

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 = 30



DESIGN DESIGNATION

A.A.D.T. (2022)	=	100
A.A.D.T. (2042)	=	105
D.H.V.	=	24
D.D.	=	60/40
T.	=	6%
DESIGN SPEED	=	55 mph
ESALS	=	47,000

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

PRAIRIE DU CHIEN, IRISH RIDGE ROAD

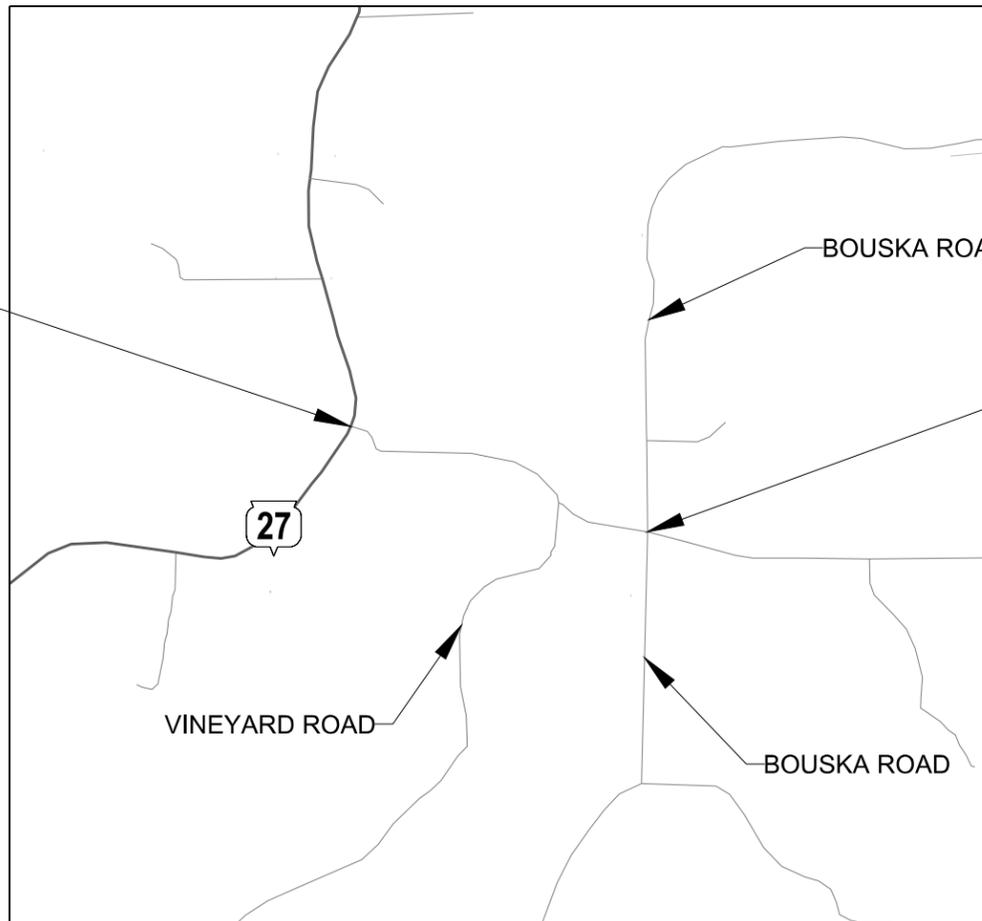
STH 27 TO BOUSKA ROAD

LOC STR CRAWFORD

STATE PROJECT NUMBER
5335-00-70

BEGIN PROJECT
STA 11+50
N = 127,899.562
E = 335,928.428

END PROJECT
STA 58+50
N = 126,490.466
E = 340,159.472



LAYOUT
SCALE 0 0.5 MI
TOTAL NET LENGTH OF CENTERLINE = 0.89 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), CRAWFORD 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 PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5335-00-70	WISC 2023016	1

ACCEPTED FOR
TOWN OF PRAIRIE DU CHIEN
Date: 7/21/22
Jeremy Krachey
(Signature and Title of Official)

ORIGINAL PLANS PREPARED BY
WISCONSIN PROFESSIONAL ENGINEER
JEREMY F. KRACHEY
E-37258
WAUZEKA, WI
DATE: 7/21/22
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PREPARED BY: TEAM ENGINEERING
Designer: TEAM ENGINEERING
Project Manager: BRANDAN BURGER, PE
Regional Examiner: SW REGION
Regional Supervisor: KYLE HEMP, PE

APPROVED FOR THE DEPARTMENT
DATE: 7/25/2022
Brandan Burger
(Signature)

LIST OF STANDARD ABBREVIATIONS

ABUT.	Abutment	JT	Joint	SEC	Section
AC	Acre	JCT	Junction	SHLDR	Shoulder
AGG.	Aggregate	LHF	Left-Hand Forward	SHR	Shrinkage
AH	Ahead	L	Length of Curve	SW	Sidewalk
<	Angle	LIN FT OR LF	Linear Foot	S	South
ASPH	Asphaltic	LC	Long Chord of Curve	SQ	Square
AVG.	Average	MH	Manhole	SF OR SQ FT	Square feet
A.D.T.	Average Daily Traffic	MB	Mailbox	SY OR SQ YD	Square Yard
BAD	Base Aggregate Dense	N	Match Line	STD	Standard
BK	Back	ML OR M/L	Match Line	SDD	Standard Detail Drawings
BF	Back Face	N	North	STH	State Trunk Highways
B.M	Back Face	Y	North Grid Coordinate	STA	Station
BR	Bench Mark	OAL	Overall Length	SS	Storm Sewer
C/L	Bridge	OD	Outside Diameter	SG	Subgrade
CC	Center Line	PLE	Permanent Limited Easement	SE	Superelevation
CTH	Center to Center	PT	Point	SL OR S/L	Survey Line
CR	County Trunk Highway	PC	Point of Curvature	SV	Septic Vent
CY OR CU YD	Creek	PI	Point of Intersection	T	Tangent
CP	Crushed	PRC	Point of Reverse Curvature	TEL	Telephone
C & G	Cubic Yard	PT	Point of Tangency	TEMP	Temporary
D	Culvert Pipe	POT	Point on curve	TI	Temporary Interest
DHV	Curb and Gutter	PVC	Point on Tangent	TLE	Temporary Limited Easement
DIA	Degree of Curve	PCC	Polyvinyl Chloride	t	Ton
E	Design Hour Volume	LB	Portland Cement Concrete	T OR TN	Town
E	Diameter	PSI	Pound	TRANS	Transition
ELEC	East	PE	Pounds Per Square Inch	TL OR T/L	Transit Line
EL OR ELEV	East Grid Coordinate	R	Private Entrance	T	Trucks (percent of)
ESALS	Electric	RR	Radius	TYP	Typical
EBS	Elevation	RL OR R/L	Railroad	UNCL	Unclassified
FF	Equivalent Single Axle Loads	RP	Reference Line	UG	Underground Cable
FE	Excavation Below Subgrade	RCCP	Reference Point	USH	United States Highway
F	Face to Face	REQD	Reinforced Concrete Culvert Pipe	VAR	Variable
FG	Field Entrance	RES	Required	V	Velocity or Design Speed
FL OR F/L	Field	RW	Residence or Residential	VERT	Vertical
FT	Finished Grade	RT	Retaining Wall	VC	Vertical Curve
FTG	Flow Line	RHF	Right	VOL	Volume
GN	Foot	R/W	Right-Hand Forward	WV	Water Main
HT	Footing	R	Right-of-Way	W	Water Valve
CWT	Grid North	RD	River	WB	West
HYD	Height	RDWY	Road	YD	Westbound
INL	Hundredweight	SALV	Roadway		Yard
ID	Hydrant	SAN S	Sanitary Sewer		
INV	Inlet				
IP	Inside Diameter				
IRS	Invert				
	Iron Pipe or Pin				
	Iron Rod Set				

GENERAL NOTES

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGER'S HOTLINE AND/OR A CALL TO THE UTILITIES THAT HAVE INSTALLATIONS WITHIN THE PROJECT AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGER'S HOTLINE.

RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

ALL RADII ARE MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PIPE-LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAY SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER PIPE IN DRIVEWAY AREA IS INSTALLED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.

SAWCUT EXISTING ASPHALT PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION LIMITS ON SIDE ROADS AND PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER AND SHALL BE RESTORED IN KIND.

THE CONTRACTORS PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.

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

APPLY TACK COAT BETWEEN LAYERS OF PAVEMENT AND TO MILLED SURFACES. THE APPLICATION RATE IS 0.07 GALLONS PER SQUARE YARD BETWEEN THE MILLED SURFACE, 0.05 GALLONS PER SQUARE YARD BETWEEN NEW HMA PAVEMENT LAYERS, OR AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES, COMMERCIAL, AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL LAYOUT DATA IS REFERENCED TO THE C/L UNLESS OTHERWISE NOTED.

THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED OR EROSION CONTROL MAT PLACED AS DIRECTED BY THE ENGINEER.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATION:

UTILITIES

CENTURYLINK
DOUG MCGOWAN
130 4TH STREET
BARABOO, WI 53913
PHONE: (608) 482-5377
EMAIL: doug.mcgowan@lumen.com
COMMUNICATION

MADISON GAS AND ELECTRIC COMPANY
JANE ROSSING
P.O. BOX 1231
MADISON, WI 53701
PHONE: (608) 252-7099
EMAIL: workplans@mge.com
GAS

SCENIC RIVERS ENERGY COOPERATIVE
CHAD OLMSTEAD
231 N SHERIDAN ST
LANCASTER, WI 53813
PHONE: (608) 723-2121 ext 561
EMAIL: colmstead@srec.net
ELECTRIC

DESIGNER

TEAM ENGINEERING, INC.
210 GUARD STREET
WAUZEKA, WI 53826
ATTN: JEREMY KRACHEY, P.E.
PH: (608) 875-5075
jkrachey@teamenginc.com

DNR CONTACT

DEPARTMENT OF NATURAL RESOURCES
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
ATTN: KAREN KALVELAGE
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
PH: (608) 785-9115
karen.kalvelage@wisconsin.gov

WISDOT CONTACT

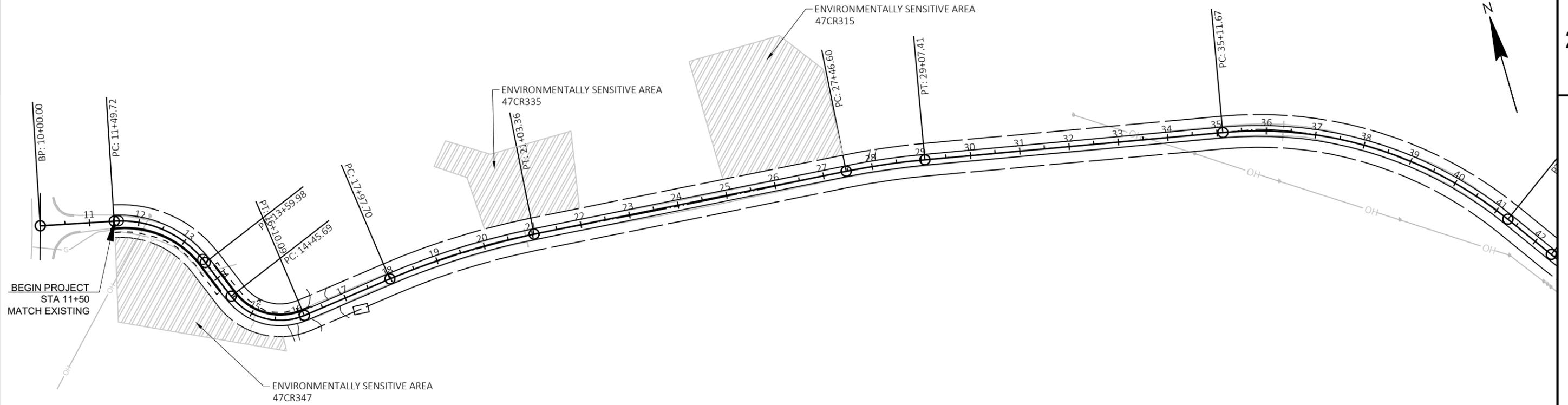
ATTENTION: BRANDAN BURGER, P.E.
LOCAL PROGRAM PROJECT MANAGER
WISDOT - SW REGION
2101 WRIGHT STREET
MADISON, WI 53704
WORK: (608)-267-4019
EMAIL: BRANDAN.BURGER@DOT.WI.GOV



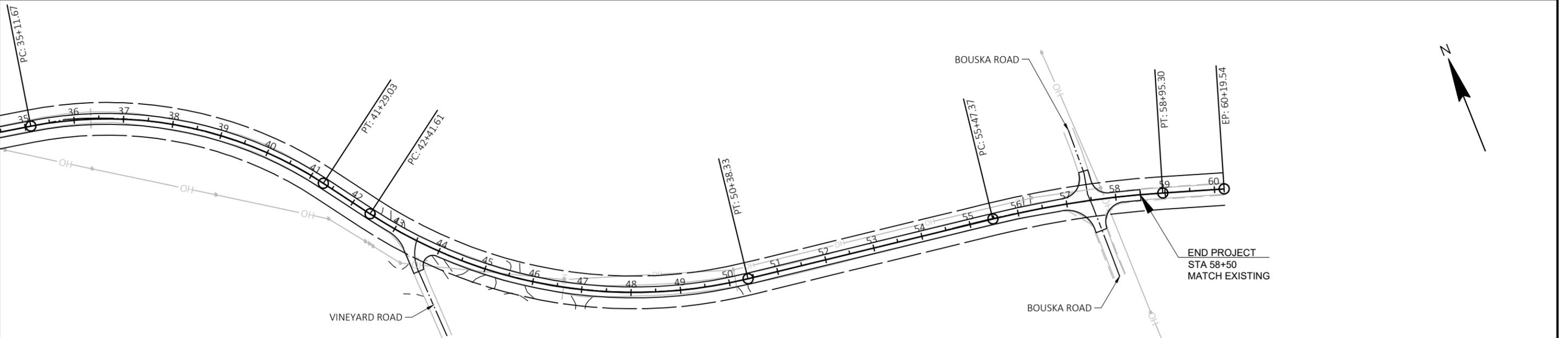
Dial 811 or (800)242-8511

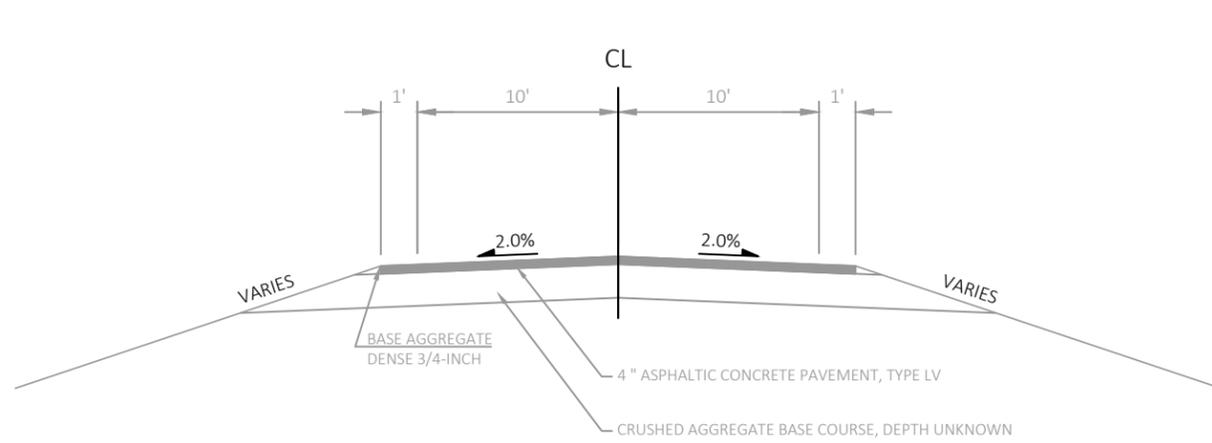
www.DiggersHotline.com

HMA PAVEMENT			
LOCATION	HMA	LOWER LAYER	UPPER LAYER
IRISH RIDGE ROAD	4LT 58-28S	1.75 "	1.75"

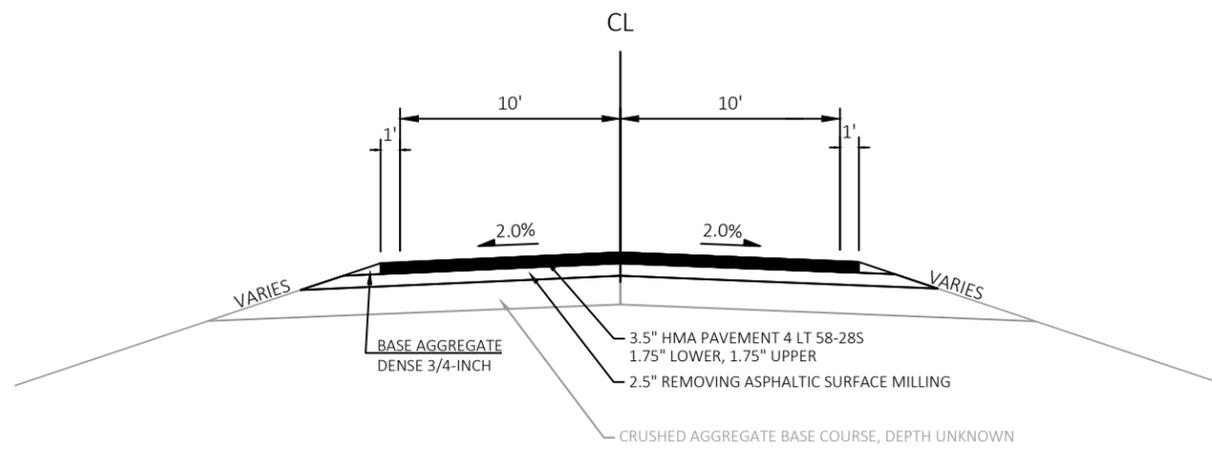


ENVIRONMENTALLY SENSITIVE AREAS SHOULD NOT BE USED FOR BORROW OR WASTE DISPOSAL, OR THE STAGING OF PERSONNEL, EQUIPMENT, OR SUPPLIES

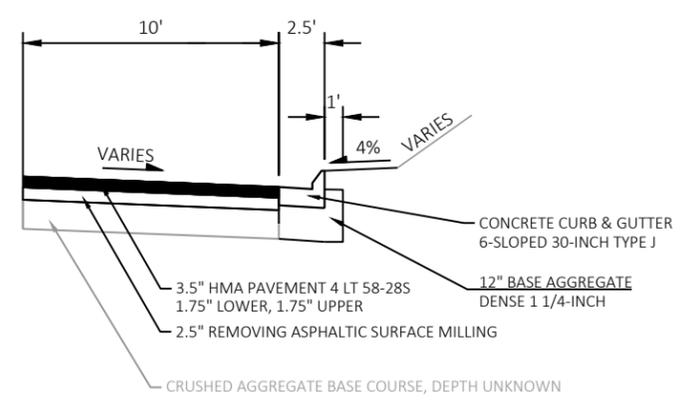




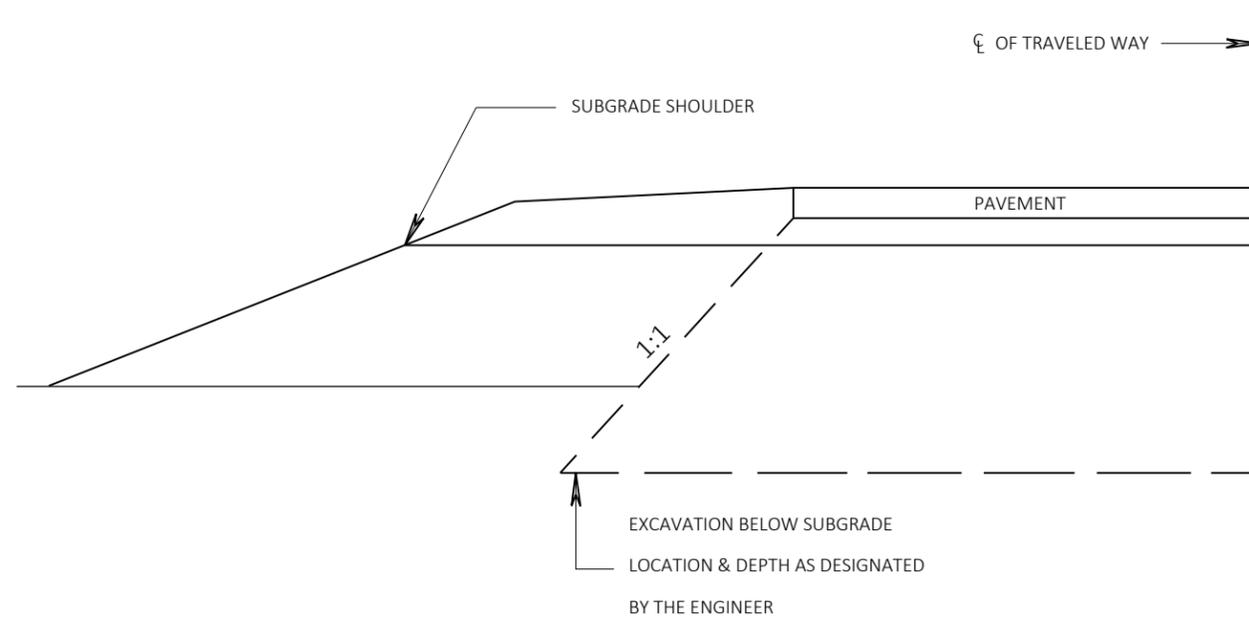
EXISTING TYPICAL SECTION
 IRISH RIDGE ROAD, VINEYARD ROAD, BOUSKA ROAD
 STA 11+50 - 58+50



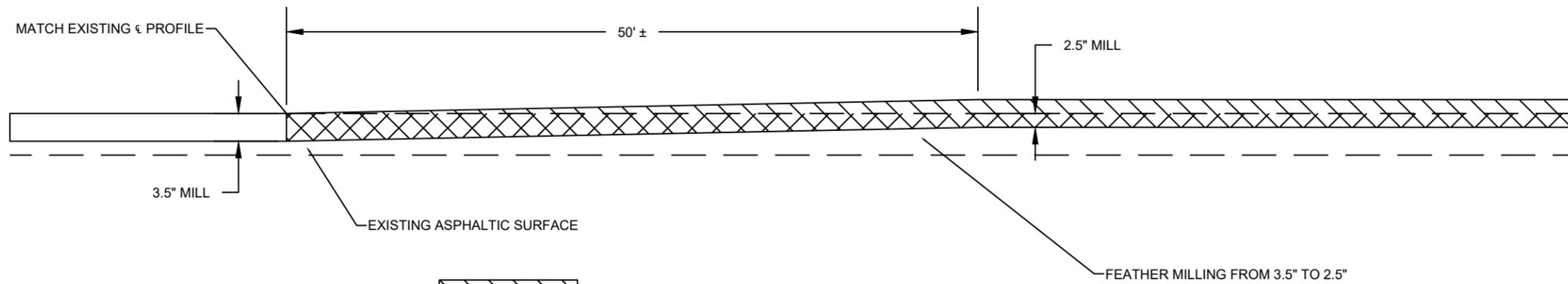
FINISHED TYPICAL SECTION
 IRISH RIDGE ROAD, VINEYARD ROAD, BOUSKA ROAD
 STA 11+50 - 58+50



FINISHED TYPICAL SECTION - CURB & GUTTER
 IRISH RIDGE ROAD
 STA 12+00 - 14+25, RT
 STA 13+75 - 16+25, LT



DETAIL FOR EXCAVATION BELOW SUBGRADE



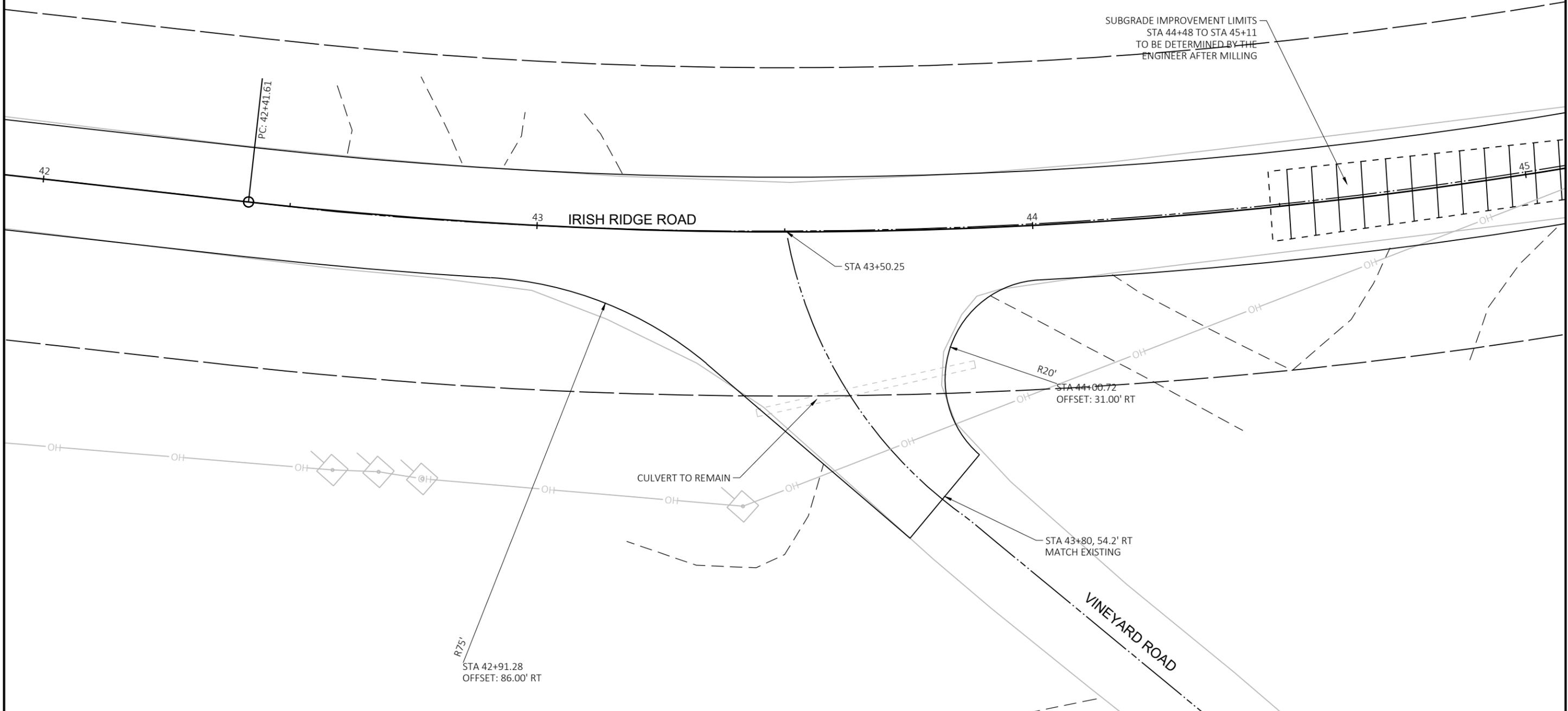
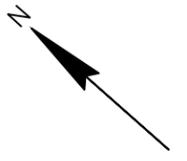
HMA PAVEMENT 4 LT 58-28 S



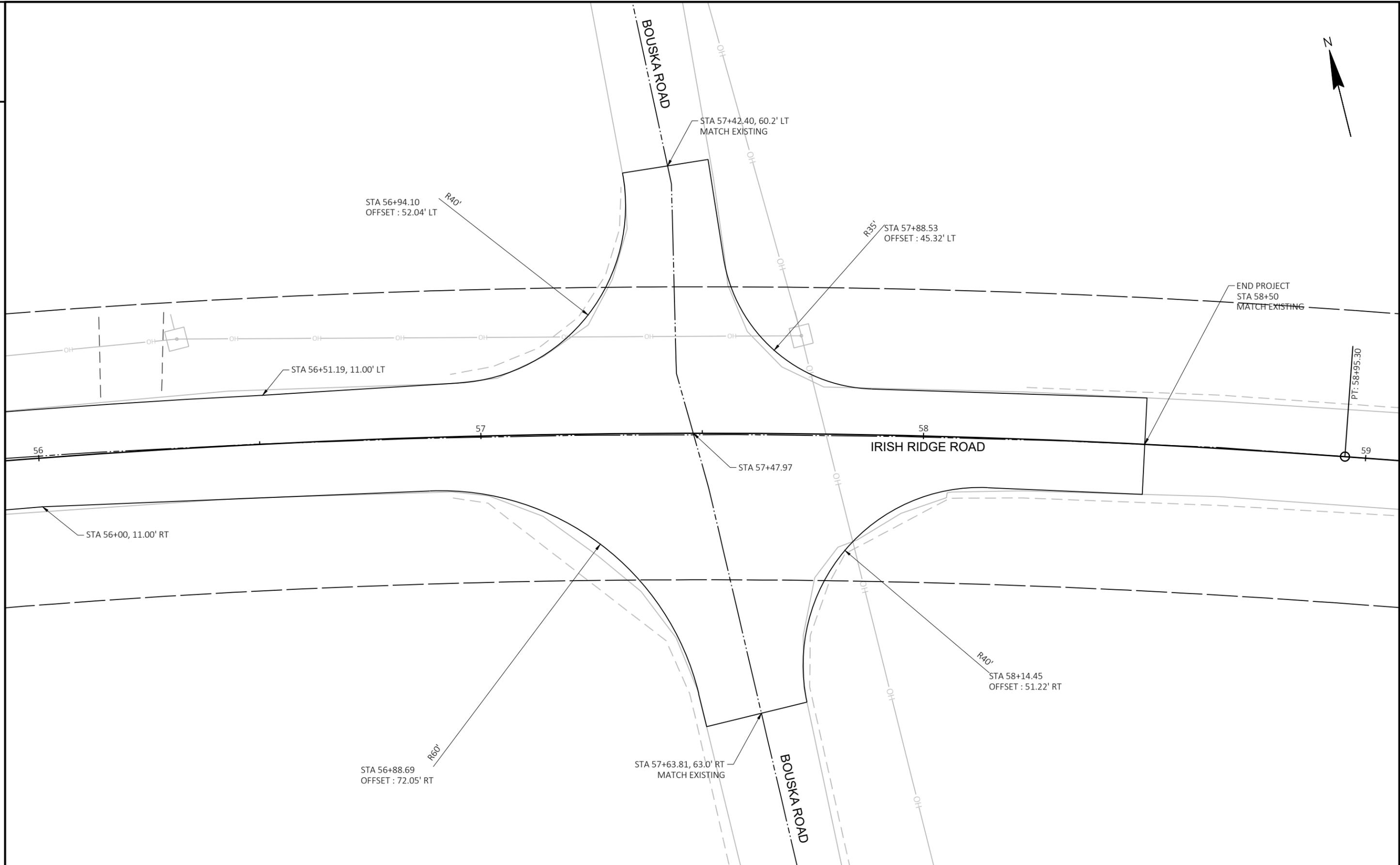
ASPHALTIC SURFACE MILLING

MILLING TRANSITION DETAIL

STA 11+50 TO STA 12+00
 VINEYARD ROAD
 BOUSKA ROAD
 STA 58+00 TO STA 58+50



PROJECT NO: 5335-00-70	HWY: IRISH RIDGE ROAD	COUNTY: CRAWFORD	INTERSECTION DETAIL: VINEYARD ROAD	SHEET	E
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PROJECT NO: 5335-00-70	HWY: IRISH RIDGE ROAD	COUNTY: CRAWFORD	INTERSECTION DETAIL: BOUSKA ROAD	SHEET	E
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Estimate Of Quantities

5335-00-70

Line	Item	Item Description	Unit	Total	Qty
0002	204.0120	Removing Asphaltic Surface Milling	SY	12,211.000	12,211.000
0004	205.0100	Excavation Common	CY	594.000	594.000
0006	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 5335-00-70	EACH	1.000	1.000
0008	213.0100	Finishing Roadway (project) 01. 5335-00-70	EACH	1.000	1.000
0010	305.0110	Base Aggregate Dense 3/4-Inch	TON	335.000	335.000
0012	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	572.000	572.000
0014	311.0110	Breaker Run	TON	397.000	397.000
0016	416.1010	Concrete Surface Drains	CY	1.000	1.000
0018	455.0605	Tack Coat	GAL	1,572.000	1,572.000
0020	460.2000	Incentive Density HMA Pavement	DOL	1,900.000	1,900.000
0022	460.5224	HMA Pavement 4 LT 58-28 S	TON	2,400.000	2,400.000
0024	465.0105	Asphaltic Surface	TON	230.000	230.000
0026	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	525.000	525.000
0028	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5335-00-70	EACH	1.000	1.000
0030	619.1000	Mobilization	EACH	1.000	1.000
0032	624.0100	Water	MGAL	28.000	28.000
0034	625.0105	Topsoil	CY	146.000	146.000
0036	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0038	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0040	628.2006	Erosion Mat Urban Class I Type A	SY	583.000	583.000
0042	629.0210	Fertilizer Type B	CWT	1.000	1.000
0044	630.0140	Seeding Mixture No. 40	LB	30.000	30.000
0046	630.0200	Seeding Temporary	LB	30.000	30.000
0048	630.0500	Seed Water	MGAL	4.000	4.000
0050	642.5001	Field Office Type B	EACH	1.000	1.000
0052	643.0300	Traffic Control Drums	DAY	420.000	420.000
0054	643.0420	Traffic Control Barricades Type III	DAY	280.000	280.000
0056	643.0705	Traffic Control Warning Lights Type A	DAY	560.000	560.000
0058	643.0900	Traffic Control Signs	DAY	812.000	812.000
0060	643.5000	Traffic Control	EACH	1.000	1.000
0062	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	525.000	525.000
0064	650.8000	Construction Staking Resurfacing Reference	LF	4,700.000	4,700.000
0066	650.9911	Construction Staking Supplemental Control (project) 01. 5335-00-70	EACH	1.000	1.000
0068	690.0150	Sawing Asphalt	LF	635.000	635.000
0070	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0072	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	250.000	250.000

MISC ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	642.5001 FIELD OFFICE TYPE B EACH	213.0100.01 FINISHING ROADWAY (5335-00-70) EACH	618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (5335-00-70) EACH	619.1000 MOBILIZATION EACH	REMARKS
0010		-			1	1	-	1	
				TOTAL 0010	1	1	0	1	
0020		-			-	-	1	-	
				TOTAL 0020	0	0	1	0	
				PROJECT TOTAL	1	1	1	1	

EXCAVATION BASE AGGREGATE

CATEGORY	STATION	TO	STATION	LOCATION	205.0100 EXCAVATION COMMON CY	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4- INCH TON	311.0110 BREAKER RUN TON	624.0100 WATER MGAL	* 690.0150 SAWING ASPHALT LF	* QUANTITY SHOWN ELSE WHERE REMARKS
0010	11+50	-	58+50	LT/RT	-	335	-	-	10	-	SHOULDER
0010	11+50	-	14+25	RT	81	-	92	-	1	275	CURB
0010	13+75	-	16+25	LT	75	-	83	-	1	250	CURB
0010	11+57	-	12+45	RT	71	-	65	65	2	-	EBS
0010	14+83	-	15+35	RT	46	-	41	41	2	-	EBS
0010	15+98	-	16+26	CL	47	-	43	43	2	-	EBS
0010	28+85	-	29+45	CL	46	-	41	41	2	-	EBS
0010	33+46	-	34+36	CL	77	-	70	70	2	-	EBS
0010	39+75	-	40+24	CL	43	-	39	39	2	-	EBS
0010	44+48	-	45+11	CL	69	-	62	62	2	-	EBS
0010	46+61	-	47+47	CL	39	-	36	36	2	-	EBS
				TOTAL 0010	594	335	572	397	28	525	

CONCRETE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	416.1010 CONCRETE SURFACE DRAINS CY	601.0415 CONCRETE CURB & GUTTER 6- INCH SLOPED 30- INCH TYPE J LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	REMARKS
0010	11+50	-	14+25	RT	0.5	275	275	
0010	13+75	-	16+25	LT	0.5	250	250	
TOTAL 0010					1.0	525	525	

ASPHALT ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	211.0101.01 PREPARE FOUNDATION FOR ASPHALTIC PAVING (5335-00-70) EACH	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	690.0150 SAWING ASPHALT LF	* QUANTITY SHOWN ELSE WHERE	REMARKS
0010	11+50	-	58+50	CL	11,488	1	1,380	2,255	-	44		
0010	43+50	-	43+80	RT	256	-	31	51	-	22		VINEYARD ROAD
0010	57+50	-	57+64	RT	267	-	32	53	-	22		BOUSKA ROAD SOUTH
0010	57+42	-	57+50	LT	200	-	24	41	-	22		BOUSKA ROAD NORTH
0010	11+50	-	58+50	CL	-	-	-	-	70	-		EBS LOCATIONS
0010	18+13	-	26+20	RT LANE	-	-	55	-	90	-		WEDGING
0010	35+04	-	38+34	RT LANE	-	-	50	-	70	-		WEDGING
TOTAL 0010					12,211	1	1,572	2,400	230	110		

EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0105 TOPSOIL CY	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	REMARKS
0010	11+50	-	14+25	RT	81	1	1	305	0.5	15	15	2	
0010	13+75	-	16+25	LT	65	-	-	278	0.5	15	15	2	
TOTAL 0010					146	1	1	583	1.0	30	30	4	

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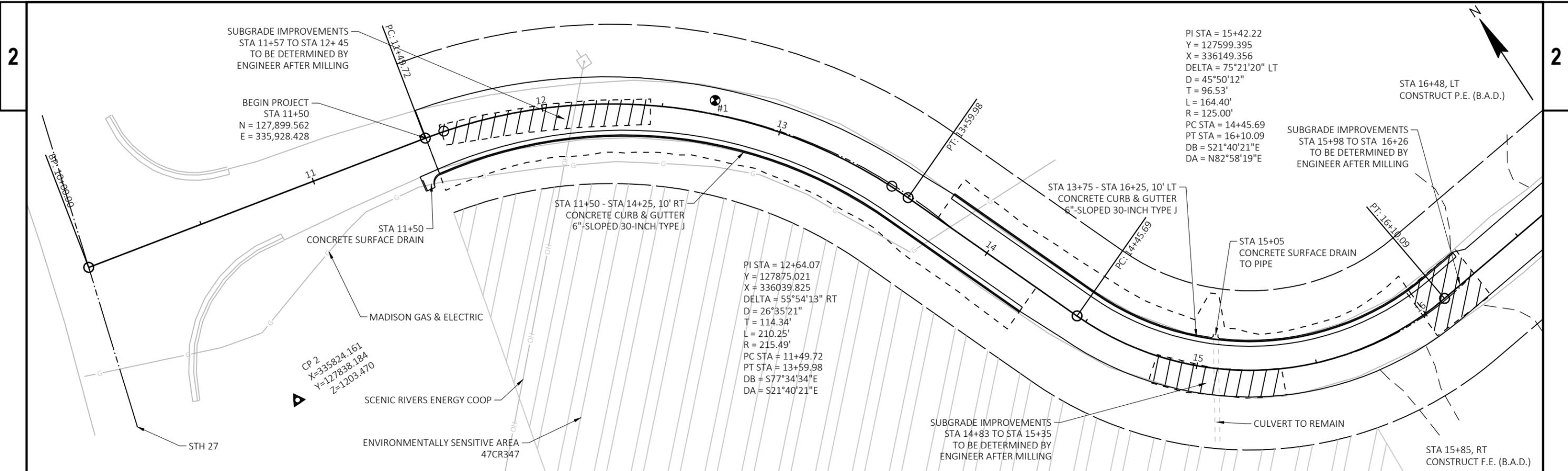
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TRAFFIC CONTROL ITEMS

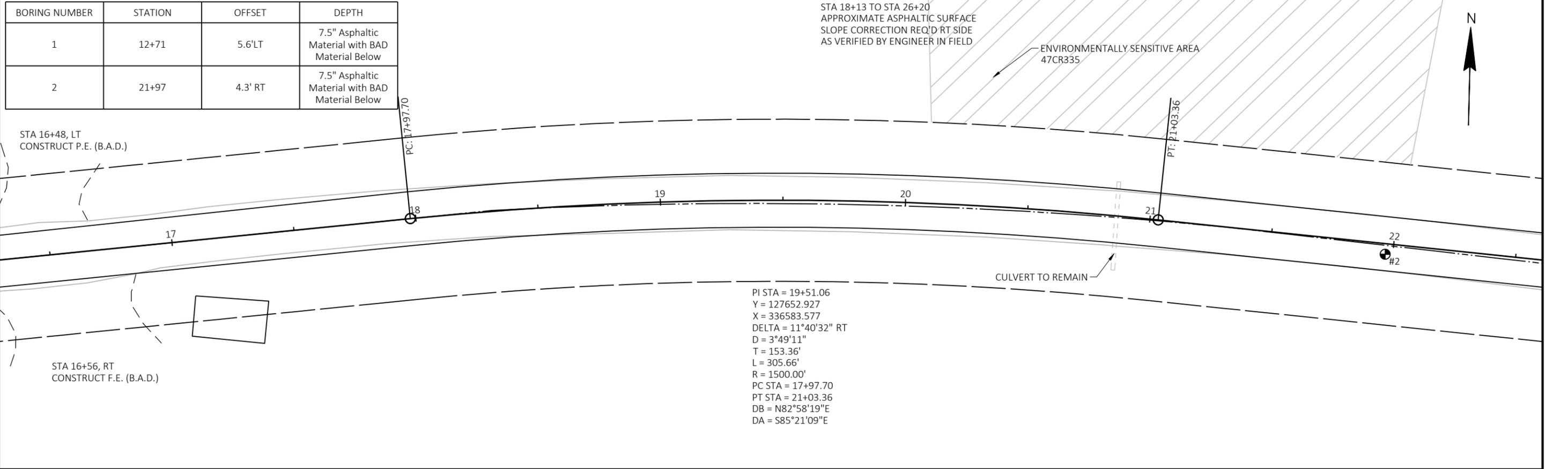
CATEGORY	STATION	TO	STATION	LOCATION	NUMBER	DAYS	643.0300		643.0420		643.0705		643.0900		643.5000		REMARKS	
							TRAFFIC CONTROL DRUMS DAY	NUMBER	TRAFFIC CONTROL BARRICADES TYPE III DAY	NUMBER	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	NUMBER	TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL EACH				
0010	11+50	-	58+50	CL	30	14	420	10	28	280	20	28	560	29	28	812	1	
				TOTAL 0010			420			280			560			812	1	

CONSTRUCTION STAKING ITEMS

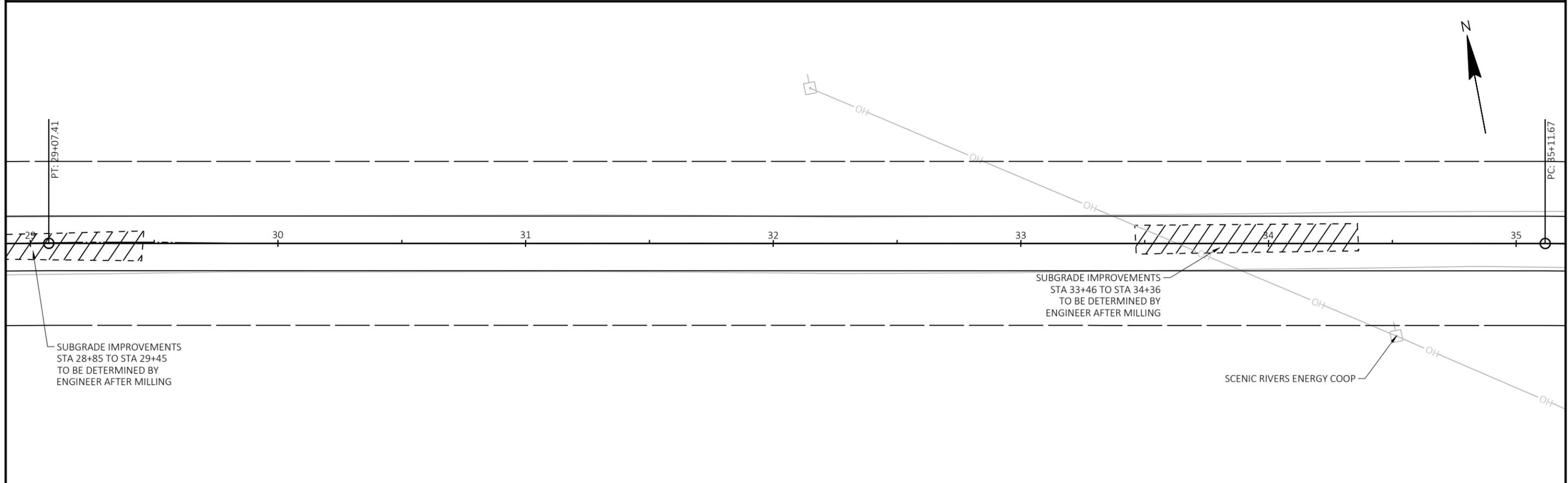
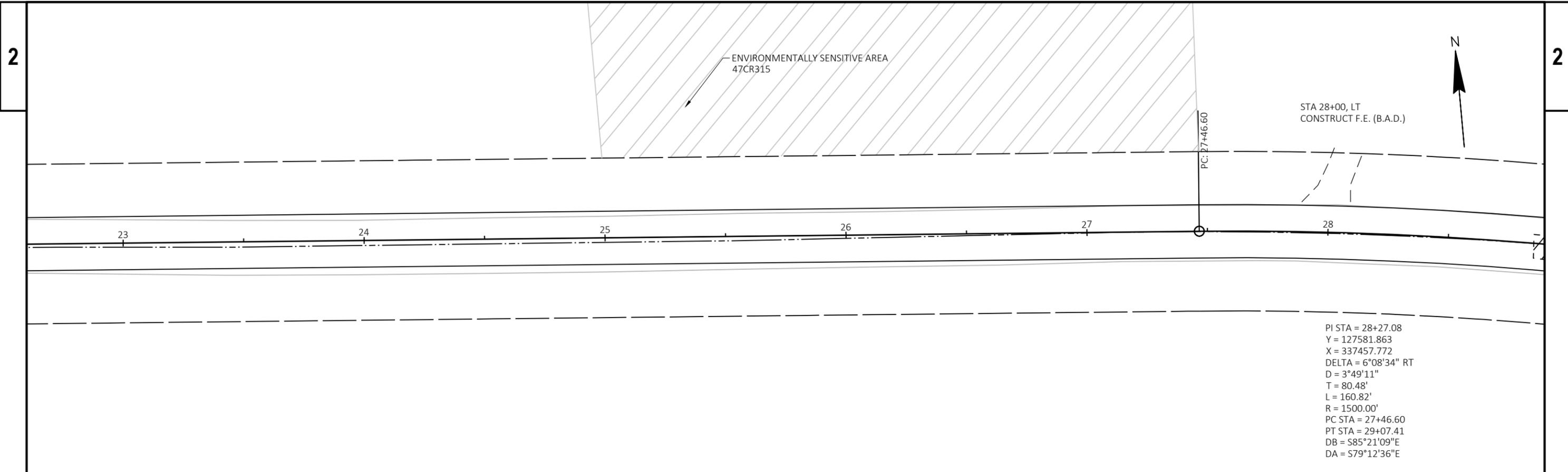
CATEGORY	STATION	TO	STATION	LOCATION	650.8000		650.9911.01		REMARKS
					CONSTRUCTION STAKING RESURFACING REFERENCE LF	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (5335-00-70) EACH			
0010	11+50	-	58+50	CL	4,700		1		
0010		-							
				TOTAL 0010	4,700		1		



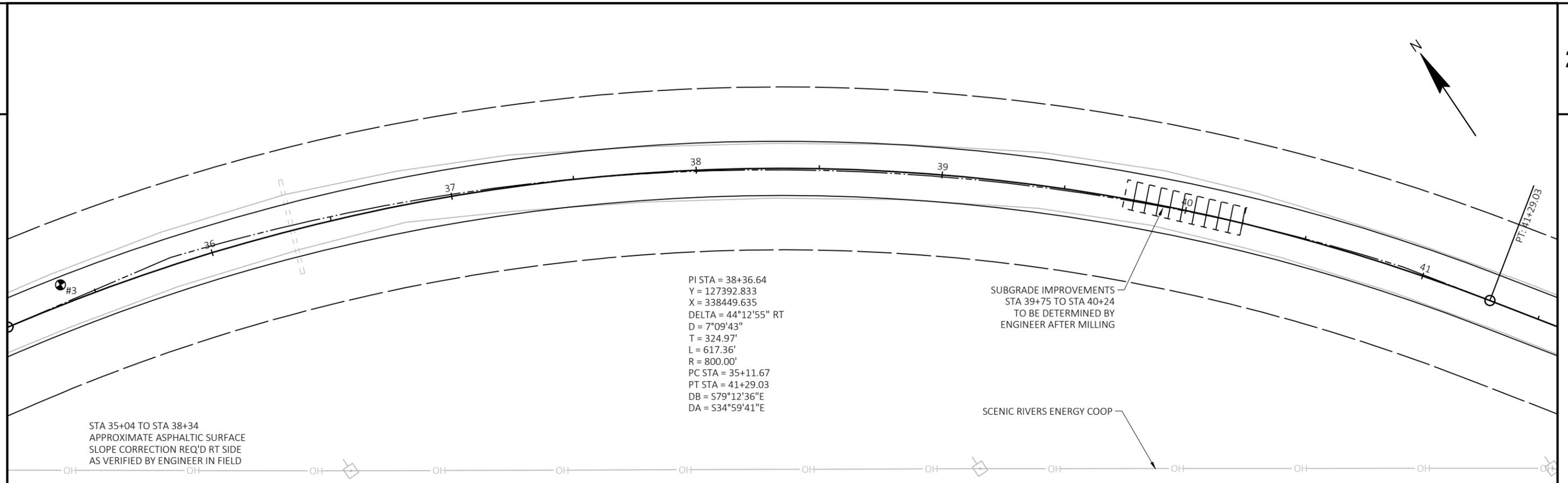
BORING NUMBER	STATION	OFFSET	DEPTH
1	12+71	5.6' LT	7.5" Asphaltic Material with BAD Material Below
2	21+97	4.3' RT	7.5" Asphaltic Material with BAD Material Below



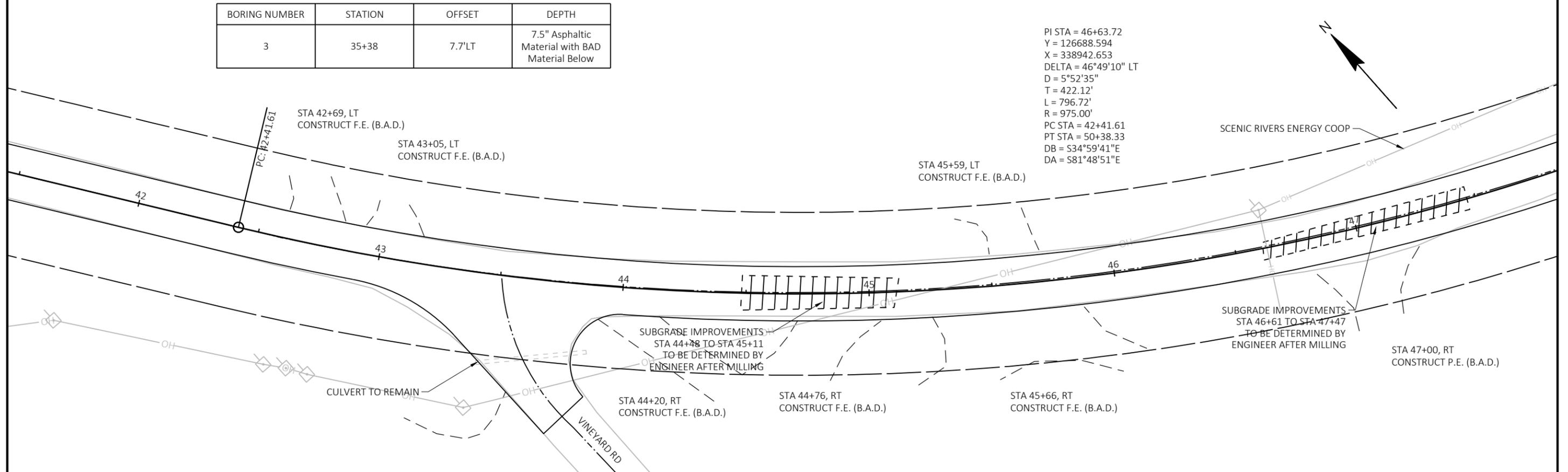
PROJECT NO: 5335-00-70 HWY: IRISH RIDGE ROAD COUNTY: CRAWFORD PLAN SHEETS SHEET E

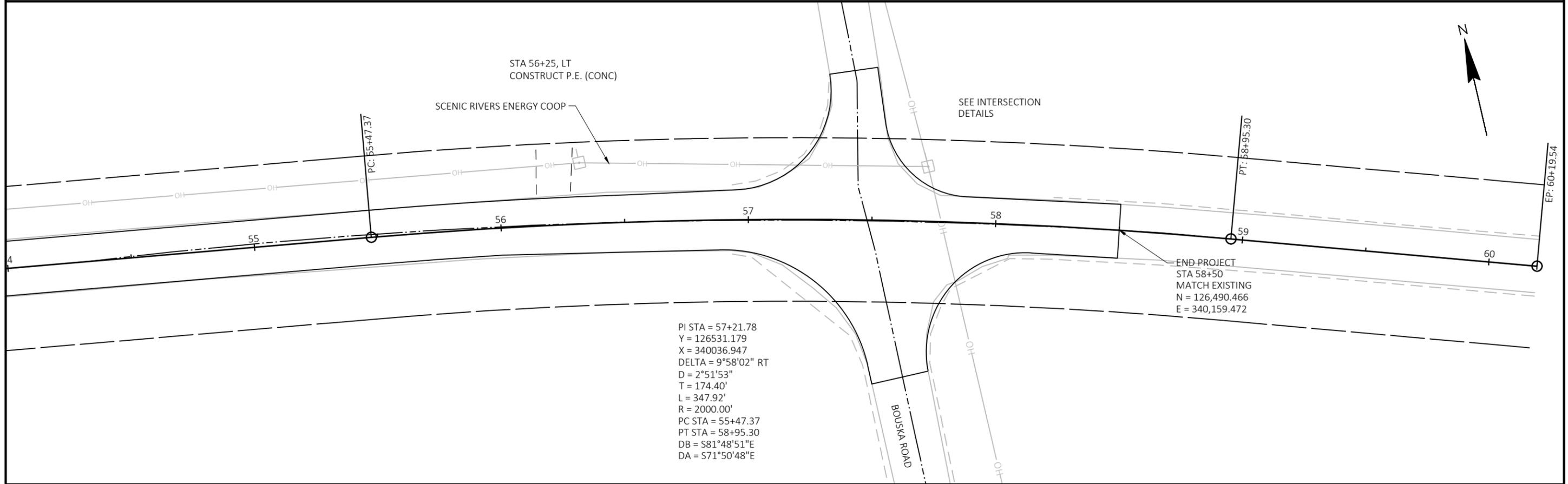
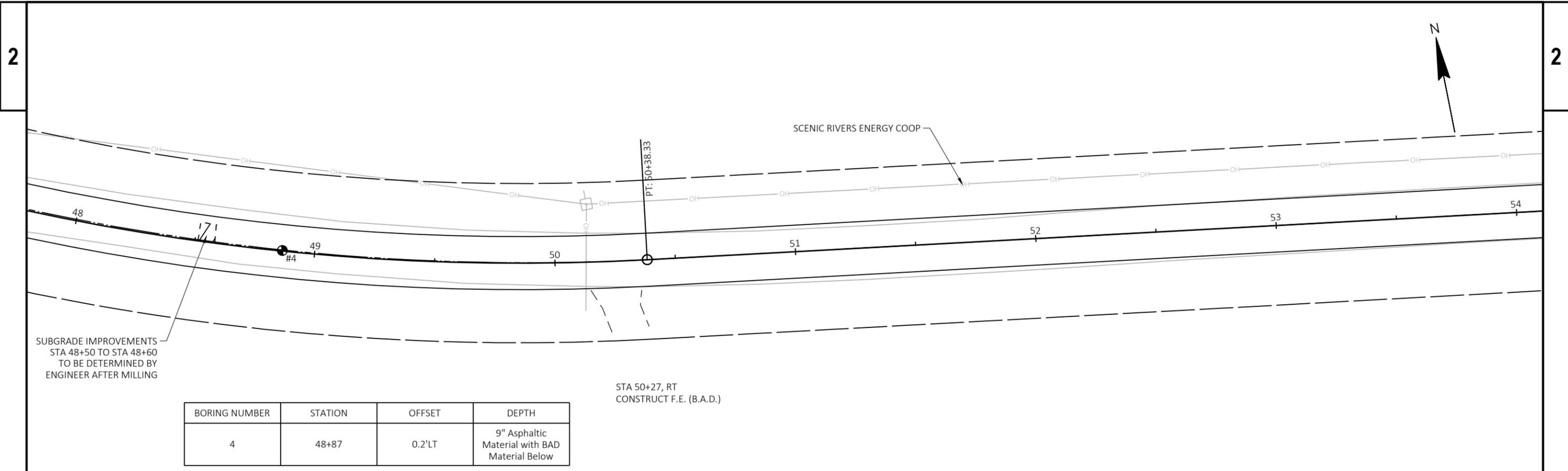


PROJECT NO: 5335-00-70	HWY: IRISH RIDGE ROAD	COUNTY: CRAWFORD	PLAN SHEETS	SHEET	E
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BORING NUMBER	STATION	OFFSET	DEPTH
3	35+38	7.7'LT	7.5" Asphaltic Material with BAD Material Below

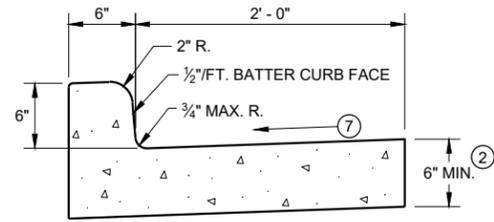




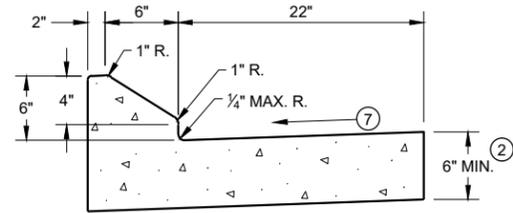
PROJECT NO: 5335-00-70 HWY: IRISH RIDGE ROAD COUNTY: CRAWFORD PLAN SHEETS SHEET E

Standard Detail Drawing List

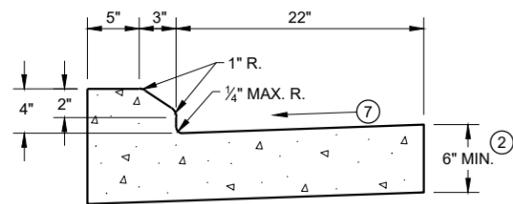
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES



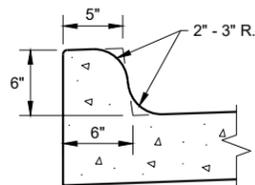
TYPES A^① & D



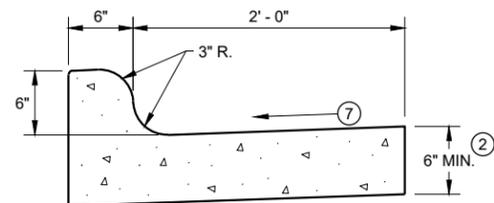
6" SLOPED CURB TYPES G^① & J



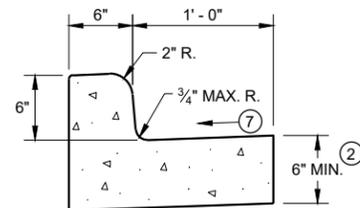
4" SLOPED CURB TYPES G^① & J



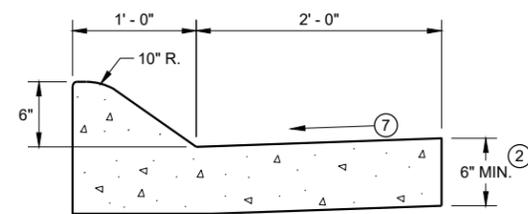
TYPES K^① & L
(OPTIONAL CURB SHAPE)



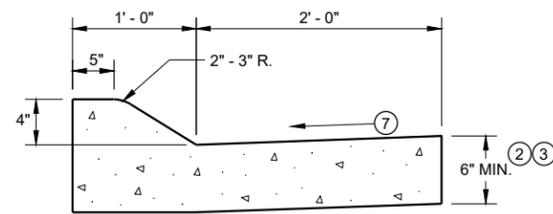
TYPES K^① & L
CONCRETE CURB AND GUTTER 30"



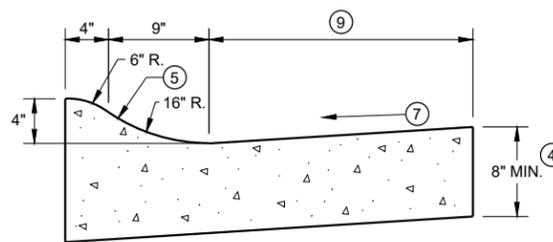
TYPES A^① & D
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A^① & D

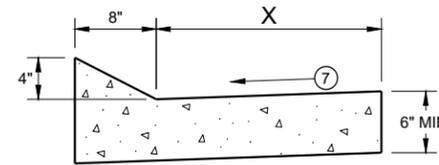


4" SLOPED CURB TYPES A^① & D
CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R^① & T

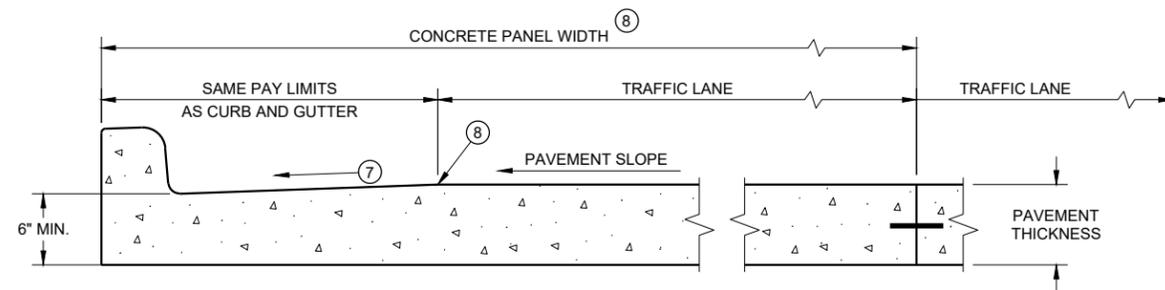
TBT & TBTT	X
30"	22"
36"	28"



TYPES TBT & TBTT^①
CONCRETE CURB AND GUTTER

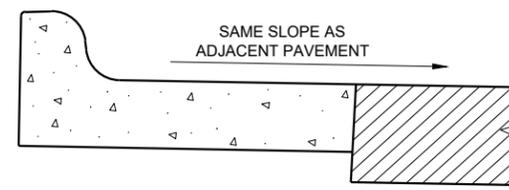
PAVEMENT THICKNESS
AND MAXIMUM CONCRETE
PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



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

GENERAL NOTES

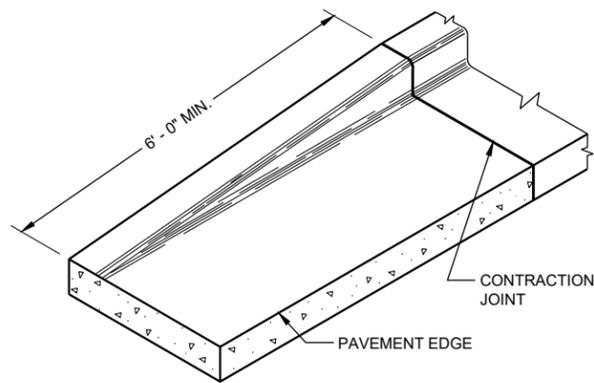
DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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

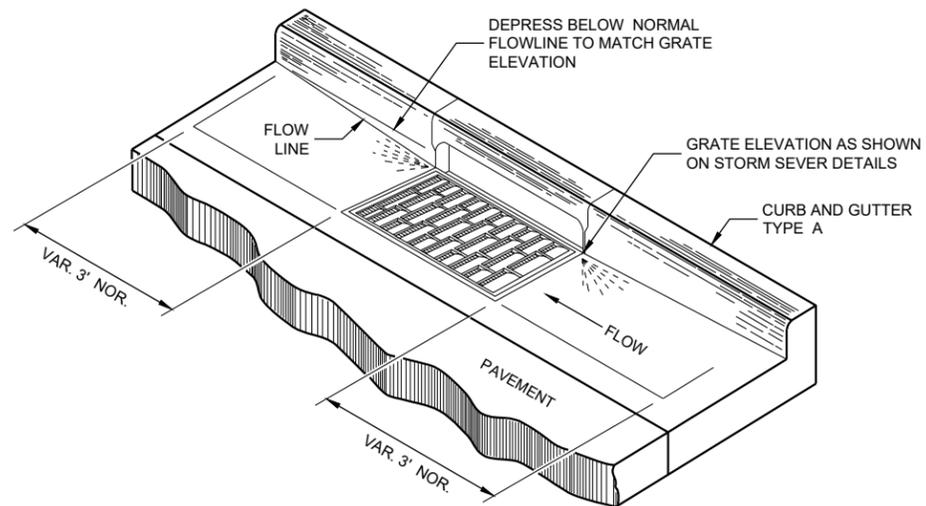
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑤ UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
- ⑨ CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

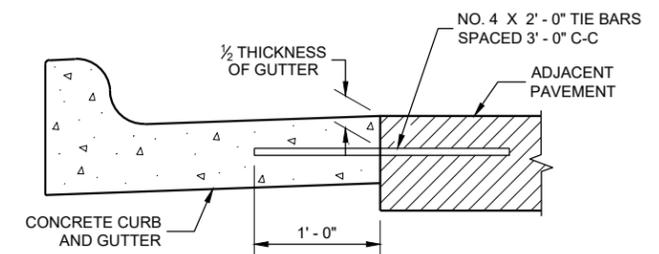
GENERAL NOTES

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

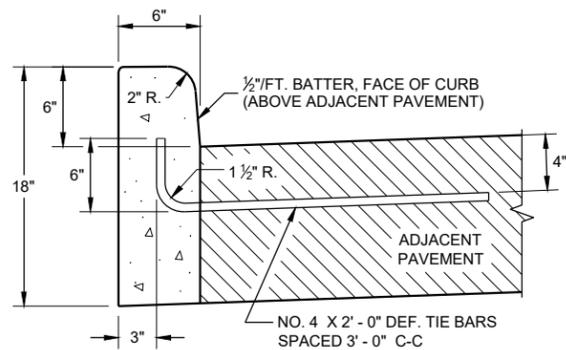
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

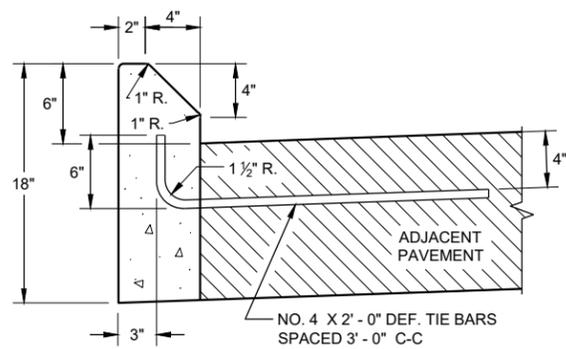
- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑨ REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION ①

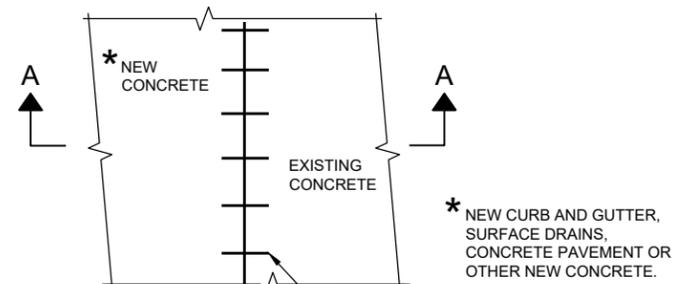


TYPES A ① & D

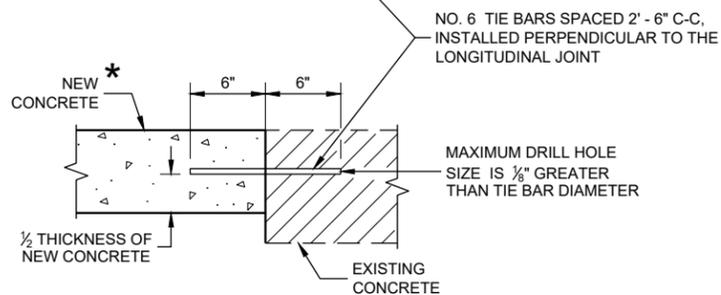


TYPES G ① & J

CONCRETE CURB

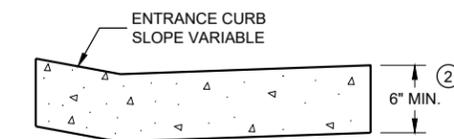


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB ⑨
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

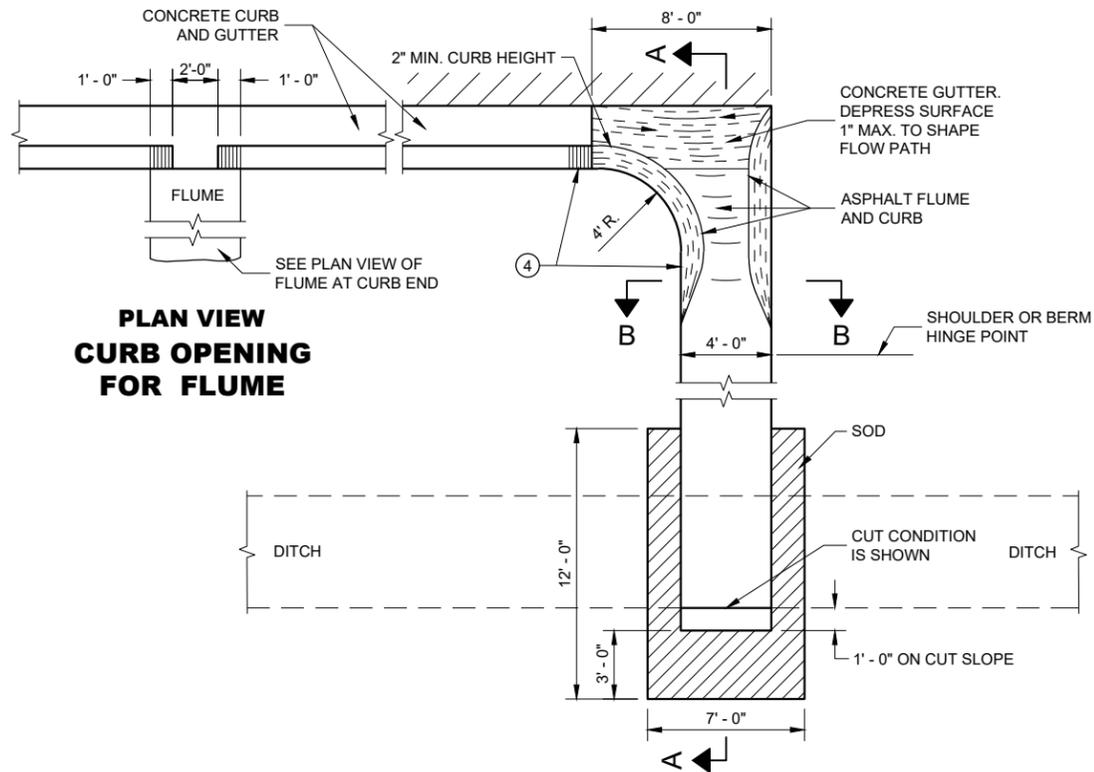
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER

FHWA

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

ASPHALTIC FLUME



**PLAN VIEW
CURB OPENING
FOR FLUME**

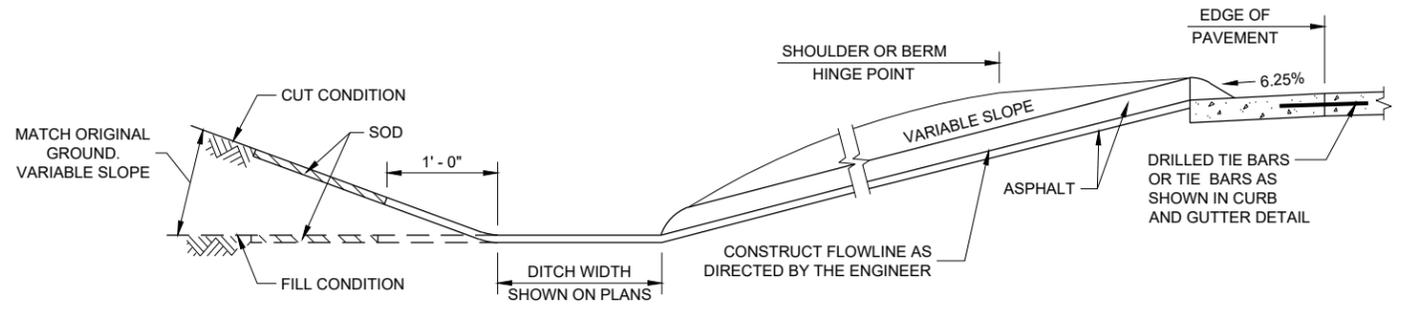
**PLAN VIEW
FLUME AT CURB END**

GENERAL NOTES

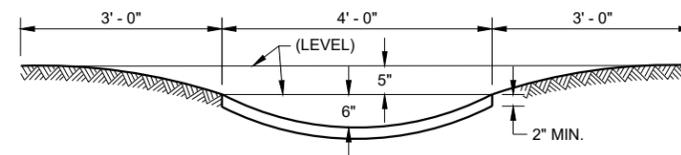
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

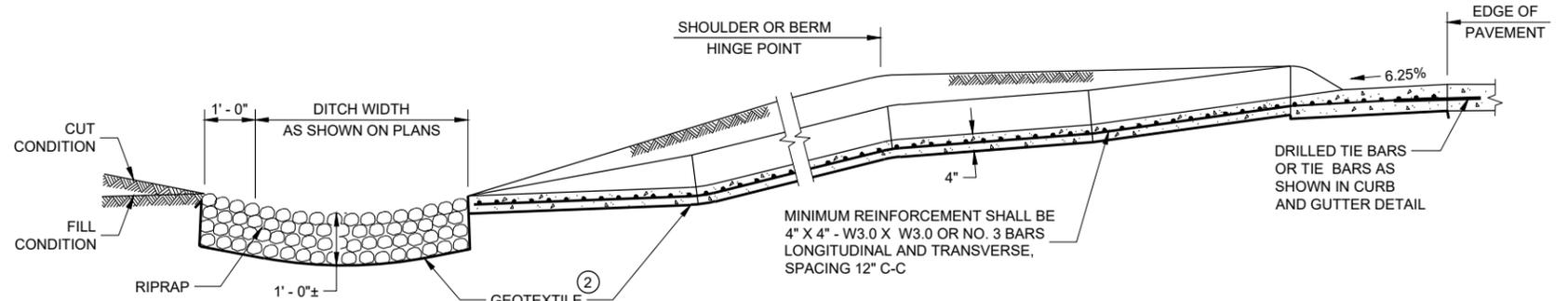
- ① JOINTS SHALL BE 1/8" TO 1/4" WIDE BY 1 1/2" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- ② GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
- ③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
- 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.



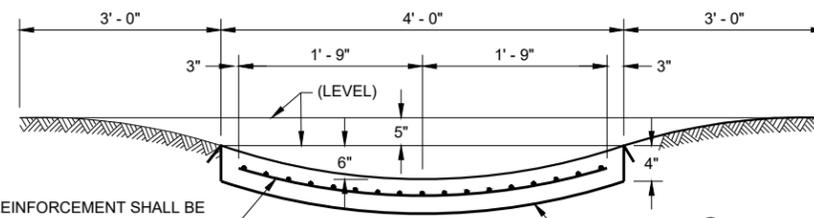
SECTION A - A



SECTION B - B

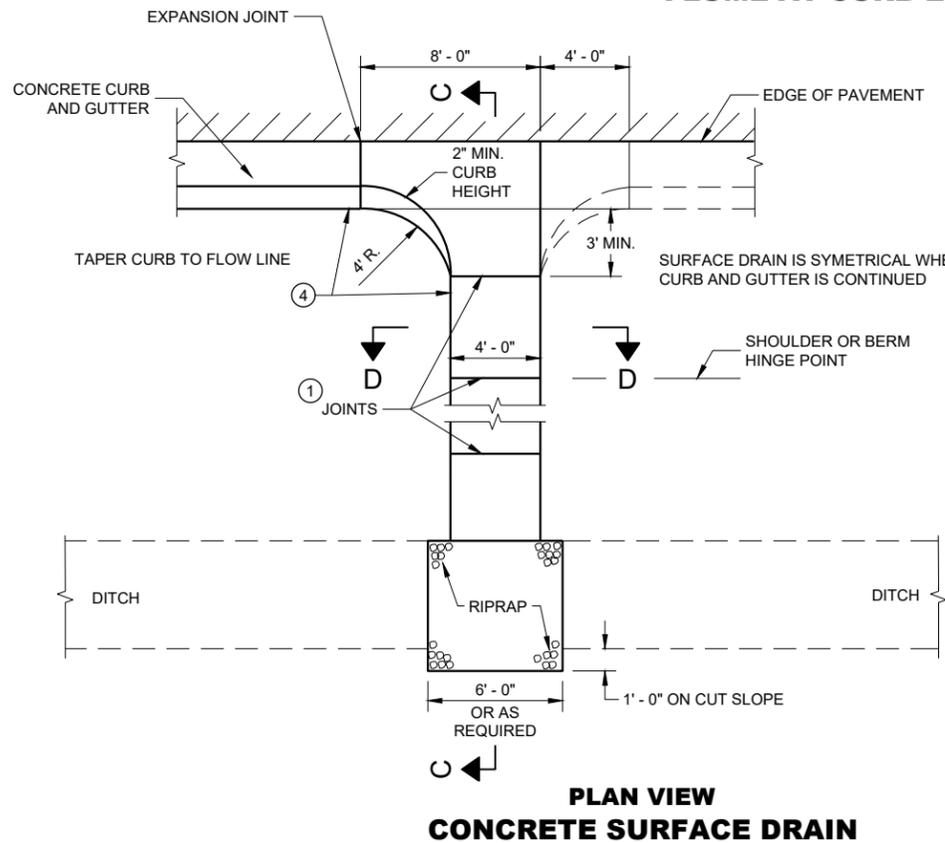


SECTION C - C



SECTION D - D

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



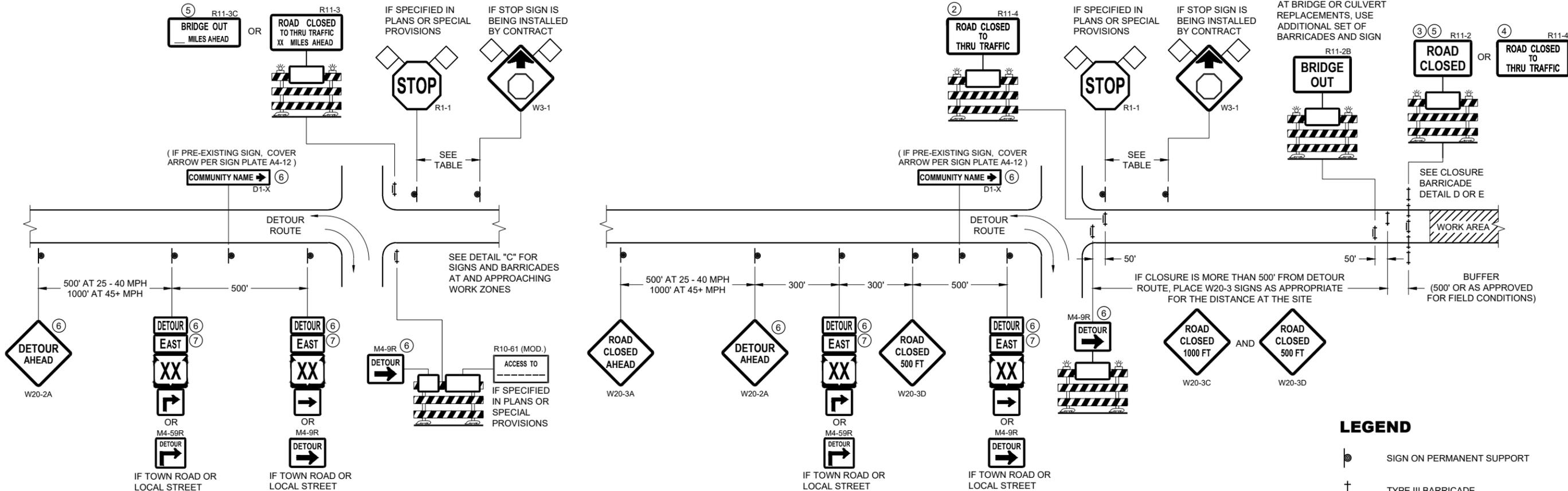
**PLAN VIEW
CONCRETE SURFACE DRAIN**

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER

FHWA



**DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

**DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR**

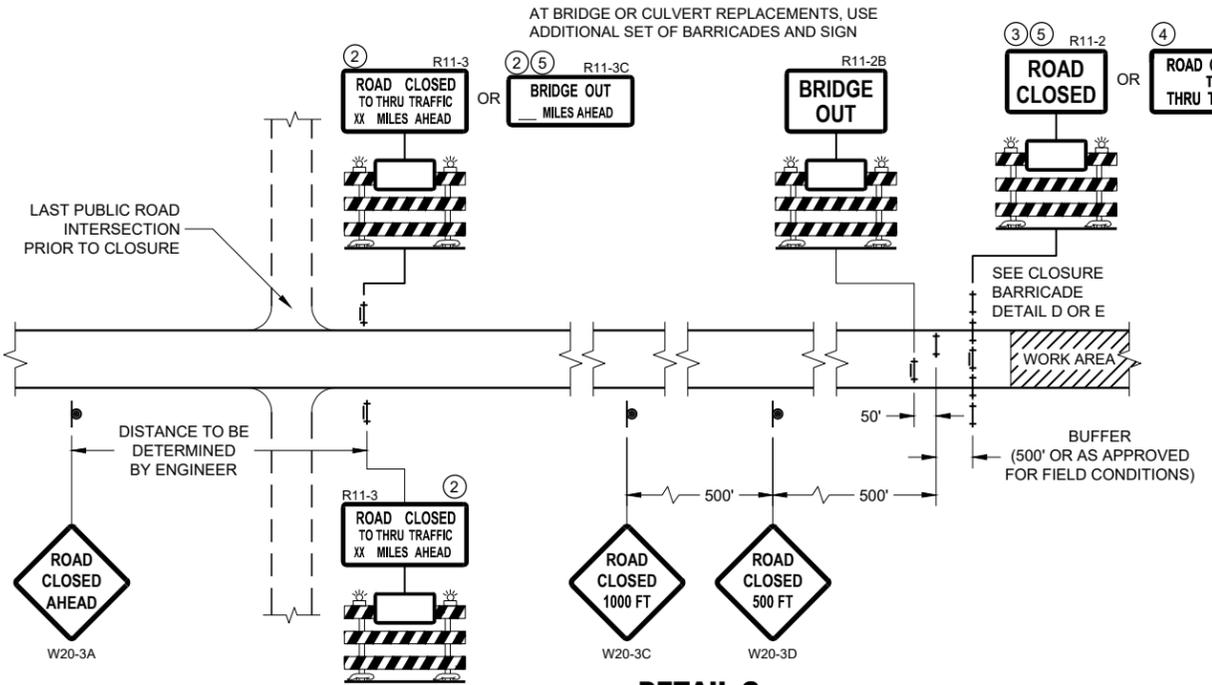
WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

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

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

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1



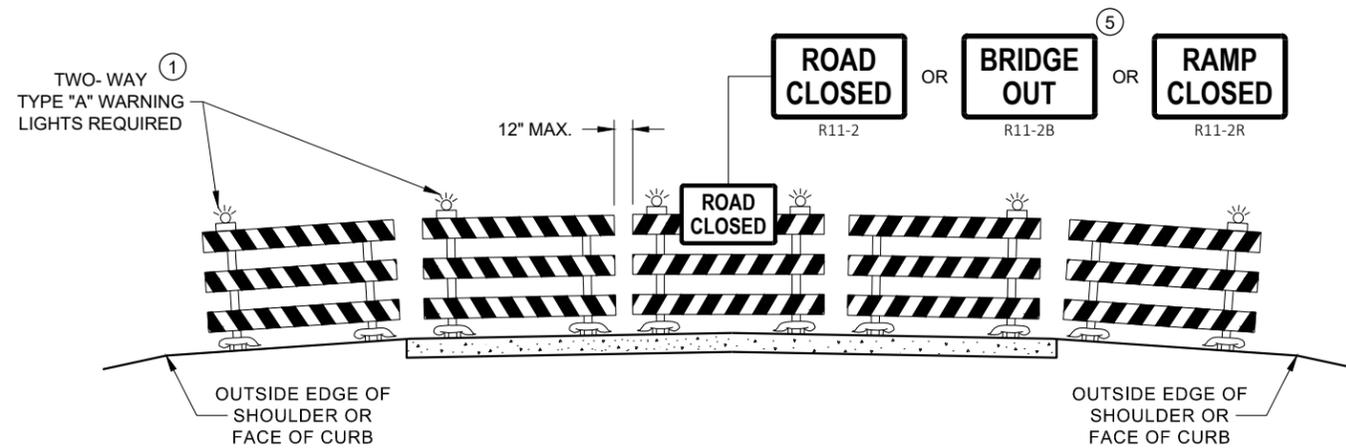
**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

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

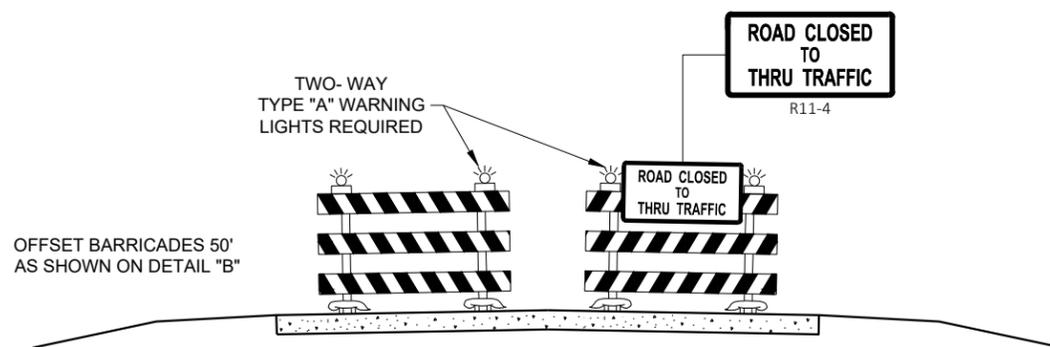
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE 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.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"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:

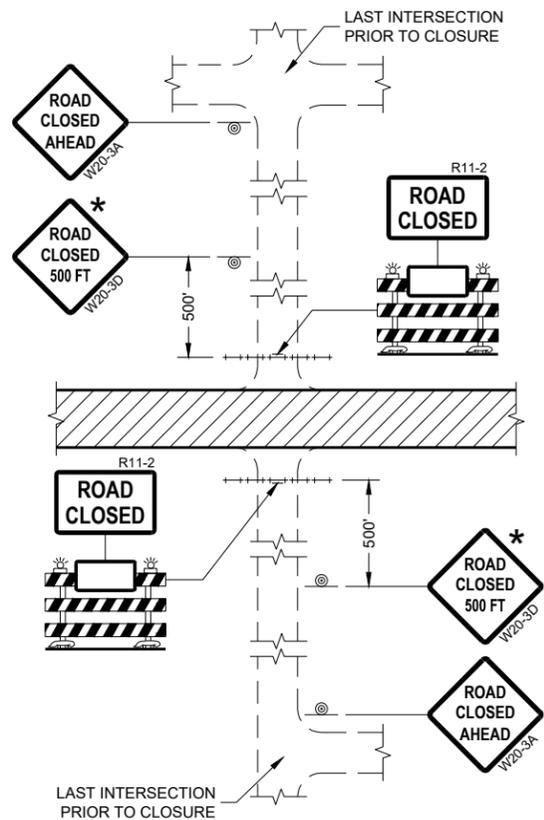
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" 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"

- 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.

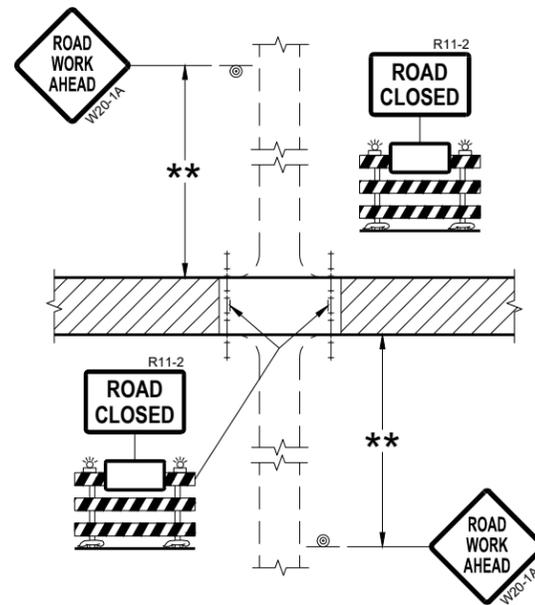
**BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

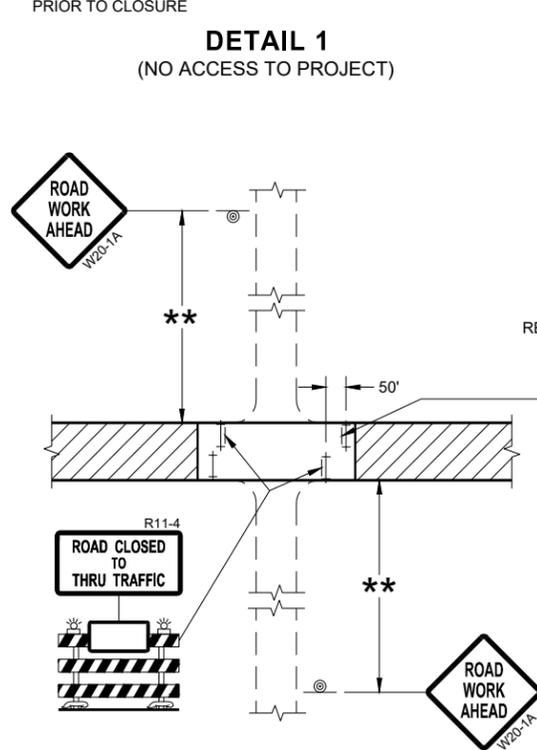
APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA



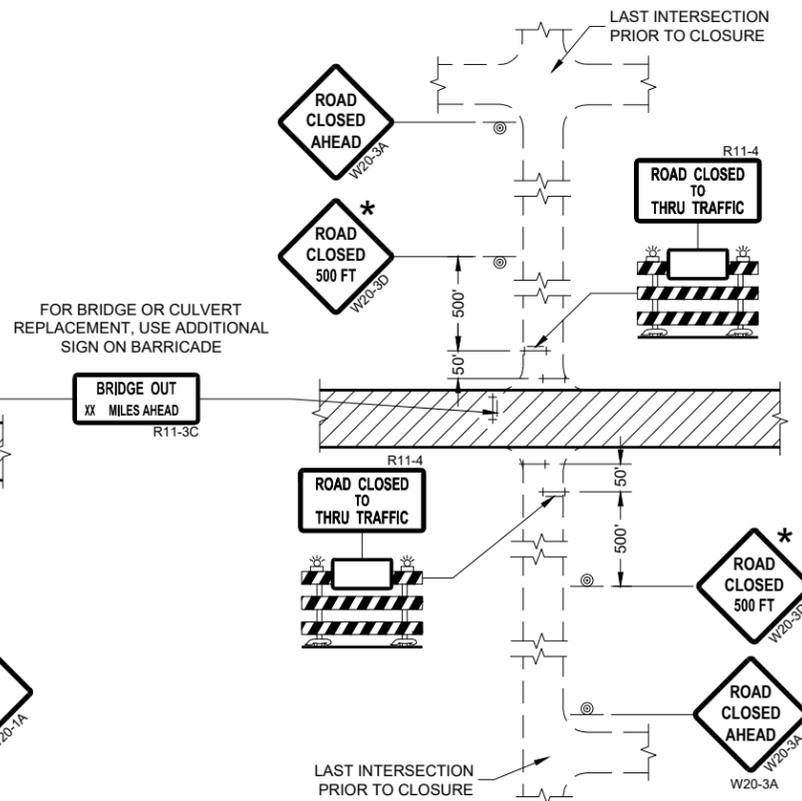
DETAIL 1
(NO ACCESS TO PROJECT)



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.

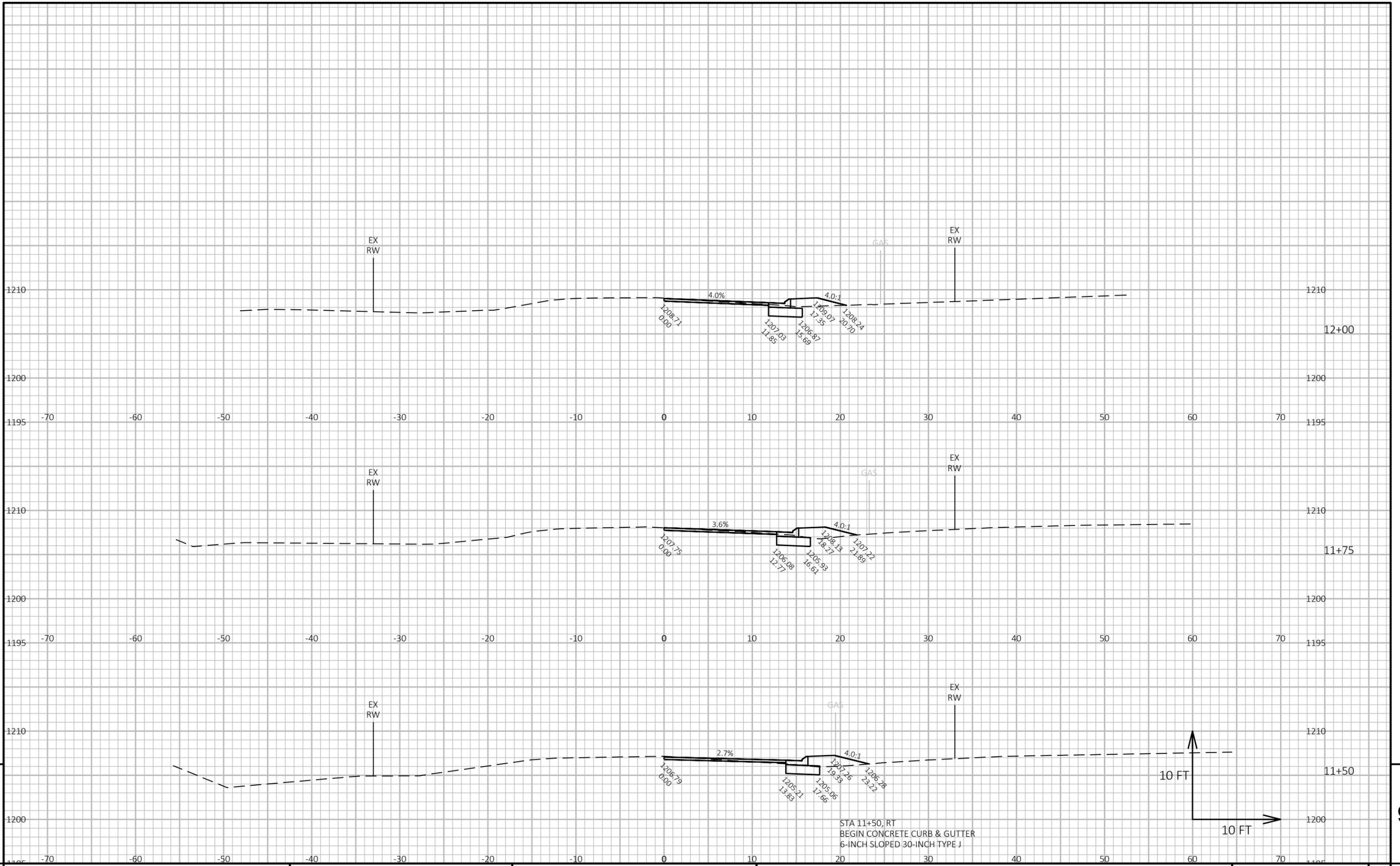
LEGEND

- 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 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER



PROJECT NO: 5335-00-70

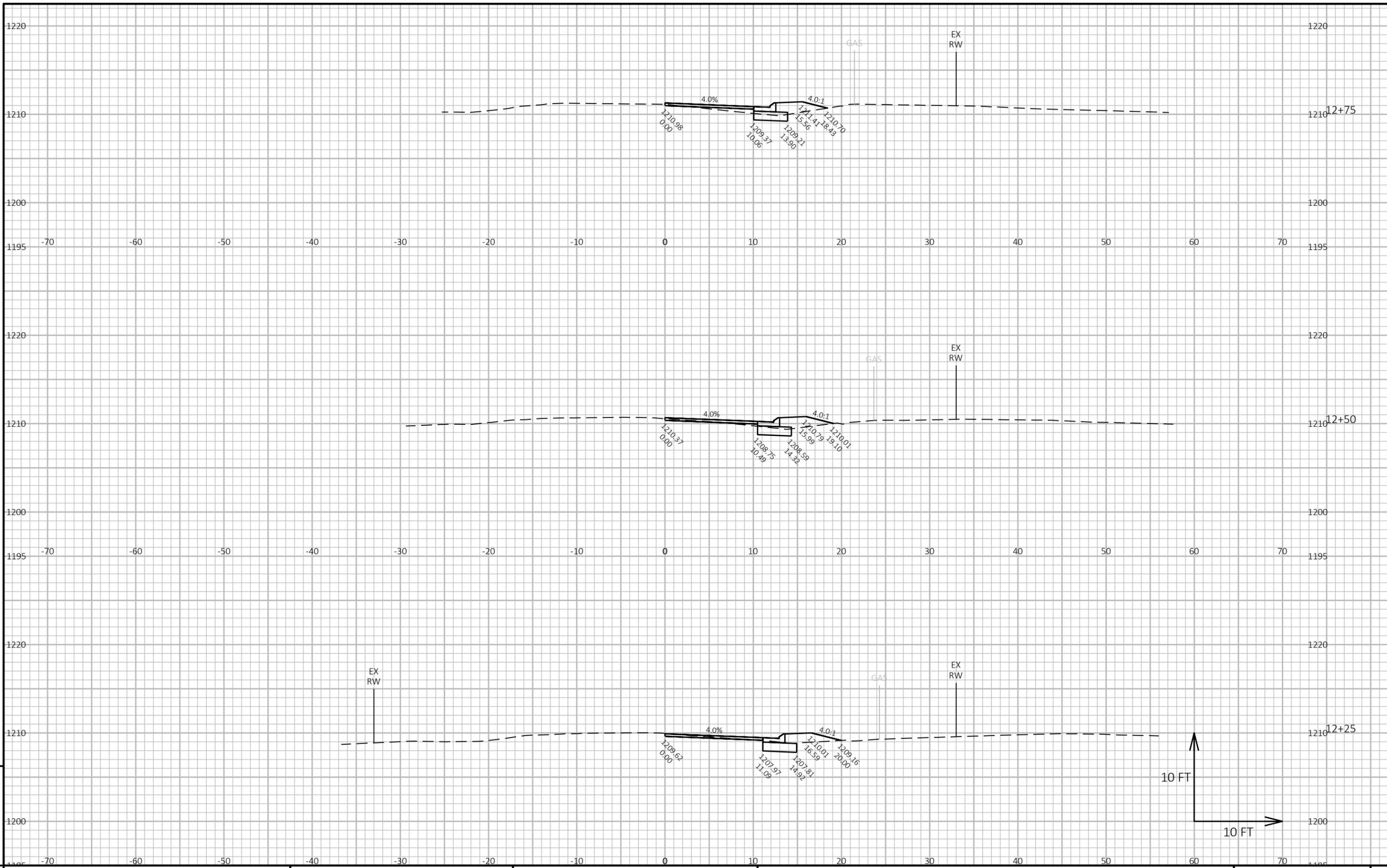
HWY: IRISH RIDGE ROAD

COUNTY: CRAWFORD

CROSS SECTIONS: IRISH RIDGE ROAD

SHEET

E



PROJECT NO: 5335-00-70

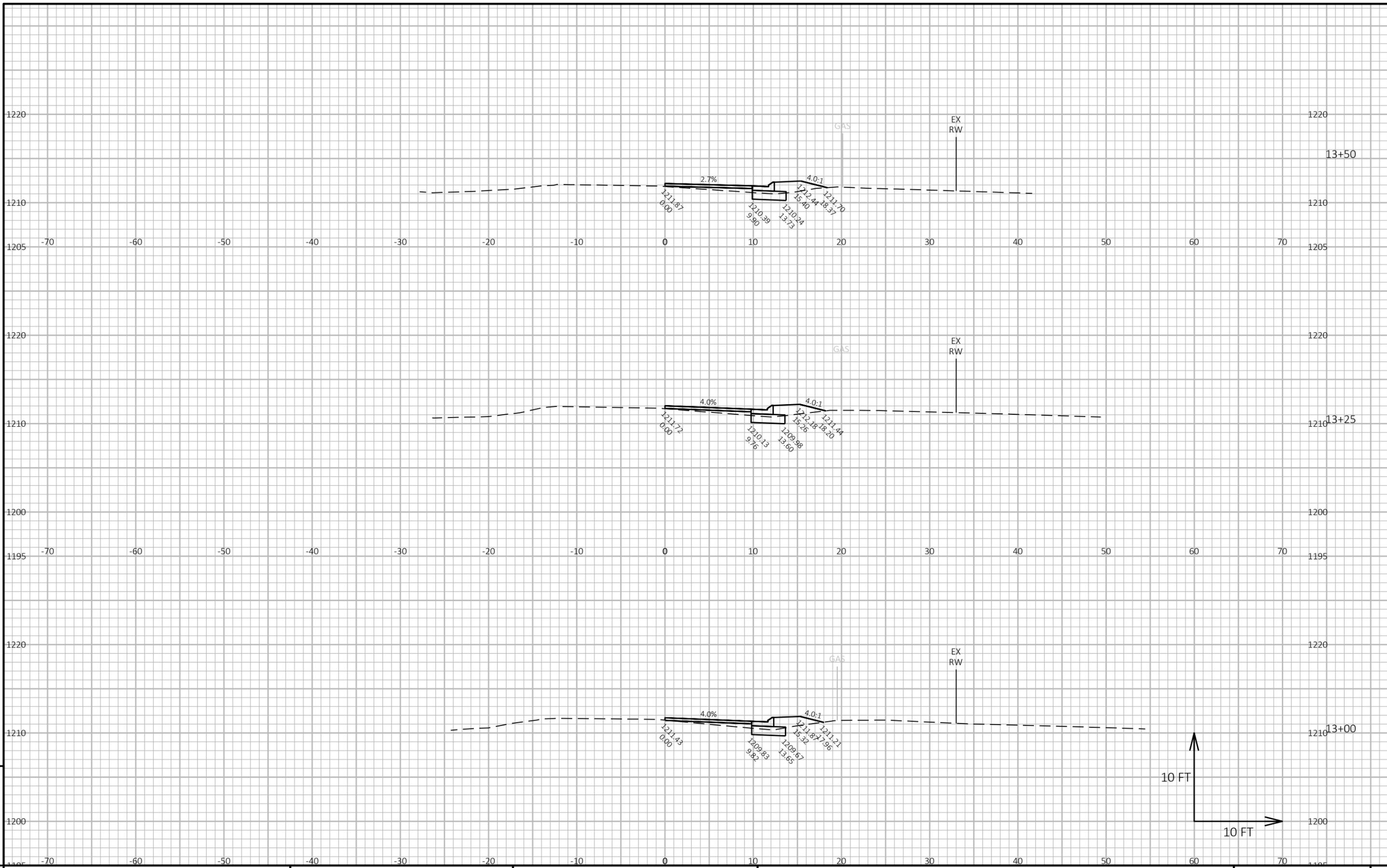
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COUNTY: CRAWFORD

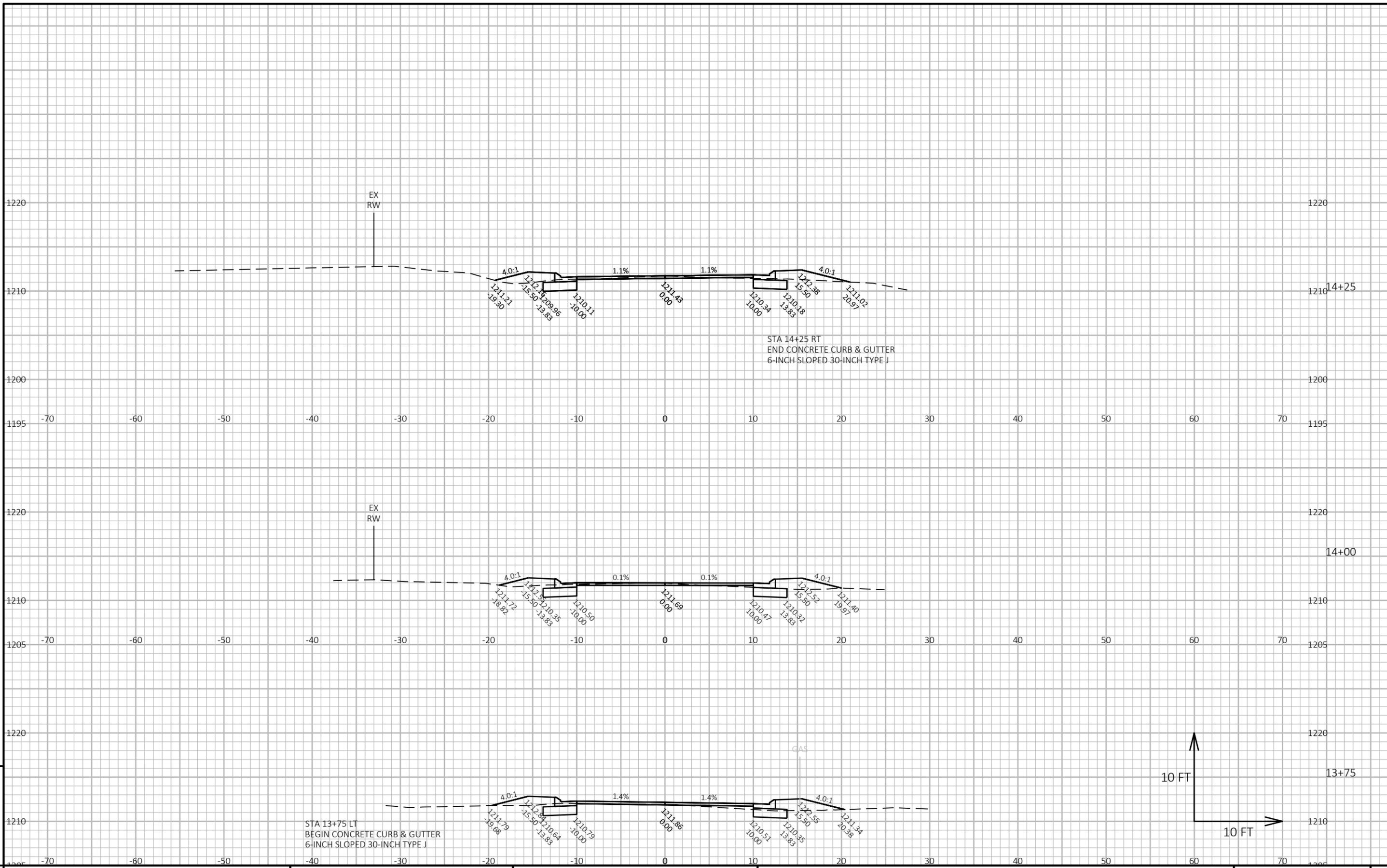
CROSS SECTIONS: IRISH RIDGE ROAD

SHEET

E



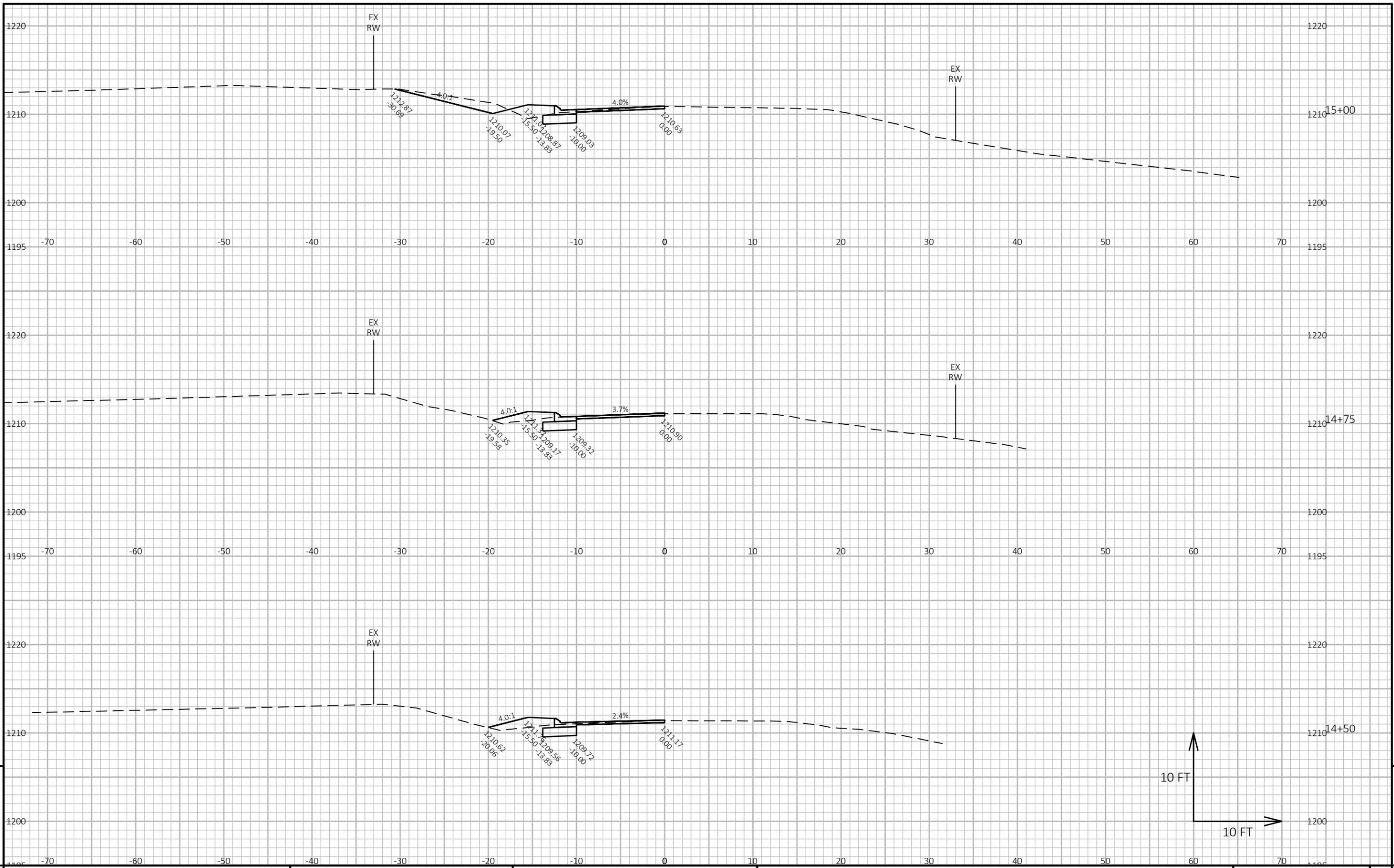
PROJECT NO: 5335-00-70 HWY: IRISH RIDGE ROAD COUNTY: CRAWFORD CROSS SECTIONS: IRISH RIDGE ROAD SHEET 9



PROJECT NO: 5335-00-70	HWY: IRISH RIDGE ROAD	COUNTY: CRAWFORD	CROSS SECTIONS: IRISH RIDGE ROAD	SHEET
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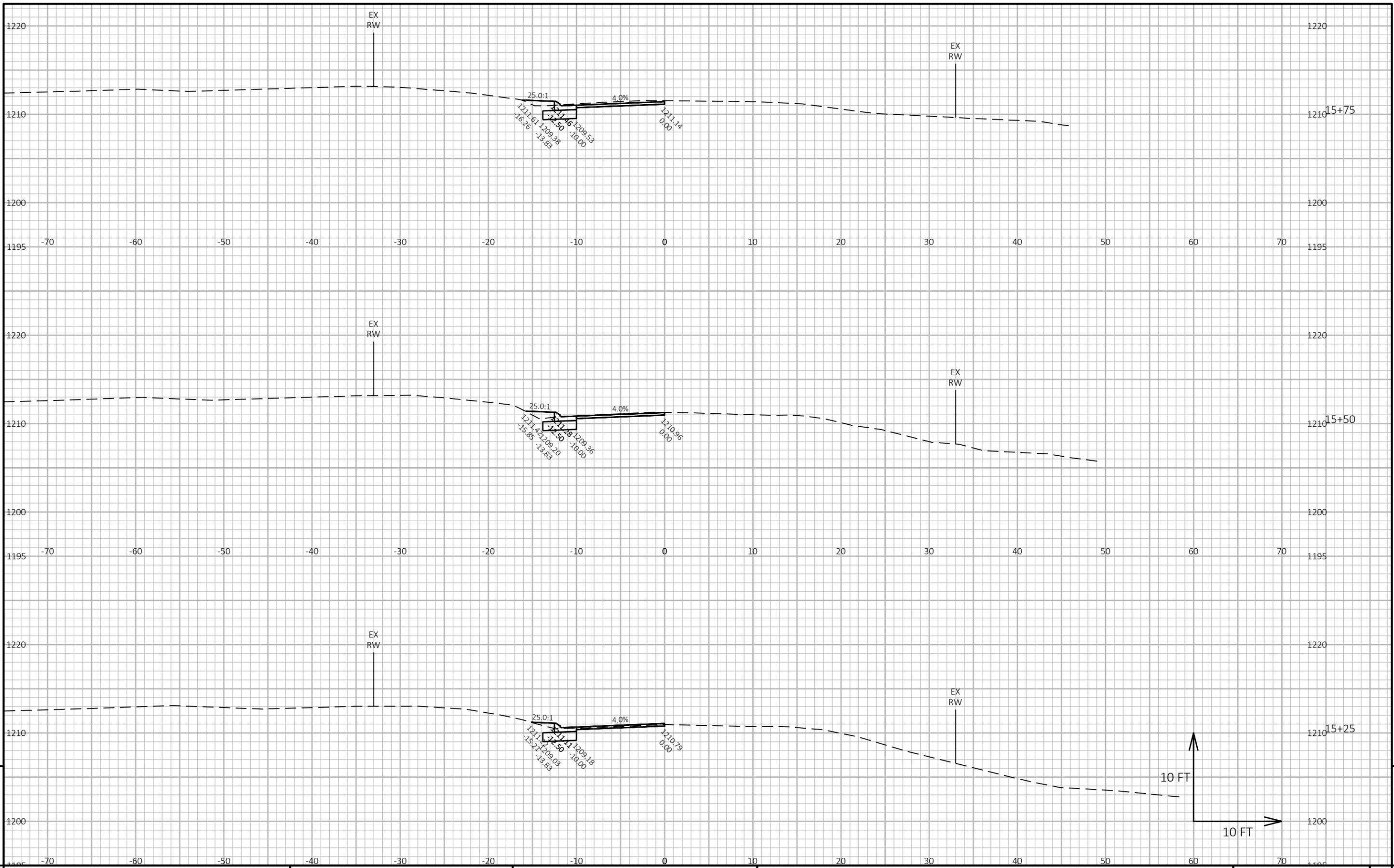
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PROJECT NO: 5335-00-70 HWY: IRISH RIDGE ROAD COUNTY: CRAWFORD CROSS SECTIONS: IRISH RIDGE ROAD SHEET E

FILE NAME : T:\PROJECTS\2022\22-1943-1 TOWN OF PRAIRIE DU CHIEN, 5335-00-0070, IRISH RIDGE ROAD (BIL)\DRAWINGS\WISDOT DRAWINGS\IRISH RIDGE ROAD CURB MODEL.DWG PLOT DATE : 7/20/2022 8:07 AM PLOT BY : TYLER BUCHANAN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - XS 5



PROJECT NO: 5335-00-70

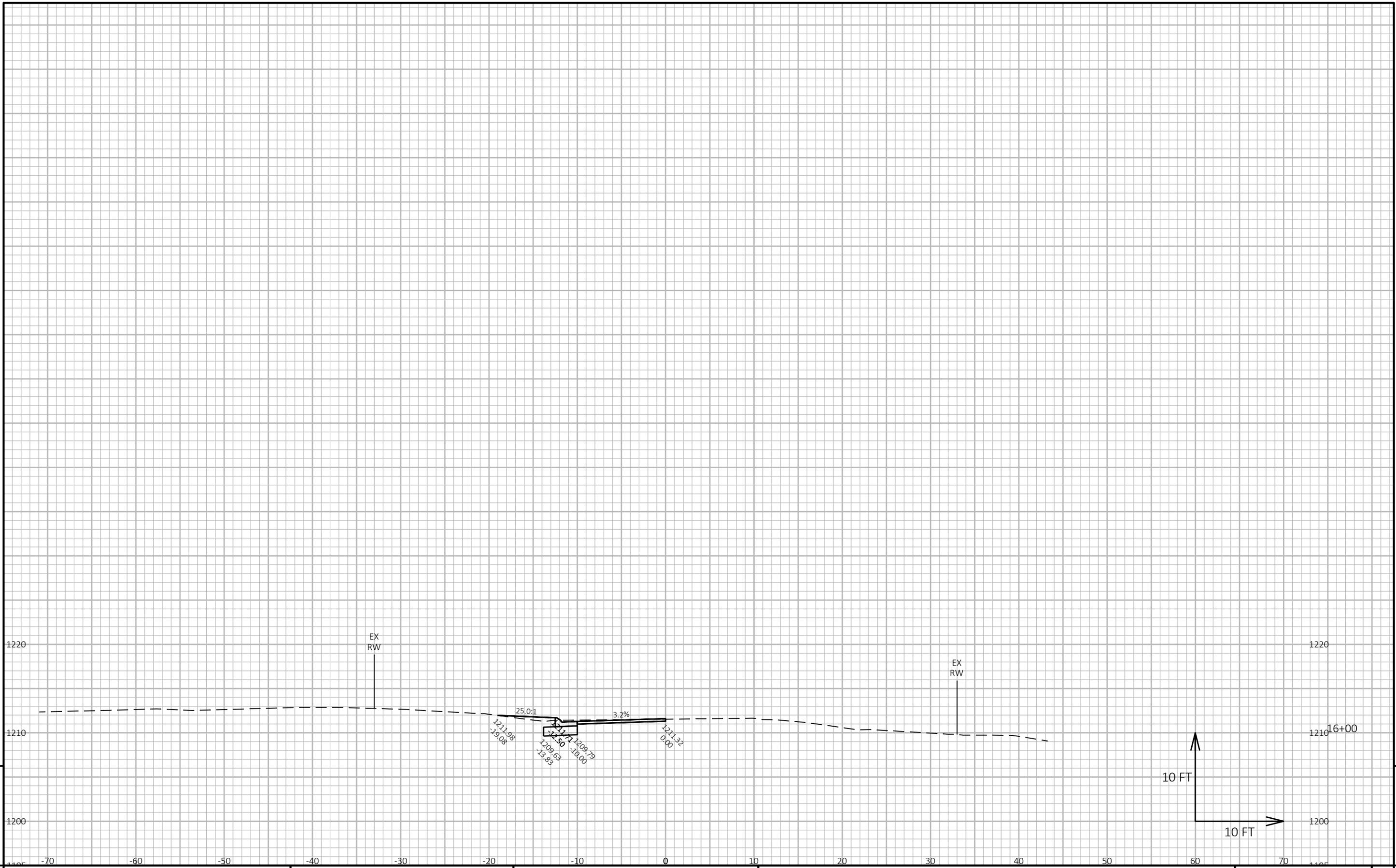
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COUNTY: CRAWFORD

CROSS SECTIONS: IRISH RIDGE ROAD

SHEET

E



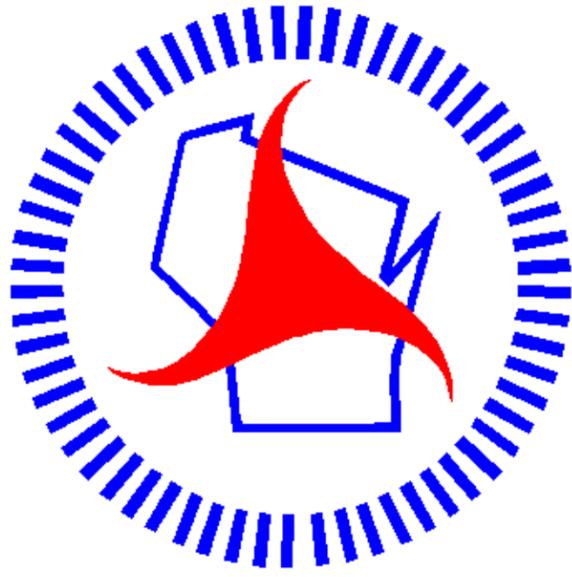
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PROJECT NO: 5335-00-70	HWY: IRISH RIDGE ROAD	COUNTY: CRAWFORD	CROSS SECTIONS: IRISH RIDGE ROAD	SHEET	E
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FILE NAME : T:\PROJECTS\2022\22-1943-1 TOWN OF PRAIRIE DU CHIEN, 5335-00-0070, IRISH RIDGE ROAD (BIL)\DRAWINGS\WISDOT DRAWINGS\IRISH RIDGE ROAD CURB MODEL.DWG PLOT DATE : 7/20/2022 8:07 AM PLOT BY : TYLER BUCHANAN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - XS 7



Wisconsin Department of Transportation

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