

ORDER OF SHEETS

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

TOTAL SHEETS = 60



DESIGN DESIGNATION

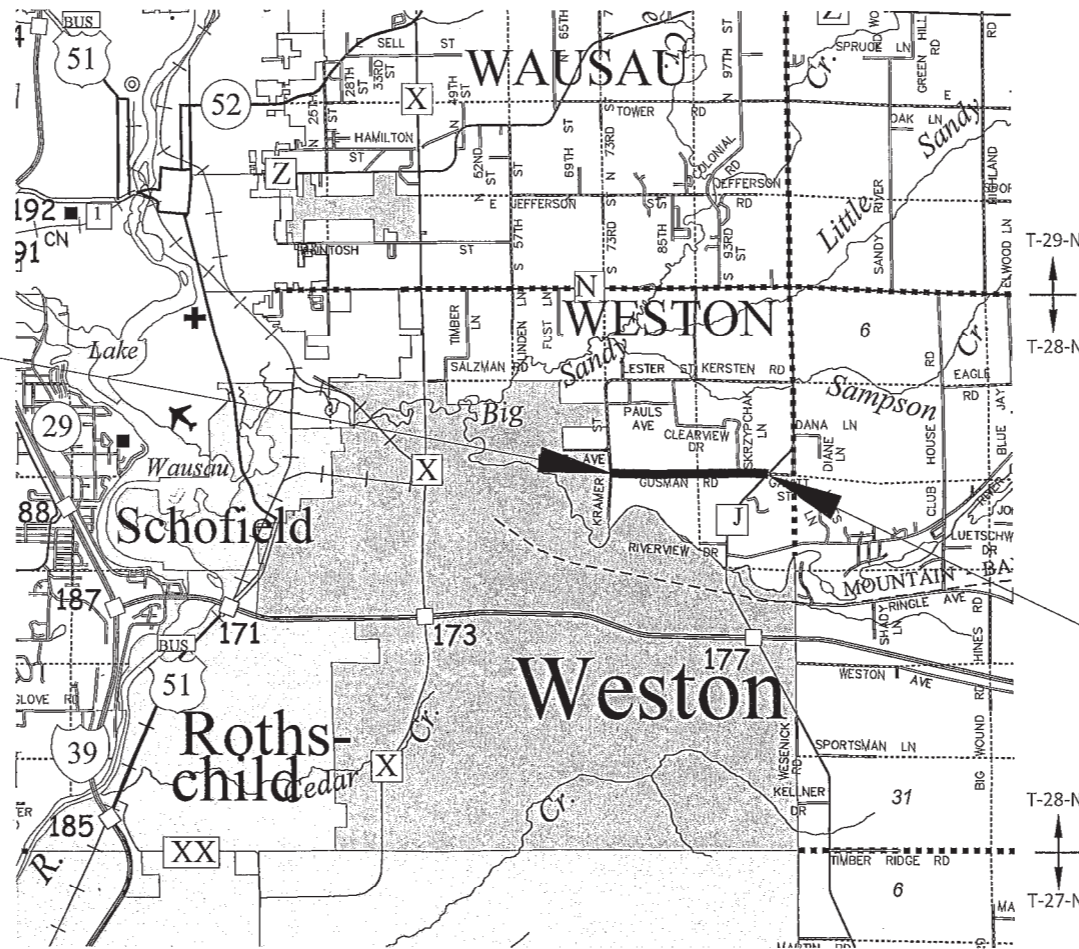
A.A.D.T.	2021	=	240
A.A.D.T.	2024	=	250
D.H.V.		=	10
D.D.		=	3.75
T.		=	13.75
DESIGN SPEED		=	45
ESALS		=	68,000

CONVENTIONAL SYMBOLS

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

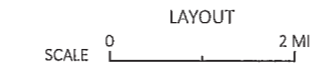
PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

BEGIN PROJECT  
 STA 0+60.00  
 X = 306,890.517  
 Y = 186,452.908



END PROJECT  
 STA 89+46  
 X = 315,772.481  
 Y = 186,434.566

R-7-E    R-8-E    R-8-E    R-9-E



TOTAL NET LENGTH OF CENTERLINE = 1.68 MILES

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 18.

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 PLAN OF PROPOSED IMPROVEMENT  
**T WESTON, GUSMAN RD**  
 KRAMER LANE TO CTH J  
 LOCAL STREET  
 MARATHON COUNTY

STATE PROJECT NUMBER  
**6999-00-83**

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6999-00-83	WISC 2024330	1

ACCEPTED FOR THE TOWN OF WESTON  
 DATE: 12-4-23   
 (Signature)

ORIGINAL PLANS PREPARED BY

**BECHER HOPPE**

12-4-23   
 (DATE) (SIGNATURE)

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

PREPARED BY	BECHER HOPPE ASSOCIATES, INC
Surveyor	AARON WALLNER, PE
Designer	MICHAEL GRAGE, PE
Project Manager	N/A
Regional Examiner	DAN ERVA, PE
Regional Supervisor	

APPROVED FOR THE DEPARTMENT  
 DATE: 12/05/2023   
 (Signature)

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**GENERAL NOTES**

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF A LANDMARK IN ALL AREAS WHERE SUCH LANDMARK MAY EXIST. THE CONTRACTOR SHALL CONTACT THE COUNTY SURVEYOR PRIOR TO BREAKING GROUND.

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

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

THE LOCATION OF ALL DRIVEWAYS SHALL REMAIN AT THEIR EXISTING LOCATION UNLESS DIRECTED OTHERWISE BY THE ENGINEER. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

CONDUCT CONSTRUCTION OPERATIONS SUCH THAT WATER IS NOT TRAPPED ON THE ROADWAY OR COLD-IN-PLACE RECYCLE SURFACE.

THE LOCATION OF CONSTRUCTION MATCH POINTS ON SIDE ROADS SHALL BE AT THE FURTHEST OUT RADIUS RETURN POINT AS SHOWN IN THE DETAILS OR AS DETERMINED BY THE ENGINEER.

HORIZONTAL ALIGNMENTS ARE BASED ON BEST FITTING OF SURVEYED CENTERLINE SHOTS AND AS-BUILT PLANS. ADJUSTMENTS MAY BE NEEDED TO FIT ACTUAL FIELD CONDITIONS WHEN DIRECTED BY THE ENGINEER. ADJUSTMENTS ARE INCIDENTAL TO THE ITEM "RESURFACING REFERENCE".

HMA PAVEMENT TONNAGE CALCULATIONS ARE BASED ON 115 LB/SY-IN.

R/W APPROXIMATED ON PLAN SHEETS BASED ON MARATHON COUNTY GIS.

RESHAPE, SEED, AND FERTILIZE ANY PREVIOUSLY GRASSED AREAS THAT ARE DISTURBED BY OPERATIONS OUTSIDE THE NORMAL CONSTRUCTION LIMITS.

EXISTING SIGNS SHALL REMAIN IN PLACE UNLESS DIRECTED BY THE ENGINEER.

**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	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-TURF			.25			.27			.28			.30
			.32			.34			.36			.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 = 13.74 ACRES  
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.25 ACRES

ELECTRICITY

WISCONSIN PUBLIC SERVICE  
 1700 SHERMAN ST  
 WAUSAU, WI, 54401  
 ATTN: DAVE SCHNEIDER  
 TEL: (715) 848-7453  
 CELL: (715) 218-9408

MARATHON COUNTY CONTACT

MARATHON COUNTY HIGHWAY DEPARTMENT  
 JAMES GRIESBACH  
 HIGHWAY COMMISSIONER  
 1430 WEST STREET  
 WAUSAU, WI 54401  
 PHONE: (715) 261-1800  
 EMAIL: james.griesbach@co.marathon.wi.us

WDNR CONTACT

DEPARTMENT OF NATURAL RESOURCES  
 JAY SCHEIFELBEIN  
 2984 SHAWANO AVE.  
 GREEN BAY, WI 54313  
 PHONE: (920) 360-3784  
 EMAIL: jeremiah.schiefelbein@wisconsin.gov

MARATHON COUNTY SURVEYOR

DAVID DECKER  
 210 RIVER DRIVE  
 WAUSAU, WI 54403  
 PHONE: (715) 261-6026  
 EMAIL: dave.decker@co.marathon.wi.us

GAS/PETROLEUM

WISCONSIN PUBLIC SERVICE  
 1700 SHERMAN ST  
 WAUSAU, WI, 54401  
 ATTN: MIKE BOSI  
 TEL: (715) 848-7471  
 CELL: (715) 573-0549

BECHER HOPPE CONTACT

AARON WALLNER  
 PROJECT ENGINEER  
 330 N 4TH STREET  
 WAUSAU, WI 54403  
 PHONE: (715) 845-0426  
 EMAIL: awallner@becherhoppe.com

COMMUNICATIONS

SPECTRUM COMMUNICATIONS  
 853 MCINTOSH P.O. BOX 1818  
 WAUSAU, WI, 54403  
 ATTN: MR. SCOTT OLSEN  
 TEL: (715) 842-3910 EXT 256  
 CELL: (715) 302-1348

WISDOT CONTACT

MICHAEL GRAGE, PE  
 LOCAL PROGRAM PROJECT MANAGER  
 510 HANSON LAKE RD  
 RHINELANDER, WI 54501  
 PHONE: (715) 365-5705  
 EMAIL: michael.grage@dot.wi.gov



Dial **811** or (800)242-8511

www.DiggersHotline.com

STANDARD ABBREVIATIONS

ABUT	ABUTMENT	LT	LEFT
AC	ACRE	LHF	LEFT HAND FORWARD
AGG	AGGREGATE	L	LENGTH OF CURVE
AH	AHEAD	LF	LINEAR FOOT
∠	ANGLE	LC	LONG CHORD OF CURVE
AADT	ANNUAL AVERAGE DAILY TRAFFIC	LS	LUMP SUM
AEW	APRON ENDWALL	MGAL	ONE THOUSAND GALLONS
ASPH	ASPHALTIC	MH	MANHOLE
BK	BACK	ML OR M/L	MATCH LINE
BC	BACK OF CURB	NOM	NOMINAL
BAD	BASE AGGREGATE DENSE	NC	NORMAL CROWN
BL OR B/L	BASE LINE	NB	NORTHBOUND
BM	BENCH MARK	NO	NUMBER
CB	CATCH BASIN	OD	OUTSIDE DIAMETER
CL OR C/L	CENTER LINE	PAVT	PAVEMENT
Δ	CENTRAL ANGLE OR DELTA	PLE	PERMANENT LIMITED EASEMENT
CE	COMMERCIAL ENTRANCE	PC	POINT OF CURVATURE
CONC	CONCRETE	PI	POINT OF INTERSECTION
CSW	CONCRETE SIDEWALK	PT	POINT OF TANGENCY
CONST	CONSTRUCTION	PCC	PORTLAND CEMENT CONCRETE
CP	CONTROL POINT	LB	POUND
CO	COUNTY	PSI	POUNDS PER SQUARE INCH
CTH	COUNTY TRUCK HIGHWAY	PE	PRIVATE ENTRANCE
CY	CUBIC YARD	PROJ	PROJECT
CP	CULVERT PIPE	PL	PROPERTY LINE
CPCA	CULVERT PIPE CORRUGATED ALUMINUM	PRW	PROPOSED RIGHT OF WAY
CPCPE	CULVERT PIPE CORRUGATED POLYETHYLENE	R	RADIUS
CPCPP	CULVERT PIPE CORRUGATED POLYPROPYLENE	RL OR R/L	REFERENCE LINE
CPCS	CULVERT PIPE CORRUGATED STEEL	REQD	REQUIRED
CPCSAC	CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED	RT	RIGHT
CPCSPC	CULVERT PIPE CORRUGATED STEEL POLYMER COATED	RHF	RIGHT HAND FORWARD
CPRC	CULVERT PIPE REINFORCED CONCRETE	R/W	RIGHT OF WAY
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL	RD	ROAD
CPS	CULVERT PIPE SALVAGED	RDWY	ROADWAY
CPT	CULVERT PIPE TEMPORARY	SHLDR	SHOULDER
C & G	CURB AND GUTTER	SW	SIDEWALK
D	DEGREE OF CURVE	SB	SOUTHBOUND
DHV	DESIGN HOUR VOLUME	SPECS	SPECIFICATIONS
DIA	DIAMETER	SF	SQUARE FEET
DD	DIRECTIONAL DISTRIBUTION	SY	SQUARE YARD
DE	DRAINAGE EASEMENT	SDD	STANDARD DETAIL DRAWINGS
DWY	DRIVEWAY	STH	STATE TRUNK HIGHWAY
EA	EACH	STA	STATION
EB	EASTBOUND	SSPC	STORM SEWER PIPE COMPOSITE
EL OR ELEV	ELEVATION	SSCPE	STORM SEWER PIPE CORRUGATED POLYETHYLENE
EMB	EMBANKMENT	SSCPP	STORM SEWER PIPE CORRUGATED POLYPROPYLENE
EW	ENDWALL	SSPNRC	STORM SEWER PIPE NON-REINFORCED CONCRETE
EAT	ENERGY ABSORBING TERMINAL	SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
ESALS	EQUIVALENT SINGLE AXLE LOADS	SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
EXC	EXCAVATION	SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
EBS	EXCAVATION BELOW SUBGRADE	SE	SUPERELEVATION
EXIST	EXISTING	SL OR S/L	SURVEY LINE
FERT	FERTILIZER	TEMP	TEMPORARY
FE	FIELD ENTRANCE	TI	TEMPORARY INTEREST
FL OR F/L	FLOW LINE	TLE	TEMPORARY LIMITED EASEMENT
FT	FOOT	TC	TOP OF CURB
FTMS	FREE TRAFFIC MANAGEMENT SYSTEM	TL OR T/L	TRANSIT LINE
HES	HIGH EARLY STRENGTH	T	TRUCKS (PERCENT OF)
HE	HIGHWAY EASEMENT	TYP	TYPICAL
CWT	HUNDRED WEIGHT	USH	UNITED STATES HIGHWAY
IN DIA	INCH DIAMETER	VAR	VARIABLE
INL	INLET	VC	VERTICAL CURVE
ID	INSIDE DIAMETER	VPC	VERTICAL POINT OF CURVATURE
INTERS	INTERSECTION	VPI	VERTICAL POINT OF INTERSECTION
IH	INTERSTATE HIGHWAY	VPT	VERTICAL POINT OF TANGENCY
INV	INVERT	W	WEST
JT	JOINT	WB	WESTBOUND

2

2

PROJECT NO: 6999-00-83

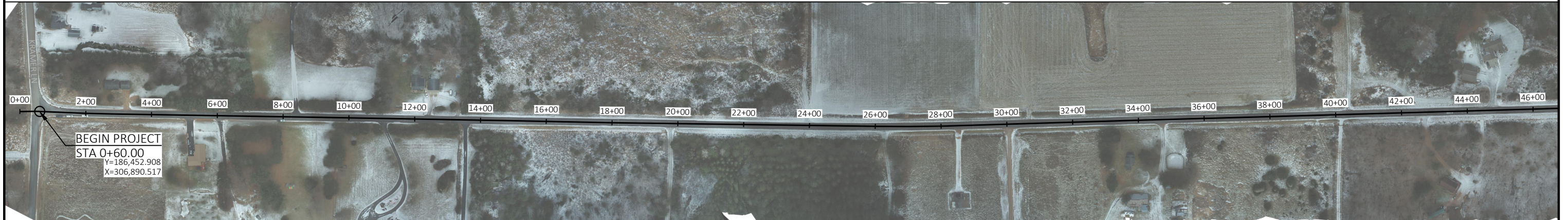
HWY: GUSMAN RD

COUNTY: MARATHON

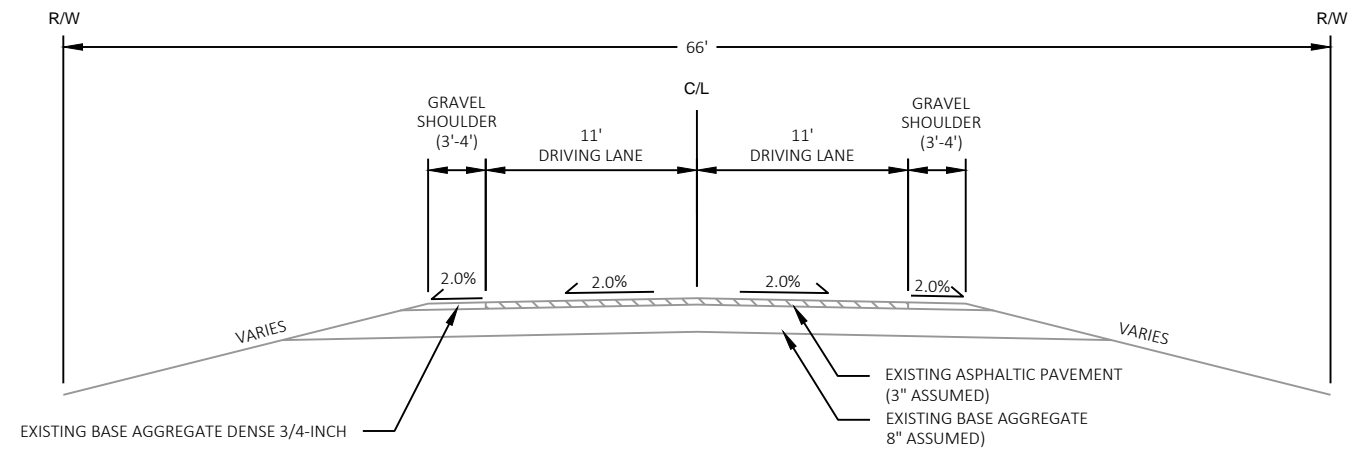
GENERAL NOTES

SHEET

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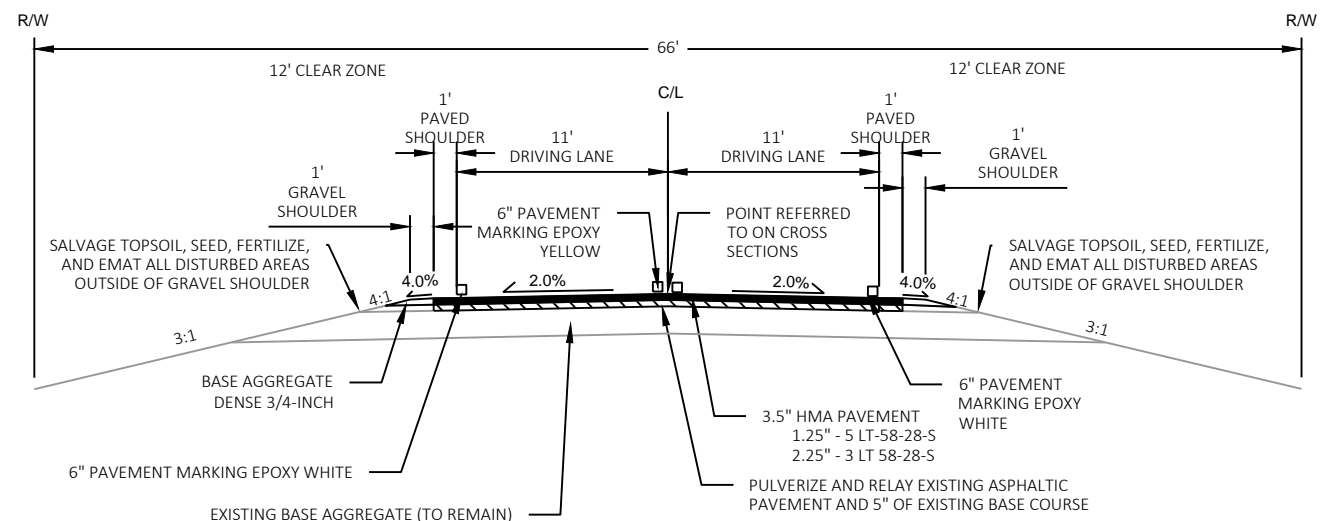


PROJECT NO: 6999-00-83	HWY: GUSMAN RD	COUNTY: MARATHON	PROJECT OVERVIEW	SHEET	E
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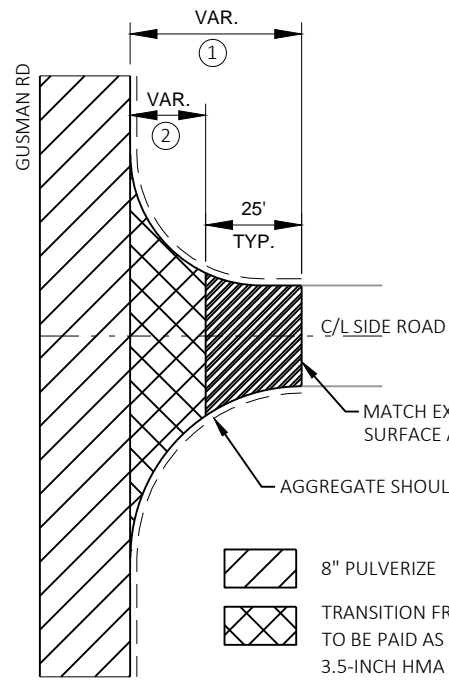
**EXISTING TYPICAL SECTION**

STATION 0+51 - STATION 89+13



**FINISHED TYPICAL SECTION**

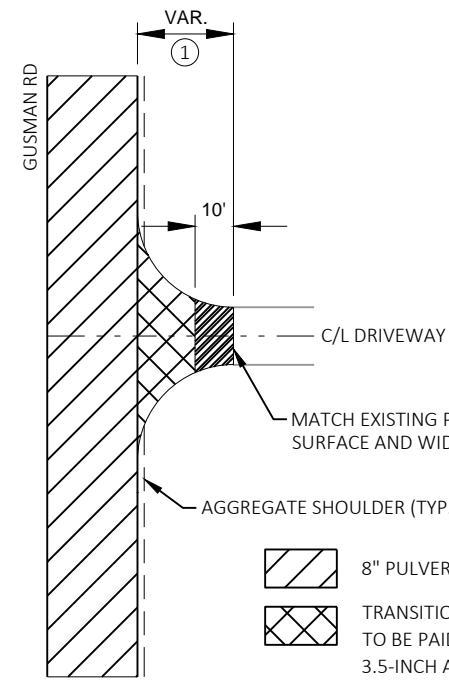
STATION 0+51 - STATION 89+13



- 8" PULVERIZE
- TRANSITION FROM PULVERIZE TO MILL SECTION TO BE PAID AS REMOVING ASPHALTIC SURFACE BUTT JOINTS 3.5-INCH HMA PAVEMENT TO MATCH MAINLINE TYPICAL SECTION
- REMOVING ASPHALTIC SURFACE BUTT JOINTS 3.5-INCH HMA PAVEMENT TO MATCH MAINLINE TYPICAL SECTION

**PAVED SIDE ROADS WITHOUT CURB & GUTTER**

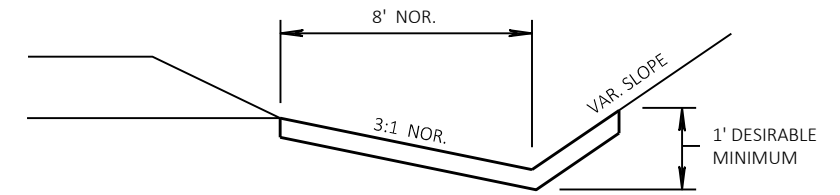
- NOTES:
- ① LENGTH TO FURTHEST RADIUS OR AS DIRECTED BY THE ENGINEER.
  - ② MATCH EXISTING PAVED SURFACE RADII & TAPERS.
- DEPTH OF MILLING FOR REMOVING ASPHALTIC SURFACE BUTT JOINTS VARIES FROM 0" TO 3.5" AS DIRECTED BY THE ENGINEER TO MATCH EXISTING PAVEMENT.
- BUTT JOINT PAVEMENT LIFT THICKNESS SHALL MATCH MAINLINE LIFT THICKNESS



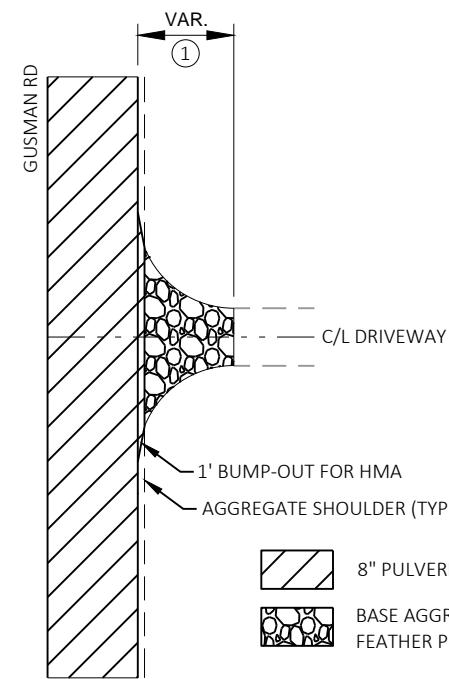
- 8" PULVERIZE
- TRANSITION FROM PULVERIZE TO MILL SECTION TO BE PAID AS REMOVING ASPHALTIC SURFACE BUTT JOINTS 3.5-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- REMOVING ASPHALTIC SURFACE BUTT JOINTS 3.5-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

**PAVED DRIVEWAYS**

- NOTES:
- ① LENGTH TO FURTHEST RADIUS OR AS DIRECTED BY THE ENGINEER.
- MATCH EXISTING PAVED DRIVEWAY SURFACE RADII & TAPERS.
- FIELD VERIFY EXISTING DRAINAGE DIRECTION FOR DRIVEWAYS. GRADE AND PAVE DRIVEWAYS TO MATCH EXISTING DRAINAGE PATTERNS.
- DEPTH OF MILLING FOR REMOVING ASPHALTIC SURFACE BUTT JOINTS VARIES FROM 0" TO 3.5" AS DIRECTED BY THE ENGINEER TO MATCH EXISTING PAVEMENT.



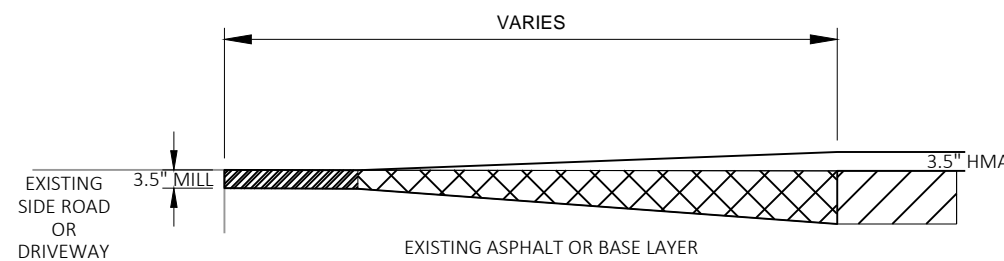
**EROSION MAT DETAIL FOR DITCHES**



- 8" PULVERIZE
- BASE AGGREGATE DENSE 3/4-INCH FEATHER PLACEMENT TO MATCH EXISTING

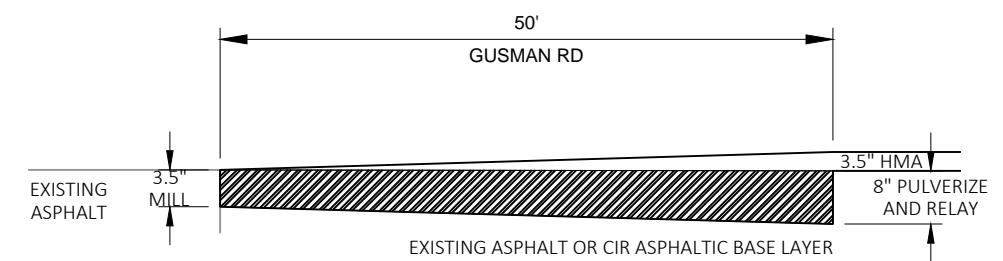
**UNPAVED DRIVEWAYS**

- NOTES:
- ① LENGTH TO FURTHEST RADIUS OR AS DIRECTED BY THE ENGINEER.
- MATCH EXISTING DRIVEWAY SURFACE RADII & TAPERS.
- FIELD VERIFY EXISTING DRAINAGE DIRECTION FOR DRIVEWAYS. GRADE DRIVEWAYS TO MATCH EXISTING DRAINAGE PATTERNS.

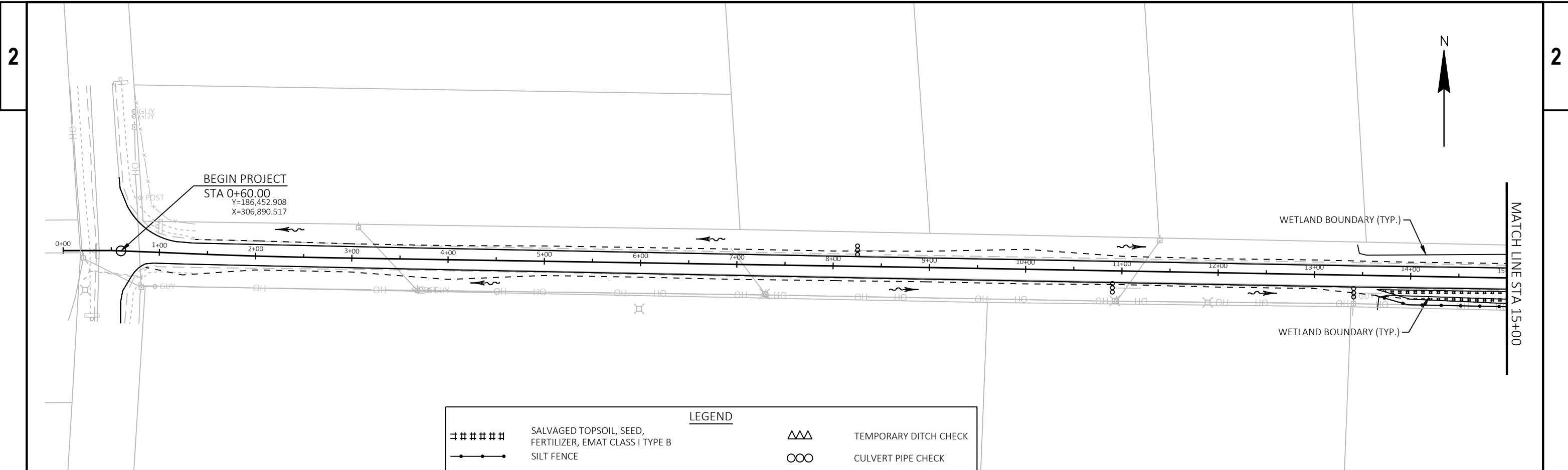


- 8" PULVERIZE
- TRANSITION FROM PULVERIZE TO MILL SECTION TO BE PAID AS REMOVING ASPHALTIC SURFACE BUTT JOINTS 3.5-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- REMOVING ASPHALTIC SURFACE BUTT JOINTS 3.5-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

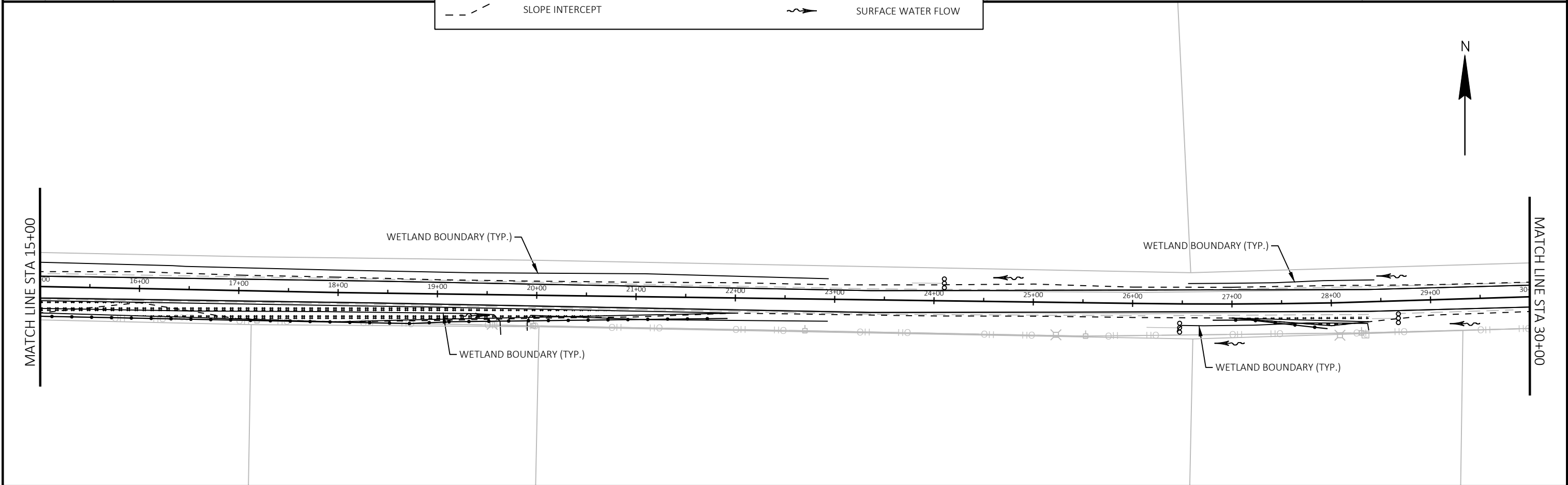
**SIDE ROAD AND DRIVEWAY BUTT JOINT DETAIL**



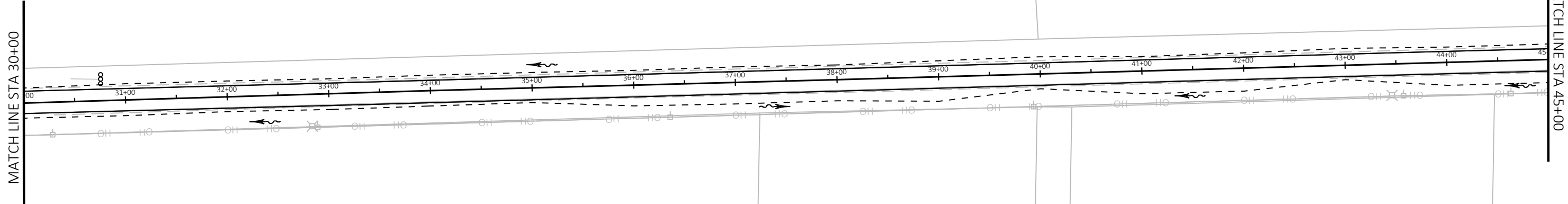
**MAINLINE BUTT JOINT DETAIL**  
STA 00+50 - STA 01+00  
STA 88+50 - STA 89+00



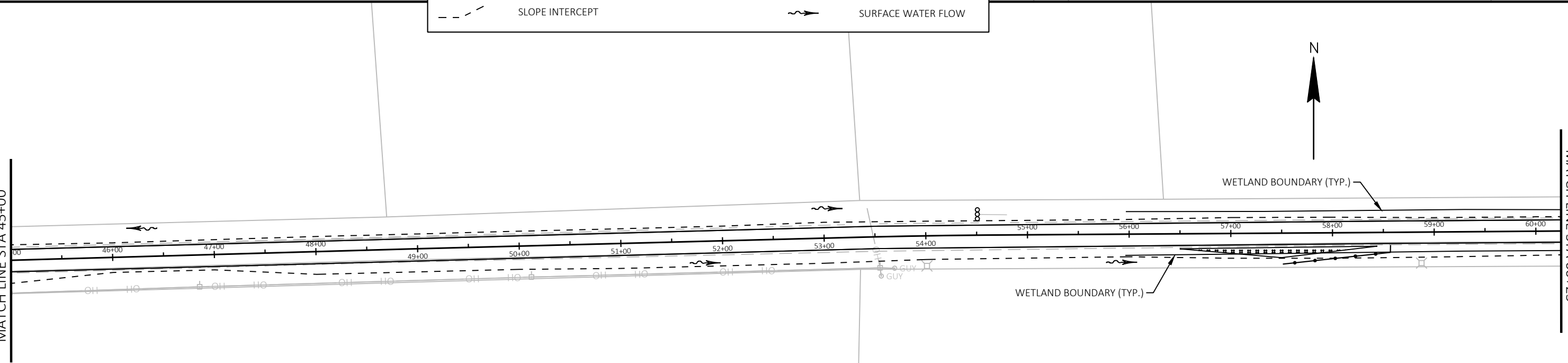
LEGEND	
#####	SALVAGED TOPSOIL, SEED, FERTILIZER, EMAT CLASS I TYPE B
—●—●—●—	SILT FENCE
- - - -	SLOPE INTERCEPT
△△△	TEMPORARY DITCH CHECK
○○○	CULVERT PIPE CHECK
~>	SURFACE WATER FLOW



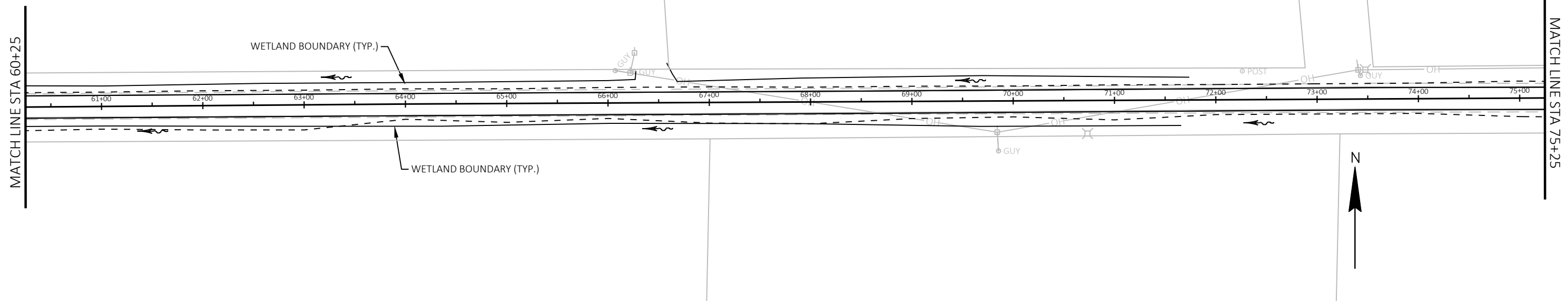
PROJECT NO: 6999-00-83	HWY: GUSMAN RD	COUNTY: MARATHON	EROSION CONTROL	SHEET	<b>E</b>
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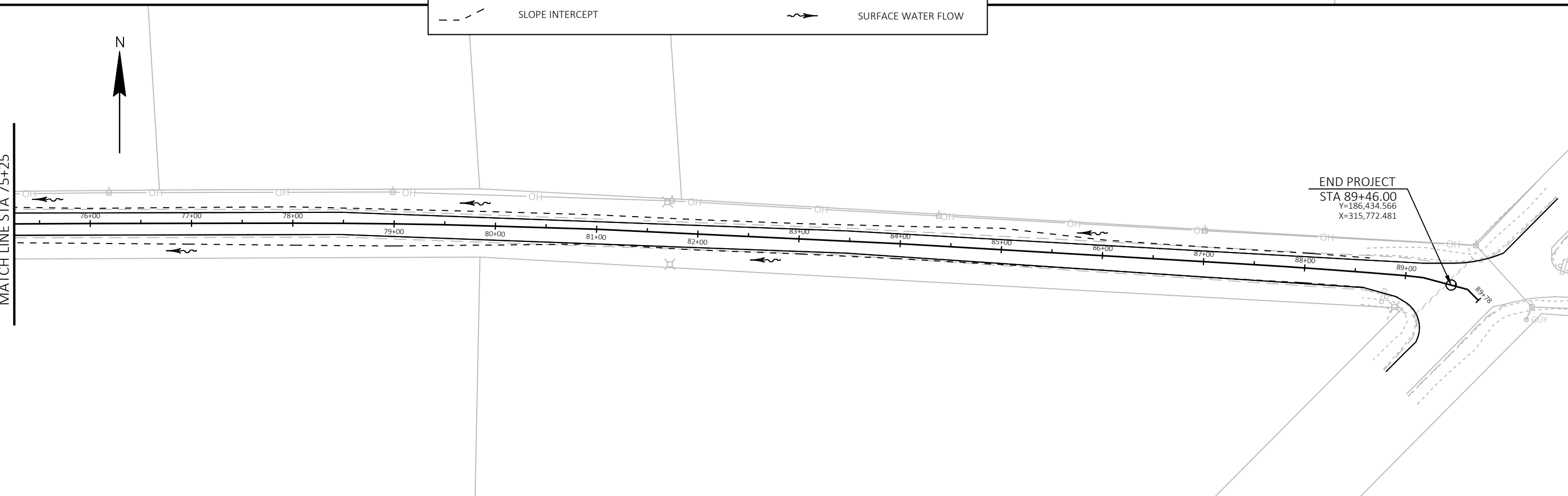
LEGEND	
#####	SALVAGED TOPSOIL, SEED, FERTILIZER, EMAT CLASS I TYPE B
—●—●—●	SILT FENCE
- - - -	SLOPE INTERCEPT
△△△	TEMPORARY DITCH CHECK
∞∞	CULVERT PIPE CHECK
~>	SURFACE WATER FLOW







LEGEND			
#####	SALVAGED TOPSOIL, SEED, FERTILIZER, EMAT CLASS I TYPE B	△△△	TEMPORARY DITCH CHECK
—●—●—●—	SILT FENCE	○○	CULVERT PIPE CHECK
- - - - -	SLOPE INTERCEPT	~ ~ ~	SURFACE WATER FLOW



Estimate Of Quantities

6999-00-83

Line	Item	Item Description	Unit	Total	Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	204.000	204.000
0004	208.0100	Borrow	CY	304.000	304.000
0006	213.0100	Finishing Roadway (project) 01. 6999-00-83	EACH	1.000	1.000
0008	305.0110	Base Aggregate Dense 3/4-Inch	TON	836.000	836.000
0010	325.0100	Pulverize and Relay	SY	27,334.000	27,334.000
0012	455.0605	Tack Coat	GAL	1,659.000	1,659.000
0014	460.2000	Incentive Density HMA Pavement	DOL	3,815.000	3,815.000
0016	460.5223	HMA Pavement 3 LT 58-28 S	TON	3,066.000	3,066.000
0018	460.5225	HMA Pavement 5 LT 58-28 S	TON	1,703.000	1,703.000
0020	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	48.000	48.000
0022	619.1000	Mobilization	EACH	1.000	1.000
0024	624.0100	Water	MGAL	195.000	195.000
0026	625.0500	Salvaged Topsoil	SY	1,039.000	1,039.000
0028	627.0200	Mulching	SY	100.000	100.000
0030	628.1504	Silt Fence	LF	1,164.000	1,164.000
0032	628.1520	Silt Fence Maintenance	LF	1,164.000	1,164.000
0034	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0036	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0038	628.2004	Erosion Mat Class I Type B	SY	1,039.000	1,039.000
0040	628.7504	Temporary Ditch Checks	LF	450.000	450.000
0042	628.7555	Culvert Pipe Checks	EACH	37.000	37.000
0044	629.0210	Fertilizer Type B	CWT	1.000	1.000
0046	630.0130	Seeding Mixture No. 30	LB	41.000	41.000
0048	633.5200	Markers Culvert End	EACH	4.000	4.000
0050	643.0300	Traffic Control Drums	DAY	100.000	100.000
0052	643.0900	Traffic Control Signs	DAY	630.000	630.000
0054	643.5000	Traffic Control	EACH	1.000	1.000
0056	646.2020	Marking Line Epoxy 6-Inch	LF	35,160.000	35,160.000
0058	646.6120	Marking Stop Line Epoxy 18-Inch	LF	37.000	37.000
0060	650.8000	Construction Staking Resurfacing Reference	LF	8,886.000	8,886.000
0062	690.0150	Sawing Asphalt	LF	100.000	100.000
0064	740.0440	Incentive IRI Ride	DOL	4,443.000	4,443.000
0066	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0068	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000

EROSION CONTROL

CATEGORY	STATION TO	STATION	LOCATION	625.0500	627.0200	628.1504	628.1520	628.1905	628.1910	628.2004	628.7504	628.7555	629.0210	630.0130	633.5200	REMARKS
				SALVAGED TOPSOIL SY	MULCHING SY	SILT FENCE LF	SILT FENCE MAINTENANCE LF	MOBILIZATIONS EROSION CONTROL EACH	MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	EROSION MAT CLASS I SY	TEMPORARY DITCH CHECKS LF	CULVERT PIPE CHECKS EACH	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 30 LB	MARKERS CULVERT END EACH	
0010	0+60	- 89+46	UNDISTRIBUTED	-	100	100	100	2	1	-	450	5	0.35	21	-	GUSMAN RD
0010	0+23	- 0+95	RT	-	-	-	-	-	-	-	-	3	-	-	2	UNDER KRAMER LN
0010	8+27	- 8+27	LT	-	-	-	-	-	-	-	-	3	-	-	-	PRIVATE DRIIVEWAY
0010	10+89	- 10+89	RT	-	-	-	-	-	-	-	-	3	-	-	-	PRIVATE DRIIVEWAY
0010	13+40	- 13+40	RT	-	-	-	-	-	-	-	-	3	-	-	-	PRIVATE DRIIVEWAY
0010	13+60	- 22+00	RT	949	-	835	835	-	-	949	-	-	0.60	17	-	
0010	24+10	- 24+10	LT	-	-	-	-	-	-	-	-	3	-	-	-	PRIVATE DRIIVEWAY
0010	26+50	- 26+50	RT	-	-	-	-	-	-	-	-	3	-	-	-	PRIVATE DRIIVEWAY
0010	27+00	- 29+00	RT	79	-	116	116	-	-	79	-	-	0.05	1	-	
0010	28+60	- 28+60	RT	-	-	-	-	-	-	-	-	3	-	-	-	PRIVATE DRIIVEWAY
0010	30+71	- 30+71	LT	-	-	-	-	-	-	-	-	3	-	-	-	PRIVATE DRIIVEWAY
0010	54+50	- 54+50	LT	-	-	-	-	-	-	-	-	3	-	-	-	PRIVATE DRIIVEWAY
0010	56+50	- 58+50	RT	11	-	113	113	-	-	11	-	-	0.01	1	-	
0010	89+38	- 38+38	LT/RT	-	-	-	-	-	-	-	-	5	-	-	2	GUSMAN RD
TOTAL 0010				1,039	100	1,164	1,164	2	1	1,039	450	37	1.00	41	4	

REMOVALS

OVERALL PROJECT ITEMS

CATEGORY	STATION TO	STATION	LOCATION	643.0300	643.0900	643.5000	650.8000	REMARKS
				TRAFFIC CONTROL DRUMS DAY	TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL EACH	CONSTRUCTION STAKING RESURFACING REFERENCE LF	
0010	0+60	- 89+46	ML	-	-	1	8,886	GUSMAN RD
0010	0+60	- 0+60	KRAMER LN	-	300	-	-	
0010	73+15	- 73+15	CLEARVIEW DR	-	30	-	-	
0010	89+46	- 89+46	CTHJ	-	300	-	-	
0010	UNDISTRIBUTED			100	-	-	-	
TOTAL 0010				100	630	1	8,886	

CATEGORY	STATION TO	STATION	LOCATION	204.0115	690.0150	REMARKS
				REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	SAWING ASPHALT LF	
0010	0+60	- 1+10	ML	337	-	B.O.P.
0010	4+58	- 4+77	RT	27	-	PRIVATE DRIVEWAY
0010	5+52	- 5+66	RT	20	-	PRIVATE DRIVEWAY
0010	7+84	- 7+97	LT	22	-	PRIVATE DRIVEWAY
0010	10+48	- 10+65	RT	26	-	PRIVATE DRIVEWAY
0010	12+97	- 13+13	RT	32	-	PRIVATE DRIVEWAY
0010	72+47	- 72+87	LT	58	-	CLEARVIEW DRIVE
0010	80+64	- 80+85	LT	34	-	PRIVATE DRIVEWAY
0010	88+96	- 89+46	ML	249	-	E.O.P.
0010	UNDISTRUITED				100	
TOTAL 0010				805	100	

3

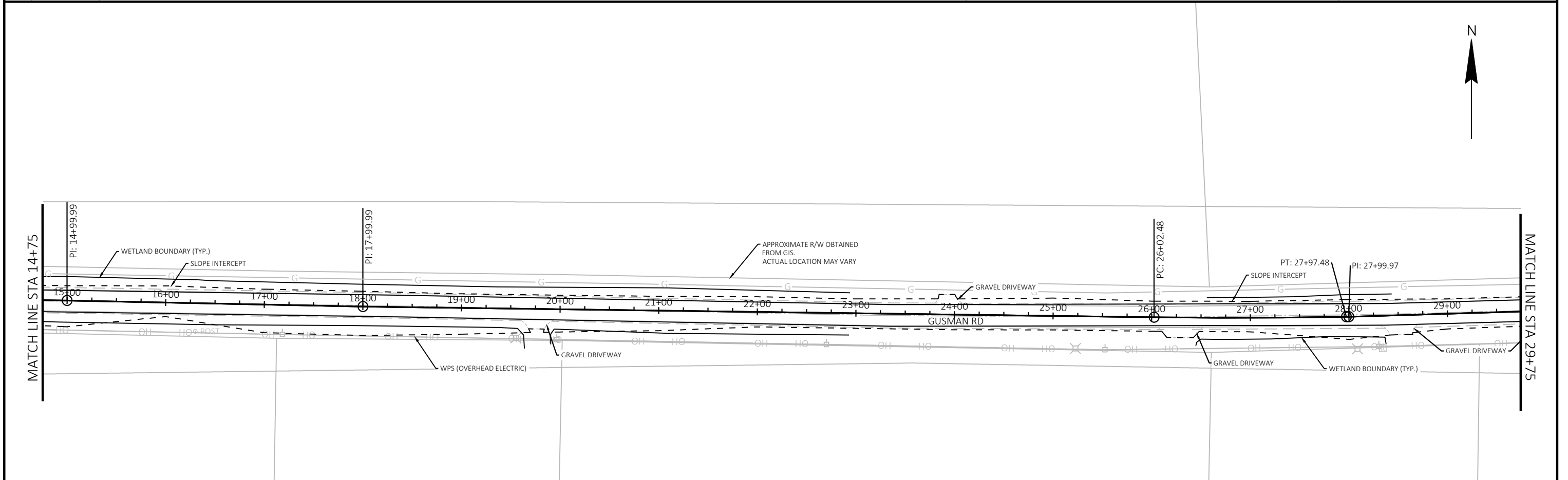
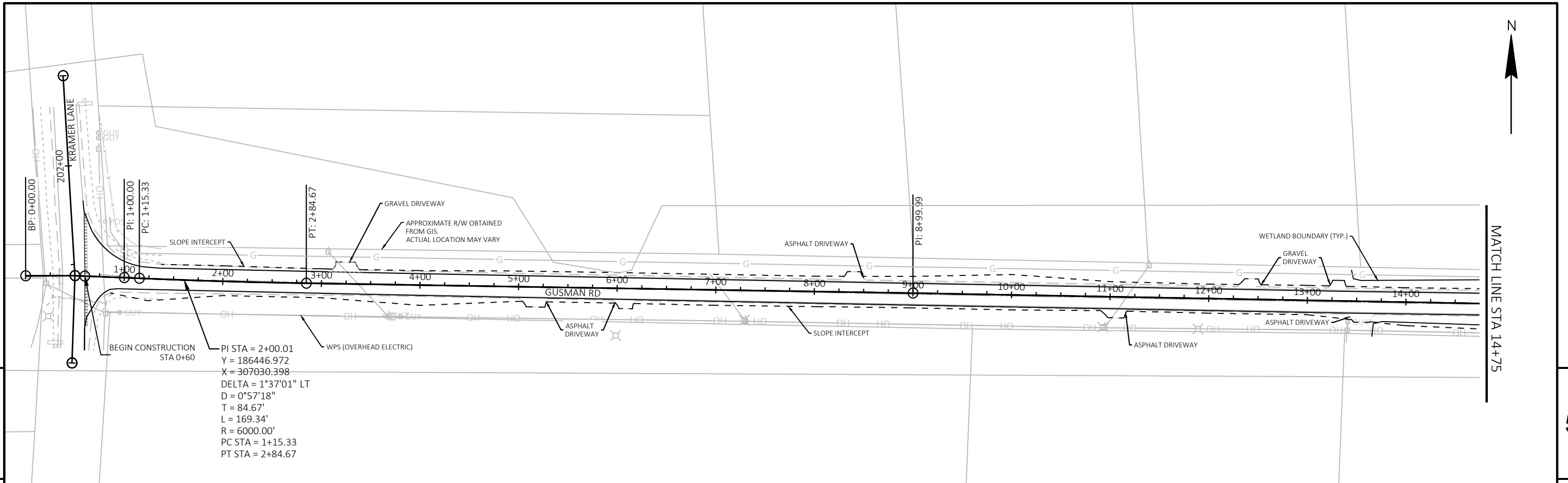
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PAVEMENT

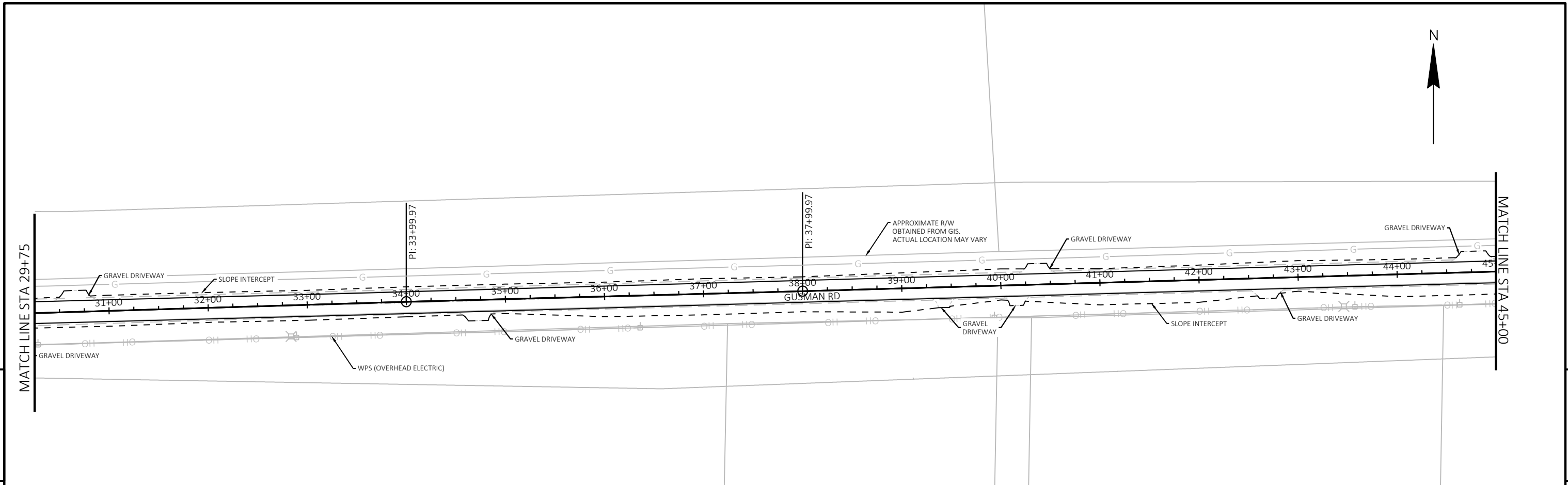
CATEGORY	STATION	TO	STATION	LOCATION	455.0605	460.5223	460.5225	465.0120	REMARKS
					TACK COAT	HMA PAVEMENT 3 LT 58-28 S	HMA PAVEMENT 5 LT 58-28 S	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	
0010	0+60	-	89+46	ML	1,659	3,066	1,703	-	GUSMAN RD
0010	4+58	-	4+77	RT	-	-	-	6.0	PRIVATE DRIVEWAY
0010	5+52	-	5+66	RT	-	-	-	5.0	PRIVATE DRIVEWAY
0010	7+84	-	7+97	LT	-	-	-	5.0	PRIVATE DRIVEWAY
0010	10+48	-	10+65	RT	-	-	-	6.0	PRIVATE DRIVEWAY
0010	12+97	-	13+13	RT	-	-	-	7.0	PRIVATE DRIVEWAY
0010	72+47	-	72+87	LT	-	-	-	12.0	CLEARVIEW DRIVE
0010	80+64	-	80+85	LT	-	-	-	7.0	PRIVATE DRIVEWAY
TOTAL 0010					1,659	3,066	1,703	48.0	

ROADWAY WORK

CATEGORY	STATION	TO	STATION	LOCATION	208.0100	213.0100.01	305.0110	325.0100	624.0100	646.2020	646.6120	REMARKS
					BORROW	FINISHING ROADWAY (PROJECT) (01. 6999-00-83)	BASE AGGREGATE DENSE 3/4-INCH	PULVERIZE AND RELAY	WATER MGAL	MARKING LINE EPOXY 6-INCH	MARKING STOP LINE EPOXY 18- INCH	
0010	0+00	-	89+28	UNDISTRIBUTED	-	1	-	-	-	-	-	GUSMAN RD
0010	0+60	-	89+46	ML	-	-	836	-	13	-	-	GUSMAN RD
0010	0+95	-	0+95	LT	-	-	-	-	-	-	17	STOP LINE, KRAMER LN
0010	1+10	-	88+96	ML	-	-	-	27,334	182	-	-	GUSMAN RD
0010	1+35	-	89+25	LT	-	-	-	-	-	8,790	-	NORTH FOG LINE
0010	1+35	-	89+25	ML	-	-	-	-	-	17,580	-	DOUBLE YELLOW CL
0010	1+35	-	89+25	RT	-	-	-	-	-	8,790	-	SOUTH FOG LINE
0010	15+53	-	18+50	RT	57	-	-	-	-	-	-	GUSMAN RD
0010	16+75	-	18+22	LT	156	-	-	-	-	-	-	GUSMAN RD
0010	26+75	-	27+50	LT	12	-	-	-	-	-	-	GUSMAN RD
0010	26+89	-	27+97	RT	5	-	-	-	-	-	-	GUSMAN RD
0010	50+51	-	53+84	LT	0	-	-	-	-	-	-	GUSMAN RD
0010	56+00	-	57+95	LT	47	-	-	-	-	-	-	GUSMAN RD
0010	56+00	-	57+94	RT	27	-	-	-	-	-	-	GUSMAN RD
0010	88+32	-	88+35	RT	-	-	-	-	-	-	20	STOP LINE, CTH J
TOTAL 0010					304	1	836	27,334	195	35,160	37	

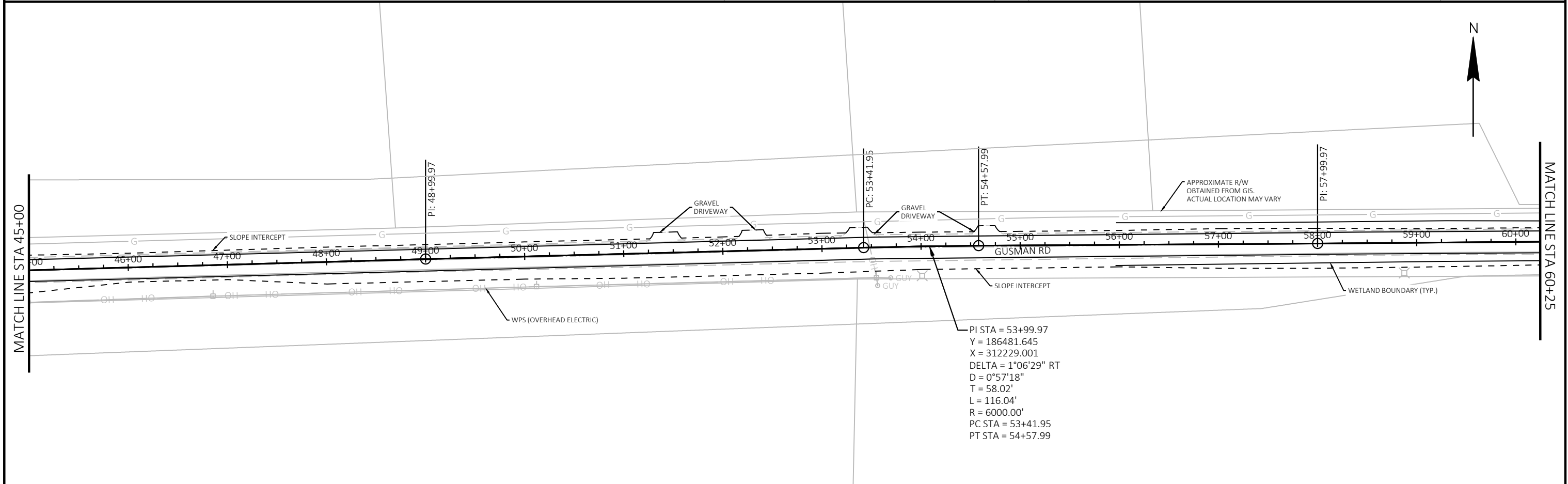


PROJECT NO: 6999-00-83	HWY: GUSMAN RD	COUNTY: MARATHON	PLAN SHEETS	SHEET	<b>E</b>
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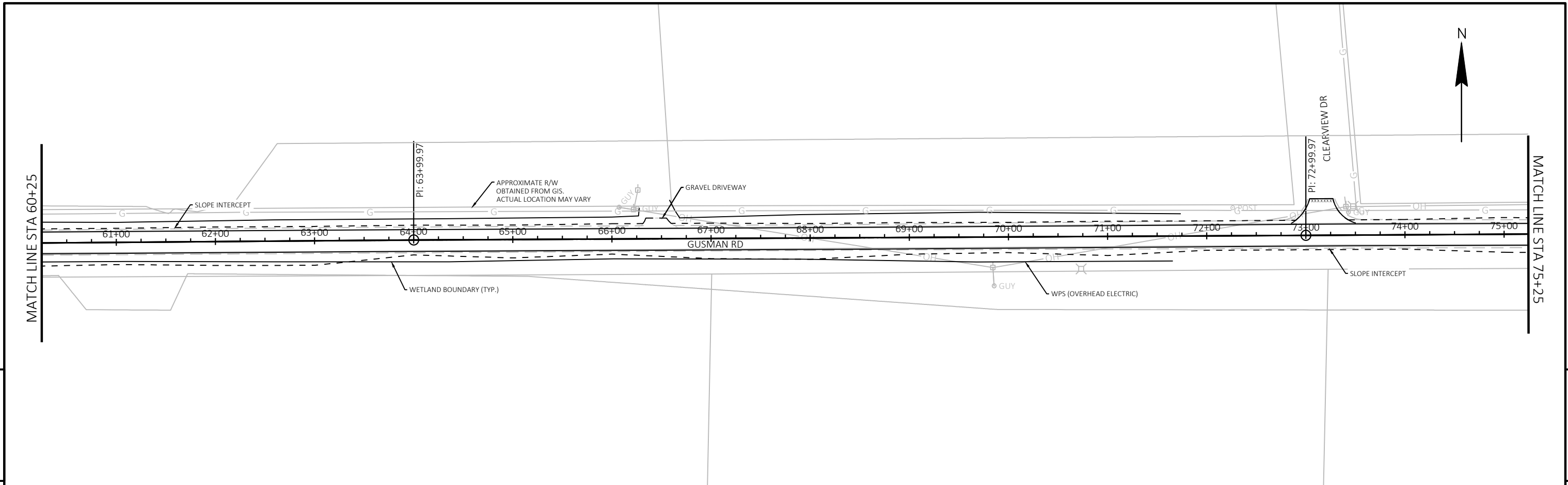


5

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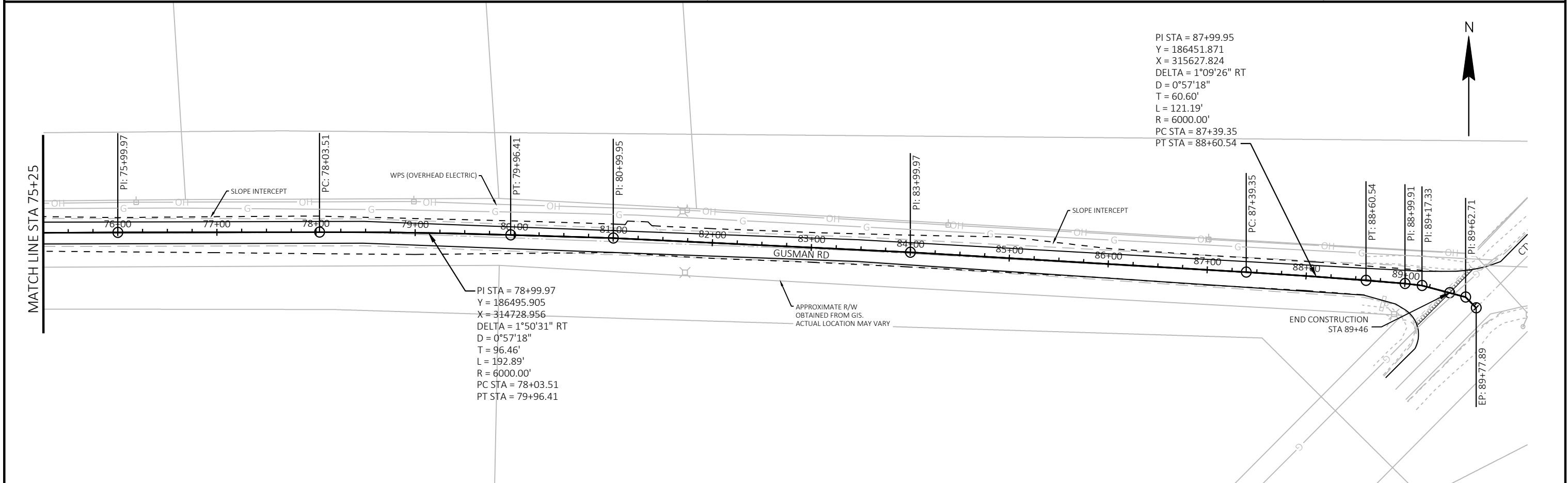


PROJECT NO: 6999-00-83	HWY: GUSMAN RD	COUNTY: MARATHON	PLAN SHEETS	SHEET	E
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5

5

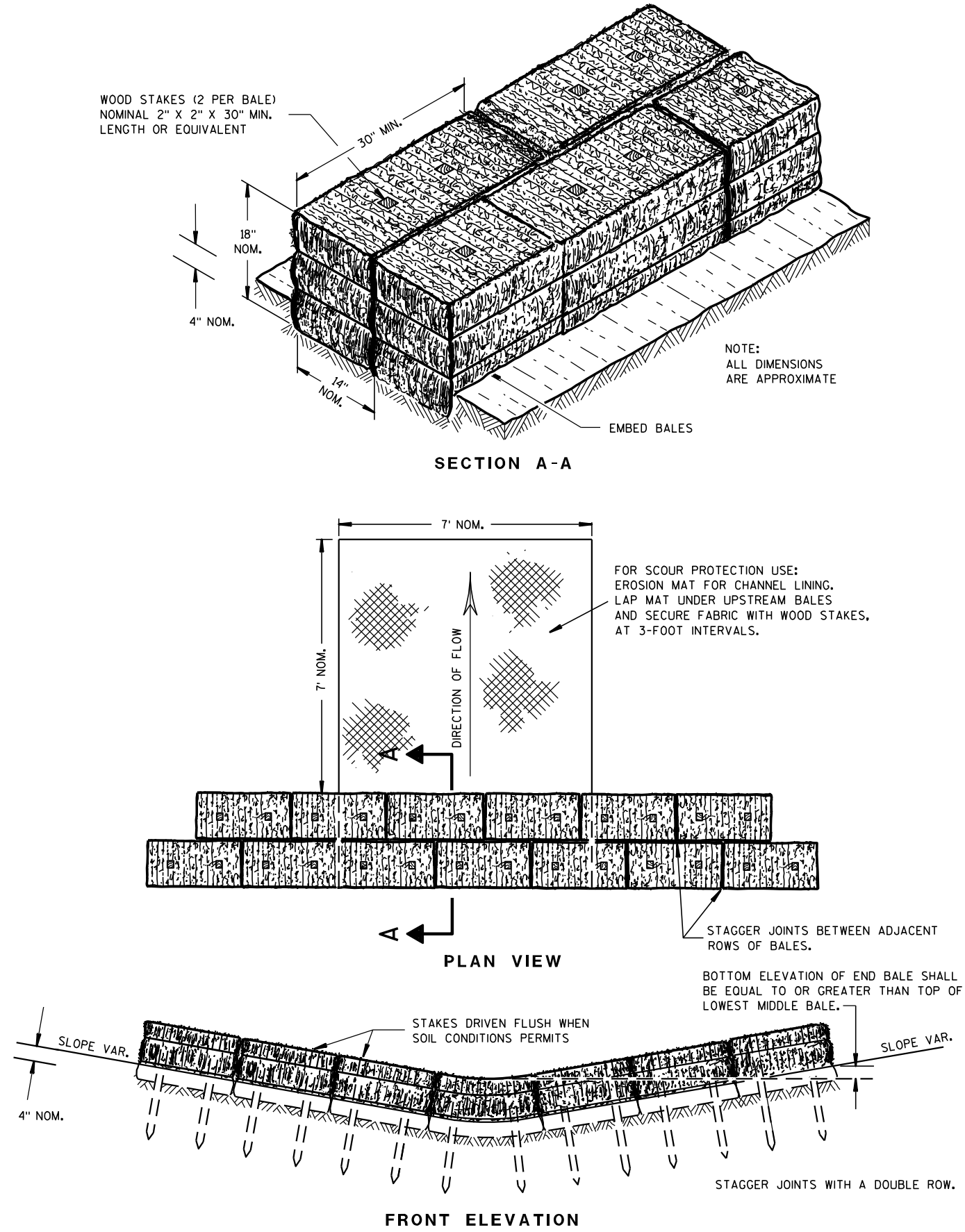


PROJECT NO: 6999-00-83	HWY: GUSMAN RD	COUNTY: MARATHON	PLAN SHEETS	SHEET	E
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## Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-08A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING



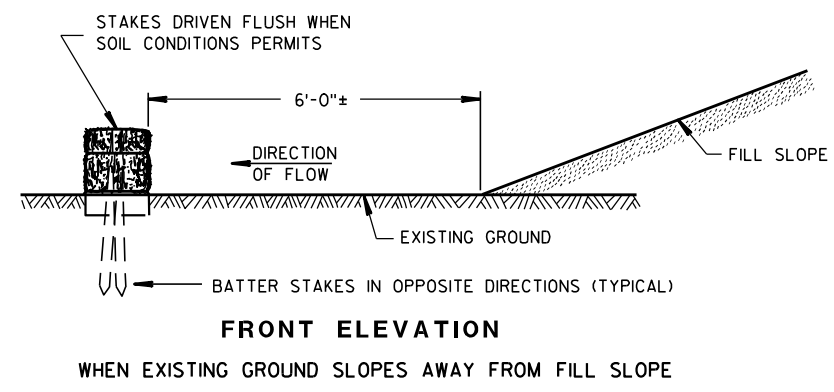
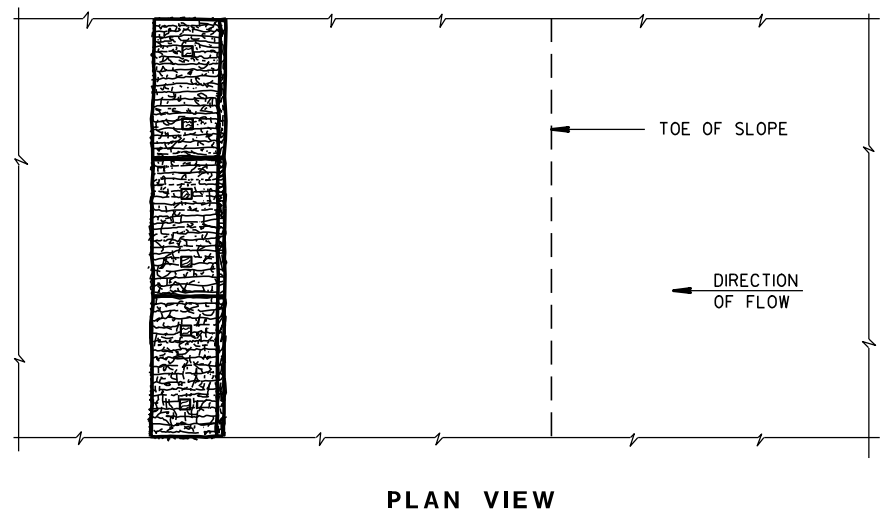
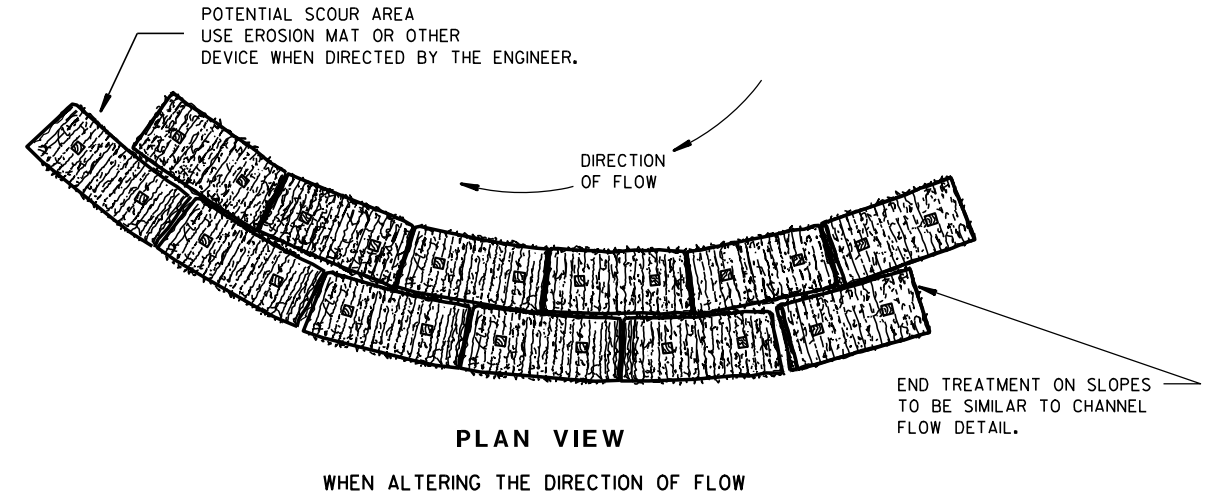


TEMPORARY DITCH CHECK USING EROSION BALES ①

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.

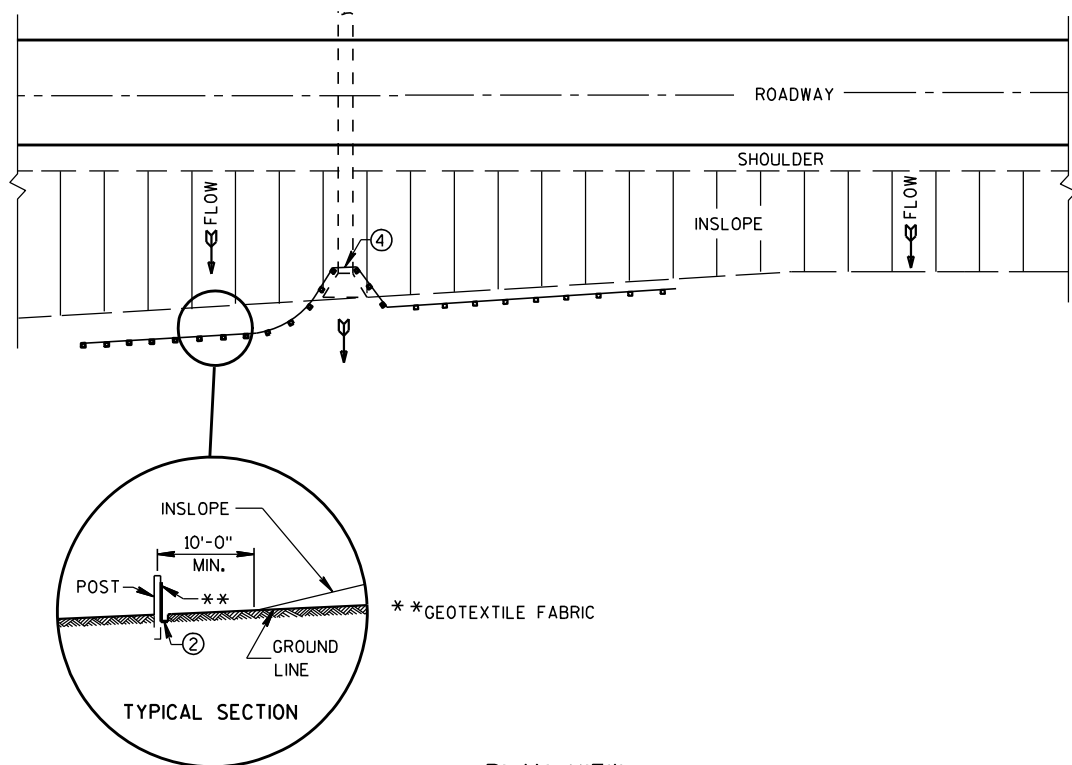


EROSION BALES FOR SHEET FLOW

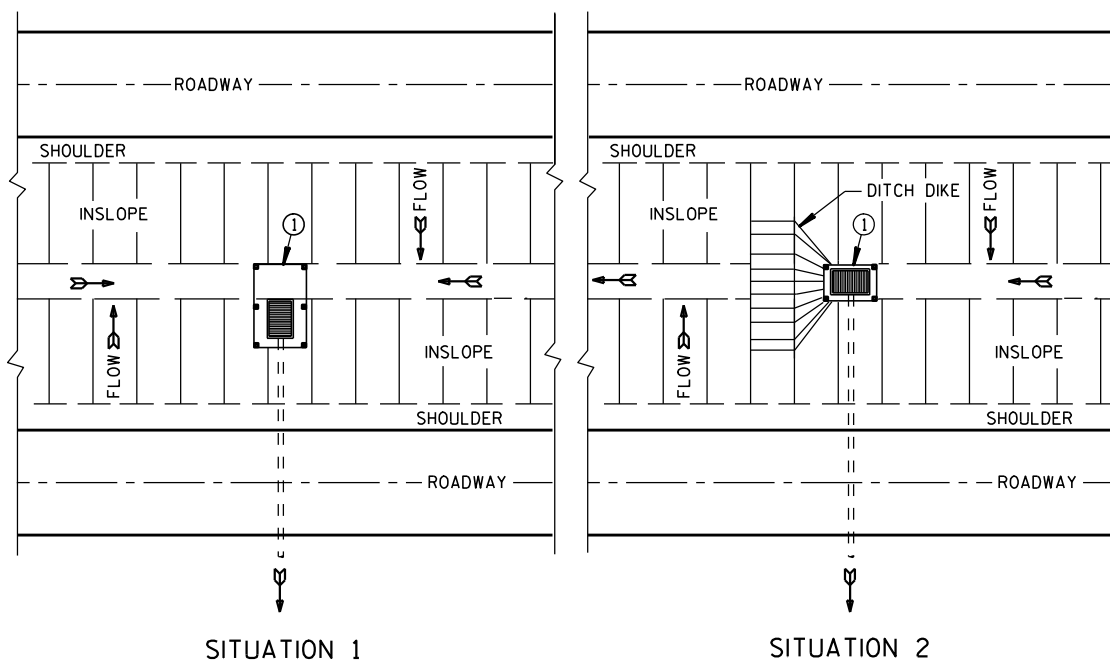
TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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



PLAN VIEW  
TYPICAL APPLICATION OF SILT FENCE

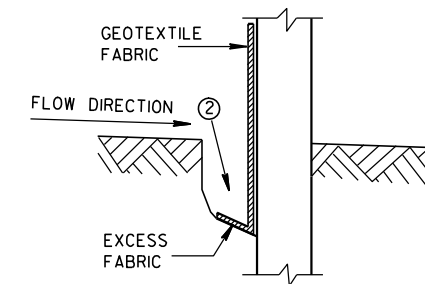


SITUATION 1 SITUATION 2  
PLAN VIEW  
SILT FENCE AT MEDIAN SURFACE DRAINS

**GENERAL NOTES**

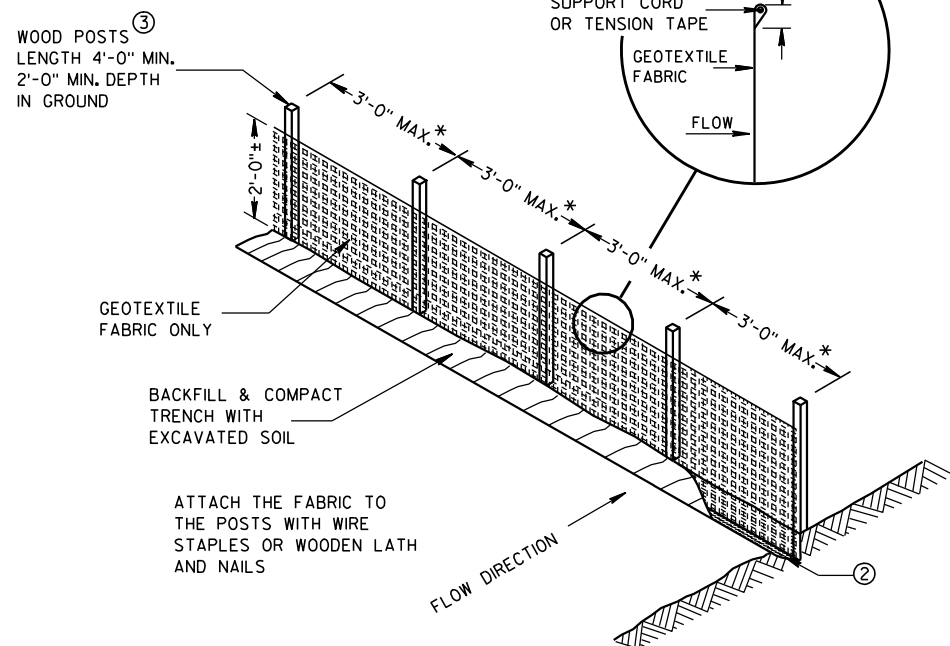
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



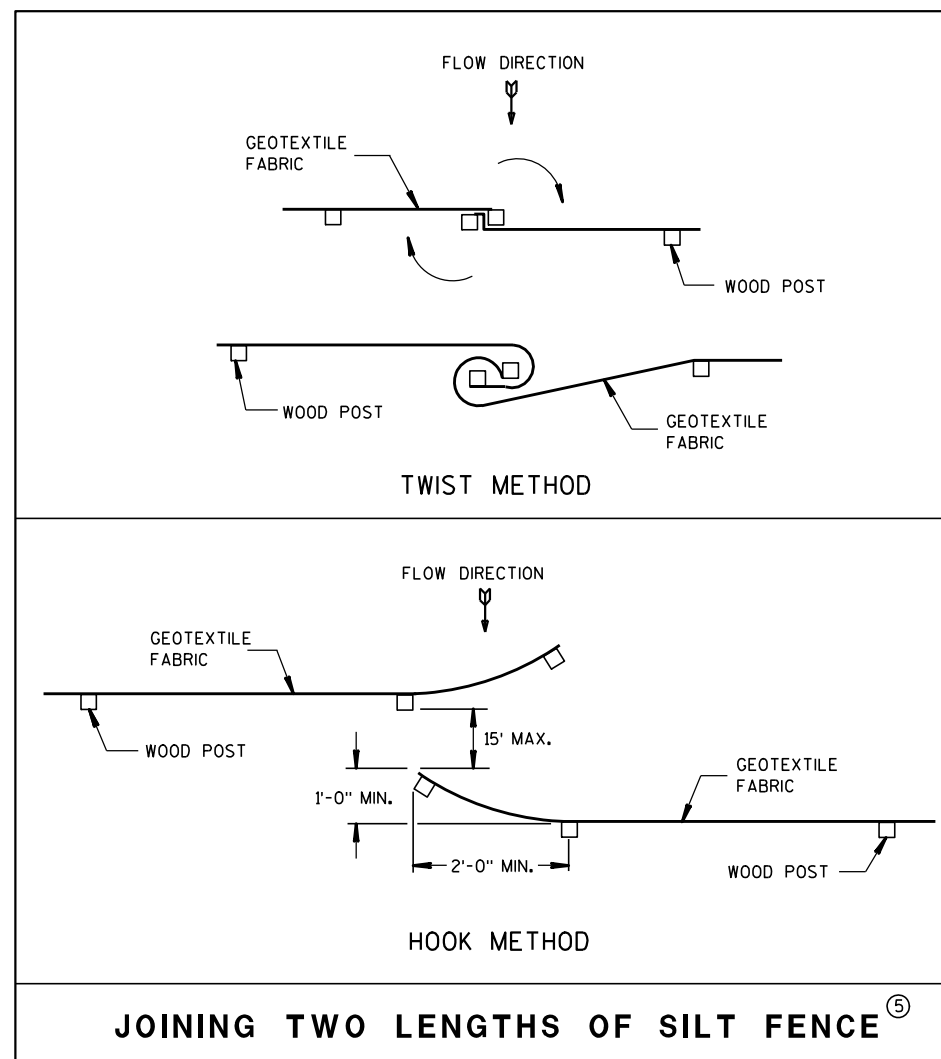
TRENCH DETAIL

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

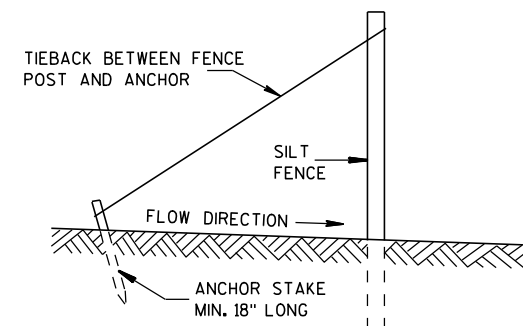


SILT FENCE

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



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK  
(WHEN REQUIRED BY THE ENGINEER)

**SILT FENCE**

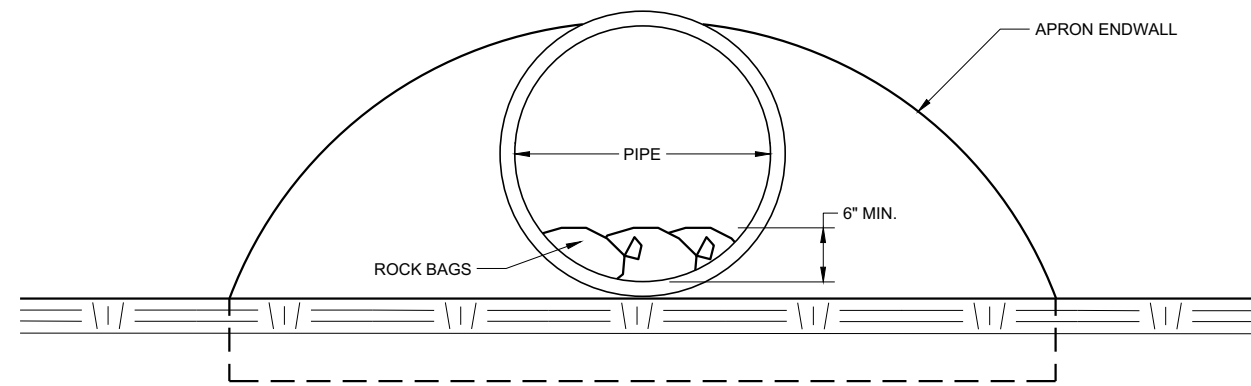
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

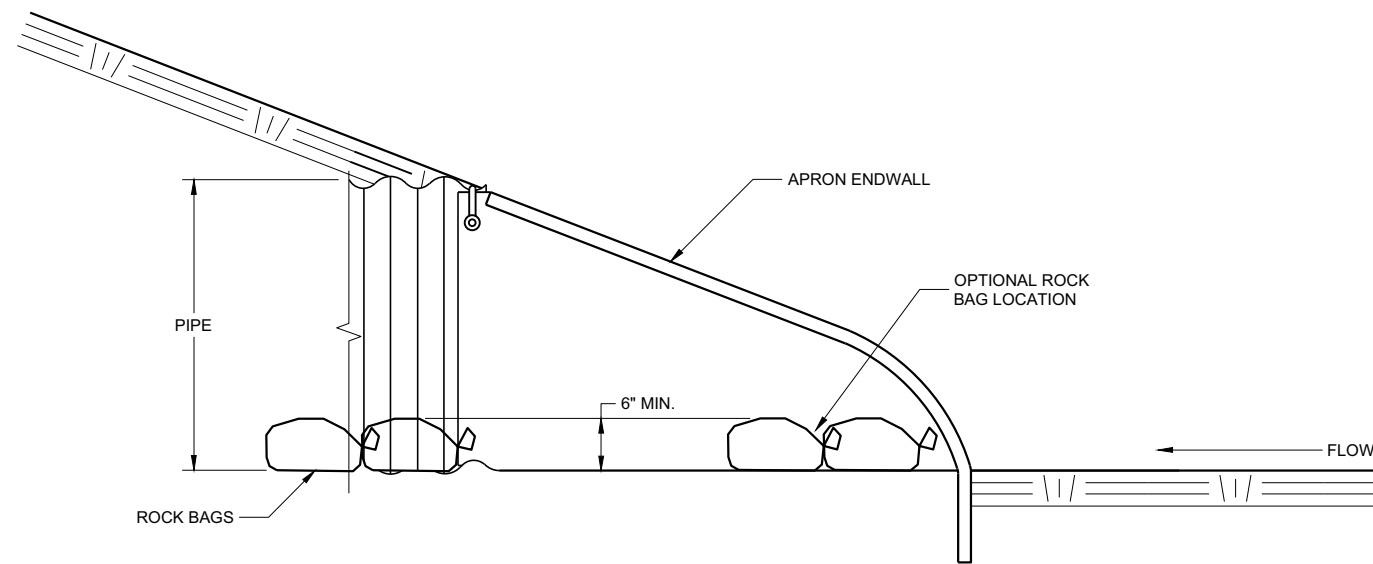
4-29-05  
DATE

FHWA

/S/ Beth Cannestra  
CHIEF ROADWAY DEVELOPMENT ENGINEER



**END VIEW**



**SIDE VIEW**

**CULVERT PIPE CHECK**  
(INSTALL ON INLET END ONLY)

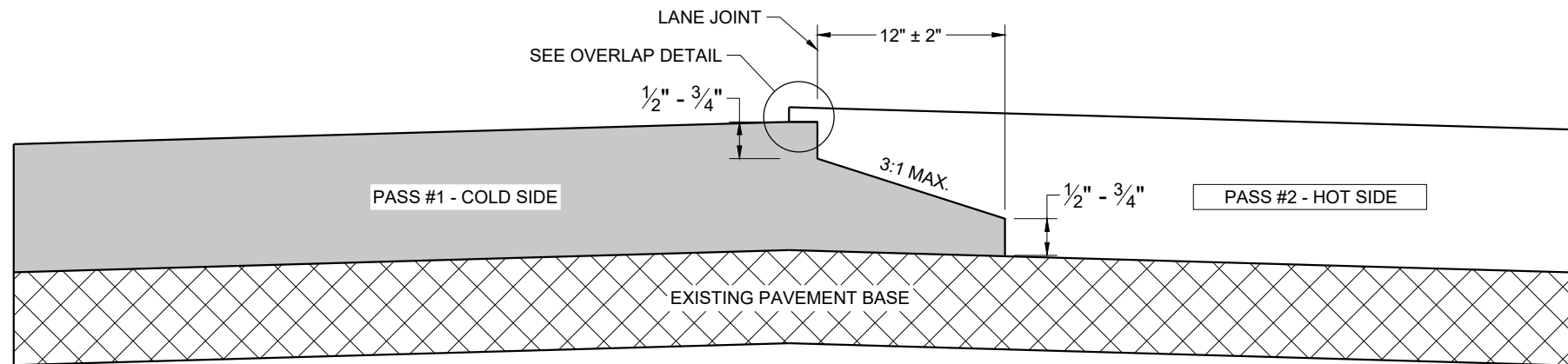
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6

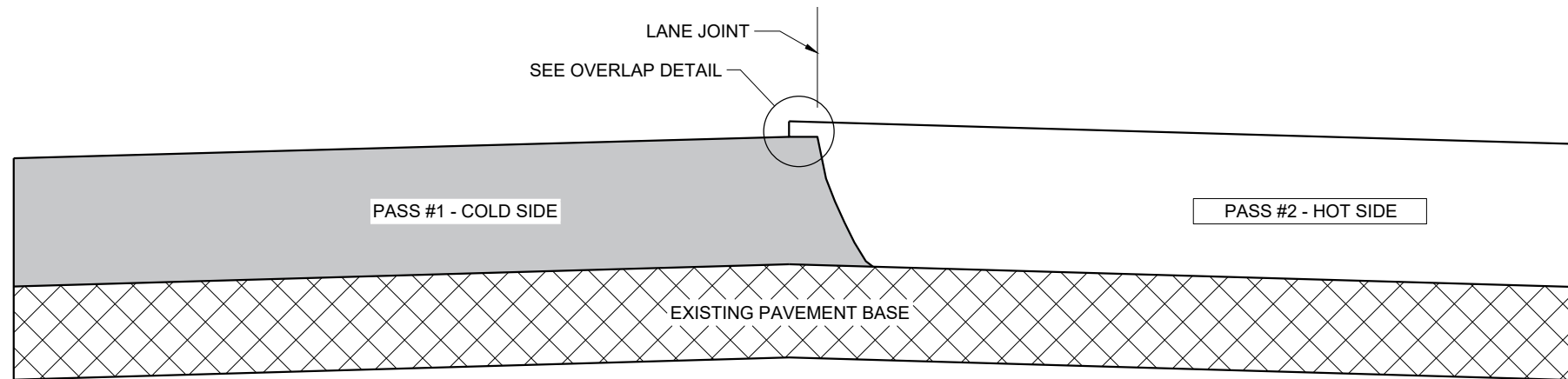
SDD 08E15 - 01

SDD 08E15 - 01

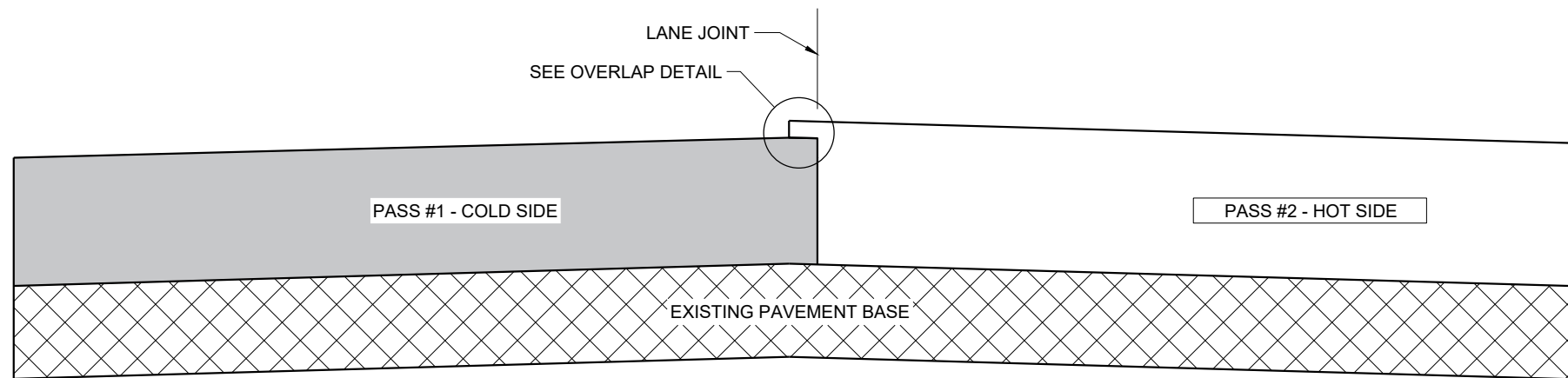
<b>CULVERT PIPE CHECK</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGINEER
<small>FHWA</small>	



**TYPICAL PAVEMENT CROSS SECTION  
NOTCHED WEDGE JOINT**



**TYPICAL PAVEMENT CROSS SECTION  
VERTICAL JOINT**



**TYPICAL PAVEMENT CROSS SECTION  
VERTICAL JOINT (MILLED)**

**GENERAL NOTES**

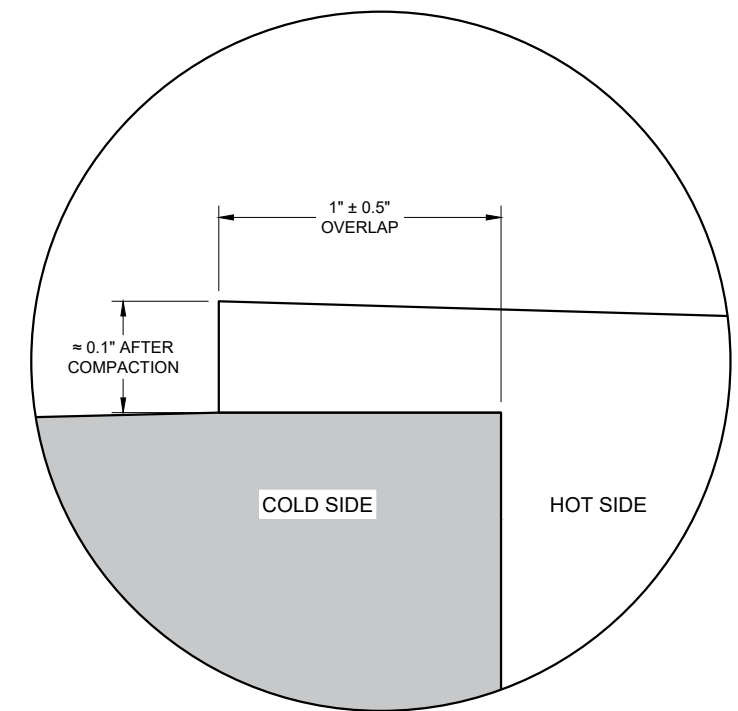
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

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

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

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



**OVERLAP DETAIL (TYPICAL)**

6

6

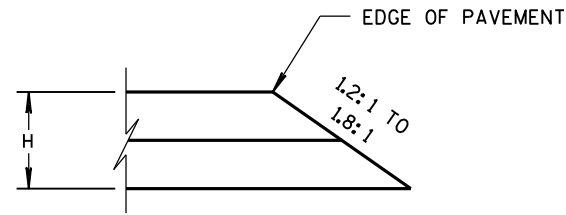
SDD 13C19 - 03

SDD 13C19 - 03

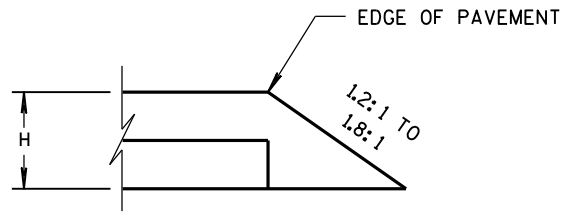
**HMA LONGITUDINAL JOINTS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

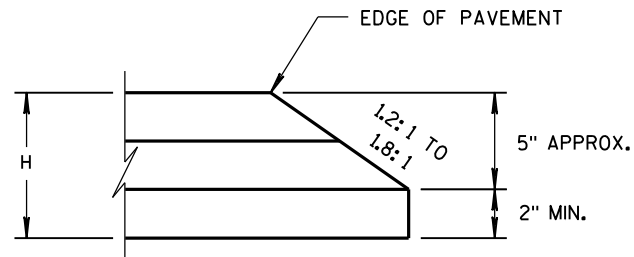
APPROVED  
November 2020 /S/ Steven Hefel  
DATE HMA PAVEMENT ENGINEER  
FHWA



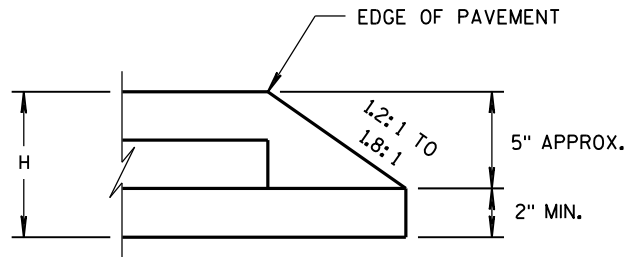
CONSTRUCTED WITH FINAL TWO LAYERS  
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER  
FOR H 5" OR LESS

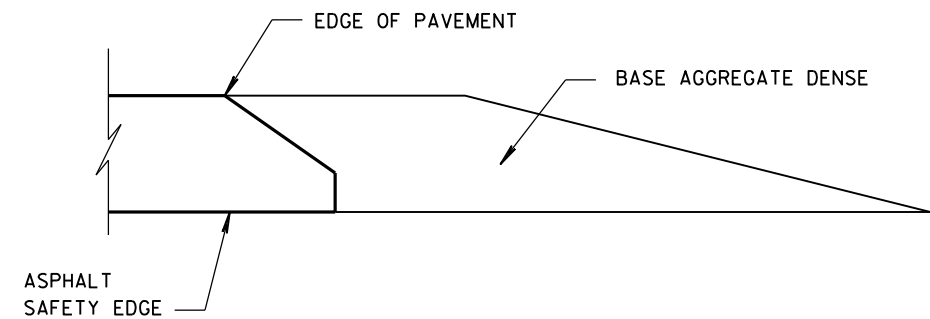


CONSTRUCTED WITH FINAL TWO LAYERS  
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER  
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

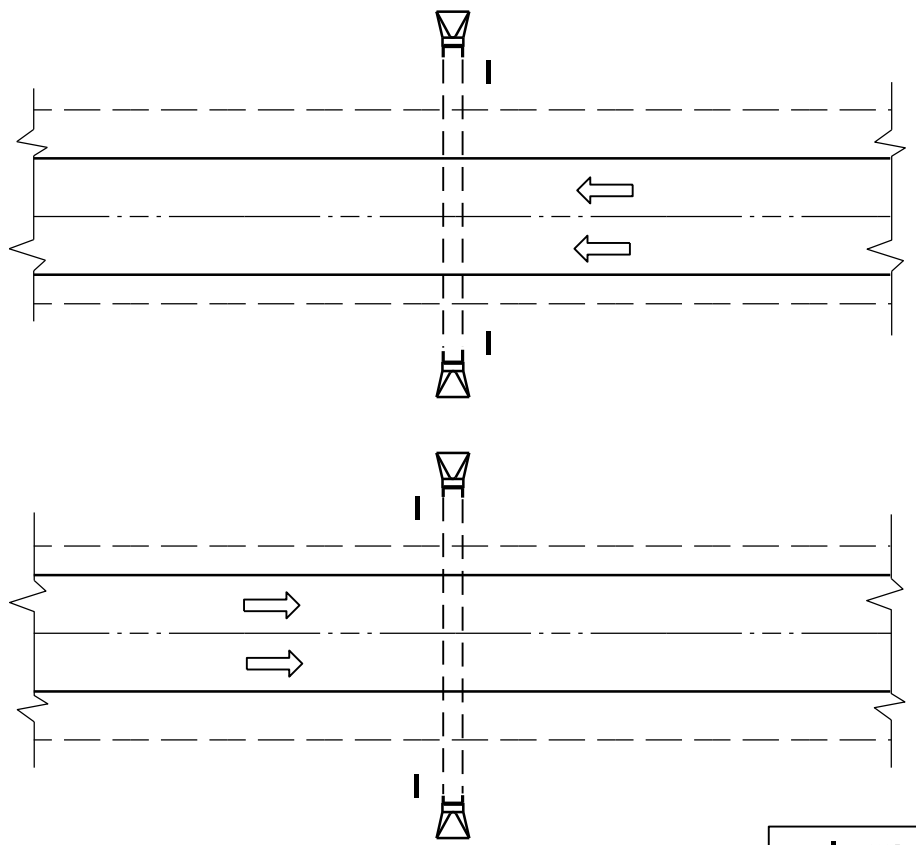
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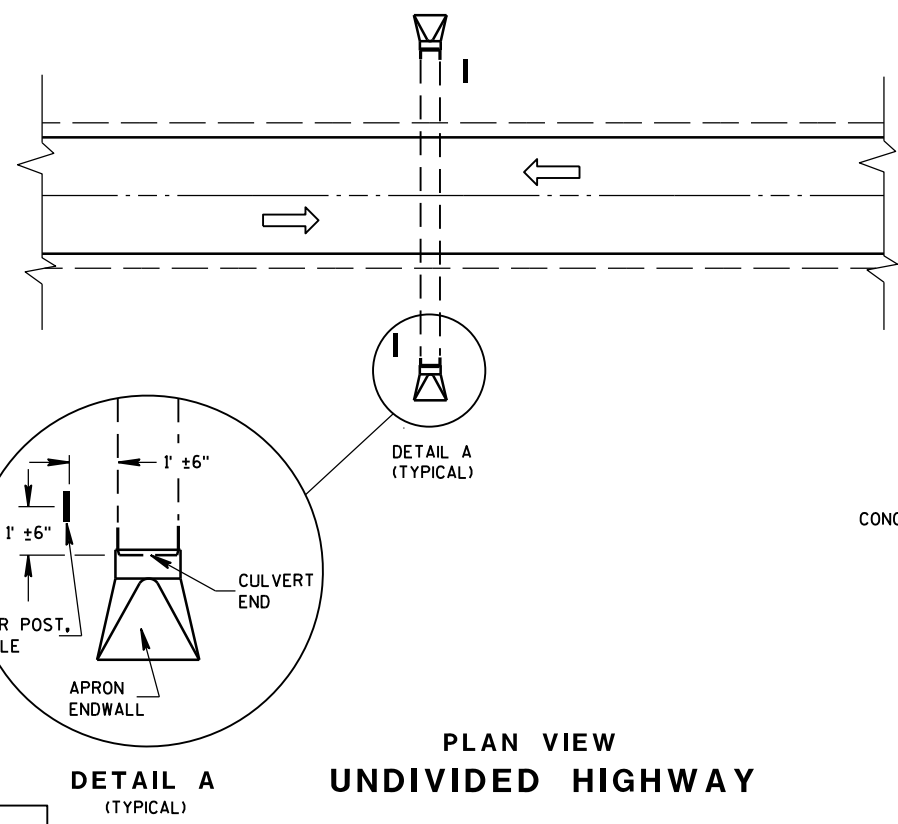
S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE <sub>SM</sub>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE	/s/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

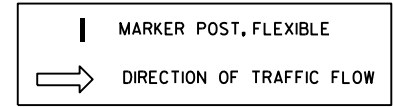


PLAN VIEW  
DIVIDED HIGHWAY



PLAN VIEW  
UNDIVIDED HIGHWAY

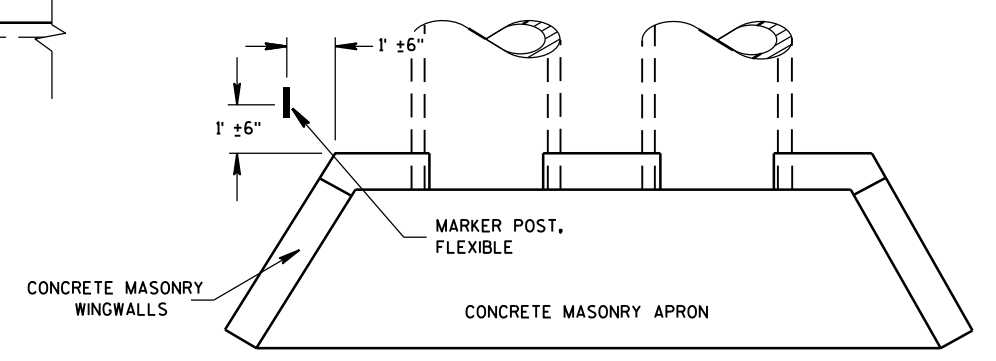
DETAIL A  
(TYPICAL)



FLEXIBLE MARKER POST LOCATION

GENERAL NOTES

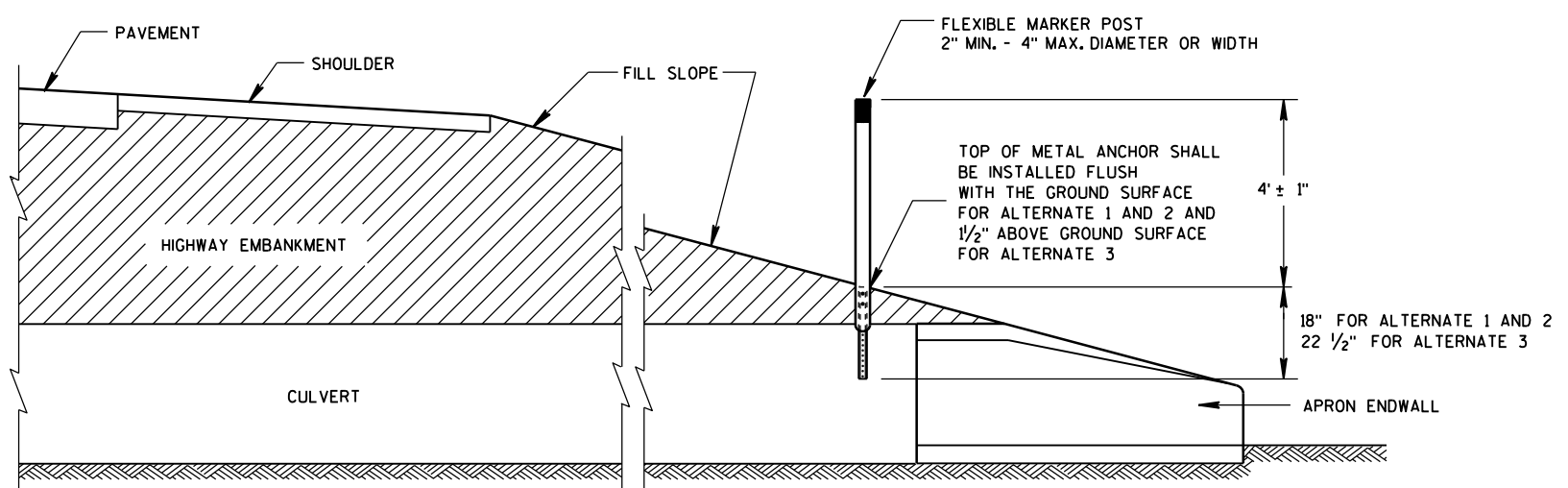
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW  
CONCRETE MASONRY ENDWALLS FOR  
CULVERT PIPE AND PIPE ARCH

6

6



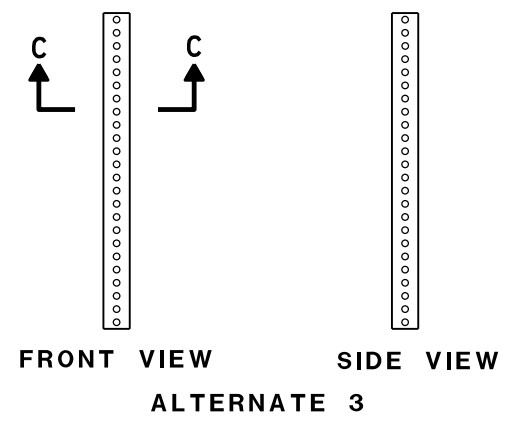
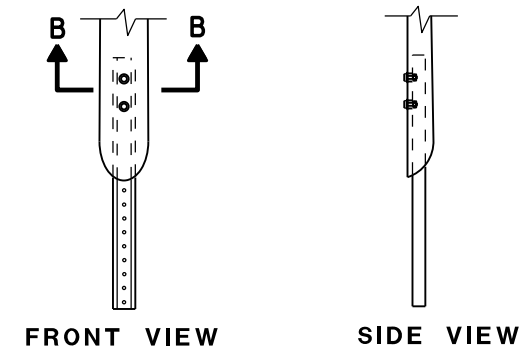
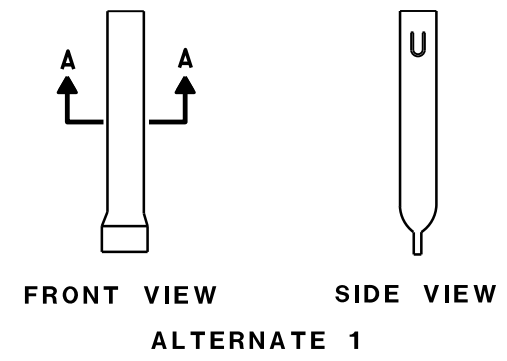
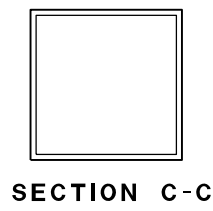
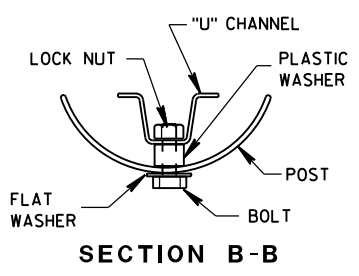
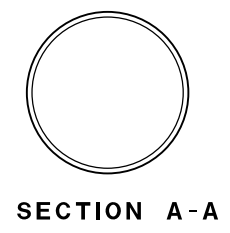
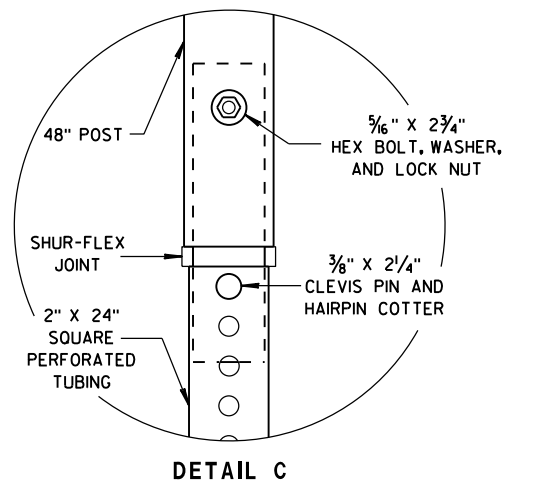
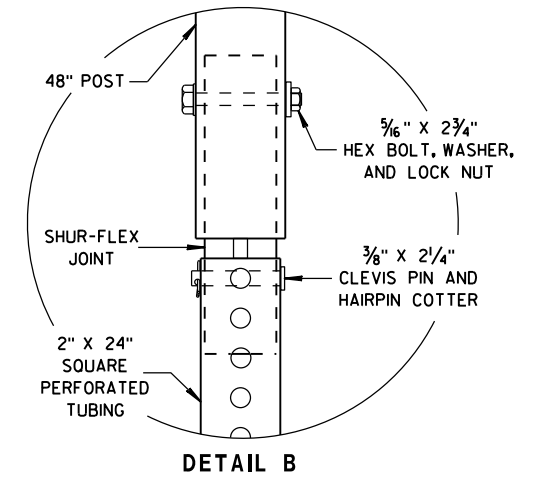
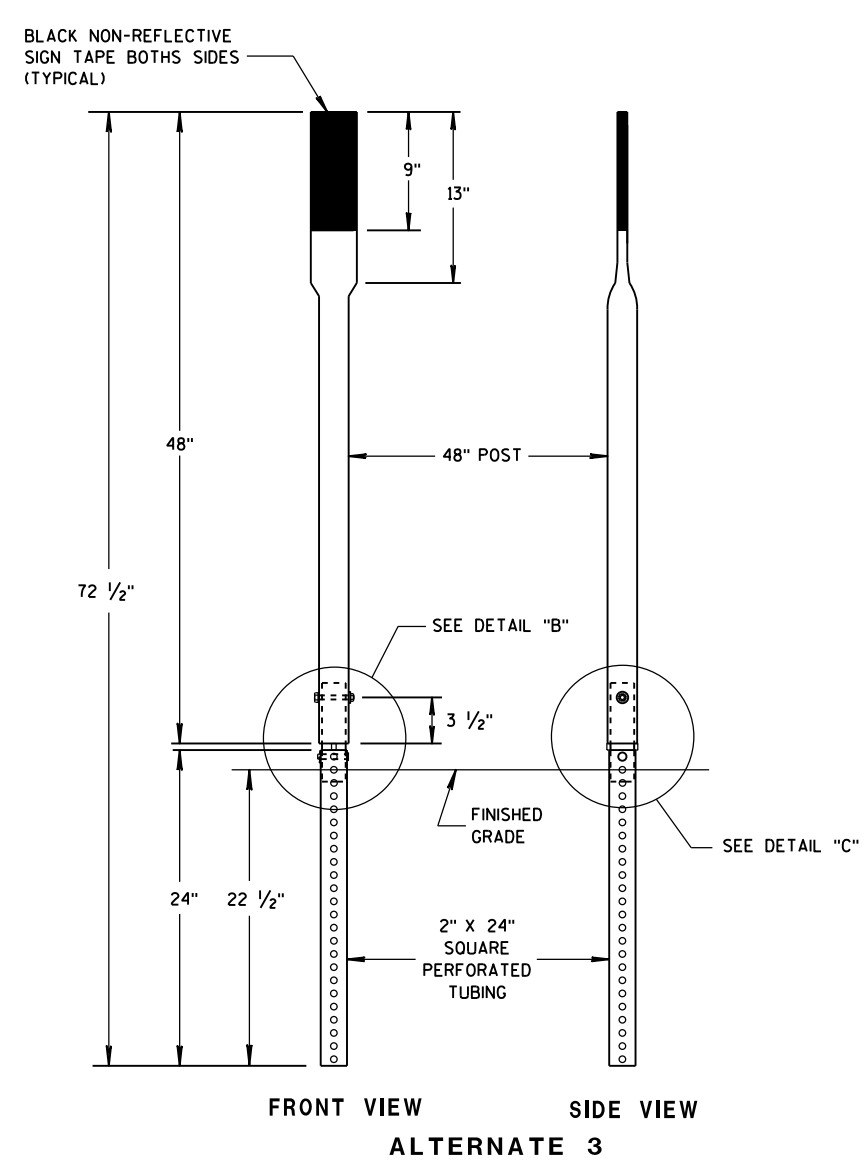
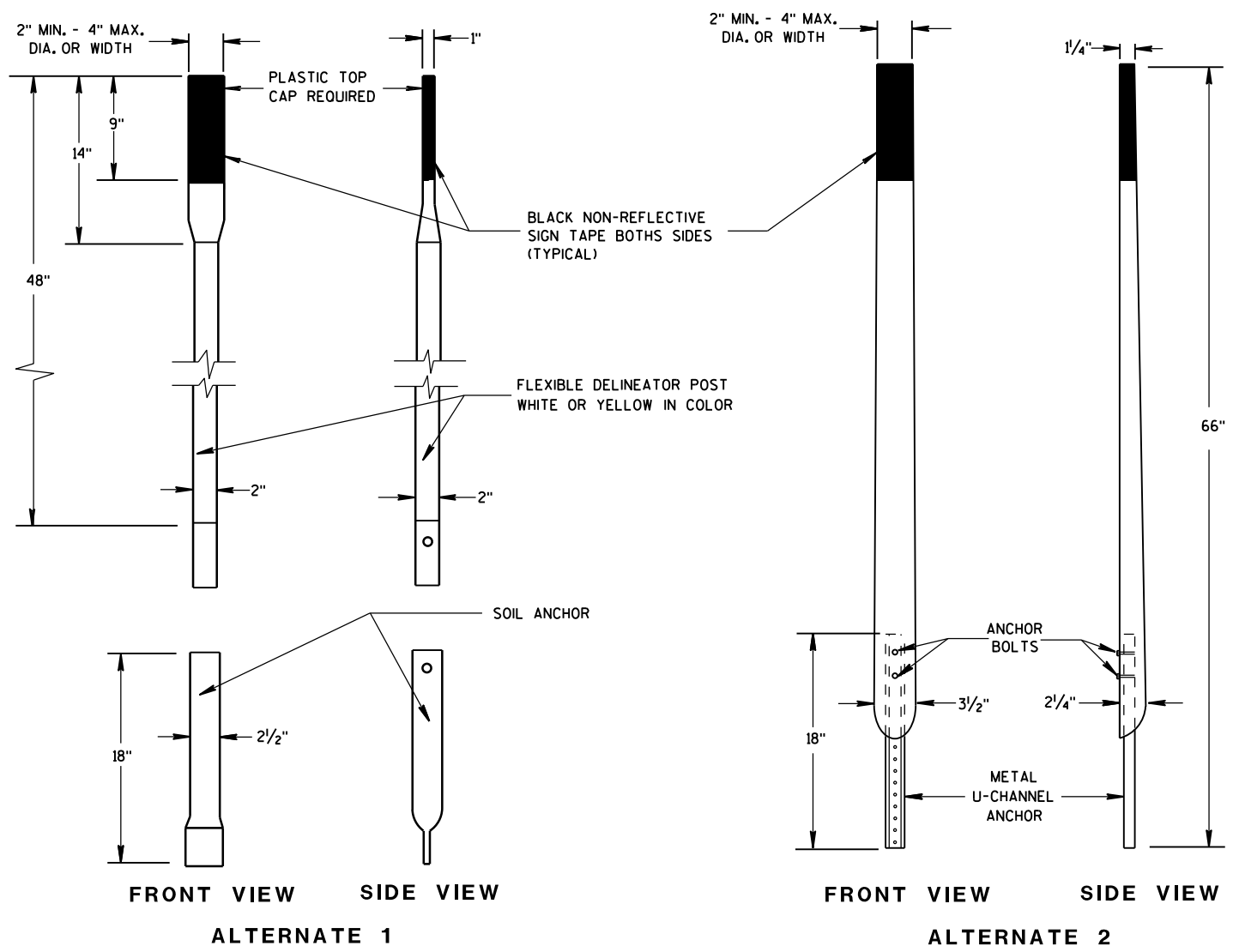
CROSS SECTION  
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST  
FOR CULVERT END

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

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



**FLEXIBLE MARKER POST ANCHORS**

<b>FLEXIBLE MARKER POST FOR CULVERT END</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/1/2012 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

**GENERAL NOTES**

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

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




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

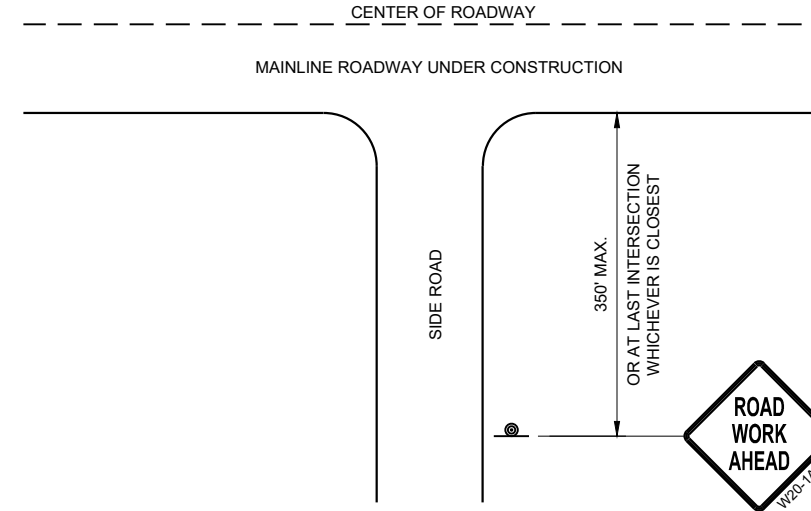
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

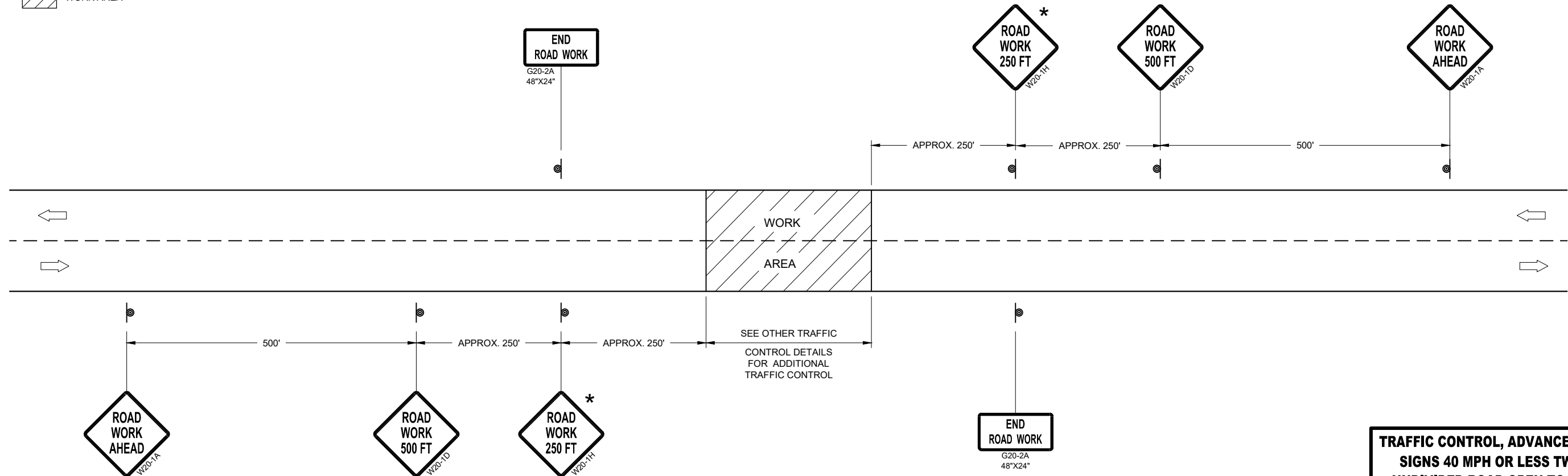
\* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

**LEGEND**

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



**TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL**



**TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS**

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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA






**GENERAL NOTES**

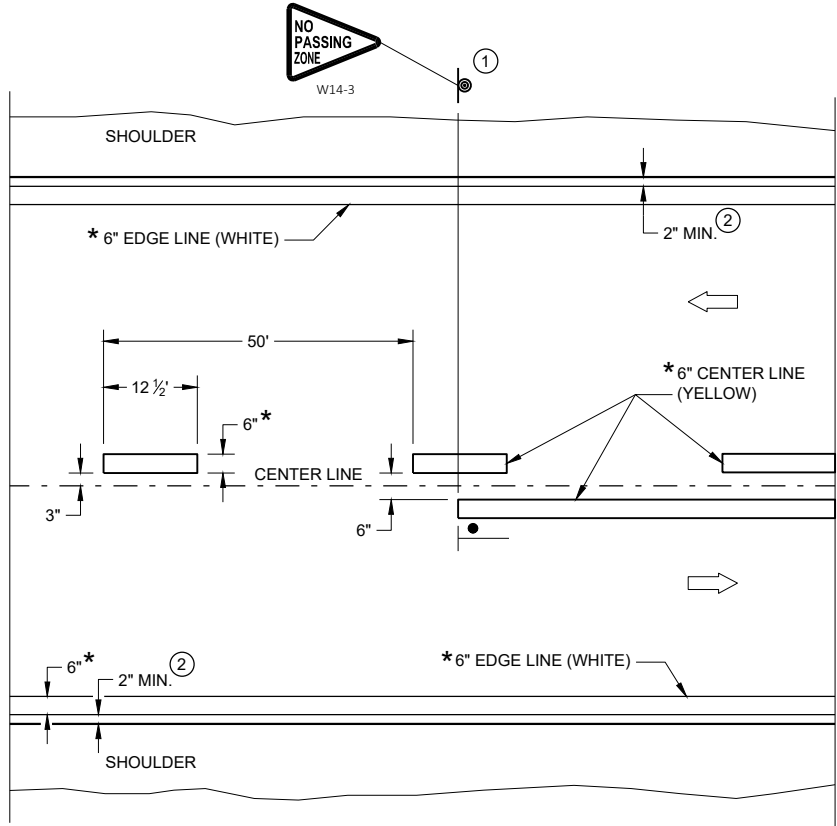
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- 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.

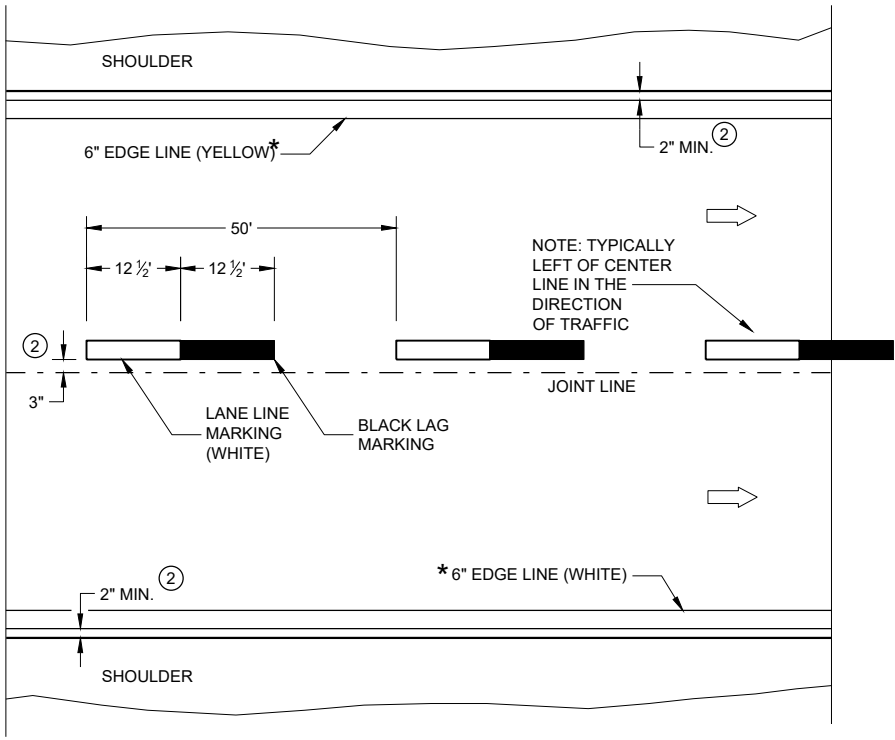
**LEGEND**

-  "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**

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SDD 15C08-23a

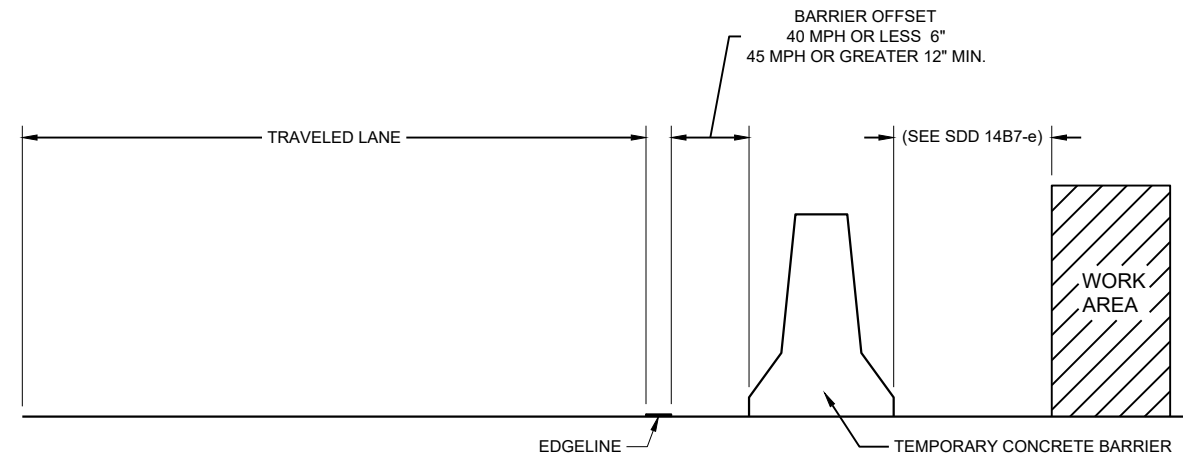
SDD 15C08-23a

**PERMANENT LONGITUDINAL PAVEMENT MARKINGS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 /S/ Jeannie Silver  
DATE STATEWIDE SIGNING AND MARKING ENGINEER

FHWA



**TEMPORARY BARRIER OFFSET FROM EDGELINE**

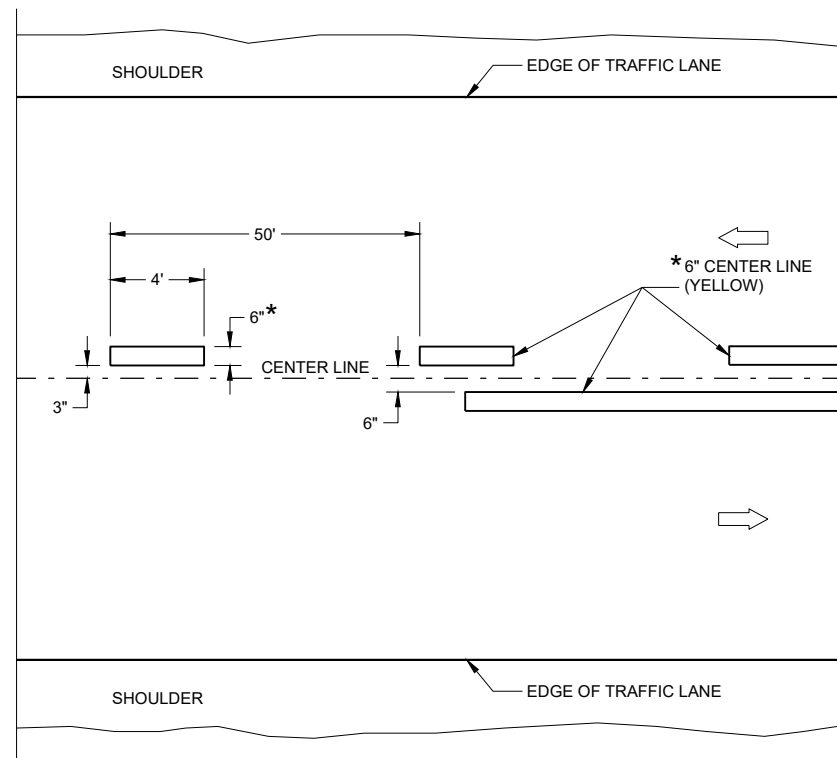
**GENERAL NOTES**

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

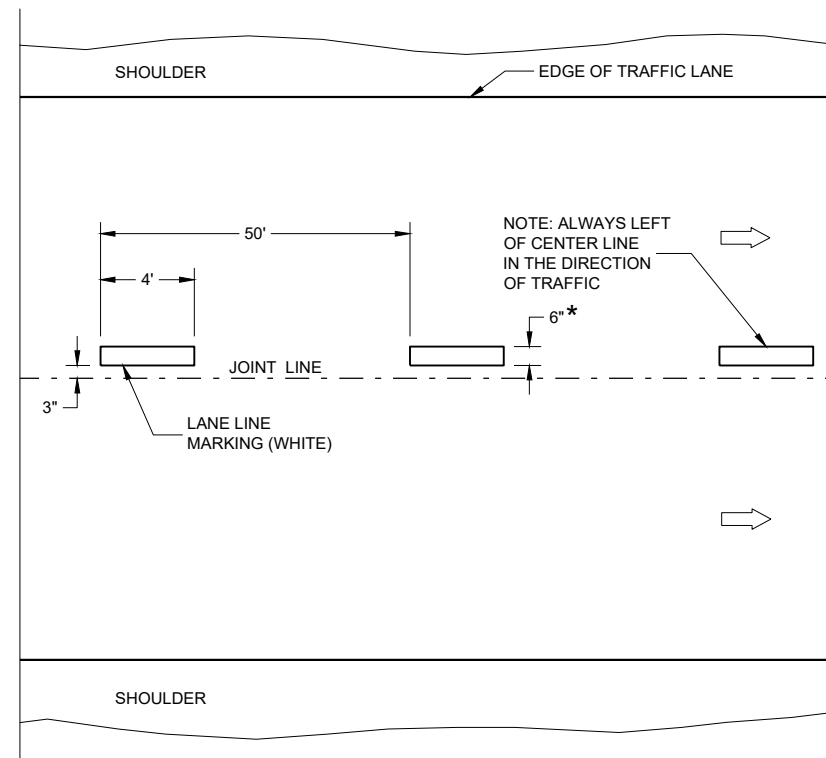
**LEGEND**

➡ DIRECTION OF TRAFFIC

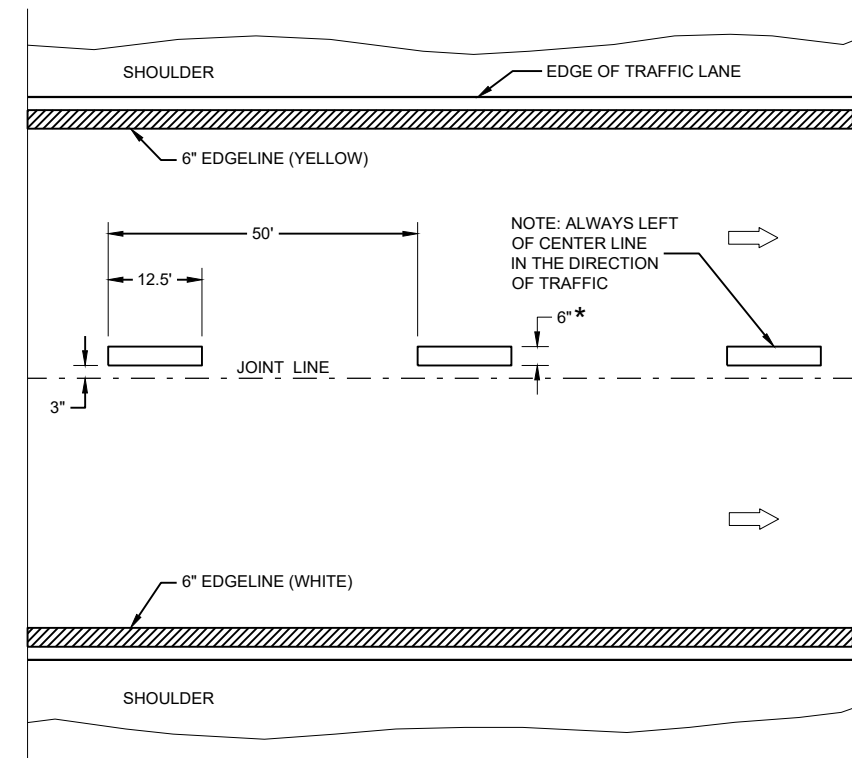
\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



**TWO WAY TRAFFIC**



**ONE WAY TRAFFIC**



**FREEWAYS AND EXPRESSWAYS**

**TEMPORARY PAVEMENT MARKING**






**TEMPORARY LONGITUDINAL PAVEMENT MARKING**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 /S/ Jeannie Silver  
DATE STATEWIDE SIGNING AND MARKING ENGINEER

FHWA

**LEGEND**

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

**GENERAL NOTES**

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

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

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

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

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

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

**FLAGGING**

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

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

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

**TEMPORARY PORTABLE RUMBLE STRIPS**

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

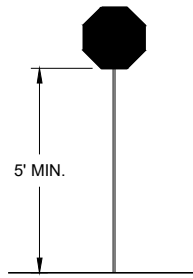
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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



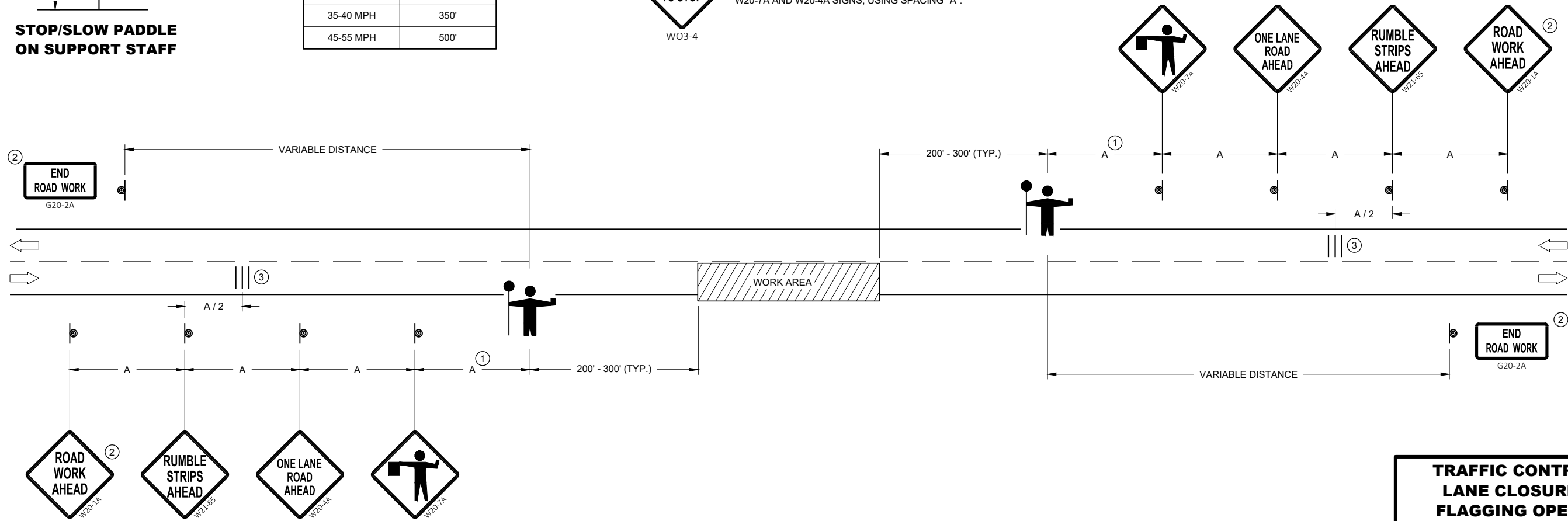
**STOP/SLOW PADDLE ON SUPPORT STAFF**

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

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



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



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SDD 15C12 - 09a

SDD 15C12 - 09a





**TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
DATE: May 2022 /S/ Andrew Heidtke  
WORK ZONE ENGINEER

FHWA

**LEGEND**

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING 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 OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

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

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

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

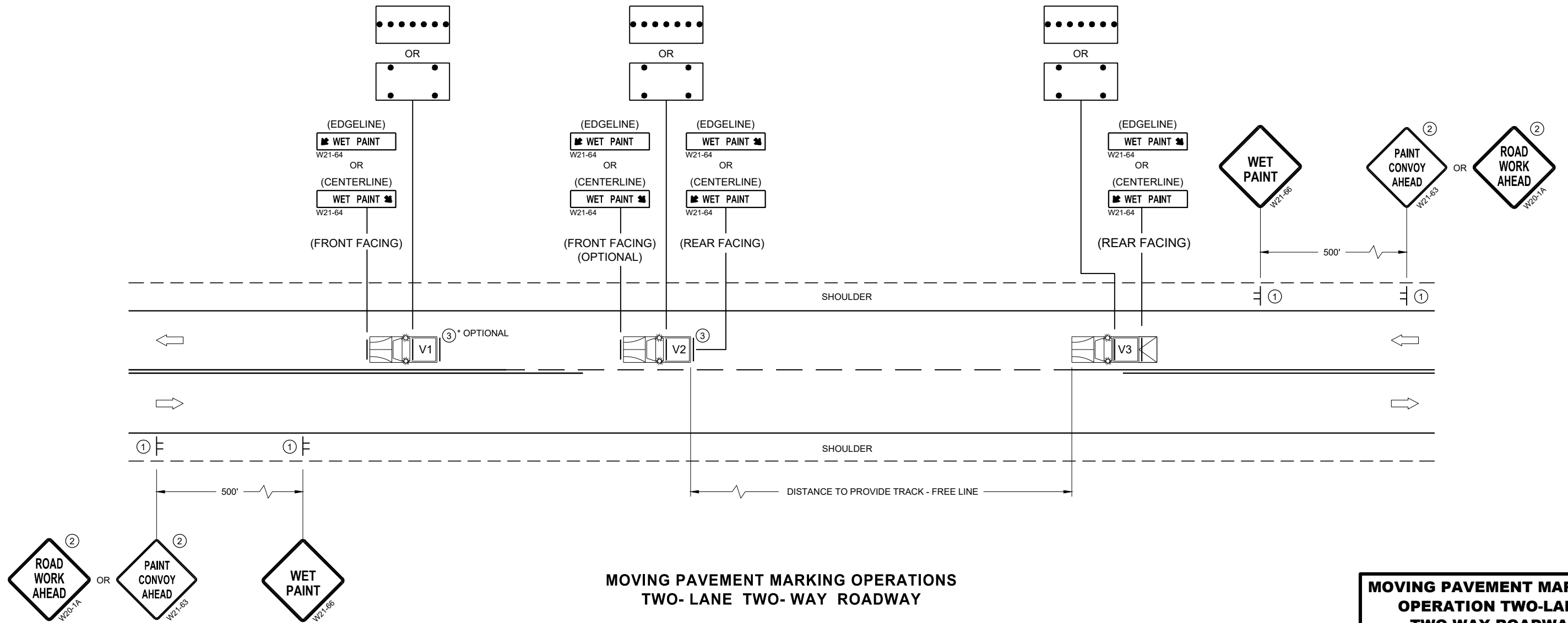
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

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

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.
- ③ V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.

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**MOVING PAVEMENT MARKING OPERATIONS  
TWO-LANE TWO-WAY ROADWAY**

SDD 15C19-08a

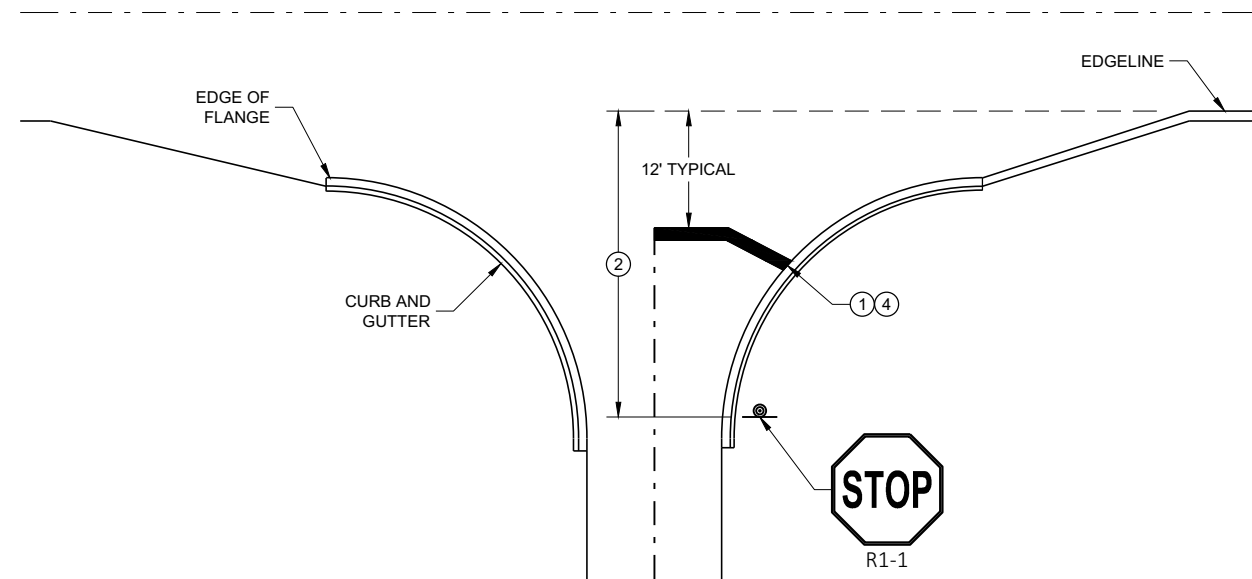
SDD 15C19-08a

<b>MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2023 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

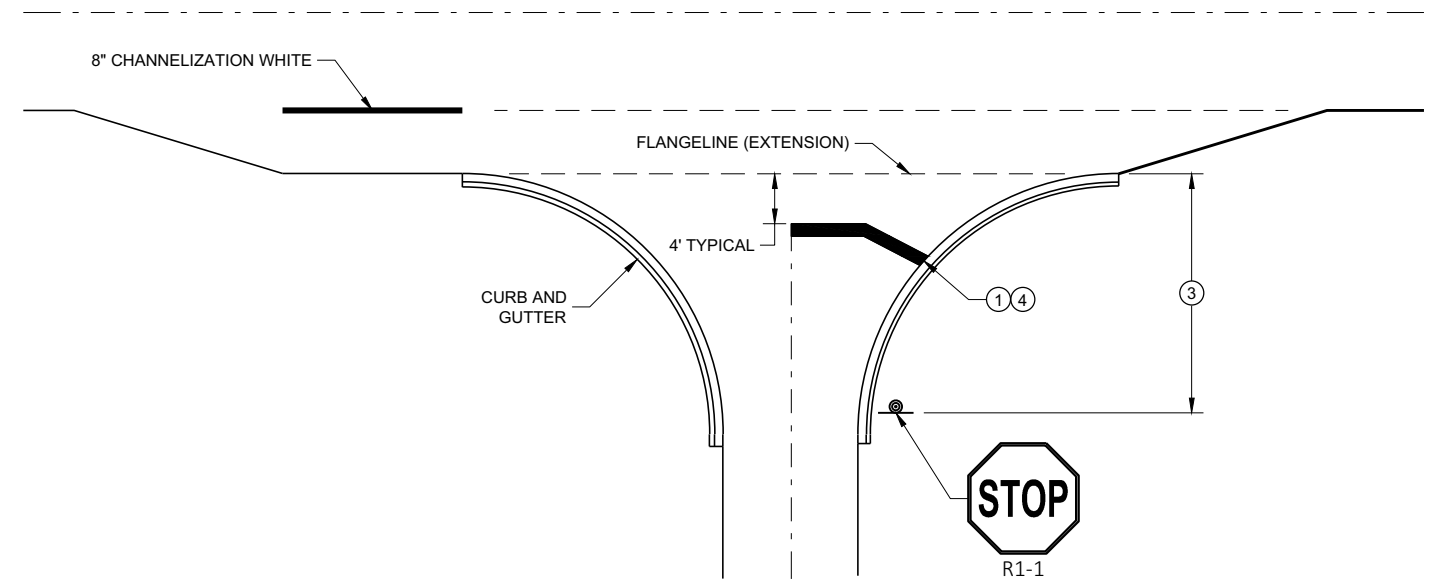
**GENERAL NOTES**

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

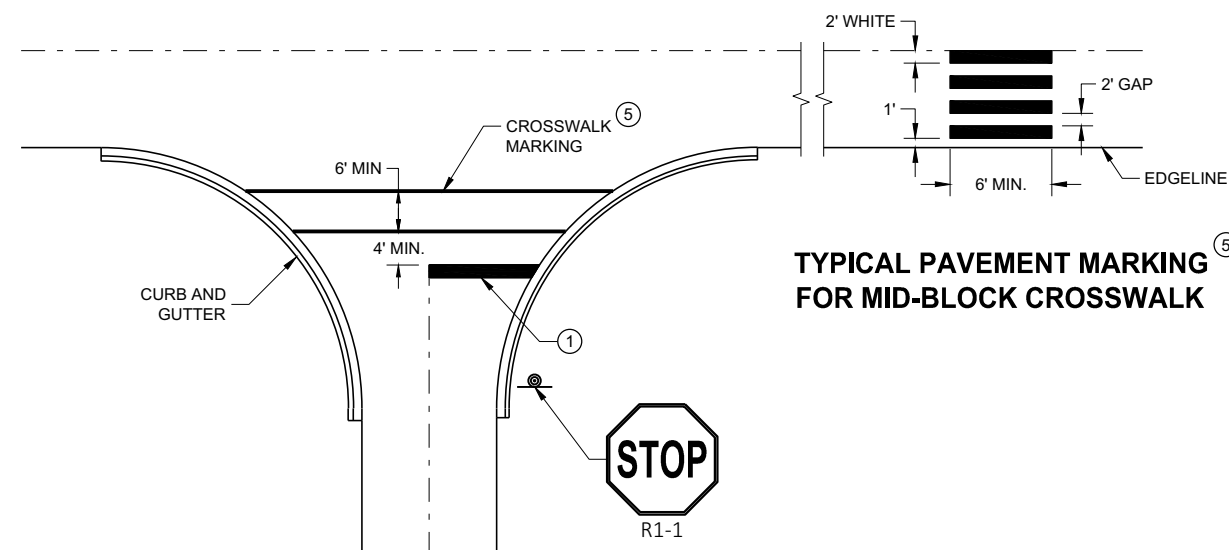
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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 INSTEAD.



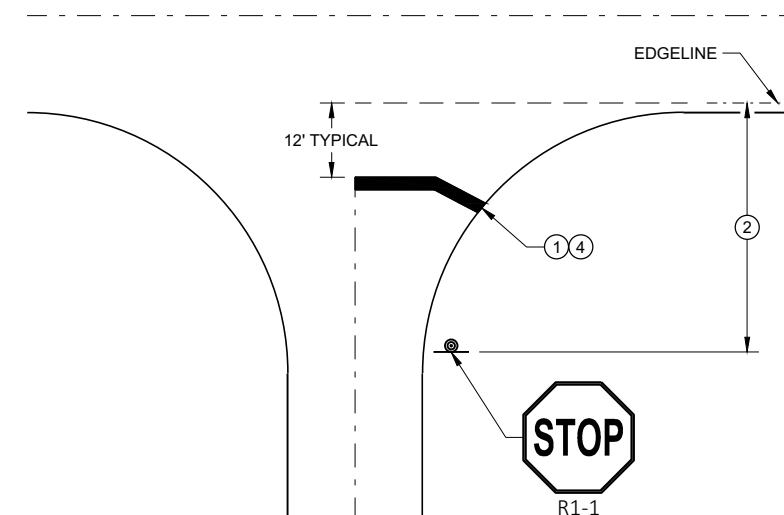
**TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER**



**TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE**



**TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING**

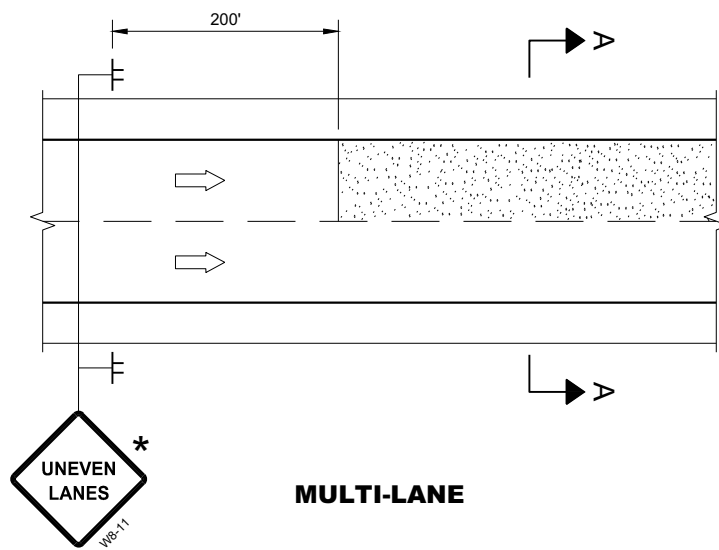


**TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER**

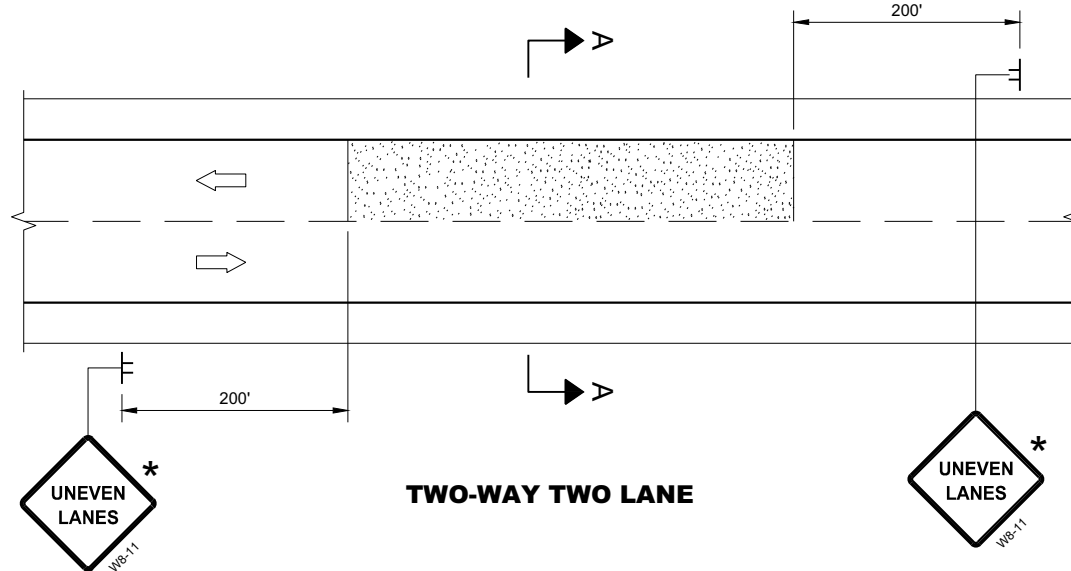
**STOP LINE AND CROSSWALK PAVEMENT MARKING**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

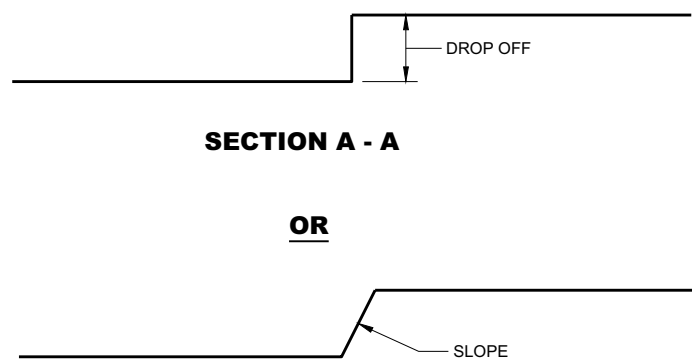
APPROVED  
November 2019 /S/ Matthew Rauch  
DATE STATE SIGNING AND MARKING ENGINEER  
FHWA



**MULTI-LANE**



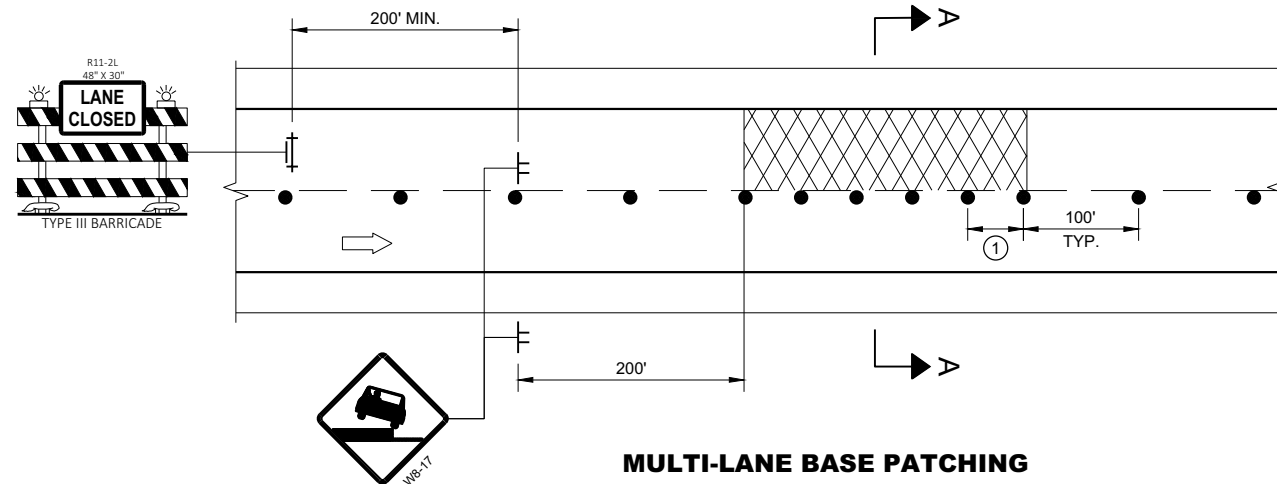
**TWO-WAY TWO LANE**



**SECTION A - A**

**OR**

**SECTION A - A**



**MULTI-LANE BASE PATCHING**

**ADJACENT LANE DROP-OFFS**

**GENERAL NOTES**

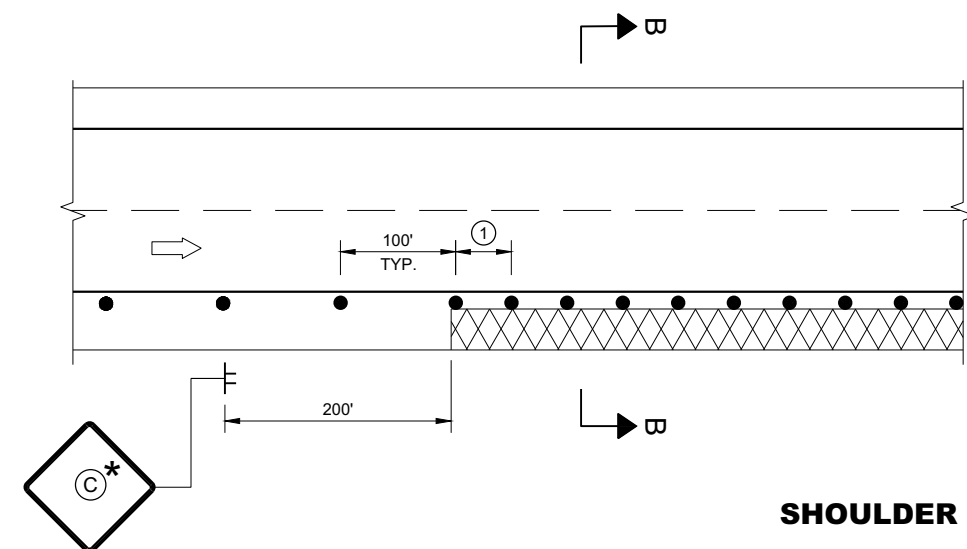
- FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.
- \* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.
- ① USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

**LEGEND**

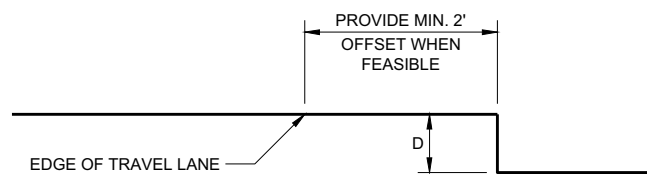
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

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**SHOULDER DROP-OFFS**



**SECTION B - B**

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	 LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	 SHOULDER DROP-OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

SDD 15D39 - 02

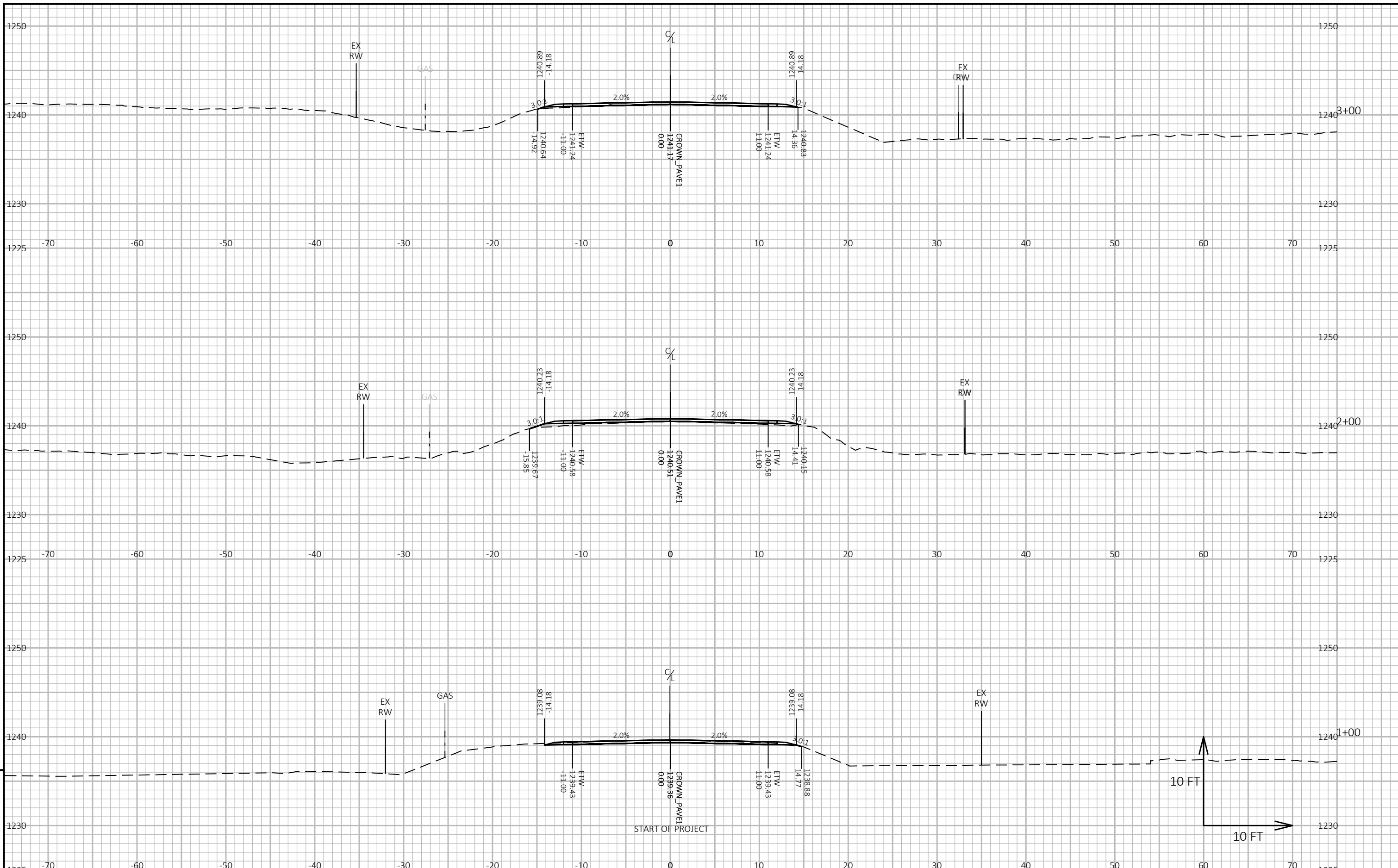
SDD 15D39 - 02

**TRAFFIC CONTROL,  
DROP-OFF SIGNING**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA

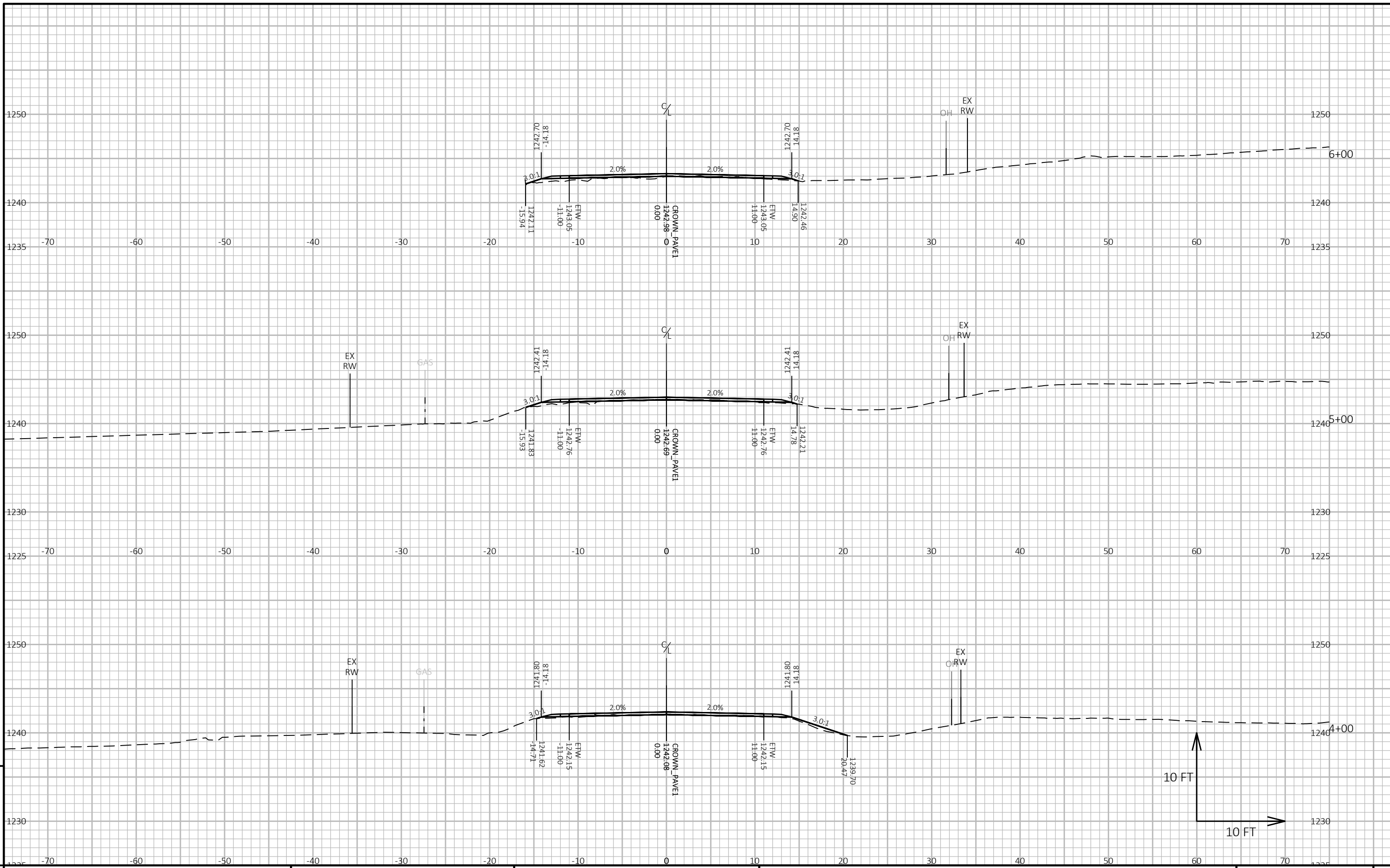


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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:58 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49



9

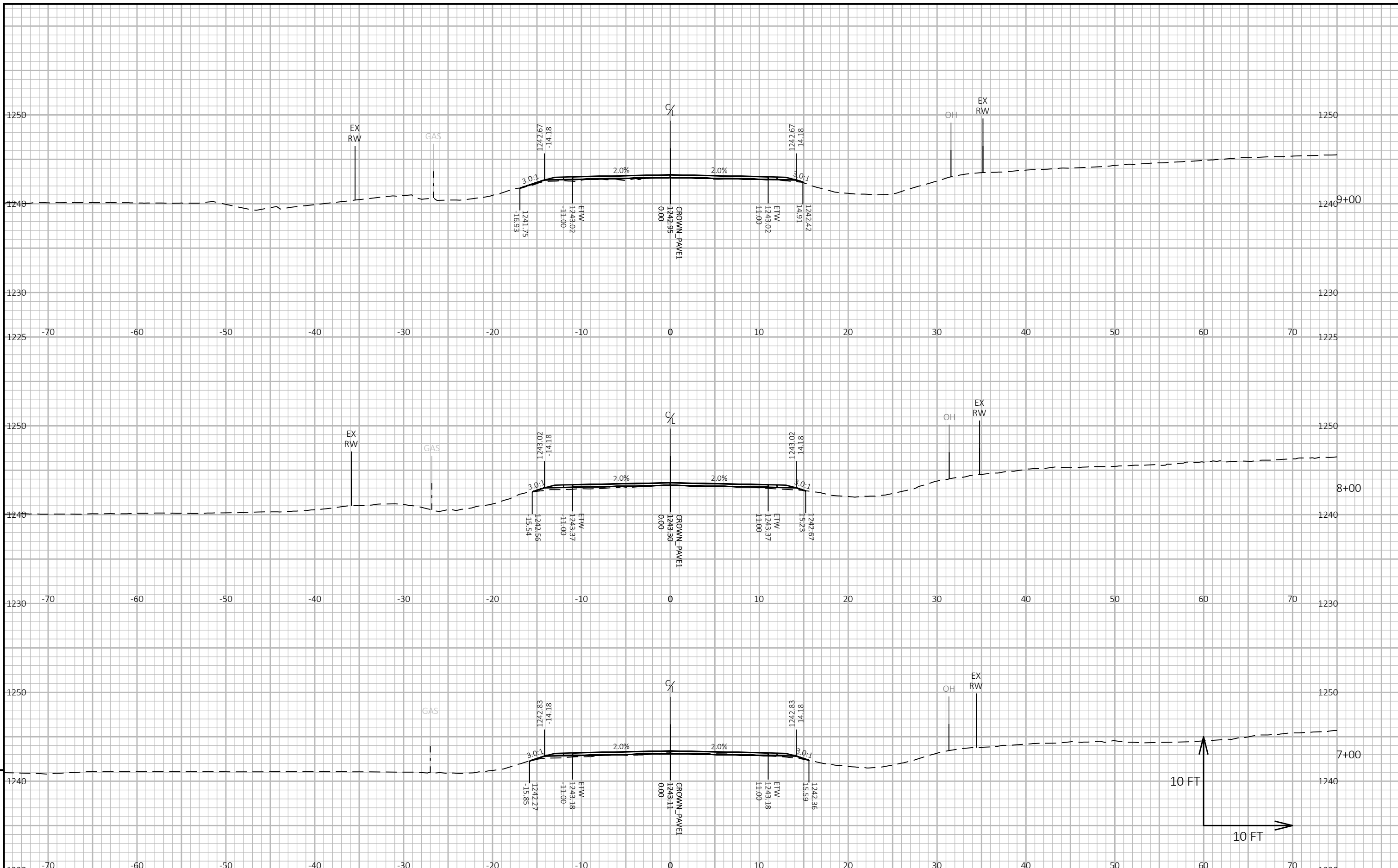
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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:58 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49

LAYOUT NAME: -02



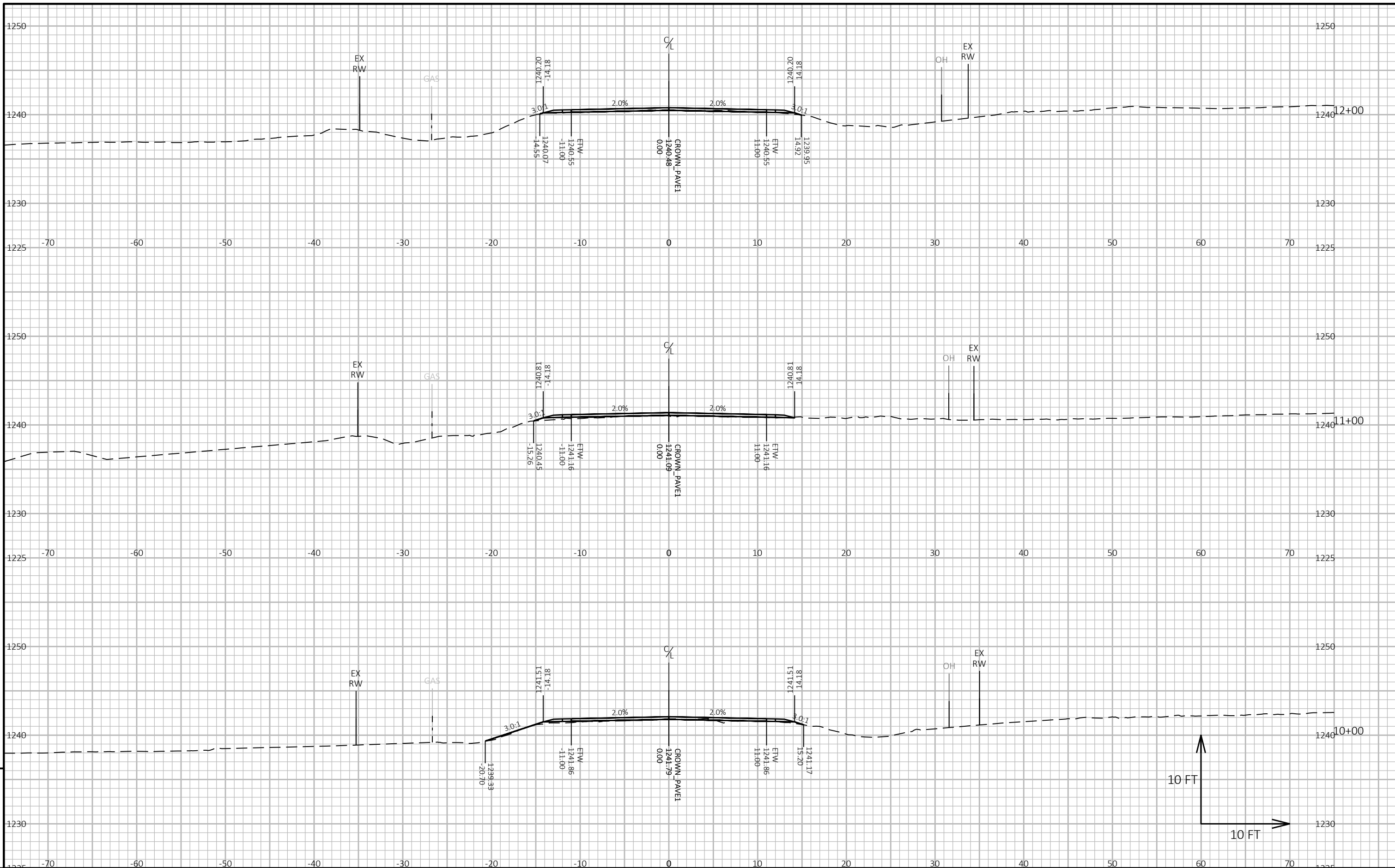


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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:58 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49



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PROJECT NO: 6999-00-83

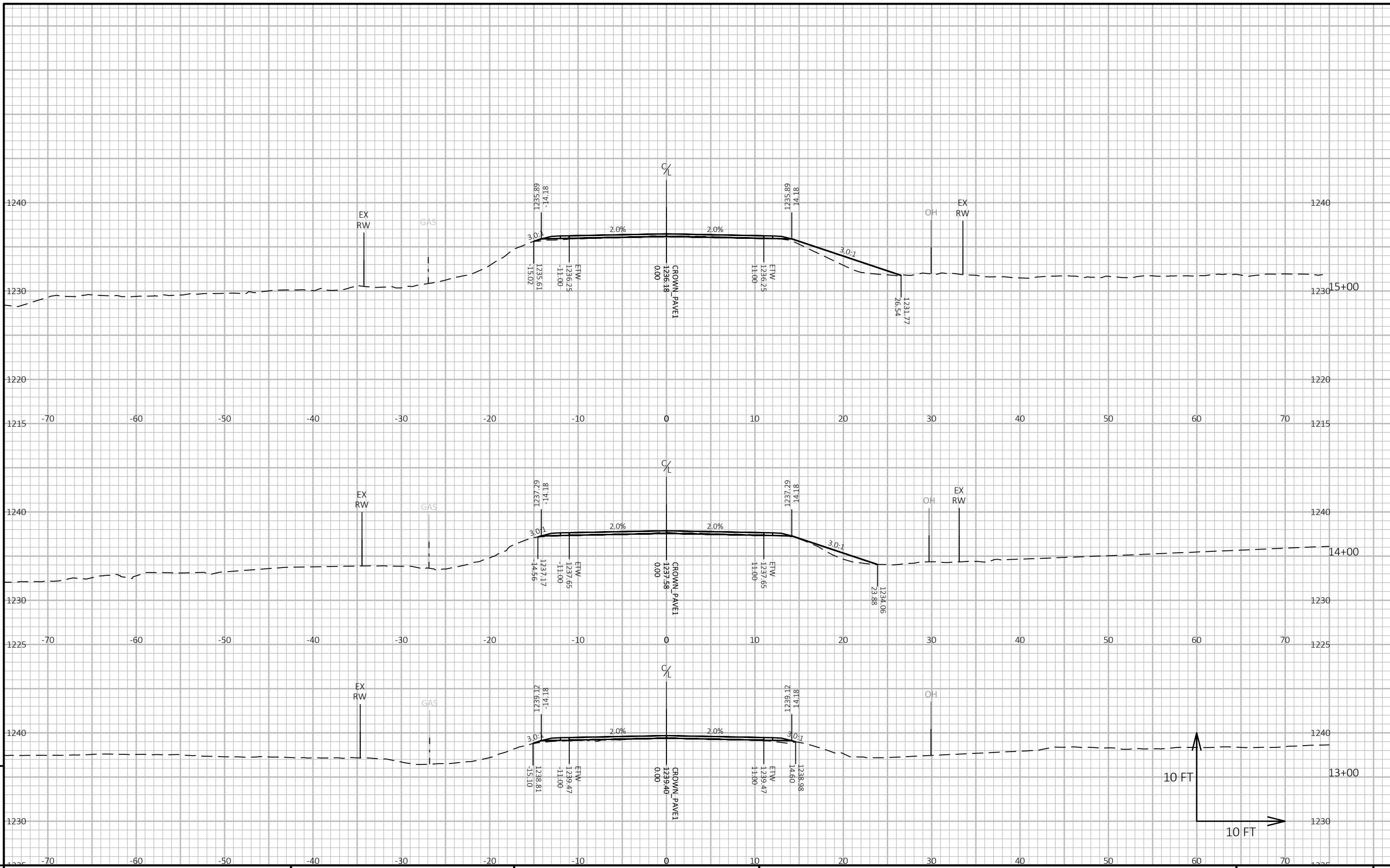
HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

E

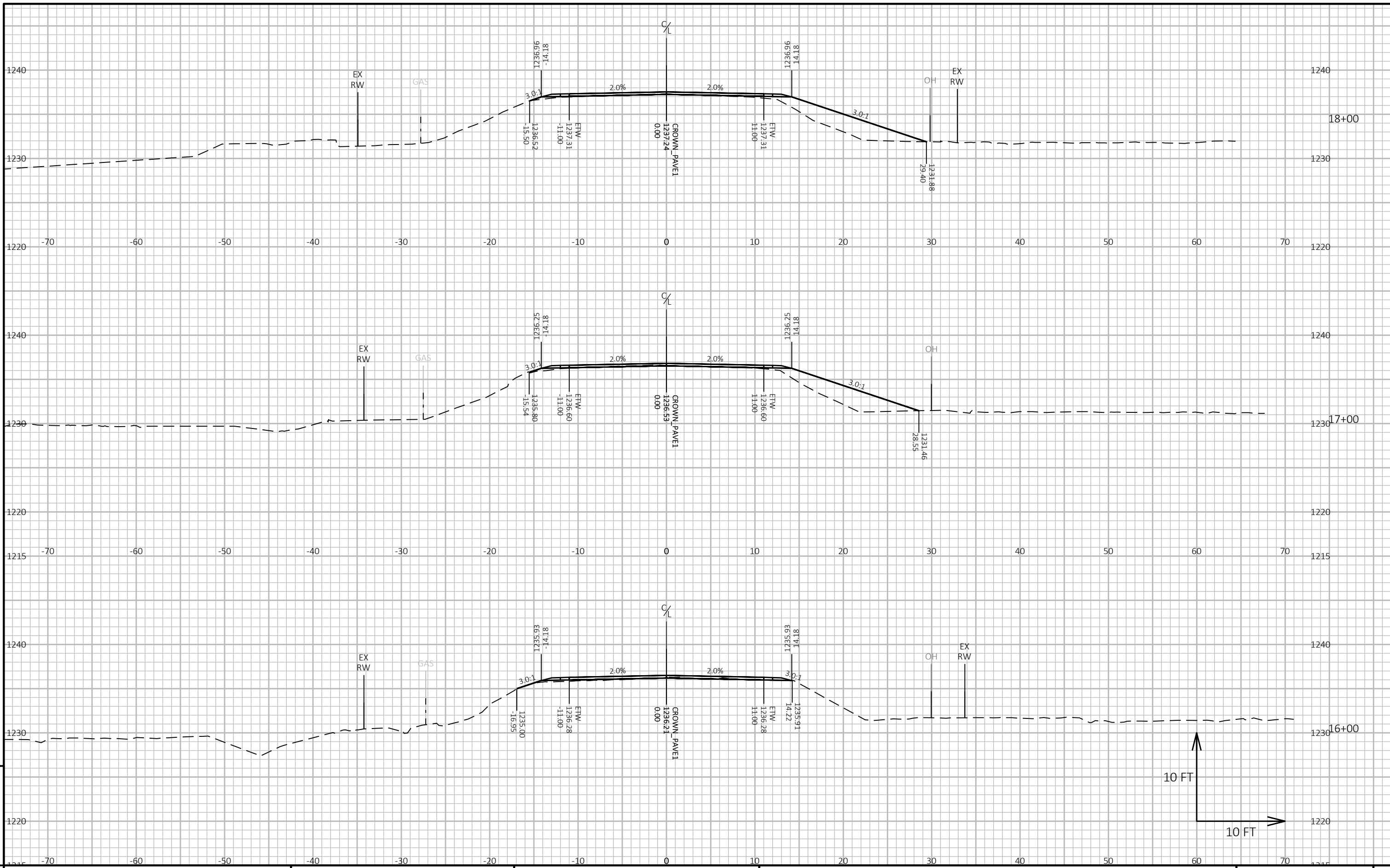


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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:58 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49

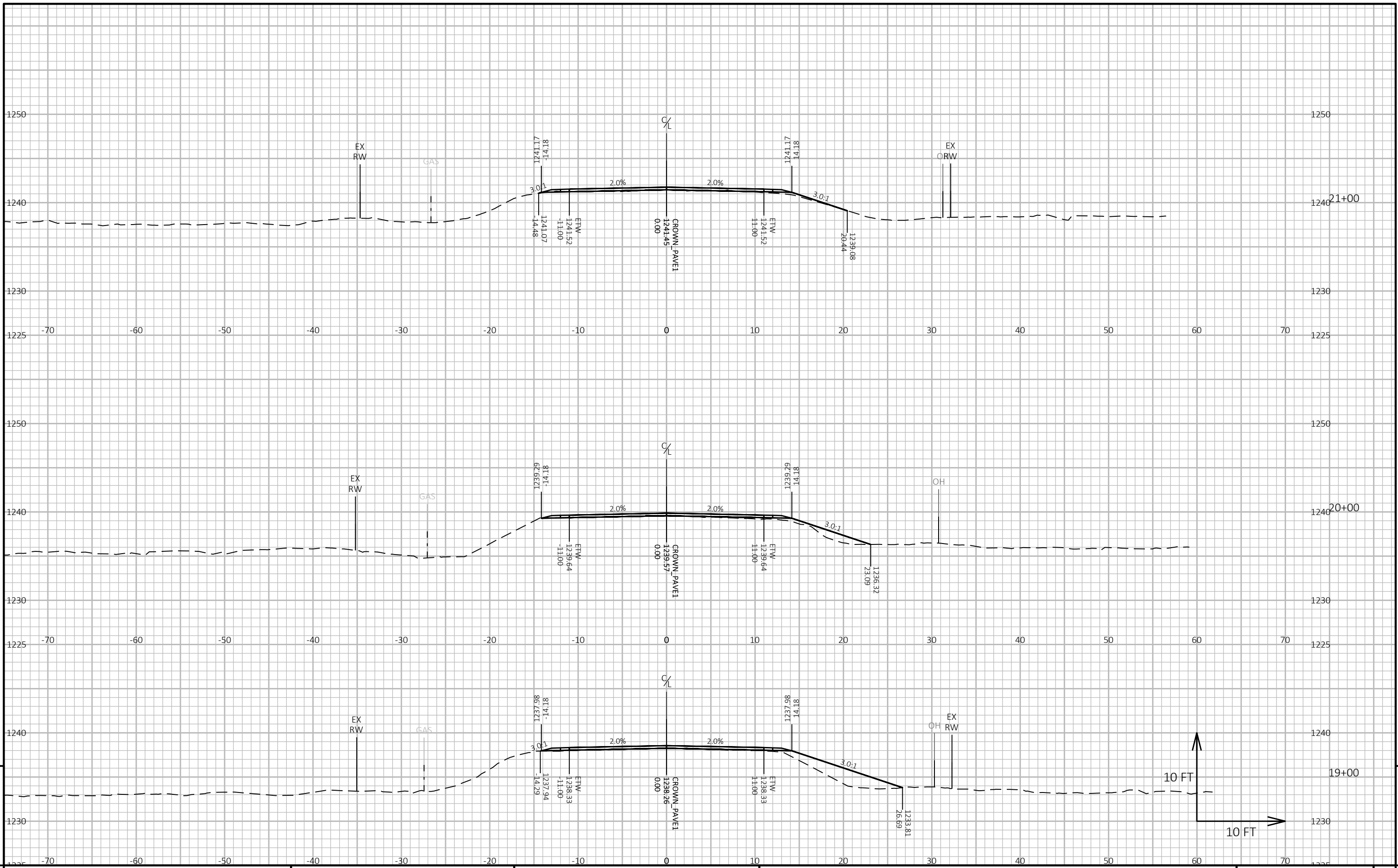


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9

PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:58 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49



PROJECT NO: 6999-00-83

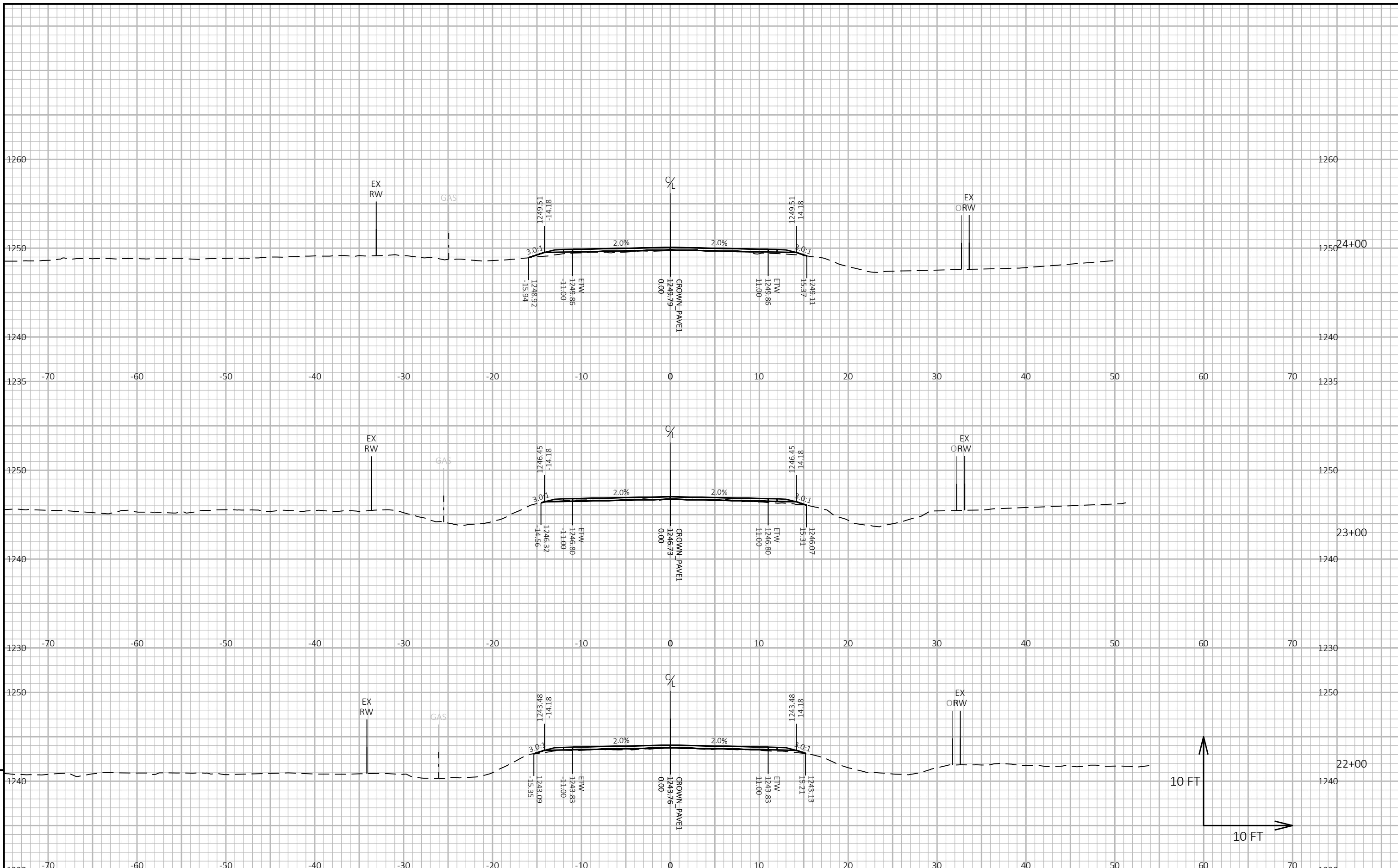
HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

E

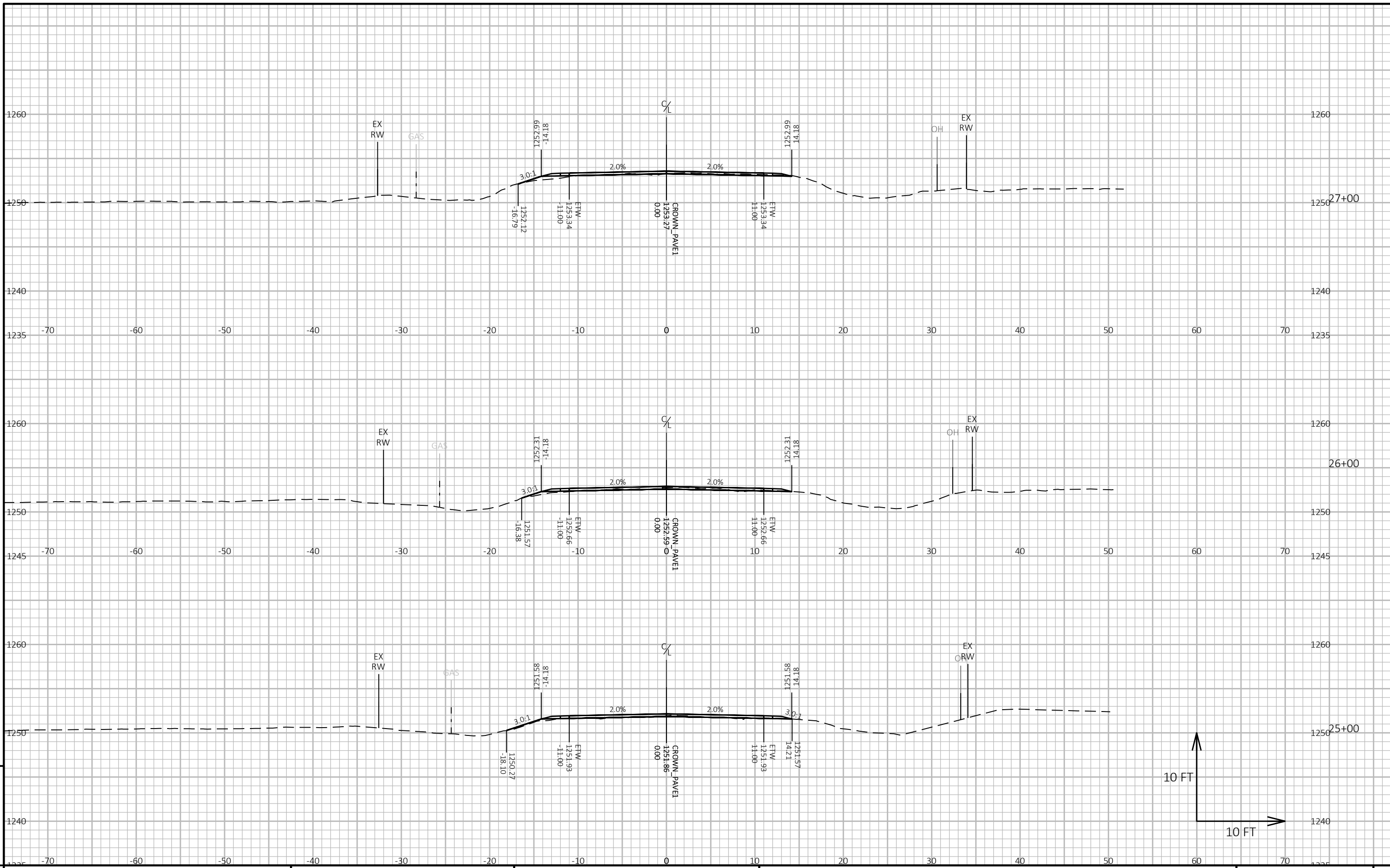


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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:58 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49



PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET 9

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:58 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49



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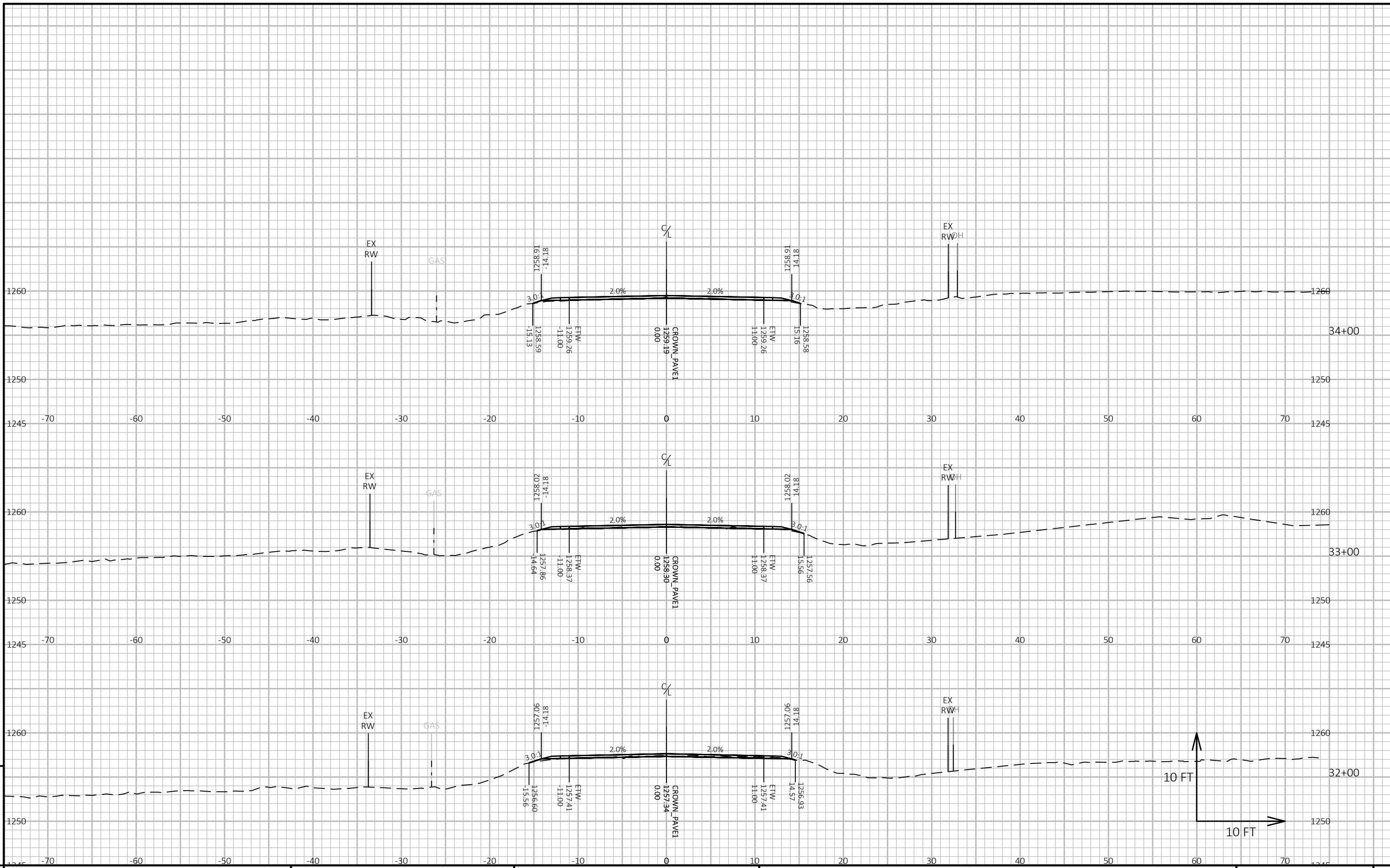
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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

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LAYOUT NAME - 10





PROJECT NO: 6999-00-83

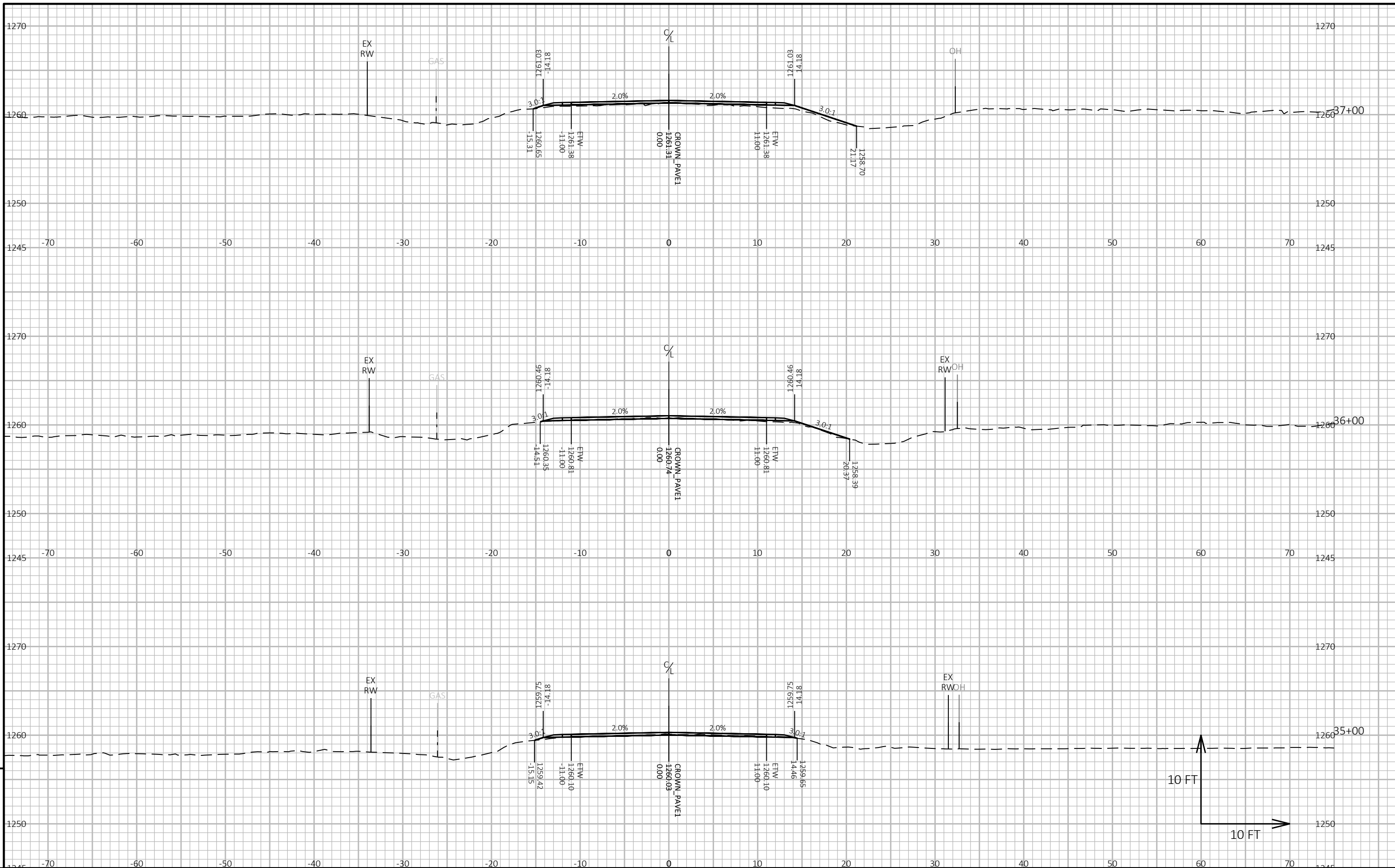
HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

E



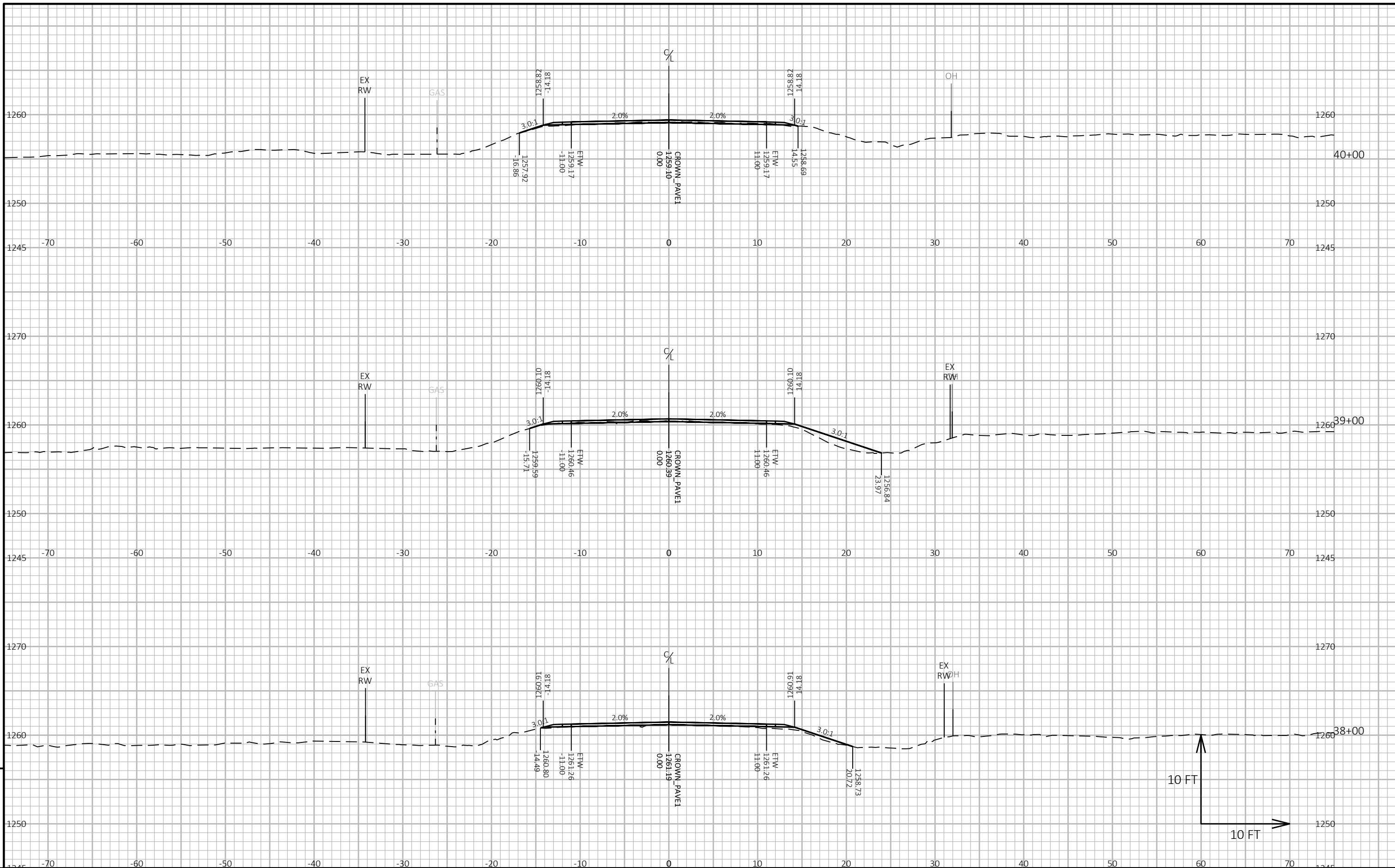
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PROJECT NO: 6999-00-83    HWY: GUSMAN RD    COUNTY: MARATHON    CROSS SECTIONS: GUSMAN RD    SHEET    E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG    PLOT DATE: 11/30/2023 10:59 AM    PLOT BY: JUSTIN N. HAASE    PLOT NAME:    PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.    WISDOT/CADD SHEET 49

LAYOUT NAME - 12



PROJECT NO: 6999-00-83

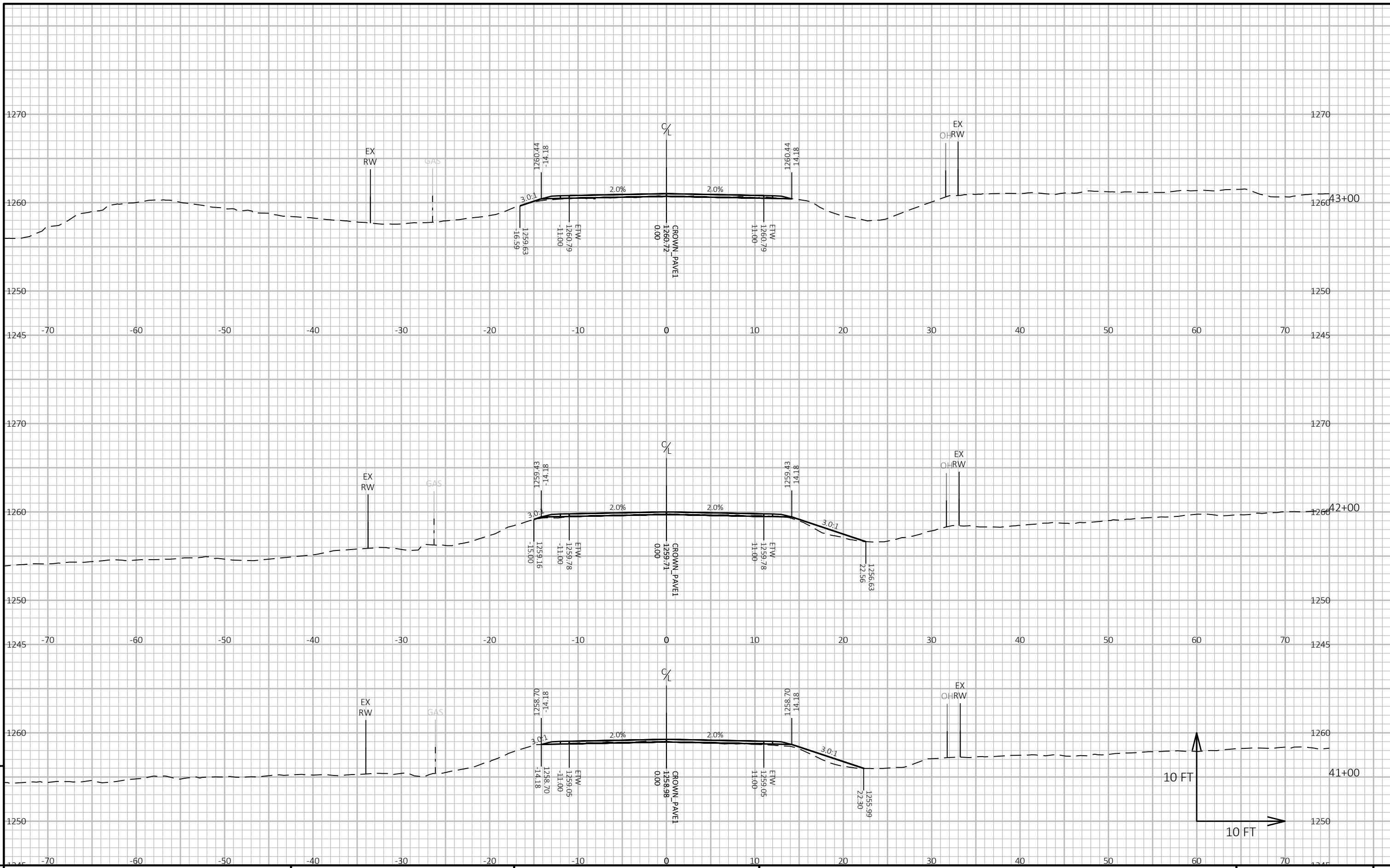
HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

E



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PROJECT NO: 6999-00-83

HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

E



PROJECT NO: 6999-00-83

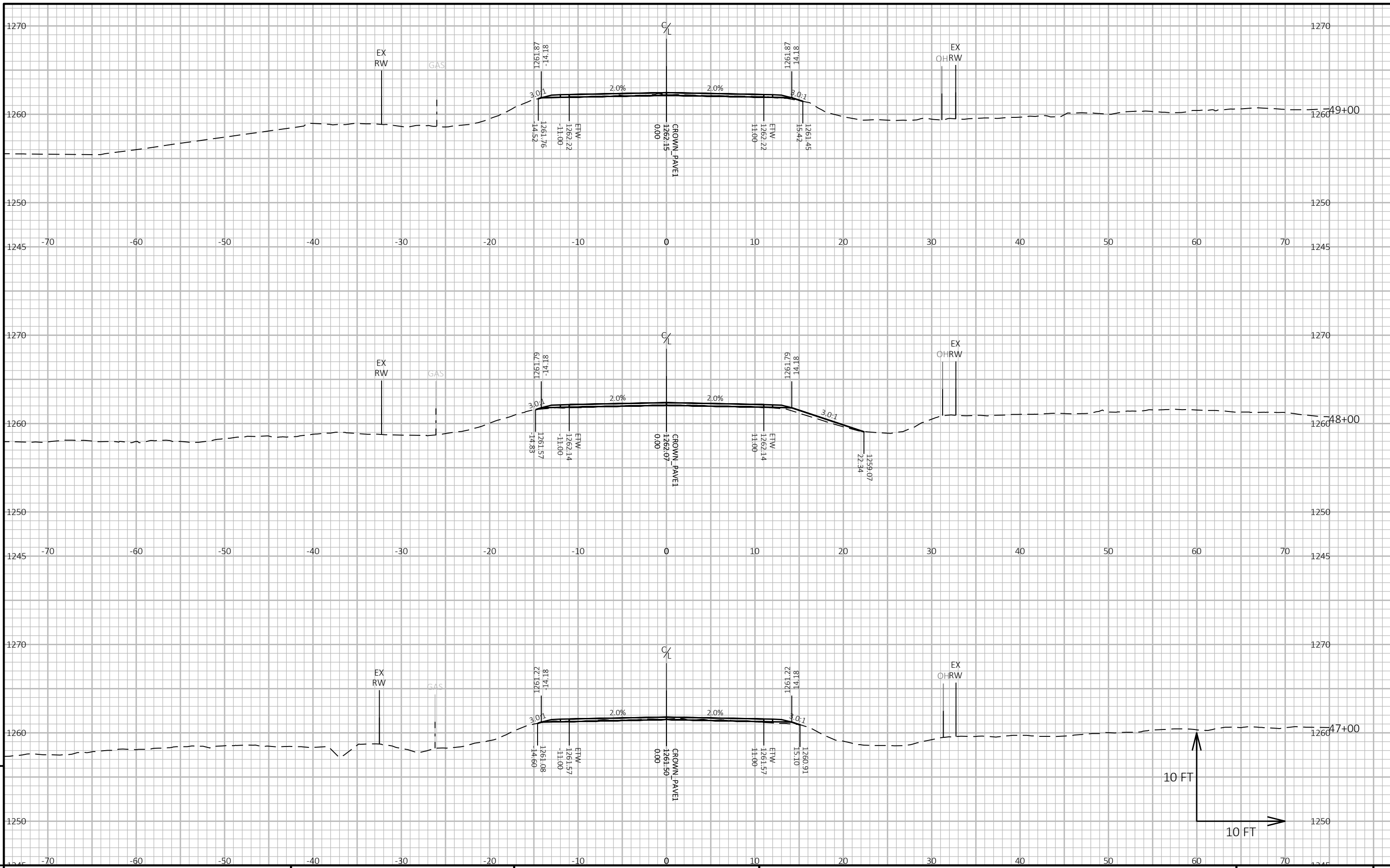
HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

E



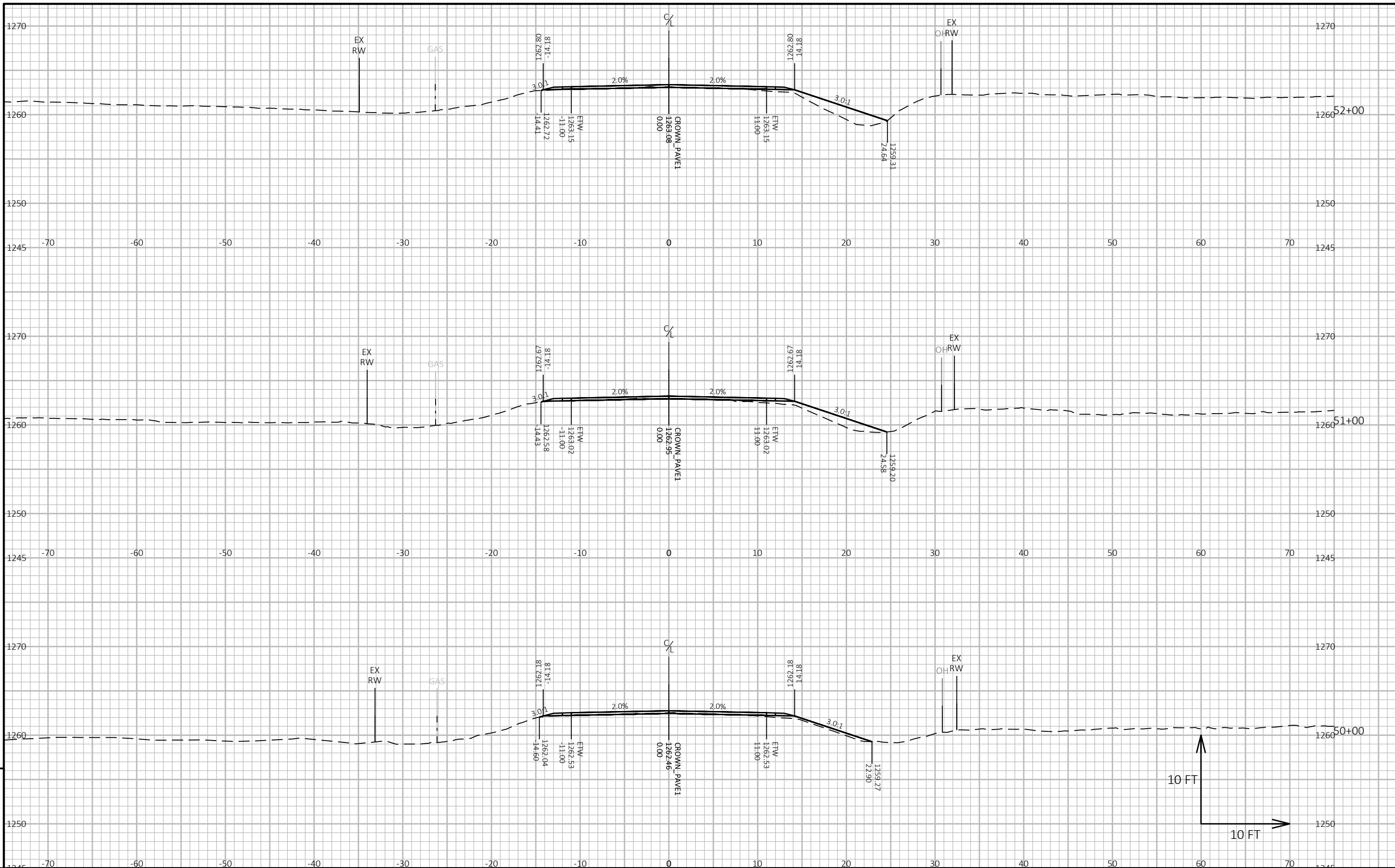
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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:59 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49

LAYOUT NAME - 16



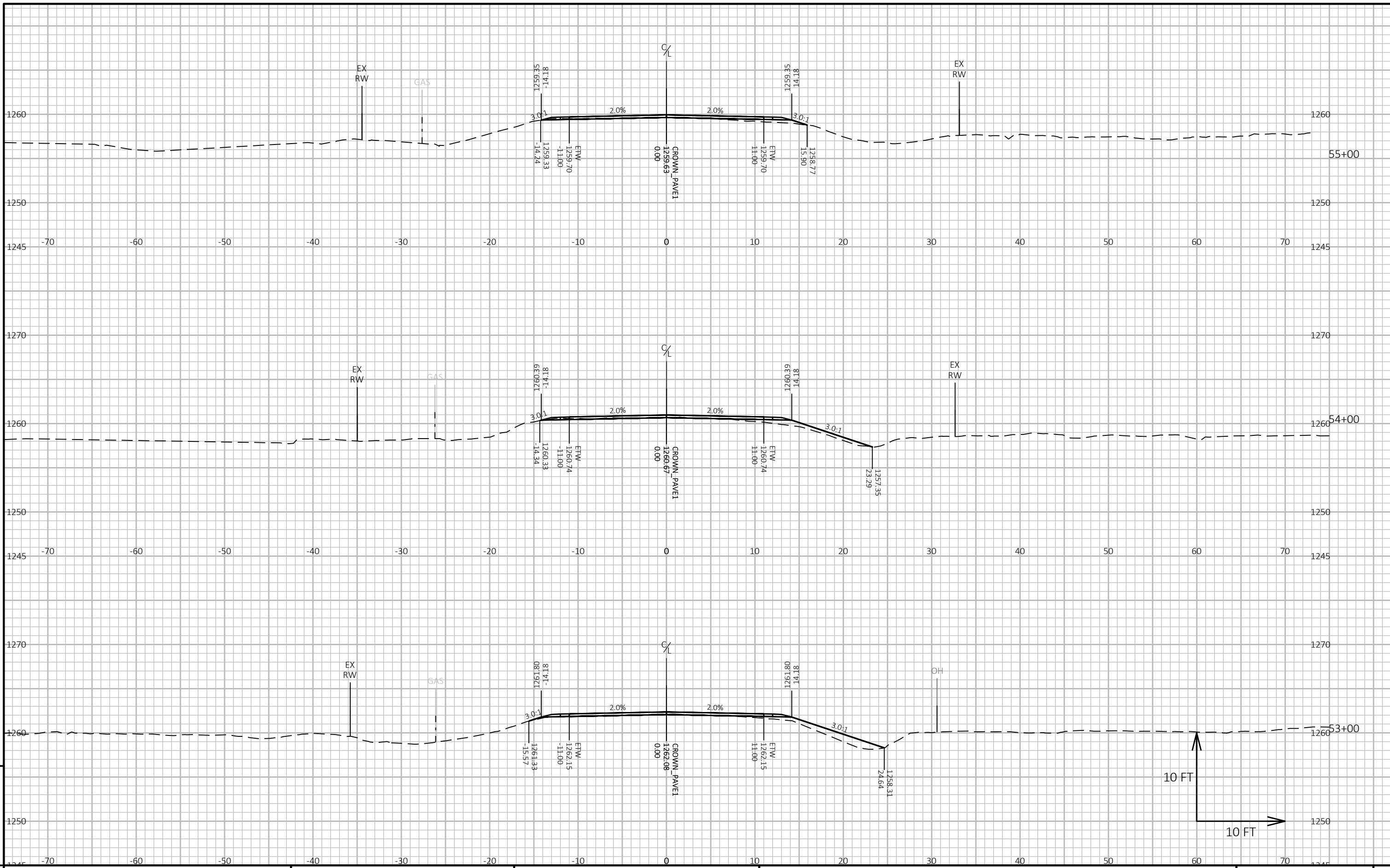
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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:59 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49

LAYOUT NAME - 17



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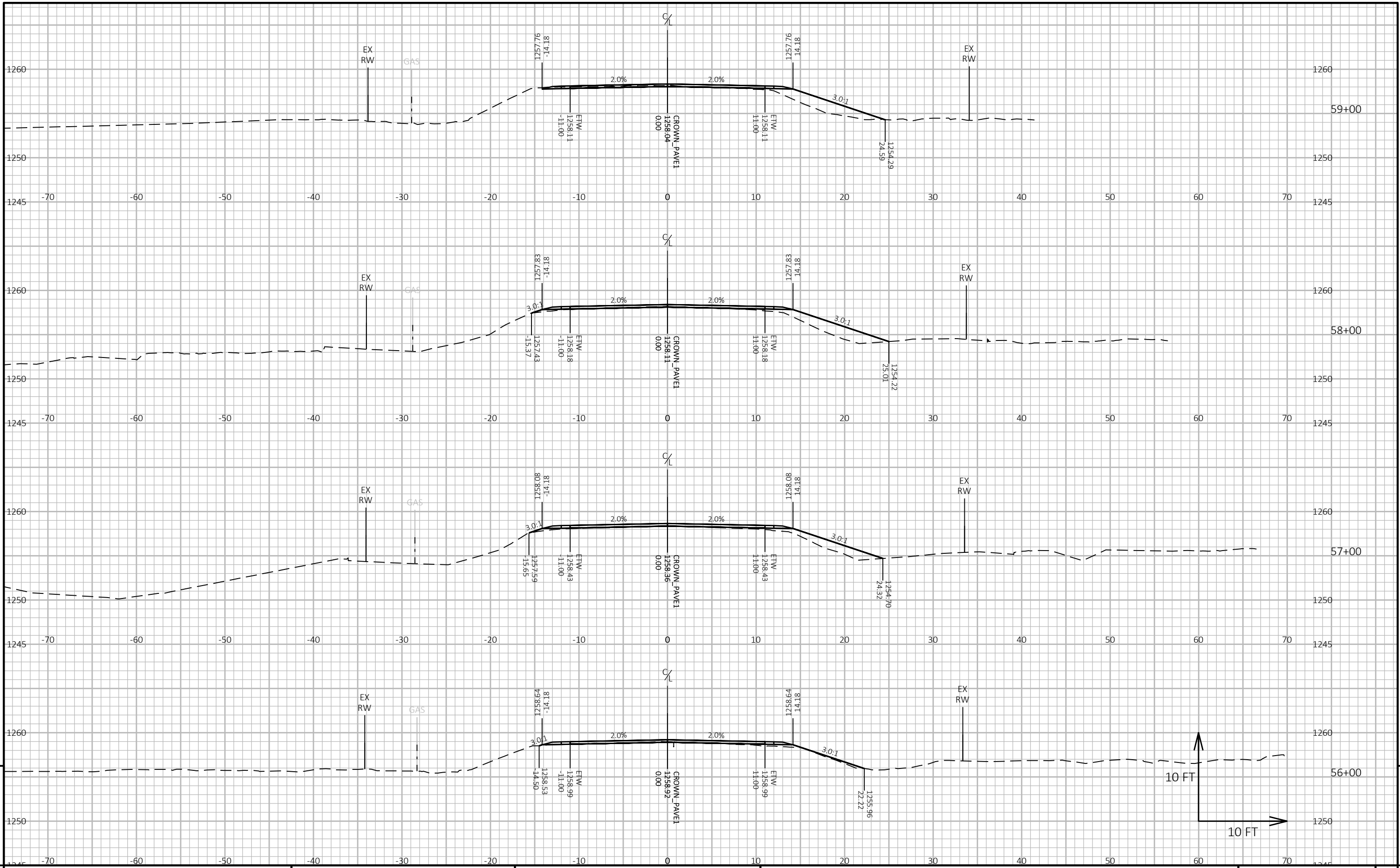
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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME: P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE: 11/30/2023 10:59 AM      PLOT BY: JUSTIN N. HAASE      PLOT NAME:      PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49

LAYOUT NAME - 18





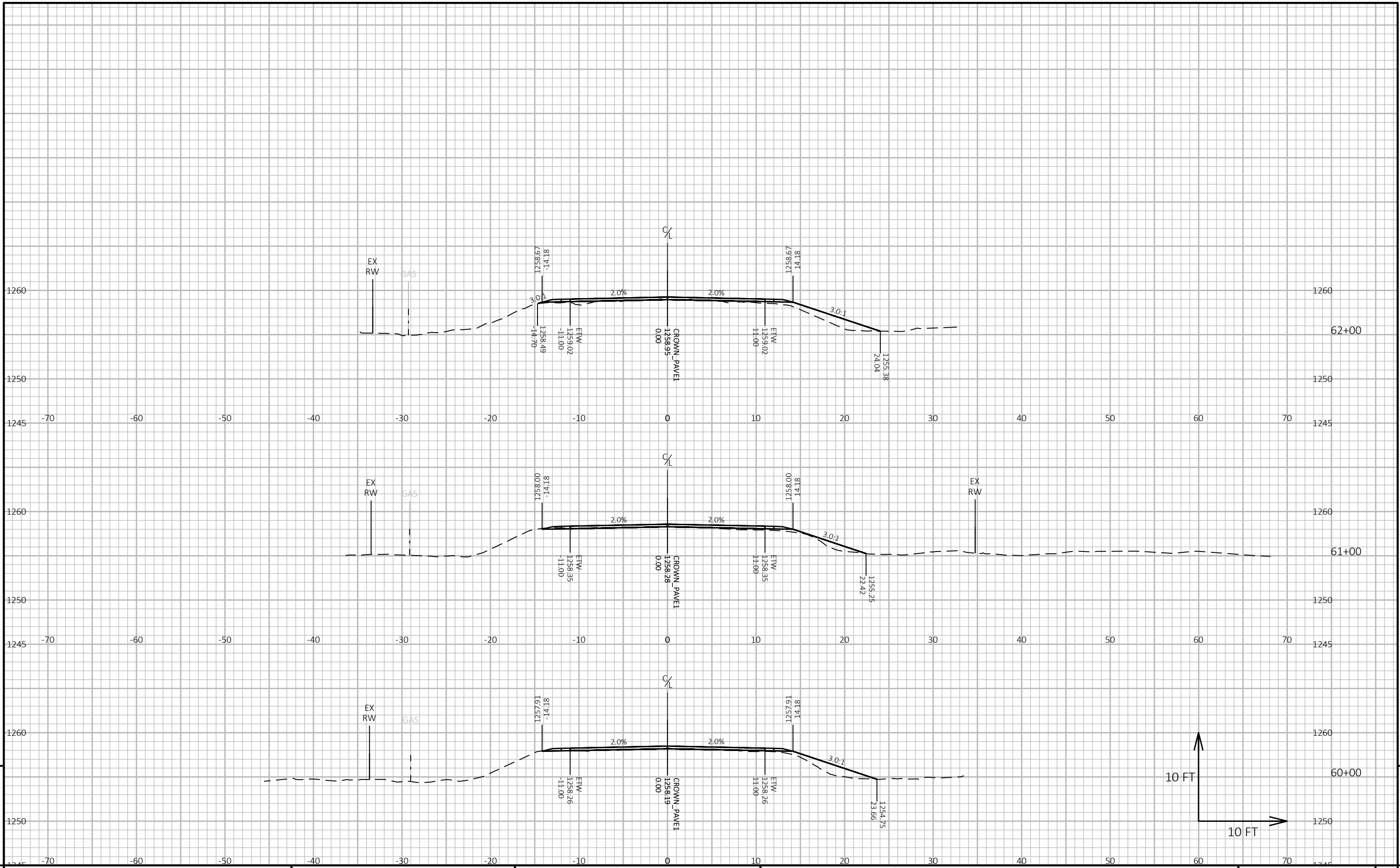
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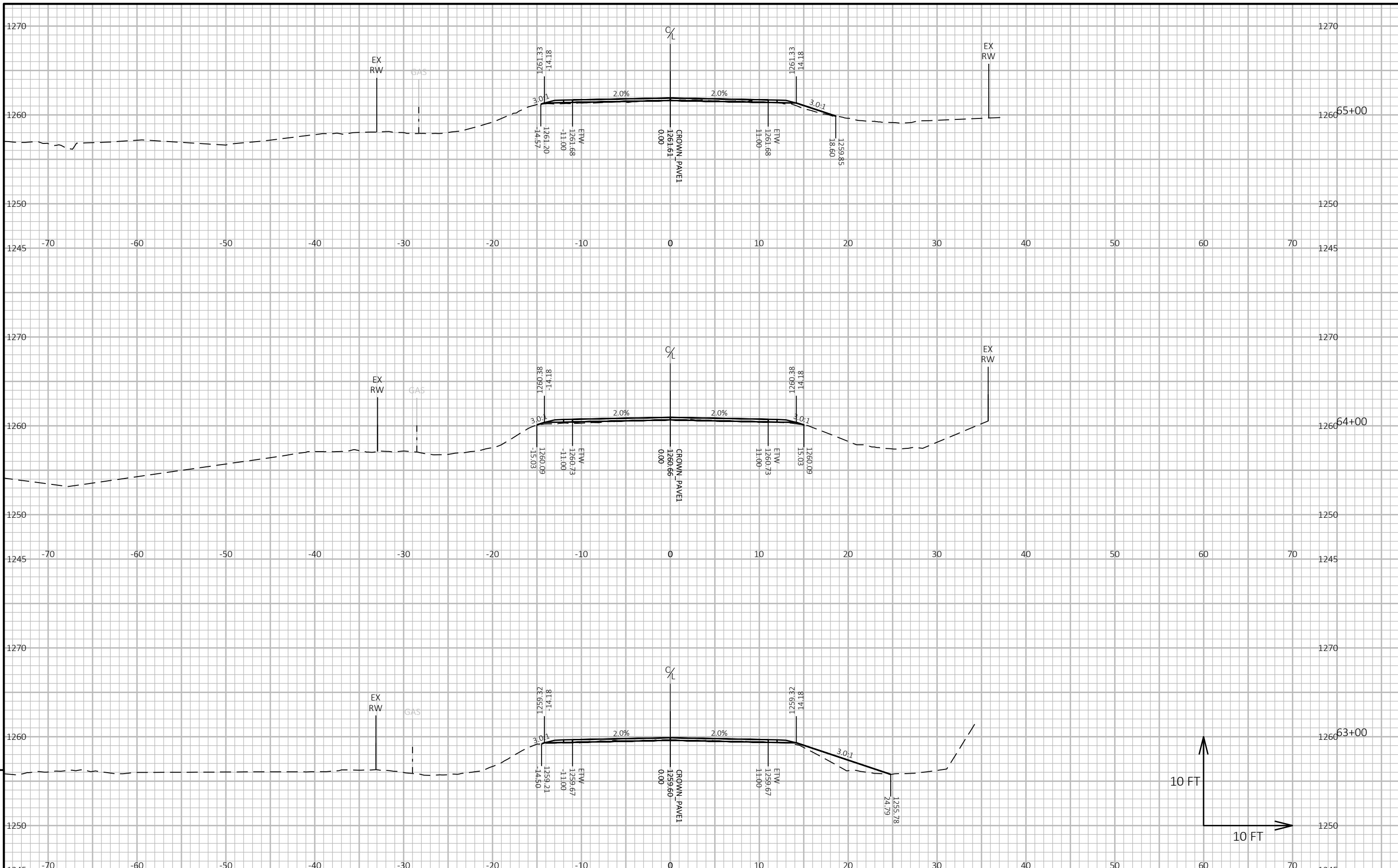
PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

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LAYOUT NAME - 19



PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E



PROJECT NO: 6999-00-83

HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

E



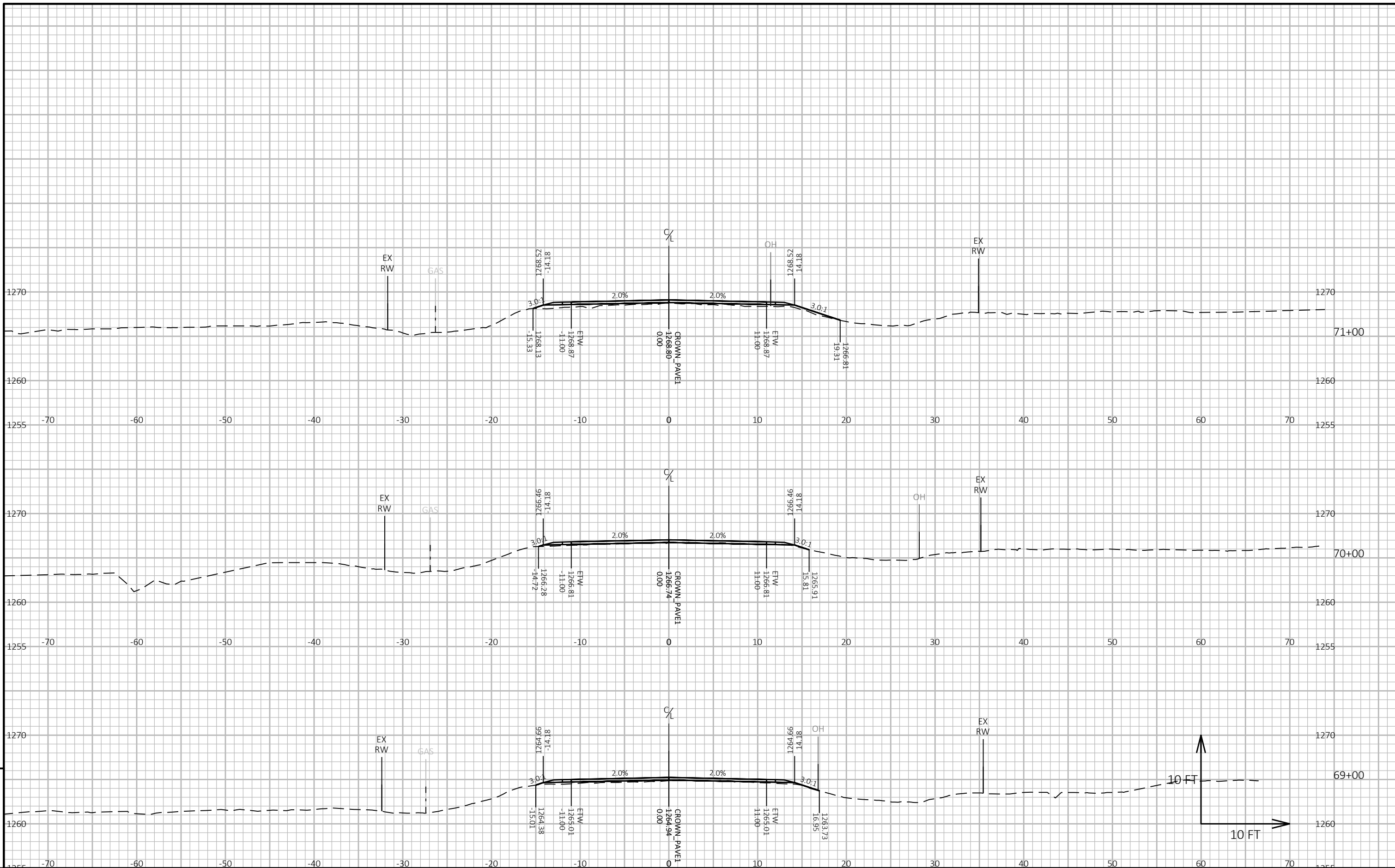
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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

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LAYOUT NAME - 22



PROJECT NO: 6999-00-83

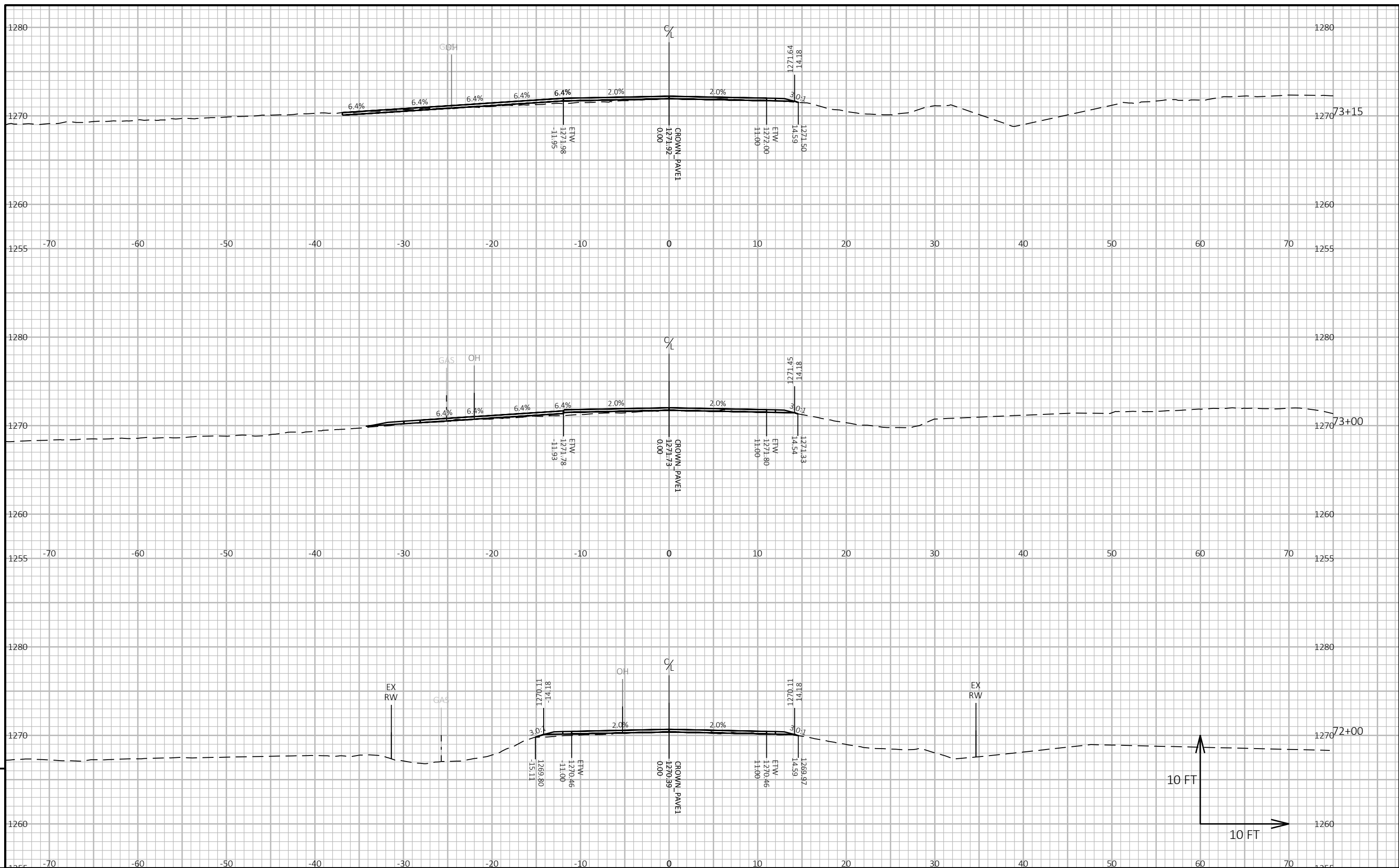
HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

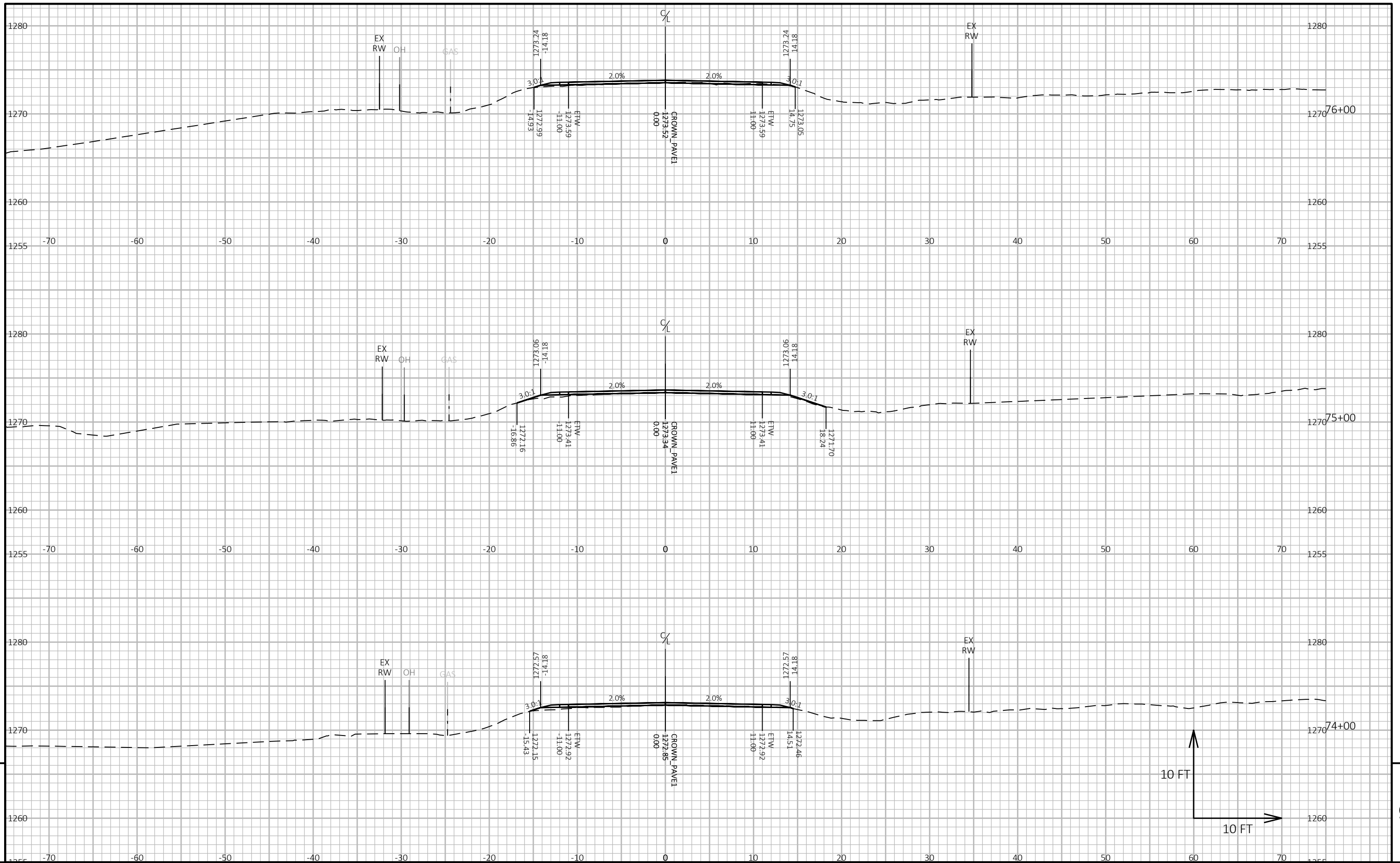
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PROJECT NO: 6999-00-83	HWY: GUSMAN RD	COUNTY: MARATHON	CROSS SECTIONS: GUSMAN RD	SHEET	E
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PROJECT NO: 6999-00-83

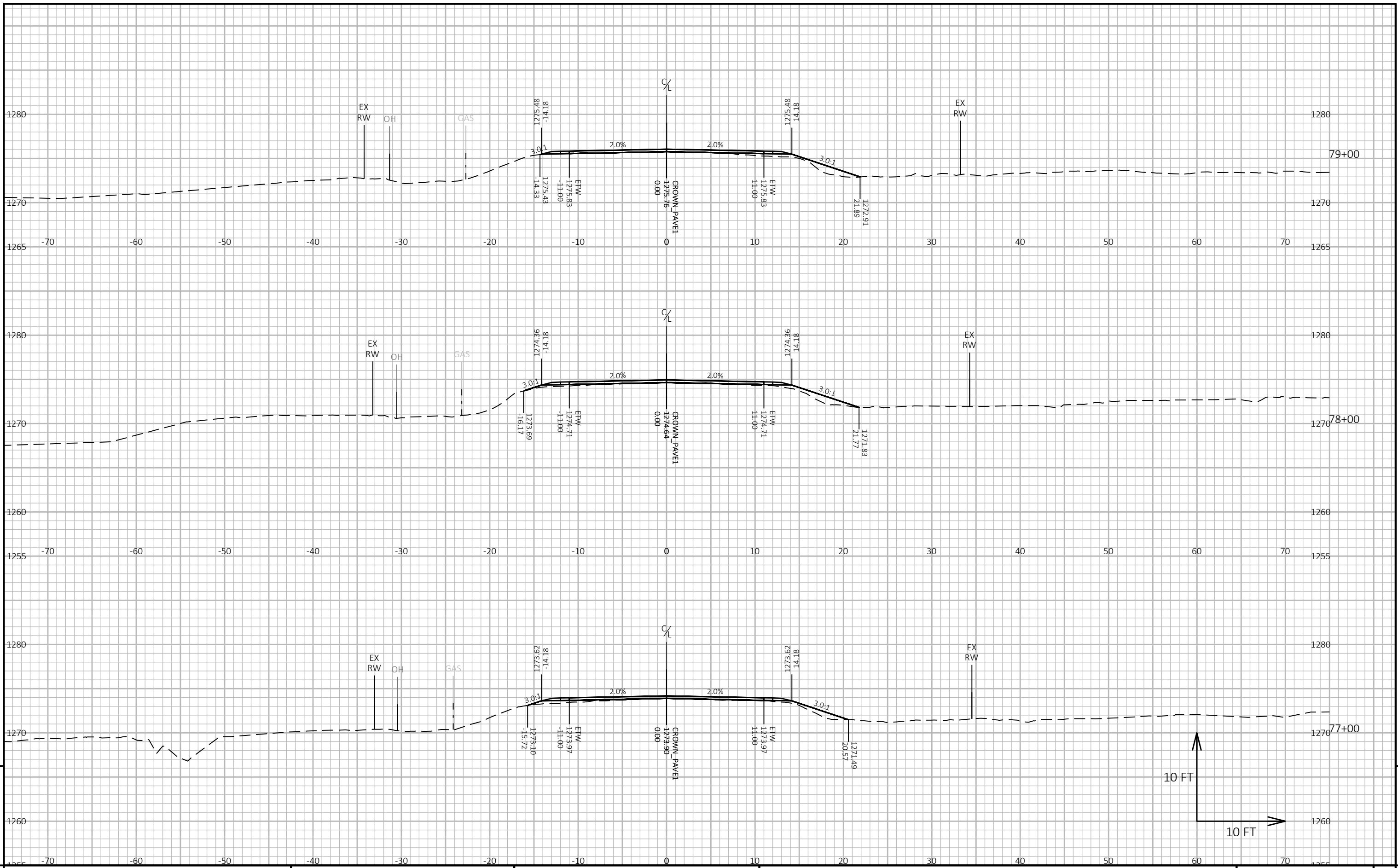
HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

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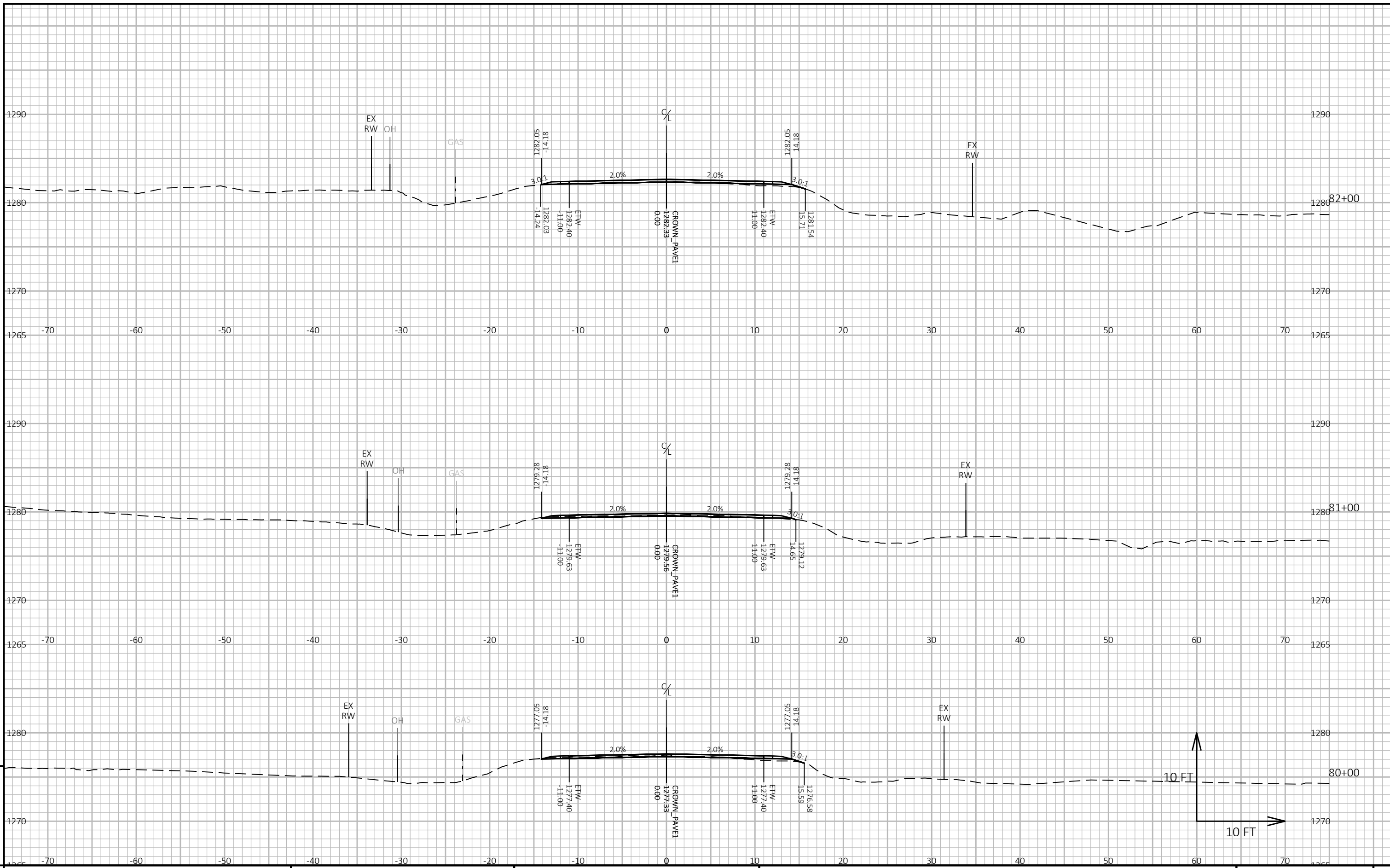
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PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E

FILE NAME : P:\2022\2022.043 - T OF WESTON - GUSMAN RD\699-00-13\_83\SHEETS\090201-XS.DWG      PLOT DATE : 11/30/2023 10:59 AM      PLOT BY : JUSTIN N. HAASE      PLOT NAME :      PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49

LAYOUT NAME - 26





PROJECT NO: 6999-00-83

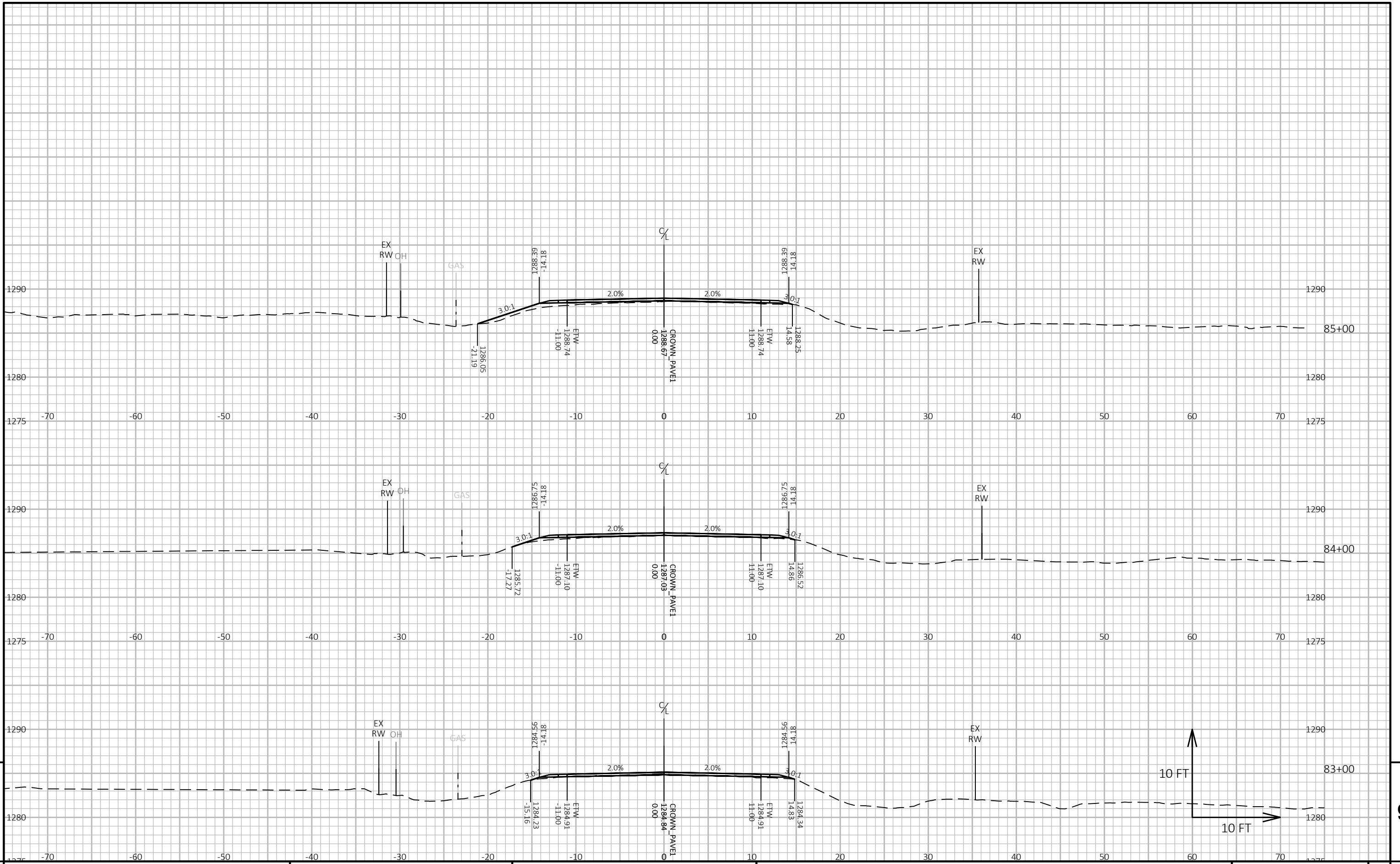
HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

E



PROJECT NO: 6999-00-83

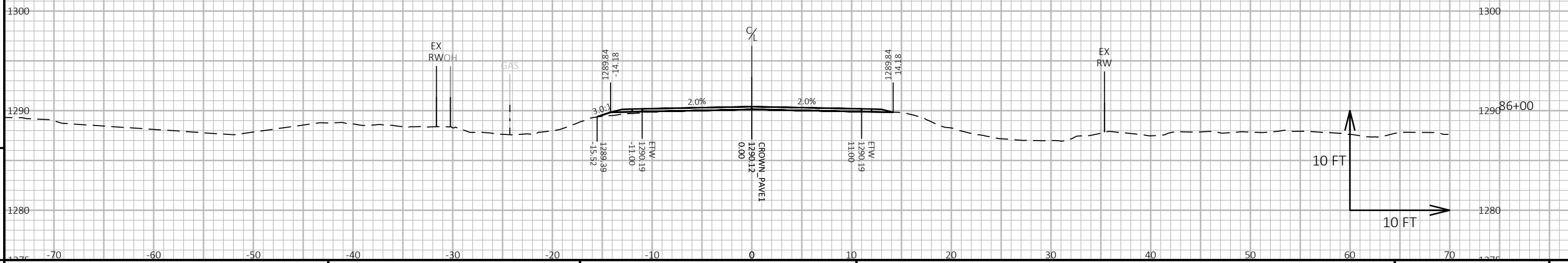
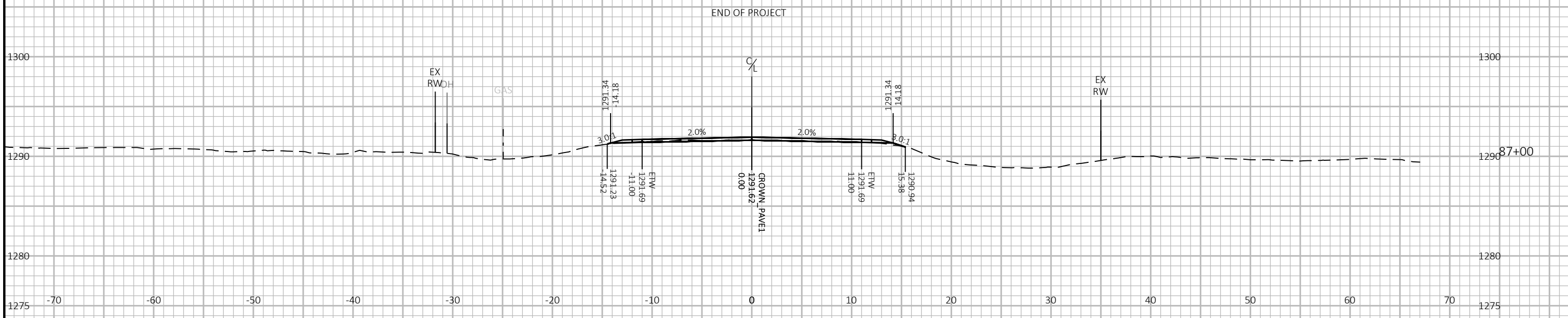
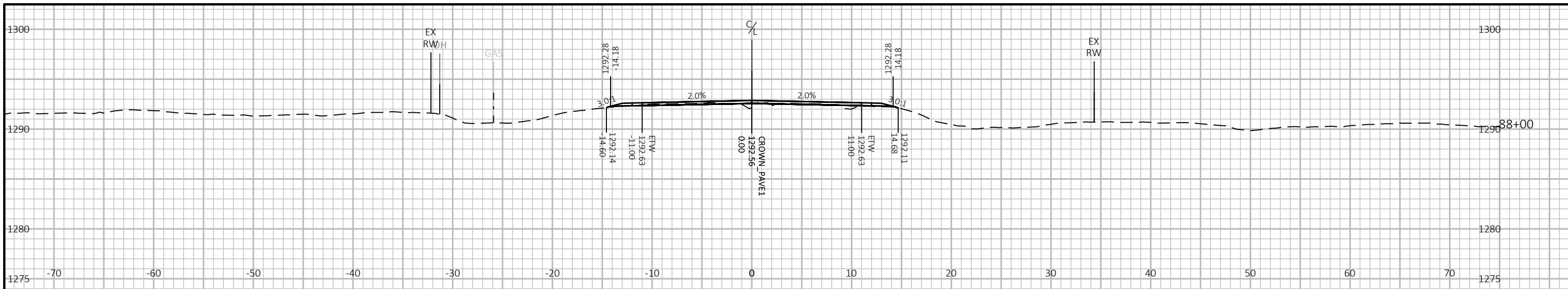
HWY: GUSMAN RD

COUNTY: MARATHON

CROSS SECTIONS: GUSMAN RD

SHEET

E



PROJECT NO: 6999-00-83      HWY: GUSMAN RD      COUNTY: MARATHON      CROSS SECTIONS: GUSMAN RD      SHEET      E



## ***Wisconsin Department of Transportation***

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