER & ELECTRIC UTIL (ELECTRIC)
NO EASEMENT OF RECORD – PAR. 37

202 FRONTIER NORTH INC.
DOC. 1216296 – PAR. 29, 34
DOC. 649555 – PAR. 29, 34

205 STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)
DOC. 783160 – PAR. 34

BASIS OF RIGHT OF WAY TABLE		
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	RW PLAT 6380-04-23	1993
STH 97/E OAK ST	MAP OF THE VILLAGE OF STRATFORD WIS	1891
STH 97	CSM 2823	1981
STH 97	CSM 9163	1996

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2218	146698.810	164791.125	1.00" O.D. IRON PIPE
IP 2223	146301.073	164791.264	1.25" O.D. IRON PIPE
IP 2281	146489.926	164725.534	1.25" O.D. IRON PIPE

COURSE TABLE		
COURSE	BEARING	DISTANCE
1200–1201	S89°54'32"W	33.00'
1201–1202	N0°04'12"W	397.76'
1202–1203	N89°55'48"E	33.00'
1203–1204	N89°55'48"E	0.38'
1204–IP 2218	N89°55'48"E	32.62'
IP 2218–PRW1220	S0°04'12"E	67.04'
PRW1220–PRW1221	S28°24'31"E	15.41'
PRW1221–1206	N89°30'23"E	12.51'
1206–PRW1222	S0°29'37"E	60.00'
PRW1222–PRW1223	S68°34'39"W	21.77'
PRW1223–1207	S0°04'12"E	249.30'
1207–1208	S89°54'32"W	32.80'
1208–1200	S89°54'32"W	0.20'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE1240	80+25.00	–33.18'
TLE1241	80+25.00	–38.00'
TLE1242	83+39.98	–37.99'
TLE1243	81+81.00	32.74'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
1200	79+42.26	–0.20'
1201	79+42.26	–33.20'
1202	83+39.99	–33.38'
1203	83+40.01	–0.38'
1204	83+40.01	0.00'
1206	82+59.54	52.51'
* 1207	79+42.27	32.80'
1208	79+42.26	0.00'
PRW1220	82+73.00	32.67'
PRW1221	82+59.44	40.00'
PRW1222	81+99.54	53.00'
PRW1223	81+91.60	32.74'
IP 2218	83+40.04	32.62'

* NO TYPE 2 MONUMENT SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE OR STATION & OFFSETS FOR ULTIMATE R/W

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.12 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-16
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 7-14-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

6380-04-27-4.12 103
PLOT NAME : PLOT SCALE : 1.000000
PLOT BY : Michael Higgins
PLOT DATE : 7/13/2016 11:11 AM
PLOT DATE :
FILE NAME : P:\48XX\4861.DP.14.STH97.MARV\CADD\63800477\SHEETSPLAN\040112_RP.DWG
APPRAISAL PLAT DATE :

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

DOC# 1717856

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.13

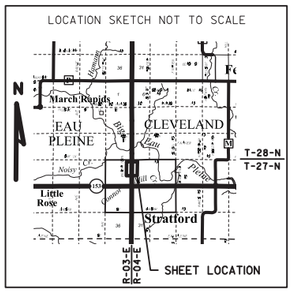
THAT PART OF PARCEL 1, CSM 9163, LOCATED IN THE NE 1/4 OF SE 1/4, SECTION 24, TOWNSHIP 27 NORTH, RANGE 3 EAST; ALSO LOT 1, BLOCK 1, PLAT OF CONNOR'S ADDITION TO STRATFORD, LOCATED IN PART OF THE FRACTIONAL NW 1/4, ALSO, LOT 12, BLOCK 4, MAP OF THE VILLAGE OF STRATFORD WIS, LOCATED IN PART OF THE FRACTIONAL SW 1/4, ALL BEING IN SECTION 19, TOWNSHIP 27 NORTH, RANGE 4 EAST, VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of July A.D. 20 16
AT 12:34:51 O'CLOCK P M.
In Plat cabinet no. 3 on page 554
Michael J. Supanich
REGISTAR

104

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.13
AMENDMENT NO:___

6380-04-27-4.13

FOUND MAG NAIL
SET FROM TIES
Y = 149518.181
X = 164780.167

VILLAGE

45' INGRESS EGRESS EASEMENT DOC.1550518

P.L.

IP 2205

1304 S.L.

1305 R

1306

S0°29'09"W 2401.78' MON TO 1304

LOT 2 CSM 15649 V.71, P.73 DOC. 1556931

IP 2204

IP 2203

OUTLOT 1 OF CSM 8318 V.32, P.86, DOC. 1038069

MH

OUTLOT B OF CSM 9805 V.40, P.28, DOC. 1111649

7' PERMANENT LIMITED EASEMENT (STORM SEWER) VILLAGE OF STRATFORD V.691, P.283 DOC. 1038386

SE/NE

R=N00°28'19"E SECTION LINE

86+00

FRACT. NW 1/4

PLAT OF CONNOR'S ADDITION TO STRATFORD
BLOCK 1
LOT 1

NOTE: BLDG IS 39' +/- PERPENDICULAR TO FEE

TLE1342
PRW1320
203
38
PRW1321
TLE1343
1307

TV

1303

IP 2202

E NORTH ST

49.5'

OF

W NORTH ST

QUARTER LINE

1309

PRW1324
PRW1322
QUARTER LINE
PRW1323
TLE1344
TLE1345

PI: 85+32.97
Y=146891.732
X=164758.413

99

IP 2400

TLE1341

1302

LOT 12

39

TLE1346

NOTE: BLDG IS 45' +/- PERPENDICULAR TO FEE

PRW1325

FOUND MAG NAIL
Y = 146891.223
X = 164757.890

TLE1347
TLE1348

FRACT. SW 1/4

PARCEL 1 CSM 9163 V.36, P.166 DOC. 1079337

7' PERMANENT LIMITED EASEMENT (STORM SEWER) VILLAGE OF STRATFORD V.691, P.1177 DOC. 1038862

STH 97

R=N00°01'36"W SECTION LINE

MAP OF THE VILLAGE OF STRATFORD WIS
BLOCK 4
LOT 11

NE/SE

202

34

84+00

P.L.
LOT 10

IP 2217

33'

33'

LOT 9

TLE1340

S.L.

1301 1300

R

1308

P.L.

IP 2218

STRATFORD

NO°04'12"W 2443.33' MON TO 1300

FOUND MAG NAIL
Y = 144255.442
X = 164761.105

ESTABLISHED PER TIES

GN

SCALE, FEET 0 20 40

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
34	BILL'S SERVICE CENTER, LLC	TLE	---	---	---	0.017
38	ARDELL & PATRICIA A EMON	FEE/TLE	0.002	---	0.002	0.001
39	JEROD P KOPPLIN	FEE/TLE	0.008	---	0.008	0.007

THE AREA IN THE SCHEDULE OF LANDS AND INTEREST IS ONLY THE AREA OF THE PARCEL ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	FRONTIER NORTH INC.	RELEASE OF RIGHTS
203	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
205	STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)	RELEASE OF RIGHTS

(202) FRONTIER NORTH INC.
DOC. 1216296 – PAR. 34
DOC. 649555 – PAR. 34

(203) CHARTER COMMUNICATIONS
NO EASEMENT OF RECORD – PAR. 38

(205) STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)
DOC. 783160 – PAR. 34

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2202	146922.154	164725.488	1.25" O.D. IRON PIPE
IP 2203	147061.768	164726.387	0.875" IRON ROD
IP 2204	147071.875	164726.497	0.875" IRON ROD BENT
IP 2205	147116.644	164726.800	1.00" O.D. IRON PIPE BENT
IP 2217	146765.505	164790.918	1.00" O.D. IRON PIPE
IP 2218	146698.810	164791.125	1.00" O.D. IRON PIPE
IP 2400	146858.802	164724.881	0.75" IRON ROD

BASIS OF RIGHT OF WAY TABLE		
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	RW PLAT 6380-04-23	1993
STH 97/E NORTH ST	MAP OF THE VILLAGE OF STRATFORD WIS	1891
STH 97/E NORTH ST	PLAT OF CONNORS ADDITION TO STRATFORD	1897
STH 97/W NORTH ST	CSM 9163	1996
STH 97	CSM 9805	1997
STH 97	CSM 8318	1994
STH 97	CSM 15649	2009

COURSE TABLE		
COURSE	BEARING	DISTANCE
1300–1301	S89°55'48"W	33.00'
1301–1302	N0°04'12"W	159.63'
1302–1309	N0°12'30"E	33.00'
1309–1303	N0°12'30"E	33.00'
1303–IP 2205	N0°29'09"E	192.29'
IP 2205–1304	S89°01'04"E	33.00'
1304–1305	S89°01'04"E	0.46'
1305–1306	S89°01'04"E	32.54'
1306–PRW1320	S0°29'09"W	160.03'
PRW1320–PRW1321	S43°43'29"E	19.37'
PRW1321–1307	N89°04'20"E	20.11'
1307–PRW1322	S0°55'40"E	49.50'
PRW1322–PRW1323	S0°00'00"E	4.01'
PRW1323–PRW1324	S89°04'20"W	13.60'
PRW1324–PRW1325	S44°54'52"W	30.05'
PRW1325–IP 2218	S0°04'12"E	168.01'
IP 2218–1308	S89°55'48"W	32.62'
1308–1300	S89°55'48"W	0.38'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
1300	83+40.01	–0.38'
1301	83+39.99	–33.38'
*1302	84+99.62	–33.50'
*1303	85+65.33	–33.51'
1304	87+57.32	–0.46'
1305	87+57.32	0.00'
1306	87+57.03	32.54'
1307	85+83.60	66.11'
1308	83+40.01	0.00'
1309	85+32.62	–33.36'
PRW1320	85+97.00	32.50'
PRW1321	85+83.11	46.00'
PRW1322	85+34.12	67.32'
PRW1323	85+29.53	67.32'
PRW1324	85+29.32	53.72'
PRW1325	85+08.05	32.50'
IP 2205	87+57.62	–33.46'
IP 2218	83+40.04	32.62'

* NO TYPE 2 MONUMENT SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE OR STATION & OFFSETS FOR ULTIMATE R/W

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE1340	83+39.98	–38.00'
TLE1341	84+99.64	–38.00'
TLE1342	85+99.87	32.50'
TLE1343	85+83.18	48.73'
TLE1344	85+26.53	67.32'
TLE1345	85+26.38	57.86'
TLE1346	85+05.48	37.00'
TLE1347	84+77.00	37.00'
TLE1348	84+77.00	32.52'

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

EXISTING ACCESS CONTROL WAS ESTABLISHED PER CSM 13068

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

emcs.inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.13 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-16

TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 7-14-2016

(SIGNATURE)

(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

4

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\040113_RP.DWG
PLOT DATE :
PLOT DATE : 7/13/2016 1:42 PM
PLOT BY : Michael Higgins
PLOT NAME : PLOT SCALE : ==========
APPRAISAL PLAT DATE :

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

DOC# 1717857

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.14

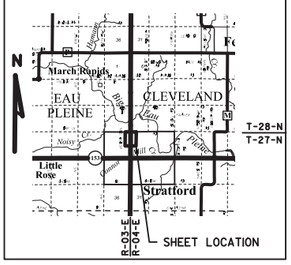
THAT PART OF LOT 1, CSM 13536 AND LOT 2, CSM 13068, LOCATED IN THE SE 1/4 OF NE 1/4, SECTION 24, TOWNSHIP 27 NORTH, RANGE 3 EAST, VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 20
Day of JULY A.D. 20 16
AT 12:24:51 O'CLOCK P M.
In Plat cabinet no. 3 on page 555B
Michael J. Sykora
REGISTAR

105

6380-04-27-4.14

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.14
AMENDMENT NO:---

FOUND MAG NAIL
SET FROM TIES
Y = 149518.181
X = 164780.167

T 27 N R 3 E Sec 13 18 24 19 R 4 E

S0°29'09"W 1970.35' MON TO 1401

VILLAGE OF STRATFORD

P.L.

IP 2207

1401 S.L. — 1402 PR — 1403

TLE1424

7' PERMANENT LIMITED EASEMENT (STORM SEWER) VILLAGE OF STRATFORD V.691, P.285 DOC. 1038388

TLE1423

TLE1422

41

202

LOT 1 CSM 13536 V.59, P.93 DOC. 1386449

SIGN LEASE ON PARCEL V.455, P.50, DOC.514947

20' INGRESS/EGRESS EASEMENT V.461, P.680 DOC.875325

MH — MH

P.L.

IP 2206

R=N00°28'19"E

90+00

43

SE/NE

OF

FRACT. NW 1/4

STH 97 SECTION LINE

LOT 2 CSM 13068 V.57, P.5 DOC. 1348785

205

33' 33'

SIGN LEASE ON PARCEL V.455, P.50, DOC.514947

TLE1421 — TLE1420

7' PERMANENT LIMITED EASEMENT (STORM SEWER) VILLAGE OF STRATFORD V.691, P.283 DOC. 1038386

88+00

STRATFORD

P.L.

IP 2205

S.L. 1400 — PR 1405 — 1404

N0°29'09"E 225.27' MON TO 1400

FOUND MAG NAIL
Y = 146891.223
X = 164757.890

PLAT OF CONNOR'S ADDITION TO STRATFORD
BLOCK 1

LOT 1

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
41	BRETT B & JILL L BANIE	TLE	---	---	---	0.019
43	LORI E LANGTEAU, D/B/A SELMA'S	TLE	---	---	---	0.020

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	STRATFORD MUN WATER & ELECTRIC UTIL (ELECTRIC)	RELEASE OF RIGHTS
201	WIS. GAS LLC D/B/A/ WE ENERGIES (GAS)	RELEASE OF RIGHTS
202	FRONTIER NORTH INC.	RELEASE OF RIGHTS
205	STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)	RELEASE OF RIGHTS

(200) STRATFORD MUN WATER & ELECTRIC UTIL (ELECTRIC)
DOC. 1055525 – PAR. 41, 43

(201) WIS. GAS LLC D/B/A/ WE ENERGIES (GAS)
DOC. 1049794 – PAR. 41, 43

(202) FRONTIER NORTH INC.
DOC. 649558 – PAR. 41, 43

(205) STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)
NO EASEMENT OF RECORD – PAR. 41, 43

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2205	147116.644	164726.800	1.00" O.D. IRON PIPE BENT
IP 2206	147391.336	164729.111	1.00" O.D. IRON PIPE BENT
IP 2207	147548.054	164730.459	1.25" O.D. IRON PIPE

BASIS OF RIGHT OF WAY TABLE		
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	RW PLAT 6380-04-23	1993
STH 97	PLAT OF CONNORS ADDITION TO STRATFORD	1897
STH 97	CSM 13068	2003
STH 97	CSM 13536	2004

COURSE TABLE		
COURSE	BEARING	DISTANCE
1400–IP 2205	N89°01'04"W	33.00'
IP 2205–IP 2207	N0°29'09"E	431.43'
IP 2207–1401	S89°44'44"E	33.00'
1401–1402	S89°44'44"E	0.36'
1402–1403	S89°44'44"E	32.64'
1403–1404	S0°29'09"W	432.26'
1404–1405	N89°01'04"W	32.54'
1405–1400	N89°01'04"W	0.46'

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
1400	87+57.32	-0.46'
1401	91+89.17	-0.36'
1402	91+89.17	0.00'
1403	91+89.29	32.64'
1404	87+57.03	32.54'
1405	87+57.32	0.00'
IP 2205	87+57.62	-33.46'
IP 2207	91+89.04	-33.36'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE1420	88+45.00	-33.44'
TLE1421	88+45.00	-38.00'
TLE1422	91+33.00	-38.00'
TLE1423	91+60.00	-41.00'
TLE1424	91+89.02	-41.00'

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

EXISTING ACCESS CONTROL WAS ESTABLISHED PER CSM 13068

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

GN

SCALE, FEET 0 20 40

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.14 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-16

TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L. Stella DATE: 7-14-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADD\63800477\SHEETSPLAN\040114_RP.DWG
PLOT DATE : 7/13/2016 11:17 AM
PLOT BY : Michael Higgins
PLOT NAME : PLOT SCALE : 1.000000
APPRAISAL PLAT DATE :
PLOT DATE :

4

COMPOSITE DRAWING. ORIGINAL ON FILE AT THE MARATHON COUNTY REGISTER OF DEEDS OFFICE

4

DOC# 1717858

TRANSPORTATION PROJECT PLAT NO: 6380-04-27-4.15

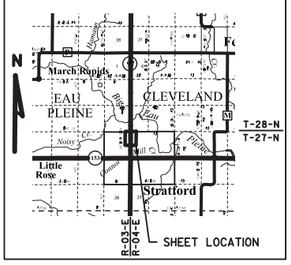
THAT PART OF THE SE 1/4 OF THE NE 1/4, SECTION 24, TOWNSHIP 27 NORTH, RANGE 3 EAST, LOCATED IN THE VILLAGE OF STRATFORD, MARATHON COUNTY, WISCONSIN.

RELOCATION ORDER STH 97 MARATHON COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



REGISTER OF DEEDS
Marathon County, Wis.
Received for Record this 8th
Day of July A.D. 2016
AT 12:24:51 O'CLOCK P.M.
In Plat cabinet no. 3 on page 549A
Michael J. Sydow
REGISTAR

106

6380-04-27-4.15

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6380-04-27-4.15
AMENDMENT NO:---

FOUND MAG NAIL
SET FROM TIES
Y = 149518.181
X = 164780.167

VILLAGE

S0°29'09"W
1970.35'
MON TO 1501

96+00

P.L.

IP 2208

1501
S.L.

1502
PR

1503

33'

33'

R=N00°28'19"E

94+00

OF

SE/NE

FRACT. NW 1/4

TLE1521

TLE1522

42

7' PERMANENT LIMITED EASEMENT (STORM SEWER) VILLAGE OF STRATFORD V.691, P.284, DOC. 1038387

STH 97

SECTION LINE

205

PERMANENT LIMITED EASEMENT (DRAINAGE) WISDOT V.653, P.921 DOC. 1010536

PERMANENT LIMITED EASEMENT (DRAINAGE) WISDOT

202

P.L.

92+00

P.L.

IP 2207

TLE1520

1500
S.L.

1505
PR

1504

STRATFORD

N0°29'09"E
656.70'
MON TO 1500

FOUND MAG NAIL
Y = 146891.223
X = 164757.890

SCALE, FEET 0 20 40

GN

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
42	NORTH RIDGE CHURCH STRATFORD, INC	TLE	---	---	---	0.031

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 2207	147548.054	164730.459	1.25" O.D. IRON PIPE
IP 2208	147876.656	164733.247	1.25" O.D. IRON PIPE

BASIS OF RIGHT OF WAY TABLE		
ROAD NAME	PROJECT/SURVEY	YEAR
STH 97	RW PLAT 6380-04-23	1993

RW STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
1500	91+89.17	-0.36'
1501	95+17.78	-0.28'
1502	95+17.78	0.00'
1503	95+17.91	32.72'
1504	91+89.29	32.64'
1505	91+89.17	0.00'
IP 2207	91+89.04	-33.36'
IP 2208	95+17.66	-33.28'

COURSE TABLE		
COURSE	BEARING	DISTANCE
1500-IP 2207	N89°44'44"W	33.00'
IP 2207-IP 2208	N0°29'09"E	328.61'
IP 2208-1501	S89°44'44"E	33.00'
1501-1502	S89°44'44"E	0.28'
1502-1503	S89°44'44"E	32.72'
1503-1504	S0°29'09"W	328.61'
1504-1505	N89°44'44"W	32.64'
1505-1500	N89°44'44"W	0.36'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE1520	91+89.02	-41.00'
TLE1521	93+68.00	-41.00'
TLE1522	93+68.00	-33.31'

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	FRONTIER NORTH INC.	RELEASE OF RIGHTS
205	STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)	RELEASE OF RIGHTS

(202) FRONTIER NORTH INC.
DOC. 649558 - PAR. 42

(205) STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)
NO EASEMENT OF RECORD - PAR. 42

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET NO. 3 OF TRANSPORTATION PROJECT PLATS, ENVELOPE 549A, AS DOCUMENT NO. 1717000 FOR ADDITIONAL INFORMATION

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6380-04-27-4.15 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 7-13-16
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L. Stella DATE: 7-14-2016
(SIGNATURE)
(PRINTED NAME) BRENT L. STELLA

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADD\63800477\SHEETSPLAN\040115_RP.DWG PLOT DATE : PLOT DATE : 7/13/2016 11:20 AM PLOT BY : Michael Higgins PLOT NAME : PLOT SCALE : ********** APPRAISAL PLAT DATE :

4

N

SUNSET RIDGE DR

BEGIN PROJECT
STA 30+95.00
BEGIN MILL & HMA OVERLAY
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

CHARTER (COMMUNICATIONS)

VILLAGE OF STRATFORD (WATER)

FRONTIER (COMMUNICATIONS)

R/W

ASPH PE

ASPH PE

ASPH PE

ASPH CE

5

5

27+00 28+00 N0° 34' 01"E 29+00 STH 97 30+00 31+00 32+00

PI: 32+00.00
Y: 141558.90
X: 164733.79

CAUTION

WE ENERGIES (GAS)

VILLAGE OF STRATFORD (ELECTRIC), FRONTIER (COMMUNICATIONS), & CHARTER (COMMUNICATIONS)

STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)

PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 107	E

NOTE
SEE PAVING DETAILS FOR CURB RAMP UPGRADES.

LEGEND
SLOPE INTERCEPT
DELINEATED WETLAND BOUNDARY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
606	33+03,RT	NW TAG BOLT ON HYDRANT	1280.37

N

LANDMARK REFERENCE MONUMENTS
T 27 N
R 3 E — 25 30 — R 4 E

VILLAGE OF STRATFORD (ELECTRIC) & CHARTER (COMMUNICATIONS)

STA 32+99
CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH REQ'D
2 - APRON ENDWALLS FOR CULVERT PIPE 24-INCH REQ'D
SKEW 46°, LHF
2 - MARKERS CULVERT END REQ'D
(SEE CONSTRUCTION DETAIL)

FRONTIER (COMMUNICATIONS)

VILLAGE OF STRATFORD (WATER)

PI: 32+00.00
Y: 141558.90
X: 164733.79

ASPHALTIC SURFACE PATCHING
(SEE CONSTRUCTION DETAIL)

CAUTION

STH 97

NO° 35' 48"E

32+00 33+00 34+00 35+00 36+00 37+00 38+00

ASPH PE

ASPH CE

MULTI-USE TRAIL

WE ENERGIES (GAS)

VILLAGE OF STRATFORD (ELECTRIC), FRONTIER (COMMUNICATIONS) & CHARTER (COMMUNICATIONS)

STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)

REMOVING MANHOLES
SEALING PIPES
REMOVING STORM SEWER 24-INCH
(SEE CONSTRUCTION DETAILS)

SOUTH ST

E HEMLOCK ST

CONTROL POINT 507
Y = 141609.58
X = 164851.05
0.75" X 24" IRON REBAR
W/BLUE EMCS CONTROL CAP

BM 606

R/W

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 108	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050401-PN(10).DWG
LAYOUT NAME - 050401-PN
PLOT DATE : 12/1/2017 7:24 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:40_XREF

NOTE
SEE PAVING DETAILS FOR CURB RAMP UPGRADES.

N

FRONTIER
(COMMUNICATIONS)

R/W

OH

OH

OH

OH

R/W

5

5

38+00

39+00

40+00

STH 97

41+00

N0° 35' 48"E

42+00

43+00

44+00

SS

SS

MH

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

OH

OH

OH

OH

C

CAUTION

R/W

ASPH
CE

VILLAGE OF STRATFORD
(ELECTRIC),
FRONTIER
(COMMUNICATIONS) &
CHARTER
(COMMUNICATIONS)

STRATFORD WASTEWATER
TREATMENT FACILITY
(SEWER)

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PLAN	SHEET 109	E

NOTES
SEE PAVING DETAILS FOR CURB RAMP UPGRADES.

SEE PAVING DETAILS FOR SIDEWALK AND DRIVEWAY REPLACEMENTS.

LEGEND
- SLOPE INTERCEPT
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
605	49+50,LT	BRASS CAP ON SW WING WALL B-37-112-67	1253.55

N

STA 49+21 - STA 49+51, LT
REMOVING GUARDRAIL

STA 49+01 - STA 50+00, LT
STEEL PLATE BEAM GUARD SHORT RADIUS
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
STEEL PLATE BEAM GUARD, CLASS A, OVER LOW FILL CULVERTS
(SEE CONSTRUCTION DETAILS AND STANDARD DETAIL DRAWINGS)

SHORT RADIUS:
8' RADIUS AT STA 49+10.4, 30.52' LT
5 CRT POSTS

CONNOR MILL CREEK

VILLAGE OF STRATFORD (ELECTRIC)

RECREATIONAL TRAIL

STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)

VILLAGE OF STRATFORD (WATER)

FRONTIER (COMMUNICATIONS)

R/W

PROPOSED R/W

TLE

BASE AGG TRAIL

+02
BEGIN BARRIER SYSTEM GRADING, SHAPING, FINISHING
55.47' LT

BASE AGG PE

+48

+73

BM 605

STRUCTURE B-37-0112 (TO REMAIN)

REMOVE CURB & GUTTER

44+00 45+00 46+00 STH 97 47+00 48+00 N0° 35' 48"E 49+00 50+00

ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAILS)

REMOVE CONCRETE SIDEWALK

CAUTION

ASPH CE

WE ENERGIES (GAS)

VILLAGE OF STRATFORD (ELECTRIC), FRONTIER (COMMUNICATIONS), & CHARTER (COMMUNICATIONS)

GRASS TRAIL

STA 47+75
REMOVING SMALL PIPE CULVERTS
CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH REQ'D
2-APRON ENDWALLS FOR CULVERT PIPE 36-INCH REQ'D
SKEW 44°, RHF
2-MARKERS CULVERT END REQ'D
(SEE CONSTRUCTION DETAILS)

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 110	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050401-PN(10).DWG
LAYOUT NAME - 050403-PN
PLOT DATE : 3/12/2018 2:02 PM PLOT BY : STEPHANIE CHRISTENSEN PLOT NAME : PLOT SCALE : 1:40_XREF

NOTE
SEE PAVING DETAILS FOR CURB RAMP UPGRADES.

LEGEND
SLOPE INTERCEPT
DELINEATED WETLAND BOUNDARY

STA 49+70 - STA 50+09, LT
REMOVING GUARDRAIL

STA 50+00 - STA 50+60, LT
STEEL PLATE BEAM GUARD, CLASS A, OVER LOW FILL CULVERTS
STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
(SEE CONSTRUCTION DETAILS AND STANDARD DETAIL DRAWINGS)

VILLAGE OF STRATFORD
(ELECTRIC)

+36
END BARRIER SYSTEM
GRADING, SHAPING, FINISHING

TLE

PROPOSED R/W

R/W

+10

+35

+60

KANN ST

STRATFORD WASTEWATER TREATMENT FACILITY
(SEWER)

FRONTIER
(COMMUNICATIONS)

W MEADOW ST

5

5

50+00 51+00 52+00 53+00 54+00 55+00 56+00

N0° 35' 48"E

STH 97

CAUTION

WE ENERGIES
(GAS)

S 3RD AVE

VILLAGE OF STRATFORD
(ELECTRIC) &
CHARTER
(COMMUNICATIONS)

CHARTER
(COMMUNICATIONS)

VILLAGE OF STRATFORD
(WATER)

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PLAN	SHEET 111	E

NOTES
SEE PAVING DETAILS FOR CURB RAMP UPGRADES.

SEE TRAFFIC SIGNAL DETAILS FOR STH 97/STH 153 LOOP AND SIGNAL IMPROVEMENTS.

(L) LOOP DETECTOR REPLACEMENT AREA
REMOVE PAVEMENT AND REMOVE CURB & GUTTER, REPLACE WITH 5" ASPHALTIC SURFACE PATCHING OVER 15" BASE AGGREGATE DENSE 1 1/4-INCH, AND CONCRETE CURB & GUTTER TYPE D.

N

STH 153

STH 97

PI: 58+96.41
Y: 144255.16
X: 164761.86

PI: 10+00.00
Y: 144255.16
X: 164761.86

9+00'S'

10+00'S'

11+00'S'

56+00 | 57+00 | N0° 35' 48"E | 58+00 | 59+00 | 60+00 | N0° 05' 08"W | 61+00 | 62+00

BM 604

VILLAGE OF STRATFORD (ELECTRIC), CHARTER (COMMUNICATION), & FRONTIER (COMMUNICATIONS)

VILLAGE OF STRATFORD (ELECTRIC)

FRONTIER (COMMUNICATIONS)

PROPOSED R/W

TLE

R/W

CAUTION

WE ENERGIES (GAS)

CHARTER (COMMUNICATIONS)

VILLAGE OF STRATFORD (ELECTRIC) & CHARTER (COMMUNICATIONS)

REMOVING PAVEMENT CONCRETE DRIVEWAY 6-INCH (REPLACE AT EXISTING SLOPE)

VILLAGE OF STRATFORD (LIGHTING)

ABANDON EXISTING LOOP DETECTOR

ABANDON EXISTING LOOP DETECTOR

VILLAGE OF STRATFORD (WATER)

REMOVING PAVEMENT CONCRETE DRIVEWAY 6-INCH (REPLACE AT EXISTING SLOPE)

REMOVING CONCRETE SIDEWALK CONCRETE SIDEWALK 5-INCH

RESIDUAL GROUNDWATER AND SOIL CONTAMINATION NO EXCAVATION BEYOND 4-FEET IN DEPTH (SEE SPECIAL PROVISIONS)

CANOPY

PUBLIC ALLEY

CONTROL POINT 500
Y = 144340.21
X = 164786.69
0.75" X 24" IRON REBAR
W/BLUE EMCS CONTROL CAP

STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)

T.27N. R.3E. R.4E. T.27N. 24 19 25 30

LANDMARK REFERENCE MONUMENTS

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
604	58+56,LT	CHISELED SQUARE ON WISDOT CONTROL CABINET PAD	1264.01

PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 112 E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050401-PN(10).DWG
LAYOUT NAME - 050405-PN
PLOT DATE : 12/1/2017 7:24 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:40_XREF

NOTE
SEE PAVING DETAILS FOR CURB RAMP UPGRADES.

N

W WALNUT ST

E WALNUT ST

W ELM ST

E ELM ST

STH 97

N0° 05' 08"W

62+00 63+00 64+00 65+00 66+00 67+00 68+00

PROPOSED R/W

TLE

R/W

CAUTION

VILLAGE OF STRATFORD
(LIGHTING)

FRONTIER
(COMMUNICATIONS)

STRATFORD WASTEWATER
TREATMENT FACILITY
(SEWER)

VILLAGE OF STRATFORD
(WATER)

WE ENERGIES
(GAS)

5

5

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 113	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050401-PN(10).DWG
LAYOUT NAME - 050406-PN

PLOT DATE : 1/25/2018 3:36 PM PLOT BY : STEPHANIE CHRISTENSEN PLOT NAME : PLOT SCALE : 1:40_XREF

NOTE
SEE PAVING DETAILS FOR CURB RAMP UPGRADES.

N

W LARCH ST

E LARCH ST

PUBLIC ALLEY

PUBLIC ALLEY

PUBLIC ALLEY

STH 97

N0° 05' 08"W

RESIDUAL SOIL CONTAMINATION
(SEE SPECIAL PROVISIONS)

VILLAGE OF STRATFORD
(ELECTRIC)

FRONTIER
(COMMUNICATIONS)

VILLAGE OF STRATFORD
(LIGHTING)

VILLAGE OF STRATFORD
(WATER)

STRATFORD WASTEWATER
TREATMENT FACILITY
(SEWER)

CAUTION

CAUTION

R/W

TLE

68+00 69+00 70+00 71+00 72+00 73+00 74+00

5 5

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PLAN	SHEET 114	E

NOTE
SEE PAVING DETAILS FOR CURB RAMP UPGRADES.

N

FRONTIER (COMMUNICATIONS)
VILLAGE OF STRATFORD (LIGHTING)
STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)
VILLAGE OF STRATFORD (ELECTRIC) CHARTER (COMMUNICATIONS)
CHARTER (COMMUNICATIONS)
WE ENERGIES (GAS)
TLE
R/W
CAUTION

74+00 | 75+00 | 76+00 | N0° 05' 08"W | 77+00 | STH 97 | 78+00 | 79+00 | 80+00

2-INCH MILL DEPTH ← → 3.5-INCH MILL DEPTH

VILLAGE OF STRATFORD (WATER)
PROPOSED R/W
MAIN ST
PUBLIC ALLEY
MYRTLE ST
PUBLIC ALLEY
PUBLIC ALLEY

PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 115 E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050401-PN(10).DWG
LAYOUT NAME - 050408-PN
PLOT DATE : 12/1/2017 7:25 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:40_XREF

NOTE
SEE PAVING DETAILS FOR CURB RAMP AND SIDEWALK UPGRADES.

N

R/W

WISCONSIN PUBLIC SERVICE (ELECTRIC) & VILLAGE OF STRATFORD (ELECTRIC)

LANDMARK REFERENCE MONUMENTS

T 27 N
R 3 E | 24 | 19 | R 4 E

W NORTH ST

SLOPE INTERCEPT

VILLAGE OF STRATFORD (LIGHTING)

VILLAGE OF STRATFORD (WATER)

VILLAGE OF STRATFORD (ELECTRIC) & CHARTER (COMMUNICATIONS)

STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)

FRONTIER (COMMUNICATIONS)

PI: 80+59.49
Y: 146418.25
X: 164758.63

PI: 85+32.97
Y: 146891.73
X: 164758.41

TLE

R/W

+30

+92

+73

80+00 | 81+00 | 82+00 | NO° 01' 36"W | 83+00 | STH 97 | 84+00 | 85+00 | 86+00

CAUTION

WE ENERGIES (GAS)

PROPOSED R/W

OAK ST

E NORTH ST

VILLAGE OF STRATFORD (ELECTRIC), CHARTER (COMMUNICATIONS), & FRONTIER (COMMUNICATIONS)

CHARTER (COMMUNICATIONS)

PUBLIC ALLEY

PUBLIC ALLEY

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 116 E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050401-PN(10).DWG
LAYOUT NAME - 050409-PN

PLOT DATE : 12/1/2017 7:25 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:40_XREF

NOTE
SEE PAVING DETAILS FOR SIDEWALK UPGRADES.

N

VILLAGE OF STRATFORD (WATER)
WE ENERGIES (GAS)
FRONTIER (COMMUNICATIONS)
STRATFORD WASTEWATER TREATMENT FACILITY (SEWER)
SLOPE INTERCEPT
WISCONSIN PUBLIC SERVICE (ELECTRIC)
VILLAGE OF STRATFORD (LIGHTING)
TLE
R/W

86+00 87+00 88+00 STH 97 89+00 N0° 28' 19"E 90+00 91+00 92+00

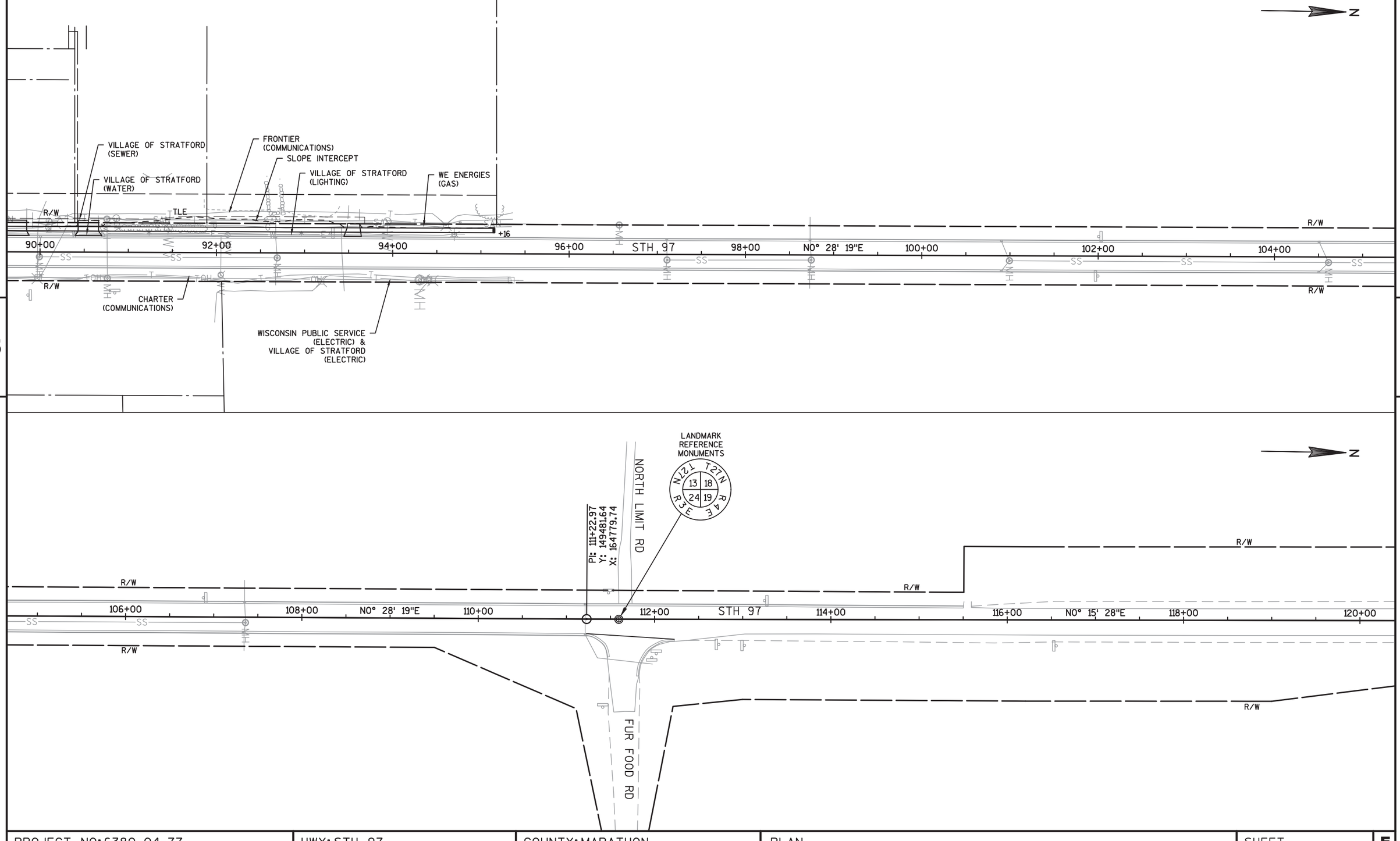
TLE
PROPOSED R/W
CHARTER (COMMUNICATIONS)
R/W
WISCONSIN PUBLIC SERVICE (ELECTRIC) & VILLAGE OF STRATFORD (ELECTRIC)

5 5

PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 117	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050401-PN(10).DWG
LAYOUT NAME - 050410-PN
PLOT DATE : 12/1/2017 7:25 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:40_XREF

NOTE
SEE PAVING DETAILS FOR SIDEWALK UPGRADES.



PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 118	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050411-PN(18).DWG
LAYOUT NAME - 0504(07)-PN
PLOT DATE : 12/1/2017 7:26 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
600	132+81,RT	ALUMINUM DISK SE WING WALL STR B-37-248-95	1188.67
601	130+29,RT	RAILROAD SPIKE SET IN PPOLE 2704 18L17	1174.69

STA 131+85 - STA 132+59, LT
SALVAGE RAIL

STA 131+17 - STA 132+59, LT
MGS GUARDRAIL 3
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

PI: 132+24.70
Y: 151583.34
X: 164789.20

EQUITY ST

FRONTIER (COMMUNICATIONS)

+58 BEGIN BARRIER SYSTEM GRADING, SHAPING, FINISHING

ASPH CE

+17 +42 +67 +59

120+00 122+00 124+00 N0° 15' 28"E 126+00 STH 97 128+00 130+00 132+00 N0° 09' 55"E 134+00

+89 +14 +39 +80 BM 600

ASPH PE

BASE AGG PE

B-37-0248 POLYMER OVERLAY (SEE STRUCTURE PLANS)

CHARTER (COMMUNICATIONS)

WISCONSIN PUBLIC SERVICE (ELECTRIC)

BM 601

+41 BEGIN BARRIER SYSTEM GRADING, SHAPING, FINISHING

CONTROL POINT 501
Y = 151473.39
X = 164824.57
0.75" X 24" IRON REBAR
W/BLUE EMCS CONTROL CAP

STA 132+09 - STA 132+80, RT
SALVAGE RAIL

STA 130+89 - STA 132+80, RT
MGS GUARDRAIL 3
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

BIG EAU PLEINE RIVER

NOTES
SEE CONSTRUCTION DETAILS FOR SHOULDER PAVING THROUGH GUARDRAIL.

PLACE INLET PROTECTION TYPE D AT B-37-0248.

LEGEND
- SLOPE INTERCEPT
- DELINEATED WETLAND BOUNDARY

STA 136+11 - STA 136+83, LT
SALVAGE RAIL

STA 136+11 - STA 138+04, LT
MGS GUARDRAIL 3
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

FRONTIER (COMMUNICATIONS)

USGS MONITORING STATION (DO NOT DISTURB)

PI: 136+99.70
Y: 152058.34
X: 164790.57

+11 +54 +78 +04 +11 END BARRIER SYSTEM GRADING, SHAPING, FINISHING

ASPH PE

136+00 N0° 09' 55"E 138+00 140+00 N0° 09' 08"E 142+00 STH 97 144+00 146+00 148+00 150+00

B-37-0248

+32 +37 +62 +87 +80 END BARRIER SYSTEM GRADING, SHAPING, FINISHING

WISCONSIN PUBLIC SERVICE (ELECTRIC) & CHARTER (COMMUNICATIONS)

DELINEATED WETLAND BOUNDARY

STA 136+32 - STA 137+05, RT
SALVAGE RAIL

STA 136+32 - STA 137+87, RT
MGS GUARDRAIL 3
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

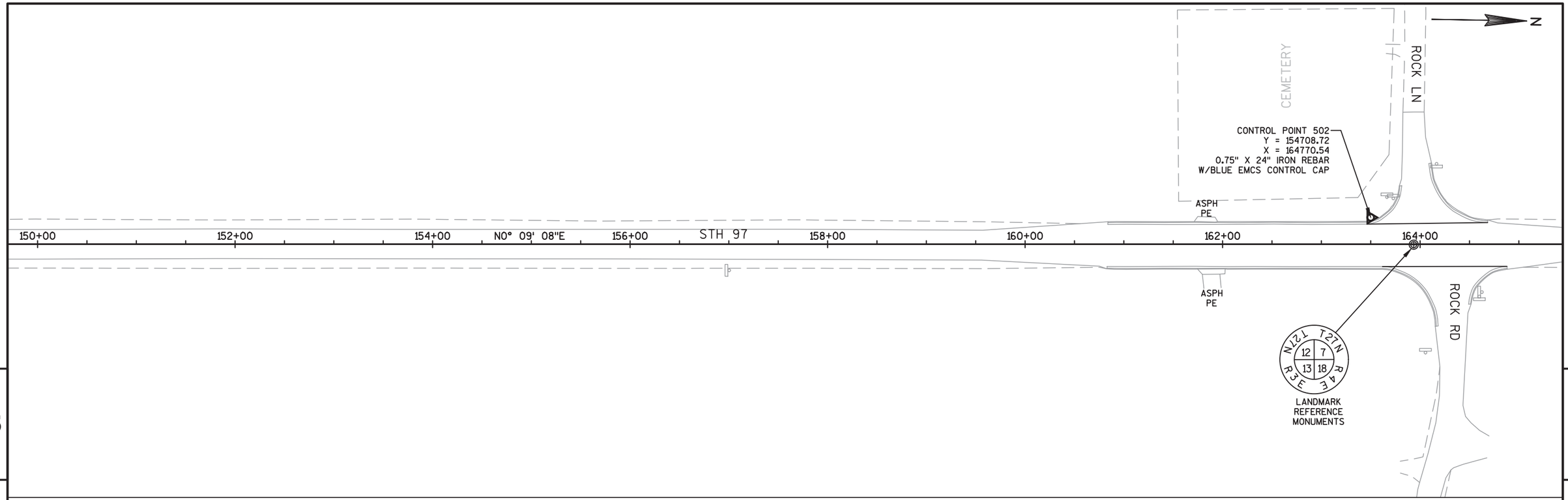
LANDMARK REFERENCE MONUMENTS
T 27 N, R 3 E, 13, 18, R 4 E

BIG EAU PLEINE RIVER

NOTES
SEE CONSTRUCTION DETAILS FOR SHOULDER PAVING THROUGH GUARDRAIL.

PLACE INLET PROTECTION TYPE D AT B-37-0248.

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 119	E



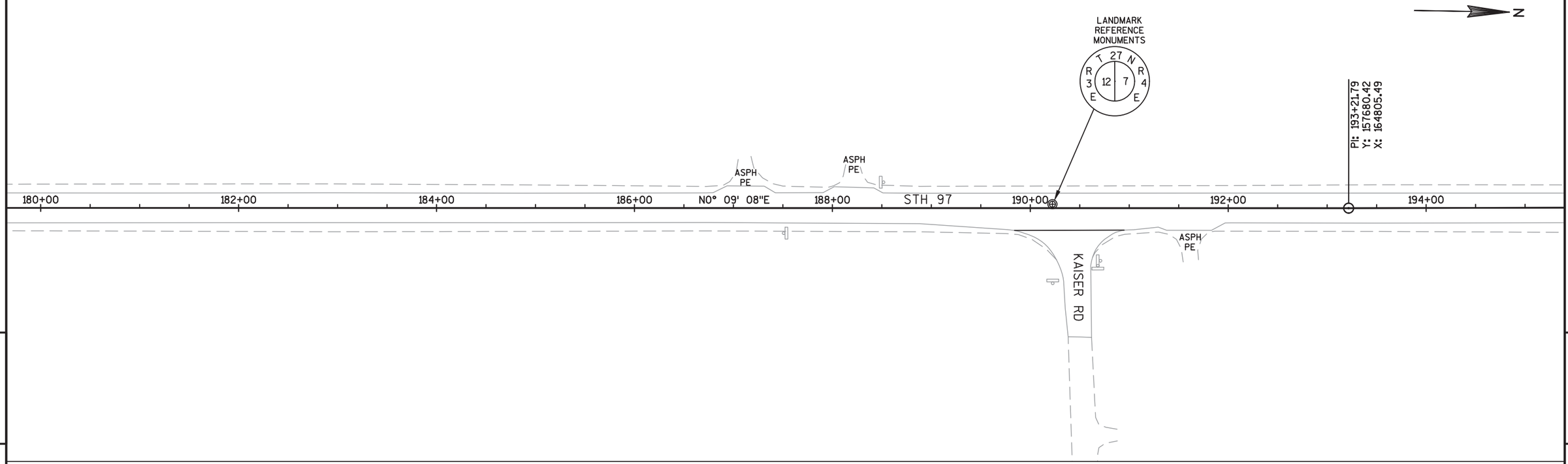
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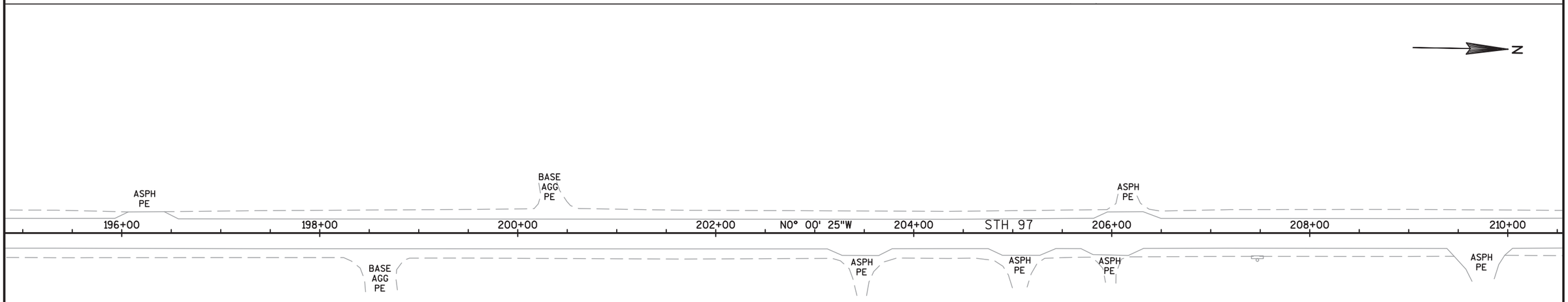
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 120	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050411-PN(18).DWG
LAYOUT NAME - 0504(09)-PN

PLOT DATE : 12/1/2017 7:26 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

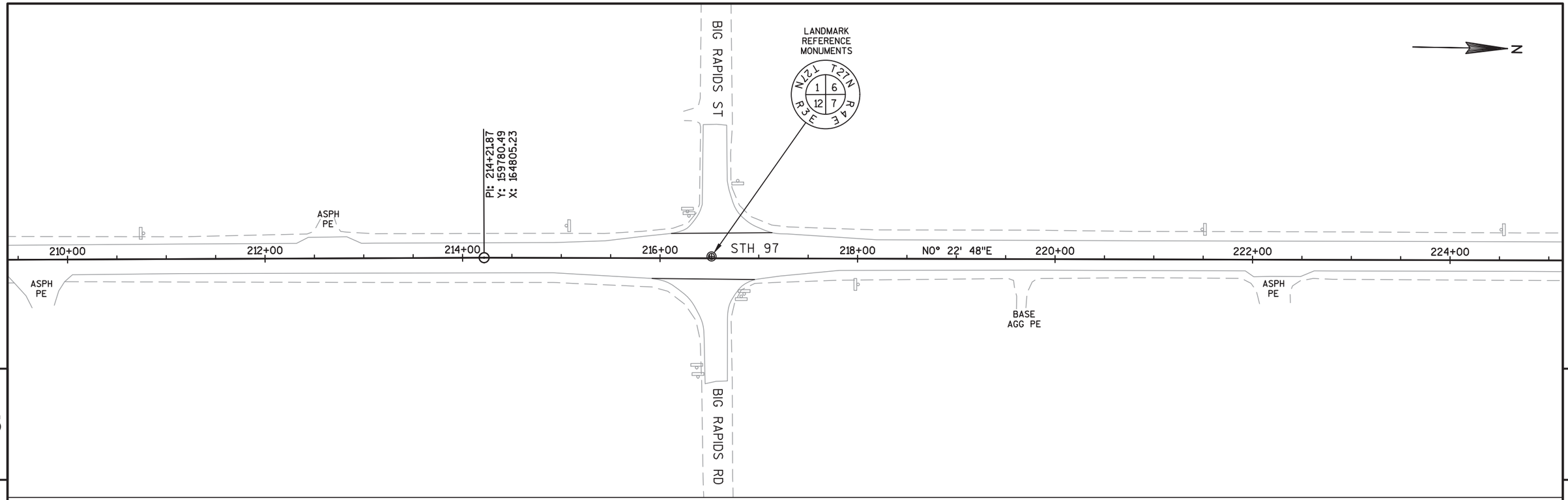




PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 121	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050411-PN(18).DWG
LAYOUT NAME - 0504(11)-PN

PLOT DATE : 12/1/2017 7:26 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF



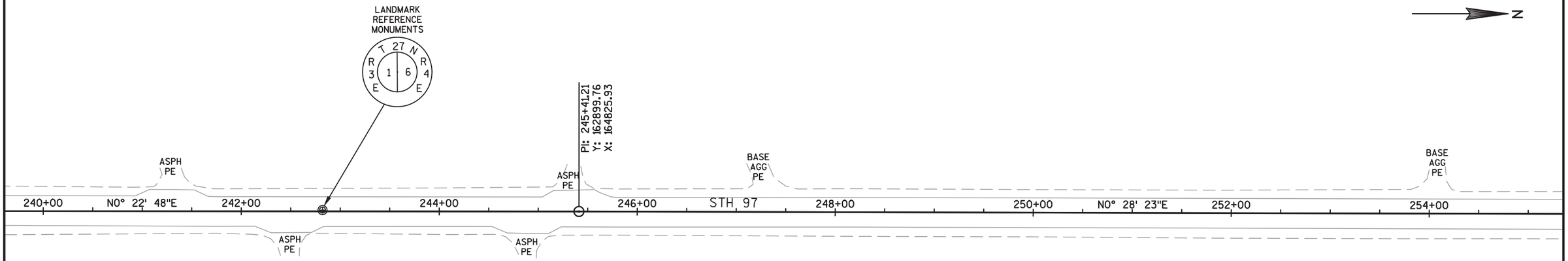
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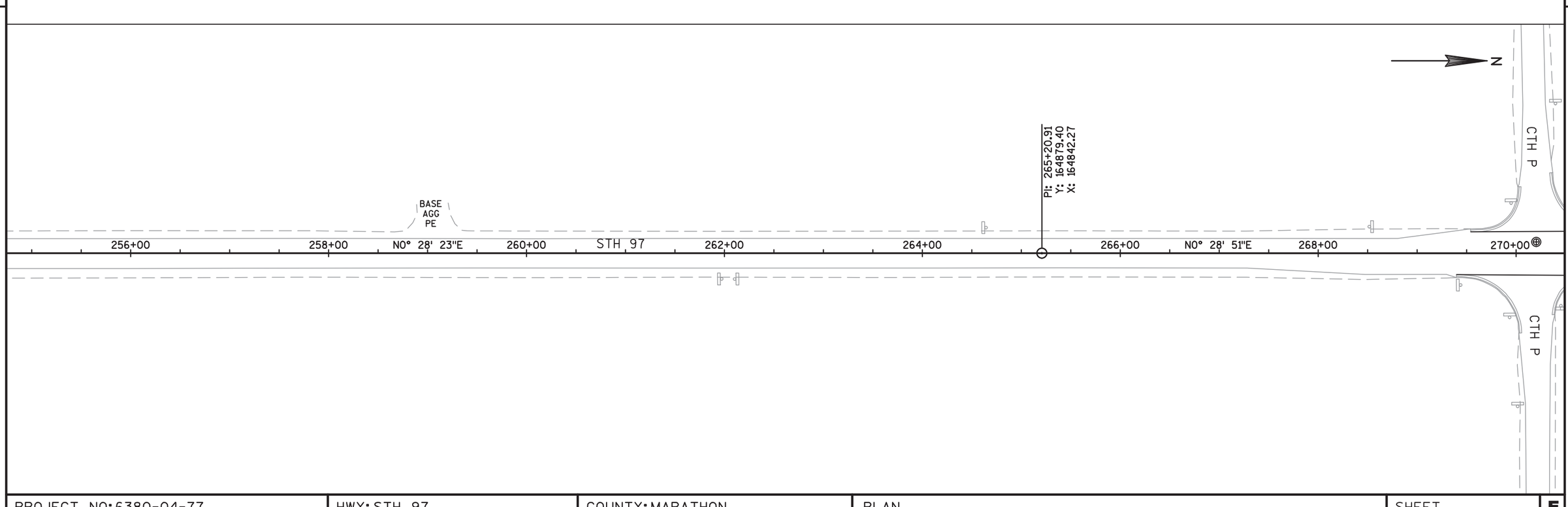
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 122	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050411-PN(18).DWG
LAYOUT NAME - 0504(13)-PN

PLOT DATE : 12/1/2017 7:27 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF



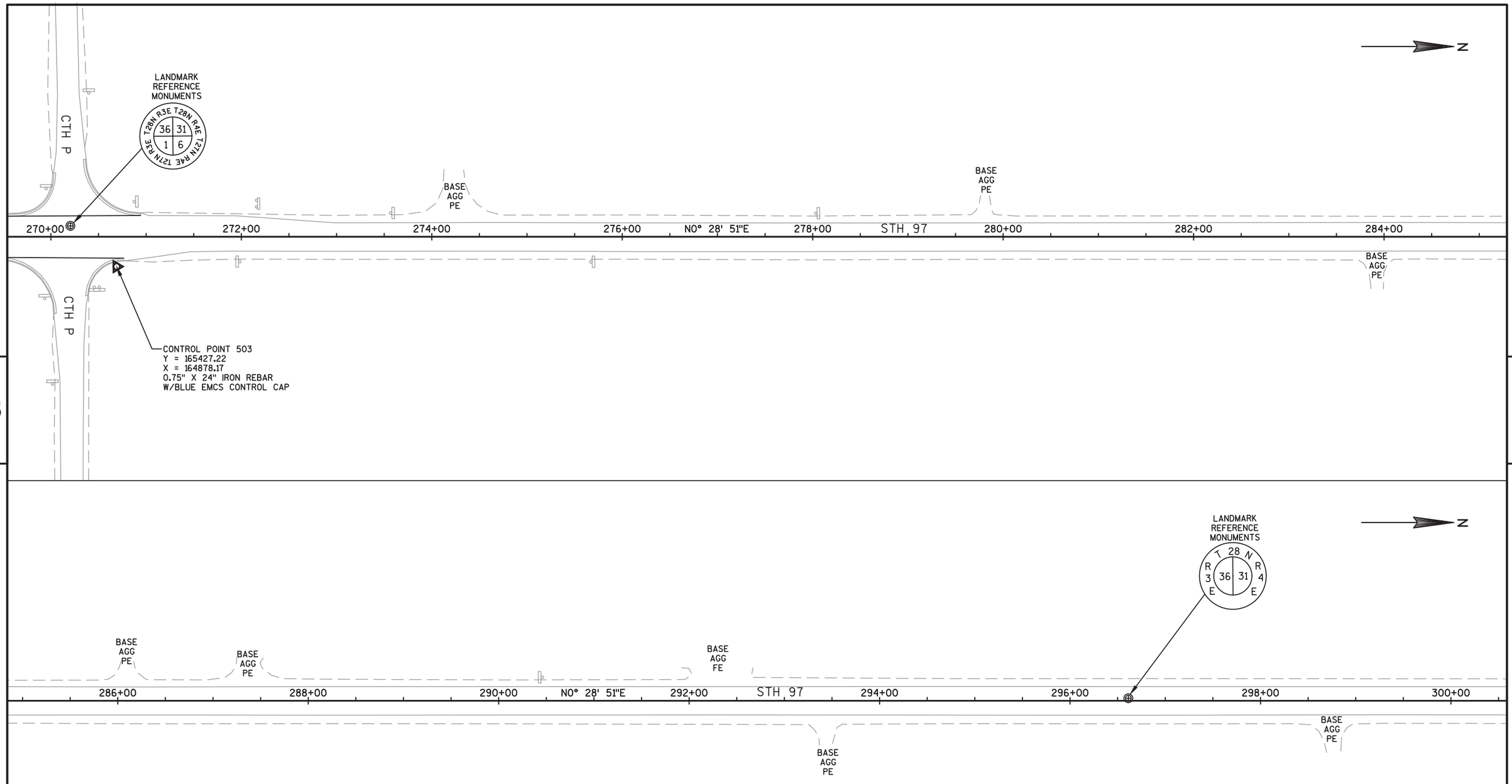


PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 123 E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050411-PN(18).DWG
LAYOUT NAME - 0504(15)-PN

PLOT DATE : 12/1/2017 7:27 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44



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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 124	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050411-PN(18).DWG
LAYOUT NAME - 0504(17)-PN

PLOT DATE : 12/1/2017 7:27 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

N

BASE AGG PE

BASE AGG FE

300+00 302+00 304+00 306+00 STH 97 308+00 N0° 28' 51"E 310+00 312+00 314+00

BASE AGG PE

5

5

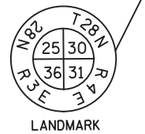
N

BLACKBERRY RD

PI: 317+96.88
Y: 170155.19
X: 164886.55

316+00 N0° 28' 51"E 318+00 320+00 STH 97 322+00 324+00 N0° 28' 46"E 326+00 328+00 330+00

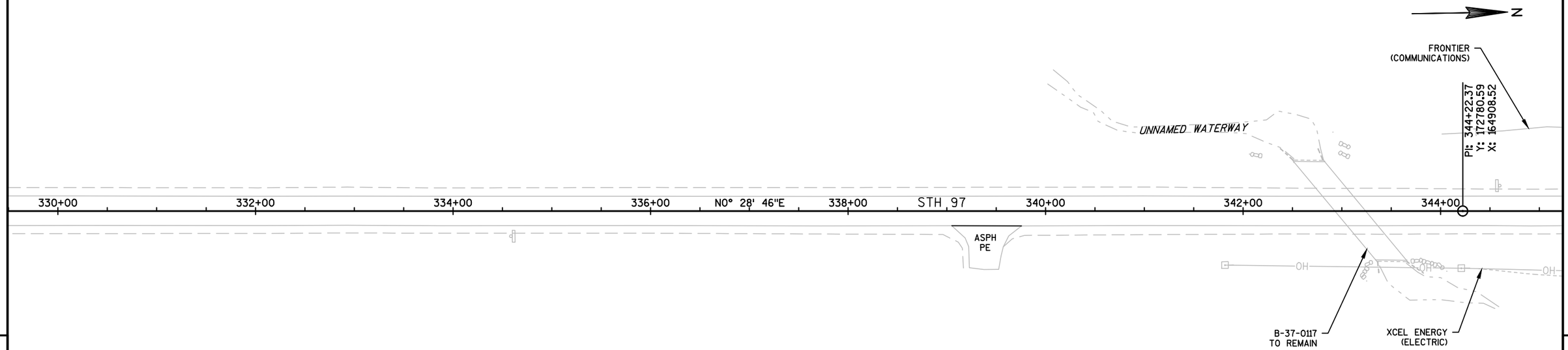
BASE AGG PE



LANDMARK REFERENCE MONUMENTS

BLACKBERRY ST

PROJECT NO:6380-04-77	HWY:STH 97	COUNTY:MARATHON	PLAN	SHEET 125	E



5

5

LEGEND

SLOPE INTERCEPT

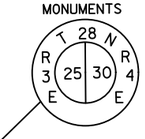
DELINEATED WETLAND BOUNDARY

STA 348+02 - STA 349+60, LT & RT
SALVAGE RAIL

STA 348+58
REMOVING OLD STRUCTURE (C-37-9018)
72-INCH STEEL CULVERT PIPE WITH
CONCRETE ENDWALLS
147' OVERALL LENGTH, 6' OVERALL WIDTH

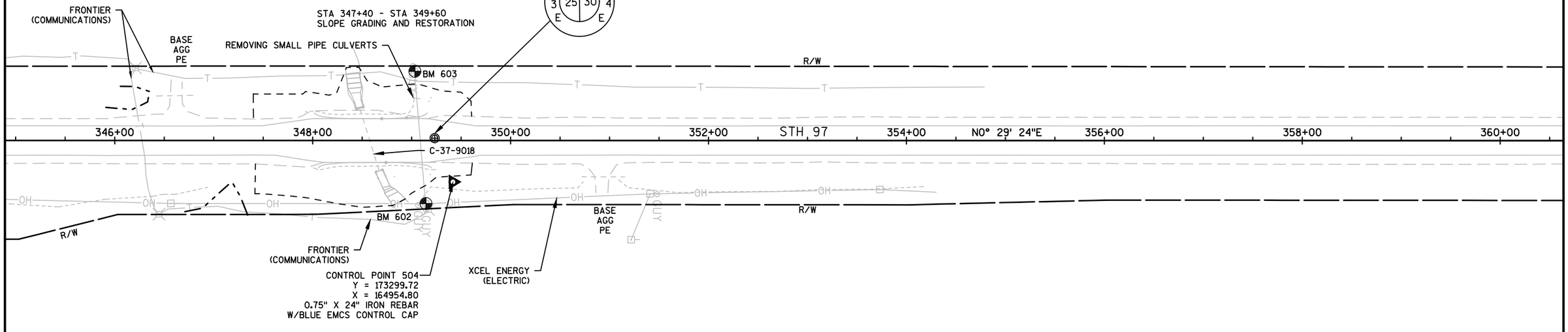
STA 347+40 - STA 349+60
SLOPE GRADING AND RESTORATION

LANDMARK
REFERENCE
MONUMENTS



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
602	349+15,RT	RAILROAD SPIKE SET IN PPOLE *90240036	1342.76
603	349+03,LT	RAILROAD SPIKE SET IN PPOLE	1344.52



STA 347+40 - STA 349+60, LT & RT
GRADE AND RESTORE DITCHES

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 126	E

N

BASE
AGG
PE

360+00 362+00 364+00 366+00 STH 97 368+00 N0° 29' 24"E 370+00 372+00 374+00

5

5

BLUEBERRY RD

PI: 375+75.83
Y: 175933.92
X: 164935.49

BASE
AGG
PE

376+00 378+00 380+00 N0° 53' 43"E 382+00 STH 97 384+00 386+00 388+00 390+00

ASPH
PE

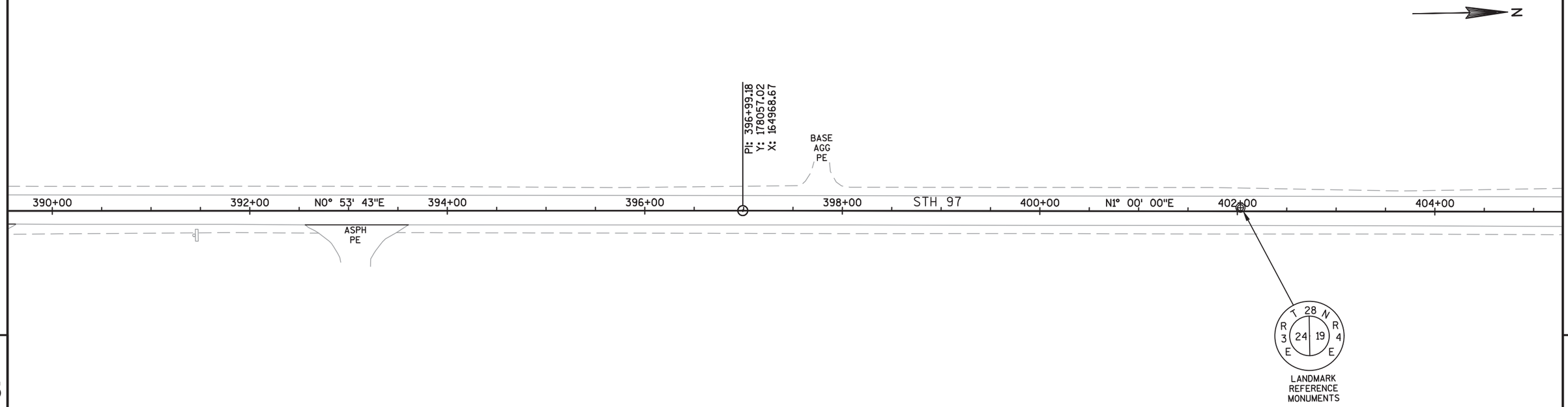
BASE
AGG
PE

BLUEBERRY ST

T28N R4E 24 19 25 30 R3E T28N

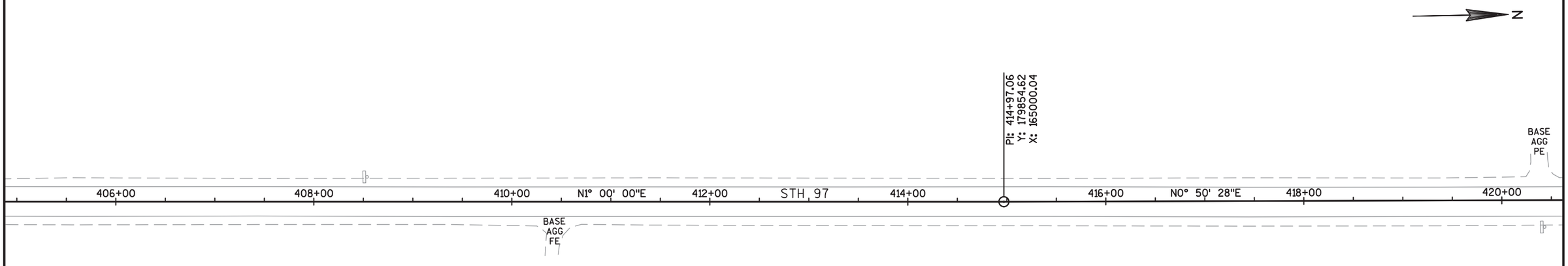
LANDMARK
REFERENCE
MONUMENTS

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 127	E



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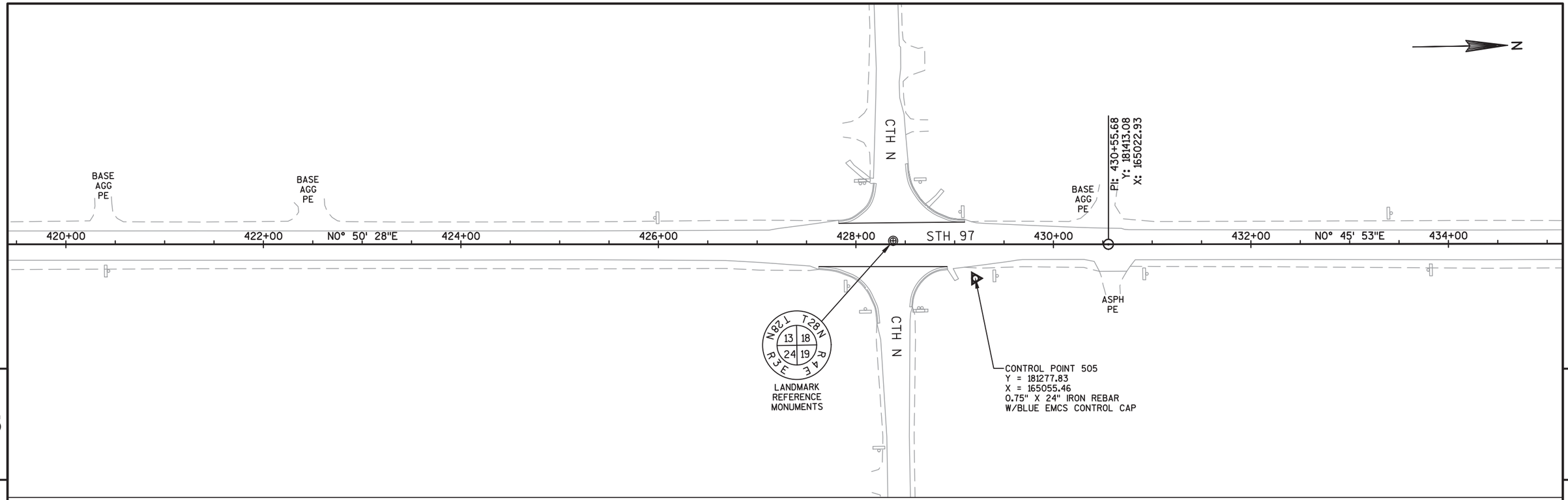
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 128	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050411-PN(18).DWG
LAYOUT NAME - 0504(25)-PN

PLOT DATE : 12/1/2017 7:28 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF



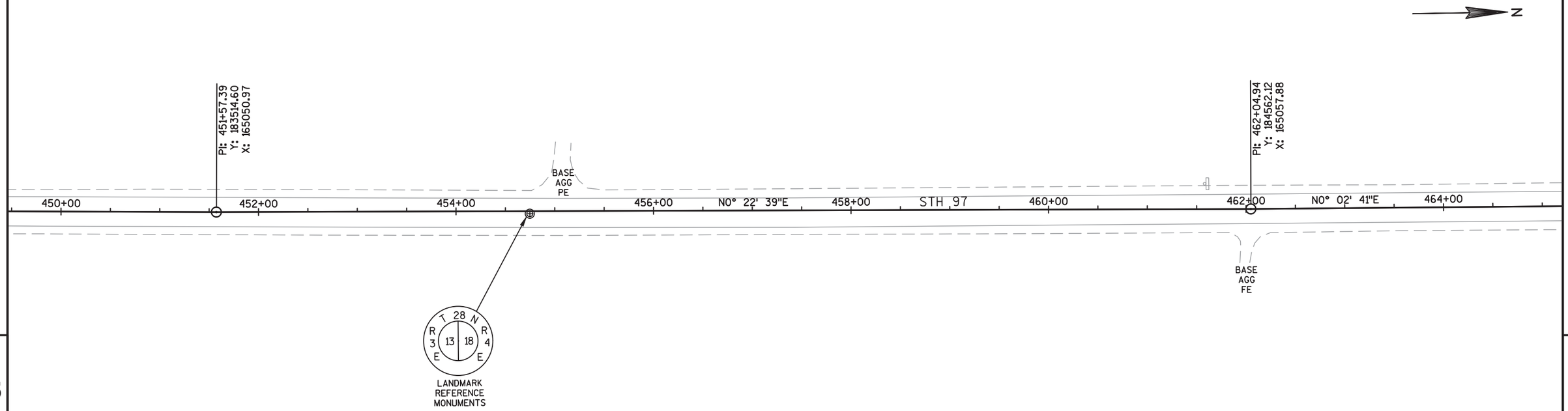
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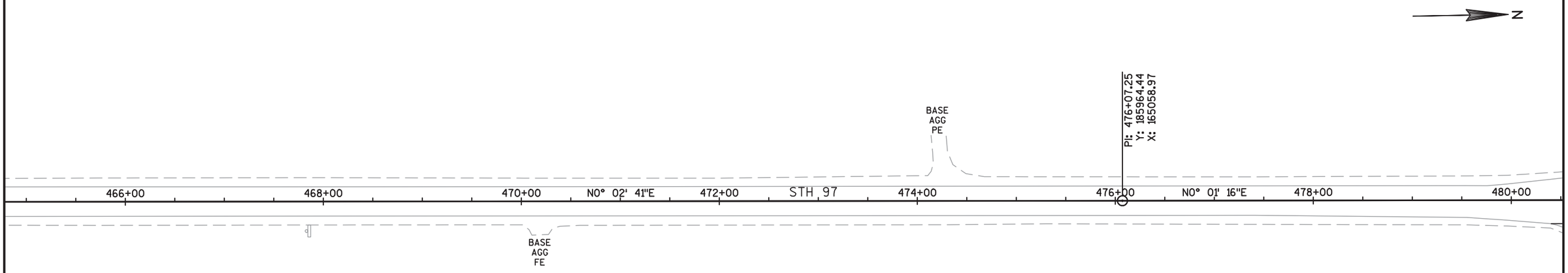
5

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 129	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050411-PN(18).DWG
LAYOUT NAME - 0504(27)-PN

PLOT DATE : 12/1/2017 7:28 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

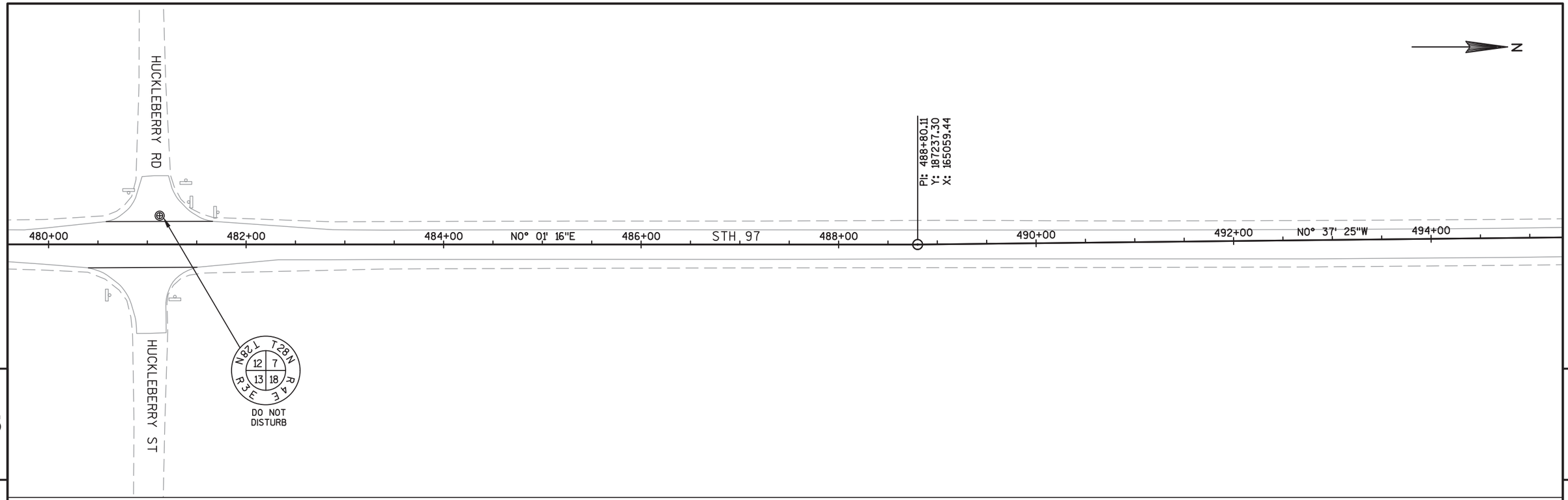


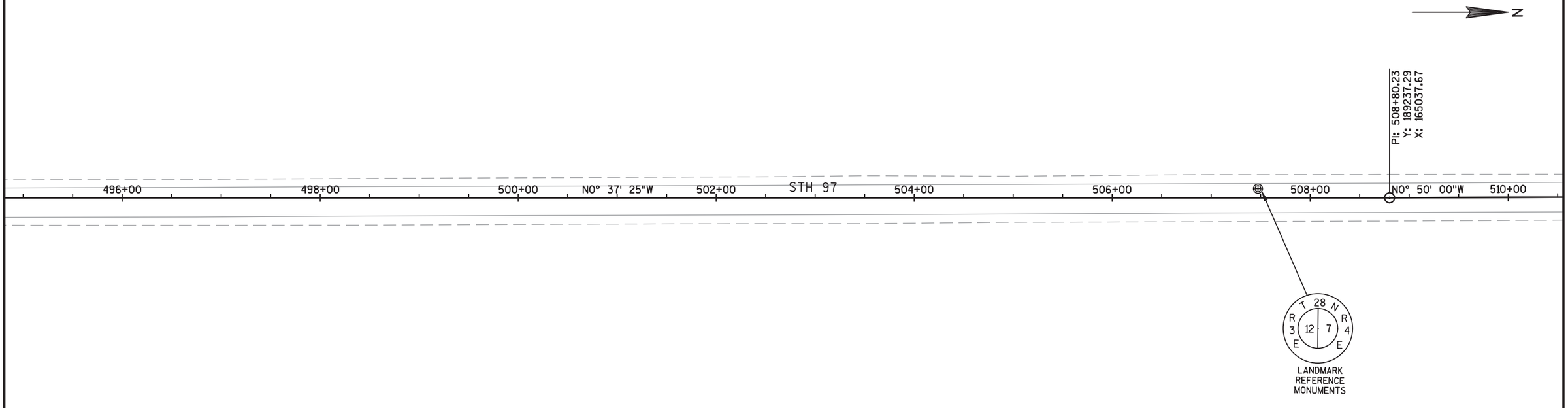


PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 130	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050411-PN(18).DWG
LAYOUT NAME - 0504(29)-PN

PLOT DATE : 12/1/2017 7:28 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF





PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 131	E

N

ASPH
PE

510+00 512+00 514+00 516+00 STH 97 518+00 N0° 50' 00"W 520+00 522+00 524+00

5

5

N

ELDERBERRY RD

PI: 528+80.49
Y: 191237.34
X: 165008.58

526+00 N0° 50' 00"W 528+00 530+00 532+00 STH 97 534+00 N0° 50' 06"W 536+00 538+00 540+00

ELDERBERRY ST

B-37-0118
TO REMAIN

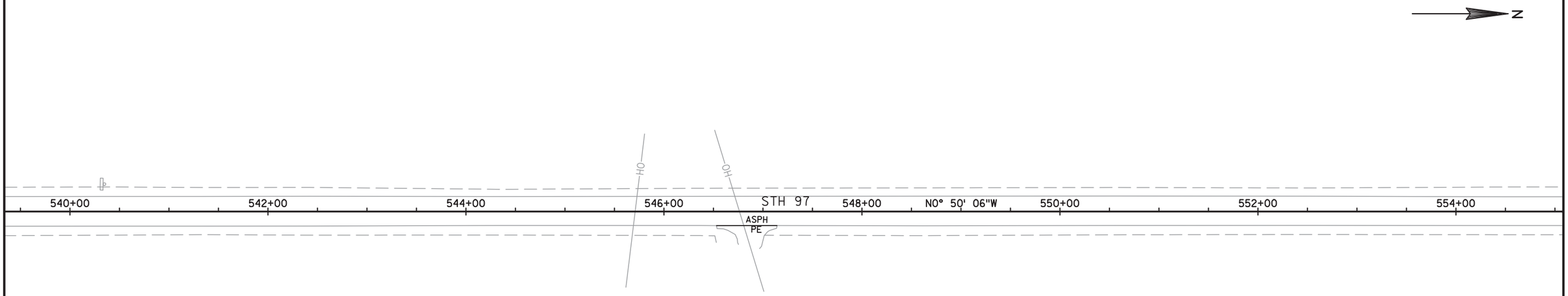
T28N R3E 1 6 12 7 T28N R4E

DO NOT
DISTURB

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 132	E

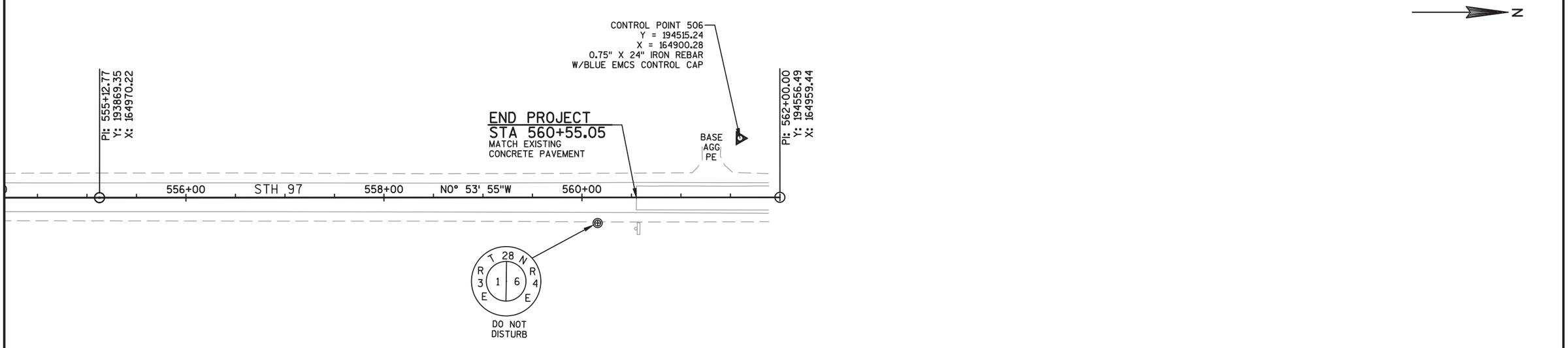
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LAYOUT NAME - 0504(33)-PN

PLOT DATE : 12/1/2017 7:29 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1" = 100'_XREF



5

5



PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN	SHEET 133	E

NOTES
SEE PAVING DETAILS FOR CURB RAMP UPGRADES.

SEE TRAFFIC SIGNAL DETAILS FOR STH 97/STH 153 LOOP AND SIGNAL IMPROVEMENTS.

(L) LOOP DETECTOR REPLACEMENT AREA
REMOVE PAVEMENT AND REMOVE CURB & GUTTER
REPLACE WITH 5" ASPHALTIC SURFACE PATCHING
OVER 15" BASE AGGREGATE DENSE 1 1/4-INCH AND
CONCRETE CURB & GUTTER TYPE D.

N

PI: 7+00.00
Y: 144256.66
X: 164461.87

PI: 10+00.00
Y: 144255.16
X: 164761.86

PI: 13+00.00
Y: 144265.15
X: 165061.70

PI: 58+96.41
Y: 144255.16
X: 164761.86

CONTROL POINT 500
Y = 144340.21
X = 164786.69
0.75" X 24" IRON REBAR
W/BLUE EMCS CONTROL CAP

PROPOSED R/W

LANDMARK
REFERENCE
MONUMENTS

T27N R4E
19 24 25 30
T27N R3E

WE ENERGIES
(GAS)

TLE

R/W

CAUTION

CONC

ASPH

STH 153

STH 97

8'S'+00

9'S'+00

10'S'+00

11'S'+00

12'S'+00

59+00

60+00

58+00

57+00

NO° 05' 08"W

NO° 35' 48"E

BEGIN CONSTRUCTION, 7+96
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

BEGIN CONSTRUCTION, 12+05
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

VILLAGE OF STRATFORD
(WATER)

BM 604

STRATFORD WASTEWATER TREATMENT FACILITY
(SEWER)

RESIDUAL GROUNDWATER AND
SOIL CONTAMINATION
NO EXCAVATION BEYOND 4-FEET IN
DEPTH (SEE SPECIAL PROVISIONS)

WISCONSIN PUBLIC SERVICE
(ELECTRIC)

FRONTIER
(COMMUNICATIONS)

CHARTER
(COMMUNICATION),
FRONTIER
(COMMUNICATIONS), &
WISCONSIN PUBLIC SERVICE
(ELECTRIC)

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
604	58+56,LT	CHISELED SQUARE ON WISDOT CONTROL CABINET PAD	1264.01

PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	PLAN - STH 153	SHEET 134	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\050421-PN.DWG
LAYOUT NAME - 050405-PN

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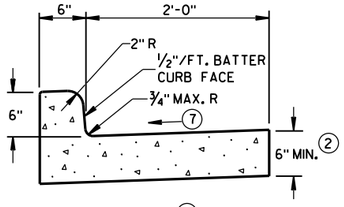
Standard Detail Drawing List

08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-01	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-01	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09G02-04A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-04B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-04C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
12A03-10	NAME PLATE (STRUCTURES)
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B15-10A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-10B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-10C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B25-01	STEEL PLATE BEAM GUARD, CLASS "A", OVER LOW FILL CULVERTS
14B27-01A	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01B	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01C	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B29-01	SAFETY EDGE
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C06-08	SIGNING & MARKING FOR TWO LANE BRIDGES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES

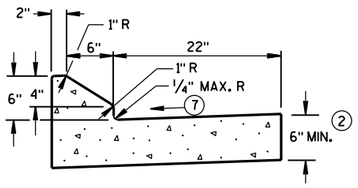
6

Standard Detail Drawing List

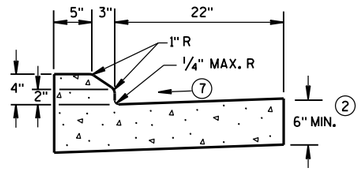
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-02A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-03B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-03C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D33-04	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-01	TRAFFIC CONTROL, DROP-OFF SIGNING
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS



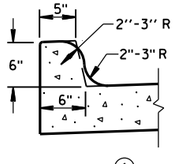
TYPES A (1) & D



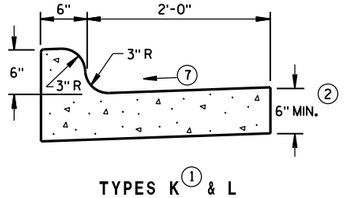
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

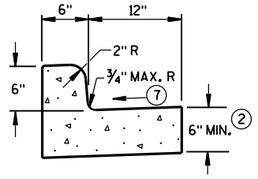


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



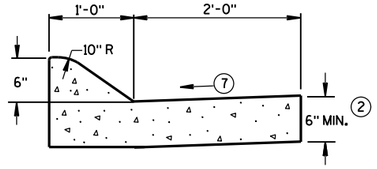
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

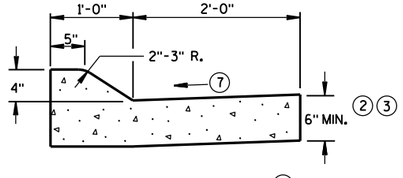


TYPES A (1) & D

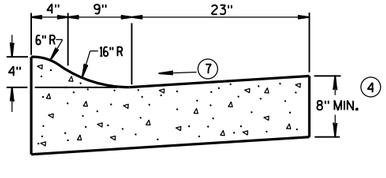
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

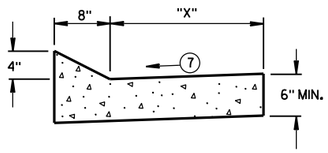


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

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

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS 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 & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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 GUTTER 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) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

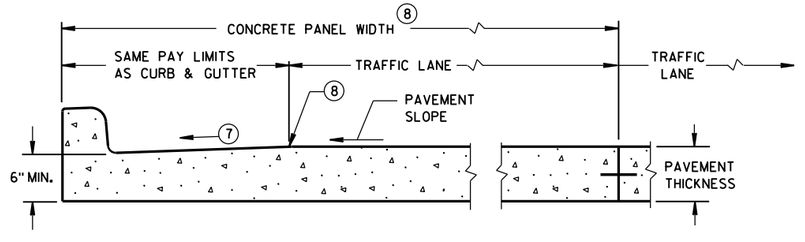
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(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.

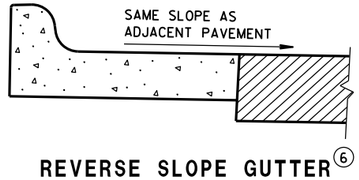
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

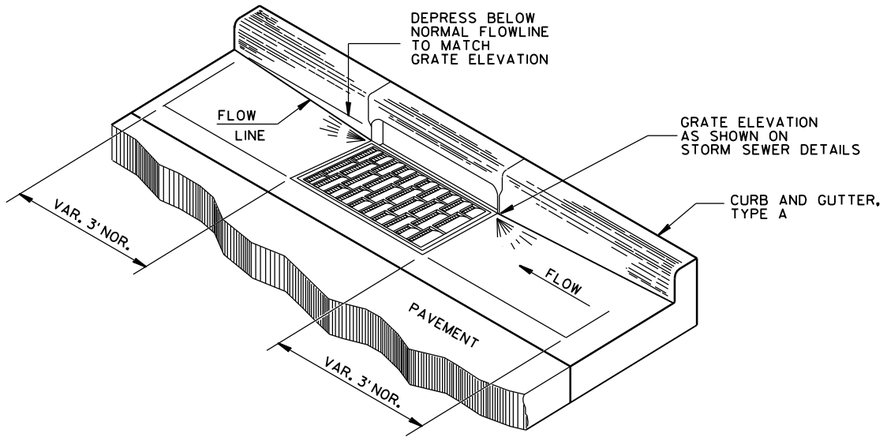
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

S.D.D. 8 D 1-20a

6

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

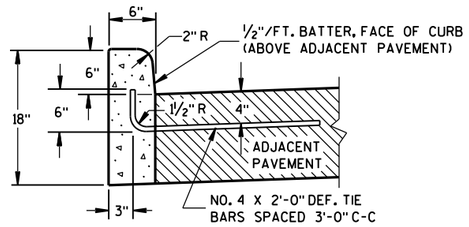
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

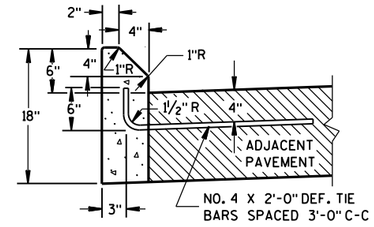
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

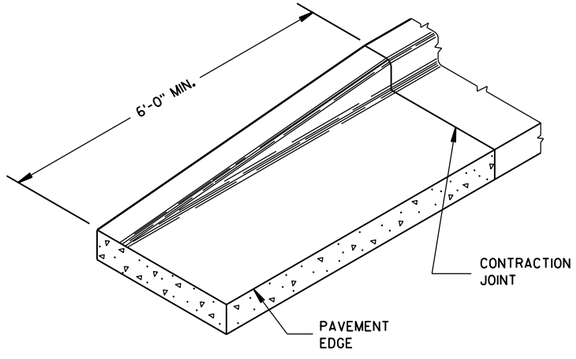


TYPES A(1) & D

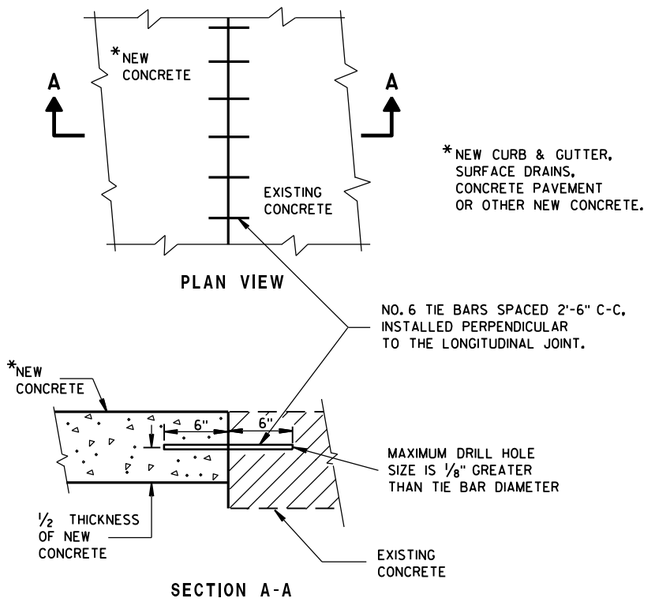


TYPES G(1) & J

CONCRETE CURB



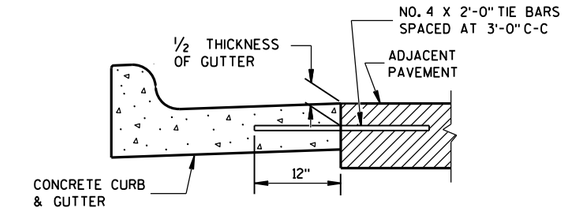
END SECTION CURB & GUTTER



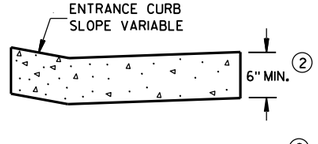
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

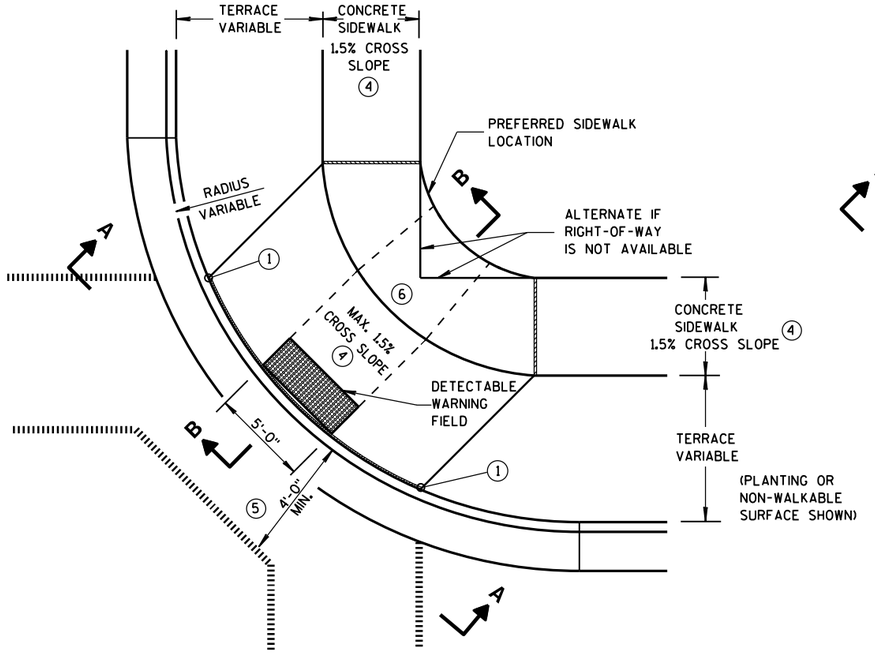
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA
ENT

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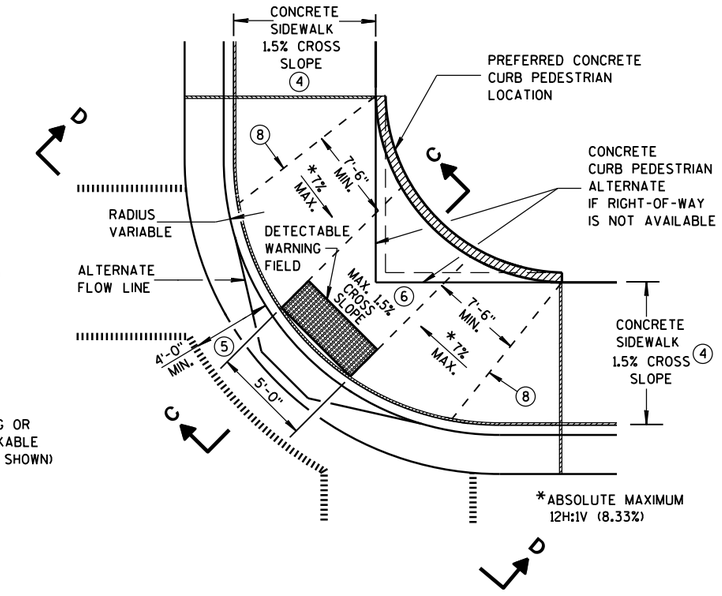
S.D.D. 8 D 1-20b



PLAN VIEW

TYPE 1 RAMP

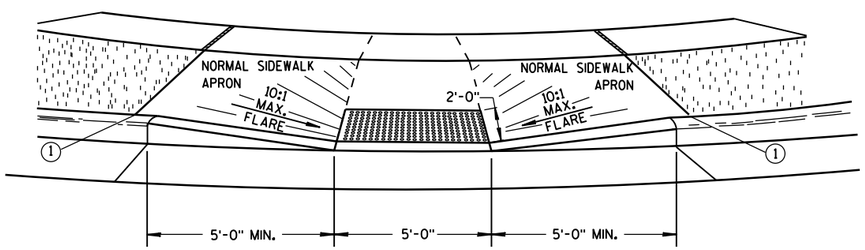
(CENTER OF CORNER RADIUS)



PLAN VIEW

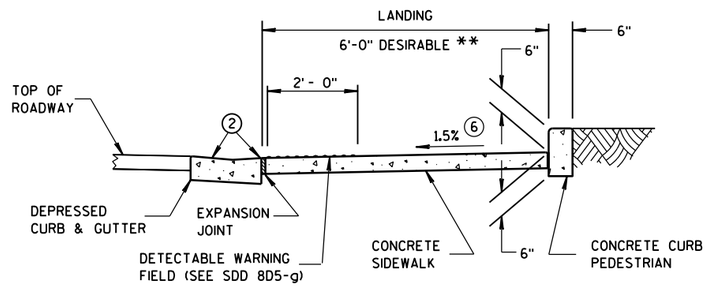
TYPE 1-A RAMP

(NO TERRACE)

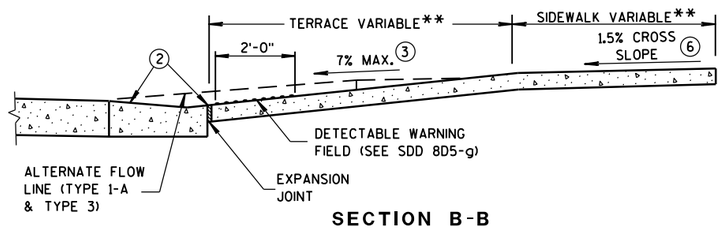


VIEW A-A

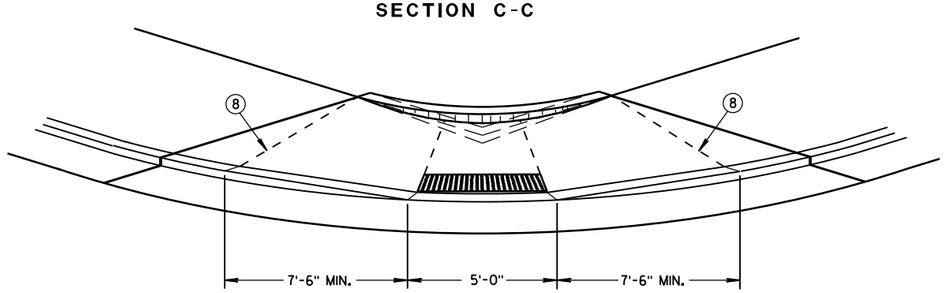
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION C-C



SECTION B-B



VIEW D-D

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

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

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER 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) ABSOLUTE MAXIMUM 12H:1V (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.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

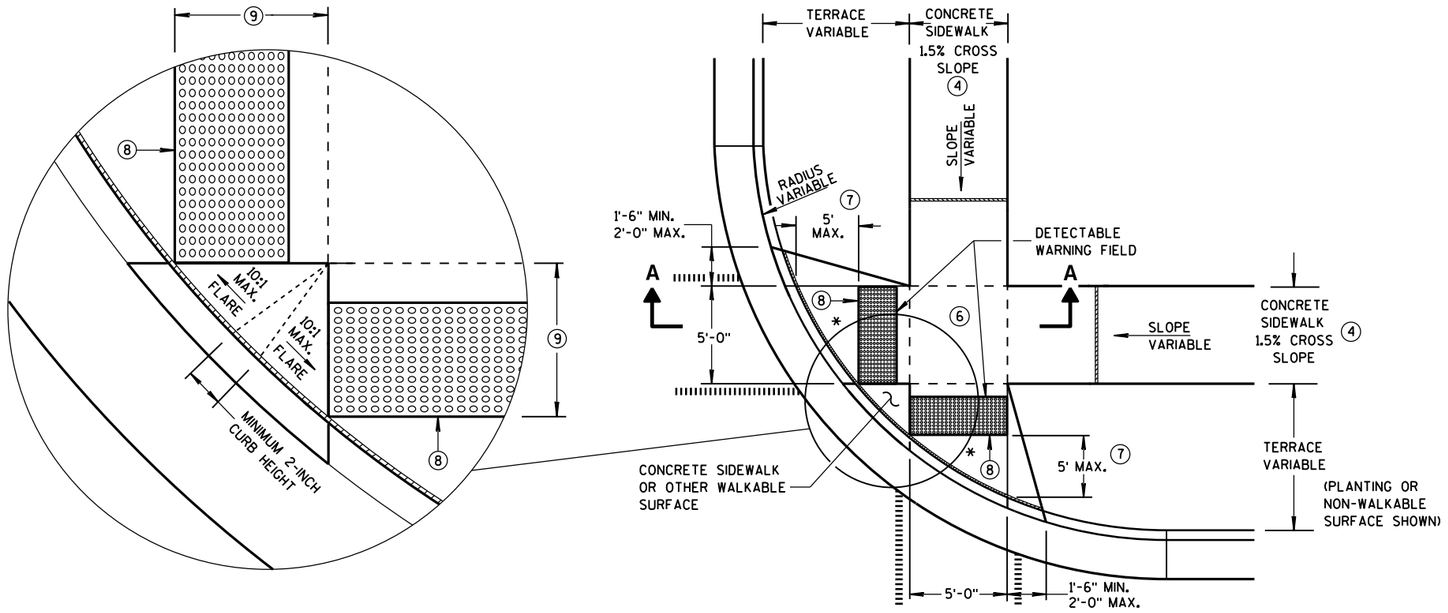
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

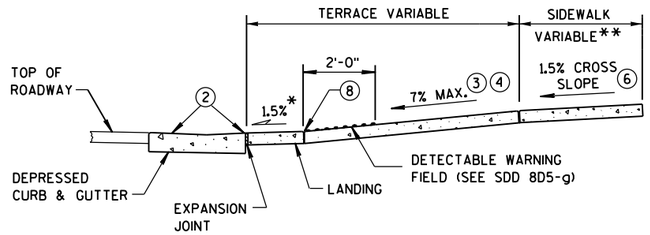
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S.D.D. 8 D 5-19a



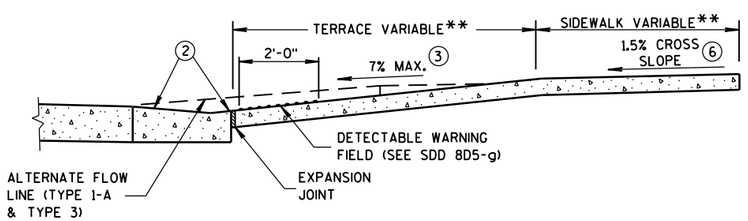
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

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



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

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

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

(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) ABSOLUTE MAXIMUM 12H:1V (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 X 5 FEET.

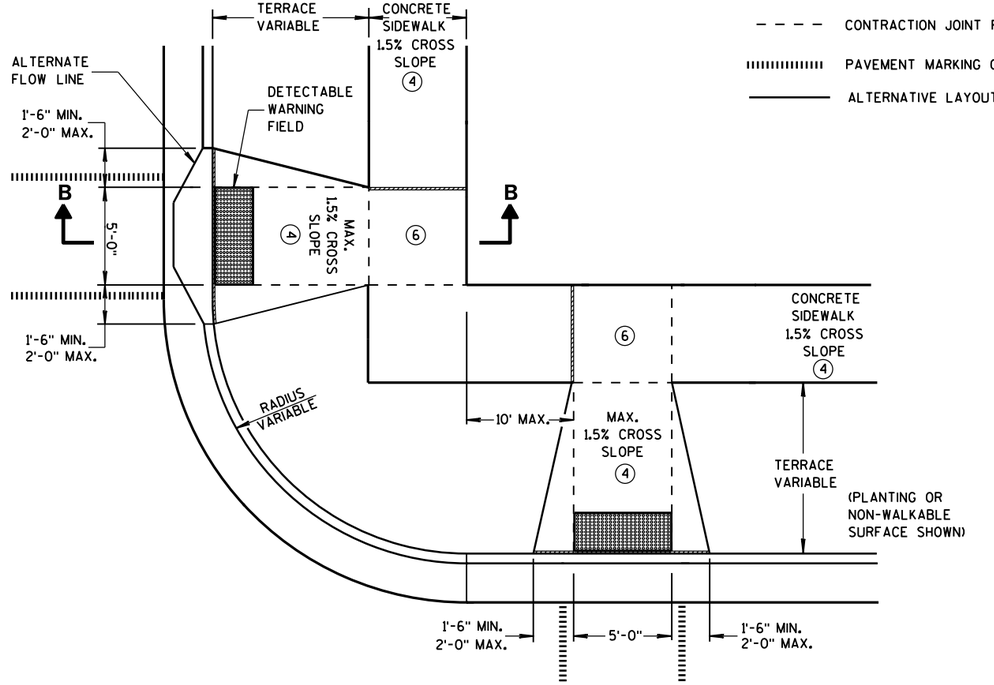
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS 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.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



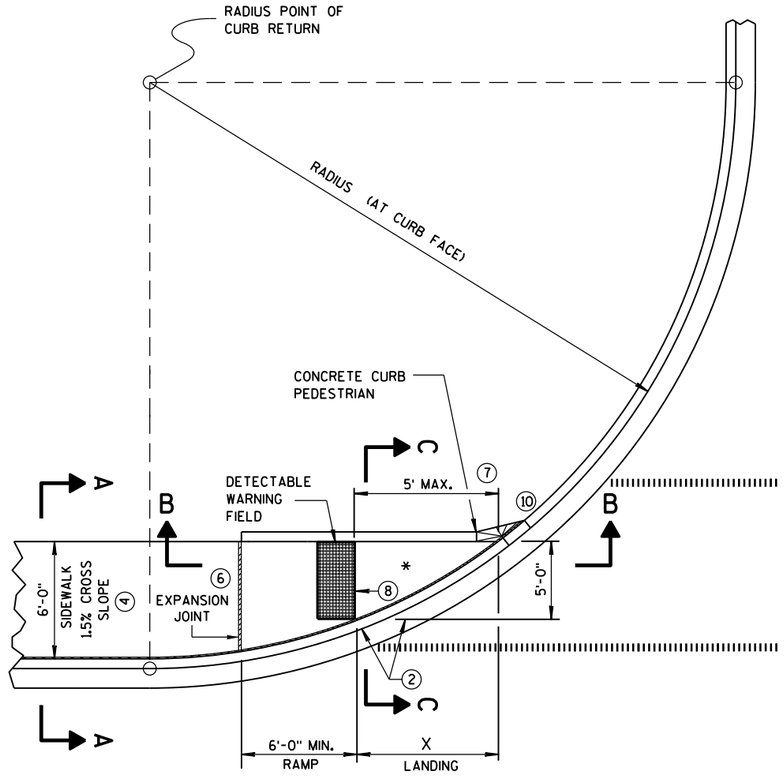
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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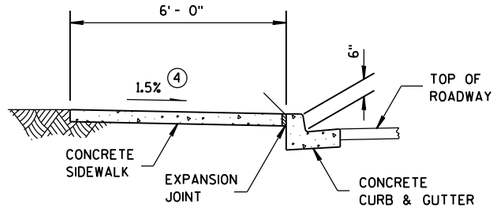
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

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

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

(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 ¼-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) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

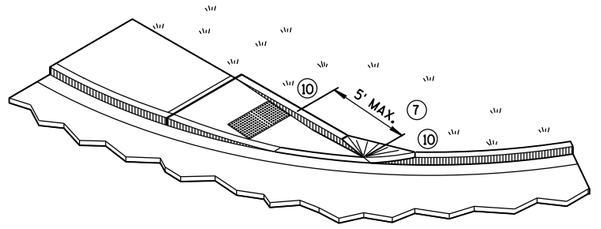
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

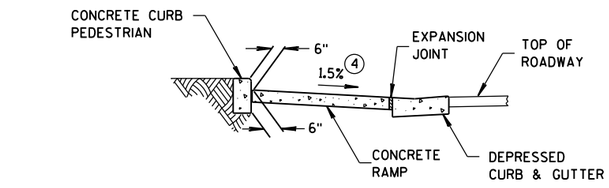
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

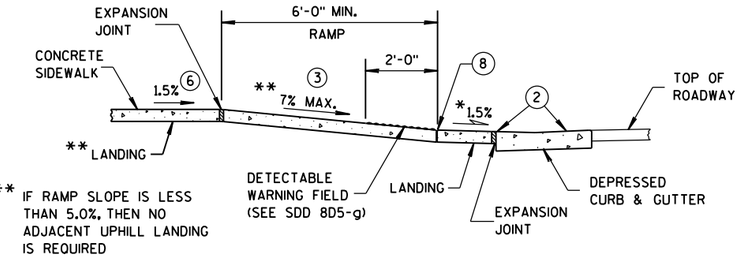


ISOMETRIC VIEW FOR TYPE 4A



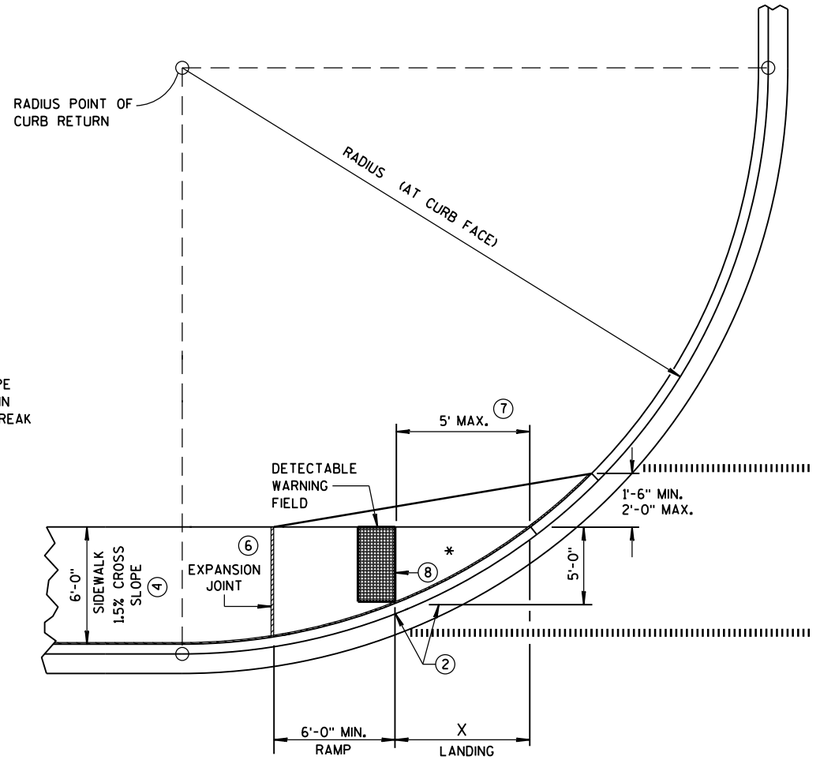
SECTION C-C FOR TYPE 4A

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

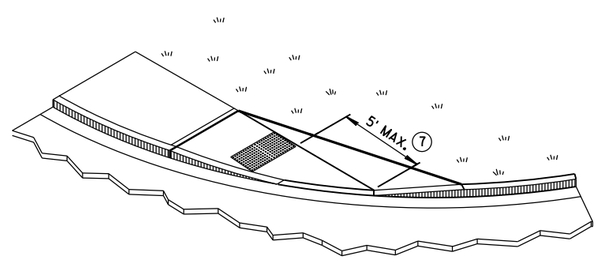


** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

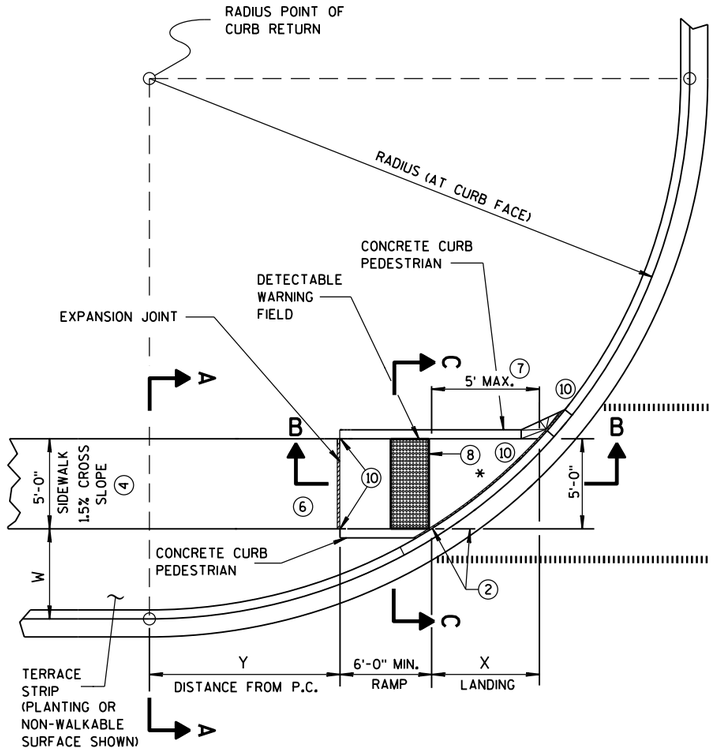
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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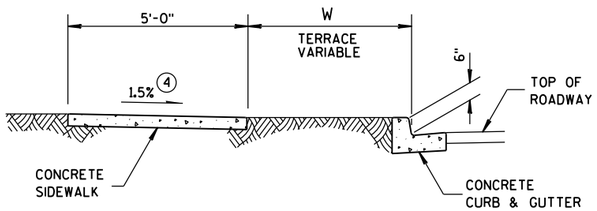
S.D.D. 8 D 5-19c

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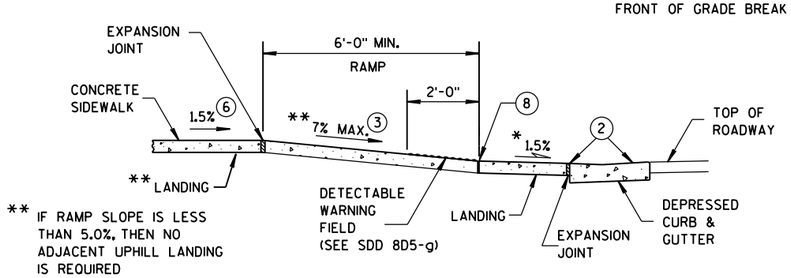
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CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



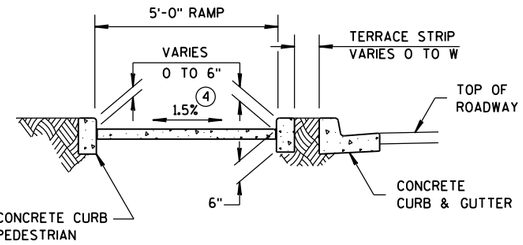
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

GENERAL NOTES

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

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

(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 ¼-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) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

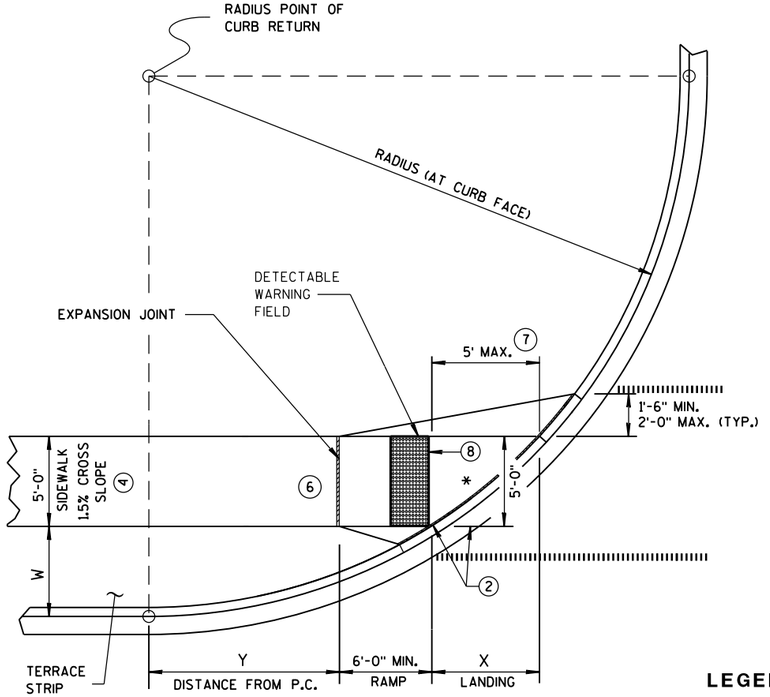
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

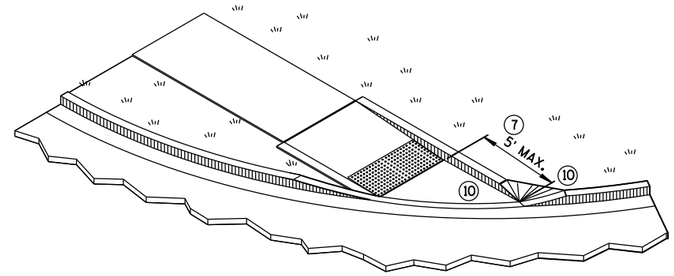
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

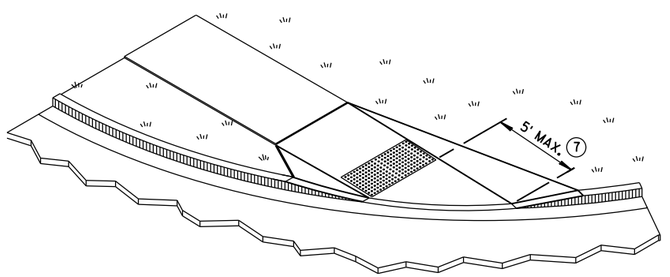
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

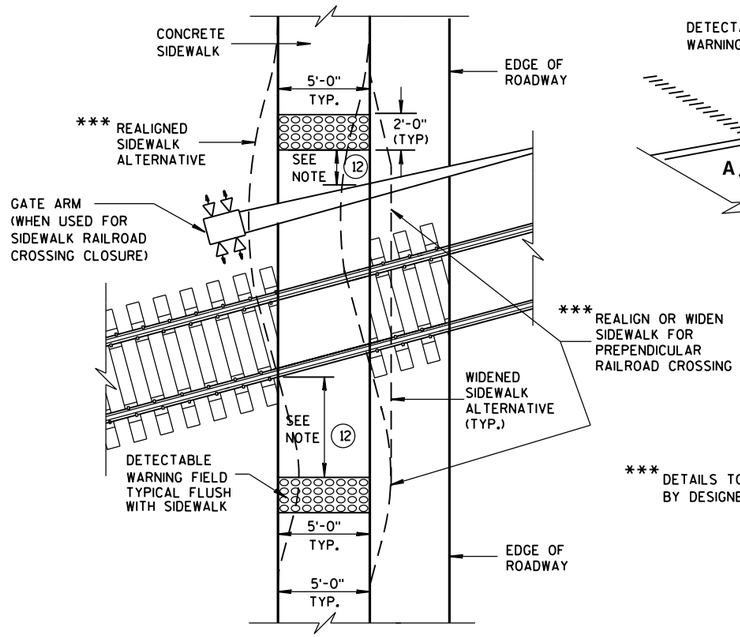
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

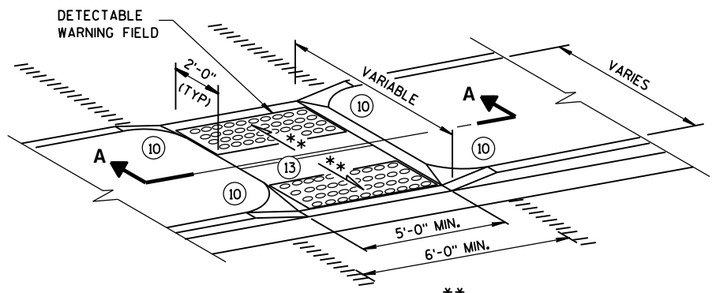
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 8 D 5-19d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

*** DETAILS TO BE DETERMINED BY DESIGNER

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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

(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) ABSOLUTE MAXIMUM 12H:1V (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.

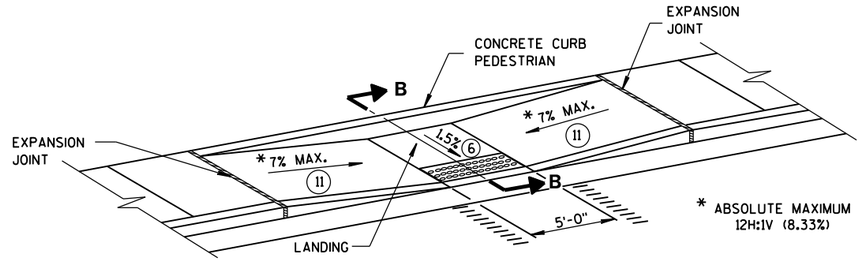
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

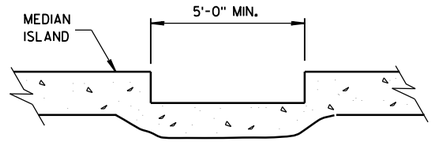
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

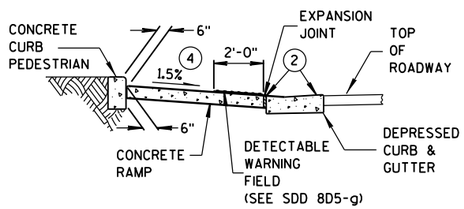
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

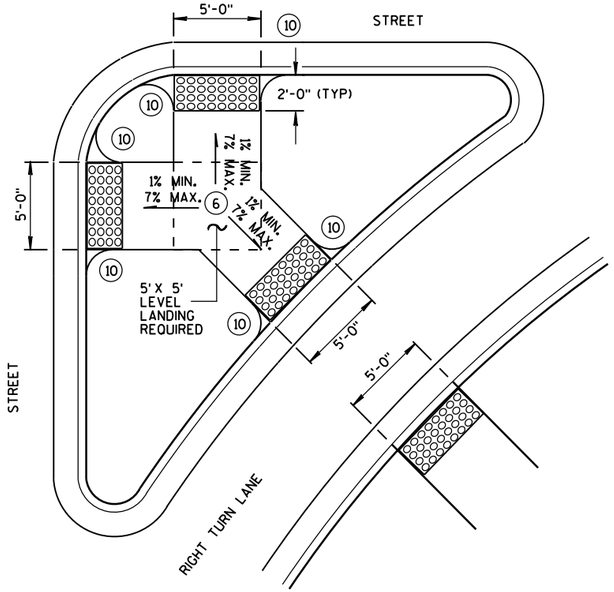


SECTION A-A

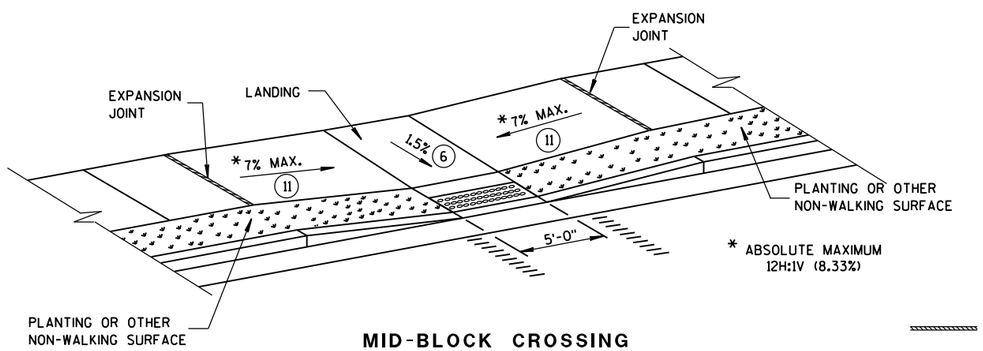


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

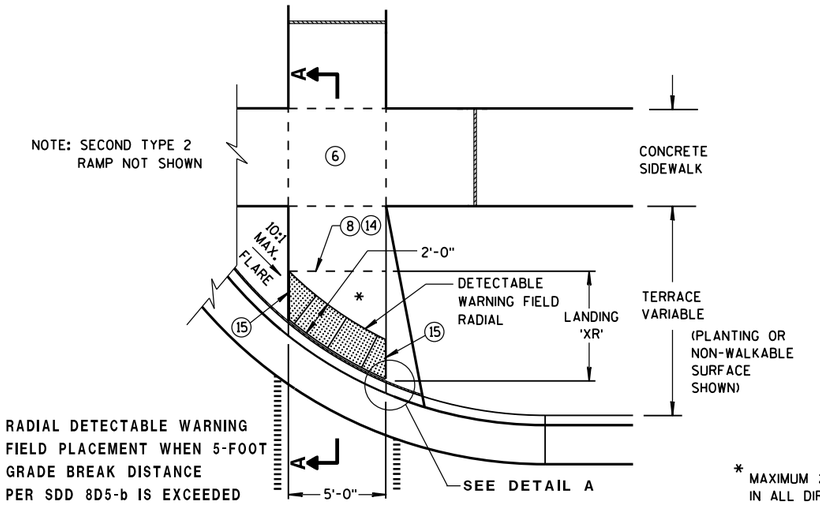
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

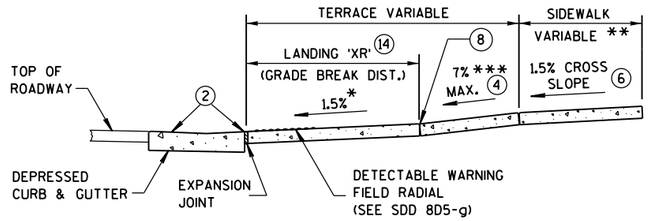
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S.D.D. 8 D 5-19e



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

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



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

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

DETECTABLE WARNING FIELDS (DWFs) 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 ¼-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) ABSOLUTE MAXIMUM 12H:1V (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 X 5 FEET.

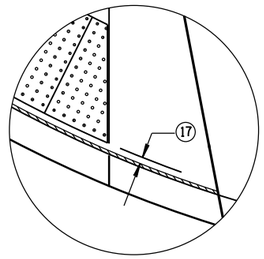
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

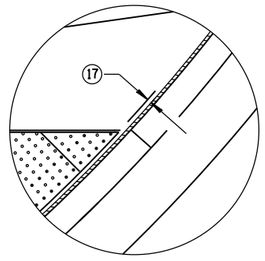
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(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.

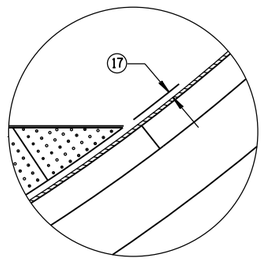
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



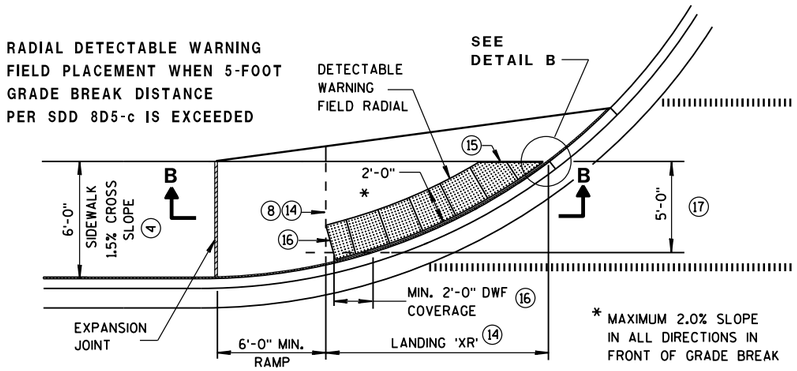
DETAIL A



DETAIL C

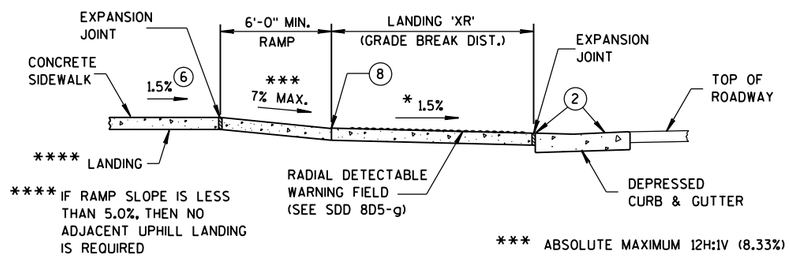


DETAIL B



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

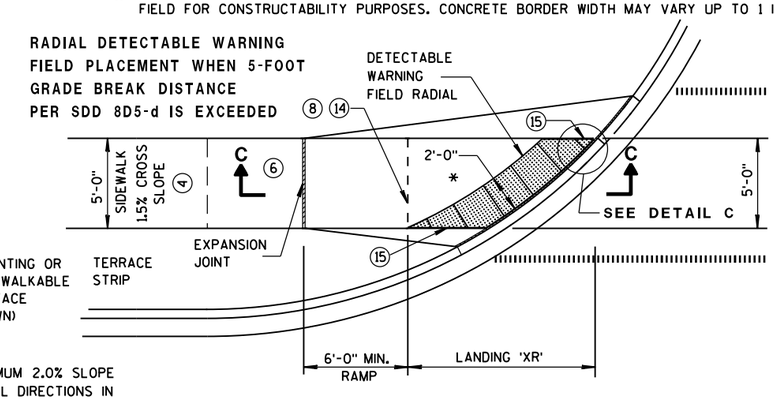
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

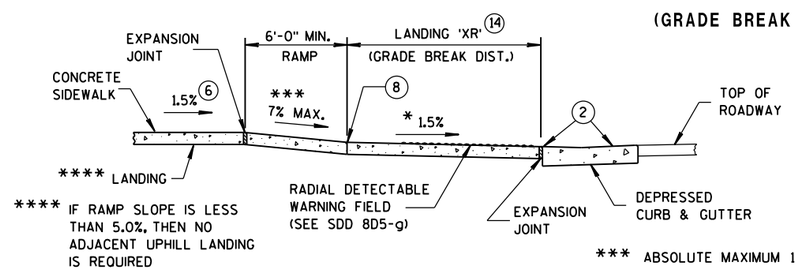
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



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

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



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

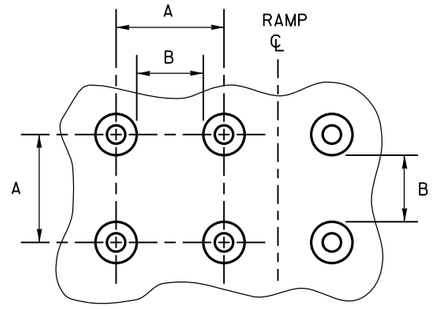
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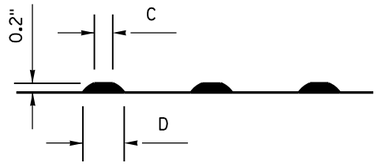
S.D.D. 8 D 5-19f

	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

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, 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 FIELD ARE PROHIBITED.

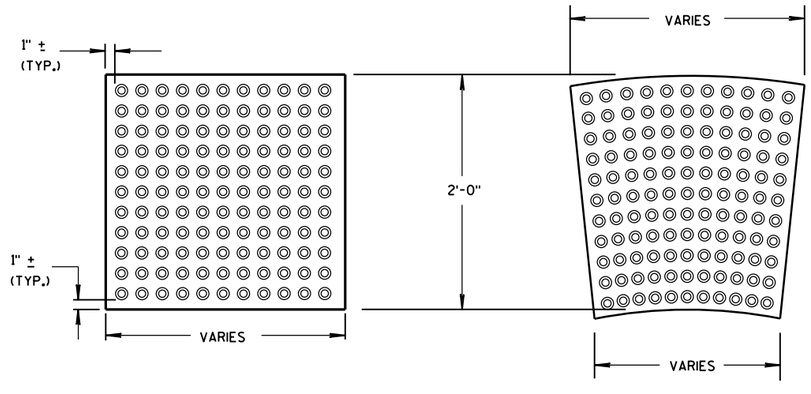
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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 WEDGES IN COMBINATION WITH SQUARE PANELS 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.

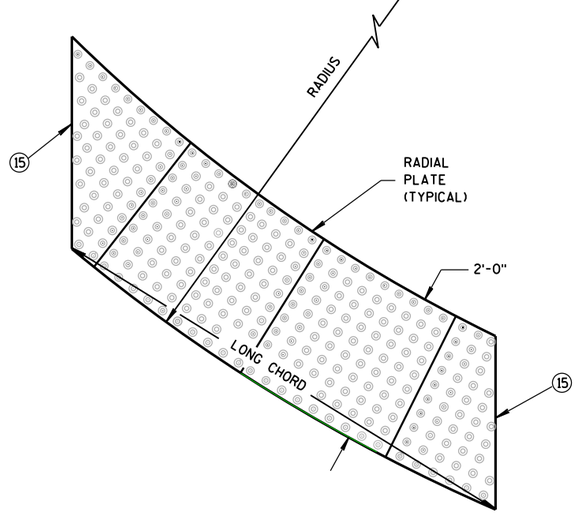


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

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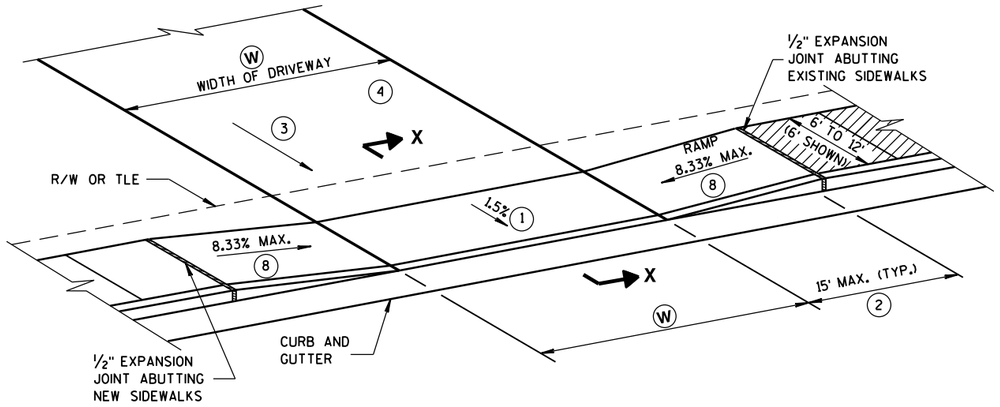
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
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FHWA

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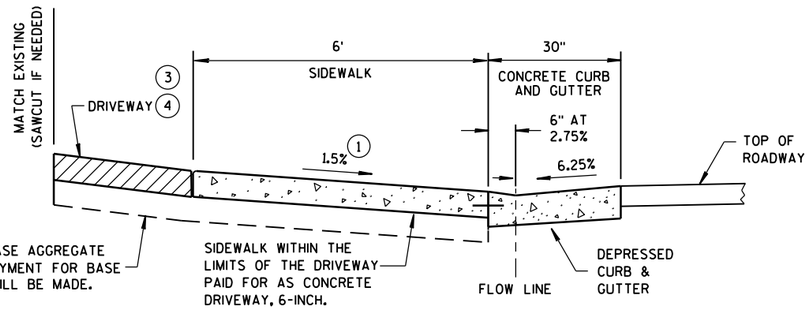
S.D.D. 8 D 5-19g

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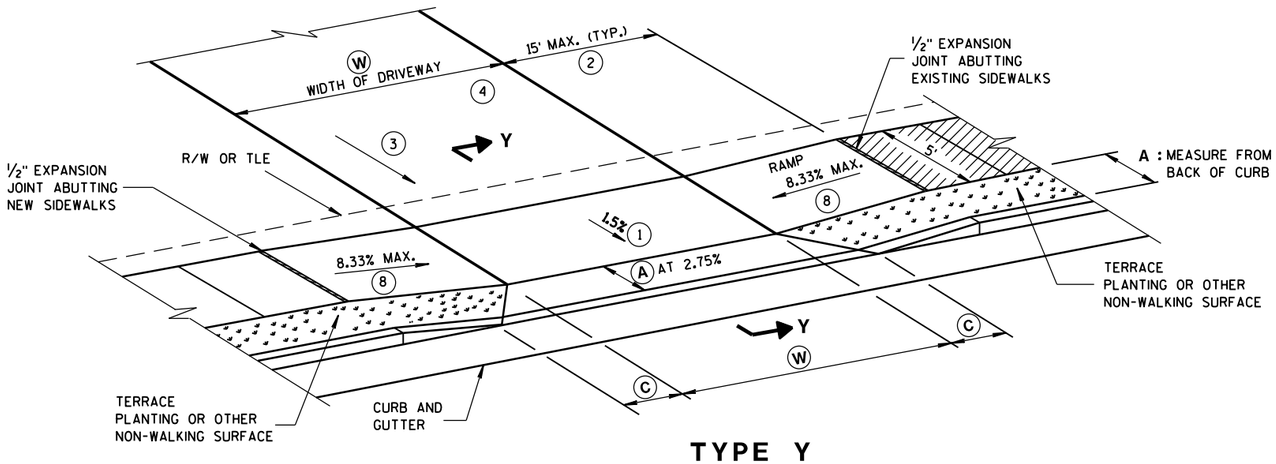
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TYPE X
SIDEWALK ABUTS CURB & GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X-X

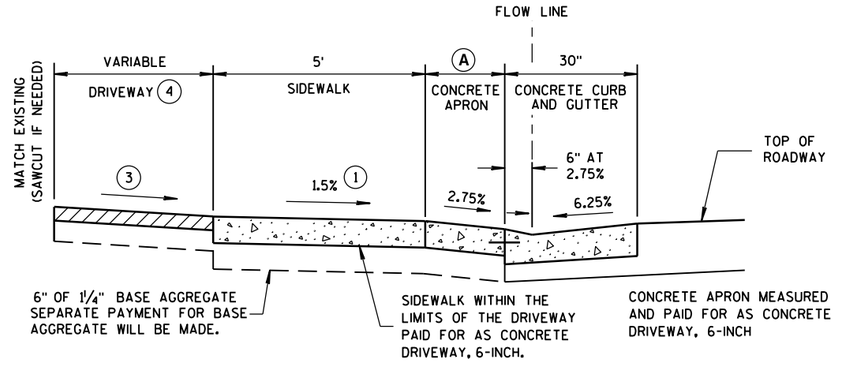


TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

1. CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
2. THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.
3. DRIVEWAY SLOPES: DESIRABLE MAXIMUM
   - 10.5% UP AWAY FROM SIDEWALK (SAG)
   - 8.5% DOWN AWAY FROM SIDEWALK (CREST)
   - ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG
4. DRIVEWAY TYPES
   - 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
   - 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
   - 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)
5. PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.
6. (W) IS SHOWN ON PLAN AND PROFILE SHEETS.
7. OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.
8. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER
(URBAN AND SUBURBAN)

TABLE Y

(A) FEET	(C) FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

NOT TO SCALE

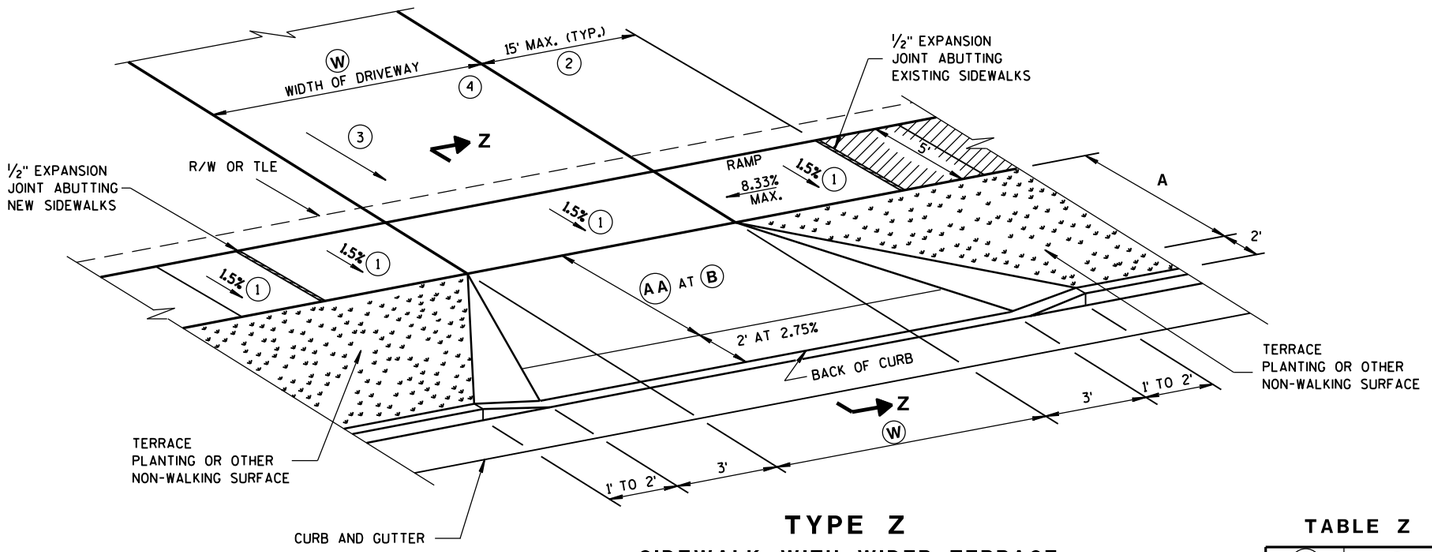
DRIVEWAY AND SIDEWALK RAMPS
TYPES X & Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS UNIT SUPERV
FHWA

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S.D.D. 8 D 18-1

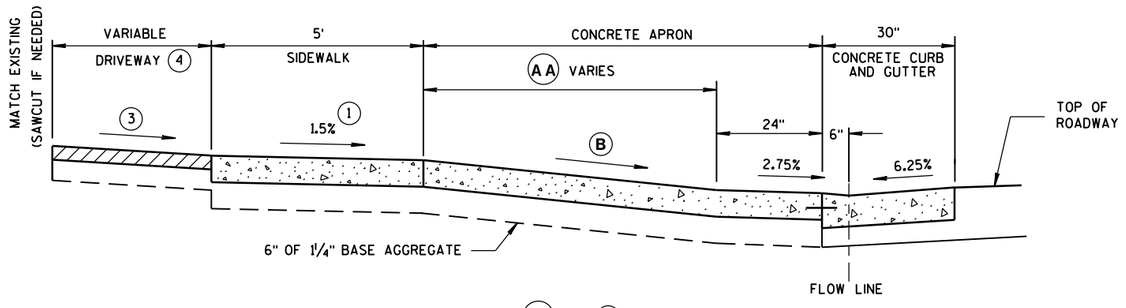


TYPE Z

SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

TABLE Z

(AA) FEET	(B) %
4.5'	11.5%
5.5'	9-11.5%
6.5'	8-11.5%
7.5'	7-11.5%
8.5'	6-11.5%
9.5'	5-11.5%



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR **B** VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY, 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

CONCRETE APRON MEASURED AND PAID FOR AS CONCRETE DRIVEWAY, 6-INCH

SECTION Z-Z

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER

(URBAN AND SUBURBAN)

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

1. CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

2. THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

3. DRIVEWAY SLOPES: DESIRABLE MAXIMUM
   10.5% UP AWAY FROM SIDEWALK (SAG)
   8.5% DOWN AWAY FROM SIDEWALK (CREST)
   ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

4. DRIVEWAY TYPES
   - 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
   - 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
   - 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)

5. PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

6. (W) IS SHOWN ON PLAN AND PROFILE SHEETS.

7. OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS
TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

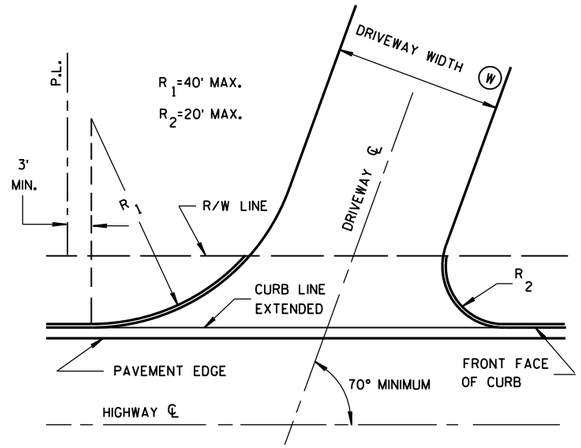
APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
FHWA

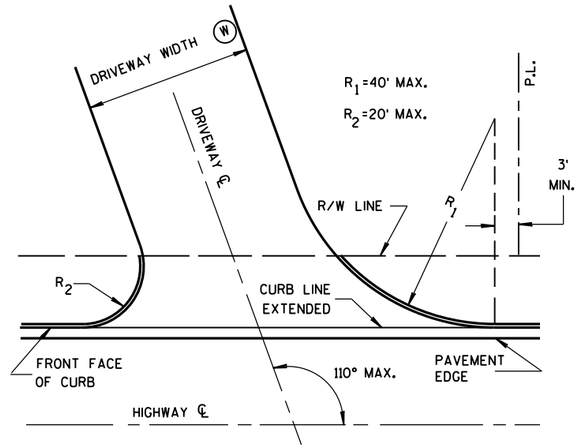
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S.D.D. 8 D 19-1

6

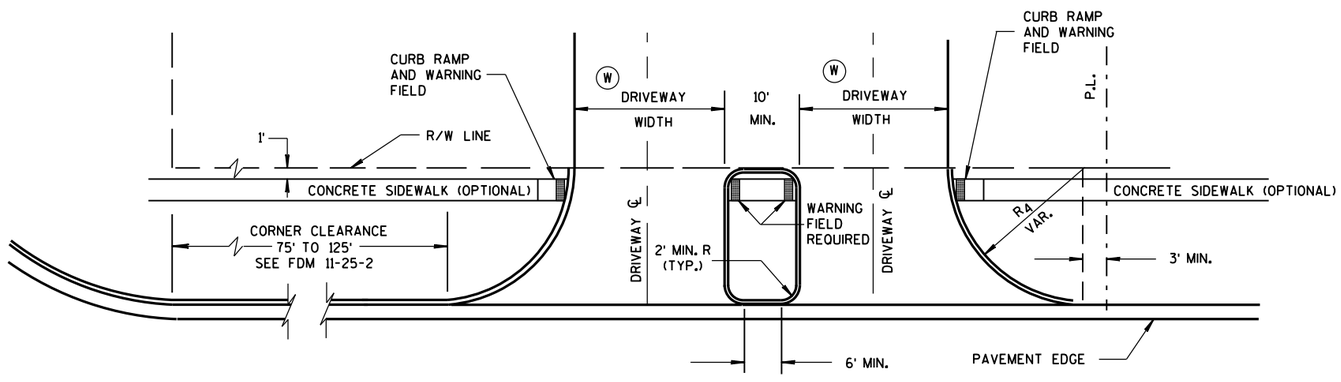
S.D.D. 8 D 19-1





SKEWED DRIVEWAY DETAILS
(COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN



DRIVEWAY LOCATION AND SPACING DETAILS

SIDEWALK SHOWN

NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

Ⓦ DRIVEWAY WIDTHS:

COMMERCIAL - 35' MAX., 16' MIN.

RESIDENTIAL AND NON-COMMERCIAL - 24' MAX., 12' MIN.

DRIVEWAYS WITH CURB & GUTTER RETURNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV
FHWA

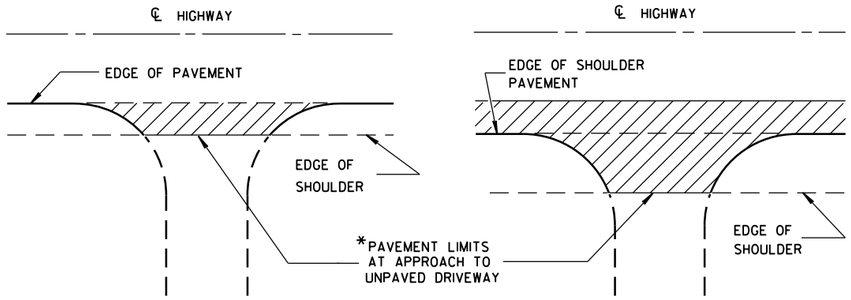
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S.D.D. 8 D 20-1

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S.D.D. 8 D 20-1

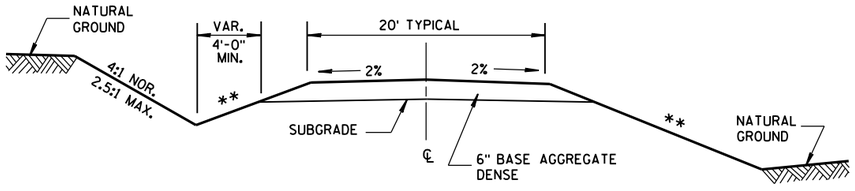


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

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

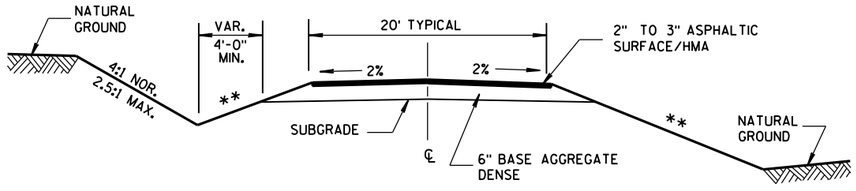


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

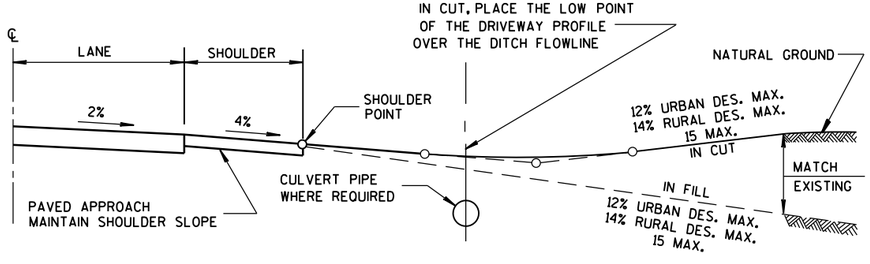
** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

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



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE



TYPICAL DRIVEWAY PROFILES

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

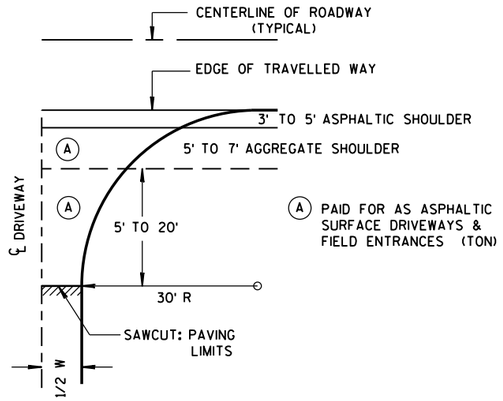
APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
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S.D.D. 8 D 21-1

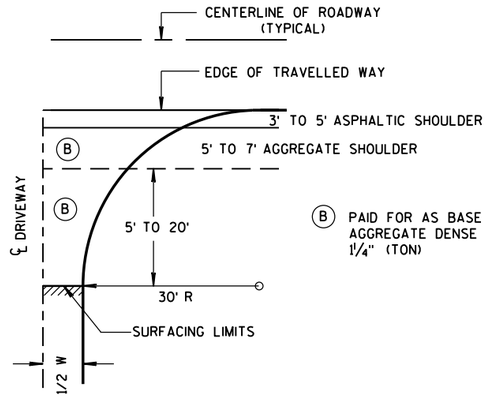
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S.D.D. 8 D 21-1



PLAN VIEW
HALF SECTION

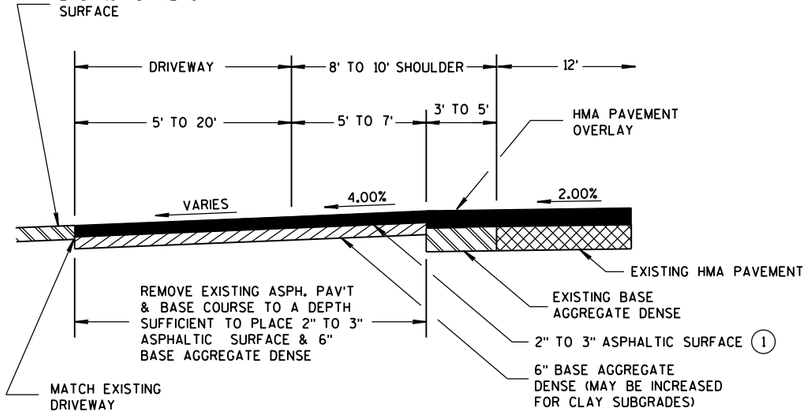
W MIN. = 16'
W MAX. = 24'



PLAN VIEW
HALF SECTION

GENERAL NOTES

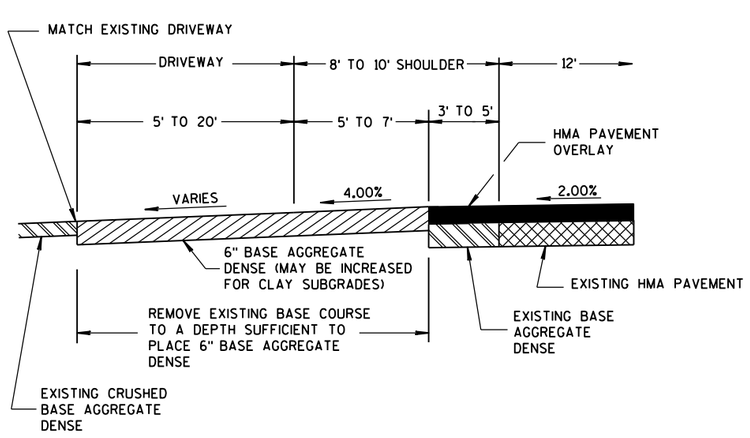
(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

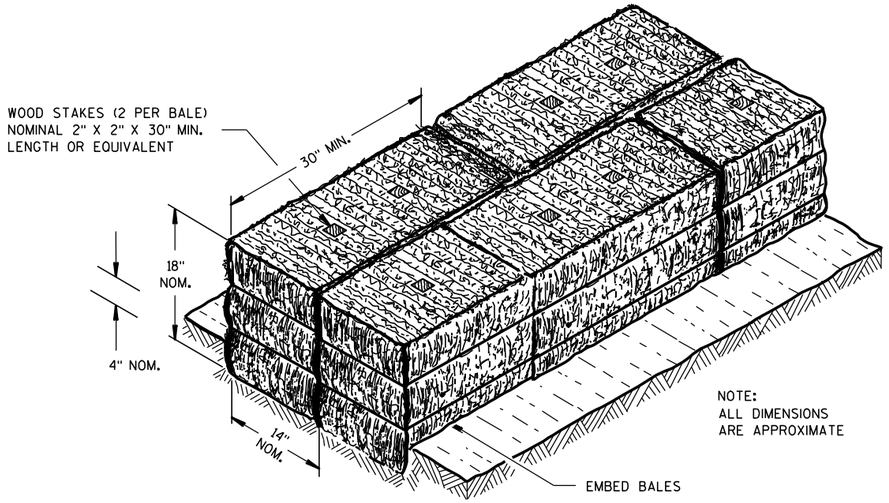
APPROVED
December, 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS UNIT SUPERV — ENT
FHWA

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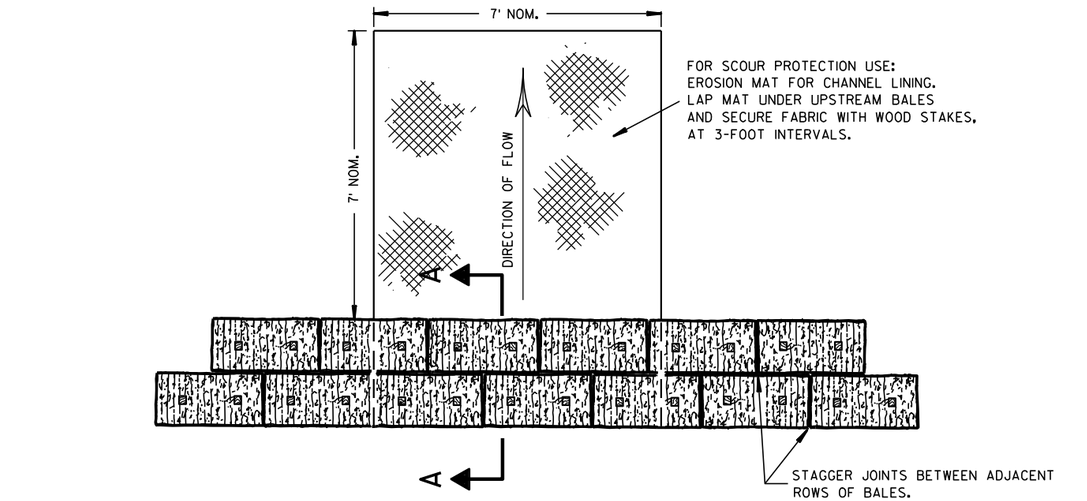
S.D.D. 8 D 22-1

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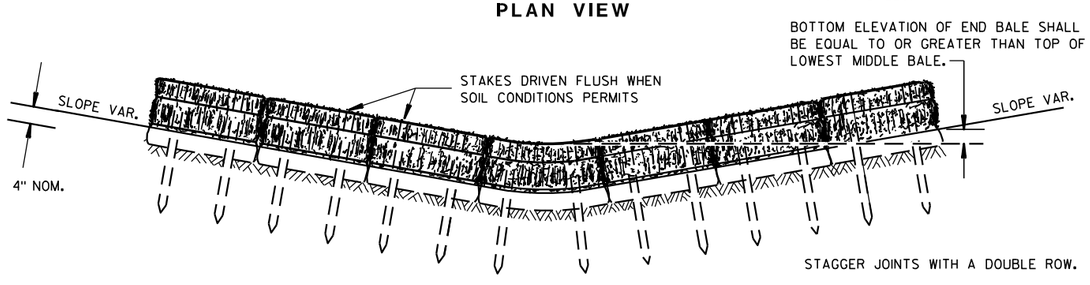
S.D.D. 8 D 22-1



SECTION A-A



PLAN VIEW



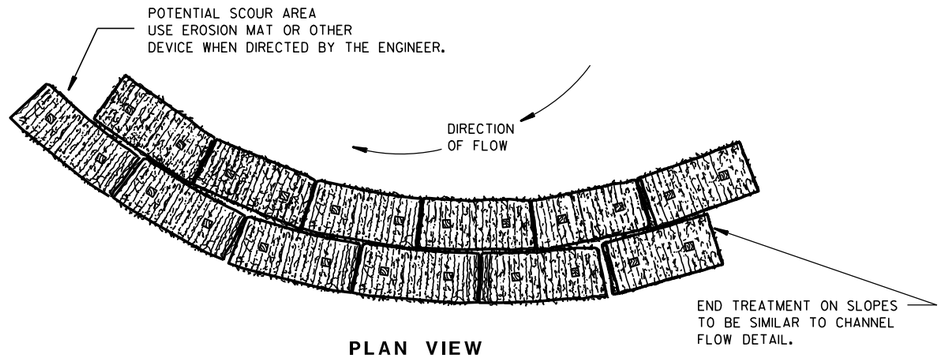
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

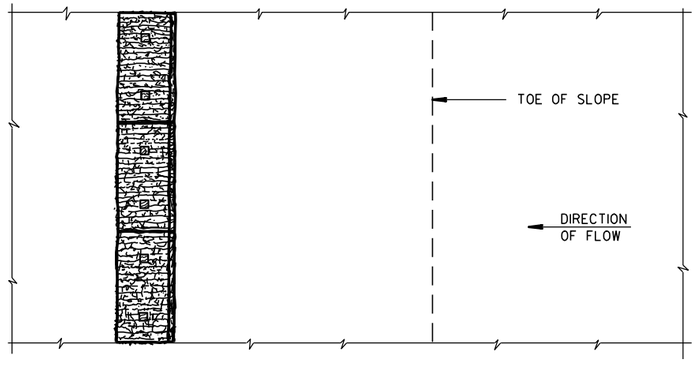
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

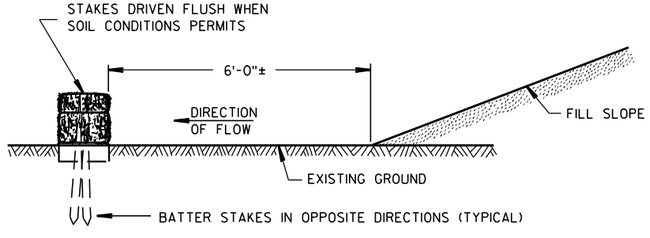


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

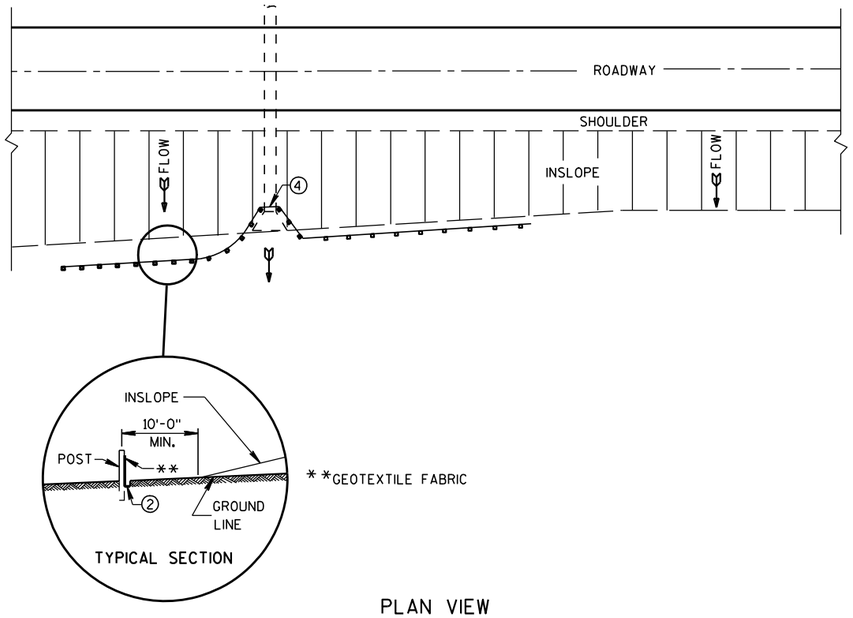
FHWA

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S.D.D. 8 E 8-3

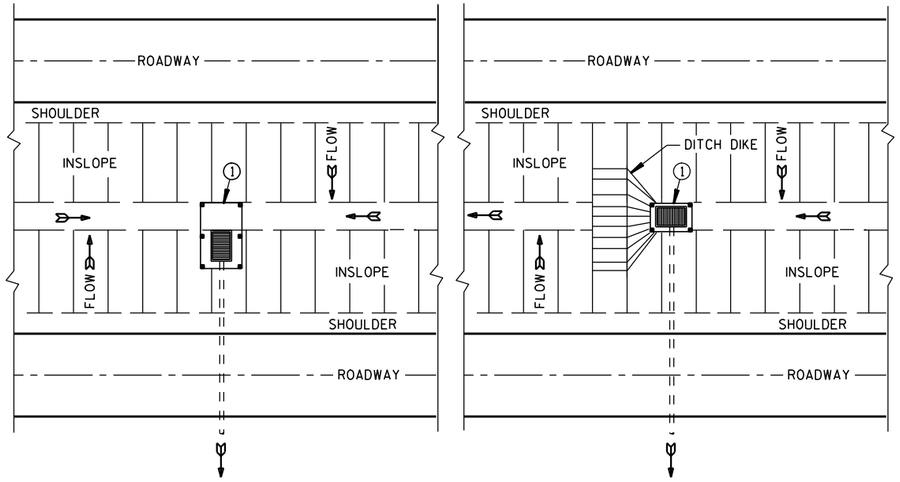
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

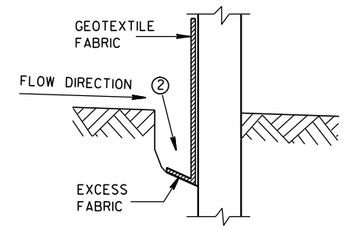
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

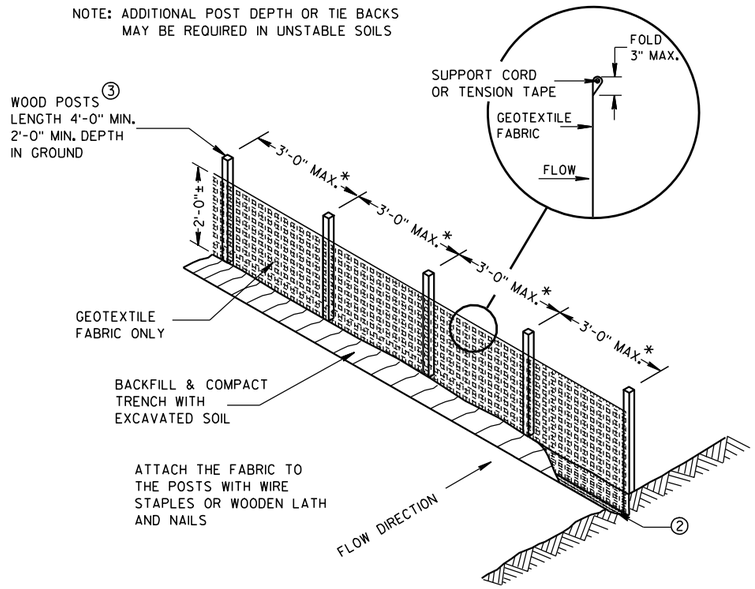
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

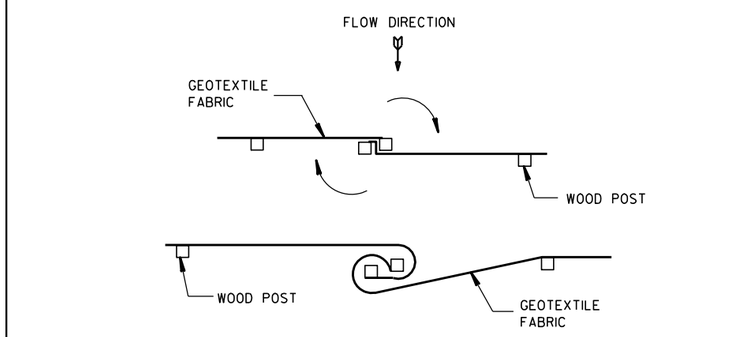
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



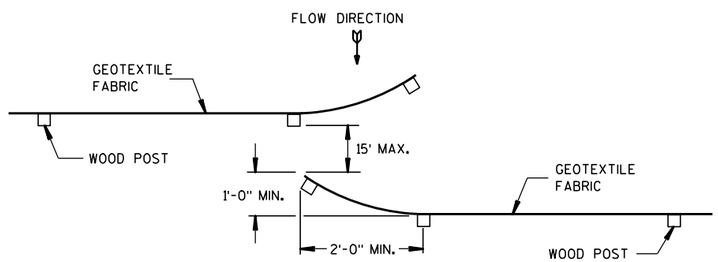
TRENCH DETAIL



SILT FENCE

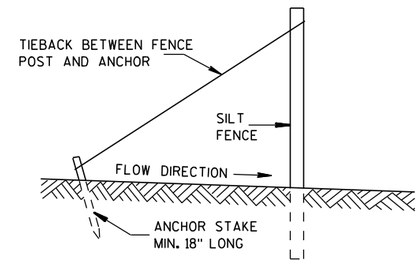


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

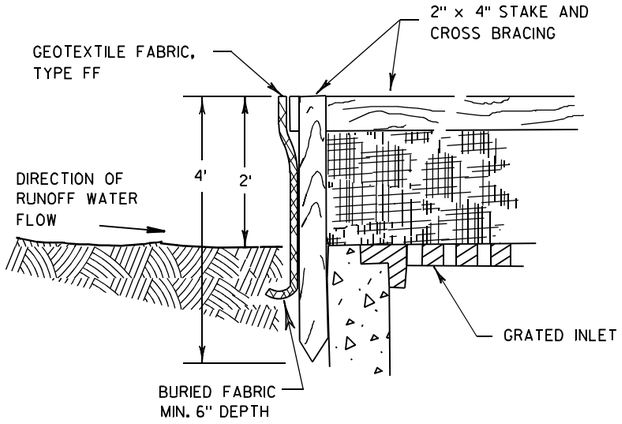
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

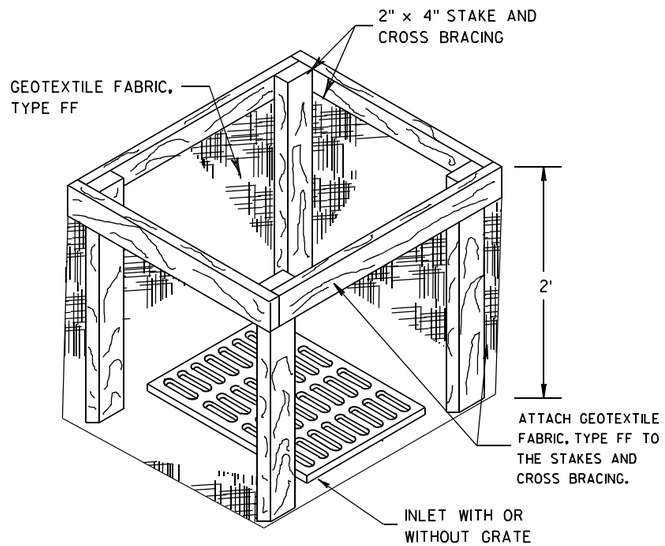
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S.D.D. 8 E 9-6

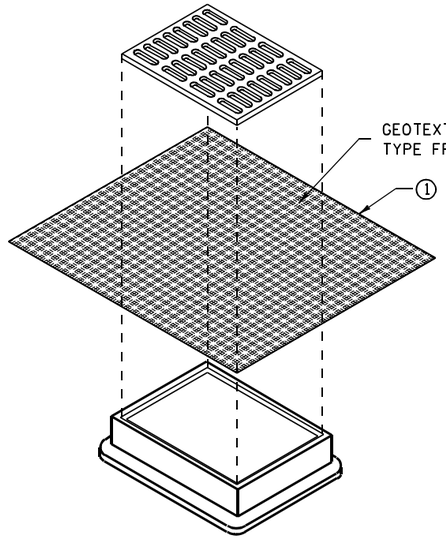
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S.D.D. 8 E 9-6



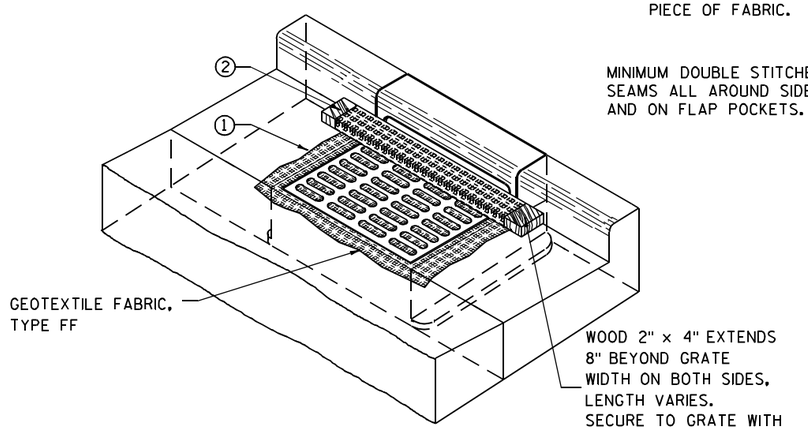


INLET PROTECTION, TYPE A

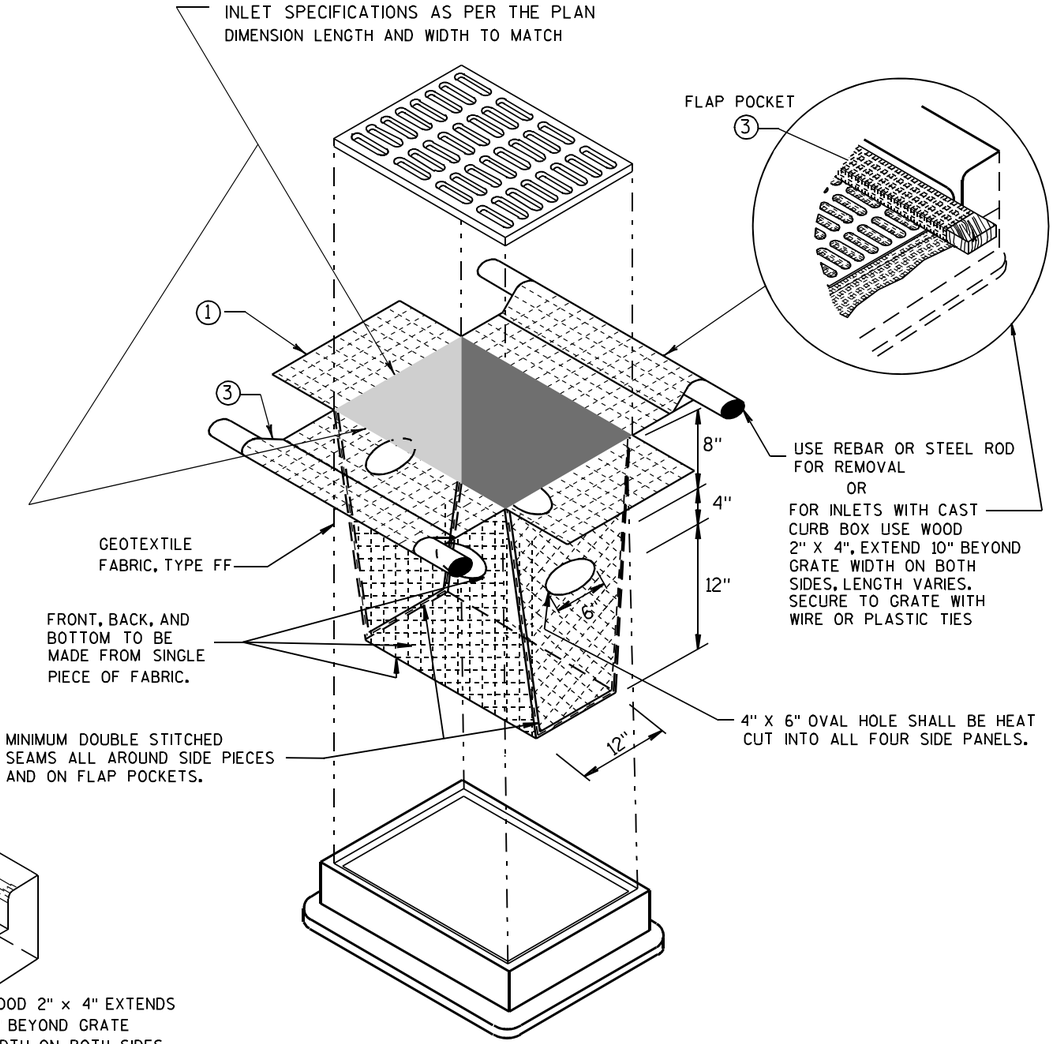


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 8 E 10-2

METAL APRON ENDWALLS

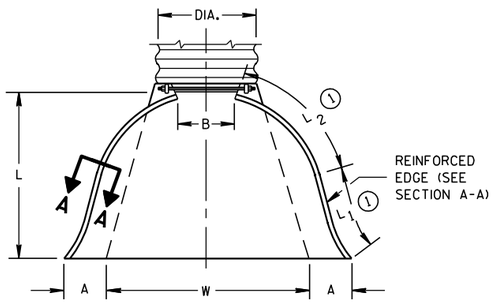
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

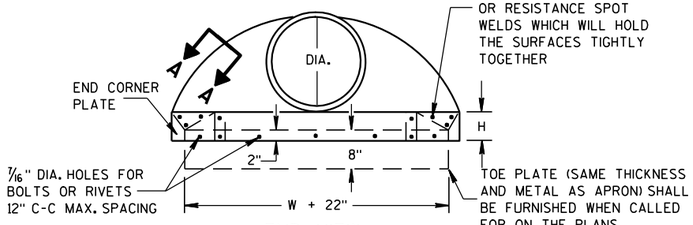
REINFORCED CONCRETE APRON ENDWALLS

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

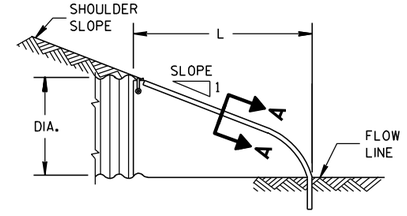
* MINIMUM
** MAXIMUM



PLAN VIEW

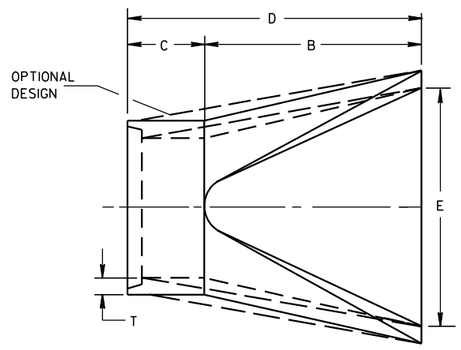


END VIEW

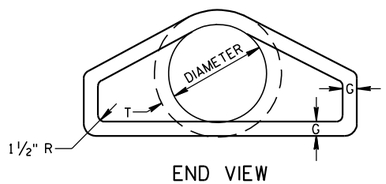


SIDE ELEVATION

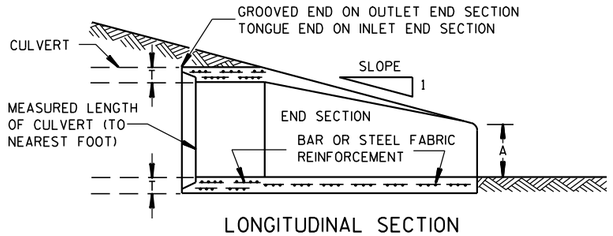
METAL ENDWALLS



PLAN

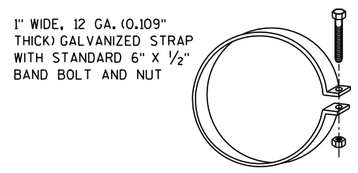


END VIEW



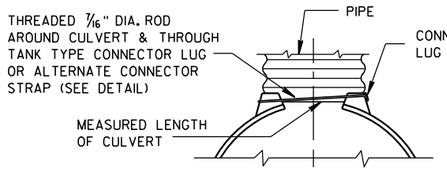
LONGITUDINAL SECTION

CONCRETE ENDWALLS

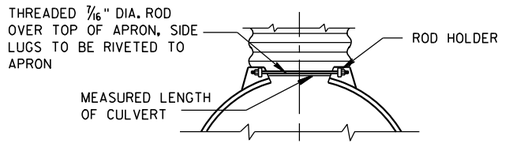


ALTERNATE FOR TYPE 1 CONNECTION

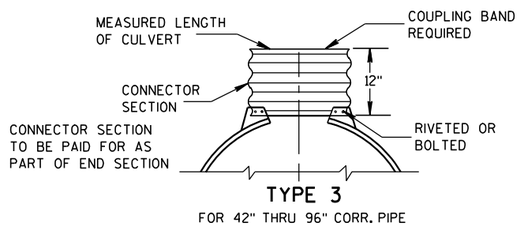
END SECTION CONNECTOR STRAP



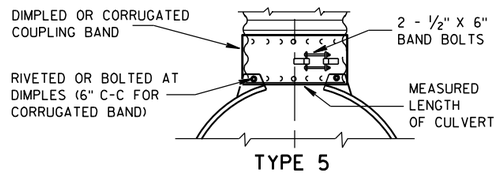
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

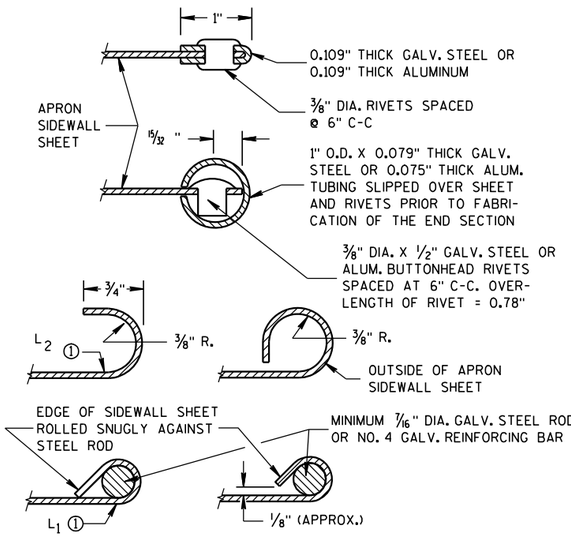
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

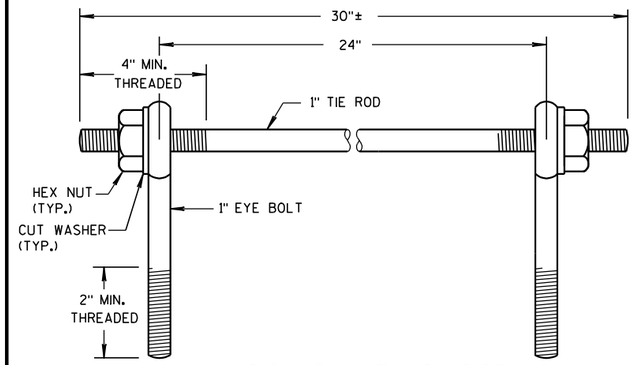
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

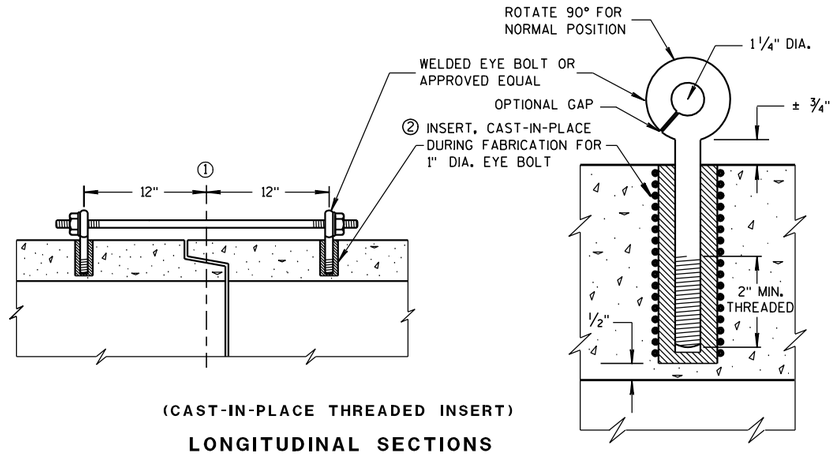
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

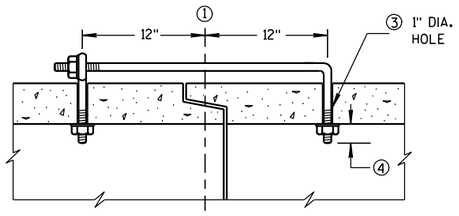
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

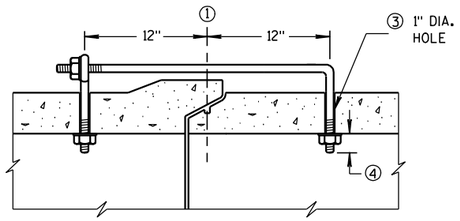
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

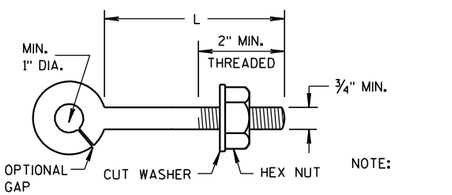


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

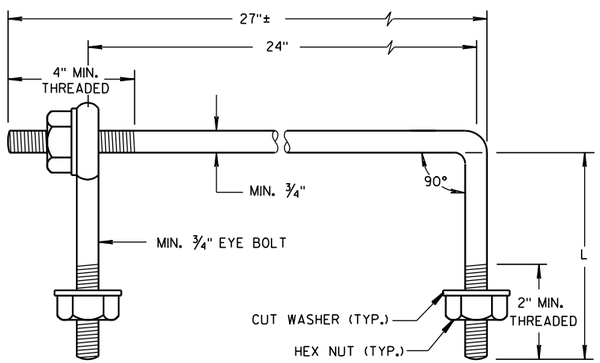
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

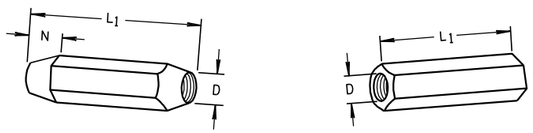
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

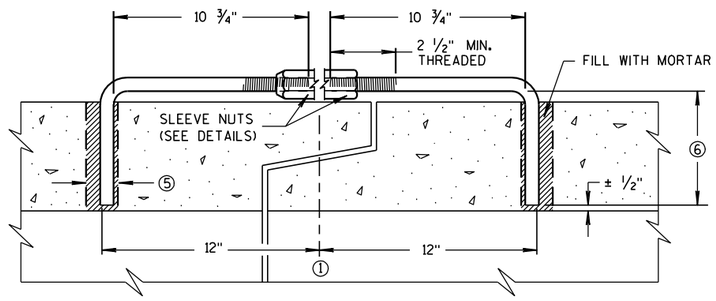
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

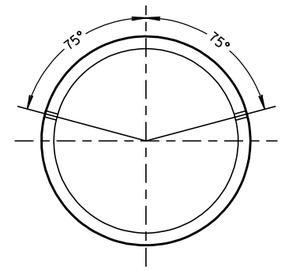
SLEEVE NUTS



LONGITUDINAL SECTION

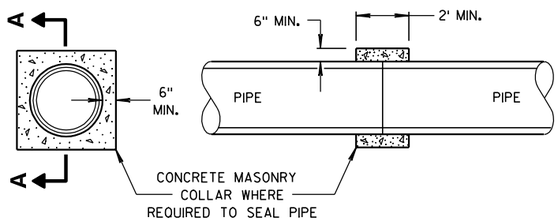
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

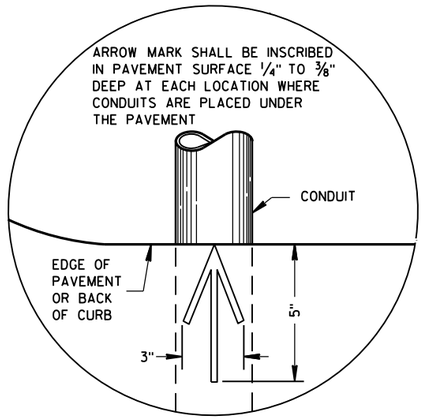
APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
155
FHWA

6

S.D.D. 8 F 4-7

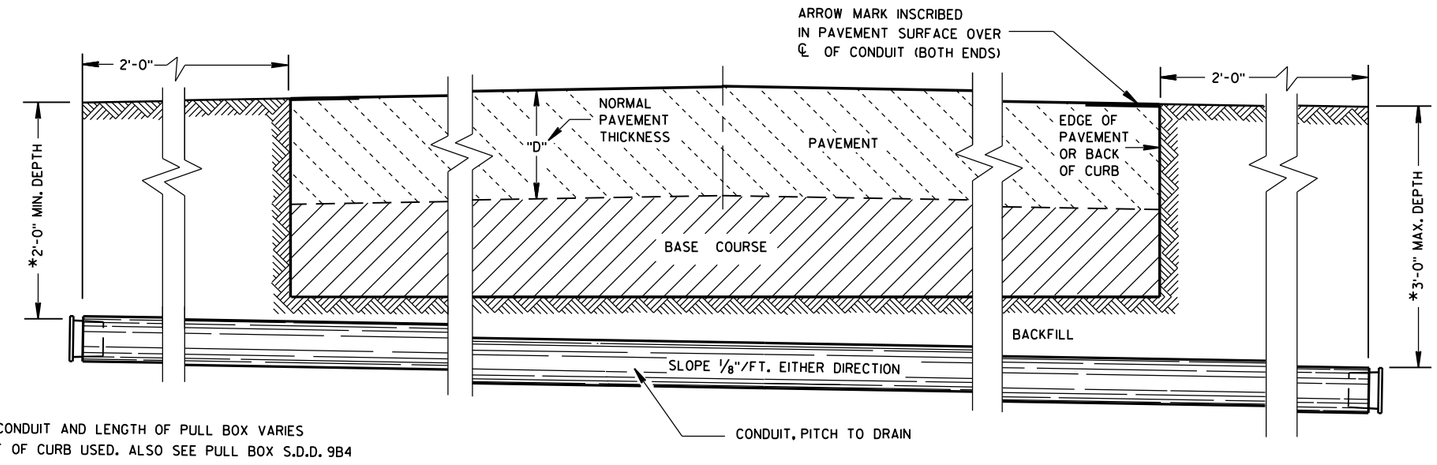
6

S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

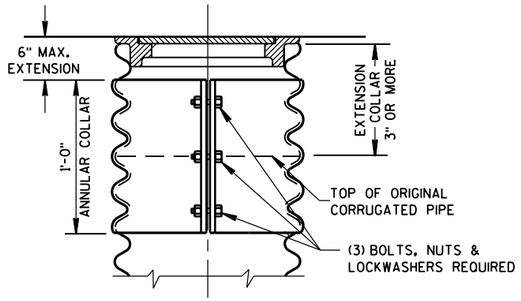
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

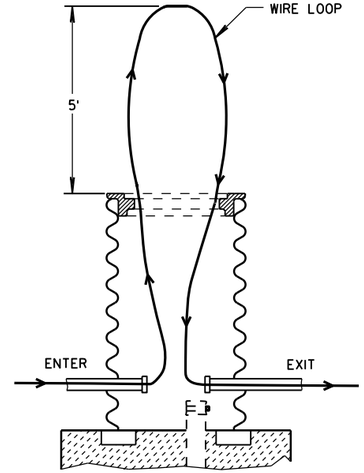
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

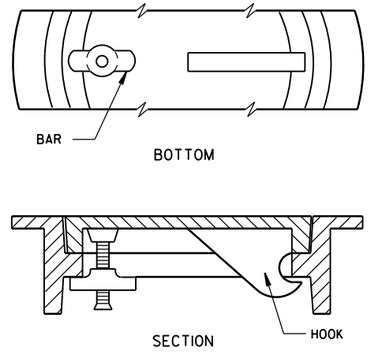
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

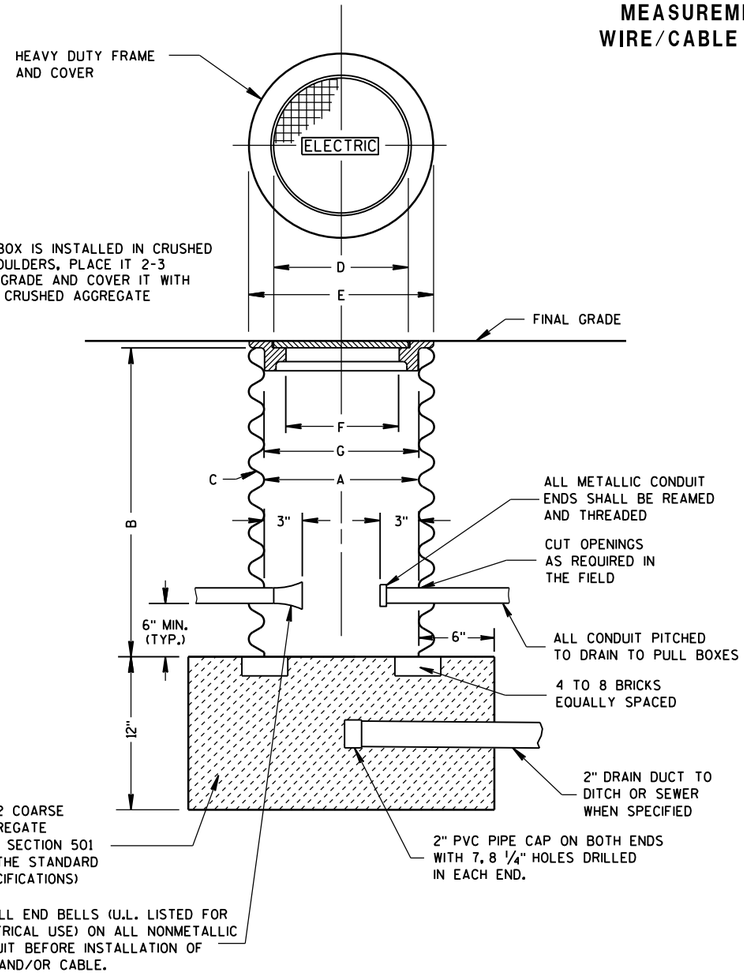


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



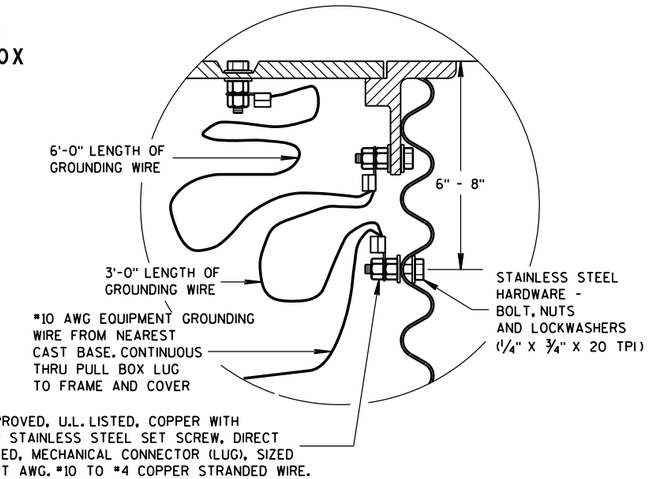
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

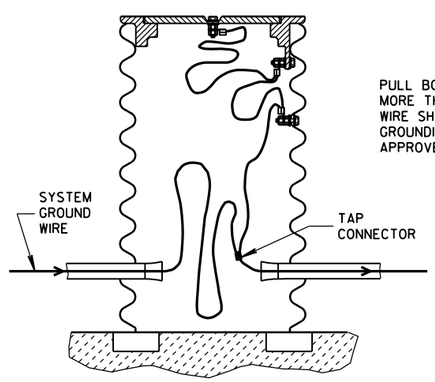


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

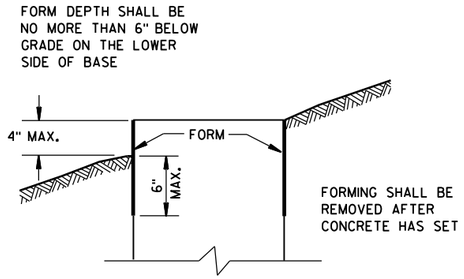
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 4-11



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

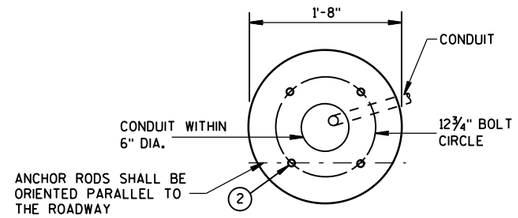
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

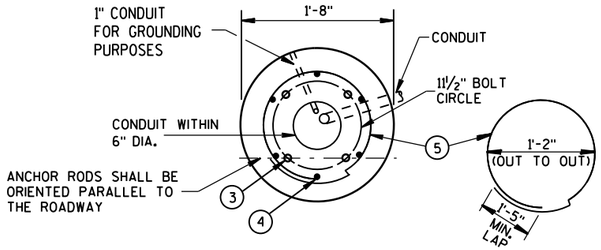
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

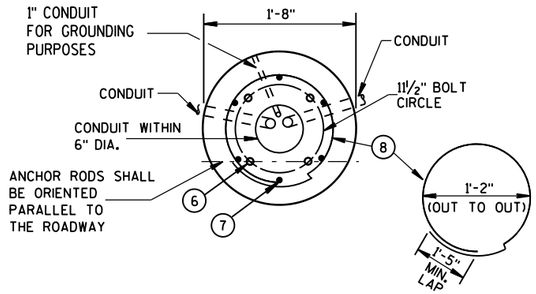
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

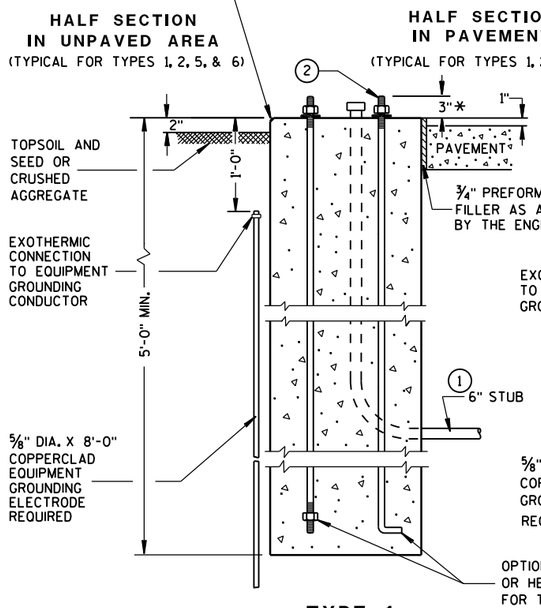
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



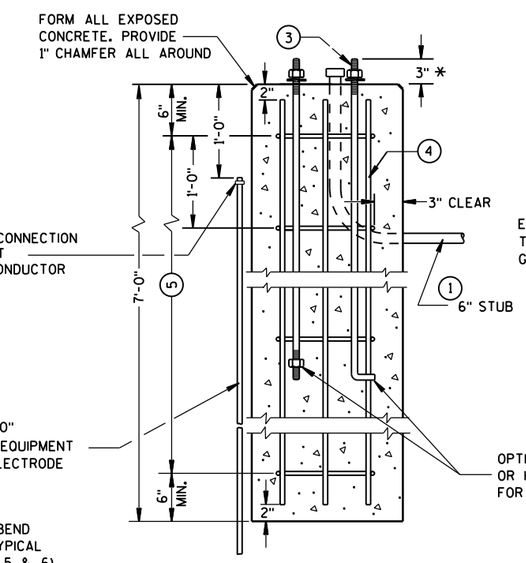


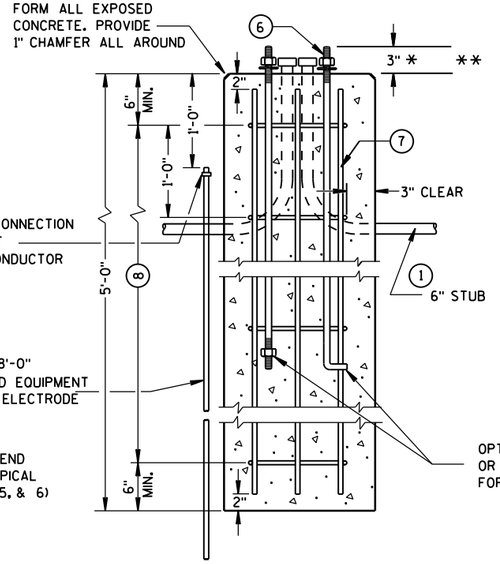


HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5, & 6)



HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5, & 6)





TYPE 1 TYPE 2 TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 158
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GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

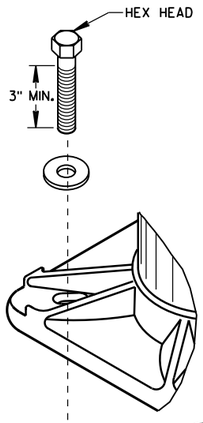
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

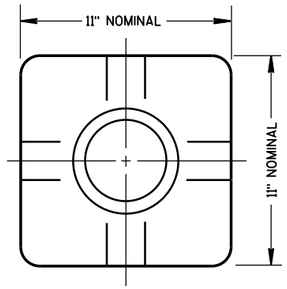
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

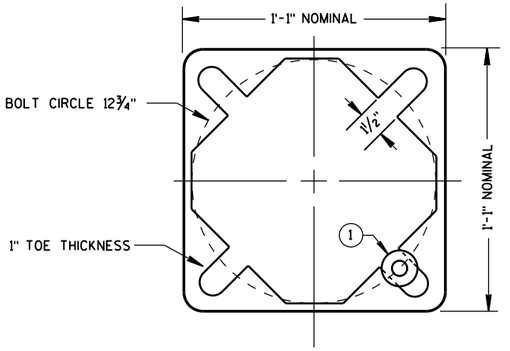
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

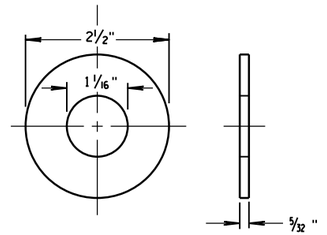




TOP VIEW
(PEDESTAL BASE)

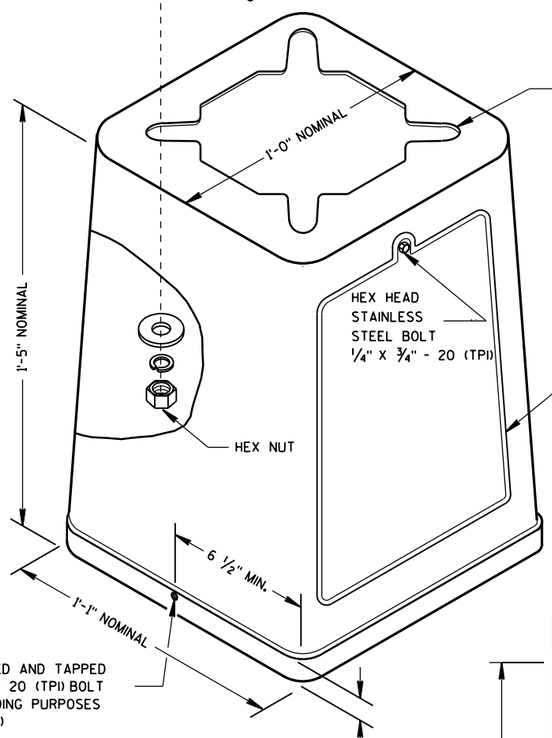


BOTTOM VIEW
(PEDESTAL BASE)

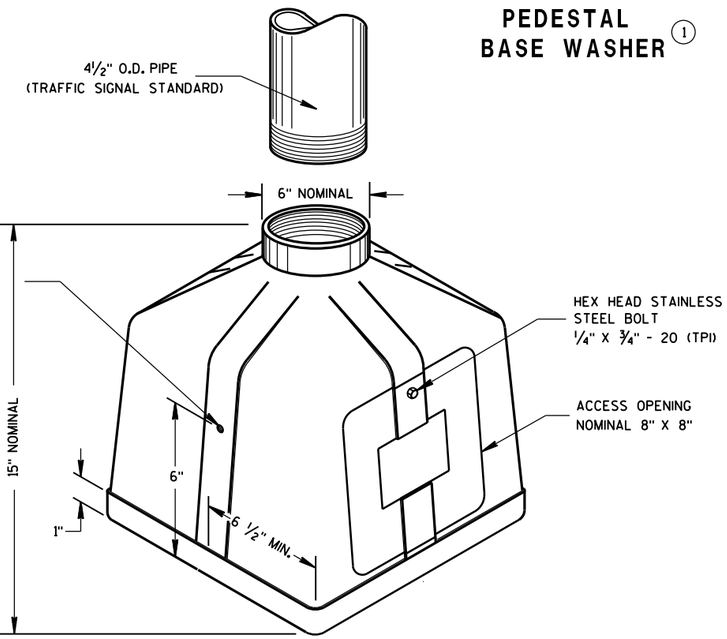


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

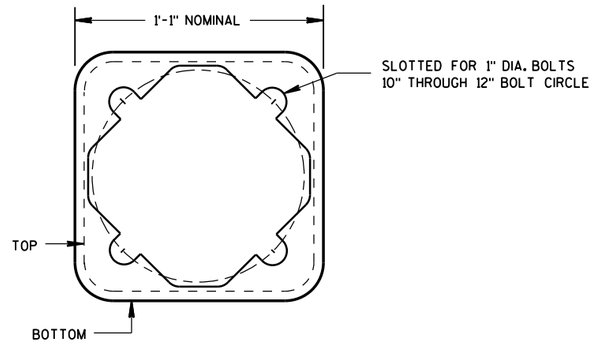


ISOMETRIC VIEW

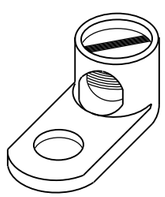


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

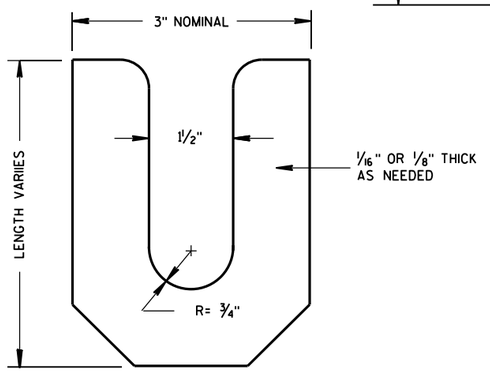


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

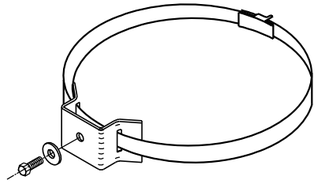
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Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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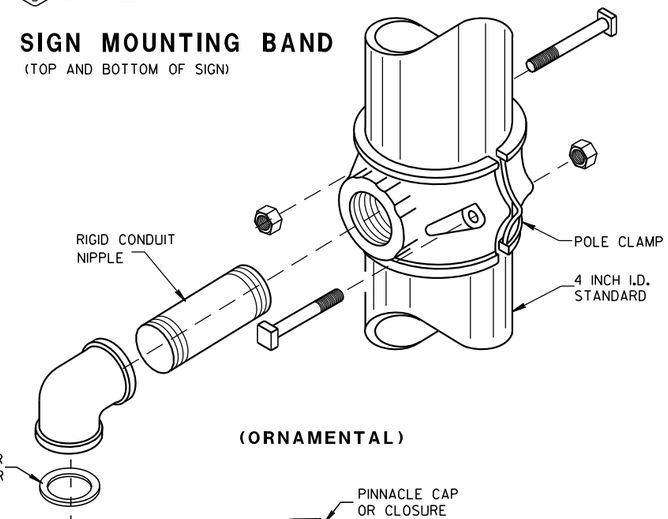
S.D.D. 9 C 3-4

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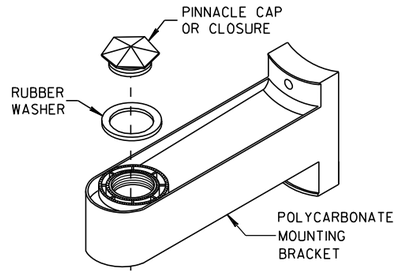
S.D.D. 9 C 3-4



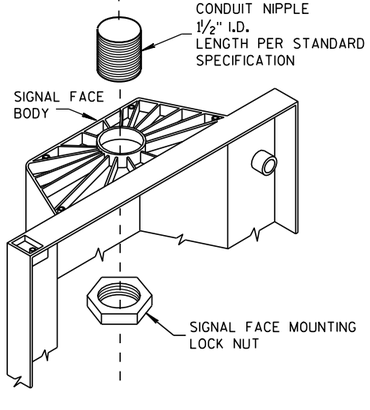
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



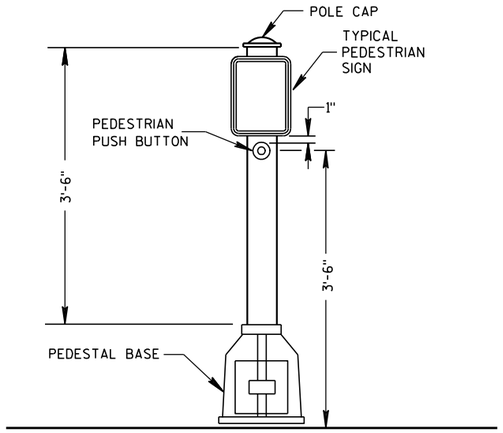
(ORNAMENTAL)



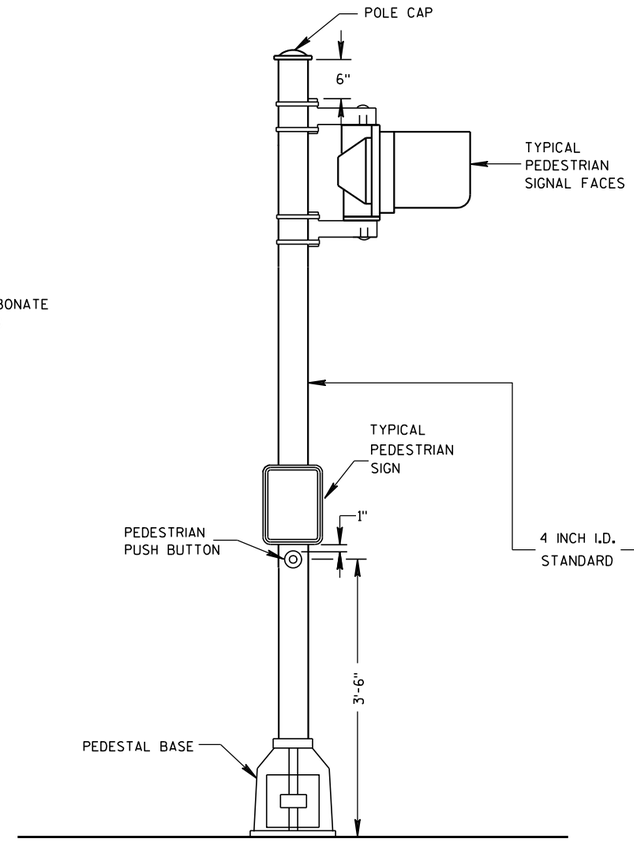
(BANDED)



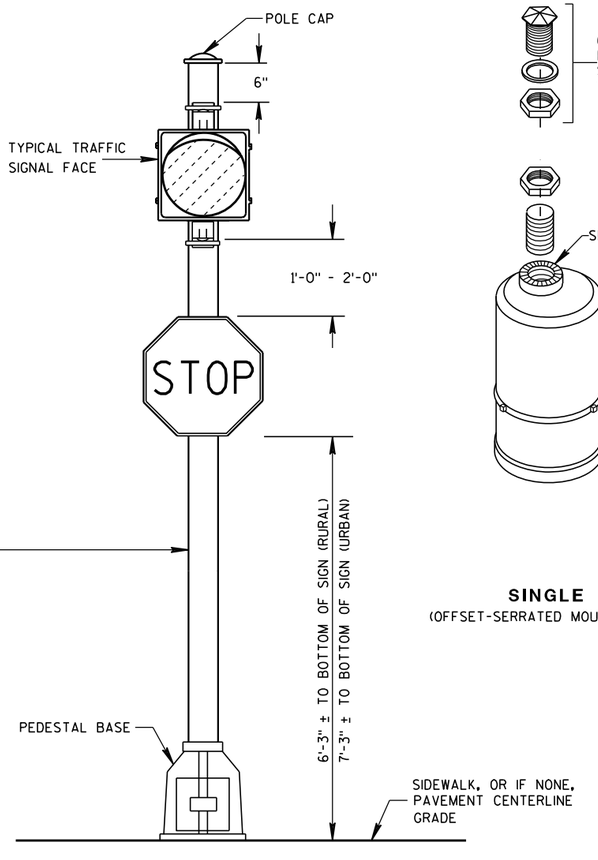
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

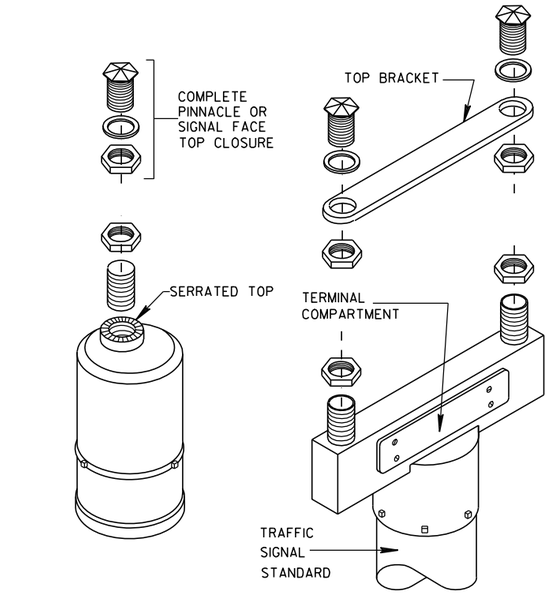
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10
DATE

/S/ John Corbin
STATE ELECTRICAL ENGI

FHWA

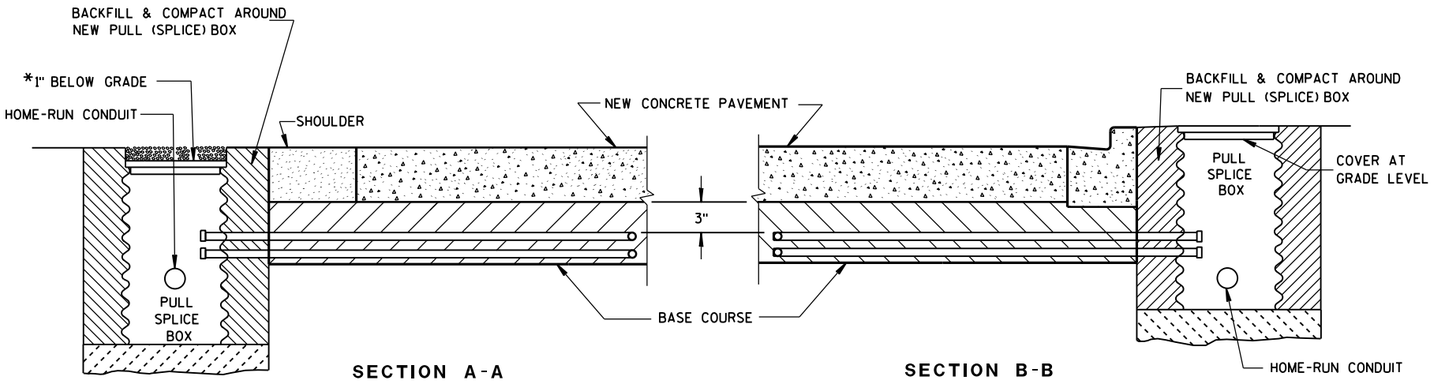
HWYS

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S.D.D. 9 E 7-5

6

S.D.D. 9 E 7-5



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

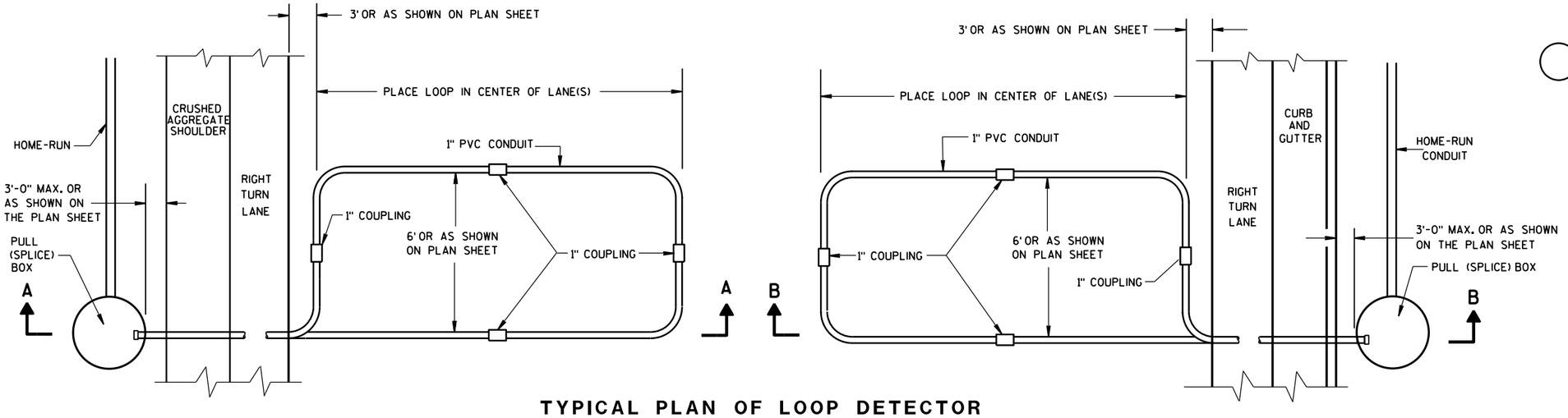
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

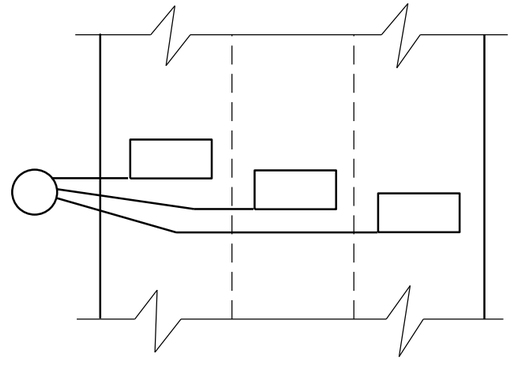
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX

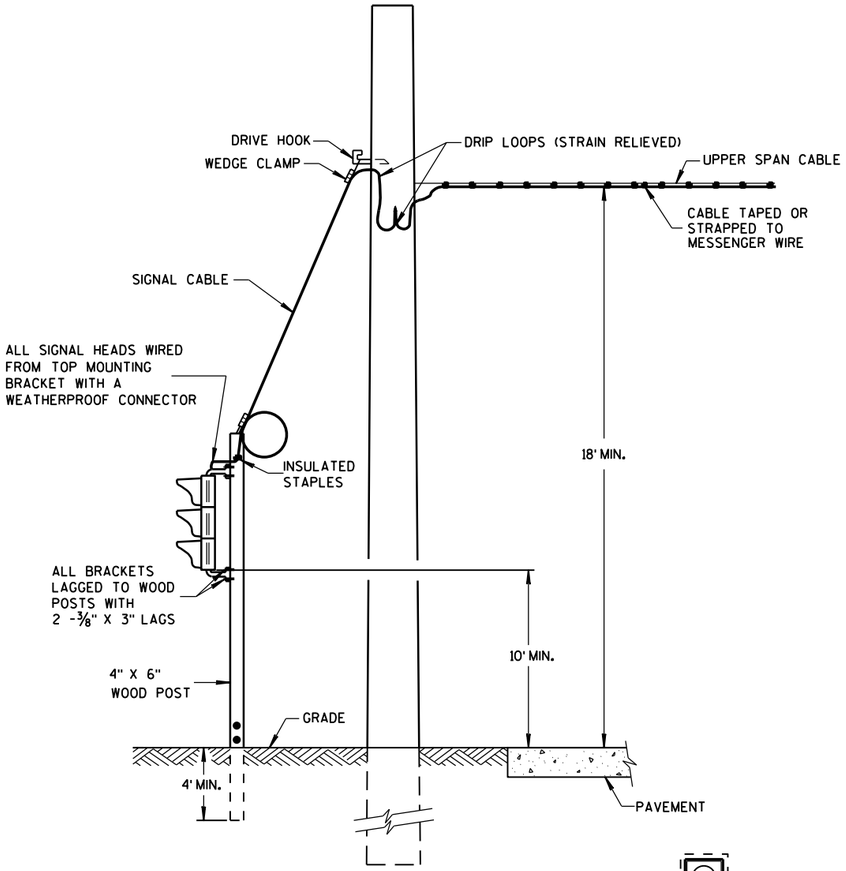


MULTI-LANE INSTALLATION

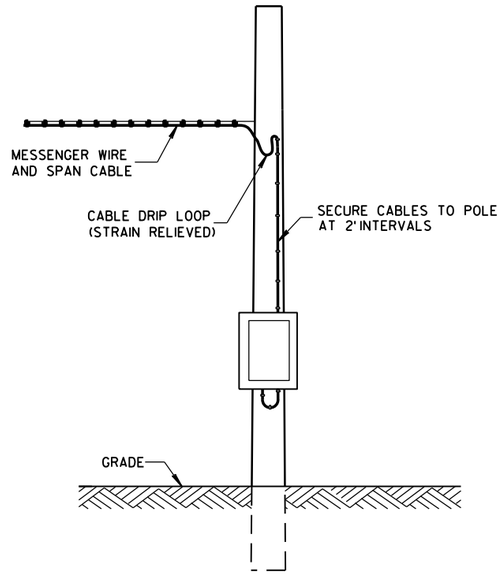
LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA



TYPICAL DROP TO TRAFFIC SIGNAL FACE



POLE MOUNT CABINET INSTALLATION

GENERAL NOTES

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

POLE MOUNTED TRAFFIC SIGNAL CONTROL CABINET MAYBE MOUNTED ON THE SERVICE POLE IF THE ELECTRICAL UTILITY ALLOWS THE INSTALLATION.

WHEN UTILITY POLES ARE USED TO SPAN THE TEMPORARY OVERHEAD CABLE, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER OF THE POLES AND GIVEN TO THE PROJECT MANAGER. ALL PERTINENT UTILITY AND CODE CLEARANCES SHALL BE MAINTAINED.

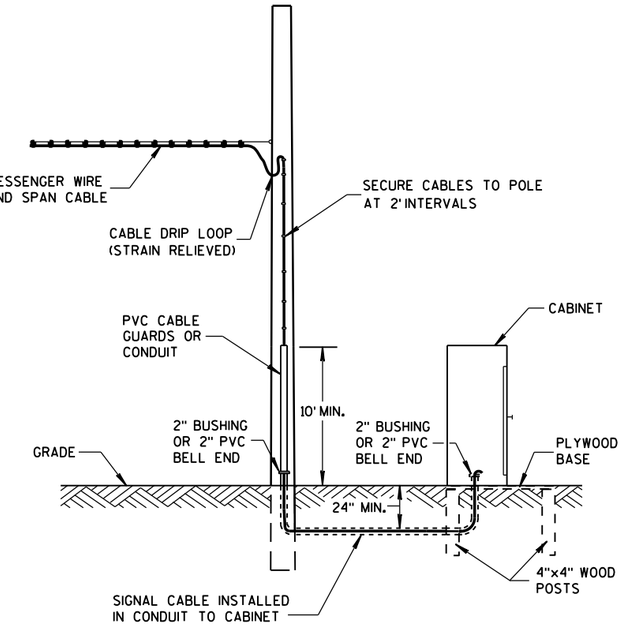
WOOD POLES (NONBREAKAWAY) SHALL BE NO CLOSER TO EDGE OF PAVEMENT THAN OFFSET DISTANCE CHART ALLOWS OR 4 FEET BEHIND PROTECTIVE BARRIER (BEAM GUARD, ETC.).

WOOD POSTS (BREAKAWAY) SHALL BE NO CLOSER THAN 2 FEET OUTSIDE OF SHOULDER.

VERTICAL CLEARANCE ETC. PER NEC.

TRAFFIC SIGNAL FACES SHALL BE TYPICALLY PLACED 12 FEET FROM EDGE OF PAVEMENT.

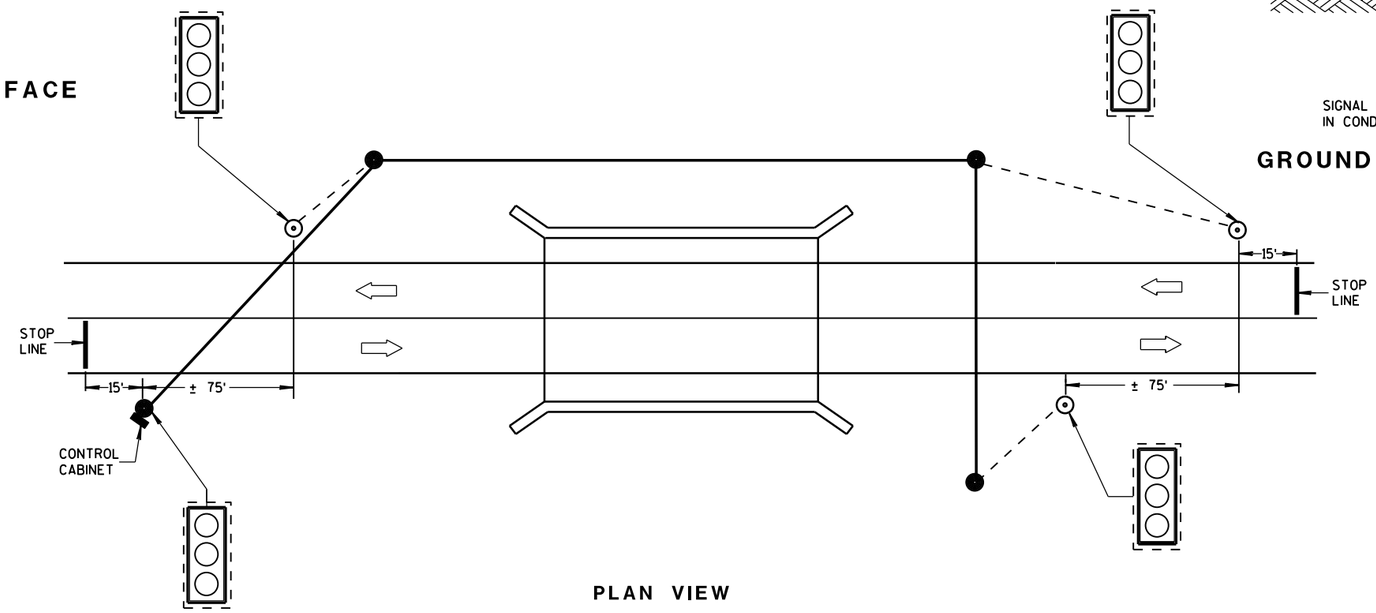
EACH TRAFFIC SIGNAL FACE SHALL HAVE A BACKPLATE.



GROUND MOUNT CABINET INSTALLATION

OFFSET DISTANCES FOR TEMPORARY NON-BREAKAWAY POLES	
SPEED LIMIT	OFFSET DISTANCE**
GREATER THAN 45 MPH	18 FT
45 MPH OR LESS	12 FT
45 MPH OR LESS W/ CURBS	2 FT

**NOTE: OFFSET MEASURED FROM OUTER EDGE OF OUTSIDE THRU LANE.



PLAN VIEW

TYPICAL BRIDGE TEMPORARY TRAFFIC SIGNAL LOCATION

LEGEND

- WOOD POLE (NON-BREAKAWAY)
- WOOD POST (BREAKAWAY)
- SIGNAL CABLE
- SIGNAL CABLE W/MESSENGER
- LED TRAFFIC SIGNAL FACE WITH BACKPLATE (3-12")
- DIRECTION OF TRAFFIC

MINIMUM POLE LENGTHS	CLASS	MINIMUM BURIAL DEPTHS
25 FEET	V	5 FEET
30 FEET	V	6 FEET
35 FEET	IV	7 FEET
40 FEET	IV	8 FEET
45 FEET	IV	9 FEET

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL

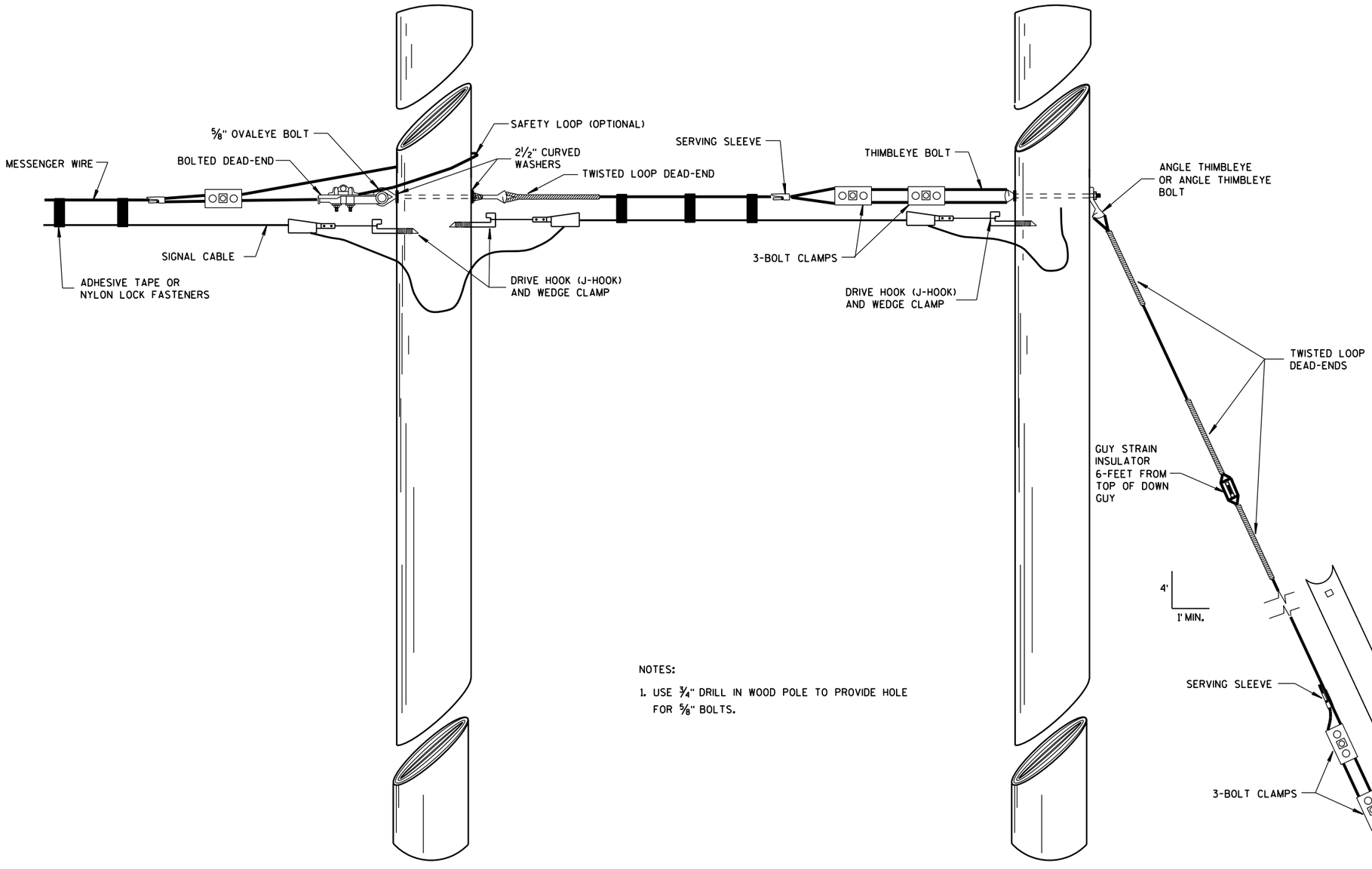
FHWA

6

S.D.D. 9 G 2-4a

6

S.D.D. 9 G 2-4a



SPAN WIRE POLE

GUY POLE

NOTES:

1. USE 3/4" DRILL IN WOOD POLE TO PROVIDE HOLE FOR 5/8" BOLTS.

TYPICAL DEAD-ENDINGS OR GUYING

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

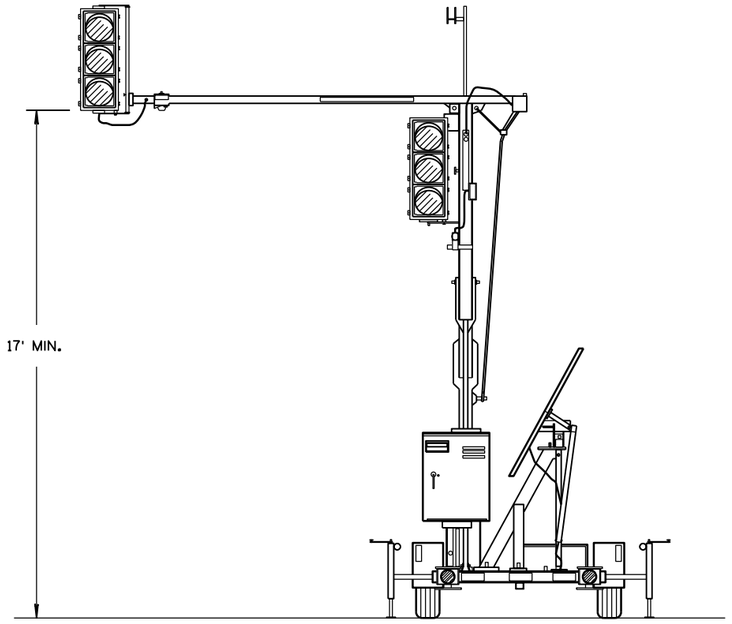
Sept., 2016
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

6

S.D.D. 9 G 2-4b

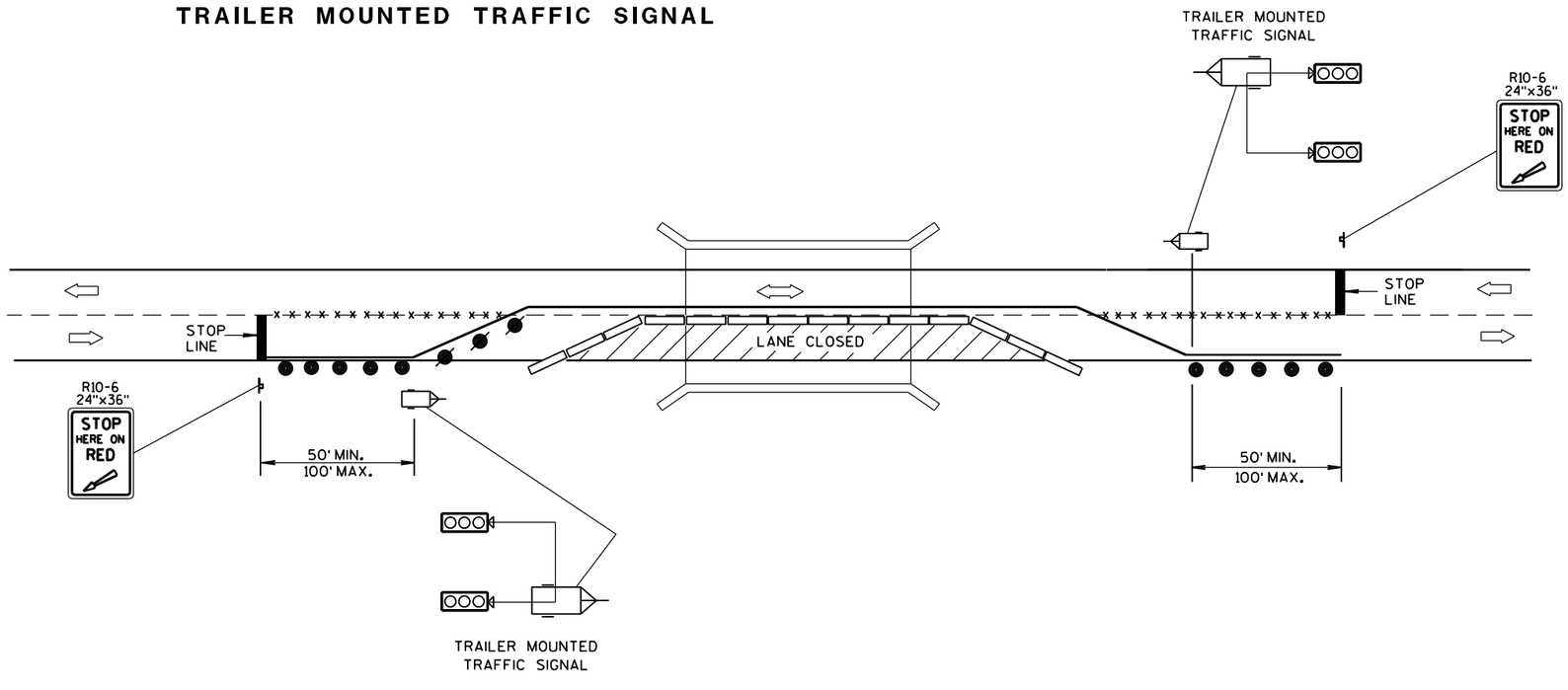


TRAILER MOUNTED TRAFFIC SIGNAL

GENERAL NOTES

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

SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO STANDARD DETAIL DRAWING 15 D 33.



TYPICAL TRAILER MOUNTED TRAFFIC SIGNAL LOCATION

LEGEND

- POST MOUNTED SIGN
- REMOVING PAVEMENT MARKING
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- TEMPORARY PRECAST CONCRETE BARRIER
- TRAILER MOUNTED TRAFFIC SIGNAL
- DIRECTION OF TRAFFIC FLOW

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

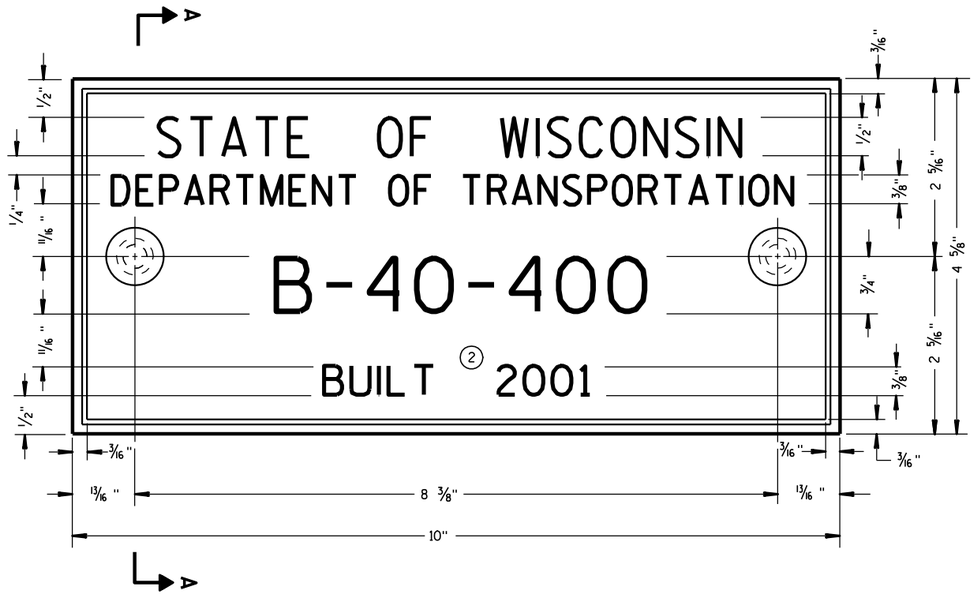
FHWA

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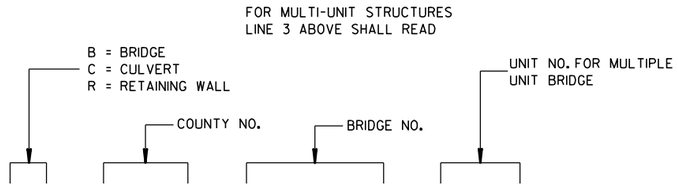
S.D.D. 9 G 2-4c

6

S.D.D. 9 G 2-4c



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

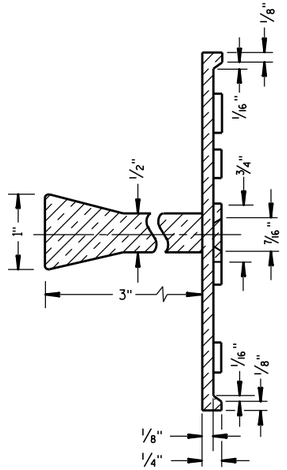
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

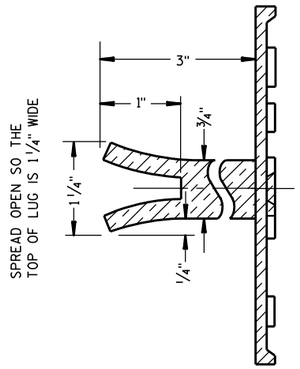
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

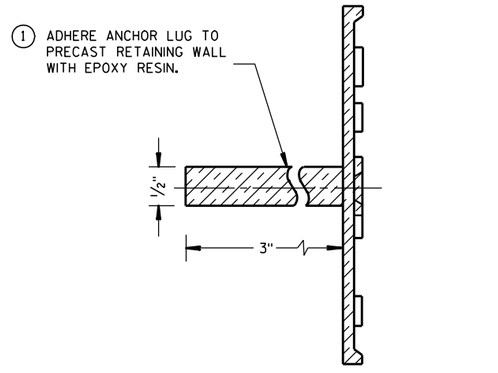
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

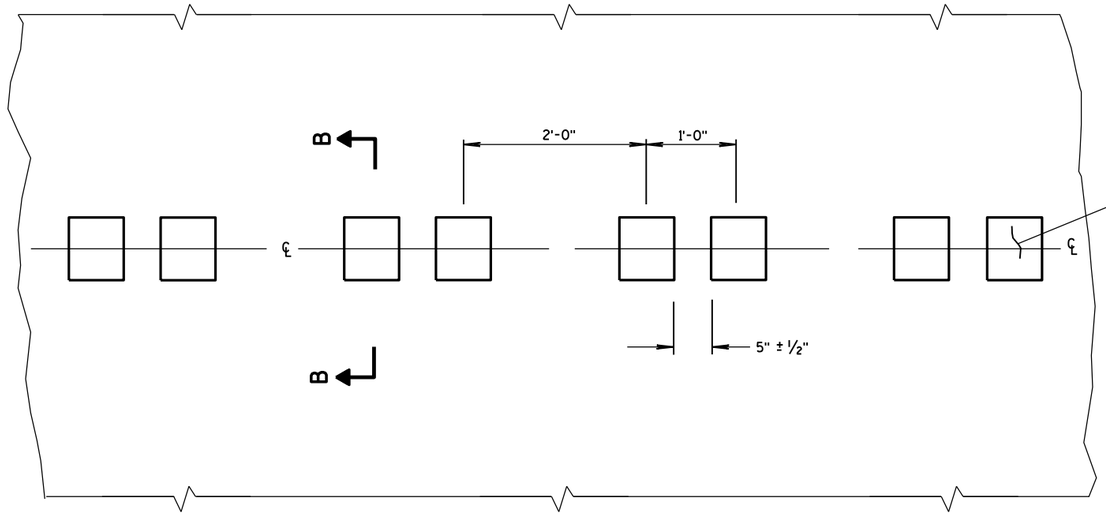
3/26/10 DATE

/S/ Scot Beck-- CHIEF STRUCTURAL DEVELOP ENGINEER

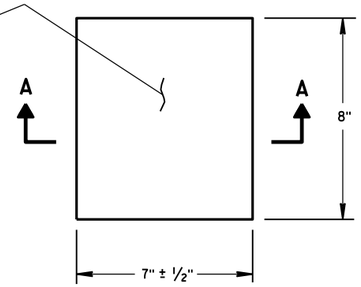
FHWA

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S.D.D. 12 A 3-10



PLAN VIEW
CENTER LINE WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

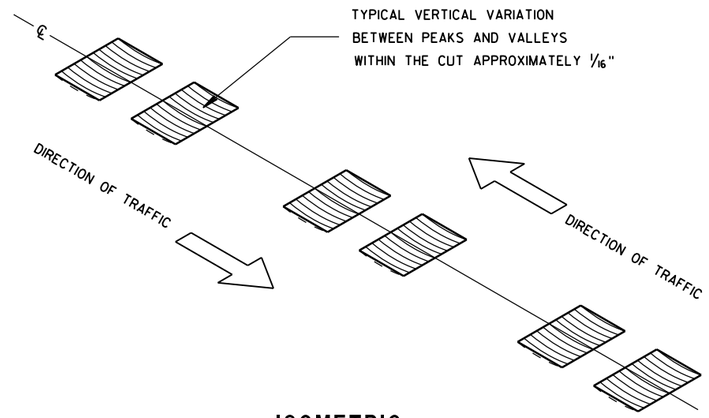
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

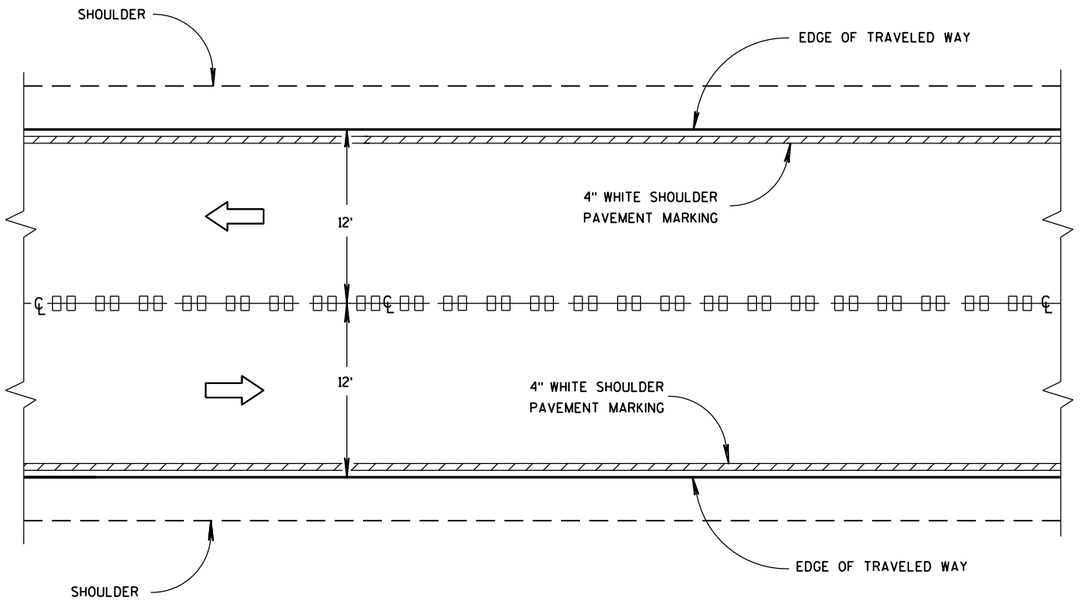
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

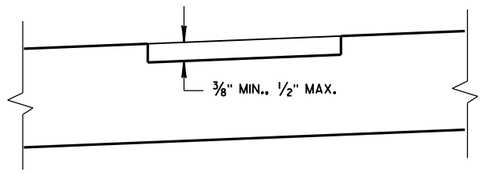
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



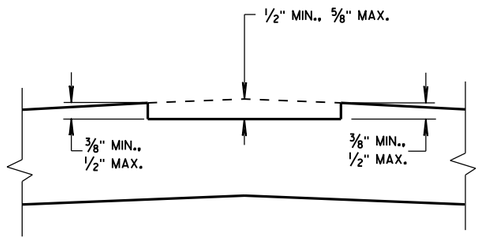
ISOMETRIC



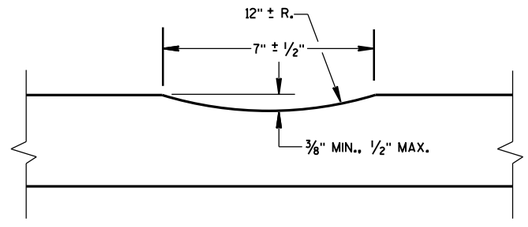
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

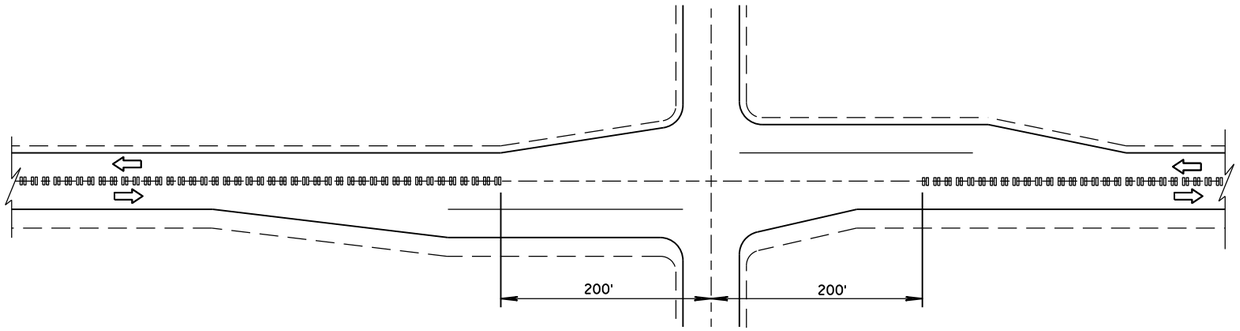
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

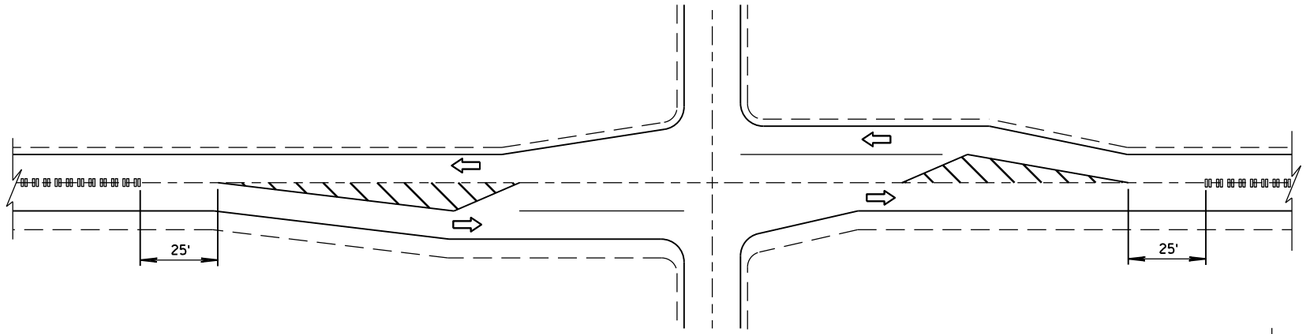
S.D.D. 13 A 11-2a

6

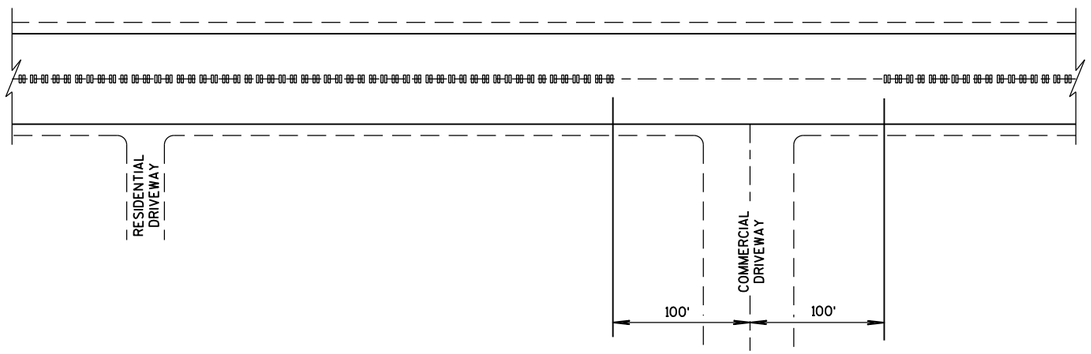
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

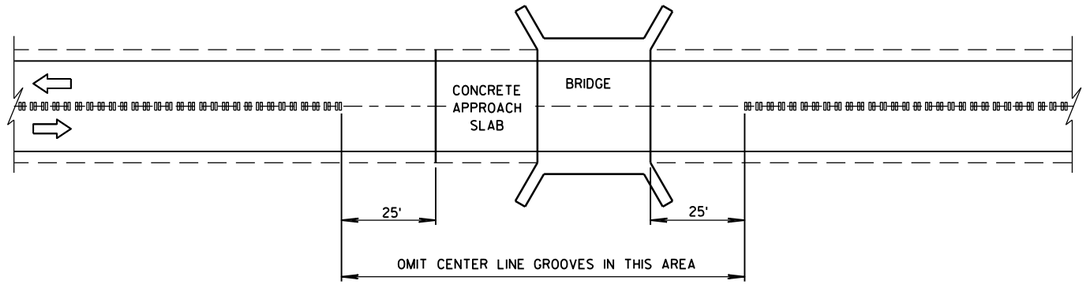


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

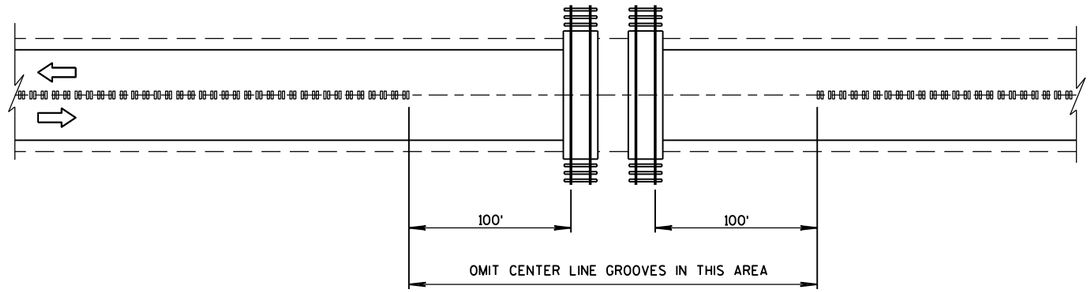


CENTER LINE GROOVES AT DRIVEWAYS (1)

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



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

FHWA

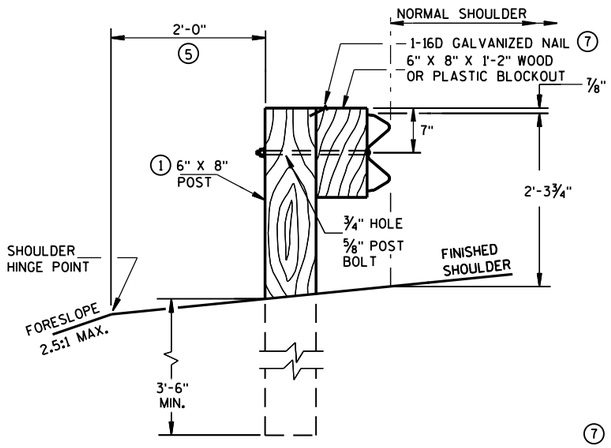
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S.D.D. 13 A 11-2b

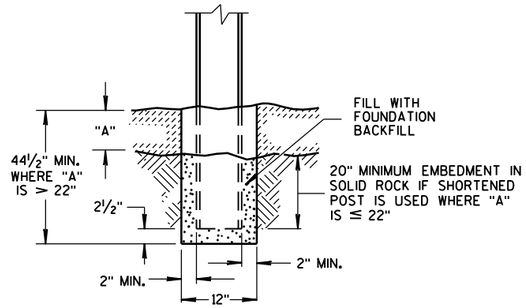
GENERAL NOTES

1. W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.
   DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.
2. USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.
3. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
4. USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.
5. IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).
6. IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.
7. WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

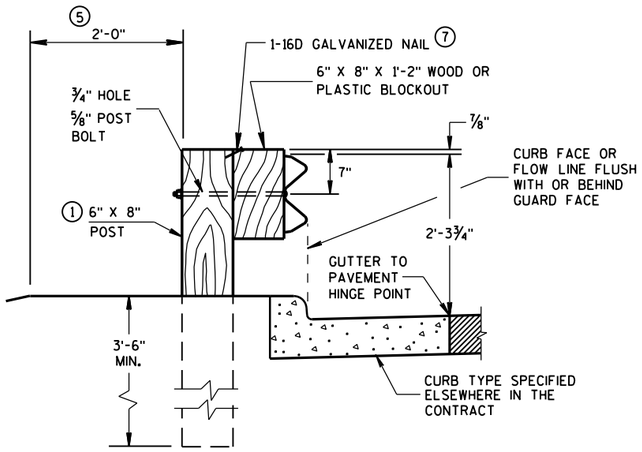
INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



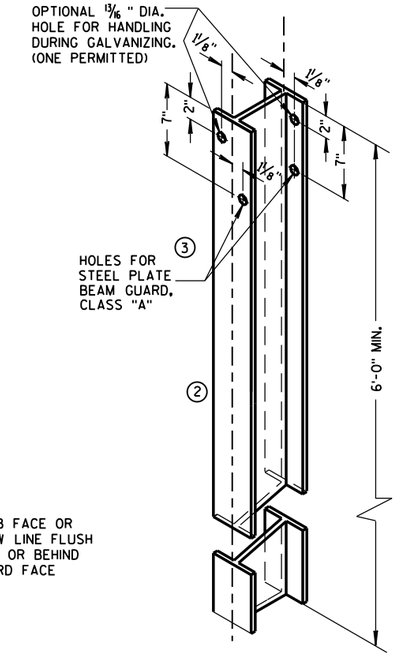
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



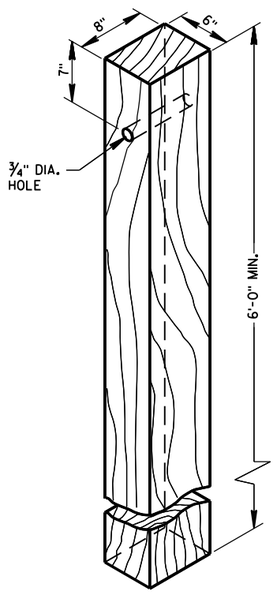
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ⑥



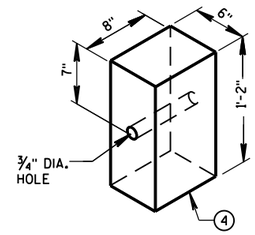
END VIEW
LOCATED ALONG A CURBED ROADWAY



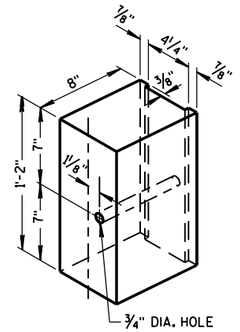
STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) ①
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



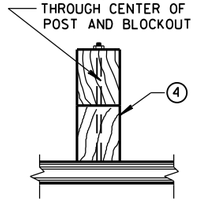
WOOD POST
(6"X8") NOMINAL



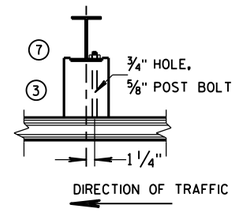
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



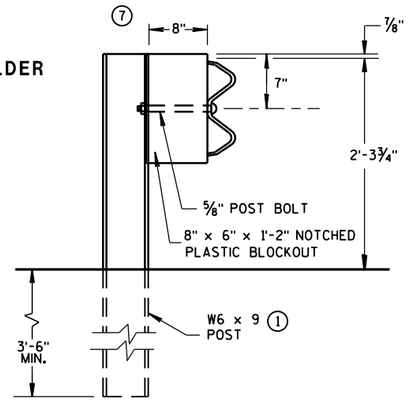
TYPICAL NOTCHED ①
PLASTIC BLOCKOUT
FOR STEEL POSTS



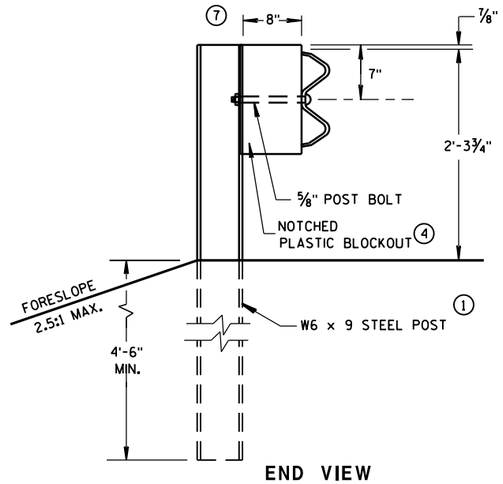
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



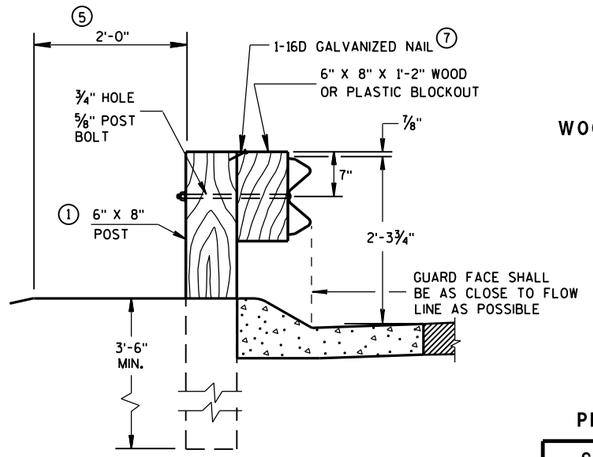
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



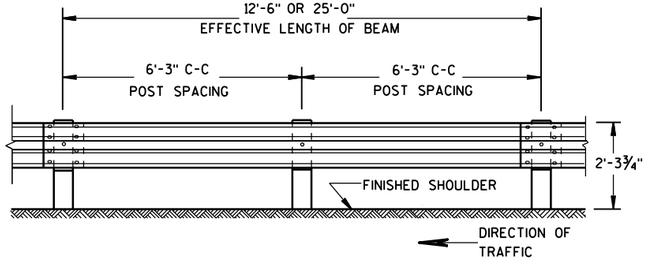
END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

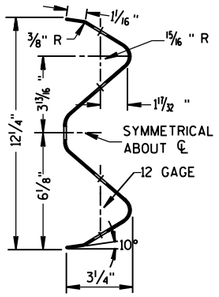
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 15-10a

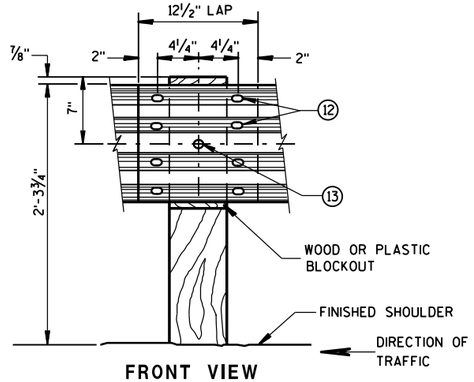


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

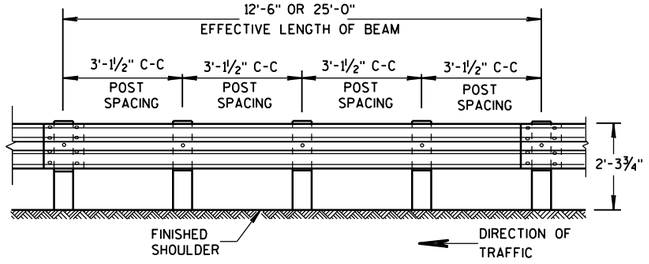
BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

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

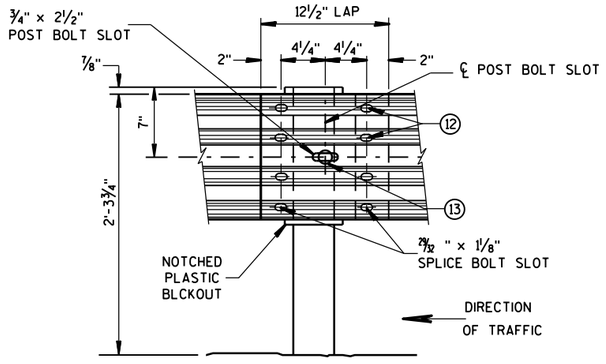
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

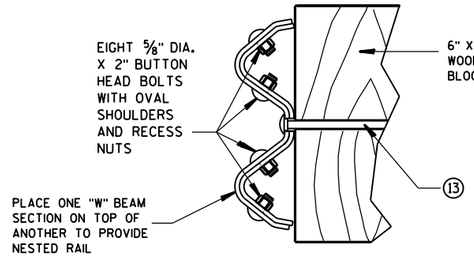
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

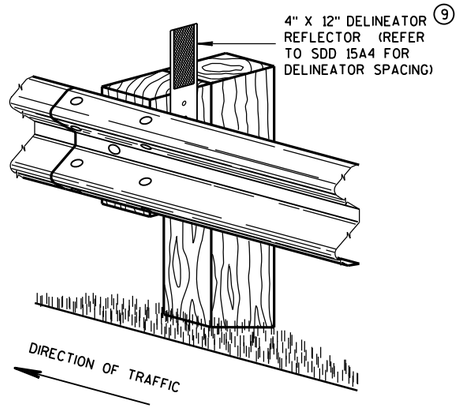
BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)



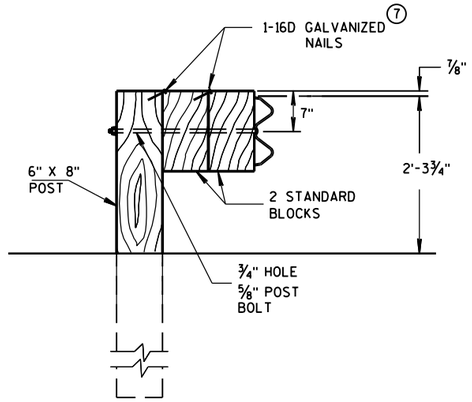
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

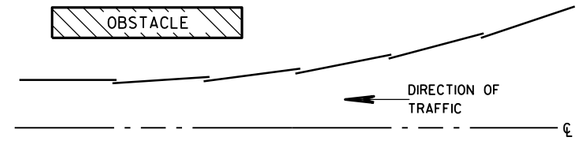
6

S.D.D. 14 B 15-10b

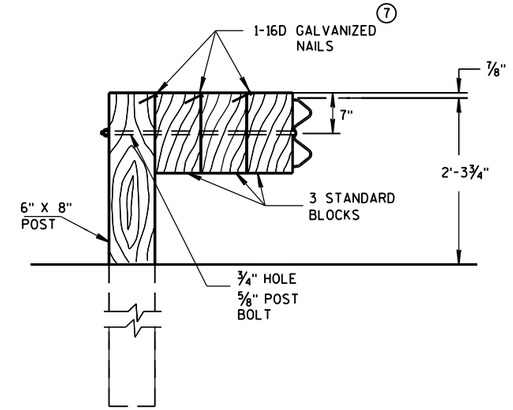


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

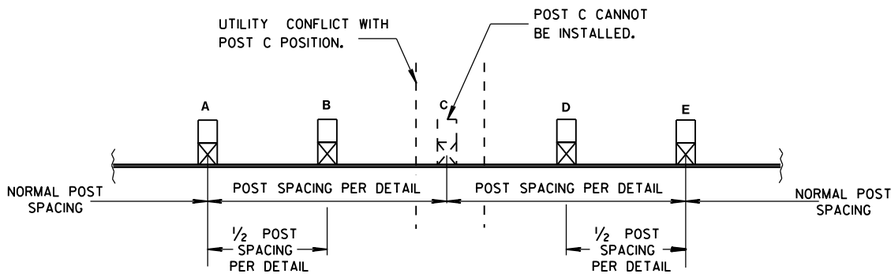


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

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

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVI NT
FHWA

6

S.D.D. 14 B 15-10c

BILL OF MATERIALS

NOTE NO.	DESCRIPTION
①	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	STEEL TUBE TS 8" X 6" X 0.188", 6'-0"
④	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	BEARING PLATE
⑧	BCT CABLE ASSEMBLY
⑨	CABLE ANCHOR BOX
⑩	STRUT & YOKE
⑪	STEEL PLATE BEAM, END PANEL 12 GA.
⑫	STEEL PLATE BEAM: 12 GA. 13'-6½"
⑬	IMPACT HEAD
⑭	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS.

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

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

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 AND 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

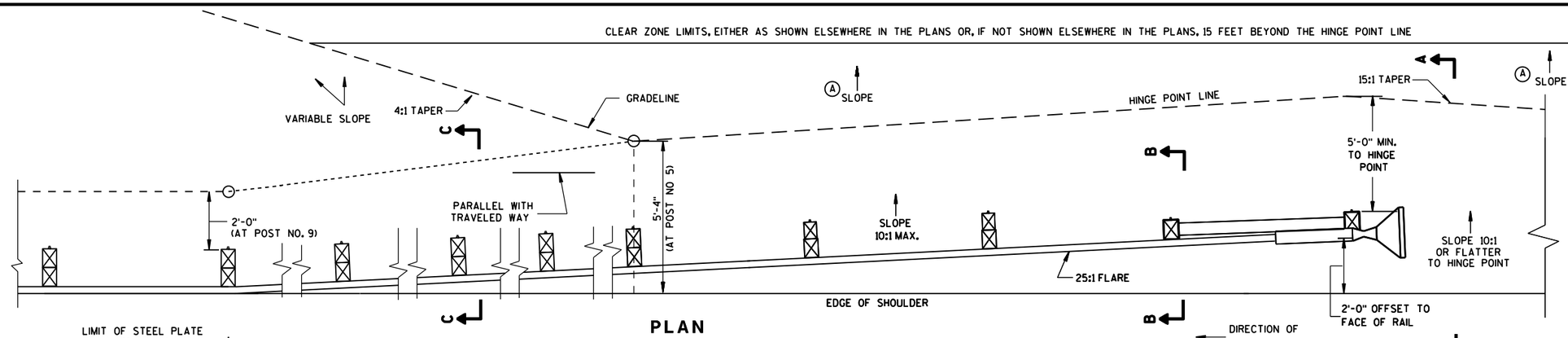
(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 3 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

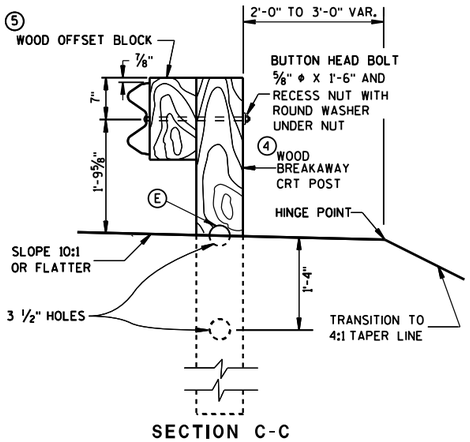
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

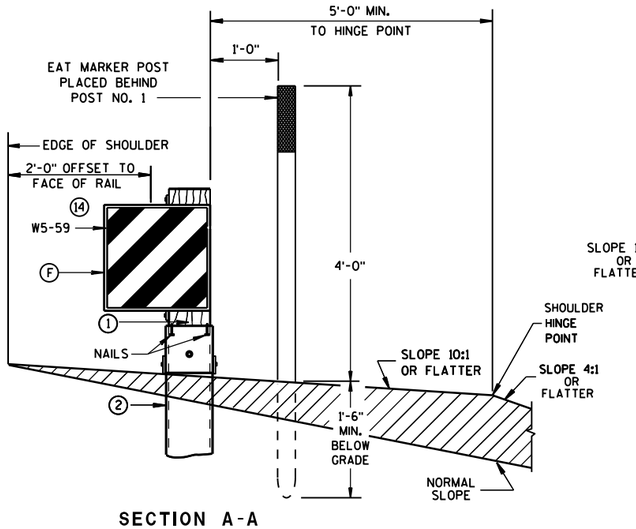
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

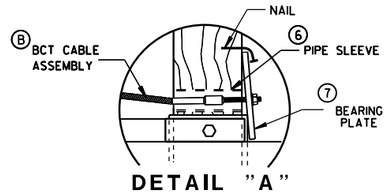




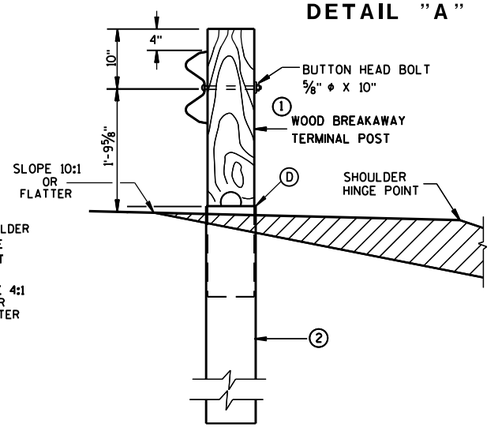
SECTION C-C
TYPICAL AT POST NOS. 6, 8



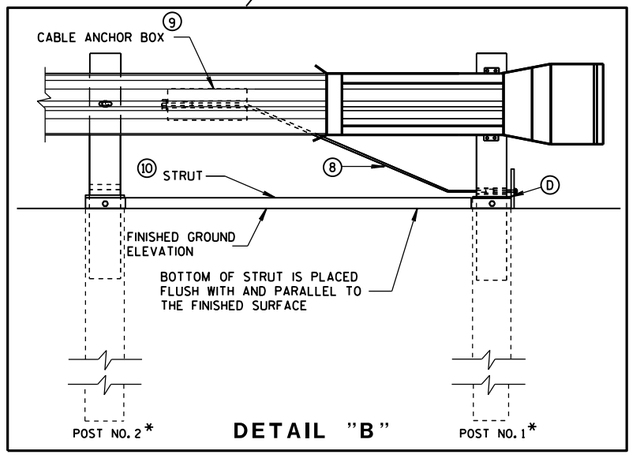
SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



SECTION B-B
TYPICAL AT POST NO. 2*



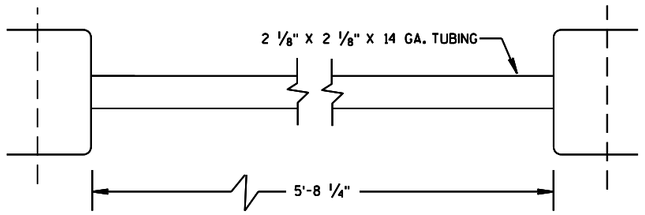
DETAIL "B"

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

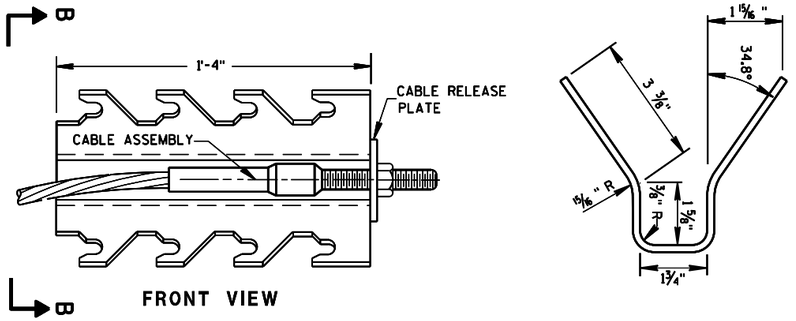
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

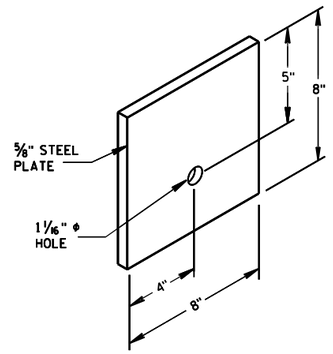
S.D.D. 14 B 24-9a



⑩ STRUT DETAIL



⑨ CABLE ANCHOR BOX



⑦ STEEL BEARING PLATE

6

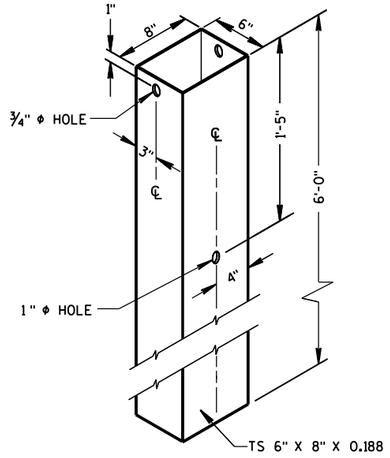
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S.D.D. 14 B 24-9b

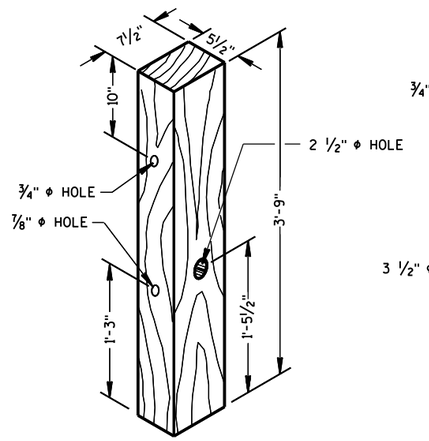
S.D.D. 14 B 24-9b

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

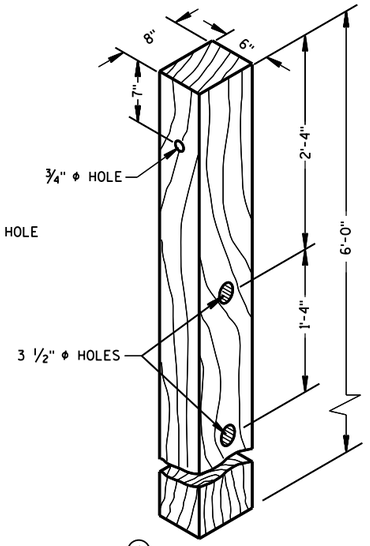
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



② 72" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST

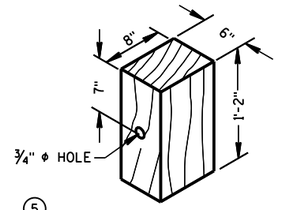


④ CRT POST
(POSTS NO'S 5-8)

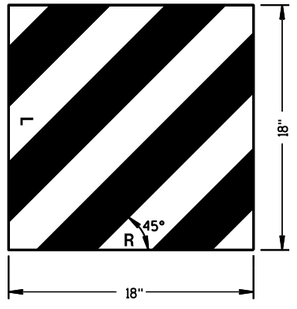
WOOD BREAKAWAY POSTS

GENERAL NOTES

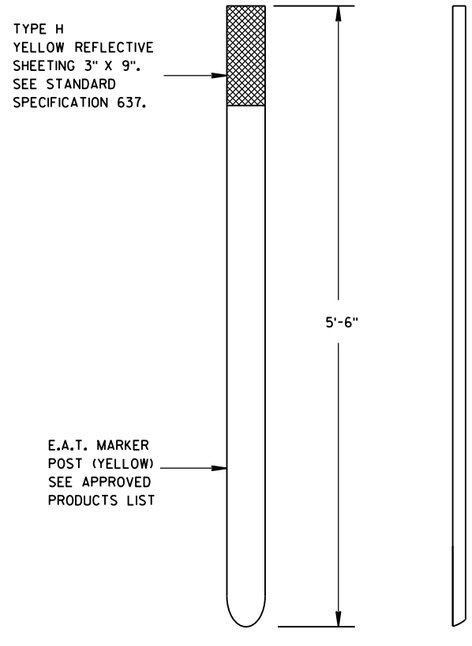
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



⑭ REFLECTIVE SHEETING DETAILS



E.A.T. MARKER POST

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV...

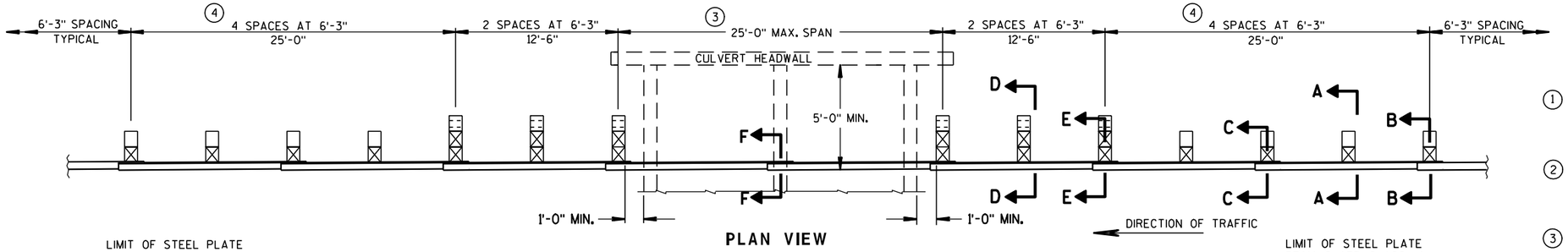
ENT

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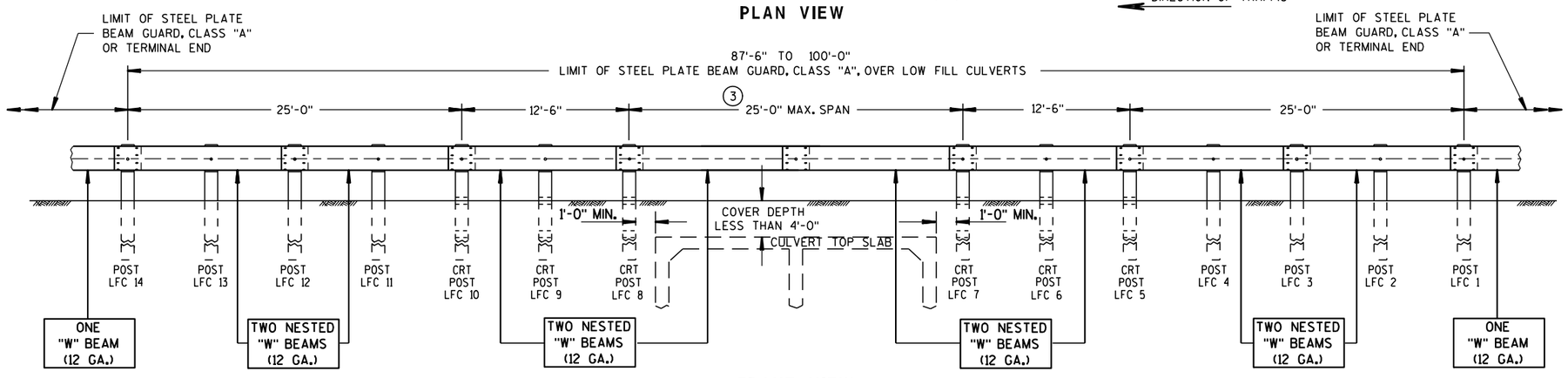
S.D.D. 14 B 24-9c

6

S.D.D. 14 B 24-9c



PLAN VIEW



FRONT VIEW

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD OVER LOW FILL CULVERTS

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.

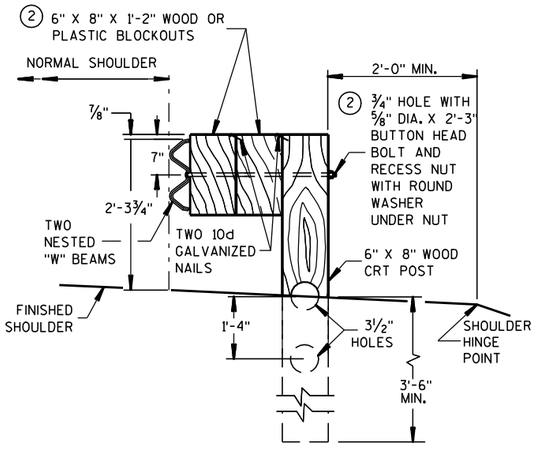
(1) MAINTAIN THE NESTING OF EACH NESTED PAIR OF "W" BEAM SECTIONS THROUGH SPLICES. ORIENTATE NESTED "W" BEAM SPLICES IN THE DIRECTION OF TRAFFIC AS THE PLAN VIEW SHOWS. SEE S.D.D. 14 B 15 FOR SPLICE INSTALLATION.

(2) THE CONTRACTOR MAY USE APPROVED PLASTIC BLOCKOUTS IN LIEU OF WOOD BLOCKOUTS. SEE S.D.D. 14 B 15 FOR TYPICAL BLOCKOUT, SPLICE AND REFLECTOR INSTALLATIONS. USE BOLT SIZES AND LENGTHS AS SHOWN ON THIS DETAIL.

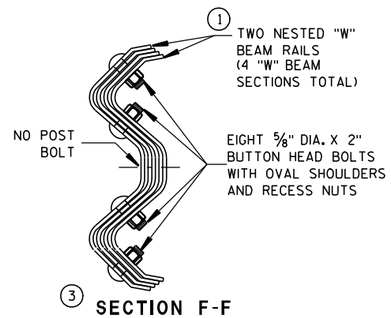
(3) PROVIDE 12'-6", 18'-9" AND 25'-0" SPANS ONLY. USE A MAXIMUM OF ONE SPLICE LOCATED ANYWHERE WITHIN THE SPAN SECTION. LOCATE ALL OTHER SPLICES AT BEAM GUARD POSTS.

(4) IN THE FIRST AND LAST 25 FOOT SECTIONS (POSTS LFC 1-4 & LFC 11-14), THE CONTRACTOR MAY USE W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS OR 6" X 8" WOOD POSTS WITH EITHER WOOD OR PLASTIC BLOCKOUTS. DO NOT MIX STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS AND WOOD POSTS WITH EITHER WOOD OR PLASTIC BLOCKOUTS IN THE SAME INSTALLATION.

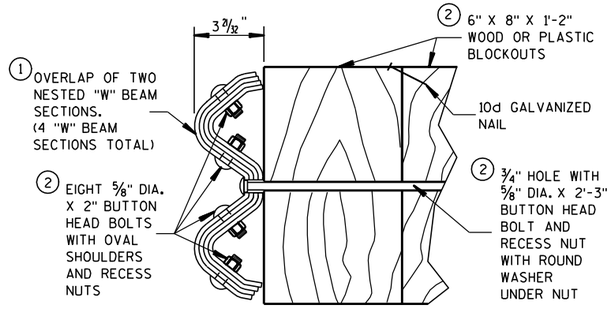
(5) WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK, THE PLAN TYPICAL SECTIONS OR DETAILS MAY SHOW, OR THE ENGINEER MAY ALLOW, THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. BUILD AS THE PLAN SHOWS OR ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST SOIL DEPTH TO 4'-6" OR MORE.



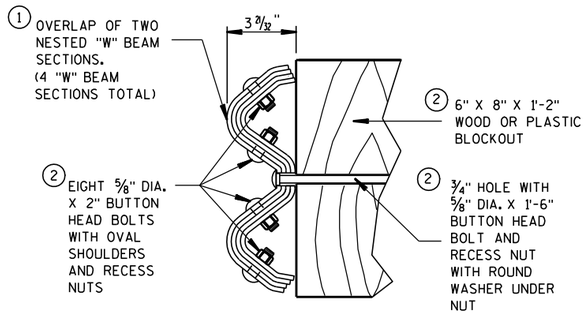
SECTION D-D
TYPICAL CRT POST LFC 6 AND 9



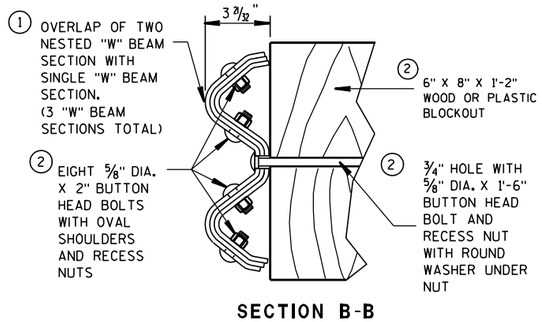
(3) SECTION F-F
BEAM SPLICE IN SPAN OVER CULVERT



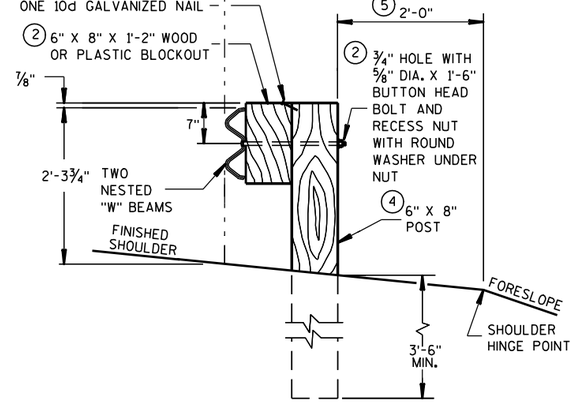
SECTION E-E
TYPICAL CRT POST LFC 5, 7, 8 AND 10



SECTION C-C
TYPICAL AT POSTS LFC 3 AND 12



SECTION B-B
TYPICAL AT POSTS LFC 1 AND 14



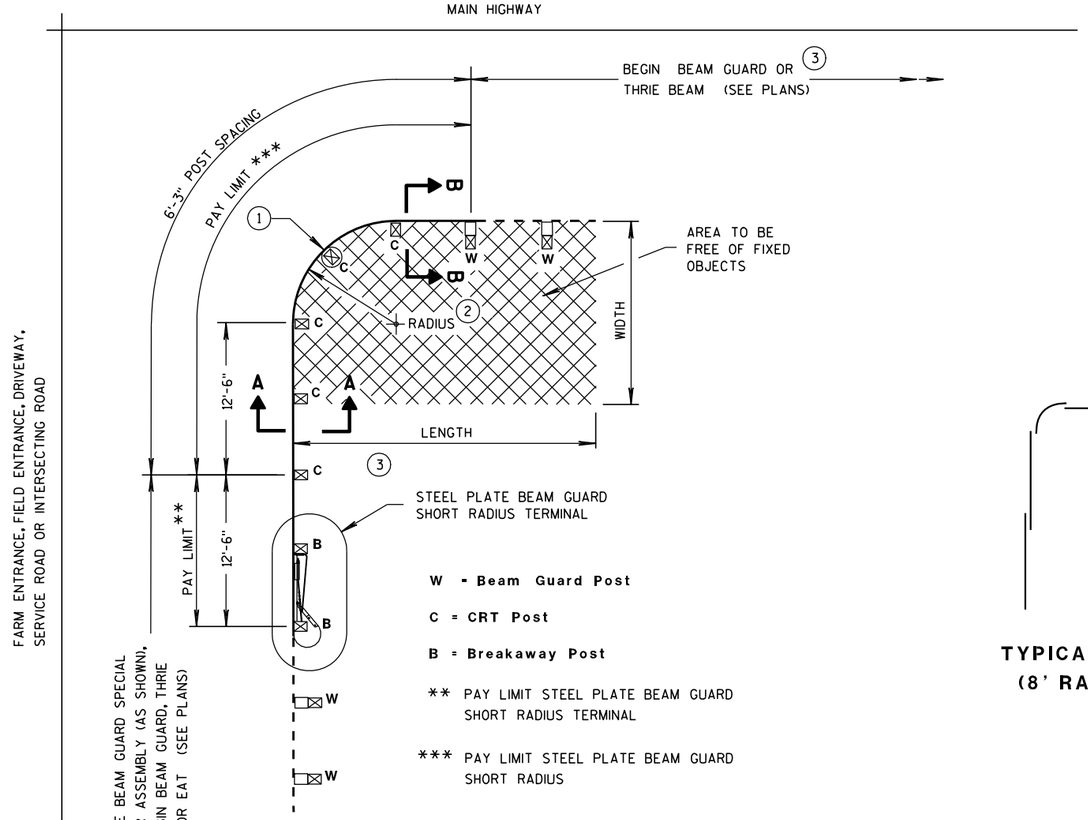
SECTION A-A
TYPICAL AT POST LFC 2,4,11,13

STEEL PLATE BEAM GUARD, CLASS "A", OVER LOW FILL CULVERTS

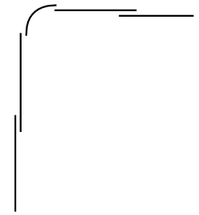
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/8/00 DATE
/S/ John Have... CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 14 B 25-1



TYPICAL LAYOUT
(8' RADIUS SHOWN)



TYPICAL LAP SPLICES
(8' RADIUS SHOWN)

GENERAL NOTES

ALL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND THE STRUCTURAL TUBING SHALL CONFORM TO ASTM A 500. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123. PUNCHING, DRILLING, CUTTING, OR WELDING WILL NOT BE PERMITTED AFTER GALVANIZING. FURNISH AND INSTALL HARDWARE PER STANDARD SPECIFICATION 614.2. UNLESS NOTED OTHERWISE.

SHOP BEND CURVED RAIL SECTIONS.

SEE STANDARD DETAIL DRAWING 14 B 15 FOR OTHER DETAIL.

(1) ON THE 8 FOOT RADIUS INSTALLATION, DO NOT INSTALL BUTTON HEAD BOLT AT CENTER CRT POST.

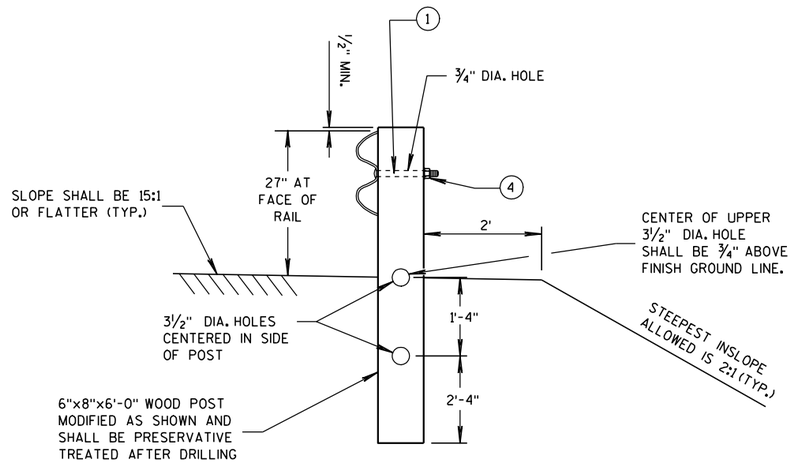
(2) RADIUS FROM 8' - 36'. SEE PLAN.

(3) HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.

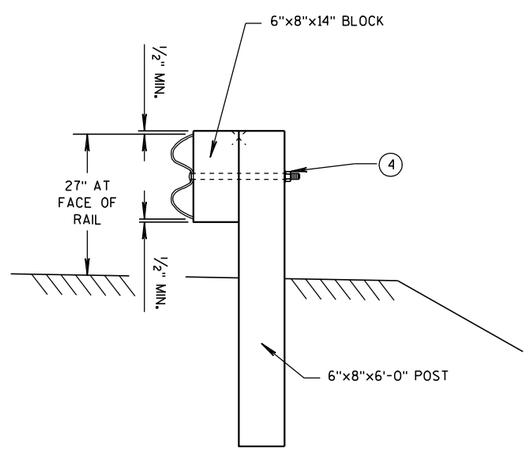
(4) 5/8" ø X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

RADIUS	NUMBER OF CRT POSTS	*NUMBER AND LENGTH OF CURVED RAILS	REQUIRED AREA FREE OF FIXED OBJECTS (LENGTH x WIDTH)
8'	5	1 at 12.5'	25' x 15'
16'	7	1 at 25'	30' x 15'
24'	9	1 at 25' and 1 at 12.5'	40' x 20'
32'	11	2 at 25'	50' x 20'

* THE NUMBER OF RAILS IS BASED ON A 90° INTERSECTION. SEE PLAN FOR NON 90° INSTALLATIONS.



SECTION A-A
(CRT POST)



SECTION B-B
(BEAM GUARD POST)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

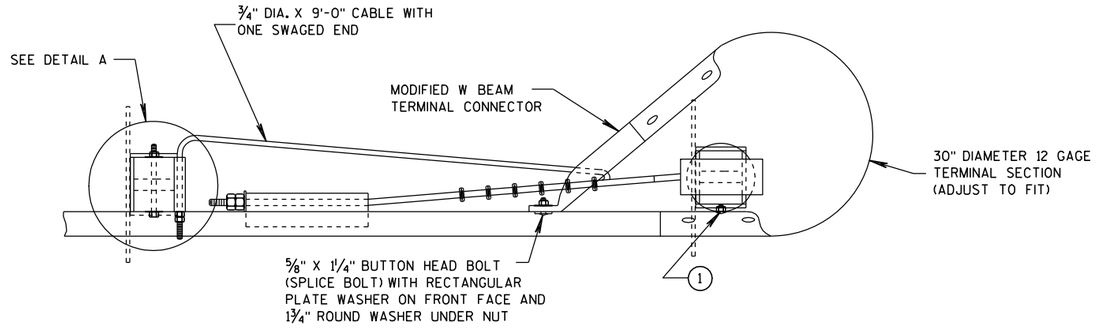
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

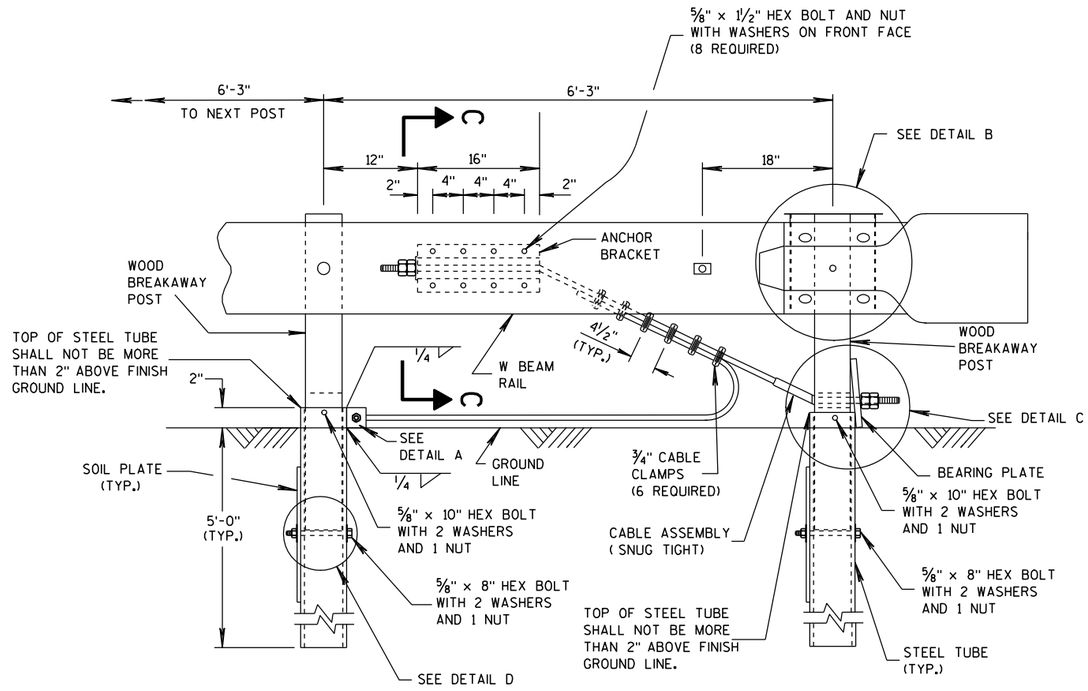
S.D.D. 14 B 27-1a

6

S.D.D. 14 B 27-1a



PLAN VIEW



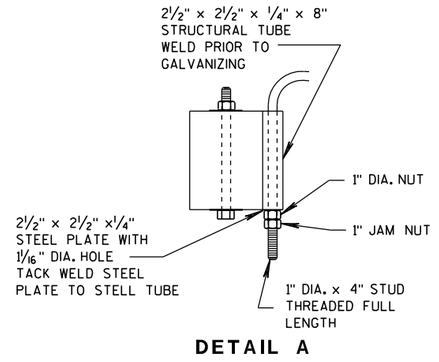
ELEVATION VIEW

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

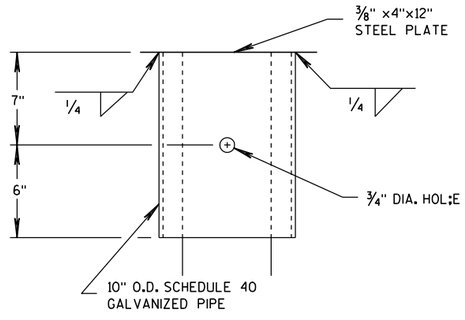
GENERAL NOTES

(1) ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A ⅝" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.

INSTALL GALVANIZED ¾" (6X19) PREFORMED WIRE OR INDEPENDENT WIRE ROPE CORE CONFORMING TO AASHTO M 30. MANUFACTURE WIRE ROPE OUT OF IMPROVED PLOW STEEL WITH A MINIMUM BREAKING STRENGTH OF 42,800 PSI.



DETAIL A



DETAIL B

(BEAM GUARD AND TERMINAL SECTION NOT SHOWN)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

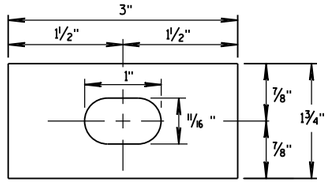
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

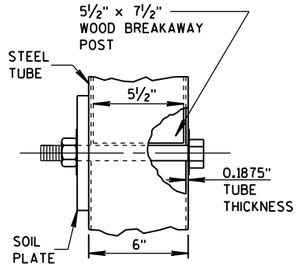
S.D.D. 14 B 27-1b

6

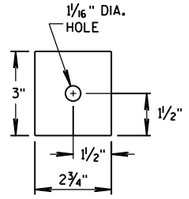
S.D.D. 14 B 27-1b



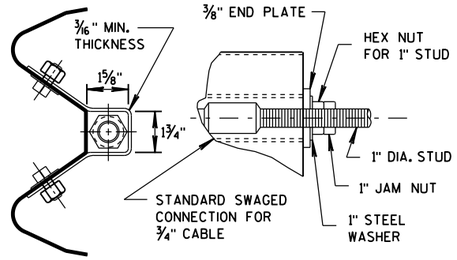
RECTANGULAR PLATE WASHER



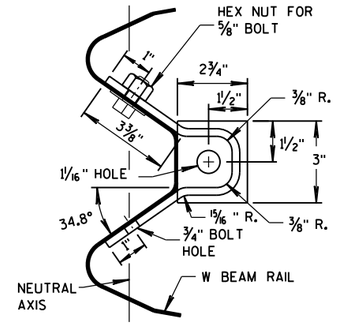
DETAIL D



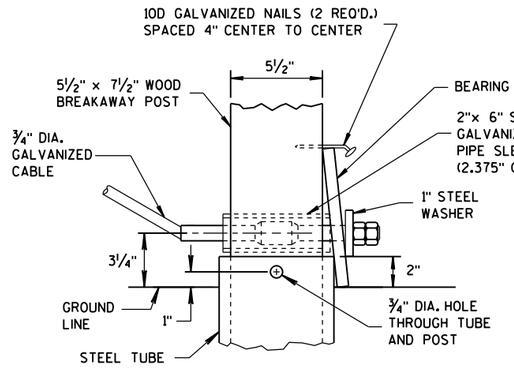
END PLATE



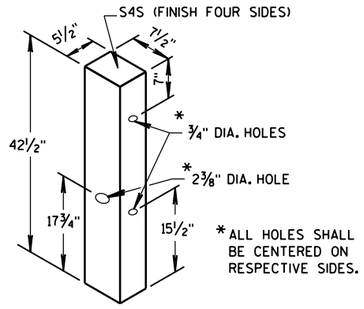
SECTION C-C
(END PLATE REMOVED)



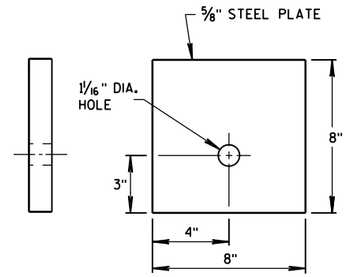
ANCHOR BRACKET



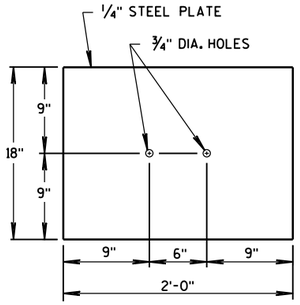
DETAIL C



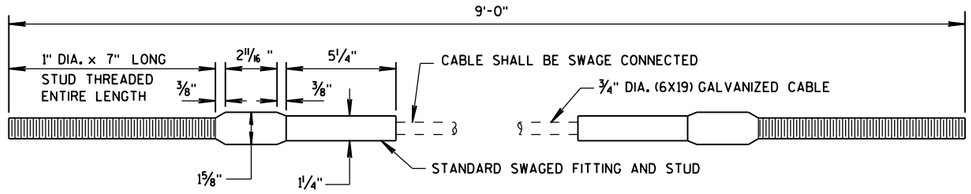
WOOD BREAKAWAY POST



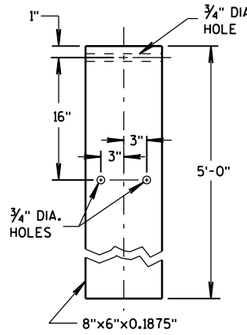
BEARING PLATE



SOIL PLATE



CABLE ASSEMBLY



STEEL TUBE

STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

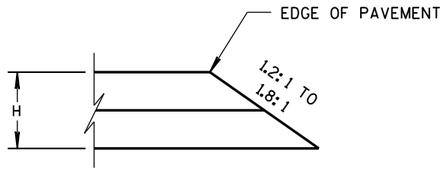
APPROVED
12/18/08 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 27-1c

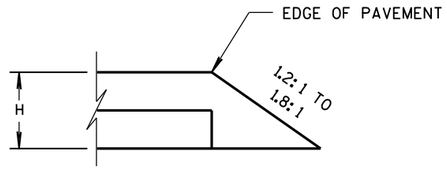
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S.D.D. 14 B 27-1c



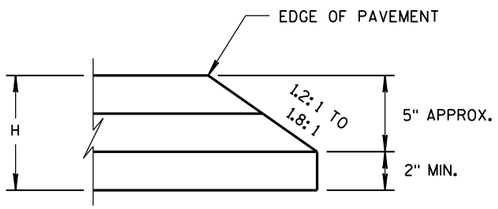
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



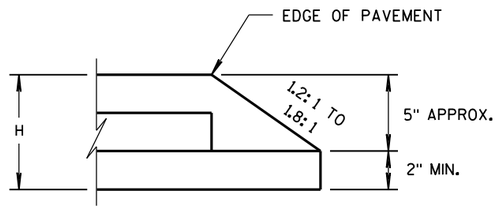
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

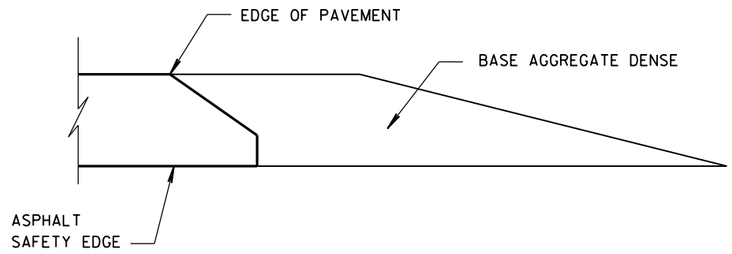
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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

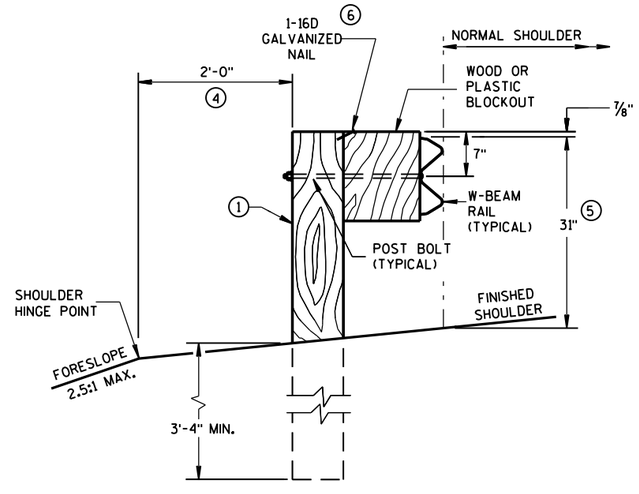
(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

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

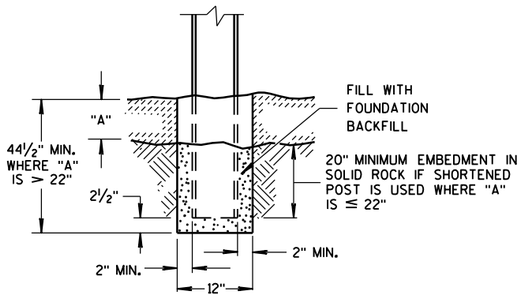
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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



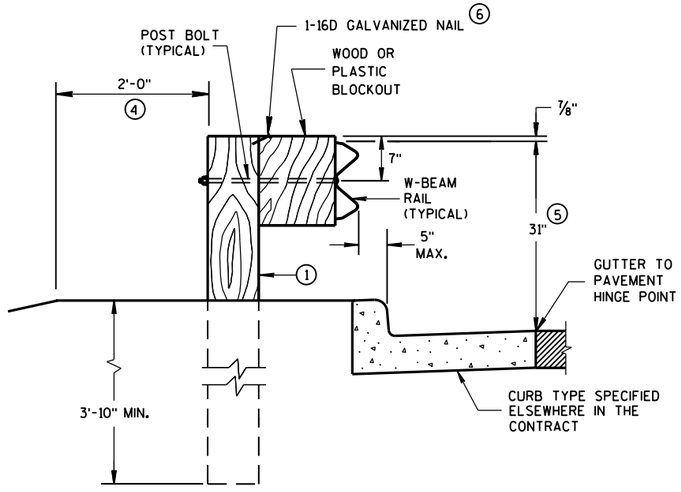
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



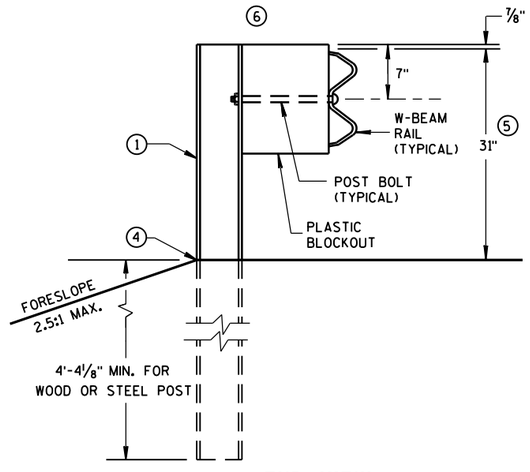
END VIEW

SETTING STEEL OR WOOD POST IN ROCK (3)



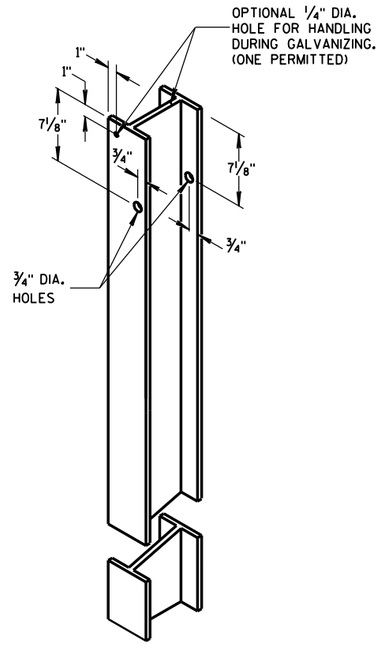
END VIEW

LOCATED ALONG A CURBED ROADWAY

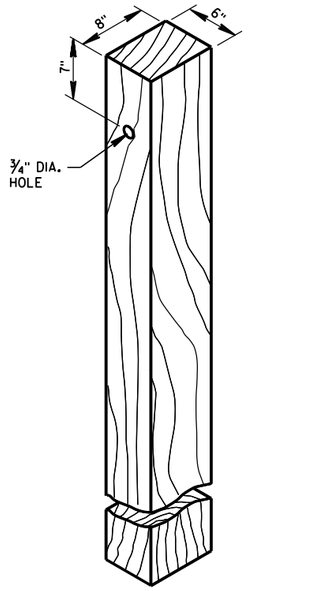


END VIEW

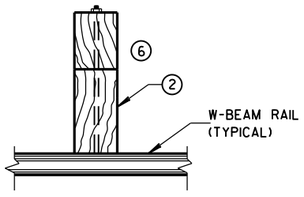
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



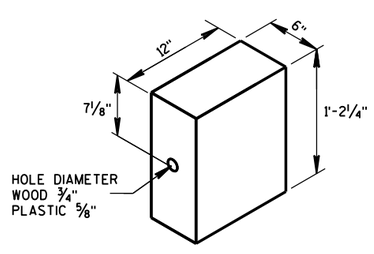
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



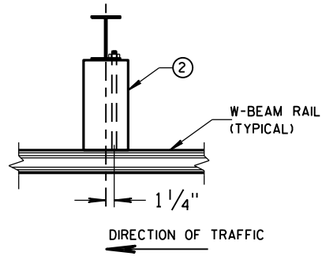
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)



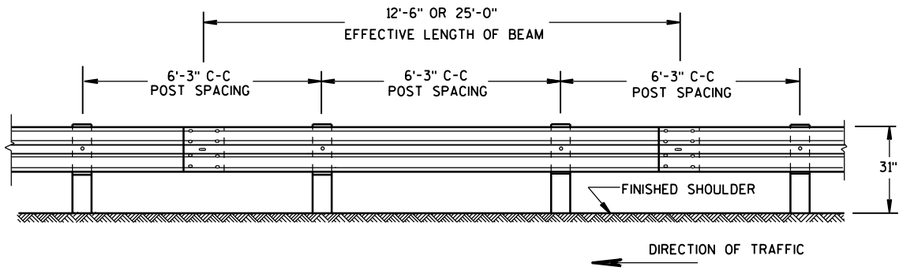
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

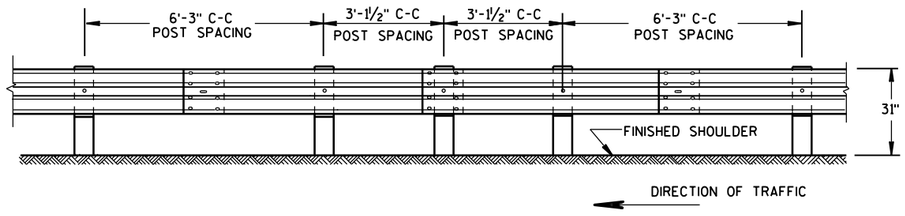
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S.D.D. 14 B 42-5a



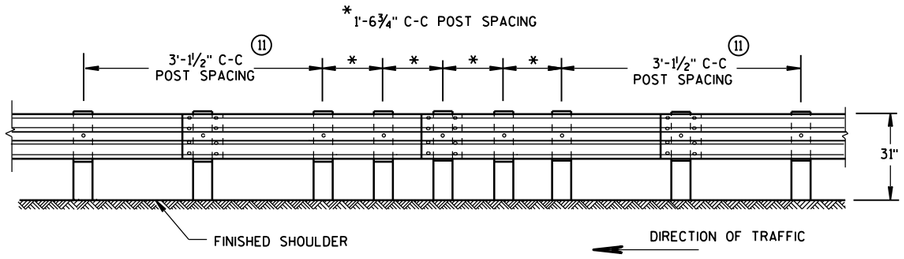
FRONT VIEW

POST SPACING STANDARD INSTALLATION



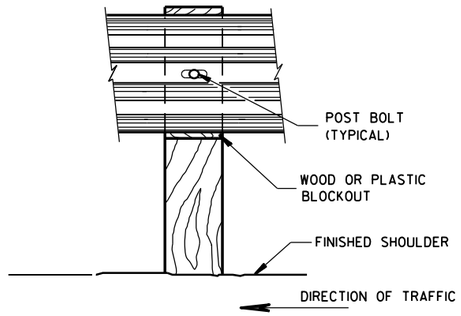
FRONT VIEW

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

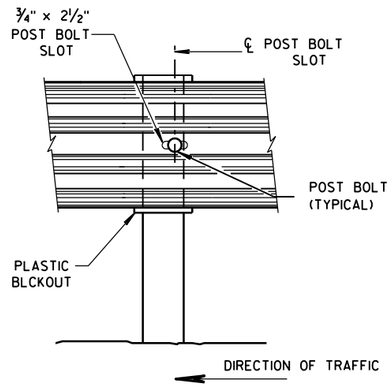


FRONT VIEW

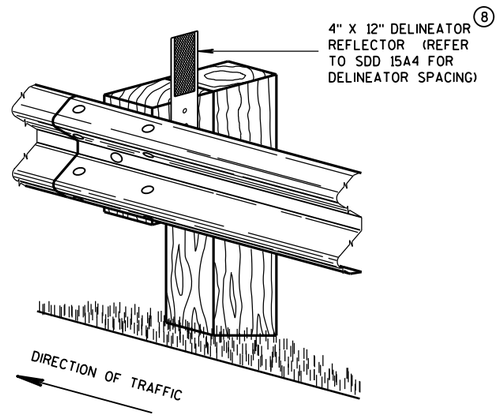
QUARTER POST SPACING (QS)



FRONT VIEW AT WOOD POST



FRONT VIEW AT STEEL POST



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

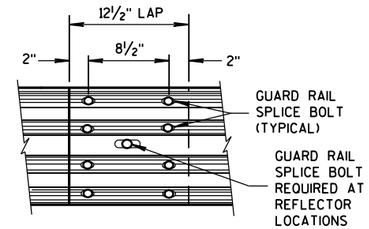
GENERAL NOTES

(8) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

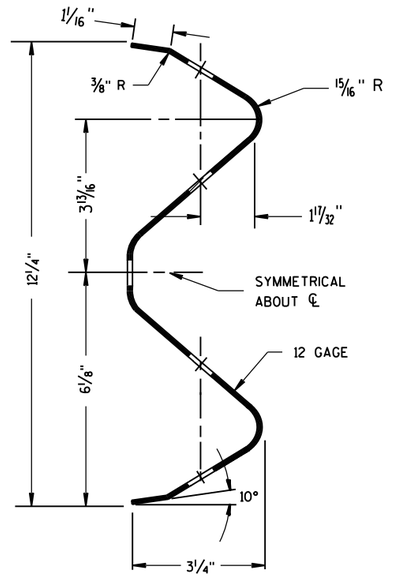
(11) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

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



FRONT VIEW
MID-SPAN BEAM SPLICE



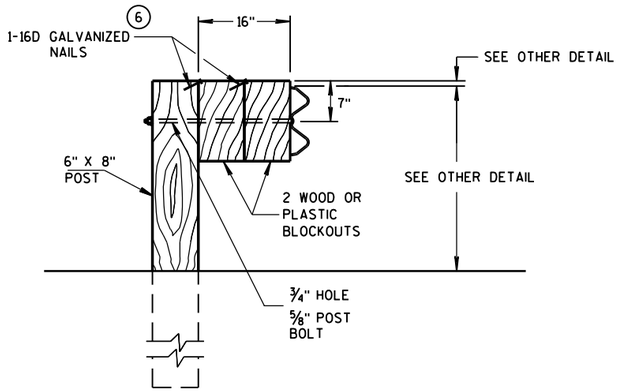
SECTION THRU W-BEAM RAIL

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

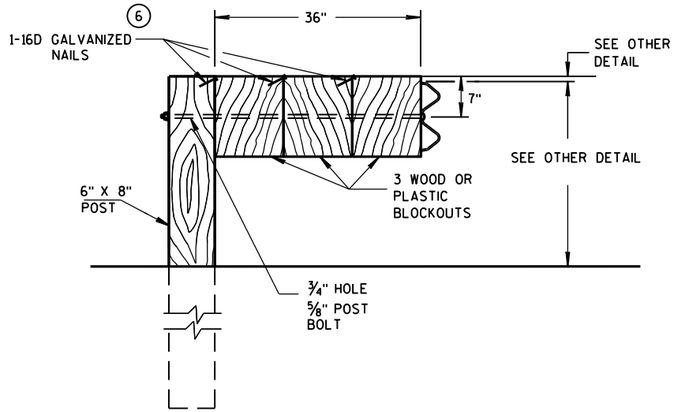
6

S.D.D. 14 B 42-5b



DETAIL FOR 16" BLOCKOUT DEPTH

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

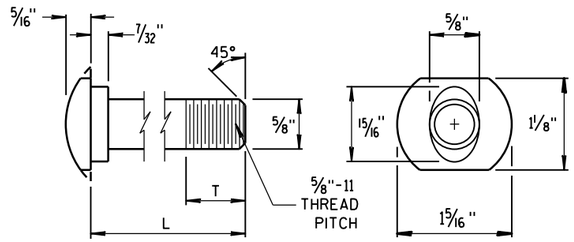


DETAIL FOR 36" BLOCKOUT DEPTH

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

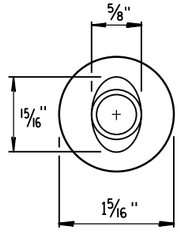
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

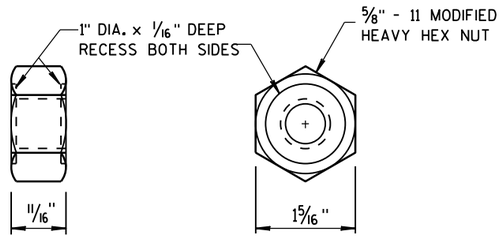


POST BOLT TABLE

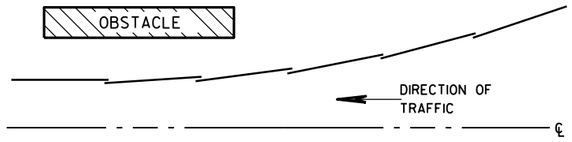
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

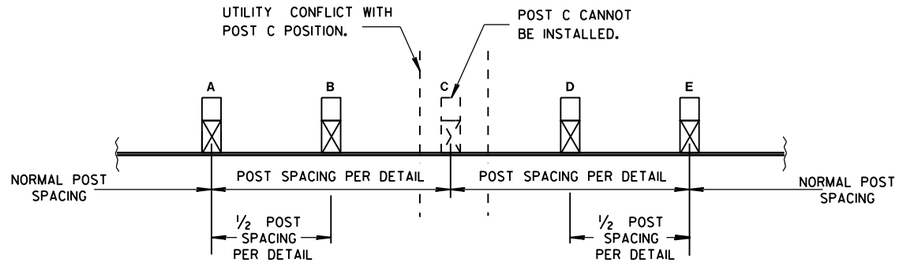


POST BOLT, SPLICE BOLT AND RECESS NUT

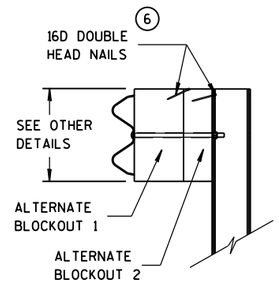


PLAN VIEW

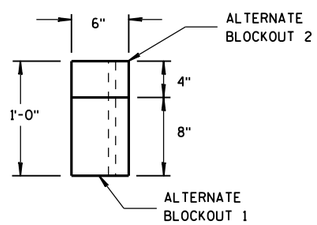
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

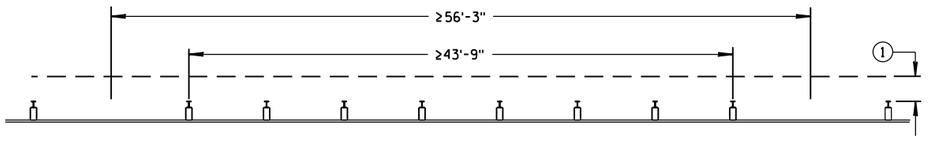
ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

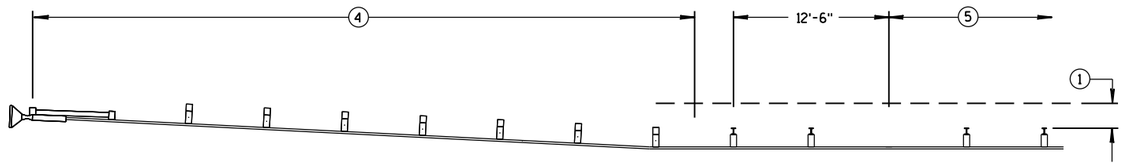
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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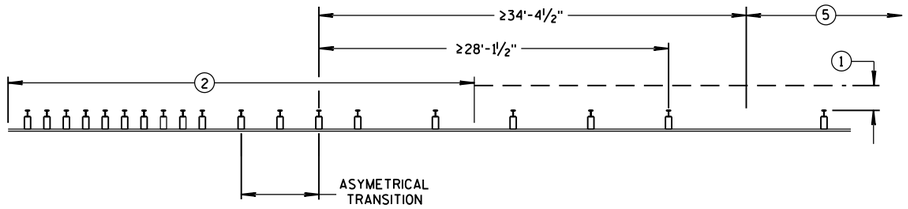
S.D.D. 14 B 42-5c



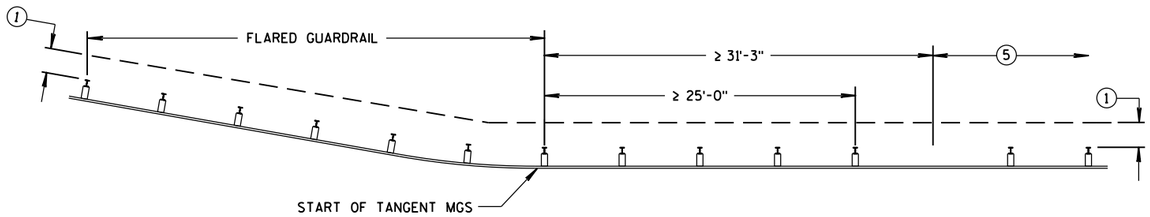
MISSING POST IN NORMAL BEAM GUARD RUN



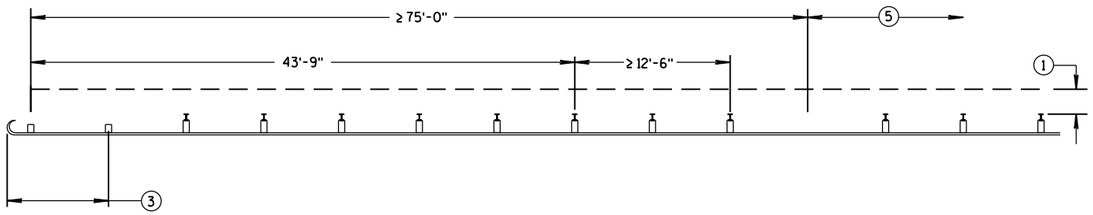
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



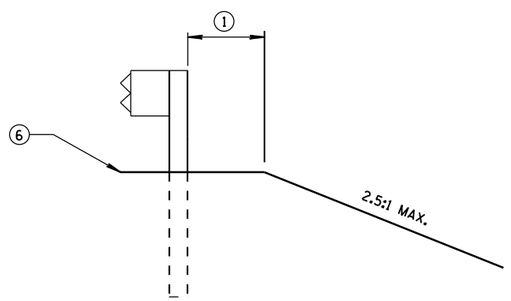
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
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APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

6

S.D.D. 14 B 42-5d

6

S.D.D. 14 B 42-5d

GENERAL NOTES

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

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

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

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

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

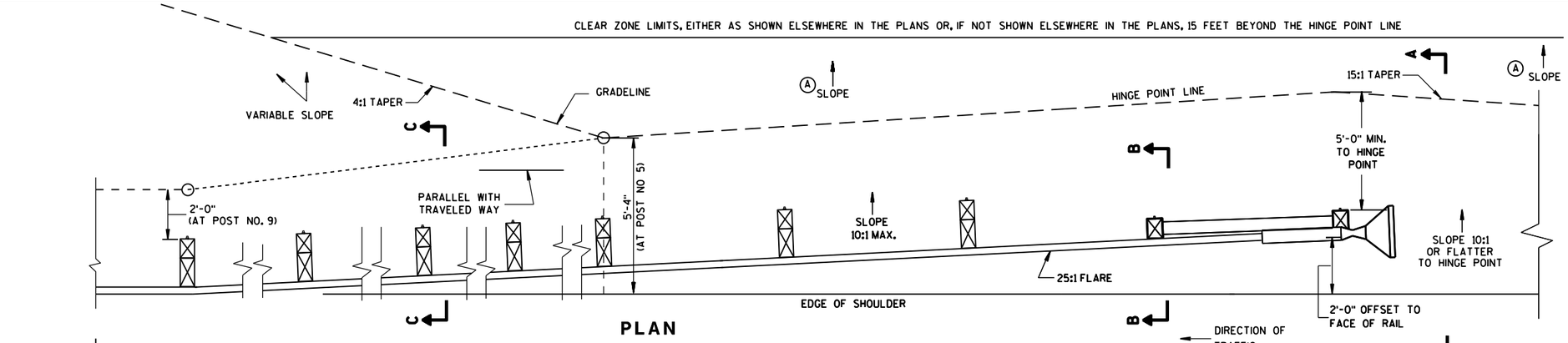
SEE SDD 14B42 FOR MORE INFORMATION.

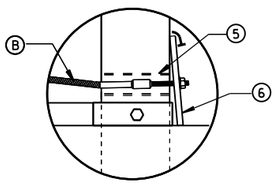
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

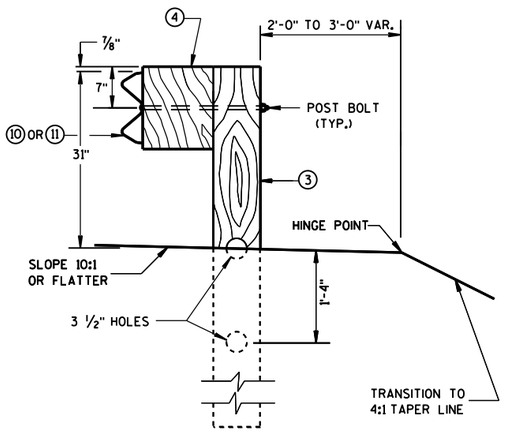
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

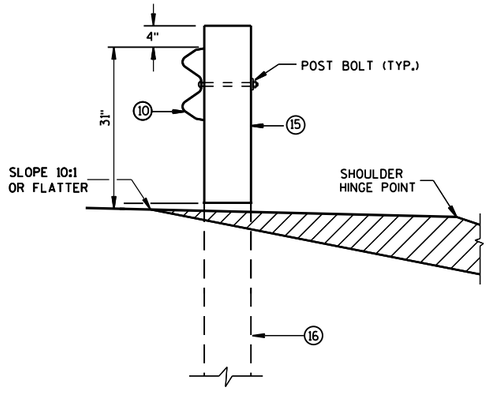
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

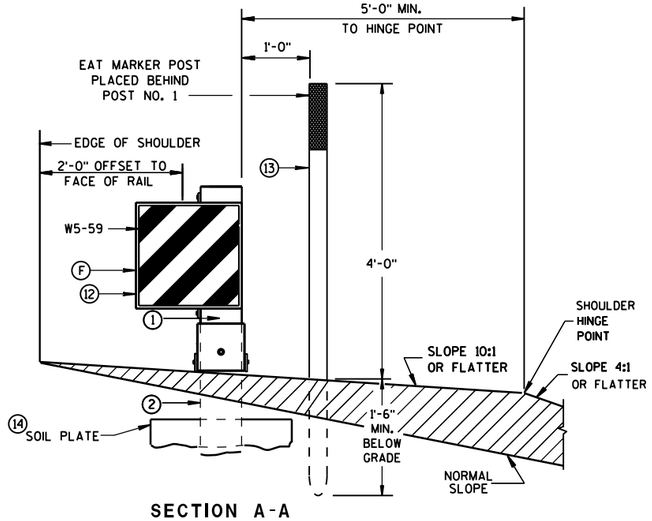
THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

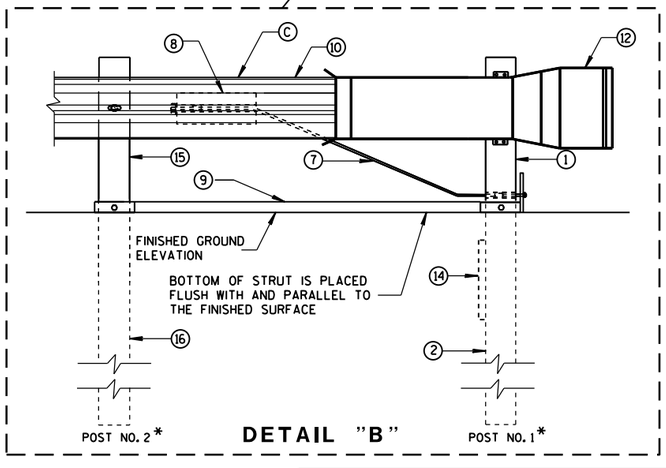








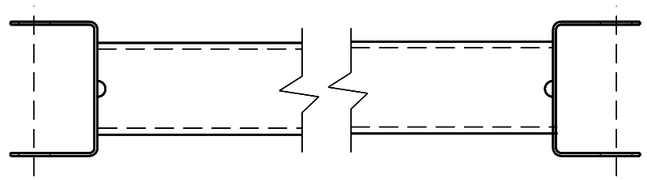




MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

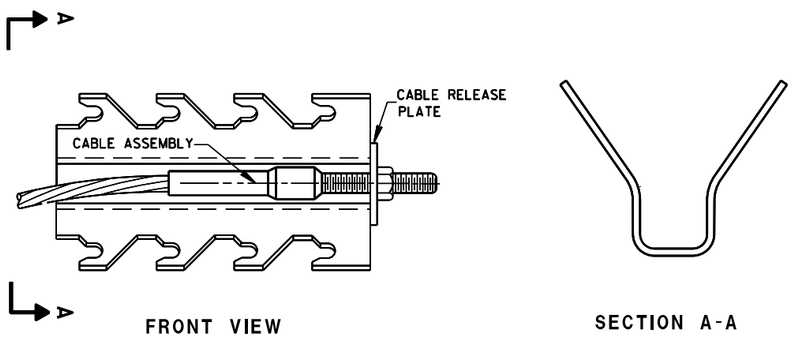
STATE OF WISCONSIN
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6
S.D.D. 14 B 44-3a



(9) (H)

GENERIC GROUND STRUT



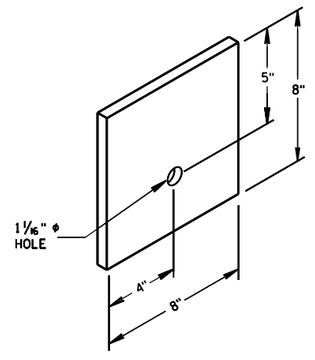
FRONT VIEW

SECTION A-A

GENERIC ANCHOR CABLE BOX (8) (H)

BILL OF MATERIALS

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



BEARING PLATE (6)

6

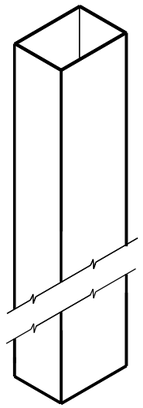
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S.D.D. 14 B 44-3b

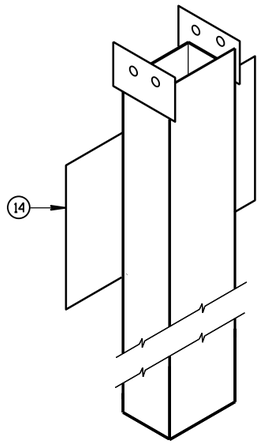
S.D.D. 14 B 44-3b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

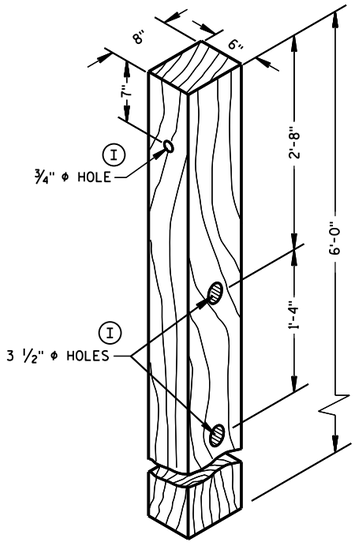
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR



UPPER POST NO. 1 (1)

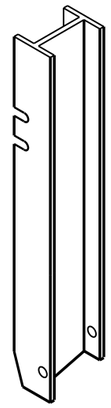


LOWER POST NO. 1 (2)

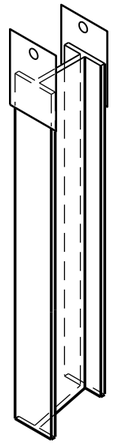


POSTS NUMBER 3-9

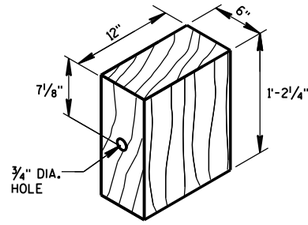
WOOD CRT POST (3)



UPPER POST NO. 2 (15)

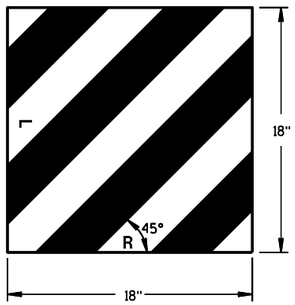


LOWER POST NO. 2 (16)



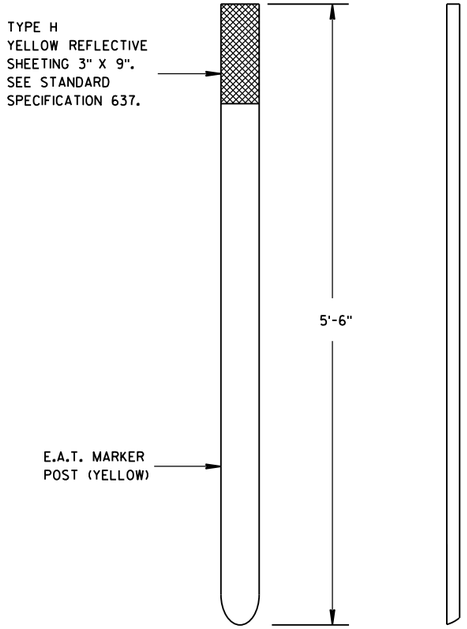
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



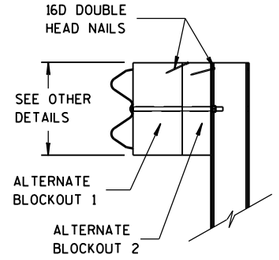
W5-59

REFLECTIVE SHEETING DETAIL (H)

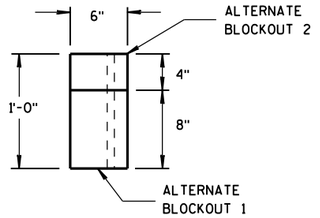


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERVISOR

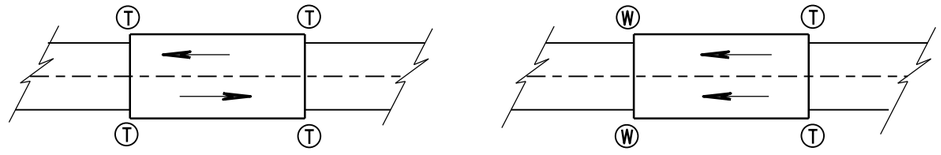
FHWA

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S.D.D. 14 B 44-3c

6

S.D.D. 14 B 44-3c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

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

GENERAL NOTES

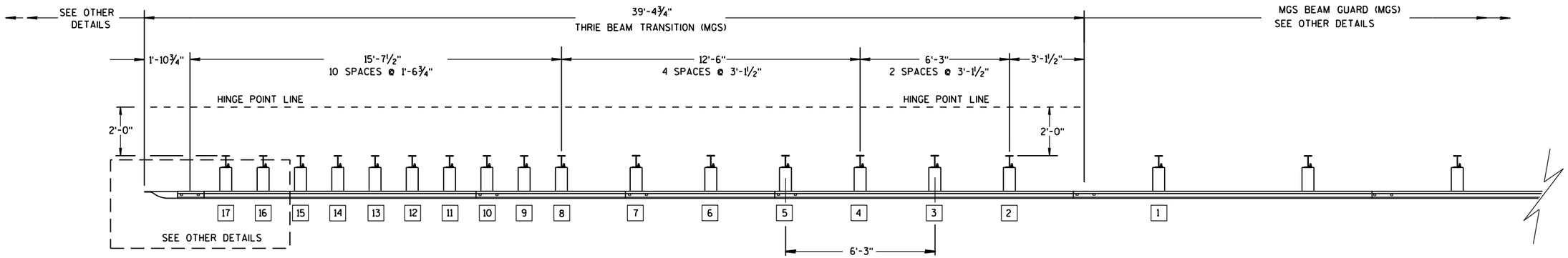
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

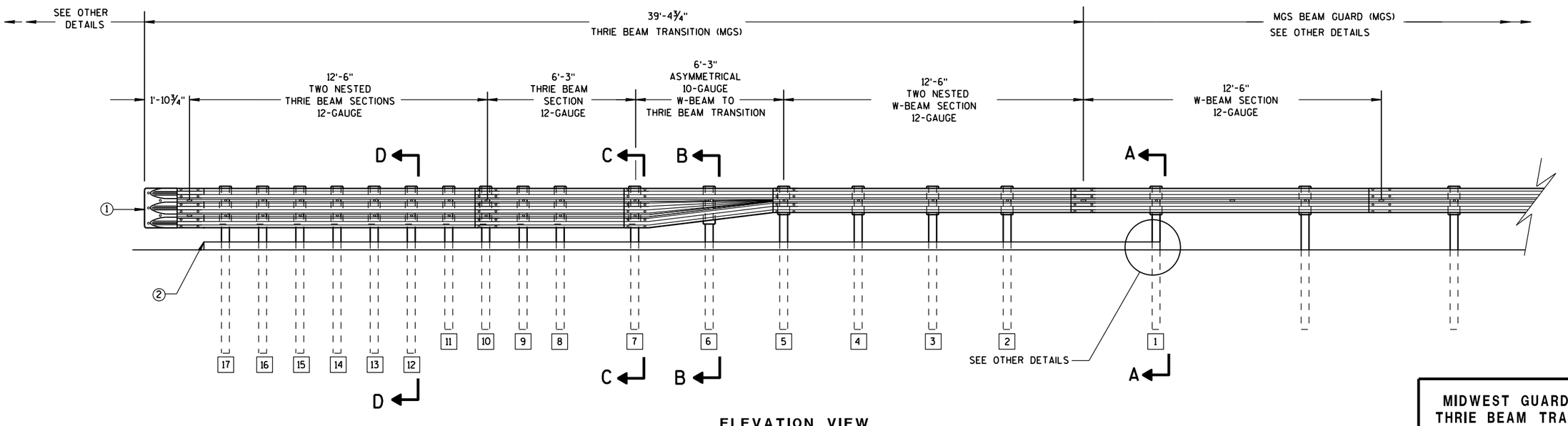
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

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

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



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-4a

6

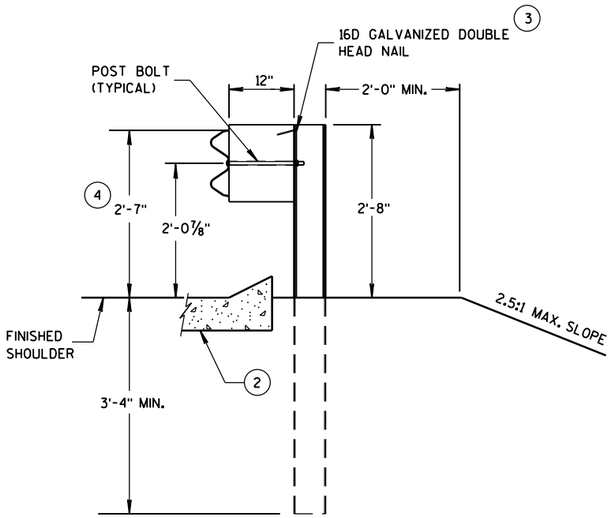
S.D.D. 14 B 45-4a

GENERAL NOTES

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

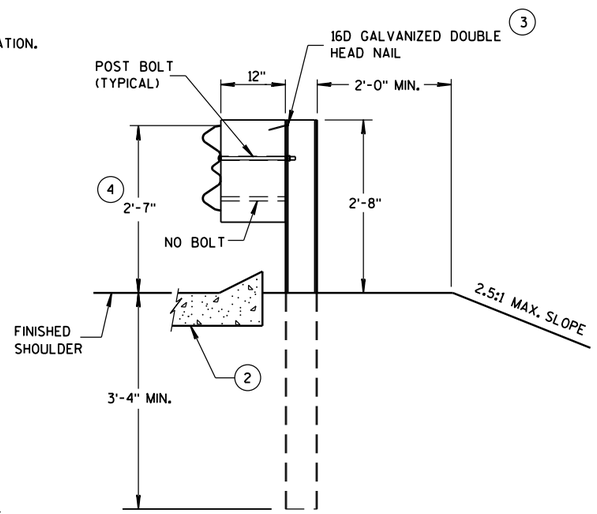
(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

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



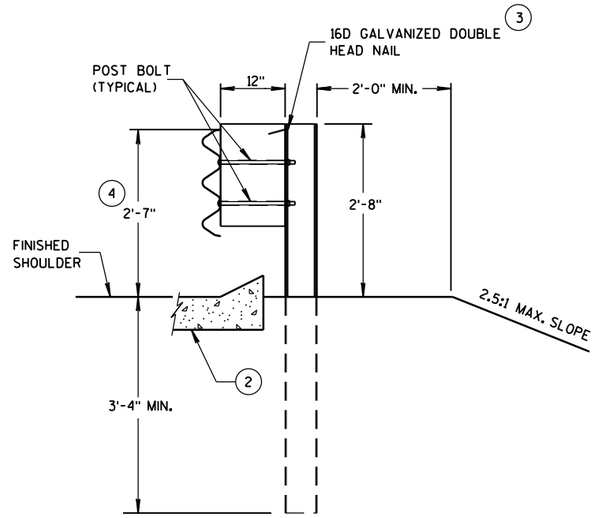
SECTION A-A

POSTS 1-5



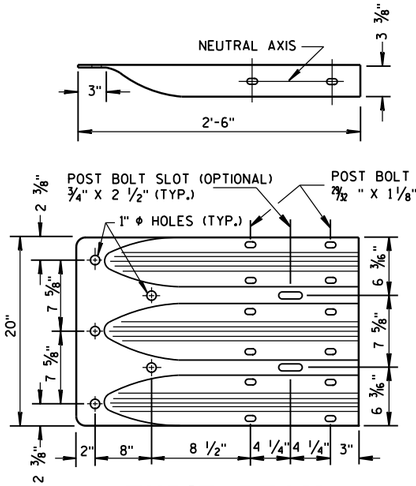
SECTION B-B

POST 6



SECTION C-C

POSTS 7-11



THRIE BEAM TERMINAL CONNECTOR

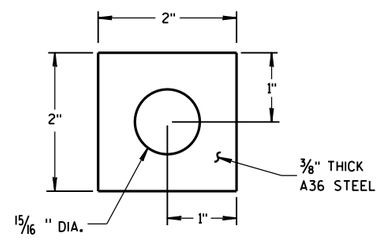
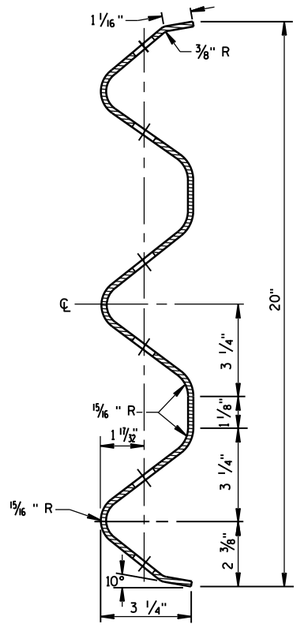
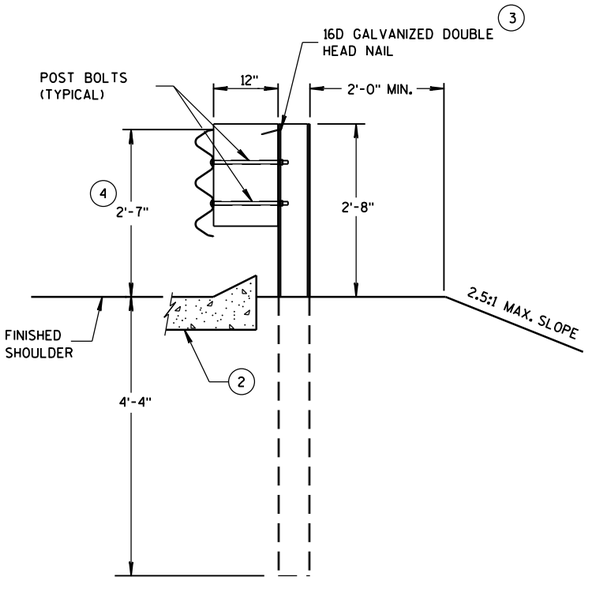


PLATE WASHER DETAIL

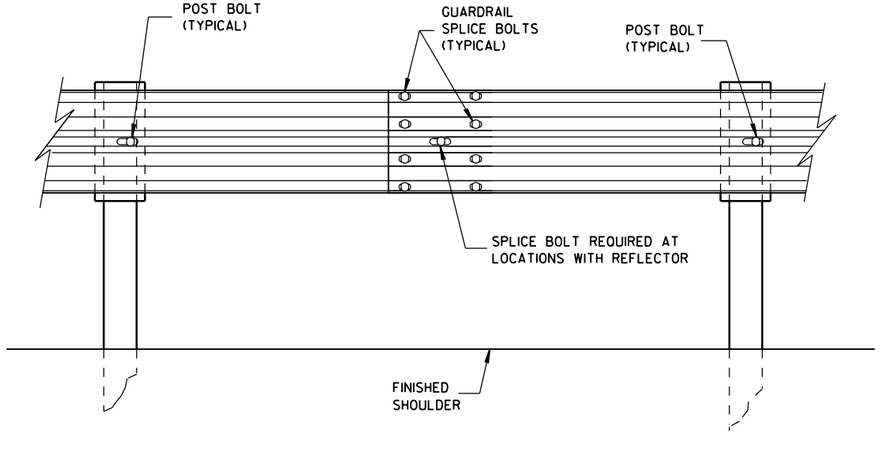


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-17



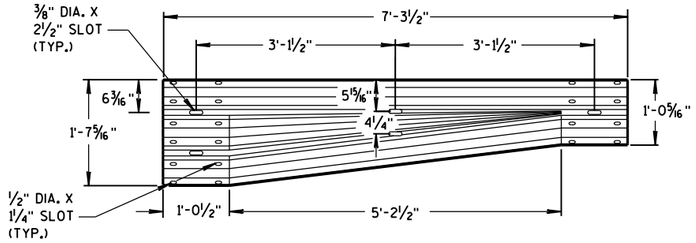
SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

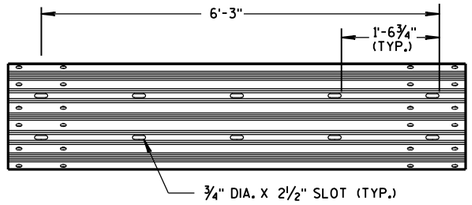
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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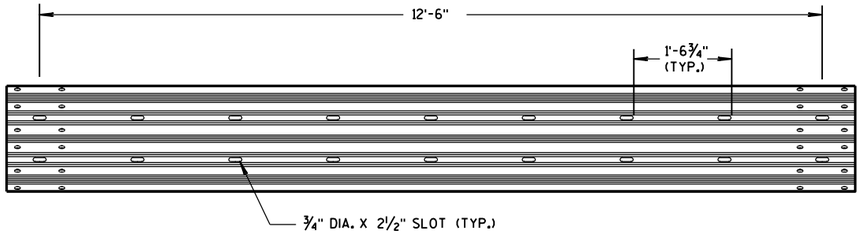
S.D.D. 14 B 45-4b



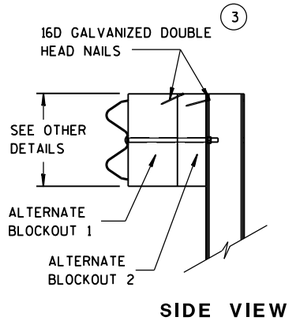
W-BEAM TO THRIE BEAM TRANSITION SECTION



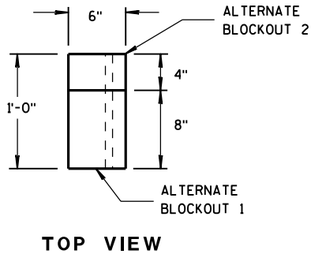
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

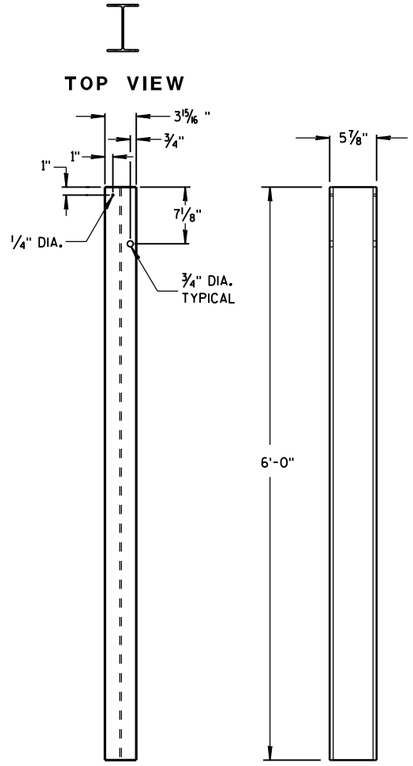


SIDE VIEW



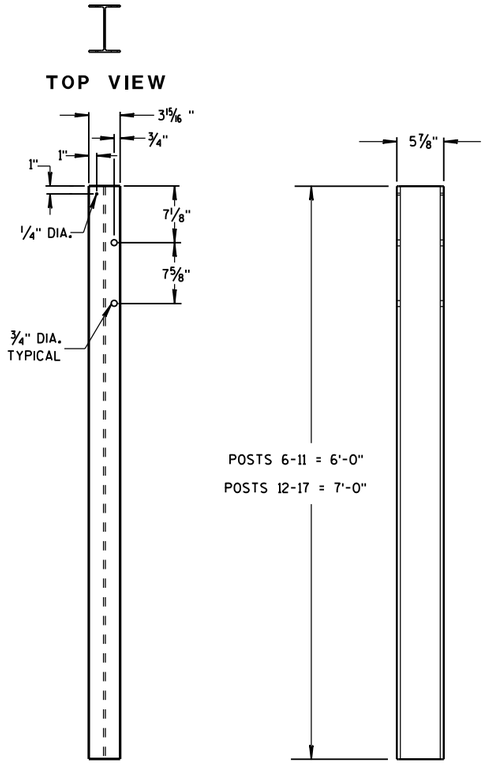
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



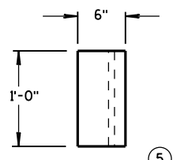
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5

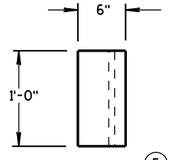


FRONT VIEW SIDE VIEW

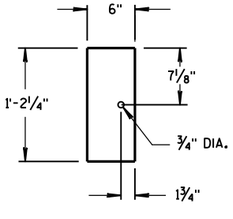
STEEL POSTS 6-17



TOP VIEW (5)

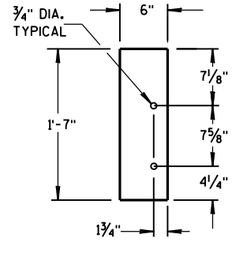


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

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

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

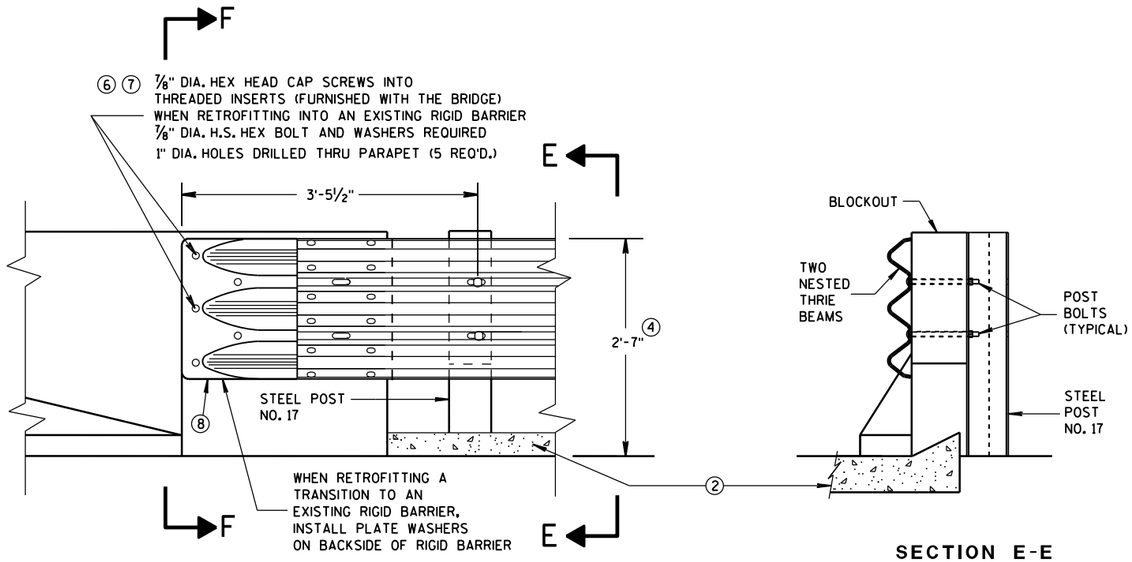
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 45-4c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

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

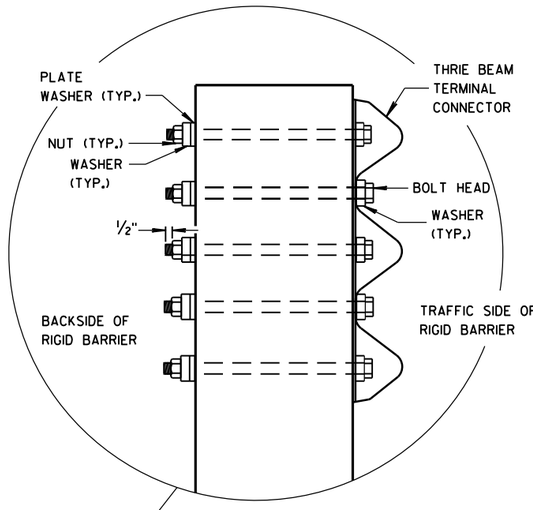
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

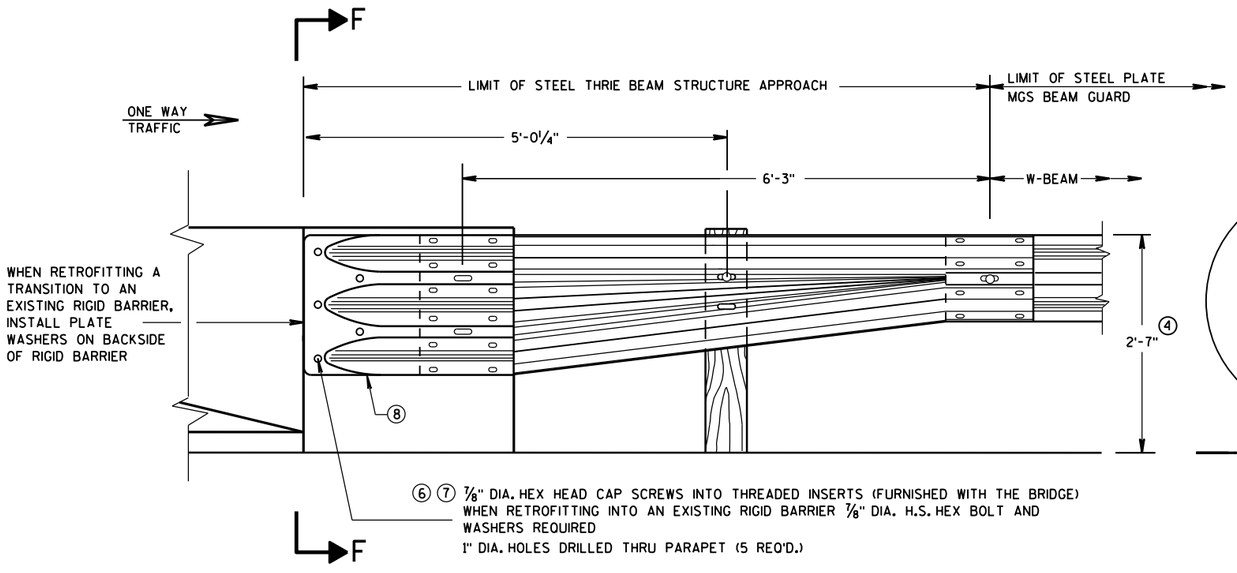
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

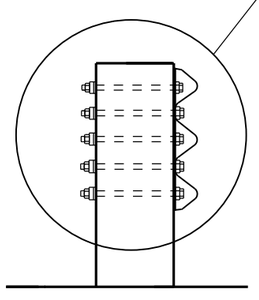
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

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

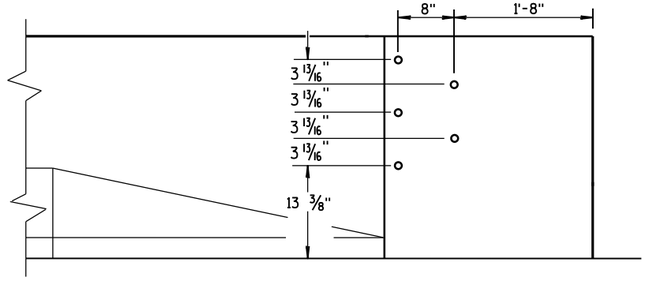




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

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

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
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6

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GENERAL NOTES

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

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

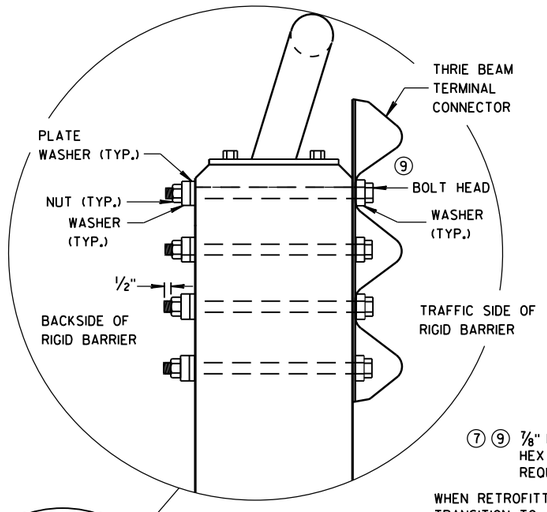
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

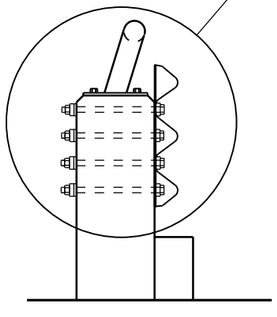
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

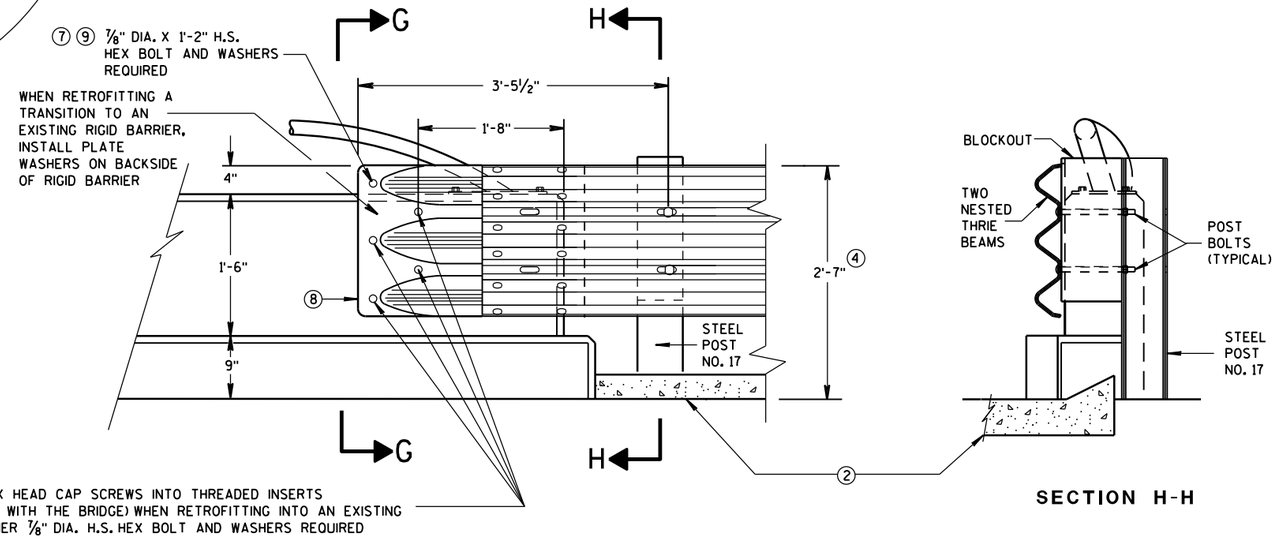
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

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





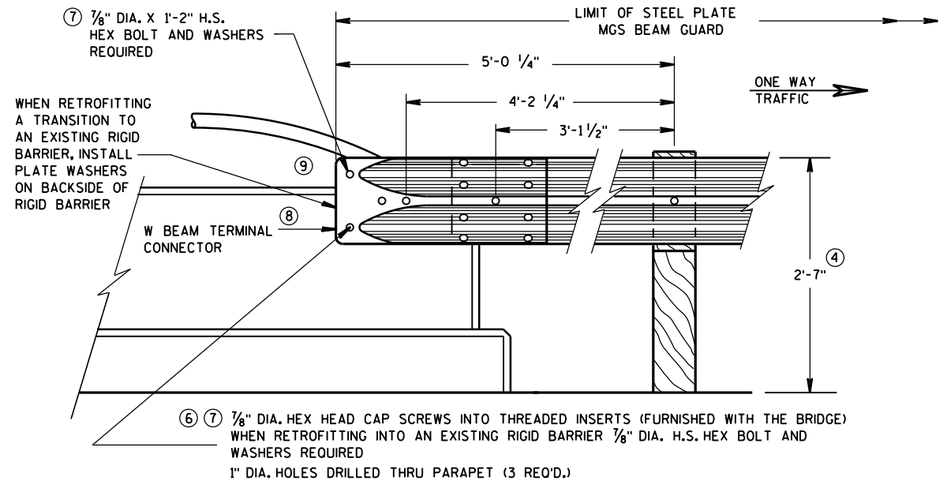
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

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

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

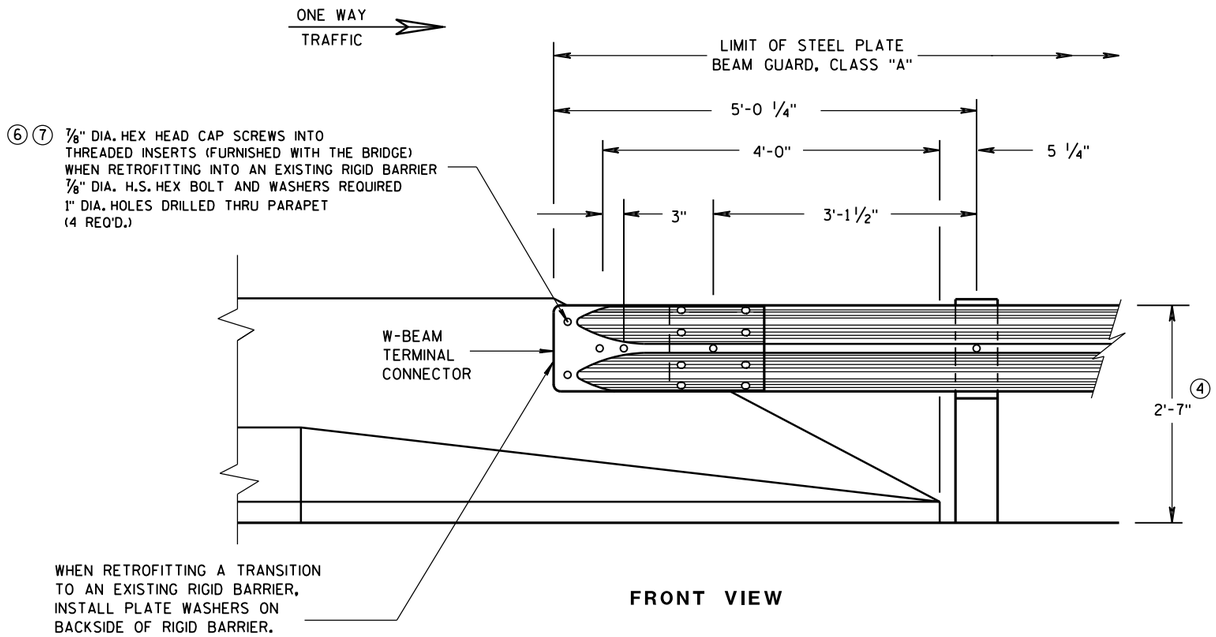
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June, 2015 — DATE
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S.D.D. 14 B 45-4e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

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

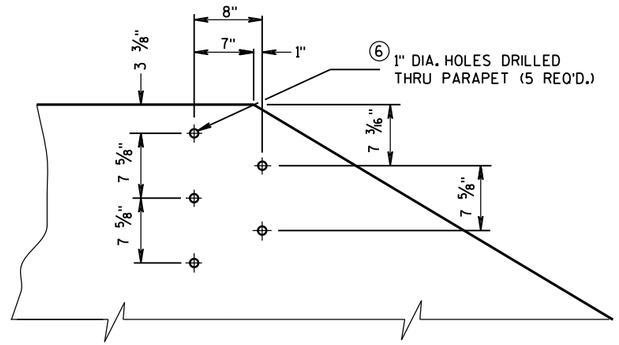
GENERAL NOTES

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

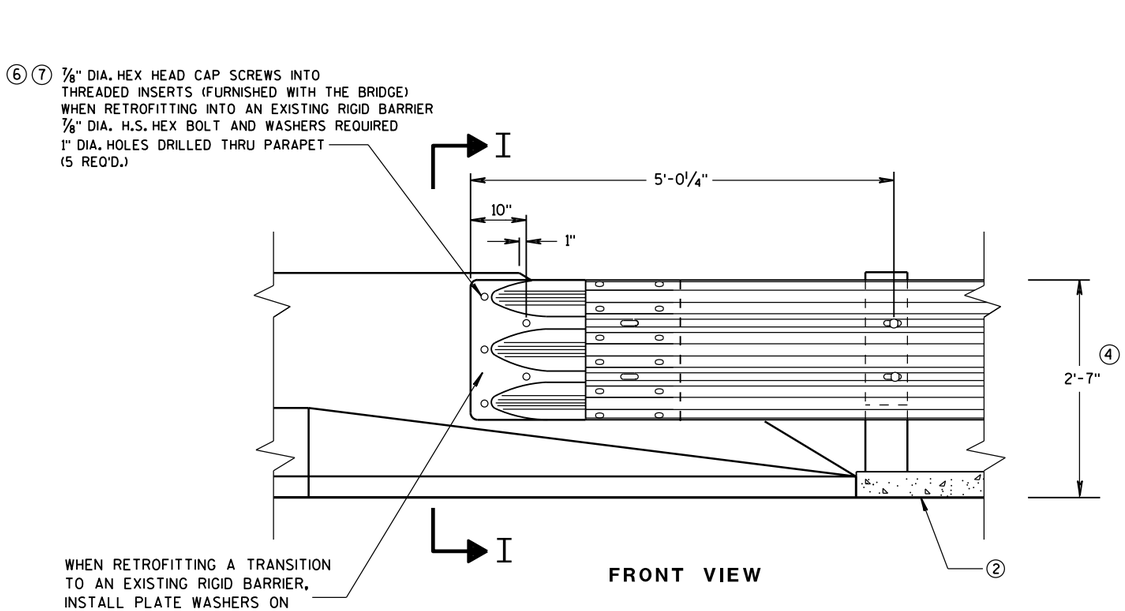
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

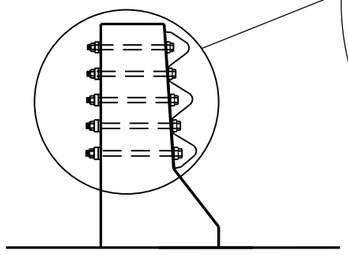
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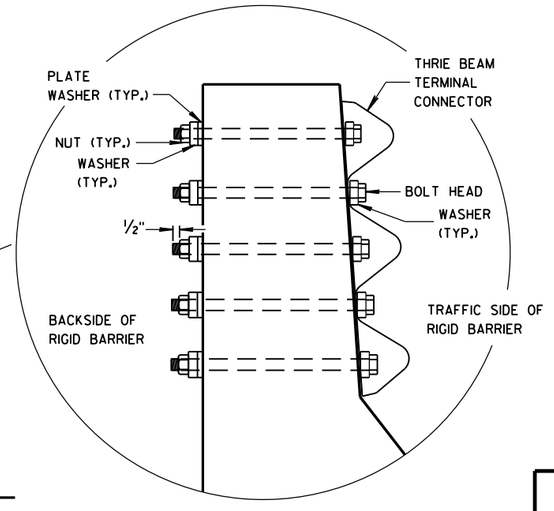
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

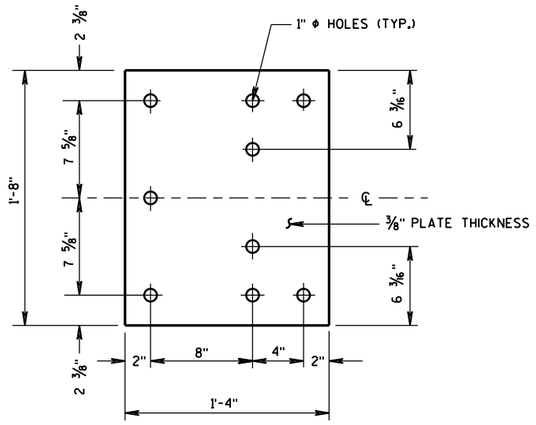
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6

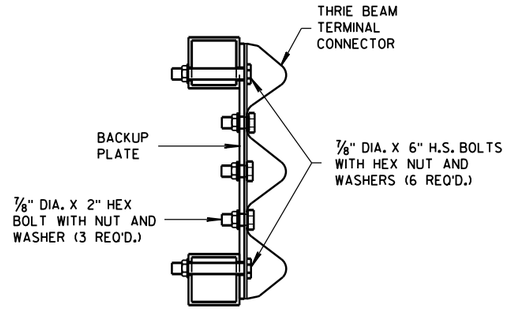
S.D.D. 14 B 45-4f

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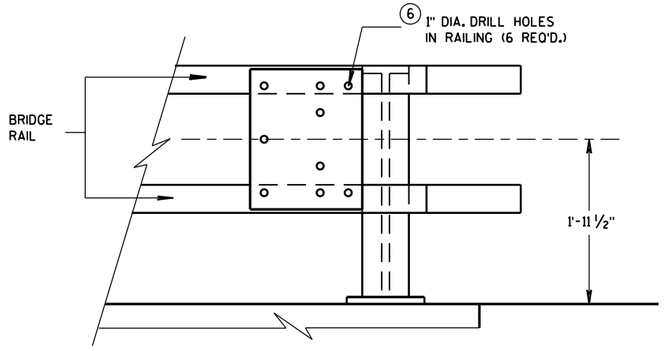
S.D.D. 14 B 45-4f



BACK-UP PLATE DETAIL



SECTION J-J

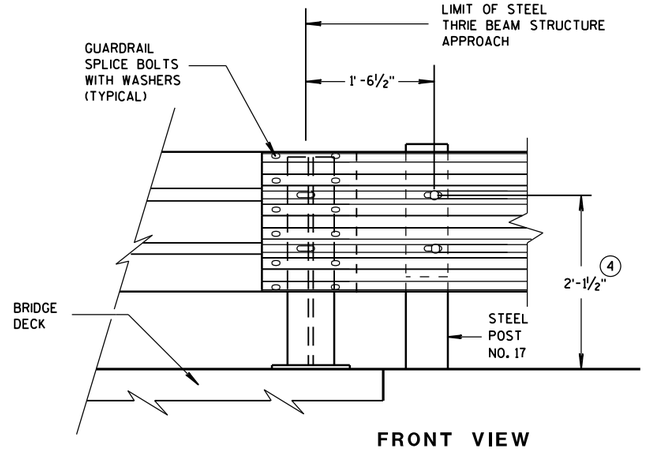


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

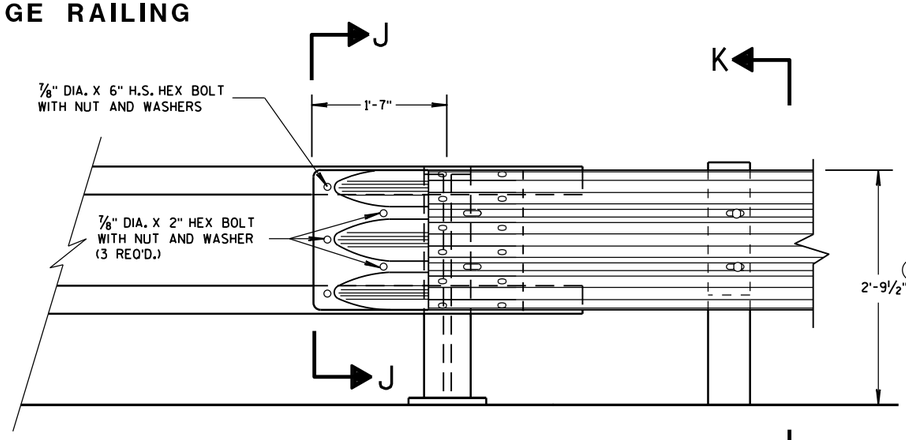
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⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

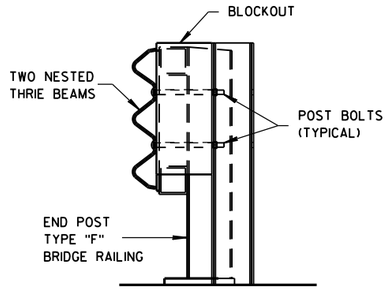


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
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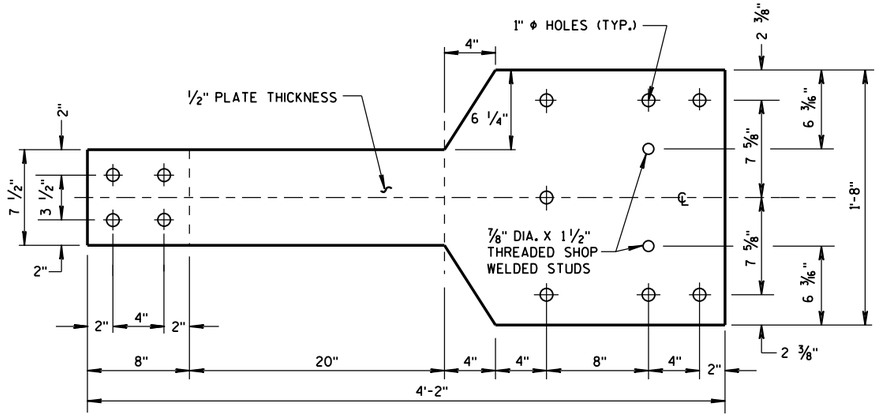
S.D.D. 14 B 45-4g

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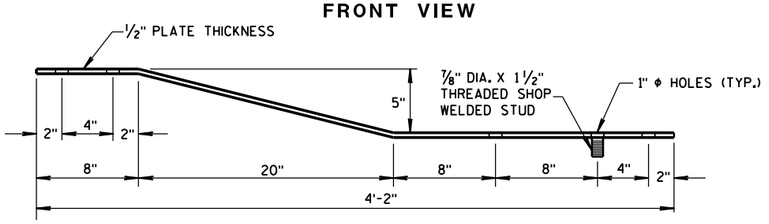
S.D.D. 14 B 45-4g

GENERAL NOTES

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

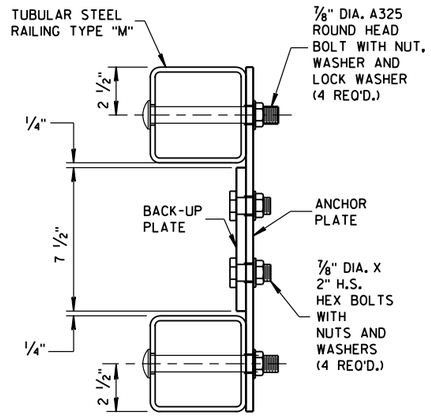


FRONT VIEW

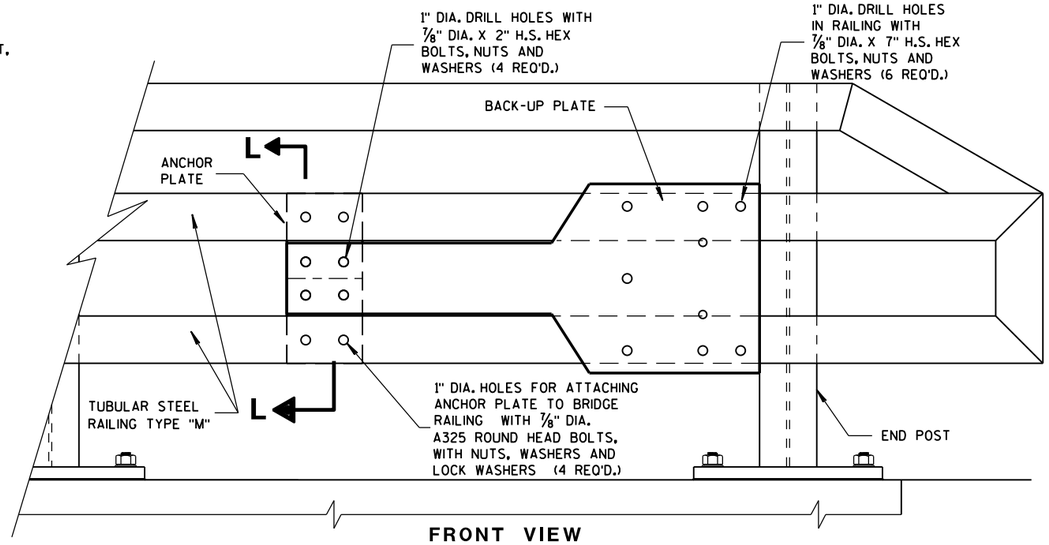


PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

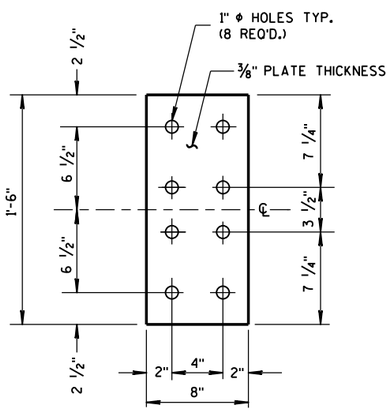


SECTION L-L



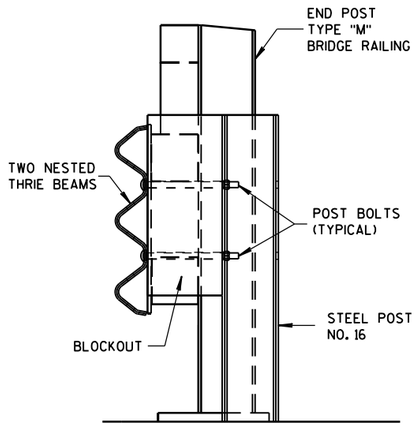
FRONT VIEW

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

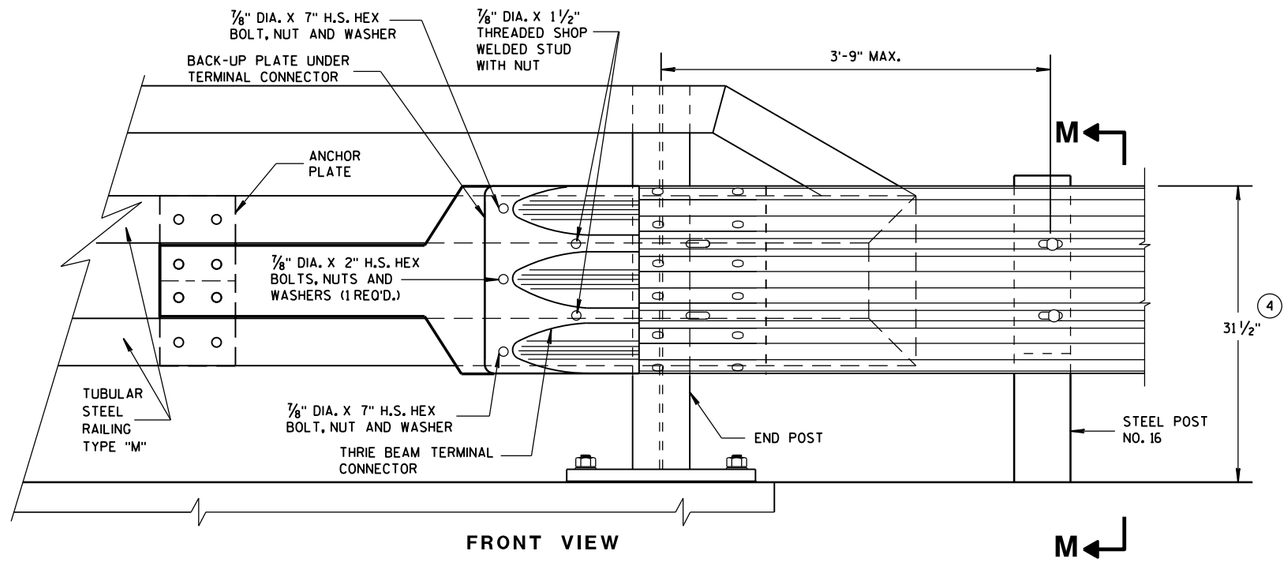


FRONT VIEW

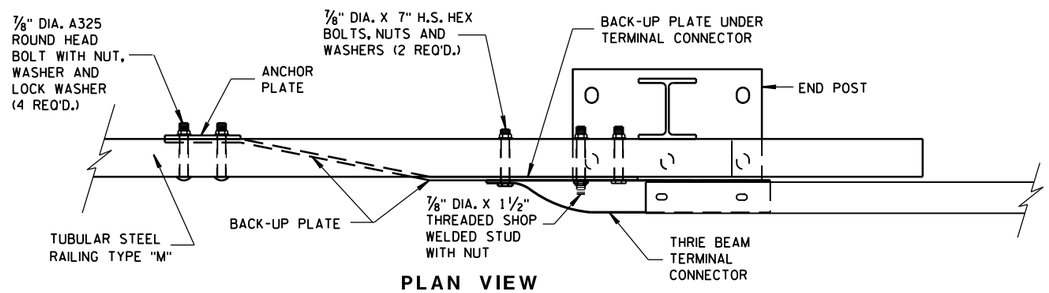
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

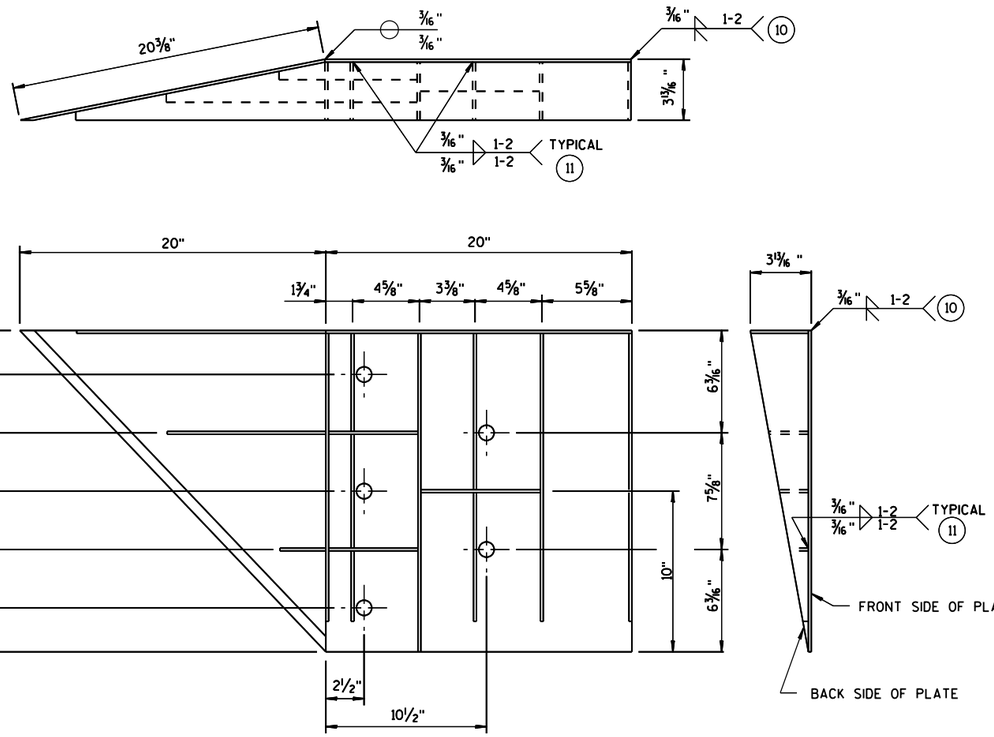
APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

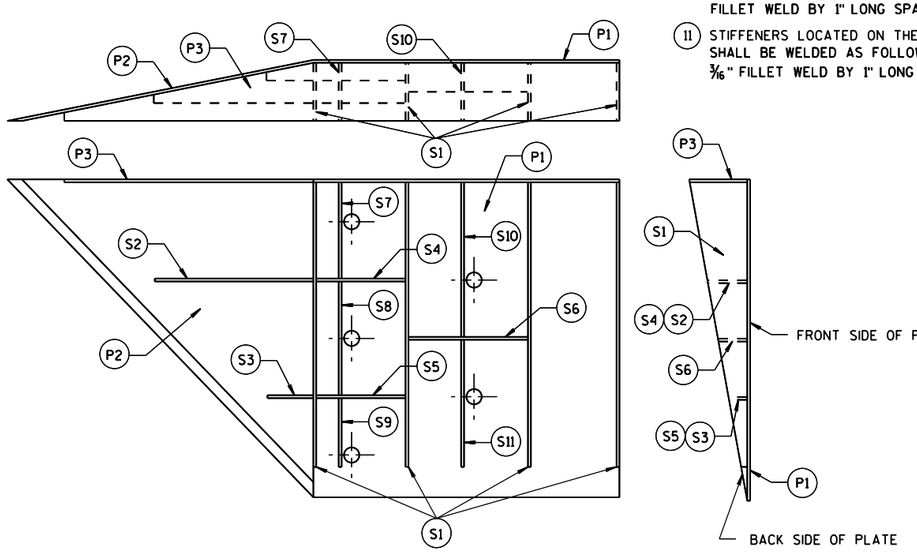


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

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

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

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

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

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

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

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

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

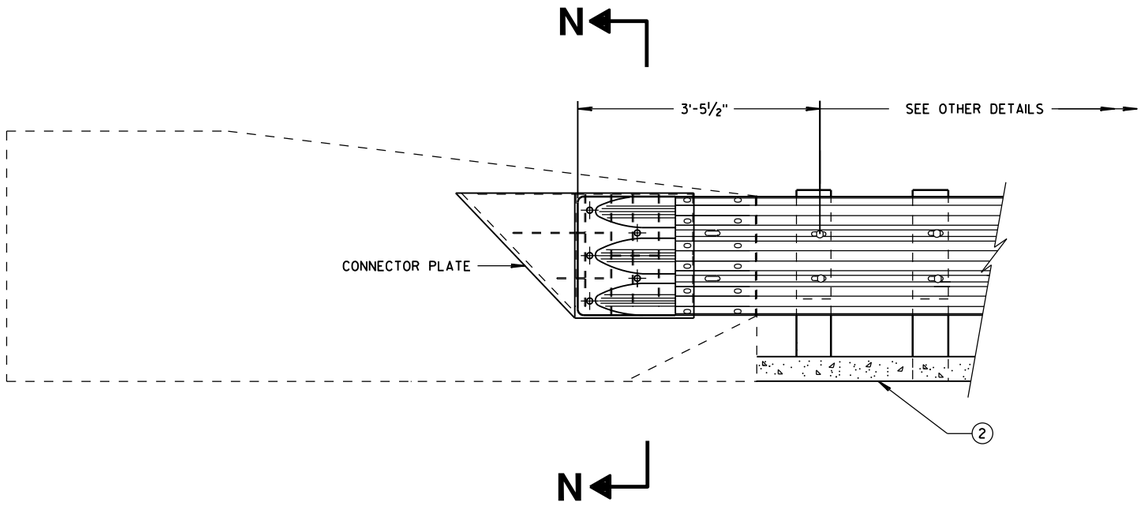
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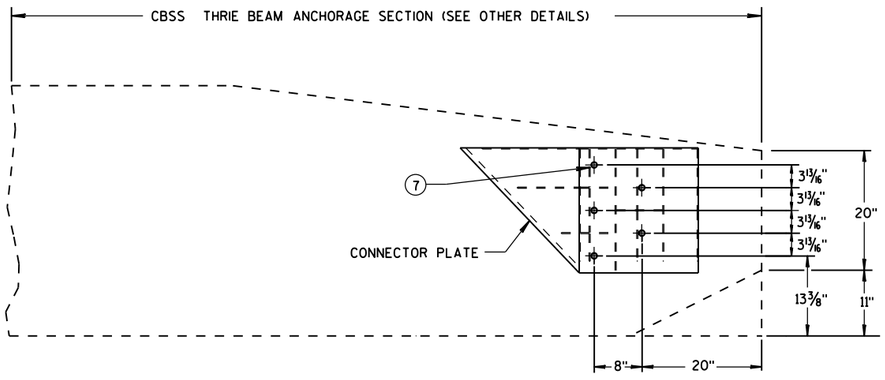
S.D.D. 14 B 45-4i

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S.D.D. 14 B 45-4i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



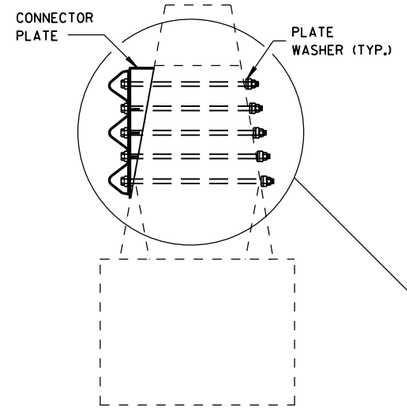
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

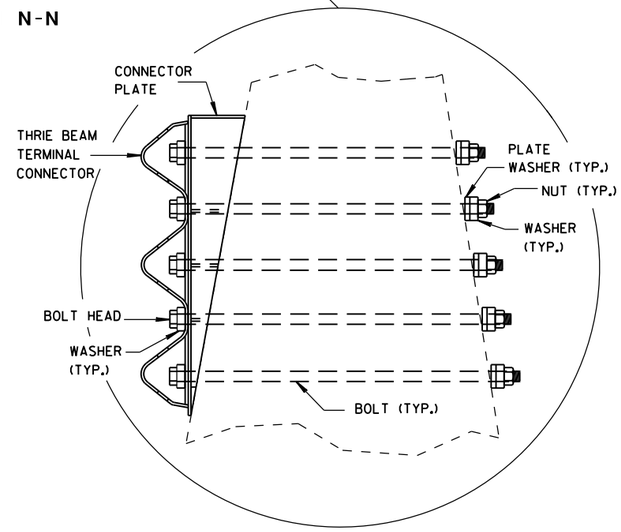
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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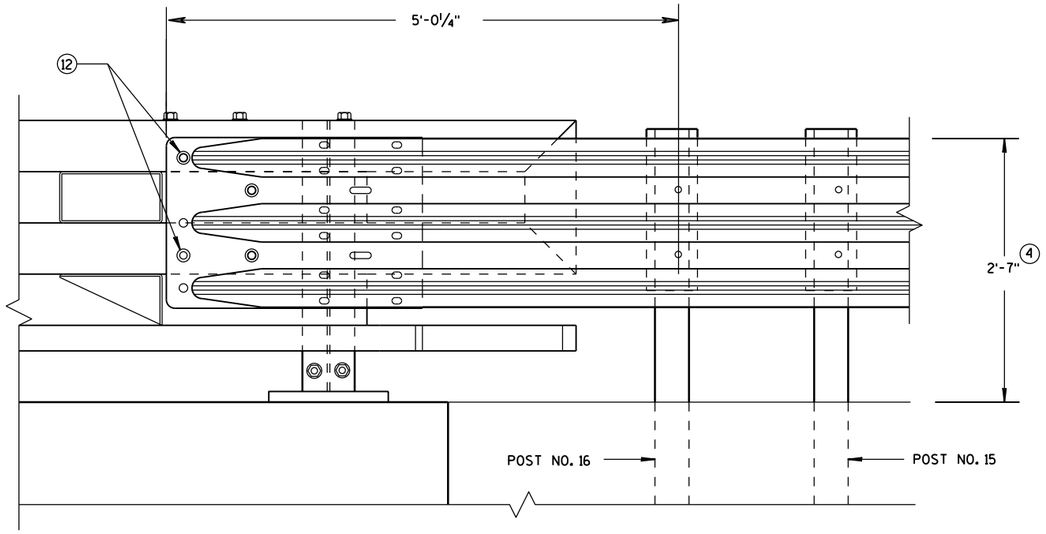
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S.D.D. 14 B 45-4j

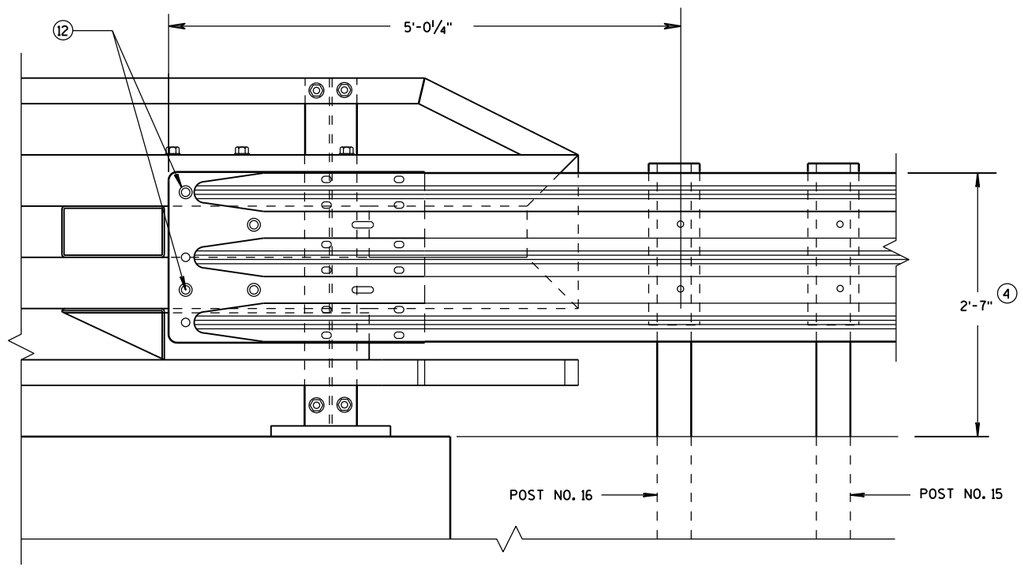
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S.D.D. 14 B 45-4j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

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

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND ½-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

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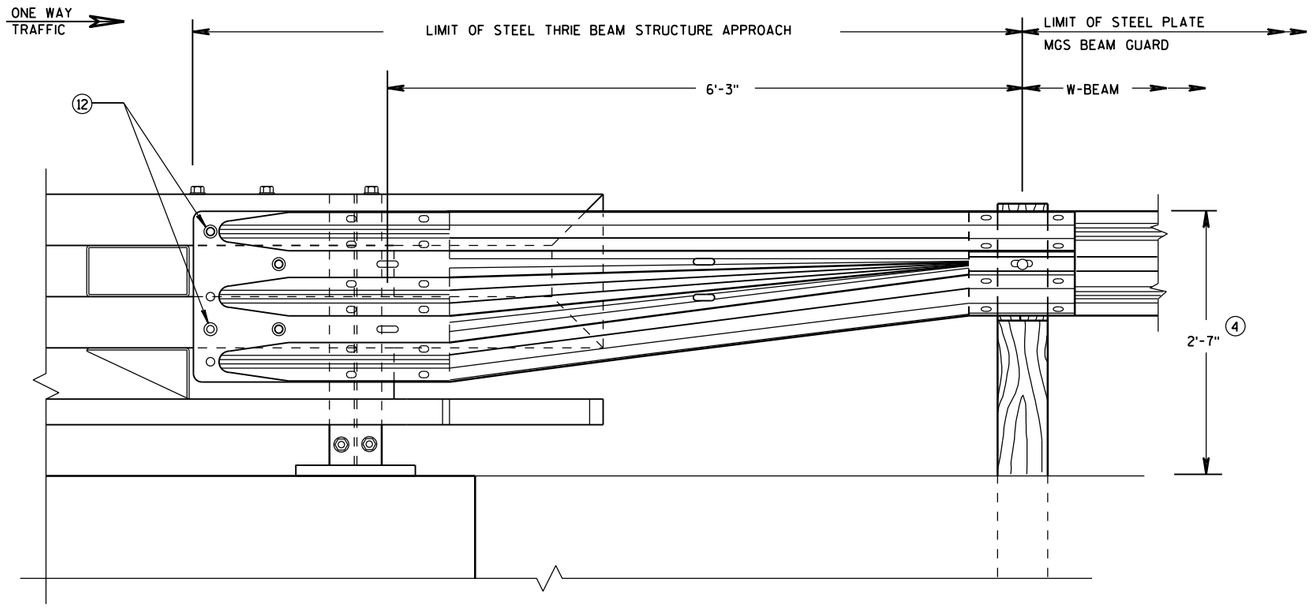
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S.D.D. 14 B 45-4k



FRONT VIEW

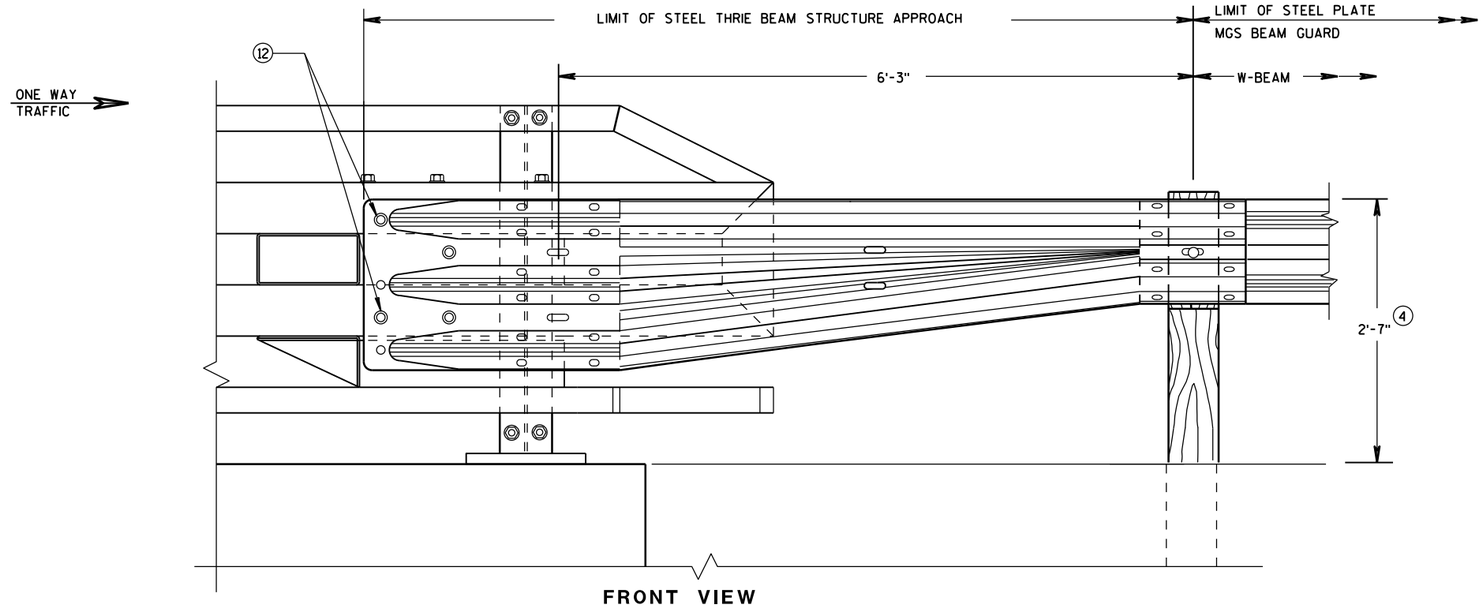
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

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

GENERAL NOTES

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

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND ½-INCH BEYOND NUT.



FRONT VIEW

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

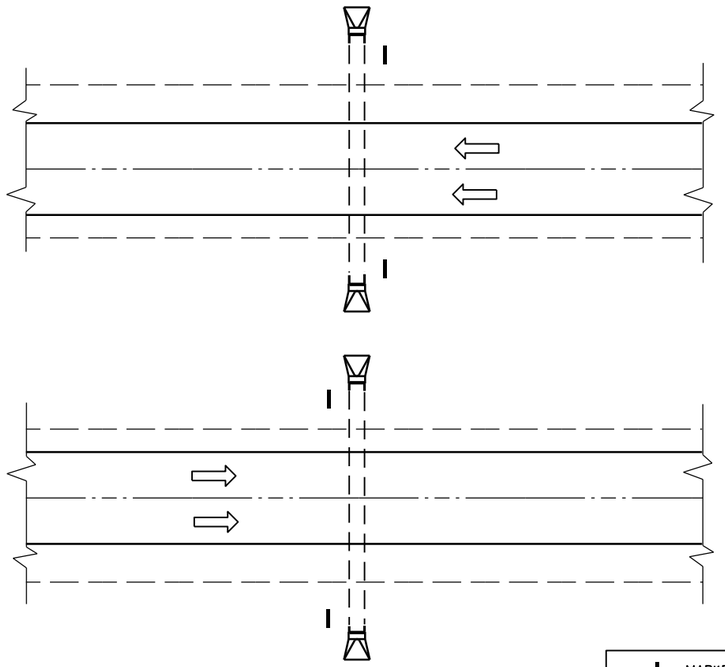
(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

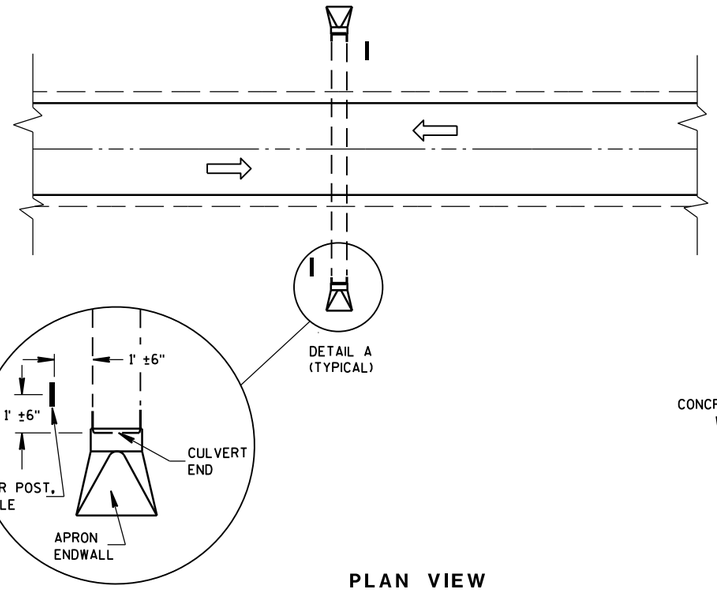
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PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

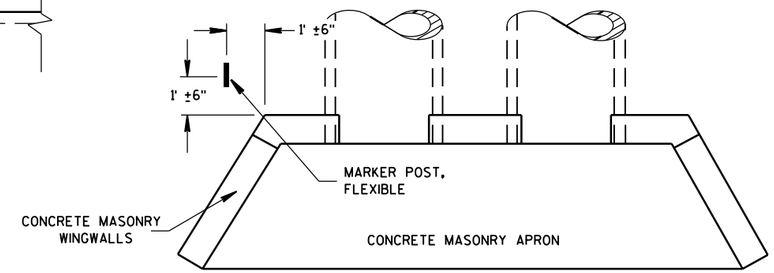
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

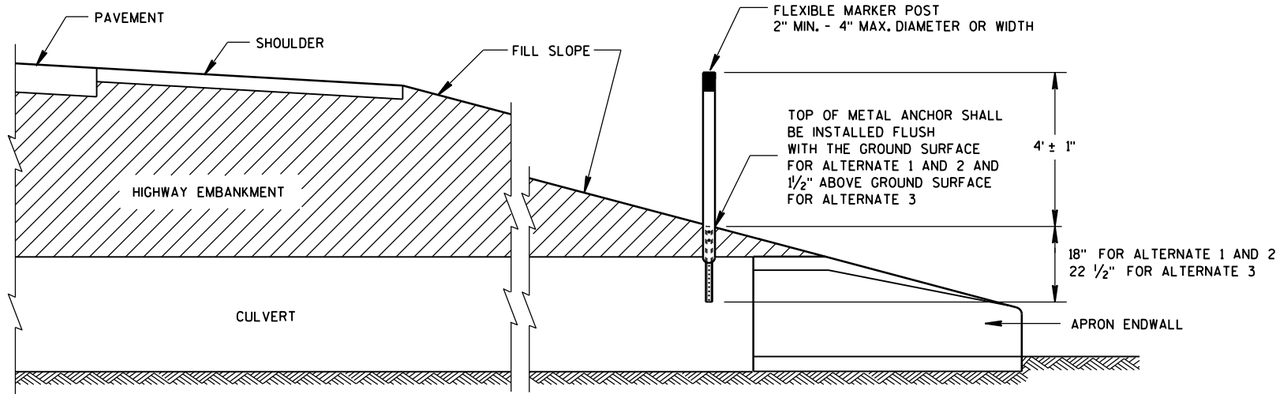
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

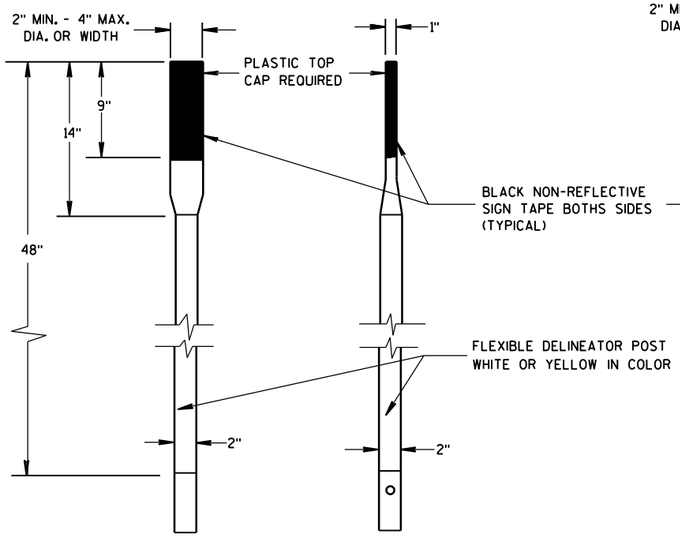
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

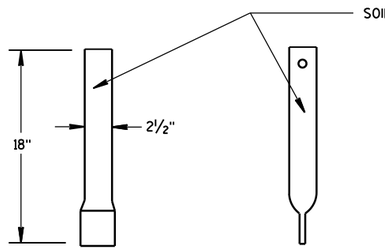
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S.D.D. 15 A 3-2a

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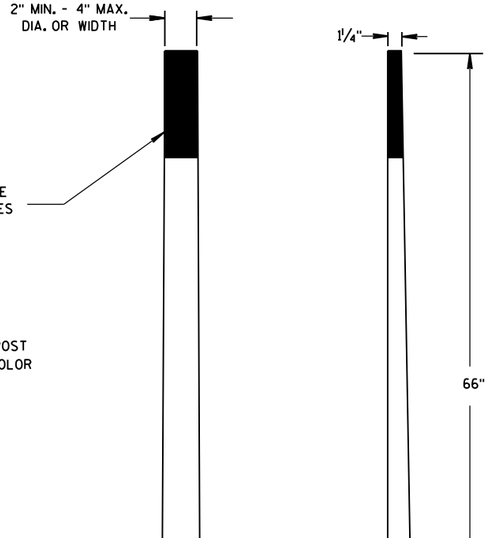
S.D.D. 15 A 3-2a





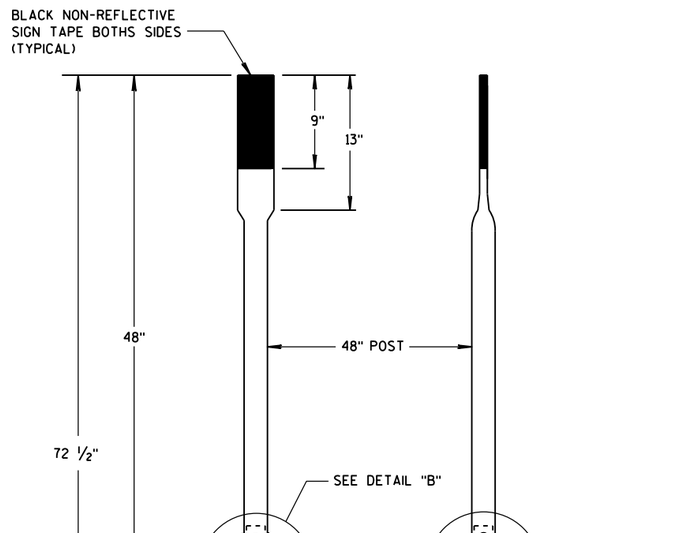
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

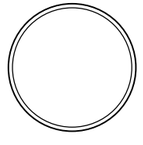
ALTERNATE 2



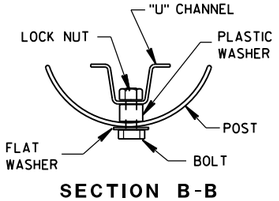
FRONT VIEW SIDE VIEW

ALTERNATE 3

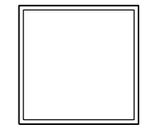
FLEXIBLE MARKER POSTS



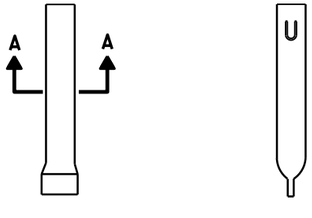
SECTION A-A



SECTION B-B

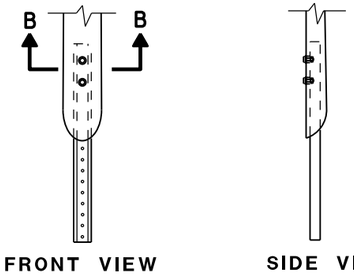


SECTION C-C



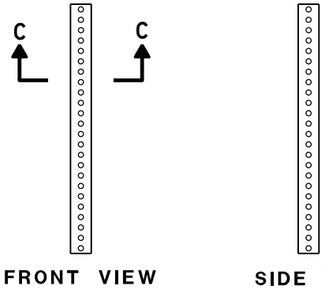
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

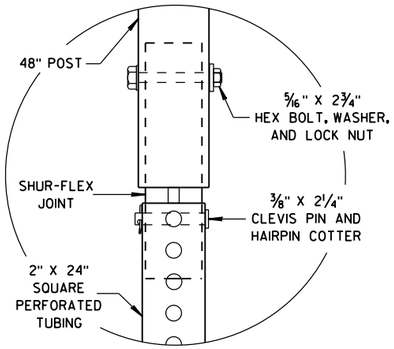
ALTERNATE 2



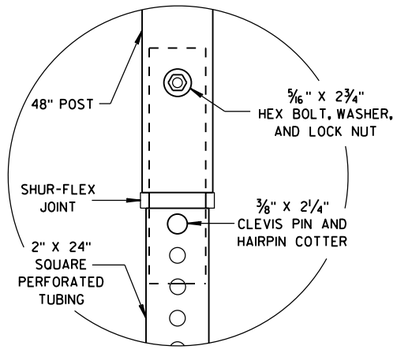
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
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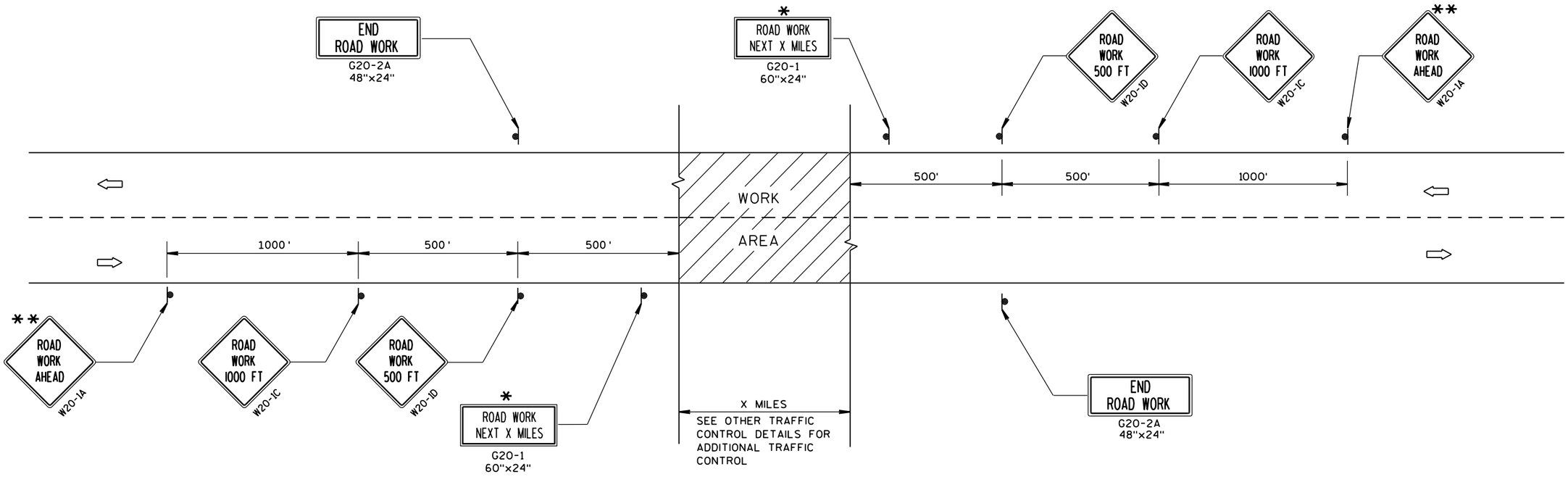
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S.D.D. 15 A 3-2b

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

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



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.

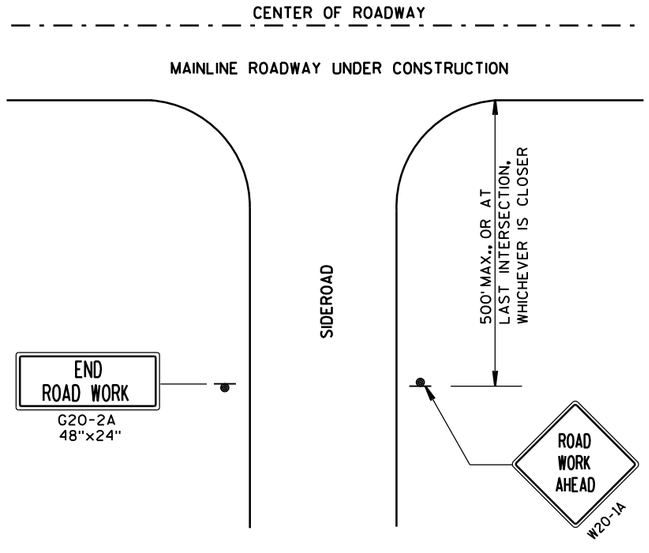
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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.

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

** PLACE 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

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

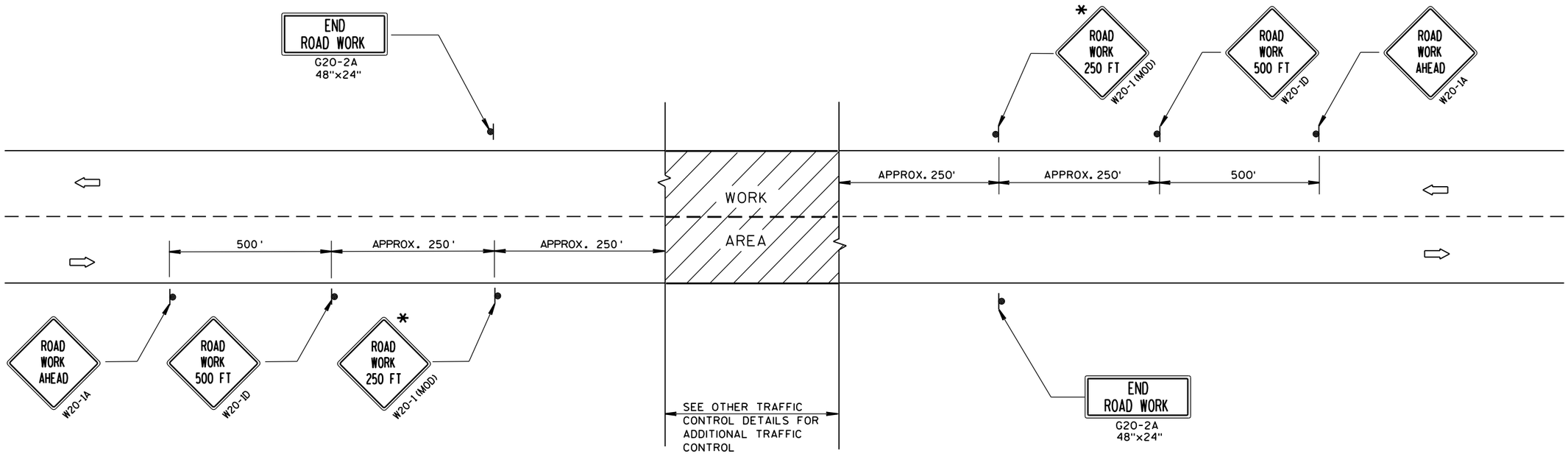
APPROVED
Sept. 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENG
FHWA

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S.D.D. 15 C 4-4

S.D.D. 15 C 4-4

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

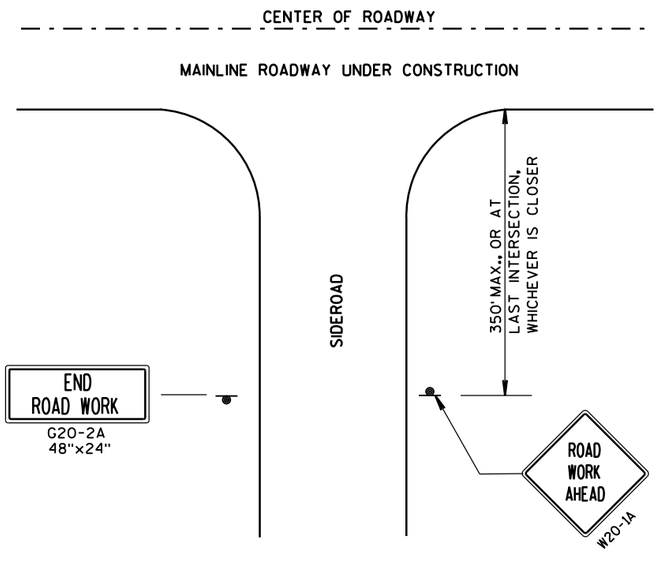
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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.

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



LEGEND

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

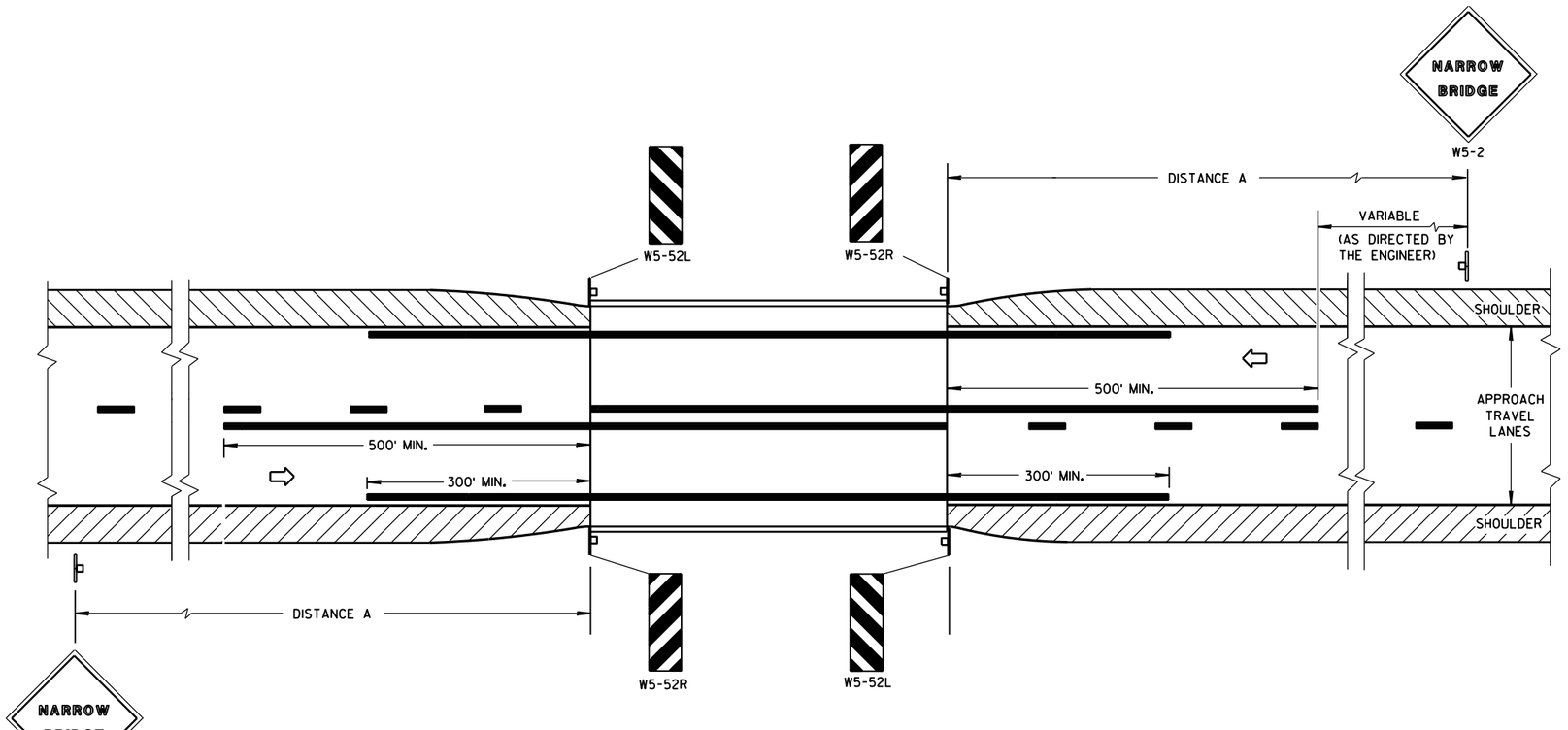
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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/S/ Andrew Heldtke — WORK ZONE ENG
FHWA

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S.D.D. 15 C 5-4

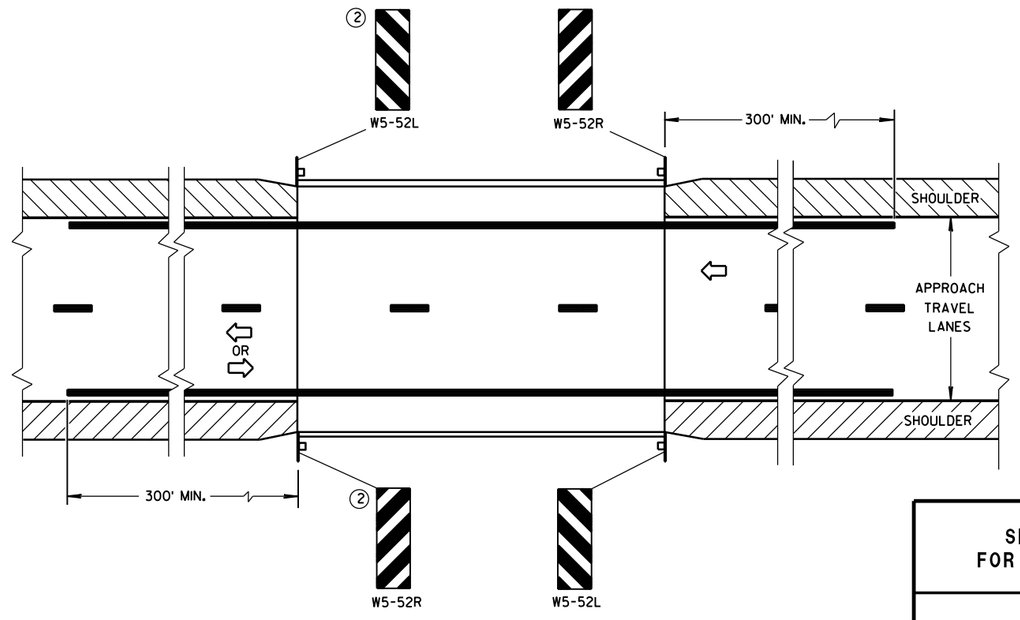


SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

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.

① LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

② OMIT ON ONE-WAY TRAVELLED WAYS.

③ EDGE OF W5-52 SIGN SHALL BE PLACED IN LINE WITH FACE OF CURB OR PARAPET.

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

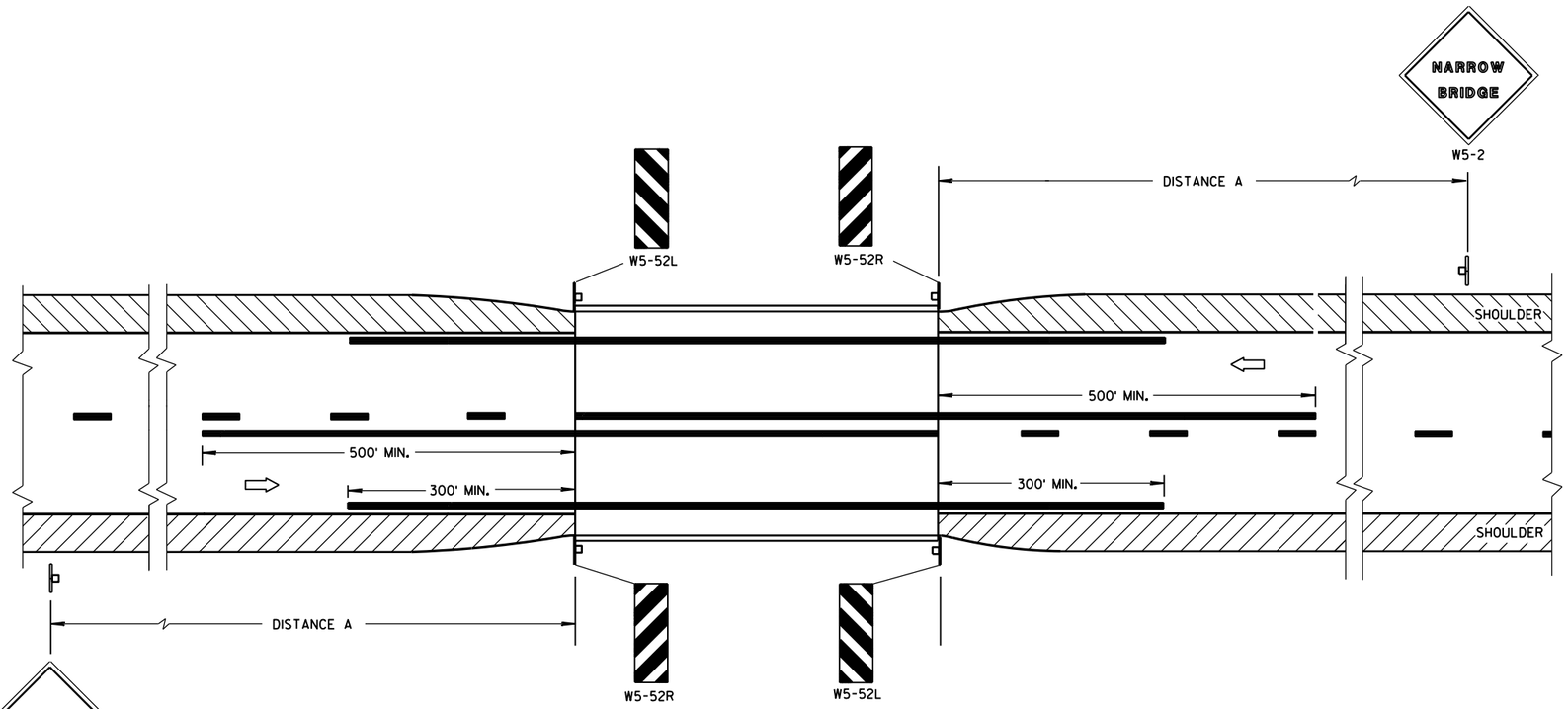
APPROVED
4-18-16 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]EER
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S.D.D. 15 C 6-8



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

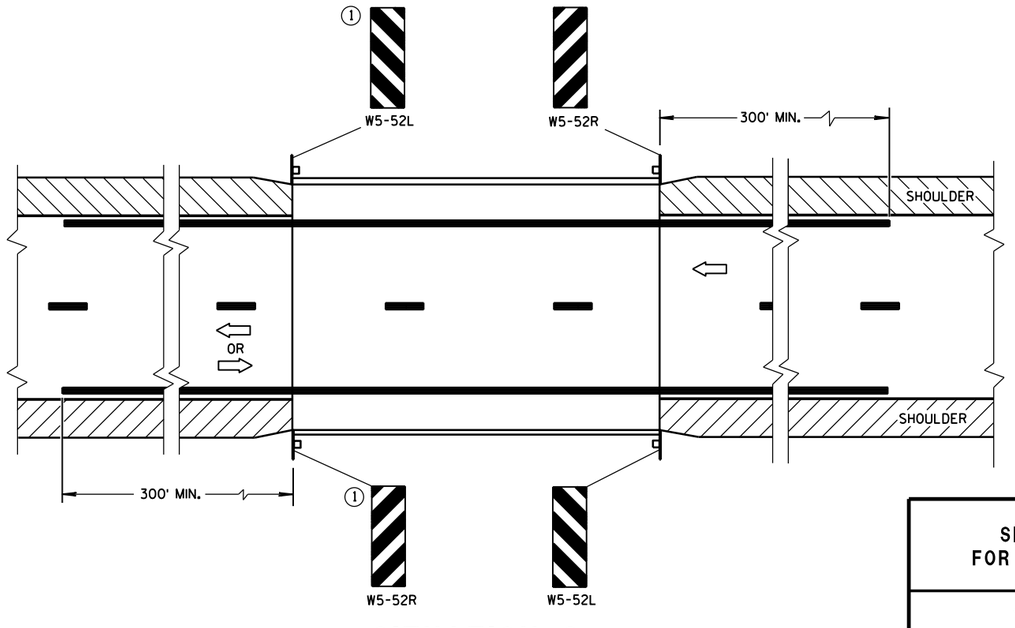
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC



SITUATION 2

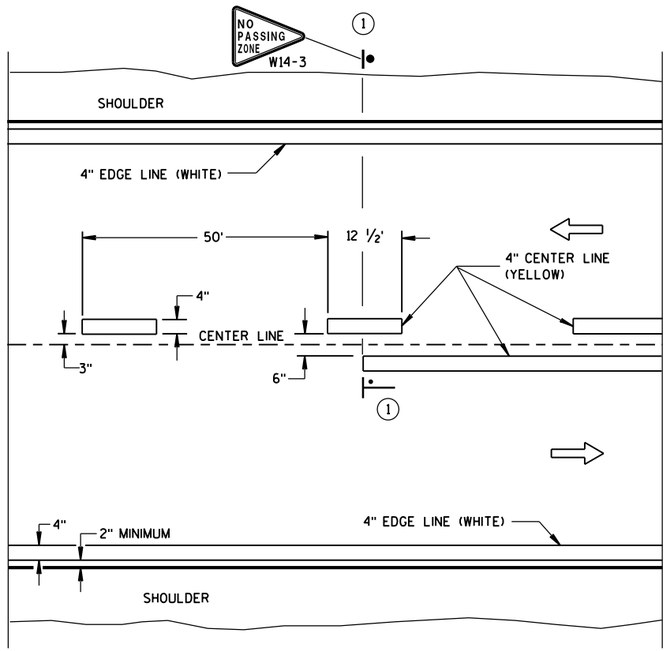
WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

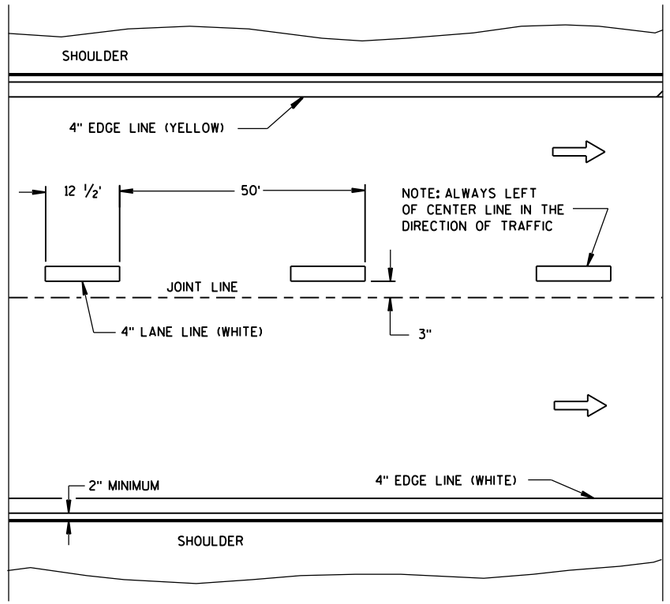
SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

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.

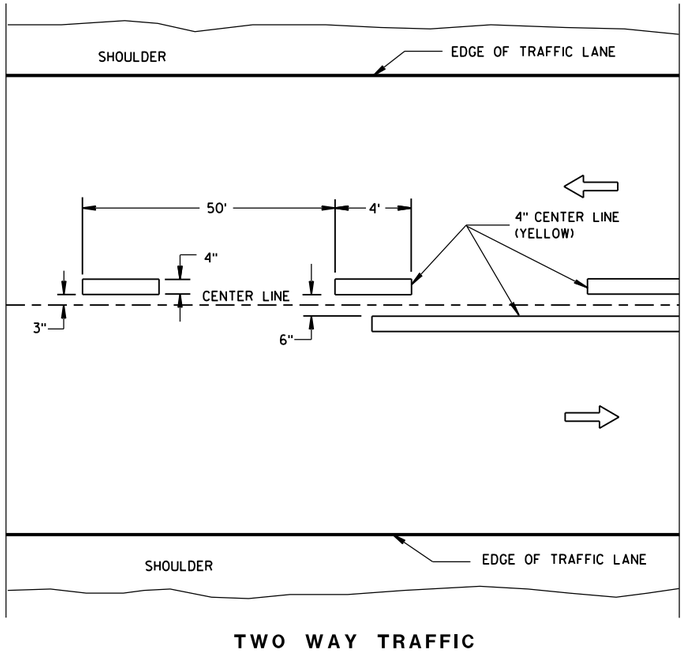
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

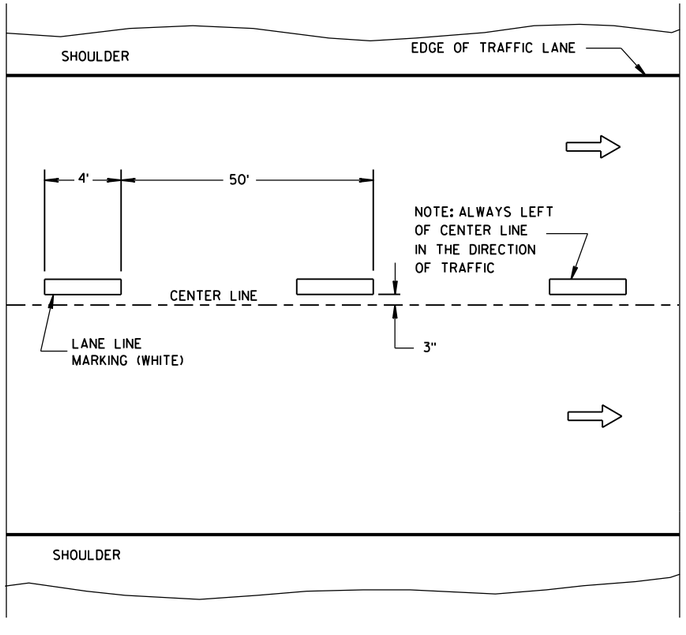
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



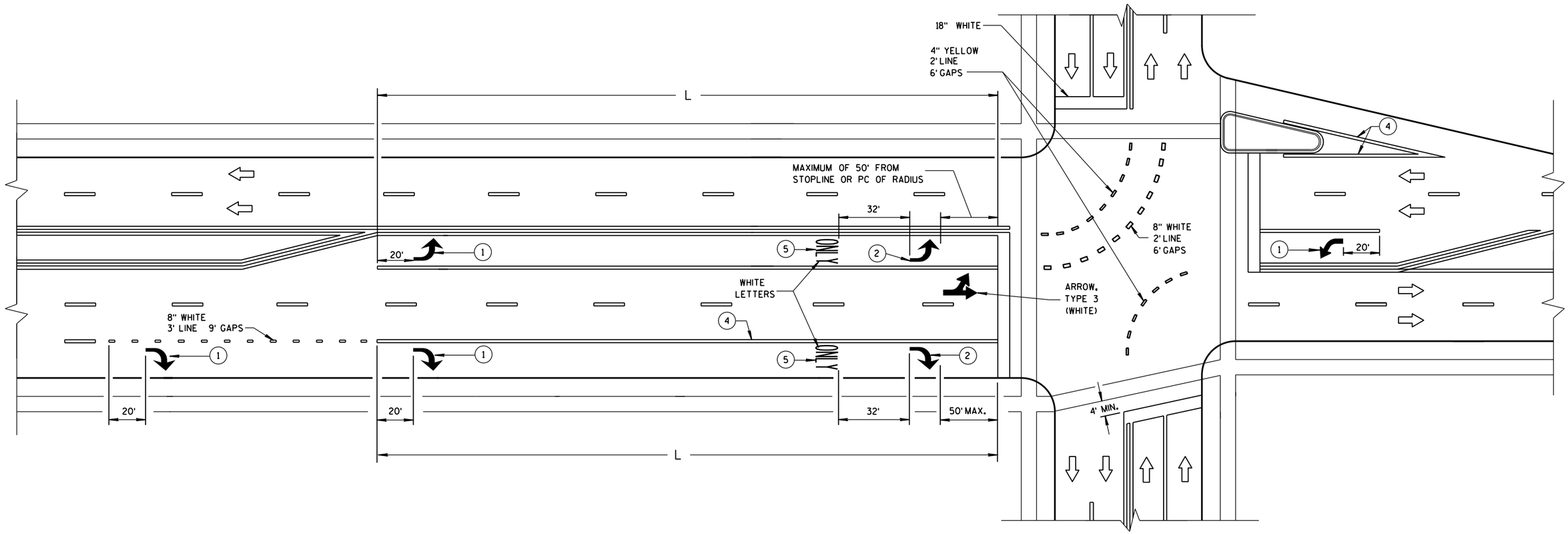
ONE WAY TRAFFIC

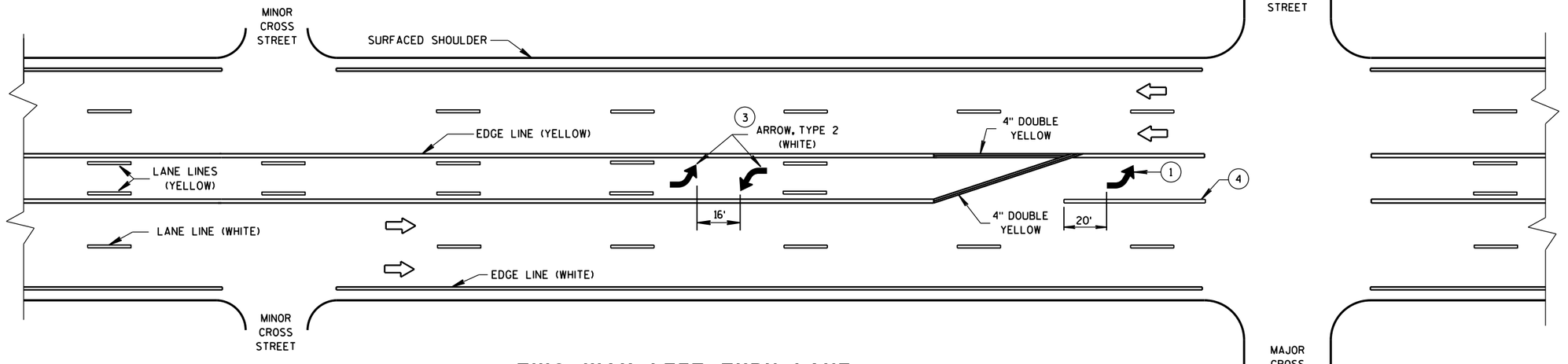
TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 (DATE)	/S/ Matthew R. Rauch (STATE SIGNING AND MARKING ENGINEER)
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S.D.D. 15 C 8-18a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

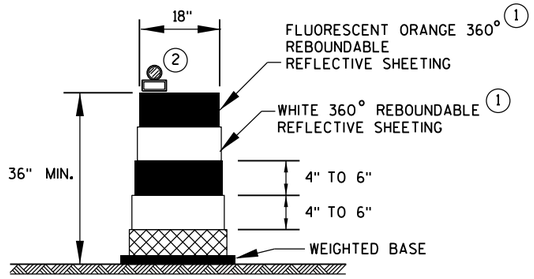
TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(TURN LANES)

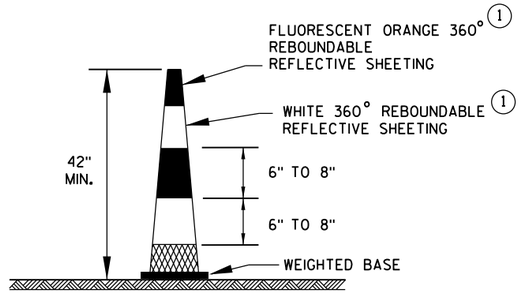
STATE OF WISCONSIN
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DRUM

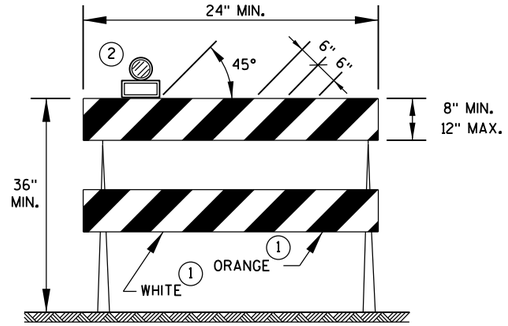


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

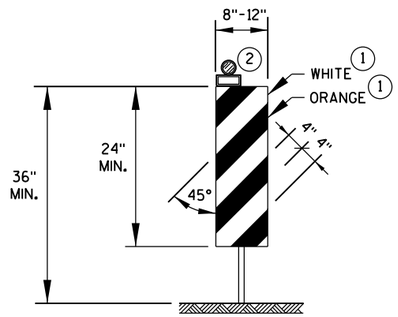
GENERAL NOTES

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.



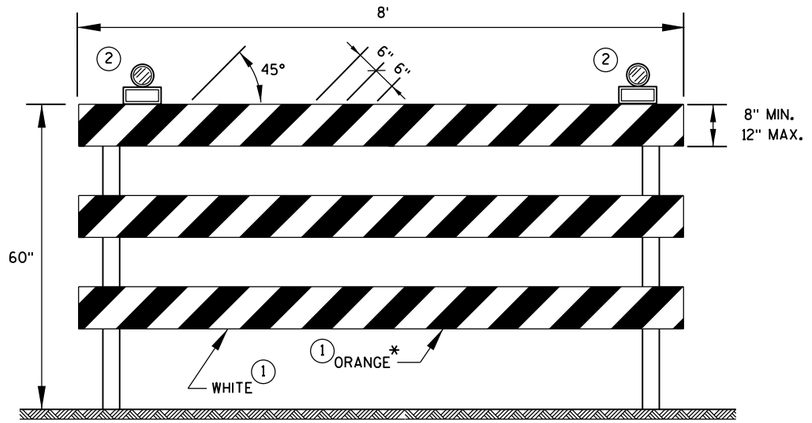
TYPE 2 BARRICADE

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



VERTICAL PANEL

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



TYPE 3 BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
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S.D.D. 15 C 11-7b

LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

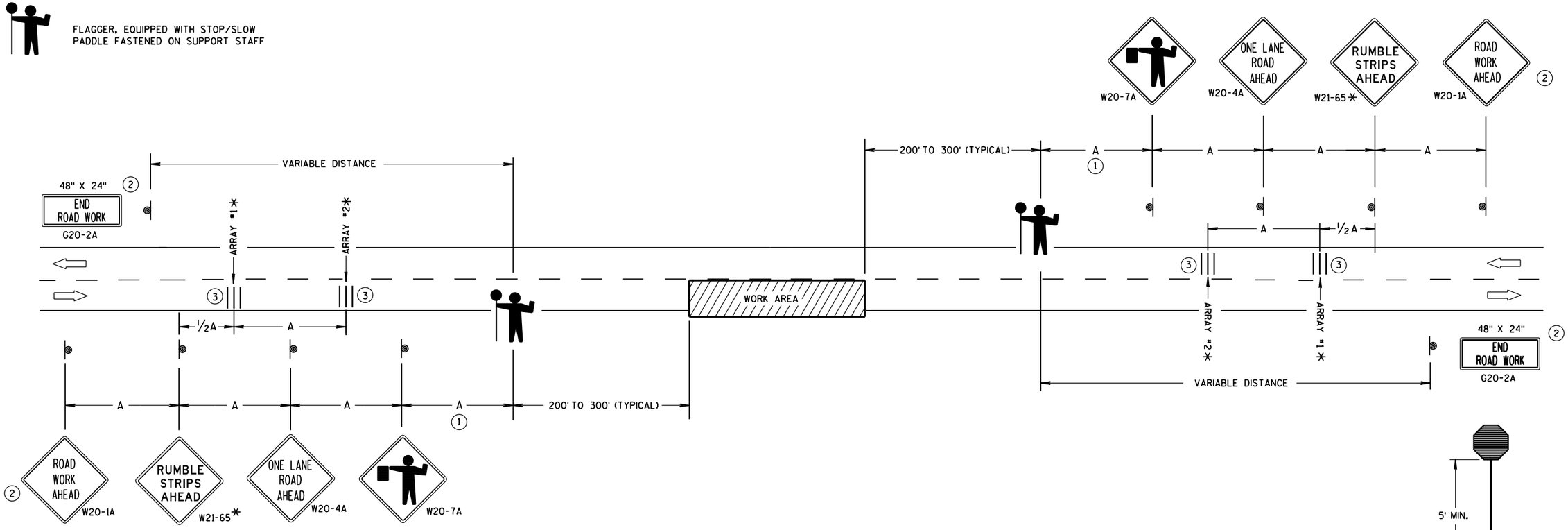
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

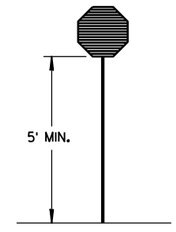
SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



W03-4

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





STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE 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.

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

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

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 RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT 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.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

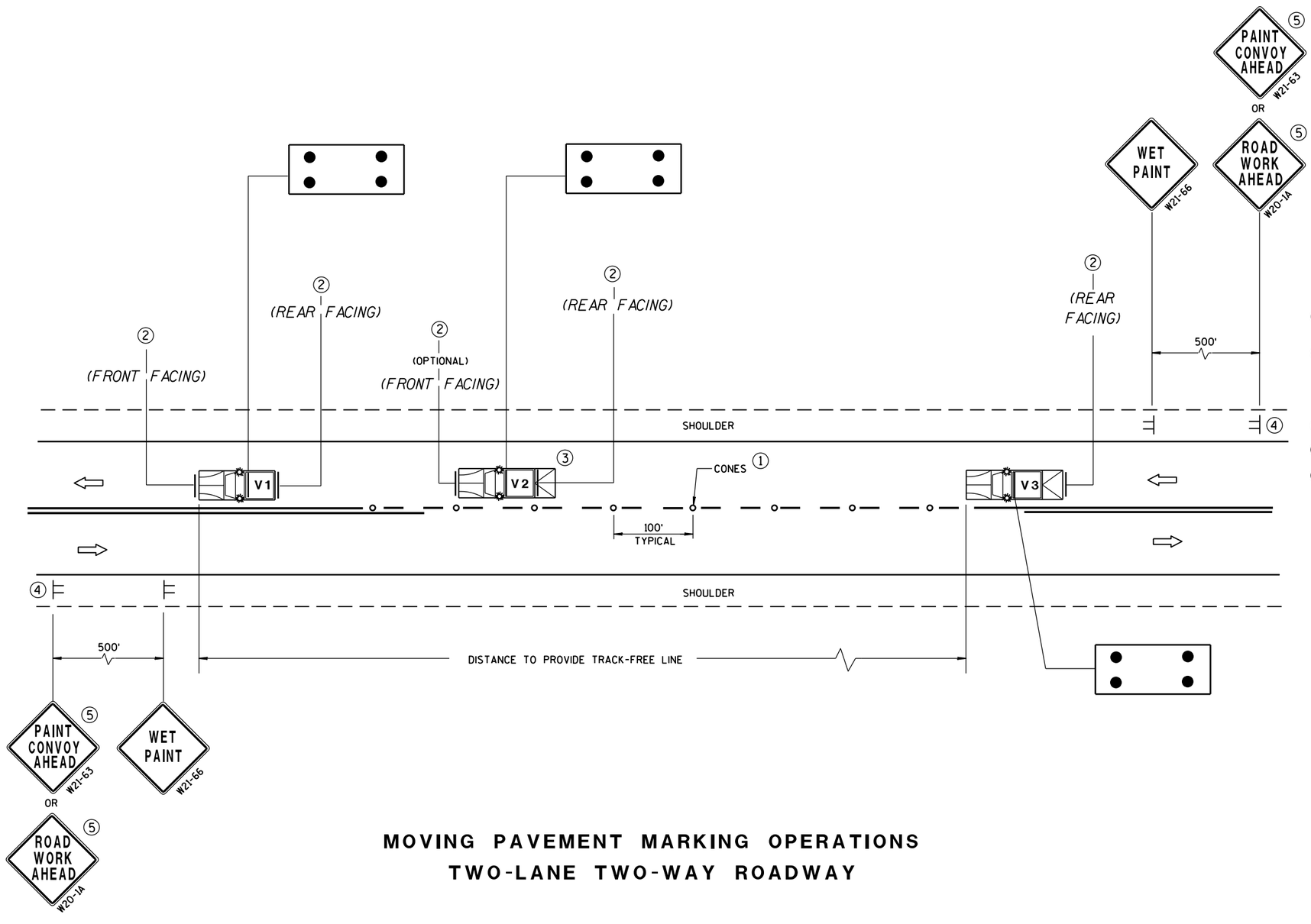
STATE OF WISCONSIN
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APPROVED
June 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENG
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S.D.D. 15 C 12-6



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

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

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

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

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

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

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

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

LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

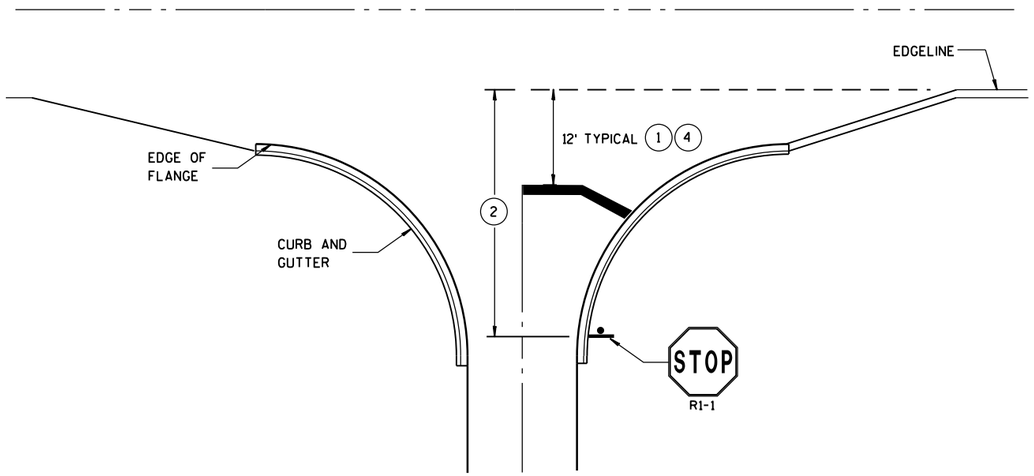
MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2017 DATE	/S/ Andrew Heldtke WORK ZONE ENGR
FHWA	208

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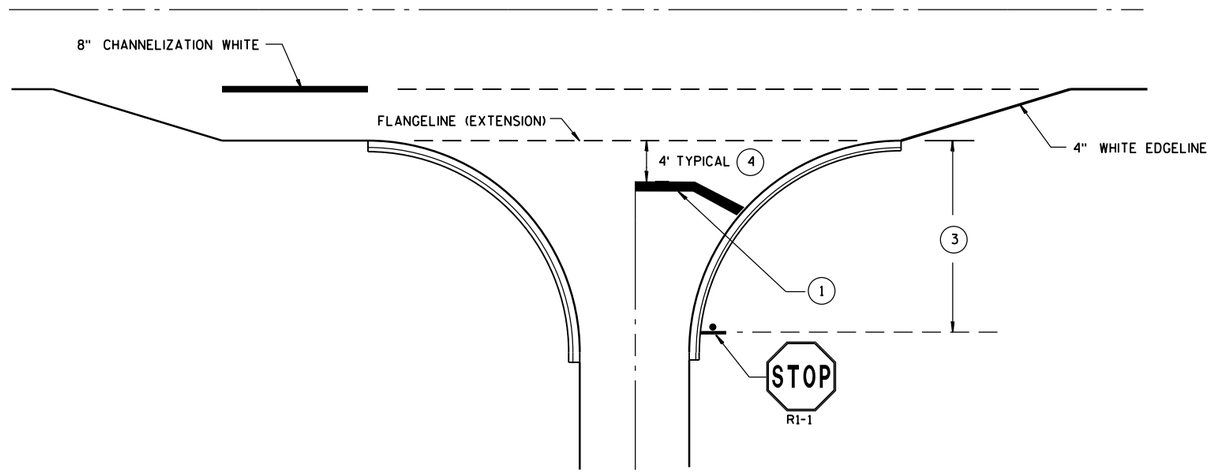
S.D.D. 15 C 19-5a

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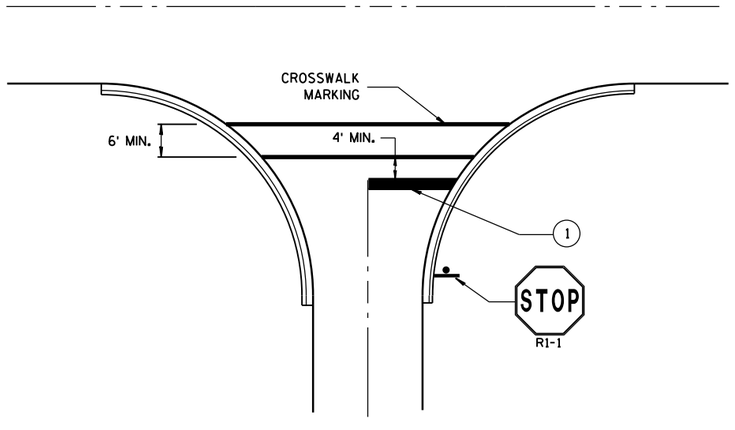
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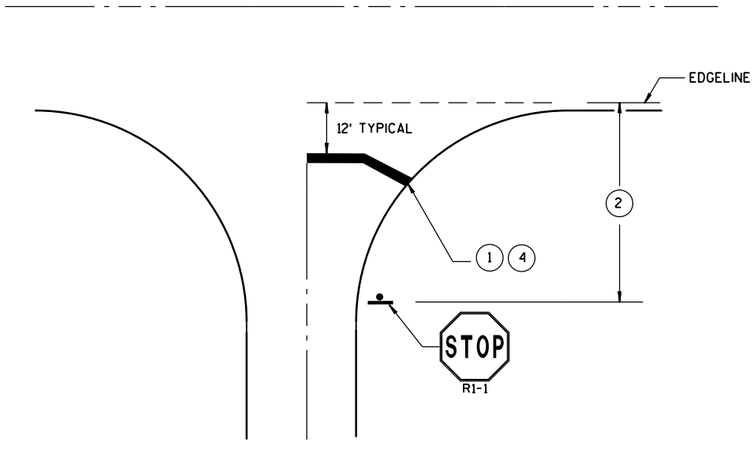
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS 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 PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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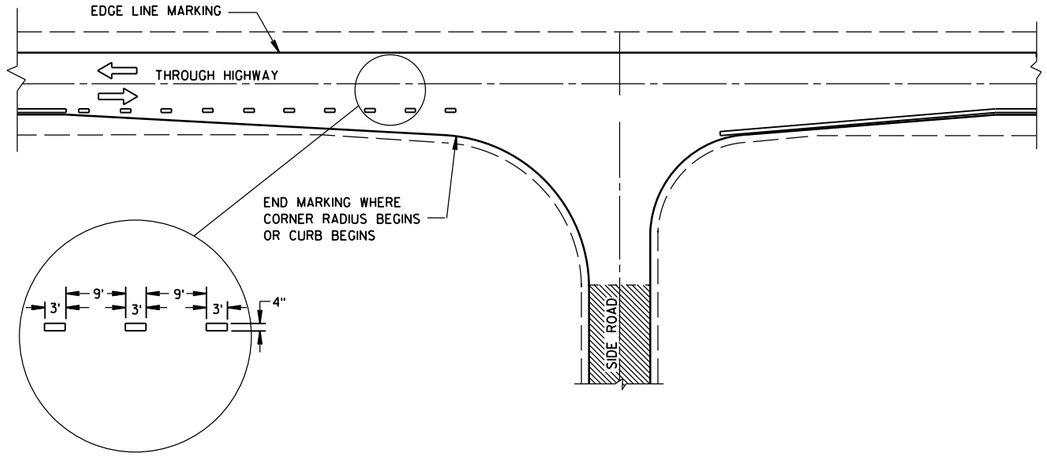
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER

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S.D.D. 15 C 33-3



MINOR INTERSECTION

GENERAL NOTES

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

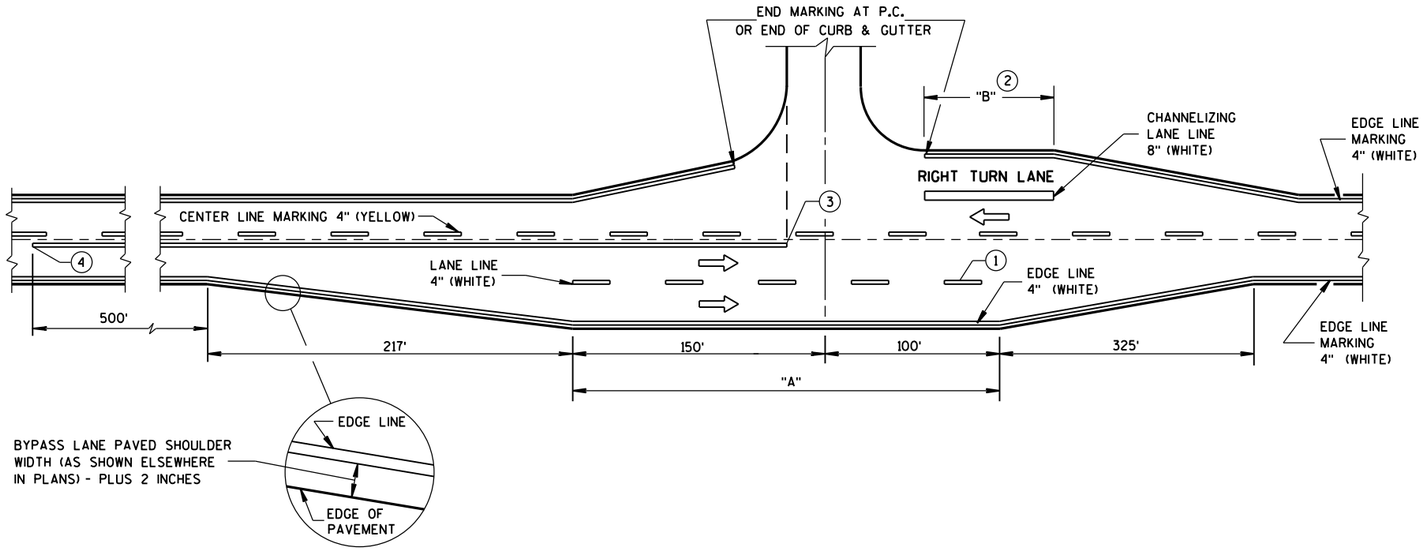
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(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.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 35-2a

GENERAL NOTES

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

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

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

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.

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.

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

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

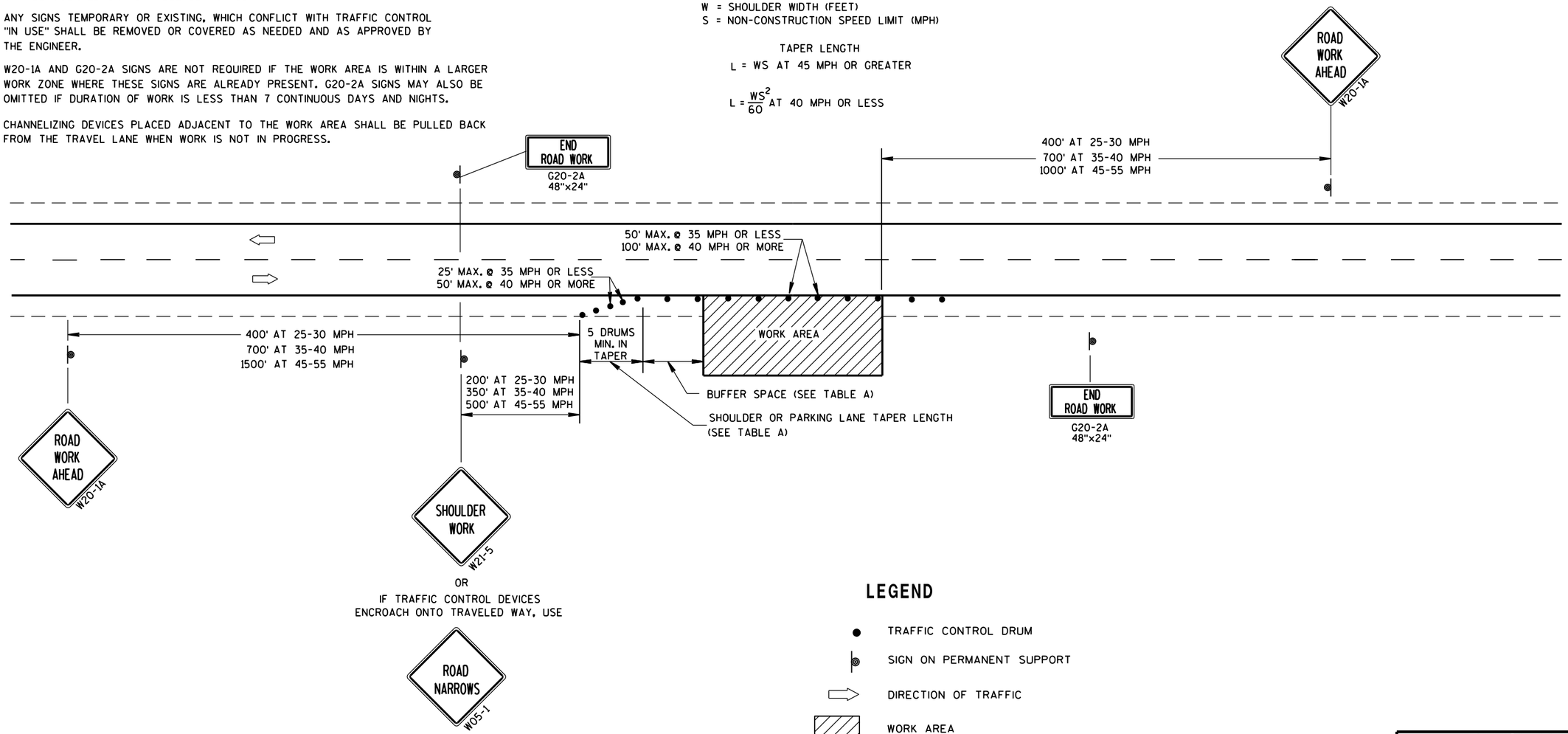
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

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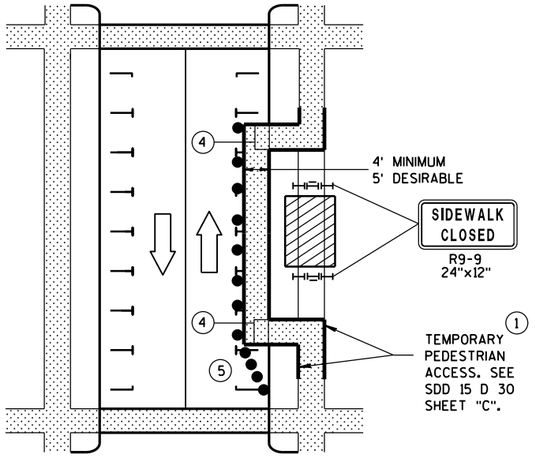
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S.D.D. 15 D 28-3

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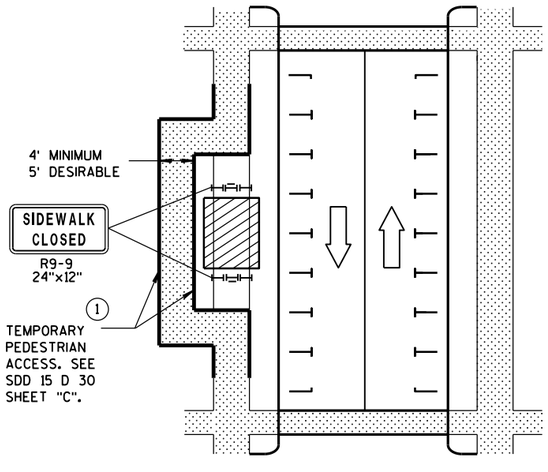
S.D.D. 15 D 28-3

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

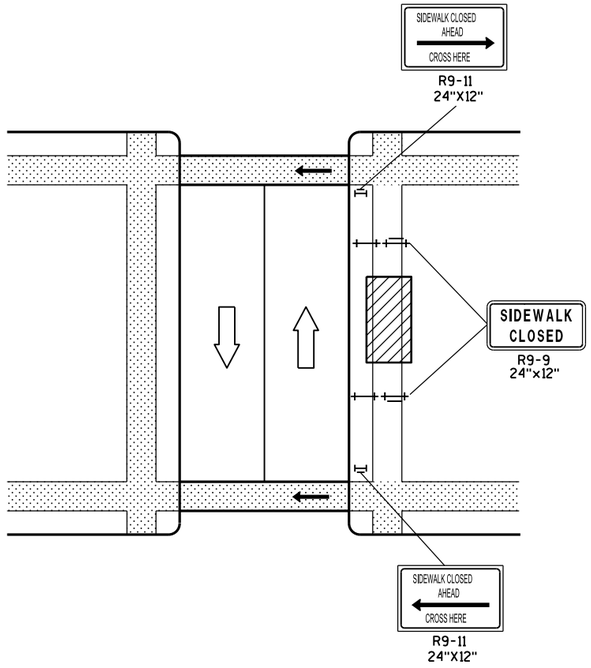


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

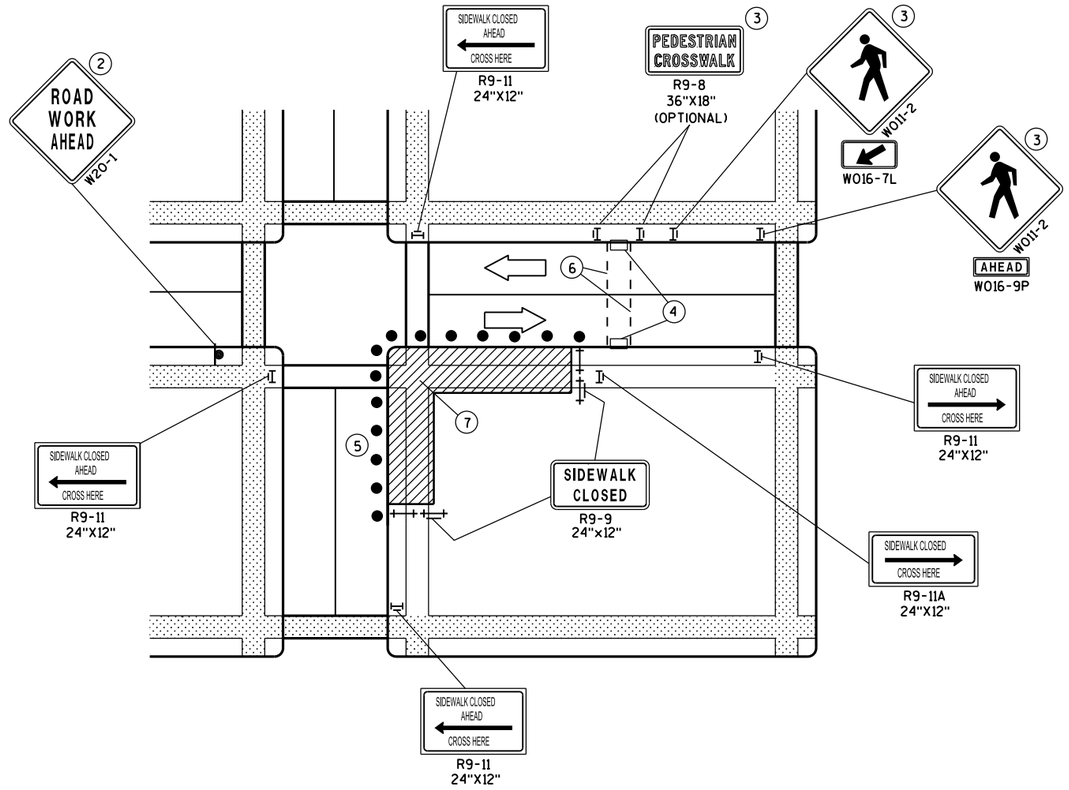
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

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

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

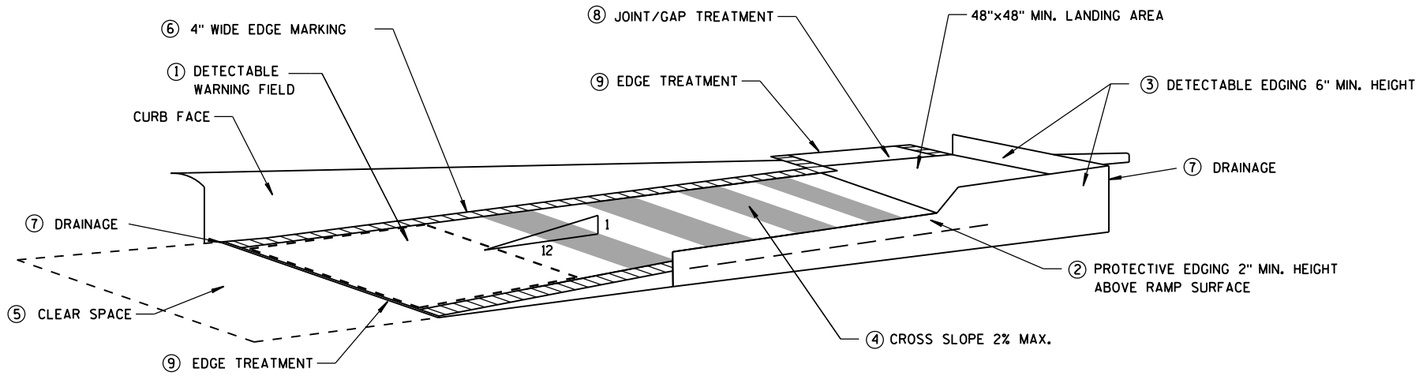
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 30-3a

6

S.D.D. 15 D 30-3a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

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

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

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

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

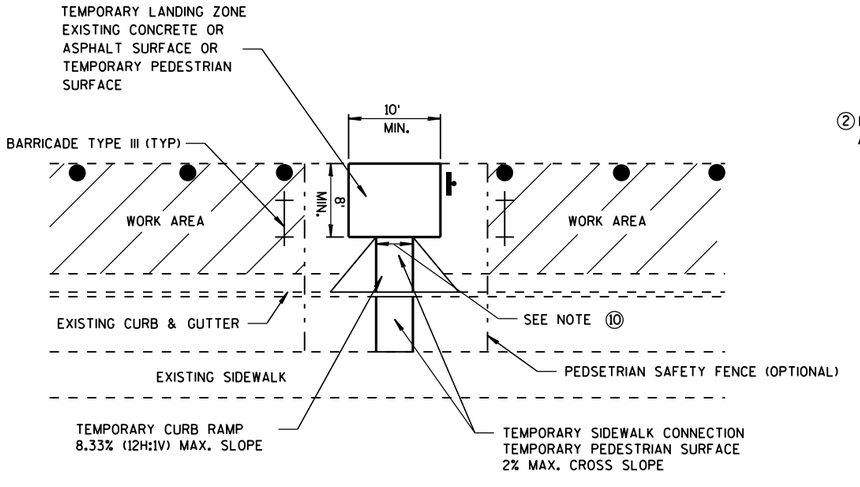
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

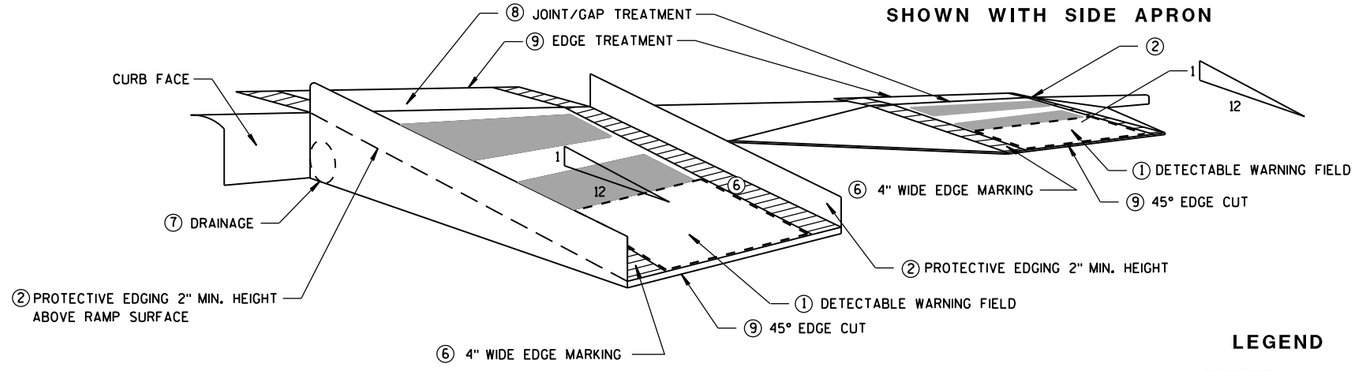
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH PROTECTIVE EDGE

SHOWN WITH SIDE APRON

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

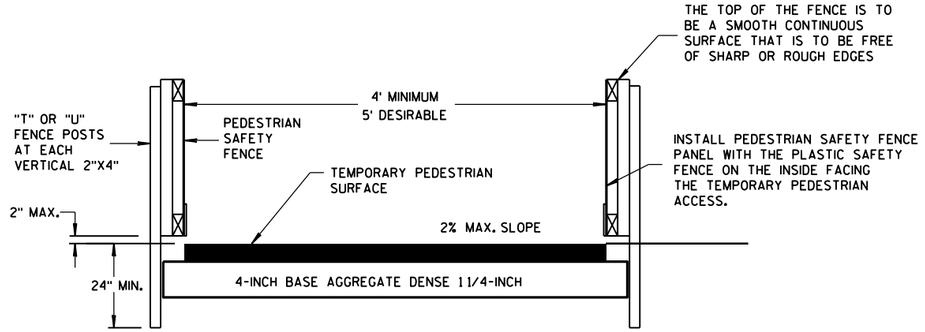
FHWA

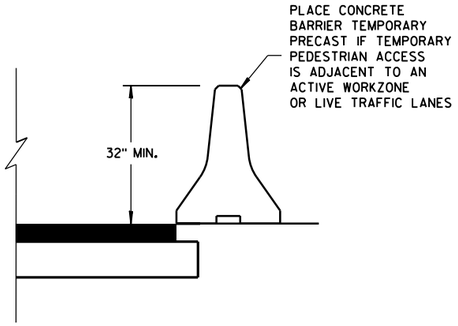
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S.D.D. 15 D 30-3b

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S.D.D. 15 D 30-3b

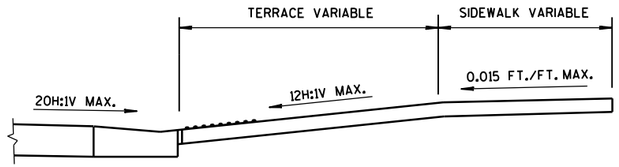




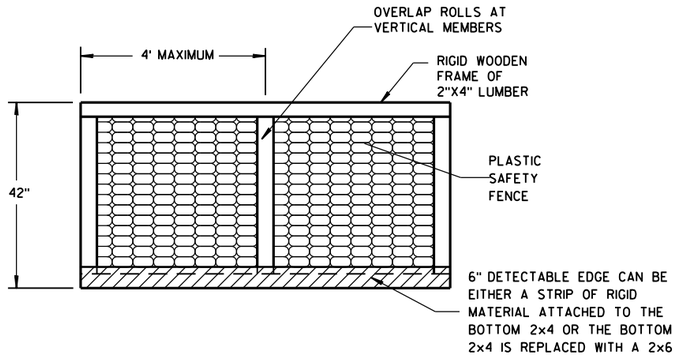
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

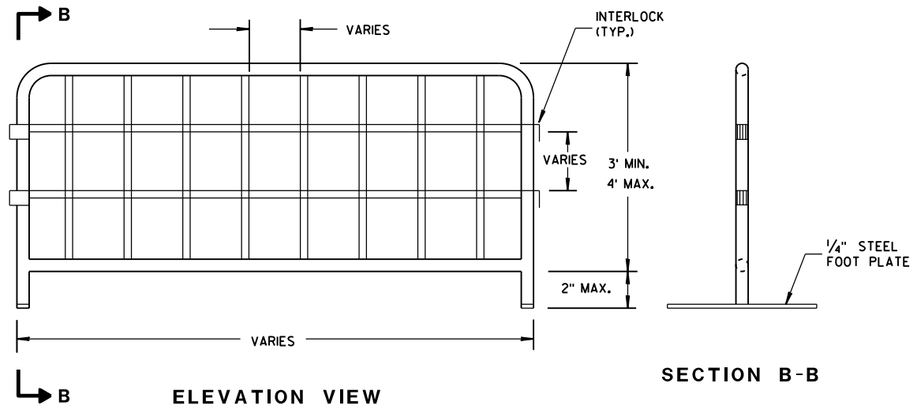
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



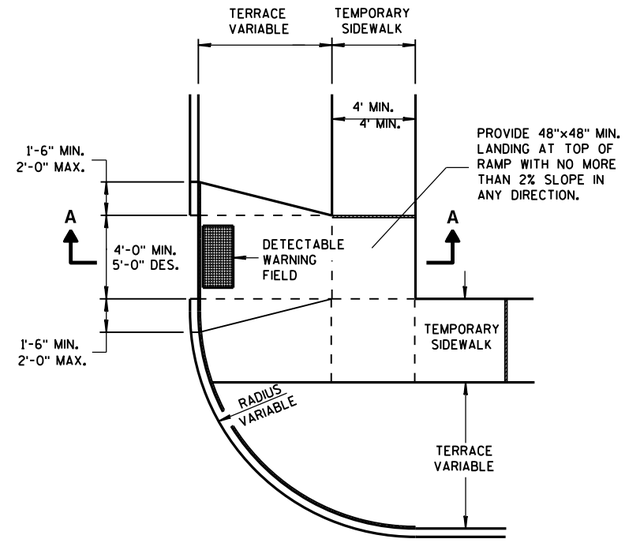
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

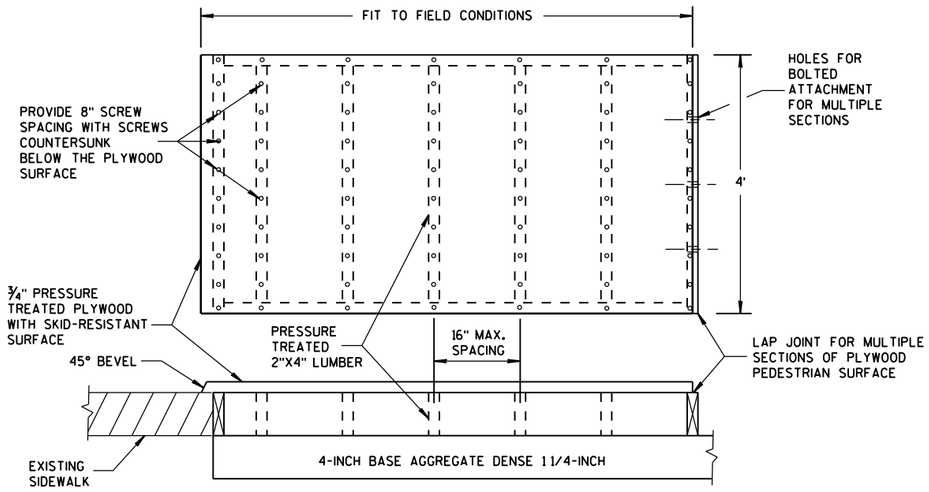
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



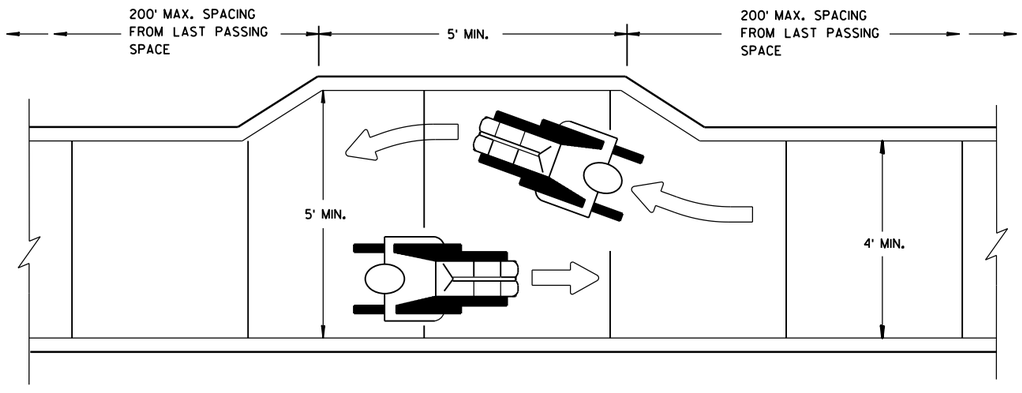
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016
DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON SAFETY ENGIN IC
FHWA

6

S.D.D. 15 D 30-3c

6

S.D.D. 15 D 30-3c

LEGEND

- SIGN ON PERMANENT SUPPORT
- REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- CONCRETE BARRIER TEMPORARY PRECAST
- FLAGS, 16" x 16" MIN., (ORANGE)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ASPHALTIC PAVEMENT WIDENING
- DIRECTION OF TRAFFIC
- 4" X 6" WOOD POST
- TEMPORARY SIGNAL WITH BACKPLATE AND 12-INCH LENSES ON BREAKAWAY POLE



INSTALL ON EACH APPROACH AT THE CLOSEST INTERSECTION WITH A STATE OR COUNTY TRUNK HIGHWAY, OR AS DIRECTED BY THE ENGINEER. WIDTH ON SIGN TO BE APPROX. 1-FOOT LESS THAN AVAILABLE WIDTH. (OMIT IF AVAILABLE WIDTH IS MORE THAN 16 FEET.)

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"x48" UNLESS OTHERWISE NOTED.

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

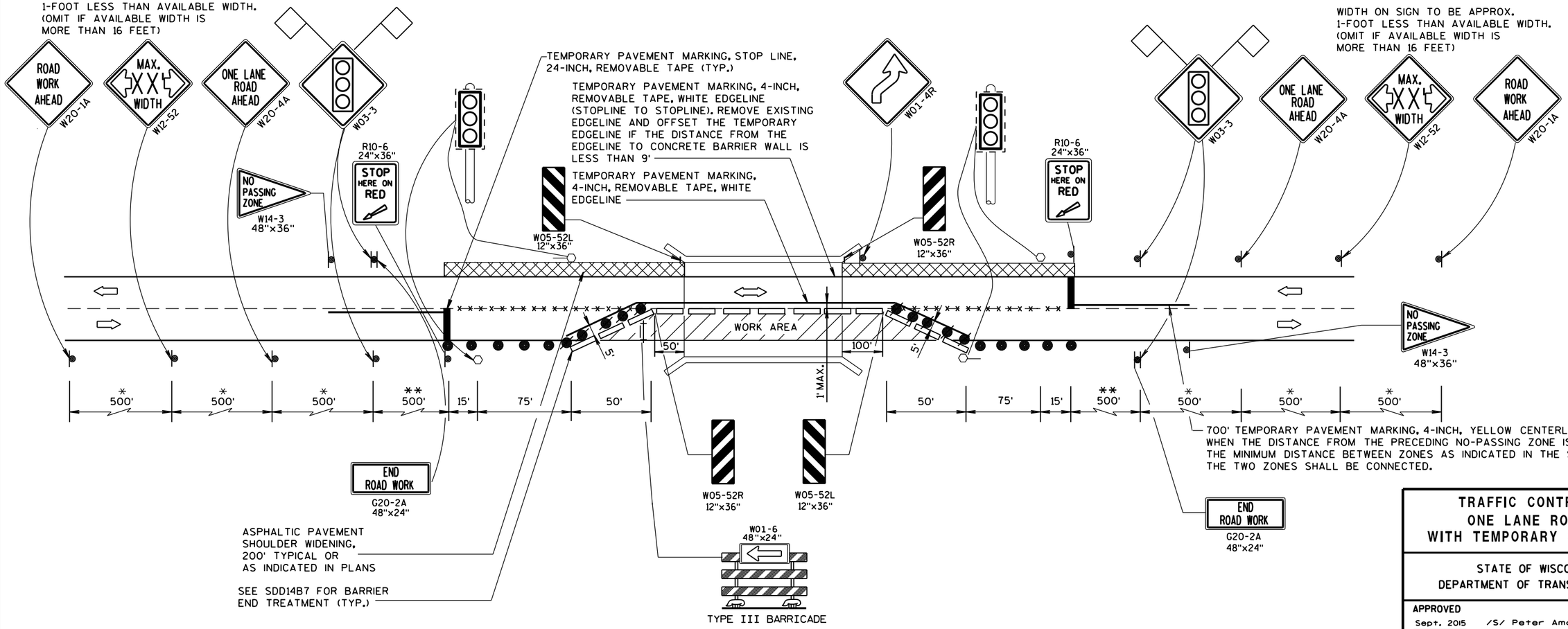
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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.

PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE, AND REMOVE EXISTING PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS OR AS NOTED ON DETAIL.

* 500-FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350-FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200-FOOT TYPICAL SPACING.

** USE 300' SPACING IF PRE-CONSTRUCTION REGULATORY SPEED LIMIT IS 35 MPH OR LESS.



TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

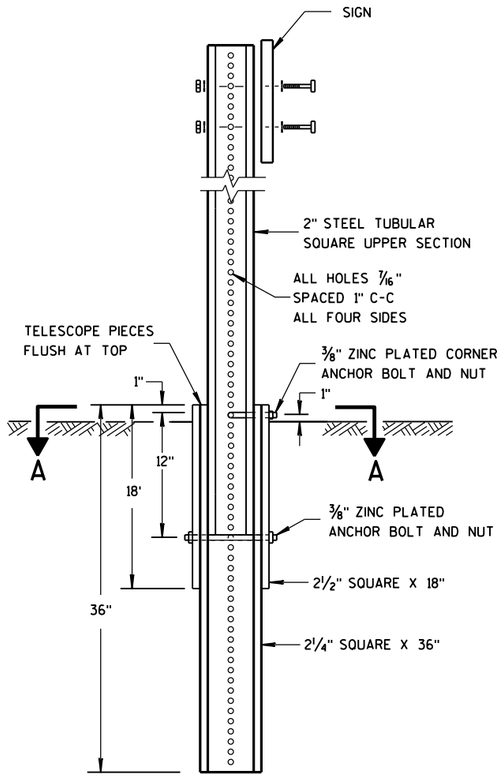
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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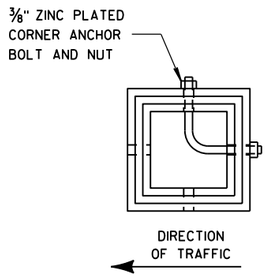
S.D.D. 15 D 33-4

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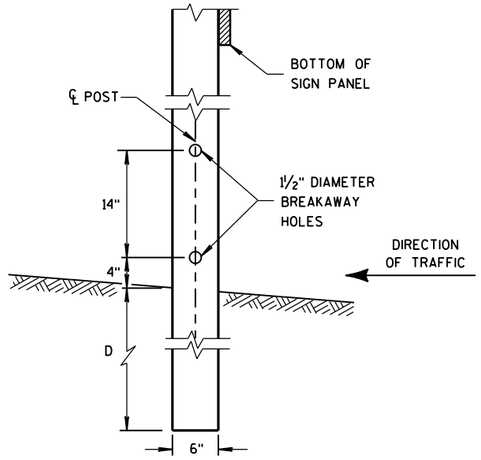
S.D.D. 15 D 33-4



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



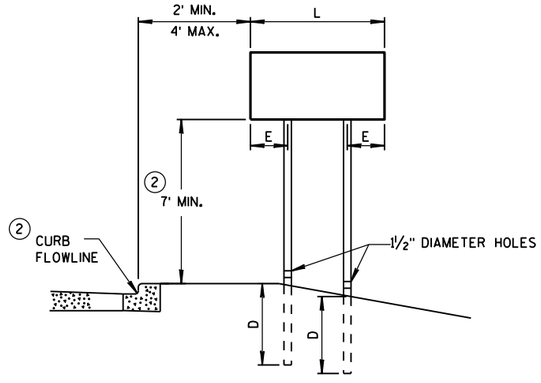
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

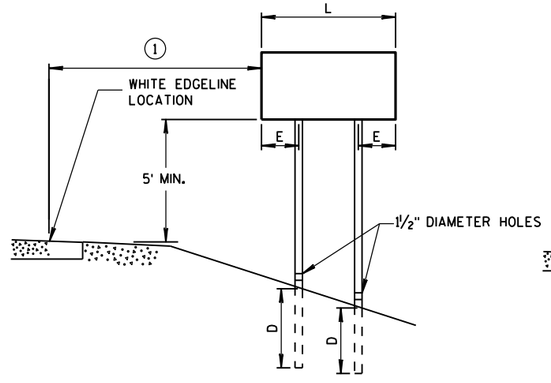
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

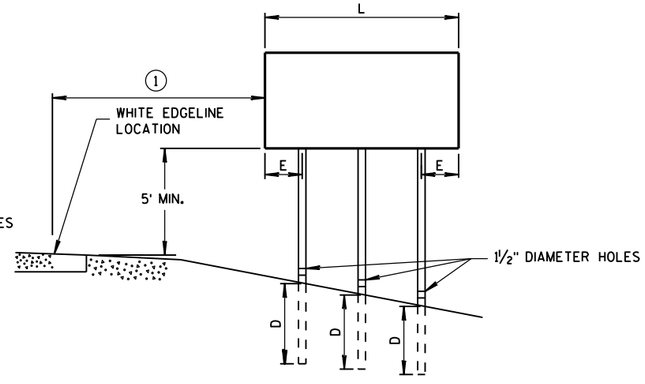
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

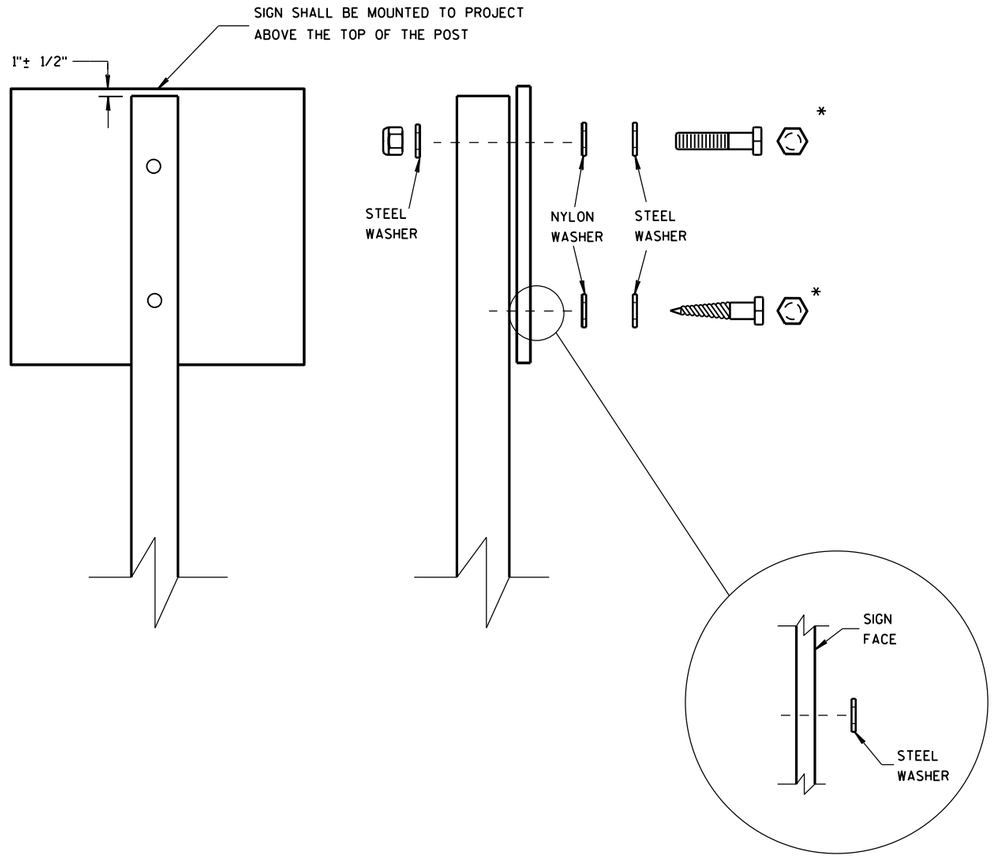
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

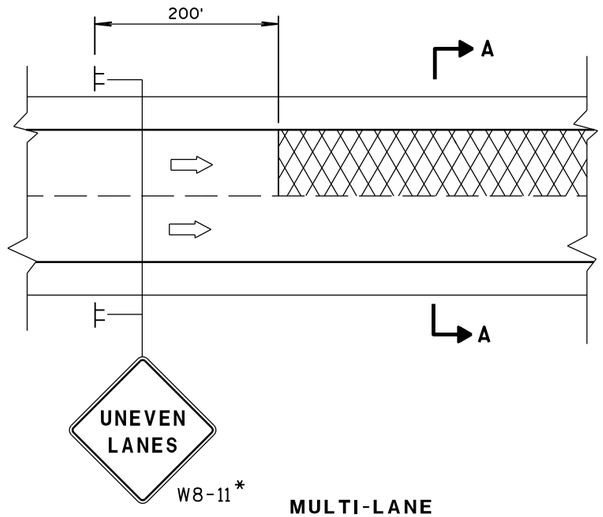
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

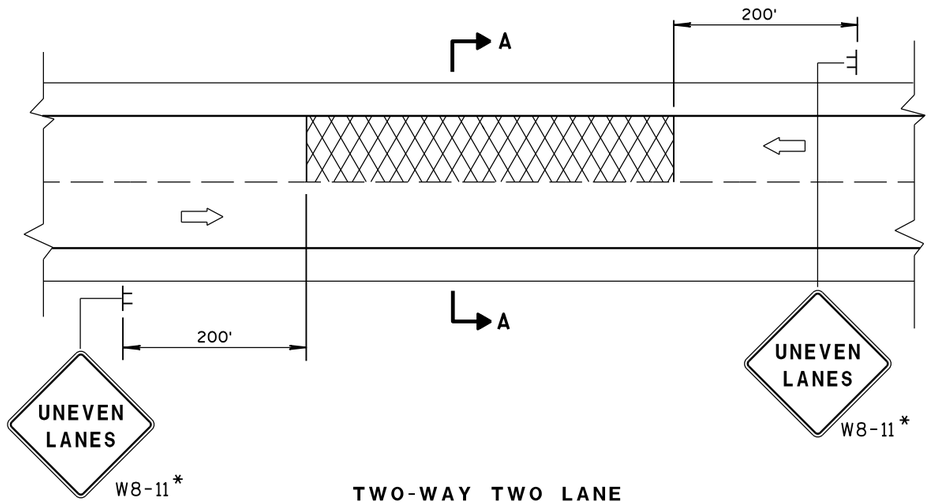
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

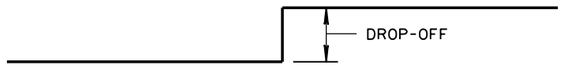
FHWA



MULTI-LANE

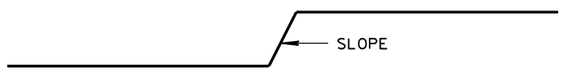


TWO-WAY TWO LANE

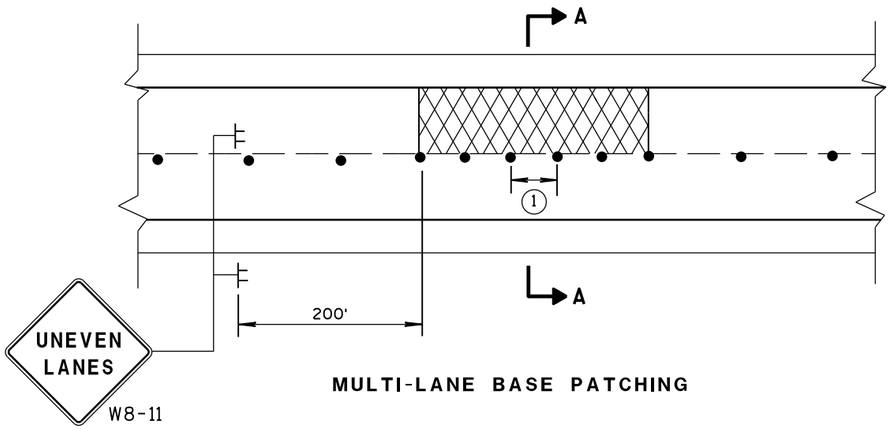


SECTION A-A

OR

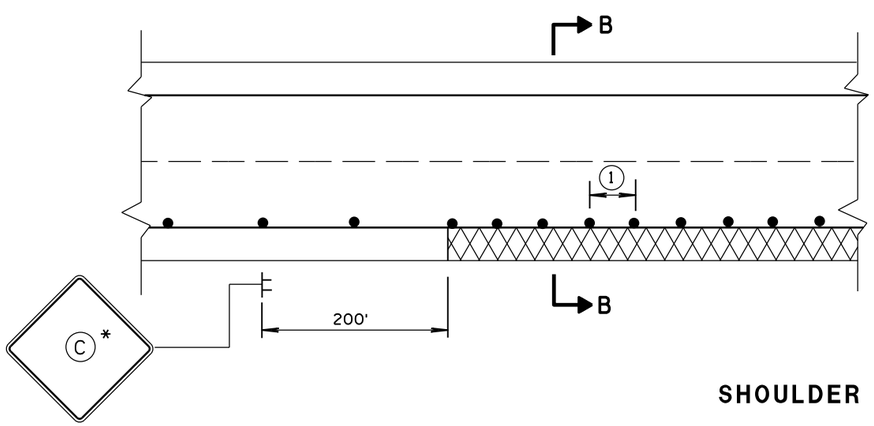


SECTION A-A

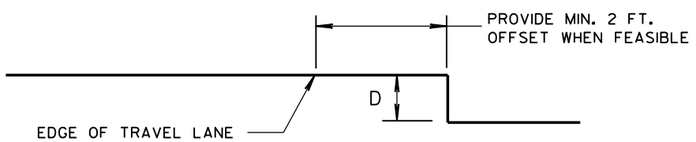


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B-B

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY ½ MILE.

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

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER W08-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP-OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

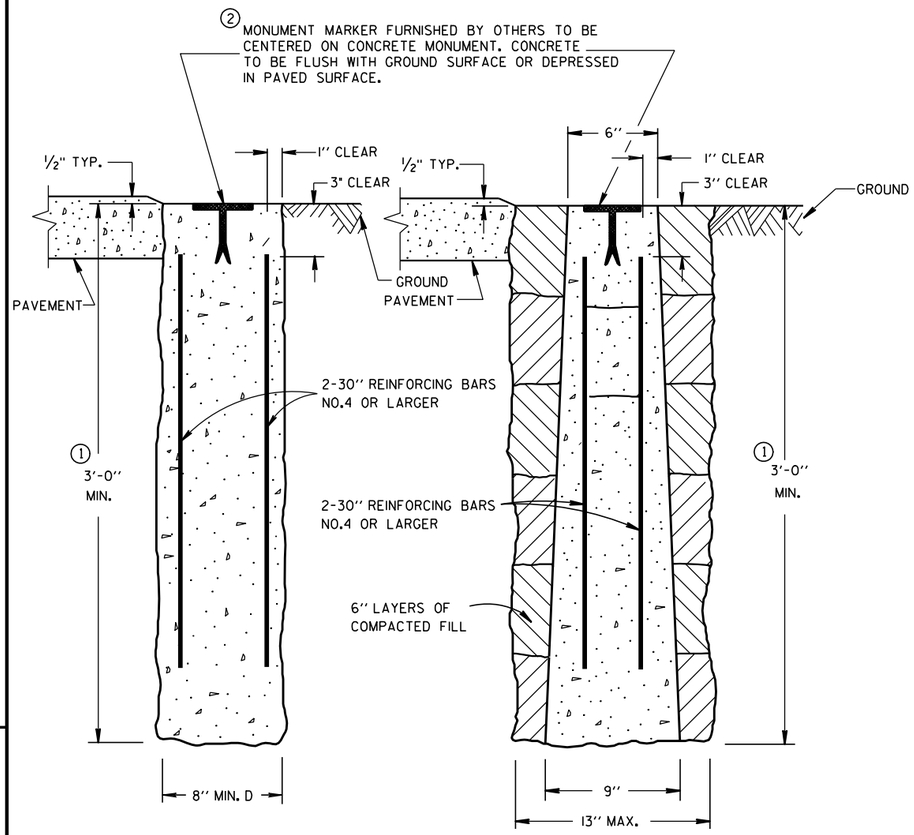
TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGI
FHWA

6

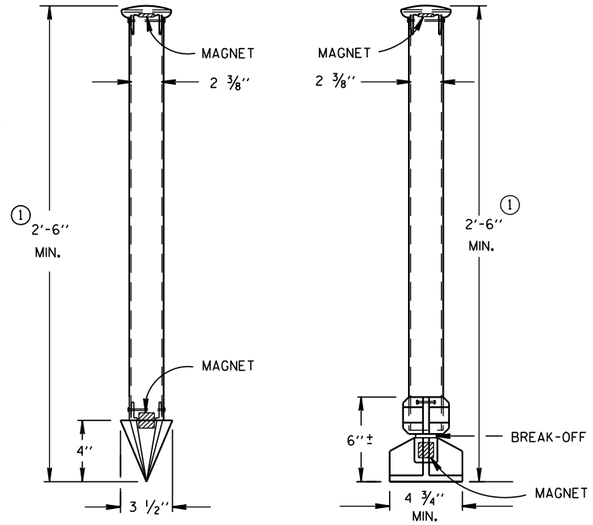
S.D.D. 15 D 39-1



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A

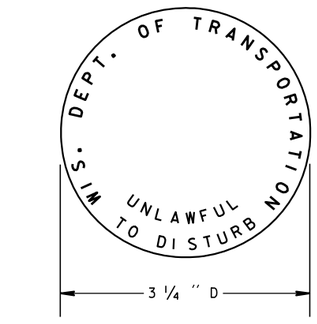


TYPE C DRIVE-IN MONUMENT

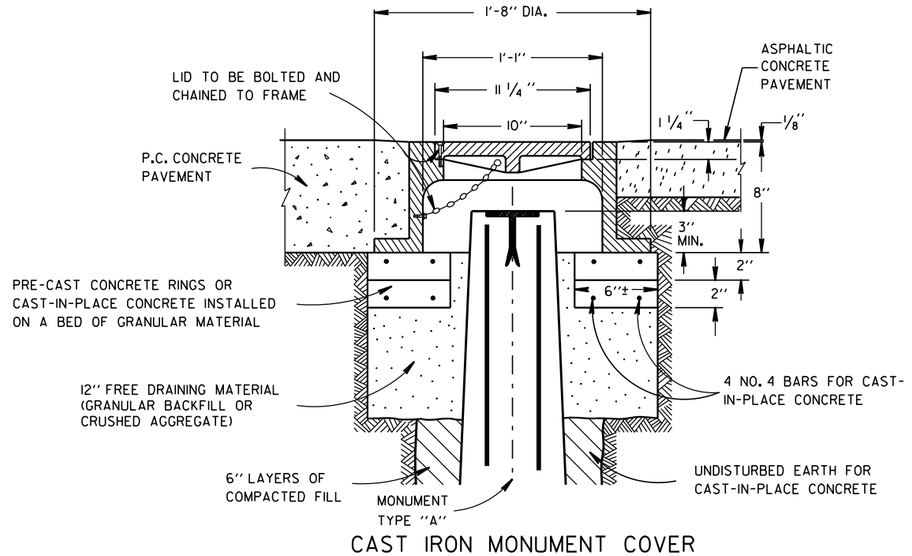
TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)



② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

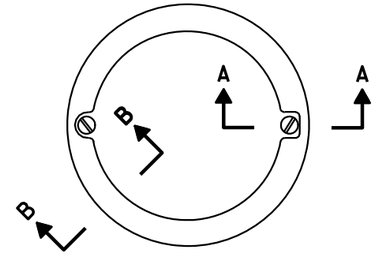
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

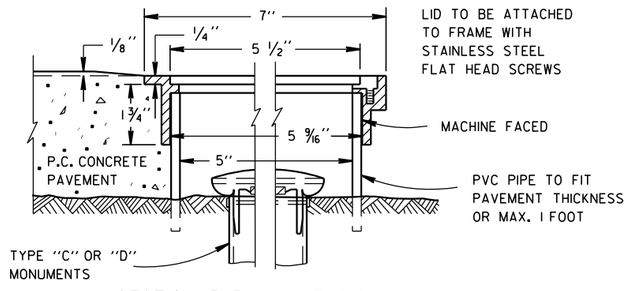
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/22/1999 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

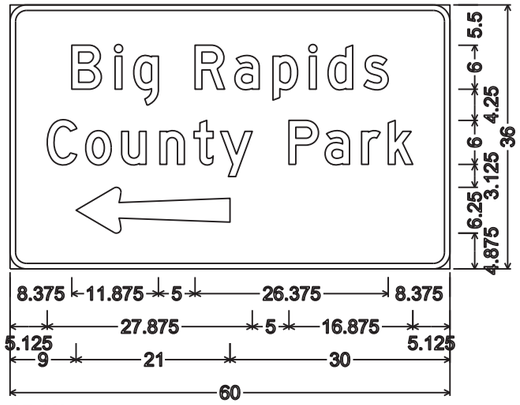
FHWA

6

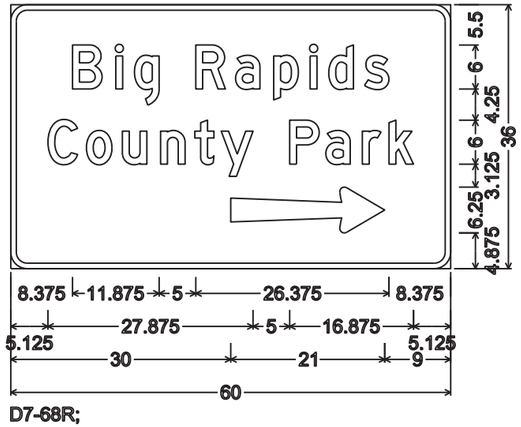
S.D.D. 16 A 1-6

6

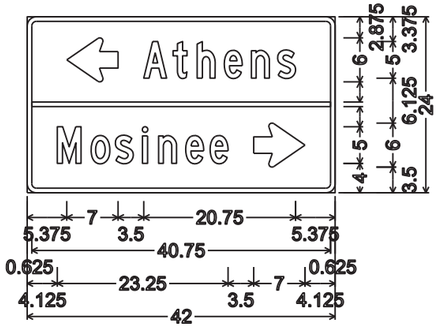
S.D.D. 16 A 1-6



D7-68L;
2.250" Radius, 0.750" Border, White on Brown;
"Big" D; "Rapids" D; "County" D; "Park" D



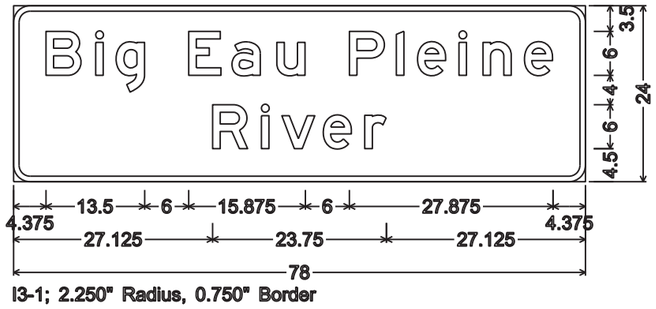
D7-68R;
2.250" Radius, 0.750" Border, White on Brown;
"Big" D; "Rapids" D; "County" D; "Park" D



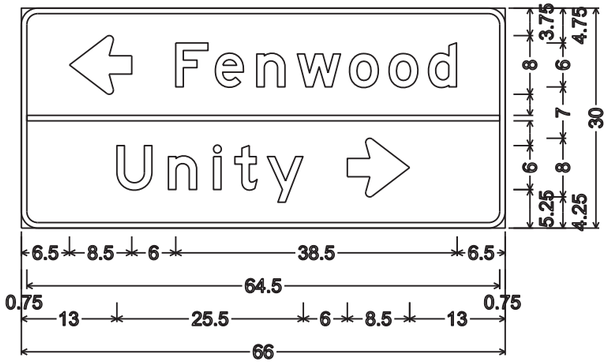
D1-2;
1.250" Radius, 0.625" Border,
"Athens" C; "Mosinee" C

NOTES

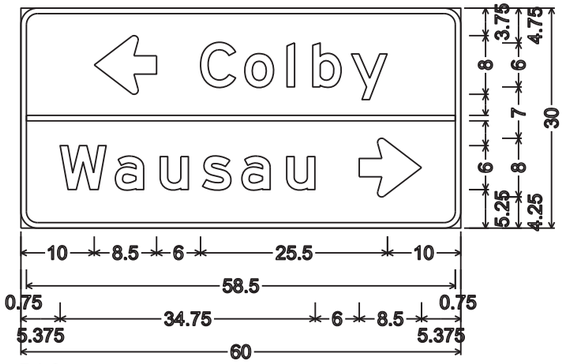
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



I3-1; 2.250" Radius, 0.750" Border



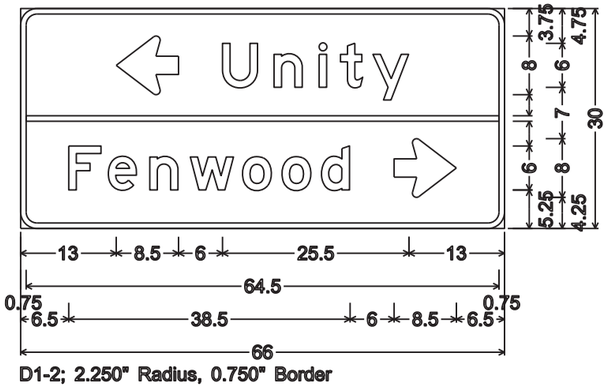
D1-2; 2.250" Radius, 0.750" Border



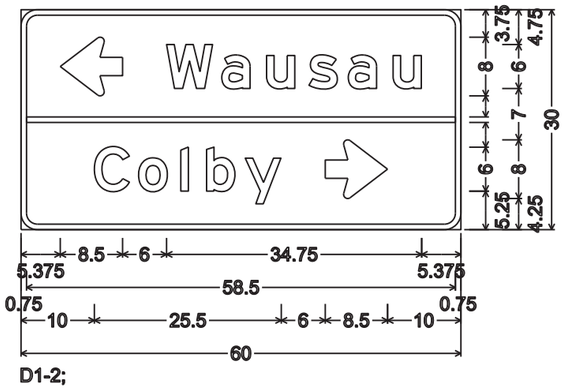
D1-2;
2.250" Radius, 0.750" Border



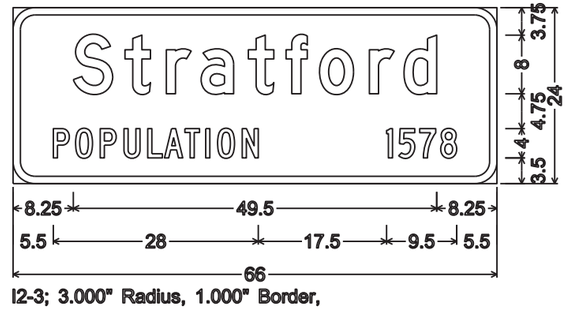
D2-1; 2.250" Radius, 0.750" Border



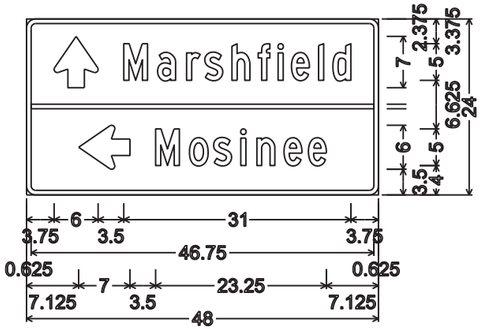
D1-2; 2.250" Radius, 0.750" Border



D1-2;
2.250" Radius, 0.750" Border



I2-3; 3.000" Radius, 1.000" Border,
"Stratford" D; "POPULATION" C; "1578" C



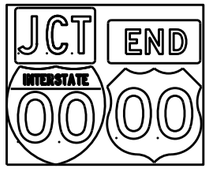
D1-2;
1.250" Radius, 0.625" Border,
"Marshfield" C; "Mosinee" C

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	PERMANENT SIGNING	SHEET NO: 220	E

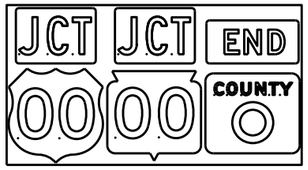
TYPICAL ASSEMBLIES



J1-1



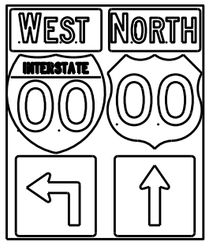
J1-2



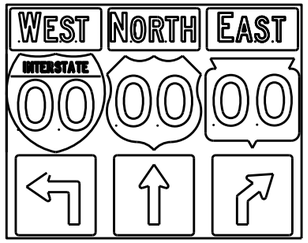
J1-3



J2-1



J2-2

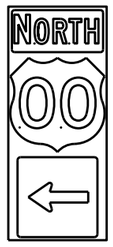


J2-3

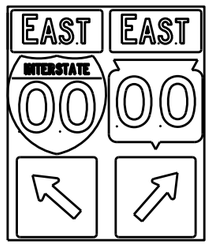


JV

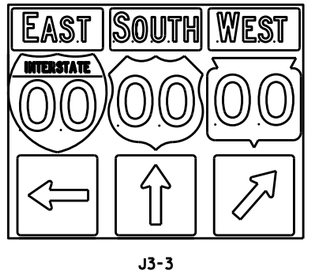
(Typical Vertical J-Assembly
See Note 10 and 11)



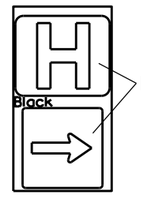
J3-1



J3-2



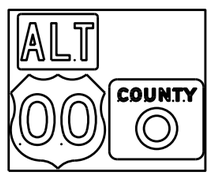
J3-3



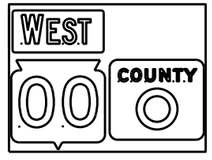
JH-1



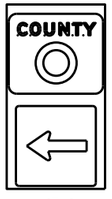
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

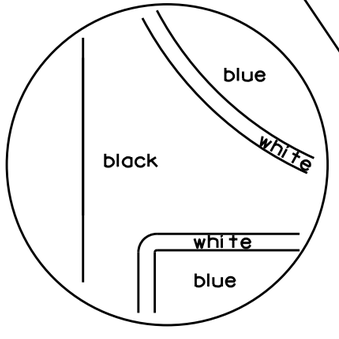


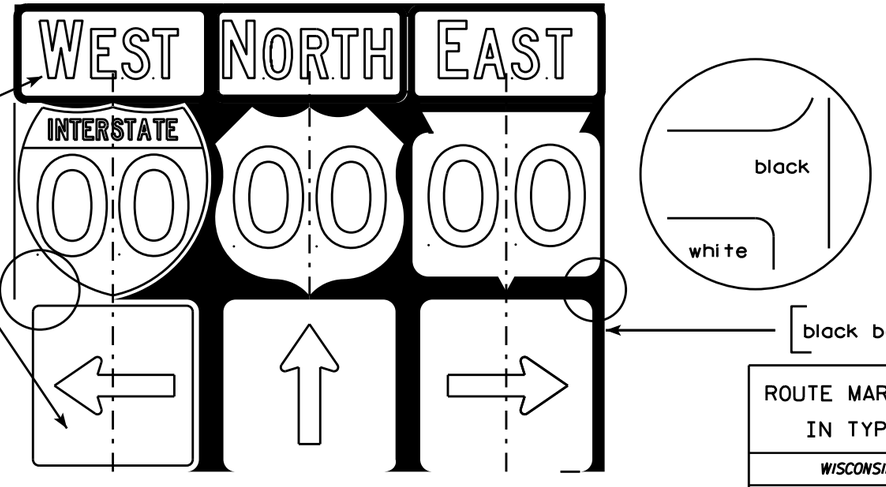
J23-1



J22-1

[blue background with interstate]





[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. 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.
7. 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.
8. 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.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

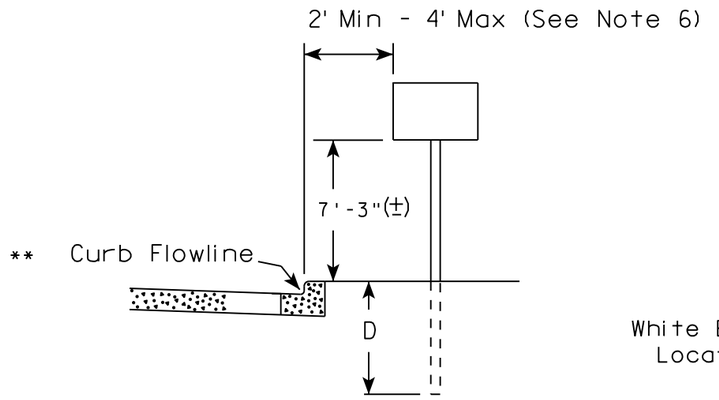
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

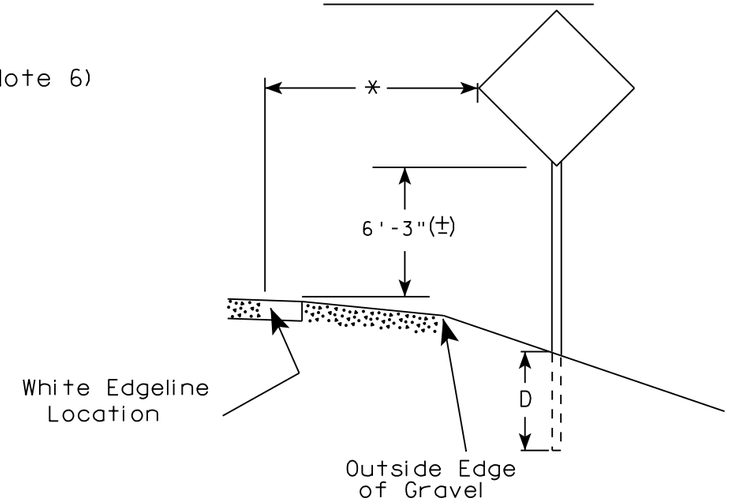
PROJECT NO: | SHEET NO: E

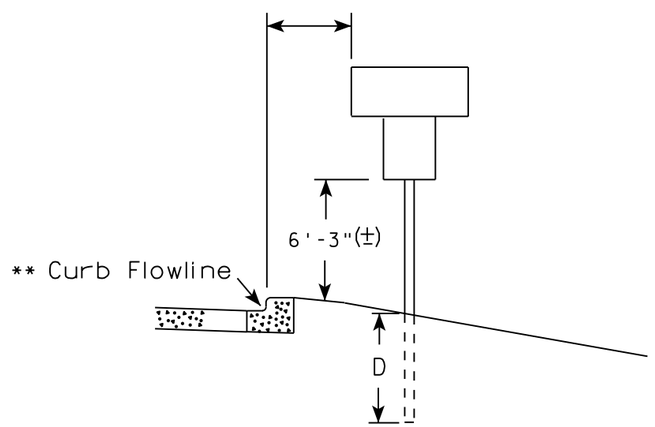
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

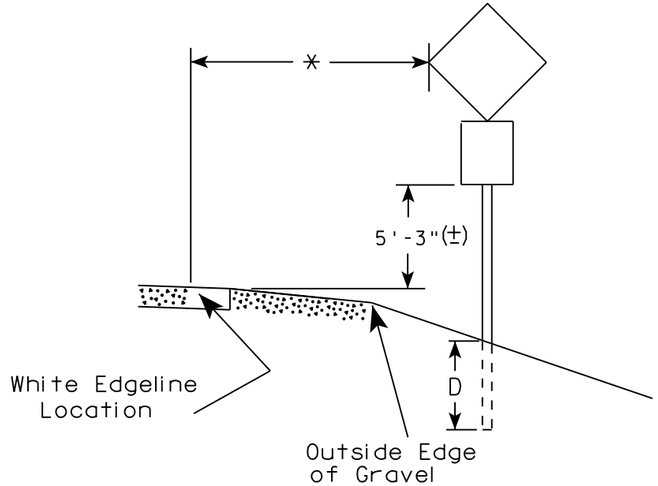
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-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" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

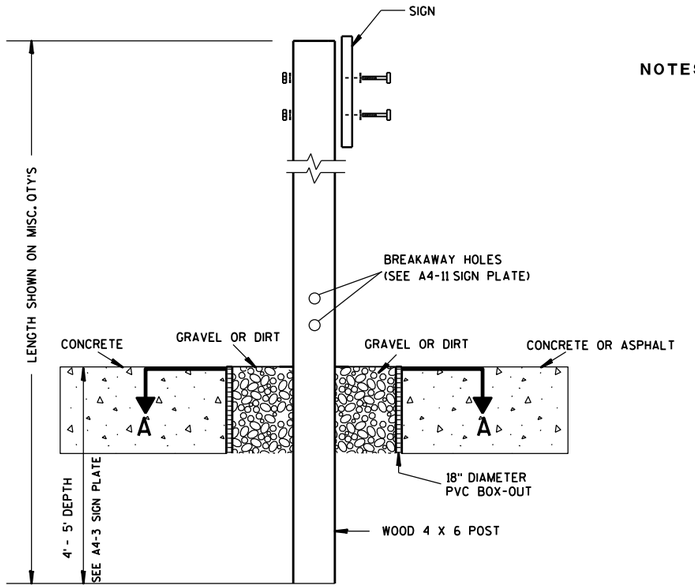
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

7 7

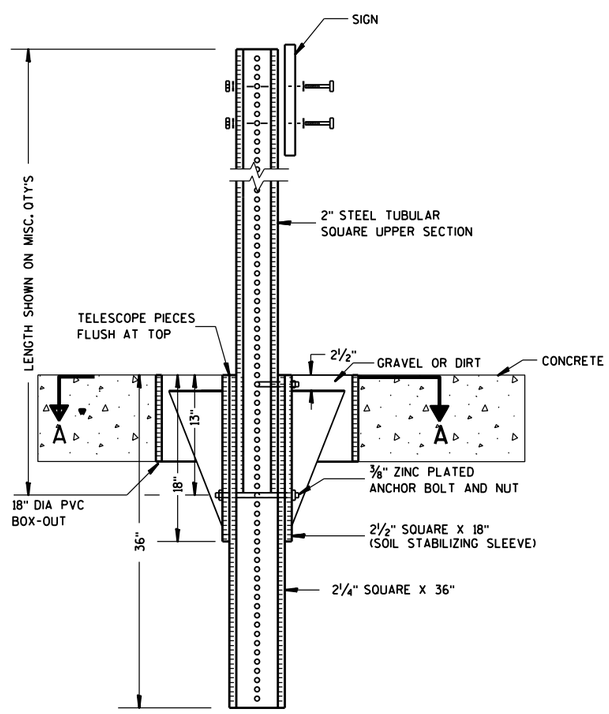
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 222	E



ELEVATION VIEW

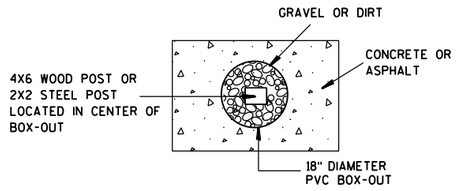
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

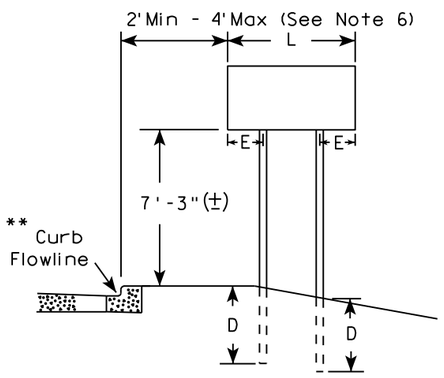
APPROVED Matthew R Rauch
for State Traffic Engineer

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

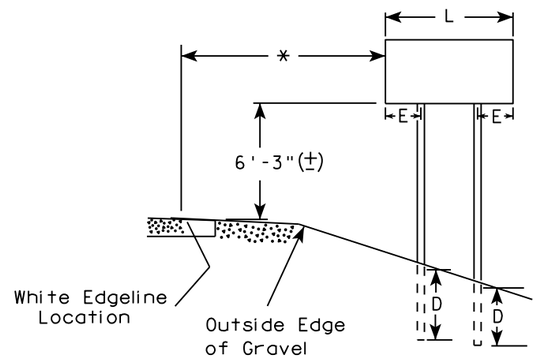
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

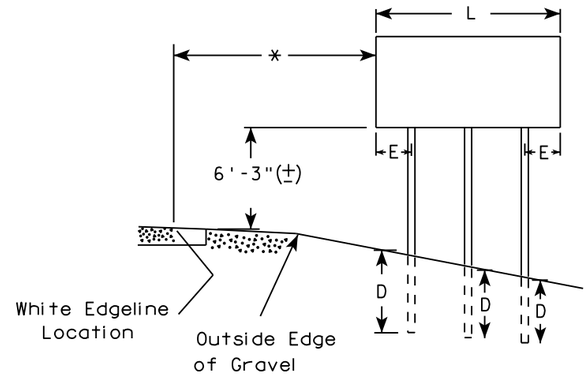
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

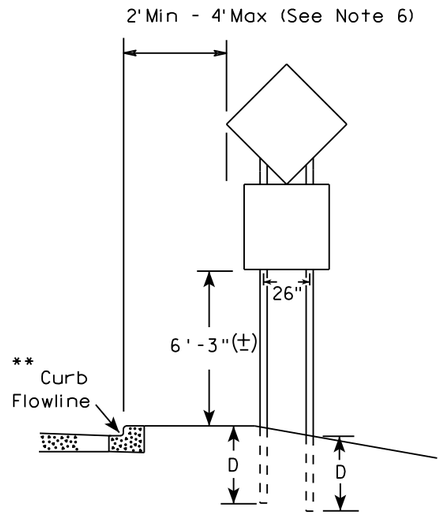
URBAN AREA



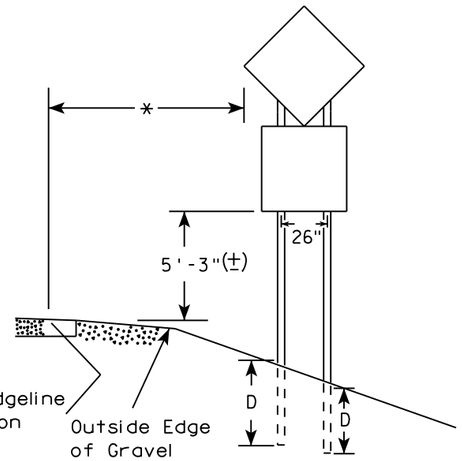
RURAL AREA (See Note 3)







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"

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" (±) or 6'-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" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-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" (±).

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

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

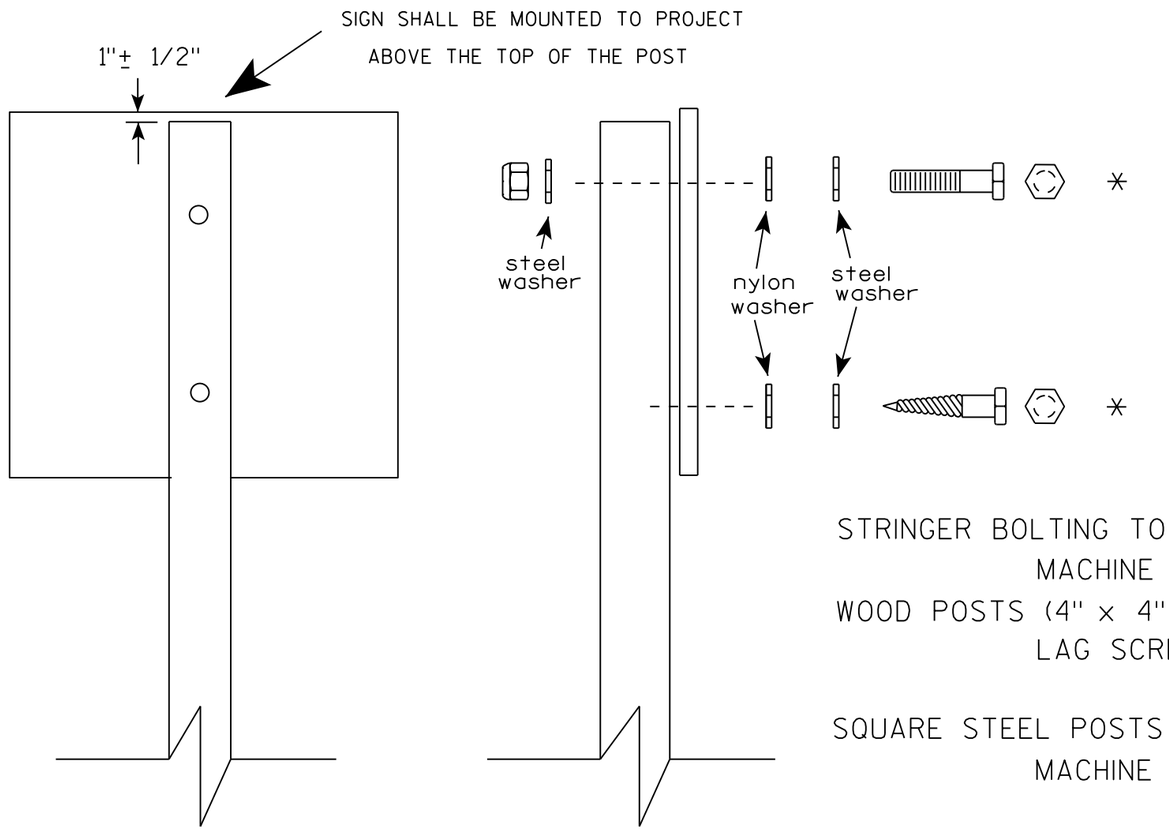
DATE 8/21/17 PLATE NO. A4-4.15

7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 224 | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 21-AUG-2017 15:54 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 108.188297:1.000000



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

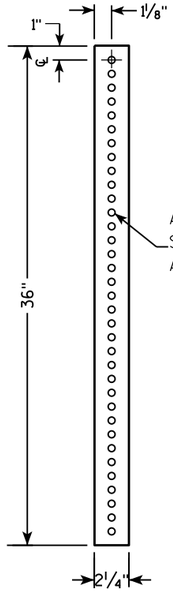
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

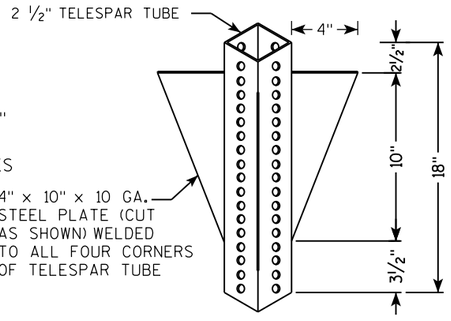
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

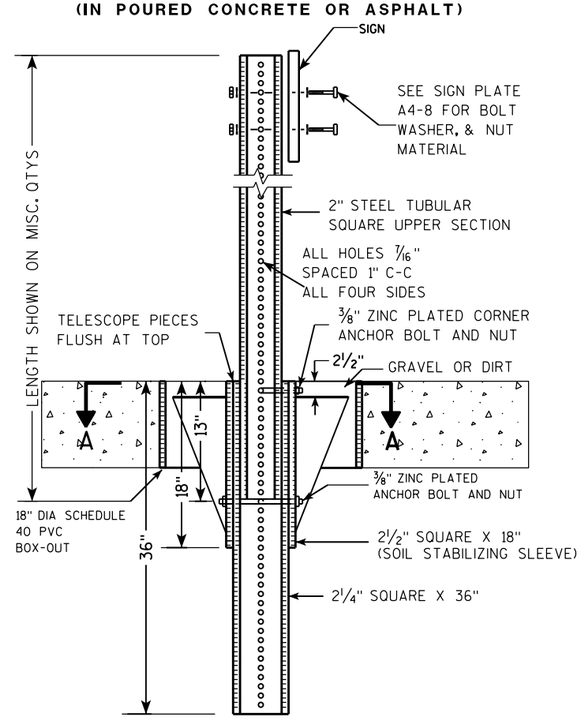
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



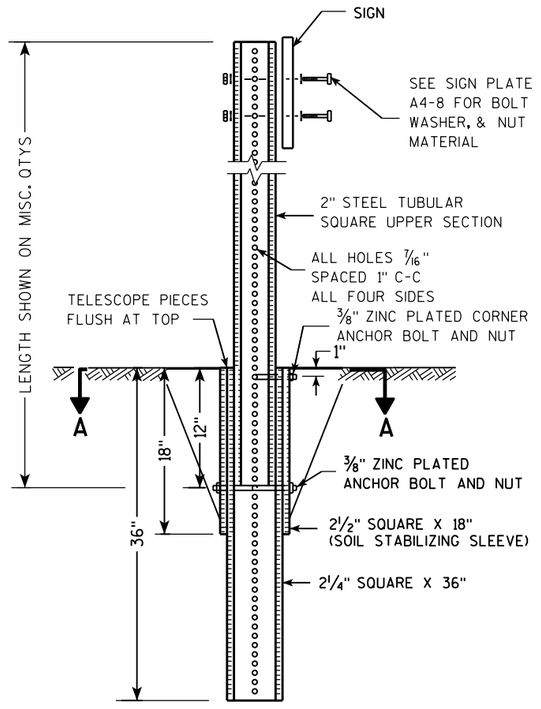
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

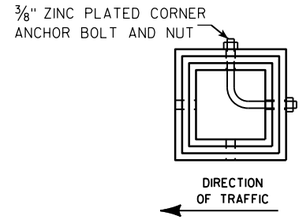


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

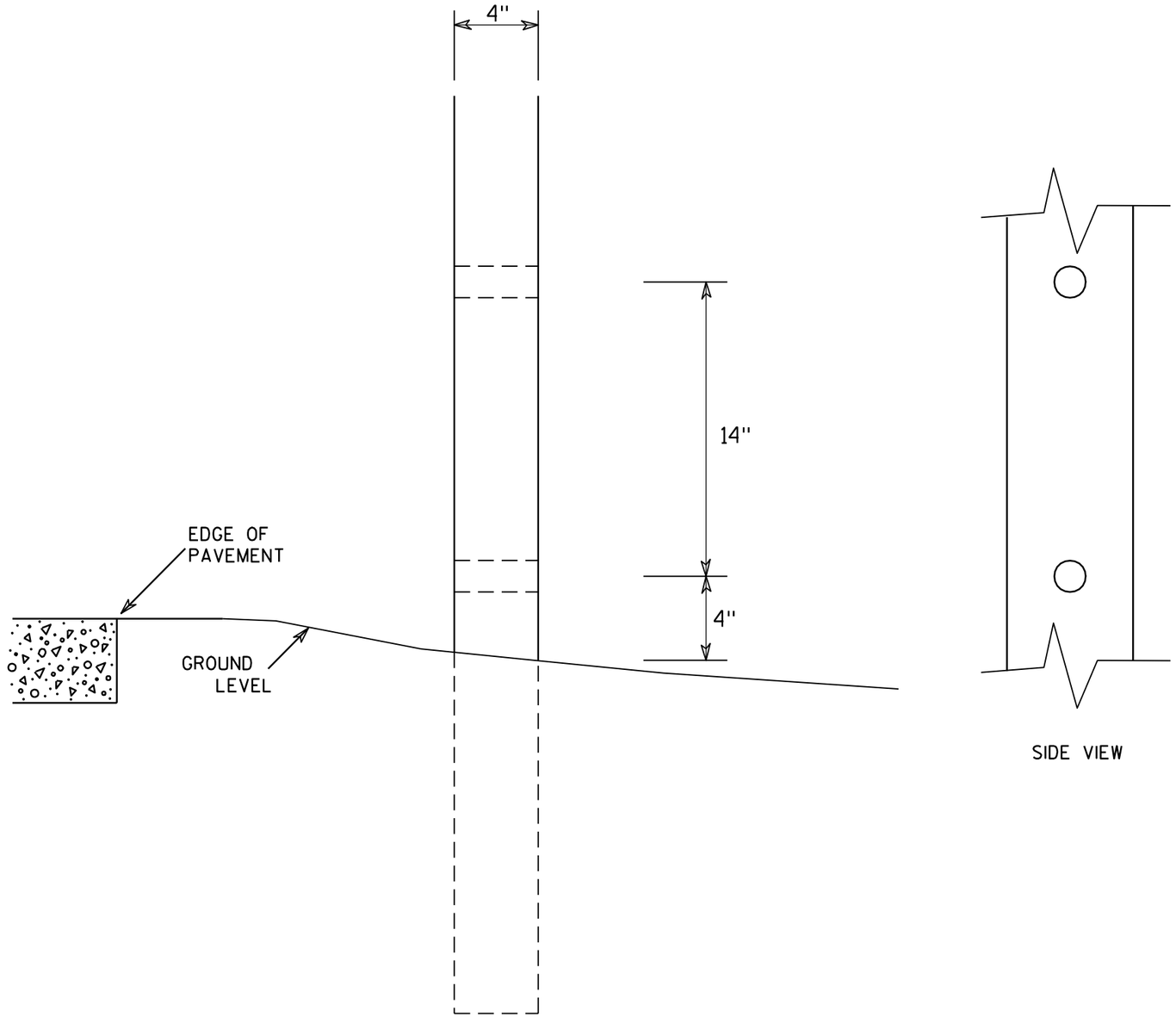
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

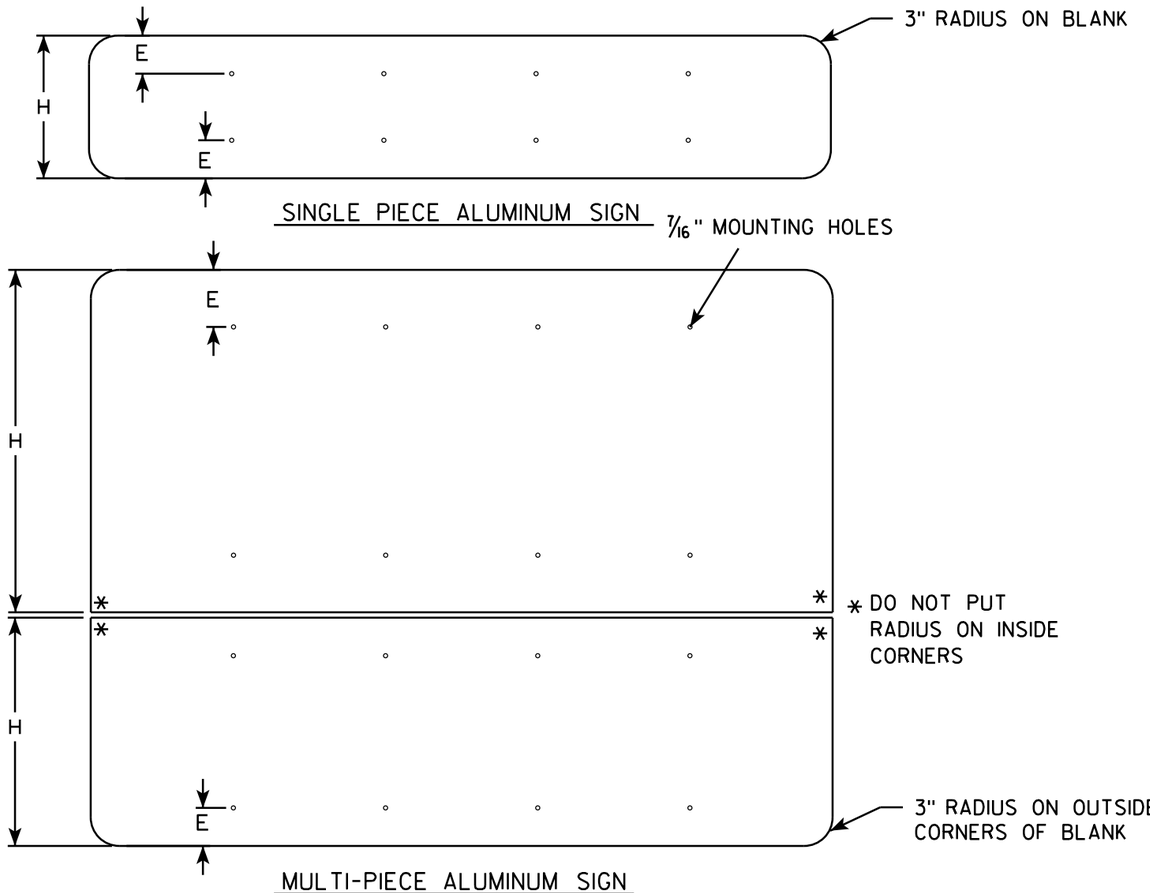
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

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

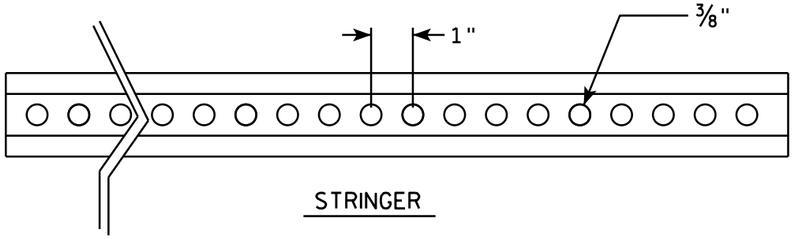
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 227	E



GENERAL NOTES

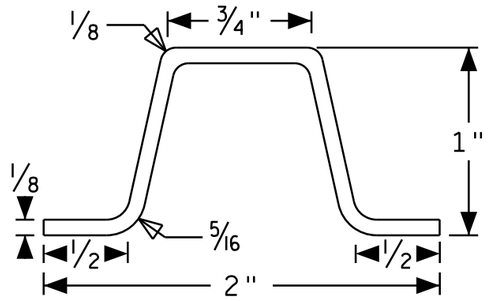
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

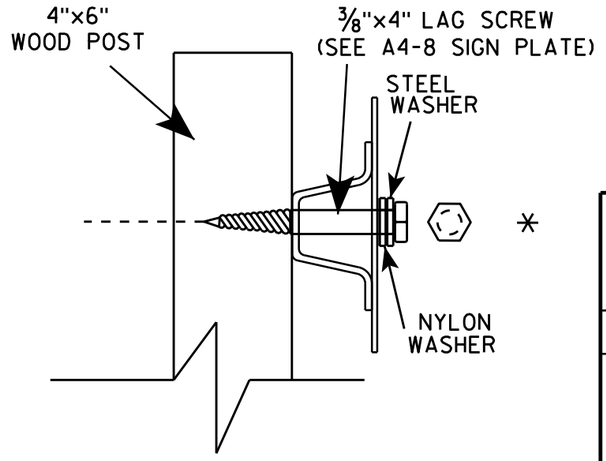


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

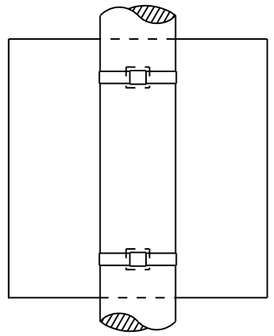
DATE 4/26/16 PLATE NO A4-18.1

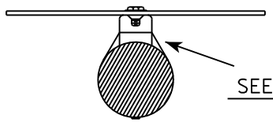
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

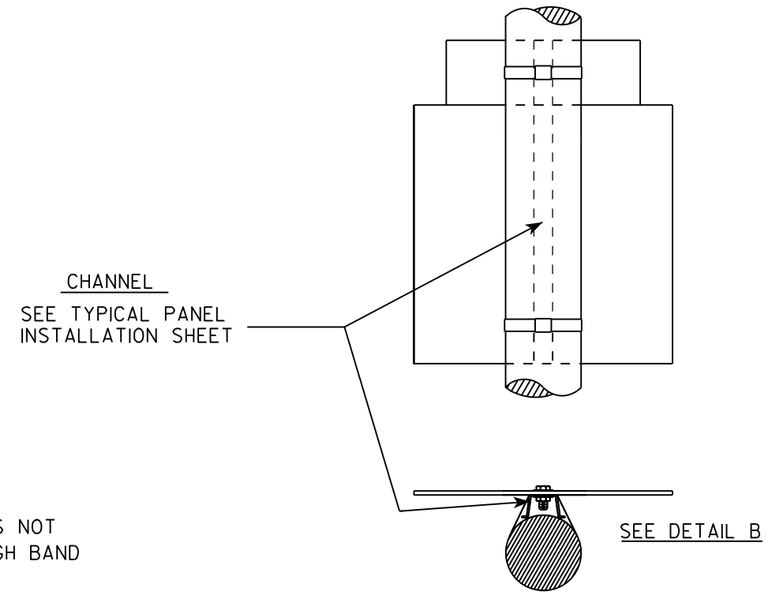
BANDING

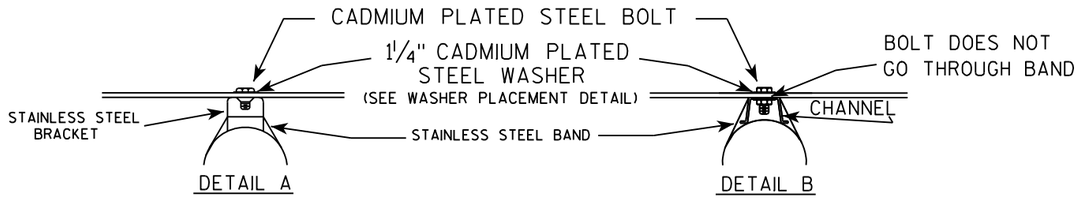
SINGLE SIGN



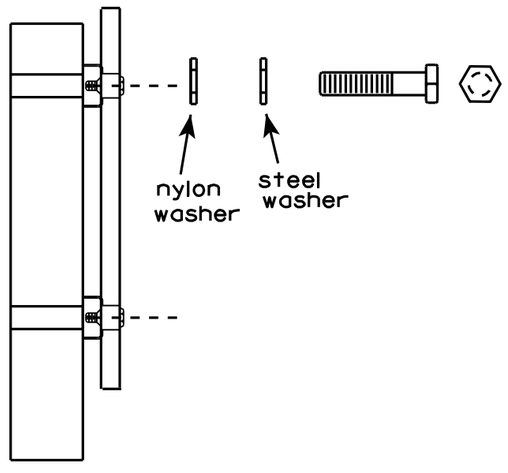


"J" ASSEMBLY





WASHER PLACEMENT



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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

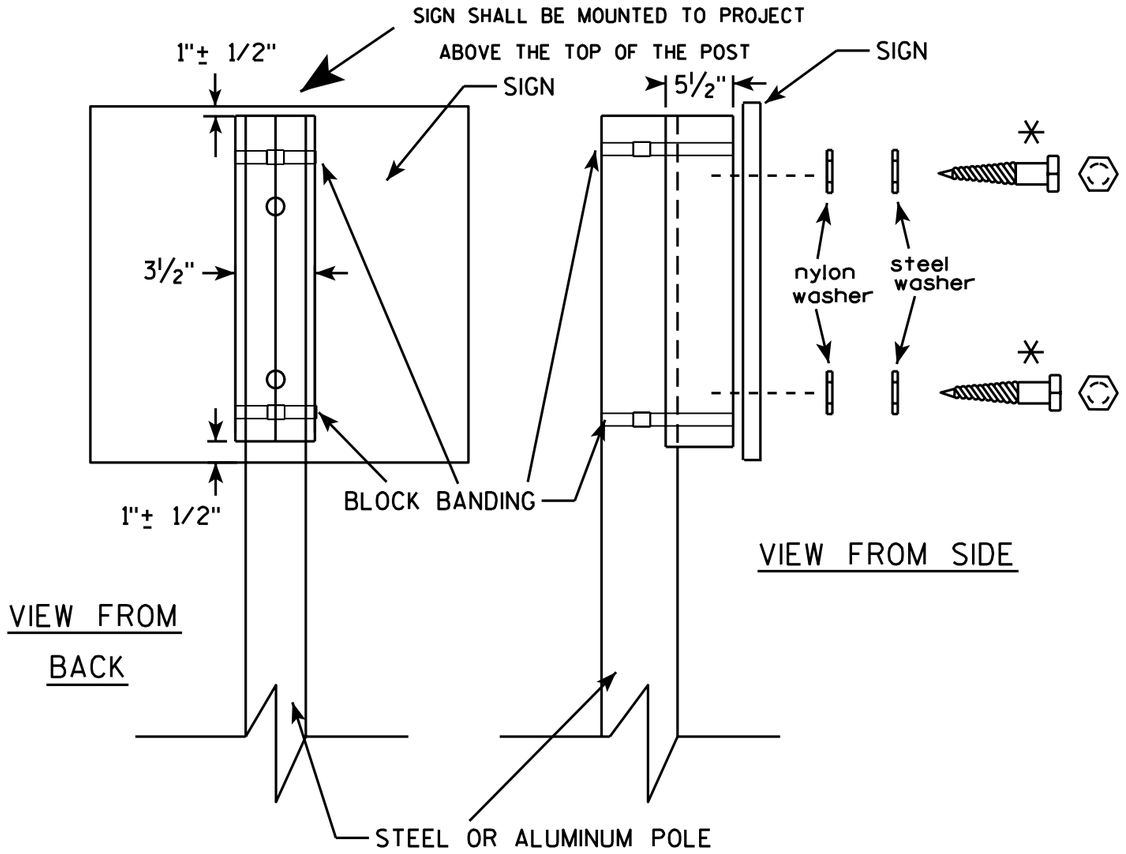
STANDARD SIGN
SIGN BANDING DETAILS

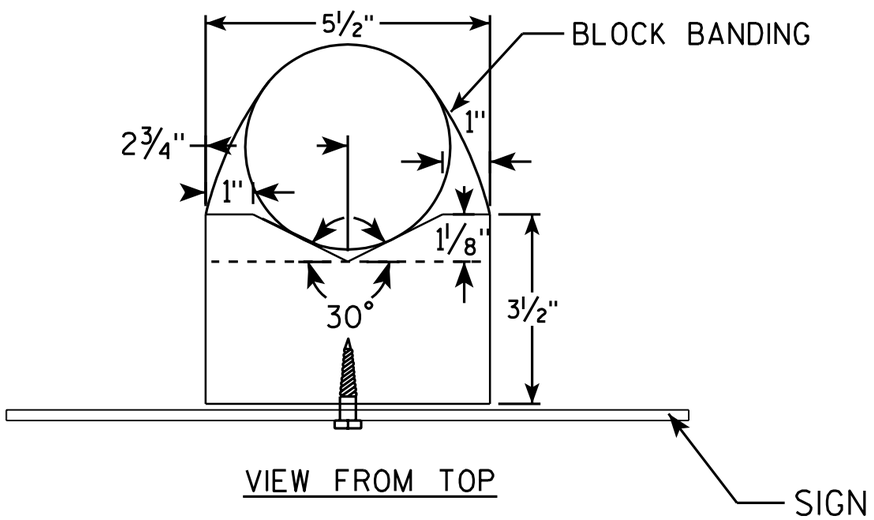
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 229	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

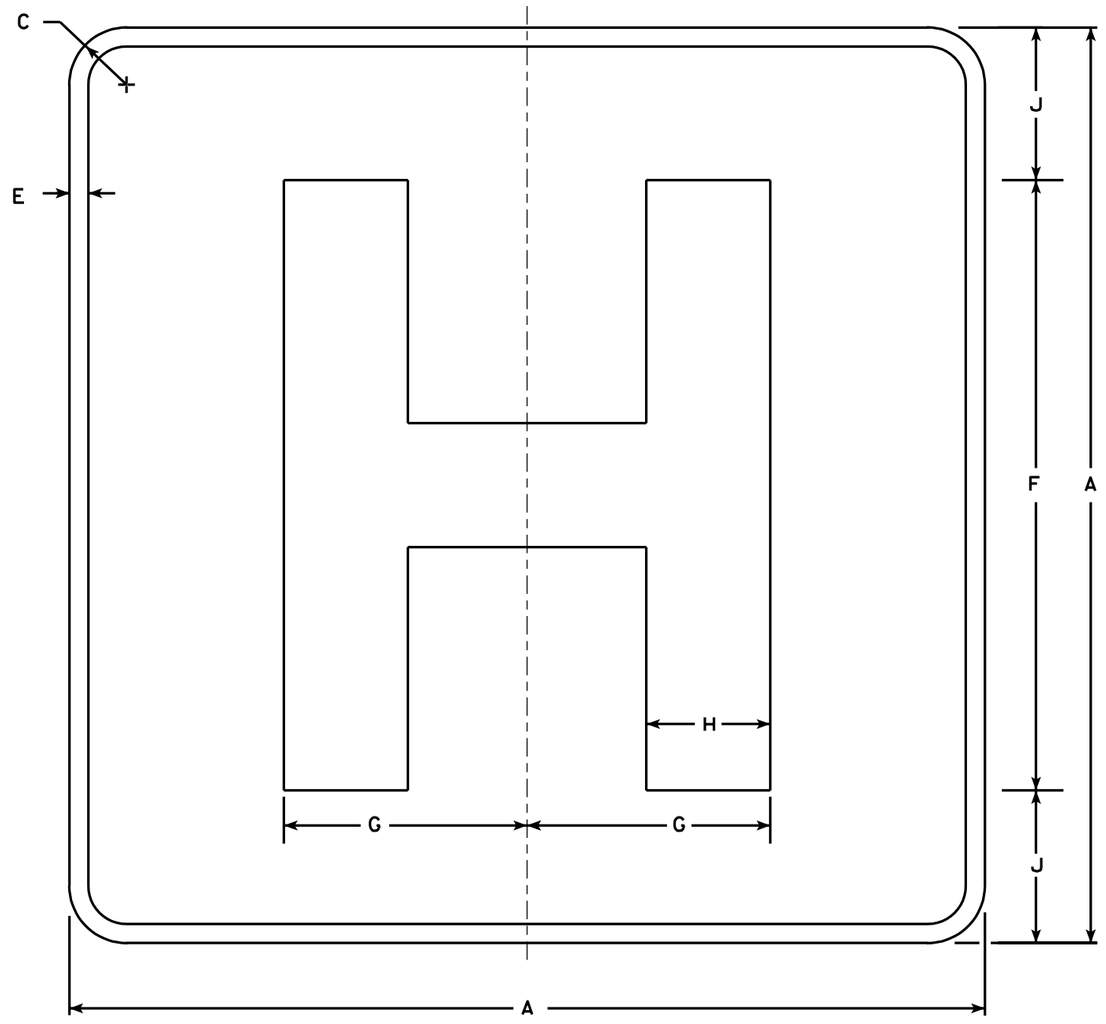
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 230 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



D9-2

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

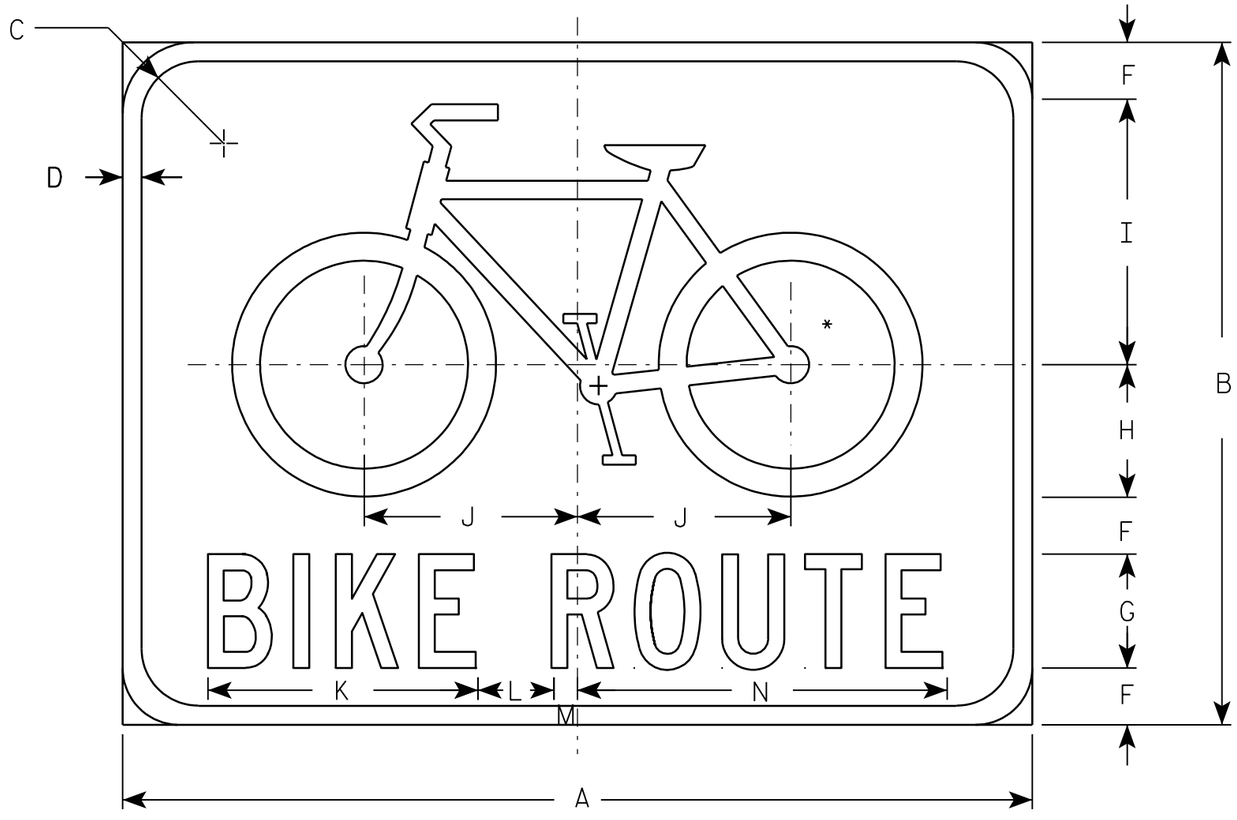
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong
for State Traffic Engineer

DATE 1/15/02 PLATE NO. D9-2.4

PROJECT NO:

SHEET NO: 231 E



D11-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
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.

* See W11-1 for symbol design

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 450 mm
3	750 mm X 600 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	18	1 1/2	1/2		1 1/2	3	3 1/2	7	5 5/8	7 1/8	2	5/8	9 3/4													3.0	0.27
3	30	24	1 1/4	5/8		2	4	4 3/4	9 1/4	7 1/2	9 1/2	2 5/8	7/8	13													5.0	0.45
4																												
5																												

STANDARD SIGN
D11-1

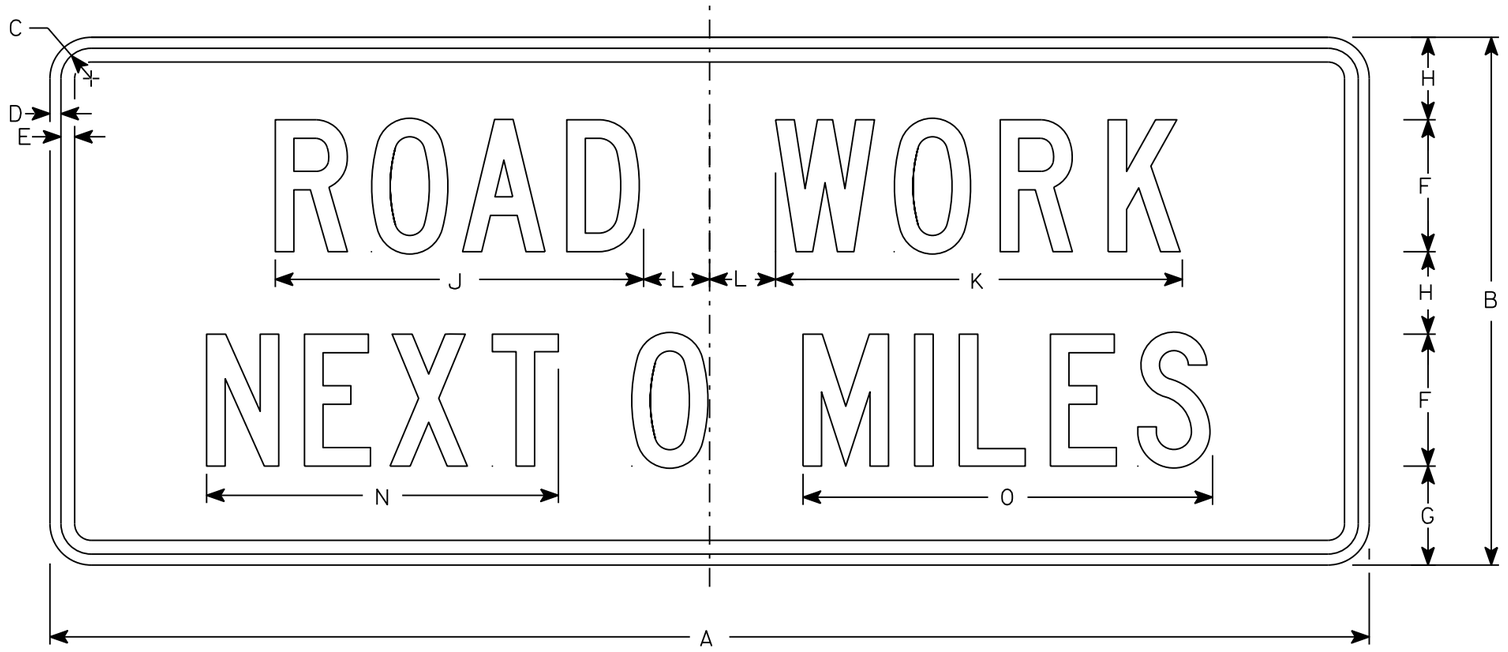
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/04 PLATE NO. D11-1.1

PROJECT NO:

SHEET NO: 232 E



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

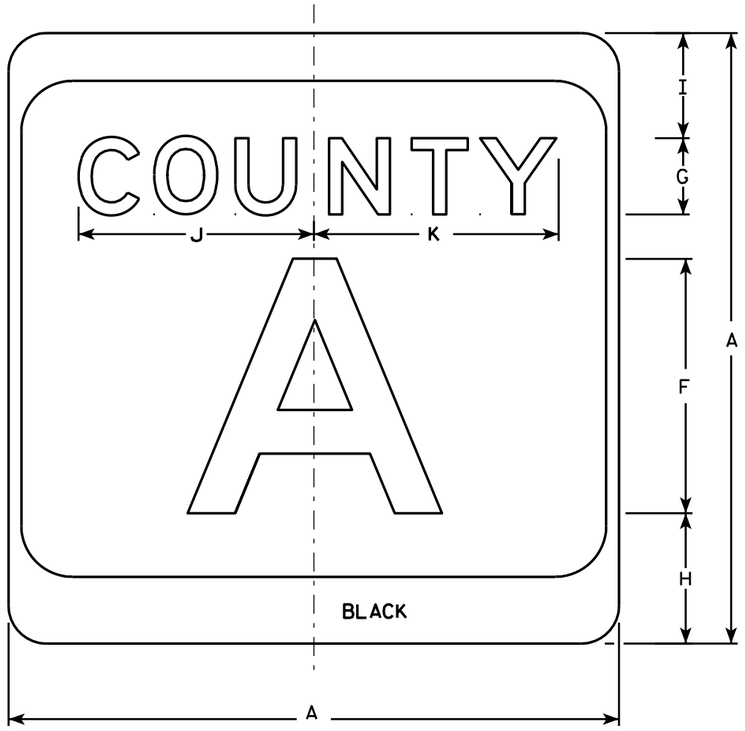
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

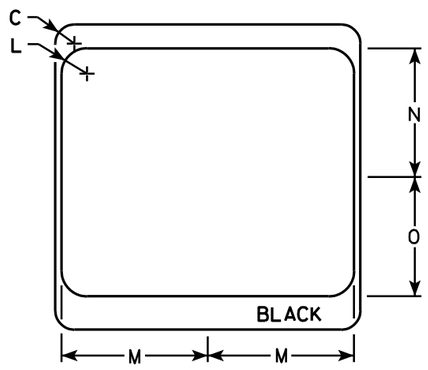
APPROVED Matthew R Rauch
for State Traffic Engineer

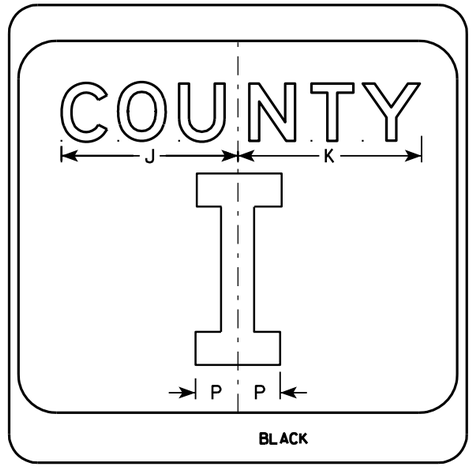
DATE 3/14/17 PLATE NO. G20-1.8

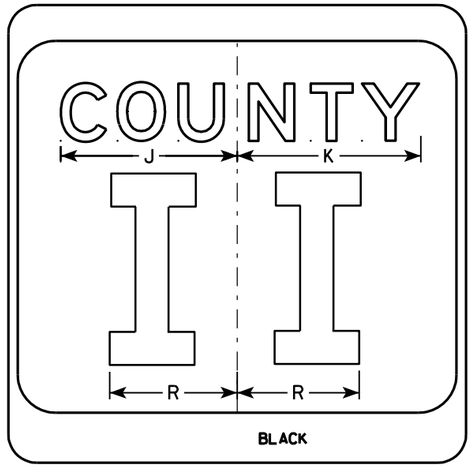
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 233	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. 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.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

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
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

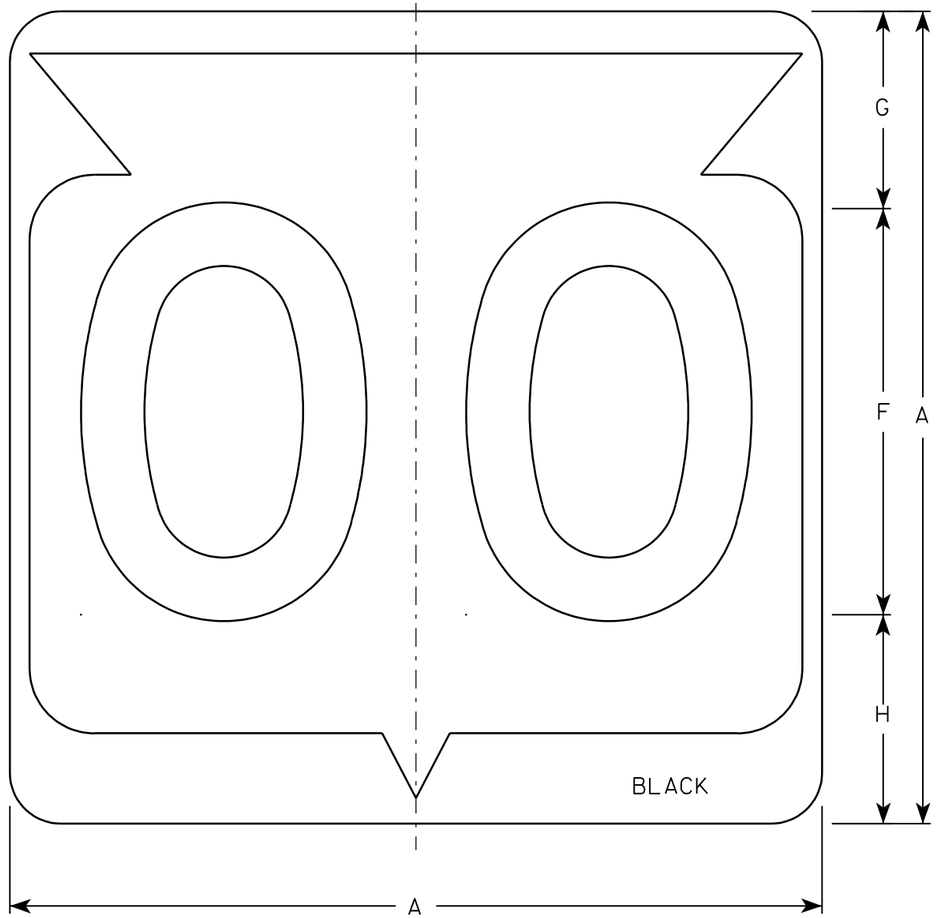
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

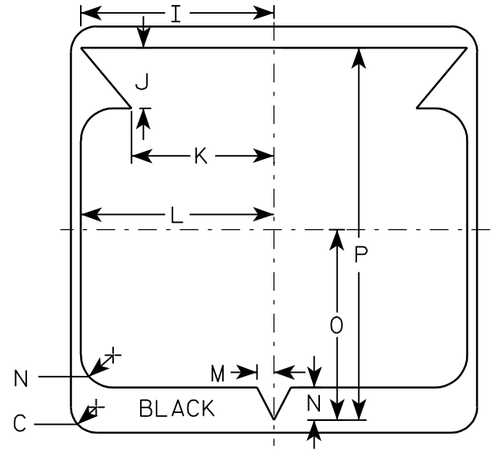
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 234 | E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

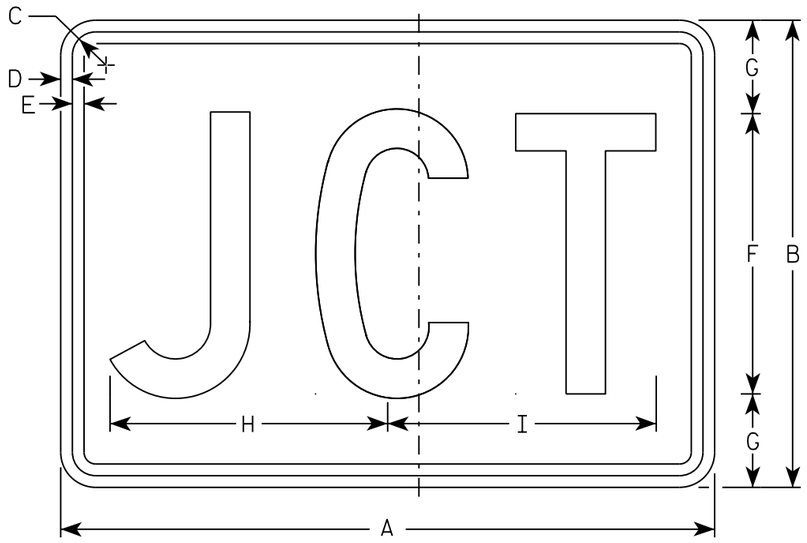
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

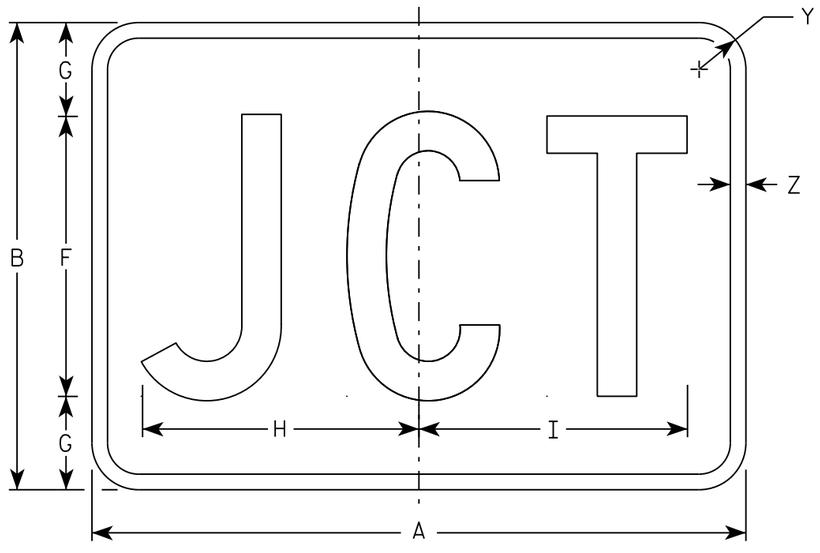
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 235	E



M2-1
MM2-1
MP2-1



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

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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

STANDARD SIGN
M2-1

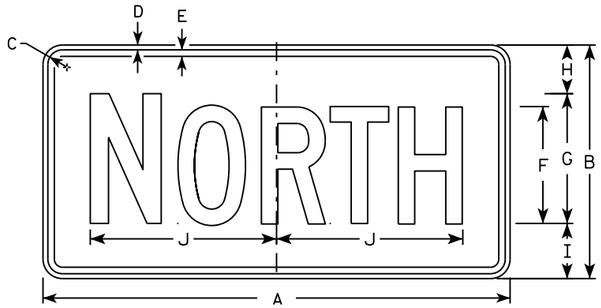
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

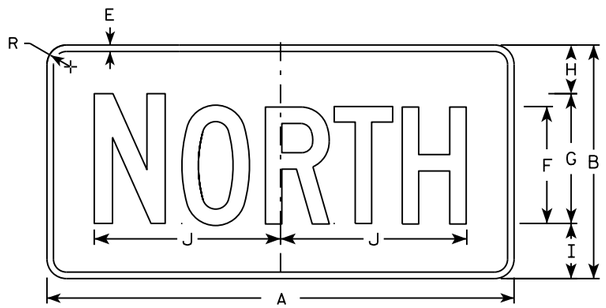
DATE 10/15/15 PLATE 236 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



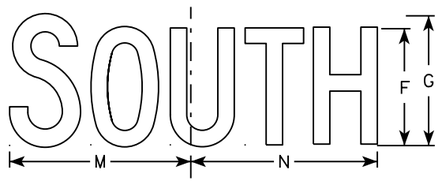
MB3-1
MK3-1
MN3-1



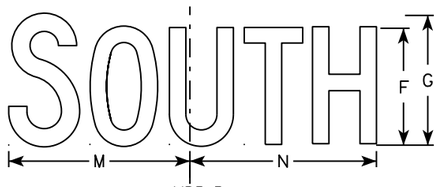
M3-2
MM3-2
MP3-2



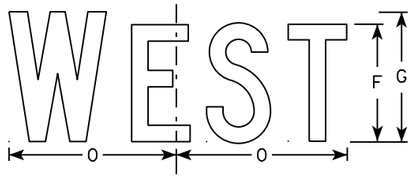
MB3-2
MK3-2
MN3-2



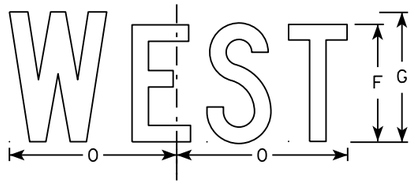
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	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			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

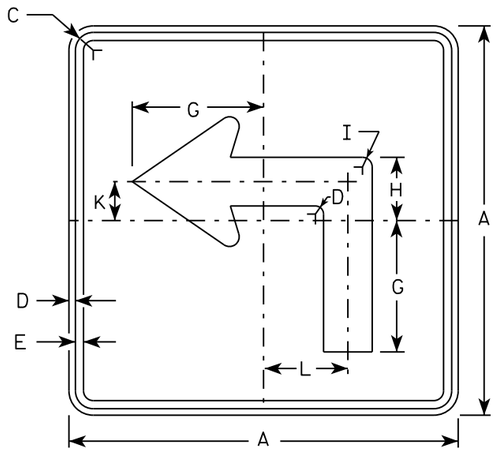
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

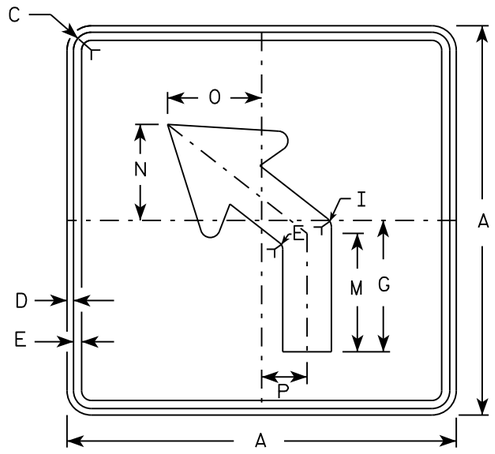
DATE 10/15/15 PLATE NO M3-1.14

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

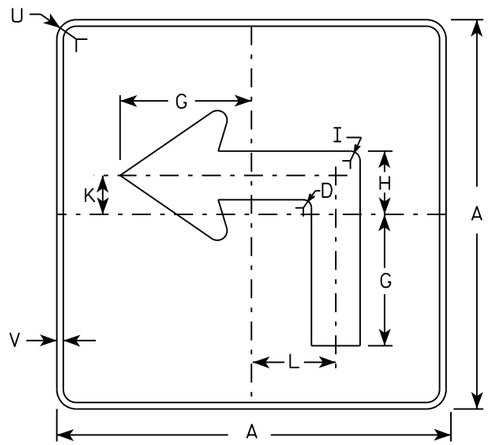
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



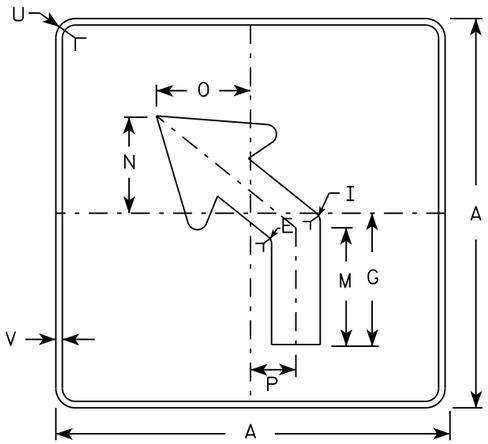
M5-1L
MM5-1L
MO5-1L
MP5-1L



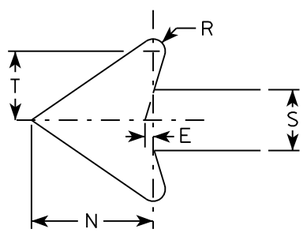
M5-2L
MM5-2L
MO5-2L
MP5-2L



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



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



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	21		1 1/8	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 1/2	1/2					3.06
3	30		1 3/8	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 7/8	1/2					6.25
4	30		1 3/8	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 7/8	1/2					6.25
5	30		1 3/8	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 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

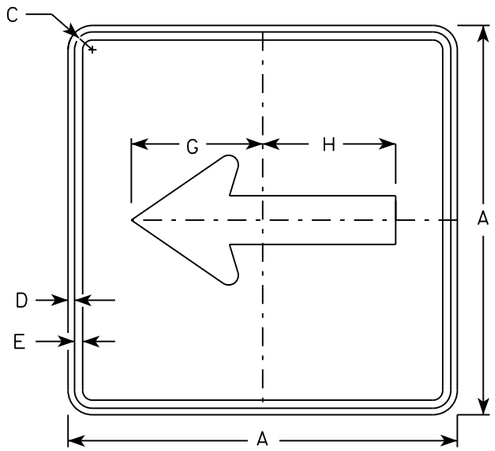
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

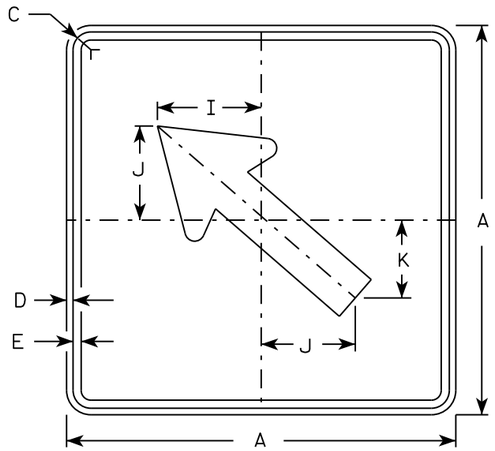
DATE 10/15/15 PLATE NO. M5-1.13

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



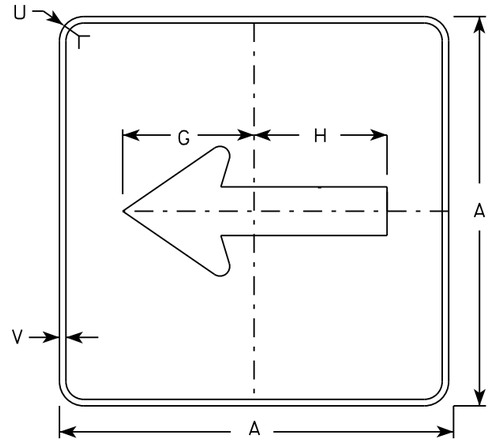
M6-1
MM6-1
MO6-1
MP6-1



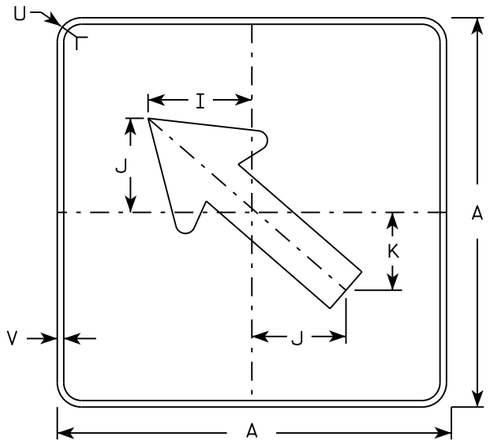
M6-2
MM6-2
MO6-2
MP6-2

NOTES

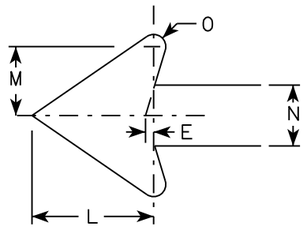
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



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



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



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	21		1 1/8	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 1/2	1/2						3.06
3	30		1 3/8	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 7/8	1/2						6.25
4	30		1 3/8	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 7/8	1/2						6.25
5	30		1 3/8	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 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

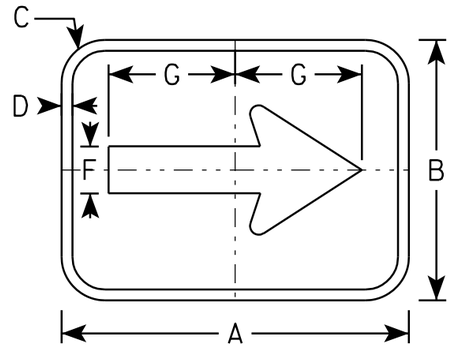
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

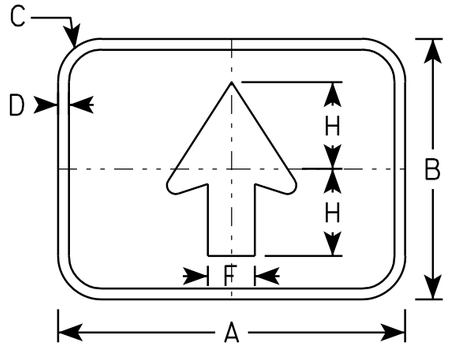
DATE 10/15/15 PLATE 239 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

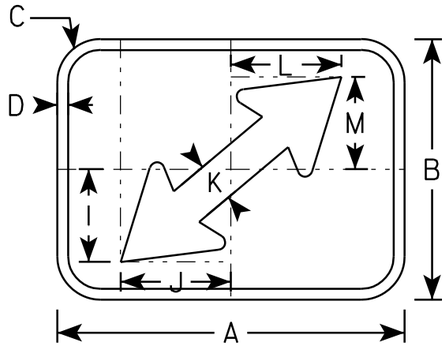
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



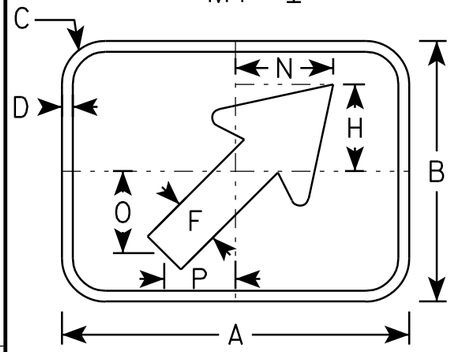
M7-1



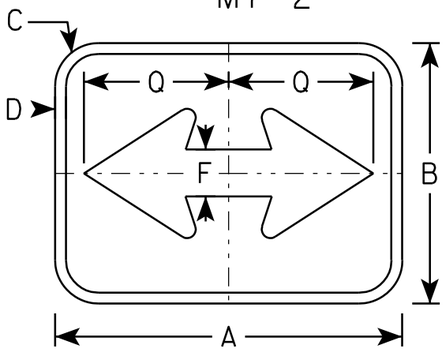
M7-2



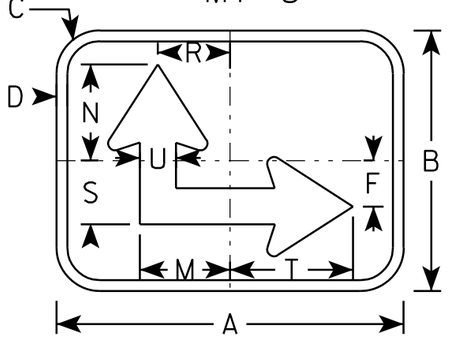
M7-3



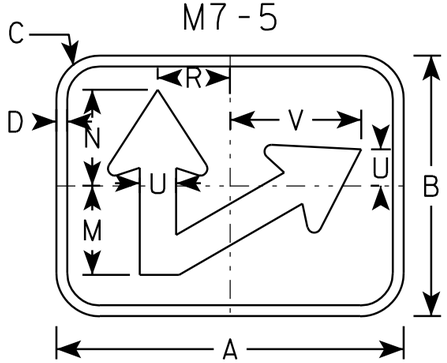
M7-4



M7-5



M7-6



M7-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message -White
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																											
2	12	9	1 1/2	3/8		1 5/8	4 3/8	3	3 1/4	3 3/4	1 3/8	3 7/8	3 1/8	3 3/8	2 7/8	2 1/2	5	2 1/2	2 1/4	4 1/4	1 1/4	4 1/2					.75
3																											
4																											
5																											

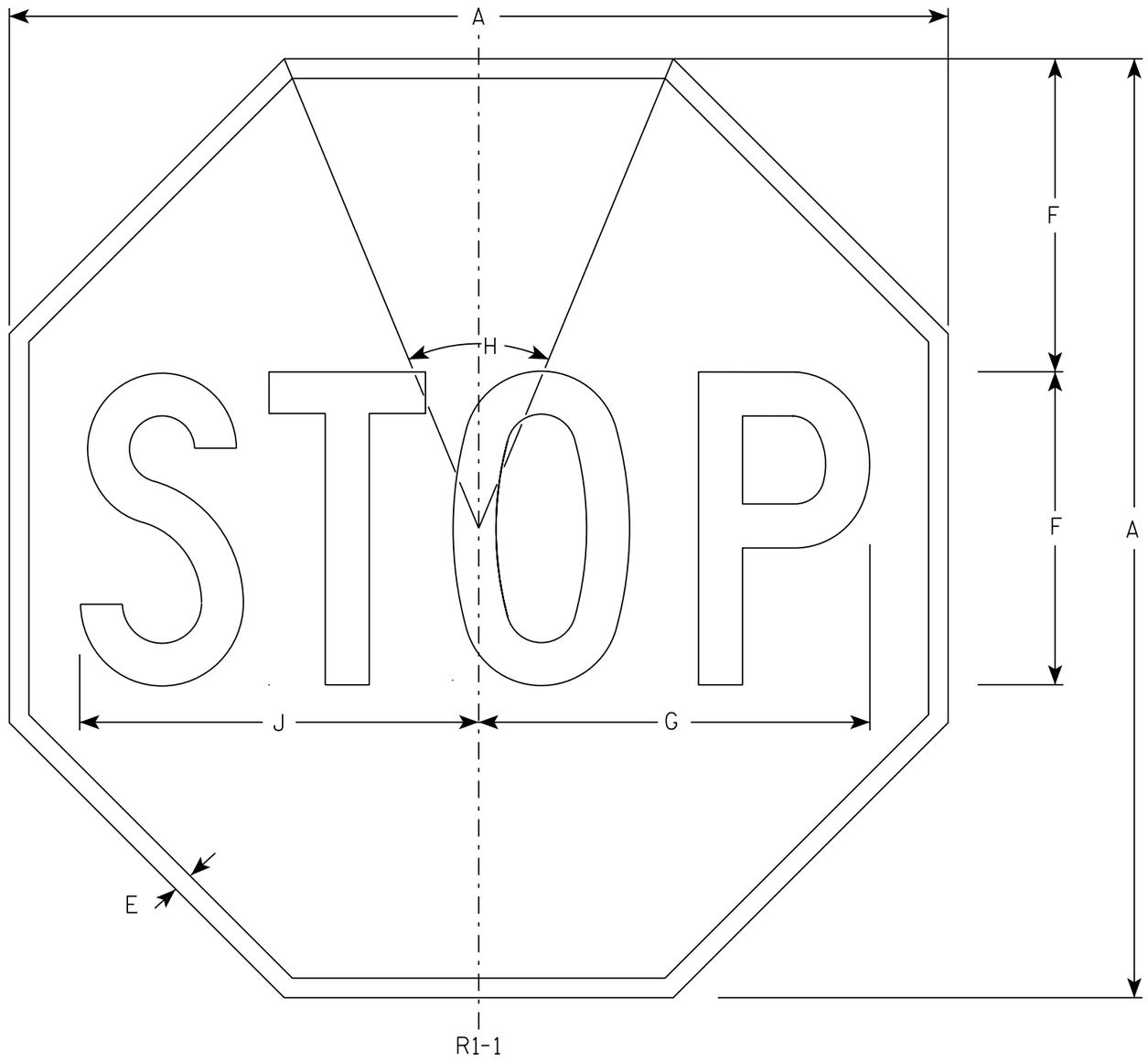
STANDARD SIGN
M7 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 05/04/10 PLATE NO. M7-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 240	E



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

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

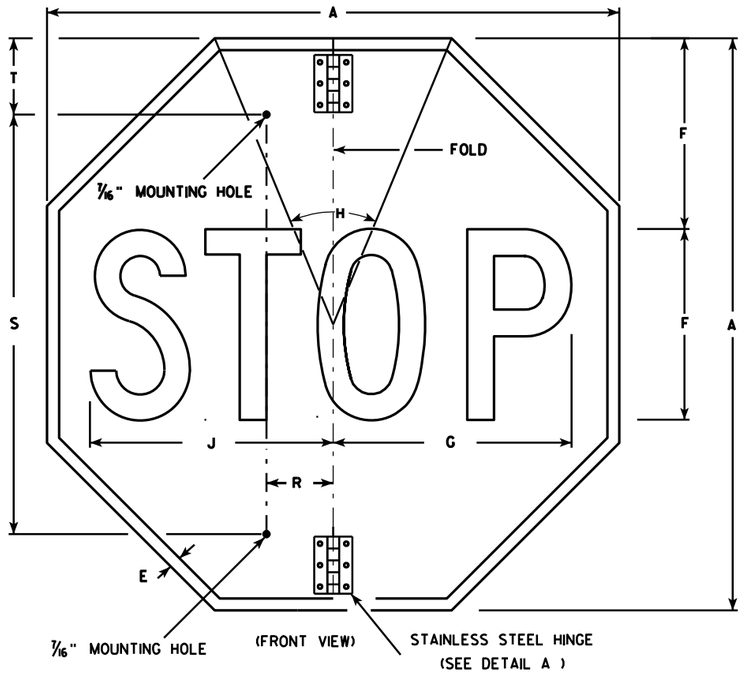
STANDARD SIGN
R1-1

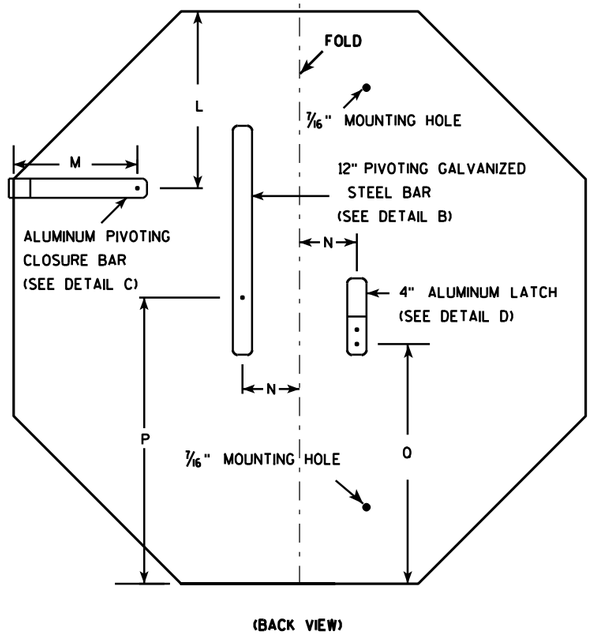
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

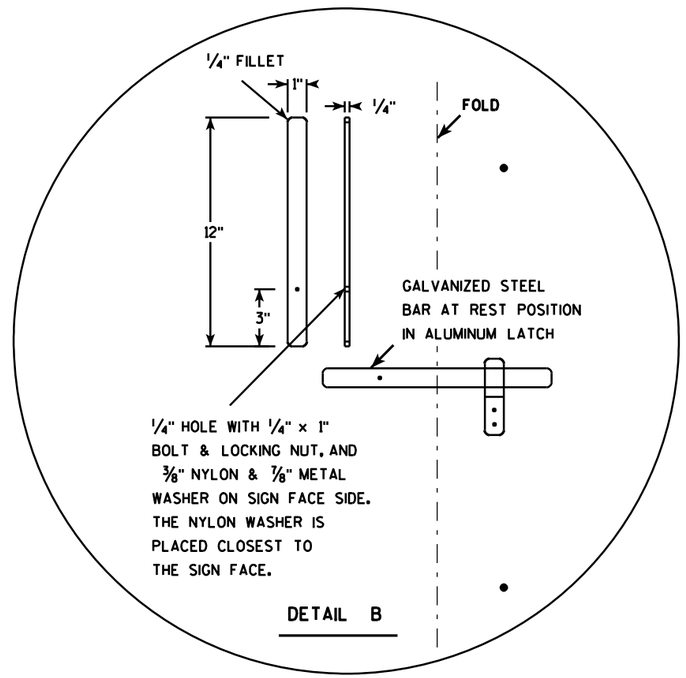
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 241	E

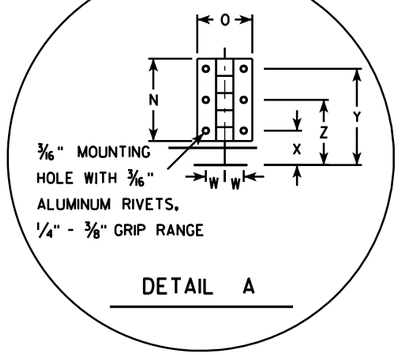


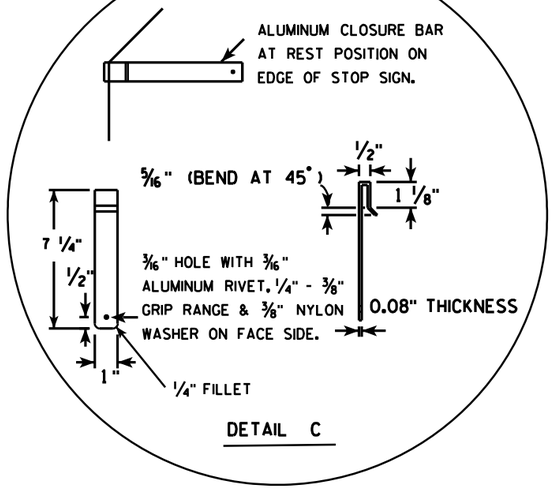


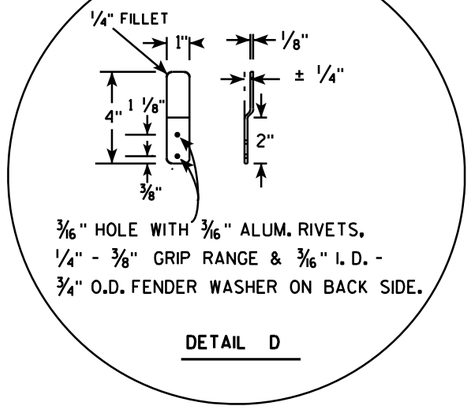
NOTES

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
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

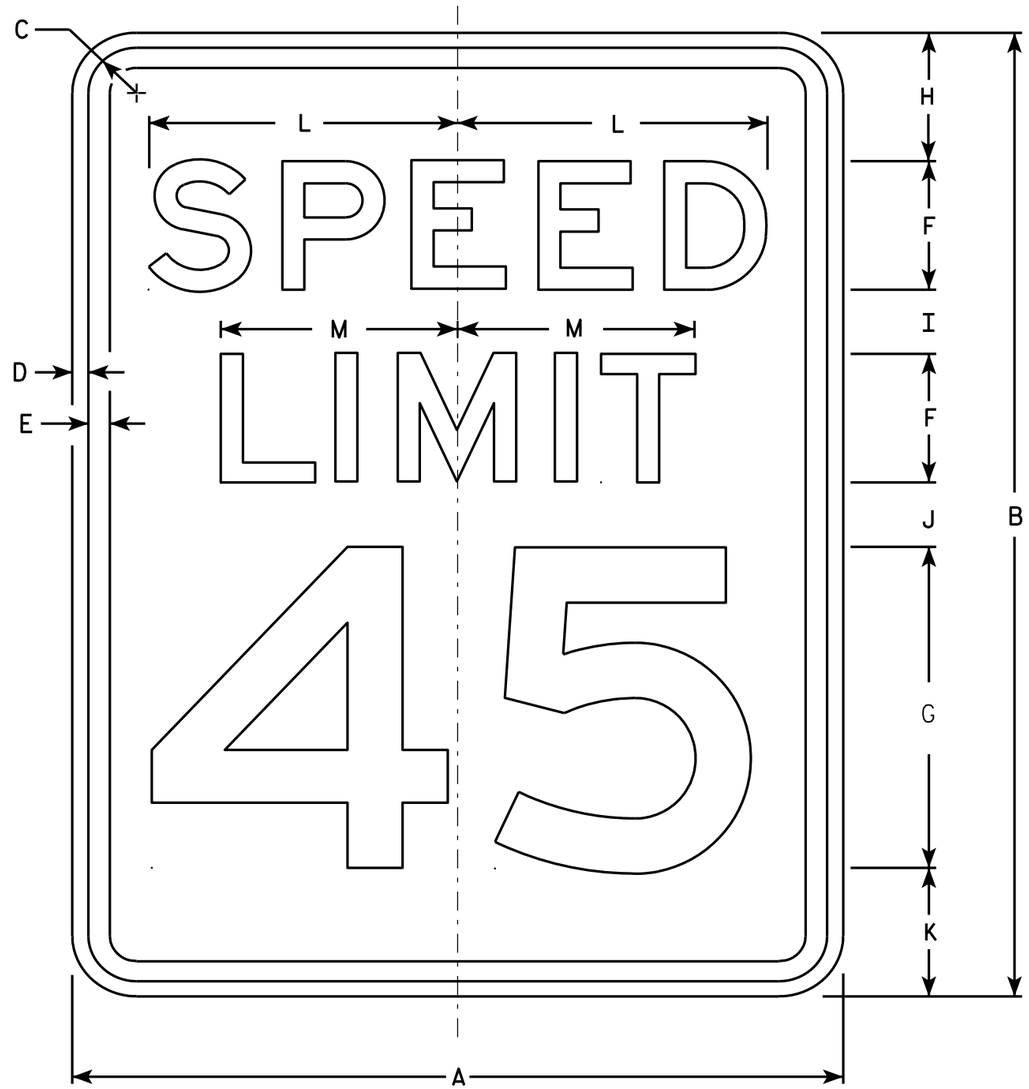
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 242 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

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

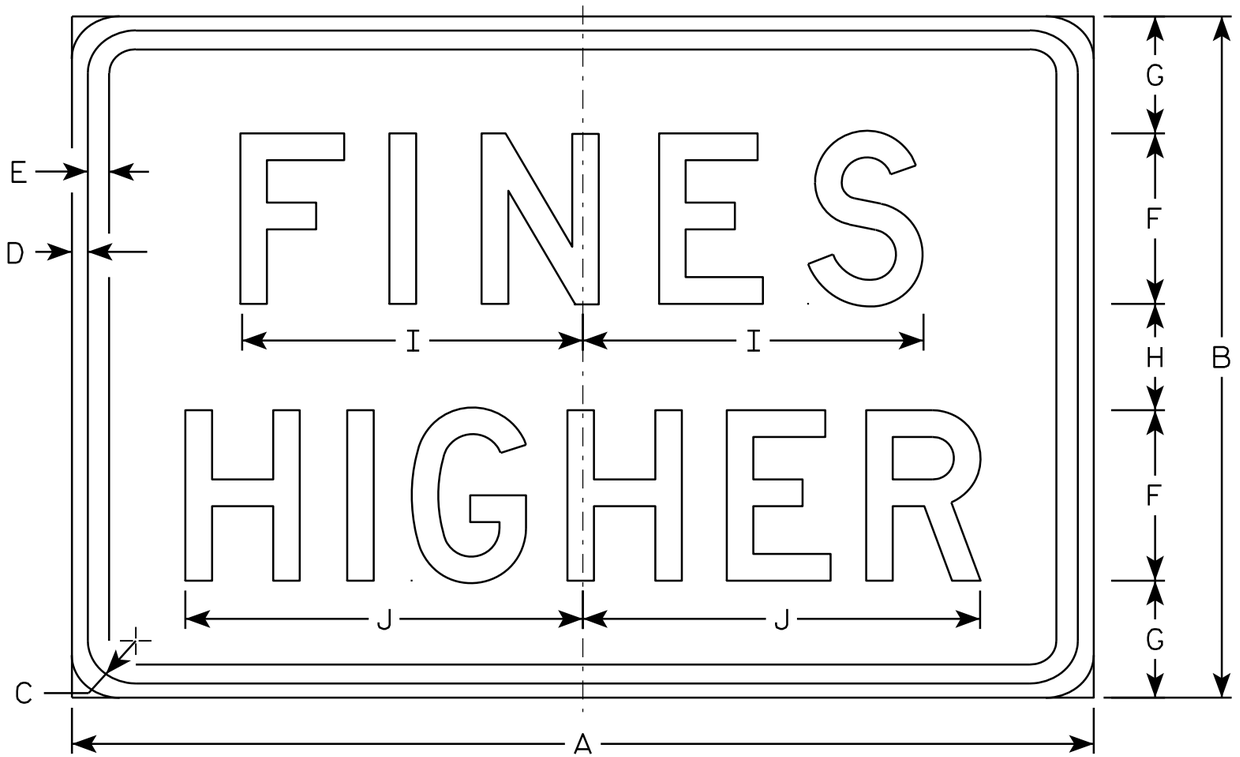
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 243 | E



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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

STANDARD SIGN
R2-6P

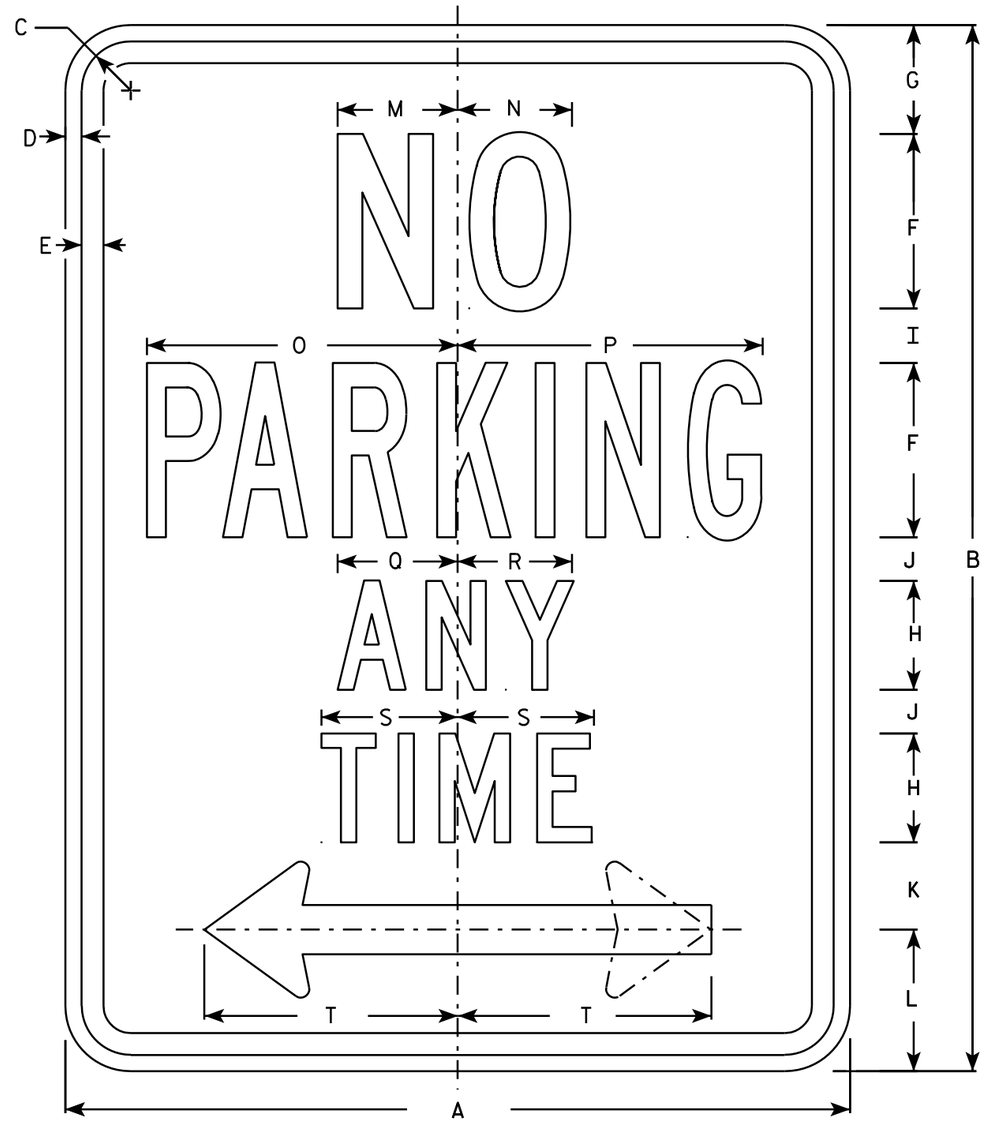
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 244 | E

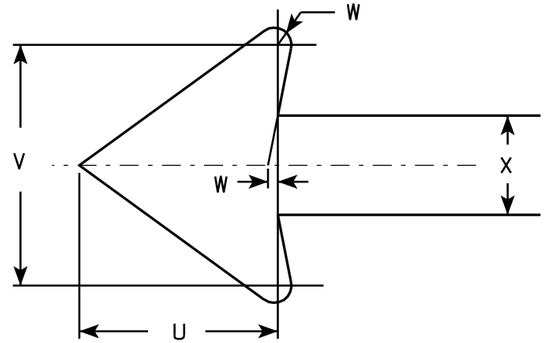
7



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



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 1/8	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 1/8	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 1/8	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 1/8	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

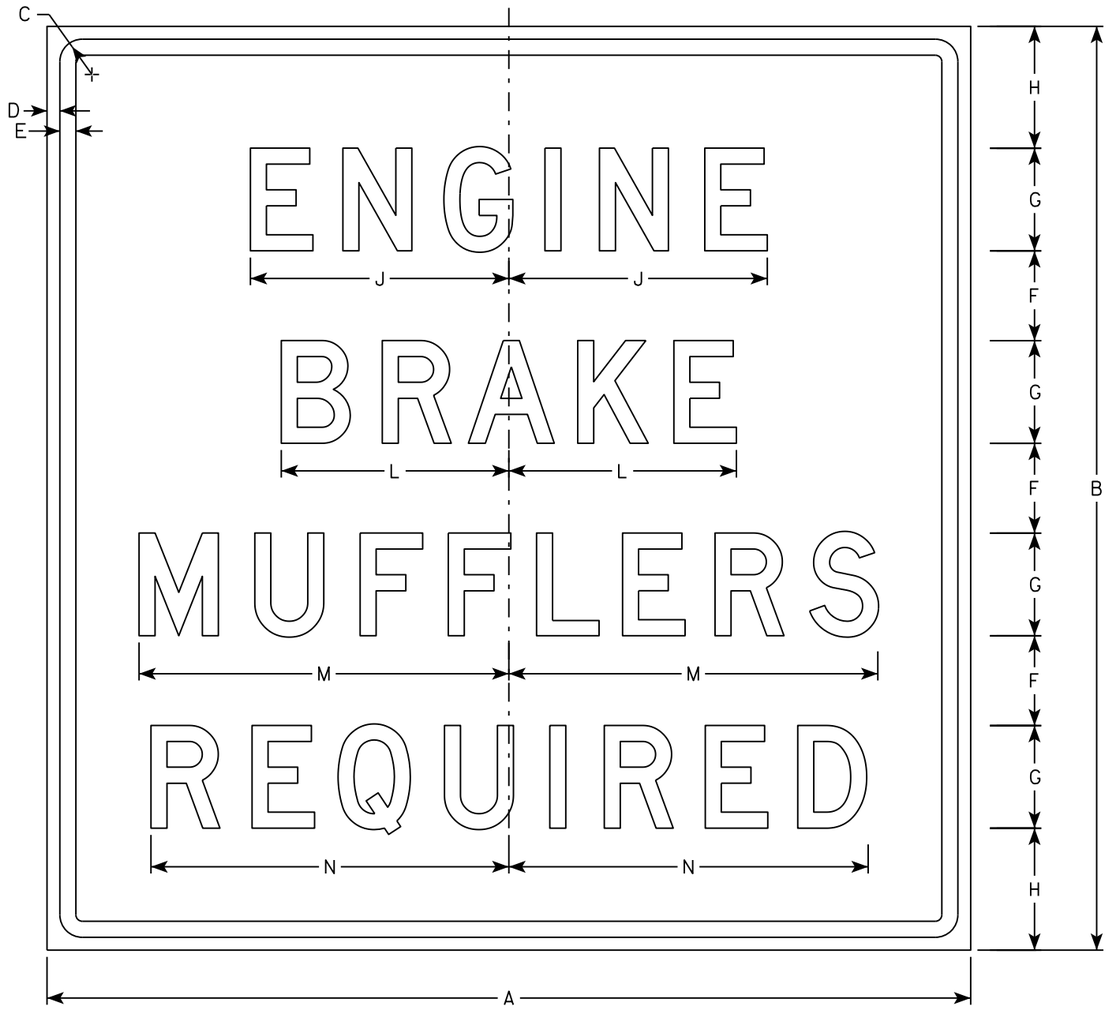
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 245 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



R10-64

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D See note 5
4. Corners shall be rounded when base material is metal

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	36	1 3/8	1/2	5/8	3 1/2	4	4 3/4	2	10 1/8	3 1/2	8 7/8	14 3/8	14													9.0
2S	36	36	1 3/8	1/2	5/8	3 1/2	4	4 3/4	2	10 1/8	3 1/2	8 7/8	14 3/8	14													9.0
2M	36	36	1 3/8	1/2	5/8	3 1/2	4	4 3/4	2	10 1/8	3 1/2	8 7/8	14 3/8	14													9.0
3	42	42	1 3/8	1/2	5/8	4	5	5	3	12 5/8	4	11 1/8	18	17 3/8													12.25
4																											
5																											

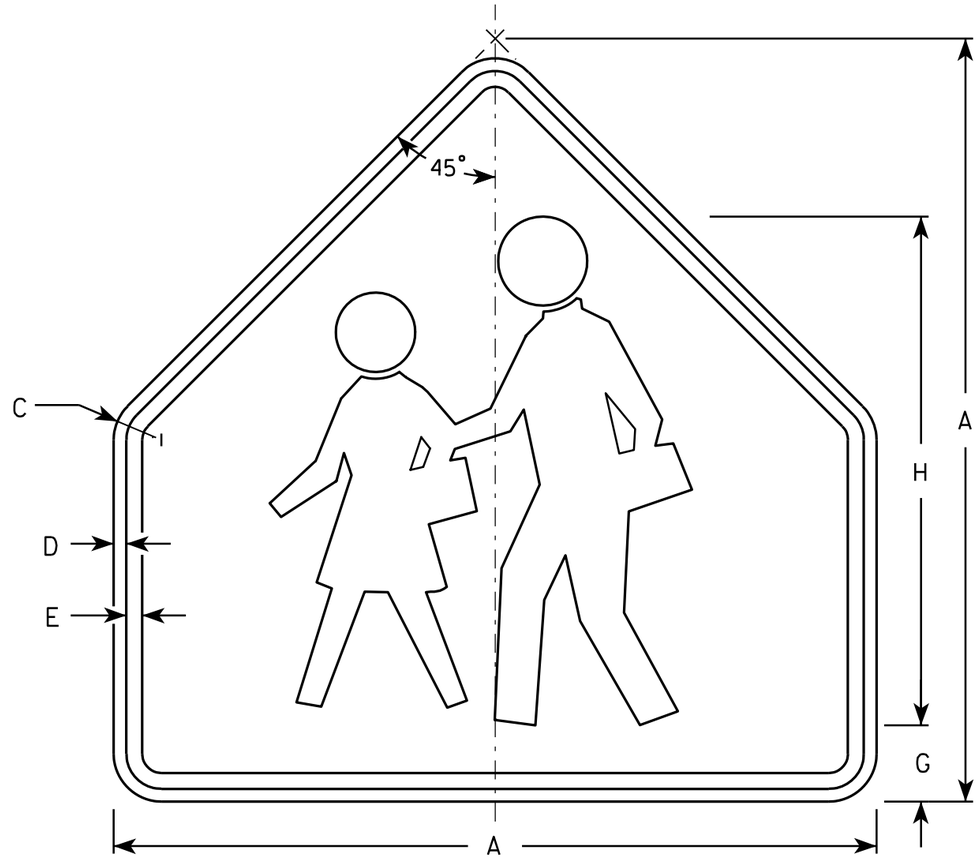
STANDARD SIGN
R10-64

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/3/18 PLATE NO. R10-64.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 246 | E



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   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	30		1 3/8	1/2	5/8		3	20																			4.69
2	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		2 1/4	3/4	1		4 3/4	32																			12
5																											

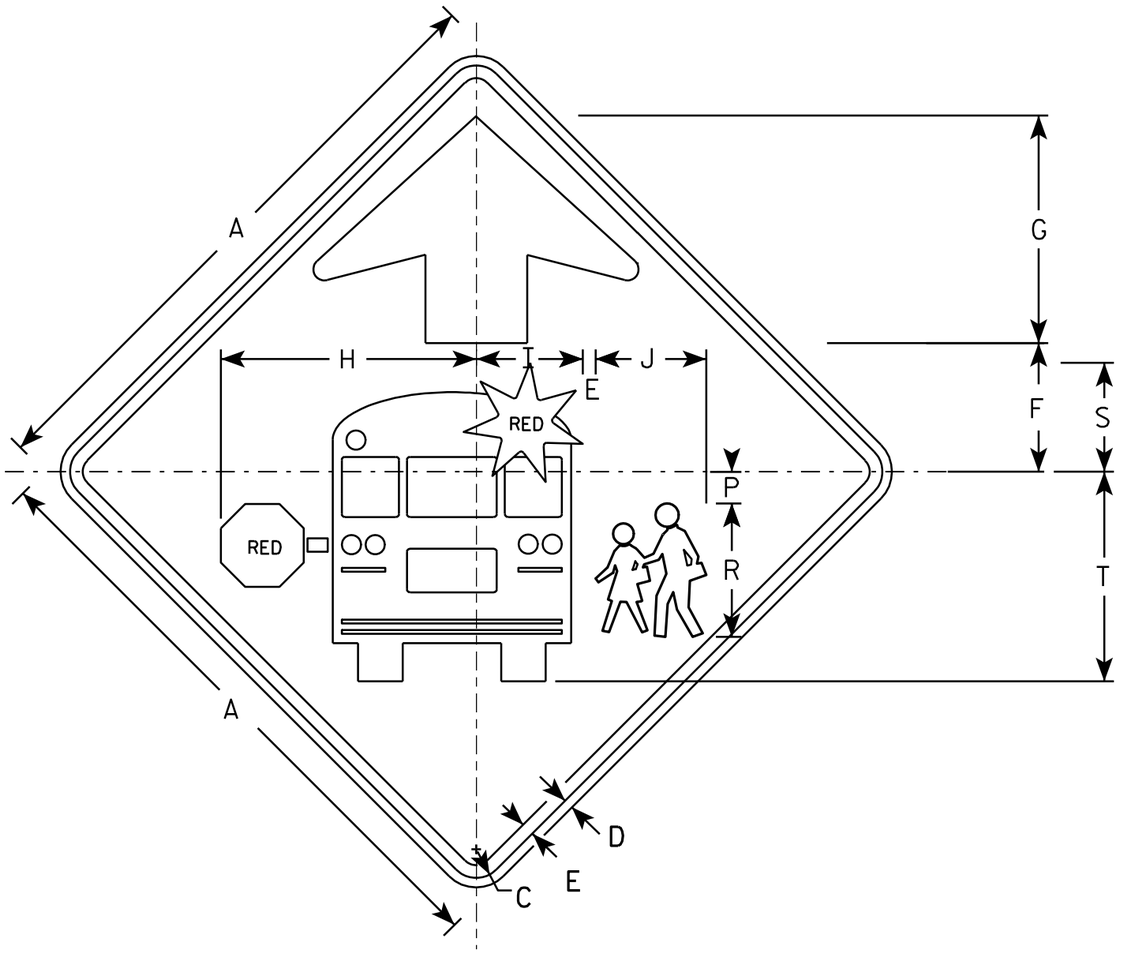
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

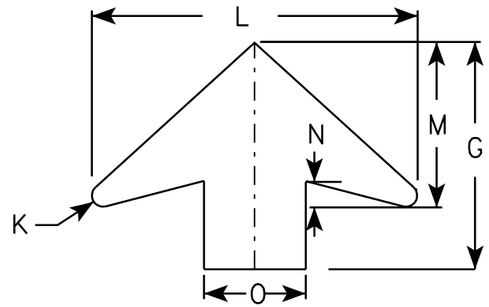
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 247	E



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW-GREEN
   Message - BLACK except as noted
   Circles except PEDS- RED BACKGROUND
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.



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 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN
S3-1

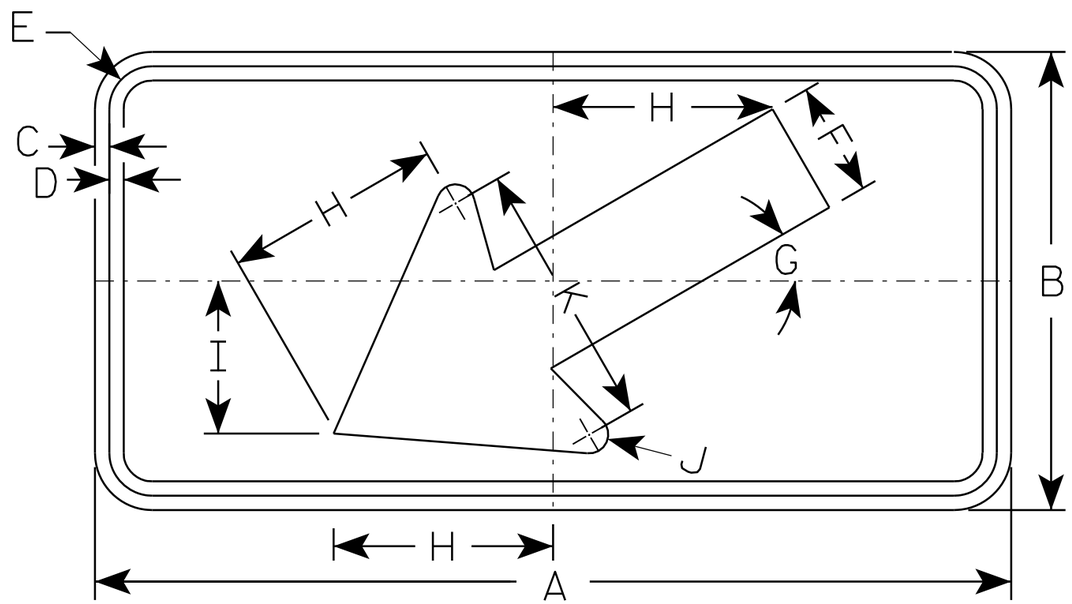
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/8/10 PLATE NO. S3-1.6

PROJECT NO:

SHEET NO: 248 E



S16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. S16-7R are the same as S16-7L 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	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

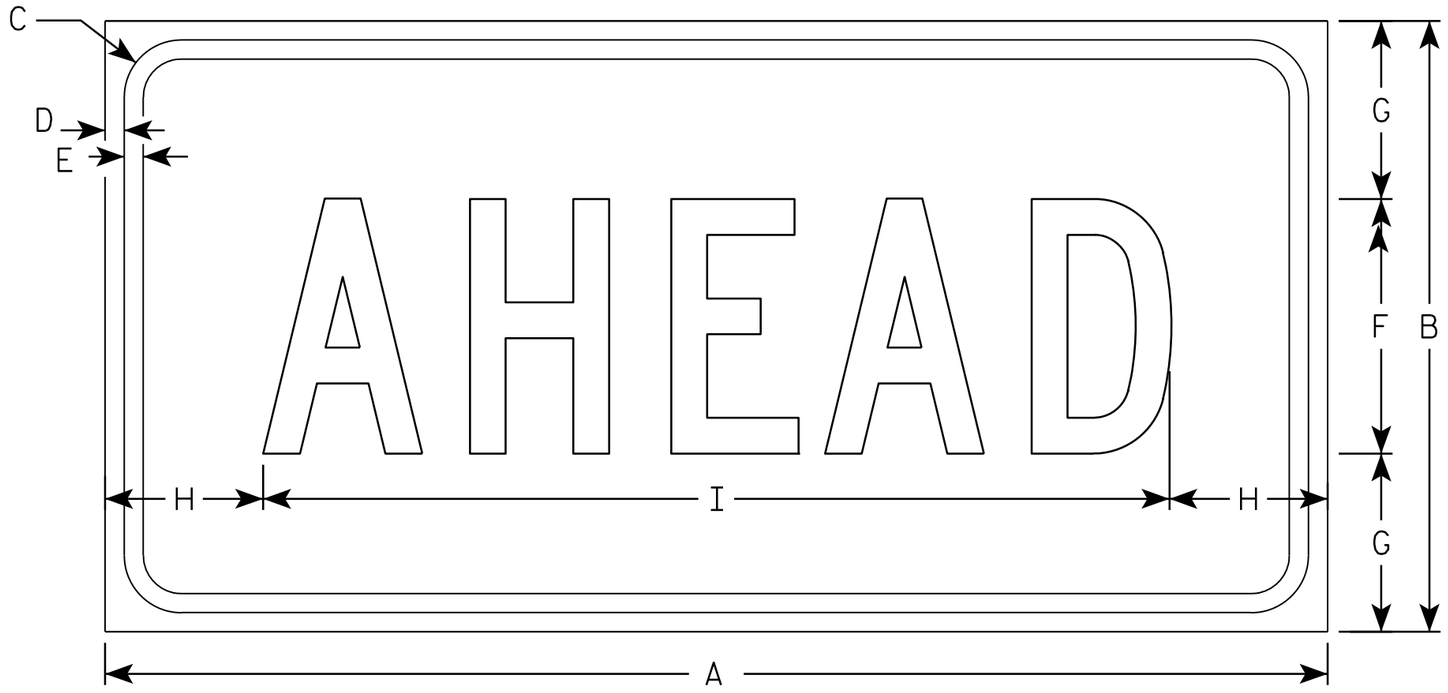
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 249 | E



S16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   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	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

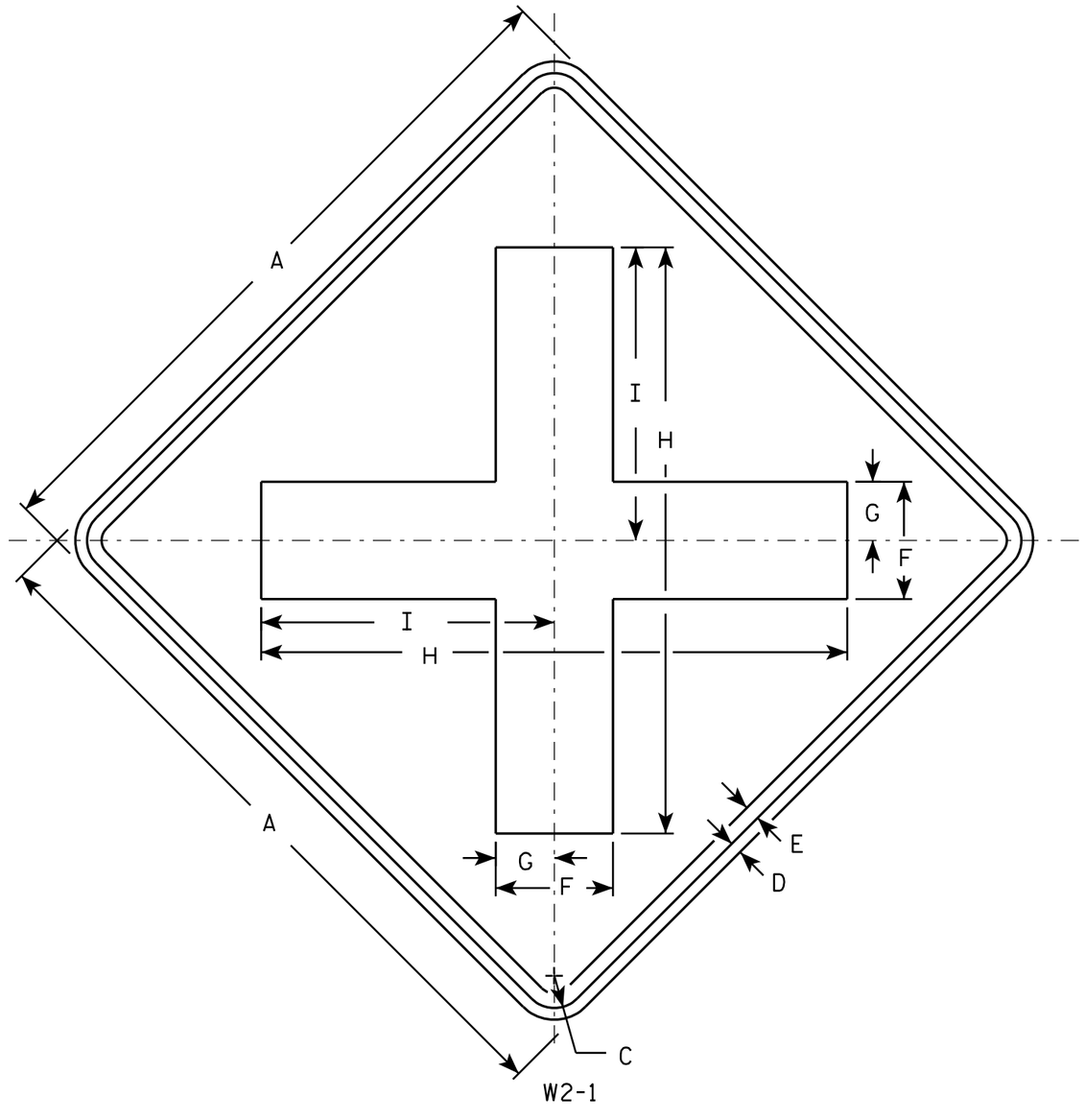
STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 250 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

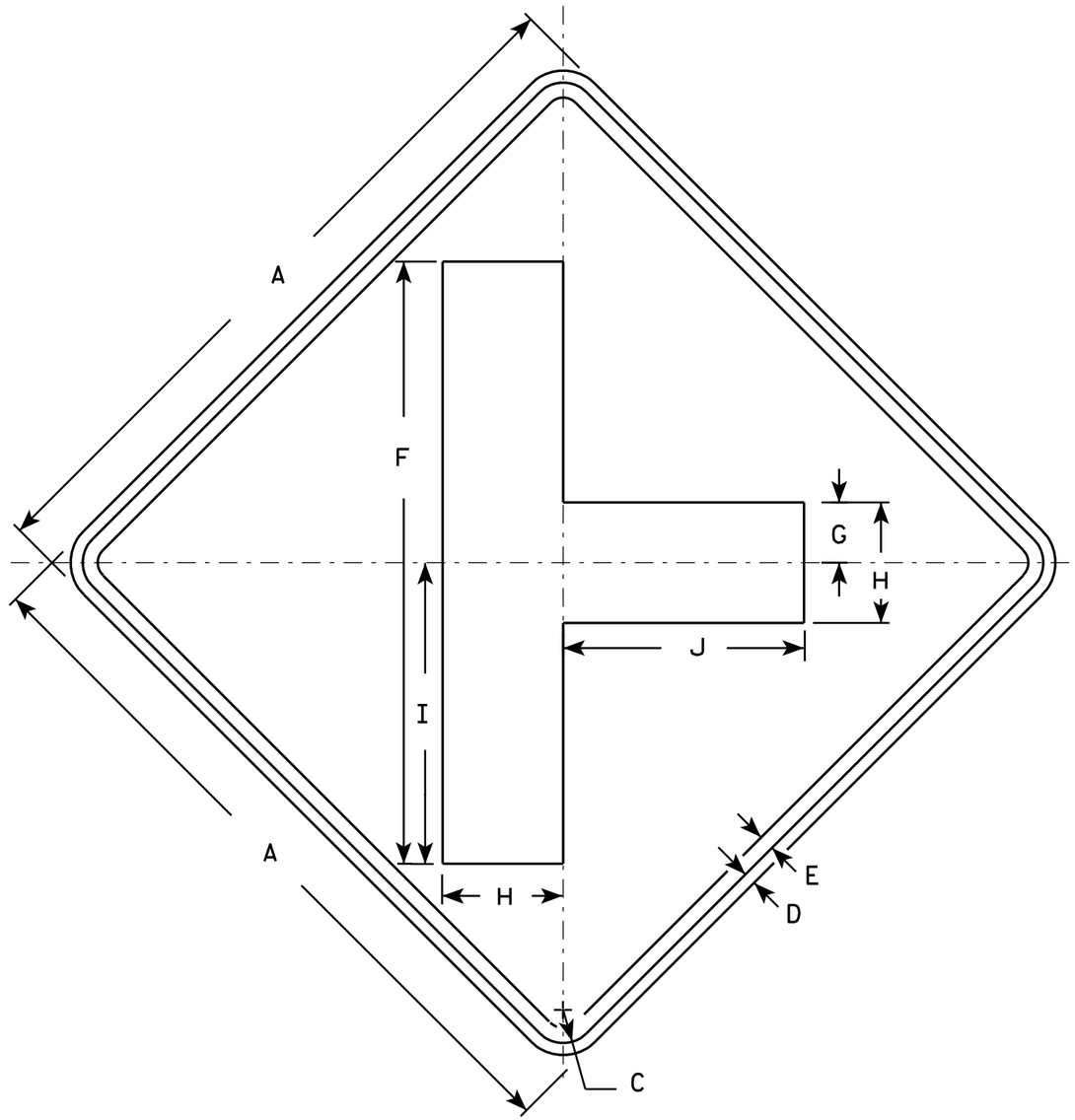
STANDARD SIGN
W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 251	E



W2-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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	24		1 1/8	3/8	1/2	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

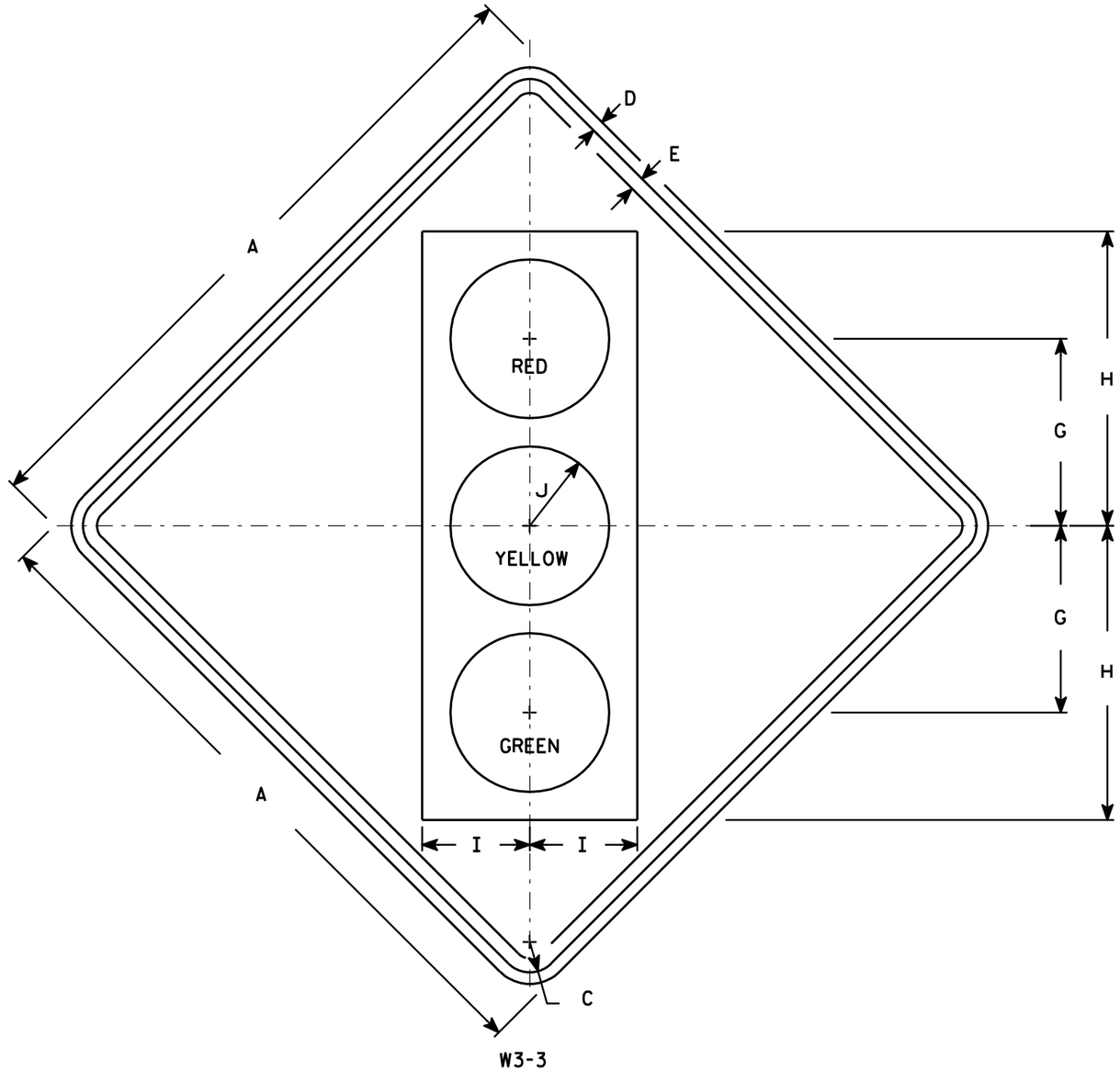
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 252	E



W3-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

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		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

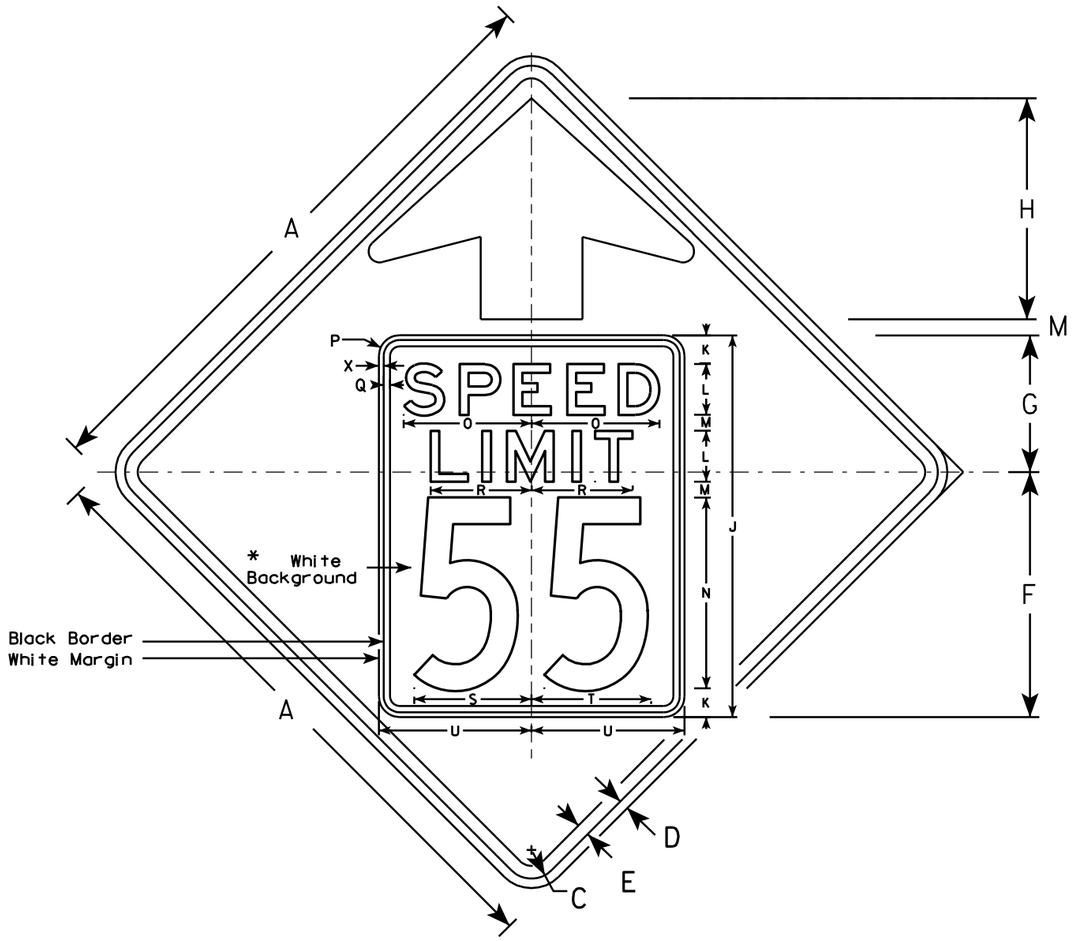
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 253 | E

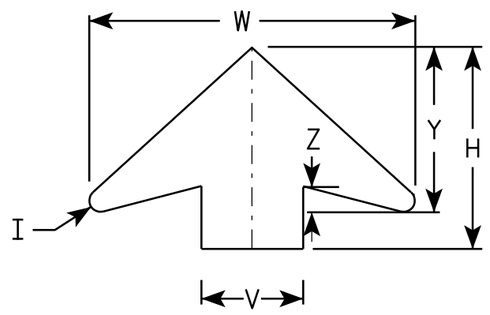


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   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



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		1 5/8	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		1 5/8	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		1 5/8	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		2 1/4	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		2 1/4	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

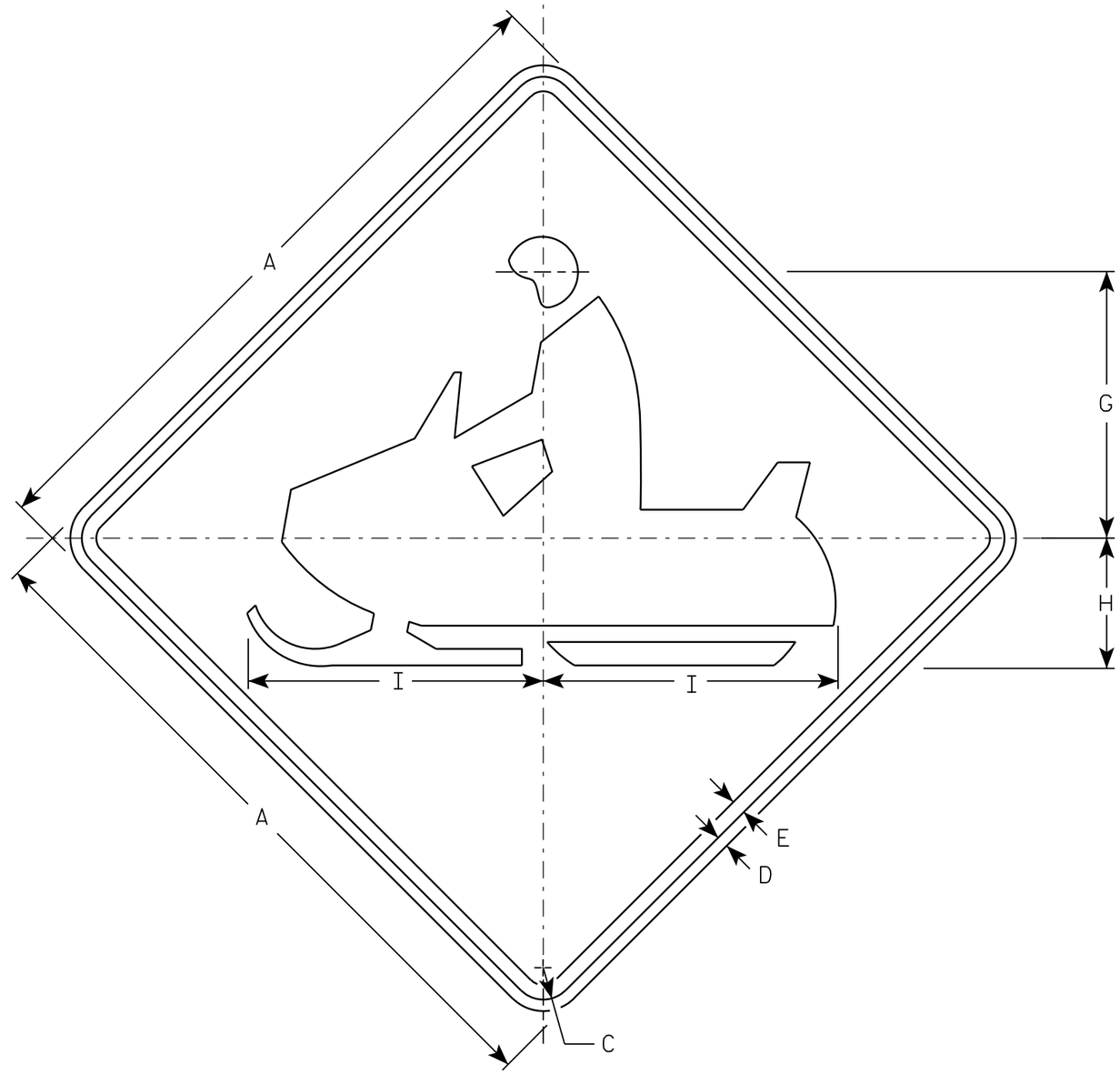
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 254 E



W11-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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	24		1 1/8	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

STANDARD SIGN
W11-6

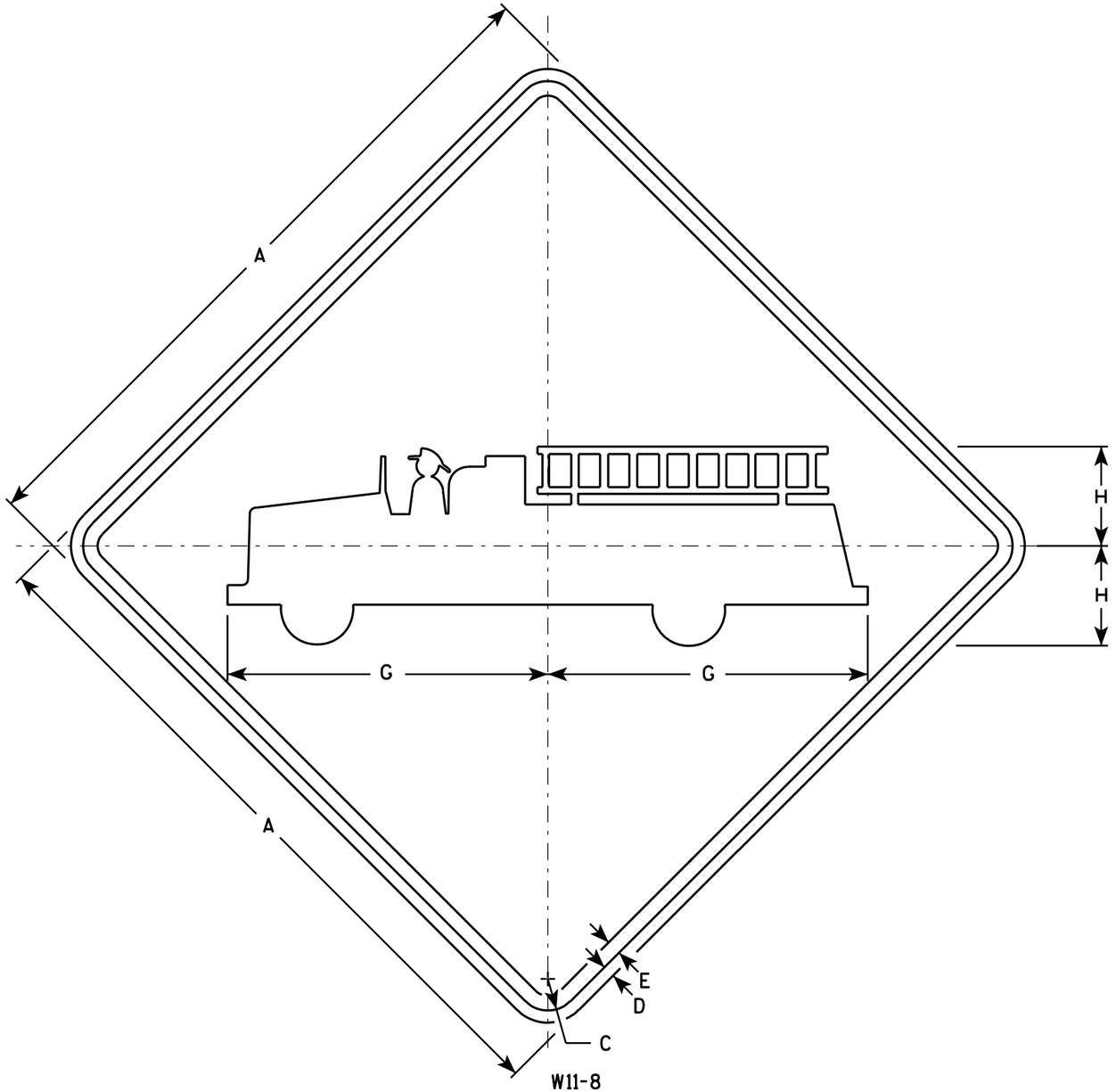
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-6.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 255 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W116.DGN PLOT DATE : 13-MAR-2013 12:57 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.954276:1.000000
WISDOT/CADDS SHEET 42



W11-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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	24		1 1/8	3/8	1/2		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN
W11-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-8.7

PROJECT NO:

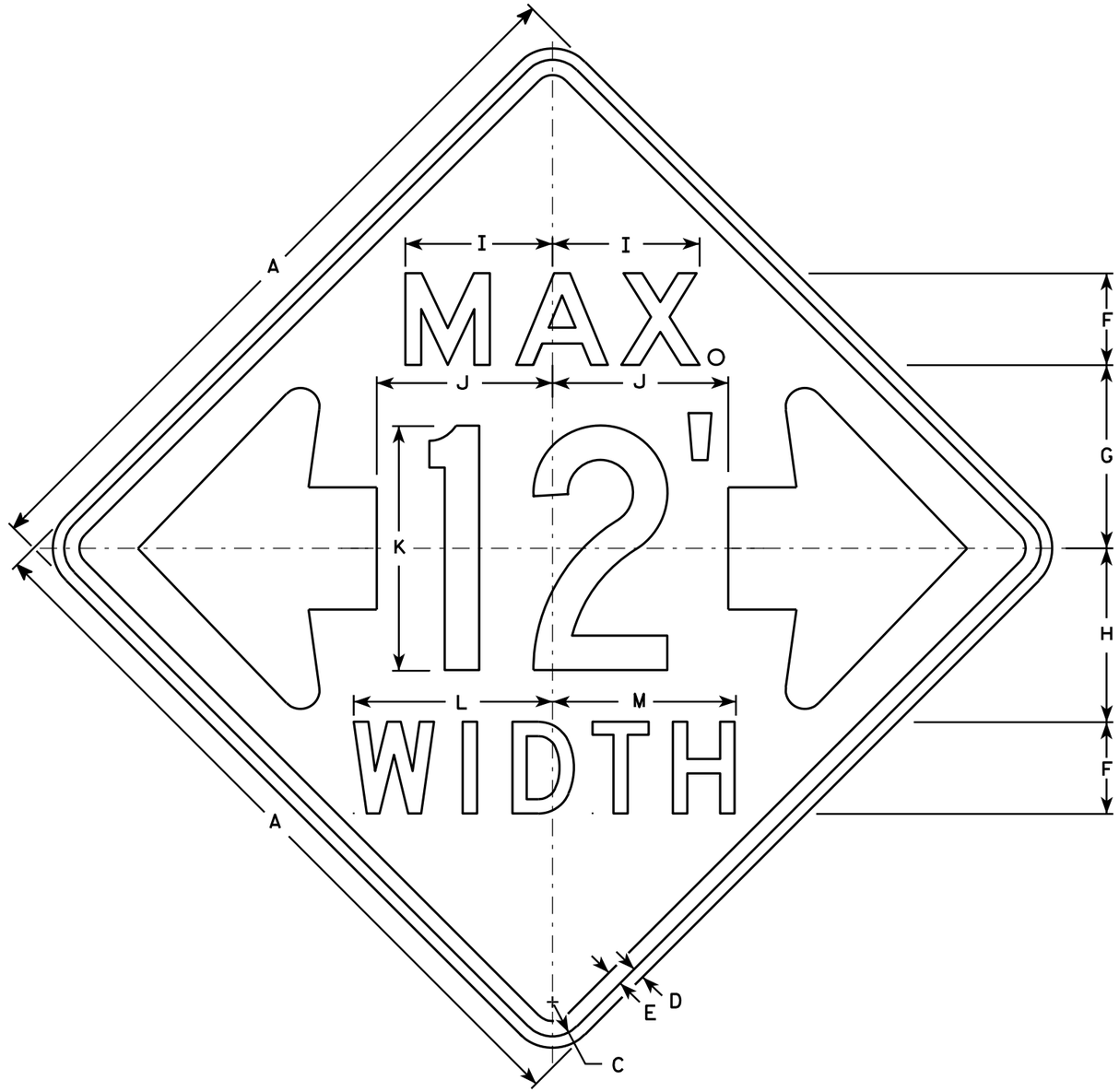
SHEET NO: 256 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W118.DGN PLOT DATE : 13-MAR-2013 12:58 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

7

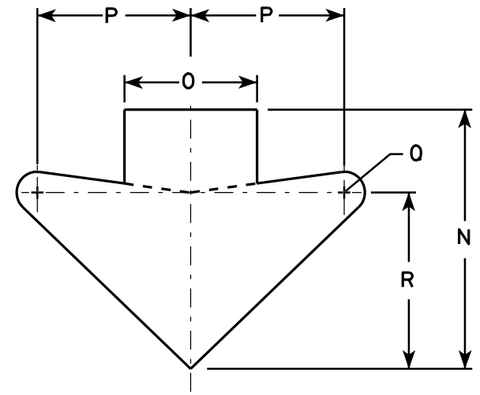
7



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

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

STANDARD SIGN
W12-52

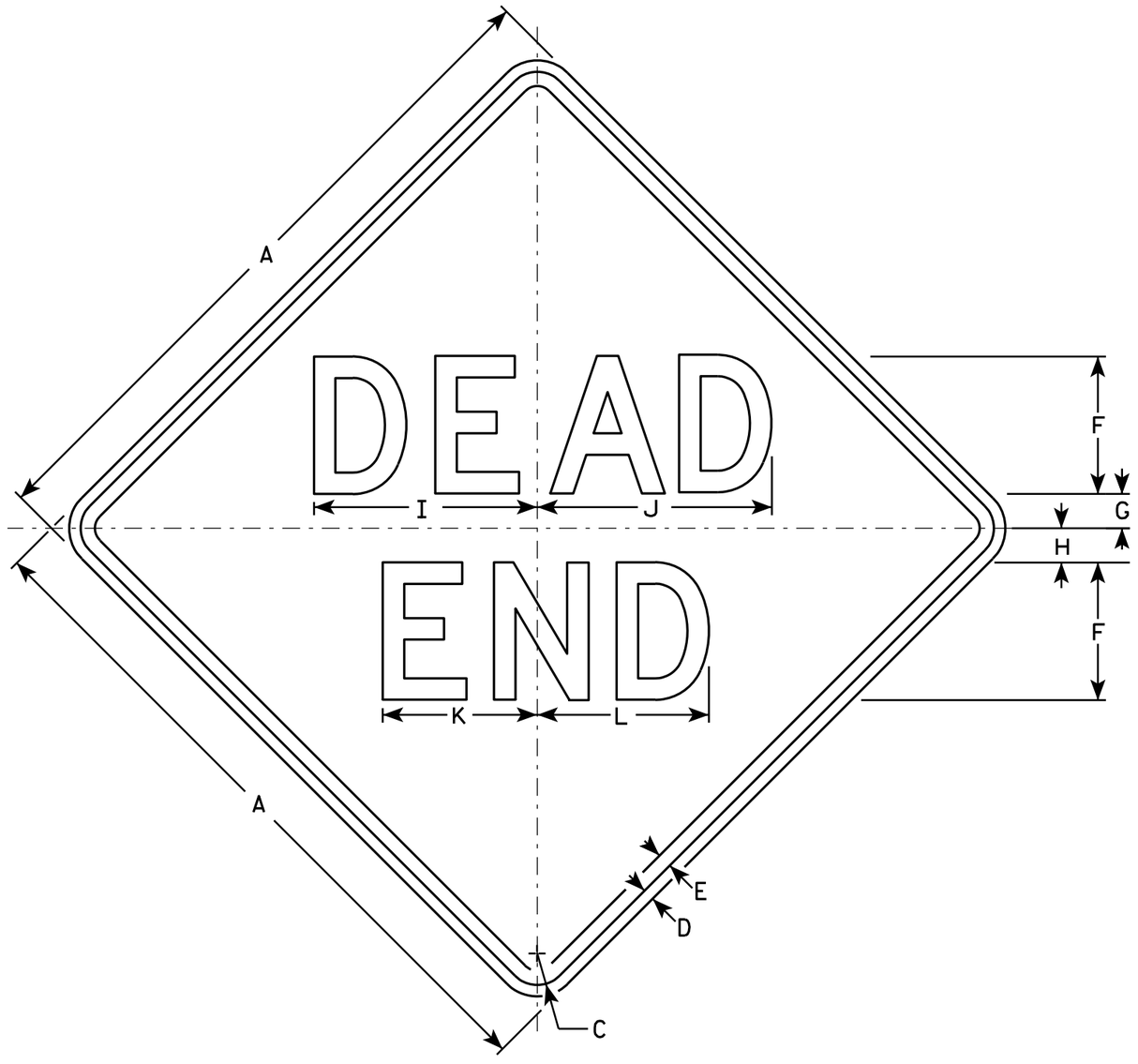
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 257 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



W14-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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.

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 1/8	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

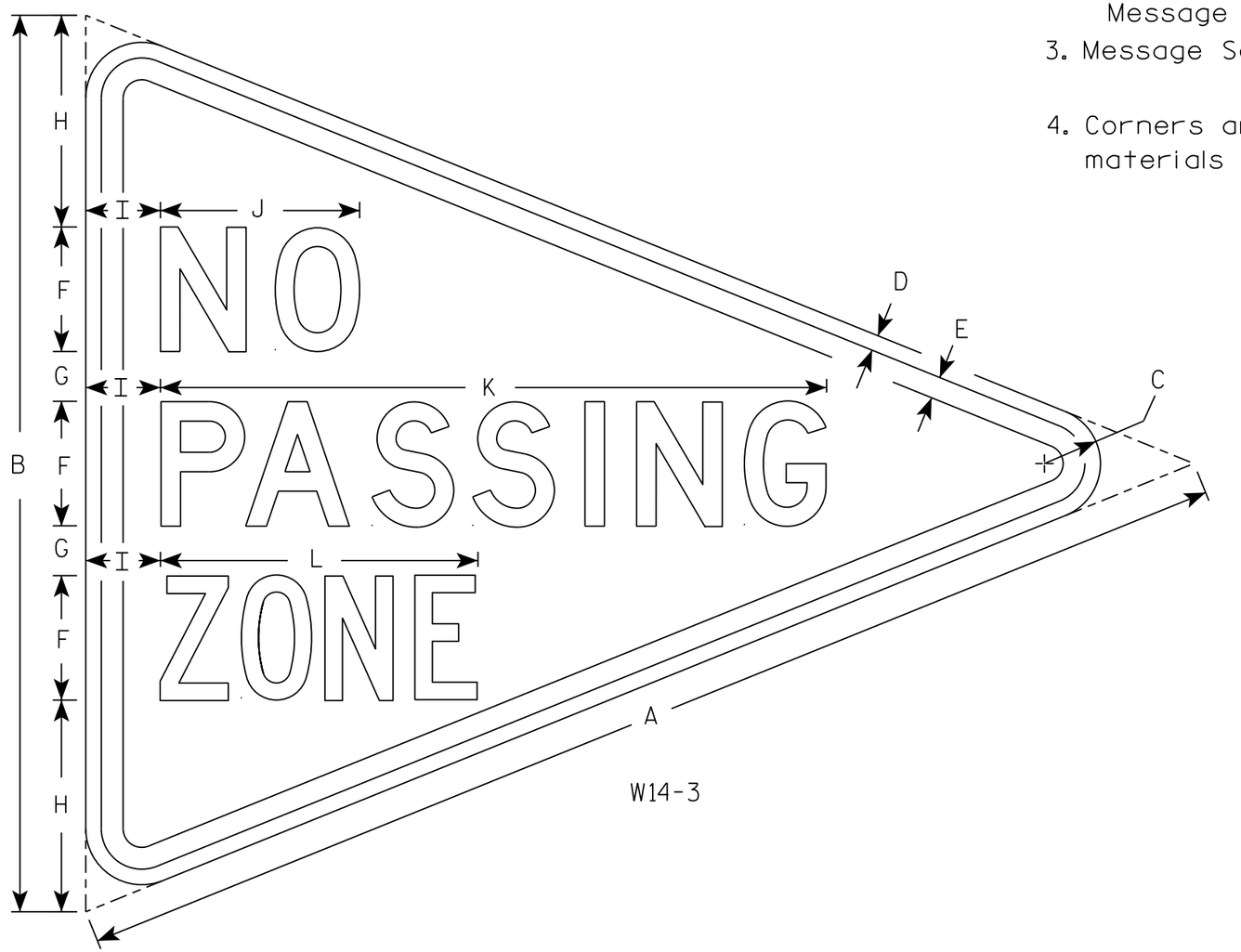
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 258	E

NOTES

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



W14-3

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

STANDARD SIGN
W14-3

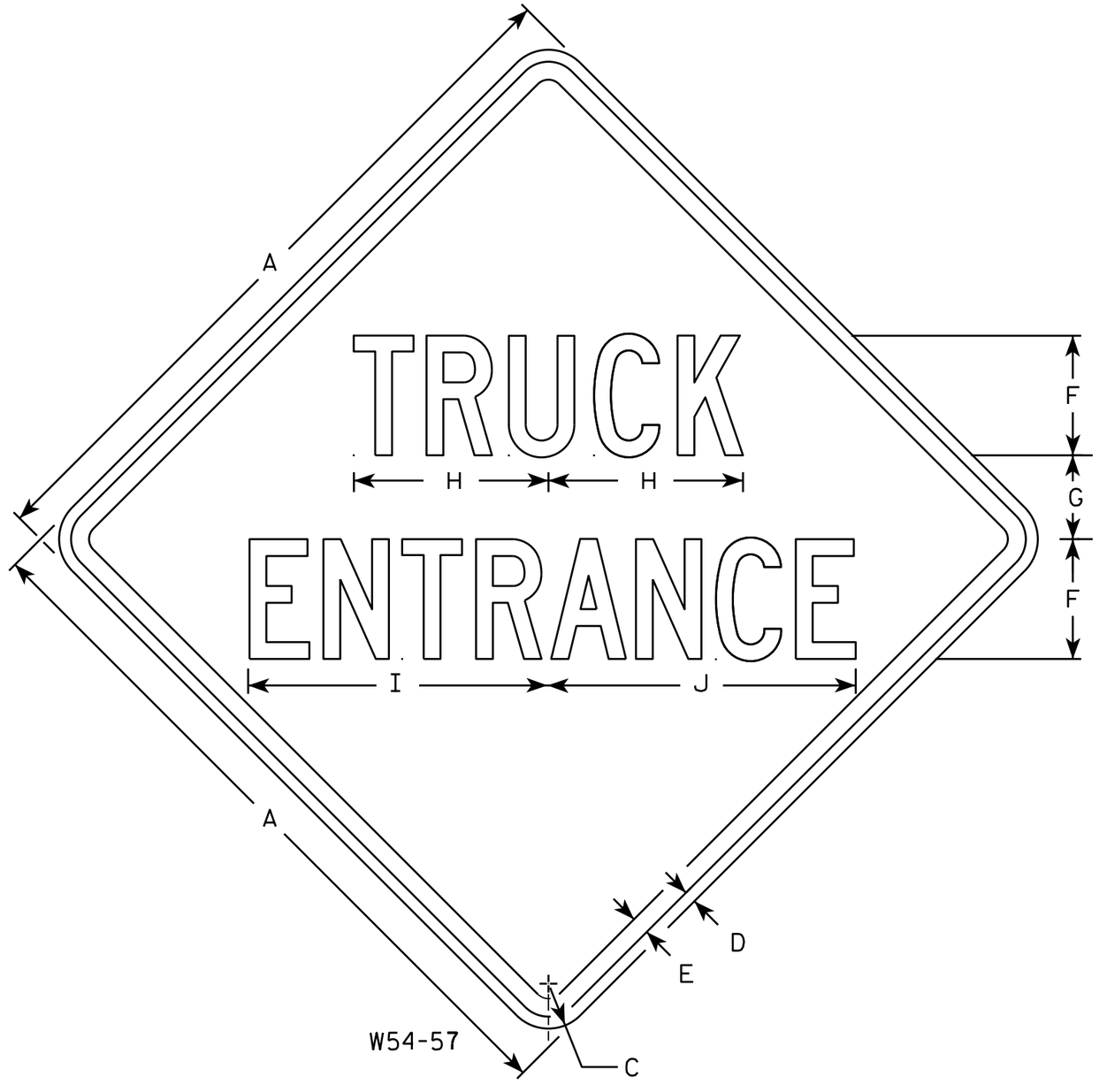
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 259 | E

7



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 3/8	1/2	5/8	5	3 1/2	8 1/8	12 1/2	12 7/8																	6.25
2M	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
3	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
4	48		2 1/4	3/4	1	8	5 1/2	13	20	20 5/8																	16.00
5																											

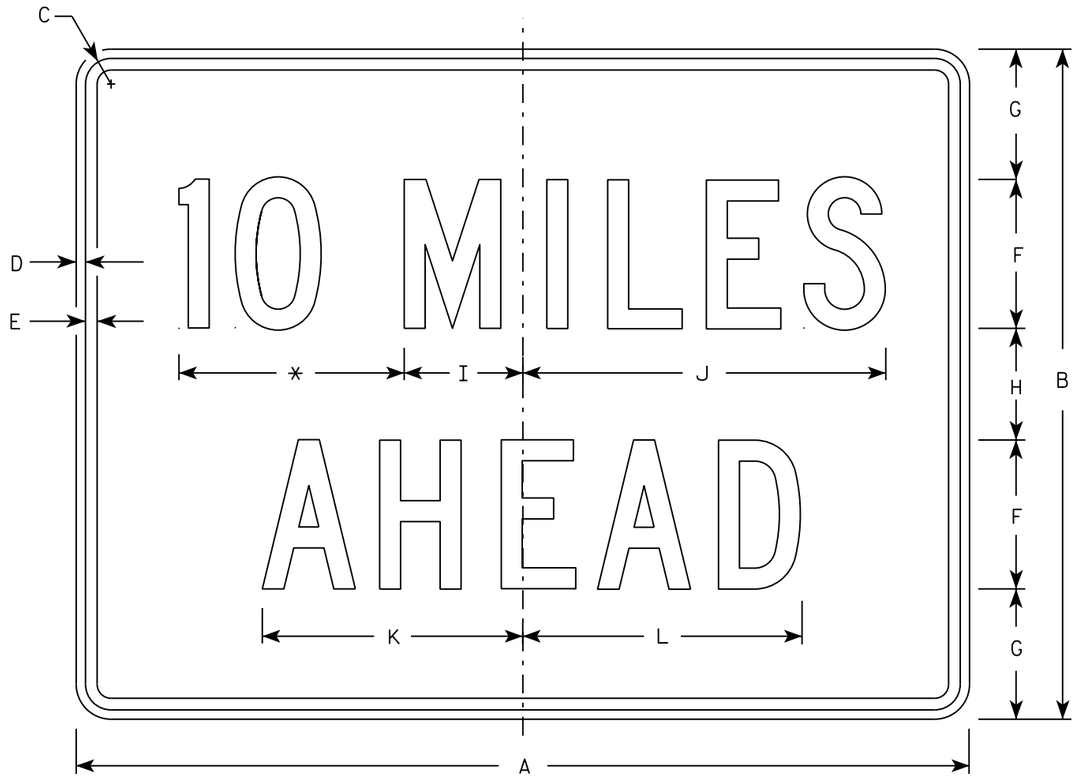
STANDARD SIGN
W54-57

WISCONSIN DEPT OF TRANSPORTATION

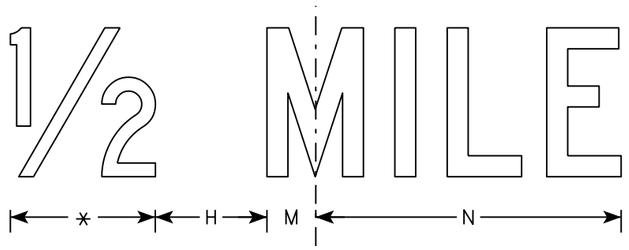
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE W54-57.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

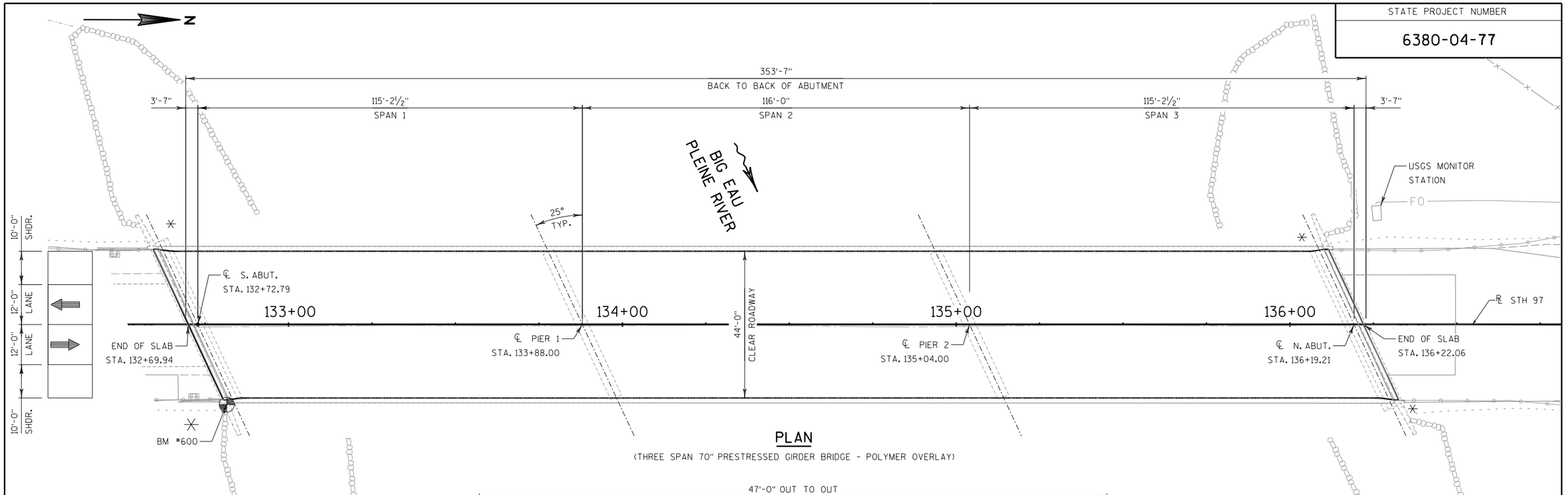
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 261	E

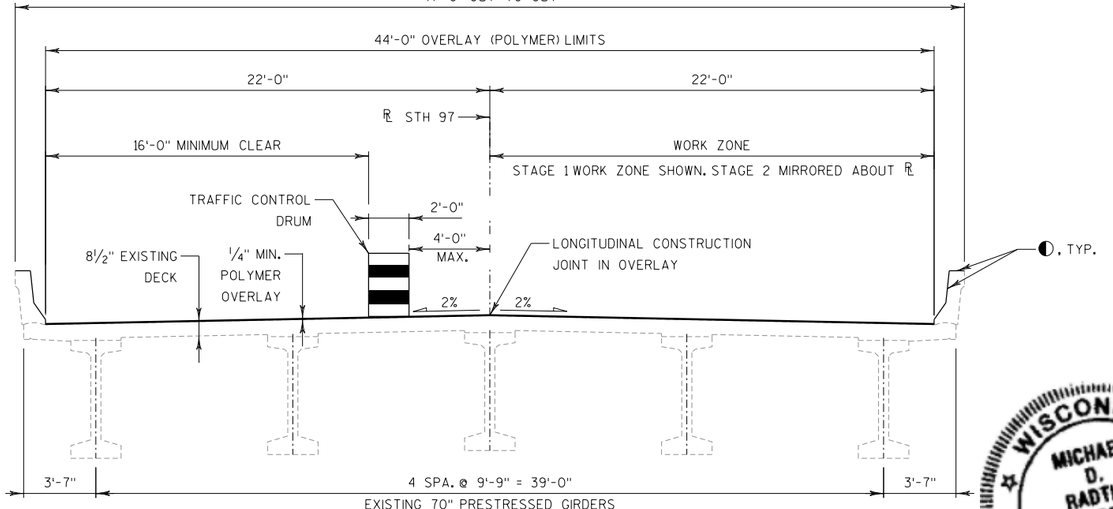
STATE PROJECT NUMBER

6380-04-77



PLAN

(THREE SPAN 70" PRESTRESSED GIRDER BRIDGE - POLYMER OVERLAY)



CROSS SECTION THRU DECK

(LOOKING NORTH)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

STRUCTURAL DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE EXISTING STRUCTURE, B-37-248, IS A THREE-SPAN 70" PRESTRESSED GIRDER STRUCTURE WITH AN OVERALL WIDTH OF 47'-0" AND OVERALL LENGTH OF 353'-7".

THE CAULK LOCATED IN THE PARAPET EXPANSION JOINTS TESTED POSITIVE FOR ASBESTOS CONTAINING MATERIAL. THIS MATERIAL SHALL NOT BE DISTURBED DURING CONSTRUCTION PER THE SPECIFICATIONS.

A 16 FOOT TRAFFIC LANE WILL BE MAINTAINED DURING OVERLAY OPERATIONS. SEE ROADWAY PLANS FOR TRAFFIC CONTROL DETAILS.

◐ APPLY PIGMENTED SURFACE SEALER TO TOP AND INSIDE FACES OF PARAPETS.

✳ THRIE BEAM RAIL ATTACHMENT

◭ USE POLYMER OVERLAY MATERIALS AS DIRECTED BY FIELD ENGINEER TO REESTABLISH TYPICAL GRADE ELEVATION PRIOR TO POLYMER OVERLAY, MATERIALS AND PLACEMENT INCLUDED IN BID ITEM "POLYMER OVERLAY". DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	TOTAL
502.3210	PIGMENTED SURFACE SEALER	SY	286
◭ 509.5100.S	POLYMER OVERLAY	SY	1722
509.9050.S	CLEANING PARAPETS	LF	720

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
600	132+81, 24' RT	WISDOT ALUMINUM DISK IN SE WING WALL	1188.67

TRAFFIC DATA

ADT = 4,500 (2018)
ADT = 5,000 (2038)
RDS = 60 M.P.H.

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS-20
INVENTORY RATING: HS-27
OPERATING RATING: HS-45
WISCONSIN STD. PERMIT VEHICLE (WIS-SPV) = 250 KIPS

WISCONSIN MICHAEL D. RADTKE 40967 Elm Grove WI PROFESSIONAL ENGINEER
11/08/2017

LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER (608) 266-8489
CONSULTANT: MIKE RADTKE (414) 347-1607

NO.	DATE	REVISION	BY

emcs LLC
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR — 02/08/18
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-37-248

STH 97 OVER BIG EAU PLEINE RIVER

COUNTY	TOWN
MARATHON	EAU PLEINE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MDR	AJC	MDR	AJC

POLYMER OVERLAY

SHEET 1 OF 1
262

8

8

SIDEWALK RECONSTRUCTION (STA 80+30 - STA 84+92)							
		AREA (SF)		INCREMENTAL VOLUME (CY)		CUMULATIVE VOLUME (CY)	
STATION	DISTANCE	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.25
80+30	0	0	0	0	0	0	0
80+50	20	1	1	0	0	0	0
81+00	50	1	1	1	1	2	2
81+50	50	0	3	1	4	3	7
82+00	50	0	1	1	3	4	11
82+50	50	1	0	2	1	5	12
83+00	50	3	0	4	0	9	13
83+50	50	3	0	6	0	16	13
84+00	50	1	1	4	1	20	14
84+50	50	1	0	2	1	22	15
84+92	42	2	0	3	1	25	16
				25	13		

SIDEWALK RECONSTRUCTION (STA 85+73 - STA 95+16)							
		AREA (SF)		INCREMENTAL VOLUME (CY)		CUMULATIVE VOLUME (CY)	
STATION	DISTANCE	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.25
85+73	0	4	0	0	0	0	0
86+00	27	1	0	3	0	3	0
86+50	50	1	0	2	1	5	1
87+00	50	1	0	2	0	7	2
87+19	19	5	0	2	0	9	2
87+50	31	1	0	4	0	13	2
88+00	50	1	0	2	1	16	3
88+50	50	2	0	3	0	18	3
89+00	50	6	1	7	1	26	4
89+50	50	4	2	9	2	35	7
89+68	18	4	1	3	1	37	8
90+00	32	2	1	4	1	41	9
90+50	50	8	0	10	1	51	10
90+56	6	6	0	2	0	53	10
91+00	44	0	5	5	5	58	16
91+50	50	0	10	0	15	58	34
92+00	50	0	8	0	17	58	55
92+50	50	0	7	0	14	58	72
92+67	17	0	10	0	5	58	79
93+00	33	0	10	0	12	58	94
93+57	57	0	3	0	15	58	113
94+00	43	1	0	1	3	59	116
94+50	50	1	0	2	0	61	117
95+00	50	1	0	2	0	64	117
95+16	16	3	0	1	0	65	117
				65	94		

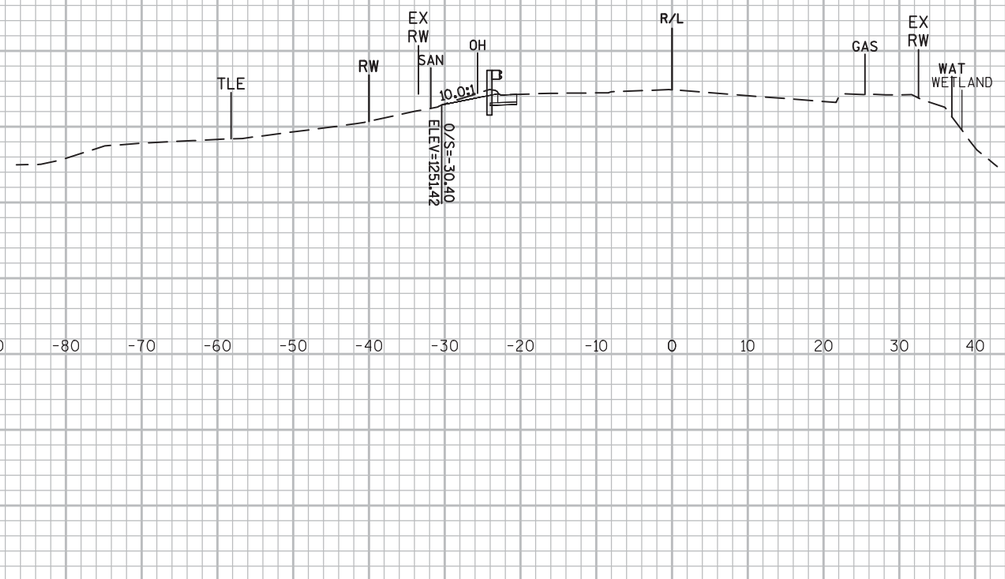
CATTLE PASS REMOVAL (STA 347+40 - STA 349+60)							
		AREA (SF)		INCREMENTAL VOLUME (CY)		CUMULATIVE VOLUME (CY)	
STATION	DISTANCE	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.25
347+40	0	4	9	0	0	0	0
347+50	10	6	4	2	2	2	3
348+00	50	30	3	33	6	34	11
348+50	50	32	35	57	35	91	55
349+00	50	18	13	46	44	137	110
349+50	50	5	5	22	17	159	130
349+60	10	8	0	2	1	161	132
				161	105		

NOTES

CUT MAY INCLUDE SOME MINOR QUANITIES OF SALVAGED/UNUSABLE PAVEMENT MATERIAL

EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR

EARTHWORK AT GUARDRAIL REPLACEMENTS IS NOT SHOWN AND IS PART OF THE BARRIER SYSTEM GRADING SHAPING FINISHING ITEM (SEE SECTION 3 MISCELLANEOUS QUANTITIES)



9

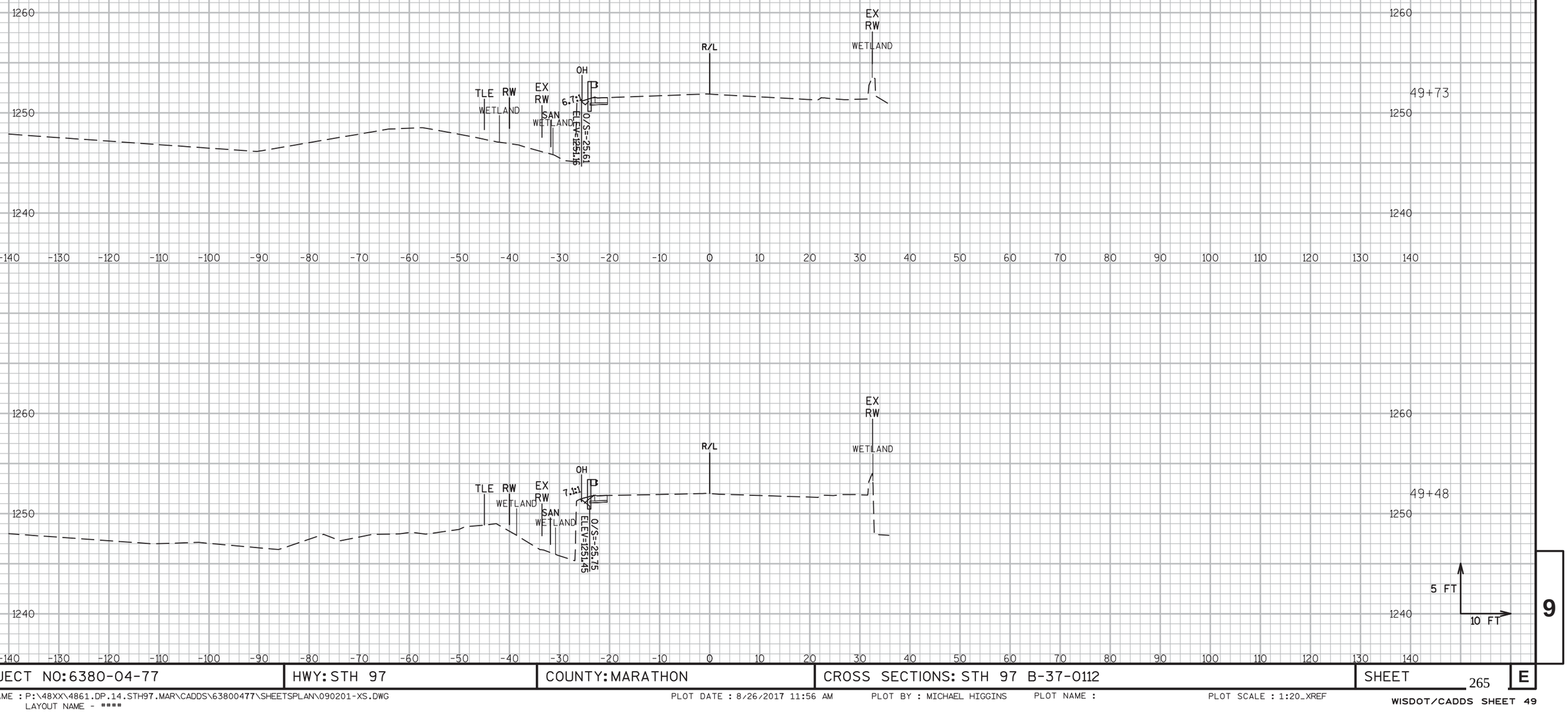
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0112	SHEET 264	E

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WISDOT/CADDS SHEET 49



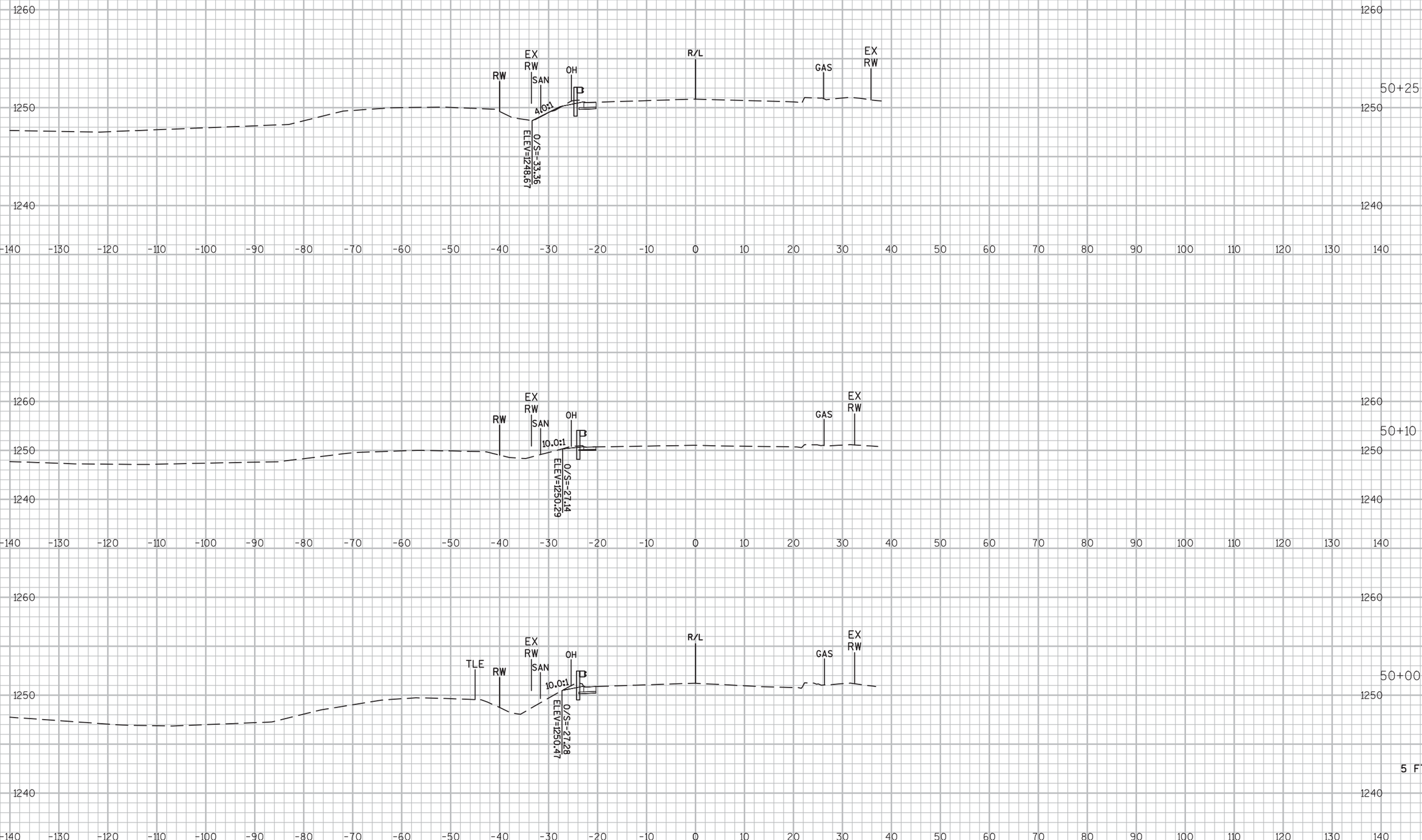
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0112	SHEET 265	E

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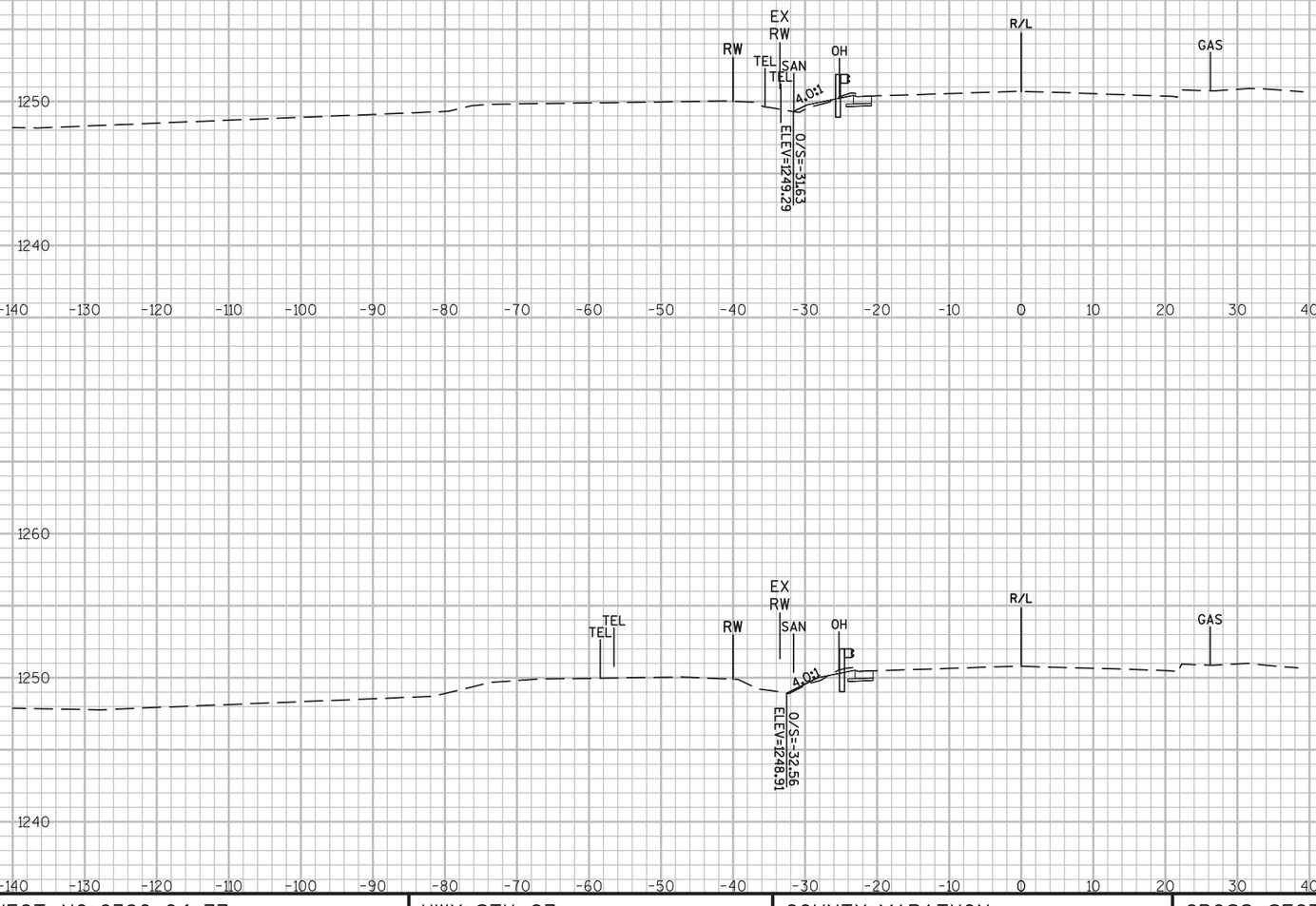
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LAYOUT NAME - ****

PLOT DATE : 8/26/2017 11:56 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:20_XREF



50+50

50+35

5 FT
10 FT

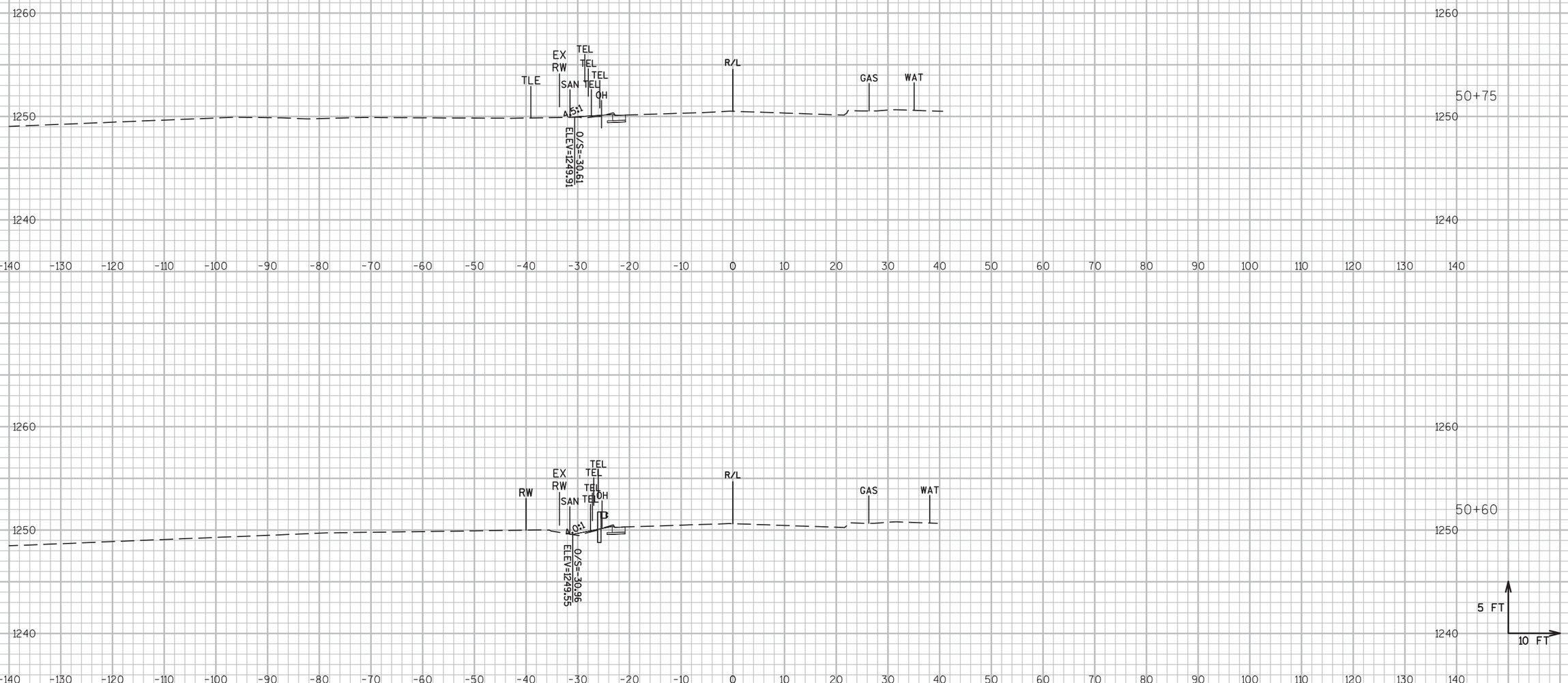
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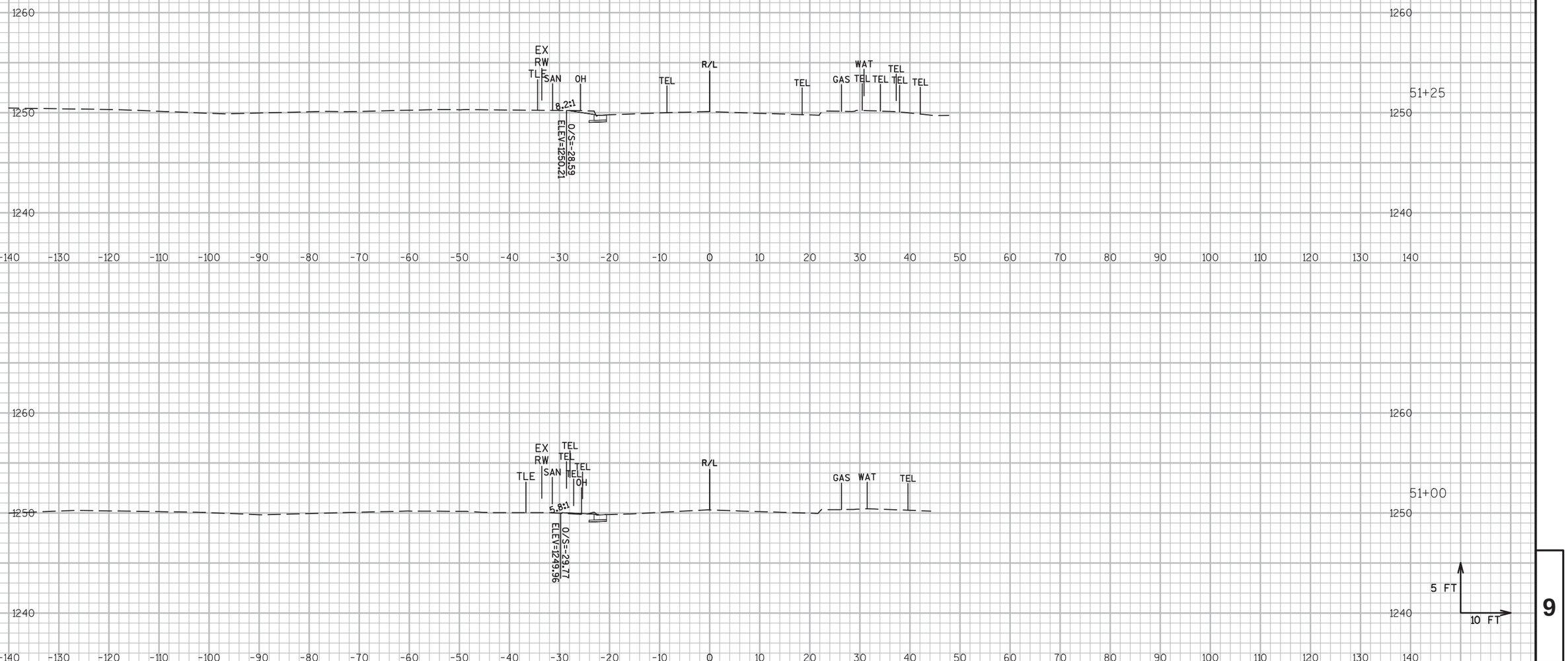
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WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0112	SHEET 269	E

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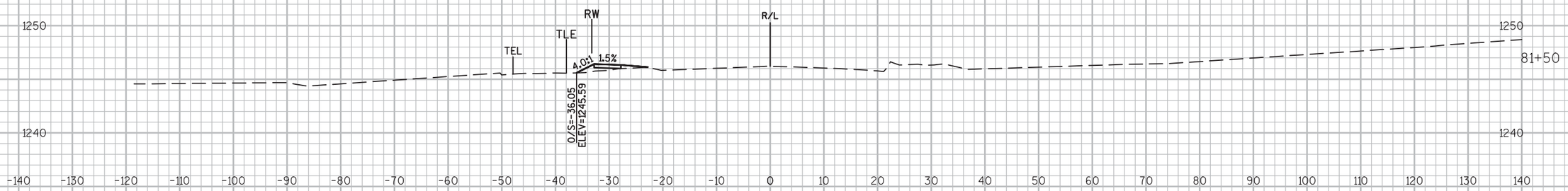
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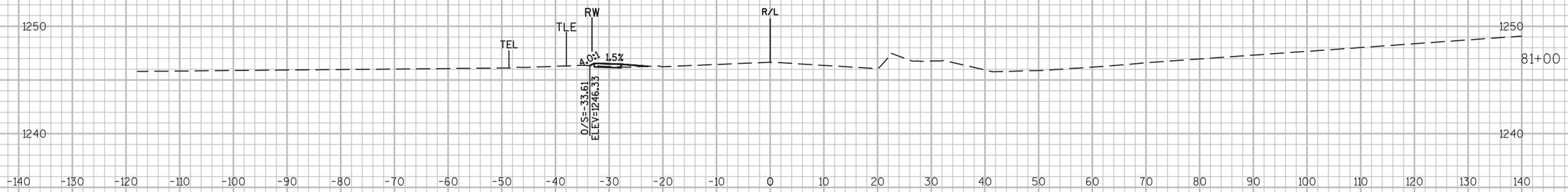
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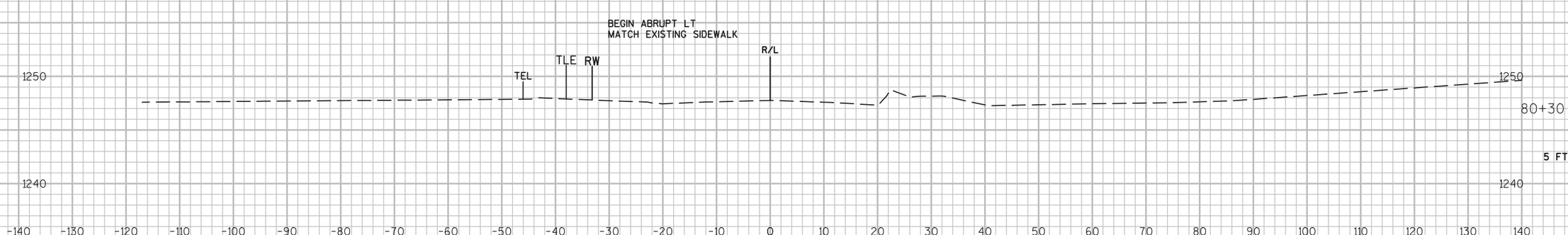
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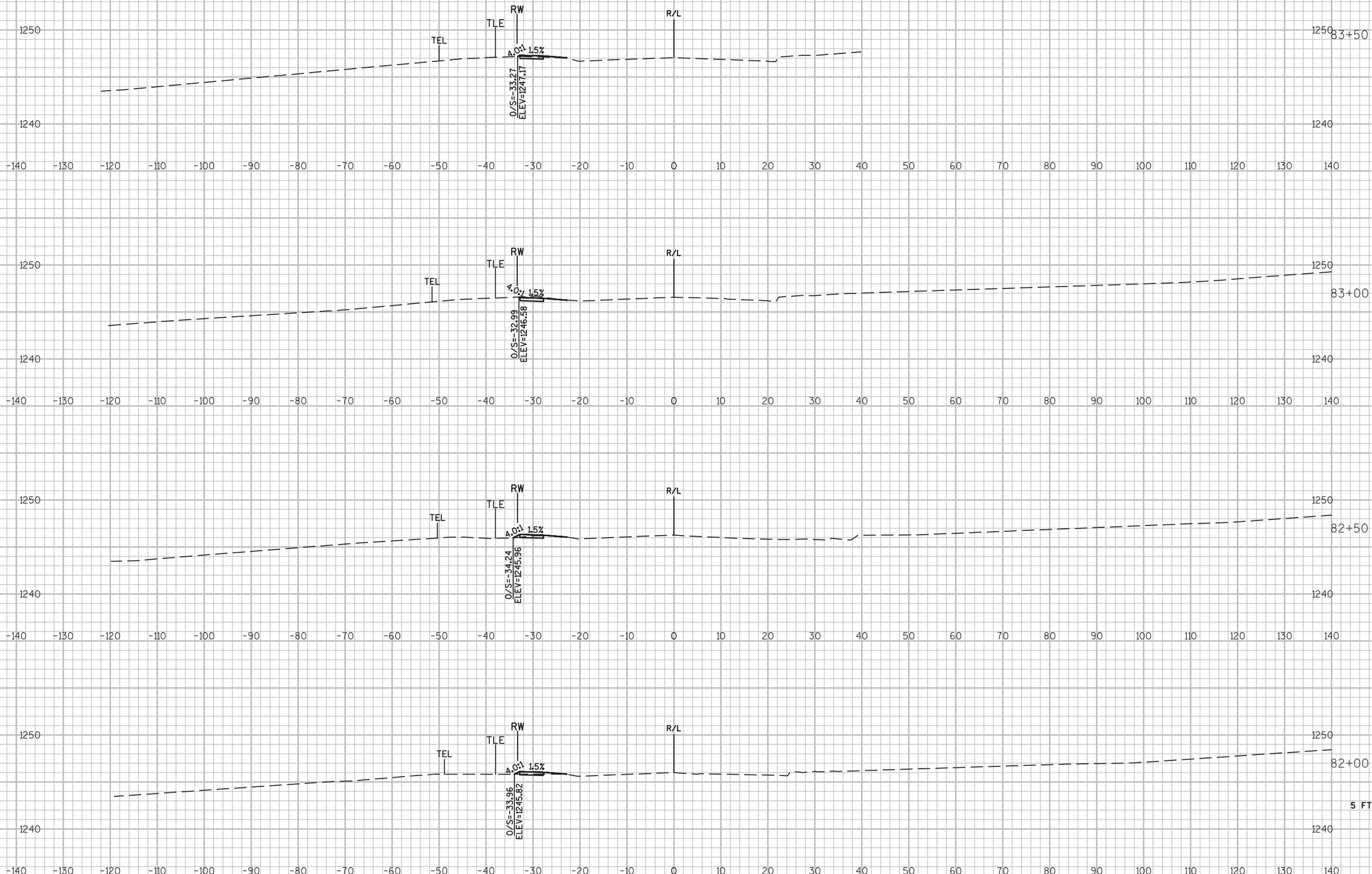
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LAYOUT NAME - 090204-XS01

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WISDOT/CADDS SHEET 49



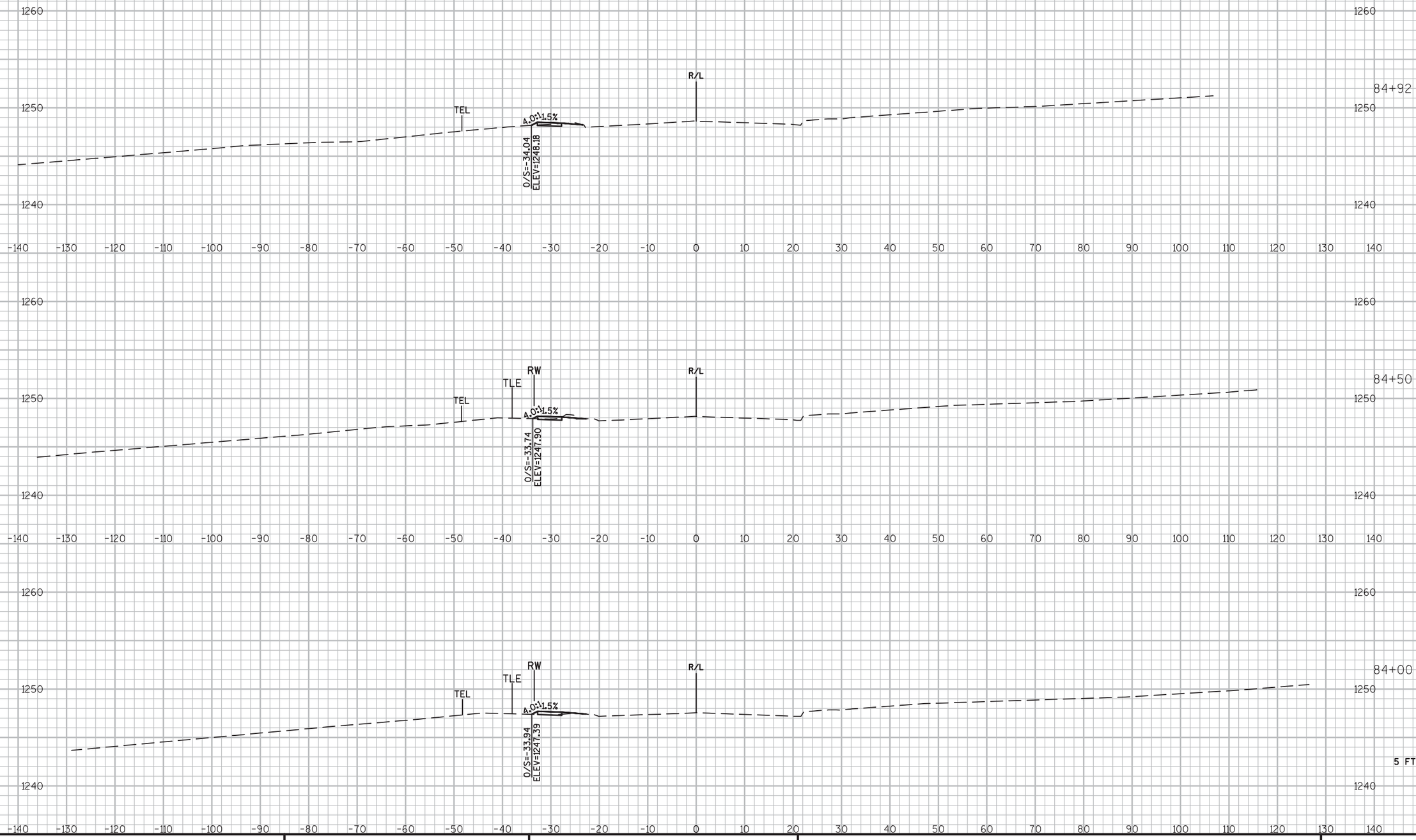
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 SIDEWALK	SHEET 272	E

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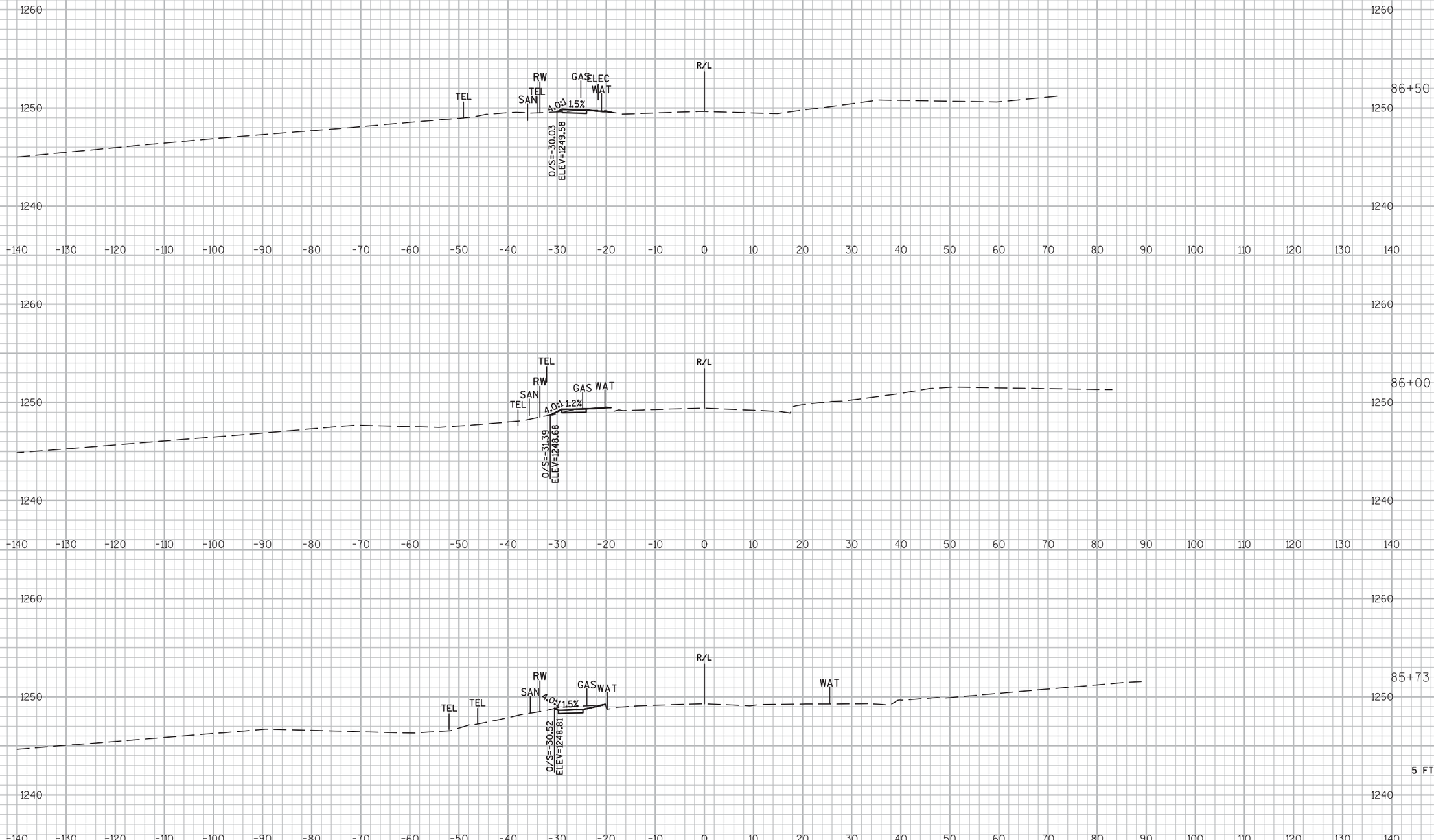
PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 SIDEWALK	SHEET 273	E

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WISDOT/CADDS SHEET 49



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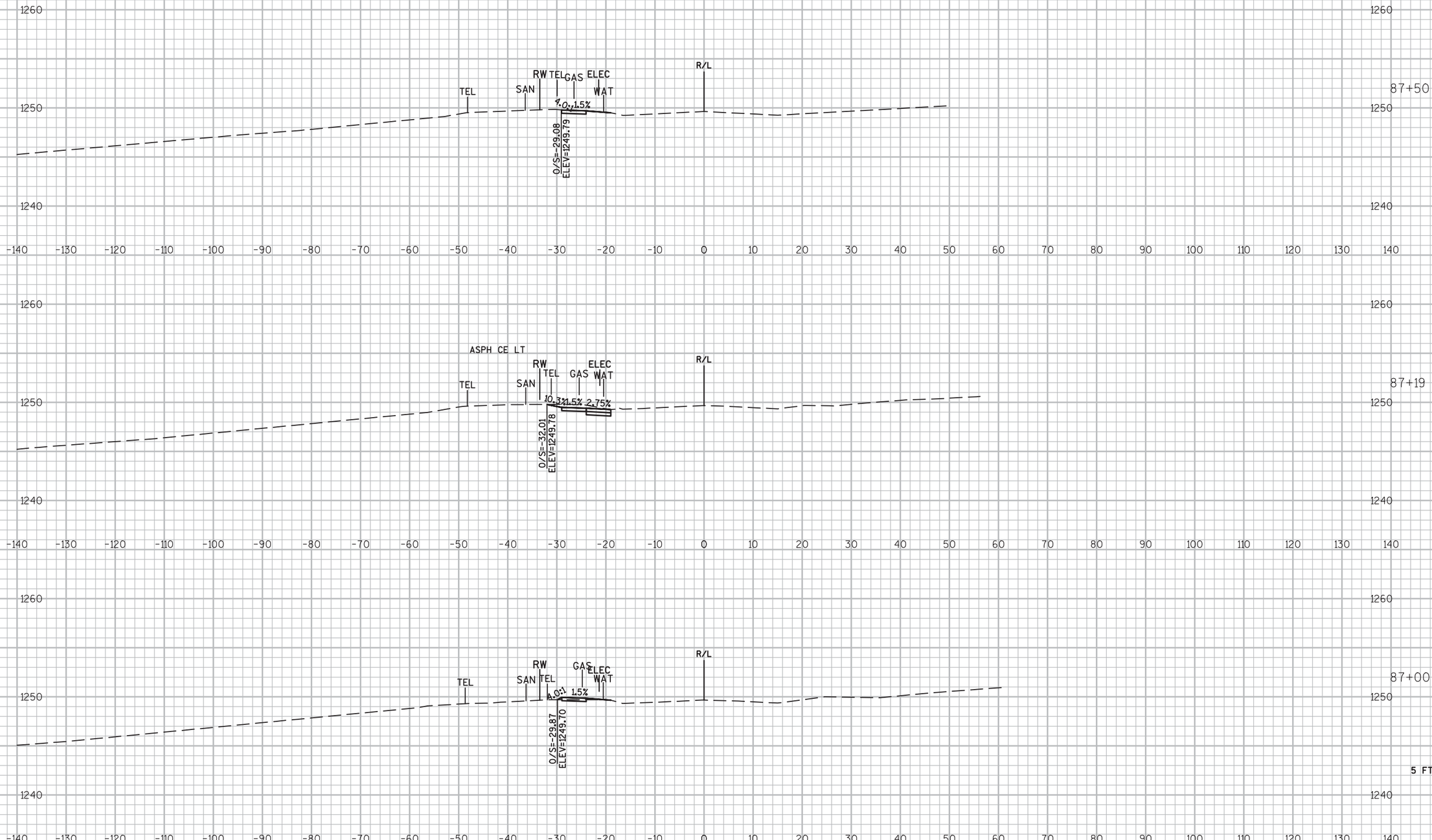
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WISDOT/CADDS SHEET 49



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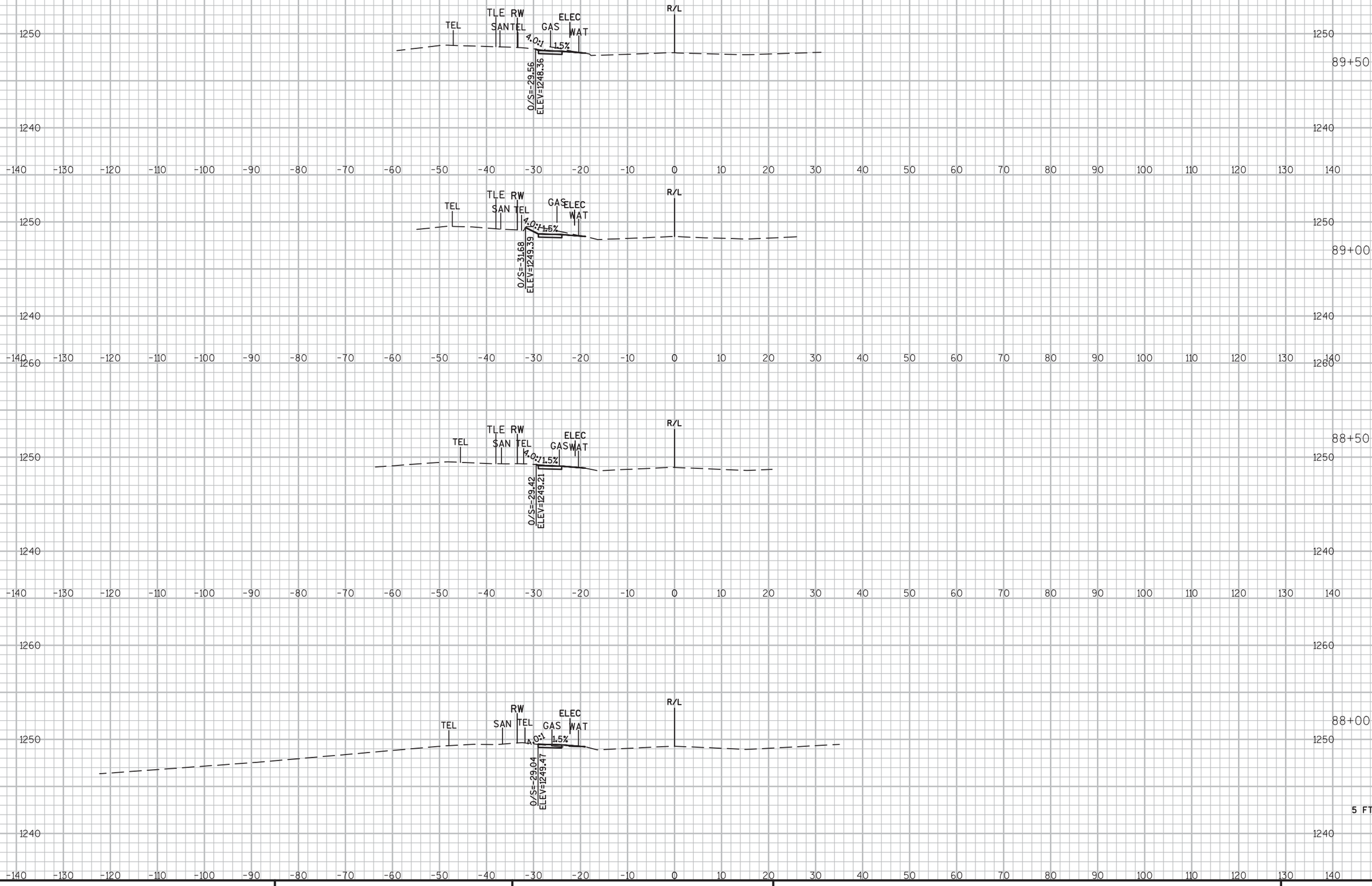
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WISDOT/CADDS SHEET 49



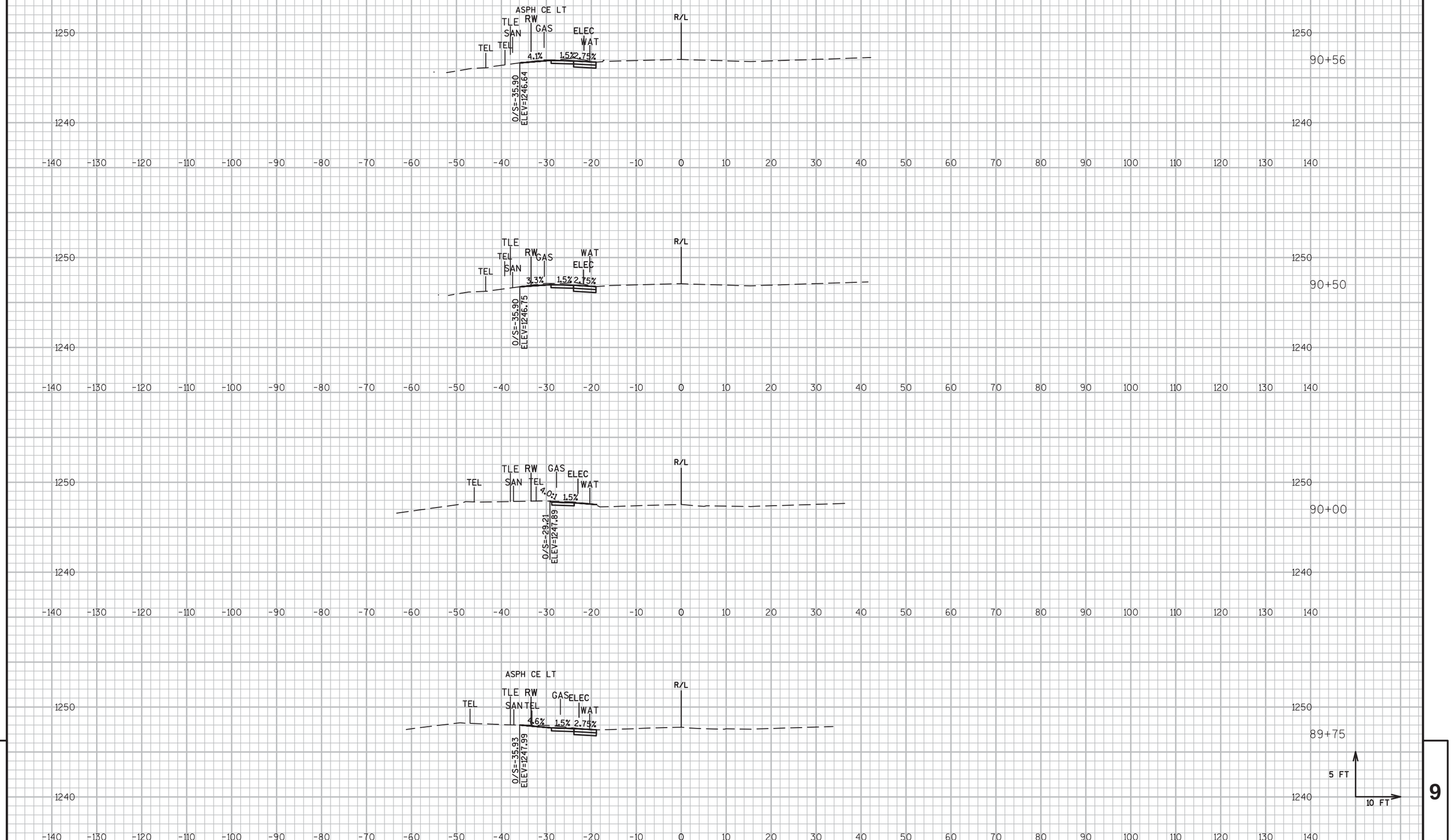
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 SIDEWALK	SHEET 276	E

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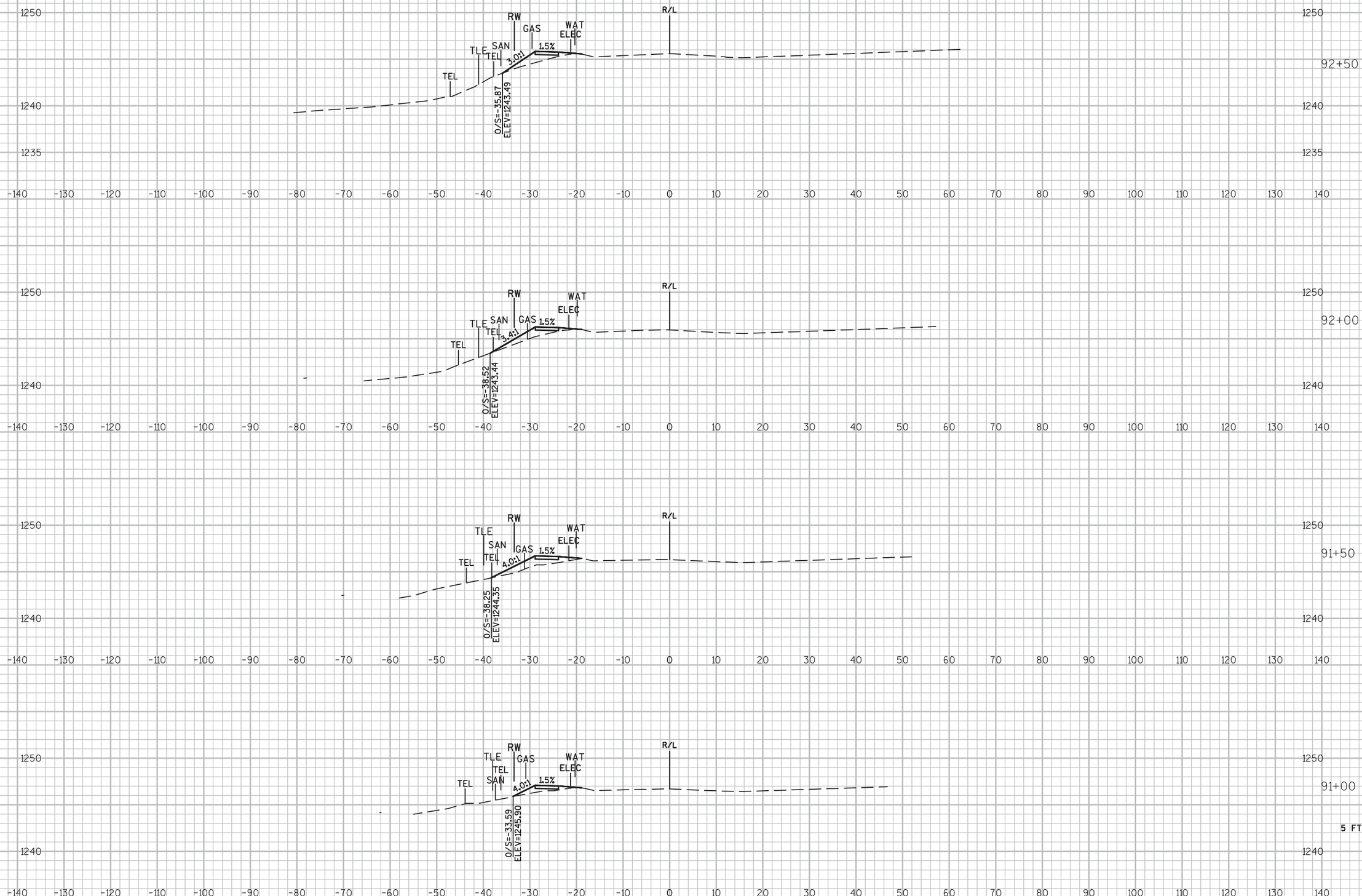
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 SIDEWALK	SHEET 277	E

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PLOT DATE : 3/12/2018 1:24 PM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1 IN:20 FT_10

WISDOT/CADDS SHEET 49



9

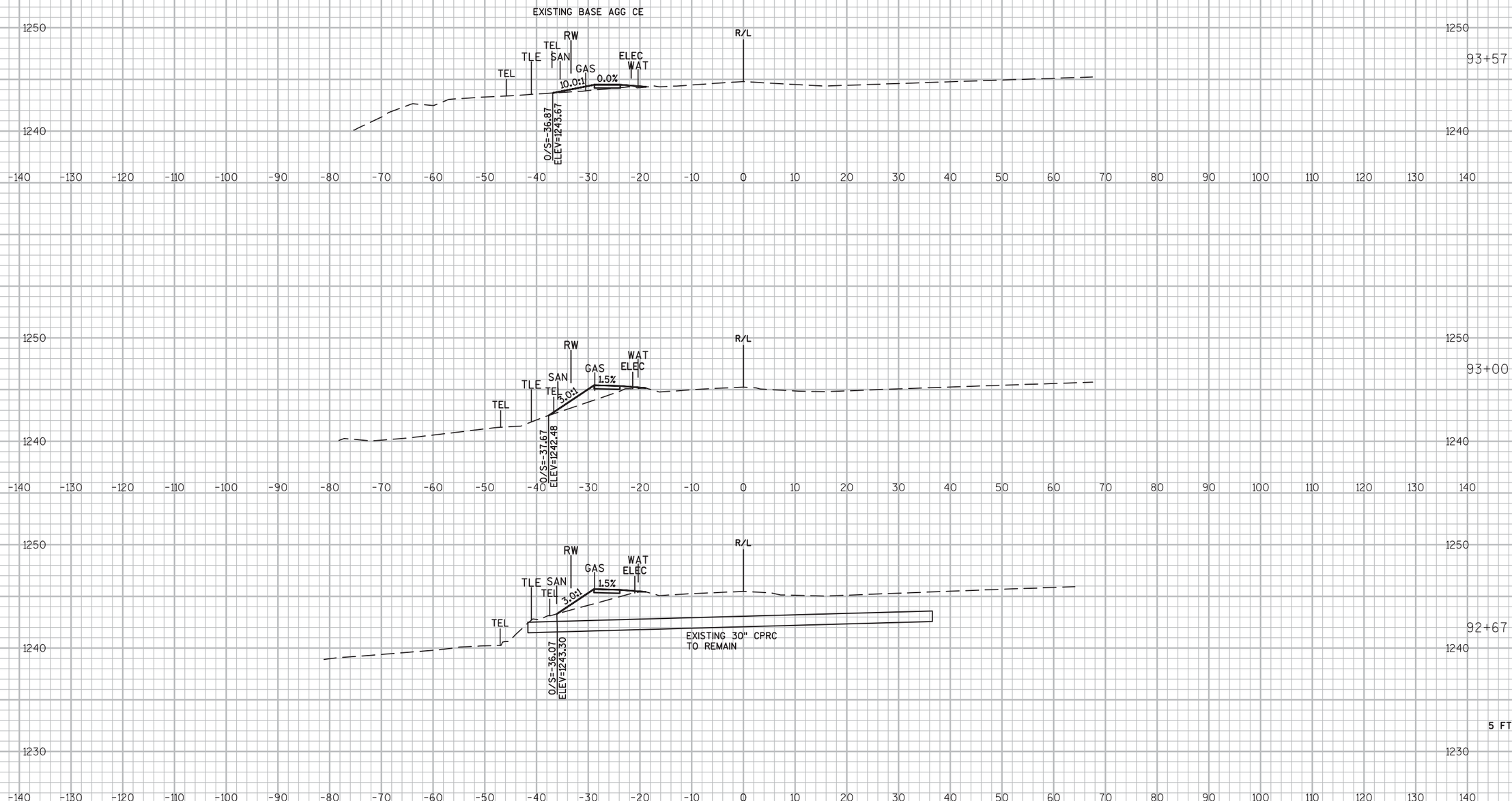
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 SIDEWALK	SHEET 278	E

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WISDOT/CADDS SHEET 49



9

9

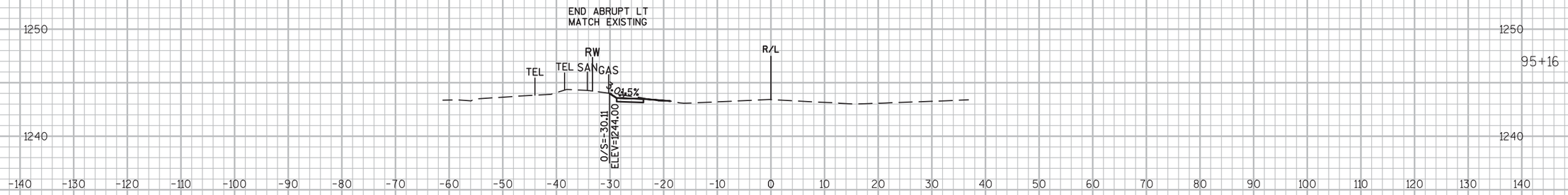
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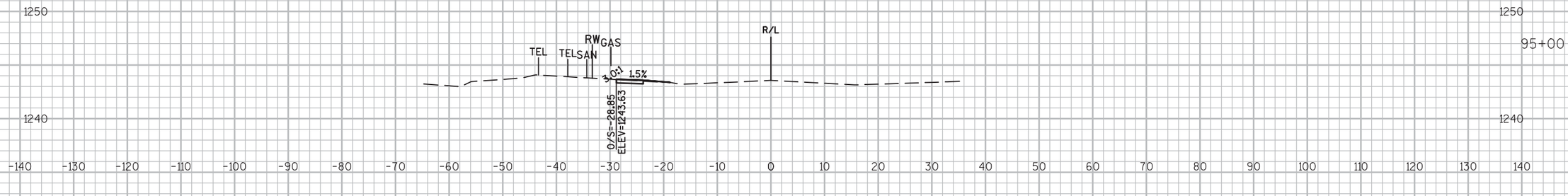
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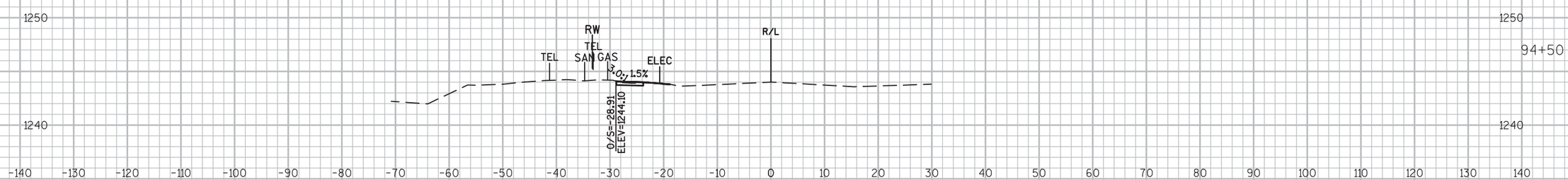
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WISDOT/CADDS SHEET 49

END ABRUPT LT
MATCH EXISTING









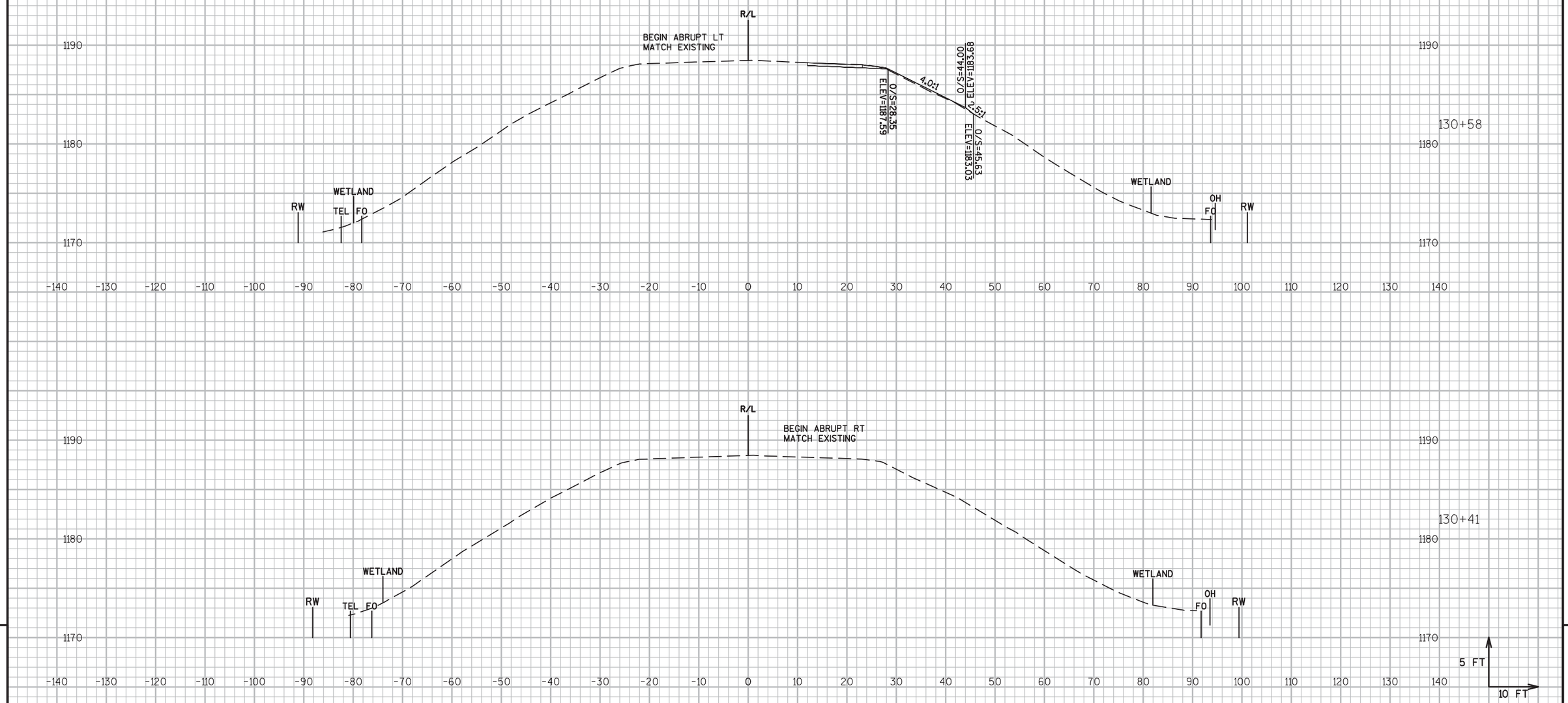
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 SIDEWALK	SHEET 280	E

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PLOT DATE : 3/12/2018 1:24 PM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1 IN:20 FT_10

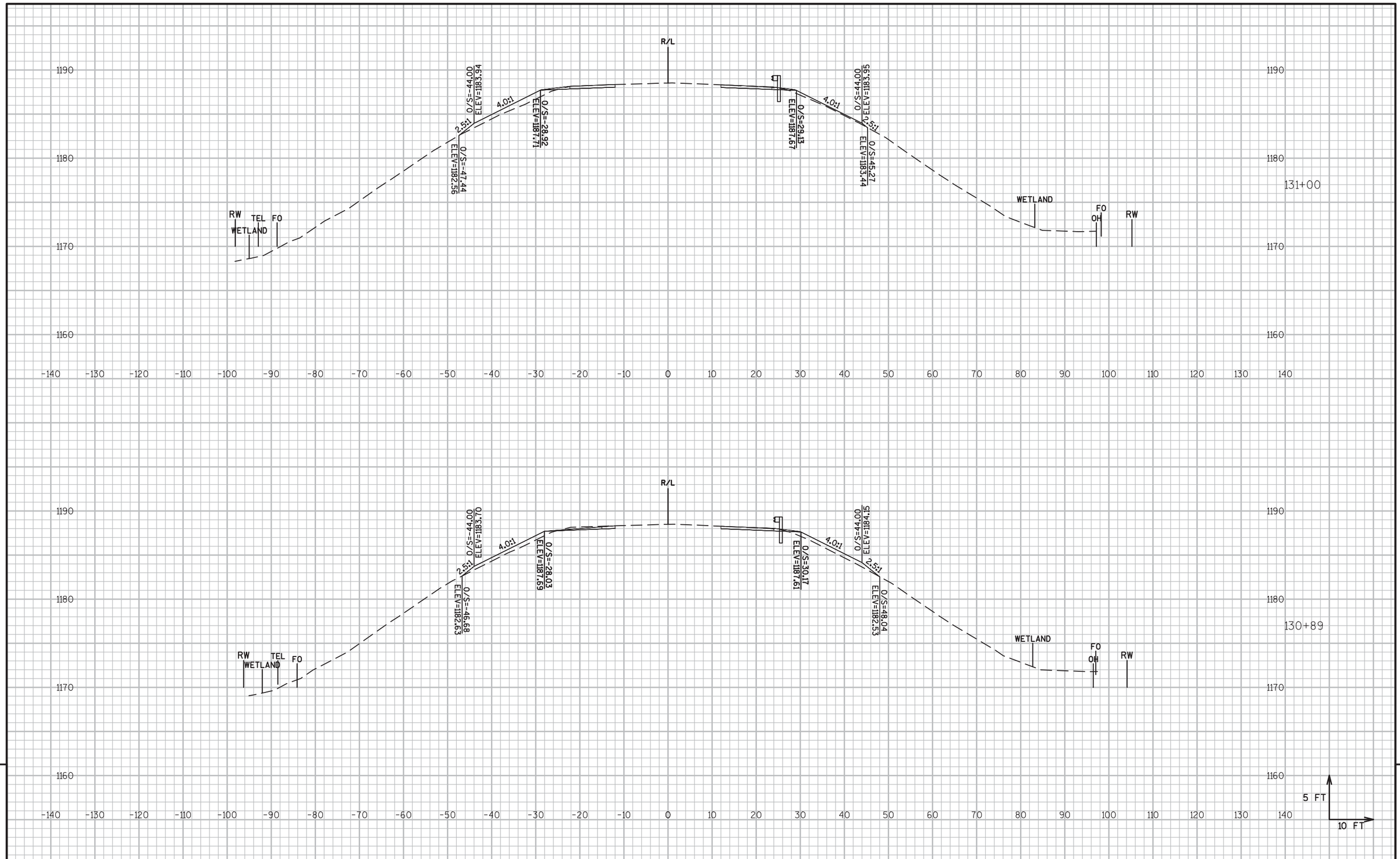


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 281	E

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LAYOUT NAME - ****

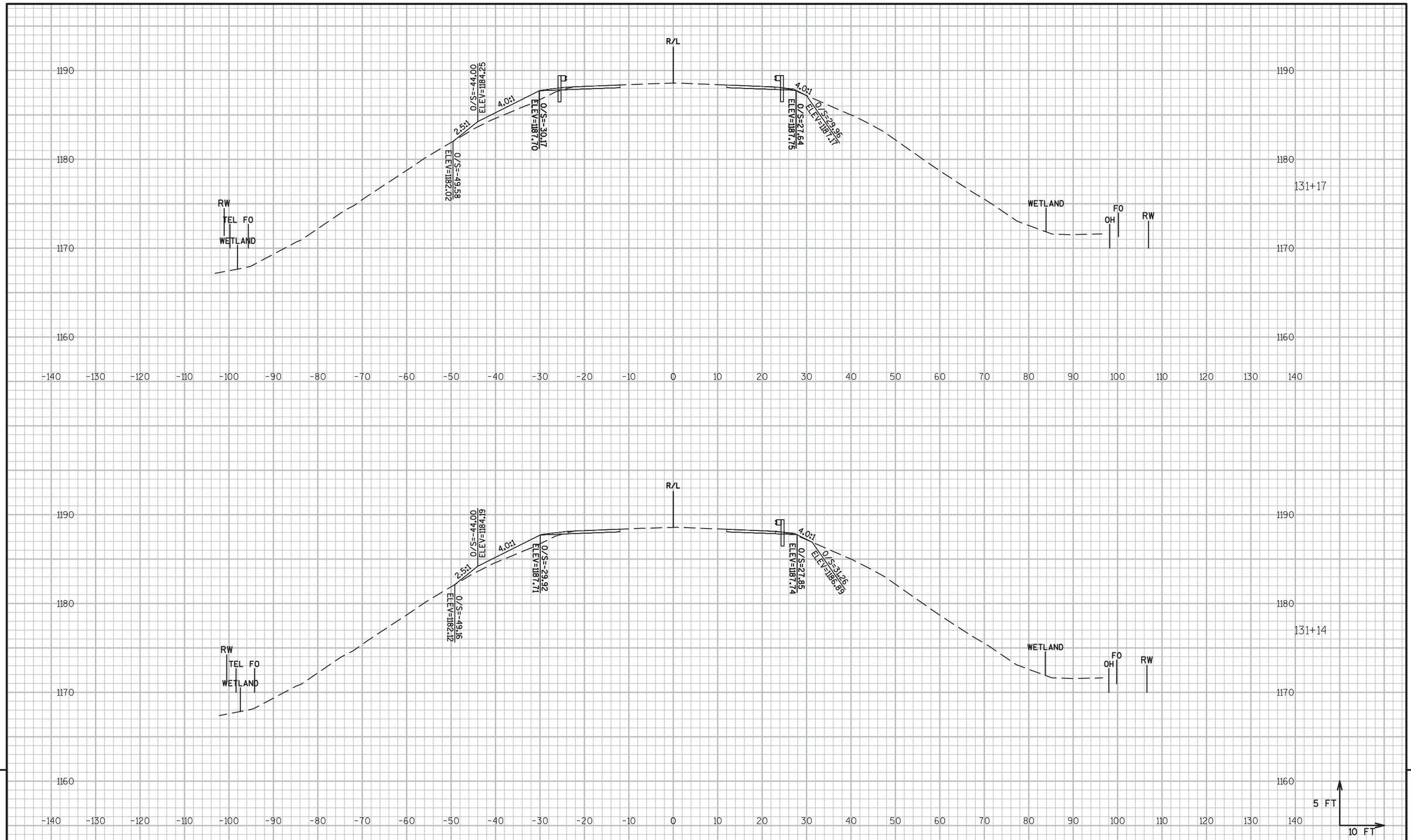
PLOT DATE : 8/26/2017 11:58 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 282	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - ****

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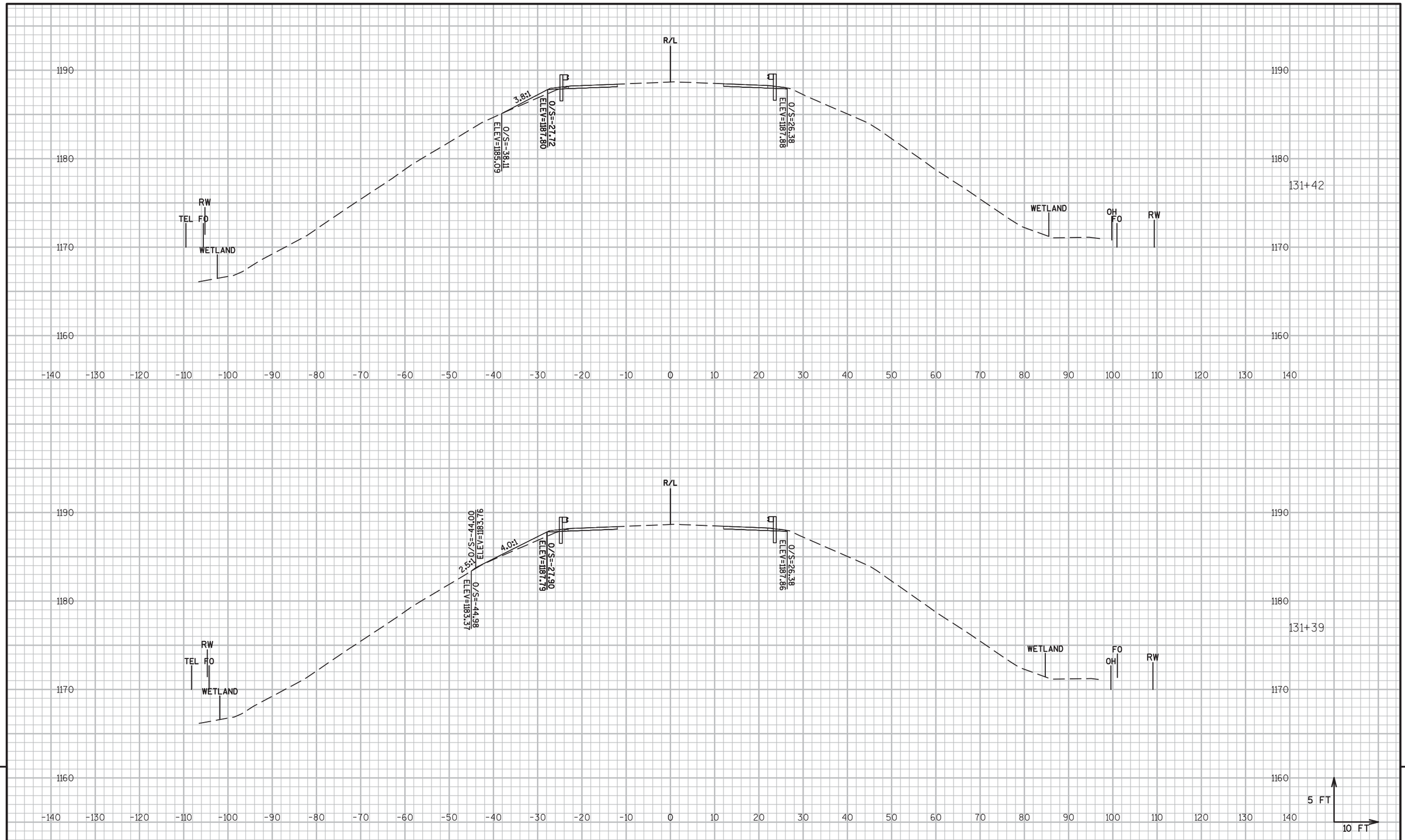


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 283	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - ****

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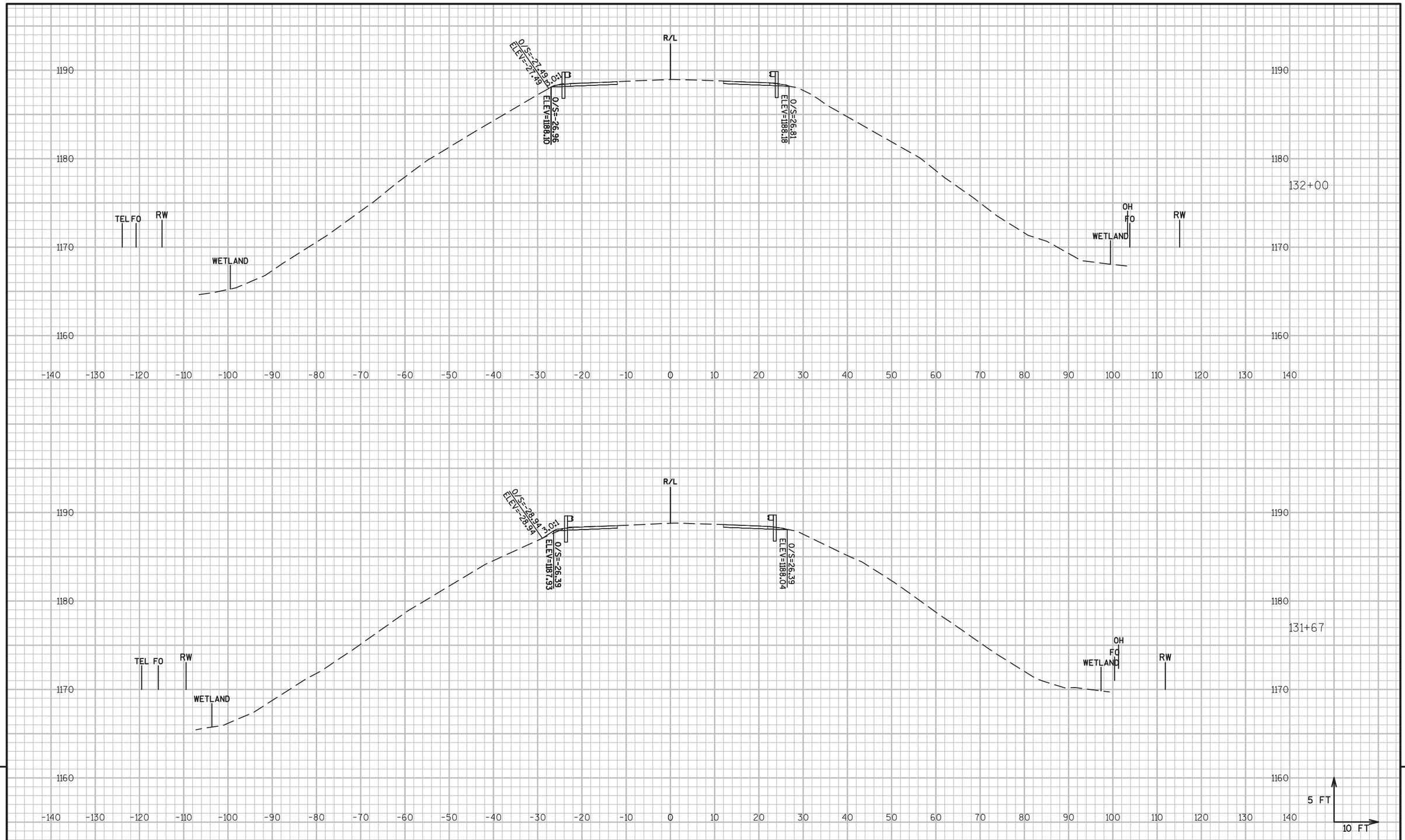


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 284	E

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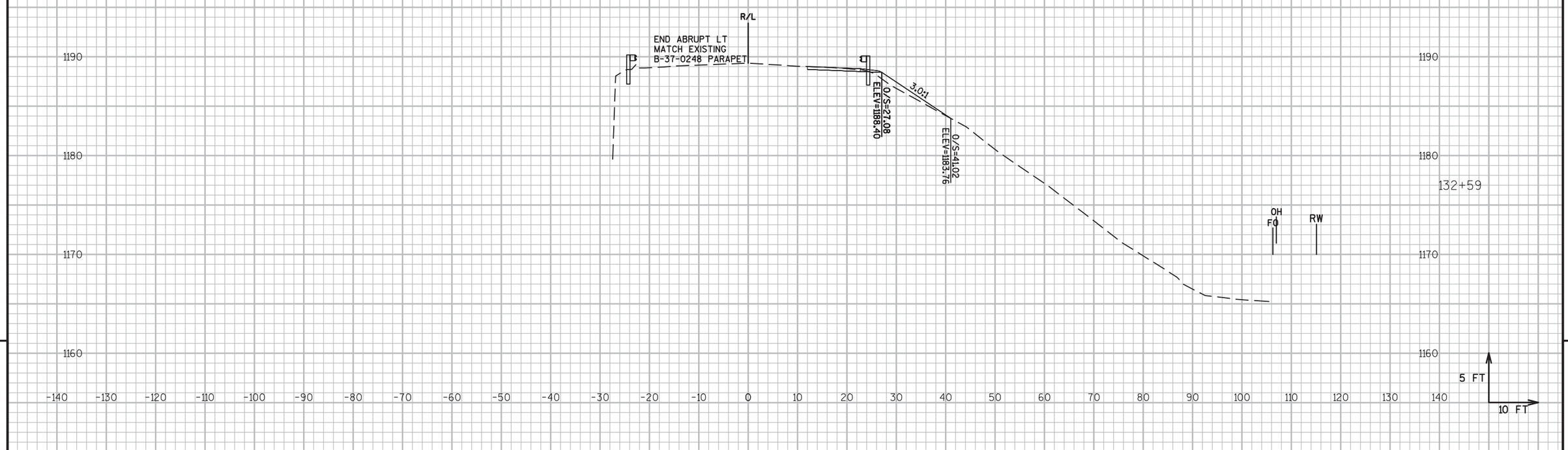


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 285	E

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LAYOUT NAME - ****

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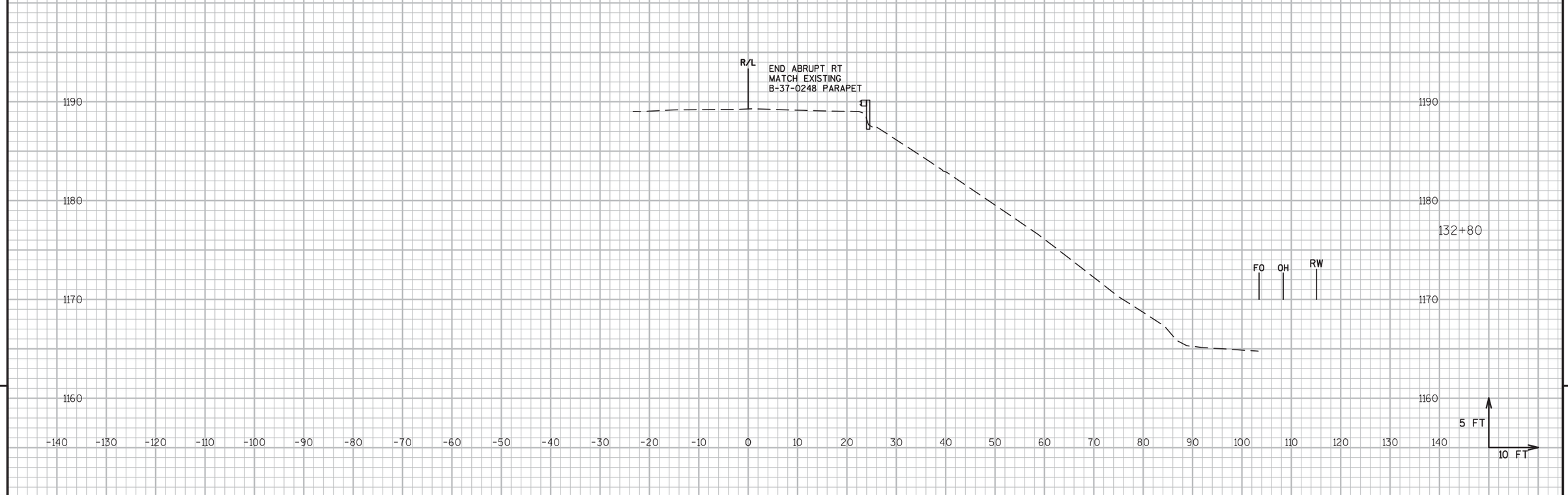


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 286	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - ****

PLOT DATE : 8/26/2017 11:58 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:20_XREF

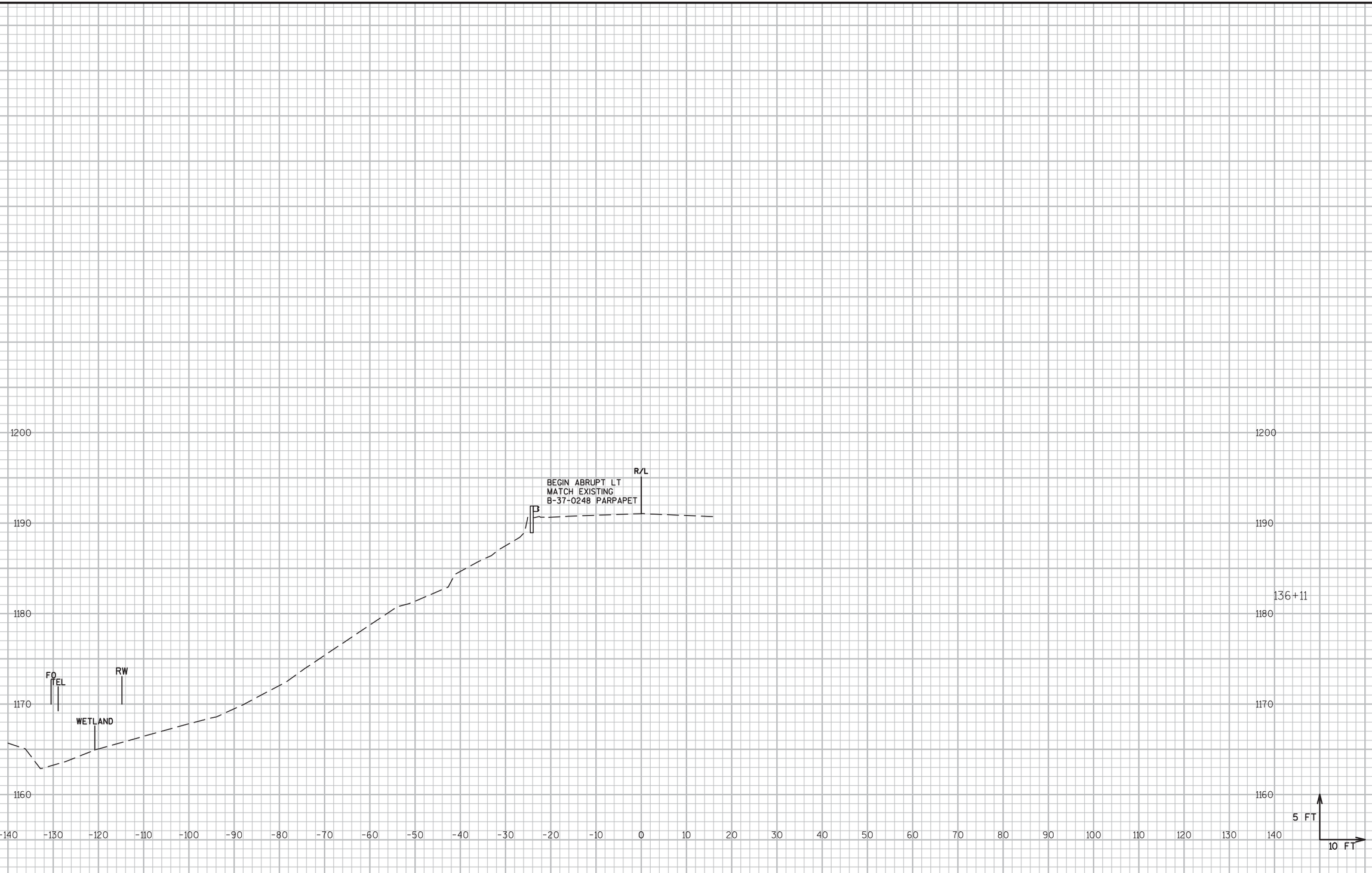


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 287	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - ****

PLOT DATE : 8/26/2017 11:58 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:20_XREF



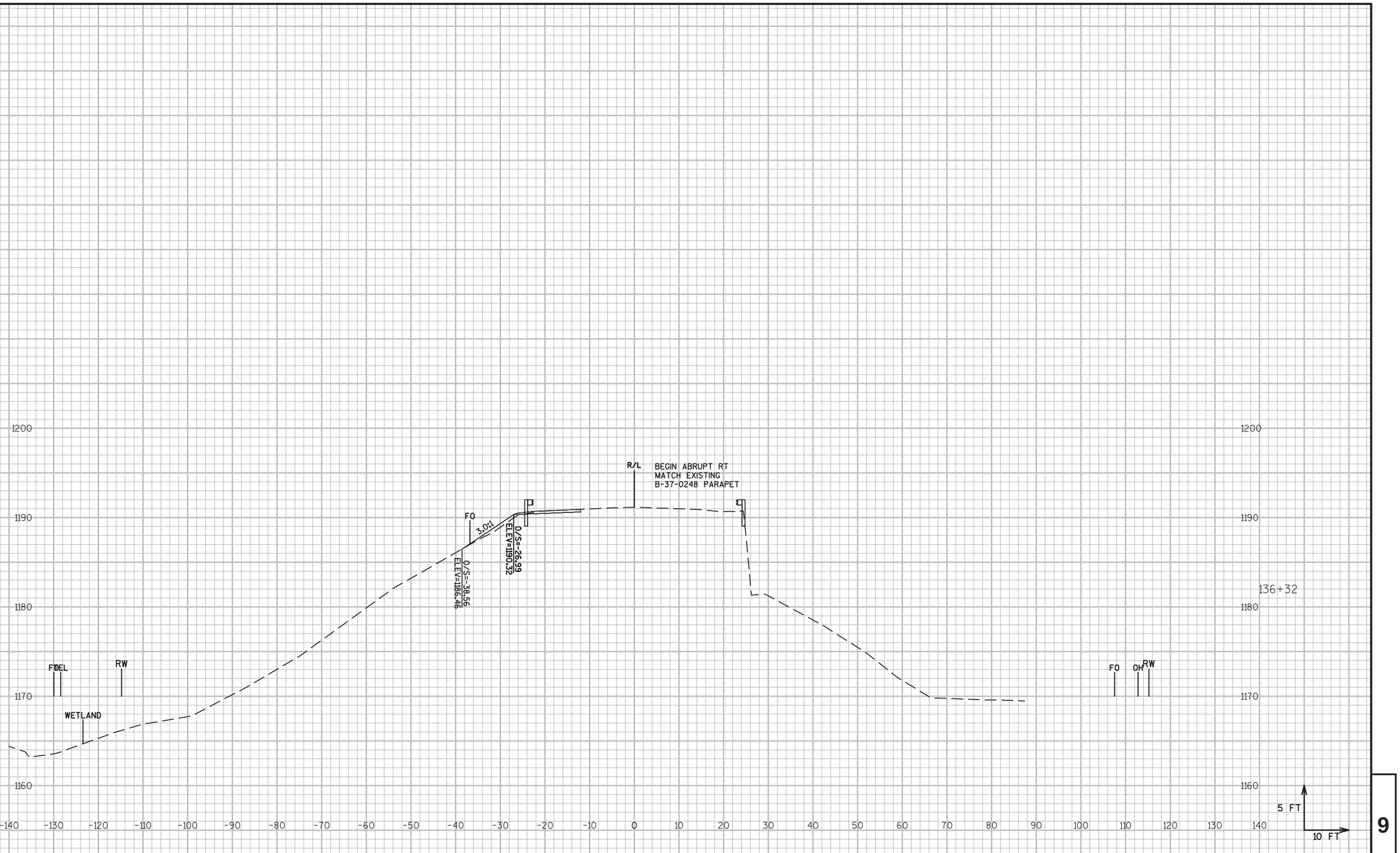
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 288	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - ****

PLOT DATE : 8/26/2017 11:58 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

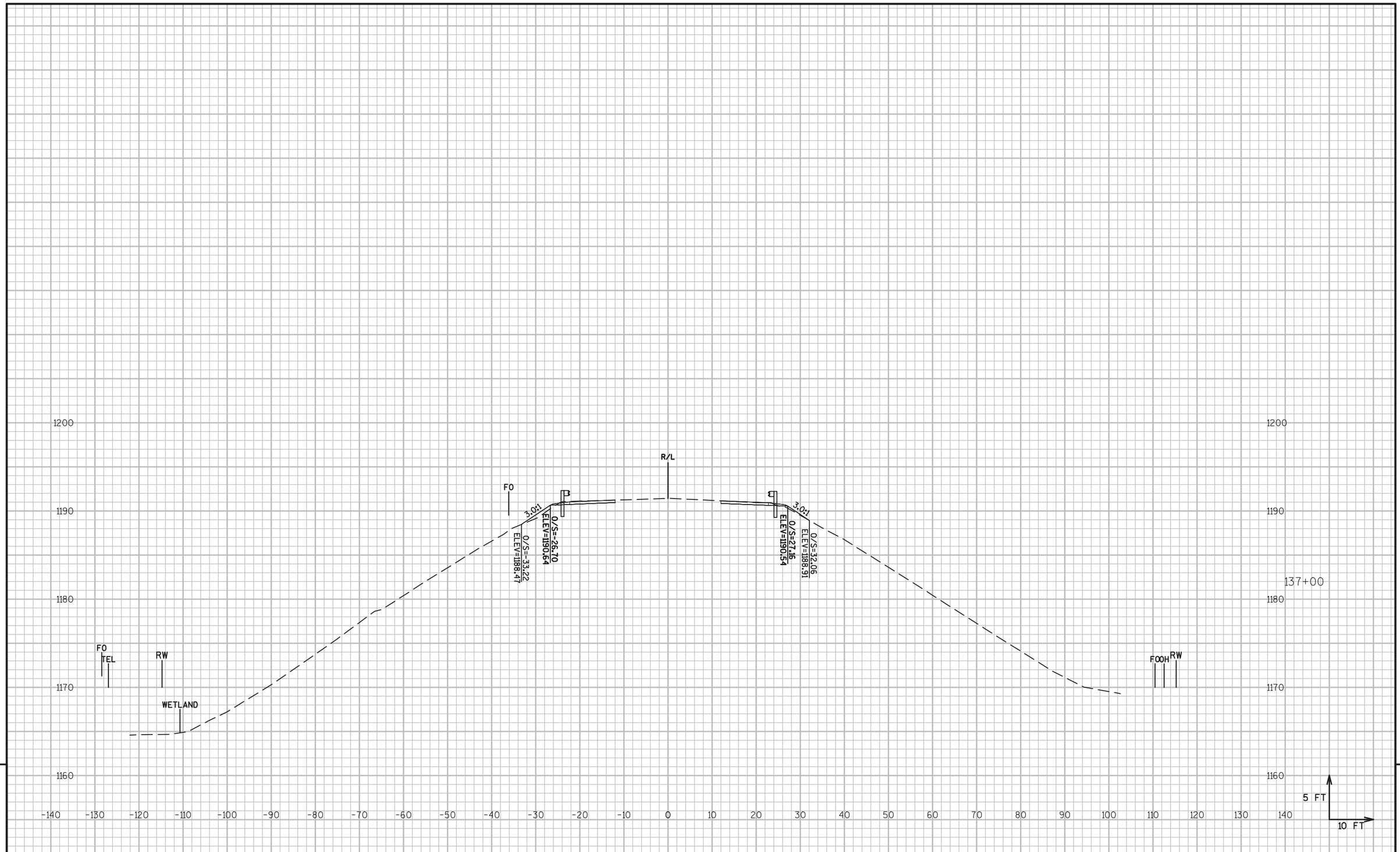


PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 289	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
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WISDOT/CADDS SHEET 49

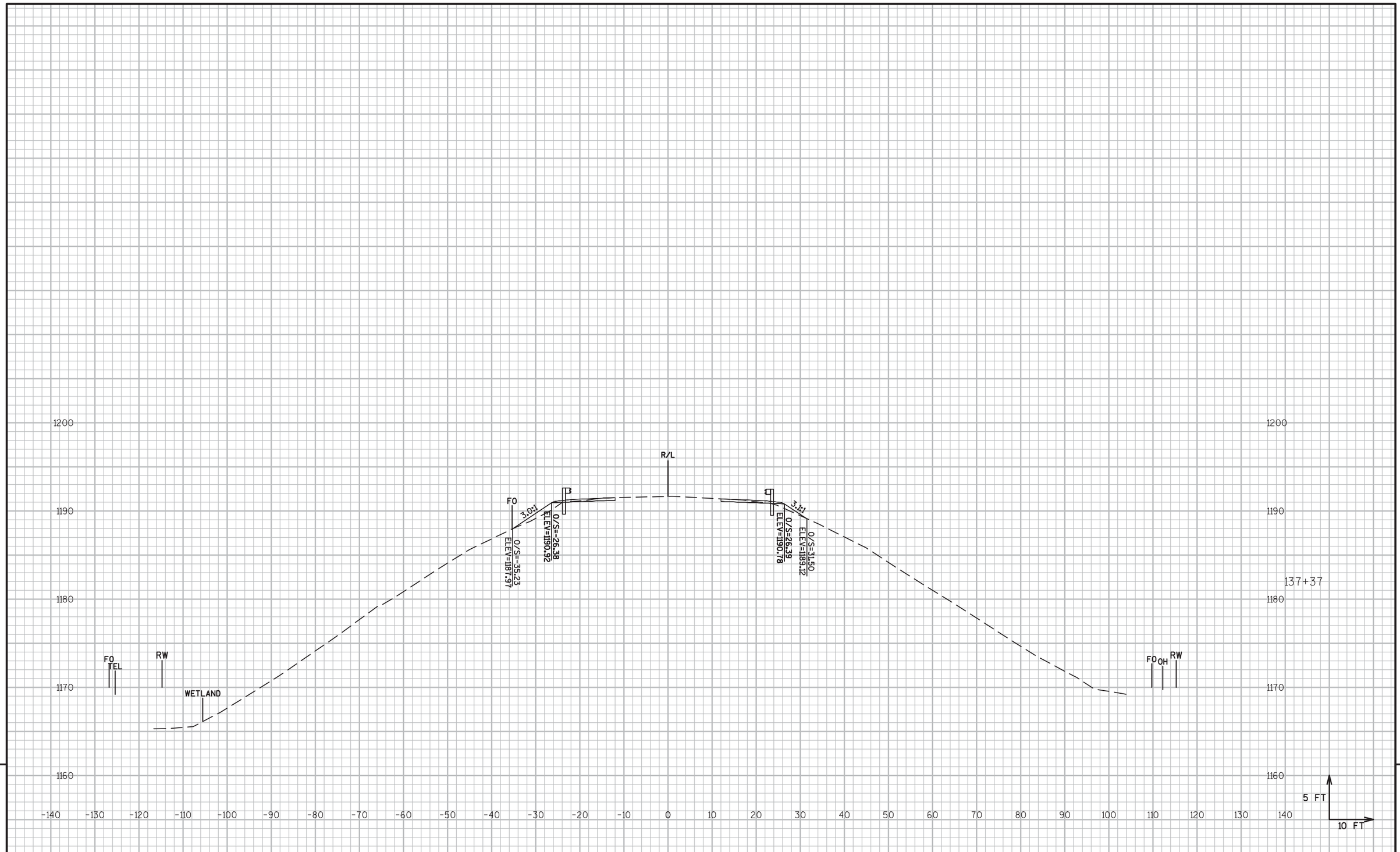


PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 290	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - ****

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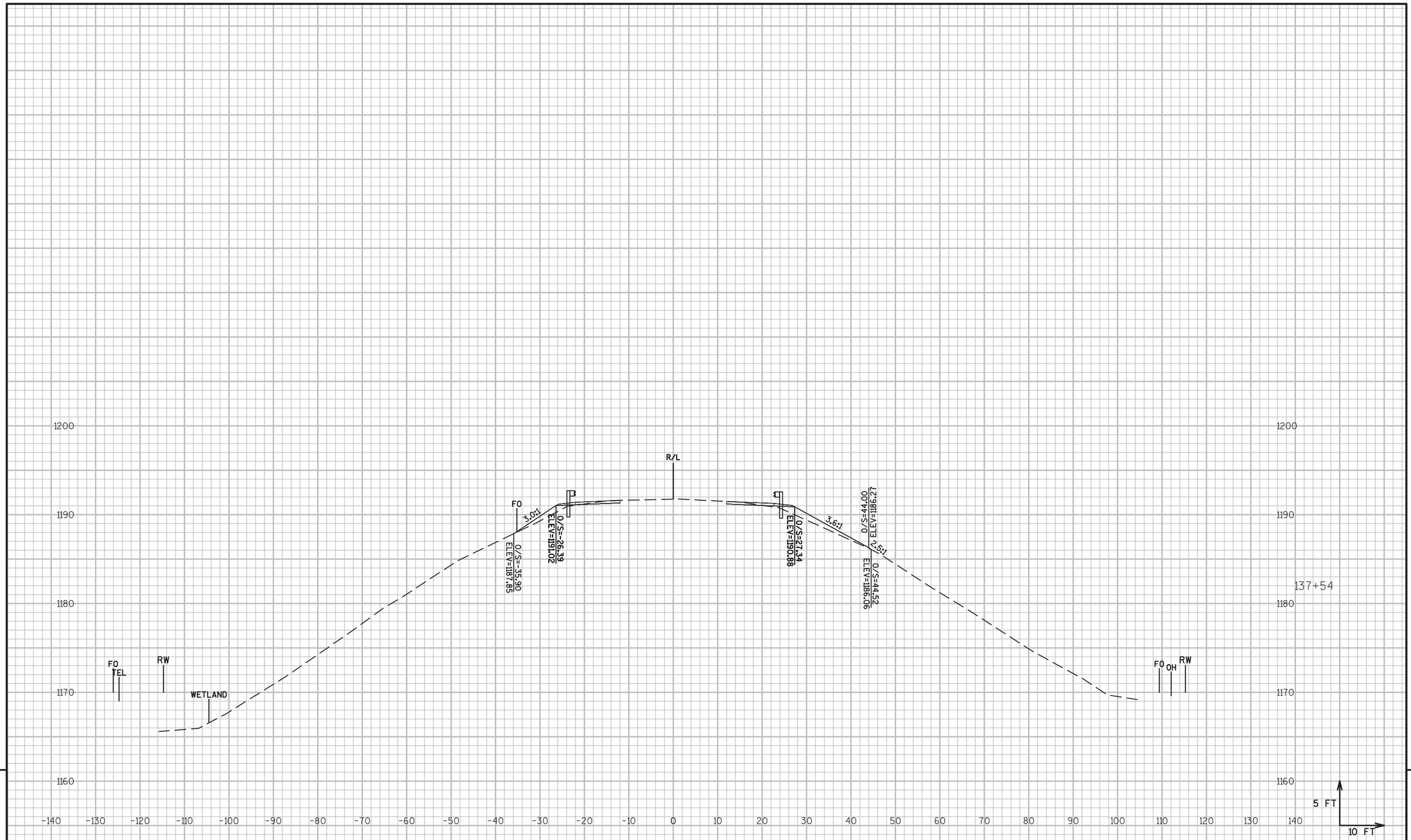
WISDOT/CADDS SHEET 49



PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 291	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - ****

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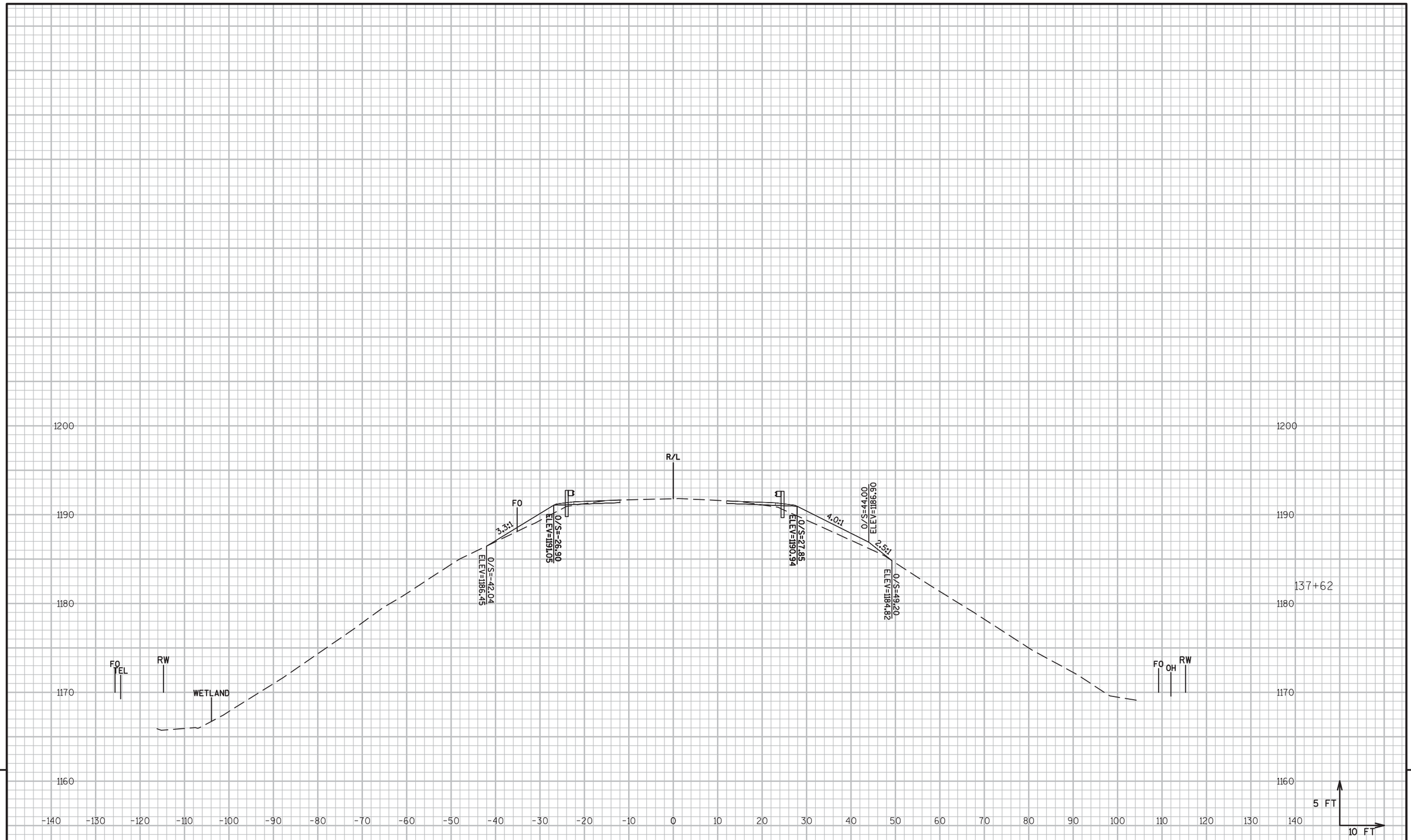


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 292	E

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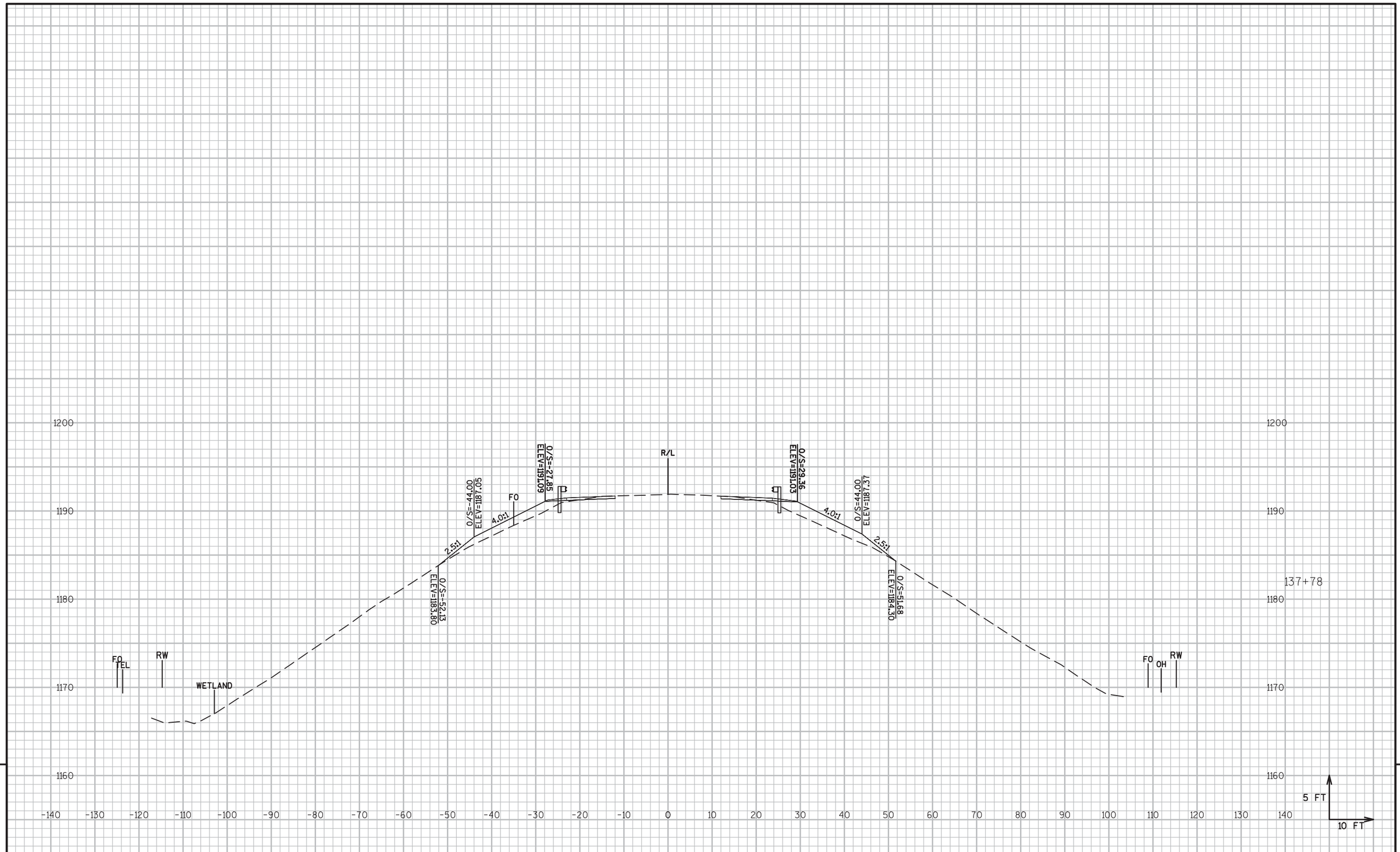


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 293	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - ****

PLOT DATE : 8/26/2017 11:59 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:20_XREF

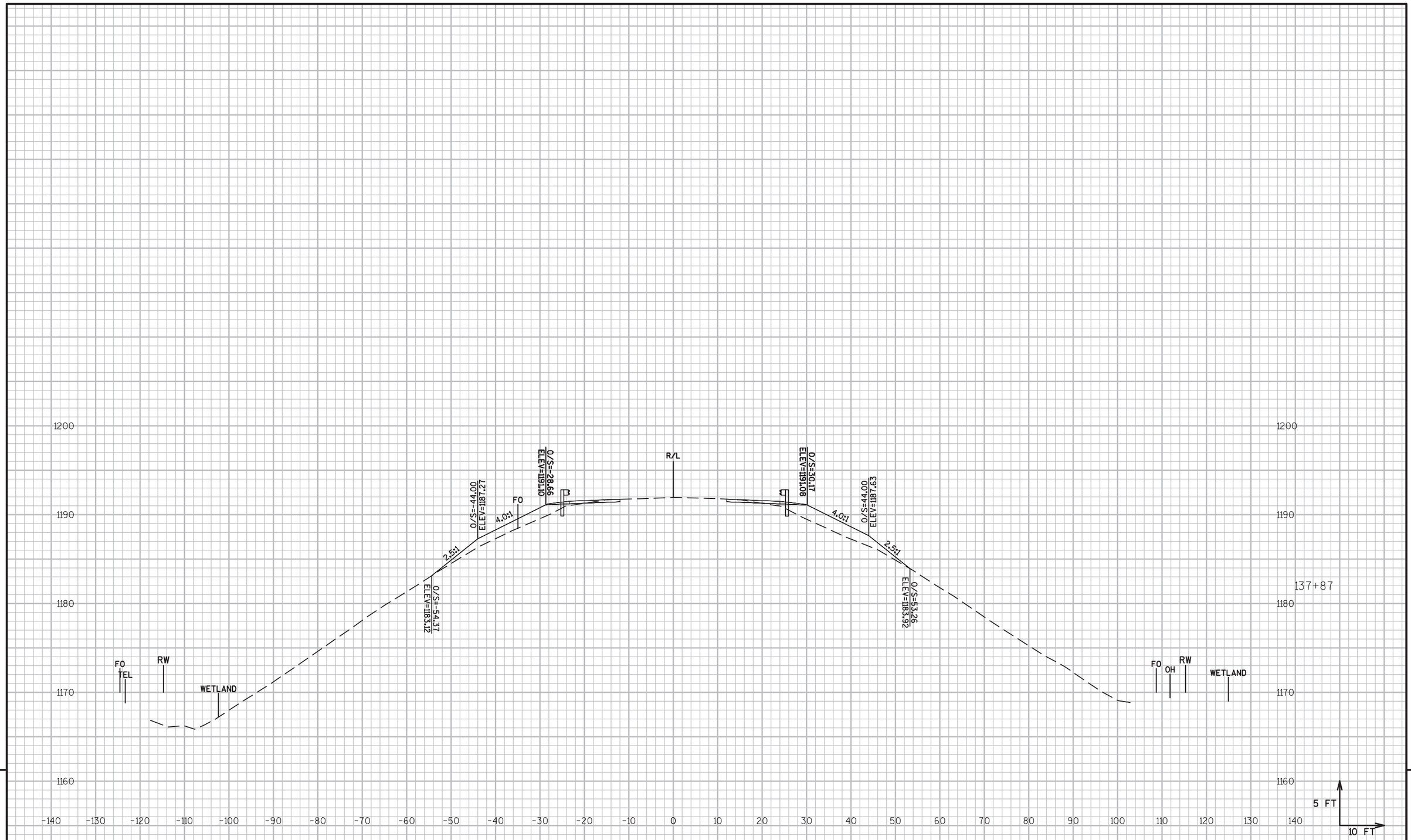


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 294	E

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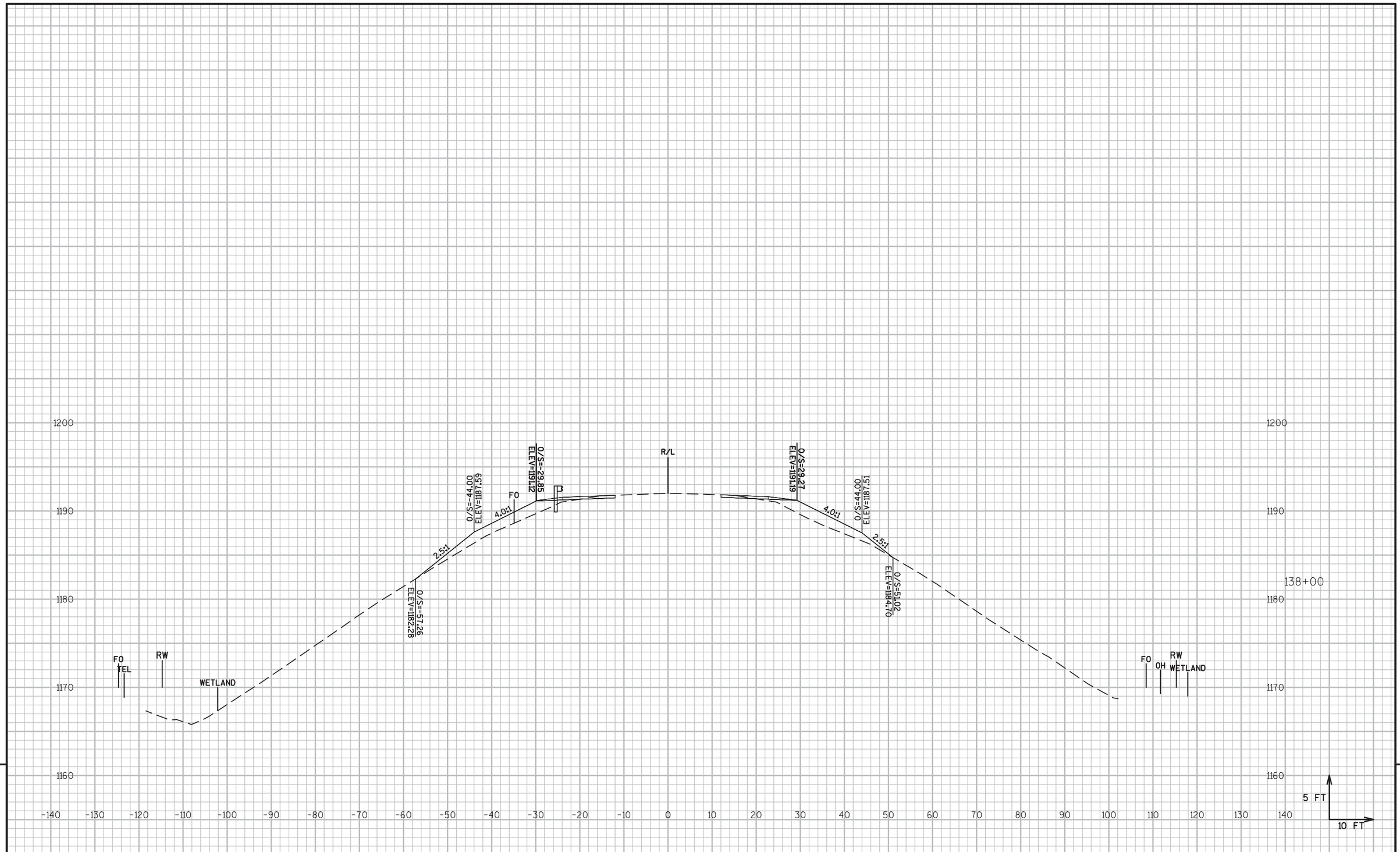
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 295	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
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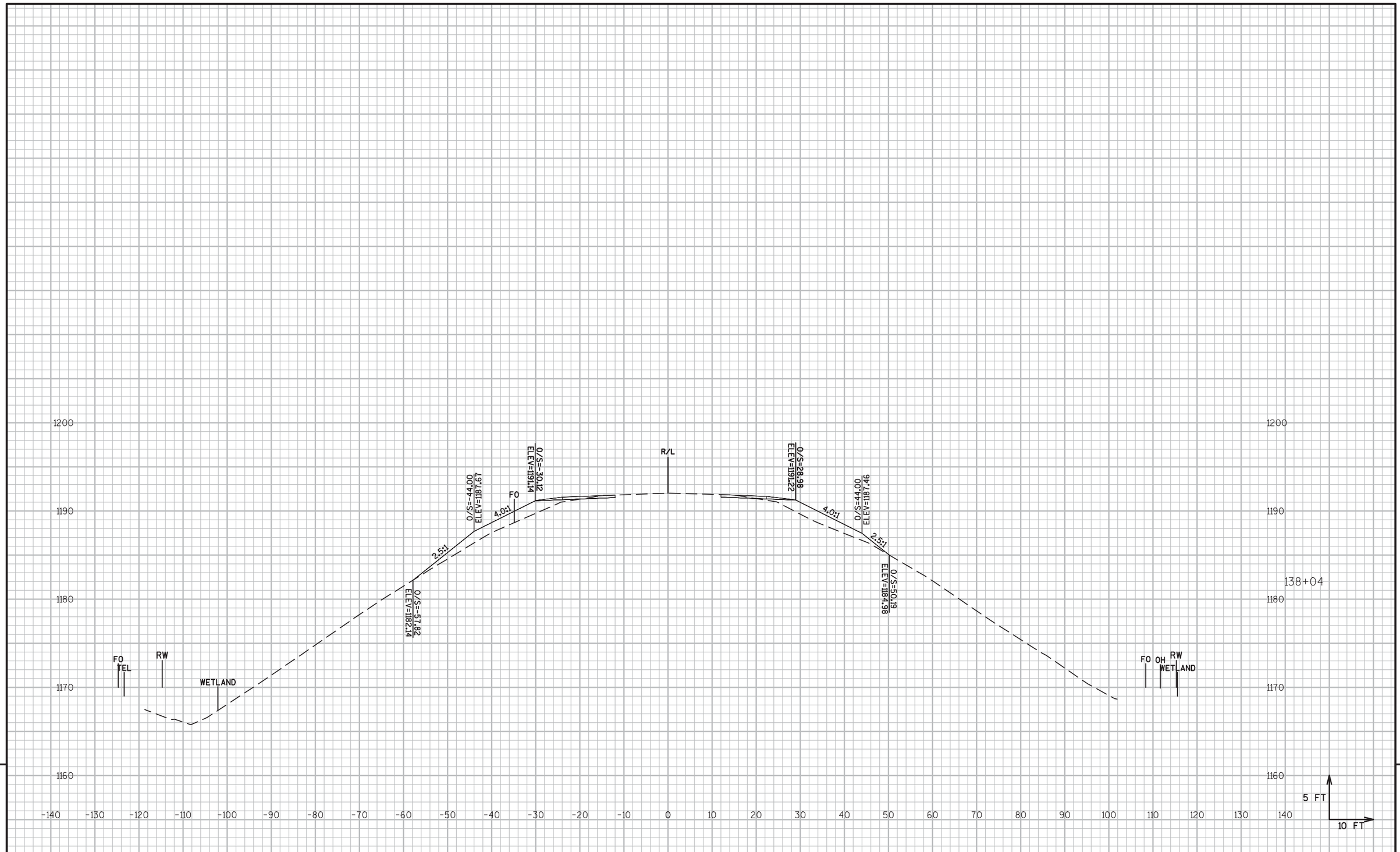


PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 296	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - ****

PLOT DATE : 8/26/2017 11:59 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



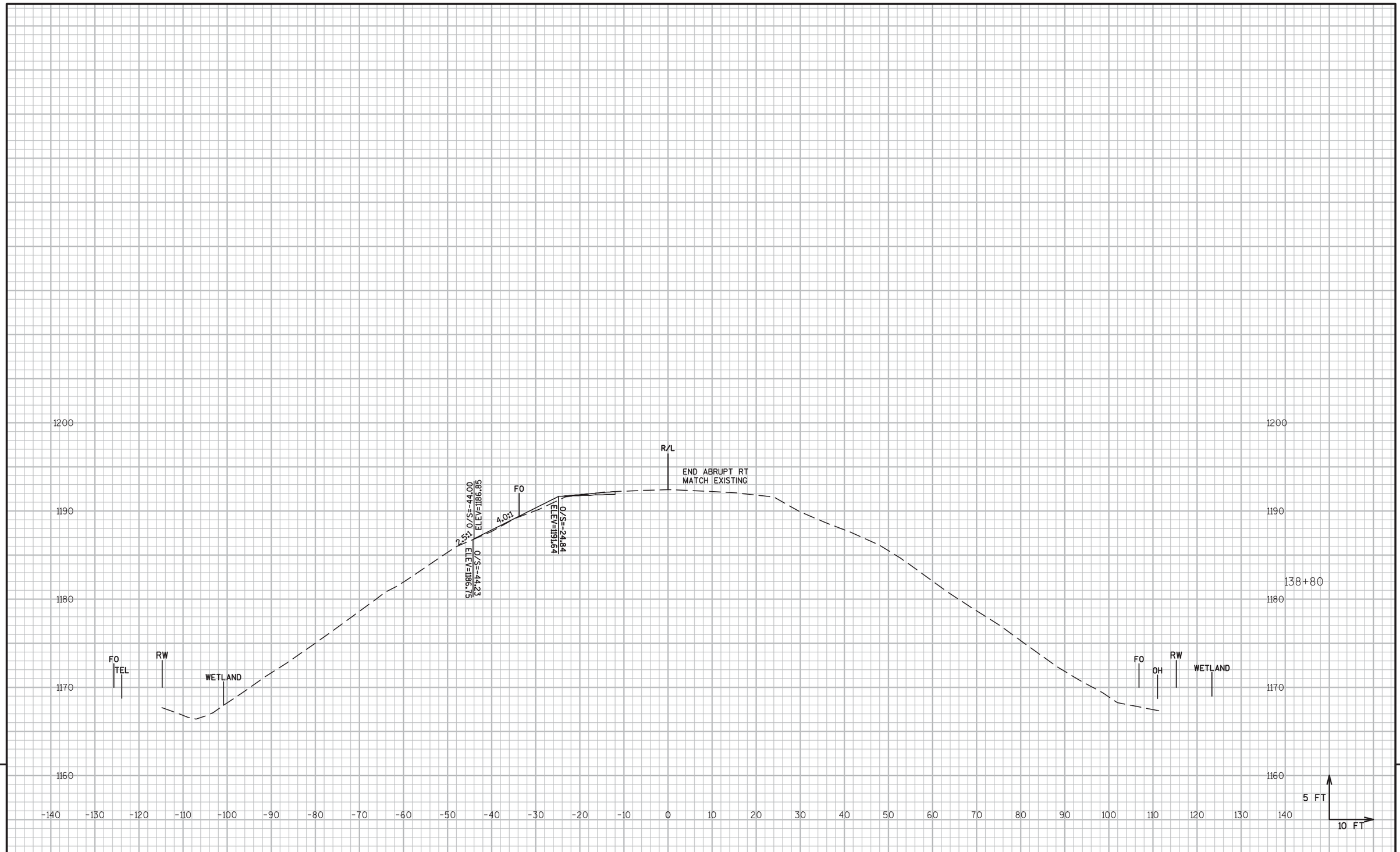
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 297	E

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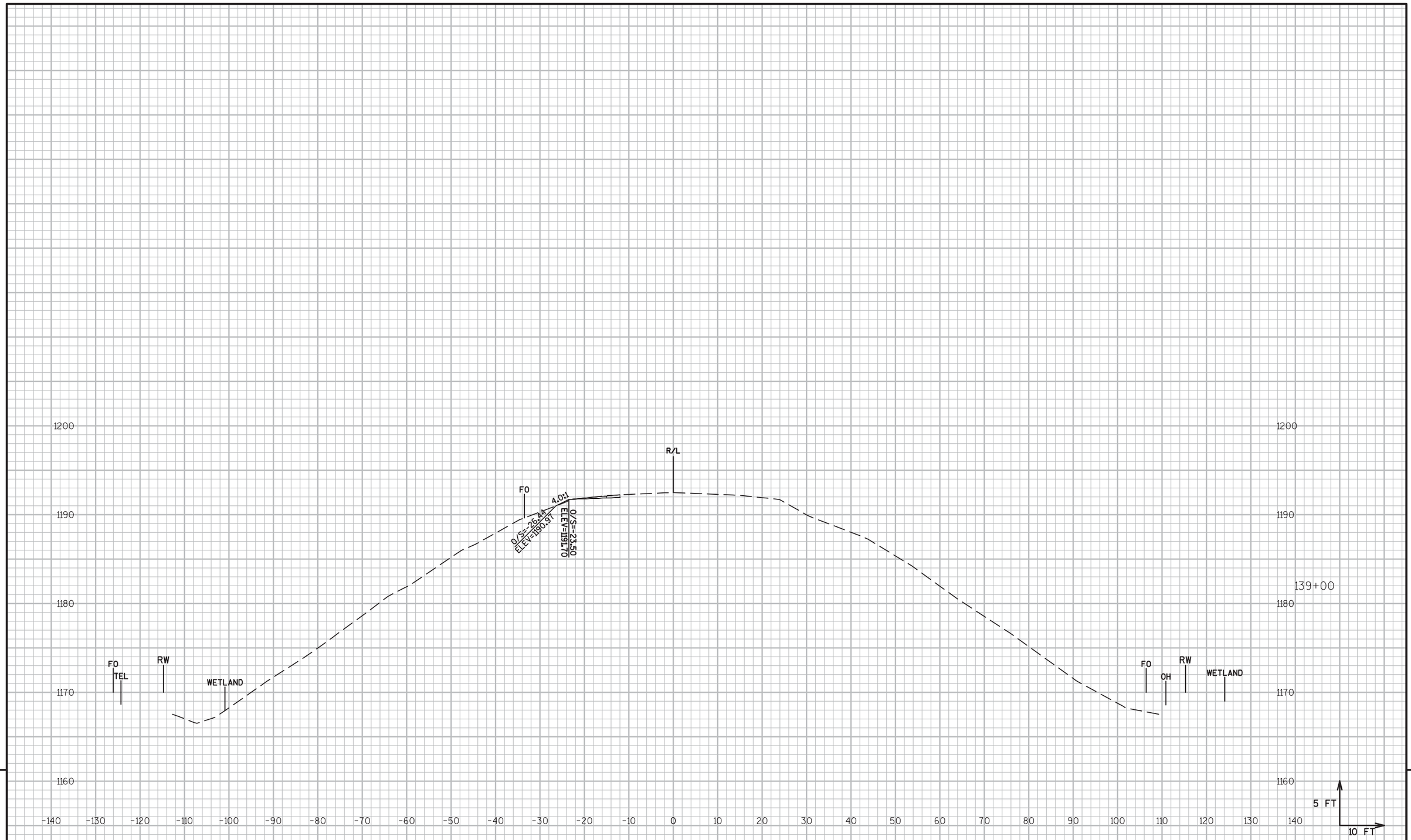
WISDOT/CADDS SHEET 49



PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 298	E

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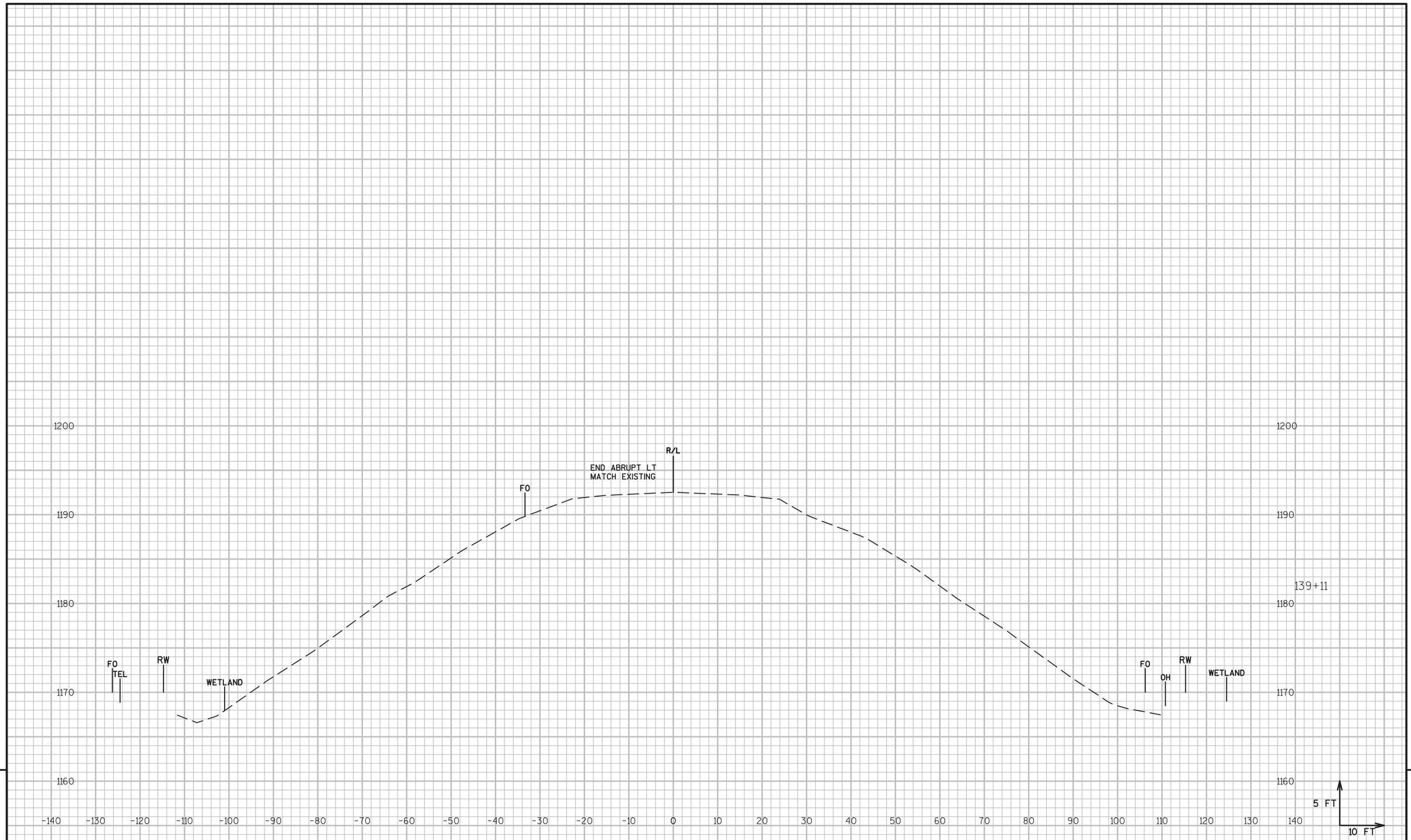
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 299	E

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WISDOT/CADDS SHEET 49

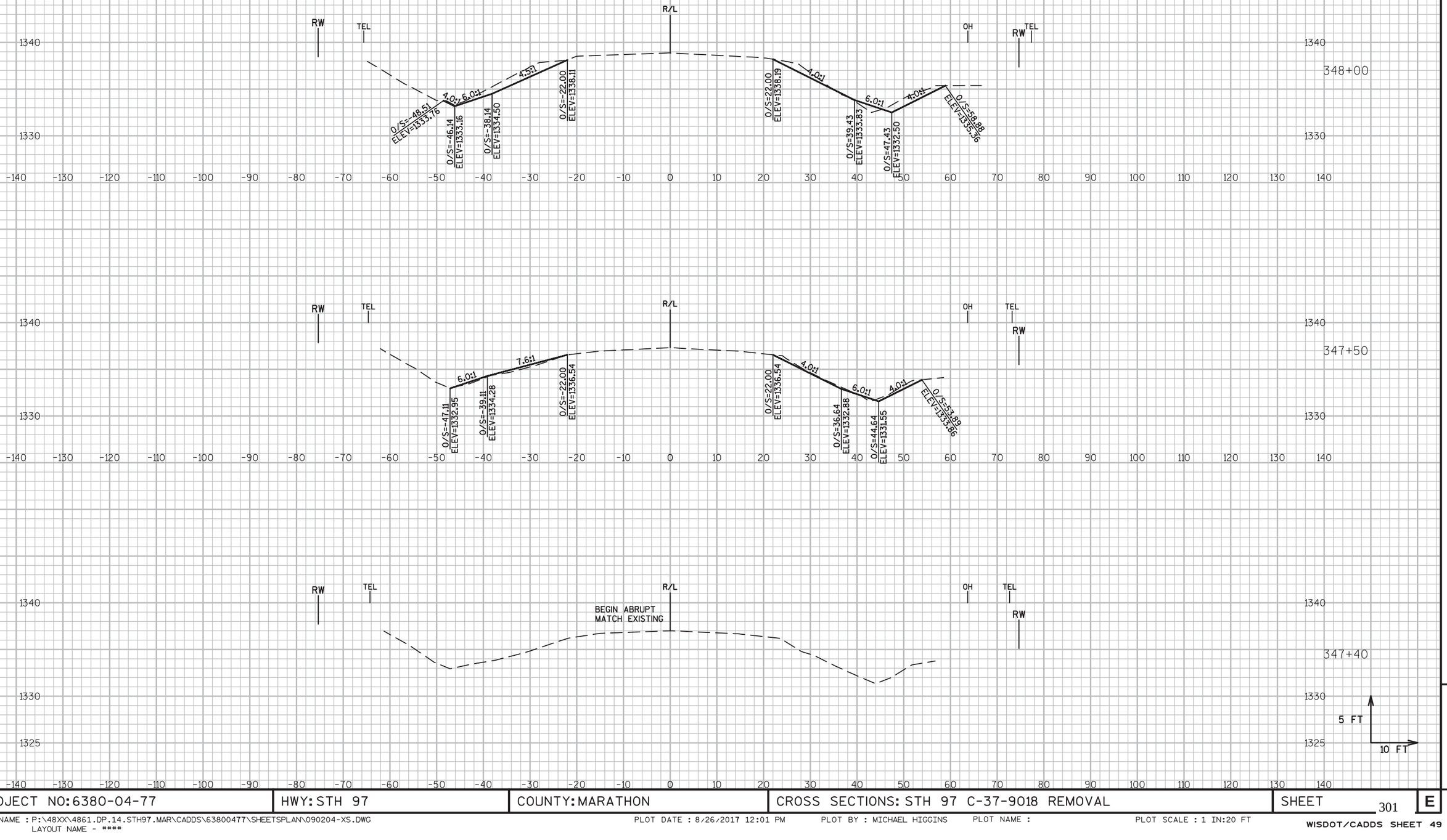


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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 B-37-0248	SHEET 300	E

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PLOT DATE : 8/26/2017 11:59 AM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1:20_XREF



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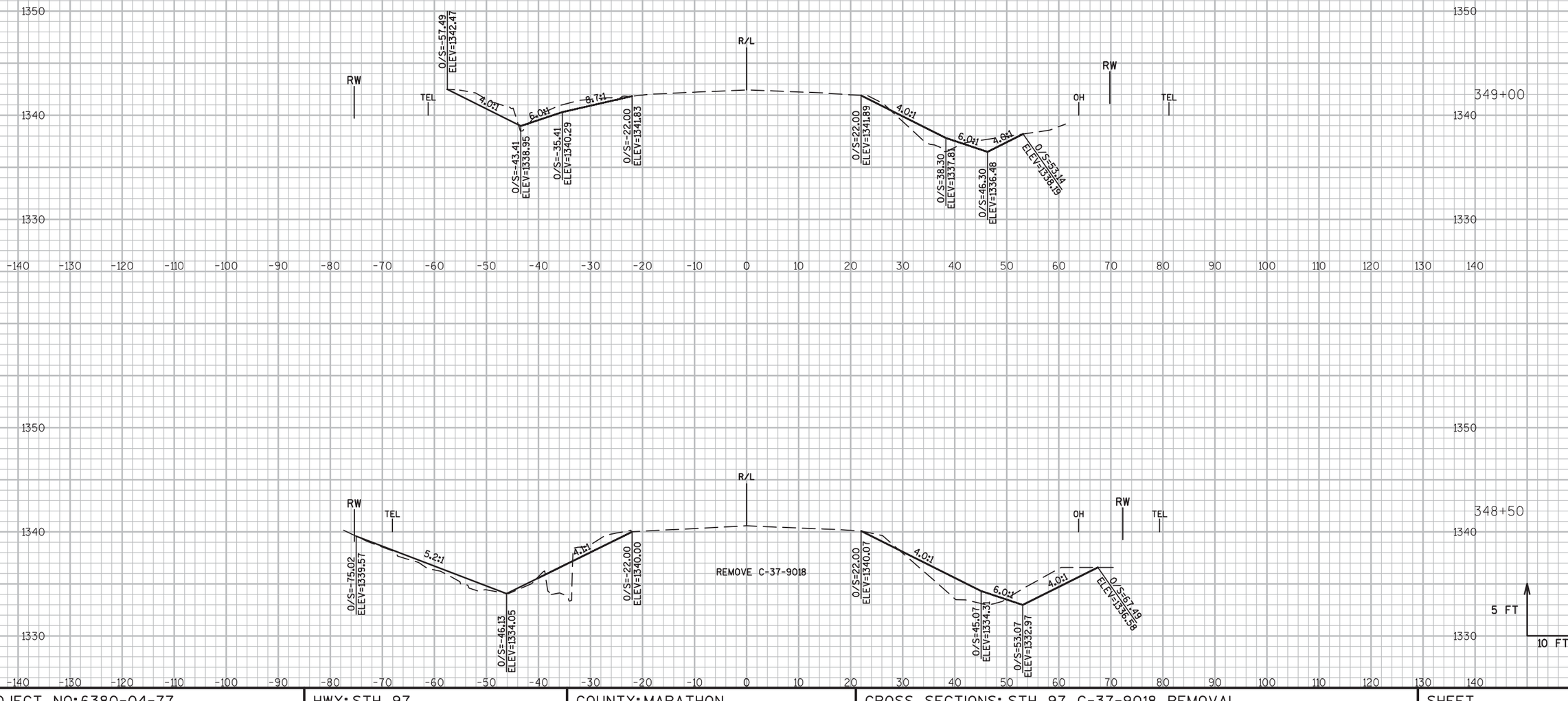
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PROJECT NO: 6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 C-37-9018 REMOVAL	SHEET 301	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - ****

PLOT DATE : 8/26/2017 12:01 PM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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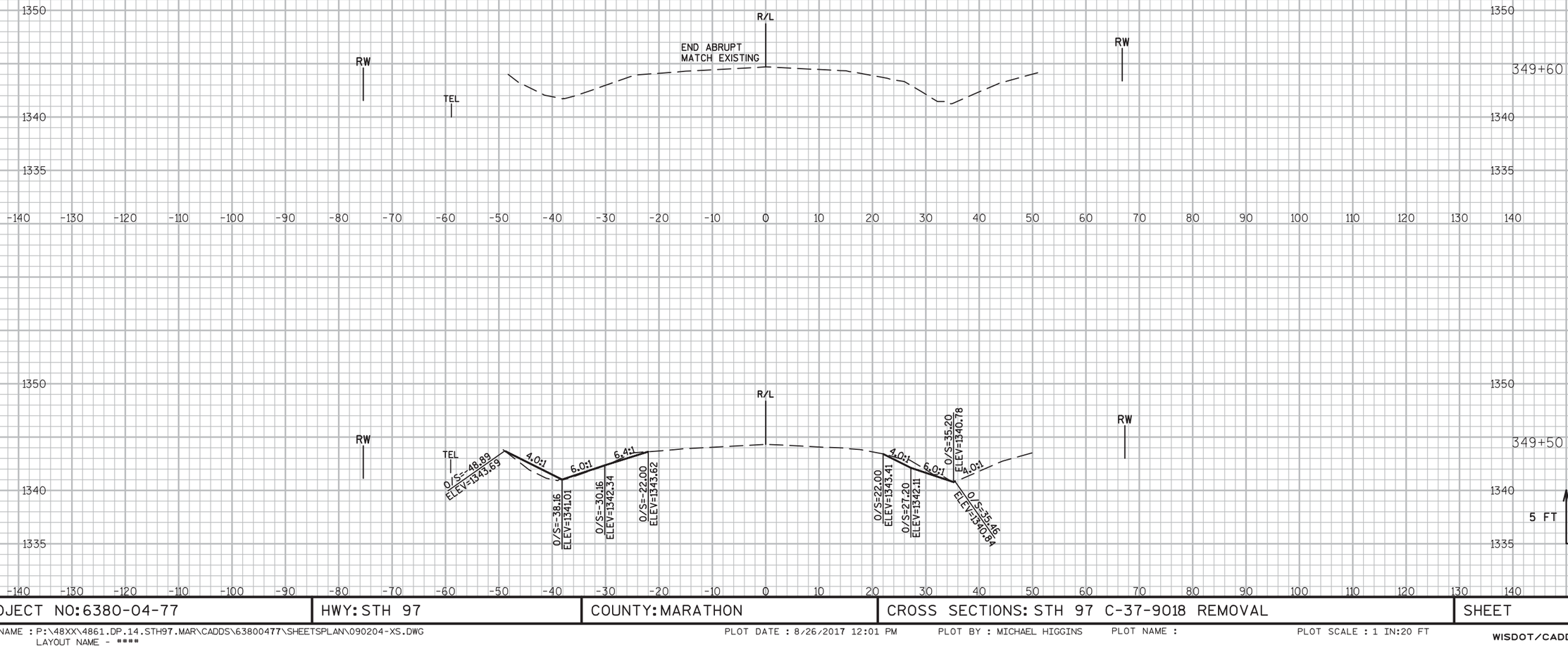
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FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - ****

PLOT DATE : 8/26/2017 12:01 PM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

PROJECT NO:6380-04-77	HWY: STH 97	COUNTY: MARATHON	CROSS SECTIONS: STH 97 C-37-9018 REMOVAL	SHEET 303	E

FILE NAME : P:\48XX\4861.DP.14.STH97.MAR\CADDS\63800477\SHEETSPLAN\090204-XS.DWG
LAYOUT NAME - ****

PLOT DATE : 8/26/2017 12:01 PM PLOT BY : MICHAEL HIGGINS PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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