WIS AUGUST 2026

PROJECT ID: 1053-07-85

N/A

COUNTY: MARATHON

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1053-07-85	WISC 2026441	1

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control Plans)
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 = 216

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

ABBOTSFORD-WAUSAU

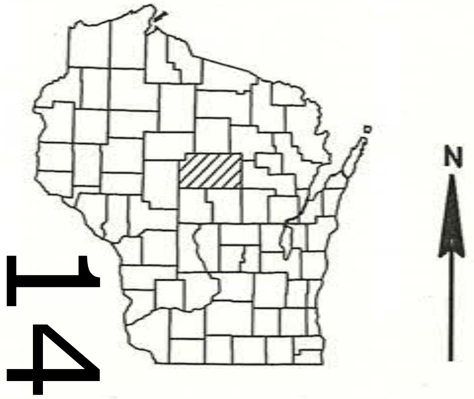
CTH E SOUTH TO STH 97, WB

STH 29

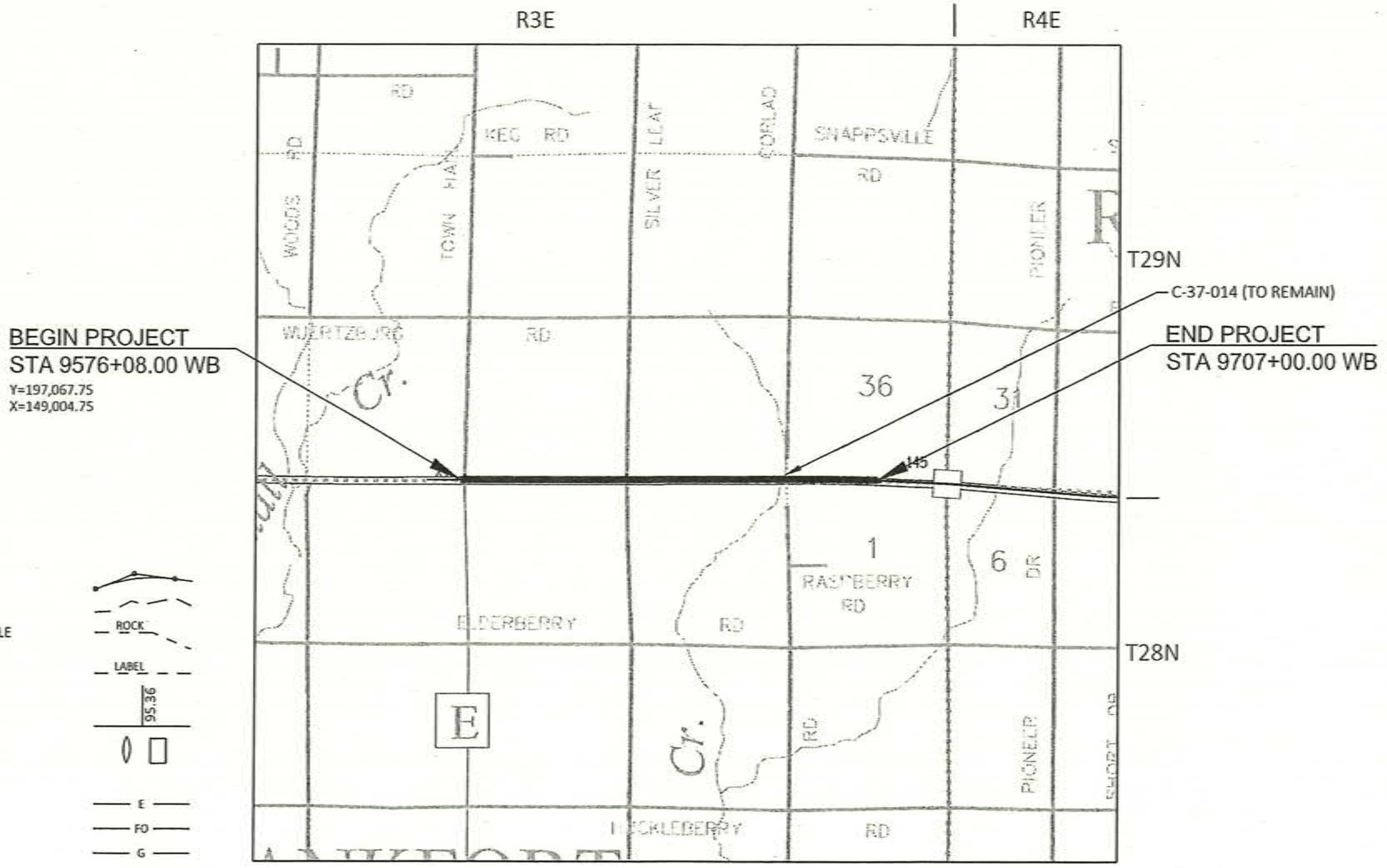
MARATHON COUNTY

STATE PROJECT NUMBER

1053-07-85



14



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 2.480 MI

DESIGN DESIGNATION

A.A.D.T.	(2026)	=	17,800
A.A.D.T.	(2046)	=	20,400
D.H.V.		=	1,255 (WB ONLY)
D.D.		=	50/50
T.		=	19.3%
DESIGN SPEED		=	70 M.P.H.
ESALS		=	14,000,000

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS	▨	GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		**UTILITIES**	
REFERENCE LINE	30'28'	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	⌧
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	Ø

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

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY:

STRAND ASSOCIATES®

ROBERT A JACK
E-42985
MADISON
WI

4-20-26

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	STRAND ASSOCIATES, INC.
Designer	STRAND ASSOCIATES, INC.
Project Manager	KOREY BOEHM, P.E.
Regional Examiner	FRED SCHUNKE
Regional Supervisor	KEVIN KUJAWA, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 4-20-26

(Signature)

E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\010101-TI.DWG

PLOT DATE : 4/8/2026 9:45 AM PLOT BY : JACK, ROBERT A. PLOT NAME :

UTILITIES CONTACTS

*FRONTIER COMMUNCATIONS OF WI LLC
COMMUNICATION LINE
CHRISTOPHER POLLACK
521 N 4TH STREET
WAUSA, WI 54403
PHONE: 715-847-1240
EMAIL: CHRISTOPHER.POLLACK@FTR.COM

*XCEL ENERGY
ELECTRICITY
JOHN KELSER
1400 WESTERN AVE
EAU CLAIRE, WI 54703
PHONE: 715-737-6020
EMAIL: JOHN.KELSER@XCELENERGY.COM

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

WISDOT REGION CONTACT

KOREY BOEHM, P.E.
WISDOT NORTH CENTRAL REGION
1684 2ND AVENUE SOUTH
WISCONSIN RAPIDS, WI 54495
PHONE: 715-459-2943
EMAIL: KOREY.BOEHM@DOT.WI.GOV

DESIGN CONSULTANT CONTACT

ROBERT JACK, P.E.
STRAND ASSOCIATES, INC.
910 WEST WINGRA DRIVE
MADISON, WI 53715
PHONE: 608-251-4843
EMAIL: ROBERT.JACK@STRAND.COM

WISCONSIN DNR LIAISON

JAY SCHIEFELBEIN
DNR NORTHEAST REGIONAL HEADQUARTERS
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
PHONE: 920-360-3784
EMAIL: JEREMIAH.SCHIEFELBEIN@WISCONSIN.GOV

GENERAL NOTES

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

THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING CULVERT PIPES AS SHOWN ON THE PLANS ARE APPROXIMATE AND BASED ON AVAILABLE AS-BUILT INFORMATION.

SUBSURFACE SOIL BORING REPORTS ARE AVAILABLE FROM WISDOT NC REGION BY CONTACTING KOREY BOEHM, WISDOT DESIGN PROJECT MANAGER, AT (715) 459-2943 OR BY EMAIL AT KOREY.BOEHM@DOT.WI.GOV.

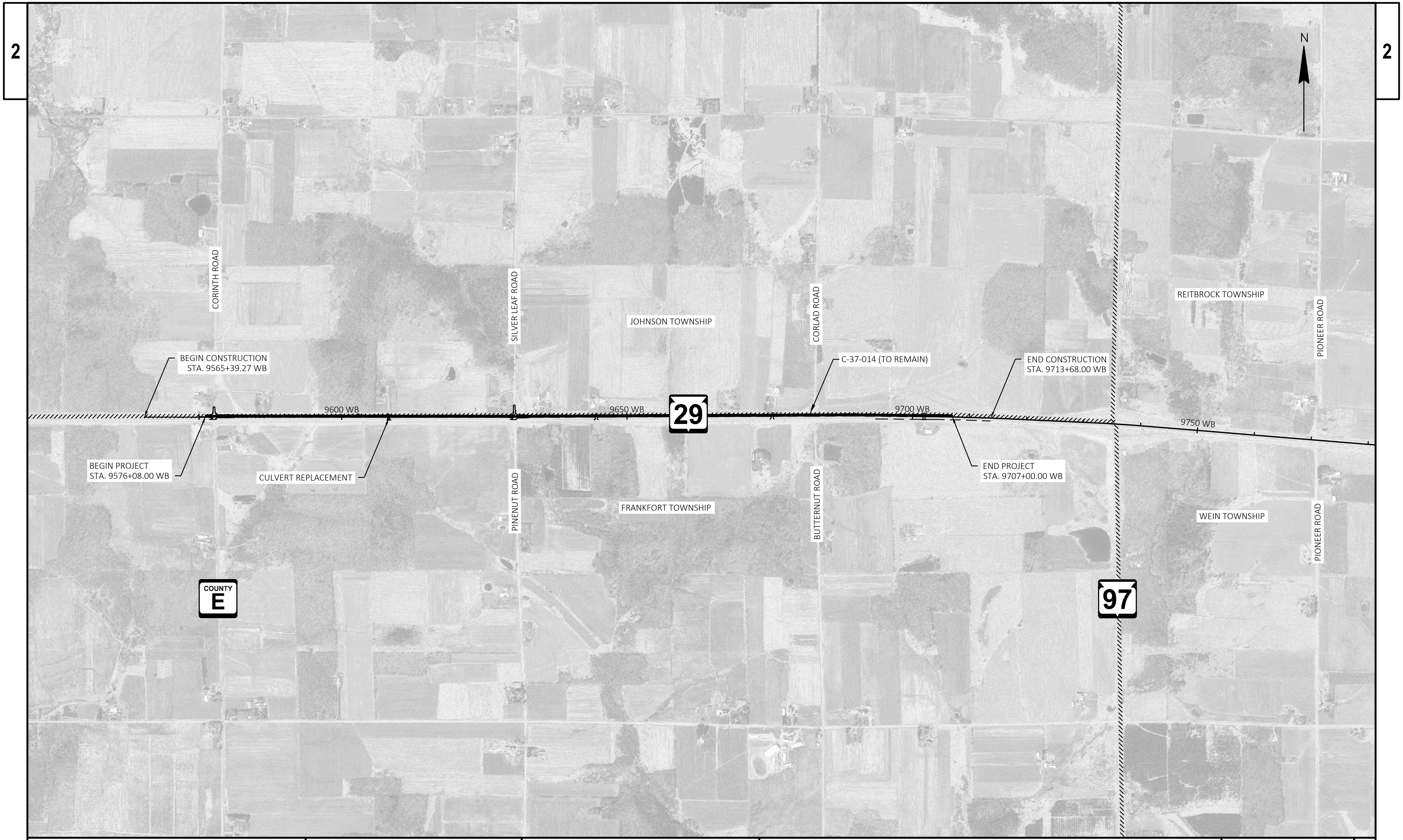
RUNOFF COEFFICIENT TABLE

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

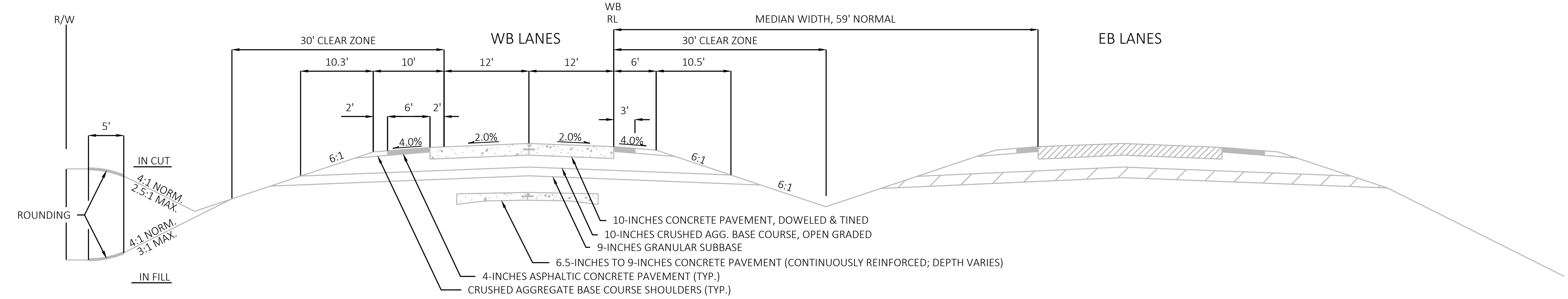
TOTAL PROJECT AREA = 88.33 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 20.61 ACRES

STH 29 MAINLINE OUTSIDE SHOULDERS (4 INCHES)		
LAYER	**THICKNESS**	**TYPE**
UPPER	2 INCHES	4 MT 58-28 S
LOWER	2 INCHES	4 MT 58-28 S
STH 29 MAINLINE INSIDE SHOULDERS (4 INCHES)		
LAYER	**THICKNESS**	**TYPE**
UPPER	4 INCHES	4 MT 58-28 S
STH 29 MAINLINE TURN LANES / SIDEROADS (5 INCHES)		
LAYER	**THICKNESS**	**TYPE**
UPPER	2 INCHES	4 MT 58-28 S
LOWER	3 INCHES	4 MT 58-28 S

ORDER OF SECTION 2 DETAIL SHEETS

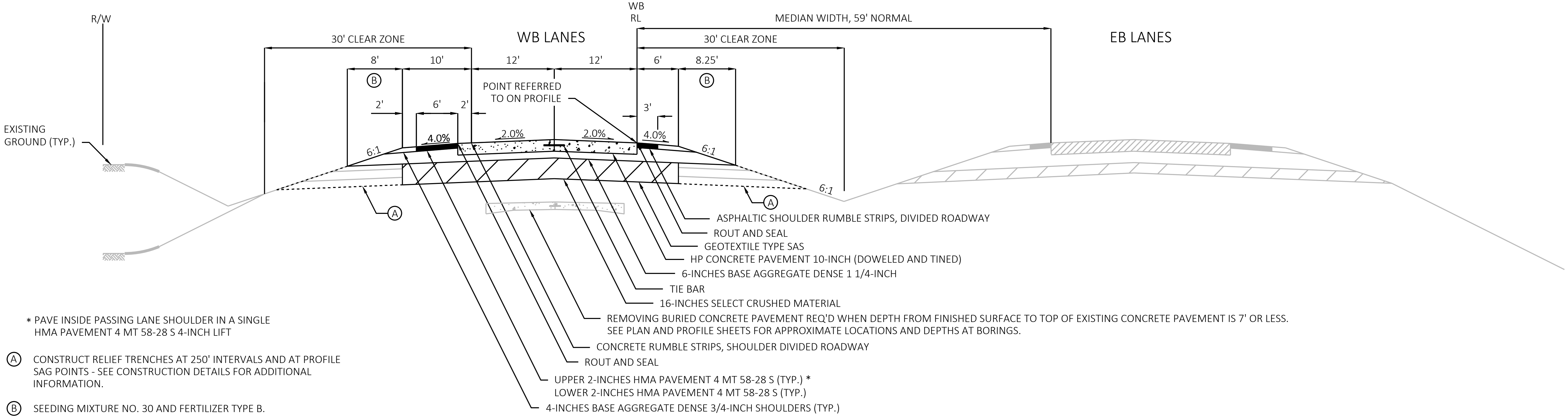


PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PROJECT OVERVIEW	SHEET 3	E



EXISTING TYPICAL SECTION

STH 29
STA. 9576+08 WB - STA. 9707+00 WB



* PAVE INSIDE PASSING LANE SHOULDER IN A SINGLE
HMA PAVEMENT 4 MT 58-28 S 4-INCH LIFT

Ⓐ CONSTRUCT RELIEF TRENCHES AT 250' INTERVALS AND AT PROFILE SAG POINTS - SEE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

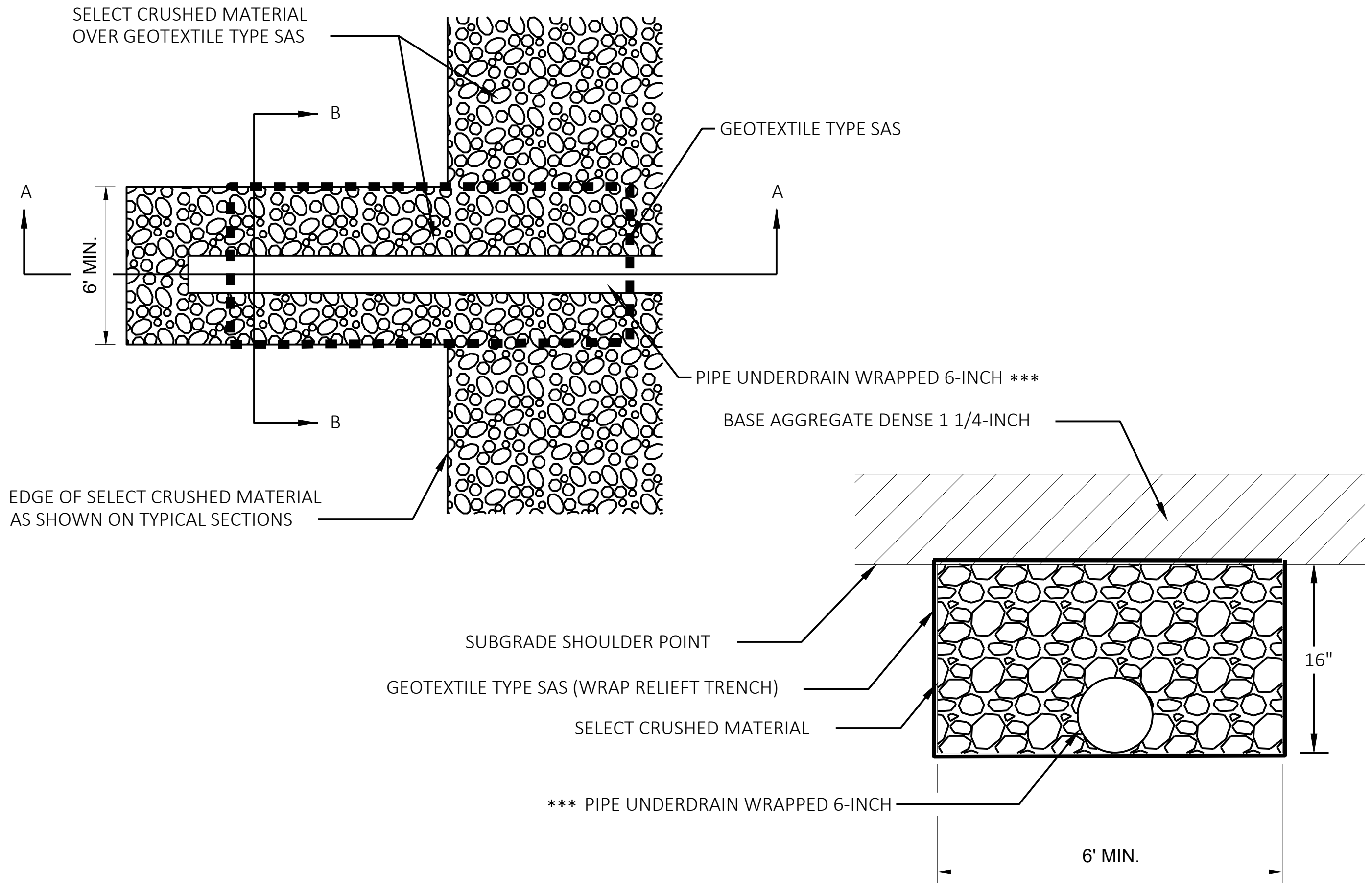
Ⓑ SEEDING MIXTURE NO. 30 AND FERTILIZER TYPE B.

SEE EROSION CONTROL SHEETS FOR ADDITIONAL FINISHING ITEMS.

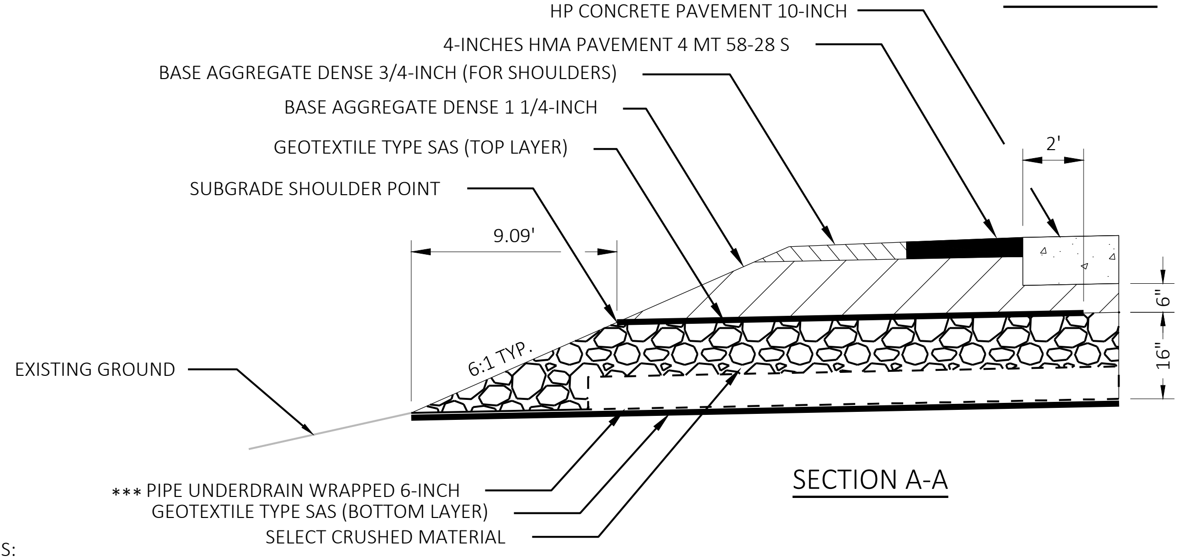
FINISHED TYPICAL SECTION

STH 29
STA. 9576+08 WB - STA. 9707+00 WB

2



SECTION B-B



SECTION A-A

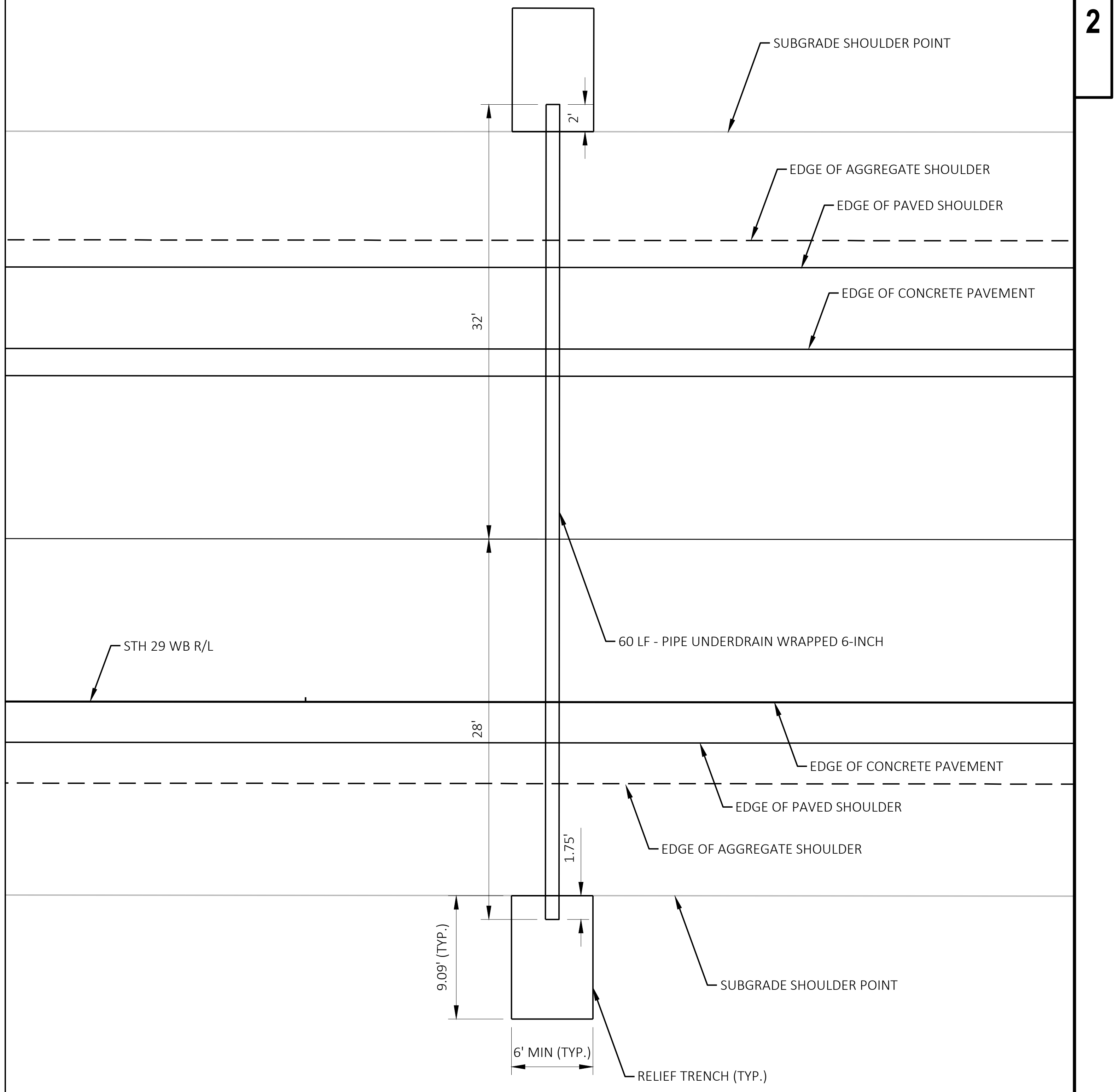
NOTES:

CONSTRUCT RELIEF TRENCHES AT LEAST EVERY 250', AT EACH LOW POINT IN THE PROFILE, OR AS DIRECTED BY ENGINEER. CONSTRUCT AT ANGLE AS NEEDED TO ENSURE POSITIVE DRAINAGE (LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER).

EXISTING PIPE UNDERDRAIN ENDWALL REMOVAL INCIDENTAL TO COMMON EXCAVATION.

***INSTALL PIPE UNDERDRAIN WRAPPED 6-INCH AT LOW POINTS AND AS DIRECTED BY THE ENGINEER.

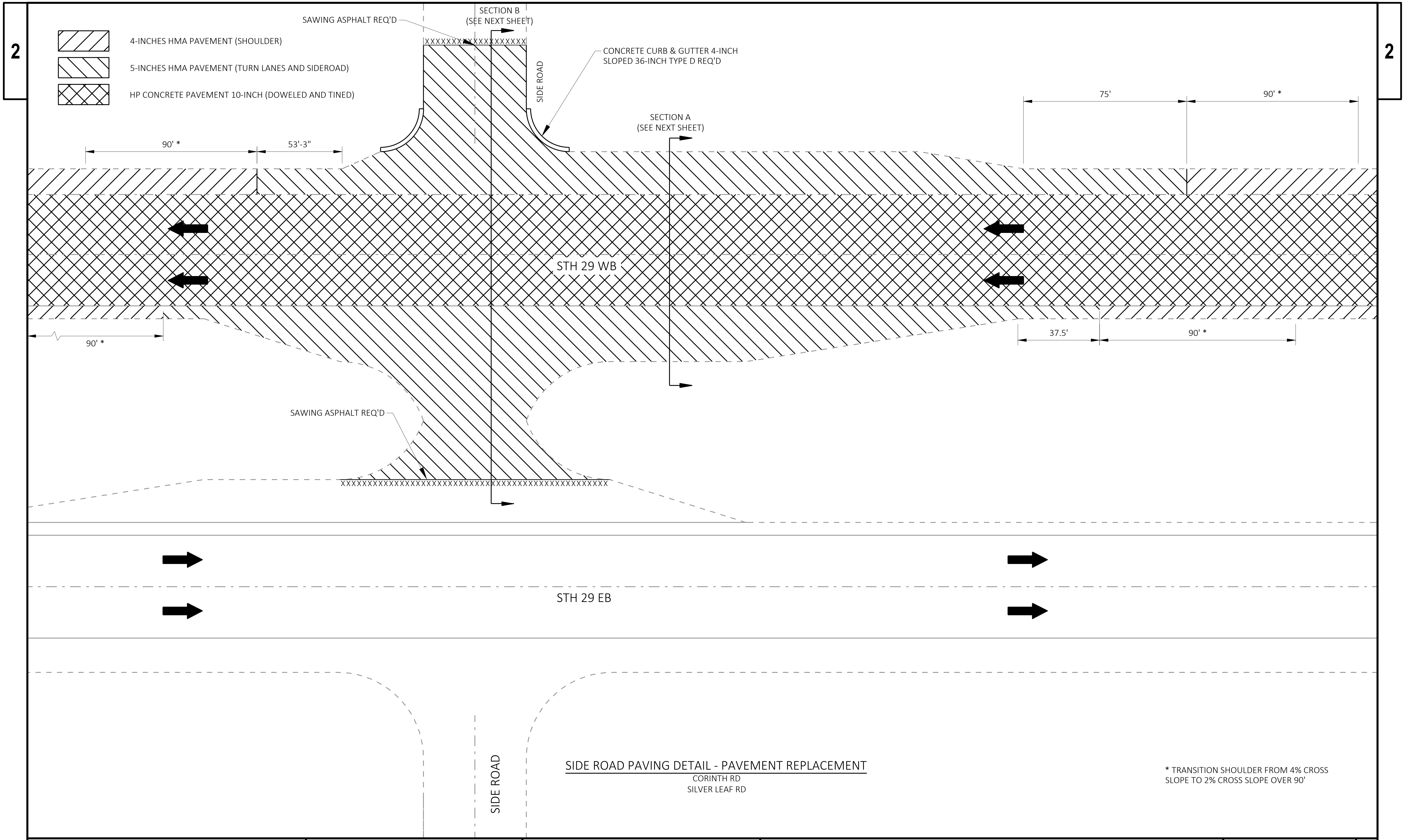
RELIEF TRENCH DETAIL



PIPE UNDERDRAIN WRAPPED 6-INCH AT RELIEF TRENCH DETAIL

(SEE RELIEF TRENCH DETAIL FOR LOCATIONS)

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CONSTRUCTION DETAILS	SHEET 5	E

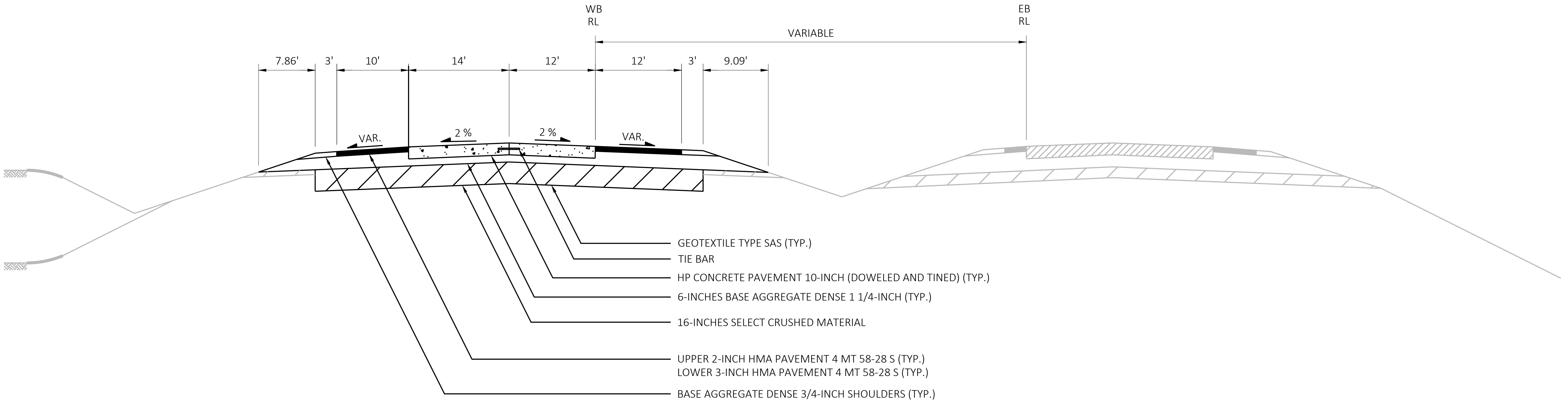


SIDE ROAD PAVING DETAIL - PAVEMENT REPLACEMENT

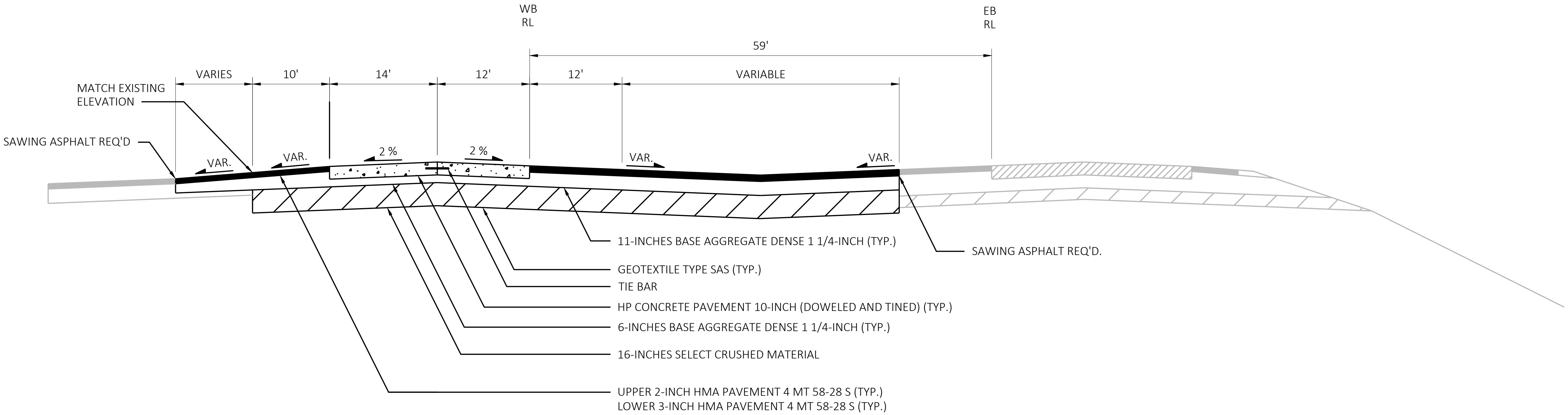
CORINTH RD
SILVER LEAF RD

* TRANSITION SHOULDER FROM 4% CROSS SLOPE TO 2% CROSS SLOPE OVER 90'

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CONSTRUCTION DETAILS	SHEET 6	E



SECTION A



SECTION B

SIDE ROAD PAVING DETAIL - PAVEMENT REPLACEMENT

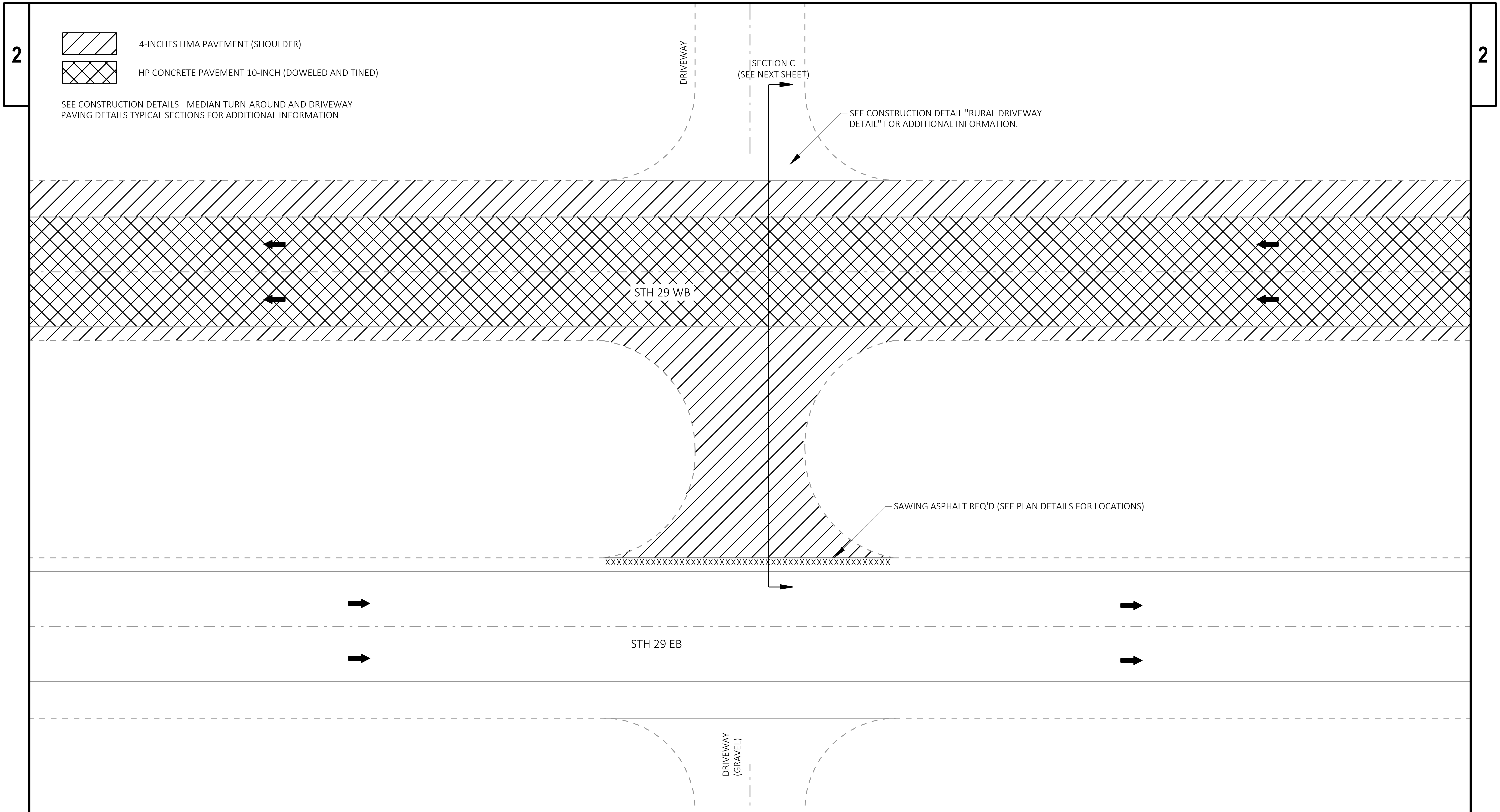
CORINTH RD
SILVER LEAF RD

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CONSTRUCTION DETAILS	SHEET 7	E

▨ 4-INCHES HMA PAVEMENT (SHOULDER)

▩ HP CONCRETE PAVEMENT 10-INCH (DOWELED AND TINED)

SEE CONSTRUCTION DETAILS - MEDIAN TURN-AROUND AND DRIVEWAY PAVING DETAILS TYPICAL SECTIONS FOR ADDITIONAL INFORMATION

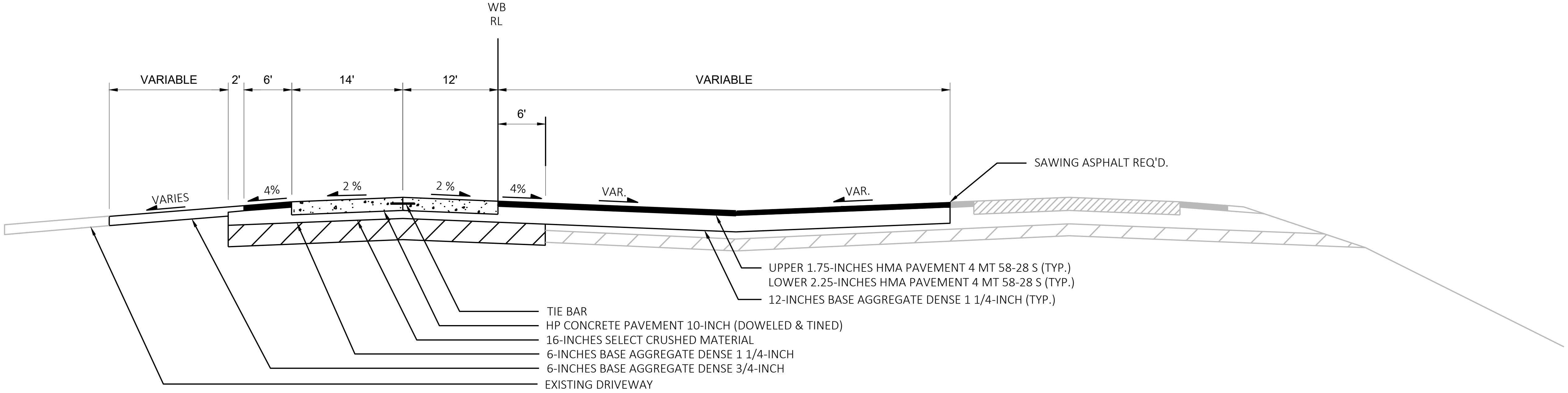


MEDIAN TURN-AROUND AND DRIVEWAY PAVING DETAIL - PAVEMENT REPLACEMENT

STA. 9608+23
STA. 9644+60
STA. 9675+43
STA. 9702+05

PROJECT NO: 1053-07-85
HWY: STH 29
COUNTY: MARATHON
CONSTRUCTION DETAILS
SHEET 8
E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\021001-CD.DWG
LAYOUT NAME - 021004-cd
PLOT DATE : 2/19/2026 8:27 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

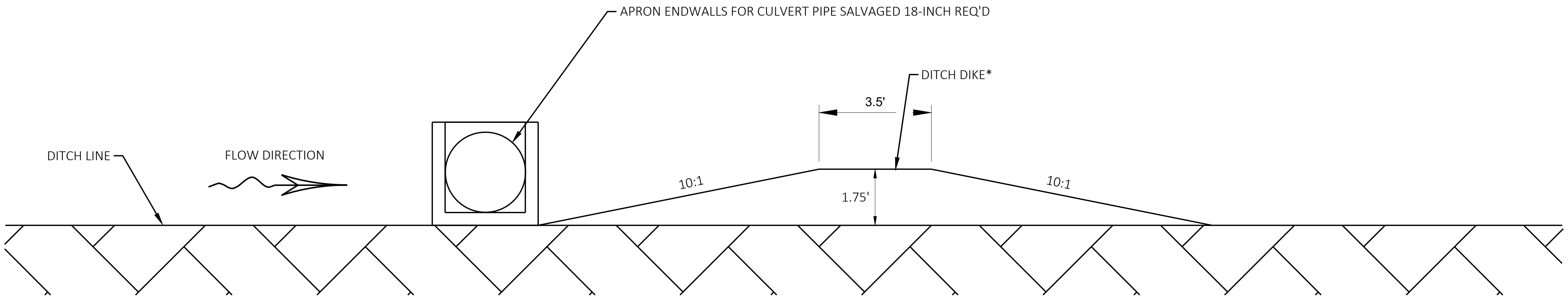


SECTION C

MEDIAN TURN-AROUND AND DRIVEWAY PAVING DETAIL
TYPICAL SECTION - PAVEMENT REPLACEMENT

STA. 9608+23
STA. 9644+60
STA. 9675+43
STA. 9702+05

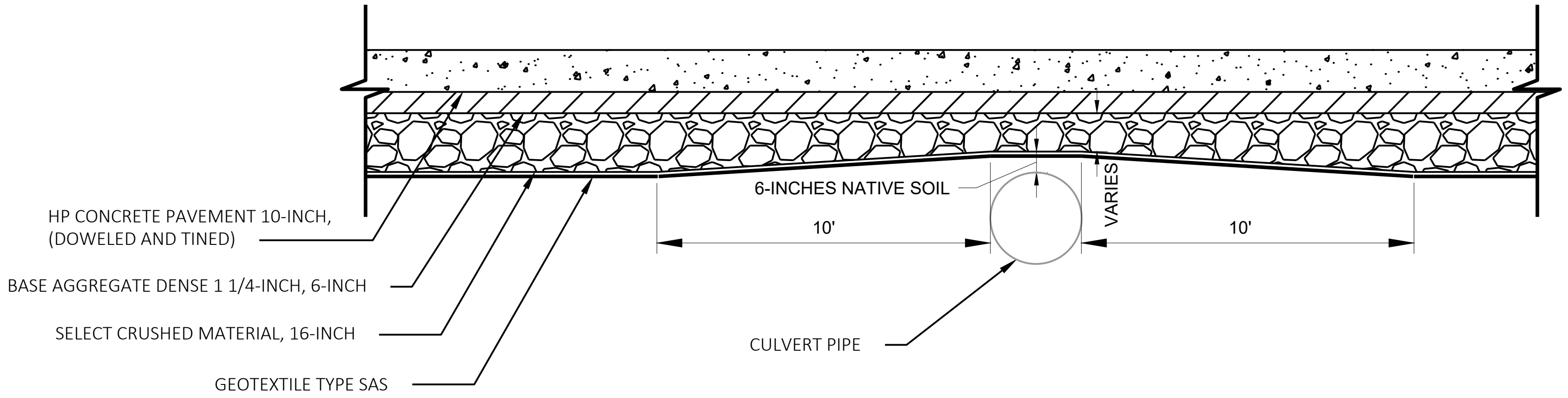
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CONSTRUCTION DETAILS	SHEET 9	E



REESTABLISHING DITCH DIKES AT IMPACTED MEDIAN DRAINS

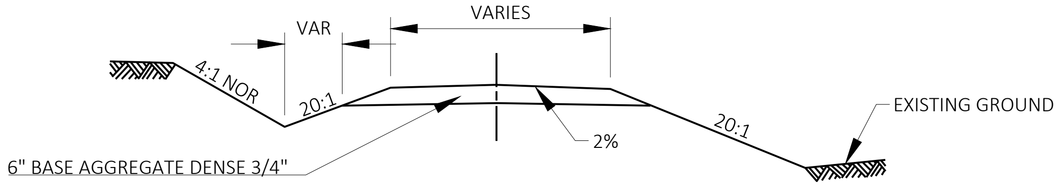
9710+87 WB

*DITCH DIKE CONSTRUCTION IS INCIDENTAL TO COMMON EXCAVATION. SUITABLE WASTE MATERIAL MAY BE USED FOR CONSTRUCTION OF DITCH DIKE.

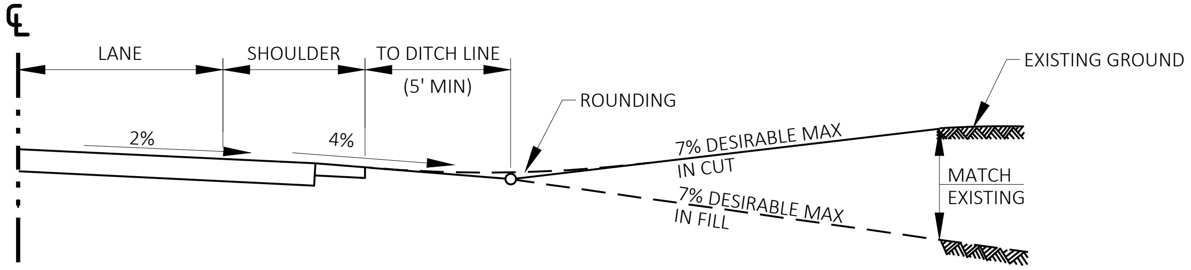


CULVERT PIPE GRADING

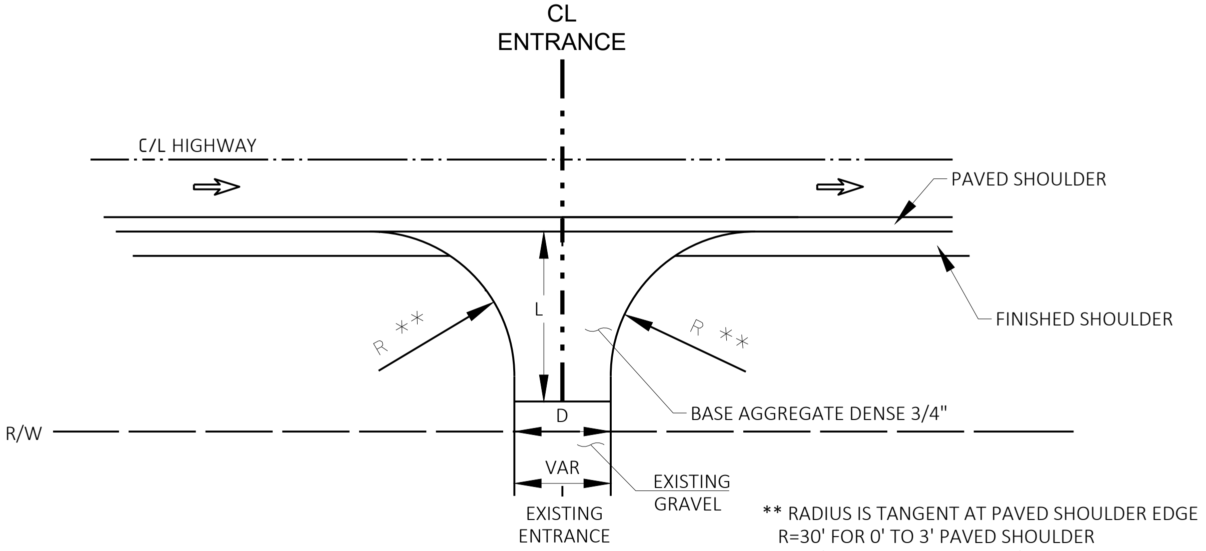
NOTE: DETAIL APPLICABLE FOR WHEN CULVERT PIPE ENCROACHES INTO THE SELECT CRUSHED MATERIAL.



TYPICAL CROSS SECTION



TYPICAL PROFILE VIEW



** RADIUS IS TANGENT AT PAVED SHOULDER EDGE
R=30' FOR 0' TO 3' PAVED SHOULDER
R=25' FOR GREATER THAN 3' PAVED SHOULDER

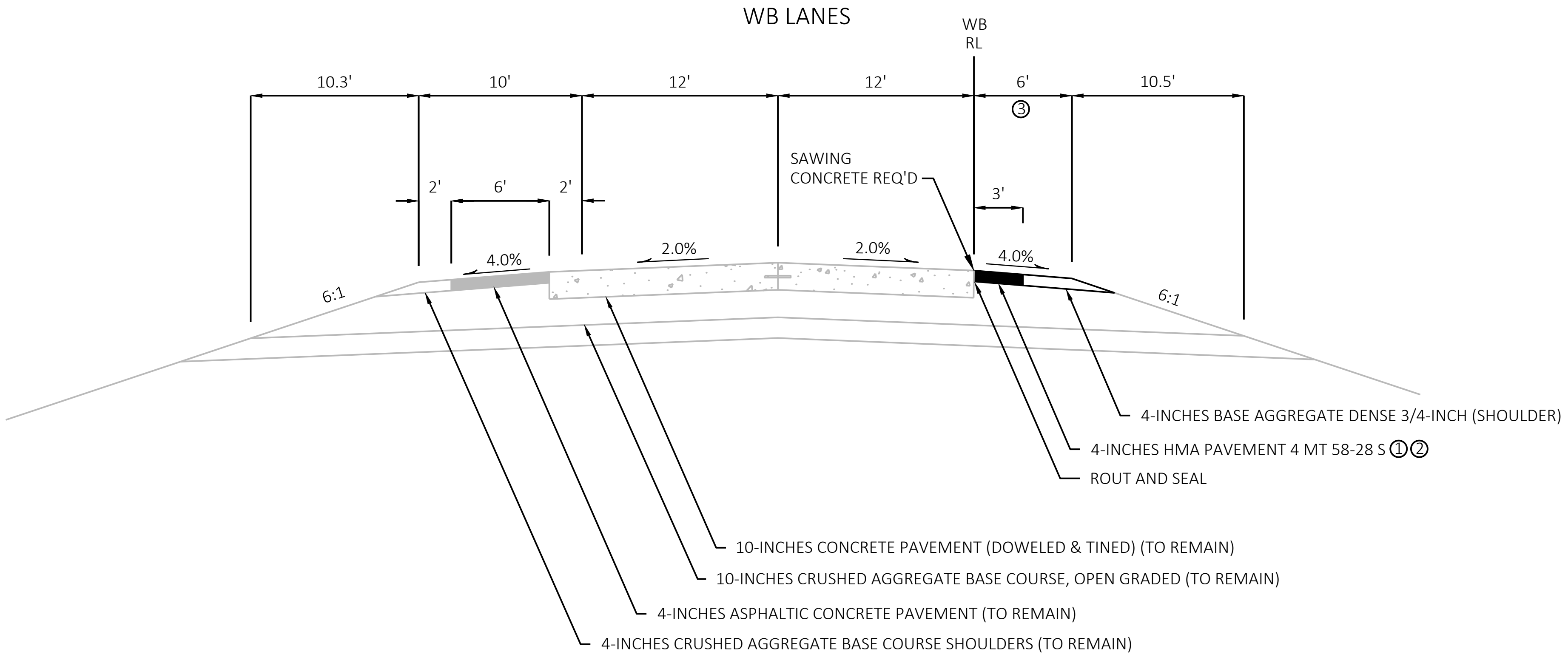
L=VARIABLE, EXACT LENGTH TO BE DETERMINED IN
THE FIELD BY THE ENGINEER

D=DRIVEWAY WIDTH
D=20'TYP(PE & FE) (16'MIN-24'MAX)
D=28'TYP(CE & FARM ENT) (24'MIN-35'MAX)

PLAN VIEW

RURAL DRIVEWAY INTERSECTION (PE, FE & CE)

(FOR NEW CONSTRUCTION)



4-INCHES BASE AGGREGATE DENSE 3/4-INCH (SHOULDER)

4-INCHES HMA PAVEMENT 4 MT 58-28 S ①②

ROUT AND SEAL

10-INCHES CONCRETE PAVEMENT (DOWELED & TINED) (TO REMAIN)

10-INCHES CRUSHED AGGREGATE BASE COURSE, OPEN GRADED (TO REMAIN)

4-INCHES ASPHALTIC CONCRETE PAVEMENT (TO REMAIN)

4-INCHES CRUSHED AGGREGATE BASE COURSE SHOULDERS (TO REMAIN)

ASPHALTIC SHOULDER PAVEMENT REPLACEMENT

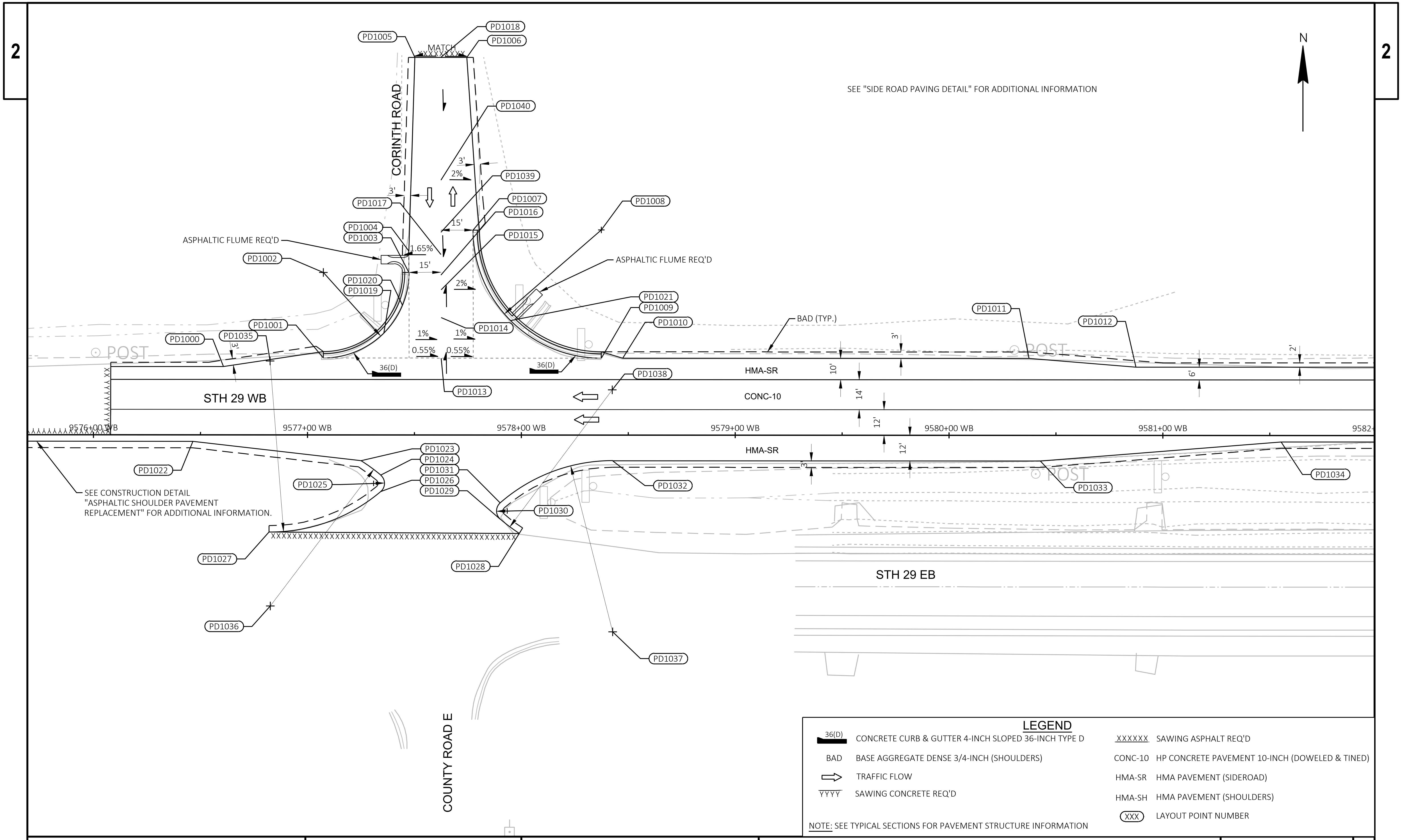
STA 9565+39.27 WB - 9576+08.00 WB

① ASPHALTIC RUMBLE STRIPS, SHOULDER DIVIDED ROADWAY, PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS REQ'D

② PAVE INSIDE PASSING LANE SHOULDER IN A SINGLE HMA PAVEMENT 4 MT 58-28 S 4-INCH LIFT

③ REMOVAL OF EXISTING ASPHALT SHOULDER PAID FOR UNDER BID ITEM "REMOVING ASPHALTIC SURFACE"

SEE "SIDE ROAD PAVING DETAIL" FOR ADDITIONAL INFORMATION



SEE CONSTRUCTION DETAIL "ASPHALTIC SHOULDER PAVEMENT REPLACEMENT" FOR ADDITIONAL INFORMATION.

LEGEND

36(D)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	XXXXXX	SAWING ASPHALT REQ'D
BAD	BASE AGGREGATE DENSE 3/4-INCH (SHOULDERS)	CONC-10	HP CONCRETE PAVEMENT 10-INCH (DOWELED & TINED)
⇨	TRAFFIC FLOW	HMA-SR	HMA PAVEMENT (SIDEROAD)
YYYY	SAWING CONCRETE REQ'D	HMA-SH	HMA PAVEMENT (SHOULDERS)
		(XXX)	LAYOUT POINT NUMBER

NOTE: SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURE INFORMATION

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	REMARKS
PD1000	9576+60.76	32.00 LT	197099.721	149057.534	1406.95	EOP
PD1001	9577+07.43	36.00 LT	197103.691	149104.203	1406.70	EOP; END RADIUS
PD1002	9577+07.43	76.00 LT	197143.691	149104.229	---	R = 40'
PD1003	9577+47.43	76.07 LT	197143.740	149144.229	1405.96	EOP; END RADIUS
PD1004	9577+47.41	86.07 LT	197153.740	149144.217	1405.95	EOP; BEGIN TAPER
PD1005	9577+50.08	176.59 LT	197244.251	149146.943	---	MATCH EXISTING
PD1006	9577+74.39	176.63 LT	197244.280	149171.257	---	MATCH EXISTING
PD1007	9577+77.39	95.89 LT	197163.536	149174.205	1405.95	EOP; END RADIUS
PD1008	9578+37.39	96.00 LT	197163.608	149234.205	---	R = 60'
PD1009	9578+37.39	36.00 LT	197103.608	149234.166	1405.98	EOP; END RADIUS
PD1010	9578+47.39	36.00 LT	197103.602	149244.166	1405.91	EOP; BEGIN TAPER
PD1011	9580+37.39	36.00 LT	197103.480	149434.166	1404.32	EOP; END TAPER
PD1012	9580+87.39	32.00 LT	197099.448	149484.164	1403.97	EOP; BEGIN TAPER
PD1013	9577+62.49	36.00 LT	197103.656	149159.266	1406.24	CL ELEVATION
PD1014	9577+62.46	54.92 LT	197122.580	149159.245	1406.24	CL ELEVATION
PD1015	9577+62.45	67.92 LT	197135.579	149159.242	1406.18	CL ELEVATION
PD1016	9577+62.42	74.87 LT	197142.530	149159.222	1406.14	CL ELEVATION
PD1017	9577+62.40	84.43 LT	197152.083	149159.209	1406.19	CL ELEVATION
PD1018	9577+62.24	176.60 LT	197244.260	149159.107	---	MATCH EXISTING
PD1019	9577+35.74	47.74 LT	197115.415	149132.521	1406.32	FLAG ELEVATION
PD1020	9577+44.40	60.74 LT	197128.412	149141.195	1406.10	FLAG ELEVATION

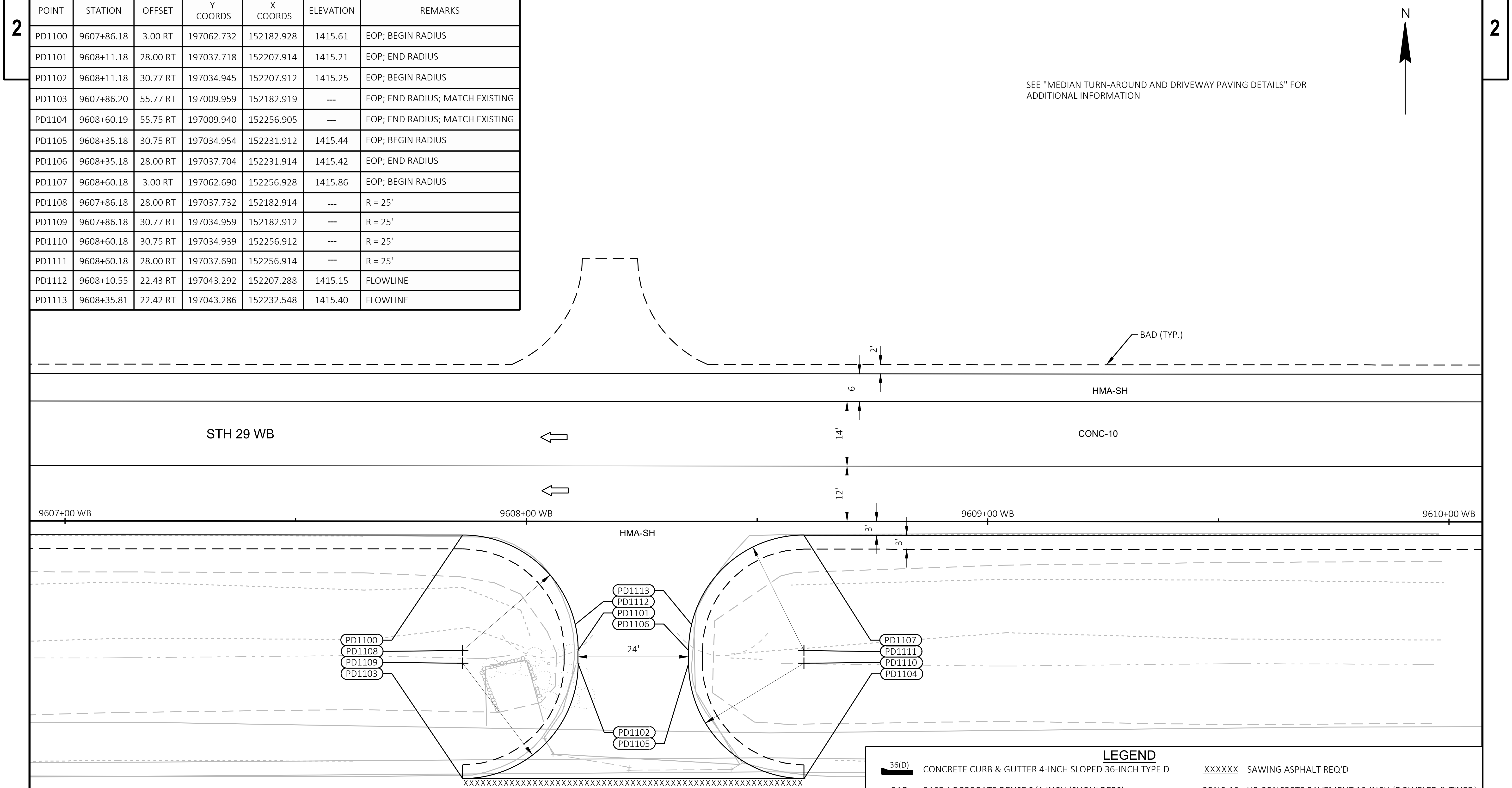
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	REMARKS
PD1021	9577+95.00	53.53 LT	197121.170	149191.791	1405.70	FLAG ELEVATION; LOW POINT
PD1022	9576+46.46	3.00 RT	197064.730	149043.213	1407.09	EOP; BEGIN TAPER
PD1023	9577+24.89	12.02 RT	197055.664	149121.630	1406.62	EOP; BEGIN RADIUS, END TAPER
PD1024	9577+34.21	18.78 RT	197048.897	149130.953	1406.44	EOP; END RADIUS
PD1025	9577+30.99	22.60 RT	197045.072	149127.732	---	R = 5'
PD1026	9577+34.23	26.42 RT	197041.256	149130.962	1406.34	EOP; END RADIUS
PD1027	9576+82.10	45.39 RT	197022.321	149078.828	---	EOP; BEGIN RADIUS; MATCH EXISTING
PD1028	9577+99.04	45.97 RT	197021.662	149195.760	---	EOP; BEGIN RADIUS; MATCH EXISTING
PD1029	9577+90.14	39.28 RT	197028.356	149186.864	1405.99	EOP; END RADIUS
PD1030	9577+93.41	35.50 RT	197032.132	149190.141	---	R = 5'
PD1031	9577+90.12	31.74 RT	197035.901	149186.855	1405.99	EOP; END RADIUS
PD1032	9578+42.74	12.00 RT	197055.605	149239.484	1405.95	EOP; BEGIN RADIUS
PD1033	9580+42.74	12.00 RT	197055.477	149439.484	1404.27	EOP; END TAPER
PD1034	9581+55.24	3.00 RT	197064.405	149551.989	1403.54	EOP; BEGIN TAPER
PD1035	9576+82.50	34.61 LT	197102.320	149079.279	---	R = 80'
PD1036	9576+82.72	80.00 RT	196987.707	149079.418	---	R = 80'
PD1037	9578+42.74	92.00 RT	196975.605	149239.432	---	R = 80'
PD1038	9578+42.53	21.17 LT	197088.779	149239.295	---	R = 80'
PD1039	9577+62.39	94.87 LT	197162.530	149159.200	1406.24	CL ELEVATION
PD1040	9577+62.34	119.19 LT	197186.850	149159.172	1406.41	CL ELEVATION

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	REMARKS
PD1100	9607+86.18	3.00 RT	197062.732	152182.928	1415.61	EOP; BEGIN RADIUS
PD1101	9608+11.18	28.00 RT	197037.718	152207.914	1415.21	EOP; END RADIUS
PD1102	9608+11.18	30.77 RT	197034.945	152207.912	1415.25	EOP; BEGIN RADIUS
PD1103	9607+86.20	55.77 RT	197009.959	152182.919	---	EOP; END RADIUS; MATCH EXISTING
PD1104	9608+60.19	55.75 RT	197009.940	152256.905	---	EOP; END RADIUS; MATCH EXISTING
PD1105	9608+35.18	30.75 RT	197034.954	152231.912	1415.44	EOP; BEGIN RADIUS
PD1106	9608+35.18	28.00 RT	197037.704	152231.914	1415.42	EOP; END RADIUS
PD1107	9608+60.18	3.00 RT	197062.690	152256.928	1415.86	EOP; BEGIN RADIUS
PD1108	9607+86.18	28.00 RT	197037.732	152182.914	---	R = 25'
PD1109	9607+86.18	30.77 RT	197034.959	152182.912	---	R = 25'
PD1110	9608+60.18	30.75 RT	197034.939	152256.912	---	R = 25'
PD1111	9608+60.18	28.00 RT	197037.690	152256.914	---	R = 25'
PD1112	9608+10.55	22.43 RT	197043.292	152207.288	1415.15	FLOWLINE
PD1113	9608+35.81	22.42 RT	197043.286	152232.548	1415.40	FLOWLINE

SEE "MEDIAN TURN-AROUND AND DRIVEWAY PAVING DETAILS" FOR ADDITIONAL INFORMATION



LEGEND

36(D)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	XXXXXX	SAWING ASPHALT REQ'D
BAD	BASE AGGREGATE DENSE 3/4-INCH (SHOULDERS)	CONC-10	HP CONCRETE PAVEMENT 10-INCH (DOWELED & TINED)
⇨	TRAFFIC FLOW	HMA-SR	HMA PAVEMENT (SIDEROAD)
YYYY	SAWING CONCRETE REQ'D	HMA-SH	HMA PAVEMENT (SHOULDERS)
		(XXX)	LAYOUT POINT NUMBER

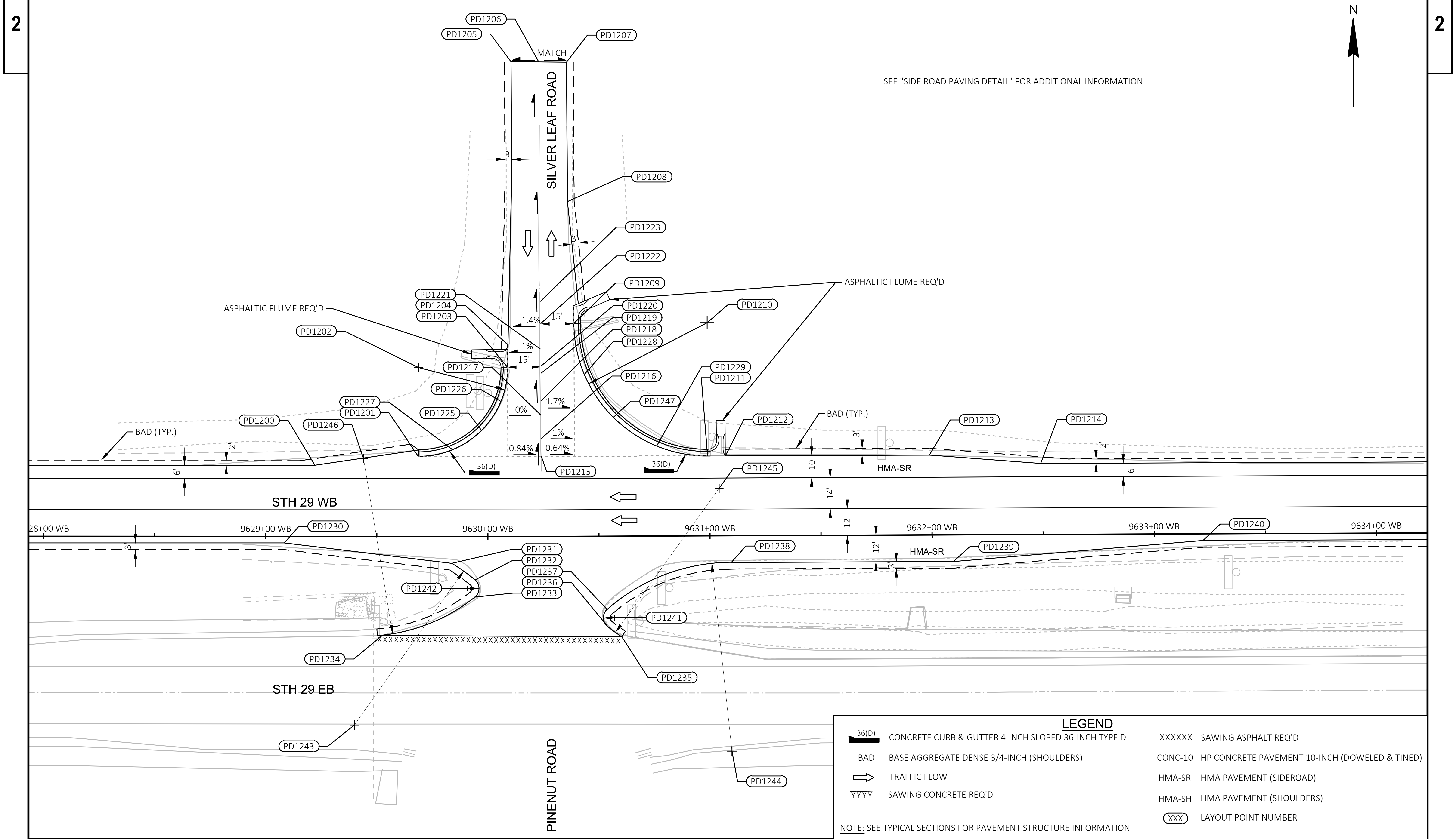
NOTE: SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURE INFORMATION

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN DETAILS	SHEET 15	E

2

2

SEE "SIDE ROAD PAVING DETAIL" FOR ADDITIONAL INFORMATION



LEGEND

36(D)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
BAD	BASE AGGREGATE DENSE 3/4-INCH (SHOULDERS)
⇨	TRAFFIC FLOW
YYYY	SAWING CONCRETE REQ'D
XXXXXX	SAWING ASPHALT REQ'D
CONC-10	HP CONCRETE PAVEMENT 10-INCH (DOWELED & TINED)
HMA-SR	HMA PAVEMENT (SIDEROAD)
HMA-SH	HMA PAVEMENT (SHOULDERS)
(XXX)	LAYOUT POINT NUMBER

NOTE: SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURE INFORMATION

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN DETAILS	SHEET 16 E

STATION & OFFSET TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	REMARKS
PD1200	9629+22.05	32.00 LT	197096.503	154318.819	1392.82	EOP
PD1201	9629+68.72	36.00 LT	197100.476	154365.488	1392.22	EOP; END RADIUS
PD1202	9629+68.72	76.00 LT	197140.476	154365.511	---	R = 40'
PD1203	9630+08.71	76.27 LT	197140.727	154405.510	1390.94	EOP; END RADIUS
PD1204	9630+08.94	86.28 LT	197150.729	154405.740	1390.57	EOP; BEGIN TAPER
PD1205	9630+10.27	213.83 LT	197278.282	154407.147	---	MATCH EXISTING
PD1206	9630+23.73	213.72 LT	197278.172	154419.648	---	MATCH EXISTING
PD1207	9630+36.23	213.57 LT	197278.062	154432.149	---	MATCH EXISTING
PD1208	9630+36.38	150.85 LT	197215.348	154432.542	1387.77	EOP; END TAPER
PD1209	9630+39.01	95.86 LT	197160.364	154435.387	1390.17	EOP; END RADIUS
PD1210	9630+99.01	96.00 LT	197160.741	154495.386	---	R = 60'
PD1211	9630+99.01	36.00 LT	197100.741	154495.619	1391.32	EOP; END RADIUS
PD1212	9631+07.01	36.00 LT	197100.772	154503.619	1391.29	EOP
PD1213	9631+98.93	36.00 LT	197101.129	154595.538	1391.16	EOP; END TAPER
PD1214	9632+48.93	32.00 LT	197097.323	154645.553	1391.34	EOP; BEGIN TAPER
PD1215	9630+24.15	36.14 LT	197100.589	154420.762	1391.83	CL ELEVATION
PD1216	9630+24.13	44.06 LT	197108.509	154420.712	1391.71	CL ELEVATION
PD1217	9630+24.11	54.62 LT	197119.068	154420.646	1391.55	CL ELEVATION
PD1218	9630+24.09	61.10 LT	197125.548	154420.608	1391.45	CL ELEVATION
PD1219	9630+24.06	73.49 LT	197137.938	154420.531	1391.17	CL ELEVATION
PD1220	9630+24.06	76.62 LT	197141.068	154420.512	1391.08	CL ELEVATION
PD1221	9630+24.04	84.38 LT	197148.828	154420.464	1390.85	CL ELEVATION
PD1222	9630+24.01	95.82 LT	197160.268	154420.393	1390.43	CL ELEVATION
PD1223	9630+23.98	105.82 LT	197170.271	154420.324	1390.01	CL ELEVATION
PD1225	9629+97.10	47.81 LT	197112.272	154393.875	1391.81	FLAG ELEVATION

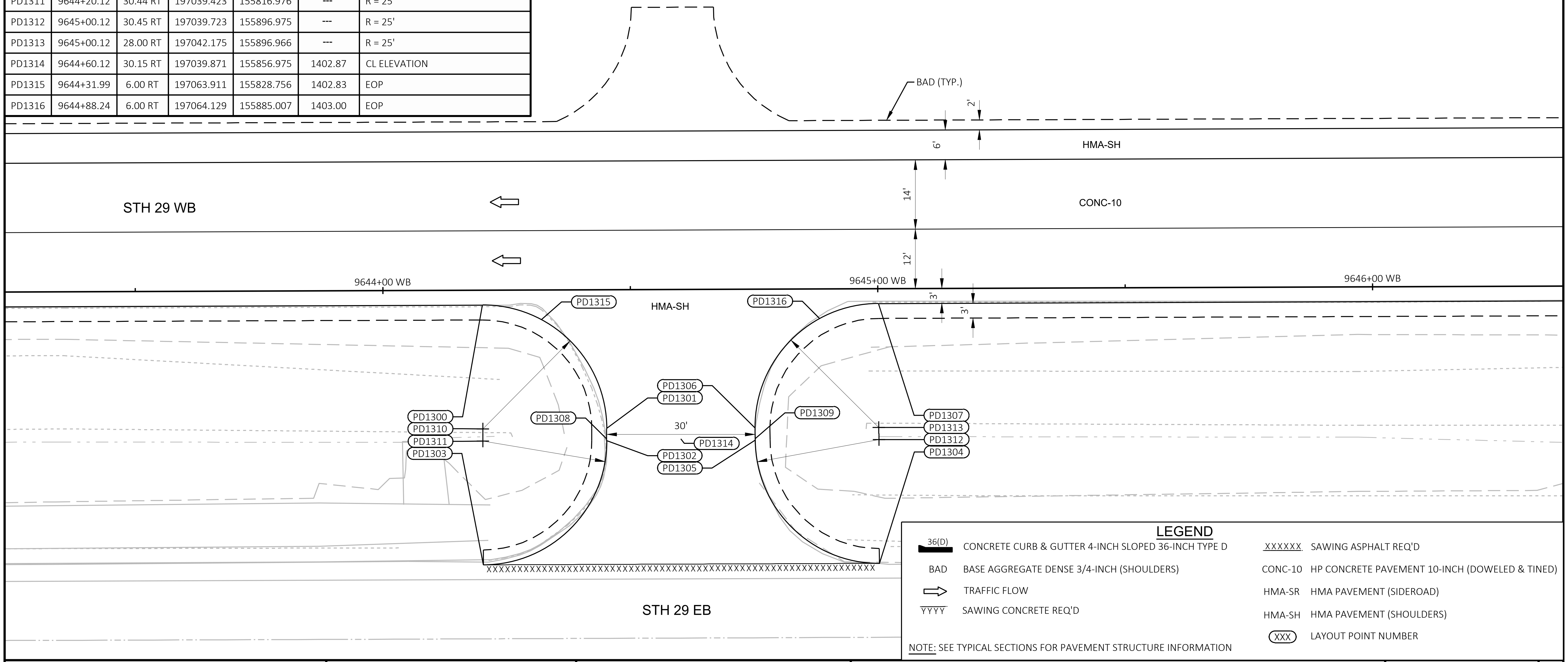
STATION & OFFSET TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	REMARKS
PD1226	9630+05.75	60.88 LT	197125.337	154402.535	1391.40	FLAG ELEVATION
PD1227	9629+84.09	39.07 LT	197103.538	154380.860	1392.02	FLAG ELEVATION
PD1228	9630+43.62	72.94 LT	197137.466	154440.084	1390.86	FLAG ELEVATION
PD1229	9630+76.08	40.55 LT	197105.206	154472.673	1391.41	FLAG ELEVATION
PD1230	9629+08.29	3.00 RT	197061.511	154305.044	1393.10	EOP; BEGIN TAPER
PD1231	9629+83.65	12.17 RT	197052.294	154380.395	1391.94	EOP; END TAPER; BEGIN RADIUS
PD1232	9629+94.11	19.60 RT	197044.866	154390.846	1391.76	EOP; END RADIUS
PD1233	9629+94.04	27.34 RT	197037.118	154390.776	1391.75	EOP; END RADIUS
PD1234	9629+52.45	44.63 RT	197019.854	154349.180	---	EOP; END RADIUS; MATCH EXISTING
PD1235	9630+60.06	45.34 RT	197019.251	154456.991	---	EOP; END RADIUS; MATCH EXISTING
PD1236	9630+53.67	40.64 RT	197023.927	154450.578	1391.74	EOP; END RADIUS
PD1237	9630+53.54	33.00 RT	197031.568	154450.415	1391.55	EOP; END RADIUS
PD1238	9631+09.47	12.00 RT	197052.782	154506.267	1391.32	EOP; BEGIN RADIUS
PD1239	9632+09.47	12.00 RT	197053.170	154606.266	1391.17	EOP; END TAPER
PD1240	9633+21.97	3.00 RT	197062.606	154718.731	1391.79	EOP; BEGIN TAPER
PD1241	9630+56.83	36.76 RT	197027.816	154453.720	---	R = 5'
PD1242	9629+90.91	23.44 RT	197041.020	154387.651	---	R = 5'
PD1243	9629+39.82	85.00 RT	196979.493	154336.520	---	R = 85'
PD1244	9631+09.47	97.00 RT	196967.783	154506.597	---	R = 85'
PD1245	9631+04.19	21.39 LT	197086.155	154500.854	---	R = 80'
PD1246	9629+44.00	35.07 LT	197099.560	154340.767	---	R = 80'
PD1247	9630+56.63	53.52 LT	197118.100	154453.176	1391.14	FLAG ELEVATION

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	REMARKS
PD1300	9644+20.12	3.00 RT	197066.865	155816.870	1402.97	EOP; BEGIN RADIUS
PD1301	9644+45.12	28.00 RT	197041.959	155841.967	1402.65	EOP; END RADIUS
PD1302	9644+45.12	30.45 RT	197039.517	155841.976	1402.63	EOP; BEGIN RADIUS
PD1303	9644+20.11	55.44 RT	197014.424	155817.070	---	EOP; END RADIUS; MATCH EXISTING
PD1304	9645+00.11	55.45 RT	197014.723	155897.069	---	EOP; END RADIUS; MATCH EXISTING
PD1305	9644+75.12	30.45 RT	197039.629	155871.976	1402.87	EOP; BEGIN RADIUS
PD1306	9644+75.12	28.00 RT	197042.082	155871.966	1402.60	EOP; END RADIUS
PD1307	9645+00.12	3.00 RT	197067.175	155896.869	1403.20	EOP; BEGIN RADIUS
PD1308	9644+45.12	30.12 RT	197039.838	155841.975	1402.63	FLOWLINE
PD1309	9644+75.12	30.17 RT	197039.904	155871.975	1402.57	FLOWLINE
PD1310	9644+20.12	28.00 RT	197041.865	155816.967	---	R = 25'
PD1311	9644+20.12	30.44 RT	197039.423	155816.976	---	R = 25'
PD1312	9645+00.12	30.45 RT	197039.723	155896.975	---	R = 25'
PD1313	9645+00.12	28.00 RT	197042.175	155896.966	---	R = 25'
PD1314	9644+60.12	30.15 RT	197039.871	155856.975	1402.87	CL ELEVATION
PD1315	9644+31.99	6.00 RT	197063.911	155828.756	1402.83	EOP
PD1316	9644+88.24	6.00 RT	197064.129	155885.007	1403.00	EOP

N

SEE "MEDIAN TURN-AROUND AND DRIVEWAY PAVING DETAILS" FOR ADDITIONAL INFORMATION



LEGEND

36(D)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	XXXXXX	SAWING ASPHALT REQ'D
BAD	BASE AGGREGATE DENSE 3/4-INCH (SHOULDERS)	CONC-10	HP CONCRETE PAVEMENT 10-INCH (DOWELED & TINED)
⇨	TRAFFIC FLOW	HMA-SR	HMA PAVEMENT (SIDEROAD)
YYYY	SAWING CONCRETE REQ'D	HMA-SH	HMA PAVEMENT (SHOULDERS)
		(XXX)	LAYOUT POINT NUMBER

NOTE: SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURE INFORMATION

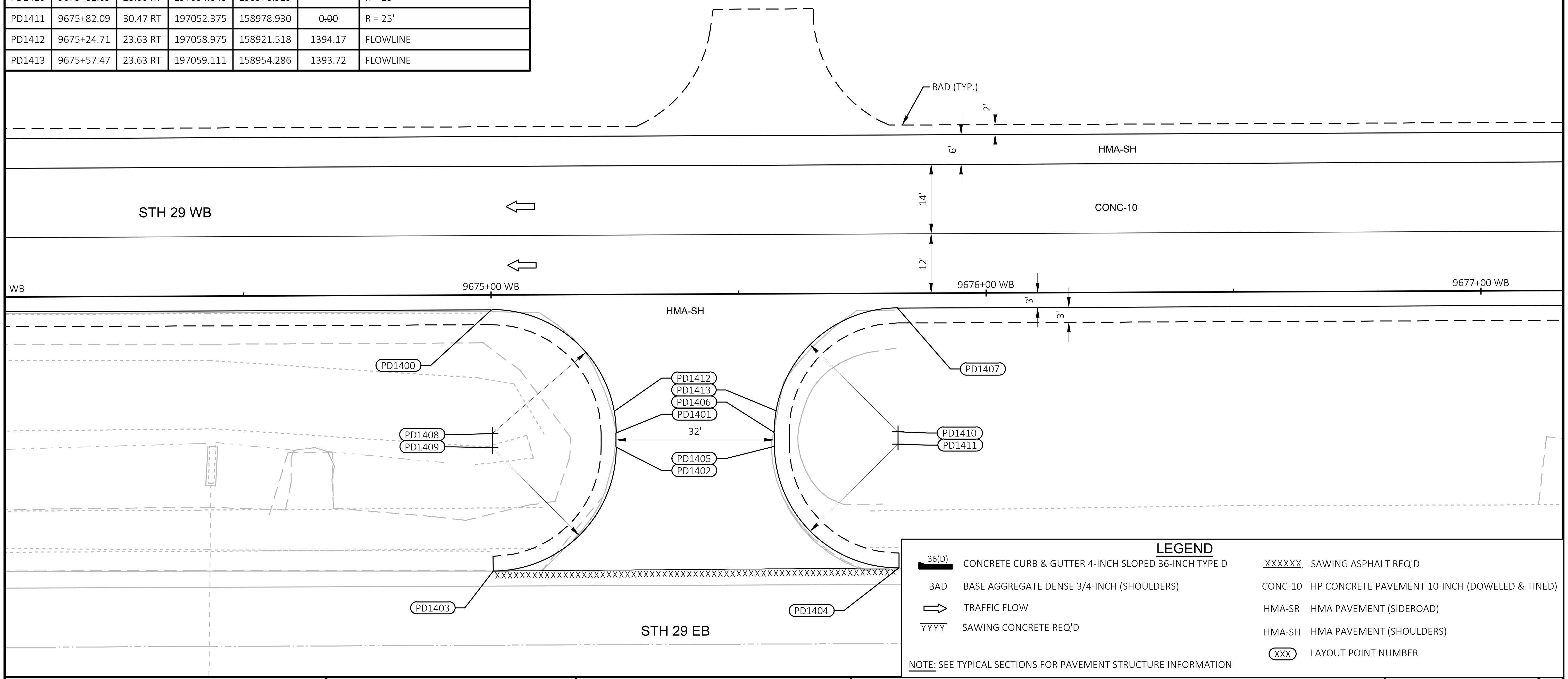
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN DETAILS	SHEET 18 E

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	REMARKS
PD1400	9675+00.09	3.00 RT	197079.507	158896.816	1395.16	EOP; BEGIN RADIUS
PD1401	9675+25.09	28.00 RT	197054.613	158921.920	1394.19	EOP; END RADIUS
PD1402	9675+25.09	30.82 RT	197051.795	158921.932	1394.22	EOP; BEGIN RADIUS
PD1403	9675+00.19	55.79 RT	197026.723	158897.131	---	EOP; END RADIUS; MATCH EXISTING
PD1404	9675+82.19	55.47 RT	197027.375	158979.129	---	EOP; END RADIUS; MATCH EXISTING
PD1405	9675+57.09	30.84 RT	197051.901	158953.932	1393.77	EOP; BEGIN RADIUS
PD1406	9675+57.09	28.00 RT	197054.742	158953.920	1393.75	EOP; END RADIUS
PD1407	9675+82.09	3.00 RT	197079.848	158978.815	1393.79	EOP; BEGIN RADIUS
PD1408	9675+00.09	28.00 RT	197054.507	158896.920	---	R = 25'
PD1409	9675+00.09	30.82 RT	197051.689	158896.932	---	R = 25'
PD1410	9675+82.09	28.00 RT	197054.848	158978.919	---	R = 25'
PD1411	9675+82.09	30.47 RT	197052.375	158978.930	0.00	R = 25'
PD1412	9675+24.71	23.63 RT	197058.975	158921.518	1394.17	FLOWLINE
PD1413	9675+57.47	23.63 RT	197059.111	158954.286	1393.72	FLOWLINE

N

SEE "MEDIAN TURN-AROUND AND DRIVEWAY PAVING DETAILS" FOR ADDITIONAL INFORMATION



LEGEND

36(D)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	XXXXXX	SAWING ASPHALT REQ'D
BAD	BASE AGGREGATE DENSE 3/4-INCH (SHOULDERS)	CONC-10	HP CONCRETE PAVEMENT 10-INCH (DOWELED & TINED)
⇨	TRAFFIC FLOW	HMA-SR	HMA PAVEMENT (SIDEROAD)
YYYY	SAWING CONCRETE REQ'D	HMA-SH	HMA PAVEMENT (SHOULDERS)
		(XXX)	LAYOUT POINT NUMBER

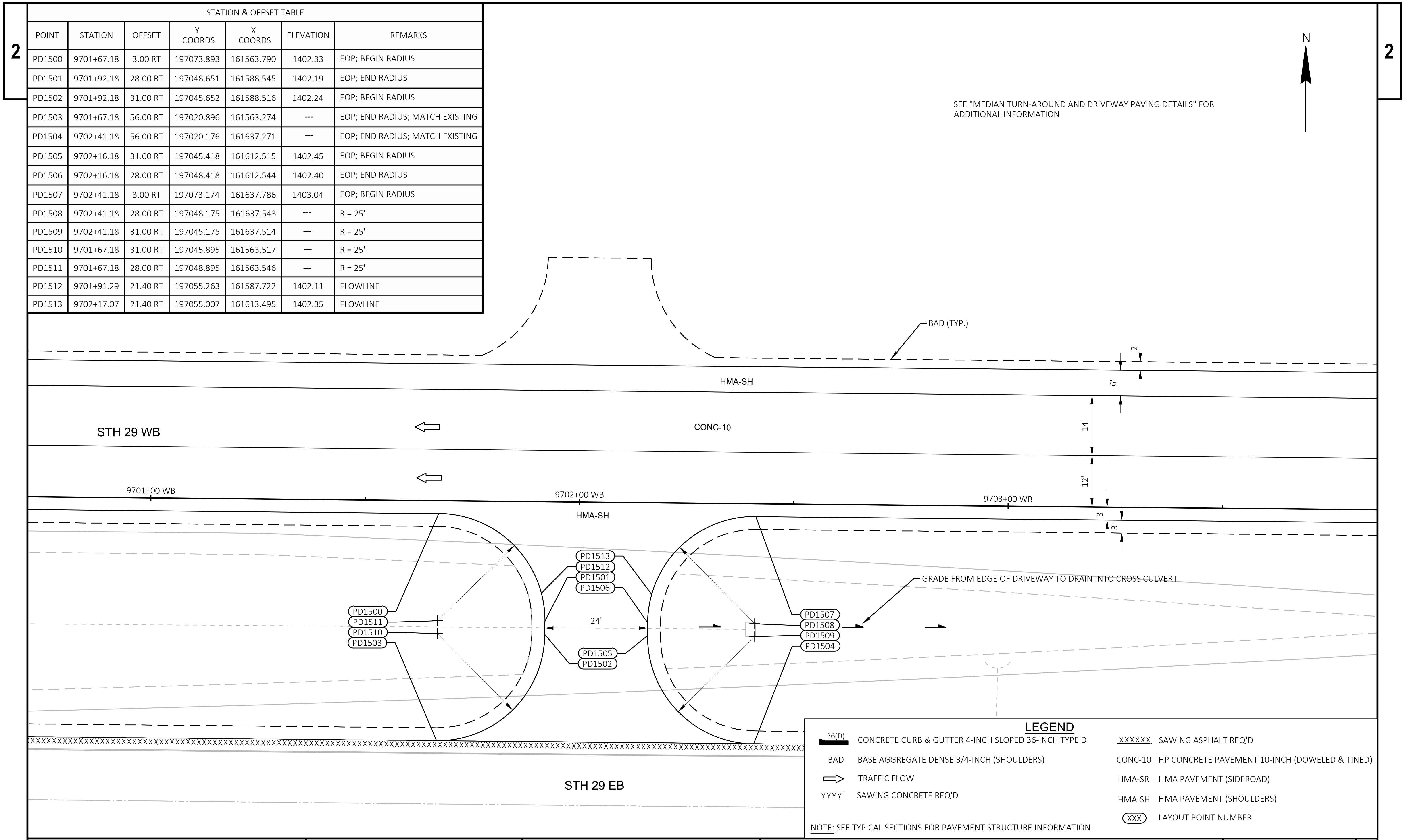
NOTE: SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURE INFORMATION

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN DETAILS	SHEET 19 E

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	REMARKS
PD1500	9701+67.18	3.00 RT	197073.893	161563.790	1402.33	EOP; BEGIN RADIUS
PD1501	9701+92.18	28.00 RT	197048.651	161588.545	1402.19	EOP; END RADIUS
PD1502	9701+92.18	31.00 RT	197045.652	161588.516	1402.24	EOP; BEGIN RADIUS
PD1503	9701+67.18	56.00 RT	197020.896	161563.274	---	EOP; END RADIUS; MATCH EXISTING
PD1504	9702+41.18	56.00 RT	197020.176	161637.271	---	EOP; END RADIUS; MATCH EXISTING
PD1505	9702+16.18	31.00 RT	197045.418	161612.515	1402.45	EOP; BEGIN RADIUS
PD1506	9702+16.18	28.00 RT	197048.418	161612.544	1402.40	EOP; END RADIUS
PD1507	9702+41.18	3.00 RT	197073.174	161637.786	1403.04	EOP; BEGIN RADIUS
PD1508	9702+41.18	28.00 RT	197048.175	161637.543	---	R = 25'
PD1509	9702+41.18	31.00 RT	197045.175	161637.514	---	R = 25'
PD1510	9701+67.18	31.00 RT	197045.895	161563.517	---	R = 25'
PD1511	9701+67.18	28.00 RT	197048.895	161563.546	---	R = 25'
PD1512	9701+91.29	21.40 RT	197055.263	161587.722	1402.11	FLOWLINE
PD1513	9702+17.07	21.40 RT	197055.007	161613.495	1402.35	FLOWLINE

SEE "MEDIAN TURN-AROUND AND DRIVEWAY PAVING DETAILS" FOR ADDITIONAL INFORMATION



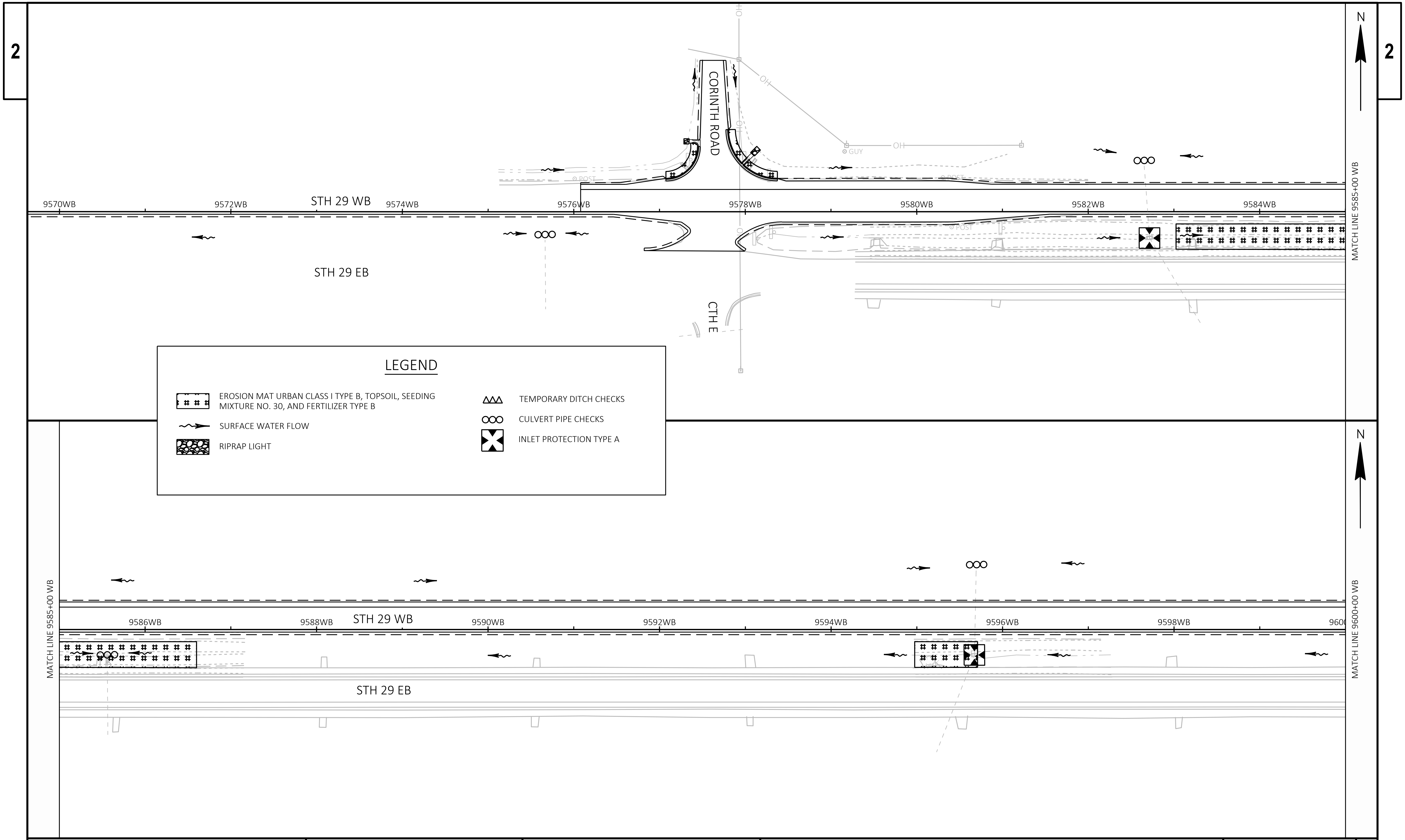
LEGEND

36(D)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	XXXXXX	SAWING ASPHALT REQ'D
BAD	BASE AGGREGATE DENSE 3/4-INCH (SHOULDERS)	CONC-10	HP CONCRETE PAVEMENT 10-INCH (DOWELED & TINED)
⇨	TRAFFIC FLOW	HMA-SR	HMA PAVEMENT (SIDEROAD)
YYYY	SAWING CONCRETE REQ'D	HMA-SH	HMA PAVEMENT (SHOULDERS)
		(XXX)	LAYOUT POINT NUMBER

NOTE: SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURE INFORMATION

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN DETAILS	SHEET 20	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\021201-PD.DWG
LAYOUT NAME - 021206-pd
PLOT DATE : 2/19/2026 8:28 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:20 FT

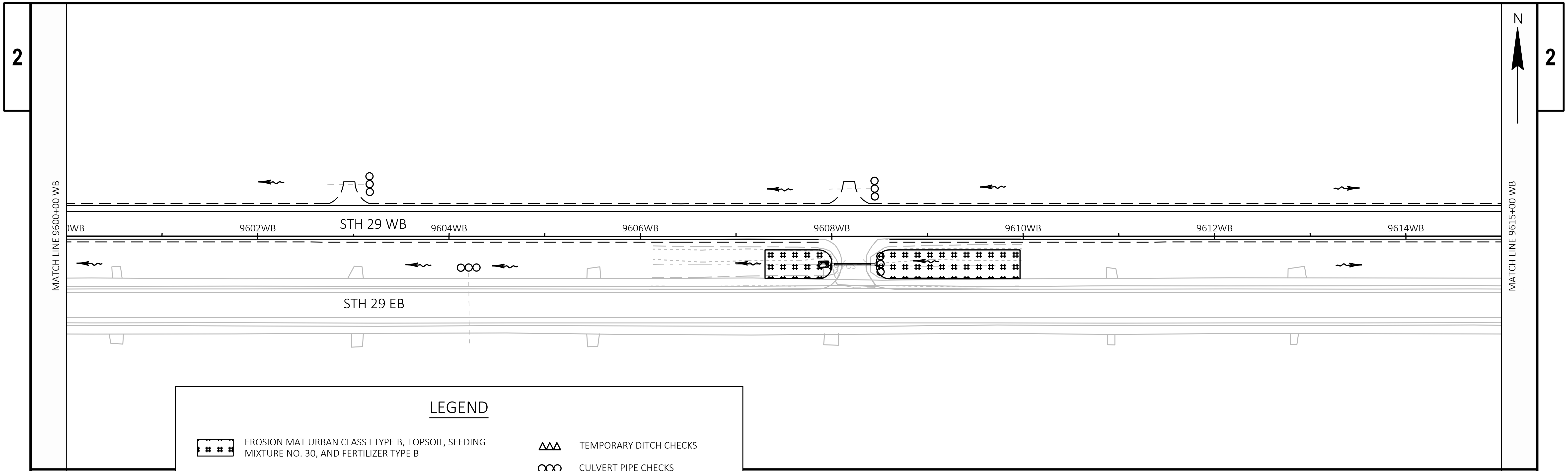


LEGEND

▨	EROSION MAT URBAN CLASS I TYPE B, TOPSOIL, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B
⤳	SURFACE WATER FLOW
▩	RIPRAP LIGHT
△△△	TEMPORARY DITCH CHECKS
○○○	CULVERT PIPE CHECKS
☒	INLET PROTECTION TYPE A

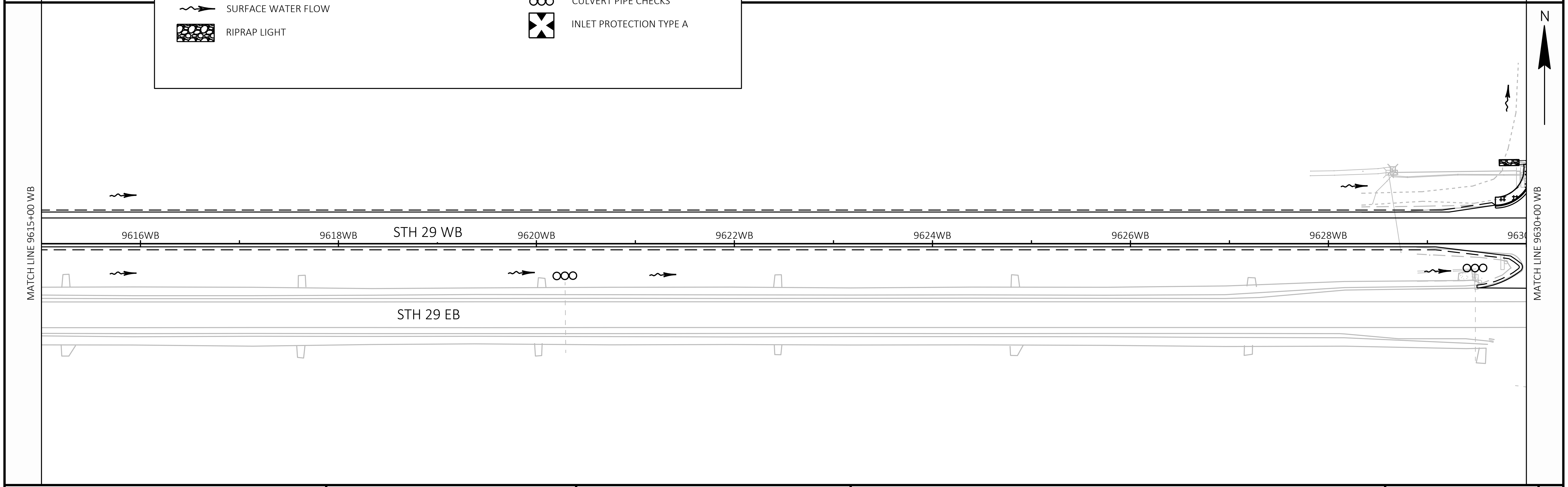
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	EROSION CONTROL	SHEET 21	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\022101-EC.DWG
LAYOUT NAME - 022101-ec
PLOT DATE : 4/10/2026 4:21 PM PLOT BY : JACK, ROBERT A. PLOT NAME : PLOT SCALE : 1 IN:100 FT

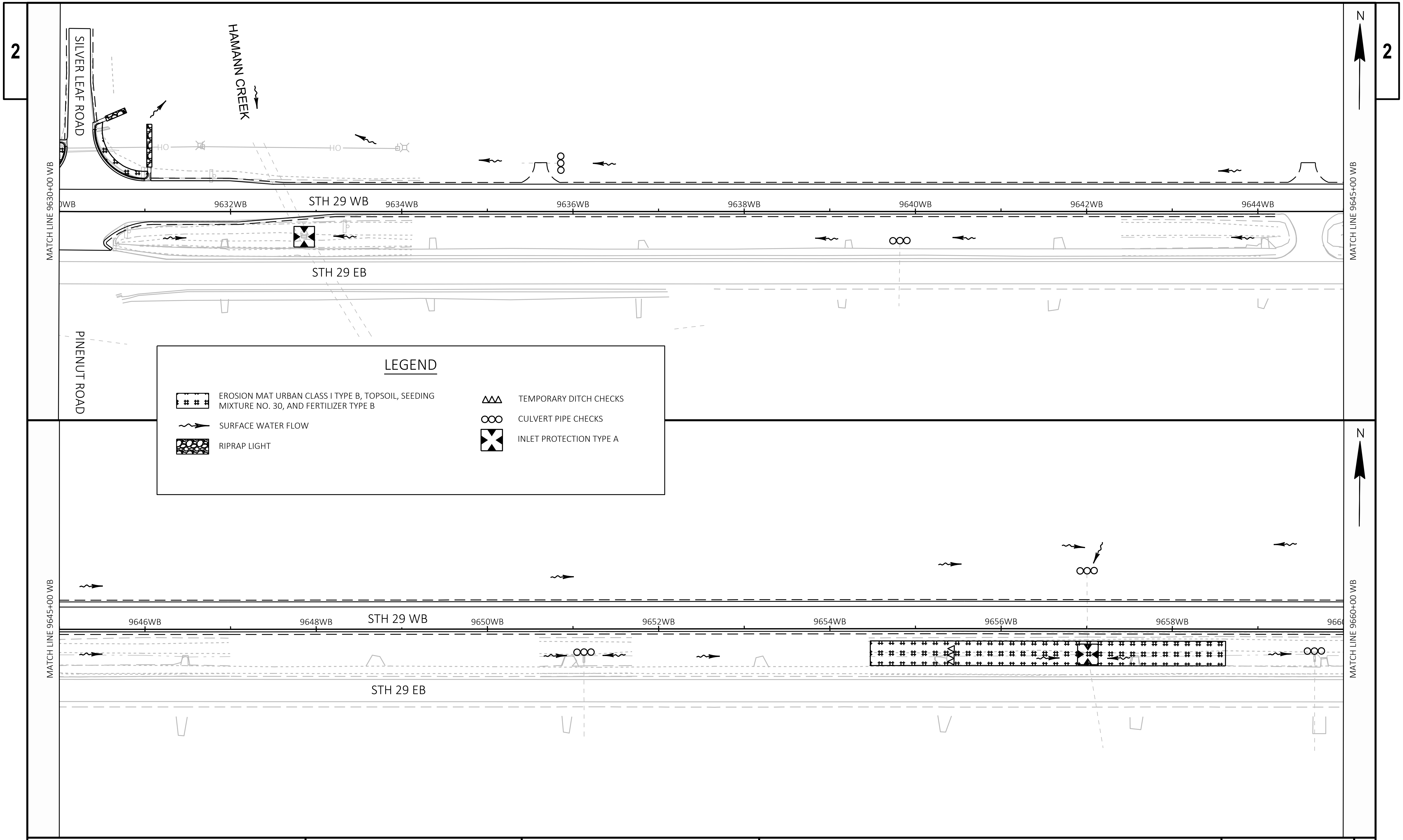


LEGEND

▨	EROSION MAT URBAN CLASS I TYPE B, TOPSOIL, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B	△△△	TEMPORARY DITCH CHECKS
~>	SURFACE WATER FLOW	○○○	CULVERT PIPE CHECKS
▩	RIPRAP LIGHT	☒	INLET PROTECTION TYPE A



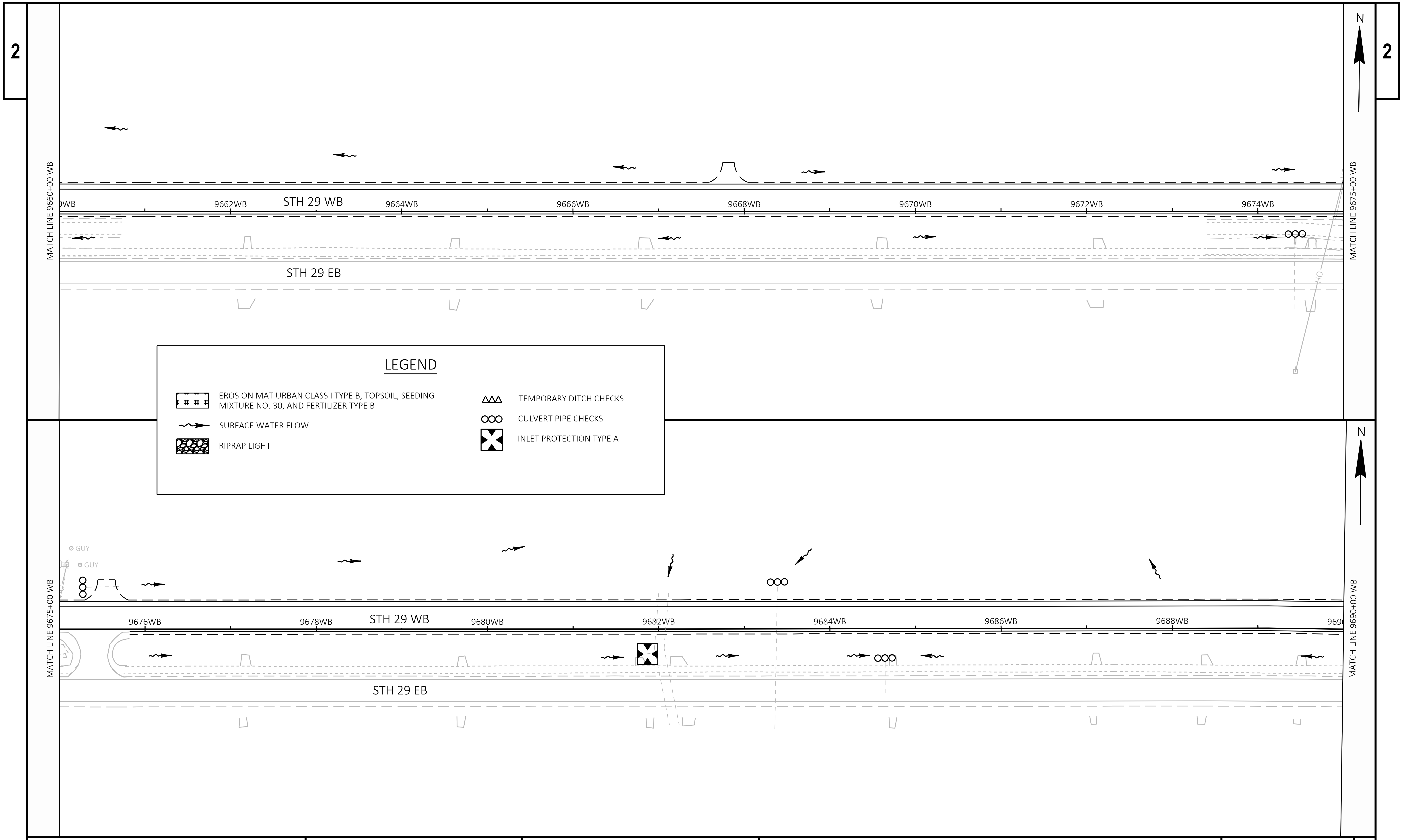
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	EROSION CONTROL	SHEET 22	E



LEGEND

⌗ ⌗ ⌗	EROSION MAT URBAN CLASS I TYPE B, TOPSOIL, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B
~→	SURFACE WATER FLOW
▨	RIPRAP LIGHT
△△△	TEMPORARY DITCH CHECKS
○○○	CULVERT PIPE CHECKS
☒	INLET PROTECTION TYPE A

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	EROSION CONTROL	SHEET 23	E

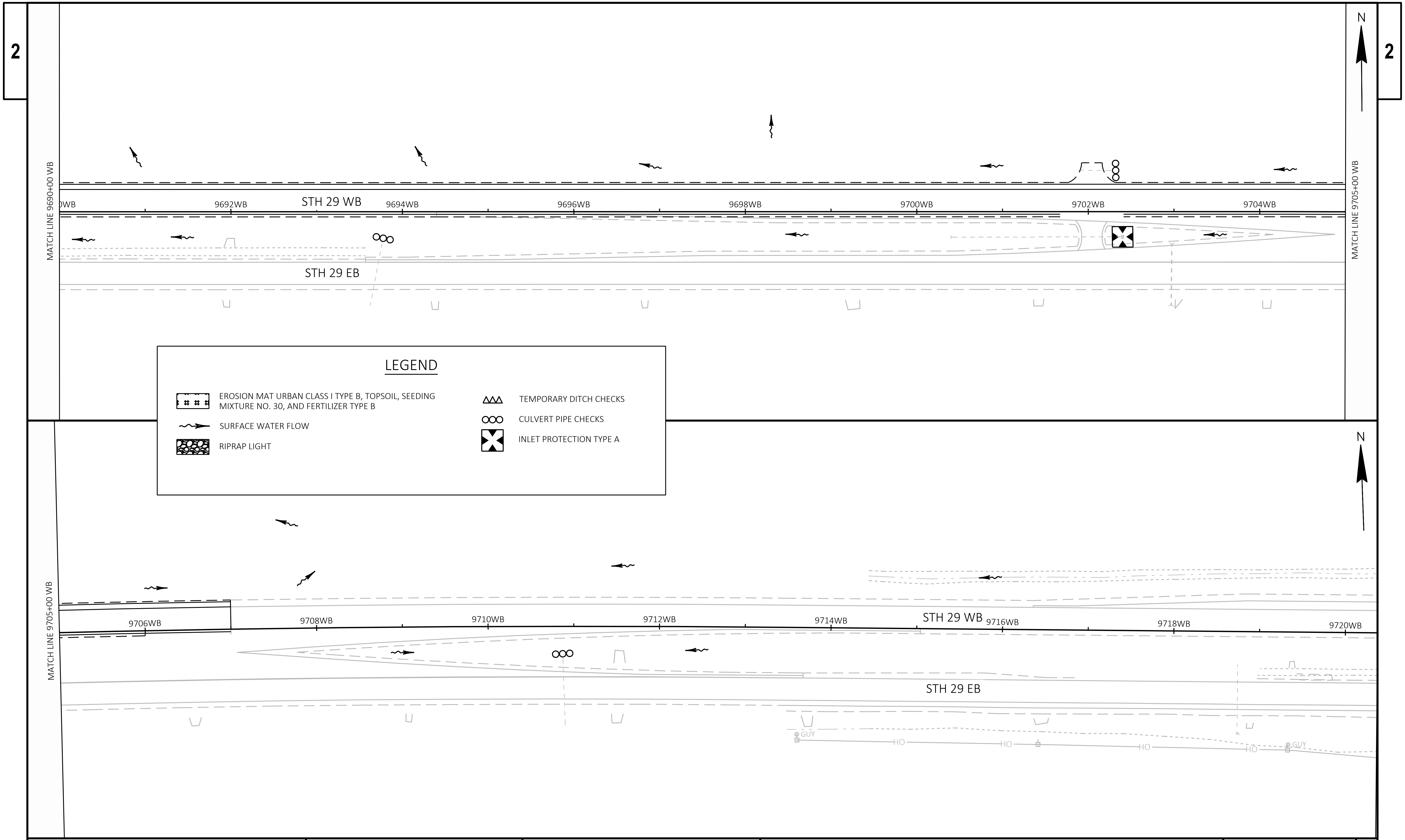


LEGEND

- ▨ EROSION MAT URBAN CLASS I TYPE B, TOPSOIL, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B
- ~→ SURFACE WATER FLOW
- ▨ RIPRAP LIGHT
- △△△ TEMPORARY DITCH CHECKS
- ○○○ CULVERT PIPE CHECKS
- ☒ INLET PROTECTION TYPE A

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	EROSION CONTROL	SHEET	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\022101-EC.DWG
LAYOUT NAME - 022104-ec
PLOT DATE : 4/10/2026 4:21 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



LEGEND

▨ EROSION MAT URBAN CLASS I TYPE B, TOPSOIL, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B

~~> SURFACE WATER FLOW

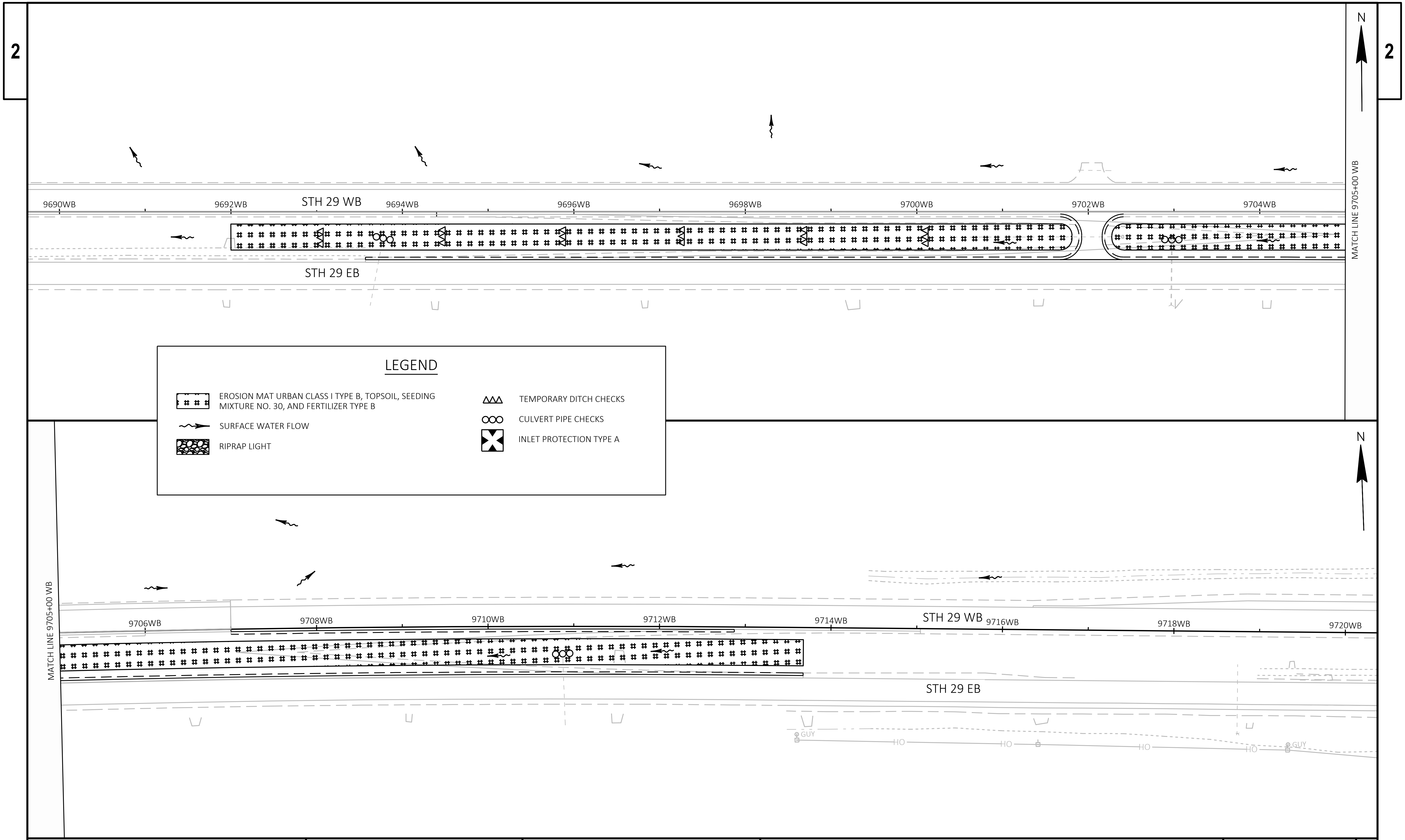
▩ RIPRAP LIGHT

△△△ TEMPORARY DITCH CHECKS

○○○ CULVERT PIPE CHECKS

☒ INLET PROTECTION TYPE A

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	EROSION CONTROL	SHEET 25 E



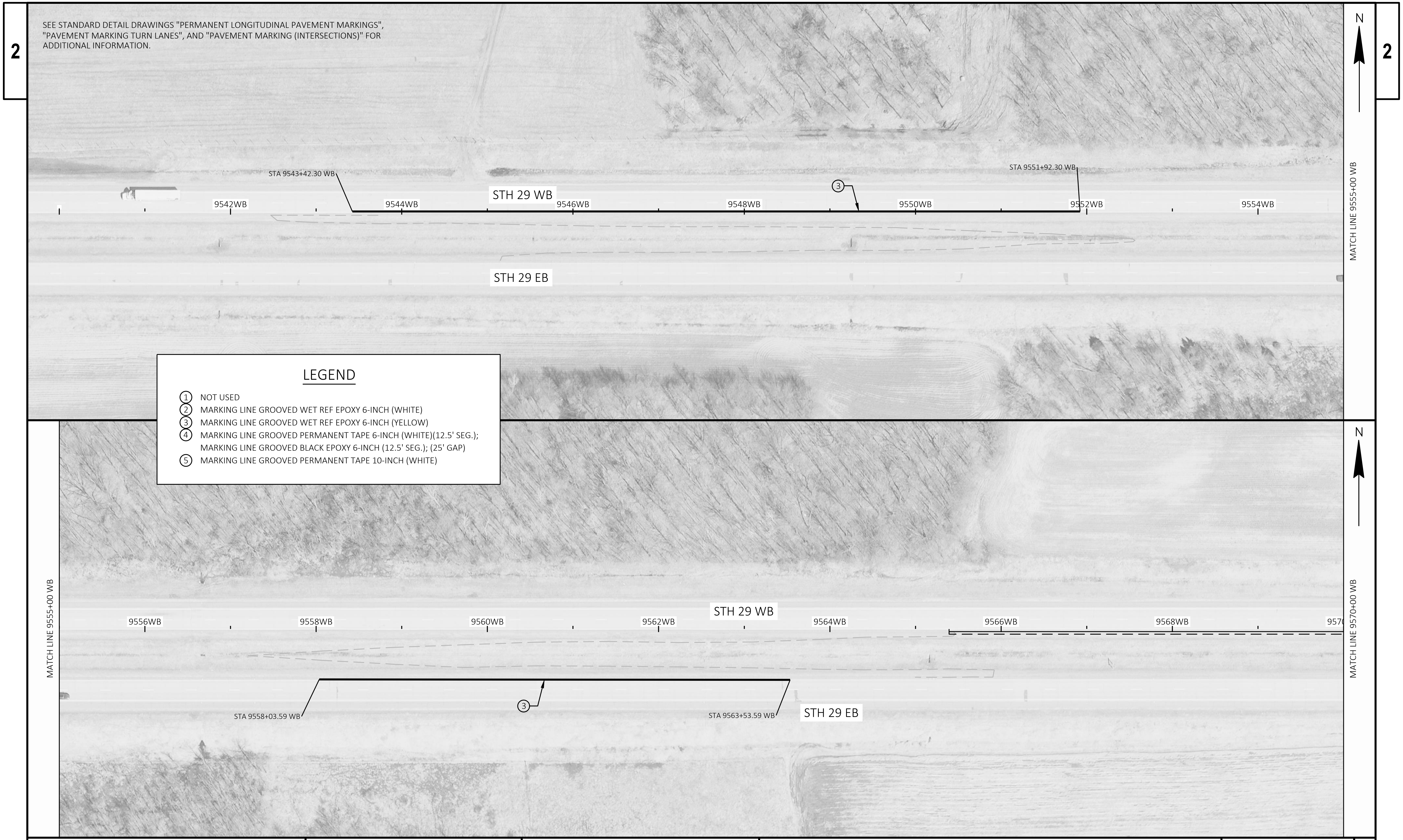
LEGEND

⌗ ⌗ ⌗	EROSION MAT URBAN CLASS I TYPE B, TOPSOIL, SEEDING MIXTURE NO. 30, AND FERTILIZER TYPE B
~→	SURFACE WATER FLOW
▩	RIPRAP LIGHT
△△△	TEMPORARY DITCH CHECKS
○○○	CULVERT PIPE CHECKS
☒	INLET PROTECTION TYPE A

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	EROSION CONTROL - CROSSOVER REMOVAL	SHEET	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\022201-EC.DWG
LAYOUT NAME - 022201-ec
PLOT DATE : 4/10/2026 4:23 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

SEE STANDARD DETAIL DRAWINGS "PERMANENT LONGITUDINAL PAVEMENT MARKINGS", "PAVEMENT MARKING TURN LANES", AND "PAVEMENT MARKING (INTERSECTIONS)" FOR ADDITIONAL INFORMATION.

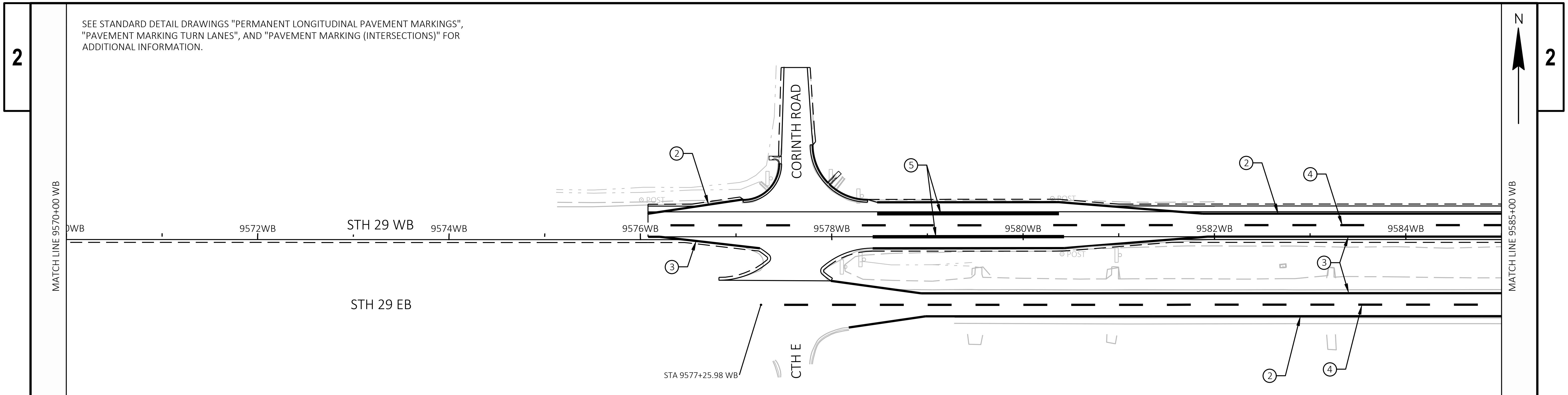


LEGEND

① NOT USED
② MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
③ MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
④ MARKING LINE GROOVED PERMANENT TAPE 6-INCH (WHITE)(12.5' SEG.); MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' SEG.); (25' GAP)
⑤ MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)

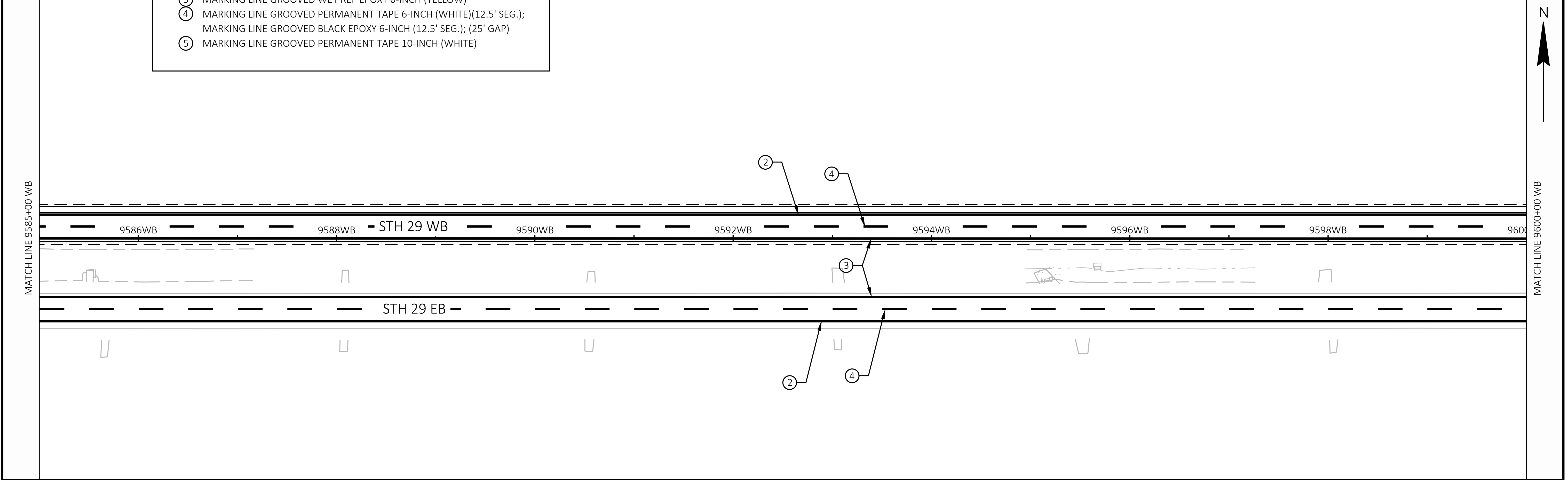
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PAVEMENT MARKING	SHEET 27	E

SEE STANDARD DETAIL DRAWINGS "PERMANENT LONGITUDINAL PAVEMENT MARKINGS", "PAVEMENT MARKING TURN LANES", AND "PAVEMENT MARKING (INTERSECTIONS)" FOR ADDITIONAL INFORMATION.



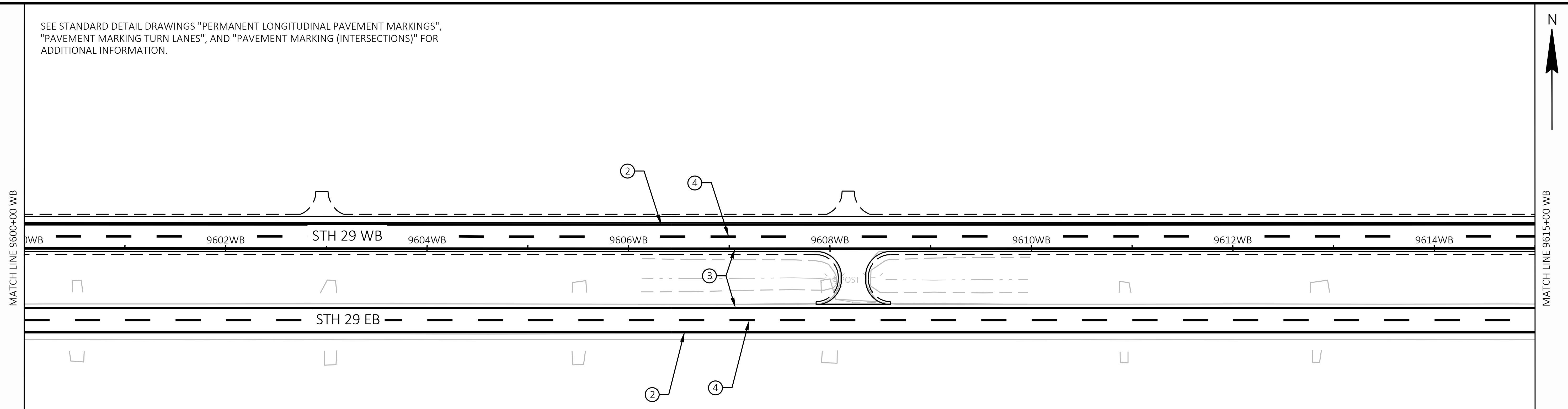
LEGEND

1. ① NOT USED
2. ② MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
3. ③ MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
4. ④ MARKING LINE GROOVED PERMANENT TAPE 6-INCH (WHITE)(12.5' SEG.); MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' SEG.); (25' GAP)
5. ⑤ MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)



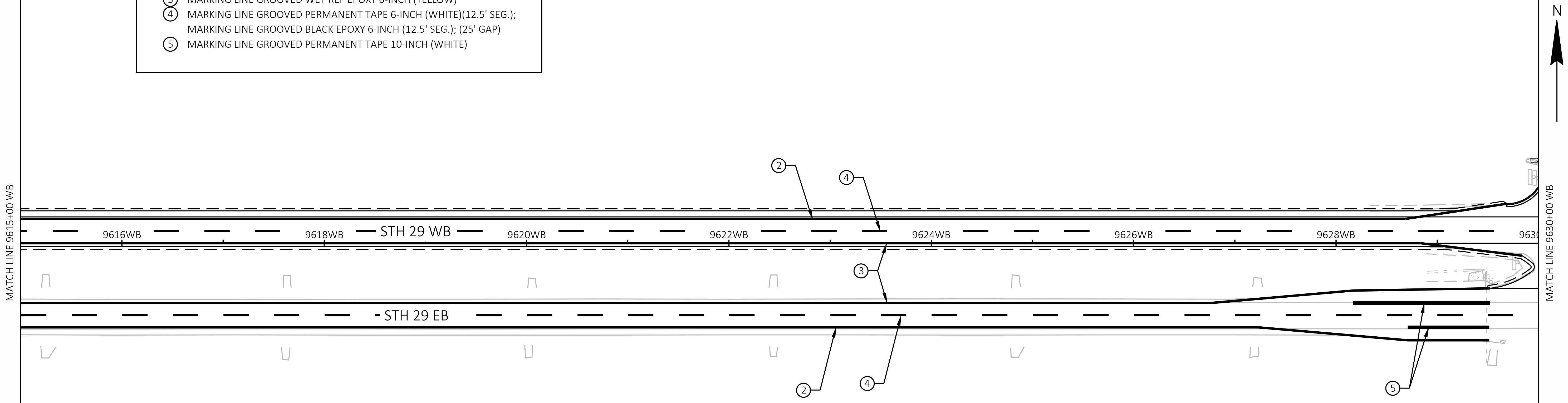
2

SEE STANDARD DETAIL DRAWINGS "PERMANENT LONGITUDINAL PAVEMENT MARKINGS", "PAVEMENT MARKING TURN LANES", AND "PAVEMENT MARKING (INTERSECTIONS)" FOR ADDITIONAL INFORMATION.



LEGEND

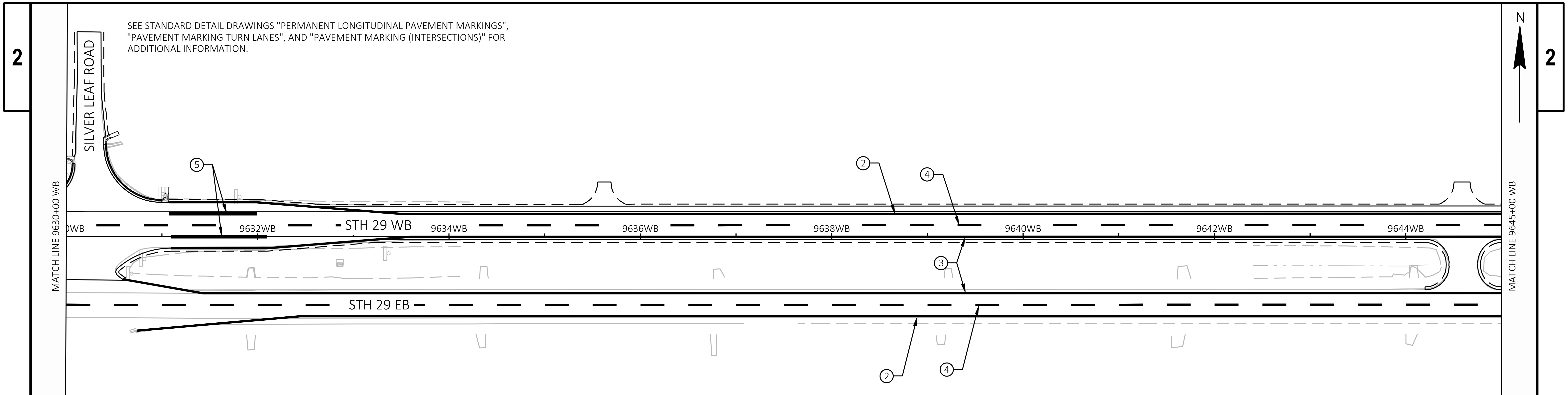
- ① NOT USED
- ② MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- ③ MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
- ④ MARKING LINE GROOVED PERMANENT TAPE 6-INCH (WHITE)(12.5' SEG.); MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' SEG.); (25' GAP)
- ⑤ MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)



PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | PAVEMENT MARKING | SHEET 29 | E

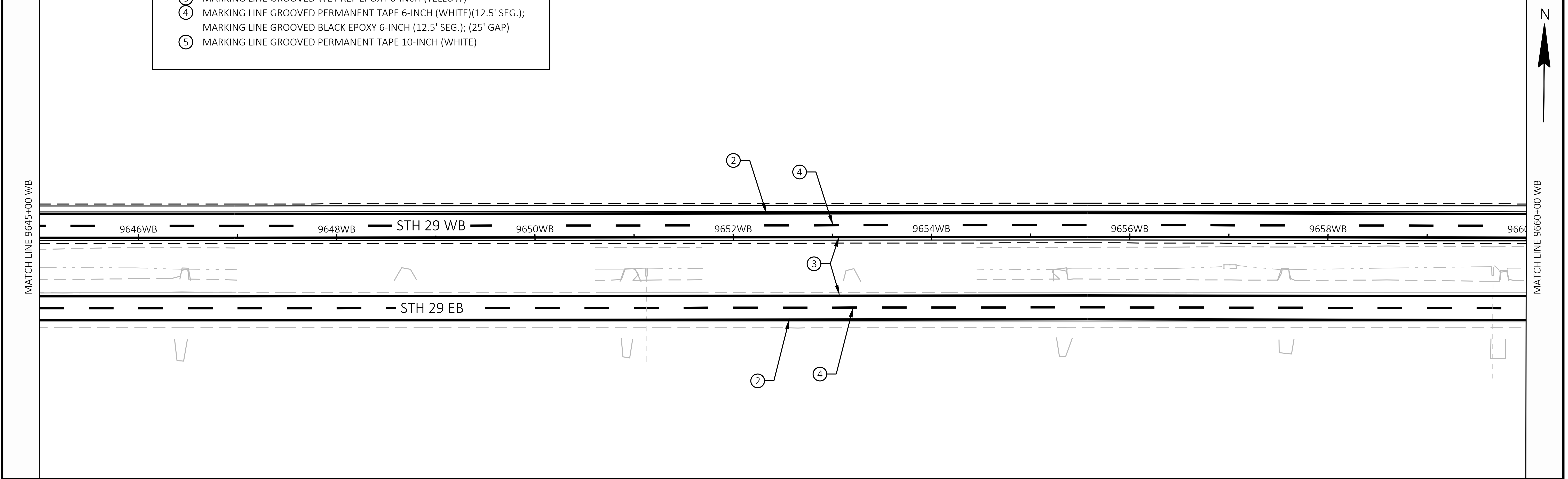
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\024501-PM.DWG
LAYOUT NAME - 024503-pm
PLOT DATE : 4/8/2026 8:23 AM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

SEE STANDARD DETAIL DRAWINGS "PERMANENT LONGITUDINAL PAVEMENT MARKINGS", "PAVEMENT MARKING TURN LANES", AND "PAVEMENT MARKING (INTERSECTIONS)" FOR ADDITIONAL INFORMATION.



LEGEND

1. ① NOT USED
2. ② MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
3. ③ MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
4. ④ MARKING LINE GROOVED PERMANENT TAPE 6-INCH (WHITE)(12.5' SEG.); MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' SEG.); (25' GAP)
5. ⑤ MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)

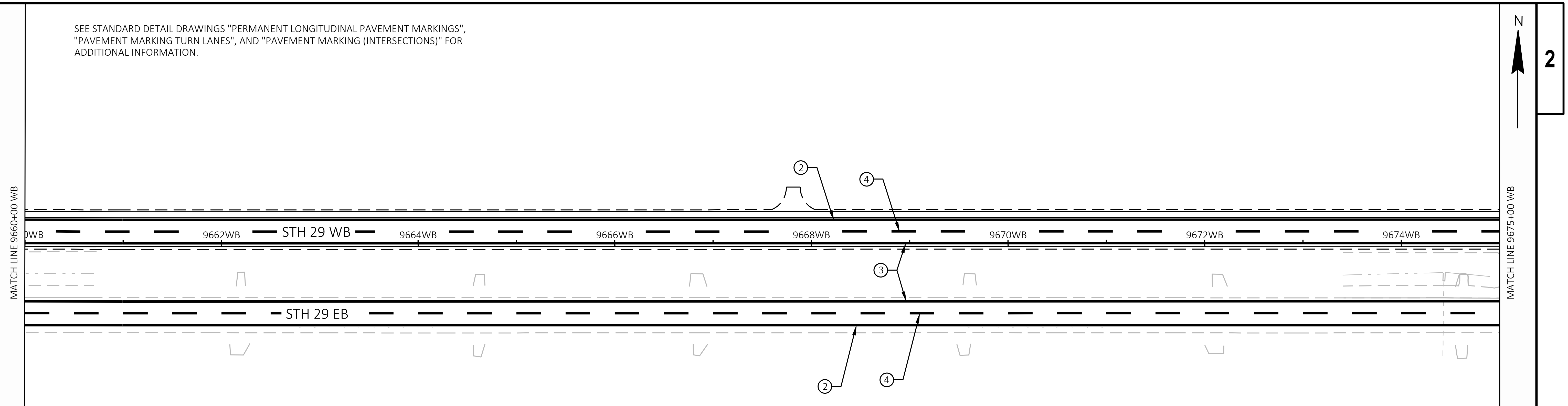


PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PAVEMENT MARKING	SHEET 30 E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\024501-PM.DWG
LAYOUT NAME - 024504-pm
PLOT DATE : 4/8/2026 8:23 AM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

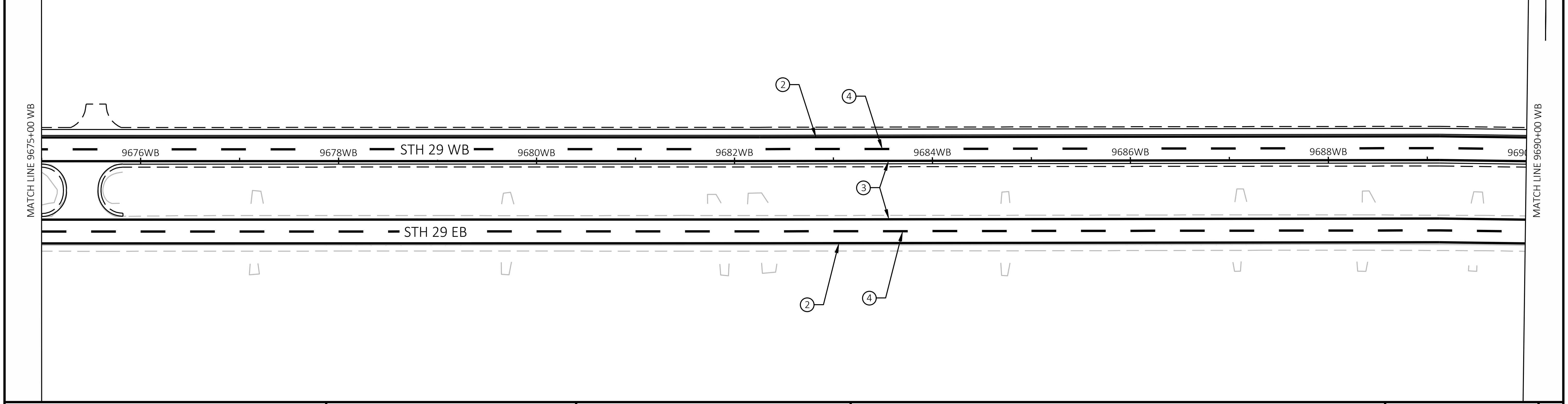
2

SEE STANDARD DETAIL DRAWINGS "PERMANENT LONGITUDINAL PAVEMENT MARKINGS", "PAVEMENT MARKING TURN LANES", AND "PAVEMENT MARKING (INTERSECTIONS)" FOR ADDITIONAL INFORMATION.



LEGEND

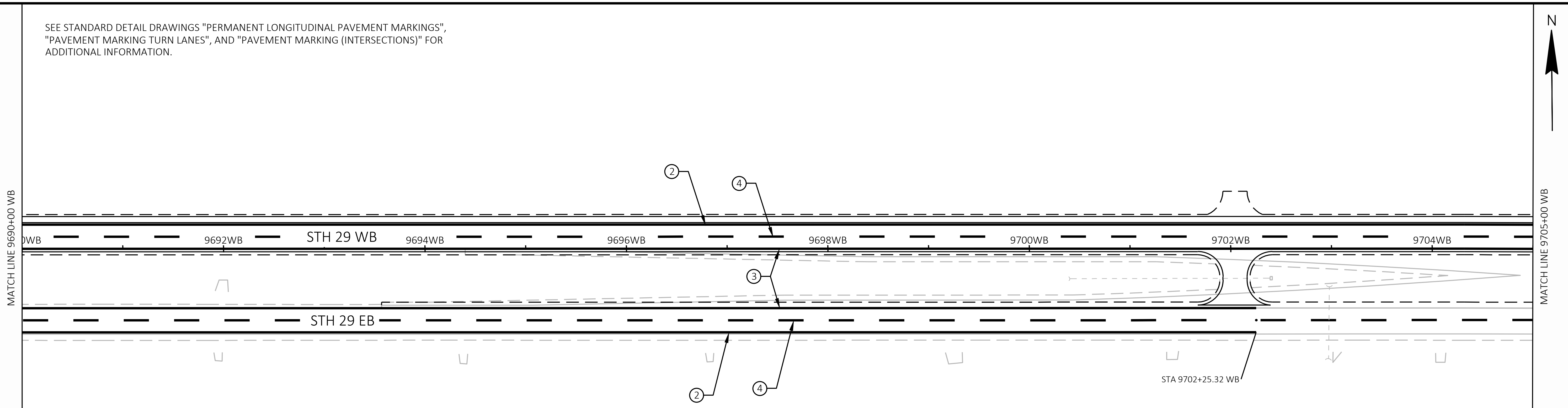
① NOT USED
② MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
③ MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
④ MARKING LINE GROOVED PERMANENT TAPE 6-INCH (WHITE)(12.5' SEG.); MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' SEG.); (25' GAP)
⑤ MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)



PROJECT NO: 1053-07-85
HWY: STH 29
COUNTY: MARATHON
PAVEMENT MARKING
SHEET 31
E

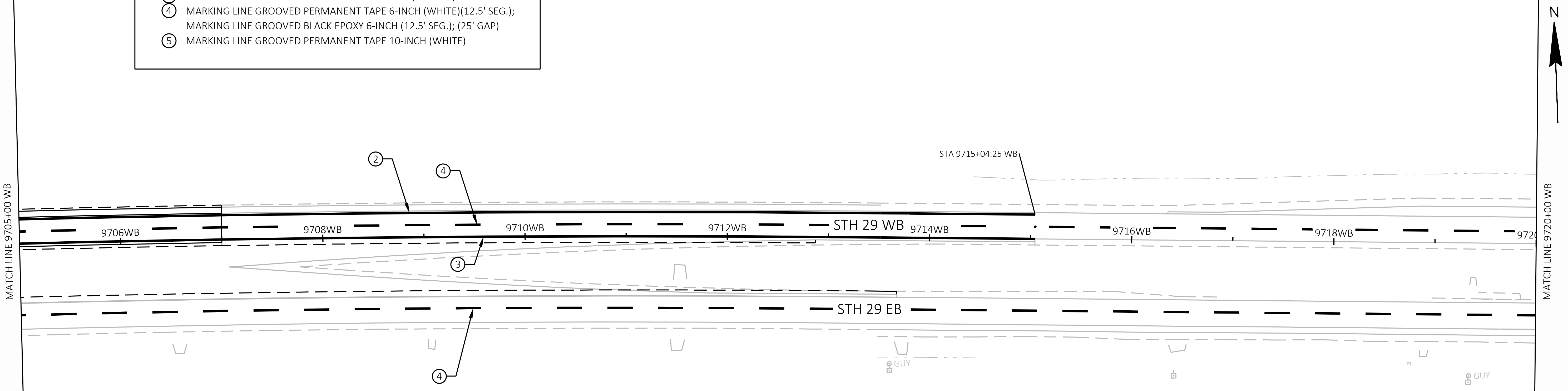
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\024501-PM.DWG
LAYOUT NAME - 024505-pm
PLOT DATE : 4/8/2026 8:23 AM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

SEE STANDARD DETAIL DRAWINGS "PERMANENT LONGITUDINAL PAVEMENT MARKINGS", "PAVEMENT MARKING TURN LANES", AND "PAVEMENT MARKING (INTERSECTIONS)" FOR ADDITIONAL INFORMATION.



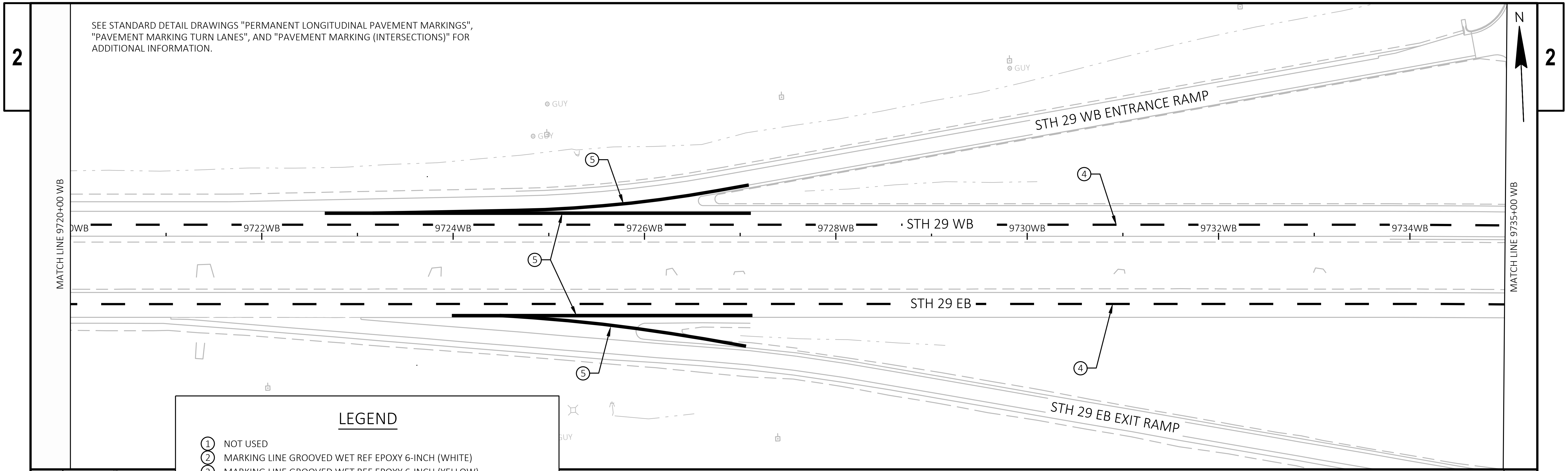
LEGEND

① NOT USED
② MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
③ MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
④ MARKING LINE GROOVED PERMANENT TAPE 6-INCH (WHITE)(12.5' SEG.); MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' SEG.); (25' GAP)
⑤ MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)



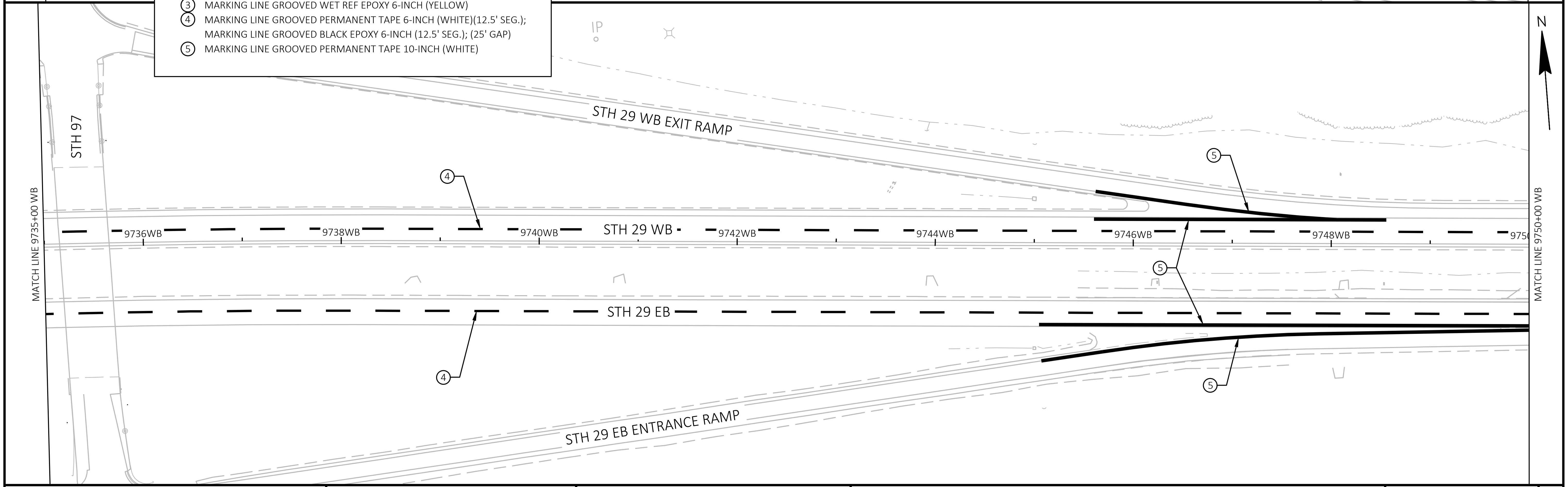
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PAVEMENT MARKING	SHEET 32	E

SEE STANDARD DETAIL DRAWINGS "PERMANENT LONGITUDINAL PAVEMENT MARKINGS", "PAVEMENT MARKING TURN LANES", AND "PAVEMENT MARKING (INTERSECTIONS)" FOR ADDITIONAL INFORMATION.



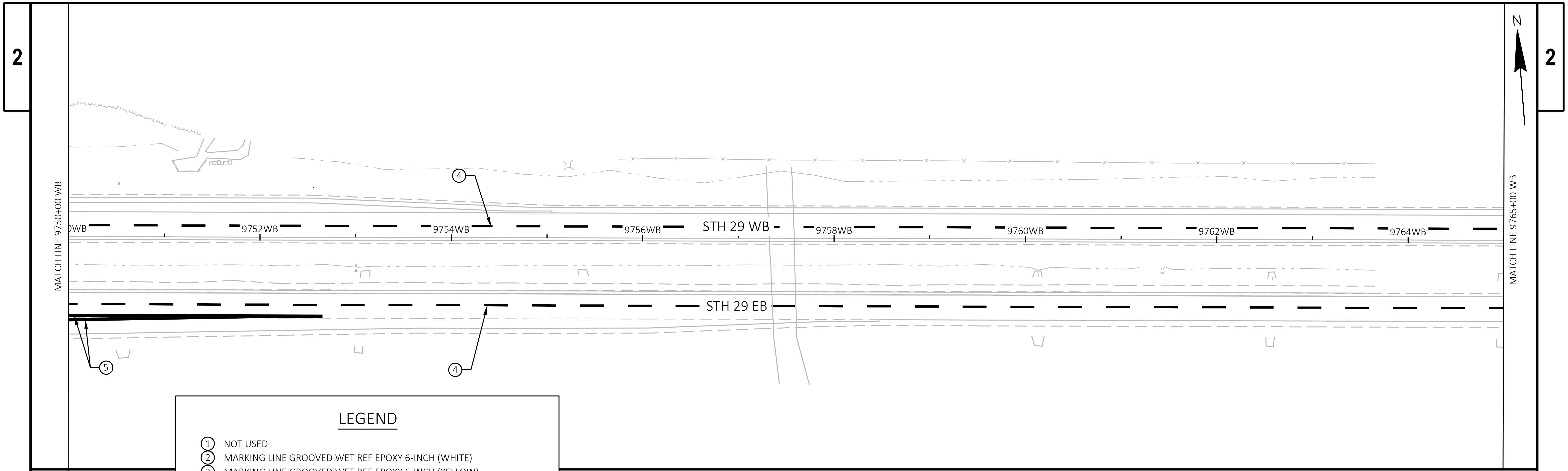
LEGEND

① NOT USED
② MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
③ MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
④ MARKING LINE GROOVED PERMANENT TAPE 6-INCH (WHITE)(12.5' SEG.); MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' SEG.); (25' GAP)
⑤ MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)



PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | PAVEMENT MARKING | SHEET 33 | E

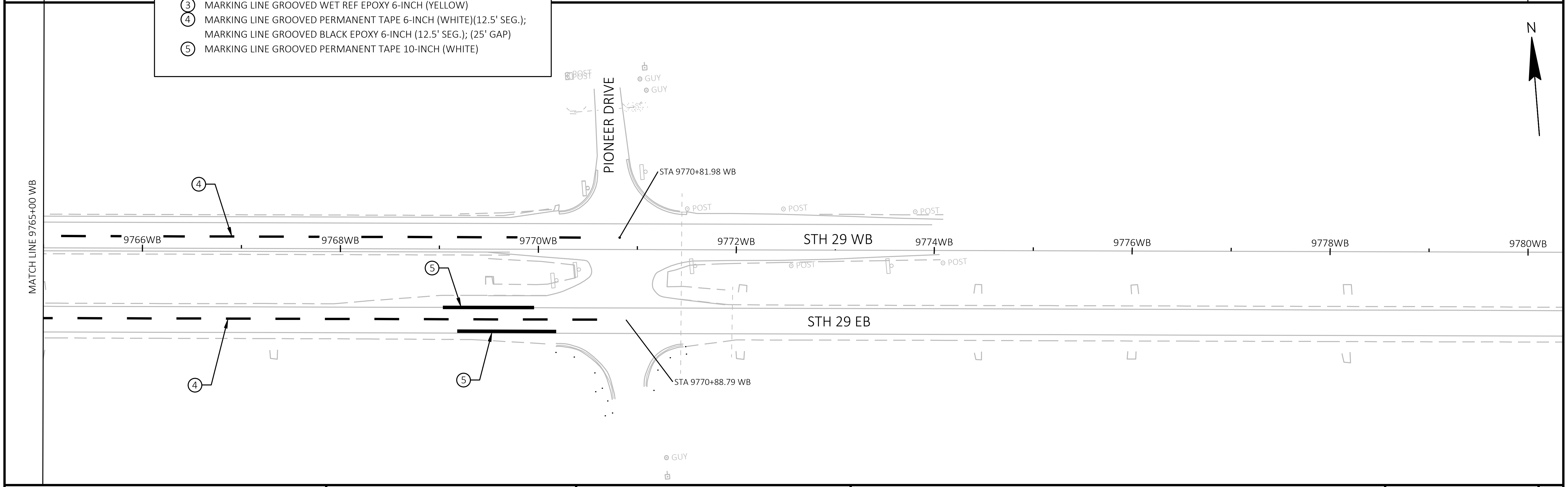
2



2

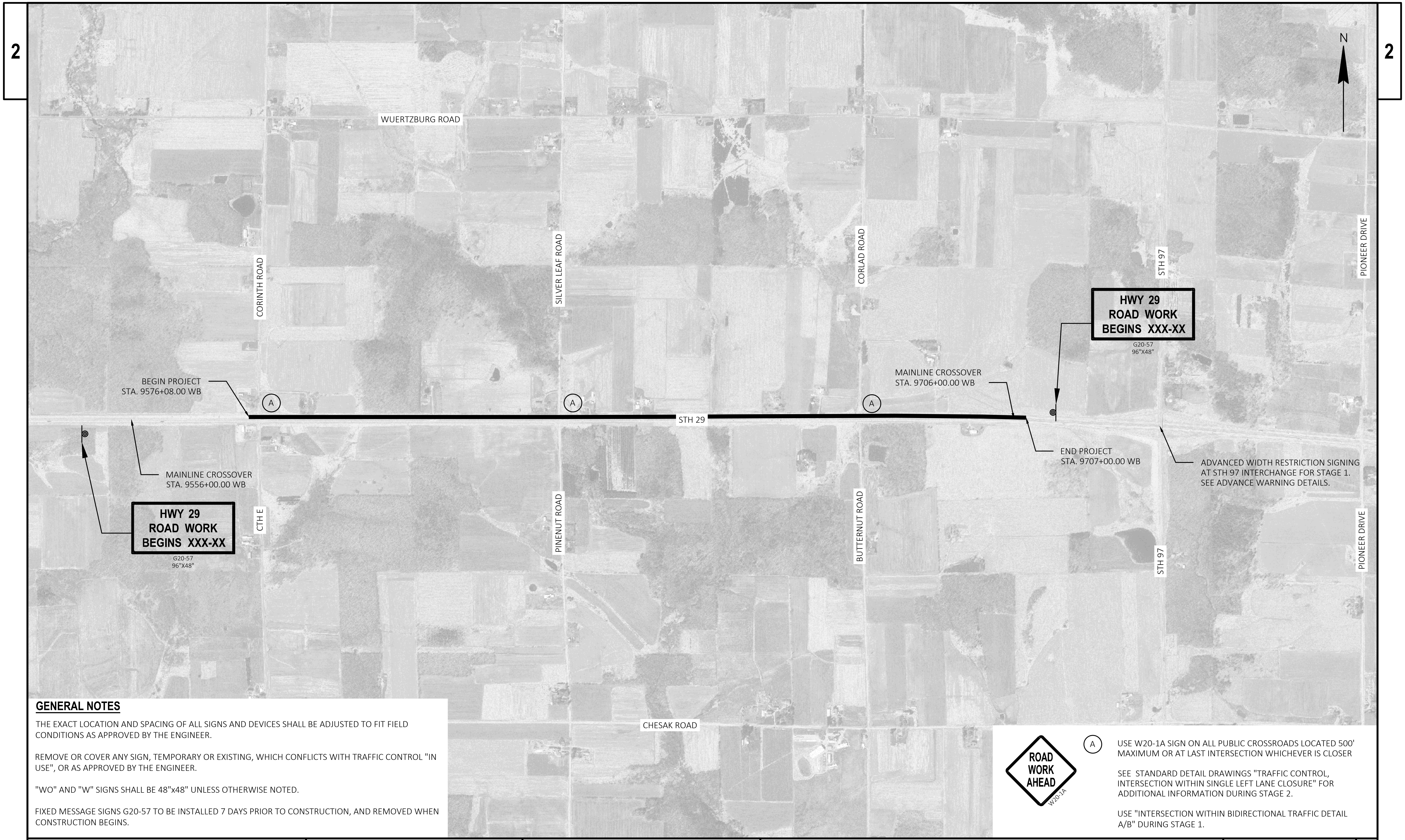
LEGEND

① NOT USED
② MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
③ MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
④ MARKING LINE GROOVED PERMANENT TAPE 6-INCH (WHITE)(12.5' SEG.);
MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' SEG.); (25' GAP)
⑤ MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)



PROJECT NO: 1053-07-85
HWY: STH 29
COUNTY: MARATHON
PAVEMENT MARKING
SHEET 34
E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\024501-PM.DWG
LAYOUT NAME - 024508-pm
PLOT DATE : 4/8/2026 8:23 AM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



GENERAL NOTES

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

REMOVE OR COVER ANY SIGN, TEMPORARY OR EXISTING, WHICH CONFLICTS WITH TRAFFIC CONTROL "IN USE", OR AS APPROVED BY THE ENGINEER.

"WO" AND "W" SIGNS SHALL BE 48"x48" UNLESS OTHERWISE NOTED.

FIXED MESSAGE SIGNS G20-57 TO BE INSTALLED 7 DAYS PRIOR TO CONSTRUCTION, AND REMOVED WHEN CONSTRUCTION BEGINS.

Ⓐ USE W20-1A SIGN ON ALL PUBLIC CROSSROADS LOCATED 500' MAXIMUM OR AT LAST INTERSECTION WHICHEVER IS CLOSER

SEE STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE" FOR ADDITIONAL INFORMATION DURING STAGE 2.

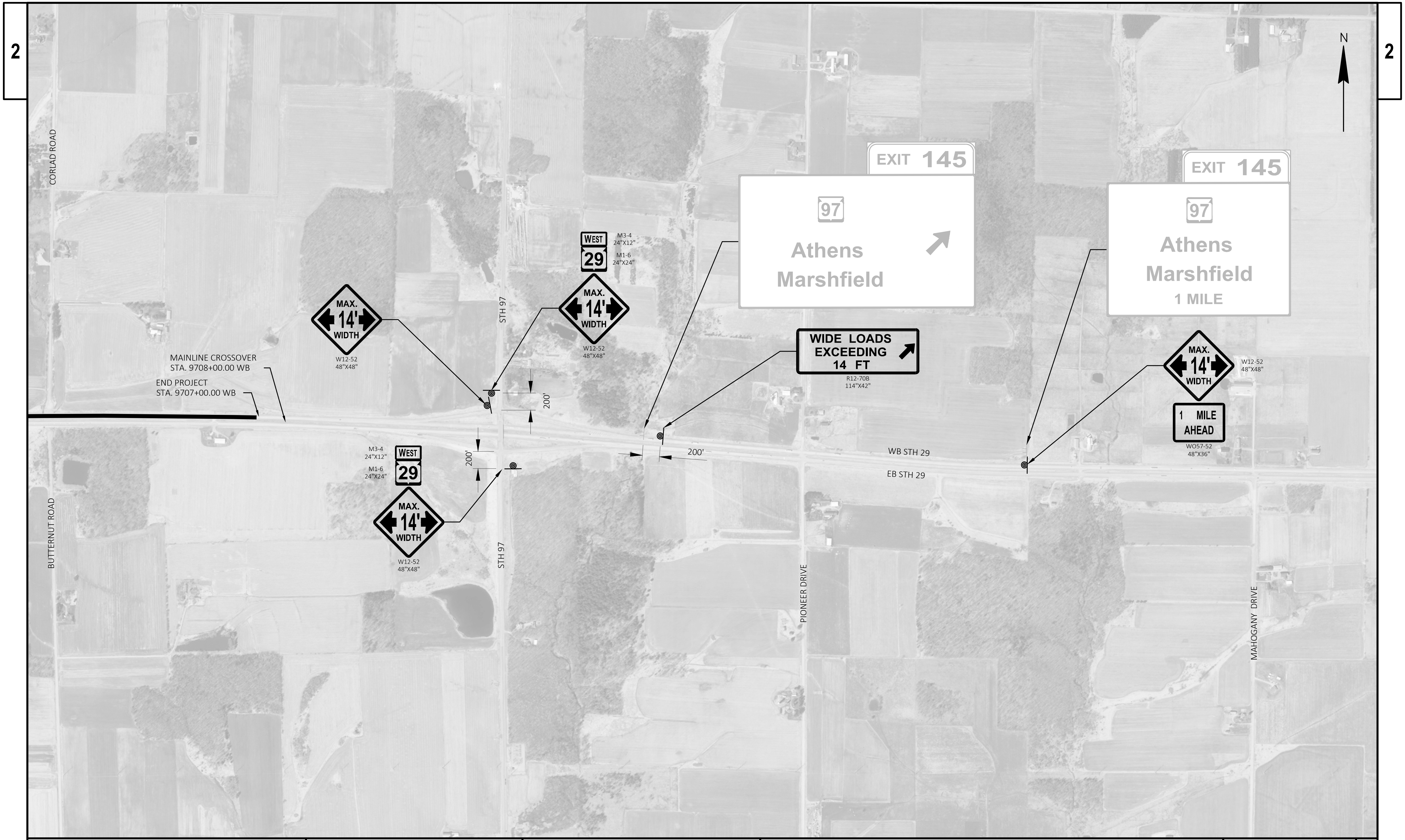
USE "INTERSECTION WITHIN BIDIRECTIONAL TRAFFIC DETAIL A/B" DURING STAGE 1.

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	ADVANCED WARNING	SHEET	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\025000-AW.DWG
LAYOUT NAME - 025001-aw
PLOT DATE : 2/19/2026 8:29 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1IN:1500FT

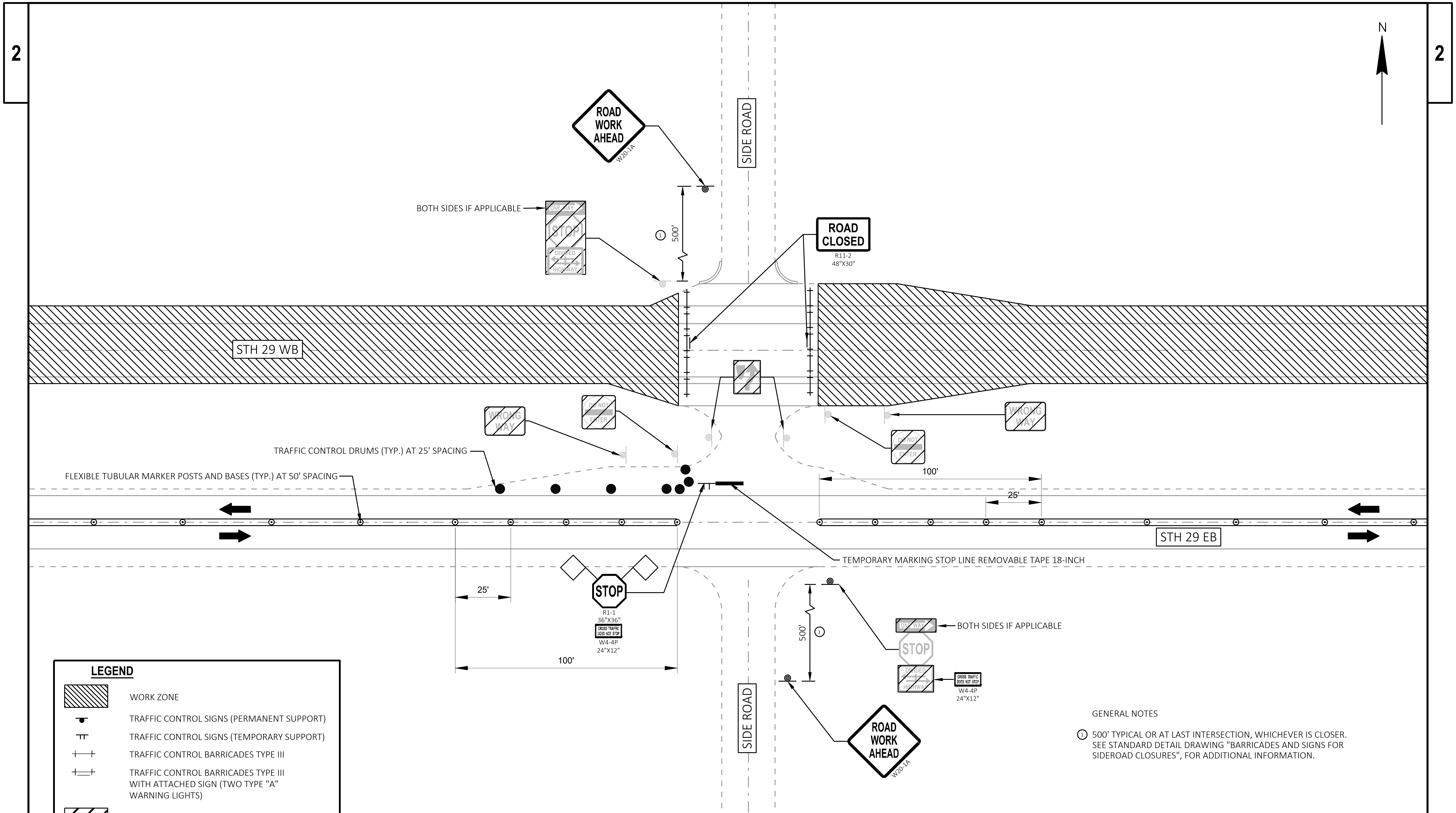
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	ADVANCED WARNING - WIDTH RESTRICTION	SHEET 36	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\025100-AW.DWG
LAYOUT NAME - 025101-aw
PLOT DATE : 2/19/2026 8:29 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	ADVANCED WARNING - WIDTH RESTRICTION	SHEET 37 E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\025100-AW.DWG
LAYOUT NAME - 025102-aw
PLOT DATE : 4/6/2026 1:24 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42



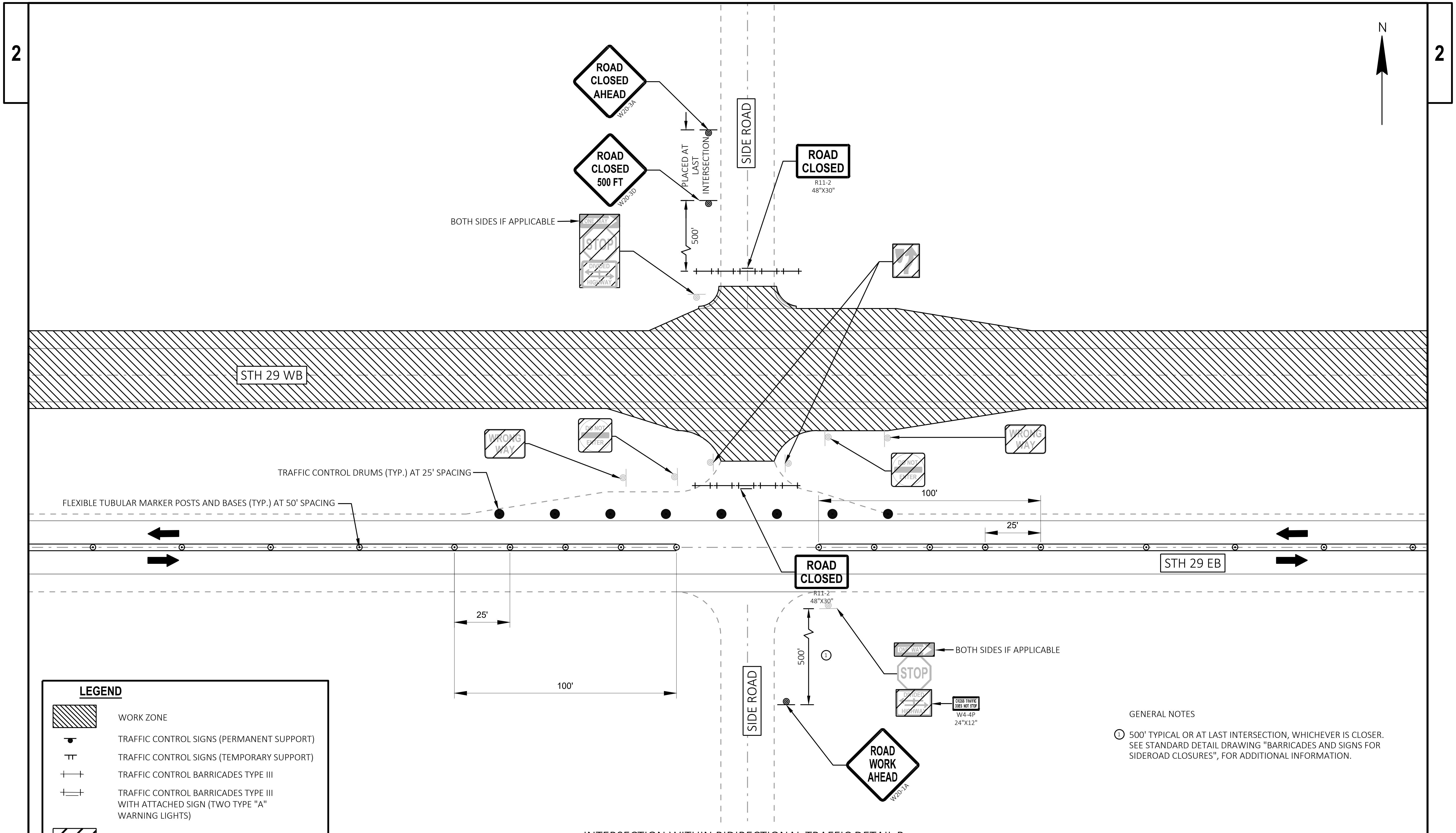
LEGEND

▨	WORK ZONE
	TRAFFIC CONTROL SIGNS (PERMANENT SUPPORT)
	TRAFFIC CONTROL SIGNS (TEMPORARY SUPPORT)
	TRAFFIC CONTROL BARRICADES TYPE III
	TRAFFIC CONTROL BARRICADES TYPE III WITH ATTACHED SIGN (TWO TYPE "A" WARNING LIGHTS)
▨	TRAFFIC CONTROL COVERING SIGNS TYPE II

GENERAL NOTES

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER. SEE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES", FOR ADDITIONAL INFORMATION.

INTERSECTION WITHIN BIDIRECTIONAL TRAFFIC DETAIL A



LEGEND

▨	WORK ZONE
┳	TRAFFIC CONTROL SIGNS (PERMANENT SUPPORT)
╥	TRAFFIC CONTROL SIGNS (TEMPORARY SUPPORT)
┼─┼	TRAFFIC CONTROL BARRICADES TYPE III
┼═┼	TRAFFIC CONTROL BARRICADES TYPE III WITH ATTACHED SIGN (TWO TYPE "A" WARNING LIGHTS)
▨	TRAFFIC CONTROL COVERING SIGNS TYPE II

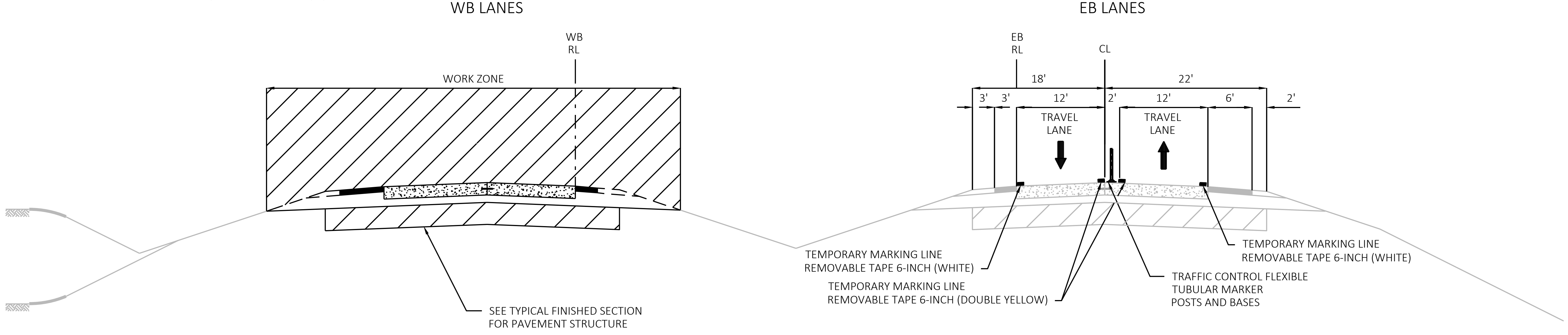
GENERAL NOTES

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER. SEE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES", FOR ADDITIONAL INFORMATION.

INTERSECTION WITHIN BIDIRECTIONAL TRAFFIC DETAIL B

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	TRAFFIC CONTROL - CONSTRUCTION DETAILS	SHEET 39	E

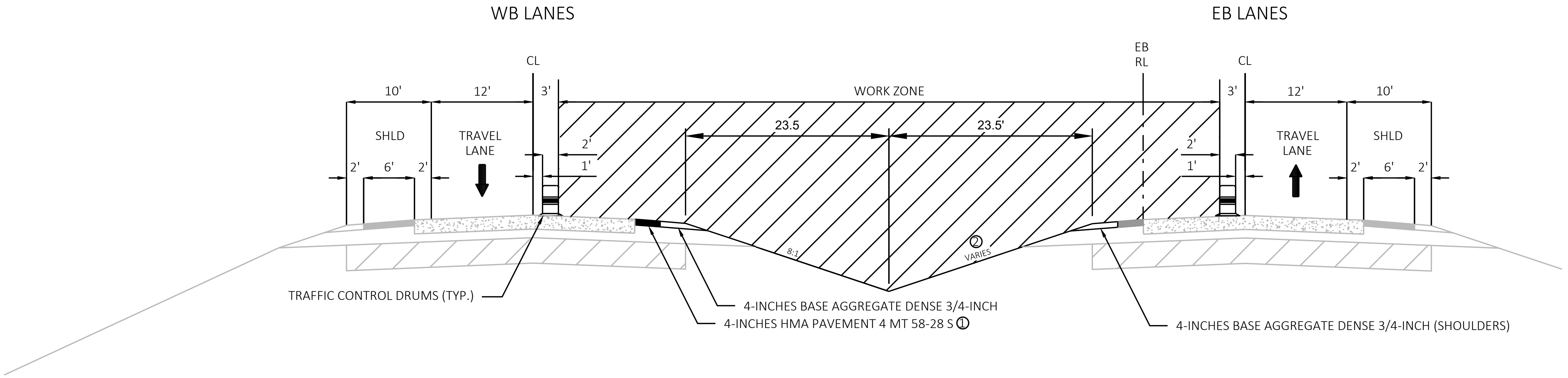
STAGE 1 CONSTRUCTION:
- CONSTRUCT WB INSIDE PASSING LANE SHOULDER FROM STA. 9565+39 WB TO STA. 9576+08 WB
- CONSTRUCT WB TRAVEL LANES FROM STA. 9576+08 WB TO STA. 9707+00 WB



STAGE 1 TYPICAL SECTION

STH 29

STA. 9576+08.00 WB - STA. 9707+00.00 WB



STAGE 2 TYPICAL SECTION

STH 29

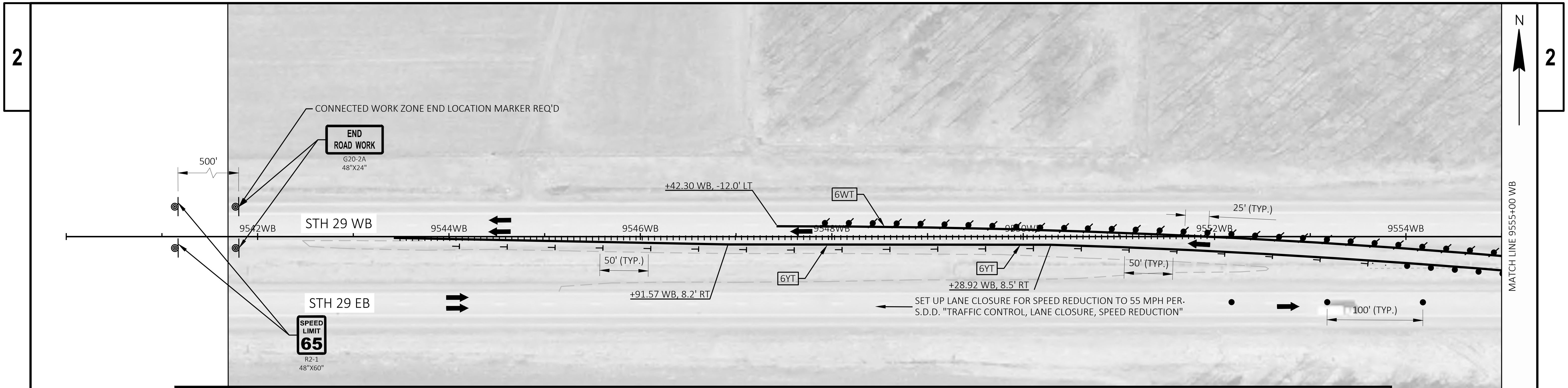
STA. 9692+00 WB - STA. 9713+68 WB

STAGE 2 CONSTRUCTION:
- REMOVE CROSSOVER FROM STA 9692+00 WB TO STA 9713+68 WB
- CONSTRUCT PASSING LANE SHOULDERS AT CROSSOVER REMOVAL
- CONSTRUCT MEDIAN OPENINGS BETWEEN STA 9607+00 WB TO 9713+68 WB

① PAVE SHOULDER IN A SINGLE HMA PAVEMENT 4-LT 58-28 S 4-INCH LIFT.

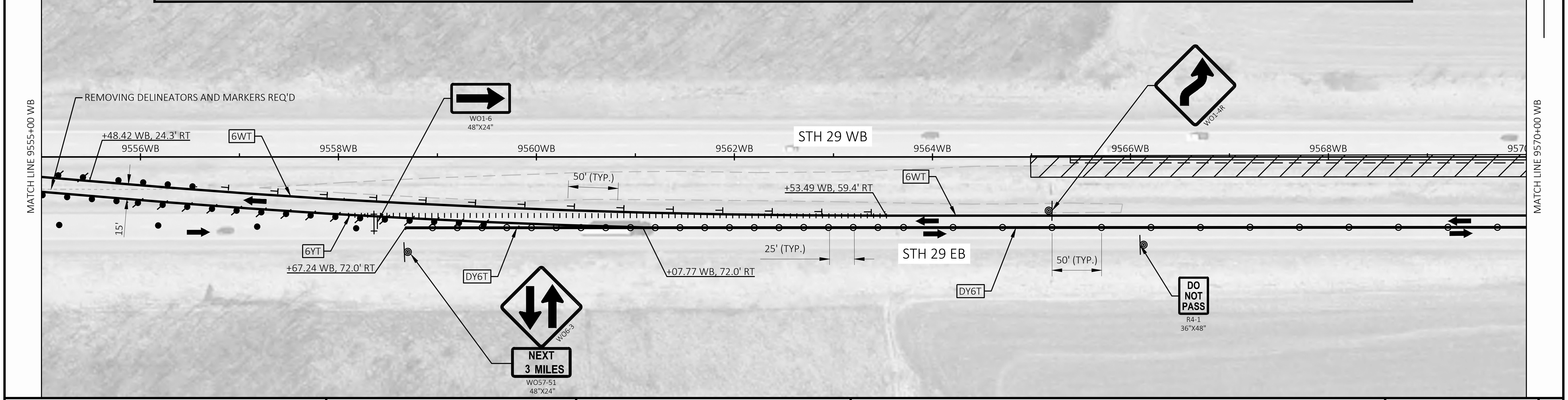
② SEE CROSS SECTIONS FOR ADDITIONAL GRADING INFORMATION.

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	TRAFFIC CONTROL - TYPICAL SECTIONS	SHEET 40 E

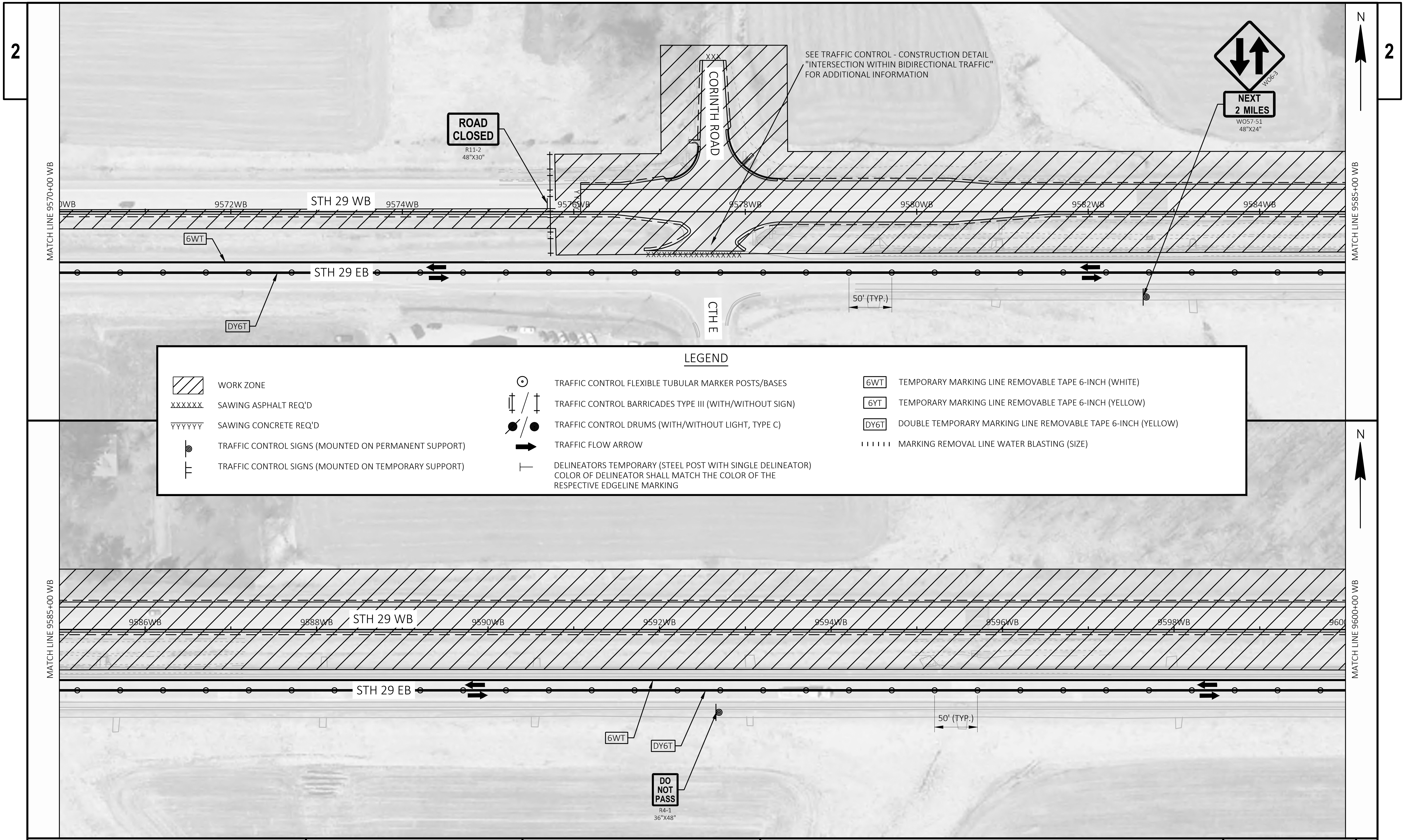


LEGEND

▨	WORK ZONE	⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
XXXXXX	SAWING ASPHALT REQ'D		TRAFFIC CONTROL BARRICADES TYPE III (WITH/WITHOUT SIGN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
YYYYYY	SAWING CONCRETE REQ'D	●	TRAFFIC CONTROL DRUMS (WITH/WITHOUT LIGHT, TYPE C)	DY6T	DOUBLE TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
	TRAFFIC CONTROL SIGNS (MOUNTED ON PERMANENT SUPPORT)	➡	TRAFFIC FLOW ARROW	IIIIII	MARKING REMOVAL LINE WATER BLASTING (SIZE)
	TRAFFIC CONTROL SIGNS (MOUNTED ON TEMPORARY SUPPORT)	⊢	DELINEATORS TEMPORARY (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING		



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 1	SHEET 41	E

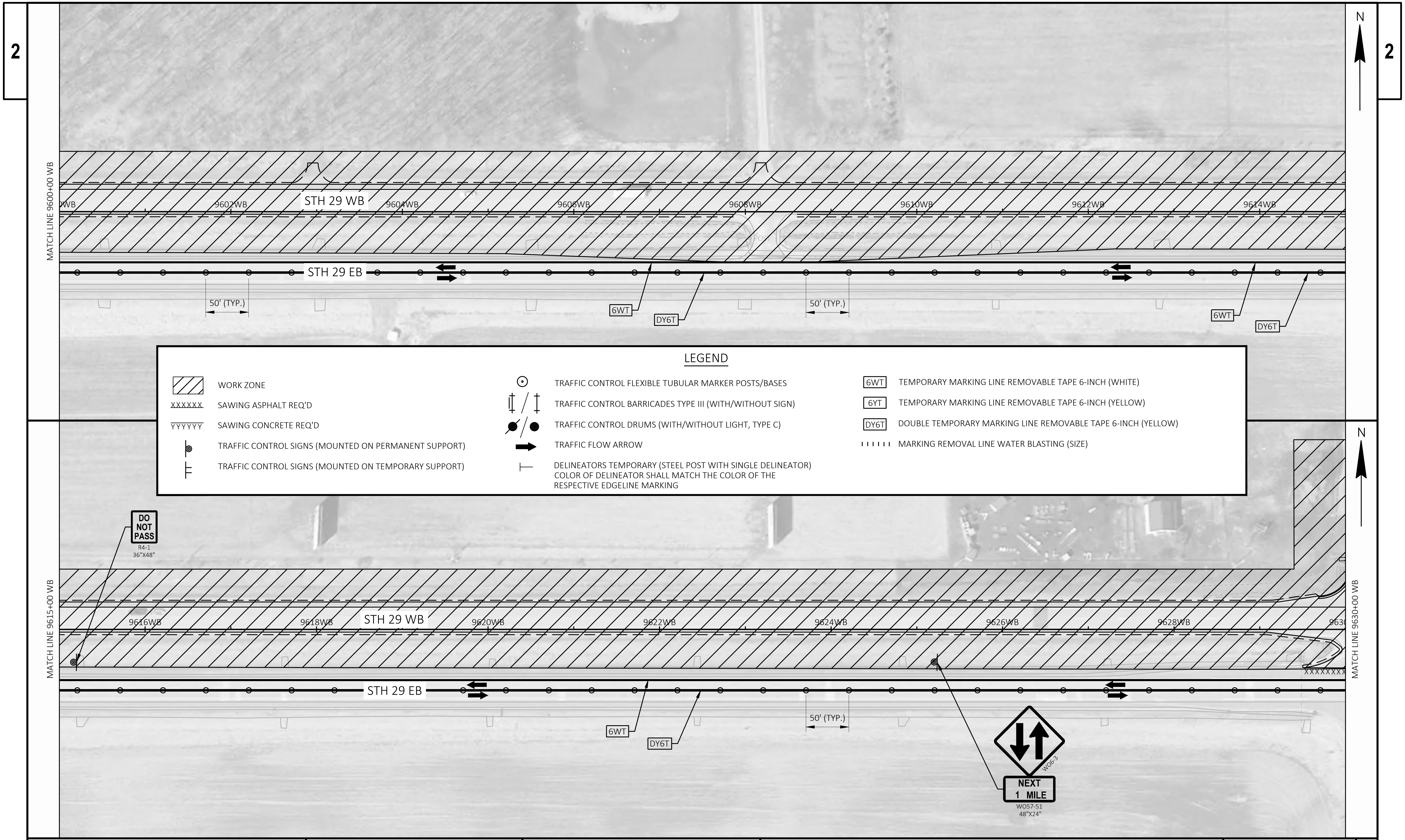


LEGEND

▨	WORK ZONE	⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
XXXXXX	SAWING ASPHALT REQ'D		TRAFFIC CONTROL BARRICADES TYPE III (WITH/WITHOUT SIGN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
YYYYYY	SAWING CONCRETE REQ'D	●	TRAFFIC CONTROL DRUMS (WITH/WITHOUT LIGHT, TYPE C)	DY6T	DOUBLE TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
◎	TRAFFIC CONTROL SIGNS (MOUNTED ON PERMANENT SUPPORT)	➡	TRAFFIC FLOW ARROW	ıııııı	MARKING REMOVAL LINE WATER BLASTING (SIZE)
├	TRAFFIC CONTROL SIGNS (MOUNTED ON TEMPORARY SUPPORT)	├	DELINEATORS TEMPORARY (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING		

PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | TRAFFIC CONTROL - STAGE 1 | SHEET 42 | E

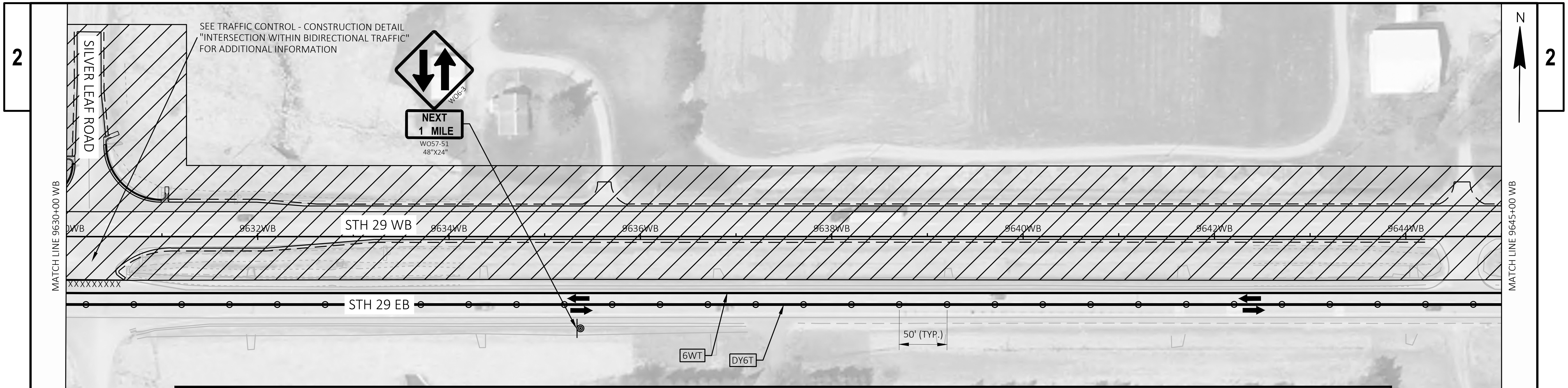
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\026001-S1.DWG
LAYOUT NAME - 026002-s1
PLOT DATE : 4/6/2026 1:51 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



LEGEND

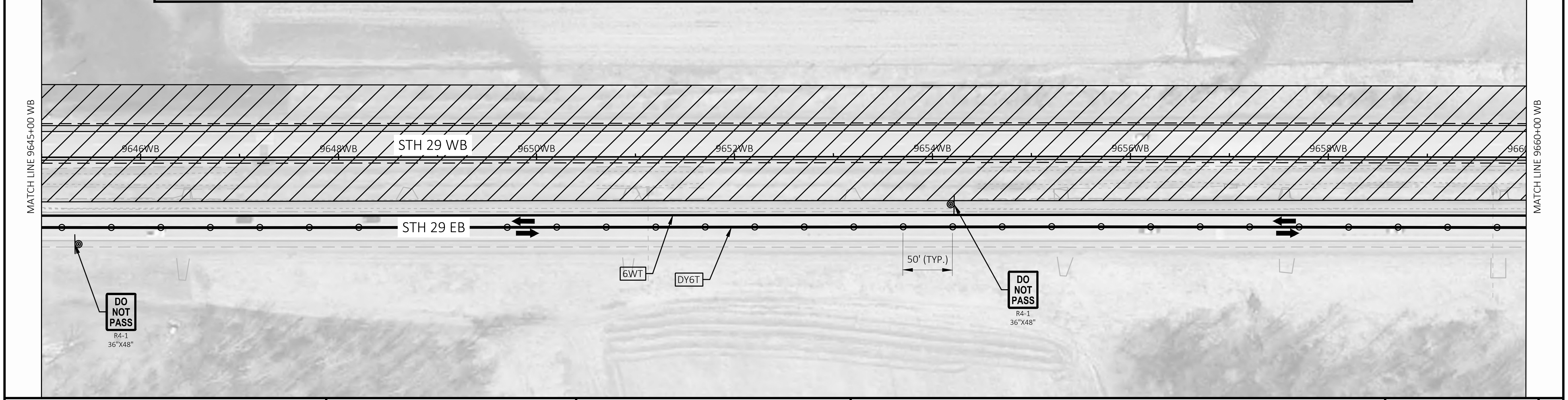
▨	WORK ZONE
XXXXXX	SAWING ASPHALT REQ'D
YYYYYY	SAWING CONCRETE REQ'D
⊚	TRAFFIC CONTROL SIGNS (MOUNTED ON PERMANENT SUPPORT)
⊢	TRAFFIC CONTROL SIGNS (MOUNTED ON TEMPORARY SUPPORT)
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
‡ / ‡	TRAFFIC CONTROL BARRICADES TYPE III (WITH/WITHOUT SIGN)
● / ●	TRAFFIC CONTROL DRUMS (WITH/WITHOUT LIGHT, TYPE C)
➡	TRAFFIC FLOW ARROW
⊢	DELINEATORS TEMPORARY (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
DY6T	DOUBLE TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
ꞁꞁꞁꞁꞁꞁ	MARKING REMOVAL LINE WATER BLASTING (SIZE)

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 1	SHEET 43 E



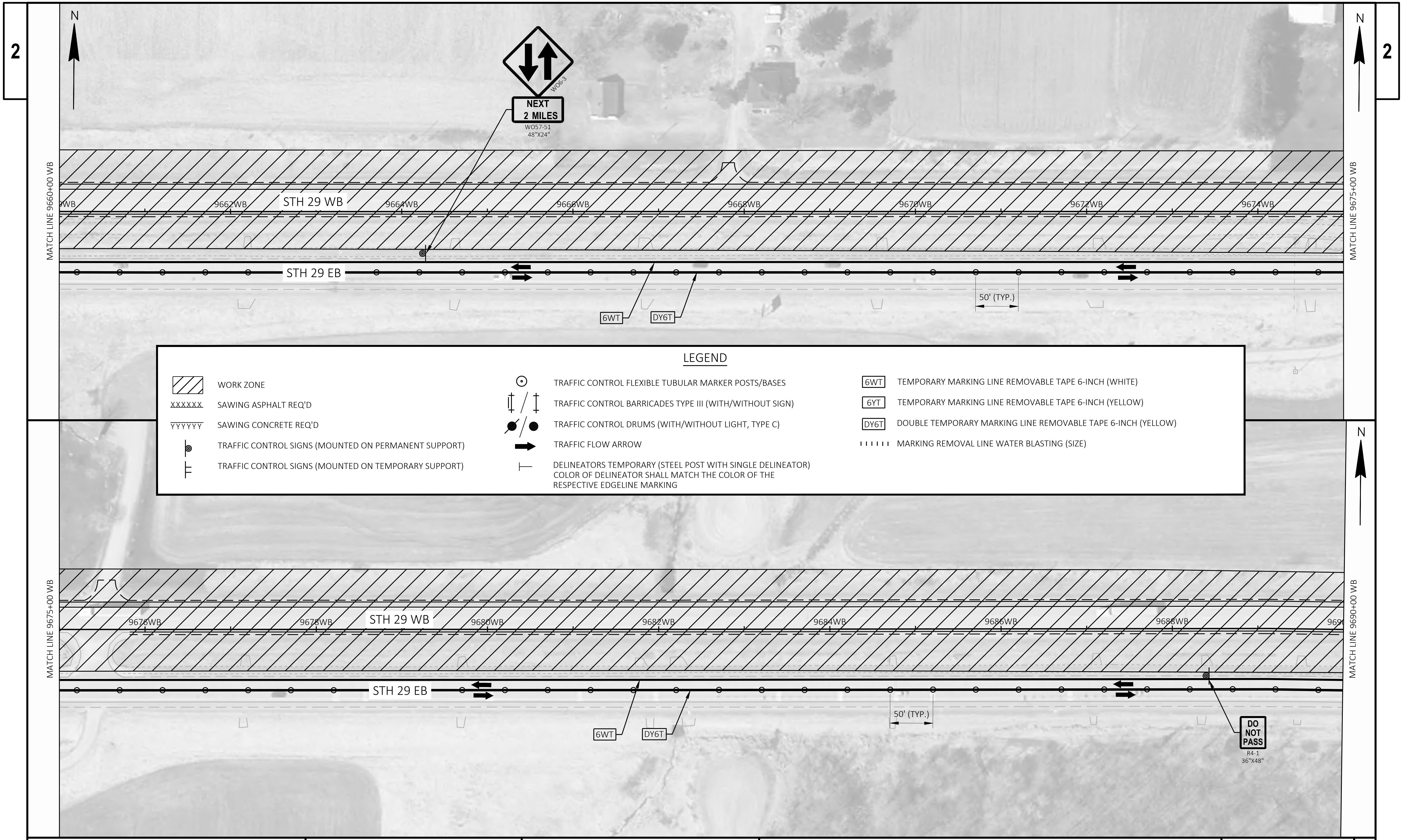
LEGEND

▨	WORK ZONE	⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
XXXXXX	SAWING ASPHALT REQ'D		TRAFFIC CONTROL BARRICADES TYPE III (WITH/WITHOUT SIGN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
YYYYYY	SAWING CONCRETE REQ'D	●	TRAFFIC CONTROL DRUMS (WITH/WITHOUT LIGHT, TYPE C)	DY6T	DOUBLE TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
	TRAFFIC CONTROL SIGNS (MOUNTED ON PERMANENT SUPPORT)	➡	TRAFFIC FLOW ARROW	׀׀׀׀׀׀	MARKING REMOVAL LINE WATER BLASTING (SIZE)
	TRAFFIC CONTROL SIGNS (MOUNTED ON TEMPORARY SUPPORT)	⊢	DELINEATORS TEMPORARY (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING		



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 1	SHEET 44 E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\026001-S1.DWG
LAYOUT NAME - 026004-s1
PLOT DATE : 4/6/2026 1:51 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

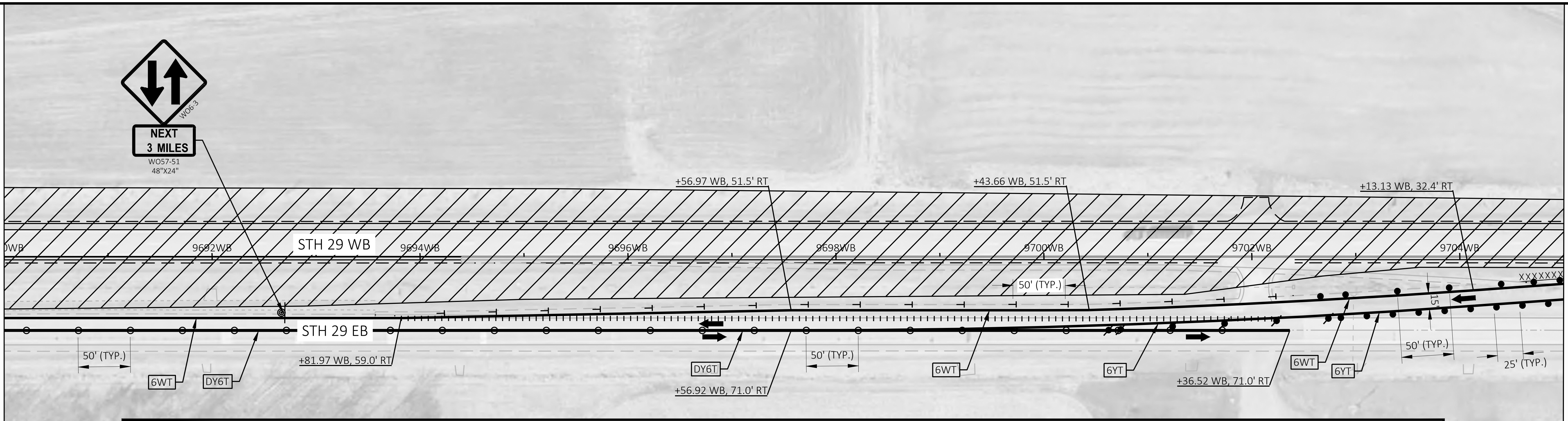


LEGEND

▨	WORK ZONE
XXXXXX	SAWING ASPHALT REQ'D
YYYYYY	SAWING CONCRETE REQ'D
⊚	TRAFFIC CONTROL SIGNS (MOUNTED ON PERMANENT SUPPORT)
⊦	TRAFFIC CONTROL SIGNS (MOUNTED ON TEMPORARY SUPPORT)
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
‡ / ‡	TRAFFIC CONTROL BARRICADES TYPE III (WITH/WITHOUT SIGN)
● / ●	TRAFFIC CONTROL DRUMS (WITH/WITHOUT LIGHT, TYPE C)
➡	TRAFFIC FLOW ARROW
⊢	DELINEATORS TEMPORARY (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
DY6T	DOUBLE TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
ꞁꞁꞁꞁꞁꞁ	MARKING REMOVAL LINE WATER BLASTING (SIZE)

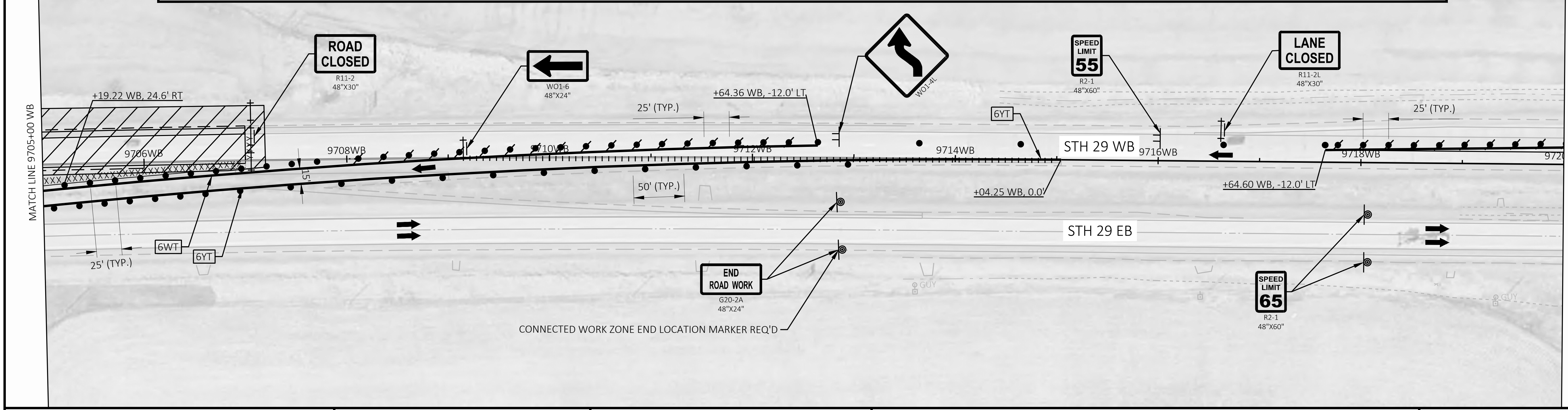
PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | TRAFFIC CONTROL - STAGE 1 | SHEET 45 | E

2

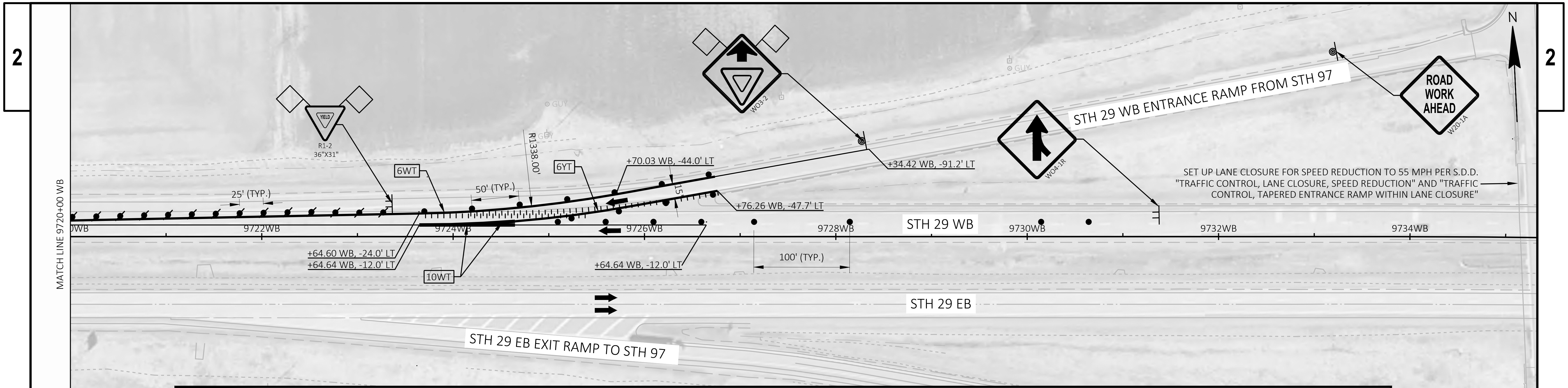


LEGEND

- ▨ WORK ZONE
- XXXXXX SAWING ASPHALT REQ'D
- YYYYYY SAWING CONCRETE REQ'D
- ◉ TRAFFIC CONTROL SIGNS (MOUNTED ON PERMANENT SUPPORT)
- ⊢ TRAFFIC CONTROL SIGNS (MOUNTED ON TEMPORARY SUPPORT)
- ⊙ TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- ‡ / ‡ TRAFFIC CONTROL BARRICADES TYPE III (WITH/WITHOUT SIGN)
- ● / ● TRAFFIC CONTROL DRUMS (WITH/WITHOUT LIGHT, TYPE C)
- ➡ TRAFFIC FLOW ARROW
- ⊢ DELINEATORS TEMPORARY (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- DY6T DOUBLE TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- ⁞⁞⁞⁞⁞⁞ MARKING REMOVAL LINE WATER BLASTING (SIZE)



PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | TRAFFIC CONTROL - STAGE 1 | SHEET | E



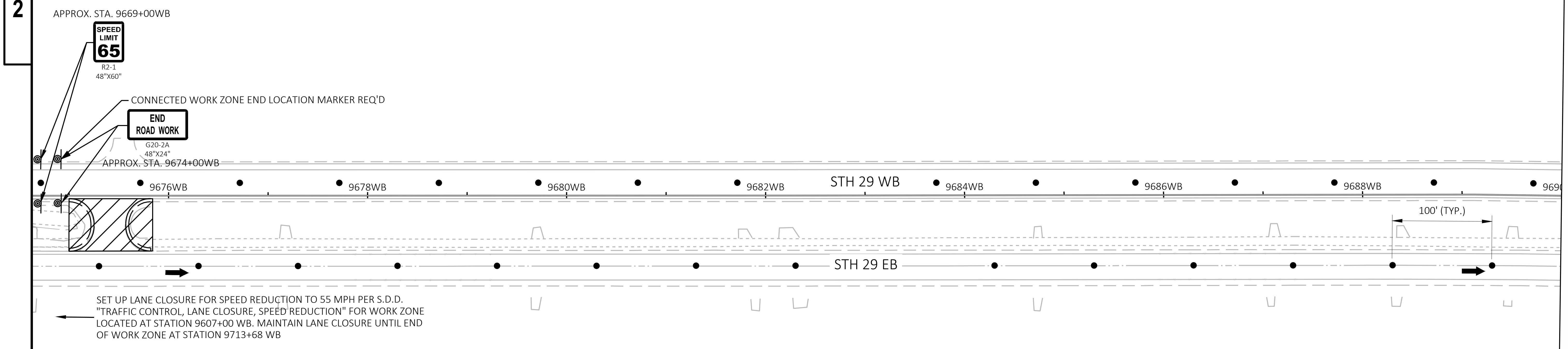
LEGEND

▨	WORK ZONE
XXXXXX	SAWING ASPHALT REQ'D
YYYYYY	SAWING CONCRETE REQ'D
⊚	TRAFFIC CONTROL SIGNS (MOUNTED ON PERMANENT SUPPORT)
⊢	TRAFFIC CONTROL SIGNS (MOUNTED ON TEMPORARY SUPPORT)
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
‡ / ‡	TRAFFIC CONTROL BARRICADES TYPE III (WITH/WITHOUT SIGN)
● / ●	TRAFFIC CONTROL DRUMS (WITH/WITHOUT LIGHT, TYPE C)
➡	TRAFFIC FLOW ARROW
⊢	DELINEATORS TEMPORARY (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
DY6T	DOUBLE TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
׀׀׀׀׀׀	MARKING REMOVAL LINE WATER BLASTING (SIZE)

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 1	SHEET 47 E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\026001-S1.DWG
LAYOUT NAME - 026007-s1
PLOT DATE : 4/6/2026 1:51 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

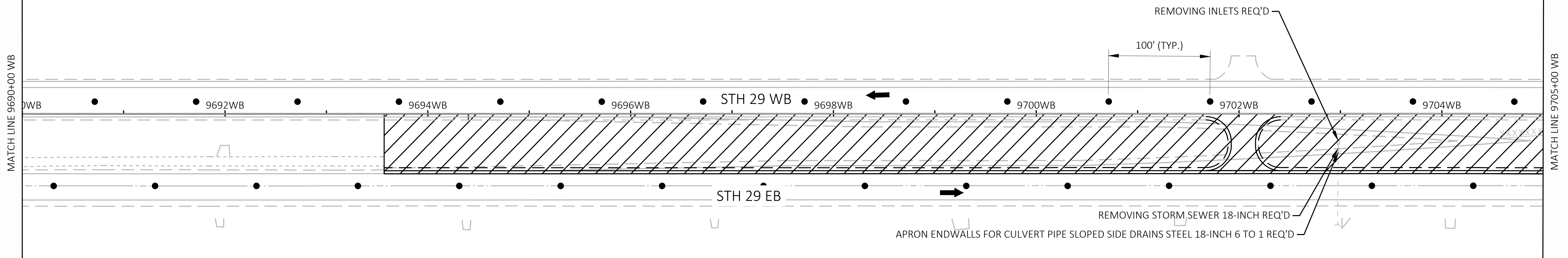
2



SET UP LANE CLOSURE FOR SPEED REDUCTION TO 55 MPH PER S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION" FOR WORK ZONE LOCATED AT STATION 9607+00 WB. MAINTAIN LANE CLOSURE UNTIL END OF WORK ZONE AT STATION 9713+68 WB

LEGEND

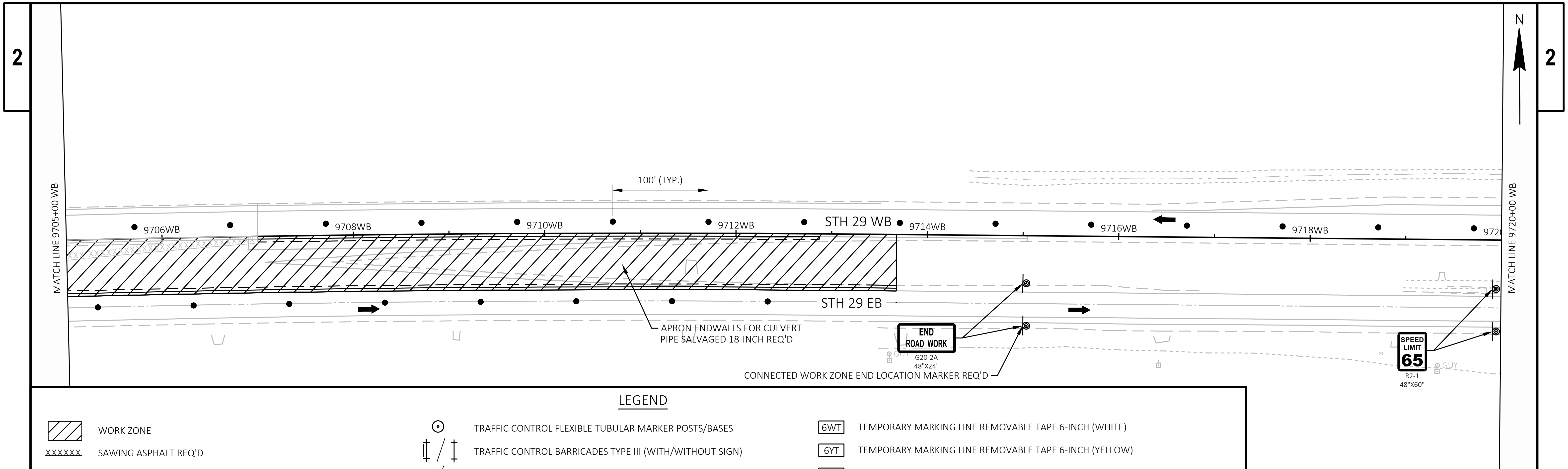
▨	WORK ZONE	⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
XXXXXX	SAWING ASPHALT REQ'D	‡ / ‡	TRAFFIC CONTROL BARRICADES TYPE III (WITH/WITHOUT SIGN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
YYYYYY	SAWING CONCRETE REQ'D	● / ●	TRAFFIC CONTROL DRUMS (WITH/WITHOUT LIGHT, TYPE C)	DY6T	DOUBLE TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
◎	TRAFFIC CONTROL SIGNS (MOUNTED ON PERMANENT SUPPORT)	➡	TRAFFIC FLOW ARROW	'''''''	MARKING REMOVAL LINE WATER BLASTING (SIZE)
⊢	TRAFFIC CONTROL SIGNS (MOUNTED ON TEMPORARY SUPPORT)	⊢	DELINEATORS TEMPORARY (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING		



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 2	SHEET 48	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\026002-S2.DWG
LAYOUT NAME - 026001-s2
PLOT DATE : 4/21/2026 3:31 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : ###########
WISDOT/CADDS SHEET 44

2



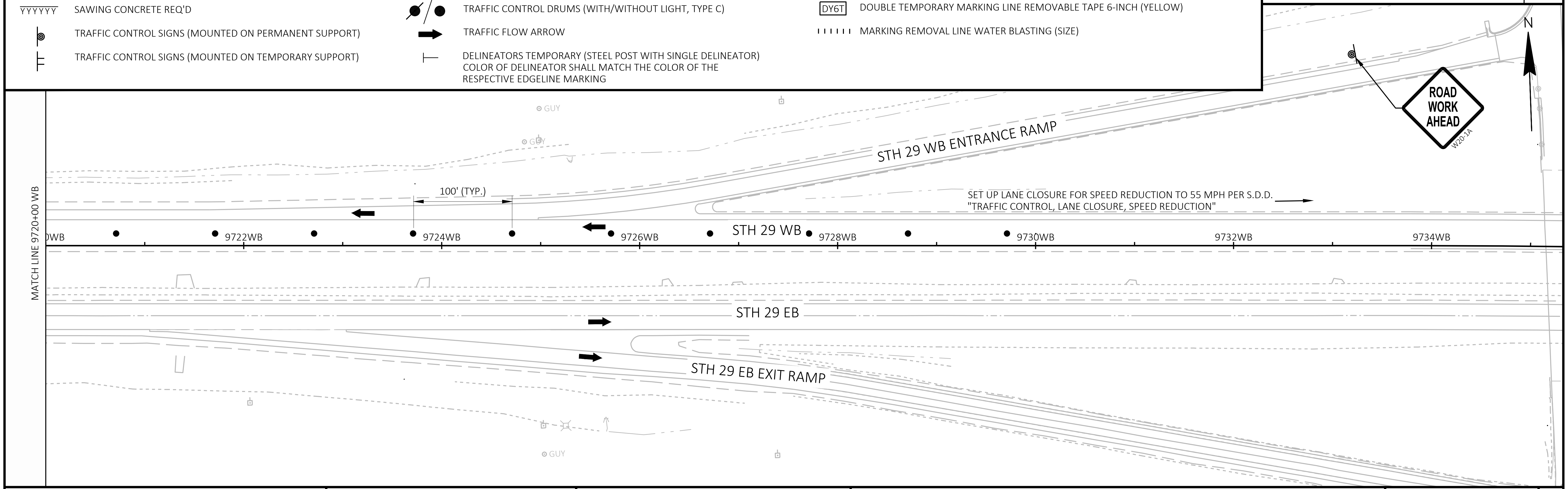
APRON ENDWALLS FOR CULVERT PIPE SALVAGED 18-INCH REQ'D

CONNECTED WORK ZONE END LOCATION MARKER REQ'D

2

LEGEND

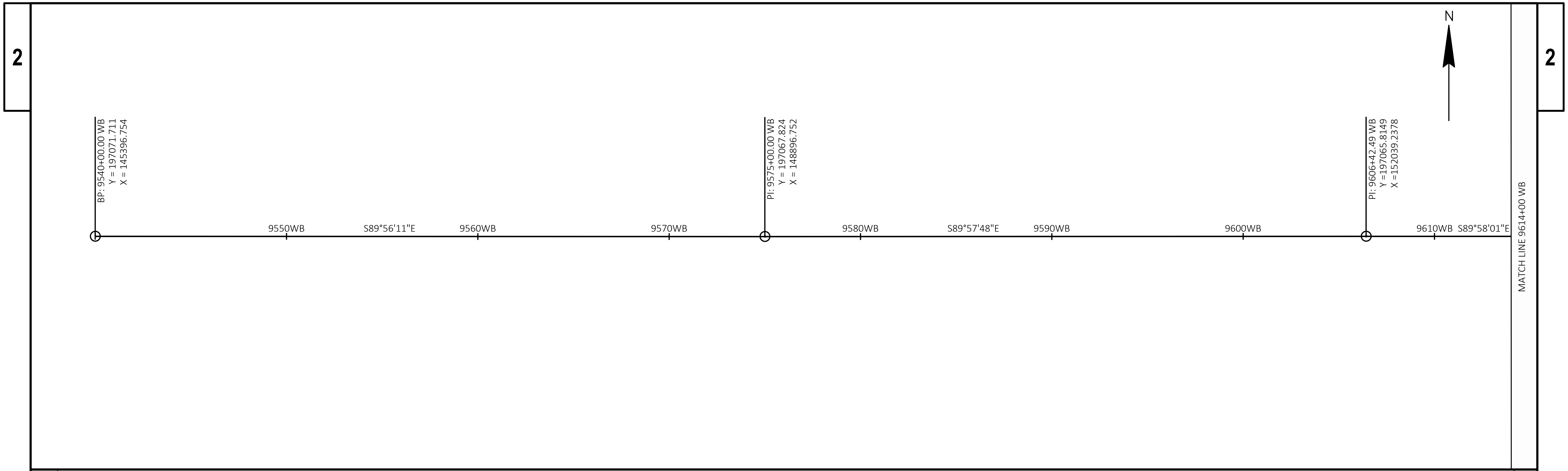
▨	WORK ZONE	⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
XXXXXX	SAWING ASPHALT REQ'D	‡ / ‡	TRAFFIC CONTROL BARRICADES TYPE III (WITH/WITHOUT SIGN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
YYYYYY	SAWING CONCRETE REQ'D	● / ●	TRAFFIC CONTROL DRUMS (WITH/WITHOUT LIGHT, TYPE C)	DY6T	DOUBLE TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
⊚	TRAFFIC CONTROL SIGNS (MOUNTED ON PERMANENT SUPPORT)	➡	TRAFFIC FLOW ARROW	╎╎╎╎╎╎	MARKING REMOVAL LINE WATER BLASTING (SIZE)
⊧	TRAFFIC CONTROL SIGNS (MOUNTED ON TEMPORARY SUPPORT)	⊢	DELINEATORS TEMPORARY (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING		

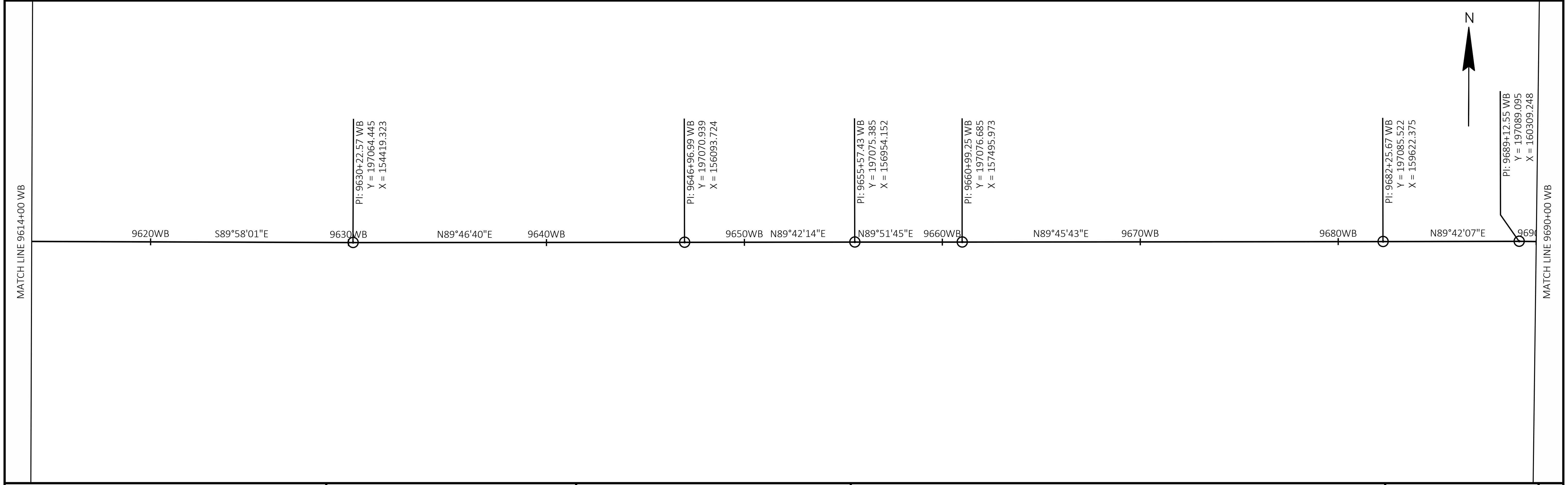


SET UP LANE CLOSURE FOR SPEED REDUCTION TO 55 MPH PER S.D.D.
"TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION"

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 2	SHEET 49 E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\026002-S2.DWG
LAYOUT NAME - 026002-s2
PLOT DATE : 4/6/2026 1:51 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : ###########
WISDOT/CADDS SHEET 44

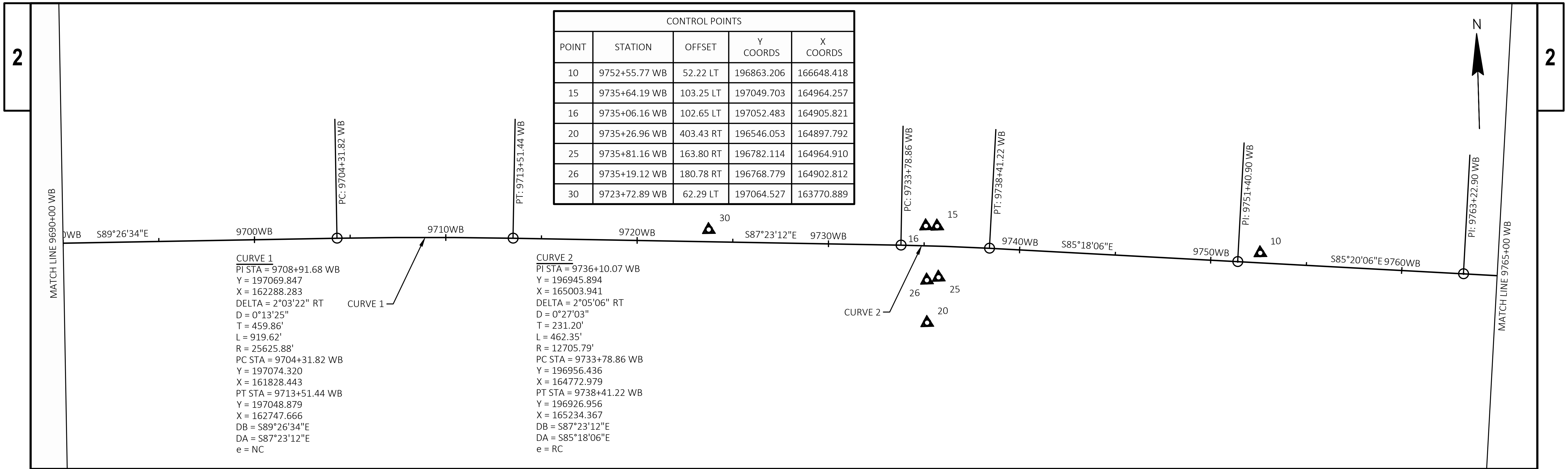




PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	ALIGNMENT DETAILS (INCLUDES CONTROL POINTS)	SHEET	E

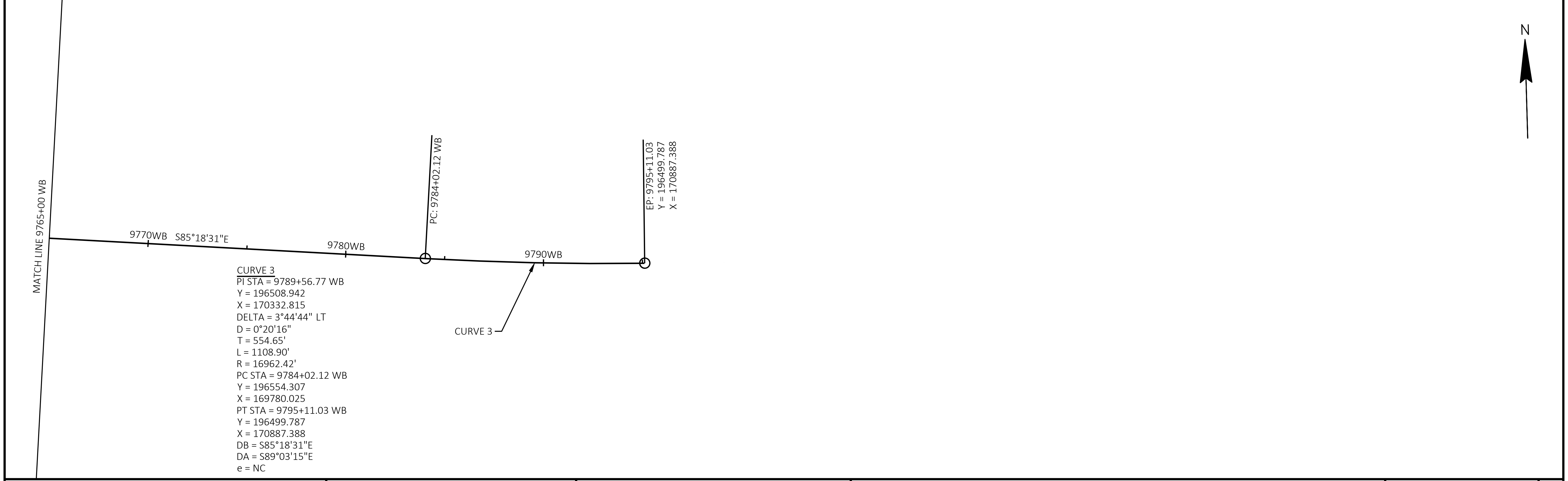
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\027201-AD.DWG
LAYOUT NAME - 027201-ad
PLOT DATE : 2/19/2026 8:30 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:500 FT

CONTROL POINTS				
POINT	STATION	OFFSET	Y COORDS	X COORDS
10	9752+55.77 WB	52.22 LT	196863.206	166648.418
15	9735+64.19 WB	103.25 LT	197049.703	164964.257
16	9735+06.16 WB	102.65 LT	197052.483	164905.821
20	9735+26.96 WB	403.43 RT	196546.053	164897.792
25	9735+81.16 WB	163.80 RT	196782.114	164964.910
26	9735+19.12 WB	180.78 RT	196768.779	164902.812
30	9723+72.89 WB	62.29 LT	197064.527	163770.889



CURVE 1
PI STA = 9708+91.68 WB
Y = 197069.847
X = 162288.283
DELTA = 2°03'22" RT
D = 0°13'25"
T = 459.86'
L = 919.62'
R = 25625.88'
PC STA = 9704+31.82 WB
Y = 197074.320
X = 161828.443
PT STA = 9713+51.44 WB
Y = 197048.879
X = 162747.666
DB = S89°26'34"E
DA = S87°23'12"E
e = NC

CURVE 2
PI STA = 9736+10.07 WB
Y = 196945.894
X = 165003.941
DELTA = 2°05'06" RT
D = 0°27'03"
T = 231.20'
L = 462.35'
R = 12705.79'
PC STA = 9733+78.86 WB
Y = 196956.436
X = 164772.979
PT STA = 9738+41.22 WB
Y = 196926.956
X = 165234.367
DB = S87°23'12"E
DA = S85°18'06"E
e = RC



CURVE 3
PI STA = 9789+56.77 WB
Y = 196508.942
X = 170332.815
DELTA = 3°44'44" LT
D = 0°20'16"
T = 554.65'
L = 1108.90'
R = 16962.42'
PC STA = 9784+02.12 WB
Y = 196554.307
X = 169780.025
PT STA = 9795+11.03 WB
Y = 196499.787
X = 170887.388
DB = S85°18'31"E
DA = S89°03'15"E
e = NC

Estimate Of Quantities

					1053-07-85
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**
0002	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0004	204.0100	Removing Concrete Pavement	SY	37,730.000	37,730.000
0006	204.0110	Removing Asphaltic Surface	SY	360.000	360.000
0008	204.0150	Removing Curb & Gutter	LF	300.000	300.000
0010	204.0180	Removing Delineators and Markers	EACH	34.000	34.000
0012	204.0220	Removing Inlets	EACH	1.000	1.000
0014	204.0245	Removing Storm Sewer (size) 01. 18-Inch	LF	8.000	8.000
0016	204.9180.S	Removing (item description) 01. Buried Concrete Pavement	SY	9,390.000	9,390.000
0018	205.0100	Excavation Common	CY	72,521.000	72,521.000
0020	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	11.000	11.000
0022	213.0100	Finishing Roadway (project) 01. 1053-07-85	EACH	1.000	1.000
0024	305.0110	Base Aggregate Dense 3/4-Inch	TON	7,210.000	7,210.000
0026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	34,700.000	34,700.000
0028	312.0110	Select Crushed Material	TON	56,839.000	56,839.000
0030	415.0210	Concrete Pavement Gaps	EACH	2.000	2.000
0032	415.6000.S	Rout and Seal	LF	27,250.000	27,250.000
0034	416.0620	Drilled Dowel Bars	EACH	34.000	34.000
0036	450.4000	HMA Cold Weather Paving	TON	995.000	995.000
0038	455.0605	Tack Coat	GAL	716.000	716.000
0040	460.2000	Incentive Density HMA Pavement	DOL	2,560.000	2,560.000
0042	460.6224	HMA Pavement 4 MT 58-28 S	TON	3,970.000	3,970.000
0044	465.0315	Asphaltic Flumes	SY	42.000	42.000
0046	465.0510	Asphaltic Rumble Strips, Shoulder Divided Roadway	LF	15,060.000	15,060.000
0048	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	2.000	2.000
0050	520.3318	Culvert Pipe Class III-A 18-Inch	LF	38.000	38.000
0052	521.1518	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 6 to 1	EACH	1.000	1.000
0054	524.0618	Apron Endwalls for Culvert Pipe Salvaged 18-Inch	EACH	1.000	1.000
0056	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	302.000	302.000
0058	602.3210	Concrete Rumble Strips, Shoulder Divided Roadway	LF	11,710.000	11,710.000
0060	606.0100	Riprap Light	CY	27.000	27.000
0062	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	720.000	720.000
0064	618.0100	Maintenance and Repair of Haul Roads (project) 01. 1053-07-85	EACH	1.000	1.000
0066	619.1000	Mobilization	EACH	1.000	1.000
0068	624.0100	Water	MGAL	1,116.000	1,116.000
0070	625.0100	Topsoil	SY	13,480.000	13,480.000
0072	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0076	628.2008	Erosion Mat Urban Class I Type B	SY	13,480.000	13,480.000
0078	628.7005	Inlet Protection Type A	EACH	8.000	8.000
0080	628.7504	Temporary Ditch Checks	LF	154.000	154.000
0082	628.7555	Culvert Pipe Checks	EACH	92.000	92.000
0084	628.7560	Tracking Pads	EACH	3.000	3.000
0086	628.7570	Rock Bags	EACH	20.000	20.000
0088	629.0210	Fertilizer Type B	CWT	64.100	64.100
0090	630.0130	Seeding Mixture No. 30	LB	2,112.000	2,112.000
0092	630.0300	Seeding Borrow Pit	LB	345.000	345.000
0094	630.0500	Seed Water	MGAL	1,060.000	1,060.000
0096	633.0100	Delineator Posts Steel	EACH	38.000	38.000
0098	633.0500	Delineator Reflectors	EACH	38.000	38.000

Estimate Of Quantities

					1053-07-85
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**
0100	633.1100	Delineators Temporary	EACH	69.000	69.000
0102	633.5200	Markers Culvert End	EACH	3.000	3.000
0104	633.5350	Markers Permanent Flexible	EACH	60.000	60.000
0106	638.2102	Moving Signs Type II	EACH	1.000	1.000
0108	642.5201	Field Office Type C	EACH	1.000	1.000
0110	643.0300	Traffic Control Drums	DAY	32,068.000	32,068.000
0112	643.0420	Traffic Control Barricades Type III	DAY	3,386.000	3,386.000
0114	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	617.000	617.000
0116	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	617.000	617.000
0118	643.0705	Traffic Control Warning Lights Type A	DAY	5,944.000	5,944.000
0120	643.0715	Traffic Control Warning Lights Type C	DAY	8,344.000	8,344.000
0122	643.0810	Traffic Control Connected Arrow Boards	DAY	230.000	230.000
0124	643.0900	Traffic Control Signs	DAY	9,382.000	9,382.000
0126	643.0920	Traffic Control Covering Signs Type II	EACH	24.000	24.000
0128	643.1000	Traffic Control Signs Fixed Message	SF	97.000	97.000
0130	643.1220	Traffic Control Connected Work Zone Start and End Location Markers	DAY	230.000	230.000
0132	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	55,568.000	55,568.000
0134	643.3280	Temporary Marking Line Removable Tape 10-Inch	LF	200.000	200.000
0136	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	40.000	40.000
0138	643.5000	Traffic Control	EACH	1.000	1.000
0140	645.0130	Geotextile Type R	SY	120.000	120.000
0142	645.0140	Geotextile Type SAS	SY	62,780.000	62,780.000
0144	646.2025	Marking Line Grooved Black Epoxy 6-Inch	LF	9,710.000	9,710.000
0146	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	53,290.000	53,290.000
0148	646.2050	Marking Line Grooved Permanent Tape 6-Inch	LF	9,710.000	9,710.000
0150	646.4050	Marking Line Grooved Permanent Tape 10-Inch	LF	4,420.000	4,420.000
0152	646.6466	Cold Weather Marking Epoxy 6-Inch	LF	13,324.000	13,324.000
0154	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	2,535.000	2,535.000
0156	646.9012	Marking Removal Line Water Blasting 6-Inch	LF	785.000	785.000
0158	646.9112	Marking Removal Line Water Blasting 10-Inch	LF	458.000	458.000
0160	650.4500	Construction Staking Subgrade	LF	13,092.000	13,092.000
0162	650.5000	Construction Staking Base	LF	1,675.000	1,675.000
0164	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	302.000	302.000
0166	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0168	650.7000	Construction Staking Concrete Pavement	LF	13,092.000	13,092.000
0170	650.9911	Construction Staking Supplemental Control (project) 01. 1053-07-85	EACH	1.000	1.000
0172	650.9920	Construction Staking Slope Stakes	LF	13,092.000	13,092.000
0174	680.0100	Public Land Survey Monument Verify and Reset	EACH	5.000	5.000
0176	690.0150	Sawing Asphalt	LF	3,342.000	3,342.000
0178	690.0250	Sawing Concrete	LF	1,095.000	1,095.000
0180	715.0715	Incentive Flexural Strength Concrete Pavement	DOL	11,343.000	11,343.000
0182	740.0440	Incentive IRI Ride	DOL	9,918.000	9,918.000
0184	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0186	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,760.000	2,760.000
0188	SPV.0090	Special 01. Grading and Shaping Ditch	LF	1,065.000	1,065.000
0190	SPV.0180	Special 01. HP Concrete Pavement 10-Inch	SY	37,810.000	37,810.000

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	LOCATION	203.0100 EACH	REMARK
0010	9608+20	29.1' RT	1	18-INCH CORRUGATED STEEL

REMOVING CONCRETE PAVEMENT SUMMARY

CATEGORY		STATION - STATION	LT/RT	204.0100 REMOVING CONCRETE PAVEMENT SY	204.9180.S.01 REMOVING BURIED CONCRETE PAVEMENT SY
0010	MAINLINE	9576+08 - 9600+00	LT	6,910	2,320
		9600+00 - 9650+00	LT	14,400	720
		9650+00 - 9700+00	LT	14,400	4,810
		9700+00 - 9707+00	LT	2,020	1,540
		TOTALS		37,730	9,390

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION - STATION	LT/RT	204.0110 SY
0010	9565+39 WB - 9576+08 WB	RT	360

REMOVING CURB & GUTTER

CATEGORY		STATION - STATION	LT/RT	204.0150 LF
0010	MAINLINE	9576+08 - 9600+00	LT	150
		9600+00 - 9650+00	LT	150
		9650+00 - 9700+00	LT	---
		9700+00 - 9707+00	LT	---
		TOTAL		300

REMOVING DELINEATORS AND MARKERS

CATEGORY		STATION - STATION	LT/RT	204.0180 EACH
0010	MAINLINE	9576+08 - 9600+00	LT	6
		9600+00 - 9650+00	LT	13
		9650+00 - 9700+00	LT	13
		9700+00 - 9707+00	LT	2
		TOTAL		34

REMOVING STORM SEWER 18-INCH

CATEGORY	STATION	LOCATION	204.0245.01 LF
0010	9702+98 WB	RT	8

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

CATEGORY	STATION - STATION	LT/RT	211.0400 STA
0010	9565+30 WB - 9576+08 WB	LT	11

REMOVING INLETS

CATEGORY	STATION	LOCATION	204.0220 EACH
0010	9702+98 WB	28' RT	1

DIVISION	STATION - STATION	LOCATION	205.0100 EXCAVATION COMMON (1)		SALVAGED/UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL (5)	MASS ORDINATE +/- (6)	WASTE	312.0110* SELECT CRUSHED MATERIAL (TON)	624.0100* WATER (FOR DUST CONTROL) (MGAL)
			CUT (2)	EBS EXCAVATION (3)				FACTOR 1.25				
STH 29 MAINLINE	9576+08 WB - 9713+68 WB	LT/RT	58,599	2,930	12,531	46,068	308	385	48,613	48,613	5,567	64
CROSSOVER REMOVAL	9692+00 WB - 9713+68 WB	RT	2,455	0	0	2,455	0	0	2,455	2,455	0	2
SIDEROADS		LT/RT	1,602	80	361	1,241	37	46	1,275	1,275	152	2
BURIED CONCRETE REMOVAL (7)		LT	6,855	0	2,354	4,501	0	0	4,501	4,501	0	7
GRAND TOTAL			69,511	3,010	15,246	54,265	345	431	56,844	56,844	5,719	76
TOTAL COMMON EXC			72,521									

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTES:

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

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

(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL OR SUITABLE CUT MATERIAL AS DIRECTED BY THE PROJECT ENGINEER.

(4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL.

(5) EXPANDED FILL = UNEXPANDED FILL * EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25.

(6) MASS ORDINATE = CUT + EBS EXCAVATION - SALVAGED/UNUSABLE PAVEMENT MATERIAL - EXPANDED FILL. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(7) BURIED CONCRETE PAVEMENT REMOVED IS INCLUDED IN SALVAGED/UNUSABLE PAVEMENT MATERIAL. REMAINING EBS MATERIAL IS INCLUDED IN AVAILABLE MATERIAL AND TO BE USED TO BACKFILL EBS AS DIRECTED BY THE PROJECT ENGINEER.

BASE AGGREGATE DENSE SUMMARY

CATEGORY		STATION - STATION	305.0110* BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100* WATER (FOR COMPACTION) MGAL	624.0100* WATER (FOR DUST CONTROL) MGAL
0010	MAINLINE	9565+39 WB - 9600+00 WB	1,390	6,200	150	40
		9600+00 WB - 9650+00 WB	2,360	12,800	300	75
		9650+00 WB - 9700+00 WB	2,490	12,600	300	75
		9700+00 WB - 9707+00 WB	810	3,100	80	20
		TOTALS	7,050	34,700	830	210

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

SELECT CRUSHED SUMMARY

CATEGORY		STATION - STATION	LT/RT	312.0110* SELECT CRUSHED MATERIAL TON	645.0140 GEOTEXTILE TYPE SAS SY
0010	MAINLINE	9576+08 WB - 9600+00 WB	LT	9,850	12,100
		9600+00 WB - 9650+00 WB	LT	19,600	24,100
		9650+00 WB - 9700+00 WB	LT	19,000	23,300
		9700+00 WB - 9707+00 WB	LT	2,670	3,280
		TOTALS		51,120	62,780

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

DRIVEWAYS AND FIELD ENTRANCES SUMMARY

CATEGORY		STATION	LOCATION	305.0110* BASE AGGREGATE DENSE 3/4-INCH TON
0010	MAINLINE	9602+96 WB	LT	20
		9608+18 WB	LT	20
		9635+62 WB	LT	20
		9644+63 WB	LT	20
		9667+82 WB	LT	20
		9675+53 WB	LT	30
		9702+04 WB	LT	30
		TOTAL		160

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONCRETE PAVEMENT SUMMARY

CATEGORY		STATION - STATION	SPV.0180.01 HP CONCRETE PAVEMENT 10-INCH SY	415.6000.S ROUT AND SEAL LF	416.0620 DRILLED DOWEL BARS EACH
0010	MAINLINE	9565+39 WB - 9600+00 WB	6,910	5,850	17
		9600+00 WB - 9650+00 WB	14,440	10,000	---
		9650+00 WB - 9700+00 WB	14,440	10,000	---
		9700+00 WB - 9707+00 WB	2,020	1,400	17
		TOTALS	37,810	27,250	34

CONCRETE PAVEMENT GAPS

CATEGORY	LOCATION	415.0210 EACH
0010	UNDISTRIBUTED	2

HMA PAVEMENT SUMMARY

CATEGORY		STATION - STATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON
0010	MAINLINE	9565+39 WB - 9600+00 WB	265	194	1,050
		9600+00 WB - 9650+00 WB	410	294	1,640
		9650+00 WB - 9700+00 WB	295	200	1,180
		9700+00 WB - 9707+00 WB	25	28	100
		TOTALS	995	716	3,970

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.
TACK CALCULATIONS ARE BASED ON 0.06 GALLONS PER SQUARE YARD.

RUMBLE STRIP SUMMARY

CATEGORY		STATION - STATION	LOCATION	465.0510 ASPHALTIC RUMBLE STRIPS, SHOULDER DIVIDED ROADWAY LF	602.3210 CONCRETE RUMBLE STRIPS, SHOULDER DIVIDED ROADWAY LF
0010	MAINLINE	9576+08 WB - 9600+00 WB	LT/RT	2,880	1,840
		9600+00 WB - 9650+00 WB	LT/RT	4,270	4,260
		9650+00 WB - 9700+00 WB	LT/RT	5,510	4,910
		9700+00 WB - 9713+68 WB	LT/RT	2,400	700
			TOTALS	15,060	11,710

CONCRETE CURB & GUTTER SUMMARY

CATEGORY		STATION - STATION	LOCATION	601.0553 4 INCH SLOPED 36 INCH TYPE D LF	465.0315 ASPHALTIC FLUMES SY
0010	MAINLINE	9576+08 WB - 9600+00 WB	LT	151	15
		9600+00 WB - 9650+00 WB	LT	151	27
		9650+00 WB - 9700+00 WB	LT	---	---
		9700+00 WB - 9707+00 WB	LT	---	---
			TOTALS	302	42

CULVERT PIPE SUMMARY

	DOWNSTATION			UPSTATION			520.3318* CULVERT PIPE CLASS III-A 18-INCH	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH	521.1518 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH	524.0618 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 18-INCH	633.5200 MARKERS CULVERT END
CATEGORY	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.	LF	EACH	EACH	EACH	EACH
0010	9608+02.61 WB	29.1' RT	1412.54	9608+40.61 WB	29.1' RT	1412.75	38	2	---	---	2
	---	---	---	9710+87.00 WB	32' RT	---	---	---	---	1	---
	---	---	---	9702+97.91 WB	37.8' RT	---	---	---	1	---	1
					TOTALS		38	2	1	1	3

* IF CORRUGATED STEEL IS USED, WALL THICKNESS OF 0.064 REQUIRED.

EROSION CONTROL AND FINISHING

CATEGORY		STATION - STATION	LOCATION	625.0100 TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7560 TRACKING PADS EACH	628.7570 ROCK BAGS EACH	630.0130 SEEDING MIXTURE NO. 30 LB	630.0300 SEEDING BORROW PIT LB	*630.0500 SEED WATER MGAL	629.0210 FERTILIZER TYPE B CWT
0010	MAINLINE	9565+39 WB - 9600+00 WB	LT/RT	1,550	1,550	2	---	12	---	---	351	---	180	4.9
		9600+00 WB - 9650+00 WB	LT/RT	770	770	1	---	27	---	---	440	---	220	6.2
		9650+00 WB - 9700+00 WB	LT/RT	4,020	4,020	2	72	24	---	---	590	---	290	8.2
		9700+00 WB - 9713+68 WB	LT/RT	4,440	4,440	1	12	9	---	---	311	---	160	4.4
		UNDISTRIBUTED		2,700	2,700	2	20	20	1	20	420	---	210	5.9
		WASTE SITE		---	---	---	50	---	2	---	---	345	---	34.5
		TOTALS	LT/RT	13,480	13,480	8	154	92	3	20	2,112	345	1,060	64.1

*SEED WATER QUANTITY INCLUDED FOR 4 WEEKS OF WATERING

RIPRAP SUMMARY

CATEGORY		STATION - STATION	LOCATION	606.0100 RIPRAP LIGHT CY	645.0130 GEOTEXTILE TYPE R SY
0010	MAINLINE	9576+08 WB - 9600+00 WB	LT	4	20
		9600+00 WB - 9650+00 WB	LT	23	100
		9650+00 WB - 9700+00 WB	LT	---	---
		9700+00 WB - 9707+00 WB	LT/RT	---	---
		TOTALS		27	120

PIPE UNDERDRAIN WRAPPED 6-INCH

CATEGORY		STATION	-	STATION	LOCATION	612.0406 LF
0010	MAINLINE	9576+08 WB	-	9600+00 WB	LT/RT	180
		9600+00 WB	-	9650+00 WB	LT/RT	180
		9650+00 WB	-	9700+00 WB	LT/RT	360
		9700+00 WB	-	9707+00 WB	LT/RT	---
			TOTAL			720

EROSION CONTROL MOBILIZATION SUMMARY

CATEGORY	PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	1053-07-85	8	4

DELINEATOR SUMMARY

CATEGORY	STATION - STATION	LT/RT	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS EACH
0010	9576+08 WB - 9600+00 WB	LT	8	8
	9600+00 WB - 9650+00 WB	LT	15	15
	9650+00 WB - 9700+00 WB	LT	13	13
	9700+00 WB - 9707+00 WB	LT	2	2
	TOTALS		38	38

MARKERS PERMANENT FLEXIBLE

CATEGORY	STATION - STATION	633.5350 EACH
0010	9553+63 WB - 9556+52 WB	60

CONNECTED WORK ZONES

CATEGORY	STAGE	DURATION (DAYS)	643.0810 TRAFFIC CONTROL CONNECTED ARROW BOARDS #	643.0810 TRAFFIC CONTROL CONNECTED ARROW BOARDS DAY	643.1220 TRAFFIC CONTROL CONNECTED WORK ZONE START AND END LOCATION MARKERS #	643.1220 TRAFFIC CONTROL CONNECTED WORK ZONE START AND END LOCATION MARKERS DAY	COMMENT
0010	STAGE 1 - STH 29 WB	96	1	96	1	96	SINGLE LANE CLOSURE
	STAGE 1 - STH 29 EB	96	1	96	1	96	SINGLE LANE CLOSURE
	STAGE 2 - STH 29 WB	19	1	19	1	19	SINGLE LANE CLOSURE
	STAGE 2 - STH 29 EB	19	1	19	1	19	SINGLE LANE CLOSURE
			TOTALS	230		230	

TRAFFIC CONTROL SUMMARY

			633.1100 DELINEATORS TEMPORARY	643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0900 TRAFFIC CONTROL SIGNS		643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II		
CATEGORY	STAGE	DURATION (DAYS)	EACH	EACH	DAY	QTY	DAY	EACH	EACH	QTY	DAY	QTY	DAY	QTY	DAY	CYCLES	QTY	EACH
0010	WIDTH RESTRICTION	96	---	---	---	---	---	---	---	---	---	---	---	13	1,248	---	---	---
	SIDEROADS (STAGE 1)	96	---	30	2,880	20	1,920	12	12	44	4,224	---	---	14	1,344	1	14	14
	STAGE 1	96	59	224	21,504	12	1,152	575	575	14	1,344	78	7,488	58	5,568	---	---	---
	STAGE 2	19	---	336	6,384	6	114	---	---	4	76	24	456	38	722	---	---	---
	UNDISTRIBUTED		10	---	1,300	---	200	30	30	---	300	---	400	---	500	---	---	10
	TOTALS		69		32,068		3,386	617	617		5,944		8,344		9,382			24

MOVING SIGNS TYPE II

CATEGORY	STATION	LT/RT	638.2102 EACH	REMARKS
0010	9578+03 WB	LT	1	STREET NAME SIGNS

TEMPORARY MARKING LINE

CATEGORY	STAGE		STATION - STATION	LOCATION	643.3180 REMOVABLE TAPE 6-INCH (WHITE) LF	643.3180 REMOVABLE TAPE 6-INCH (YELLOW) LF	643.3180 REMOVABLE TAPE 6-INCH (DOUBLE YELLOW) LF	643.3280 REMOVABLE TAPE 10-INCH (WHITE) LF	643.3850 STOP LINE REMOVABLE TAPE 18-INCH (WHITE) LF
0010	1	MAINLINE	9543+42 WB - 9600+00 WB	LT	6,760	1,768	8,266	200	40
			9600+00 WB - 9650+00 WB		5,000	---	10,000	---	---
			9650+00 WB - 9700+00 WB		5,000	245	10,000	---	---
			9700+00 WB - 9728+34 WB		2,368	1,717	474	---	---
		LANE CLOSURE	6595+45 WB - 9746+60 WB	LT	1,320	---	---	---	---
			SUBTOTALS		20,448	3,730	28,740	200	40
			UNDISTRIBUTED		1,020	190	1,440	---	---
			TOTALS			55,568		200	40

MARKING REMOVAL LINE

CATEGORY	STAGE	STATION - STATION	LOCATION	646.9010 MARKING REMOVAL LINE WATER BLASTING 4-INCH LF	646.9012 MARKING REMOVAL LINE WATER BLASTING 6-INCH LF	646.9112 MARKING REMOVAL LINE WATER BLASTING 10-INCH LF
0010	1	9543+42 WB - 9715+04 WB	LT	2,250	580	438
	2	6595+45 WB - 9746+60 WB	LT	165	165	---
		UNDISTRIBUTED		120	40	20
		TOTALS		2,535	785	458

PERMANENT MARKING SUMMARY

CATEGORY		STATION - STATION	646.2025 MARKING LINE GROOVED BLACK EPOXY 6-INCH (BLACK SKIP) (12.5' SEG) LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) LF	646.2050 MARKING LINE GROOVED PERMANENT TAPE 6-INCH (WHITE SKIP) (12.5' SEG) LF	646.4050 MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE) LF	646.6466 COLD WEATHER MARKING EPOXY 6-INCH (WHITE) LF	646.6466 COLD WEATHER MARKING EPOXY 6-INCH (YELLOW) LF
0010	MAINLINE	9543+42 WB - 9600+00 WB	1,170	4,440	5,880	1,170	390	1,110	1,470
		9600+00 WB - 9650+00 WB	2,500	9,740	9,770	2,500	410	2,435	2,443
		9650+00 WB - 9700+00 WB	2,500	10,000	10,000	2,500	---	2,500	2,500
		9700+00 WB - 9770+89 WB	3,540	1,730	1,730	3,540	3,620	433	433
		SUBTOTALS	9,710	25,910	27,380	9,710	4,420	6,478	6,846
		ITEM TOTALS	9,710	53,290		9,710	4,420	13,324	

PUBLIC LAND SURVEY MONUMENT VERIFY AND RESET

CATEGORY	STATION	OFFSET	680.0100 EACH
0010	9577+59 WB	24' LT	1
	9603+92 WB	26' LT	1
	9630+22 WB	27' LT	1
	9656+51 WB	41' LT	1
	9682+74 WB	21' LT	1
		TOTAL	5

TRAFFIC CONTROL SIGNS FIXED MESSAGE

CATEGORY	LOCATION	SIGN MESSAGE	SIZE IN X IN	643.1000 SF	NOTES
0010	EB STH 29 AT CTH E	HWY 29 ROAD WORK BEGINS XXX-XX	96 X 48	32	INSTALL 7 DAYS BEFORE CONSTRUCTION START
	WB STH 29 WEST OF STH 97	HWY 28 ROAD WORK BEGINS XXX-XX	96 X 48	32	INSTALL 7 DAYS BEFORE CONSTRUCTION START
	WB STH 29 AT STH 97 EXIT RAMP	WIDE LOADS EXCEEDING 14 FT	114 X 42	33	INSTALL WITH ADVANCED WARNING SIGNING
	TOTAL			97	

SAWING

CATEGORY	STAGE	STATION - STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF
0010	STAGE 1	9565+39 WB - 9600+00 WB	LT/RT	150	1,069
		9600+00 WB - 9650+00 WB	RT	264	---
		9650+00 WB - 9700+00 WB	RT	726	---
		9700+00 WB - 9713+68 WB	LT/RT	2,202	26
		TOTALS		3,342	1,095

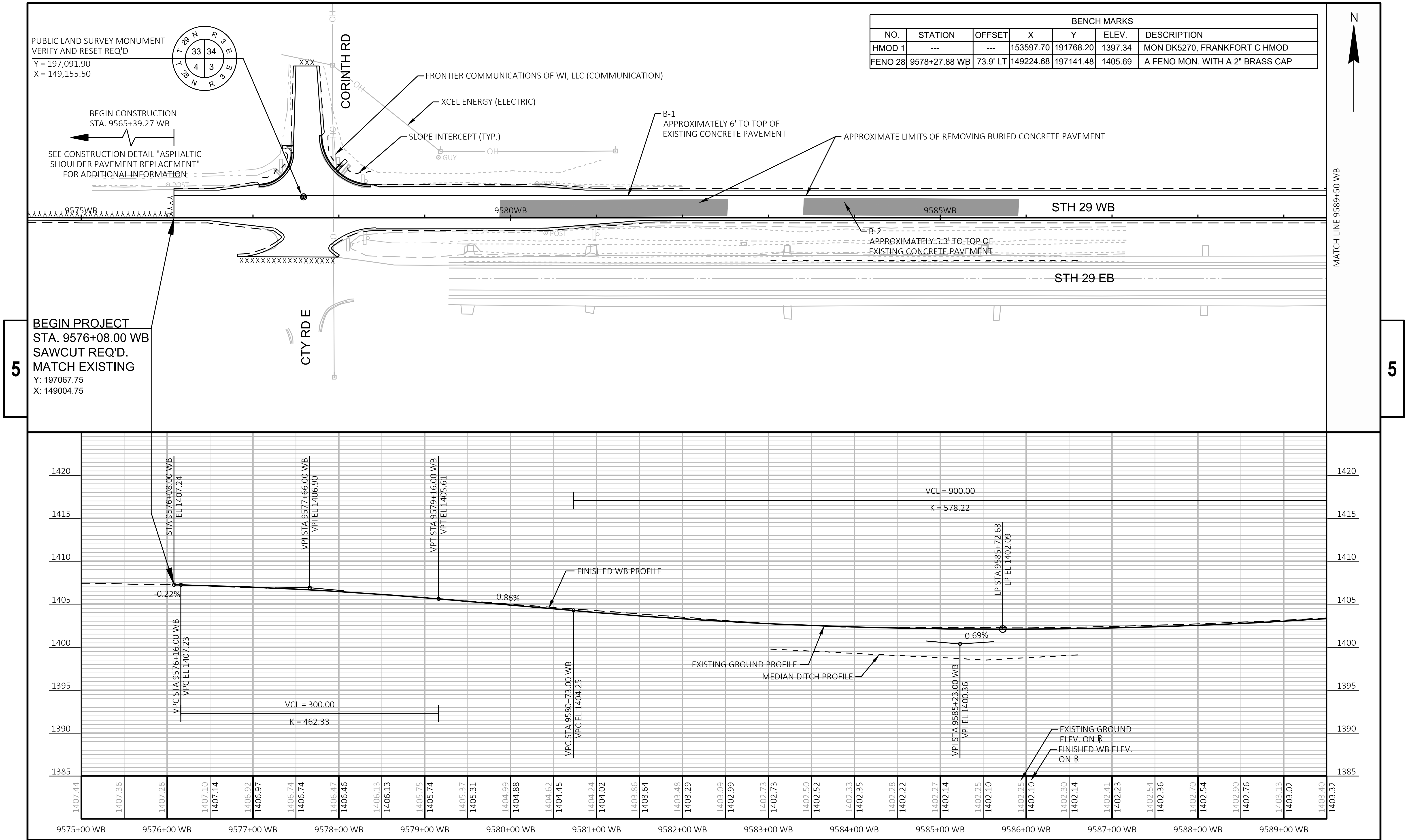
CONSTRUCTION STAKING SUMMARY

CATEGORY		STATION - STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	MAINLINE	9576+08 WB - 9600+00 WB	LT/RT	2,392	935	151	---	2,392	2,392
		9600+00 WB - 9650+00 WB	LT/RT	5,000	740	151	1	5,000	5,000
		9650+00 WB - 9700+00 WB	LT/RT	5,000	---	---	---	5,000	5,000
		9700+00 WB - 9707+00 WB	LT/RT	700	---	---	---	700	700
		TOTALS		13,092	1,675	302	1	13,092	13,092

GRADING AND SHAPING DITCH

CATEGORY	STATION - STATION	LOCATION	SPV.0090.01 LF
0010	9583+00 WB - 9586+60 WB	RT	360
	9595+00 WB - 9595+70 WB	RT	70
	9607+30 WB - 9607+96 WB	RT	66
	9608+46 WB - 9610+00 WB	RT	154
	9654+47 WB - 9658+62 WB	RT	415
		TOTAL	1,065

NOTE: SEE CROSS SECTIONS AND EARTHWORK DATA SHEETS FOR ADDITIONAL INFORMATION ON GRADING AND SHAPING LOCATIONS.

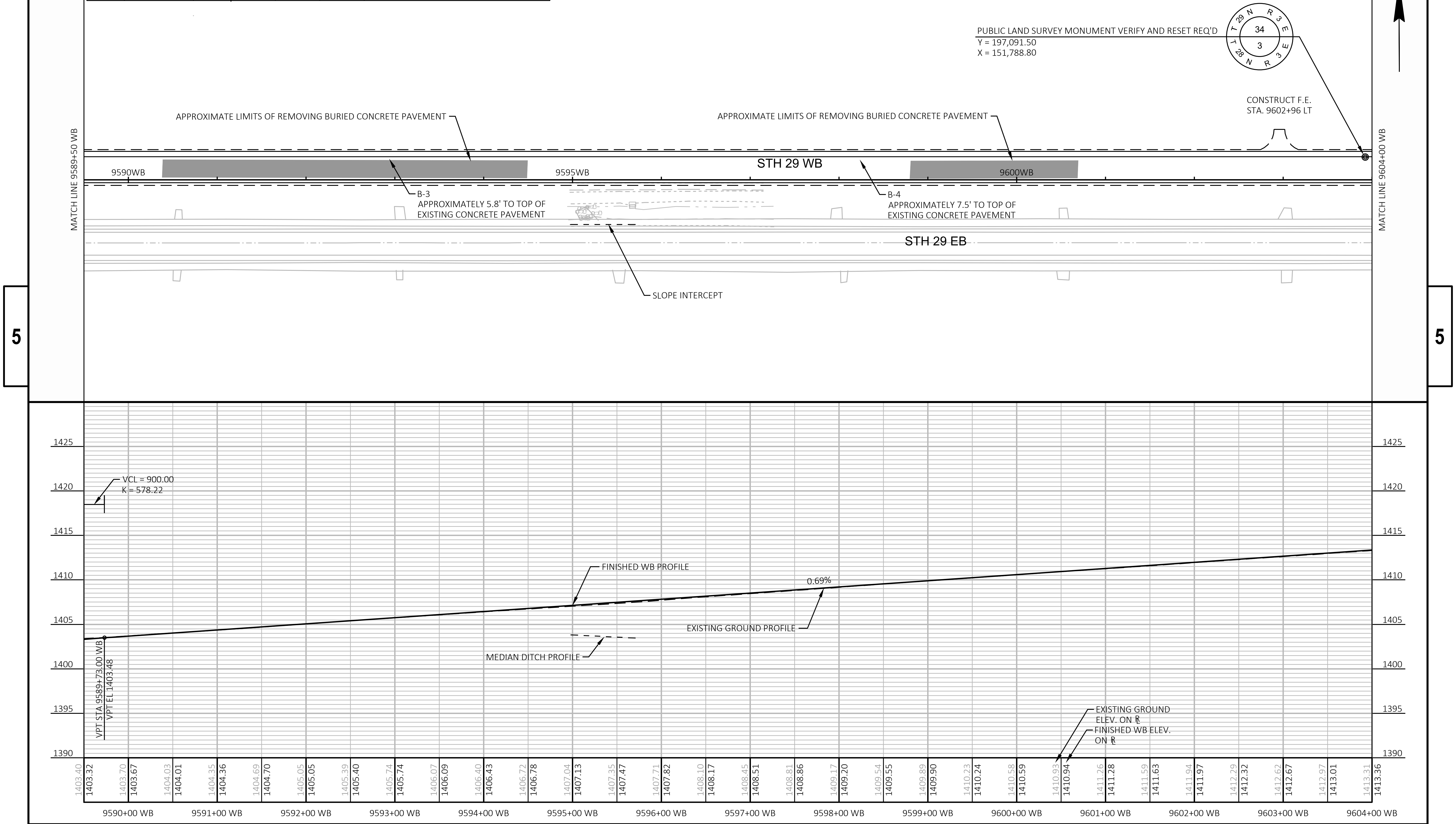


BENCH MARKS						
NO.	STATION	OFFSET	X	Y	ELEV.	DESCRIPTION
HMOD 1	---	---	153597.70	191768.20	1397.34	MON DK5270, FRANKFORT C HMOD
FENO 28	9578+27.88 WB	73.9' LT	149224.68	197141.48	1405.69	A FENO MON. WITH A 2" BRASS CAP

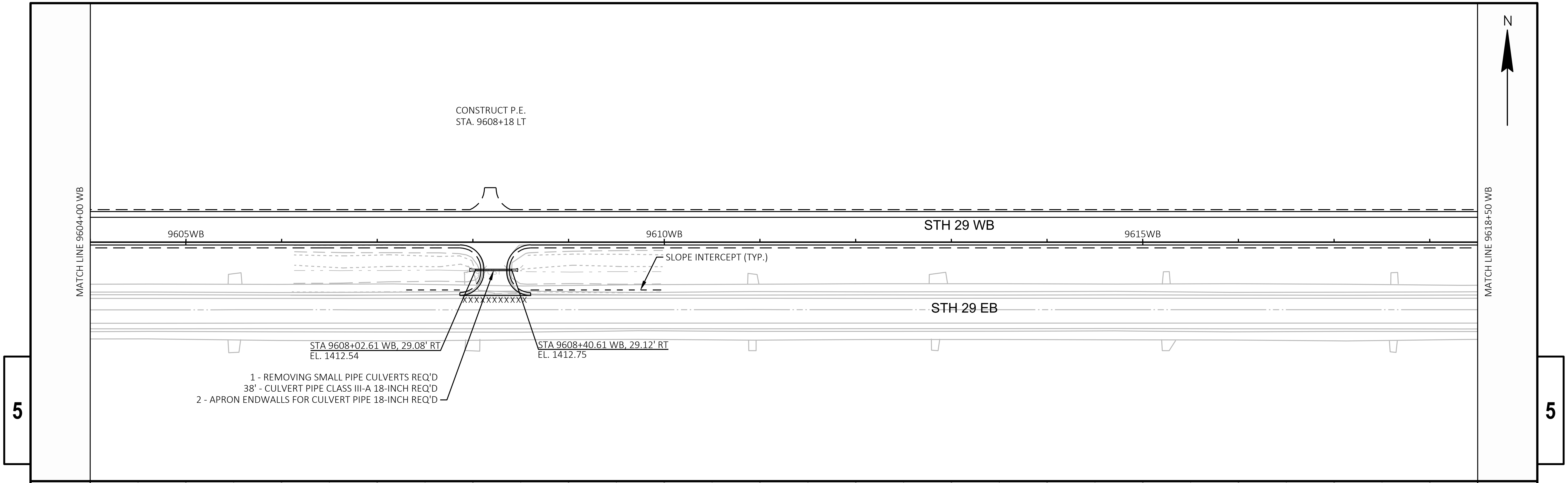
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN AND PROFILE: WB MAINLINE	SHEET 62	E

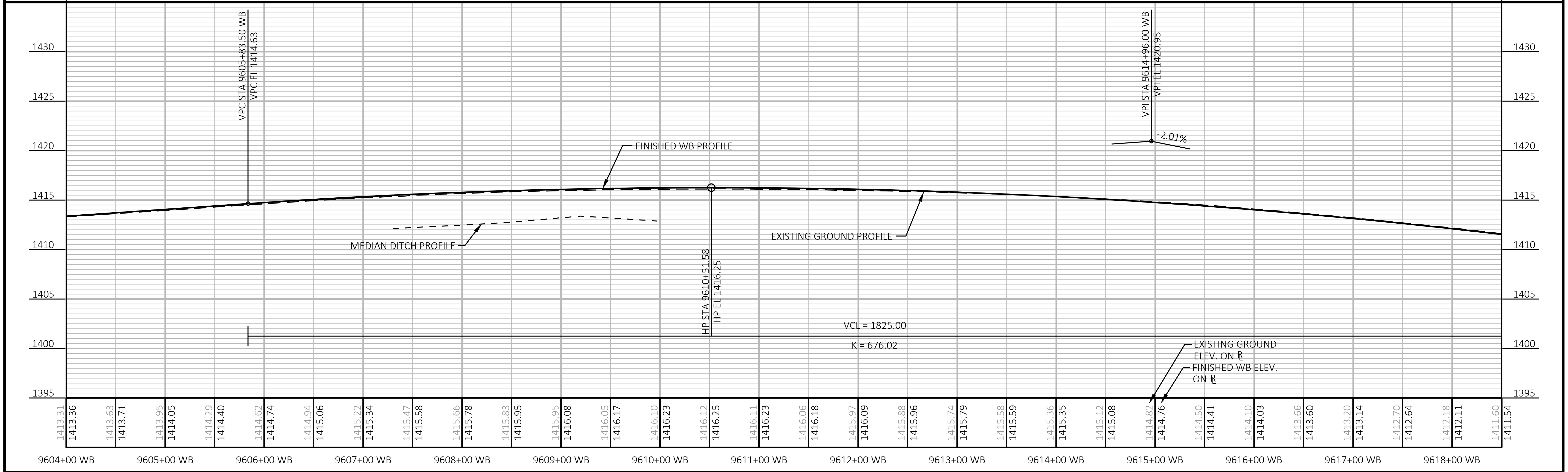
BENCH MARKS

NO.	STATION	OFFSET	X	Y	ELEV.	DESCRIPTION
FENO 27	9578+27.88 WB	84.7' LT	150855.10	197151.24	1398.16	A FENO MON. WITH A 2" BRASS CAP



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN AND PROFILE: WB MAINLINE	SHEET 63	E

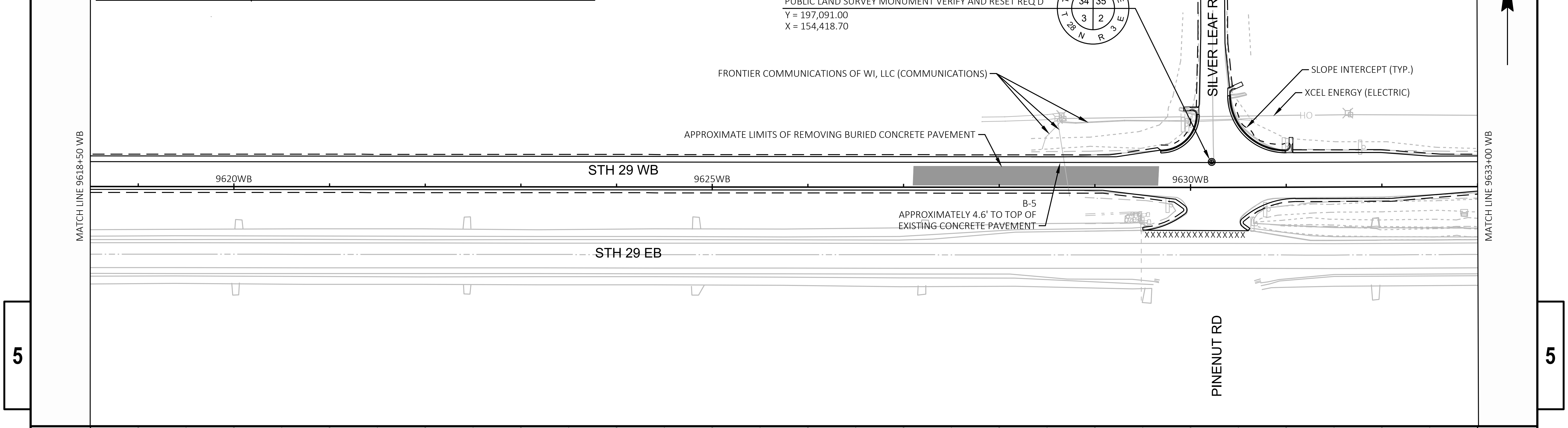


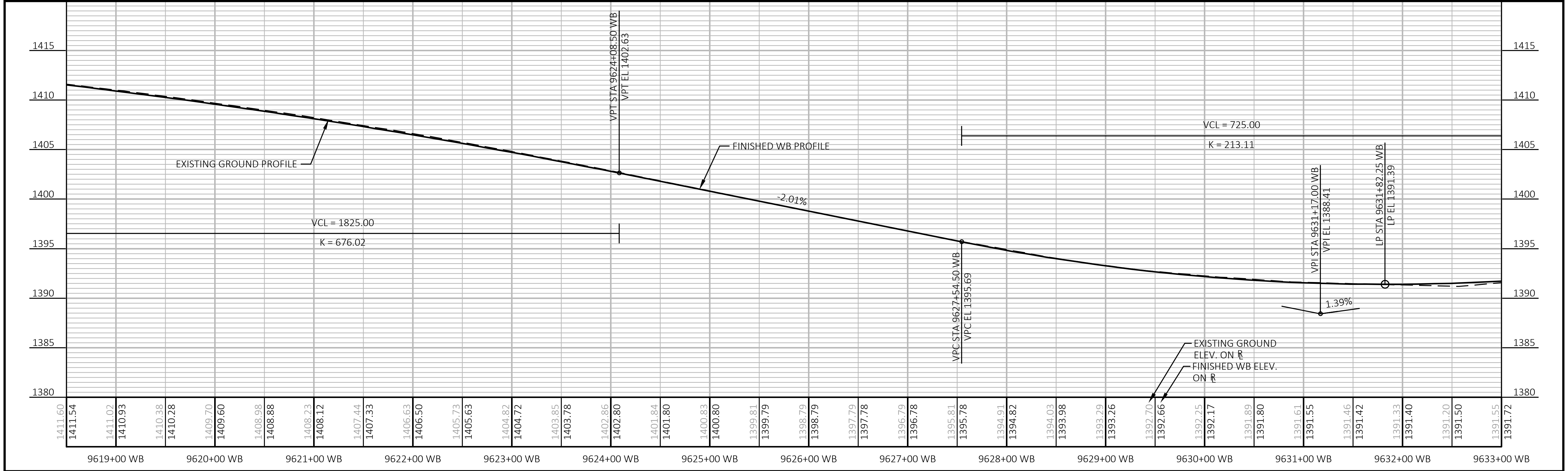


PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN AND PROFILE: WB MAINLINE	SHEET 64	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\050101-PP.DWG
LAYOUT NAME - 050103-pp
PLOT DATE : 4/21/2026 12:56 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

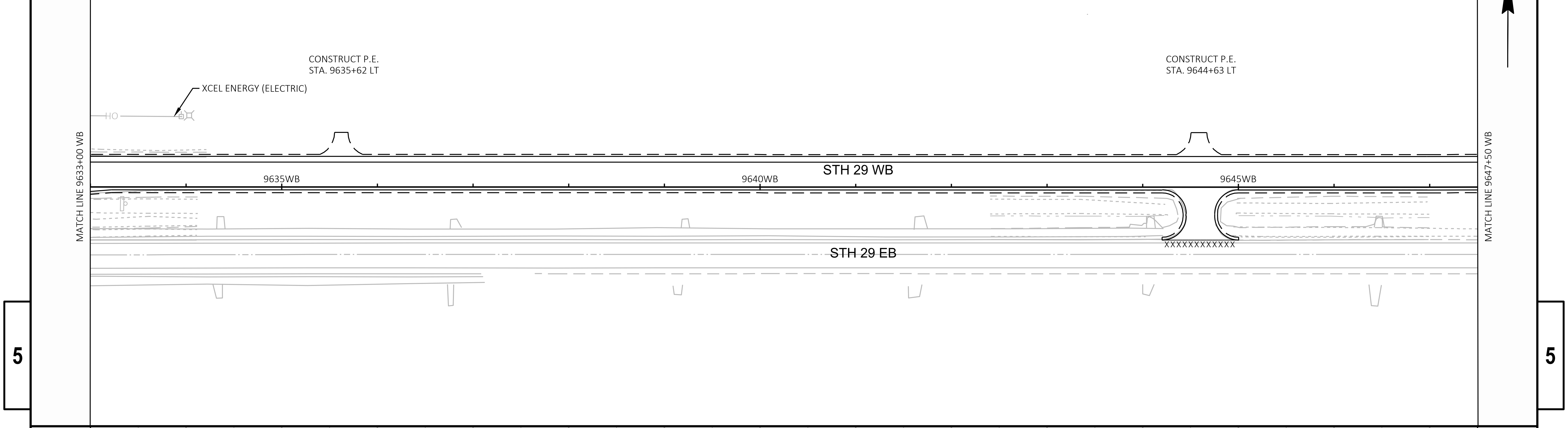
BENCH MARKS						
NO.	STATION	OFFSET	X	Y	ELEV.	DESCRIPTION
FENO 26	9622+23.88 WB	76.7' LT	153620.68	197141.62	1404.93	A FENO MON. WITH A 2" BRASS CAP

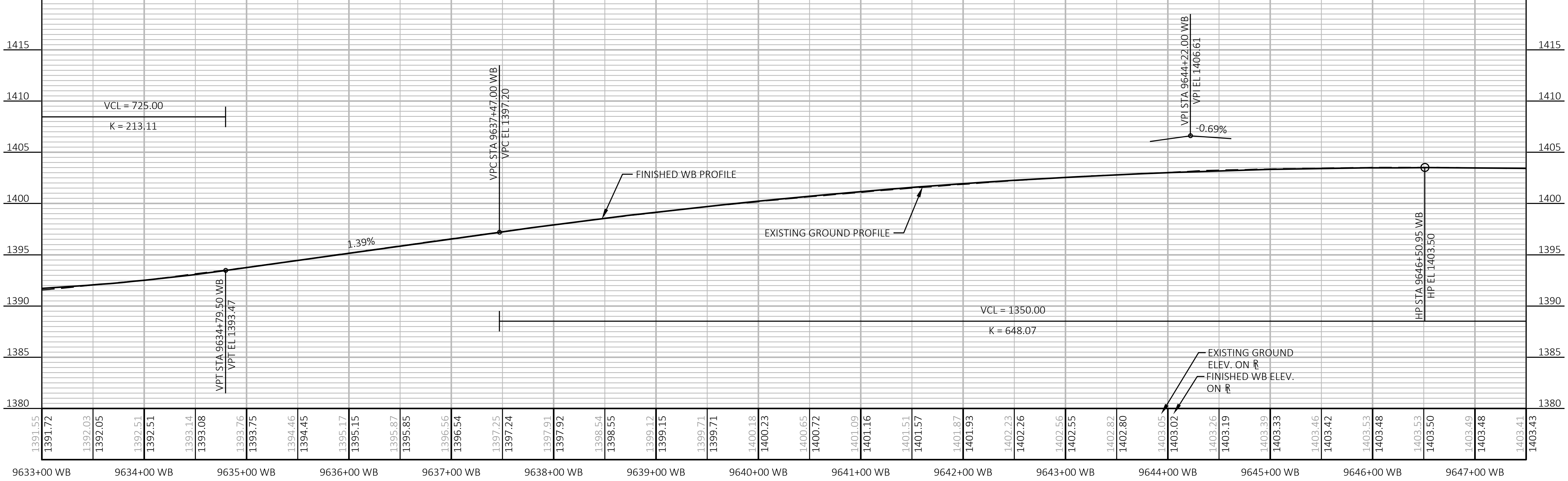




PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | PLAN AND PROFILE: WB MAINLINE | SHEET 65 | E

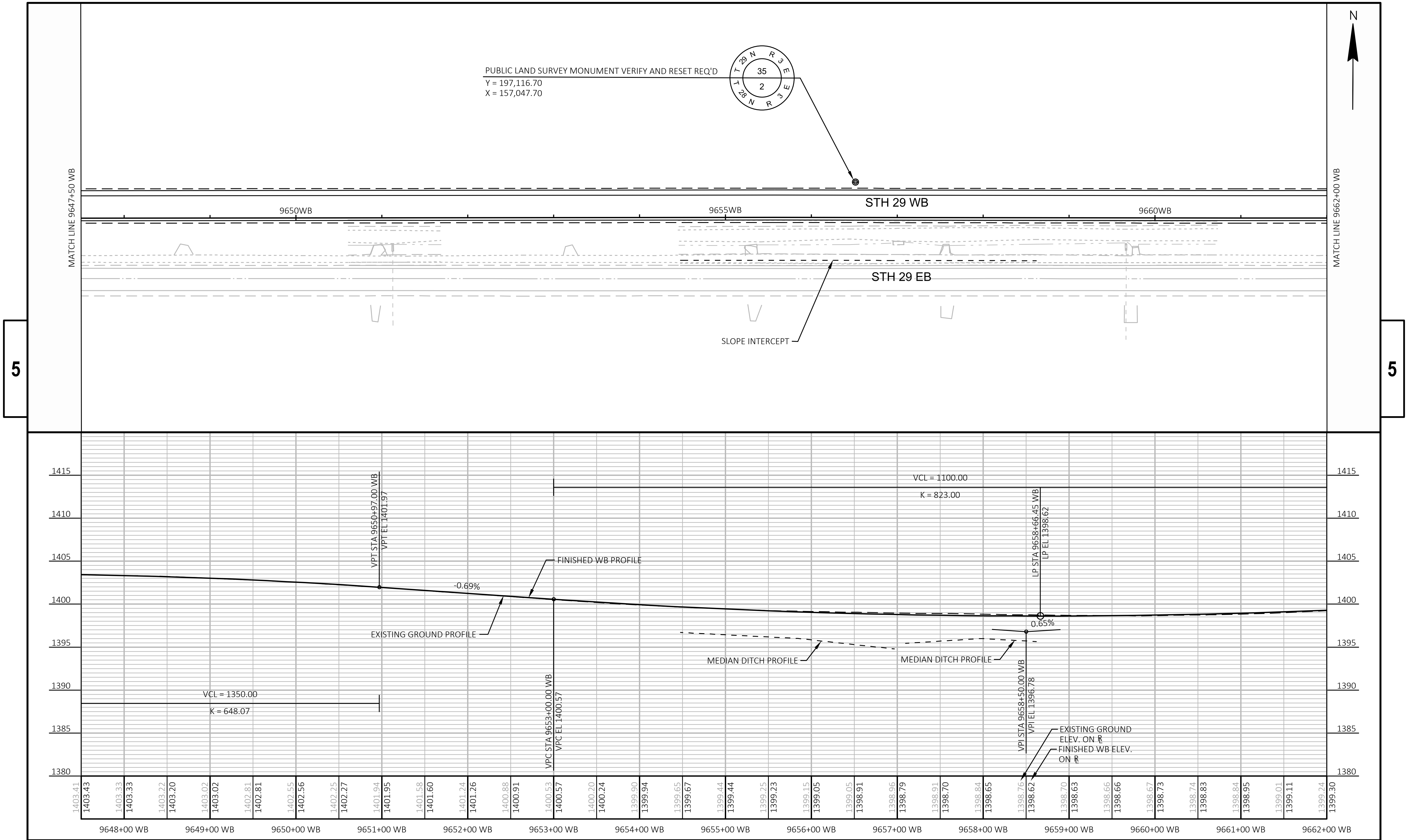
BENCH MARKS						
NO.	STATION	OFFSET	X	Y	ELEV.	DESCRIPTION
FENO 25	9647+11.15 WB	81.7' LT	156107.47	197152.71	1401.34	A FENO MON. WITH A 2" BRASS CAP





PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | PLAN AND PROFILE: WB MAINLINE | SHEET 66 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\050101-PP.DWG
LAYOUT NAME - 050105-pp
PLOT DATE : 2/20/2026 7:14 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

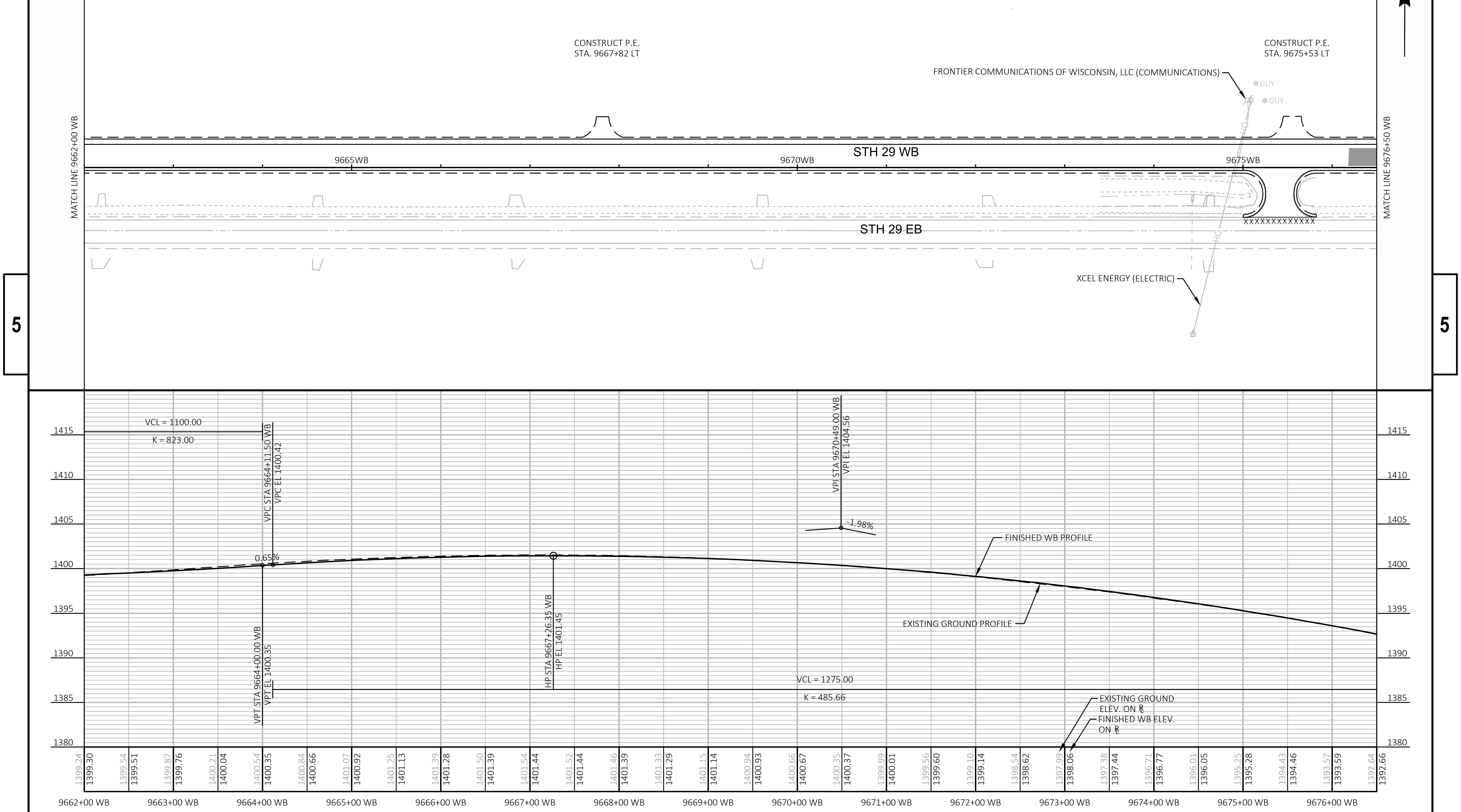


PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN AND PROFILE: WB MAINLINE	SHEET 67	E

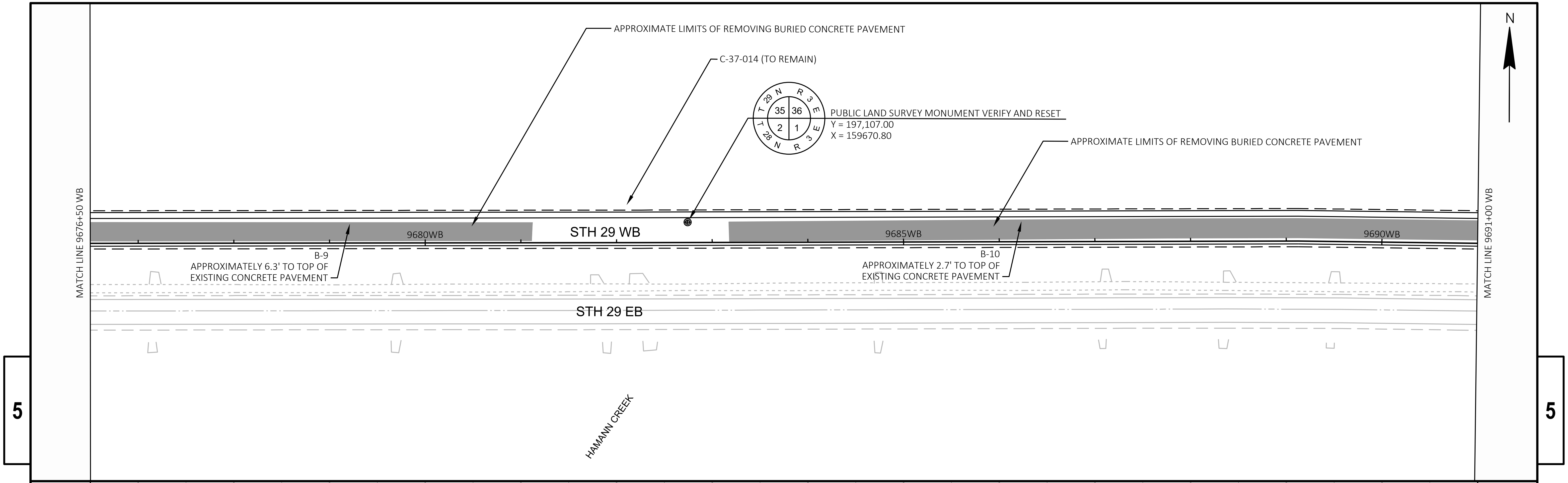
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\050101-PP.DWG
LAYOUT NAME - 050106-pp

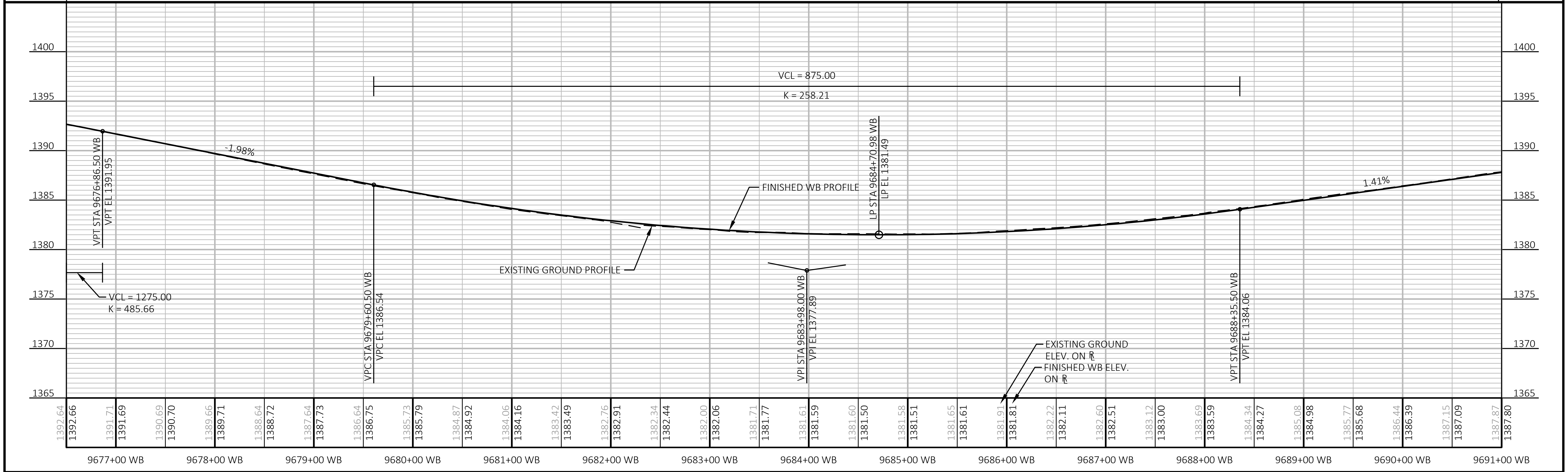
PLOT DATE : 2/20/2026 7:14 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

BENCH MARKS						
NO.	STATION	OFFSET	X	Y	ELEV.	DESCRIPTION
FENO 24	9672+16.80 WB	76.5' LT	158613.19	197157.83	1407.50	A FENO MON. WITH A 2" BRASS CAP



PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | PLAN AND PROFILE: WB MAINLINE | SHEET 68 | E



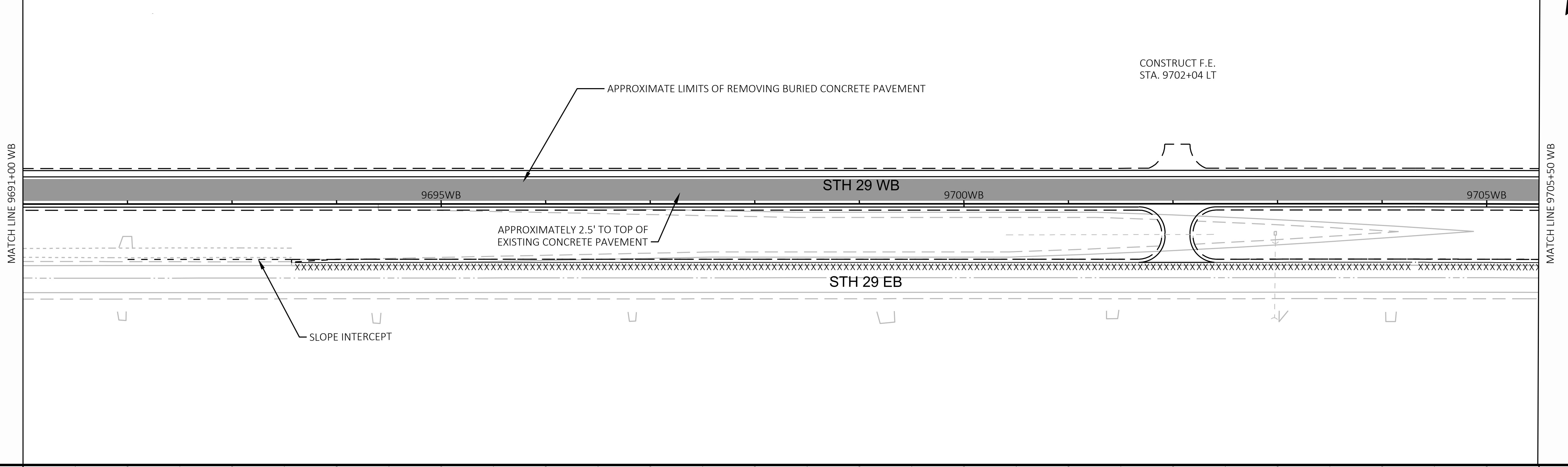


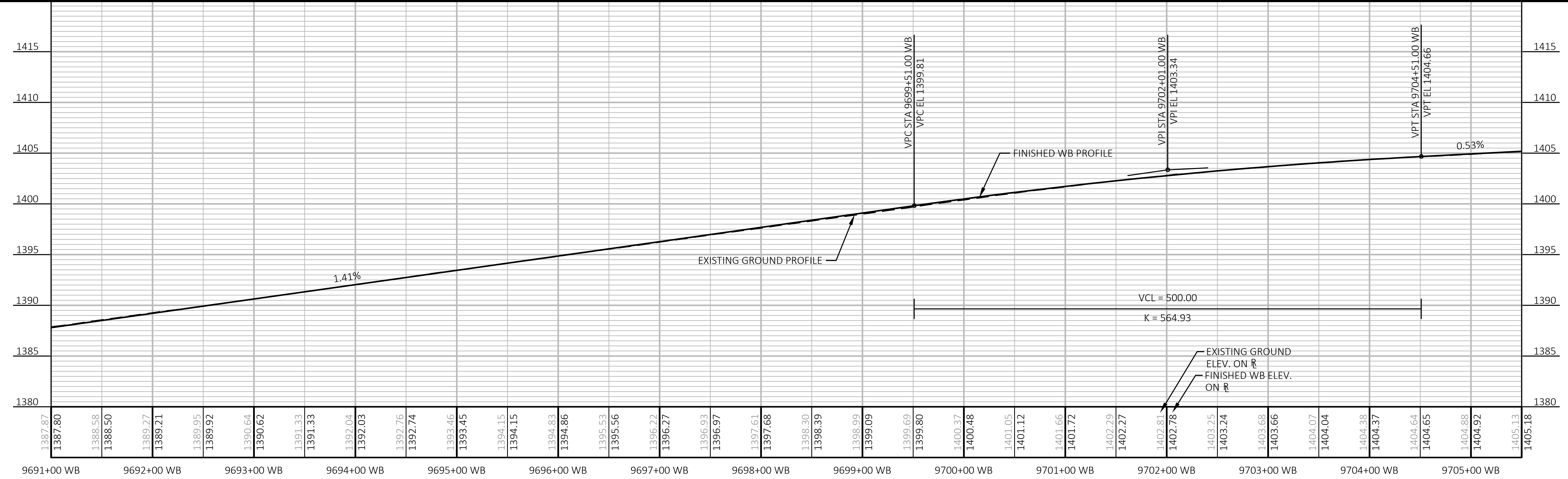
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN AND PROFILE: WB MAINLINE	SHEET 69 E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\050101-PP.DWG
LAYOUT NAME - 050108-pp

PLOT DATE : 5/29/2026 1:11 PM PLOT BY : JACK, ROBERT A. PLOT NAME : PLOT SCALE : 1 IN:100 FT

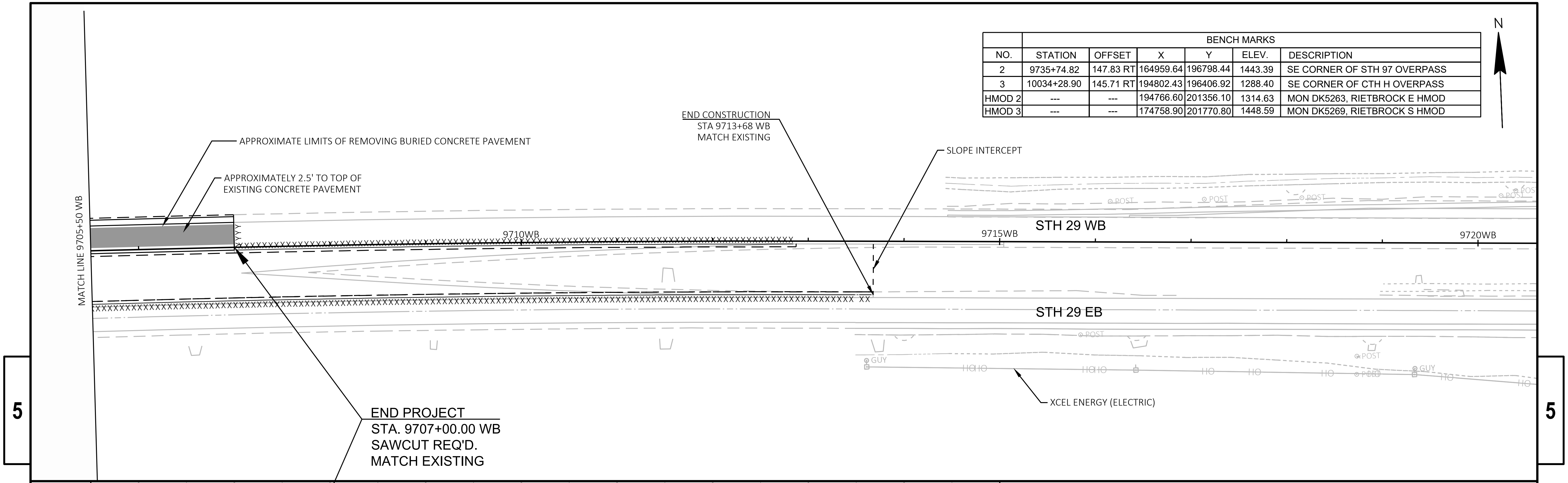
BENCH MARKS						
NO.	STATION	OFFSET	X	Y	ELEV.	DESCRIPTION
FENO 23	9697+02.98 WB	62.0' LT	161100.24	197143.44	1392.05	A FENO MON. WITH A 2" BRASS CAP



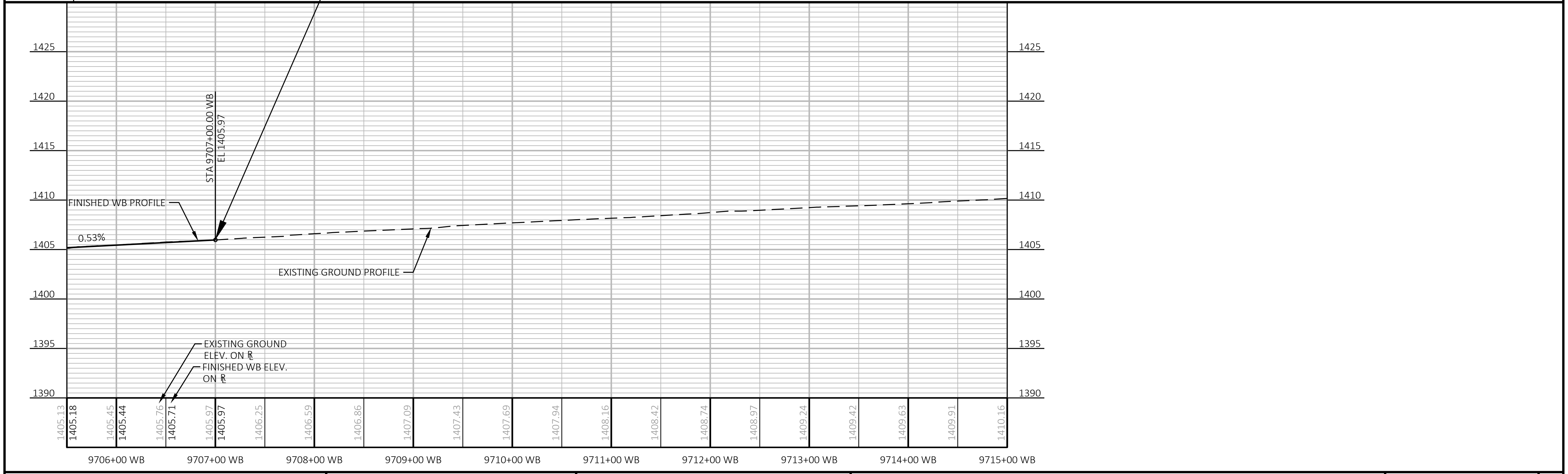


PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN AND PROFILE: WB MAINLINE	SHEET 70	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\050101-PP.DWG
LAYOUT NAME - 050109-pp
PLOT DATE : 5/29/2026 1:12 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



BENCH MARKS						
NO.	STATION	OFFSET	X	Y	ELEV.	DESCRIPTION
2	9735+74.82	147.83 RT	164959.64	196798.44	1443.39	SE CORNER OF STH 97 OVERPASS
3	10034+28.90	145.71 RT	194802.43	196406.92	1288.40	SE CORNER OF CTH H OVERPASS
HMOD 2	---	---	194766.60	201356.10	1314.63	MON DK5263, RIETBROCK E HMOD
HMOD 3	---	---	174758.90	201770.80	1448.59	MON DK5269, RIETBROCK S HMOD

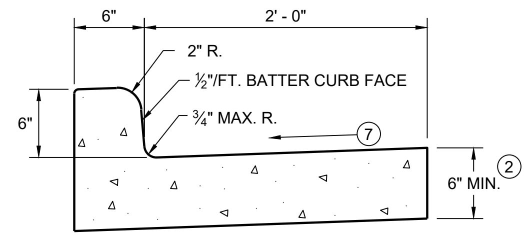


PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	PLAN AND PROFILE: WB MAINLINE	SHEET 71	E

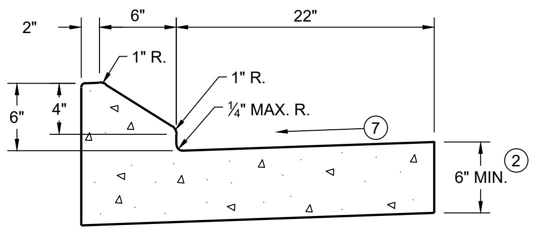
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\050101-PP.DWG
LAYOUT NAME - 050110-pp
PLOT DATE : 5/29/2026 1:14 PM
PLOT BY : JACK, ROBERT A.
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

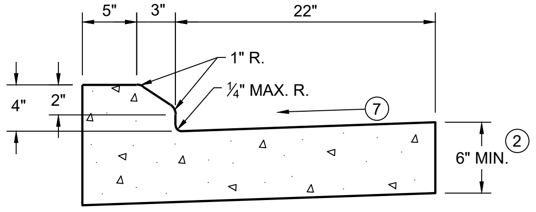
08D01-24A	CONCRETE CURB & GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
11A01-06	MAINTENANCE CROSSOVER FOR FREEWAYS
13A05-06A	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
13A05-06B	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-15A	RURAL DOWELED CONCRETE PAVEMENT
13C11-15B	RURAL DOWELED CONCRETE PAVEMENT
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-08F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C19-03	HMA LONGITUDINAL JOINTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-08A	FLEXIBLE DELINEATOR POST
15A04-08C	DELINEATOR POST WITH REFLECTIVE SHEETING
15A04-08D	CHANNELIZING DEVICES, PERMANENT FLEXIBLE TUBULAR MARKER POST
15A04-08E	DELINEATOR POST WITH REFLECTIVE SHEETING
15C02-10A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-10B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-10F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-24C	PAVEMENT MARKING (TURN LANES)
15C08-24D	PAVEMENT MARKING (TURN LANES)
15C11-11A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-11B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C19-11C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-08C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D06-07	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D09-08	TRAFFIC CONTROL, SINGLE LANE CROSSOVER EXIT
15D11-10	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-16A	TRAFFIC CONTROL, LANE CLOSURE
15D12-16B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-08C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-08D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-05	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D43-03	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS



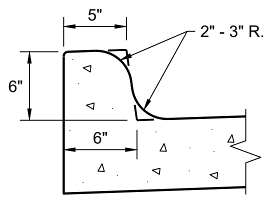
TYPES A① & D



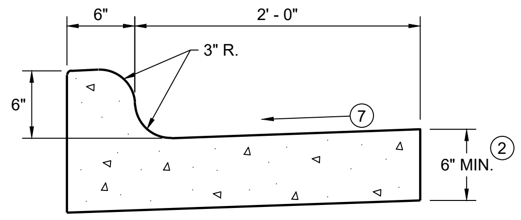
6" SLOPED CURB TYPES G ① & J



4" SLOPED CURB TYPES G ① & J

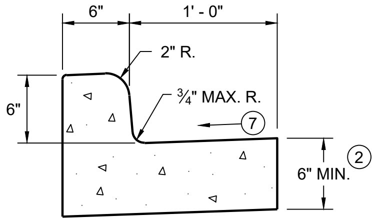


TYPES K ① & L
(OPTIONAL CURB SHAPE)



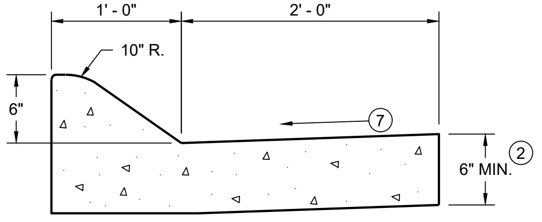
TYPES K ① & L

CONCRETE CURB AND GUTTER 30"

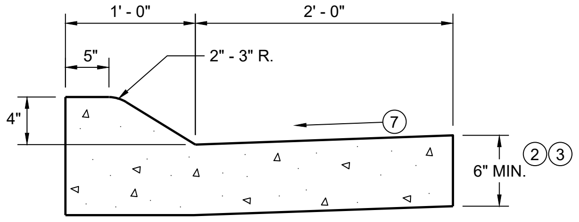


TYPES A ① & D

CONCRETE CURB AND GUTTER 18"

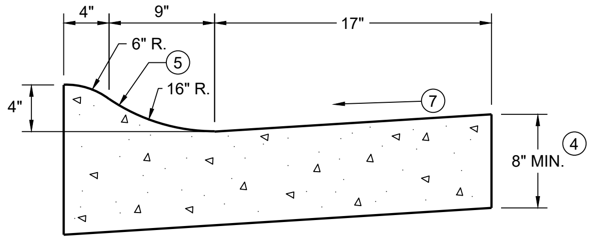


6" SLOPED CURB TYPES A ① & D



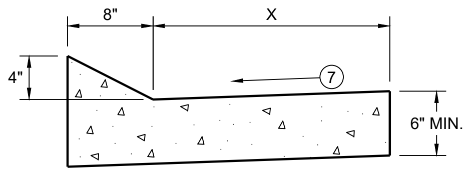
4" SLOPED CURB TYPES A ① & D

CONCRETE CURB AND GUTTER 36"



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

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



TYPES TBT & TBTT ①

CONCRETE CURB AND GUTTER

GENERAL NOTES

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

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

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

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

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

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

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

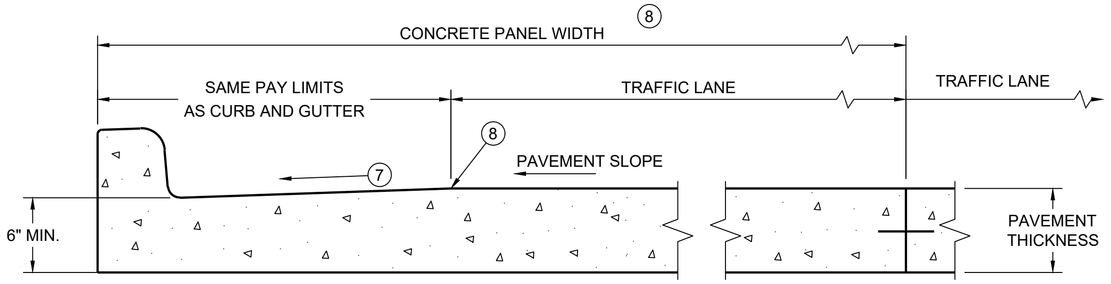
⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

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

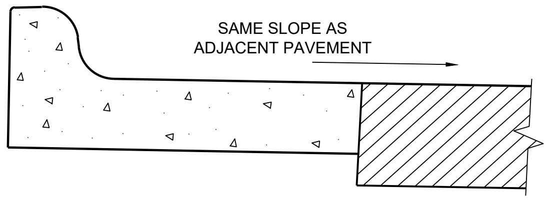
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

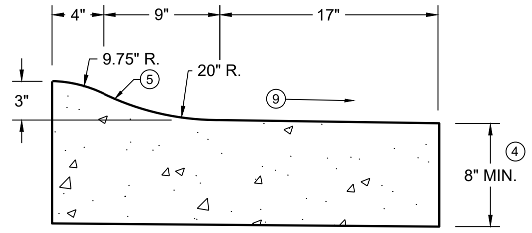


PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER *

* BIKE LANE IS NOT SHOWN



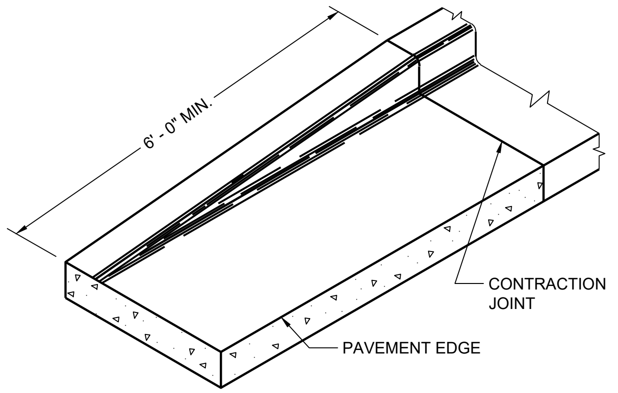
REVERSE SLOPE GUTTER ⑥
(TYPICAL FOR ALL CURB & GUTTER TYPES)



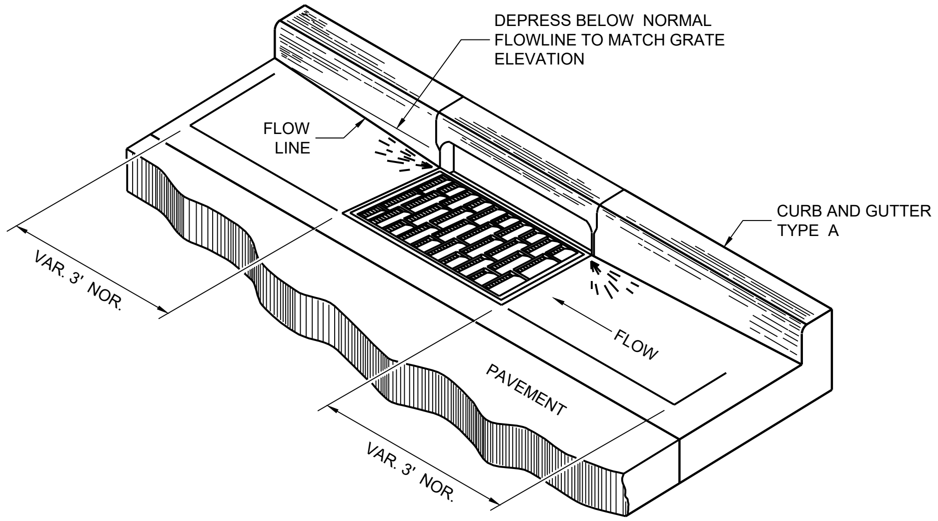
3" SLOPED CURB TYPES R① & T

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

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

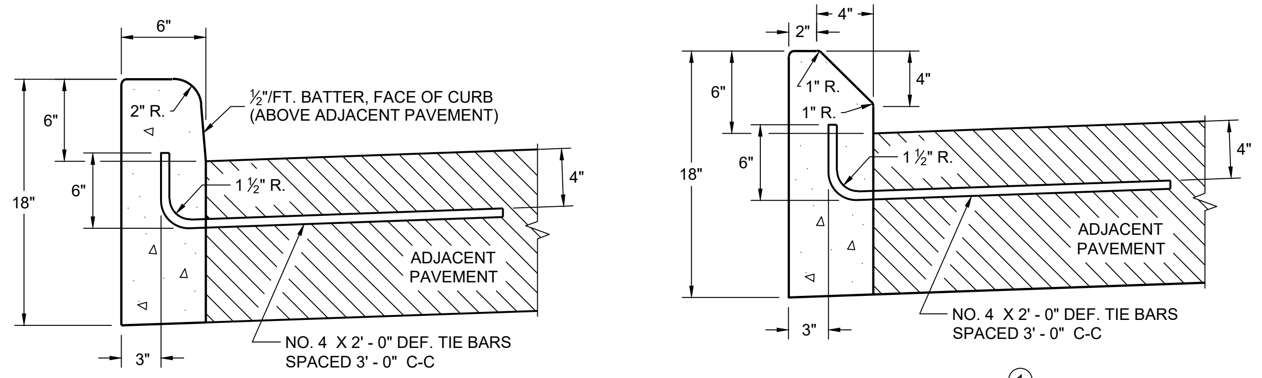
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

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

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

⑩ REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

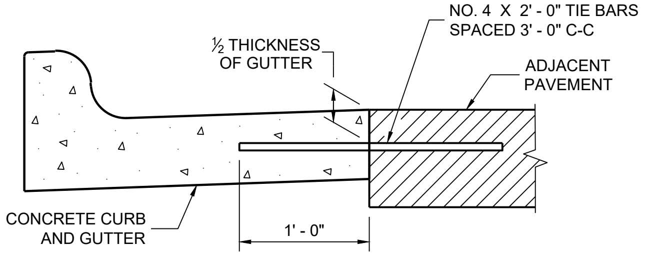
⑪ PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.



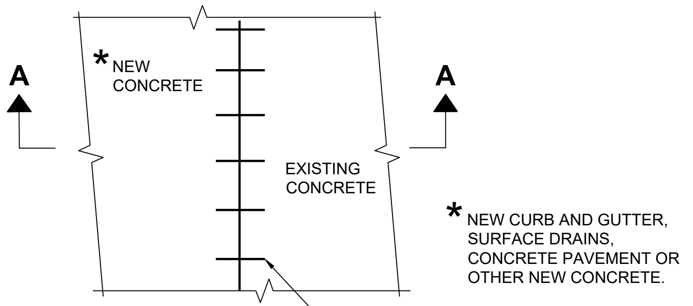
TYPES A① & D

TYPES G① & J

CONCRETE CURB

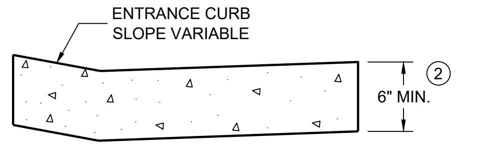


TYPICAL TIE BAR LOCATION ①



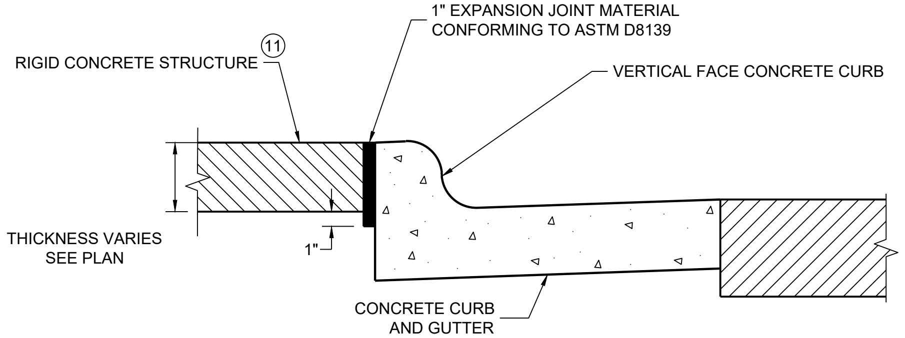
*NEW CURB AND GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

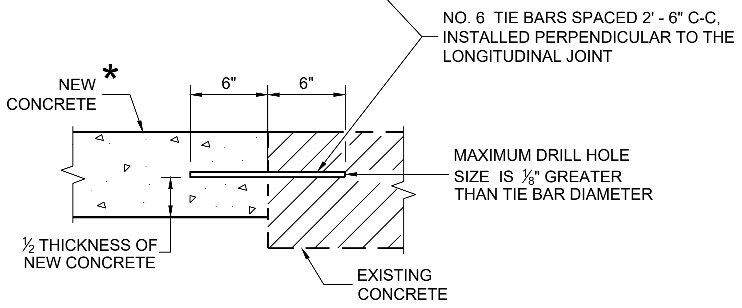


DRIVEWAY ENTRANCE CURB ⑩

(WHEN DIRECTED BY THE ENGINEER)



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE ⑪



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT

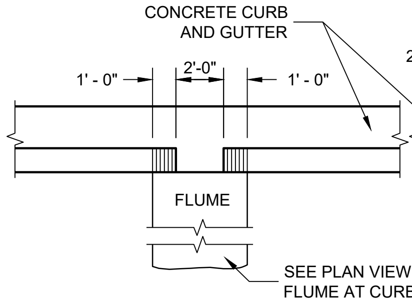
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

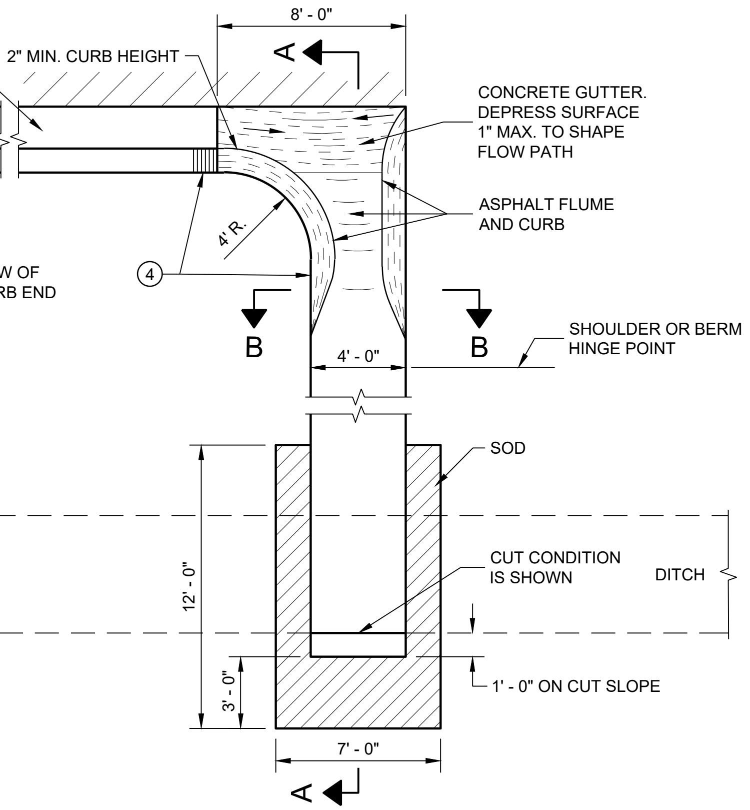
APPROVED
February 2025
DATE
/S/ Rodnery Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME



PLAN VIEW
FLUME AT CURB END

GENERAL NOTES

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

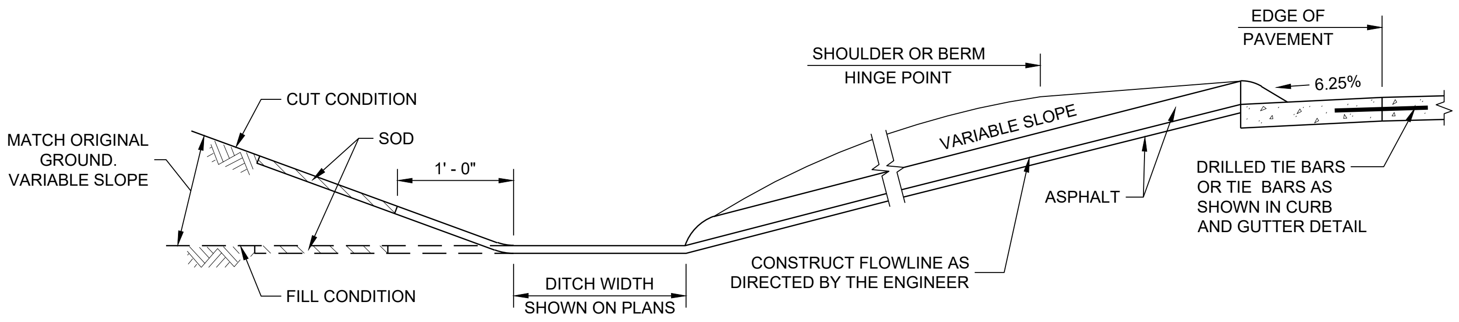
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$" TO $\frac{1}{4}$" WIDE BY 1$\frac{1}{2}$" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

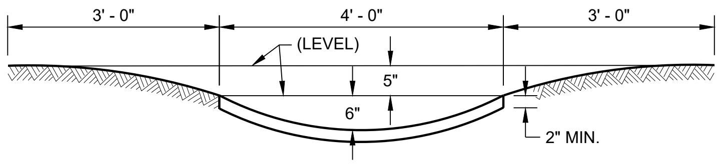
② GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.

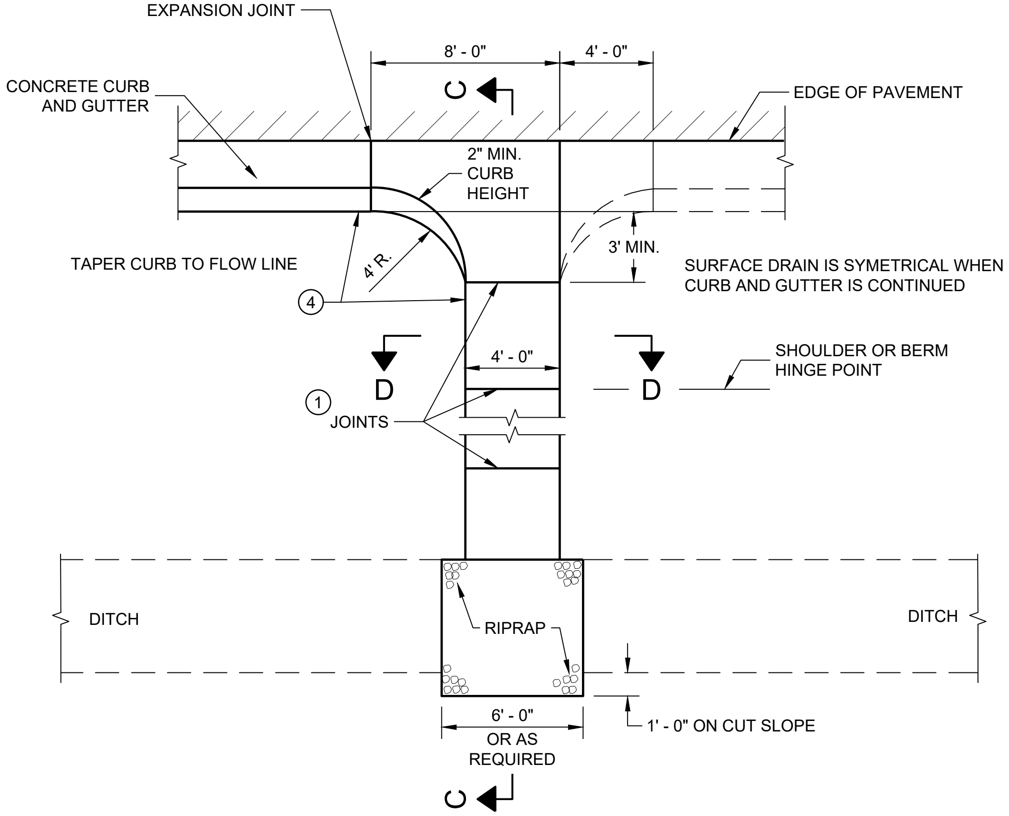
④ ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.



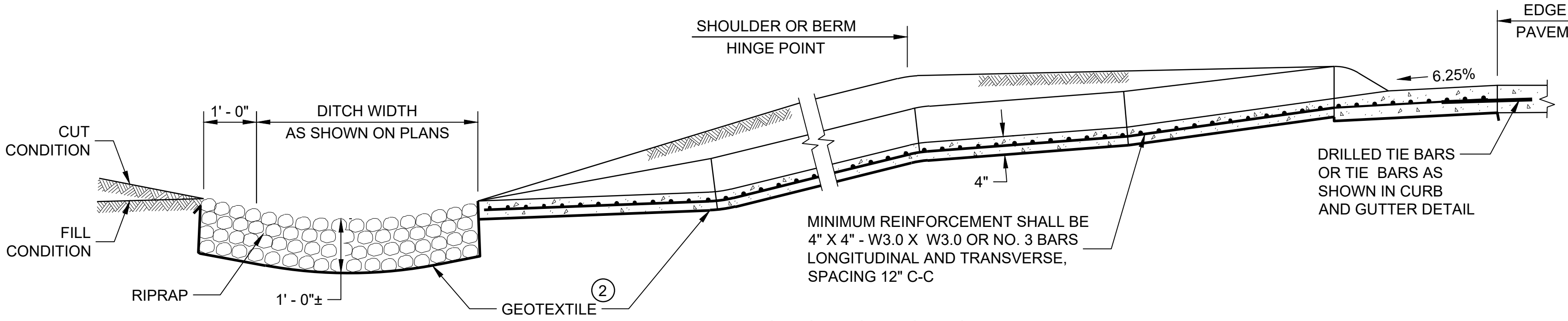
SECTION A - A



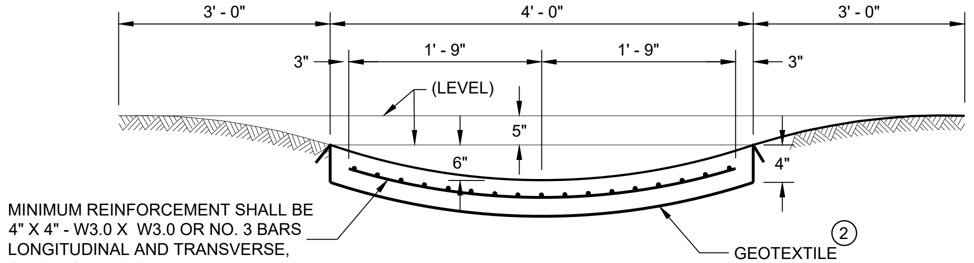
SECTION B - B



PLAN VIEW
CONCRETE SURFACE DRAIN



SECTION C - C

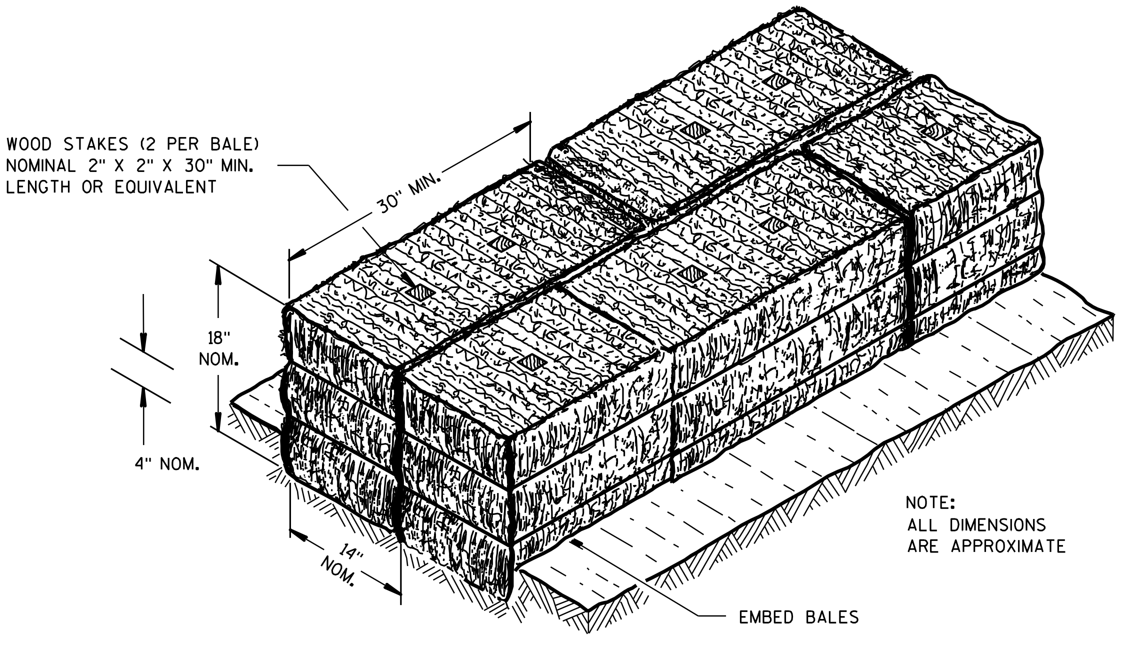


SECTION D - D

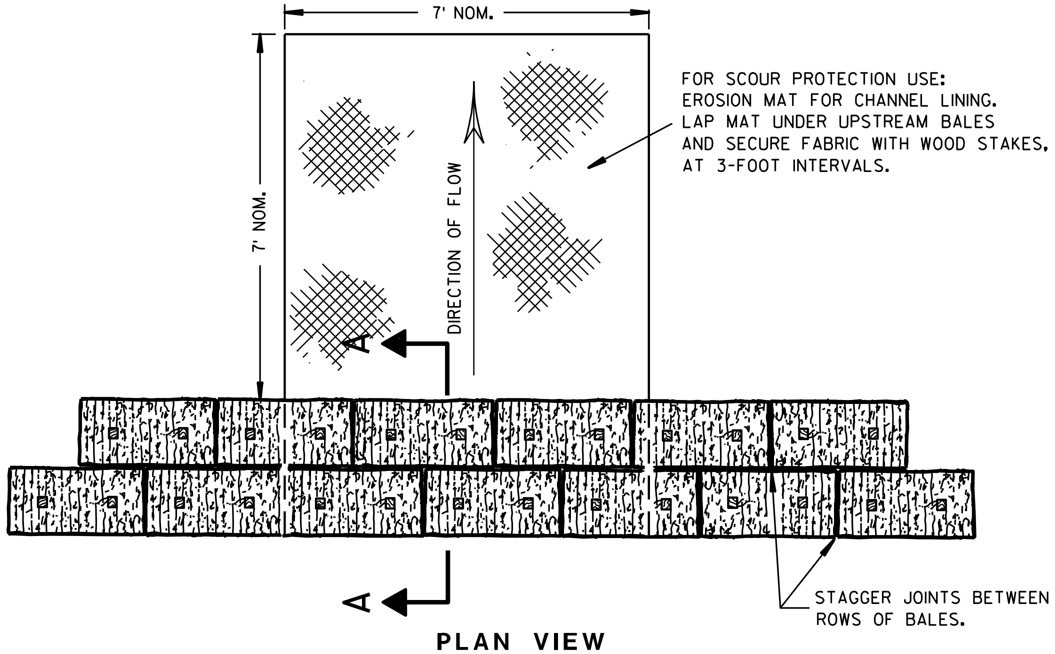
CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

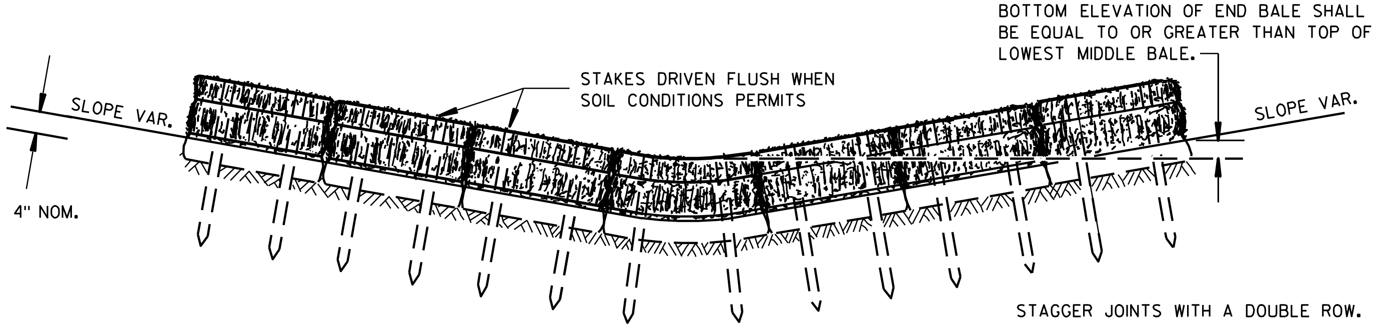
APPROVED
May 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER
FHWA



SECTION A-A



PLAN VIEW



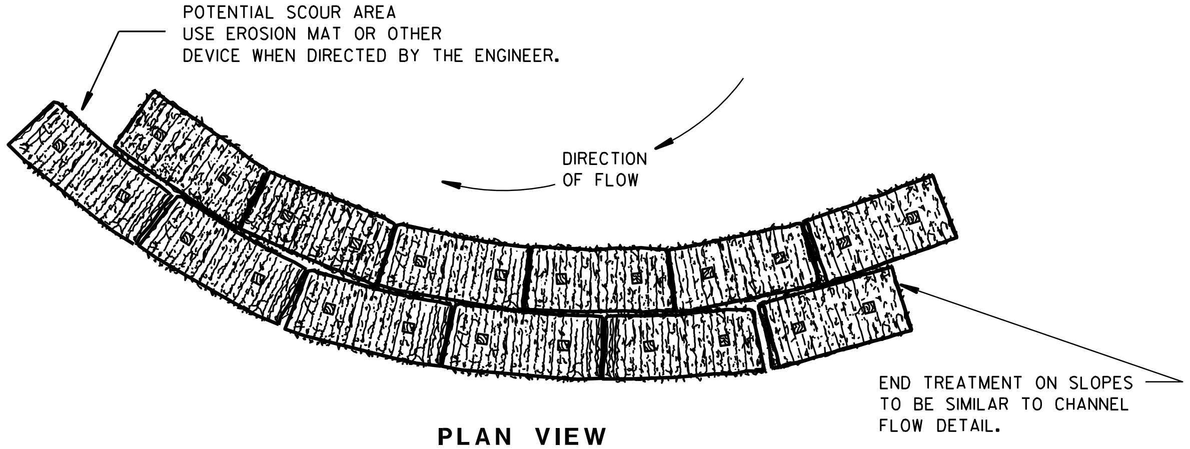
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

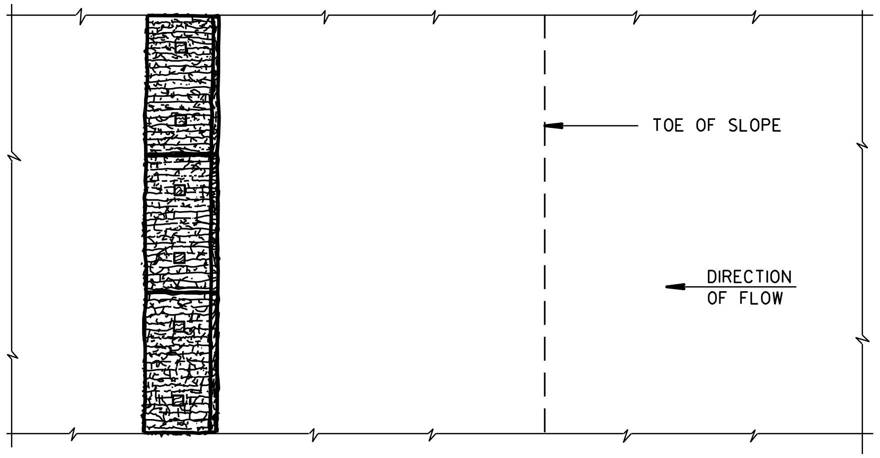
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

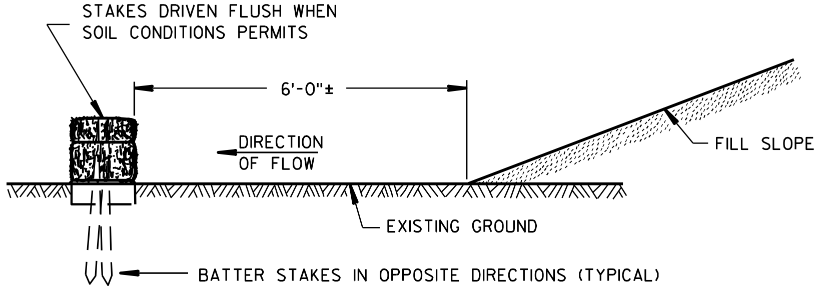


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

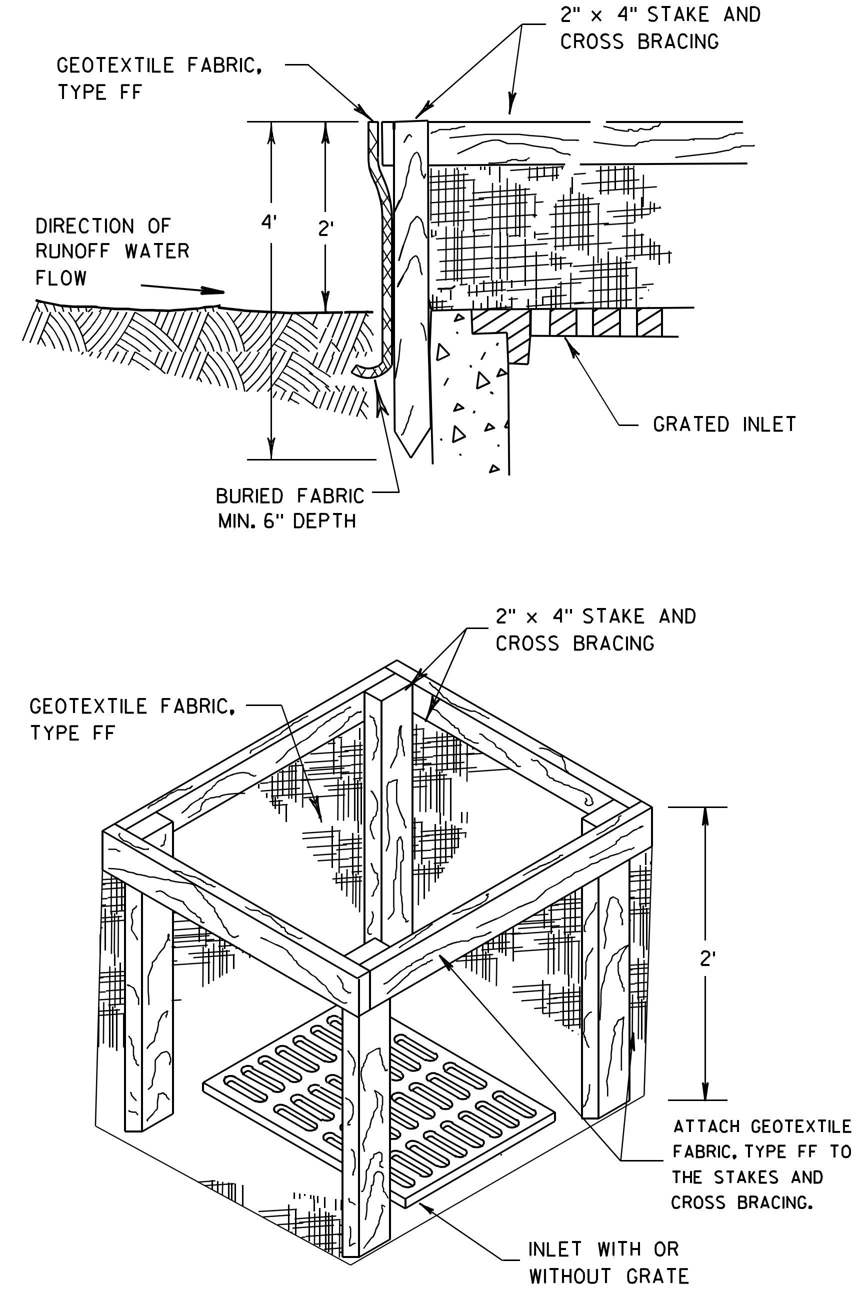
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

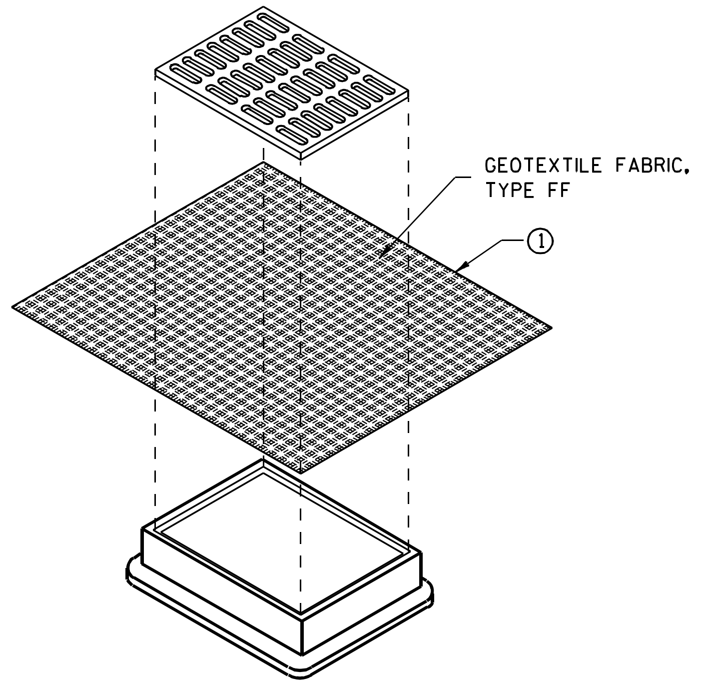
TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 /S/ Beth Cann
DATE CHIEF ROADWAY DEVELOP GINEER
FHWA

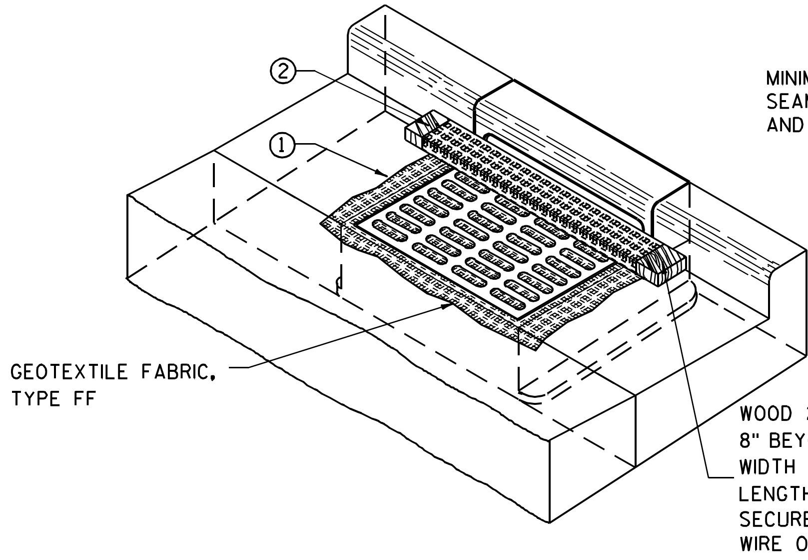


INLET PROTECTION, TYPE A

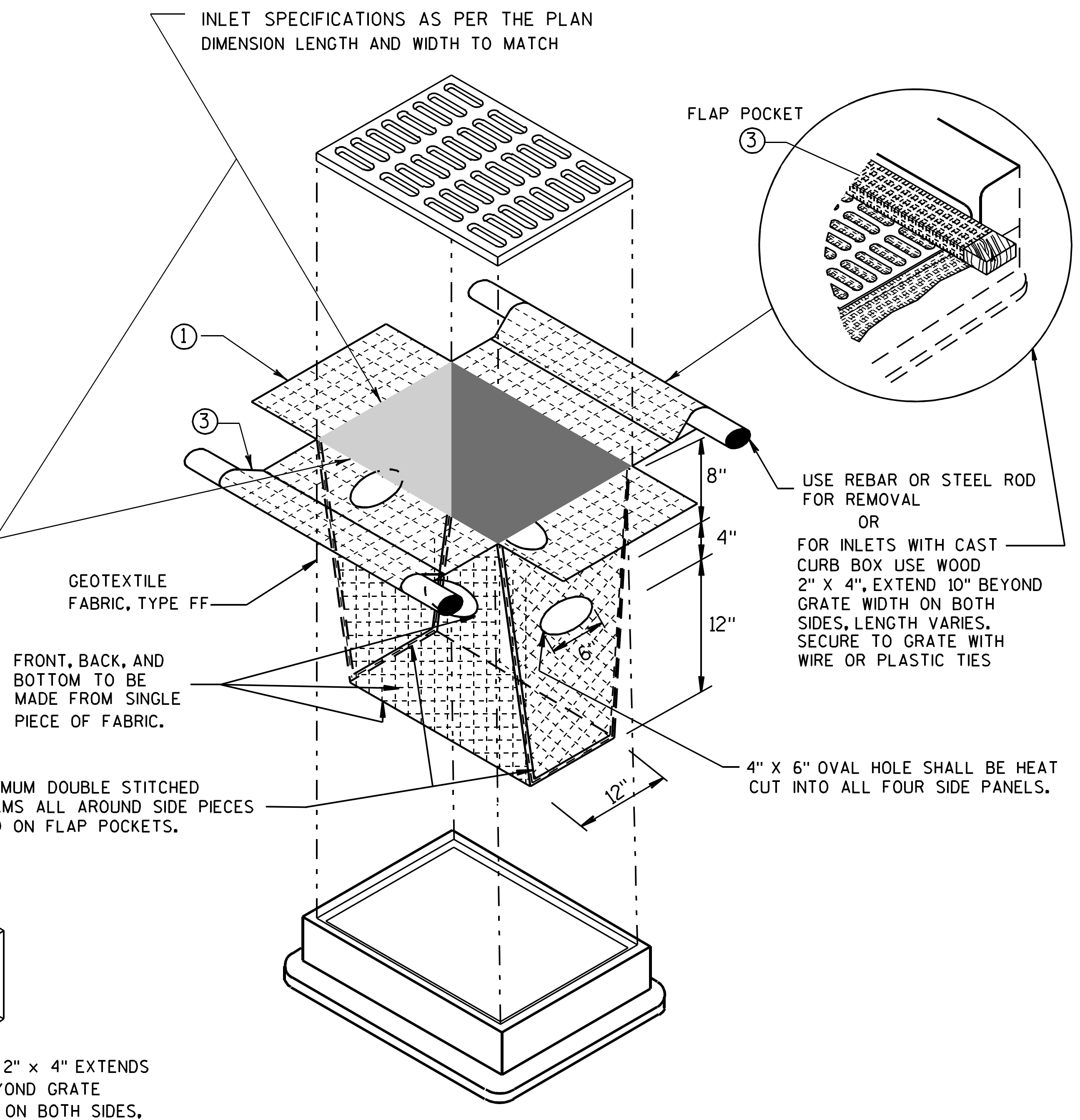


INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(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.

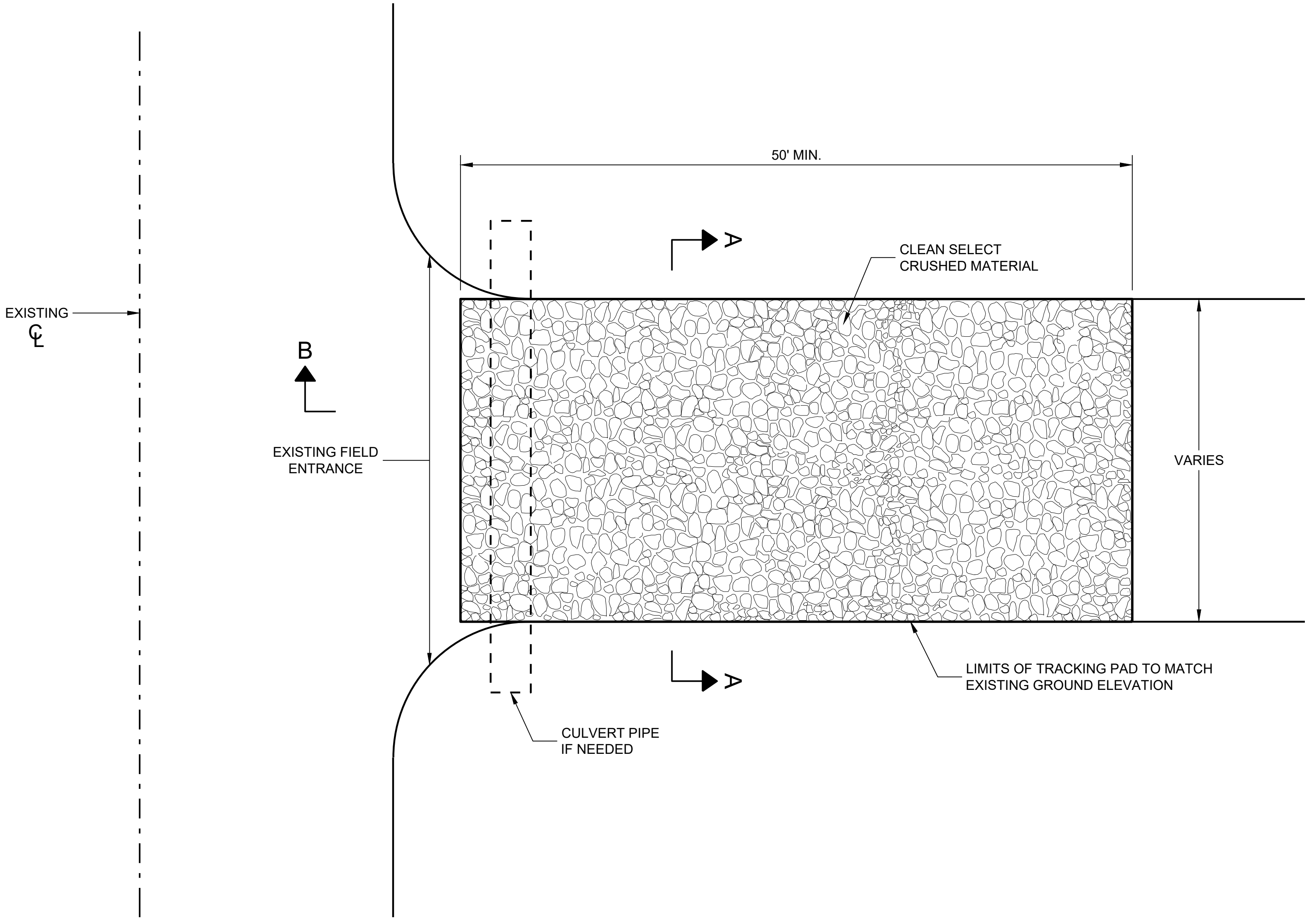
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

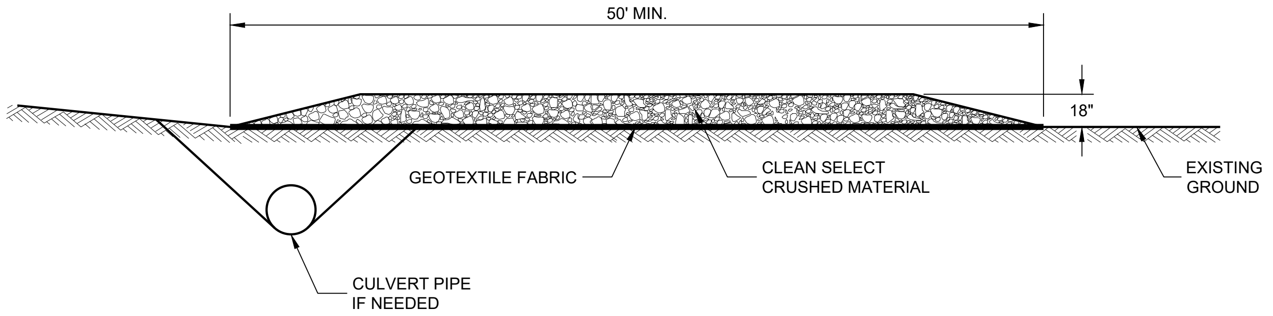
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 /S/ Beth Cann
DATE CHIEF ROADWAY DEVELOPM[illegible]NEER
FHWA





SECTION B - B

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

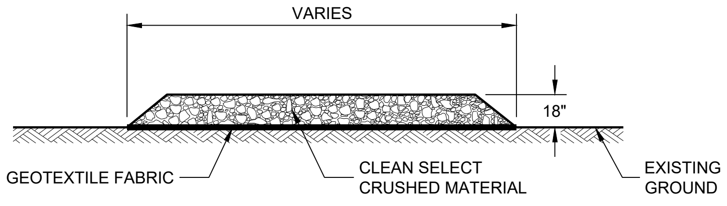
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.

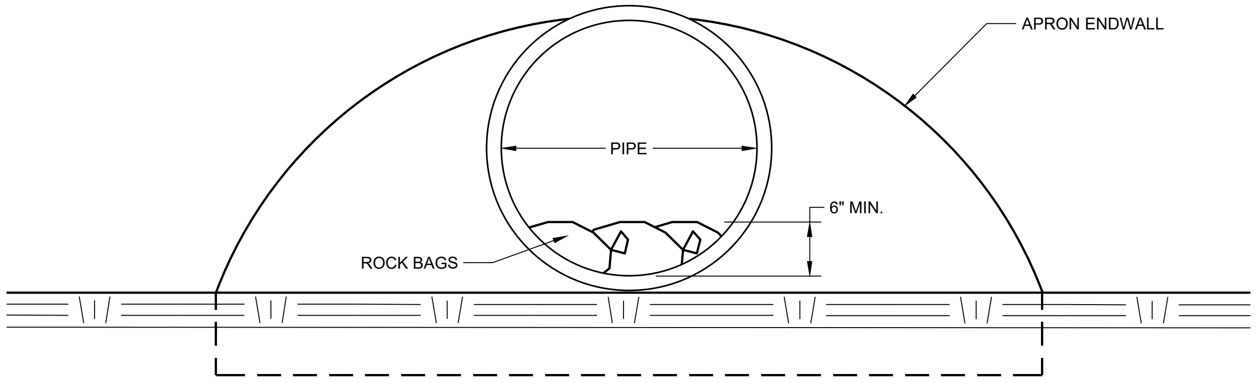


SECTION A - A

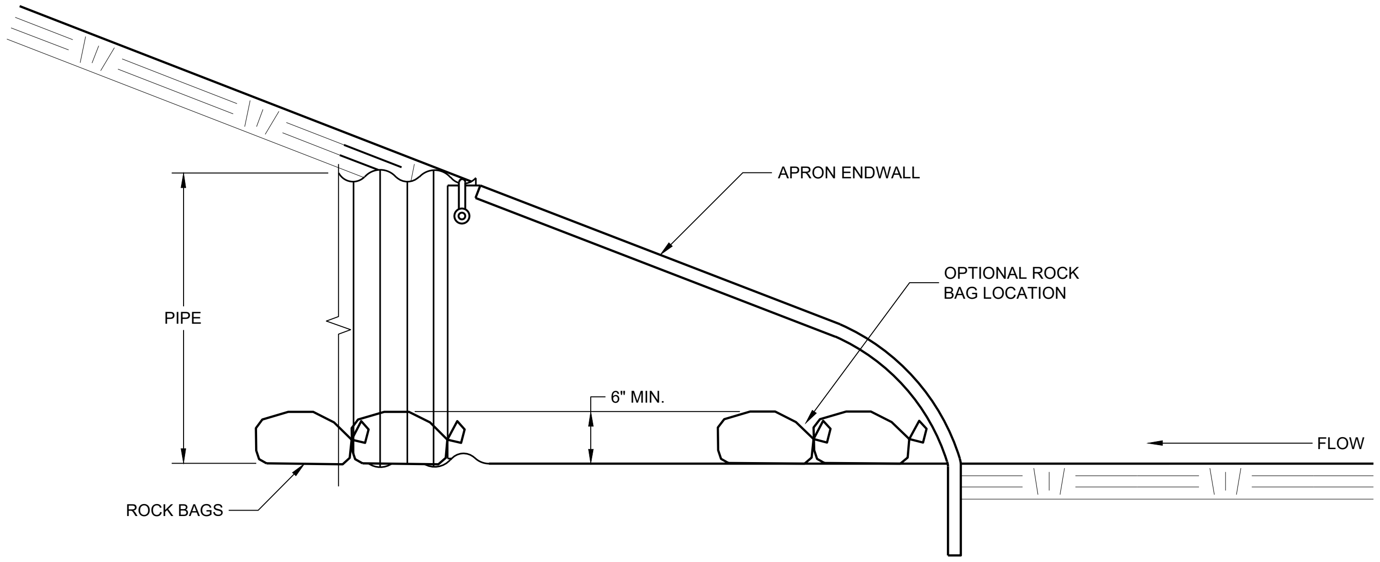
TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE
ENGINEER
FHWA



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Daniel Schave
EROSION CONTROL ENGI
FHWA

METAL APRON ENDWALLS

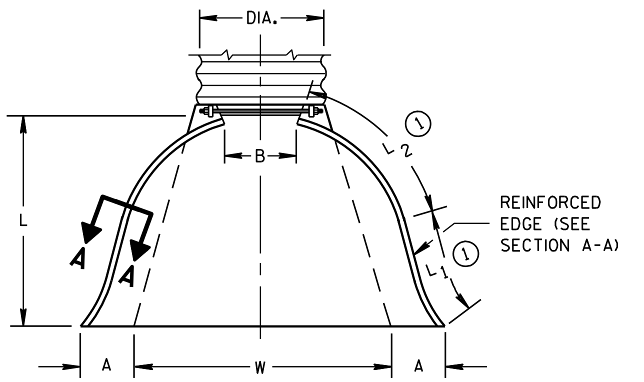
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17½	24	2½to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21¾	30	2½to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28¼	36	2½to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29⅝	42	2½to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37¼	48	2½to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52¼	60	2½to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59¾	72	2½to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75⅝	84	2½to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2¼to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85½	102	2¼to 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	1½to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1½to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1½to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1½to 1	3 Pc.

× EXCEPT CENTER PANEL
SEE GENERAL NOTES

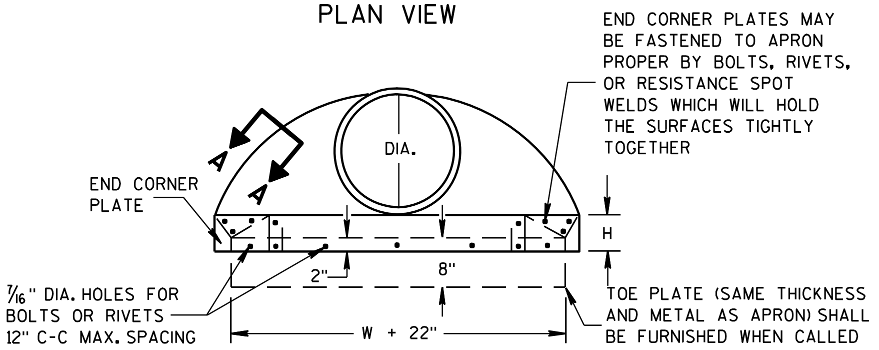
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48⅞	72⅞	24	2	3 to 1
15	2¼	6	27	46	73	30	2¼	3 to 1
18	2½	9	27	46	73	36	2½	3 to 1
21	2¾	9	36	37½	73½	42	2¾	3 to 1
24	3	9½	43½	30	73½	48	3	3 to 1
27	3¼	10½	49½	24	73½	54	3¼	3 to 1
30	3½	12	54	19¾	73½	60	3½	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	4½	21	63	35	98	78	4½	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5½	27	65	* ** 33¼-35	* ** 98¼- 100	90	5½	2⅖ to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	6½	* ** 24-30	* ** 72-78	* ** 21-27	99	102	5½	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	7½	* ** 24-36	78	21	99	114	6½	2 to 1
84	8	36	90½	21	111½	120	6½	1½to 1
90	8½	41	87½	24	111½	132	6½	1½to 1

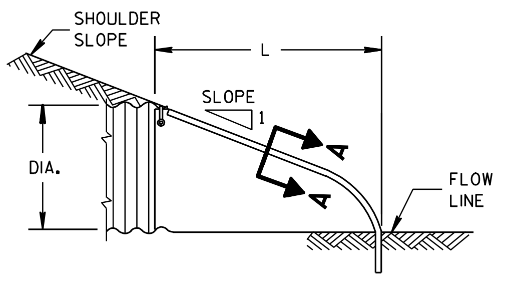
*MINIMUM
**MAXIMUM



PLAN VIEW

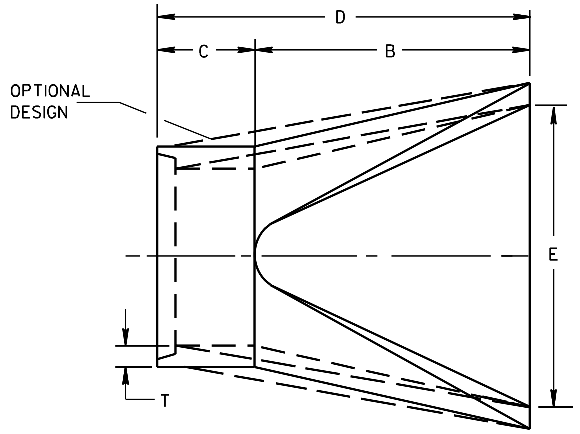


END VIEW

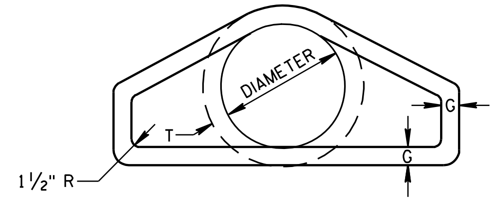


SIDE ELEVATION

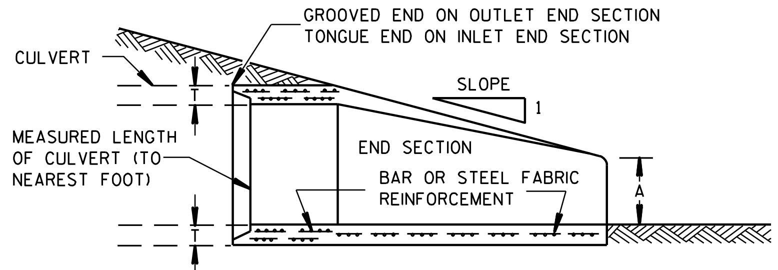
METAL ENDWALLS



PLAN

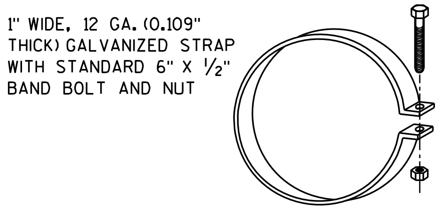


END VIEW



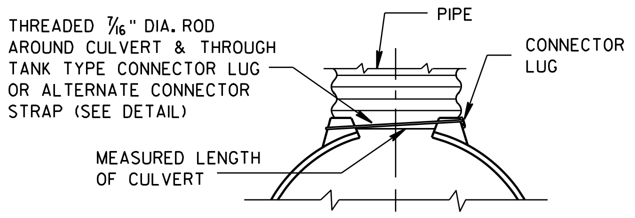
LONGITUDINAL SECTION

CONCRETE ENDWALLS

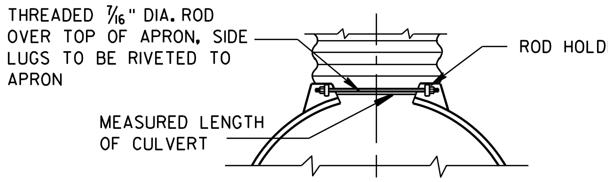


ALTERNATE FOR TYPE 1 CONNECTION

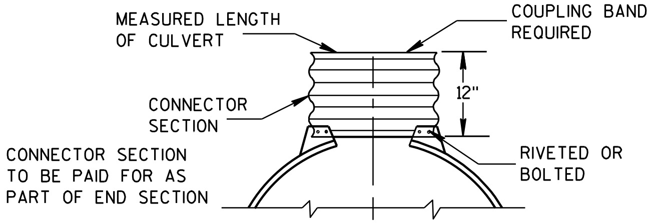
END SECTION CONNECTOR STRAP



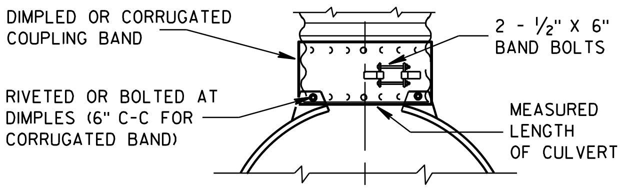
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

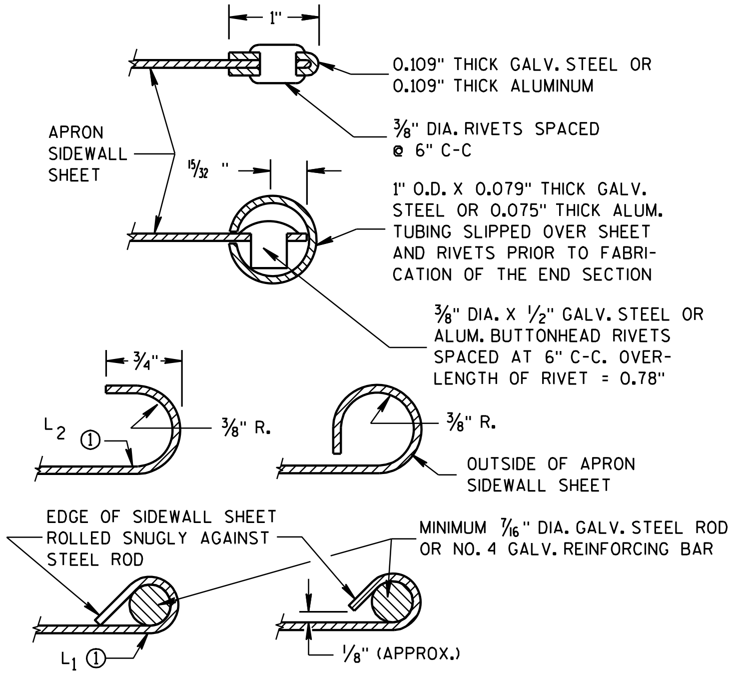
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

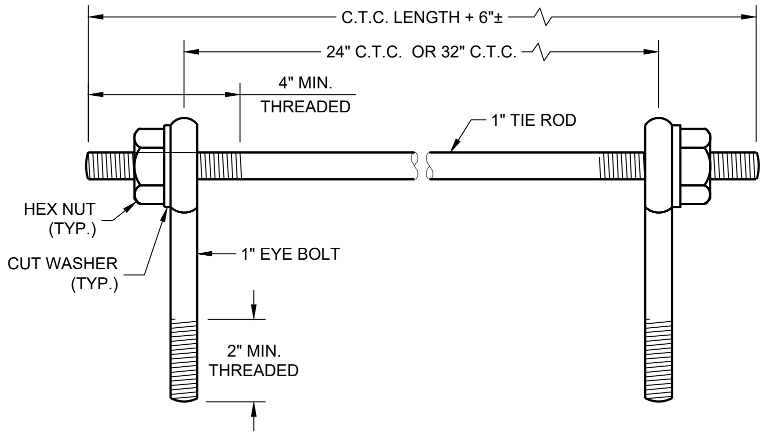
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

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

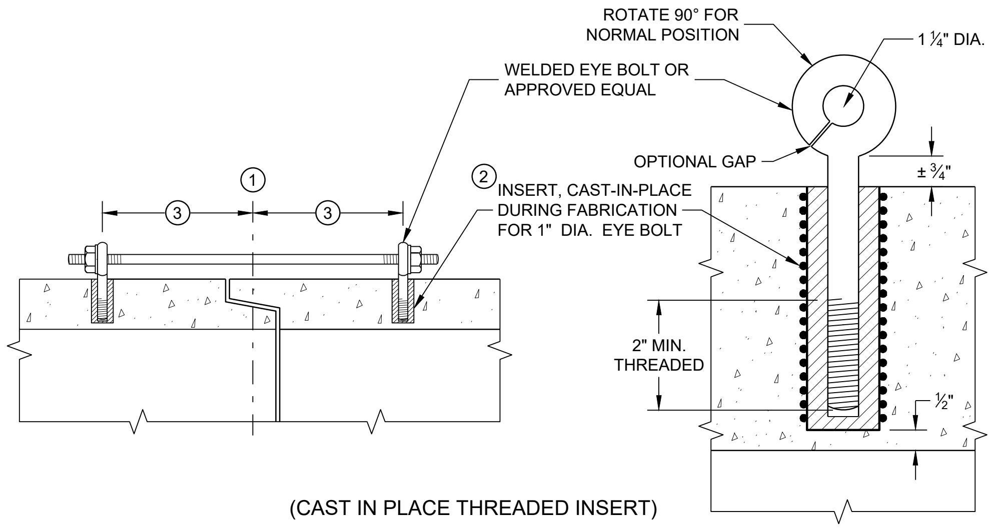
APRON ENDWALLS FOR
CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

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

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

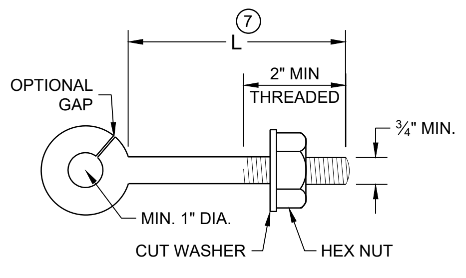
③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

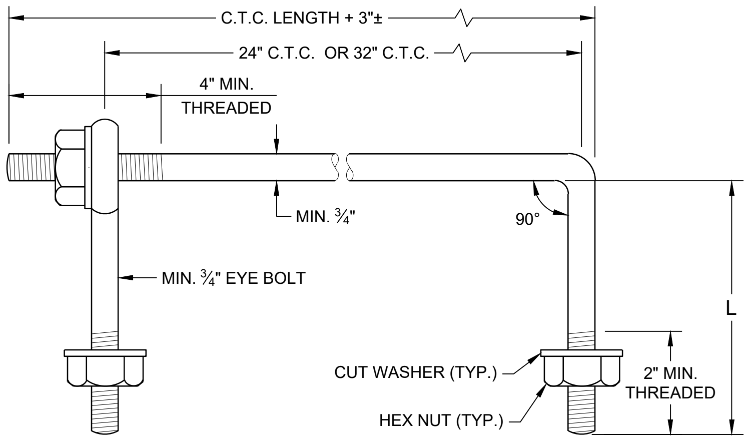
⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

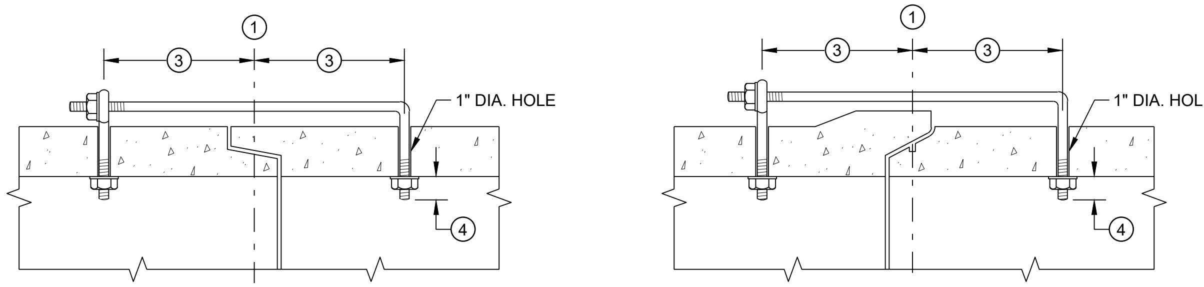


EYE BOLT⑦

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



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)

(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

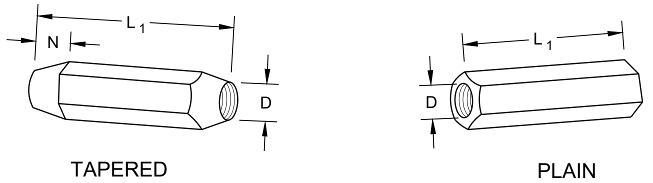
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

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

DIMENSIONS SHOWN ARE IN INCHES

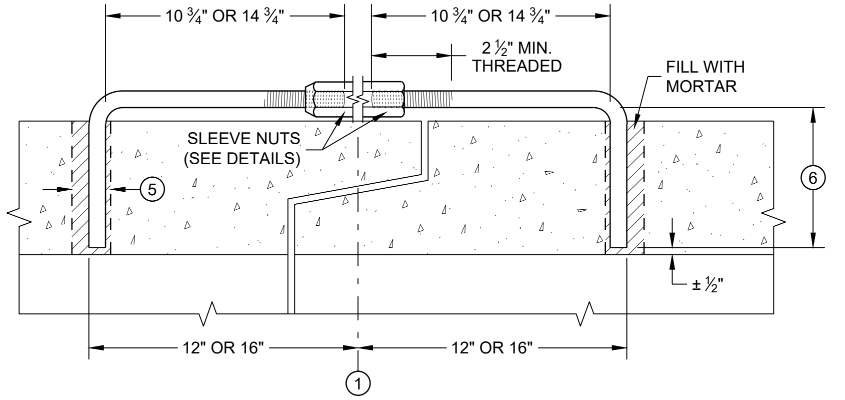


TAPERED

PLAIN

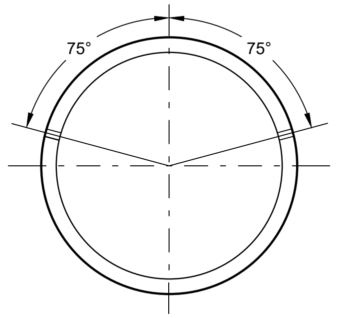
RIGHT AND LEFT THREADS

SLEEVE NUTS



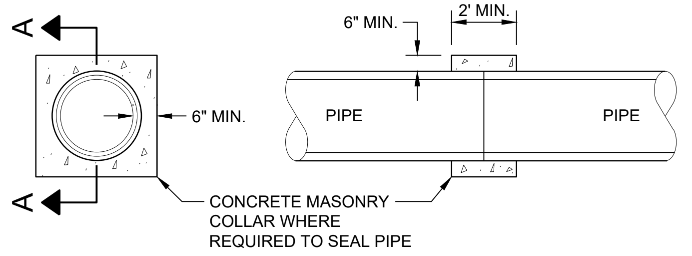
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



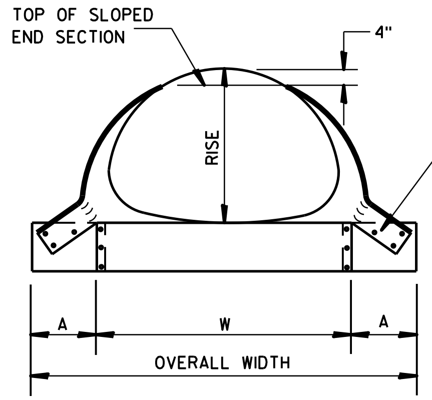
SECTION A - A

CONCRETE COLLAR DETAIL

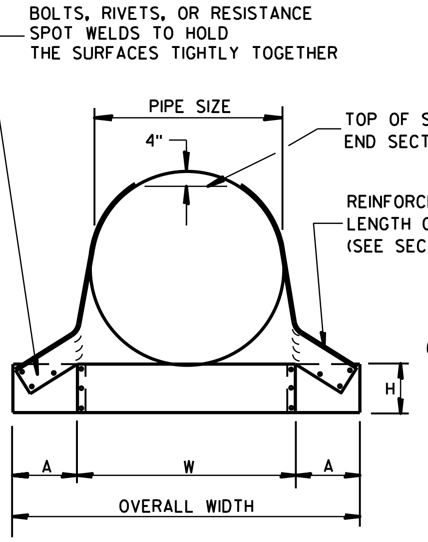
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

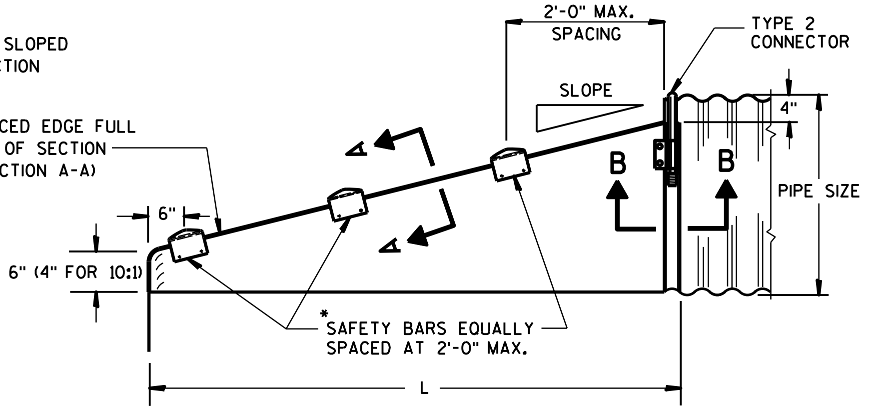
APPROVED
November 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
ENGINEER
FHWA



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

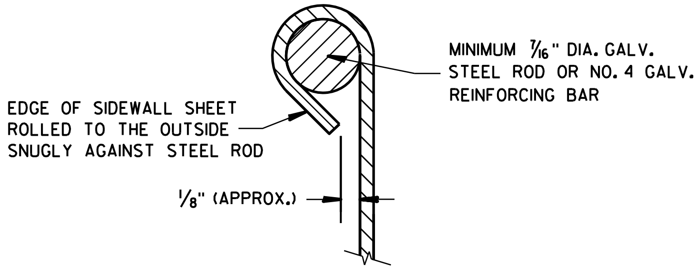
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

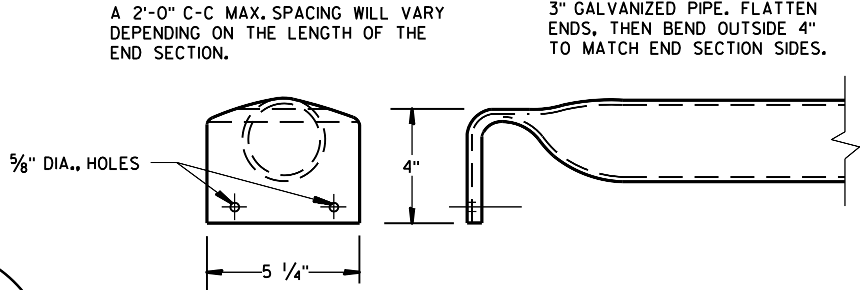
STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

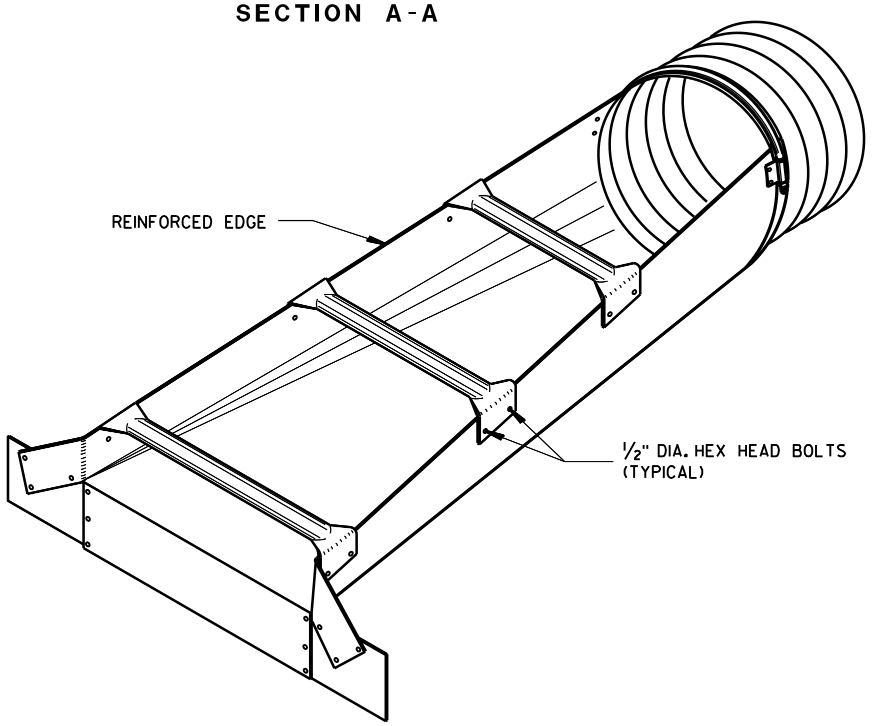


DETAIL OF SAFETY BAR

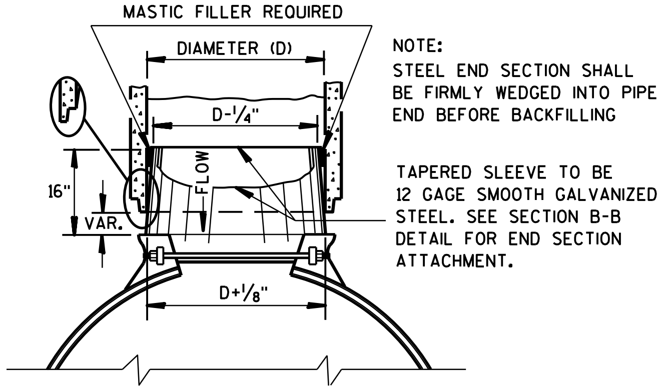
STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches) ①	DIMENSIONS (Inches)				L DIMENSIONS					
	SPAN	RISE		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



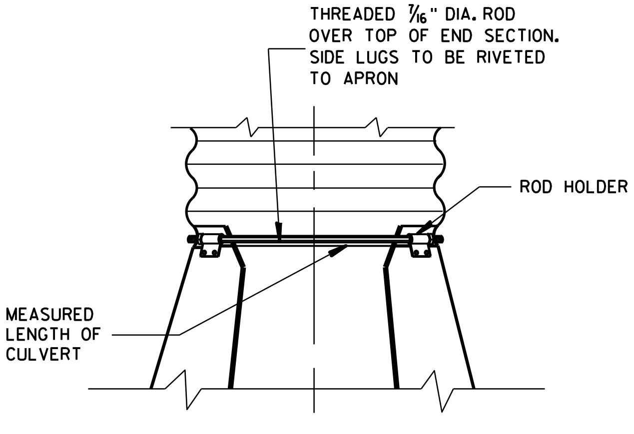
ISOMETRIC VIEW



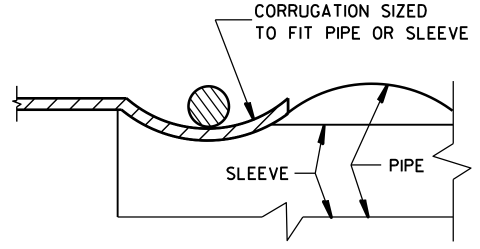
NOTE:
STEEL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING

TAPERED SLEEVE TO BE 12 GAGE SMOOTH GALVANIZED STEEL. SEE SECTION B-B DETAIL FOR END SECTION ATTACHMENT.

STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2 CONNECTION DETAIL

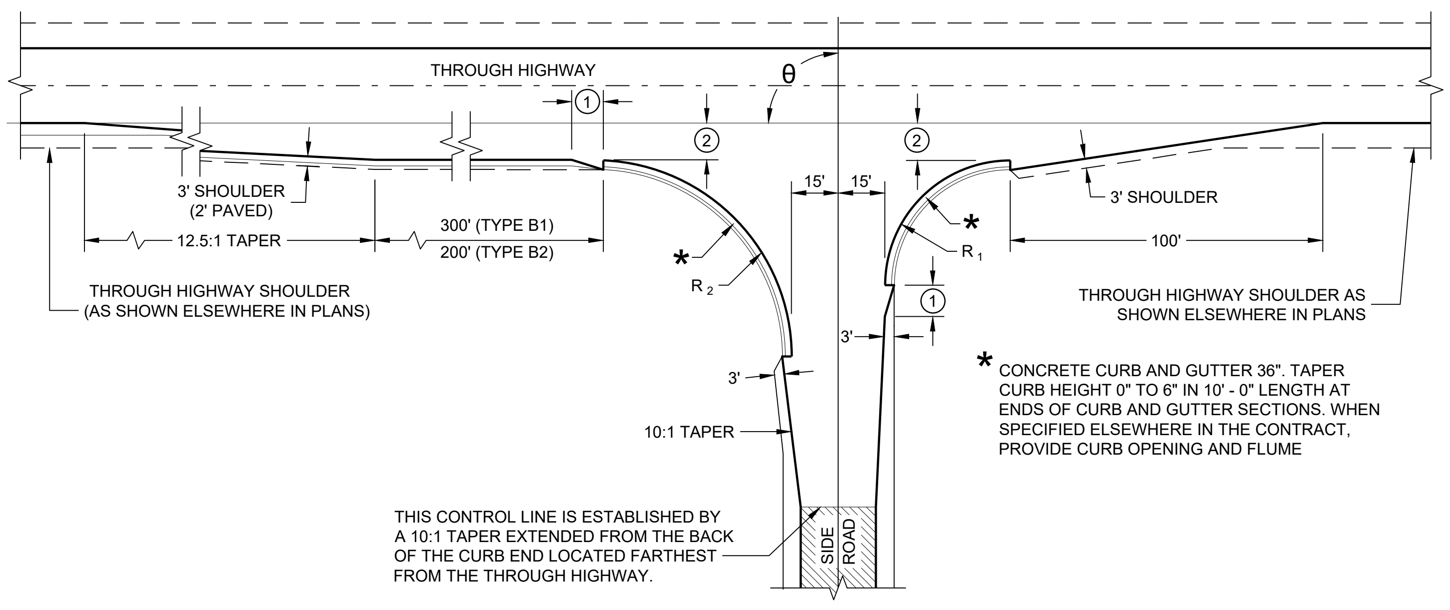


SECTION B-B

STEEL APRON ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH
SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER NT
FHWA



* CONCRETE CURB AND GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10' - 0" LENGTH AT ENDS OF CURB AND GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME

TYPE "B1" AND "B2"

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65 - 70	35	70
71 - 80	40	70
81 - 90	40	60
91 - 100	50	55
101 - 110	60	45

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

<u>SIDE ROAD SURFACING NOTE</u>

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

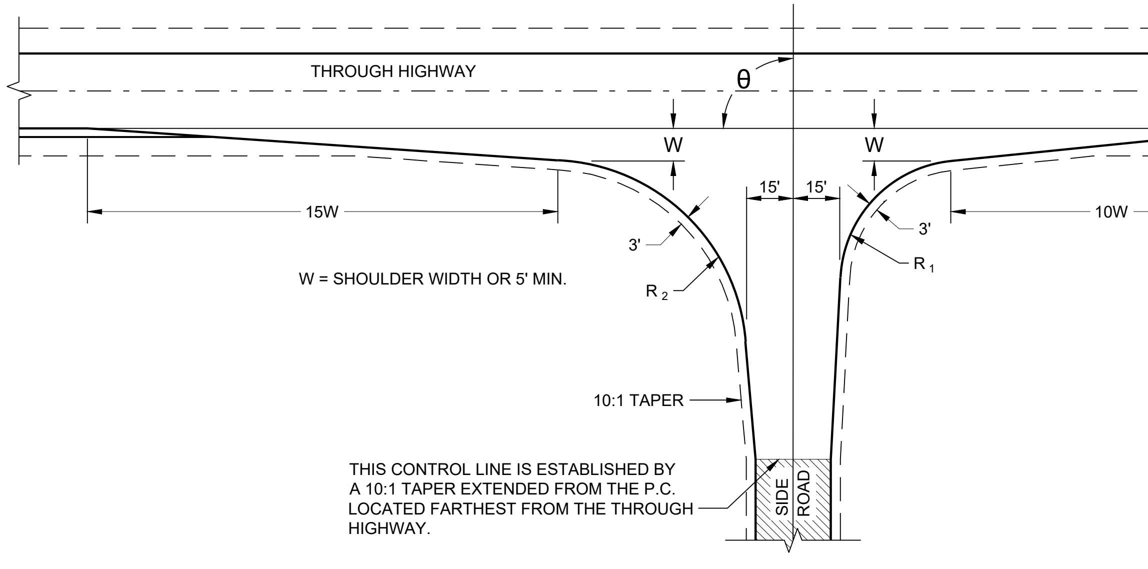
① 10-FT TYPICAL.

② 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

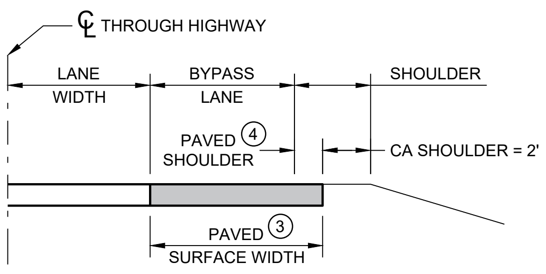
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

③ BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
- ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH
- PC CONCRETE = 13-FT PLUS PAVED SHOULDER WIDTH

④ BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.

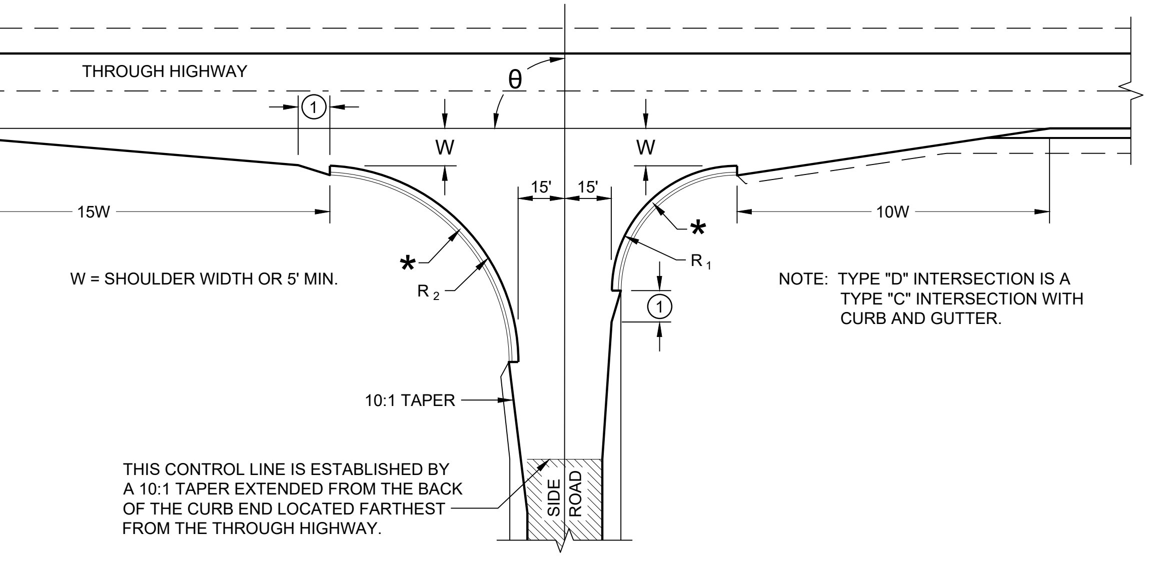


TYPE "C"



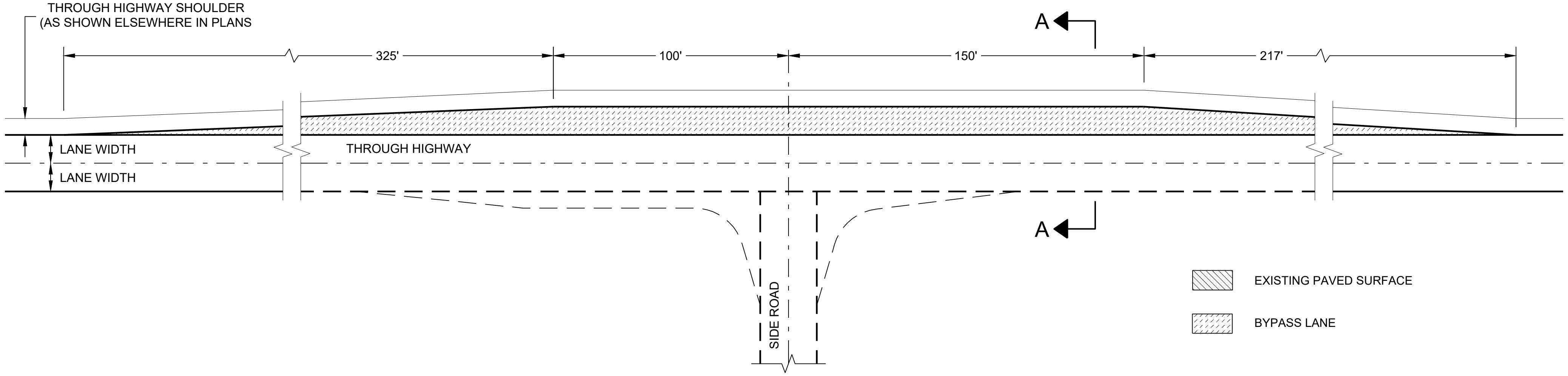
SECTION A - A

(SHOWING BYPASS LANE AND SHOULDER)



NOTE: TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB AND GUTTER.

TYPE "D"



TEE INTERSECTION BYPASS LANE DETAIL

AT GRADE SIDE ROAD INTERSECTION TYPES "B1", "B2", "C", "D" AND TEE INTERSECTION BYPASS LANE

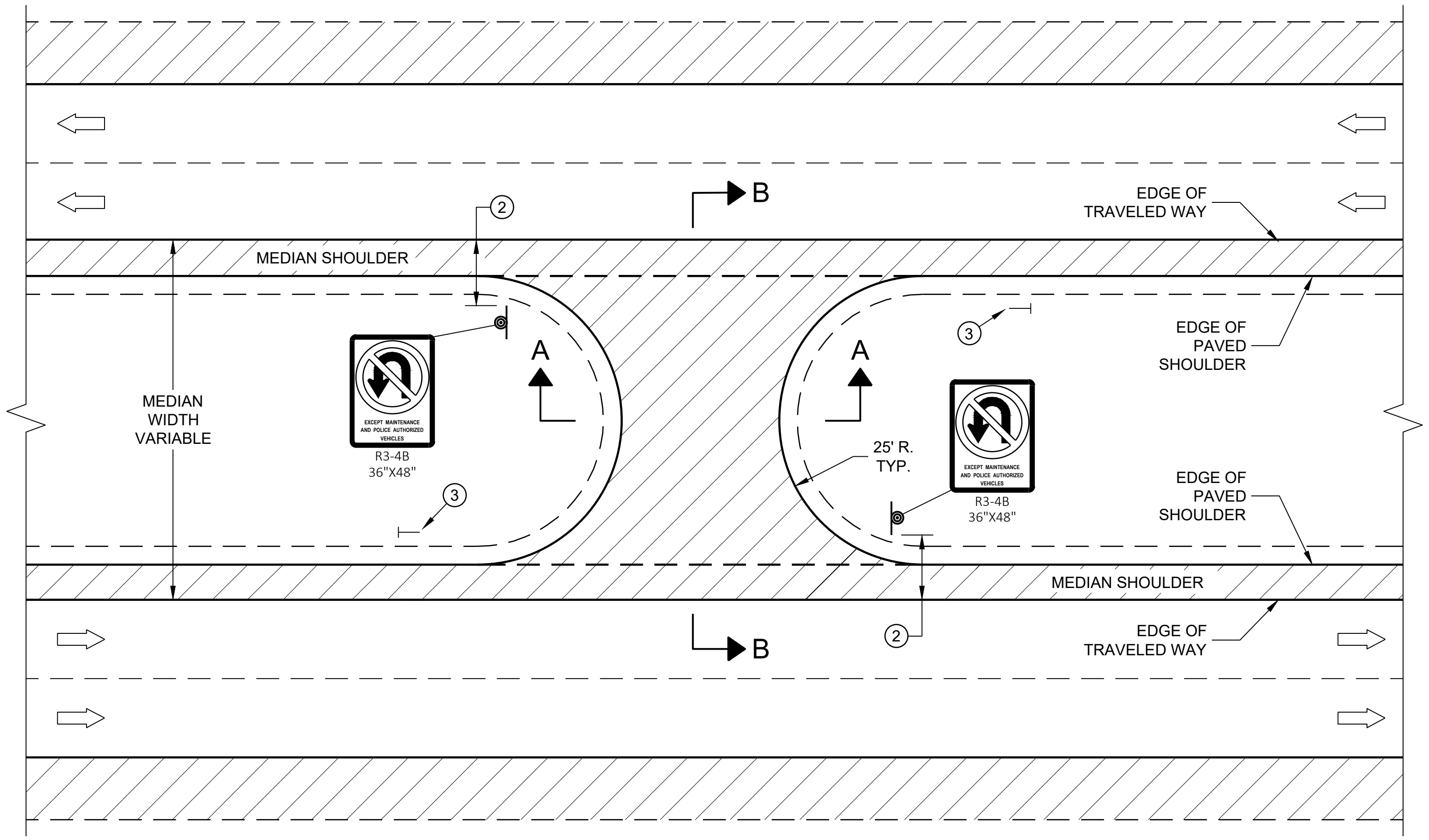
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

6

SDD 09A01 - 14a

SDD 09A01 - 14a



PLAN VIEW

GENERAL NOTES

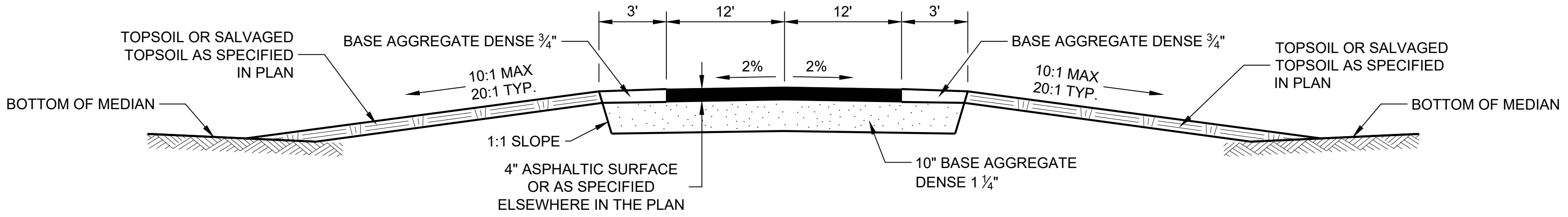
① ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.

② SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

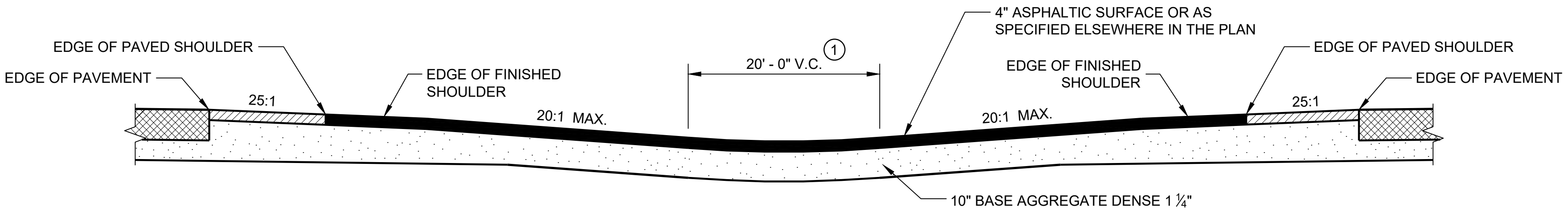
③ INSTALL DELINEATOR. SEE STANDARD DETAIL DRAWING 15A4.

LEGEND

⊚	SIGN ON PERMANENT SUPPORT
⊢	DELINEATOR
⇨	DIRECTION OF TRAFFIC



SECTION A-A



SECTION B-B

MAINTENANCE CROSSOVER FOR FREEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

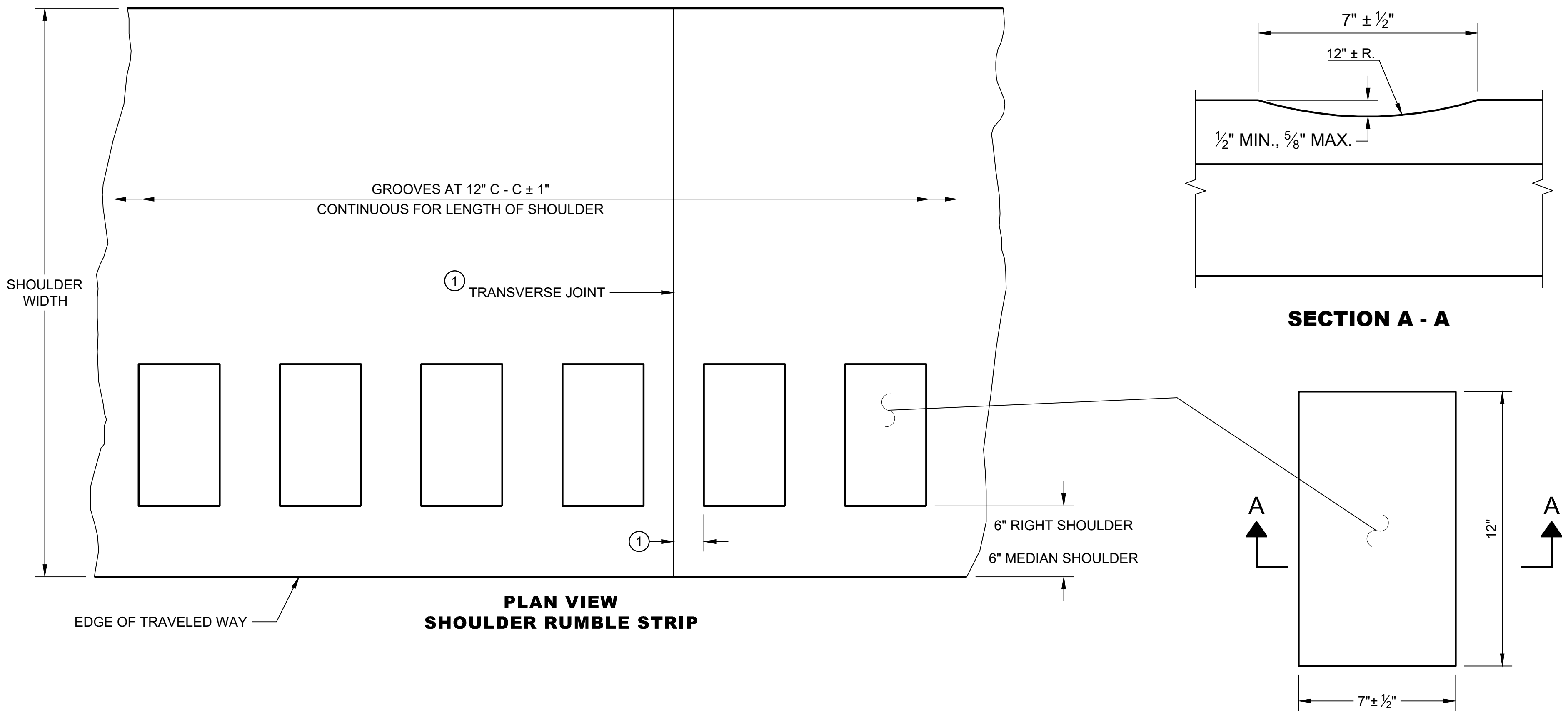
APPROVED
November 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

GENERAL NOTES

SDD 13A5, SHEET "b" SHOWS THE LOCATION OF THE RUMBLE STRIPS AT RAMP AND GORE LOCATIONS.

RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL AND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

① CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6 INCHES AWAY FROM TRANSVERSE JOINTS.

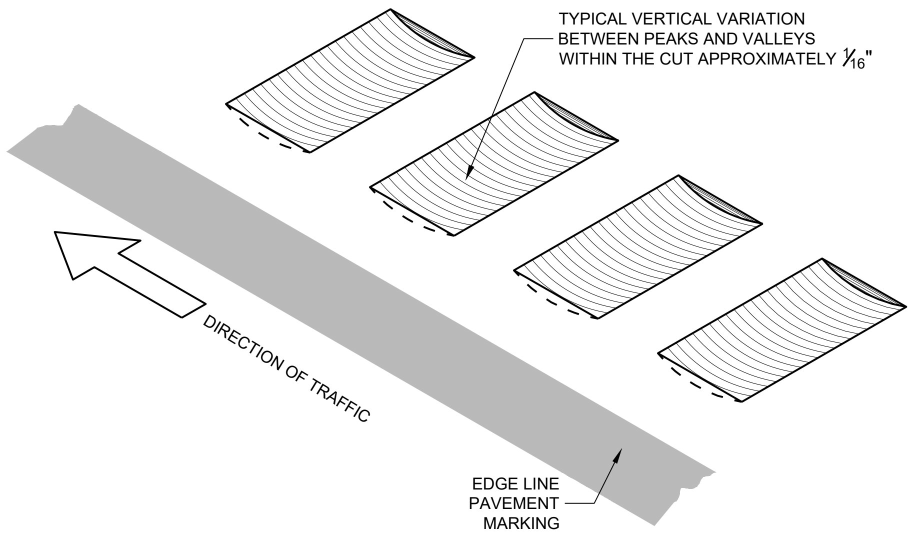


PLAN VIEW
SHOULDER RUMBLE STRIP

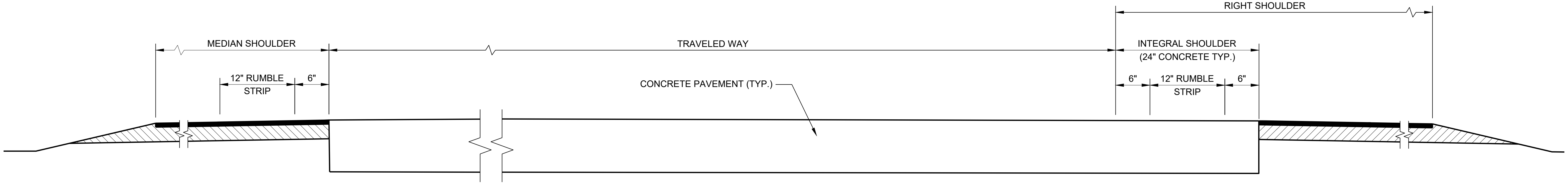
SECTION A - A

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR RUMBLE STRIP



ISOMETRIC

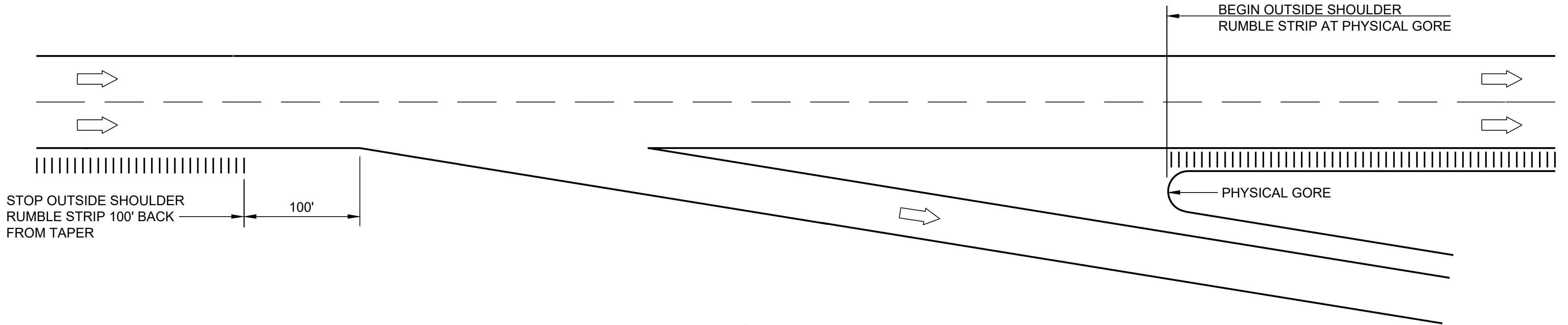


SECTION VIEW

TYPICAL SHOULDER RUMBLE STRIPS
(ONE ROADWAY IS SHOWN)

SHOULDER RUMBLE STRIPS,
DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA



TYPICAL EXIT RAMP

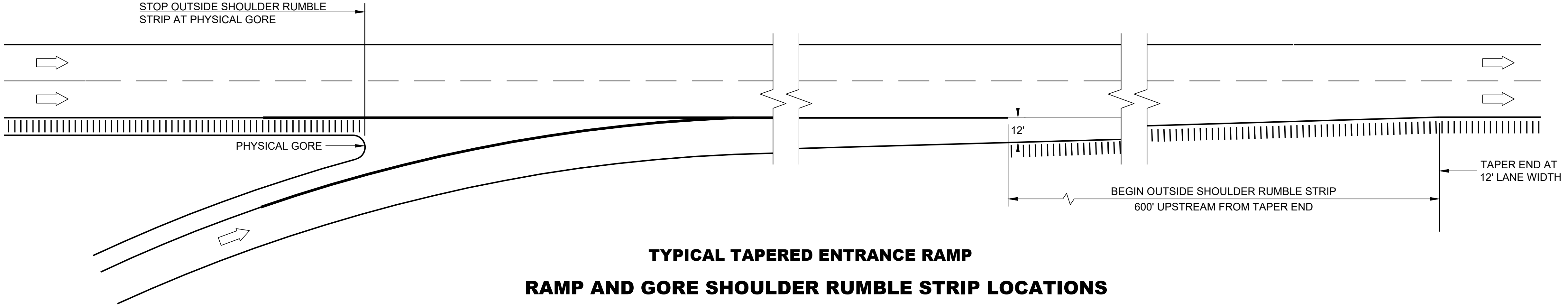
GENERAL NOTES

NO RUMBLE STRIP ON EXIT, DIRECTIONAL OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIALAND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

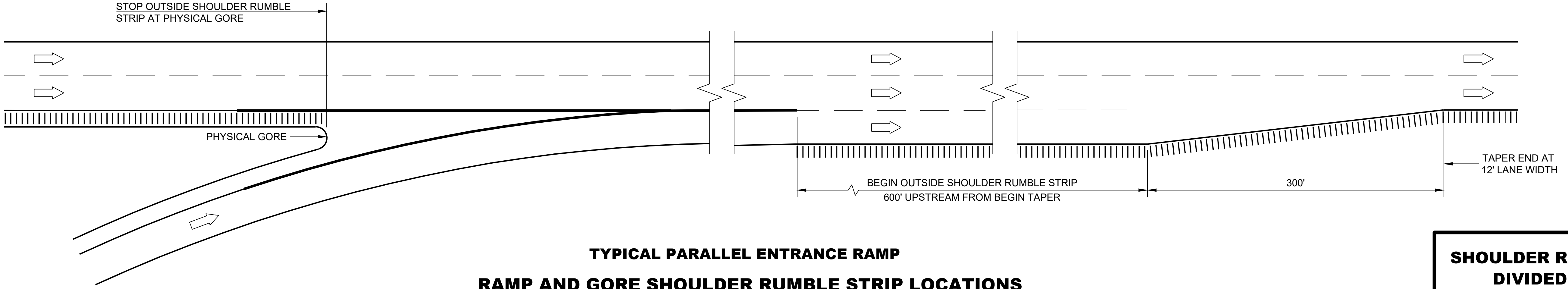
LEGEND

⇨ DIRECTION OF TRAFFIC



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS

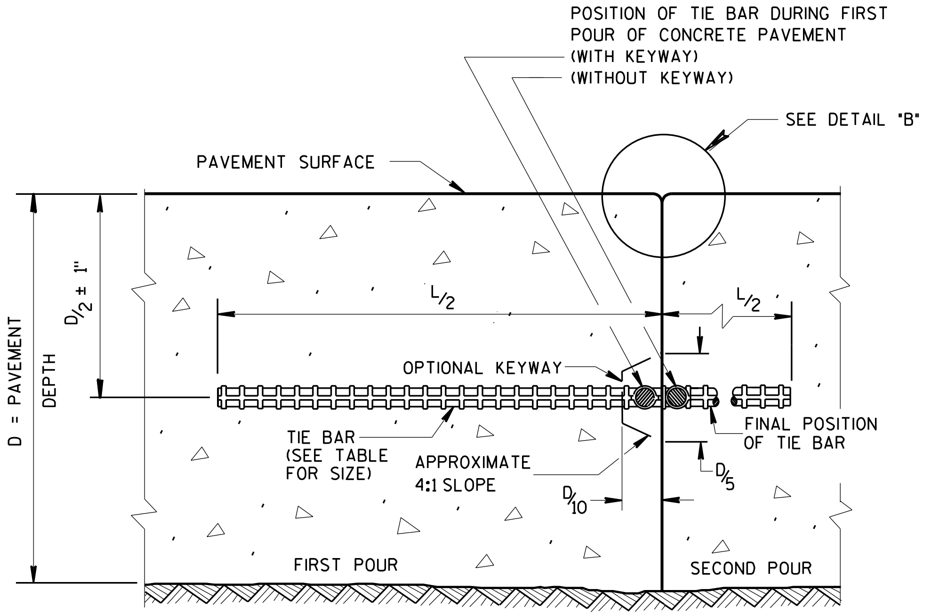
SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

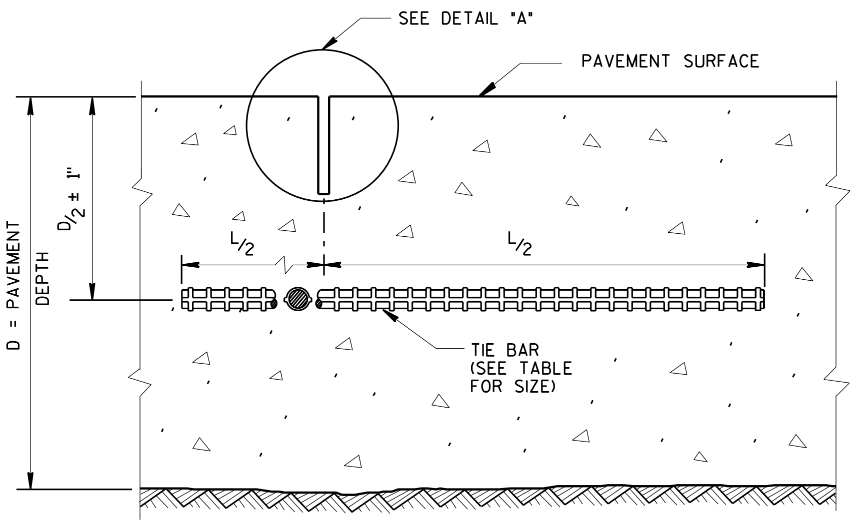
APPROVED
May 2023
DATE
/S/ Rodney Taylor
ROADWAY DESIGN STANDARDS UNIT SUPERVISOR
FHWA

SDD 13A05-06b

SDD 13A05-06b



CONSTRUCTION JOINT



SAWED JOINT

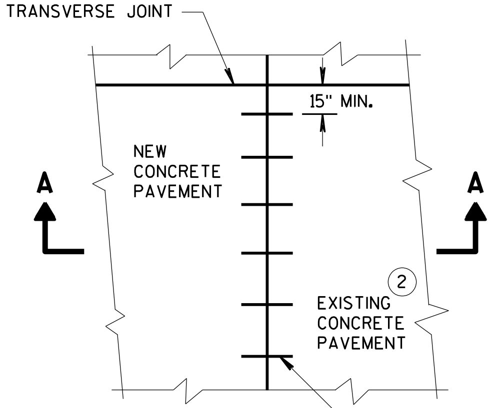
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

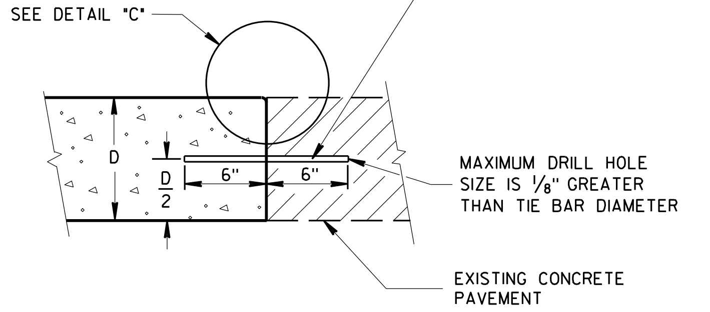
① ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

② PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



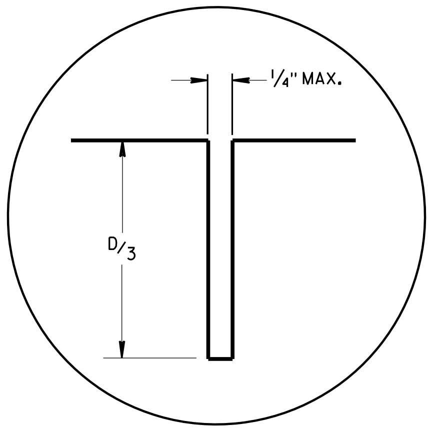
PLAN VIEW

NO. 6 TIE BARS SPACED 30" C-C, INSTALLED PERPENDICULAR TO THE LONGITUDINAL JOINT. ①

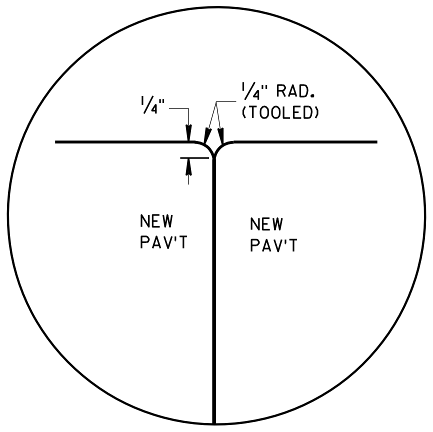


SECTION A-A

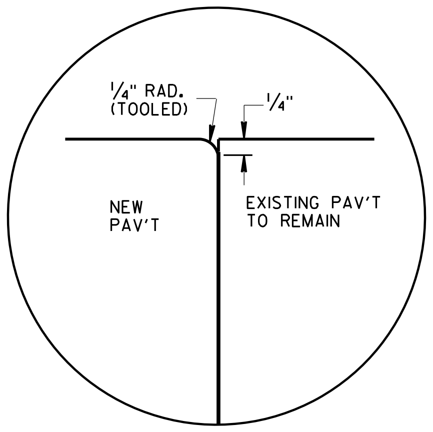
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



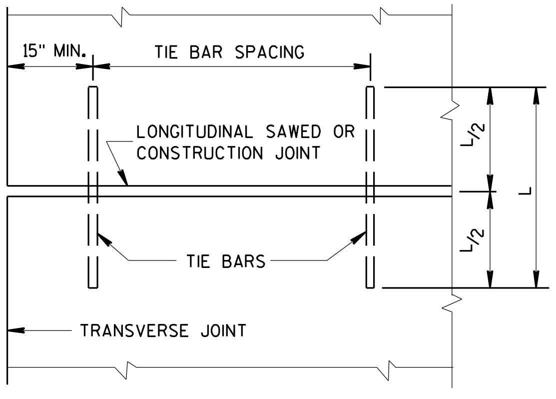
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



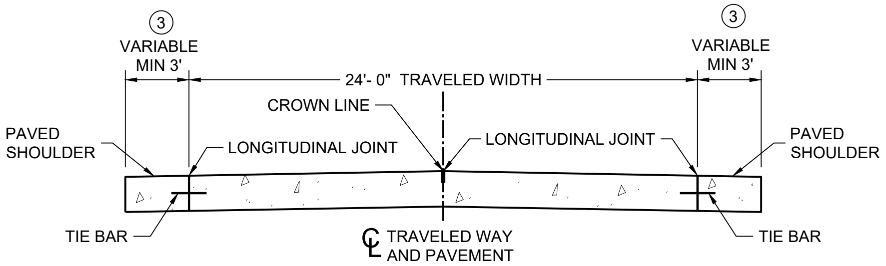
PLAN VIEW

SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

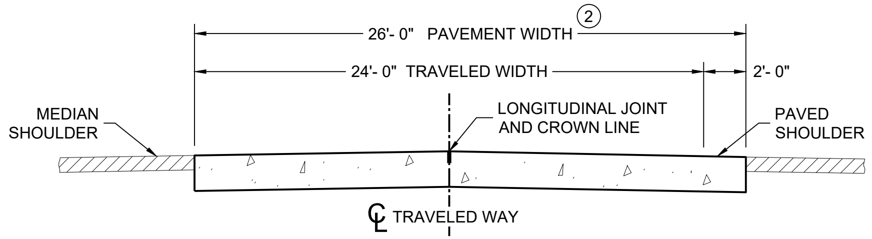
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 /S/ Peter Kem
DATE PAVEMENT SUPE
FHWA

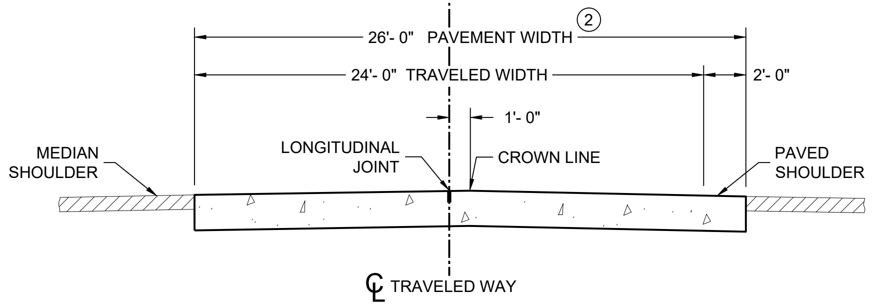


SECTION A - A

TWO-LANE TWO-WAY HIGHWAY ①



SECTION B - B



ALTERNATIVE SECTION B - B

DIVIDED HIGHWAY ①

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

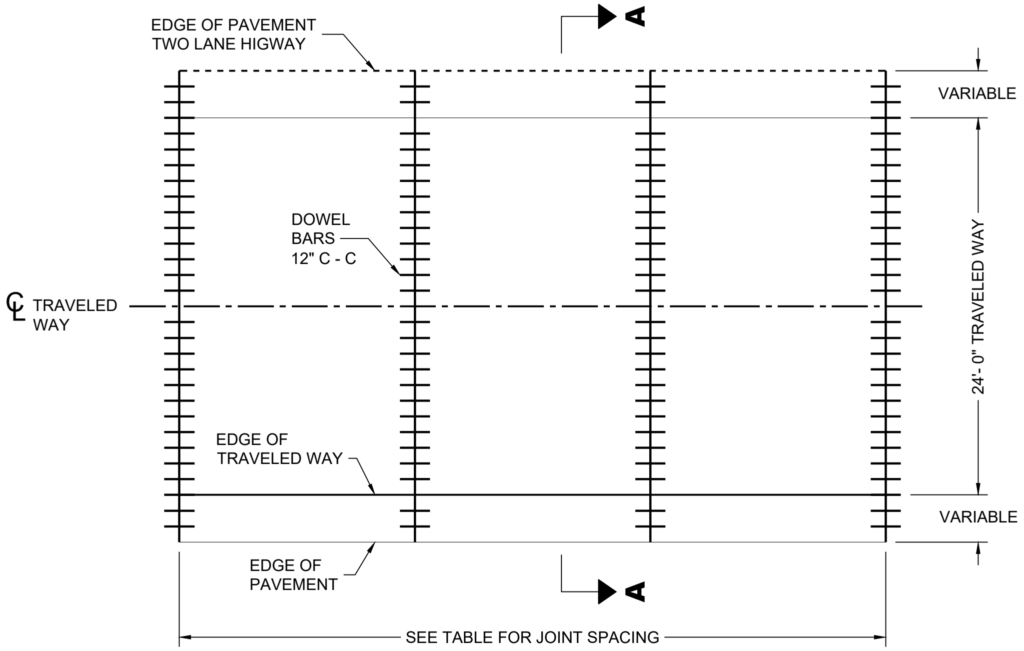
① REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

② MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED "PAVED SHOULDER" AS CONCRETE PAVEMENT.

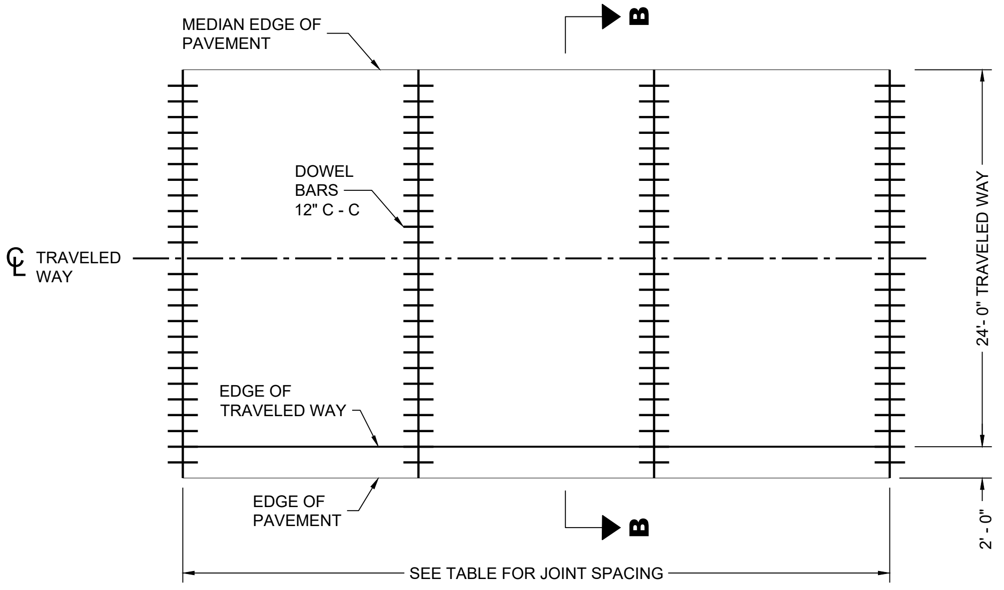
③ SHOULDER WIDTHS LESS THAN 3 FEET SHALL BE PAVED INTEGRAL TO THE MAINLINE CONCRETE PAVEMENT, SEE SECTION B-B.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

RURAL DOWELED
CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

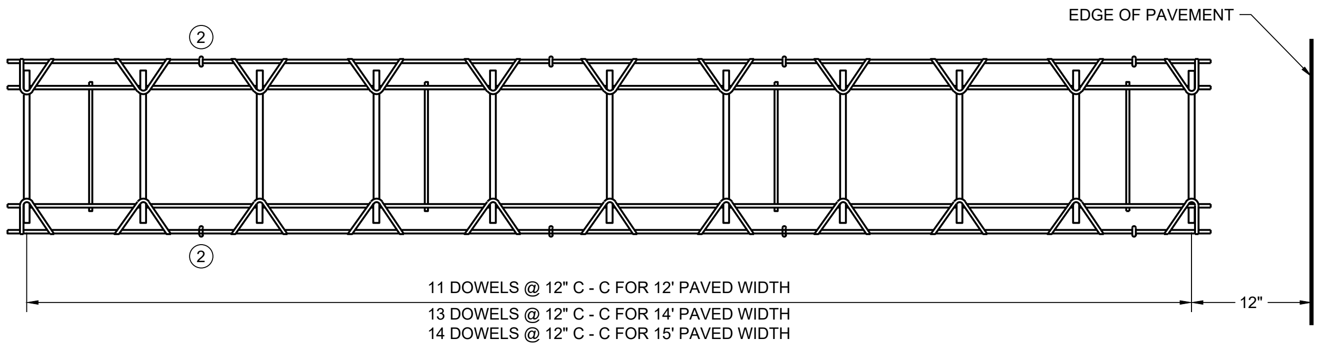
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

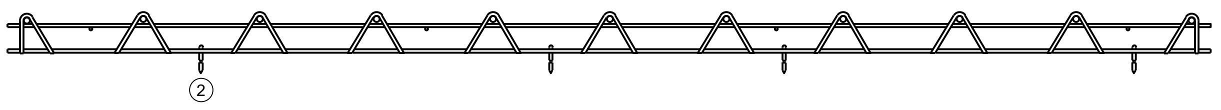
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



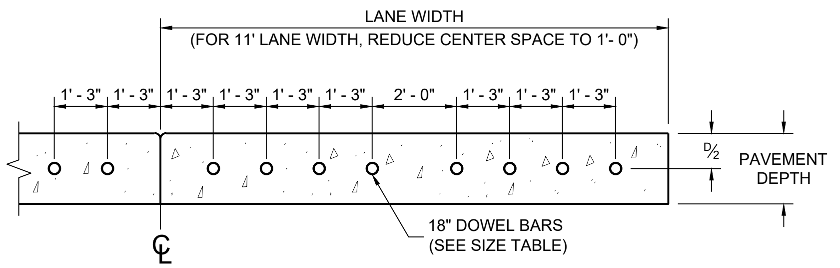
PLAN VIEW



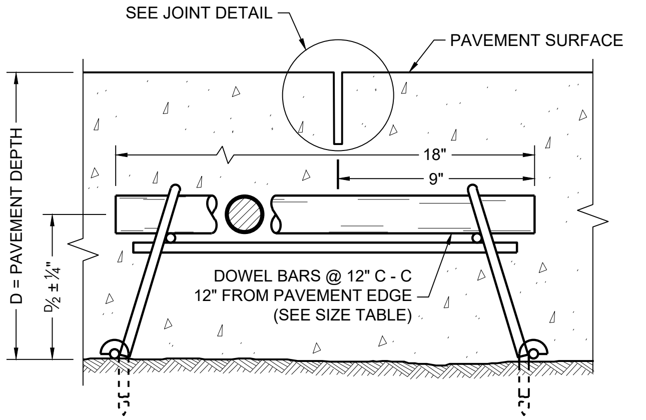
SIDE VIEW

(NORMAL TO CENTERLINE)

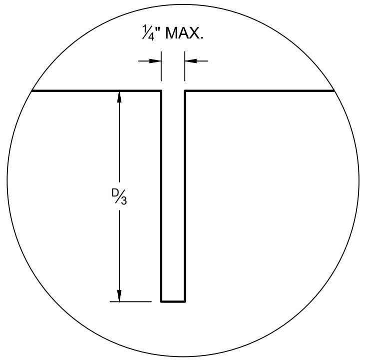
CONTRACTION JOINT DOWEL ASSEMBLY ①



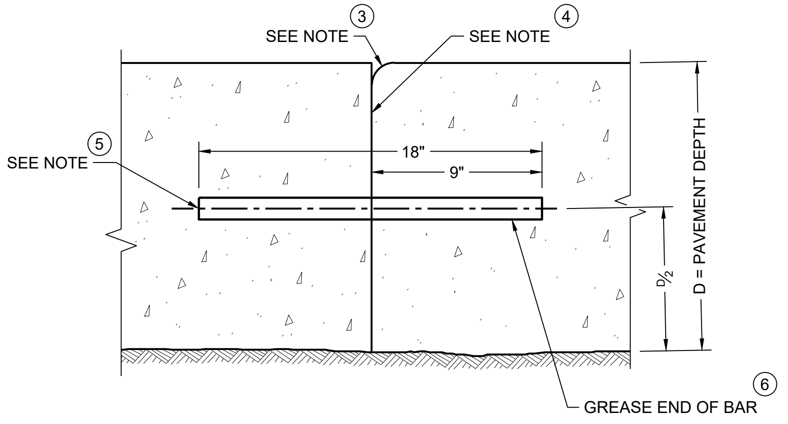
DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



DOWELED CONTRACTION JOINT



JOINT DETAIL



TRANSVERSE CONSTRUCTION JOINT

RURAL DOWELED
CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 /S/ Peter Kemp P.E.
DATE PAVEMENT SUPERVISOR
FHWA

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

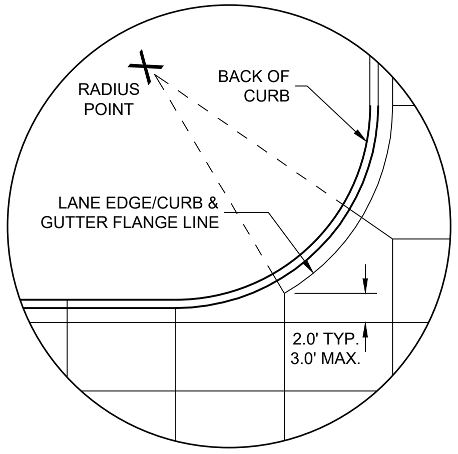
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

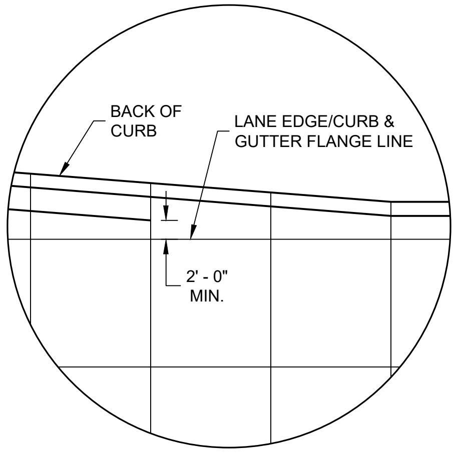
① PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

② CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.

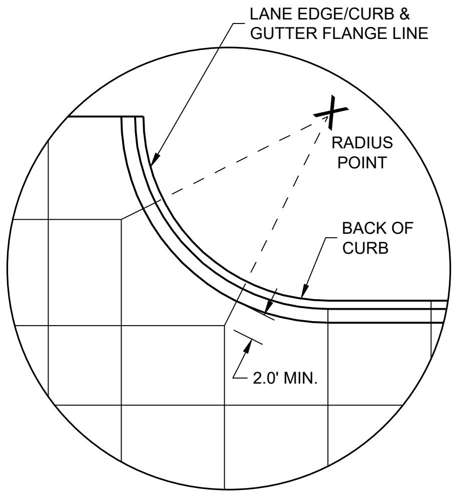
③ THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



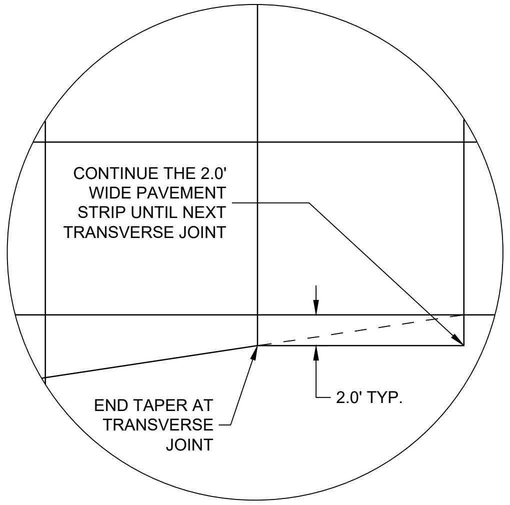
DETAIL "A"



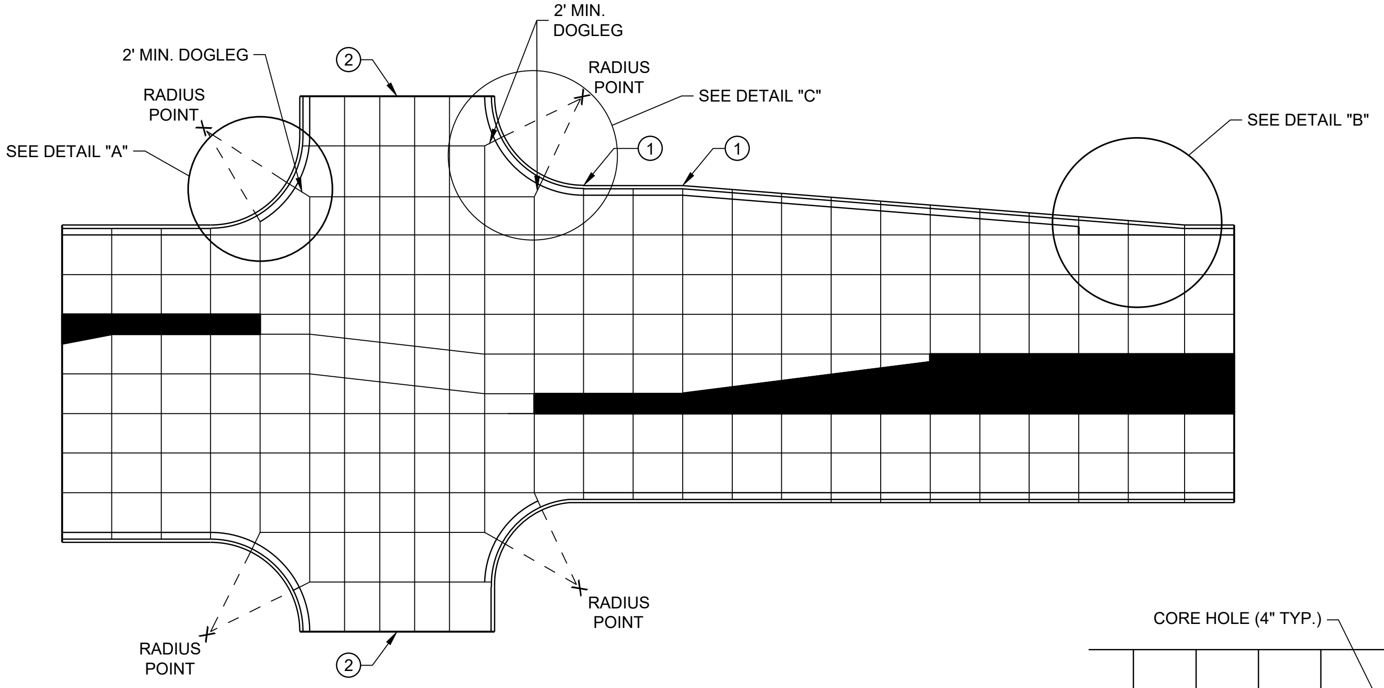
DETAIL "B"



DETAIL "C"



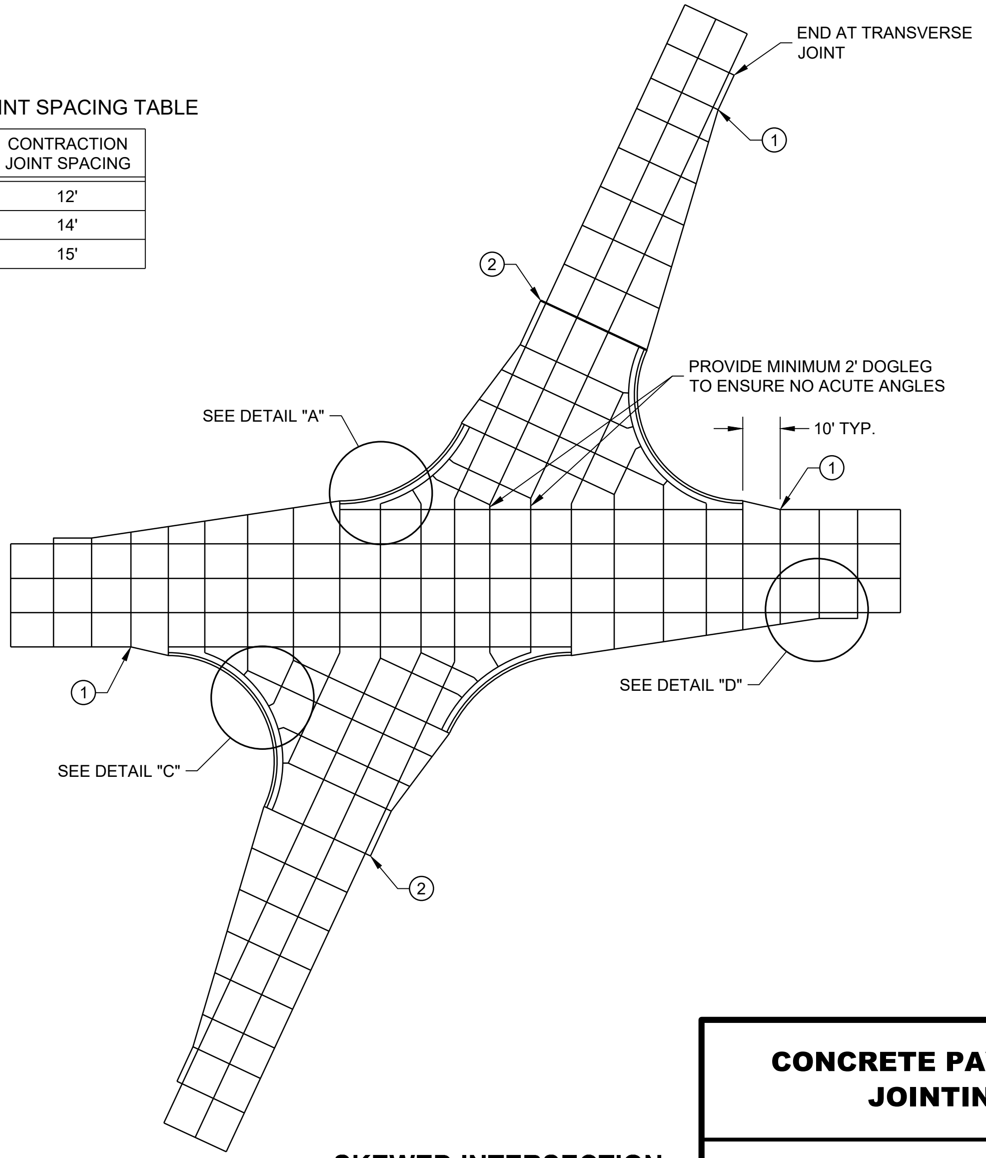
DETAIL "D"



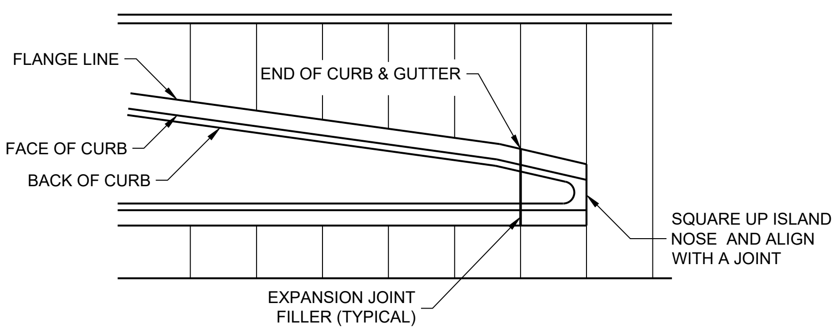
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

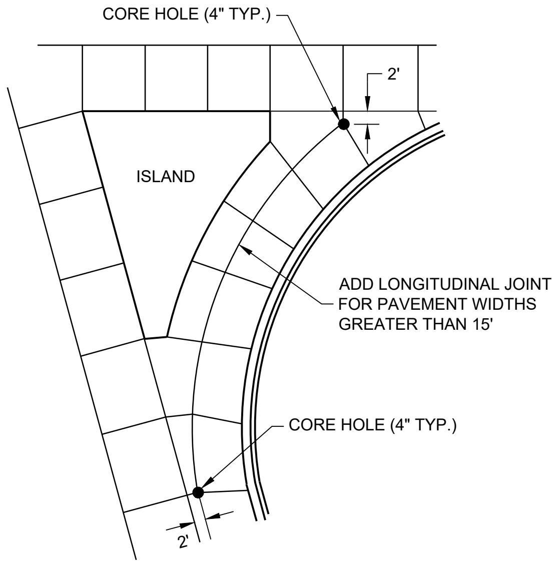
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

LEGEND

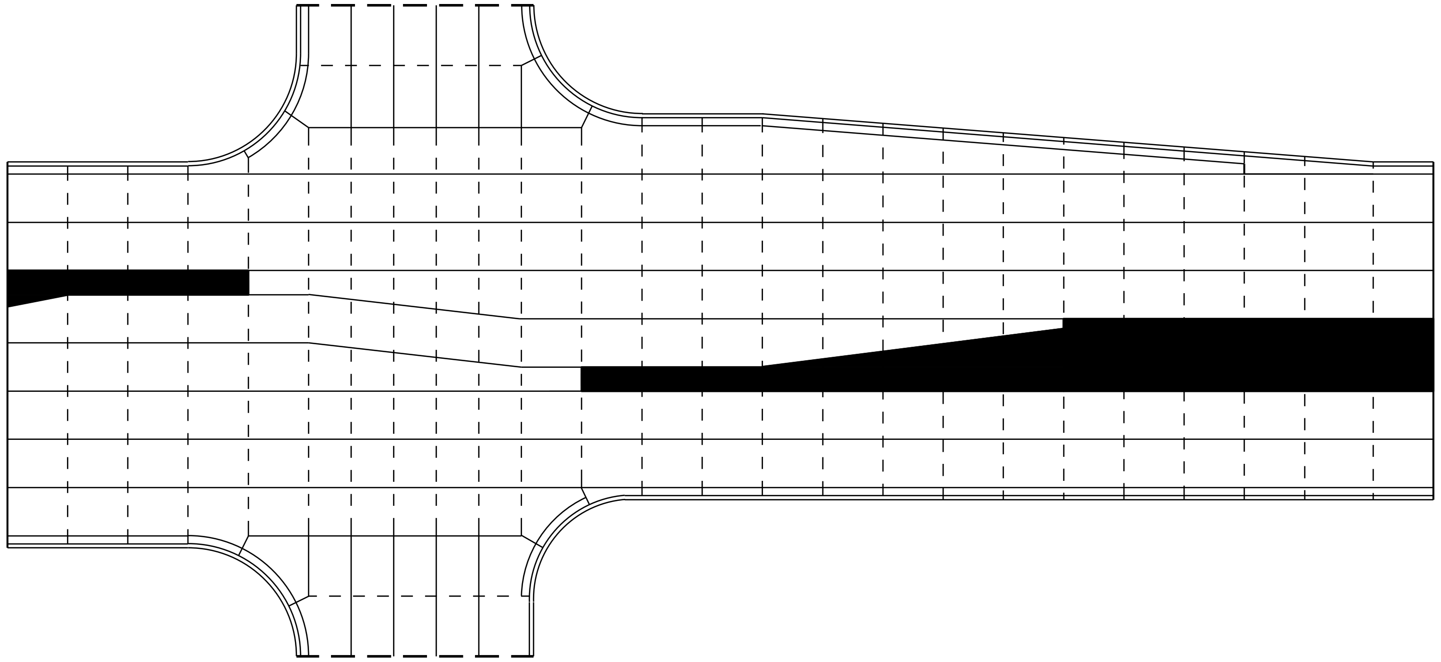
— — — — POTENTIAL DOWELED EXPANSION JOINT

- - - - - - - DOWELED JOINT

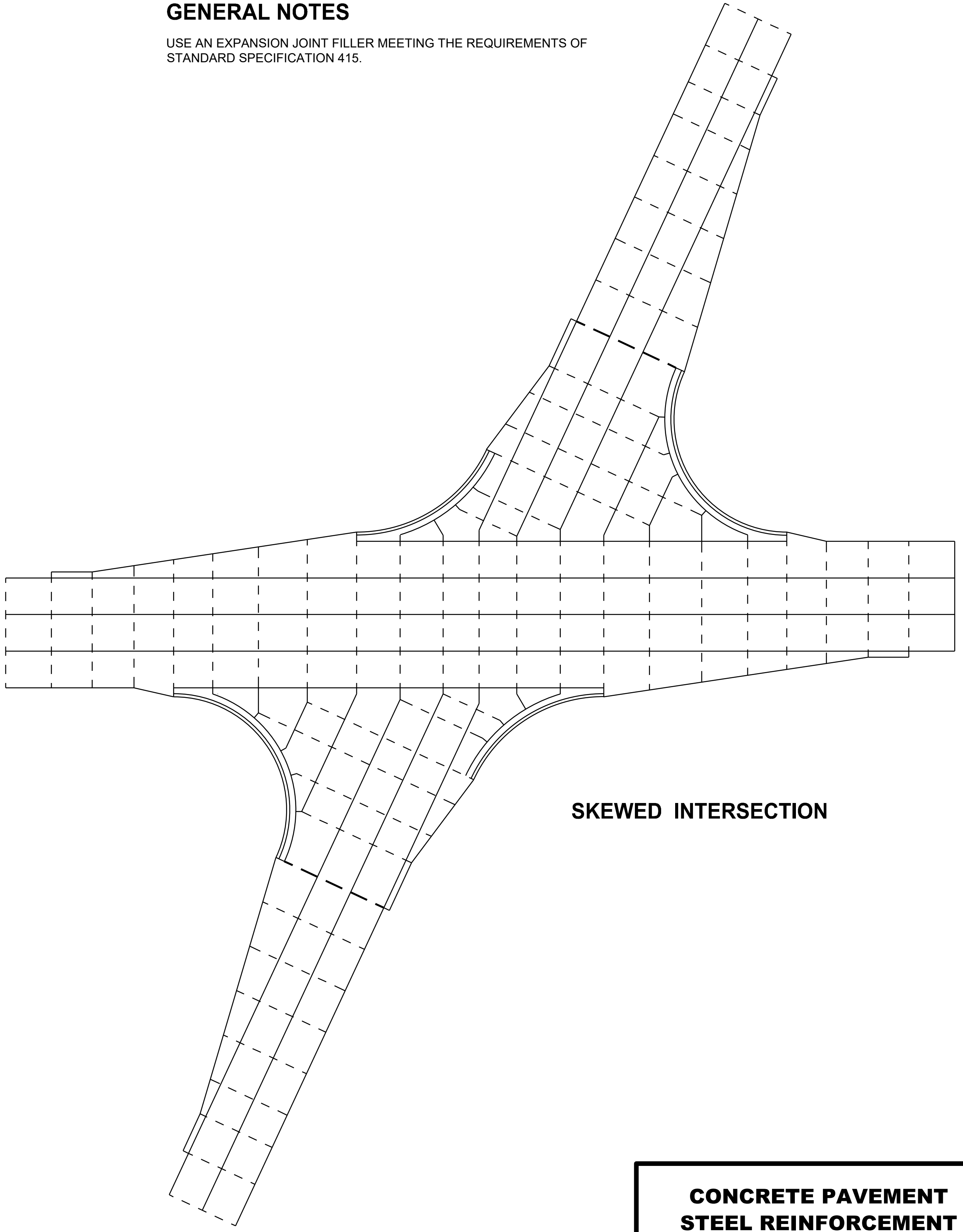
——————— TIED JOINT

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



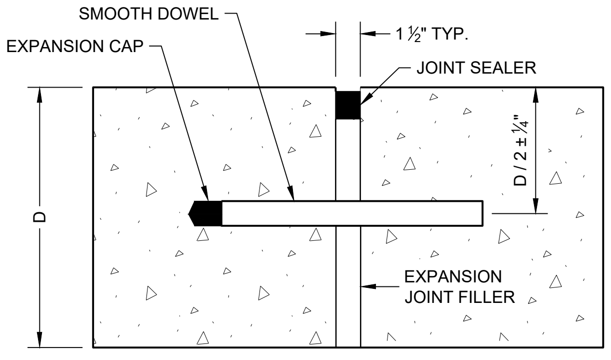
STANDARD INTERSECTION



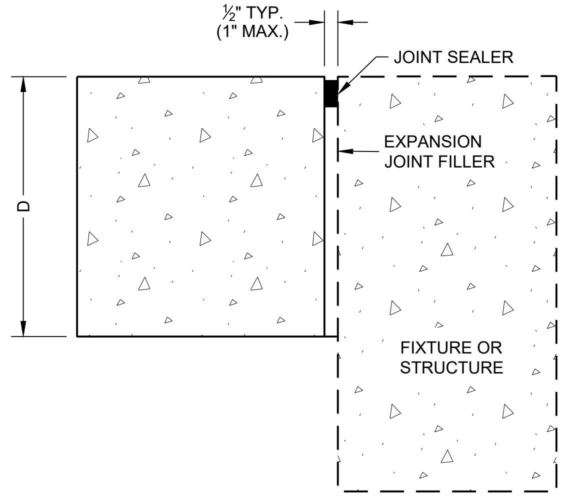
SKEWED INTERSECTION

CONCRETE PAVEMENT STEEL REINFORCEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA



DOWELED TRANSVERSE ①



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10½"	NO. 4	30"	36"
≥ 10½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

① USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.

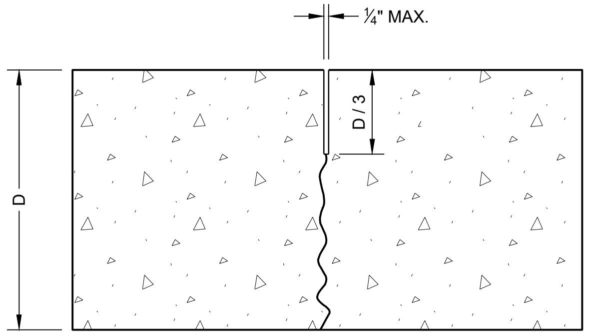
② SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.

③ LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

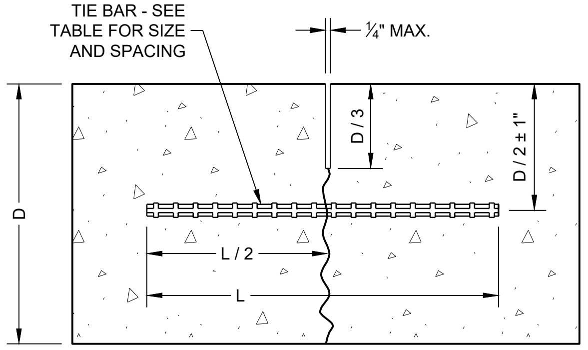
④ CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.

⑤ IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.

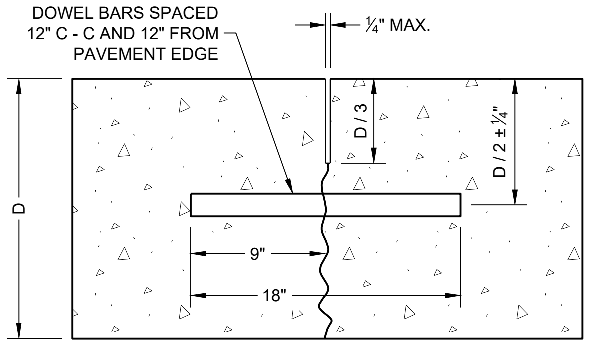
⑥ ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

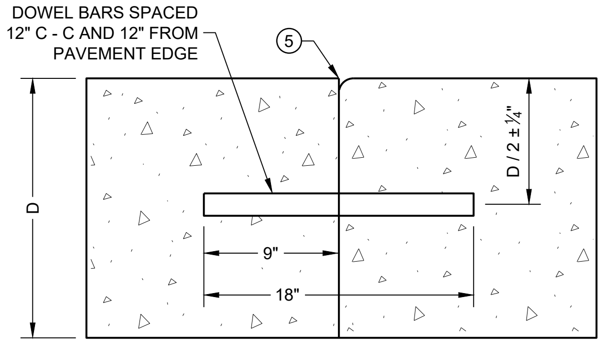


TIED LONGITUDINAL

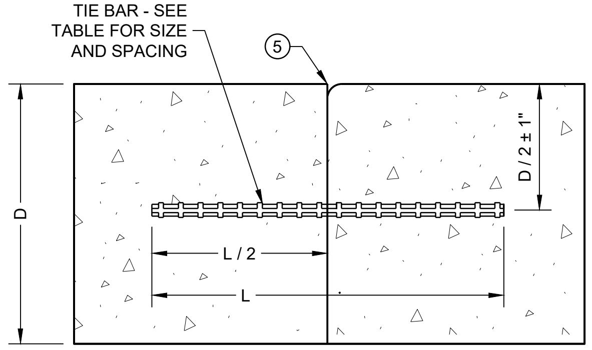


DOWELED TRANSVERSE

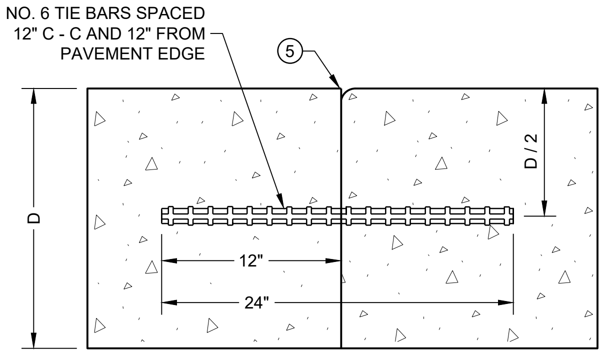
CONTRACTION JOINTS ②



DOWELED TRANSVERSE ③

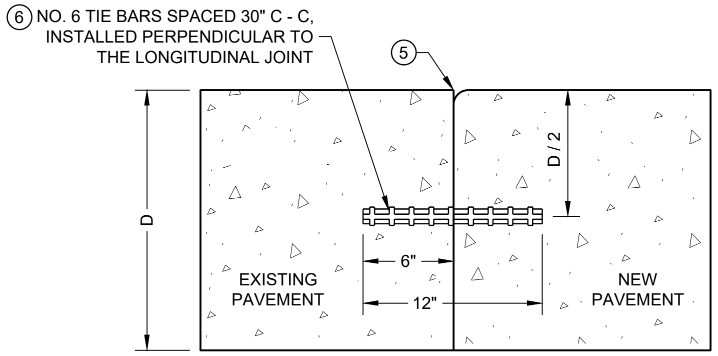


TIED LONGITUDINAL



TIED TRANSVERSE ③

(FOR USE ON NON-DOWELED PAVEMENTS ONLY)

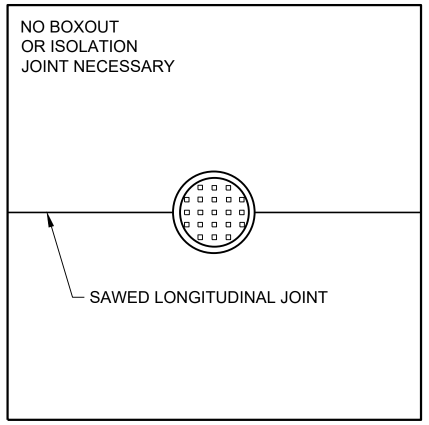


TIED LONGITUDINAL TO EXISTING

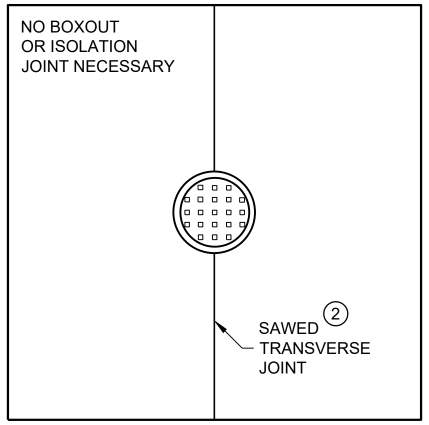
CONSTRUCTION JOINTS ④

CONCRETE PAVEMENT
JOINT TYPES

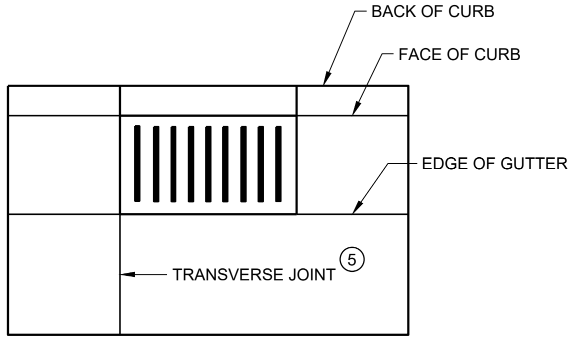
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT



MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



INLET WITH TRANSVERSE JOINT

GENERAL NOTES

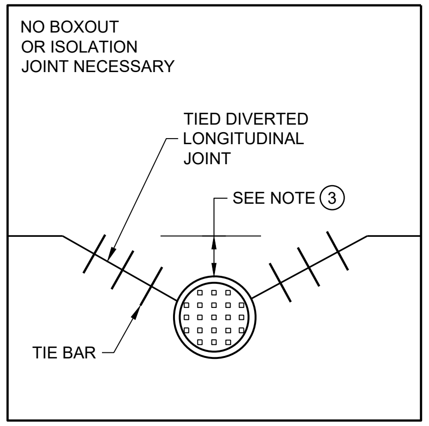
① USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

② ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

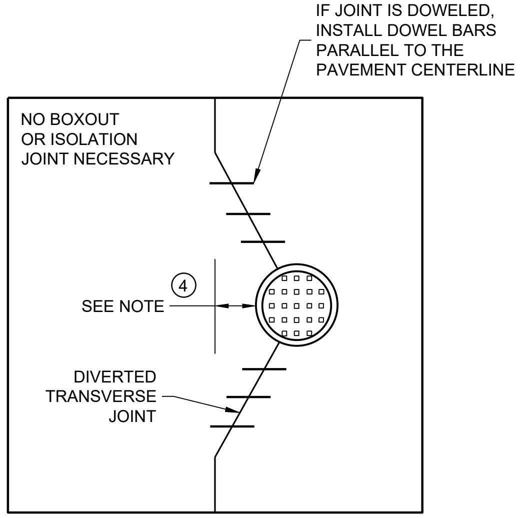
③ IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.

④ IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.

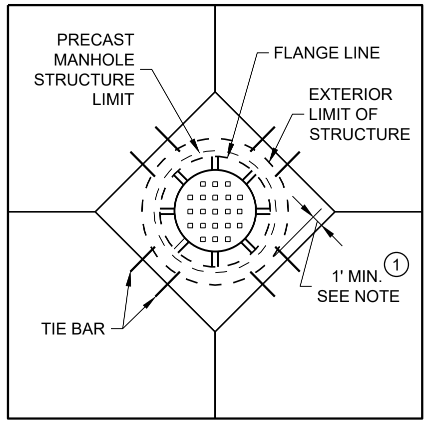
⑤ ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT
JOINTING AT UTILITY
FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Peter Kemp P.E.
DATE PAVEMENT SUPERVIS
FHWA

LEGEND

DOWELED JOINT

TIED JOINT

EXPANSION JOINT

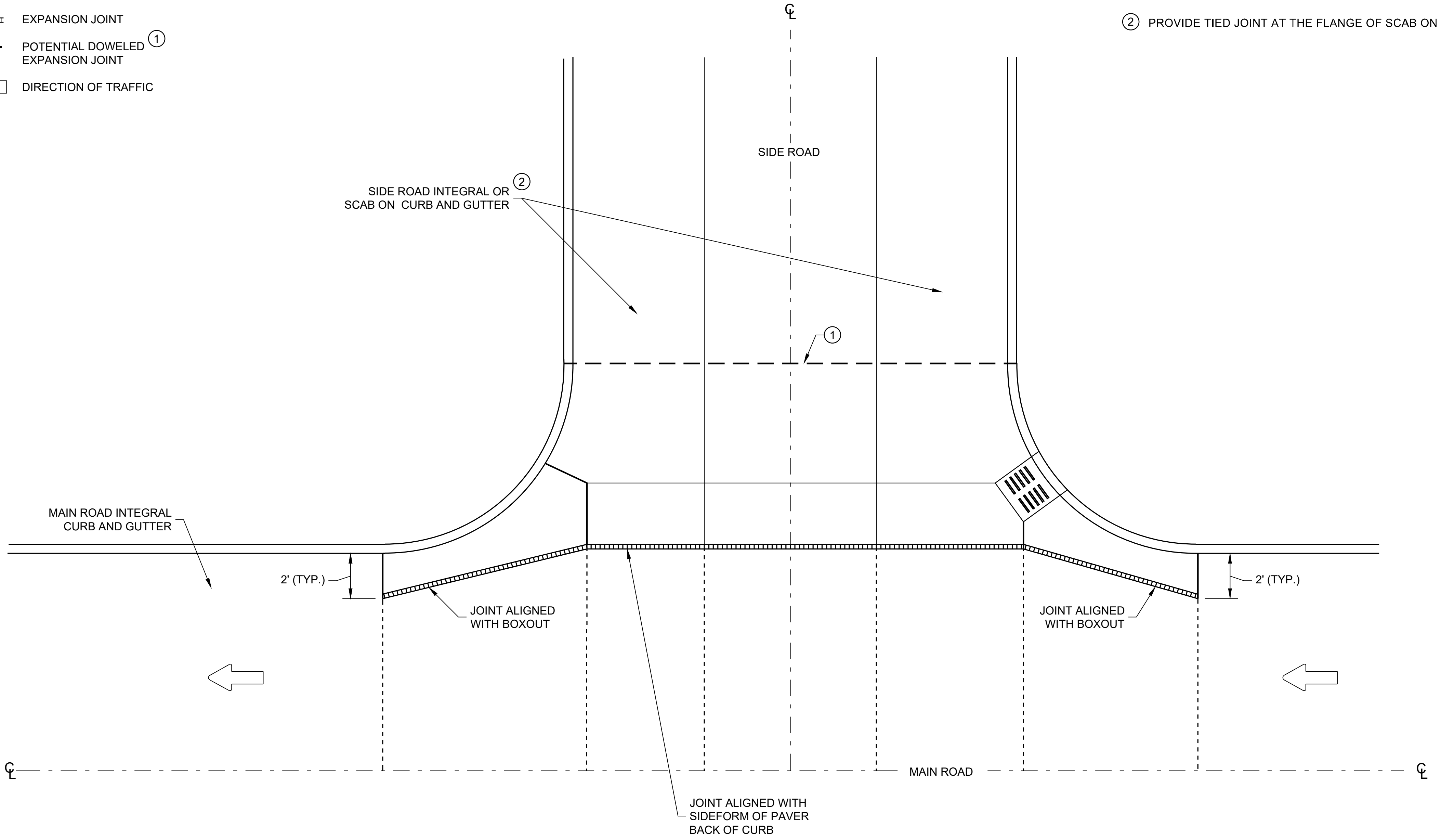
POTENTIAL DOWELED ① EXPANSION JOINT

DIRECTION OF TRAFFIC

GENERAL NOTES

① CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

② PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

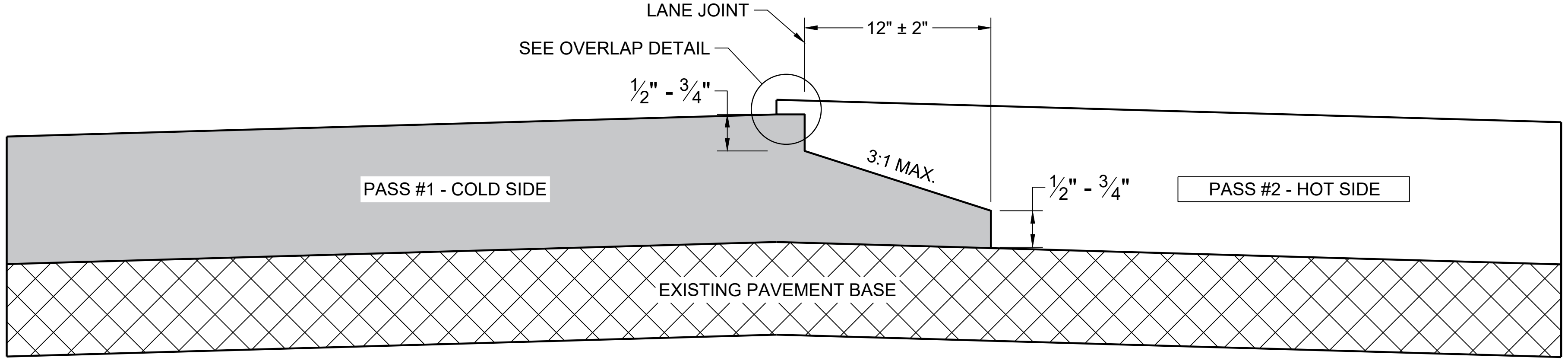


INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

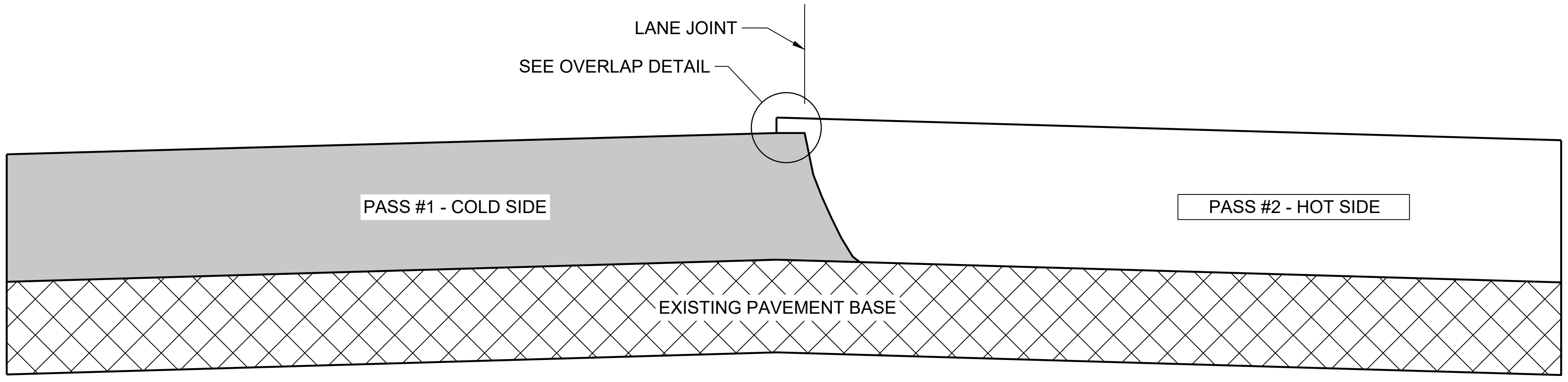
CONCRETE PAVEMENT
INTERSECTION BOXOUT FOR
INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

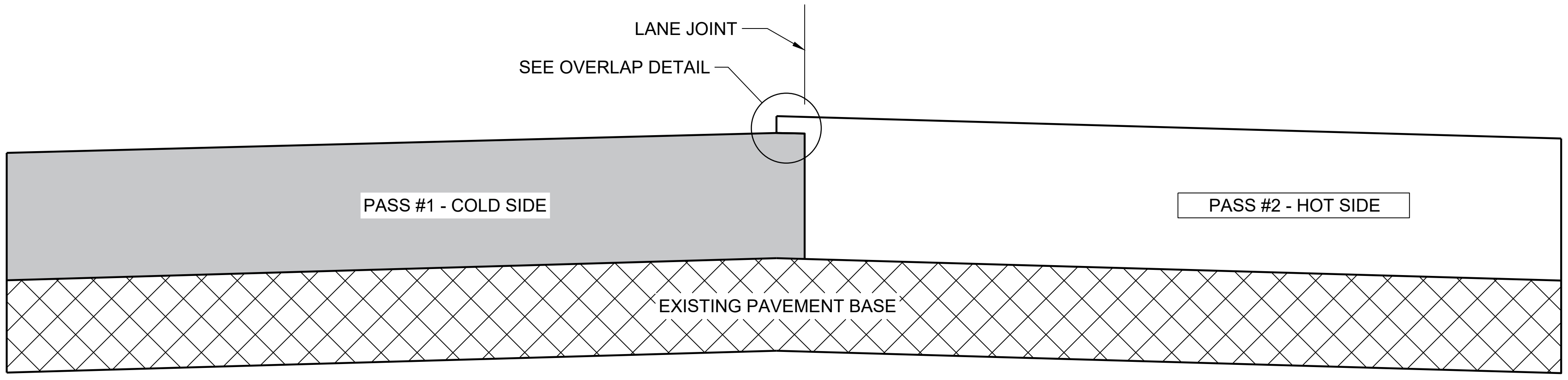
APPROVED
May 2023
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS
FHWA



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

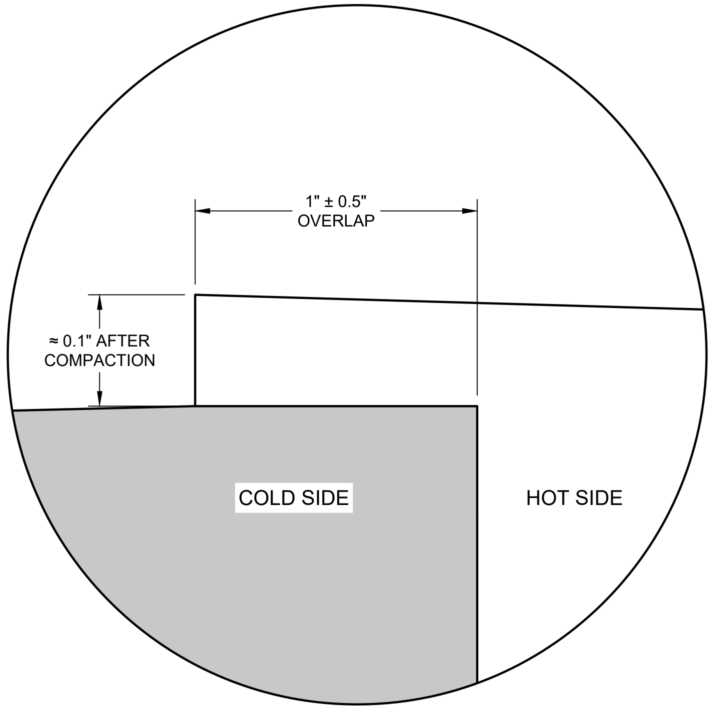
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

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

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

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



OVERLAP DETAIL (TYPICAL)

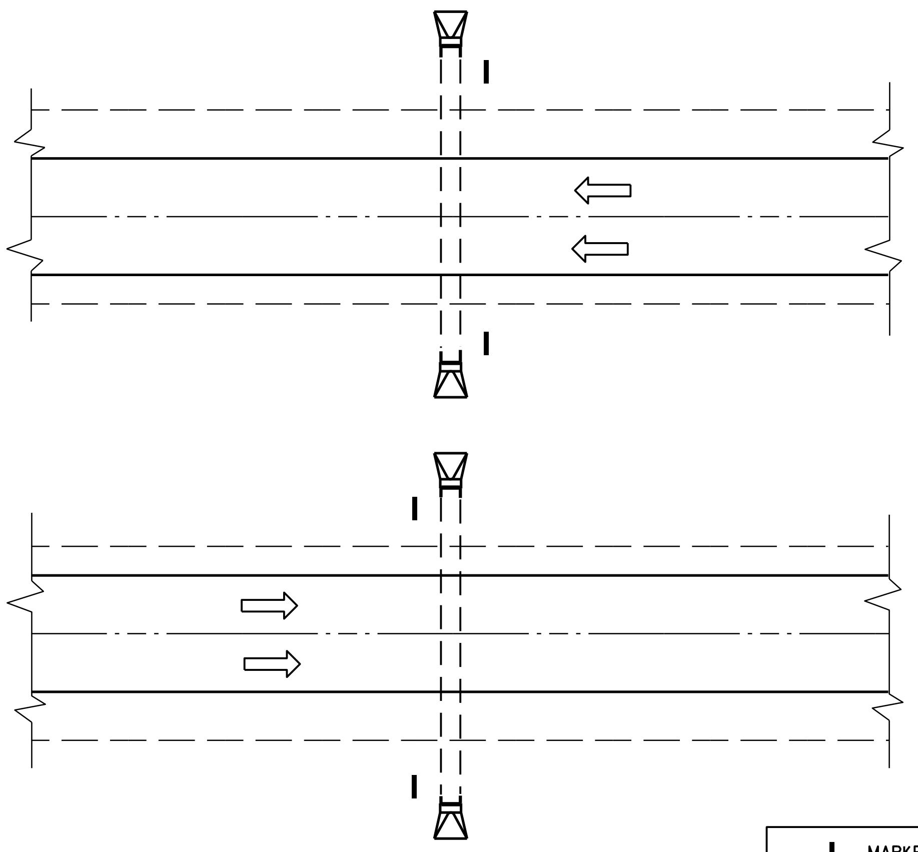
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

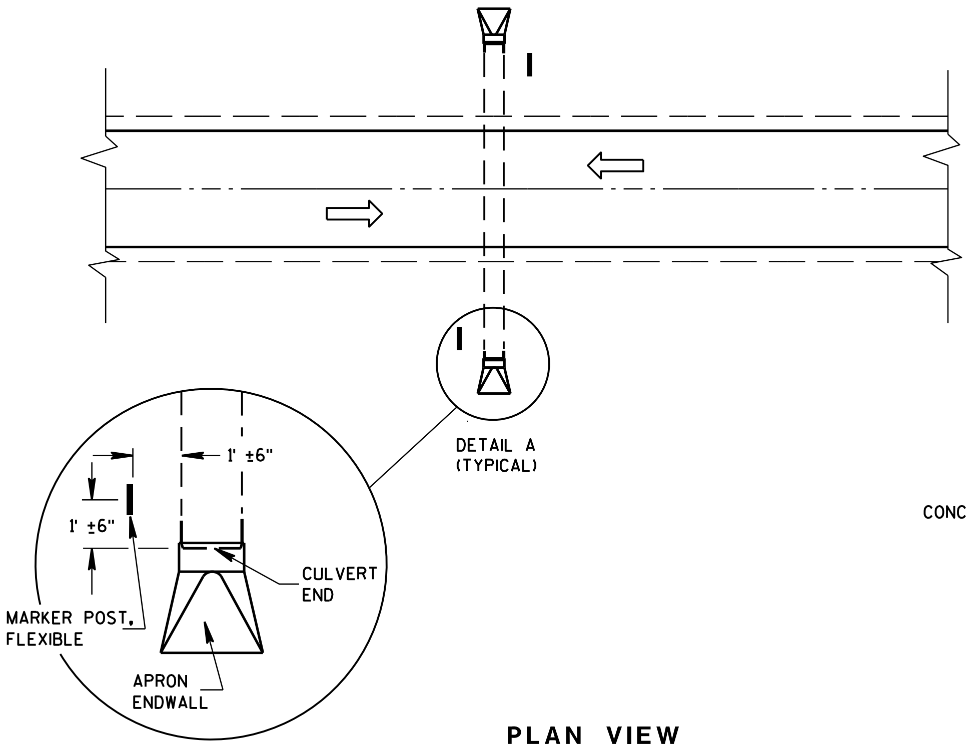
GENERAL NOTES

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

DIVIDED HIGHWAY



DETAIL A

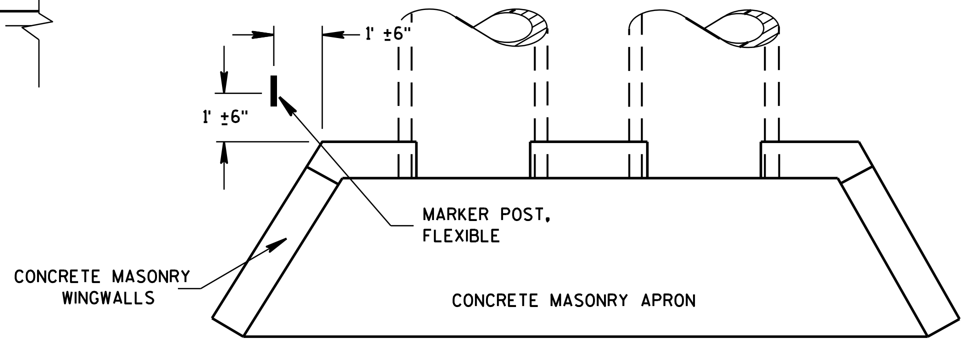
(TYPICAL)

PLAN VIEW

UNDIVIDED HIGHWAY

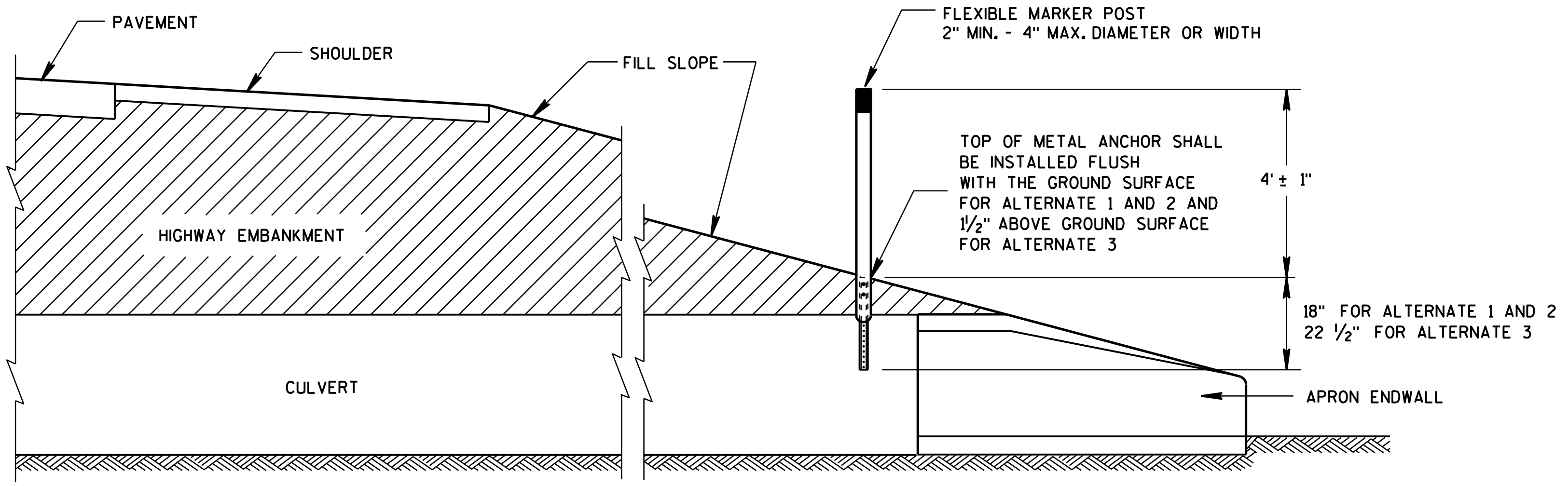
▌	MARKER POST, FLEXIBLE
⇨	DIRECTION OF TRAFFIC FLOW

FLEXIBLE MARKER POST LOCATION



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

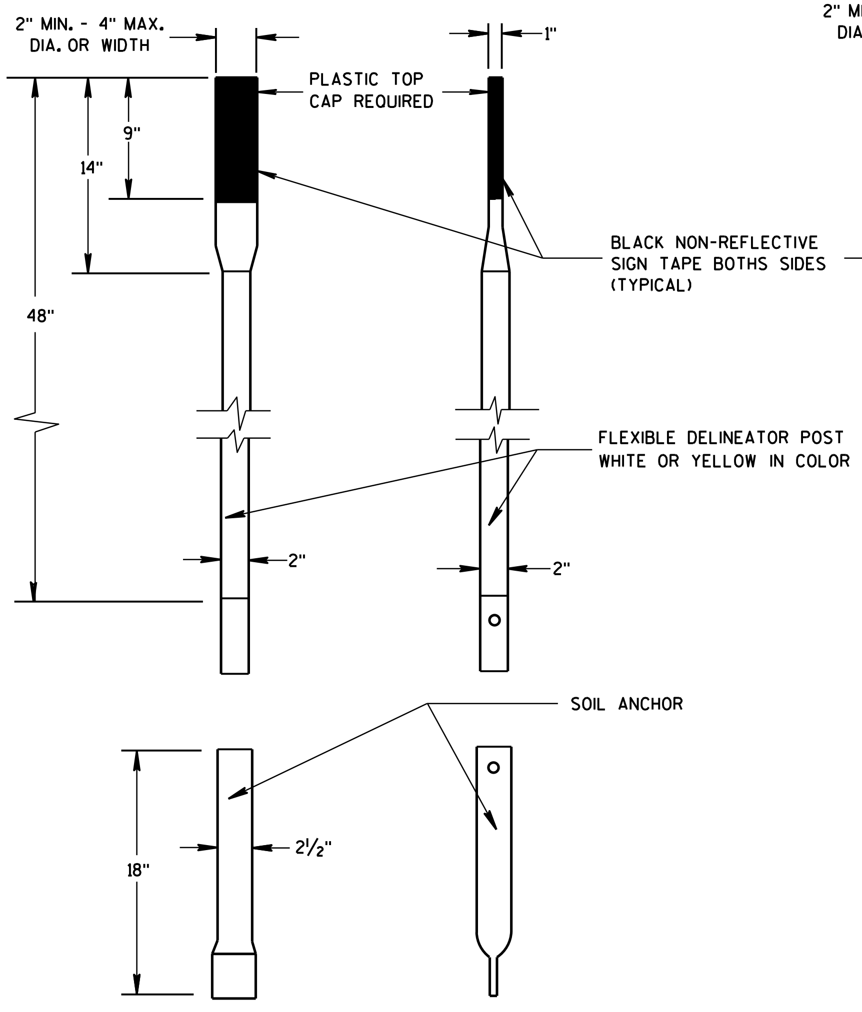


CROSS SECTION

FLEXIBLE MARKER POST

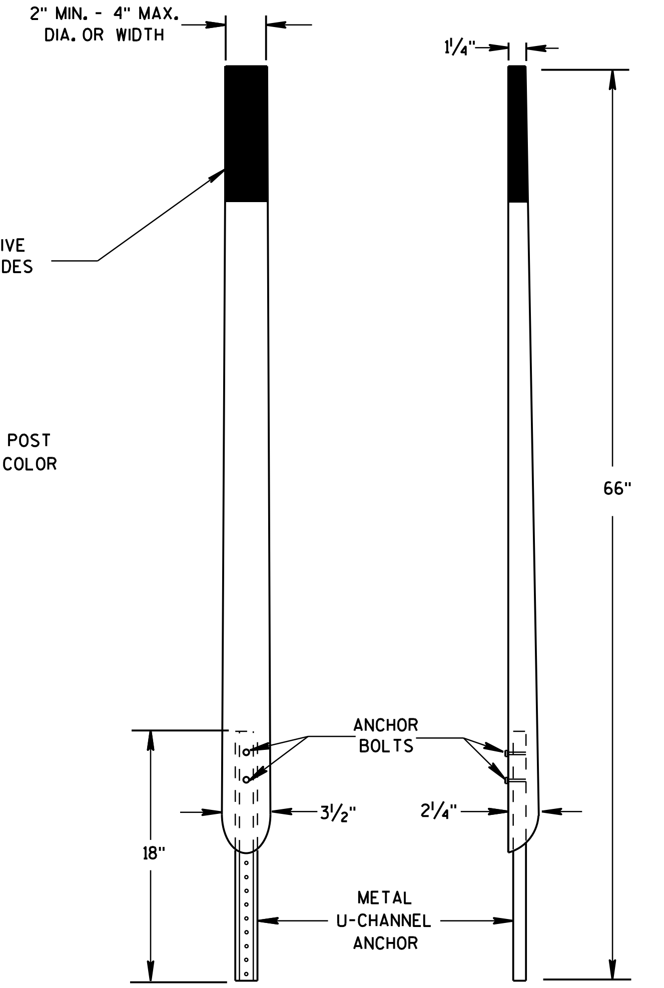
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO



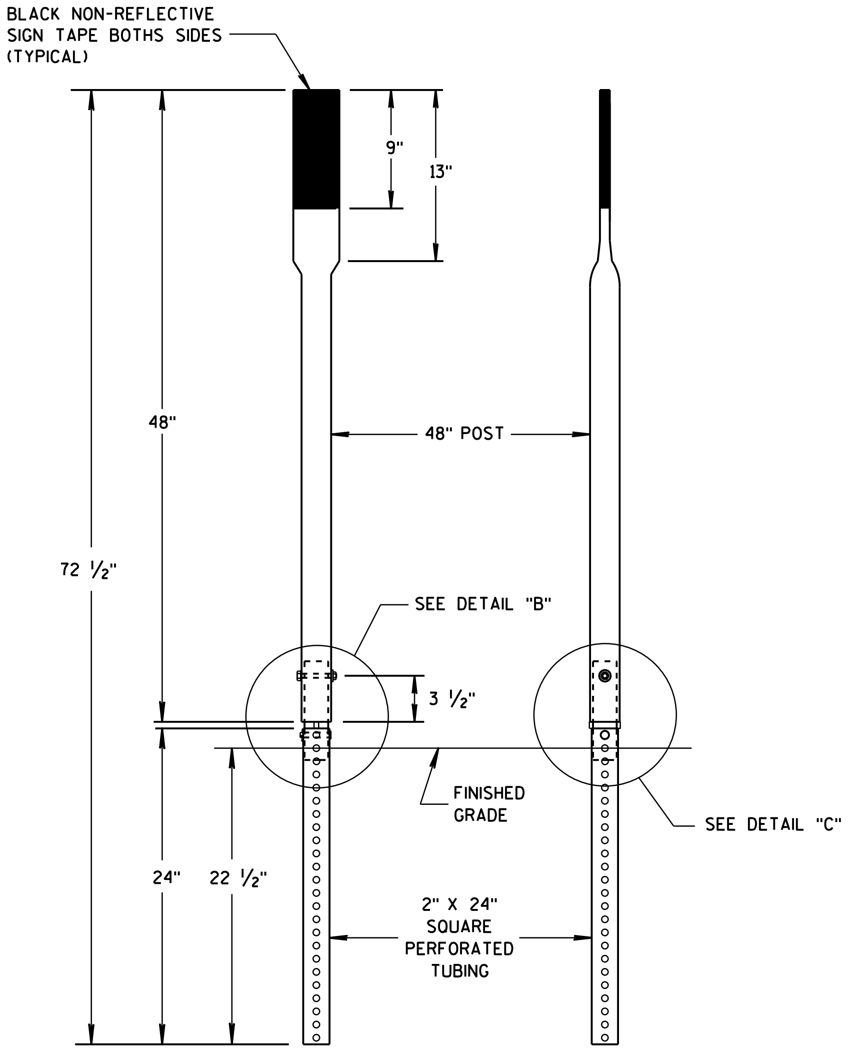
FRONT VIEW SIDE VIEW

ALTERNATE 1



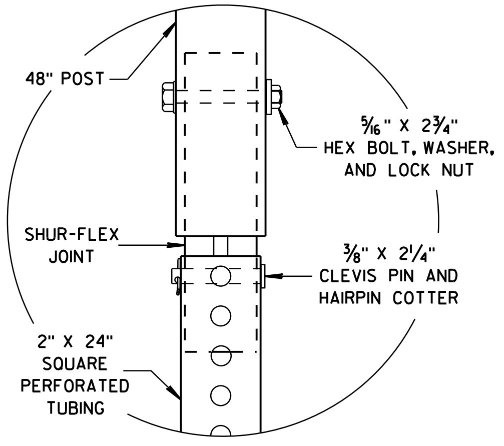
FRONT VIEW SIDE VIEW

ALTERNATE 2

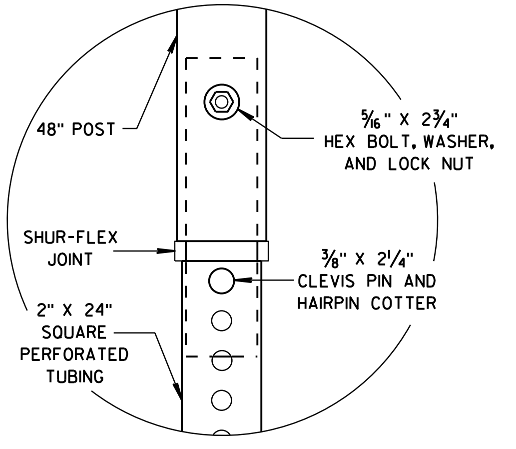


FRONT VIEW SIDE VIEW

ALTERNATE 3

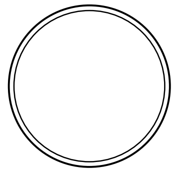


DETAIL B

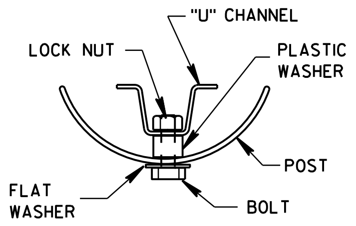


DETAIL C

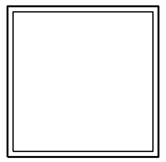
FLEXIBLE MARKER POSTS



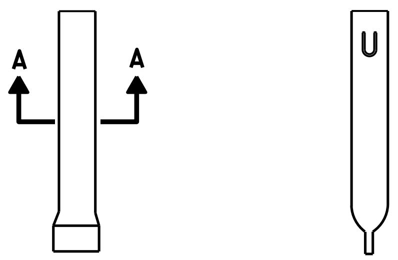
SECTION A-A



SECTION B-B

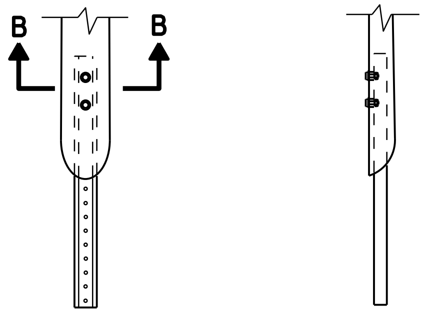


SECTION C-C



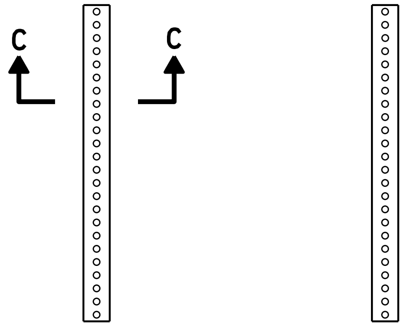
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

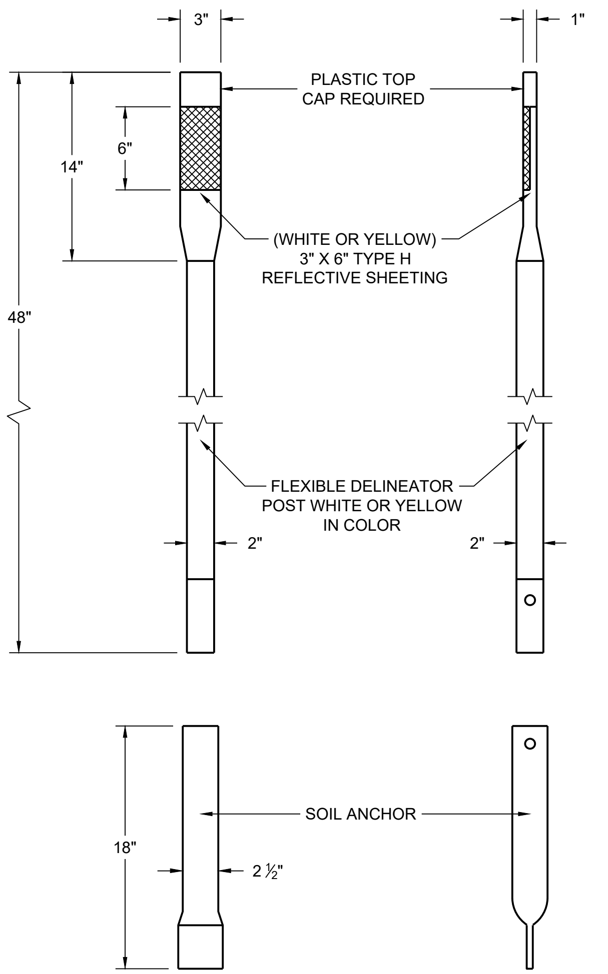
ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

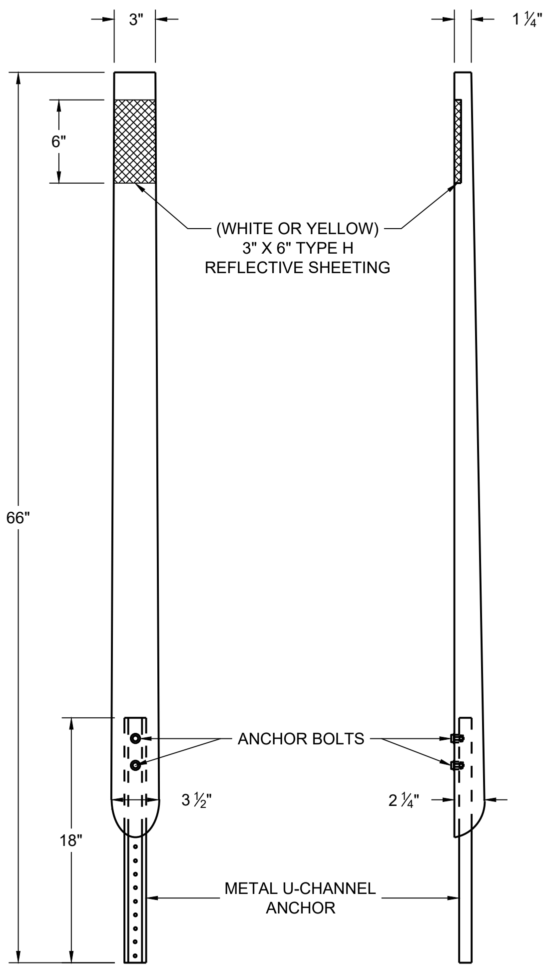
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



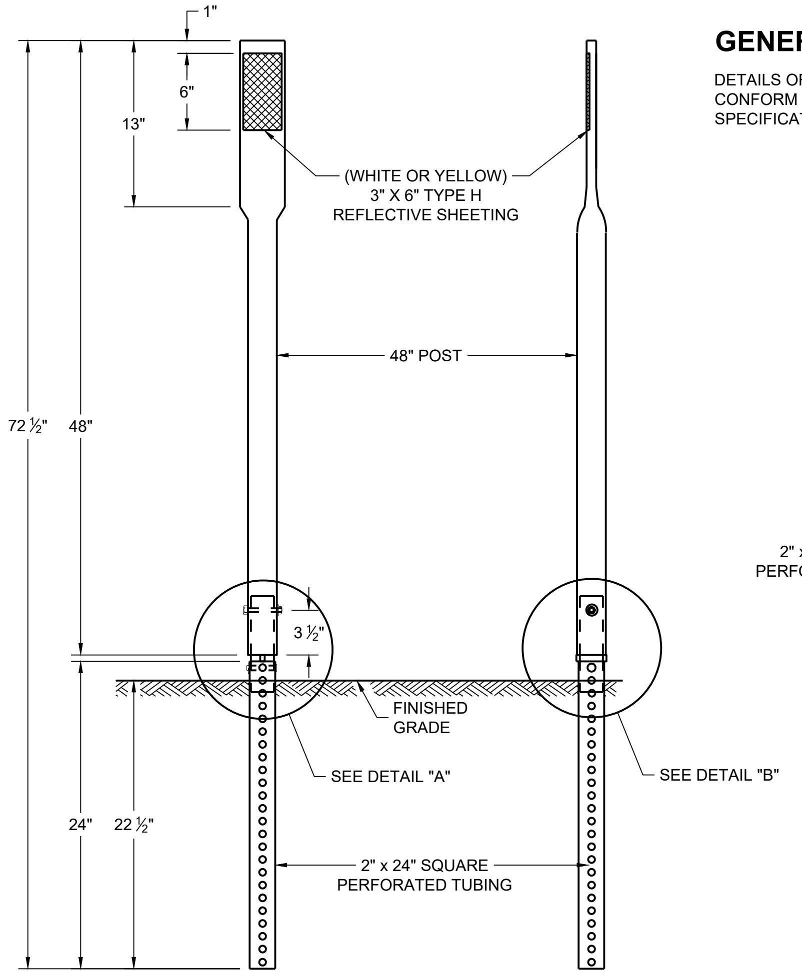
FRONT VIEW **SIDE VIEW**

ALTERNATE 1



FRONT VIEW **SIDE VIEW**

ALTERNATE 2



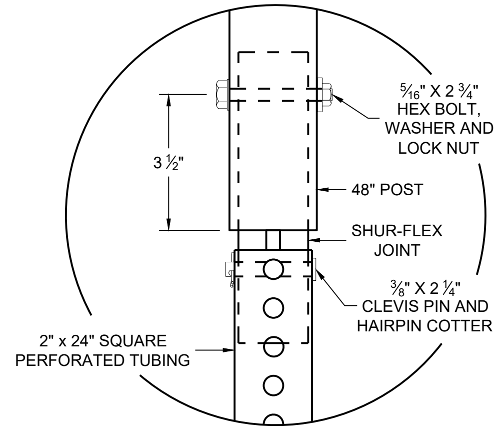
FRONT VIEW **SIDE VIEW**

ALTERNATE 3

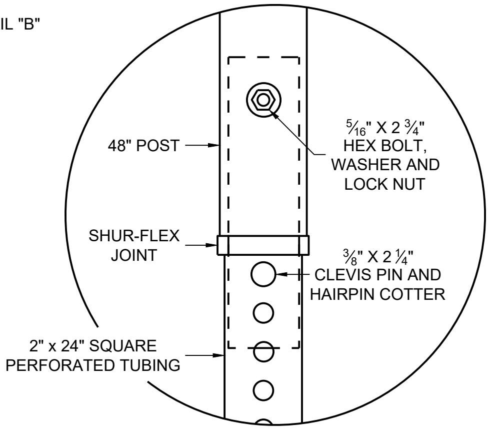
FLEXIBLE DELINEATOR POSTS

GENERAL NOTES

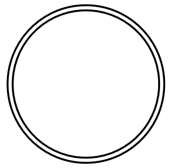
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



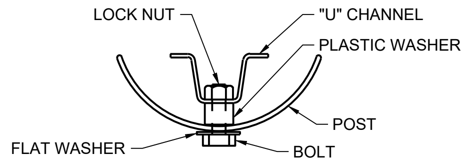
DETAIL A



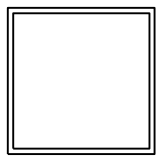
DETAIL B



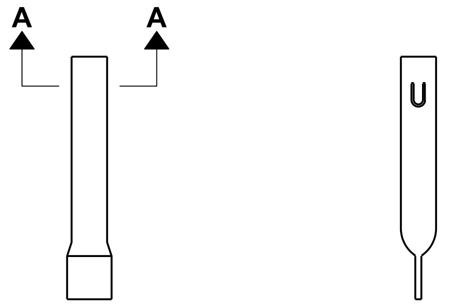
SECTION A - A



SECTION B - B

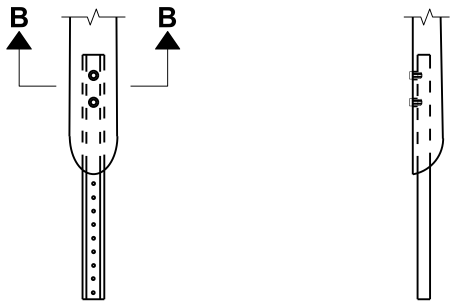


SECTION C - C



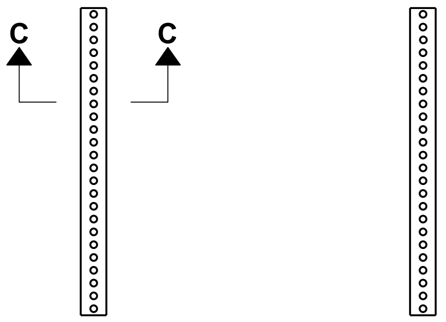
FRONT VIEW **SIDE VIEW**

ALTERNATE 1



FRONT VIEW **SIDE VIEW**

ALTERNATE 2



FRONT VIEW **SIDE VIEW**

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

REFLECTOR SPACING TABLE

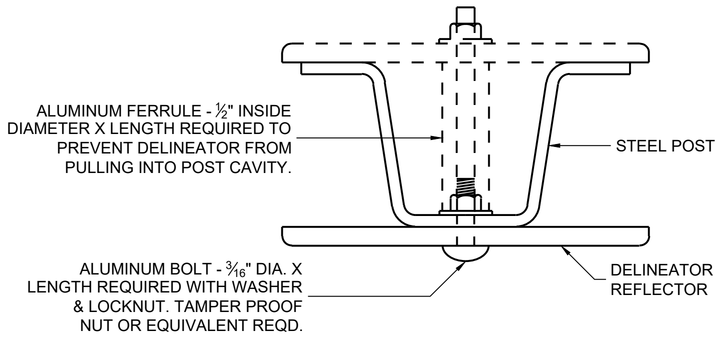
REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER

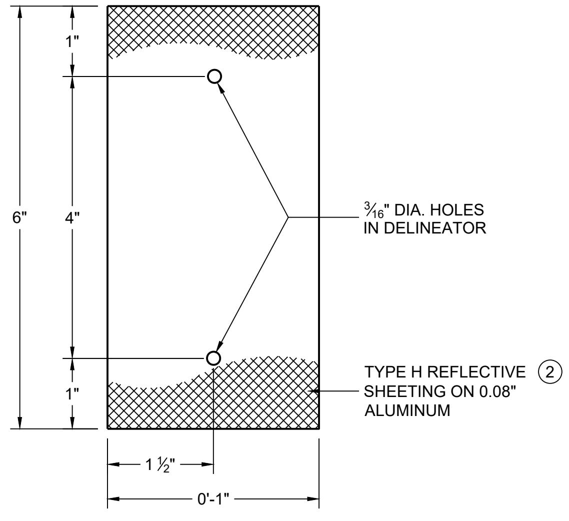
FLEXIBLE DELINEATOR POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

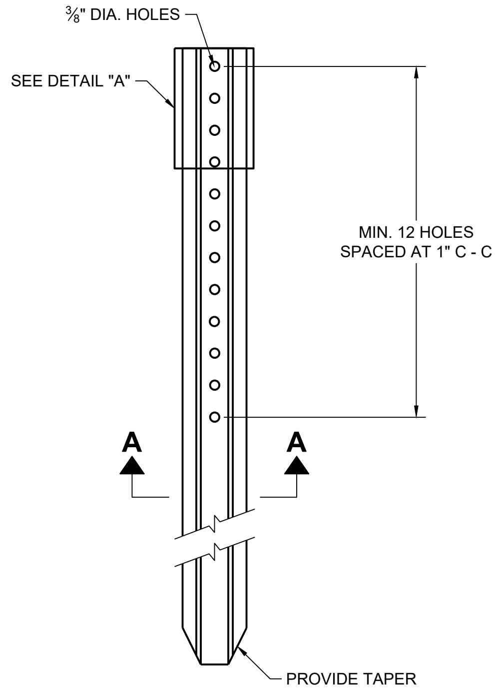
APPROVED
March 2024
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA



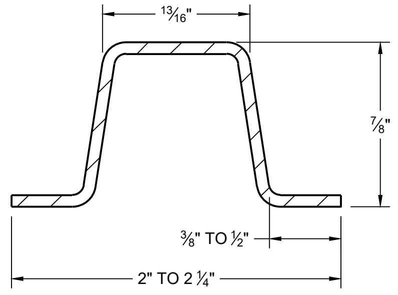
MOUNTING DETAIL FOR DELINEATOR REFLECTOR



DETAIL "A" 3" X 6" DELINEATOR REFLECTOR



DELINEATOR POST



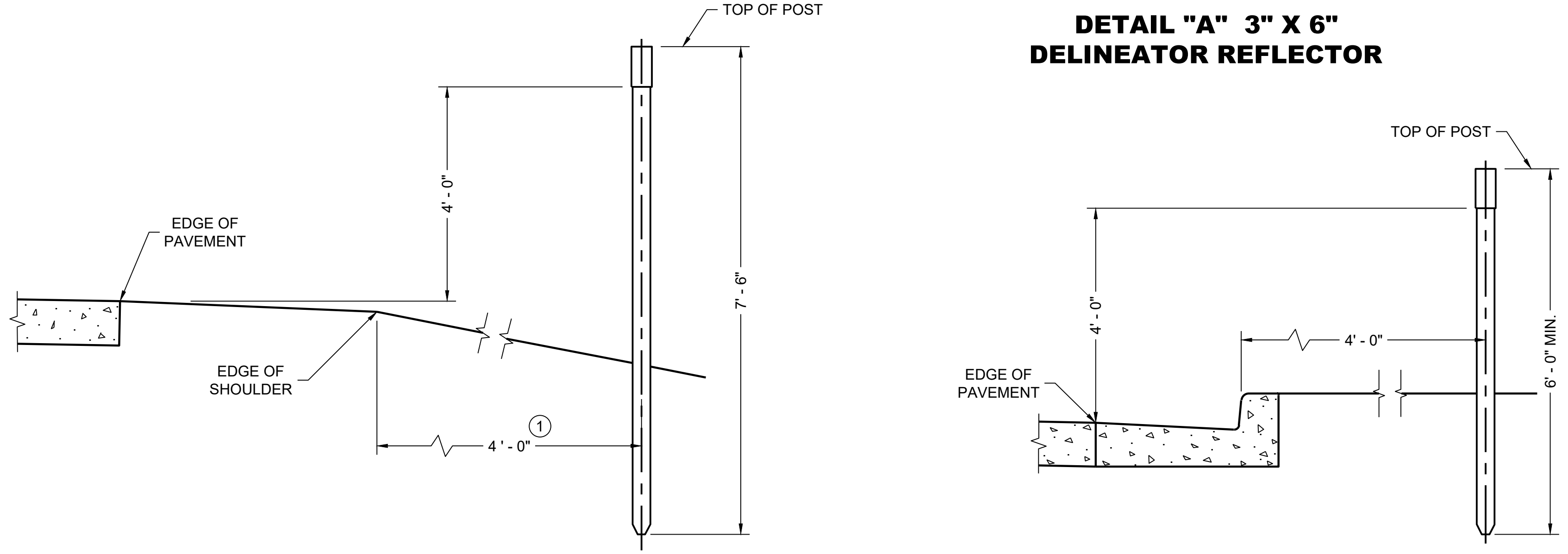
SECTION A - A

WEIGHT 1.12 LBS PER FT. \ 0.1 LB.

REFLECTOR SPACING TABLE

REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER



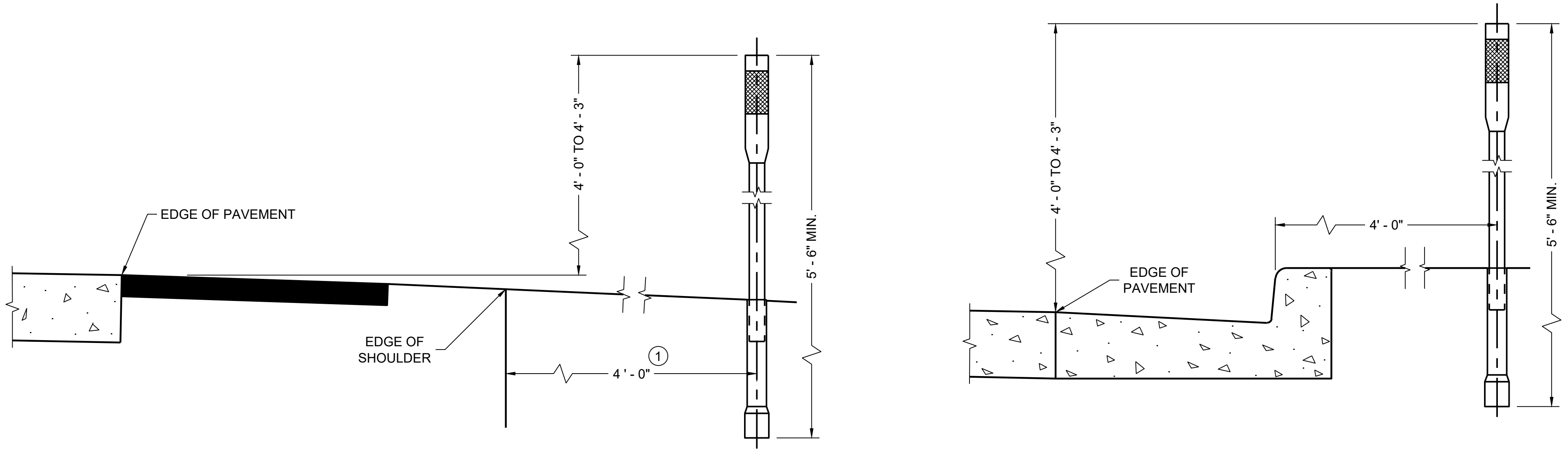
TYPICAL INSTALLATIONS OF DELINEATOR POSTS

GENERAL NOTES

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

① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.

② FURNISH TYPE H SHEETING FROM THE APPROVED PRODUCTS LIST.

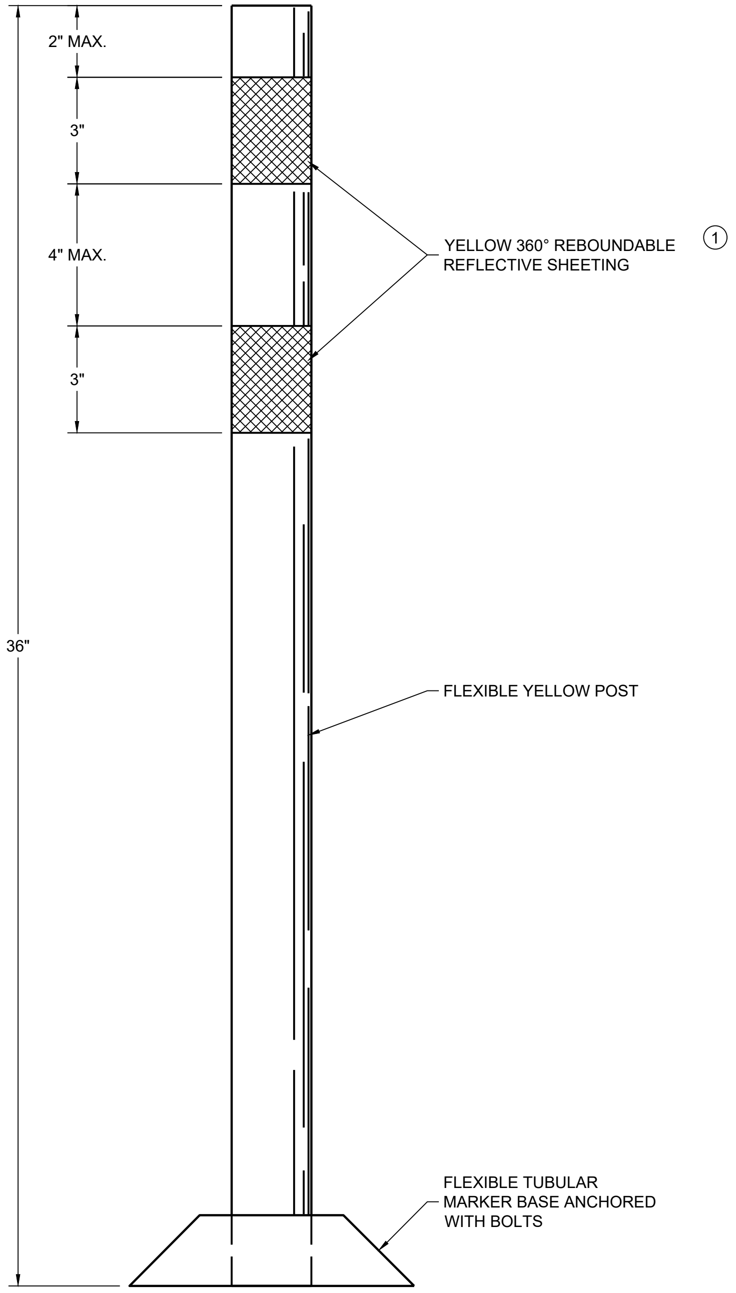


TYPICAL INSTALLATIONS OF FLEXIBLE DELINEATOR POSTS

DELINEATOR POST
WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



PERMANENT FLEXIBLE TUBULAR MARKER POST

GENERAL NOTES

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

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

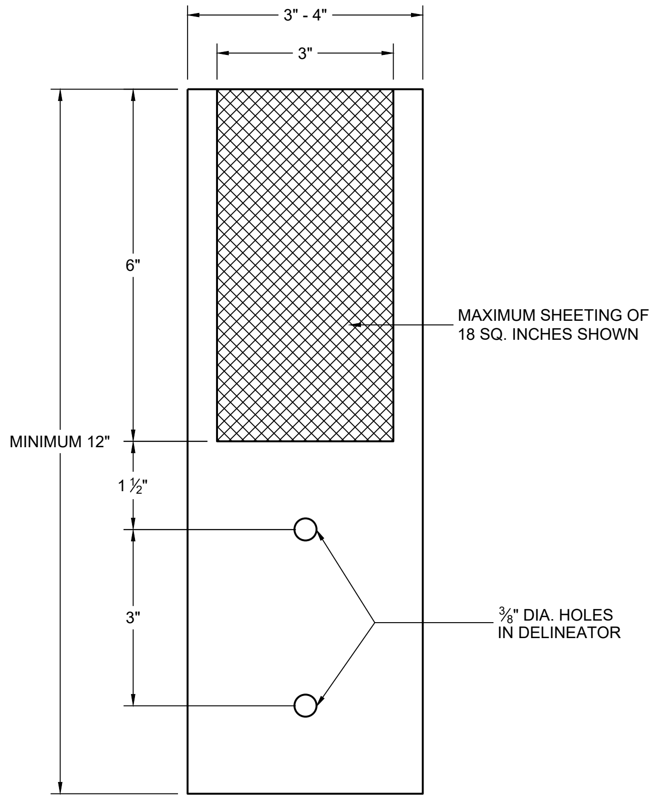
THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

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

CHANNELIZING DEVICES
PERMANENT FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



4" x 12" DELINEATOR
WITH REFLECTIVE SHEETING

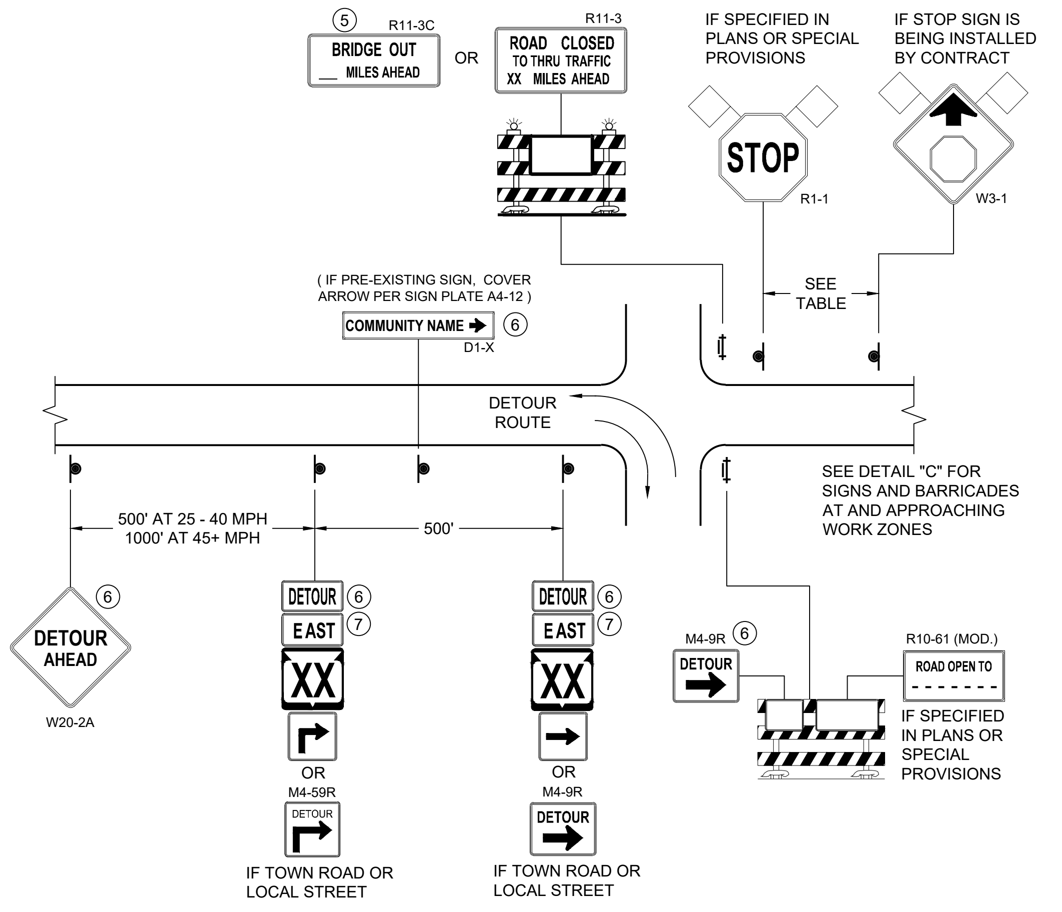
REFLECTOR SPACING TABLE

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

DELINEATOR POST
WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

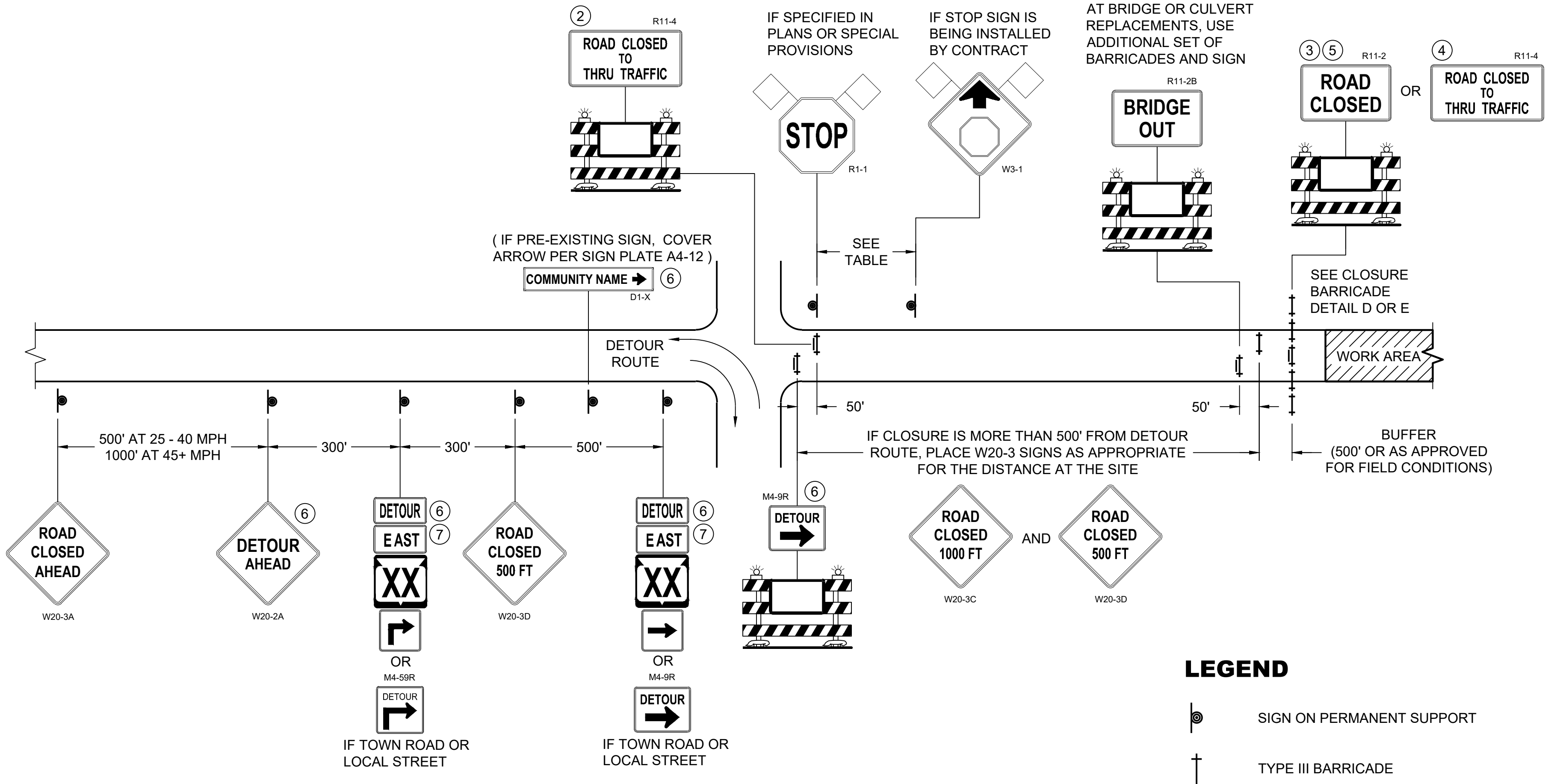
APPROVED
March 2024
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

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

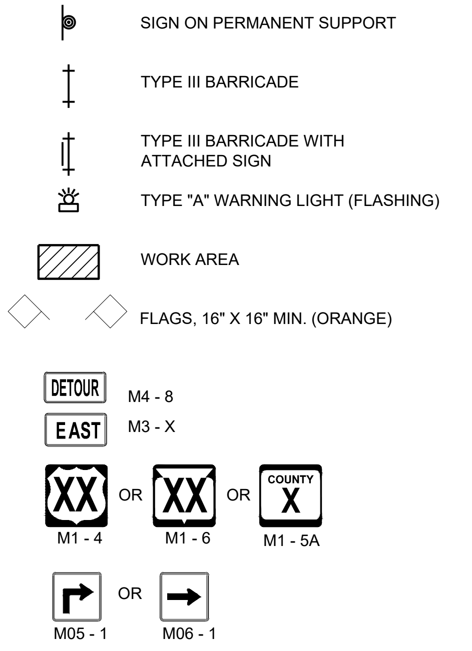


DETAIL B

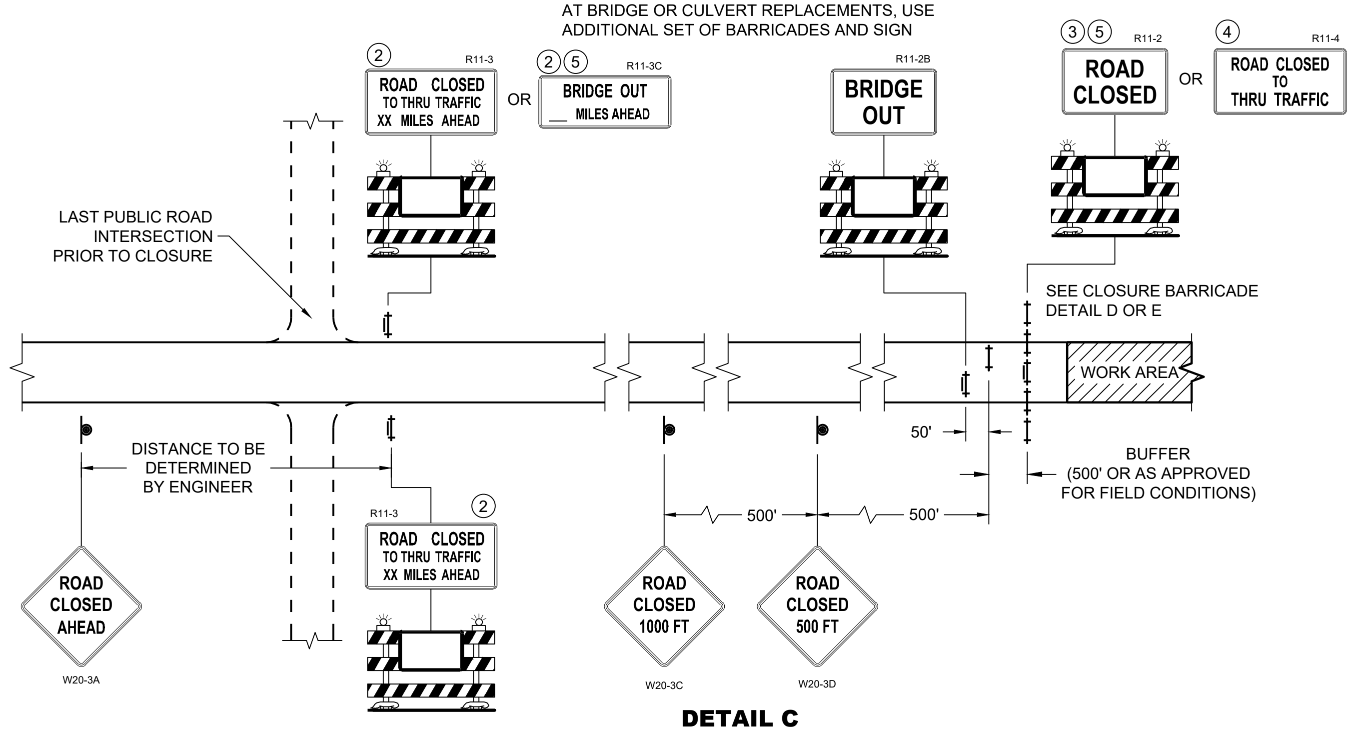
MAINLINE CLOSURE WITH POSTED DETOUR

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

LEGEND



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



DETAIL C

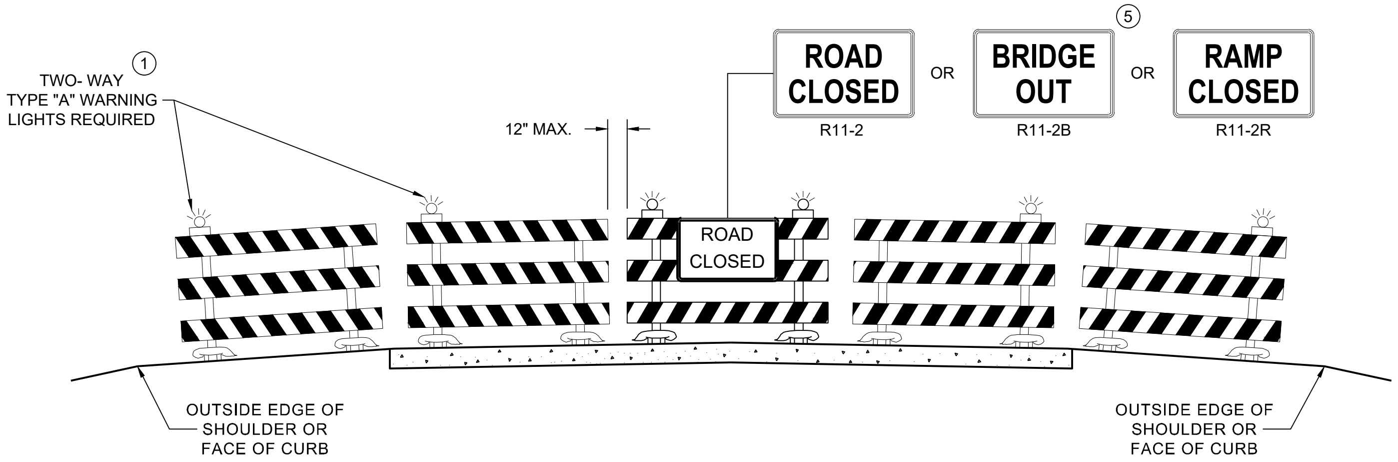
MAINLINE CLOSURE, NO POSTED DETOUR

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

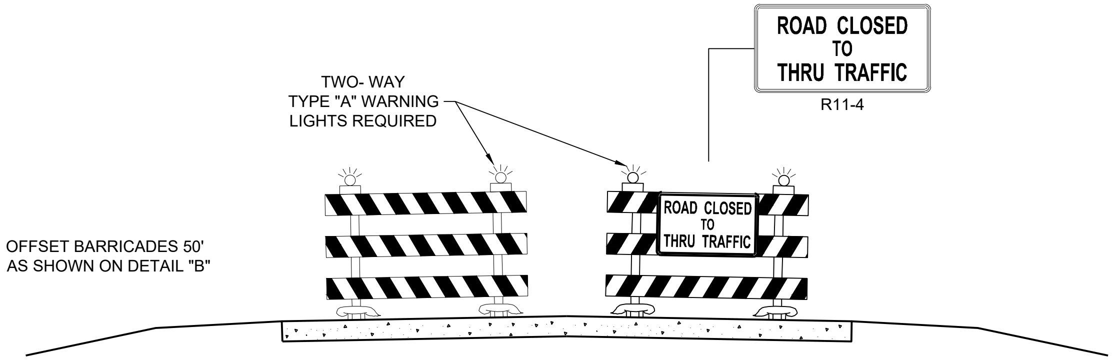
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

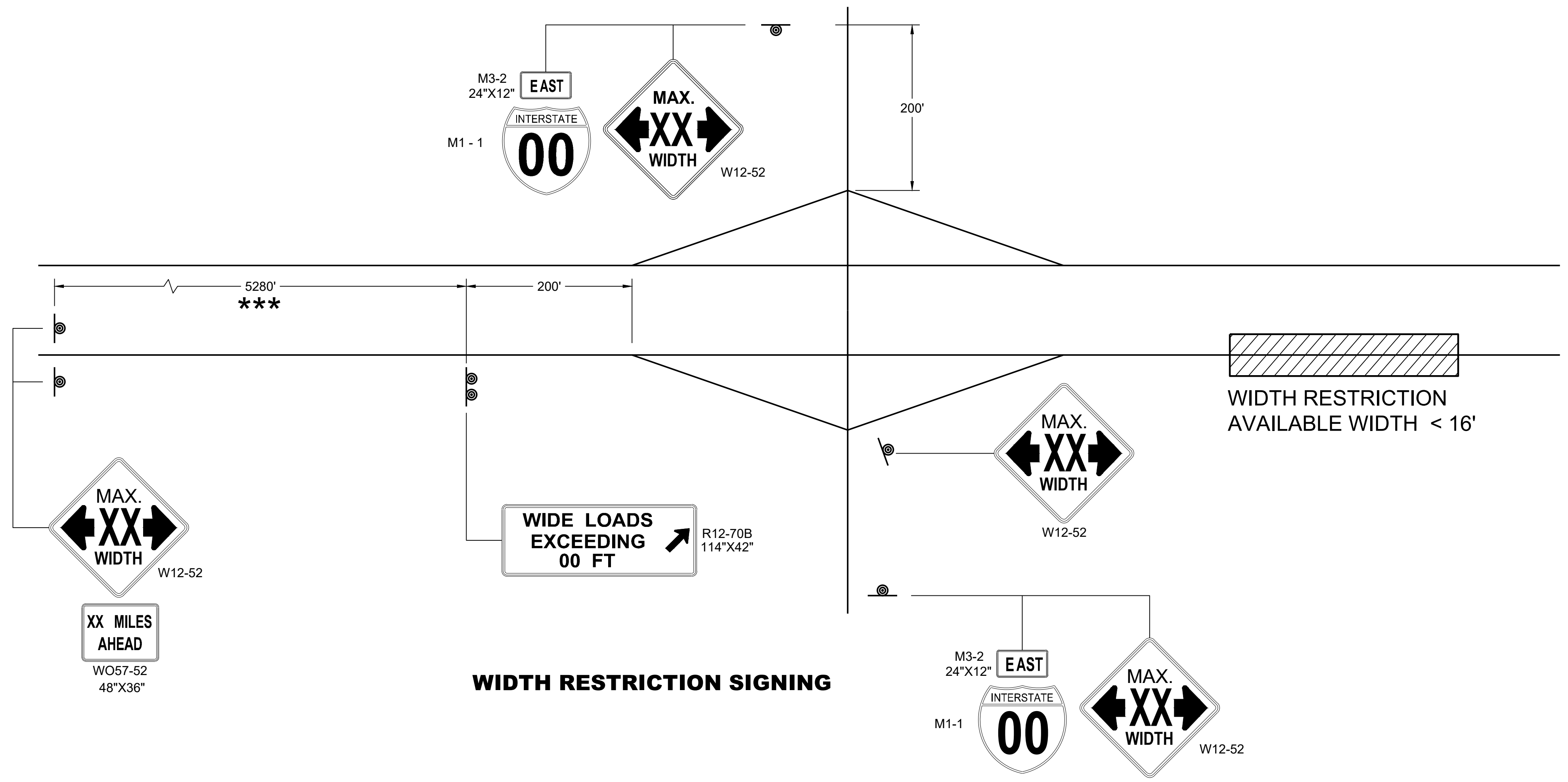
⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC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

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

BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



WIDTH RESTRICTION SIGNING

LEGEND

◎ SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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

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

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

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

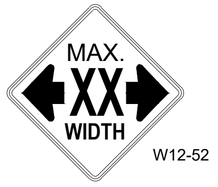
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

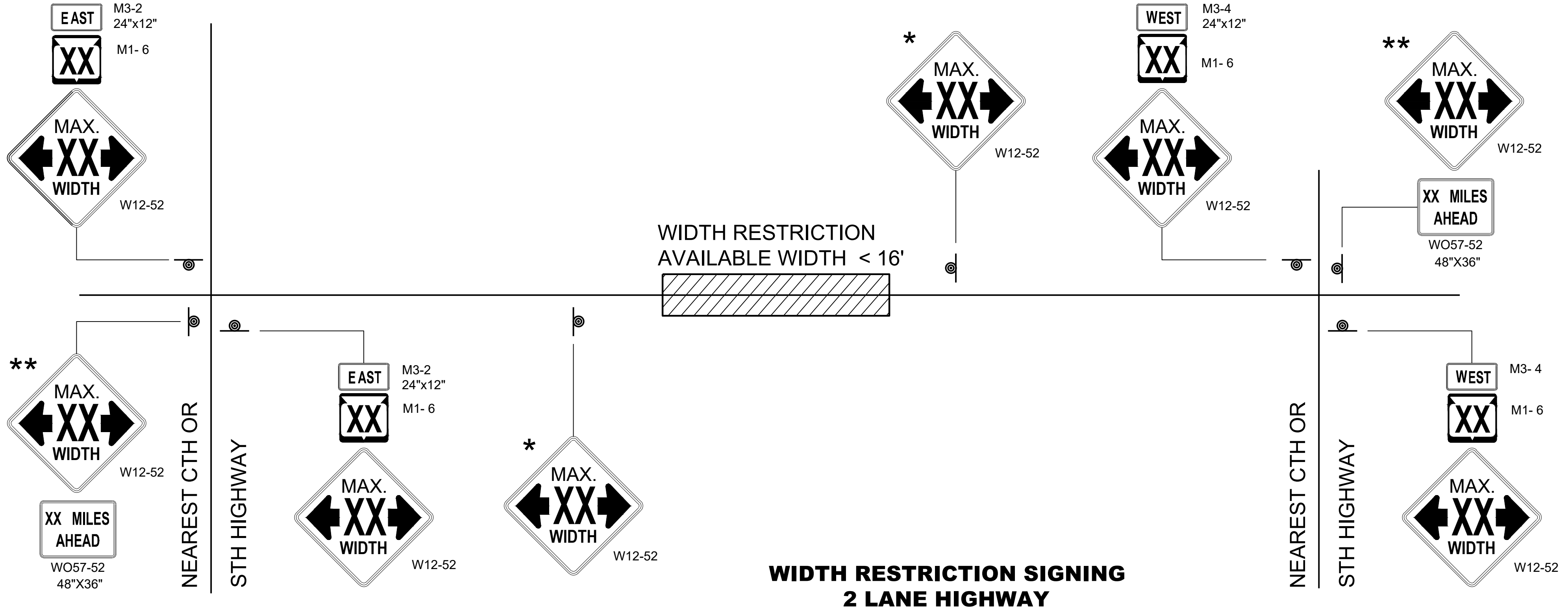
* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE
APPROX. 1 - FOOT LESS
THAN AVAILABLE WIDTH

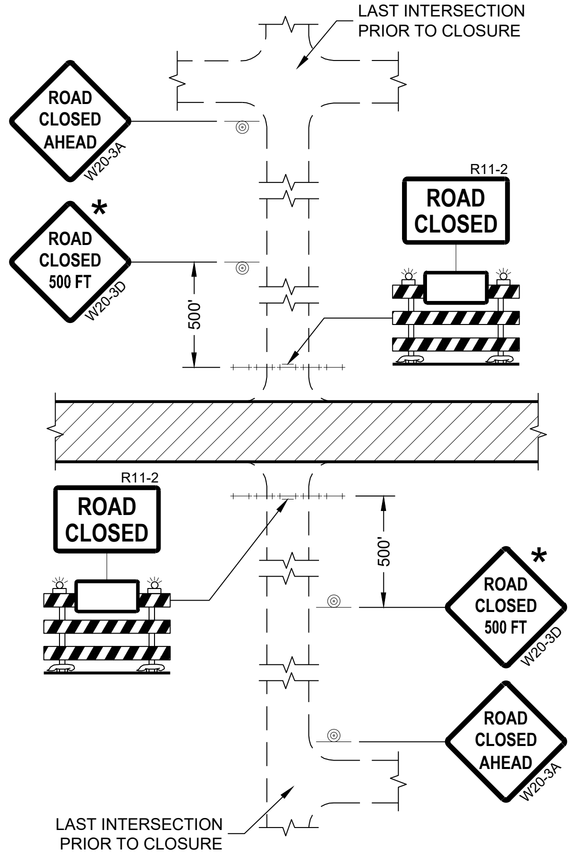


WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

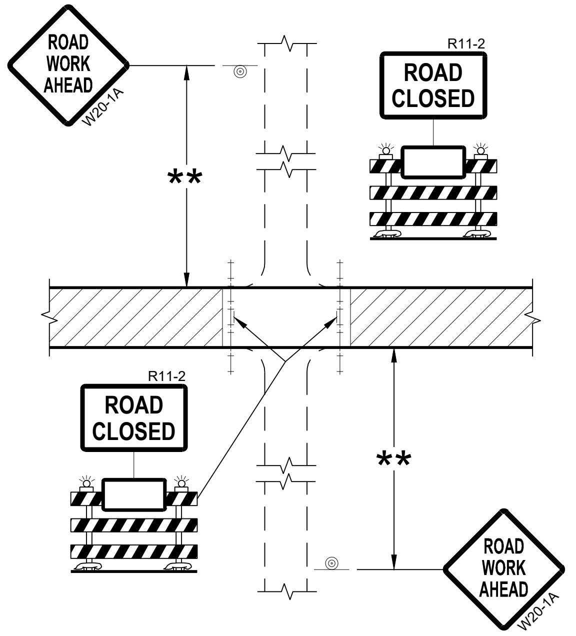
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



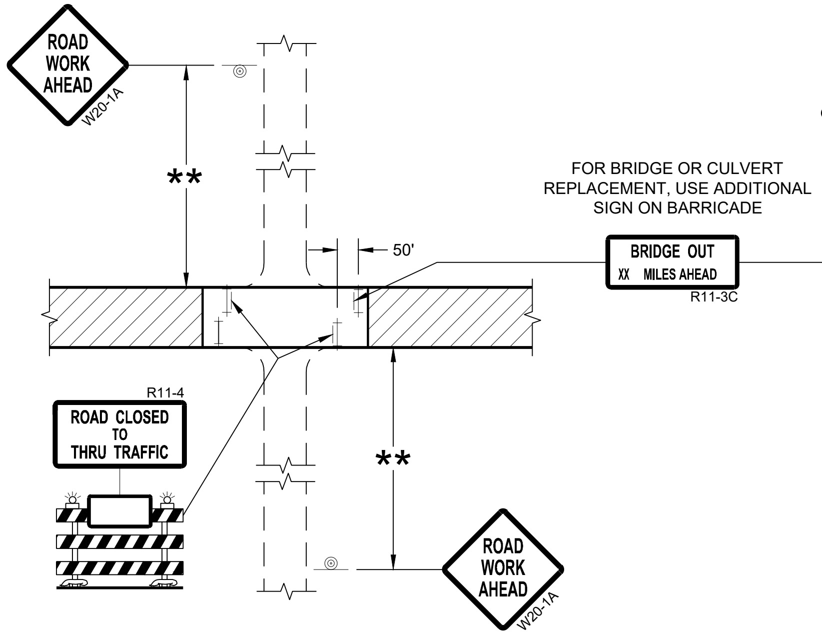
DETAIL 1

(NO ACCESS TO PROJECT)



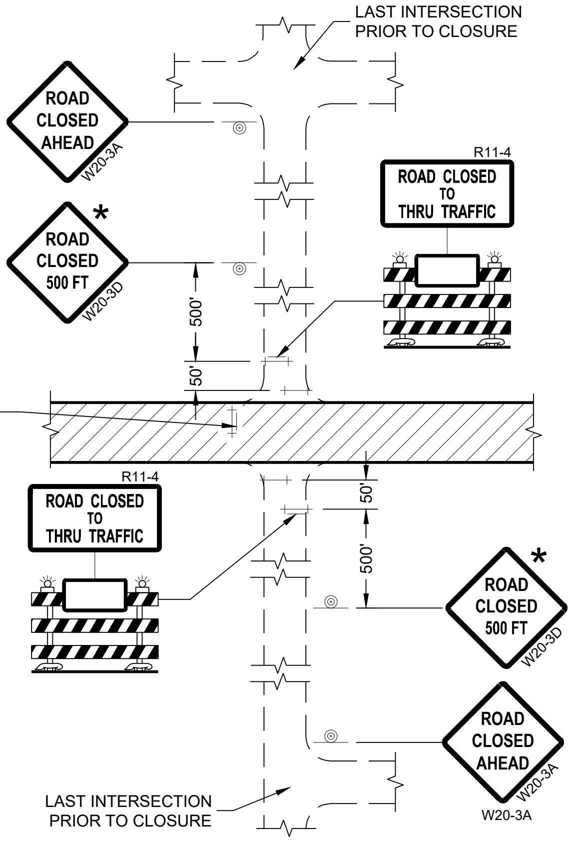
DETAIL 2

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



DETAIL 3

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



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

LEGEND

◎	SIGN ON PERMANENT SUPPORT
┼	TYPE III BARRICADE
┼	TYPE III BARRICADE WITH ATTACHED SIGN
☼	TYPE "A" WARNING LIGHT (FLASHING)
▨	WORK AREA

**BARRICADES AND SIGNS
FOR
SIDEROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

GENERAL NOTES

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

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

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

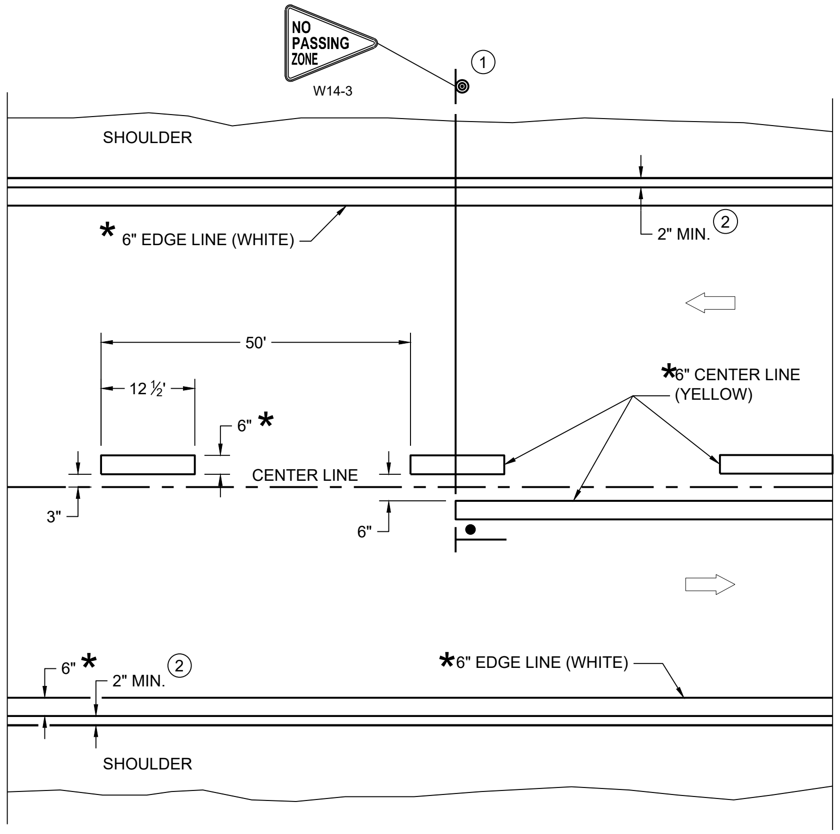
LEGEND

⊢● "T" MARKING

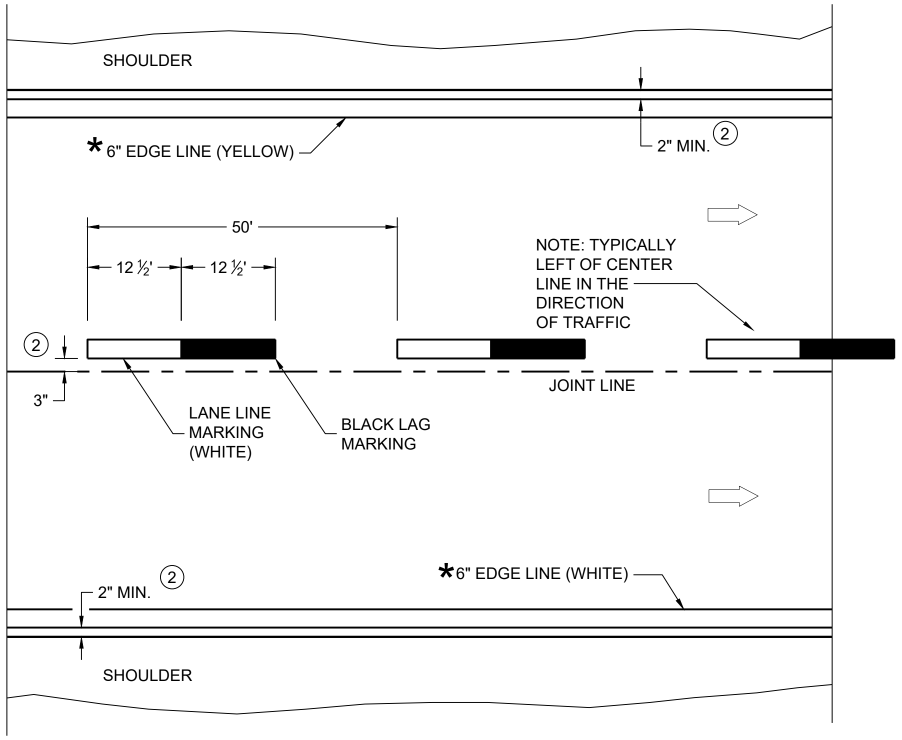
◉ SIGN ON PERMANENT SUPPORT

⇨ DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



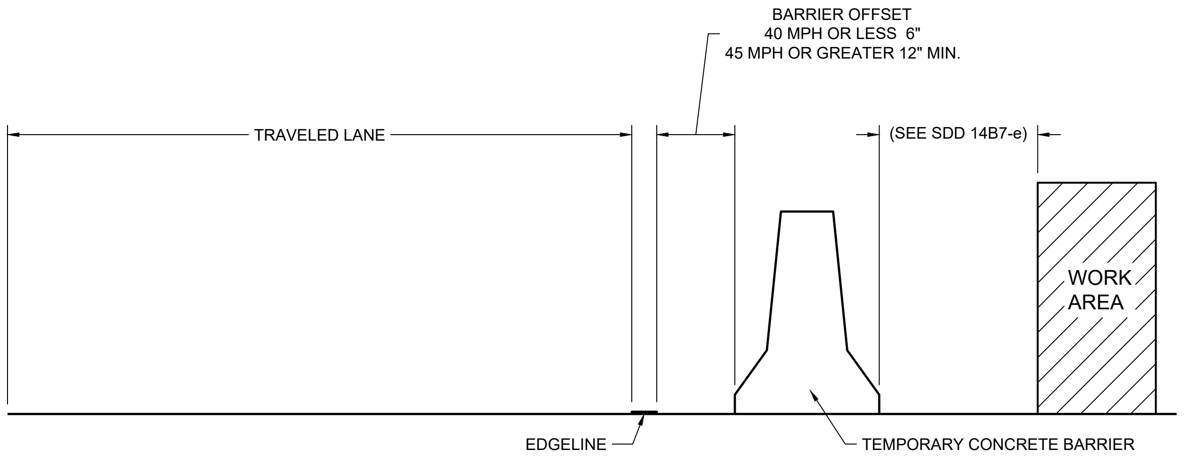
ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



TEMPORARY BARRIER OFFSET FROM EDGELINE

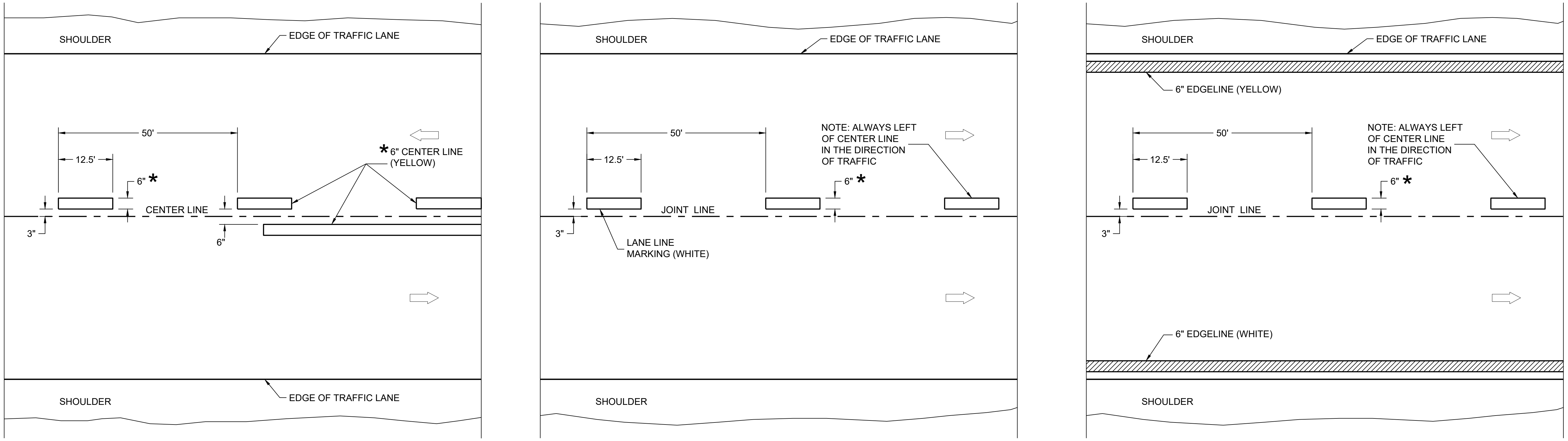
GENERAL NOTES

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

LEGEND

⇨ DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC **ONE WAY TRAFFIC** **FREEWAYS AND EXPRESSWAYS**

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

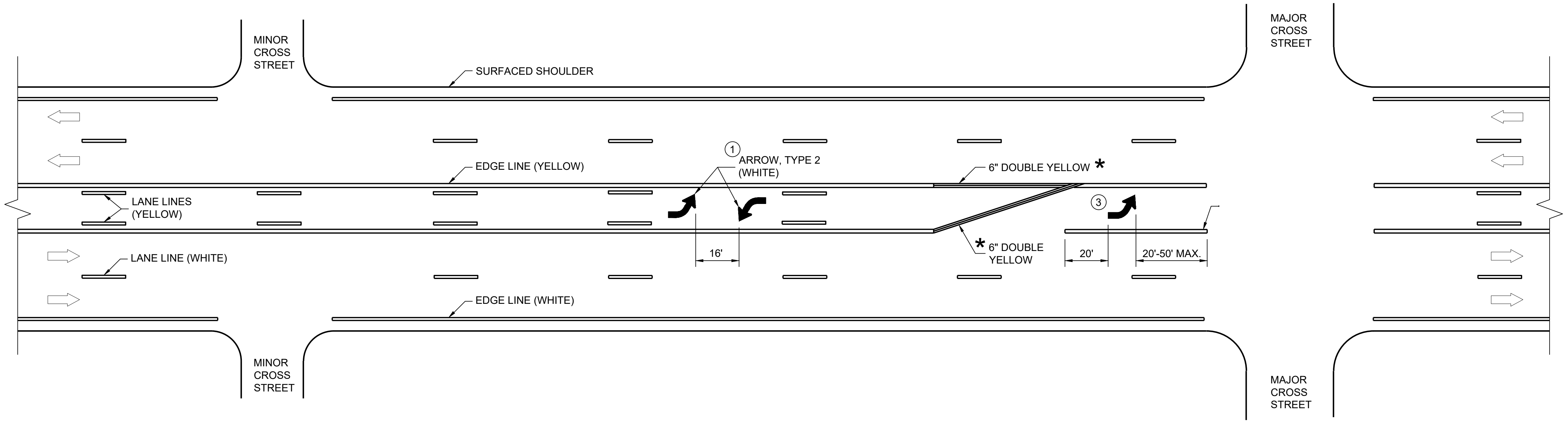
① A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

② 10" WHITE

③ TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

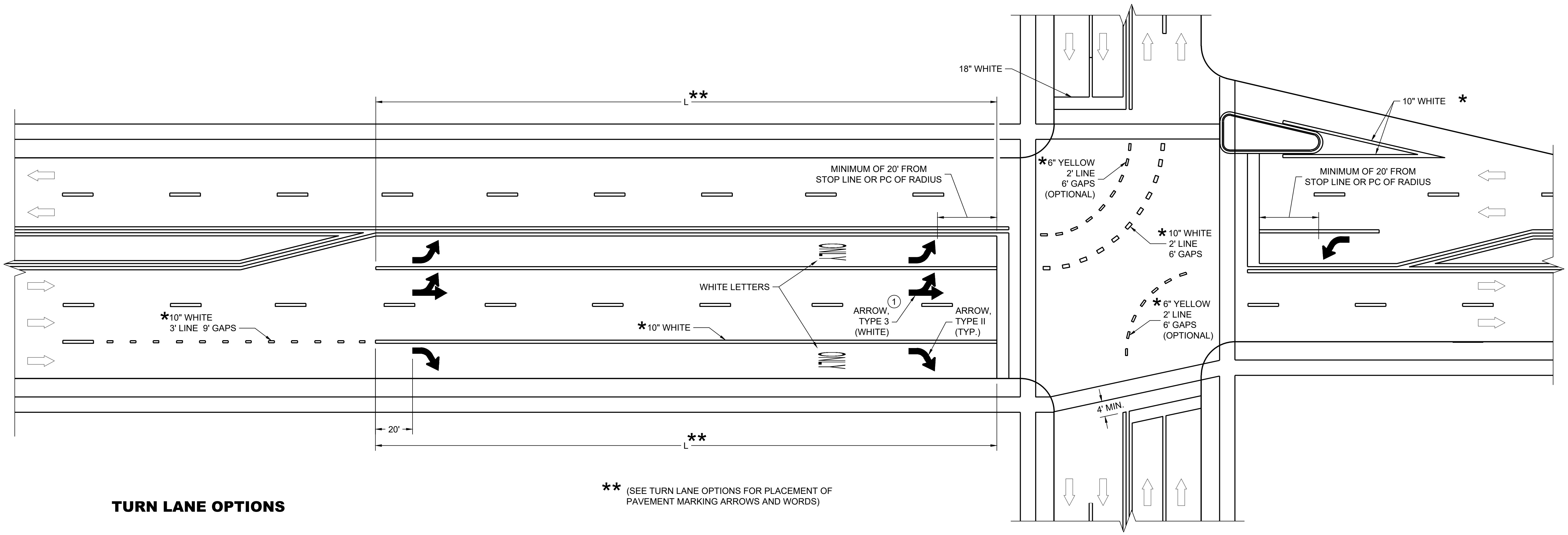
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

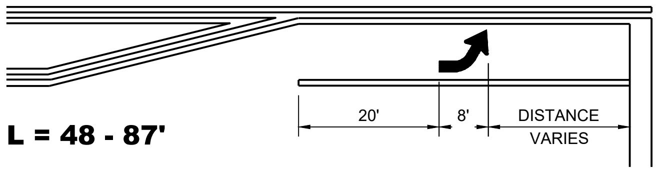
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



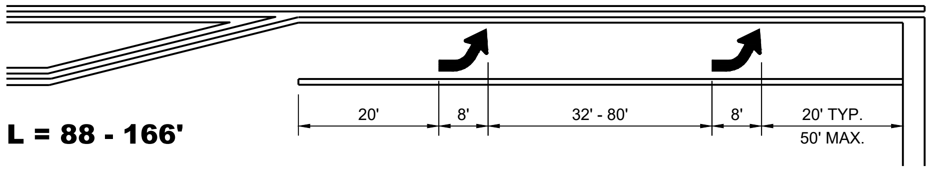
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

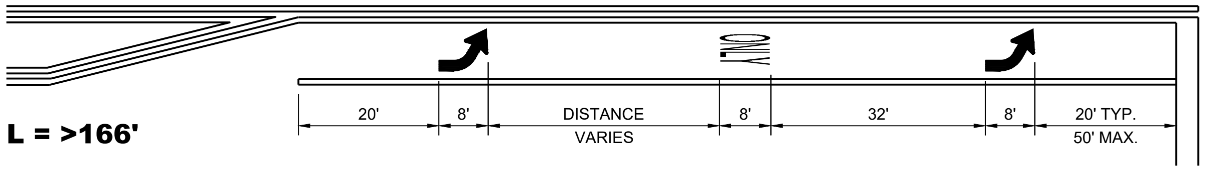
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

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

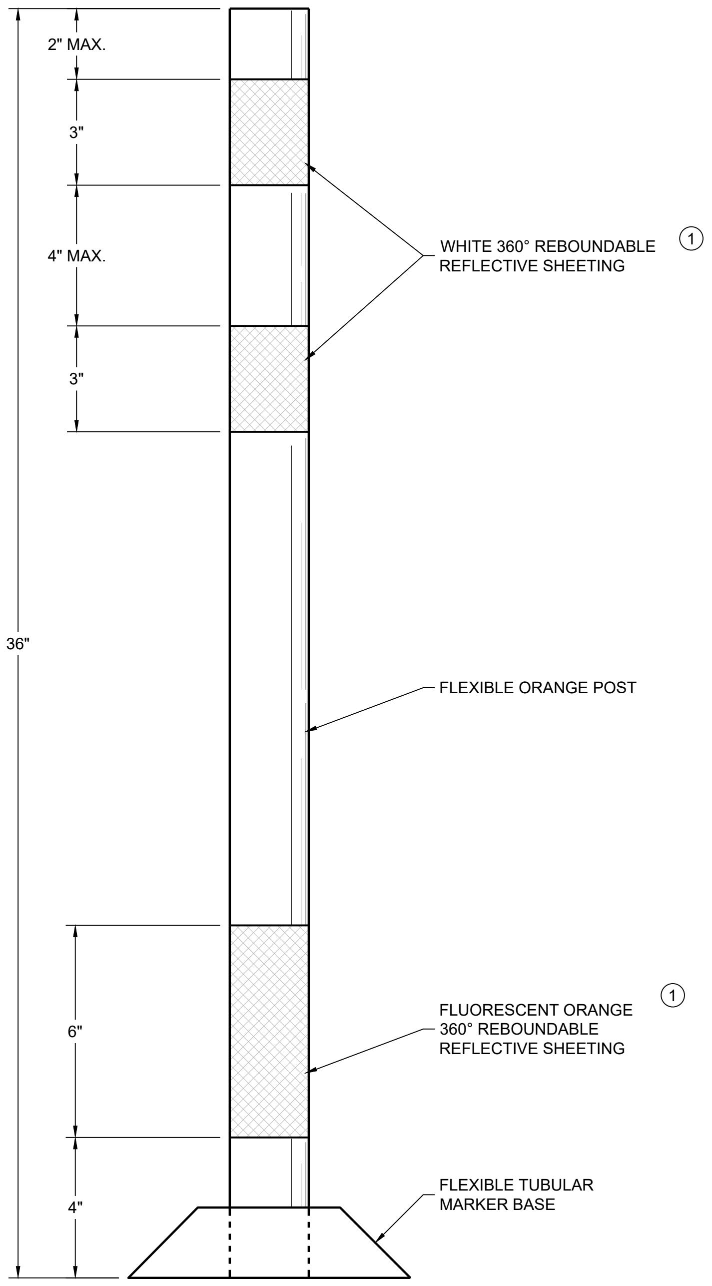
⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

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

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

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

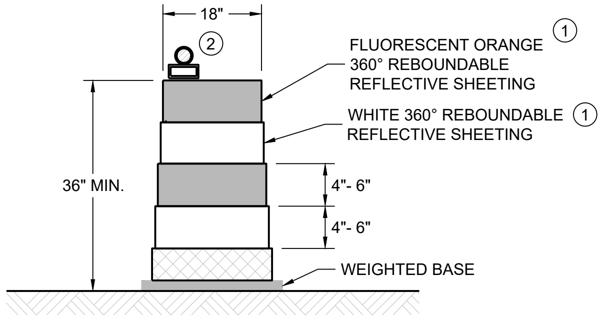
CHANNELIZING DEVICES
FLEXIBLE TUBULAR
MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

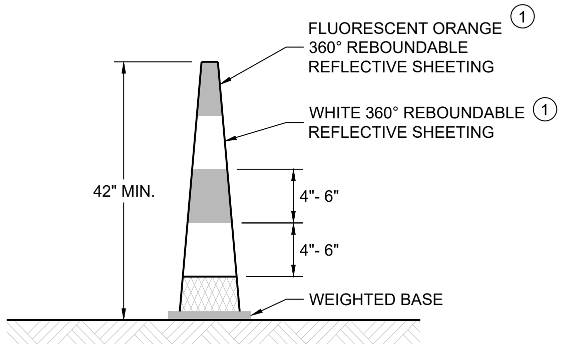
① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

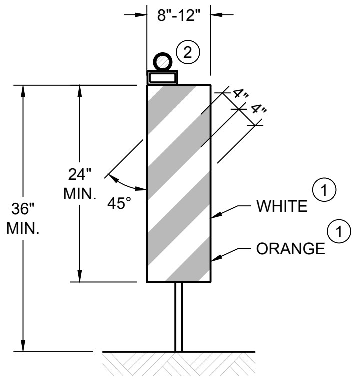
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

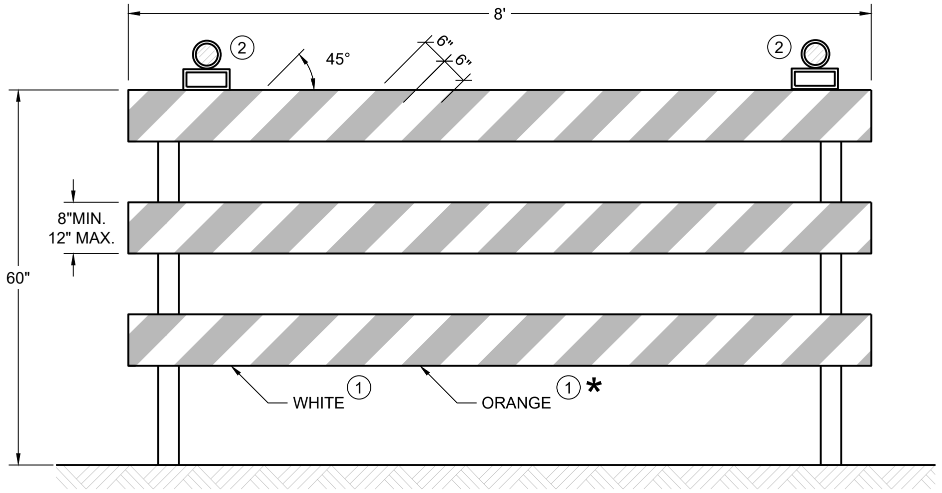
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



VERTICAL PANEL

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

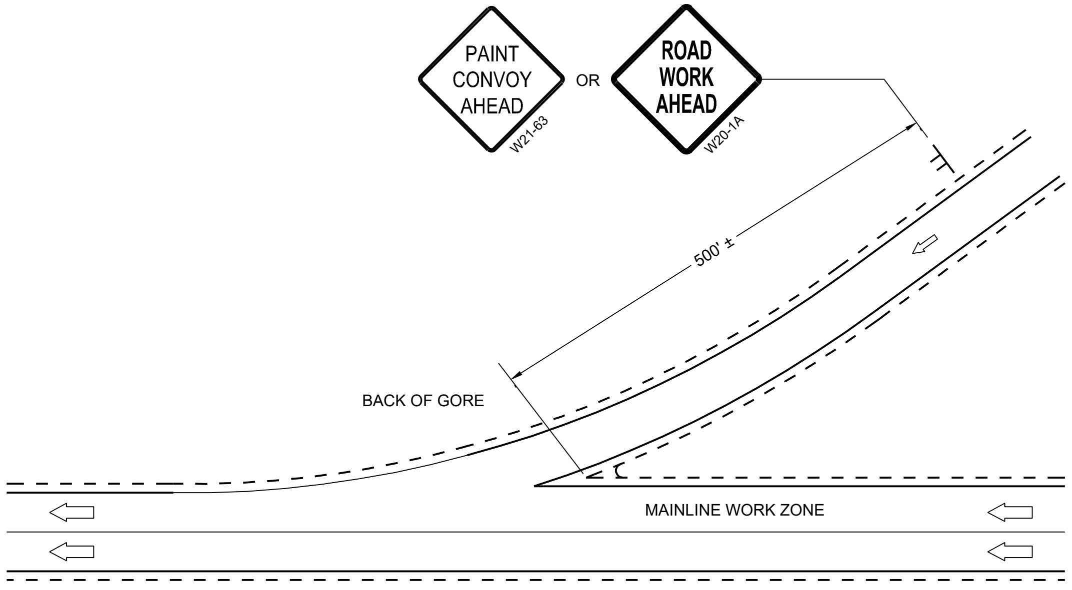
CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2026
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

LEGEND

V1 MARKING VEHICLE
V2 SHADOW VEHICLE
V3 TRAIL VEHICLE
TRUCK MOUNTED ATTENUATOR (TMA)
├ SIGN ON TEMPORARY SUPPORT
⇨ DIRECTION OF TRAFFIC
ARROW PANEL (CAUTION)



GENERAL NOTES

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

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

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

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

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

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

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

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

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

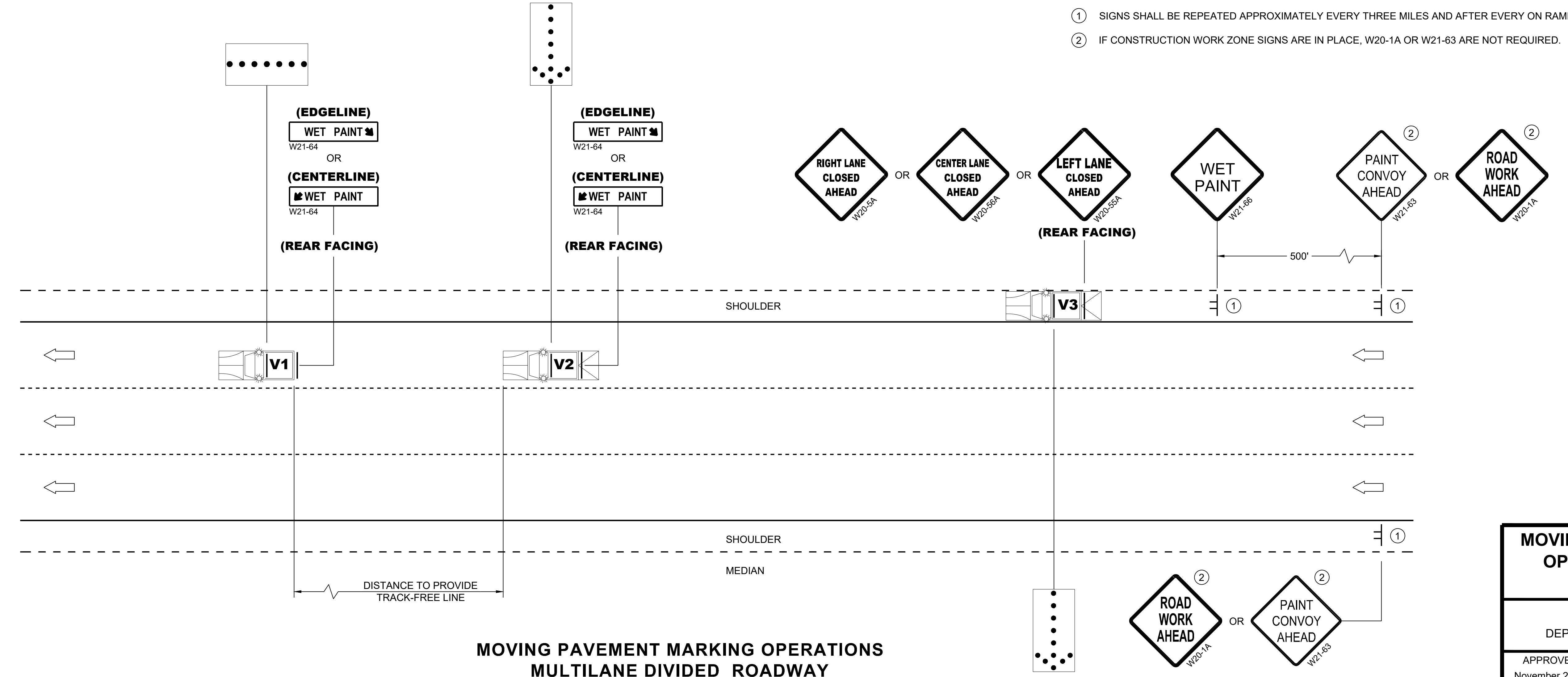
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

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

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

① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

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



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 /S/ Andrew Heidtke
DATE STATE ELECTRICAL ENGINEER
FHWA

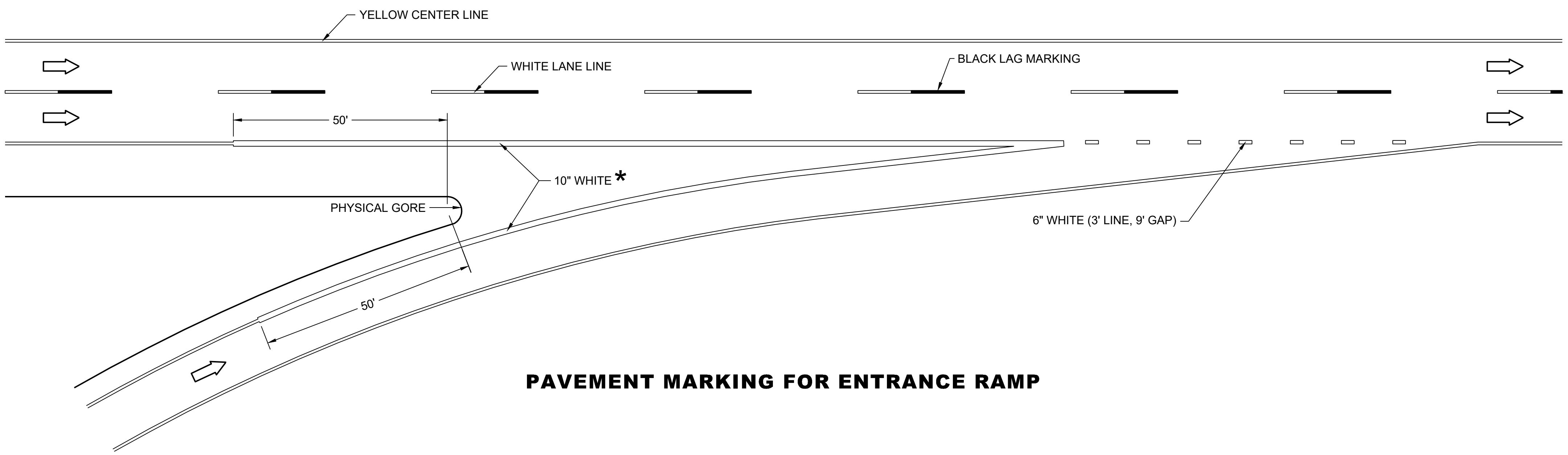
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

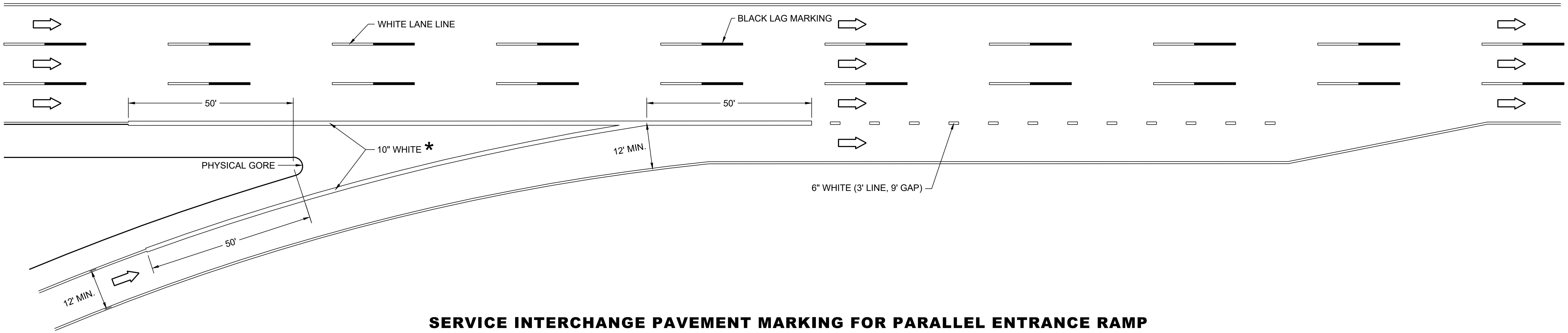
LEGEND

⇨ DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PAVEMENT MARKING FOR ENTRANCE RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

PAVEMENT MARKING, ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

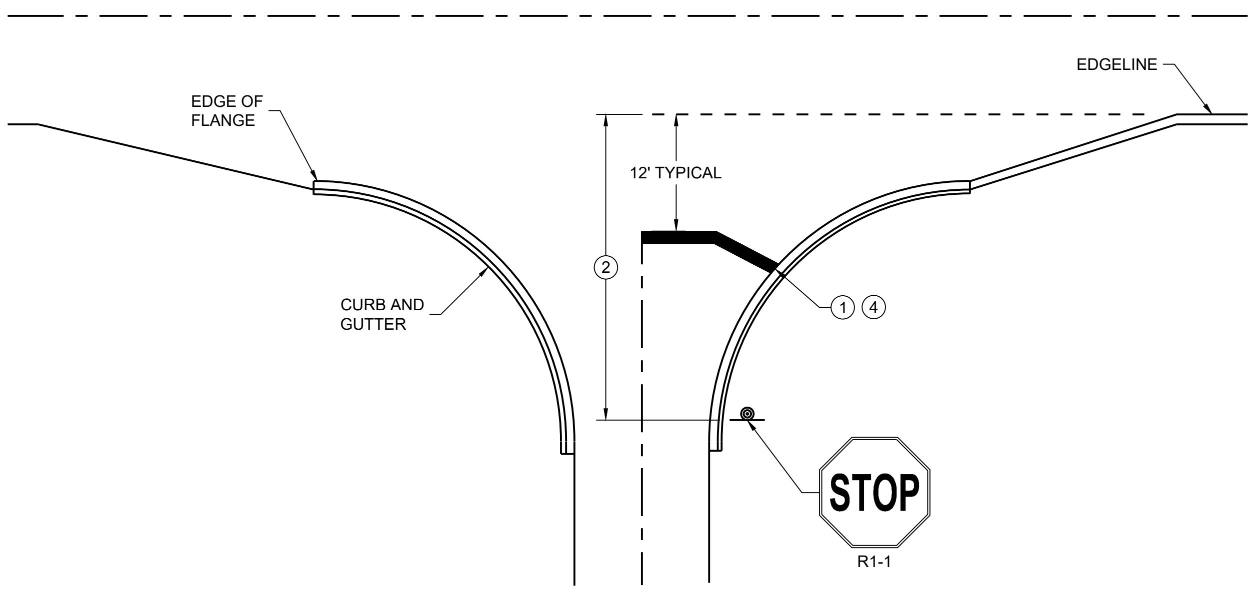
② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.

③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.

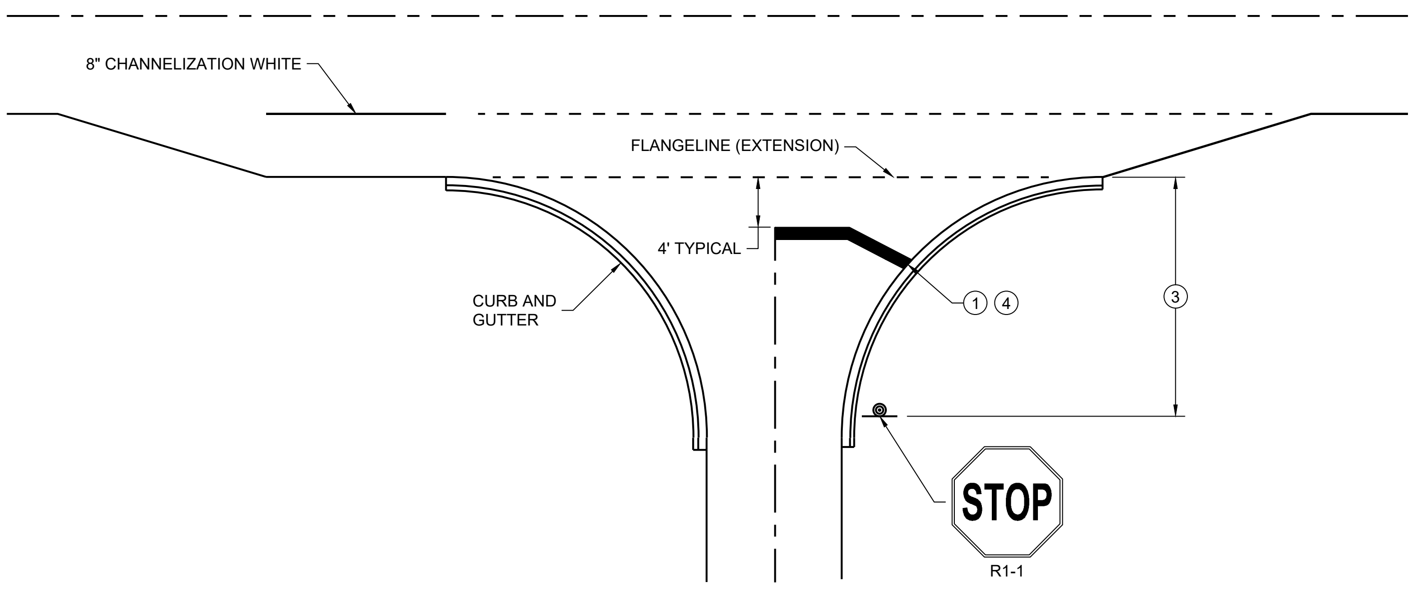
④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).

⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.

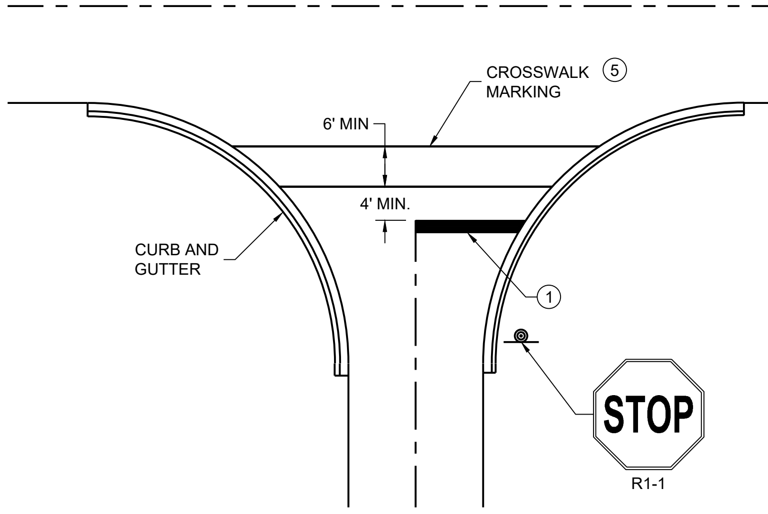
⑥ POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



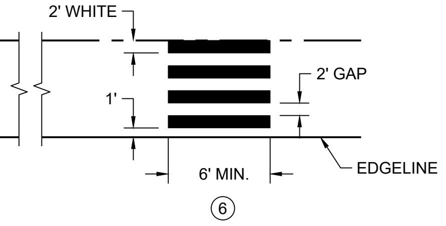
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



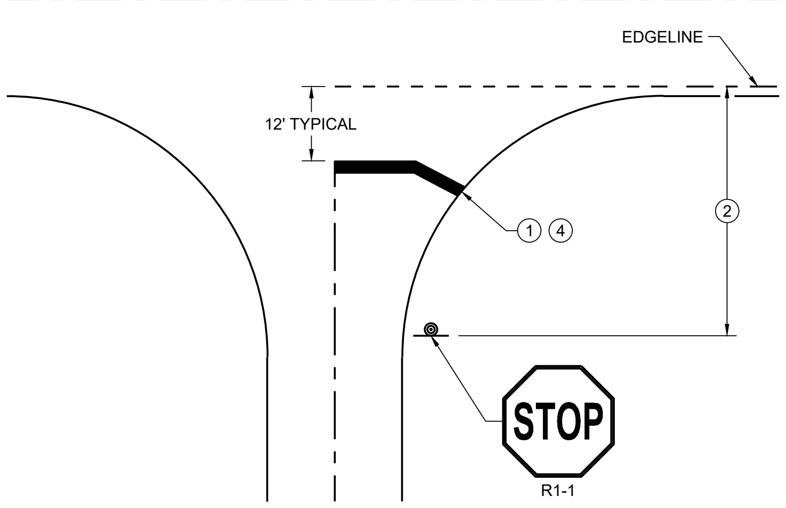
TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR
SIDE ROADS WITH CROSSWALK MARKING



TYPICAL PAVEMENT MARKING
FOR MID-BLOCK CROSSWALK ⑤



TYPICAL STOP LINE PAVEMENT MARKING
WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE
/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

GENERAL NOTES

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

① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.

④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

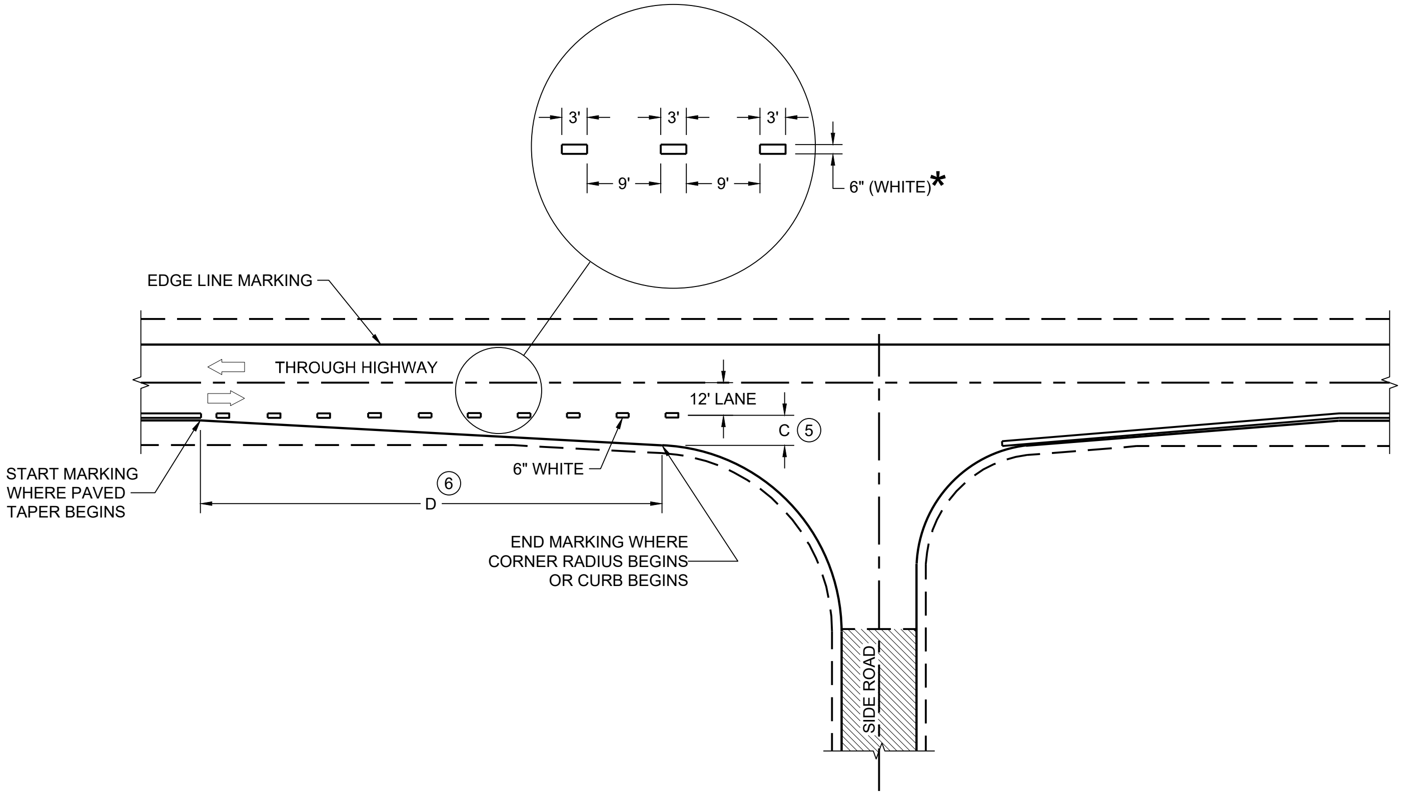
⑤ WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.

⑥ WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

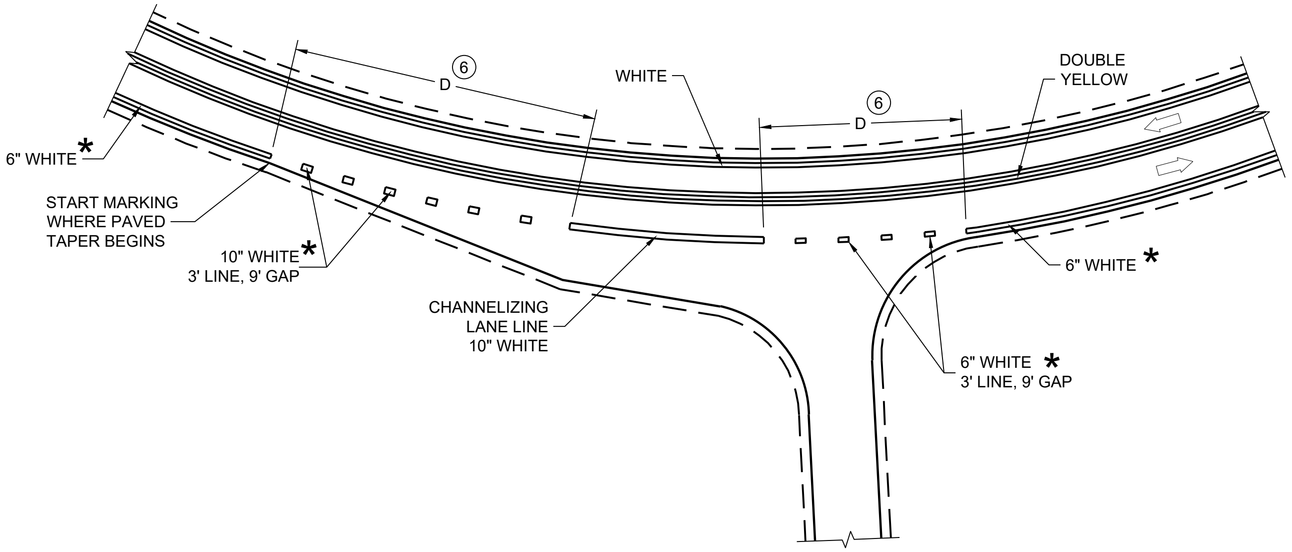
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

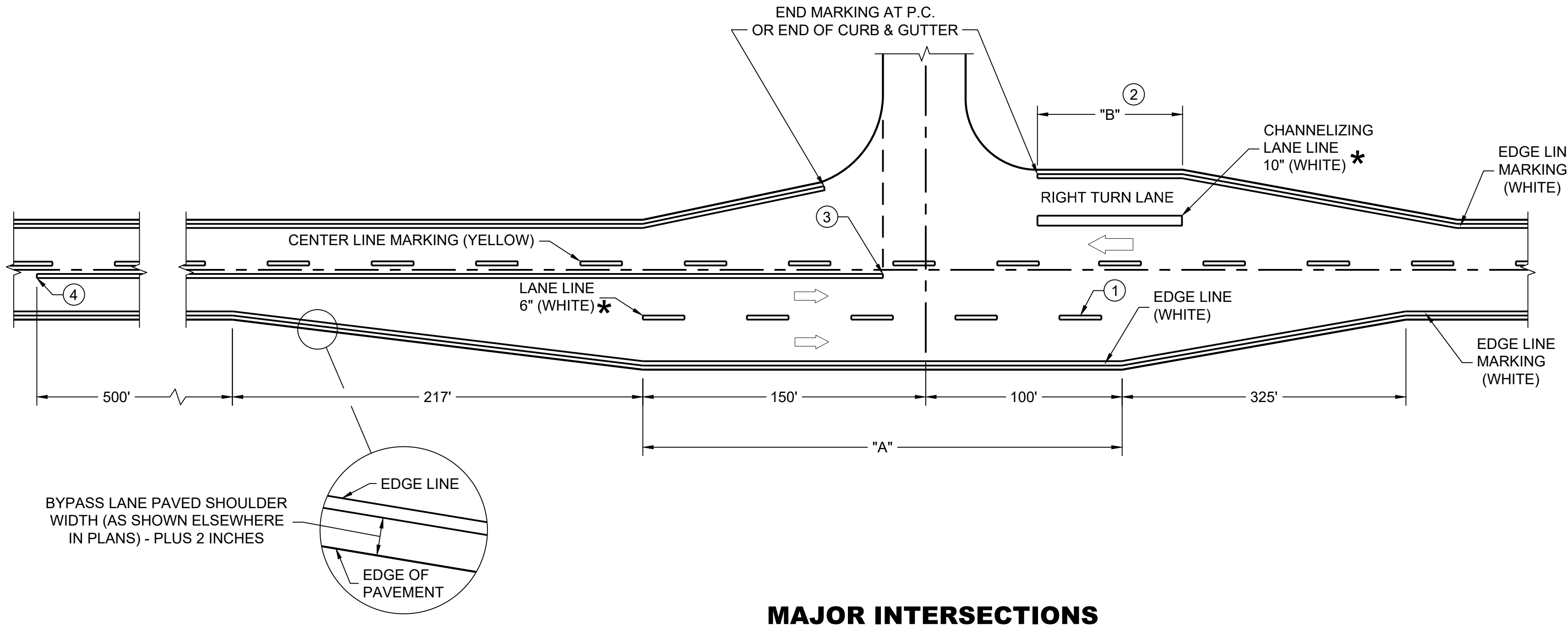
⇨ DIRECTION OF TRAVEL



MINOR INTERSECTION



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- ⊚ SIGN ON PERMANENT SUPPORT
- ⊙ DELINEATOR, FLEXIBLE/TUBULAR MARKER
- ⇨ DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

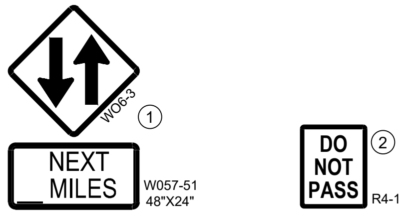
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50 FOOT SPACING.

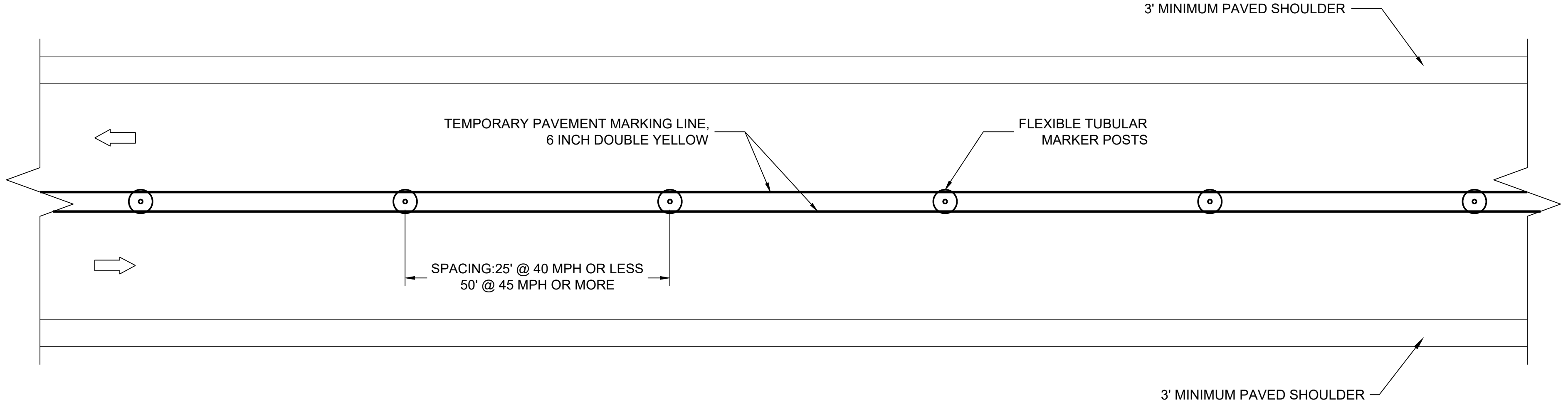
COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING LINE, 6 INCH DOUBLE YELLOW.

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



① THE WO6-3 AND WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND / OR 500 FEET BEYOND ANY SIDE ROAD. THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN THE SIGNS.

② CONVENTIONAL: 24" X 30"
FREEWAY AND EXPRESSWAY: 36" X 48"



TWO LANE, TWO WAY OPERATION

**TRAFFIC CONTROL
TWO LANE TWO WAY
OPERATION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

LEGEND

◎ SIGN ON PERMANENT SUPPORT

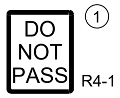
● TRAFFIC CONTROL DRUM

⊙ DELINEATOR FLEXIBLE / TUBULAR MARKER

⊢ TEMPORARY DELINEATOR (STEEL POST DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE RESPECTIVE EDGE LINE MARKING

⇨ DIRECTION OF TRAFFIC

×-×-× REMOVE PAVEMENT MARKINGS



INSTALL THE R4-1 SIGN 1000 FEET BEYOND THE WO6-3 SIGN WITH THE WO57-51 AND ALTERNATE THE SEQUENCE OF THESE SIGNS EVERY 1 MILE.

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

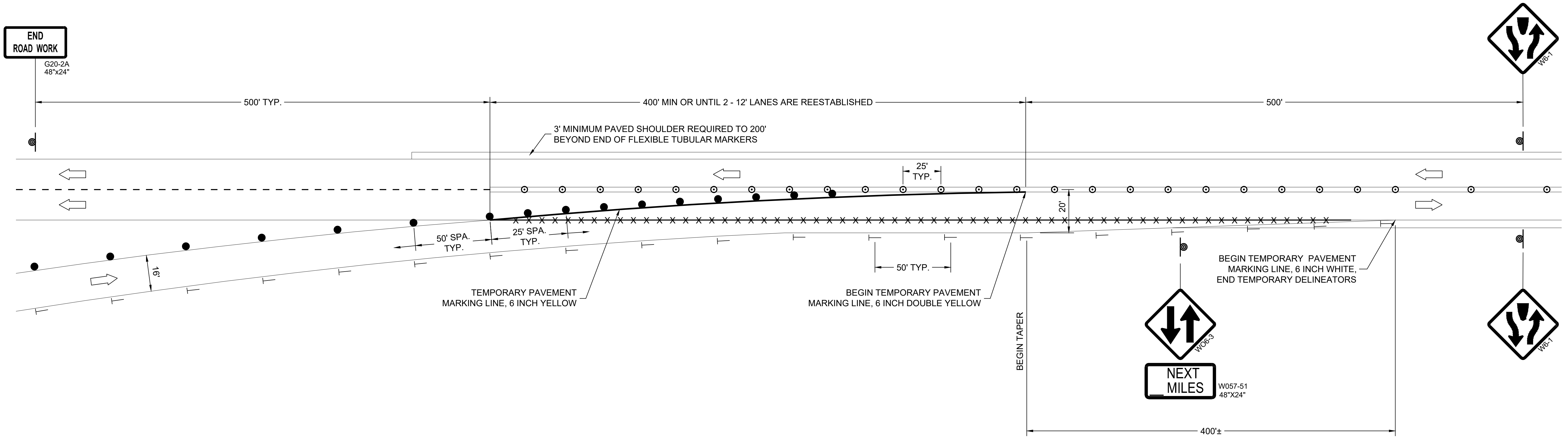
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

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

① CONVENTIONAL: 24" X 30"
FREEWAY AND EXPRESSWAY: 36" X 48"



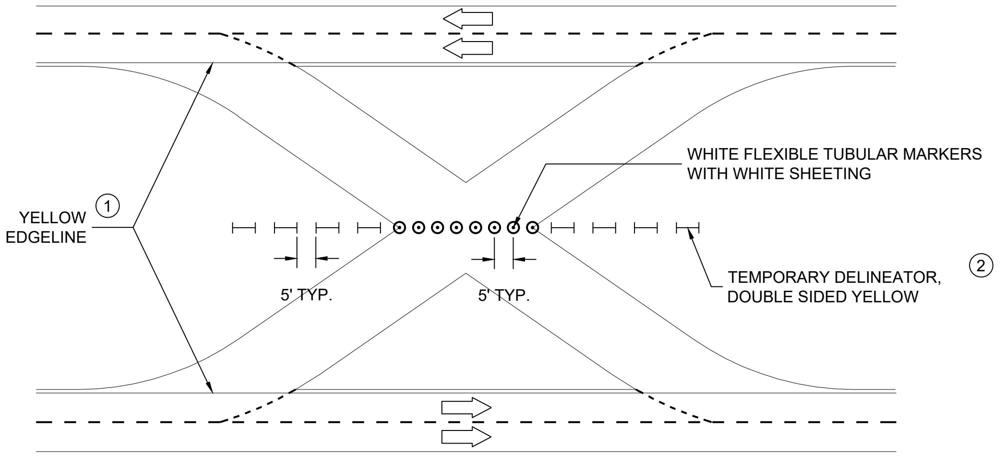
TRAFFIC CONTROL, SINGLE LANE CROSSOVER EXIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025
DATE
/S/ Andrew Heidtke
WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

LEGEND

◎	SIGN ON PERMANENT SUPPORT
●	TRAFFIC CONTROL DRUM
●	TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
⊙	DELINEATOR FLEXIBLE / TUBULAR MARKER
⊢	TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
⊢⊣	TEMPORARY DELINEATOR (DOUBLE SIDED)
☀	TYPE "A" WARNING LIGHT (FLASHING)
╪	TYPE III BARRICADE
╪	TYPE III BARRICADE WITH ATTACHED SIGN
⇨	DIRECTION OF TRAFFIC
✕✕✕	REMOVE PAVEMENT MARKINGS
▨	WORK AREA



TRAFFIC CONTROL FOR CROSSOVER THAT IS NOT IN USE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.

FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.

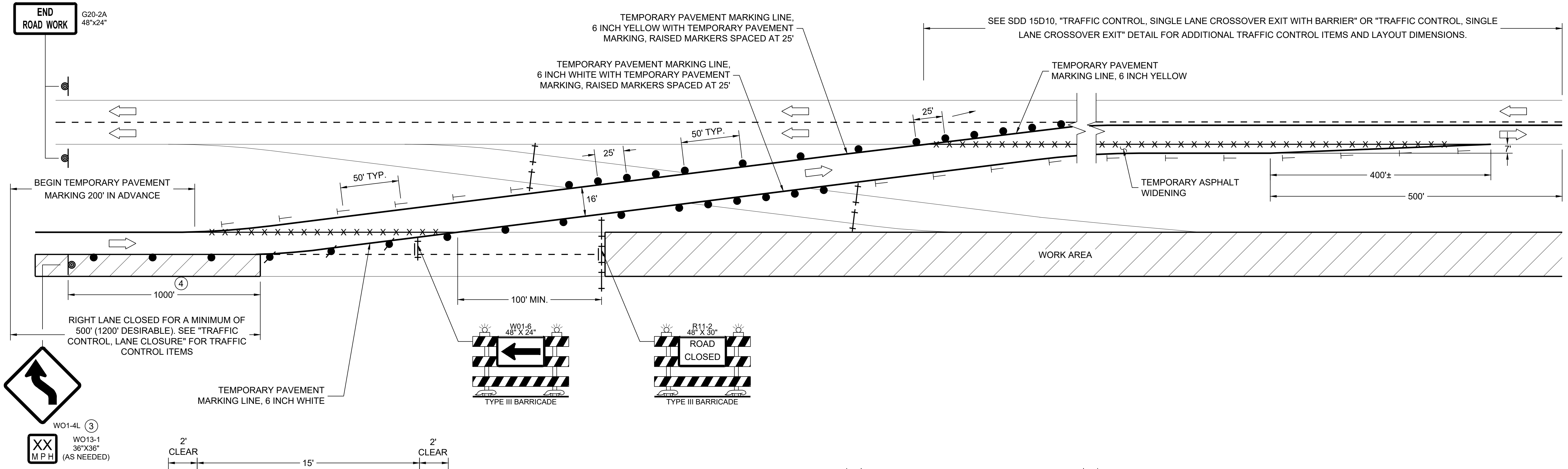
FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.

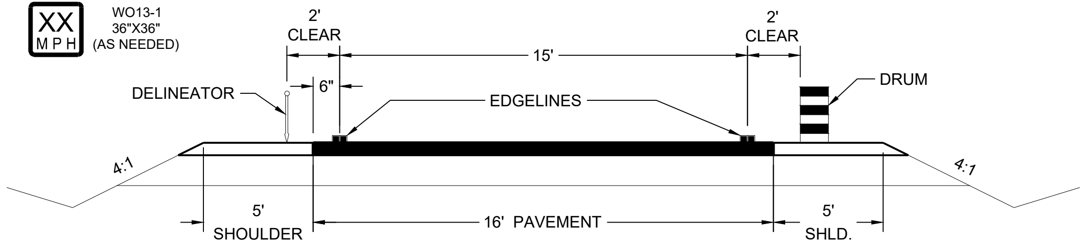
① FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.

② FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.

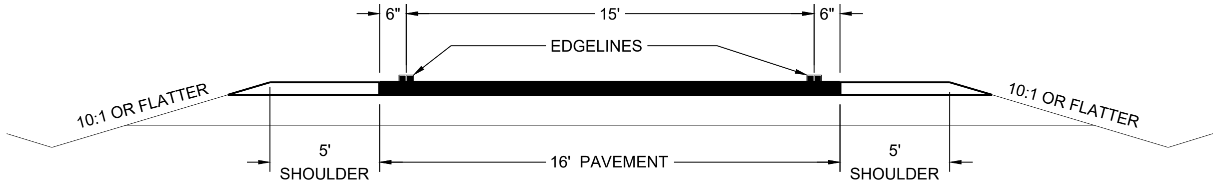
③ USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

④ IF BEGINNING OF LANE SHIFT IS 1200' OR LESS FROM THE END OF FROM THE END OF THE LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200' AFTER THE END OF THE LANE CLOSURE TAPER.





TYPICAL TEMPORARY CROSSOVER ROADWAY DIMENSIONS
(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)



TYPICAL CROSSOVER TO REMAIN IN PLACE ROADWAY DIMENSIONS
(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)

TRAFFIC CONTROL,
SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

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

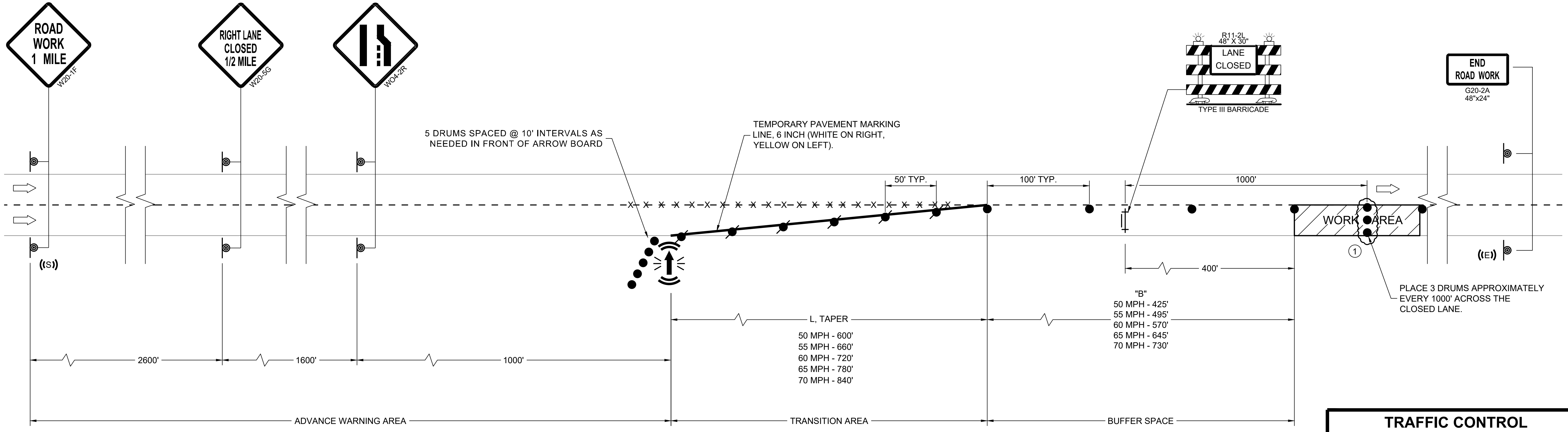
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

① DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

LEGEND

◎	SIGN ON PERMANENT SUPPORT
●	TRAFFIC CONTROL DRUM
●	TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
‡	TYPE III BARRICADE WITH ATTACHED SIGN
☼	TYPE "A" WARNING LIGHT (FLASHING)
-✕-✕-✕-	REMOVING PAVEMENT MARKINGS
⇨	DIRECTION OF TRAFFIC
▨	WORK AREA
((➡))	CONNECTED ARROW BOARD
((S))	WZ START LOCATION MARKER
((E))	WZ END LOCATION MARKER



TRAFFIC CONTROL
LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 /S/ Andrew Heidtke
DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

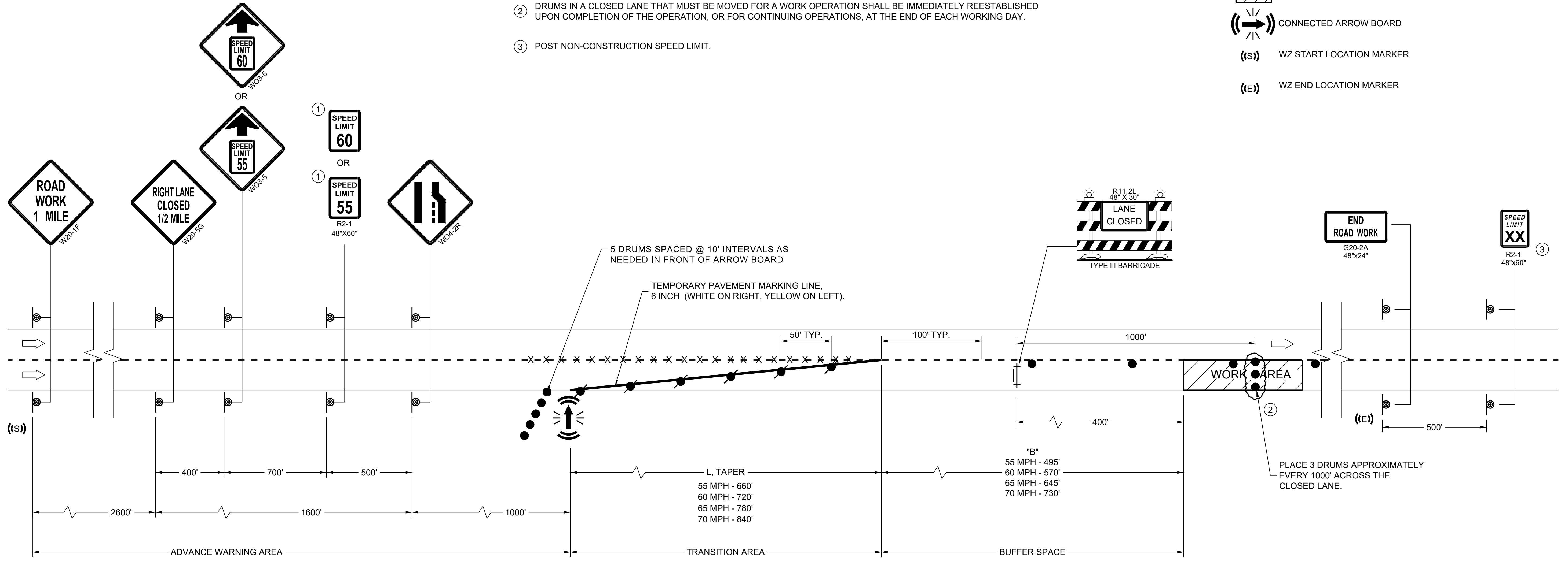
① A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES.

② DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

③ POST NON-CONSTRUCTION SPEED LIMIT.

LEGEND

◎	SIGN ON PERMANENT SUPPORT
●	TRAFFIC CONTROL DRUM
●	TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
‡	TYPE III BARRICADE WITH ATTACHED SIGN
☼	TYPE "A" WARNING LIGHT (FLASHING)
-X-X-X-	REMOVING PAVEMENT MARKINGS
⇨	DIRECTION OF TRAFFIC
▨	WORK AREA
((→))	CONNECTED ARROW BOARD
((S))	WZ START LOCATION MARKER
((E))	WZ END LOCATION MARKER



TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 /S/ Andrew Heidtke
DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

LEGEND

⊢◎	SIGN ON PERMANENT SUPPORT
⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM
●	TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
X- X- X- X-	REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
╫	TYPE III BARRICADE WITH ATTACHED SIGN
◇ ◇	FLAGS, 16" X 16" MIN., ORANGE
⇨	DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

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

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

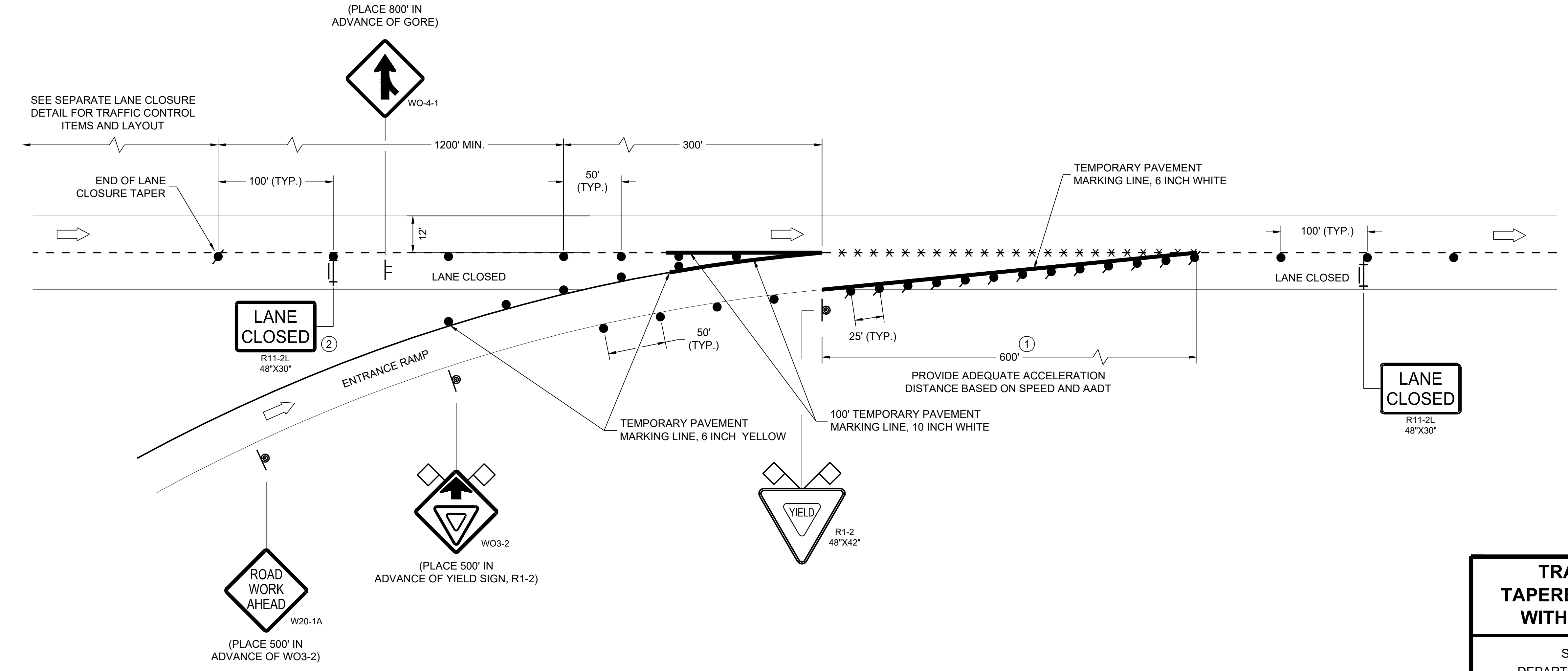
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

① CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.

② IF LOCATED AFTER INITIAL LANE CLOSURE BARRICADE AND "LANE CLOSED" SIGN, USE 3 DRUMS IN PLACE OF BARRICADE AND SIGN.



TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE
/S/ Andrew Heidtke
<position>
FHWA

LEGEND

⊸	SIGN ON PERMANENT SUPPORT
⊢	SIGN ON TEMPORARY SUPPORT
●	TRAFFIC CONTROL DRUM
⊘	TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
‡	TYPE III BARRICADE WITH ATTACHED SIGN
◇ ◇	FLAGS, 16" X 16" MIN., ORANGE
⇨	DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

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

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

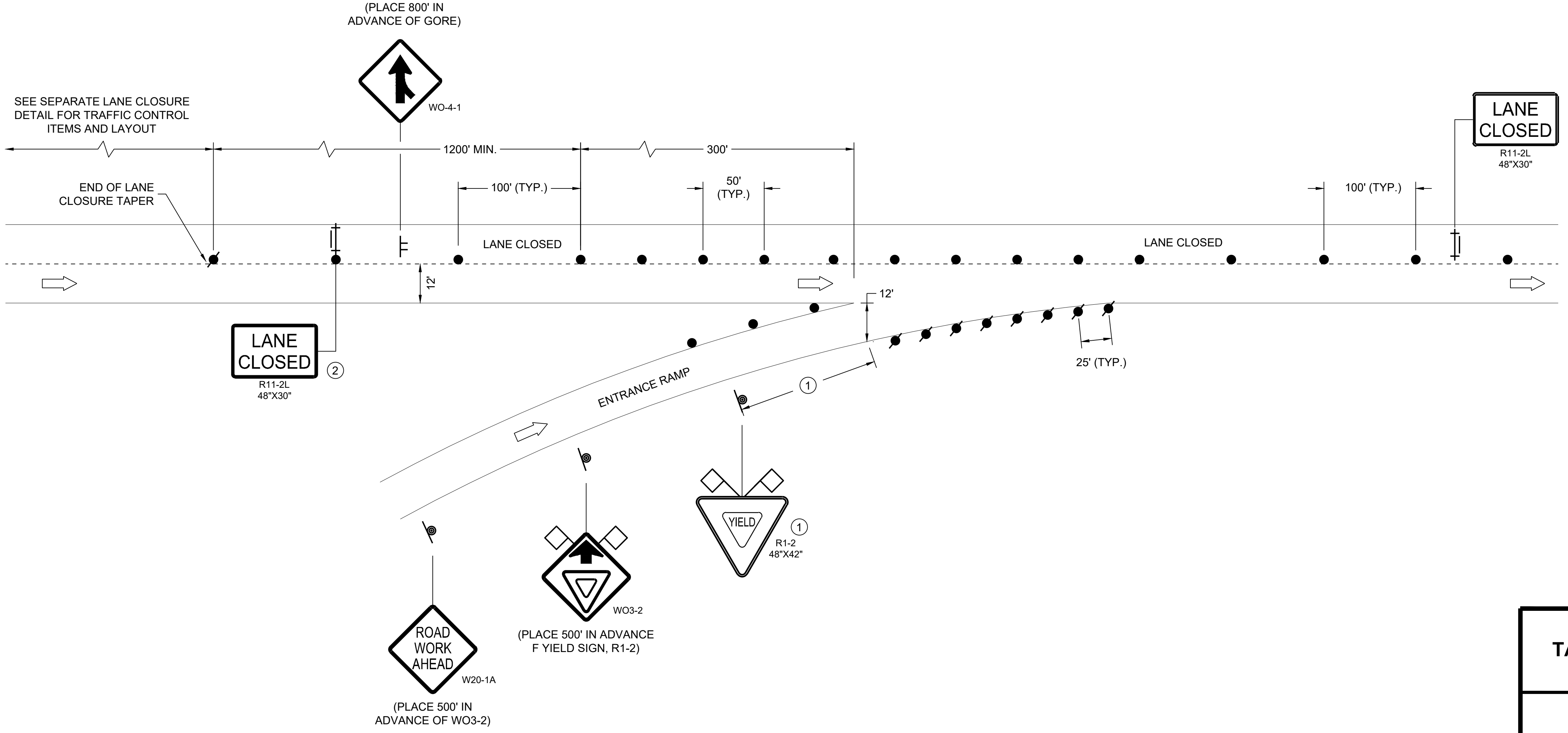
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

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

① PLACE YIELD SIGN TO PROVIDE ADEQUATE SIGHT DISTANCE AND ACCELERATION DISTANCE.

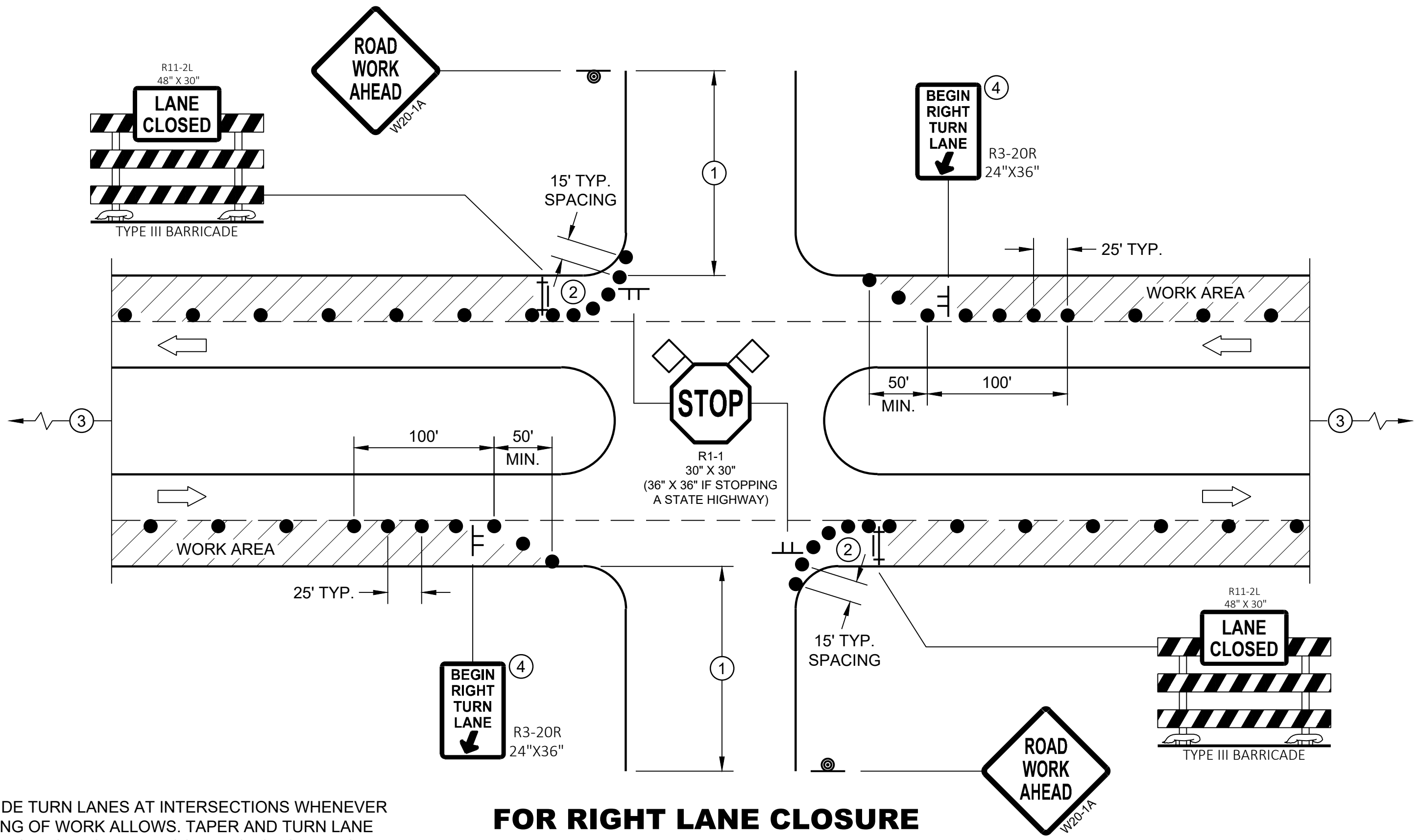
② IF LOCATED AFTER INITIAL LANE CLOSURE BARRICADE AND "LANE CLOSED" SIGN, USE 3 DRUMS IN PLACE OF BARRICADE AND SIGN.



TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE

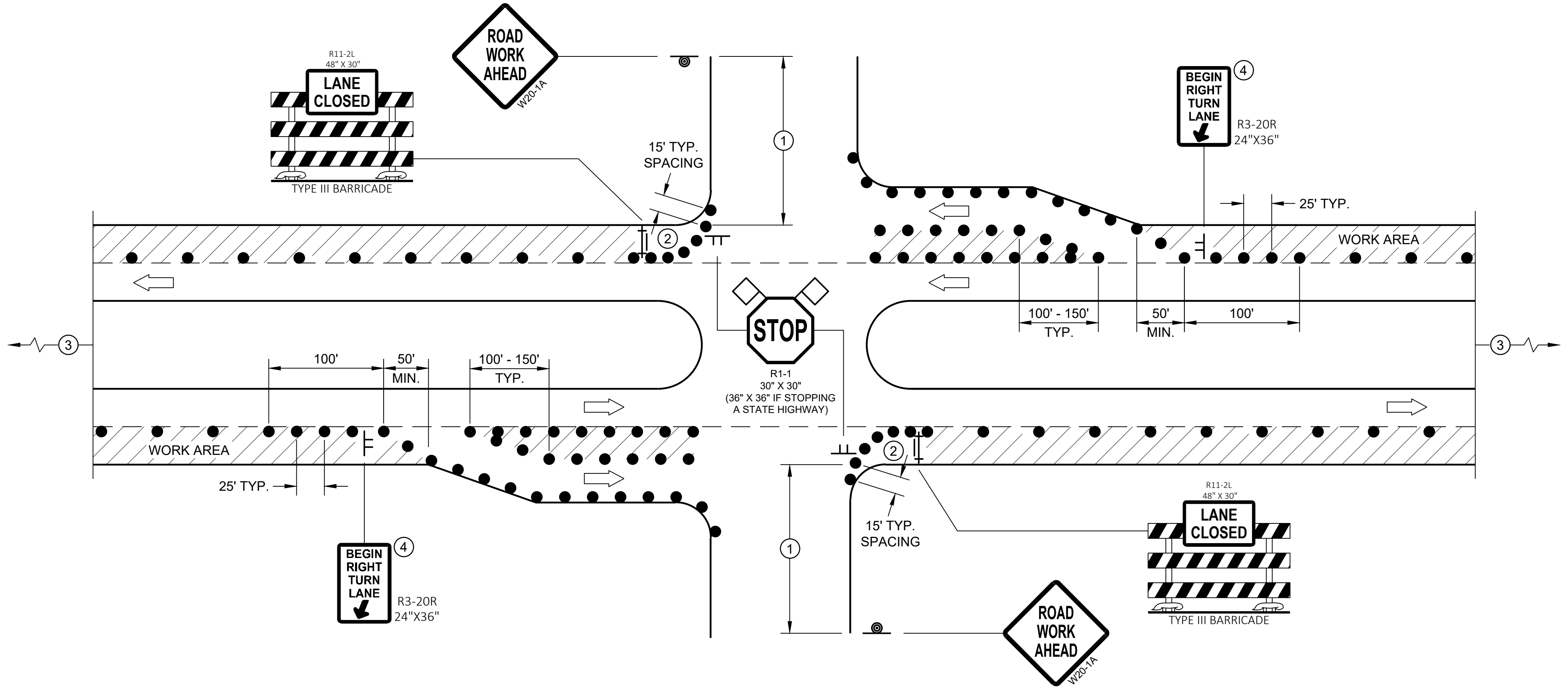
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA



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

FOR RIGHT LANE CLOSURE AT INTERSECTION



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

GENERAL NOTES

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

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

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

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

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

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

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

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

② ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

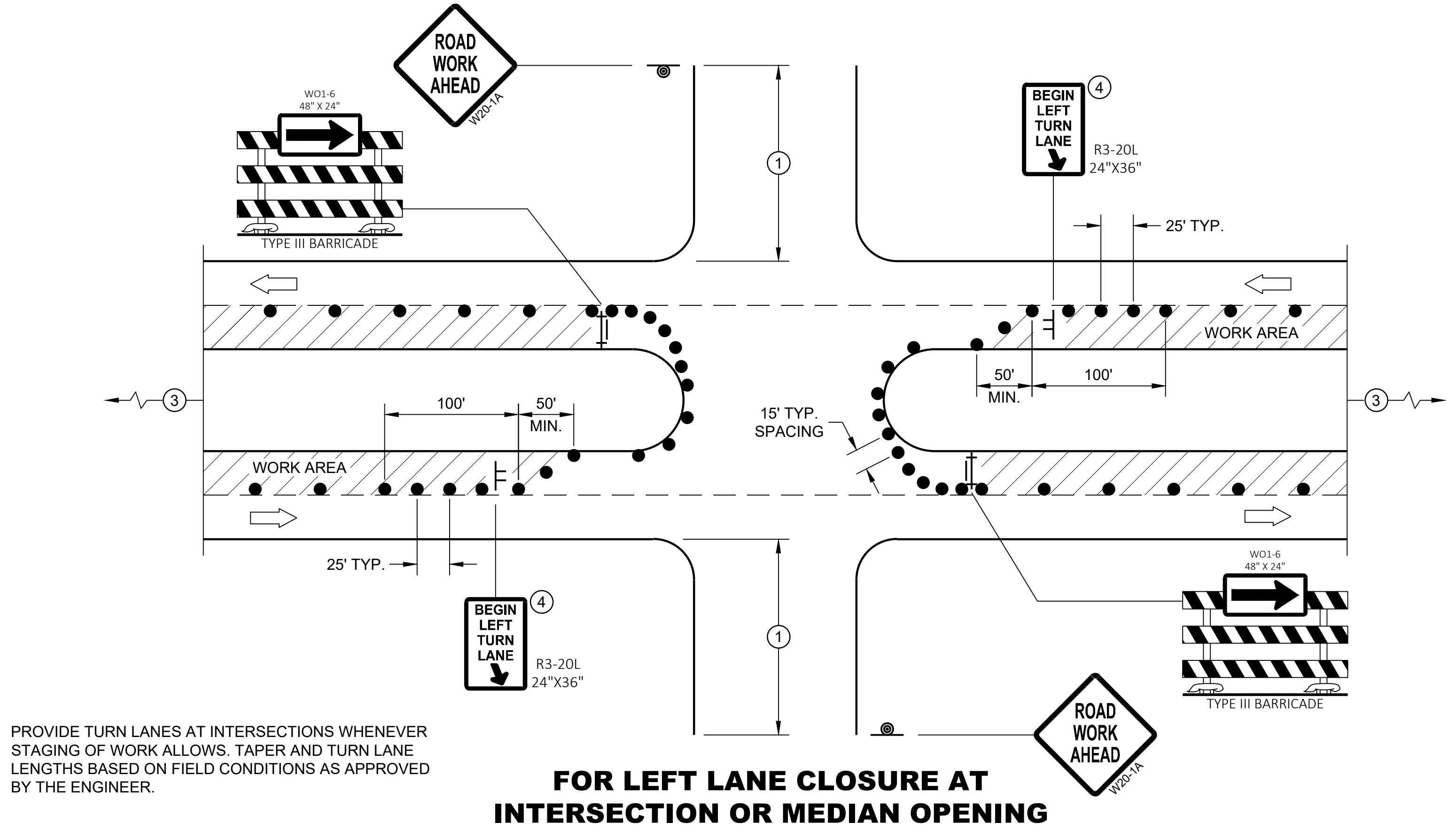
④ MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

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

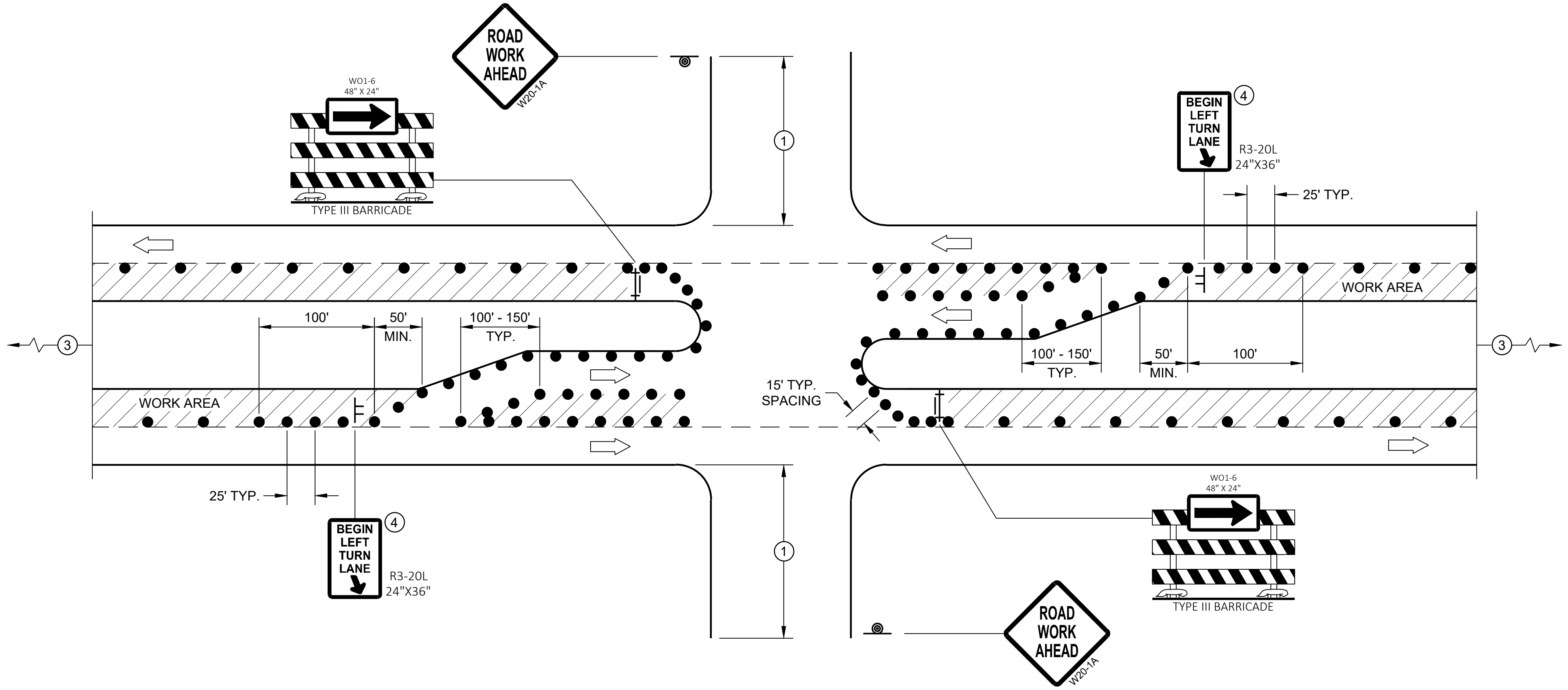
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATI



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

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

GENERAL NOTES

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

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

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

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

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

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

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

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

② ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

④ MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

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

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEE
FHWA

LEGEND

◎ SIGN ON PERMANENT SUPPORT

● TRAFFIC CONTROL DRUM

⇨ DIRECTION OF TRAFFIC

((➡)) CONNECTED ARROW BOARD

▨ WORK AREA

((S)) WZ START LOCATION MARKER

((E)) WZ END LOCATION MARKER

GENERAL NOTES

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

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

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

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

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

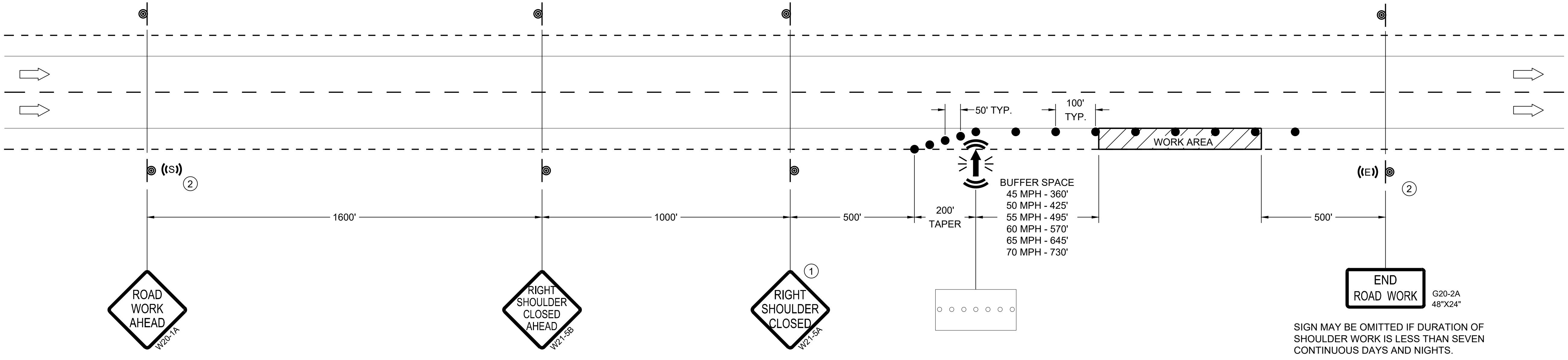
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

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

① FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR THE W21-5A SIGN MAY BE OMITTED.

② IF ALREADY PRESENT WITHIN PROJECT , DO NOT INCLUDE ADDITIONAL DEVICE.



SIGN MAY BE OMITTED IF DURATION OF SHOULDER WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

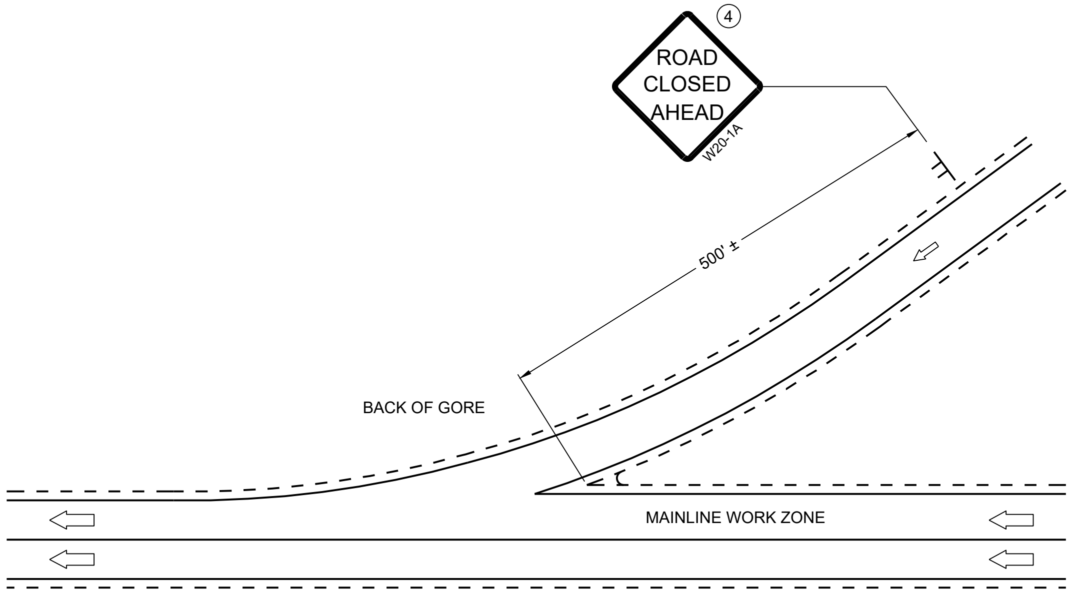
TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Noveber 2025
DATE
/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

LEGEND

V1	SHADOW VEHICLE 1
V2	SHADOW VEHICLE 2
V3	ADVANCE WARNING TRUCK
●	TRAFFIC CONTROL DRUM
◸	TRUCK MOUNTED ATTENUATOR (TMA)
⊦	SIGN ON TEMPORARY SUPPORT
⇨	DIRECTION OF TRAFFIC
• • • • • • ➤	FLASHING ARROW PANEL (MERGE)
● ● ● ● ●	FLASHING ARROW PANEL (CAUTION)
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
▨	WORK AREA



GENERAL NOTES

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

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

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

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

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

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

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

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

① DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

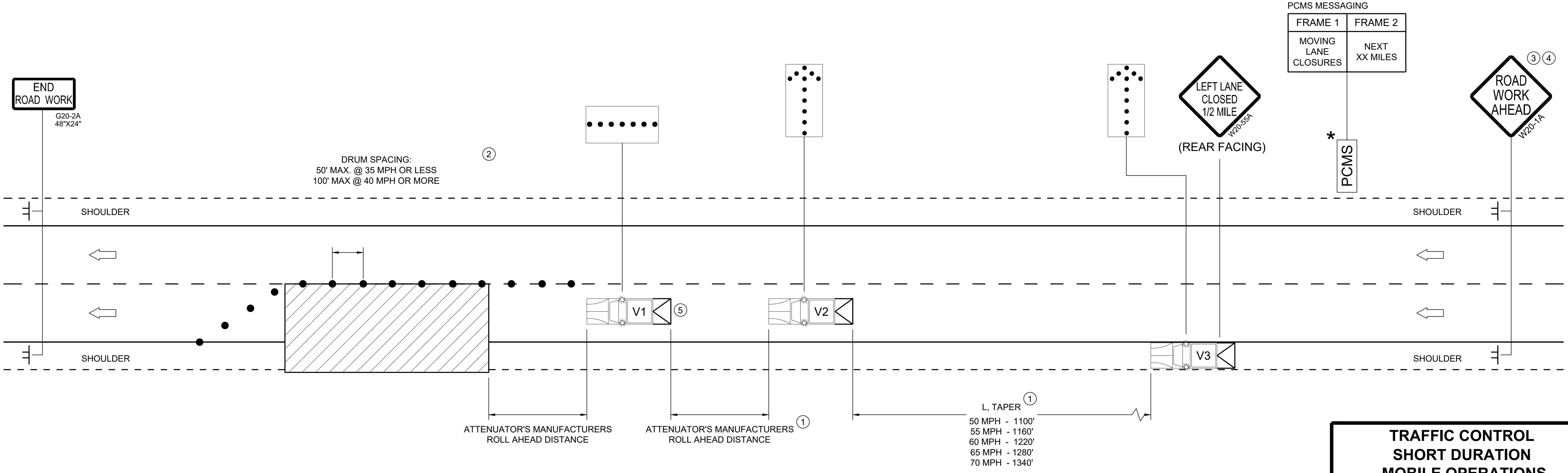
② DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.

③ WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.

④ SIGN NOT REQUIRED IF MOVING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

⑤ SHADOW VEHICLE 1 (V1) IS OPTIONAL

* PCMS OPTIONAL

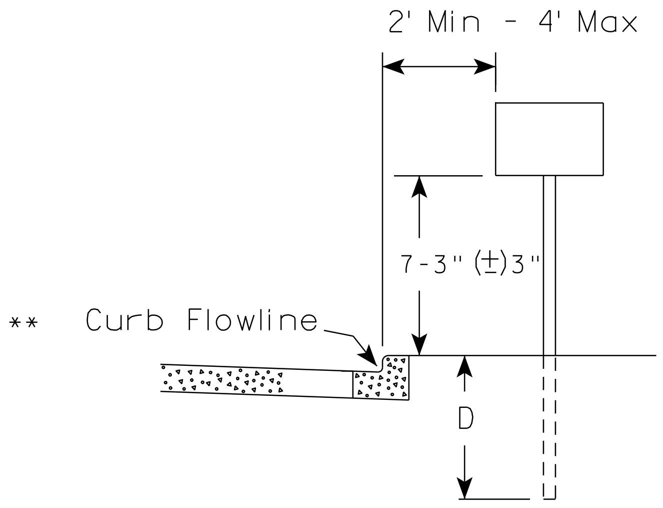


TRAFFIC CONTROL
SHORT DURATION
MOBILE OPERATIONS

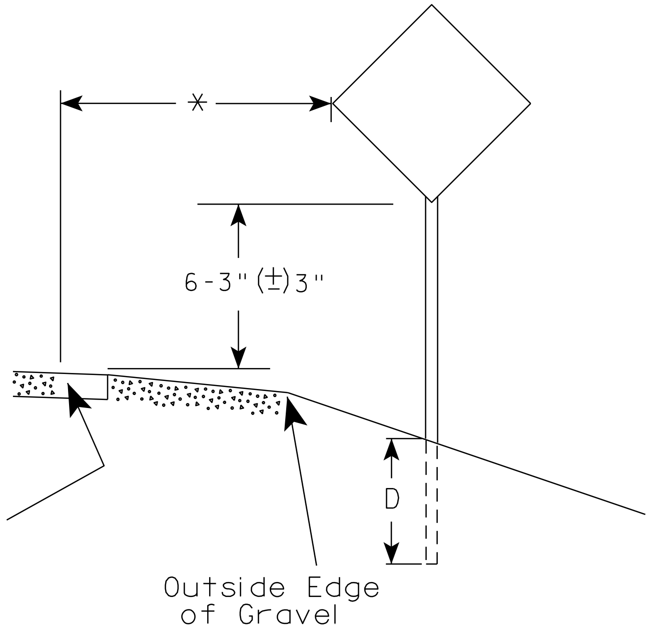
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

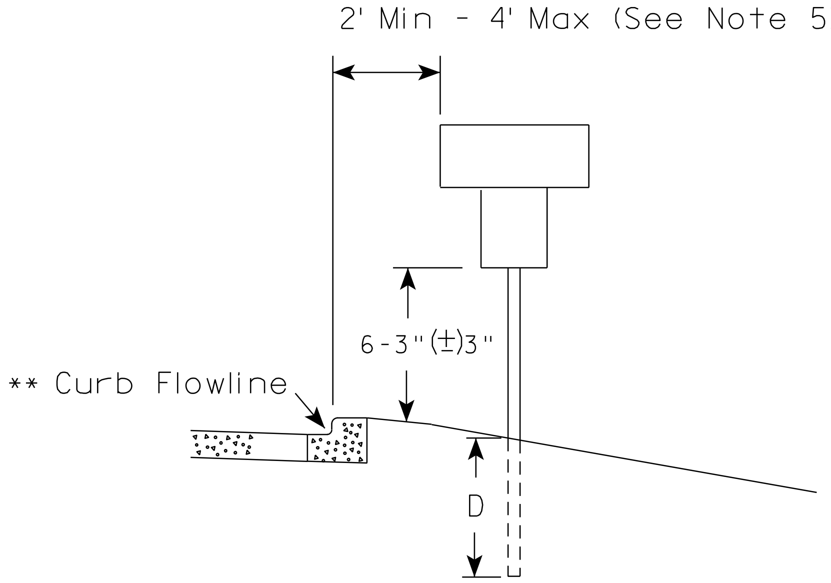
APPROVED
November 2025
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

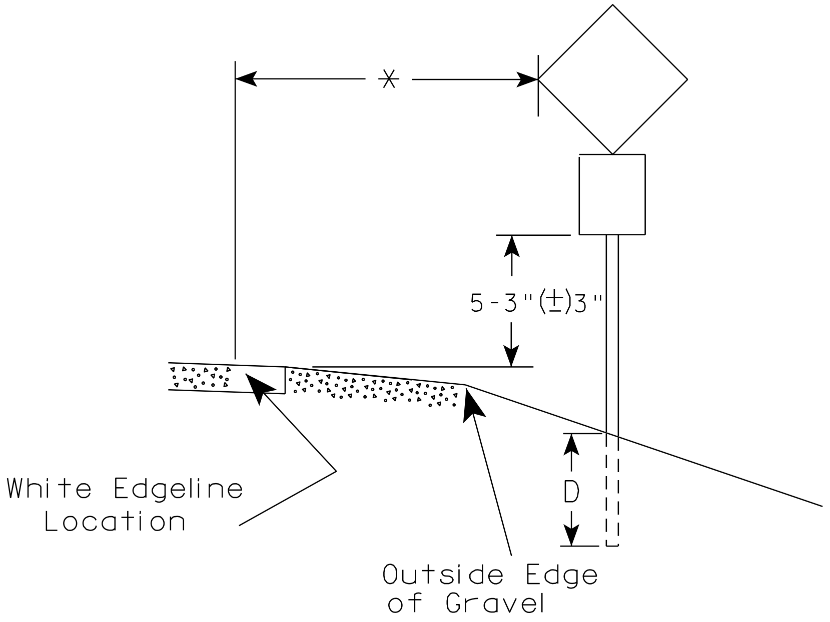
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

POST EMBEDMENT DEPTH

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

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

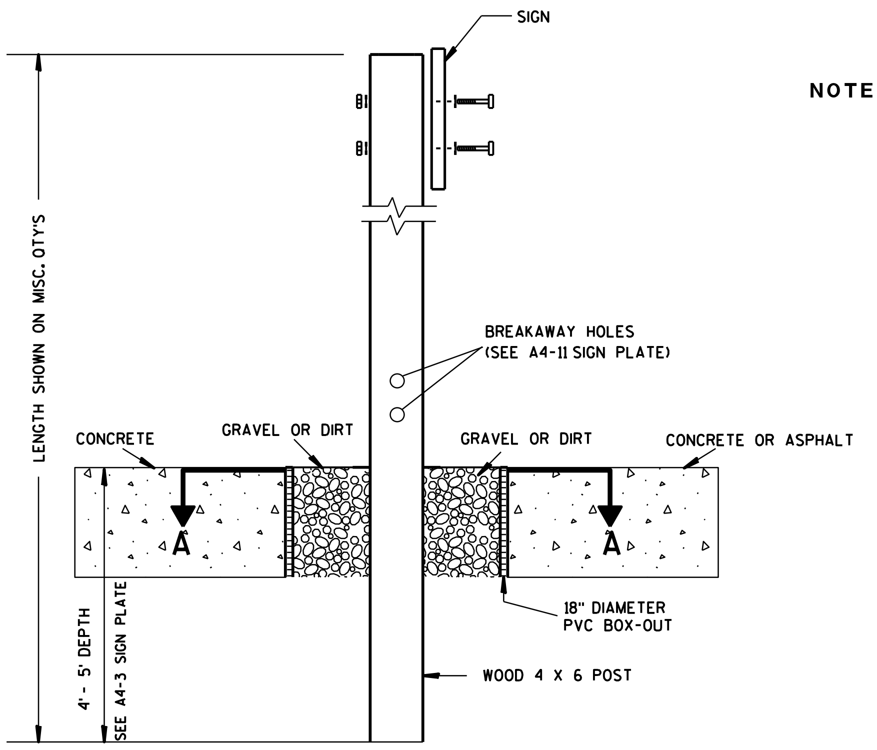
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

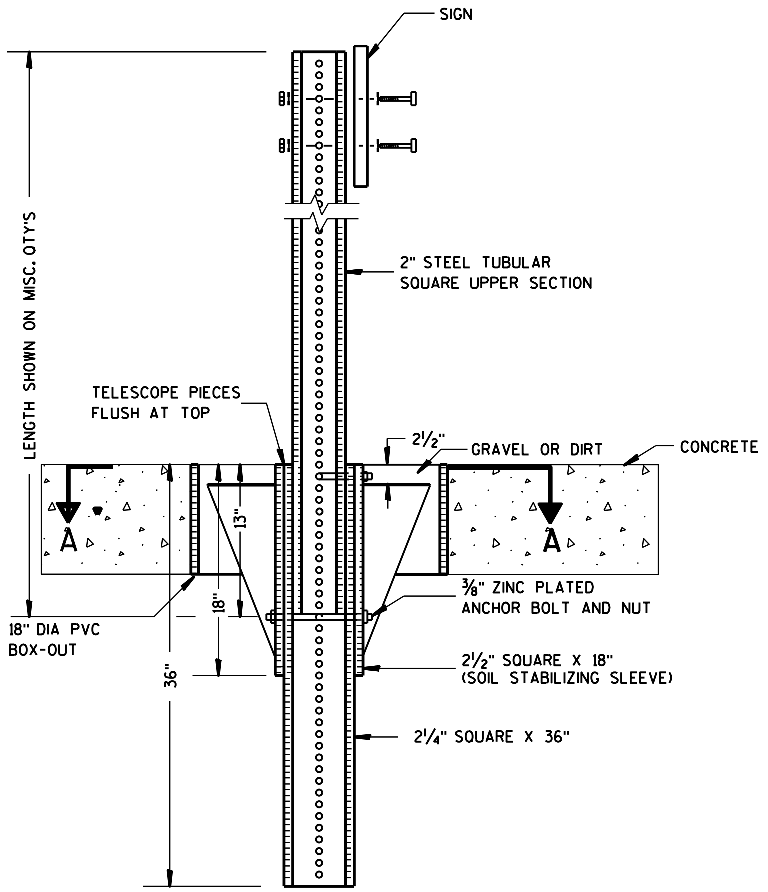
DATE 12/6/23 PLATE NO. A4-3.23



ELEVATION VIEW

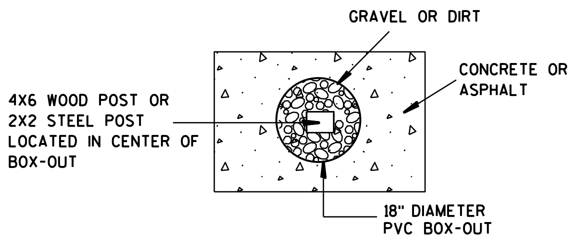
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

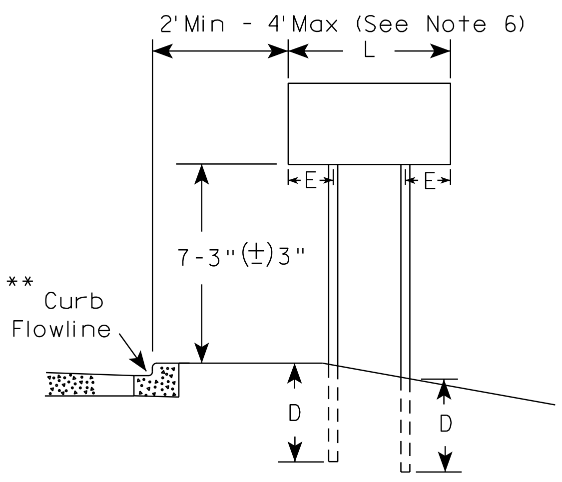
SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

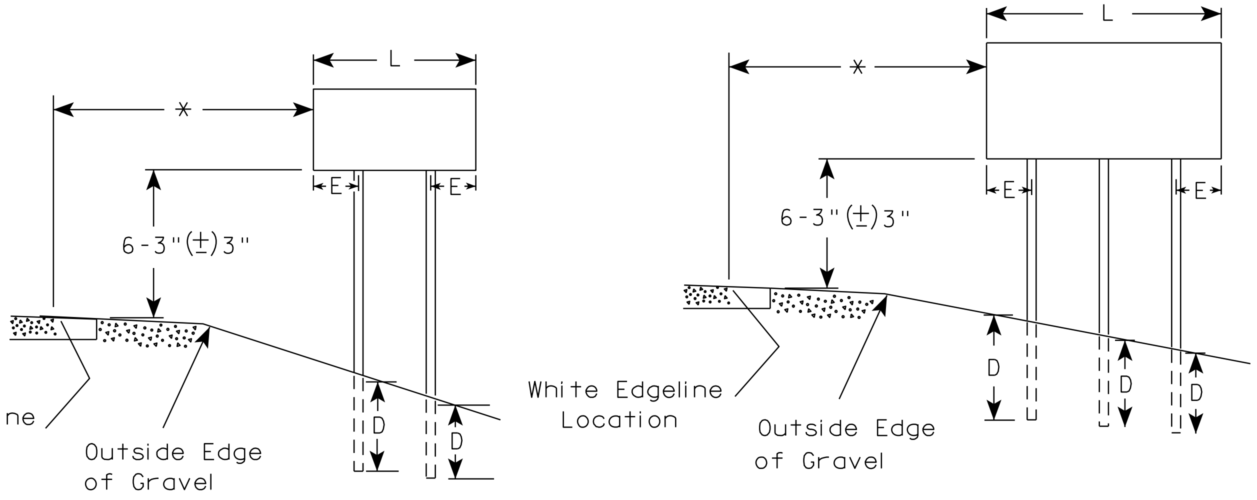
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 1/27/14 PLATE NO. A4-3B.1

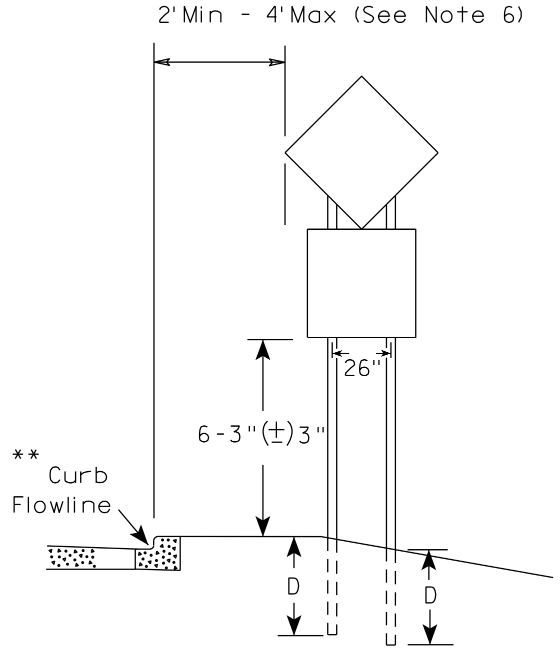
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

URBAN AREA

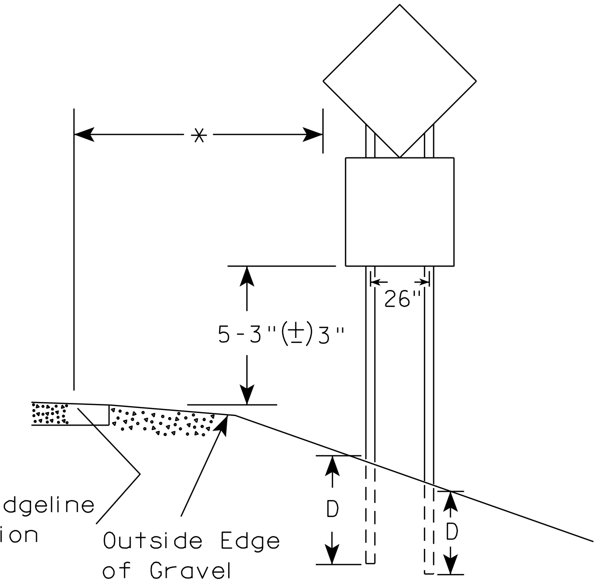


RURAL AREA (See Note 3)





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" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

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

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

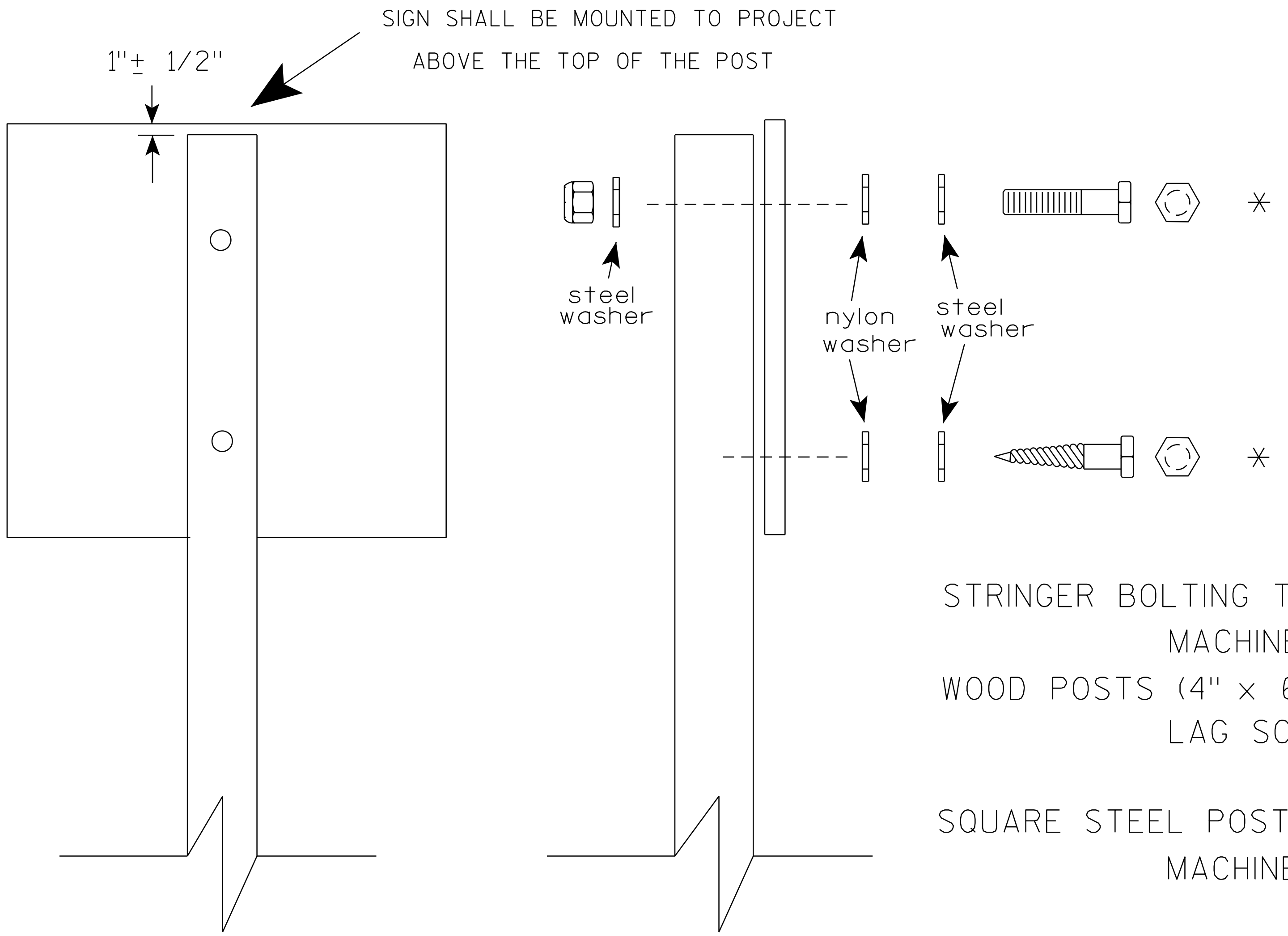
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

7

7

PROJECT NO: HWY: COUNTY: SHEET NO: 129 E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - $\frac{5}{16}$" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")
LAG SCREWS - $\frac{3}{8}$" X 3" (NO STRINGERS ON BACK OF SIGN)
$\frac{3}{8}$" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - $\frac{3}{8}$" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
$\frac{3}{8}$" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - $\frac{9}{32}$ " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

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

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

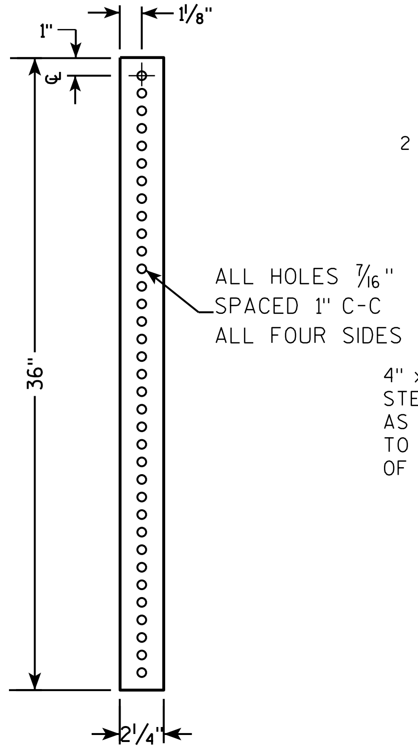
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

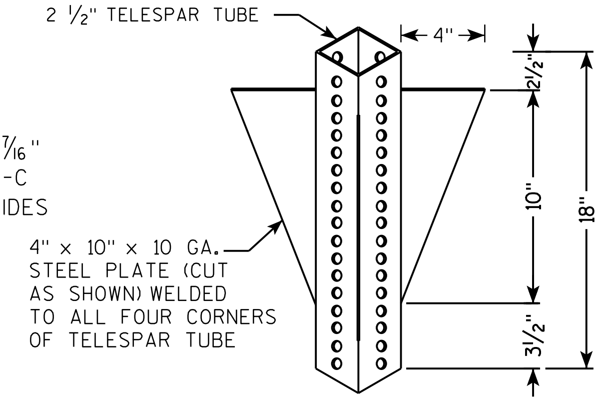
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

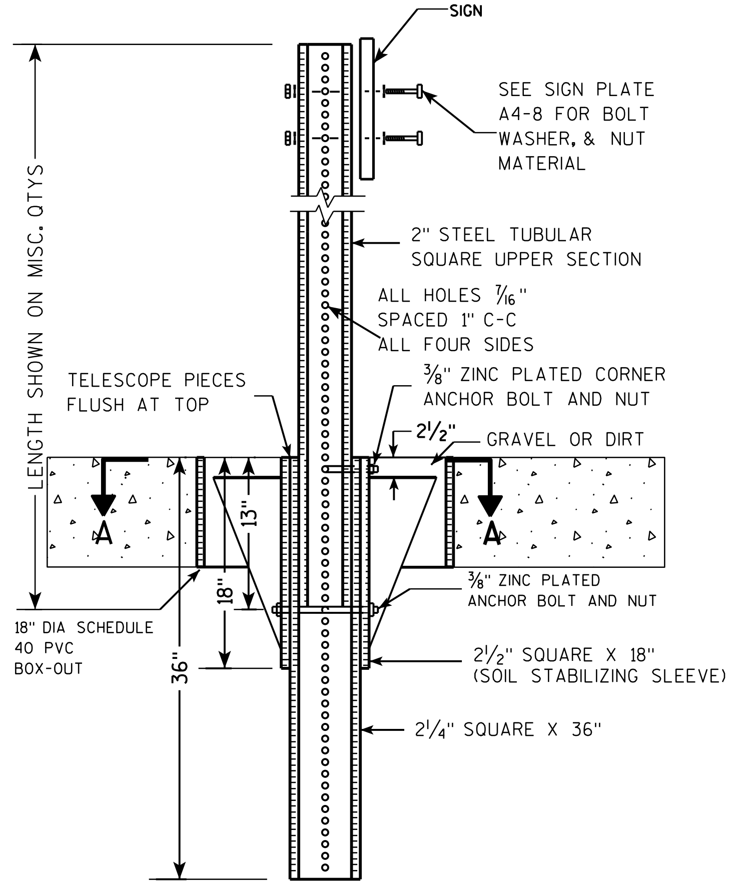
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



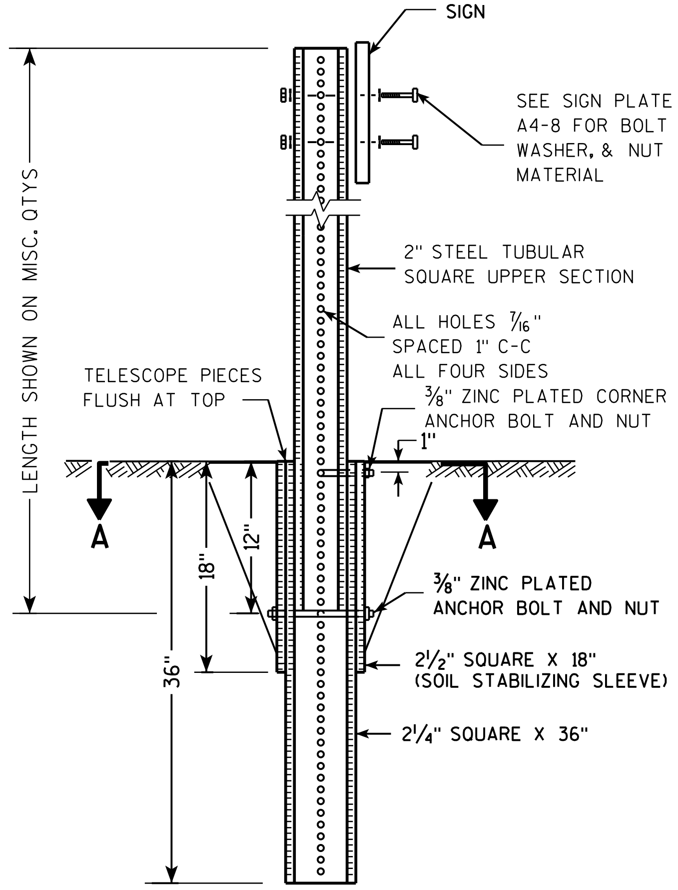
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

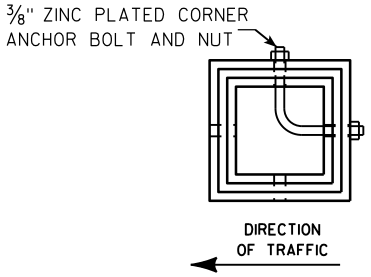


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

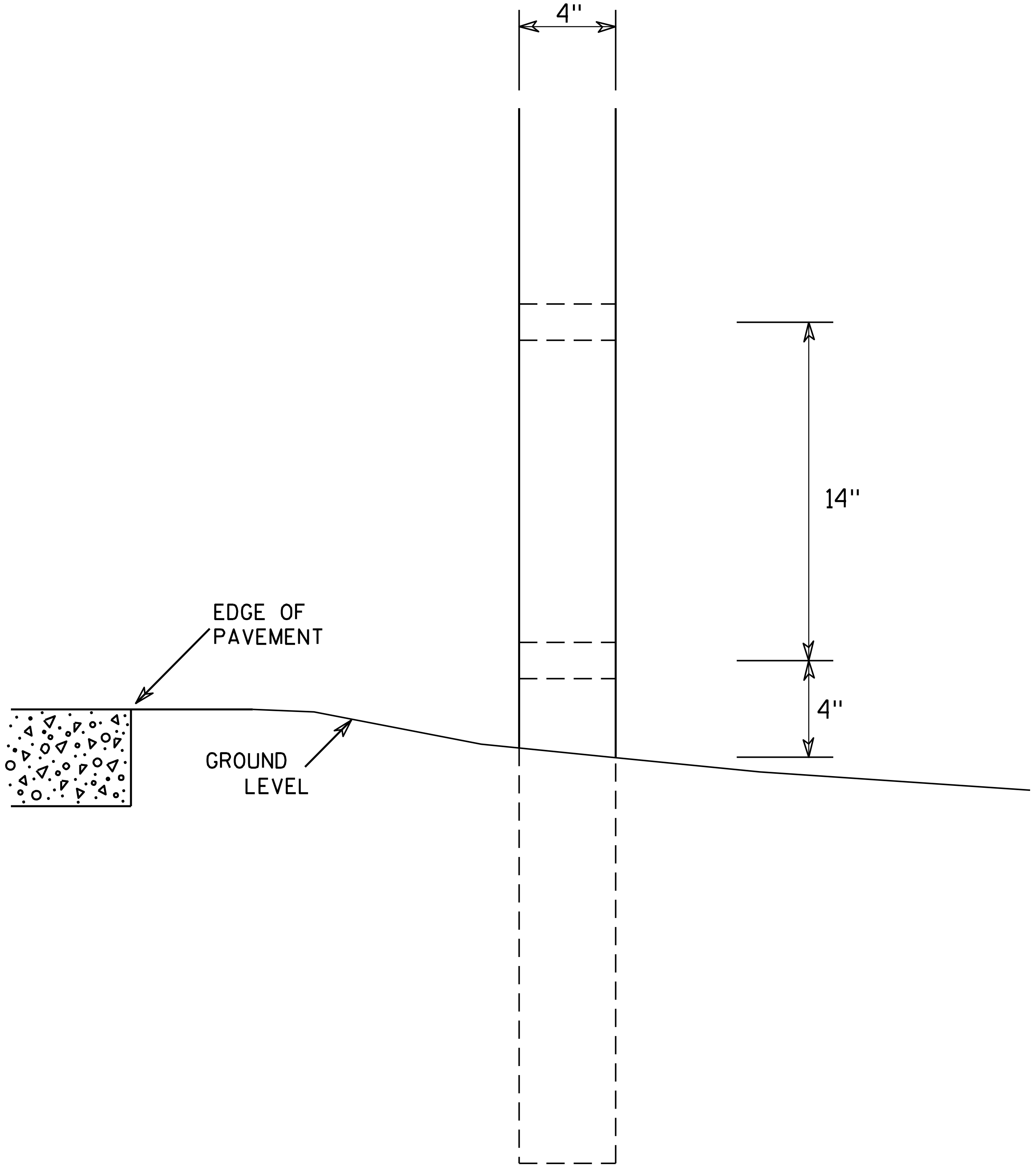
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

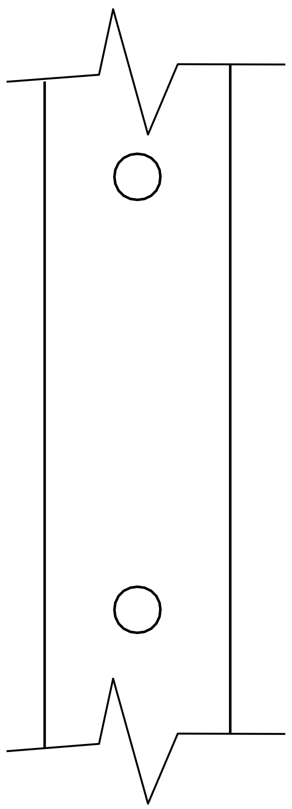
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9





SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two $1\frac{1}{2}$" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

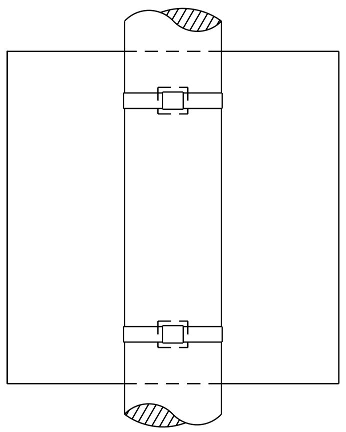
APPROVED Chester J Spang
for State Traffic Engineer

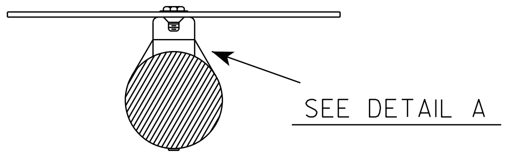
DATE 3/27/97 PLATE NO. A4-11.2

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

BANDING

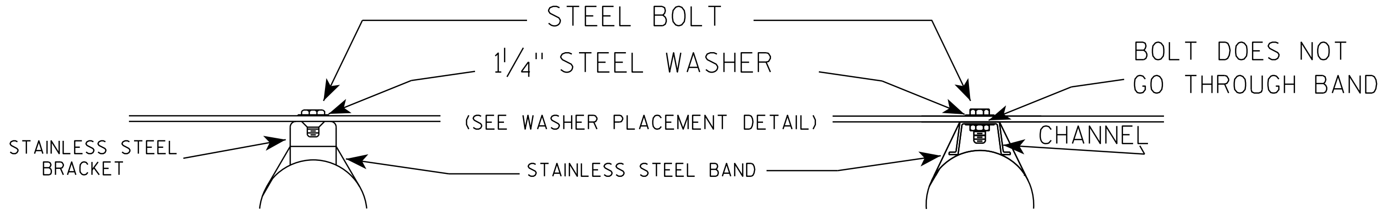
SINGLE SIGN





GENERAL NOTES

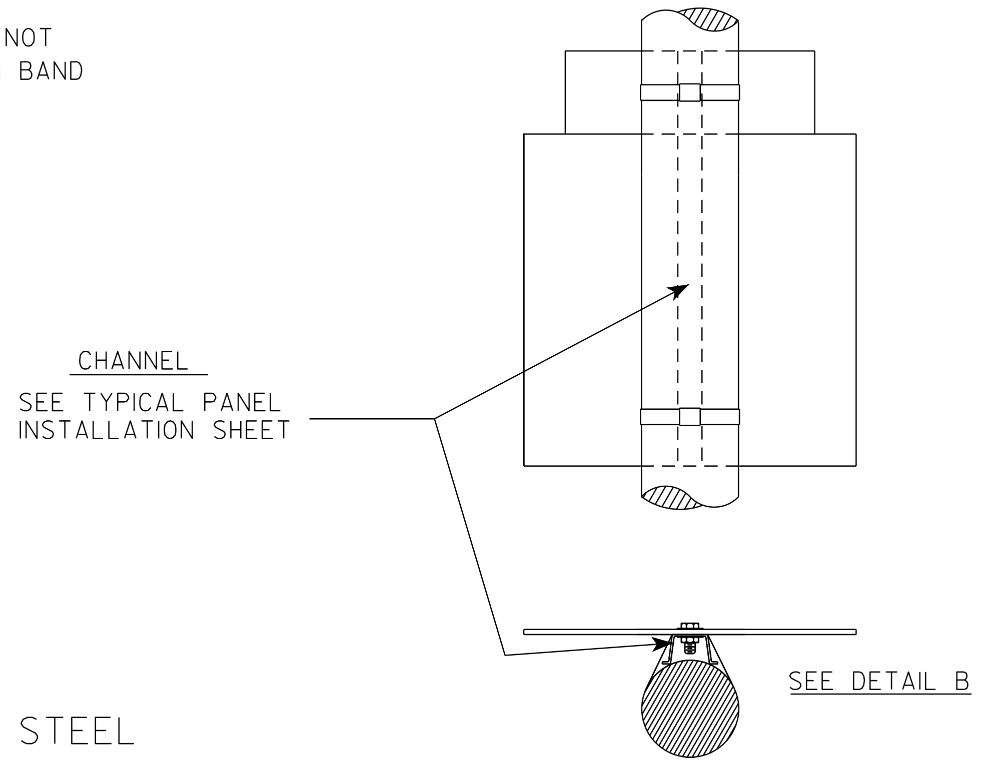
1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3



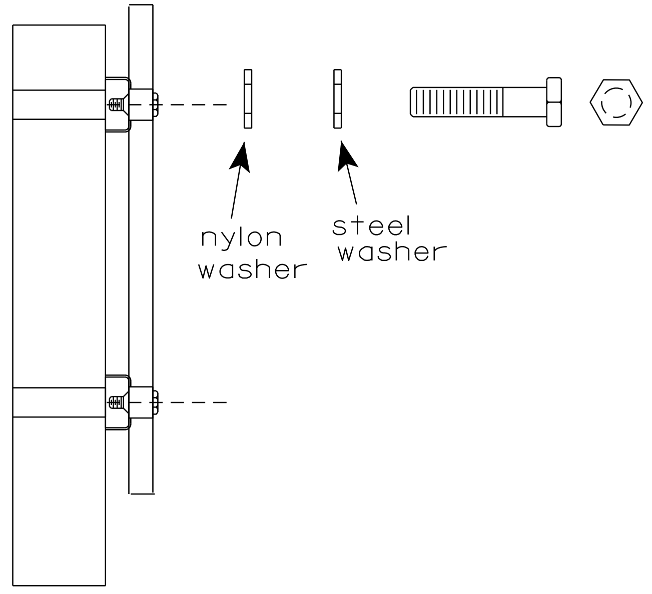
DETAIL A

DETAIL B

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -

1-1/4" O.D. X$\frac{3}{8}$" I.D. X$\frac{1}{16}$" STEEL

1-1/4" O.D. X$\frac{3}{8}$" I.D. X .080 NYLON

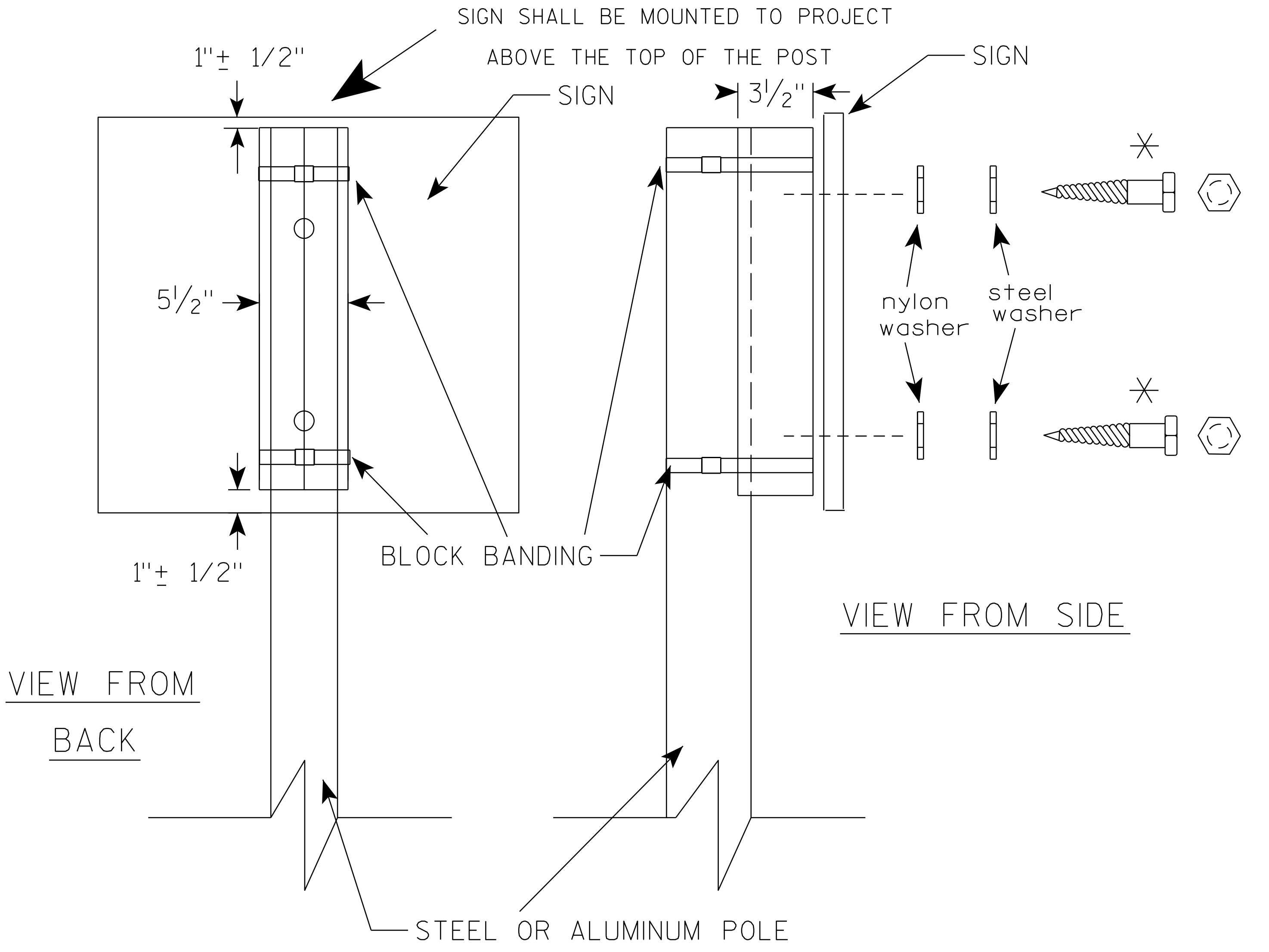
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

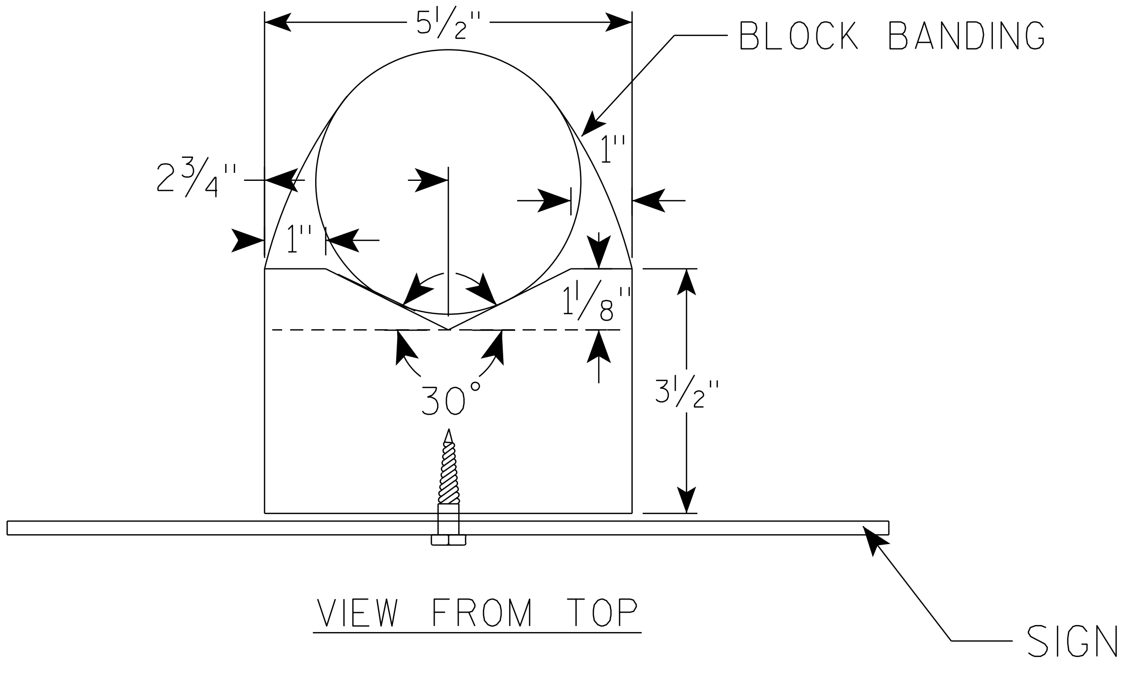
APPROVED Matthew R Rauch
for State Traffic Engineer

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



VIEW FROM BACK

VIEW FROM SIDE



VIEW FROM TOP

GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

* LAG BOLTS SHALL BE 3/8" X 2 1/2"

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

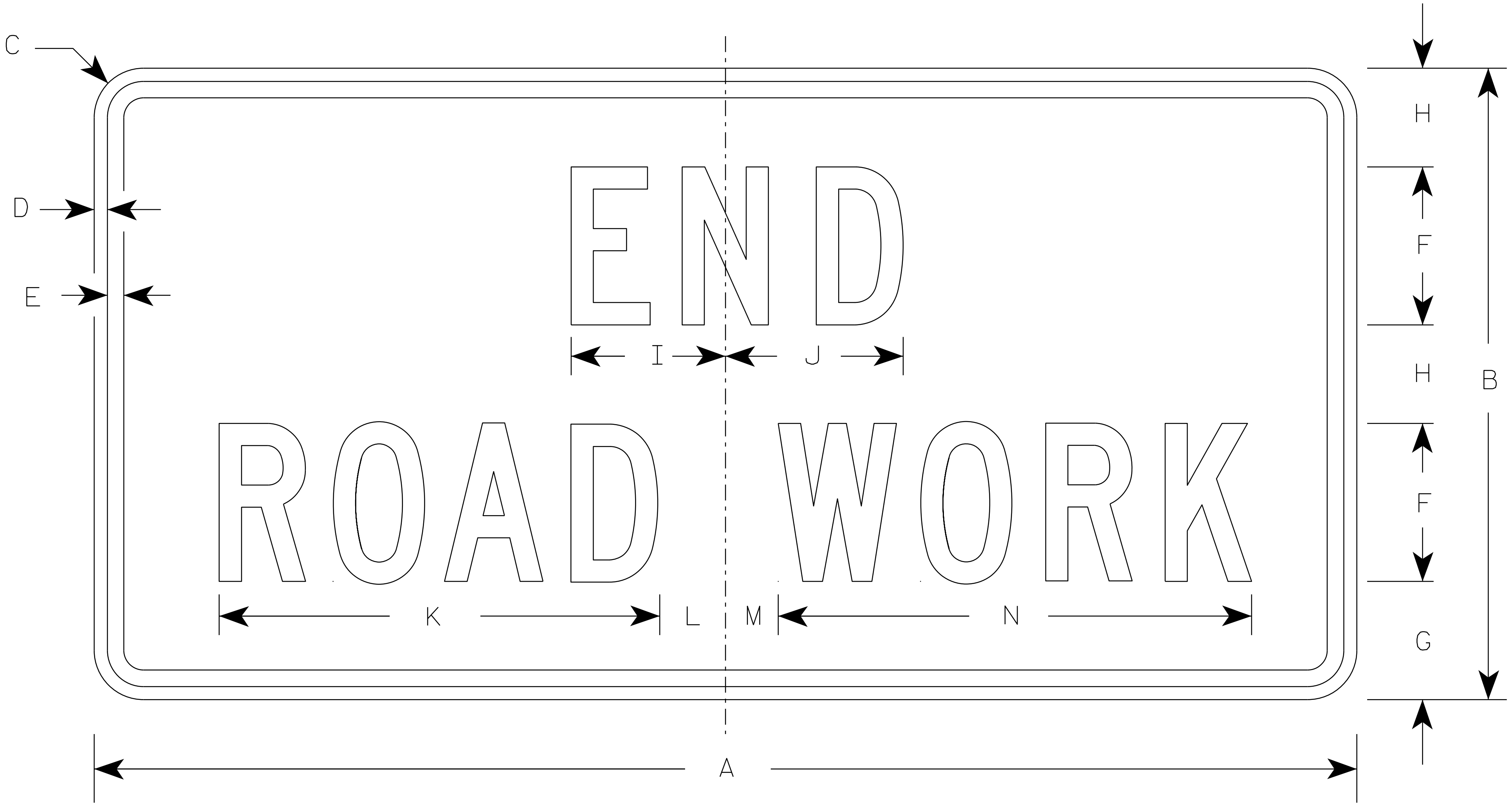
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 134 E



G20-2A

NOTES

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

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

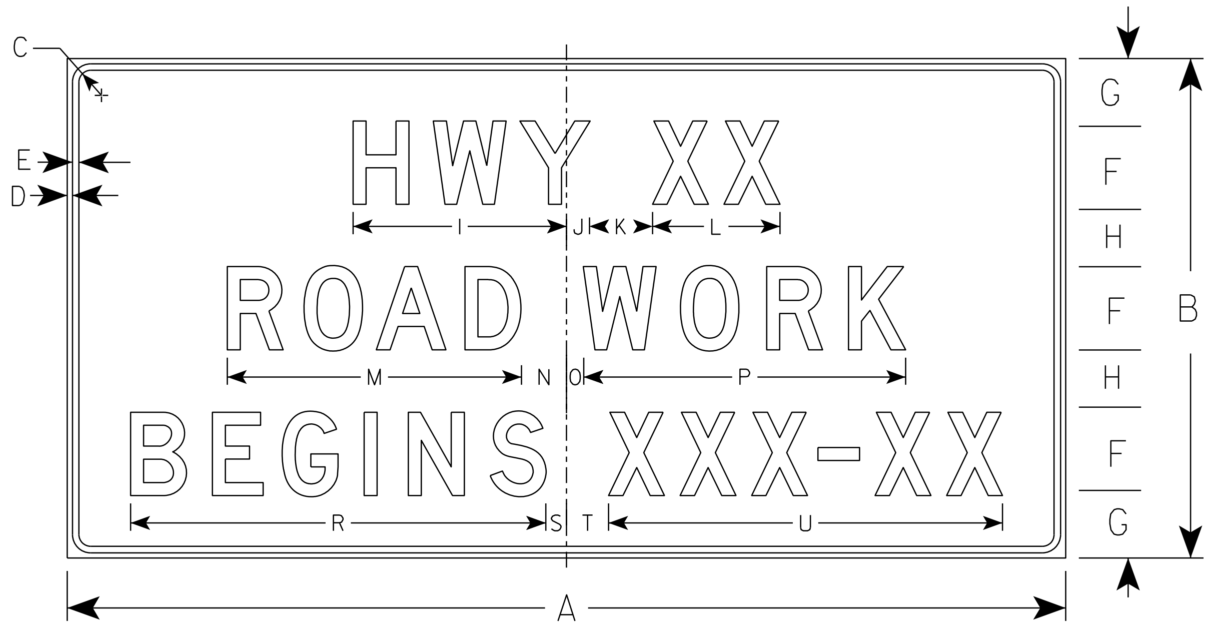
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: HWY: COUNTY:

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



G20-57

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																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 7/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 7/8						32.0
5																											

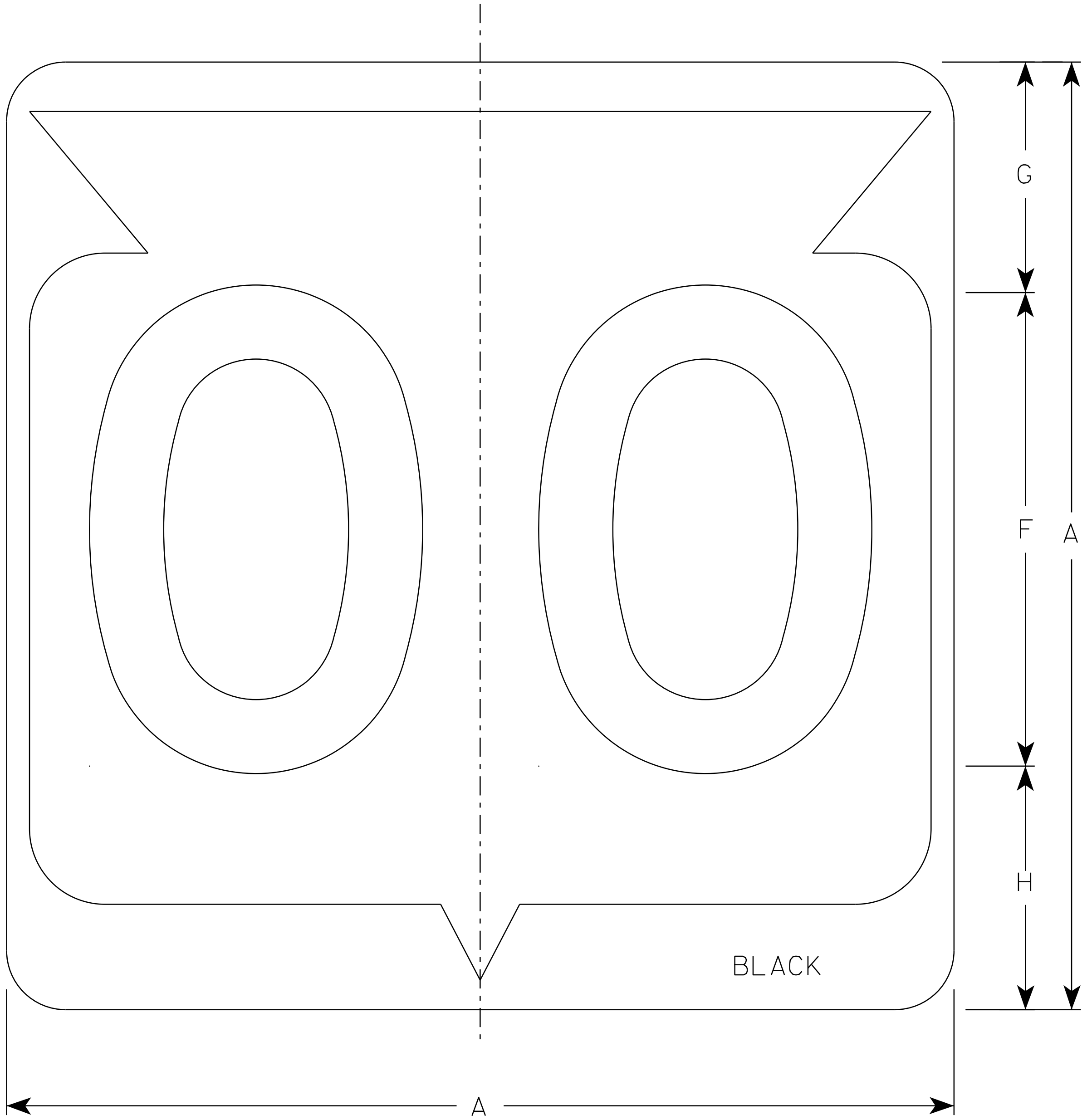
STANDARD SIGN
G20-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/22/19 PLATE NO. G20-57.3

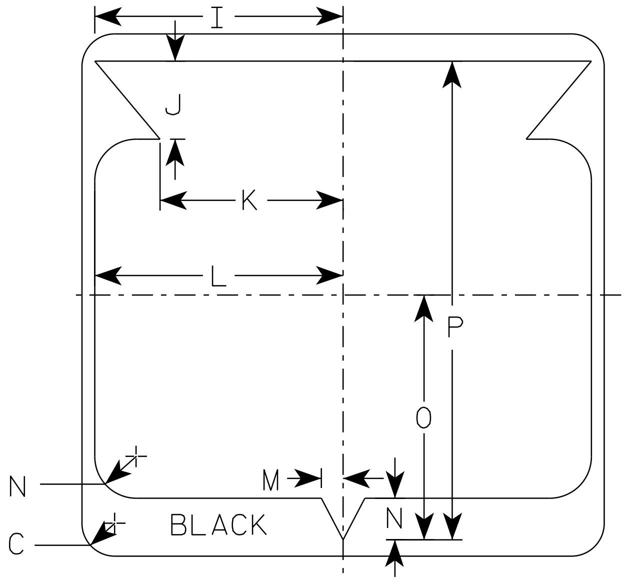
PROJECT NO: HWY: COUNTY: SHEET NO: 136 E



M1-6

NOTES

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



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

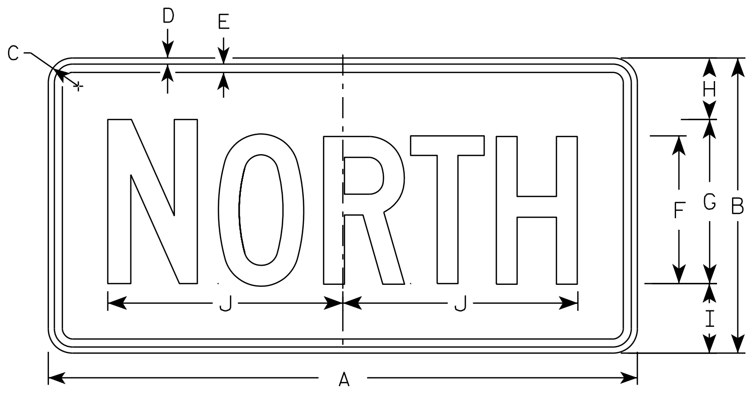
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

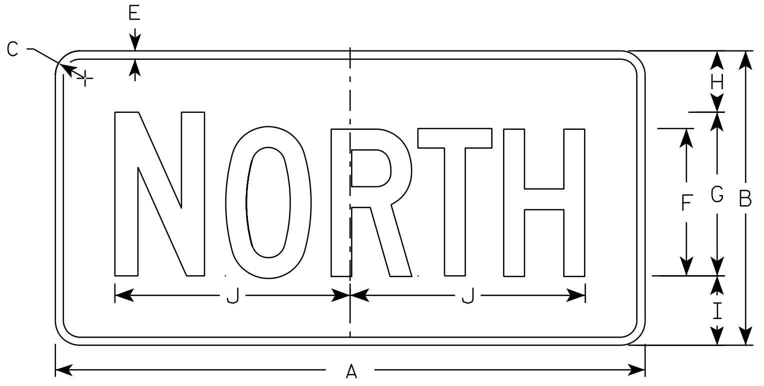
APPROVED Matthew R Rauch
for State Traffic Engineer

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

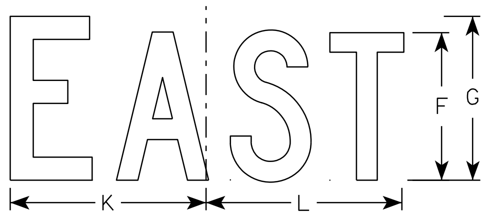
PROJECT NO: HWY: COUNTY: SHEET NO: 137 E



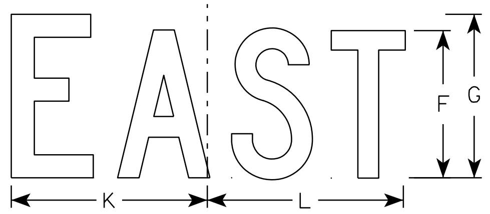
M3-1
MM3-1
MP3-1



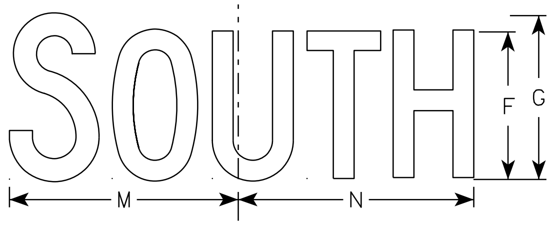
MB3-1
MK3-1
MN3-1



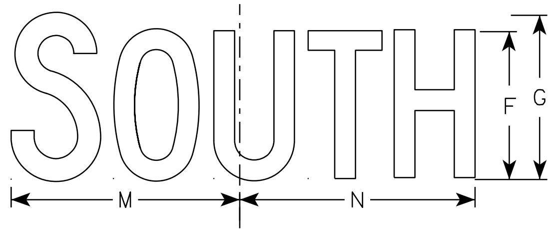
M3-2
MM3-2
MP3-2



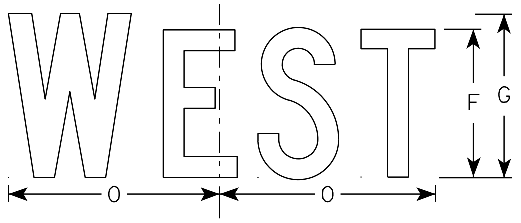
MB3-2
MK3-2
MN3-2



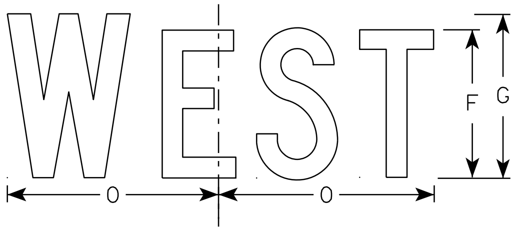
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

STANDARD SIGNS
M3-1 THRU M3-4
SERIES

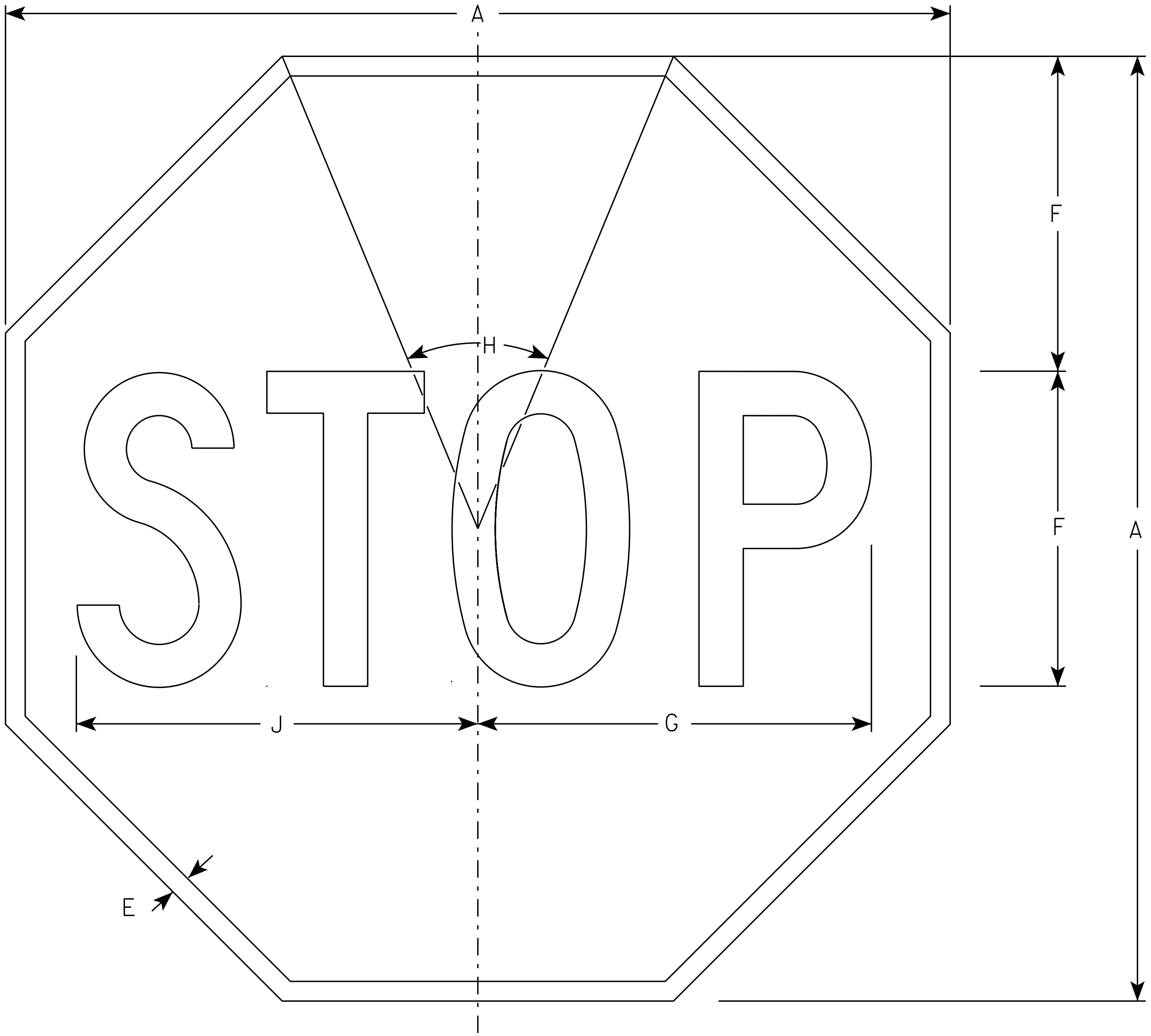
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: HWY: COUNTY:

SHEET NO: 138 E



R1-1

NOTES

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

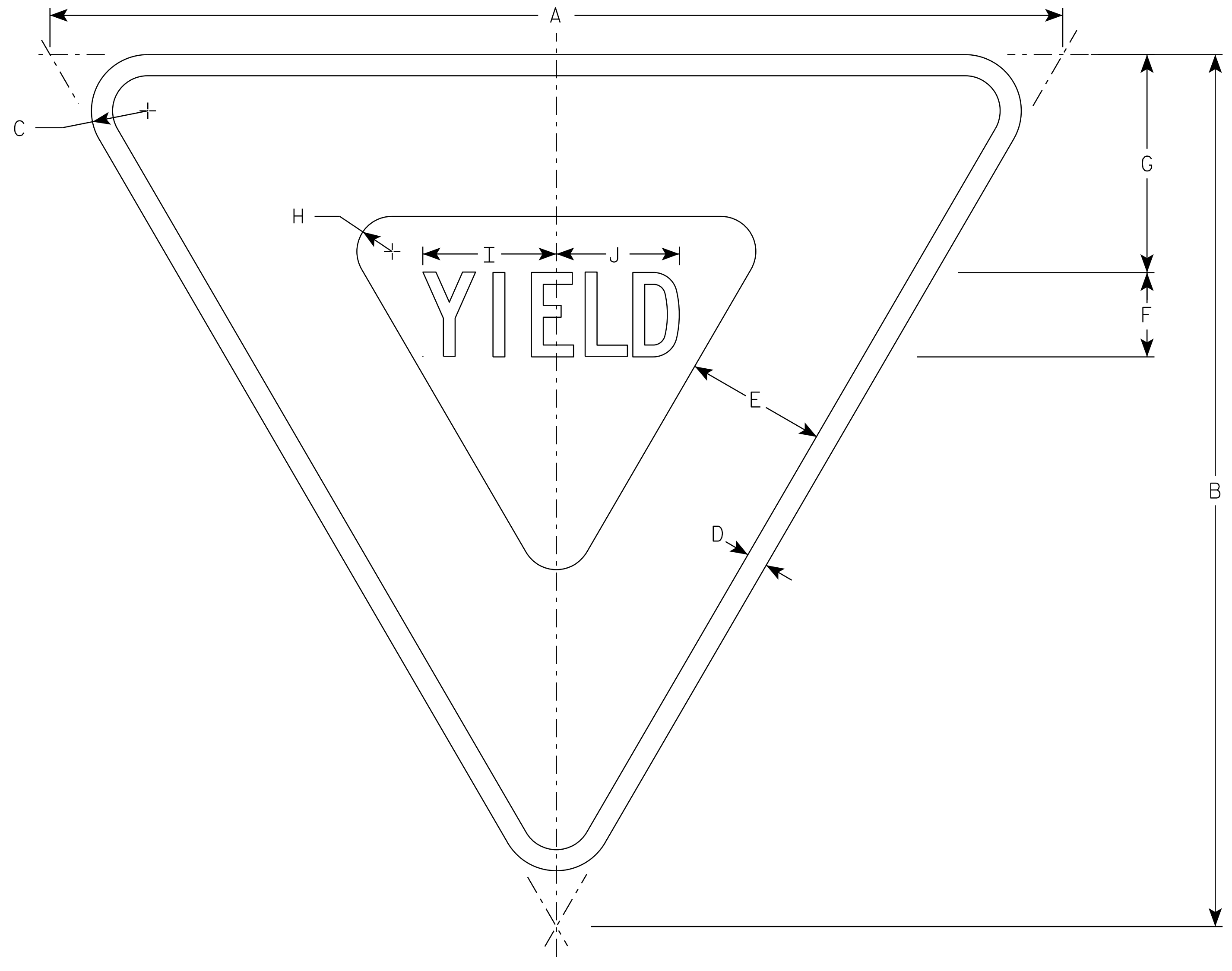
STANDARD SIGN
R1-1

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:



R1-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 4
3. Message Series - C
4. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

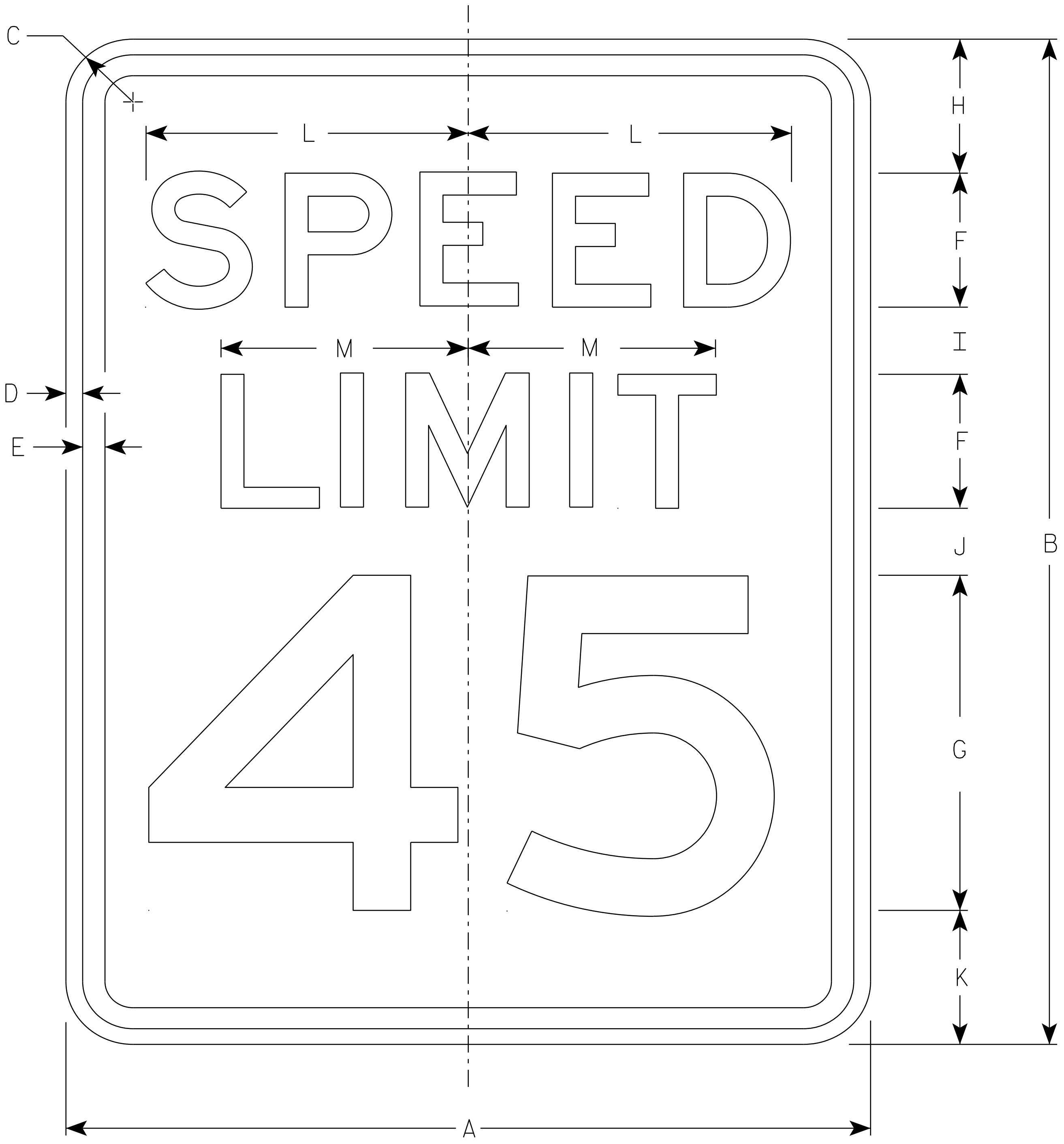
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/10/2024 PLATE NO. R1-2.13

PROJECT NO: HWY: COUNTY: SHEET NO: E

NOTES

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



R2-1

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

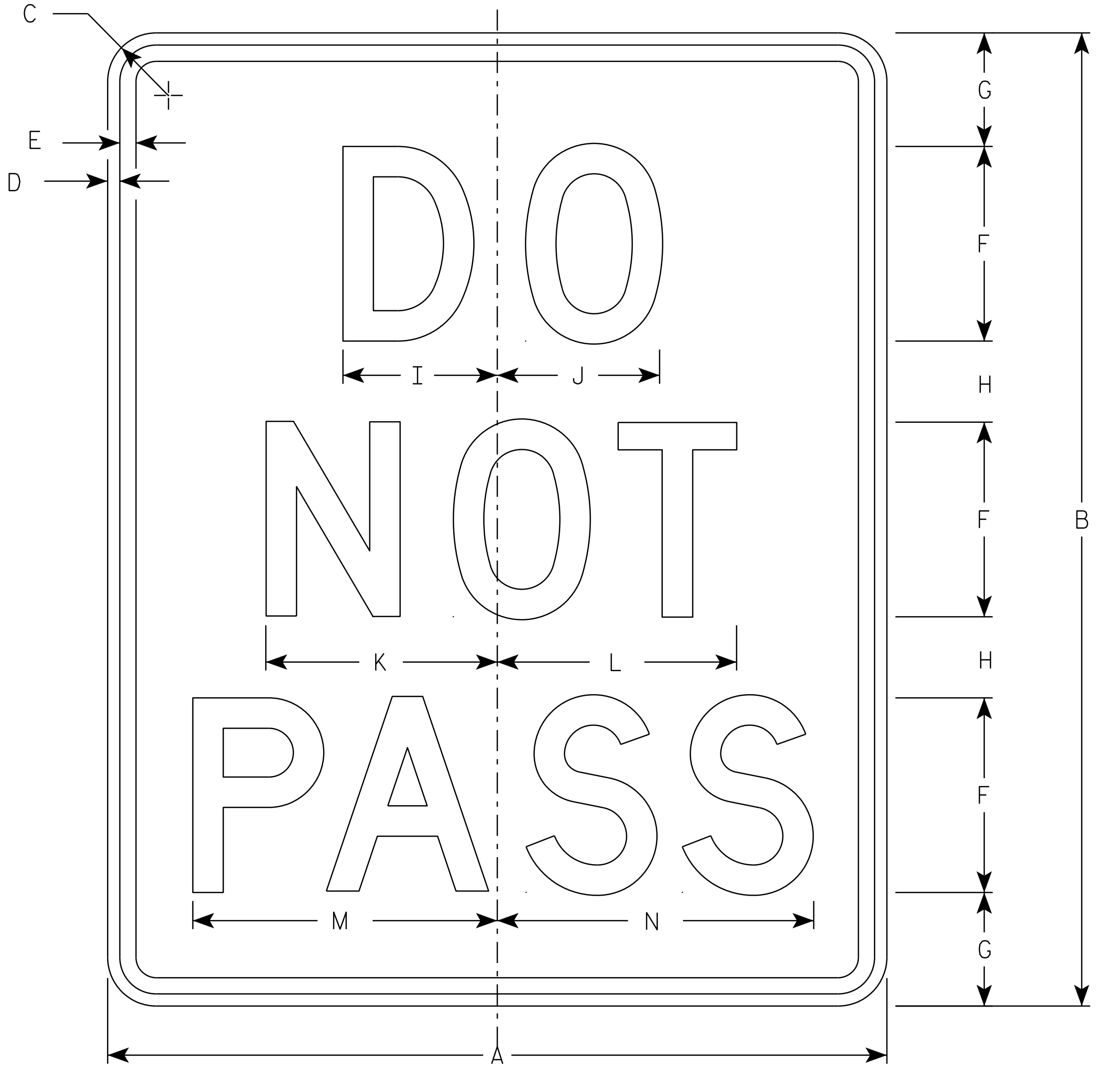
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: HWY: COUNTY: SHEET NO: 141 E



R4-1

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/2	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/2	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3	36	48	1 7/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
4	36	48	1 7/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	3	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

STANDARD SIGN
R4-1

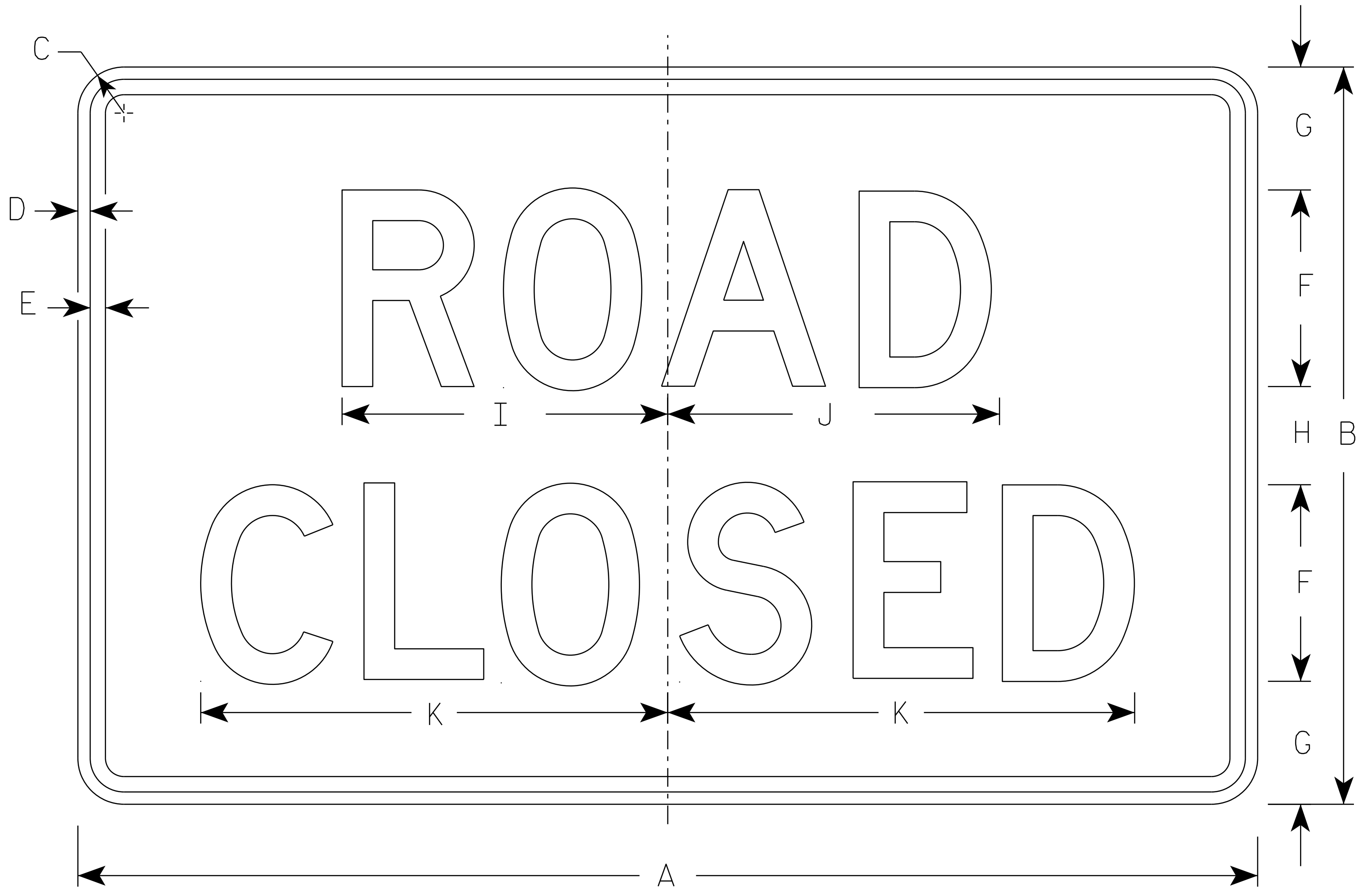
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/23
PLATE NO. R4-1.8

PROJECT NO:
HWY:
COUNTY:
SHEET NO: 142
E

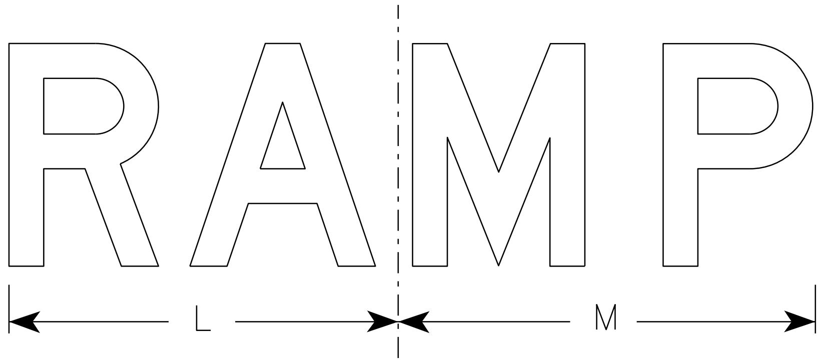
FILE NAME : C:\CAefiles\Project\tr_stdplate\R41.dgn
PLOT DATE : 16-MAR 2023 2:26
PLOT BY : mscj9h
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$



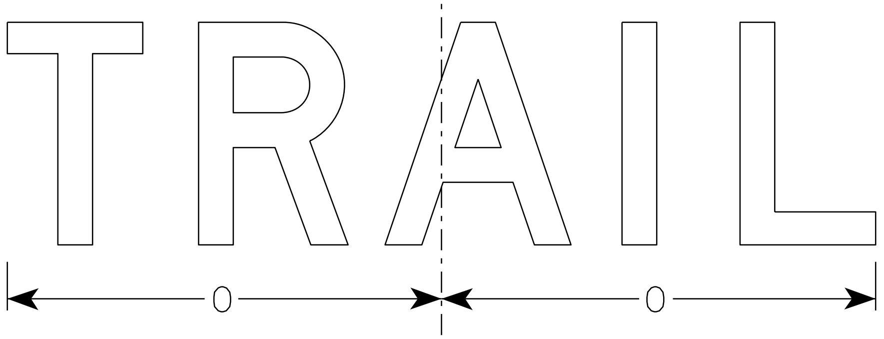
R11-2

NOTES

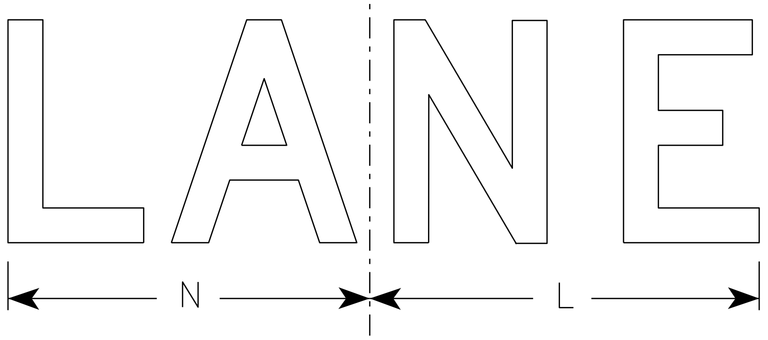
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the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



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

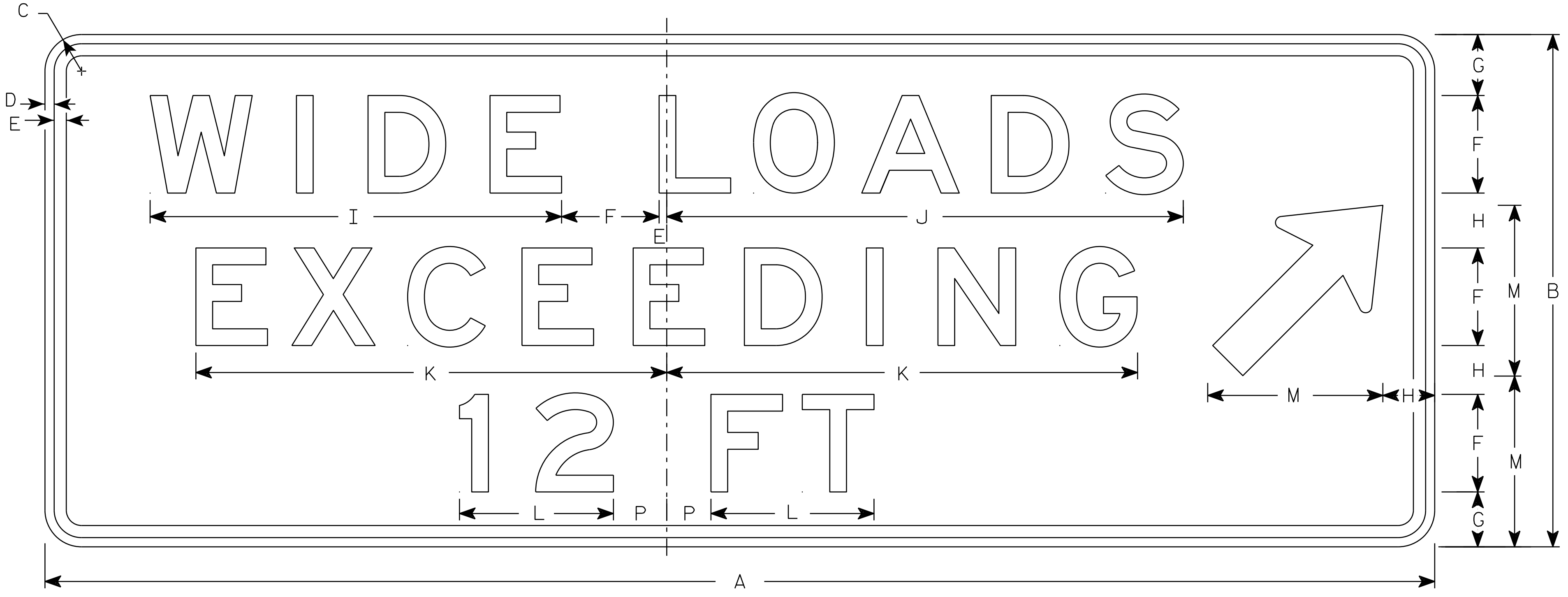
DATE 2/5/24 PLATE NO. R11-2.12

PROJECT NO: HWY: COUNTY: SHEET NO: E

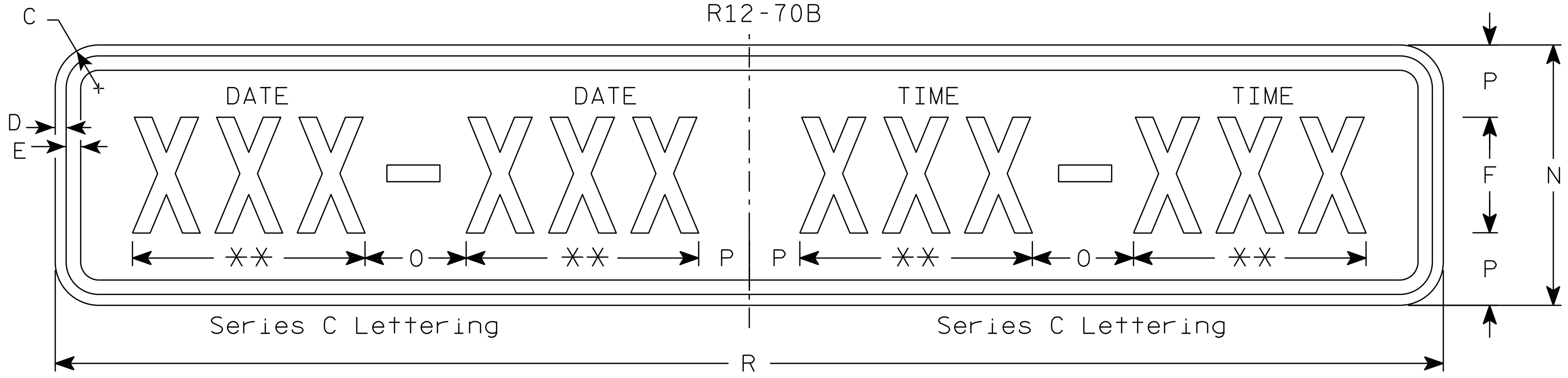
NOTES

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

✱✱ Substitute appropriate message, optically center message



R12-70B



R12-70C

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	R12-70 Area sq. ft.	R12-70C Area sq. ft.
1																												
2S	90	36	3	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
2M	90	36	3	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
3	90	36	3	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
4	114	42	3	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0
5	114	42	3	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0

TYPICAL SIGN
R12-70B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/24 PLATE NO. R12-70B.4

PROJECT NO: HWY: COUNTY: SHEET NO: 144 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R1270B.dgn PLOT DATE : 9-FEB 2024 9:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

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

W4-4P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
2M	24	12	1 1/2	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
3	36	15	1 1/2	3/8	1/2	4	2 5/8	1 3/4	10 3/4	2 3/8	3/8	13 1/2	8 3/8	3	3 1/8	8 3/8											3.75
4	42	18	1 1/2	3/8	1/2	5	3	2	13 3/8	3 1/8	3/8	16 7/8	10 1/2	3 5/8	3 7/8	10 3/8											5.25
5																											

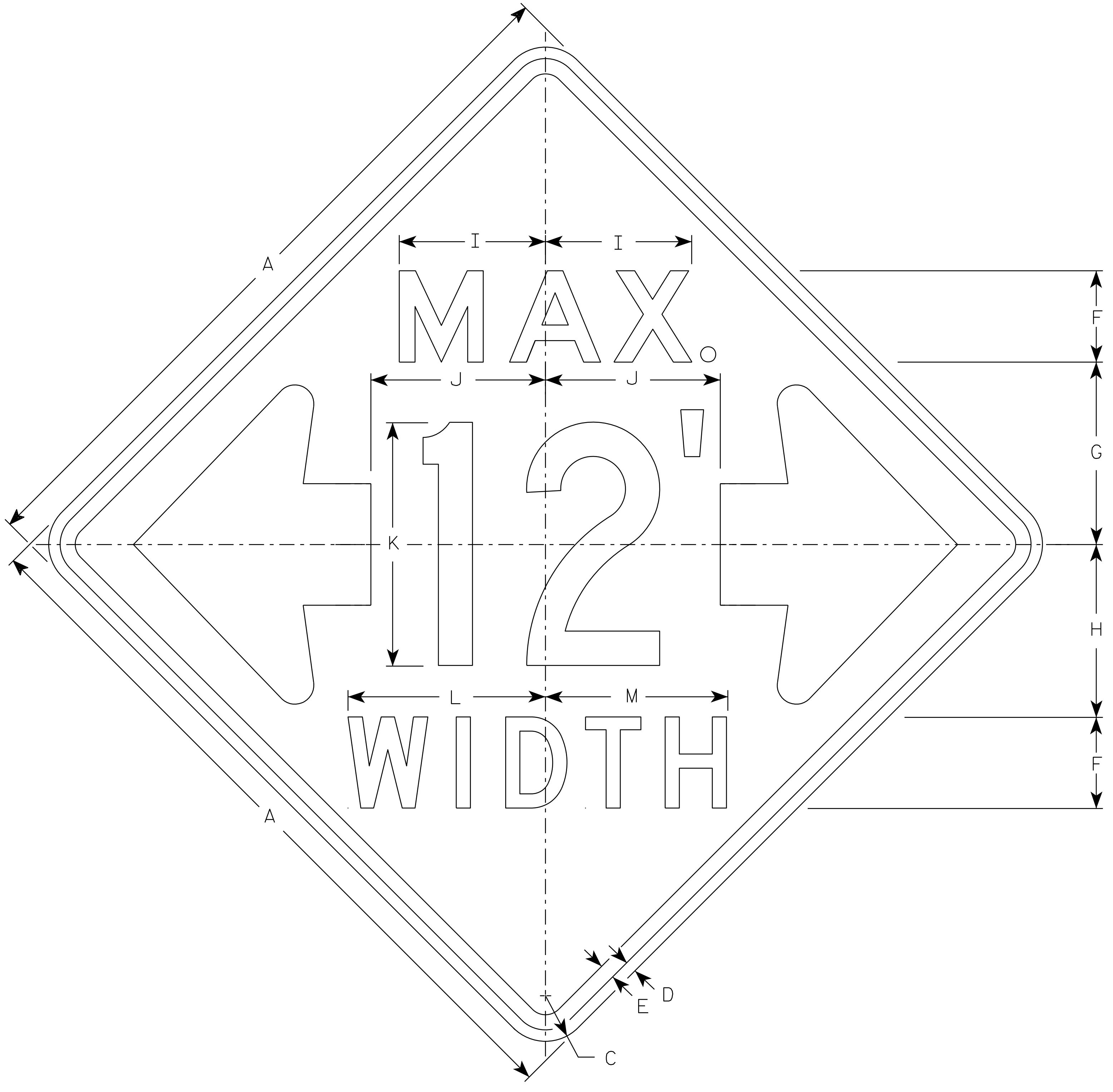
STANDARD SIGN
W4-4P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/5/2023 PLATE NO. W4-4P.3

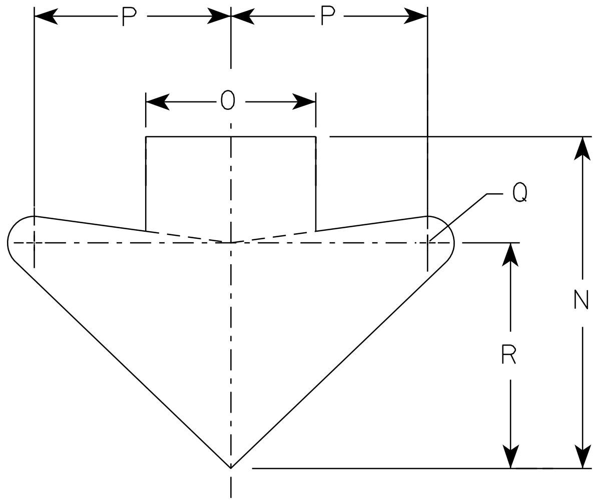
PROJECT NO: HWY: COUNTY: SHEET NO: E



W12-52

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. The top line is series E, the numerals are series C, and the bottom line is series D.
5. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

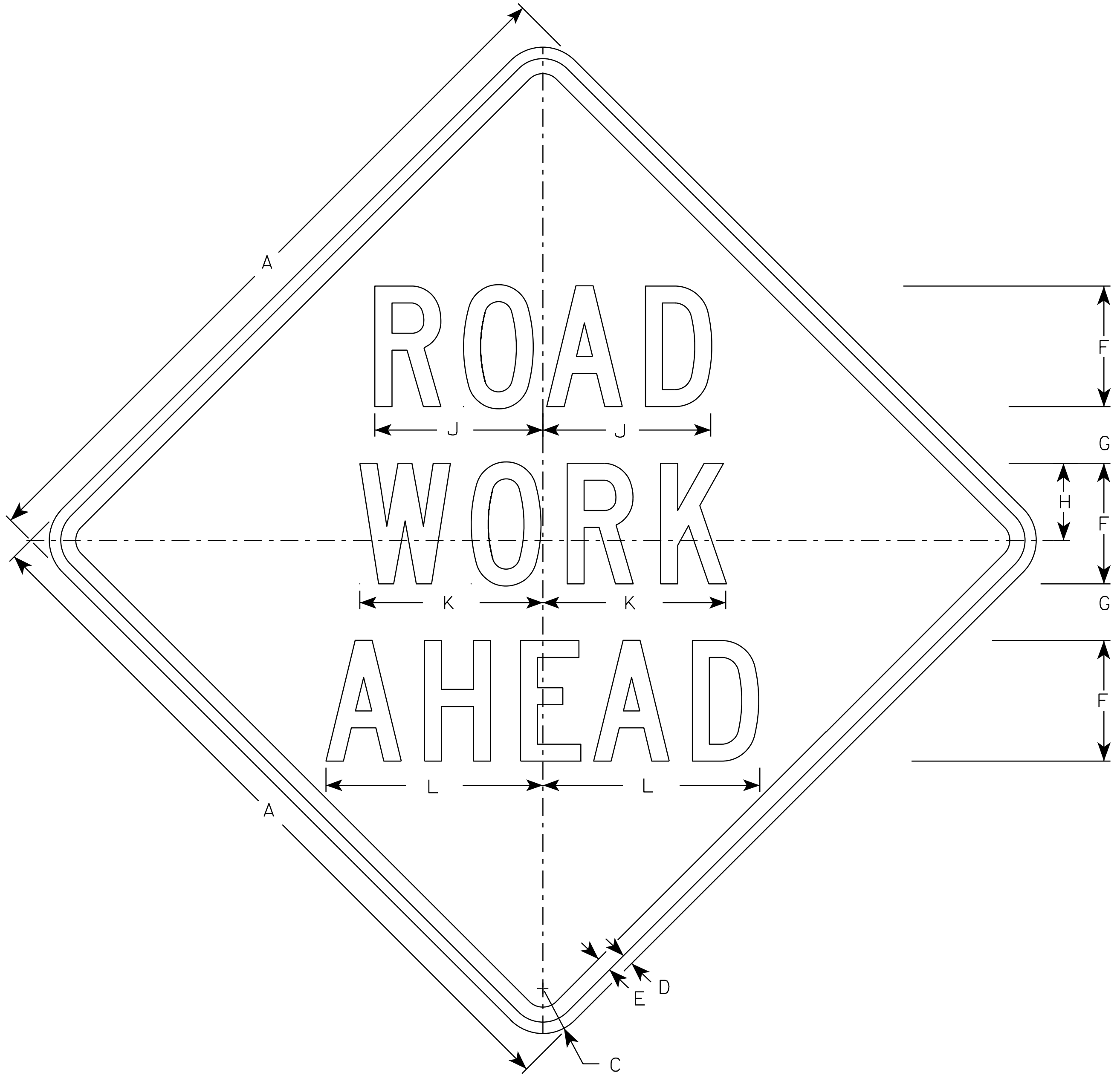
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		3	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		3	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																				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

STANDARD SIGN
W12-52

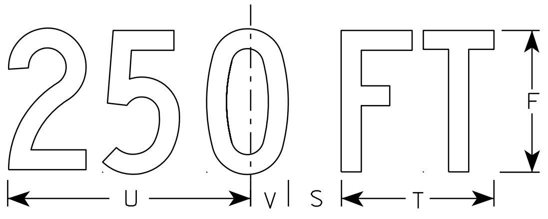
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/10/2024 PLATE NO. W12-52.8

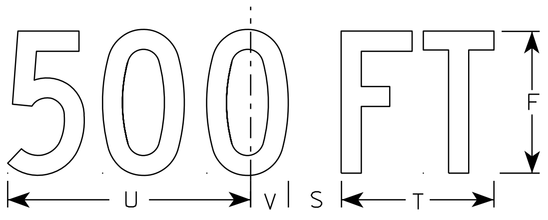
PROJECT NO: HWY: COUNTY: SHEET NO: 146 E



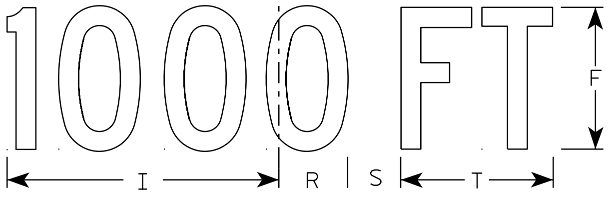
W20-1A



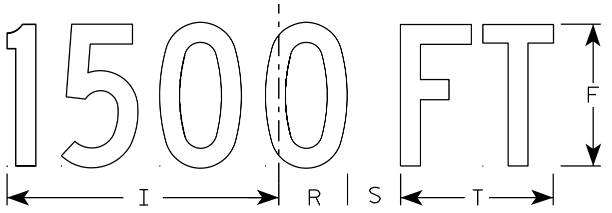
W20-1H



W20-1D



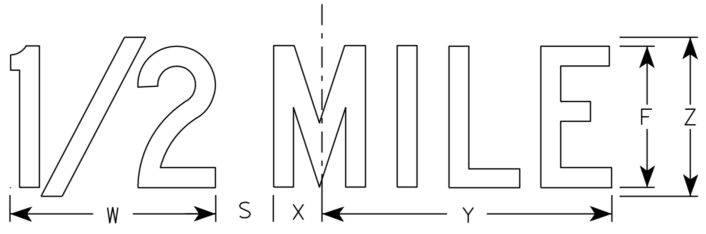
W20-1C



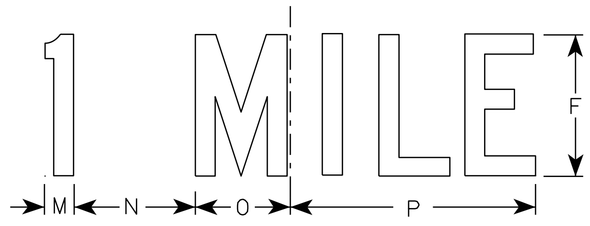
W20-1B

NOTES

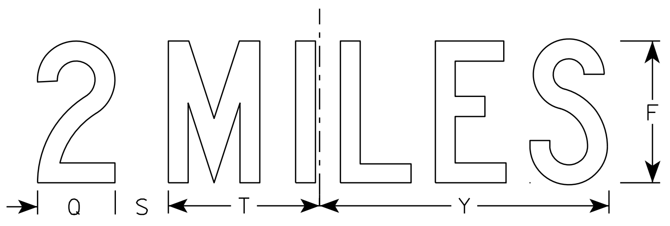
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

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

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

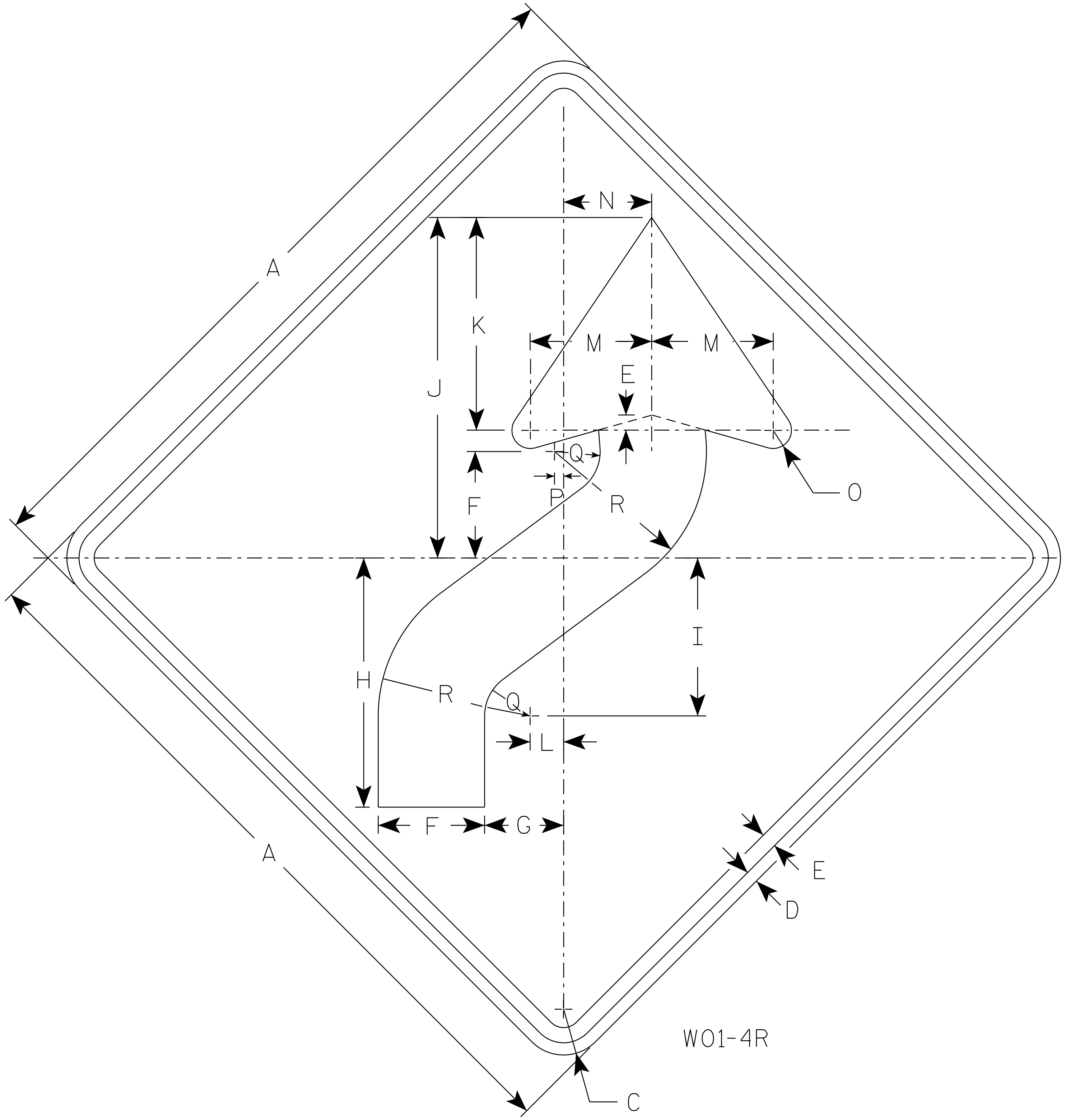
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

SHEET NO: 147 E



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

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

STANDARD SIGN
W01-4

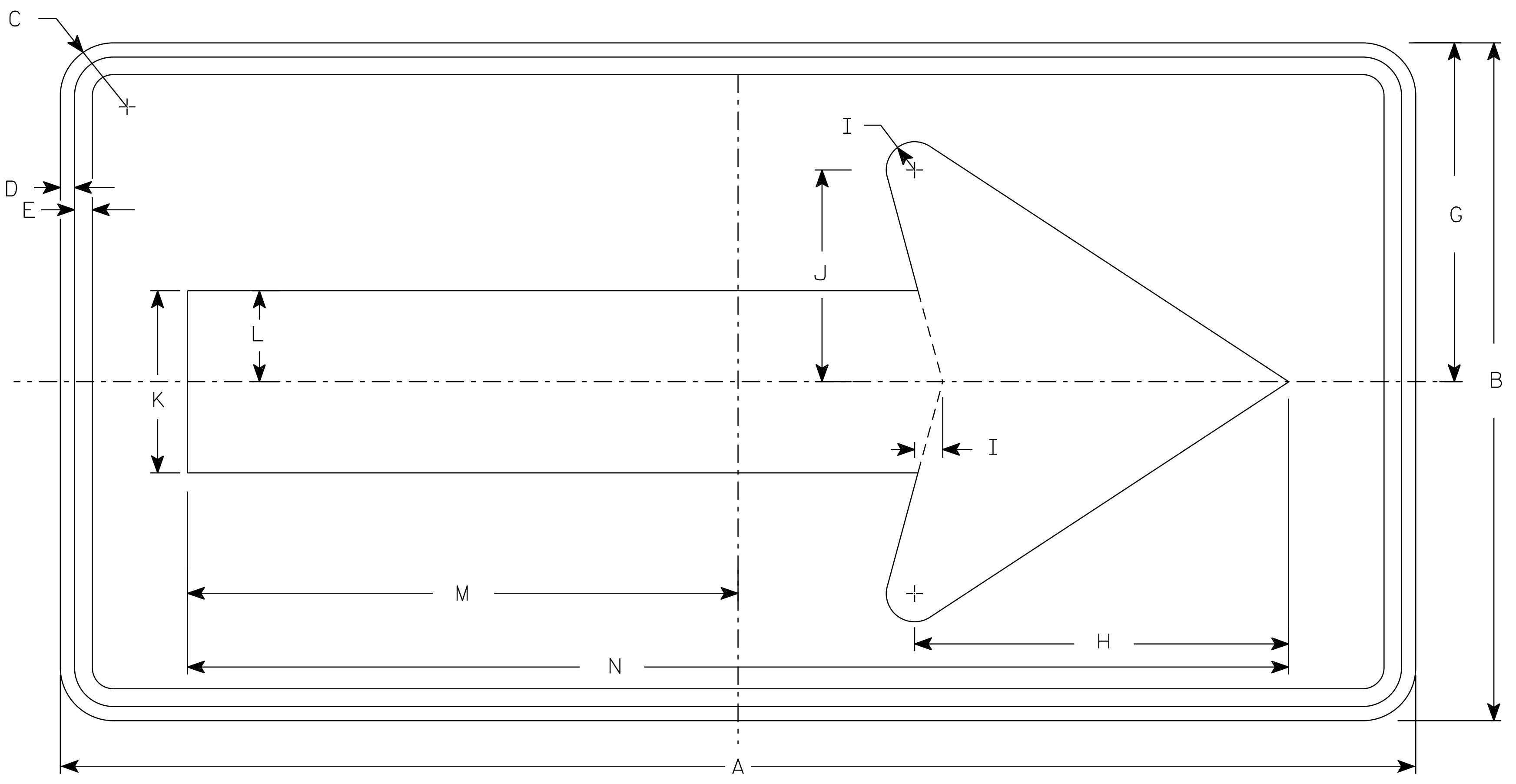
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-4.2

PROJECT NO: HWY: COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.dgn PLOT DATE : 24-JAN 2024 10:56 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W01-6

NOTES

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

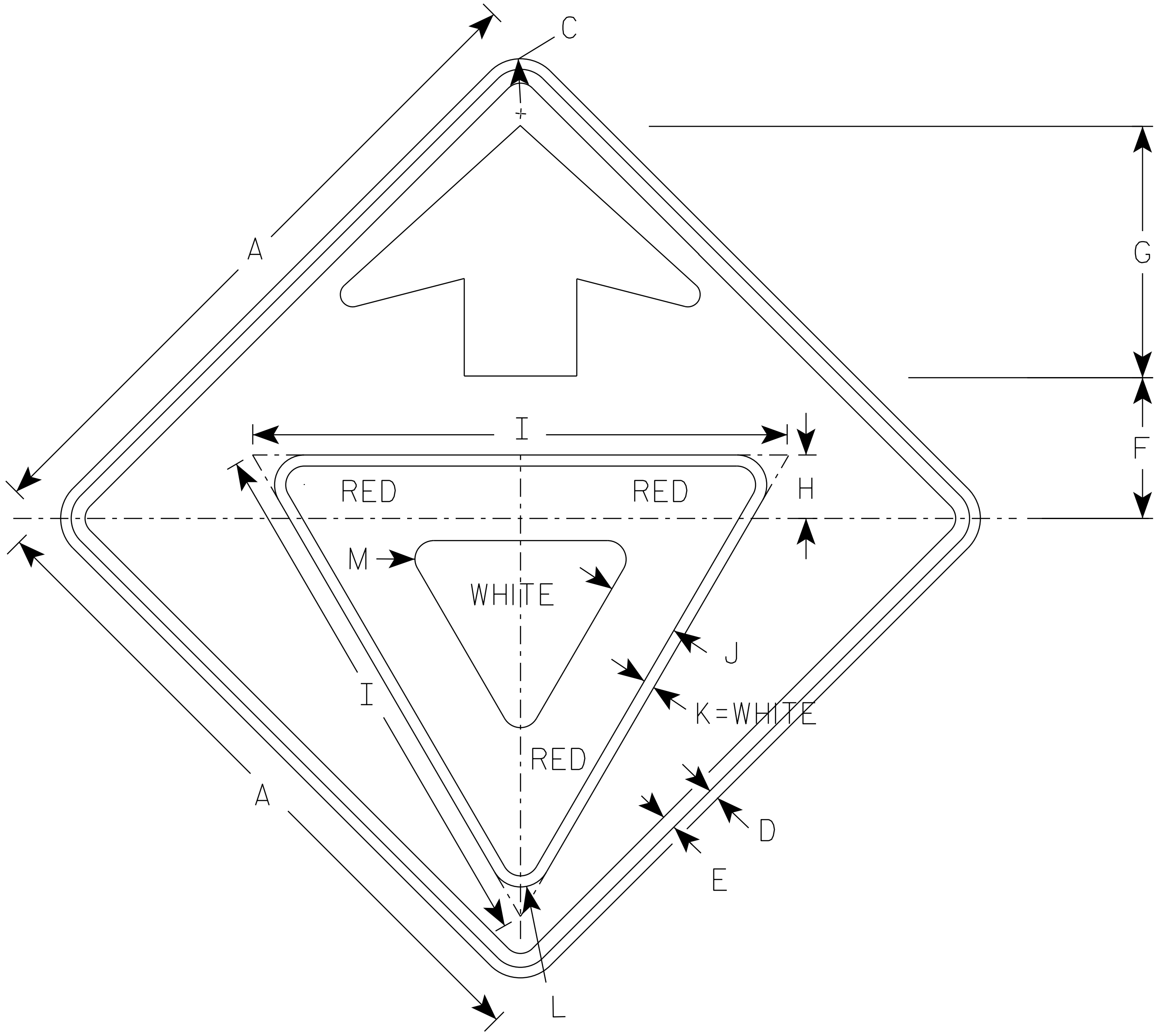
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

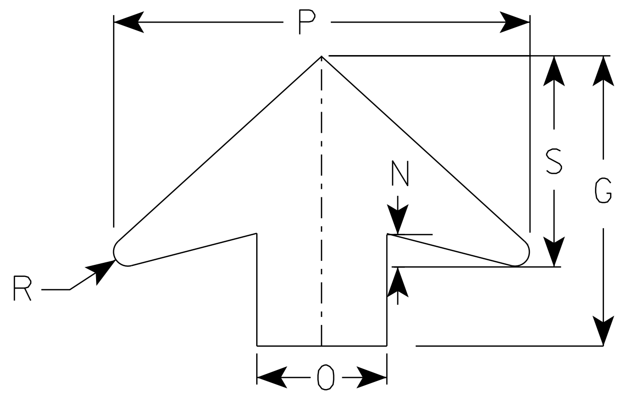
DATE 1/24/2024 PLATE NO. W01-6.2



W03-2

NOTES

1. All Signs Type II - Type F Reflective
2. Color:
    Background - ORANGE
    Arrow & Border - BLACK
    Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2S	48		3	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
2M	48		3	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
3	48		3	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
4	48		3	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		3	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W03-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W03-2.2

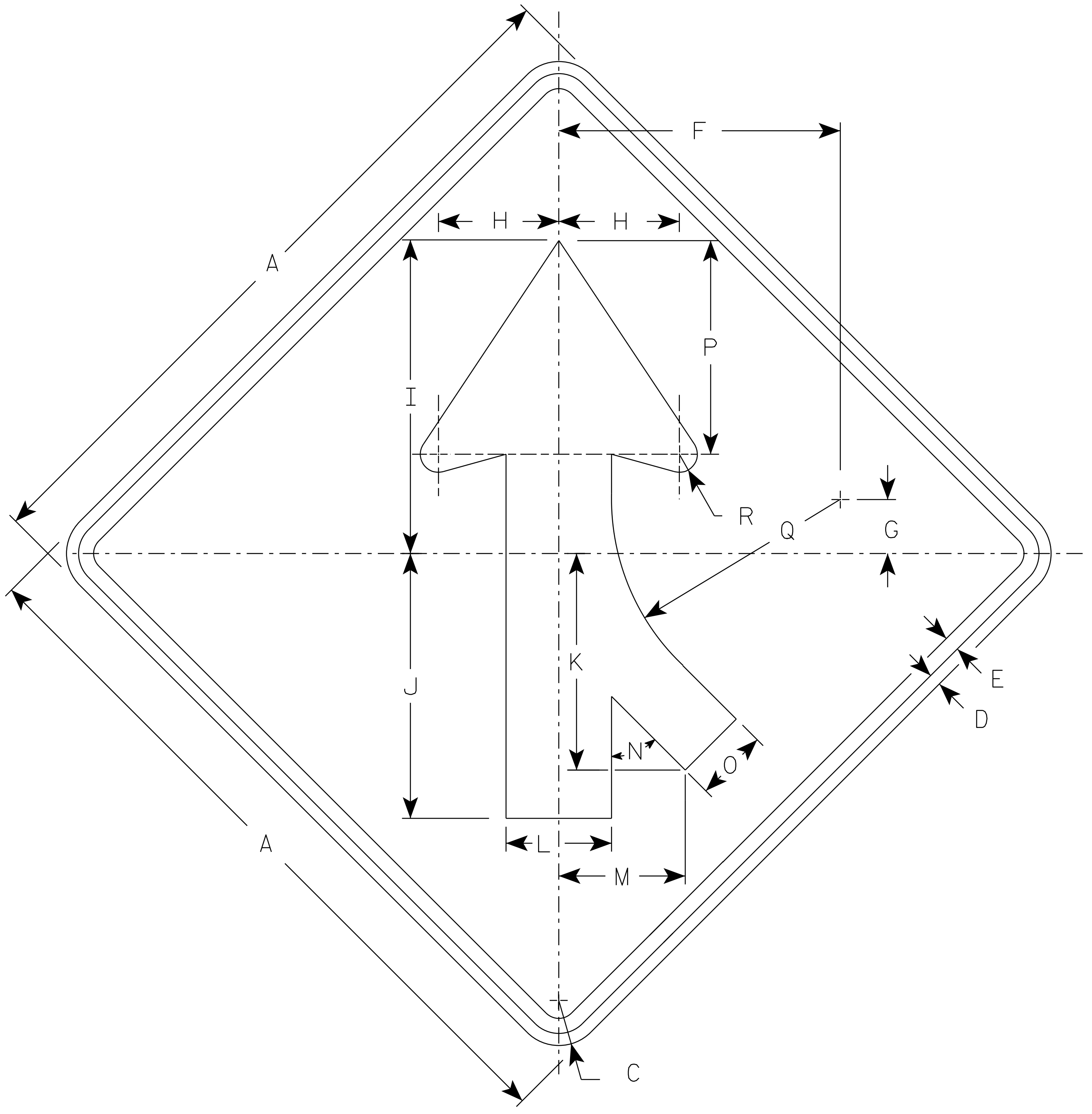
PROJECT NO:

SHEET NO: **E**

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W032.DGN

PLOT DATE : 24-JAN 2024 1:55

PLOT BY : dotc4c



W04-1R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-1L is the same as W04-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2S	48		3	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
2M	48		3	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
3	48		3	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
4	48		3	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		3	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

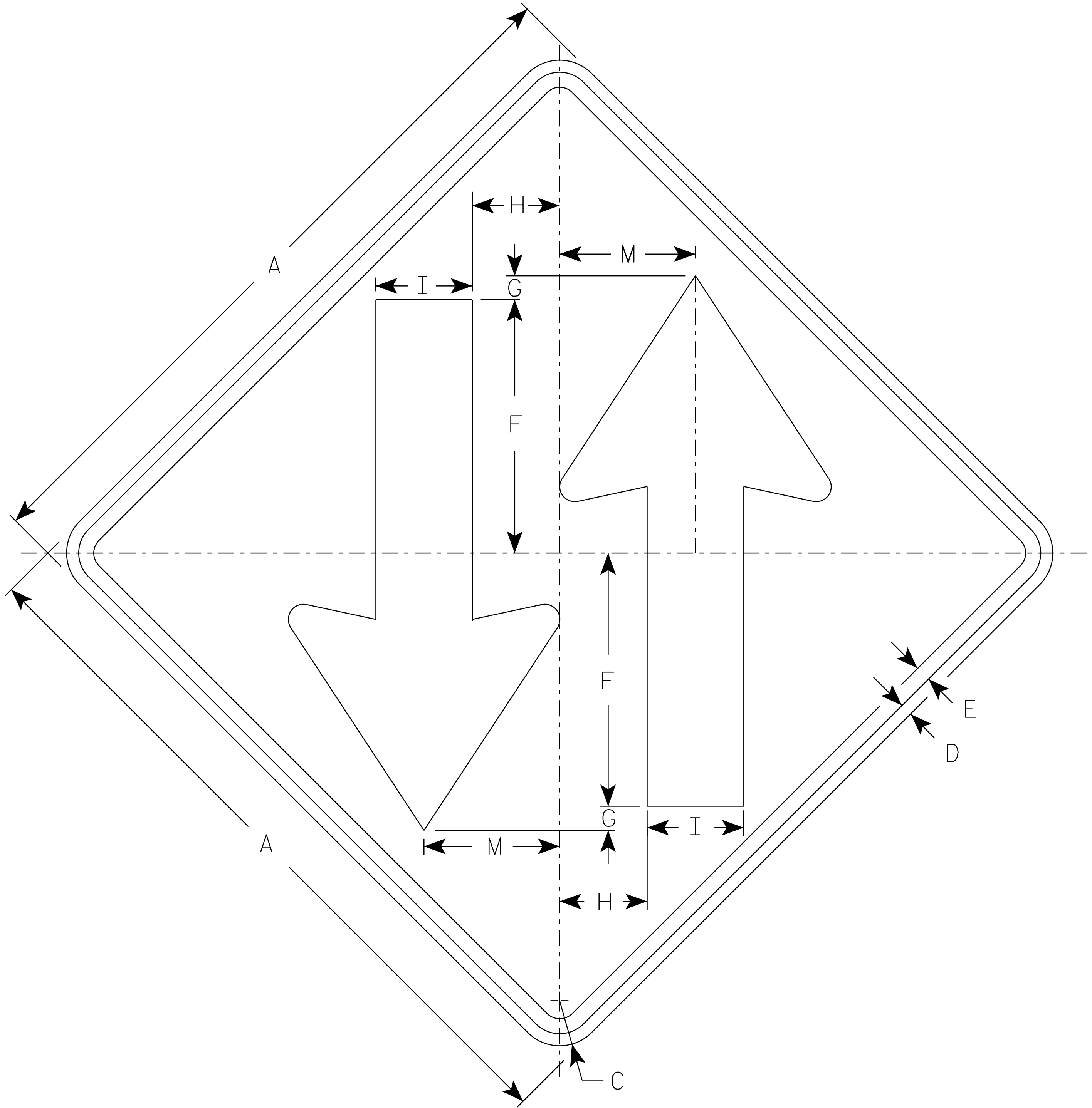
STANDARD SIGN
W04-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/2024 PLATE NO. W04-1.3

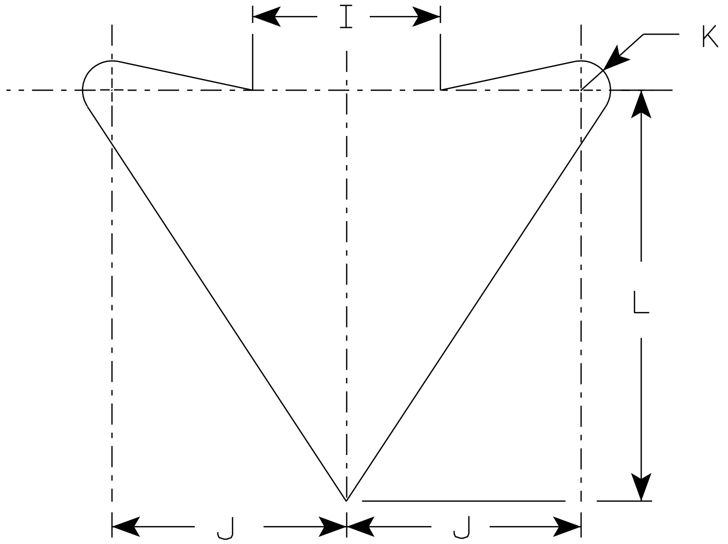
PROJECT NO: HWY: COUNTY: SHEET NO: 151 E



W06-3

NOTES

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



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	36		2 1/4	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

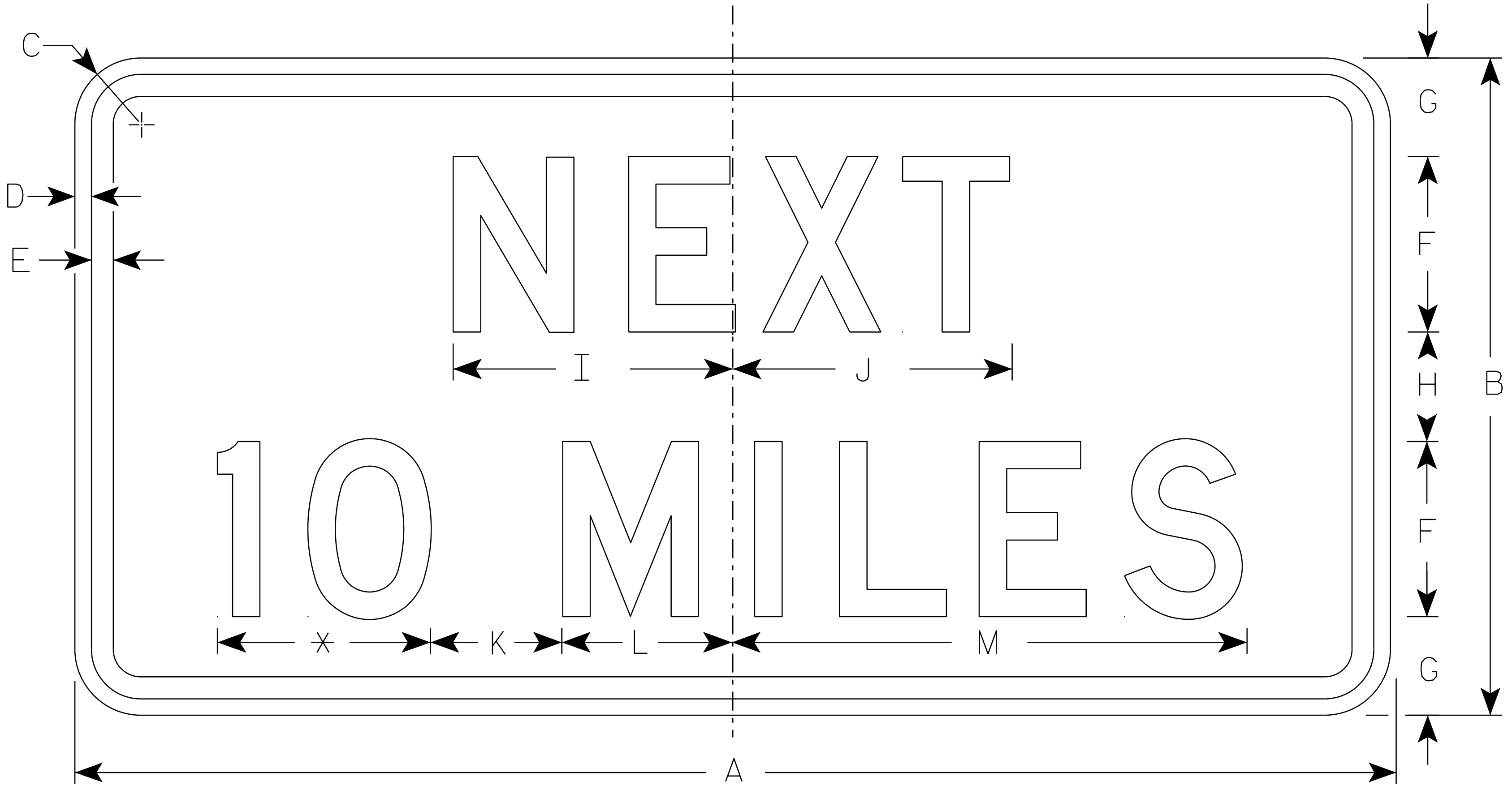
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/30/2024 PLATE NO. W06-3.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 152 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to the nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance.



W057-51

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	5	2 3/4	2 1/2	7 7/8	8	5	4 1/8	15 3/8														4.5
2S	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
2M	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
3	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
4	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0

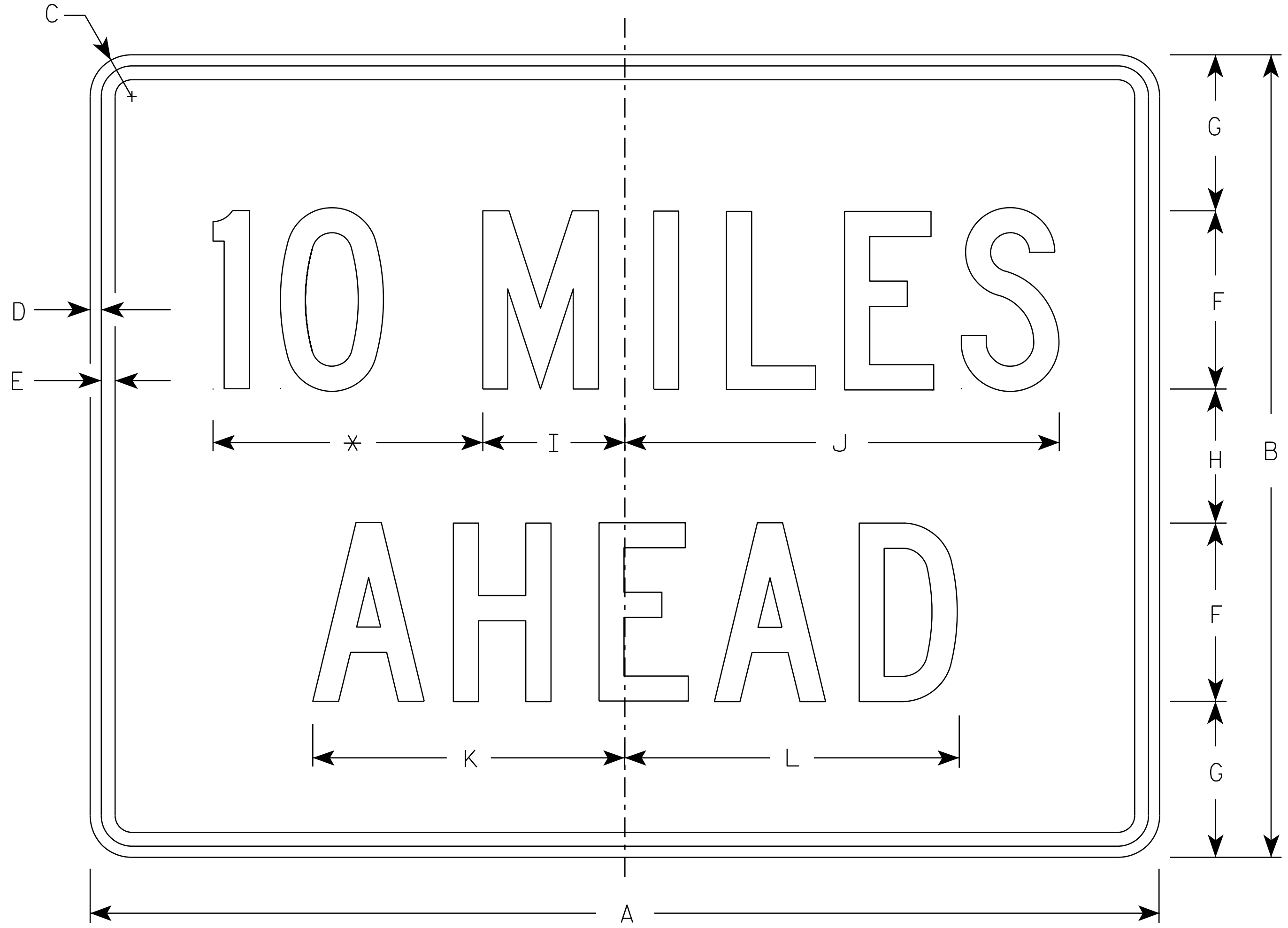
STANDARD SIGN
W057-51

WISCONSIN DEPT OF TRANSPORTATION

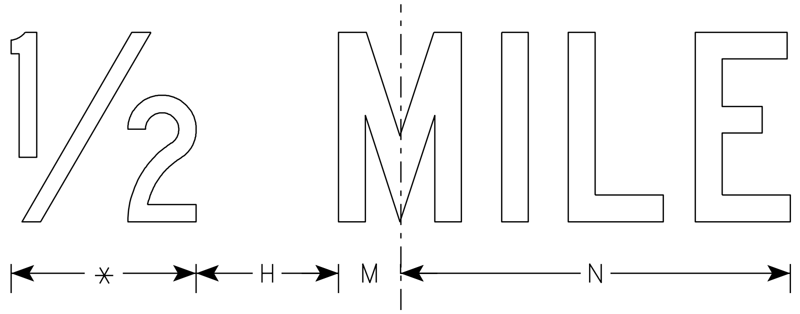
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W057-51.4

PROJECT NO: HWY: COUNTY: SHEET NO: 153 E



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/2	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W057-52.3

PROJECT NO: HWY: COUNTY: SHEET NO: 154 E

DIVISION - STH 29 MAINLINE

STATION	DISTANCE	AREA (SF) CUT NOTE 1	AREA (SF) FILL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 2	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25
9576+08.01	0.00	120.13	0.00	0	0	0	0
9577+00.00	91.99	144.75	1.10	451	2	451	3
9578+00.00	100.00	128.20	0.00	505	2	956	5
9579+00.00	100.00	139.46	6.06	496	11	1,452	19
9580+00.00	100.00	146.33	5.92	529	22	1,981	46
9581+00.00	100.00	137.32	0.27	525	11	2,506	60
9582+00.00	100.00	128.55	0.00	492	1	2,998	61
9583+00.00	100.00	120.17	0.00	461	0	3,459	61
9583+02.45	2.45	126.54	1.24	11	0	3,470	61
9584+00.00	97.55	125.32	1.67	455	5	3,925	68
9585+00.00	100.00	131.56	0.45	476	4	4,401	73
9586+00.00	100.00	136.10	0.20	496	1	4,897	74
9586+59.85	59.85	132.34	0.95	298	1	5,195	75
9587+00.00	40.15	129.88	0.00	195	1	5,390	76
9588+00.00	100.00	129.66	0.00	481	0	5,871	76
9589+00.00	100.00	124.65	0.00	471	0	6,342	76
9590+00.00	100.00	118.63	0.00	451	0	6,793	76
9591+00.00	100.00	114.85	0.21	432	0	7,225	76
9592+00.00	100.00	115.02	0.92	426	2	7,651	79
9593+00.00	100.00	118.74	0.00	433	2	8,084	81
9594+00.00	100.00	117.12	0.00	437	0	8,521	81
9595+00.00	100.00	112.78	2.73	426	5	8,947	88
9595+70.97	70.97	106.14	13.99	288	22	9,235	115
9596+00.00	29.03	108.33	0.00	115	8	9,350	125
9597+00.00	100.00	110.46	0.38	405	1	9,755	126
9598+00.00	100.00	114.80	1.10	417	3	10,172	130
9599+00.00	100.00	115.92	0.43	427	3	10,599	134
9600+00.00	100.00	116.25	0.16	430	1	11,029	135
9601+00.00	100.00	119.04	0.00	436	0	11,465	135
9602+00.00	100.00	115.77	0.20	435	0	11,900	135
9603+00.00	100.00	114.41	0.00	426	0	12,326	135
9604+00.00	100.00	118.54	0.00	431	0	12,757	135
9605+00.00	100.00	113.15	0.00	429	0	13,186	135
9606+00.00	100.00	111.85	0.00	417	0	13,603	135
9607+00.00	100.00	108.62	0.12	408	0	14,011	135
9607+30.27	30.27	114.35	0.67	125	0	14,136	135
9607+86.17	55.90	122.27	0.11	245	1	14,381	136
9608+00.00	13.83	101.43	0.00	57	0	14,438	136
9608+23.29	23.29	101.35	0.00	87	0	14,525	136
9608+60.19	36.90	122.81	0.00	153	0	14,678	136
9609+00.00	39.81	113.03	3.98	174	3	14,852	140
9609+96.78	96.78	112.26	0.21	404	8	15,256	150
9610+00.00	3.22	108.48	0.08	13	0	15,269	150
9611+00.00	100.00	110.80	0.06	406	0	15,675	150
9612+00.00	100.00	116.28	0.00	421	0	16,096	150
9613+00.00	100.00	115.81	0.08	430	0	16,526	150
9614+00.00	100.00	120.19	0.22	437	1	16,963	151
9615+00.00	100.00	122.61	0.00	450	0	17,413	151
9616+00.00	100.00	119.43	0.00	448	0	17,861	151
9617+00.00	100.00	123.51	0.00	450	0	18,311	151
9618+00.00	100.00	125.98	0.00	462	0	18,773	151
9619+00.00	100.00	127.73	0.00	470	0	19,243	151
9620+00.00	100.00	128.04	0.00	474	0	19,717	151
9621+00.00	100.00	126.21	0.00	471	0	20,188	151
9622+00.00	100.00	126.06	0.00	467	0	20,655	151

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

DIVISION - STH 29 MAINLINE

STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)	
		CUT NOTE 1	FILL NOTE 2	CUT NOTE 1	FILL NOTE 2	CUT 1.00 NOTE 1	EXPANDED FILL 1.25
9623+00.00	100.00	128.11	0.00	471	0	21,126	151
9624+00.00	100.00	124.67	0.00	468	0	21,594	151
9625+00.00	100.00	119.70	0.00	453	0	22,047	151
9626+00.00	100.00	120.81	0.00	445	0	22,492	151
9627+00.00	100.00	121.17	0.01	448	0	22,940	151
9628+00.00	100.00	120.37	0.11	447	0	23,387	151
9629+00.00	100.00	124.17	0.01	453	0	23,840	151
9630+00.00	100.00	132.34	0.00	475	0	24,315	151
9631+00.00	100.00	142.97	0.00	510	0	24,825	151
9632+00.00	100.00	138.86	2.65	522	5	25,347	158
9633+00.00	100.00	112.10	0.38	465	6	25,812	165
9634+00.00	100.00	121.34	0.00	432	1	26,244	166
9635+00.00	100.00	117.08	1.32	442	2	26,686	169
9635+62.27	62.27	116.36	0.00	269	2	26,955	171
9636+00.00	37.73	120.21	0.00	165	0	27,120	171
9637+00.00	100.00	123.61	0.00	452	0	27,572	171
9638+00.00	100.00	119.48	0.00	450	0	28,022	171
9639+00.00	100.00	118.24	0.00	440	0	28,462	171
9640+00.00	100.00	116.59	0.01	435	0	28,897	171
9641+00.00	100.00	114.07	0.04	427	0	29,324	171
9642+00.00	100.00	113.92	0.07	422	0	29,746	171
9643+00.00	100.00	117.63	0.05	429	0	30,175	171
9644+00.00	100.00	117.48	0.24	435	1	30,610	173
9644+60.20	60.20	109.07	0.00	253	0	30,863	173
9645+00.00	39.80	114.61	0.00	165	0	31,028	173
9646+00.00	100.00	122.25	0.00	439	0	31,467	173
9647+00.00	100.00	118.37	0.01	446	0	31,913	173
9648+00.00	100.00	117.51	0.12	437	0	32,350	173
9649+00.00	100.00	118.79	0.00	438	0	32,788	173
9650+00.00	100.00	119.71	0.02	442	0	33,230	173
9651+00.00	100.00	115.61	0.21	436	0	33,666	173
9652+00.00	100.00	117.89	0.25	432	1	34,098	174
9653+00.00	100.00	115.38	1.10	432	2	34,530	176
9654+00.00	100.00	115.75	1.40	428	5	34,958	183
9654+47.24	47.24	122.41	5.51	208	6	35,166	190
9655+00.00	52.76	124.44	1.76	241	7	35,407	199
9656+00.00	100.00	130.39	2.10	472	7	35,879	208
9657+00.00	100.00	121.55	0.10	467	4	36,346	213
9658+00.00	100.00	129.24	6.31	464	12	36,810	228
9658+62.24	62.24	125.29	3.48	293	11	37,103	241
9659+00.00	37.76	119.15	0.64	171	3	37,274	245
9660+00.00	100.00	111.22	0.54	427	2	37,701	248
9661+00.00	100.00	112.96	0.17	415	1	38,116	249
9662+00.00	100.00	115.73	0.00	424	0	38,540	249
9663+00.00	100.00	123.98	0.00	444	0	38,984	249
9664+00.00	100.00	130.64	0.00	472	0	39,456	249
9665+00.00	100.00	125.79	0.03	475	0	39,931	249
9666+00.00	100.00	125.91	0.00	466	0	40,397	249
9667+00.00	100.00	124.22	0.00	463	0	40,860	249
9667+81.56	81.56	118.83	0.00	367	0	41,227	249
9668+00.00	18.44	118.21	0.00	81	0	41,308	249
9669+00.00	100.00	120.01	0.00	441	0	41,749	249
9670+00.00	100.00	121.36	0.00	447	0	42,196	249
9671+00.00	100.00	119.79	0.00	447	0	42,643	249
9672+00.00	100.00	117.07	0.00	439	0	43,082	249

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

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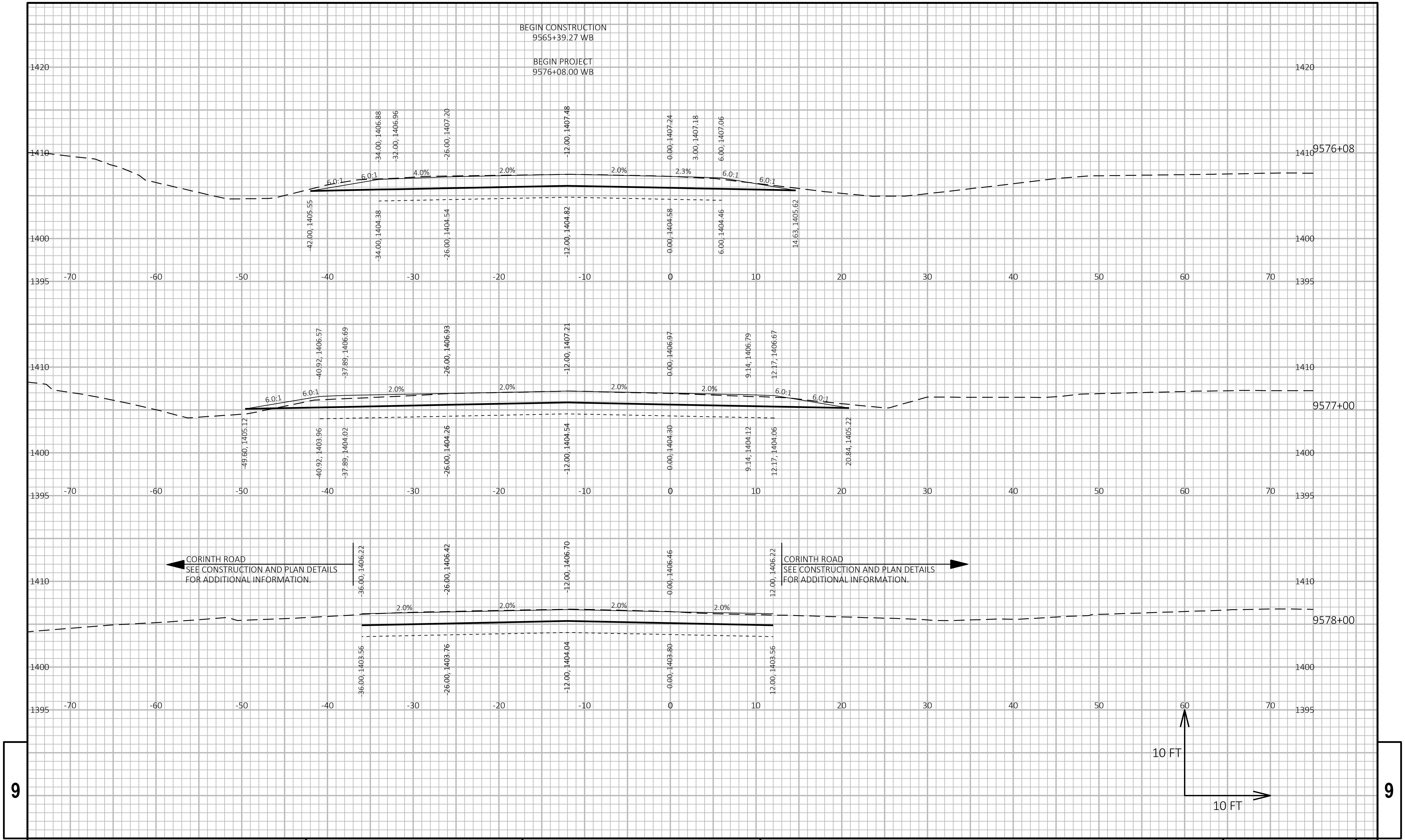
DIVISION - STH 29 MAINLINE

		AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)	
STATION	DISTANCE	CUT NOTE 1	FILL NOTE 2	CUT NOTE 1	FILL NOTE 2	CUT 1.00 NOTE 1	EXPANDED FILL 1.25
9673+00.00	100.00	115.87	0.00	431	0	43,513	249
9674+00.00	100.00	114.55	0.12	427	0	43,940	249
9675+00.00	100.00	115.72	0.76	426	2	44,366	251
9675+37.50	37.50	105.17	0.00	153	1	44,519	253
9675+55.19	17.69	104.90	0.00	69	0	44,588	253
9676+00.00	44.81	113.60	0.27	181	0	44,769	253
9677+00.00	100.00	115.87	0.22	425	1	45,194	254
9678+00.00	100.00	110.17	1.67	419	4	45,613	259
9679+00.00	100.00	107.58	1.41	403	6	46,016	266
9680+00.00	100.00	107.39	2.81	398	8	46,414	276
9681+00.00	100.00	109.66	1.11	402	7	46,816	285
9682+00.00	100.00	106.34	0.40	400	3	47,216	289
9683+00.00	100.00	115.69	0.00	411	1	47,627	290
9684+00.00	100.00	122.56	0.00	441	0	48,068	290
9685+00.00	100.00	125.32	0.00	459	0	48,527	290
9686+00.00	100.00	127.33	0.00	468	0	48,995	290
9687+00.00	100.00	127.05	0.00	471	0	49,466	290
9688+00.00	100.00	126.97	0.00	470	0	49,936	290
9689+00.00	100.00	123.34	0.00	464	0	50,400	290
9690+00.00	100.00	123.90	0.00	458	0	50,858	290
9691+00.00	100.00	121.48	0.01	454	0	51,312	290
9692+00.00	100.00	132.30	2.93	470	5	51,782	296
9693+00.00	100.00	123.72	1.01	474	7	52,256	305
9694+00.00	100.00	118.16	8.79	448	18	52,704	328
9695+00.00	100.00	121.57	4.99	444	26	53,148	360
9696+00.00	100.00	126.13	0.69	459	11	53,607	374
9697+00.00	100.00	130.34	0.61	475	2	54,082	376
9698+00.00	100.00	135.57	0.72	492	2	54,574	379
9699+00.00	100.00	133.88	0.39	499	2	55,073	381
9700+00.00	100.00	133.00	0.19	494	1	55,567	383
9701+00.00	100.00	147.21	0.47	519	1	56,086	384
9702+00.00	100.00	108.69	0.00	474	1	56,560	385
9703+00.00	100.00	176.71	0.10	529	0	57,089	385
9704+00.00	100.00	181.70	0.01	664	0	57,753	385
9705+00.00	100.00	185.67	0.00	680	0	58,433	385
9706+00.00	100.00	188.96	0.00	694	0	59,127	385
9707+00.00	100.00	187.82	0.00	698	0	59,825	385
9708+00.00	100.00	65.82	0.00	470	0	60,295	385
9709+00.00	100.00	60.43	0.00	234	0	60,529	385
9710+00.00	100.00	47.36	0.00	200	0	60,729	385
9711+00.00	100.00	26.65	0.00	137	0	60,866	385
9712+00.00	100.00	20.69	0.00	88.00	0.00	60,954	385
9713+00.00	100.00	17.15	0.00	70	0	61,024	385
9713+67.96	67.96	6.74	0.66	30	1	61,054	386
		COLUMN TOTALS		61,054	308		

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME



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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET	E

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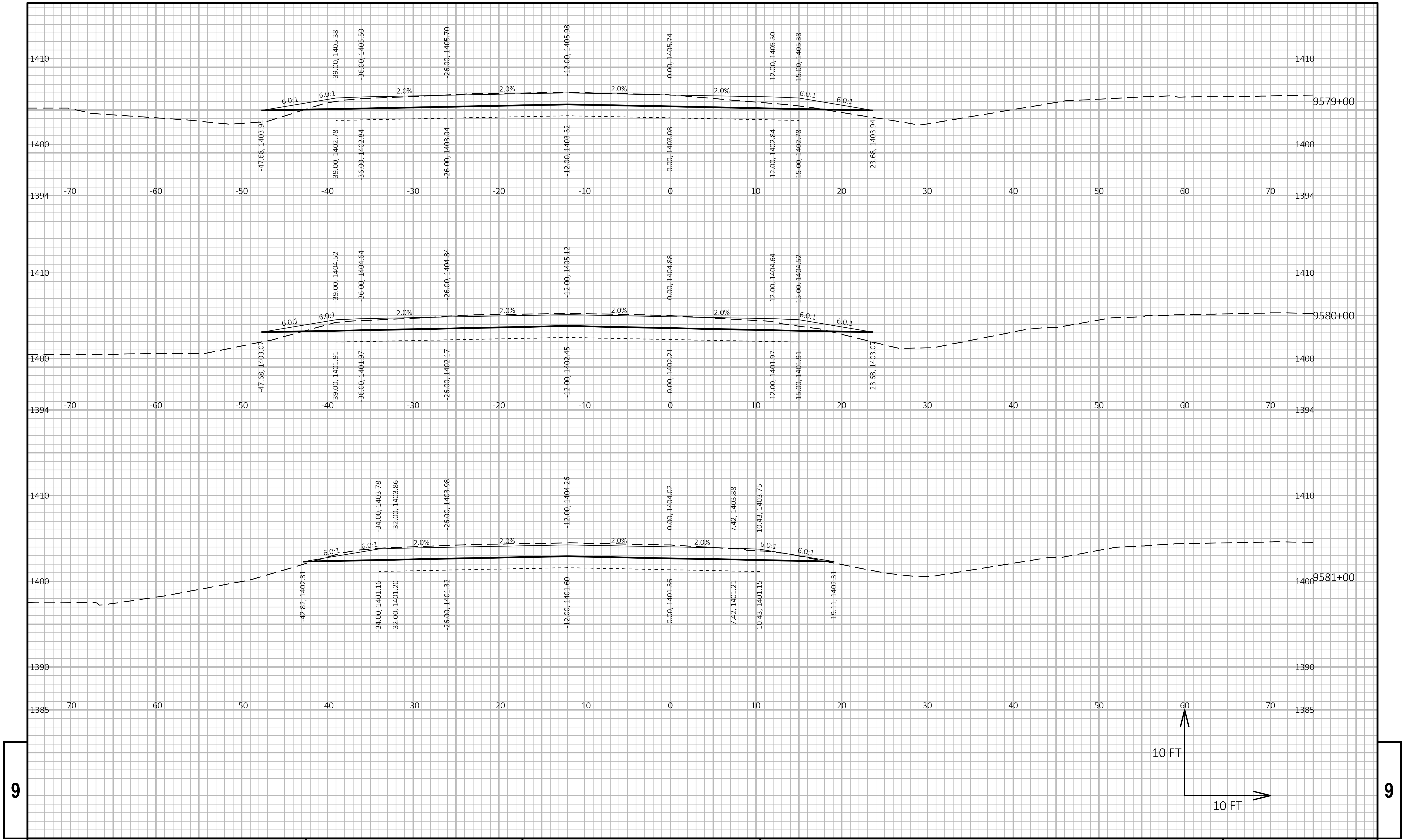
PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1053-07-85

HWY: STH 29

COUNTY: MARATHON

CROSS SECTIONS: STH 29 WB

SHEET

E

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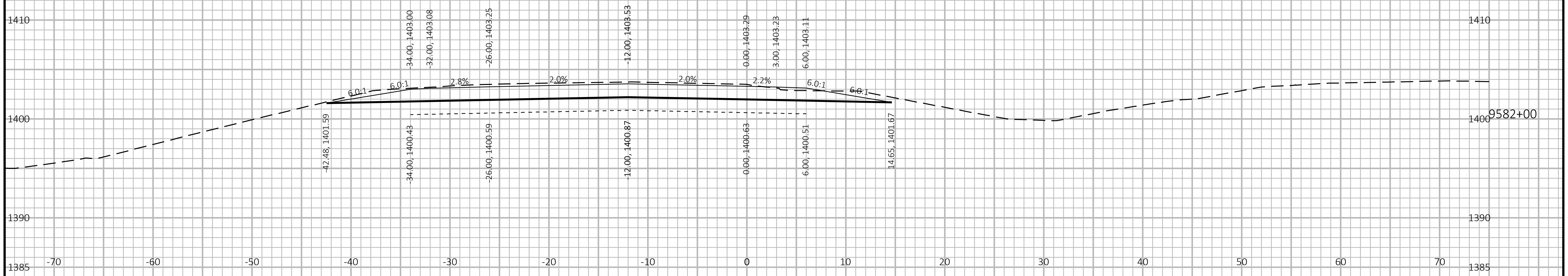
LAYOUT NAME - 090202-xs

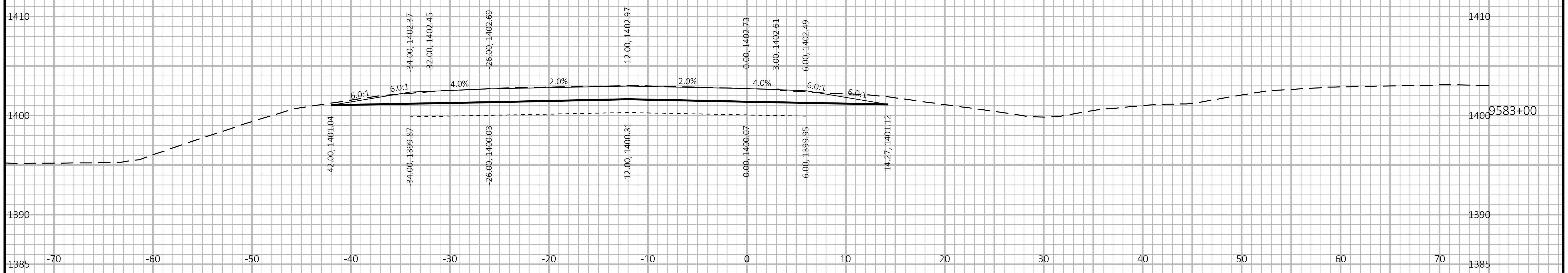
PLOT DATE : 2/19/2026 8:31 AM

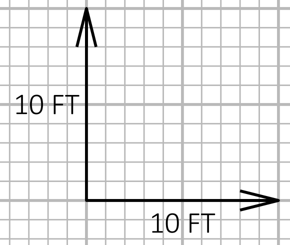
PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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







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PROJECT NO: 1053-07-85

HWY: STH 29

COUNTY: MARATHON

CROSS SECTIONS: STH 29 WB

SHEET

E

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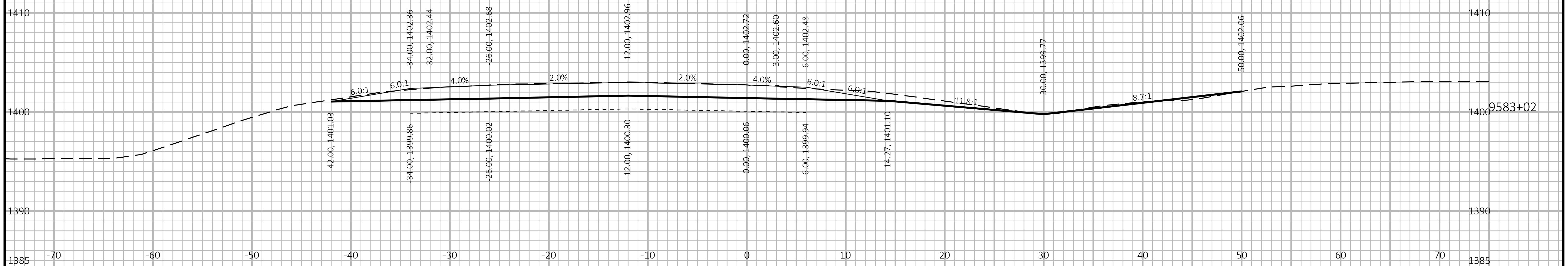
PLOT DATE : 2/19/2026 8:31 AM

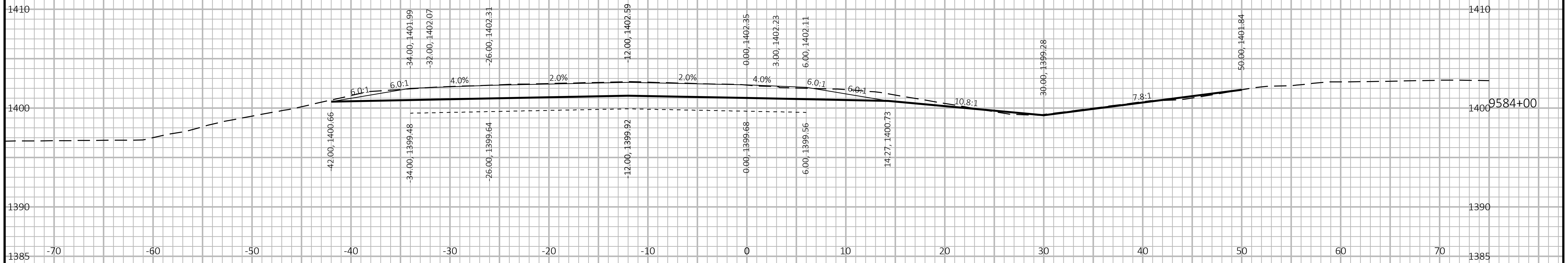
PLOT BY : HABERKORN, DEVEN

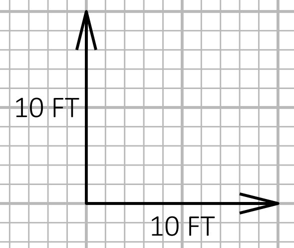
PLOT NAME :

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

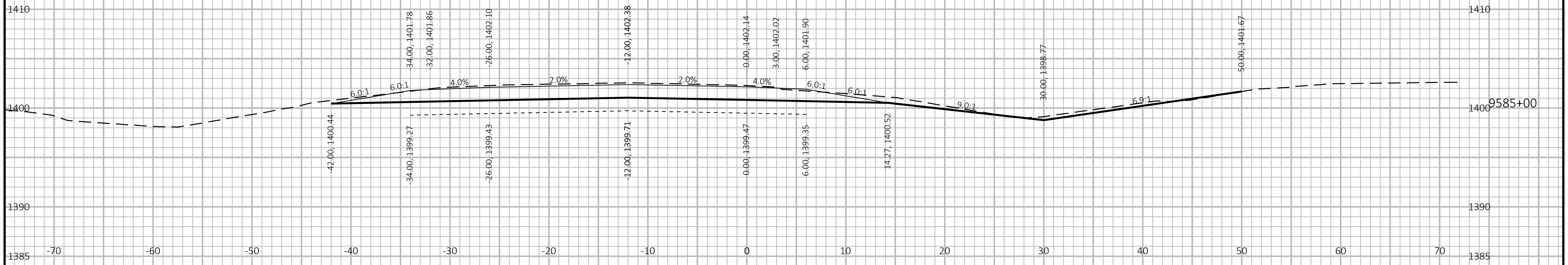
WISDOT/CADDS SHEET 49

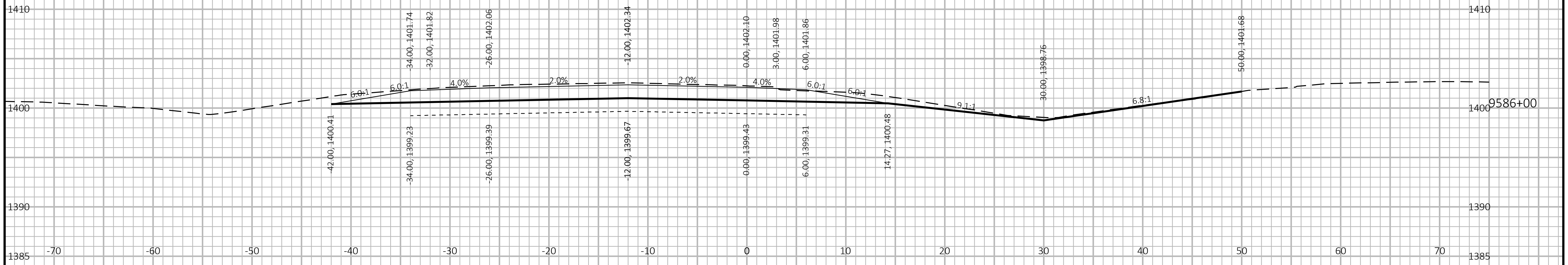


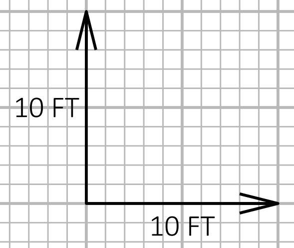




PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 161	E







PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 162	E

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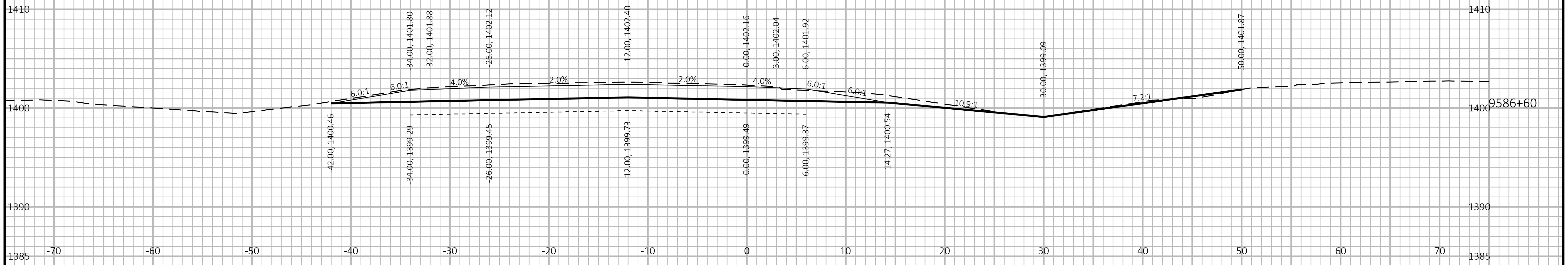
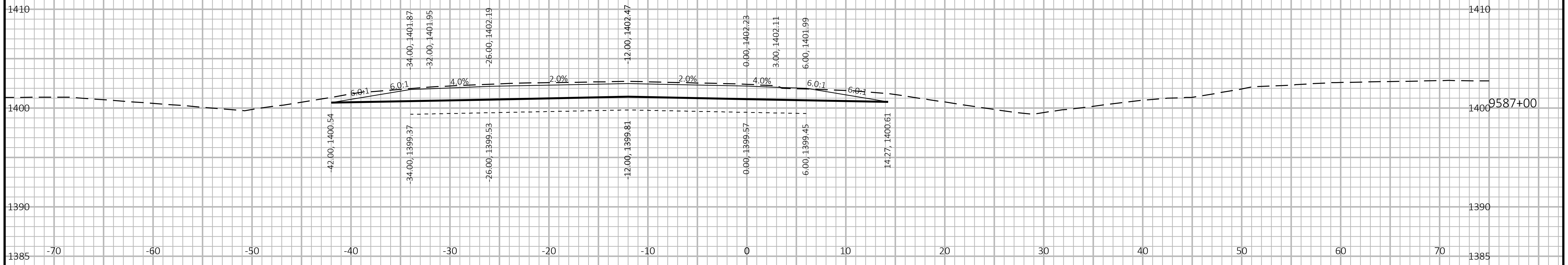
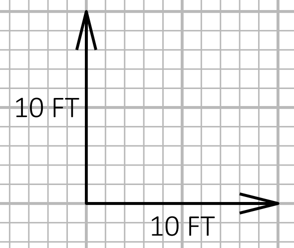
LAYOUT NAME - 090205-xs

PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.







PROJECT NO: 1053-07-85

HWY: STH 29

COUNTY: MARATHON

CROSS SECTIONS: STH 29 WB

SHEET 163

E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG

LAYOUT NAME - 090206-xs

PLOT DATE : 2/19/2026 8:31 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49

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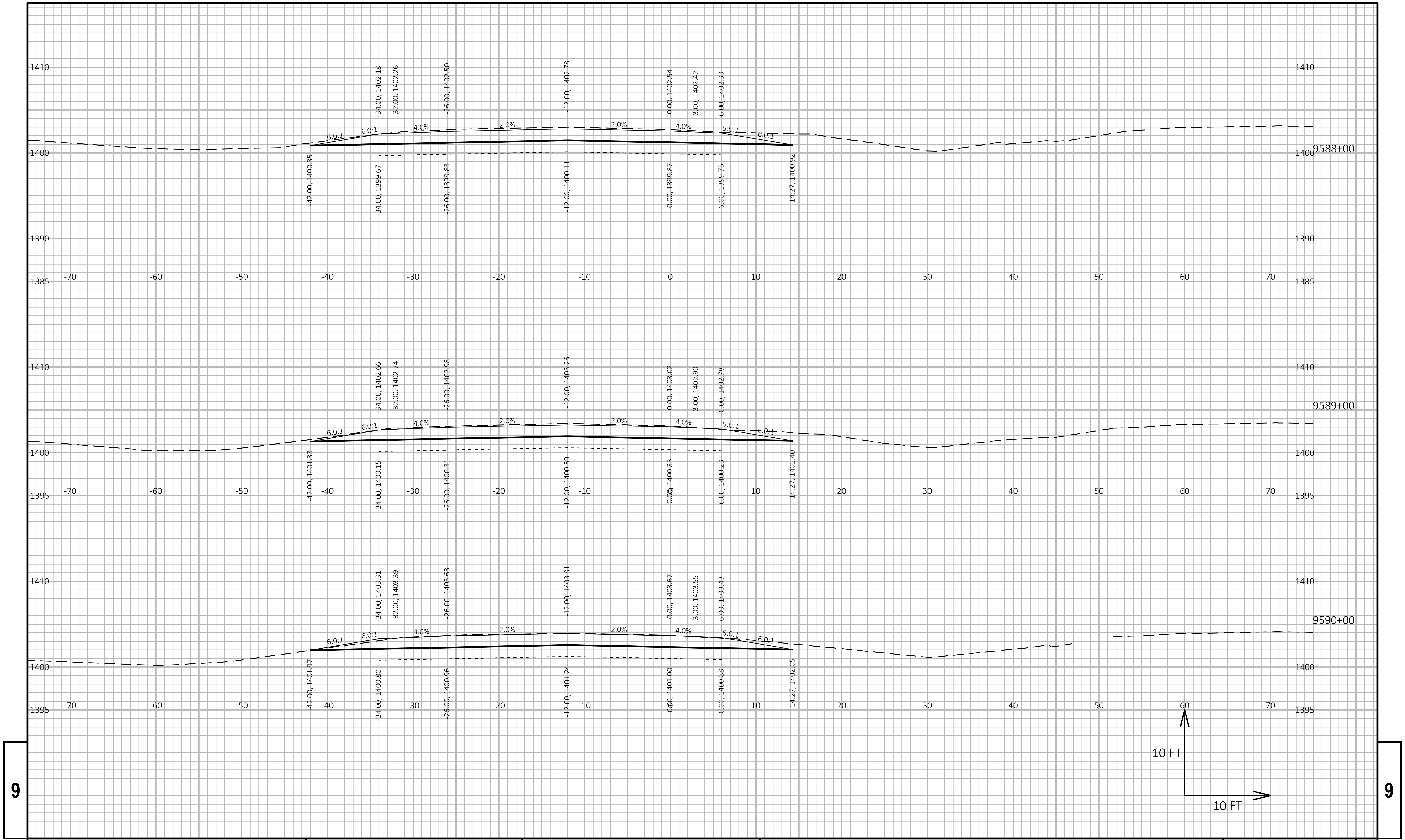

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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 164	E

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LAYOUT NAME - 090207-xs

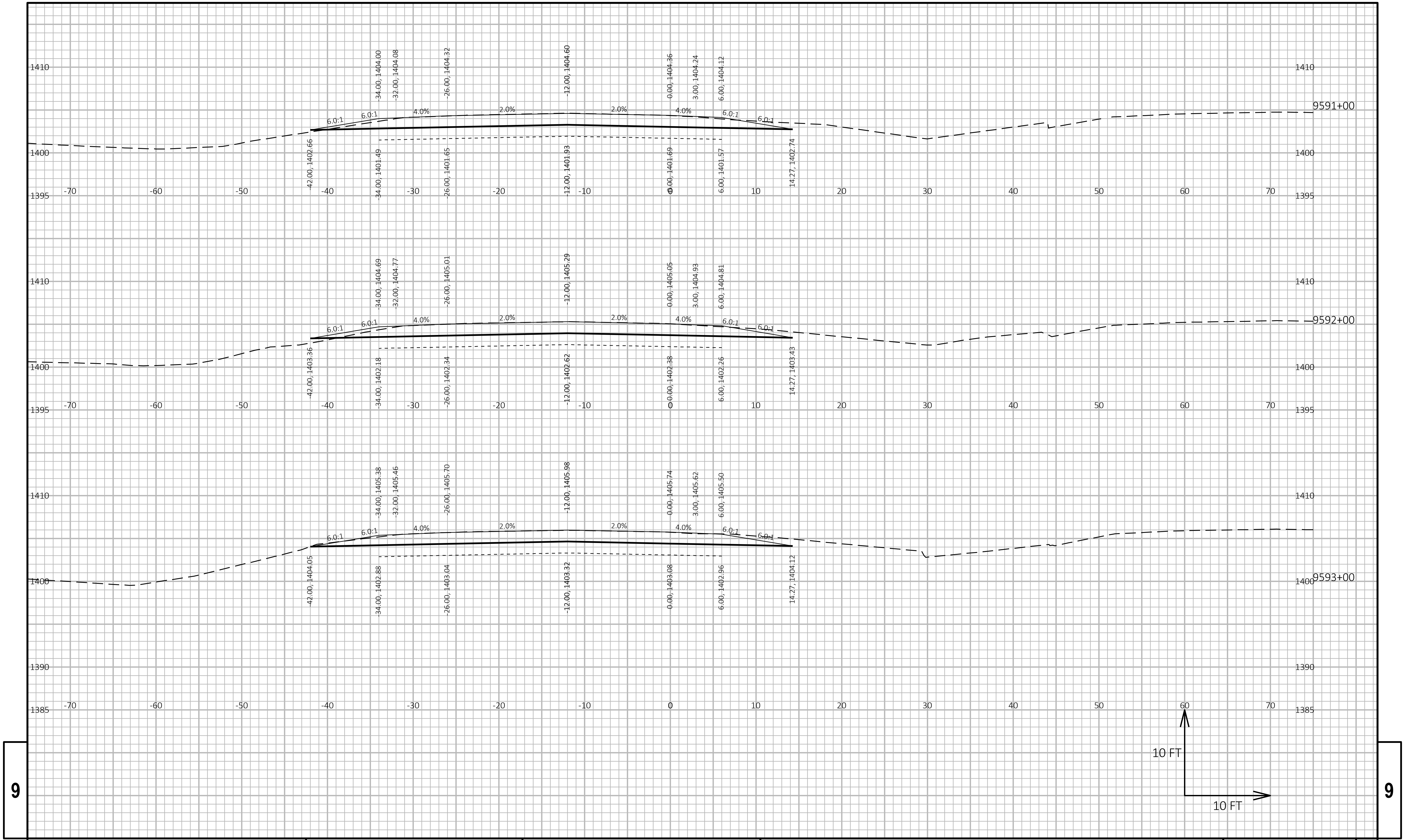
PLOT DATE : 2/19/2026 8:31 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 165 E

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LAYOUT NAME - 090208-xs

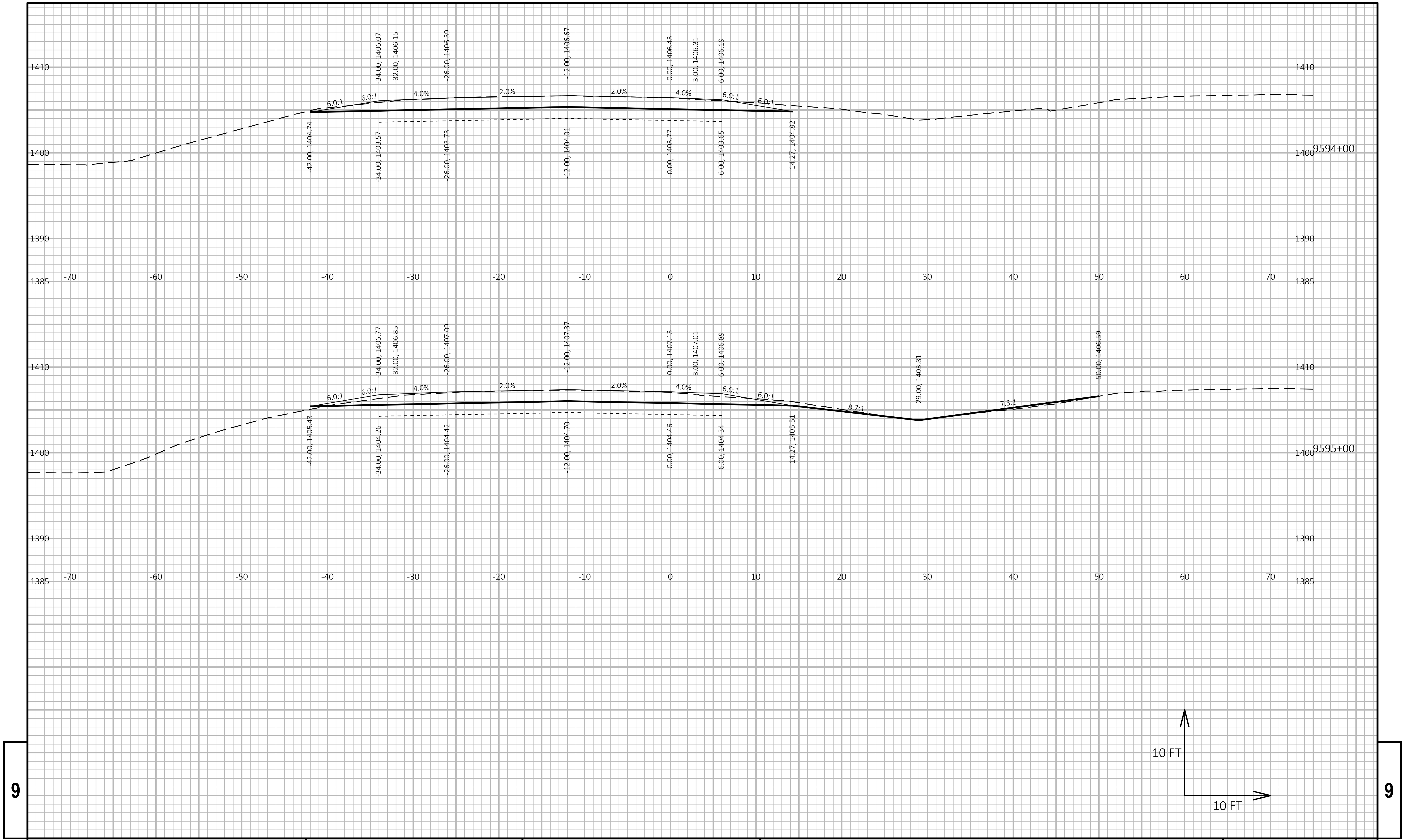
PLOT DATE : 2/19/2026 8:31 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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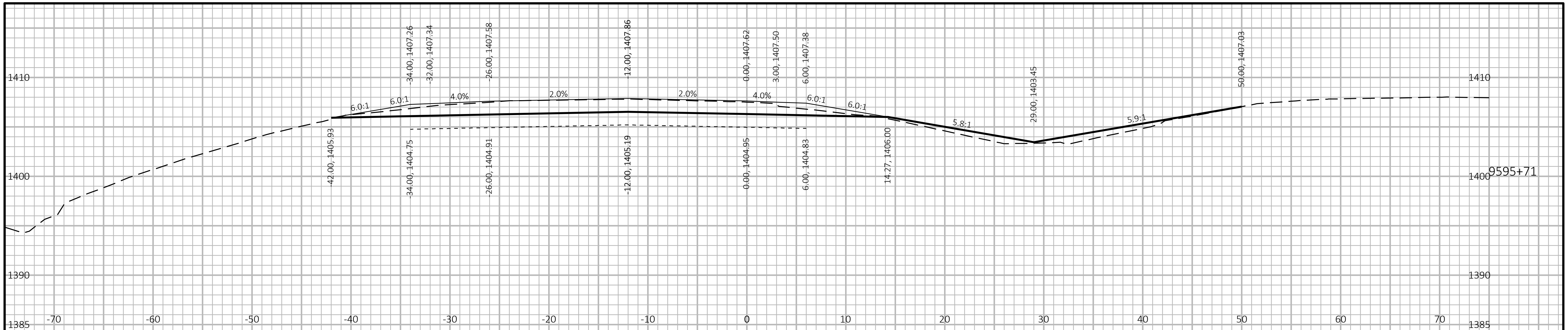
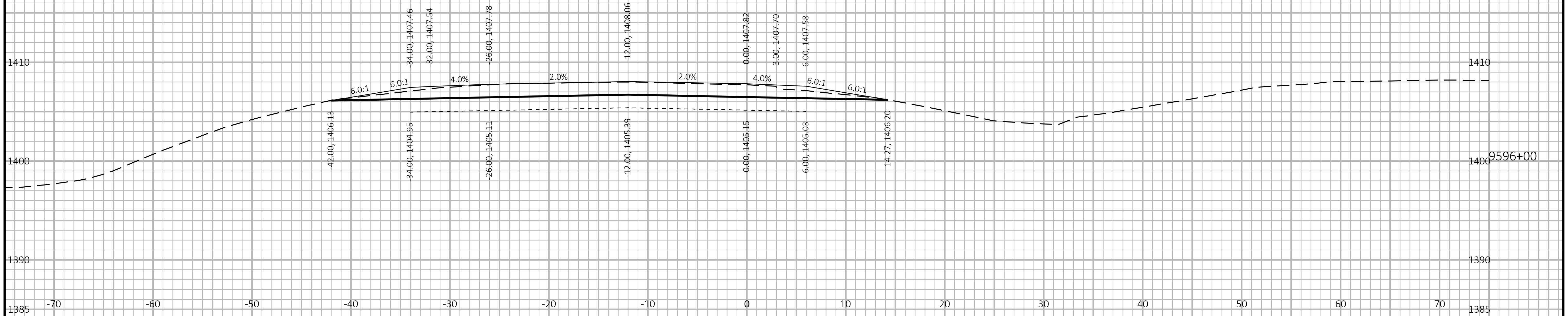
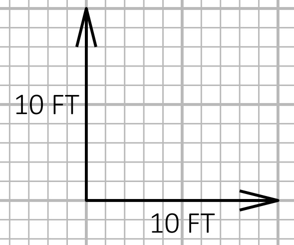
PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 166 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090209-xs
PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49







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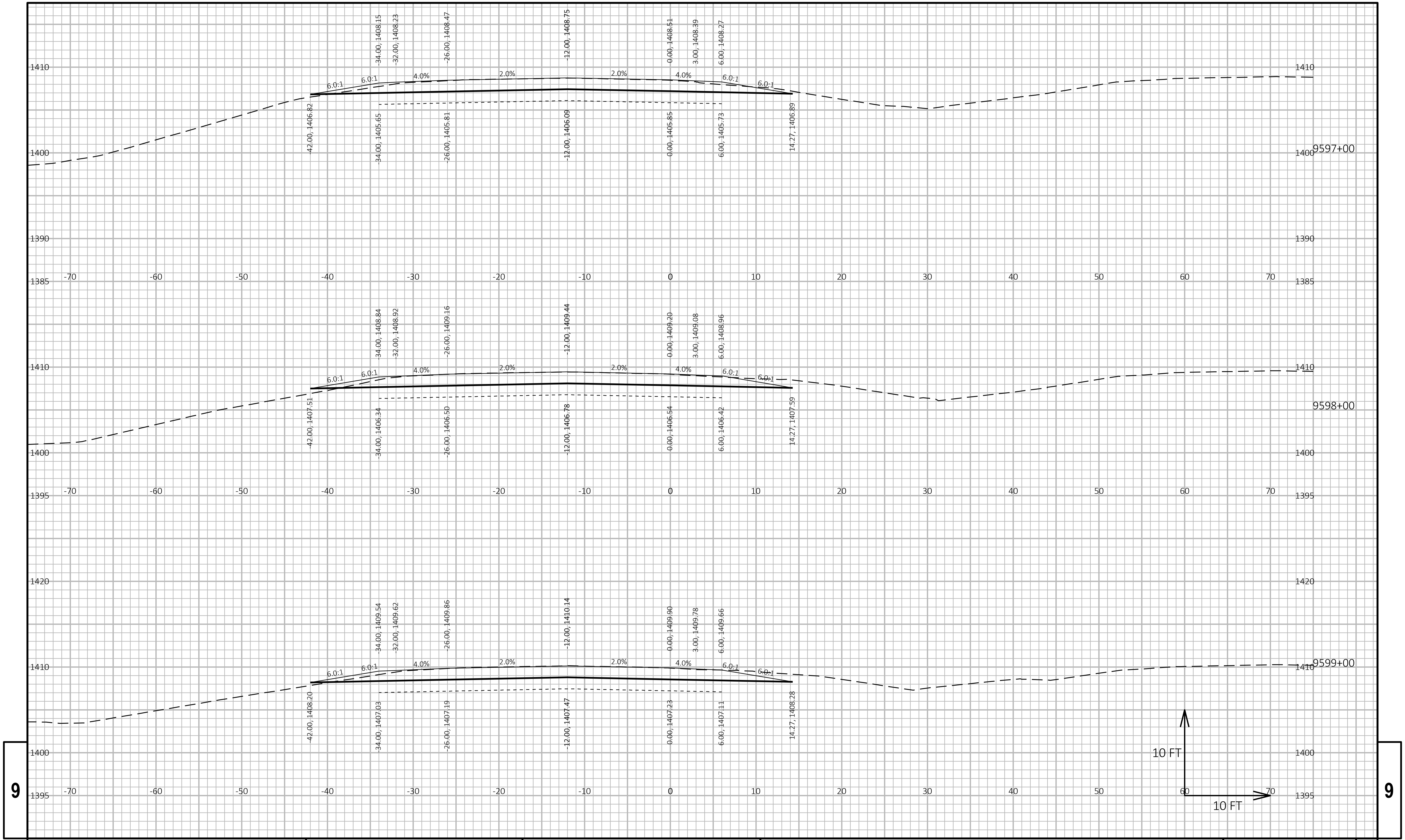
PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 167 | E

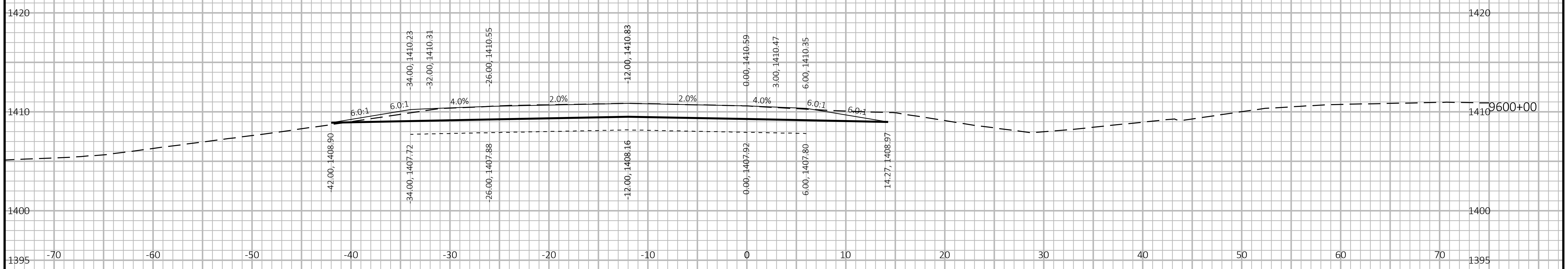
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090210-xs

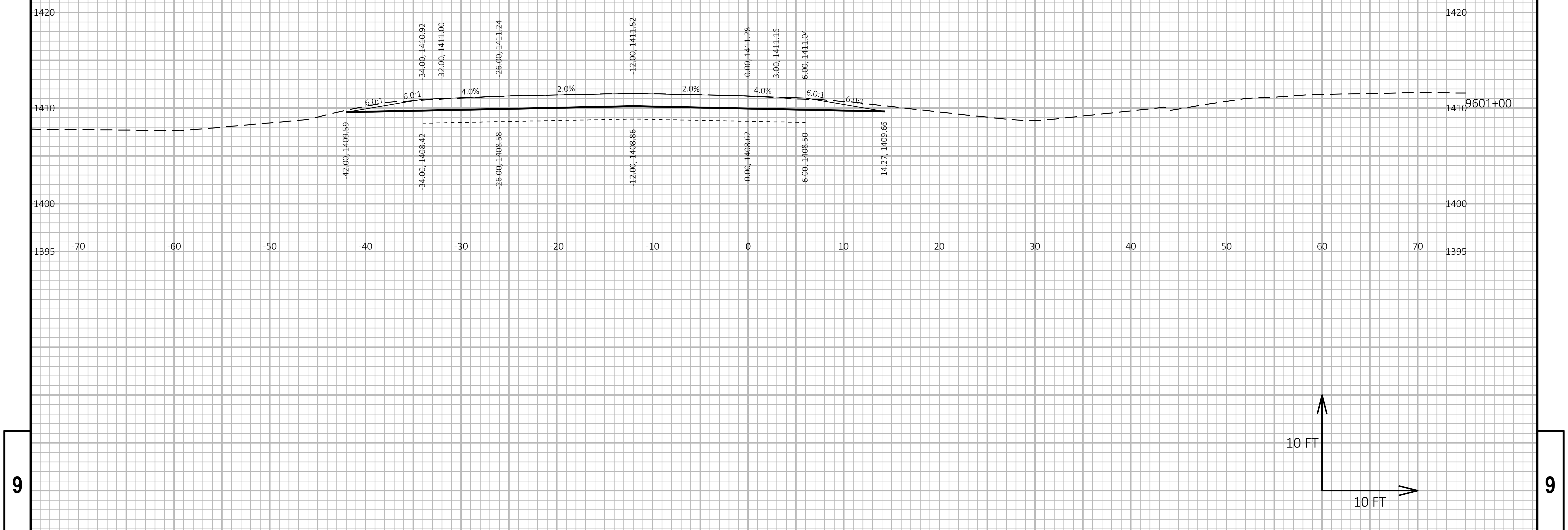
PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 168	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090211-xs
PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49





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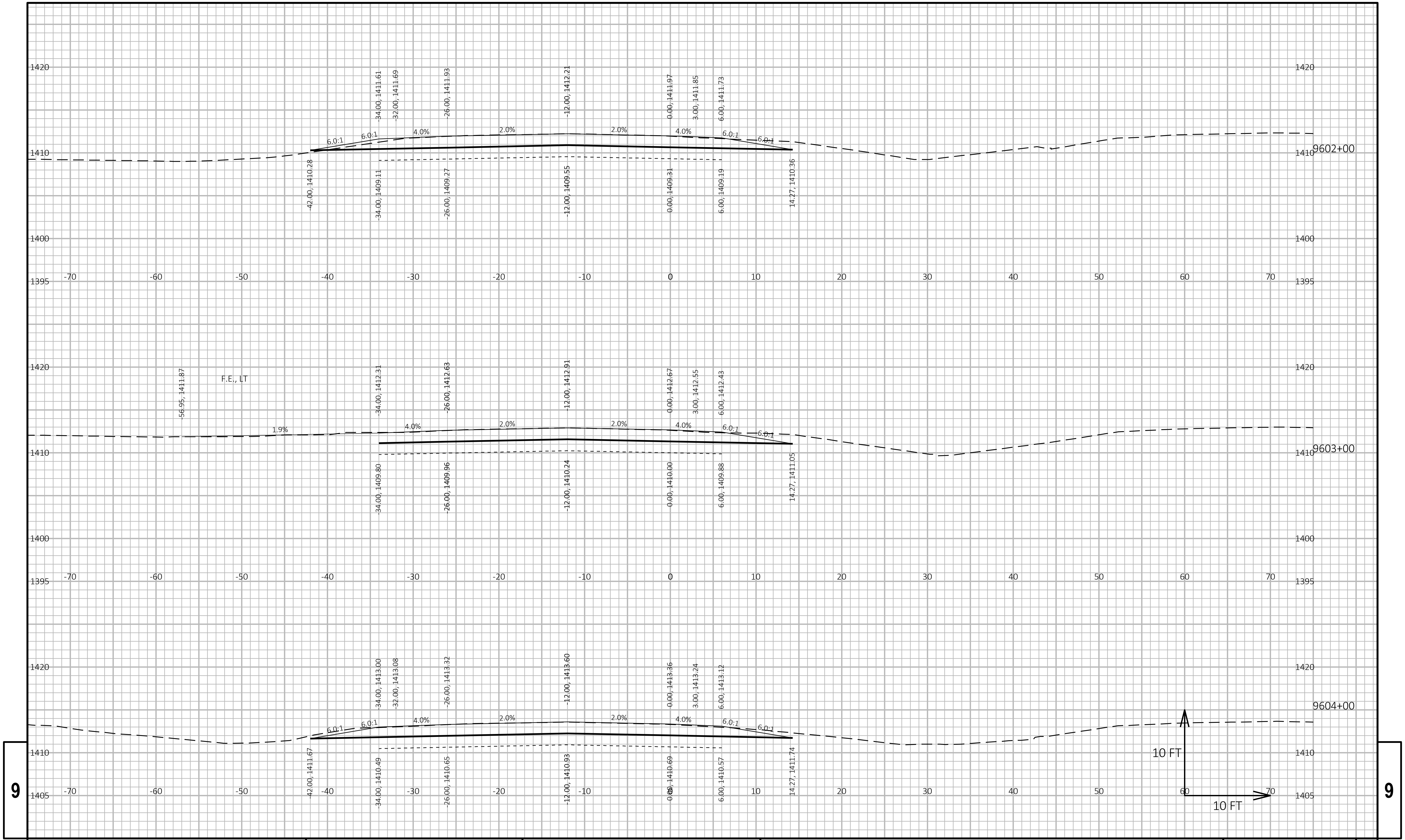
PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 169 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090212-xs

PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 170 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090213-xs

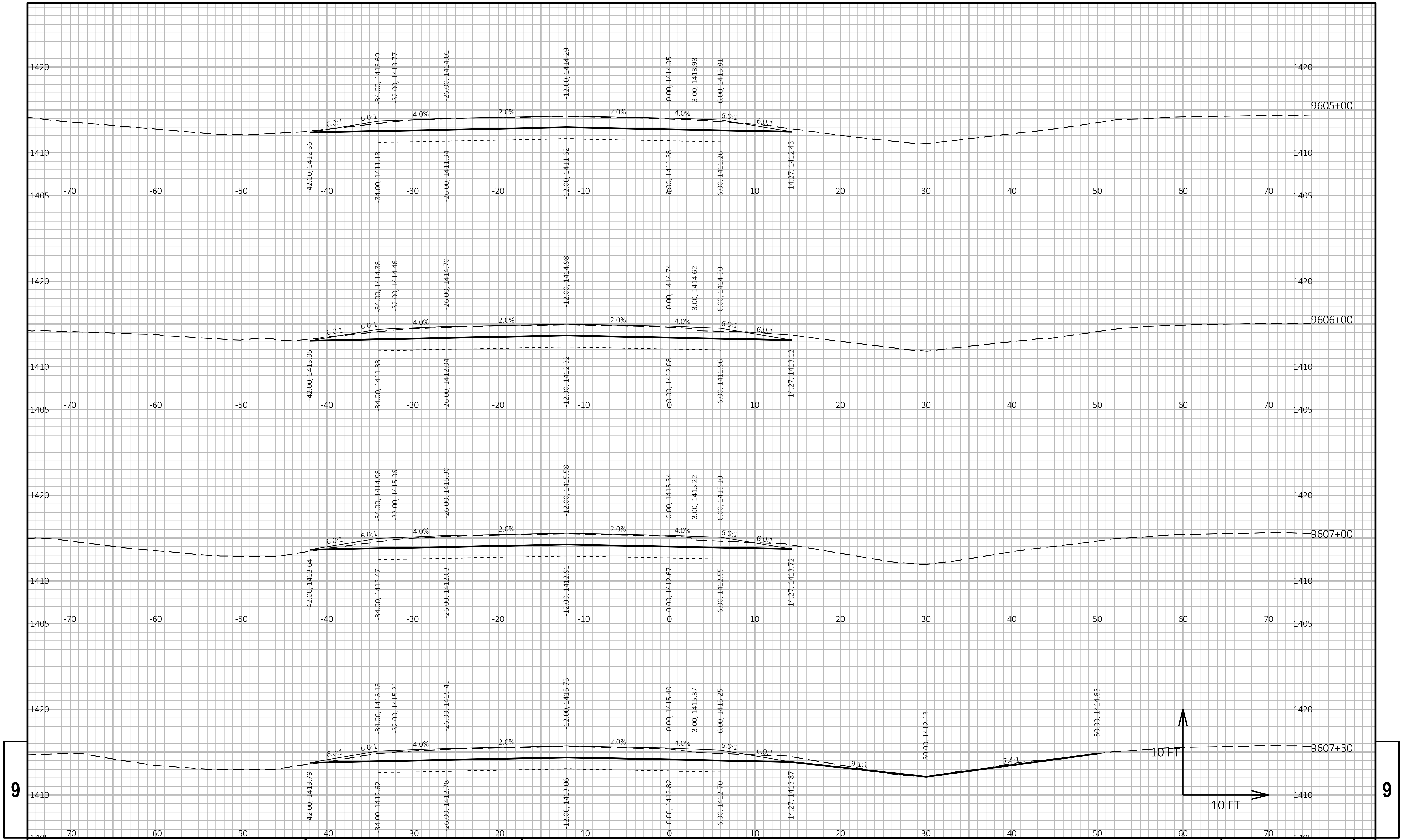
PLOT DATE : 2/19/2026 8:31 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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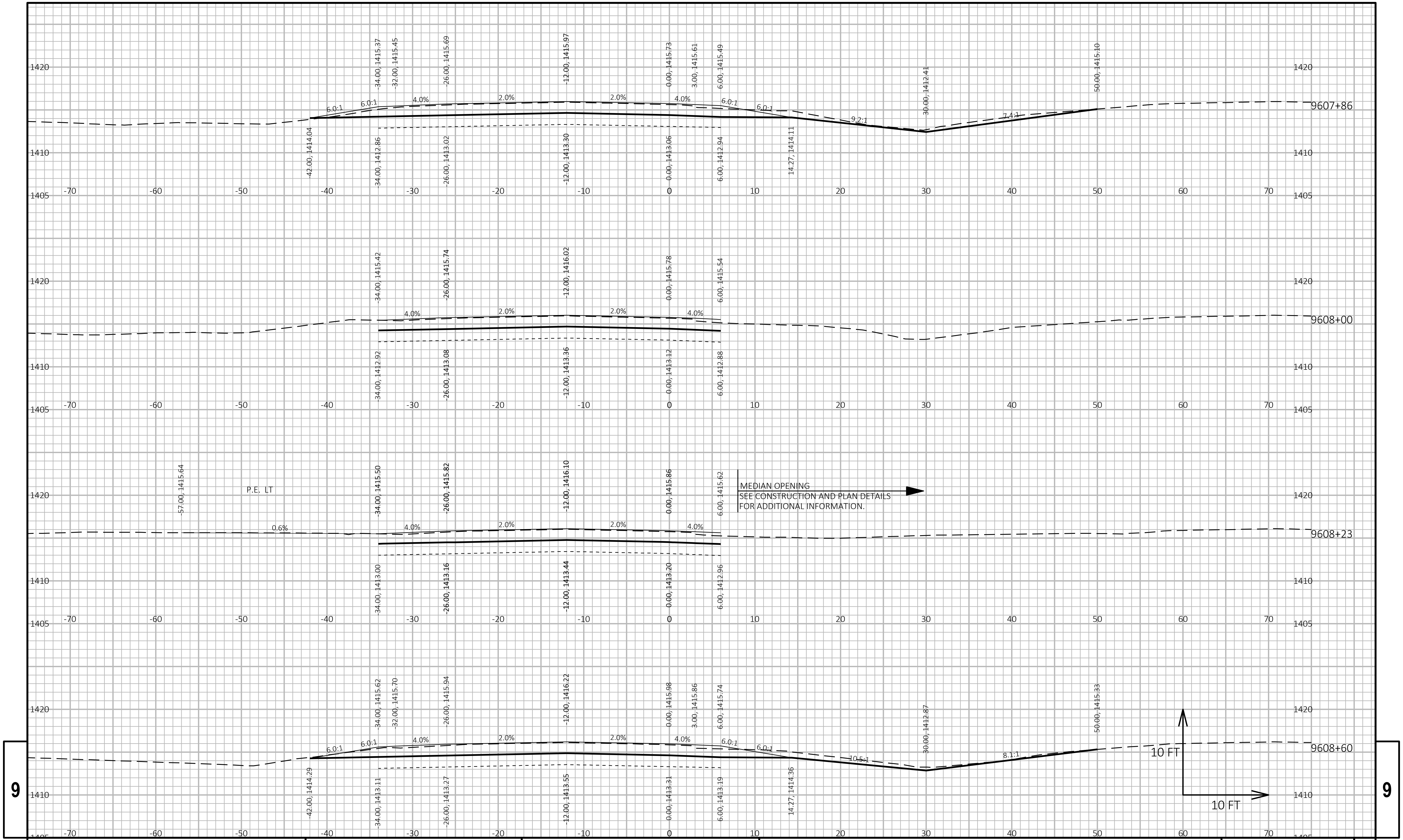
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 171	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090214-xs

PLOT DATE : 2/19/2026 8:31 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 172	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG

LAYOUT NAME - 090215-xs

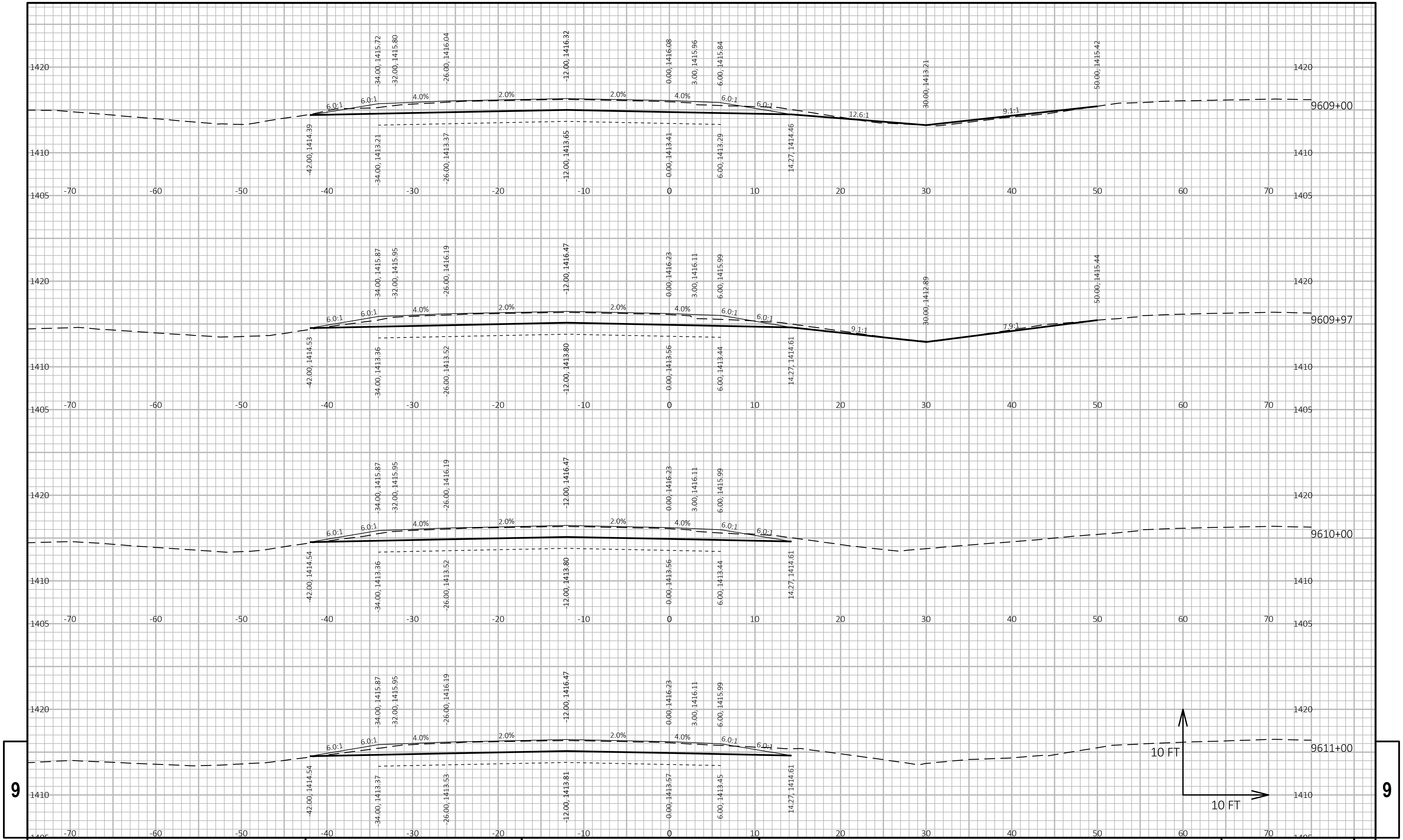
PLOT DATE : 2/19/2026 8:31 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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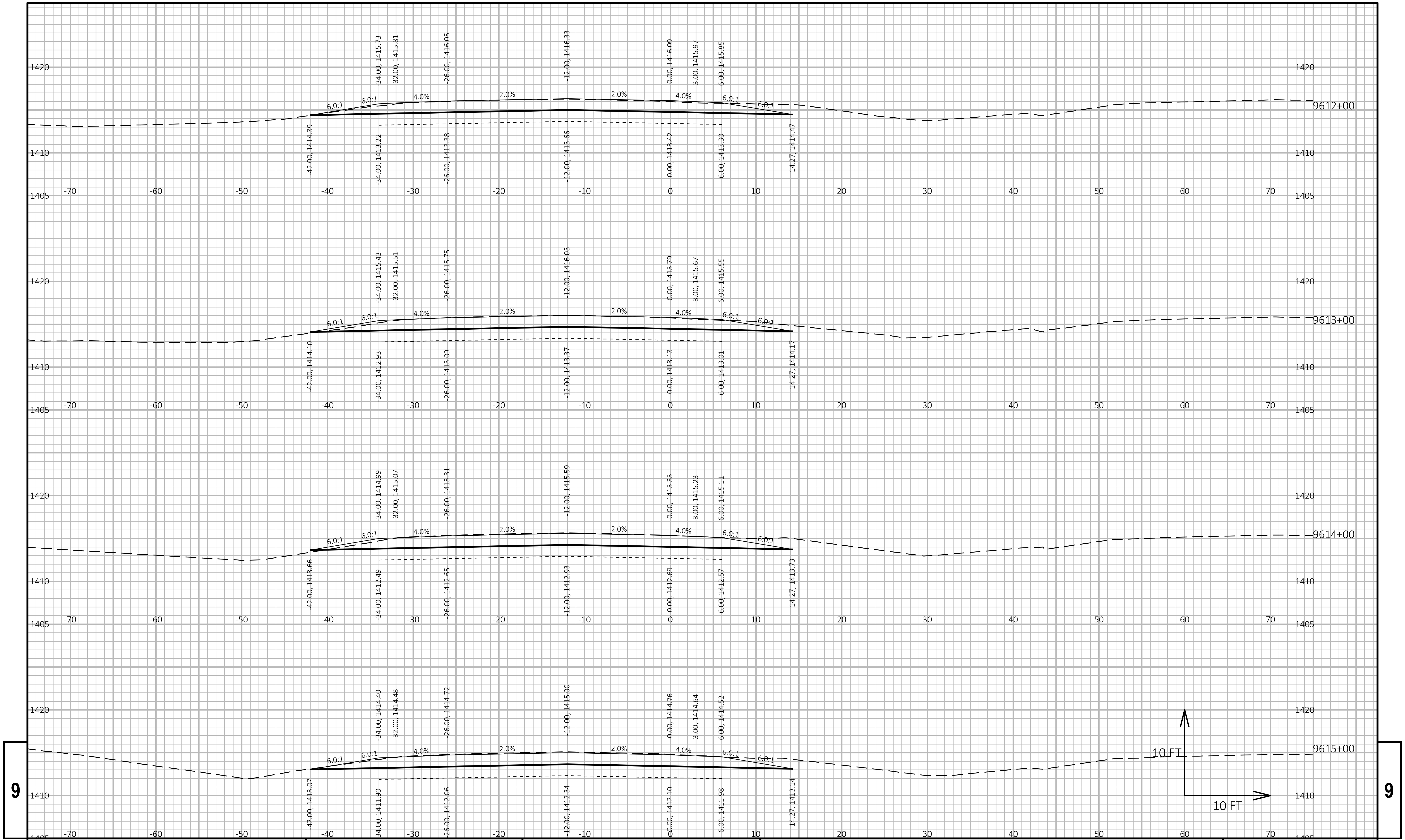
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 173	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090216-xs

PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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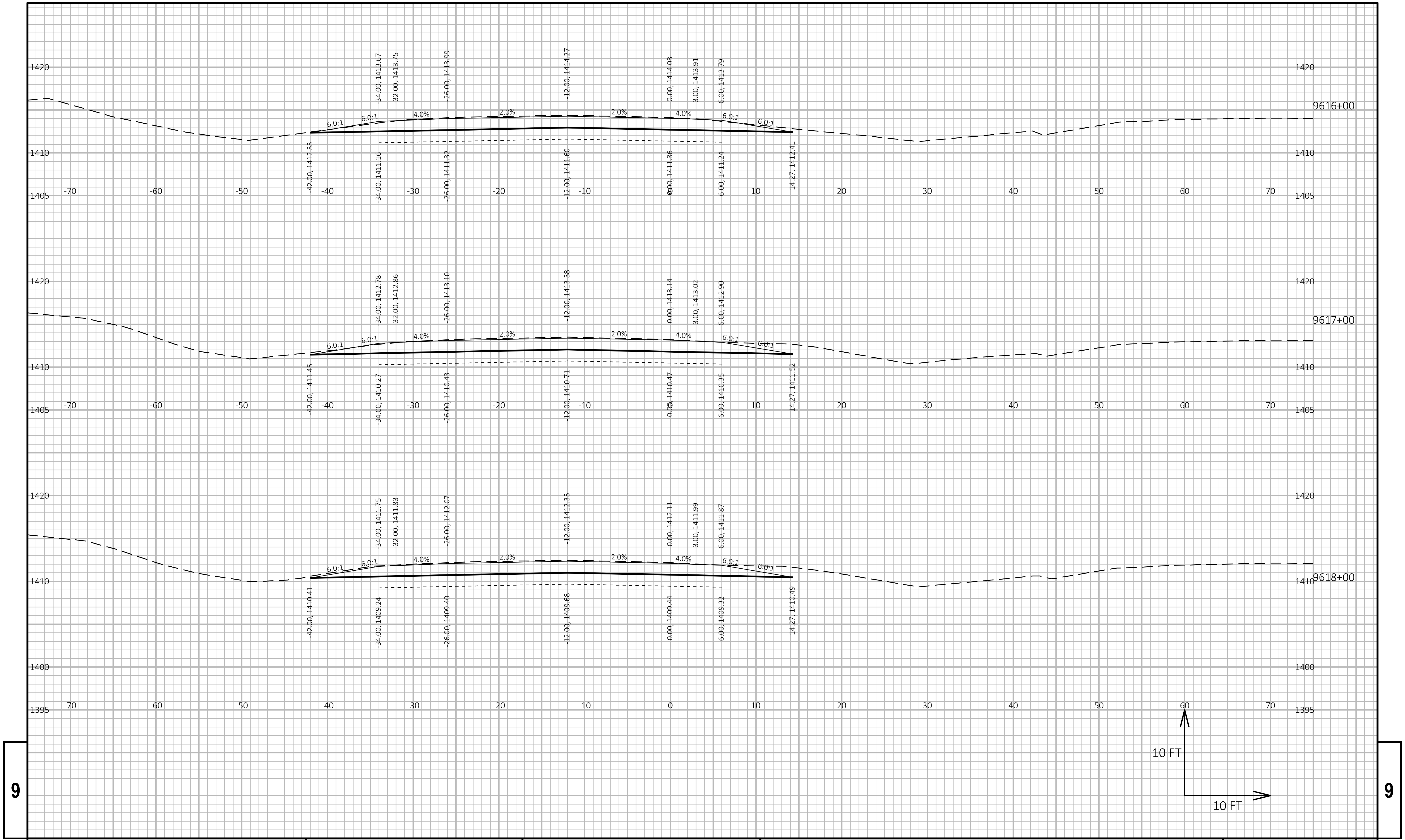
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 174 E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090217-xs
PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



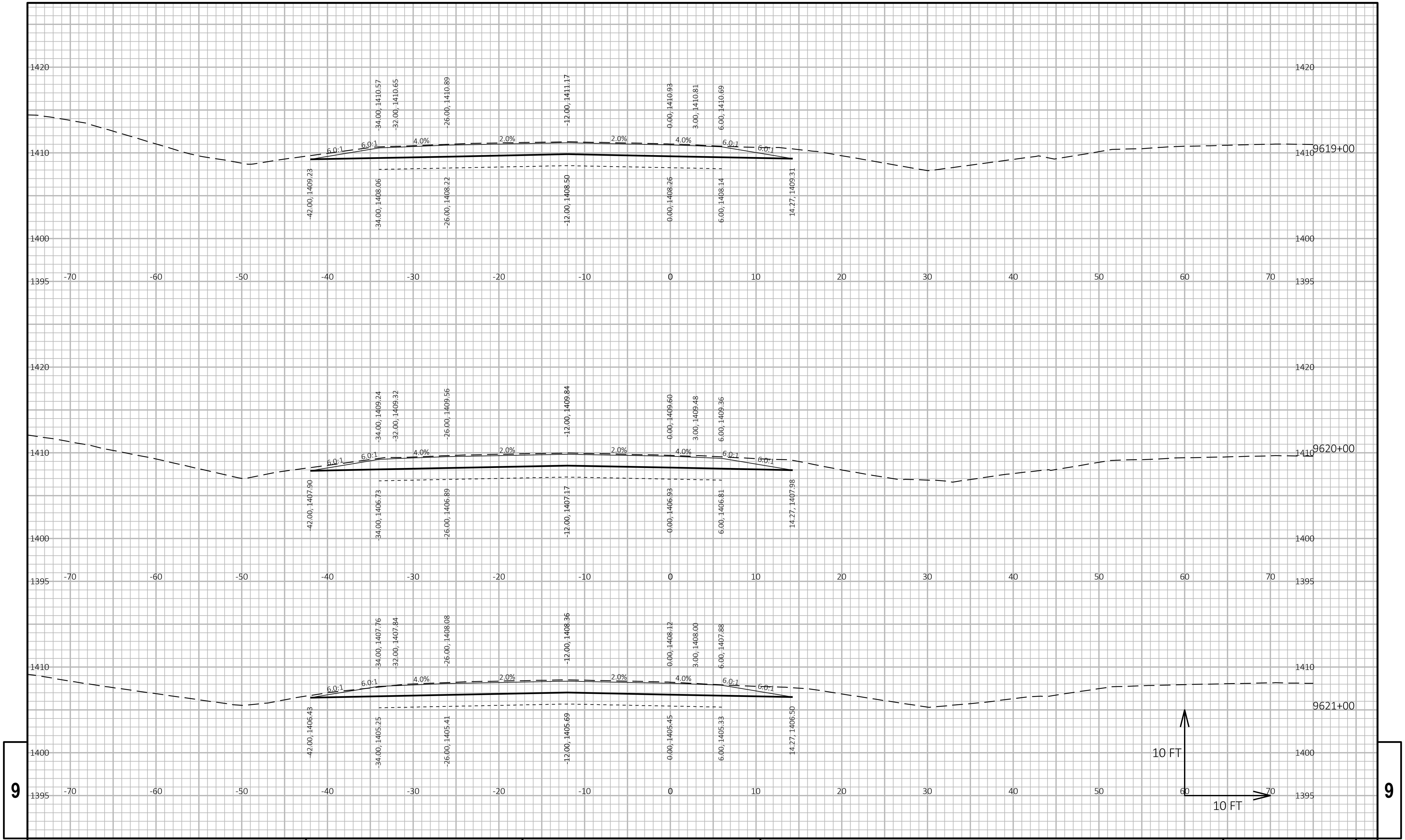
PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 175 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090218-xs

PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



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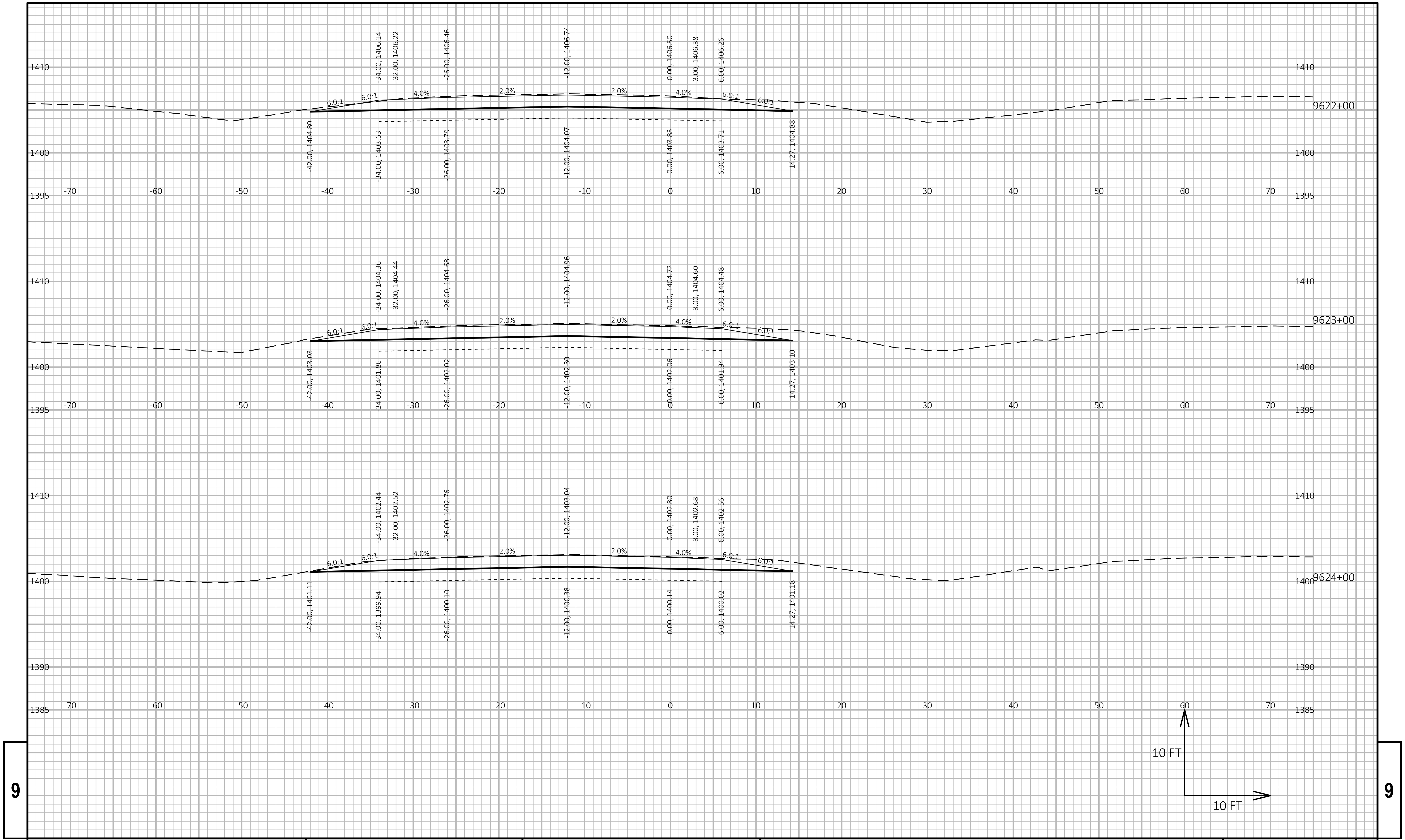
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 176	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090219-xs
PLOT DATE : 2/19/2026 8:31 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

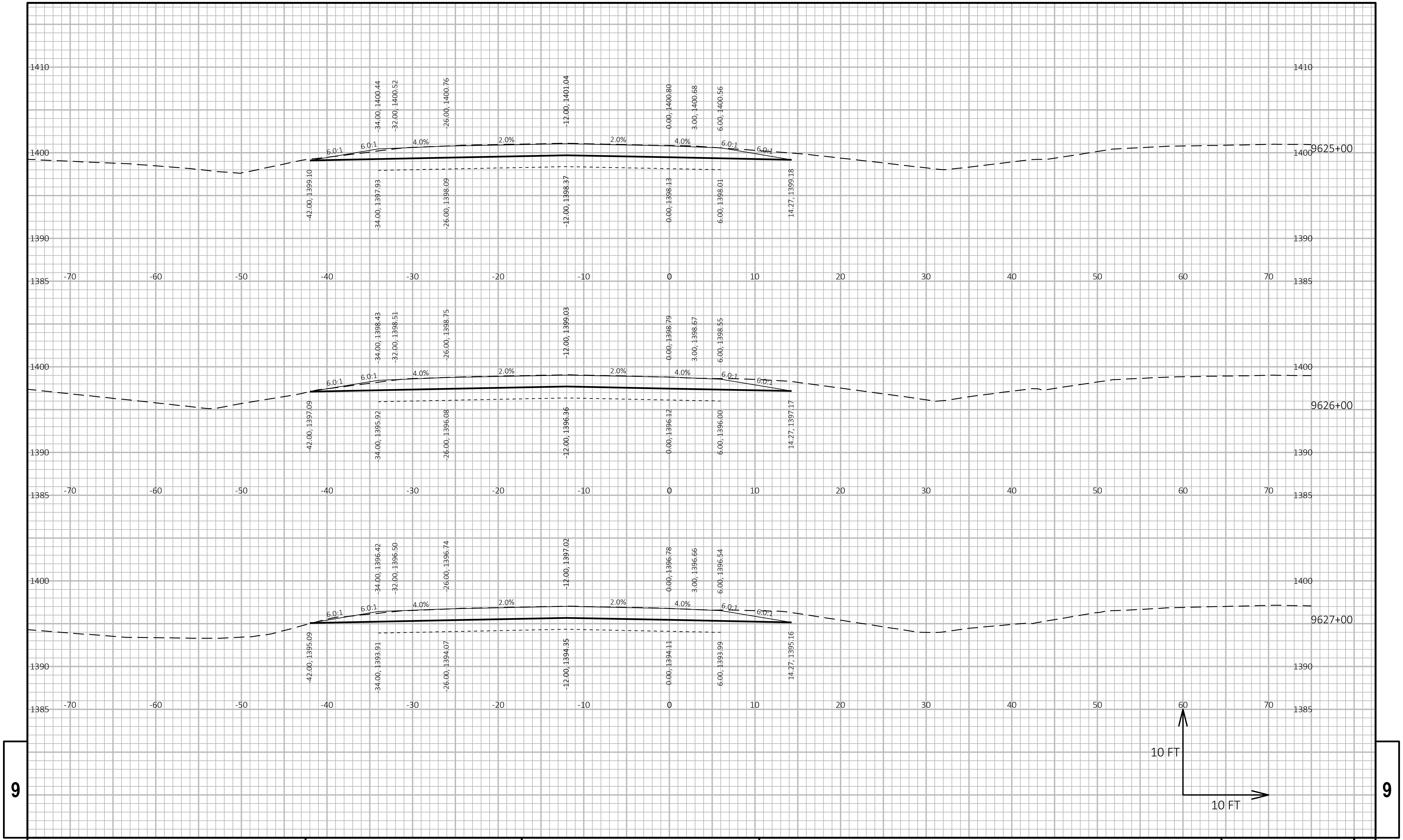


PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090220-xs

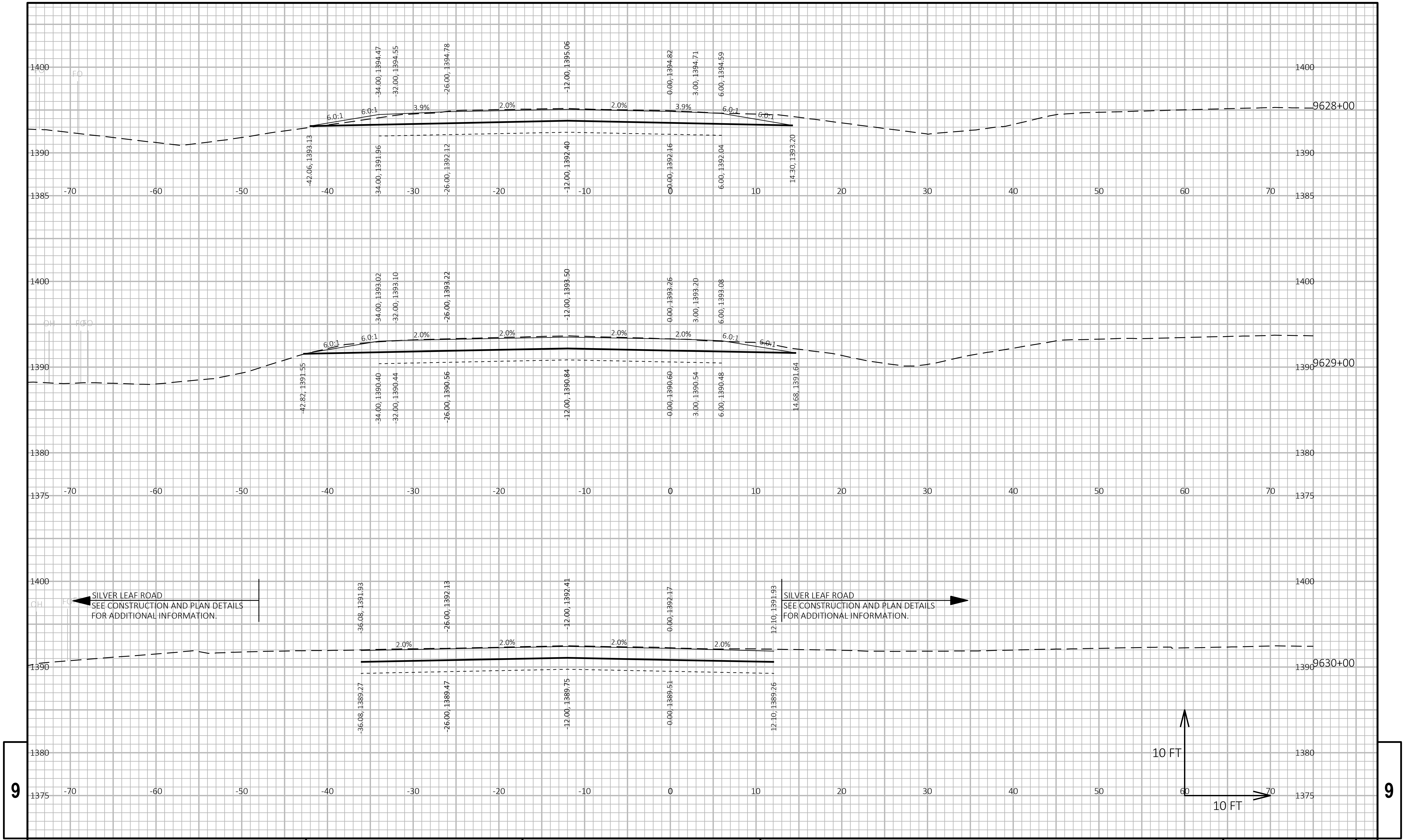
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1053-07-85
HWY: STH 29
COUNTY: MARATHON
CROSS SECTIONS: STH 29 WB
SHEET 178
E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090221-xs
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 179	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090222-xs

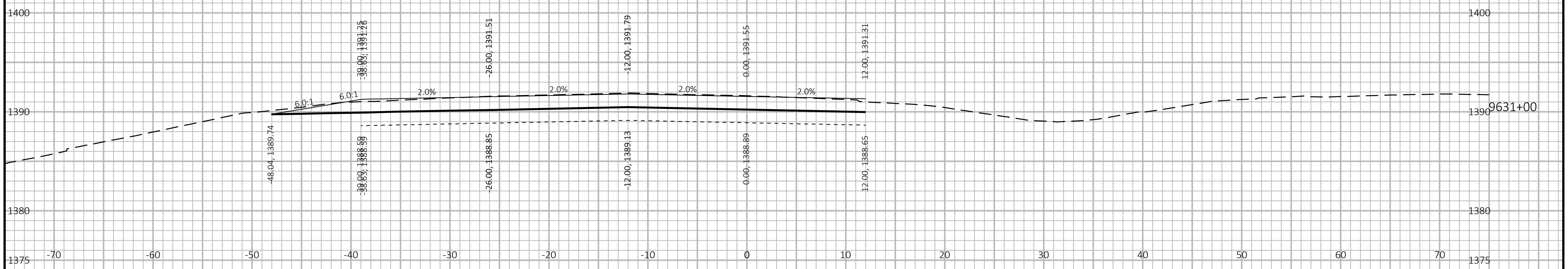
PLOT DATE : 2/19/2026 8:32 AM

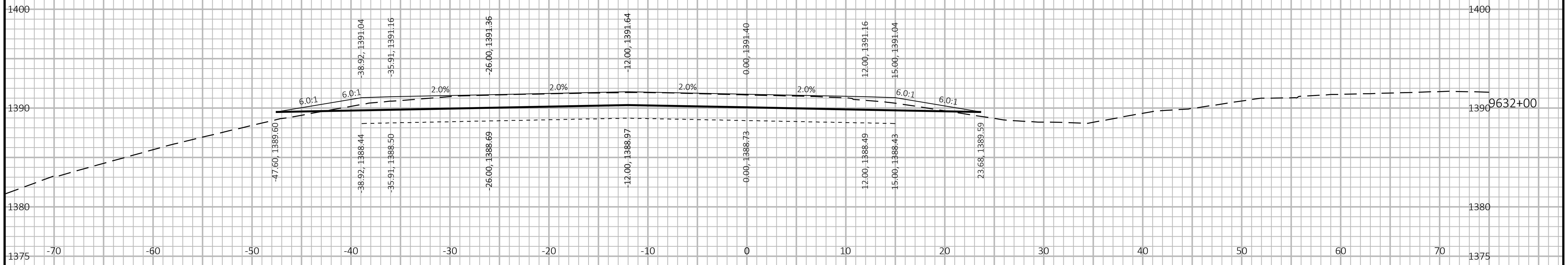
PLOT BY : HABERKORN, DEVEN

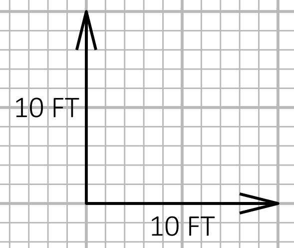
PLOT NAME :

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

WISDOT/CADDS SHEET 49







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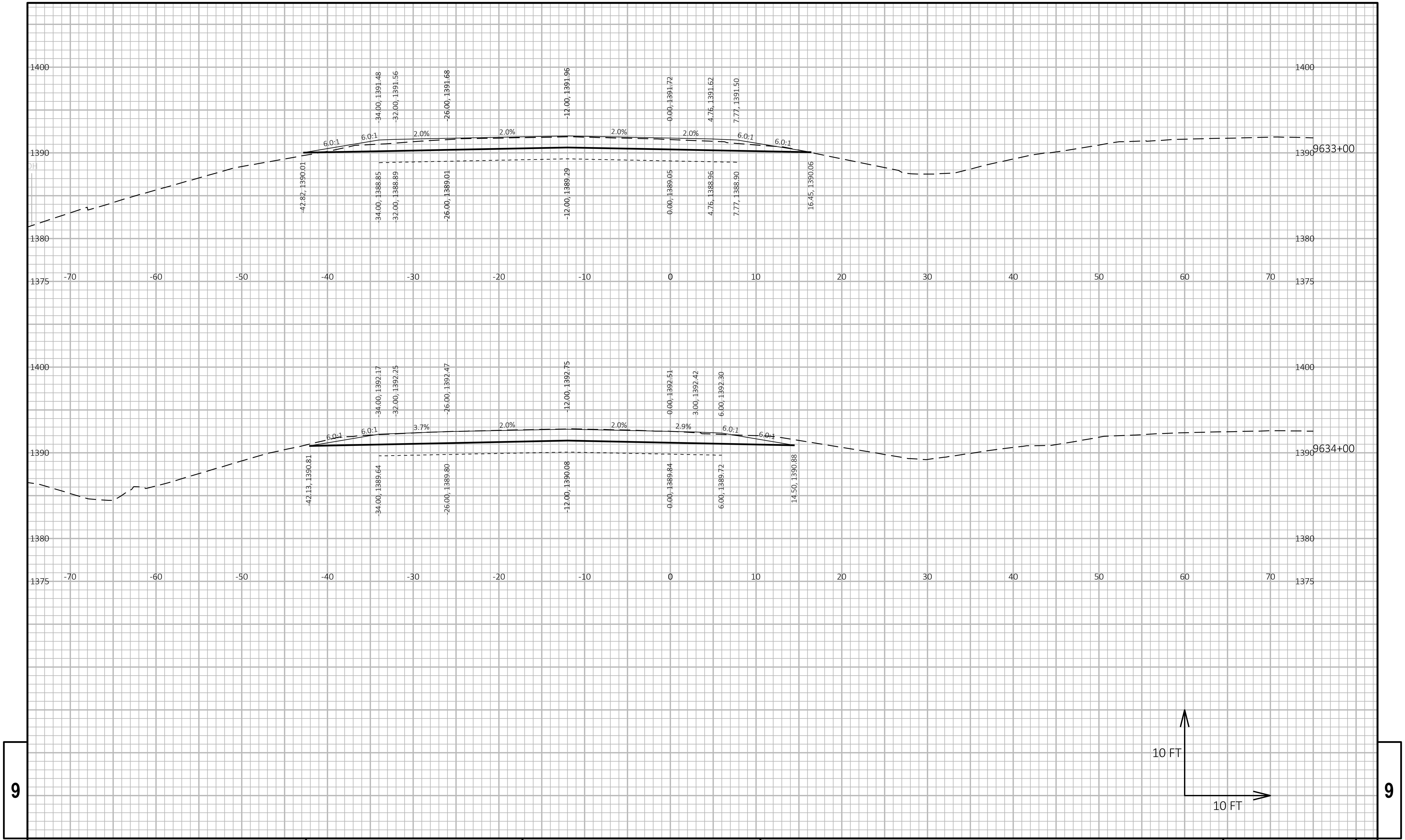
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090223-xs

PLOT DATE : 2/19/2026 8:32 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 181	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090224-xs

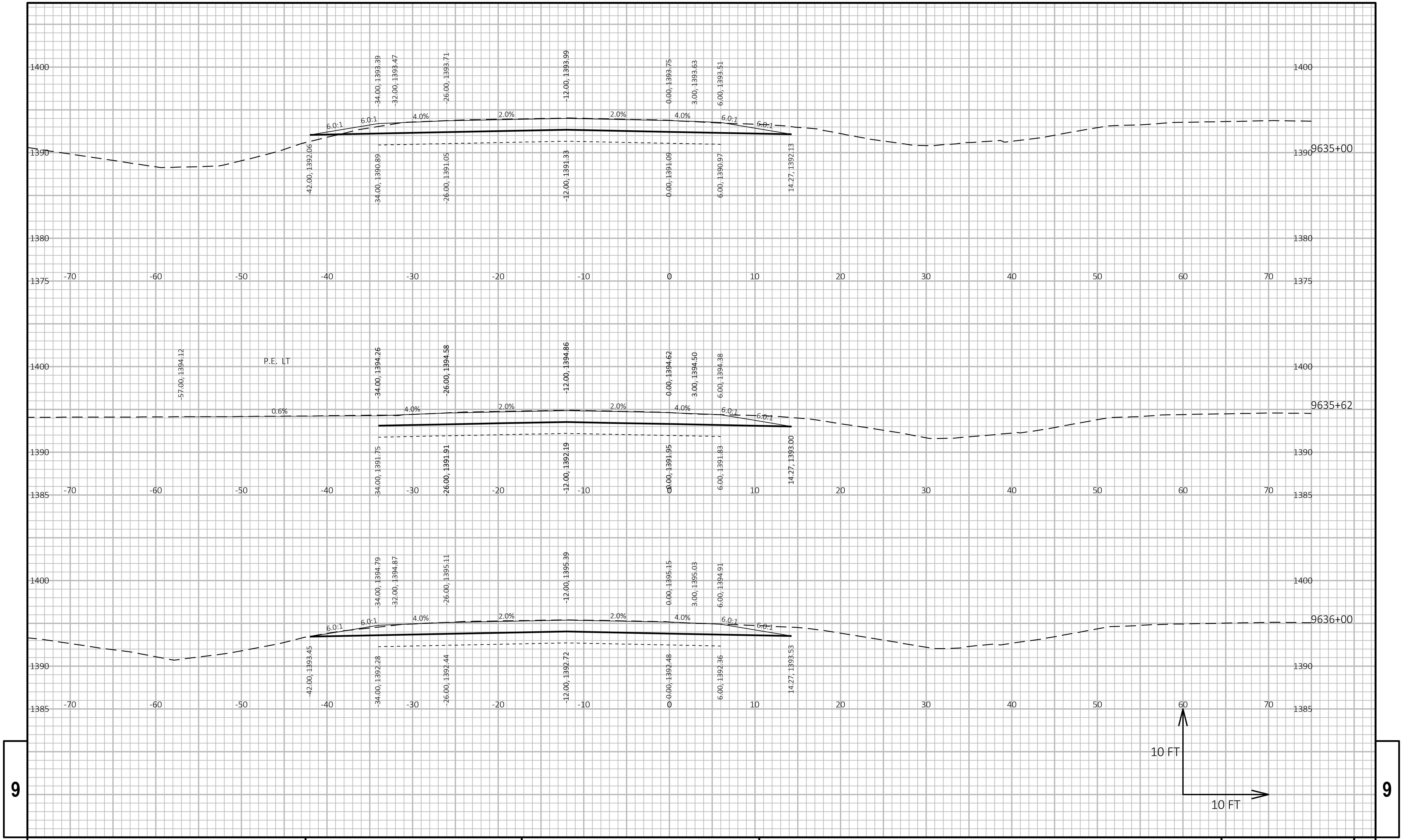
PLOT DATE : 2/19/2026 8:32 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

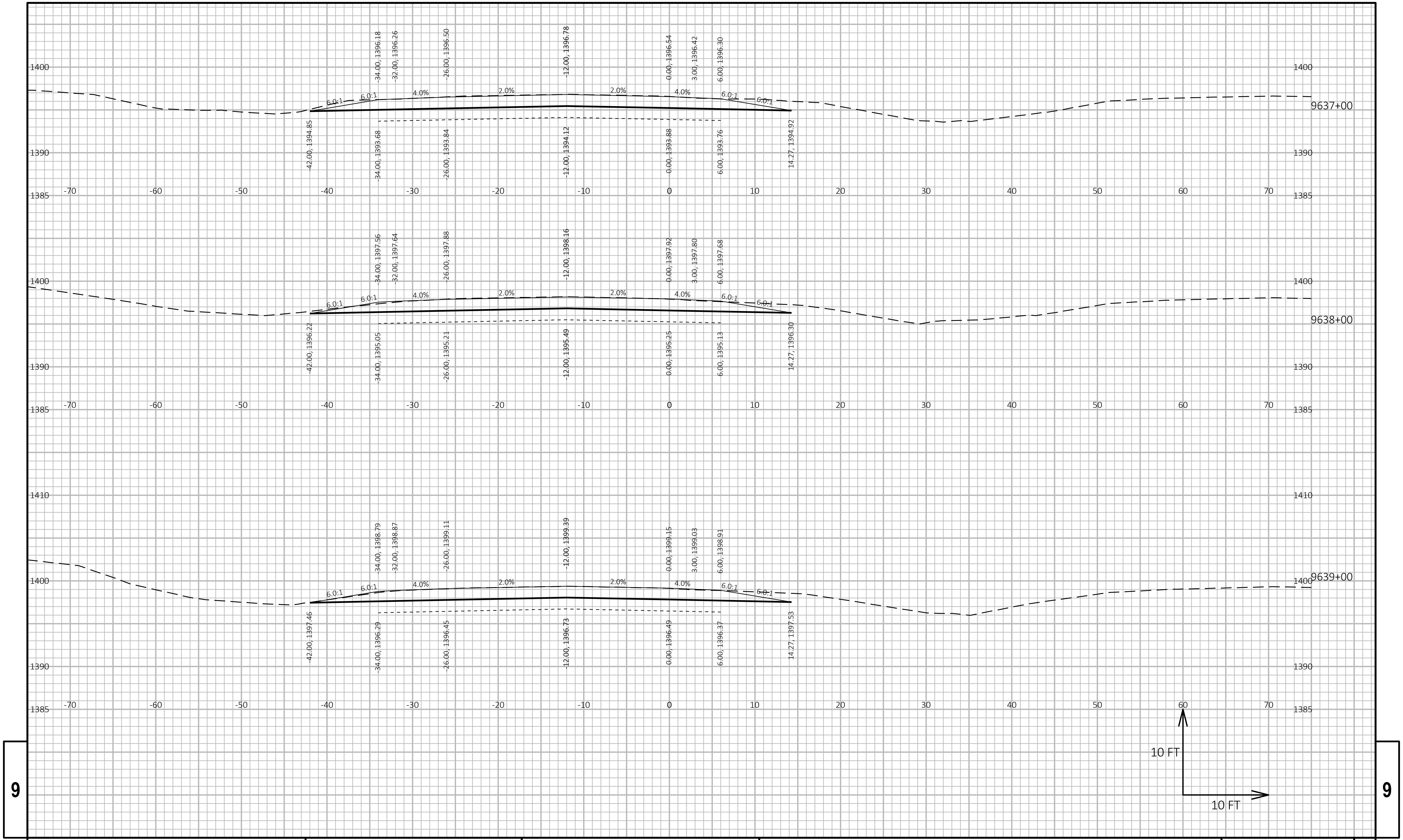
WISDOT/CADDS SHEET 49



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 182 E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090225-xs

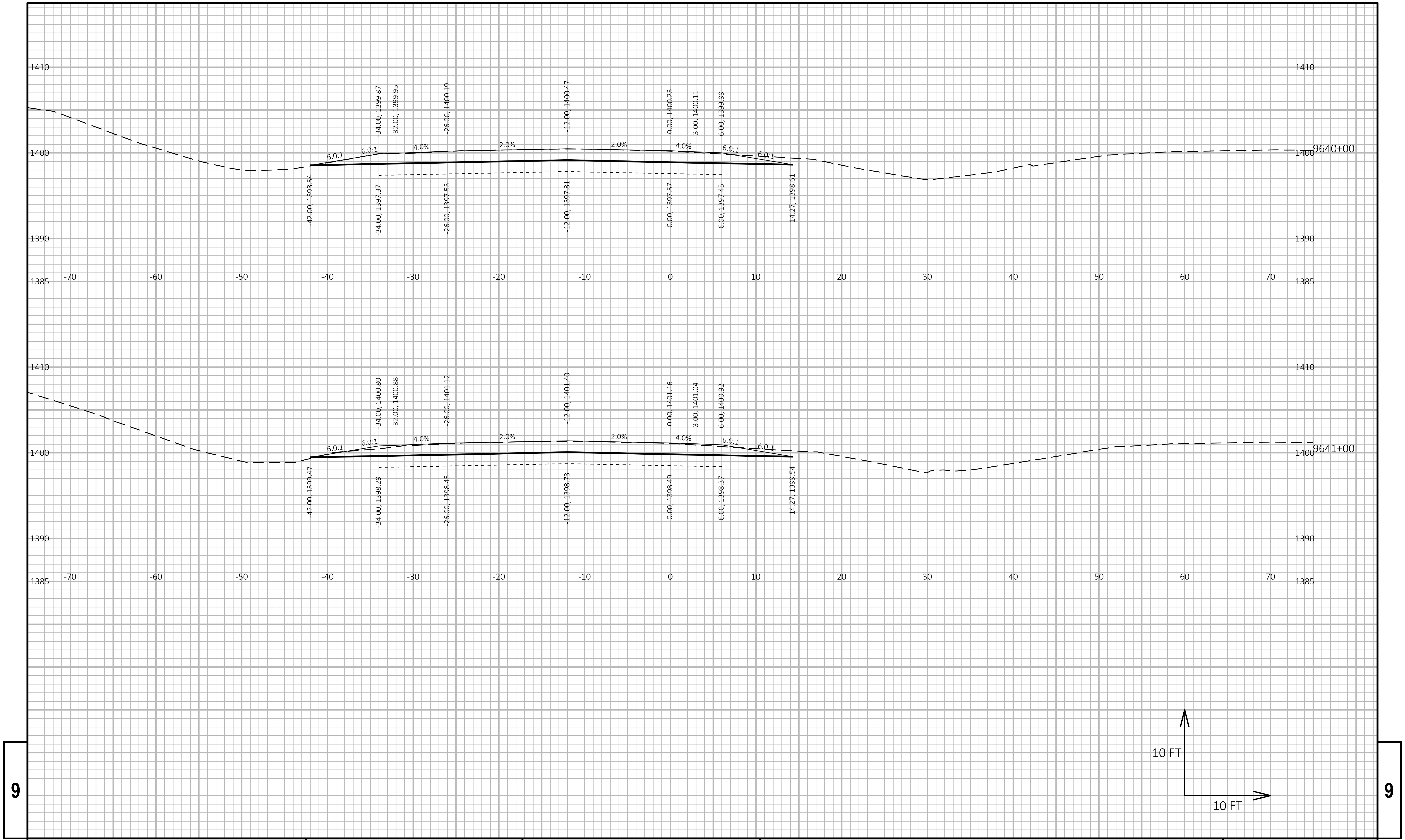
PLOT DATE : 2/19/2026 8:32 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 183 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090226-xs

PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 184 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090227-xs

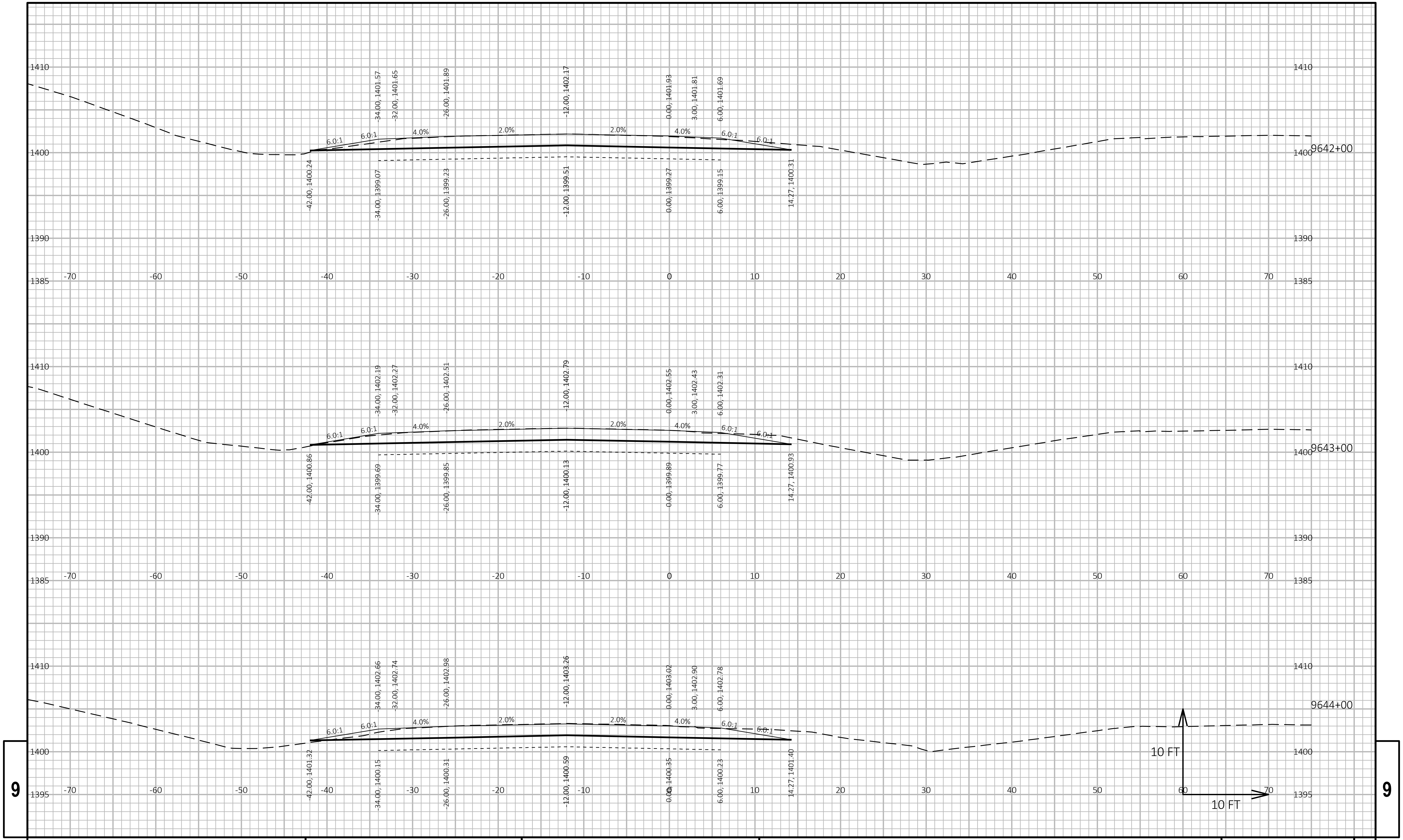
PLOT DATE : 2/19/2026 8:32 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1053-07-85

HWY: STH 29

COUNTY: MARATHON

CROSS SECTIONS: STH 29 WB

SHEET 185

E

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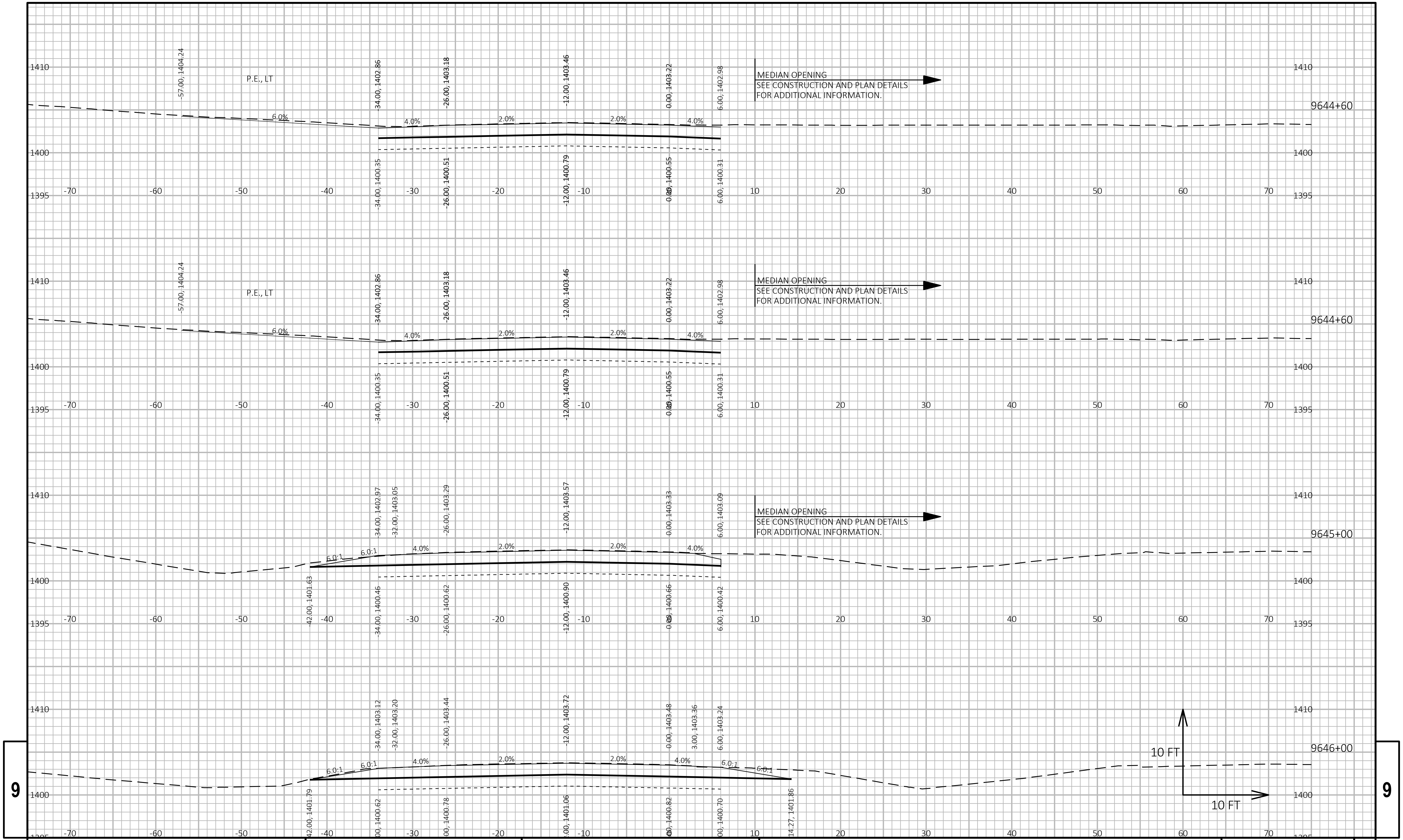

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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 186	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090229-xs
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

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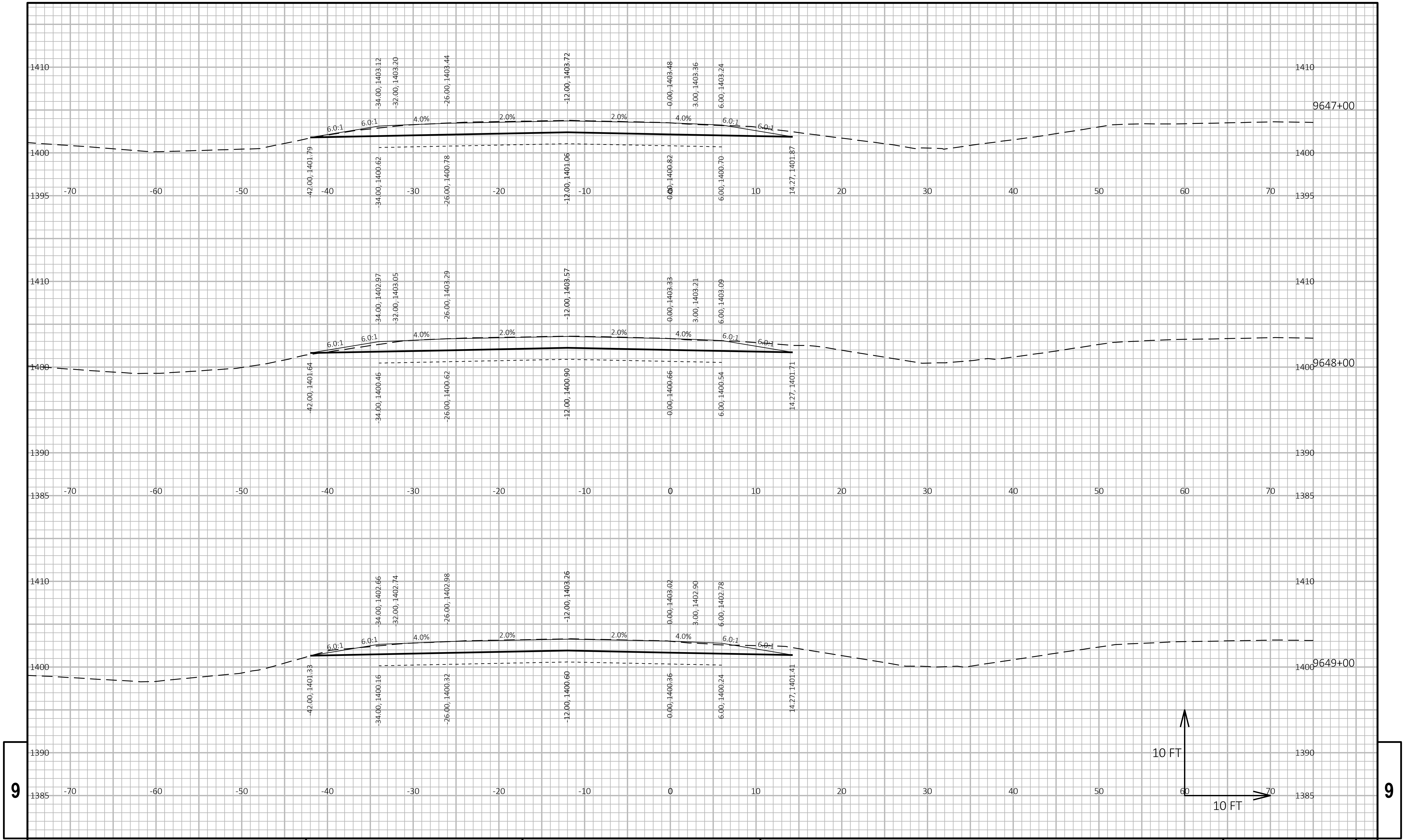

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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 187	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090230-xs

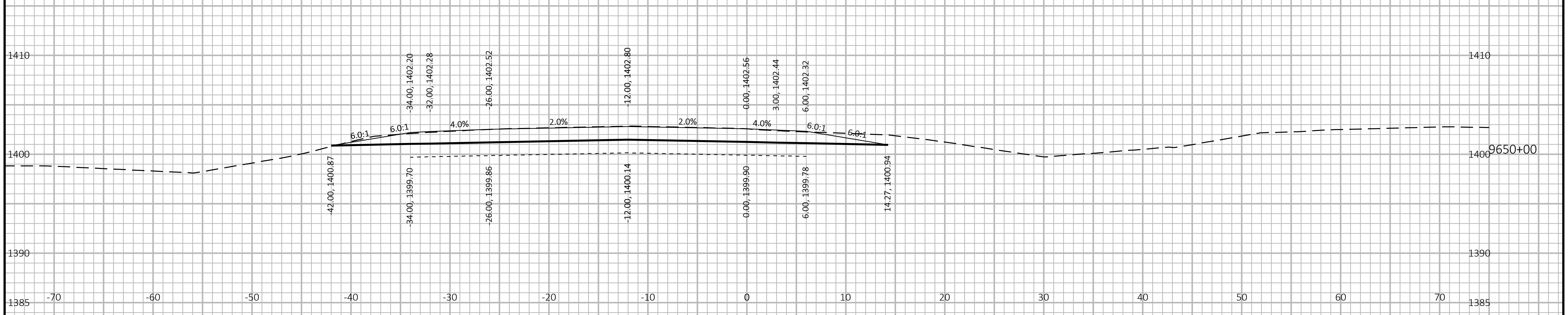
PLOT DATE : 2/19/2026 8:32 AM

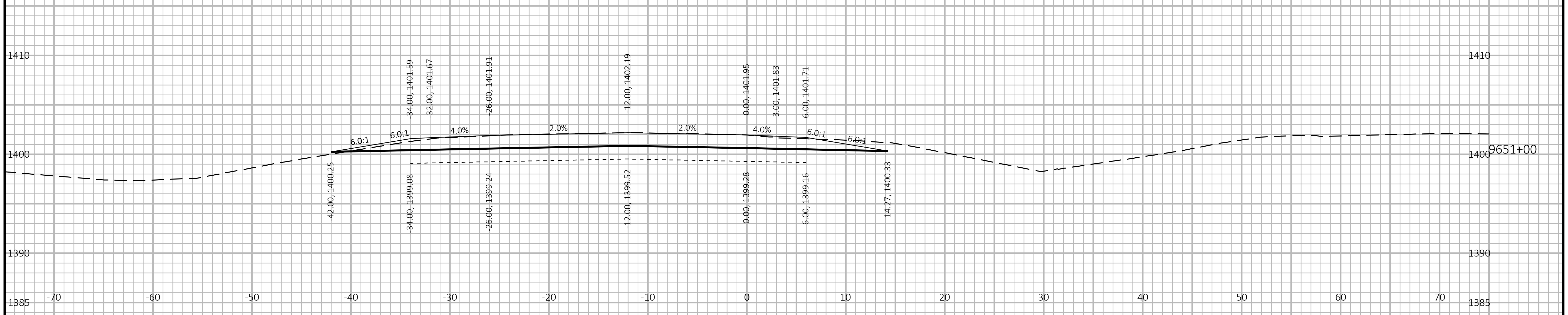
PLOT BY : HABERKORN, DEVEN

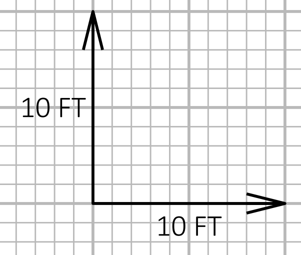
PLOT NAME :

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

WISDOT/CADDS SHEET 49







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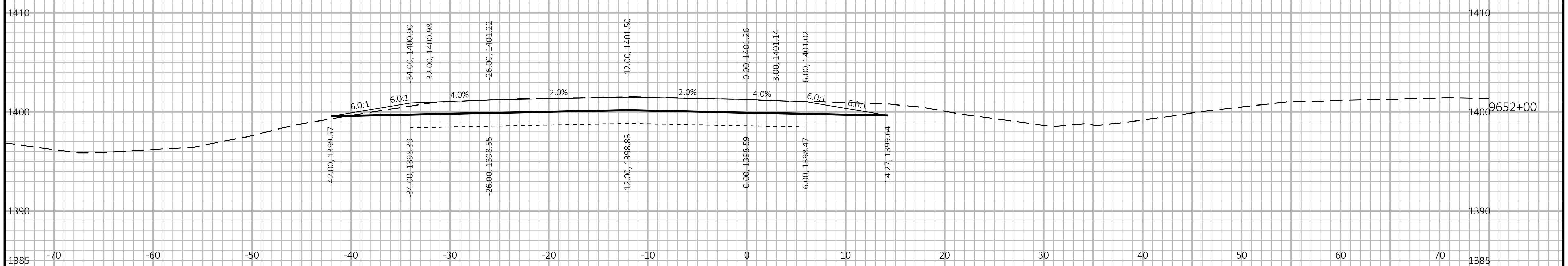
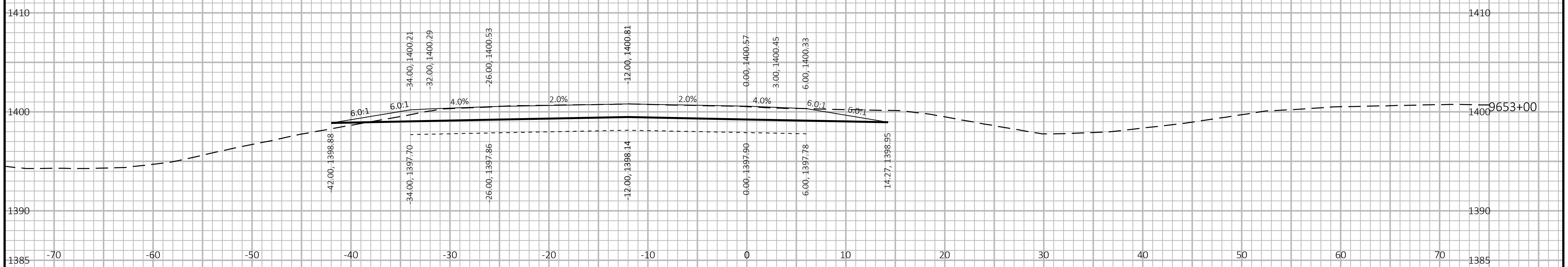
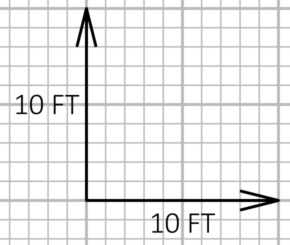
PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 188 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090231-xs

PLOT DATE : 2/19/2026 8:32 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.







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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 189	E

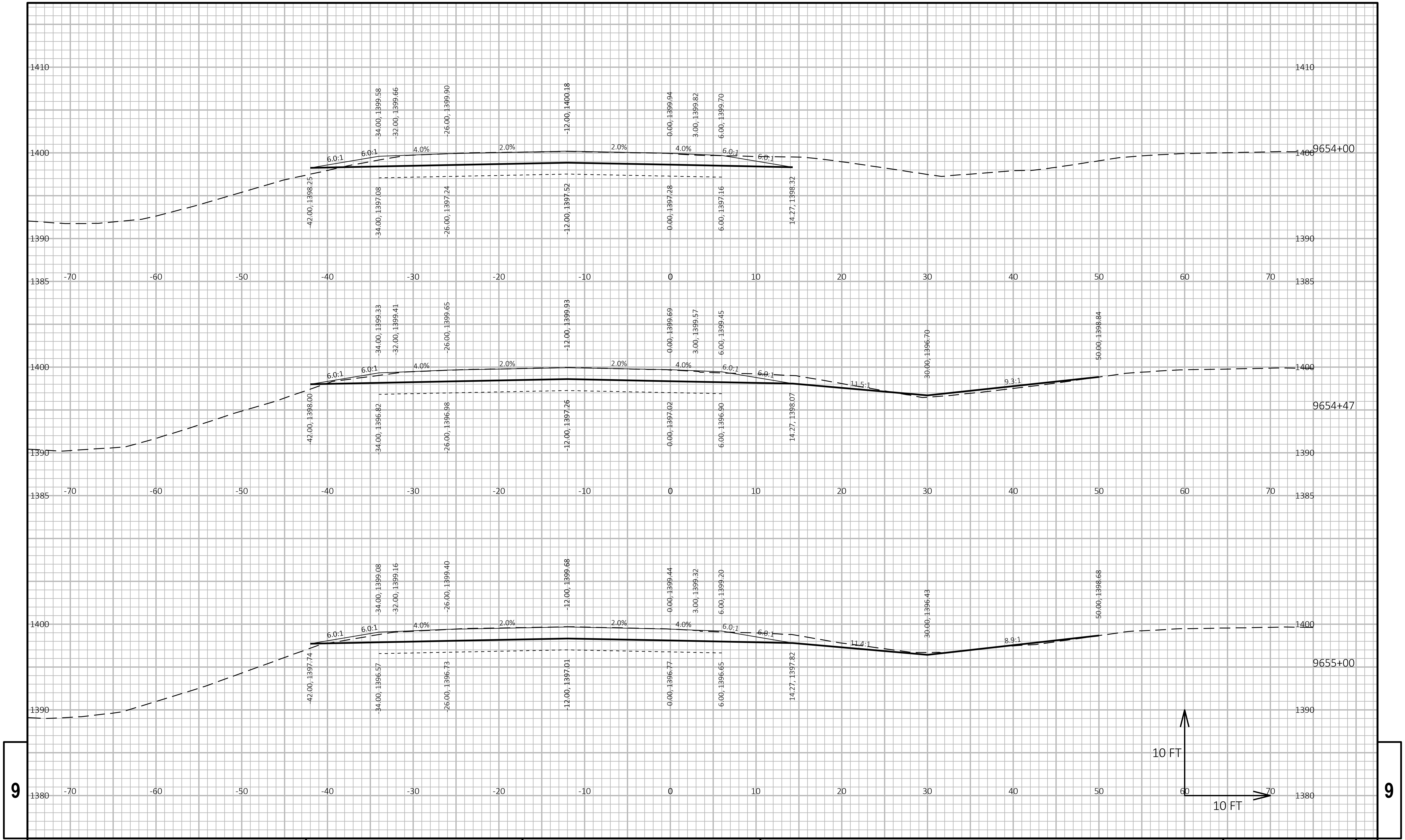
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090232-xs

PLOT DATE : 2/19/2026 8:32 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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



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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 190	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090233-xs

PLOT DATE : 2/19/2026 8:32 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

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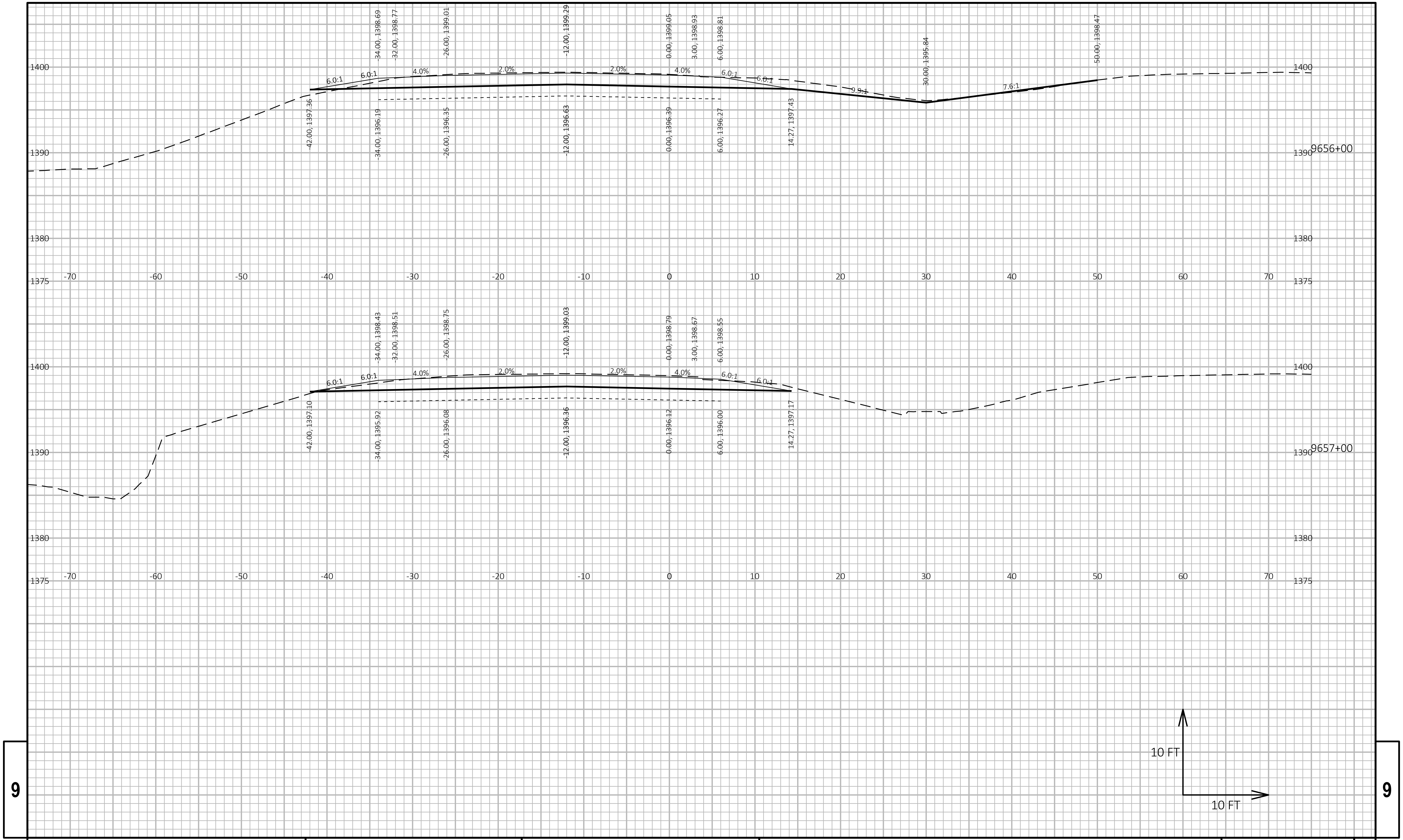

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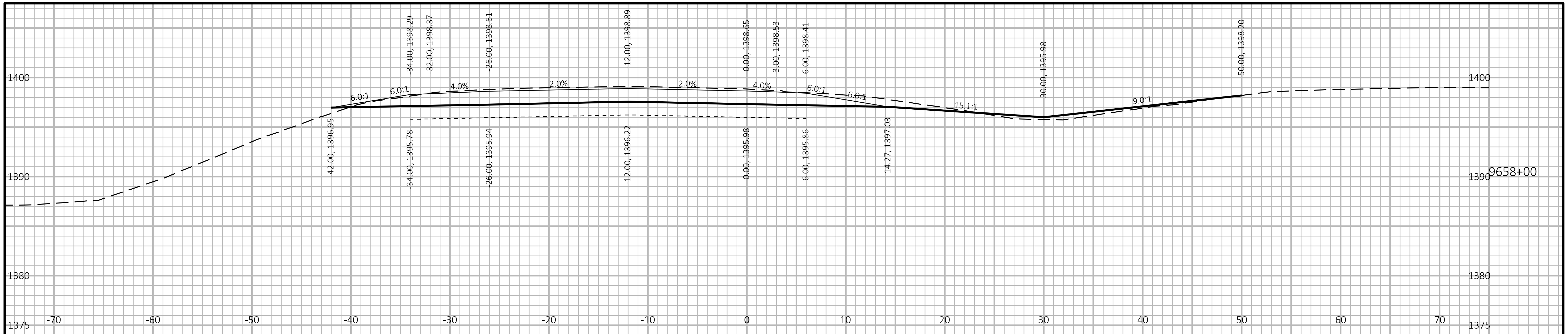
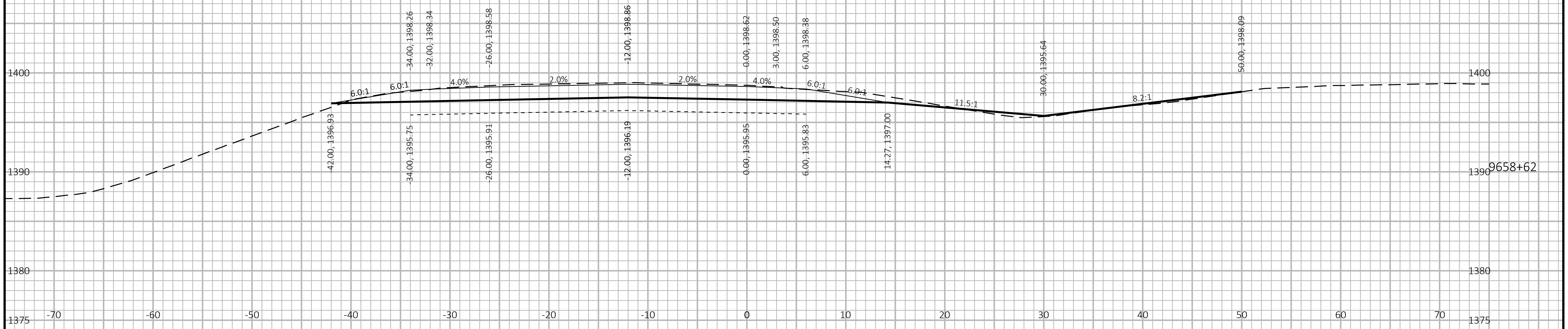
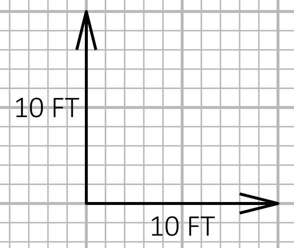
PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 191 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090234-xs
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

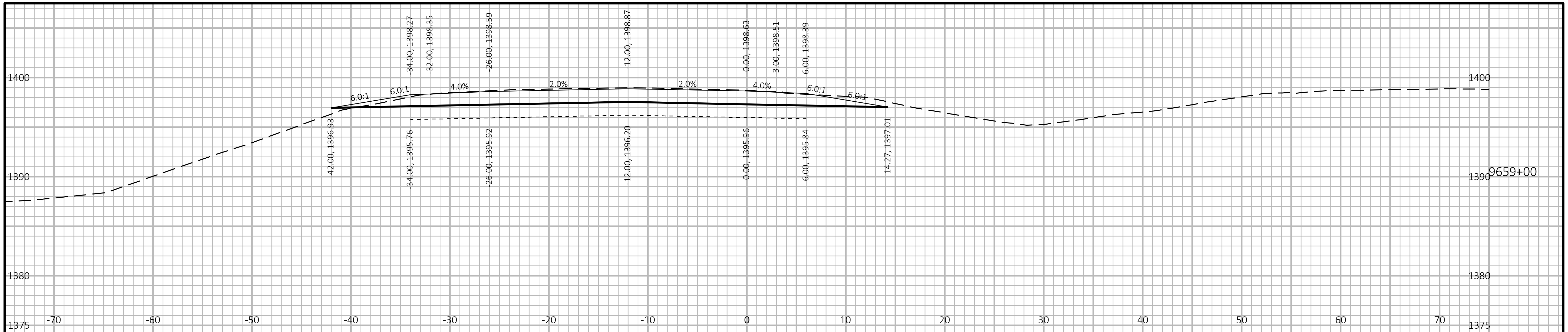


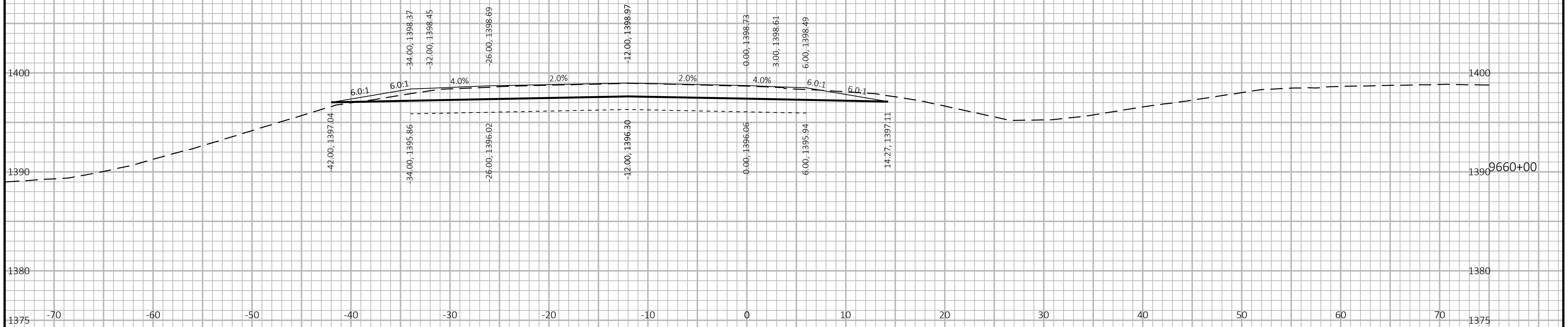


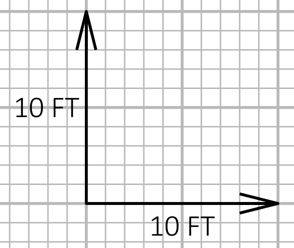


PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 192	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090235-xs
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



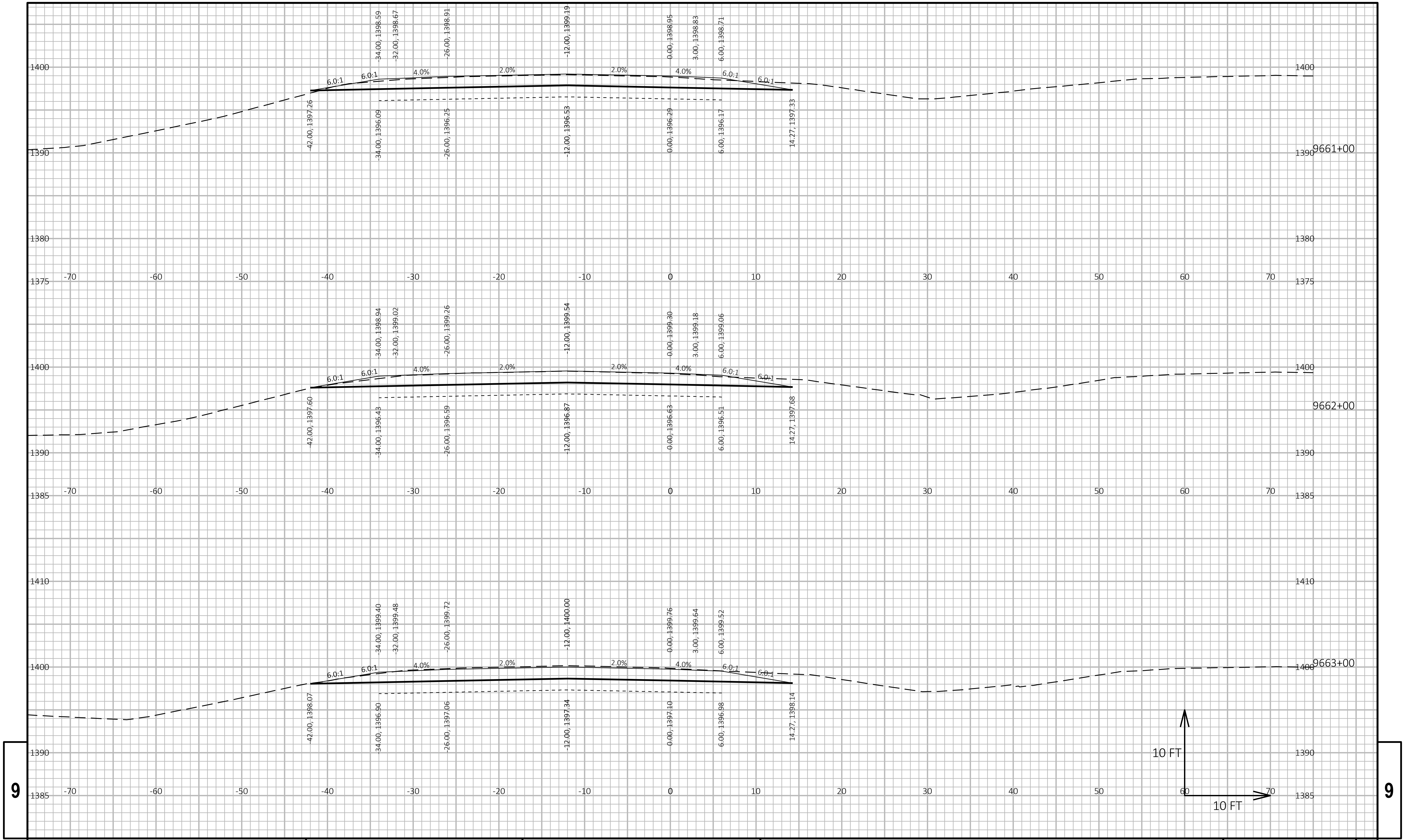




9 9

PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 193 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090236-xs
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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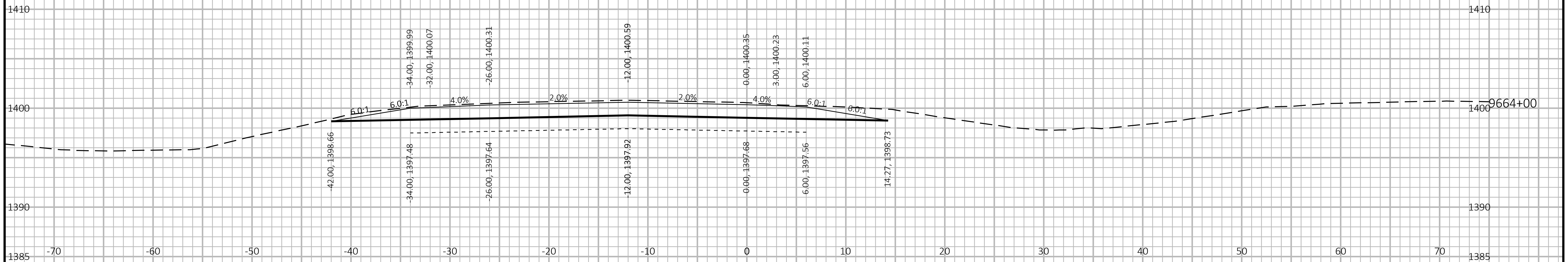
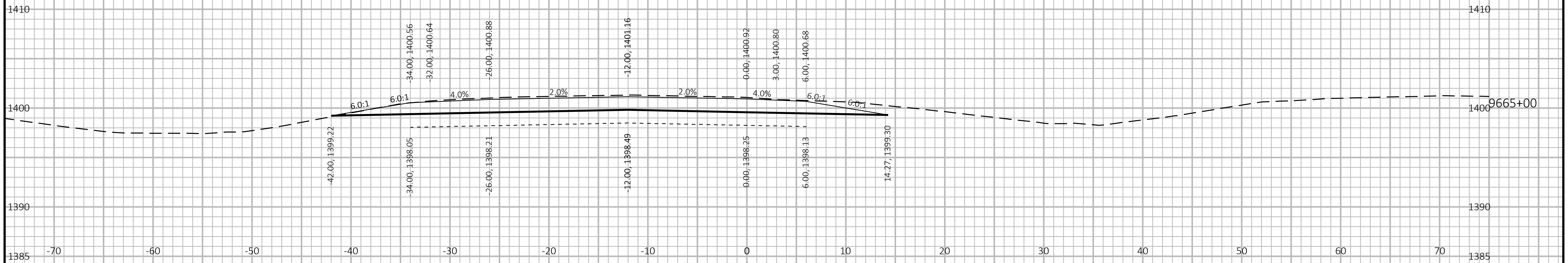
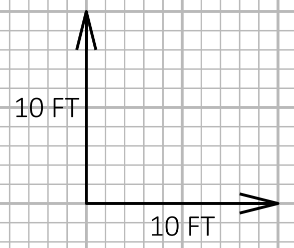
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 194	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090237-xs

PLOT DATE : 2/19/2026 8:32 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.







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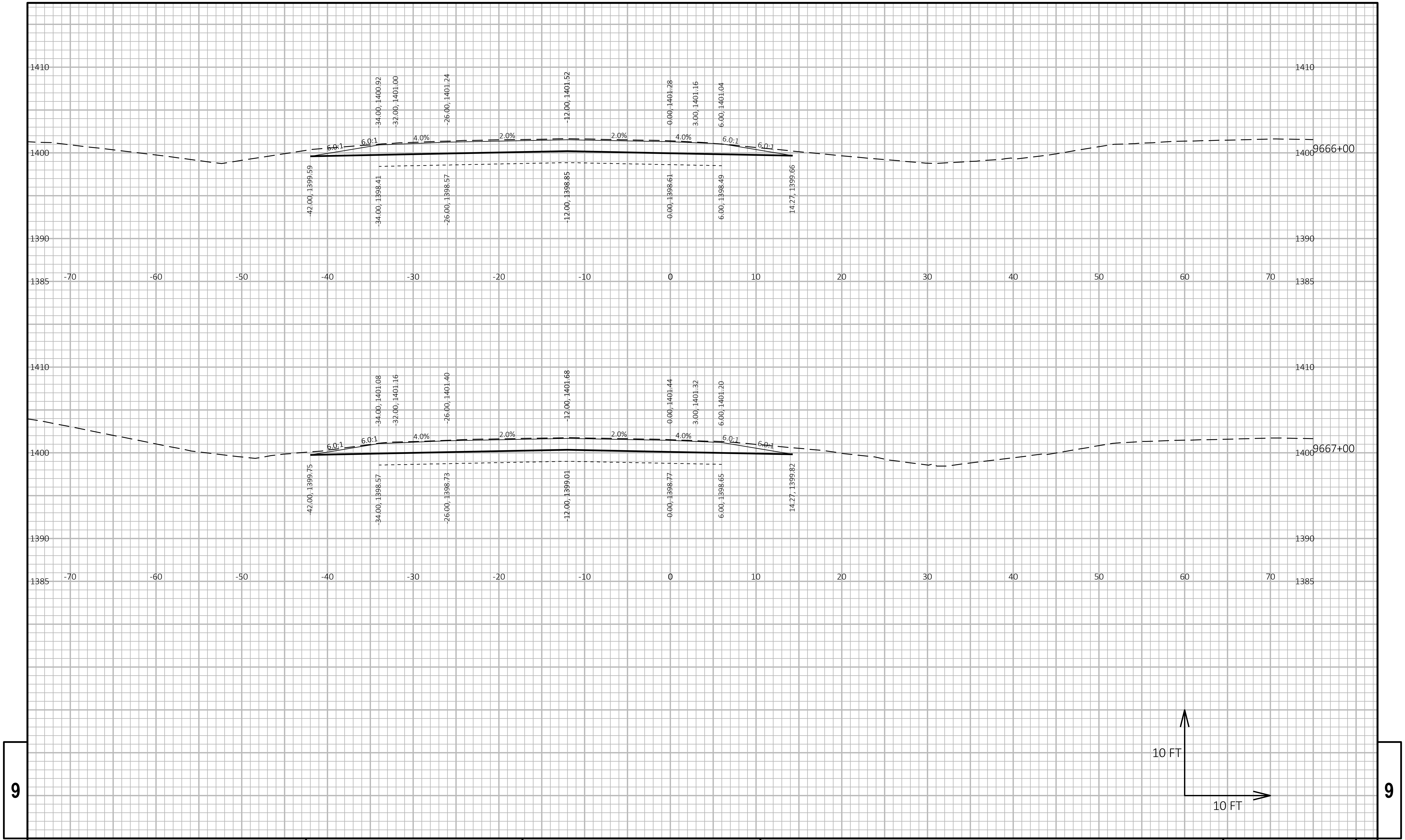
PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 195 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090238-xs
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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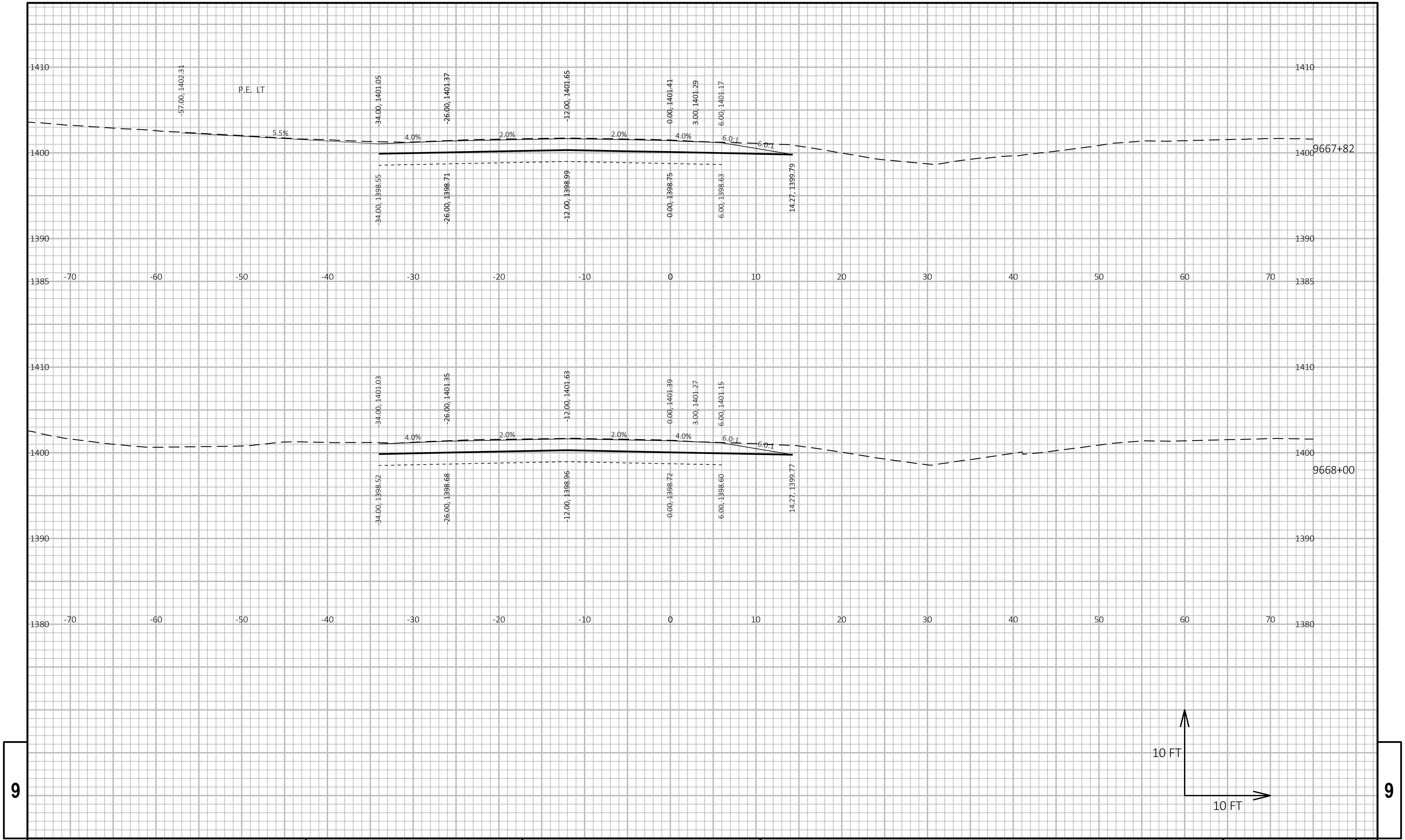
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 196	E

9



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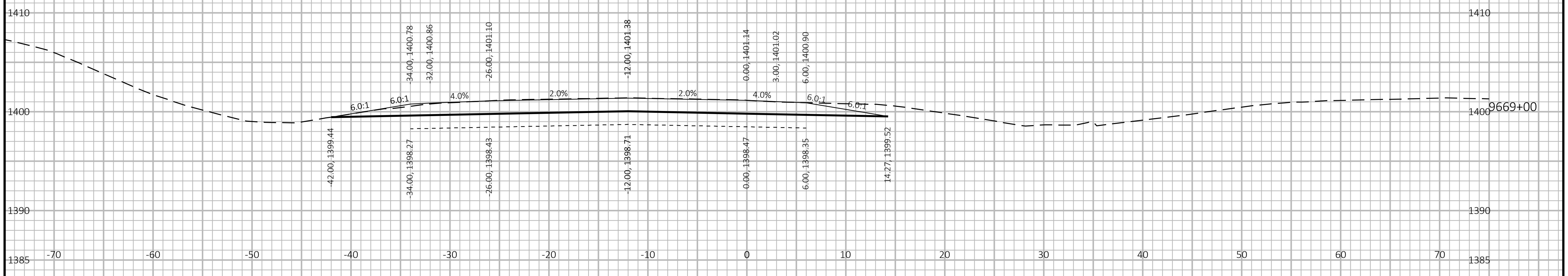
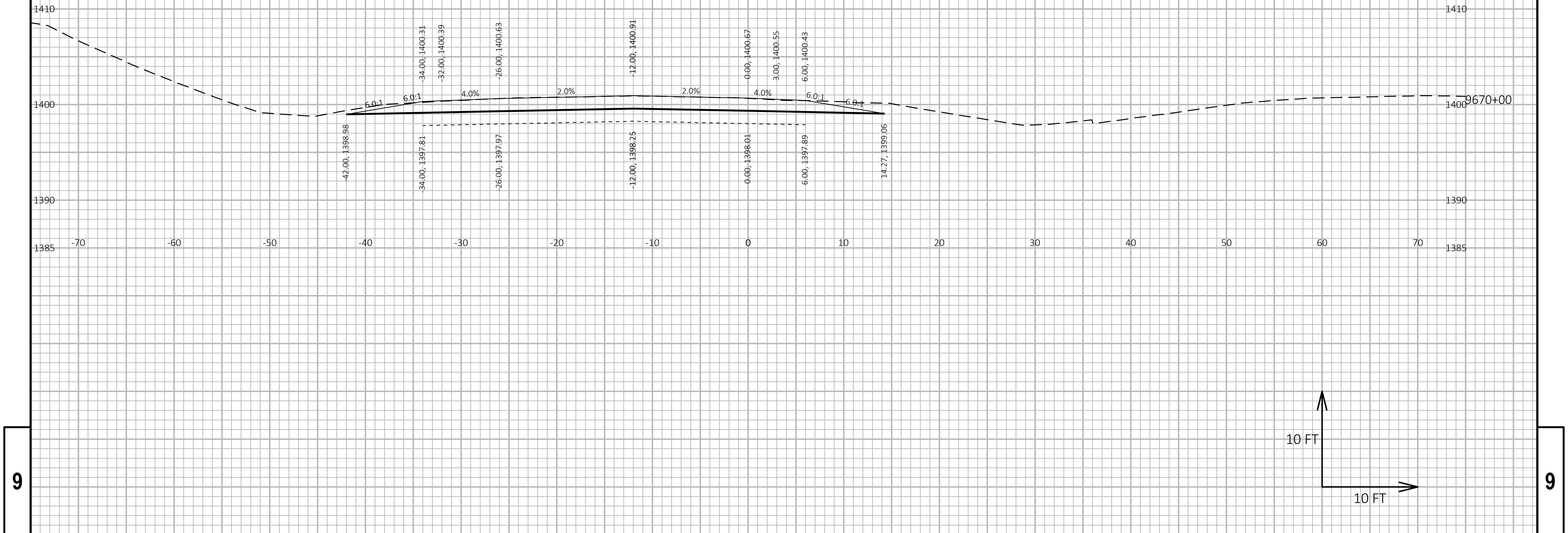
PROJECT NO: 1053-07-85
HWY: STH 29
COUNTY: MARATHON
CROSS SECTIONS: STH 29 WB
SHEET 197
E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090240-xs
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.





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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 198	E

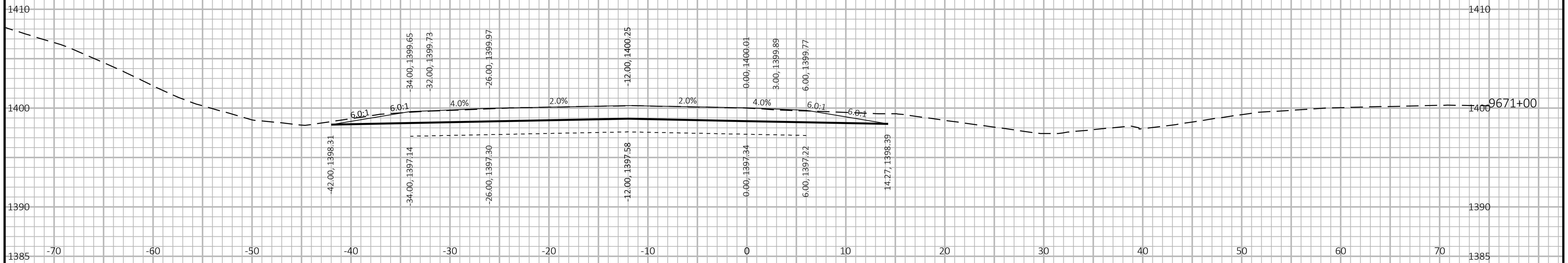
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090241-xs

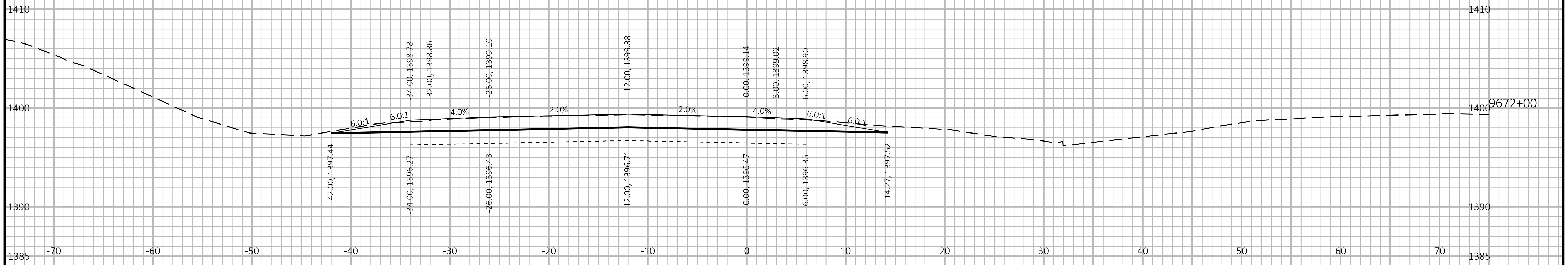
PLOT DATE : 2/19/2026 8:32 AM

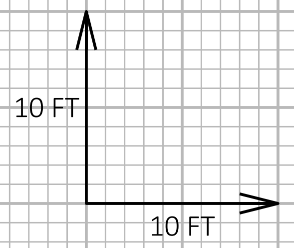
PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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







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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 199	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090242-xs

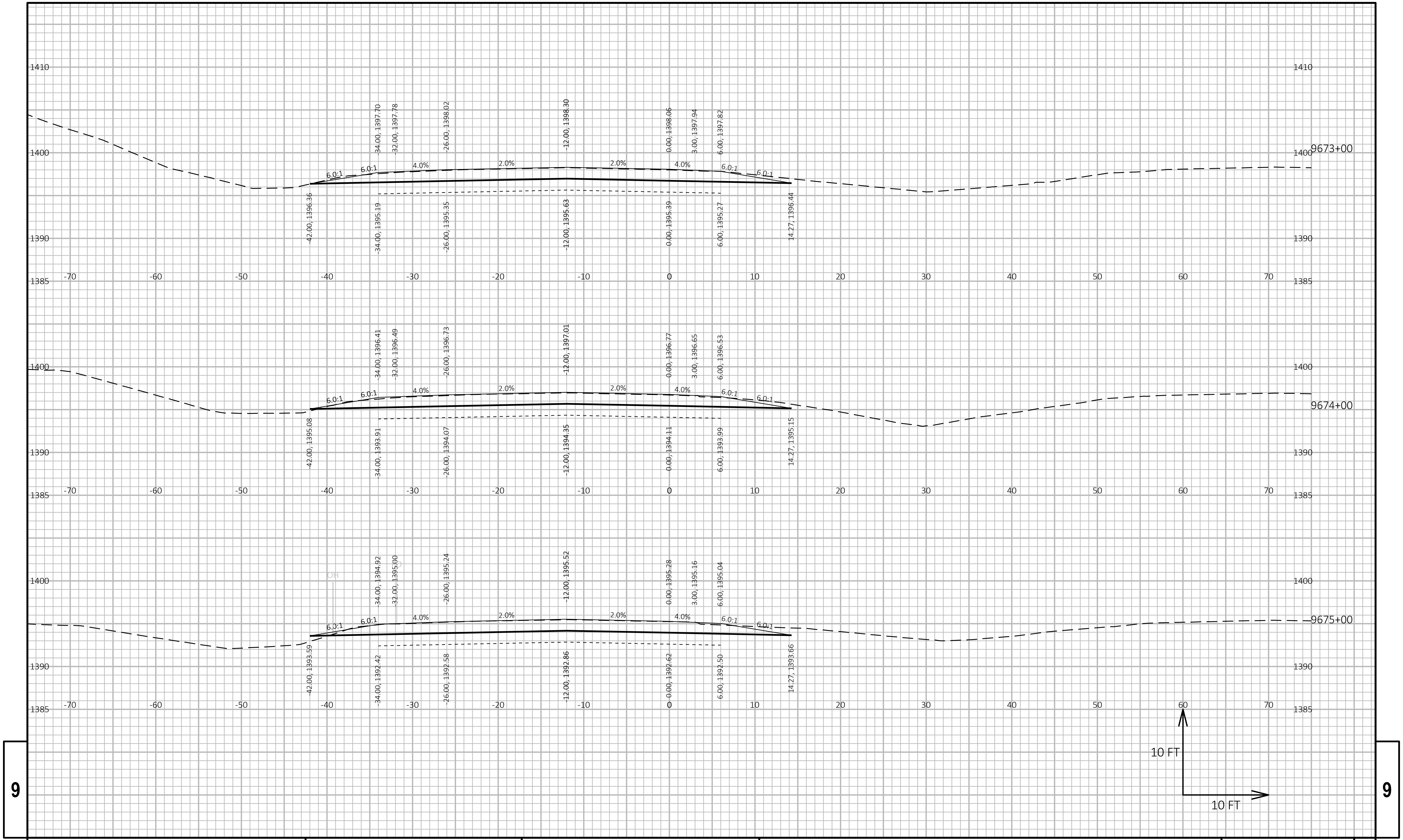
PLOT DATE : 2/19/2026 8:32 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 200	E

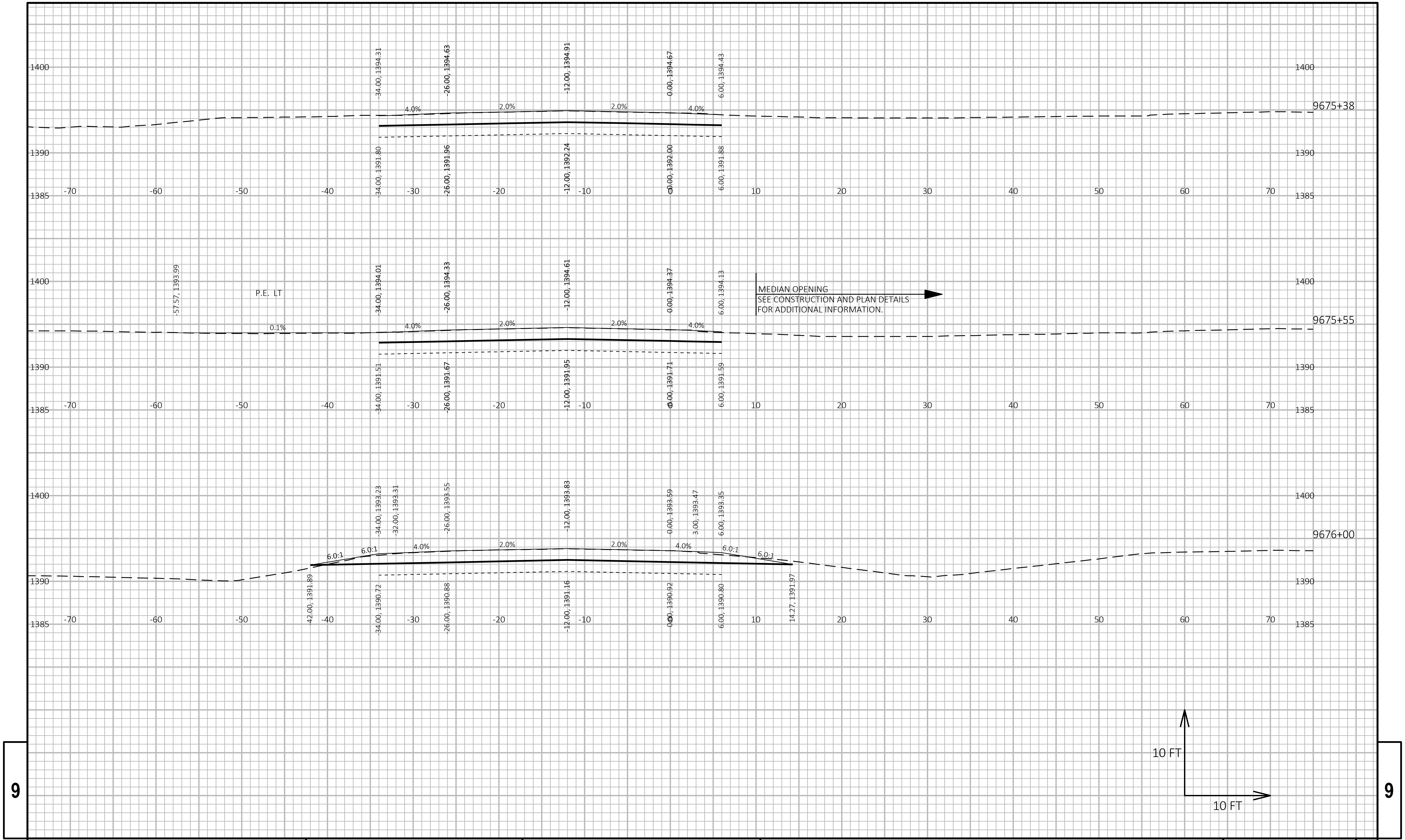
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090243-xs

PLOT DATE : 2/19/2026 8:32 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

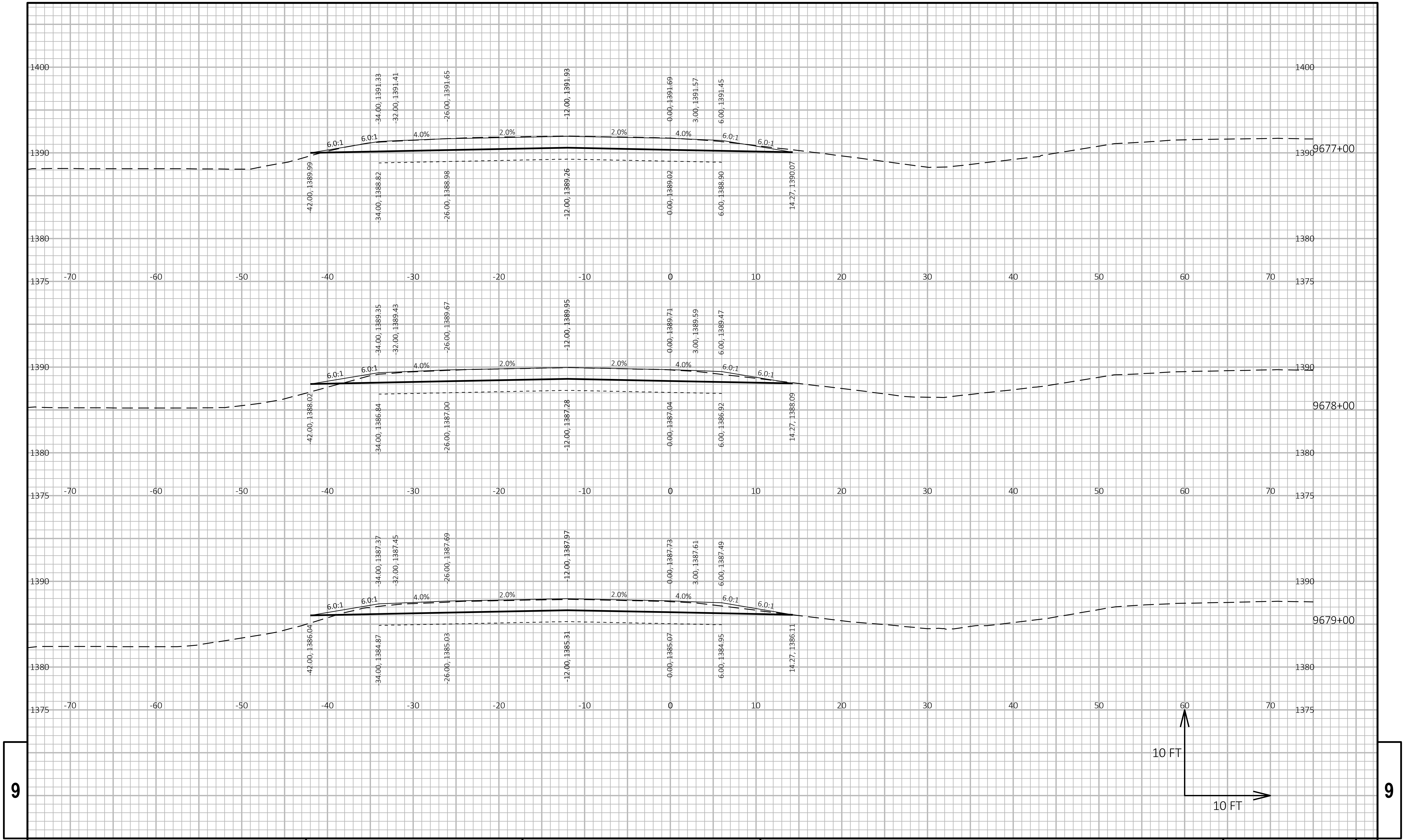


MEDIAN OPENING
SEE CONSTRUCTION AND PLAN DETAILS
FOR ADDITIONAL INFORMATION.

PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 201 E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090244-xs
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

9



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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 202	E

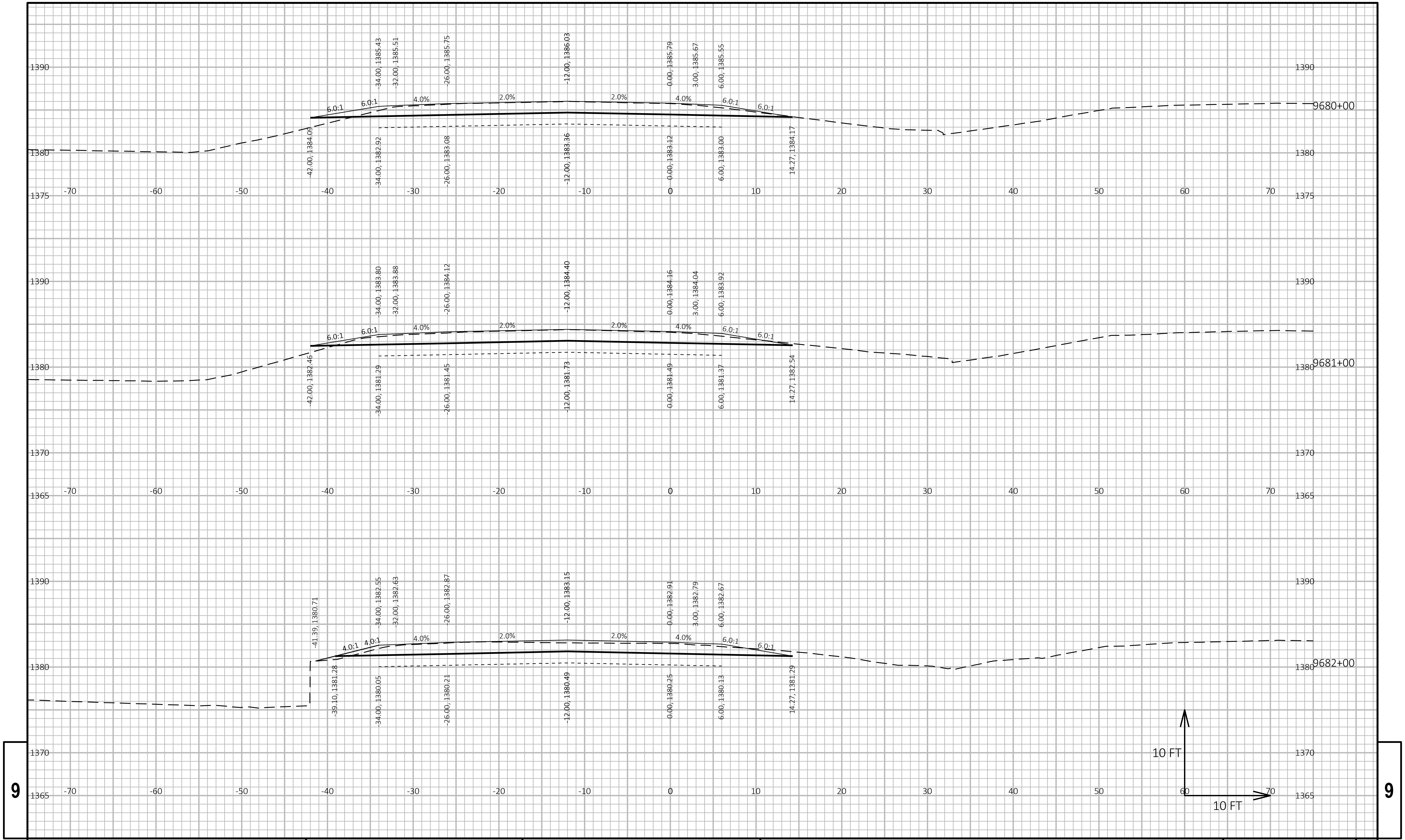
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090245-xs

PLOT DATE : 2/19/2026 8:32 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

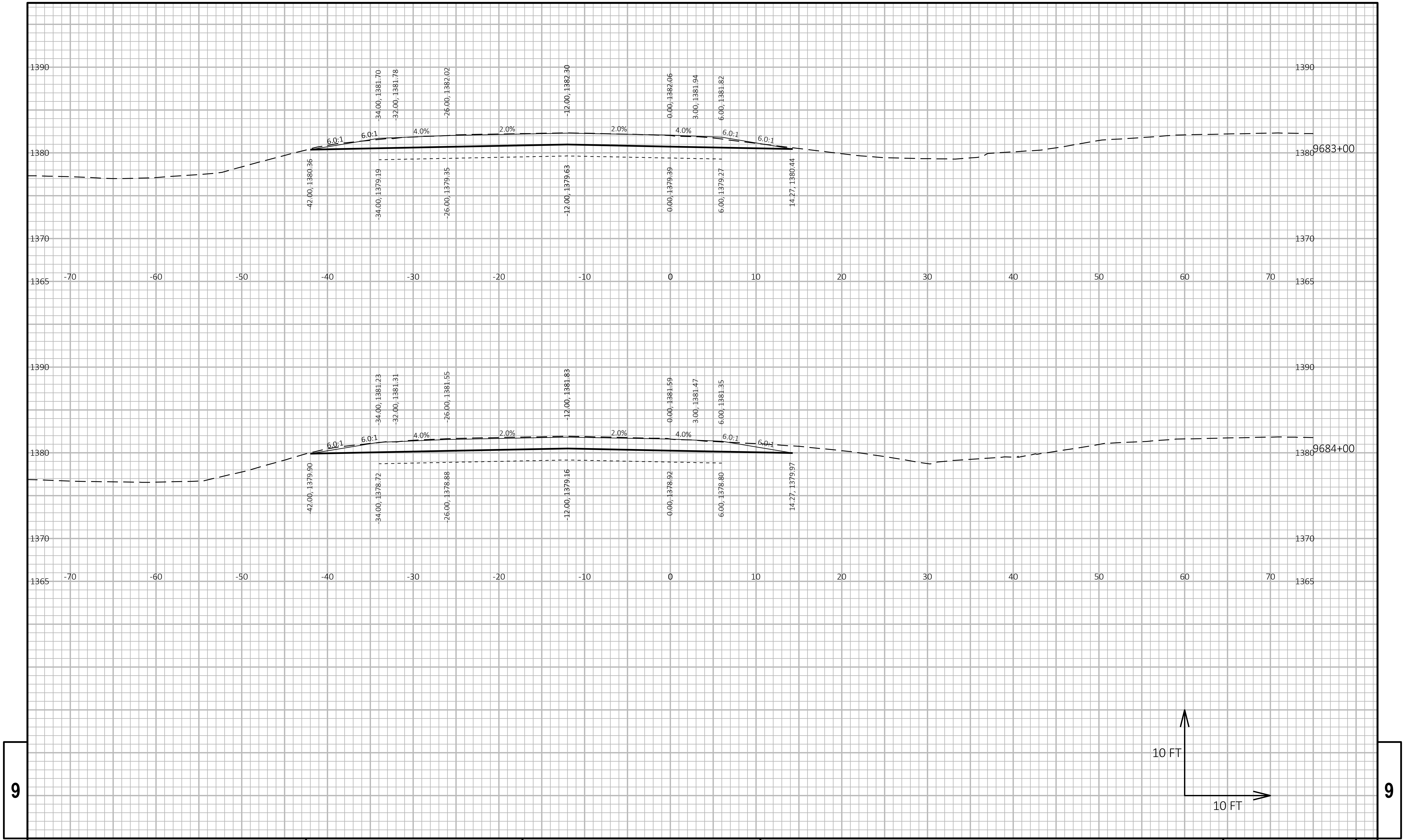
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 203	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090246-xs

PLOT DATE : 2/19/2026 8:32 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 204	E

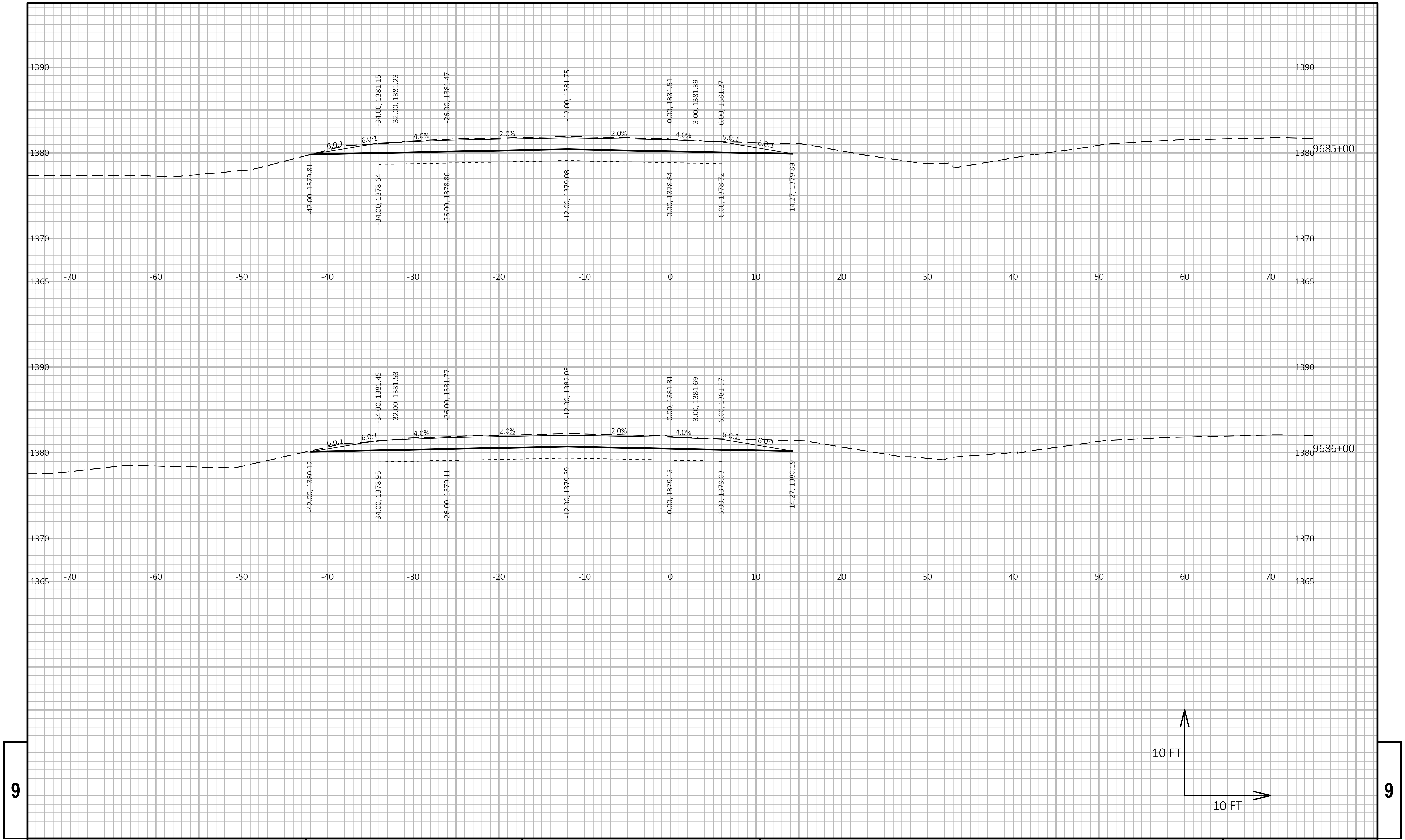
FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090247-xs

PLOT DATE : 2/19/2026 8:32 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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



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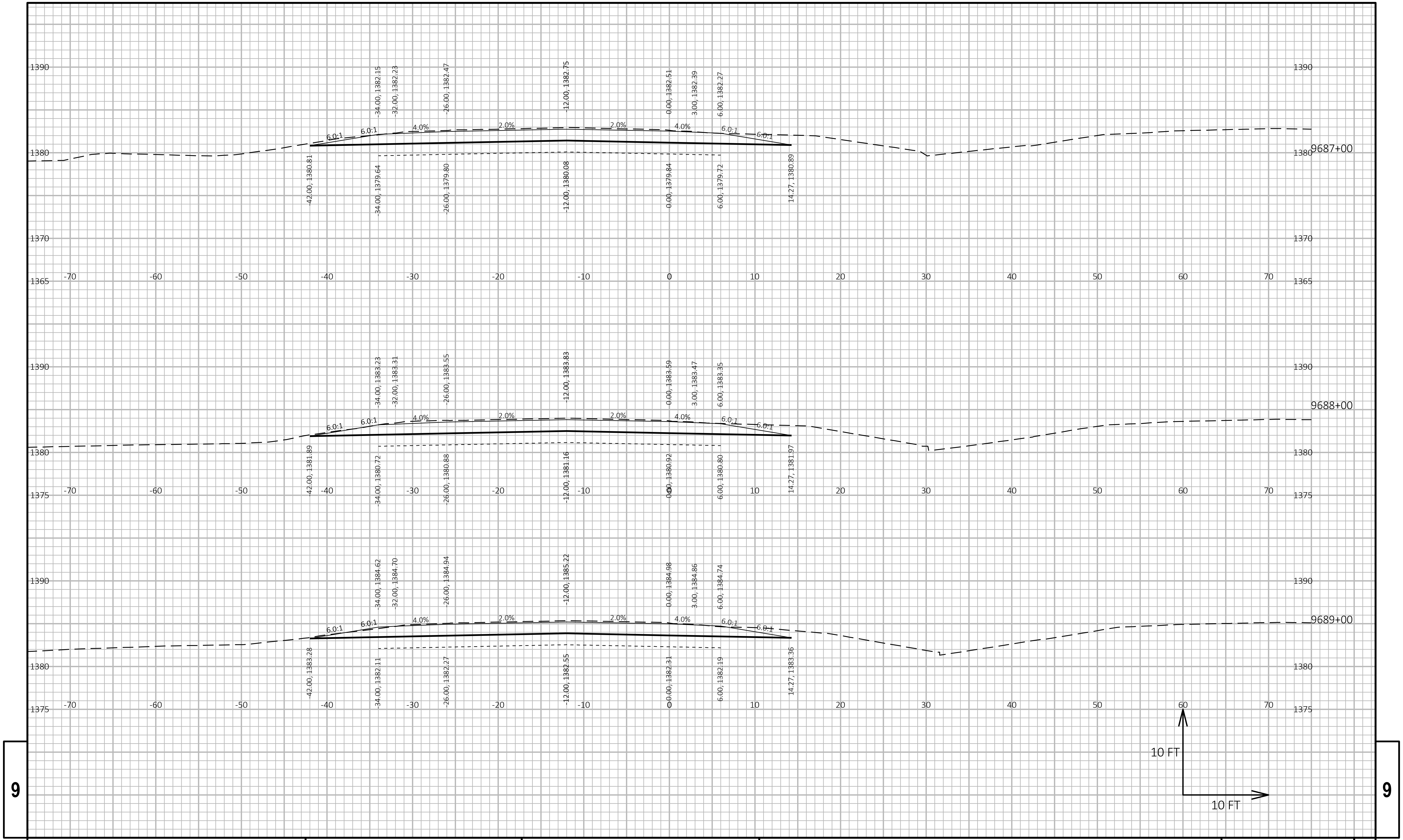
PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 205 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090248-xs

PLOT DATE : 2/19/2026 8:32 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 206	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090249-xs

PLOT DATE : 2/19/2026 8:32 AM

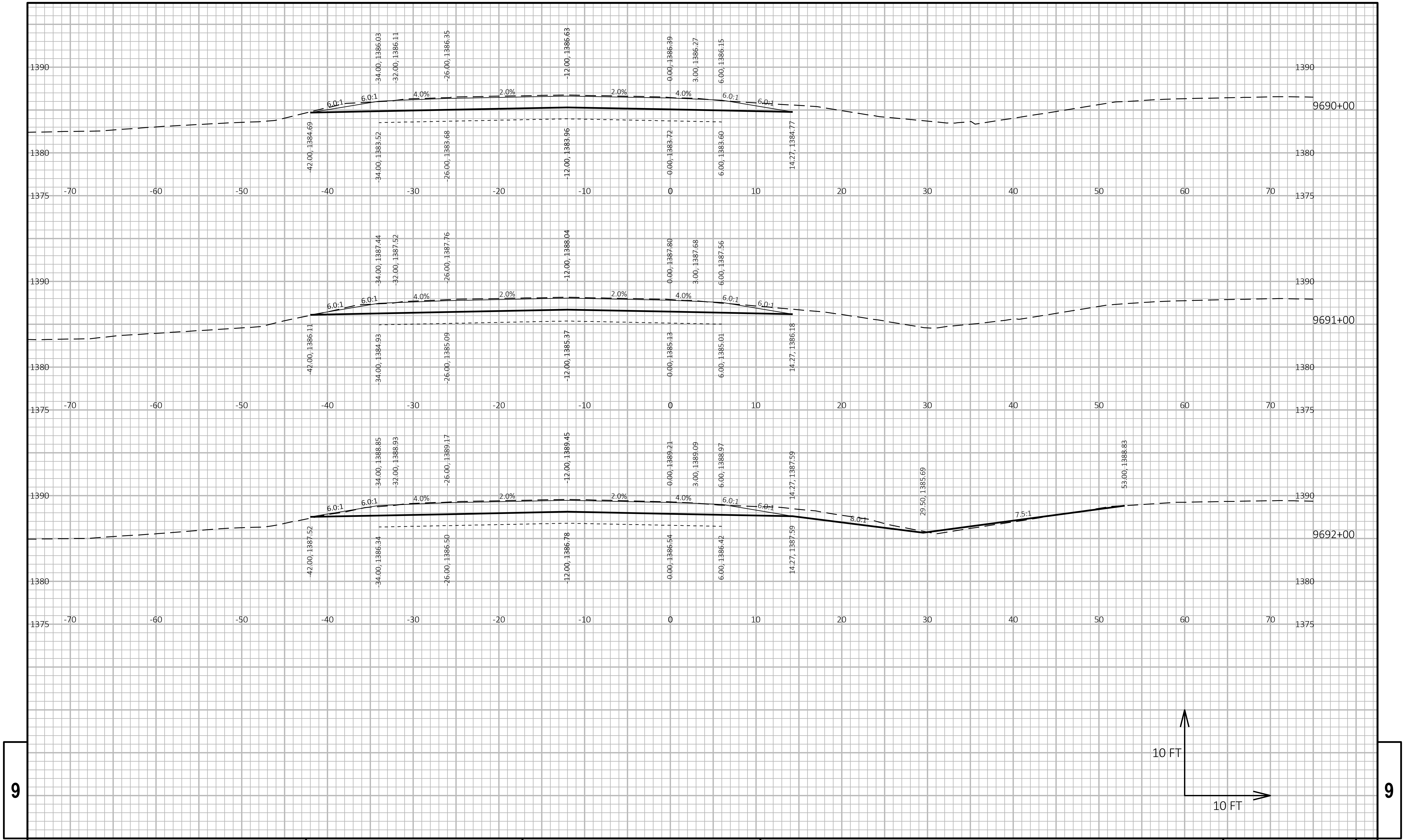
PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49

9



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PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 207	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090250-xs

PLOT DATE : 2/19/2026 8:32 AM

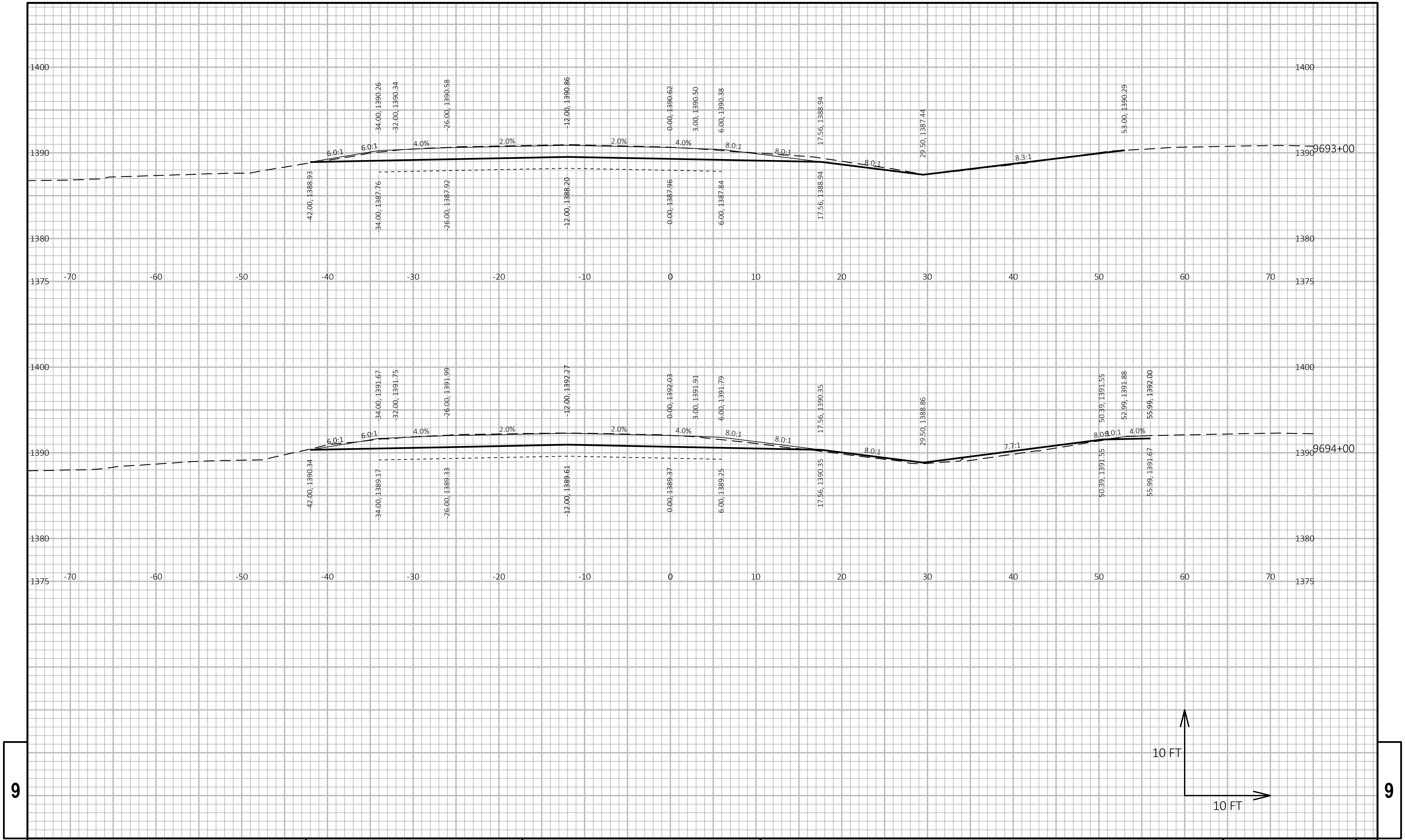
PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49

9



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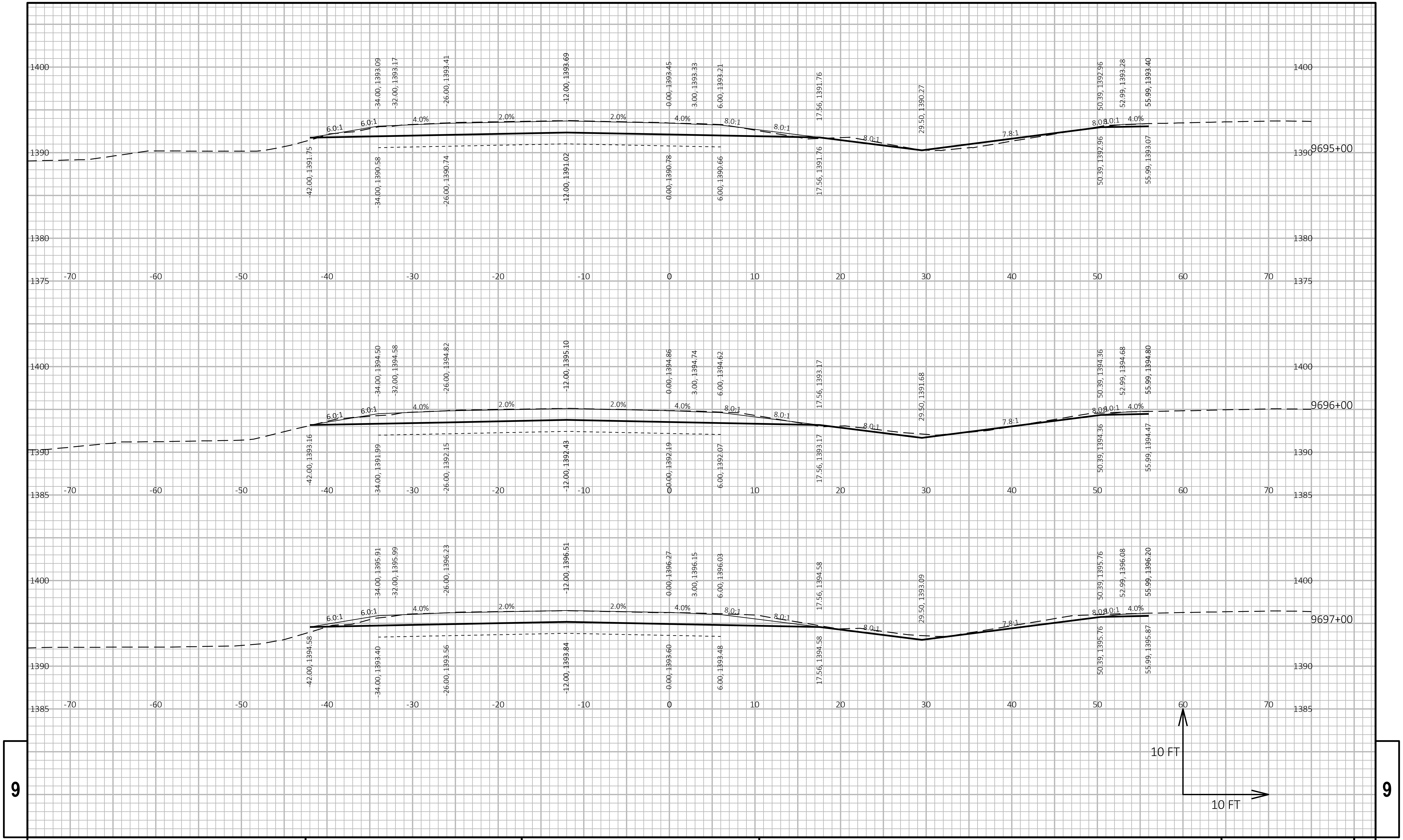
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 208	E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090251-xs
PLOT DATE : 2/19/2026 8:32 AM PLOT BY : HABERKORN, DEVEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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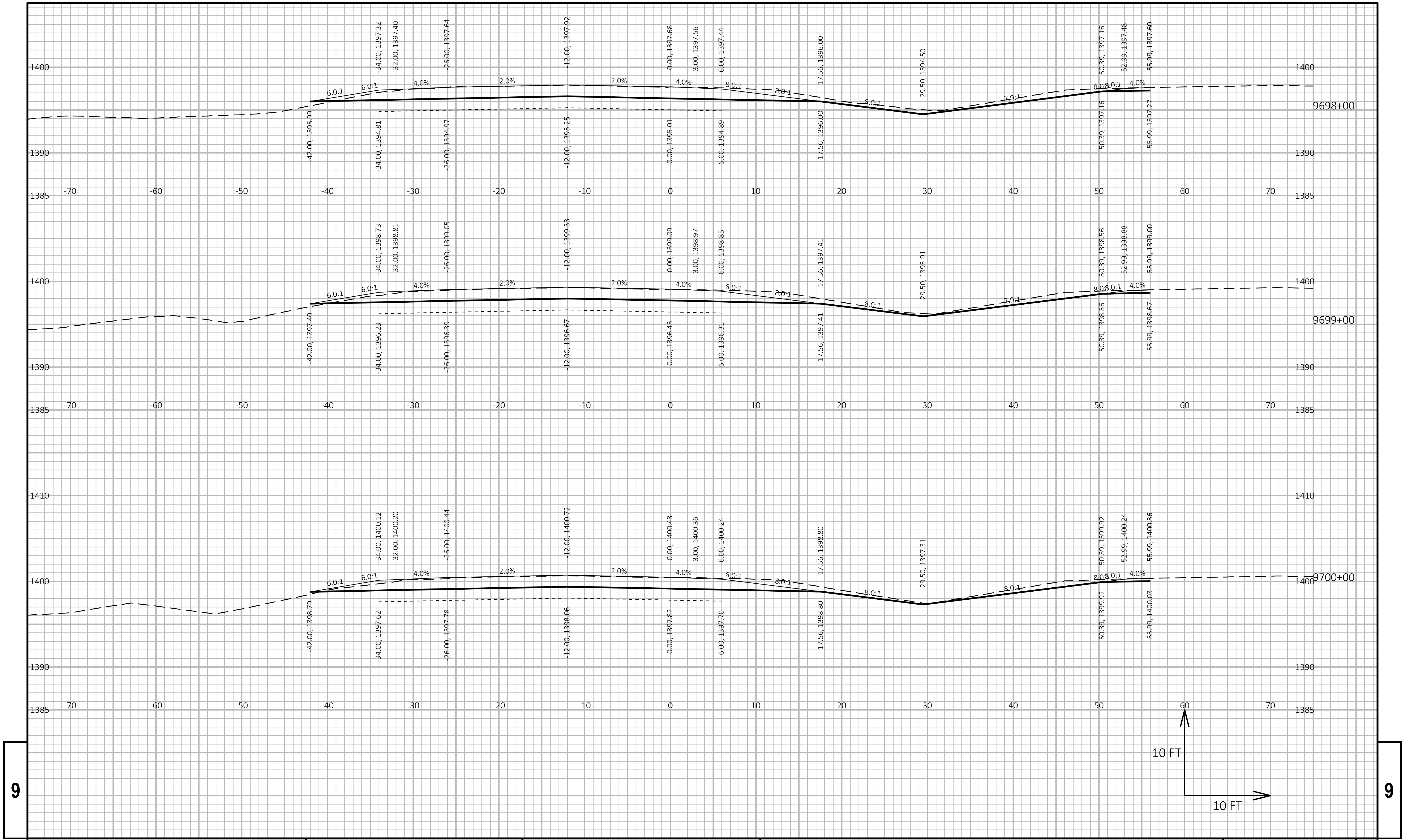
PROJECT NO: 1053-07-85
HWY: STH 29
COUNTY: MARATHON
CROSS SECTIONS: STH 29 WB
SHEET 209
E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090252-xs
PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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PROJECT NO: 1053-07-85

HWY: STH 29

COUNTY: MARATHON

CROSS SECTIONS: STH 29 WB

SHEET 210

E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG

LAYOUT NAME - 090253-xs

PLOT DATE : 2/19/2026 8:32 AM

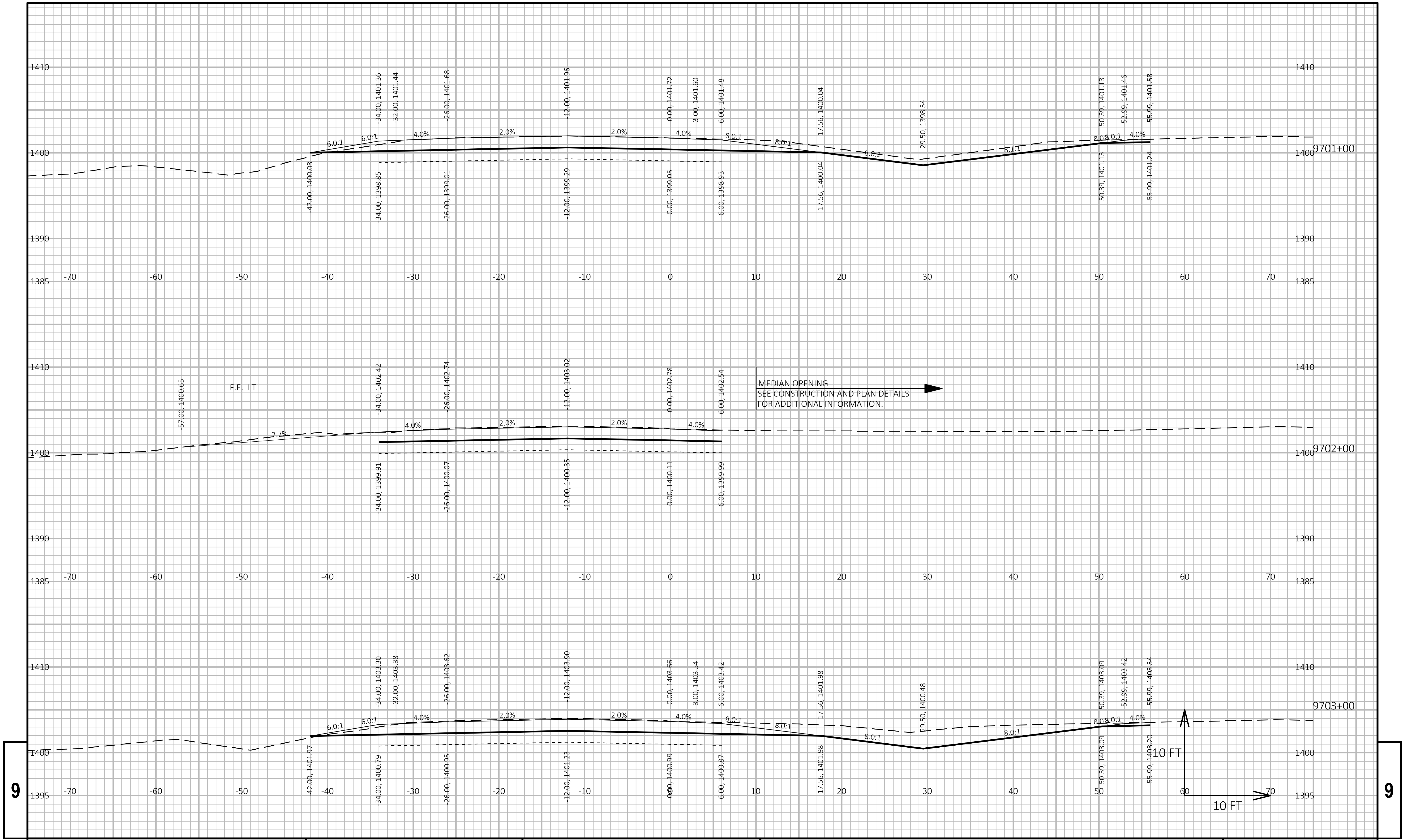
PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49

9



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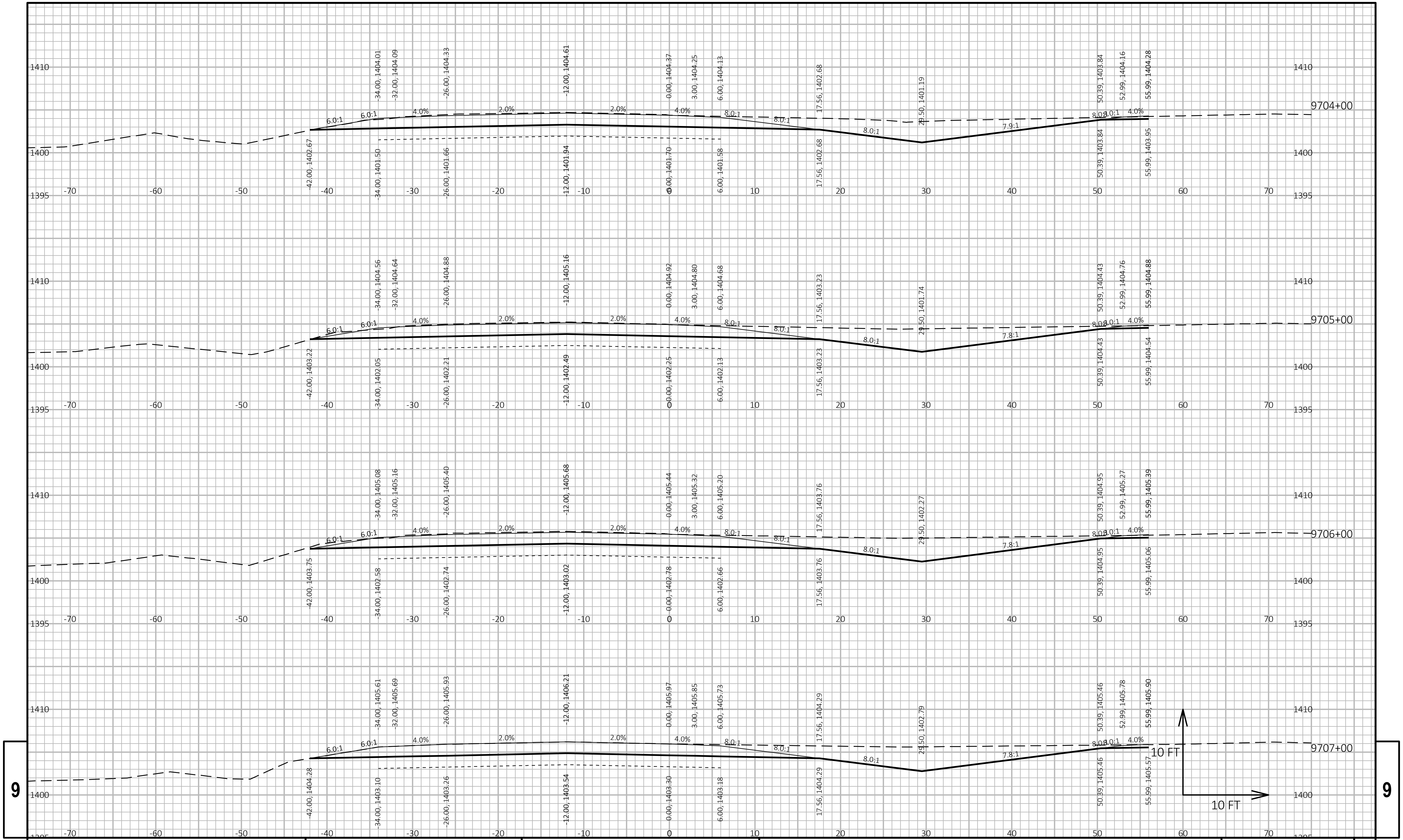
PROJECT NO: 1053-07-85	HWY: STH 29	COUNTY: MARATHON	CROSS SECTIONS: STH 29 WB	SHEET 211	E



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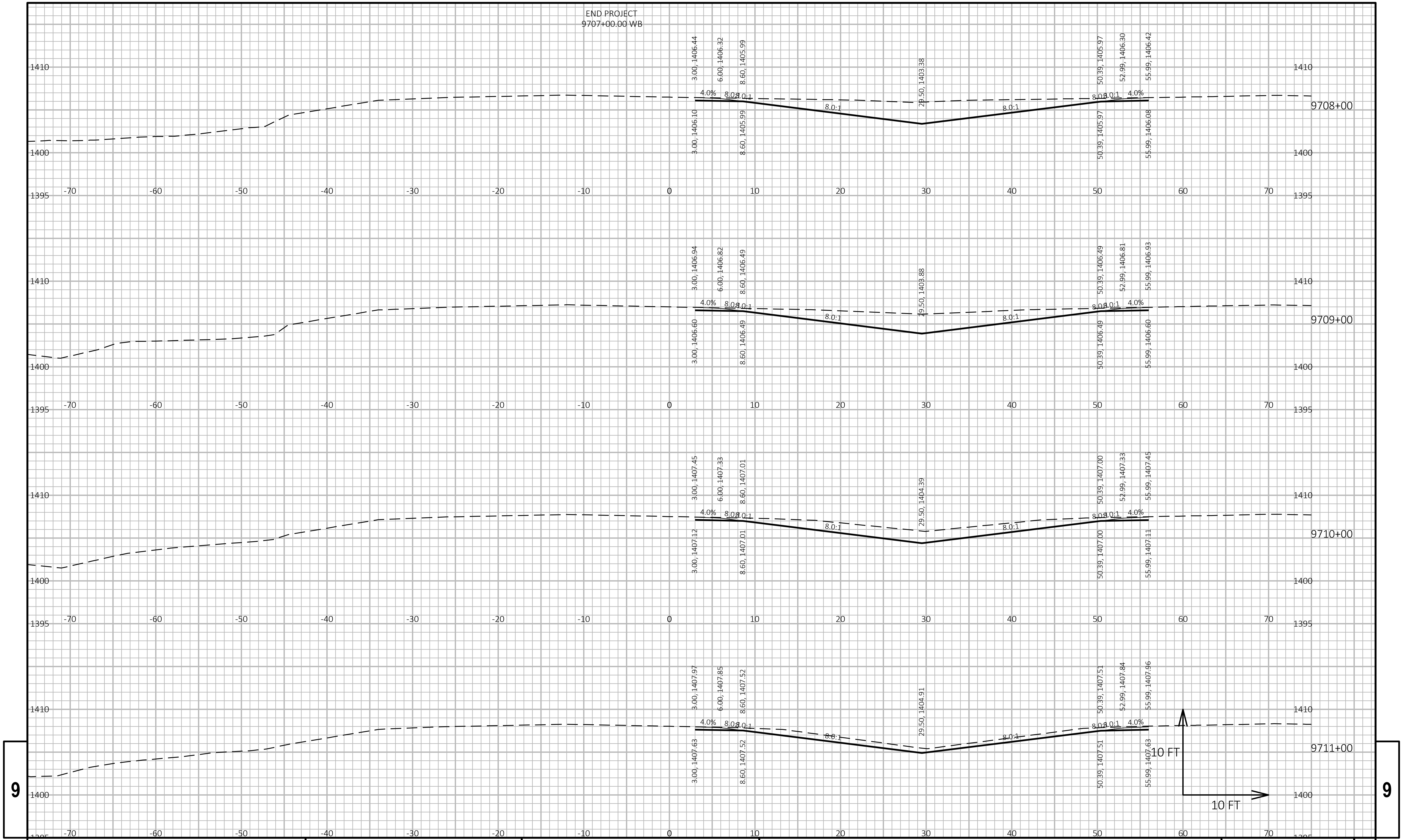
9

PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 212 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090255-xs

PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET

E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090256-xs

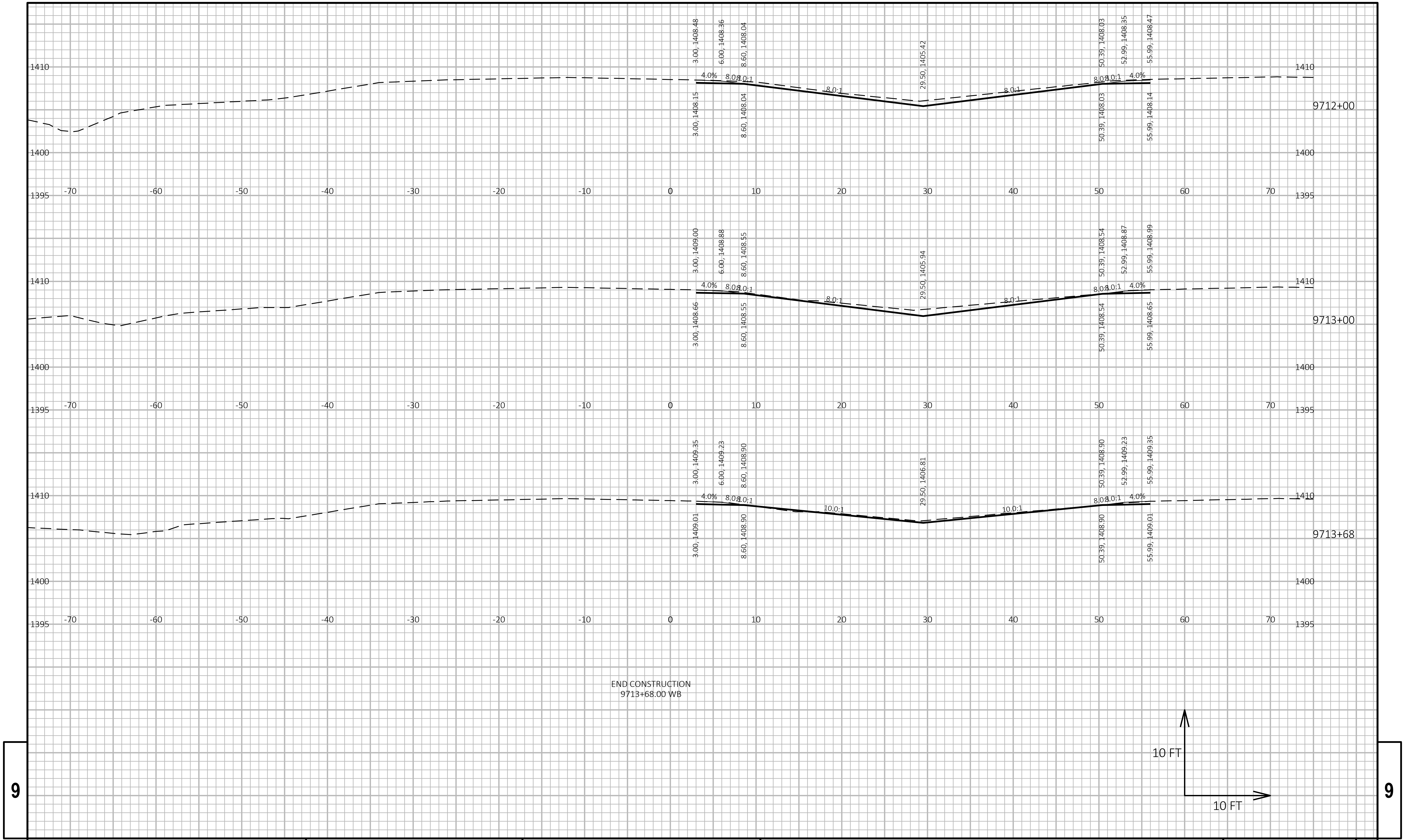
PLOT DATE : 2/19/2026 8:32 AM

PLOT BY : HABERKORN, DEVEN

PLOT NAME :

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

WISDOT/CADDS SHEET 49



END CONSTRUCTION
9713+68.00 WB

9

PROJECT NO: 1053-07-85 | HWY: STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STH 29 WB | SHEET 214 | E

FILE NAME : S:\MAD\2000--2099\2089\023\DRAWINGS\CAD\10530715\SHEETS\1053-07-85\090201-XS.DWG
LAYOUT NAME - 090257-xs

PLOT DATE : 2/19/2026 8:32 AM
PLOT BY : HABERKORN, DEVEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov