

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7835-00-70	WISC 2024248	1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

T LONGWOOD, CLOVERDALE ROAD

BR BLACK RIVER BRIDGE B-10-0265

LOC STR
CLARK

STATE PROJECT NUMBER
7835-00-70

ACCEPTED FOR
TOWN OF LONGWOOD
10/23/23 *Chris J. Bier*
Treasurer

ORIGINAL PLANS PREPARED BY
WESTBROOK
Associated Engineers, Inc.
619 EAST HOXIE STREET
P.O. BOX 429
SPRING GREEN, WISCONSIN 53588
PHONE (608) 588-7866
FAX (608) 588-7954

WISCONSIN
AARON B. PALMER
E-35695
RICHLAND CENTER, WI
PROFESSIONAL ENGINEER
10/23/23 *Harriet*
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor WESTBROOK ASSOCIATED ENGINEERS, INC.
Designer WESTBROOK ASSOCIATED ENGINEERS, INC.
Project Manager TYLER RONGSTAD, P.E.
Regional Examiner TOU YANG, P.E.
Regional Supervisor TYLER RONGSTAD, P.E.

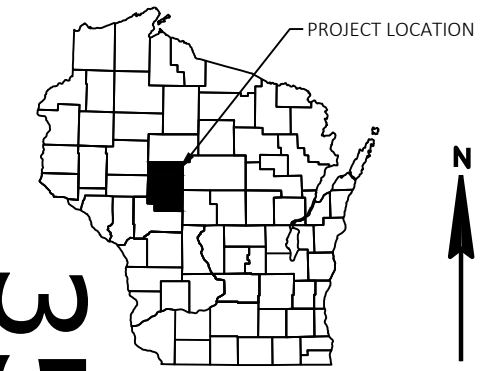
APPROVED FOR THE DEPARTMENT
Tyler Rongstad
DATE: _____
(Signature)

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ORDER OF SHEETS

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

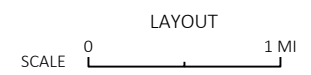
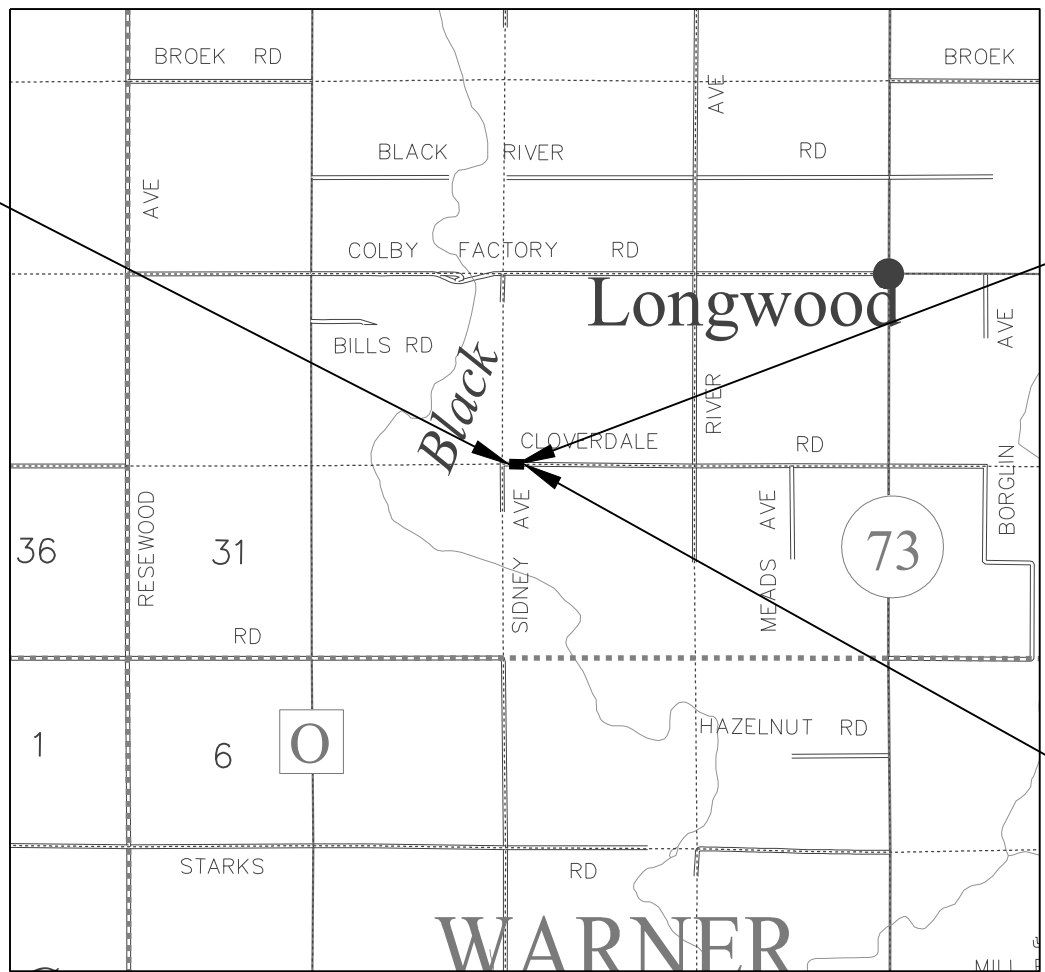
TOTAL SHEETS = 48



BEGIN PROJECT
STA 11+26.25
Y = 436 674.199
X = 674 295.796

STRUCTURE B-10-0265
STA 12+00.00

END PROJECT
STA 12+73.75



TOTAL NET LENGTH OF CENTERLINE = 0.028 MI

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

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

DESIGN DESIGNATION 7835-00-00

A.A.D.T.	2024	=	26
A.A.D.T.	2044	=	27
D.H.V.		=	4
D.D.		=	62/38
T.		=	7.7%
DESIGN SPEED		=	60 MPH
ESALS		=	N/A

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	

PROJECT ID: 7835-00-70

COUNTY: CLARK

GENERAL NOTES

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

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

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

RIGHT OF WAY INFORMATION, AS SHOWN ON THE PLANS, IS APPROXIMATE.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

EROSION CONTROL FEATURES, AS SHOWN IN THE PLANS, ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

SLOPES 2.5:1 OR STEEPER REQUIRE EROSION MAT.

APPLY SEED, MULCH OR EROSION MAT, AND FERTILIZER TO ALL DISTURBED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.

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

DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

D.O.T. MONUMENT TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT THE PROPOSED NAME PLATE WILL BE PLACED, AS DIRECTED BY THE ENGINEER.

UTILITIES CONTACTS

CLARK ELECTRIC COOPERATIVE ELECTRIC KENT WEIGEL 1209 W DALL-BERG RD GREENWOOD, WI 54437 PHONE: (715) 207-8883 EMAIL: kweigel@cecoop.com TDS TELECOM COMMUNICATIONS RODNEY LINDEMANN 9508 S. WASHINGTON AVE MARSHFIELD, WI 54449 PHONE: (715) 965-7346 EMAIL: rodney.lindemann@tdstelecom.com



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

ORDER OF SECTION 2 DETAIL SHEETS

- GENERAL NOTES
TYPICAL SECTIONS
CONTOUR MAP
PERMANENT SIGNING
ALIGNMENT DETAILS AND CONTROL POINTS

WISCONSIN DNR LIAISON

BRAD BETTHAUSER CENTRAL REGION 910 HWY 54 E BLACK RIVER FALLS, WI 54615 PHONE: (715) 213-9064 EMAIL: bradley.betthausen@wisconsin.gov

TOWN OF LONGWOOD

BILL DEVINE CLERK N14478 COUNTY HWY DD OWEN, WI 54460 PHONE: (715) 613-4103 EMAIL: clerk@townoflongwood.com

DESIGN CONSULTANT

AARON PALMER, P.E. WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE ST SPRING GREEN, WI 53588 PHONE: (608) 588-7866 EMAIL: apalmer@westbrookeng.com

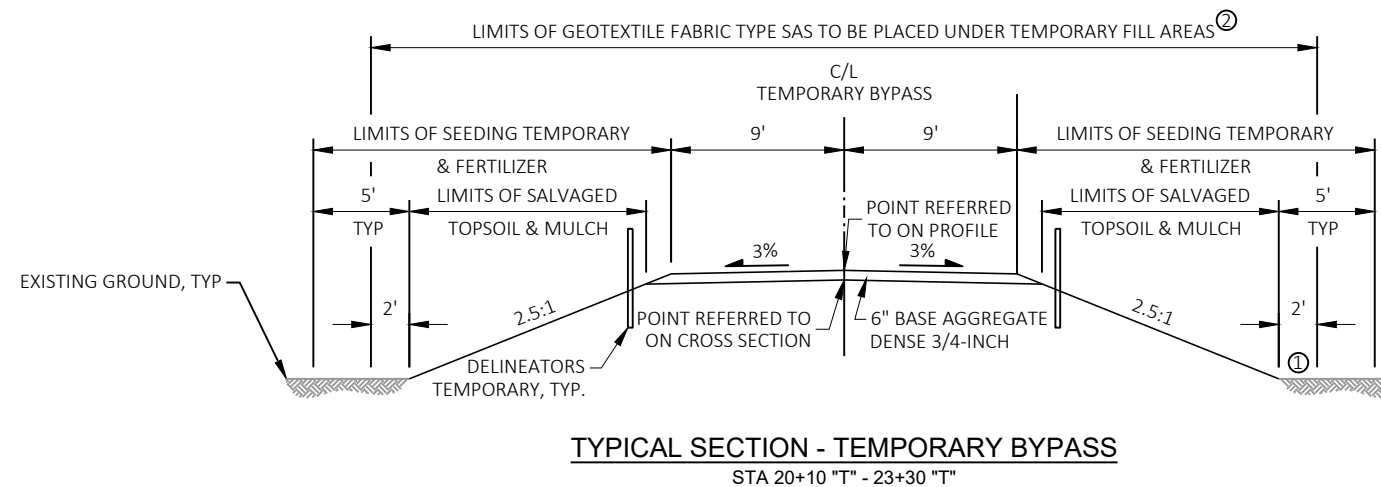
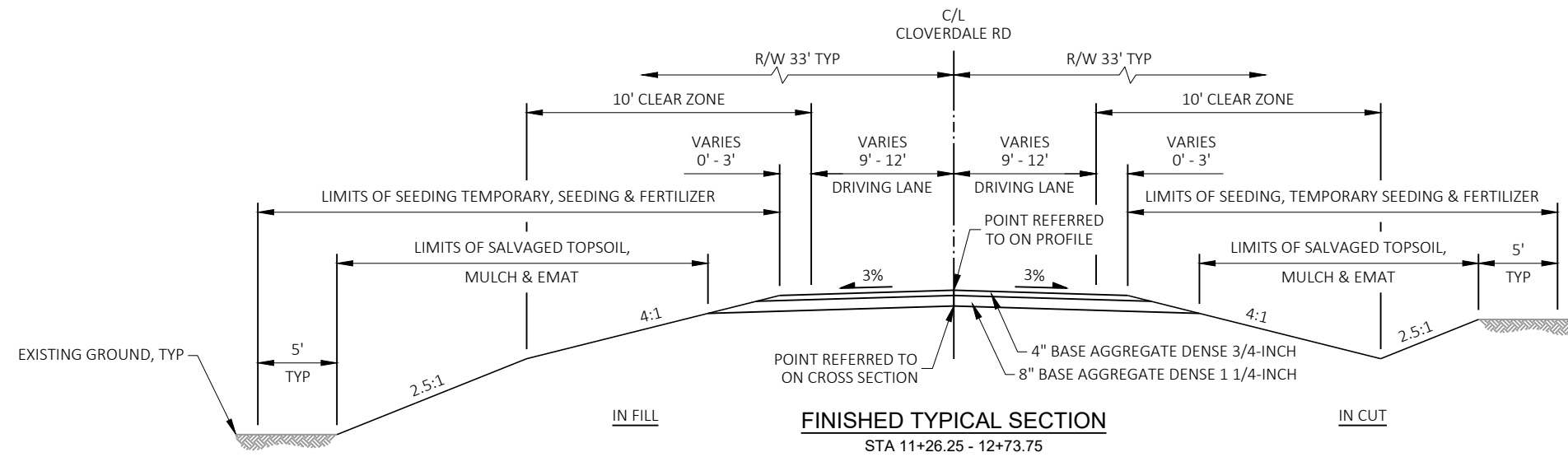
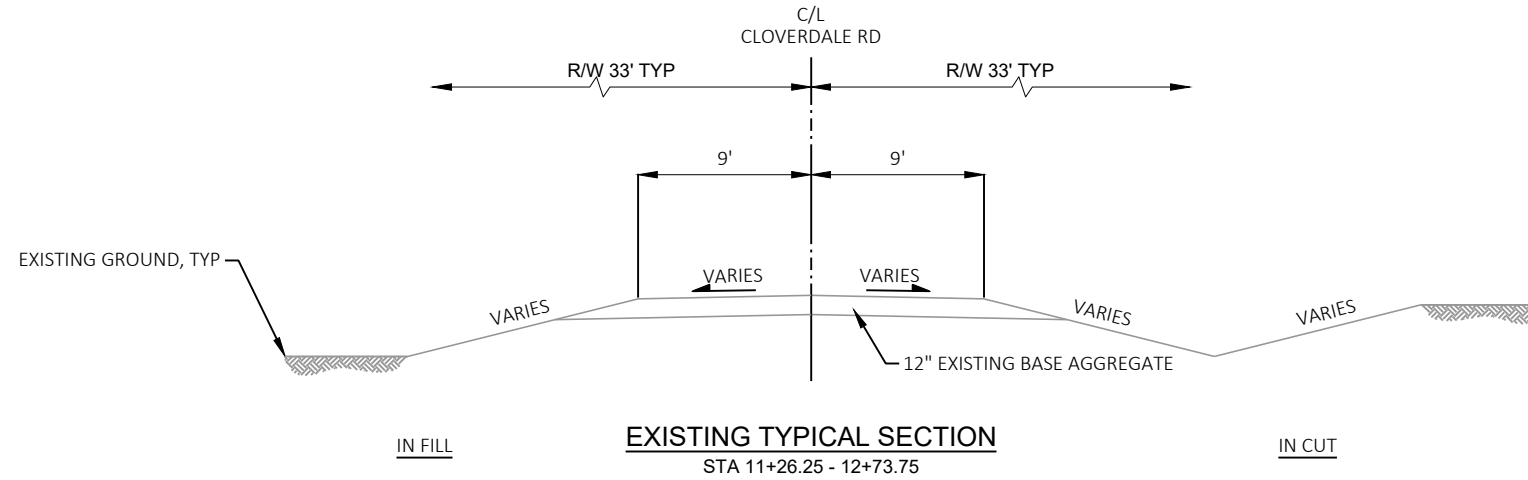
RUNOFF COEFFICIENT TABLE

Table with columns for LAND USE, HYDROLOGIC SOIL GROUP (A, B, C, D), and SLOPE RANGE (PERCENT) for various categories like ROW CROPS, MEDIAN STRIPTURF, etc.

TOTAL PROJECT AREA = 0.63 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.33 ACRES

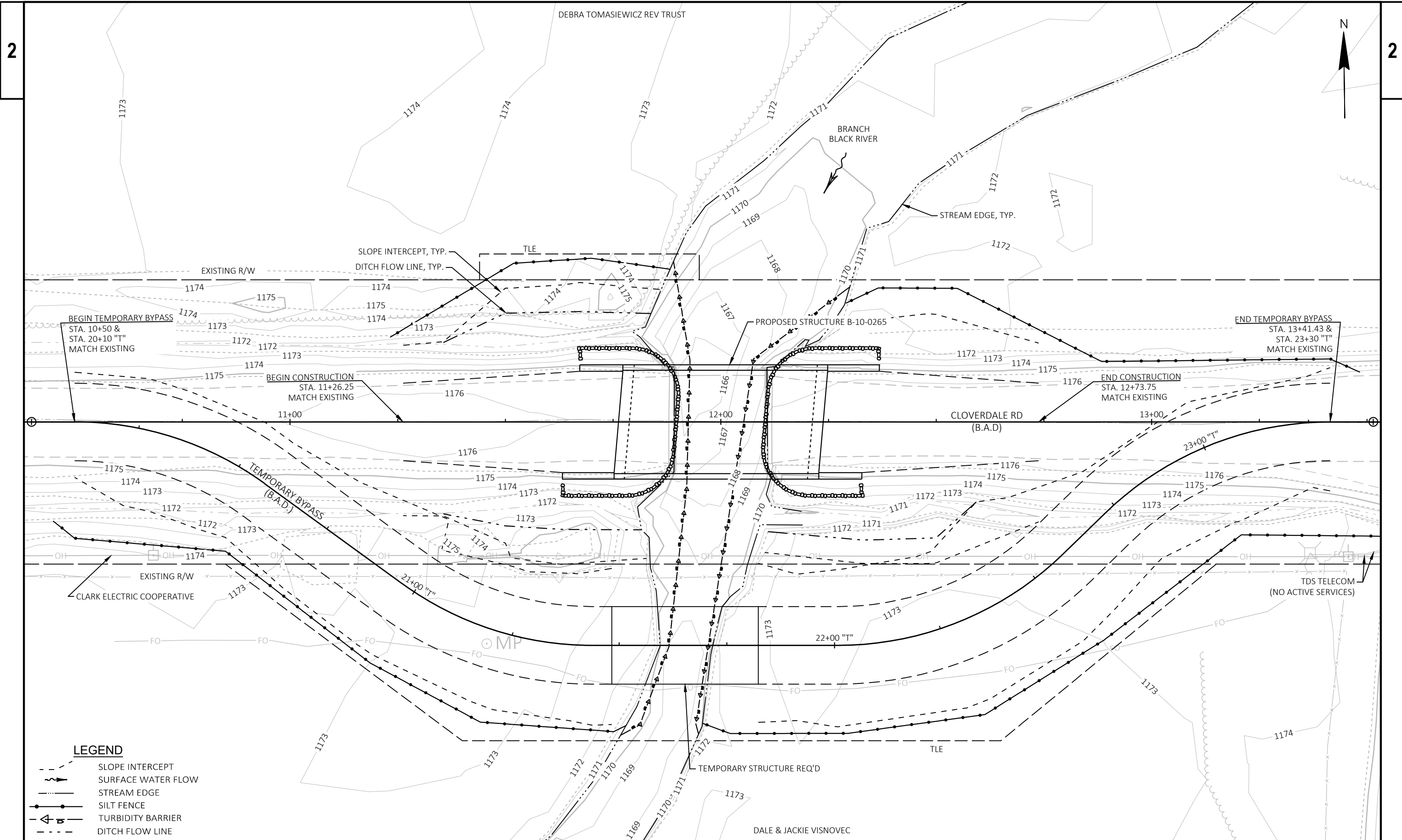
STANDARD ABBREVIATIONS

Table listing standard abbreviations such as ABUT, AC, AGG, AH, etc., and their corresponding full names.



NOTES:

- ① DISTURBED STREAM BANKS SHALL BE RESTORED BACK TO ORIGINAL CONDITION AND CONTOUR ELEVATIONS. DO NOT APPLY FERTILIZER WITHIN 20 FT OF A WATER BODY.
- ② AFTER TEMPORARY BYPASS AND GEOTEXTILE TYPE SAS HAS BEEN REMOVED RESTORE AREA UNDER PREVIOUSLY PLACED GEOTEXTILE TYPE SAS TO ORIGINAL CONDITION, SEED AND FERTILIZE.



LEGEND

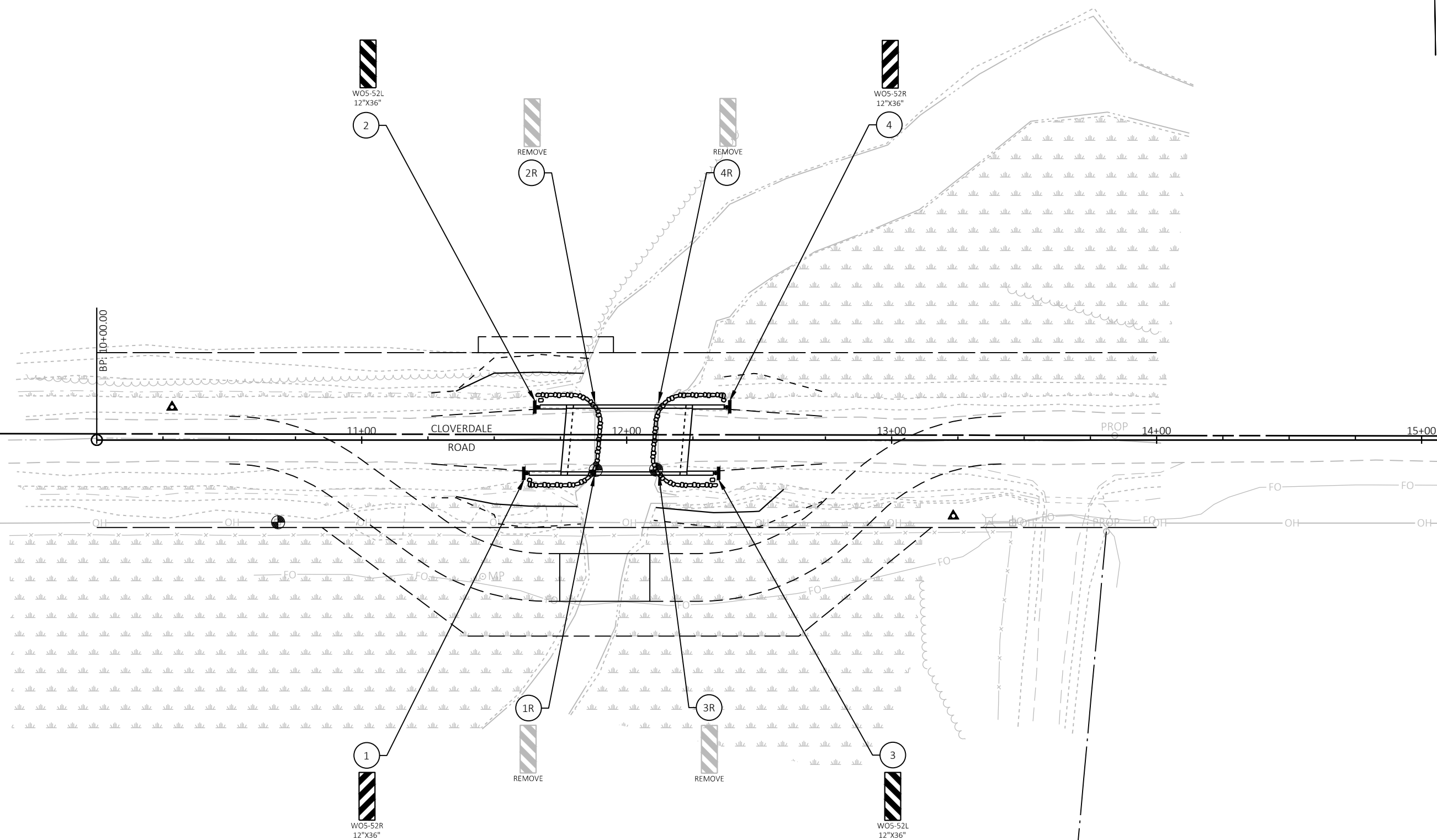
- - - SLOPE INTERCEPT
- ~ ~ ~ SURFACE WATER FLOW
- - - STREAM EDGE
- - - SILT FENCE
- - - TURBIDITY BARRIER
- - - DITCH FLOW LINE

PROJECT NO: 7835-00-70	HWY: CLOVERDALE ROAD	COUNTY: CLARK	CONTOUR MAP
SHEET			E

NOTE:
CONSTRUCT IN ACCORDANCE WITH SDD "SIGNING
AND MARKING FOR TWO LANE BRIDGES"

2

2



PROJECT NO: 7835-00-70

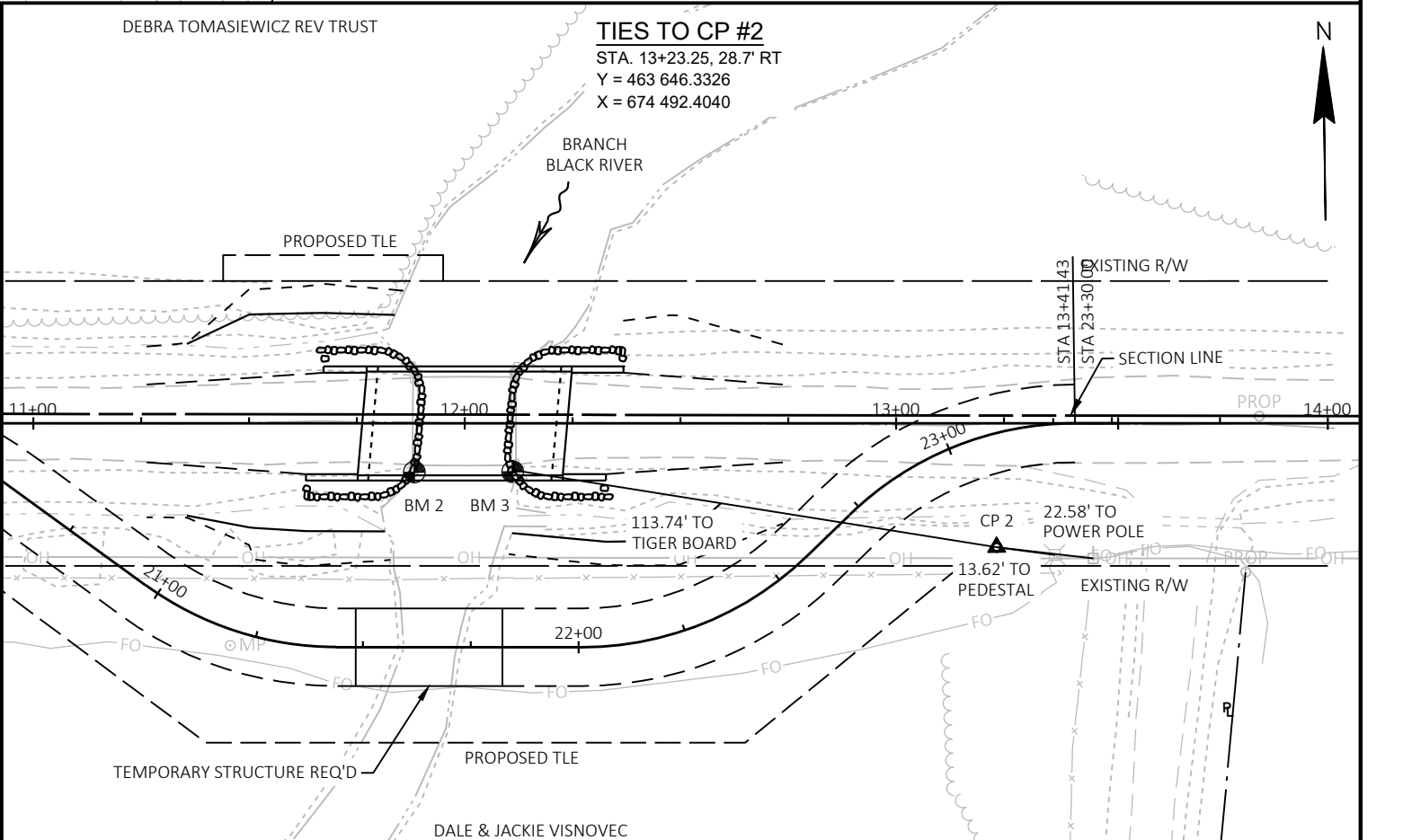
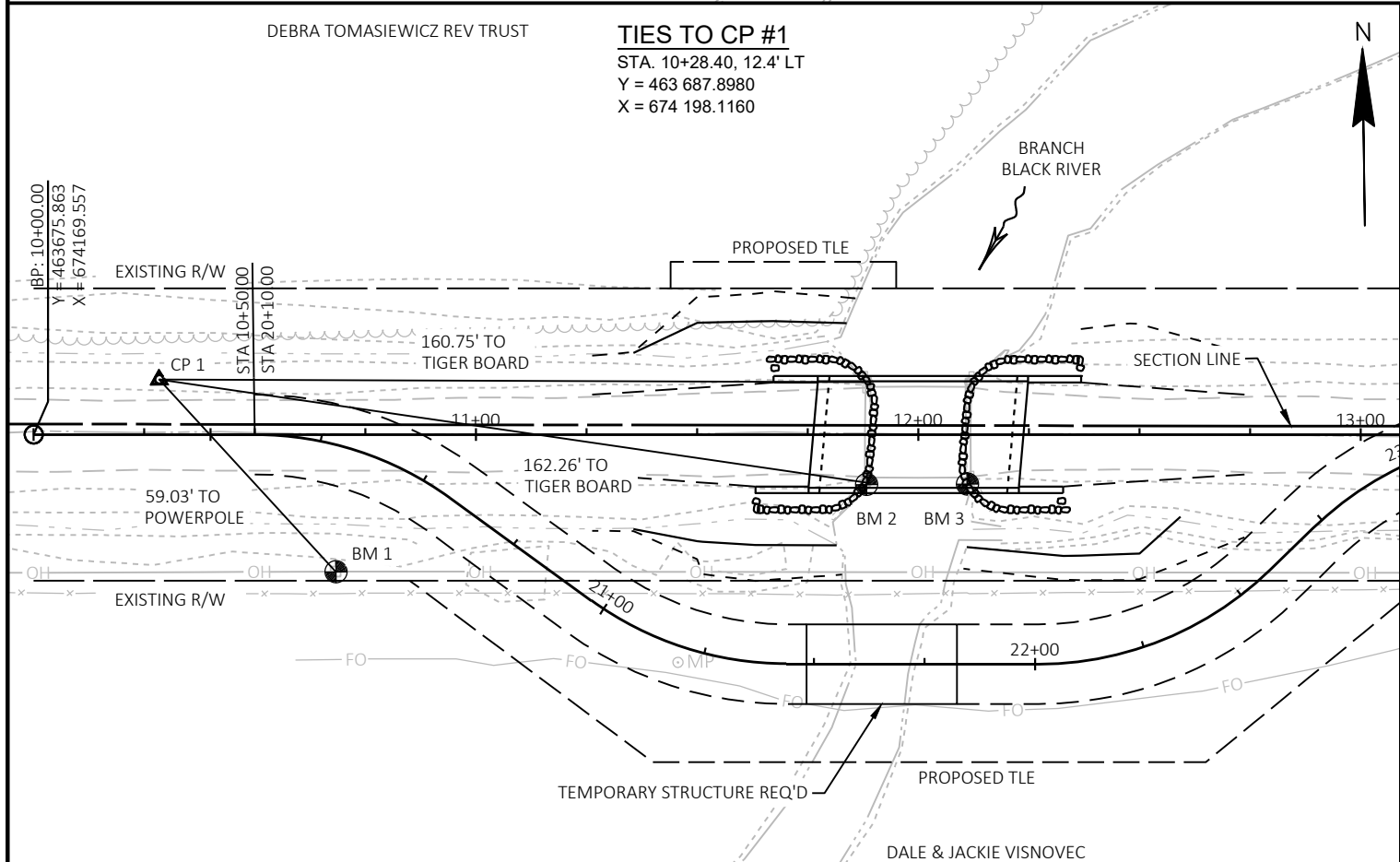
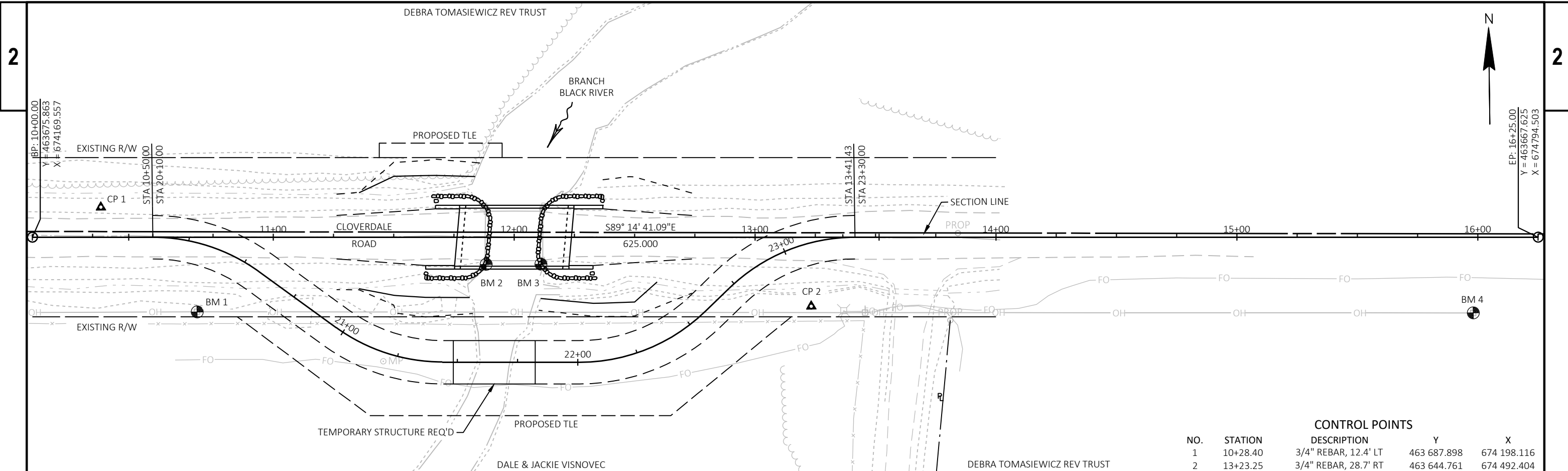
HWY: CLOVERDALE ROAD

COUNTY: CLARK

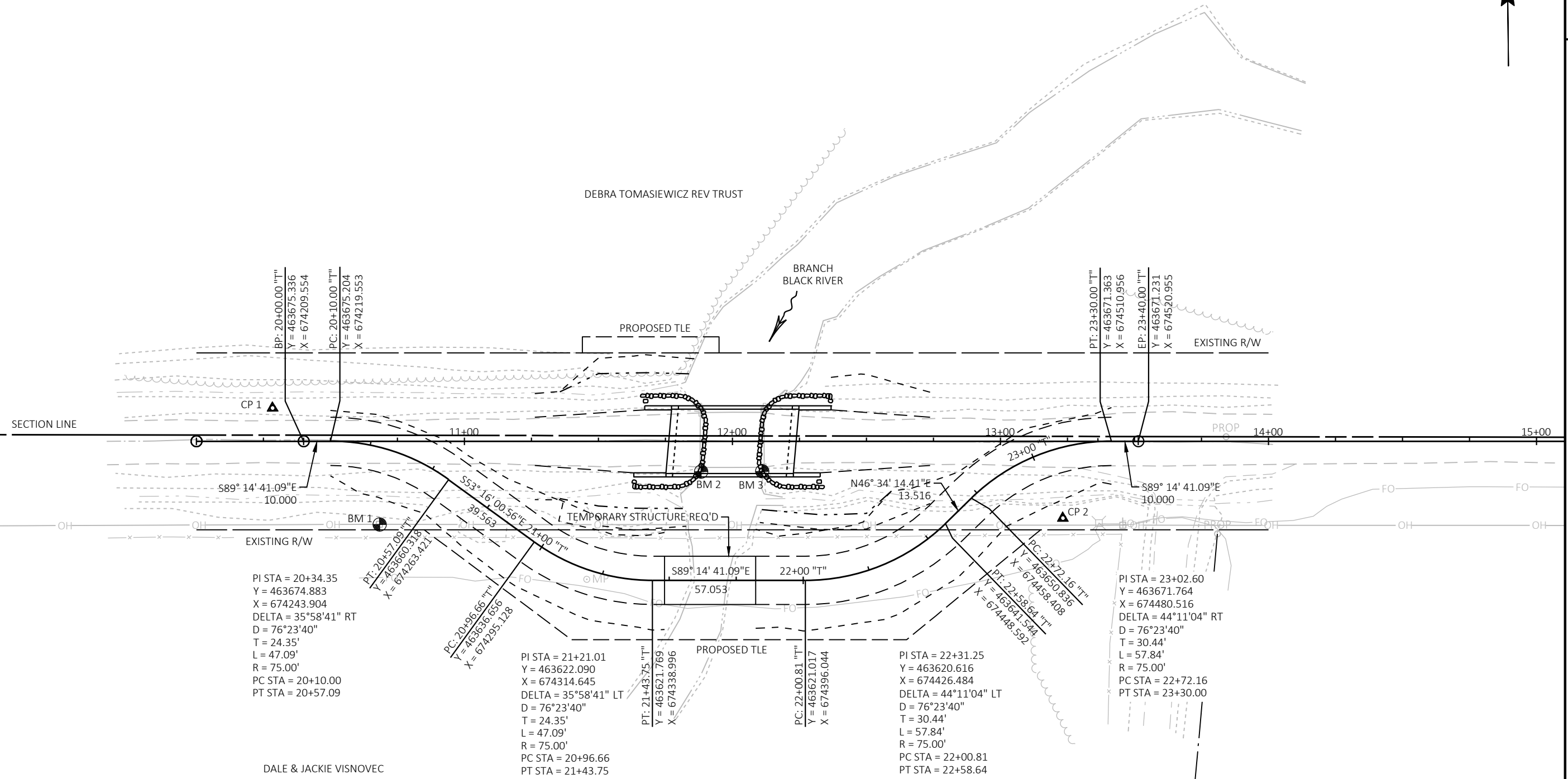
PERMANENT SIGNING

SHEET

E



PROJECT NO: 7835-00-70 | HWY: CLOVERDALE ROAD | COUNTY: CLARK | ALIGNMENT DETAILS AND CONTROL POINTS: MAINLINE | SHEET | E



Estimate Of Quantities

7835-00-70

Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-10-0912	EACH	1.000	1.000
0004	205.0100	Excavation Common	CY	744.000	744.000
0006	205.0506.S	Excavation, Hauling, and Disposal of Creosote Contaminated Soil	TON	120.000	120.000
0008	206.1001	Excavation for Structures Bridges (structure) 01. B-10-0265	EACH	1.000	1.000
0010	208.0100	Borrow	CY	725.000	725.000
0012	210.1500	Backfill Structure Type A	TON	220.000	220.000
0014	213.0100	Finishing Roadway (project) 01. 7835-00-70	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	275.000	275.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	130.000	130.000
0020	502.0100	Concrete Masonry Bridges	CY	156.000	156.000
0022	502.3200	Protective Surface Treatment	SY	192.000	192.000
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	3,250.000	3,250.000
0026	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,020.000	22,020.000
0028	506.0105	Structural Steel Carbon	LB	450.000	450.000
0030	513.4061	Railing Tubular Type M	LF	145.000	145.000
0032	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0034	526.0101	Temporary Structure (station) 01. 21+65 "T"	EACH	1.000	1.000
0036	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	450.000	450.000
0038	606.0300	Riprap Heavy	CY	84.000	84.000
0040	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	170.000	170.000
0042	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7835-00-70	EACH	1.000	1.000
0044	619.1000	Mobilization	EACH	1.000	1.000
0046	624.0100	Water	MGAL	8.100	8.100
0048	625.0500	Salvaged Topsoil	SY	385.000	385.000
0050	627.0200	Mulching	SY	2,115.000	2,115.000
0052	628.1504	Silt Fence	LF	650.000	650.000
0054	628.1520	Silt Fence Maintenance	LF	1,040.000	1,040.000
0056	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0060	628.2008	Erosion Mat Urban Class I Type B	SY	380.000	380.000
0062	628.6005	Turbidity Barriers	SY	350.000	350.000
0064	629.0210	Fertilizer Type B	CWT	2.000	2.000
0066	630.0130	Seeding Mixture No. 30	LB	60.000	60.000
0068	630.0200	Seeding Temporary	LB	75.000	75.000
0070	630.0500	Seed Water	MGAL	45.000	45.000
0072	633.1100	Delineators Temporary	EACH	23.000	23.000
0074	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0076	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0078	638.2602	Removing Signs Type II	EACH	4.000	4.000
0080	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0082	642.5001	Field Office Type B	EACH	1.000	1.000
0084	643.0300	Traffic Control Drums	DAY	2,580.000	2,580.000
0086	643.0420	Traffic Control Barricades Type III	DAY	1,290.000	1,290.000
0088	643.0705	Traffic Control Warning Lights Type A	DAY	5,160.000	5,160.000
0090	643.0900	Traffic Control Signs	DAY	3,182.000	3,182.000
0092	643.5000	Traffic Control	EACH	1.000	1.000
0094	645.0111	Geotextile Type DF Schedule A	SY	40.000	40.000
0096	645.0120	Geotextile Type HR	SY	158.000	158.000
0098	645.0140	Geotextile Type SAS	SY	1,000.000	1,000.000
0100	650.4500	Construction Staking Subgrade	LF	377.000	377.000

Estimate Of Quantities

7835-00-70

Line	Item	Item Description	Unit	Total	Qty
0102	650.5000	Construction Staking Base	LF	100.000	100.000
0104	650.6501	Construction Staking Structure Layout (structure) 01. B-10-0265	EACH	1.000	1.000
0106	650.9911	Construction Staking Supplemental Control (project) 01. 7835-00-70	EACH	1.000	1.000
0108	650.9920	Construction Staking Slope Stakes	LF	377.000	377.000
0110	715.0502	Incentive Strength Concrete Structures	DOL	936.000	936.000
0112	999.2005.S	Maintaining Bird Deterrent System (station) 01. 12+00	EACH	1.000	1.000
0114	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0116	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

NOTE:
ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE.

DIVISION	FROM/TO STATION	205.0100	SALVAGED/UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL (3)	MASS ORDINATE +/- (4)	WASTE (5)	208.0100 BORROW
		COMMON EXCAVATION CUT (1)				FACTOR 1.25			
DIVISION 1									
CLOVERDALE WEST	11+26.25/11+76.25	54	0	54	27	34	20	20	0
CLOVERDALE EAST	12+23.75/12+73.75	53	0	53	39	49	4	4	0
DIVISION 1 SUBTOTAL		107	0	107	66	83	25	25	0
DIVISION 2									
TEMPBYPASS WEST	20+10.00/21+48.32	11	0	11	267	334	-323	0	323
TEMPBYPASS EAST	21+82.32/23+30.00	10	0	10	349	436	-426	0	426
DIVISION 2 SUBTOTAL		21	0	21	616	770	-749	0	749
DIVISION 3									
REMOVING TEMPBYPASS WEST	20+10.00/21+48.32	267	0	267	11	14	253	253	0
REMOVING TEMPBYPASS EAST	21+82.32/23+30.00	349	0	349	10	13	337	337	0
DIVISION 3 SUBTOTAL		616	0	616	21	26	590	590	0
GRAND TOTAL		744	0	744	703	879			725
TOTAL COMMON EXC		744					TOTAL BORROW		725

NOTES:

- (1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (2) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (3) EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR
- (4) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (5) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

BASE AGGREGATE DENSE						
STATION TO	STATION	LOCATION	305.0110	305.0120	624.0100	
			BASE AGGREGATE DENSE 3/4-INCH TON	BASE AGGREGATE DENSE 1 1/4-INCH TON	WATER MGAL	
11+26	- 11+77	MAINLINE	30	65	1.9	
12+23	- 12+74	MAINLINE	30	65	1.9	
20+10 "T"	- 21+49 "T"	TEMPORARY BYPASS	105	-	2.1	
21+82 "T"	- 23+30 "T"	TEMPORARY BYPASS	110	-	2.2	
TOTAL			275	130	8.1	

FINISHING ITEMS

STATION TO	STATION	LOCATION	625.0500	627.0200	628.2008	629.0210	630.0120	630.0200	630.0500
			SALVAGED TOPSOIL SY	MULCHING SY	EROSION MAT URBAN CLASS I TYPE B SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 20 LB	SEEDING TEMPORARY LB	SEED WATER MGAL
11+26	- 11+77	MAINLINE, LT	80	---	80	0.1	4	4	3.1
11+26	- 11+77	MAINLINE, RT	80	---	80	0.1	4	4	2.7
12+23	- 12+74	MAINLINE, LT	40	---	40	0.1	2	2	1.7
12+23	- 12+74	MAINLINE, RT	105	---	105	0.1	4	4	3.3
20+10	- 21+49	TEMP BYPASS, LT	---	100	---	0.1	---	3	---
20+10	- 21+49	TEMP BYPASS, RT	---	160	---	0.1	---	5	---
21+82	- 23+30	TEMP BYPASS, LT	---	120	---	0.1	---	4	---
21+82	- 23+30	TEMP BYPASS, RT	---	180	---	0.1	---	5	---
20+10	- 21+49	TEMP BYPASS	---	535	---	0.4	15	15	12.0
21+82	- 23+30	TEMP BYPASS	---	595	---	0.4	16	16	13.3
UNDISTRIBUTED			80	425	75	0.4	15	13	8.9
TOTAL			385	2,115	380	2.0	60	75	45.0

SILT FENCE

STATION TO	STATION	LOCATION	628.1504	628.1520
			SILT FENCE LF	SILT FENCE MAINTENANCE LF
11+26	- 11+77	MAINLINE, LT	70	140
11+26	- 11+77	MAINLINE, RT	150	300
12+23	- 12+74	MAINLINE, LT	125	250
12+23	- 12+74	MAINLINE, RT	175	350
UNDISTRIBUTED			130	---
TOTAL			650	1,040

TURBIDITY BARRIER

LOCATION	628.6005
	TURBIDITY BARRIERS SY
WEST ABUTMENT	155
EAST ABUTMENT	155
UNDISTRIBUTED	40
TOTAL	350

MOBILIZATIONS EROSION CONTROL

LOCATION	628.1905	628.1910
	MOBILIZATIONS EROSION CONTROL EACH	MOBILIZATIONS EMERGENCY CONTROL EACH
ID 7835-00-70	3	2
TOTAL	3	2

PROJECT NO: 7835-00-70

HWY: CLOVERDALE ROAD

COUNTY: CLARK

MISCELLANEOUS QUANTITIES

SHEET

E

NOTE:
ALL ITEMS ARE CATEGORY 0010
UNLESS NOTED OTHERWISE.

3

3

SIGNING

STATION	LOCATION	SIGN CODE	SIGN DESCRIPTION	634.0612	637.2230	638.2602	638.3000	REMARKS
				POSTS WOOD 4X6-INCH X 12-FT EACH	SIGNS TYPE II REFLECTIVE F SF	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	
11+62	MAINLINE, RT	W5-52R	BRIDGE HASH MARKS	1	3	---	---	1
11+66	MAINLINE, LT	W5-52L	BRIDGE HASH MARKS	1	3	---	---	2
11+89	MAINLINE, RT	---	BRIDGE HASH MARKS	---	---	1	1	1R
11+89	MAINLINE, LT	---	BRIDGE HASH MARKS	---	---	1	1	2R
12+11	MAINLINE, RT	---	BRIDGE HASH MARKS	---	---	1	1	3R
12+11	MAINLINE, LT	---	BRIDGE HASH MARKS	---	---	1	1	4R
12+34	MAINLINE, RT	W5-52L	BRIDGE HASH MARKS	1	3	---	---	3
12+38	MAINLINE, LT	W5-52R	BRIDGE HASH MARKS	1	3	---	---	4
TOTAL				4	12	4	4	

TRAFFIC CONTROL

LOCATION	DURATION	633.1100	643.0300		643.0420		643.0705		643.0900		643.5000
		DELINEATORS TEMPORARY EACH	TRAFFIC CONTROL DRUMS NO.	DAY	TRAFFIC CONTROL BARRICADES TYPE III NO.	DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A NO.	DAY	TRAFFIC CONTROL SIGNS NO.	DAY	TRAFFIC CONTROL EACH
WEST APPROACH	86	10	12	1,032	6	516	24	2,064	15	1,290	---
EAST APPROACH	86	10	12	1,032	6	516	24	2,064	15	1,290	---
UNDISTRIBUTED	86	3	6	516	3	258	12	1,032	7	602	---
PROJECT		---	---	---	---	---	---	---	---	---	1
TOTAL		23	30	2,580	15	1,290	60	5,160	37	3,182	1

PLACE TRAFFIC CONTROL IN ACCORDANCE WITH SDD 15C2 "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION."
PLACEMENT SUBJECT TO ENGINEER APPROVAL.

GEOTEXTILE TYPE SAS

STATION	TO	STATION	LOCATION	645.0140 SY
20+10	-	21+49	TEMPORARY BYPASS	400
21+82	-	23+30	TEMPORARY BYPASS	475
			UNDISTRIBUTED	125
TOTAL				1,000

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4500	650.5000	650.6501	650.9911	650.9920
				CONSTRUCTION STAKING SUBGRADE LF	CONSTRUCTION STAKING BASE LF	CONSTRUCTION STAKING STRUCTURE LAYOUT 01. B-10-0265 EACH	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 01. 7835-00-70 EACH	CONSTRUCTION STAKING SLOPE STAKES LF
11+26	-	11+77	MAINLINE	50	50	---	---	50
12+23	-	12+74	MAINLINE	50	50	---	---	50
20+10	-	21+49	TEMP BYPASS	139	---	---	---	139
21+82	-	23+30	TEMP BYPASS	138	---	---	---	138
PROJECT				---	---	1	1	---
TOTAL				377	100	1*	1	377

* CATEGORY 0020

EXCAVATION, HAULING, AND DISPOSAL OF
CREOSOTE CONTAMINATED SOIL

LOCATION	205.0506.S TON
WEST APPROACH	60
EAST APPROACH	60
TOTAL	120

PROJECT NO: 7835-00-70

HWY: CLOVERDALE ROAD

COUNTY: CLARK

MISCELLANEOUS QUANTITIES

SHEET

E

R/W PROJECT NUMBER: 7835-00-00 EXHIBIT NUMBER: 1

TLE ACQUISITION EXHIBIT
T OF LONGWOOD, CLOVERDALE ROAD
BR BLACK RIVER BRIDGE B-10-0265

LOC STR CLARK COUNTY

PART OF THE SW 1/4 OF THE SW 1/4 OF SECTION 28 AND PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 33, ALL IN T28N, R02W TOWN OF LONGWOOD, CLARK COUNTY, WISCONSIN

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

THE PURPOSE OF THE TLE IS FOR GRADING AND THE TEMPORARY BYPASS.

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

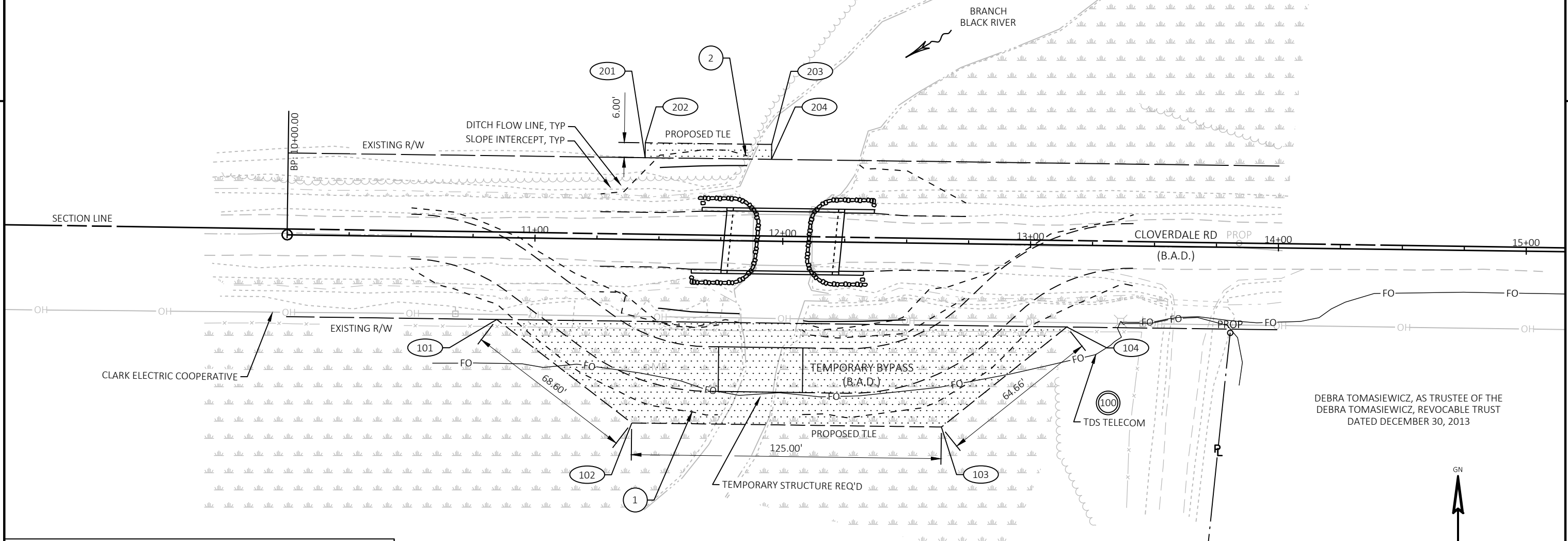
SW 1/4 - SW 1/4 SEC 28 TOWN OF LONGWOOD

DEBRA TOMASIEWICZ, AS TRUSTEE OF THE DEBRA TOMASIEWICZ, REVOCABLE TRUST
DATED DECEMBER 30, 2013
DOC 599242
TAX PARCEL NUMBER 0300595000

POINT	FROM ROAD REFERENCE LINE		NORTHING	EASTING
	STATION	OFFSET		
101	10+85.00	33.00'	463 641.7456	674 254.1149
102	11+40.00	74.00'	463 600.0242	674 308.5697
103	12+65.00	74.00'	463 598.3766	674 433.5588
104	13+15.00	33.00'	463 638.7139	674 484.0949
201	11+44.00	-33.00'	463 706.9622	674 313.9797
202	11+44.00	-39.00'	463 712.9617	674 314.0588
203	11+95.00	-39.00'	463 712.2894	674 365.0544
204	11+95.00	-33.00'	463 706.2899	674 364.9753

4

4



SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
1	DALE & JACKIE VISNOVEC	TLE	7278
2	DEBRA TOMASIEWICZ REVOCABLE TRUST	TLE	306

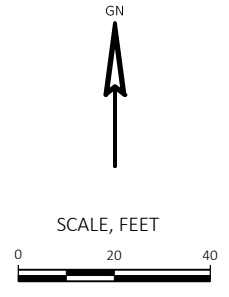
UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	TDS TELECOM	TEMPORARY RELEASE OF RIGHTS

DALE R. VISNOVEC AND JACKIE L. VISNOVEC,
HUSBAND AND WIFE
DOC 582372
TAX PARCEL NUMBER 0300682000
LOT 1, CSM 1856
VOL. 9, PG. 45
DOC. 573723

NW 1/4 - NW 1/4 SEC 33

DEBRA TOMASIEWICZ, AS TRUSTEE OF THE DEBRA TOMASIEWICZ, REVOCABLE TRUST
DATED DECEMBER 30, 2013

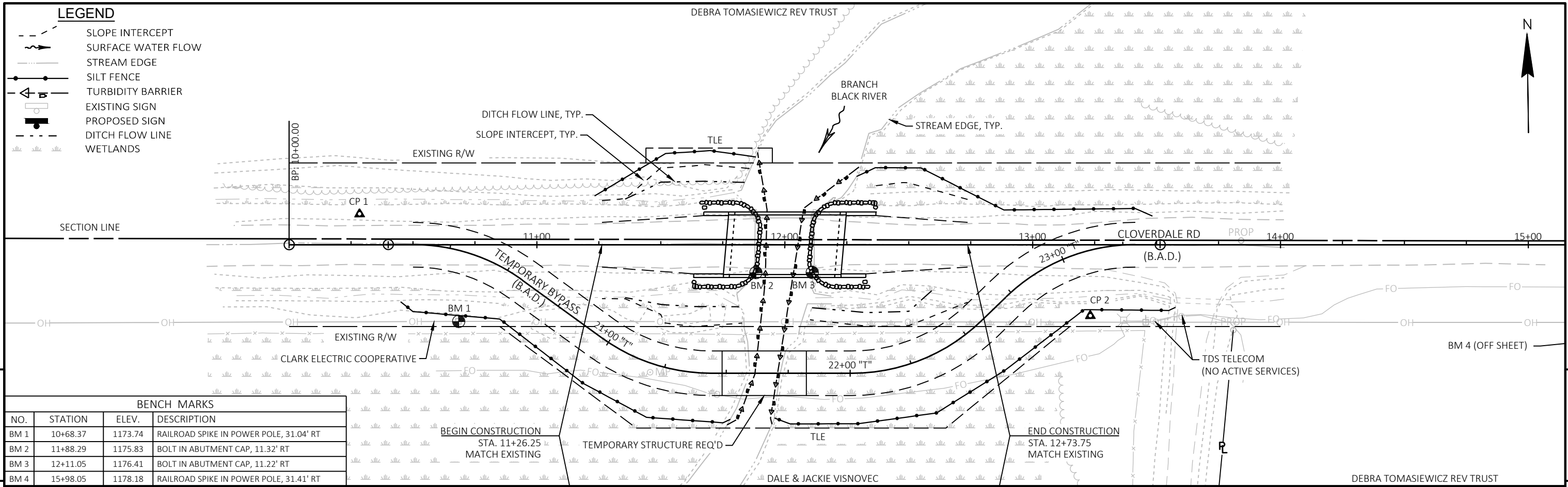


THIS MAP IS APPROVED FOR THE TOWN OF LONGWOOD, CLARK COUNTY, WISCONSIN.

SIGNATURE: *William J. Devine* DATE: 8/27/23
PRINT NAME: WILLIAM J. DEVINE

LEGEND

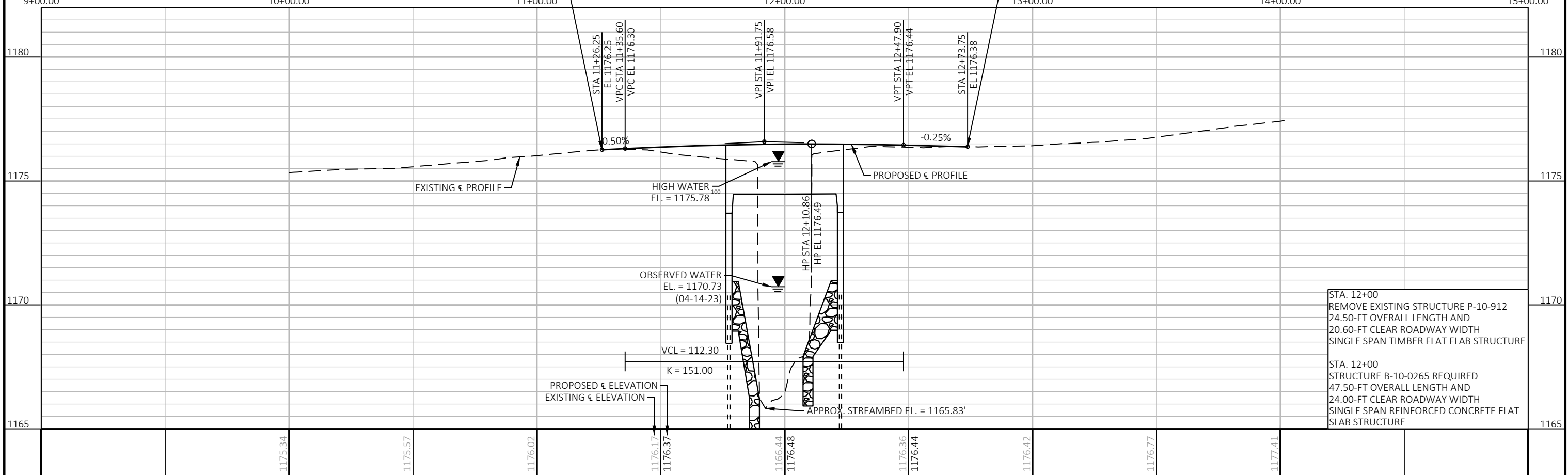
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- STREAM EDGE
- SILT FENCE
- TURBIDITY BARRIER
- EXISTING SIGN
- PROPOSED SIGN
- DITCH FLOW LINE
- WETLANDS



BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
BM 1	10+68.37	1173.74	RAILROAD SPIKE IN POWER POLE, 31.04' RT
BM 2	11+88.29	1175.83	BOLT IN ABUTMENT CAP, 11.32' RT
BM 3	12+11.05	1176.41	BOLT IN ABUTMENT CAP, 11.22' RT
BM 4	15+98.05	1178.18	RAILROAD SPIKE IN POWER POLE, 31.41' RT

BEGIN CONSTRUCTION STA. 11+26.25 MATCH EXISTING

END CONSTRUCTION STA. 12+73.75 MATCH EXISTING



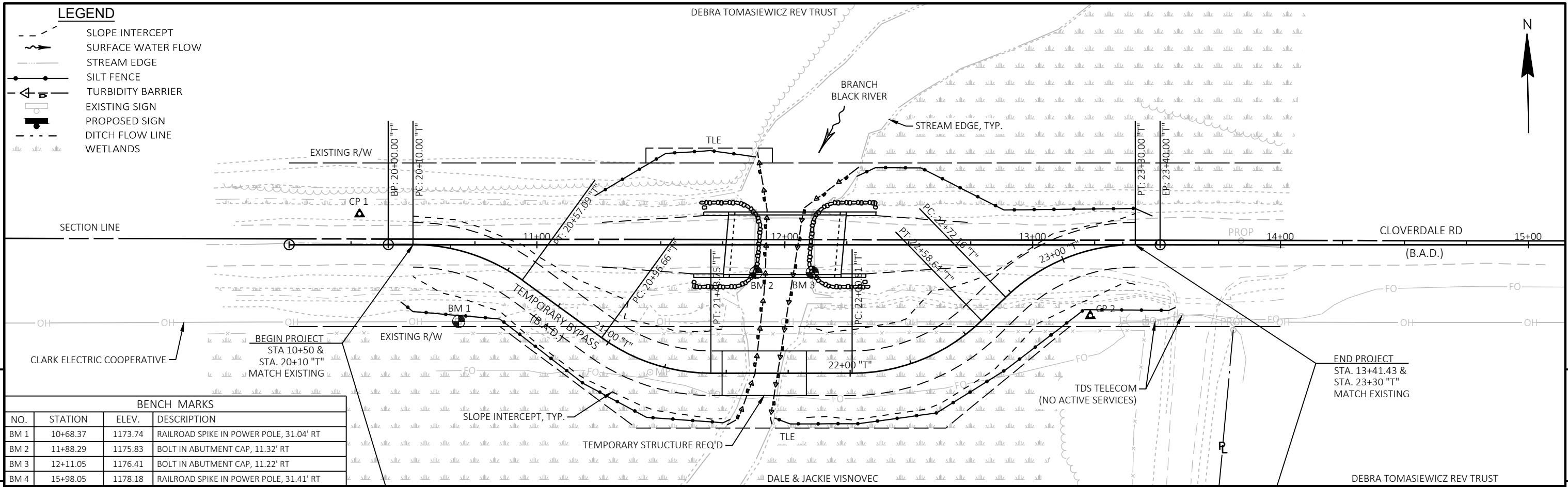
STA. 12+00
REMOVE EXISTING STRUCTURE P-10-912
24.50-FT OVERALL LENGTH AND
20.60-FT CLEAR ROADWAY WIDTH
SINGLE SPAN TIMBER FLAT FLAB STRUCTURE

STA. 12+00
STRUCTURE B-10-0265 REQUIRED
47.50-FT OVERALL LENGTH AND
24.00-FT CLEAR ROADWAY WIDTH
SINGLE SPAN REINFORCED CONCRETE FLAT
SLAB STRUCTURE

PROJECT NO: 7835-00-70	HWY: CLOVERDALE ROAD	COUNTY: CLARK	PLAN AND PROFILE: MAINLINE	SHEET	E
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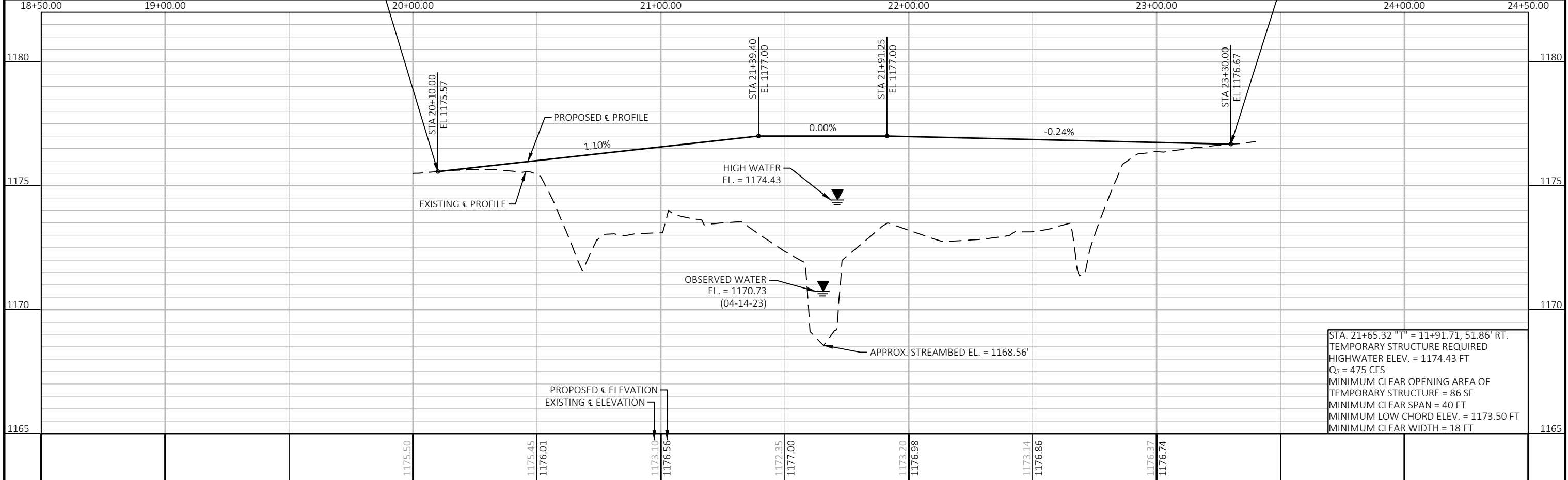
LEGEND

- SLOPE INTERCEPT
- SURFACE WATER FLOW
- STREAM EDGE
- SILT FENCE
- TURBIDITY BARRIER
- EXISTING SIGN
- PROPOSED SIGN
- DITCH FLOW LINE
- WETLANDS



BENCH MARKS

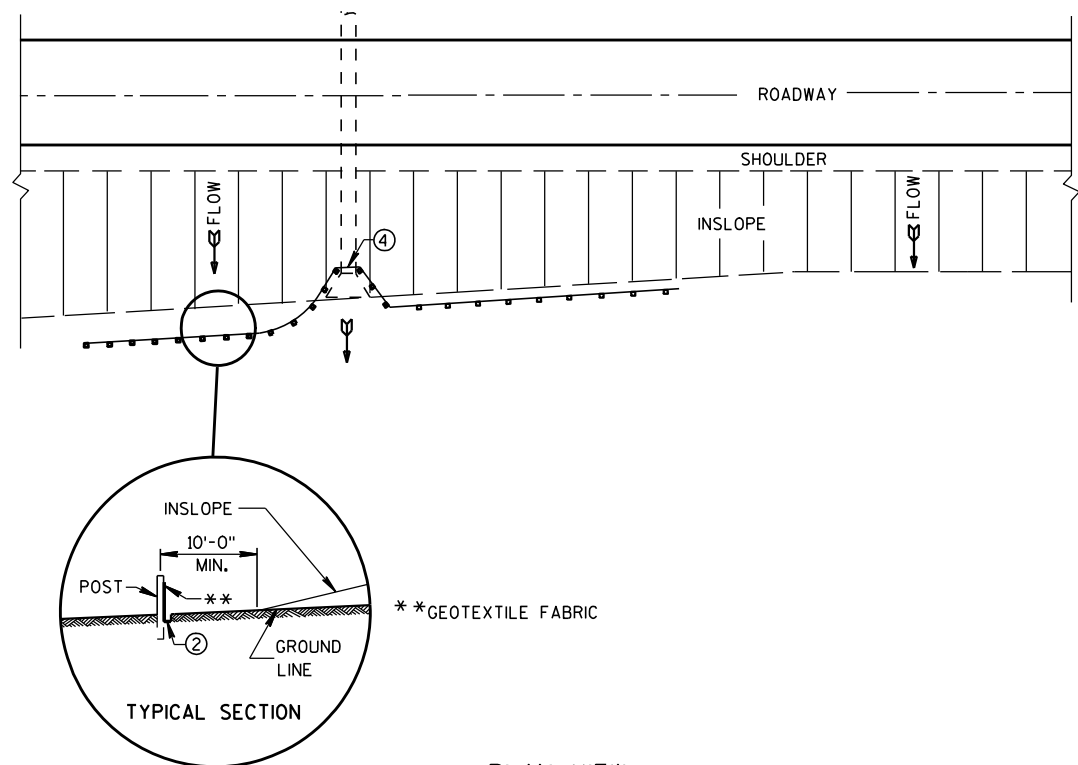
NO.	STATION	ELEV.	DESCRIPTION
BM 1	10+68.37	1173.74	RAILROAD SPIKE IN POWER POLE, 31.04' RT
BM 2	11+88.29	1175.83	BOLT IN ABUTMENT CAP, 11.32' RT
BM 3	12+11.05	1176.41	BOLT IN ABUTMENT CAP, 11.22' RT
BM 4	15+98.05	1178.18	RAILROAD SPIKE IN POWER POLE, 31.41' RT



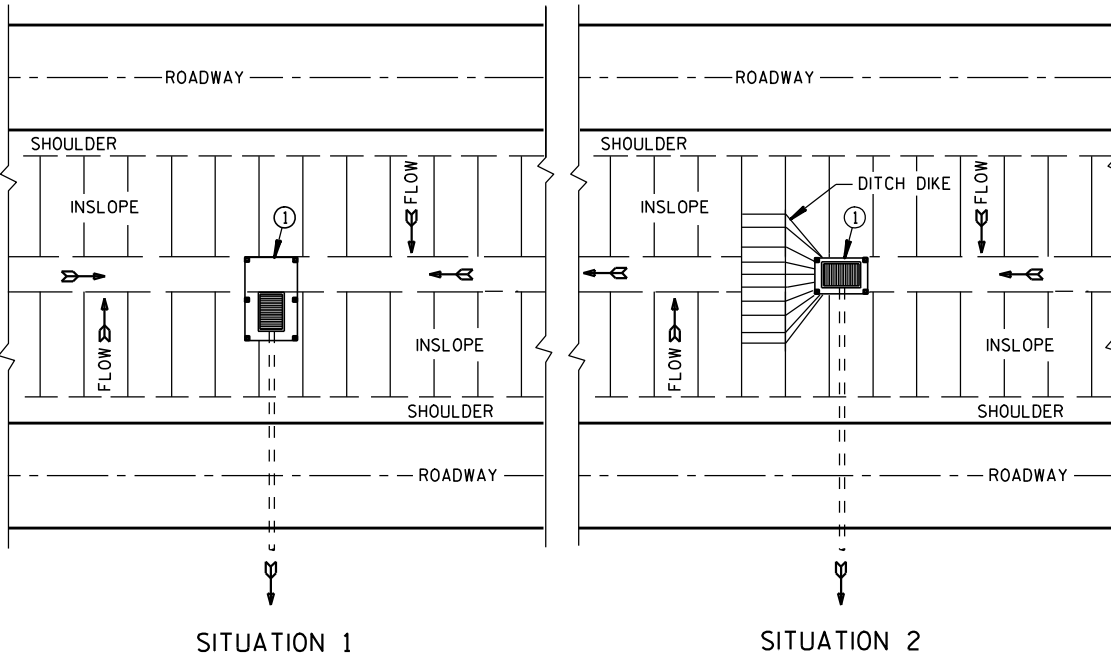
PROJECT NO: 7835-00-70 HWY: CLOVERDALE ROAD COUNTY: CLARK PLAN AND PROFILE: TEMPORARY BYPASS SHEET **E**

Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15A04-07A	FLEXIBLE DELINEATOR POST
15A04-07E	DELINEATOR POST WITH REFLECTIVE SHEETING
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D31-05	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY



PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

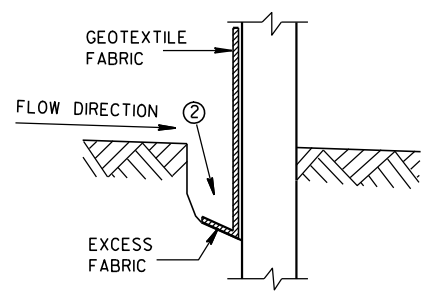


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

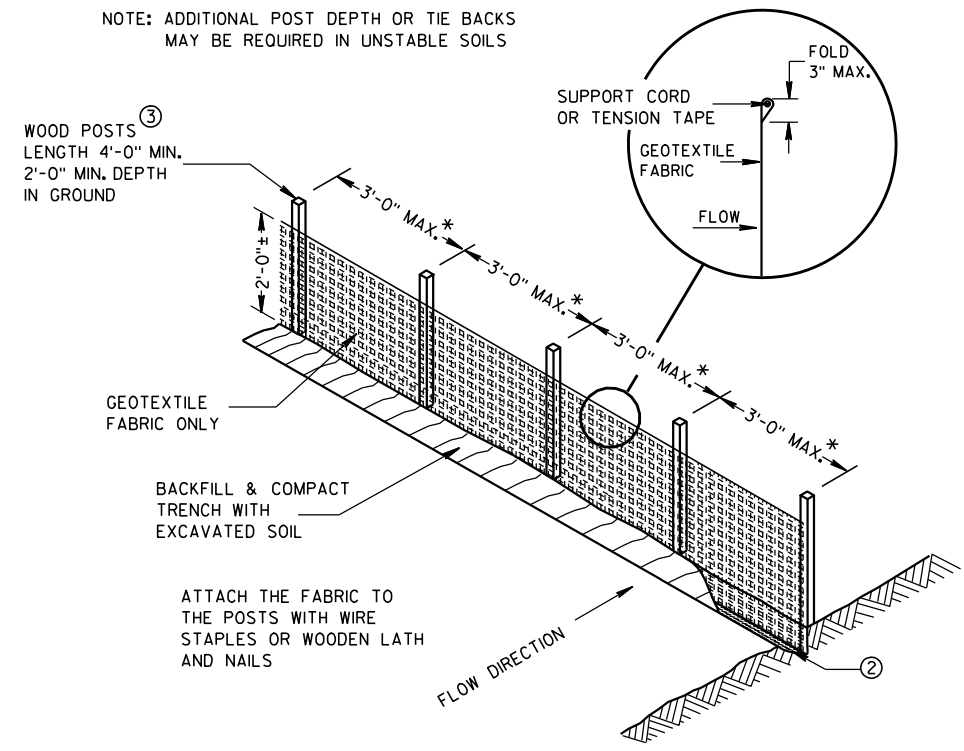
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- 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.



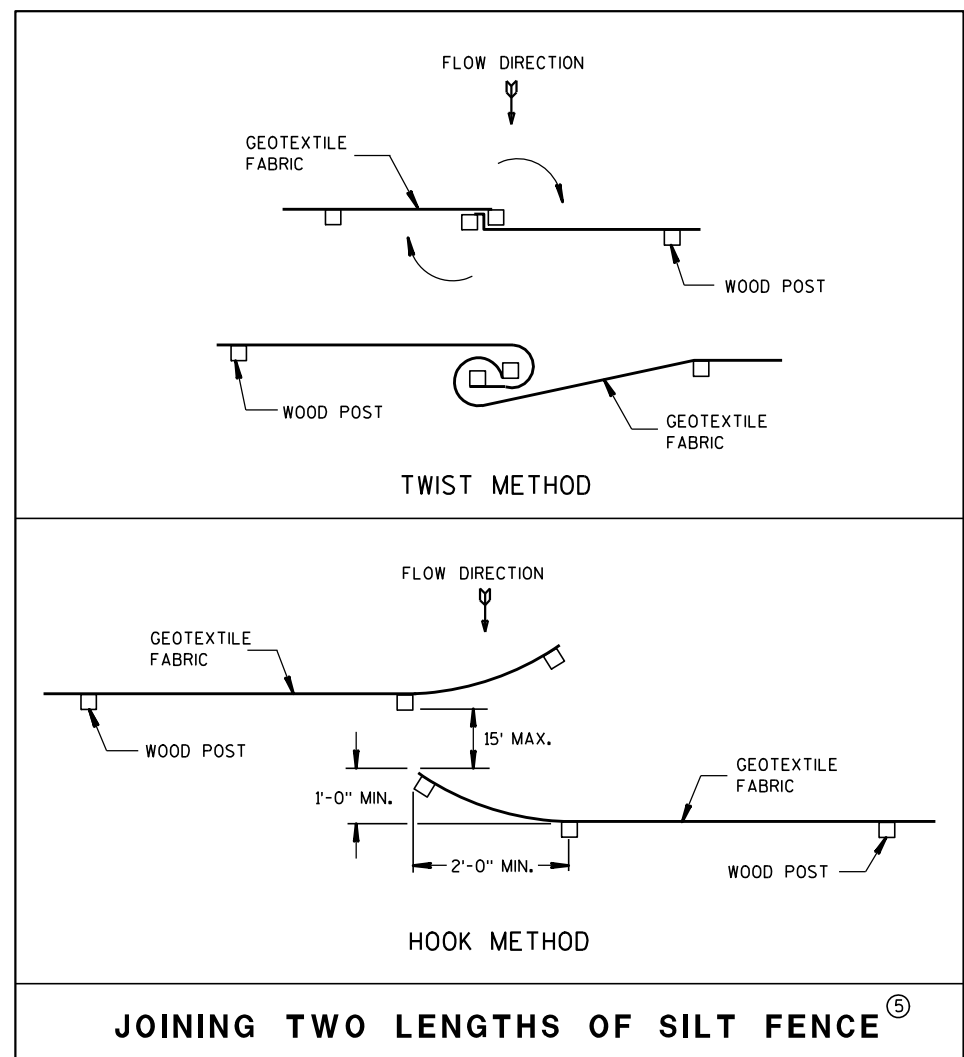
TRENCH DETAIL

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

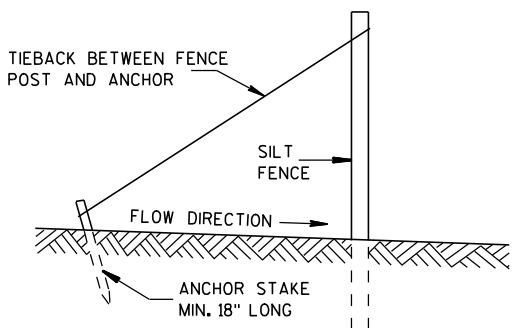


SILT FENCE

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

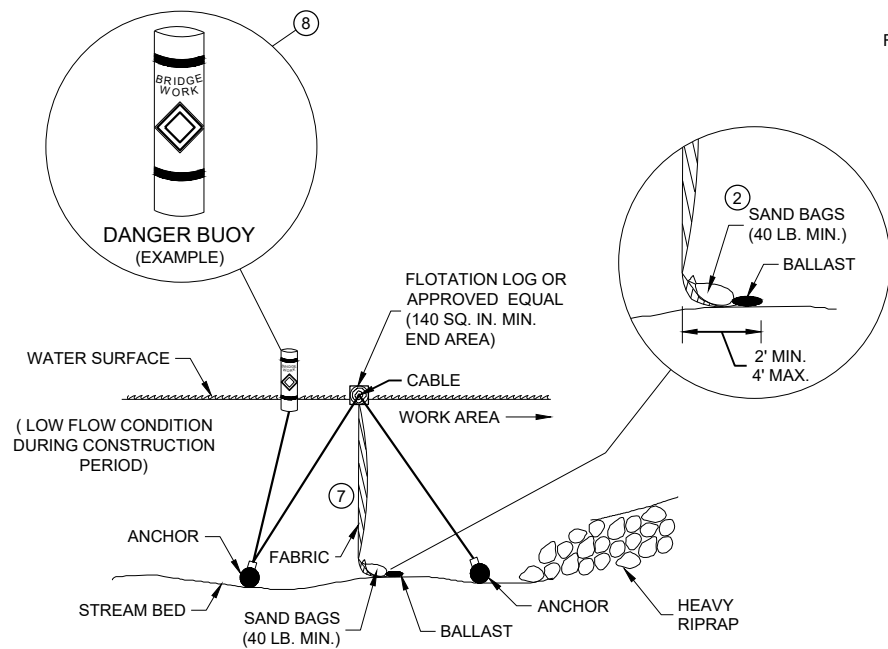


JOINING TWO LENGTHS OF SILT FENCE ⑤



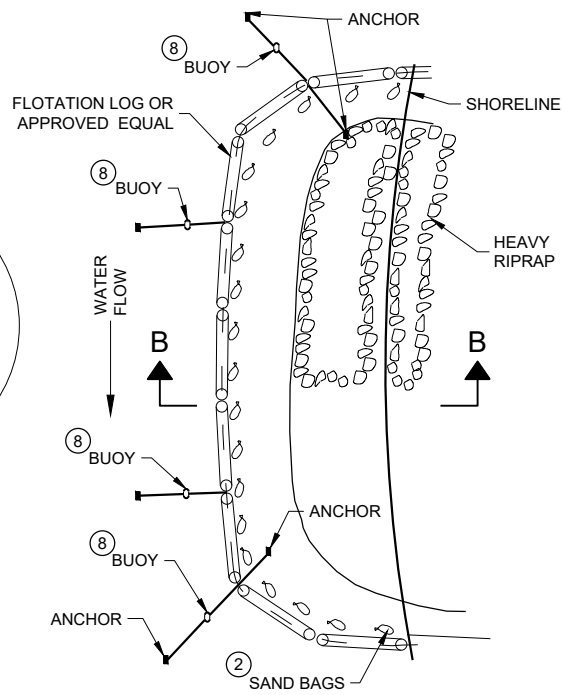
SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

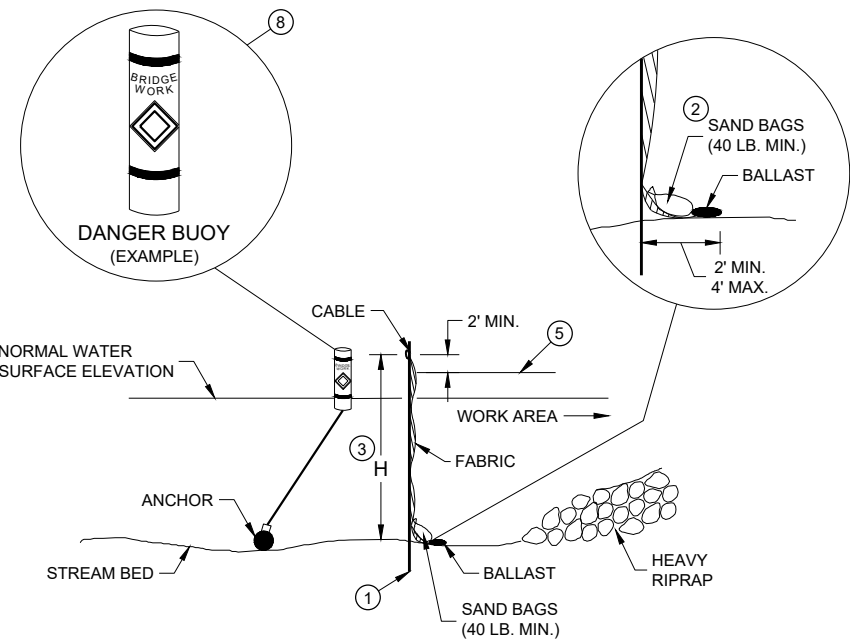


SECTION B - B

**TURBIDITY BARRIER - FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6**

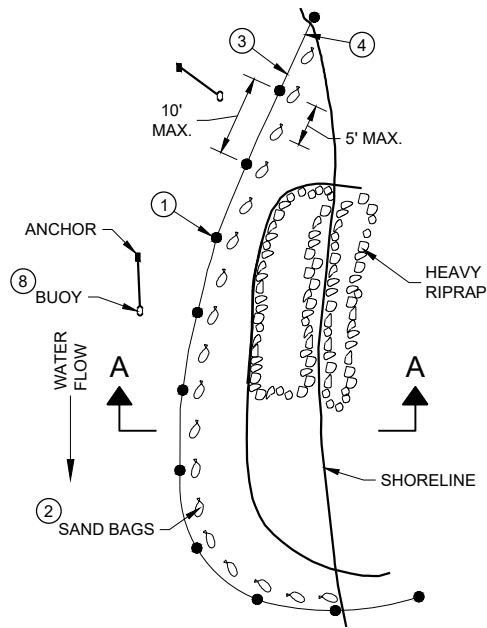


PLAN VIEW



SECTION A - A

TURBIDITY BARRIER - STANDARD POST INSTALLATION



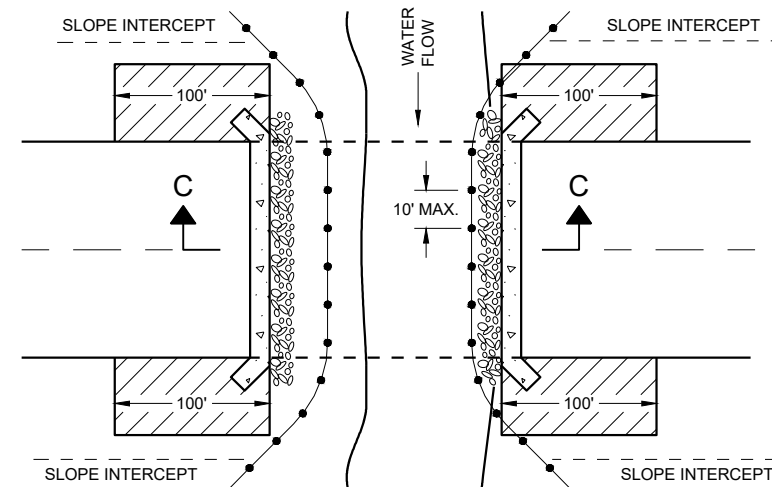
PLAN VIEW

GENERAL NOTES

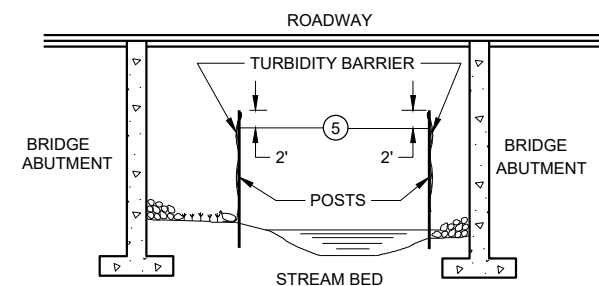
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- ② SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- ③ WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- ④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- ⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- ⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- ⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- ⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

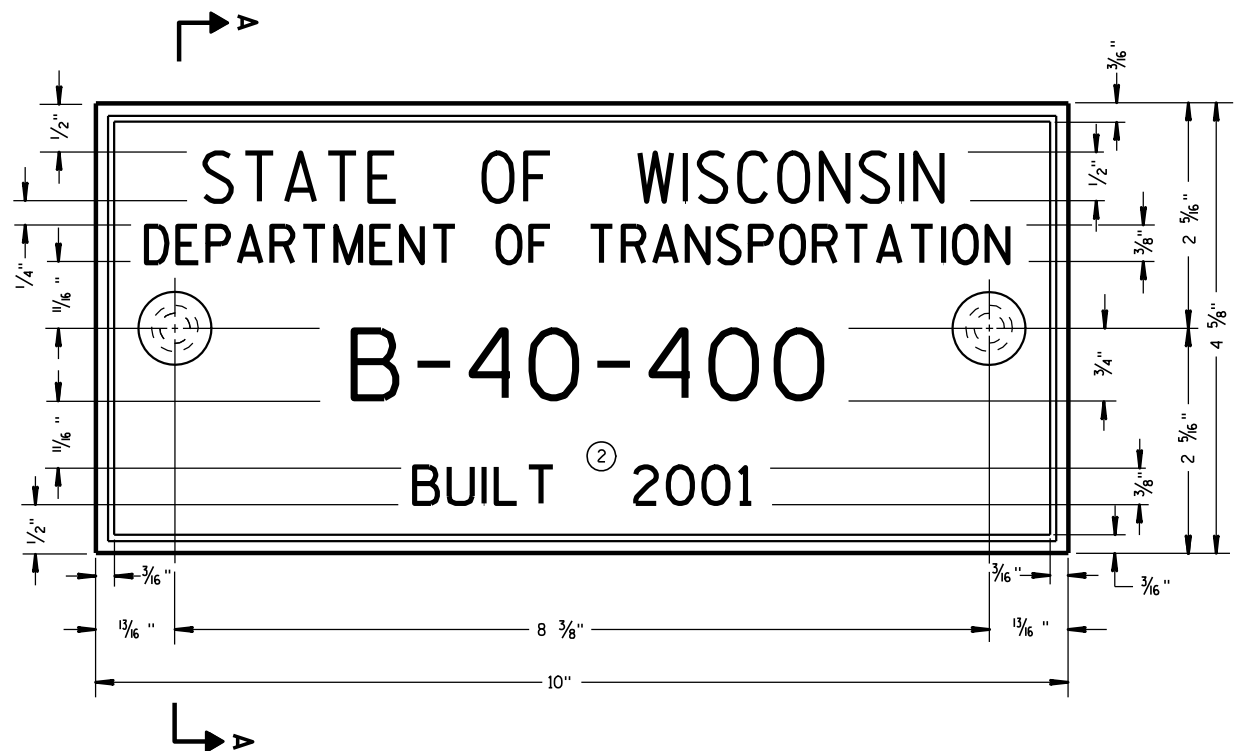
**TURBIDITY BARRIER DETAIL SHOWING
TYPICAL PLACEMENT AT STRUCTURES**

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/4/02 DATE /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

FHWA



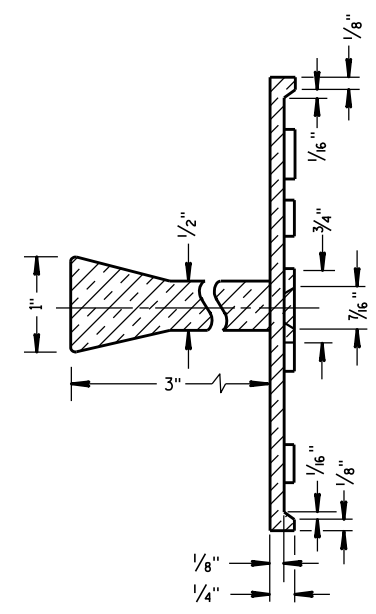
TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

GENERAL NOTES

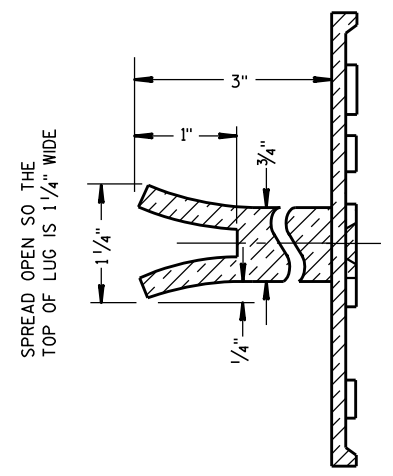
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- ① EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ② REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



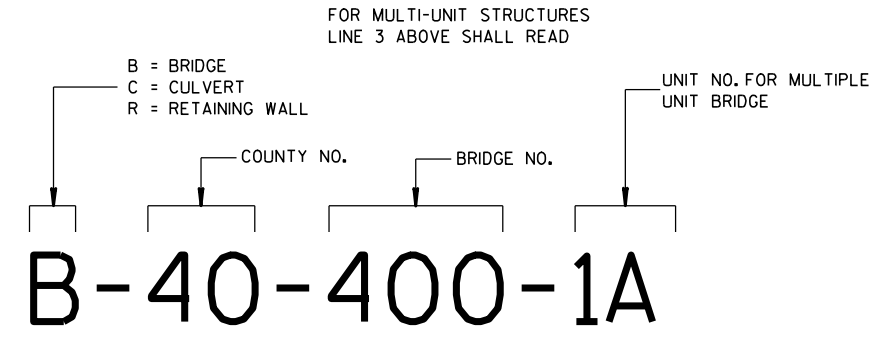
SECTION A-A



ALTERNATE LUG

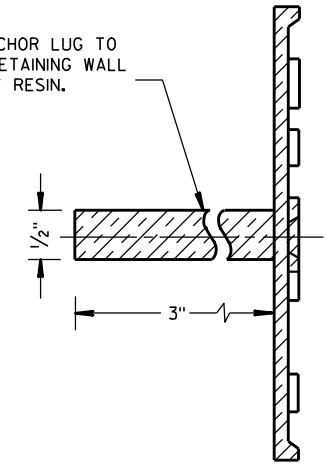
6

6



**NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES**

- ① ADHERE ANCHOR LUG TO PRECAST RETAINING WALL WITH EPOXY RESIN.

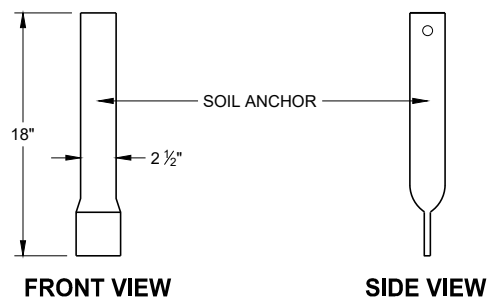
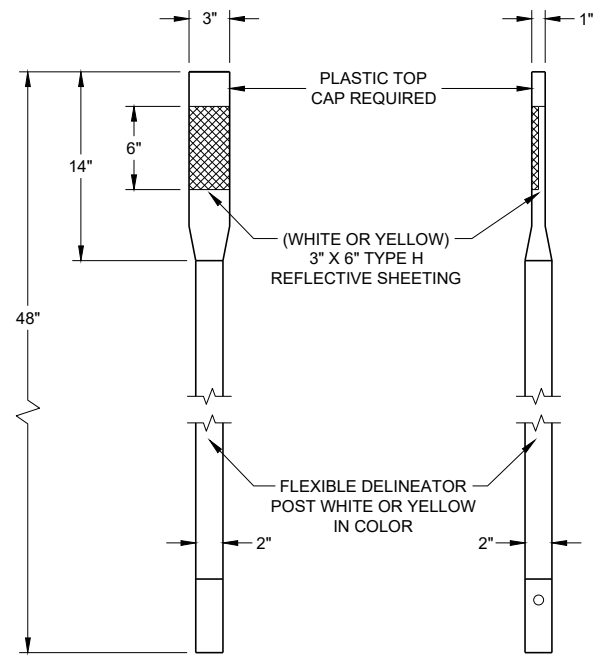


ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

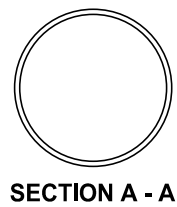
S.D.D. 12 A 3-10

S.D.D. 12 A 3-10

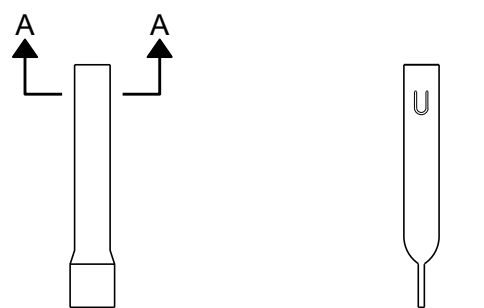
NAME PLATE (STRUCTURES)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 3/26/10	/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER
FHWA	



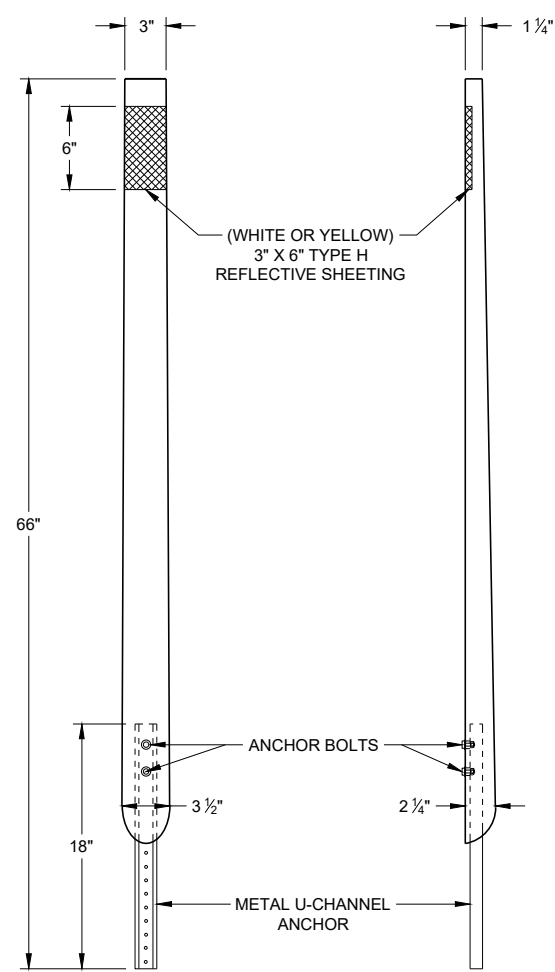
FRONT VIEW SIDE VIEW
ALTERNATE 1



SECTION A - A

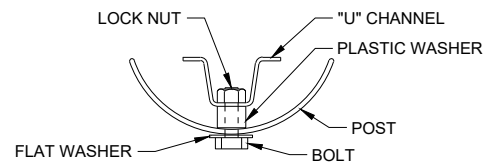


FRONT VIEW SIDE VIEW
ALTERNATE 1

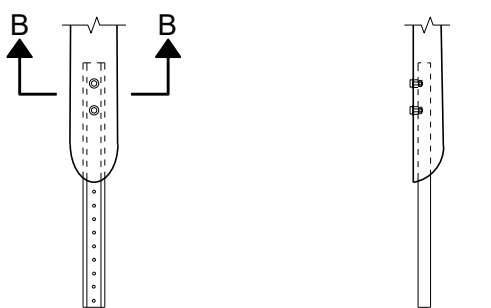


FRONT VIEW SIDE VIEW
ALTERNATE 2

FLEXIBLE DELINEATOR POSTS

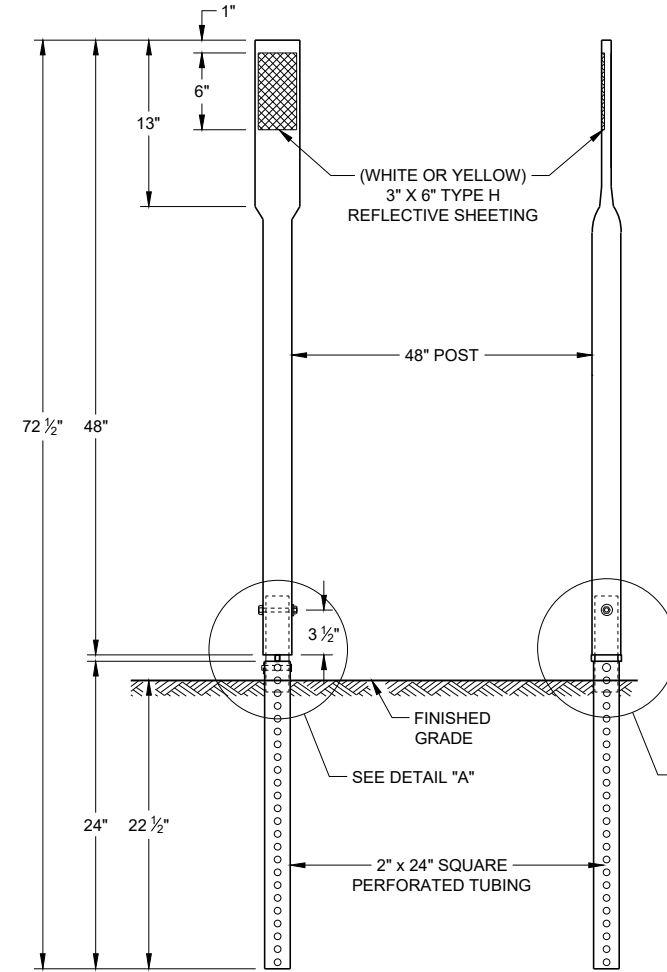


SECTION B - B

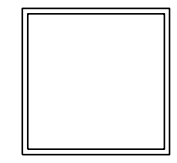


FRONT VIEW SIDE VIEW
ALTERNATE 2

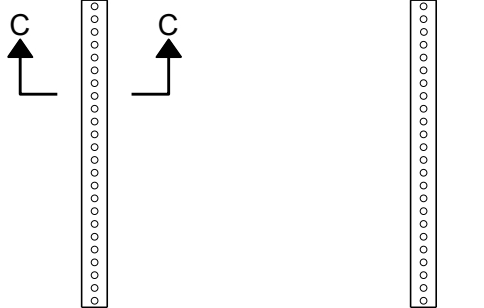
FLEXIBLE MARKER POST ANCHORS



FRONT VIEW SIDE VIEW
ALTERNATE 3



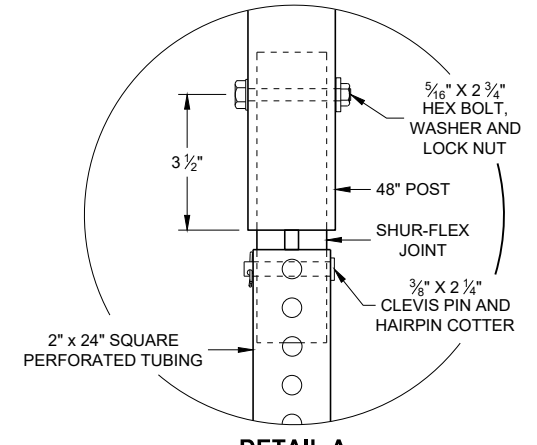
SECTION C - C



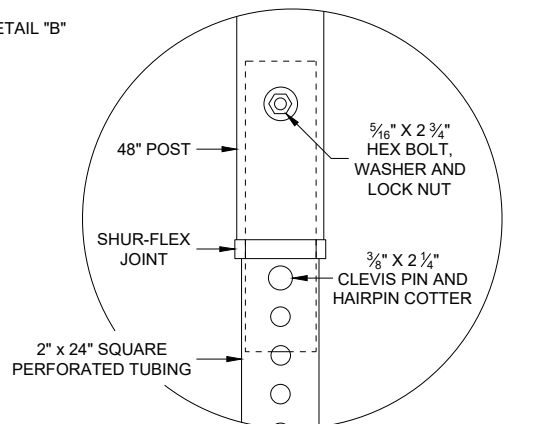
FRONT VIEW SIDE VIEW
ALTERNATE 3

GENERAL NOTES

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



DETAIL A



DETAIL B

REFLECTOR SPACING TABLE

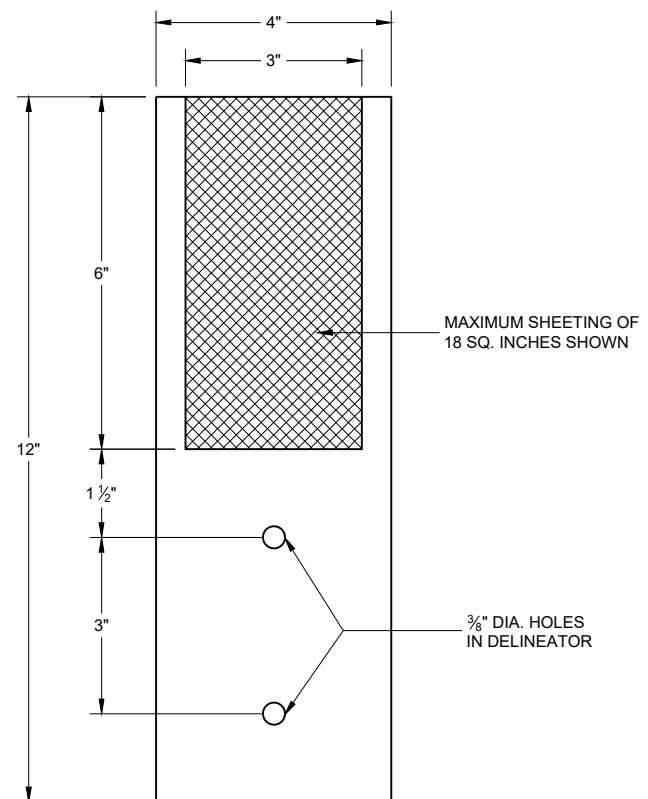
REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

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

FLEXIBLE DELINEATOR POST

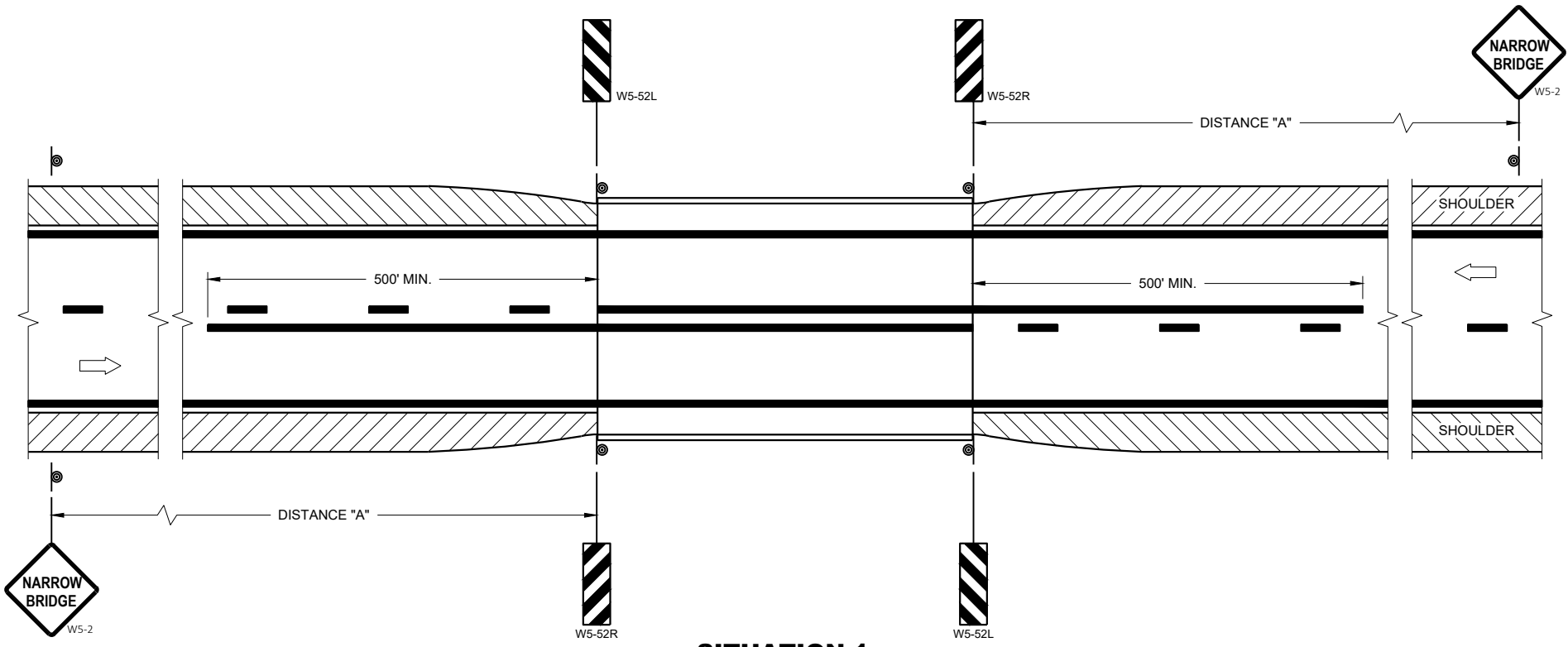
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA

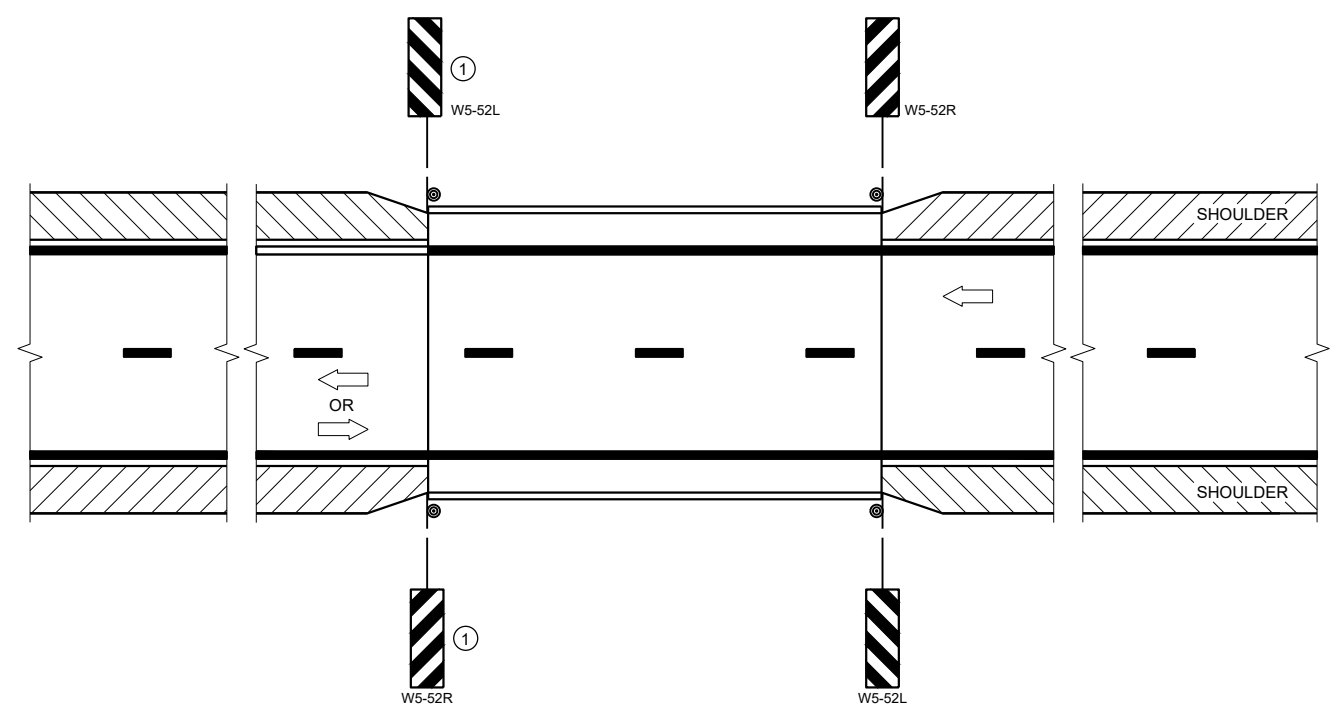


**4" x 12" DELINEATOR
WITH REFLECTIVE SHEETING**

DELINEATOR WITH REFLECTIVE SHEETING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2021 DATE	/s/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
<small>FHWA</small>	



SITUATION 1
 WARRANTING CRITERIA:
 BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



SITUATION 2
 WARRANTING CRITERIA:
 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

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

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

① OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

6

6

SDD 15C06-12

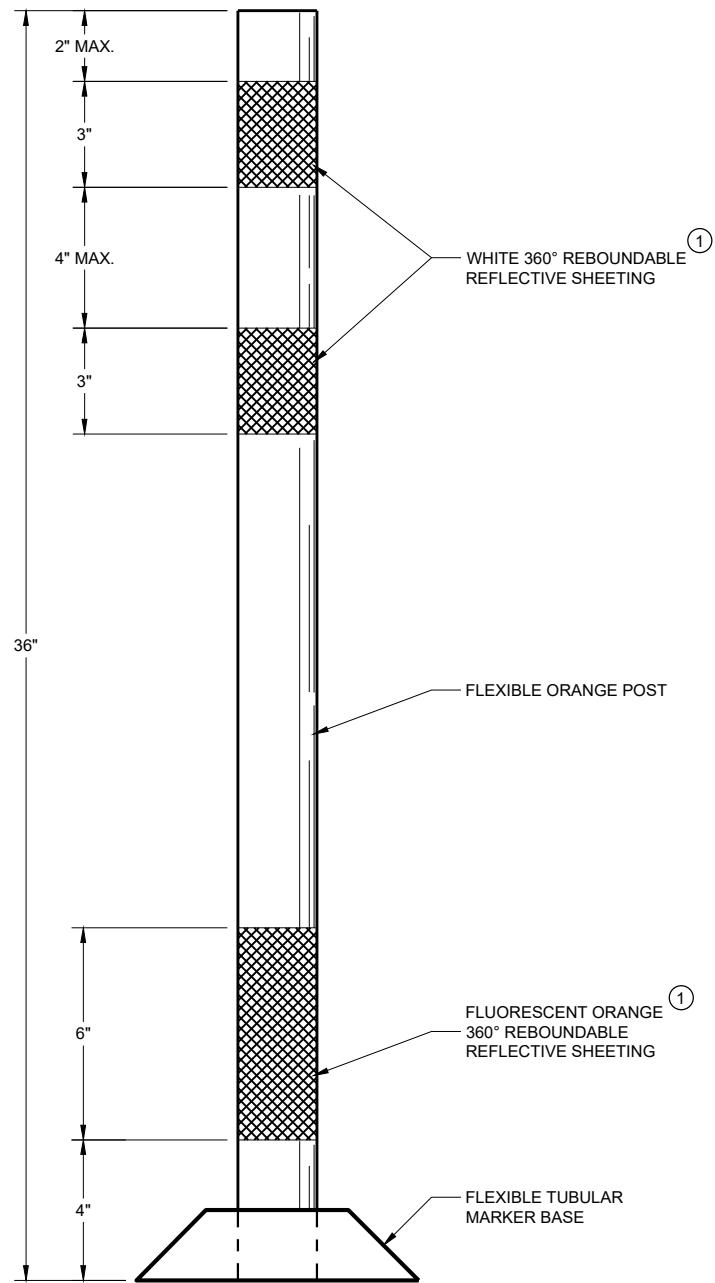
SDD 15C06-12

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

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

FHWA



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

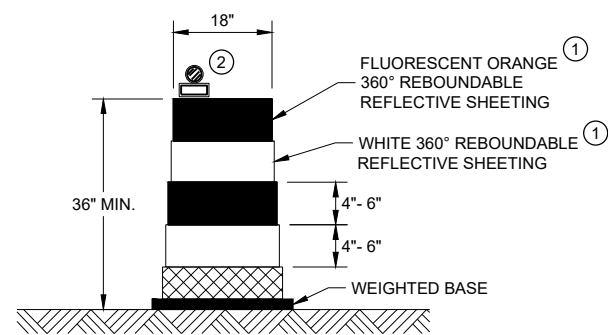
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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

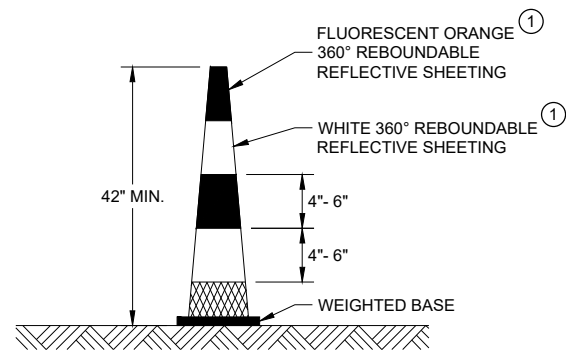
(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2022 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



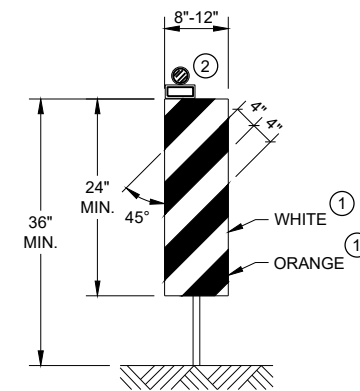
DRUM

BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

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

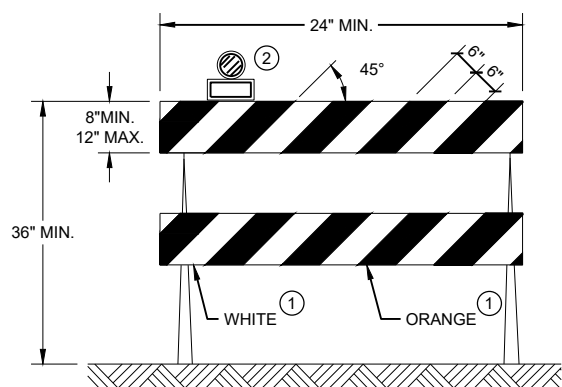


VERTICAL PANEL

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

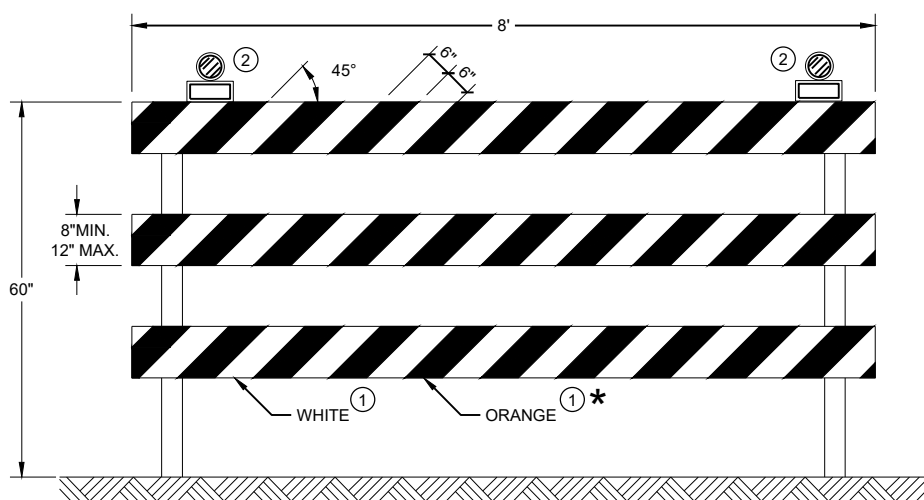
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 November 2022 /S/ Andrew Heidtke
 DATE WORK ZONE ENGINEER
 FHWA

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TEMPORARY DELINEATOR (WHITE, SINGLE DELINEATOR)
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- TEMPORARY RAISED PAVEMENT MARKERS (TWO WAY YELLOW)
- TEMPORARY STEEL PLATE BEAM GUARD AND END TREATMENT
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK AREA

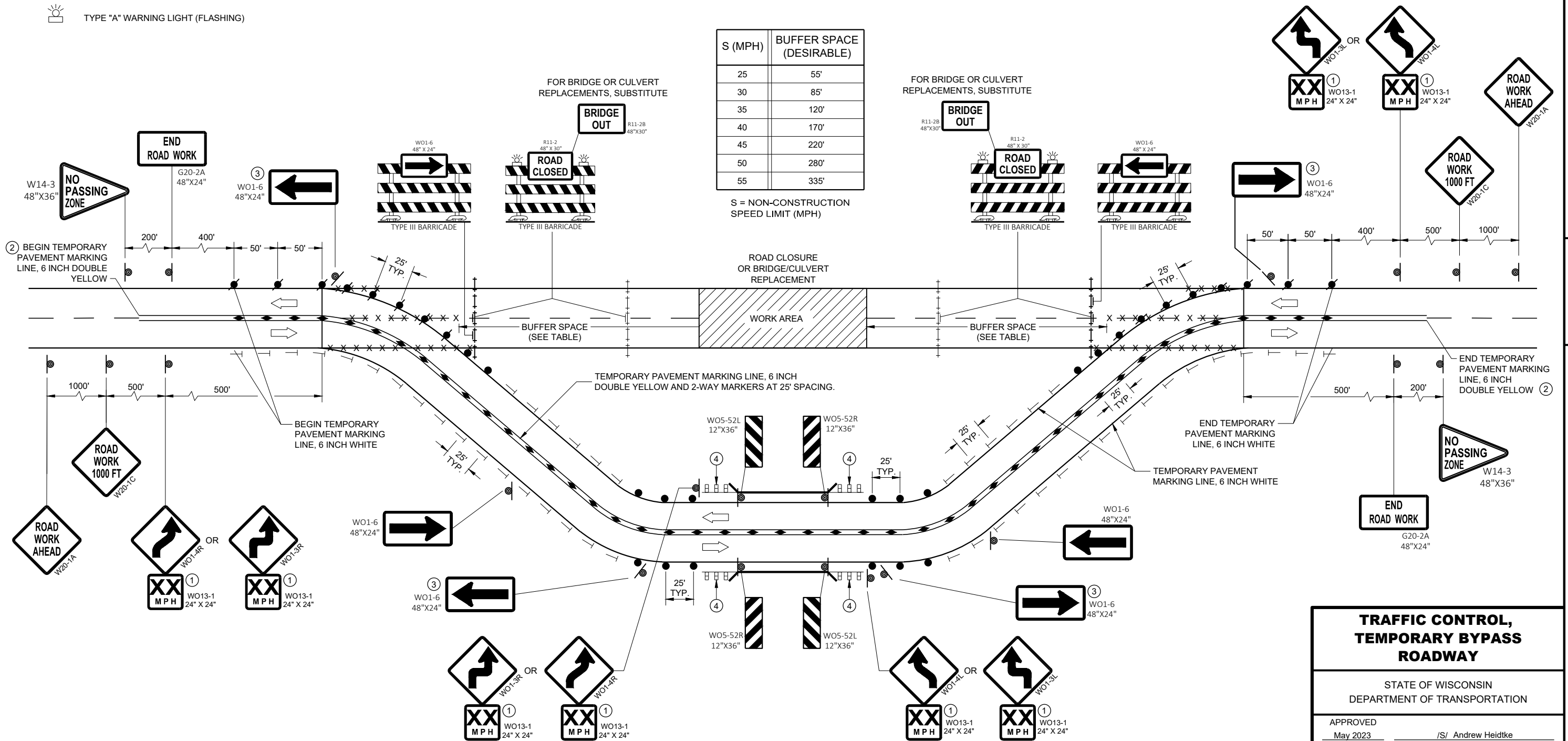
GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.
 "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
 ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
 THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
 THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.
 SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL ON STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.
 EQUIPMENT, VEHICLES, OR MATERIAL SHOULD NOT BE STORED IN BUFFER SPACE.

- ① IF ADVISORY SPEED IS GREATER THAN 30 MPH, USE THE WO1-4 SIGN. IF ADVISORY SPEED IS 30 MPH OR LESS, USE THE WO1-3 SIGN.
- ② WHEN THE DISTANCE TO / FROM THE NEXT CLOSEST NO-PASSING ZONE IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES AS INDICATED IN THE SPECIFICATIONS, THE TWO ZONES SHALL BE CONNECTED.
- ③ OMIT THESE WO1-6 SIGNS IF THE ADVISORY SPEED OF THE CURVE IS GREATER THAN 30 MPH.
- ④ TEMPORARY STEEL PLATE BEAM GUARD AND END TREATMENT WHEN INCLUDED IN THE CONTRACT. FOR LAYOUT, SEE DETAILS ELSEWHERE IN THE PLAN.

S (MPH)	BUFFER SPACE (DESIRABLE)
25	55'
30	85'
35	120'
40	170'
45	220'
50	280'
55	335'

S = NON-CONSTRUCTION SPEED LIMIT (MPH)



**TRAFFIC CONTROL,
TEMPORARY BYPASS
ROADWAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED _____
 May 2023 _____ /S/ Andrew Heidtke
 DATE _____ WORK ZONE ENGINEER

FHWA

6

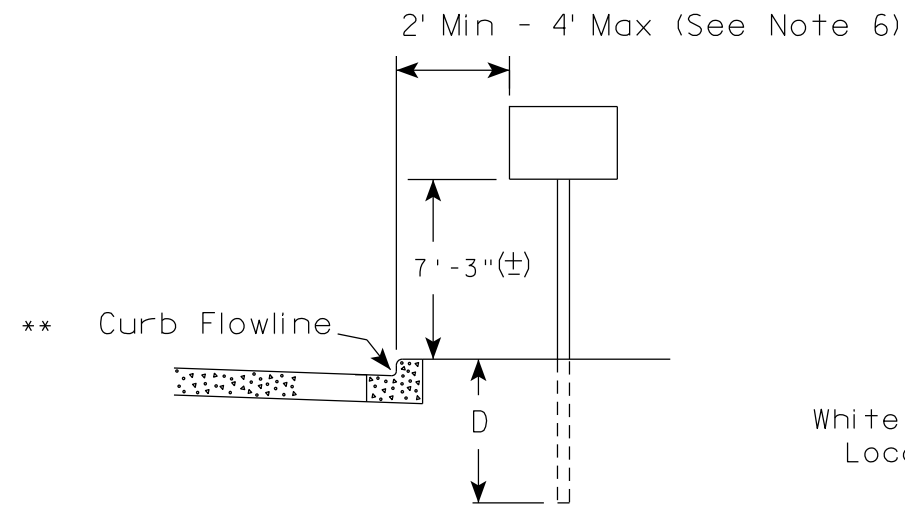
6

SDD 15D31-05

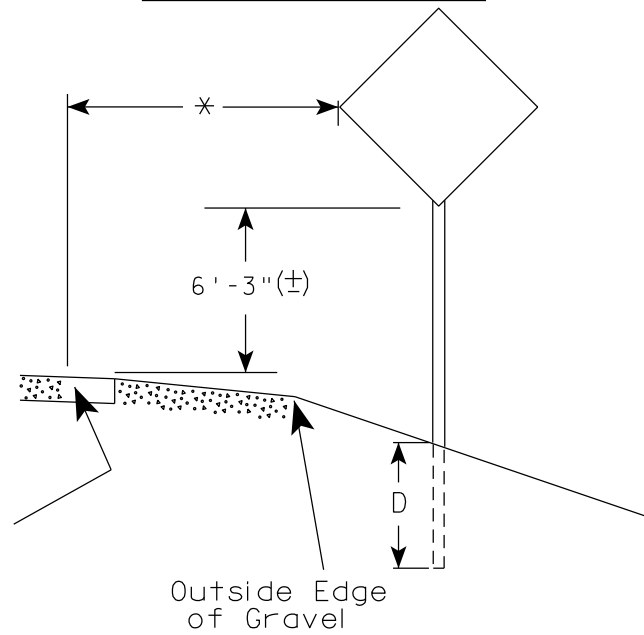
SDD 15D31-05

URBAN AREA

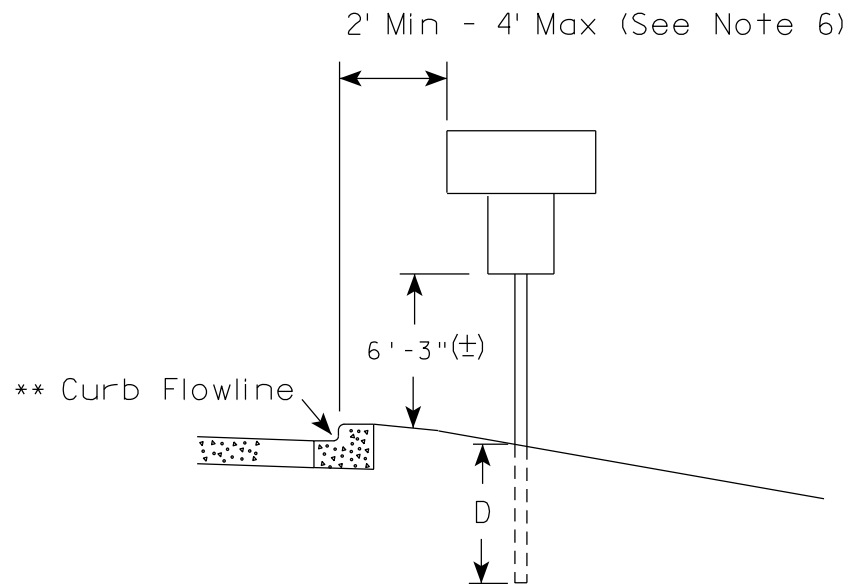
RURAL AREA (See Note 2)



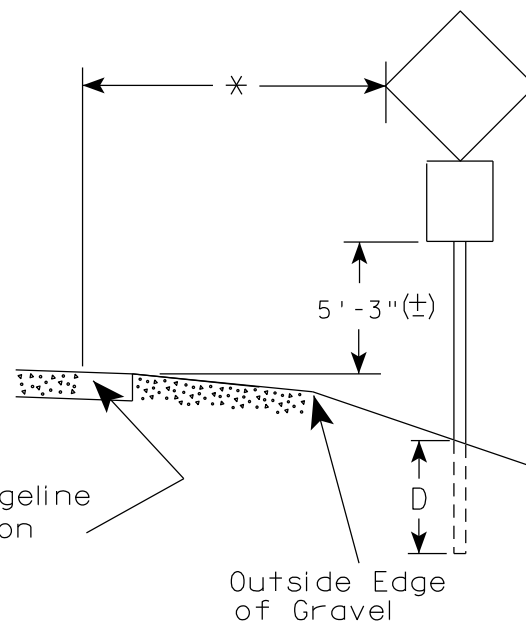
White Edgeline Location



Outside Edge of Gravel



White Edgeline Location



Outside Edge of Gravel

POST EMBEDMENT DEPTH

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

GENERAL NOTES

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

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

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22



ELEVATION VIEW

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

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



ELEVATION VIEW

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



PLAN VIEW

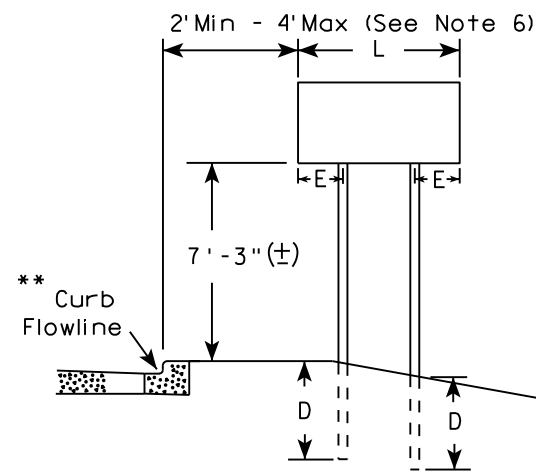
FOR NEW CONCRETE/ ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B	
<small>WISCONSIN DEPT OF TRANSPORTATION</small>	
APPROVED <i>Matthew R. Rauch</i> <small>for State Traffic Engineer</small>	
<small>DATE 1/27/14</small>	<small>PLATE NO. A4-3B.1</small>

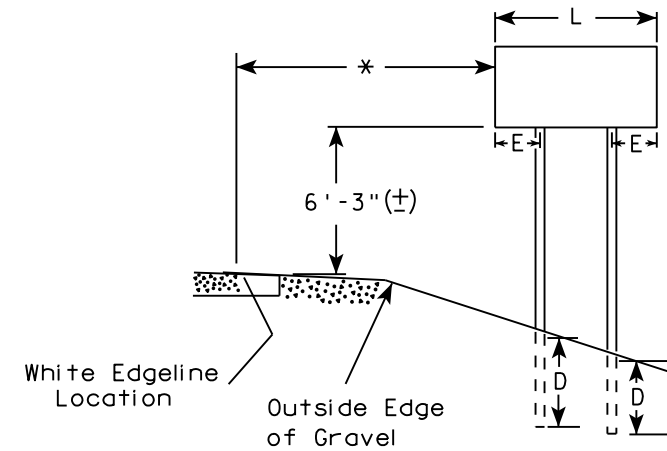
GENERAL NOTES

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

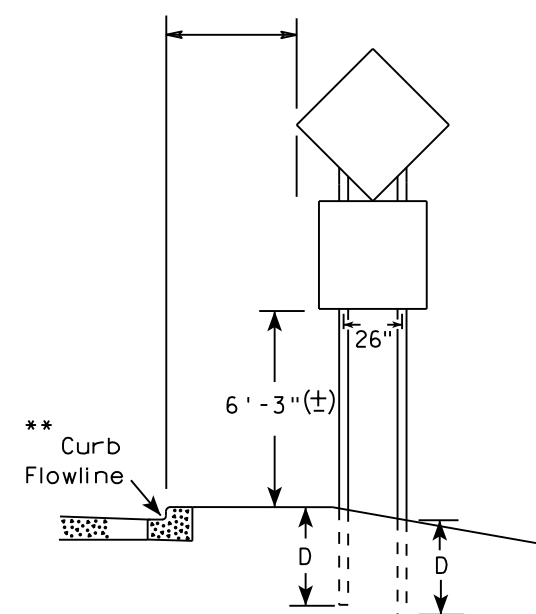
URBAN AREA



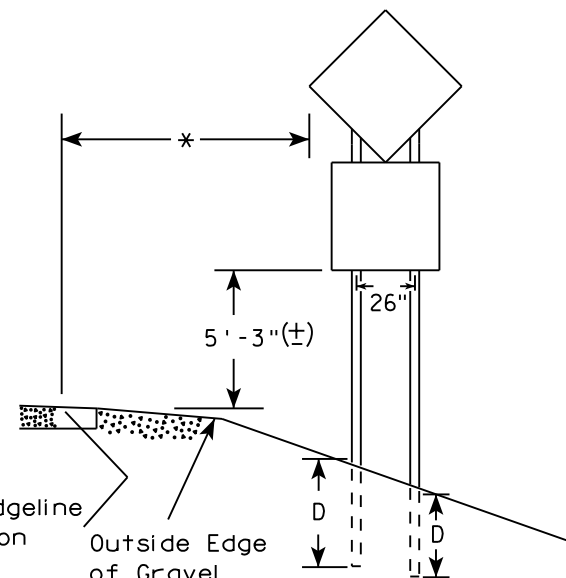
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

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

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

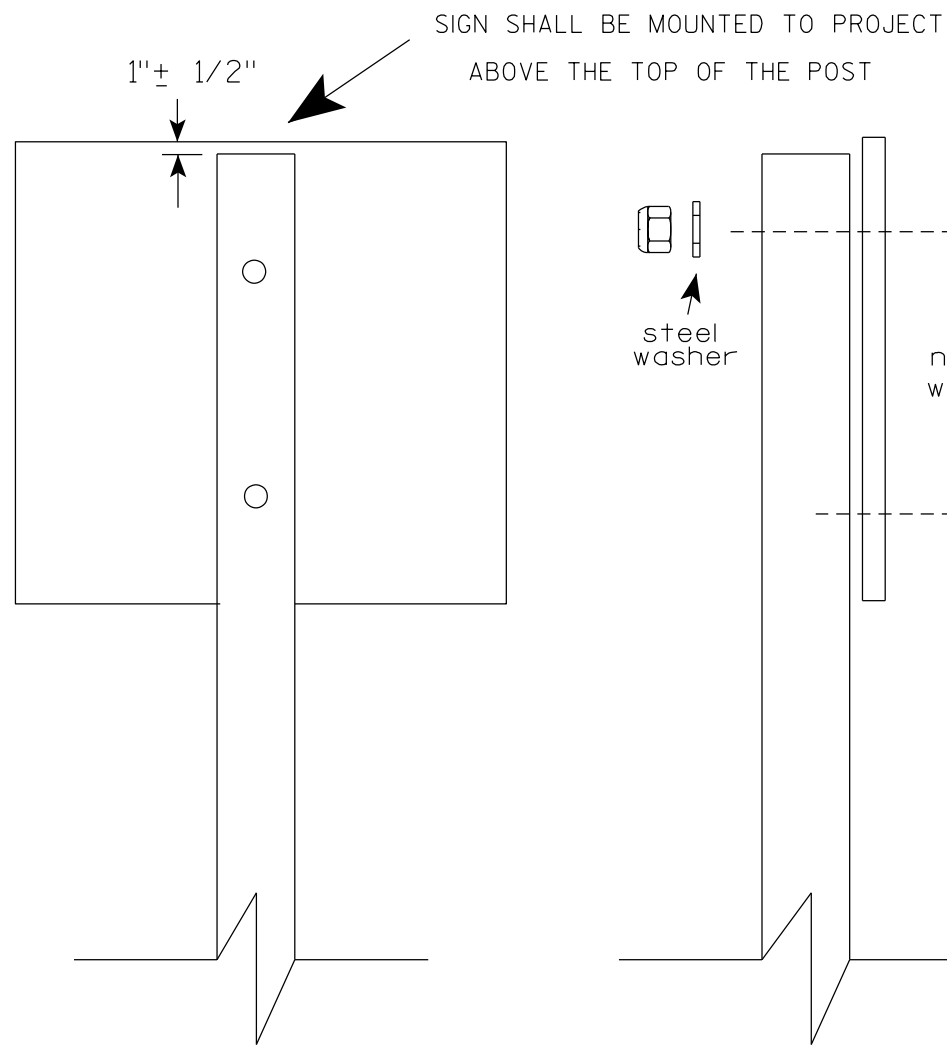
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION
 APPROVED *Matthew R. Rauch*
 For State Traffic Engineer
 DATE 8/21/17 PLATE NO. A4-4.15



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

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS
TO POSTS

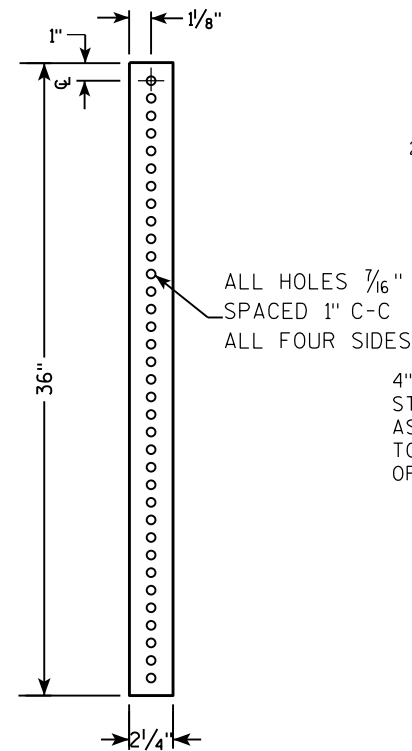
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
For State Traffic Engineer

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

**TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM**

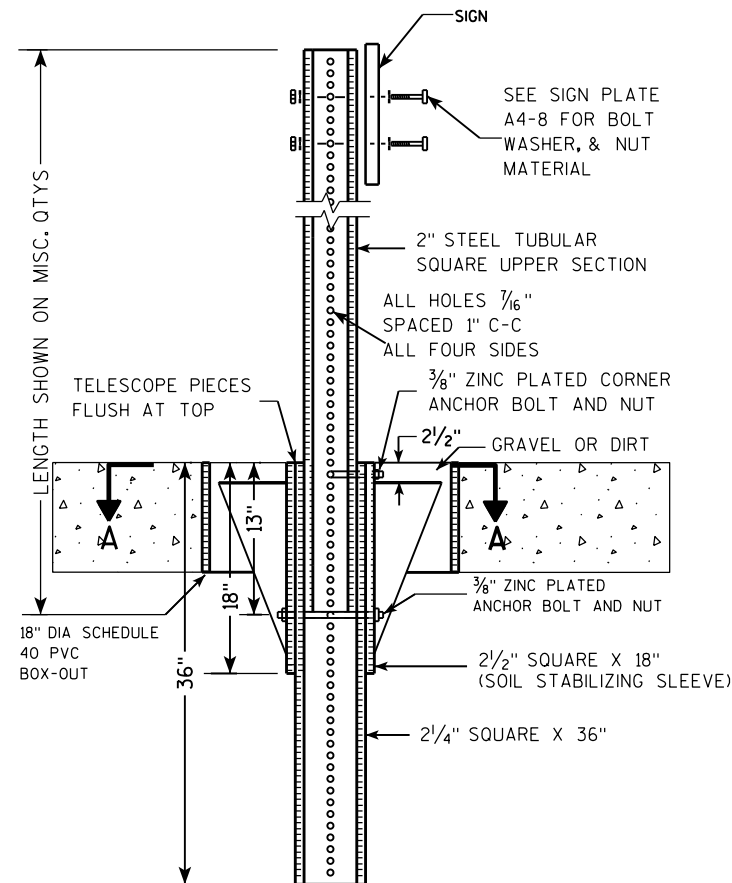
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



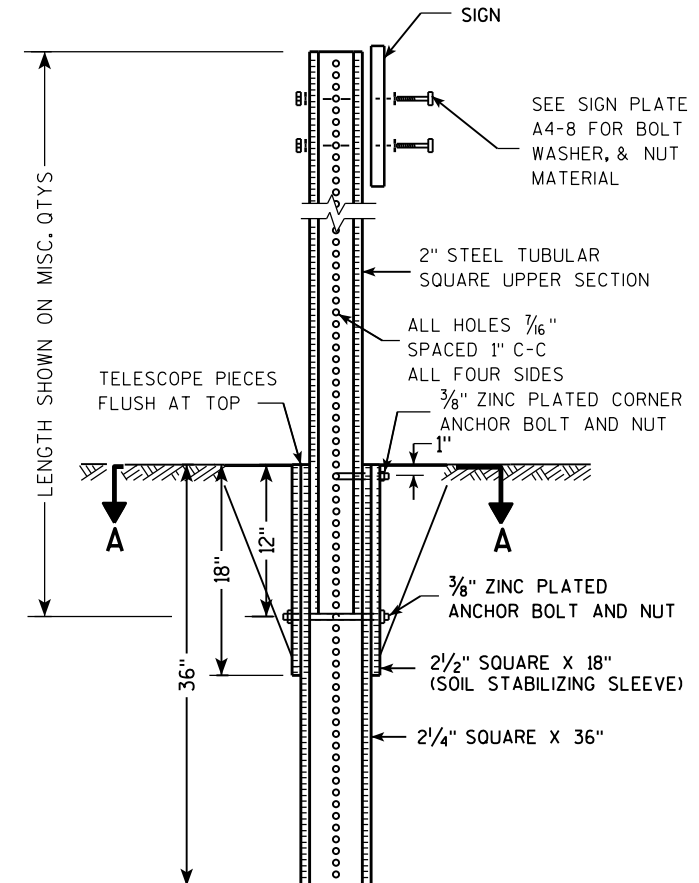
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH



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



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



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

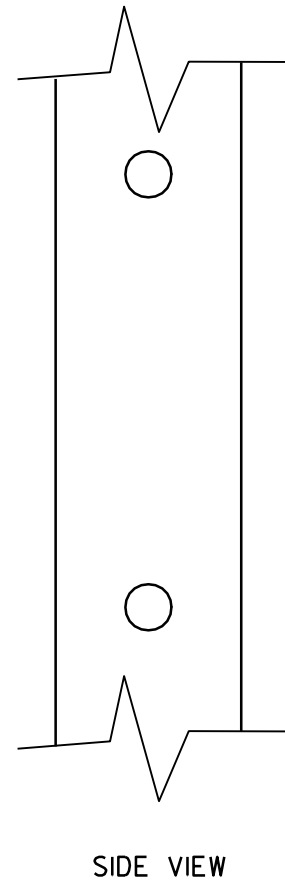
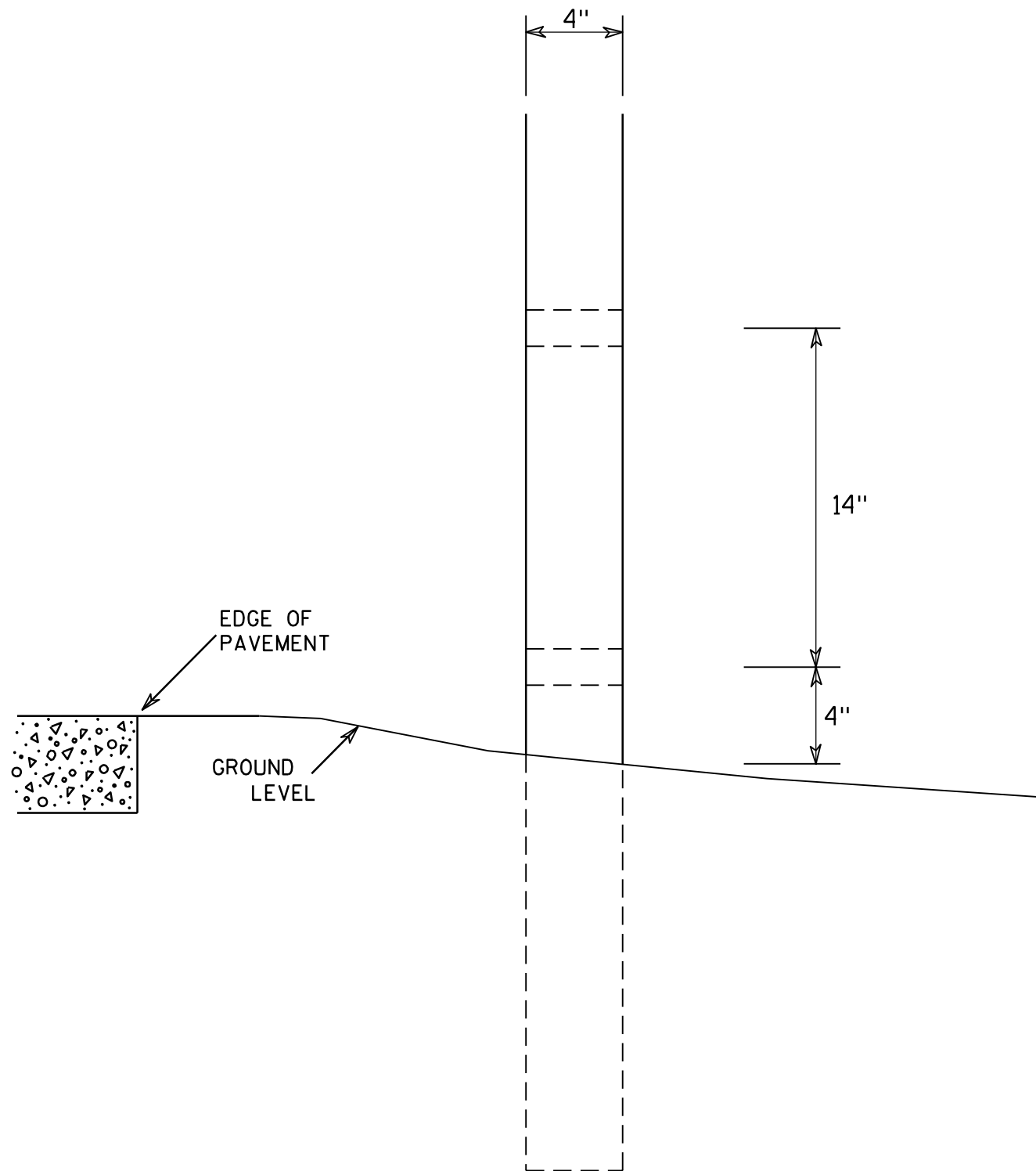
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**TUBULAR STEEL
SIGN POST
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9



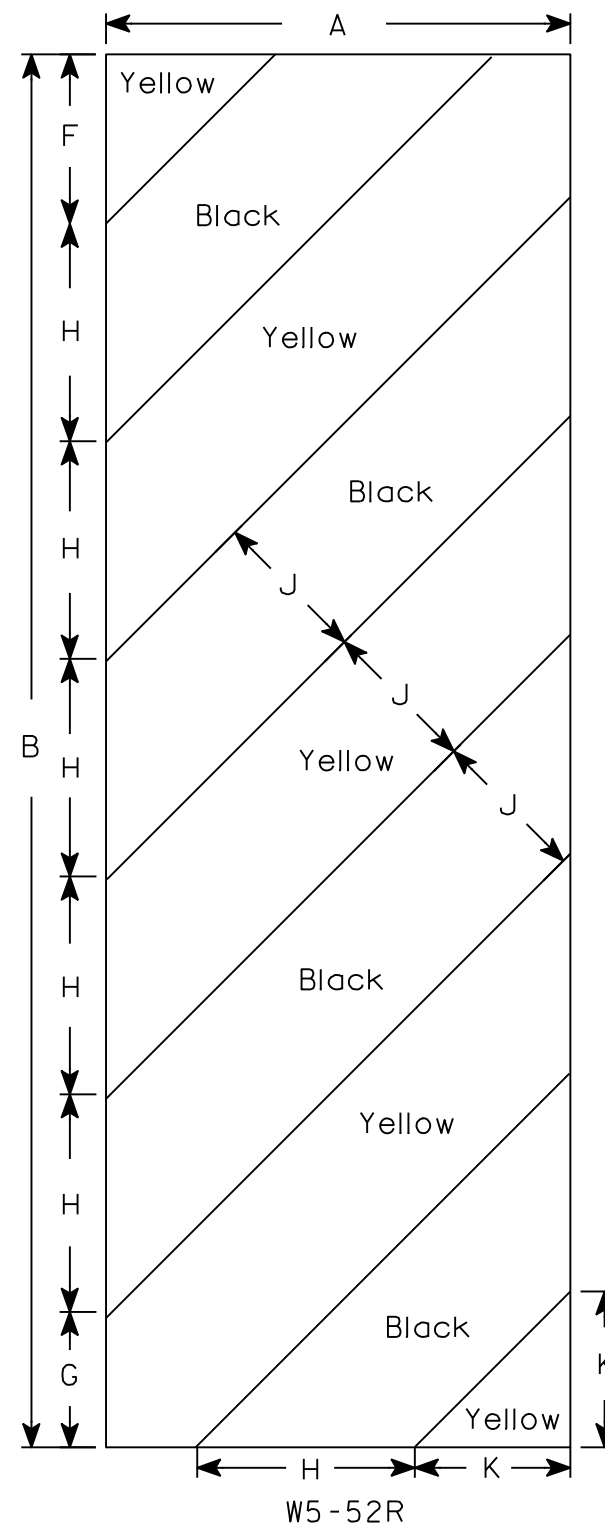
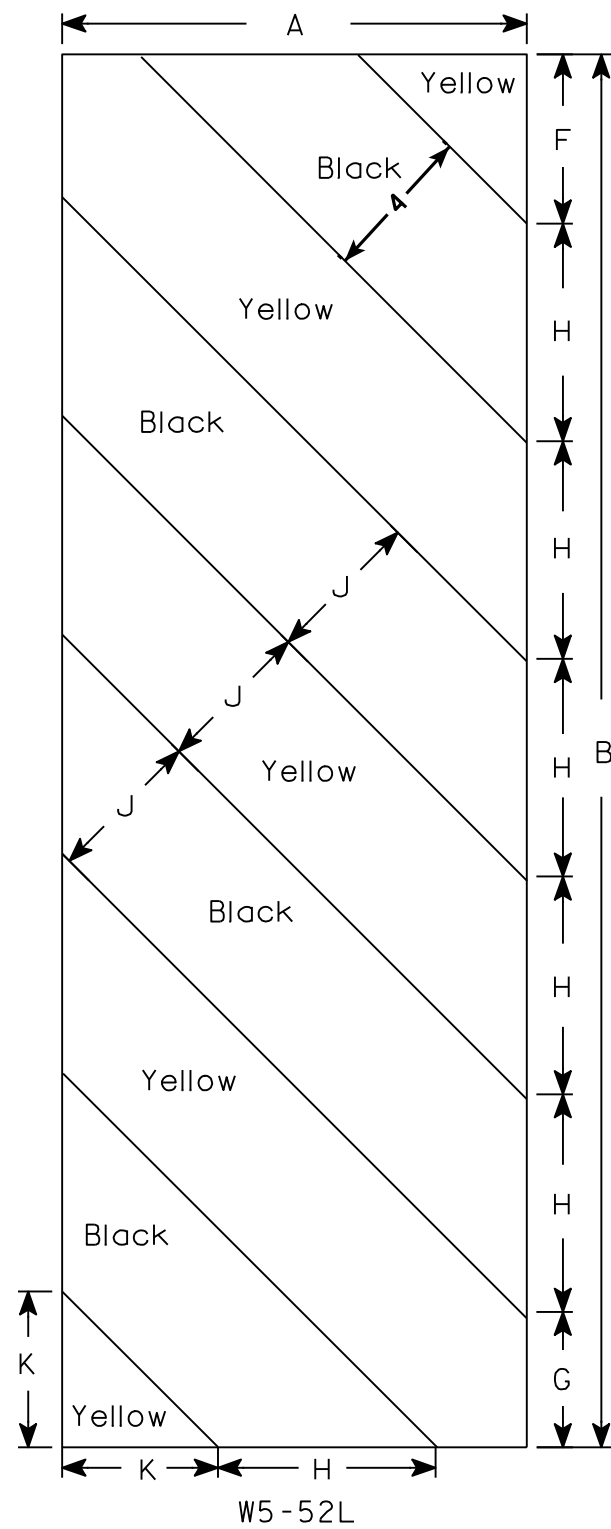
GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS	
<i>WISCONSIN DEPT OF TRANSPORTATION</i>	
APPROVED	<i>Chester J Spang</i> for State Traffic Engineer
DATE <u>3/27/97</u>	PLATE NO. <u>A4-11.2</u>



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

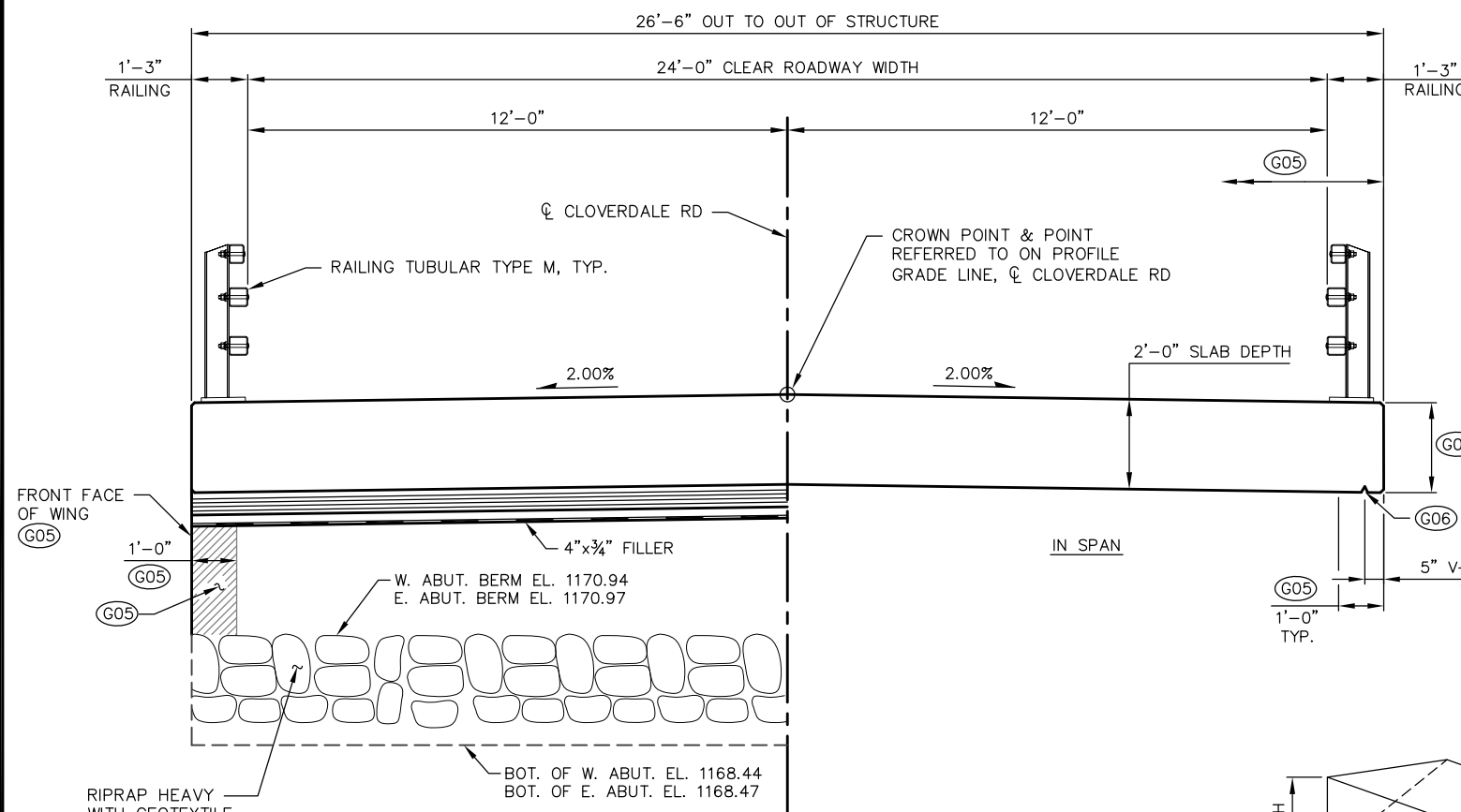
STANDARD SIGN
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

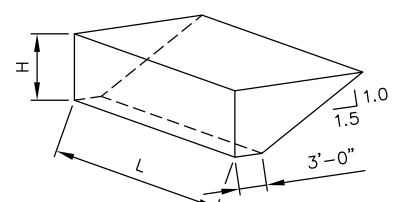
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E



CROSS SECTION THRU ROADWAY
(LOOKING EAST)



ABUTMENT BACKFILL DIAGRAM

- L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
- H = AVERAGE ABUTMENT FILL HEIGHT (FT)
- EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
- $V_{CF} = (L)(3.0')(H) + (L)(0.5')(1.5H)(H)$
- $V_{CY} = V_{CF}(EF)/27$
- $V_{TON} = V_{CY}(2.0)$

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE "GENERAL PLAN" SHEET AND THE ABUTMENT SHEETS.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WING FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCLUDED WITH "EXCAVATION FOR STRUCTURES BRIDGES B-10-265".

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-10-265" SHALL BE THE EXISTING GROUND LINE.

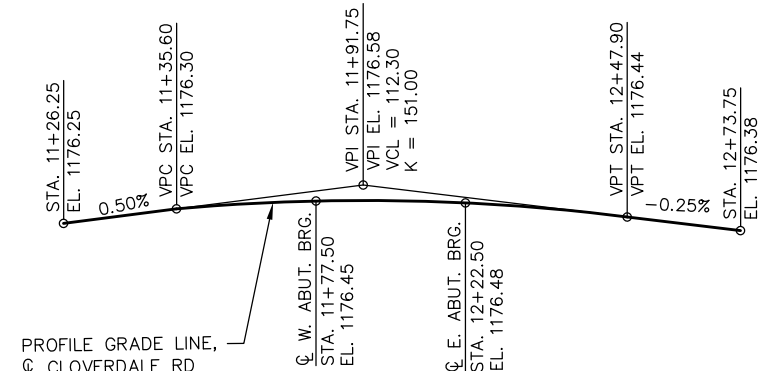
AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

THE EXISTING STRUCTURE (P-10-912) IS A SINGLE SPAN TIMBER STRINGER WITH TIMBER DECK BRIDGE WITH AN OVERALL LENGTH OF 24.5-FT AND A DECK WIDTH OF 21.8-FT AND IS TO BE REMOVED PER BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-10-912".



PROFILE GRADE LINE, CLOVERDALE RD

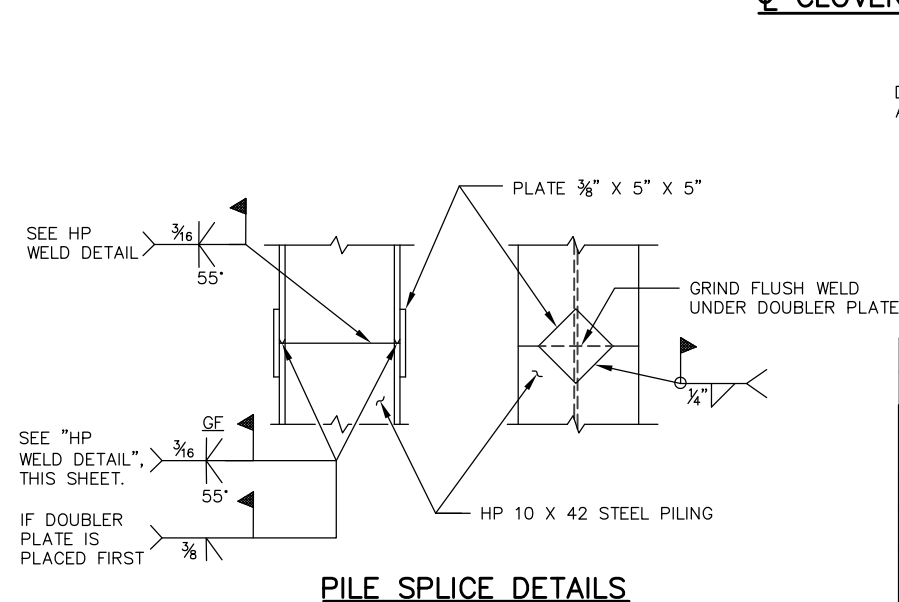
NOTES

- G05 COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB, INCLUDING THE SLAB EDGES AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE FRONT FACE OF THE ABUTMENTS TO 1'-0" PAST THE EDGE OF SLAB.
- G06 3/4" V-GROOVE REQ'D. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT.

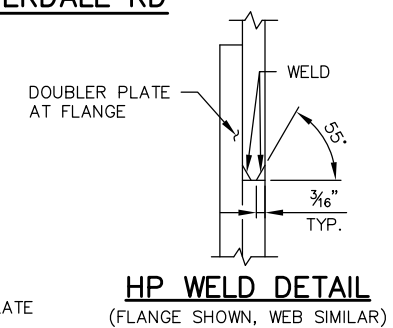
TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-10-912	EACH	---	---	---	1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-10-265	EACH	---	---	---	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	110	110	---	220
502.0100	CONCRETE MASONRY BRIDGES	CY	29.2	29.2	97.3	156
502.3200	PROTECTIVE SURFACE TREATMENT	SY	10	10	172	192
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,625	1,625	---	3,250
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,505	1,505	19,010	22,020
* 506.0105	STRUCTURAL CARBON STEEL	LB	---	---	450	450
513.4061	RAILING TUBULAR TYPE M	LF	25	25	95	145
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9	---	18
526.0101	TEMPORARY STRUCTURE STA. 21+65 "T"	EACH	---	---	---	1
550.1100	PIILING STEEL HP 10-INCH X 42 LB	LF	225	225	---	450
606.0300	RIPRAP HEAVY	CY	45	39	---	84
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	85	85	---	170
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	20	20	---	40
645.0120	GEOTEXTILE TYPE HR	SY	79	79	---	158
(NON-BID ITEM)	FILLER	SIZE				1/2" & 3/4"

* REQUIRED FOR TWO PROTECTION ANGLES RUNNING THE WIDTH OF THE BRIDGE SLAB AT ABUTMENTS (INSIDE TO INSIDE FACE OF WINGS).



PILE SPLICE DETAILS



HP WELD DETAIL
(FLANGE SHOWN, WEB SIMILAR)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-265			
DRAWN BY: JDO		PLANS OK'D: ACK	
CROSS SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 10

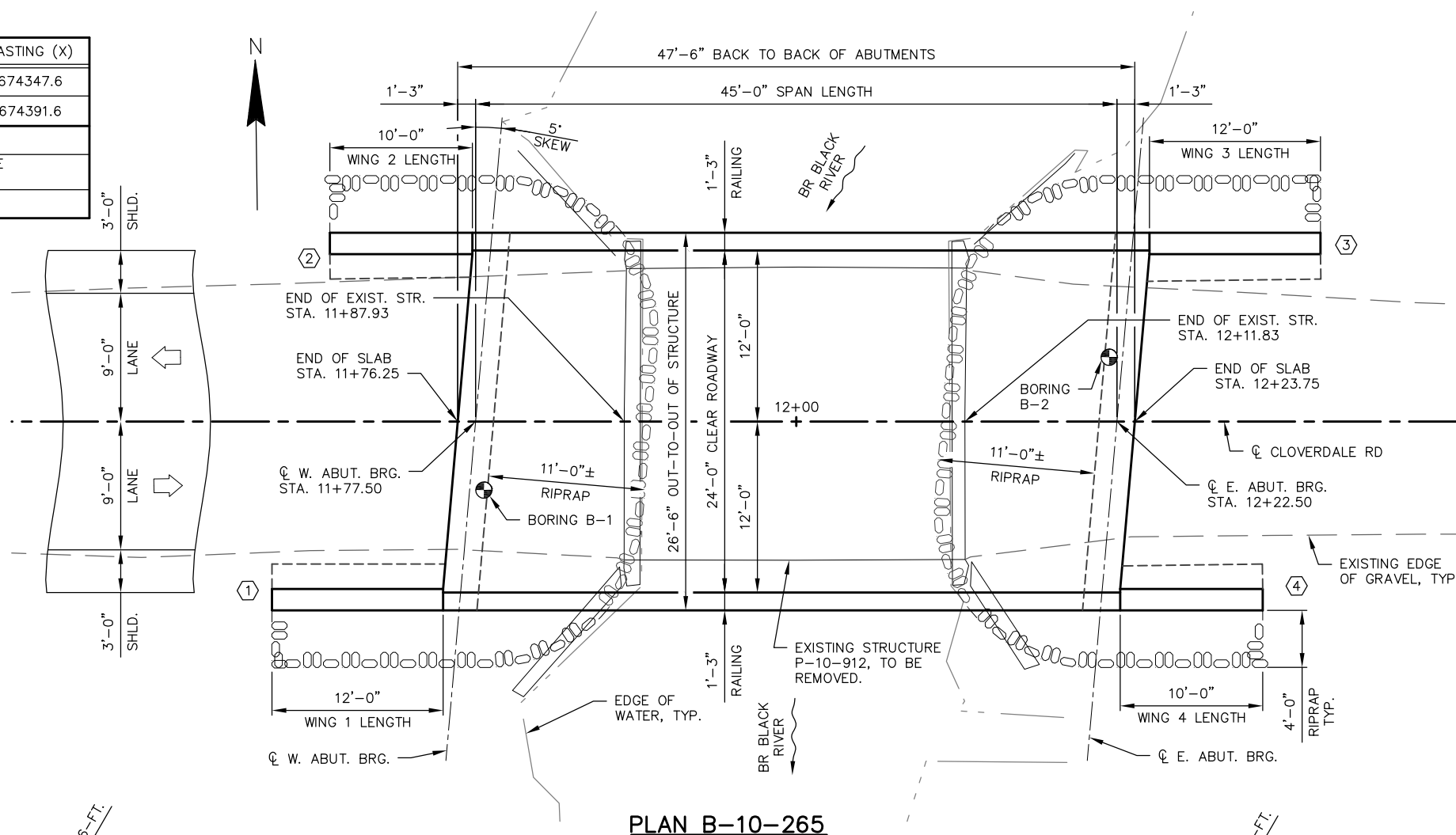
B-10-265 BORINGS

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
BORING B-1	5/4/2023	463668.7	674347.6
BORING B-2	5/4/2023	463677.5	674391.6

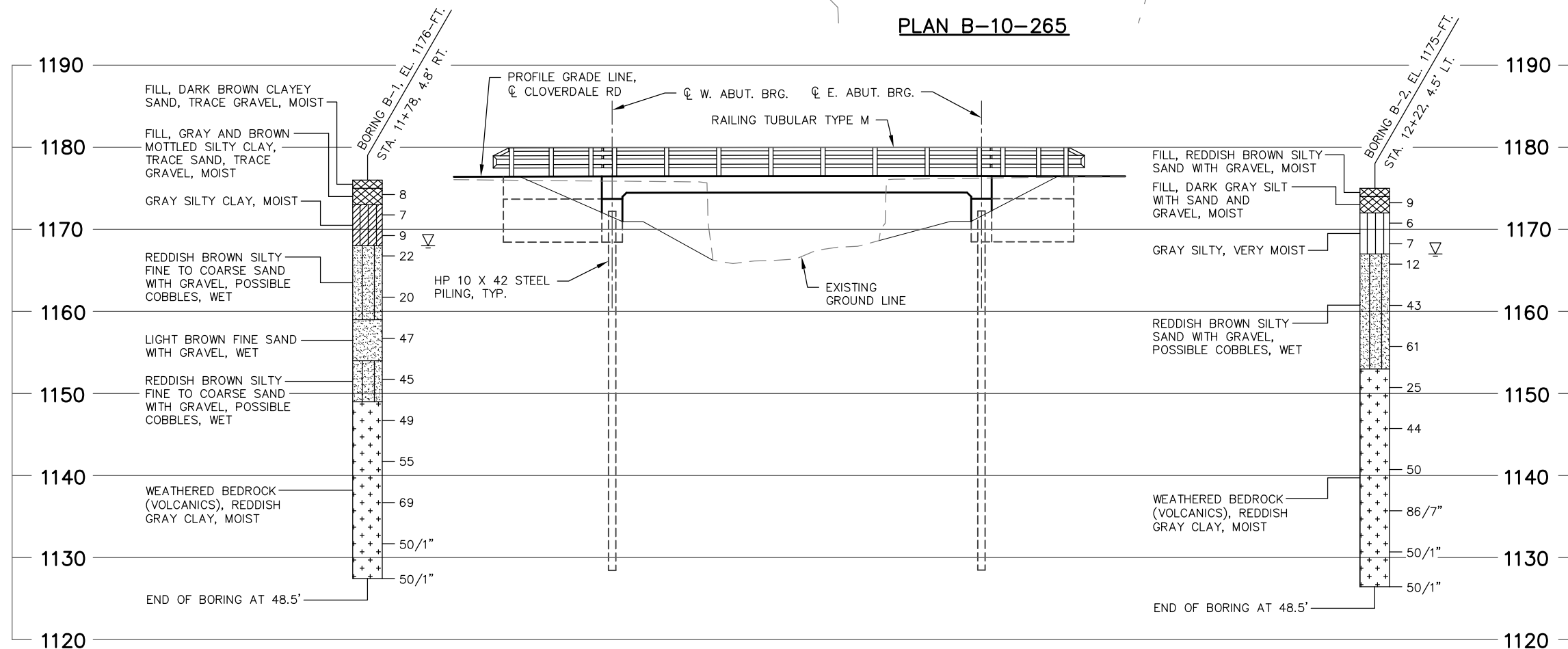
BORINGS COMPLETED BY: GDC
 SUBSURFACE INVESTIGATION REPORT: PROFESSIONAL SERVICE INDUSTRIES, INC.
 ALL COORDINATES REFERENCED TO WISCRS, CLARK COUNTY

NOTE

① INDICATES WING NUMBER



PLAN B-10-265



8

8

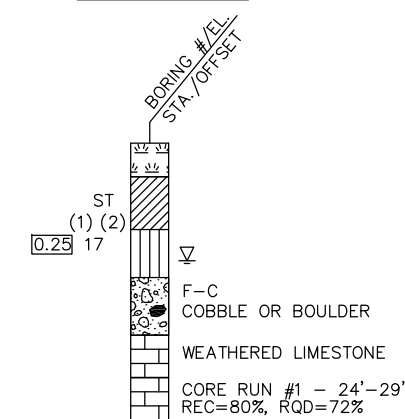
STATE PROJECT NUMBER

7835-00-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE SPECIFIED, THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

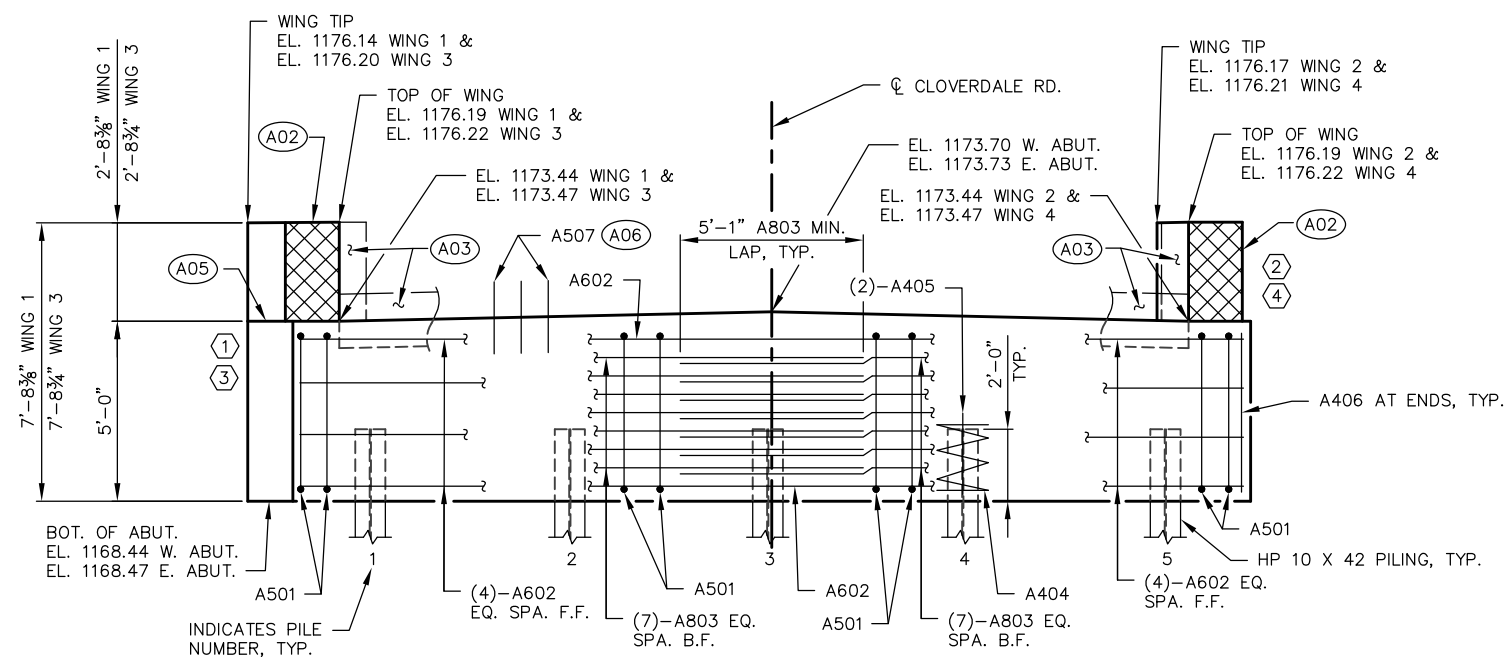
ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-265			
DRAWN BY JDO		PLANS OK'D ACK	
SUBSURFACE EXPLORATION			SHEET 3 OF 10



ELEVATION

(W. ABUT. - LOOKING WEST)
(E. ABUT. - LOOKING EAST)

NOTES

WEST AND EAST ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 45 FT PILE LENGTHS AT THE WEST ABUTMENT AND 45 FT PILE LENGTHS AT THE EAST ABUTMENT.

SEE "CROSS SECTION, GENERAL NOTES & QUANTITIES" SHEET FOR HP 10 X 42 PILING SPLICE DETAILS.

(A01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON "ABUTMENT DETAILS" SHEET. RODENT SHIELD SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

(A02) SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). 1/2" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF WING.

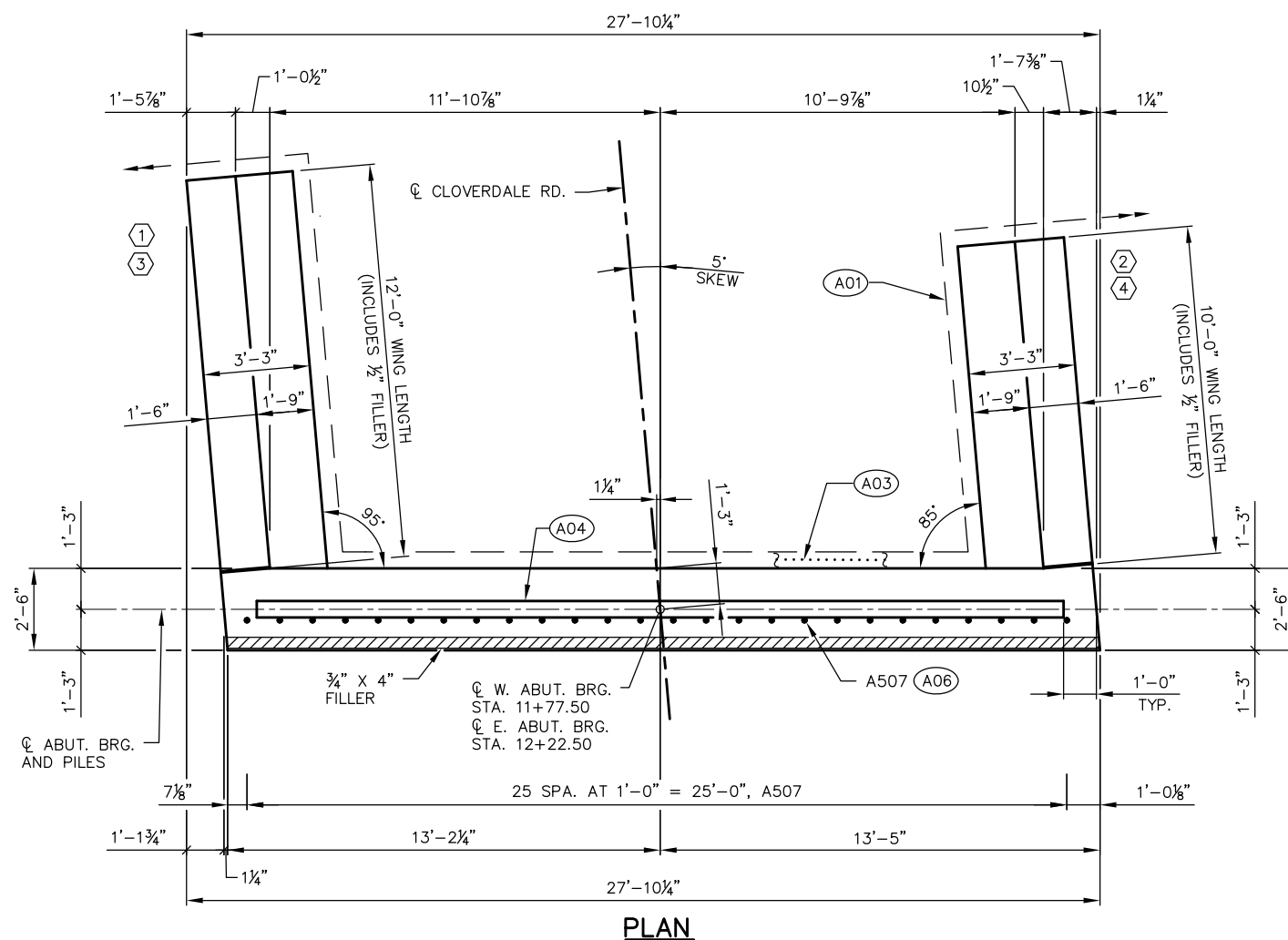
(A03) 18" RUBBERIZED MEMBRANE WATERPROOFING (R.M.W.), SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.

(A04) KEYED CONST. JT. FORMED BY BEVELED 2 X 6

(A05) OPTIONAL KEYED CONST. JT. FORMED BY BEVELED 2 X 6, TYP.

(A06) A507 BARS MAY BE PLACED AFTER CONCRETE HAS BEEN POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-0" INTO ABUTMENT BODY.

⬡ INDICATES WING NUMBER



PLAN

F.F. - FRONT FACE
B.F. - BACK FACE

8

8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-265			
DRAWN BY JDO		PLANS OK'D ACK	
ABUTMENTS			SHEET 4 OF 10

NOTES

WEST AND EAST ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 45 FT PILE LENGTHS AT THE WEST ABUTMENT AND 45 FT PILE LENGTHS AT THE EAST ABUTMENT.

SEE "CROSS SECTION, GENERAL NOTES & QUANTITIES" SHEET FOR HP 10 X 42 PILING SPLICE DETAILS.

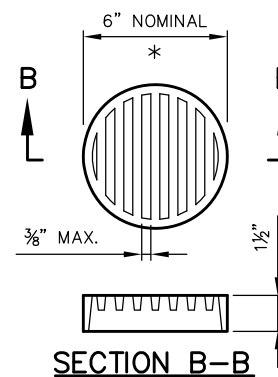
(A01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET. RODENT SHIELD SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

(A03) 18" RUBBERIZED MEMBRANE WATERPROOFING (R.M.W.), SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.

(A04) KEYED CONST. JT. FORMED BY BEVELED 2 X 6

(A06) A507 BARS MAY BE PLACED AFTER CONCRETE HAS BEEN POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-0" INTO ABUTMENT BODY.

⬡ INDICATES WING NUMBER

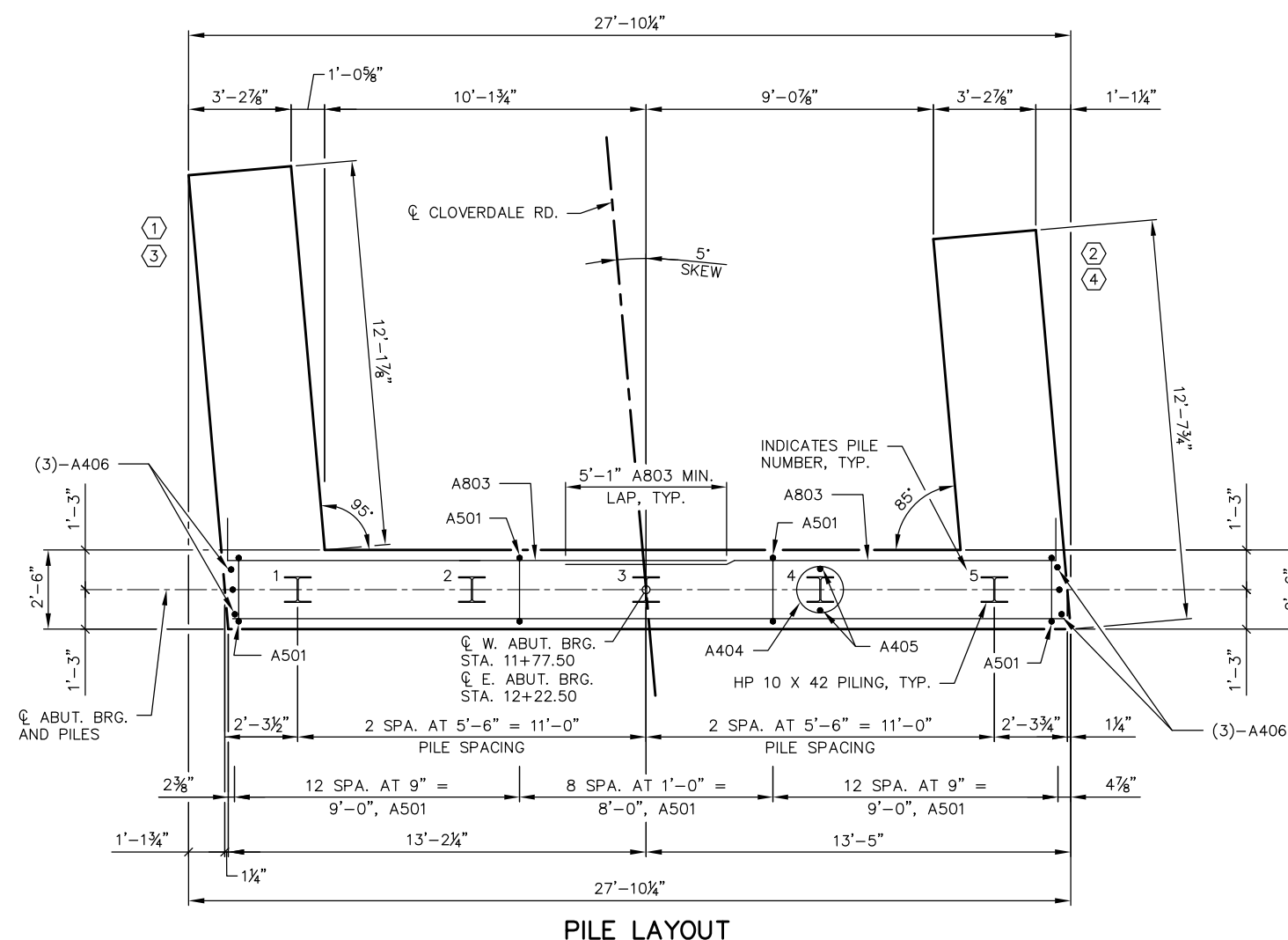


RODENT SHIELD DETAIL

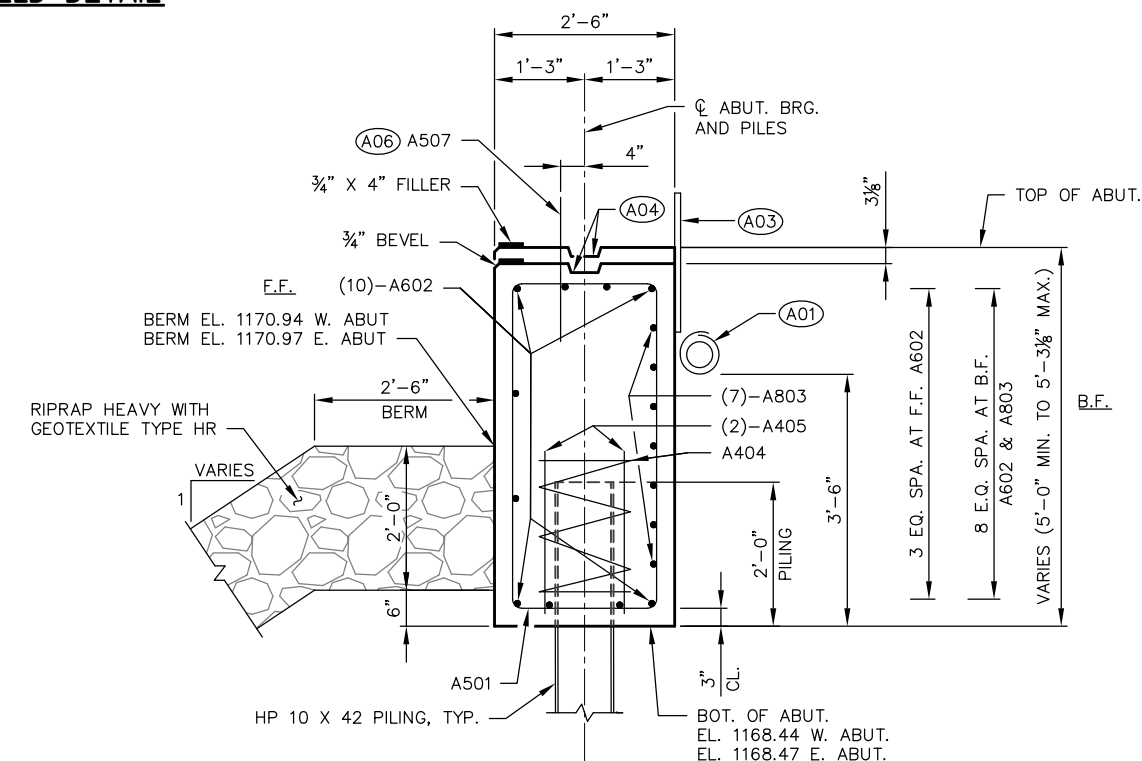
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SHIELD SO SLOTS ARE VERTICAL.

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".



PILE LAYOUT



TYPICAL SECTION THRU ABUTMENT

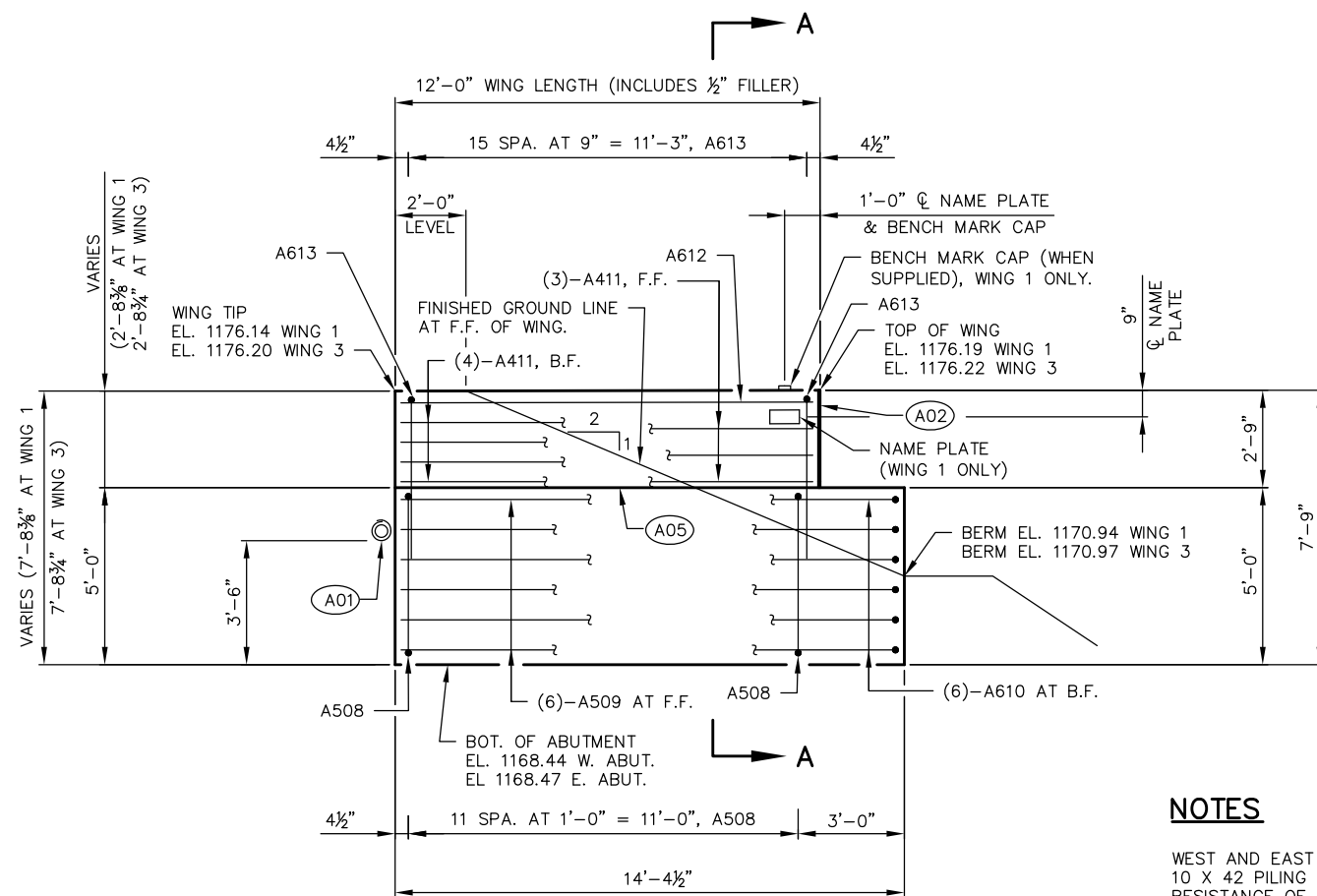
F.F. - FRONT FACE
B.F. - BACK FACE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-265			
DRAWN BY	JDO	PLANS OK'D	ACK
ABUTMENT DETAILS			SHEET 5 OF 10

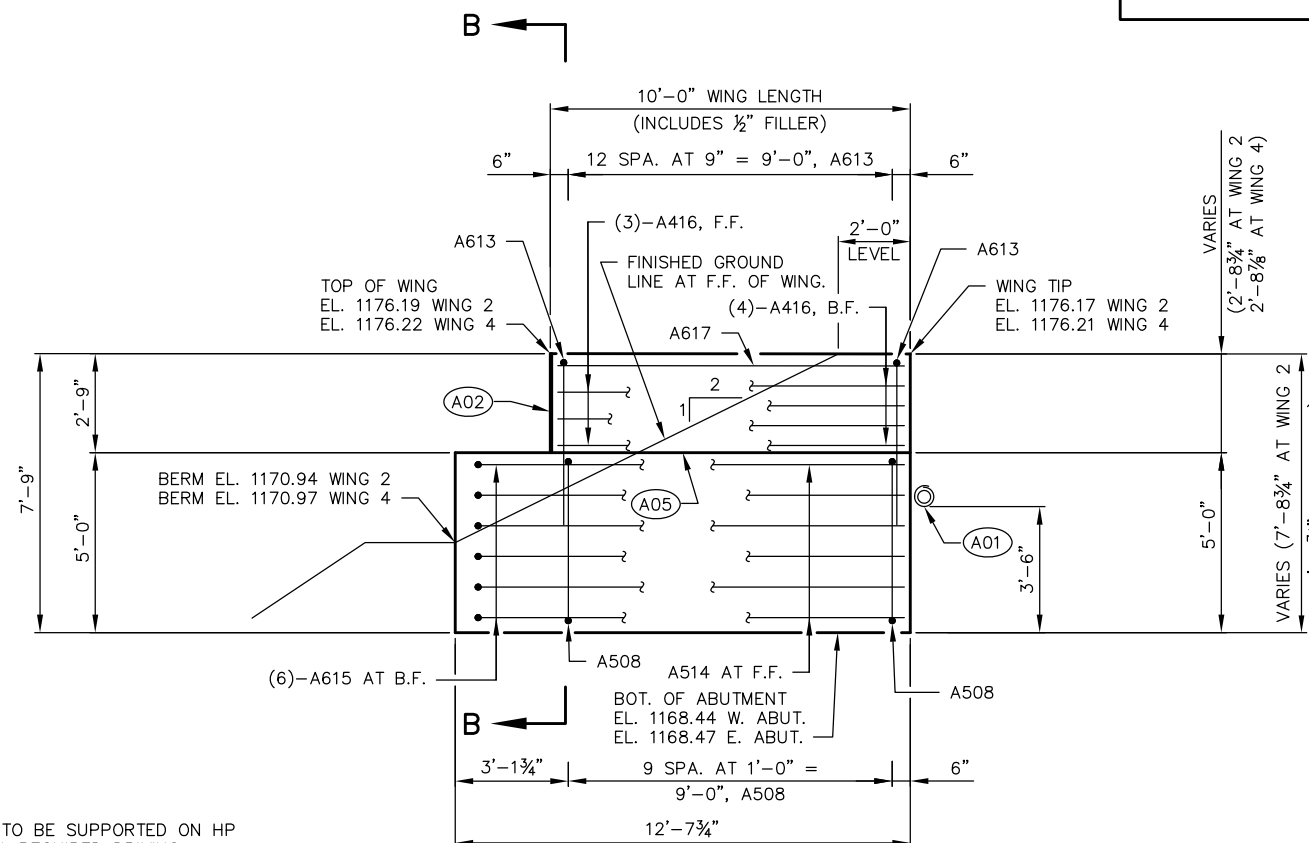
8

8

FILE: B100265_04_7_abut.dwg
PLOT SCALE:



WING 1 & 3 ELEVATION
(LOOKING AT WING 1 & 3 FRONT FACE)



WING 2 & 4 ELEVATION
(LOOKING AT WING 2 & 4 FRONT FACE)

NOTES

WEST AND EAST ABUTMENT TO BE SUPPORTED ON HP 10 X 42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 45 FT PILE LENGTHS AT THE WEST ABUTMENT, AND 45 FT PILE LENGTHS AT THE EAST ABUTMENT.

SEE "CROSS SECTION, GENERAL NOTES & QUANTITIES" SHEET FOR HP 10 X 42 PILING SPLICE DETAILS.

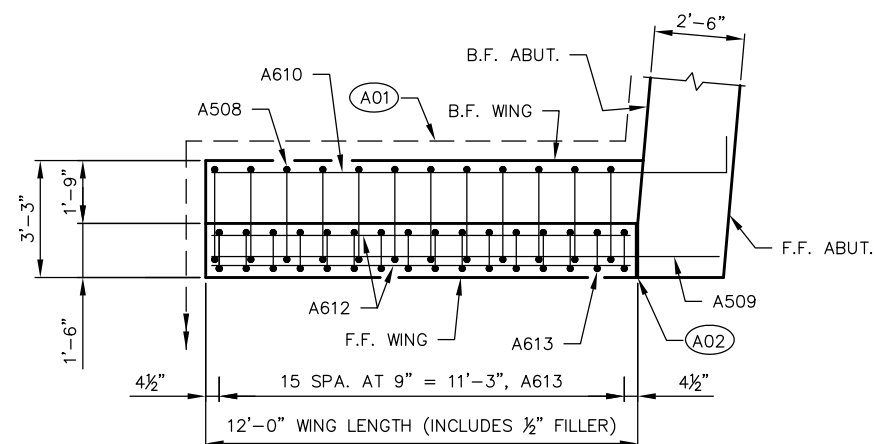
SEE "ABUTMENT REINFORCEMENT" SHEET FOR SECTION A-A AND SECTION B-B.

(A01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON "ABUTMENT DETAILS" SHEET. RODENT SHIELD SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

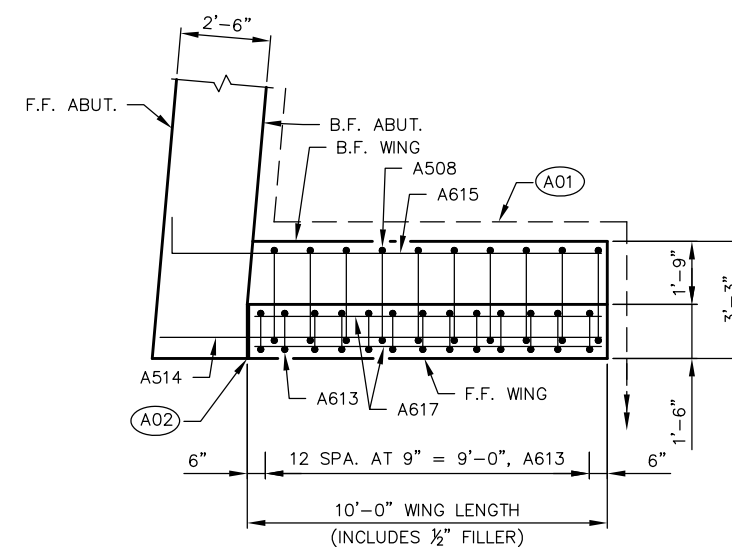
(A02) SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). 1/2" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF WING.

(A05) OPTIONAL KEYED CONST. JT. FORMED BY BEVELED 2 X 6, TYP.

F.F. - FRONT FACE
B.F. - BACK FACE



WING 1 & 3 PLAN
(WING 1 SHOWN, WING 3 SIMILAR)



WING 2 & 4 PLAN
(WING 4 SHOWN, WING 2 SIMILAR)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-265			
DRAWN BY JDO		PLANS OK'D ACK	
ABUTMENT WING DETAILS			SHEET 6 OF 10

**BILL OF BARS
BOTH ABUTMENTS**

COATED = 3,010 LBS.
UNCOATED = 3,250 LBS.

MARK	NUMBER		LENGTH	BENT	BAR SERIES	LOCATION
	COATED	UNCOATED				
A501		66	13'-10"	X		BODY - STIRRUP
A602		20	26'-3"			BODY - BOT., FF., & TOP
A803		28	16'-10"	X		BODY - B.F.
A404		10	28'-0"	X		BODY - PILING STIRRUP
A405		20	2'-3"			BODY - PILING
A406		12	4'-5"			BODY - ENDS
A507		52	2'-0"			BODY - TOP DOWELLS
A508		44	15'-4"	X		ALL WINGS - STIRRUP
A509		12	14'-0"			WING 1 & 3 - F.F.
A610		16	15'-1"	X		WING 1 & 3 - B.F.
A411		14	11'-7"			WING 1 & 3 - F.F. & B.F.
A612		4	11'-7"			WING 1 & 3 - TOP
A613		58	10'-0"	X		ALL WINGS - TOP STIRRUP
A514		12	12'-3"			WING 2 & 4 - F.F.
A615		16	12'-9"	X		WING 2 & 4 - B.F.
A416		14	9'-7"			WING 2 & 4 - F.F. & B.F.
A617		4	9'-7"			WING 2 & 4 - TOP

THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

NOTES

WEST AND EAST ABUTMENT TO BE SUPPORTED ON HP 10 X 42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 45 FT PILE LENGTHS AT THE WEST ABUTMENT AND 45 FT PILE LENGTHS AT THE EAST ABUTMENT.

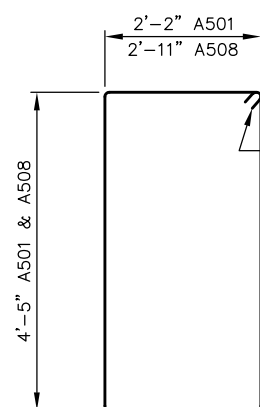
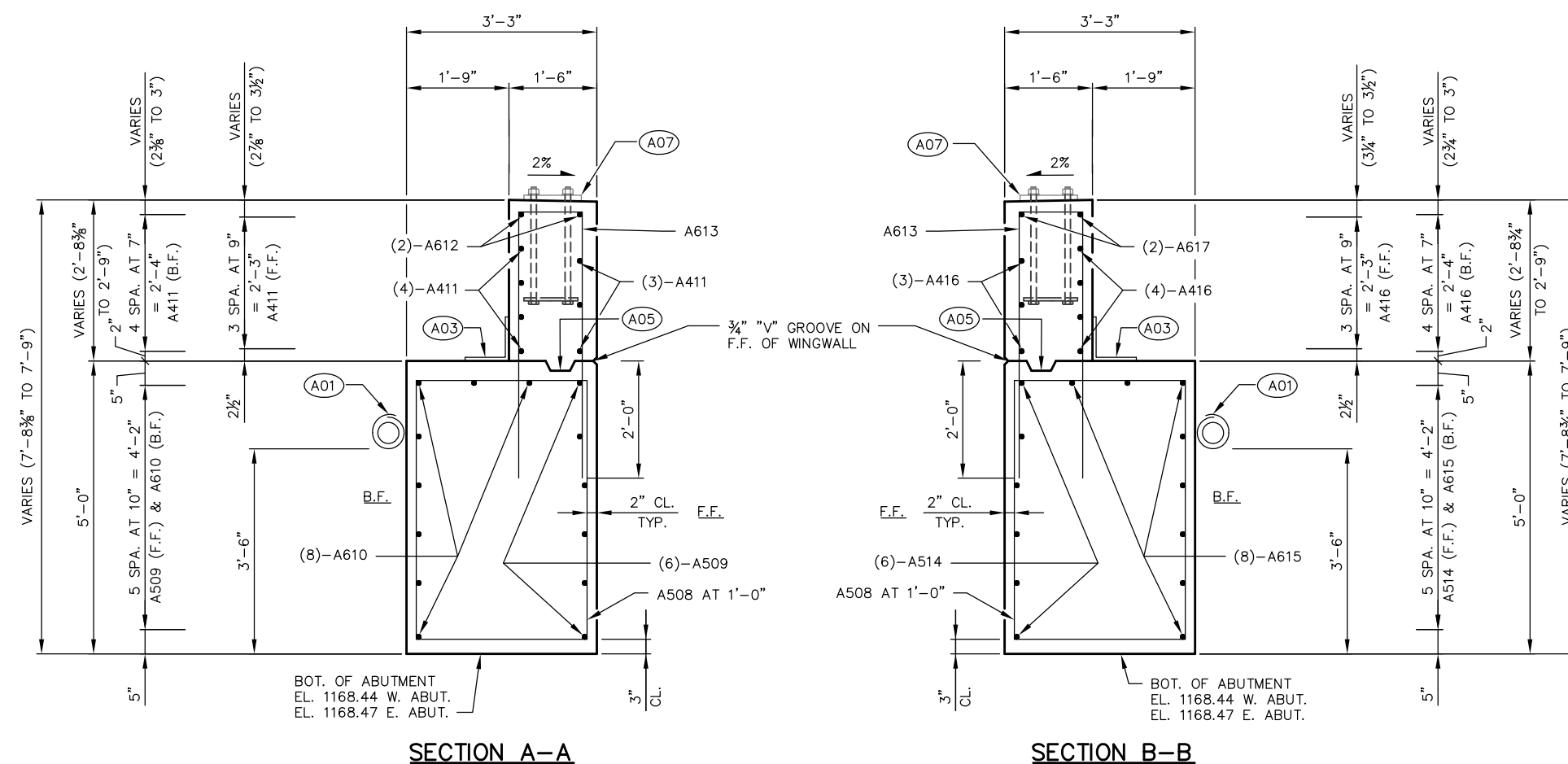
SEE "CROSS SECTION, GENERAL NOTES & QUANTITIES" SHEET FOR HP 10 X 42 PILING SPLICE DETAILS.

(A01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON "ABUTMENT DETAILS" SHEET. RODENT SHIELD SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

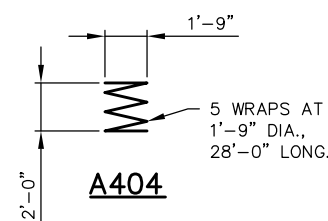
(A03) 18" RUBBERIZED MEMBRANE WATERPROOFING (R.M.W.), SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.

(A05) OPTIONAL KEYED CONST. JT. FORMED BY BEVELED 2 X 6, TYP.

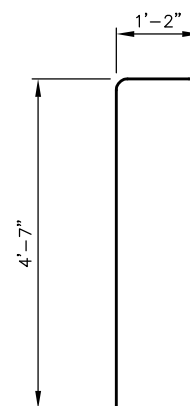
(A07) SEE "RAILING TUBULAR TYPE M" SHEET FOR DETAILS.



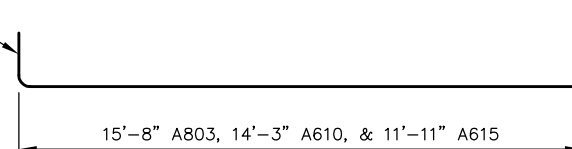
A501 & A508



A404



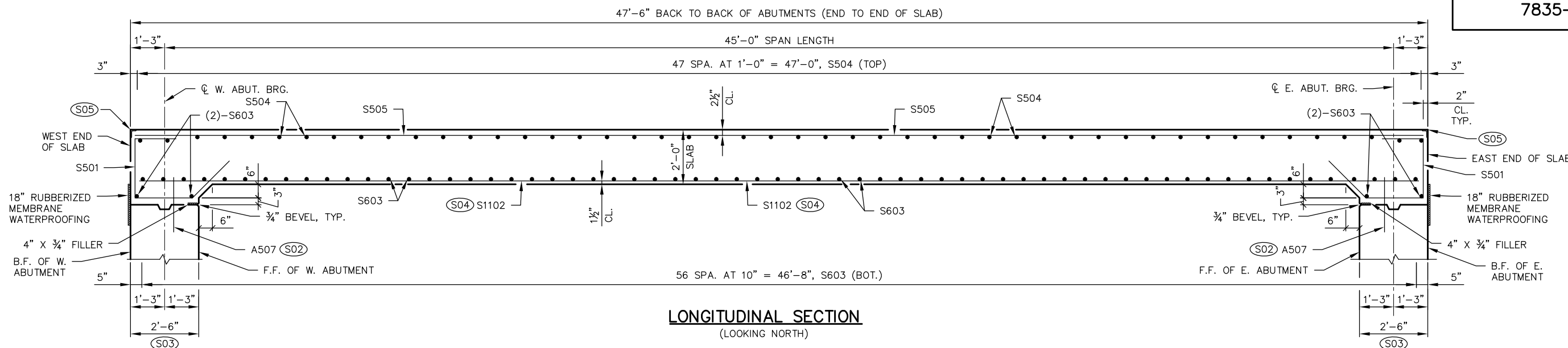
A613



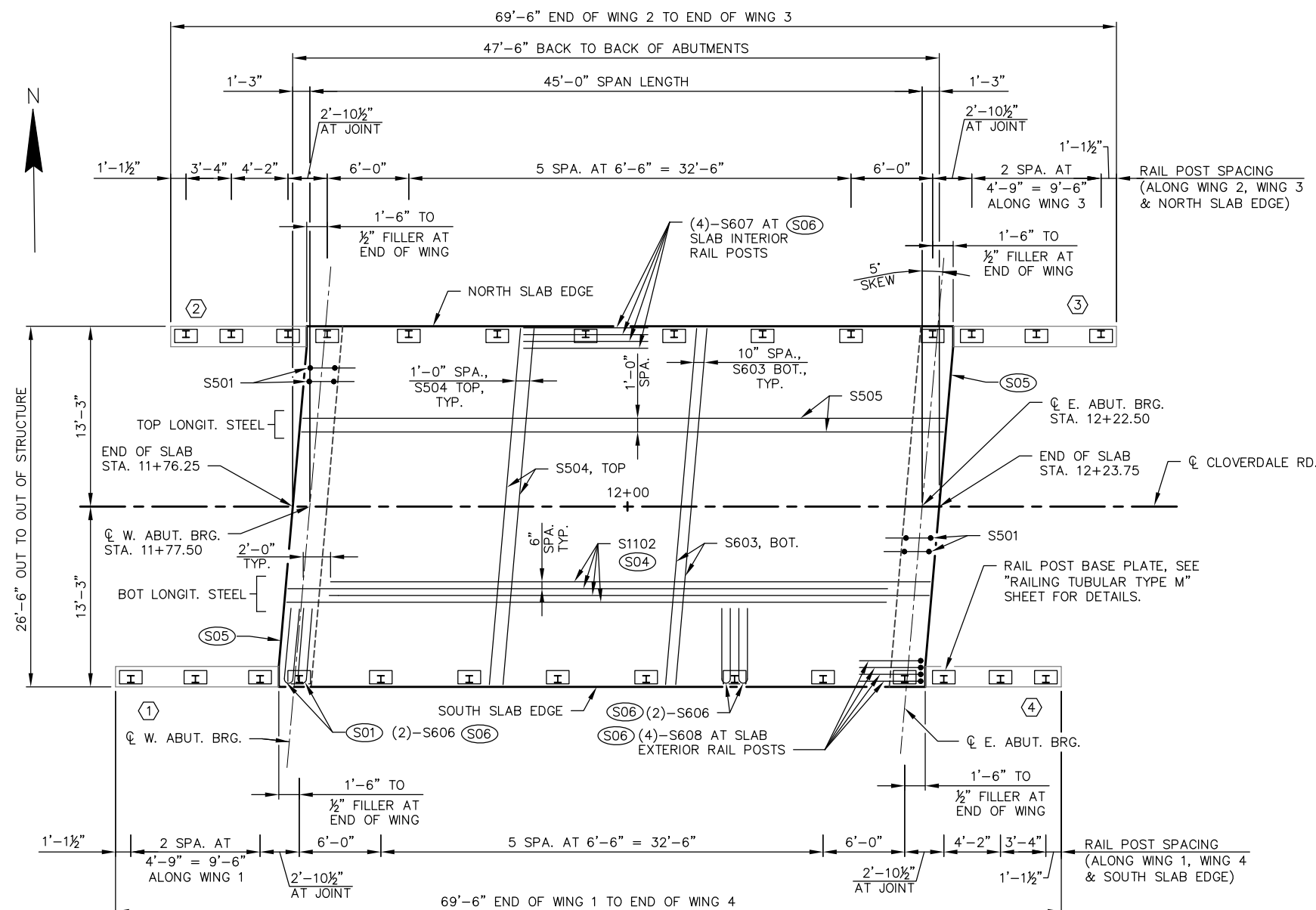
**A803, A610,
& A615**

F.F. - FRONT FACE
B.F. - BACK FACE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-265			
DRAWN BY JDO		PLANS OK'D ACK	
ABUTMENT REINFORCEMENT			SHEET 7 OF 10



LONGITUDINAL SECTION
(LOOKING NORTH)



PLAN VIEW

NOTES

- TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY.
- BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.
- ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).
- RAILING TO BE INSTALLED ON THE SLAB AFTER FALSEWORK HAS BEEN RELEASED.
- (S01) ADJUST ORIENTATION OF S606 BAR AT END POST NEAR WINGS 1 & 3 TO ENSURE CLEAR COVER AT END OF SLAB.
- (S02) SEE "ABUTMENTS" SHEET FOR PLACEMENT OF A507 BARS.
- (S03) DIMENSION IS TAKEN PARALLEL TO ϕ CLOVERDALE RD.
- (S04) EXTEND ONE END OF THE S1102 BAR TO 2" CLEAR OF ONE BACK FACE OF ABUTMENT. ALTERNATE BETWEEN WEST AND EAST ABUTMENTS ACROSS ENTIRE SLAB.
- (S05) PROTECTION ANGLE. SEE "PROTECTION ANGLE DETAIL" ON "SUPERSTRUCTURE DETAILS" SHEET.
- (S06) SEE "RAILING TUBULAR TYPE M" SHEET FOR PLACEMENT OF RAIL POST REINFORCEMENT.
- \square INDICATES WING NUMBER

F.F. - FRONT FACE
B.F. - BACK FACE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-265			
DRAWN BY JDO		PLANS OK'D ACK	
SUPERSTRUCTURE			SHEET 8 OF 10

8

8

FILE: B100265_8-9_super.dwg
PLOT SCALE:

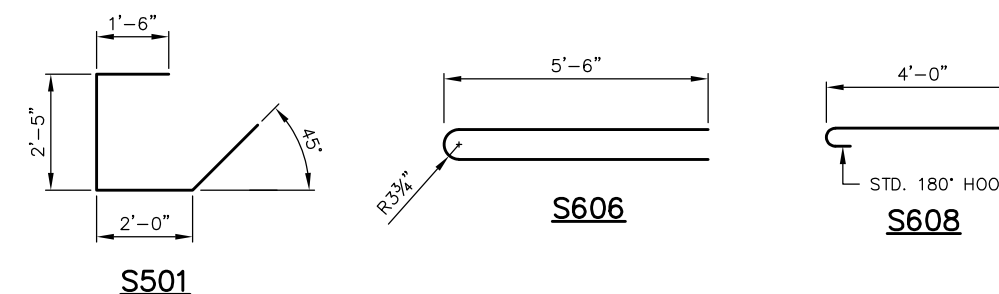
**BILL OF BARS
SUPERSTRUCTURE**

COATED = 19,010 LBS.

MARK	NUMBER		LENGTH	BENT	BAR SERIES	LOCATION
	COATED	UNCOATED				
S501	54		7'-7"	X		SLAB AT ABUTMENT - TIES LONGIT.
S1102	53		44'-1"			SLAB - BOTTOM LONGIT.
S603	61		26'-3"			SLAB - BOTTOM TRANS.
S504	48		26'-3"			SLAB - TOP TRANS.
S505	27		47'-2"			SLAB - TOP LONGIT.
S606	32		12'-0"	X		SLAB - TOP AT RAIL POSTS TRANS.
S607	48		6'-0"			SLAB - TOP AT INTERIOR RAIL POSTS LONGIT.
S608	16		4'-8"	X		SLAB - TOP AT EXTERIOR RAIL POSTS LONGIT.

THE FIRST OR FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

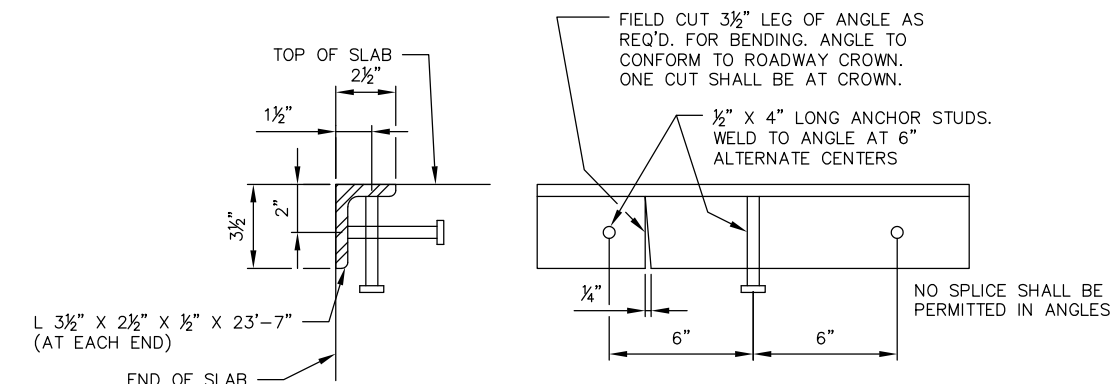
ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.



S501

S606

S608

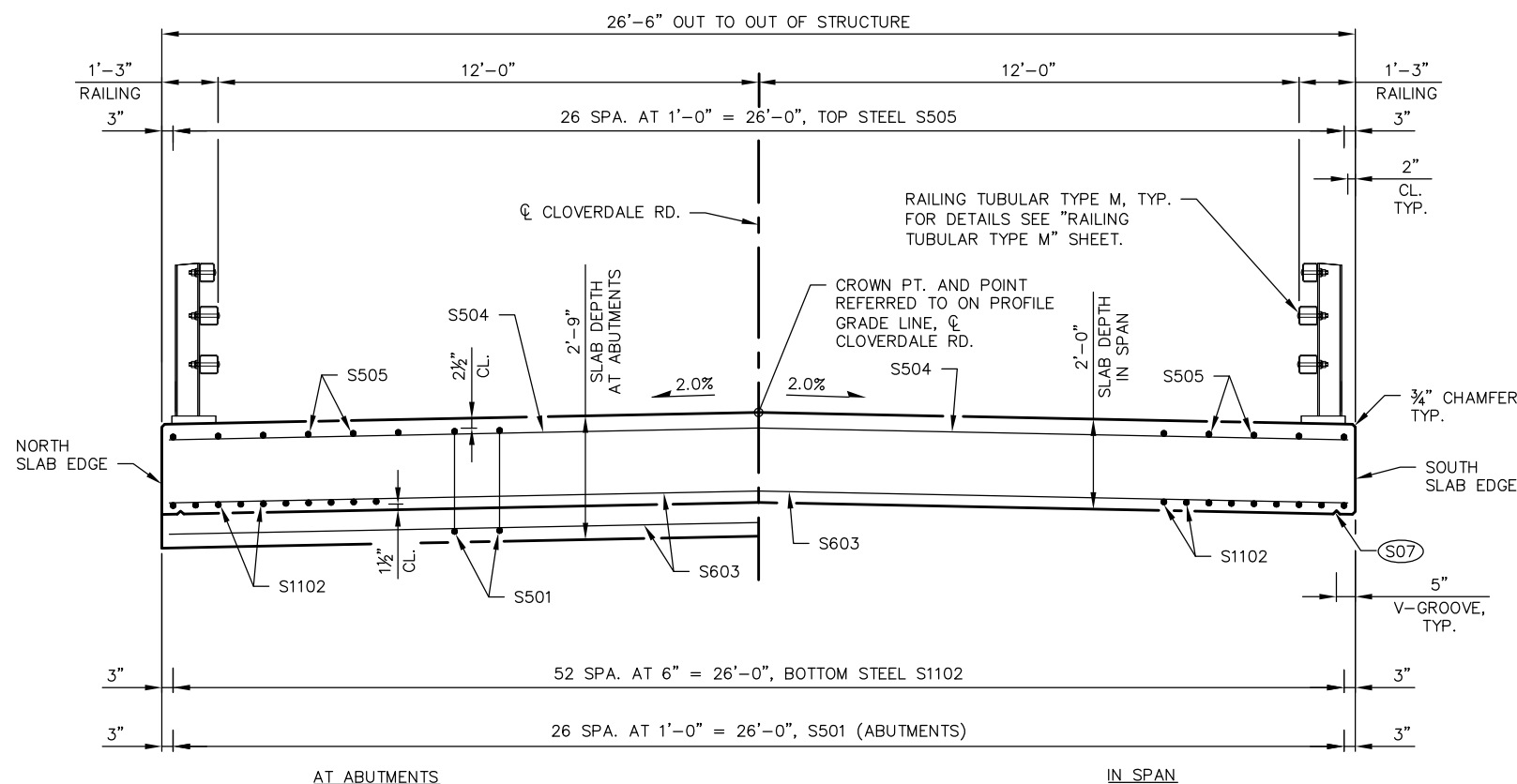


PROTECTION ANGLE DETAIL

ANGLE AND STUDS TO BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL STEEL CARBON". (NO PAINT REQ'D.)

SANDBLAST PROTECTION ANGLE AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PROTECTION ANGLE SHALL BE HOT DIPPED GALVANIZED.

PROTECTION ANGLES ARE REQUIRED AT BOTH END OF SLABS AND ARE TO BE EMBEDDED IN THE BRIDGE SLAB CONCRETE. ENSURE PROTECTION ANGLES ARE SECURELY IN PLACE PRIOR TO POURING THE BRIDGE SLAB.



CROSS SECTION THRU ROADWAY

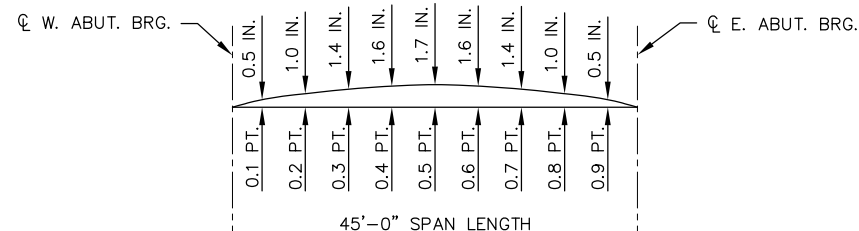
(LOOKING EAST)

SURVEY TOP OF SLAB ELEVATIONS

	Q W. ABUT. BRG.	5/10 PT.	Q E. ABUT. BRG.
NORTH SLAB EDGE			
Q CLOVERDALE RD.			
SOUTH SLAB EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE Q OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

TOP OF SLAB ELEVATIONS			
SPAN PT	NORTH SLAB EDGE	Q CLOVERDALE RD	SOUTH SLAB EDGE
Q W. ABUT.	1176.19	1176.45	1176.19
0.1	1176.20	1176.46	1176.20
0.2	1176.21	1176.47	1176.21
0.3	1176.22	1176.47	1176.21
0.4	1176.22	1176.48	1176.22
0.5	1176.22	1176.48	1176.22
0.6	1176.23	1176.49	1176.22
0.7	1176.23	1176.49	1176.23
0.8	1176.23	1176.49	1176.23
0.9	1176.22	1176.48	1176.23
Q E. ABUT.	1176.22	1176.48	1176.22



SLAB CAMBER DIAGRAM

NOTES

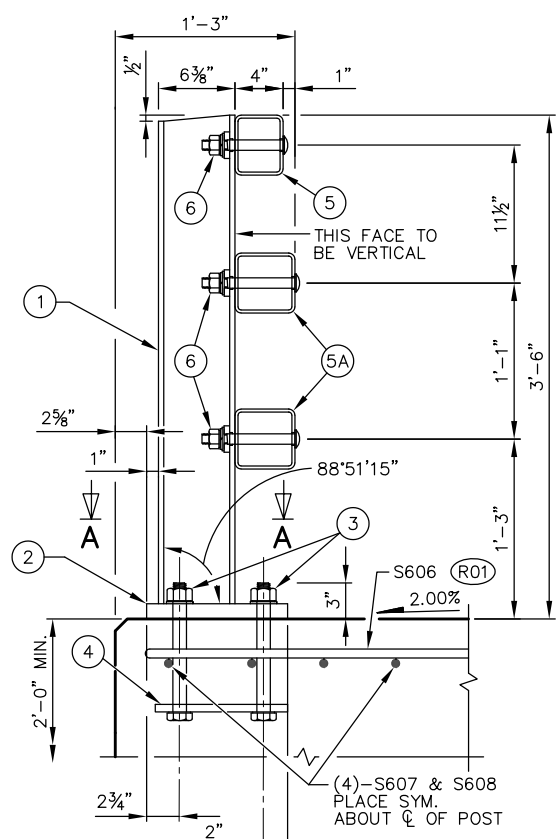
CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

(S07) 3/4" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.

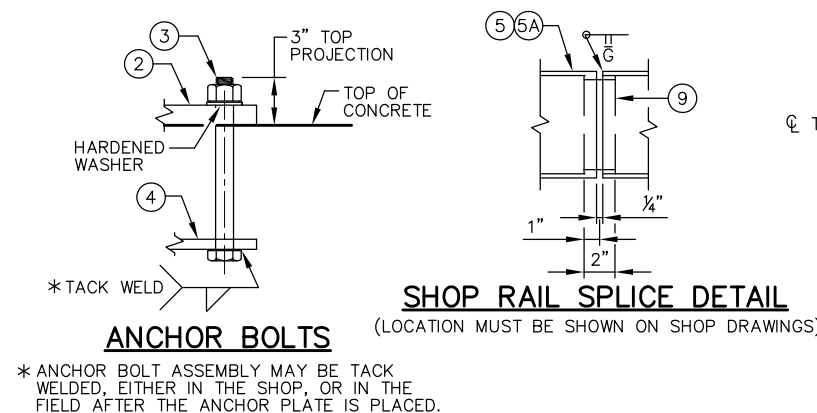
TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE
 LESS SLAB THICKNESS
 PLUS CAMBER
 PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
 EQUALS TOP OF SLAB FALSEWORK ELEVATION.

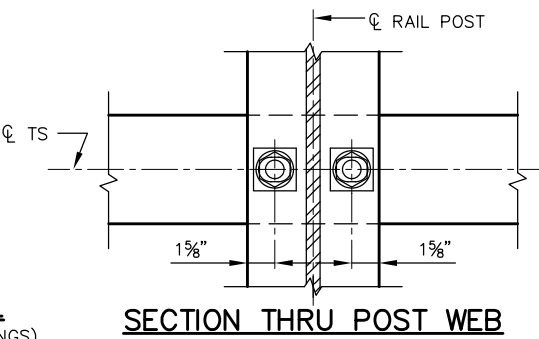
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-265			
DRAWN BY JDO		PLANS OK'D ACK	
SUPERSTRUCTURE DETAILS			SHEET 9 OF 10



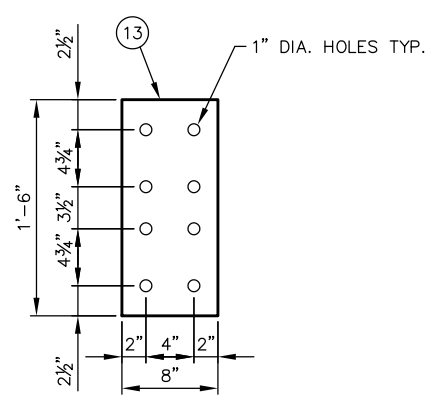
SECTION THRU RAILING ON SLAB



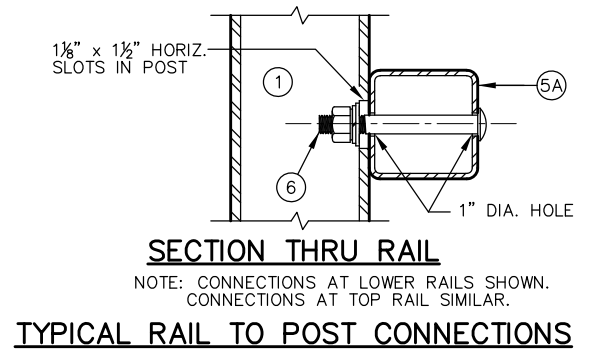
SHOP RAIL SPLICE DETAIL



SECTION THRU POST WEB

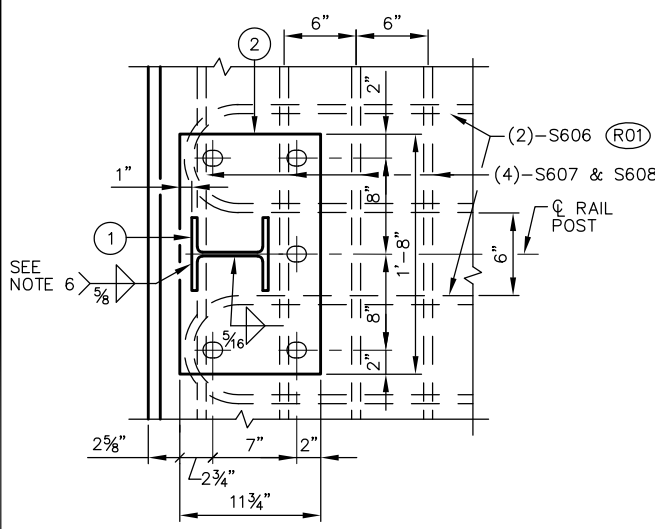


ANCHOR PLATE AT BEAM GUARD ATTACHMENT

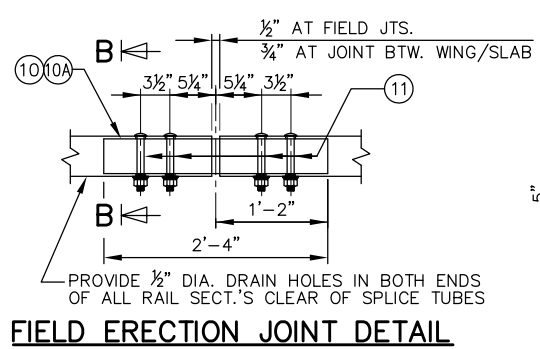


SECTION THRU RAIL

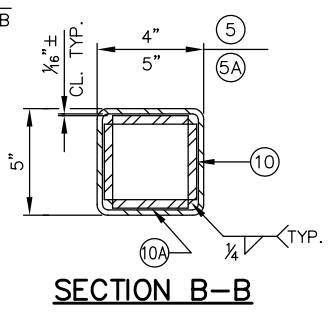
TYPICAL RAIL TO POST CONNECTIONS



SECTION A-A

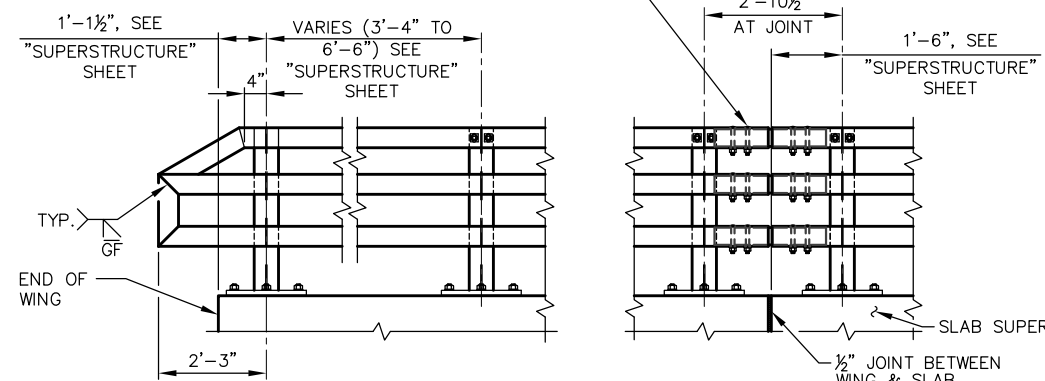


FIELD ERECTION JOINT DETAIL



SECTION B-B

SEE "FIELD ERECTION JOINT DETAIL", THIS SHEET FOR JOINT IN STRUCTURE DETAIL. SEE "SUPERSTRUCTURE" SHEET FOR LOCATIONS.



PART ELEVATION OF RAILING

LEGEND

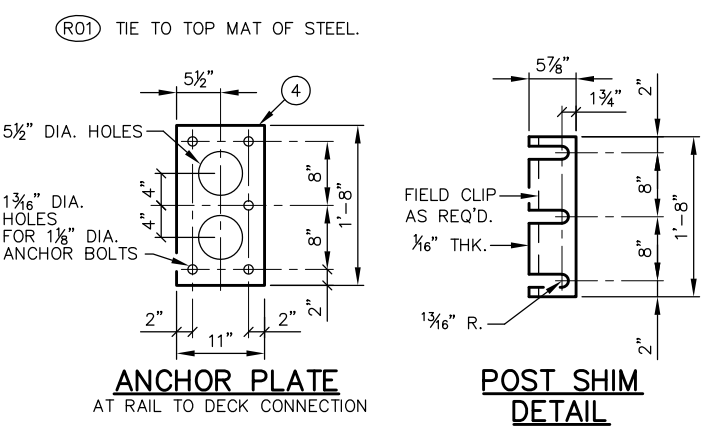
- ① W6 x 25 WITH 1 1/8" x 1 1/2" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- ② PLATE 1 1/4" x 11 3/4" x 1'-8" WITH 1 7/16" DIA. OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
- ③ ASTM A449 - 1 1/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10 3/4" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTABILITY.)
- ④ 5/8" x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1 3/16" DIA. HOLES FOR ANCHOR BOLTS NO. 3
- ⑤ TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- ⑤A TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- ⑥ 7/8" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, 3/16" x 1 5/8" x 1 5/8" MIN. WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION.)
- ⑨ SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- ⑩ 3/8" x 3 3/8" x 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- ⑩A 3/8" x 2 5/8" x 2'-4" PLATE USED IN NO. 5, 3/8" x 3 3/8" x 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- ⑪ 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER. USE 1 5/16" x 1 1/4" LONGIT. SLOTTED HOLES IN PLATE NO. 10A. AT FIELD JOINTS AND 1 5/16" x 2 1/4" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A. PROVIDE 1 5/16" DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A.

NOTES

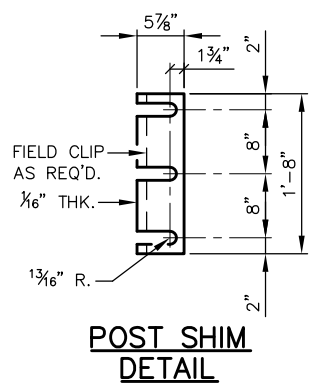
- 1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN.
- 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.
- 8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.

8

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ANCHOR PLATE AT RAIL TO DECK CONNECTION



POST SHIM DETAIL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-10-265			
DRAWN BY JDO		PLANS OK'D ACK	
RAILING TUBULAR TYPE M			SHEET 10 OF 10

DIVISION 1 - LCL-CLOVERDALE RD											
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
11+26.25	1126.25	0.00	23.14	0.00	1.36	0	0	0	0	0	0
11+50.00	1150.00	23.75	34.94	0.00	26.17	26	0	12	26	15	11
11+63.20	1163.20	13.20	50.61	0.00	28.74	21	0	13	47	31	16
11+63.22	1163.22	0.02	25.59	0.00	15.92	0	0	0	47	31	16
11+67.20	1167.20	3.98	24.84	0.00	15.46	4	0	2	51	34	17
11+67.27	1167.27	0.07	9.58	0.00	0.00	0	0	0	51	34	17
11+76.25	1176.25	8.98	8.20	0.00	0.00	3	0	0	54	34	20
STRUCTURE B-10-0265						TOTALS	54	0	27		

DIVISION 1 - LCL-CLOVERDALE RD											
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
12+23.75	1223.75	0.00	14.44	0.00	0.00	0	0	0	0	0	0
12+32.73	1232.73	8.98	16.15	0.00	0.00	5	0	0	5	0	5
12+32.80	1232.80	0.07	32.37	0.00	19.30	0	0	0	5	0	5
12+36.78	1236.78	3.98	32.95	0.00	19.38	5	0	3	10	4	6
12+36.80	1236.80	0.02	34.89	0.00	35.08	0	0	0	10	4	6
12+50.00	1250.00	13.20	34.07	0.00	38.23	17	0	18	27	26	1
12+73.75	1273.75	23.75	24.61	0.00	3.65	26	0	18	53	49	4
STRUCTURE B-10-0265						TOTALS	53	0	39		
DIVISION 1 TOTALS						107	0	66			

DIVISION 2 - LCL-TEMP RD											
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
20+10.00	2010.00	0.00	8.30	0.00	0.07	0	0	0	0	0	0
20+25.00	2025.00	15.00	7.66	0.00	1.19	4	0	0	4	0	4
20+50.00	2050.00	25.00	4.03	0.00	29.46	5	0	14	9	18	-9
20+75.00	2075.00	25.00	0.00	0.00	71.77	2	0	47	11	76	-65
21+00.00	2100.00	25.00	0.00	0.00	61.56	0	0	62	11	154	-143
21+25.00	2125.00	25.00	0.00	0.00	74.88	0	0	63	11	233	-222
21+48.32	2148.32	23.32	0.00	0.00	113.15	0	0	81	11	334	-323
TEMPORARY STRUCTURE						TOTALS	11	0	267		

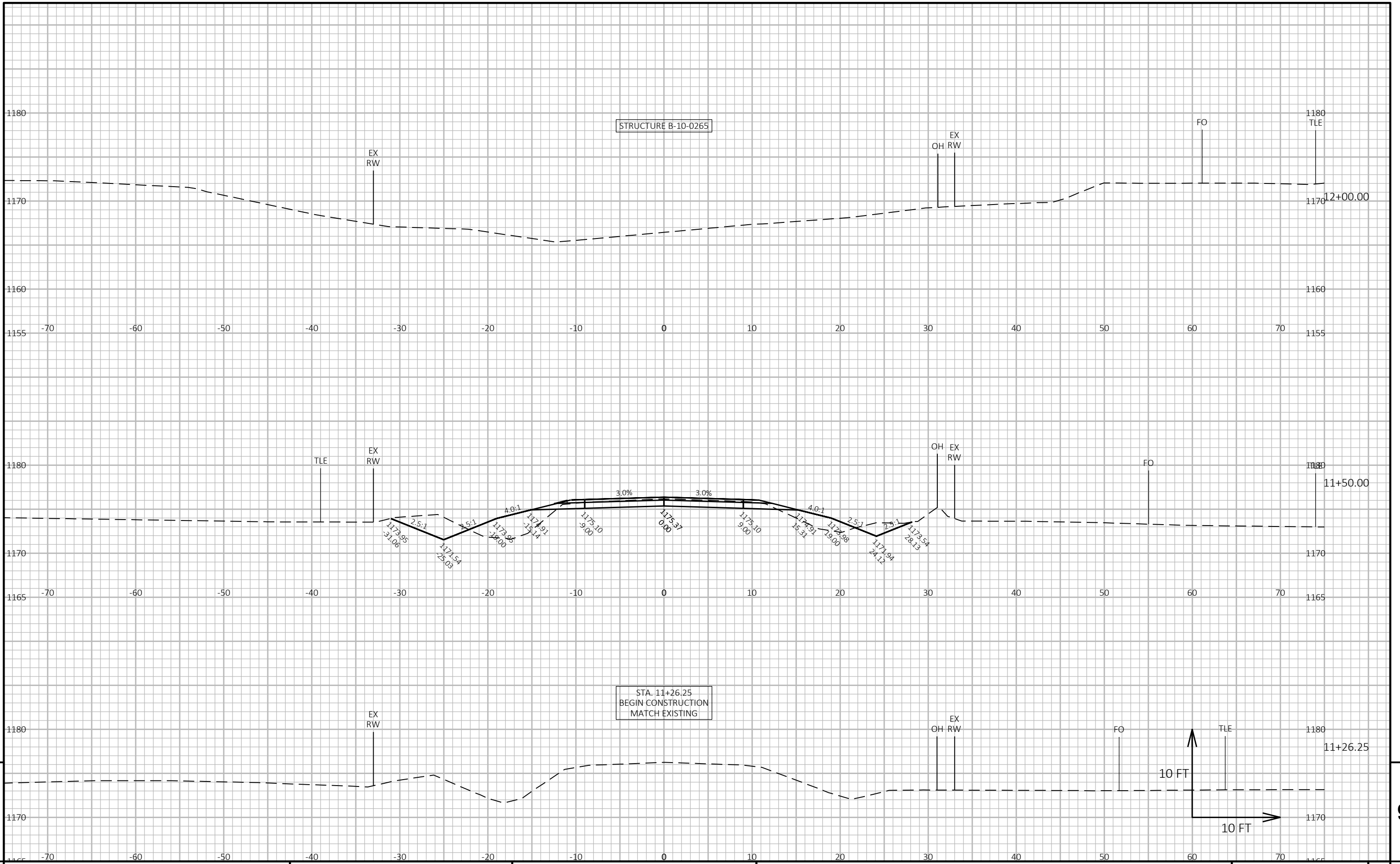
DIVISION 2 - LCL-TEMP RD											
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
21+82.32	2182.32	0.00	0.00	0.00	103.08	0	0	0	0	0	0
22+00.00	2200.00	17.68	0.00	0.00	90.28	0	0	63	0	79	-79
22+25.00	2225.00	25.00	0.00	0.00	99.49	0	0	88	0	189	-189
22+50.00	2250.00	25.00	0.00	0.00	91.24	0	0	88	0	299	-299
22+75.00	2275.00	25.00	0.00	0.00	60.03	0	0	70	0	386	-386
23+00.00	2300.00	25.00	3.84	0.00	12.84	2	0	34	2	429	-427
23+25.00	2325.00	25.00	8.83	0.00	0.00	6	0	6	8	436	-428
23+30.00	2330.00	5.00	10.40	0.00	0.00	2	0	0	10	436	-426
TEMPORARY STRUCTURE						TOTALS	10	0	349		
DIVISION 2 TOTALS						21	0	616			

DIVISION 3 - REMOVING LCL-TEMP RD											
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
20+10.00	2010.00	0.00	---	---	---	---	---	---	---	---	---
23+30.00	2330.00	320.00	---	---	---	616	0	21	616	26	590
TEMPORARY STRUCTURE						TOTALS	616	0	21		
DIVISION 3 TOTALS						616	0	21			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

9

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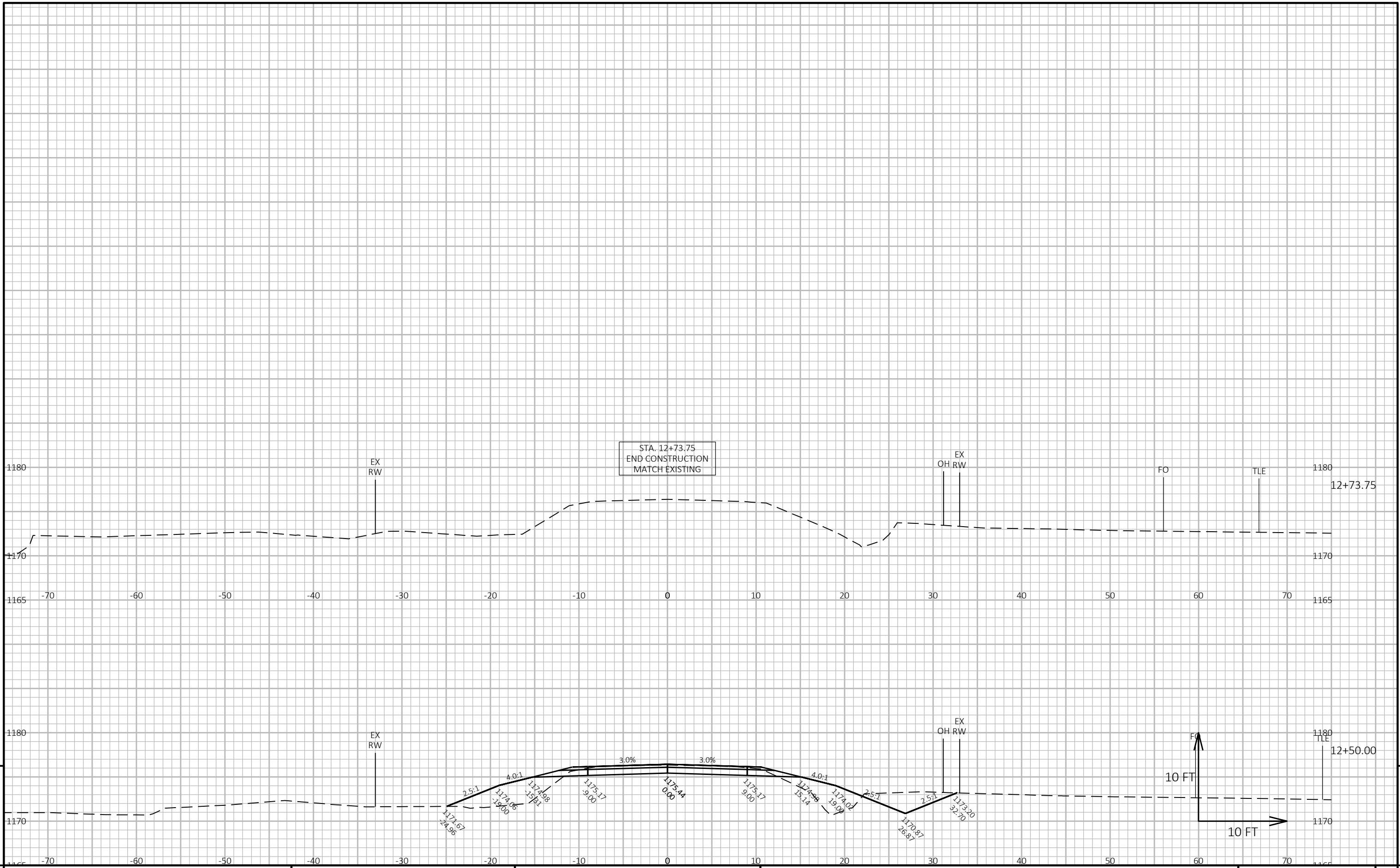
STRUCTURE B-10-0265

STA. 11+26.25
BEGIN CONSTRUCTION
MATCH EXISTING

9

9

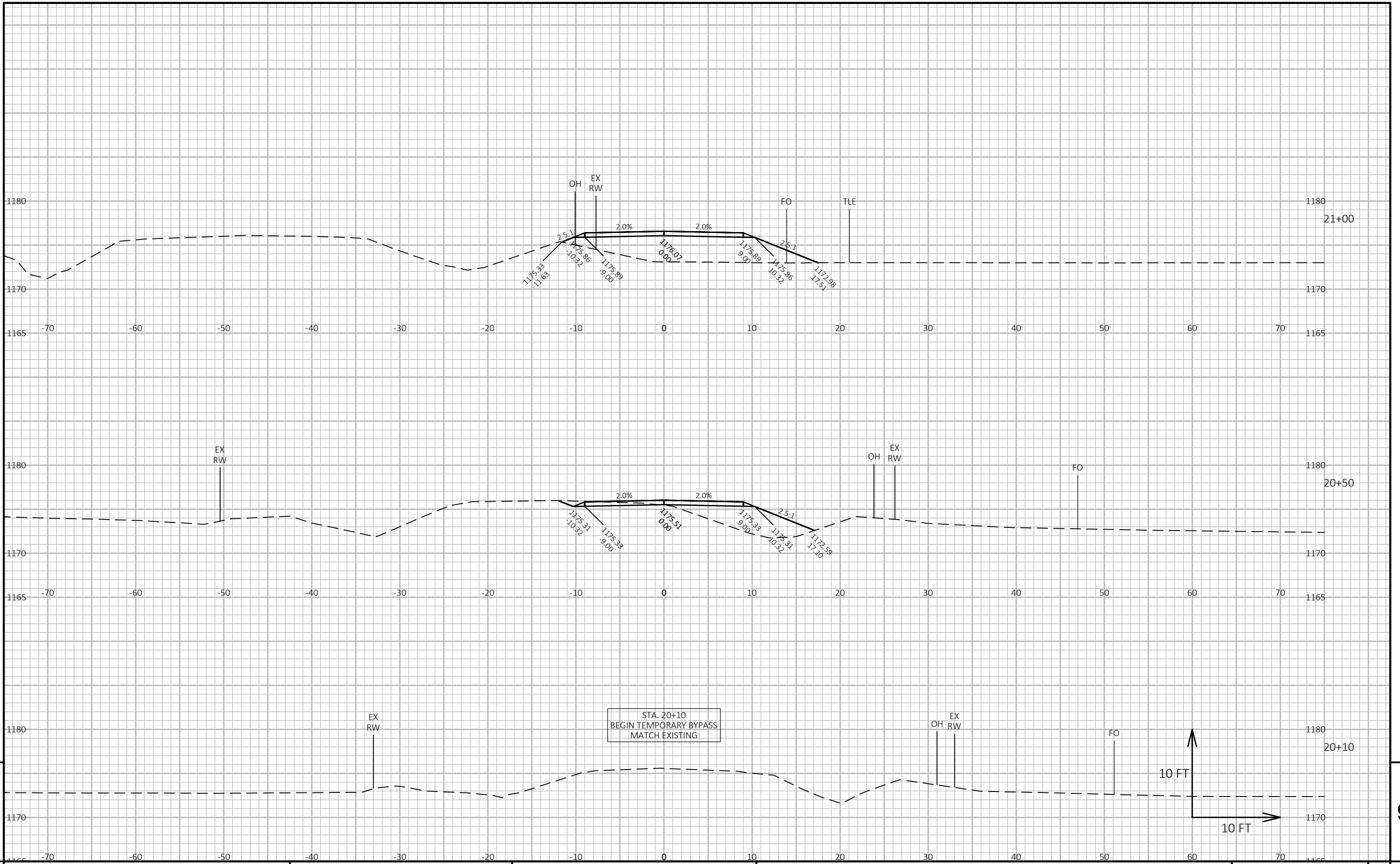
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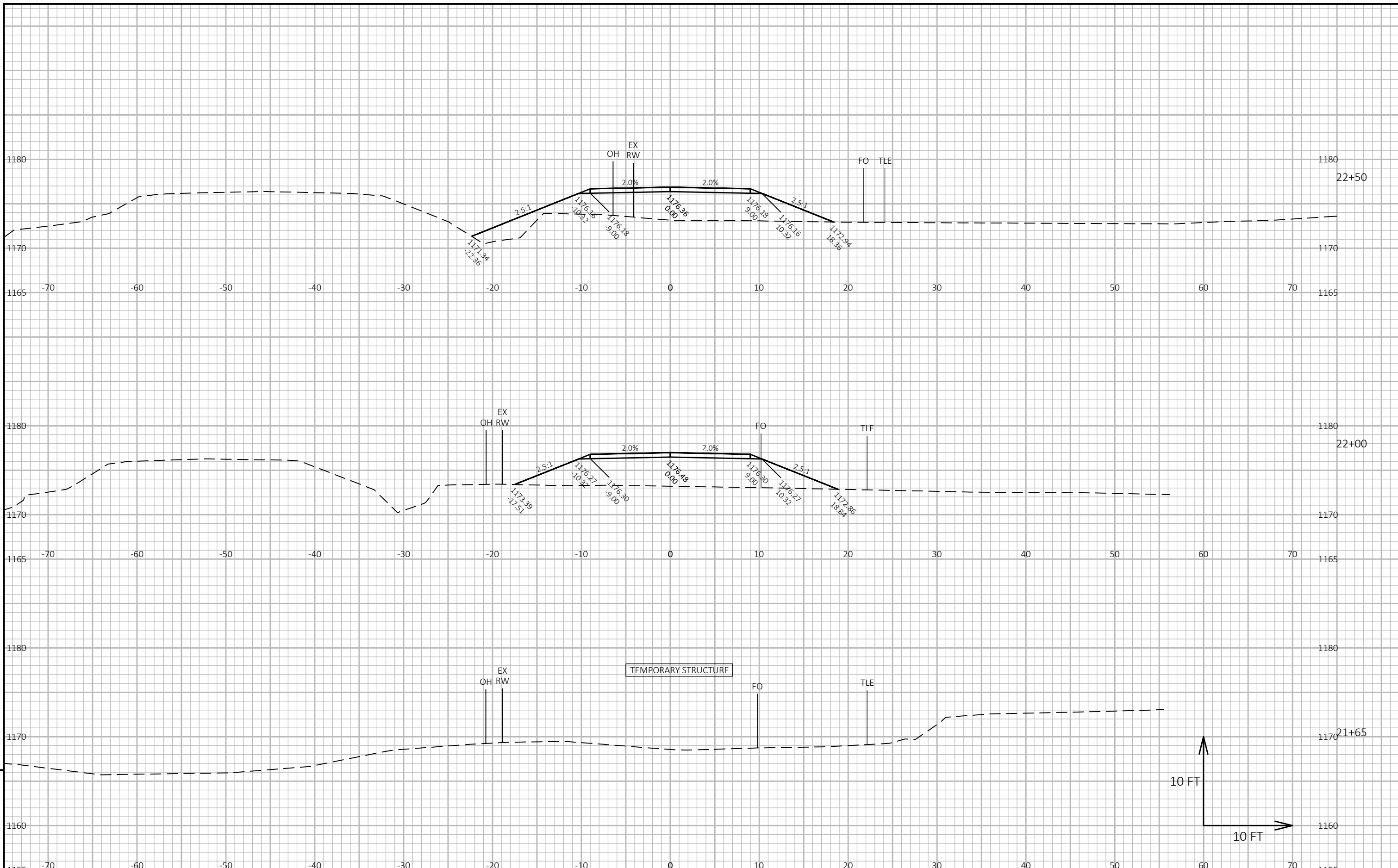
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PROJECT NO: 7835-00-70	HWY: CLOVERDALE ROAD	COUNTY: CLARK	CROSS SECTIONS: CLOVERDALE ROAD	SHEET	E
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PROJECT NO: 7835-00-70	HWY: CLOVERDALE ROAD	COUNTY: CLARK	CROSS SECTIONS: TEMPORARY BYPASS	SHEET	E
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PROJECT NO: 7835-00-70

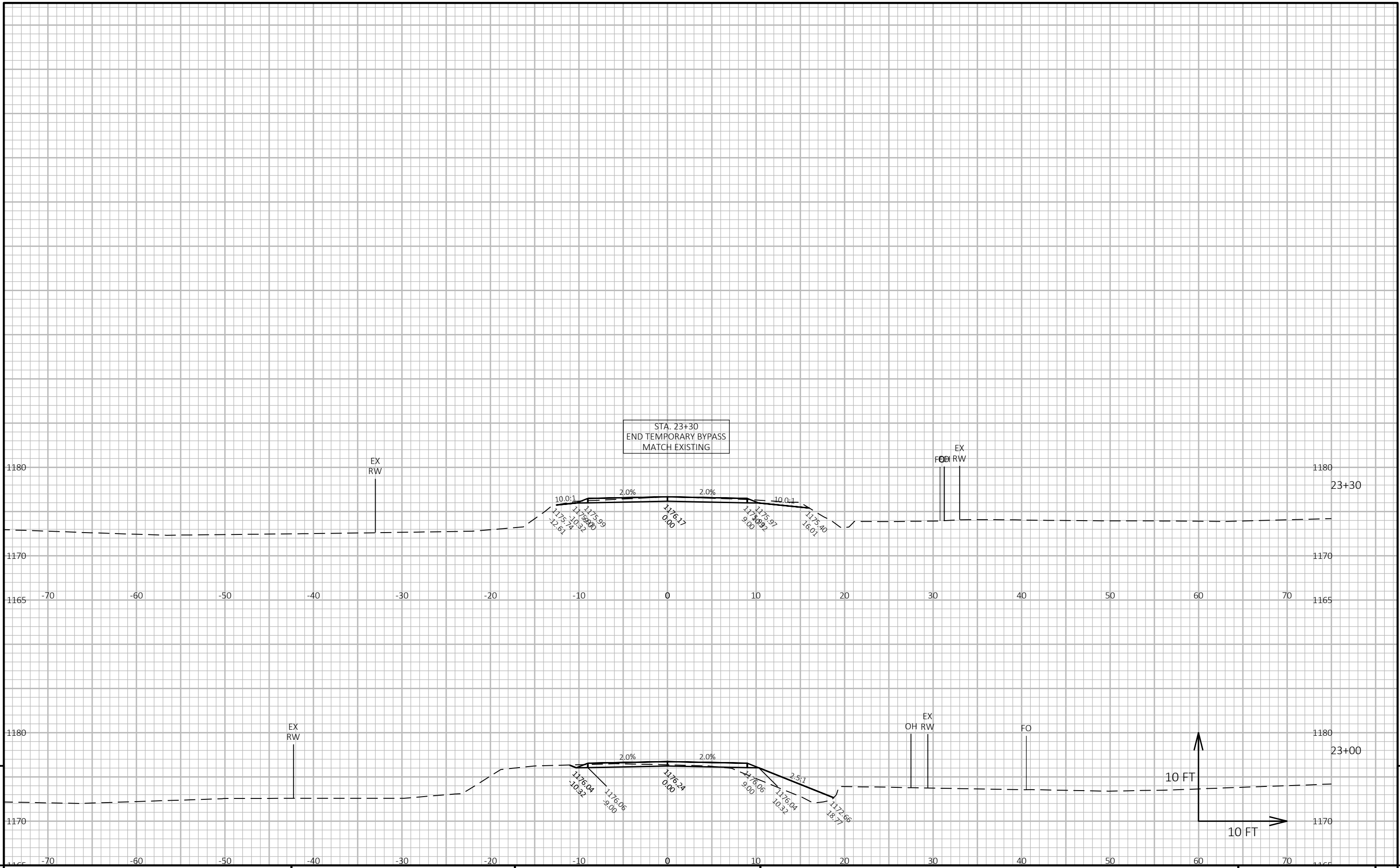
HWY: CLOVERDALE ROAD

COUNTY: CLARK

CROSS SECTIONS: TEMPORARY BYPASS

SHEET

E



PROJECT NO: 7835-00-70 HWY: CLOVERDALE ROAD COUNTY: CLARK CROSS SECTIONS: TEMPORARY BYPASS SHEET E



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