

NO.	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STP FUNDS				NON-PARTICIPATING FUNDS
					80% FED 20% DUPAGE ROADWAY URBAN 0004	80% FED 20% DUPAGE BRIDGE URBAN 0010	80% FED 20% DUPAGE RETAINING WALL URBAN 0044	80% FED 20% DUPAGE ROADWAY URBAN 0042	
57	44000600	SIDEWALK REMOVAL	SQ FT	882	882				
58	44004250	PAVED SHOULDER REMOVAL	SQ YD	1,616	1,616				
59	44201835	CLASS D PATCHES, TYPE I, 16 INCH	SQ YD	22	22				
60	44201839	CLASS D PATCHES, TYPE II, 16 INCH	SQ YD	66	66				
61	44201843	CLASS D PATCHES, TYPE III, 16 INCH	SQ YD	66	66				
62	44201845	CLASS D PATCHES, TYPE IV, 16 INCH	SQ YD	22	22				
63	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1			
64	50200100	STRUCTURE EXCAVATION	CU YD	1,184		83	1,101		
65	50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	146			146		
66	50300100	FLOOR DRAINS	EACH	4		4			
67	50300225	CONCRETE STRUCTURES	CU YD	167		167.3			
68	50300255	CONCRETE SUPERSTRUCTURE	CU YD	474		473.7			
69	50300260	BRIDGE DECK GROOVING	SQ YD	995		995			
70	50300300	PROTECTIVE COAT	SQ YD	1,752		1,752			

* SPECIALTY ITEM

MODEL: S:\MODEL\MARIES FILE NAME: 7/12/2024-503.dgn



DESIGNED - D.M.S.	REVISED - 4/11/24 ZRE
DRAWN - D.M.S.	REVISED -
CHECKED - J.R.S.	REVISED -
DATE - 4/11/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

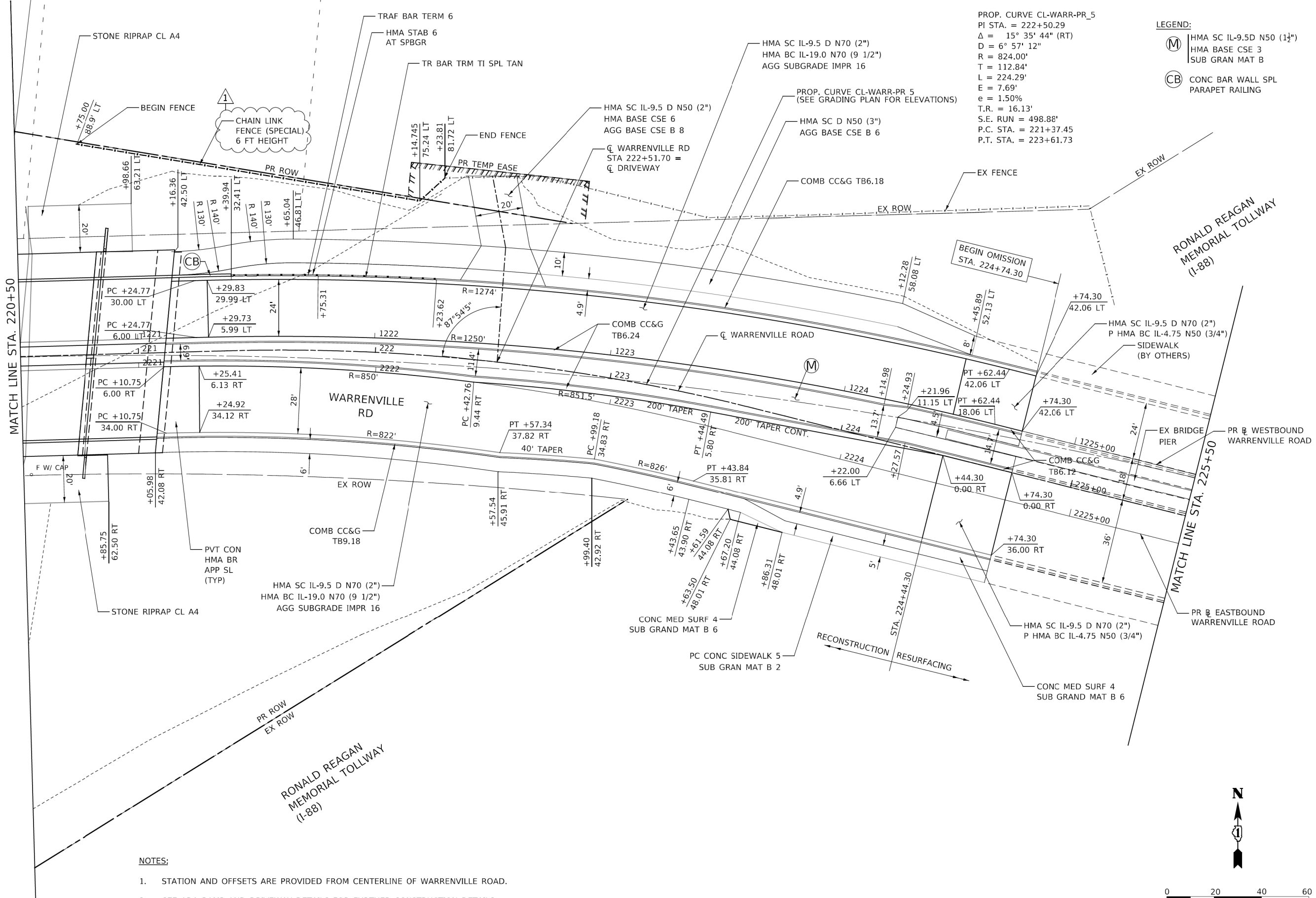
SCALE: NONE SHEET 5 OF 15 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	14-00124-04-BR		208	7
CONTRACT NO. 61114				
ILLINOIS FED. AID PROJECT				

NO.	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STP FUNDS				NON-PARTICIPATING FUNDS
					80% FED 20% DUPAGE ROADWAY URBAN 0004	80% FED 20% DUPAGE BRIDGE URBAN 0010	80% FED 20% DUPAGE RETAINING WALL URBAN 0044	80% FED 20% DUPAGE ROADWAY URBAN 0042	
197	X0300249	REMOVE EXISTING GATE	EACH	1	1				
*	198	X0323013 TUBULAR STEEL GATE	EACH	1	1				
	199	X0326671 CONCRETE SURFACE COLOR TREATMENT	SQ FT	1,746			1746	1	
	200	X0327999 ANTI-GRAFFITI COATING	SQ FT	2,967					2,967
	201	X5021512 COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	4	4				
	202	X5030282 FORM LINER TEXTURED SURFACE (SPECIAL)	SQ FT	1,746			1746		
*	203	X2511630 EROSION CONTROL BLANKET (SPECIAL)	SQ YD	13,944	13,944				
	204	X4400501 COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	30	30				
	205	X4403800 MEDIUM SURFACE REMOVAL	SQ FT	5,677	5,677				
	206	X4404260 PAVED SHOULDER REMOVAL (SPECIAL)	SQ YD	214	214				
	207	X5120013 PILE REMOVAL	EACH	2		2			
	208	X5427602 REMOVE EXISTING FLARED END SECTION	EACH	3	3				
*	209	X5610651 ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	136					136
*	210	X5630710 CONNECTION TO EXISTING WATER MAIN 10"	EACH	2					2

* SPECIALTY ITEM

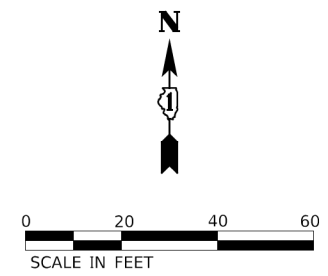
MODEL: \$MODELNAME\$ FILE NAME: 71802315-S02.dgn



PROP. CURVE CL-WARR-PR_5
 PI STA. = 222+50.29
 $\Delta = 15^\circ 35' 44''$ (RT)
 $D = 6^\circ 57' 12''$
 $R = 824.00'$
 $T = 112.84'$
 $L = 224.29'$
 $e = 1.50\%$
 $T.R. = 16.13'$
 $S.E. RUN = 498.88'$
 $P.C. STA. = 221+37.45$
 $P.T. STA. = 223+61.73$

LEGEND:
 (M) HMA SC IL-9.5D N50 (1 1/2")
 HMA BASE CSE 3
 SUB GRAN MAT B
 (CB) CONC BAR WALL SPL
 PARAPET RAILING

- NOTES:
 1. STATION AND OFFSETS ARE PROVIDED FROM CENTERLINE OF WARRENVILLE ROAD.
 2. SEE ADA RAMP AND DRIVEWAY DETAILS FOR FURTHER CONSTRUCTION DETAILS.



MODEL: \$MODELNAME\$
 FILE: MODEL_712024-04-04-03_Warrenville_03.dgn



DESIGNED - D.M.S.	REVISED - Δ 4/11/24 ZRE
DRAWN - D.M.S.	REVISED -
CHECKED - J.R.S.	REVISED -
DATE - 4/11/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED PLAN
 WARRENVILLE ROAD

SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA. 214+75 TO STA. 225+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	14-00124-04-BR	DUPAGE	208	52
CONTRACT NO. 61114				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts, 3/4 in. dia., holes 1 1/16 in. dia., unless otherwise noted.

Reinforcement bars designated (E) shall be epoxy coated.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments and bridge approach slabs. See sheet S-01 for details.

All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.

Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures", ACI 315.

Reinforcement bar bending dimensions are out to out.

Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.

Contractor shall not scale dimensions from the Contract Plans for construction purposes. Scales shown are for information only.

No construction joints except those shown on the plans will be allowed unless approved by the Engineer.

It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.

Current Rating on File for Existing Structure:

Inventory: HS11
 Operating: HS20
 Live Load Restrictions: Yes (Single Unit Vehicle: 17 ton), (Combination Type 3S-1: 20 ton), (Combination Type 3S-2: 25 ton)

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative and capacities to support the Contractor's equipment.

The fabricator, the Contractor and the beam transportation company shall provide adequate bracing and support for the PPC beams during handling, transporting, storing and erecting to ensure the safety of the personnel associated with the construction of the project.

After the beams are set, all elevations for determining fillet heights shall be taken at one time for all beams within that stage.

The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Slipforming of the parapet walls is not allowed.

All in-stream work, including but not limited to abutment removal, proposed structure work, slope grading and permanent slope stabilization shall be in accordance with the Erosion Control in-stream Sequence of Work and Cofferdam Plan.

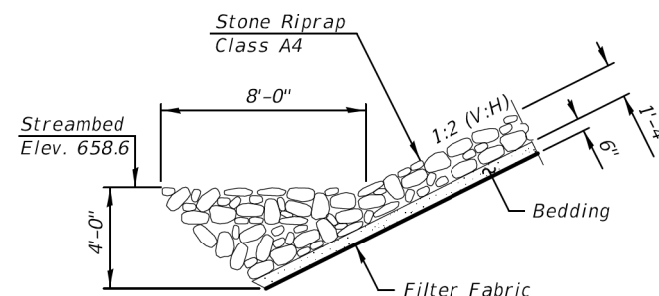
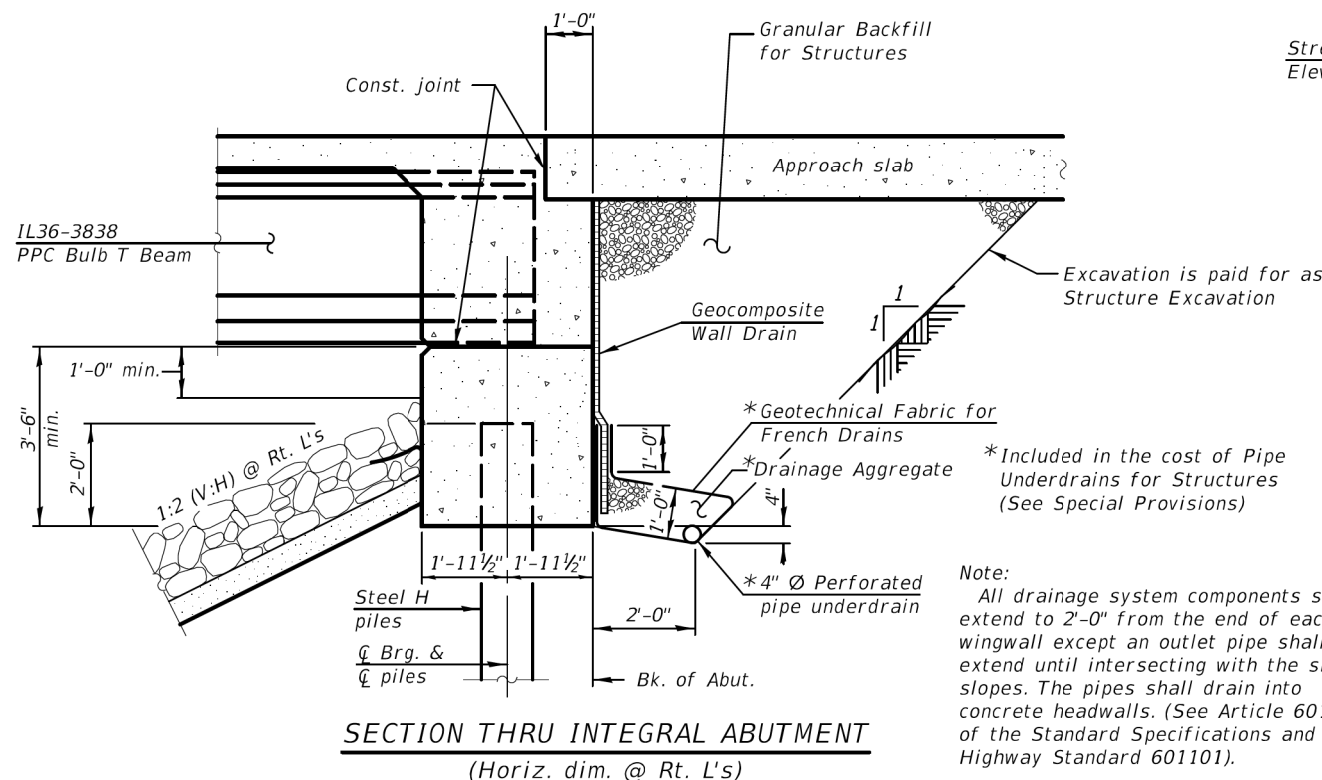
ComEd overhead lines will be relocated. Contractor is responsible for coordination with ComEd at no additional cost to the Owner.

INDEX OF SHEETS

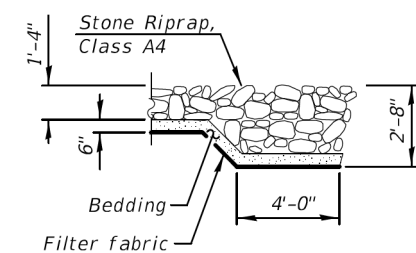
S-01	General Plan and Elevation
S-02	General Notes and Total Bill Of Material
S-03	Substructure Layout
S-04	Temporary Soil Retention System Plan
S-05	Temporary Soil Retention System Details
S-06	Stage Construction
S-07	Temporary Concrete Barrier for Stage Construction
S-08	Top of Slab Elevations - Location Plan
S-09	Top of Slab Elevations
S-10	Top of Slab Elevations
S-11	Top of Slab Elevations
S-12	Top of West Approach Slab Elevations
S-13	Top of East Approach Slab Elevations
S-14	Deck Plan and Cross Section
S-15	Shared Use Path and Parapet Details
S-16	Sidewalk and Parapet Details
S-17	Diaphragm Details
S-18	Deck Miscellaneous Details
S-19	Bridge Approach Slab Plan
S-20	Bridge Approach Slab Details
S-21	Drainage Scupper, DS-11
S-22	Framing Plan and Permanent Bracing Details
S-23	IL36 Beam
S-24	IL36 Beam Details
S-25	West Abutment
S-26	West Abutment Details
S-27	East Abutment
S-28	East Abutment Details
S-29	Bicycle Railing
S-30	HP Pile Details
S-31	Bar Splicer Assembly And Mechanical Splicer Details
S-32	Existing East Abutment Removal Details
S-33	Existing West Abutment Removal Details
S-34	Existing Abutment Removal Details
S-35	Soil Boring Logs
S-36	Soi Boring Logs

TOTAL BILL OF MATERIAL

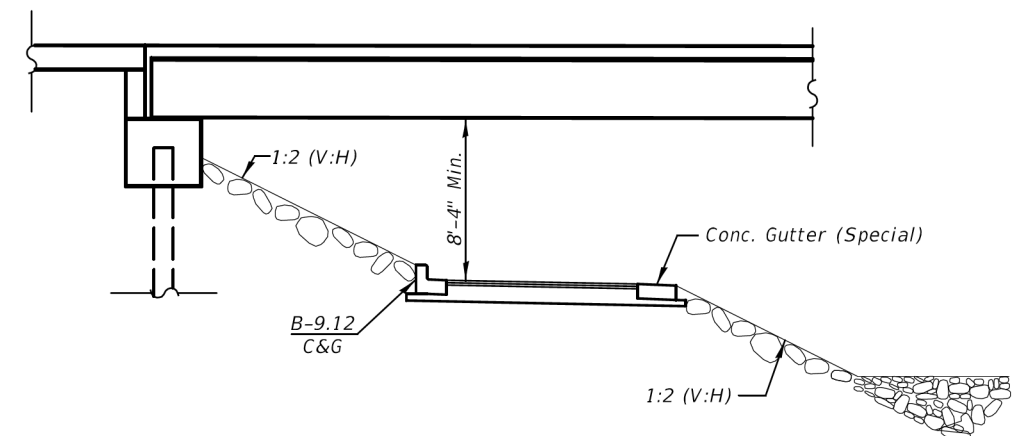
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	1354	1354
Filter Fabric	Sq. Yd.	-	1187	1187
Removal of Existing Structures	Each	-	1	1
Structure Excavation	Cu. Yd.	-	83	83
Concrete Structures	Cu. Yd.	-	167.3	167.3
Floor Drain	Each	4	-	4
Concrete Superstructure	Cu. Yd.	473.7	-	473.7
Bridge Deck Grooving	Sq. Yd.	995	-	995
Protective Coat	Sq. Yd.	1752	-	1752
Concrete Superstructure (Approach Slab)	Cu. Yd.	237.4	-	237.4
Furnishing And Erecting Precast Prestressed Concrete Beams, IL36	Foot	1530	-	1530
Reinforcement Bars, Epoxy Coated	Pound	161470	16920	178390
Bar Splicers	Each	514	100	614
Bicycle Railing	Foot	326	-	326
Parapet Railing	Foot	326	-	326
Furnishing Steel Piles HP12X63	Foot	-	1106	1106
Driving Piles	Foot	-	1106	1106
Test Pile Steel HP12X63	Each	-	2	2
Pile Shoes	Each	-	30	30
Name Plates	Each	1	-	1
Temporary Soil Retention System	Sq. Ft.	-	3277	3277
Granular Backfill For Structures	Cu. Yd.	-	304	304
Geocomposite Wall Drain	Sq. Yd.	-	155	155
Anti-Graffiti Coating	Sq. Ft.	-	995	995
Pipe Underdrains For Structures 4"	Foot	-	224	224
Pile Removal	Each	-	2	2
Drainage Scuppers, DS-11	Each	4	-	4



SECTION B-B
 Stone Riprap Toe Anchor Detail
 For Section C-C see Sheet S-01



SECTION C-C
 Stone Riprap Flank Detail
 For Section C-C see Sheet S-01



SECTION A-A
 For Section A-A see sheet S-01

PLOT DATE = 4/11/2024

KNIGHT Member of WSP	DESIGNED - FJW	REVISED - 04/11/2024 FIM
	CHECKED - LAS	REVISED
	DRAWN - DJC	REVISED
	CHECKED - LAS	REVISED
SCALE - NONE		
DATE - 4/11/2024		

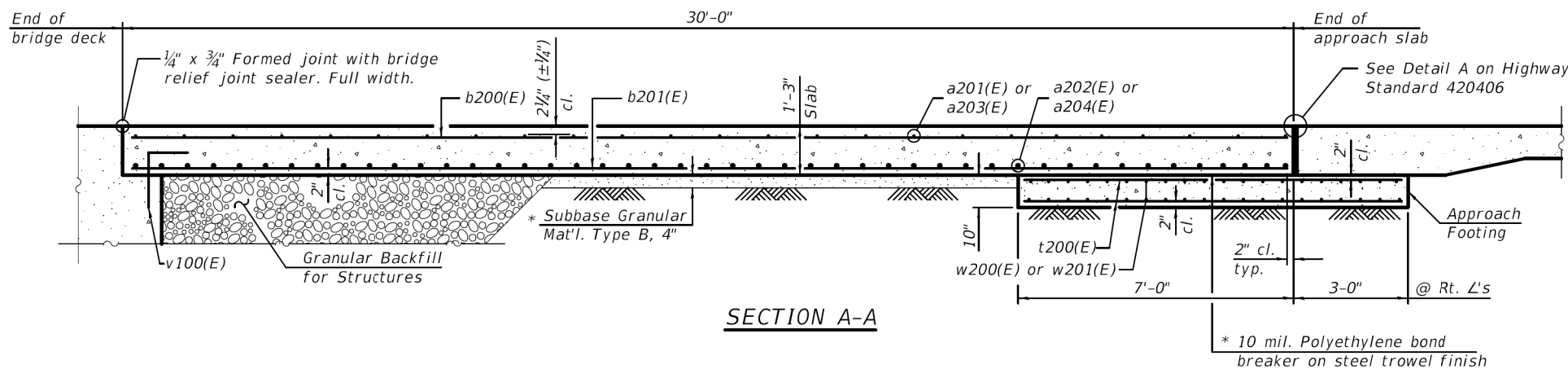
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND TOTAL BILL OF MATERIAL
 STRUCTURE NUMBER 022-3055**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	14-00124-00-BR	DUPAGE	208	120
CONTRACT NO. 61J14				

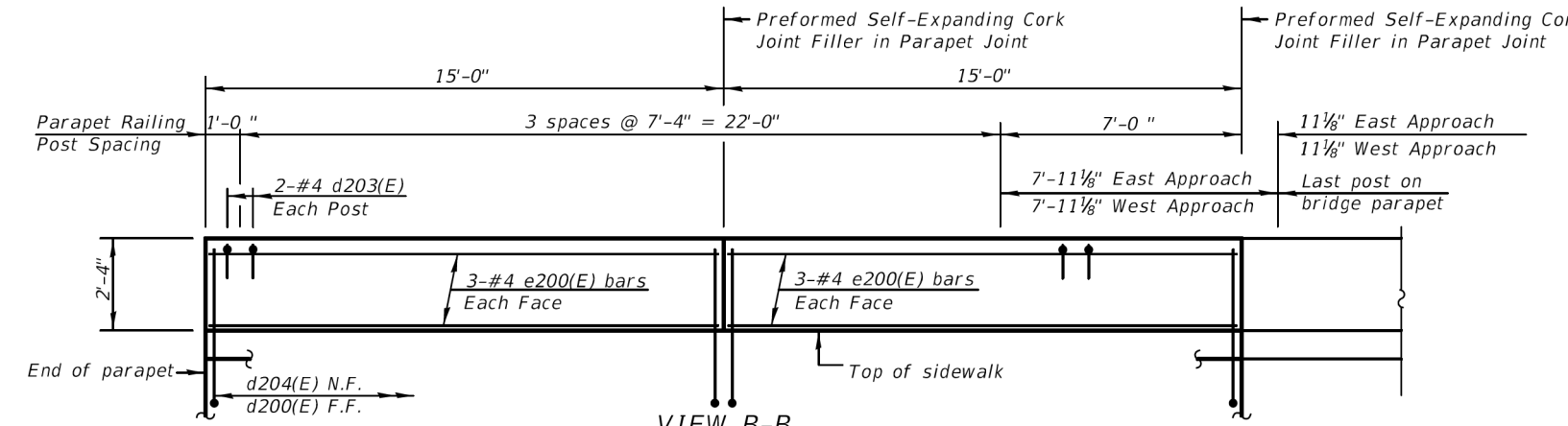
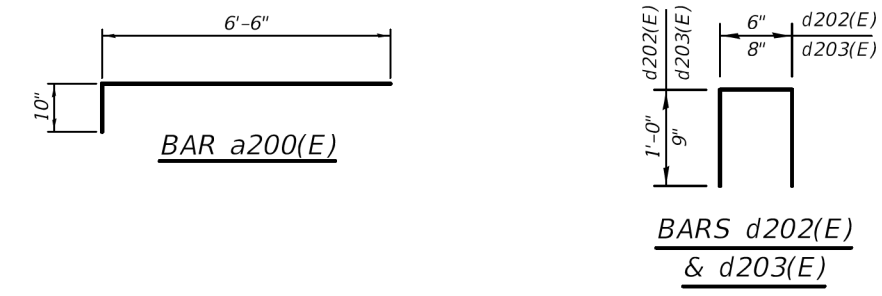
SHEET S-02 OF 36 SHEETS

ILLINOIS FED. AID PROJECT



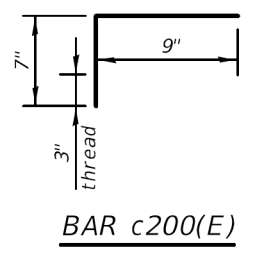
SECTION A-A

Notes:
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet, sidewalk, median, and multi-use path concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet S-2.

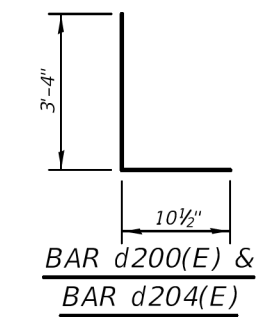


VIEW B-B

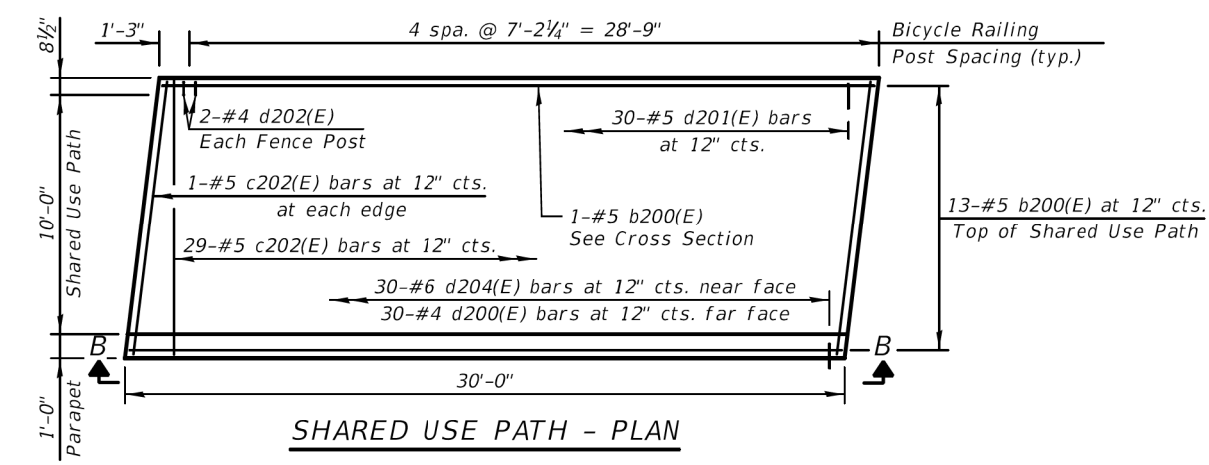
Dimensions along roadway face of parapet
 East Approach parapet shown, West Approach parapet opposite hand



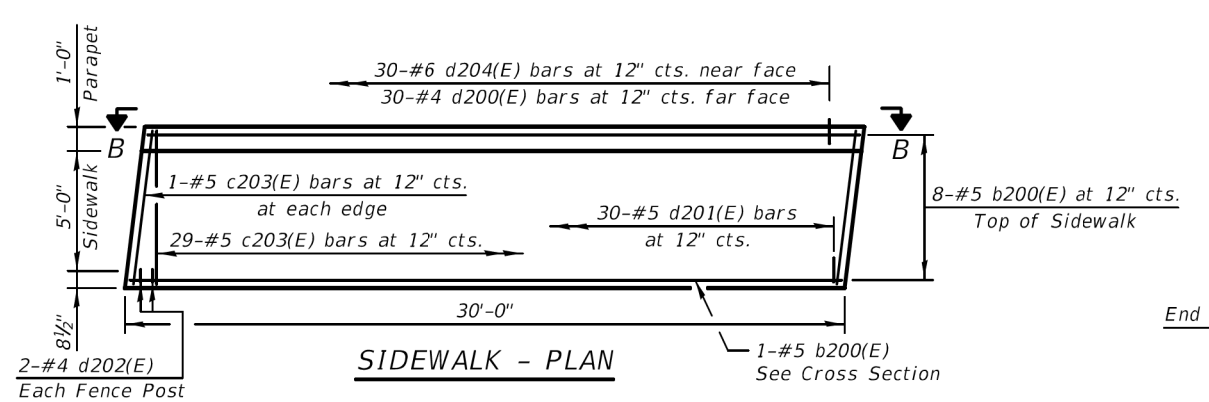
BAR c200(E)



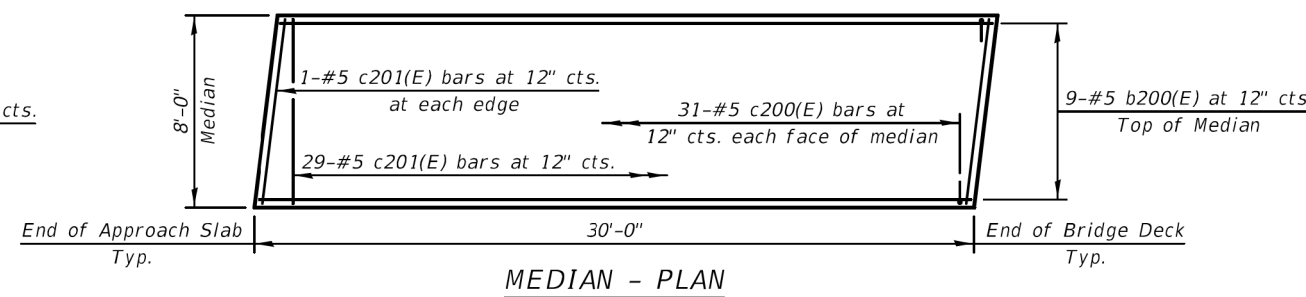
BAR d200(E) & BAR d204(E)



SHARED USE PATH - PLAN



SIDEWALK - PLAN



MEDIAN - PLAN

TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a200(E)	180	#5	7'-4"	┌
a201(E)	90	#5	40'-3"	—
a202(E)	120	#8	40'-3"	—
a203(E)	90	#5	45'-0"	—
a204(E)	120	#8	45'-0"	—
a205(E)	16	#5	4'-6"	—
a206(E)	8	#5	3'-10"	—
b200(E)	322	#5	29'-8"	—
b201(E)	410	#9	29'-8"	—
c200(E)	124	#5	1'-4"	┌
c201(E)	62	#5	7'-8"	—
c202(E)	62	#5	11'-4"	—
c203(E)	62	#5	6'-4"	—
d200(E)	120	#4	4'-3"	┌
d201(E)	120	#4	2'-0"	┌
d202(E)	40	#4	2'-6"	┌
d203(E)	32	#4	2'-2"	┌
d204(E)	120	#6	4'-3"	┌
e200(E)	48	#4	14'-8"	—
t200(E)	348	#4	9'-8"	—
w200(E)	80	#5	40'-3"	—
w201(E)	80	#5	45'-0"	—
Concrete Superstructure			Cu. Yd.	(39.6)
Concrete Superstructure (Approach Slab)			Cu. Yd.	237.4
Concrete Structures			Cu. Yd.	52.8
Bridge Deck Grooving			Sq. Yd.	367
Protective Coat			Sq. Yd.	644
Bar Splicers			Each	290
Reinforcement Bars, Epoxy Coated			Pound	101,140

PLOT DATE = 4/11/2024

KNIGHT Member of WSP

DESIGNED - FJW	REVISION 1 04/11/2024 FIM
CHECKED - LAS	REVISION
DRAWN - DJC	REVISION
CHECKED - LAS	REVISION

SCALE - NONE
 DATE - 4/11/2024

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NUMBER 022-3055
 SHEET S-20 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	14-00124-00-BR	DUPAGE	208	138
CONTRACT NO. 61J14				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

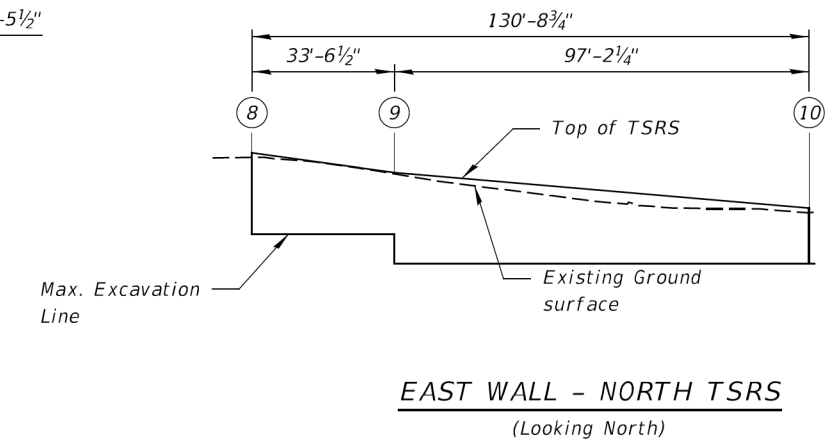
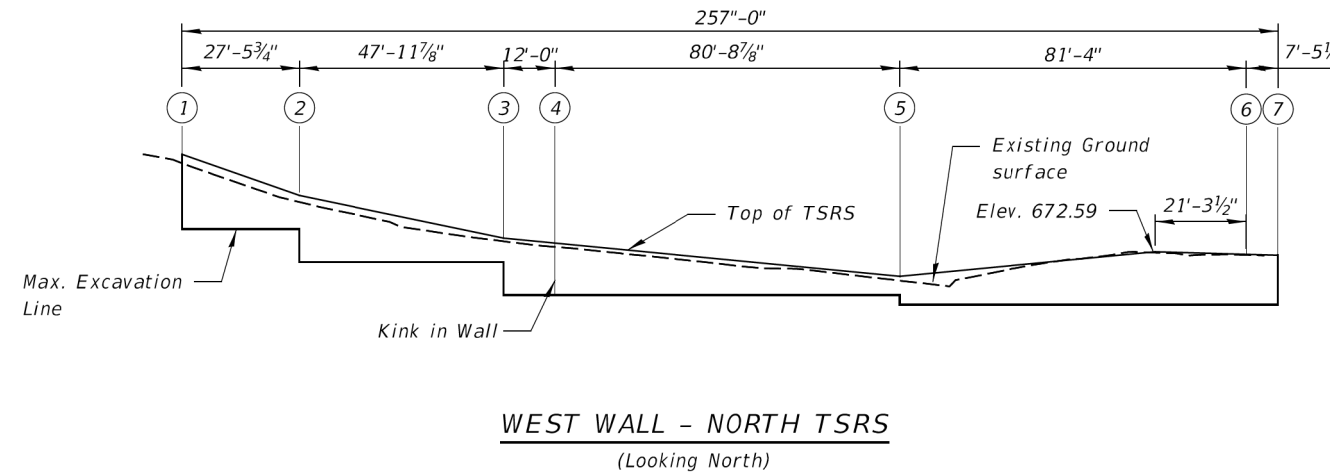
Bars indicated thus 1 x 2-#8 etc. indicate 1 line of bars with 2 lengths per line.
 Reinforcement bars designated (E) shall be epoxy-coated.
 All exposed concrete edges shall be chamfered 3/4" except as noted.
 Backfill remainder of structure excavation and over excavation with the same material specified for roadway embankment.
 Any unsuitable material, as identified by the Engineer, encountered below the proposed footing limits shall be removed in accordance with Article 502.
 Existing Utilities will be removed and relocated prior to construction.
 Contractor shall not scale dimensions from the Contract Plans for construction purposes. Scales shown are for information only.
 No construction joints except those shown on the plans will be allowed unless approved by the Engineer.
 It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
 The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.
 Undercut shall be paid for at the contract unit price per cubic yard as Removal and Disposal of Unsuitable Material for Structures. If any unsuitable material is noted in addition to the areas shown in the plans during construction with unconfined compressive strength less than 1.5 tsf, the unsuitable soils shall be removed and replaced in accordance with Aggregate Subgrade Improvement Special Provision.
 A cantilevered sheet piling design does not appear feasible and additional members or retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

INDEX OF SHEETS

- SA-01 General Plan and Elevation - 1
- SA-02 General Plan and elevation - 2
- SA-03 General Notes, Bill of material and TSRS
- SA-04 Typical Cross Section
- SA-05 West Wall Elevation - 1
- SA-06 West Wall Elevation - 2
- SA-07 East Wall Elevation
- SA-08 Wall Details
- SA-09 Form Liner Details
- SA-10 Bicycle Railing
- SA-11 Soil Boring Logs - 1
- SA-12 Soil Boring Logs - 2
- SA-13 Soil Boring Logs - 3

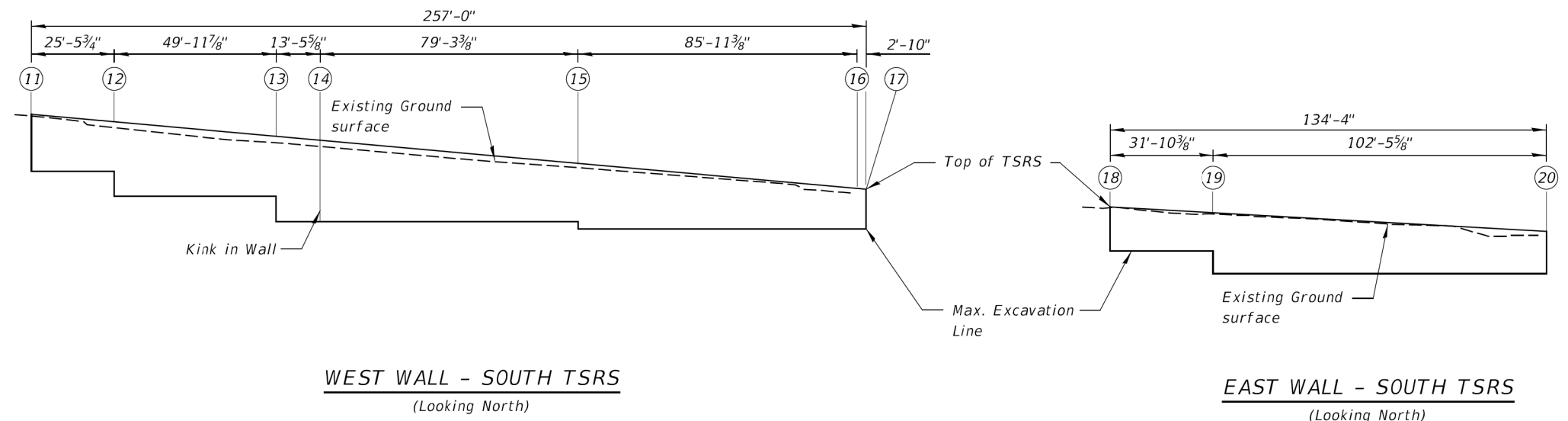
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Porous Granular Backfill	Cu. Yd.	356
Aggregate Subgrade Improvement	Cu. Yd.	146
Structure Excavation	Cu. Yd.	1,101
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	146
Reinforcement Bars, Epoxy Coated	Pound	43,180
Bicycle Railing	Foot	361
Temporary Soil Retention System	Sq. Ft.	5,895
Concrete Structures (Retaining Wall)	Cu. Yd.	400
Geocomposite Wall Drain	Sq. Yd.	268
Pipe Underdrains for Structures 4"	Foot	401
Concrete Surface Color Treatment	Sq. Ft.	1,746
Anti-Graffiti Coating	Sq. Ft.	1,972
Form Liner Textured Surface, Special	Sq. Ft.	1,746



TSRS ELEVATIONS

Mark	Station	Offset	T/TSRS	B/Excavation Elev.
1	212+74.93	47.27	684.01	675.24
2	213+01.05	47.57	679.18	671.39
3	213+49.00	49.16	674.18	667.53
4	213+61.01	49.56	673.60	667.53
5	214+41.86	49.88	669.71	666.41
6	215+23.09	50.27	672.30	666.41
7	215+31.74	59.56	672.20	666.41
8	216+07.07	49.50	673.81	664.29
9	216+40.61	49.50	671.50	660.83
10	217+37.80	49.50	667.35	660.83
11	212+74.99	33.21	684.01	675.24
12	212+99.51	33.62	682.87	671.39
13	213+49.51	34.16	680.64	667.53
14	213+62.68	34.63	680.03	667.53
15	214+41.93	34.90	676.48	666.41
16	214+27.90	35.37	672.64	666.41
17	215+31.74	49.94	672.49	666.41
18	216+07.14	40.50	671.08	664.29
19	216+39.01	40.50	670.19	660.83
20	217+37.80	38.00	667.35	660.83



PLOT DATE = 4/11/2024

KNIGHT
Member of WSP

DESIGNED - NR	CHECKED - MS	SCALE - NONE	DATE - 4/11/2024
REVISOR - FIM	DRAWN - MN	CHECKED - MS	

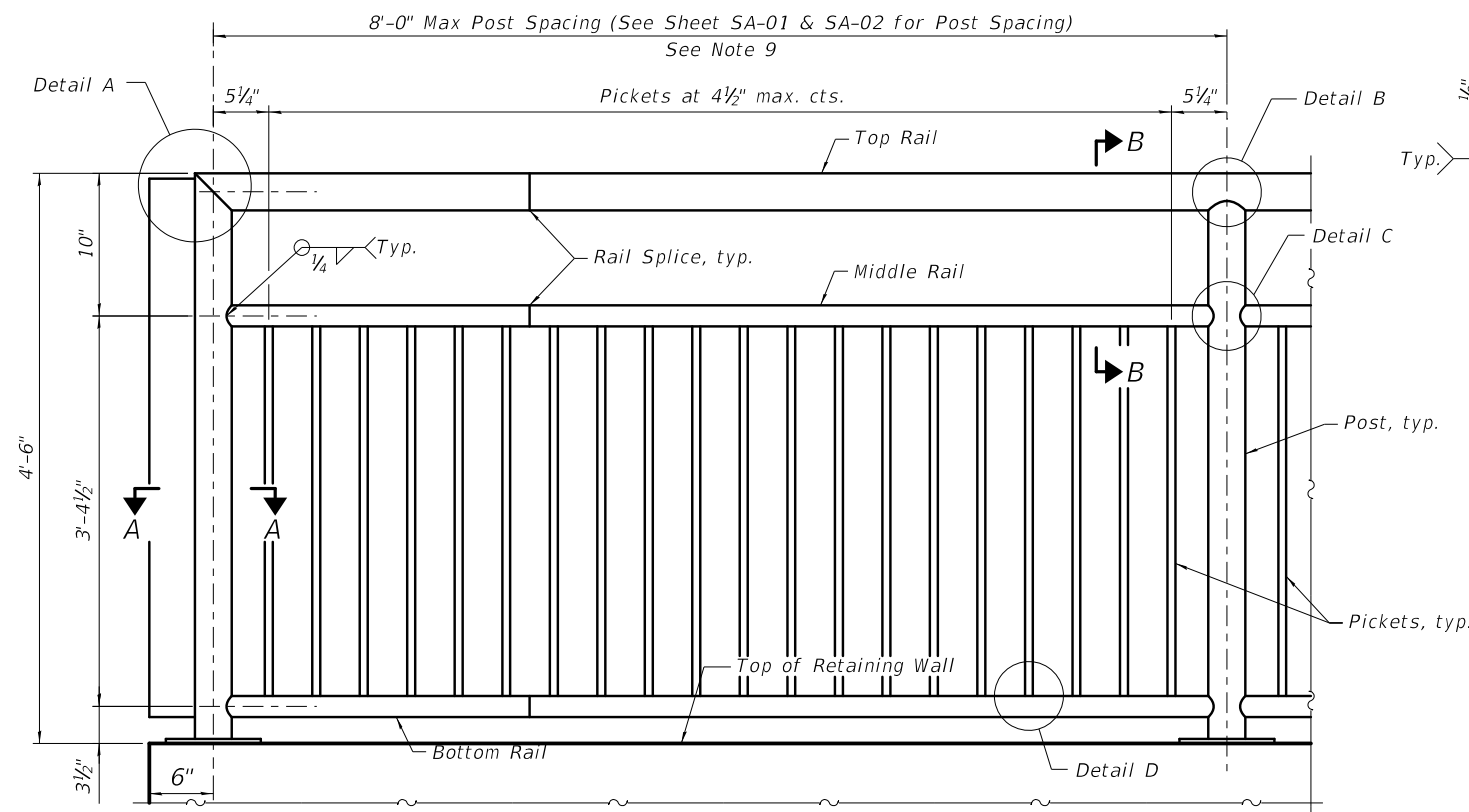
REVISION 1	04/11/2024	FIM
REVISION		
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REVISION		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

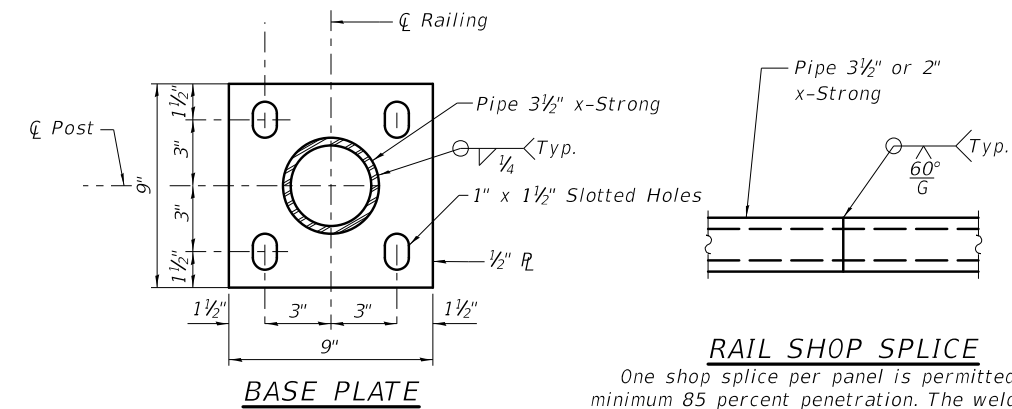
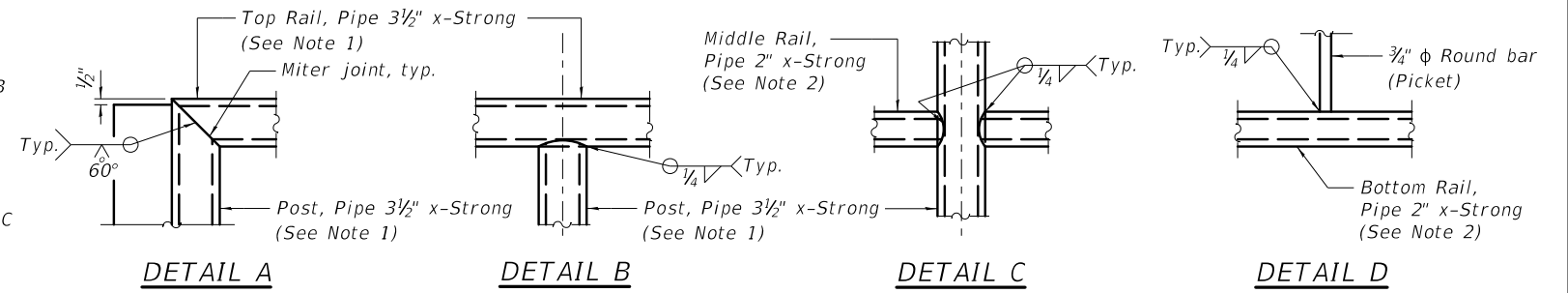
GENERAL NOTES, BILL OF MATERIAL AND TSRS
EAST & WEST RETAINING WALLS

SHEET SA-03 OF 13 SHEETS

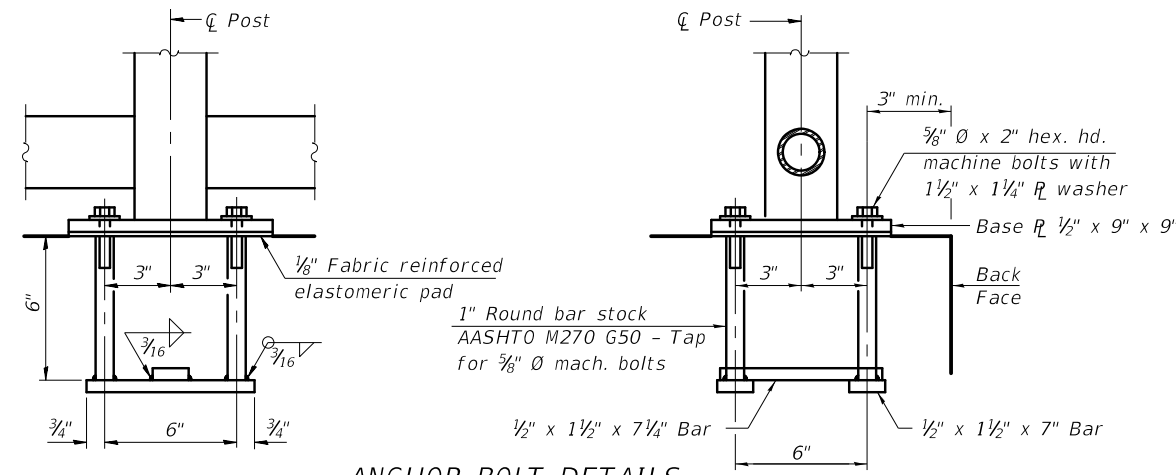
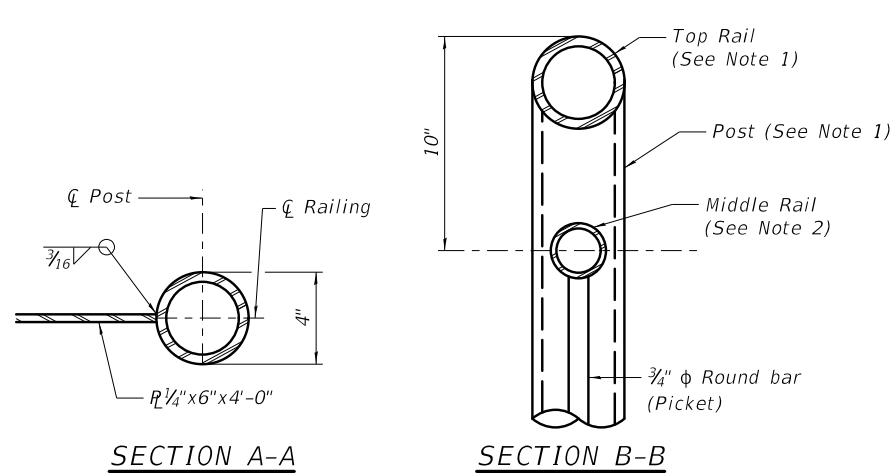
F.A.U. RTE. 1479	SECTION 14-00124-00-BR	COUNTY DUPAGE	TOTAL SHEETS 208	SHEET NO. 157
CONTRACT NO. 61J14				
ILLINOIS FED. AID PROJECT				



BICYCLE RAILING ELEVATION

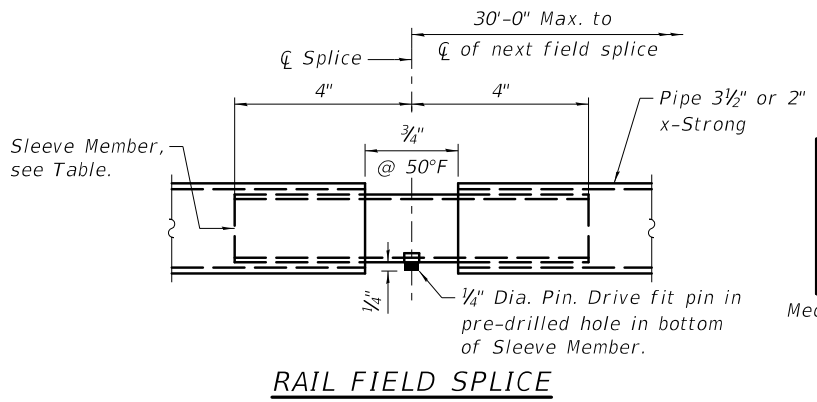


RAIL SHOP SPLICE
One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth



ANCHOR BOLT DETAILS
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

- Notes:
1. Use Pipe 3 1/2" x-Strong (4" O.D., 0.318" wall thickness) for posts and top rail. Provide holes as needed in post and top rail for powder coating drainage and hanging. Plumb all posts.
 2. Use 2" Ø x-Strong Pipe (2.380" O.D., 0.218" wall thickness) for middle and bottom rails. Parallel to top of retaining wall. Provide holes as needed for powder coating drainage and hanging.
 3. Pipe will conform to ASTM-A53 Grade B. Steel plates and steel bars will conform to AASHTO M270 Gr. 50.
 4. All rail elements shall be powder coated according to ASTM D7803.
 5. Railing and any wall or other surface adjacent to them shall be free of any sharp or abrasive elements.
 6. Submit shop drawings to the Engineer unless noted otherwise.
 7. For all railings, erection drawings shall be submitted for approval to ensure proper installation. Drawings shall show field splice locations, railing expansion joints (placed at the existing joint locations in the reinforced concrete wall), post spacing, anchor bolt drilling and setting procedures, profile slope, splice joint locations, shim plates, and railing lengths with identification showing where each railing goes on the layout.
 8. Railing shall be fabricated such that longitudinal elements are parallel to the top of sidewalk and posts are plumb. Contractor shall field verify sidewalk profile slope.
 9. All exposed edges will be rounded or chamfered to approximately 1/8" by grinding.



SLEEVE MEMBER

Rail Size	Sleeve Member
3 1/2" x-Strong	3 1/4" Ø MT Pipe (3 1/4" O.D., 0.120" wall thickness)
2" x-Strong	1 13/16" Ø MT Pipe (1 13/16" O.D., 0.120" wall thickness)

Mechanical tubing (MT) will conform to ASTM A513 Grade 1015 or higher.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	361

PLOT DATE = 4/2/2024



DESIGNED - NR	REVISD - 04/02/2024 FIM
CHECKED - MS	REVISD
DRAWN - MN	REVISD
CHECKED - MS	REVISD

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BICYCLE RAILING
EAST & WEST RETAINING WALLS**

SHEET SA-10 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1479	14-00124-00-BR	DUPAGE	208	164
CONTRACT NO. 61J14				

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