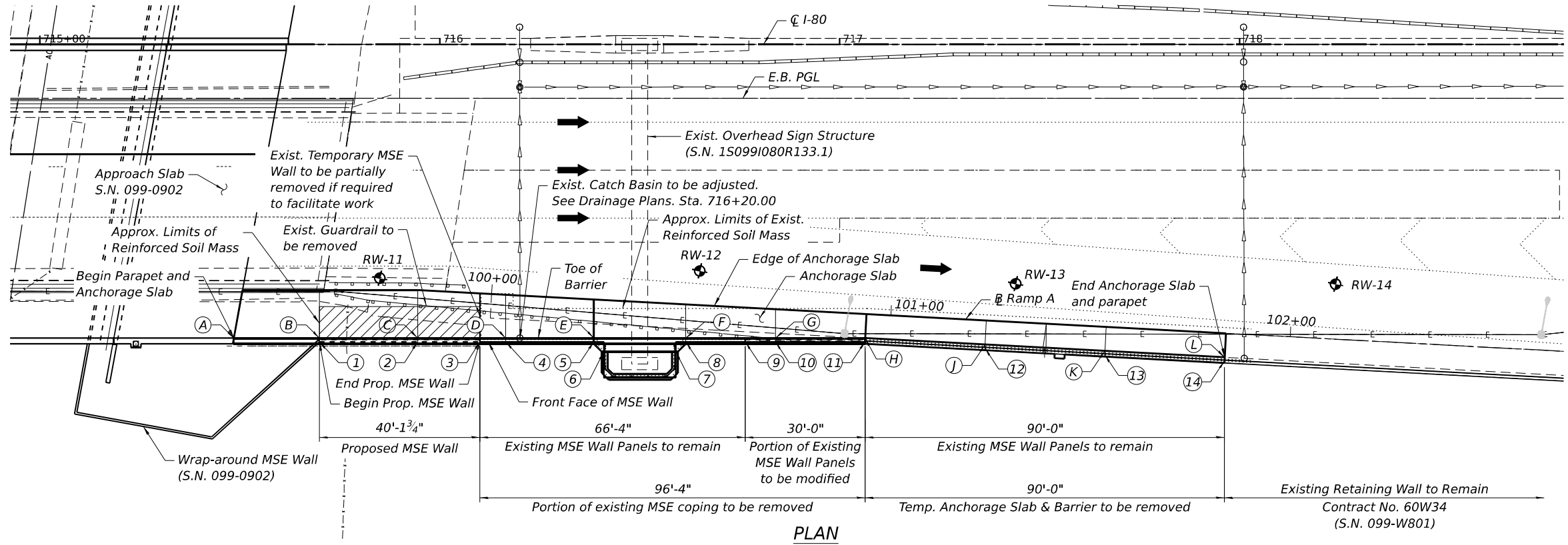
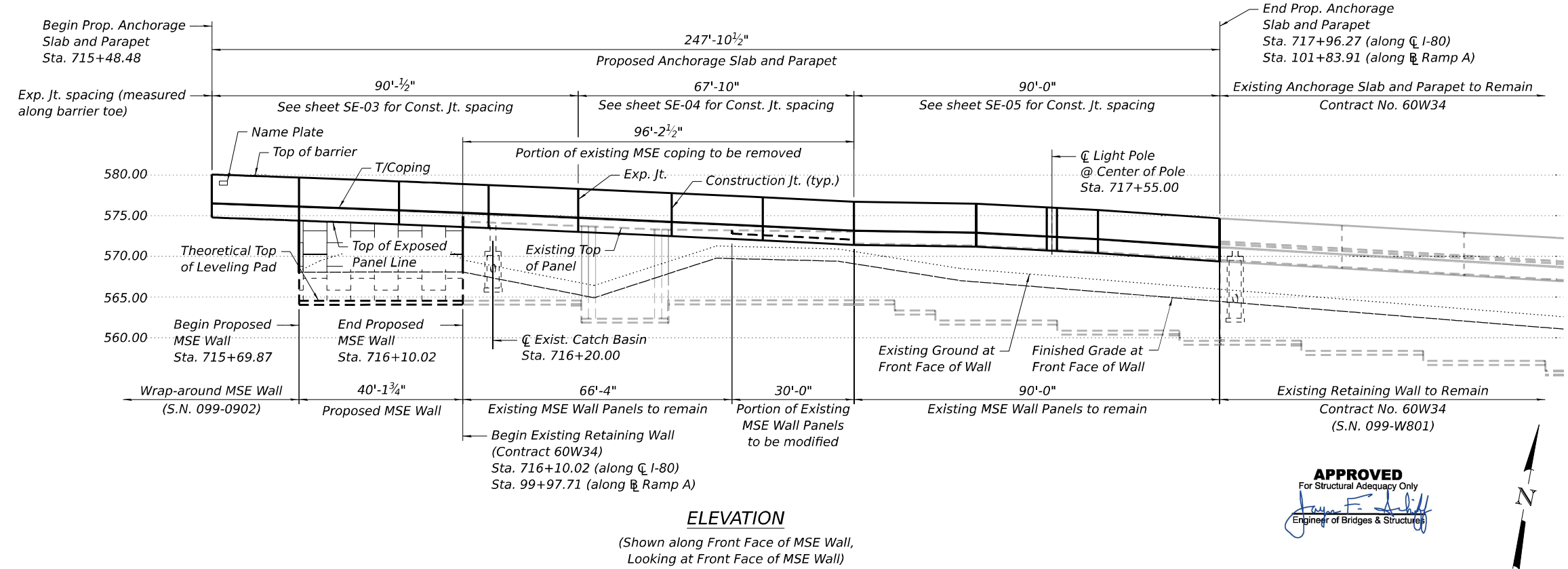


Bench Mark: Square cut on middle step of S.E. wingwall of bridge over Richards WB roadway. Elev. = 558.98
Existing Structure: The eastern portion of SN 099-W801 from Sta. 716+10.02 to Sta. 719+81.55 was constructed in 2024 as Project NHPP-HB1K (096), Section 2013-008B. The existing structure is a mechanically stabilized earth retaining wall with precast panels. The wall supports a CIP anchorage slab with a 44" tall barrier. Existing wall is to remain. Staged construction shall be utilized to maintain traffic during construction. No salvage.



- NOTES**
- Offsets are measured from CL I-80 to front face of MSE wall panels for MSE Wall Control Points.
 - Offsets and elevations are measured from CL I-80 to proposed gutter line and toe of the barrier for Anchorage Slab Control Points.

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS
 $f'_c = 4,000 \text{ psi}$ (Anchorage Slab and Parapet)
 $f_y = 60,000 \text{ psi}$ (Reinforcement)
PRECAST UNITS
 $f'_c = 4,500 \text{ psi}$ (Precast Panels)

DESIGN LOADS

The MSE Wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft of wall.

HNTB CORPORATION

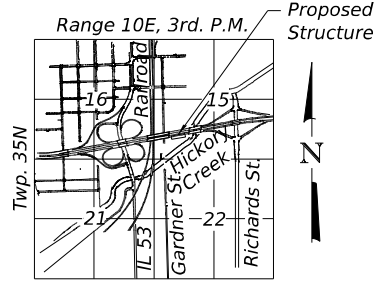


DATE SIGNED: 10/31/2025
ALAN P. CUBAS, P.E., S.E.
NO. 081-008238
EXP. DATE: 11/30/2026

SEAL AND SIGNATURE APPLY TO:
SHEETS 1-10

LEGEND:

- Exist. Light Pole
- Boring
- Exist. Lighting Power Pole
- Approximate Limits of Reinforced Soil Mass
- Control Point



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

RETAINING WALL 2, EB I-80

F.A.I. RTE. 80 - SEC. 2017-057F

WILL COUNTY

STATION 715+69.87 TO 716+10.02

STRUCTURE NO. 099-W801

MODEL: SHEET
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PLOT SCALE =	CHECKED - APC	REVISED -
PLOT DATE =	DRAWN - LK	REVISED -
	CHECKED - MVV	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 099-W801 (EB)

SHEET SE-01 OF SE-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	901
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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HNTB

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PLOT SCALE	=	DRAWN -	LK	REVISED -	
PLOT DATE	=	CHECKED -	MVV	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 099-W801 (EB)

SHEET SE-02 OF SE-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	902
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

SHOULDER TRANSITION

FAI-80 Sta.	Width	Slope
715+48.48	12'-0"	-2.00%
715+51.00	12'-0"	-2.00%
716+11.00	11'-1 $\frac{3}{8}$ "	-4.00%
717+96.27	6'-0"	-4.00%

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 7	Each	1
Structure Excavation	Cu. Yd.	313
Concrete Superstructure	Cu. Yd.	155.6
Protective Coat	Sq. Yd.	440
Reinforcement Bars, Epoxy Coated	Pound	22,550
Pipe Handrail	Foot	29
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	388

LEGEND:

-  Approximate Limits of Removal of Existing Moment Slab, Barrier, and Coping to be paid for under "Removal of Existing Structures No. 7"
-  Approximate Limits of Existing Panel Removal to be paid for under "Removal of Existing Structures No. 7"

SUGGESTED SEQUENCE OF CONSTRUCTION

- Remove existing temporary anchorage slab, temporary barrier, temporary coping, portion of existing panels as shown in the removal plan, and lighting.
- Excavate for proposed MSE wall construction. Utilize existing temporary MSE wall at west end of existing MSE wall. Remove a top portion of existing temporary MSE wall 1' below proposed anchorage slab. Cost of this work to be paid for under "Removal of Existing Structures No. 7".
- Construct proposed MSE wall in EB Stage II simultaneously with the wrap-around MSE of adjacent SN 099-0902 prior to constructing the bridge approach slab.
- Construct anchorage slab and barrier.

INDEX OF SHEETS

SE-01	General Plan and Elevation
SE-02	General Data
SE-03	Detailed Plan and Elevation 1
SE-04	Detailed Plan and Elevation 2
SE-05	Detailed Plan and Elevation 3
SE-06	Wall Details 1
SE-07	Wall Details 2
SE-08	Wall Details 3
SE-09	Soil Boring Logs 1
SE-10	Soil Boring Logs 2

ANCHORAGE SLAB CONTROL POINTS

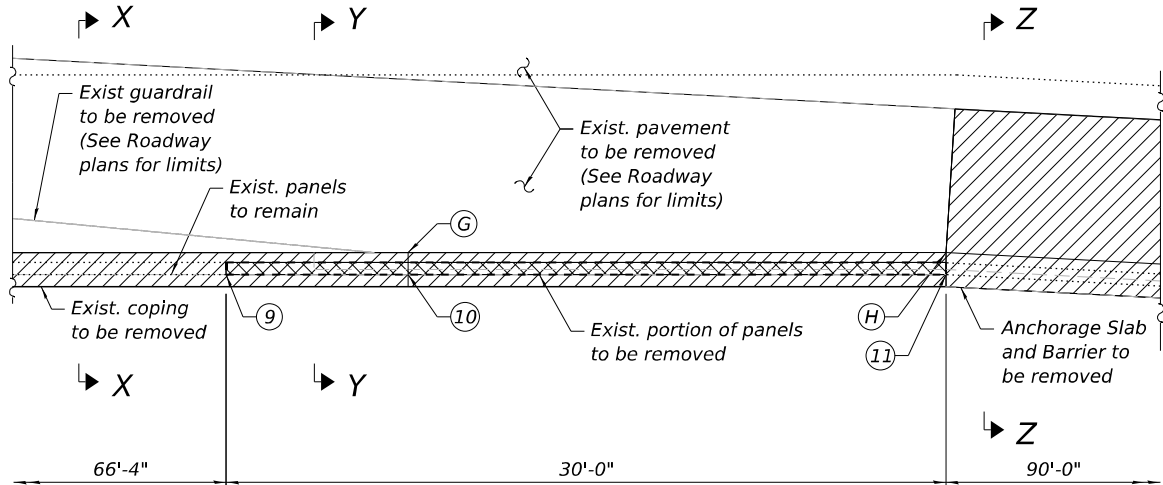
Description	FAI-80 Sta.	Offset	Elev. @ Toe of Barrier
Point A	715+48.48	73.50	576.46
Point B	715+69.87	73.50	576.00
Point C	715+94.45	73.50	575.44
Point D	716+16.48	73.50	574.95
Point E	716+38.52	73.50	574.51
Point F	716+61.52	73.50	574.02
Point G	716+83.93	73.50	573.51
Point H	717+06.35	73.50	572.98
Point J	717+36.36	75.10	572.17
Point K	717+66.32	76.71	571.31
Point L	717+96.27	78.31	570.44

MSE WALL CONTROL POINTS

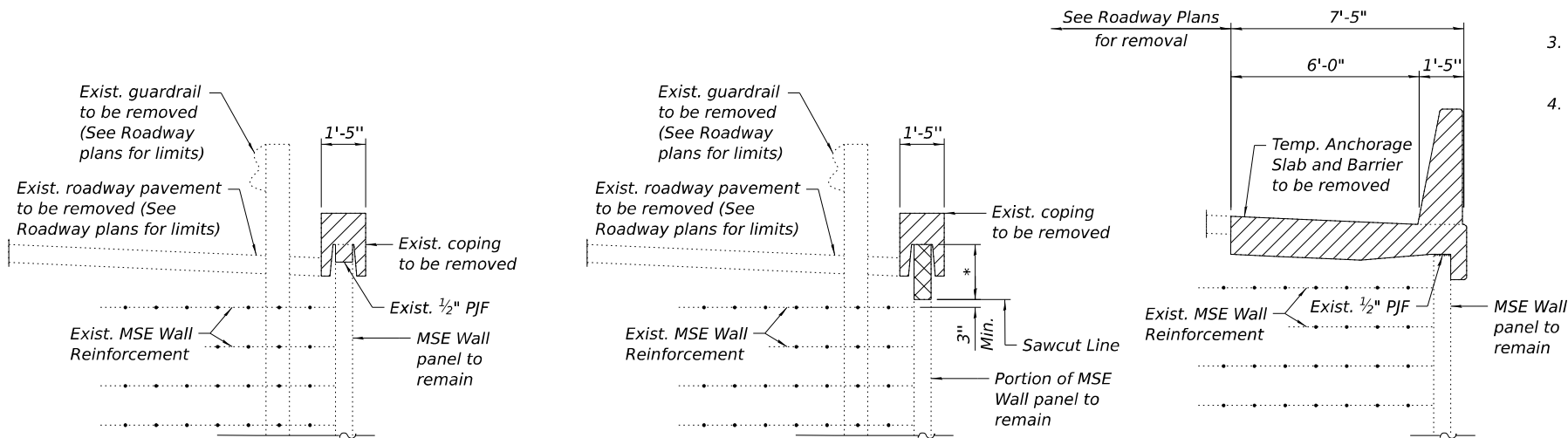
Description	FAI-80 Sta.	Offset	T/ Exposed Panel Line Elev	Finished Grade Elev @ F.F. Wall	T/ Theoretical Leveling Pad Elev	Existing Grade Elev @ F.F. Wall
Point 1	715+69.87	74.42 Rt.	574.38	567.75	564.25	568.18
Point 2	715+94.45	74.42 Rt.	573.82	567.75	564.25	570.77
Point 3	716+10.02	74.42 Rt.	573.46	567.75	564.25	569.25
Point 4	716+16.48	74.42 Rt.	573.33	567.35	564.25	568.85
Point 5	716+38.52	74.42 Rt.	572.88	565.30	562.00	566.80
Point 6	716+41.01	76.92 Rt.	572.88	565.03	562.00	566.53
Point 7	716+59.01	76.92 Rt.	572.39	567.36	562.00	568.86
Point 8	716+61.52	74.42 Rt.	572.39	565.13	562.00	566.63
Point 9	716+76.35	74.42 Rt.	572.06	567.36	564.25	568.86
Point 10	716+83.93	74.42 Rt.	571.89	567.32	564.25	568.82
Point 11	717+06.35	74.42 Rt.	571.36	567.05	564.25	568.55
Point 12	717+36.31	76.02 Rt.	570.55	566.52	561.75	568.02
Point 13	717+66.27	77.62 Rt.	569.69	565.31	560.50	566.81
Point 14	717+96.22	79.23 Rt.	568.82	564.11	559.25	565.61

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- Slipforming of the barrier is not allowed.
- The proposed wall panels shall match the existing panel height, width, spacing, color, and finish.



REMOVAL PLAN



SECTION X-X

SECTION Y-Y

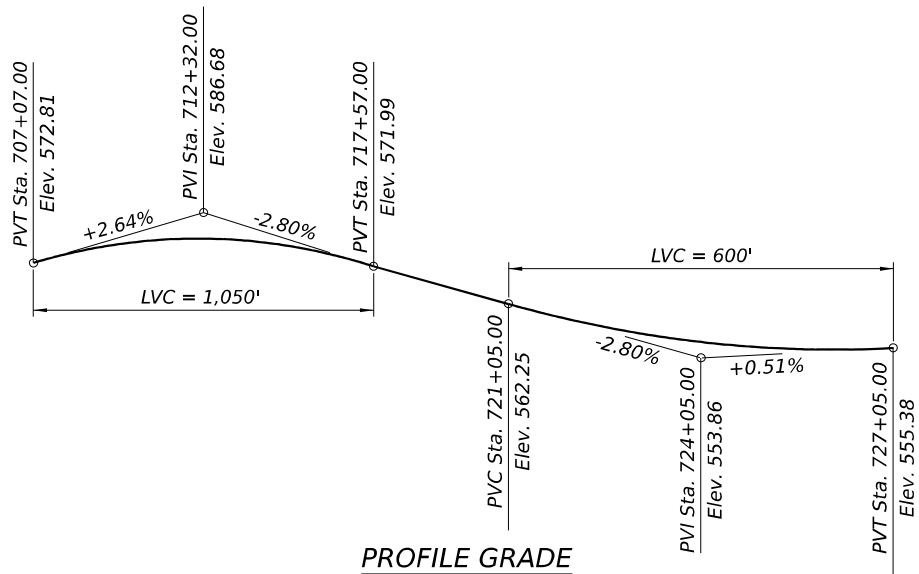
* Varies, 5" Min., 1'-0 $\frac{7}{8}$ " Max.

SECTION Z-Z

STA. 715+69.87 TO 716+10.02
BUILT 202_ BY
STATE OF ILLINOIS
F.A.I. RTE. 80-SEC. 2017-057F
LOADING HL-93
STR. NO. 099-W801

NAME PLATE

See Std. 515001



PROFILE GRADE

(Along PGL of EB & WB Roadway)
(The profile grade shows the final elevations after grinding)

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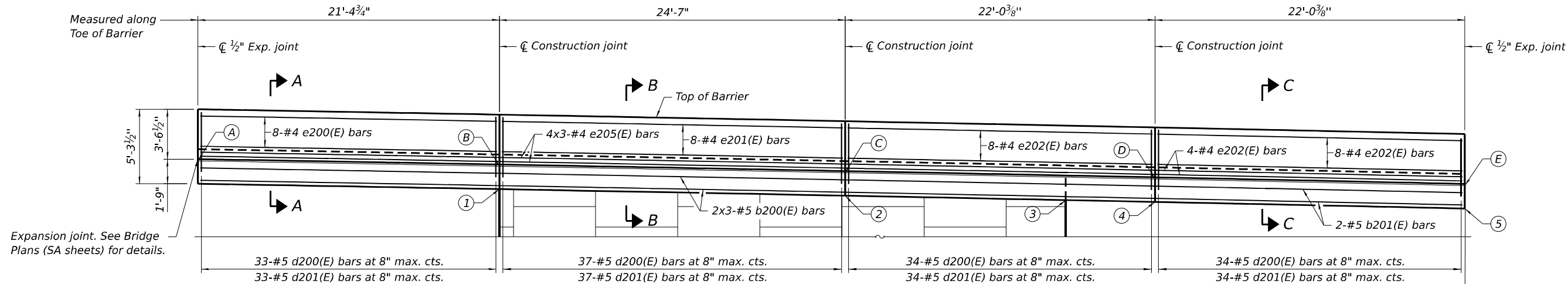
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

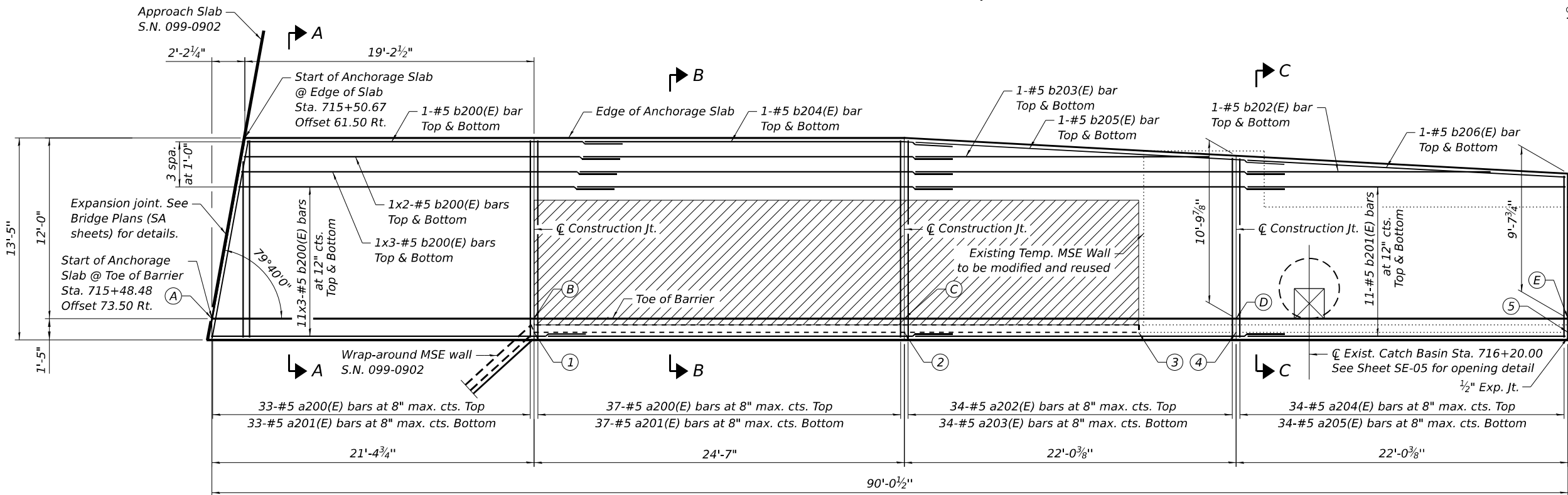
DETAILED PLAN AND ELEVATION 1
STRUCTURE NO. 099-W801 (EB)

SHEET SE-03 OF SE-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	903
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		



ELEVATION
(Looking North)
(Conduit not shown for clarity)



PARTIAL PLAN
(Conduit not shown for clarity)

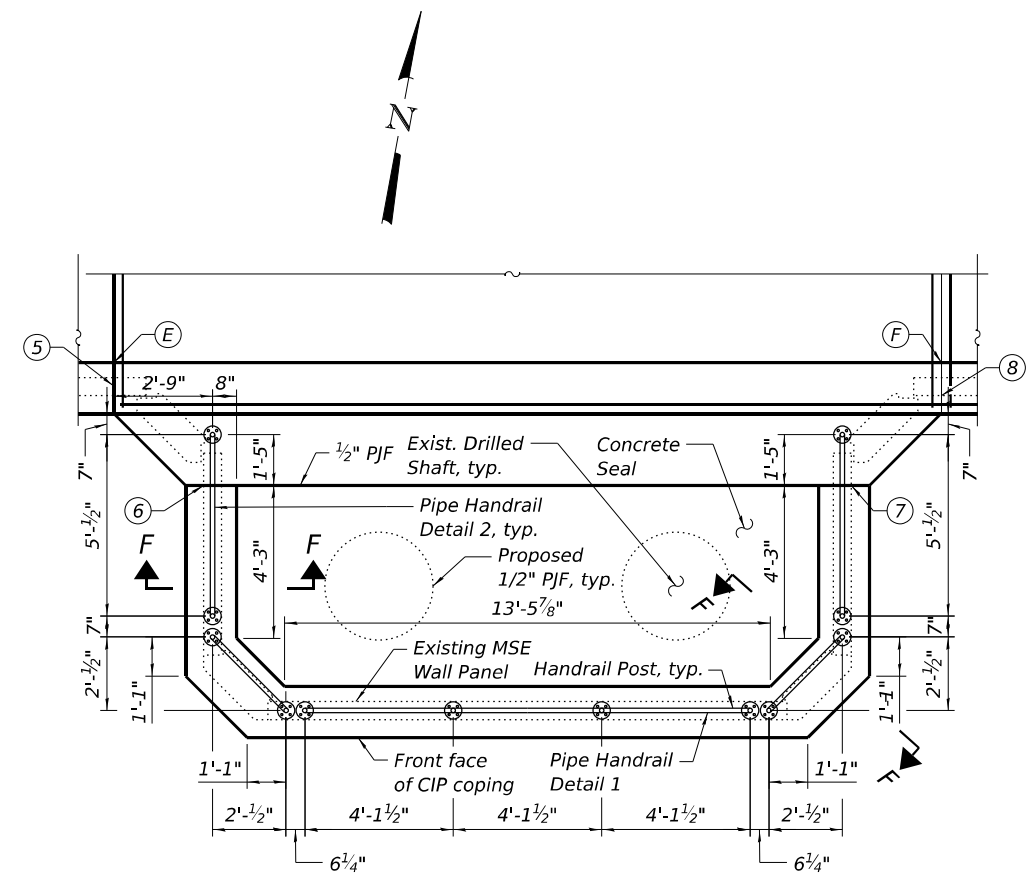
MIN LAP LENGTH
#4 Bar - 2'-8"
#5 Bar - 3'-6"

LEGEND:

Approximate Limits of Reinforced Soil Mass

NOTES:

1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control point station, offset, and elevations, see Sheet SE-02.
3. For detail of Sections A-A, B-B, and C-C see Sheet SE-06.
4. For joint details, see Sheet SE-07.
5. For Reinforcement Bars, Epoxy Coated Bill of Materials, see Sheet SE-08.



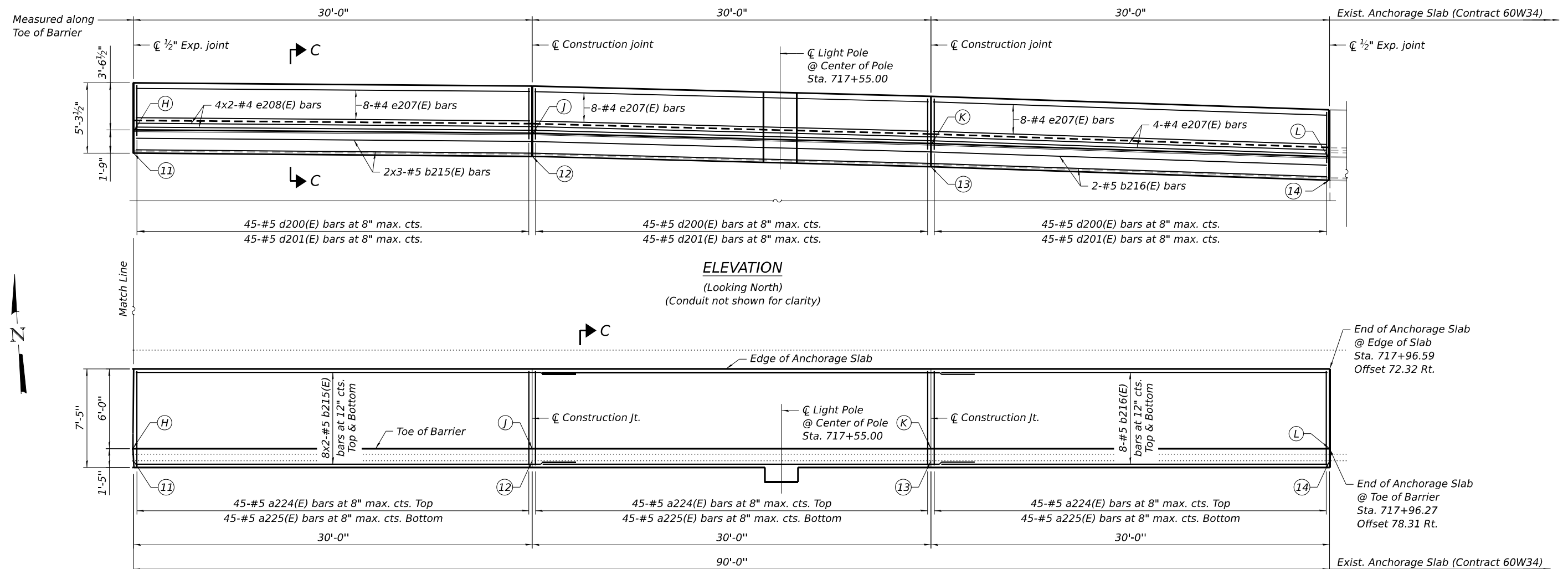
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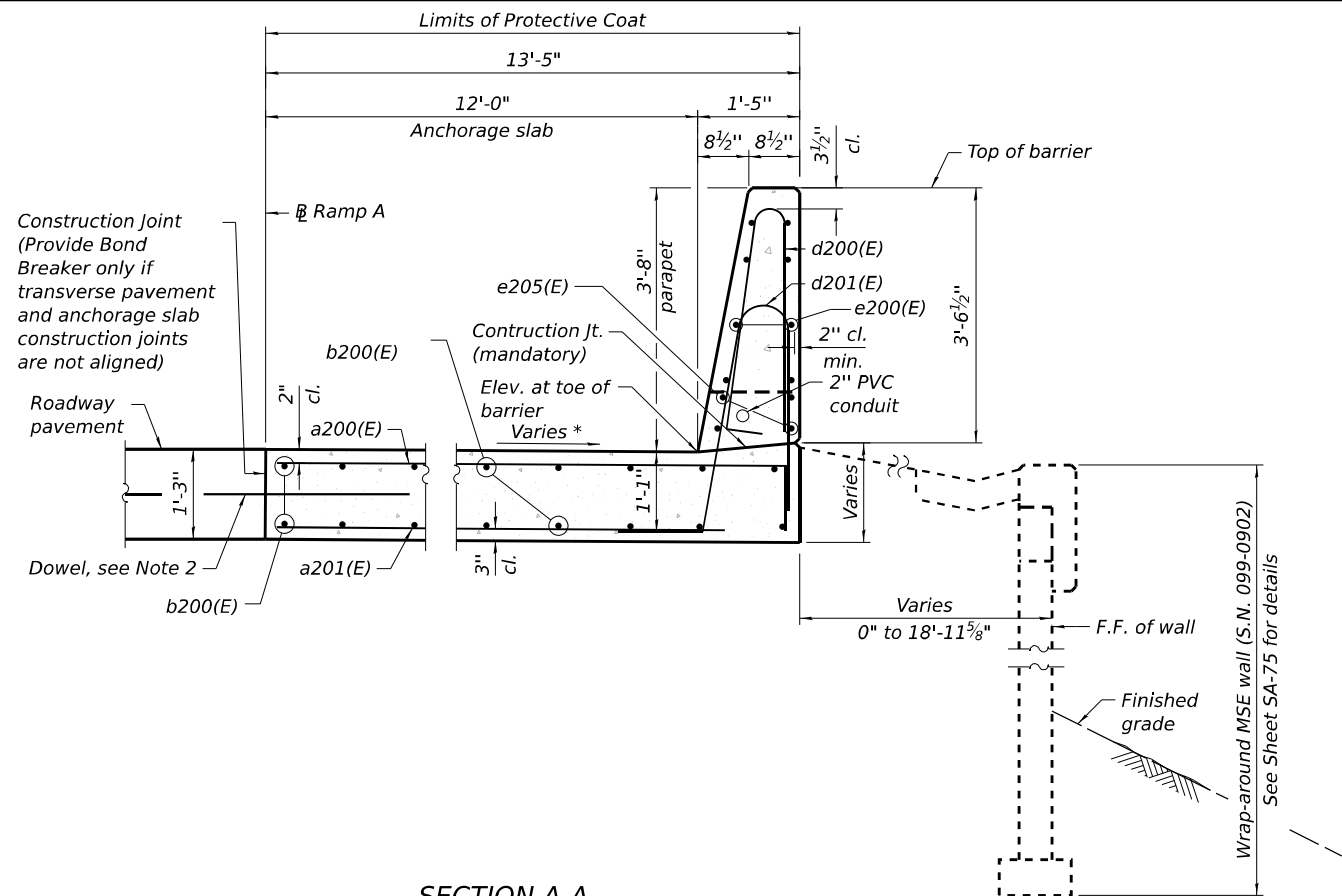
1. For notes, see Sheet SE-03.
2. For detail of Sections D-D and E-E, see Sheet SE-07.
3. For detail of Section F-F and Pipe Handrail details, see Sheet SE-08.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

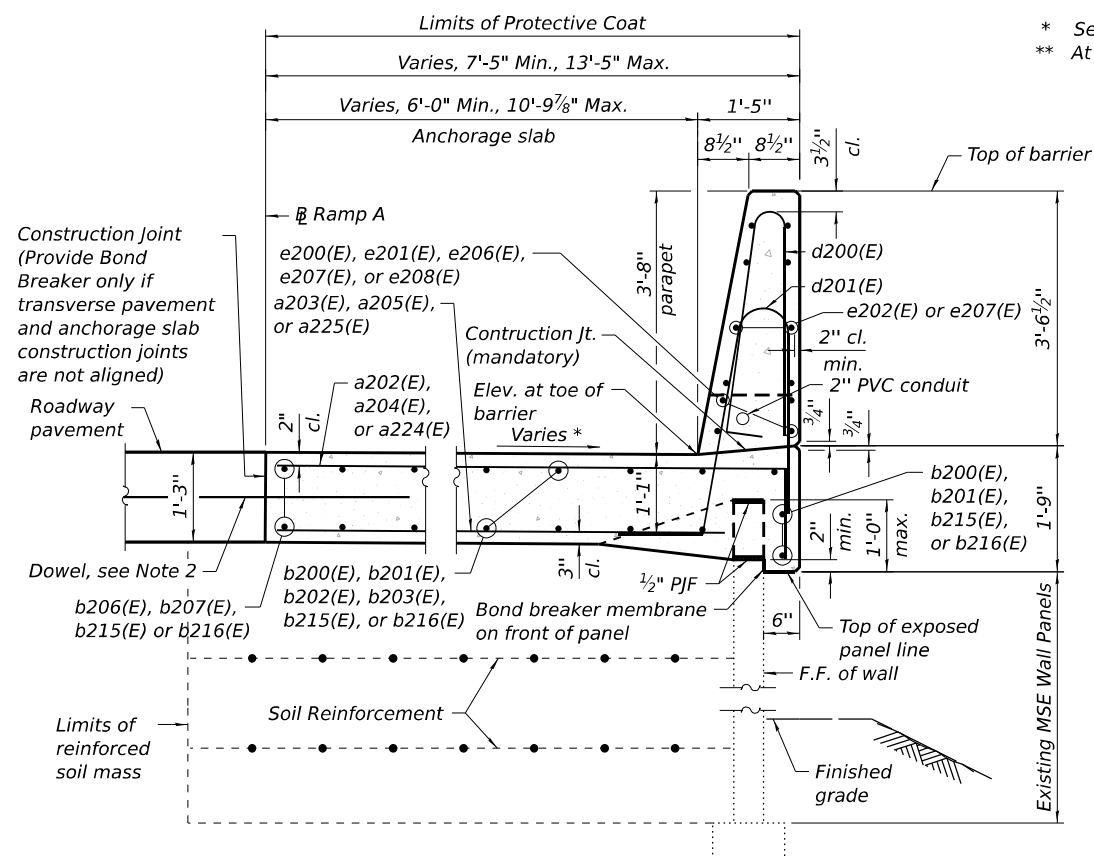
DETAILED PLAN AND ELEVATION 2
STRUCTURE NO. 099-W801 (EB)

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		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		

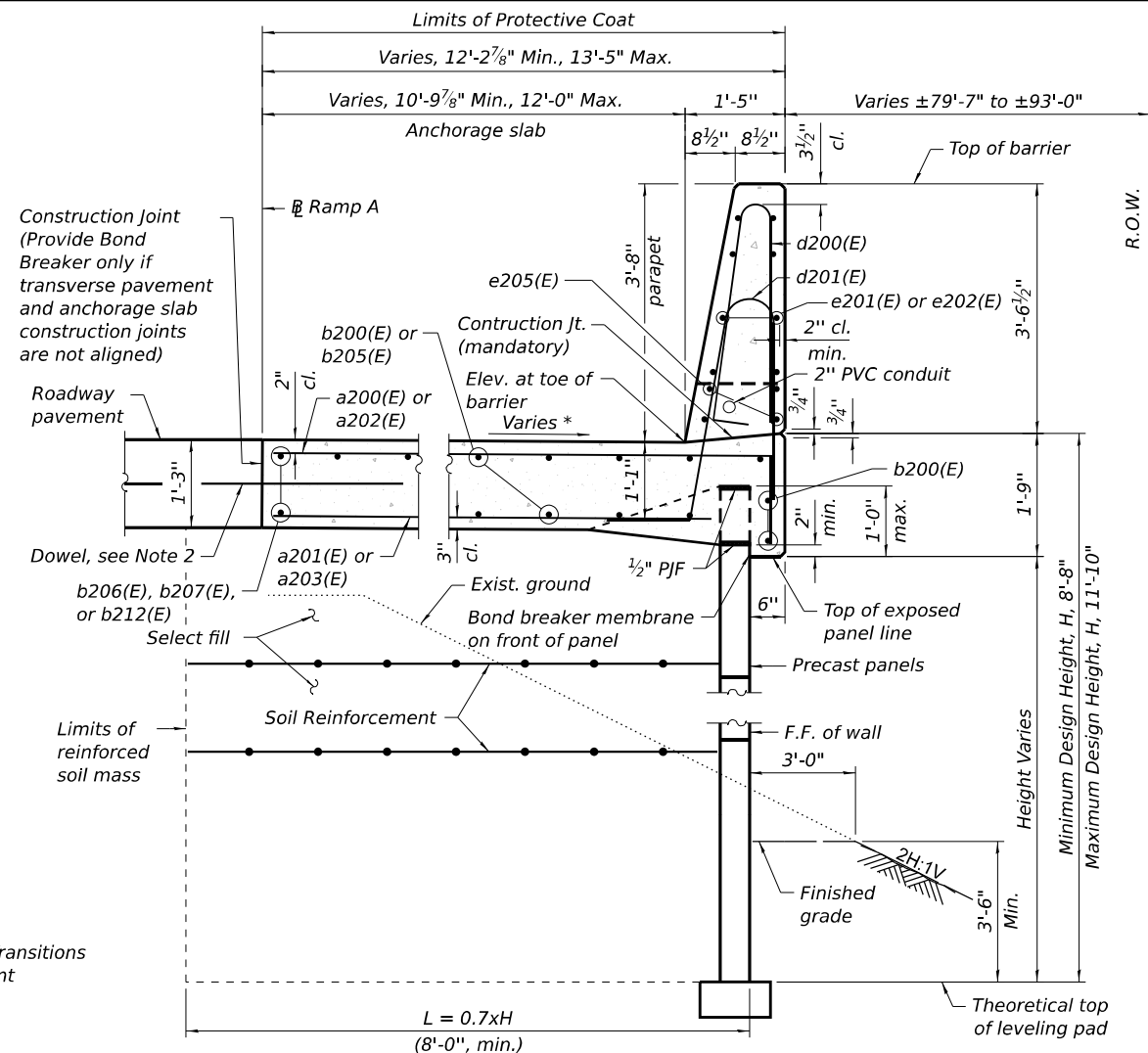




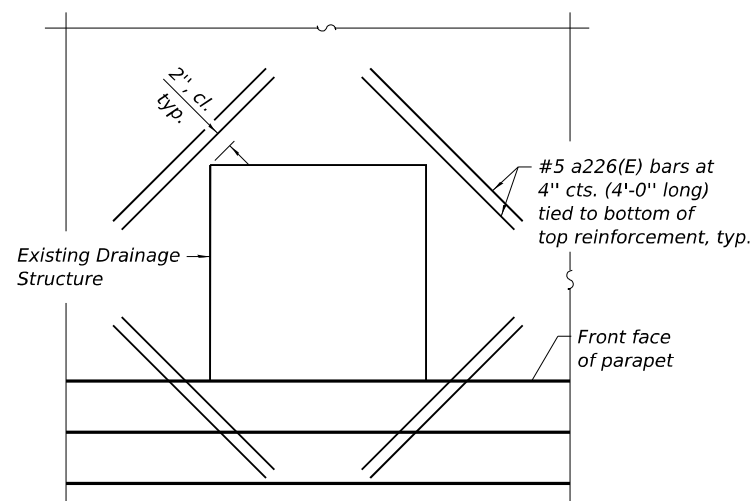
SECTION A-A



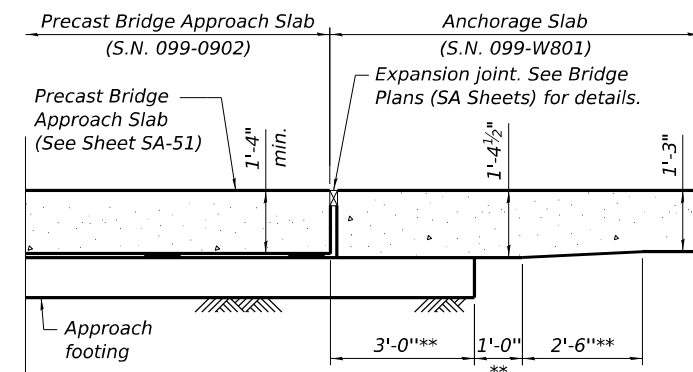
SECTION C-C
(Catch Basin not shown for clarity)



SECTION B-B



**ADDITIONAL REINFORCEMENT
AT DRAINAGE STRUCTURE PLAN**



**JOINT DETAIL AT APPROACH
SLAB AND ANCHORAGE SLAB**

Notes:

- For Reinforcement Bars, Epoxy Coated Bill of Material, see Sheet SE-08.
- #6 (E) 4'-0" long dowel bars shall be placed at mid-depth of anchorage slab at a maximum of 3'-0" plan spacing. If dowel bar aligns within 1'-6" of a pavement joint, the dowel bar shall be repositioned such that it is placed at a minimum of 1'-6" from either side of the pavement joint. Cost for dowel bars shall be included with Reinforcement Bars, Epoxy Coated.
- Cast frame into anchorage slab and form opening to structure.
- The Concrete Seal shall be installed according to Article 511 of the Standard Specifications. The cost of Concrete Seal shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

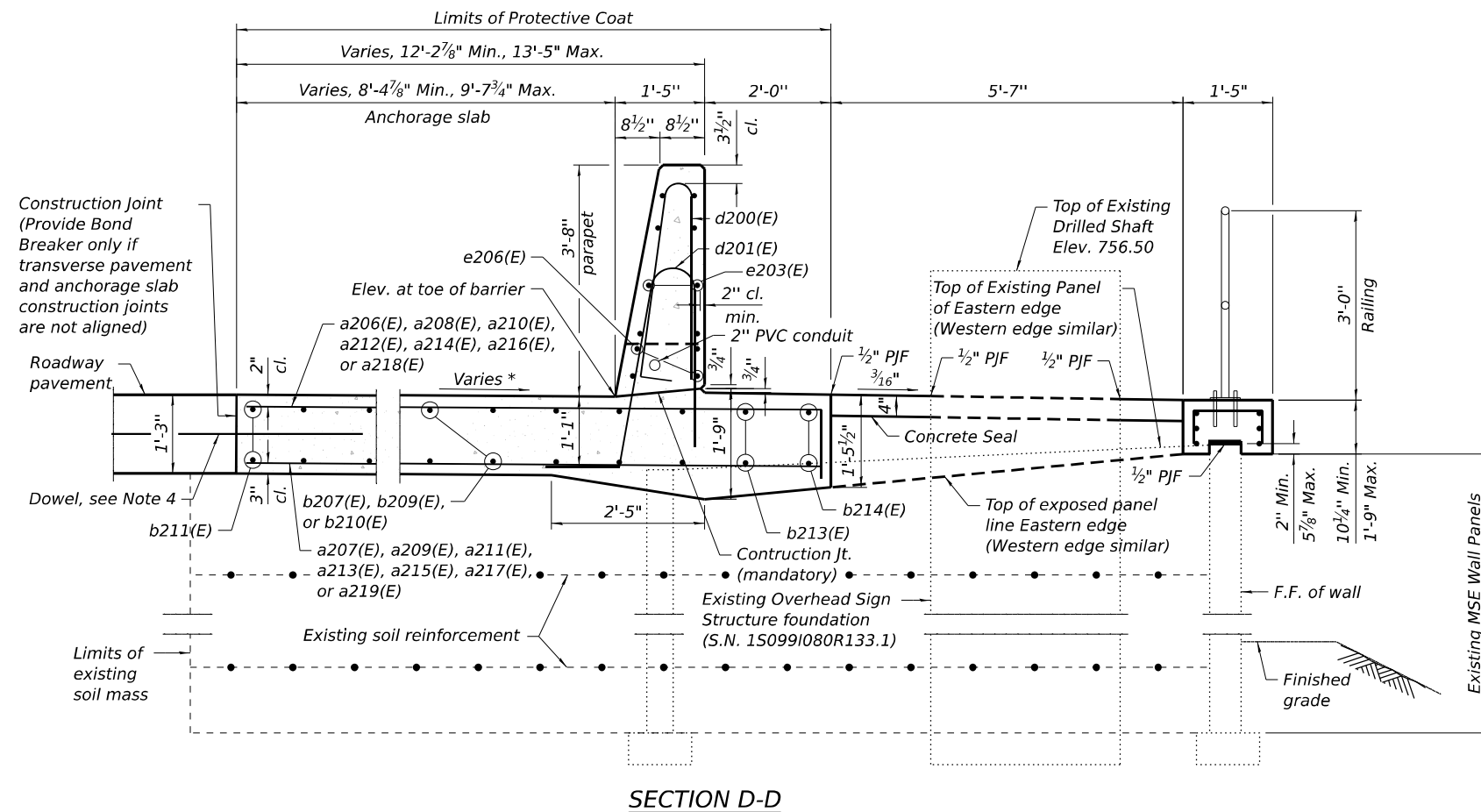
**WALL DETAILS 1
STRUCTURE NO. 099-W801 (EB)**

SHEET SE-06 OF SE-10 SHEETS

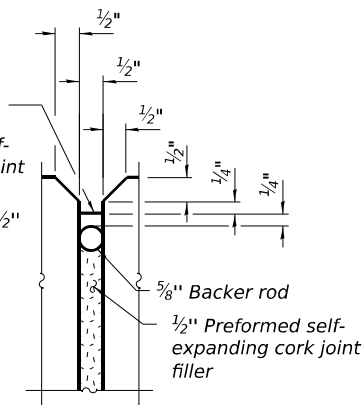
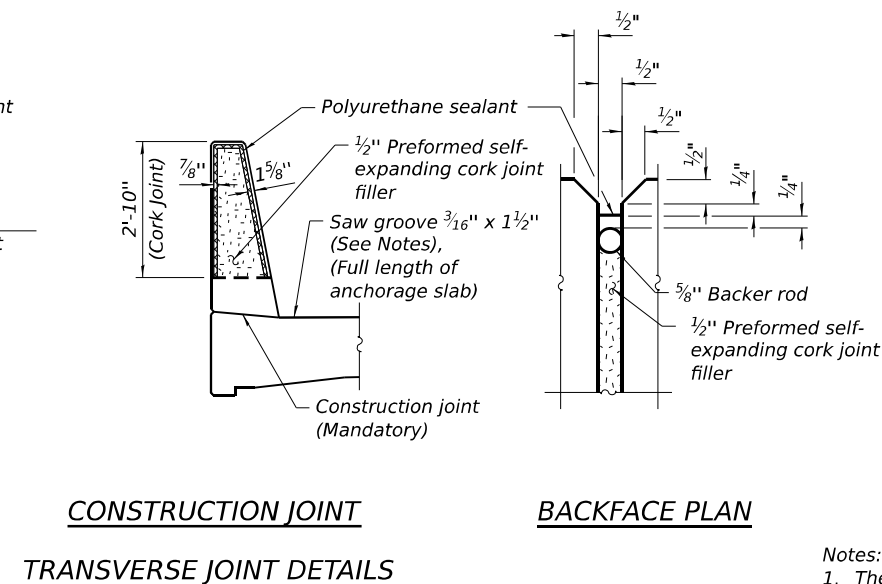
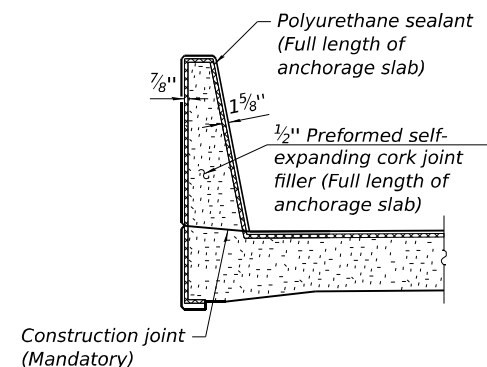
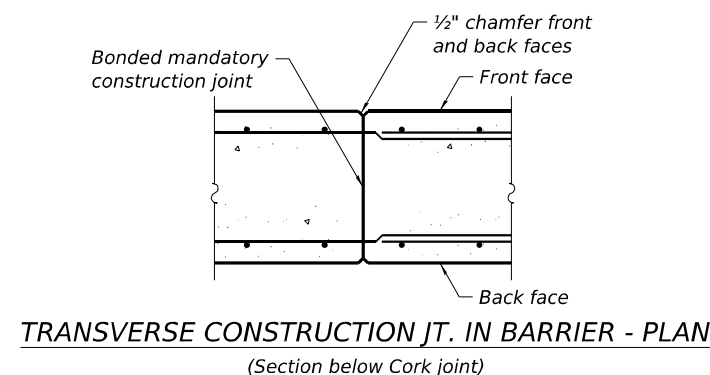
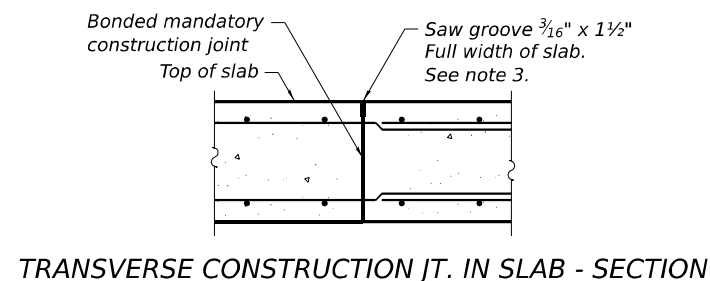
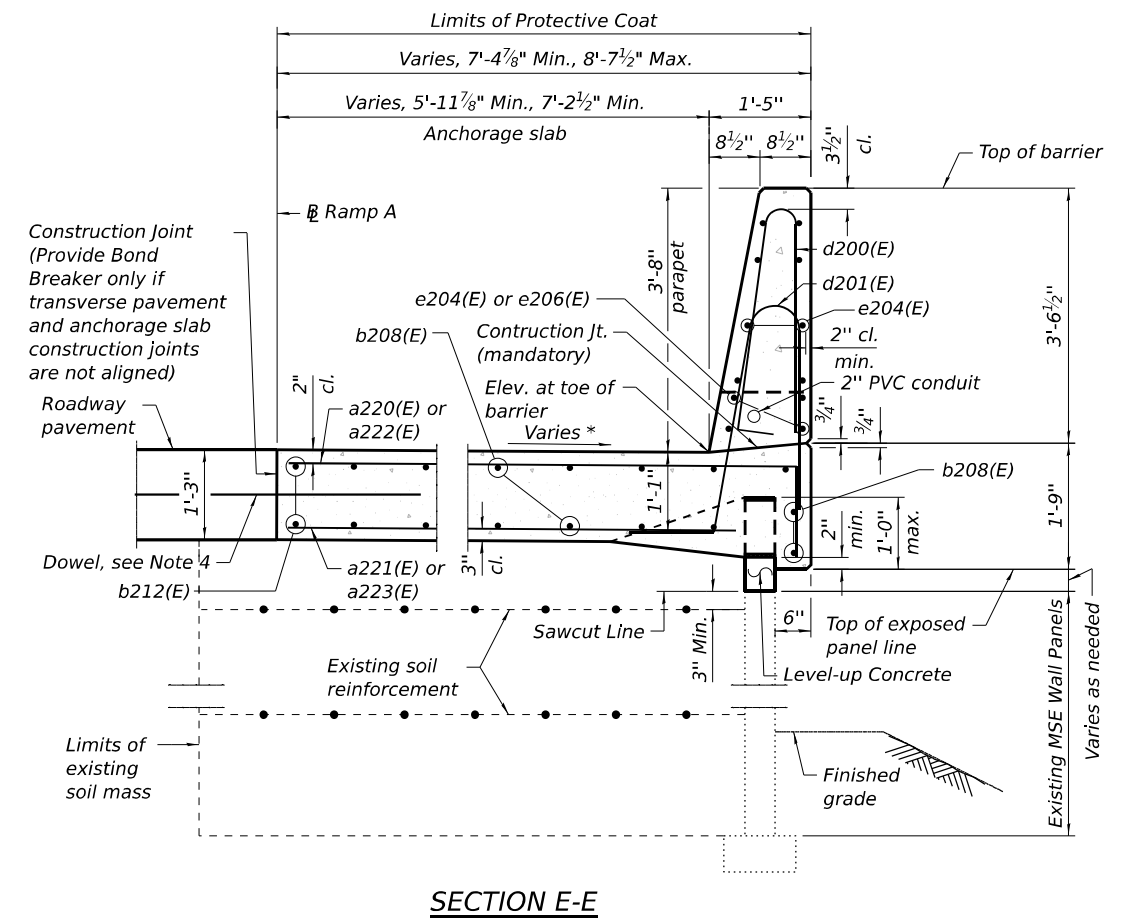
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	906
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

HNTB

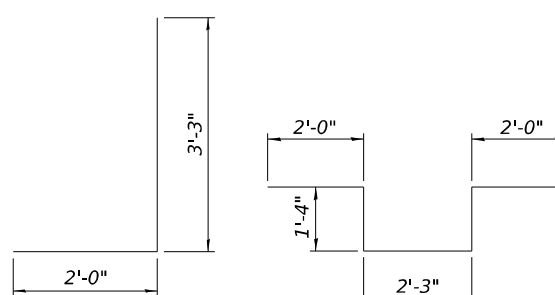
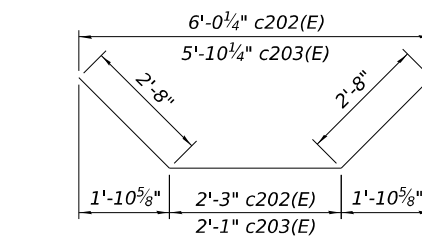
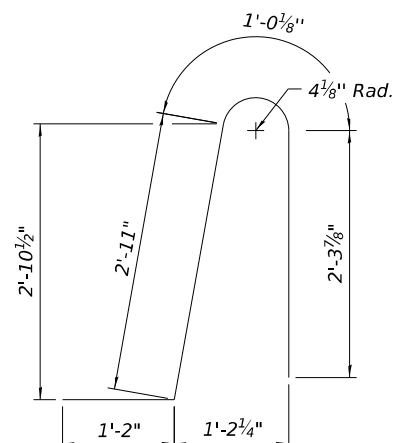
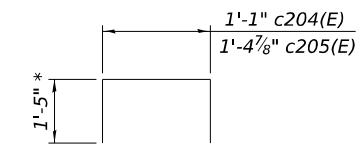
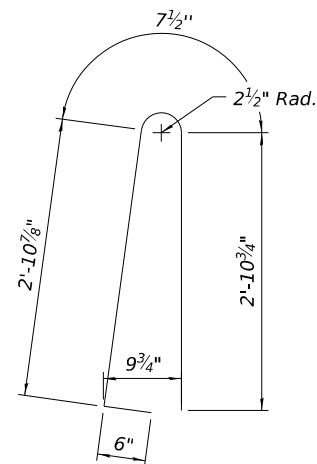
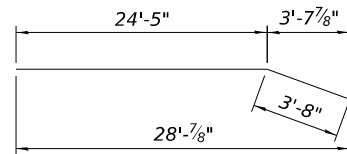
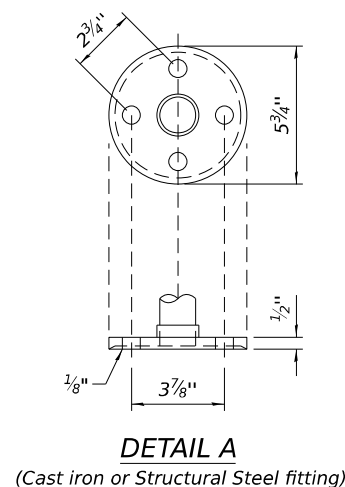
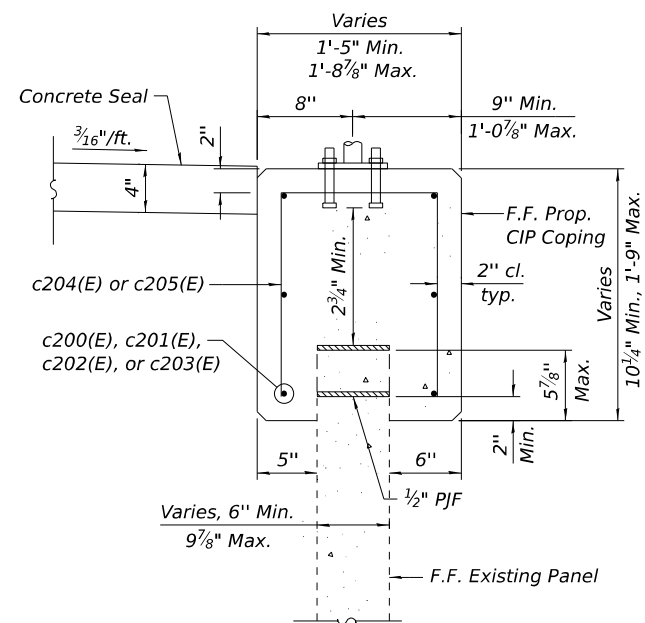
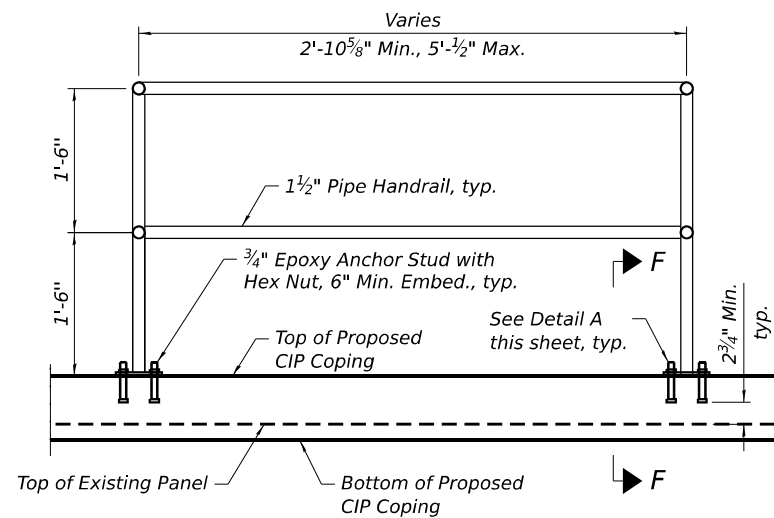
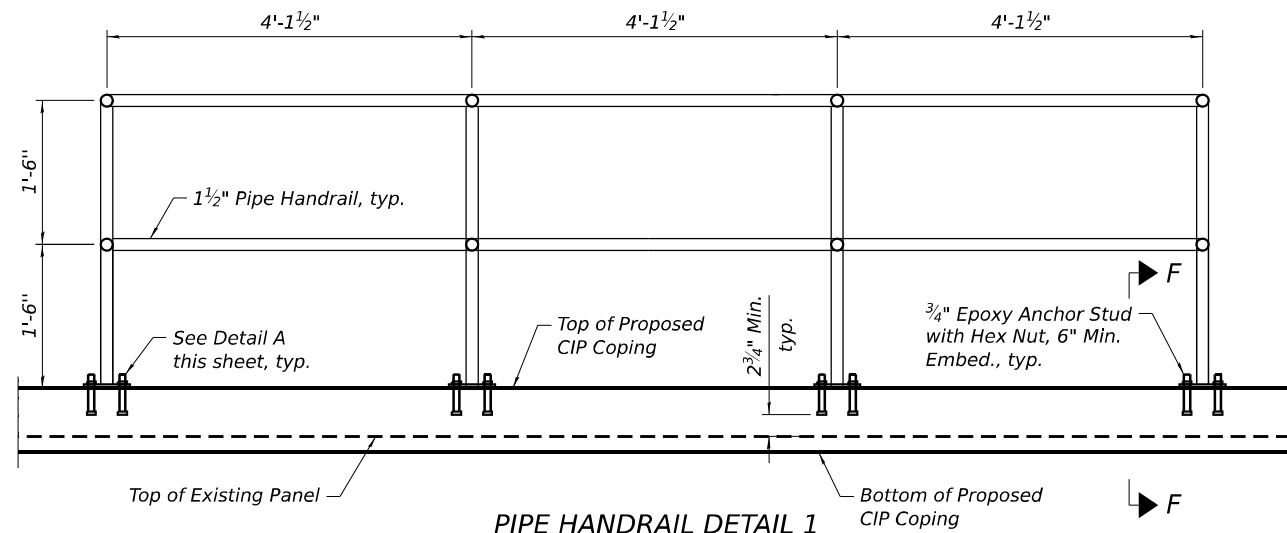
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PLOT DATE	=	CHECKED -	MVV	REVISED -	



* See Sheet SE-02 for Shoulder Transitions



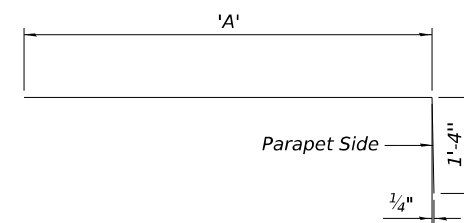
- Notes:
1. The Polyurethane Sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.
 2. Cost of expansion joints shall be included with Concrete Superstructure. Joint for 44" barrier shown. Joint at 72" barrier is similar.
 3. The saw groove shall use a hot poured joint sealer per Article 1050.02 of the Standard Specifications.
 4. #6 (E) 4'-0" long dowel bars shall be placed at mid-depth of anchorage slab at a maximum of 3'-0" plan spacing. If dowel bar aligns within 1'-6" of a pavement joint, the dowel bar shall be repositioned such that it is placed at a minimum of 1'-6" from either side of the pavement joint. Cost for dowel bars shall be included with Reinforcement Bars, Epoxy Coated.
 5. The Concrete Seal shall be installed according to Article 511 of the Standard Specifications. The cost of Concrete Seal shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.



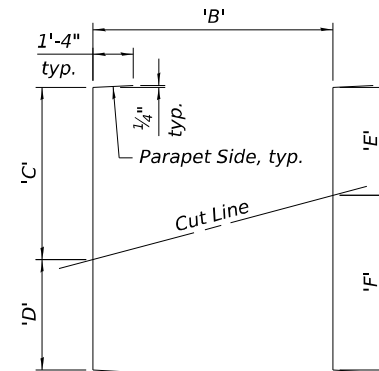
Pipe Handrail General Notes:

1. Article 509.04 of the Standard Specifications shall apply.
2. Connection of railing to posts shall be made by continuous welding or with using standard pipe fitting.
3. The pipe handrail shall be galvanized by the hot dip process.

<i>Bar</i>	'A'
<i>a200(E)</i>	13'-1"
<i>a206(E)</i>	10'-9"
<i>a208(E)</i>	11'-7"
<i>a210(E)</i>	12'-2"
<i>a214(E)</i>	11'-1"
<i>a216(E)</i>	10'-5"
<i>a218(E)</i>	9'-7"
<i>a224(E)</i>	7'-1"

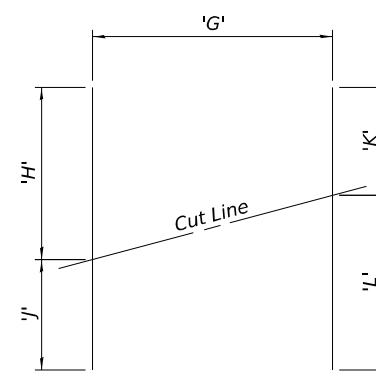


BAR BENDING DIAGRAM



FIELD CUTTING DIAGRAM

'B'	'C'	'D'	'E'	'F'
17-#5 a202(E)	13'-1"	11'-10"	12'-5"	12'-6"
17-#5 a204(E)	11'-10"	10'-9"	11'-3"	11'-4"
17-#5 a220(E)	9'-6"	8'-3"	8'-10"	8'-11"
17-#5 a222(E)	8'-3"	7'-1"	7'-8"	7'-8"



FIELD CUTTING DIAGRAM

'G'	'H'	'J'	'K'	'L'
17-#5 a203(E)	12'-1"	10'-10"	11'-5"	11'-6"
17-#5 a205(E)	10'-10"	9'-9"	10'-3"	10'-4"
15-#5 a212(E)	13'-11"	12'-11"	13'-5"	13'-5"
15-#5 a213(E)	11'-2"	10'-2"	10'-8"	10'-8"
17-#5 a221(E)	8'-6"	7'-3"	7'-10"	7'-11"
17-#5 a223(E)	7'-3"	6'-1"	6'-8"	6'-8"

WALL 1				
BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a200(E)	70	#5	14'-5"	
a201(E)	70	#5	12'-1"	
a202(E)	17	#5	27'-7"	
a203(E)	17	#5	22'-11"	
a204(E)	17	#5	25'-3"	
a205(E)	17	#5	20'-7"	
a206(E)	1	#5	12'-1"	
a207(E)	1	#5	9'-8"	
a208(E)	1	#5	12'-11"	
a209(E)	1	#5	9'-8"	
a210(E)	1	#5	13'-6"	
a211(E)	1	#5	10'-4"	
a212(E)	15	#5	26'-10"	
a213(E)	15	#5	21'-4"	
a214(E)	1	#5	12'-5"	
a215(E)	1	#5	9'-2"	
a216(E)	1	#5	11'-9"	
a217(E)	1	#5	8'-6"	
a218(E)	1	#5	10'-11"	
a219(E)	1	#5	8'-6"	
a220(E)	17	#5	20'-5"	
a221(E)	17	#5	15'-9"	
a222(E)	17	#5	18'-0"	
a223(E)	17	#5	13'-4"	
a224(E)	135	#5	8'-5"	
a225(E)	135	#5	6'-1"	
a226(E)	8	#5	4'-0"	
b200(E)	84	#5	28'-1"	
b201(E)	28	#5	21'-9"	
b202(E)	2	#5	16'-9"	
b203(E)	2	#5	20'-1"	
b204(E)	2	#5	28'-1"	
b205(E)	2	#5	25'-7"	
b206(E)	2	#5	21'-9"	
b207(E)	38	#5	26'-6"	
b208(E)	20	#5	22'-1"	
b209(E)	2	#5	22'-8"	
b210(E)	2	#5	13'-5"	
b211(E)	4	#5	26'-5"	
b212(E)	2	#5	22'-9"	
b213(E)	2	#5	21'-1"	
b214(E)	2	#5	19'-1"	
b215(E)	32	#5	33'-6"	
b216(E)	16	#5	29'-8"	
c200(E)	12	#4	5'-0"	
c201(E)	6	#4	15'-3"	
c202(E)	6	#4	7'-7"	
c203(E)	6	#4	7'-5"	
c204(E)	24	#4	3'-11"	
c205(E)	4	#4	4'-3"	
d200(E)	377	#5	7'-0"	
d201(E)	377	#5	7'-5"	
d202(E)	3	#6	5'-3"	
d203(E)	6	#6	8'-11"	
e200(E)	8	#4	21'-2"	
e201(E)	8	#4	24'-3"	
e202(E)	20	#4	21'-9"	
e203(E)	8	#4	22'-8"	
e204(E)	20	#4	22'-1"	
e205(E)	12	#4	27'-3"	
e206(E)	8	#4	25'-8"	

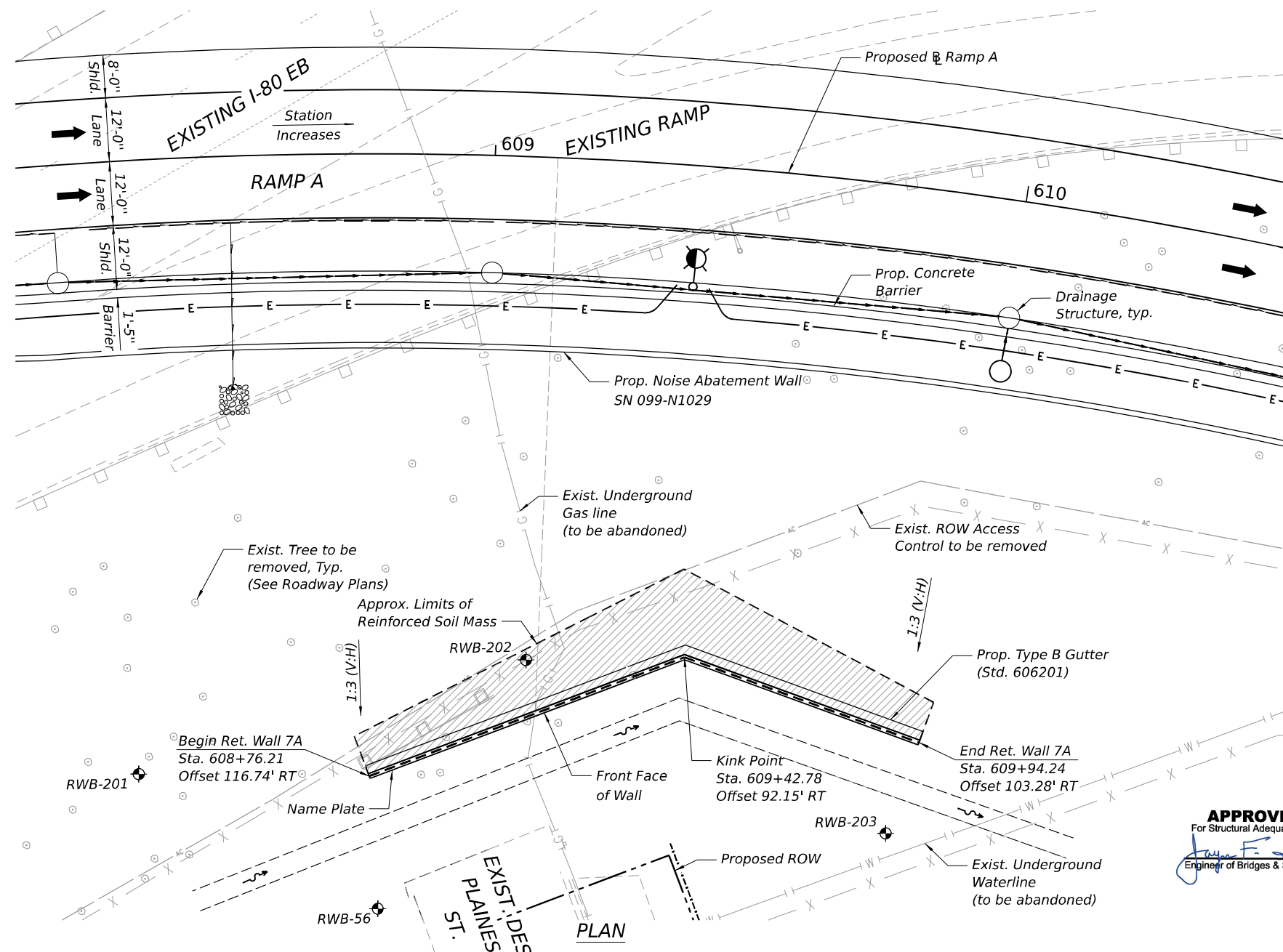
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

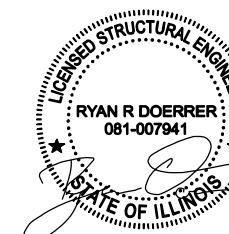
Notes:
1. For location of soil boring, see Sheet SE-01.

**** See note 3**



	<i>Exist. Underground Gasline</i>
	<i>Exist. Underground Waterline</i>
	<i>Exist. ROW Access Control</i>
	<i>Exist. ROW</i>
	<i>Prop. ROW</i>
	<i>Prop. Underground Electric</i>
	<i>Prop. Storm Sewer</i>
	<i>Prop. Pipe Underdrain</i>
<i>F.F.</i>	<i>Front Face</i>
<i>B.F.</i>	<i>Back Face</i>
	<i>Proposed Ditch</i>
	<i>Approx. Limits of Reinforced Soil Mass</i>
	<i>Existing Tree</i>

1. Stations and offsets are measured from the B of Ramp A to the front face of precast panels.
2. For General Notes, Index of Sheets, Profile Grade Line, Curve Data and Total Bill of Material, see Sheet SF-02.
3. For Table 1 - Wall Elevations 7A, Typical Section thru Wall, see Sheet SF-03.

 $f_y = 60,000 \text{ psi (Reinforcement)}$ 2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

Date: 10-31-2025
Expires: 11-30-2026

STRUCTURE NO. 099-W126



USER NAME	= jsandova	DESIGNED	= JSS	REVISED	=
		CHECKED	= RRD	REVISED	=
PLOT SCALE	= 0:0.1667' = 1" / in.	DRAWN	= TCK	REVISED	=
PLOT DATE	= 10/28/2025	CHECKED	= RRD	REVISED	=

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET SF-01 OF SF-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE NO
80	2017-057F	WILL	1342	91
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Cast-in-place concrete and reinforcement steel required for coping shall be included in the payment for Mechanical Stabilized Earth Retaining wall.
3. All Exposed concrete edges shall have a ¾" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below the finished ground level
4. Protective Coat shall be applied to the exposed faces of the cast-in-place coping.
5. The Contractor shall field verify locations of existing underground utilities prior to beginning work. Existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to the directions given on the Civil Plans. The Contractor shall take all necessary precautions to protect existing utilities to remain during all stages of construction. Any damage to the existing utilities to remain caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
6. Stations and offsets are measured along the baseline of the Chicago Street Ramp A to the front face of precast panels.
7. Porous Granular Embankment shall be placed and compacted to a minimum of 95% of the maximum dry density in accordance with IDOT standard construction requirements at locations where the proposed theoretical top of leveling pad is above the existing ground line.

INDEX OF SHEETS

SF-01	General Plan & Elevation
SF-02	General Data
SF-03	Typical Section
SF-04	Coping Plan and Elevation
SF-05	Chain Link Fence Attached to Structure
SF-06	Boring Logs 1 (1 of 2)
SF-07	Boring Logs 2 (2 of 2)

TOTAL BILL OF MATERIAL

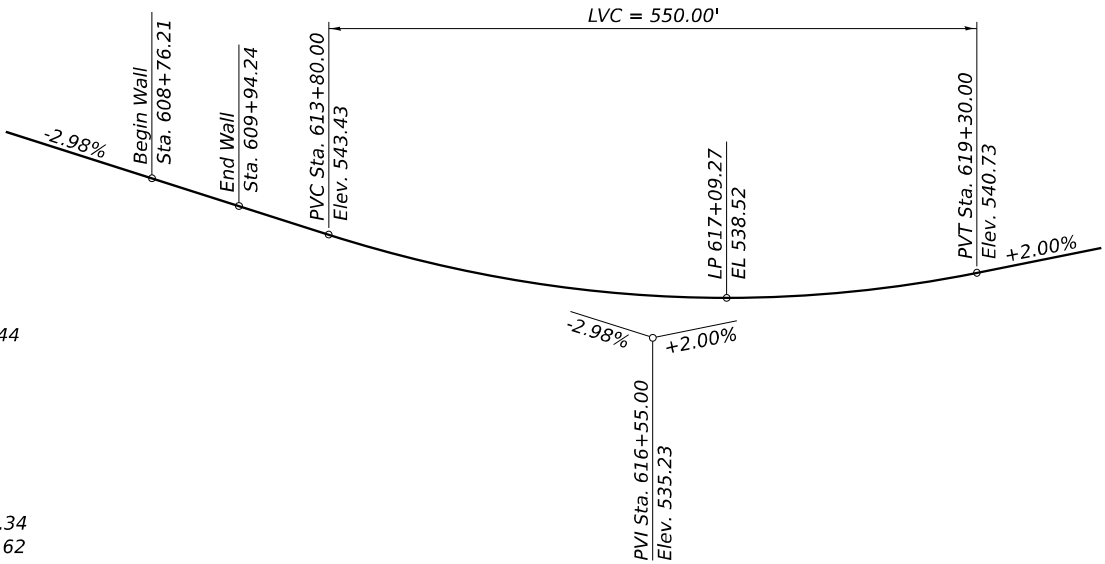
ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	9
Protective Coat	Sq Yd	46
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq Ft	913
Porous Granular Embankment	Cu Yd	175
Chain Link Fence, 4' Attached to Structure	Foot	110

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Place Porous Granular Embankment in areas where the bottom of the proposed leveling pad is at higher elevation than the existing ground.
2. Excavate existing ground where required and build MSE wall leveling pad.
3. Compact Porous Granular Embankment before placing MSE wall leveling pad.
4. Construct leveling pad and place MSE wall to the required elevation.
5. Construct cast in place concrete coping.
6. Grade remaining finish grade slope to meet proposed roadway.

PR RAMP A
CURVE 1

P.I. Sta. = 609+86.44
Δ = 23°33'18"
D = 06°51'42"
R = 835.00'
T = 174.10'
L = 343.28'
E = 17.96'
e = 6.0%
P.C. Sta. = 608+12.34
P.T. Sta. = 611+55.62



RAMP A PROFILE GRADE
(Along Prop. R Ramp A)

STA. 608+76.21 TO 609+94.24
BUILT 20-- BY
STATE OF ILLINOIS
F.A.I. Rt. 80 Sec. 2017-057F
LOADING HL-93
STR. NO. 099-W126

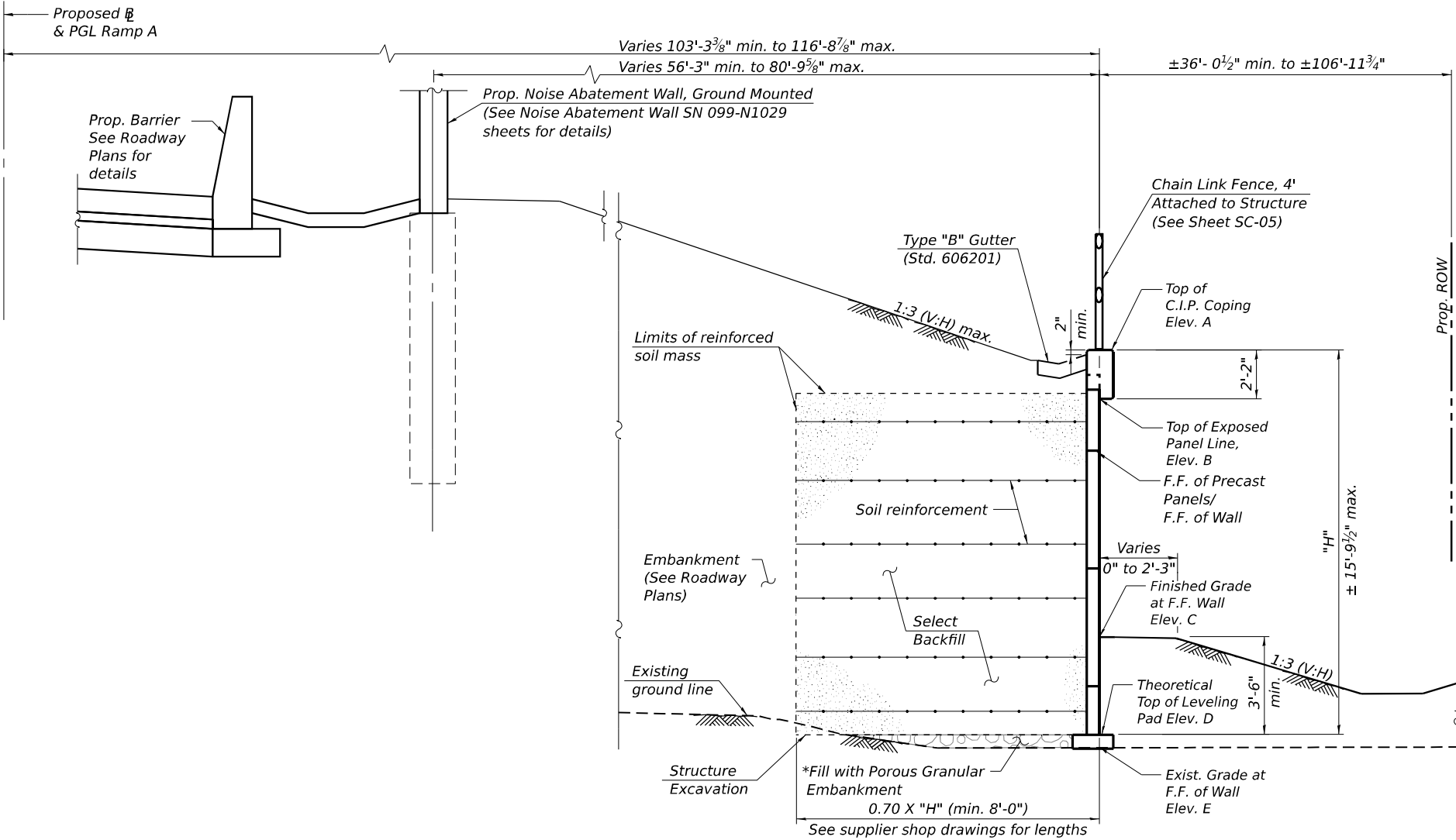
NAME PLATE
See Std. 515001

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	PLOT DATE = 10/28/2025		DRAWN - TCK	REVISED -								
			CHECKED - RRD	REVISED -								
SHEET SF-02 OF SF-07 SHEETS						ILLINOIS FED. AID PROJECT						

TABLE 1- WALL ELEVATIONS 7A

Station	Offset from Ramp A	A	B	C	D	E
		Top of C.I.P. Coping	Top of Exposed Panel Line	Finished Grade at F.F. of Wall	Theoretical Top of Leveling Pad	Exist. Grade at F.F. Wall
608+76.21	116.74' Rt.	532.71	530.54	532.71	529.21	522.54
608+80.00	115.50' Rt.	533.05	530.89	532.36	528.86	522.50
609+00.00	108.63' Rt.	534.88	532.71	530.50	527.00	522.42
609+20.00	101.28' Rt.	536.70	534.53	528.60	525.10	522.45
609+39.71	93.42' Rt.	538.49	536.32	526.66	523.16	522.55
609+40.00	93.30' Rt.	538.51	536.34	526.71	523.21	522.56
609+42.78	95.15' Rt.	538.70	536.53	526.41	522.91	522.64
609+60.00	96.23' Rt.	536.95	534.78	526.43	522.93	522.64
609+64.57	97.25' Rt.	536.48	534.31	526.41	522.91	522.58
609+80.00	100.51' Rt.	534.91	532.74	530.30	526.80	522.50
609+94.23	103.28' Rt.	533.46	531.29	533.46	529.96	522.63



TYPICAL WALL SECTION
(Looking East)

* Required at all locations where
top of leveling pad is above
the existing ground line

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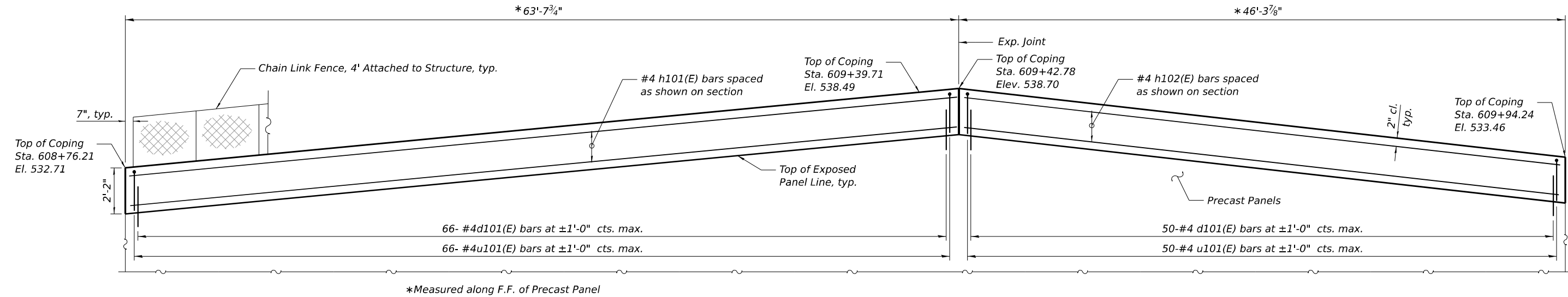
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

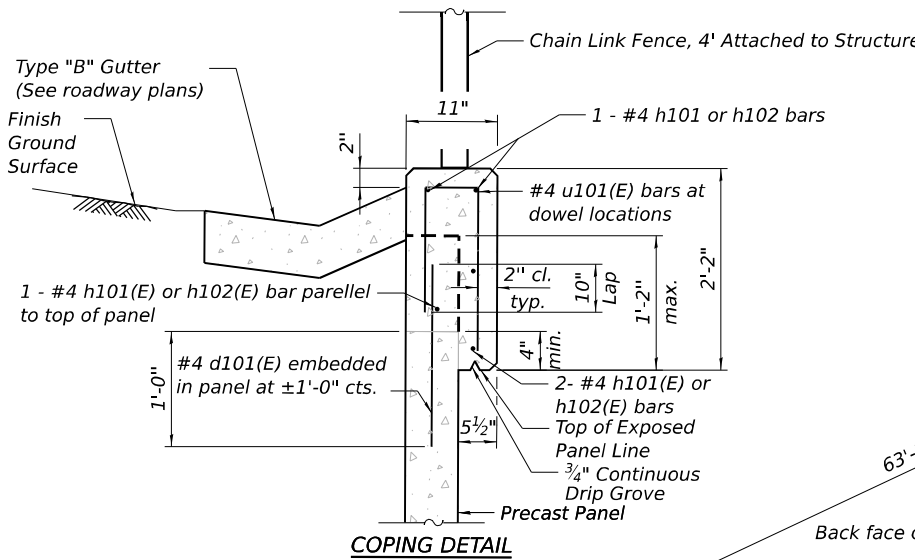
TYPICAL SECTION
STRUCTURE NO. 099-W126

SHEET SF-03 OF SF-07 SHEETS

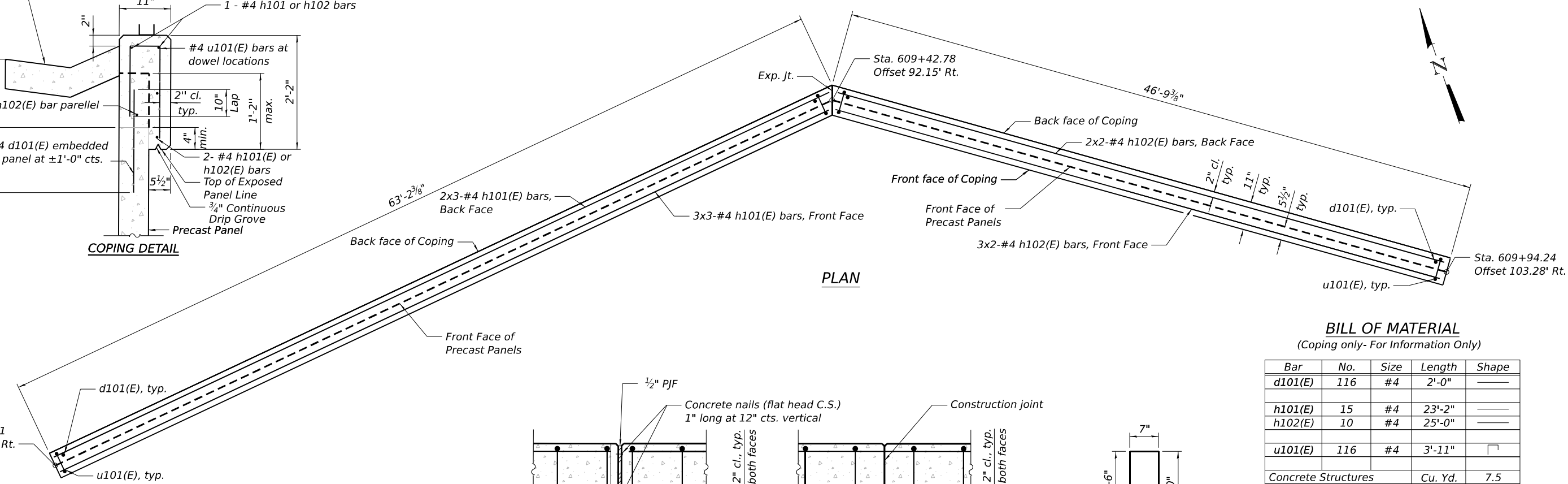
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	913
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



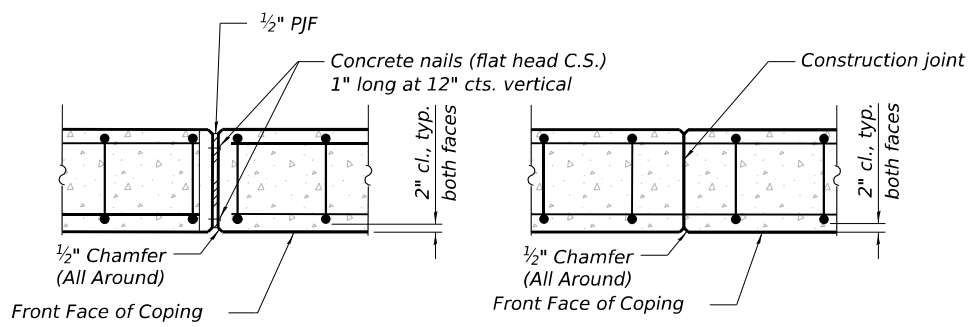
ELEVATION - UNFOLDED
(Looking North)



COPING DETAIL

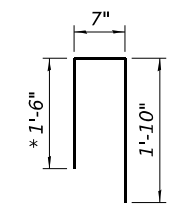


PLAN



Coping Expansion Joint - PLAN

Coping Construction Joint - PLAN
(Provide construction joints at 30'-0\"/>



BAR u101(E)
* cut bar to fit

BILL OF MATERIAL
(Coping only- For Information Only)

Bar	No.	Size	Length	Shape
d101(E)	116	#4	2'-0"	—
h101(E)	15	#4	23'-2"	—
h102(E)	10	#4	25'-0"	—
u101(E)	116	#4	3'-11"	U
Concrete Structures			Cu. Yd.	7.5
Reinforcement Bars, Epoxy Coated			Pound	860

MIN. LAP LENGTH
#4 Bar = 2'-11"

- Notes:
1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
 2. For control point station, offset, and elevations, see Sheet SF-03.
 3. For Typical Section, see Sheet SF-03.
 4. The cost of the concrete and the reinforcement steel required for the coping shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.
 5. For coping construction joint spacing requirements see Coping Construction Joint - Plan Detail.

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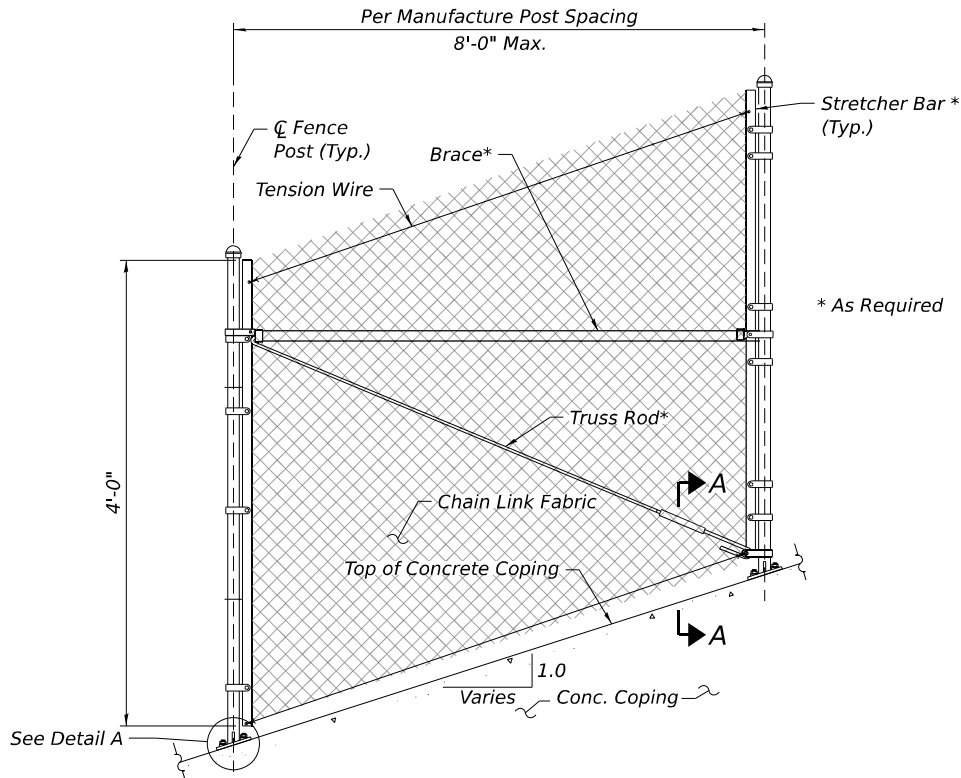
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PLOT DATE	= 10/28/2025	CHECKED	- RRD	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COPING PLAN AND ELEVATION
STRUCTURE NO. 099-W126

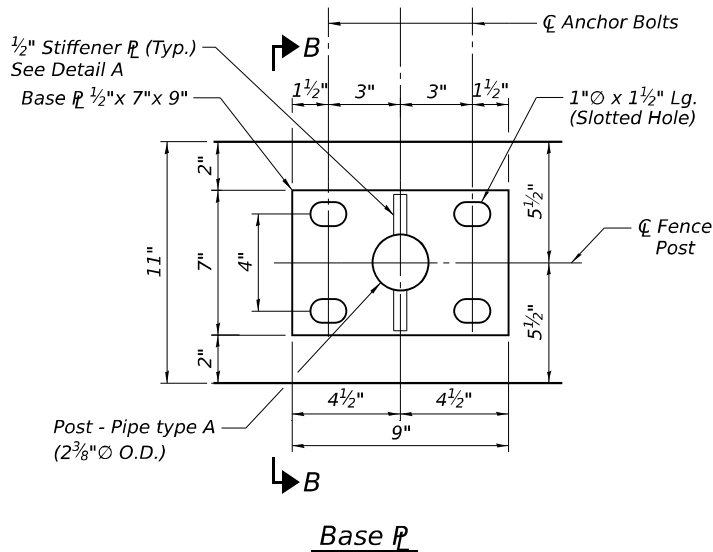
SHEET SF-04 OF SF-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	914
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



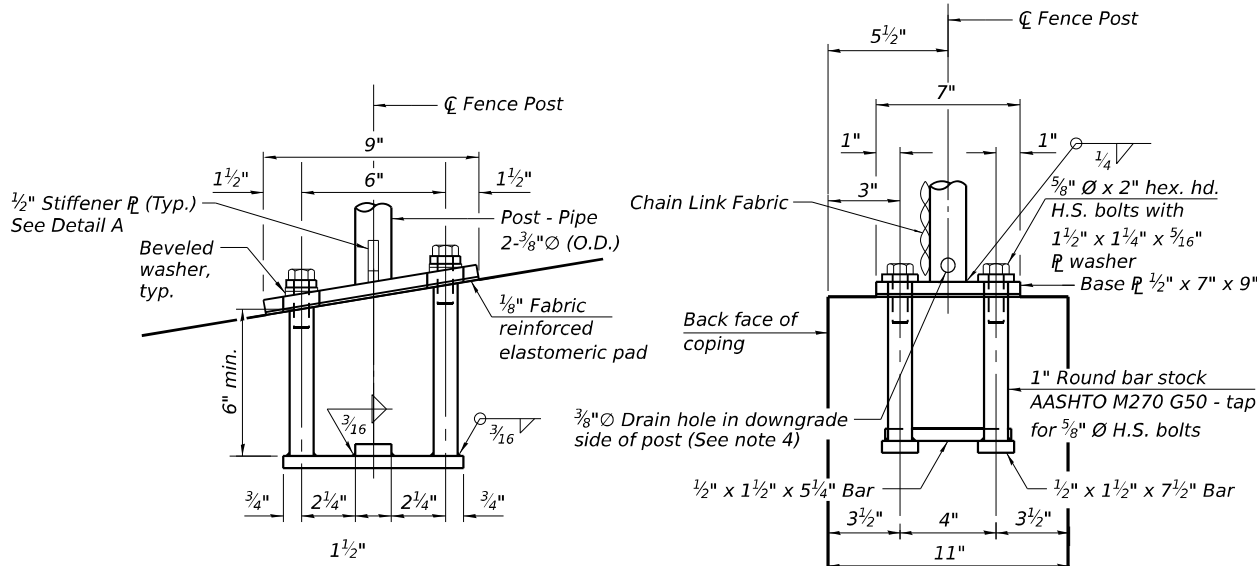
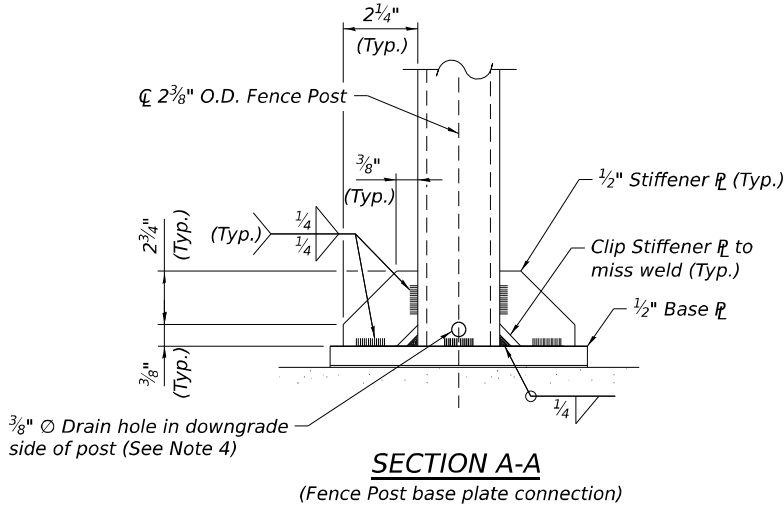
CHAIN LINK FENCE ELEVATION

(Along top of Concrete Coping)



BASE PLATE NOTES:

- Base Plates shall be fabricated from material meeting the requirements of AASHTO M270 Grade 50.
- Base Plates and Posts shall be Hot Dipped Galvanized after fabrication in accordance with AASHTO M111.
- All fabrication shall be per Article 505.04 of the Standard Specifications.
- All bolts, nuts, washers and anchors shall be galvanized according to AASHTO M 232.



Detail A

SECTION B-B

(Stiffener not shown for clarity)

ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 3/8" O fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

- See IDOT Highway Standard Drawing 664001-02 for additional fence details.
- Fence shall be continuous over concrete coping expansion joints.
- At all fence locations, the end posts shall be 7" from the the coping expansion joint and ends.
- Drill Drain hole to miss fillet weld and prior to galvanizing. Hole shall be drilled as close to the weld as possible.
- Edge distance from a construction or expansion joint in the proposed copings to an expansion anchor shall be per manufacturer's specifications.
- For CIP Concrete coping details see sheet SF-04.
- Place reinforcement bars to miss anchor rod locations.
- All heavy hex nuts shall be according to ASTM A 563 grade DH.
- All fully threaded anchor rods shall be ASTM F1554 grade 105.
- The post base plate shall be fastened to the top of the cast in place coping snug tight and given an additional 1/8" turn.

BILL OF MATERIAL

Item	Unit	Quantity
Chain Link Fence, 4' Attached to Structure	Foot	110

MODEL: Default
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PLOT DATE	= 10/28/2025

DESIGNED	- JSS
CHECKED	- RRD
DRAWN	- TCK
CHECKED	- RRD

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE ATTACHED TO STRUCTURE
STRUCTURE NO. 099-W126

SHEET SF-05 OF SF-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	915
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

Page 1 of 1

Date 10/28/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 7 - Ramp A LOGGED BY AA

SECTION C-91-109-22 LOCATION , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG	Latitude B-57	HAMMER TYPE	Auto
		DRILLING METHOD	HSA	HAMMER EFF (%)	89

STRUCT. NO. _____ Station _____	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. _____ N/A ft
					Stream Bed Elev. _____ N/A ft
BORING NO. _____ RWB-56 Station _____ 608+94.47 Offset _____ 148.70ft RT					Groundwater Elev.: _____
Ground Surface Elev. _____ 522.58 ft					First Encounter _____ Dry ft Upon Completion _____ N/A ft After _____ Hrs. _____ N/A ft
	(ft)	(/6")	(tsf)	(%)	

inches of Asphalt	522.25			
8 inches of Aggregate Subbase	521.58			
Medium Dense		5		
Dark Brown and Gray, Moist		15		12
GRAVEL, with sand, trace clay		8		
seams (GPS)				
	519.08			
Stiff		2		
Dark Brown, Moist		2	1.0	20
SILTY CLAY, with gravel (CL/ML)		2	P	
	-5			
	516.58			
Medium Dense to Very Dense		2		
Brown, Dry to Moist		6		15
GRAVEL, trace sand and clay		6		
seams (GP)				
		16		
	513.08	50/4"		3
WEATHERED LIMESTONE	512.58	-10		
Gray				
LIMESTONE, slightly weathered,				
moderately fractured				
Run 1: 10' - 15'				
Recovery: 92%				
RQD: 52% (Fair)				
	507.58	-15		
Run 2: 15' - 20'				
Recovery: 100%				
RQD: 75% (Good)				
	502.58	-20		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 1 of 1

Date 3/19/25

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 7 - Ramp A	LOGGED BY	SB
-------	------	-------------	-------------------------------	-----------	----

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG	Latitude 41.5108154, Longitude -88.0855262	
		DRILLING METHOD	Mobile B-57	HAMMER TYPE Auto
			HSA	HAMMER EFF (%) 92.1

STRUCT. NO. _____ Station _____	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ N/A ft Stream Bed Elev. _____ N/A ft
BORING NO. _____ RWB-201 Station _____ 608+39.28 Offset _____ 142.44ft RT Ground Surface Elev. _____ 524.49 ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: First Encounter _____ Dry ft Upon Completion _____ N/A ft After _____ Hrs. _____ N/A ft

[illegible]

The Unconfined Compressive Strength (UCS) Failure Mode Is Indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
GSG Consultants

SOIL BORING LOG

Page 1 of 1

Date 3/20/25

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 7 - Ramp A	LOGGED BY	AGK
SECTION	C-91-109-22	LOCATION	SEC. 16, TWP. 35 N, RNG. 10 E		
COUNTY	Will	DRILLING RIG	Diedrich D-50 ATV	HAMMER TYPE	Auto
		DRILLING METHOD	HSA	HAMMER EFF (%)	94.6
STRUCT. NO.		D	B	U	M
Station		E	L	C	O
		P	O	S	I
		T	W	S	S
		H	S	Qu	T
BORING NO.	RWB-202				
Station	609+41.29				
Offset	116.17ft RT				
Ground Surface Elev.	524.04	ft	(ft)	(/6")	(tsf) (%)
3 inches of Topsoil 523.79					
Dark Brown, Moist					
FILL: SILTY CLAY, some debris, trace gravel					
5					
7					
9					
7					
6					
-5 6					
518.04					
WEATHERED LIMESTONE					
16					
17					
18					
515.54					
Auger refusal at 8.5 feet					
Light Gray					
LIMESTONE, slightly weathered, moderately fractured					
50/1"					
-10					
Run 1: 8.5' - 18.5'					
Recovery: 100%					
RQD: 92.5% (Excellent)					
-15					
505.54					
End of Boring					
-20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
GSG Consultants

SOIL BORING LOG

Page 1 of 1

Date 3/19/25

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 7 - Ramp A	LOGGED BY	SB
SECTION	C-91-109-22	LOCATION	SEC. 16, TWP. 35 N, RNG. 10 E		
COUNTY	Will	DRILLING RIG	Mobile B-57	HAMMER TYPE	Auto
		DRILLING METHOD	HSA	HAMMER EFF (%)	92.1
STRUCT. NO.		D	B	U	M
Station		E	L	C	O
		P	O	S	I
		T	W	S	S
		H	S	Qu	T
BORING NO.	RWB-203				
Station	609+83.82				
Offset	125.44ft RT				
Ground Surface Elev.	524.42	ft	(ft)	(/6")	(tsf) (%)
4 inches of Topsoil 524.09					
Loose to Medium Dense					
Brown, Moist					
GRAVEL, little clay, trace roots (GP)					
6					
6					
7					
7					
2					
-5 2					
518.42					
Medium Dense					
Brown, Moist					
SILTY LOAM, little clay, trace sand, trace gravel (ML)					
2					
4					
10					
515.92					
Very Dense					
Light Gray, Moist					
WEATHERED LIMESTONE					
50/2"					
514.92					
Auger refusal at 9.5 feet					
End of Boring					
-10					
-15					
-20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2 (2 OF 2)
STRUCTURE NO. 099-W126

SHEET SF-07 OF SF-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	917
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



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DRAWN - TCK
PLOT DATE = 10/28/2025
CHECKED - RRD
REVISED -

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10/28/2025 9:50:55 AM

Salvage: None.

2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

PRECAST UNITS

$$f_c = 4,500 \text{ psi}$$

FIELD UNITS

$f_c = 3,500 \text{ psi (Coping)}$

$f'_c = 4,000 \text{ psi}$ (Anchorage Slab and Barrier)

 $f_y = 60,000 \text{ psi (Reinforcement)}$

1. Stations and offsets are measured from the B of Ramp A to the front face of precast panels.
2. For General Notes, Index of Sheets, Profile Grade, Curve Data and Total Bill of Material, see Sheet SG-02.
3. For Table 1 - Wall Elevations 7B, Typical Sections thru Wall, see Sheet SG-03.

 Soil Boring

— E — *Exist. Underground Electric*

— E — *Prop. Underground Electric*

—| G |— *Exist. Underground Gasline*

—| W |— *Exist. Underground Waterline*

— — — — — *Exist. Underground Sanitary Sewer*

———— AC ———— *Exist. ROW Access Control
(To be removed)*

— — — *Exist. ROW*

Prop. Storm Sewer

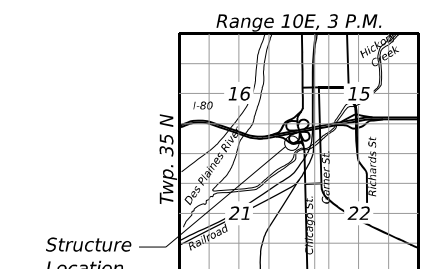
— — — — — Prop. Pipe Underdrain

 Existing Tree

 Prop. Lighting

F.F. Front Face

B.F. *Back Face*

 Proposed Ditch *Approx. Limits of Reinforced Soil Mass*

LOCATION SKETCH



Date: 10-31-2025

Expires: 11-30-2026

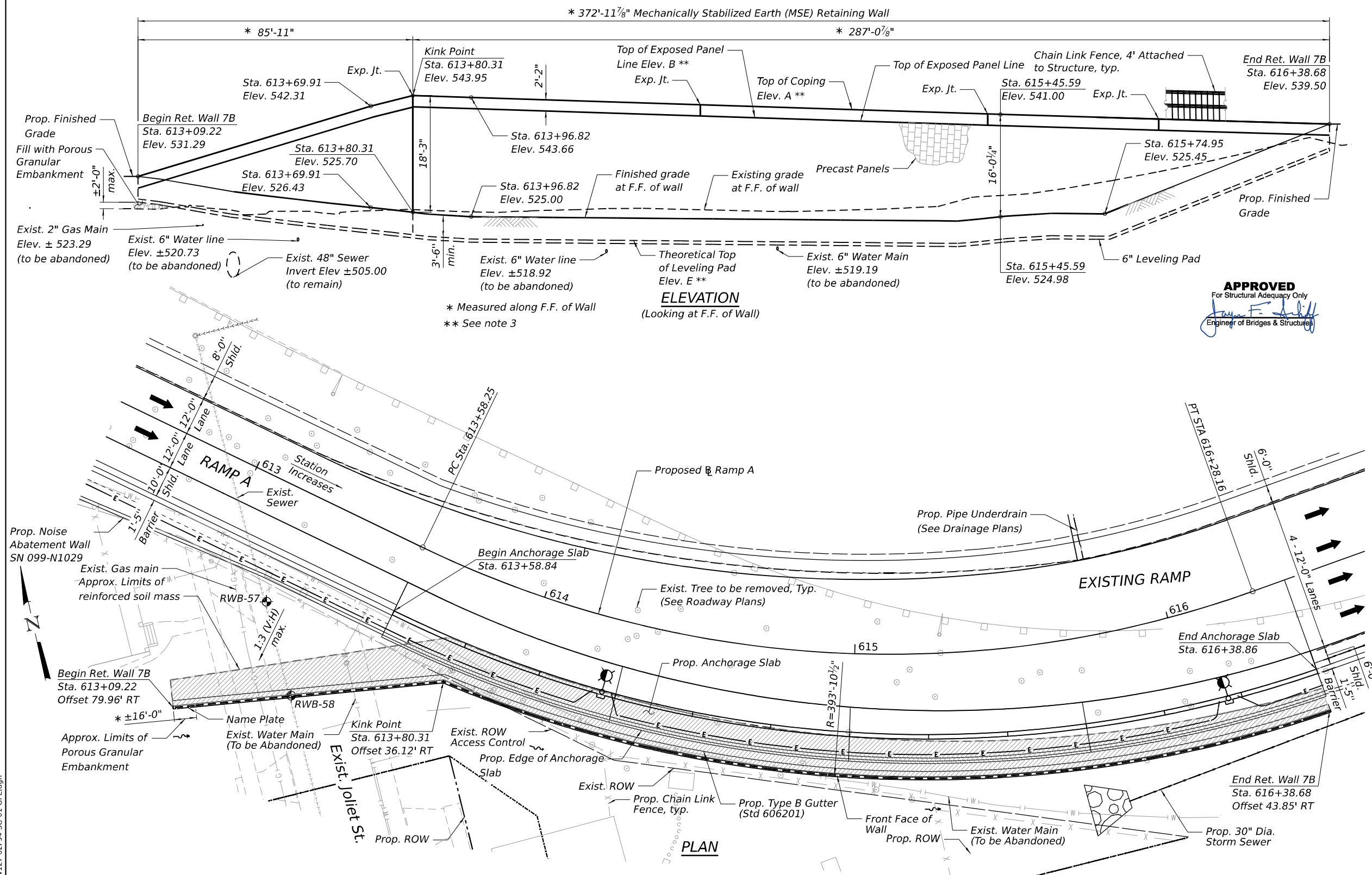
GENERAL PLAN AND ELEVATION
RETAINING WALL 7B ALONG RAMP A

F.A.I. RTE. 80 - SEC. 2017-057F

WILL COUNTY

STA. 613+09.22 TO STA. 616+38.68

STRUCTURE NO. 099-W127



PLAN

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET SG-01 OF SG-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	918
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		

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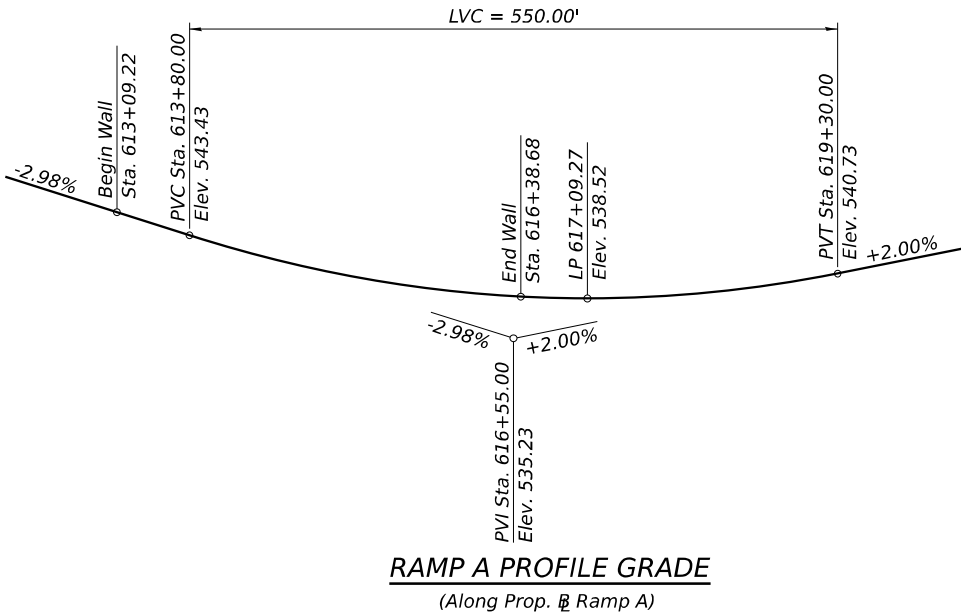
10/28/2025 9:51:25 AM

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Cast-in-place concrete and reinforcement steel required for coping shall be included in the payment for Mechanical Stabilized Earth Retaining wall.
3. 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 the finished ground level.
4. Protective Coat shall be applied to the exposed areas of the anchorage slabs, parapets and to the exposed faces of the cast-in-place coping.
5. The Contractor shall field verify locations of existing underground utilities prior to beginning work. Existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to the directions given on the Civil Plans. The Contractor shall take all necessary precautions to protect existing utilities to remain during all stages of construction. Any damage to the existing utilities to remain caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
6. Stations and offsets are measured along the baseline of the Chicago Street Ramp A to the front face of precast panels.
7. Porous Granular Embankment shall be placed and compacted to a minimum of 95% of the maximum dry density in accordance with IDOT standard construction requirements.
8. The M.S.E. wall supplier's Internal stability design shall account for the Anchorage Slab bearing pressure surcharge of 1.0 KSF and a horizontal force of 0.5 kips/ft. of wall.
9. Slip Forming of the parapets is not allowed.
10. When the proposed theoretical top of leveling pad is above the existing ground line, compacted Porous Granular Embankment must be place prior to the construction of the proposed leveling pad.

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Place Porous Granular Embankment in areas where the bottom of the proposed leveling pad is at higher elevation than the the existing ground.
2. Excavate existing ground where required and build MSE wall leveling.
3. Compact Porous Granular Embankment before placing MSE wall leveling pad.
4. Construct leveling pad and place MSE wall to the required elevation.
5. Construct cast in place concrete coping.
6. Grade remaining finish grade slope to meet proposed roadway.
7. Construct Anchorage Slab.
8. Construct Noise Abatement Wall mounted to Anchorage Slab.

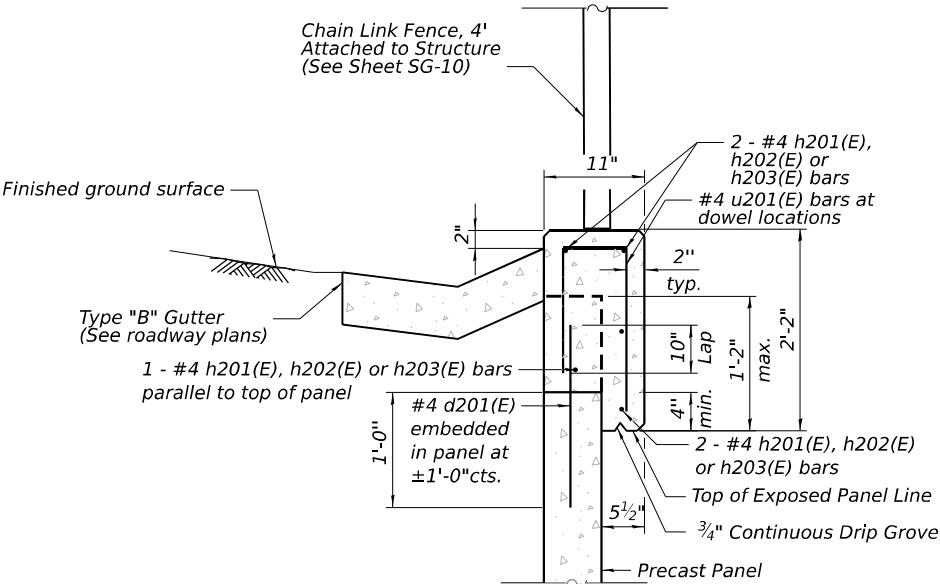


INDEX OF SHEETS

SG-01	General Plan and Elevation
SG-02	General Data
SG-03	Typical Sections
SG-04	Coping Plan and Elevation 1
SG-05	Coping Plan and Elevation 2
SG-06	Anchorage Slab Plan and Elevation 1
SG-07	Anchorage Slab Plan and Elevation 2
SG-08	Anchorage Slab Details and Typical Section
SG-09	Anchorage Slab Details
SG-10	Chain Link Fence Attached to Structure
SG-11	Boring Logs 1 (1 of 4)
SG-12	Boring Logs 2 (2 of 4)
SG-13	Boring Logs 3 (3 of 4)
SG-14	Boring Logs 4 (4 of 4)

TOTAL BILL OF MATERIAL

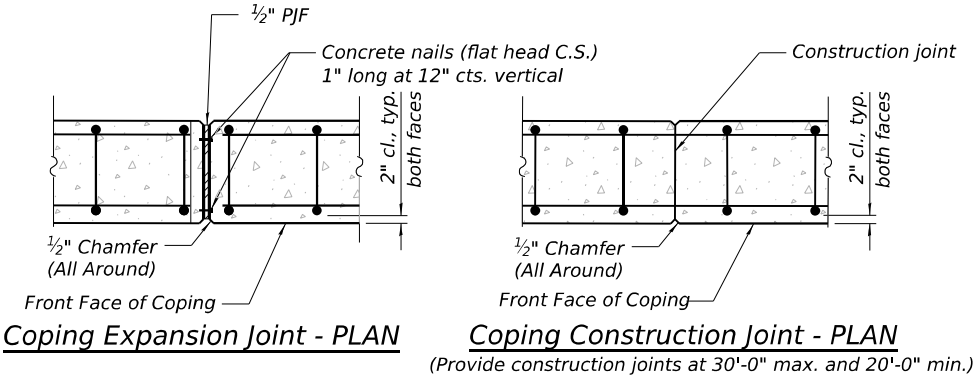
ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	977
Concrete Superstructure	Cu Yd	439.0
Protective Coat	Sq Yd	950
Reinforcement Bars, Epoxy Coated	Pound	45,700
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq Ft	5,593
Porous Granular Embankment	Cu Yd	11
Chain Link Fence, 4' Attached to Structure	Foot	373
Noise Abatement Wall Anchor Rod Assembly	Each	28



COPING DETAIL

PR RAMP A
CURVE 2

P.I. Sta. = 615+00.77
Δ = 45°29'03" (LT)
D = 16°51'06"
R = 340.00'
T = 142.42'
L = 269.91'
E = 28.66'
e = 6.0%
P.C. Sta. = 613+58.25
P.T. Sta. = 616+28.16



STA. 613+09.22 TO 616+38.68
BUILT 20-- BY
STATE OF ILLINOIS
F.A.I. Rt. 80 Sec. 2017-057F
LOADING HL-93
STR. NO. 099-W127

NAME PLATE
See Std. 515001

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REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 099-W127

SHEET SG-02 OF SG-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

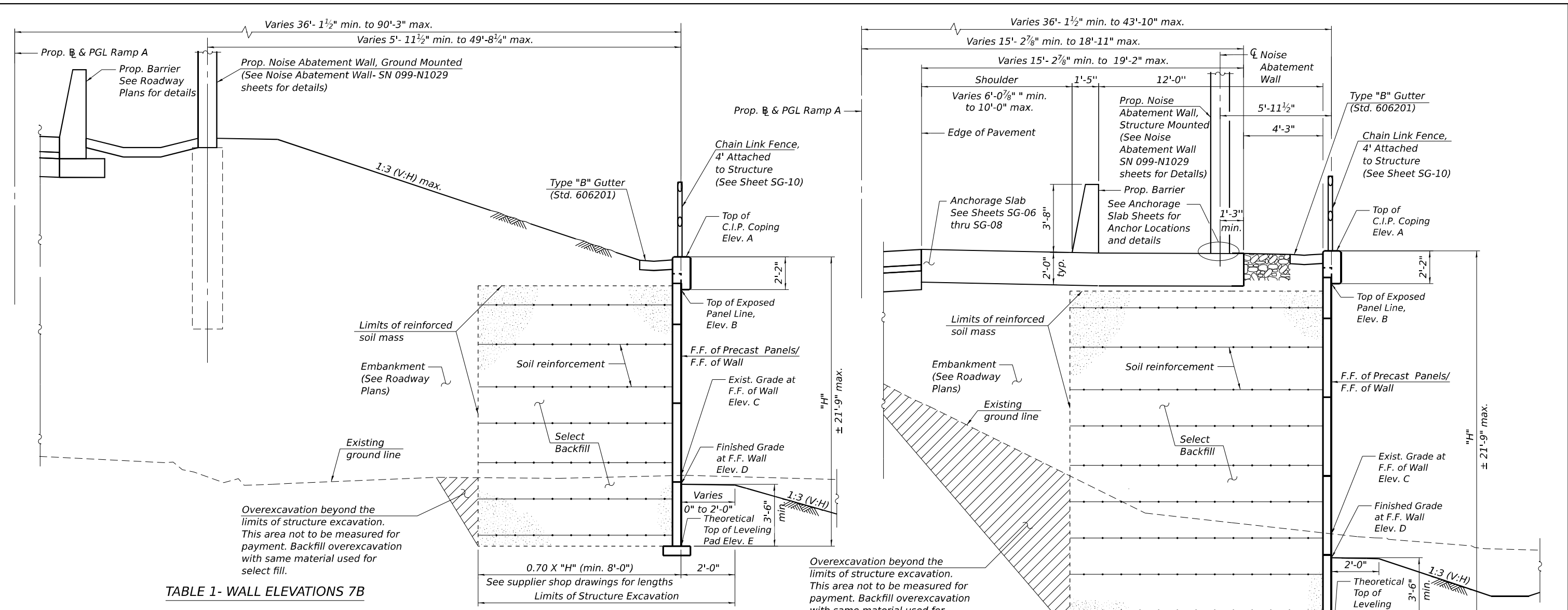


TABLE 1- WALL ELEVATIONS 7B

Station	Offset from Ramp A	A	B	C	D	E
		Top of C.I.P. Coping	Top of Exposed Panel Line	Exist. Grade at F.F. Wall	Finished Grade at F.F. Wall	Theoretical Top of Leveling Pad
613+09.22	76.96' Rt	521.29	519.12	526.21	531.29	527.79
613+15.50	76.14' Rt	523.47	521.30	526.22	530.85	527.35
613+30.00	67.33' Rt	528.49	526.32	526.44	529.38	525.88
613+60.00	48.94' Rt	538.88	536.71	525.49	527.13	523.63
613+69.91	42.73' Rt	542.31	540.14	525.91	526.43	522.93
613+80.31	36.12' Rt	543.95	541.78	526.10	525.70	522.20
613+85.25	36.19' Rt	543.86	541.70	526.00	525.37	521.87
613+90.00	36.26' Rt	543.78	541.61	525.90	525.22	521.72
613+96.82	36.36' Rt	543.66	541.49	525.76	525.00	521.50
614+20.00	36.77' Rt	543.25	541.08	526.00	524.89	521.39
614+50.00	37.42' Rt	542.71	540.54	526.24	524.74	521.24
614+61.50	37.70' Rt	542.50	540.34	526.07	524.68	521.18
614+80.00	38.18' Rt	542.17	540.01	525.85	524.59	521.09
615+10.00	39.07' Rt	541.64	539.47	526.14	524.44	520.94
615+33.40	39.84' Rt	541.22	539.05	527.32	524.32	520.82
615+39.71	40.06' Rt	541.11	538.94	528.10	524.61	521.11
615+40.00	40.07' Rt	541.10	538.93	528.10	524.62	521.12
615+42.24	40.14' Rt	541.06	538.89	528.20	524.77	521.27
615+45.59	40.26' Rt	541.00	538.83	528.26	524.98	521.48
615+46.89	40.31' Rt	540.98	538.81	528.30	525.06	521.56
615+59.71	40.78' Rt	540.77	538.61	529.06	525.52	522.02
615+70.00	41.17' Rt	540.61	538.44	529.97	525.47	521.97
615+74.95	41.36' Rt	540.53	538.36	530.44	525.45	521.95
615+89.95	41.95' Rt	540.29	538.12	532.02	528.80	525.30
616+00.00	42.37' Rt	540.12	537.96	533.16	531.06	527.56
616+30.00	43.64' Rt	539.64	537.47	537.09	537.79	534.29
616+38.68	43.85' Rt	539.50	537.33	536.59	539.50	536.00

TYPICAL WALL SECTION
(Sta. 613+09.22 thru Sta. 613+80.31)
(Looking East)

TYPICAL WALL SECTION
(Sta. 613+80.31 thru Sta. 616+38.68)
(Looking East)

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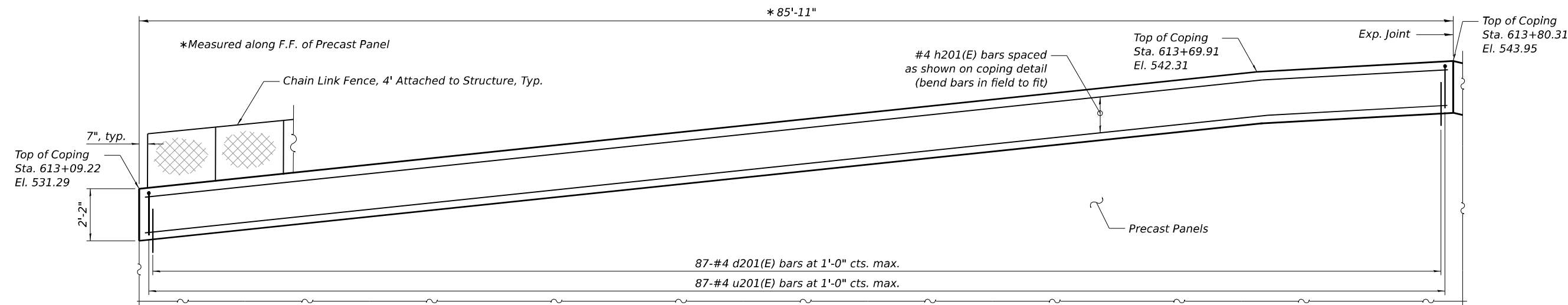
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

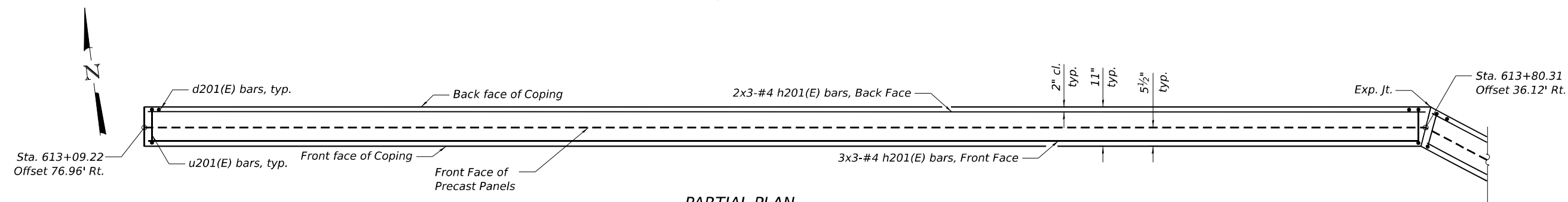
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SHEET SG-03 OF SG-14 SHEETS

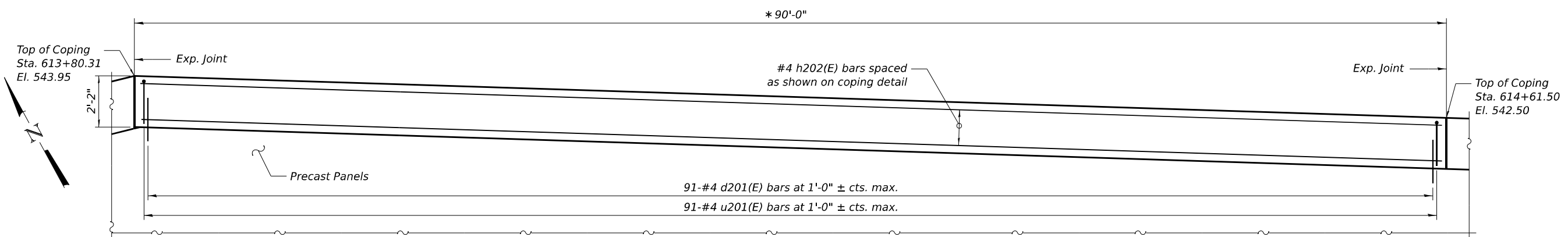
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80	2017-057F	WILL	1342	920
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



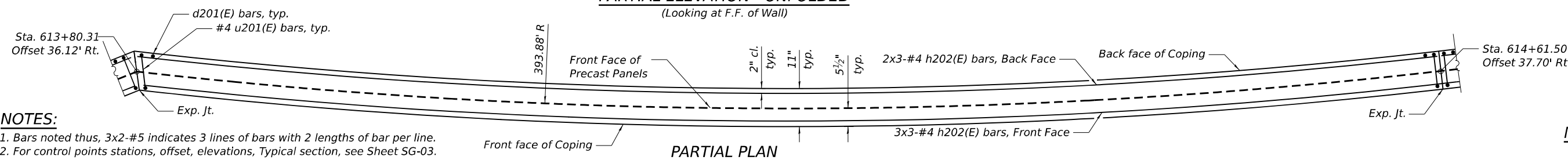
PARTIAL ELEVATION
(Looking at F.F. of Wall)



PARTIAL PLAN



PARTIAL ELEVATION - UNFOLDED
(Looking at F.F. of Wall)



PARTIAL PLAN

- NOTES:**
1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
 2. For control points stations, offset, elevations, Typical section, see Sheet SG-03.
 3. For coping detail and for coping construction joint spacing requirements see Coping Construction Joint - Plan Detail, see Sheet SG-02.
 4. The cost of the concrete and the reinforcement steel required for the coping shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.
 5. See Sheet SG-05 for Bill of Material (For information only).

MIN. LAP LENGTH
#4 Bar = 2'-11"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COPING PLAN AND ELEVATION 1
STRUCTURE NO. 099-W127

SHEET SG-04 OF SG-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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1111 BURLINGTON AVE., SUITE 111 - LISLE, IL 60532
(630) 641-9900

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CHECKED	-	RRD

REVISED	-
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REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COPING PLAN AND ELEVATION 2
STRUCTURE NO. 099-W127

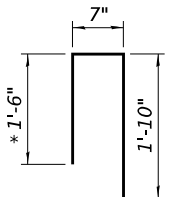
SHEET SG-05 OF SG-14 SHEETS

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80	2017-057F	WILL	1342	922
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

NOTES:

1. See Sheet SG-04 for notes.

MIN. LAP LENGTH
#4 Bar = 2'-11"

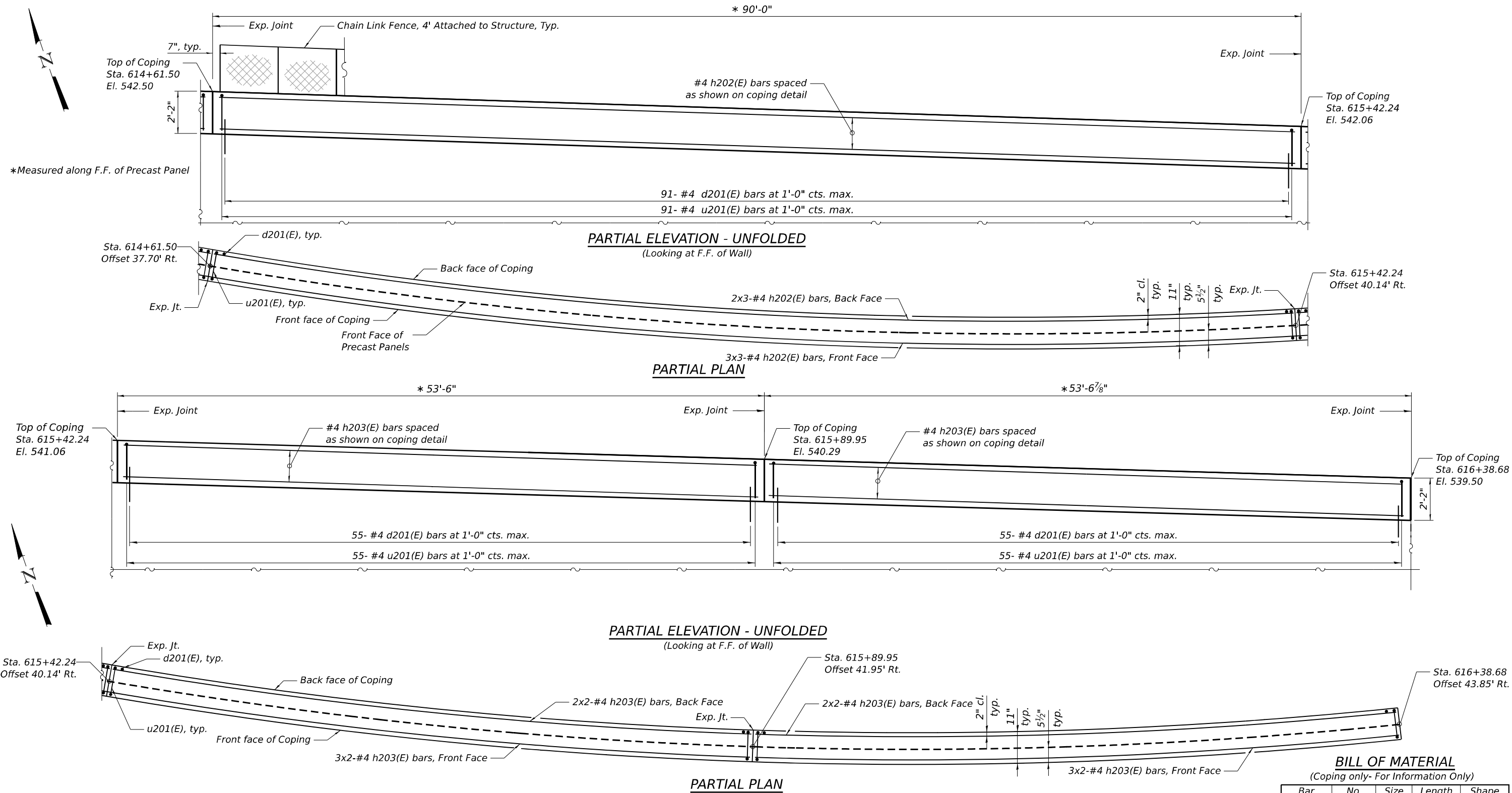


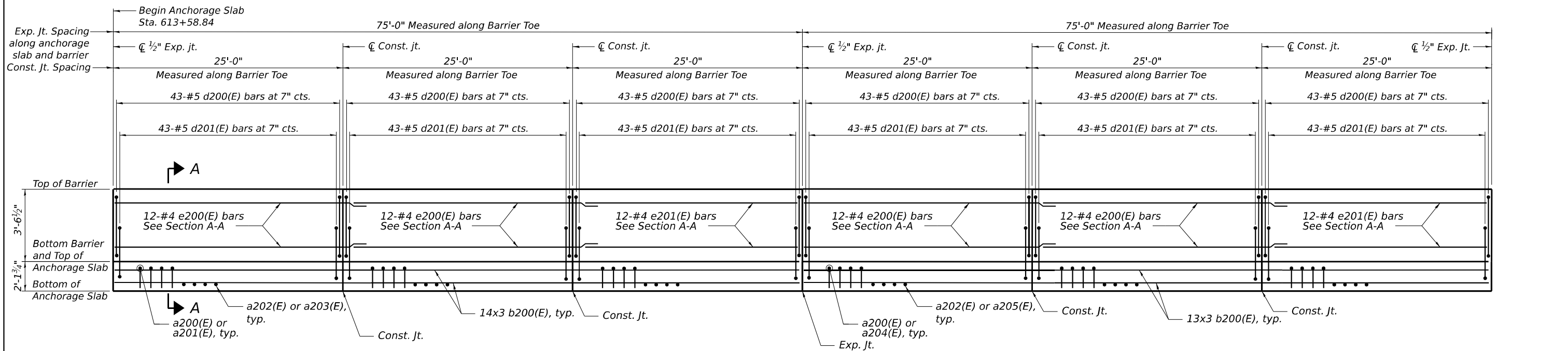
BAR u201(E)
* cut bar to fit

BILL OF MATERIAL

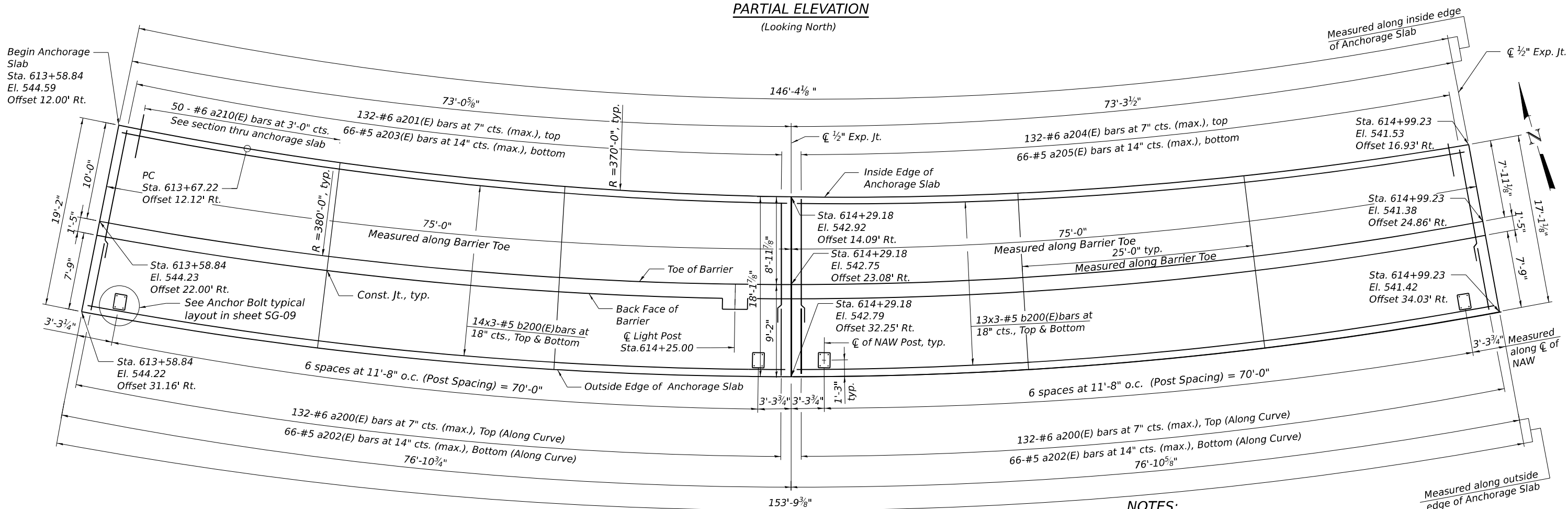
(Coping only- For Information Only)

Bar	No.	Size	Length	Shape
d201(E)	379	#4	2'-0"	—
h201(E)	15	#4	30'-11"	—
h202(E)	30	#4	31'-11"	—
h203(E)	20	#4	28'-1"	—
u201(E)	379	#4	3'-11"	┐
Concrete Structures			Cu. Yd.	25.3
Reinforcement Bars, Epoxy Coated			Pound	2,830





PARTIAL ELEVATION
(Looking North)



PARTIAL PLAN

MIN. LAP LENGTH
#4 Bar 2'-8"
#5 Bar 3'-6"
#6 Bar 4'-0"

- NOTES:**
1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
 2. For Section A-A, see Sheet SG-08.
 3. See Sheet SG-08 for Bill of Material.
 4. For Light Pole Bump out Details, see Sheet SG-08.
 5. The contractor shall verify the locations, spacing and elevations of the Noise Abatement Wall post prior to the installation of the Noise Abatement Wall Anchor Rod Assembly.

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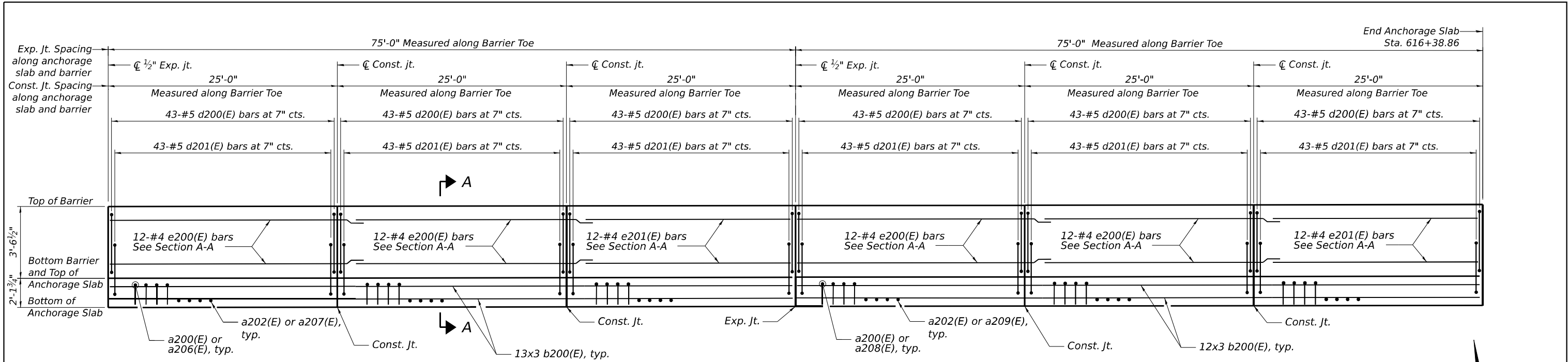
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB PLAN AND ELEVATION 1
STRUCTURE NO. 099-W127

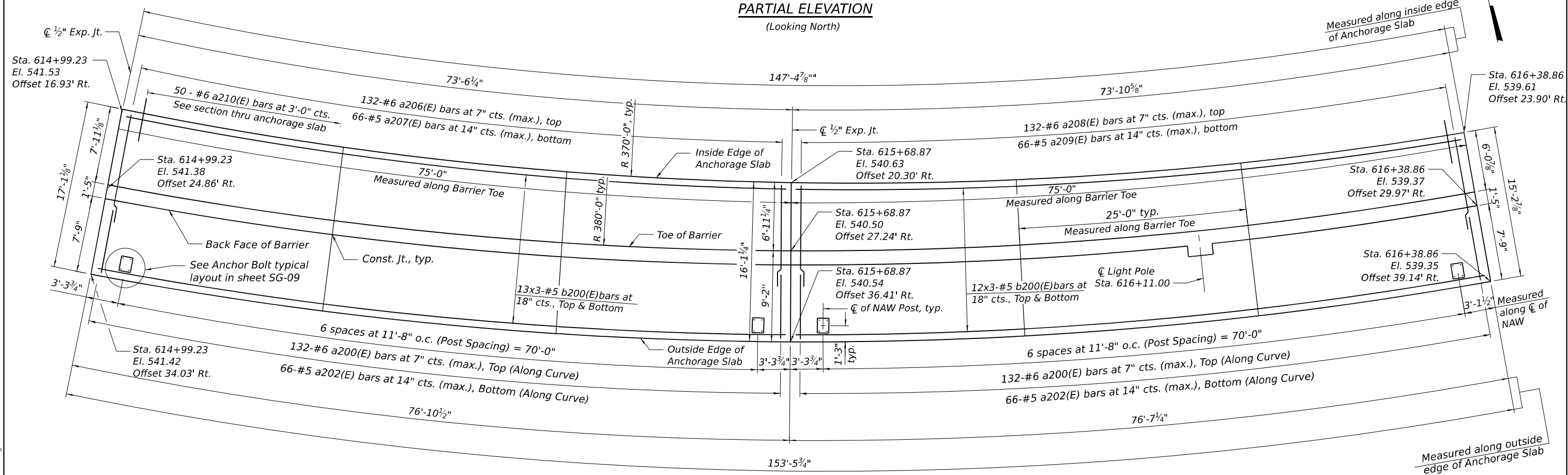
SHEET SG-06 OF SG-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	923
CONTRACT NO. 62F94				

ILLINOIS FED. AID PROJECT



PARTIAL ELEVATION
(Looking North)



PARTIAL PLAN

MIN. LAP LENGTH
#4 Bar 2'-8"
#5 Bar 3'-6"
#6 Bar 4'-0"

NOTES:
1. See Sheet SG-06 for notes.

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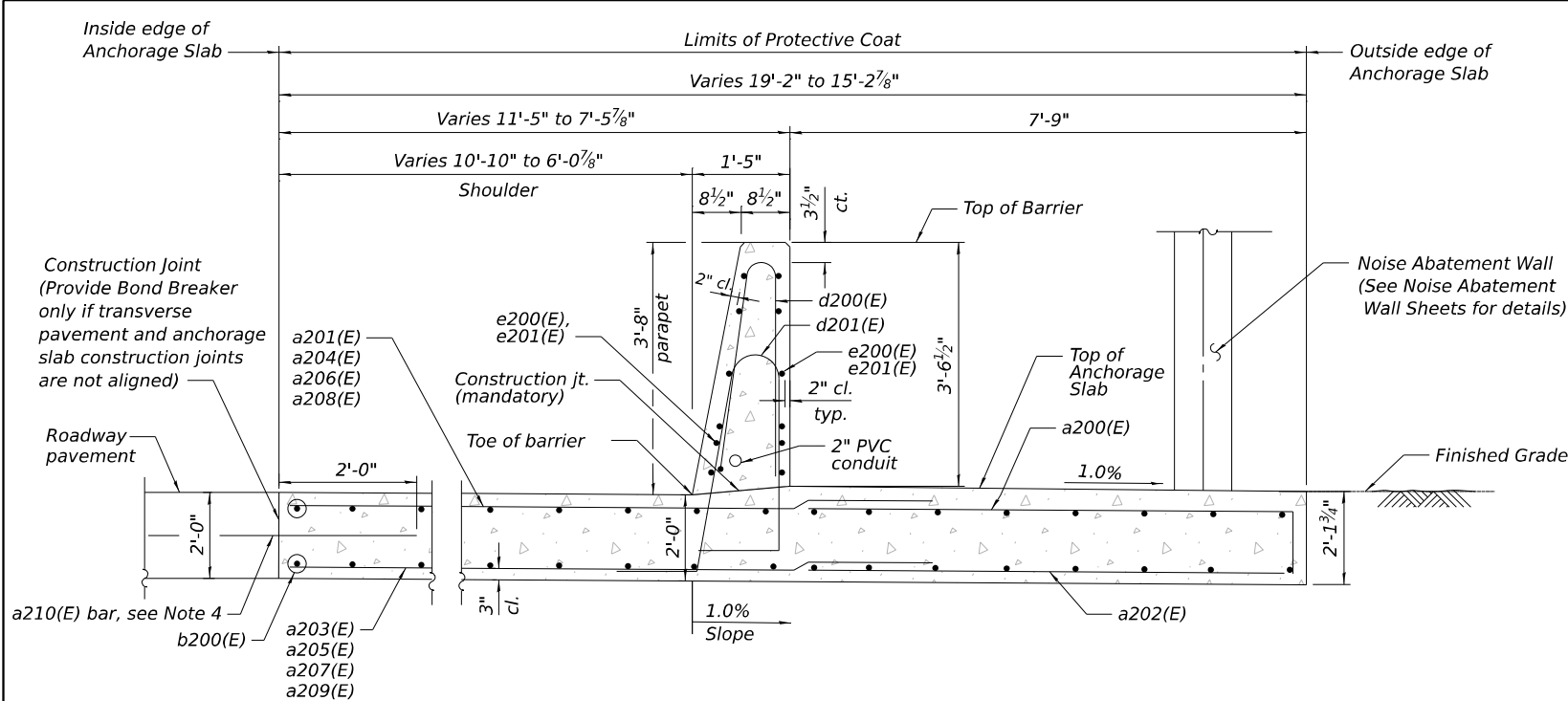
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

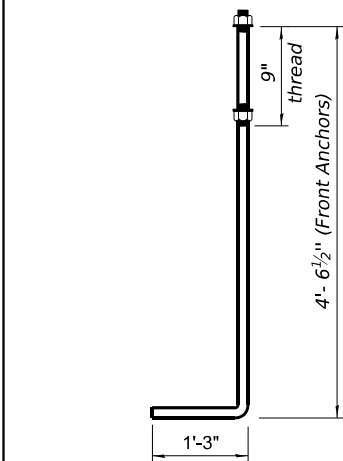
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STRUCTURE NO. 099-W127

SHEET SG-07 OF SG-14 SHEETS

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ILLINOIS FED. AID PROJECT				

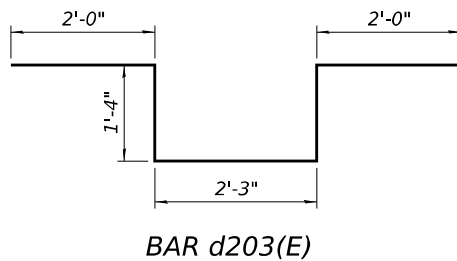


SECTION A-A

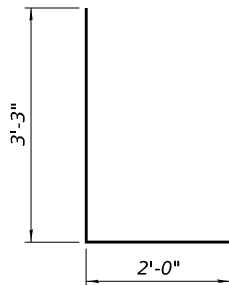


ANCHOR ROD

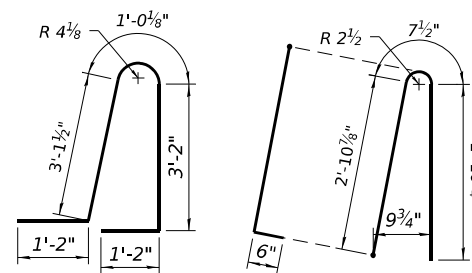
Diameter as specified for light poles.
(ASTM F 1554 Grade 105) Full length
hot dipped galvanized. Provide 3 flat
washers, 1 isolation washer, 1 regular
nut, and 1 locknut for each rod.
Cost of anchor rods and hardware is
included in Concrete Superstructure.



BAR d203(E)

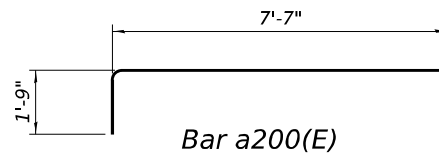


BAR d202(E)

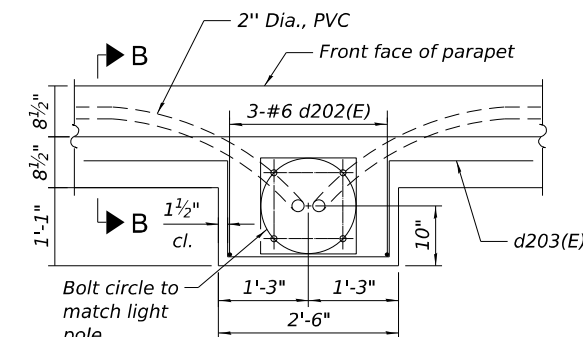


Bar d201(E)

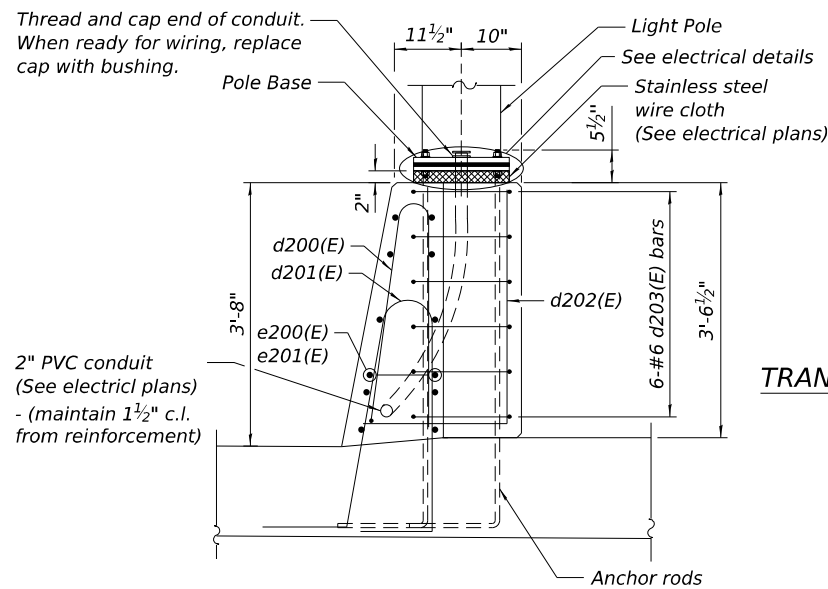
Bar d200(E)



Bar a200(E)



LIGHT POLE BUMPOUT PLAN



SECTION B-B

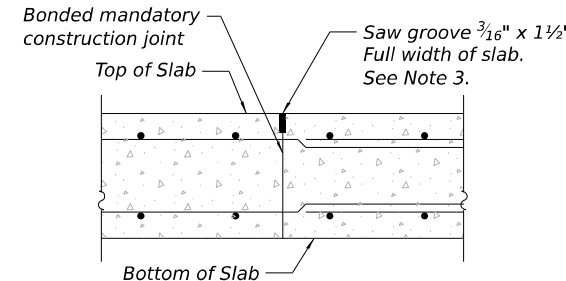
See Section A-A for reinforcement in Anchorage slab.

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a200(E)	528	#6	9'-4"	
a201(E)	132	#6	15'-7"	
a202(E)	264	#5	7'-7"	
a203(E)	66	#5	15'-1"	
a204(E)	132	#6	14'-5"	
a205(E)	66	#5	13'-11"	
a206(E)	132	#6	13'-5"	
a207(E)	66	#5	12'-11"	
a208(E)	132	#6	12'-5"	
a209(E)	66	#5	11'-11"	
a210(E)	100	#6	4'-0"	
b200(E)	312	#5	27'-11"	***
d200(E)	516	#5	7'-0"	
d201(E)	516	#5	9'-8"	
d202(E)	6	#6	5'-3"	
d203(E)	12	#6	8'-11"	
e200(E)	96	#4	27'-8"	
e201(E)	48	#4	24'-8"	
Concrete Superstructure			Cu Yd	439.0
Protective Coat			Sq Yd	796
Reinforcement Bars, Epoxy Coated			Pound	45,700
Noise Abatement Wall Anchor Rod Assembly			Each	28

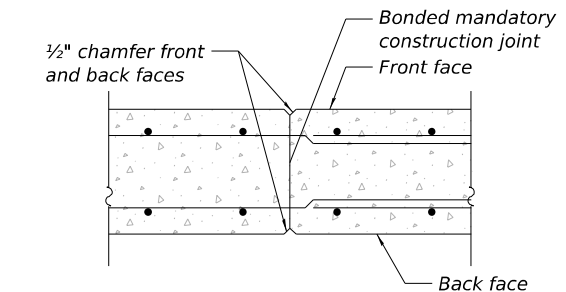
*** Bars are to be provided straight and are to be sprung and tied at the required radius in the field.

NOTES:

- The Polyurethane Sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.
- Cost of expansion joints shall be included in Concrete Superstructure.
- The saw groove shall use a hot poured joint sealer per Article 1050.02 of the standard Specification, cost included in Concrete Superstructure.
- #6 a210(E) 4'-0" long dowel bars shall be placed at mid-depth of adjacent pavement at a maximum of 3'-0" plan spacing. If dowel bar aligns within 1'-6" of a pavement joint, the dowel bar shall be repositioned such that it is placed at a minimum of 1'-6" from either side of the pavement joint.



TRANSVERSE CONSTRUCTION JT. IN SLAB - SECTION



TRANSVERSE CONSTRUCTION JT. IN BARRIER - PLAN

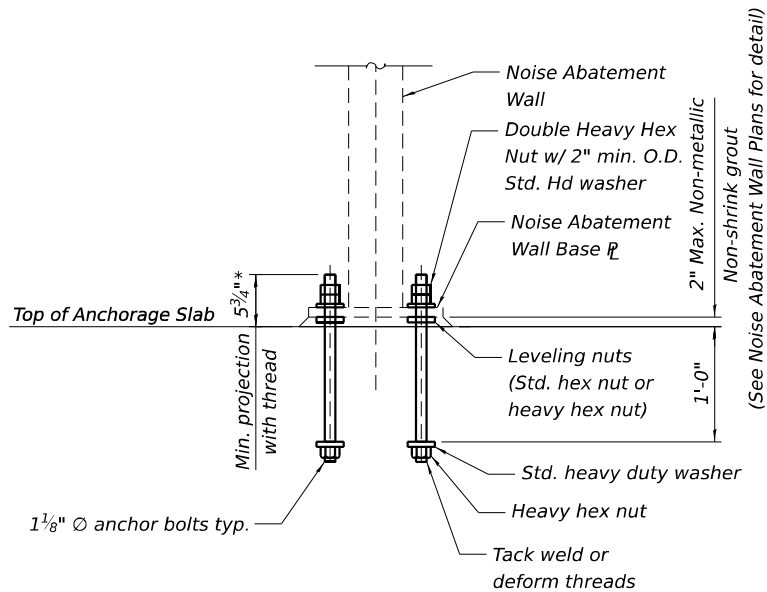
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB DETAILS AND TYPICAL SECTION
STRUCTURE NO. 099-W127

SHEET SG-08 OF SG-14 SHEETS

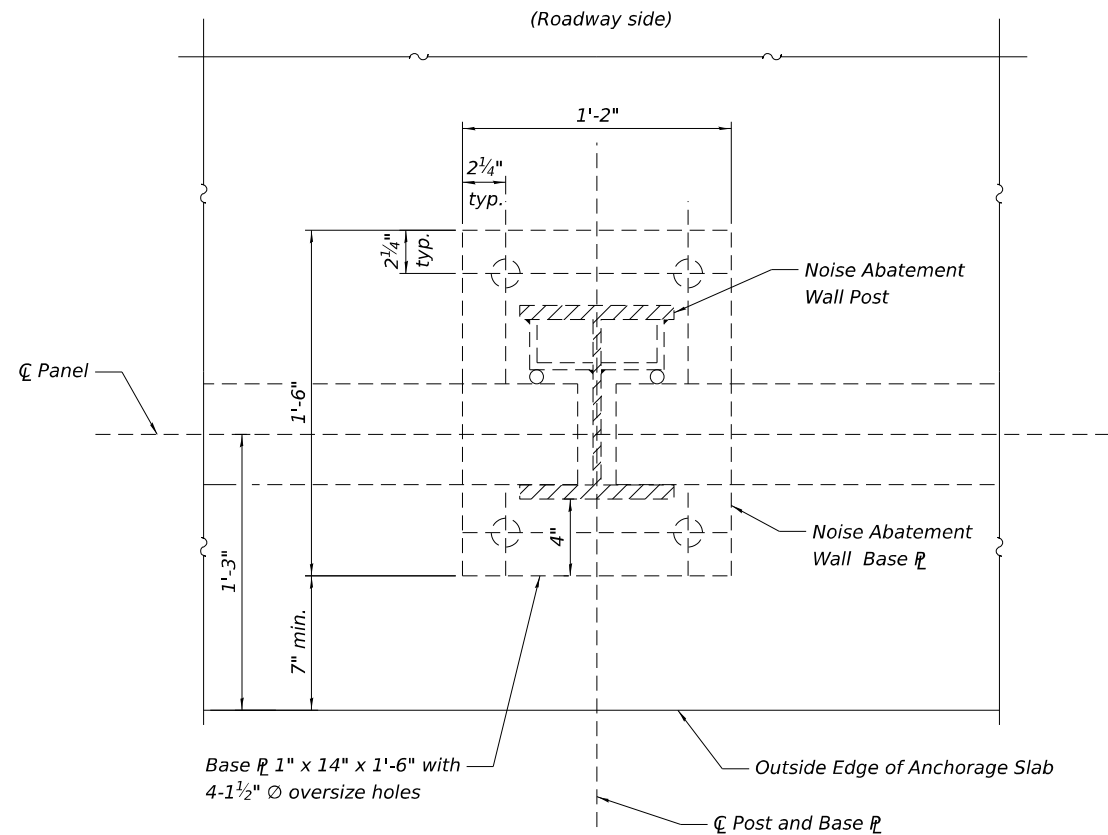
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ILLINOIS FED. AID PROJECT				

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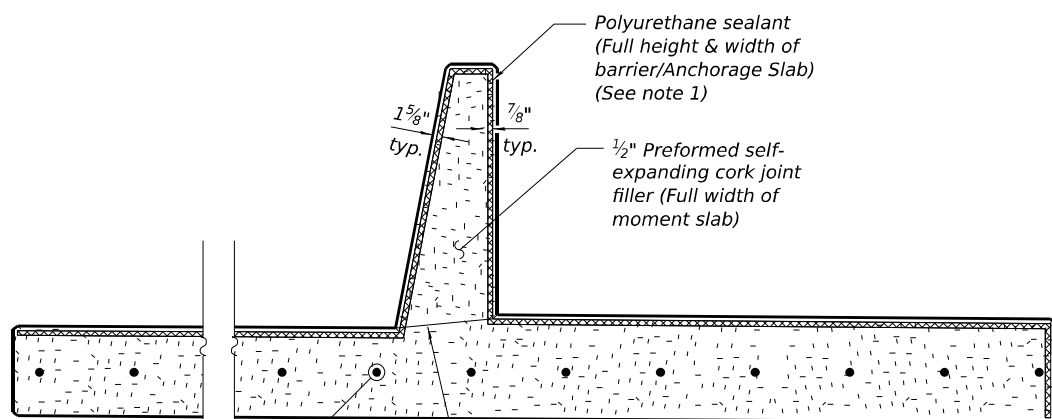


**NOISE ABATEMENT WALL
ANCHOR BOLT SIDE VIEW**

* Verify with Noise Abatement Wall
Manufacture before ordering bolts.



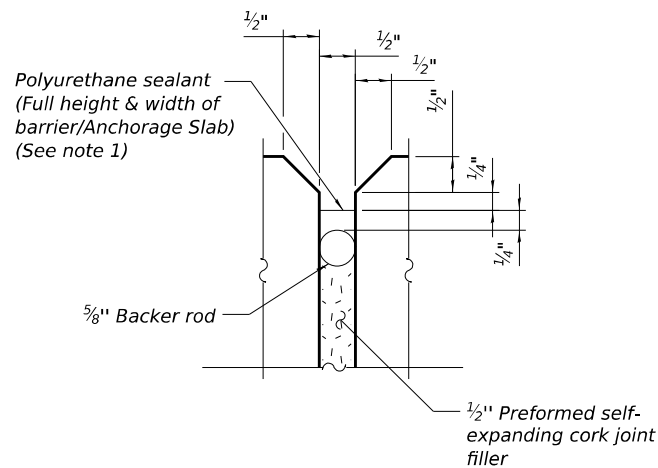
**NOISE ABATEMENT WALL
BASE PLATE AND ANCHOR BOLT LAYOUT**



Smooth Epoxy-Coated Dowel Bar
1 1/2"Ø, 18" Long (Spaced 12", Max)
Cost to be included in Concrete
Superstructure

EXPANSION JOINT DETAILS

See Note 2 on SG-08



NOTE:

1. See Sheet SG-08 for additional notes.
2. The Contractor shall use a 1/4" thick template plate or other Engineer approved methods to maintain the anchor bolts' alignment during concrete placement. The template plate shall match the plan dimensions of the Noise Abatement Wall base plate, for the installation of the Noise Abatement Wall Anchor Rod Assembly. The template plate must not be embedded into the concrete and must be removed prior to the installation of the Noise Abatement Wall post and grout pad. Plate and other positioning aids become Contractor's property. Cost included in "Noise Abatement Wall Anchor Rod Assembly".

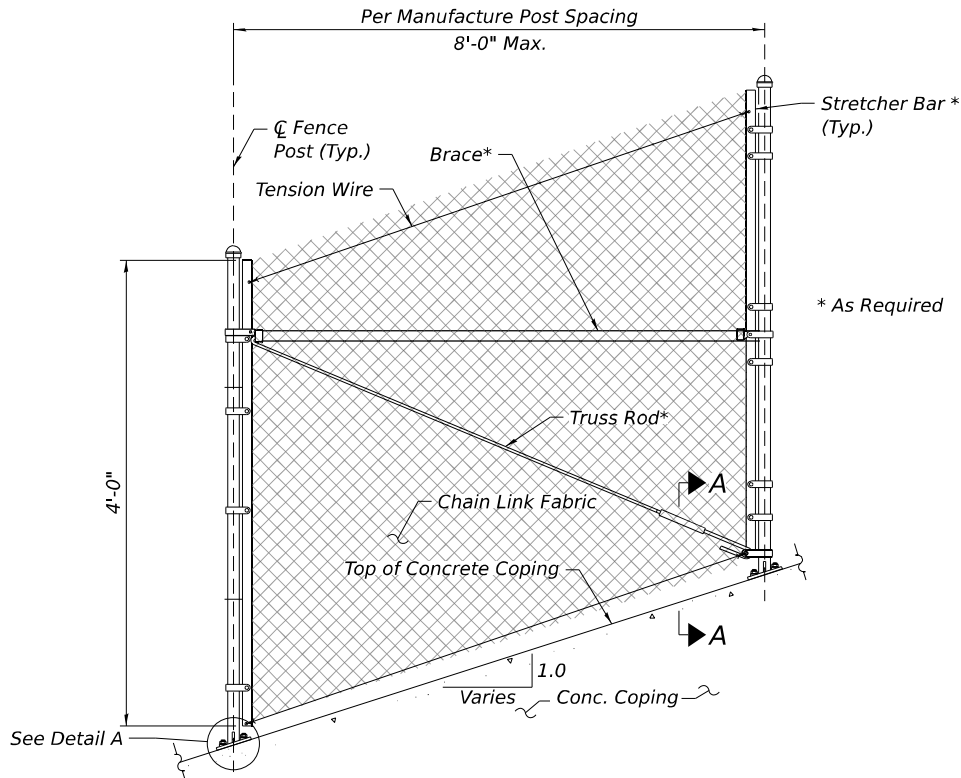
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB DETAILS
STRUCTURE NO. 099-W127**

SHEET SG-09 OF SG-14 SHEETS

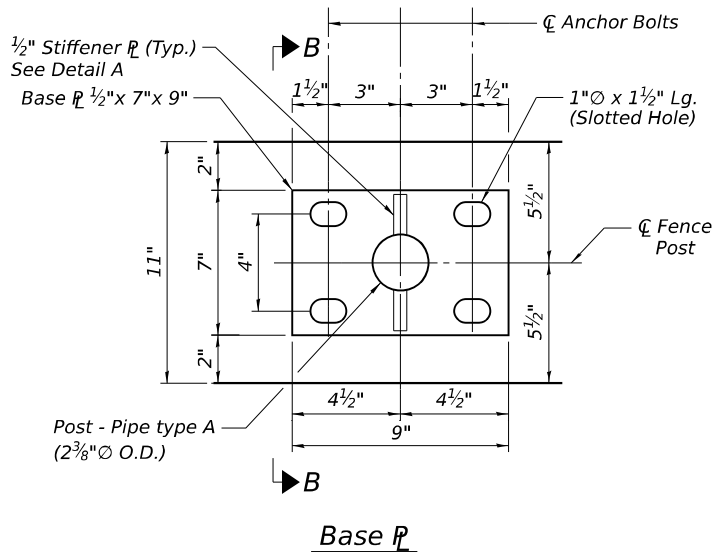
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	926
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

USER NAME = jsandoval	DESIGNED - JSS	REVISED -
	CHECKED - RRD	REVISED -
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PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -



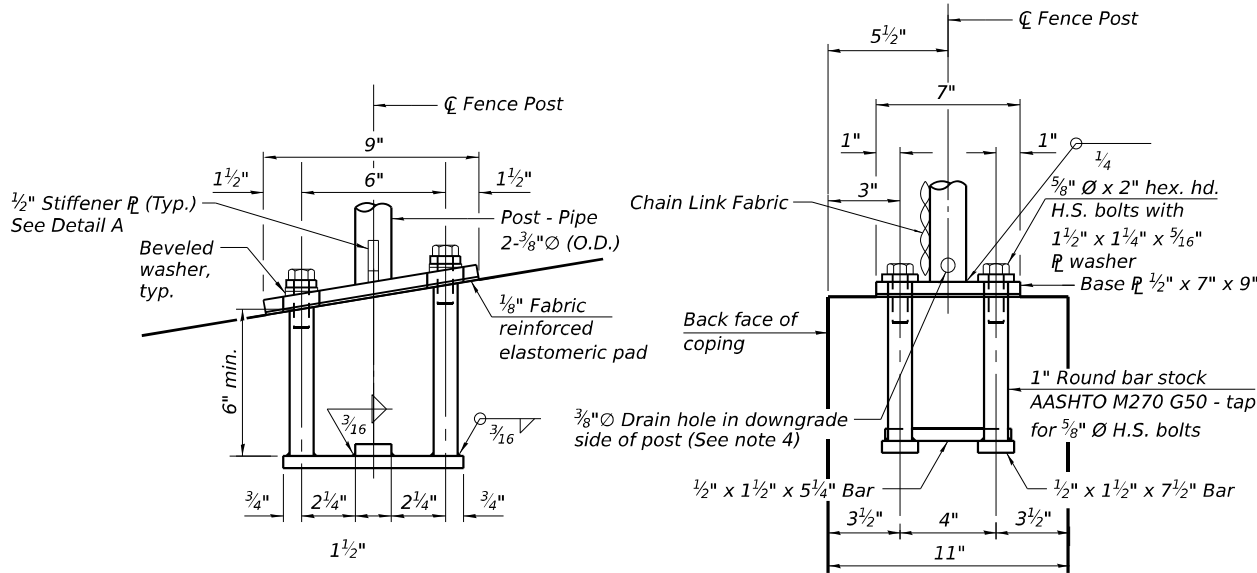
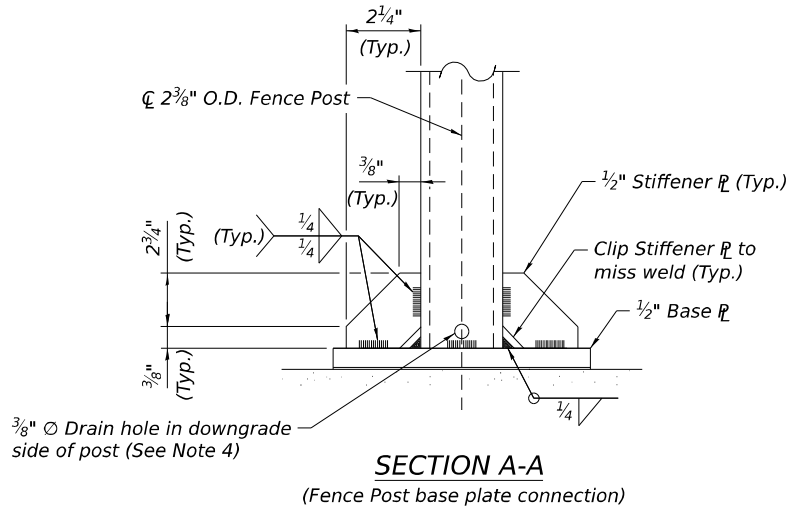
CHAIN LINK FENCE ELEVATION

(Along top of Concrete Coping)



BASE PLATE NOTES:

- Base Plates shall be fabricated from material meeting the requirements of AASHTO M270 Grade 50.
- Base Plates and Posts shall be Hot Dipped Galvanized after fabrication in accordance with AASHTO M111.
- All fabrication shall be per Article 505.04 of the Standard Specifications.
- All bolts, nuts, washers and anchors shall be galvanized according to AASHTO M 232.



Detail A

SECTION B-B

(Stiffener not shown for clarity)

ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 3/8" ϕ fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

- See IDOT Highway Standard Drawing 664001-02 for additional fence details.
- Fence shall be continuous over concrete coping expansion joints.
- At all fence locations, the end posts shall be 7" from the the coping expansion joint and ends.
- Drill Drain hole to miss fillet weld and prior to galvanizing. Hole shall be drilled as close to the weld as possible.
- Edge distance from a construction or expansion joint in the proposed copings to an expansion anchor shall be per manufacturer's specifications.
- For CIP Concrete coping details see sheet SG-02.
- Place reinforcement bars to miss anchor rod locations.
- All heavy hex nuts shall be according to ASTM A 563 grade DH.
- All fully threaded anchor rods shall be ASTM F1554 grade 105.
- The post base plate shall be fastened to the top of the cast in place coping snug tight and given an additional 1/8" turn.

BILL OF MATERIAL

Item	Unit	Quantity
Chain Link Fence, 4' Attached to Structure	Foot	373

MODEL: Default
FILE NAME: 099W127-62F94-SG-10-Chain Link Fence.dgn



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PLOT SCALE	= 0:1.9999 " = 1" / in.
PLOT DATE	= 10/28/2025

DESIGNED	- JSS
CHECKED	- RRD
DRAWN	- TCK
CHECKED	- RRD

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CHAIN LINK FENCE ATTACHED TO STRUCTURE
STRUCTURE NO. 099-W127**

SHEET SG-10 OF SG-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	927
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE I-80 DESCRIPTION Retaining Wall No. 7 - Ramp A LOGGED BY AA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG Latitude Longitude Diedrich D-50 Auto
DRILLING METHOD HSA HAMMER TYPE HAMMER EFF (%) 95.5

STRUCT. NO. 099-W127
Station
BORING NO. RWB-57
Station 613+21.30
Offset 36.96ft RT
Ground Surface Elev. 525.80 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. 17.00 ft Stream Bed Elev. N/A ft Groundwater Elev.: First Encounter Dry ft Upon Completion N/A ft After Hrs. N/A ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
-------------------------------	--------------------------------	----------------------------	------------------------------	--	-------------------------------	--------------------------------	----------------------------	------------------------------

4 inches of Asphalt	525.47				Medium Dense to Very Dense			
8 inches of Aggregate Subbase	524.80				Gray, Moist			
		28			GRAVEL, trace clay seams (GP)	504.30	50/2"	
Loose to Medium Dense		14		6	(continued)			
Brown, Moist		10			WEATHERED LIMESTONE	503.80		9
SAND, with gravel, trace clay					Auger refusal at 22.0 feet			
seams (SPG)					End of Boring			
		4						
		6		10				
		9						
		-5						
		5						
		6		11				
		8						
		5						
Cobbles at 9 feet		7		9				
		8						
		-10						
		4						
		3		10				
		4						
	512.30							
Medium Dense		4						
Brown, Moist		6		10				
CLAYEY GRAVEL (GC)		7						
		-15						
	509.80							
Soft		2						
Gray, Very Moist		2	0.4	38				
SILTY CLAY, trace gravel		3	P					
(CL/ML)								
	507.30							
Medium Dense to Very Dense		14						
Gray, Moist		23		14				
GRAVEL, trace clay seams (GP)		5						
		-20						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE I-80 DESCRIPTION Retaining Wall No. 7 - Ramp A LOGGED BY AA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG Latitude Longitude Mobile B-57 Auto
DRILLING METHOD HSA HAMMER TYPE HAMMER EFF (%) 89

STRUCT. NO. 099-W127
Station
BORING NO. RWB-58
Station 613+41.20
Offset 60.34ft RT
Ground Surface Elev. 525.45 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. N/A ft Stream Bed Elev. N/A ft Groundwater Elev.: First Encounter 509.4 ft Upon Completion N/A ft After Hrs. N/A ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
-------------------------------	--------------------------------	----------------------------	------------------------------	--	-------------------------------	--------------------------------	----------------------------	------------------------------

4 inches of Asphalt	525.11				WEATHERED LIMESTONE			
8 inches of Aggregate Subbase	524.45					504.45		
		4			Gray			
Loose to Medium Dense		11		11	LIMESTONE, slightly weathered,			
Brown, Moist		8			slightly fractured			
GRAVEL, with sand and clay								
seams (GPS)					Run 1: 21' - 26'			
		2			Recovery: 87%			
		3		13	RQD: 45% (Poor)			
		4						
		-5						
		2						
		3		13	Run 2: 26' - 31'			
		2			Recovery: 100%			
		2			RQD: 83% (Good)			
	516.95							
Loose to Very Dense		1						
Brown, Moist to Wet		5		15				
CLAYEY GRAVEL, trace sand		11						
(GC)		-10						
		3						
		2		16	End of Boring			
		6						
		8						
		50/3"		16				
		-15						
	509.45							
Loose to Very Dense		50/5"						
Gray, Moist to Wet				20				
GRAVEL (GP)								
		2						
		2		12				
		3						
	505.45	-20						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

PLACE HOLDER FOR FUTURE BORING LOGS

RWB-59

RWB-60

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PLOT DATE	= 10/28/2025	CHECKED -	RRD	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2 (2 OF 4)
STRUCTURE NO. 099-W127

SHEET SG-12 OF SG-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	929
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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PLOT DATE	= 10/28/2025	CHECKED -	RRD	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3 (3 OF 4)
STRUCTURE NO. 099-W127

SHEET SG-13 OF SG-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	930
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	

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PLOT DATE	= 10/28/2025	CHECKED -	RRD	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4 (4 OF 4)
STRUCTURE NO. 099-W127

SHEET SG-14 OF SG-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	931
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	

Existing Structures: None.

Traffic Control: EB I-80 and SB Chicago St. Traffic will be detoured to the east at Richards St. during construction.

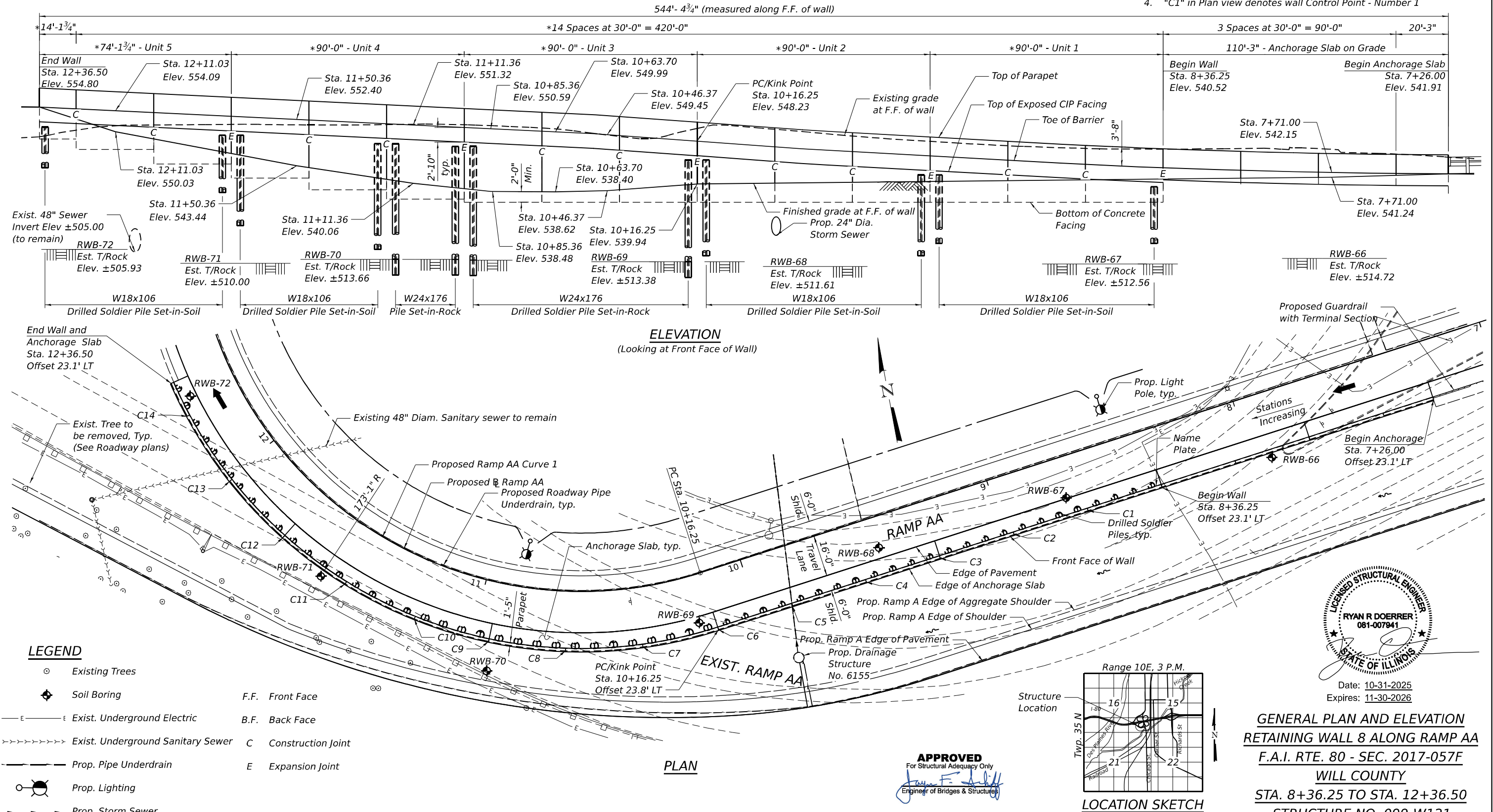
No Salvage.

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

FIELD UNITS

NOTES:

1. Stations and offsets are measured from the g of Ramp AA to the front face of cast-in-place concrete facing.
2. For General Notes, Index of Sheets, Profile Grade, Curve Data and Total Bill of Material, see Sheet SH-02.
3. The Contractor shall exercise extreme caution during wall construction to make certain that the construction activities will not have detrimental effects on the adjacent utilities and other facilities.
4. "C1" in Plan view denotes wall Control Point - Number 1



MODEL: Default
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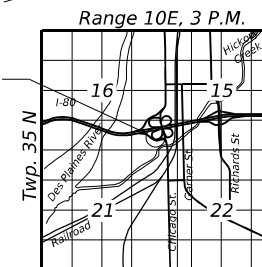
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DESIGNED - JSS	REVISED -
CHECKED - RRD	REVISED -
DRAWN - TCK	REVISED -
CHECKED - RRD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

APPROVED
For Structural Adequacy Only
Jay F. Schi...
Engineer of Bridges & Structures

SHEET SH-01 OF SH-22 SHEETS



LOCATION SKETCH



Date: 10-31-2025
Expires: 11-30-2026

GENERAL PLAN AND ELEVATION
RETAINING WALL 8 ALONG RAMP AA
F.A.I. RTE. 80 - SEC. 2017-057F
WILL COUNTY
STA. 8+36.25 TO STA. 12+36.50
STRUCTURE NO. 099-W121

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	932
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES:

1.

Reinforcement bars designated (E) shall be epoxy coated.
2.

Slipforming of the parapets is not allowed.
3.

The contractor is responsible for the design and performance of the lagging using no less than a 3-inch nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1,000 psi.
4.

No field welding is permitted except as specified in the contract documents.
5.

Any storage of construction equipment and material behind the wall is not allowed.
6.

Concrete sealer shall be applied to exposed surfaces of the new wall and back face of anchorage slab.
7.

Protective coat shall be applied to top of anchorage slab, front face of barrier, and top of barrier.
8.

The Contractor shall field-verify locations of existing underground utilities prior to beginning work. Existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to directions given on the Civil Plans. The Contractor shall take all necessary precautions to protect existing utilities to remain during all stages of construction. Any damage to existing utilities to remain caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
9.

Coordinate Drainage Structure Number 6155 installation with wall construction.
10.

The Pipe Underdrains for Structures, 4" shall be sloped to drain towards Drainage Structure 6155. A non- perforated pipe per Section 601 shall be used to connect the Pipe Underdrain for Structure to Drainage Structure 6155. Cost included in Pipe Underdrain for Structures, 4".
11.

Excavation limits included in Structure Excavation are measured vertically from the bottom of the concrete facing to the top of the concrete facing and measured horizontally 2'-0" from the concrete facing front face. Excavation required for the concrete facing will be included in the cost of Concrete Structures. Excavation required for Pipe Underdrain will be included in the cost of Pipe Underdrains for Structures, 4".

SUGGESTED SEQUENCE OF CONSTRUCTION

1.

Locate all existing utilities. The Contractor shall coordinate any required improvements to, or removals of existing utilities with utility owner(s) and IDOT.
2.

Drill shaft excavations for Soldier Piles to specified bottom elevations maintaining required tolerances and hole stability.
3.

Remove loose material and excess water from excavated shafts. Place Soldier Piles in holes and properly locate and brace.
4.

Place Encasement Concrete in the holes to the level of the base of the proposed Concrete Facing, then place Controlled Low Strength Material (C.L.S.M) to the existing ground surface.
5.

After concrete has been placed, excavate the soil in front of the wall to proposed grade with simultaneous removal of C.L.S.M. at the face of the Soldier Piles and place lagging as specified.
6.

Construct wall drainage features at the base of the wall.
7.

Place shear studs on Soldier Piles and construct Concrete Facing.
8.

Complete final grading at the base of the wall.
9.

Construct anchorage slab and barrier.

INDEX OF SHEETS

- SH-01

General Plan and Elevation
- SH-02

General Data
- SH-03

Wall Cross Section and Detail
- SH -04

Plan and Elevation Unit 1
- SH-05

Plan and Elevation Unit 2
- SH-06

Plan and Elevation Unit 3
- SH-07

Plan and Elevation Unit 4
- SH-08

Plan and Elevation Unit 5
- SH-09

Pile Layout and Details
- SH-10

Anchorage Slab Plan and Elevation Slab on Grade
- SH-11

Anchorage Slab Plan and Elevation Unit 1
- SH-12

Anchorage Slab Plan and Elevation Unit 2
- SH-13

Anchorage Slab Plan and Elevation Unit 3
- SH-14

Anchorage Slab Plan and Elevation Unit 4
- SH-15

Anchorage Slab Plan and Elevation Unit 5
- SH-16

Anchorage Slab Details and Bill of Material
- SH-17

Boring Logs (1 of 6)
- SH-18

Borings Logs (2 of 6)
- SH-19

Borings Logs (3 of 6)
- SH-20

Borings Logs (4 of 6)
- SH-21

Borings Logs (5 of 6)
- SH-22

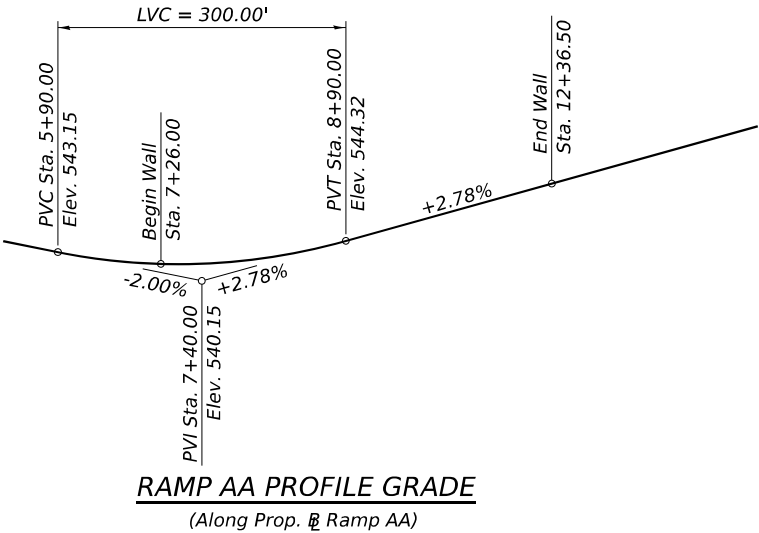
Borings Logs (6 of 6)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	259.0
Concrete Structures	Cu. Yd.	130.4
Concrete Superstructure	Cu. Yd.	430.0
Protective Coat	Sq. Yd.	630
Stud Shear Connectors	Each	878
Reinforcement Bars, Epoxy Coated	Pound	63,990
Name Plates	Each	1
Furnishing Soldier Piles (W Section)	Foot	1,580
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	8,853
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	679
Untreated Timber Lagging	Sq. Ft.	2,648
Concrete Sealer	Sq. Ft.	6.332
Geocomposite Wall Drain	Sq. Yd.	226
Pipe Underdrains for Structures, 4"	Foot	453

WALL ELEVATIONS TABLE

Location	Station	Offset from Ramp A	A	B	C	D
			Toe of Barrier	Top of Prop. Exposed CIP Facing	Finished Grade at F. F. of Wall	Existing Grade at F. F. of Wall
Begin Wall	8+36.25	23.08' Lt	543.06	540.35	540.90	546.66
C1	8+66.25	23.08' Lt	543.71	541.00	540.74	546.81
C2	8+96.25	23.08' Lt	544.50	541.78	540.58	547.31
C3	9+26.25	23.08' Lt	545.34	542.63	540.42	548.17
C4	9+56.25	23.08' Lt	546.17	543.45	540.26	549.18
C5	9+86.25	23.08' Lt	547.12	544.41	540.10	550.50
C6	10+16.25	23.08' Lt	548.24	545.53	539.85	550.66
C7	10+42.25	23.08' Lt	549.29	546.58	538.83	549.14
C8	10+68.25	23.08' Lt	550.12	547.41	538.43	550.74
C9	10+94.25	23.08' Lt	550.84	548.13	539.02	551.38
C10	11+20.25	23.08' Lt	551.57	548.86	540.83	551.41
C11	11+46.25	23.08' Lt	552.29	549.57	543.09	551.35
C12	11+72.25	23.08' Lt	553.01	550.30	545.82	551.44
C13	11+98.25	23.08' Lt	553.73	551.02	548.65	551.33
C14	12+24.25	23.08' Lt	554.46	551.75	552.50	550.32
End Wall	12+36.50	23.08' Lt	554.80	552.09	554.80	549.07

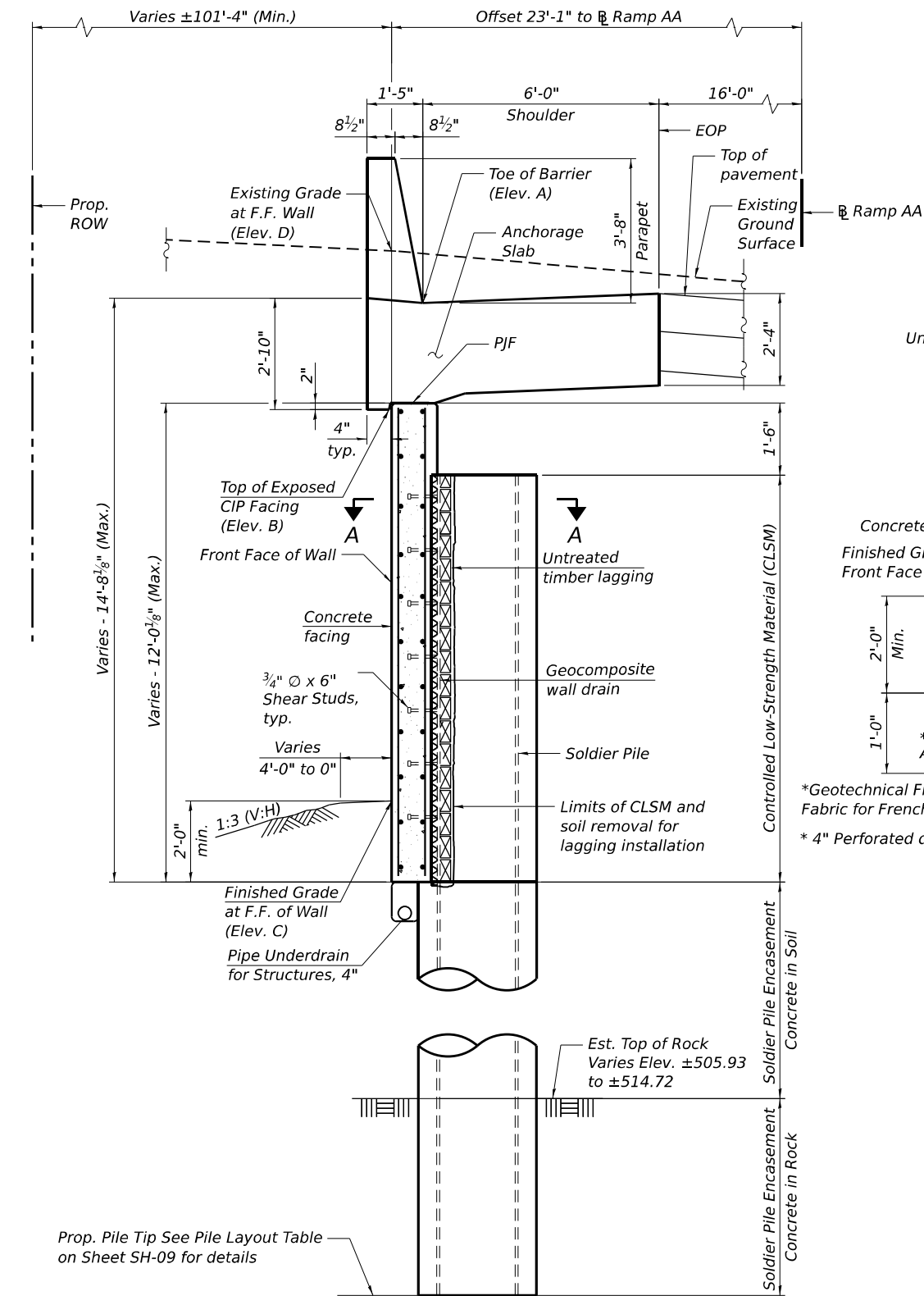


PR RAMP AA
CURVE 1

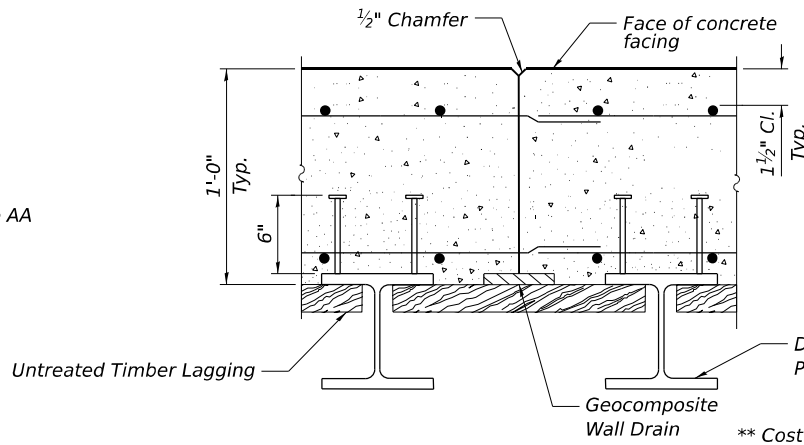
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Δ = 150°52'29" (RT)
D = 38°11'50"
R = 150.00'
T = 577.40'
L = 394.99'
E = 446.57'
e = 6.0%
P.C. Sta. = 10+16.25
P.T. Sta. = 14+11.24

STA. 8+36.25 TO 12+36.50
BUILT 20-- BY
STATE OF ILLINOIS
F.A.I. Rt. 80 Sec. 2017-057F
LOADING HL-93
STR. NO. 099-W121

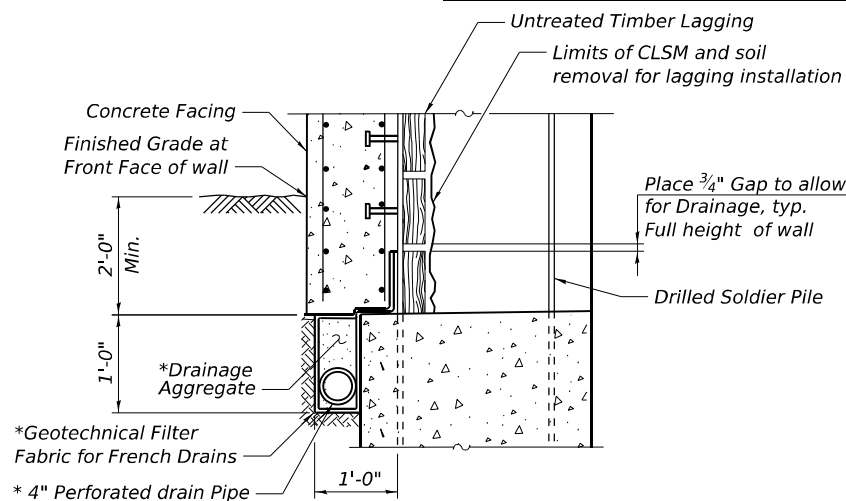
NAME PLATE
See Std. 515001



TYPICAL SECTION THRU SOLDIER PILE
(Looking West)
(Sta. 8+36.25 to Sta. 12+36.50)

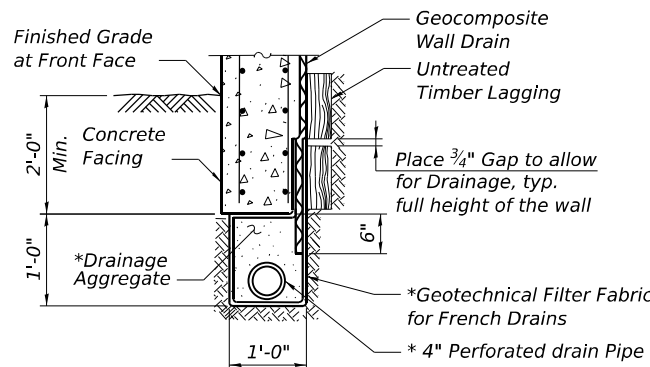


CONSTRUCTION JOINT DETAILS



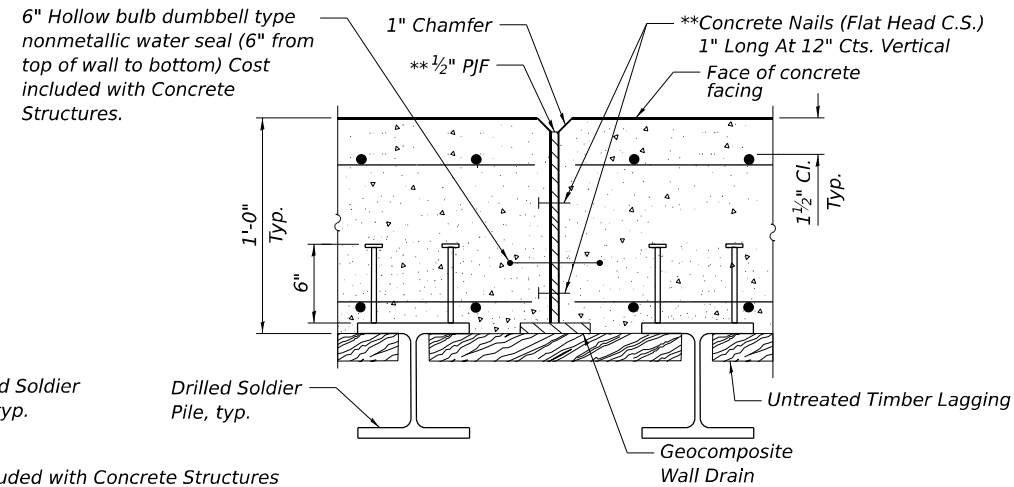
PIPE UNDERDRAIN DETAIL AT SOLDIER PILE

* Included in the cost of Pipe Underdrains for Structures, 4"

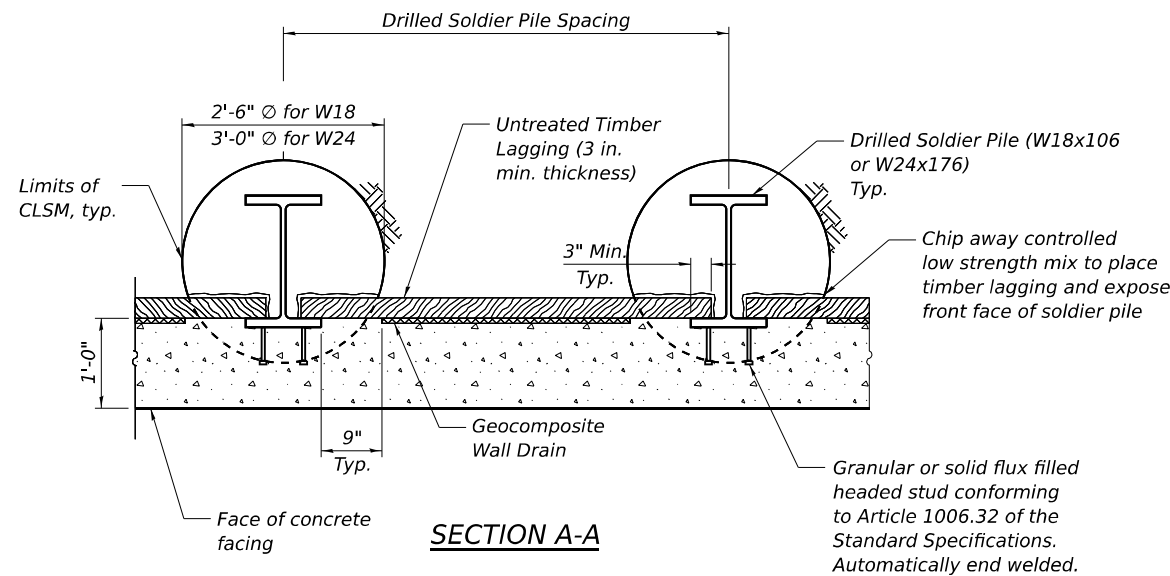


PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES

* Included in the cost of Pipe Underdrains for Structures, 4"
Pipe Underdrains shall tie into drainage structure number 6155.
The drain pipe will outlet at approximately Sta. 90+90.00



EXPANSION JOINT DETAILS



SECTION A-A

MODEL: Default
FILE NAME: 099W121-62F94-SH-03-Sec&Details.dgn



USER NAME	= jsandoval
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PLOT DATE	= 10/28/2025

DESIGNED	- JSS
CHECKED	- RRD
DRAWN	- TCK
CHECKED	- RRD

REVISED	-
REVISED	-
REVISED	-
REVISED	-

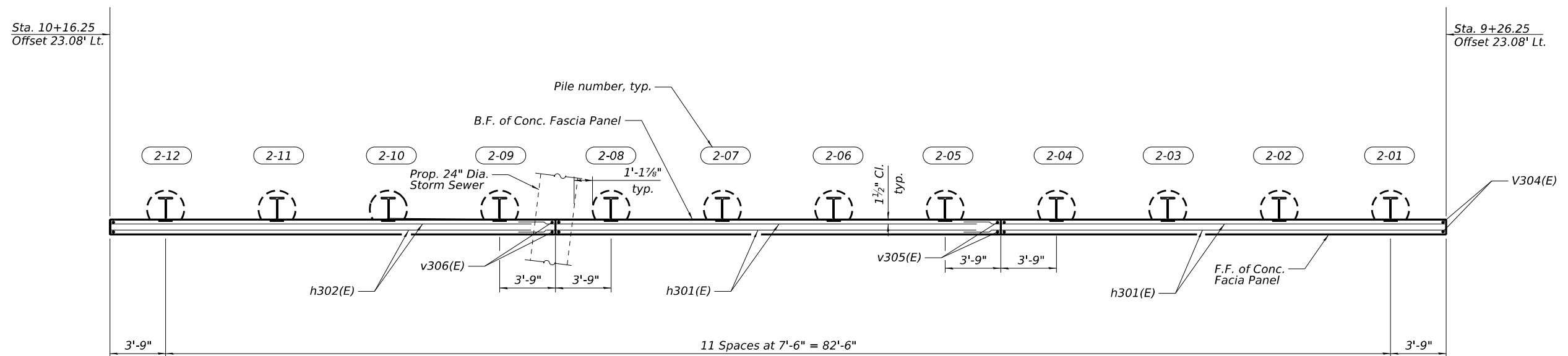
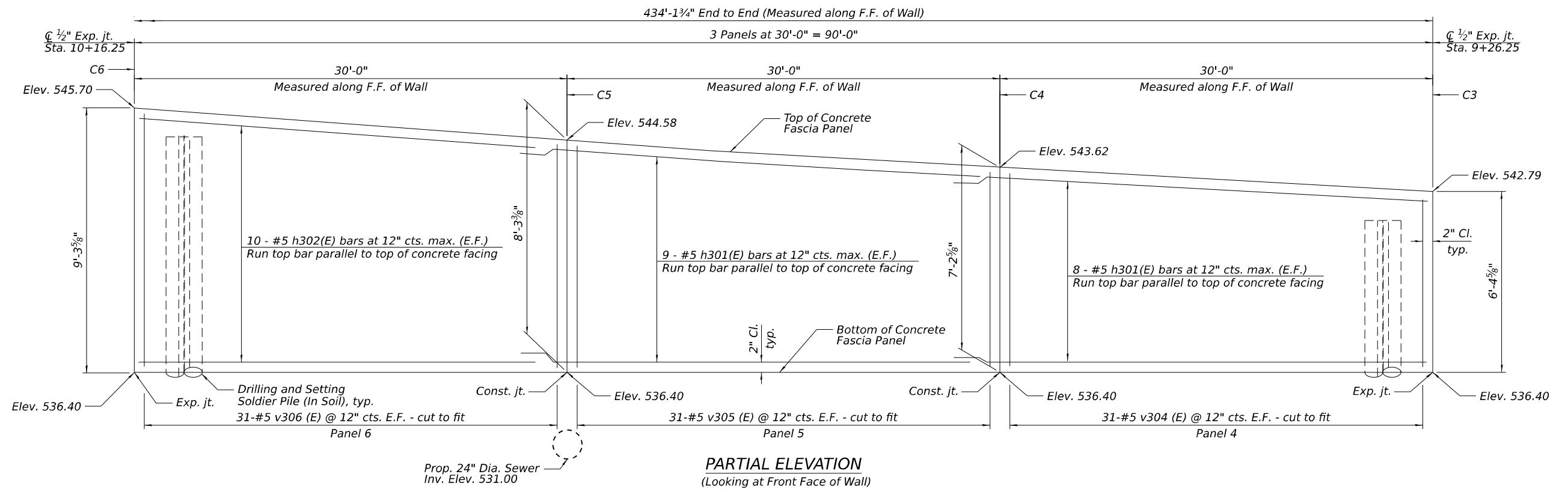
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WALL CROSS SECTION AND DETAILS
STRUCTURE NO. 099-W121**

SHEET SH-03 OF SH-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	934
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

10/28/2025 9:54:39 AM



NOTE:

1. For Notes, see Sheet SH-04.

PARTIAL PLAN

MIN. BAR LAPS

#5 bar = 3'-7"

LEGEND

E.F. - Each Face

F.F. - Front Face

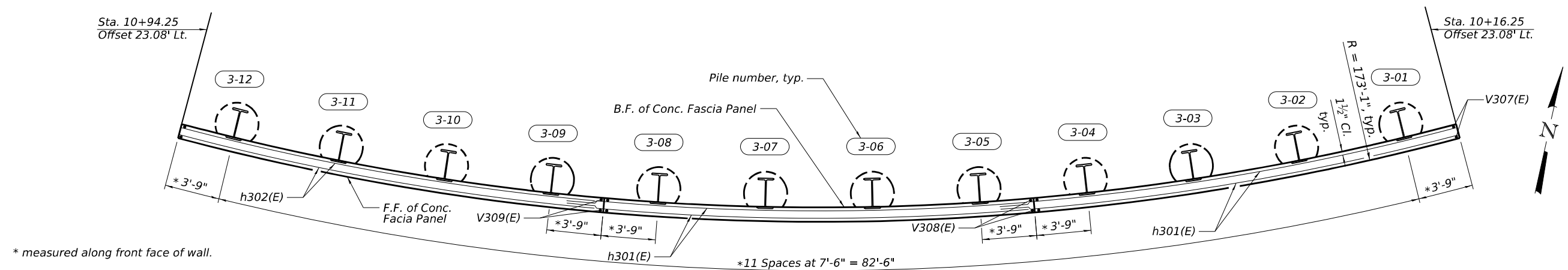
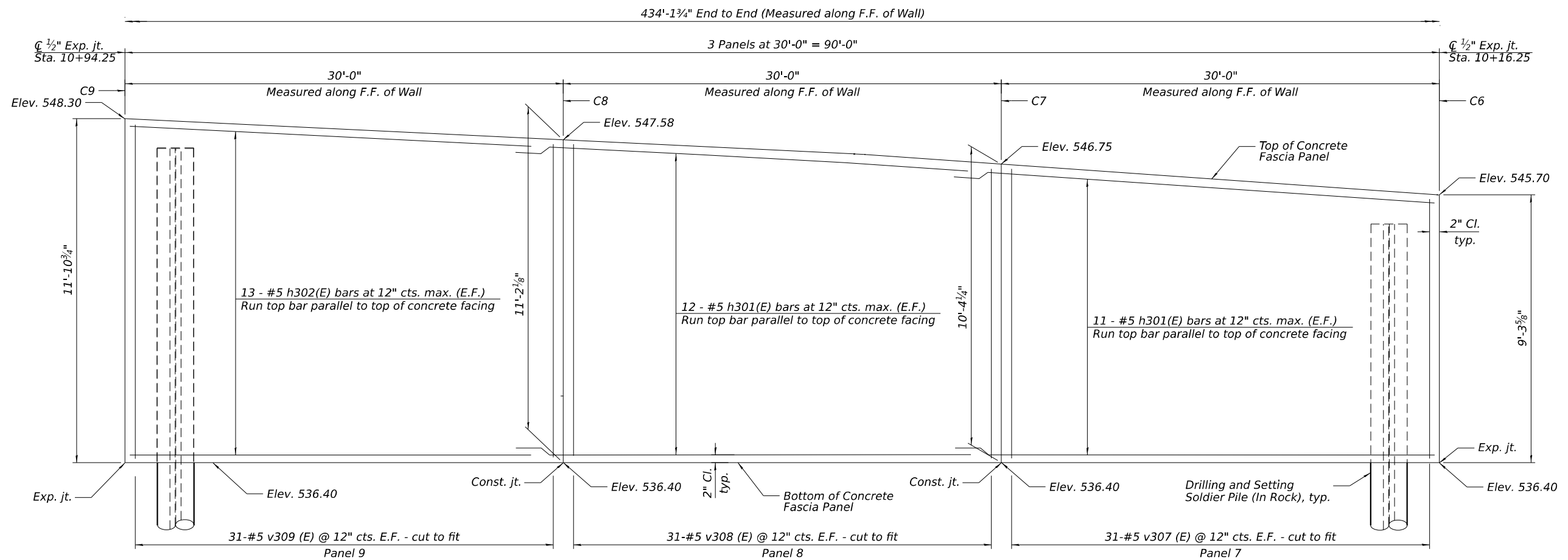
B.F. Back Face

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION UNIT 2
STRUCTURE NO. 099-W121

SHEET SH-05 OF SH-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	936
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



NOTES:

1. For Notes, see Sheet SH-04.

MIN. BAR LAPS

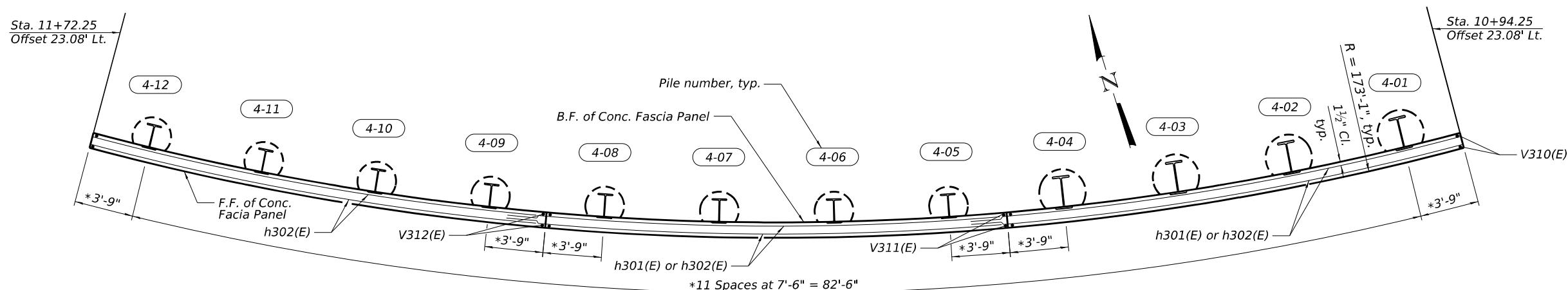
#5 bar = 3'-7"

LEGEND

E.F. - Each Face

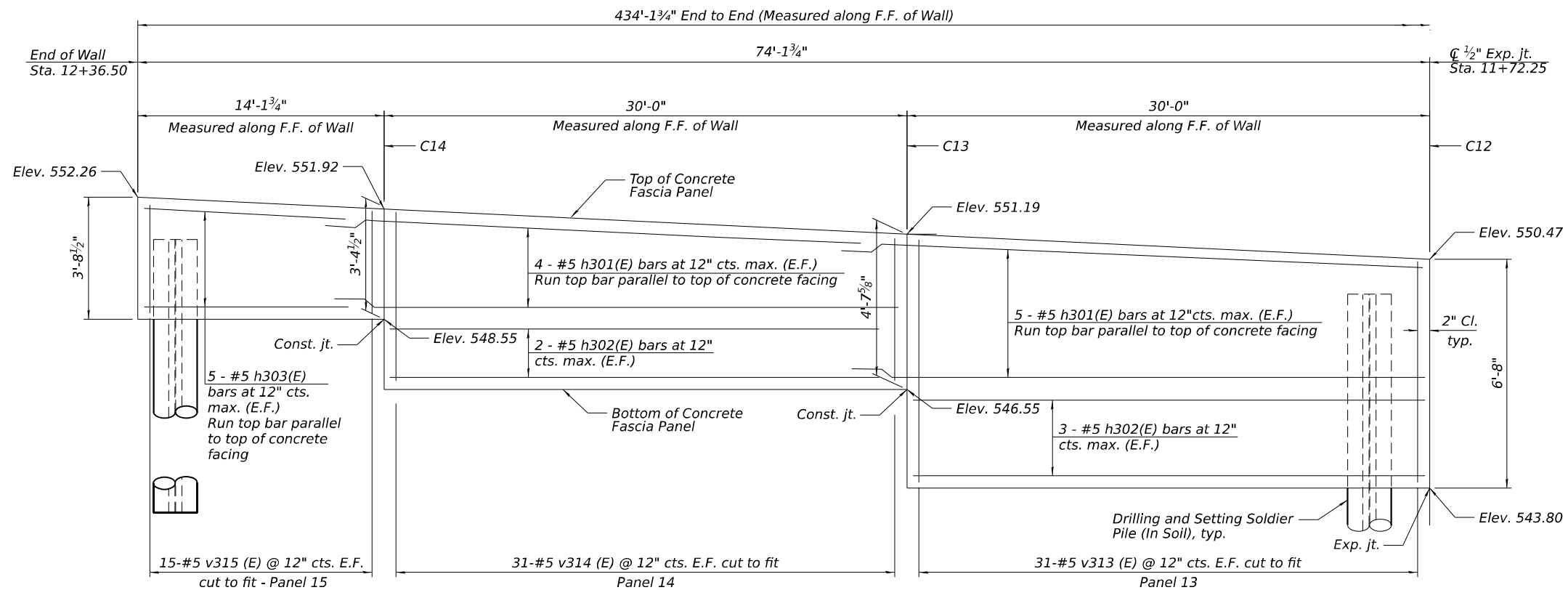
F.F. - Front Face

B.F. Back Face

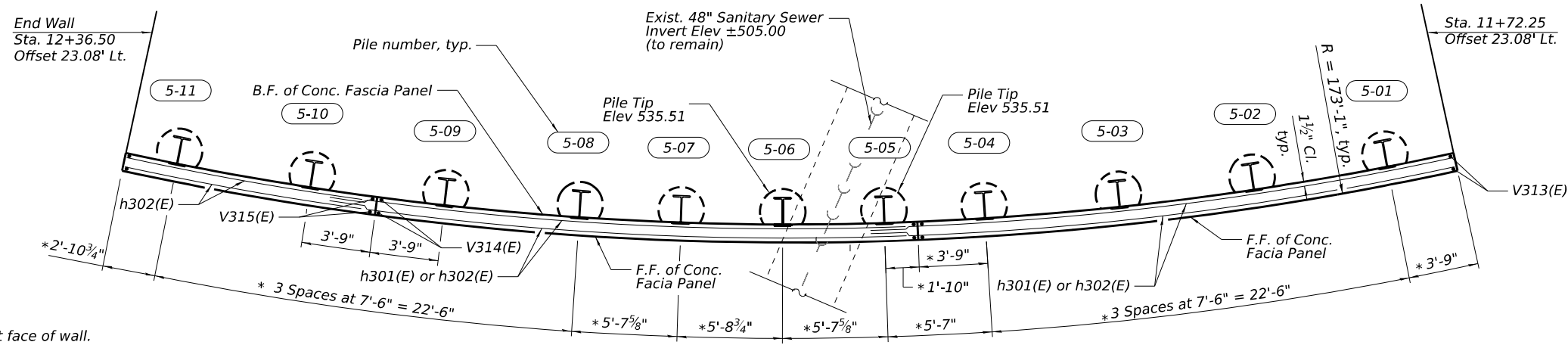


1. For notes see sheet SH-04.

E.F. - Each Face
F.F. - Front Face
B.F. Back Face



PARTIAL ELEVATION
(Looking at Front Face of Wall)



* measured along front face of wall.

NOTE:

- For notes see Sheet SH-04.

MIN. BAR LAPS

#5 bar = 3'-7"

LEGEND

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

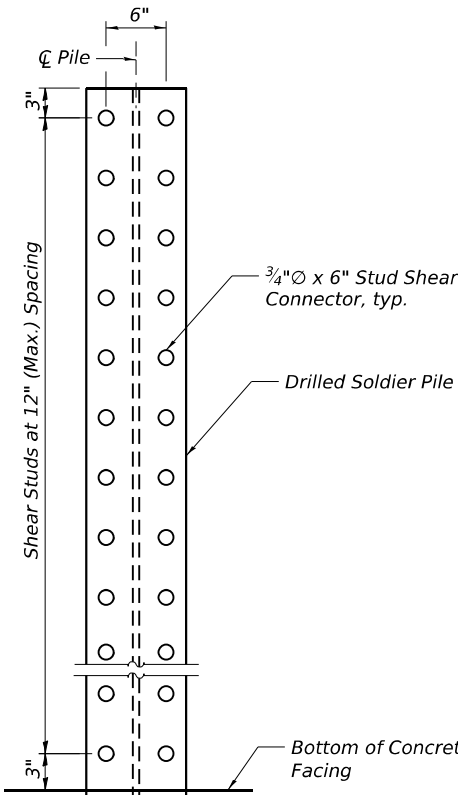
PLAN AND ELEVATION UNIT 5
STRUCTURE NO. 099-W121

SHEET SH-08 OF SH-22 SHEETS

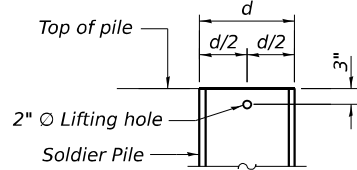
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	939
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

PILE LAYOUT

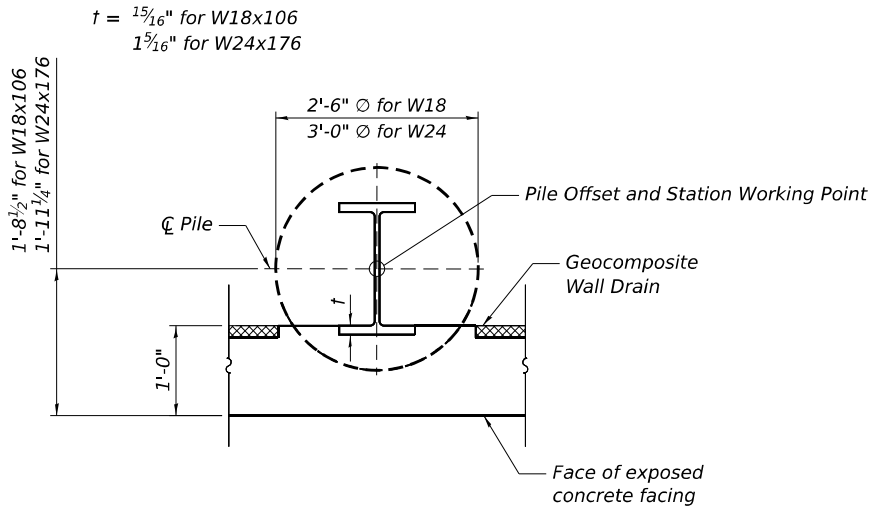
Pile	Station	Offset	Top of Pile Elev.	Top of Encasement	Section	Estimated Top of Rock Elev.	Minimum Pile Tip Elev.	Pile Length	Drilled Hole Diameter	No. Shear Studs
1-01	8+40.00	21.38' Rt	539.10	536.40	W18X106	513.44	520.50	18'-8"	2'-6"	8
1-02	8+47.50	21.38' Rt	539.26	536.40	W18X106	513.24	520.50	18'-10"	2'-6"	8
1-03	8+55.00	21.38' Rt	539.42	536.40	W18X106	513.04	520.50	19'-0"	2'-6"	8
1-04	8+62.50	21.38' Rt	539.59	536.40	W18X106	512.84	520.50	19'-2"	2'-6"	8
1-05	8+70.00	21.38' Rt	539.77	536.40	W18X106	512.63	520.50	19'-4"	2'-6"	8
1-06	8+77.50	21.38' Rt	539.96	536.40	W18X106	512.50	520.50	19'-6"	2'-6"	10
1-07	8+85.00	21.38' Rt	540.16	536.40	W18X106	512.40	520.50	19'-8"	2'-6"	10
1-08	8+92.50	21.38' Rt	540.36	536.40	W18X106	512.31	520.50	19'-11"	2'-6"	10
1-09	9+00.00	21.38' Rt	540.56	536.40	W18X106	512.21	520.50	20'-1"	2'-6"	10
1-10	9+07.50	21.38' Rt	540.77	536.40	W18X106	512.12	520.50	20'-4"	2'-6"	10
1-11	9+15.00	21.38' Rt	540.98	536.40	W18X106	512.02	520.50	20'-6"	2'-6"	12
1-12	9+22.50	21.38' Rt	541.19	536.40	W18X106	511.93	520.50	20'-9"	2'-6"	12
2-01	9+30.00	21.38' Rt	541.40	536.40	W18X106	511.83	515.70	25'-9"	2'-6"	12
2-02	9+37.50	21.38' Rt	541.60	536.40	W18X106	511.74	515.70	25'-11"	2'-6"	12
2-03	9+45.00	21.38' Rt	541.81	536.40	W18X106	511.64	515.70	26'-2"	2'-6"	12
2-04	9+52.50	21.38' Rt	542.02	536.40	W18X106	511.73	515.70	26'-4"	2'-6"	14
2-05	9+60.00	21.38' Rt	542.24	536.40	W18X106	511.91	515.70	26'-7"	2'-6"	14
2-06	9+67.50	21.38' Rt	542.48	536.40	W18X106	512.09	515.70	26'-10"	2'-6"	14
2-07	9+75.00	21.38' Rt	542.72	536.40	W18X106	512.26	515.70	27'-1"	2'-6"	14
2-08	9+82.50	21.38' Rt	542.94	536.40	W18X106	512.44	515.70	27'-3"	2'-6"	16
2-09	9+90.00	21.38' Rt	543.22	536.40	W18X106	512.62	515.70	27'-7"	2'-6"	16
2-10	9+97.50	21.38' Rt	543.50	536.40	W18X106	512.80	515.70	27'-10"	2'-6"	16
2-11	10+05.00	21.38' Rt	543.78	536.40	W18X106	512.98	515.70	28'-1"	2'-6"	16
2-12	10+12.50	21.38' Rt	544.06	536.40	W18X106	513.16	515.70	28'-5"	2'-6"	18
3-01	10+19.50	21.15' Rt	544.33	536.40	W24X176	513.32	507.32	37'-1"	3'-0"	18
3-02	10+26.00	21.15' Rt	544.60	536.40	W24X176	513.40	507.40	37'-3"	3'-0"	18
3-03	10+32.50	21.15' Rt	544.86	536.40	W24X176	513.42	507.42	37'-6"	3'-0"	18
3-04	10+39.00	21.15' Rt	545.12	536.40	W24X176	513.45	507.45	37'-9"	3'-0"	20
3-05	10+45.50	21.15' Rt	545.35	536.40	W24X176	513.48	507.48	37'-11"	3'-0"	20
3-06	10+52.00	21.15' Rt	545.56	536.40	W24X176	513.51	507.51	38'-1"	3'-0"	20
3-07	10+58.50	21.15' Rt	545.77	536.40	W24X176	513.53	507.53	38'-3"	3'-0"	20
3-08	10+65.00	21.15' Rt	545.98	536.40	W24X176	513.56	507.56	38'-5"	3'-0"	22
3-09	10+71.50	21.15' Rt	546.17	536.40	W24X176	513.59	507.59	38'-7"	3'-0"	22
3-10	10+78.00	21.15' Rt	546.35	536.40	W24X176	513.62	507.62	38'-9"	3'-0"	22
3-11	10+84.50	21.15' Rt	546.53	536.40	W24X176	513.64	507.64	38'-11"	3'-0"	22
3-12	10+91.00	21.15' Rt	546.71	536.40	W24X176	513.53	507.53	39'-3"	3'-0"	22
4-01	10+97.50	21.15' Rt	546.89	537.02	W24X176	513.17	507.17	39'-9"	3'-0"	22
4-02	11+04.00	21.15' Rt	547.07	537.02	W24X176	512.82	506.82	40'-4"	3'-0"	22
4-03	11+10.50	21.15' Rt	547.25	537.02	W24X176	512.46	506.46	40'-10"	3'-0"	22
4-04	11+17.00	21.15' Rt	547.43	537.02	W24X176	512.10	506.10	41'-4"	3'-0"	22
4-05	11+23.50	21.38' Rt	547.62	538.52	W18X106	511.75	515.42	32'-3"	2'-6"	20
4-06	11+30.00	21.38' Rt	547.79	538.52	W18X106	511.39	515.42	32'-5"	2'-6"	20
4-07	11+36.50	21.38' Rt	547.97	538.52	W18X106	511.03	515.42	32'-7"	2'-6"	20
4-08	11+43.00	21.38' Rt	548.15	538.52	W18X106	510.68	515.42	32'-9"	2'-6"	22
4-09	11+49.50	21.38' Rt	548.33	541.02	W18X106	510.32	522.72	25'-8"	2'-6"	16
4-10	11+56.00	21.38' Rt	548.52	541.02	W18X106	509.96	522.72	25'-10"	2'-6"	16
4-11	11+62.50	21.38' Rt	548.70	541.02	W18X106	509.61	522.72	26'-0"	2'-6"	18
4-12	11+69.00	21.38' Rt	548.88	541.02	W18X106	509.25	522.72	26'-2"	2'-6"	18
5-01	11+75.50	21.38' Rt	549.06	543.80	W18X106	508.89	532.70	16'-5"	2'-6"	12
5-02	11+81.99	21.38' Rt	549.24	543.80	W18X106	508.54	532.70	16'-7"	2'-6"	12
5-03	11+88.49	21.38' Rt	549.42	543.80	W18X106	508.18	532.70	16'-9"	2'-6"	14
5-04	11+94.99	21.38' Rt	549.60	543.80	W18X106	507.82	532.70	16'-11"	2'-6"	14
5-05	11+99.83	21.38' Rt	549.73	546.55	W18X106	507.56	535.45	14'-4"	2'-6"	8
5-06	12+04.72	21.38' Rt	549.87	546.55	W18X106	507.29	535.45	14'-6"	2'-6"	8
5-07	12+09.61	21.38' Rt	550.01	546.55	W18X106	507.02	535.45	14'-7"	2'-6"	8
5-08	12+14.49	21.38' Rt	550.14	546.55	W18X106	506.76	535.45	14'-9"	2'-6"	10
5-09	12+20.99	21.38' Rt	550.33	546.55	W18X106	506.40	535.45	14'-11"	2'-6"	10
5-10	12+27.49	21.38' Rt	550.51	548.55	W18X106	506.04	537.45	13'-1"	2'-6"	6
5-11	12+33.99	21.38' Rt	550.69	548.55	W18X106	505.93	537.45	13'-3"	2'-6"	6



SHEAR STUD DETAIL



LIFTING HOLE DETAIL



SOLDIER PILE WORKING POINT

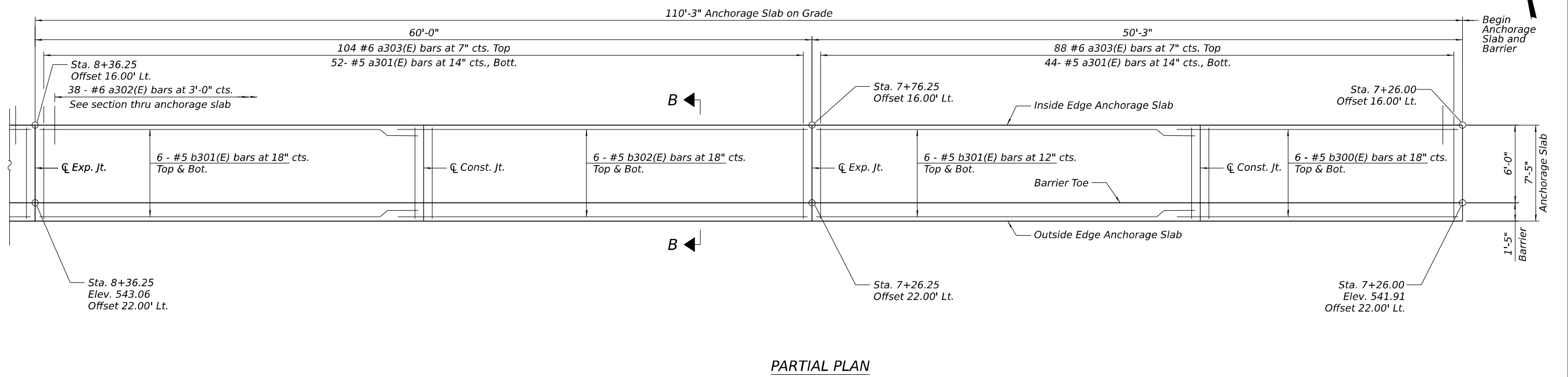
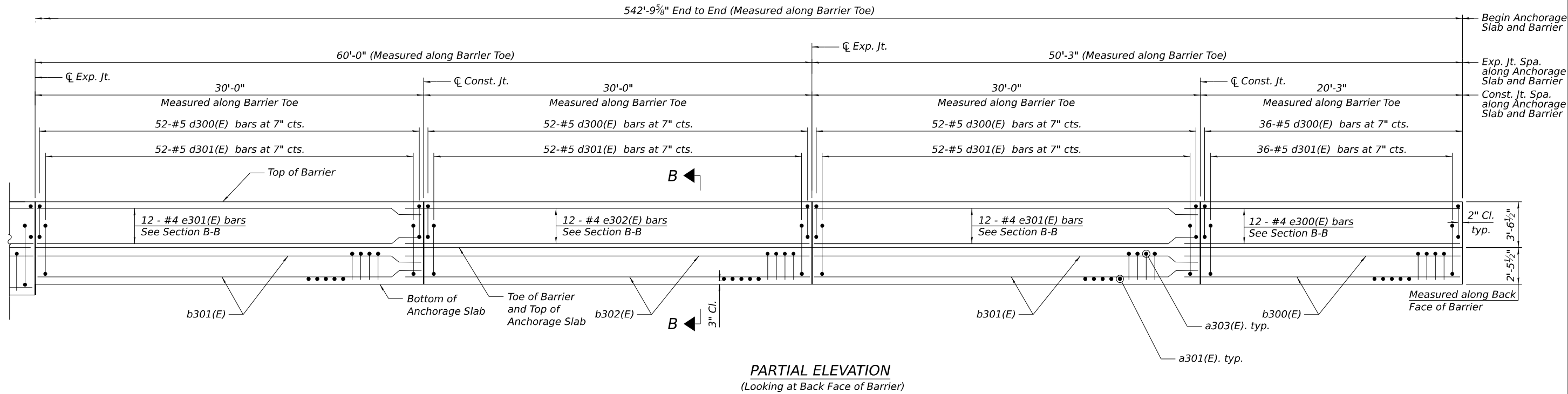
NOTE:

Offsets and Pile Stations are measured to the center of pile and along $\varnothing$ Ramp AA.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h301(E)	158	#5	33'-9"	***
h302(E)	102	#5	29'-8"	***
h303(E)	10	#5	13'-9"	***
v301(E)	62	#5	4'-5"	
v302(E)	62	#5	5'-2"	
v303(E)	62	#5	6'-0"	
v304(E)	62	#5	6'-10"	
v305(E)	62	#5	7'-11"	
v306(E)	62	#5	8'-11"	
v307(E)	62	#5	10'-0"	
v308(E)	62	#5	10'-10"	
v309(E)	62	#5	11'-6"	
v310(E)	62	#5	11'-8"	
v311(E)	62	#5	10'-10"	
v312(E)	62	#5	9'-1"	
v313(E)	62	#5	7'-0"	
v314(E)	62	#5	5'-0"	
v315(E)	30	#5	3'-4"	
Structure Excavation			Cu. Yd.	259.0
Concrete Structures			Cu. Yd.	130.4
Stud Shear Connectors			Each	878
Reinforcement Bars, Epoxy Coated			Pound	16,420
Furnishing Soldier Piles (W Section)			Foot	1,580
Drilling and Setting Soldier Piles (In Soil)			Cu. Ft.	8,853
Drilling and Setting Soldier Piles (In Rock)			Cu. Ft.	679
Untreated Timber Lagging			Sq. Ft.	2,653
Concrete Sealer			Sq. Ft.	3,419
Geocomposite Wall Drain			Sq. Yd.	226
Pipe Underdrain for Structures 4"			Foot	453

*** Bars are to be furnished straight and are to be sprung and tied at the required radius in the field.

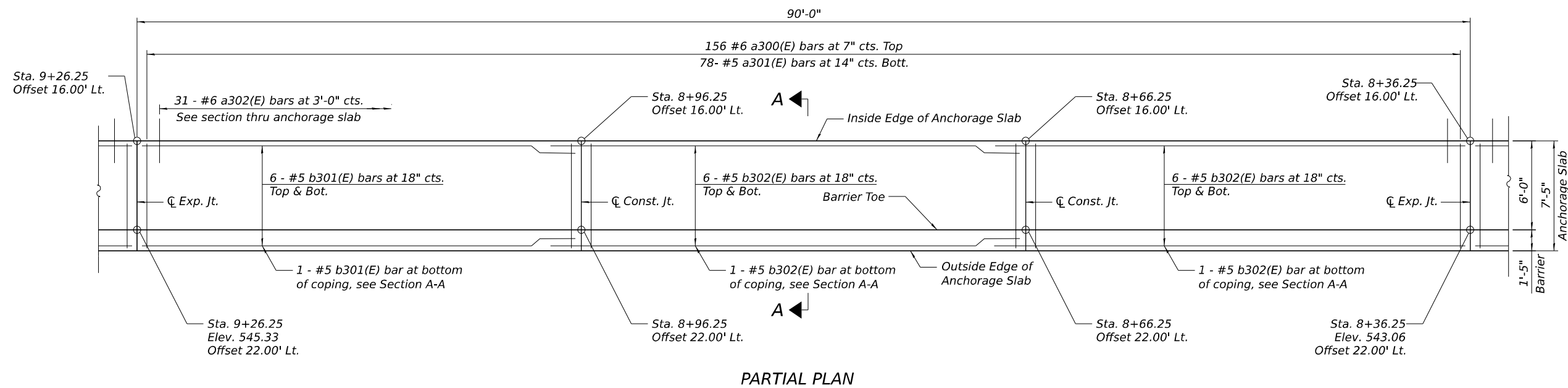
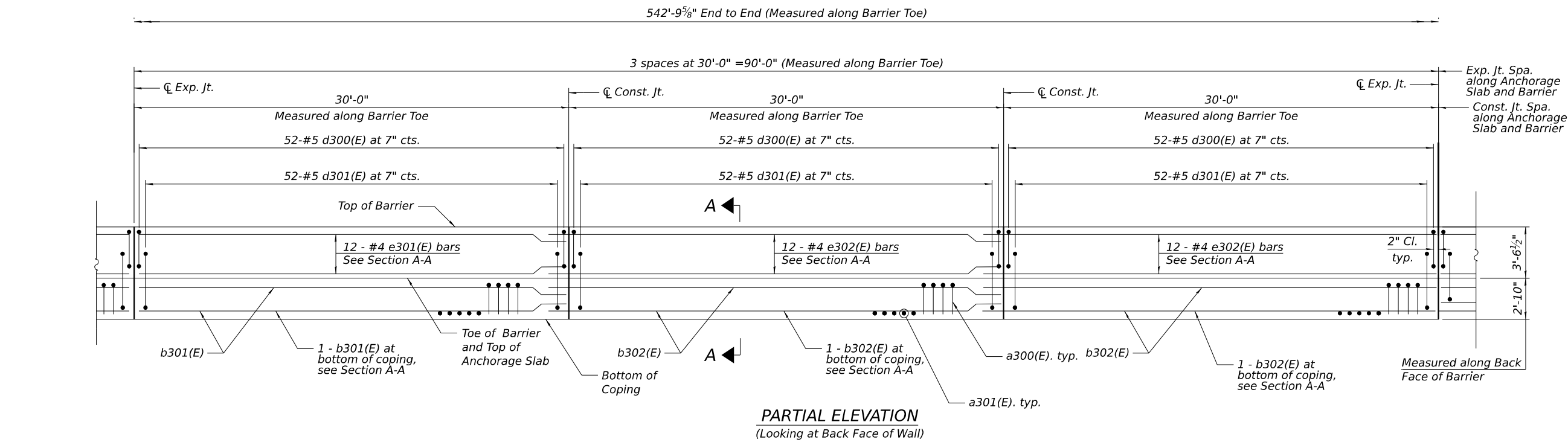


- NOTES:**
1. For Sections A-A and B-B, see Sheet SH-16.
 3. See Sheet SH-16 for Bill of Material.
 4. Stations and offsets are measured from the Δ of Ramp AA.

MIN. BAR LAP
#4 bar = 2'-8"
#5 bar = 3'-6"

MODEL: Default
FILE NAME: 099W121-62F94-SH-10-A-Plan-Elev1.dgn

1111 BURLINGTON AVE., SUITE 111 - LISLE, IL 60532 (630) 641-9900 10/28/2025 9:56:15 AM	USER NAME = jsandoval			DESIGNED - JSS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ANCHORAGE SLAB PLAN AND ELEVATION SLAB ON GRADE STRUCTURE NO. 099-W121			F.A.I. RTE. 80	SECTION 2017-057F	COUNTY WILL	TOTAL SHEETS 1342	SHEET NO. 941
	PLOT SCALE = 0:0.1667 '"/in.			CHECKED - RRD	REVISED -		SHEET SH-10 OF SH-22 SHEETS			CONTRACT NO. 62F94				
	PLOT DATE = 10/28/2025			DRAWN - TCK	REVISED -					ILLINOIS FED. AID PROJECT				
				CHECKED - RRD	REVISED -									



NOTE

1. For notes and Minimum bar lap, see Sheet SH-10.
2. For reinforcement cover requirements, see Sheet SH-16.

MODEL: Default
FILE NAME: 099W121-62F94-SH-11-A-Plan-Elev2.dgn



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PLOT DATE	= 10/28/2025

DESIGNED -	JSS
CHECKED -	RRD
DRAWN -	TCK
CHECKED -	RRD

REVISED -	
REVISED -	
REVISED -	
REVISED -	

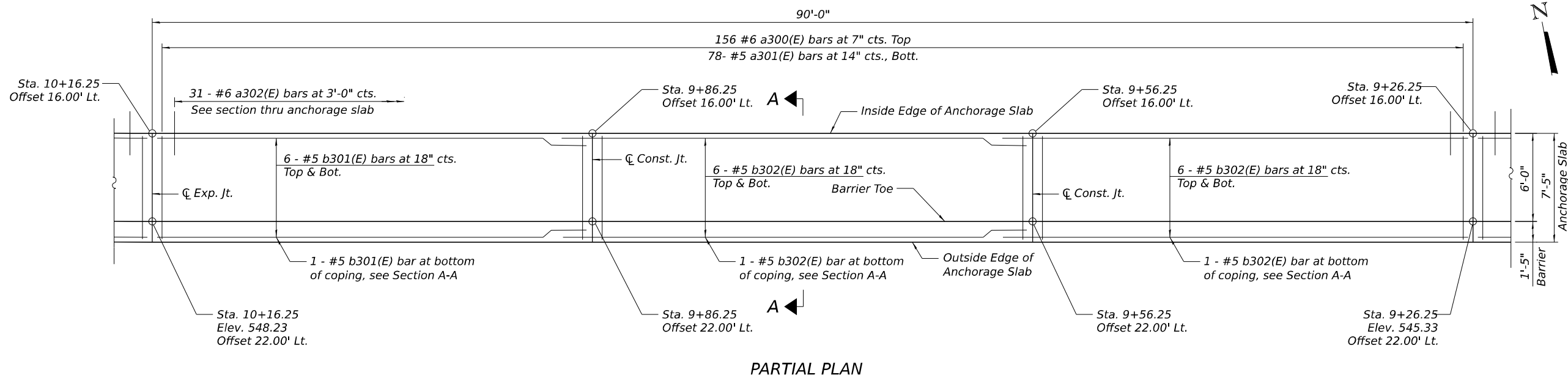
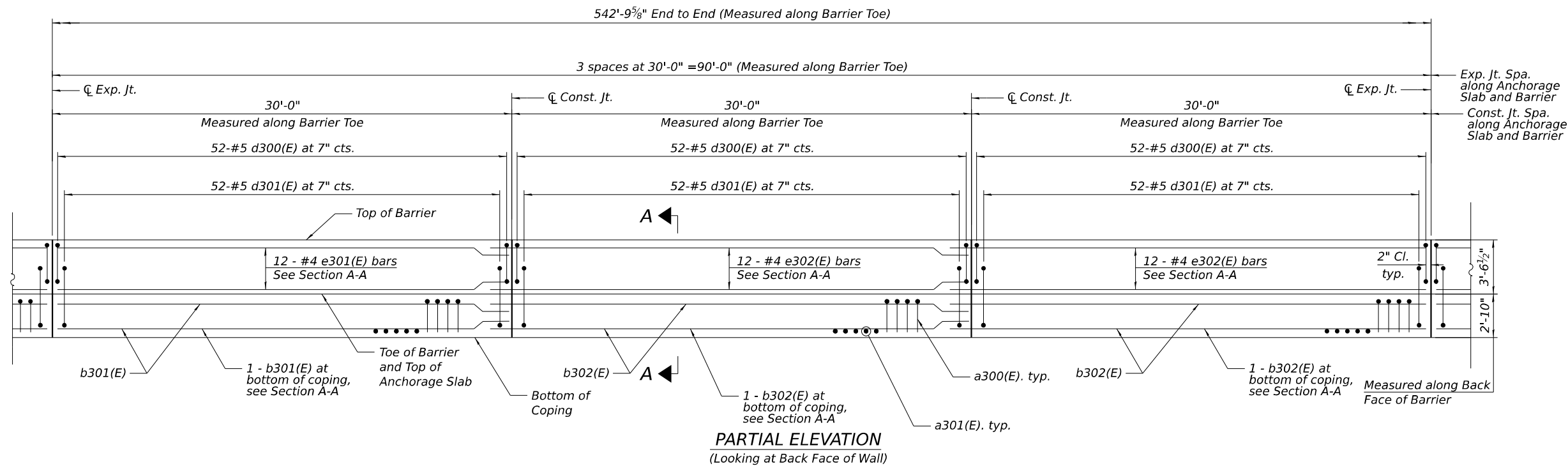
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION UNIT 1
STRUCTURE NO. 099-W121**

SHEET SH-11 OF SH-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	942
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

10/28/2025 9:56:31 AM



NOTE

- For notes and minimum bar lap, see Sheet SH-10.
- For reinforcement cover requirements, see Sheet SH-16.

MODEL: Default
FILE NAME: 099W121-62F94-SH-12-A-Plan-Elev3.dgn



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CHECKED - RRD
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DRAWN - TCK
PLOT DATE = 10/28/2025

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CHECKED - RRD
DRAWN - TCK
CHECKED - RRD

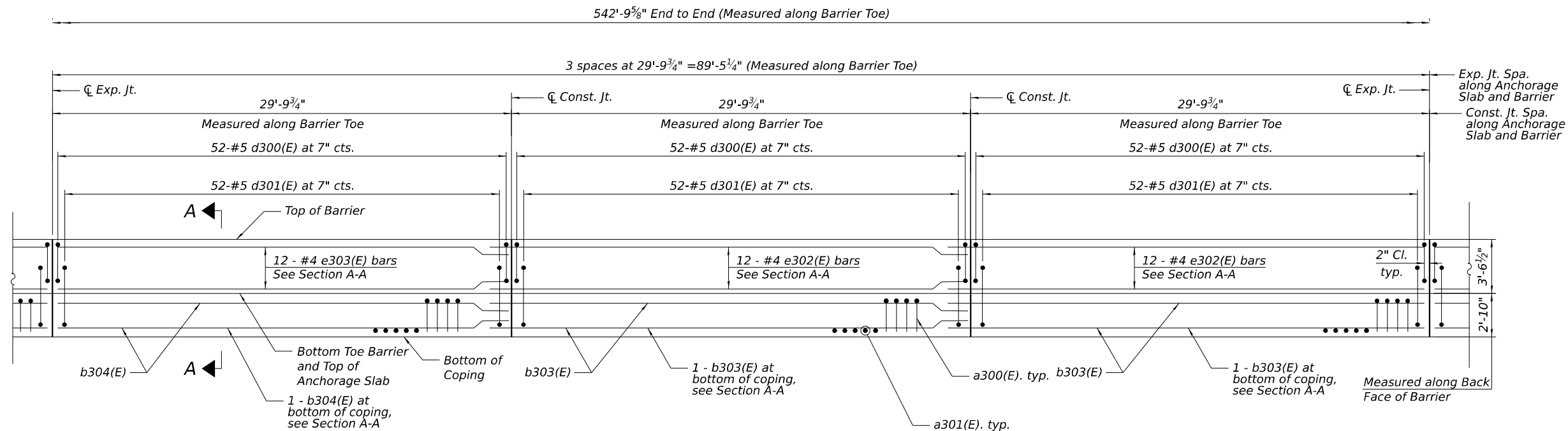
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

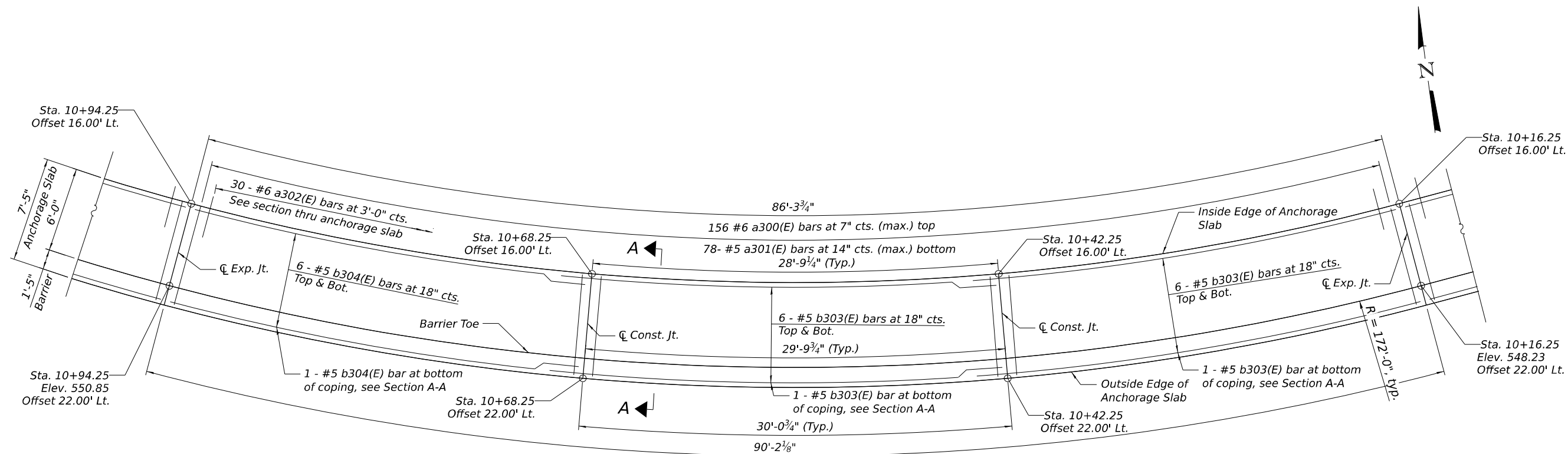
ANCHORAGE SLAB PLAN AND ELEVATION UNIT 2
STRUCTURE NO. 099-W121

SHEET SH-12 OF SH-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	943
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



PARTIAL ELEVATION
(Looking at Back Face of Wall)



NOTE

1. For notes and minimum bar lap, see Sheet SH-10.
2. For reinforcement cover requirements, see Sheet SH-16.

MODEL: Default
FILE NAME: 099W121-62F94-SH-13-A-Plan-Elev4.dgn



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DESIGNED - JSS
CHECKED - RRD
PLOT SCALE = 0:0.1667" / in.
PLOT DATE = 10/28/2025

DESIGNED - JSS
CHECKED - RRD
DRAWN - TCK
CHECKED - RRD

REVISED -
REVISED -
REVISED -
REVISED -

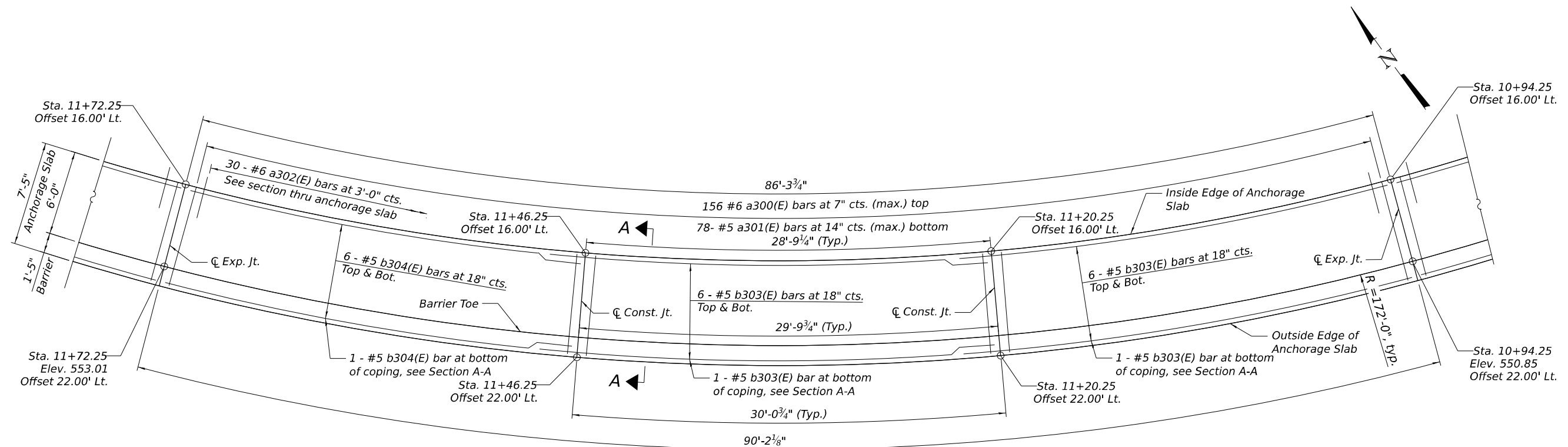
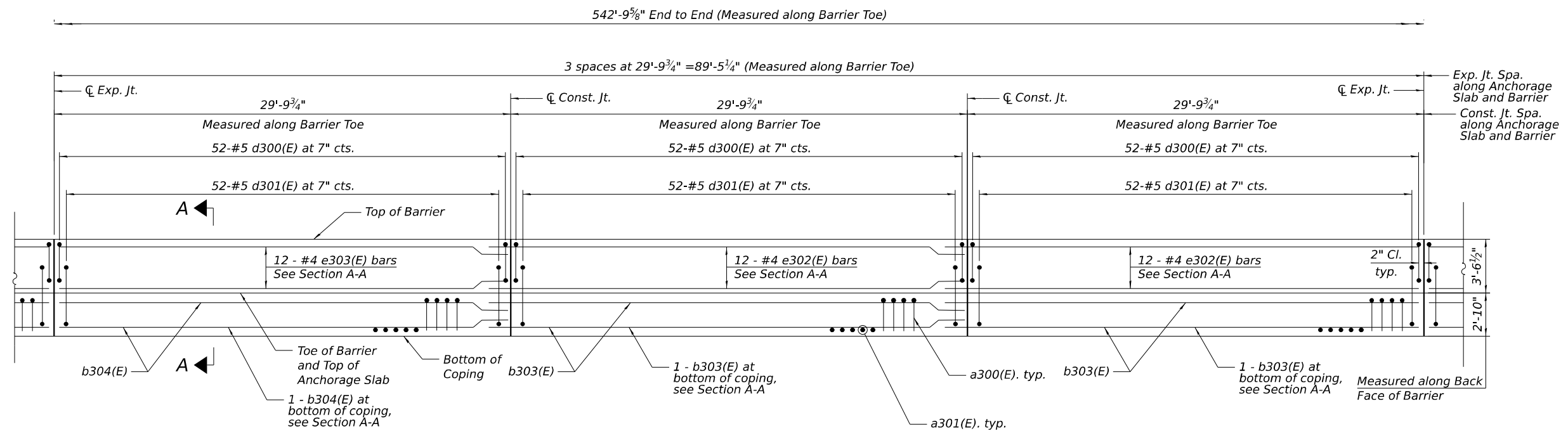
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION UNIT 3
STRUCTURE NO. 099-W121**

SHEET SH-13 OF SH-22 SHEETS

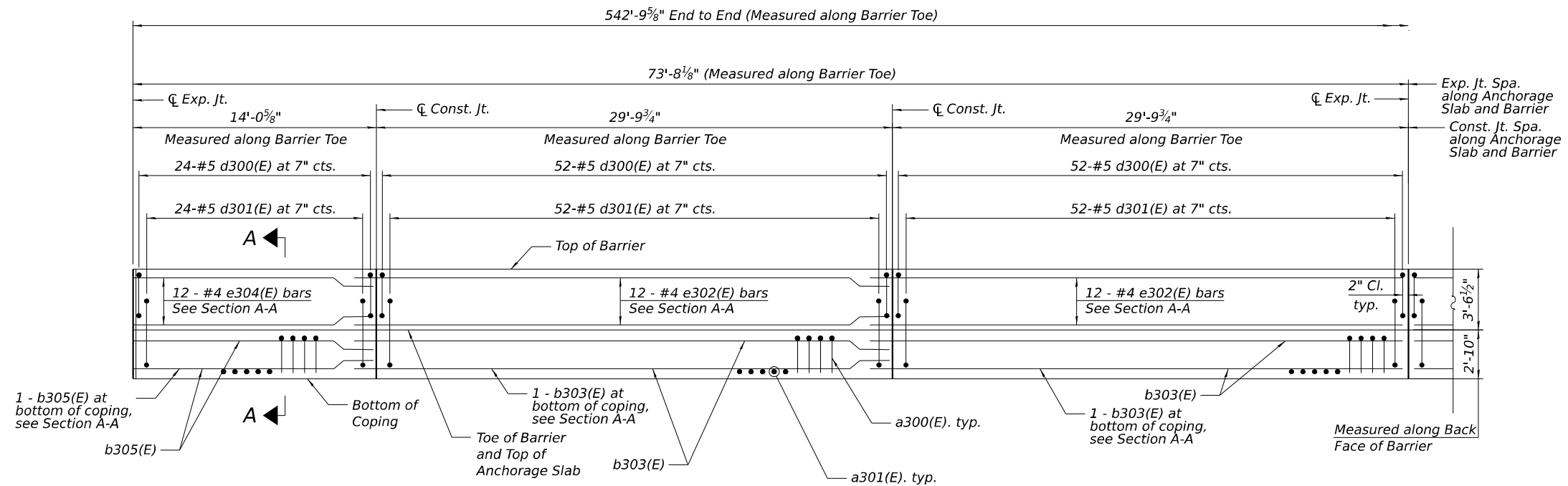
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CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

10/28/2025 9:56:55 AM

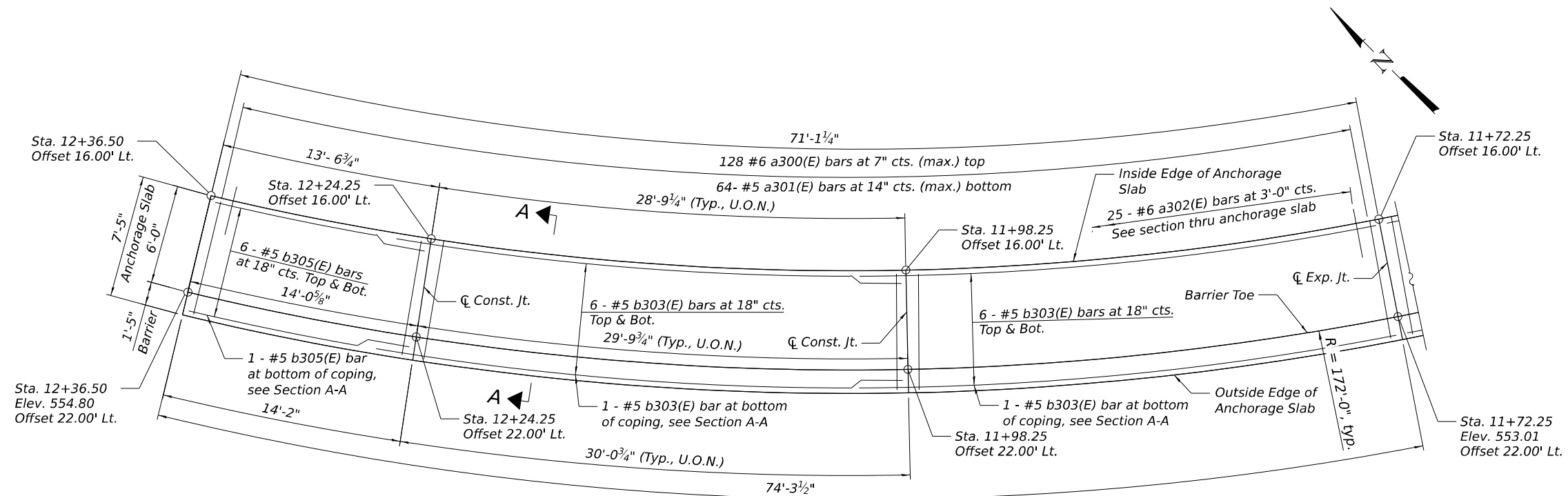


NOTE

1. For notes and minimum bar lap, see Sheet SH-10.
2. For reinforcement cover requirements, see Sheet SH-16.



PARTIAL ELEVATION
(Looking at Back Face of Wall)



PARTIAL PLAN

NOTE

1. For notes and Minimum bar lap, see Sheet SH-10.
2. For reinforcement cover requirements, see Sheet SH-16.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

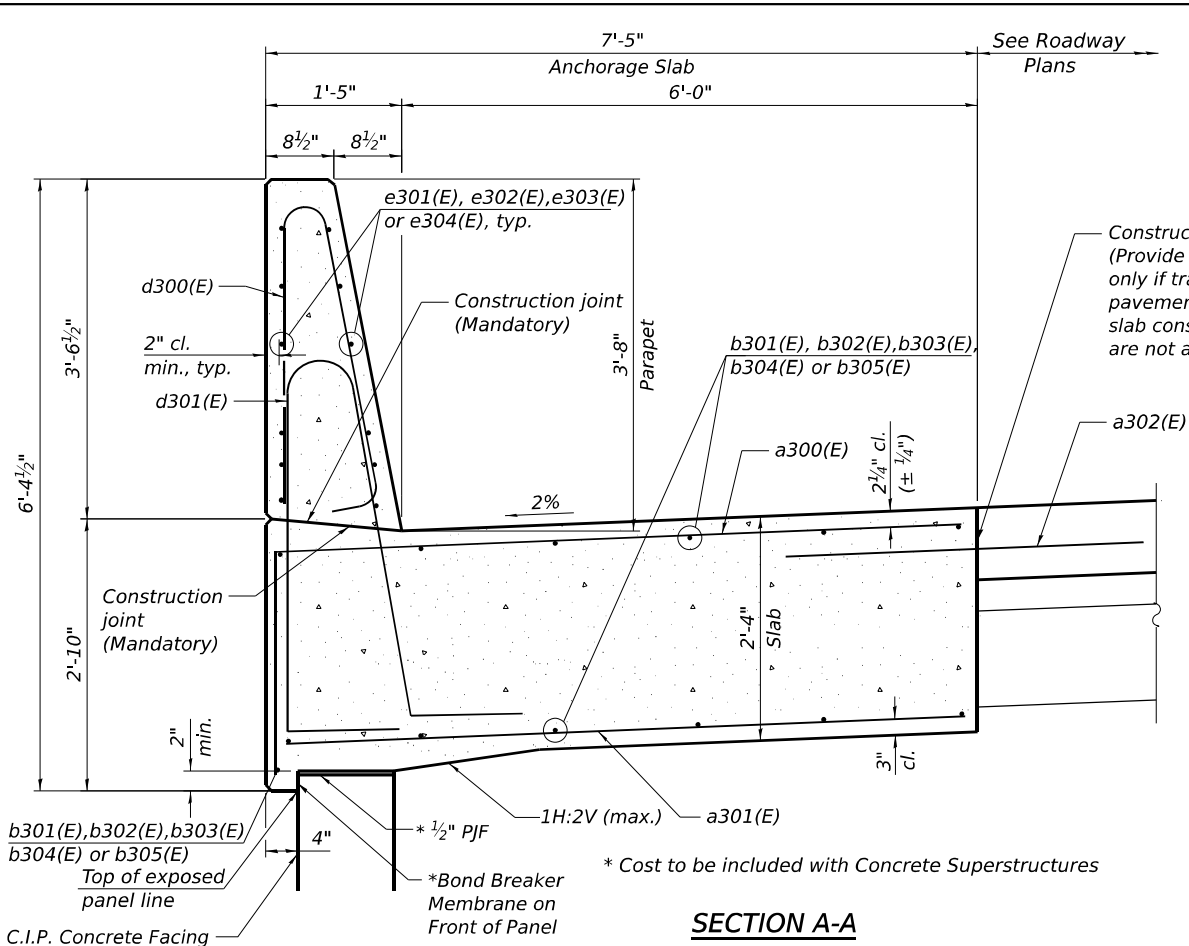
ANCHORAGE SLAB PLAN AND ELEVATION UNIT 5
STRUCTURE NO. 099-W121

SHEET SH-15 OF SH-22 SHEETS

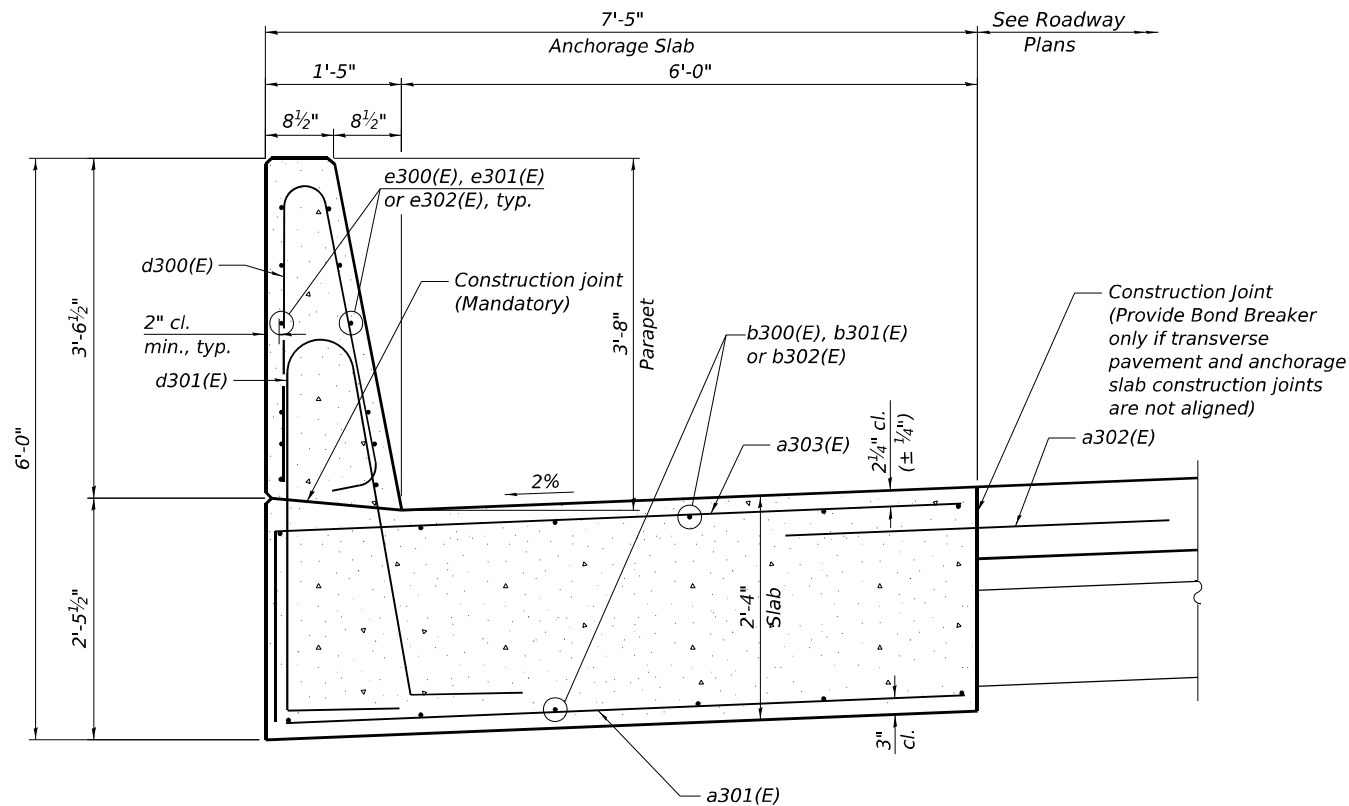
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	946
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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	CHECKED - RRD	REVISED -
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PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

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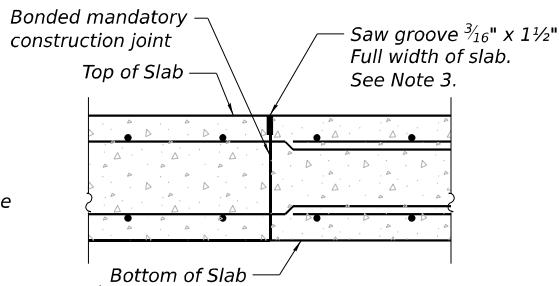


SECTION A-A

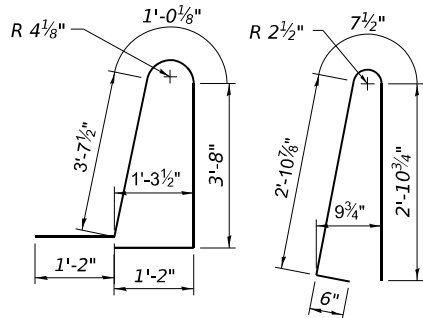
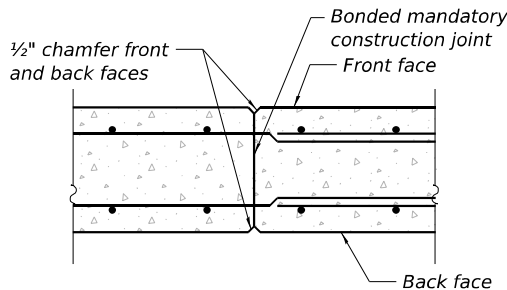


SECTION B-B

TRANSVERSE CONSTRUCTION JT. IN SLAB - SECTION



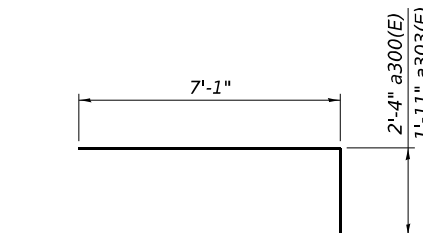
TRANSVERSE CONSTRUCTION JT. IN BARRIER - PLAN



BAR d301(E)

BAR d300(E)

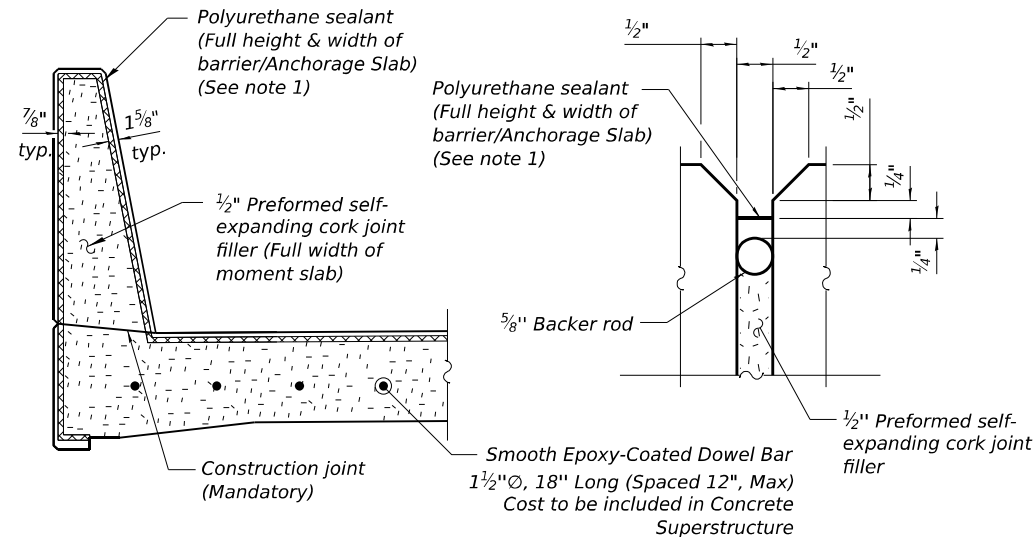
BARS a300(E) and a303(E)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a300(E)	752	#6	9'-5"	
a301(E)	472	#5	7'-1"	
a302(E)	185	#6	4'-0"	
a303(E)	192	#6	9'-0"	
b300(E)	12	#5	23'-11"	
b301(E)	50	#5	29'-8"	
b302(E)	64	#5	33'-8"	
b303(E)	78	#5	34'-0"	***
b304(E)	26	#5	28'-5"	***
b305(E)	13	#5	13'-2"	***
d300(E)	944	#5	6'-11"	
d301(E)	944	#5	10'-8"	
e300(E)	12	#4	23'-1"	***
e301(E)	48	#4	29'-8"	***
e302(E)	132	#4	32'-10"	***
e303(E)	24	#4	29'-5"	***
e304(E)	12	#4	13'-5"	***
Concrete Superstructure		Cu Yd	430.0	
Protective Coat		Sq Yd	630	
Concrete Sealer		Sq Ft	2,913	
Reinforcement Bars, Epoxy Coated		Pound	47,570	

*** Bars are to be provided straight and are to be sprung and tied at the required radius in the field.



EXPANSION JOINT DETAILS

See Note 2

NOTES:

- The Polyurethane Sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.
- Cost of expansion joints shall be included in Concrete Superstructure.
- The saw groove shall use a hot poured joint sealer per Article 1050.02 of the standard Specification, cost included in Concrete Superstructure.
- #6 a302(E) 4'-0" long dowel bars shall be placed at mid-depth of adjacent pavement at a maximum of 3'-0" plan spacing. If dowel bar aligns within 1'-6" of a pavement joint, the dowel bar shall be repositioned such that it is placed at a minimum of 1'-6" from either side of the pavement joint.



USER NAME = jsandoval
DESIGNED - JSS
CHECKED - RRD
PLOT SCALE = 0:0.1667' = 1" / 16.67'
PLOT DATE = 10/28/2025

DESIGNED - JSS
CHECKED - RRD
DRAWN - TCK
CHECKED - RRD
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB DETAILS AND BILL OF MATERIAL
STRUCTURE NO. 099-W121

SHEET SH-16 OF SH-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	947
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

Page 1 of 2

Date 6/13/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 8 - Ramp AA	LOGGED BY	KA
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SECTION I-80 over Des Plaines River **LOCATION** , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG DRILLING METHOD	Latitude	Longitude	HAMMER TYPE	Auto
			Diedrich	D-50		
			HSA		HAMMER EFF (%)	98

STRUCT. NO. _____	D	B	U	M	Surface Water Elev. _____ N/A ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. _____ N/A ft	E	L	C	O
	P	O	S	I		P	O	S	I
	T	W	Qu	S		T	W	Qu	S
BORING NO. _____ RWB-66	H	S		T	Groundwater Elev.:	H	S		T
Station _____ 7+92.3564					First Encounter _____ Dry ft				
Offset _____ 25.25ft LT					Upon Completion _____ N/A ft				
Ground Surface Elev. _____ 546.72 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. _____ N/A ft	(ft)	(/6")	(tsf)	(%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 2 of 2Date 6/13/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 8 - Ramp AA	LOGGED BY	KA
--------------	------	--------------------	--------------------------------	------------------	----

SECTION I-80 over Des Plaines River **LOCATION** , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG DRILLING METHOD	Latitude	Longitude	HAMMER TYPE	Auto
			Diedrich D-50			
			HSA		HAMMER EFF (%)	98

STRUCT. NO. _____ Station _____	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)	Surface Water Elev. _____ N/A ft
					Stream Bed Elev. _____ N/A ft
BORING NO. _____ RWB-66					Groundwater Elev.: _____
Station _____ 7+92.3564					First Encounter _____ Dry ft
Offset _____ 25.25ft LT					Upon Completion _____ N/A ft
Ground Surface Elev. _____ 546.72 ft					After _____ Hrs. _____ N/A ft

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 6/14/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 8 - Ramp AA LOGGED BY KA

SECTION I-80 over Des Plaines River LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG Latitude Longitude
Diedrich D-50
DRILLING METHOD HSA HAMMER TYPE Auto
HAMMER EFF (%) 98

STRUCT. NO.	D E P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev.	N/A	ft	D E P T H	B L O W S	U C S Qu	M O I S T T
Station					Stream Bed Elev.	N/A	ft				
BORING NO. RWB-67					Groundwater Elev.:						
Station 8+72.7860					First Encounter	Dry	ft				
Offset 15.70ft LT					Upon Completion	N/A	ft				
Ground Surface Elev. 546.06	ft	(ft)	(/6")	(tsf)	After	Hrs.	N/A	ft	(ft)	(/6")	(tsf)
				(%)							(%)
Brown and Gray, Moist FILL: SILTY CLAY, trace gravel		3			Medium Dense to Dense Light Brown, Moist SAND, with gravel (SPG) (continued) Cobbles at 21 feet				33		5
543.56		3	2.0	20					13		
		7	P						13		
Very Stiff Brown, Moist SILTY CLAY, trace gravel (CL/ML)		2			Cobbles at 23.5 feet				35		
541.06		2	2.0	20					22		6
	-5	5	P						9		
Very Stiff to Hard Brown and Gray, Moist SILTY CLAY LOAM, trace sand and gravel (ML/CL)		4							13		
		7	3.0	12					12		8
		8	P						23		
		3			Cobbles at 28.5 feet				7		
		7	4.5	21					11		9
	-10	8	P						8		
535.06		6							9		
		12	1.5	13					10		7
Stiff to Very Stiff Gray, Moist SILTY CLAY LOAM, with gravel, trace sand (ML/CL) Sand seam at 12 feet		18	P						11		
		9			Auger refusal at 33.5 feet				50/2"		NR
		12		11	End of Boring						
	-15	12									
		4									
		18	3.0	17							
		22	P								
527.56		27									
		15		7							
	-20	20									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2

Date 6/14/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 8 - Ramp AA LOGGED BY KA

SECTION I-80 over Des Plaines River LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG Latitude Longitude
Diedrich D-50
DRILLING METHOD HSA HAMMER TYPE Auto
HAMMER EFF (%) 98

STRUCT. NO.	D E P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev.	N/A	ft	D E P T H	B L O W S	U C S Qu	M O I S T T
Station					Stream Bed Elev.	N/A	ft				
BORING NO. RWB-68					Groundwater Elev.:						
Station 9+47.5456					First Encounter	Dry	ft				
Offset 11.93ft LT					Upon Completion	N/A	ft				
Ground Surface Elev. 548.11	ft	(ft)	(/6")	(tsf)	After	Hrs.	N/A	ft	(ft)	(/6")	(tsf)
				(%)							(%)
Brown and Gray, Moist FILL: SILTY CLAY, trace gravel		2			527.11				6		
		3	3.0	18	Stiff				6	1.3	25
		4	P		Brown and Gray, Very Moist SILTY CLAY LOAM, trace sand and gravel (CL/ML)				10	P	
545.61		3			524.61				4		
		4	3.5	19	Medium Dense Brown, Very Moist SILT, trace gravel (ML)				6		29
	-5	6	P						8		
		3			522.11				9		
		8	2.5	19	Medium Dense to Dense Light Brown, Moist SAND, with gravel, trace cobbles (SPG)				9		11
		8	P						9		
539.61		4							10		
		8		13	Very Stiff to Hard Gray, Moist SILTY CLAY LOAM, trace sand and gravel (ML/CL) Sand seam at 9 feet				14		10
	-10	10							9		
		3							6		
		8	4.5	16					25		10
		11	P						9		
		6							9		
		10	2.0	19					7		9
	-15	15	P						6		
		7			Auger refusal at 36.5 feet						
531.61		13		10	Light Gray LIMESTONE, slightly weathered, slightly fractured						
		13									
		13			Run 1: 36.5' - 46.5' Recovery: 100% RQD: 51.2% (Fair)						
		11		9							
	-20	14									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (2 OF 6)
STRUCTURE NO. 099-W121

SHEET SH-18 OF SH-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	949
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



USER NAME = jsandoval	DESIGNED - JSS	REVISED -
CHECKED - RRD	REVISED -	
PLOT SCALE = 0.167 " / in.	DRAWN - TCK	REVISED -
PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

Page 2 of 2

Date 6/14/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 8 - Ramp AA	LOGGED BY	KA
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SECTION I-80 over Des Plaines River **LOCATION** , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG DRILLING METHOD	Latitude	Longitude	HAMMER TYPE	Auto
			Diedrich	D-50		
			HSA		HAMMER EFF (%)	98

STRUCT. NO. _____ Station _____	D E P T H	B L O W S	U C S Qu	M O I S T (%)	Surface Water Elev. _____ N/A ft
					Stream Bed Elev. _____ N/A ft
BORING NO. _____ RWB-68					Groundwater Elev.: _____
Station _____ 9+47.5456					First Encounter _____ Dry ft
Offset _____ 11.93ft LT					Upon Completion _____ N/A ft
Ground Surface Elev. _____ 548.11 ft	(ft)	((6"))	(tsf)		After _____ Hrs. _____ N/A ft

Light Gray
LIMESTONE, slightly weathered,
slightly fractured

Run 1: 36.5' - 46.5'
Recovery: 100%
RQD: 51.2% (Fair) (continued)

	501.61
End of Boring	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 1 of 1Date 6/17/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 8 - Ramp AA	LOGGED BY	DD
--------------	------	--------------------	--------------------------------	------------------	----

SECTION I-80 over Des Plaines River **LOCATION** , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG DRILLING METHOD	Latitude	Longitude	HAMMER TYPE	Auto
			CME-75	HSA		

STRUCT. NO. _____ Station _____	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ N/A ft Stream Bed Elev. _____ N/A ft	D E P T H	B L O W S	U C S	M O I S T
BORING NO. _____ RWB-69 Station _____ 10+21.8430 Offset _____ 18.45ft LT Ground Surface Elev. _____ 551.38 ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: First Encounter _____ Dry ft Upon Completion _____ N/A ft After _____ Hrs. _____ N/A ft	(ft)	(/6")	(tsf)	(%)

Brown and Gray, Moist
FILL: SILTY CLAY, trace gravel

Very Stiff to Hard
Brown, Moist
SILTY CLAY, trace gravel
(CL/ML)

Very Dense
Light Brown, Moist
SAND, with gravel (SPG)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 1 of 2

Date 6/15/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 8 - Ramp AA	LOGGED BY	KA
--------------	------	--------------------	--------------------------------	------------------	----

SECTION I-80 over Des Plaines River **LOCATION** , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG DRILLING METHOD	Latitude	Longitude	HAMMER TYPE	Auto
			Diedrich	D-50		
			HSA		HAMMER EFF (%)	98

[illegible]

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 2 of 2

Date 6/15/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 8 - Ramp AA	LOGGED BY	KA
--------------	------	--------------------	--------------------------------	------------------	----

SECTION I-80 over Des Plaines River **LOCATION** , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG DRILLING METHOD	Latitude	Longitude	HAMMER TYPE	Auto
			Diedrich D-50			
			HSA		HAMMER EFF (%)	98

STRUCT. NO. _____	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____	N/A	ft
Station _____					Stream Bed Elev. _____	N/A	ft
BORING NO. _____							
Station _____					10+88.6135		
Offset _____					32.89ft LT		
Ground Surface Elev. _____	551.16	ft	(ft)	(/6")	(tsf)	(%)	
					Groundwater Elev.:		
					First Encounter _____	Dry	ft
					Upon Completion _____	N/A	ft
					After _____	Hrs.	N/A

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



USER NAME = jsandoval	DESIGNED - JSS	REVISED -
	CHECKED - RRD	REVISED -
PLOT SCALE = 0.167 ' / in.	DRAWN - TCK	REVISED -
PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (4 OF 6)
STRUCTURE NO. 099-W121

SHEET SH-20 OF SH-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	951
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		



**Illinois Department
of Transportation**
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/16/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 8 - Ramp AA LOGGED BY KA

SECTION I-80 over Des Plaines River LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG CME-75 DRILLING METHOD HSA HAMMER TYPE Auto HAMMER EFF (%) 91

STRUCT. NO. Station BORING NO. RWB-71 Station 11+54.0529 Offset 25.79ft LT Ground Surface Elev. 551.17 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion N/A ft
After Hrs. N/A ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)		D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
				13 inches of Asphalt				
550.08	5			Brown and Gray, Moist FILL: SILTY CLAY, trace gravel	530.17	50/6"		8
	4	5.4	18					
	5	B						
				Very Dense Dark Brown, Moist SAND, with gravel, trace clay (SPG)	527.67			
547.17	2					31		
	4	3.3	19	Medium Dense Brown, Moist SAND and GRAVEL, with clay (SPG)		11		9
	3	B		Cobbles at 23.5 to 27.5 feet	-25	6		
						10		
	6	6.5	20			7		6
	8	B				11		
					522.67			
	4			Dense Light Brown and Gray, Moist to Wet SAND, trace gravel (SP)		5		
	7	4.2	19			23		19
-10	7	B			-30	28		
				Clay seam at 31.0 feet		50/3"		
540.17	3				519.17			6
	3	1.3	18	Split Spoon Refusal at 32.0 feet End of Boring				
	7	B						
	3							
	6	2.7	14					
-15	8	B			-35			
	5							
	6	5.2	19					
	11	B						
532.67								
	8							
	8	2.0	18					
-20	12	P			-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



**Illinois Department
of Transportation**
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 2

Date 6/16/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 8 - Ramp AA LOGGED BY KA

SECTION I-80 over Des Plaines River LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG CME-75 DRILLING METHOD HSA HAMMER TYPE Auto HAMMER EFF (%) 91

STRUCT. NO. Station BORING NO. RWB-72 Station 12+29.5420 Offset 22.11ft LT Ground Surface Elev. 549.43 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter 508.4 ft
Upon Completion N/A ft
After Hrs. N/A ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)		D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
				7 inches of Topsoil	548.85			
				Brown, Moist FILL: SILTY CLAY, trace gravel		3		
	4	2.5	20					
	7	B						
					545.93			
	3			Stiff to Very Stiff Brown, Moist SILTY CLAY (CL)		3		
	5	3.1	23			5		
	7	B			-5	7		
	3							
	3	1.5	22					
	4	B						
	6					6		
	7	2.3	17			7		
-10	8	P			-10	8		
538.43	3			Medium Dense Gray, Moist SILT (ML)		3		
	7		16					
	13							
					536.43			
	4			Very Stiff Brown and Gray, Moist to Very Moist SILTY CLAY, trace sand (CL/ML)		4		
	7	2.1	15			7		
-15	10	B			-15	10		
	3							
	6	2.1	16	Cobbles at 16.5 feet		6		
	11	B						
	8							
	13	2.5	15					
-20	23	P			-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (5 OF 6)
STRUCTURE NO. 099-W121

SHEET SH-21 OF SH-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	952
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



USER NAME = jsandoval	DESIGNED - JSS	REVISED -
	CHECKED - RRD	REVISED -
PLOT SCALE = 0.167 ' / in.	DRAWN - TCK	REVISED -
PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

MODEL: Default
FILE NAME: 099W121-62F94-SH-21-Boring Log 5.dgn

10/28/2025 9:59:07 AM

Page 2 of 2

Date 6/16/22

ROUTE I-80 **DESCRIPTION** Retaining Wall No. 8 - Ramp AA **LOGGED BY** KA

SECTION I-80 over Des Plaines River **LOCATION** , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG	Latitude	Longitude	HAMMER TYPE	Auto
		DRILLING METHOD	CME-75			
			HSA		HAMMER EFF (%)	91

STRUCT. NO. _____ Station _____	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ N/A ft
					Stream Bed Elev. _____ N/A ft
BORING NO. _____ RWB-72					
Station _____ 12+29.5420					
Offset _____ 22.11ft LT					
Ground Surface Elev. _____ 549.43 ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: _____
					First Encounter _____ 508.4 ft ▼
					Upon Completion _____ N/A ft
					After _____ Hrs. _____ N/A ft

Soil Description	Elevation (ft)	Depth (ft)	Notes
Loose to Very Dense Light Brown and Black, Moist SAND, with gravel, trace cobbles (SPG) (continued) Clay seam from 41 to 42.5 feet		4 8 11	11
	506.93		
Very Dense Gray, Moist GRAVEL (GP) Split Spoon Refusal at 43.5 feet	505.93	50/2"	
Light Gray LIMESTONE, slightly weathered, moderately fractured	-45		10
Run 1: 43.5' - 53.5' Recovery: 100% RQD: 61.7% (Fair)			
	-50		
	-55		
	-60		
End of Boring	495.93		
	-55		
	-60		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



USER NAME = jsandoval	DESIGNED - JSS	REVISED -
	CHECKED - RRD	REVISED -
PLOT SCALE = 0.167' / in.	DRAWN - TCK	REVISED -
PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (6 OF 6)
STRUCTURE NO. 099-W121

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	953
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		

Benchmark: Iron Rod with Cap I-80 Sta. 67+29.78, 390.65' LT
N 1,765,102.773 and E 1,052,594.602
Elev.= 546.815

Existing Structures: None.

Traffic Control: Existing entrance ramp traffic to be detoured during construction. I-80 traffic to be maintained.

Salvage: None.

Begin Ret. Wall 9A
Sta. 7+19.00
Elev. 543.34

Prop. Finished
Grade

Top of Exposed Panel Line Elev. B **
Chain Link Fence, 4' Attached
to Structure, typ.

Top of Coping
Elev. A **

Kink Point 1
Sta. 8+27.57
Elev. 546.59

Sta. 8+91.98
Elev. 548.73

Sta. 9+05.98
Elev. 548.19

Kink Point 2
Sta. 9+16.23
Elev. 547.79
Sta. 9+27.00
Elev. 547.34

End Ret. Wall 9A
Sta. 9+83.13
Elev. 535.33

Prop. Finished Grade

Sta. 7+73.75
Elev. 532.32

Sta. 8+27.57
Elev. 531.16

Sta. 8+61.42
Elev. 530.36

Sta. 8+96.38
Elev. 526.15

Sta. 9+16.23
Elev. 525.25

Sta. 9+41.22
Elev. 525.43

Fill with Porous
Granular
Embankment

* Measured along F.F. of Wall
** See note 3

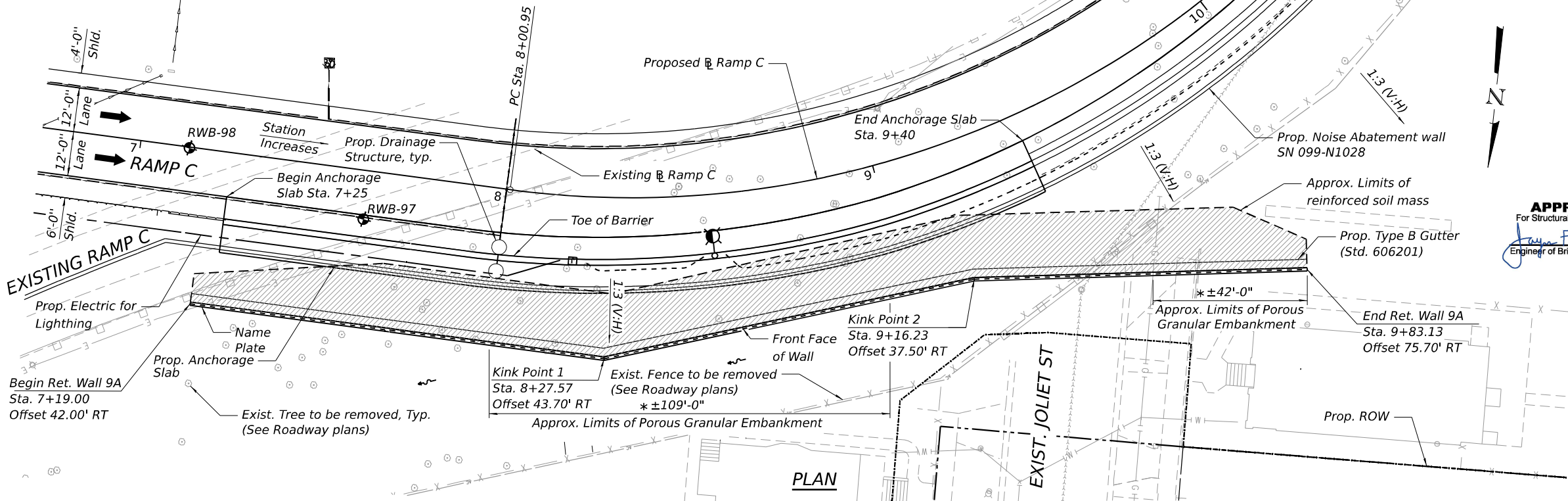
Fill with Porous
Granular
Embankment

Existing grade
at F.F. of wall
Elev. D **

Finished grade
at F.F. of wall
Elev. C **

Theoretical Top
of Leveling Pad
Elev. E **
Exist. 20" Sanitary Sewer
Elev. ±510.81 (to be abandoned)

ELEVATION
(Looking at F.F. of Wall)

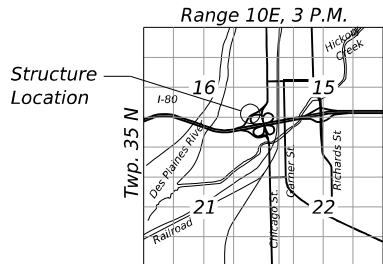


PLAN

EXIST. JOLIET ST

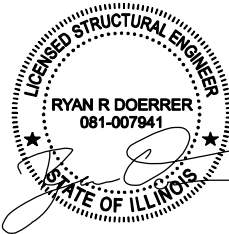
LEGEND

- Soil Boring
- Exist. Underground Electric
- Exist. Underground Gasline
- Exist. Underground Waterline
- Exist. Underground Sanitary Sewer
- Exist. ROW Access Control (To be removed)
- Exist. ROW
- Prop. Storm Sewer
- Prop. Pipe Underdrain
- Existing Tree
- F.F. Front Face
- B.F. Back Face
- Proposed Ditch
- Approx. Limits of Reinforced Soil Mass
- Exist. Fence
- Prop. Fence



LOCATION SKETCH

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures



Date: 10-31-2025
Expires: 11-30-2026

GENERAL PLAN AND ELEVATION
RETAINING WALL 9A ALONG RAMP C
F.A.I. RTE. 80 - SEC. 2017-057F
WILL COUNTY
STA. 7+19.00 TO STA. 9+83.13
STRUCTURE NO. 099-W128

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SI-01 OF SI-09 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	954
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



USER NAME	jsandoval	DESIGNED	JSS	REVISED	-
CHECKED	RRD	REVIS	-	REVISED	-
PLOT SCALE	0:0.1667" / in.	DRAWN	TCK	REVISED	-
PLOT DATE	10/28/2025	CHECKED	RRD	REVISED	-

MODEL: Default
FILE NAME: 099W128-62F94-SI-01-GPE.dgn

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GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Cast-in-place concrete and reinforcement steel required for coping shall be included in the payment for Mechanical Stabilized Earth Retaining wall.
- 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 the finished ground level.
- Protective Coat shall be applied to the exposed faces of the cast-in-place coping.
- The Contractor shall field verify locations of existing underground utilities prior to beginning work. Existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to the directions given on the Civil Plans. The Contractor shall take all necessary precautions to protect existing utilities to remain during all stages of construction. Any damage to the existing utilities to remain caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- Stations and offsets are measured along the baseline of the Chicago Street Ramp C to the front face of precast panels.
- Porous Granular Embankment shall be placed and compacted to a minimum of 95% of the maximum dry density in accordance with IDOT standard construction requirements at locations where the proposed theoretical top of leveling pad is above the existing ground line.

SUGGESTED SEQUENCE OF CONSTRUCTION

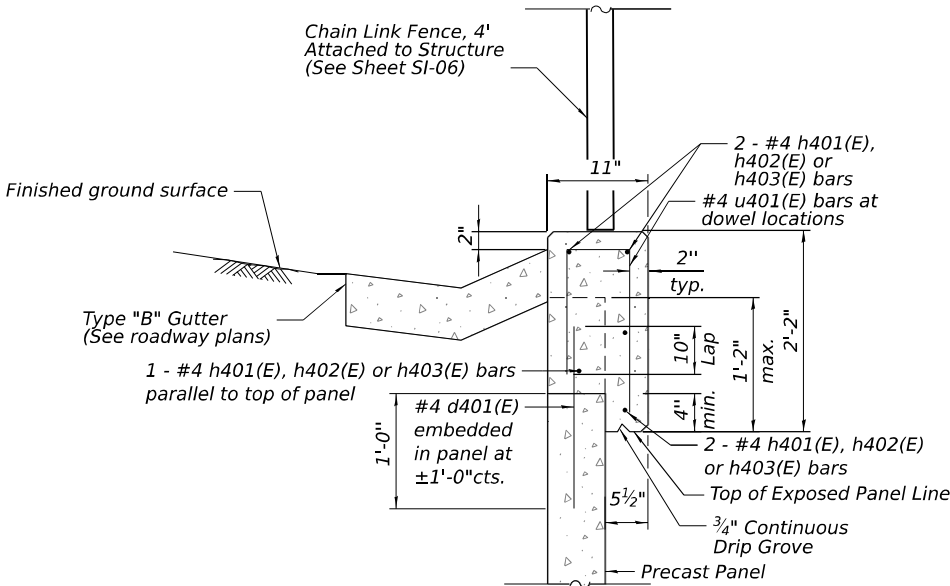
- Place Porous Granular Embankment in areas where the bottom of the proposed leveling pad is at higher elevation than the existing ground.
- Excavate existing ground where required and build MSE wall leveling pad.
- Compact Porous Granular Embankment before placing MSE wall leveling pad.
- Construct leveling pad and place MSE wall to the required elevation.
- Construct cast in place concrete coping.
- Grade remaining finish grade slope to meet proposed roadway.
- Construct Anchorage Slab.
- Construct Noise Abatement Wall on Anchorage Slab.

INDEX OF SHEETS

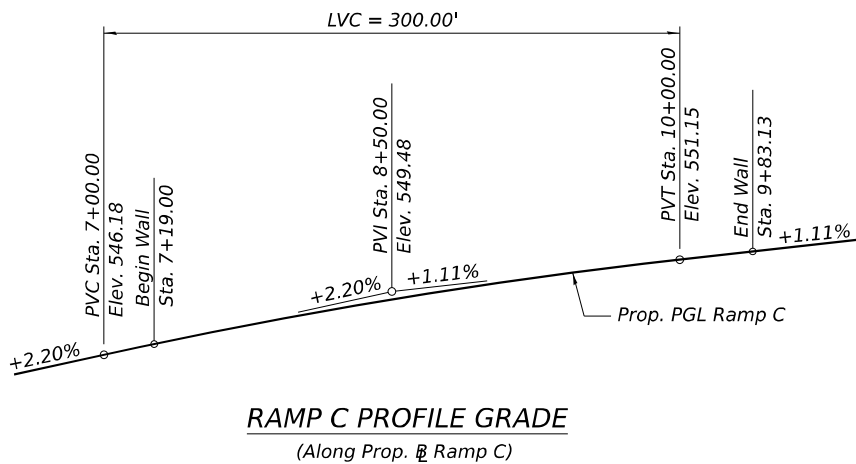
SI-01	General Plan and Elevation
SI-02	General Data
SI-03	Typical Sections
SI-04	Coping Plan and Elevation 1
SI-05	Coping Plan and Elevation 2
SI-06	Chain Link Fence Details
SI-07	Boring Logs 1 (1 of 3)
SI-08	Boring Logs 2 (2 of 3)
SI-09	Boring Logs 3 (3 of 3)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	254
Protective Coat	Sq Yd	127
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq Ft	4,806
Porous Granular Embankment	Cu Yd	141
Chain Link Fence, 4' Attached to Structure	Foot	306



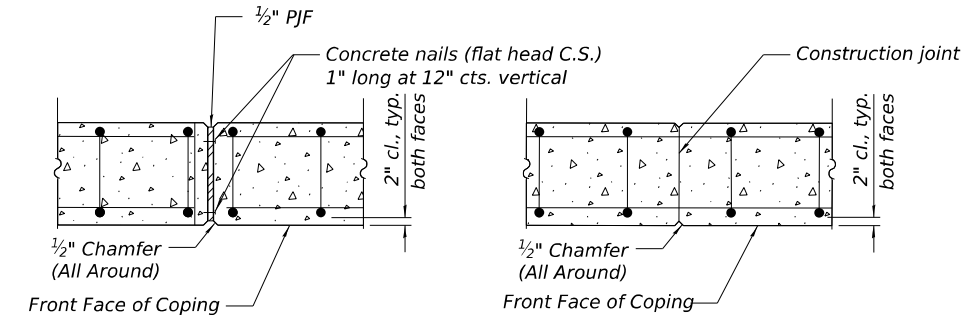
COPING DETAIL



RAMP C PROFILE GRADE
(Along Prop. Ramp C)

PR RAMP C
CURVE 1

P.I. Sta. = 9+40.44
Δ = 58°19'14" (LT)
D = 22°55'06"
R = 250.00'
T = 139.49'
L = 254.47'
E = 36.28'
e = 6.0%
P.C. Sta. = 8+00.95
P.T. Sta. = 10+55.42



Coping Expansion Joint - PLAN

Coping Construction Joint - PLAN
(Provide construction joints at 30'-0" max. and 20'-0" min.)

STA. 7+19.00 TO 9+83.13
BUILT 20-- BY
STATE OF ILLINOIS
F.A.I. Rt. 80 Sec. 2017-057F
LOADING HL-93
STR. NO. 099-W128

NAME PLATE

See Std. 515001

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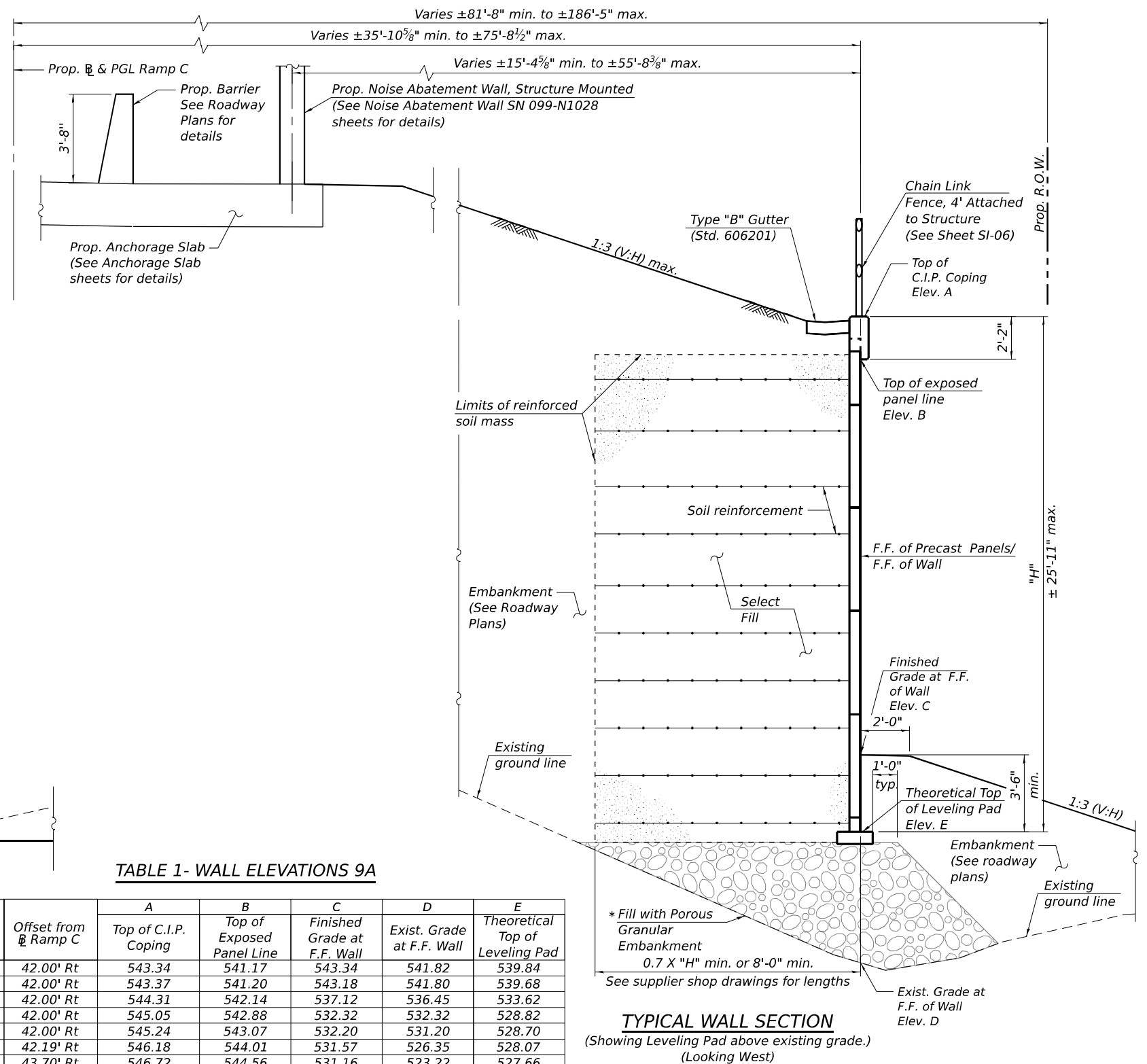
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PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 099-W128

SHEET SI-02 OF SI-09 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	955
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



TYPICAL WALL SECTION
(Showing Leveling Pad above existing grade.)
(Looking West)

Anchorage Slab Mounted Noise Abatement wall shown on Sections. Ground Mounted Noise Abatement wall not shown.

Station	Offset from Ramp C	A	B	C	D	E
		Top of C.I.P. Coping	Top of Exposed Panel Line	Finished Grade at F.F. Wall	Exist. Grade at F.F. Wall	Theoretical Top of Leveling Pad
7+19.00	42.00' Rt	543.34	541.17	543.34	541.82	539.84
7+20.00	42.00' Rt	543.37	541.20	543.18	541.80	539.68
7+50.00	42.00' Rt	544.31	542.14	537.12	536.45	533.62
7+73.75	42.00' Rt	545.05	542.88	532.32	532.32	528.82
7+80.00	42.00' Rt	545.24	543.07	532.20	531.20	528.70
8+10.00	42.19' Rt	546.18	544.01	531.57	526.35	528.07
8+27.57	43.70' Rt	546.72	544.56	531.16	523.22	527.66
8+40.00	40.54' Rt	547.11	544.94	530.86	522.20	527.36
8+61.42	36.95' Rt	547.78	545.61	530.36	521.90	526.86
8+70.00	36.12' Rt	548.05	545.88	529.32	521.95	525.82
8+91.98	35.54' Rt	548.73	546.56	525.60	522.20	522.10
9+00.00	35.89' Rt	548.41	546.24	525.72	522.30	522.22
9+05.98	36.30' Rt	548.19	546.01	525.00	522.20	521.50
9+16.23	37.50' Rt	547.79	545.60	525.25	523.00	521.75
9+27.00	41.66' Rt	547.34	545.17	525.26	524.40	521.76
9+30.00	42.94' Rt	546.70	544.53	525.29	524.55	521.79
9+41.22	47.60' Rt	544.30	542.13	525.43	524.38	521.93
9+60.00	58.86' Rt	540.28	538.11	529.65	524.25	526.15
9+83.13	75.70' Rt	535.33	533.16	535.33	525.55	531.83

* Required at all locations where top of leveling pad is above the existing ground line

MODEL: Default
FILE NAME: 099W128-62F94-SI-04-Plan-Elev1.dgn

NOTES:

1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control point station, offset, and elevations, see Sheet SI-03.
3. For Typical Section, see Sheet SI-03.
4. For coping detail, see Sheet SI-02.
5. The cost of the concrete and the reinforcement steel required for the coping shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.
6. For coping construction joint spacing requirements see Coping Construction Joint - Plan Detail, see Sheet SI-02.



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PLOT DATE	= 10/28/2025

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CHECKED	-	RRD
DRAWN	-	TCK
CHECKED	-	RRD

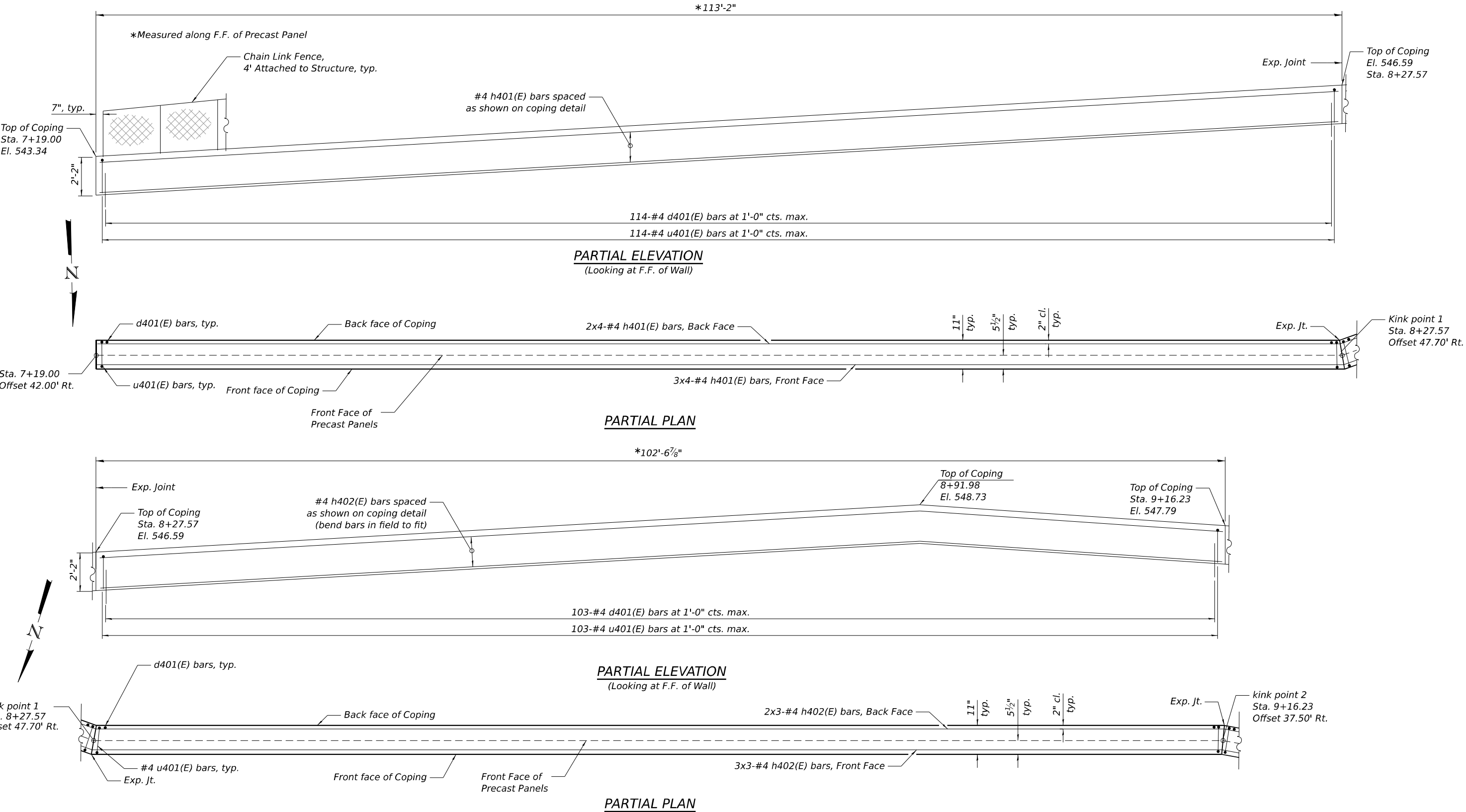
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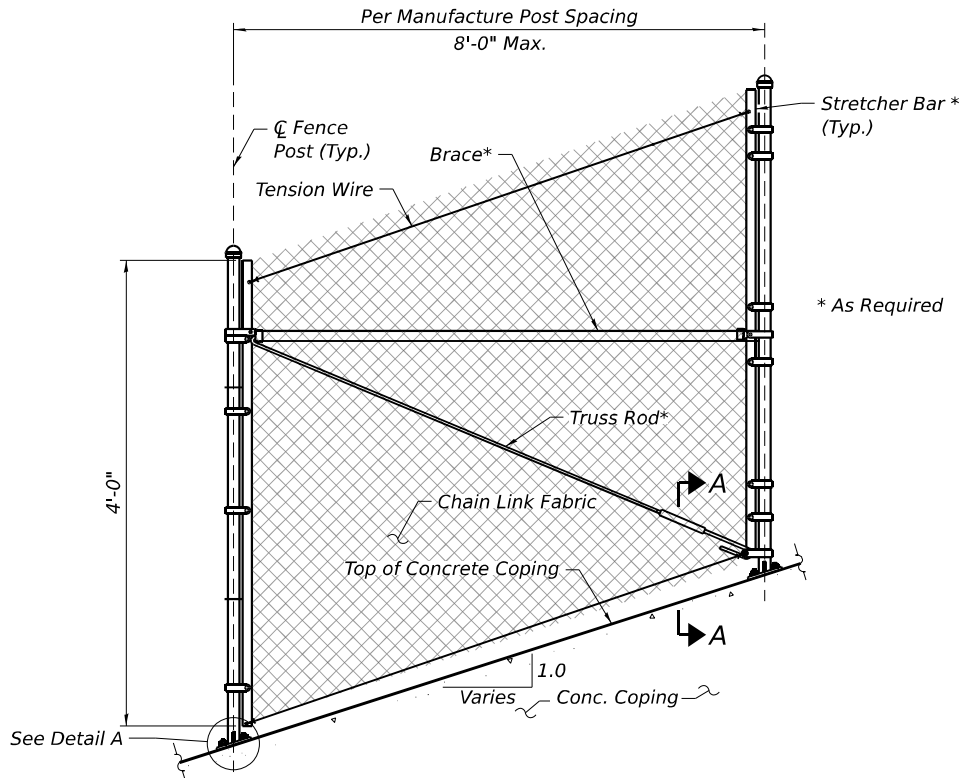
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COPING PLAN AND ELEVATION 1
STRUCTURE NO. 099-W128**

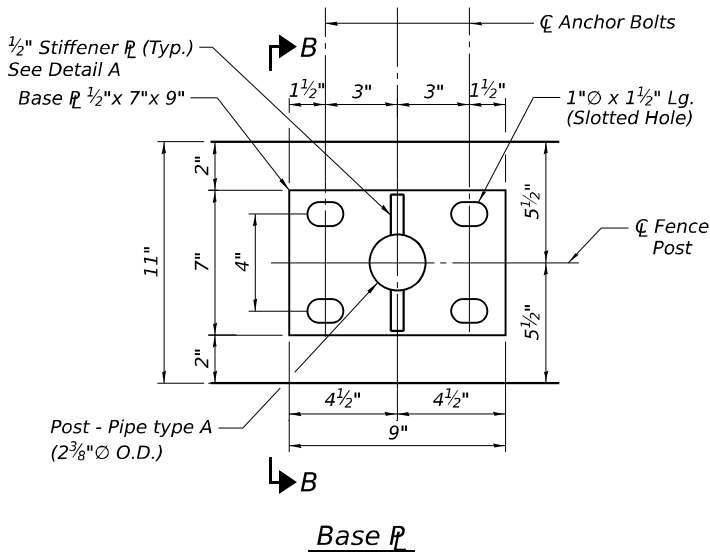
SHEET SI-04 OF SI-09 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	957
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		



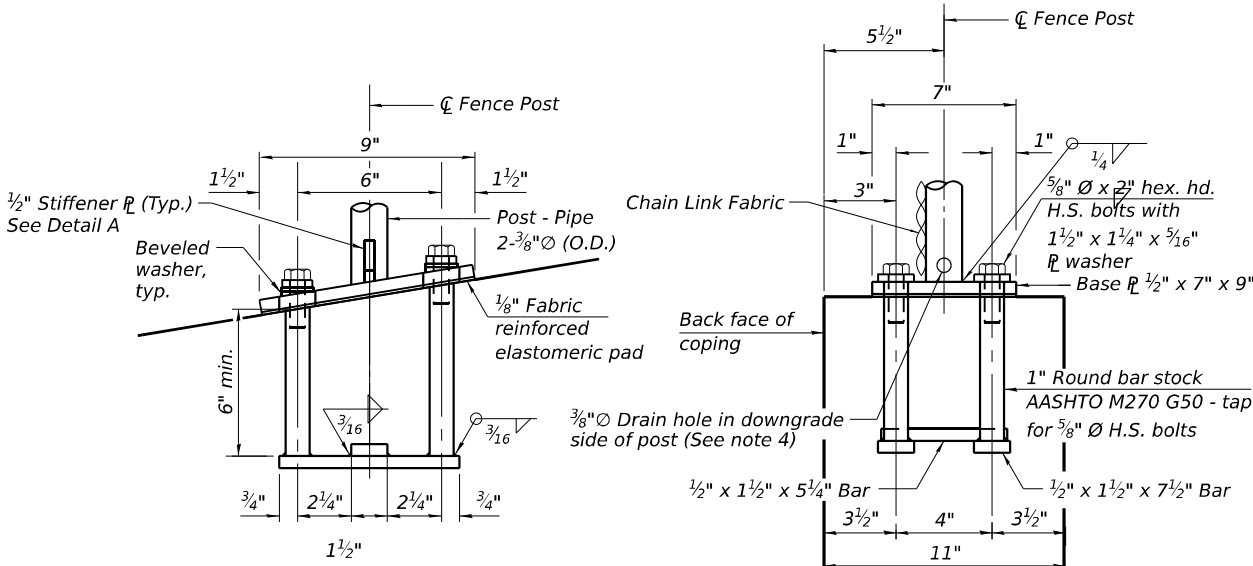
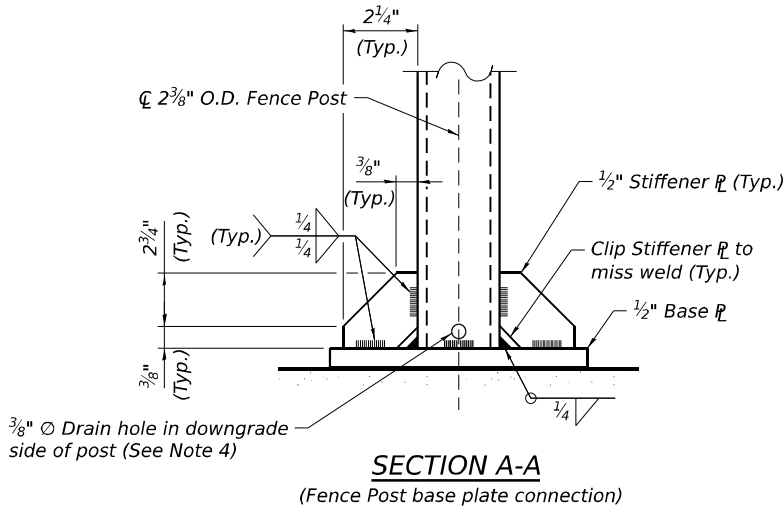


CHAIN LINK FENCE ELEVATION
(Along top of Concrete Coping)



BASE PLATE NOTES:

- Base Plates shall be fabricated from material meeting the requirements of AASHTO M270 Grade 50.
- Base Plates and Posts shall be Hot Dipped Galvanized after fabrication in accordance with AASHTO M111.
- All fabrication shall be per Article 505.04 of the Standard Specifications.
- All bolts, nuts, washers and anchors shall be galvanized according to AASHTO M 232.



ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting $\frac{5}{8}$ " $\varnothing$ fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

- See IDOT Highway Standard Drawing 664001-02 for additional fence details.
- Fence shall be continuous over concrete coping expansion joints.
- At all fence locations, the end posts shall be 7" from the the coping expansion joint and ends.
- Drill Drain hole to miss fillet weld and prior to galvanizing. Hole shall be drilled as close to the weld as possible.
- Edge distance from a construction or expansion joint in the proposed copings to an expansion anchor shall be per manufacturer's specifications.
- For CIP Concrete coping details see sheet SI-02.
- Place reinforcement bars to miss anchor rod locations.
- All heavy hex nuts shall be according to ASTM A 563 grade DH.
- All fully threaded anchor rods shall be ASTM F1554 grade 105.
- The post base plate shall be fastened to the top of the cast in place coping snug tight and given an additional $\frac{1}{8}$ " turn.

BILL OF MATERIAL

Item	Unit	Quantity
Chain Link Fence, 4' Attached to Structure	Foot	306

MODEL: Default
FILE NAME: 099W128-62F94-SI-06-Chain Link Fence.dgn



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PLOT DATE = 10/28/2025

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CHECKED - RRD
DRAWN - TCK
CHECKED - RRD

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REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE DETAILS
STRUCTURE NO. 099-W128

SHEET SI-06 OF SI-09 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	959
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



Illinois Department
of Transportation
Division of Highways
GSG

SOIL BORING LOG

Page 1 of 1

Date 9/15/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 9A - Ramp C LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG DRILLING METHOD HSA HAMMER TYPE Auto HAMMER EFF (%) 96

STRUCT. NO. 099-W128
Station
BORING NO. RWB-97
Station 7+62.5329
Offset 13.11ft RT
Ground Surface Elev. 543.52 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. N/A ft Stream Bed Elev. N/A ft Groundwater Elev.: First Encounter Dry ft Upon Completion N/A ft After Hrs. N/A ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
3 inches of Topsoil	543.27			Medium Dense to Very Dense Light Gray and Brown, Dry to Moist SAND, with gravel (SPG)		6		5
Brown, Moist FILL: SILTY CLAY LOAM, trace sand, gravel	541.02	5	1.3 P			9		
		5				50/2"		
Brown, Moist FILL: SILTY CLAY, trace gravel		3		Clay seam at 23.5 feet		11		
		3	2.5 P			9		11
		3				20		
		-5				-25		
Cobbles at 6 feet		2				50/1"		
		2	0.8 P					NR
		3						
		2						
		3	2.5 P					
		5						
		5		Gray LIMESTONE, moderately weathered, moderately fractured				
		5						
		8	4.1 B	Run 1: 28.5' - 38.5' Recovery: 85.8% RQD: 55.1% (Fair)				
		6		2-inch gravel seam at 28.5 feet				
		5						
		6	2.5 B					
		7						
		-15				-35		
Cobbles at 16 feet		3						
		5	1.5 P					
		50/3"						
		50/2"						
								NR
		523.52	-20			-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
GSG

SOIL BORING LOG

Page 1 of 1

Date 9/15/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 9A - Ramp C LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG DRILLING METHOD HSA HAMMER TYPE Auto HAMMER EFF (%) 96

STRUCT. NO. 099-W128
Station
BORING NO. RWB-98
Station 7+13.2830
Offset 0.20ft LT
Ground Surface Elev. 542.24 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. N/A ft Stream Bed Elev. N/A ft Groundwater Elev.: First Encounter Dry ft Upon Completion N/A ft After Hrs. N/A ft	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
3 inches of Topsoil	541.99			Loose to Medium Dense Light Gray, Dry SAND, with gravel (SPG) (continued)		6		
Dark Brown, Moist FILL: SILTY CLAY, trace sand, gravel	539.74	6	0.5 P			4		
		3				19		
Brown and Gray, Moist FILL: SILTY CLAY, trace gravel		3		Medium Dense to Very Dense Brown and Light Gray, Moist to Wet SAND, with gravel (SPG)		11		
		3	2.5 P			15		15
		3				8		
		-5				-25		
Cobbles at 16 feet		2				14		
		2	1.5 P			14		16
		3				50/3"		
		3						
		2						
		2	2.0 P					
		3		Auger refusal at 28.5 feet End of Boring				
		2						
		3						
		3	1.9 B					
		3						
		5	1.9 B					
		4						
		-15				-35		
Cobbles at 16 feet		3						
		4	1.9 B					
		9						
		28						
		11						4
		7						
		-20				-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1 (1 OF 3)
STRUCTURE NO. 099-W128

SHEET SI-07 OF SI-09 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	960
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



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RWB-108

Placeholder for table
RWB-109

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PLOT DATE	= 10/28/2025	CHECKED -	RRD	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2 (2 OF 3)
STRUCTURE NO. 099-W128

SHEET SI-08 OF SI-09 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	961
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3 (3 OF 3)
STRUCTURE NO. 099-W128

SHEET SI-09 OF SI-09 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	962
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	

Benchmark: Iron Rod with Cap I-80 Sta. 67+29.78, 390.65' LT
N 1,765,102.773 and E 1,052,594.602
Elev.= 546.815

Existing Structures: None.

Traffic Control: Existing entrance ramp traffic to be detoured during construction. I-80 traffic to be maintained.

Salvage: None.

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

DESIGN STRESSES

PRECAST UNITS

f'c = 4,500 psi

FIELD UNITS

f'c = 3,500 psi

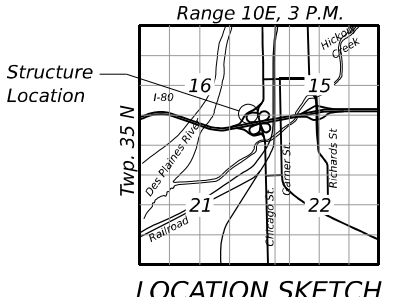
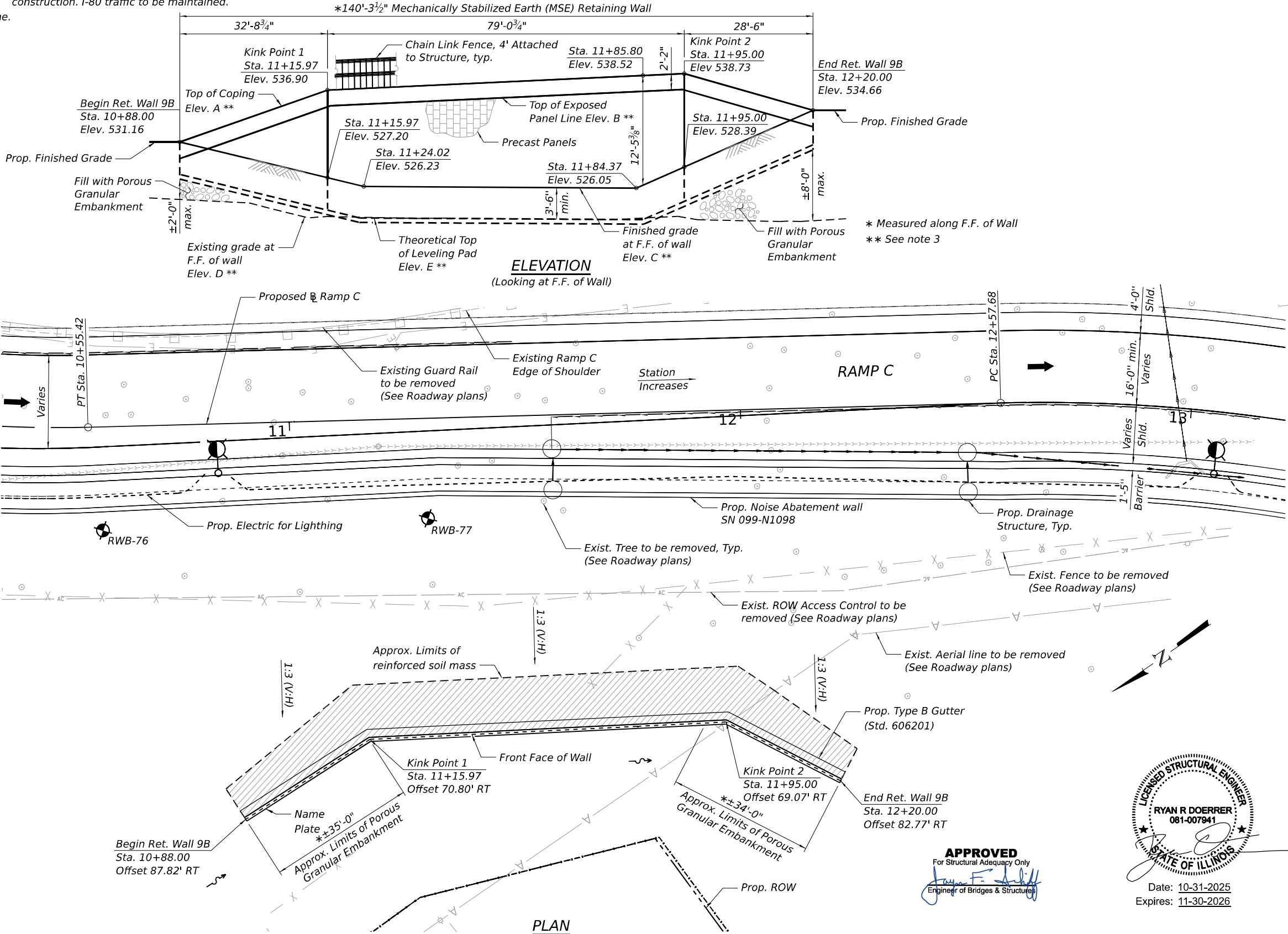
fy = 60,000 psi (Reinforcement)

NOTES:

- Stations and offsets are measured from the R of Ramp C to the front face of precast panels.
- For General Notes, Index of Sheets, Profile Grade, Curve Data and Total Bill of Material, see Sheet SJ-02.
- For Table 1 - Wall Elevations 9B, Typical Section thru Wall, see Sheet SJ-03.

LEGEND

- Soil Boring
- Prop. Underground Electric
- Exist. Underground Gasline
- Exist. Underground Waterline
- Exist. Underground Sanitary Sewer
- Exist. ROW Access Control
- Exist. ROW
- Prop. Storm Sewer
- Prop. Pipe Underdrain
- F.F. Front Face
- B.F. Back Face
- Proposed Ditch
- Approx. Limits of Reinforced Soil Mass
- Exist. Fence
- Existing Tree



GENERAL PLAN AND ELEVATION
RETAINING WALL 9B ALONG RAMP C
F.A.I. RTE. 80 - SEC. 2017-057F
WILL COUNTY
STA. 10+88.00 TO STA. 12+20.00
STRUCTURE NO. 099-W129

LICENSED STRUCTURAL ENGINEER
RYAN R. DOERRER
081-007941
STATE OF ILLINOIS
Date: 10-31-2025
Expires: 11-30-2026

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

USER NAME	jsandoval	DESIGNED	JSS	REVISED	-
PLOT SCALE	= 0:1,9999 "/in.	CHECKED	RRD	REVISED	-
PLOT DATE	= 10/28/2025	DRAWN	TCK	REVISED	-
		CHECKED	RRD	REVISED	-



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	963
CONTRACT NO. 62F94				

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Cast-in-place concrete and reinforcement steel required for coping shall be included in the payment for Mechanical Stabilized Earth Retaining wall.
3. All Exposed concrete edges shall have a ¾" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below the finished ground level
4. Protective Coat shall be applied to the exposed faces of the cast-in-place coping.
5. The Contractor shall field verify locations of existing underground utilities prior to beginning work. Existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to the directions given on the Civil Plans. The Contractor shall take all necessary precautions to protect existing utilities to remain during all stages of construction. Any damage to the existing utilities to remain caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
6. Stations and offsets are measured along the baseline of the Chicago Street Ramp C to the front face of precast panels.
7. Porous Granular Embankment shall be placed and compacted to a minimum of 95% of the maximum dry density in accordance with IDOT standard construction requirements at locations where the proposed theoretical top of leveling pad is above the existing ground line.

INDEX OF SHEETS

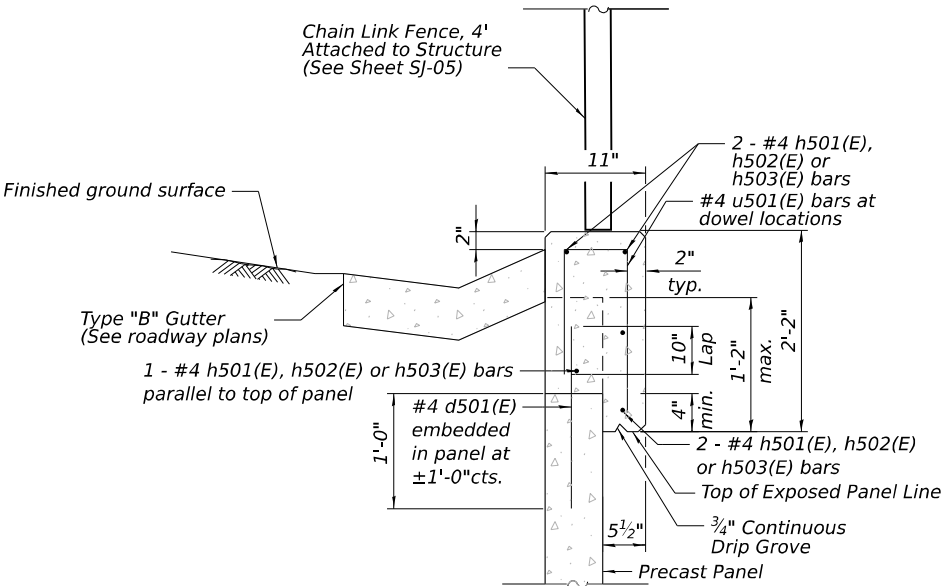
SJ-01	General Plan and Elevation
SJ-02	General Data
SJ-03	Typical Section
SJ-04	Coping Plan and Elevation
SJ-05	Chain Link Fence Attached to Structure
SJ-06	Boring Logs 1 (1 of 3)
SJ-07	Boring Logs 2 (2 of 3)
SJ-08	Boring Logs 3 (3 of 3)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	28
Protective Coat	Sq Yd	59
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq Ft	1,415
Porous Granular Embankment	Cu Yd	104
Chain Link Fence, 4' Attached to Structure	Foot	141

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Place Porous Granular Embankment in areas where the bottom of the proposed leveling pad is at a higher elevation than the existing ground.
2. Excavate existing ground where required and build MSE wall leveling pad.
3. Compact Porous Granular Embankment before placing MSE wall leveling pad.
4. Construct leveling pad and place MSE wall to the required elevation.
5. Construct cast in place concrete coping.
6. Grade remaining finish grade slope to meet proposed roadway.
7. Construct Ground Mounted Noise Abatement wall.



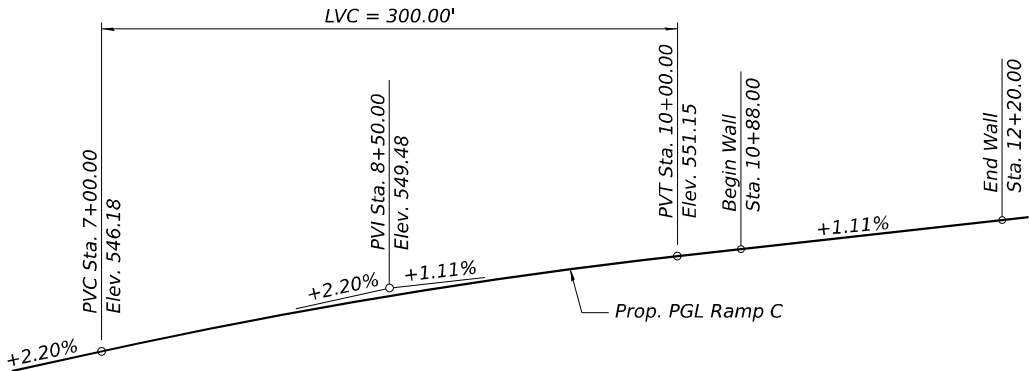
COPING DETAIL

PR RAMP C
CURVE 1

P.I. Sta. = 9+40.44
Δ = 58°19'14" (LT)
D = 22°55'06"
R = 250.00'
T = 139.49'
L = 254.47'
E = 36.28'
e = 6.0%
P.C. Sta. = 8+00.95
P.T. Sta. = 10+55.42

PR RAMP C
CURVE 2

P.I. Sta. = 14+34.93
Δ = 52°25'33" (RT)
D = 15°54'56"
R = 360.00'
T = 177.24'
L = 329.40'
E = 41.27'
e = 6.0%
P.C. Sta. = 12+57.68
P.T. Sta. = 15+87.08



RAMP C PROFILE GRADE
(Along Prop.  Ramp C)

STA. 10+88.00 TO 12+20.00
BUILT 20-- BY
STATE OF ILLINOIS
F.A.I. Rt. 80 Sec. 2017-057F
LOADING HL-93
STR. NO. 099-W129

NAME PLATE

See Std. 515001

MODEL: Default
FILE NAME: 099W129-62F94-SJ-02-GenNotesandBOM.dgn



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	CHECKED - RRD	REVISED -
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PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

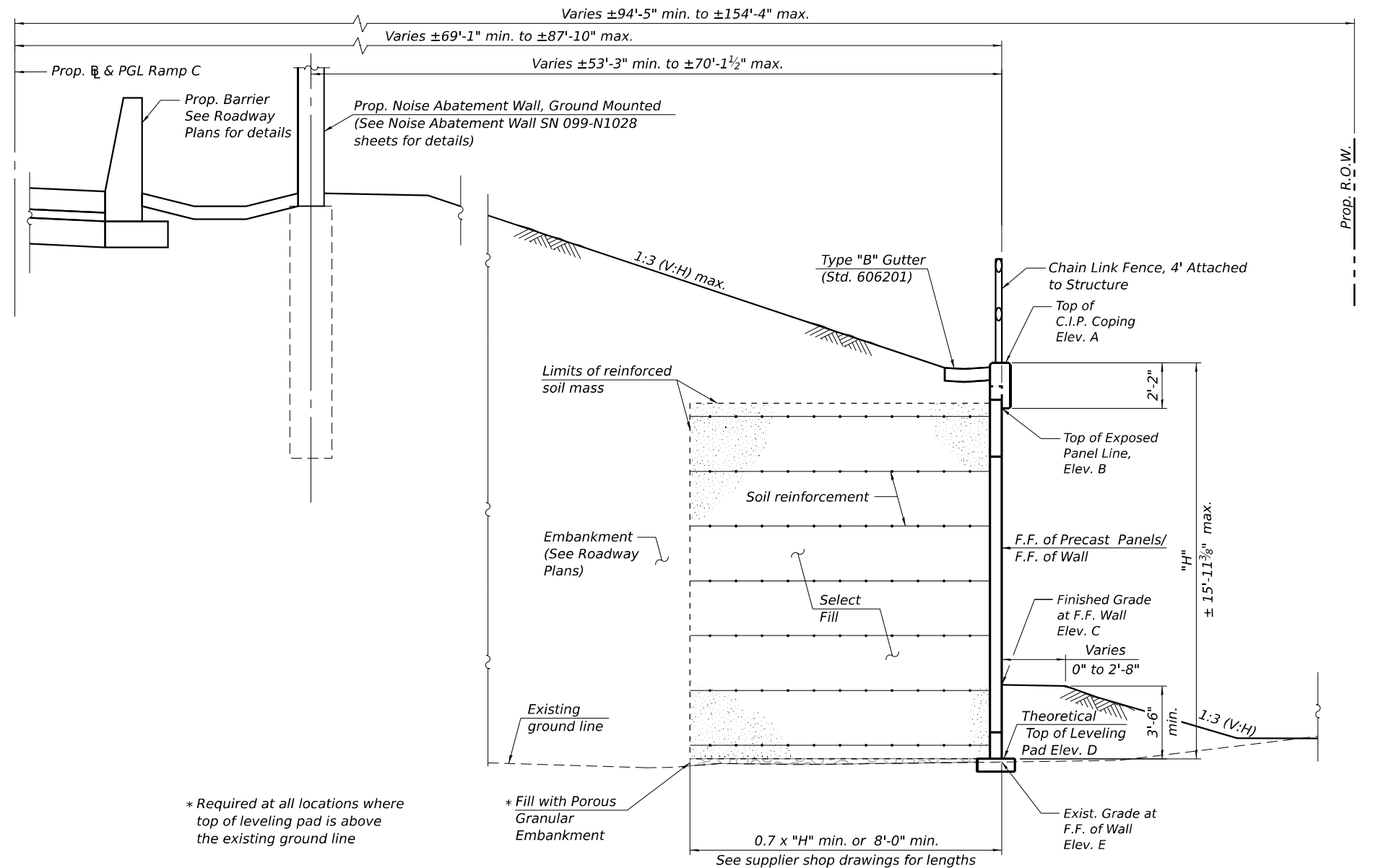
GENERAL DATA
STRUCTURE NO. 099-W129

SHEET SJ-02 OF SJ-08 SHEETS

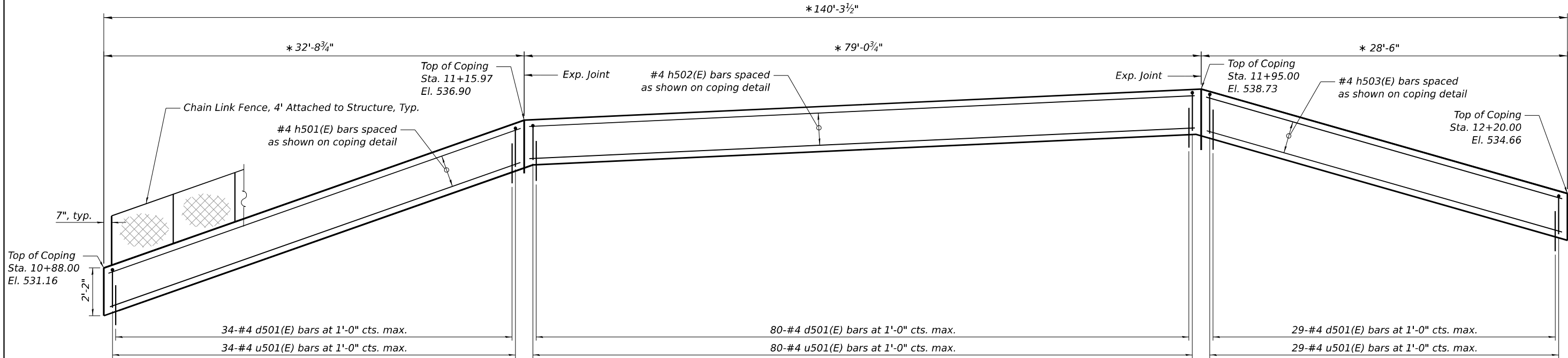
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	964
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

TABLE 1- WALL ELEVATIONS 9B

Station	Offset from Ramp C	A	B	C	D	E
		Top of C.I.P. Coping	Top of Exposed Panel Line	Finished Grade at F.F. of Wall	Theoretical Top of Leveling Pad	Exist. Grade at F.F. Wall
10+88.00	87.82' Rt.	531.16	528.99	531.16	527.66	524.78
11+10.00	74.43' Rt.	535.64	533.47	528.05	524.55	523.09
11+15.97	70.83' Rt.	536.90	534.73	527.20	523.70	522.89
11+20.00	70.72' Rt.	537.00	534.83	526.72	523.22	522.85
11+24.02	70.65' Rt.	537.09	534.92	526.23	522.73	522.81
11+50.00	70.05' Rt.	537.69	535.52	526.16	522.66	522.66
11+80.00	69.39' Rt.	538.38	536.21	526.07	522.57	522.58
11+84.37	69.29' Rt.	538.48	536.31	526.05	522.55	522.69
11+95.00	69.07' Rt.	538.73	536.56	528.39	524.89	522.78
12+10.00	77.27' Rt.	536.26	534.09	532.15	528.65	522.39
12+20.00	82.77' Rt.	534.66	532.49	534.66	531.16	522.42

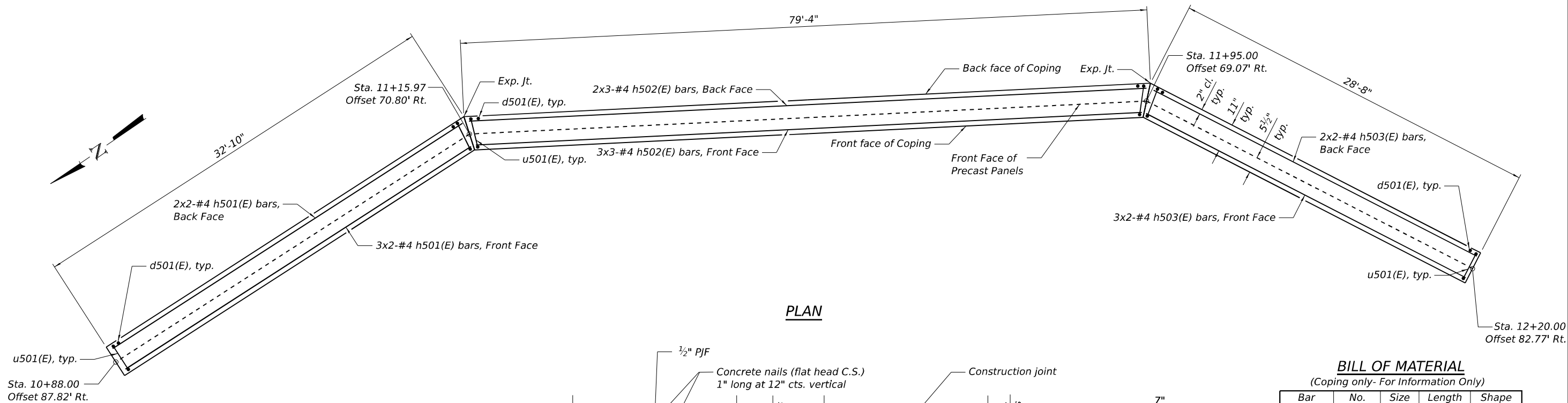


TYPICAL SECTION THRU MSE WALL
(Looking South)



*Measured along F.F. of Precast Panel

ELEVATION - UNFOLDED
(Looking North)

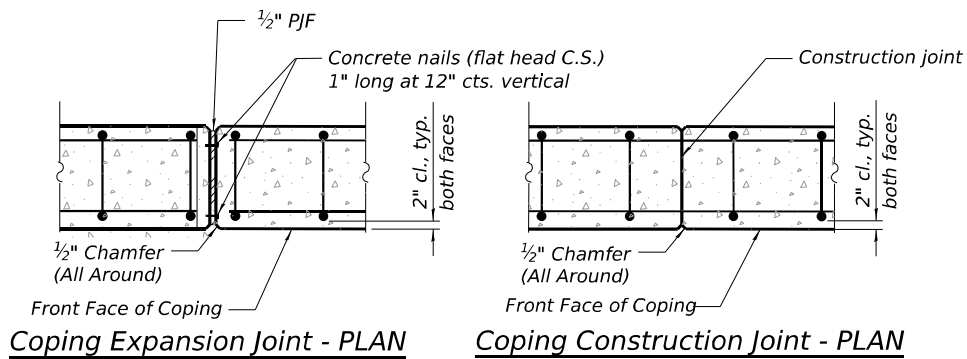


PLAN

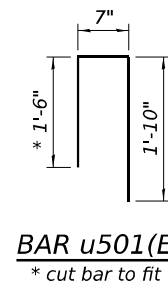
NOTES:

1. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bar per line.
2. For control points stations, offset, elevations and Typical section, see Sheet SJ-03.
3. For coping detail, see Sheet SJ-02.
4. The cost of the concrete and the reinforcement steel required for the coping shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.
5. For coping construction joint spacing requirements see Coping Construction Joint - Plan Detail.

MIN. LAP LENGTH
#4 Bar = 2'-11"



Coping Construction Joint - PLAN
(Provide construction joints at 30'-0" max. and 20'-0" min.)



BILL OF MATERIAL
(Coping only- For Information Only)

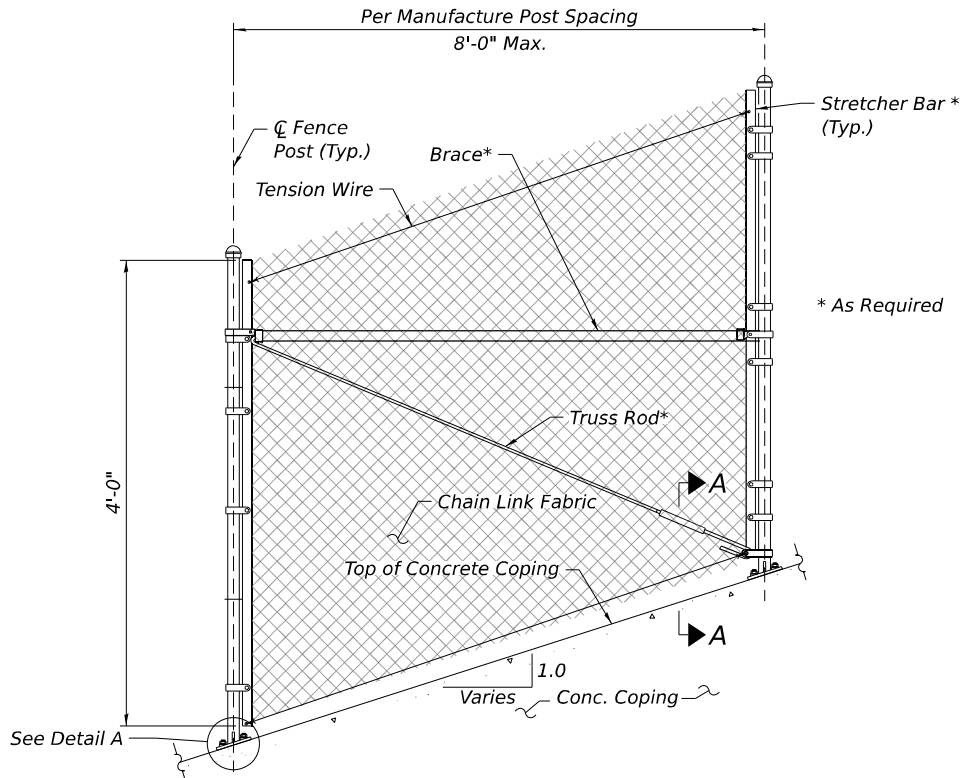
Bar	No.	Size	Length	Shape
d501(E)	143	#4	2'-0"	
h501(E)	10	#4	17'-11"	
h502(E)	15	#4	28'-5"	
h503(E)	10	#4	15'-10"	
u501(E)	143	#4	3'-11"	
Concrete Structures			Cu. Yd.	9.5
Reinforcement Bars, Epoxy Coated			Pound	1,080

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COPING PLAN AND ELEVATION
STRUCTURE NO. 099-W129

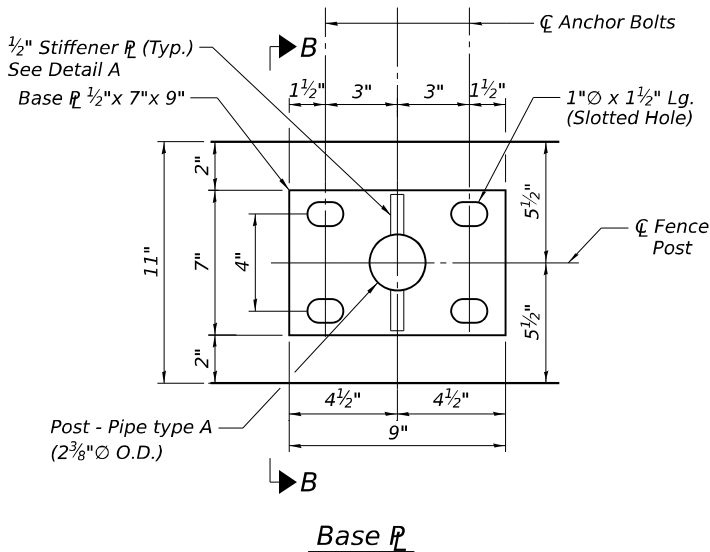
SHEET SJ-04 OF SJ-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	966
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



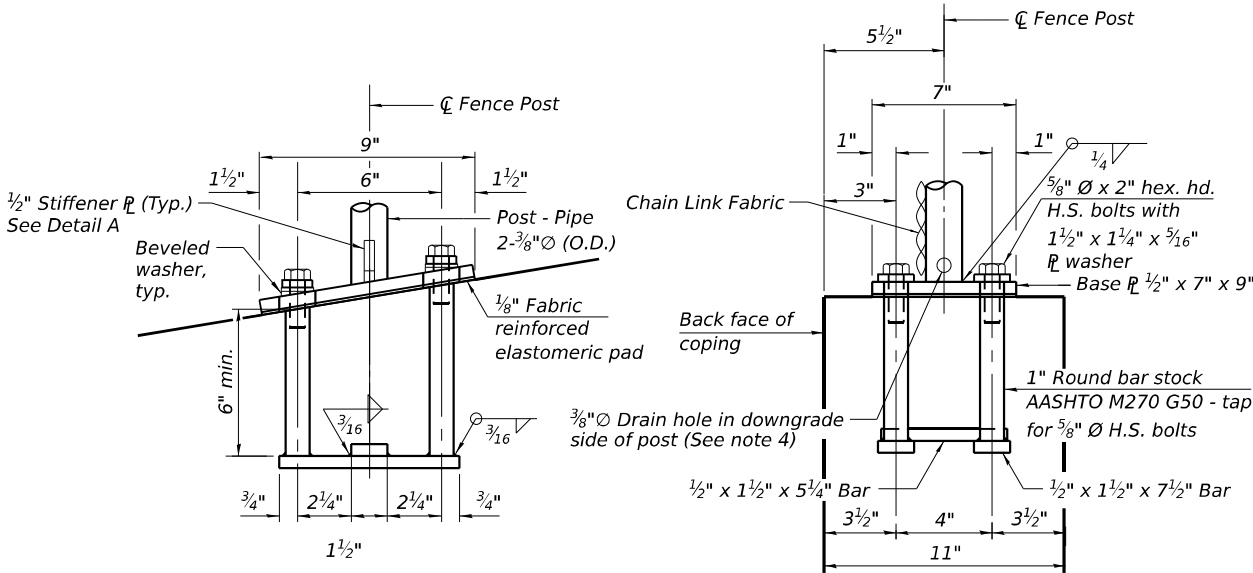
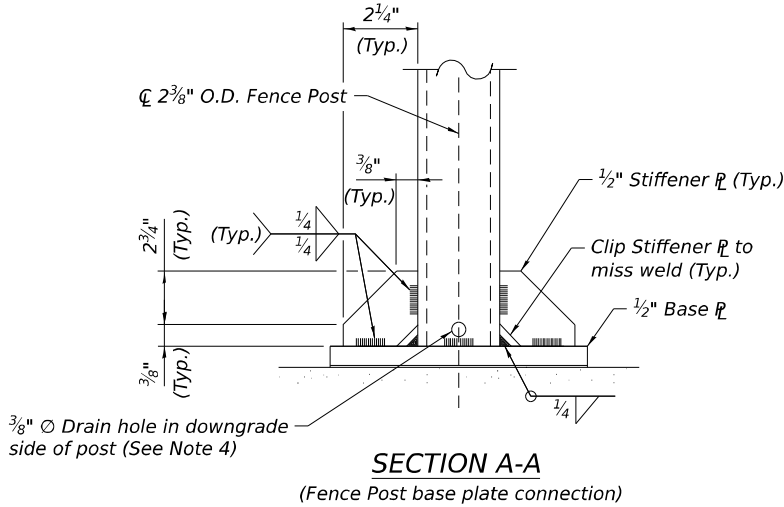
CHAIN LINK FENCE ELEVATION

(Along top of Concrete Coping)



BASE PLATE NOTES:

- A. Base Plates shall be fabricated from material meeting the requirements of AASHTO M270 Grade 50.
- B. Base Plates and Posts shall be Hot Dipped Galvanized after fabrication in accordance with AASHTO M111.
- C. All fabrication shall be per Article 505.04 of the Standard Specifications.
- D. All bolts, nuts, washers and anchors shall be galvanized according to AASHTO M 232.



Detail A

SECTION B-B

(Stiffener not shown for clarity)

ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 3/8"Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

- See IDOT Highway Standard Drawing 664001-02 for additional fence details.
- Fence shall be continuous over concrete coping expansion joints.
- At all fence locations, the end posts shall be 7" from the the coping expansion joint and ends.
- Drill Drain hole to miss fillet weld and prior to galvanizing. Hole shall be drilled as close to the weld as possible.
- Edge distance from a construction or expansion joint in the proposed copings to an expansion anchor shall be per manufacturer's specifications.
- For CIP Concrete coping details see sheet SJ-04.
- Place reinforcement bars to miss anchor rod locations.
- All heavy hex nuts shall be according to ASTM A 563 grade DH.
- All fully threaded anchor rods shall be ASTM F1554 grade 105.
- The post base plate shall be fastened to the top of the cast in place coping snug tight and given an additional 1/8" turn.

BILL OF MATERIAL

Item	Unit	Quantity
Chain Link Fence, 4' Attached to Structure	Foot	141

MODEL: Default
FILE NAME: 099W129-62F94-SJ-05-Chain Link Fence.dgn



USER NAME = jsandoval
PLOT SCALE = 0:1.9999 " = 1" / in.
PLOT DATE = 10/28/2025

DESIGNED - JSS
CHECKED - RRD
DRAWN - TCK
CHECKED - RRD

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE ATTACHED TO STRUCTURE
STRUCTURE NO. 099-W129

SHEET SJ-05 OF SJ-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	967
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



Illinois Department
of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/22/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 10 - Ramp C Sta 7+89 LOGGED BY DD

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. Station BORING NO. RWB-76 Station 10+58.1017 Offset 22.95ft LT Ground Surface Elev. 547.81 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion N/A ft
After Hrs. N/A ft

DEPTH (ft) BLOW S Qu (%)

DEPTH (ft) BLOW S Qu (%)

13 inches of Asphalt	546.73				Light Brown, Dry FILL: GRAVEL, with sand (continued) Cobbles at 20 feet	526.81			
Brown, Moist FILL: SILTY CLAY		3					6		
		3	4.0	16	Dense Brown, Dry SAND, with gravel (SPG)		27		4
		5	P				11		
		1					40		
		3	2.1	18			25		3
		6	B				13		
		-5					-25		
		1			Medium Dense to Very Dense Dark Brown and Brown, Moist SANDY LOAM, with gravel (SM)	521.81	10		
		4	1.0	18			13		9
		5	B				9		
		1					12		
		4	1.9	18			9		11
		7	B				12		
	537.81	-10					-30		
Gray, Moist FILL: SILTY CLAY		2					5		
		4	1.3	18	Auger refusal at 32 feet End of Boring	515.81	10		15
		9	B				50/2"		
Brown, Moist FILL: SILTY CLAY Cobbles at 13.5 feet	535.31								
		6							
		9	1.9	17					
		11	B						
		-15					-35		
Cobbles at 16 feet		2							
		6	3.3	19					
		31	B						
Light Brown, Dry FILL: GRAVEL, with sand Cobbles at 18.5 feet	530.31								
		7							
		10		4					
		8							
		-20					-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/20/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 10 - Ramp C Sta 7+89 LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. Station BORING NO. RWB-77 Station 11+30.1683 Offset 22.17ft LT Ground Surface Elev. 547.50 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter Dry ft
Upon Completion N/A ft
After Hrs. N/A ft

DEPTH (ft) BLOW S Qu (%)

DEPTH (ft) BLOW S Qu (%)

13 inches of Asphalt	546.42				Light Brown, Dry FILL: GRAVEL, with sand (continued) Cobbles at 20 feet	526.50			
Brown, Moist to Very Moist FILL: SILTY CLAY, trace sand and gravel		16							
		5	4.5	16	Loose to Medium Dense Light Brown and Gray, Dry SAND, with gravel (SPG) Cobbles at 21 feet		13		
		7	P				18		3
		6					9		
		6					17		
		5	5.2	17			7		3
		6	S				3		
		-5					-25		
		4			Very Dense Dark Brown, Moist SANDY LOAM, with gravel (SM)	521.50	6		
		4	4.5	18			9		13
		6	P				50/3"		
		4							
		6	5.0	20	Very Dense Brown, Moist SAND, with gravel, trace clay and cobbles (SPG) Auger refusal at 30 feet	519.00	4		
		5	S				11		10
		7			Light Gray LIMESTONE, moderately weathered, moderately fractured	517.50	45		
		9	5.1	17					
		11	B						
		4			Run 1: 30' - 40' Recovery: 80.8% RQD: 44.2% (Poor)				
		4	4.5	27					
		8	P						
		-15					-35		
		5							
		5	4.5	18					
		11	P						
		17							
		37		3					
		15							
		-20					-40		
Light Brown, Dry FILL: GRAVEL, with sand	529.00								
		17							
		37		3					
		15							
		-20					-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1 (1 of 3)
STRUCTURE NO. 099-W129

SHEET SJ-06 OF SJ-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	968
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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CHECKED - RRD	REVISED -	
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10/28/2025 10:04:18 AM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2 (2 of 3)
STRUCTURE NO. 099-W129

SHEET SJ-07 OF SJ-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	969
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3 (3 of 3)
STRUCTURE NO. 099-W129

SHEET SJ-08 OF SJ-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	970
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	

Benchmark: Chiseled X Sta. 710+18.42, 1,729.75' LT
N 1,766,568.213 and E 1,053,232.101
Elev. = 527.785

Existing Structures: None.

Traffic Control: Traffic will be detoured during construction.

Salvage: None.

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

DESIGN STRESSES
FIELD UNITS

f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)

INDEX OF SHEETS

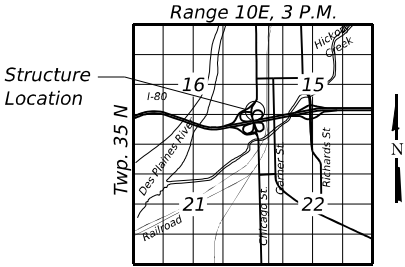
SK-01 General Plan and Elevation
SK-02 General Data
SK-03 Section Thru Wall
SK-04 Plan and Elevation
SK-05 Light Pole Plan and Elevation
SK-06 Boring Logs (Sheet 1 of 2)
SK-07 Borings Logs (Sheet 2 of 2)

NOTES:

- Stations and offsets are measured from the $\mathcal{C}$ Chicago Street to the front face of precast panels.
- For General Notes, Index of Sheets, Profile Grade, Curve Data and Total Bill of Material, see Sheet SK-02.
- The Contractor shall exercise extreme caution during wall construction to make certain that the construction activities will not have detrimental effects on the adjacent utilities and other facilities.

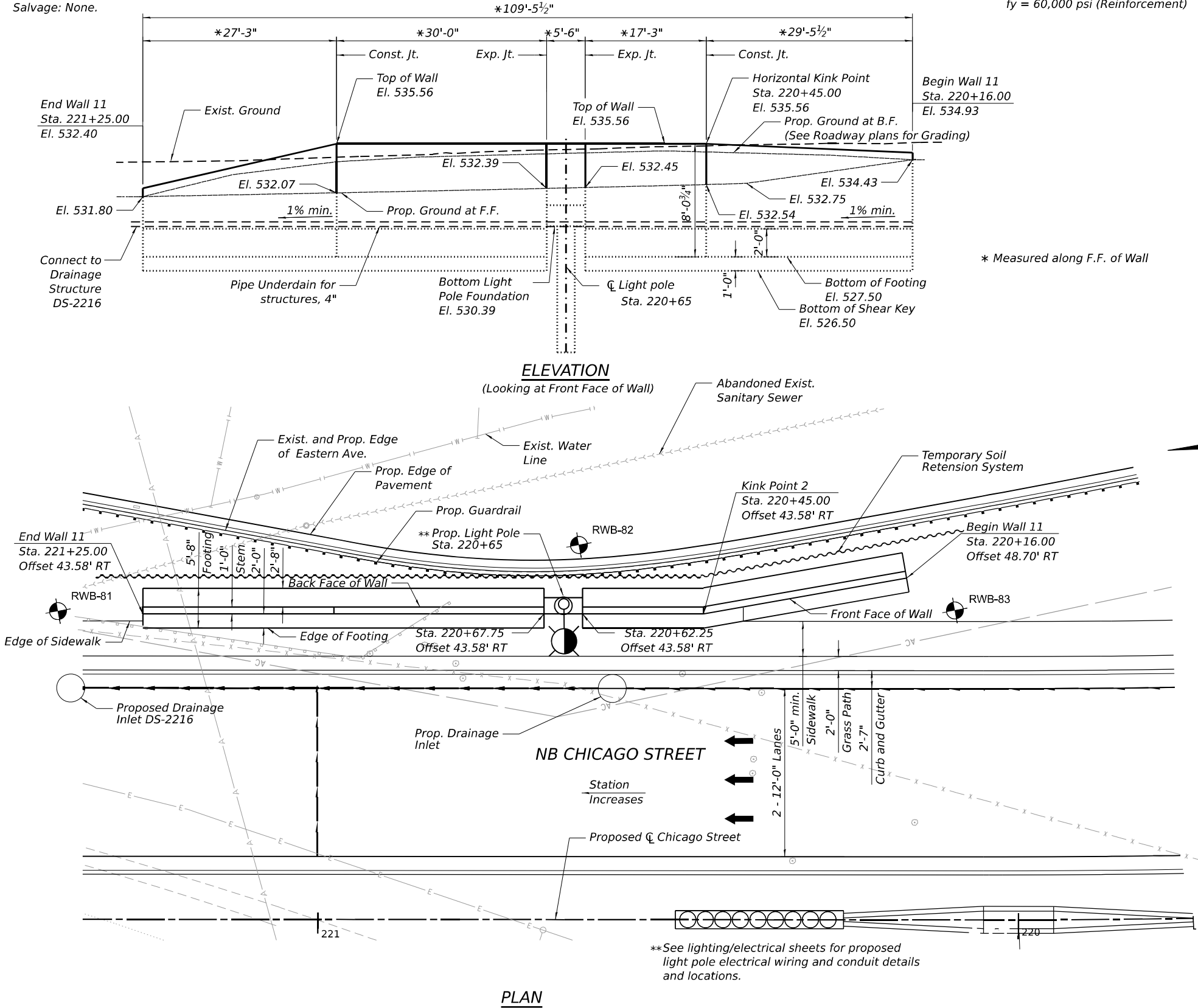
LEGEND

- Temporary Soil Retention System
- Soil Boring
- Exist. Underground Electric
- Exist. Underground Gasline
- Exist. Underground Waterline
- Exist. Underground Sanitary Sewer
- Exist. ROW Access Control
- Exist. Fence
- Exist. Guardrail
- Prop. Pipe Underdrain
- Prop. Storm Sewer
- Prop. Underground Electric
- F.F. Front Face
- B.F. Back Face
- El. Elevation
- Const. Construction joint
- Exp. Expansion joint



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
RETAINING WALL 11 ALONG CHICAGO STREET
F.A.I. RTE. 80 - SEC. 2017-057F
WILL COUNTY
STA. 220+16.00 TO STA. 221+25.00
STRUCTURE NO. 099-W040



10/28/2025 10:05:30 AM

MODEL: Default
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1111 BURLINGTON AVE., SUITE 111 - LISLE, IL 60532
(630) 641-8900

10/28/2025 10:05:30 AM

USER NAME = jsandoval

DESIGNED - JSS

CHECKED - RRD

PLOT SCALE = 0:1.9999 " = 1" / in.

PLOT DATE = 10/28/2025

DESIGNED - JSS

CHECKED - RRD

REVIS

REVIS

REVIS

REVIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SK-01 OF SK-07 SHEETS

ILLINOIS FED. AID PROJECT

CONTRACT NO. 62F94

1342 971

SECTION 2017-057F

F.A.I. RTE. 80

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	246
Reinforcement Bars, Epoxy Coated	Pound	5,120
Name Plates	Each	1
Temporary Soil Retention System	Sq. Yd.	870
Concrete Structures (Retaining Wall)	Cu. Yd.	68.9
Granular Backfill for Structures	Cu. Yd.	55
Concrete Sealer	Sq. Ft.	495
Geocomposite Wall Drain	Sq. Yd.	45
Pipe Underdrains for Structures 4"	Foot	140
Light pole Foundation, 30" Diameter	Foot	15

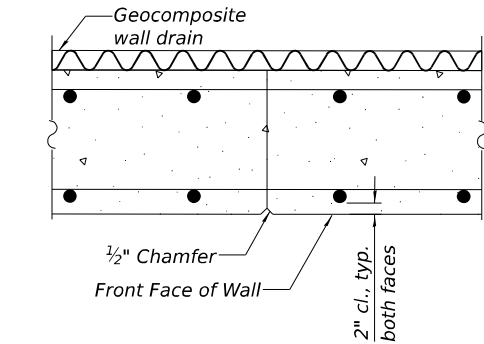
GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Concrete sealer shall be applied to exposed surfaces of the new wall.
- The Contractor shall field-verify locations of existing underground utilities prior to beginning work. Existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to directions given on the Civil Plans. The Contractor shall take all necessary precautions to protect existing utilities to remain during all stages of construction. Any damage to existing utilities to remain caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- The Pipe Underdrains for Structures, 4" shall be sloped to drain towards Drainage Structure 2216. A non-perforated pipe per section 601 of the IDOT Standard Specifications shall be used to connect the Pipe Underdrain for Structure to Drainage Structure 2216. Cost included in Pipe Underdrains for Structures, 4".

STA. 220+16.00 TO 221+25.00
BUILT 20-- BY
STATE OF ILLINOIS
F.A.I. Rt. 80 Sec. 2017-057F
LOADING HL-93
STR. NO. 099-W040

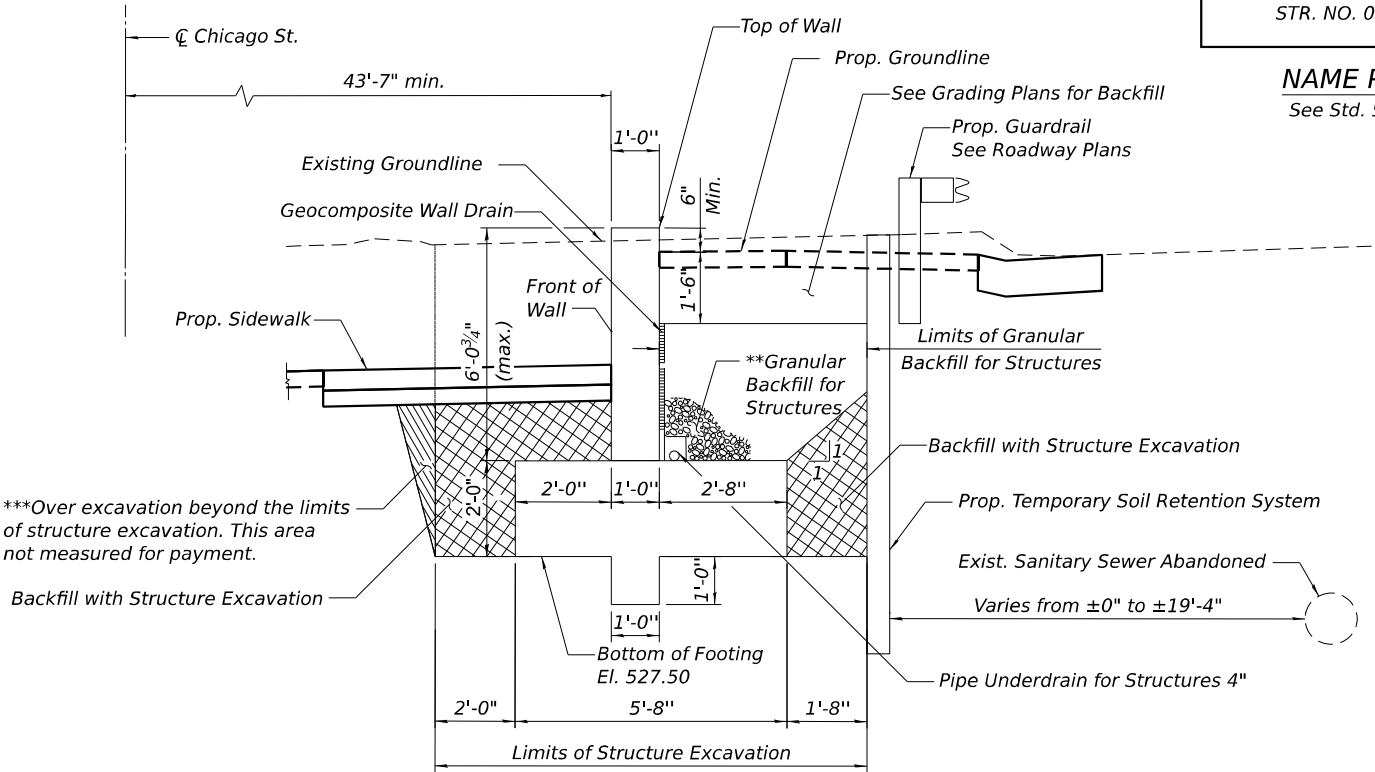
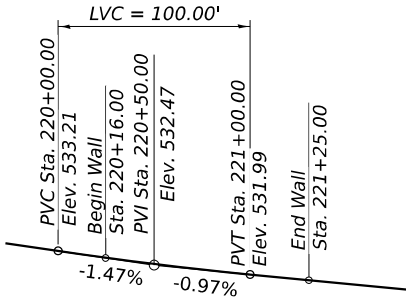
NAME PLATE
See Std. 515001

CONSTRUCTION JOINT



PROFILE GRADE

(Along Prop. NB PGL Chicago St.)



TYPICAL SECTION

***Over excavation beyond the limits of structure excavation. This area not measured for payment.

***Backfill remainder of structure excavation and over excavation with same material specified for roadway embankment.

**Excavation for Granular Backfill for Structures paid for as Structure Excavation

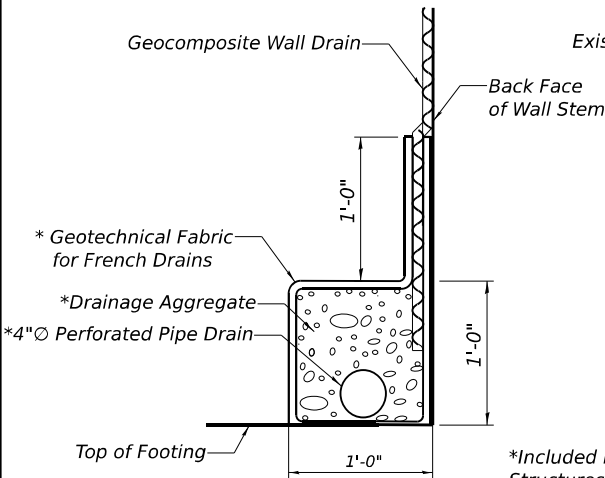
±124'-4 1/8" Temporary Soil Retention System

86'-9"

37'-7 1/8"

Kink point
Sta. 220+07.85
El. 535.42
Offset 50.0' Rt.

Begin soil retention system
Sta. 220+07.85
El. 535.71
Offset 55.0' Rt.



PIPE UNDERDRAIN DETAIL

*Included in the cost of Pipe Underdrains for Structures 4". Pipe Underdrains shall tie into drainage structure number 2216. The drain pipe will outlet at approximately Sta. 221+50. See General Note 4.

TEMPORARY SOIL RETENTION SYSTEM ELEVATION

(Looking East)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 099-W040

SHEET SK-02 OF SK-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	972
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

SED
1111 BURLINGTON AVE., SUITE 111 - LISLE, IL 60532
(630) 641-9900

USER NAME	= jsandoval
PLOT SCALE	= 0.167 " / in.
PLOT DATE	= 10/28/2025

DESIGNED	- JSS
CHECKED	- RRD
DRAWN	- TCK
CHECKED	- RRD

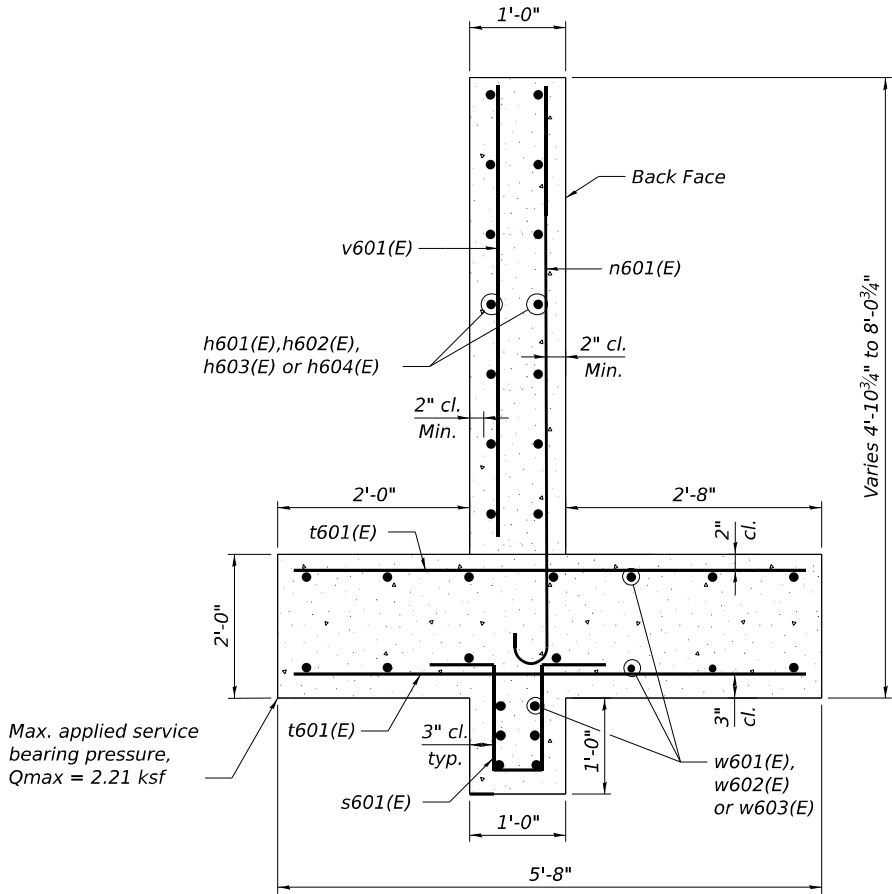
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REVISED	-
REVISED	-

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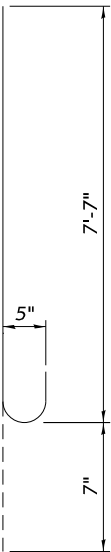
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BILL OF MATERIAL

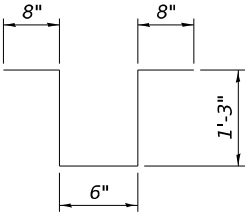
Bar	No.	Size	Length	Shape
h601(E)	12	#4	29'-1"	
h602(E)	12	#4	20'-5"	
h603(E)	12	#4	29'-8"	
h604(E)	12	#4	30'-5"	
n601(E)	111	#5	8'-2"	
s601(E)	109	#4	4'-4"	
t601(E)	218	#5	5'-4"	
v601(E)	76	#4	5'-8"	
w601(E)	20	#4	29'-6"	
w602(E)	20	#4	20'-5"	
w603(E)	40	#4	30'-3"	
Concrete Structures (Retaining Wall)			Cu. Yd.	68.9
Reinforcement Bars, Epoxy Coated			Pound	5,120



SECTION THRU WALL



Bar n601(E)



Bar s601(E)

MODEL: Default
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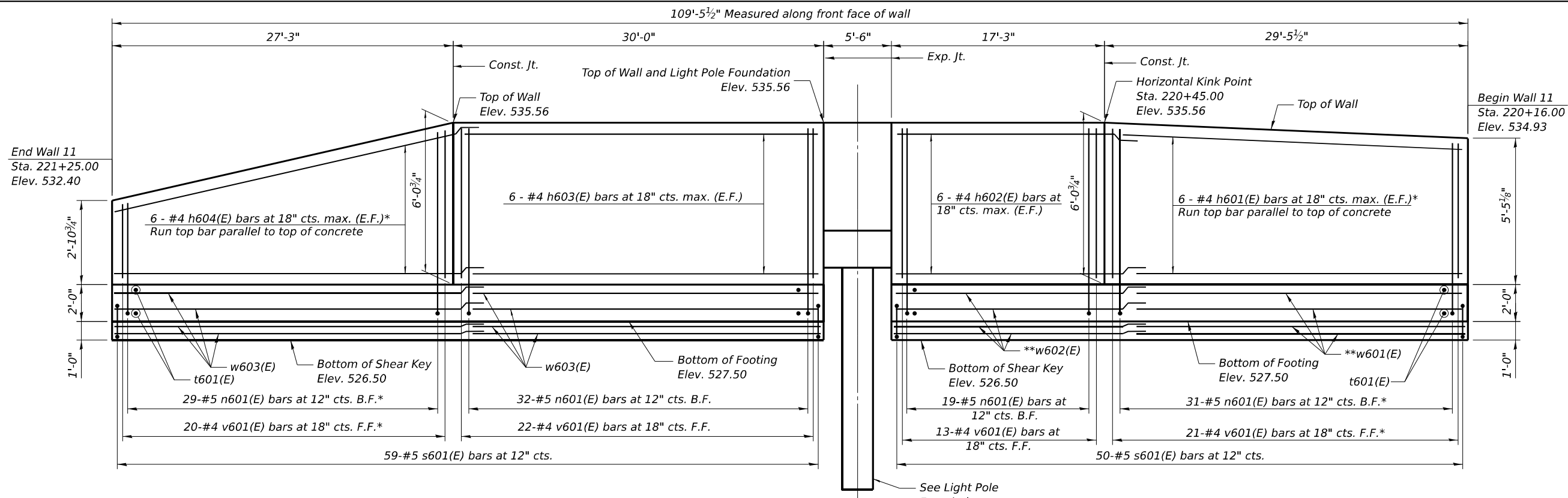
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	CHECKED - RRD	REVISED -
PLOT SCALE = 0.167" / in.	DRAWN - TCK	REVISED -
PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

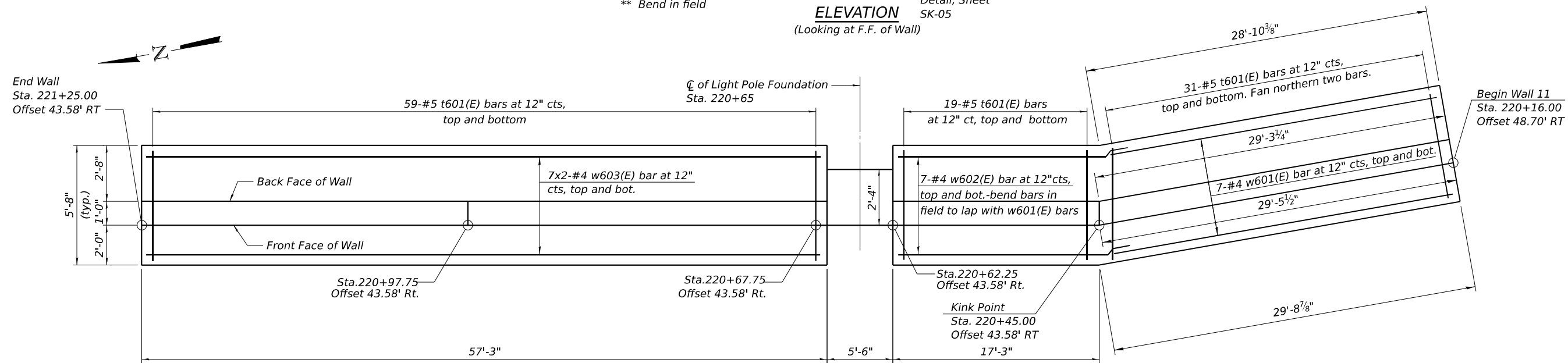
SECTIONS THRU WALL
STRUCTURE NO. 099-W040

SHEET SK-03 OF SK-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	973
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking at F.F. of Wall)



PLAN
(Stem and Shear Key Reinforcement not shown for clarity)

NOTES:

1. Stations and offsets are measured from the C Chicago Street to the front face of wall.
2. For Section thru wall, see Sheet SK-03.
3. For Bill of Material and bar bend diagrams, see Sheet SK-03.
4. Bars indicated thus 7x2-#4 etc. indicates 7 lines of bars with 2 lengths per line.

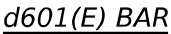
MIN. BAR LAPS
#4 bar = 3'-2"

MODEL: Default
FILE NAME: 099W040-62F94-SK-04-Plan-Elev.dgn

SEC 1111 BURLINGTON AVE, SUITE 111 - Lisle, IL 60532 (630) 641-8900	USER NAME = jsandoval	DESIGNED - JSS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND ELEVATION STRUCTURE NO. 099-W040	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - RRD	REVISED -			80	2017-057F	WILL	1342	974	
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	PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -			SHEET SK-04 OF SK-07 SHEETS					
10/28/2025 10:06:30 AM						ILLINOIS		FED. AID PROJECT			



* see Section A-A



* Verify dimensions of anchor rods with light pole manufacturer before ordering anchor bolts.



BILL OF MATERIAL

SED
HARRINGTON AVE., SUITE 111 - OLSIE, IL 60535
(630) 641-9900

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHT POLE PLAN AND ELEVATION
STRUCTURE NO. 099-W040

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	975
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		



Illinois Department
of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/2/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 11 - Chicago Street LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 15, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. Station BORING NO. RWB-81
Station 221+59.3113
Offset 22.46ft RT
Ground Surface Elev. 533.27 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter 519.3 ft ▼
Upon Completion N/A ft
After Hrs. N/A ft

3 inches of Asphalt	533.02				
Medium Dense to Extremely Dense		6			
Light Brown, Dry to Moist SAND, with gravel (SPG)		33		5	
Cobbles from 2 to 12 feet		50/2"			
		10			
		14		6	
		8			
		-5			
		5			
		11		6	
		12			
		3			
		15		8	
		16			
		-10			
		10			
		22		6	
		23			
Very Dense Gray, Moist SAND, with gravel (SPG)	520.77				
		50/1"			
				14	
		-15			
		22			
Cobbles at 16.5 feet		15		14	
		50/6"			
Very Dense Gray, Moist GRAVEL (GP)	515.77				
Cobbles at 18.5 feet		15		12	
		50/6"			
		-20			

End of Boring
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/2/22

ROUTE I-80 DESCRIPTION Retaining Wall No. 11 - Chicago Street LOGGED BY KA

SECTION C-91-109-22 LOCATION SEC. 15, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. Station BORING NO. RWB-82
Station 220+62.7734
Offset 53.47ft RT
Ground Surface Elev. 534.95 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter 518.5 ft ▼
Upon Completion N/A ft
After Hrs. N/A ft

4 inches of Asphalt	534.62				
Medium Dense to Extremely Dense		5			
Light Brown, Dry to Moist SAND, with gravel (SPG)		17		6	
Cobbles from 2.5 to 12.5 feet		14			
		13			
		33		4	
		21			
		-5			
		7			
		14		4	
		7			
		10			
		11		6	
		13			
		-10			
		6			
		7		3	
		12			
		3			
		19		12	
		30			
		-15			
		7			
Cobbles at 16 feet		37		7	
		50/2"			
Very Dense Brown, Moist SAND, with gravel (SPG)	517.45				
		11			
		45		12	
		14			
		-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 1 OF 2)
STRUCTURE NO. 099-W040

SHEET SK-06 OF SK-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	976
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

10/28/2025 10:06:49 AM

Page 1 of 1

Date 6/1/22

ROUTE I-80 **DESCRIPTION** Retaining Wall No. 11 - Chicago Street **LOGGED BY** KA

SECTION C-91-109-22 LOCATION SEC. 15, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG	Latitude - Longitude CME-75	HAMMER TYPE	Auto
		DRILLING METHOD	HSA	HAMMER EFF (%)	91

STRUCT. NO. _____ Station _____	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ N/A ft
					Stream Bed Elev. _____ N/A ft
BORING NO. _____ RWB-83					Groundwater Elev.: _____
Station _____ 220+9.1203					First Encounter _____ 519.8 ft ▼
Offset _____ 44.17ft RT			Qu		Upon Completion _____ N/A ft
Ground Surface Elev. _____ 536.12 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. _____ N/A ft

	Depth	Soil Description	Moisture Content (%)	Grain Size Distribution (%)
2 inches of Topsoil	0 - 2	Medium Dense to Dense Light Brown, Dry to Moist SAND, with gravel (SPG)	17	6
Cobbles from 2.5 to 5 feet	2 - 5		23 18	
	5 - 10		16 21 25	4
	10 - 15		5 9 16	7
	15 - 20		4 10 5	8
	20 - 25		7 19 16	6
	25 - 30		6 12 7	9
Very Dense Gray, Moist WEATHERED LIMESTONE	30 - 35		50/2"	9
Auger refusal at 16.5 feet End of Boring	35 - 40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

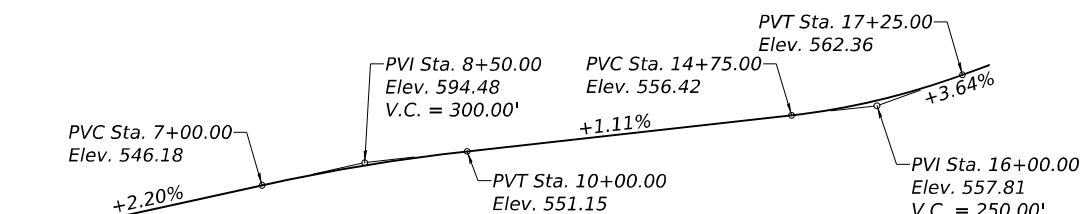
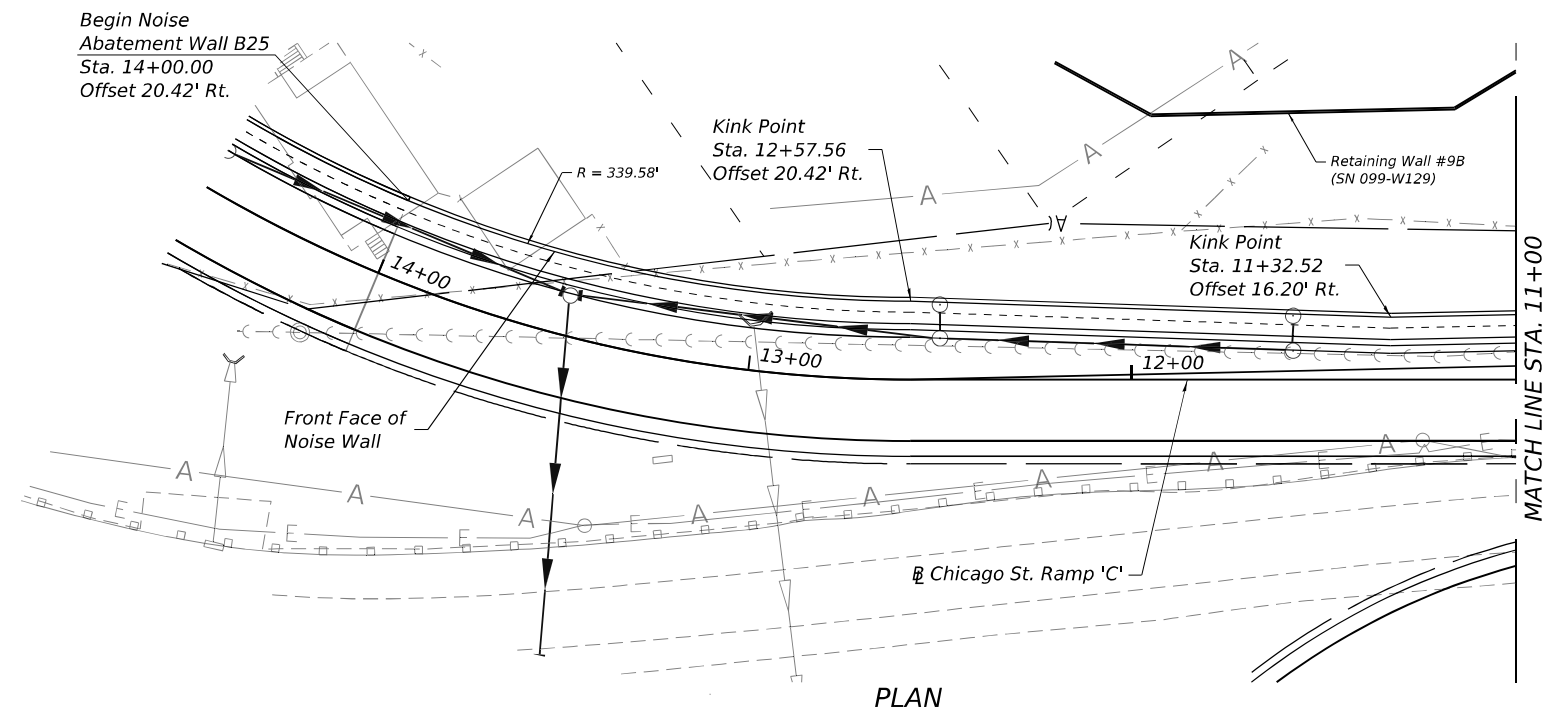
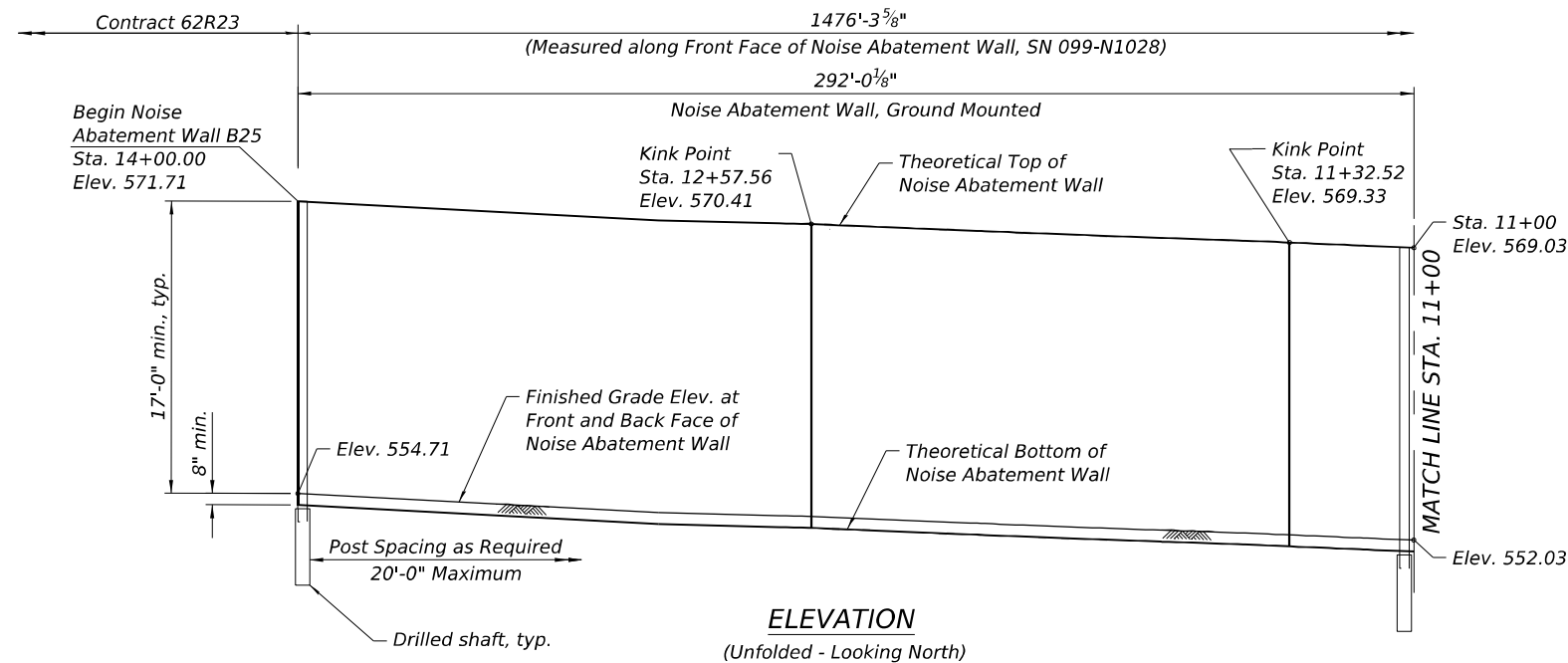


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	CHECKED - RRD	REVISED -
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PLOT DATE = 10/28/2025	CHECKED - RRD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LOGS (SHEET 2 OF 2)
STRUCTURE NO. 099-W040

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	977
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		



CURVE DATA
PR CURVE RAMP C
PI STA = 14+34.93
 $\Delta = 52^\circ 25' 33''$ (RT)
D = 15°54'56"
R = 360.00'
T = 177.24'
L = 329.40'
E = 41.27'
PC STA = 12+57.68
PT STA = 15+87.08

NOTES:

- For General Notes and Total Bill of Material, see Sheet SL-05.
- Stations are measured along and Offsets are measured from Front Face of Noise Abatement Wall to $\mathbb{R}$ Prop. Chicago St. Ramp 'C' and $\mathbb{R}$ Prop. Chicago St.
- Length of ground mounted wall and structure mounted wall is measured along Front Face of Noise Abatement Wall.

INDEX OF SHEETS

SL-01 General Plan and Elevation 1
SL-02 General Plan and Elevation 2
SL-03 General Plan and Elevation 3
SL-04 General Plan and Elevation 4
SL-05 General Notes and Total Bill of Material
SL-06 Wall Details 1
SL-07 Wall Details 2
SL-08 Soil Boring Log

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Struct. Steel, M270 Grade 50, posts)
 $f_y = 36,000$ psi (Struct. Steel, M270 Grade 36, all other structural steel)

PRECAST UNITS

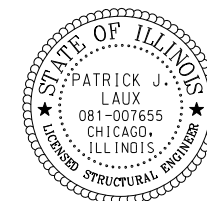
$f'_c = 4,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

DESIGN LOADS

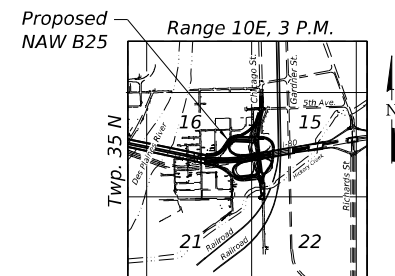
Strength III or V Wind : 35 psf
Service I Wind : 15 psf

LEGEND

---	Proposed ROW line
—E—	Proposed Electric line
—>—>—	Proposed Storm Sewer
---	Existing ROW line
—T—	Existing Telephone line
—A—	Existing Aerial line
—E—	Existing Electric line
—FO—	Existing Fiber Optic line
—G—	Existing Gas line
—C—C—C—C—C—	Existing Sanitary Sewer
—>—>—	Existing Storm Sewer
—W—	Existing Water main
—CTV—	Existing Cable TV line
◆	Soil Boring location



Patrick J. Laux, P.E., S.E.
State of Illinois Lic. No. 081-007655
License Expires 11-30-2026.
This stamp applies to sheets SL-01 thru SL-08



LOCATION SKETCH

GENERAL PLAN AND ELEVATION 1
NOISE ABATEMENT WALL B25 ALONG CHICAGO ST. RAMP C
F.A.I. RTE. 80 - SEC. 2017-057F
WILL COUNTY
STA. 14+00.00 TO STA. 223+46.88
STRUCTURE NO. 099-N1028

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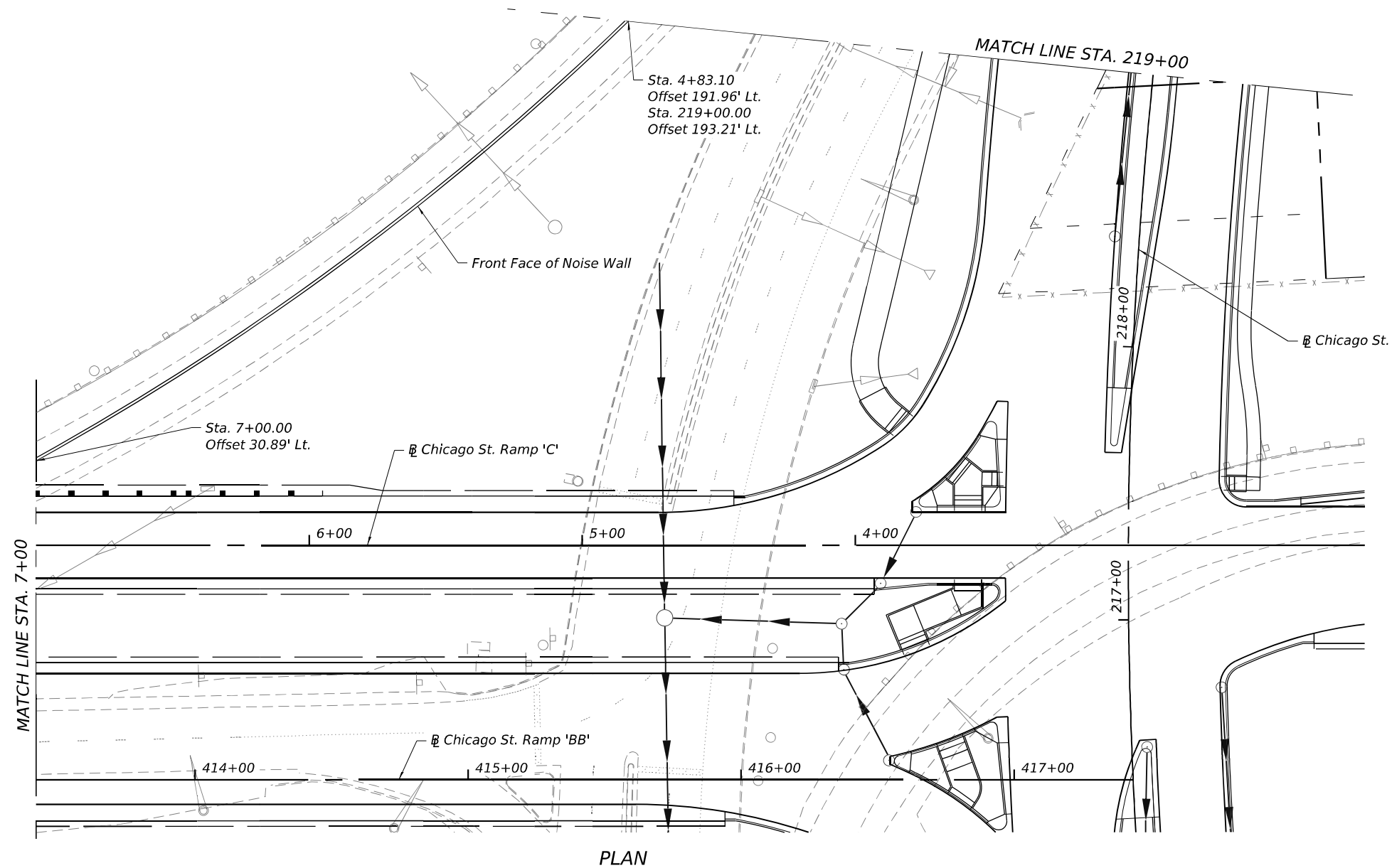
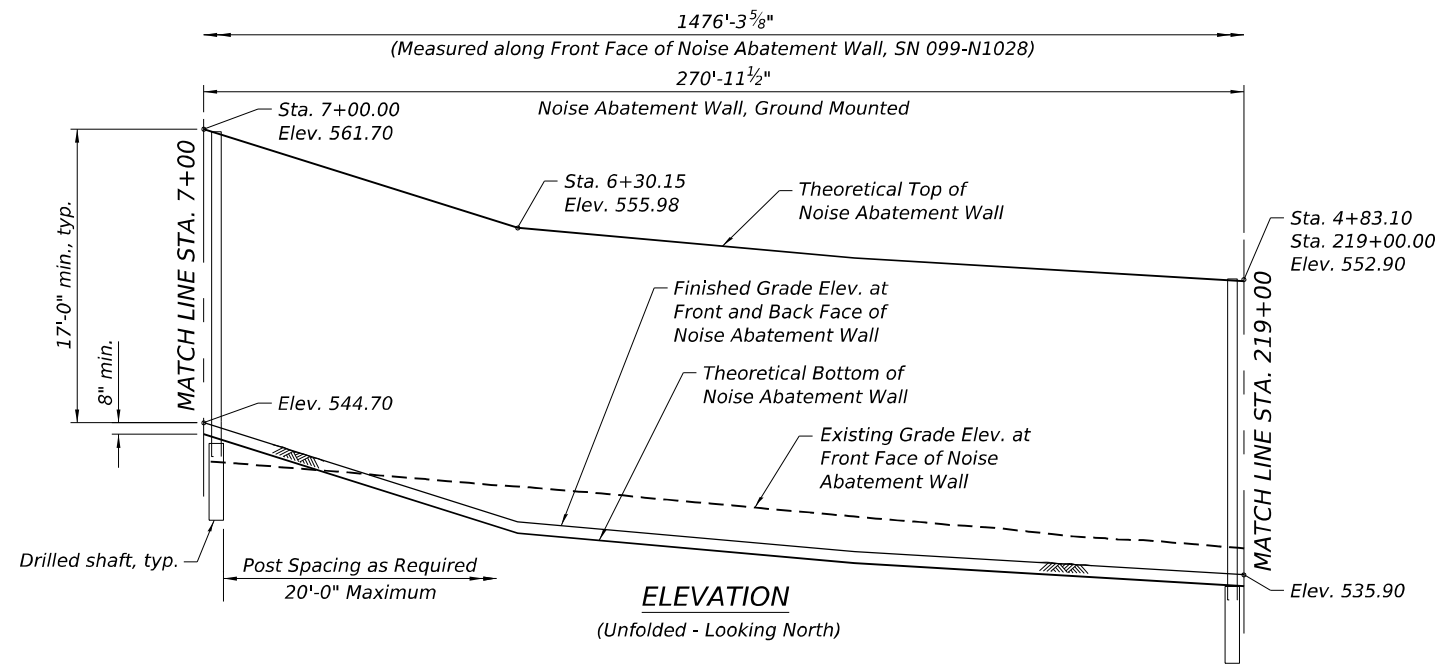
WSP USA Inc.
30 N. LA SALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME = USGM717780	DESIGNED - MIS	REVISED -
	CHECKED - PJL	REVISED -
PLOT SCALE = 50.00' / in.	DRAWN - GM	REVISED -
PLOT DATE = 12/2/2025	CHECKED - MIS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SL-01 OF SL-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	978
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



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WSP USA Inc.
30 N. LA SALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME = USGM717780
DESIGNED - MIS
CHECKED - PJL
PLOT SCALE = 50,000' / in.
DRAWN - GM
PLOT DATE = 12/2/2025

DESIGNED - MIS
CHECKED - PJL
DRAWN - GM
CHECKED - MIS

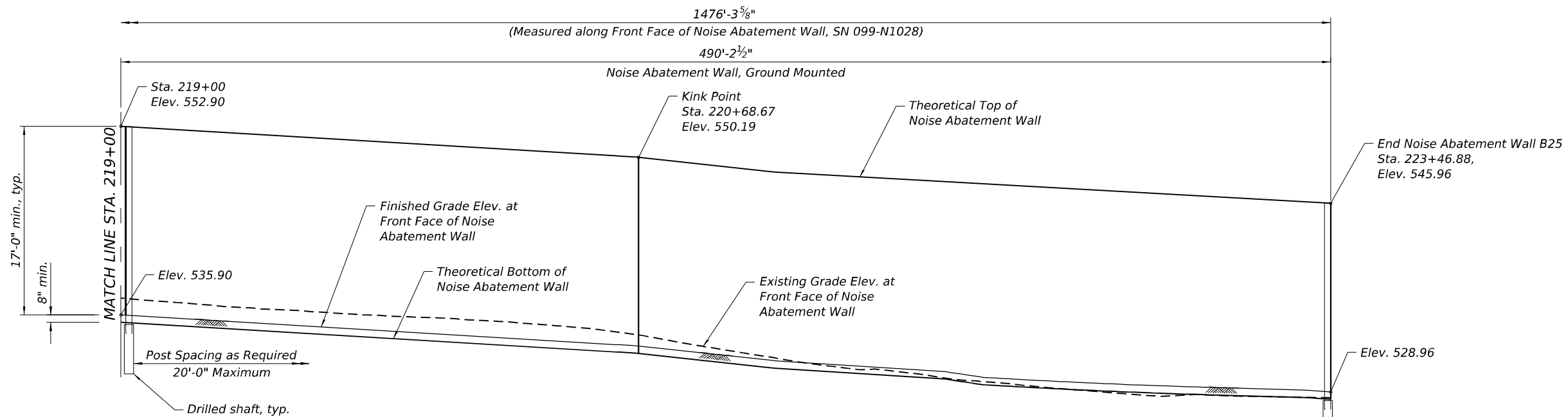
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REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

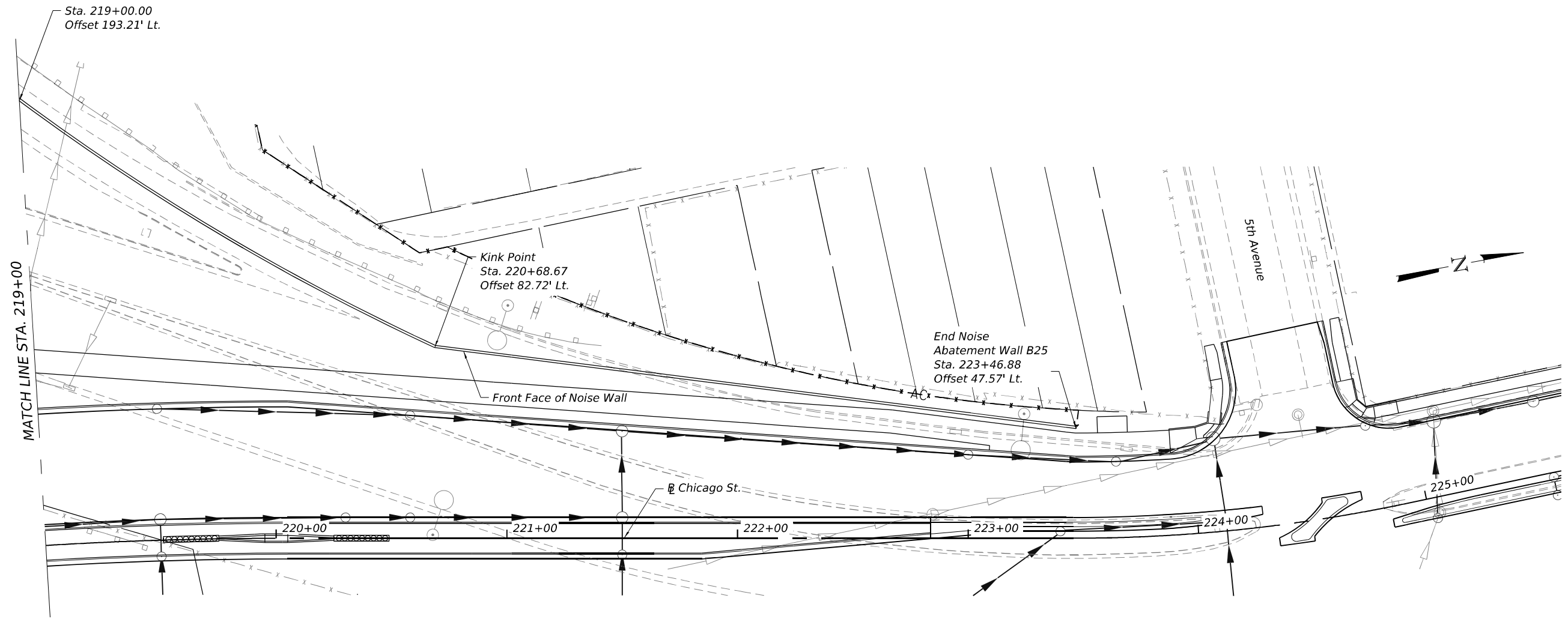
**GENERAL PLAN AND ELEVATION 3
NOISE ABATEMENT WALL B25 - STRUCTURE NO. 099-N1028**

SHEET SL-03 OF SL-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	980
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Unfolded - Looking West)



PLAN

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION 4
NOISE ABATEMENT WALL B25 - STRUCTURE NO. 099-N1028**

SHEET SL-04 OF SL-08 SHEETS

USER NAME = USGM717780	DESIGNED - MIS	REVISED -
CHECKED - PJL	REVIS	
PLOT SCALE = 50,000' / in.	DRAWN - GM	REVISED -
PLOT DATE = 12/2/2025	CHECKED - MIS	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	981
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

1. Theoretical Top of Wall Elev., Theoretical Bottom of Wall Elev., Finished Grade Elev. at Front Face of Wall and Finished Grade Elev. at Back Face of Wall shall be taken as straight lines in the segments between the stations shown in the Noise Wall Data Table.
2. See Noise Abatement Wall, Ground Mounted and Noise Abatement Wall, Structure Mounted Special Provision for material, design, fabrication, construction, erection and other requirements for installation of proposed Noise Abatement Wall.
3. The existing utilities will be adjusted. The Contractor shall field verify location of the existing utilities prior to construction. The Contractor shall take precautions not to damage existing utilities. Any such damage shall be repaired by the Contractor at no additional cost.
4. Noise Abatement Wall drilled shaft foundation diameter, depth and spacing to be determined by the Contractor. See Noise Abatement Wall, Ground Mounted Special Provision to design NAW foundation on fill where soil boring data is not available but the spacing shall not exceed 20 ft.
5. Contractor shall provide Ashlar Stone Finish on both faces of Noise Abatement Wall.
6. The default color of both sides of the NAW panels, posts and other visible elements shall be Federal Standard 30279 - Sand.
7. Access door location shown in the plans is approximate and may be adjusted to accommodate final fire hydrant locations provided by the City of Joliet. This work shall be included as part of the respective Noise Abatement Wall costs.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Noise Abatement Wall, Ground Mounted	Sq. Ft.	22,061
Noise Abatement Wall, Structure Mounted	Sq. Ft.	3,873

NOISE REDUCTION DATA

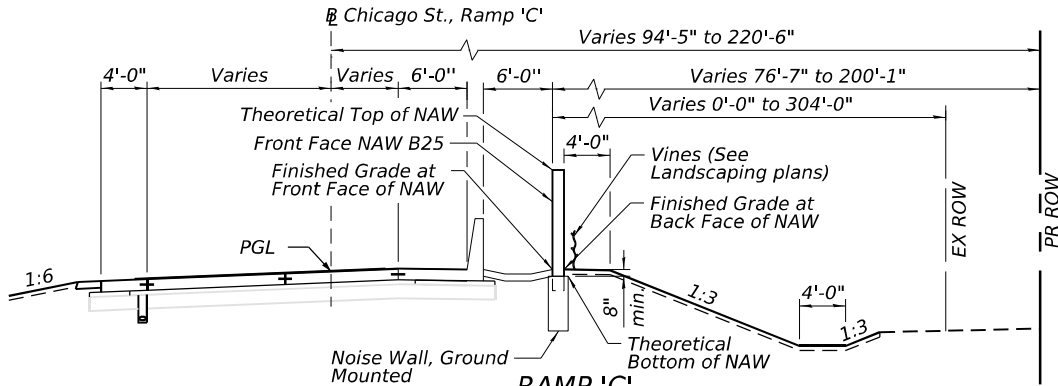
Face	From Sta.	To Sta.	Noise Reduction Coefficient	Comments
Ramp C/Chicago St. face	14+00.00	223+46.88	Reflective	-
Residential face	14+00.00	223+46.88	Reflective	-

UTILITY CROSSING TABLE

Utility	Station	Offset	Elev.	Comments
Exist. Underground Sanitary Sewer	10+04.14	18.94 Rt.	-	-
Exist. Underground Electric	7+41.70	25.42 Rt.	-	-
Exist. Underground Storm Sewer	5+35.94	144.09 Rt.	-	-
Exist. Underground Storm Sewer	219+16.96	178.00 Rt.	-	-

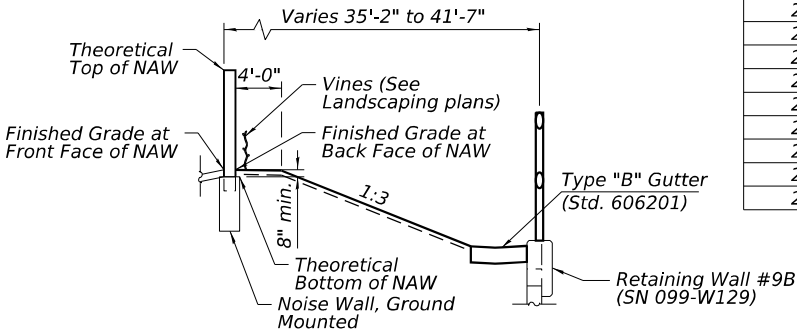
NOISE ABATEMENT WALL B25 (DATA TABLE 1)

Station	Offset (Rt) to Front Face of NAW (ft.)	Theoretical top of NAW Elev.	Chicago St. Ramp 'C'/ Chicago St., Elev.	Finished Grade Elev. at Front Face of NAW	Finished Grade Elev. At Back Face of NAW	Ex. Grade Elev. At Front Face of NAW	Theoretical Bottom of NAW Elev.	Theoretical Wall Height (ft)
14+00.00	20.42	571.71	555.59	554.71	554.71	523.60	554.04	17.67
13+50.00	20.42	571.16	555.03	554.16	554.16	522.50	553.49	17.67
13+00.00	20.42	570.63	554.48	553.63	553.63	521.76	552.96	17.67
12+57.56	20.42	570.41	559.01	553.41	553.41	522.48	552.74	17.67
12+00.00	18.48	569.88	553.37	552.88	552.88	525.61	552.21	17.67
11+50.00	16.79	569.48	552.81	552.48	552.48	526.80	551.81	17.67
11+32.52	16.20	569.33	557.62	552.33	552.33	527.45	551.66	17.67
11+00.00	16.92	569.03	552.26	552.03	552.03	527.59	551.36	17.67
10+55.27	17.92	568.70	556.76	551.70	551.70	526.66	551.03	17.67
10+00.00	19.04	568.29	551.15	551.29	551.29	524.60	550.62	17.67
9+75.00	19.68	568.01	555.86	551.04	551.04	523.93	550.37	17.67
9+50.00	20.43	568.77	550.55	550.77	550.77	524.65	550.10	17.67
8+98.15	22.25	567.13	554.85	550.13	550.13	526.61	550.13	17.00
8+50.00	23.48	566.44	549.08	549.44	549.44	529.35	549.44	17.00
7+90.36	25.42	564.99	553.02	547.99	547.99	538.04	547.99	17.00
7+50.00	25.42	563.92	547.24	546.92	546.92	542.89	546.92	17.00
7+10.00	25.42	562.49	551.40	545.49	545.49	542.68	544.82	17.67
7+00.00	30.89	561.70	546.18	544.70	544.70	542.49	544.03	17.67
6+50.00	60.52	557.63	545.08	540.63	540.63	541.43	539.96	17.67
6+30.15	73.38	555.98	544.64	538.98	538.98	540.98	538.31	17.67
6+00.00	94.19	555.26	543.98	538.26	538.26	540.30	537.59	17.67
5+50.00	132.43	554.09	542.88	537.09	537.09	539.05	536.42	17.67
5+00.00	175.91	553.21	541.78	536.21	536.21	537.86	535.54	17.67
4+83.10/219+00.00	191.96/193.21	552.90	535.08	535.90	535.90	537.43	535.23	17.67
219+50.00	152.46	551.98	534.35	534.98	534.98	536.33	534.31	17.67
220+00.00	117.73	551.14	533.62	534.14	534.14	535.60	533.47	17.67
220+50.00	91.60	550.39	532.89	533.39	533.39	534.70	532.72	17.67
220+68.67	82.72	550.19	532.61	533.19	533.19	534.27	532.52	17.67
221+00.00	78.76	549.34	532.16	532.34	532.34	532.87	531.67	17.67
221+50.00	72.44	548.40	531.43	531.40	531.40	531.17	530.73	17.67
222+00.00	66.12	547.52	530.70	530.52	530.52	530.01	529.85	17.67
222+50.00	59.80	546.78	530.01	529.78	529.78	529.05	529.11	17.67
223+00.00	53.48	546.37	526.51	529.37	529.37	528.66	528.70	17.67
223+46.88	47.57	545.96	529.15	528.96	528.96	528.48	528.29	17.67



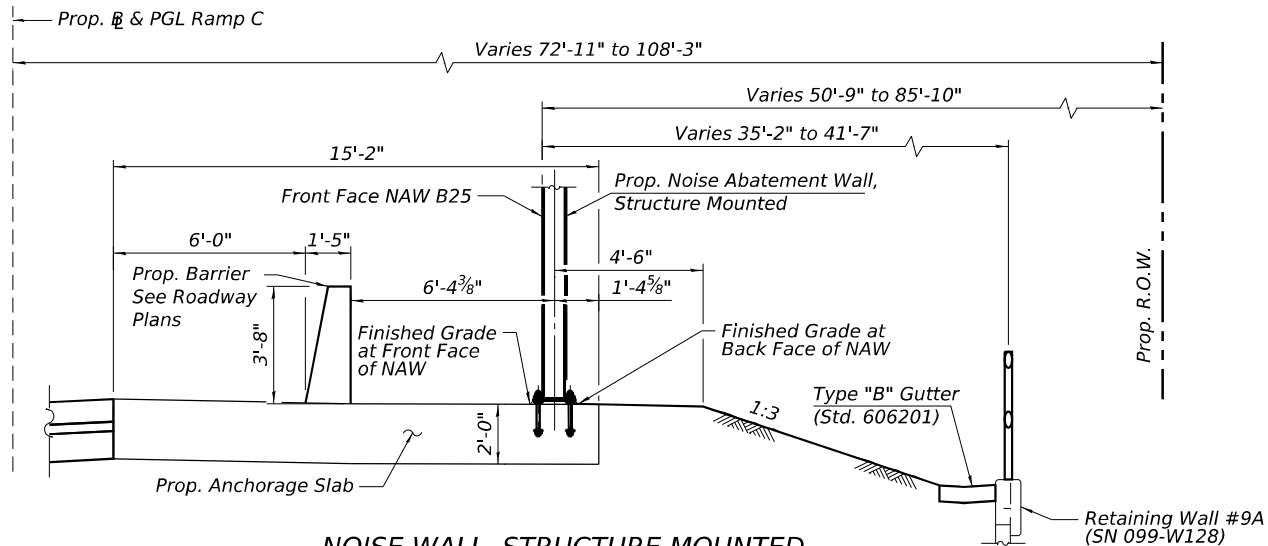
TYPICAL SECTION ALONG NAW B25

Sta. 4+83.10 to Sta. 7+25.00
Sta. 9+40.00 to Sta. 10+87.76
Sta. 12+20.22 to Sta. 14+00.00
(Looking West)



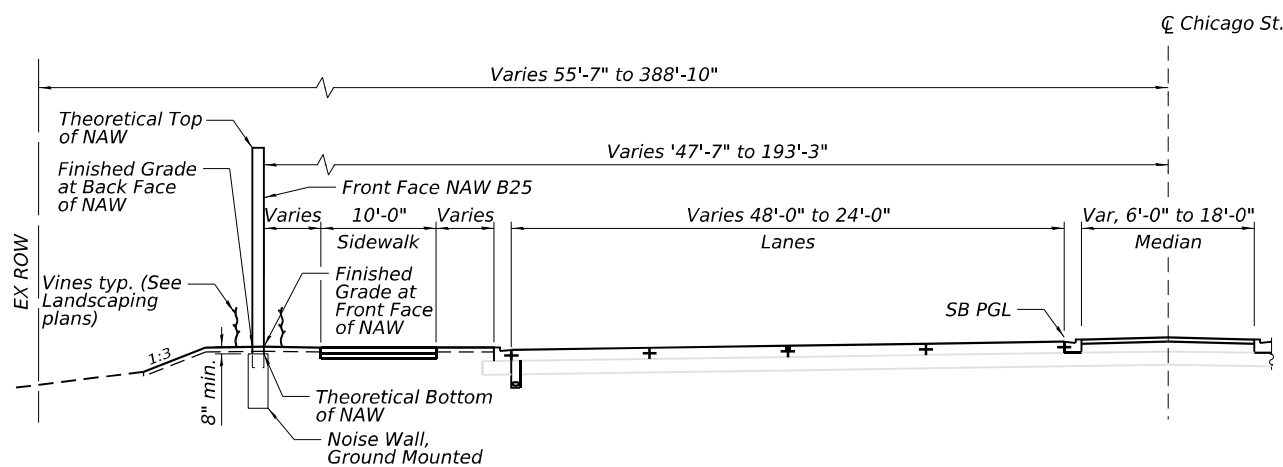
RETAINING WALL DETAIL
TYPICAL SECTION ALONG NAW B25

10+87.76 to 12+20.22
(Looking West)



NOISE WALL, STRUCTURE MOUNTED

Sta. 7+25.00 to Sta. 9+40.00
(Looking West)



PROPOSED CHICAGO STREET TYPICAL SECTION

CHICAGO STREET - STA. 219+00.00 TO STA. 223+46.88
(Looking North)

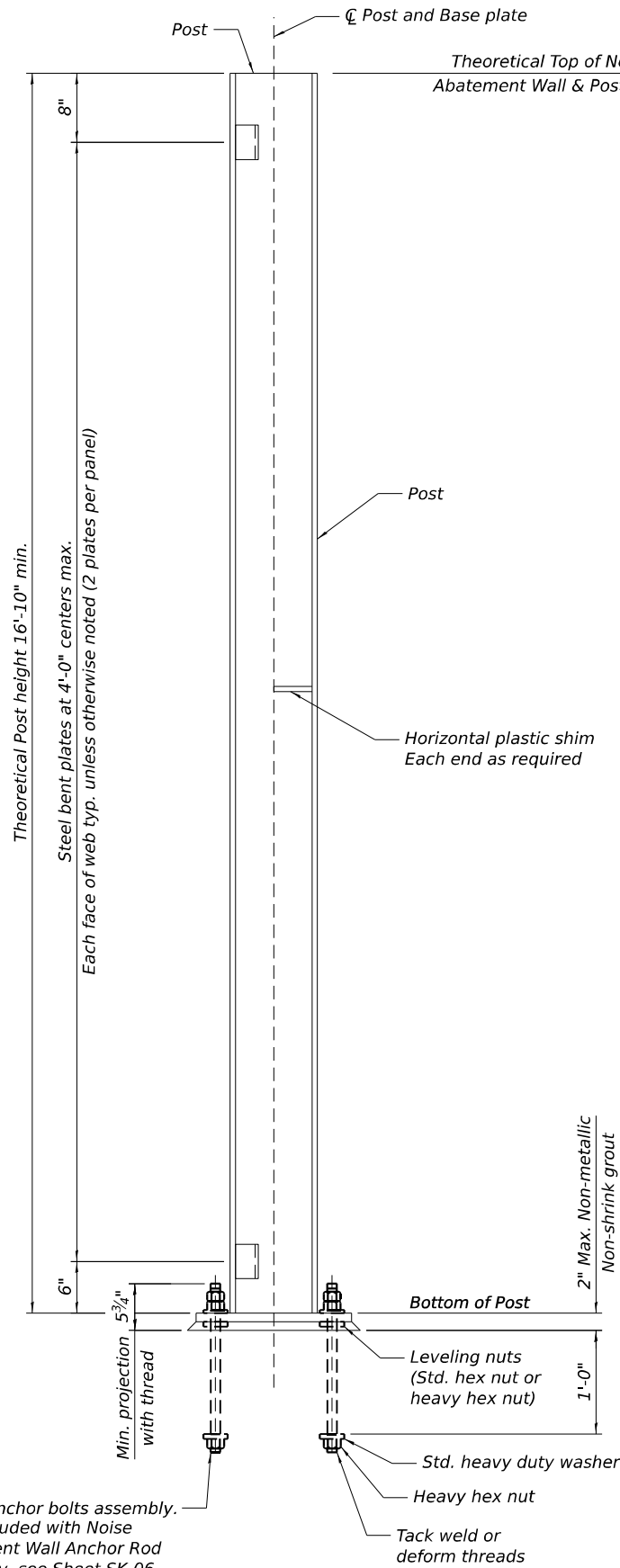
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND TOTAL BILL OF MATERIAL
NOISE ABATEMENT WALL B25 - STRUCTURE NO. 099-1028

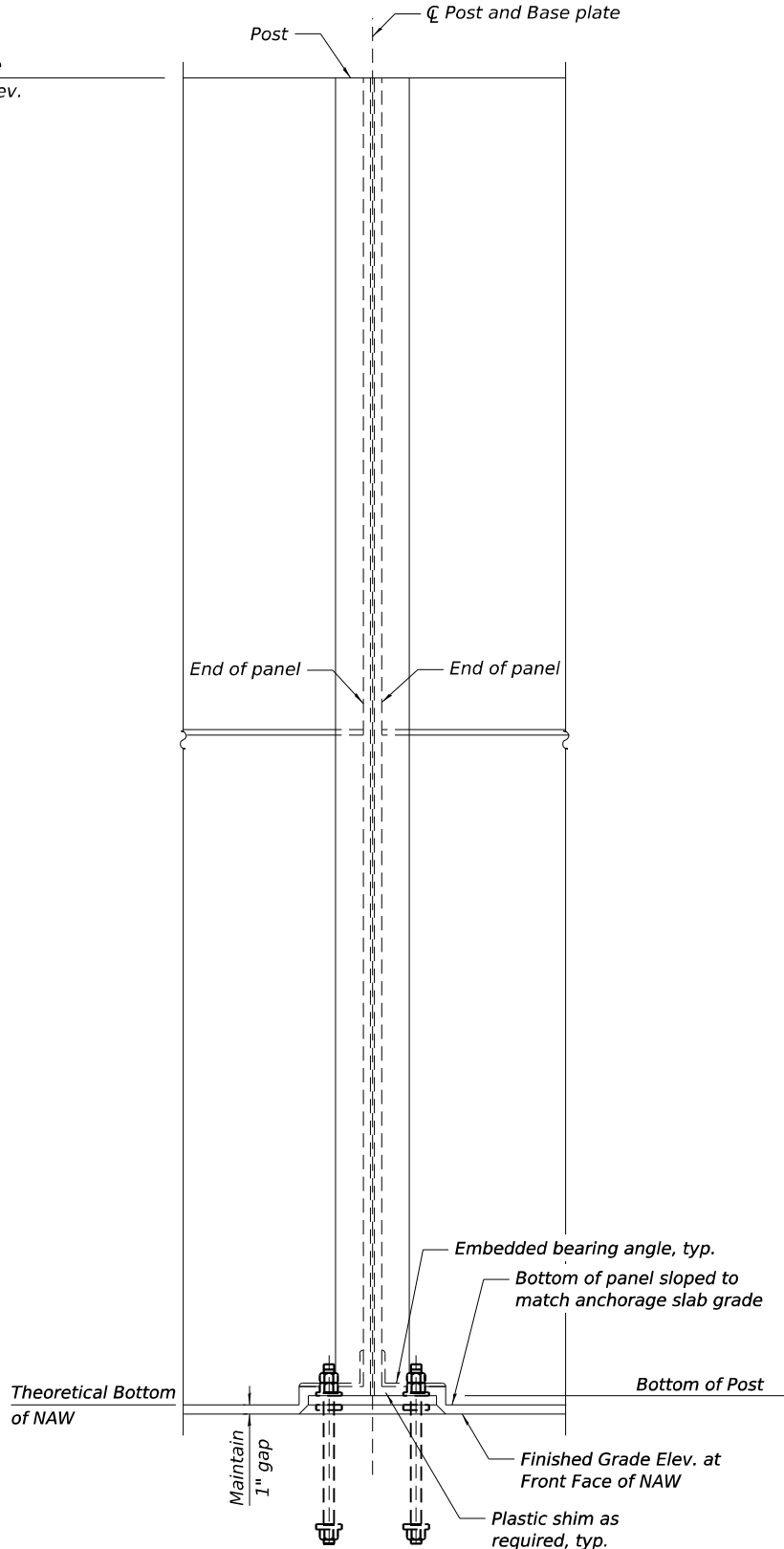
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	982
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

SHEET SL-05 OF SL-08 SHEETS

USER NAME = USGM717780	DESIGNED - MIS	REVISD -
	CHECKED - P/JL	REVISD -
PLOT SCALE = 50:0'"/in.	DRAWN - GM	REVISD -
PLOT DATE = 12/2/2025	CHECKED - MIS	REVISD -



SIDE VIEW

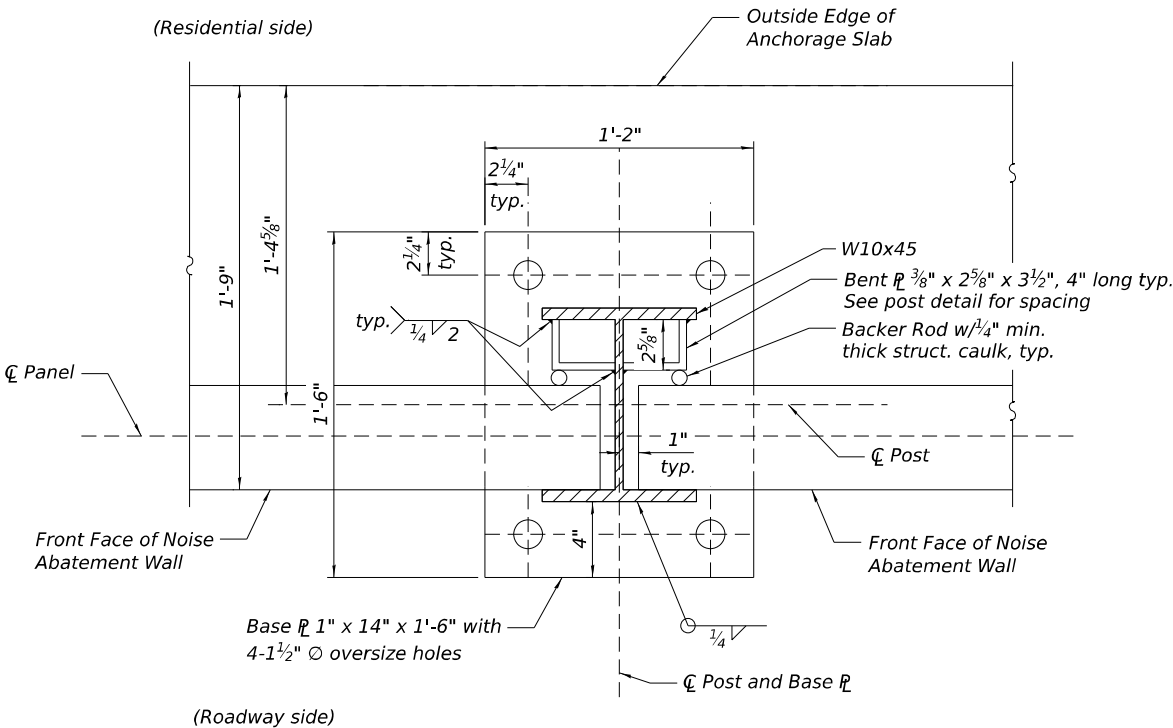


FRONT VIEW

NOISE ABATEMENT WALL, STRUCTURE MOUNTED B25 (DATA TABLE 2)

Post	Station	Offset to Centerline of Post* (ft)	Theoretical top of NAW Elev.	Chicago St. Ramp 'C' Elev.	Finished Grade Elev. at Front Face of NAW	Theoretical Bottom of NAW Elev.	Theoretical Post Height (ft)	Theoretical Wall Height (ft)
P25-01	9+39.32	21.16	567.65	550.41	550.65	550.73	16.83	17
P25-02	9+28.56	21.53	567.52	550.26	550.52	550.60	16.83	17
P25-03	9+17.82	21.90	567.39	550.11	550.39	550.47	16.83	17
P25-04	9+07.09	22.29	567.27	549.96	550.27	550.35	16.83	17
P25-05	8+96.37	22.66	567.12	549.80	550.12	550.20	16.83	17
P25-06	8+85.67	22.89	566.98	549.64	549.98	550.06	16.83	17
P25-07	8+74.97	23.14	566.81	549.47	549.81	549.89	16.83	17
P25-08	8+64.29	23.43	566.66	549.23	549.66	549.74	16.83	17
P25-09	8+53.62	23.73	566.50	549.13	549.50	549.58	16.83	17
P25-10	8+42.96	24.06	566.34	548.95	549.34	549.42	16.83	17
P25-11	8+32.32	24.42	566.10	548.76	549.10	549.18	16.83	17
P25-12	8+21.69	24.79	565.79	548.58	548.79	548.87	16.83	17
P25-13	8+11.07	25.19	565.51	548.39	548.51	548.59	16.83	17
P25-14	8+00.43	25.61	565.23	548.19	548.23	548.31	16.83	17
P25-15	7+88.75	25.79	564.98	547.99	547.98	548.06	16.83	17
P25-16	7+78.25	25.79	564.70	547.80	547.70	547.78	16.83	17
P25-17	7+67.75	25.79	564.43	547.60	547.43	547.51	16.83	17
P25-18	7+57.25	25.79	564.15	547.39	547.15	547.23	16.83	17
P25-19	7+46.75	25.79	563.87	547.17	546.87	546.95	16.83	17
P25-20	7+36.25	25.79	563.58	546.96	546.58	546.66	16.83	17
P25-21	7+25.75	25.79	563.26	546.74	546.26	546.34	16.83	17

*Offsets are taken from Chicago St. Ramp C



BASE PLATE AND POST DETAIL

Note:
Cost of posts, bent plates, backer rod, bearing angles, etc. are included in Noise Abatement Wall, Structure Mounted.

MODEL Default:
FILE NAME: D:\21944.DET B25-06.dgn



WSP USA Inc.
30 N. LA SALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME = USGM717780	DESIGNED - MIS	REVISED -
CHECKED - PJL	REVIS	REVIS
PLOT SCALE = 3.333' / in.	DRAWN - GM	REVISED -
PLOT DATE = 12/2/2025	CHECKED - MIS	REVISED -

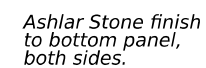
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL DETAILS 1
NOISE ABATEMENT WALL B25 - STRUCTURE NO. 099-N1028

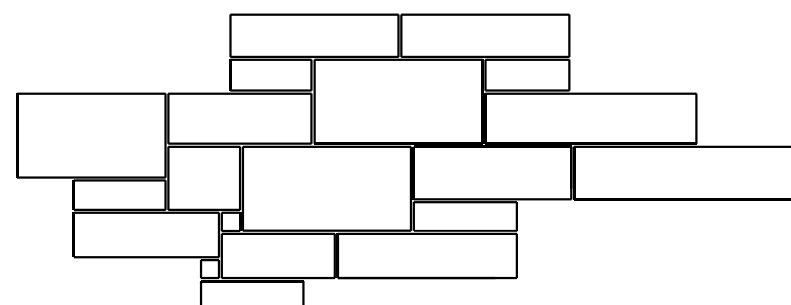
SHEET SL-06 OF SL-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	983
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

Each side of the noise wall panels shall have a rolled ashlar stone finish. The finish shall have a 1 1/2" relief for noise abatement wall, ground mounted and a 3/4" relief for noise abatement wall, structure mounted. The color of both sides of the panels, plain band, posts and all other visible elements shall follow the special provisions.

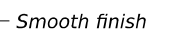


— 8" minimum cover
from ground line.



Stone Pattern Sizes:
3" x 3" - 14" x 28"

ENLARGED PATTERN DETAIL



1 1/2" max
liner relief
See note.

1 1/2" max
liner relief
See note.

ENLARGED CAP DETAIL

Page 1 of 1

Date 9/15/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 9A - Ramp C	LOGGED BY	KA
--------------	------	--------------------	--------------------------------	------------------	----

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG	Latitude 41.5130955, Longitude -88.0833101	
		DRILLING METHOD	Diedrich D-50	Auto
			HSA	
			HAMMER TYPE	
			HAMMER EFF (%)	96

STRUCT. NO. 099-W120	D	B	U	M	Surface Water Elev. N/A ft	D	B	U	M
Station	E	L	C	O	Stream Bed Elev. N/A ft	E	L	C	O
	P	O	S	I		P	O	S	I
	T	W		S		T	W		S
	H	S	Qu	T		H	S	Qu	T
BORING NO. R/WB-97					Groundwater Elev.: Dry ft				
Station 7+62.5329					First Encounter N/A ft				
Offset 13.11 ft RT					Upon Completion N/A ft				
Ground Surface Elev. 543.52 ft	(ft)	(6")	(tsf)	(%)	After N/A ft	(ft)	(6")	(tsf)	(%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 1 of 1

Date 9/15/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 9A - Ramp C	LOGGED BY	KA
--------------	------	--------------------	--------------------------------	------------------	----

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG	Latitude 41.5131277, Longitude -88.0831292	
		DRILLING METHOD	Diedrich D-50	Auto
			HSA	
			HAMMER TYPE	
			HAMMER EFF (%)	96

STRUCT. NO. 099-W128	DEPTH	BLOW COUNT	U C S	M O I S T	Surface Water Elev. N/A ft	DEPTH	BLOW COUNT	U C S	M O I S T
Station					Stream Bed Elev. N/A ft				
BORING NO. R/WB-98					Groundwater Elev.: Dry ft				
Station 7+13.2630					Upon Completion N/A ft				
Offset 0.20 FT L					After Hrs. N/A ft				
Ground Surface Elev. 542.24 ft	(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

INDEX OF SHEETS

SM-01 General Plan and Elevation 1
SM-02 General Plan and Elevation 2
SM-03 General Plan and Elevation 3
SM-04 General Notes and Total Bill of Material
SM-05 Wall Details 1
SM-06 Wall Details 2
SM-07 Soil Boring Log

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

$f_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Struct. Steel, M270 Grade 50, posts)
 $f_y = 36,000$ psi (Struct. Steel, M270 Grade 36, all other structural steel)

PRECAST UNITS

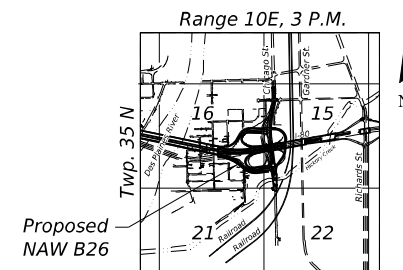
$f_c = 4,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

DESIGN LOADS

Strength III or V Wind : 35 psf
Service I Wind : 15 psf
Unfactored Design Active Earth Pressure:
55 pcf equivalent fluid pressure
Minimum Live load Surcharge Pressure:
2 ft. additional earth pressure

LEGEND

---	Proposed ROW line
—E—	Proposed Electric line
—>—	Proposed Storm Sewer
---	Existing ROW line
—T—	Existing Telephone line
—A—	Existing Aerial line
—E—	Existing Electric line
—FO—	Existing Fiber Optic line
—IG—	Existing Gas line
—C—C—C—C—C—C—	Existing Sanitary Sewer
—>—>—	Existing Storm Sewer
—W—	Existing Water main
—CTV—	Existing Cable TV line
⊕	Soil Boring location



LOCATION SKETCH

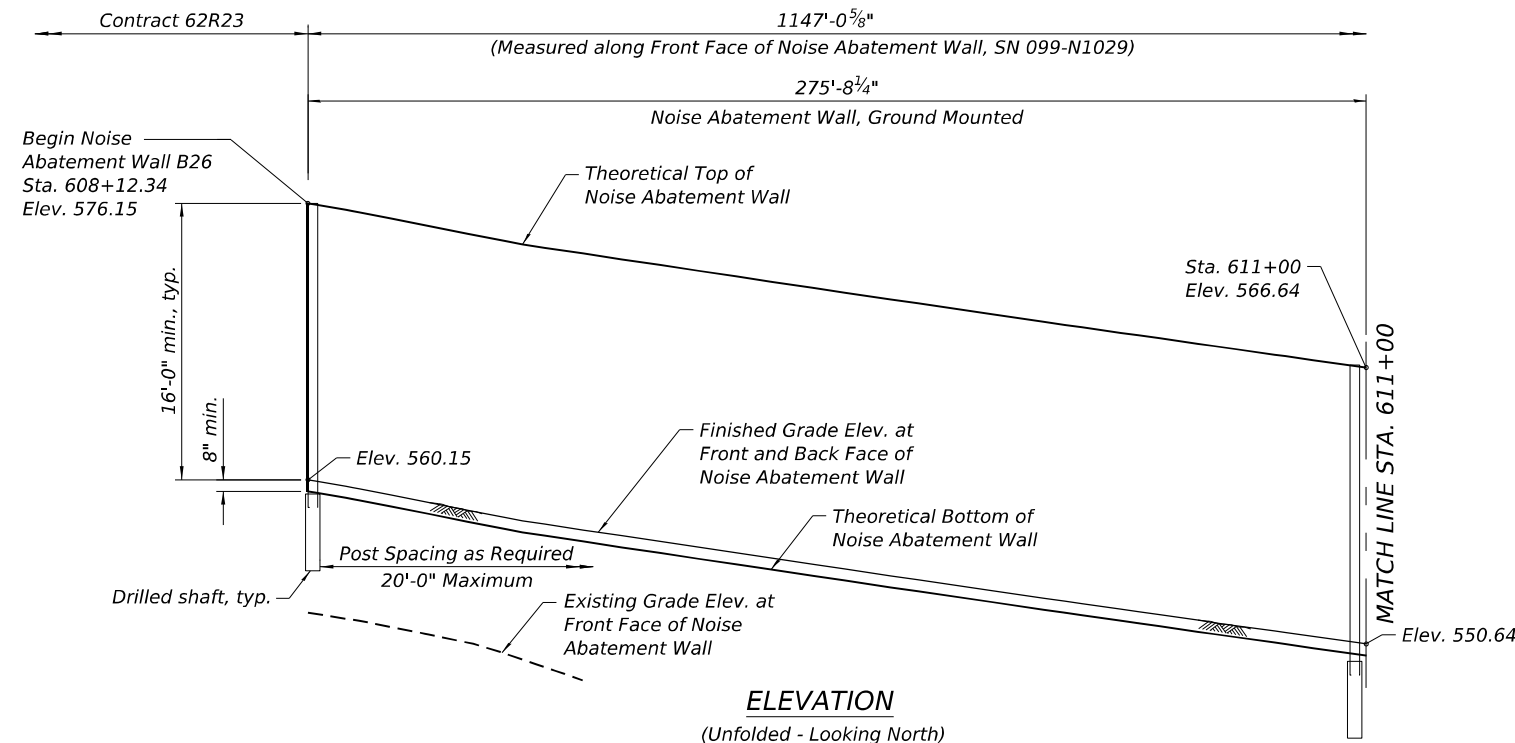
GENERAL PLAN AND ELEVATION 1
NOISE ABATEMENT WALL B26 ALONG CHICAGO ST. RAMP A

F.A.I. RTE. 80 - SEC. 2017-057F

WILL COUNTY

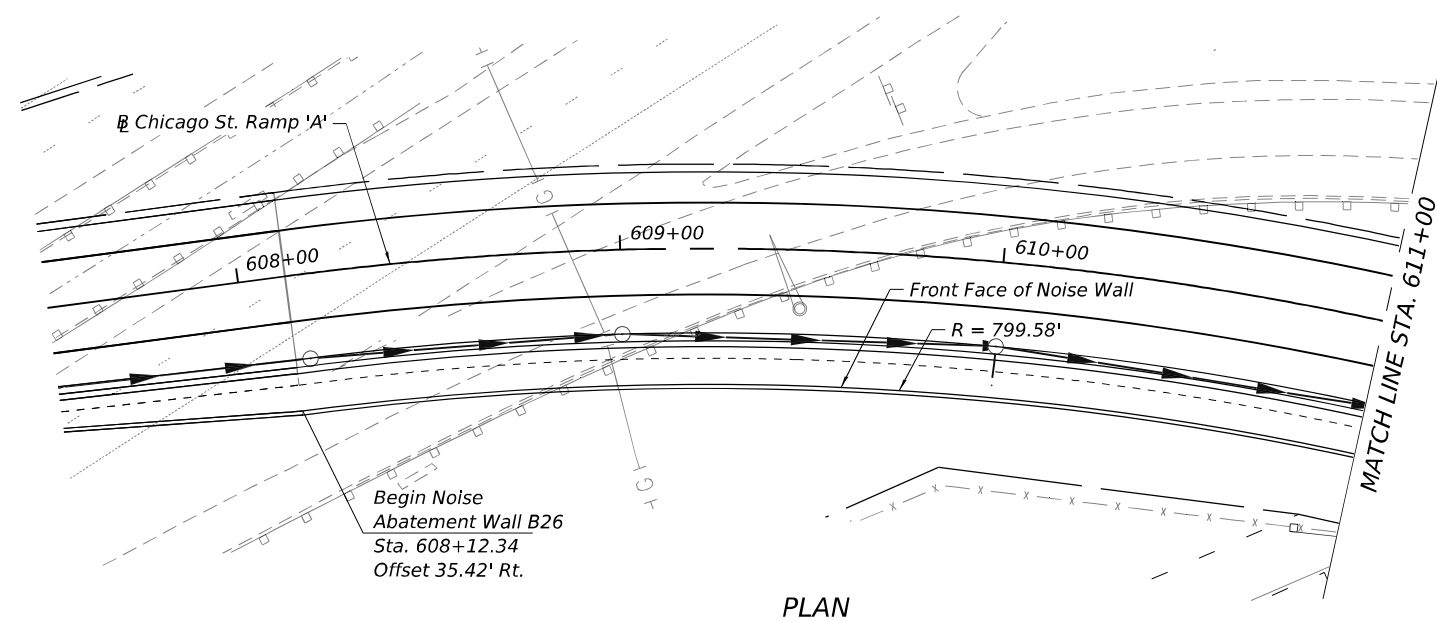
STA. 608+12.34 TO STA. 619+47.92

STRUCTURE NO. 099-N1029



ELEVATION

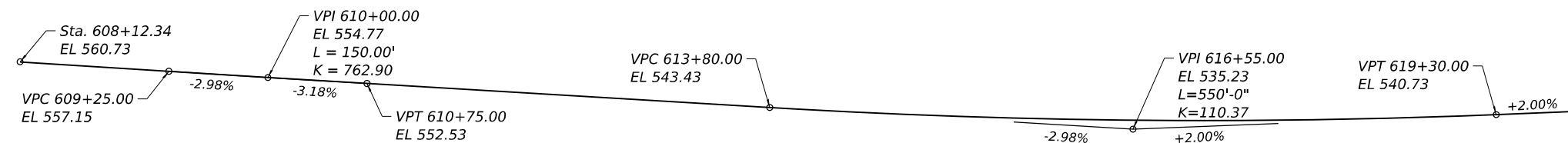
(Unfolded - Looking North)



PLAN

CURVE DATA

PR CURVE RAMP A
PI STA = 609+86.44
 $\Delta = 23^\circ 33' 18''$ (RT)
 $D = 06^\circ 51' 42''$
 $R = 835.00'$
 $T = 174.10'$
 $L = 343.28$
 $E = 17.96'$
PC STA = 608+12.34
PT STA = 611+55.62



PROFILE GRADE

(Along Proposed Chicago St. Ramp 'A')

NOTES:

- For General Notes and Total Bill of Material, see Sheet SM-04.
- Stations are measured along and Offsets are measured from Front Face of Noise Abatement Wall to Prop. Chicago St. Ramp 'A'.
- Length of ground mounted wall and structure mounted wall is measured along Front Face of Noise Abatement Wall.



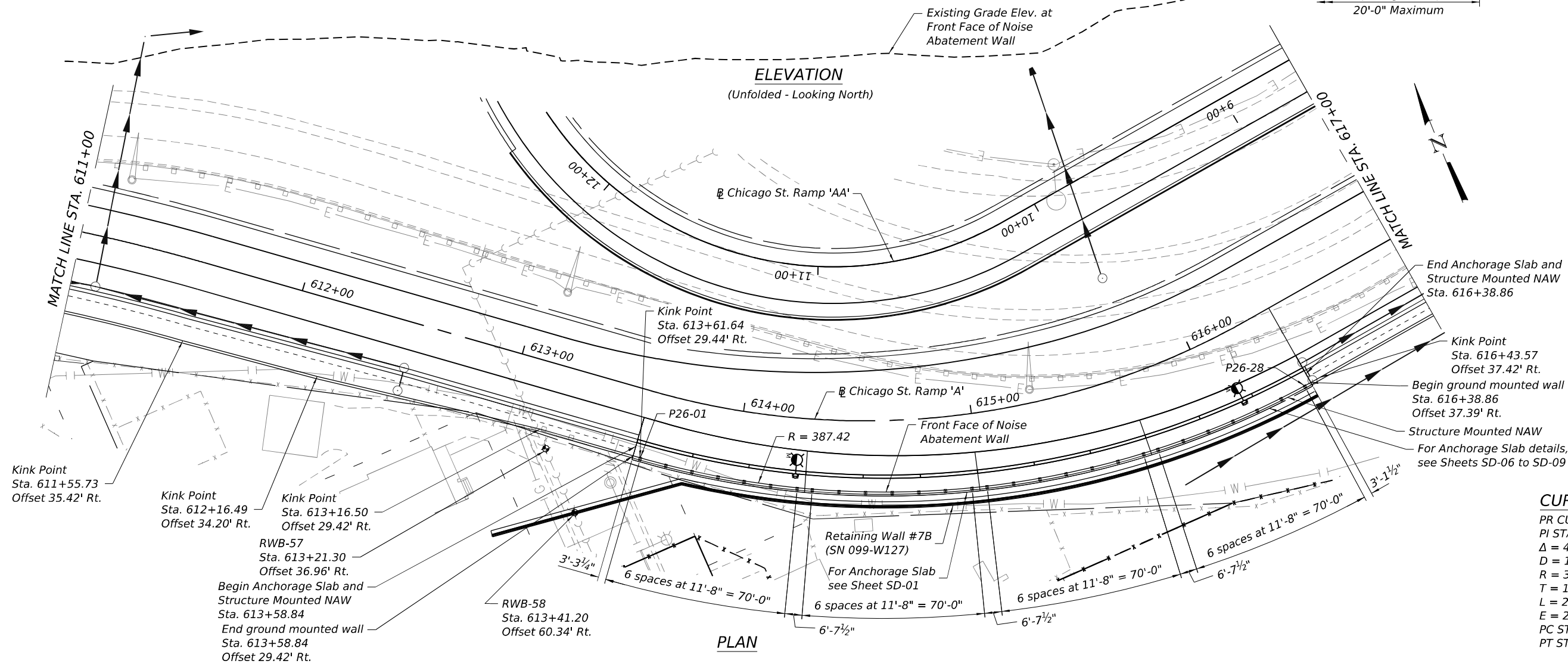
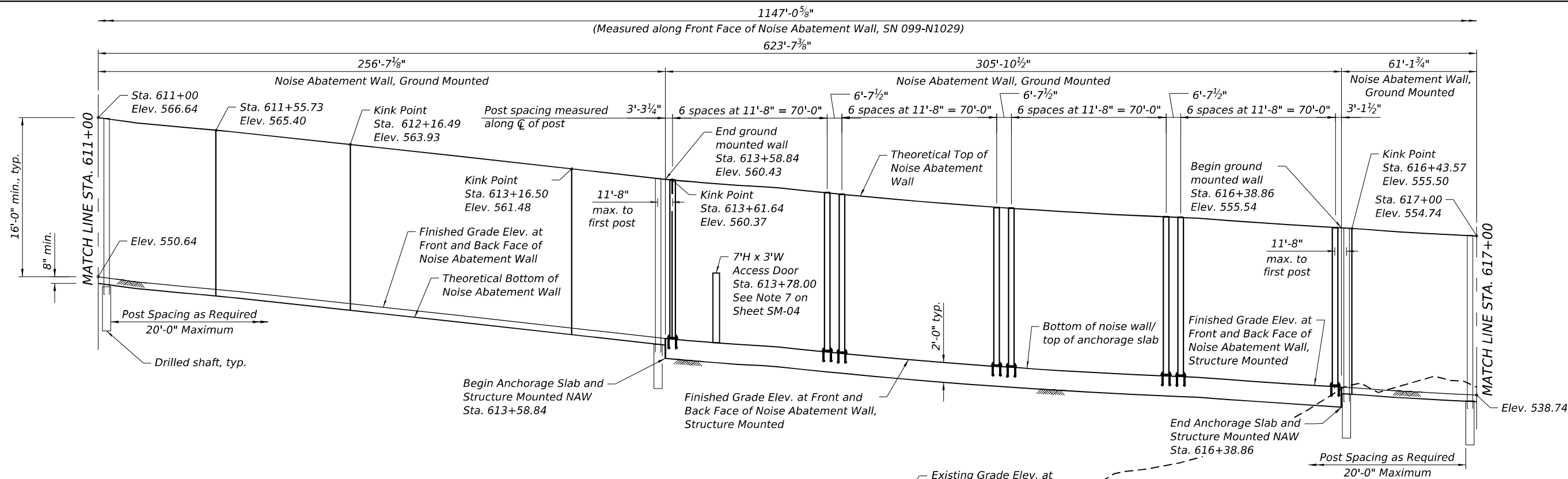
Patrick J. Laux, P.E., S.E.
State of Illinois Lic. No. 081-007655
License Expires 11-30-2026.
This stamp applies to sheets SM-01 thru SM-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SM-01 OF SM-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	986
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

USER NAME = USGM717780	DESIGNED - MIS	REVISED -
CHECKED - PJL	REVIS	REVIS
PLOT SCALE = 50,000' / in.	DRAWN - GM	REVISED -
PLOT DATE = 12/2/2025	CHECKED - MIS	REVISED -



CURVE DATA

PR CURVE RAMP A
 PI STA = 615+00.77
 $\Delta = 45^\circ 29' 03''$ (LT)
 $D = 16^\circ 51' 06''$
 $R = 340.00'$
 $T = 142.52'$
 $L = 269.91'$
 $E = 28.66'$
 PC STA = 613+58.25
 PT STA = 616+28.16

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

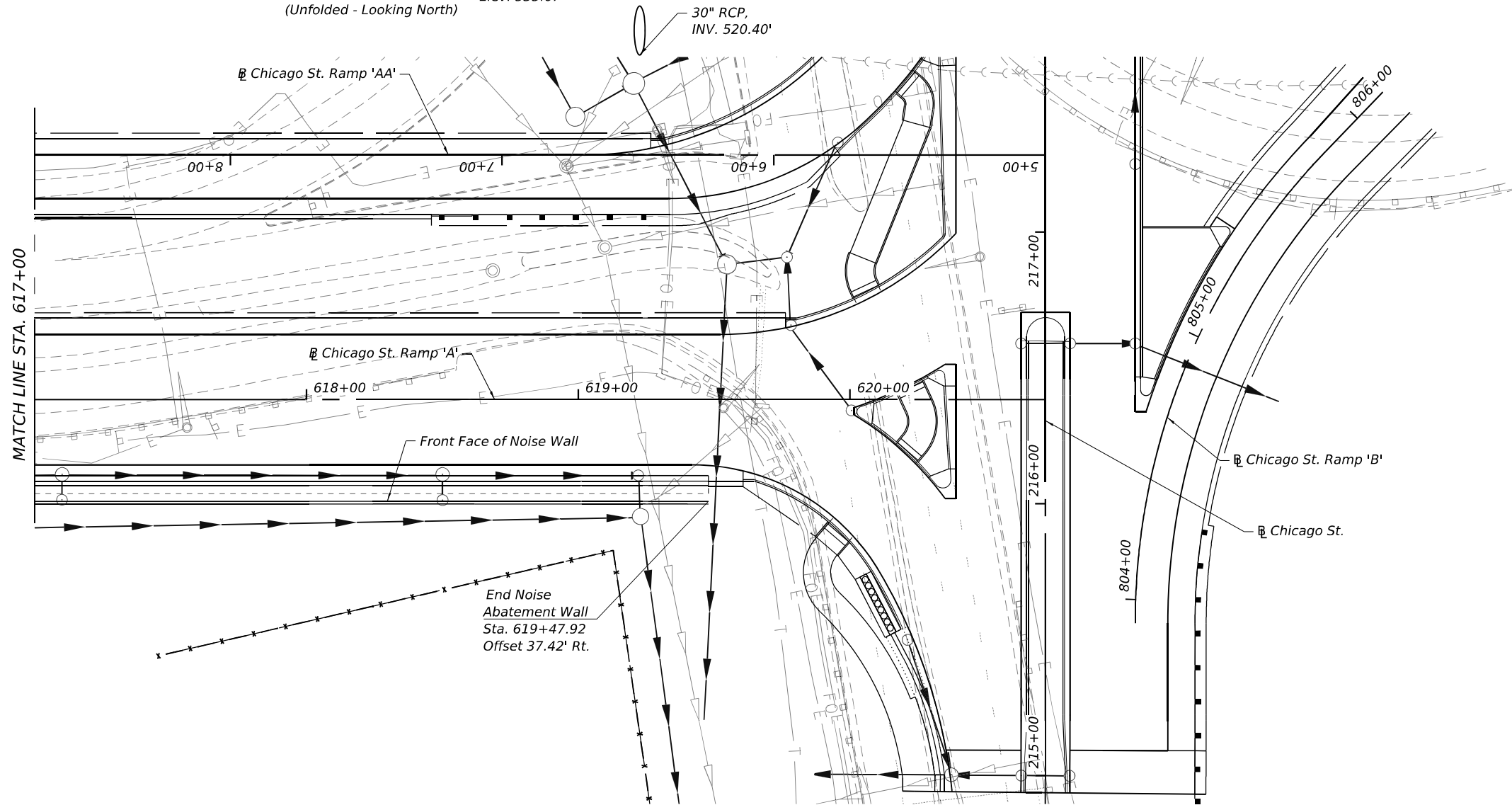
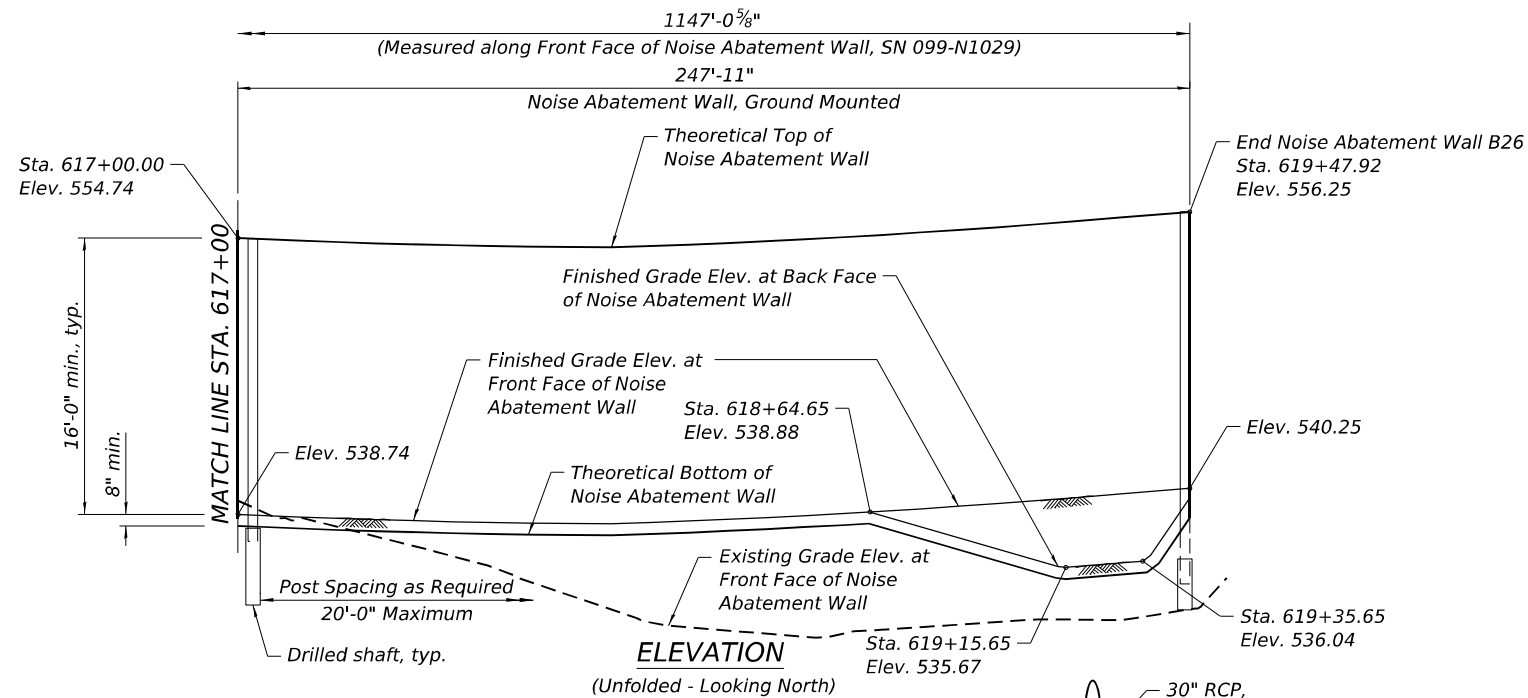
GENERAL PLAN AND ELEVATION 2
 NOISE ABATEMENT WALL B26 - STRUCTURE NO. 099-N1029

SHEET SM-02 OF SM-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	987
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

USER NAME	= USGM717780
PLOT SCALE	= 50,000' / in.
PLOT DATE	= 12/2/2025

DESIGNED	- MIS	REVISED	-
CHECKED	- PJL	REVISED	-
DRAWN	- GM	REVISED	-
CHECKED	- MIS	REVISED	-



PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION 3
NOISE ABATEMENT WALL B26 - STRUCTURE NO. 099-N1029

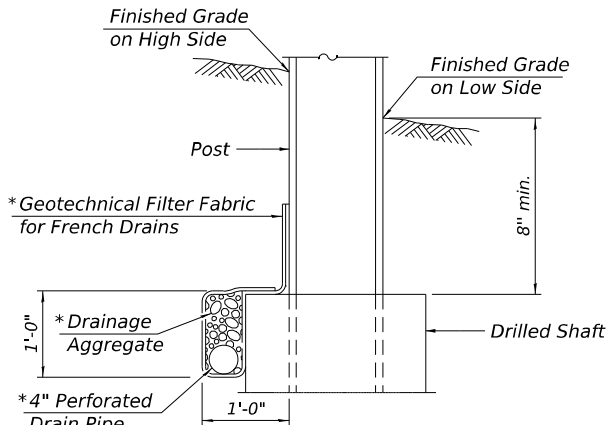
SHEET SM-03 OF SM-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	988
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

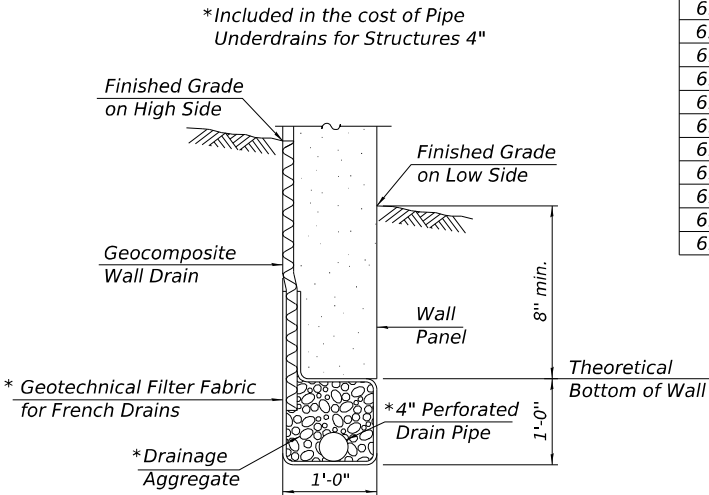
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	CHECKED - PJL	REVISED -
PLOT SCALE = 50:0 " = 1" / in.	DRAWN - GM	REVISED -
PLOT DATE = 12/2/2025	CHECKED - MIS	REVISED -

GENERAL NOTES:

1. Theoretical Top of Wall Elev., Theoretical Bottom of Wall Elev., Finished Grade Elev. at Front Face of Wall and Finished Grade Elev. at Back Face of Wall shall be taken as straight lines in the segments between the stations shown in the Noise Wall Data Table.
2. See Noise Abatement Wall, Ground Mounted and Noise Abatement Wall, Structure Mounted Special Provision for material, design, fabrication, construction, erection and other requirements for installation of proposed Noise Abatement Wall.
3. The existing utilities will be adjusted. The Contractor shall field verify location of the existing utilities prior to construction. The Contractor shall take precautions not to damage existing utilities. Any such damage shall be repaired by the Contractor at no additional cost.
4. Noise Abatement Wall drilled shaft foundation diameter, depth and spacing to be determined by the Contractor. See Noise Abatement Wall, Ground Mounted Special Provision to design NAW foundation on fill where soil boring data is not available but the spacing shall not exceed 20 ft.
5. Contractor shall provide Ashlar Stone Finish on both faces of Noise Abatement Wall.
6. The default color of both sides of the NAW panels, posts and other visible elements shall be Federal Standard 30279 - Sand.
7. Access door location shown in the plans is approximate and may be adjusted to accommodate final fire hydrant locations provided by the City of Joliet. This work shall be included as part of the respective Noise Abatement Wall costs.



PIPE UNDERDRAIN DETAIL
AT DRILLED SHAFTS



PIPE UNDERDRAIN DETAIL
BETWEEN DRILLED SHAFTS

NOISE ABATEMENT WALL B26 (DATA TABLE 1)

Station	Offset (Rt) to Front Face of NAW (ft.)	Theoretical top of NAW Elev.	Chicago St. Ramp 'A' Elev.	Finished Grade Elev. at Front Face of NAW	Finished Grade Elev. At Back Face of NAW	Ex. Grade Elev. At Front Face of NAW	Theoretical Bottom of NAW Elev.	Theoretical Wall Height (ft)	Final Retained Height (ft)
608+12.34	35.42	576.15	560.73	560.15	560.15	553.12	559.48	16.67	-
608+50.00	35.42	574.63	559.54	558.63	558.63	551.64	557.96	16.67	-
609+00.00	35.42	572.84	557.95	556.84	556.84	547.32	556.17	16.67	-
609+50.00	35.42	571.25	556.36	555.25	555.25	537.61	554.58	16.67	-
610+00.00	35.42	569.68	554.80	553.68	553.68	529.57	553.01	16.67	-
610+50.00	35.42	568.15	553.28	552.15	552.15	526.13	551.48	16.67	-
611+00.00	35.42	566.64	551.78	550.64	550.64	525.98	549.97	16.67	-
611+55.73	35.42	565.40	550.13	549.40	549.40	527.20	548.73	16.67	-
612+16.49	34.20	563.93	548.31	547.93	547.93	528.32	547.26	16.67	-
612+50.00	32.60	563.12	547.31	547.12	547.12	528.12	546.45	16.67	-
613+16.50	29.42	561.48	545.32	545.48	545.48	526.45	544.81	16.67	-
613+61.64	29.44	560.37	543.97	544.37	544.37	525.81	543.37	16.00	-
614+00.00	29.96	559.67	542.85	543.67	543.67	526.12	543.67	16.00	-
614+50.00	30.95	558.53	541.56	542.53	542.53	526.71	542.53	16.00	-
615+00.00	32.30	557.55	540.50	541.55	541.55	526.56	541.55	16.00	-
615+50.00	33.96	556.83	539.67	540.83	540.83	531.12	540.83	16.00	-
616+00.00	35.90	556.15	539.06	540.15	540.15	534.10	540.15	16.00	-
616+43.57	37.42	555.50	538.71	539.50	539.50	539.74	538.83	16.67	-
617+00.00	37.42	554.74	538.52	538.74	538.74	539.54	538.07	16.67	-
617+50.00	37.42	554.35	538.59	538.35	538.35	536.65	537.68	16.67	-
618+00.00	37.42	554.20	538.89	538.20	538.20	533.01	537.53	16.67	-
618+50.00	37.42	554.70	539.42	538.70	538.70	531.60	538.03	16.67	-
618+64.65	37.42	554.88	539.62	538.88	538.88	532.03	538.21	16.67	-
619+00.00	37.42	555.40	540.17	539.40	536.60	532.51	535.93	19.47	2.80
619+15.65	37.42	555.67	540.45	539.67	535.67	532.67	535.00	20.67	4.00
619+35.65	37.42	556.04	540.84	540.04	536.04	532.81	535.46	20.67	4.00
619+47.92	37.42	556.25	541.08	540.25	540.25	533.27	539.58	16.67	-

UTILITY CROSSING TABLE

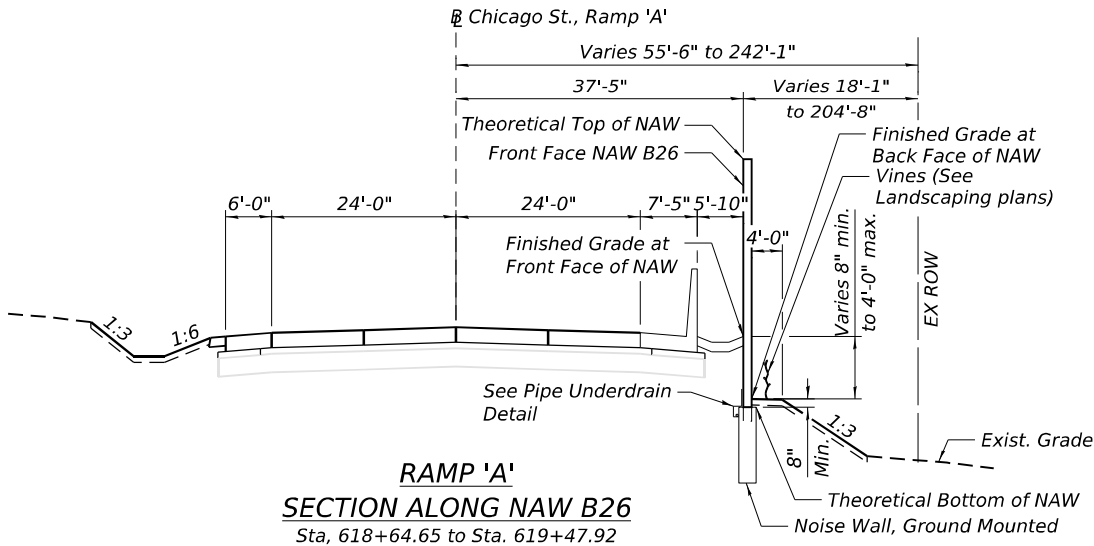
Utility	Station	Offset	Elev.	Comments
Exist. Underground Gasline	608+98.35	35.42 Rt.	-	-
Exist. Underground Water Line	612+08.37	34.36 Rt.	-	-
Exist. Underground Water Line	613+02.10	30.11 Rt.	-	-
Exist. Underground Gasline	613+05.19	29.96 Rt.	-	-
Exist. Underground Sanitary Sewer	613+14.25	29.53 Rt.	-	-
Exist. Underground Water Line	613+50.70	29.53 Rt.	-	-
Exist. Underground Water Line	614+01.55	29.98 Rt.	-	-
Prop. Underground Storm Sewer	619+22.62	37.42 Rt.	520.40	-
Exist. Underground Storm Sewer	619+29.35	37.42 Rt.	-	-

NOISE REDUCTION DATA

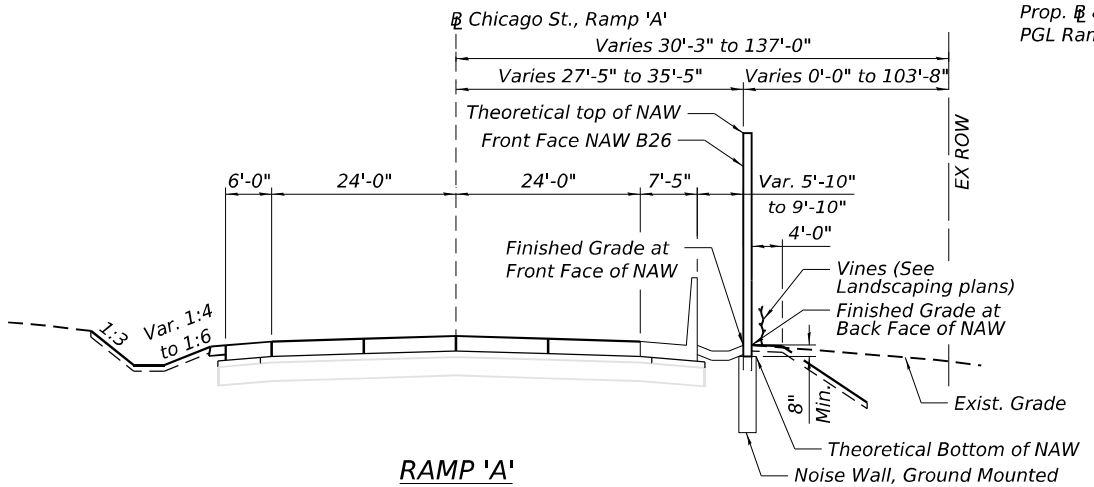
Face	From Sta.	To Sta.	Noise Reduction Coefficient	Comments
Ramp 'A' face	608+12.34	619+47.92	Reflective	-
Residential face	608+12.34	619+47.92	Reflective	-

TOTAL BILL OF MATERIAL

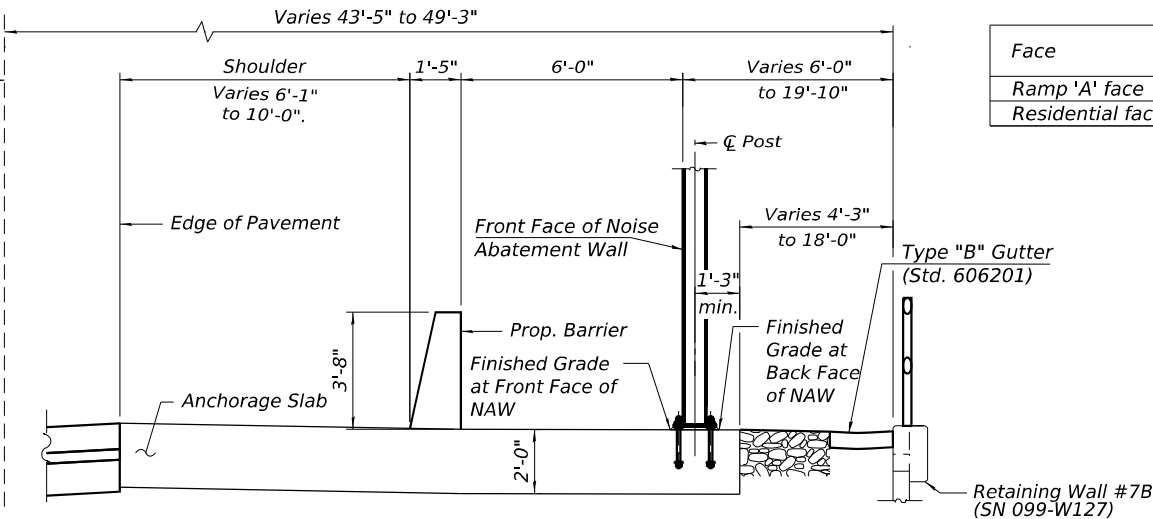
ITEM	UNIT	TOTAL
Noise Abatement Wall, Ground Mounted	Sq. Ft.	14,196
Noise Abatement Wall, Structure Mounted	Sq. Ft.	4,894
Geocomposite Wall Drain	Sq. Yd.	42
Pipe Underdrains for Structures 4"	Foot	84



SECTION ALONG NAW B26
Sta. 618+64.65 to Sta. 619+47.92



SECTION ALONG NAW B26
Sta. 608+12.34 to Sta. 613+58.84
Sta. 616+38.86 to Sta. 618+64.65



NOISE WALL, STRUCTURE MOUNTED
Sta. 613+58.84 to Sta. 616+38.86

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND TOTAL BILL OF MATERIAL
NOISE ABATEMENT WALL B26 - STRUCTURE NO. 099-N1029

SHEET SM-04 OF SM-07 SHEETS

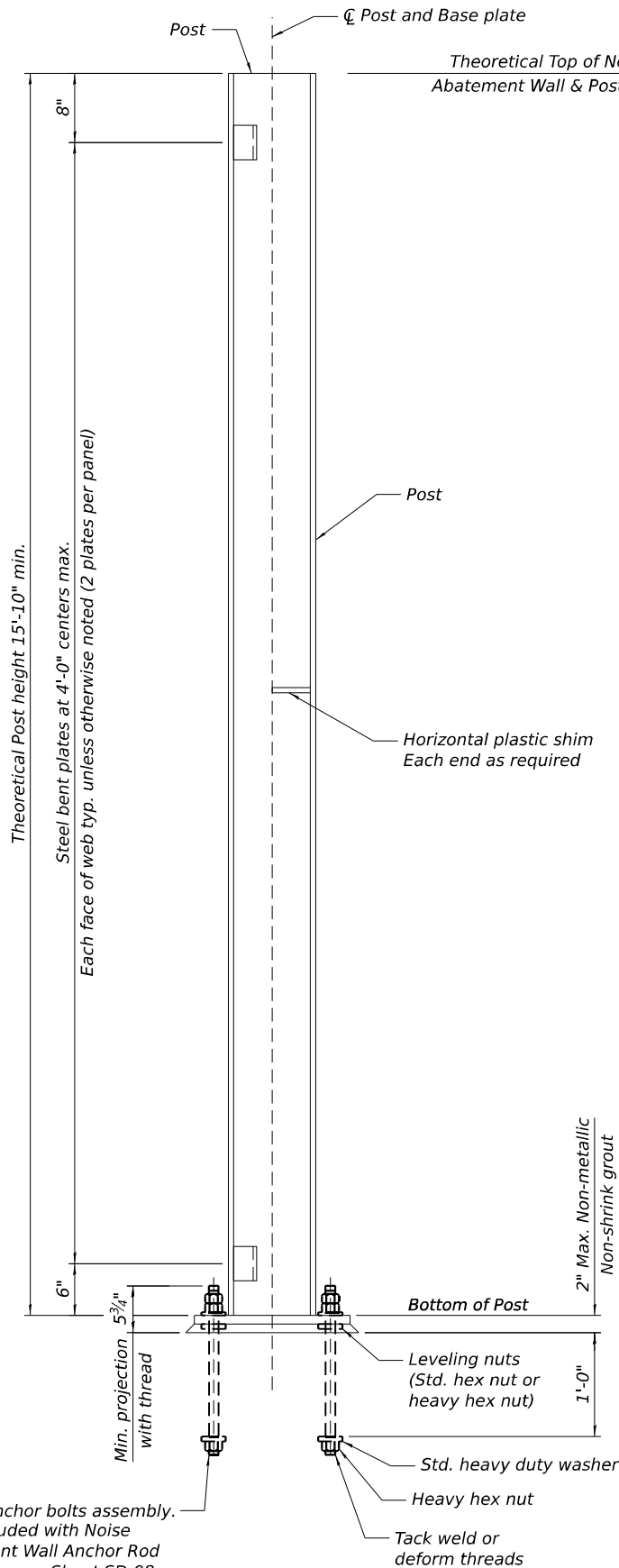
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80	2017-057F	WILL	1342	989
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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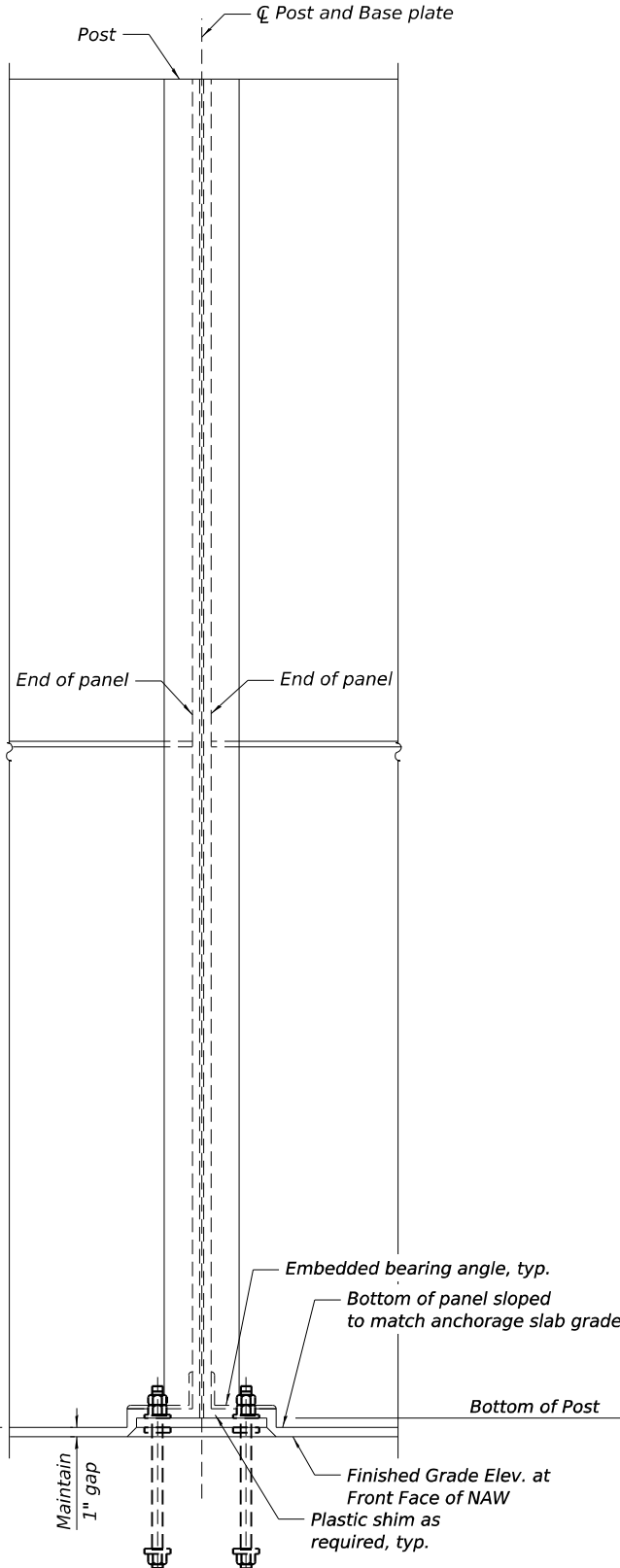


WSP USA INC.
30 N. LA SALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME = USGM717780	DESIGNED - MIS	REVISED -
CHECKED - PJL	REVIS	REVISED -
PLOT SCALE = 50,000 ' / in.	DRAWN - GM	REVISED -
PLOT DATE = 12/2/2025	CHECKED - MIS	REVISED -



SIDE VIEW



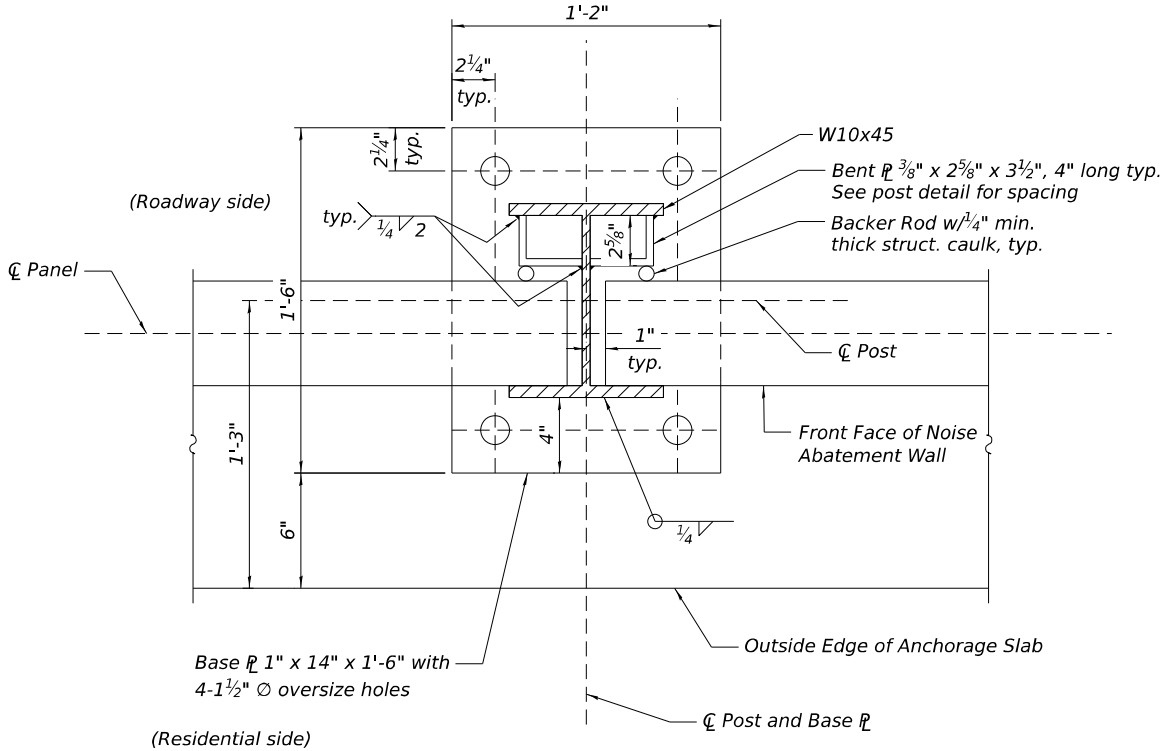
FRONT VIEW

Note:
Cost of posts, bent plates, backer rod, bearing angles, etc. are included in Noise Abatement Wall, Structure Mounted.

NOISE ABATEMENT WALL, STRUCTURE MOUNTED B26 (DATA TABLE 2)

Post	Station	Offset to Centerline of Post* (ft)	Theoretical top of NAW Elev.	Chicago St. Ramp "A" PGL Elev.	Finished Grade Elev. at Front Face of NAW	Theoretical Bottom of NAW Elev.	Theoretical Post Height (ft)	Theoretical Wall Height (ft)
P26-01	613+61.84	29.94	560.37	543.97	544.37	543.45	15.83	16
P26-02	613+72.57	30.06	560.14	543.65	544.14	543.22	15.83	16
P26-03	613+83.28	30.20	559.93	543.33	543.93	543.01	15.83	16
P26-04	613+93.99	30.36	559.78	543.02	543.78	542.86	15.83	16
P26-05	614+04.70	30.54	559.59	542.72	543.59	542.67	15.83	16
P26-06	614+15.40	30.73	559.33	542.43	543.33	542.41	15.83	16
P26-07	614+26.10	30.94	559.07	542.15	543.07	542.15	15.83	16
P26-08	614+32.17	31.06	558.92	542.00	542.92	542.00	15.83	16
P26-09	614+42.85	31.29	558.68	541.73	542.68	541.76	15.83	16
P26-10	614+53.53	31.54	558.44	541.48	542.44	541.52	15.83	16
P26-11	614+64.20	31.81	558.22	541.24	542.22	541.30	15.83	16
P26-12	614+74.86	32.08	558.01	541.01	542.01	541.09	15.83	16
P26-13	614+85.52	32.38	557.81	540.79	541.81	540.89	15.83	16
P26-14	614+96.16	32.69	557.62	540.58	541.62	540.70	15.83	16
P26-15	615+02.20	32.87	557.52	540.46	541.52	540.60	15.83	16
P26-16	615+12.83	33.20	557.34	540.27	541.34	540.42	15.83	16
P26-17	615+23.45	33.54	557.18	540.08	541.18	540.26	15.83	16
P26-18	615+34.06	33.90	557.03	539.89	541.03	540.11	15.83	16
P26-19	615+44.66	34.27	556.90	539.75	540.90	539.98	15.83	16
P26-20	615+55.25	34.65	556.77	539.59	540.77	539.85	15.83	16
P26-21	615+65.82	35.05	556.65	539.45	540.65	539.73	15.83	16
P26-22	615+71.82	35.28	556.59	539.37	540.59	539.67	15.83	16
P26-23	615+82.38	35.69	556.46	539.25	540.46	539.54	15.83	16
P26-24	615+92.92	36.11	556.27	539.13	540.27	539.35	15.83	16
P26-25	616+03.46	36.55	556.08	539.03	540.08	539.16	15.83	16
P26-26	616+13.98	36.99	555.91	538.93	539.91	538.99	15.83	16
P26-27	616+24.48	37.45	555.74	538.84	539.74	538.82	15.83	16
P26-28	616+35.74	37.84	555.58	538.76	539.58	538.66	15.83	16

*Offsets are taken from Chicago St. Ramp A



BASE PLATE AND POST DETAIL

MODEL Default:
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WSP USA Inc.
30 N. LA SALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME = USGM717780	DESIGNED - MIS	REVISED -
	CHECKED - PJL	REVISED -
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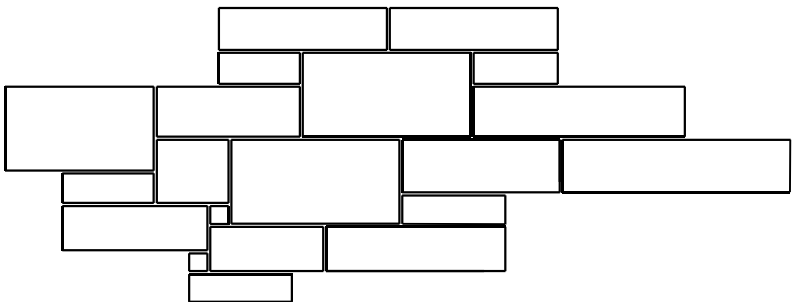
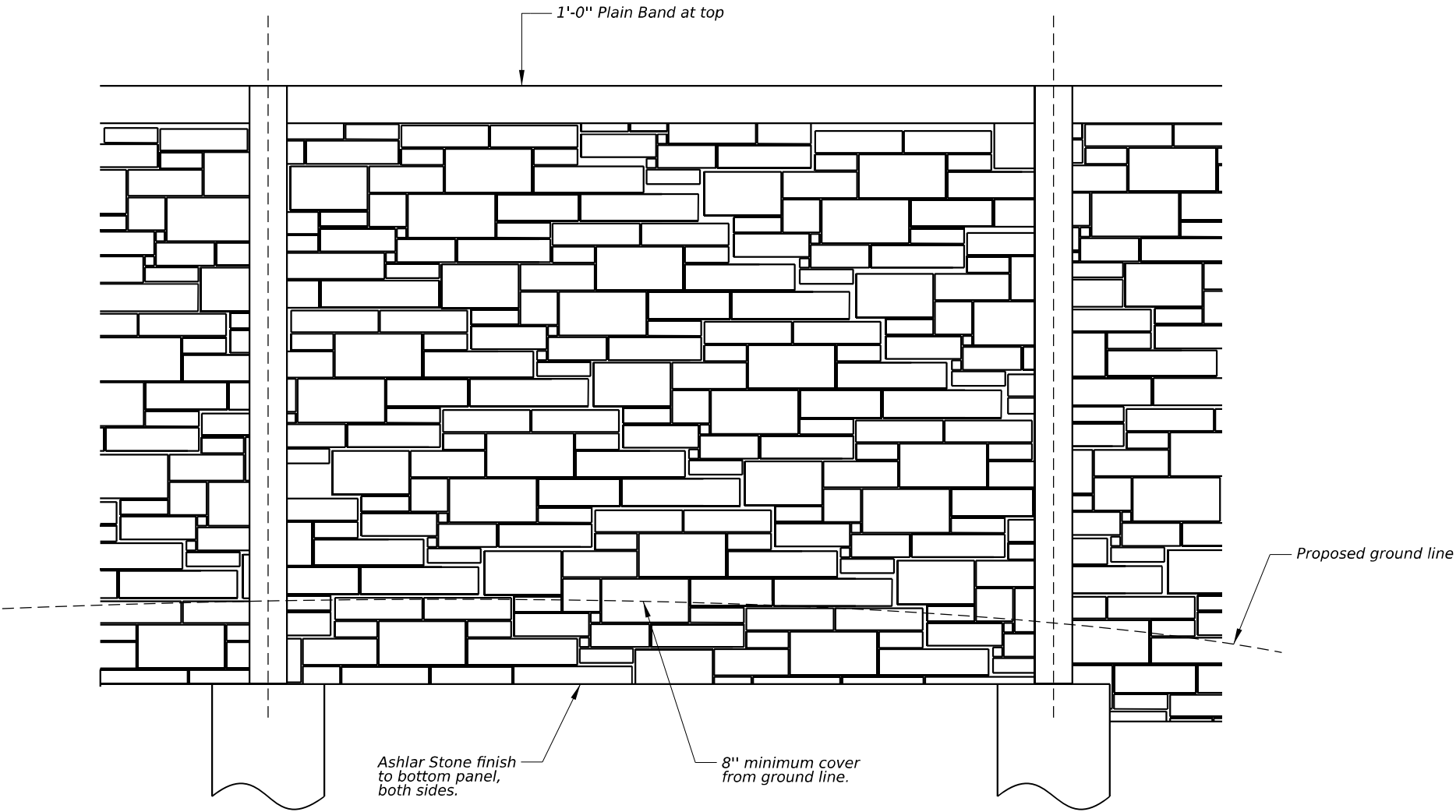
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL DETAILS 1
NOISE ABATEMENT WALL B26 - STRUCTURE NO. 099-N1029

SHEET SM-05 OF SM-07 SHEETS

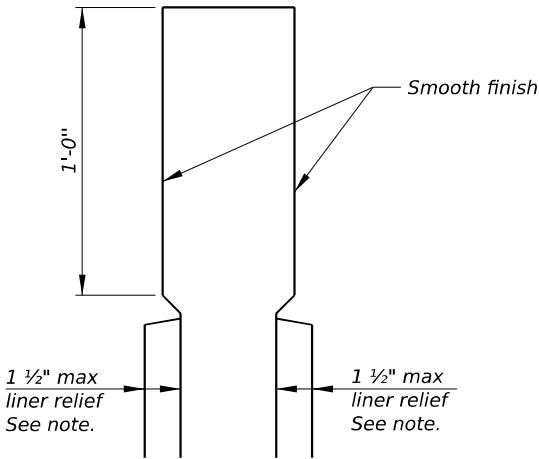
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80	2017-057F	WILL	1342	990
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

Notes:
Each side of the noise wall panels shall have a rolled ashlar stone finish. The finish shall have a 1 ½" relief for noise abatement wall, ground mounted and a ¾" relief for noise abatement wall, structure mounted. The color of both sides of the panels, plain band, posts and all other visible elements shall follow the special provisions.



Stone Pattern Sizes:
3" x 3" - 14" x 28"

ENLARGED PATTERN DETAIL



ENLARGED CAP DETAIL

MODEL NOISE WALLS DETAILS
FILE NAME: D:\2024\4261\2406.dgn



WSP USA Inc.
30 N. LA SALLE STREET
SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

USER NAME	= USGM717780	DESIGNED -	MIS	REVISED -	
		CHECKED -	PJL	REVISED -	
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PLOT DATE	= 12/2/2025	CHECKED -	MIS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL DETAILS 2
NOISE ABATEMENT WALL B26 - STRUCTURE NO. 099-N1029

SHEET SM-06 OF SM-07 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	991
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	

Page 1 of 1

Date 10/20/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 7 - Ramp A	LOGGED BY	AA
-------	------	-------------	-------------------------------	-----------	----

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG	Latitude	Longitude	HAMMER TYPE	Auto
		DRILLING METHOD	Diedrich D-50		HAMMER EFF (%)	95.5
			HSA			

STRUCT. NO. 099-W127	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. 17.00 ft	D E P T H	B L O W S	U C S	M O I S T
Station					Stream Bed Elev. N/A ft				
BORING NO. R/WB-57					Groundwater Elev.: Dry ft				
Station 613+21.30					First Encounter N/A ft				
Offset 30.90ft RT					Upon Completion N/A ft				
Ground Surface Elev. 525.85 ft	(ft)	(6")	(tsf)	(%)	After Hrs. N/A ft	(ft)	(6")	(tsf)	(%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 1 of 1

Date 10/28/22

ROUTE	I-80	DESCRIPTION	Retaining Wall No. 7 - Ramp A	LOGGED BY	AA
-------	------	-------------	-------------------------------	-----------	----

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

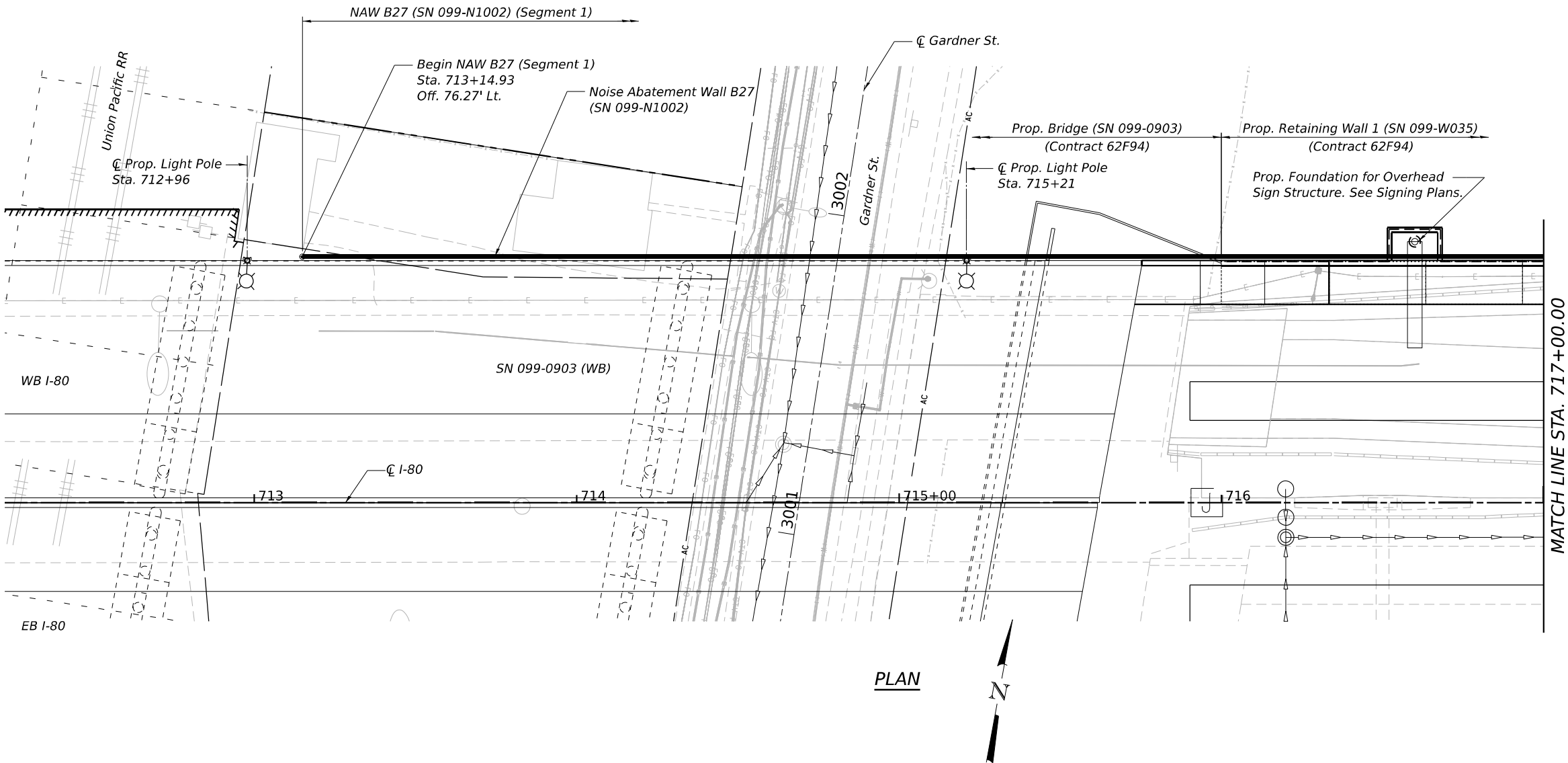
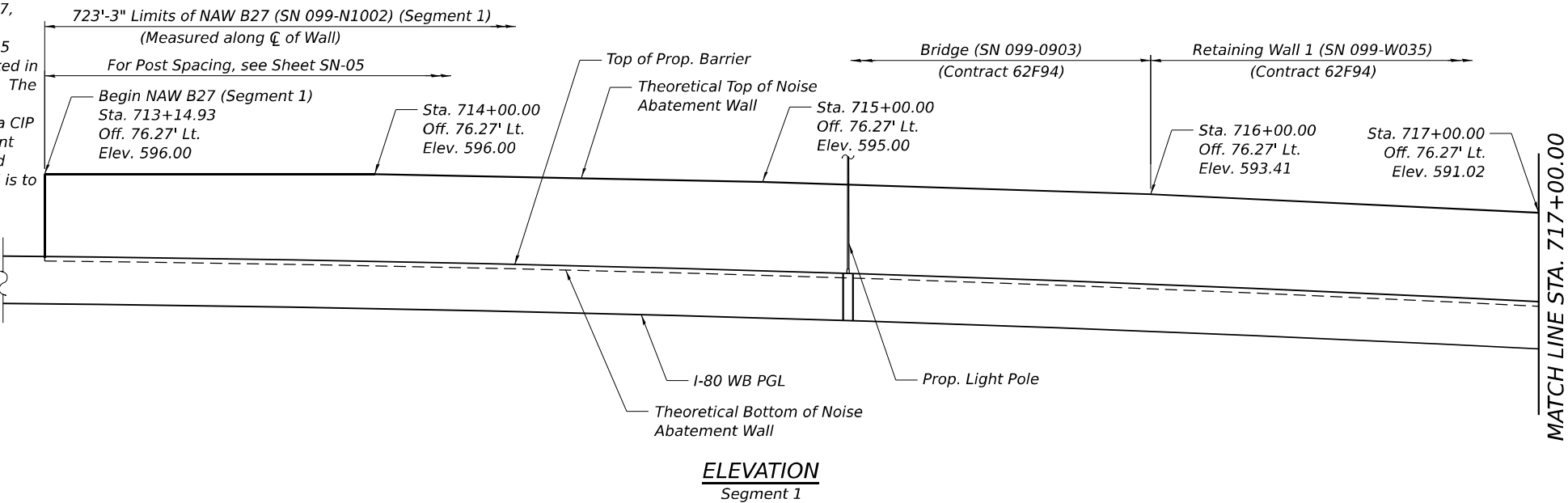
COUNTY	Will	DRILLING RIG	Latitude	Longitude	HAMMER TYPE	Auto
		DRILLING METHOD	Mobile B-57			
			HSA		HAMMER EFF (%)	89

STRUCT. NO. 099-W127	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. N/A ft	D E P T H	B L O W S	U C S	M O I S T
Station					Stream Bed Elev. N/A ft				
BORING NO. RWB-58	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: 509.4 ft	(ft)	(/6")	(tsf)	(%)
Station 013+41.20					First Encounter				
Offset 60.34ft RT					Upon Completion N/A ft				
Ground Surface Elev. 525.45 ft					After Hrs. N/A ft				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Benchmark: Iron rod with yellow cap at Sta. 722+92.37, 4.19' Rt. $\angle$ I-80, Elev. 556.54.
Existing Structure: The eastern portion of SN 099-W035 from Sta. 714+20.00 to Sta. 720+43.33 was constructed in 2024 as Project NHPP-6FXA (534), Section 2013-009B. The existing structure is a mechanically stabilized earth retaining wall with precast panels. The wall supports a CIP anchorage slab with a 72" tall barrier. Noise abatement wall SN 099-N1002 will be attached to the existing and proposed barrier as part of this contract. Existing wall is to remain.
Stage Construction will be utilized to maintain traffic. No Salvage.



EXP

STATE OF ILLINOIS

MAEN A. FARHAT

081.008545

REGISTERED PROFESSIONAL ENGINEER

DATE SIGNED: 10/31/2025

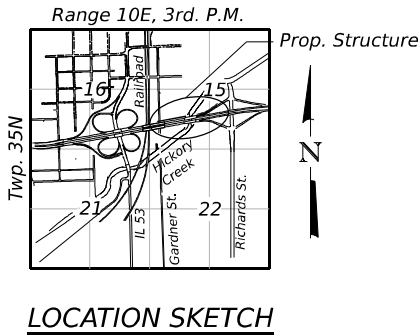
MAEN A. FARHAT, PHD, P.E., S.E.

NO. 081-008545

EXP. DATE: 11/30/2026

SEAL AND SIGNATURE APPLY TO:
SHEETS 1 - 8

- NOTES:**
- Theoretical Top of Wall Elevations and Theoretical Bottom of Wall Elevations shall be taken as straight lines in the segments between the stations shown in Elevation view on this sheet and the Noise Wall Data Table on Sheet SN-05.
 - For additional notes and legend, see Sheet SN-04.



**GENERAL PLAN AND ELEVATION
NOISE ABATEMENT WALL ALONG I-80
F.A.I. RTE. I-80 SEC. 2017-057F
WILL COUNTY
STA. 713+14.93 TO STA. 728+49.83
SN 099-N1002 (NOISE WALL B27)**

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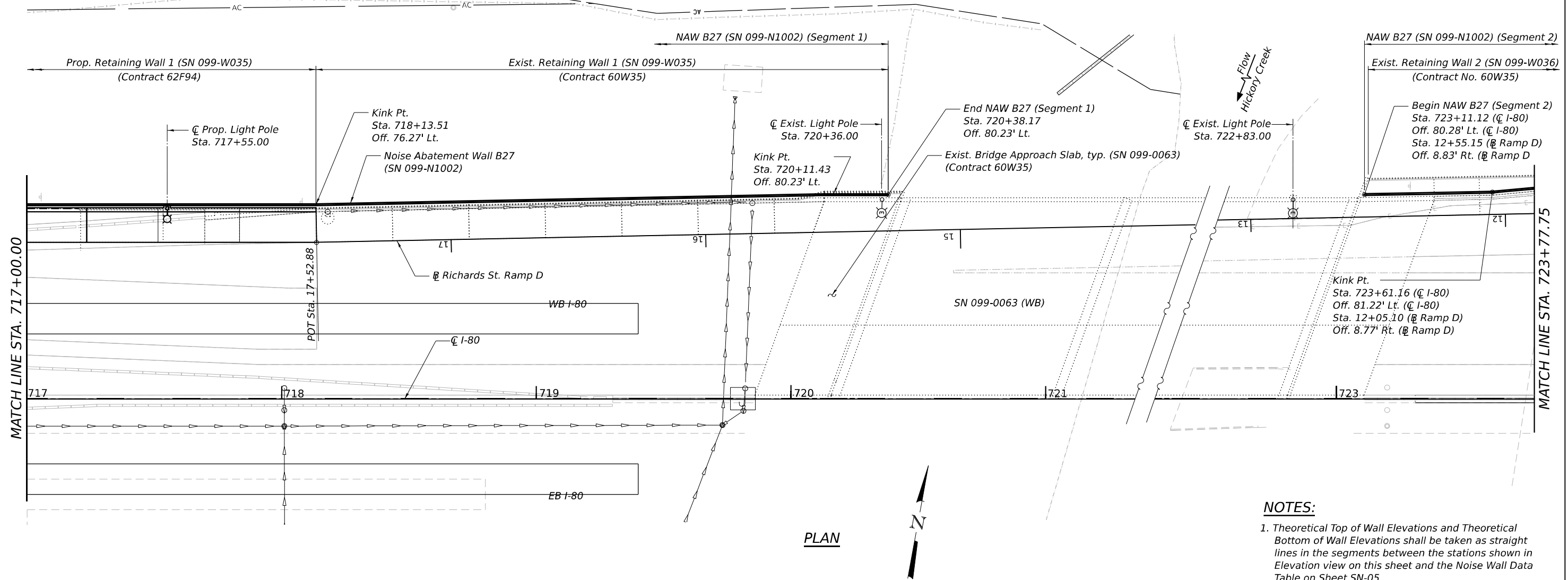
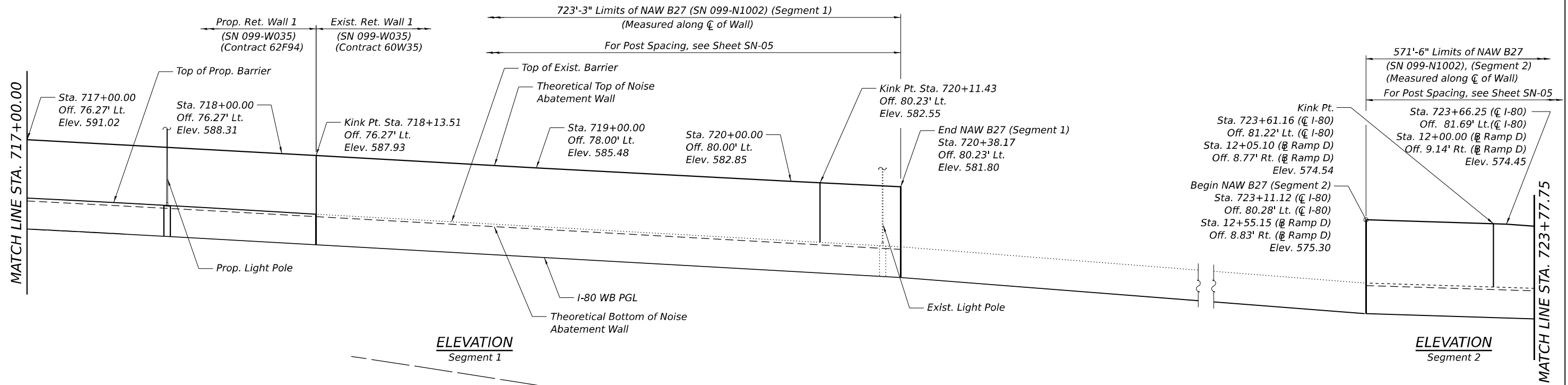
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PLOT DATE	=	CHECKED - BAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION 1
NOISE ABATEMENT WALL B27 (SN 099-N1002)

SHEET SN-01 OF SN-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	993
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



NOTES:

1. Theoretical Top of Wall Elevations and Theoretical Bottom of Wall Elevations shall be taken as straight lines in the segments between the stations shown in Elevation view on this sheet and the Noise Wall Data Table on Sheet SN-05.
2. For additional notes and legend, see Sheet SN-04.

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CHECKED - VCP		REVISED -	
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PLOT DATE	=	CHECKED - BAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

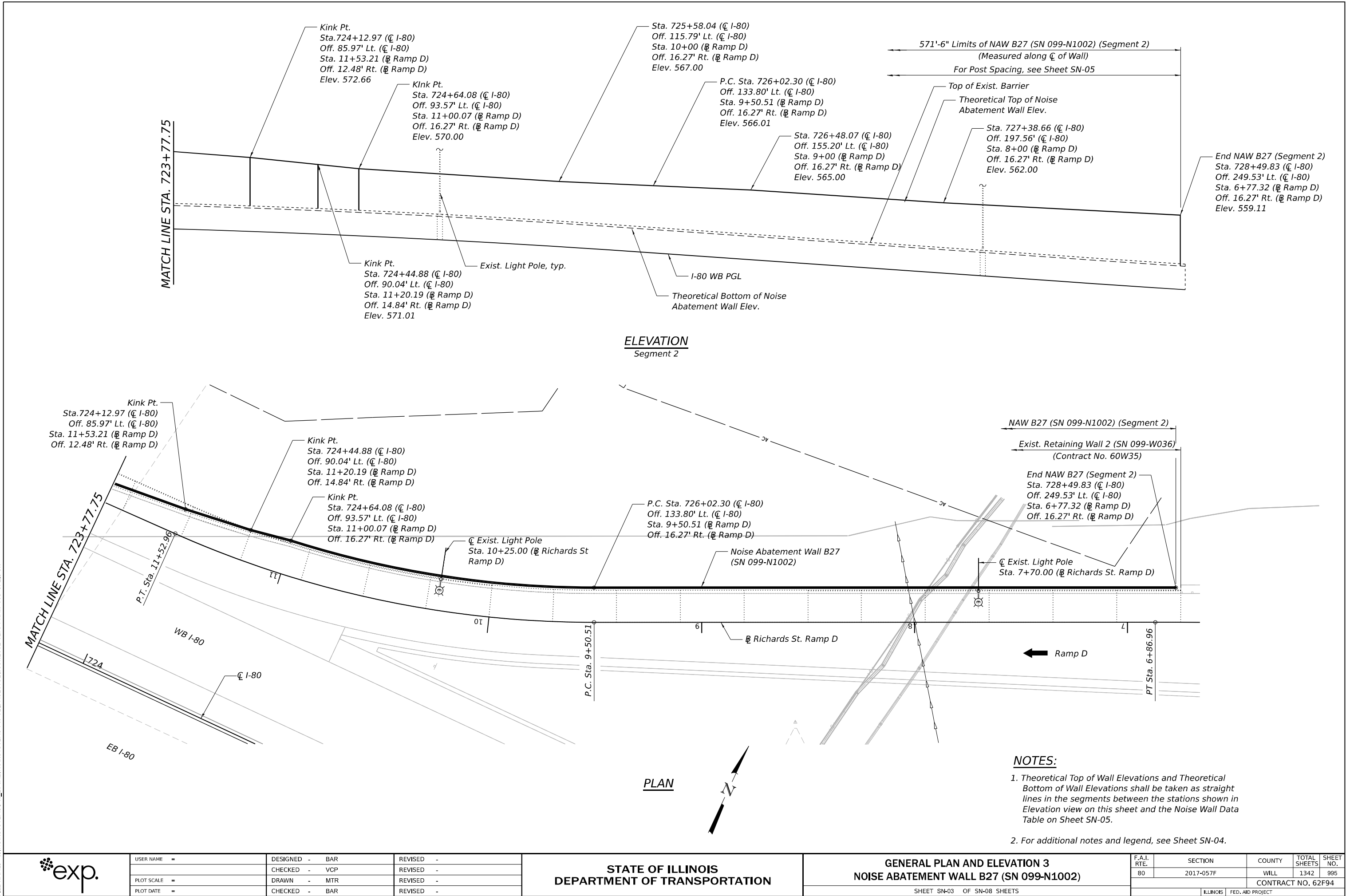
GENERAL PLAN AND ELEVATION 2
NOISE ABATEMENT WALL B27 (SN 099-N1002)

SHEET SN-02 OF SN-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	994
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

10-27-2025, 16:56:58

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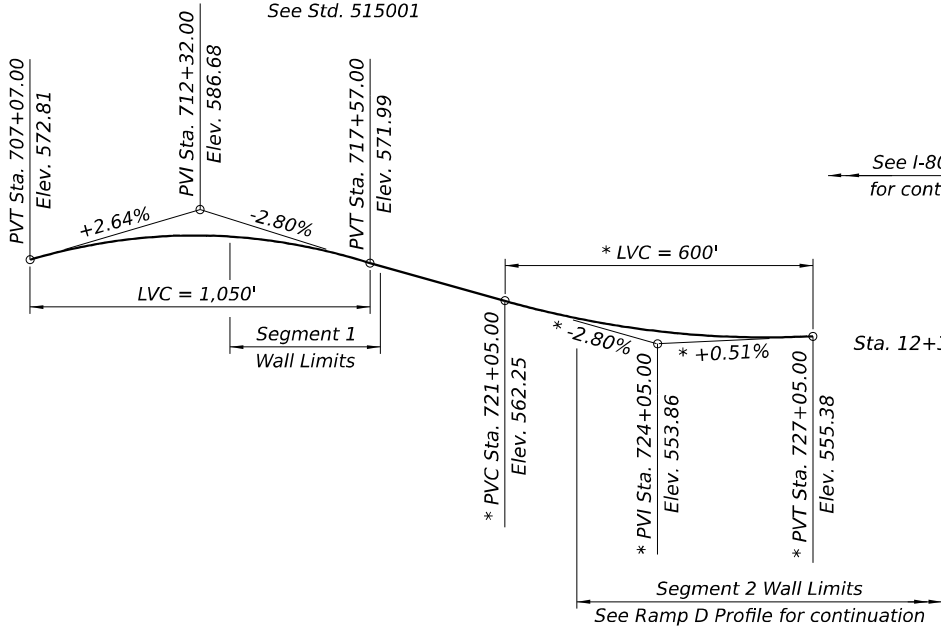
GENERAL NOTES

1. All post stations, offsets and elevations are shown in the Noise Wall Data Table in these plans. The proposed post locations on bridge SN 099-0903 and wall SN 099-W035 are also shown on SA and SD sheets in this contract, respectively. The existing post locations on bridge SN 099-0063 and walls SN 099-W035 and SN 099-W036 are shown in the Contract 60W35 plans. The Contractor shall verify location of existing post anchors and top of existing parapet elevations before preparation of shop drawings.
2. Contractor shall verify location of existing utilities prior to construction. Damage to any utilities shall be repaired by the Contractor at no additional cost to the Department.
3. Wall stations and offsets are measured relative to $\mathcal{C}$ I-80 and are measured to the centerline of wall, unless noted otherwise.
4. Contractor shall provide Ashlar Stone Finish on both faces of Noise Abatement Wall. For details, see sheet SN-08.
5. Theoretical top of wall elevations, theoretical bottom of wall elevations, shall be taken as straight lines in the segments between stations shown in the Noise Wall Data Table.
6. NAW denotes Noise Abatement Wall
B.F. denotes Back Face
F.F. denotes Front Face

NOISE ABATEMENT WALL
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RTE. 80
SEC. 2017-057F
FROM STA. 713+14.93 TO STA. 728+49.83
STRUCTURE NO. 099-N1002

NAME PLATE

See Std. 515001



PROFILE GRADE

(Along PGL of I-80 WB)

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
9th Edition

DESIGN STRESSES

FIELD UNITS

f_y = 60,000 psi (Reinforcement)
 f_y = 50,000 psi (Struct. Steel, M270 Grade 50, posts)
 f_y = 36,000 psi (Struct. Steel M270 Grade 36, all other structural steel)

PRECAST UNITS

f'_c = 4,500 psi
 f_y = 60,000 psi (Reinforcement)
 f_y = 65,000 psi (Welded Wire Reinforcement)

DESIGN LOADS

Factored Strength III or V Wind: 35 psf
Factored Service I Wind: 15 psf

INDEX OF SHEETS

SN-01	General Plan and Elevation 1
SN-02	General Plan and Elevation 2
SN-03	General Plan and Elevation 3
SN-04	General Data
SN-05	Data Tables
SN-06	Cross Sections
SN-07	Details 1
SN-08	Details 2

UTILITY CROSSING DATA TABLE

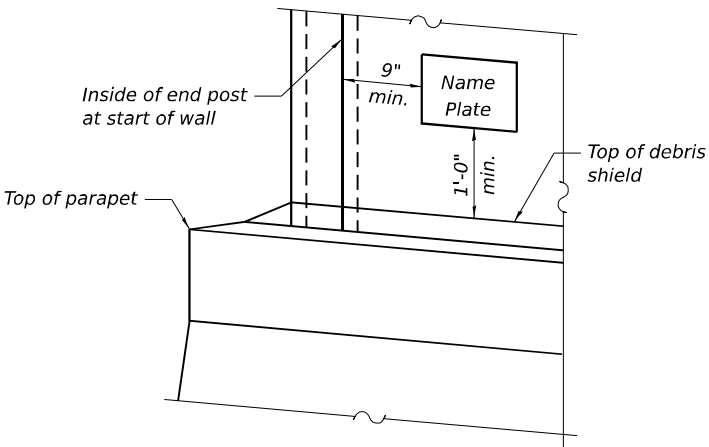
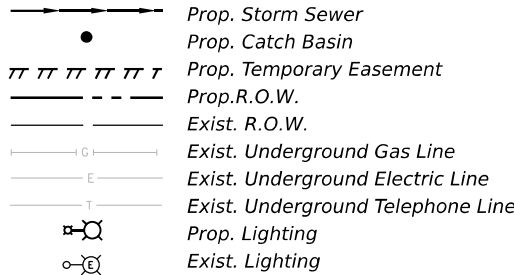
Utility	Station	Offset (Lt.)	Comments
Ex. Underground Electric	714+59.28	76.27	-
Ex. Underground Fiber Optic	714+56.92	76.27	-
Ex. Underground Fiber Optic	714+51.78	76.27	-
Ex. Underground Fiber Optic	714+56.18	76.27	-
Ex. Underground Fiber Optic	714+56.91	76.27	-
Ex. Underground Electric	714+55.33	76.27	-
Ex. Underground Cable TV	714+64.48	76.27	-
Ex. Underground Gas Main	714+63.20	76.27	-
Ex. Underground Fiber Optic	714+64.75	76.27	-
Ex. Underground Water Main	714+91.06	76.27	-
Ex. Underground Sanitary Sewer	714+81.60	76.27	-
Ex. Underground Storm Sewer	719+76.56	79.53	-
Ex. Underground Sanitary Sewer	723+89.65	83.83	-
Ex. Underground Storm Sewer	727+35.89	196.26	-
Ex. Underground Gas Main	727+44.72	200.39	-
Ex. Underground Telephone	727+46.60	201.27	-
Ex. Underground Water Main	727+62.85	208.87	-

Note: Stations and Offsets are measured relative to $\mathcal{C}$ I-80.

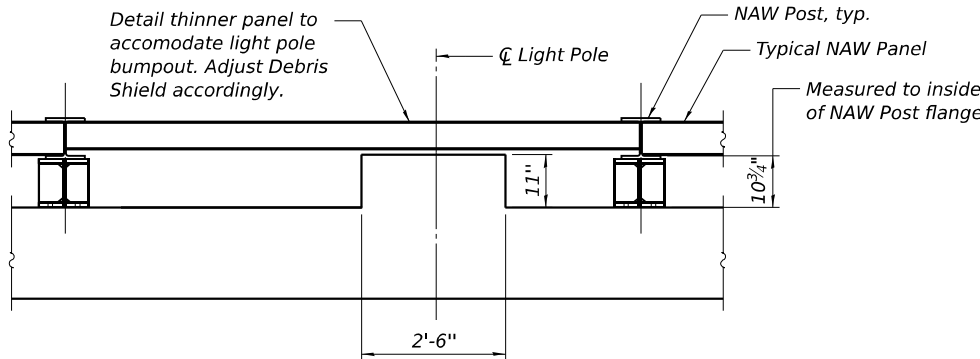
NOISE REDUCTION DATA

Noise Wall	Noise Wall Str. No.	Face	From Sta.	To Sta.	Noise Reduction Coefficient	Comments
B27 - Segment 1	099-N1002	I-80 face	713+14.93	720+38.17	Reflective	-
		Residential face			Reflective	-
B27 - Segment 2	099-N1002	I-80 face	723+11.12	728+49.83	Reflective	-
		Residential face			Reflective	-

LEGEND



NAME PLATE LOCATION



NAW PANEL DETAIL AT LIGHT

POLE BUMPOUTS - PLAN

CURVE DATA D-1

(Along $\mathcal{C}$ Richards St. Ramp D)

PI Sta. = 5+99.95
 Δ = 2°08'40" Lt.
D = 1°13'56"
R = 4,650.00"
T = 87.03'
L = 174.03'
E = 0.81'
e = 6.0%
P.C. Sta. = 5+12.92
P.T. Sta. = 6+86.96

CURVE DATA D-2

(Along $\mathcal{C}$ Richards St. Ramp D)

PI Sta. = 10+53.23
 Δ = 23°54'59" Rt.
D = 11°48'49"
R = 485.00'
T = 102.72'
L = 202.45'
E = 10.76'
e = 6.0%
P.C. Sta. = 9+50.51
P.T. Sta. = 11+52.96

TOTAL BILL OF MATERIAL

Item	Unit	Total
Name Plates	Each	1
Noise Abatement Wall, Structure Mounted	Sq. Ft.	18,132

MODEL: SHEET
FILE NAME: C:\TRANSSYSTEMS\PW_LOCAL\TRANSSYSTEMS-PW-01\DM520791\099N1002-62F94-NAW-004-GD.DGN



USER NAME =	DESIGNED - BAR	REVISED -
CHECKED - VCP	REVISED -	
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE =	CHECKED - BAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
NOISE ABATEMENT WALL B27 (SN 099-N1002)

SHEET SN-04 OF SN-08 SHEETS

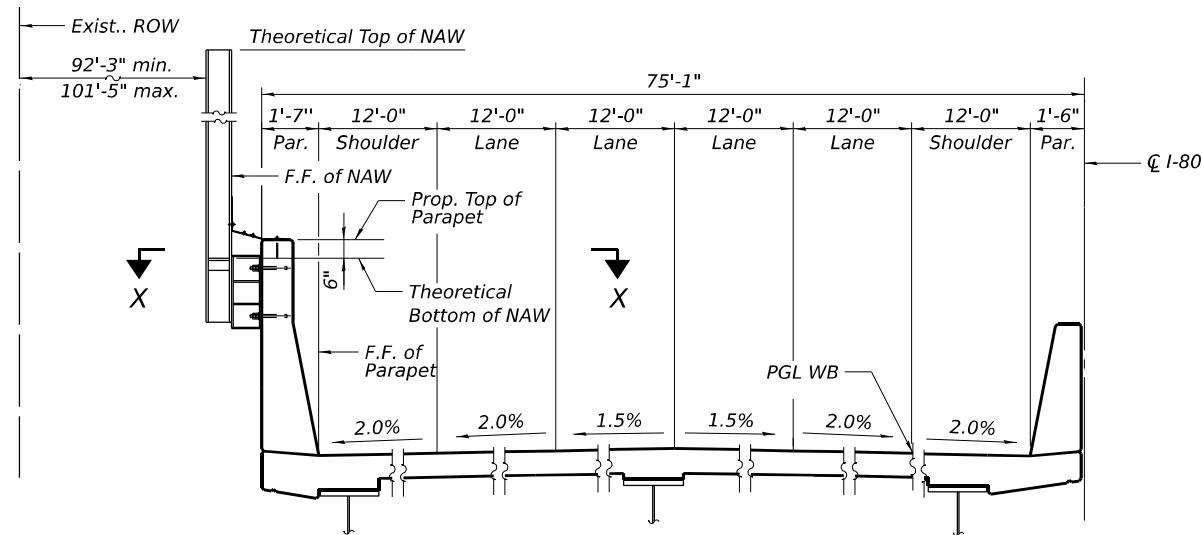
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	996
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

NOISE ABATEMENT WALL DATA TABLE - SEGMENT 1

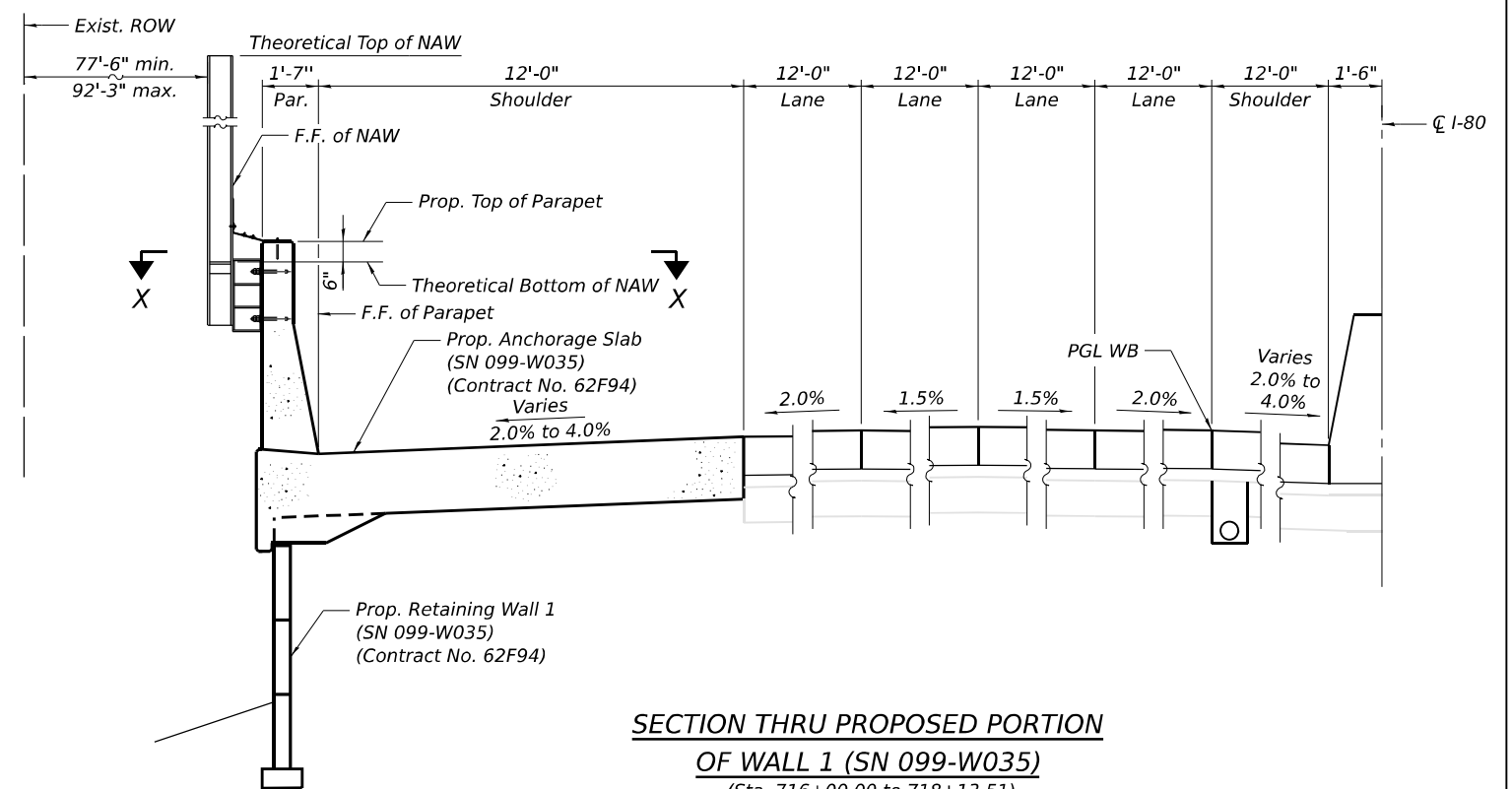
Location	I-80 Station	I-80 Offset to CL NAW at CL Post (ft)	Theoretical Top of NAW Elev.	I-80 PG Elev.	Top of Parapet Elev.	Theoretical Bottom of NAW Elev.	Theoretical Wall Height (ft)
P-01	713+14.93	76.27	596.00	579.30	585.06	584.56	11.44
P-02	713+26.60	76.27	596.00	579.24	585.00	584.50	11.50
P-03	713+38.27	76.27	596.00	579.17	584.93	584.43	11.57
P-04	713+49.93	76.27	596.00	579.09	584.85	584.35	11.65
P-05	713+61.60	76.27	596.00	579.00	584.77	584.27	11.73
P-06	713+73.27	76.27	596.00	578.91	584.67	584.17	11.83
P-07	713+84.93	76.27	596.00	578.82	584.58	584.08	11.92
P-08	713+96.60	76.27	596.00	578.71	584.47	583.97	12.03
P-09	714+08.27	76.27	595.92	578.60	584.36	583.86	12.06
P-10	714+19.93	76.27	595.80	578.48	584.24	583.74	12.06
P-11	714+28.35	76.27	595.72	578.39	584.15	583.65	12.07
P-12	714+40.02	76.27	595.60	578.26	584.02	583.52	12.08
P-13	714+48.43	76.27	595.52	578.16	583.92	583.42	12.10
P-14	714+60.10	76.27	595.40	578.01	583.78	583.28	12.12
P-15	714+70.10	76.27	595.30	577.89	583.65	583.15	12.15
P-16	714+81.77	76.27	595.18	577.73	583.49	582.99	12.19
P-17	714+93.43	76.27	595.07	577.57	583.33	582.83	12.24
P-18	715+05.10	76.27	594.95	577.39	583.16	582.66	12.29
P-19	715+16.77	76.27	594.83	577.22	582.98	582.48	12.35
P-20	715+28.43	76.27	594.72	577.03	582.79	582.29	12.42
P-21	715+40.10	76.27	594.60	576.84	582.60	582.10	12.50
P-22	715+50.10	76.27	594.43	576.67	582.43	581.93	12.50
P-23	715+60.10	76.27	594.26	576.49	582.26	581.76	12.50
P-24	715+70.10	76.27	594.08	576.31	582.08	581.58	12.50
P-25	715+81.77	76.27	593.84	576.10	581.84	581.34	12.50
P-26	715+90.18	76.27	593.64	575.94	581.64	581.14	12.50
P-27	715+98.60	76.27	593.44	575.77	581.44	580.94	12.50
P-28	716+08.60	76.27	593.20	575.57	581.20	580.70	12.50
P-29	716+18.60	76.27	592.96	575.37	580.96	580.46	12.50
P-30	716+28.60	76.27	592.71	575.16	580.71	580.21	12.50
P-31	716+38.60	76.27	592.46	574.94	580.46	579.96	12.50
P-32	716+48.60	76.27	592.24	574.72	580.24	579.74	12.50
P-33	716+58.60	76.27	592.01	574.49	580.01	579.51	12.50
P-34	716+68.60	76.27	591.78	574.26	579.78	579.28	12.50
P-35	716+78.60	76.27	591.55	574.02	579.55	579.05	12.50
P-36	716+88.60	76.27	591.30	573.78	579.30	578.80	12.50
P-37	716+98.60	76.27	591.06	573.53	579.06	578.56	12.50
P-38	717+08.60	76.27	590.80	573.28	578.80	578.30	12.50
P-39	717+18.60	76.27	590.55	573.03	578.55	578.05	12.50
P-40	717+28.60	76.27	590.28	572.76	578.28	577.78	12.50
P-41	717+38.60	76.27	590.02	572.50	578.02	577.52	12.50
P-42	717+48.60	76.27	589.74	572.22	577.74	577.24	12.50
P-43	717+58.60	76.27	589.47	571.94	577.47	576.97	12.50
P-44	717+68.60	76.27	589.19	571.66	577.19	576.69	12.50
P-45	717+78.60	76.27	588.91	571.38	576.91	576.41	12.50
P-46	717+88.60	76.27	588.63	571.10	576.63	576.13	12.50
P-47	717+98.60	76.27	588.35	570.82	576.35	575.85	12.50
P-48	718+08.60	76.27	588.07	570.55	576.07	575.57	12.50
Kink Pt	718+13.51	76.27	587.93	570.41	575.93	575.43	12.50
P-49	718+18.57	76.37	587.79	570.27	575.79	575.29	12.50
P-50	718+28.57	76.57	587.50	569.99	575.50	575.00	12.50
P-51	718+38.57	76.77	587.22	569.71	575.22	574.72	12.50
P-52	718+48.57	76.97	586.93	569.43	574.93	574.43	12.50
P-53	718+58.57	77.17	586.65	569.15	574.65	574.15	12.50
P-54	718+68.56	77.37	586.37	568.87	574.37	573.87	12.50
P-55	718+78.56	77.57	586.08	568.59	574.08	573.58	12.50
P-56	718+88.56	77.77	585.80	568.31	573.80	573.30	12.50
P-57	718+98.56	77.97	585.52	568.03	573.52	573.02	12.50
P-58	719+08.56	78.17	585.23	567.75	573.23	572.73	12.50
P-59	719+18.55	78.37	584.95	567.47	572.95	572.45	12.50
P-60	719+28.55	78.57	584.66	567.19	572.66	572.16	12.50
P-61	719+38.54	78.77	584.38	566.91	572.38	571.88	12.50
P-62	719+48.54	78.97	584.10	566.63	572.10	571.60	12.50
P-63	719+58.54	79.17	583.86	566.35	571.86	571.36	12.50
P-64	719+68.54	79.37	583.61	566.07	571.61	571.11	12.50
P-65	719+78.54	79.57	583.37	565.79	571.37	570.87	12.50
P-66	719+88.53	79.77	583.12	565.51	571.12	570.62	12.50
P-67	719+98.53	79.97	582.88	565.23	570.88	570.38	12.50
P-68	720+08.10	80.16	582.65	564.96	570.65	570.15	12.50
Kink Pt	720+11.43	80.23	582.55	564.87	570.55	570.05	12.50
P-69	720+18.17	80.23	582.36	564.68	570.36	569.86	12.50
P-70	720+28.17	80.23	582.08	564.40	570.08	569.58	12.50
P-71	720+38.17	80.23	581.80	564.12	569.80	569.30	12.50

NOISE ABATEMENT WALL DATA TABLE - SEGMENT 2

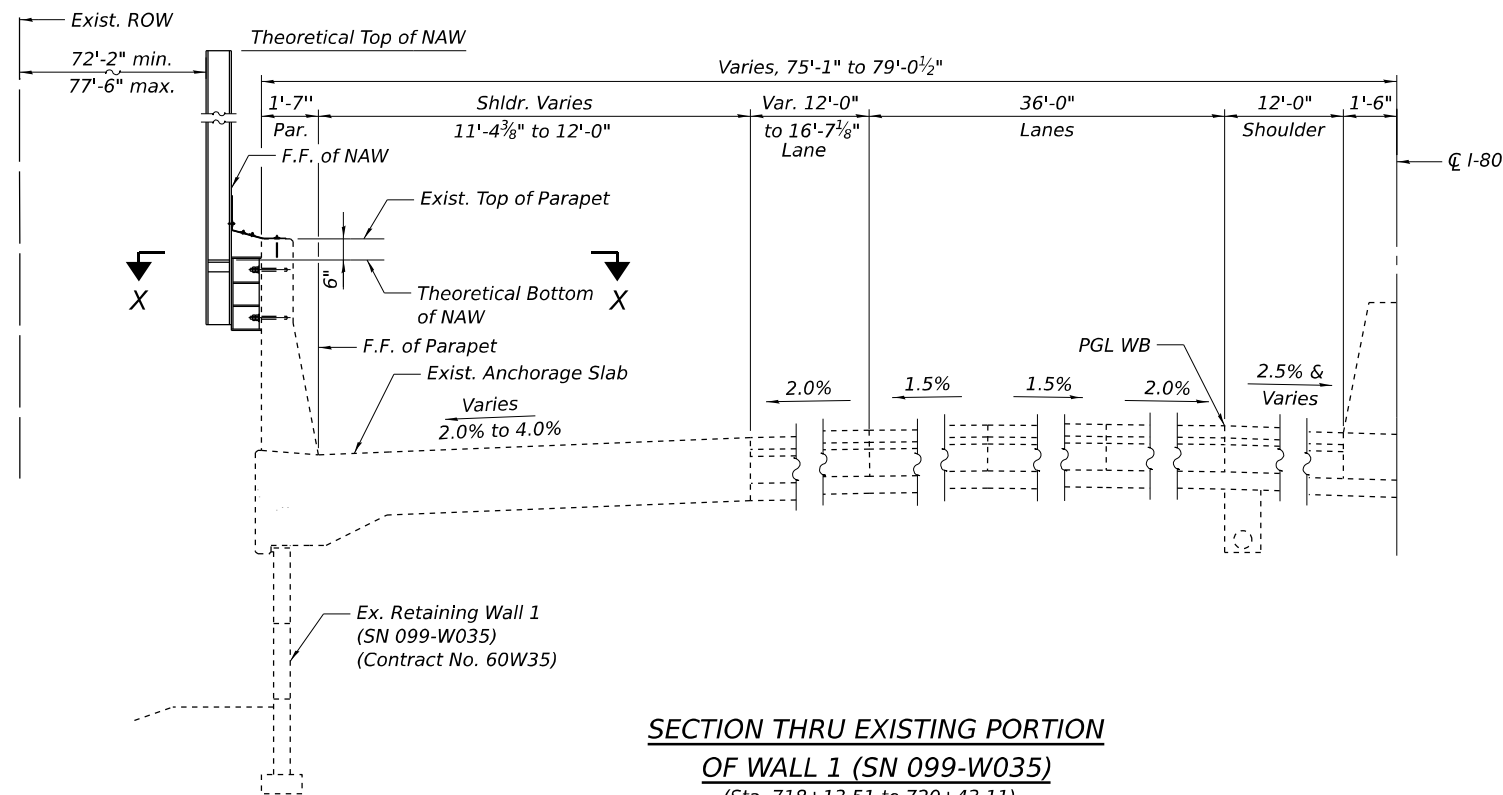
Location	Richards St. Ramp D Station	Ramp D Offset to CL NAW at CL Post (ft)	Theoretical Top of NAW Elev.	Ramp D PG Elev.	Top of Parapet Elev.	Theoretical Bottom of NAW Elev.	Theoretical Wall Height (ft)
P-72	*723+11.12	8.83	575.30	*557.65	563.30	562.80	12.50
P-73	*723+21.12	8.81	575.15	*557.49	563.15	562.65	12.50
P-74	*723+31.12	8.79	575.00	*557.33	563.00	562.50	12.50
P-75	12+24.96	8.77	574.85	556.97	562.85	562.35	12.50
P-76	12+15.29	8.77	574.71	556.82	562.71	562.21	12.50
P-77	12+05.62	8.77	574.55	556.68	562.55	562.05	12.50
Kink Pt.	12+05.10	8.77	574.54	556.67	562.54	562.04	12.50
P-78	11+96.18	9.41	574.37	556.54	562.37	561.87	12.50
P-79	11+86.54	10.10	574.19	556.39	562.19	561.69	12.50
P-80	11+76.89	10.79	573.84	556.25	561.99	561.49	12.35
P-81	11+67.22	11.47	573.36	556.10	561.80	561.30	12.07
P-82	11+57.61	12.16	572.88	555.96	561.59	561.09	11.79
Kink Pt	11+53.21	12.48	572.66	555.89	561.50	561.00	11.66
P-83	11+47.61	13.03	572.38	555.81	561.38	560.88	11.50
P-84	11+37.87	13.85	571.89	555.66	561.16	560.66	11.23
P-85	11+28.11	14.47	571.41	555.50	560.93	560.43	10.97
Kink Pt	11+20.19	14.84	571.01	555.36	560.74	560.24	10.77
P-86	11+18.48	14.99	570.92	555.33	560.69	560.19	10.73
P-87	11+08.70	15.76	570.44	555.16	560.43	559.93	10.50
Kink Pt	11+00.07	16.27	570.00	554.99	560.19	559.69	10.31
P-88	10+98.75	16.27	569.96	554.97	560.16	559.66	10.30
P-89	10+87.61	16.27	569.63	554.75	559.94	559.44	10.19
P-90	10+77.84	16.27	569.34	554.54	559.73	559.23	10.10
P-91	10+68.06	16.27	569.04	554.33	559.52	559.02	10.02
P-92	10+58.29	16.27	568.75	554.11	559.30	558.80	9.95
P-93	10+48.52	16.27	568.46	553.87	559.06	558.56	9.89
P-94	10+38.23	16.27	568.15	553.62	558.81	558.31	9.84
P-95	10+27.95	16.27	567.84	553.36	558.55	558.05	9.79
P-96	10+18.18	16.27	567.55	553.10	558.29	557.79	9.76
P-97	10+07.89	16.27	567.24	552.81	558.00	557.50	9.73
P-98	9+97.60	16.27	566.95	552.52	557.75	557.25	9.70
P-99	9+87.32	16.27	566.75	552.22	557.49	556.99	9.75
P-100	9+77.03	16.27	566.54	551.91	557.23	556.73	9.81
P-101	9+66.74	16.27	566.33	551.58	556.96	556.46	9.87
P-102	9+56.97	16.27	566.14	551.27	556.69	556.19	9.95
PC	9+50.51	16.27	566.01	551.05	556.51	556.01	10.00
P-103	9+47.29	16.27	565.95	550.94	556.40	555.90	10.04
P-104	9+37.29	16.27	565.75	550.60	556.06	555.56	10.18
P-105	9+27.29	16.27	565.55	550.25	555.71	555.21	10.33
P-106	9+17.29	16.27	565.35	549.91	555.37	554.87	10.48
P-107	9+07.29	16.27	565.15	549.56	555.02	554.52	10.63
P-108	8+97.29	16.27	564.92	549.21	554.67	554.17	10.75
P-109	8+87.29	16.27	564.62	548.86	554.32	553.82	10.80
P-110	8+77.29	16.27	564.32	548.51	553.97	553.47	10.85
P-111	8+67.29	16.27	564.02	548.16	553.62	553.12	10.90
P-112	8+57.29	16.27	563.72	547.81	553.27	552.77	10.95
P-113	8+47.28	16.27	563.42	547.46	552.92	552.42	10.99
P-114	8+37.28	16.27	563.12	547.12	552.58	552.08	11.04
P-115	8+27.28	16.27	562.82	546.77	552.23	551.73	11.09
P-116	8+17.28	16.27	562.52	546.42	551.88	551.38	11.14
P-117	8+07.28	16.27	562.22	546.07	551.53	551.03	11.19
P-118	7+97.28	16.27	561.96	545.72	551.18	550.68	11.28
P-119	7+87.28	16.27	561.80	545.37	550.83	550.33	11.46
P-120	7+77.28	16.27	561.64	545.02	550.48	549.98	11.65
P-121	7+67.28	16.27	561.48	544.67	550.13	549.63	11.84
P-122	7+57.28	16.27	561.32	544.33	549.79	549.29	12.03
P-123	7+47.28	16.27	561.16	543.98	549.44	548.94	12.22
P-124	7+37.28	16.27	561.00	543.63	549.09	548.59	12.41
P-125	7+27.28	16.27	560.74	543.28	548.74	548.24	12.50
P-126	7+17.28	16.27	560.40	542.94	548.40	547.90	12.50
P-127	7+07.28	16.27	560.07	542.61	548.07	547.57	12.50
P-128	6+97.28	16.27	559.74	542.28	547.74	547.24	12.50</



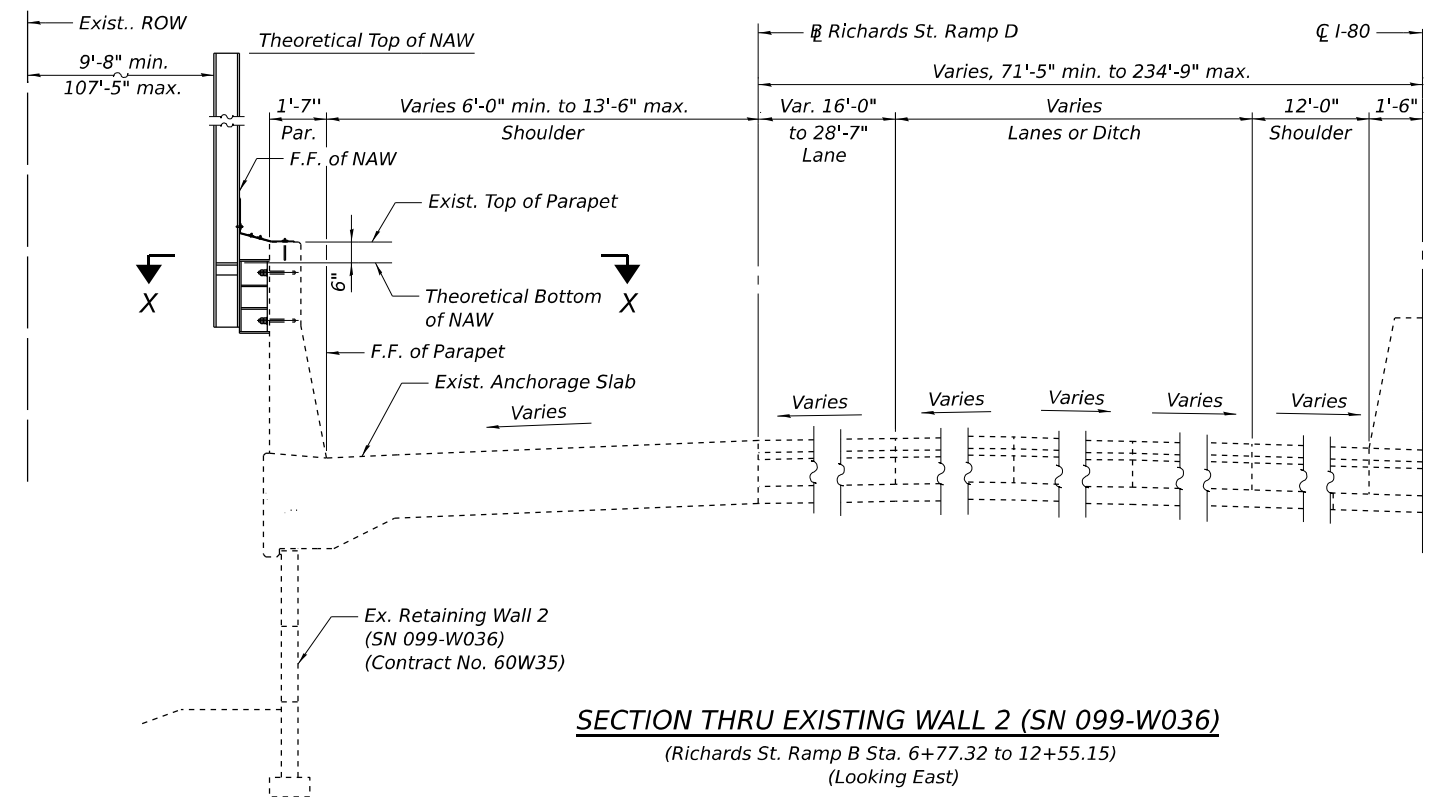
SECTION THRU PROPOSED WB BRIDGE (SN 099-0903)
(Sta. 713+14.93 to 716+00.00)
(Looking East, Bridge shown, Approach Slab
and MSE Wall are similar)



**SECTION THRU PROPOSED PORTION
OF WALL 1 (SN 099-W035)**
(Sta. 716+00.00 to 718+13.51)
(Looking East)



**SECTION THRU EXISTING PORTION
OF WALL 1 (SN 099-W035)**
(Sta. 718+13.51 to 720+43.11)
(Looking East)



SECTION THRU EXISTING WALL 2 (SN 099-W036)
(Richards St. Ramp B Sta. 6+77.32 to 12+55.15)
(Looking East)

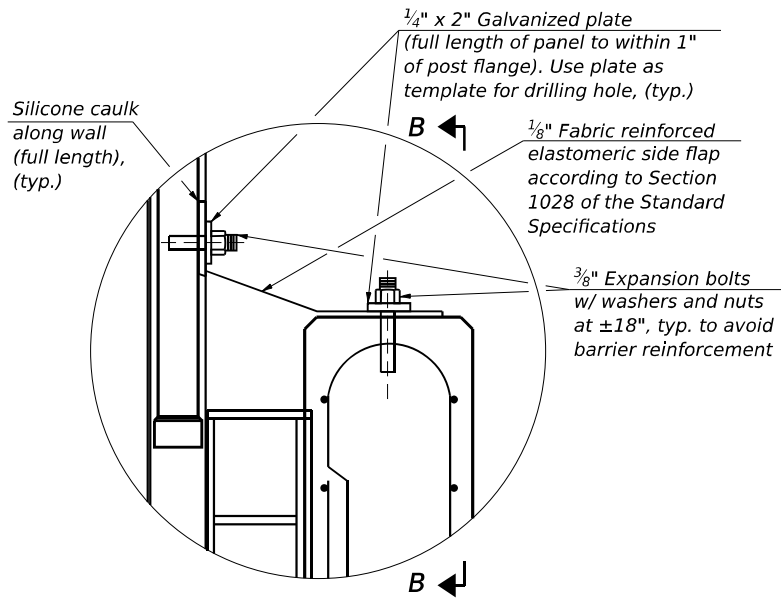
- NOTES:**
1. NAW denotes Noise Abatement Wall
B.F. denotes Back Face
F.F. denotes Front Face
 2. For Section X-X, see Sheet SN-07.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

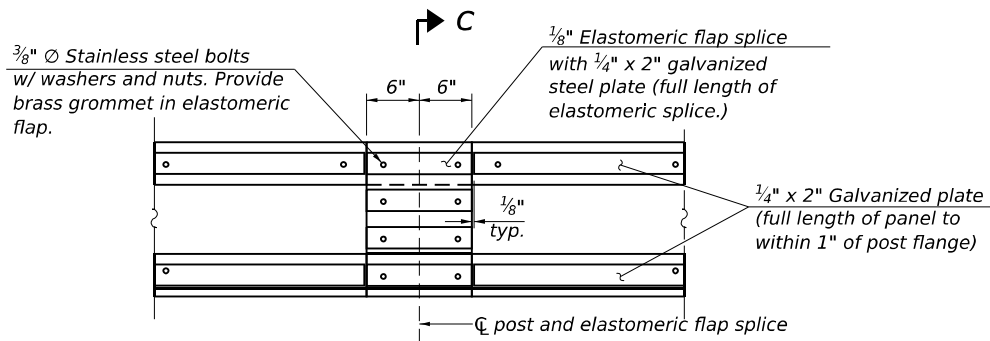
**CROSS SECTIONS
NOISE ABATEMENT WALL B27 (SN 099-N1002)**

SHEET SN-06 OF SN-08 SHEETS

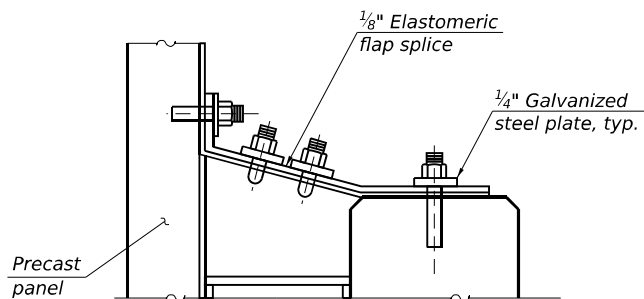
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	998
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



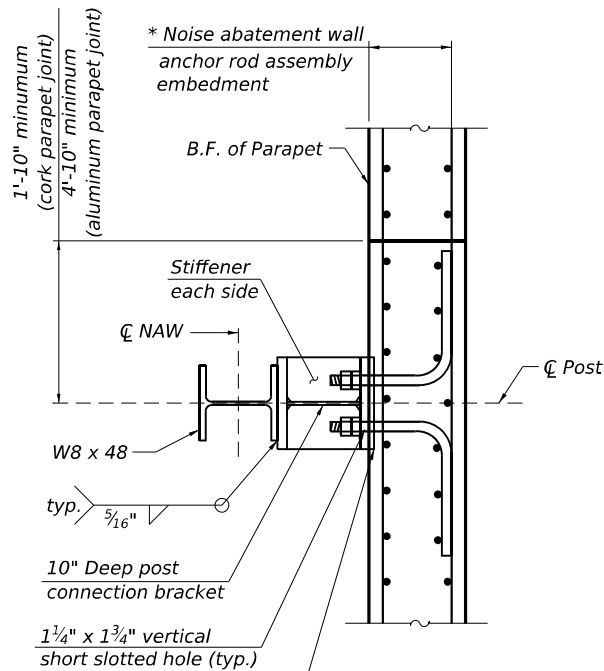
TYPICAL SECTION THRU DEBRIS SHIELD



SECTION B-B



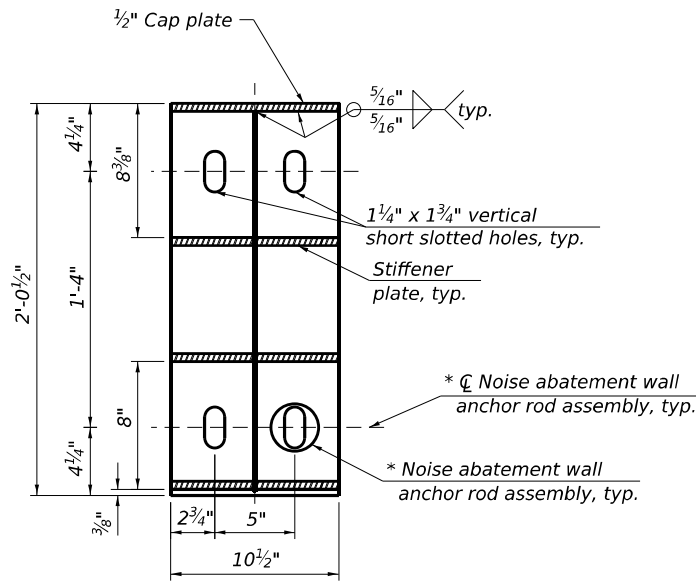
SECTION C-C



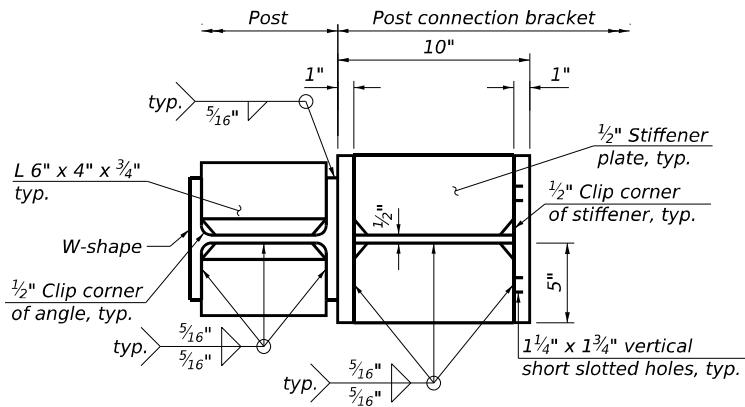
SECTION X-X

* Template R, may encroach on 1 1/2\" cl.
Prop. bridge SN 099-0903 and prop.
portion of wall SN 099-W035 only.

* For Information Only. See Bridge SN 099-0903
plans (SA sheets) or Wall SN 099-W035 (SD sheets)
for details and payment.



SECTION A-A
(Showing post connection bracket)



**SECTION THRU POST AND
POST CONNECTION BRACKET**
(Template R not shown for clarity)

MODEL: SHEET
FILE NAME: C:\TRANSSYSTEMS\PW_LOCAL\TRANSSYSTEMS\PW-01\DM520791\099N1002-62F94-NAW-007-DET01.DGN



USER NAME =	DESIGNED - BAR	REVISED -
	CHECKED - VCP	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE =	CHECKED - BAR	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

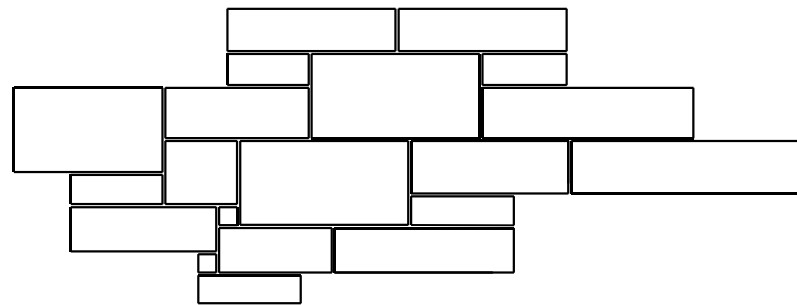
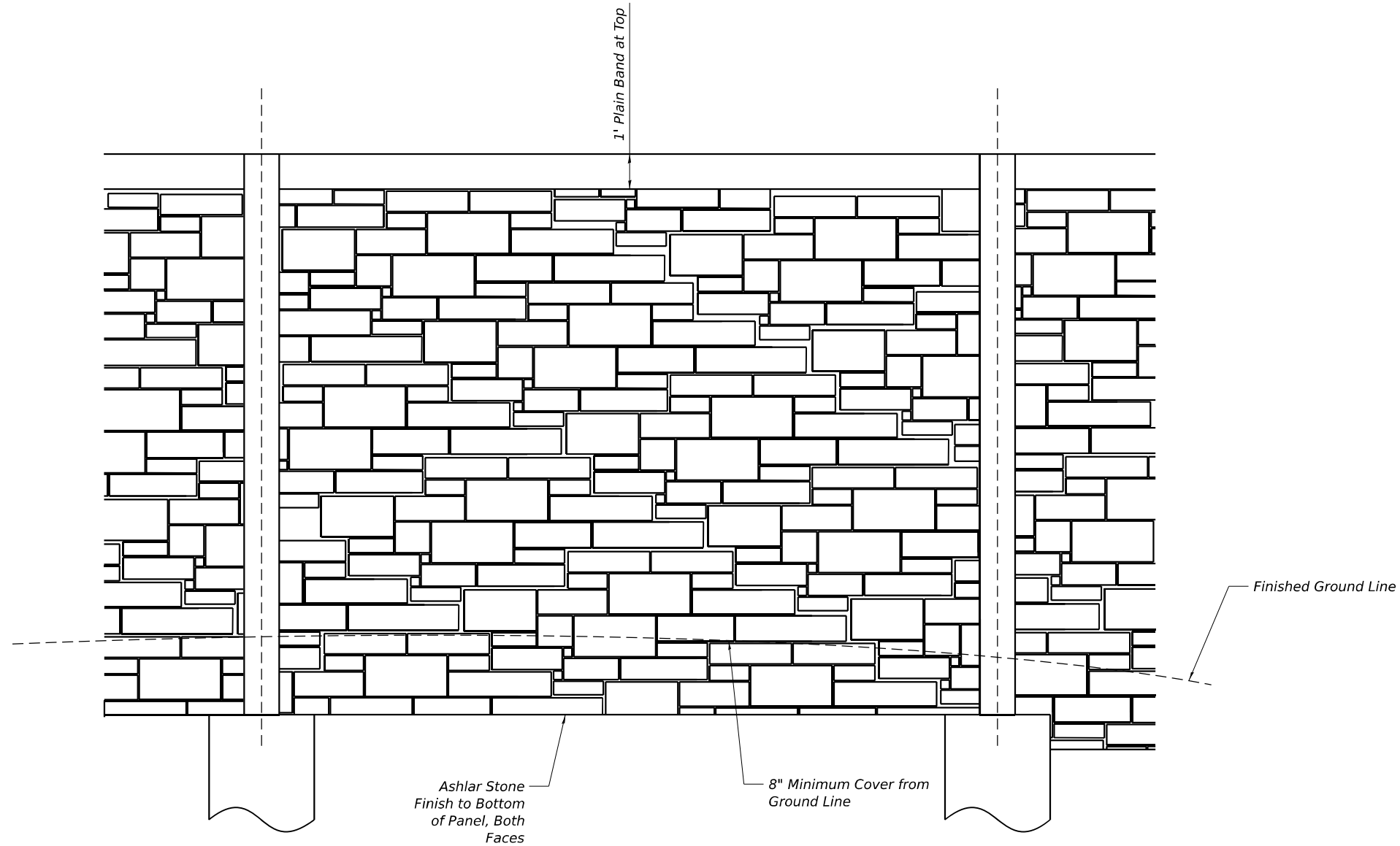
**DETAILS 1
NOISE ABATEMENT WALL B27 (SN 099-N1002)**

SHEET SN-07 OF SN-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	999
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

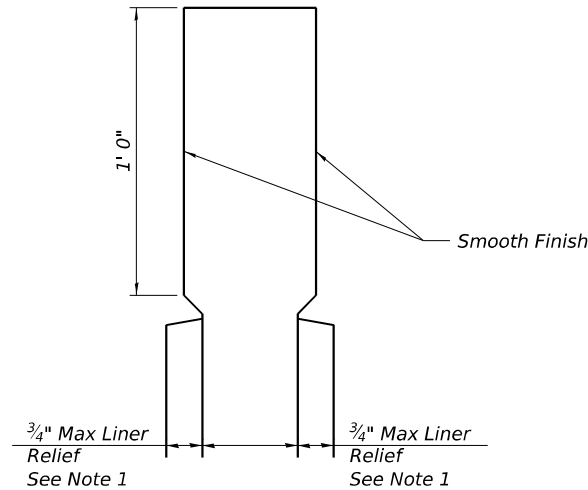
10-27-2025, 16:57:16

MODEL: SHEET
FILE NAME: C:\TRANSSYSTEMS\PW_LOCAL\TRANSSYSTEMS\PW-01\DM520791\099N1002-62F94-NAW-008-DET02.DGN



ENLARGED PATTERN DETAIL

Stone Pattern Sizes:
3" X 3" - 14" X 28"



ENLARGED CAP DETAIL

Notes:

1. Each side of the noise panels shall have a rolled ashlar stone finish. The finish shall have a $\frac{3}{4}$ " relief. The color of both sides of the panels, plain band, posts and all other visible elements shall follow the special provisions.



USER NAME	=	DESIGNED - BAR	REVISED -
		CHECKED - VCP	REVISED -
PLOT SCALE	=	DRAWN - MTR	REVISED -
PLOT DATE	=	CHECKED - BAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS 2
NOISE ABATEMENT WALL B27 (SN 099-N1002)

SHEET SN-08 OF SN-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	1000
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	