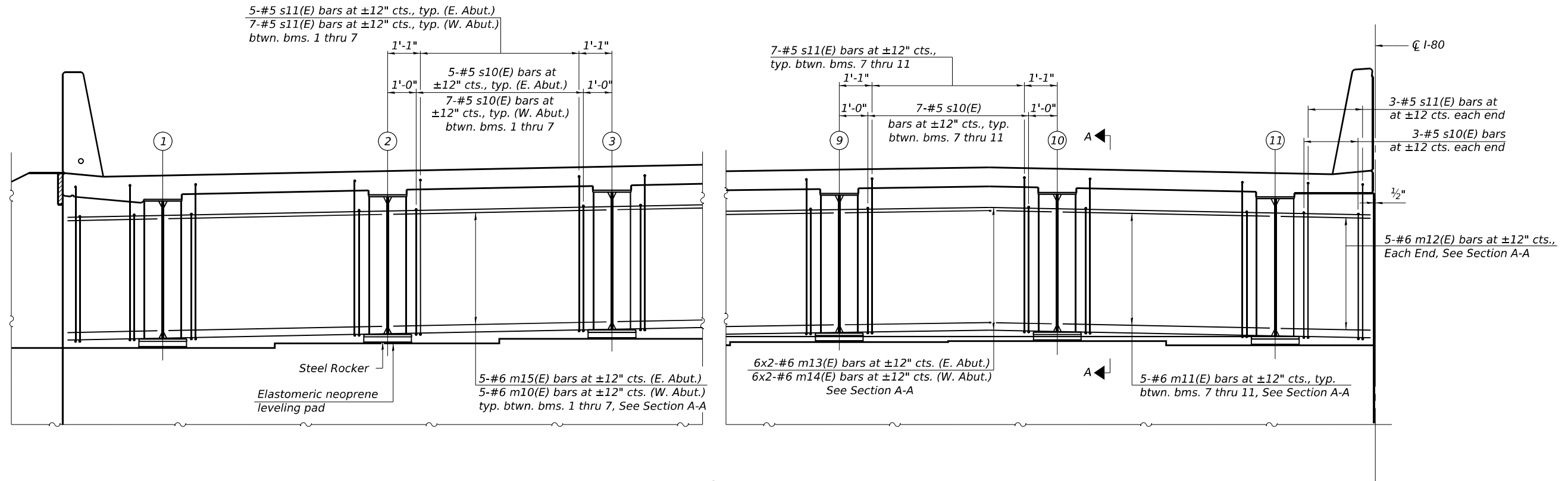
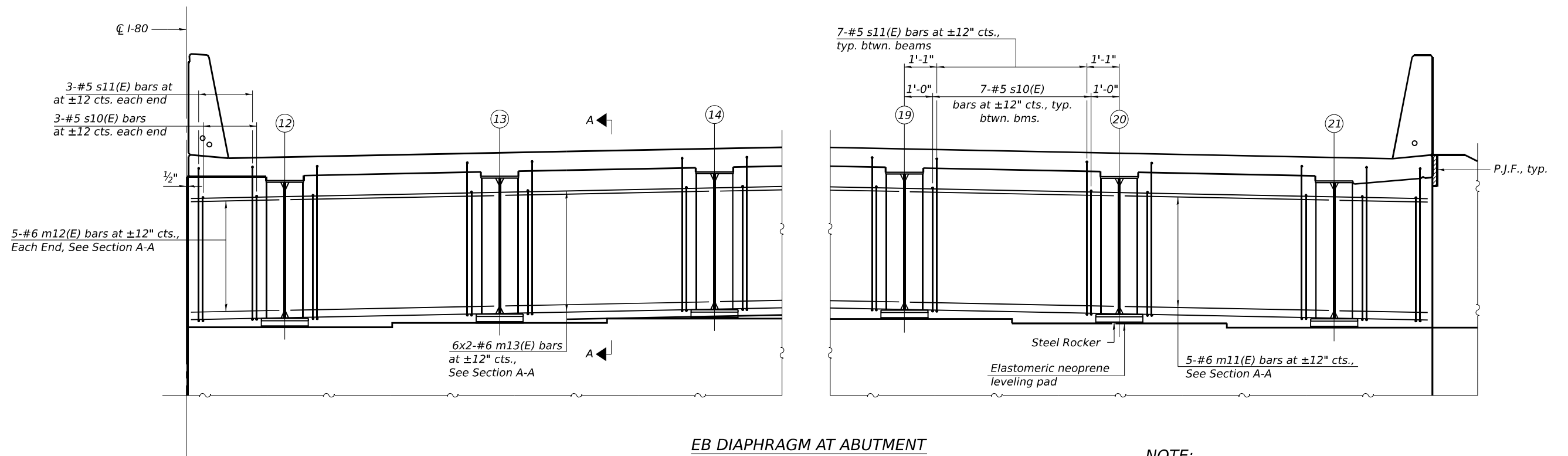




WB DIAPHRAGM AT ABUTMENT

(E. Abut. Shown, W. Abut. mirrored and similar unless noted otherwise)



EB DIAPHRAGM AT ABUTMENT

(E. Abut. Shown, W. Abut. mirrored and similar)

NOTE:

1. See sheet SB-26 of SB-53 for Section A-A and additional notes.

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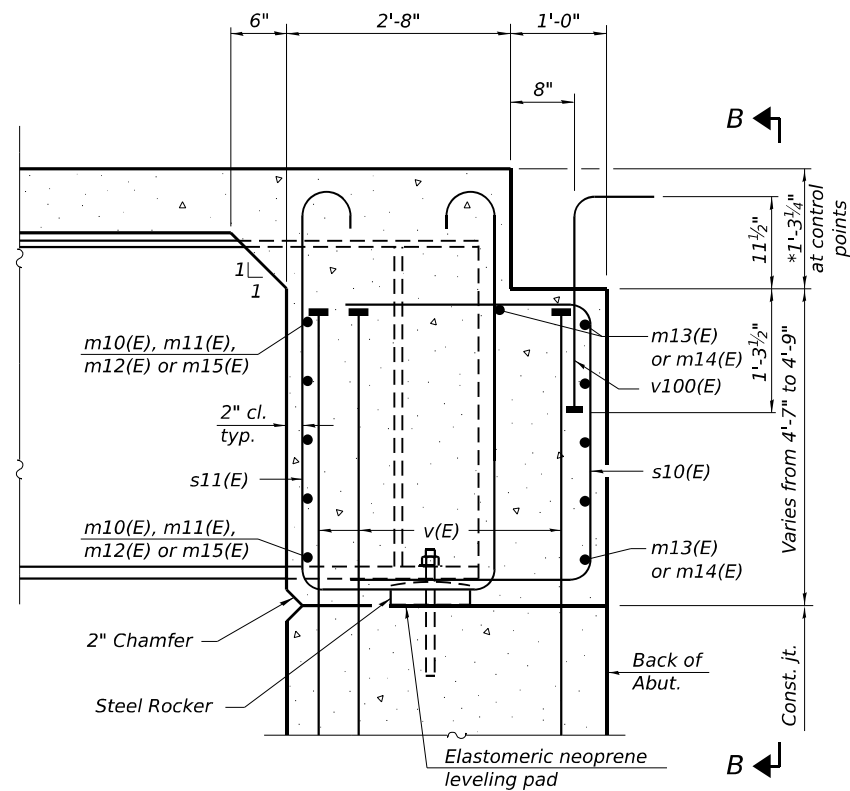
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS I
STRUCTURE NO. 099-8310

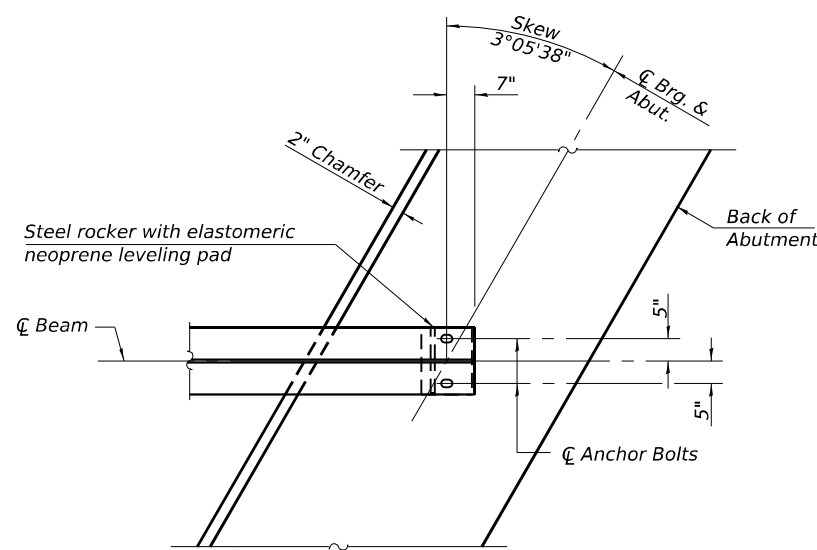
SHEET SB-25 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	801
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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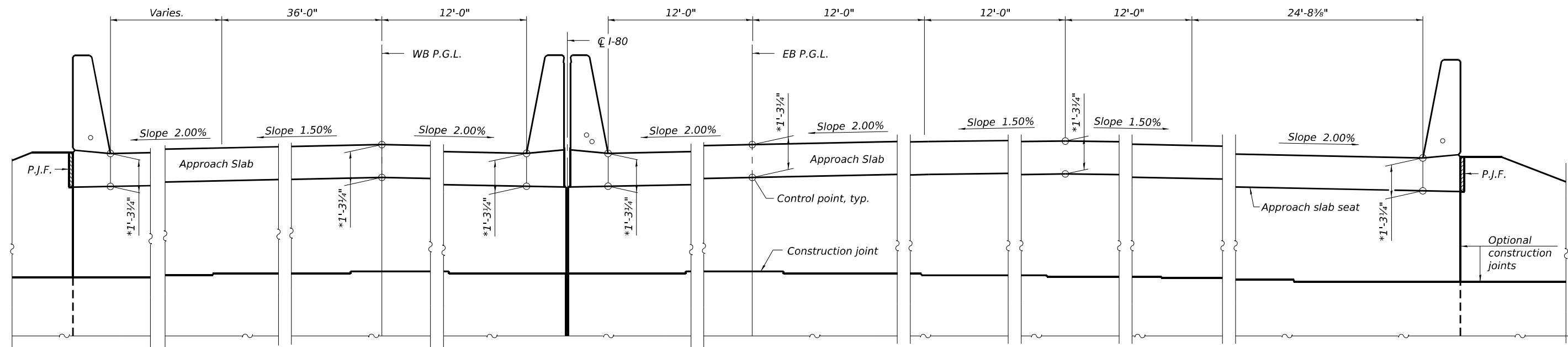
SECTION A-A
(at Rt. L's)



PLAN AT ABUTMENT
(Showing bottom flange of beam)

NOTES:

1. See sheet SB-23 of SB-53 for superstructure details and Bill of Material.
2. See sheet SB-29 of SB-53 for P.J.F. details.
3. The s10(E) and s11(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
4. The approach slab seat shall have a constant slope determined from the control points shown.
5. Beams shall be braced for stability during erection and remain braced until deck is poured and cured.



VIEW B-B

* Prior to Grinding

MODEL: Default
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	CHECKED - GEK	REVISED -
PLOT SCALE =	DRAWN - ECK	REVISED -
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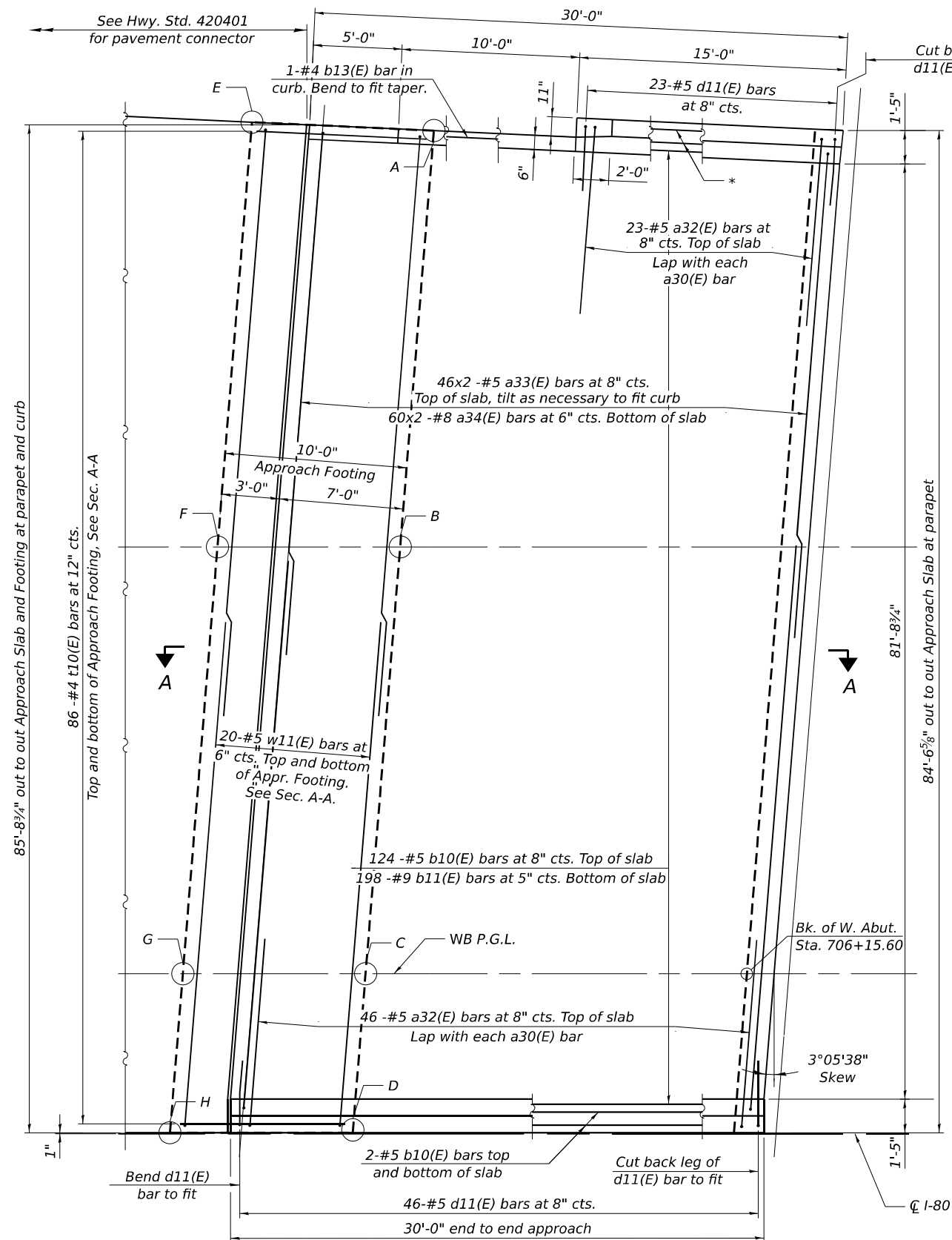
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS II
STRUCTURE NO. 099-8310

SHEET SB-26 OF SB-53 SHEETS

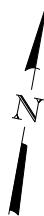
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	802
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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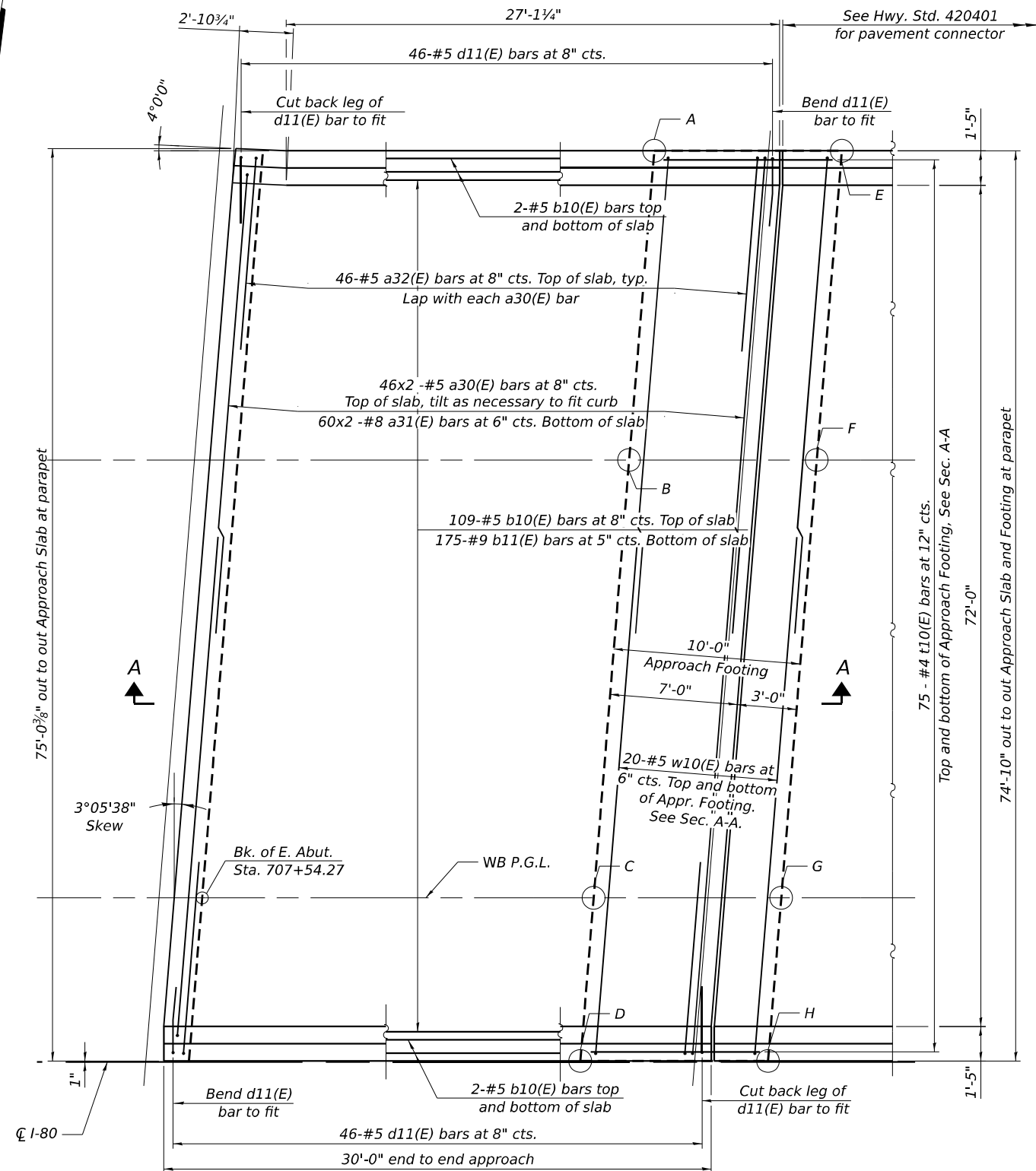
WEST APPROACH SLAB PLAN

*2-#5 b12(E) bars top and bottom of slab



NOTES:

1. See Sheet SB-29 of SB-53 for Section A-A.
2. See Sheet SB-30 of SB-53 for Bill of Material and Additional Notes.



EAST APPROACH SLAB PLAN

MINIMUM BAR LAP

#5 Bar = 3'-4"
#8 Bar = 4'-9"



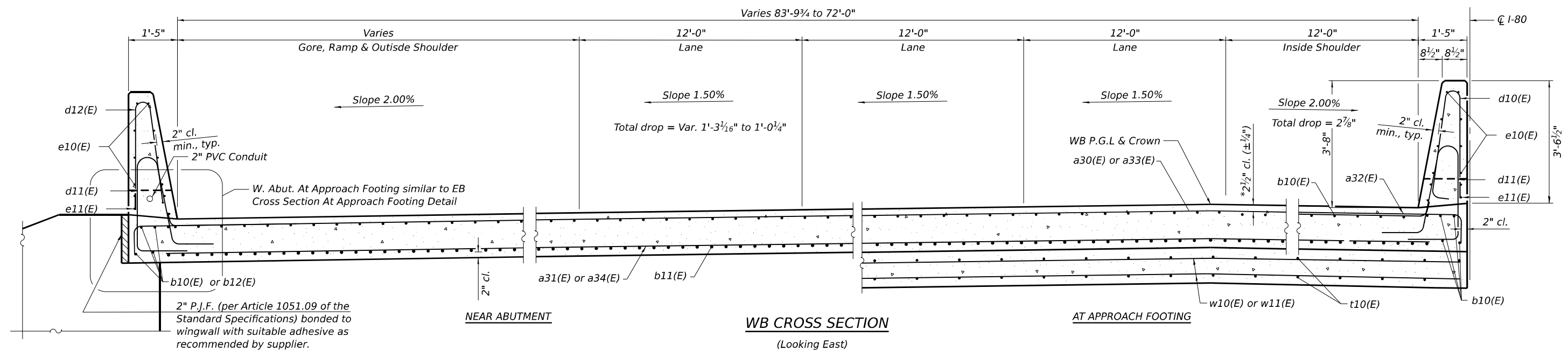
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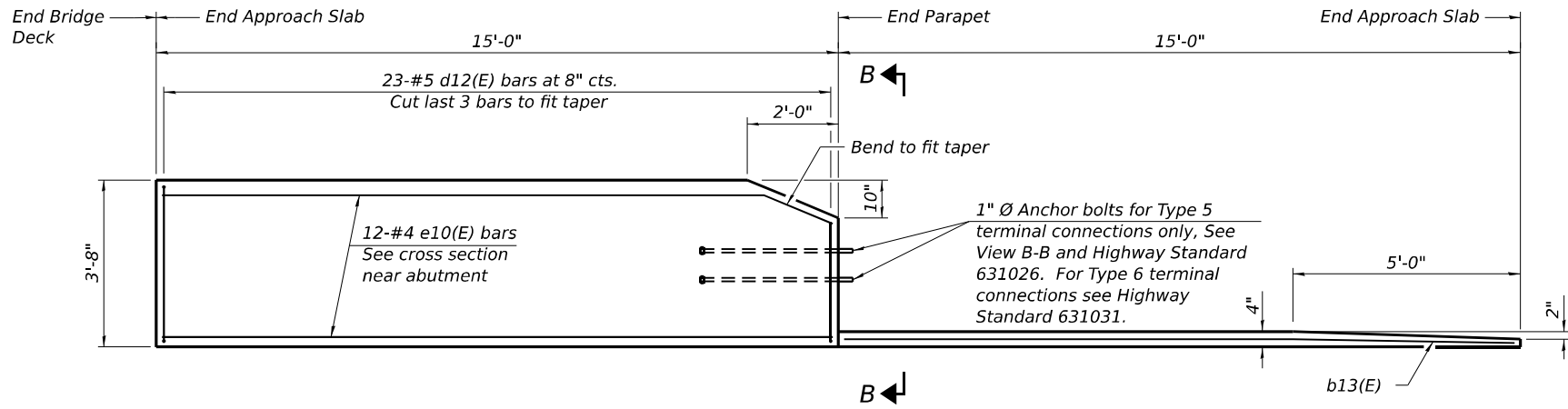
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLABS - WB
STRUCTURE NO. 099-8310

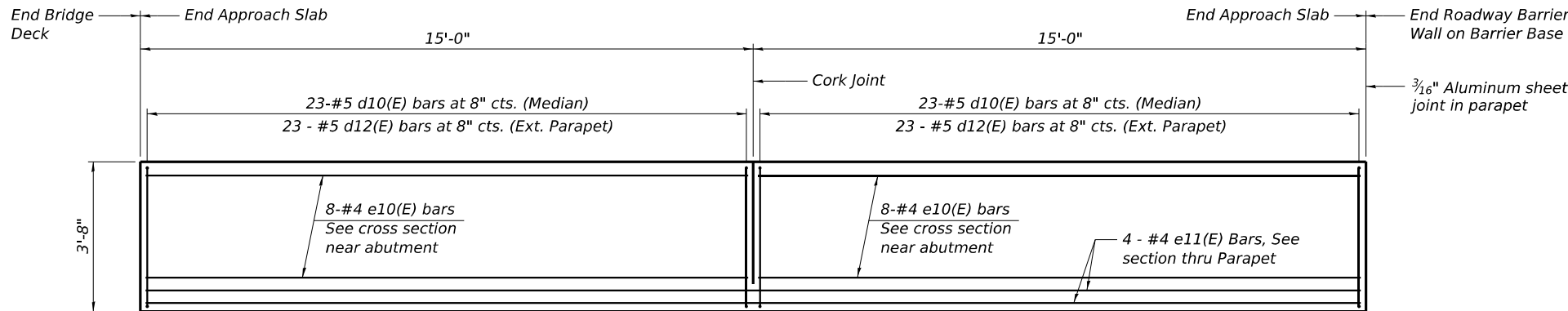
SHEET SB-27 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	803
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

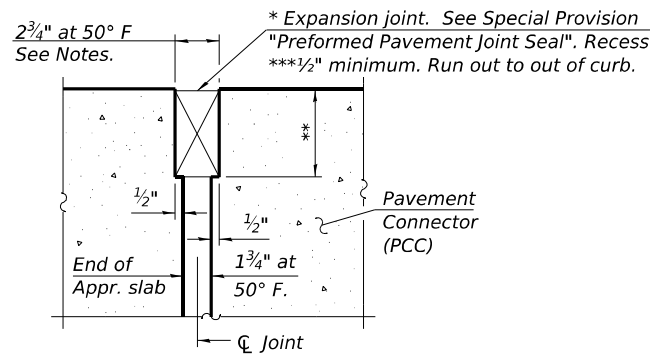




INSIDE ELEVATION OF PARAPET AND CURB
(West Approach Exterior Parapets Only)

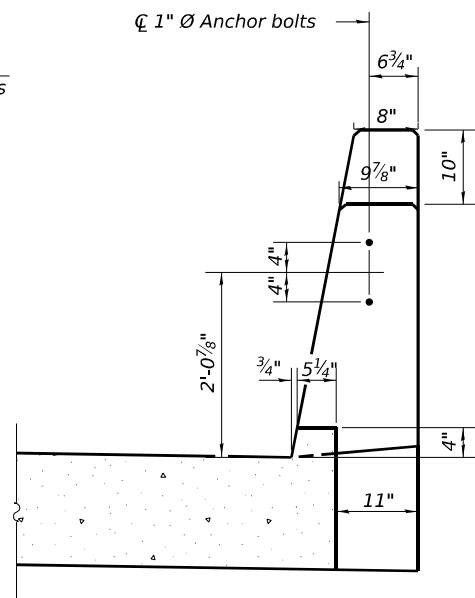


INSIDE ELEVATION OF PARAPET
(Parapets, typ. unless noted otherwise)

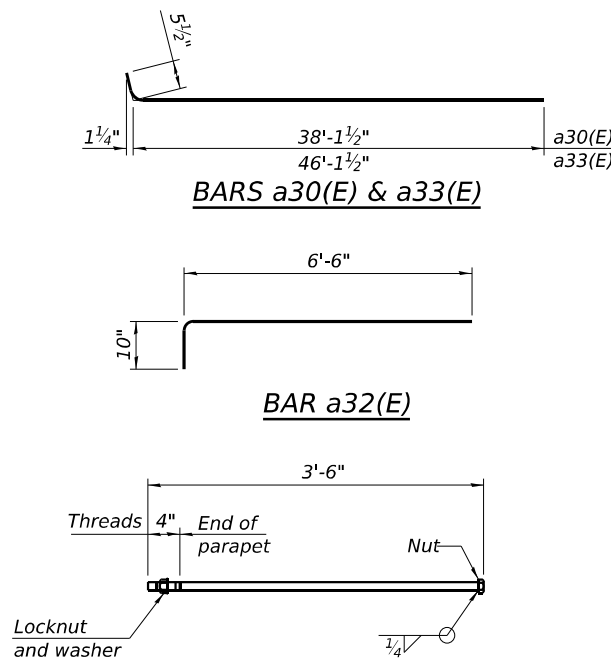


DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations
*** Prior to grinding.



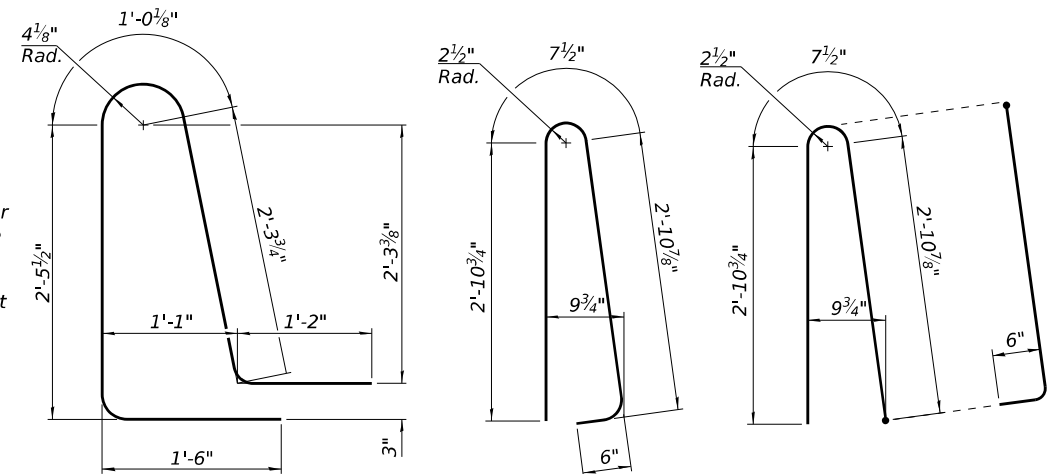
VIEW B-B



*** 1" Ø ANCHOR BOLT**
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

NOTES:

- The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
- Parapet concrete shall be paid for as Concrete Superstructure.
- Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
- Approach footing concrete shall be paid for as Concrete Structures.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.
- See Sheet SB-23 of SB-53 for Parapet Joint Details and Median Joint Detail.



WB APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	92	#5	38'-7"	
a31(E)	120	#8	38'-10"	
a32(E)	161	#5	7'-4"	
a33(E)	92	#5	46'-7"	
a34(E)	120	#8	46'-10"	
b10(E)	245	#5	29'-8"	
b11(E)	373	#9	29'-8"	
b12(E)	4	#5	14'-8"	
b13(E)	1	#4	14'-8"	
d10(E)	92	#5	7'-0"	
d11(E)	161	#5	8'-6"	
d12(E)	69	#5	7'-0"	
e10(E)	60	#4	14'-8"	
e11(E)	12	#4	29'-8"	
t10(E)	322	#4	9'-8"	
w10(E)	40	#5	39'-0"	
w11(E)	40	#5	44'-9"	
Concrete Superstructure			Cu. Yd.	14.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	226.5
Concrete Structures			Cu. Yd.	49.6
Reinforcement Bars, Epoxy Coated			Pound	91,140
Protective Coat			Sq. Yd.	570
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	347
Diamond Grinding (Bridge Section)			Sq. Yd.	490

EB APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	184	#5	38'-7"	
a31(E)	240	#8	38'-10"	
a32(E)	161	#5	7'-4"	
b10(E)	232	#5	29'-8"	
b11(E)	352	#9	29'-8"	
b12(E)	4	#5	14'-8"	
b13(E)	1	#4	14'-8"	
d10(E)	92	#5	7'-0"	
d11(E)	161	#5	8'-6"	
d12(E)	69	#5	7'-0"	
e10(E)	60	#4	14'-8"	
e11(E)	12	#4	29'-8"	
t10(E)	304	#4	9'-8"	
w10(E)	80	#5	39'-0"	
Concrete Superstructure			Cu. Yd.	14.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	213.6
Concrete Structures			Cu. Yd.	46.6
Reinforcement Bars, Epoxy Coated			Pound	84,930
Protective Coat			Sq. Yd.	539
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	346
Diamond Grinding (Bridge Section)			Sq. Yd.	459
Preformed Joint Seal, 3 1/2"			Foot	60

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS II
STRUCTURE NO. 099-8310

SHEET SB-30 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	806
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

BURNS
MCDONNELL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

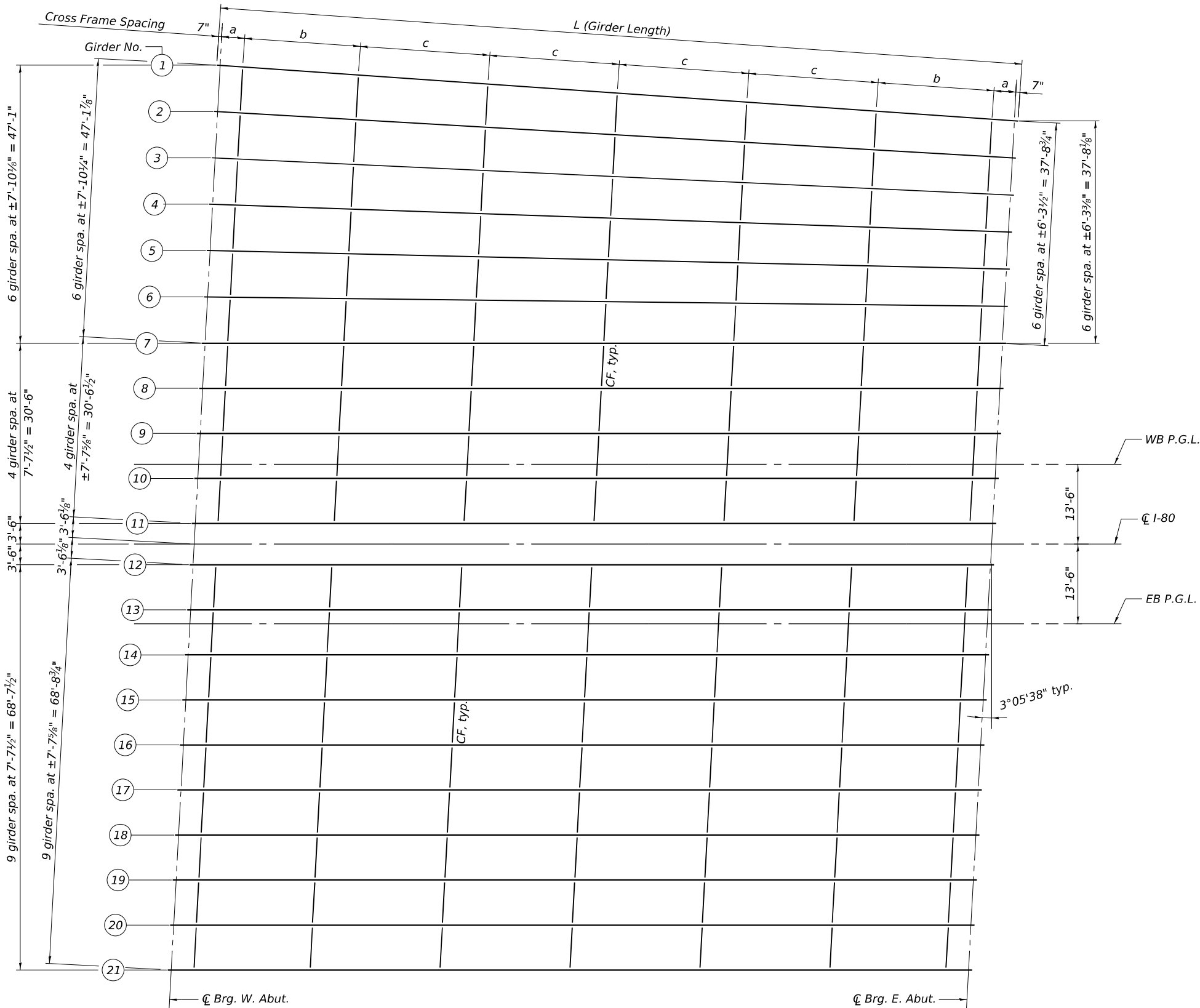
FRAMING PLAN
STRUCTURE NO. 099-8310

SHEET SB-31 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	807
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

GIRDER AND CROSS FRAME SPACING DIMENSIONS

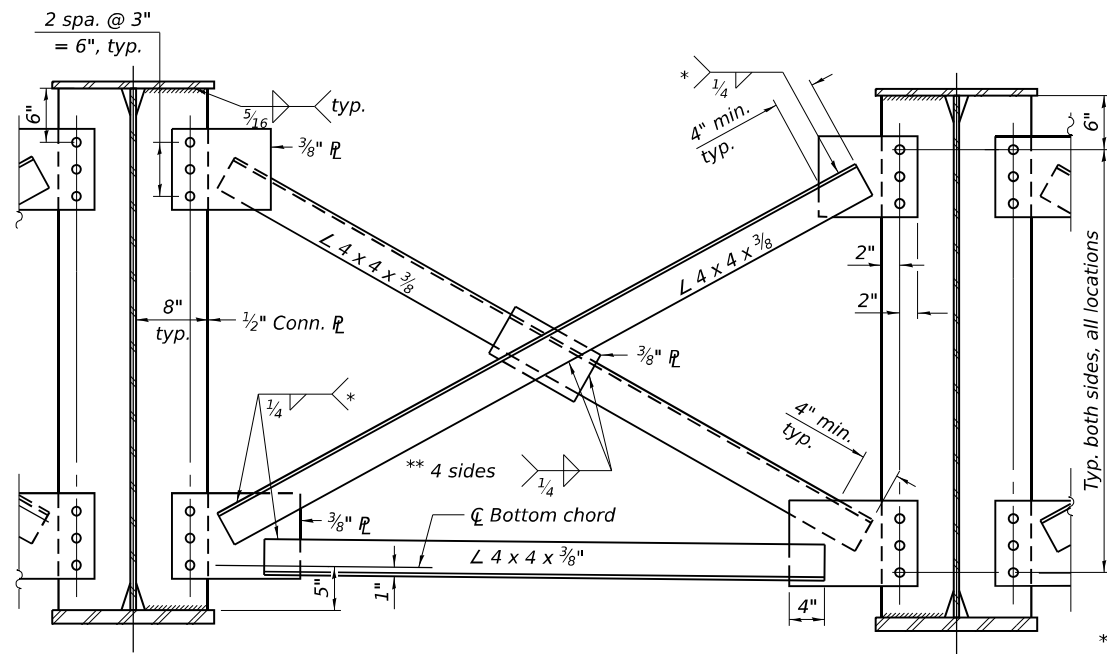
Girder No.	L	a	b	c
1	135'-11 ¹³ / ₁₆ "	3'-10"	19'-7 ³ / ₈ "	21'-11 ³ / ₈ "
2	135'-11 ⁵ / ₈ "	3'-9 ¹⁵ / ₁₆ "	19'-7 ³ / ₈ "	21'-11 ³ / ₈ "
3	135'-11 ¹¹ / ₁₆ "	3'-9 ¹⁵ / ₁₆ "	19'-7 ³ / ₈ "	21'-11 ³ / ₈ "
4	135'-11 ¹⁵ / ₁₆ "	3'-10"	19'-7 ¹¹ / ₁₆ "	21'-11 ¹¹ / ₁₆ "
5	136'-0 ³ / ₈ "	3'-10"	19'-7 ³ / ₄ "	21'-11 ³ / ₄ "
6	136'-1 ¹ / ₁₆ "	3'-10"	19'-7 ¹³ / ₁₆ "	21'-11 ⁷ / ₈ "
7 - 21	136'-2"	3'-10 ¹ / ₁₆ "	19'-7 ¹³ / ₁₆ "	22'-0"



FRAMING PLAN

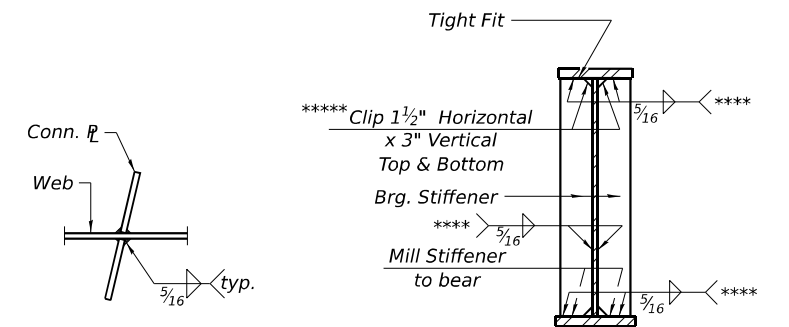
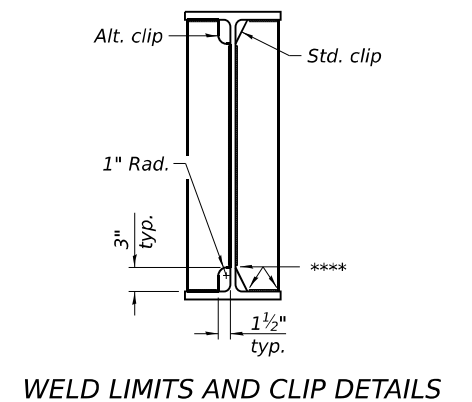
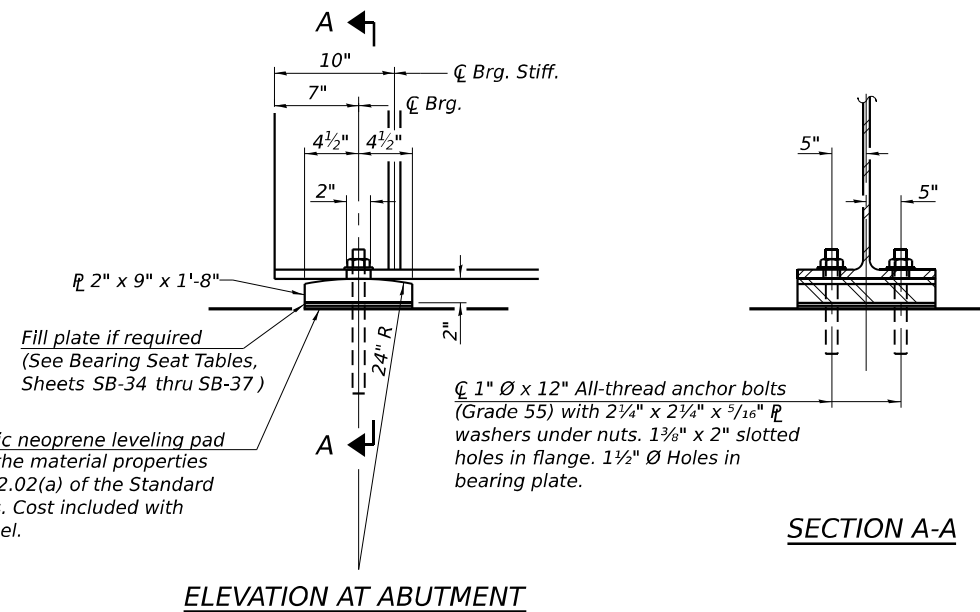
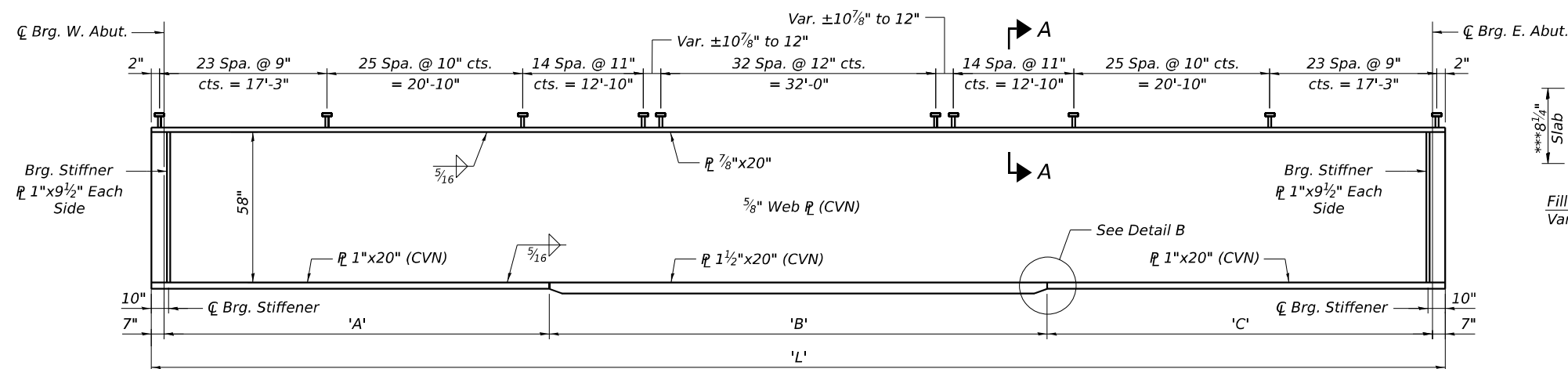
NOTE:

1. Dimensions measured along ϕ of girder and to ϕ of bearing.



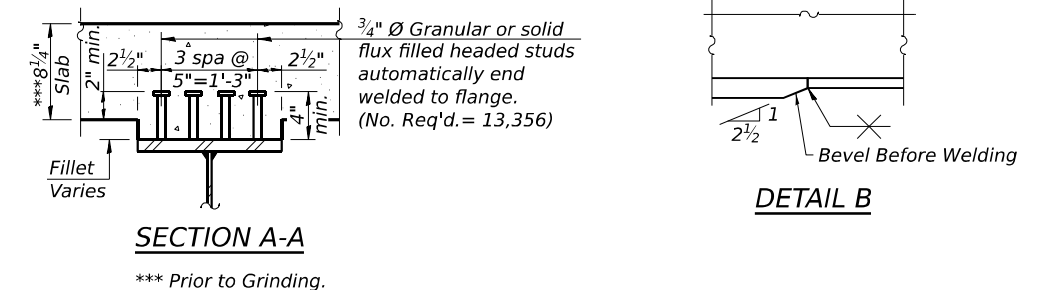
NOTES:

1. All plate girders and bearing stiffeners, shall be AASHTO M270 Grade 50.
2. Detail $1\frac{5}{16}$ " Ø holes for all $\frac{3}{4}$ " Ø bolts.
3. Two hardened washers required for each set of oversized holes.
4. Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement Zone 2.
5. All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.
6. Cross frame connection plates not shown on girder elevation. For locations see Framing Plan.
7. Anchor bolts shall be according to Article 521.06 of the Standard Specifications.
8. Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
9. Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
10. All (embedded and separate) bearing plates, anchor bolts, nuts and washers shall be galvanized according to AASHTO M111 or M232 as applicable.



GIRDER DIMENSIONS

Girder No.	L	A	B	C
1	135'-11 ¹³ / ₁₆ "	41'-0"	53'-0"	40'-9 ¹³ / ₁₆ "
2	135'-11 ¹⁵ / ₁₆ "	41'-0"	53'-0"	40'-9 ⁵ / ₈ "
3	135'-11 ¹¹ / ₁₆ "	41'-0"	53'-0"	40'-9 ¹¹ / ₁₆ "
4	135'-11 ¹⁵ / ₁₆ "	41'-0"	53'-0"	40'-9 ¹⁵ / ₁₆ "
5	136'-0 ³ / ₈ "	41'-0"	53'-0"	40'-10 ³ / ₈ "
6	136'-1 ¹ / ₁₆ "	41'-0"	53'-0"	40'-11 ¹ / ₁₆ "
7-21	136'-2"	41'-0"	53'-0"	41'-0"



<i>Item</i>	<i>Unit</i>	<i>Quantity</i>
<i>Anchor Bolts, 1"</i>	<i>Each</i>	<i>84</i>

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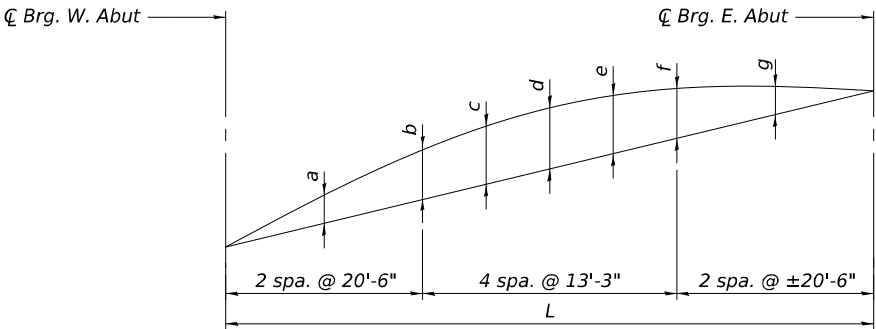
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PLOT DATE	=	CHECKED	-	SLM	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MOMENT & REACTION TABLES
STRUCTURE NO. 099-8310

SHEET SB-33 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	809
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	



CAMBER DIAGRAM

CAMBER DIMENSIONS

Girder No.	a	b	c	d	e	f	g	L
1	2¾"	5"	5¾"	6¾"	6"	5¼"	3"	134'-9 ¹³ / ₁₆ "
2								134'-9 ⁹ / ₈ "
3								134'-9 ¹¹ / ₁₆ "
4								134'-9 ¹⁵ / ₁₆ "
5	2¾"	4¾"	5½"	6"	5¾"	5"	3"	134'-10 ³ / ₈ "
6								134'-11 ¹ / ₁₆ "
7								135'-0"
8 - 21	2¾"	5"	5¾"	6¾"	6"	5¼"	3"	135'-0"

INTERIOR GIRDER REACTION TABLE		
LLDF		Abut. 0.788
OCF		1.011
R _{DC1}	(k)	75.0
R _{DC2}	(k)	12.8
R _{DW}	(k)	25.7
R _ℓ	(k)	87.7
R _{IM}	(k)	17.6
R _{Total} (Strength I)(Impact)	(k)	332.7
R _{Total} (Strength I)(No Impact)	(k)	301.9

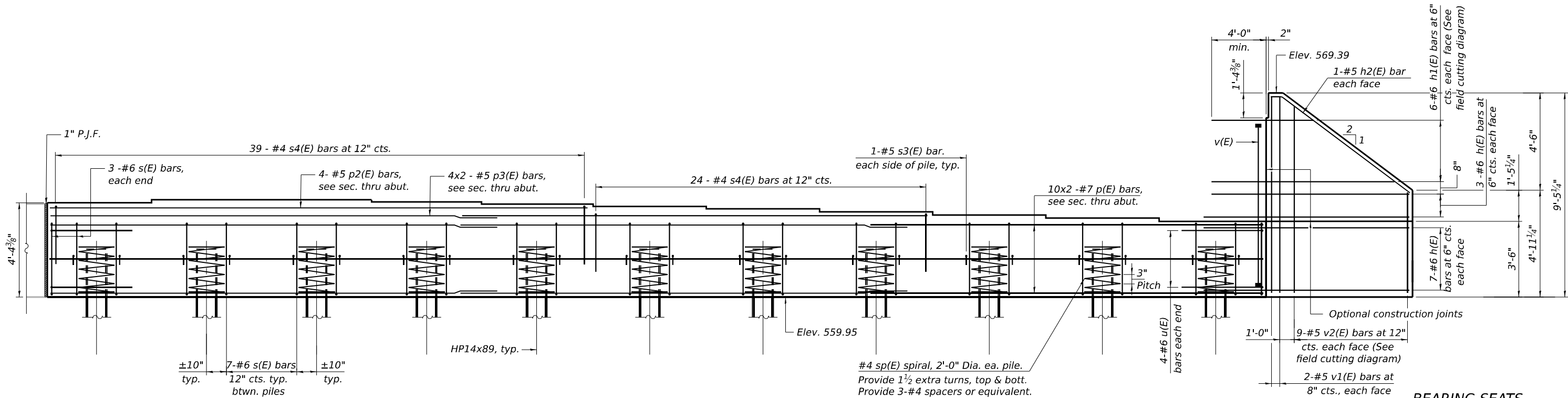
EXTERIOR GIRDER REACTION TABLE		
LLDF		Abut. 0.741
OCF		1.011
R _{DC1}	(k)	76.5
R _{DC2}	(k)	12.8
R _{DW}	(k)	24.7
R _ℓ	(k)	82.5
R _{IM}	(k)	16.6
R _{Total} (Strength I)(Impact)	(k)	322.1
R _{Total} (Strength I)(No Impact)	(k)	293.1

TOP OF WEB ELEVATIONS

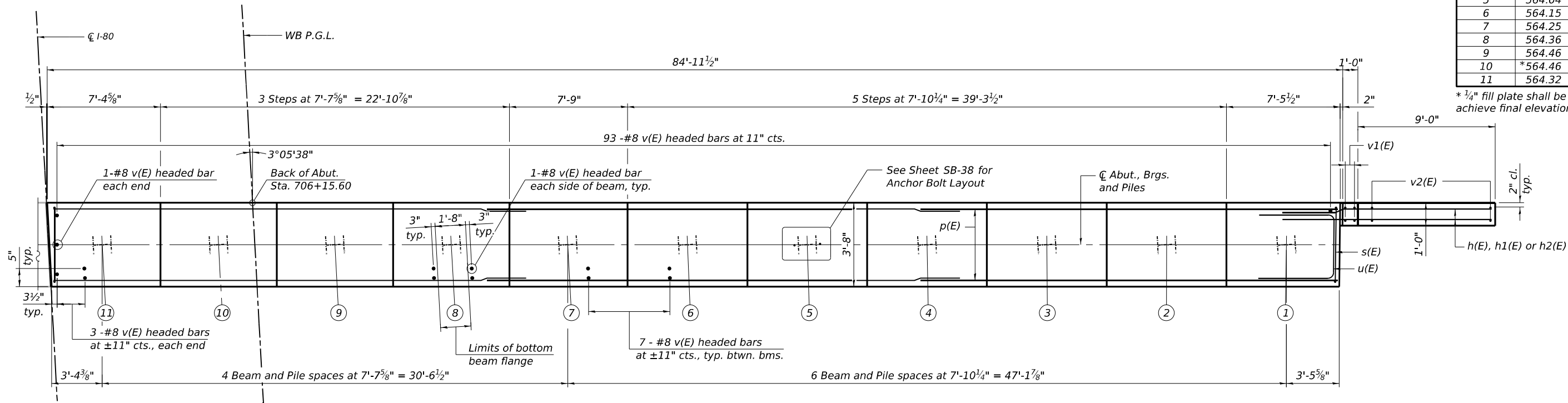
(For fabrication use only)

Girder No.	℄ Brg. W. Abut.	℄ Brg. E. Abut.
1	568.55	572.23
2	568.69	572.35
3	568.84	572.46
4	568.99	572.58
5	569.13	572.68
6	569.24	572.77
7	569.35	572.85
8	569.45	572.96
9	569.55	573.06
10	569.57	573.09
11	569.41	572.92
12	569.40	572.91
13	569.54	573.06
14	569.68	573.20
15	569.82	573.34
16	569.92	573.44
17	569.90	573.42
18	569.78	573.30
19	569.62	573.14
20	569.45	572.97
21	569.29	572.81

- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).
- S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
- M_{ℓ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u : Strength I load combination of factored design moments (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}
- f_ℓ : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).
- Φ_f M_n : Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).
- f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_s
- f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_c (3n) or M_{DC2} / S_c (cr) as applicable.
- f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_c (3n) or M_{DW} / S_c (cr) as applicable.
- f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{ℓ + IM} / S_c (n) or M_{ℓ + IM} / S_c (cr) as applicable.
- f_s + f_ℓ / 2 (Service II): Sum of stresses as computed below (ksi).
f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (ℓ + IM) + f_ℓ / 2
- Service II Resistance: Composite (0.95R_nF_{yℓ}) or noncomposite (0.80R_nF_{yℓ}) stress capacity according to Article 6.10.4.2 (ksi).
- f_s + f_ℓ / 3 (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (ℓ + IM) + f_ℓ / 3
- Φ_f F_n : Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).
- V_f : Maximum factored shear range in span computed according to Article 6.10.10.
- OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
- R_{DC1}: Un-factored reaction due to non-composite dead load (kip).
- R_{DC2}: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
- R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
- R_ℓ : Un-factored live load reaction (kip).
- R_{IM} : Un-factored dynamic load allowance (impact) (kip).
- R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_ℓ + R_{IM})
- R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_ℓ)



ELEVATION
(Looking West)



PLAN

MINIMUM BAR LAP

#5 Bar = 3'-7"
#6 Bar = 4'-0"
#7 Bar = 5'-0"

NOTE:

1. See Sheet SB-38 of SB-53 for bar cutting diagrams, typical section, bar diagrams, bill of material and additional notes.

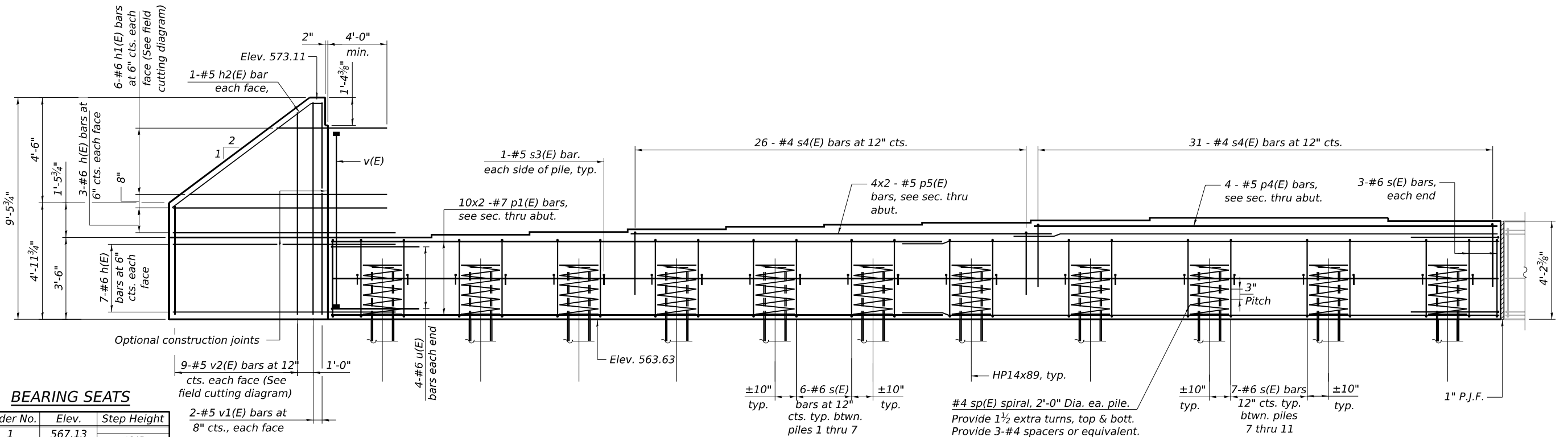
BEARING SEATS

Girder No.	Elev.	Step Height
1	563.45	1 3/4"
2	563.60	1 3/4"
3	563.75	1 3/4"
4	563.89	1 3/4"
5	564.04	1 3/4"
6	564.15	1 3/4"
7	564.25	1 3/4"
8	564.36	1 3/4"
9	564.46	1 3/4"
10	*564.46	0"
11	564.32	1 3/4"

* 1/4" fill plate shall be provided to achieve final elevation of 564.48.

USER NAME	=	DESIGNED	-	ECK	REVISED	-
PLOT SCALE	=	CHECKED	-	GEK	REVISED	-
PLOT DATE	=	DRAWN	-	ECK	REVISED	-
		CHECKED	-	KMD	REVISED	-

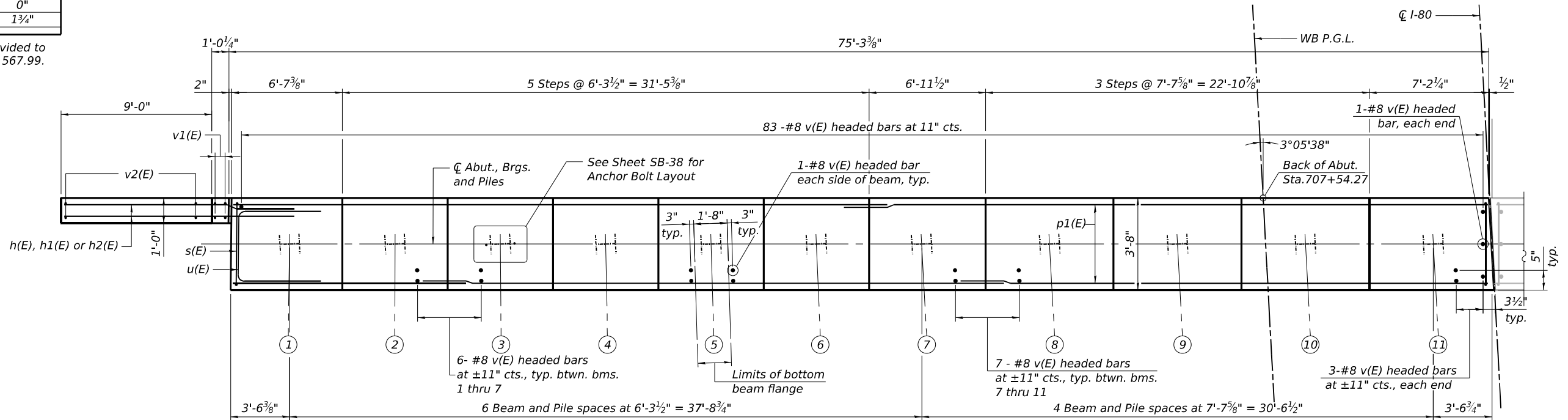
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	810
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



BEARING SEATS

Girder No.	Elev.	Step Height
1	567.13	1 3/8"
2	567.25	1 3/8"
3	567.37	1 3/8"
4	567.49	1 3/8"
5	567.59	1 1/4"
6	567.68	1"
7	567.76	1"
8	567.87	1 1/4"
9	567.97	1 1/4"
10	* 567.97	0"
11	567.83	1 3/4"

* 1/4" fill plate shall be provided to achieve final elevation of 567.99.



PILE DATA

Type: HP14x89 with pile shoes
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 54 ft
No. Production Piles: 10
No. Test Piles: 1

MINIMUM BAR LAP

#5 Bar = 3'-7"
#6 Bar = 4'-0"
#7 Bar = 5'-0"

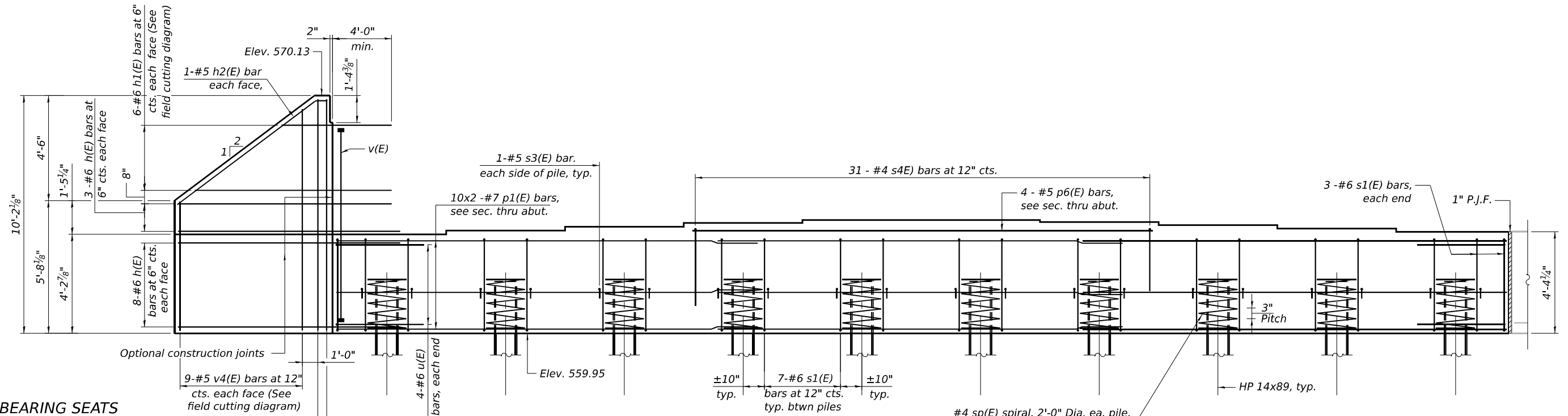
PLAN

NOTE:

1. See Sheet SB-38 of SB-53 for bar cutting diagrams, typical section, bar diagrams, bill of material and additional notes.

USER NAME =	DESIGNED - ECK	REVISED -
PLOT SCALE =	CHECKED - GEK	REVISED -
PLOT DATE =	DRAWN - ECK	REVISED -
	CHECKED - KMD	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	811
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

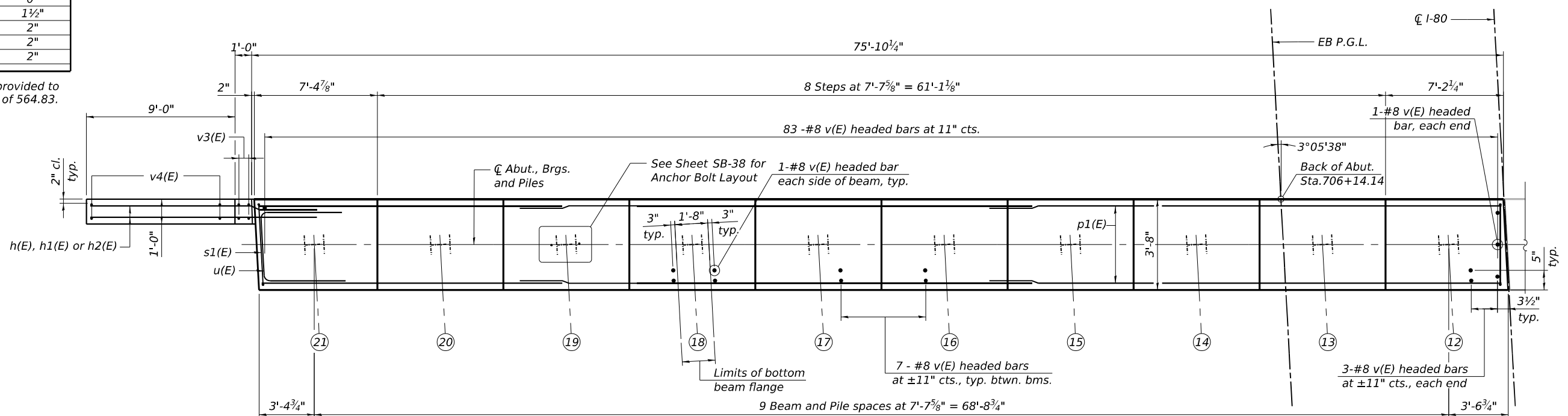


ELEVATION
(Looking West)

BEARING SEATS

Girder No.	Elev.	Step Height
12	564.31	1 3/4"
13	564.45	1 3/4"
14	564.59	1 5/8"
15	564.73	1"
16	*564.81	0"
17	564.81	1 1/2"
18	564.68	2"
19	564.52	2"
20	564.36	2"
21	564.20	2"

* 1/4" fill plate shall be provided to achieve final elevation of 564.83.



PLAN

PILE DATA

Type: HP14x89 with pile shoes
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 57 ft
No. Production Piles: 10
No. Test Piles: 0

MINIMUM BAR LAP

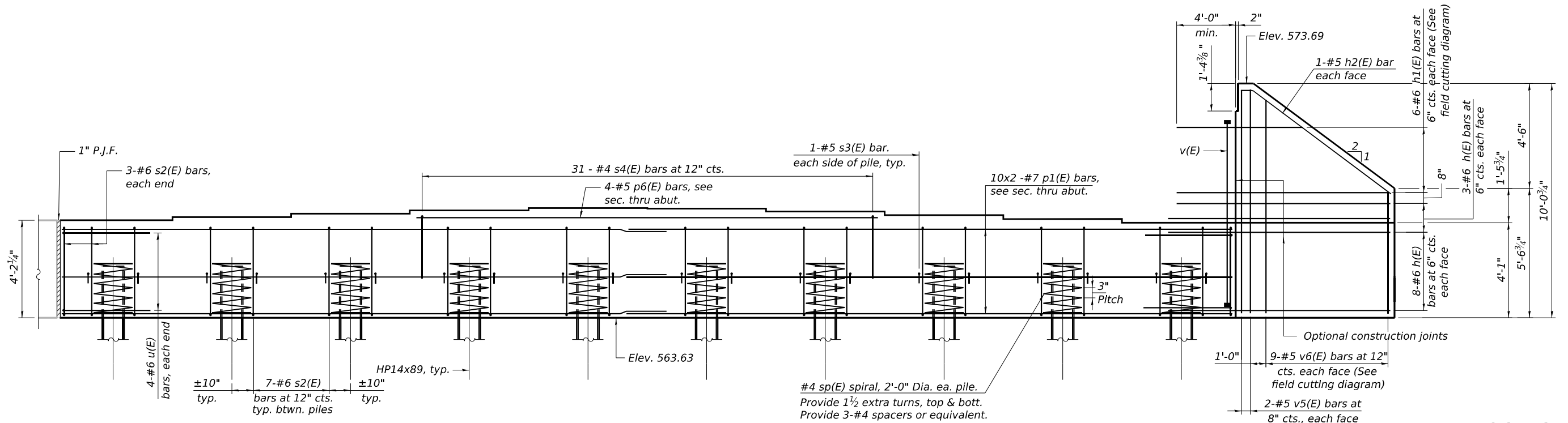
#5 Bar = 3'-7"
#6 Bar = 4'-0"
#7 Bar = 5'-0"

NOTE:

1. See Sheet SB-38 of SB-53 for bar cutting diagrams, typical section, bar diagrams, bill of material and additional notes.

USER NAME =	DESIGNED - ECK	REVISED -
PLOT SCALE =	CHECKED - GEK	REVISED -
PLOT DATE =	DRAWN - ECK	REVISED -
	CHECKED - KMD	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	812
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

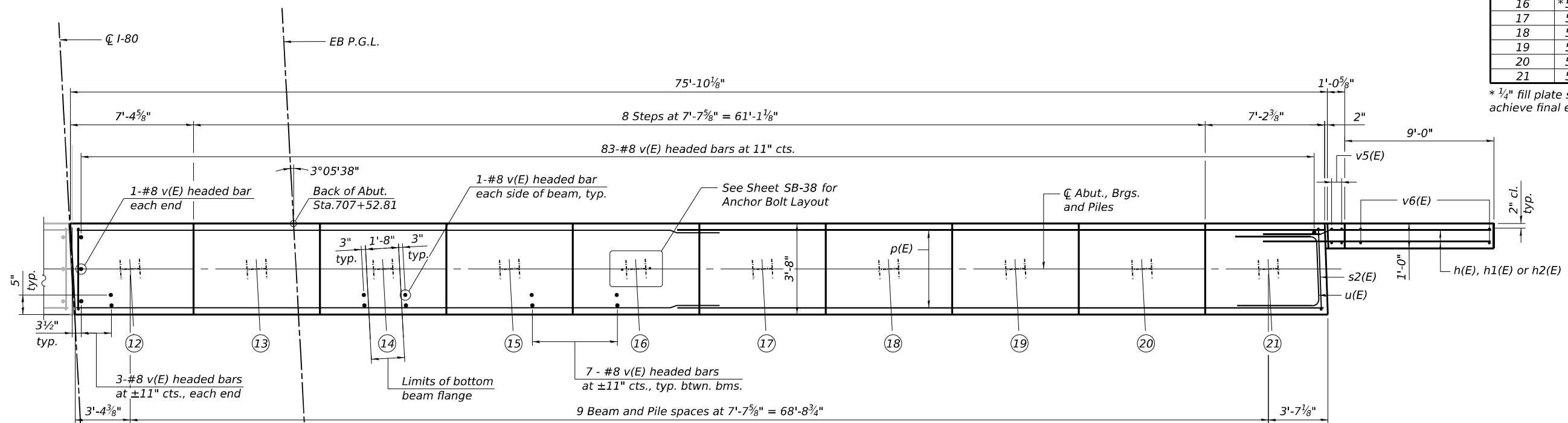


ELEVATION
(Looking East)

BEARING SEATS

Girder No.	Elev.	Step Height
12	567.82	1 3/4"
13	567.96	1 3/4"
14	568.10	1 3/8"
15	568.24	1"
16	*568.33	0"
17	568.33	1 1/2"
18	568.20	1 7/8"
19	568.04	2"
20	567.88	2"
21	567.72	2"

* 1/4" fill plate shall be provided to achieve final elevation of 568.35.



PLAN

PILE DATA

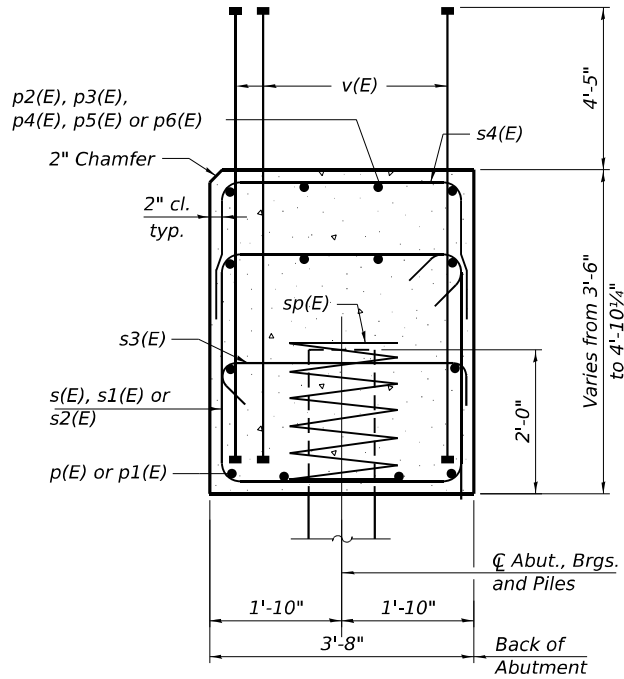
Type: HP14x89 with pile shoes
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 54 ft
No. Production Piles: 10
No. Test Piles: 0

MINIMUM BAR LAP

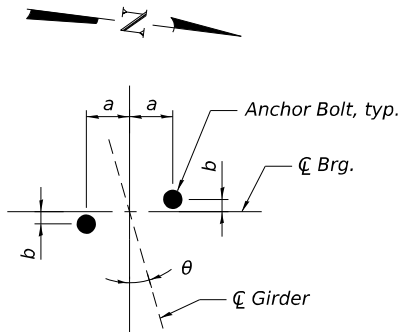
#5 Bar = 3'-7"
#6 Bar = 4'-0"
#7 Bar = 5'-0"

NOTE:

1. See Sheet SB-38 of SB-53 for bar cutting diagrams, typical section, bar diagrams, bill of material and additional notes.



SEC. THRU ABUT.

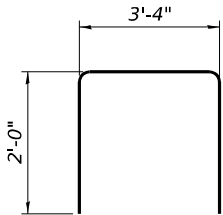


ANCHOR BOLT LAYOUT

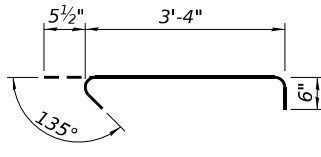
Girder	Skew θ	a	b
1	-0°54'22.2"	5"	-1/16"
2	-0°14'20.6"	5"	0"
3	0°25'41.2"	5"	1/16"
4	1°05'42.6"	5"	1/8"
5	1°45'42.9"	5"	1/8"
6	2°25'41.5"	5"	3/16"
7-21	3°05'37.8"	5"	1/4"

NOTES:

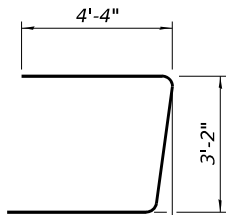
1. Pour steps monolithically with cap.
2. Bar terminators paid for separately. See Total Bill of Material.
3. For details of piles see sheet SB-42 of SB-53.
4. Abutment H-piles shall be oriented with flanges parallel to C I-80.



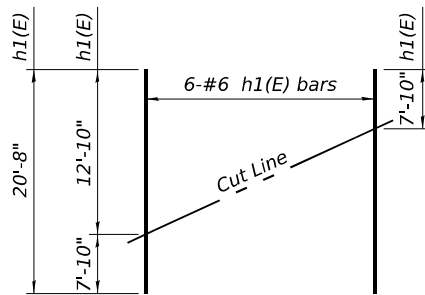
BAR s4(E)



BAR s3(E)

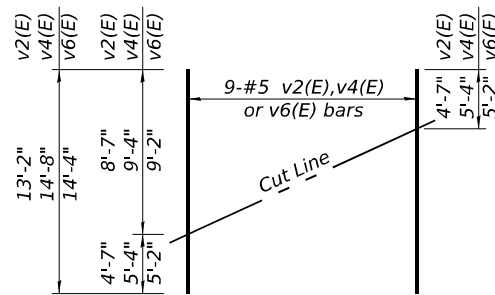


BAR u(E)



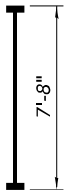
FIELD CUTTING DIAGRAM

Order h1(E) full length. Cut as shown and use remainder of bars in opposite wing.



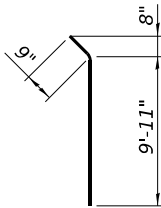
FIELD CUTTING DIAGRAM

Order v2(E), v4(E) and v6(E) full length. Cut as shown and use remainder of bars in opposite wing.

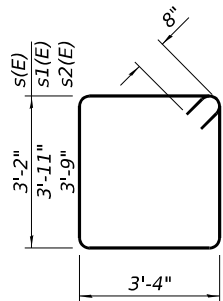


BAR v(E)

(Headed 1436-#8 Bar Terminators)



BAR h2(E)



BARS s(E), s1(E) & s2(E)

WB ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#6	14'-0"	—
h1(E)	24	#6	20'-8"	—
h2(E)	4	#5	10'-8"	—
p(E)	20	#7	44'-10"	—
p1(E)	20	#7	40'-1"	—
p2(E)	4	#5	37'-8"	—
p3(E)	8	#5	32'-5"	—
p4(E)	4	#5	36'-11"	—
p5(E)	8	#5	29'-8"	—
s(E)	146	#6	14'-4"	—
s3(E)	44	#5	4'-4"	—
s4(E)	120	#4	7'-4"	—
sp(E)	22	#4	2'-0"	—
u(E)	16	#6	11'-10"	—
v(E)	370	#8	7'-8"	—
v1(E)	8	#5	9'-1"	—
v2(E)	36	#5	13'-2"	—
Concrete Structures			Cu. Yd.	99.3
Reinforcement Bars, Epoxy Coated			Pound	19,310
Furnishing Steel Piles HP14x89			Foot	1,110
Driving Piles			Foot	1,110
Test Pile Steel HP14x89			Each	2
Pile Shoes			Each	22

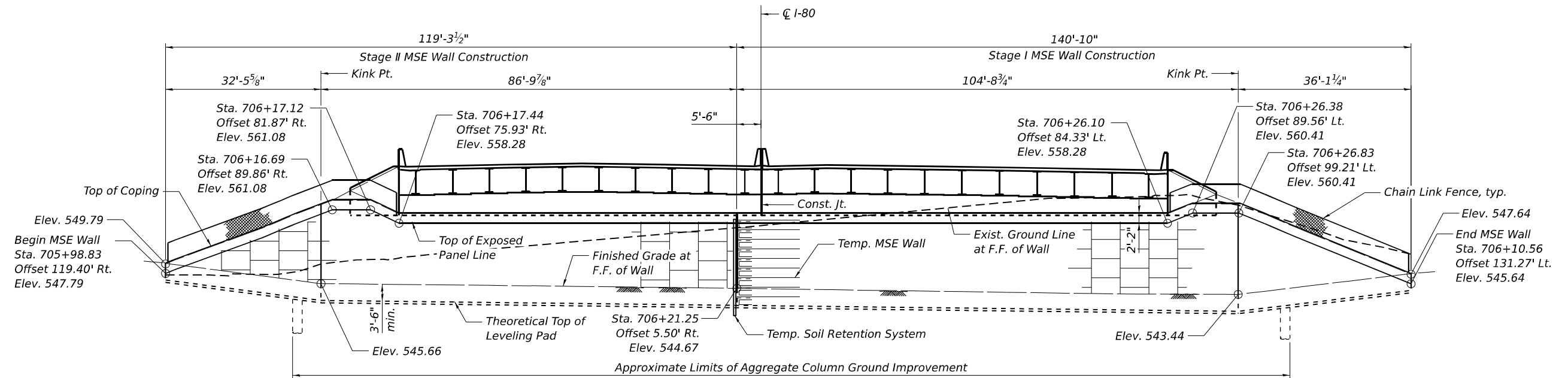
* Length is height of spiral.

EB ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	44	#6	14'-0"	—
h1(E)	24	#6	20'-8"	—
h2(E)	4	#5	10'-8"	—
p1(E)	40	#7	44'-10"	—
p6(E)	8	#5	30'-3"	—
s1(E)	69	#6	15'-6"	—
s2(E)	69	#6	15'-10"	—
s3(E)	40	#5	4'-4"	—
s4(E)	62	#4	7'-4"	—
sp(E)	20	#4	2'-0"	—
u(E)	16	#6	11'-10"	—
v(E)	348	#8	7'-8"	—
v3(E)	4	#5	9'-10"	—
v4(E)	18	#5	14'-8"	—
v5(E)	4	#5	9'-8"	—
v6(E)	18	#5	14'-4"	—
Concrete Structures			Cu. Yd.	94.0
Reinforcement Bars, Epoxy Coated			Pound	18,330
Furnishing Steel Piles HP14x89			Foot	1,110
Driving Piles			Foot	1,110
Pile Shoes			Each	20

USER NAME =	DESIGNED - ECK	REVISED -
CHECKED - GEK	REVISED -	
PLOT SCALE =	DRAWN - ECK	REVISED -
PLOT DATE =	CHECKED - KMD	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	814
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

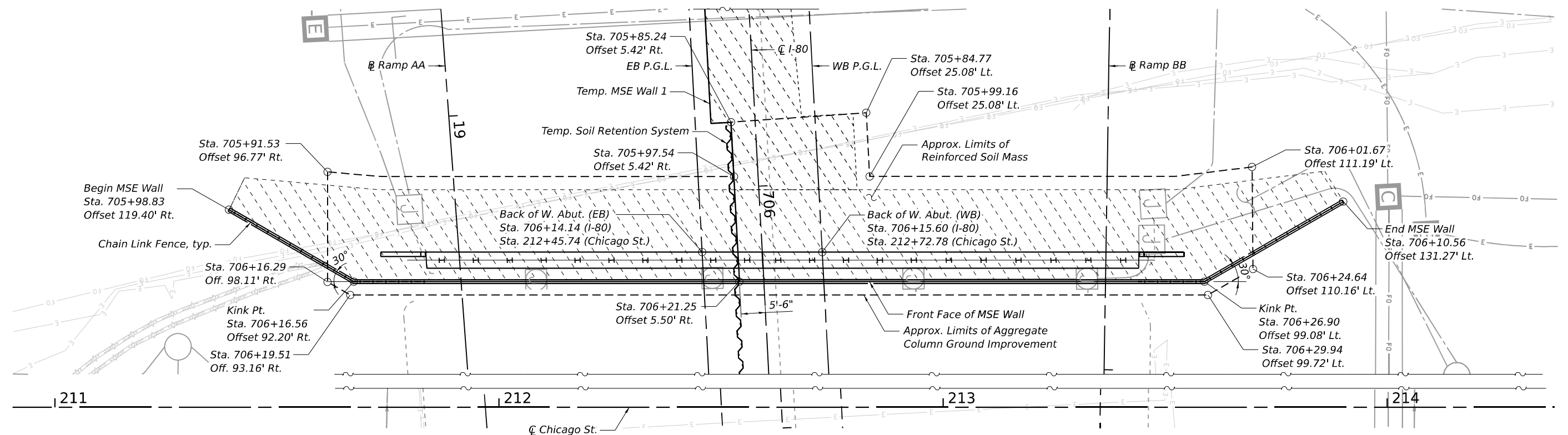


WEST MSE WALL ELEVATION

(Unfolded, Looking West)

NOTES:

1. Stations and offsets are measured from CL I-80 to the front face of wall.
2. Dimensions are measured along the front face of wall.
3. See Sheet SB-7 of SB-53 for Temp MSE Wall limits and details.



WEST MSE WALL PLAN



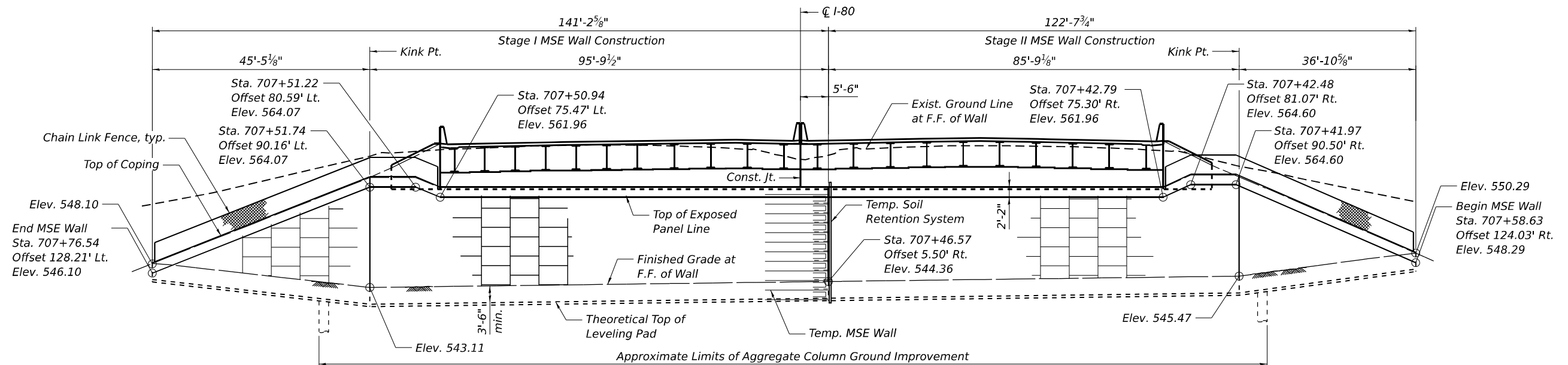
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST MSE WALL PLAN & ELEVATION
STRUCTURE NO. 099-8310

SHEET SB-39 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	815
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

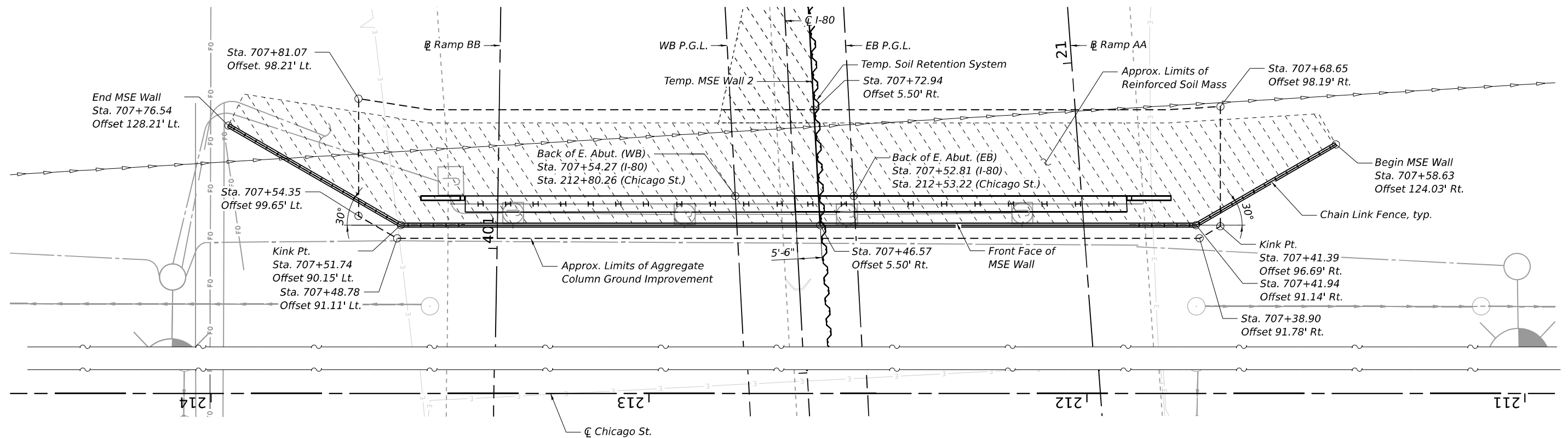
USER NAME =	DESIGNED - ECK	REVISED -
PLOT SCALE =	CHECKED - GEK	REVISED -
PLOT DATE =	DRAWN - ECK	REVISED -
	CHECKED - KMD	REVISED -



EAST MSE WALL ELEVATION
(Unfolded, Looking East)

NOTES:

1. Stations and offsets are measured from CL I-80 to the front face of wall.
2. Dimensions are measured along the front face of wall.
3. See Sheet SB-7 of SB-53 for temporary MSE wall limits and details.



EAST MSE WALL PLAN

MODEL: Default
FILE NAME: 0998310-62F9-040-EMSE.dgn



USER NAME =	DESIGNED - ECK	REVISED -
PLOT SCALE =	CHECKED - GEK	REVISED -
PLOT DATE =	DRAWN - ECK	REVISED -
	CHECKED - KMD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MSE WALL PLAN & ELEVATION
STRUCTURE NO. 099-8310

SHEET SB-40 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	816
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

10/27/2025 5:00:18 PM



H-Pile

Commercial splicer

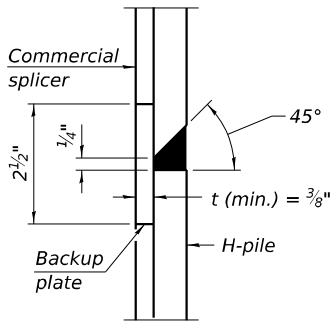
5/16

Typ. along splicer

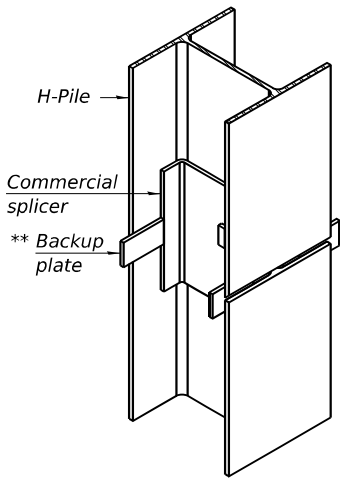
Typ.

See Detail B

ELEVATION

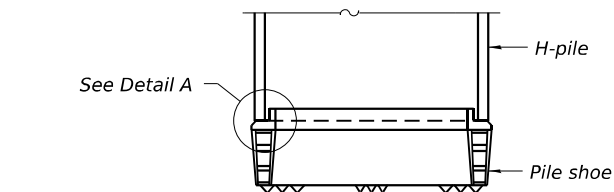


DETAIL B

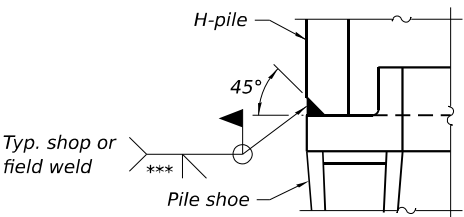


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



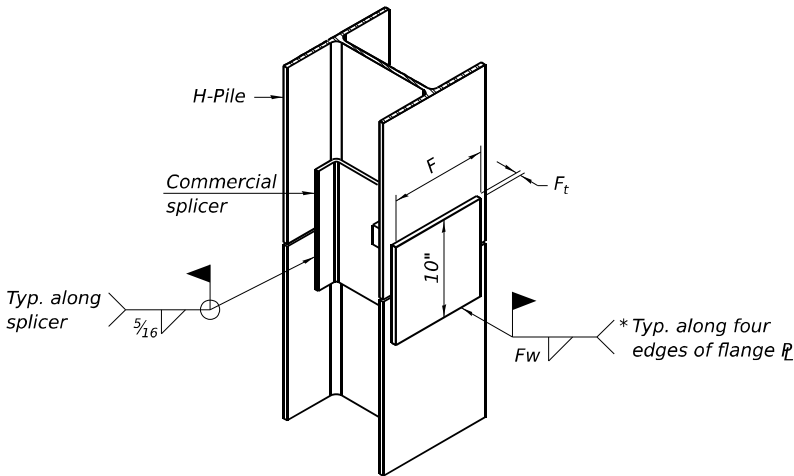
ELEVATION



DETAIL A

SHOE ATTACHMENT

Note:
The steel H-piles shall be according to
AASHTO M270 Grade 50.



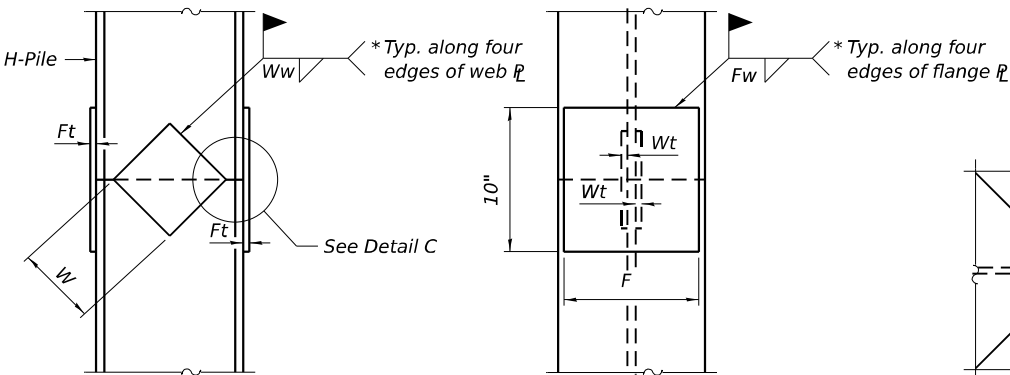
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds $\frac{1}{4}$ " from end of web and/or each flange.

**** Remove portions of backup plates that extend outside the flanges.**

*** Weld size per pile shoe manufacturer ($\frac{5}{16}$ " min.).

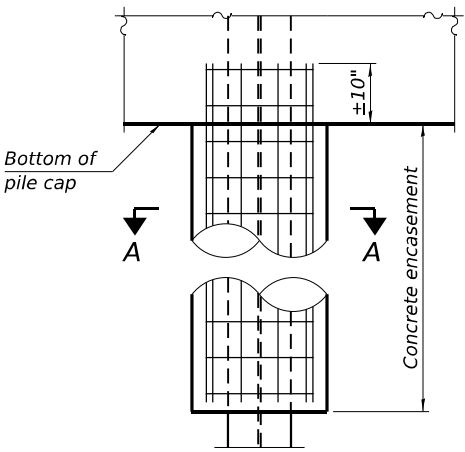


ELEVATION

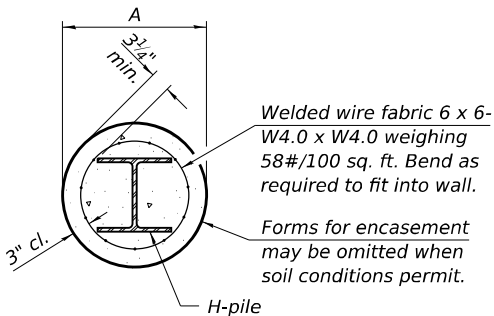
END VIEW

DETAIL C

WELDED PLATE FIELD SPLICE



ELEVATION



SECTION A-A

INDIVIDUAL PILE
CONCRETE ENCASEMENT
(when specified)



Page 1 of 2

Date 4/12/22

ROUTE	I-80	DESCRIPTION	I-80 WB over IL 53/US 52 (Chicago Street)	LOGGED BY	DD
--------------	------	--------------------	---	------------------	----

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

COUNTY Will DRILLING RIG B-57 Mobile HAMMER TYPE Auto
 DRILLING METHOD HSA HAMMER EFF. (%) 80

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)



Page 2 of 2

Date 4/12/22

ROUTE	I-80	DESCRIPTION	I-80 WB over IL 53/US 52 (Chicago Street)	LOGGED BY	DD
--------------	------	--------------------	---	------------------	----

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

COUNTY Will DRILLING RIG B-57 Mobilc HAMMER TYPE Auto
 DRILLING METHOD HSA HAMMER EFF. (%) 80

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)

Top

Depth = 32.0 ft
Elev. = 515.3 ft

Depth = 42.0 ft
Elev. = 505.3 ft

Bottom

MODEL: Default
FILE NAME: 0998310-62F94-043-BOR1.dgn



USER NAME	DESIGNED	REVISD
	CHECKED	REVISD
PLOT SCALE	DRAWN	REVISD
PLOT DATE	CHECKED	REVISD

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS I
STRUCTURE NO. 099-8310**

SHEET SB-43 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	819
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		

Top

Bottom

Boring No.	Run	Depth (ft)	Recovery (%)	RQD (%)	RQD Classification	Description
BSB-53	2	42.0' – 47.0'	95.0	76.7	Good	Light Gray Limestone Slightly Weathered, Moderately Fractured, Some Vugs

Page 1 of 2Date 4/7/22

16 inches of Asphalt				Brown and Gray, Moist FILL: SILTY CLAY, trace sand, trace gravel (continued) Trace organics at 21 feet			
568.88	11			3			
	5	3.1	11	5	1.7	21	
	7	B		5	B		
	3			3			
	5	3.1	16	6	1.7	21	
	7	B		9	B		
-5				-25			
	3			544.21	5		
	4	2.3	21		5	2.1	17
	4	B			8	B	
	2				3		
	2	3.1	22		7	3.3	21
	6	B			9	B	
-10				-30			
	2						
	2	1.7	25	538.21			
	4	B					
	2				4		
	5	2.5	17		6	1.7	13
	5	B		-35	10	B	
-15							
	4						
	6	4.8	19	533.21			
	10	B					
	2				21		
	4	2.3	10		24		4
	6	B		-40	14		
-20							

BBS, form 137 (Rev. 8-99)

Page 2 of 2

Date 4/7/22

[illegible]

BBS, form 137 (Rev. 8-99)

USER NAME	=	DESIGNED	-	ECK	REVISED	-
		CHECKED	-	GEK	REVISED	-
PLOT SCALE	=	DRAWN	-	ECK	REVISED	-
PLOT DATE	=	CHECKED	-	IS	REVISED	-

SOIL BORING LOGS II
STRUCTURE NO. 099-8310

SHEET SB-44 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	820
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		



Page 1 of 2

Date 4/5/22

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

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

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

Borehole Method				Moisture Content				Hammer Eff (%)				Soil			
STRUCT. NO.	099-8310			D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev.		D E P T H	B L O W S	U C S	M O I S T		
Station								N/A ft							
								Stream Bed Elev.							
								N/A ft							
BORING NO.	B50-55			Qu				Groundwater Elev.:							
Station	707-9.3039							First Encounter							
Offset	85.45 ft L							Dry							
								ft							
Ground Surface Elev.	570.68 ft			(ft)	(6")	(tsf)	(%)	Upon Completion		(ft)	(6")	(tsf)	(%)		
								N/A 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)



Page 2 of 2

Date 4/5/22

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

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

COUNTY	Will	DRILLING RIG	Latitude - Longitude	HAMMER TYPE	Auto
		DRILLING METHOD	Diedrich D-50	HAMMER EFF (%)	88
			MUD ROTARY		

BORING NO.		DATE		TIME		DRILLER		HAMMER EFF (%)		S&B		MOIST	
STRUCT. NO.	099-8310	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	N/A	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	N/A
Station		TH	WS	Qu	IST	Stream Bed Elev.	N/A	TH	WS	Qu	IST	Stream Bed Elev.	N/A
BORING NO.	BSD-55					Groundwater Elev.:						Groundwater Elev.:	
Station	707+9.3039					First Encounter	Dry					First Encounter	Dry
Offset	85.45 ft LT					Upon Completion	N/A					Upon Completion	N/A
Ground Surface Elev.	570.68 ft	(ft)	(6")	(tsf)	(%)	After	N/A	(ft)	(6")	(tsf)	(%)	After	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)

Depth = 56.0 ft
Elev. = 514.7 ft

Top

Depth = 66.0 ft
Elev. = 504.7 ft

Bottom

MODEL: Default
FILE NAME: 0998310-62F94-045-BOR3.dan



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS III
STRUCTURE NO. 099-8310

10/27/2025 5:00:34 PM

Page 1 of 2Date 4/6/22

ROUTE	DESCRIPTION	LOGGED BY
I-80	I-80 WB over IL 53/US 52 (Chicago Street)	DD

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

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
 DRILLING METHOD USA HAMMER SIZE (in.) 60

STRUCT. NO.	<u>099-8310</u>	D	B	U	M	Surface Water Elev.	<u>N/A</u>	ft	D	B	U	M
Station	<u></u>	E	L	C	O	Stream Bed Elev.	<u>N/A</u>	ft	E	L	C	O
		P	T	S	I				P	T	S	I
BORING NO.	<u>B56-56</u>	H	W	Q	T	Groundwater Elev.:			H	W	Q	T
Station	<u>707+58.1383</u>					First Encounter	<u>Dry</u>	ft				
Offset	<u>88.33 ft LT</u>	(ft)	(6")	(tsf)	(%)	Upon Completion	<u>N/A</u>	ft	(ft)	(6")	(tsf)	(%)
Ground Surface Elev.	<u>571.35</u> ft					After Hrs.	<u>N/A</u>	ft				

Cobbles at 33.5 feet

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 4/6/22

ROUTE	I-80	DESCRIPTION	I-80 WB over IL 53/US 52 (Chicago Street)	LOGGED BY	DD
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SECTION I-80 over Des Plaines River **LOCATION** SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG	Diedrich D-50	HAMMER TYPE	Auto
		DRILLING METHOD	USA	HAMMER SIZE (in)	20

STRUCT. NO. <u>099-8310</u>	D	B	U	M	Surface Water Elev. <u>N/A</u> ft
Station _____	E	L	C	O	Stream Bed Elev. <u>N/A</u> ft
	P	L	S	I	
BORING NO. <u>BSD-56</u>	T	O	Q	S	Groundwater Elev.: _____
Station <u>707+58.1383</u>	H	W	u	T	First Encounter <u>Dry</u> ft
Offset <u>88.33 ft LT</u>					Upon Completion <u>N/A</u> ft
Ground Surface Elev. <u>571.35</u> ft	(ft)	(6")	(tsf)	(%)	After _____ Hrs. <u>N/A</u> ft

1000

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 4/6/22

ROUTE I-80 DESCRIPTION I-80 WB over IL 53/US 52 (Chicago Street) LOGGED BY EH

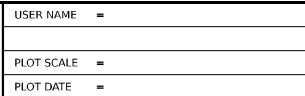
SECTION I-80 over Des Plaines River **LOCATION** SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
 DRILLING METHOD USA HAMMER SIZE (in) 20

STRUCT. NO.	<u> 099-0310 </u>	D	E	R	L	I	M	Surface Water Elev.	<u> N/A </u>	O	S	N	E	R	L	I	M
Station	<u> </u>	P	T	H	W	S	Q	Stream Bed Elev.	<u> N/A </u>	O	S	H	P	T	H	W	S
BORING NO.	<u> BSB-57 </u>	I	C	A	S	T		Ground Surface Elev.:		I	C	A	S	T			
Station	<u> 705+91.5770 </u>							First Encounter	<u> Dry </u>								
Offset	<u> 3.12 ft LT </u>							Upon Completion	<u> N/A </u>								
Ground Surface Elev.	<u> 547.56 </u>	(ft)	(6")	(tst)	(%)			After	<u> Hrs. </u>	(ft)	(6")	(tst)	(%)				

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)



DESIGNED	-	ECK
CHECKED	-	GEK
DRAWN	-	ECK
CHECKED	-	IS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS IV
STRUCTURE NO. 099-8310

SHEET SB-46 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	822
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		



Page 1 of 2

Date 4/25/22

ROUTE	I-80	DESCRIPTION	I-80 WB over IL 53/US 52 (Chicago Street)	LOGGED BY	DM
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SECTION I-80 over Des Plaines River **LOCATION** , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto
 DRILLING METHOD USA HAMMER SIZE (in.) 24

STRUCT. NO. 099-8310	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
BORING NO. BSD-58	H	S	Qu	T	Groundwater Elev.: Dry ft	H	S	Qu	T
Station 706+66.4994					First Encounter N/A ft				
Offset 12.51 ft					Upon Completion N/A ft				
Ground Surface Elev. 570.85 ft	(ft)	(6")	(tsf)	(%)	After Hrs. N/A ft	(ft)	(6")	(tsf)	(%)

[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 4/25/22

ROUTE	I-80	DESCRIPTION	I-80 WB over IL 53/US 52 (Chicago Street)	LOGGED BY	DM
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SECTION I-80 over Des Plaines River **LOCATION** , SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY	Will	DRILLING RIG	CME-75	HAMMER TYPE	Auto
		DRILLING METHOD	USA	HAMMER SIZE (in)	24

STRUCT. NO. <u>099-8310</u>	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. <u>N/A</u> ft
Station _____					Stream Bed Elev. <u>N/A</u> ft
BORING NO. <u>BSD-50</u>					Groundwater Elev.: _____
Station <u>706+66.4994</u>					First Encounter <u>Dry</u> ft
Offset <u>12.51 ft LT</u>					Upon Completion <u>N/A</u> ft
Ground Surface Elev. <u>570.85</u> ft	(ft)	(6")	(tsf)	(%)	After <u>N/A</u> ft

Medium Dense to Dense Brown, Dry to Moist GRAVEL, with sand (GP) <i>(continued)</i> Limestone fragments from 41 to 56.5 feet			
	13		
	22	3	
-45	16		
	c		
	6	4	
-50	18		
	23		
	17	6	
-55	16		
Auger refusal at 56.5 feet End of Boring	514.35		
-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)



Page 1 of 2

Date 4/19/22

ROUTE	I-80	DESCRIPTION	I-80 EB over IL 53/US 52 (Chicago Street)	LOGGED BY	MH
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SECTION I-80 over Des Plaines River **LOCATION** SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto
 DRILLING METHOD USA HAMMER SIZE (in.) 20

STRUCT. NO. <u>099-0310</u>	D	R	I	M	Surface Water Elev. <u>N/A</u> ft	D	R	I	M
Station _____	E	L	O	O	Stream Bed Elev. <u>N/A</u> ft	E	L	O	O
	P	W	S	I		P	W	S	I
BORING NO. <u>BSB-59</u>	H	Q	T	T	Groundwater Elev.: _____	H	Q	T	T
Station <u>707+18.8792</u>					First Encounter <u>562.7</u> ft				
Offset <u>6.17 ft LT</u>	(ft)	(6")	(tst)	(%)	Upon Completion <u>N/A</u> ft	(ft)	(6")	(tst)	(%)
Ground Surface Elev. <u>571.15</u> ft					After _____ Hrs. <u>N/A</u> ft				

15 inches of Asphalt				Brown and Gray, Moist FILL: SILTY CLAY, with gravel	550.15	5		
3 inches of Aggregate Base Course	569.90	3		(continued)		6		17
	569.65	3	2.5 P	Gray, Moist FILL: SILTY CLAY LOAM, trace sand		6		
Brown and Gray, Moist FILL: SILTY CLAY, trace sand and gravel		5						
		2				4		
		2	3.0 P			8		16
	-5	6			-25	10		
Cobbles at 6 feet					545.15			
		12		Brown and Gray, Moist FILL: SILTY CLAY LOAM, trace sand and gravel		4		
		21				6	2.0 P	16
		18				7		
		3				4		
		5	0.6 B			5	3.5 B	20
	-10	7			-30	11		
		3						
		4	1.0 P					
		7						
		3				32		
Cobbles at 14 feet		26	1.5 P			10	2.0 P	17
	-15	6			-35	10		
	555.15							
Brown and Gray, Moist FILL: SILTY CLAY, with gravel		19						
		11	2.5 P					
		14						
		24		Brown and Gray, Moist FILL: SAND, with gravel	532.65	16		
		13				34		9
		20				50/3"		
	-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)



USER NAME	=	DESIGNED	-	ECK	REVISED	-
		CHECKED	-	GEK	REVISED	-
PLOT SCALE	=	DRAWN	-	ECK	REVISED	-
PLOT DATE	=	CHECKED	-	IS	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS V
STRUCTURE NO. 099-8310

SHEET SB-47 OF SB-53 SHEETS

[illegible]



Page 2 of 2

Date 4/19/22

ROUTE	I-80	DESCRIPTION	I-80 EB over IL 53/US 52 (Chicago Street)	LOGGED BY	MH
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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	Didrich D-63	HSA	HAMMER EFF (%)	98

STRUCT. NO. _____ 099-8310 _____	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. _____ BSD-59 _____					Groundwater Elev.: _____
Station _____ 707+18.8792 _____					First Encounter _____ 562.7 ft ▼
Offset _____ 6.17 ft LT _____					Upon Completion _____ N/A ft
Ground Surface Elev. _____ 571.15 ft _____	(ft)	(6")	(tsf)	(%)	After _____ Hrs. _____ N/A ft

	530.65			
Auger refusal at 40.5 feet End of Boring				
	-45			
	-50			
	-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)



Page 1 of 2

Date 4/18/22

ROUTE	I-80	DESCRIPTION	I-80 EB over IL 53/US 52 (Chicago Street)	LOGGED BY	DD
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SECTION I-80 over Des Plaines River **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. 099-8310	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
BORING NO. BSD-60			Qu		Groundwater Elev.: 518.5 ft				
Station 707+64.3590					First Encounter				
Offset 8.70 ft LT	(ft)	(6")	(tsf)	(%)	Upon Completion N/A ft	(ft)	(6")	(tsf)	(%)
Ground Surface Elev. 572.5 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)



Page 2 of 2

Date 4/18/22

ROUTE	<u>I-80</u>	DESCRIPTION	<u>I-80 EB over IL 53/US 52 (Chicago Street)</u>	LOGGED BY	<u>DD</u>
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SECTION I-80 over Des Plaines River **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.	<u>099-0310</u>	D	R	I	M	Surface Water Elev.	<u>N/A</u>	ft	D	R	I	M
Station	_____	E	L	C	O	Stream Bed Elev.	<u>N/A</u>	ft	P	L	C	I
		T	O	S	I				T	O	S	I
		H	W	T	S				H	W	T	S
BORING NO.	<u>BSB-60</u>					Groundwater Elev.:						
Station	<u>707+64.3590</u>			Qu		First Encounter	<u>518.5</u>	ft				
Offset	<u>8.70' LT</u>					Upon Completion	<u>N/A</u>	ft				
Ground Surface Elev.	<u>572.50</u>	ft				After	<u>N/A</u>	ft				
		(ft)	(6")	(tst)	(%)				(ft)	(6")	(tst)	(%)

[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)



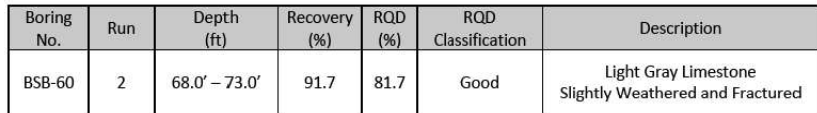
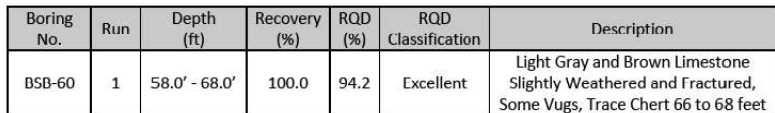
USER NAME =	DESIGNED - ECK	REVISED -
	CHECKED - GEK	REVISED -
PLOT SCALE =	DRAWN - ECK	REVISED -
PLOT DATE =	CHECKED - IS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS VI
STRUCTURE NO. 099-8310

SHEET SB-48 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	824
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		



Illinois Department of Transportation

Division of Highways
CSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 2

Date 4/5/22

ROUTE I-80 DESCRIPTION I-80 EB over IL 53/US 52 (Chicago Street) LOGGED BY EH

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 HSA HAMMER EFF (%) 98

STRUCT. NO. 099-0310
Station

BORING NO. BSB-61
Station 706+5.9104
Offset 87.71 ft RT
Ground Surface Elev. 547.86 ft

3 inches of Asphalt
4.5 inches of CA-6 Type
Aggregate
3 inches of Concrete
Gray, Moist
FILL: SILTY CLAY, trace sand
and gravel

Stiff to Hard
Gray, Moist
SILTY CLAY LOAM, little sand,
trace organics (ML/CL)

Medium Dense to Dense
Light Brown, Dry to Moist
SAND, fine grained, with gravel,
some silt (SP)

DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)
547.61	547.23	546.78	
3			
3	2.3	22	
6	B		
4			
6	4.8	14	
6	B		
4			
6	3.1	15	
7	B		
6			
5	1.5	12	
6	P		
7			
3	2.0	15	
10	P		
5			
9	2.3	18	
13	P		
13			
23		4	
24			
11			
17		4	
15			

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

Medium Dense to Dense
Light Brown, Dry to Moist
SAND, fine grained, with gravel,
some silt (SP) (continued)

Dense to Very Dense
Light Brown, Dry
SAND, fine grained, with gravel,
some silt (SP)
Cobbles at 26 feet

Medium Dense to Very Dense
Brown, Moist
GRAVEL, with sand, with silt (GP)

DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)
13			
16		5	
15			
12			
12		4	
8			
32			
50/6"		4	
12			
16		4	
15			
10			
11		12	
20			
50/6"			
			NR

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 4/5/22

ROUTE	I-80	DESCRIPTION	I-80 EB over IL 53/US 52 (Chicago Street)	LOGGED BY	EH
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SECTION I-80 over Des Plaines River **LOCATION** SEC. 16, TWP. 35 N, RNG. 10 E,

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

STRUCT. NO. <u>099-8310</u>	D	B	U	M	Surface Water Elev. <u>N/A</u> ft
Station _____	E	L	C	O	Stream Bed Elev. <u>N/A</u> ft
	P	L	S	I	
BORING NO. <u>BSD-61</u>	H	W	Q	T	Groundwater Elev.: _____
Station <u>706+5.9104</u>					First Encounter <u>Dry</u> ft
Offset <u>87.71ft RT</u>					Upon Completion <u>N/A</u> ft
Ground Surface Elev. <u>547.86</u> ft	(ft)	(6")	(tsf)	(%)	After Hrs. <u>N/A</u> ft

Auger refusal at 40.5 feet	507.36				
----------------------------	--------	--	--	--	--

Light Gray
LIMESTONE, slightly weathered,
moderately fractured, some chert

Run 1: 40.5' - 48.75'
Recovery: 100.0%
RQD: 79.0% (Good)

	499.11				
Light Group					

Light Gray			
LIMESTONE, slightly weathered,			
highly to moderately fractured,			
some sand 48.75 to 50.25 feet,			
some chert			

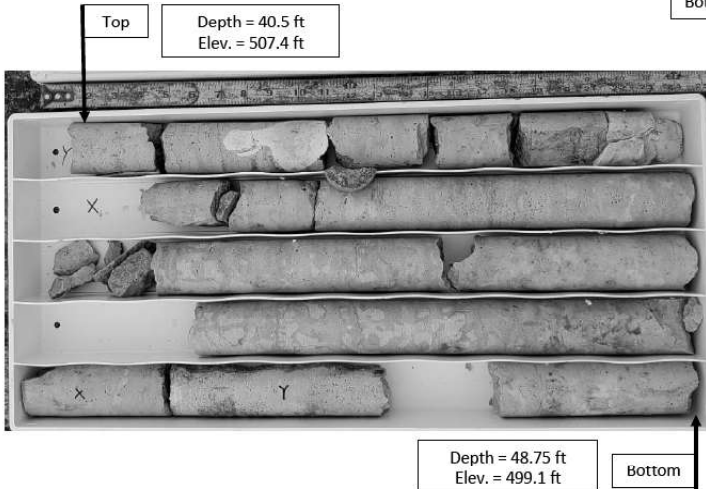
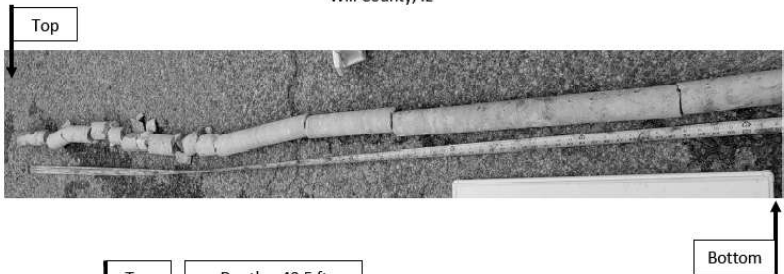
Run 2: 48.75' - 56.75'				
Recovery: 100.0%				
RQD: 71.3% (Fair)				

[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)

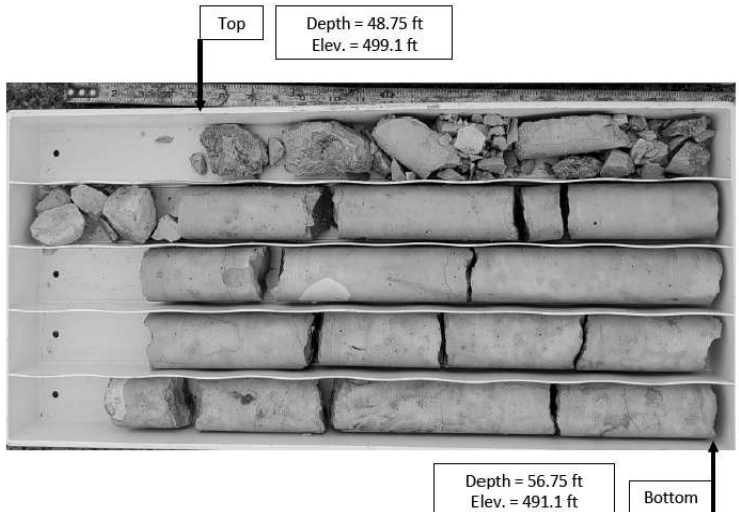
BBS, form 137 (Rev. 8-99)

Chicago Street Bridge
Boring Number: BSB-61
Will County, IL



Boring No.	Run	Depth (ft)	Recovery (%)	RQD (%)	RQD Classification	Description
BSB-61	1	40.5' – 48.75'	100.0	79.0	Good	Light Gray Limestone, Slightly Weathered, Moderately Fractured, Some Chert

Chicago Street Bridge
Boring Number: BSB-61
Will County, IL



Boring No.	Run	Depth (ft)	Recovery (%)	RQD (%)	RQD Classification	Description
BSB-61	2	48.75' – 56.75'	100.0	71.3	Fair	Light Gray Limestone Slightly Weathered, Highly to Moderately Fractured, Some Sand 48.75 to 50.25 feet, Some Chert

MODEL: Default
FILE NAME: 0998310-62F94-050-BOR8.dgn



USER NAME	DESIGNED	REVISD
	CHECKED	REVISD
PLOT SCALE	DRAWN	REVISD
PLOT DATE	CHECKED	REVISD

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS VIII
STRUCTURE NO. 099-8310

SHEET SB-50 OF SB-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	826
		CONTRACT NO. 62F94		
ILLINOIS		FED. AID PROJECT		

10/27/2025 5:00:50 PM



Page 1 of 2

Date 4/18/22

ROUTE	I-80	DESCRIPTION	I-80 EB over IL 53/US 52 (Chicago Street)	LOGGED BY	MH
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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	Diedrich D-53		HAMMER EFF (%)	98
			HSA			

STRUCT. NO.	<u>099-8310</u>	D	B	U	M	Surface Water Elev.	<u>N/A</u>	ft	D	B	U	M
Station	_____	E	L	C	O	Stream Bed Elev.	<u>N/A</u>	ft	E	L	C	O
		P	O	S	I				P	O	S	I
		T	W	Qu	S				T	W	Qu	S
BORING NO.	<u>BSD-62</u>					Groundwater Elev.:						
Station	<u>706+79.3245</u>					First Encounter	<u>Dry</u>	ft				
Offset	<u>78.20 ft RT</u>					Upon Completion	<u>N/A</u>	ft				
Ground Surface Elev.	<u>570.68</u>	(ft)	(6")	(tsf)	(%)	After Hrs.	<u>N/A</u>	n	(ft)	(6")	(tsf)	(%)

[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 4/18/22

ROUTE	I-80	DESCRIPTION	I-80 EB over IL 53/US 52 (Chicago Street)	LOGGED BY	MH
--------------	------	--------------------	---	------------------	----

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	Diedrich D-53		HAMMER EFF (%)	98
			HSA			

STRUCT. NO. 099-8310	DEPTH BLOW U C S M O I S T H W S Qu	(ft) (6") (tsf) (%)	Surface Water Elev. N/A ft
Station			Stream Bed Elev. N/A ft
BORING NO. OSD-62			Groundwater Elev.:
Station 706+79.3245			First Encounter Dry ft
Offset 78.20ft RT			Upon Completion N/A ft
Ground Surface Elev. 570.68 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)



Page 1 of 2

Date 4/19/22

ROUTE	I-80	DESCRIPTION	I-80 EB over IL 53/US 52 (Chicago Street)	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 CME-75	Longitude HSA	HAMMER TYPE HAMMER EFF (%)	Auto 91
--------	------	---------------------------------	--------------------	------------------	-------------------------------	------------

STRUCT. NO.	099-0310	D E P T H	R L O W S	I C S	M O I S T	Surface Water Elev.	N/A	ft	D E P T H	R L O W S	I C S	M O I S T		
Station						Stream Bed Elev.	N/A	ft						
BORING NO.	BSB-63					Groundwater Elev.:								
Station	707+32.8082					First Encounter	Dry	ft						
Offset	77.91 ft RT					Upon Completion	N/A	ft						
Ground Surface Elev.	571.66	ft	(ft)	(6")	(tsf)	(%)	After	Hrs.	N/A	ft	(ft)	(6")	(tsf)	(%)

16 inches of Asphalt				Gray, Black and Brown, Moist FILL: SILTY CLAY, trace sand and gravel (continued)			
	270.33	4			2		
Brown, Moist		3	2.1	15		3	1.7
FILL: SILTY CLAY, trace sand		4	B			4	B
and gravel							
		3					
		3	4.0	16	547.66	3	
		5	B			5	5.2
						7	B
		11					
Gravel seam at 6.5 feet		7	2.3	14		4	
		3	P			6	3.1
						10	B
	563.16						
Light Brown and Gray, Moist		11			543.16		
FILL: SAND, trace gravel		9				4	
		10		14		6	3.1
						6	B
	560.66	3					
Brown, Moist		3	1.9	19			
FILL: SILTY CLAY LOAM, trace		4	B		539.66		
sand and gravel							
		3					
	557.66	3	1.0	18		5	
Gray, Black and Brown, Moist		3	B			8	3.1
FILL: SILTY CLAY, trace sand						12	B
and gravel							
		3					
		4	1.0	18			
		5	B				
		3				4	
		4	2.7	22		8	2.0
		5	B			11	P

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 4/19/22

ROUTE	I-80	DESCRIPTION	I-80 EB over IL 53/US 52 (Chicago Street)	LOGGED BY	DD
-------	------	-------------	---	-----------	----

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

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto

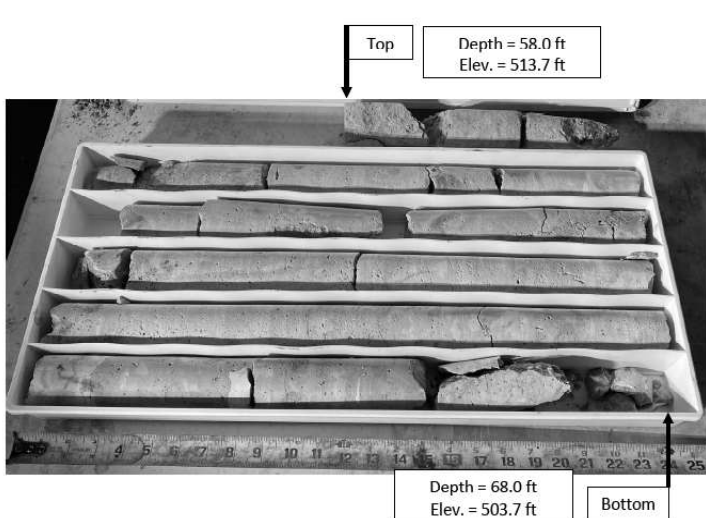
STRUCT. NO. 099-8310	D	B	U	M	Surface Water Elev. N/A ft	D	B	U	M
Station	E	L	C	O	Stream Bed Elev. N/A ft	E	L	C	O
	P	O	S	I		P	O	S	I
	T	W		S		T	W		S
BORING NO. BSD-63	H	S	Qu	T	Groundwater Elev.: Dry ft	H	S	Qu	T
Station 707+32.8082					First Encounter N/A ft				
Offset 77.91 ft	(ft)	(6")	(tsf)	(%)	Upon Completion N/A ft	(ft)	(6")	(tsf)	(%)
Ground Surface Elev. 571.66 ft					After Hrs. N/A ft				

[illegible]

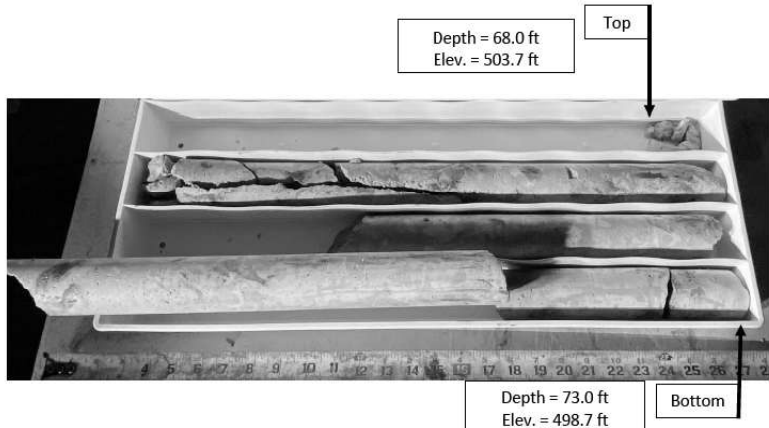
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

Chicago Street Bridge
Boring Number: BSB-63
Will County, IL

Chicago Street Bridge
Boring Number: BSB-63
Will County, IL



Boring No.	Run	Depth (ft)	Recovery (%)	RQD (%)	RQD Classification	Description
BSB-63	1	58.0' – 68.0'	100.0	78.3	Good	Light Gray Limestone, Moderately Fractured, Slightly Weathered, Vertical Clay seam at 63.5 feet, Some Vugs, Trace Chert at 66.5 feet



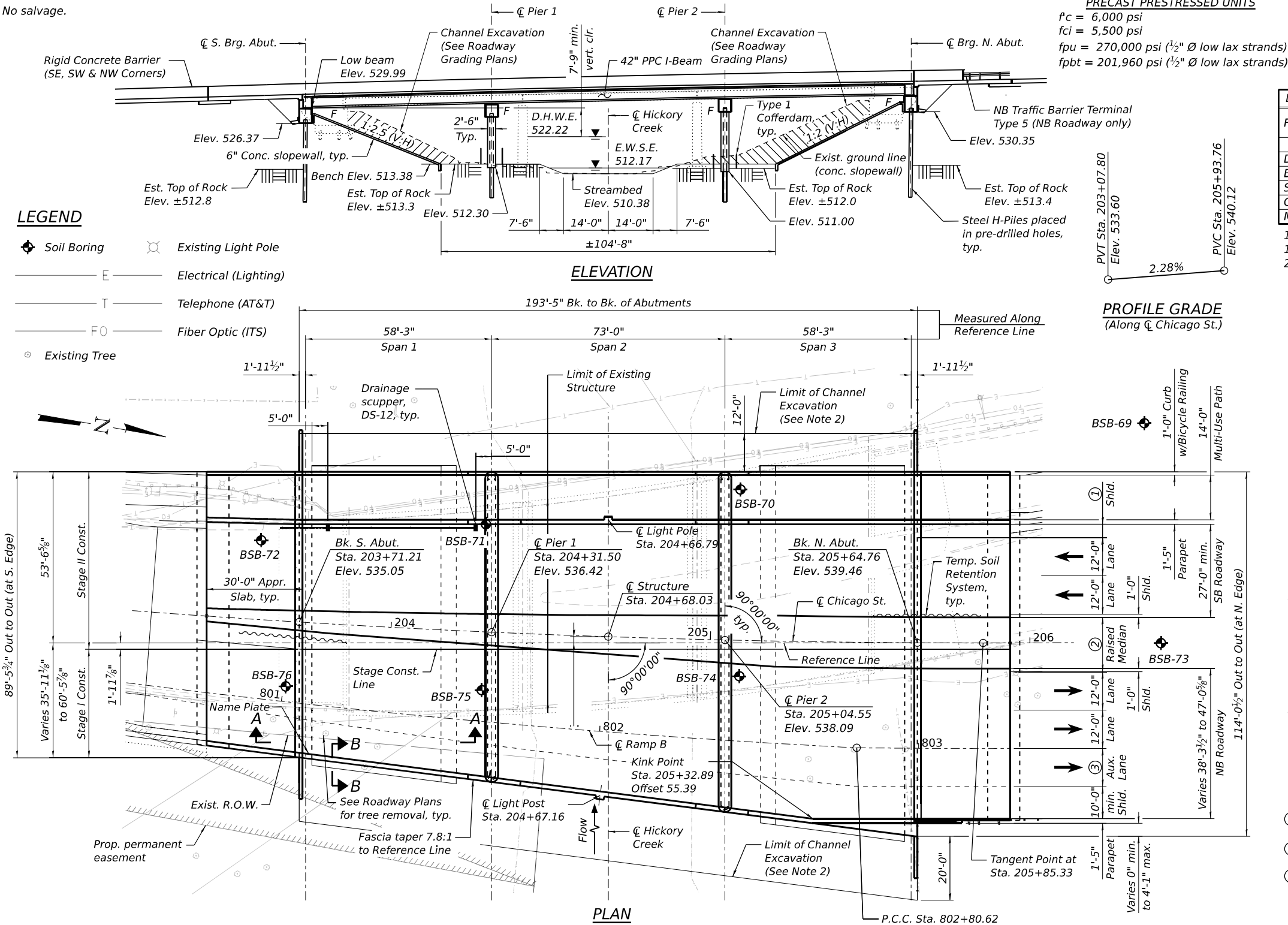
Boring No.	Run	Depth (ft)	Recovery (%)	RQD (%)	RQD Classification	Description
BSB-63	2	68.0' – 73.0'	100.0	79.2	Good	Light Gray Limestone Slightly Weathered, Moderately Fractured, Vertical Fractures and Trace Sand at 68 to 70 feet, Some Vugs

Benchmark: Chiseled 'X' on top of SE Bolt of Fire Hydrant at East ROW of Joliet Street and South Street. Elev. 526.795.

Existing Structure: The Chicago St bridge over Hickory Creek was originally constructed in 1962 and rehabilitated in 1992 and 2018. The structure is a multi-beam steel bridge and consists of three simple spans, composite with the deck. The span lengths are approximately ±54'-8" (Span 1), ±54'-10" (Span 2), and 53'-11" (Span 3). The total length of the bridge is approximately 167'-1" from back to back of abutments measured at the PGL, parallel to the tangent line at the intersection of PGL and centerline of Hickory Creek. The out-to-out deck width varies and ranges from approximately ±62'-6" at the south end of the bridge to ±71'-4" at the north end of the bridge, each measured along centerline of abutment. The bridge substructure units are skewed with respect to the centerline of Hickory Creek at 5°30'00" angle. The substructure consists of concrete stub abutments with wingwalls and two solid stem pier walls. Each abutment is supported on steel H-pile footings and the pier walls are supported on rectangular spread footing foundations.

Traffic Control: Traffic will be maintained utilizing staged construction.

No salvage.



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

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f'_c = 4,000$ psi (Superstructure Concrete)
 $f_y = 60,000$ psi (Reinforcement)
PRECAST PRESTRESSED UNITS
 $f'_c = 6,000$ psi
 $f_{ci} = 5,500$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " $\emptyset$ low lax strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " $\emptyset$ low lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.095
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.167
Soil Site Class = D

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				
	S. Abut.	Pier 1	Pier 2	N. Abut.	Item 113
Q100	526.41	512.30	511.00	530.35	8
Q200	526.41	512.30	511.00	530.35	
Design	526.41	512.30	511.00	530.35	
Check	526.41	512.30	511.00	530.35	

WATERWAY INFORMATION

Drainage Area = 109.1 Sq. Mi. Low Grade Elev. 534.25 @ Sta. 203+74.68									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	10660	867	1121	518.95	1.11	0.14	520.06	519.09
Base	100	13750	1072	1385	521.91	0.98	0.31	522.89	522.22
Scour Check	200	17120	1290	1653	523.77	1.03	0.41	524.80	524.18
Overtopping					525.55	1.04	0.55	526.59	526.10
Max. Calc.	500	23203	1703	2163	528.71	0.77	0.81	529.48	529.52

10-Yr. velocity through existing structure = 9.5 fps
10-Yr. velocity through proposed structure = 8.2 fps
2-Yr. Flow Rate = 3710 C.F.S.

PROFILE GRADE
(Along $\bar{C}$ Chicago St.)



APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

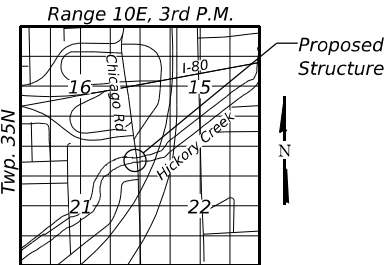
Patrick J. Laux

10/31/2025

Patrick J. Laux, P.E., S.E.
State of Illinois Lic. No. 081-007655
License Expires 11-30-2026
This stamp applies to sheets SC-1 thru SC-60

NOTES:

- Reference Line is a Local Tangent at $\bar{C}$ Chicago St. Sta. 205+85.33.
- Scope of work for channel excavation includes the extension of the stream profile and slopewall grade line 20-ft upstream and 12-ft downstream of the bridge and then extending these contours to where they meet the existing grades. See Roadway Grading Plans.
- See sheet SC-2 for General Notes, Index of Sheets & Total Bill of Material.
- See sheet SC-54 for Section A-A & B-B and slopewall details.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
CHICAGO STREET (IL-53, US 52)
OVER HICKORY CREEK

F.A.P. RTE. 0846 - SEC. 2017-057F

WILL COUNTY

STA. 204+68.03

STRUCTURE NO. 099-8306

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NUMBER 099-8306

SHEET SC-1 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	830
CONTRACT NO. 62F94				

ILLINOIS FED. AID PROJECT



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

USER NAME = lauxj	DESIGNED - FIM/MI	REVISED -
	CHECKED - PJL	REVISED -
PLOT SCALE = 36:0" = 1" / in.	DRAWN - NBR	REVISED -
PLOT DATE = 12/2/2025	CHECKED - PJL	REVISED -

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Slipforming of the parapets is not allowed.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
5. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
6. Bridge plans Stage I and Stage II correspond to MOT Stage 3 and MOT Stage 5, respectively.

INDEX OF SHEETS

SC-1	General Plan and Elevation
SC-2	General Notes, Index of Sheets & Total Bill of Material
SC-3	General Data
SC-4	Footing Layout
SC-5 - SC-6	Stage Construction Details
SC-7	Temporary Soil Retention System
SC-8 - SC-10	Existing Structure Removal Details
SC-11	Temporary Concrete Barrier
SC-12	Top of Slab Elevations Location Plan
SC-13 - SC-17	Top of Slab Elevations
SC-18	Top of South Approach Slab Elevations
SC-19	Top of North Approach Slab Elevations
SC-20	Deck Plan
SC-21	Deck Cross Section
SC-22	Parapet Details
SC-23 - SC-24	Superstructure Details
SC-25	Drainage Scuppers, DS-12
SC-26	Drainage System
SC-27	Diaphragm - South Abutment
SC-28	Diaphragm - Pier 1
SC-29	Diaphragm - Pier 2
SC-30	Diaphragm - North Abutment
SC-31 - SC-32	South Bridge Approach Slab Details
SC-33 - SC-34	North Bridge Approach Slab Details
SC-35 - SC-36	Approach Slab Details
SC-37 - SC-38	Bicycle Railing and Parapet Railing
SC-39	Framing Plan
SC-40	42" PPC I-Beam Spans 1 & 3
SC-41	42" PPC I-Beam Span 2
SC-42 - SC-43	42" PPC I-Beam Details
SC-44 - SC-45	South Abutment
SC-46 - SC-47	North Abutment
SC-48	Abutment Details
SC-49	Pier 1 SB
SC-50	Pier 1 NB
SC-51	Pier 2 SB
SC-52	Pier 2 NB
SC-53	Pier Details
SC-54	Slope Wall
SC-55	HP Pile Details
SC-56	Bars Splicer Assembly and Mechanical Splicer Details
SC-57	Blank Sheet
SC-58 - SC-60	Boring Logs

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 5	Each	1	-	1
Slope Wall Removal	Sq Yd	-	894	894
Structure Excavation	Cu Yd	-	482	482
Cofferdam Excavation	Cu Yd	-	142	142
Rock Excavation for Structures	Cu Yd	-	19	19
Cofferdam (Type 1) (Location 1)	Each	-	1	1
Cofferdam (Type 1) (Location 2)	Each	-	1	1
Concrete Structures	Cu Yd	60.2	593.2	653.4
Concrete Superstructure	Cu Yd	839.2	-	839.2
Bridge Deck Grooving	Sq Yd	2,198	-	2,198
Protective Coat	Sq Yd	3,148	-	3,148
Concrete Superstructure (Approach Slab)	Cu Yd	261.3	-	261.3
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 In.	Foot	2,648	-	2,648
Reinforcement Bars, Epoxy Coated	Pound	297,980	56,560	354,540
Bar Splicers	Each	1,020	150	1,170
Bicycle Railing	Foot	252	-	252
Parapet Railing	Foot	252	-	252
Slope Wall 6 Inch	Sq Yd	-	1,064	1,064
Furnishing Steel Piles HP12X63	Foot	-	630	630
Furnishing Steel Piles HP14X89	Foot	-	714	714
Drilling and Setting Piles (In Soil)	Cu Ft	-	1,343	1,343
Drilling and Setting Piles (In Rock)	Cu Ft	-	968	968
Name Plates	Each	1	-	1
Temporary Soil Retention System	Sq Ft	-	538	538
Drainage System for Structures	L Sum	1	-	1
Granular Backfill for Structures	Cu Yd	-	349	349
Geocomposite Wall Drain	Sq Yd	-	341	341
Pipe Underdrains For Structures 4"	Foot	-	256	256
Bar Terminators	Each	205	1,014	1,219
Drainage Scuppers, DS-12	Each	2	-	2

STA. 204+68.03
BUILT 20XX BY
STATE OF ILLINOIS
FAP RTE. 0846 - SEC. 2017-057F
LOADING HL-93
STR. NO. 099-8306

NAME PLATE
See Std. 515001

MODEL: Default
FILE NAME: 0998306-62F94-5002-CH01.dgn



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

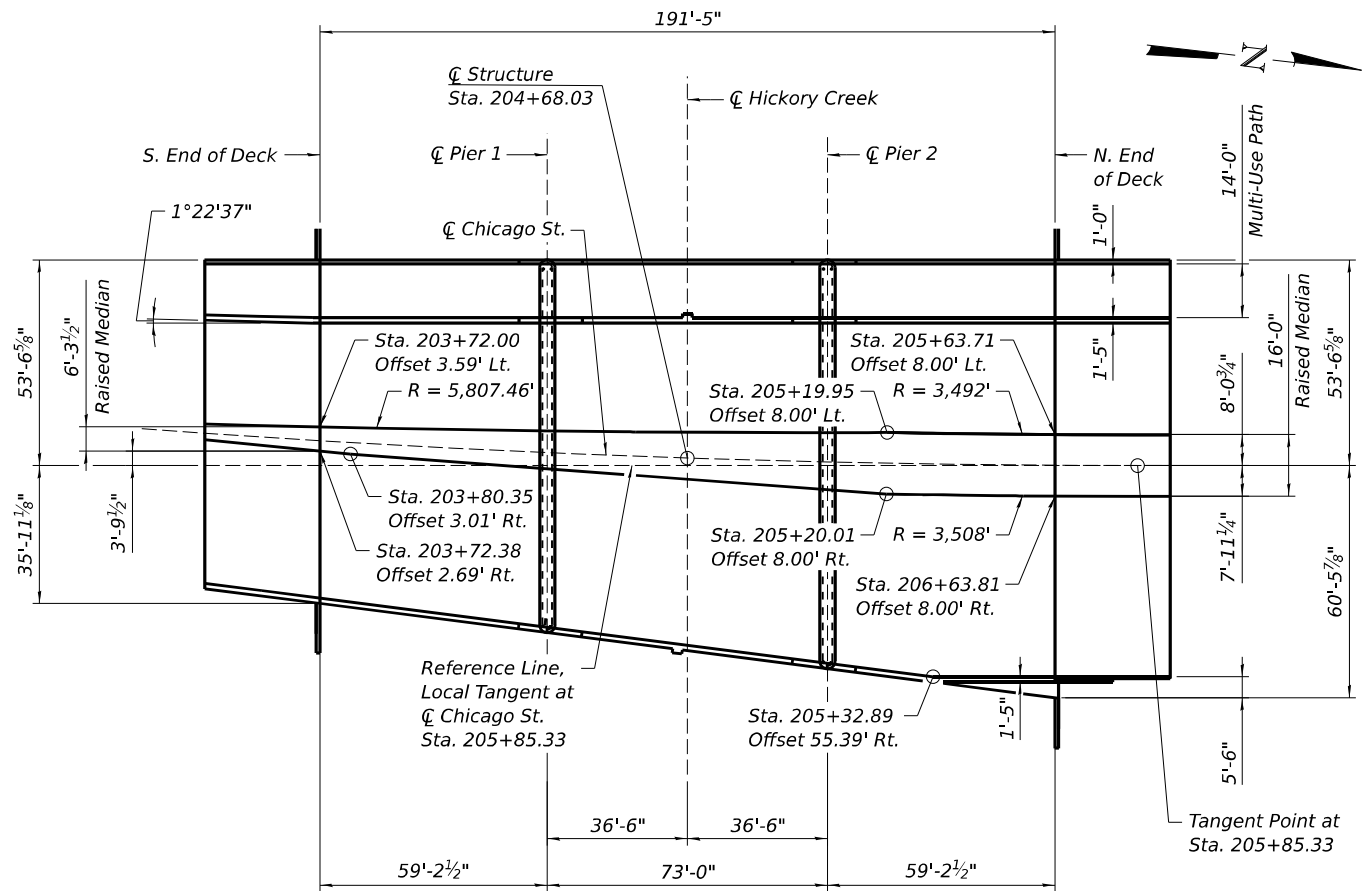
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

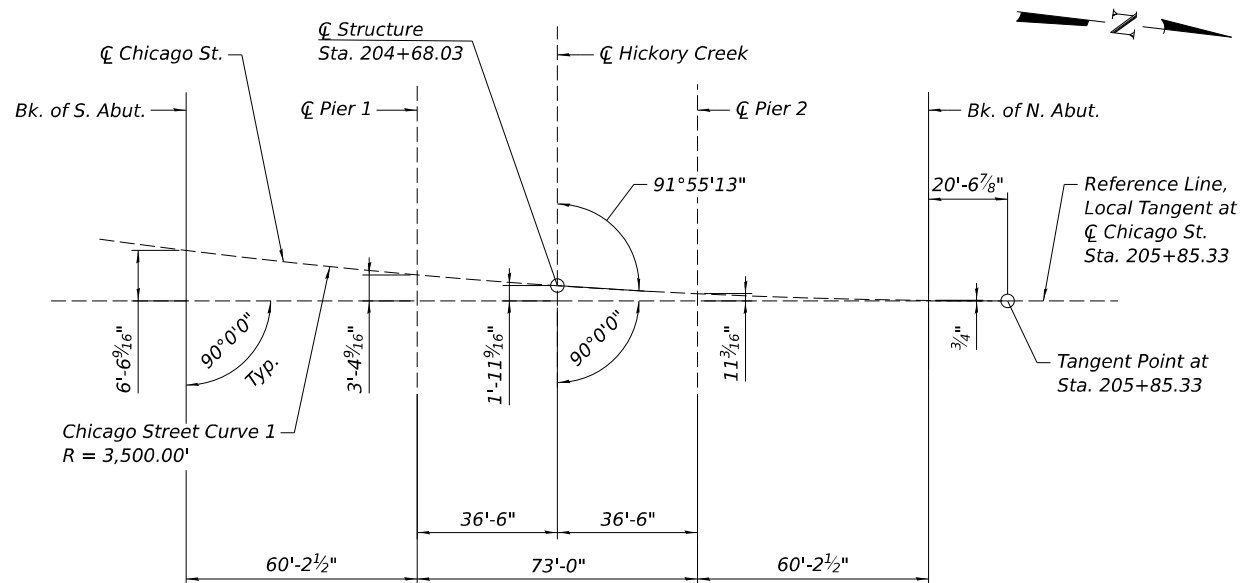
GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
STRUCTURE NUMBER 099-8306

SHEET SC-2 OF SC-60 SHEETS

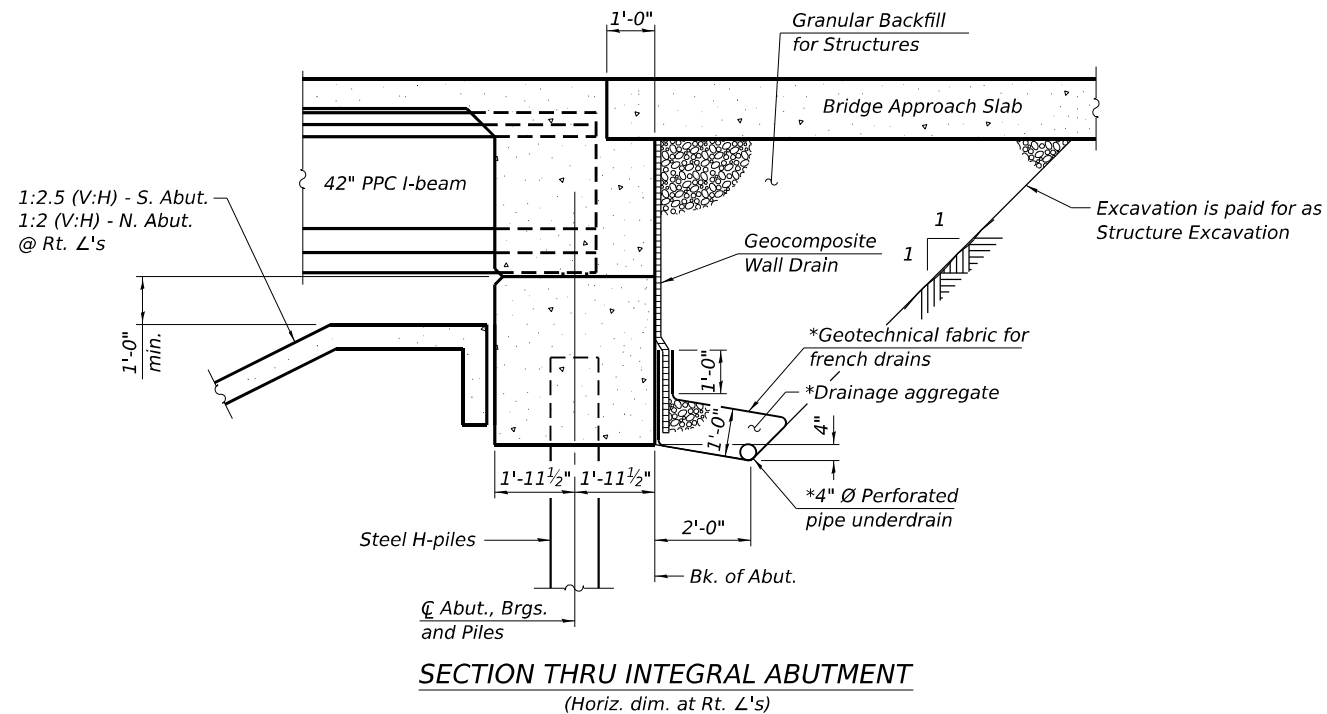
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	831
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	



DECK & MEDIAN LAYOUT



OFFSET SKETCH



* Included in the cost of Pipe Underdrains for Structures.

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes.
- The South Abutment is to outlet to the west.
- The North Abutment is to outlet to the east.
The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

CURVE DATA
CHICAGO STREET CURVE 1
P.I. Sta. = 204+44.22
 $\Delta = 05^\circ 45' 56''$ (LT)
 $D = 01^\circ 38' 13''$
 $R = 3,500.00'$
 $T = 176.25'$
 $L = 352.20'$
 $E = 4.43'$
 $e = N.C.$
 $T.R. = N/A$
 $S.E. Run = N/A$
 $P.C. Sta. = 202+67.98$
 $P.T. Sta. = 206+20.17$

CURVE DATA
RAMP B CURVE 1
P.I. Sta. = 801+40.41
 $\Delta = 05^\circ 21' 47''$ (LT)
 $D = 01^\circ 54' 40''$
 $R = 2,988.00'$
 $T = 140.41'$
 $L = 280.62'$
 $E = 3.29'$
 $e = 2.0\%$
 $T.R. = N/A$
 $S.E. Run = N/A$
 $P.C. Sta. = 800+00.00$
 $P.T. Sta. = 802+80.62$

CURVE DATA
RAMP B CURVE 2
P.I. Sta. = 803+17.98
 $\Delta = 01^\circ 12' 42''$ (LT)
 $D = 01^\circ 37' 18''$
 $R = 3,533.00'$
 $T = 37.36'$
 $L = 74.72'$
 $E = 0.20'$
 $e = 2.0\%$
 $T.R. = N/A$
 $S.E. Run = N/A$
 $P.C. Sta. = 802+80.62$
 $P.T. Sta. = 803+55.34$

For information only, all roadway elements are defined by the Chicago St. alignment on the bridge

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NUMBER 099-8306

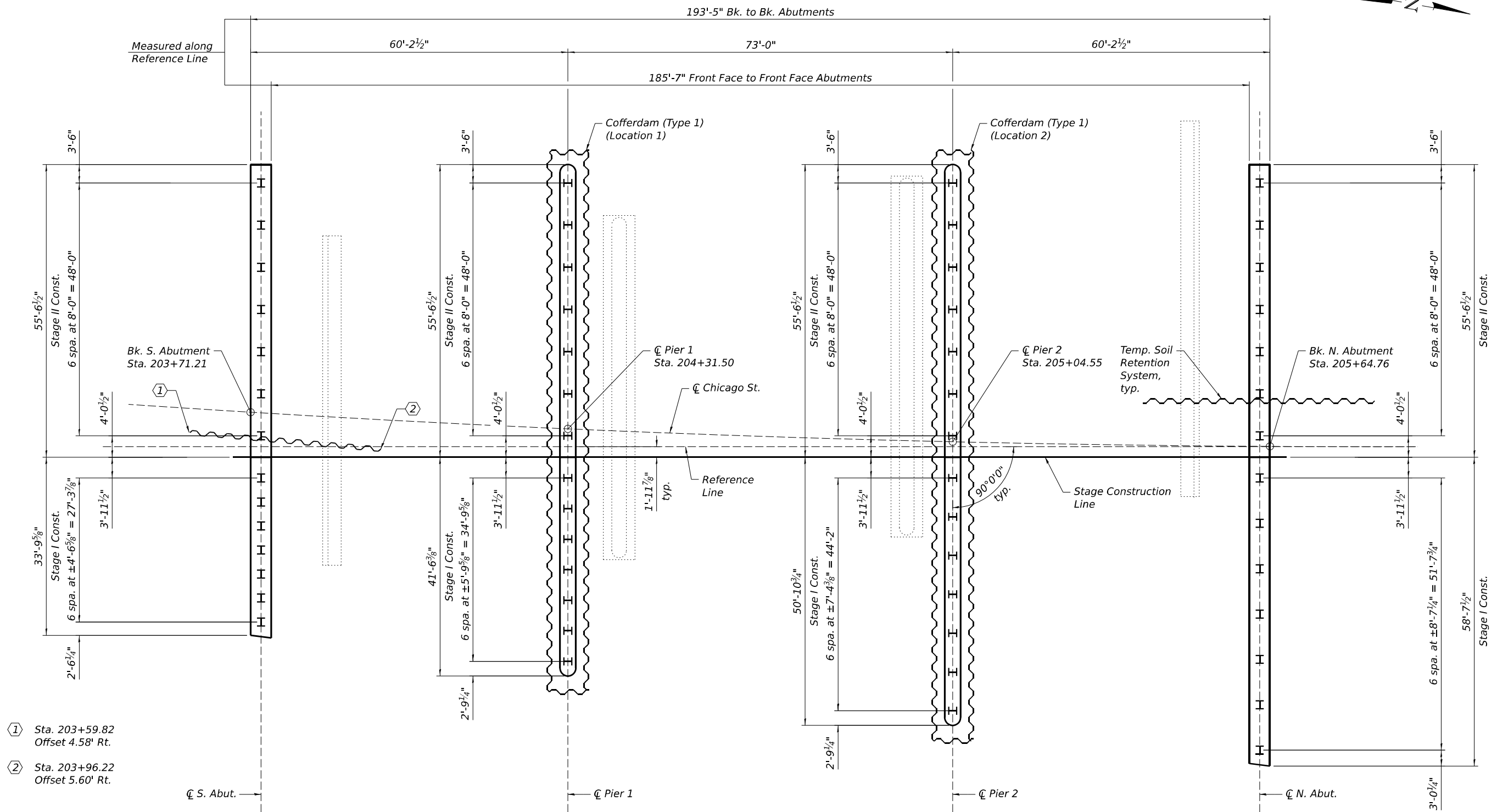
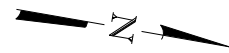
SHEET SC-3 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	832
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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DESIGNED	- FIM/MI
CHECKED	- PJL
PLOT SCALE	= 0:1.9999 " = 1' / in.
PLOT DATE	= 12/2/2025

DESIGNED	- FIM/MI
CHECKED	- PJL
DRAWN	- NBR
CHECKED	- PJL

REVISED	-
REVISED	-
REVISED	-
REVISED	-



PLAN

NOTES:

- Reference Line is a Local Tangent at $\angle$ Chicago St. Sta. 205+85.33.
- See sheet SC-7 for Temporary Soil Retention System.

MODEL: Default
FILE NAME: 0998306-62F94-S004-FTG.dgn



WSP USA INC.
30 N. LASALLE STREET
SUITE 400
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

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PLOT SCALE	= 19:11.9904 '"/in.
PLOT DATE	= 12/2/2025

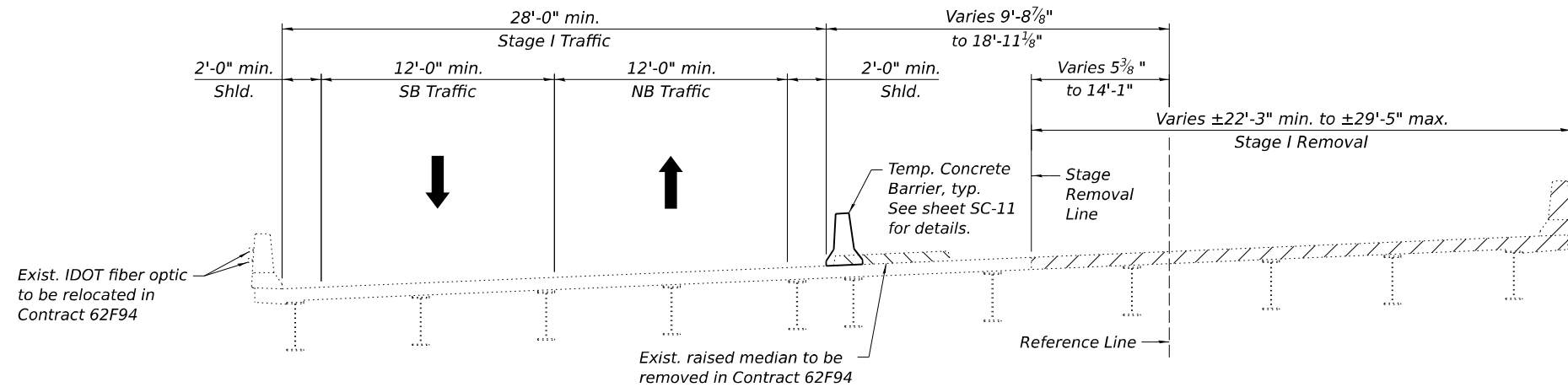
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DRAWN	- PJL
CHECKED	- LAS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

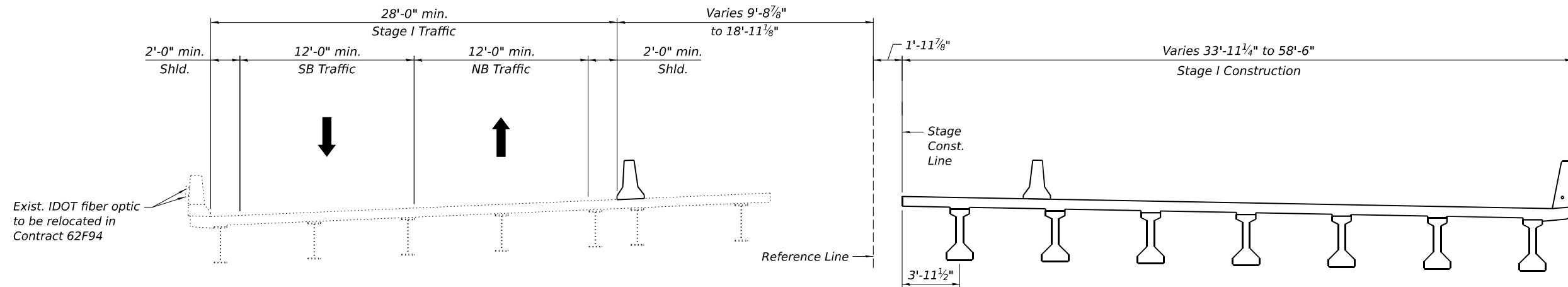
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOOTING LAYOUT
STRUCTURE NUMBER 099-8306
SHEET SC-4 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	833
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

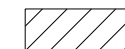


CROSS SECTION - STAGE I REMOVAL
(Looking North)



CROSS SECTION - STAGE I CONSTRUCTION
(Looking North)

LEGEND:

 Removal of Existing Structures No. 5

NOTES:

1. All horizontal dimension are measured perpendicular to the Reference Line (Local Tangent Line at ∇ Chicago St. Sta. 205+85.33), unless noted otherwise.
2. Varying deck dimensions are measured at the north and south ends of deck.
3. For quantity of Temporary Concrete Barrier, see Roadway Plans.

MODEL: Default
FILE NAME: 0998306-62F94-5005-STG01.dgn

wsp

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

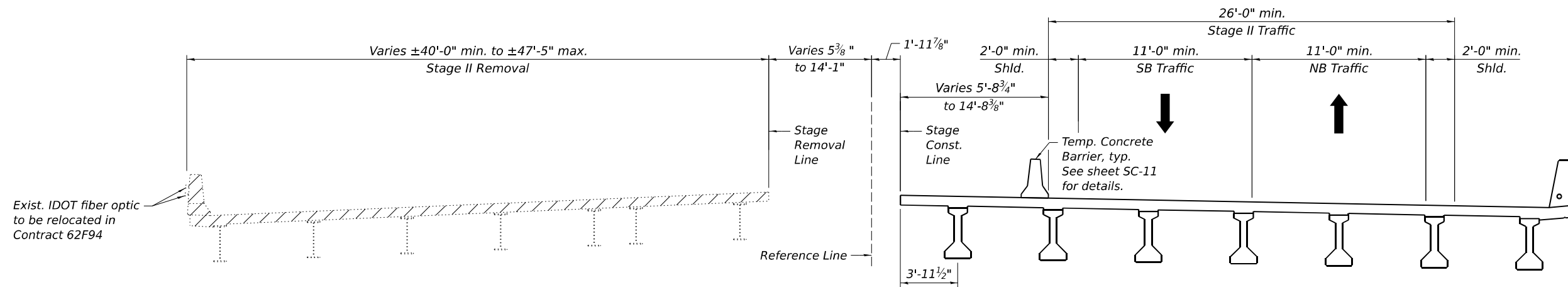
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PLOT DATE = 12/2/2025	CHECKED - PJL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

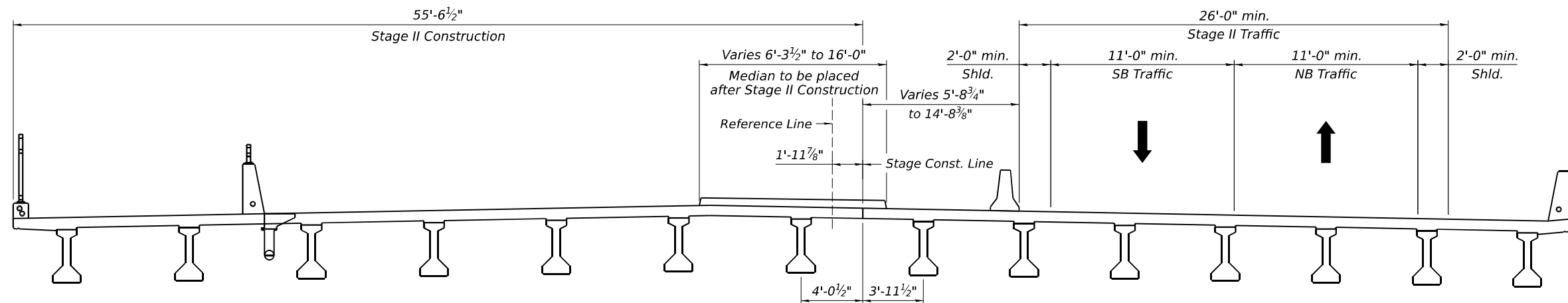
**STAGE CONSTRUCTION DETAILS 1
STRUCTURE NUMBER 099-8306**

SHEET SC-5 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	834
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

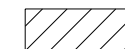


CROSS SECTION - STAGE II REMOVAL
(Looking North)



CROSS SECTION - STAGE II CONSTRUCTION
(Looking North)

LEGEND:



Removal of Existing Structures No. 5

NOTES:

1. All horizontal dimension are measured perpendicular to the Reference Line (Local Tangent Line at ∇ Chicago St. Sta. 205+85.33), unless noted otherwise.
2. Varying deck dimensions are measured at the north and south ends of deck.

MODEL: Default
FILE NAME: 0998306-62F94-5006-STG02.dgn



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

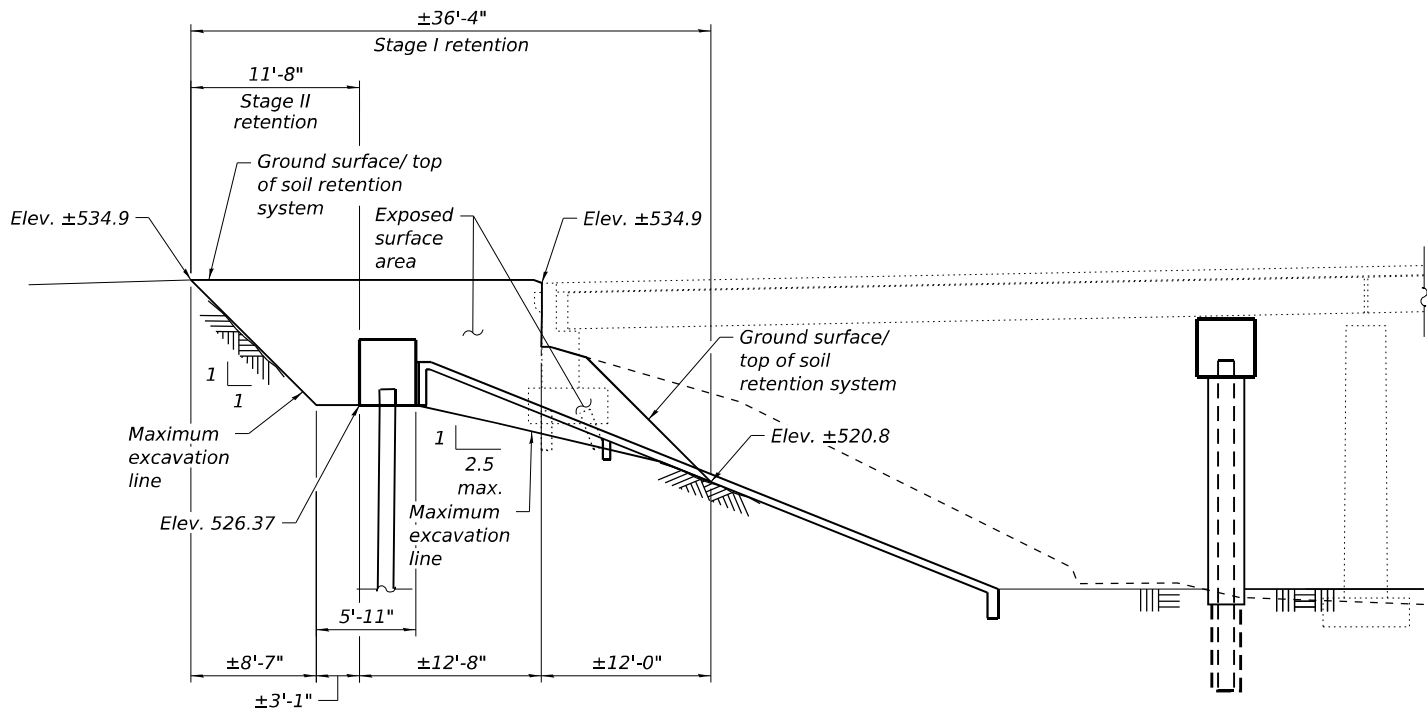
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PLOT DATE = 12/2/2025	CHECKED - PJL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

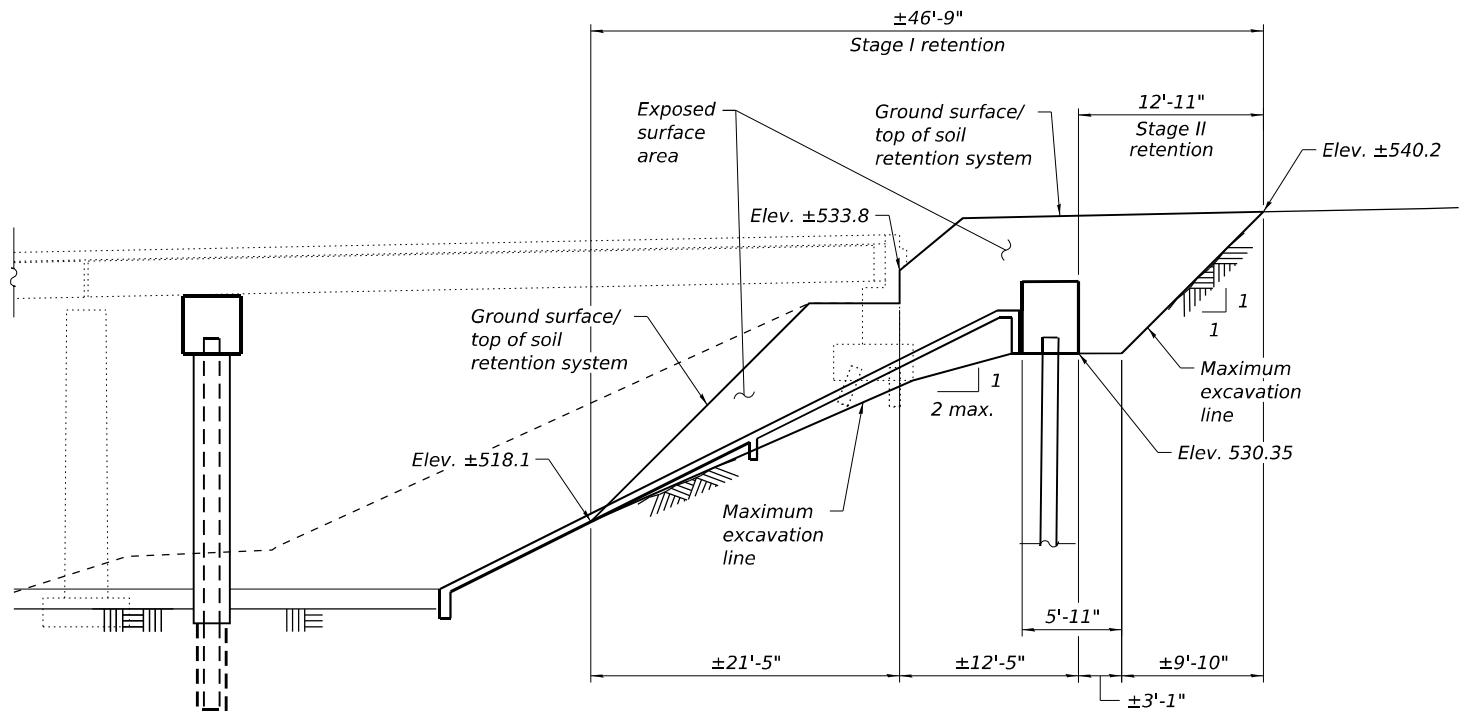
**STAGE CONSTRUCTION DETAILS 2
STRUCTURE NUMBER 099-8306**

SHEET SC-6 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	835
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



TEMPORARY SOIL RETENTION SYSTEM
(Shown projected to the Reference Line, Looking west,
see sheet SC-4 for Stations and Offsets)



TEMPORARY SOIL RETENTION SYSTEM
(Measured along Reference Line,
Offset 8.70' Lt., Looking west)

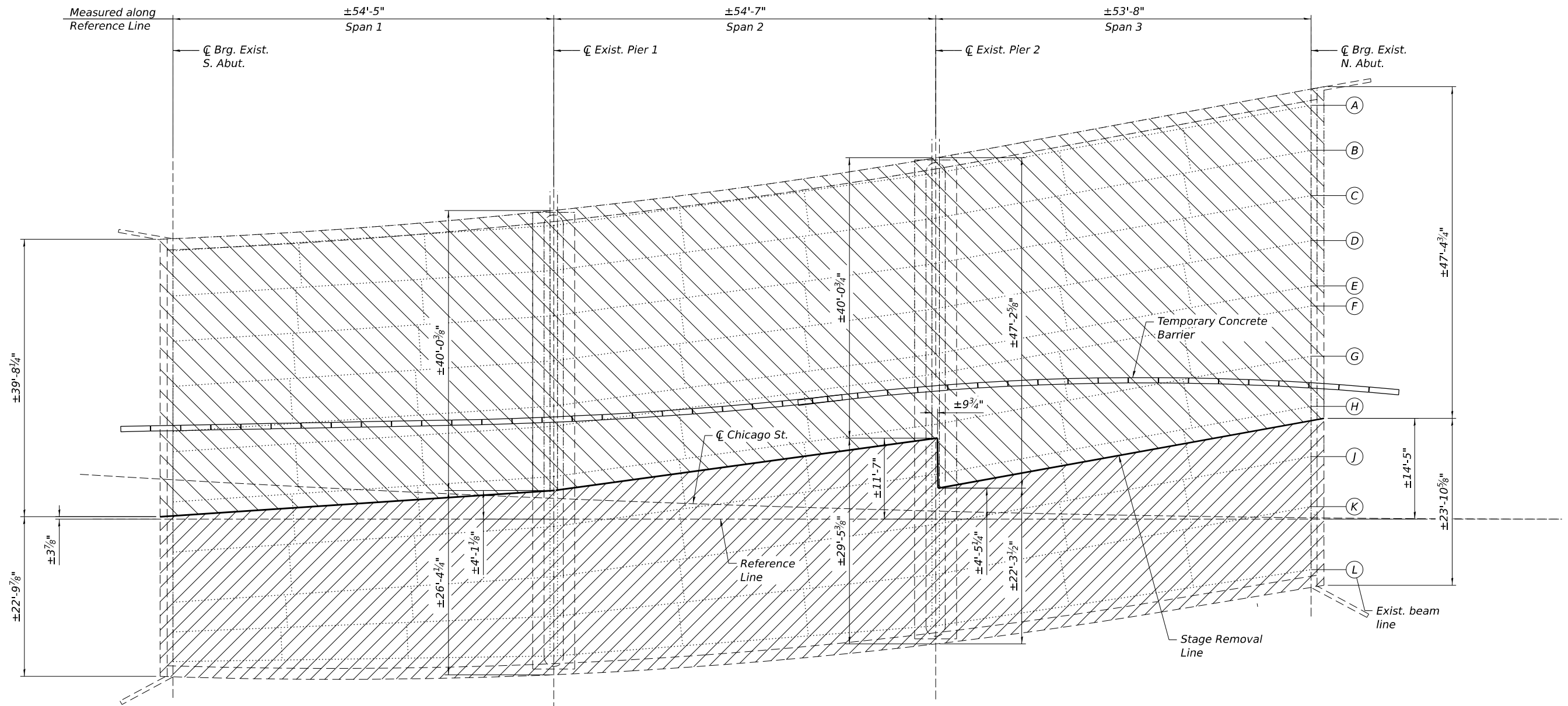
NOTE:

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq. Ft.	538

MODEL: Default
FILE NAME: 0998306-62F94-5007-SRS.dgn



PLAN

LEGEND:

- Stage I - Removal of Existing Structures No. 5
- Stage II - Removal of Existing Structures No. 5

NOTES:

- All horizontal dimension are measured perpendicular to the Reference Line (Local Tangent Line at Centerline of Chicago St. Sta. 205+85.33), unless noted otherwise.
- Removal widths are measured from the Stage Removal Line to the edge of deck.
- Removal lines are different for the superstructure and the substructure, see sheets SC-9 & SC-10 for substructure removal.
- The removal of all cables, conduits and embedded junction boxes will not be paid for separately but shall be included in the cost of the Removal of Existing Structures No. 5.
- For quantity of Temporary Concrete Barrier, see Roadway Plans.

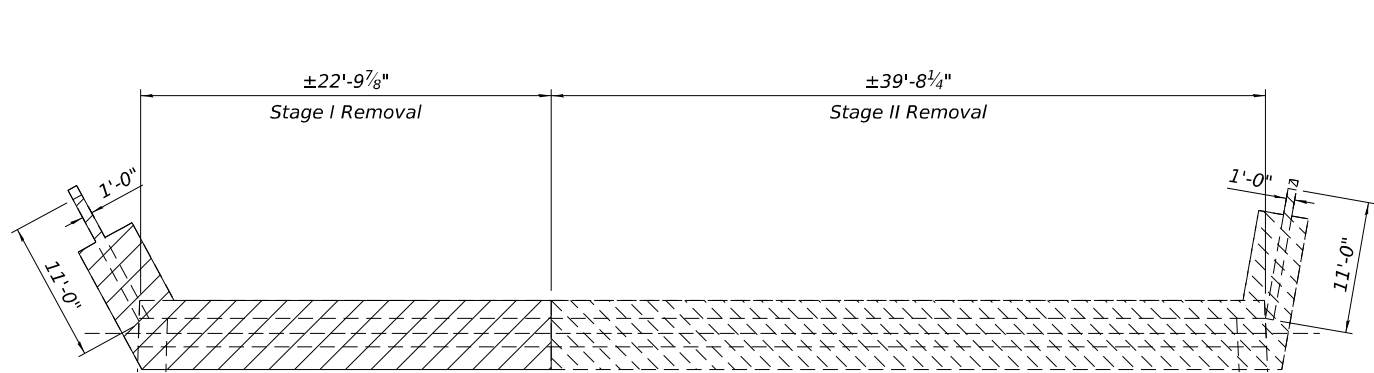
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL DETAILS 1
STRUCTURE NUMBER 099-8306

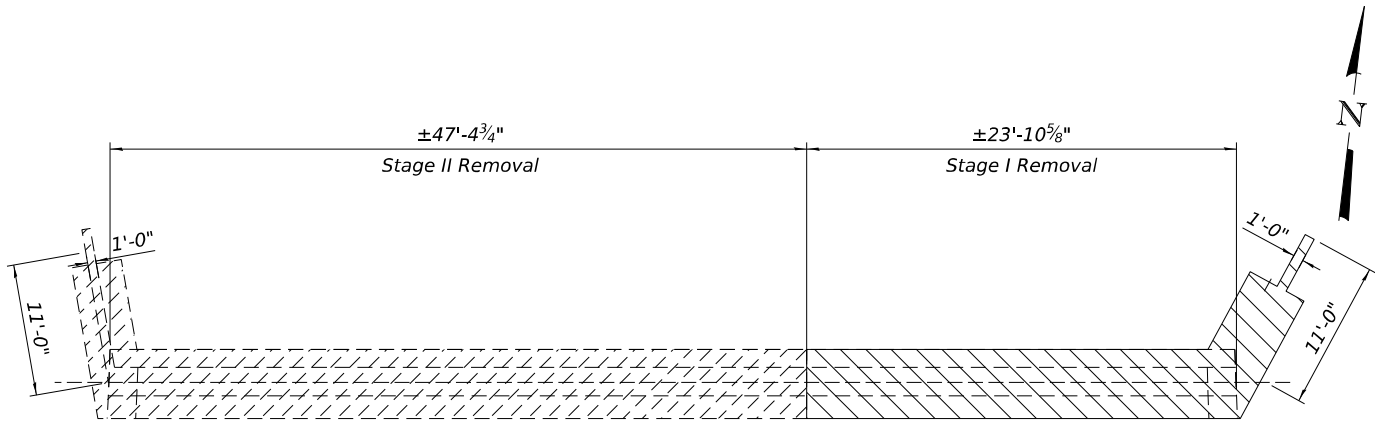
SHEET SC-8 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	837
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

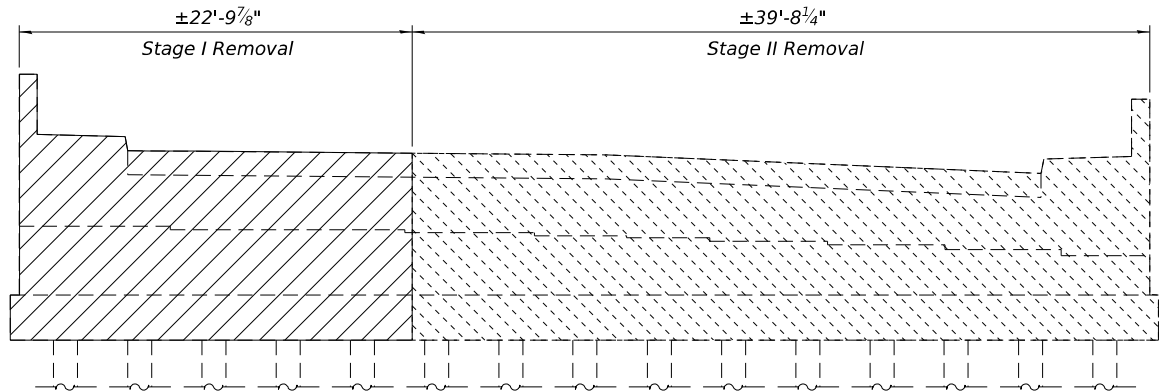
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	CHECKED - LAS	REVISED -
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PLOT DATE = 12/2/2025	CHECKED - PJL	REVISED -



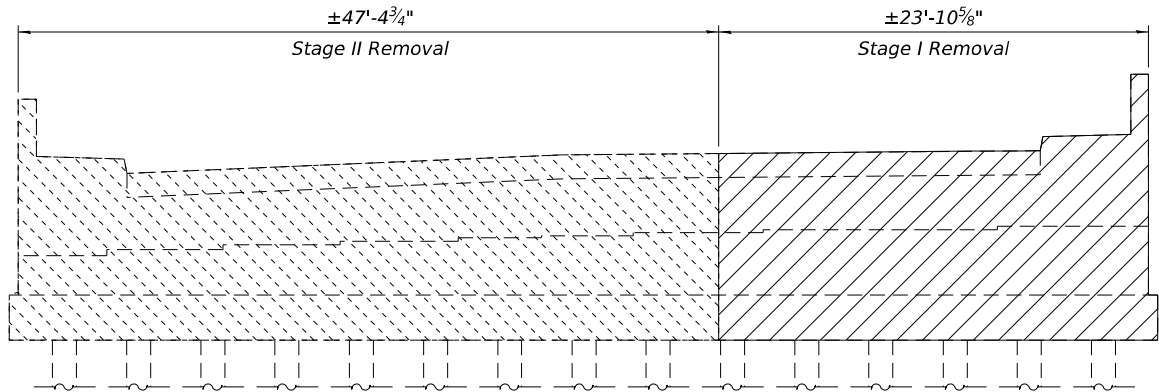
PLAN - SOUTH ABUTMENT



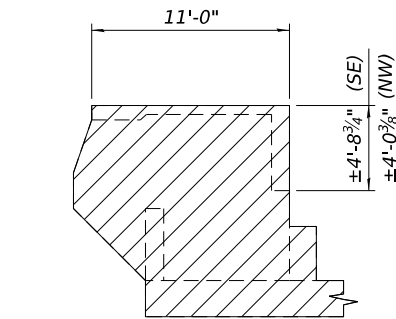
PLAN - NORTH ABUTMENT



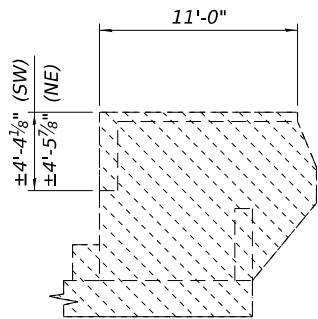
ELEVATION - SOUTH ABUTMENT
(Looking South)



ELEVATION - NORTH ABUTMENT
(Looking North)



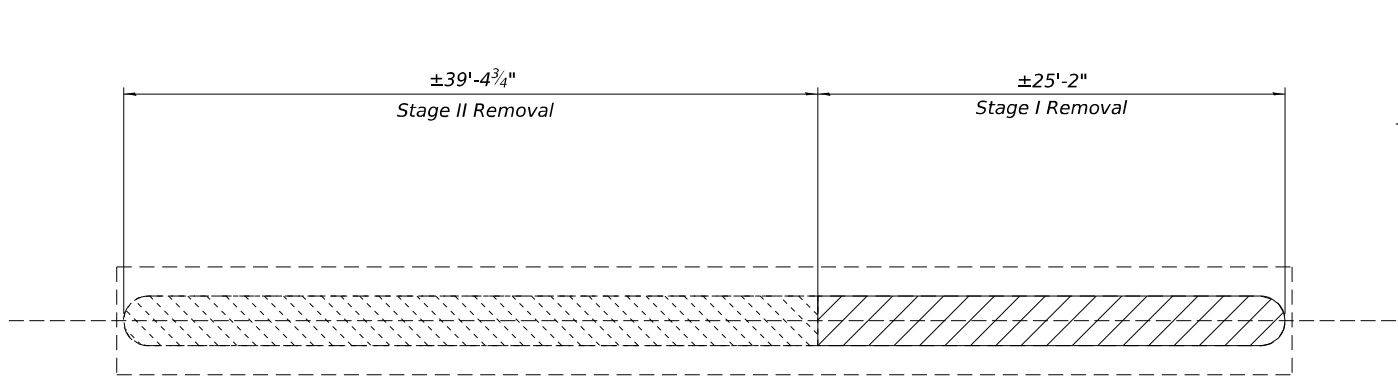
ELEVATION - SE WINGWALL
(NW Wingwall similar)



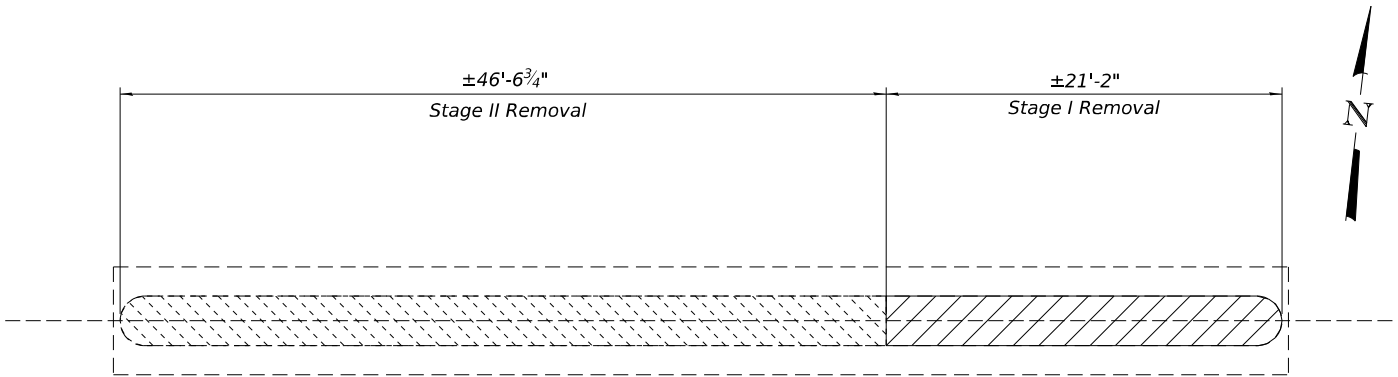
ELEVATION - SW WINGWALL
(NE Wingwall similar)

- LEGEND:**
- Stage I - Removal of Existing Structures No. 5
 - Stage II - Removal of Existing Structures No. 5

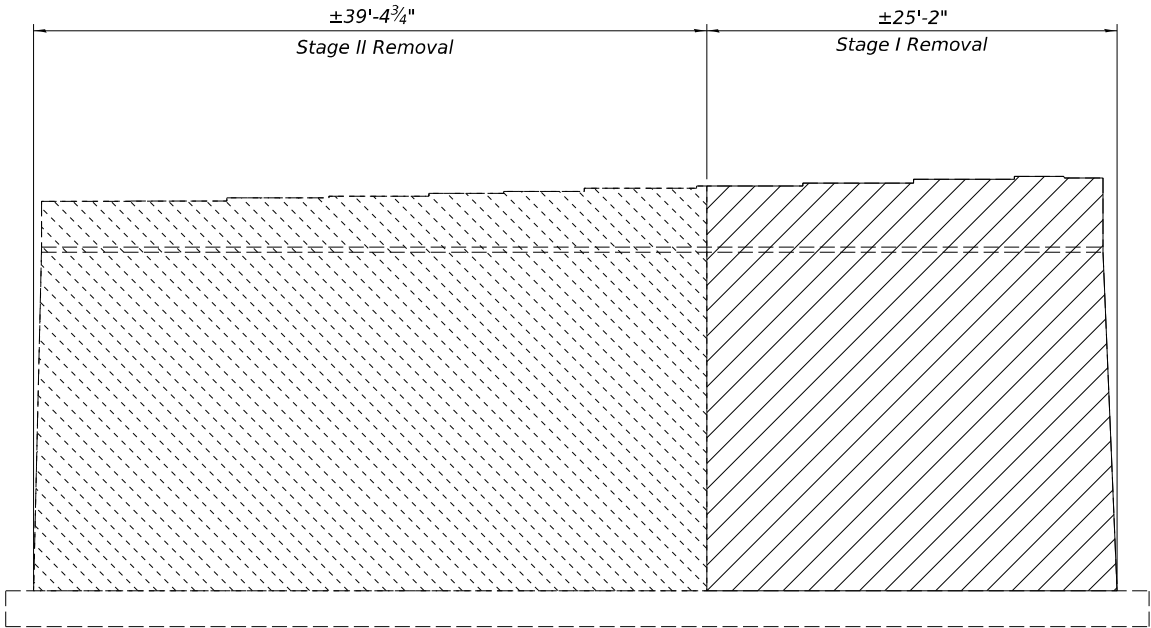
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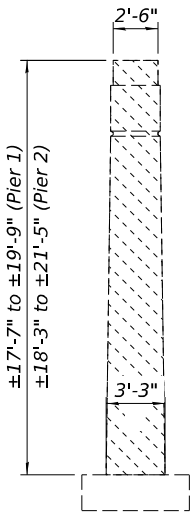
PLAN - PIER 1



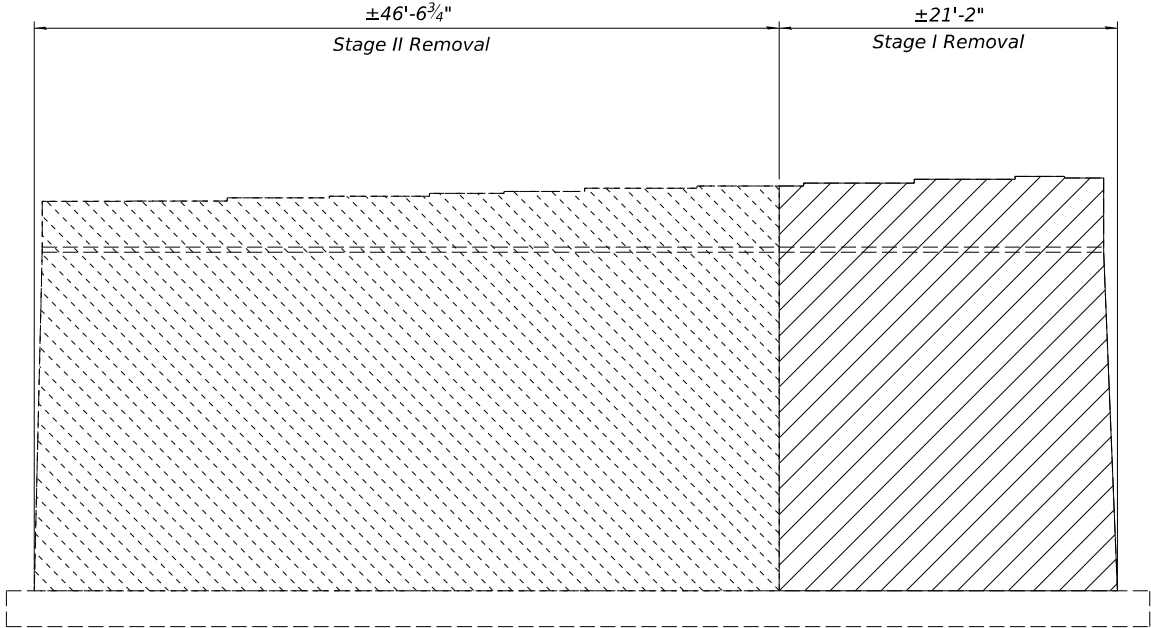
PLAN - PIER 2



ELEVATION - PIER 1
(Looking North)

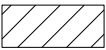


TYPICAL PIER SECTION



ELEVATION - PIER 2
(Looking North)

LEGEND:

-  Stage I - Removal of Existing Structures No. 5
-  Stage II - Removal of Existing Structures No. 5

MODEL: Default
FILE NAME: 0998306-62F94-S010-DEM03.dgn



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

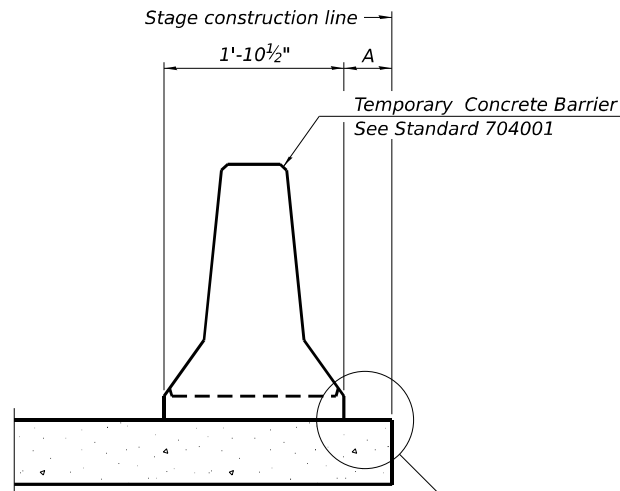
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PLOT DATE = 12/2/2025	CHECKED - PJL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL DETAILS 3
STRUCTURE NUMBER 099-8306

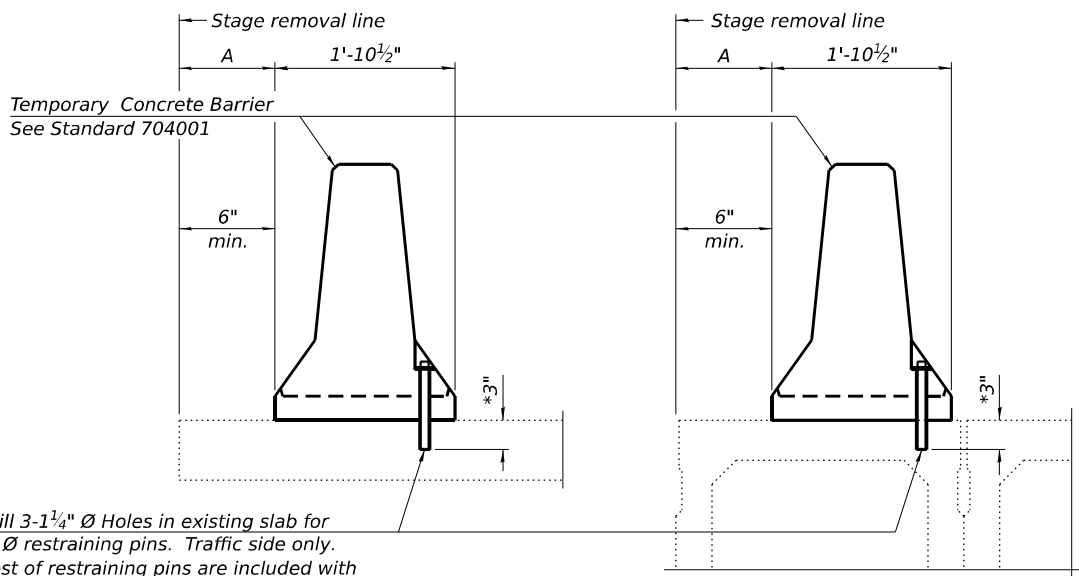
SHEET SC-10 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	839
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	



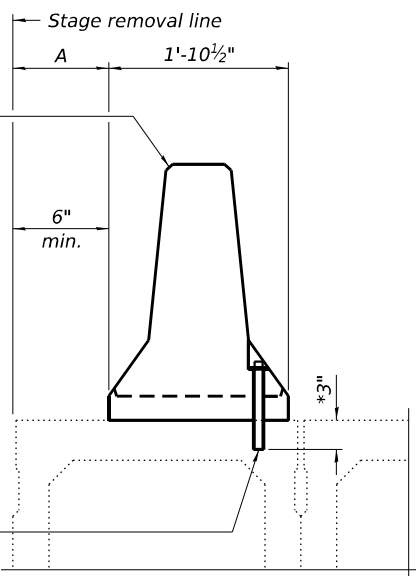
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



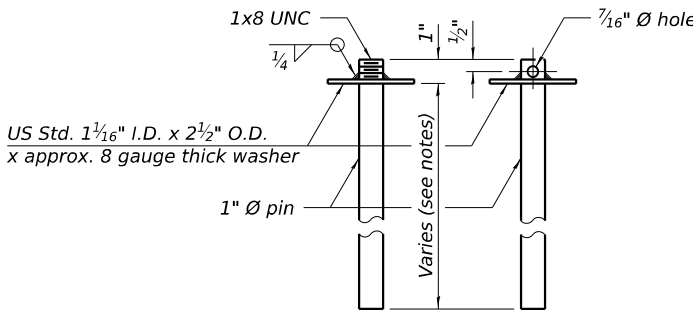
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins is included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



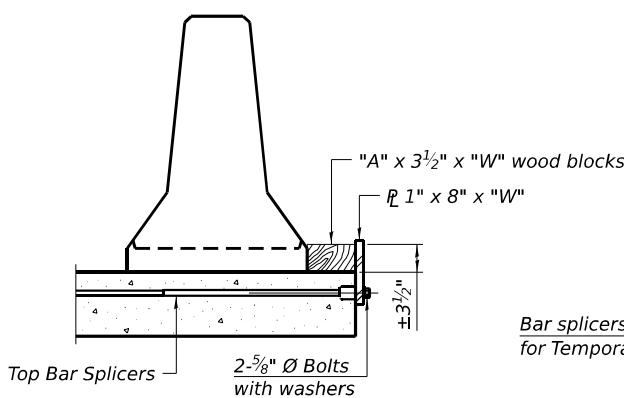
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

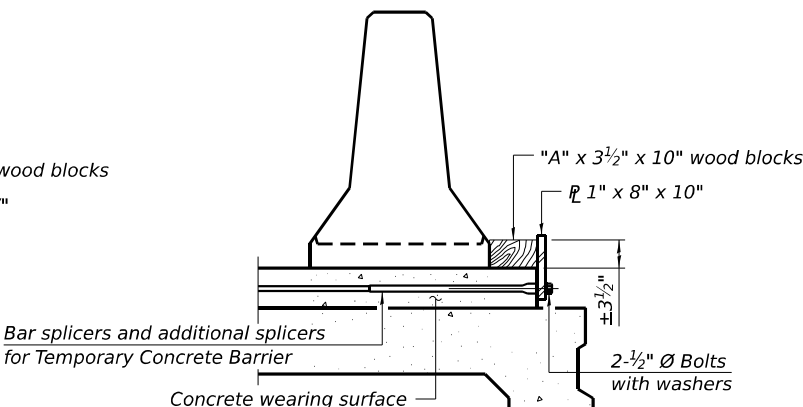


RESTRAINING PIN

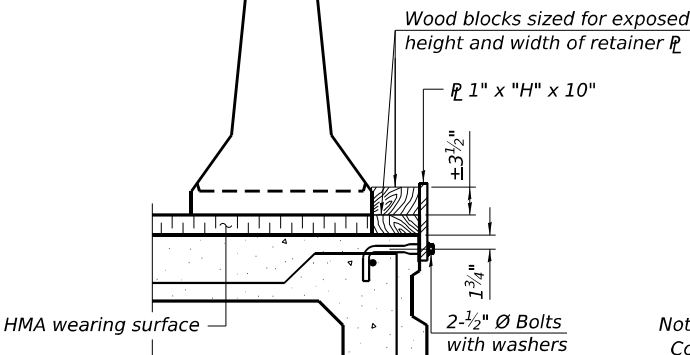
SECTIONS THRU SLAB OR DECK BEAM



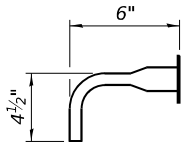
DETAIL I



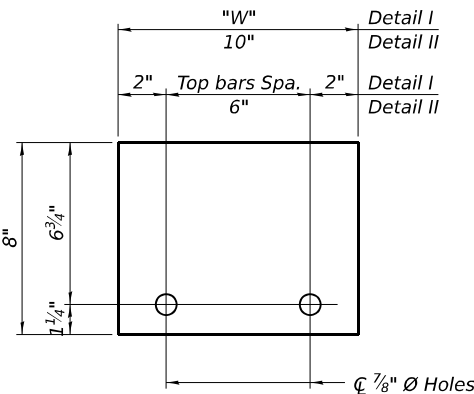
DETAIL II



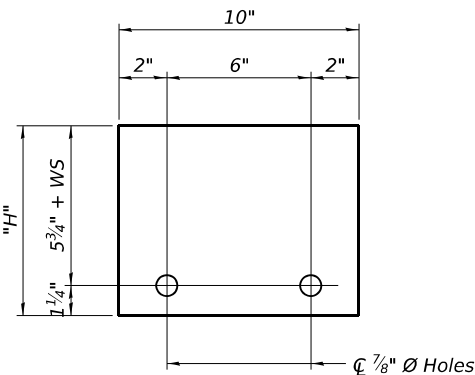
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

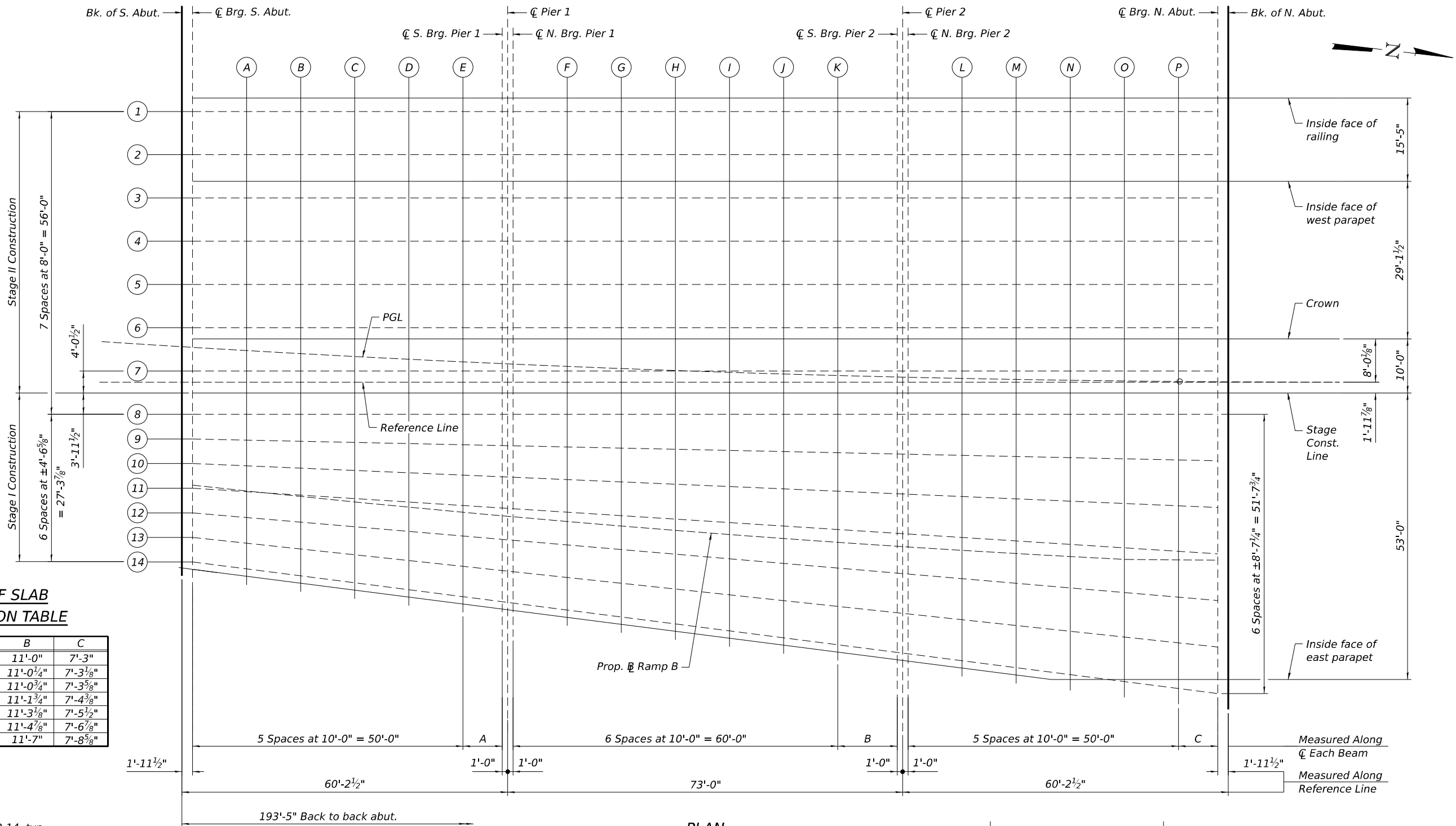
5-15-2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NUMBER 099-8306

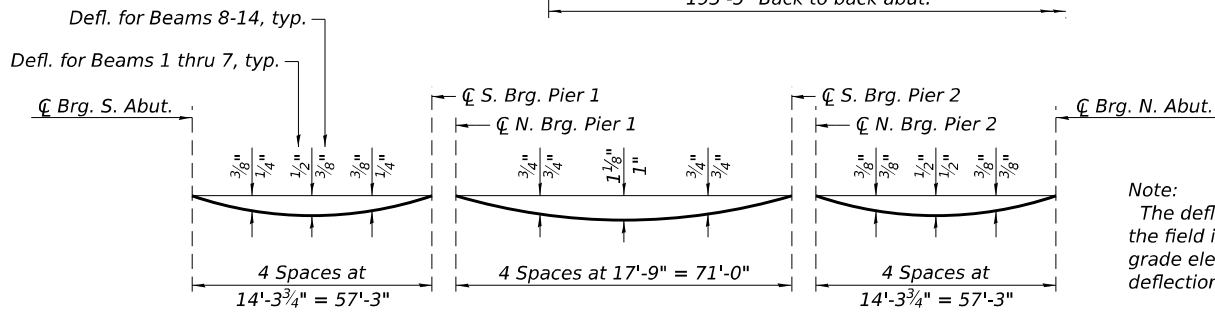
SHEET SC-11 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	840
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



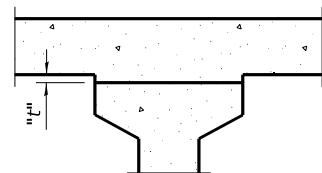
TOP OF SLAB
DIMENSION TABLE

Beam	A	B	C
1 thru 8	7'-3"	11'-0"	7'-3"
9	7'-3 1/8"	11'-0 1/4"	7'-3 1/8"
10	7'-3 5/8"	11'-0 3/4"	7'-3 5/8"
11	7'-4 3/8"	11'-1 3/4"	7'-4 3/8"
12	7'-5 1/2"	11'-3 1/8"	7'-5 1/2"
13	7'-6 7/8"	11'-4 7/8"	7'-6 7/8"
14	7'-8 5/8"	11'-7"	7'-8 5/8"



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete, excluding beams.)

Note:
The deflections to the left are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets SC-13 thru SC-17.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheets SC-13 thru SC-17. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown above, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS PLAN
STRUCTURE NUMBER 099-8306

SHEET SC-12 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	841
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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PLOT SCALE	= 19:11.9904 '"/in.
PLOT DATE	= 12/2/2025

DESIGNED	- NBR
CHECKED	- MAI
DRAWN	- NBR
CHECKED	- MAI

REVISED	-
REVISED	-
REVISED	-
REVISED	-

INSIDE FACE OF WEST RAILING

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+68.36	-45.92	534.18	534.18
☐ Brg. South Abut.	203+70.34	-46.04	534.23	534.23
A	203+80.46	-46.64	534.47	534.49
B	203+90.58	-47.21	534.71	534.74
C	204+00.70	-47.75	534.95	534.99
D	204+10.83	-48.26	535.19	535.22
E	204+20.96	-48.74	535.43	535.45
☐ S. Brg Pier 1	204+28.30	-49.08	535.60	535.60
☐ Pier 1	204+29.31	-49.12	535.62	535.62
☐ N. Brg. Pier 1	204+30.33	-49.17	535.65	535.65
F	204+40.46	-49.59	535.88	535.91
G	204+50.60	-49.99	536.12	536.18
H	204+60.74	-50.36	536.35	536.44
I	204+70.88	-50.71	536.59	536.68
J	204+81.02	-51.02	536.82	536.89
K	204+91.16	-51.30	537.06	537.10
☐ S. Brg. Pier 2	205+02.32	-51.58	537.31	537.31
☐ Pier 2	205+03.34	-51.60	537.34	537.34
☐ N. Brg. Pier 2	205+04.35	-51.63	537.36	537.36
L	205+14.50	-51.84	537.59	537.61
M	205+24.65	-52.03	537.82	537.86
N	205+34.80	-52.19	538.06	538.10
O	205+44.95	-52.32	538.29	538.32
P	205+55.10	-52.42	538.52	538.53
☐ Brg. North Abut.	205+62.46	-52.48	538.68	538.68
Bk. of North Abut.	205+64.45	-52.49	538.73	538.73

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+68.52	-43.42	534.23	534.23
☐ Brg. South Abut.	203+70.50	-43.54	534.28	534.28
A	203+80.61	-44.14	534.52	534.54
B	203+90.72	-44.71	534.76	534.79
C	204+00.83	-45.25	535.00	535.04
D	204+10.95	-45.76	535.24	535.27
E	204+21.07	-46.25	535.48	535.50
☐ S. Brg Pier 1	204+28.41	-46.58	535.65	535.65
☐ Pier 1	204+29.43	-46.62	535.67	535.67
☐ N. Brg. Pier 1	204+30.44	-46.67	535.70	535.70
F	204+40.57	-47.10	535.93	535.96
G	204+50.69	-47.50	536.17	536.23
H	204+60.83	-47.87	536.40	536.49
I	204+70.96	-48.21	536.64	536.73
J	204+81.09	-48.52	536.87	536.94
K	204+91.23	-48.80	537.11	537.15
☐ S. Brg. Pier 2	205+02.38	-49.08	537.36	537.36
☐ Pier 2	205+03.40	-49.10	537.39	537.39
☐ N. Brg. Pier 2	205+04.41	-49.13	537.41	537.41
L	205+14.55	-49.34	537.64	537.66
M	205+24.69	-49.53	537.87	537.91
N	205+34.84	-49.69	538.11	538.15
O	205+44.98	-49.82	538.34	538.37
P	205+55.12	-49.92	538.57	538.58
☐ Brg. North Abut.	205+62.48	-49.98	538.73	538.73
Bk. of North Abut.	205+64.46	-49.99	538.78	538.78

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+69.02	-35.44	534.39	534.39
☐ Brg. South Abut.	203+70.99	-35.56	534.44	534.44
A	203+81.08	-36.15	534.68	534.70
B	203+91.17	-36.72	534.92	534.96
C	204+01.26	-37.26	535.16	535.20
D	204+11.36	-37.77	535.40	535.43
E	204+21.45	-38.26	535.64	535.66
☐ S. Brg Pier 1	204+28.78	-38.59	535.81	535.81
☐ Pier 1	204+29.79	-38.63	535.83	535.83
☐ N. Brg. Pier 1	204+30.80	-38.68	535.86	535.86
F	204+40.90	-39.10	536.09	536.12
G	204+51.01	-39.50	536.33	536.39
H	204+61.11	-39.87	536.56	536.65
I	204+71.22	-40.21	536.80	536.89
J	204+81.34	-40.52	537.03	537.10
K	204+91.45	-40.81	537.27	537.31
☐ S. Brg. Pier 2	205+02.58	-41.08	537.52	537.52
☐ Pier 2	205+03.59	-41.11	537.55	537.55
☐ N. Brg. Pier 2	205+04.60	-41.13	537.57	537.57
L	205+14.72	-41.35	537.80	537.82
M	205+24.83	-41.53	538.03	538.07
N	205+34.95	-41.69	538.27	538.31
O	205+45.07	-41.82	538.50	538.53
P	205+55.19	-41.92	538.73	538.74
☐ Brg. N. Abut.	205+62.53	-41.98	538.89	538.89
Bk. of North Abut.	205+64.51	-41.99	538.94	538.94

INSIDE FACE OF WEST PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+69.33	-30.53	534.49	534.49
☐ Brg. South Abut.	203+71.30	-30.65	534.54	534.54
A	203+81.37	-31.25	534.78	534.80
B	203+91.44	-31.81	535.02	535.05
C	204+01.52	-32.35	535.26	535.30
D	204+11.60	-32.86	535.50	535.53
E	204+21.69	-33.35	535.73	535.75
☐ S. Brg Pier 1	204+29.00	-33.68	535.91	535.91
☐ Pier 1	204+30.01	-33.72	535.93	535.93
☐ N. Brg. Pier 1	204+31.02	-33.77	535.95	535.95
F	204+41.10	-34.19	536.19	536.22
G	204+51.20	-34.59	536.43	536.49
H	204+61.29	-34.96	536.66	536.74
I	204+71.39	-35.30	536.90	536.99
J	204+81.48	-35.61	537.13	537.20
K	204+91.58	-35.89	537.37	537.41
☐ S. Brg. Pier 2	205+02.69	-36.17	537.62	537.62
☐ Pier 2	205+03.70	-36.19	537.65	537.65
☐ N. Brg. Pier 2	205+04.71	-36.21	537.67	537.67
L	205+14.82	-36.43	537.90	537.92
M	205+24.92	-36.62	538.13	538.17
N	205+35.02	-36.78	538.36	538.40
O	205+45.13	-36.91	538.59	538.63
P	205+55.24	-37.01	538.82	538.84
☐ Brg. North Abut.	205+62.56	-37.06	538.99	538.99
Bk. of North Abut.	205+64.54	-37.07	539.04	539.04

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+69.52	-27.45	534.55	534.55
☐ Brg. South Abut.	203+71.49	-27.57	534.60	534.60
A	203+81.55	-28.17	534.84	534.86
B	203+91.62	-28.73	535.08	535.12
C	204+01.68	-29.27	535.32	535.36
D	204+11.76	-29.78	535.56	535.59
E	204+21.83	-30.27	535.80	535.82
☐ S. Brg Pier 1	204+29.14	-30.60	535.97	535.97
☐ Pier 1	204+30.15	-30.64	535.99	535.99
☐ N. Brg. Pier 1	204+31.15	-30.68	536.02	536.02
F	204+41.23	-31.11	536.25	536.28
G	204+51.32	-31.51	536.49	536.55
H	204+61.40	-31.88	536.72	536.81
I	204+71.49	-32.22	536.96	537.05
J	204+81.57	-32.53	537.19	537.26
K	204+91.67	-32.81	537.43	537.47
☐ S. Brg. Pier 2	205+02.77	-33.09	537.68	537.68
☐ Pier 2	205+03.78	-33.11	537.71	537.71
☐ N. Brg. Pier 2	205+04.78	-33.13	537.73	537.73
L	205+14.88	-33.35	537.96	537.98
M	205+24.97	-33.53	538.19	538.23
N	205+35.07	-33.69	538.43	538.47
O	205+45.17	-33.82	538.66	538.69
P	205+55.26	-33.92	538.89	538.90
☐ Brg. North Abut.	205+62.58	-33.98	539.05	539.05
Bk. of North Abut.	205+64.56	-33.99	539.10	539.10

NOTES:

1. All Elevations and Offsets are in feet.
2. Offsets are measured with respect to the PGL. Negative offsets are left and positive are right of the PGL.

MODEL: Default
FILE NAME: C:\0908306\62F94-5013-TSE02.dgn



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

USER NAME = lauxj	DESIGNED - NBR	REVISED -
	CHECKED - MAI	REVISED -
PLOT SCALE = 0:1.9999 " = 1 in.	DRAWN - NBR	REVISED -
PLOT DATE = 12/2/2025	CHECKED - MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS 1
STRUCTURE NUMBER 099-8306

SHEET SC-13 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	842
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+70.01	-19.47	534.71	534.71
☐ Brg. South Abut.	203+71.98	-19.59	534.76	534.76
A	203+82.02	-20.18	535.00	535.02
B	203+92.06	-20.75	535.24	535.28
C	204+02.11	-21.28	535.48	535.52
D	204+12.16	-21.79	535.72	535.75
E	204+22.21	-22.27	535.96	535.97
☐ S. Brg Pier 1	204+29.50	-22.60	536.13	536.13
☐ Pier 1	204+30.50	-22.65	536.15	536.15
☐ N. Brg. Pier 1	204+31.51	-22.69	536.18	536.18
F	204+41.56	-23.12	536.41	536.44
G	204+51.62	-23.51	536.65	536.71
H	204+61.69	-23.88	536.88	536.97
I	204+71.75	-24.22	537.12	537.21
J	204+81.81	-24.53	537.35	537.42
K	204+91.88	-24.81	537.59	537.63
☐ S. Brg. Pier 2	205+02.96	-25.09	537.84	537.84
☐ Pier 2	205+03.96	-25.11	537.87	537.87
☐ N. Brg. Pier 2	205+04.97	-25.13	537.89	537.89
L	205+15.04	-25.35	538.12	538.14
M	205+25.11	-25.54	538.35	538.39
N	205+35.18	-25.69	538.59	538.63
O	205+45.26	-25.82	538.82	538.85
P	205+55.33	-25.92	539.05	539.06
☐ Brg. North Abut.	205+62.64	-25.98	539.21	539.21
Bk. of North Abut.	205+64.61	-25.99	539.26	539.26

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+70.51	-11.48	534.87	534.87
☐ Brg. South Abut.	203+72.47	-11.60	534.92	534.92
A	203+82.48	-12.19	535.16	535.18
B	203+92.50	-12.76	535.40	535.44
C	204+02.53	-13.30	535.64	535.68
D	204+12.55	-13.80	535.88	535.91
E	204+22.58	-14.28	536.12	536.13
☐ S. Brg Pier 1	204+29.85	-14.61	536.29	536.29
☐ Pier 1	204+30.86	-14.66	536.31	536.31
☐ N. Brg. Pier 1	204+31.86	-14.70	536.34	536.34
F	204+41.89	-15.12	536.57	536.61
G	204+51.93	-15.52	536.81	536.87
H	204+61.97	-15.89	537.04	537.13
I	204+72.01	-16.22	537.28	537.37
J	204+82.05	-16.53	537.51	537.58
K	204+92.10	-16.81	537.75	537.79
☐ S. Brg. Pier 2	205+03.15	-17.09	538.00	538.00
☐ Pier 2	205+04.15	-17.11	538.03	538.03
☐ N. Brg. Pier 2	205+05.15	-17.14	538.05	538.05
L	205+15.20	-17.35	538.28	538.30
M	205+25.25	-17.54	538.51	538.55
N	205+35.30	-17.69	538.75	538.79
O	205+45.35	-17.82	538.98	539.01
P	205+55.40	-17.92	539.21	539.22
☐ Brg. North Abut.	205+62.69	-17.98	539.37	539.37
Bk. of North Abut.	205+64.66	-17.99	539.42	539.42

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+71.00	-3.50	535.03	535.03
☐ Brg. South Abut.	203+72.95	-3.62	535.08	535.08
A	203+82.95	-4.21	535.32	535.34
B	203+92.95	-4.77	535.56	535.60
C	204+02.95	-5.31	535.80	535.84
D	204+12.95	-5.81	536.04	536.07
E	204+22.95	-6.29	536.28	536.29
☐ S. Brg Pier 1	204+30.21	-6.62	536.45	536.45
☐ Pier 1	204+31.21	-6.66	536.47	536.47
☐ N. Brg. Pier 1	204+32.21	-6.71	536.50	536.50
F	204+42.22	-7.13	536.73	536.77
G	204+52.24	-7.53	536.97	537.03
H	204+62.25	-7.89	537.20	537.29
I	204+72.27	-8.23	537.44	537.53
J	204+82.29	-8.54	537.67	537.74
K	204+92.31	-8.82	537.91	537.95
☐ S. Brg. Pier 2	205+03.33	-9.09	538.16	538.16
☐ Pier 2	205+04.34	-9.12	538.19	538.19
☐ N. Brg. Pier 2	205+05.34	-9.14	538.21	538.21
L	205+15.36	-9.35	538.44	538.46
M	205+25.39	-9.54	538.67	538.71
N	205+35.41	-9.70	538.91	538.95
O	205+45.44	-9.82	539.14	539.17
P	205+55.47	-9.92	539.37	539.38
☐ Brg. North Abut.	205+62.74	-9.98	539.53	539.53
Bk. of North Abut.	205+64.70	-9.99	539.58	539.58

CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+71.12	-1.46	535.08	535.08
☐ Brg. South Abut.	203+73.08	-1.58	535.12	535.12
A	203+83.07	-2.17	535.36	535.38
B	203+93.06	-2.73	535.60	535.64
C	204+03.05	-3.27	535.84	535.88
D	204+13.05	-3.78	536.08	536.11
E	204+23.05	-4.25	536.32	536.33
☐ S. Brg Pier 1	204+30.30	-4.58	536.49	536.49
☐ Pier 1	204+31.30	-4.63	536.51	536.51
☐ N. Brg. Pier 1	204+32.30	-4.67	536.54	536.54
F	204+42.31	-5.09	536.77	536.81
G	204+52.31	-5.49	537.01	537.08
H	204+62.32	-5.85	537.25	537.33
I	204+72.33	-6.19	537.48	537.57
J	204+82.35	-6.50	537.71	537.78
K	204+92.36	-6.78	537.95	537.99
☐ S. Brg. Pier 2	205+03.38	-7.05	538.20	538.20
☐ Pier 2	205+04.38	-7.08	538.23	538.23
☐ N. Brg. Pier 2	205+05.39	-7.10	538.25	538.25
L	205+15.40	-7.31	538.48	538.50
M	205+25.42	-7.50	538.71	538.75
N	205+35.44	-7.66	538.95	538.99
O	205+45.46	-7.78	539.18	539.21
P	205+55.49	-7.88	539.41	539.42
☐ Brg. North Abut.	205+62.75	-7.94	539.57	539.57
Bk. of North Abut.	205+64.72	-7.95	539.62	539.62

PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+71.21	0.00	535.05	535.05
☐ Brg. South Abut.	203+73.17	0.00	535.09	535.09
A	203+83.19	0.00	535.32	535.34
B	203+93.21	0.00	535.55	535.58
C	204+03.22	0.00	535.78	535.82
D	204+13.23	0.00	536.00	536.04
E	204+23.25	0.00	536.23	536.25
☐ S. Brg Pier 1	204+30.50	0.00	536.40	536.40
☐ Pier 1	204+31.50	0.00	536.42	536.42
☐ N. Brg. Pier 1	204+32.51	0.00	536.44	536.44
F	204+42.51	0.00	536.67	536.71
G	204+52.52	0.00	536.90	536.97
H	204+62.53	0.00	537.13	537.21
I	204+72.53	0.00	537.36	537.44
J	204+82.54	0.00	537.58	537.65
K	204+92.54	0.00	537.81	537.85
☐ S. Brg. Pier 2	205+03.55	0.00	538.06	538.06
☐ Pier 2	205+04.55	0.00	538.09	538.09
☐ N. Brg. Pier 2	205+05.55	0.00	538.11	538.11
L	205+15.55	0.00	538.34	538.36
M	205+25.55	0.00	538.56	538.60
N	205+35.55	0.00	538.79	538.83
O	205+45.55	0.00	539.02	539.05
P	205+55.55	0.00	539.25	539.26
☐ Brg. North Abut.	205+62.80	0.00	539.41	539.41
Bk. of North Abut.	205+64.76	0.00	539.46	539.46

NOTES:

1. All Elevations and Offsets are in feet.
2. Offsets are measured with respect to the PGL. Negative offsets are left and positive are right of the PGL.

MODEL: Default
FILE NAME: C:\0908306\62F94-501\4-TSE03.dgn



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

USER NAME	= lauxj	DESIGNED	-	NBR	REVISED	-
		CHECKED	-	MAI	REVISED	-
PLOT SCALE	= 0:1.9999 "x" / in.	DRAWN	-	NBR	REVISED	-
PLOT DATE	= 12/2/2025	CHECKED	-	MAI	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS 2
STRUCTURE NUMBER 099-8306

SHEET SC-14 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	843
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+71.49	4.49	534.96	534.96
☐ Brg. South Abut.	203+73.44	4.37	535.00	535.00
A	203+83.41	3.78	535.24	535.27
B	203+93.38	3.22	535.48	535.52
C	204+03.36	2.68	535.72	535.76
D	204+13.34	2.18	535.96	535.99
E	204+23.33	1.70	536.20	536.21
☐ S. Brg Pier 1	204+30.56	1.37	536.37	536.37
☐ Pier 1	204+31.56	1.33	536.39	536.39
☐ N. Brg. Pier 1	204+32.56	1.28	536.42	536.42
F	204+42.55	0.86	536.65	536.69
G	204+52.54	0.47	536.89	536.96
H	204+62.53	0.10	537.13	537.21
I	204+72.53	-0.23	537.36	537.45
J	204+82.52	-0.54	537.59	537.66
K	204+92.52	-0.82	537.83	537.87
☐ S. Brg. Pier 2	205+03.52	-1.09	538.09	538.09
☐ Pier 2	205+04.52	-1.12	538.11	538.11
☐ N. Brg. Pier 2	205+05.52	-1.14	538.13	538.13
L	205+15.52	-1.35	538.36	538.39
M	205+25.53	-1.54	538.60	538.63
N	205+35.53	-1.70	538.83	538.87
O	205+45.53	-1.82	539.06	539.09
P	205+55.54	-1.92	539.29	539.30
☐ Brg. North Abut.	205+62.79	-1.98	539.45	539.45
Bk. of North Abut.	205+64.75	-1.99	539.50	539.50

REFERENCE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+71.61	6.54	534.91	534.91
☐ Brg. South Abut.	203+73.56	6.42	534.96	534.96
A	203+83.53	5.83	535.20	535.22
B	203+93.50	5.26	535.44	535.48
C	204+03.47	4.73	535.68	535.72
D	204+13.44	4.23	535.92	535.95
E	204+23.42	3.75	536.16	536.17
☐ S. Brg Pier 1	204+30.66	3.42	536.33	536.33
☐ Pier 1	204+31.65	3.38	536.35	536.35
☐ N. Brg. Pier 1	204+32.65	3.33	536.38	536.38
F	204+42.63	2.91	536.61	536.65
G	204+52.62	2.52	536.85	536.92
H	204+62.60	2.15	537.08	537.17
I	204+72.59	1.82	537.32	537.41
J	204+82.58	1.51	537.55	537.62
K	204+92.58	1.23	537.79	537.83
☐ S. Brg. Pier 2	205+03.57	0.96	538.04	538.04
☐ Pier 2	205+04.57	0.93	538.07	538.07
☐ N. Brg. Pier 2	205+05.57	0.91	538.09	538.09
L	205+15.56	0.70	538.32	538.34
M	205+25.56	0.51	538.55	538.59
N	205+35.56	0.35	538.79	538.83
O	205+45.56	0.23	539.02	539.05
P	205+55.56	0.13	539.25	539.26
☐ Brg. North Abut.	205+62.80	0.07	539.41	539.41
Bk. of North Abut.	205+64.76	0.06	539.46	539.46

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+71.73	8.52	534.88	534.88
☐ Brg. South Abut.	203+73.68	8.40	534.92	534.92
A	203+83.64	7.81	535.16	535.19
B	203+93.61	7.25	535.40	535.44
C	204+03.57	6.72	535.64	535.68
D	204+13.54	6.21	535.88	535.91
E	204+23.51	5.74	536.12	536.13
☐ S. Brg Pier 1	204+30.74	5.41	536.29	536.29
☐ Pier 1	204+31.74	5.37	536.31	536.31
☐ N. Brg. Pier 1	204+32.74	5.32	536.34	536.34
F	204+42.71	4.90	536.57	536.61
G	204+52.69	4.51	536.81	536.88
H	204+62.67	4.14	537.04	537.13
I	204+72.66	3.81	537.28	537.37
J	204+82.64	3.50	537.51	537.58
K	204+92.63	3.22	537.75	537.79
☐ S. Brg. Pier 2	205+03.62	2.95	538.00	538.00
☐ Pier 2	205+04.61	2.92	538.03	538.03
☐ N. Brg. Pier 2	205+05.61	2.90	538.05	538.05
L	205+15.60	2.69	538.28	538.31
M	205+25.59	2.50	538.51	538.55
N	205+35.59	2.35	538.75	538.79
O	205+45.58	2.22	538.98	539.01
P	205+55.57	2.12	539.21	539.22
☐ Brg. North Abut.	205+62.82	2.06	539.37	539.37
Bk. of North Abut.	205+64.77	2.05	539.42	539.42

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+71.97	12.47	534.80	534.80
☐ Brg. South Abut.	203+73.92	12.36	534.84	534.84
A	203+83.87	11.77	535.08	535.10
B	203+93.82	11.20	535.32	535.35
C	204+03.78	10.67	535.56	535.59
D	204+13.73	10.17	535.80	535.82
E	204+23.69	9.69	536.04	536.05
☐ S. Brg Pier 1	204+30.92	9.36	536.21	536.21
☐ Pier 1	204+31.91	9.32	536.23	536.23
☐ N. Brg. Pier 1	204+32.91	9.28	536.26	536.26
F	204+42.88	8.86	536.49	536.53
G	204+52.84	8.46	536.73	536.80
H	204+62.81	8.10	536.97	537.04
I	204+72.78	7.76	537.20	537.28
J	204+82.76	7.46	537.43	537.50
K	204+92.73	7.18	537.67	537.71
☐ S. Brg. Pier 2	205+03.71	6.90	537.93	537.93
☐ Pier 2	205+04.71	6.88	537.95	537.95
☐ N. Brg. Pier 2	205+05.70	6.86	537.97	537.97
L	205+15.68	6.64	538.20	538.23
M	205+25.66	6.46	538.44	538.47
N	205+35.64	6.30	538.67	538.71
O	205+45.62	6.18	538.90	538.93
P	205+55.61	6.08	539.13	539.14
☐ Brg. North Abut.	205+62.84	6.02	539.29	539.29
Bk. of North Abut.	205+64.80	6.01	539.34	539.34

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+72.25	16.98	534.71	534.71
☐ Brg. South Abut.	203+74.20	16.90	534.75	534.75
A	203+84.14	16.53	534.98	535.00
B	203+94.09	16.18	535.22	535.25
C	204+04.04	15.86	535.45	535.48
D	204+13.99	15.57	535.69	535.71
E	204+23.94	15.31	535.92	535.93
☐ S. Brg Pier 1	204+31.17	15.14	536.09	536.09
☐ Pier 1	204+32.17	15.11	536.12	536.12
☐ N. Brg. Pier 1	204+33.16	15.09	536.14	536.14
F	204+43.12	14.89	536.37	536.41
G	204+53.07	14.71	536.60	536.67
H	204+63.03	14.56	536.83	536.91
I	204+72.99	14.44	537.06	537.14
J	204+82.95	14.34	537.29	537.36
K	204+92.91	14.28	537.52	537.56
☐ S. Brg. Pier 2	205+03.88	14.24	537.78	537.78
☐ Pier 2	205+04.87	14.24	537.80	537.80
☐ N. Brg. Pier 2	205+05.87	14.24	537.82	537.82
L	205+15.83	14.24	538.05	538.07
M	205+25.79	14.27	538.28	538.31
N	205+35.75	14.33	538.50	538.54
O	205+45.71	14.41	538.73	538.76
P	205+55.67	14.53	538.96	538.97
☐ Brg. North Abut.	205+62.90	14.63	539.12	539.12
Bk. of North Abut.	205+64.85	14.66	539.17	539.17

NOTES:

1. All Elevations and Offsets are in feet.
2. Offsets are measured with respect to the PGL. Negative offsets are left and positive are right of the PGL.

MODEL Default
FILE NAME C:\0908306\62F94-5015-TSE04.dgn



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

USER NAME	= lauxj	DESIGNED	-	NBR	REVISED	-
		CHECKED	-	MAI	REVISED	-
PLOT SCALE	= 0:1,9999 " = 1 in.	DRAWN	-	NBR	REVISED	-
PLOT DATE	= 12/2/2025	CHECKED	-	MAI	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS 3
STRUCTURE NUMBER 099-8306

SHEET SC-15 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	844
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: C:\0998306\62F94-5016-TSE05.dgn



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

BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+72.52	21.48	534.62	534.62
☐ Brg. South Abut.	203+74.47	21.45	534.66	534.66
A	203+84.41	21.29	534.89	534.91
B	203+94.35	21.15	535.12	535.15
C	204+04.28	21.05	535.35	535.38
D	204+14.22	20.97	535.58	535.60
E	204+24.16	20.93	535.81	535.82
☐ S. Brg Pier 1	204+31.42	20.91	535.98	535.98
☐ Pier 1	204+32.42	20.91	536.00	536.00
☐ N. Brg. Pier 1	204+33.41	20.91	536.02	536.02
F	204+43.35	20.92	536.25	536.29
G	204+53.29	20.95	536.48	536.54
H	204+63.24	21.02	536.70	536.78
I	204+73.17	21.11	536.93	537.01
J	204+83.11	21.23	537.15	537.22
K	204+93.05	21.38	537.38	537.42
☐ S. Brg. Pier 2	205+04.05	21.58	537.63	537.63
☐ Pier 2	205+05.04	21.60	537.65	537.65
☐ N. Brg. Pier 2	205+06.04	21.62	537.68	537.68
L	205+15.97	21.83	537.90	537.92
M	205+25.91	22.08	538.12	538.16
N	205+35.84	22.35	538.34	538.38
O	205+45.77	22.65	538.57	538.60
P	205+55.70	22.98	538.79	538.80
☐ Brg. North Abut.	205+62.95	23.24	538.95	538.95
Bk. of North Abut.	205+64.90	23.31	538.99	538.99

PROP. ☐ RAMP B

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+72.75	25.36	534.54	534.54
☐ Brg. South Abut.	203+74.71	25.45	534.58	534.58
A	203+84.62	25.93	534.80	534.81
B	203+94.54	26.40	535.01	535.04
C	204+04.45	26.87	535.23	535.26
D	204+14.37	27.33	535.45	535.47
E	204+24.28	27.79	535.67	535.67
☐ S. Brg Pier 1	204+31.74	28.13	535.83	535.83
☐ Pier 1	204+32.73	28.17	535.86	535.86
☐ N. Brg. Pier 1	204+33.73	28.22	535.88	535.88
F	204+43.64	28.67	536.09	536.13
G	204+53.55	29.11	536.31	536.38
H	204+63.45	29.55	536.53	536.61
I	204+73.36	29.98	536.75	536.83
J	204+83.27	30.41	536.97	537.03
K	204+93.17	30.83	537.19	537.22
☐ S. Brg. Pier 2	205+04.27	31.29	537.44	537.44
☐ Pier 2	205+05.26	31.34	537.46	537.46
☐ N. Brg. Pier 2	205+06.26	31.38	537.48	537.48
L	205+16.16	31.79	537.70	537.72
M	205+26.06	32.19	537.92	537.95
N	205+35.96	32.59	538.14	538.18
O	205+45.86	32.99	538.36	538.39
P	205+55.55	33.00	538.58	538.60
☐ Brg. North Abut.	205+63.01	33.00	538.75	538.75
Bk. of North Abut.	205+64.95	33.00	538.80	538.80

BEAM 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+72.79	25.99	534.53	534.53
☐ Brg. South Abut.	203+74.74	25.99	534.57	534.57
A	203+84.67	26.05	534.79	534.81
B	203+94.59	26.13	535.02	535.05
C	204+04.52	26.24	535.24	535.27
D	204+14.44	26.38	535.47	535.49
E	204+24.37	26.54	535.69	535.70
☐ S. Brg Pier 1	204+31.68	26.68	535.86	535.86
☐ Pier 1	204+32.67	26.70	535.89	535.89
☐ N. Brg. Pier 1	204+33.66	26.72	535.91	535.91
F	204+43.59	26.95	536.13	536.17
G	204+53.51	27.20	536.35	536.42
H	204+63.42	27.47	536.57	536.65
I	204+73.34	27.78	536.79	536.87
J	204+83.26	28.12	537.01	537.08
K	204+93.17	28.48	537.24	537.27
☐ S. Brg. Pier 2	205+04.22	28.92	537.48	537.48
☐ Pier 2	205+05.21	28.96	537.51	537.51
☐ N. Brg. Pier 2	205+06.20	29.00	537.53	537.53
L	205+16.11	29.43	537.74	537.77
M	205+26.02	29.89	537.96	538.00
N	205+35.92	30.37	538.18	538.22
O	205+45.82	30.88	538.40	538.43
P	205+55.72	31.43	538.62	538.63
☐ Brg. North Abut.	205+63.01	31.84	538.78	538.78
Bk. of North Abut.	205+64.95	31.96	538.82	538.82

BEAM 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+73.06	30.49	534.43	534.43
☐ Brg. South Abut.	203+75.01	30.54	534.48	534.48
A	203+84.92	30.81	534.70	534.72
B	203+94.83	31.10	534.92	534.95
C	204+04.74	31.42	535.14	535.17
D	204+14.64	31.78	535.36	535.38
E	204+24.54	32.15	535.58	535.59
☐ S. Brg Pier 1	204+31.93	32.46	535.75	535.75
☐ Pier 1	204+32.92	32.50	535.77	535.77
☐ N. Brg. Pier 1	204+33.91	32.54	535.79	535.79
F	204+43.81	32.98	536.01	536.05
G	204+53.71	33.44	536.22	536.29
H	204+63.60	33.93	536.44	536.52
I	204+73.49	34.45	536.66	536.74
J	204+83.38	35.00	536.88	536.94
K	204+93.26	35.57	537.09	537.13
☐ S. Brg. Pier 2	205+04.39	36.25	537.34	537.34
☐ Pier 2	205+05.38	36.32	537.36	537.36
☐ N. Brg. Pier 2	205+06.37	36.38	537.38	537.38
L	205+16.24	37.02	537.59	537.62
M	205+26.12	37.69	537.81	537.84
N	205+35.98	38.39	538.02	538.06
O	205+45.85	39.12	538.23	538.27
P	205+55.71	39.87	538.45	538.46
☐ Brg. North Abut.	205+63.06	40.45	538.61	538.61
Bk. of North Abut.	205+65.00	40.61	538.65	538.65

BEAM 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+73.33	34.99	534.34	534.34
☐ Brg. South Abut.	203+75.28	35.08	534.39	534.39
A	203+85.17	35.56	534.60	534.62
B	203+95.06	36.07	534.82	534.85
C	204+04.94	36.61	535.03	535.06
D	204+14.82	37.17	535.25	535.27
E	204+24.70	37.76	535.47	535.47
☐ S. Brg Pier 1	204+32.18	38.23	535.63	535.63
☐ Pier 1	204+33.17	38.29	535.65	535.65
☐ N. Brg. Pier 1	204+34.16	38.36	535.68	535.68
F	204+44.03	39.00	535.88	535.93
G	204+53.90	39.68	536.10	536.17
H	204+63.76	40.38	536.31	536.39
I	204+73.62	41.11	536.52	536.60
J	204+83.47	41.87	536.74	536.80
K	204+93.32	42.66	536.95	536.98
☐ S. Brg. Pier 2	205+04.55	43.59	537.19	537.19
☐ Pier 2	205+05.54	43.68	537.21	537.21
☐ N. Brg. Pier 2	205+06.53	43.76	537.23	537.23
L	205+16.37	44.61	537.44	537.46
M	205+26.21	45.50	537.65	537.69
N	205+36.04	46.40	537.86	537.90
O	205+45.86	47.34	538.07	538.10
P	205+55.68	48.31	538.27	538.29
☐ Brg. North Abut.	205+63.12	49.06	538.43	538.43
Bk. of North Abut.	205+65.05	49.25	538.47	538.47

NOTES:

1. All Elevations and Offsets are in feet.
2. Offsets are measured with respect to the PGL. Negative offsets are left and positive are right of the PGL.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS 4
STRUCTURE NUMBER 099-8306

SHEET SC-16 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	845
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

USER NAME = lauxj	DESIGNED - NBR	REVISED -
	CHECKED - MAI	REVISED -
PLOT SCALE = 0:1.9999 "/>		

BEAM 14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+73.60	39.50	534.25	534.25
⌒ Brg. South Abut.	203+75.55	39.63	534.30	534.30
A	203+85.42	40.32	534.51	534.52
B	203+95.28	41.04	534.72	534.74
C	204+05.13	41.79	534.93	534.96
D	204+14.98	42.56	535.14	535.16
E	204+24.83	43.36	535.35	535.36
⌒ S. Brg Pier 1	204+32.43	44.00	535.52	535.52
⌒ Pier 1	204+33.42	44.09	535.54	535.54
⌒ N. Brg. Pier 1	204+34.41	44.17	535.56	535.56
F	204+44.25	45.03	535.76	535.81
G	204+54.08	45.92	535.97	536.04
H	204+63.91	46.83	536.18	536.26
I	204+73.73	47.77	536.39	536.46
J	204+83.55	48.74	536.60	536.66
K	204+93.36	49.74	536.80	536.84
⌒ S. Brg. Pier 2	205+04.72	50.93	537.04	537.04
⌒ Pier 2	205+05.71	51.04	537.06	537.06
⌒ N. Brg. Pier 2	205+06.70	51.14	537.09	537.09
L	205+16.50	52.21	537.29	537.31
M	205+26.29	53.30	537.49	537.53
N	205+36.07	54.42	537.70	537.74
O	205+45.85	55.56	537.90	537.93
P	205+55.63	56.74	538.10	538.12
⌒ Brg. North Abut.	205+63.17	57.66	538.26	538.26
Bk. of North Abut.	205+65.10	57.90	538.30	538.30

INSIDE FACE OF EAST PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of South Abut.	203+73.69	40.84	534.23	534.23
⌒ Brg. South Abut.	203+75.63	40.97	534.27	534.27
A	203+85.49	41.66	534.48	534.50
B	203+95.35	42.38	534.69	534.72
C	204+05.20	43.13	534.90	534.93
D	204+15.05	43.90	535.11	535.13
E	204+24.89	44.71	535.32	535.33
⌒ S. Brg Pier 1	204+32.49	45.35	535.49	535.49
⌒ Pier 1	204+33.48	45.43	535.51	535.51
⌒ N. Brg. Pier 1	204+34.47	45.52	535.53	535.53
F	204+44.38	46.38	535.74	535.78
G	204+54.29	47.27	535.95	536.01
H	204+64.20	48.20	536.15	536.23
I	204+74.10	49.15	536.36	536.44
J	204+83.99	50.13	536.57	536.63
K	204+93.88	51.13	536.77	536.81
⌒ S. Brg. Pier 2	205+04.75	52.27	537.02	537.02
⌒ Pier 2	205+05.74	52.38	537.04	537.04
⌒ N. Brg. Pier 2	205+06.73	52.49	537.06	537.06
L	205+16.60	53.56	537.26	537.28
M	205+26.47	54.66	537.47	537.50
N	205+36.33	55.34	537.68	537.72
O	205+46.17	55.21	537.91	537.94
P	205+56.02	55.12	538.14	538.15
⌒ Brg. North Abut.	205+63.15	55.06	538.31	538.31
Bk. of North Abut.	205+65.08	55.05	538.36	538.36

NOTES:

1. All Elevations and Offsets are in feet.
2. Offsets are measured with respect to the PGL.
Negative offsets are left and positive are right of the PGL.

MODEL: Default
FILE NAME: 0998306-62F94-5017-SE06.dgn



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

USER NAME	= lauxpj
PLOT SCALE	= 0:1.9999 " = 1' / in.
PLOT DATE	= 12/2/2025

DESIGNED	-	NBR
CHECKED	-	PJL
DRAWN	-	NBR
CHECKED	-	PJL

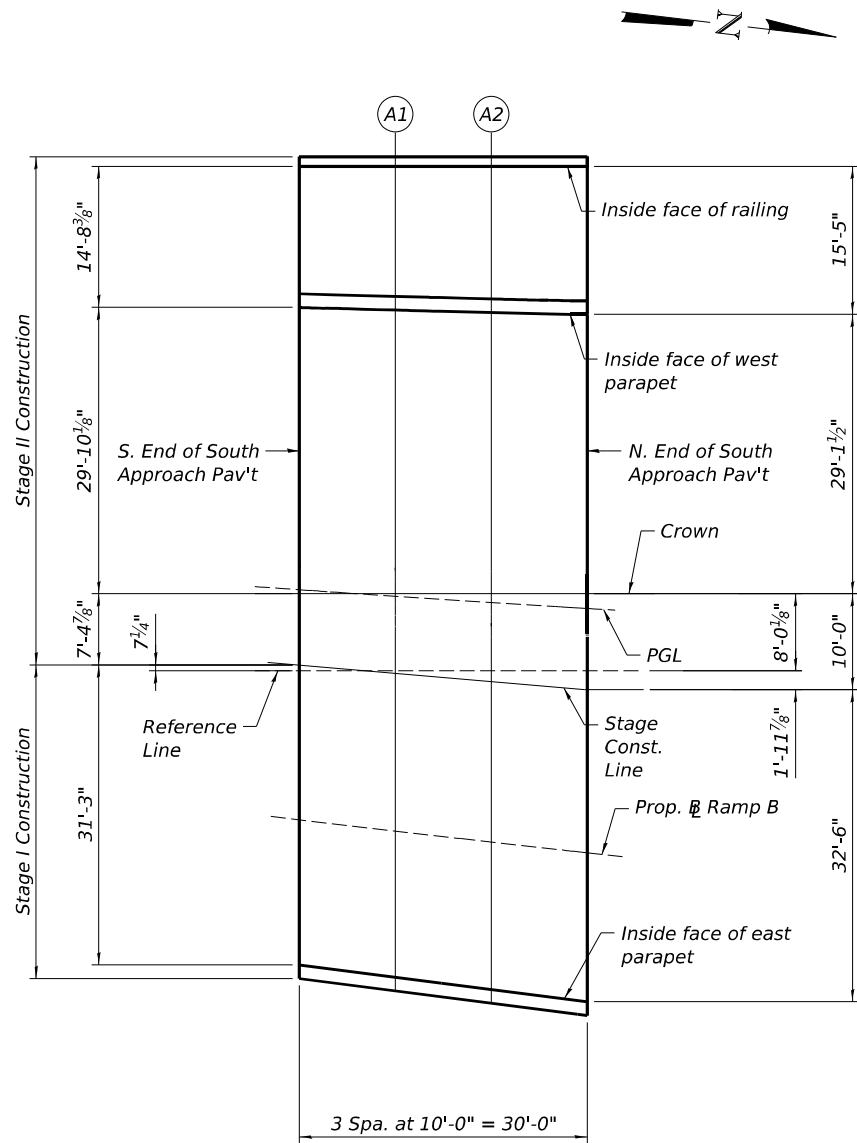
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REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS 5
STRUCTURE NUMBER 099-8306

SHEET SC-17 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	846
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	



PLAN
(South Approach)

INSIDE FACE OF RAILING

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	203+39.05	-44.00	533.50
A1	203+49.15	-44.69	533.73
A2	203+59.26	-45.35	533.97
N. End South Appr. Pav't.	203+69.37	-45.98	534.21

CROWN

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	203+42.18	0.44	534.39
A1	203+52.16	-0.24	534.62
A2	203+62.14	-0.90	534.86
N. End South Appr. Pav't.	203+72.12	-1.52	535.10

REFERENCE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	203+42.74	8.42	534.23
A1	203+52.69	7.75	534.46
A2	203+62.65	7.10	534.70
N. End South Appr. Pav't.	203+72.61	6.47	534.94

PROP. B RAMP B

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	203+43.80	23.93	533.92
A1	203+53.79	24.43	534.12
A2	203+63.77	24.92	534.34
N. End South Appr. Pav't.	203+73.75	25.40	534.56

INSIDE FACE OF WEST PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	203+40.09	-29.34	533.80
A1	203+50.17	-29.75	534.03
A2	203+60.25	-30.16	534.27
N. End South Appr. Pav't.	203+70.33	-30.59	534.52

PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	203+42.15	0.00	534.38
A1	203+52.17	0.00	534.61
A2	203+62.19	0.00	534.84
N. End South Appr. Pav't.	203+72.21	0.00	535.07

STAGE CONSTRUCTION LINE

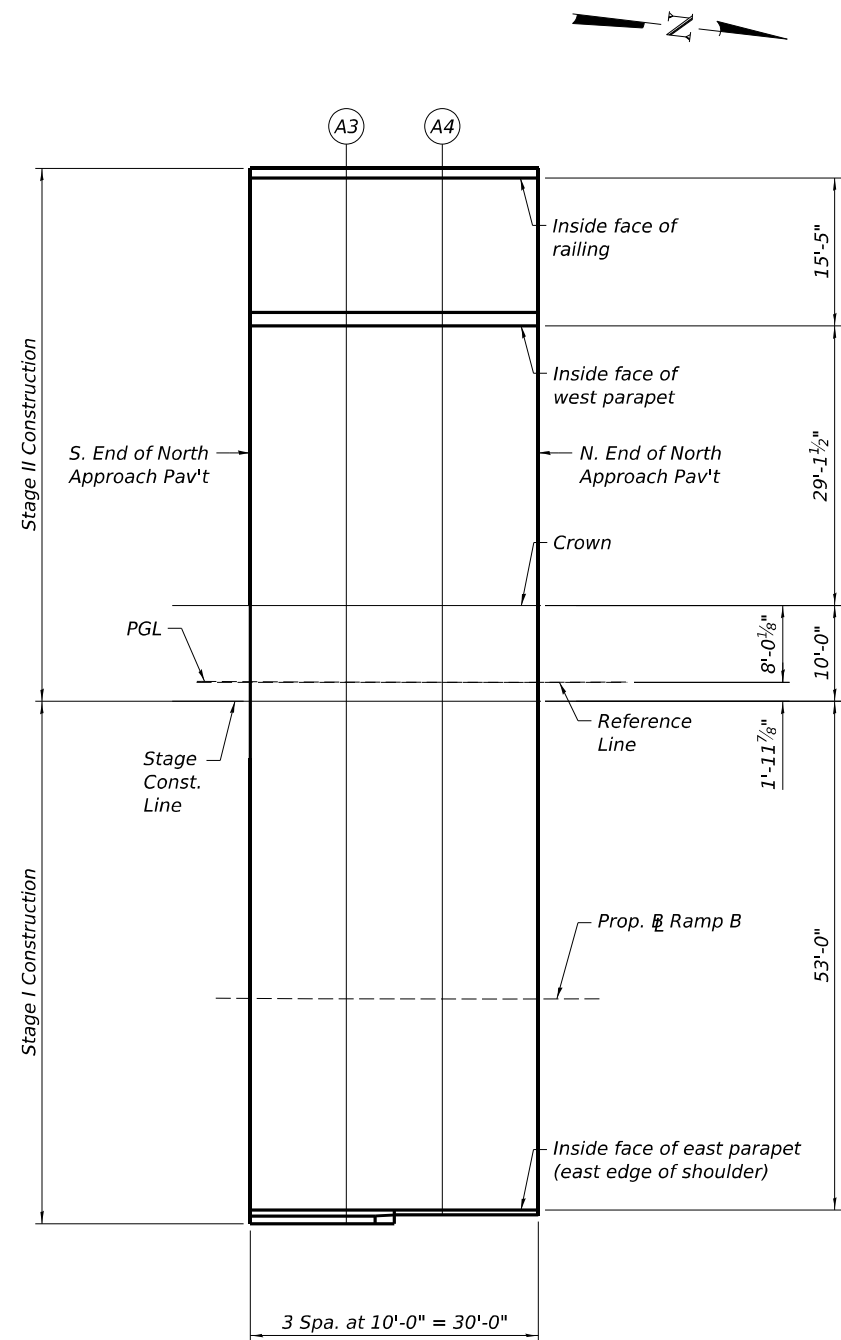
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	203+42.69	7.82	534.24
A1	203+52.71	8.01	534.45
A2	203+62.72	8.24	534.68
N. End South Appr. Pav't.	203+72.73	8.46	534.90

INSIDE FACE OF EAST PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pav't.	203+44.83	39.00	533.62
A1	203+54.79	39.61	533.82
A2	203+64.73	40.24	534.03
N. End South Appr. Pav't.	203+74.68	40.91	534.25

NOTES:

- All Elevations and Offsets are in feet.
- Offsets are measured with respect to the PGL. Negative offsets are left and positive are right of the PGL.



PLAN
(North Approach)

INSIDE FACE OF RAILING

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	205+63.43	-52.48	538.70
A3	205+73.59	-52.53	538.93
A4	205+83.74	-52.55	539.16
N. End North Appr. Pav't.	205+93.89	-52.54	539.39

CROWN

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	205+63.71	-7.94	539.59
A3	205+73.74	-7.99	539.82
A4	205+83.76	-8.01	540.05
N. End North Appr. Pav't.	205+93.78	-8.00	540.28

REFERENCE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	205+63.76	0.07	539.43
A3	205+73.76	0.02	539.66
A4	205+83.76	0.00	539.89
N. End North Appr. Pav't.	205+93.76	0.01	540.12

PROP. $\frac{1}{2}$ RAMP B

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	205+63.96	33.00	538.78
A3	205+73.87	33.00	539.00
A4	205+83.78	33.00	539.23
N. End North Appr. Pav't.	205+93.68	33.00	539.46

INSIDE FACE OF WEST PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	205+63.53	-37.07	539.01
A3	205+73.64	-37.11	539.24
A4	205+83.75	-37.13	539.47
N. End North Appr. Pav't.	205+93.85	-37.12	539.70

PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	205+63.76	0.00	539.44
A3	205+73.76	0.00	539.66
A4	205+83.76	0.00	539.89
N. End North Appr. Pav't.	205+93.76	0.00	540.12

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	205+63.78	2.06	539.39
A3	205+73.77	2.01	539.62
A4	205+83.76	1.99	539.85
N. End North Appr. Pav't.	205+93.76	2.00	540.08

INSIDE FACE OF EAST PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pav't.	205+64.10	55.06	538.33
A3	205+73.94	55.01	538.56
A4	205+83.79	54.99	538.79
N. End North Appr. Pav't.	205+93.63	55.00	539.02

NOTES:

- All Elevations and Offsets are in feet.
- Offsets are measured with respect to the PGL. Negative offsets are left and positive are right of the PGL.

MODEL: Default
FILE NAME: 0998306-62F94-5019-TAE02.dgn



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

USER NAME	= lauxp
PLOT SCALE	= 0:1.9999 " = 1' / in.
PLOT DATE	= 12/2/2025

DESIGNED	- MAI
CHECKED	- PJL
DRAWN	- MAI
CHECKED	- PJL

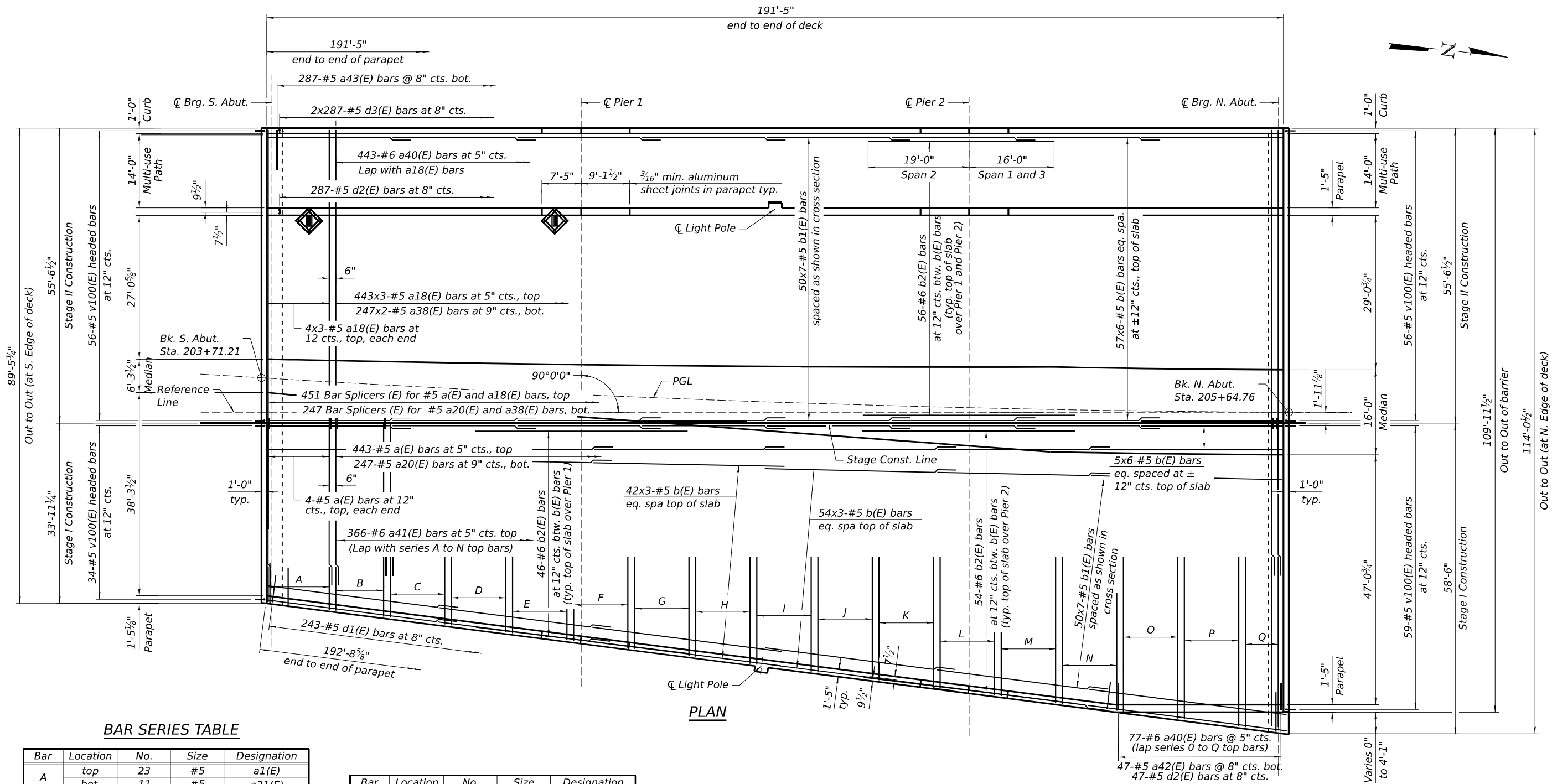
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NUMBER 099-8306

SHEET SC-19 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	848
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



PLAN

BAR SERIES TABLE

Bar	Location	No.	Size	Designation
A	top	23	#5	a1(E)
	bot.	11	#5	a21(E)
B	top	27	#5	a2(E)
	bot.	15	#5	a22(E)
C	top	27	#5	a3(E)
	bot.	15	#5	a23(E)
D	top	27	#5	a4(E)
	bot.	15	#5	a24(E)
E	top	27	#5	a5(E)
	bot.	15	#5	a25(E)
F	top	27	#5	a6(E)
	bot.	15	#5	a26(E)
G	top	27	#5	a7(E)
	bot.	15	#5	a27(E)
H	top	27	#5	a8(E)
	bot.	15	#5	a28(E)
I	top	27	#5	a9(E)
	bot.	15	#5	a29(E)

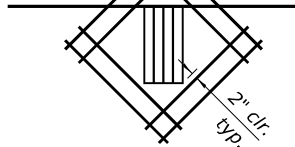
Bar	Location	No.	Size	Designation
J	top	27	#5	a10(E)
	bot.	15	#5	a30(E)
K	top	27	#5	a11(E)
	bot.	15	#5	a31(E)
L	top	27	#5	a12(E)
	bot.	15	#5	a32(E)
M	top	27	#5	a13(E)
	bot.	15	#5	a33(E)
N	top	27	#5	a14(E)
	bot.	15	#5	a34(E)
O	top	27	#5	a15(E)
	bot.	15	#5	a35(E)
P	top	27	#5	a16(E)
	bot.	15	#5	a36(E)
Q	top	23	#5	a17(E)
	bot.	11	#5	a37(E)

MINIMUM BAR LAP
#5 bar = 3'-6"

NOTES:

- See sheet SC-23 & SC-24 for superstructure details and Bill of Material.
- Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
- Space series A to Q as shown in plans. Lap top bars with a(E) bars, and bottom bars with a20(E) bars.

2-#5 a50(E) bars at 4" tied to bottom of top reinforcement mat. typ. (2-DS-12 Scuppers)



TYPICAL PLAN AT SCUPPERS

Cut longitudinal reinforcement to clear drainage scuppers

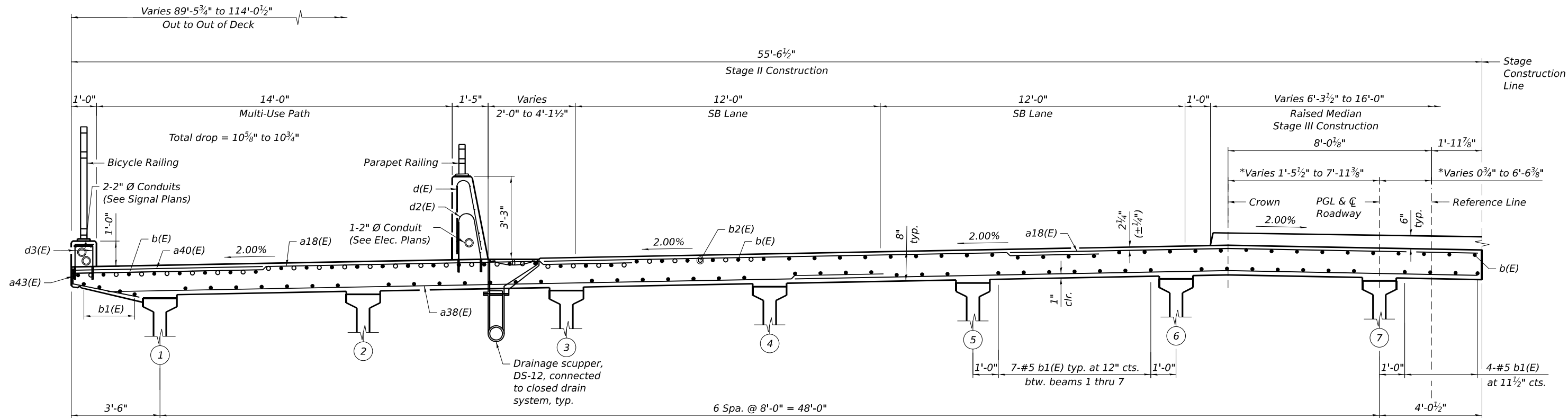
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN
STRUCTURE NUMBER 099-8306

SHEET SC-20 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	849
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

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PLOT SCALE = 0:1.9999 " = 1 in.	CHECKED - LAS	REVISED -
PLOT DATE = 12/2/2025	DRAWN - KA	REVISED -
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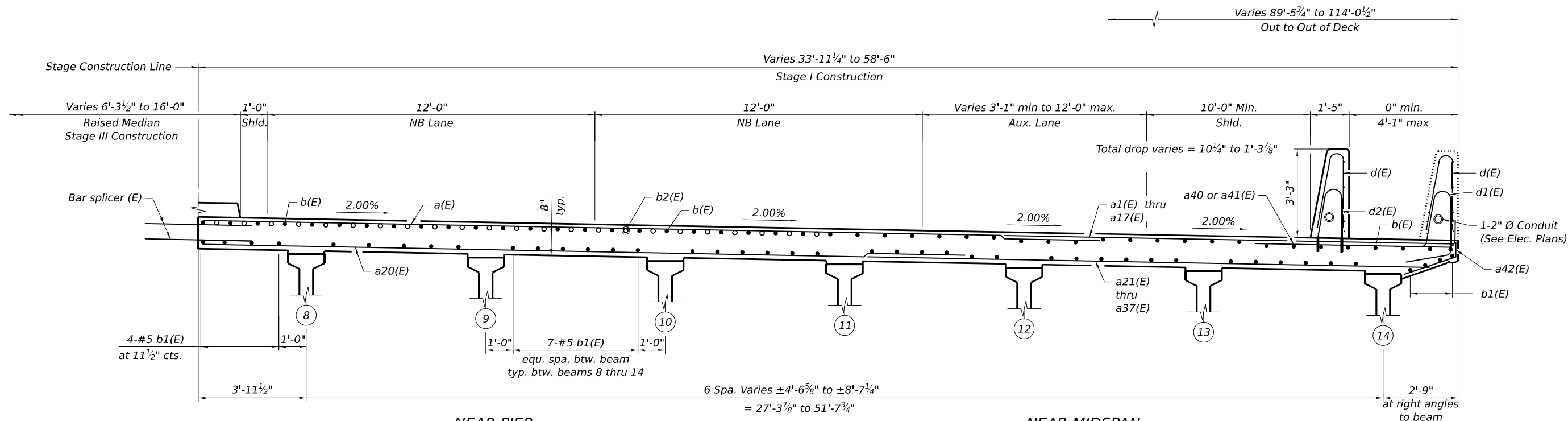


NEAR PIER

CROSS SECTION
(Looking North)

NEAR MIDSPAN

* Measured perpendicular to PGL



NEAR PIER

CROSS SECTION
(Looking North)

NEAR MIDSPAN

NOTES:

- See sheet SC-22 for median rebar and railing details.
- Dimensions measured perpendicular to Reference Line.

MODEL: Default
FILE NAME: 0908306-62F94-5021-CHK02.dgn



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USER NAME = lauxj
DESIGNED - KA
CHECKED - LAS
PLOT SCALE = 3:11.9981 " = 1" / in.
DRAWN - KA
PLOT DATE = 12/2/2025

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CHECKED - LAS
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CHECKED - LAS

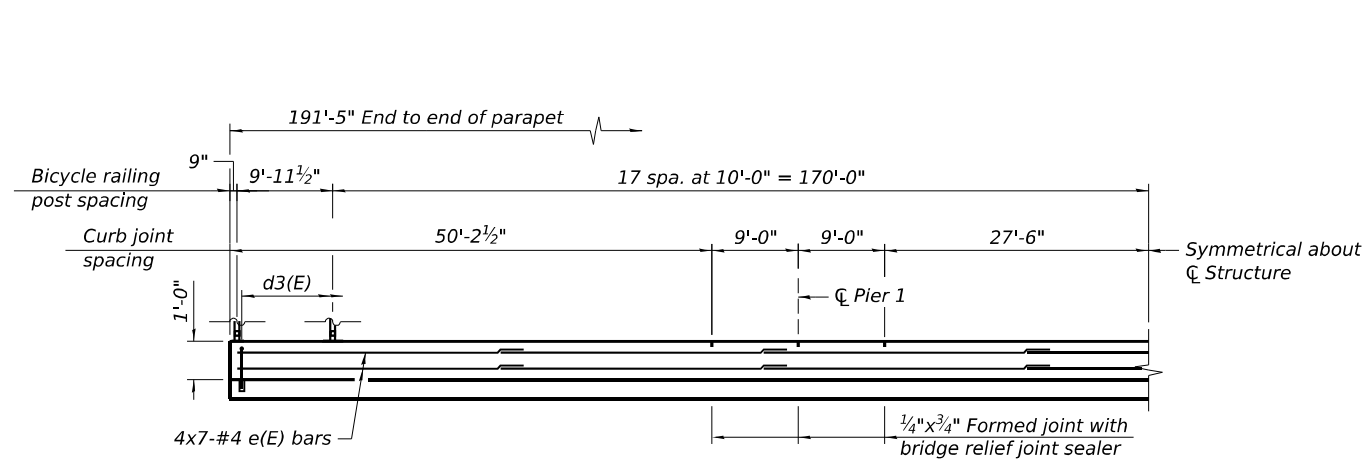
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

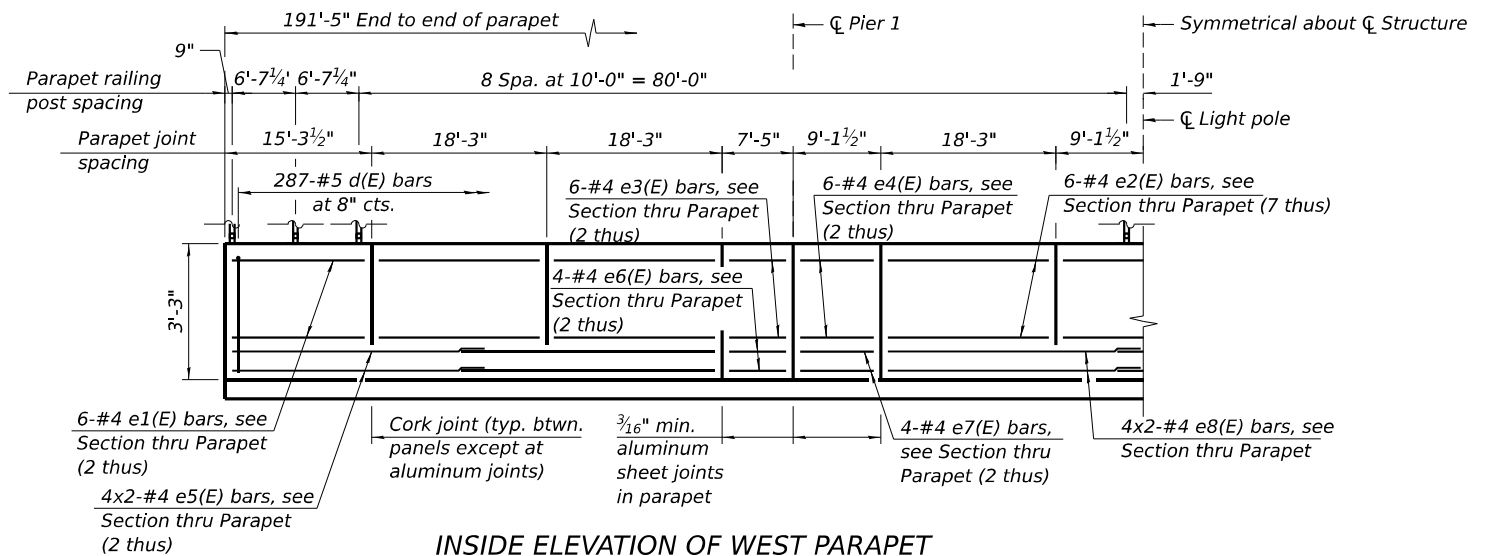
DECK CROSS SECTION
STRUCTURE NUMBER 099-8306

SHEET SC-21 OF SC-60 SHEETS

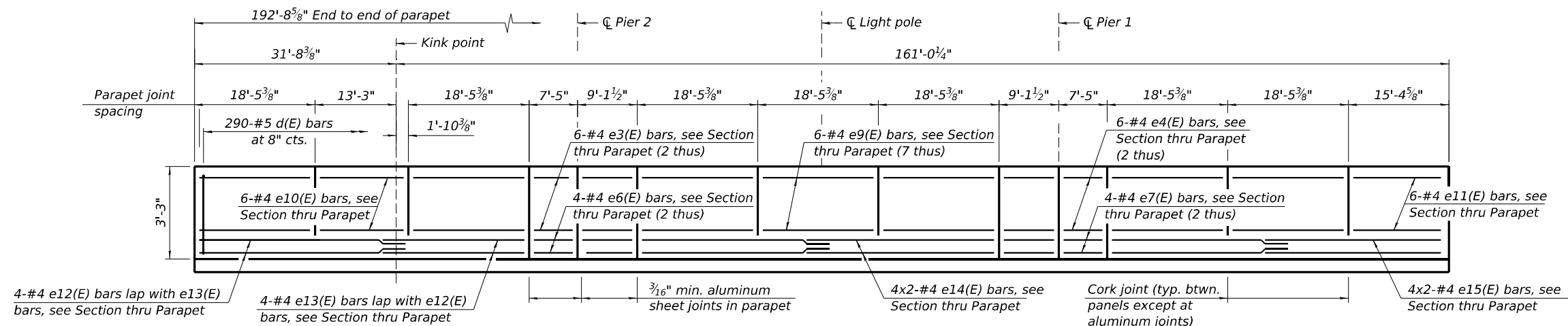
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	850
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF WEST CURB
(Looking west)

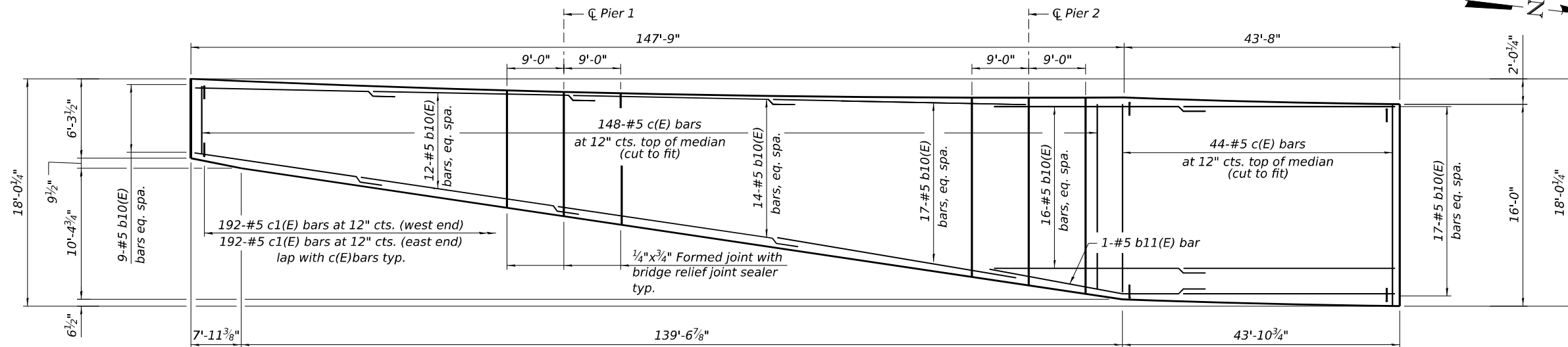


INSIDE ELEVATION OF WEST PARAPET
(Looking west)



INSIDE ELEVATION OF EAST PARAPET
(Looking east)

MINIMUM BAR LAP
#4 bar = 2'-5"
#5 bar = 3'-6"



MEDIAN PLAN

NOTES:

- For median geometry, see sheet SC-3 and SC-20.
- b10(E) bars at curb to be furnished straight and sprung into place to fit in span 3.
- Bars indicated thus 1 x 2-#4 etc. indicates 1 line bars with 2 lengths per line.

MODEL: Default
FILE NAME: 0908306-62F94-5022-CHEK03.dgn



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FAX: (312) 782-1684

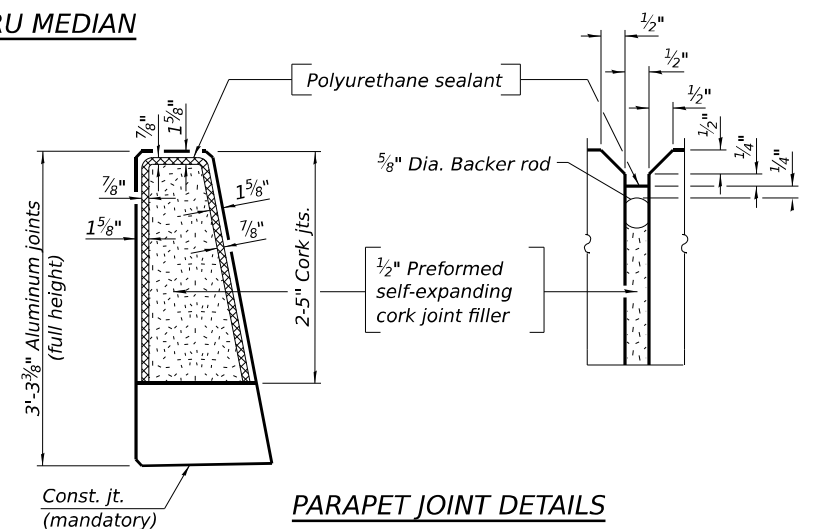
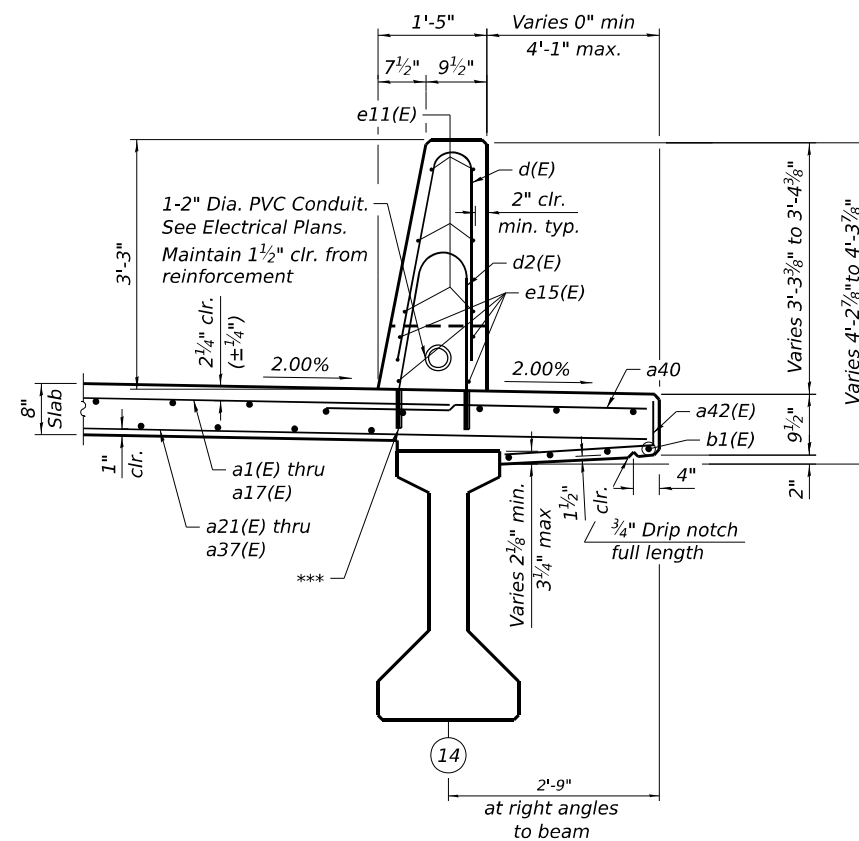
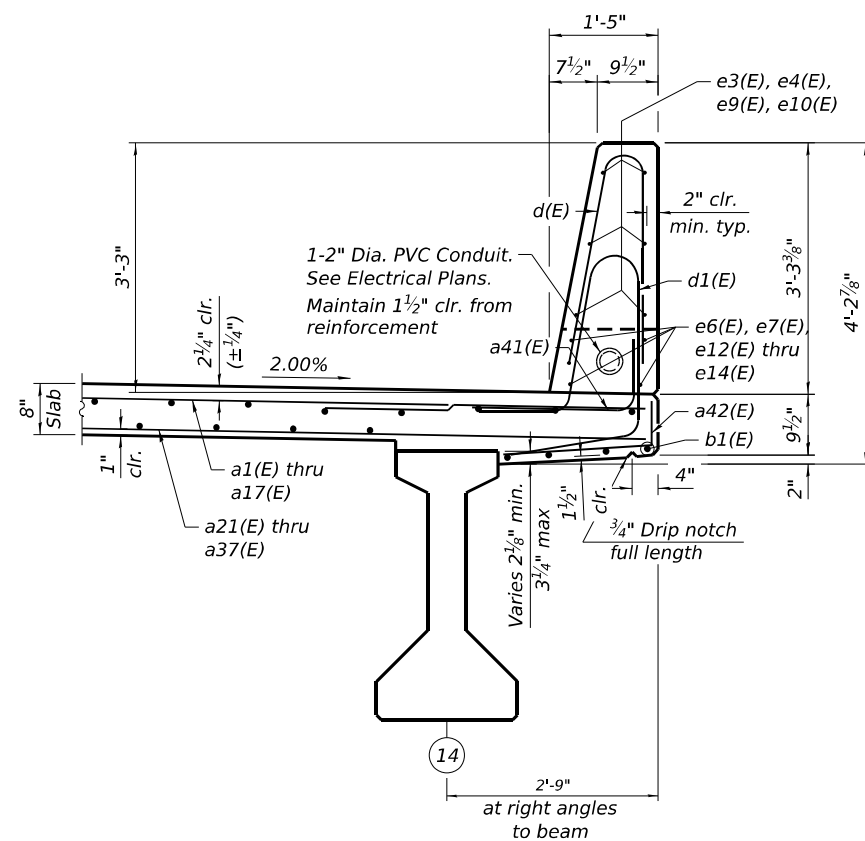
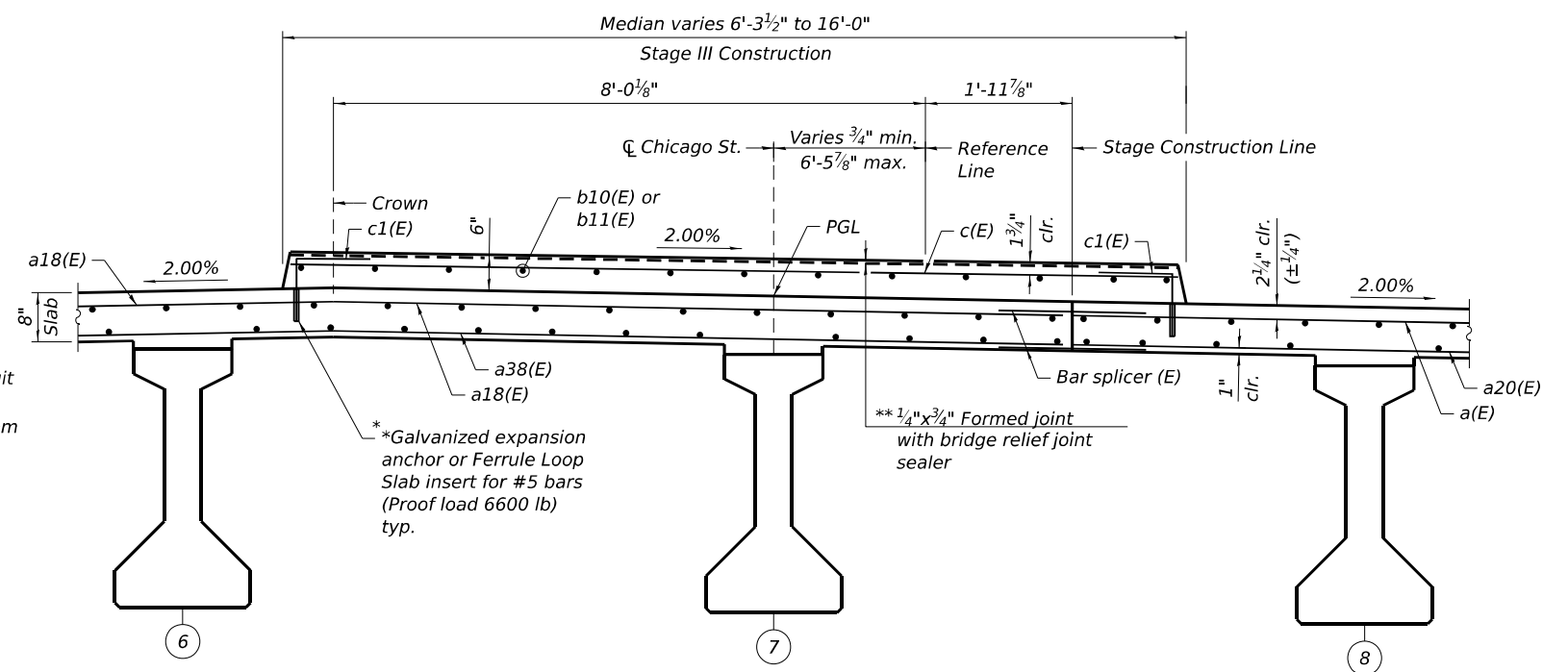
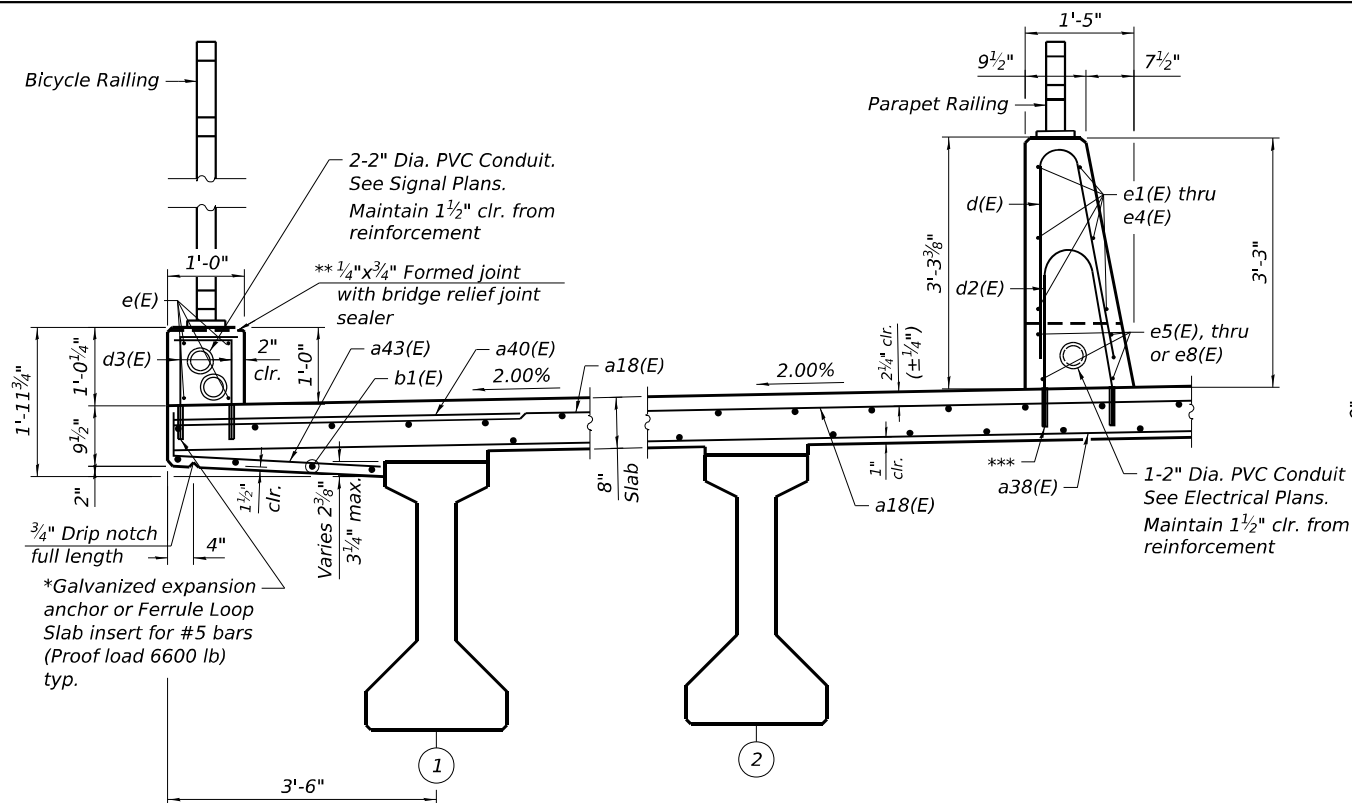
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PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARAPET AND MEDIAN DETAILS
STRUCTURE NUMBER 099-8306**

SHEET SC-22 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	851
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



NOTES:

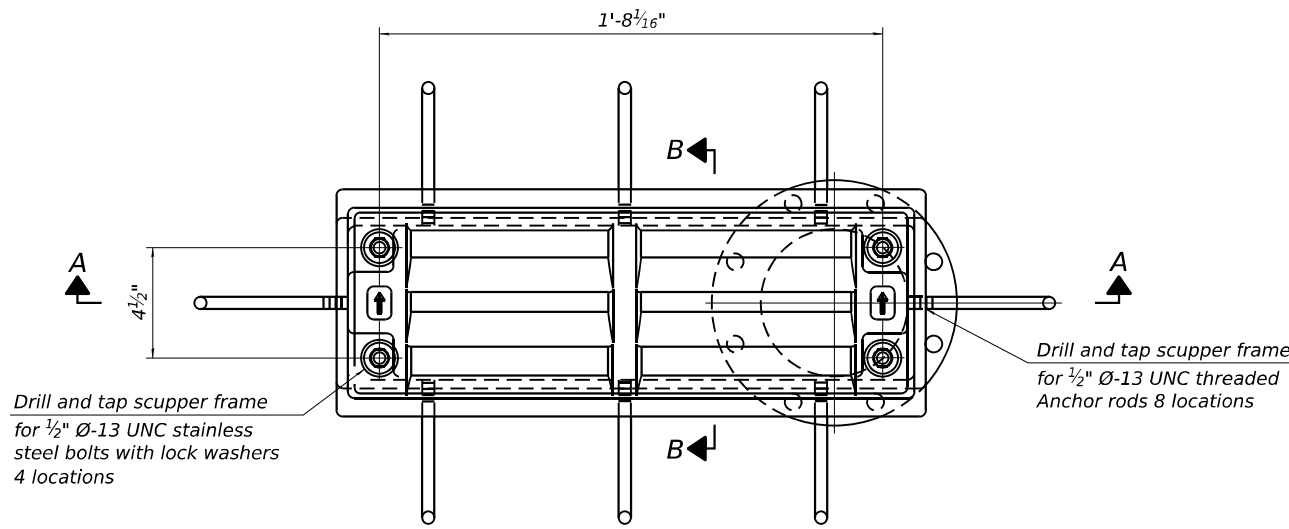
The $\frac{3}{16}$ " min. aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

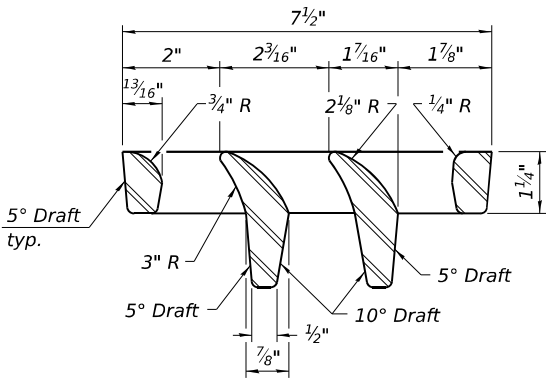
* The cost of expansion anchors / inserts is included in the cost of Reinforcement Bars, Epoxy Coated.

** Full width along joint - backer rod not required

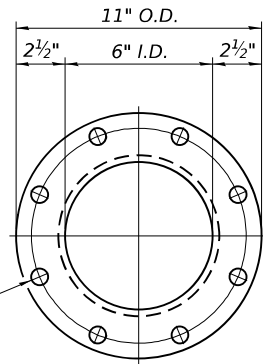
***** Drill and set #5 d1(E), #5 d3(E), and c1(E) bars according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.**



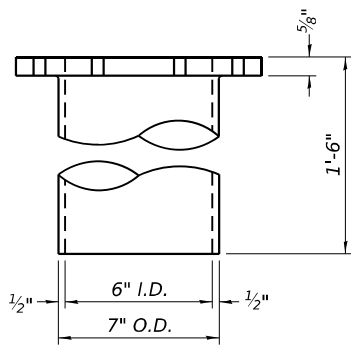
PLAN



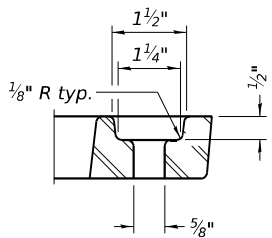
VANE GRATE DETAIL



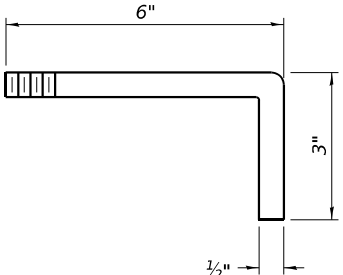
8-13/16" Ø holes on
9 1/2" Ø bolt circle



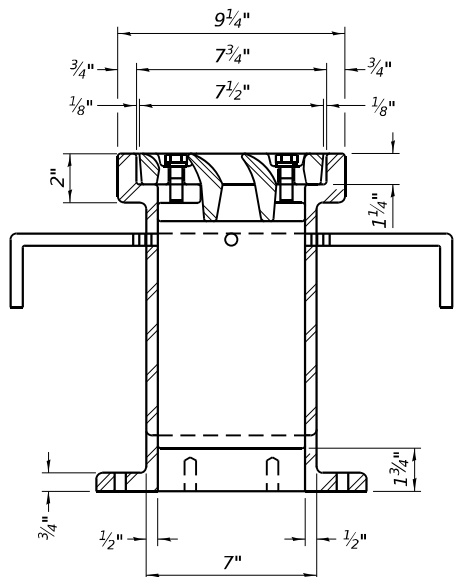
DOWNSPOUT



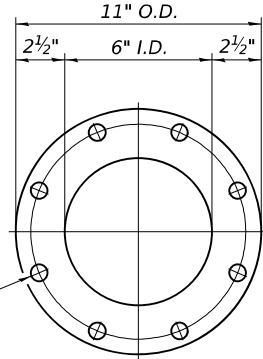
GRATE BOLT HOLE DETAIL



ANCHOR ROD DETAIL



SECTION B-B



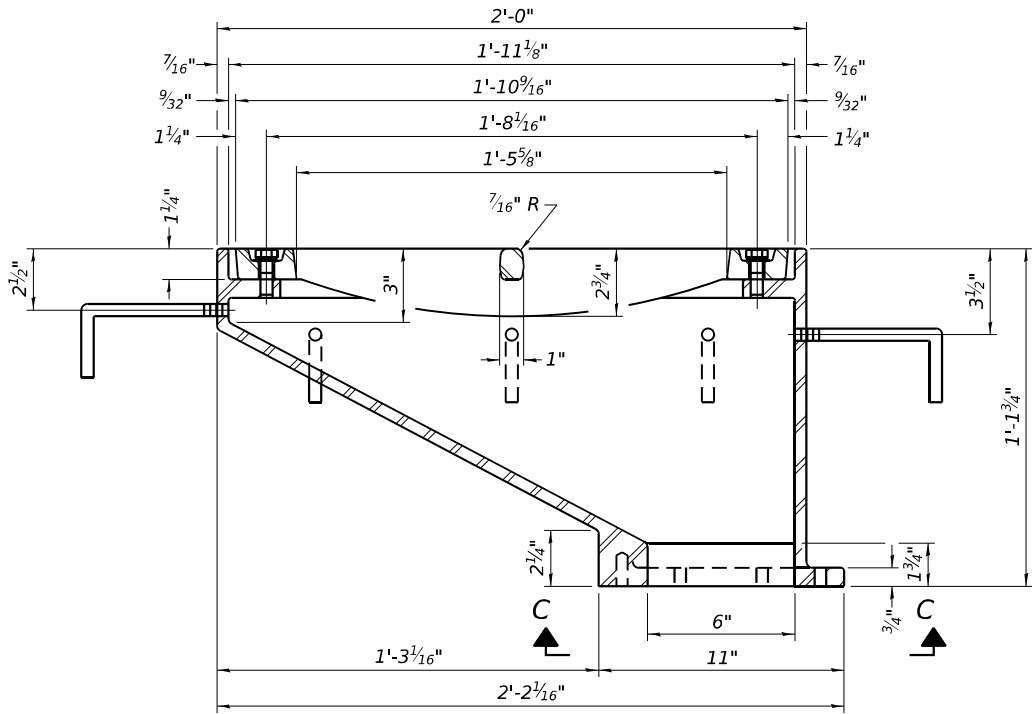
VIEW C-C

Notes:
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306. Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used. Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be pigmented or painted to match the color of the adjacent beam.
The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-12.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-12	Each	2

SECTION A-A
See sheet SC-21 for scupper location relative to parapet.



DS-12 5-15-2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-12
STRUCTURE NUMBER 099-8306

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	854
CONTRACT NO. 62F94				

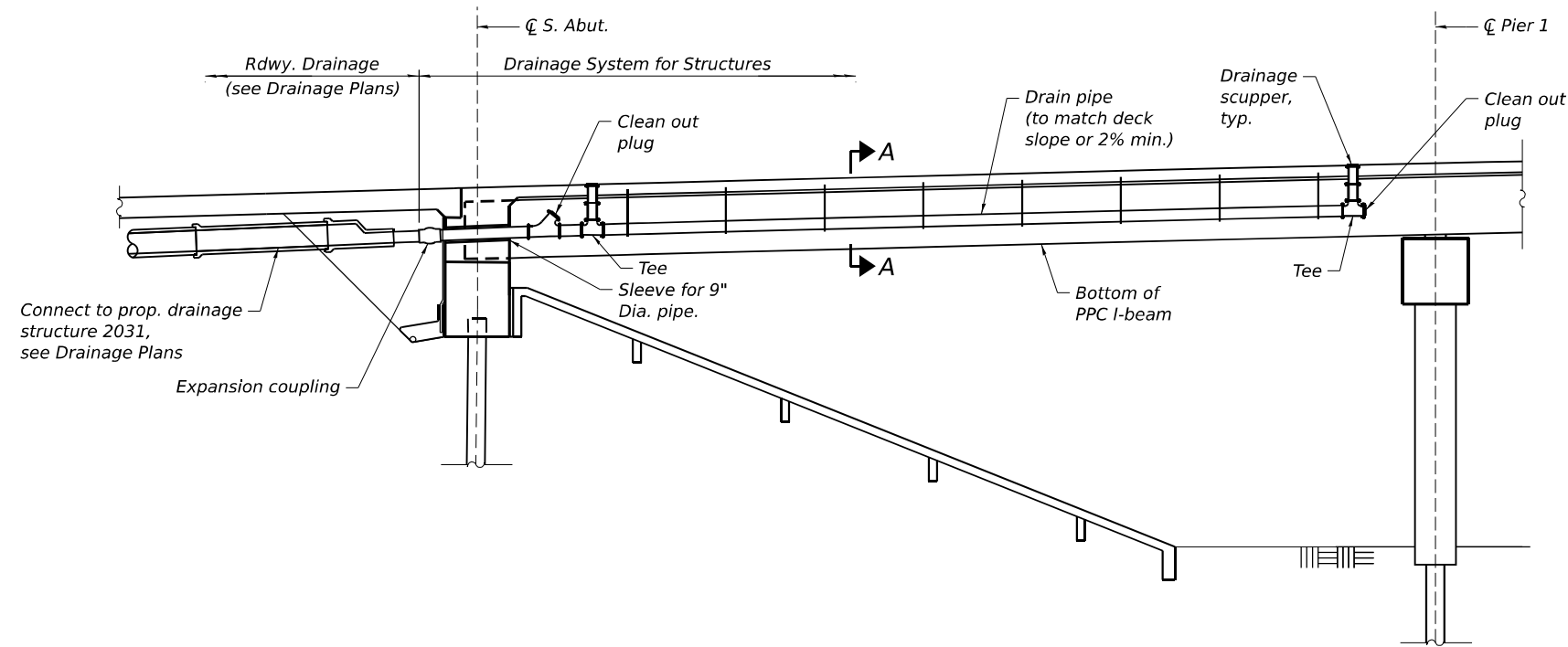
SHEET SC-25 OF SC-60 SHEETS

ILLINOIS FED. AID PROJECT

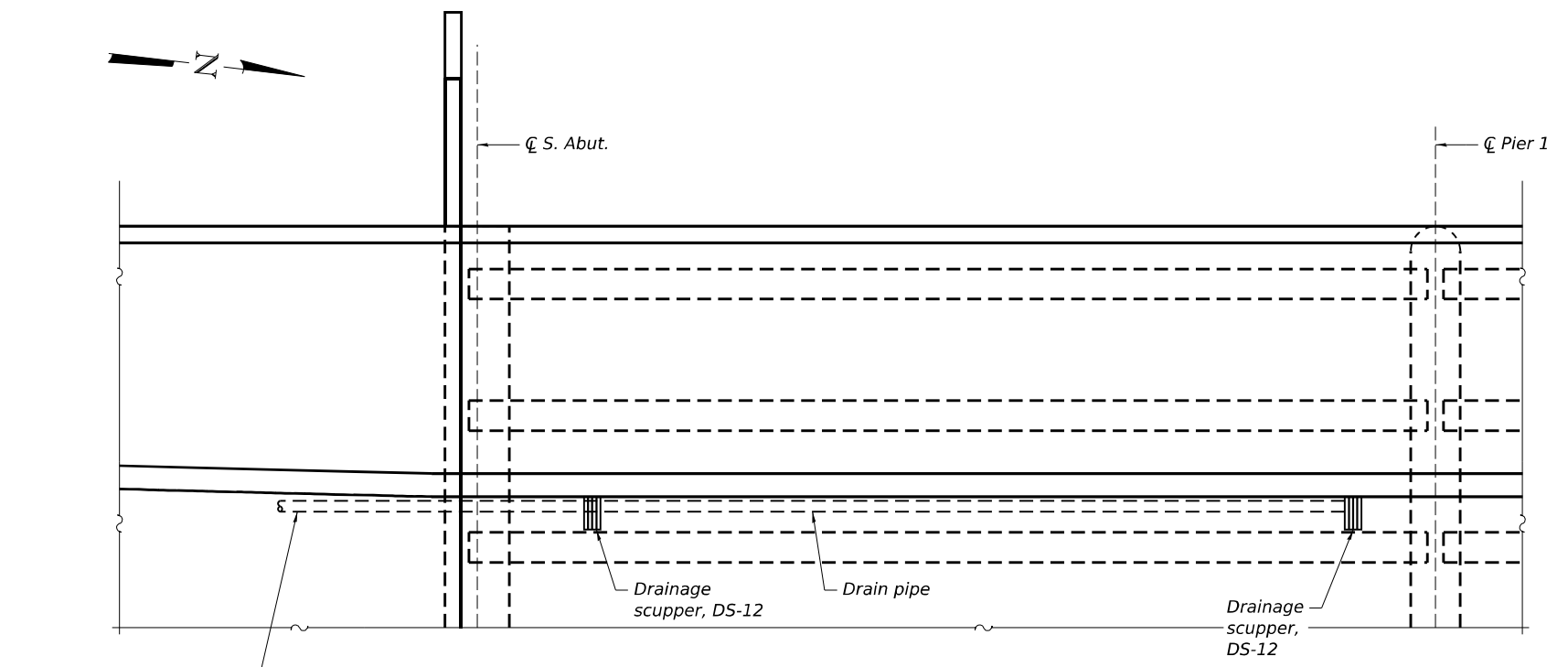
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FILE NAME: 0998306-62F94-DS12.dgn

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SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
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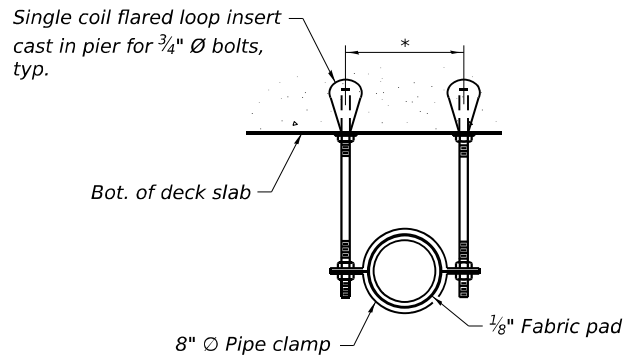
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PLOT SCALE = 0:1.9999" = 1" / in.	DRAWN - BK	REVISED -
PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -



ELEVATION



PARTIAL PLAN



SECTION A-A

*Dimension as required by pipe clamp

NOTE:

1. Provide structural support from proposed deck slab for drain pipe per manufacturer's recommendation, not to exceed 6' cts. Cost included with "Drainage System for Structures".
2. All pipes, pipe fittings and brackets needed shall be included with the cost of "Drainage System for Structures".
3. Drain pipes and fittings shall be 8" Ø.
4. Bolt pattern and size in drain pipe flange to match scupper flange.
5. Drainage system shall connect to drainage structure. See Drainage Schedule for stationing and offset of drainage structure.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drainage System for Structures	L. Sum	1

MODEL: Default
FILE NAME: 0908306-62F94-5026-DRN.dgn



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SUITE 4000
CHICAGO, IL 60602
TEL: (312) 782-8150
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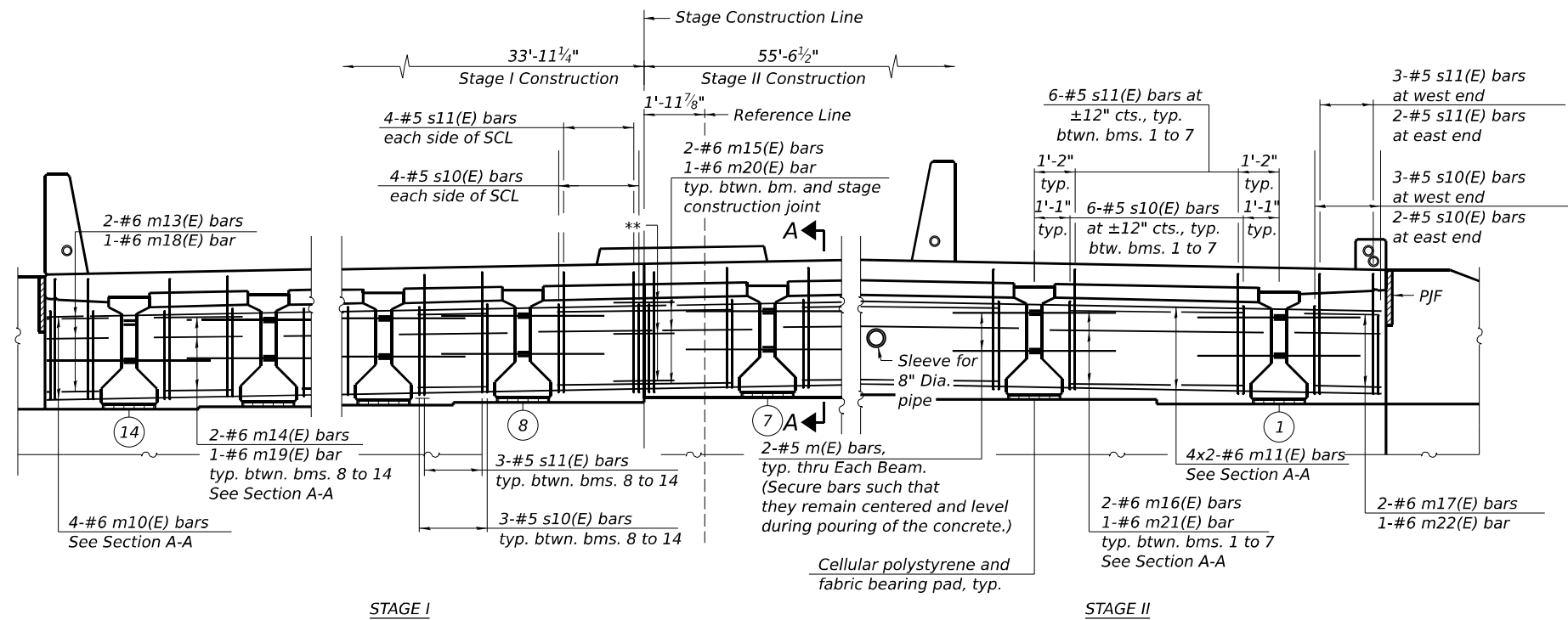
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PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -



Drainage System Details
Structure Number 099-8306

SHEET SC-26 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	855
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

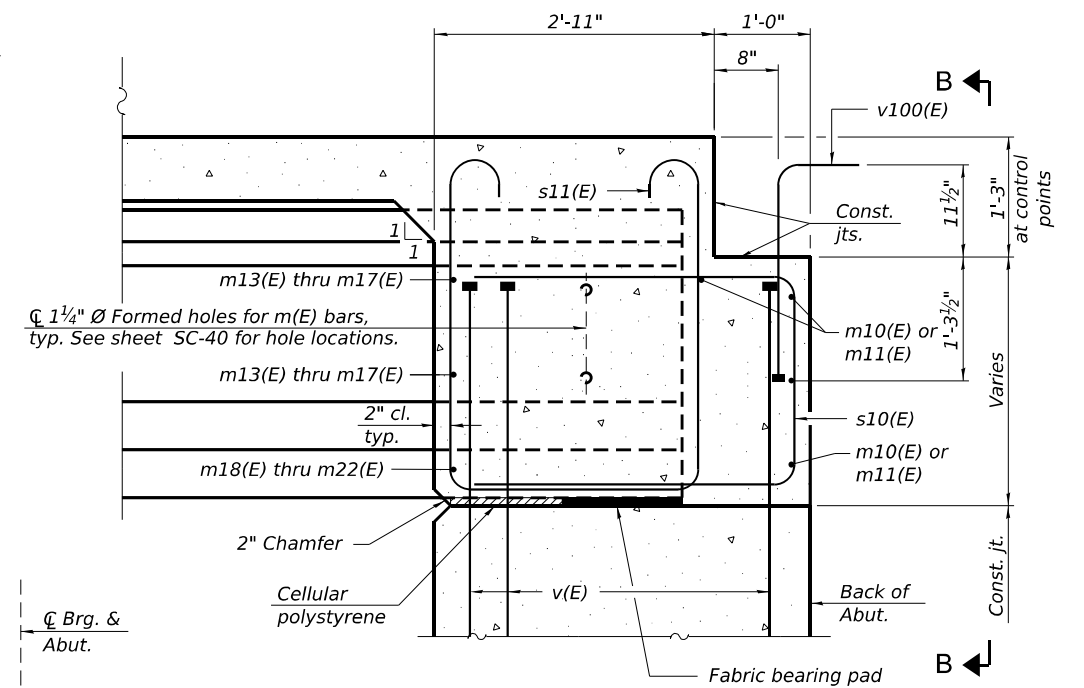


STAGE I

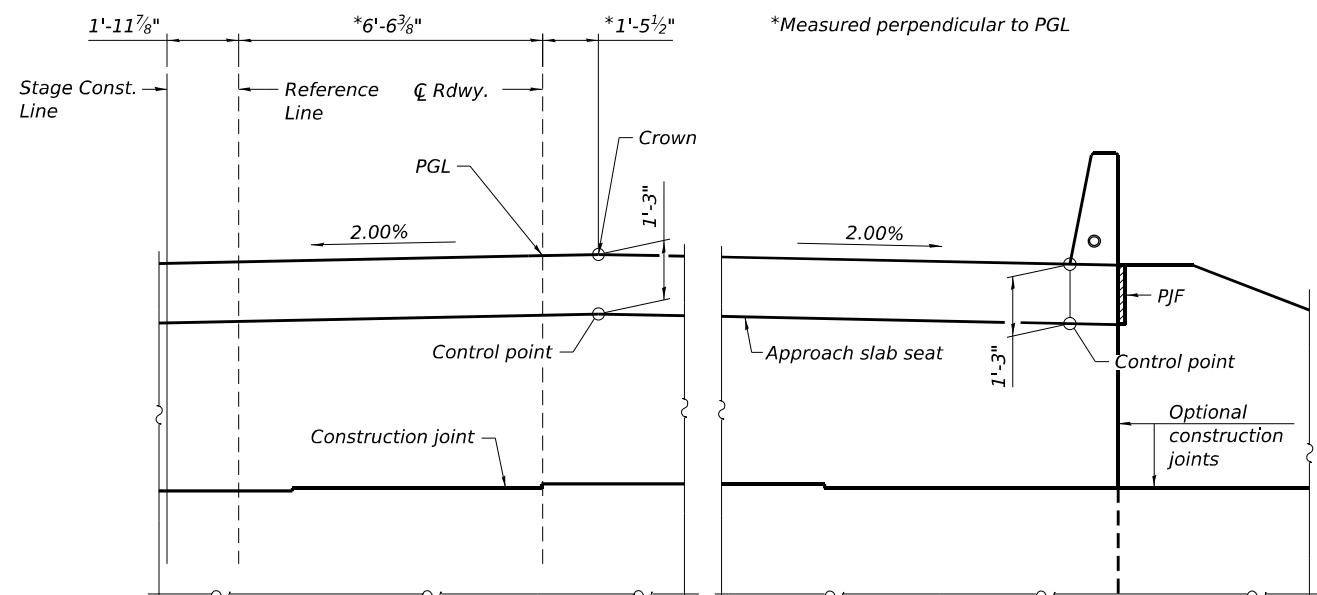
STAGE II

DIAPHRAGM AT SOUTH ABUTMENT (Looking South)

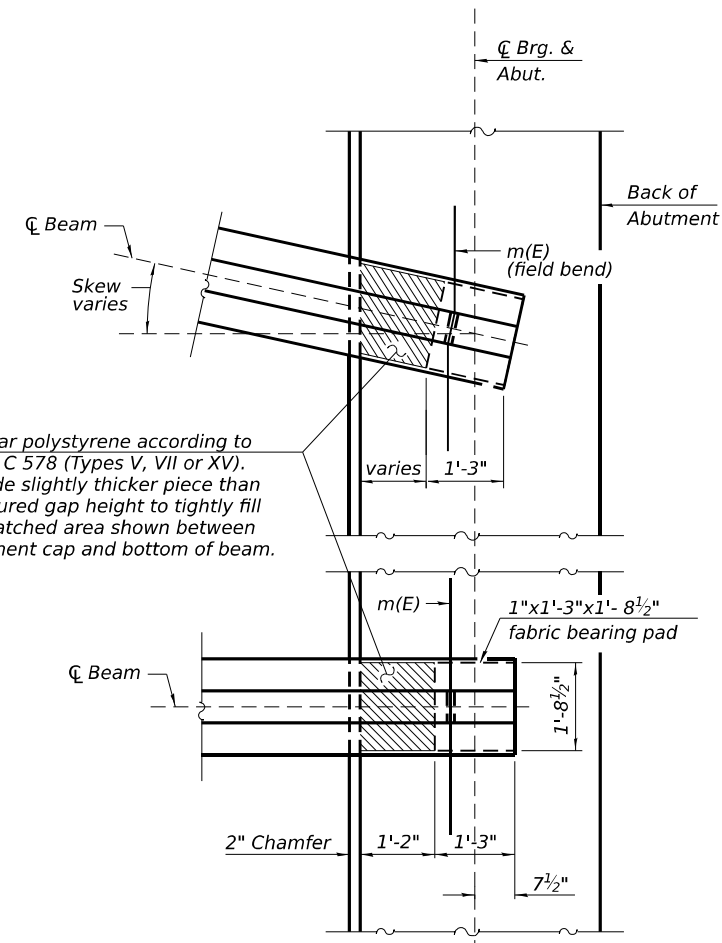
- ** 2 Bar Splicers (E) for #6 m15(E) bars
1 Bar Splicers (E) for #6 m20(E) bars
4 Bar Splicers (E) for #6 m10(E) and m11(E) bars



SECTION A-A



VIEW B-B



PLAN AT SOUTH ABUTMENT (Showing bottom flange of beam)

MINIMUM BAR LAP #6 bar = 4'-9"

NOTES:

1. See sheet SC-23 for PJF details.
2. See sheet SC-24 for Superstructure details and Bill of Material.
3. The approach slab seat shall have a constant slope determined from the control points shown.
4. Cost of cellular polystyrene is included with Concrete Superstructure.

MODEL: Default
FILE NAME: 0908306-62F94-S027-DM01.dgn



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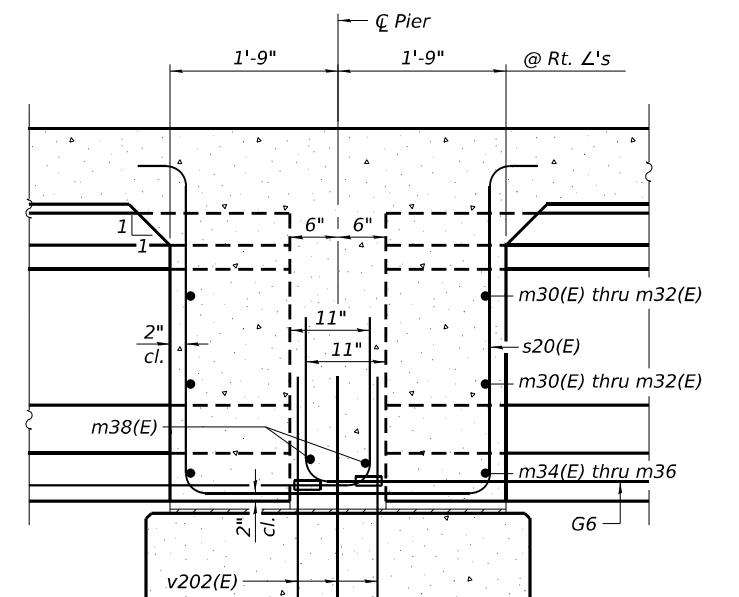
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PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM - SOUTH ABUTMENT
STRUCTURE NUMBER 099-8306

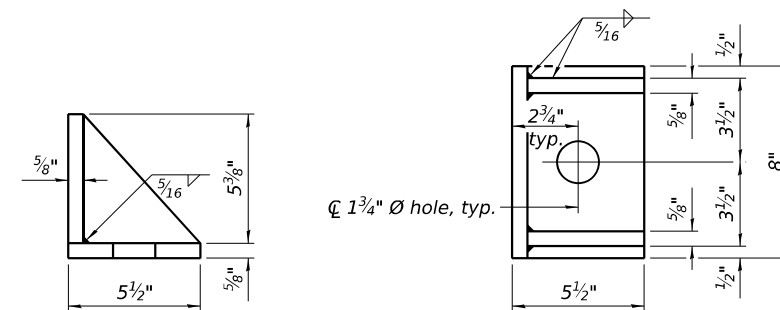
SHEET SC-27 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	856
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

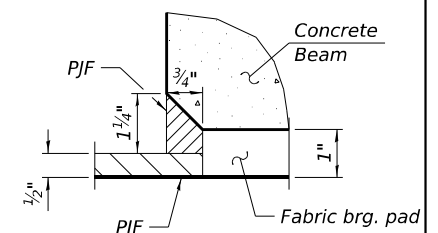


STAGE I

** 4 Bar Splicers (E) for #6 m31(E) bars
2 Bar Splicers (E) for #6 m35(E) bars

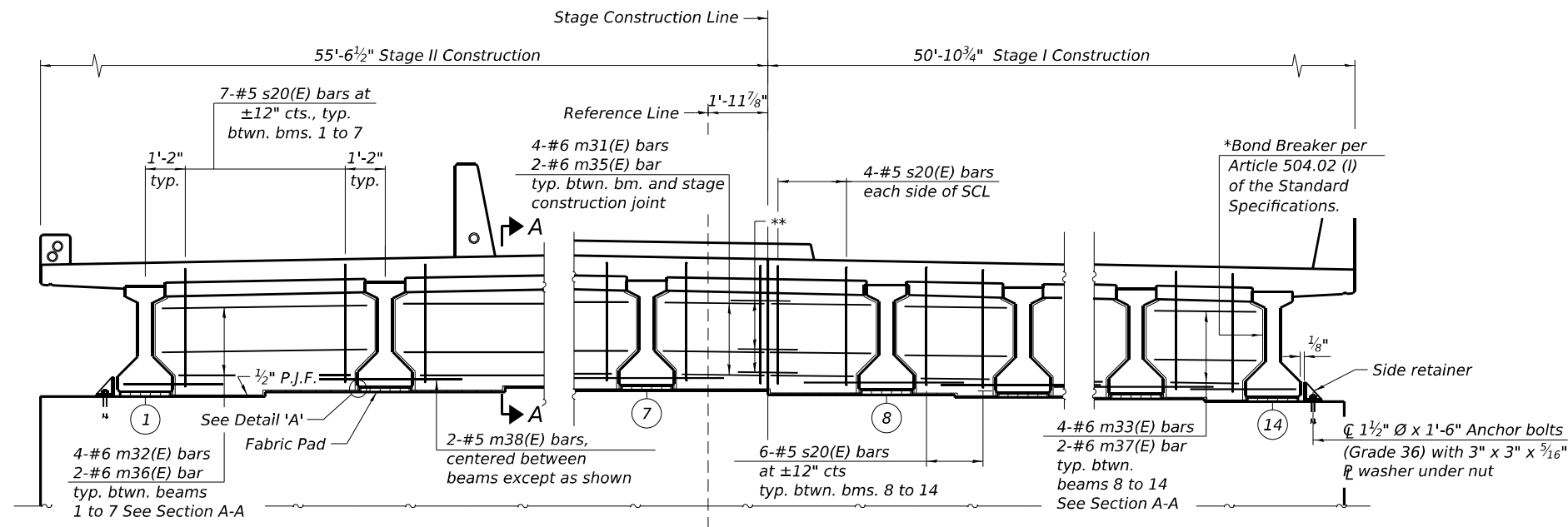


Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



DETAIL 'A'

Notes:
See sheet SC-24 for Bill of Material.
Cost of side retainer and anchor bolts shall be included with Concrete Structures.
The s20(E) bars shall be placed parallel to the beams.
Spacing for these bars shall be at right angles to the beams.
Anchor bolts and side retainers shall be according to Article 521.06 of the Standard Specifications. Side retainers shall be hot dip galvanized.
Anchor bolts and side retainers shall be installed as each exterior beam is erected unless an equivalent temporary means of lateral restraint is used.



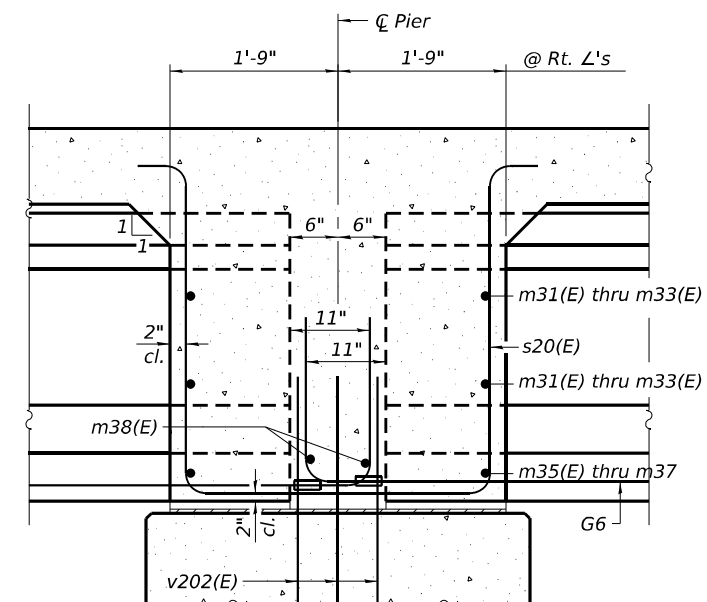
STAGE II

STAGE I

DIAPHRAGM AT PIER 2

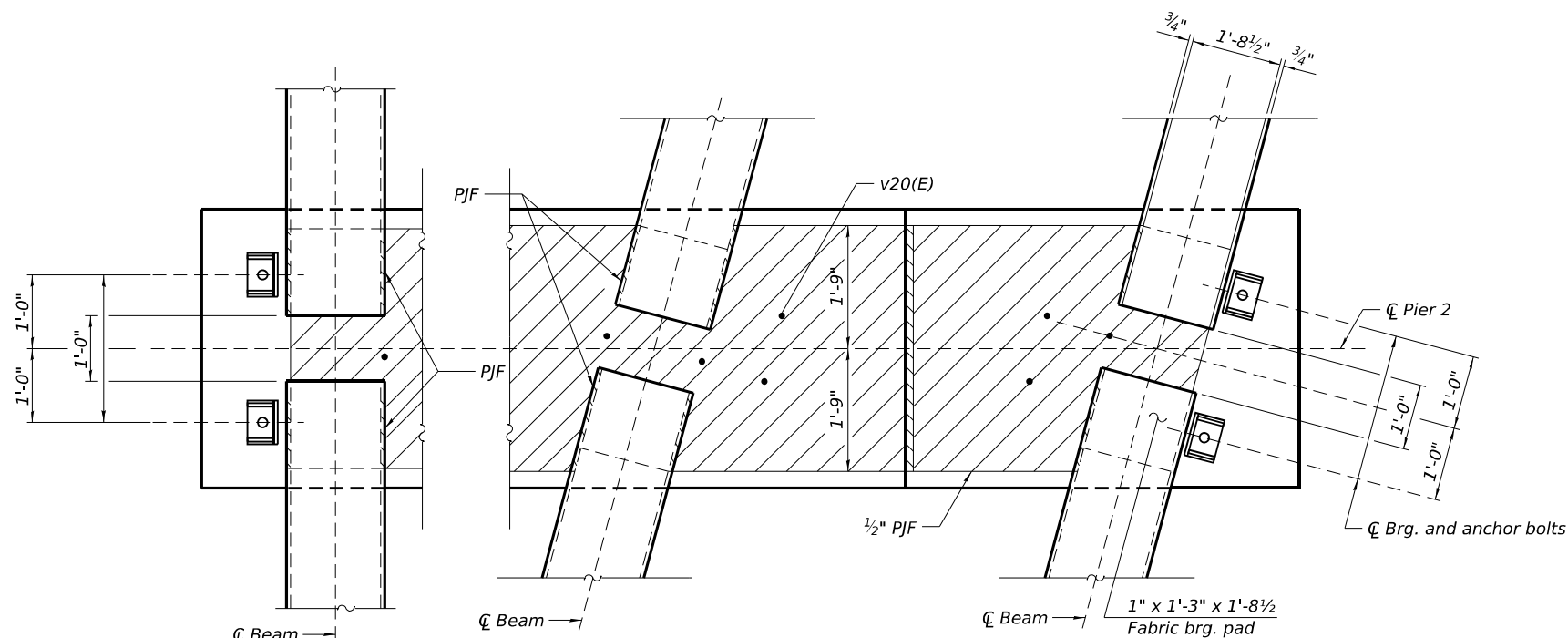
*Bonded to sides of beams embedded into diaphragm.
(Looking North)

** 4 Bar Splicers (E) for #6 m31(E) bars
2 Bar Splicers (E) for #6 m35(E) bars



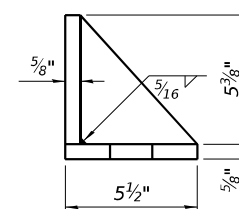
SECTION A-A

(Dimensions along $\mathcal{C}$ of beam except as shown)



PLAN AT PIER 2

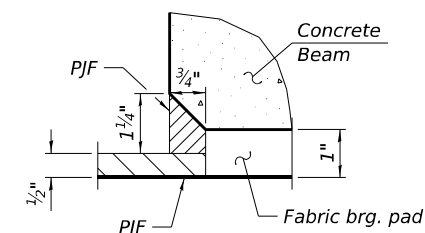
(Showing bearing pads and P.J.F. details)



$\mathcal{C}$ 1 3/4" Ø hole, typ.

SIDE RETAINER

(2 required each side of pier).
Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.



DETAIL 'A'

Notes:
See sheet SC-24 for Bill of Material.
Cost of side retainer and anchor bolts shall be included with
Concrete Structures.
The s20(E) bars shall be placed parallel to the beams.
Spacing for these bars shall be at right angles to the beams.
Anchor bolts and side retainers shall be according to Article 521.06
of the Standard Specifications. Side retainers shall be hot dip
galvanized.
Anchor bolts and side retainers shall be installed as each exterior
beam is erected unless an equivalent temporary means of lateral
restraint is used.

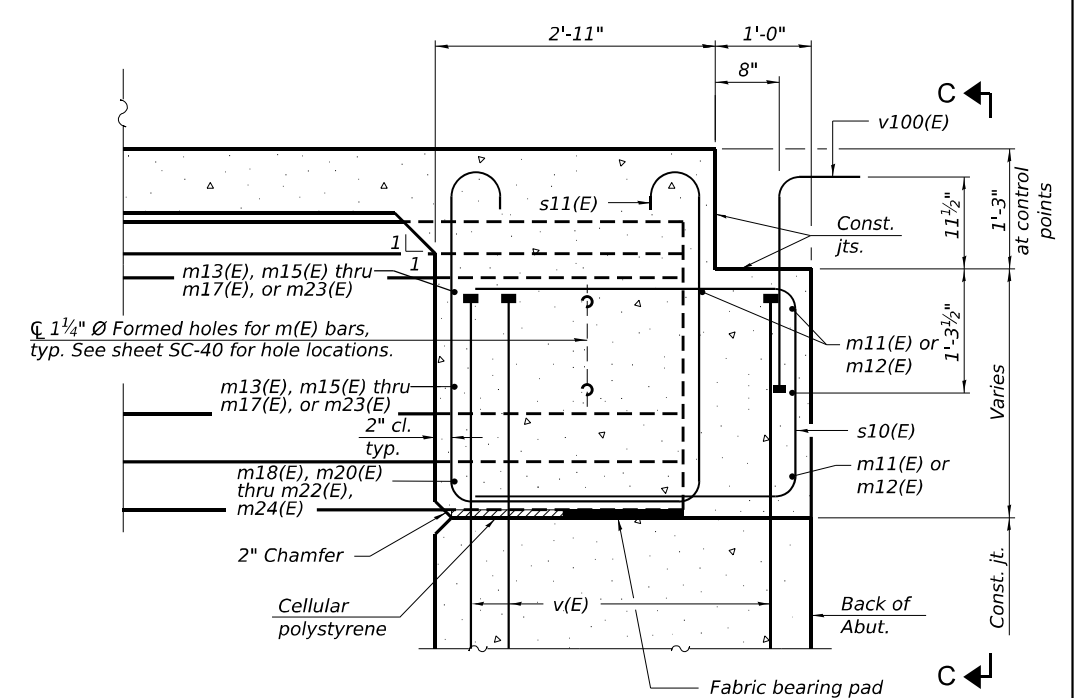
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM - PIER 2
STRUCTURE NUMBER 099-8306

SHEET SC-29 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	858
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

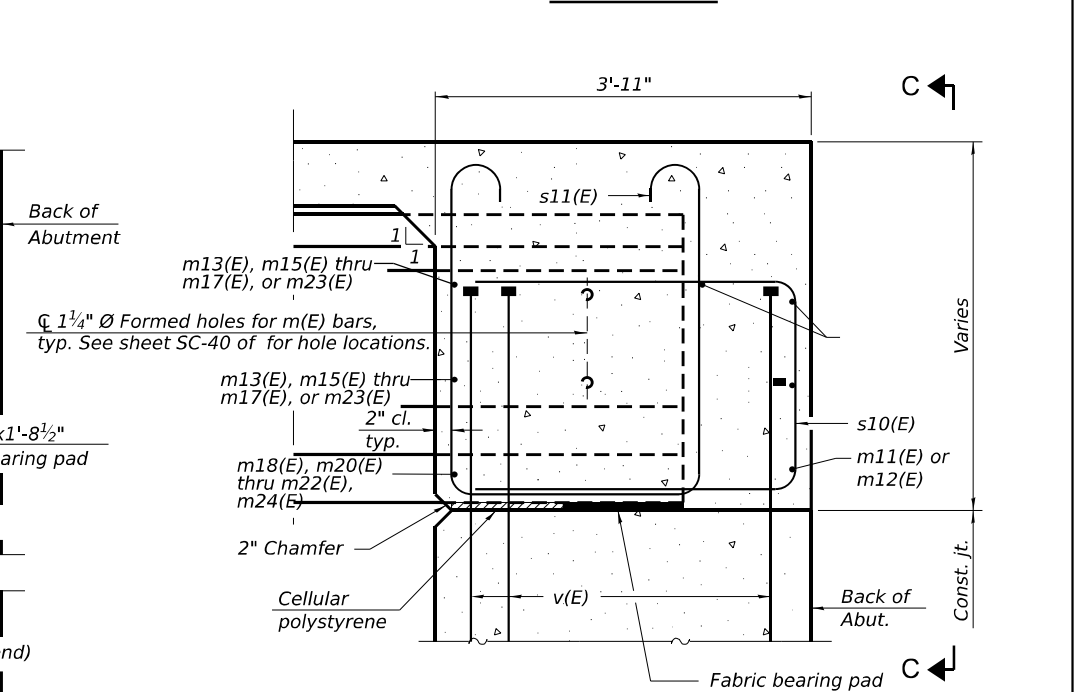
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PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -



STAGE II

STAGE I

** 2 Bar Splicer (E) for #6 m15(E) bars
1 Bar Splicer (E) for #6 m20(E) bars
4 Bar Splicers (E) for #6 m11(E) and m12(E) bars



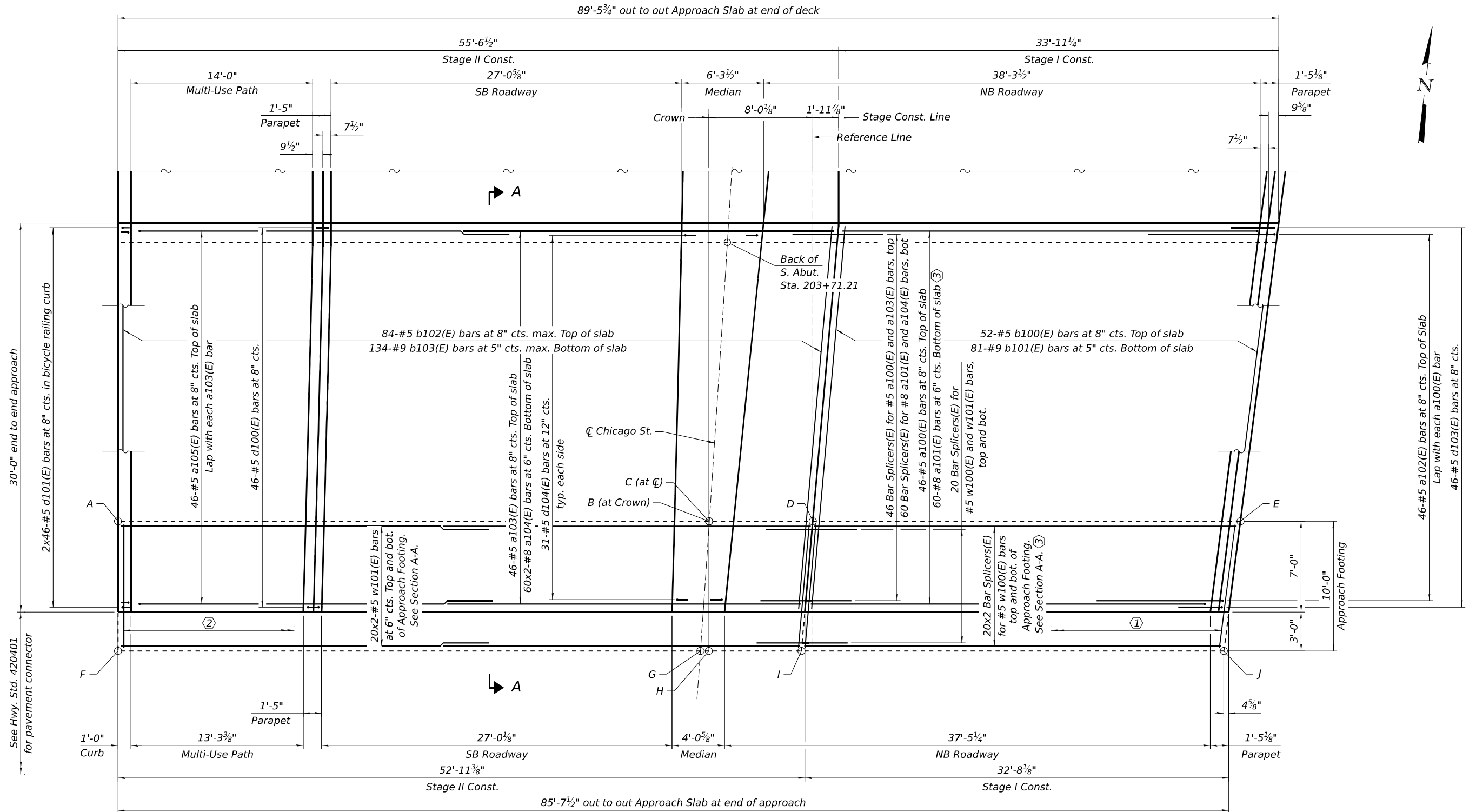
VIEW C-C

*Measured perpendicular to PGL

(Showing bottom flange of beam)

#6 bar = 4'-9"

1. See sheet SC-23 for PJF details.
2. See sheet SC-24 for superstructure details, and Bill of Material.
3. The approach slab seat shall have a constant slope determined from the control points shown.
4. Cost of cellular polystyrene is included with Concrete Superstructure.



PLAN
(South Approach Slab)

MINIMUM BAR LAP
#5 bar = 3'-6"
#8 bar = 4'-9"

- ① 35-#4 t100(E) bars at 12" cts. Top and bottom of Approach Footing. See Section A-A.
- ② 55-#4 t100(E) bars at 12" cts. Top and bottom of Approach Footing. See Section A-A.
- ③ Cut to fit in field as necessary.

- NOTES:**
- Bars indicated thus 20x2-#5 etc. indicates 20 lines of bars with 2 lengths per line.
 - See sheet SC-32 for Cross Section and elevation table for approach footing.
 - See sheet SC-35 for parapet elevations and median plan.
 - See sheet SC-36 for Section A-A, details, and Bill of Material.

MODEL: Default
FILE NAME: 0908306-62F94-5031-BAS01.dgn

wsp
WSP USA Inc.
30 N. LA SALLE STREET
SUITE 400
CHICAGO, IL 60602
TEL: (312) 782-8150
FAX: (312) 782-1684

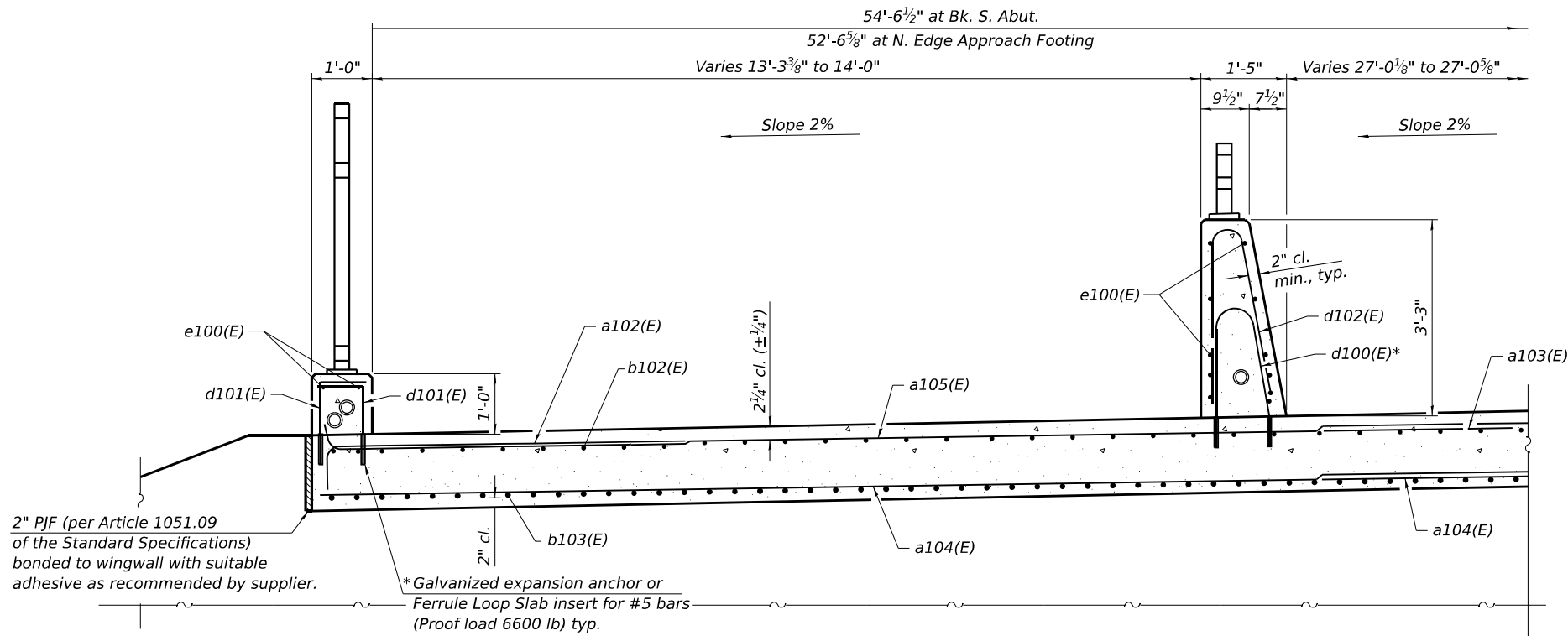
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	CHECKED - LAS	REVISED -
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PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH APPROACH SLAB PLAN
STRUCTURE NUMBER 099-8306**

SHEET SC-31 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	860
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

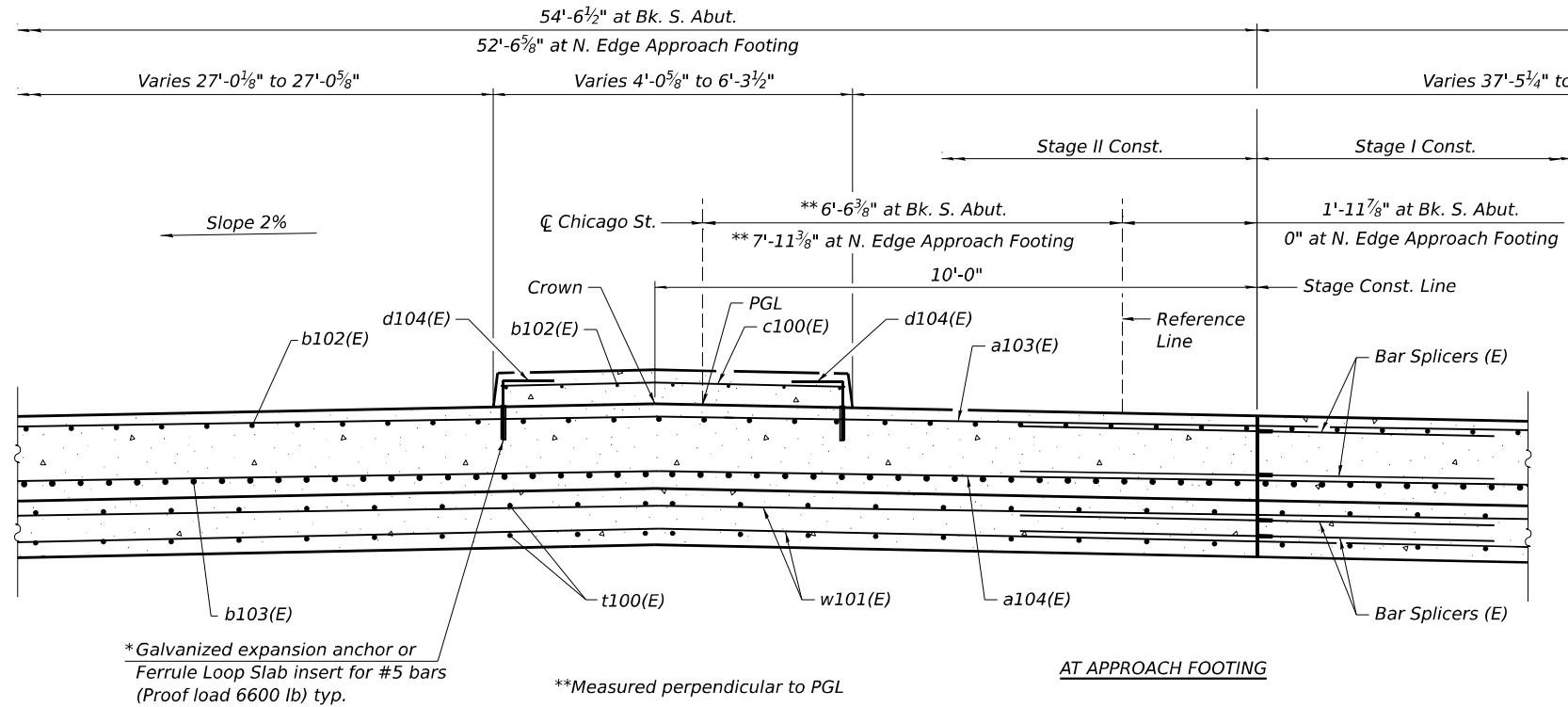


NEAR ABUTMENT
PARTIAL CROSS SECTION
(Looking North)

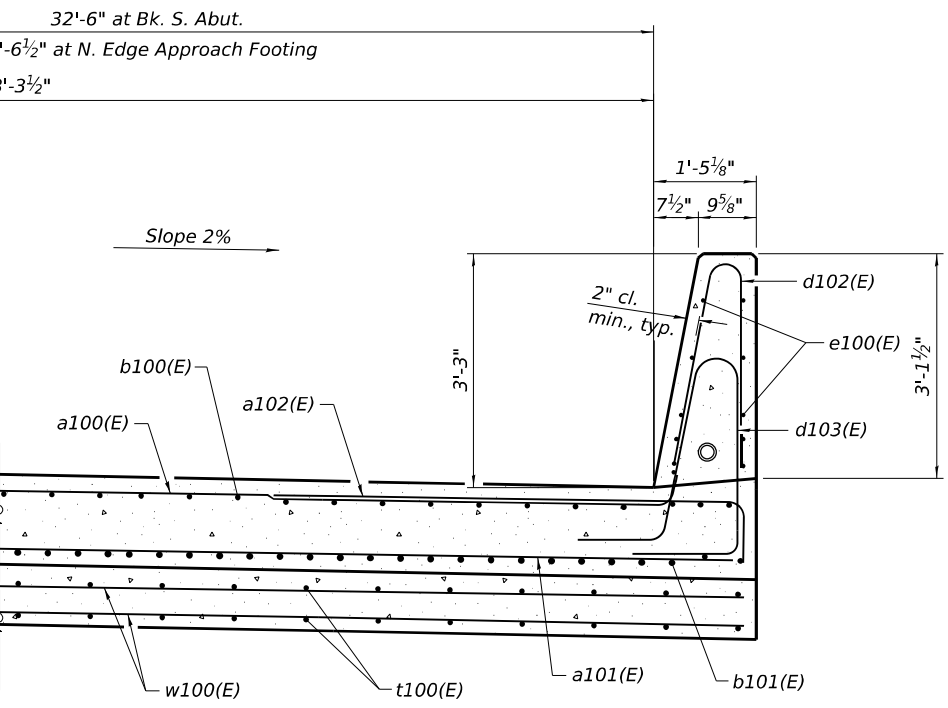
* Drill and set #5 d100(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Located drilled holes to miss transverse bars in deck.

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

South Approach		
Point/ Location	Top	Bottom
A	532.17	531.34
B	533.06	532.23
C	533.08	532.25
D	532.93	532.10
E	532.28	531.45
F	532.38	531.55
G	533.29	532.46
H	533.29	532.46
I	533.13	532.30
J	532.47	531.64



AT APPROACH FOOTING
PARTIAL CROSS SECTION
(Looking North)



- NOTES:**
- See sheet SC-35 for parapet elevations.
 - See sheet SC-36 for details and Bill of Material.
 - See sheet SC-56 for bar splicer details.

MODEL: Default
FILE NAME: 0908306-62F94-5032-8A502.dgn

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

USER NAME = lauxp	DESIGNED - FIM/MI	REVISED -
	CHECKED - PJL	REVISED -
PLOT SCALE = 0:1.9999 " = 1' / in.	DRAWN - NBR	REVISED -
PLOT DATE = 12/2/2025	CHECKED - PJL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH APPROACH SLAB CROSS SECTION
STRUCTURE NUMBER 099-8306**

SHEET SC-32 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	861
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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DESIGNED	- FIM/MI
CHECKED	- PJL
PLOT SCALE	= 0:1.9999 " = 1 in.
PLOT DATE	= 12/2/2025

DESIGNED	- FIM/MI
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DRAWN	- NBR
CHECKED	- PJL

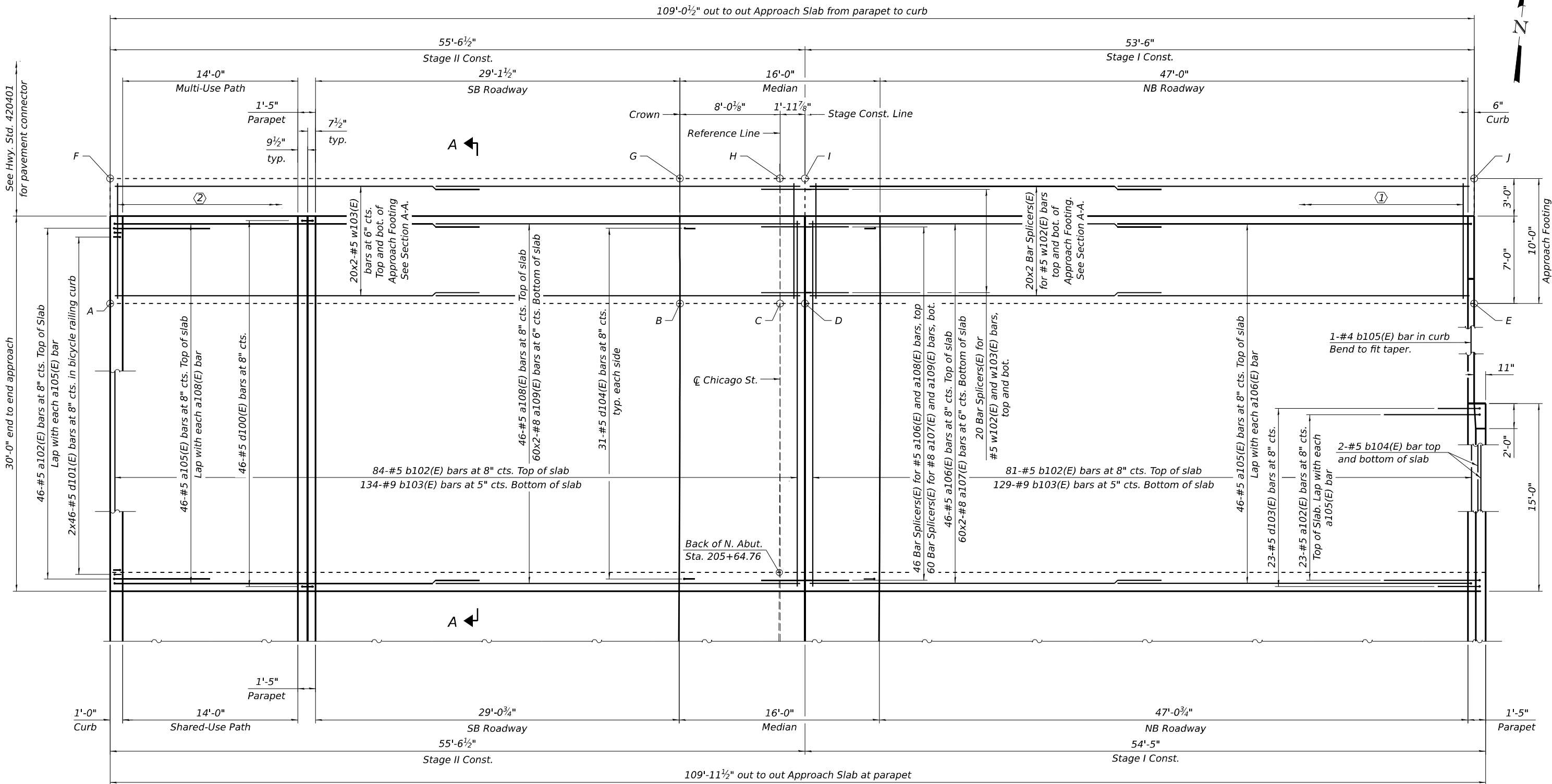
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH APPROACH SLAB PLAN
STRUCTURE NUMBER 099-8306

SHEET SC-33 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	862
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

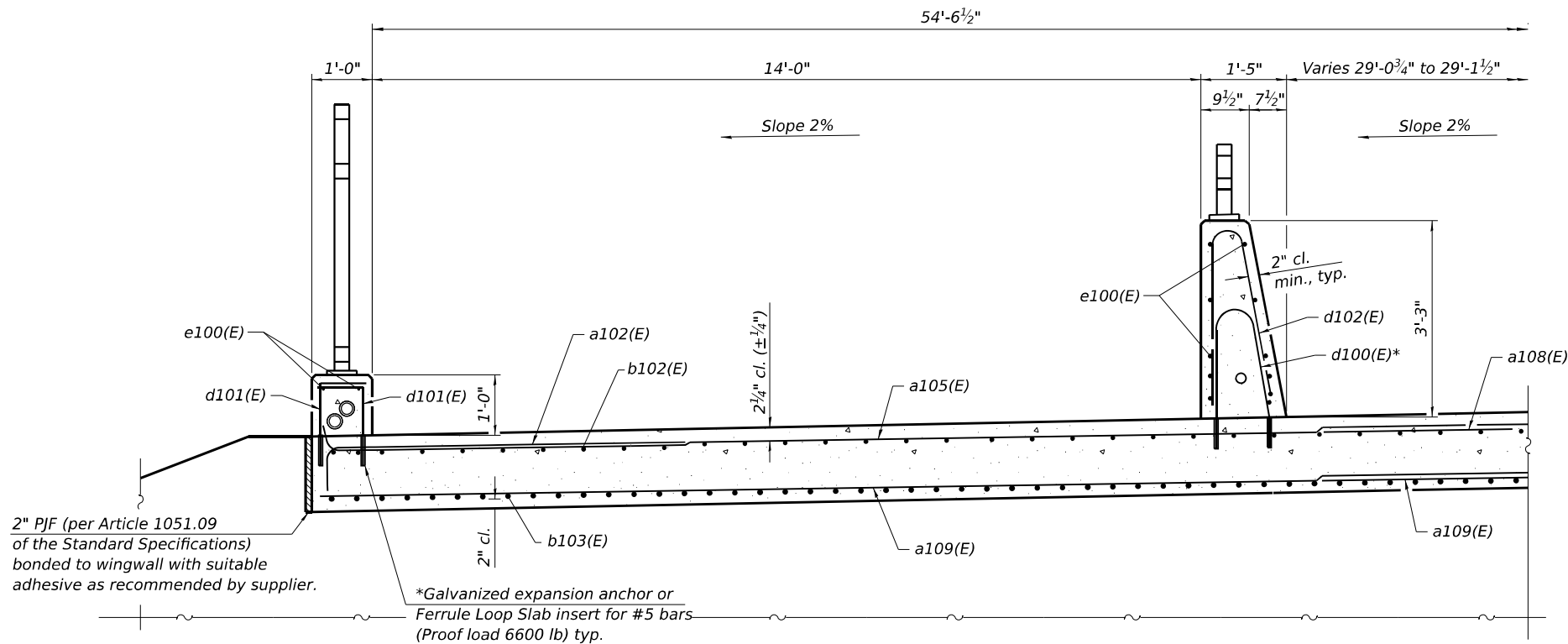


PLAN
(North Approach Slab)

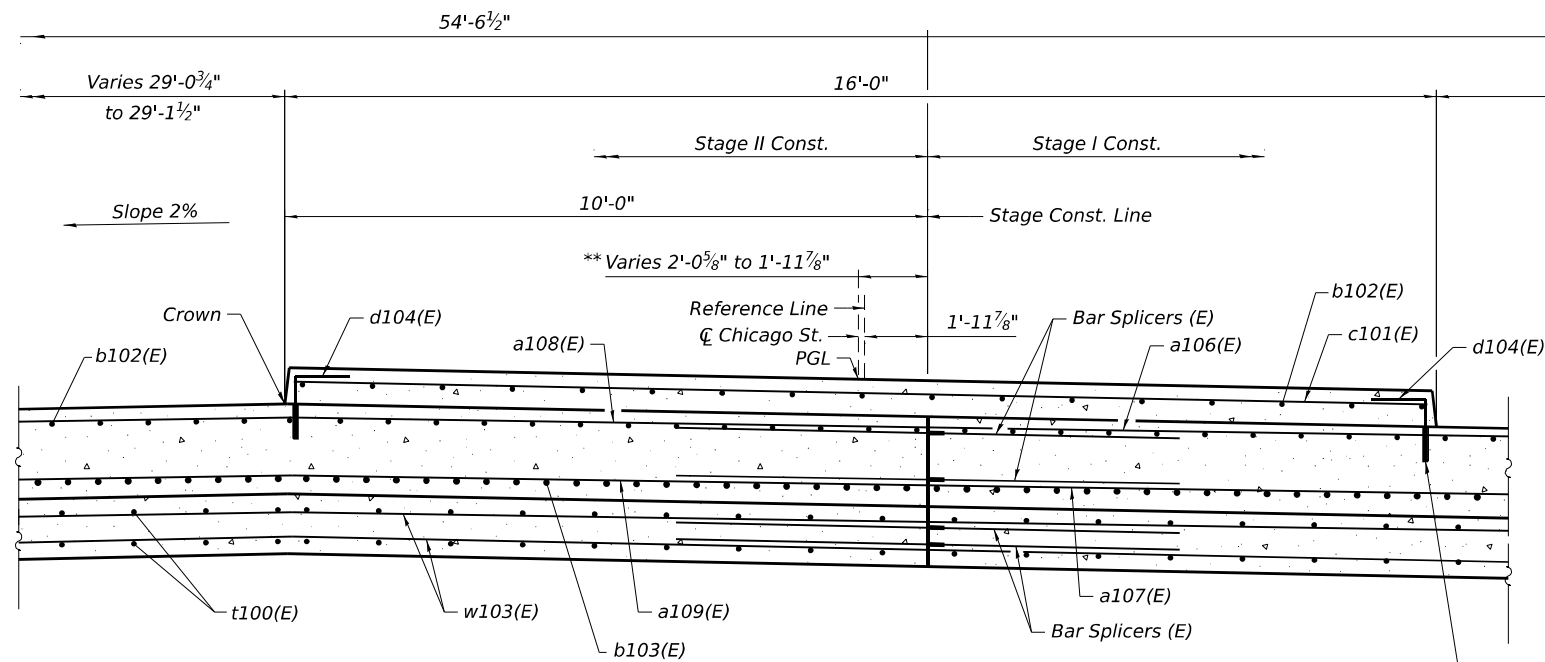
MINIMUM BAR LAP
#5 bar = 3'-6"
#8 bar = 4'-9"

- NOTES:
- Bars indicated thus 20x2-#5 etc. indicates 20 lines of bars with 2 lengths per line.
 - See sheet SC-34 for Cross Section and elevation table for approach footing.
 - See sheet SC-35 for parapet elevations and median plan.
 - See sheet SC-36 for Section A-A, details, and Bill of Material.

- ① 55-#4 t100(E) bars at 12" cts. Top and bottom of Approach Footing. See Section A-A.
- ② 57-#4 t100(E) bars at 12" cts. Top and bottom of Approach Footing. See Section A-A.



PARTIAL CROSS SECTION
(Looking North)



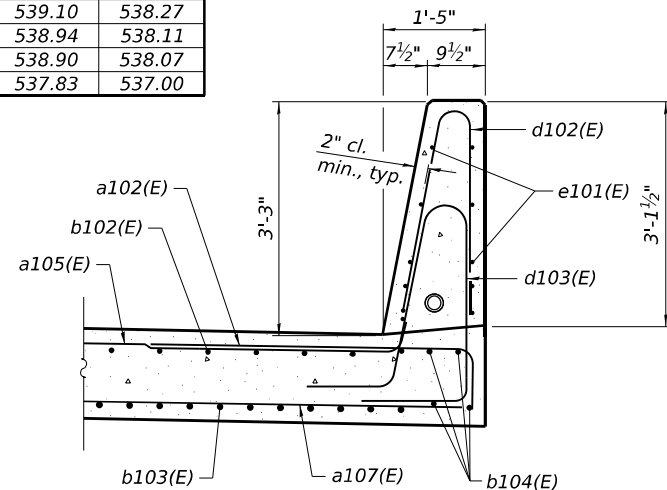
PARTIAL CROSS SECTION
(Looking North)

**Measured perpendicular to PGL

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

North Approach		
Point/ Location	Top	Bottom
A	537.96	537.13
B	538.87	538.04
C	538.71	537.88
D	538.67	537.84
E	537.60	536.77
F	538.19	537.36
G	539.10	538.27
H	538.94	538.11
I	538.90	538.07
J	537.83	537.00

* Drill and set #5 d100(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Located drilled holes to miss transverse bars in deck.



SECTION THRU EAST PARAPET
(Looking North)

NOTES:

1. See sheet SC-35 for parapet elevations.
2. See sheet SC-36 for details and Bill of Material.
3. See sheet SC-56 for bar splicer details.

MODEL: Default
FILE NAME: 0908306-62F94-5034-BAS04.dgn

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

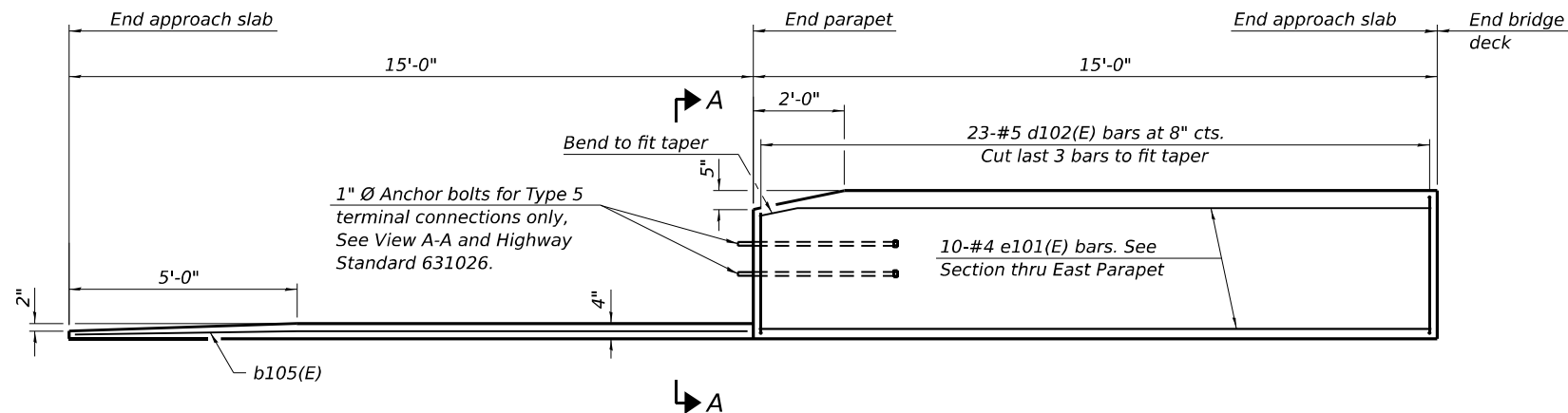
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PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

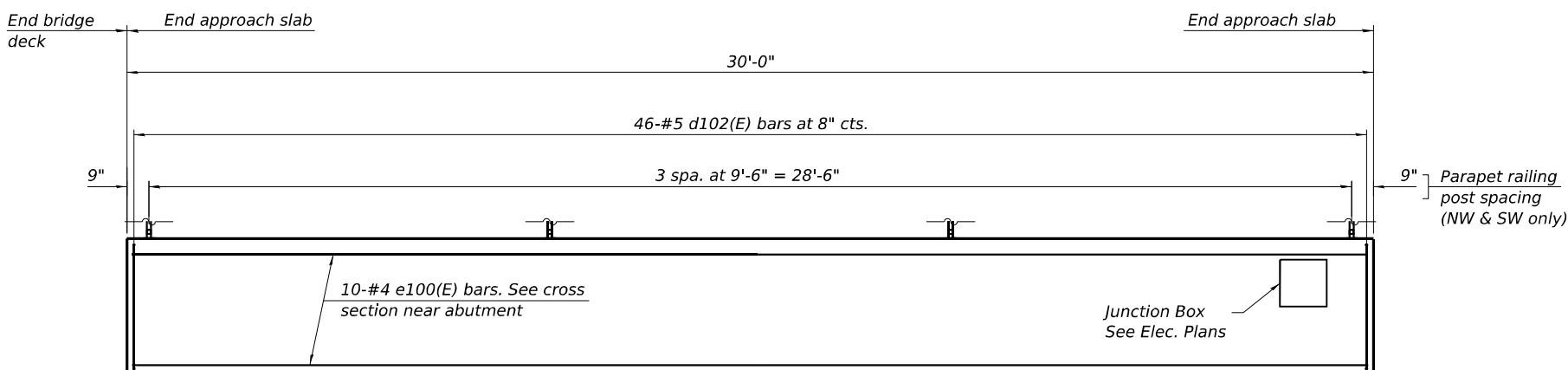
**NORTH APPROACH SLAB CROSS SECTION
STRUCTURE NUMBER 099-8306**

SHEET SC-34 OF SC-60 SHEETS

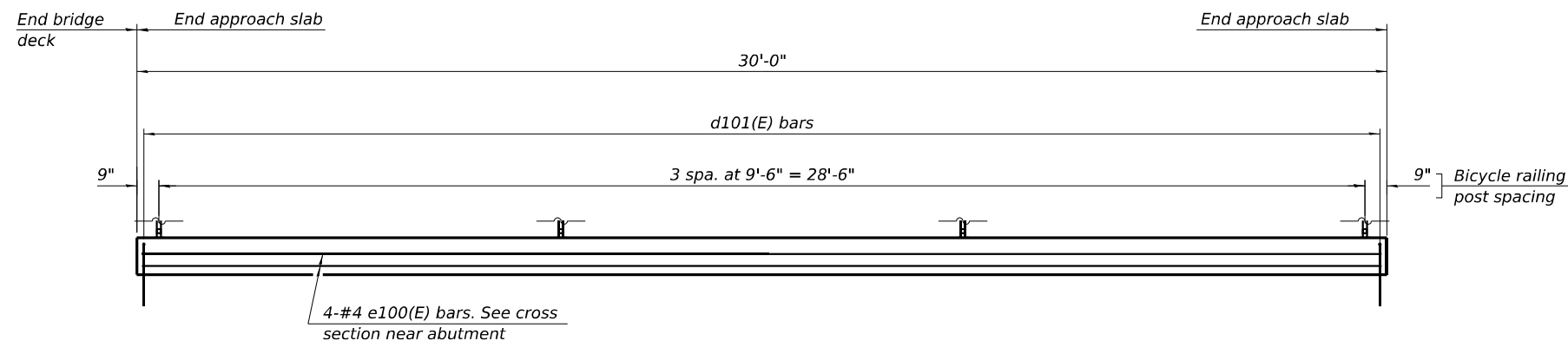
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	863
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



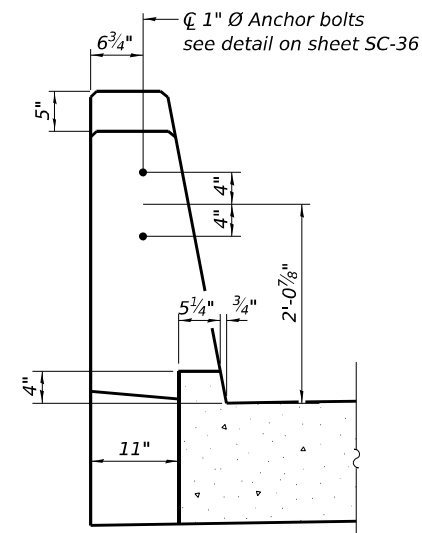
INSIDE ELEVATION OF NORTHEAST PARAPET AND CURB



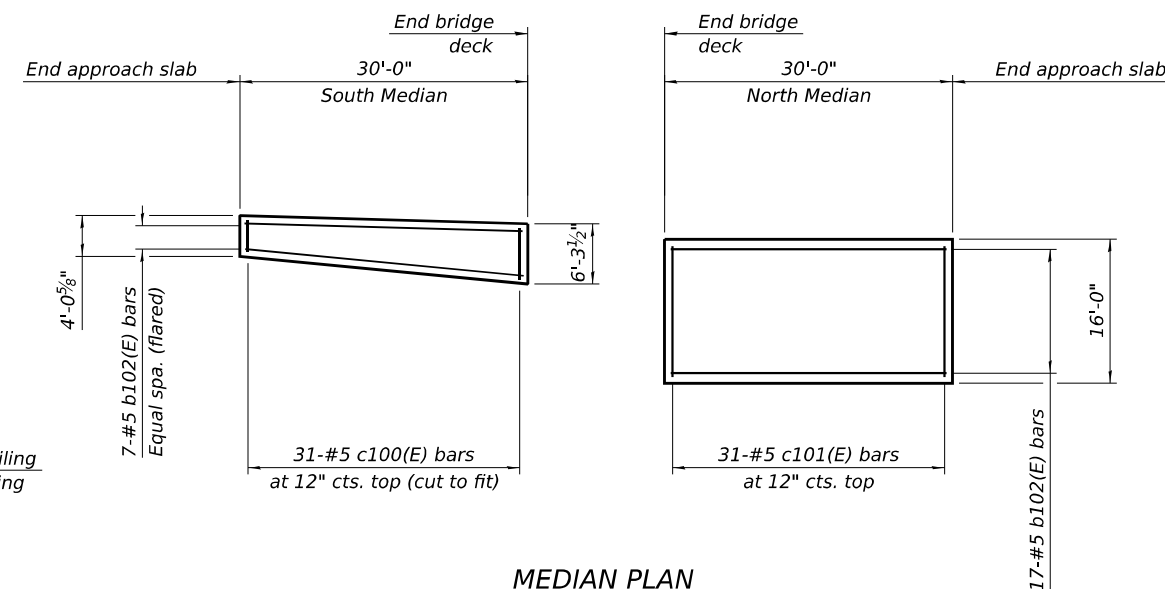
INSIDE ELEVATION OF NORTHWEST AND SOUTHEAST PARAPET
(Southwest Parapet similar but opposite hand)



INSIDE ELEVATION OF NORTH BICYCLE RAILING CURB
(South Bicycle Railing Curb similar but opposite hand)



VIEW A-A



MEDIAN PLAN

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB DETAILS 1
STRUCTURE NUMBER 099-8306**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62F94				

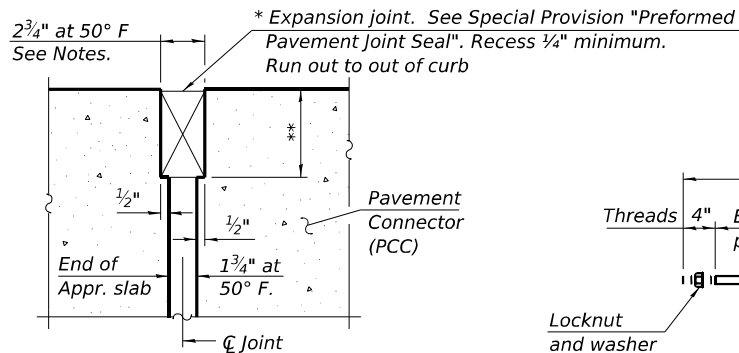
SHEET SC-35 OF SC-60 SHEETS

ILLINOIS FED. AID PROJECT

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

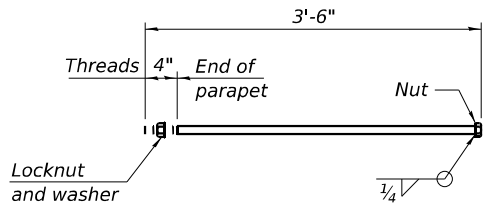
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PLOT DATE = 12/2/2025	DRAWN - NBR	REVISED -
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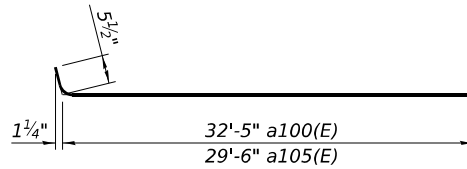
DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).

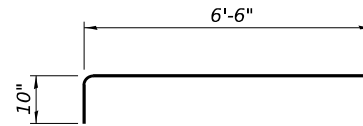
** Per manufacturer recommendations



* 1" Ø ANCHOR BOLT
(Anchor bolt assemblies shall be
galvanized according to Article 1006.09
of the Standard Specifications)



BAR a100(E) & a105(E)



BAR a102(E)

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet, median and curb concrete shall be paid for as Concrete Superstructure.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

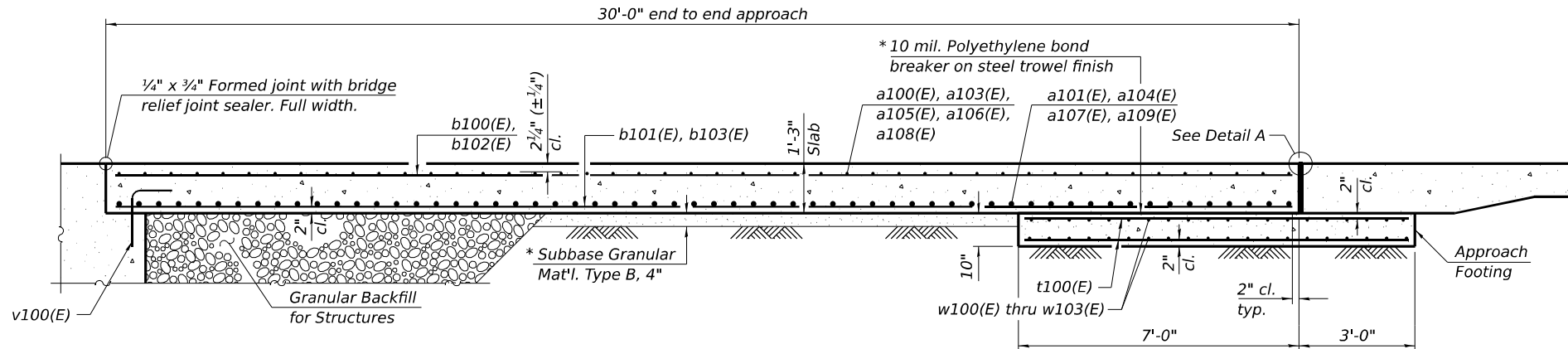
For Granular Backfill for Structures and drainage treatment details, see sheet SC-3.

SOUTH APPROACH
BILL OF MATERIAL

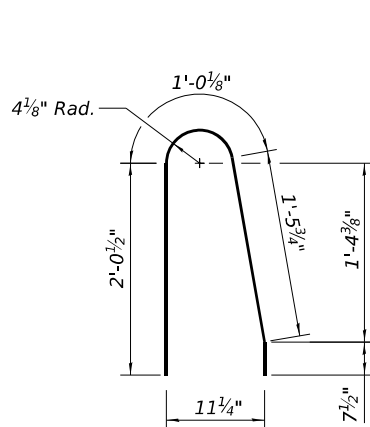
Bar	No.	Size	Length	Shape
a100(E)	46	#5	32'-11"	
a101(E)	60	#8	33'-7"	
a102(E)	92	#5	7'-4"	
a103(E)	46	#5	28'-6"	
a104(E)	120	#8	30'-0"	
a105(E)	46	#5	30'-0"	
b100(E)	52	#5	29'-10"	
b101(E)	81	#9	29'-10"	
b102(E)	91	#5	29'-8"	
b103(E)	134	#9	29'-8"	
c100(E)	31	#5	5'-11"	
d100(E)	46	#5	5'-2"	
d101(E)	92	#5	1'-9"	
d102(E)	92	#5	6'-5"	
d103(E)	46	#5	8'-6"	
d104(E)	62	#5	1'-6"	
e100(E)	24	#4	29'-8"	
e101(E)	10	#4	14'-8"	
t100(E)	180	#4	9'-8"	
w100(E)	40	#5	32'-7"	
w101(E)	80	#5	28'-5"	
Concrete Superstructure			Cu. Yd.	11.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	121.7
Concrete Structures			Cu. Yd.	26.5
Reinforcement Bars, Epoxy Coated			Pound	53,350
Bridge Deck Grooving			Sq. Yd.	242
Protective Coat			Sq. Yd.	332

NORTH APPROACH
BILL OF MATERIAL

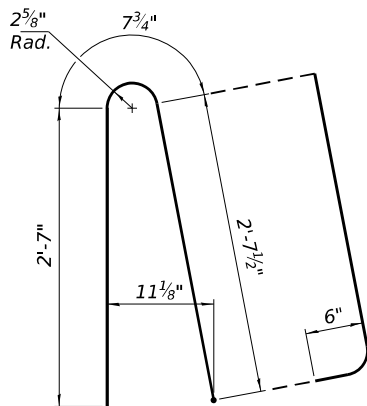
Bar	No.	Size	Length	Shape
a102(E)	69	#5	7'-4"	
a105(E)	92	#5	30'-0"	
a106(E)	46	#5	27'-0"	
a107(E)	120	#8	29'-0"	
a108(E)	46	#5	29'-3"	
a109(E)	120	#8	30'-0"	
b102(E)	182	#5	29'-8"	
b103(E)	263	#9	29'-8"	
b104(E)	4	#5	14'-8"	
b105(E)	1	#4	14'-8"	
c101(E)	31	#5	15'-8"	
d100(E)	46	#5	5'-2"	
d101(E)	92	#5	1'-9"	
d102(E)	69	#5	6'-5"	
d103(E)	23	#5	8'-6"	
d104(E)	62	#5	1'-6"	
e100(E)	14	#4	29'-8"	
e101(E)	10	#4	14'-8"	
t100(E)	224	#4	9'-8"	
w102(E)	80	#5	28'-5"	
w103(E)	80	#5	29'-5"	
Concrete Superstructure			Cu. Yd.	15.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	139.6
Concrete Structures			Cu. Yd.	33.7
Reinforcement Bars, Epoxy Coated			Pound	65,580
Bridge Deck Grooving			Sq. Yd.	281
Protective Coat			Sq. Yd.	375



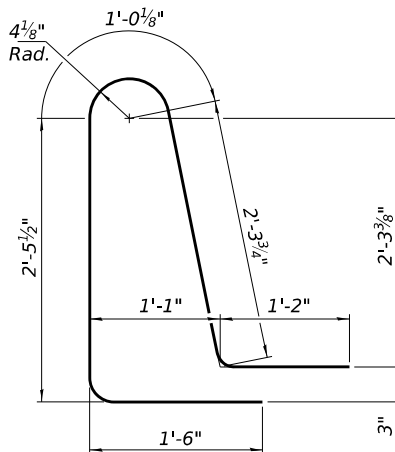
SECTION A-A



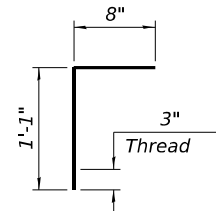
BAR d100(E)



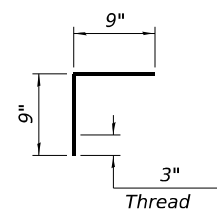
BAR d102(E)



BAR d103(E)



BAR d101(E)



BAR d104(E)

MODEL: Default
FILE NAME: 0998306-62F94-5036-BAS06.dgn



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

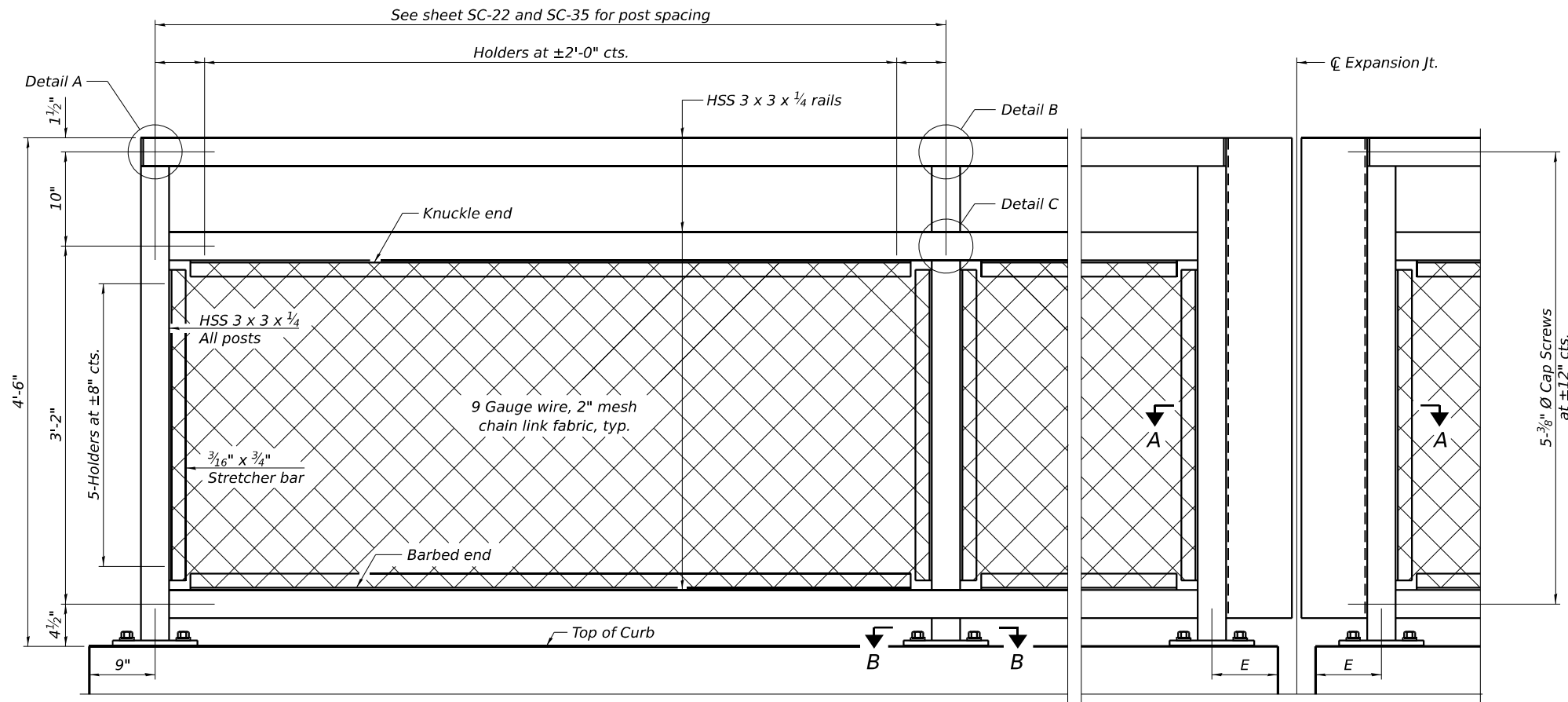
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

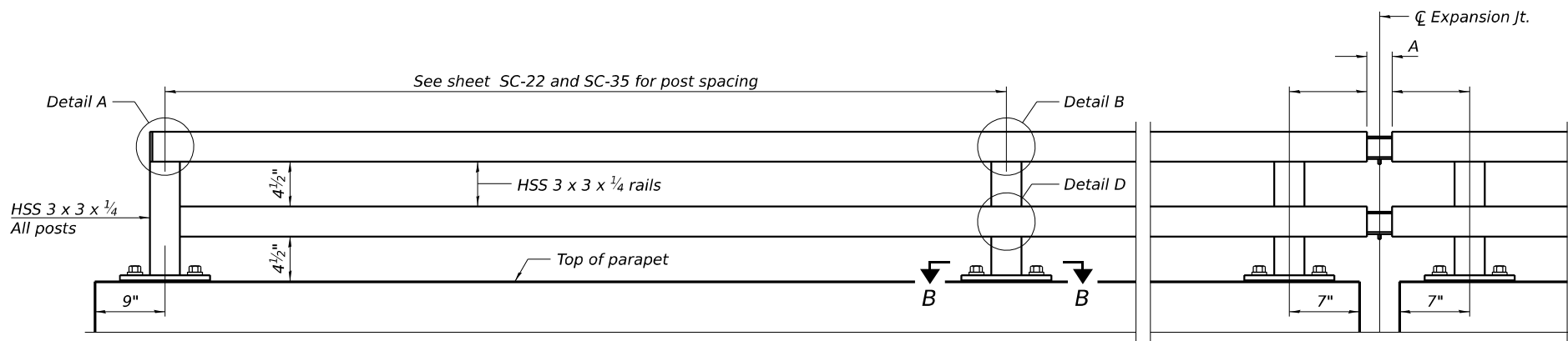
APPROACH SLAB DETAILS 2
STRUCTURE NUMBER 099-8306

SHEET SC-36 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	865
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



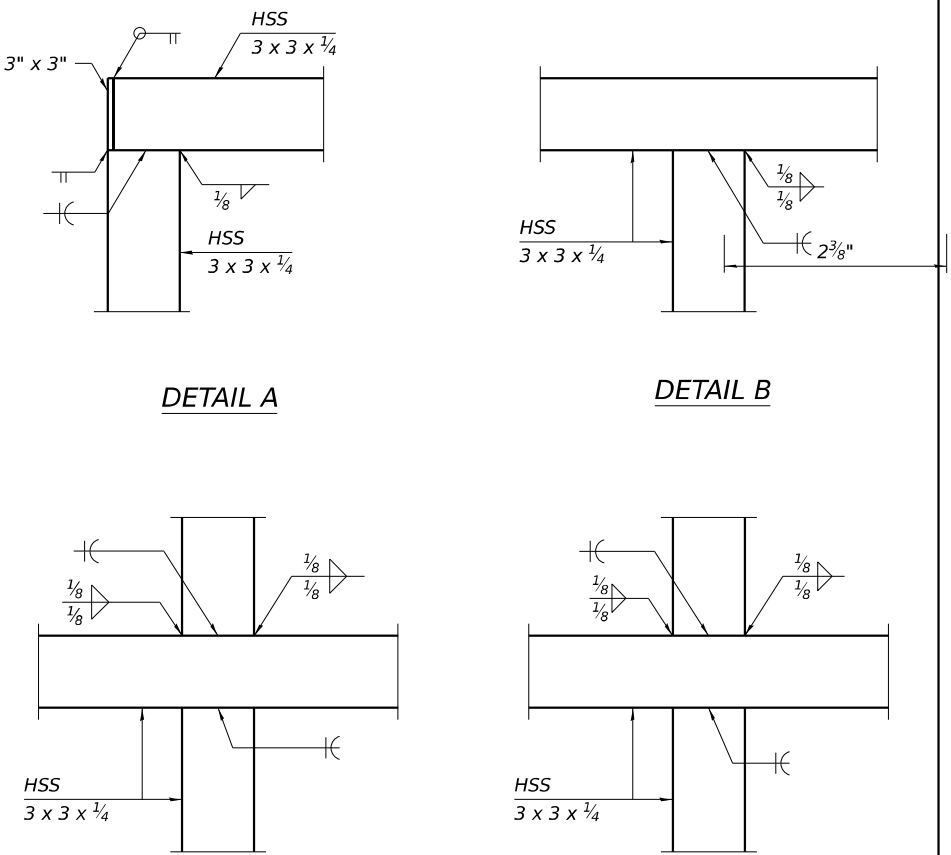
ELEVATION BICYCLE RAILING
(Inside face)



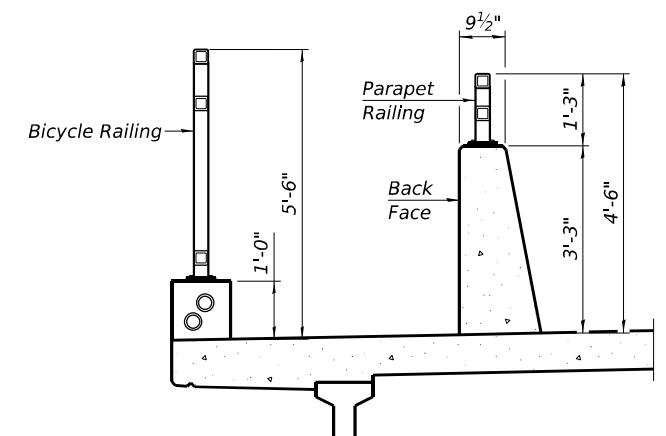
ELEVATION PARAPET RAILING
(Inside face)

RAILING CRITERIA

MASH 2016 Test Level	4
Parapet Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"



DETAIL A
DETAIL B
DETAIL C
DETAIL D



SECTION THRU DECK

R-29

10-27-2023



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

USER NAME	= lauxp
PLOT SCALE	= 0:1.9999 " = 1" / in.
PLOT DATE	= 12/2/2025

DESIGNED	- BK
CHECKED	- LAS
DRAWN	- BK
CHECKED	- LAS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

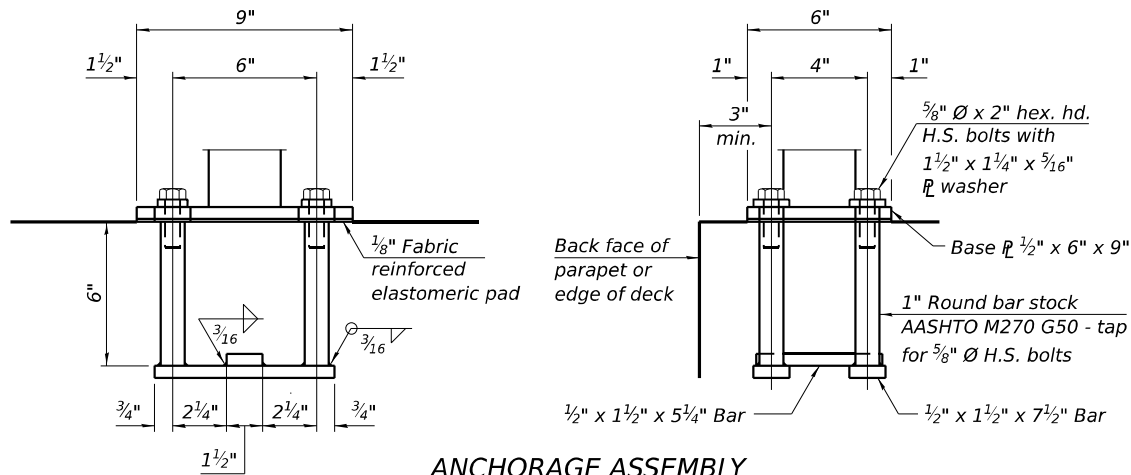
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING AND PARAPET RAILING 1
STRUCTURE NUMBER 099-8306

SHEET SC-37 OF SC-60 SHEETS

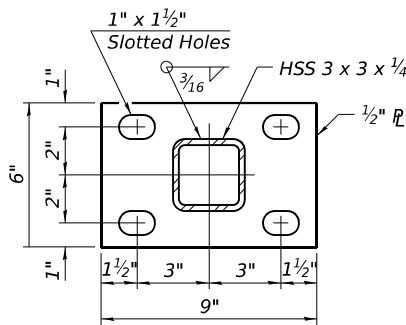
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	866
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

(Sheet 1 of 2)

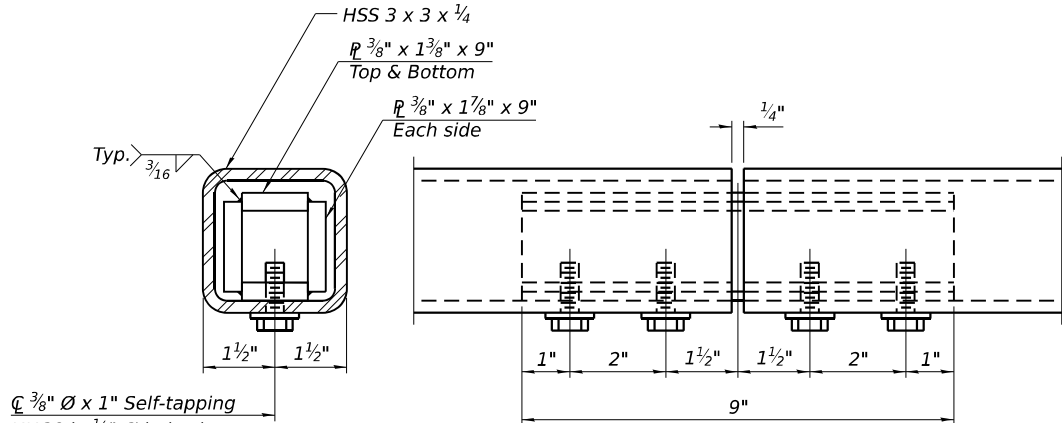


ANCHORAGE ASSEMBLY

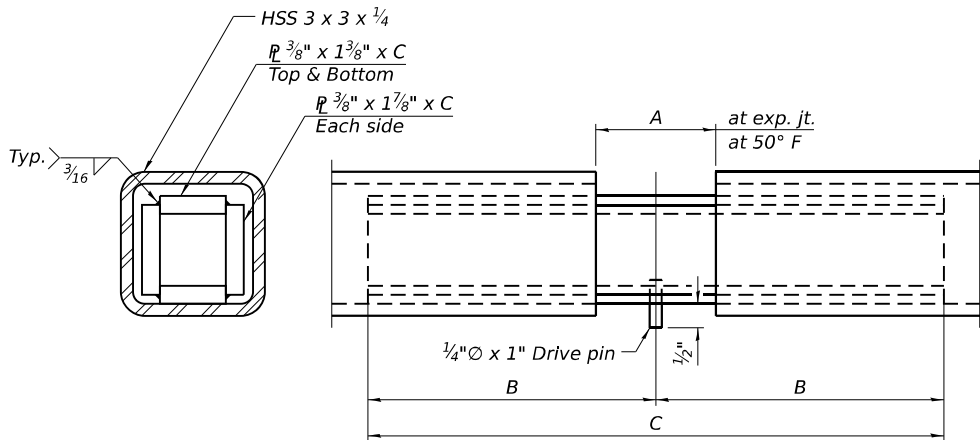
The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates.
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



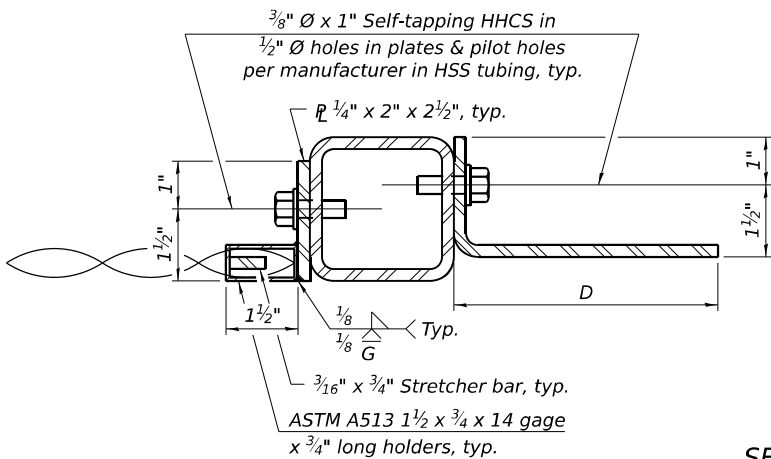
SECTION B-B



MATERIAL SPLICE



EXPANSION SPLICE



SECTION A-A

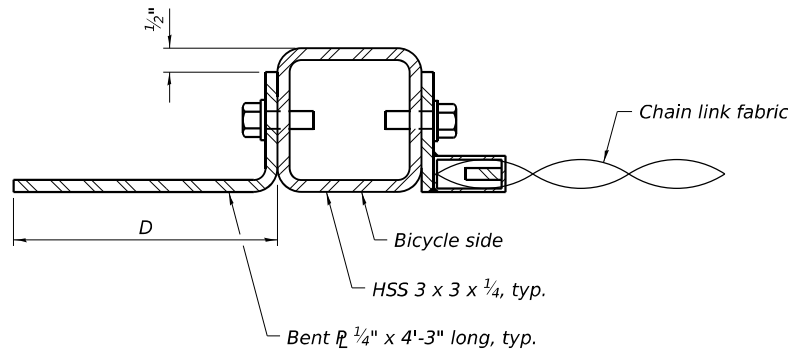


TABLE OF DIMENSIONS

Location	T	A	B	C	D	E
Over Strip Seal Jt.	≤4"	2 1/2"	1'-2"	2'-4"	7 1/4"	7"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	1'-7 3/4"	3'-3 1/2"		
Over Finger or Modular Jt.	≤15"	8 1/4"	2'-1 1/4"	4'-2 1/2"		

T= ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	252
Parapet Railing	Foot	252

R-29

10-27-2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

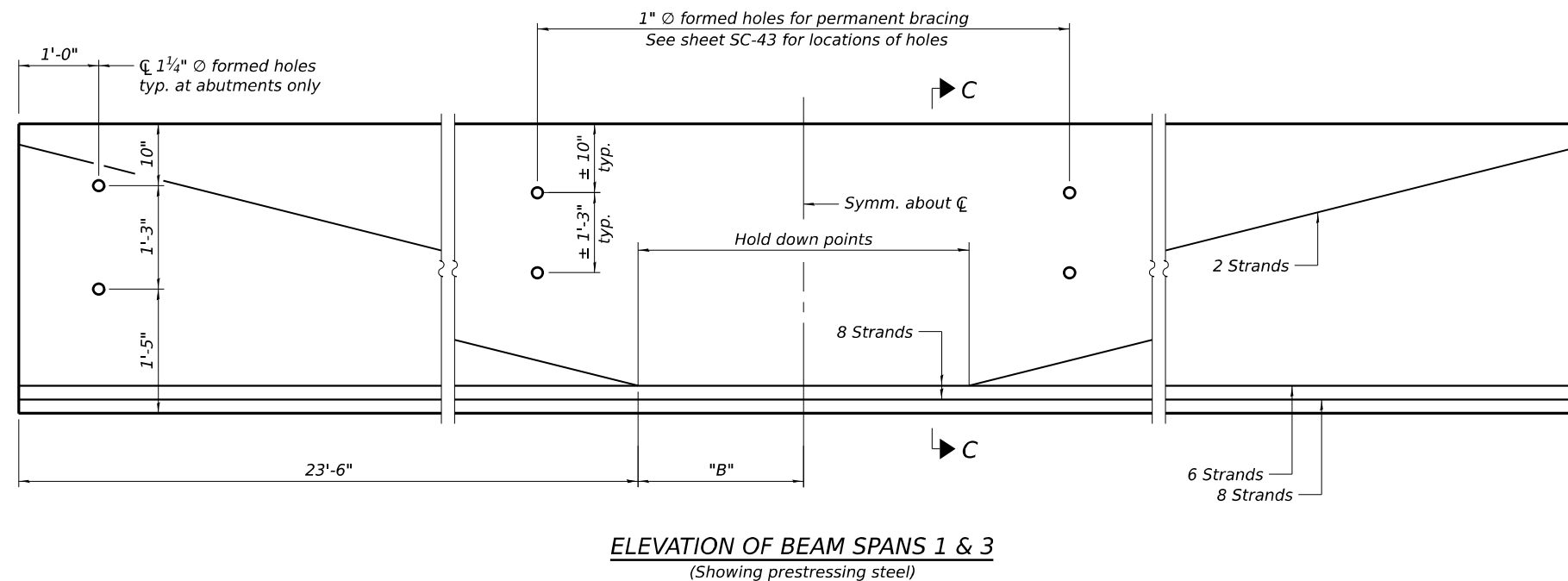
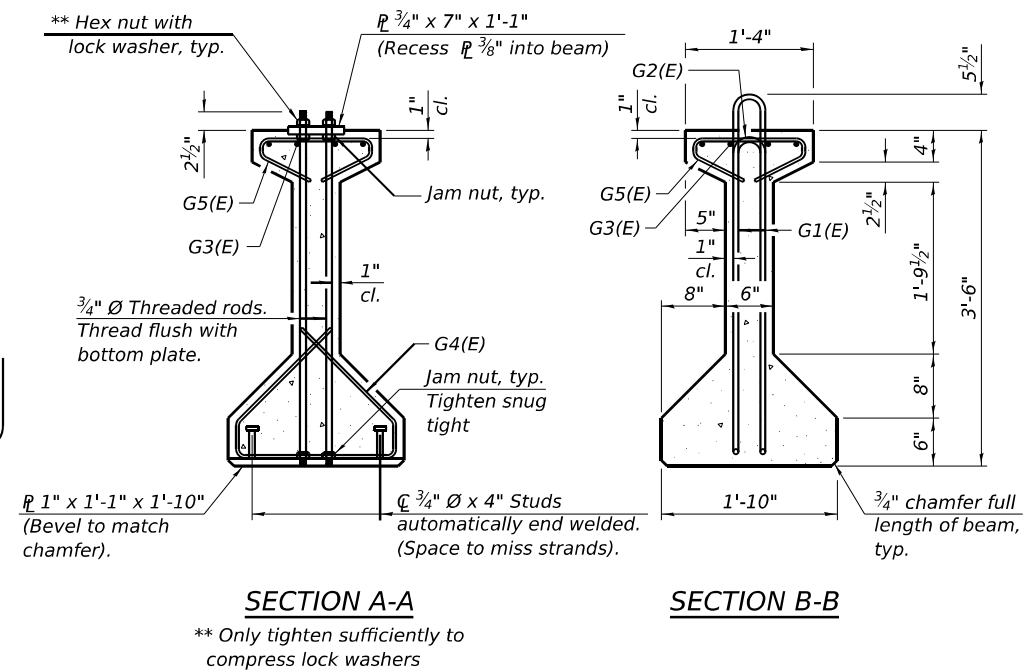
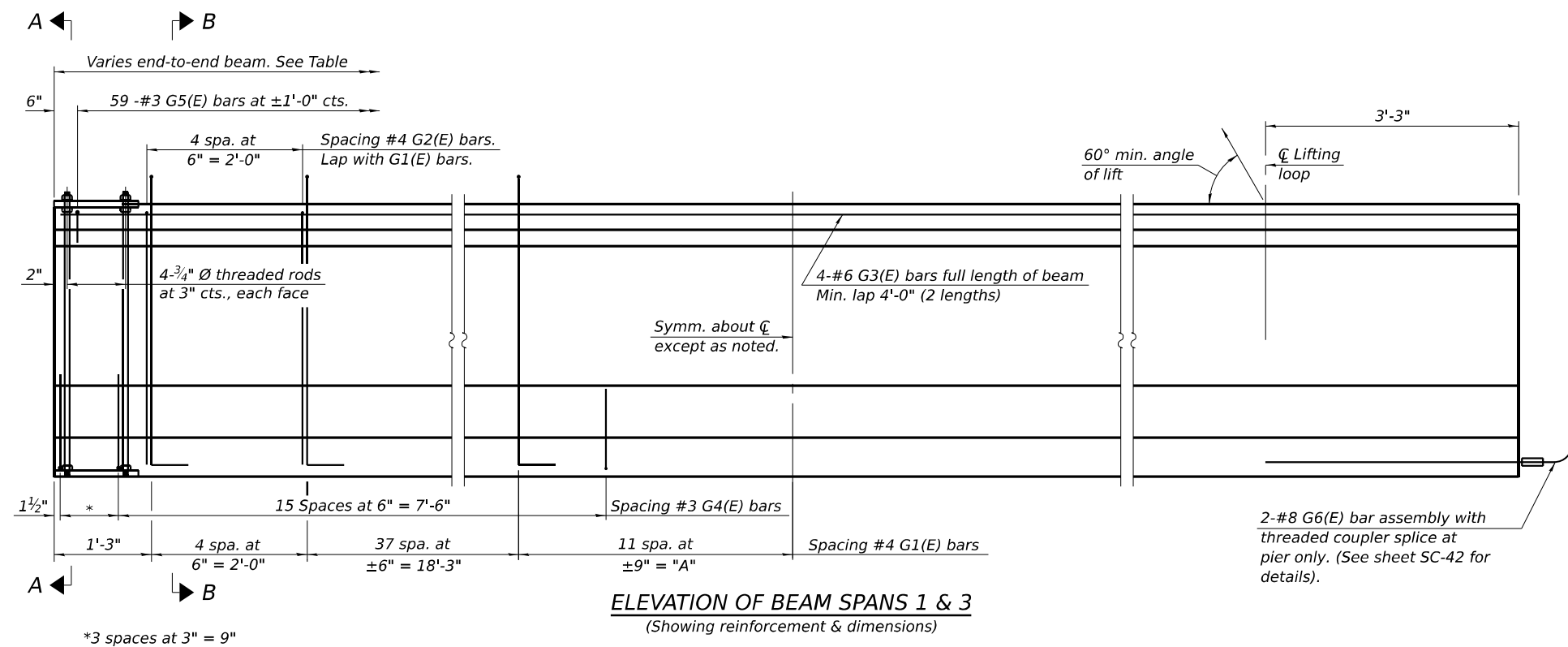
BICYCLE RAILING AND PARAPET RAILING 2
STRUCTURE NUMBER 099-8306

(Sheet 2 of 2)

SHEET SC-38 OF SC-60 SHEETS

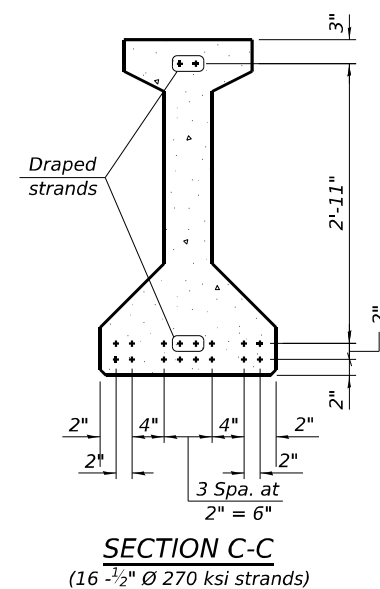
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	867
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

USER NAME	= lauxpj
DESIGNED	- BK
CHECKED	- LAS
REVIS	-
PLOT SCALE	= 0:1.9999 " = 1"
DRAWN	- BK
REVIS	-
PLOT DATE	= 12/2/2025
CHECKED	- LAS
REVIS	-



SPANS 1 & 3 BEAM INFORMATION TABLE

Beam	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Length	58'-4 $\frac{1}{2}$ "	58'-4 $\frac{1}{2}$ "	58'-4 $\frac{1}{2}$ "	58'-4 $\frac{1}{2}$ "	58'-4 $\frac{1}{2}$ "	58'-4 $\frac{1}{2}$ "	58'-4 $\frac{1}{2}$ "	58'-4 $\frac{1}{2}$ "	58'-4 $\frac{5}{8}$ "	58'-4 $\frac{3}{4}$ "	58'-6"	58'-7"	58'-8 $\frac{1}{2}$ "	58'-10 $\frac{1}{4}$ "
A	7'-8 $\frac{1}{4}$ "	7'-8 $\frac{1}{4}$ "	7'-8 $\frac{1}{4}$ "	7'-8 $\frac{1}{4}$ "	7'-8 $\frac{1}{4}$ "	7'-8 $\frac{1}{4}$ "	7'-8 $\frac{1}{4}$ "	7'-8 $\frac{1}{4}$ "	7'-8 $\frac{3}{8}$ "	7'-8 $\frac{3}{8}$ "	7'-9"	7'-9 $\frac{1}{2}$ "	7'-10 $\frac{1}{4}$ "	7'-11 $\frac{3}{8}$ "
B	5'-8 $\frac{1}{4}$ "	5'-8 $\frac{1}{4}$ "	5'-8 $\frac{1}{4}$ "	5'-8 $\frac{1}{4}$ "	5'-8 $\frac{1}{4}$ "	5'-8 $\frac{1}{4}$ "	5'-8 $\frac{1}{4}$ "	5'-8 $\frac{1}{4}$ "	5'-8 $\frac{3}{8}$ "	5'-8 $\frac{3}{8}$ "	5'-9"	5'-9 $\frac{1}{2}$ "	5'-10 $\frac{1}{4}$ "	5'-11 $\frac{3}{8}$ "

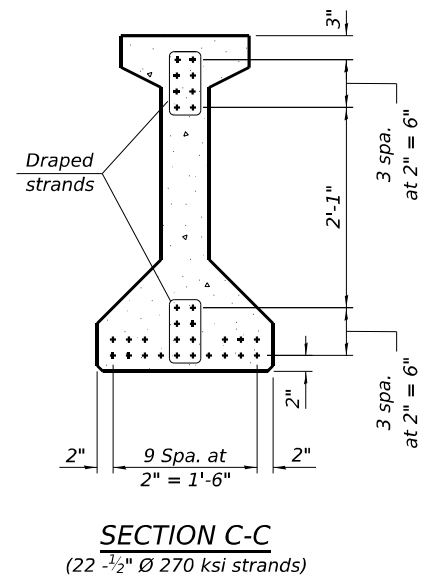
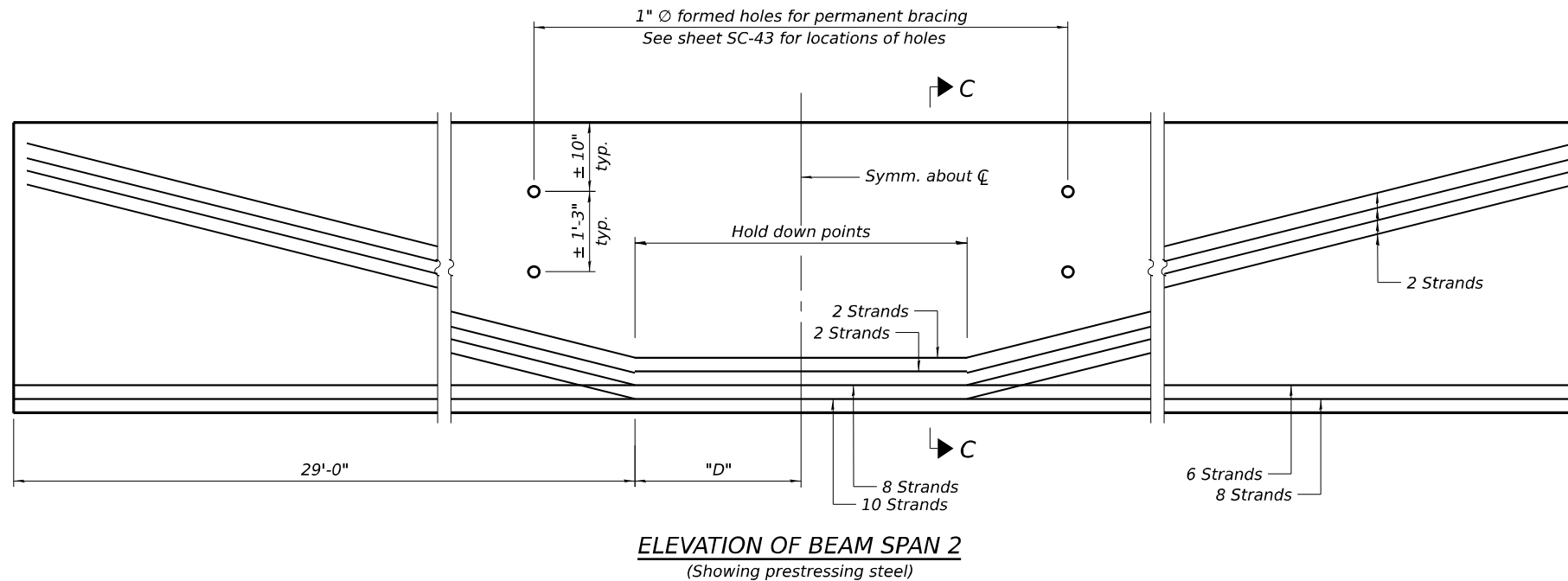
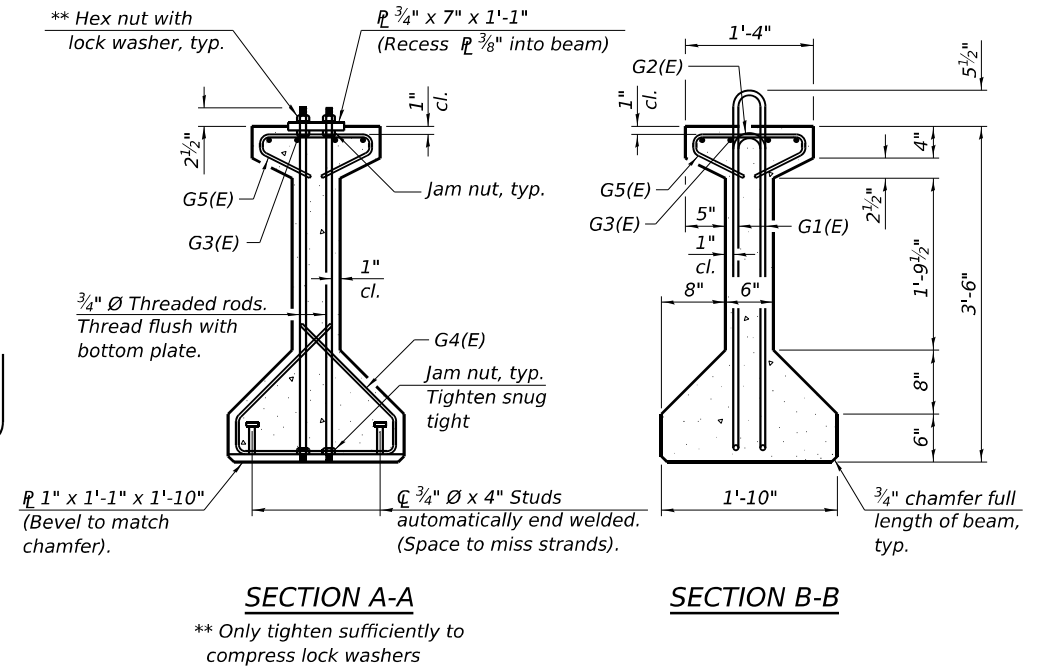
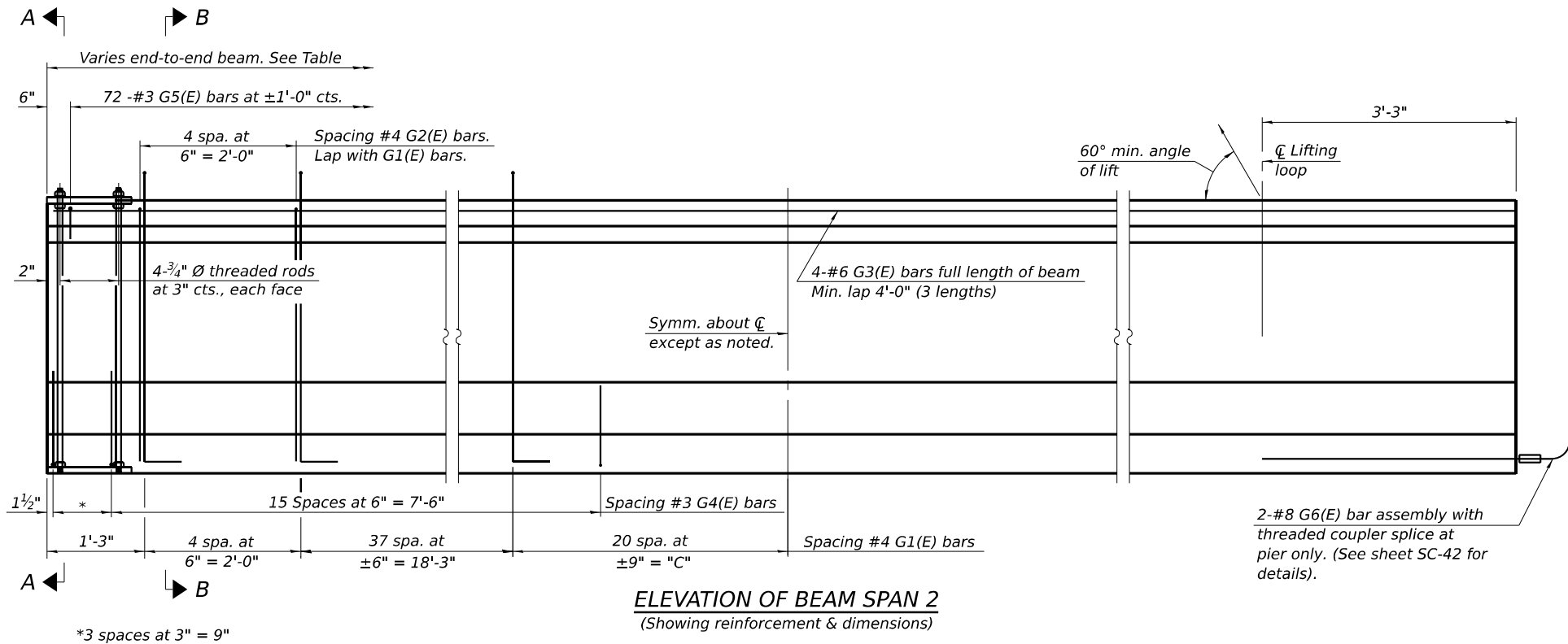


BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
G1(E)	106	#4	8'-7"	
G2(E)	10	#4	6'-8"	
G3(E)	8	#6	31'-3"	
G4(E)	38	#3	4'-11"	
G5(E)	59	#3	2'-6"	
G6(E)	2	#8	6'-6"	

NOTES:

1. See sheet SC-42 for additional details and Bill of Materials



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
G1(E)	124	#4	8'-7"	U
G2(E)	10	#4	6'-8"	U
G3(E)	12	#6	26'-2"	—
G4(E)	38	#3	4'-11"	U
G5(E)	72	#3	2'-6"	U
G6(E)	4	#8	6'-6"	U

NOTES:

- See sheet SC-42 for additional details and Bill of Materials

SPAN 2 BEAM INFORMATION TABLE

Beam	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Length	72'-0"	72'-0"	72'-0"	72'-0"	72'-0"	72'-0"	72'-0"	72'-0"	72'-0 1/4"	72'-0 3/4"	72'-1 3/4"	72'-3 1/4"	72'-5"	72'-7 1/8"
C	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6 1/8"	14'-6 3/8"	14'-6 7/8"	14'-7 5/8"	14'-8 1/2"	14'-9 5/8"
D	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0 1/8"	7'-0 3/8"	7'-0 7/8"	7'-1 3/8"	7'-2 1/2"	7'-3 3/8"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" PPC I-BEAM SPAN 2
STRUCTURE NUMBER 099-8306

SHEET SC-41 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	870
CONTRACT NO. 62F94				

ILLINOIS FED. AID PROJECT

USER NAME = lauxj	DESIGNED - SJJ	REVISED -
CHECKED - KB	REVISED -	
PLOT SCALE = 0:1.9999" = 1"	DRAWN - SJJ	REVISED -
PLOT DATE = 12/2/2025	CHECKED - KB	REVISED -

NOTES

Inserts for 3/4" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

The beams shall have a final concrete compressive strength, f'c, of 6,000 psi and a release concrete compressive strength, f'ci, of 5,000 psi.

A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.

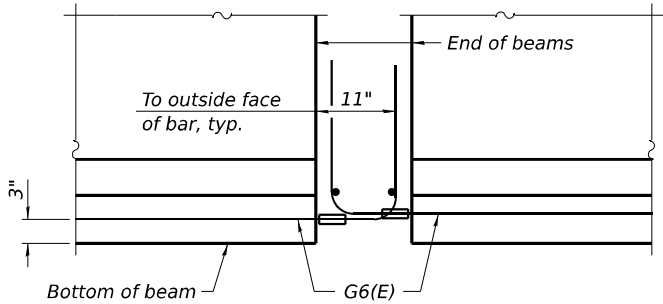
Tilt G6(E) bars when necessary to maintain 1 1/2" clearance.

The top and bottom plates shall be AASHTO M270 Grade 50.

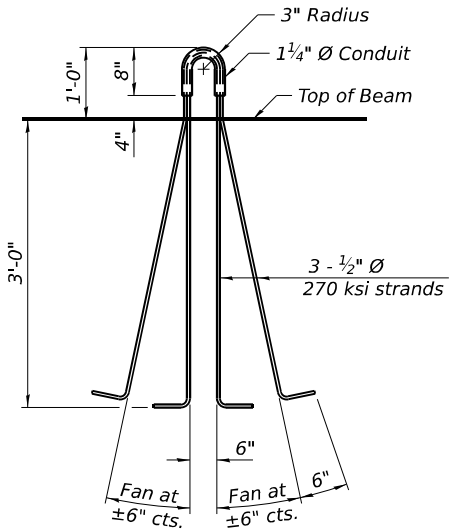
The top and bottom plates shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232.

Threaded rods shall be ASTM F 1554 Grade 55.

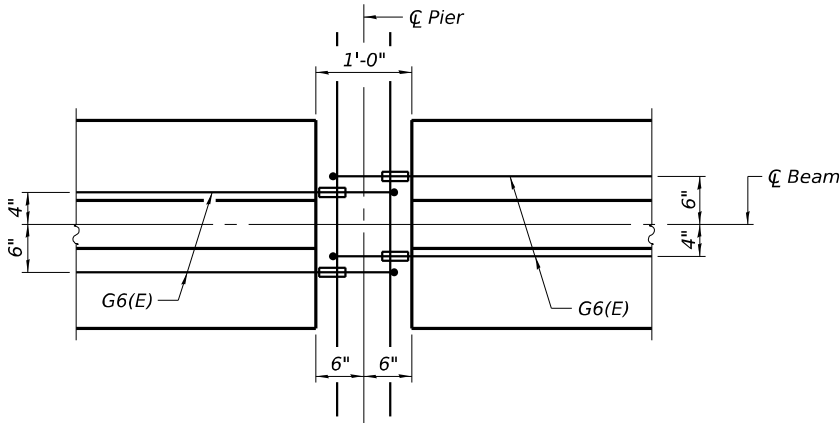
The G6(E) bar assembly shall develop, in tension, at least 125 percent of the yield strength of a grade 60 reinforcement bar times the nominal cross-sectional area of a #8 bar. The assembly shall allow completion of the splice without turning of the hook bar. The hook bar shall be threaded such that the entire coupler can be threaded onto the hook bar.



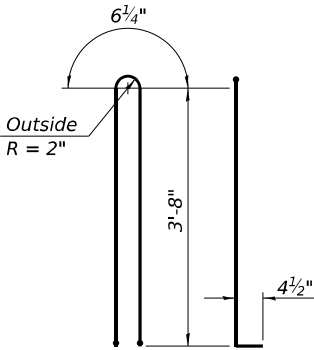
ELEVATION OF BEAM AT PIER



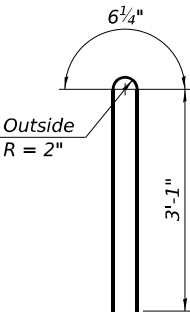
LIFTING LOOP DETAIL



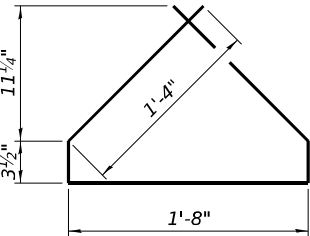
PLAN OF BEAM AT PIER



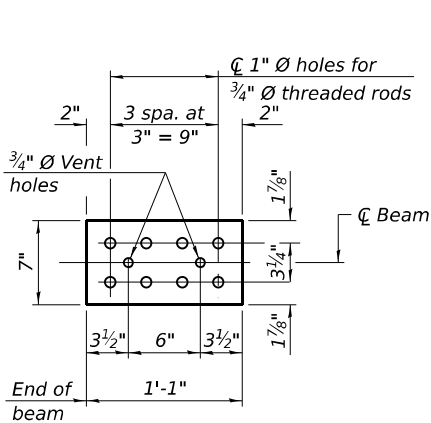
BAR G1(E)



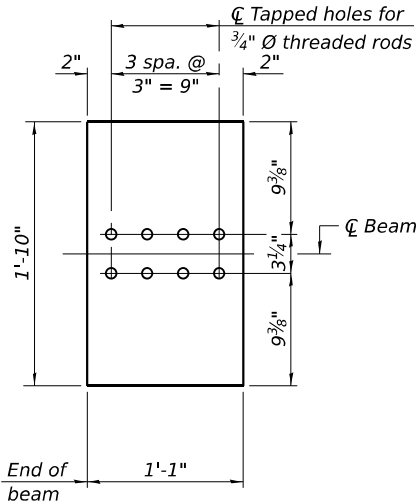
BAR G2(E)



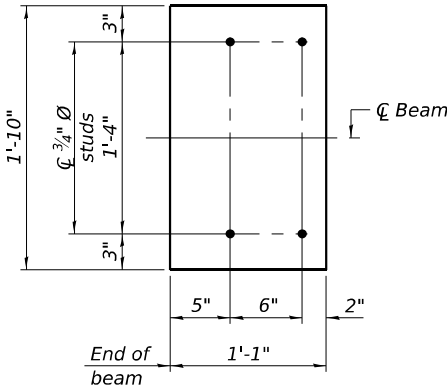
BAR G4(E)



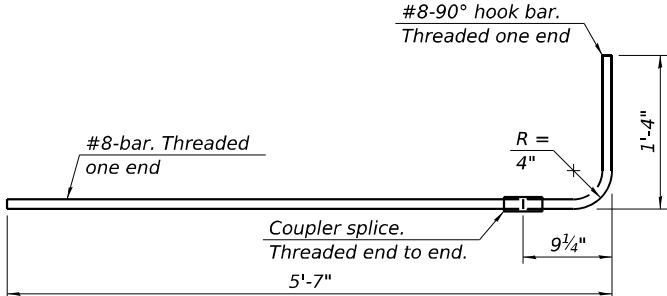
TOP PLATE



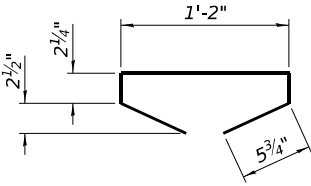
BOTTOM PLATE
(Showing threaded rods)



BOTTOM PLATE
(Showing studs)



G6(E) BAR ASSEMBLY



BAR G5(E)

See bearing details for pintle hole locations when required.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42"	Ft.	2,648

MODEL: Default
FILE NAME: 0998306-62F94-5042-003.dgn



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

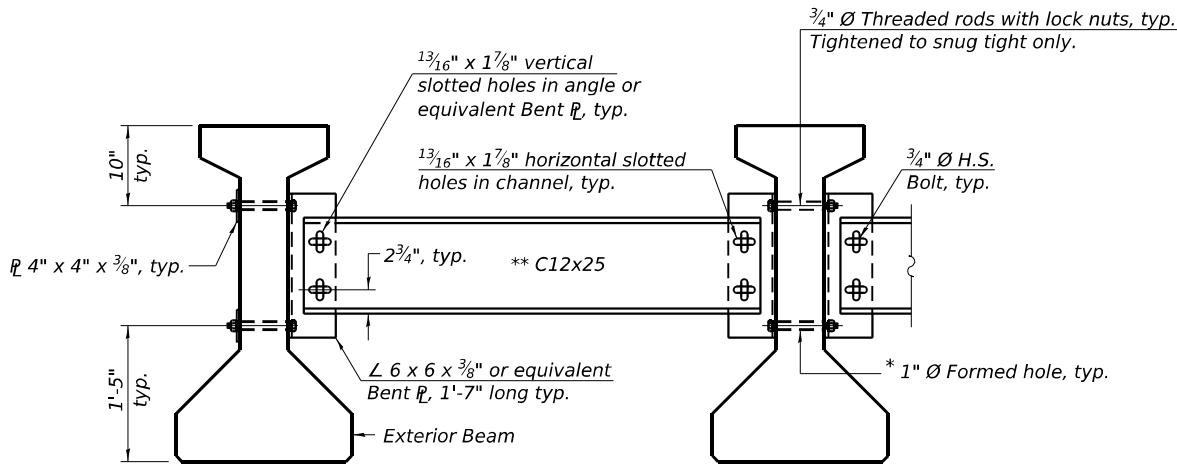
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	CHECKED - PJL	REVISED -
PLOT SCALE = 0:1.9999 " = 1 in.	DRAWN - SJJ	REVISED -
PLOT DATE = 12/2/2025	CHECKED - PJL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" PPC I-BEAM DETAILS 1
STRUCTURE NUMBER 099-8306

SHEET SC-42 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	871
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of oversized holes.

All holes shall be $\frac{15}{16}$ " $\varnothing$ unless otherwise noted. $\frac{5}{16}$ " x 3" x 3" plate washers are required over all slotted holes.

All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.

Threaded rods shall be ASTM F 1554 Grade 55.

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.

- * Fabricator shall locate to miss strands within permissible tolerances.
- ** Alternate C12x30 channels are permitted to facilitate material acquisition.

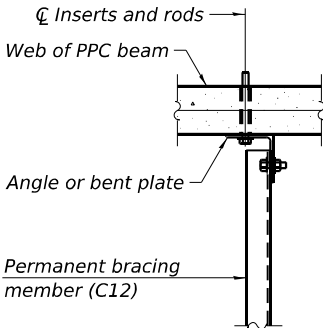
PERMANENT BRACING DETAILS

EXTERIOR BEAM
(Beam 1)

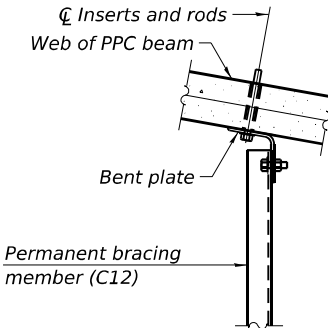
MOMENT TABLE						
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
I	(in ⁴)	90,956	-	90,956	-	90,956
I'	(in ⁴)	331,077	331,077	331,077	331,077	331,077
S _b	(in ³)	5,153	-	5,153	-	5,153
S _b '	(in ³)	9,585	9,585	9,585	9,585	9,585
S _t	(in ³)	3,736	-	3,736	-	3,736
S _t '	(in ³)	44,380	44,380	44,380	44,380	44,380
DC1	(k/')	1.331	-	1.331	-	1.331
M _{DC1}	('k)	531	-	852	-	531
DC2	(k/')	0.113	0.119	0.124	0.128	0.132
M _{DC2}	('k)	25	-47	29	-52	31
DW	(k/')	0.296	0.304	0.311	0.317	0.323
M _{DW}	('k)	68	-121	71	-128	76
LLDF	('k)	0.750	0.730	0.710	0.730	0.750
M _L + IM	('k)	776	-785	775	-785	776

REACTION TABLE							
		S. Abut.	Pier 1 Span 1	Pier 1 Span 2	Pier 2 Span 2	Pier 2 Span 3	N. Abut.
LLDF	(k)	0.690	0.690	0.690	0.690	0.690	0.690
OCF	(k)	-	-	-	-	-	-
R _{DC1}	(k)	38.7	38.7	48.0	48.0	38.7	38.7
R _{DC2}	(k)	2.4	4.3	4.3	4.7	4.7	2.9
R _{DW}	(k)	6.4	11.1	11.1	11.6	11.6	7.0
R _L + IM	(k)	65.0	49.0	49.0	49.0	49.0	63.4
R _{Total (Strength I)(Impact)}	(k)	174.6	156.2	167.8	169.1	157.5	173.4
R _{Total (Strength I)(No Impact)}	(k)	151.5	142.3	154.0	155.3	143.6	151.0

*** At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line



STRAIGHT BEAMS



FLARED BEAMS

PLAN

INTERIOR BEAM

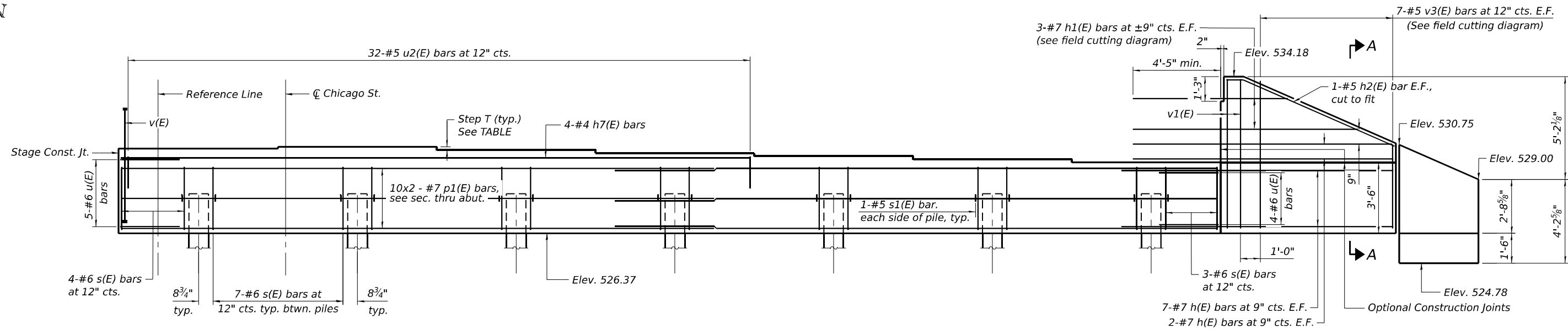
MOMENT TABLE						
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
I	(in ⁴)	90,956	-	90,956	-	90,956
I'	(in ⁴)	337,890	337,890	337,890	337,890	337,890
S _b	(in ³)	5,153	-	5,153	-	5,153
S _b '	(in ³)	9,651	9,651	9,651	9,651	9,651
S _t	(in ³)	3,736	-	3,736	-	3,736
S _t '	(in ³)	48,339	48,339	48,339	48,339	48,339
DC1	(k/')	1.300	-	1.300	-	1.300
M _{DC1}	('k)	521	-	835	-	521
DC2	(k/')	0.113	0.119	0.124	0.128	0.132
M _{DC2}	('k)	25	-47	29	-52	31
DW	(k/')	0.296	0.304	0.311	0.317	0.323
M _{DW}	('k)	68	-121	71	-128	76
LLDF	('k)	0.719	0.696	0.679	0.696	0.719
M _L + IM	('k)	744	-748	742	-748	744

REACTION TABLE							
		S. Abut.	Pier 1 Span 1	Pier 1 Span 2	Pier 2 Span 2	Pier 2 Span 3	N. Abut.
LLDF	(k)	0.825	0.825	0.825	0.825	0.825	0.825
OCF	(k)	-	-	-	-	-	-
R _{DC1}	(k)	38.0	38.0	47.0	47.0	38.0	38.0
R _{DC2}	(k)	2.4	4.3	4.3	4.7	4.7	2.9
R _{DW}	(k)	6.4	11.1	11.1	11.6	11.6	7.0
R _L + IM	(k)	77.7	58.6	58.6	58.6	58.6	75.8
R _{Total (Strength I)(Impact)}	(k)	195.9	172.1	183.3	184.6	173.4	194.3
R _{Total (Strength I)(No Impact)}	(k)	168.3	155.5	166.8	168.1	156.8	167.4

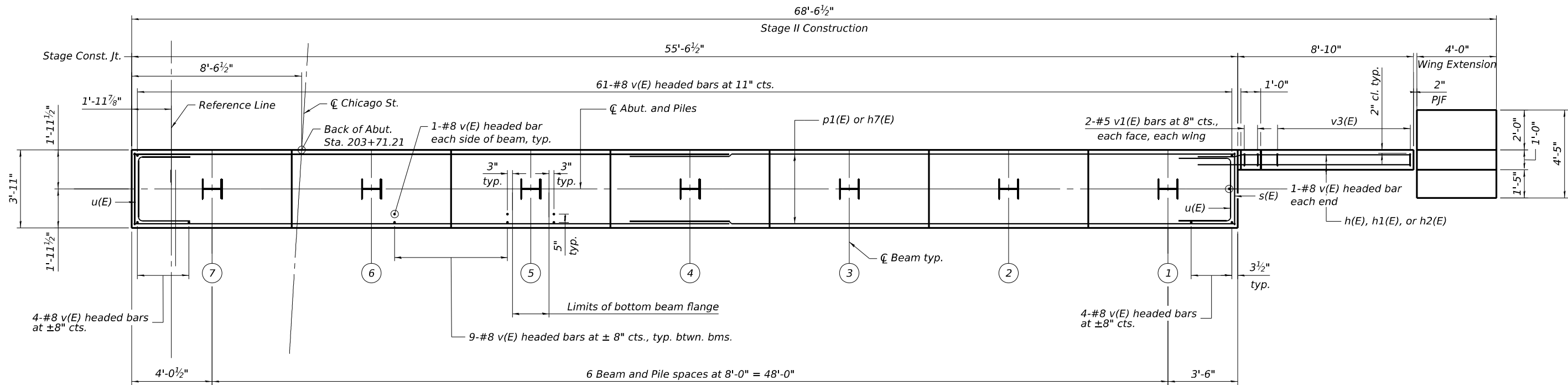
- I: Non-composite moment of inertia of beam section (in.⁴).
- I': Composite moment of inertia of beam section (in.⁴).
- S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
- S_t': Composite section modulus for the top fiber of the prestressed beam (in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
- M_L + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- OCF: Obtuse Correction Factor computed according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
- R_{DC1}: Un-factored reaction due to non-composite dead load (kip).
- R_{DC2}: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
- R_{DW}: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
- R_L: Un-factored live load reaction (kip).
- R_{IM}: Un-factored dynamic load allowance (impact) (kip).
- R_{Total (Strength I)(Impact)}: Total factored reaction including dynamic load allowance (impact) (kip).
- R_{Total (Strength I)(No Impact)}: Total factored reaction not including dynamic load allowance (impact) (kip).

USER NAME = lauxj	DESIGNED - SJJ	REVISED -
CHECKED - KB	REVISED -	
PLOT SCALE = 0:1.9999 "/ in.	DRAWN - SJJ	REVISED -
PLOT DATE = 12/2/2025	CHECKED - KB	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	872
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN

BEARING SEAT
ELEVATIONS

BEAM	BRG. SEAT ELEVATION	STEP - T (Inch)
1	529.87	1 ⁷ / ₈ "
2	530.03	1 ⁷ / ₈ "
3	530.19	1 ⁷ / ₈ "
4	530.35	1 ⁷ / ₈ "
5	530.51	1 ⁷ / ₈ "
6	530.67	1 ⁷ / ₈ "
7	530.59	1"

MINIMUM BAR LAP
#7 bar = 5'-0"

NOTES:

- Pour steps monolithically with cap.
- See sheet SC-48 for Wing Extension Details, Abutment Details and Bill of Material.
- Bars indicated with 10x2-#7, etc. indicates 10 lines of bars with 2 length per line.
- For Section A-A, see sheet SC-48.
- For details of piles, see sheet SC-55.

MODEL: Default
FILE NAME: 0908306-62F94-5045-ABT02.dgn



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

USER NAME	= lauxpj
PLOT SCALE	= 0:1.9999 " = 1" / in.
PLOT DATE	= 12/2/2025

DESIGNED	- KB
CHECKED	- KA
DRAWN	- KB
CHECKED	- KA

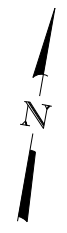
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT 2
STRUCTURE NUMBER 099-8306

SHEET SC-45 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	874
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

ELEVATION

BEARING SEAT
ELEVATIONS

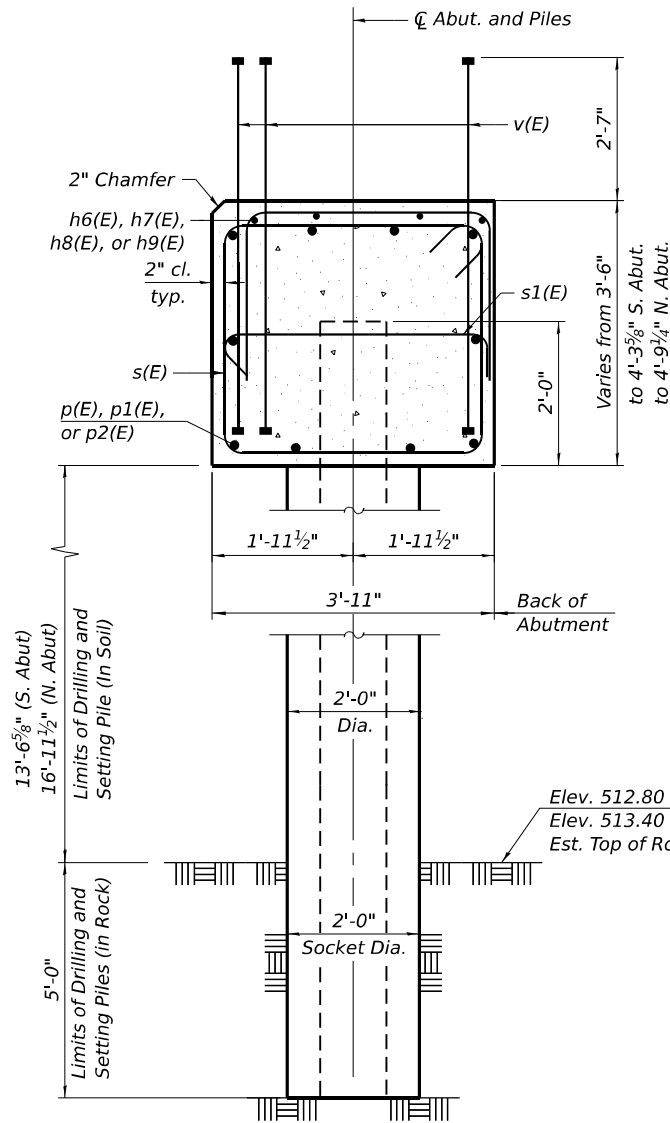
BEAM	BRG. SEAT ELEVATION	STEP
1	534.32	
2	534.48	1 $\frac{7}{8}$ "
3	534.64	1 $\frac{7}{8}$ "
4	534.80	1 $\frac{7}{8}$ "
5	534.96	1 $\frac{7}{8}$ "
6	535.12	1 $\frac{7}{8}$ "
7	535.04	1"

MINIMUM BAR LAP

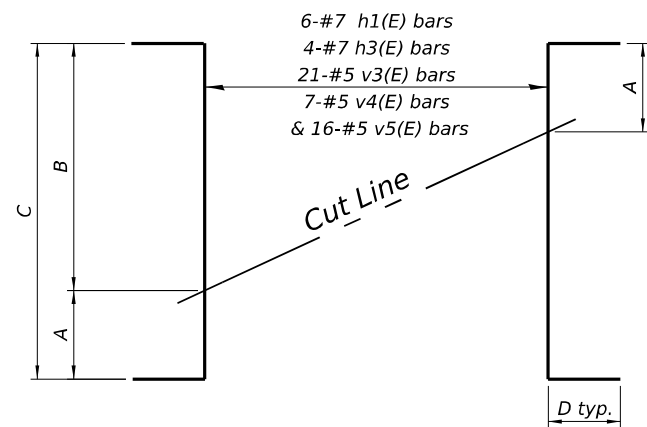
#7 bar = 5'-0"

NOTES:

1. *Pour steps monolithically with cap.*
2. *See sheet SC-48 for Wing Extension Details, Abutment Details and Bill of Material.*
3. *Bars indicated with 10x2-#7, etc. indicates 10 lines of bars with 2 length per line.*
4. *For Section A-A, see sheet SC-48.*
5. *For details of piles, see sheet SC-55.*

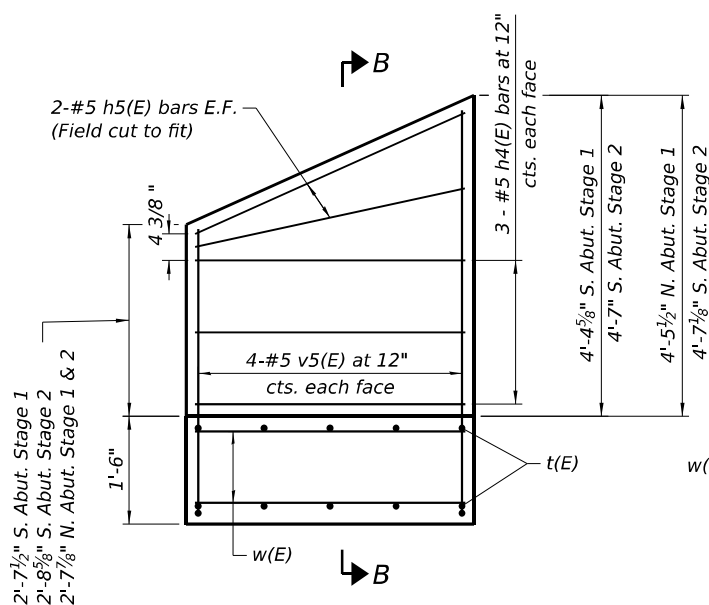


SECT. THRU ABUT.

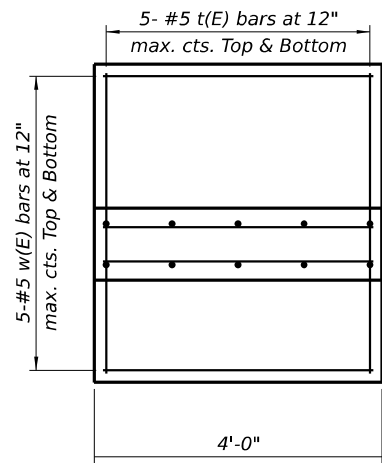


* FIELD CUTTING DIAGRAM

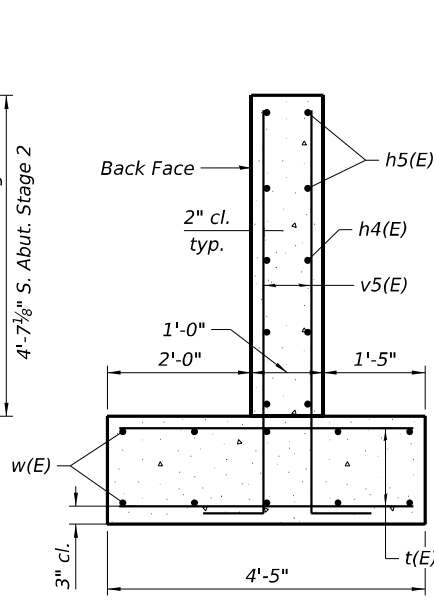
* Order h1(E), h3(E), v3(E), v4(E), and v5(E) full length.
Cut as shown and use remainder of bars in opposite face.



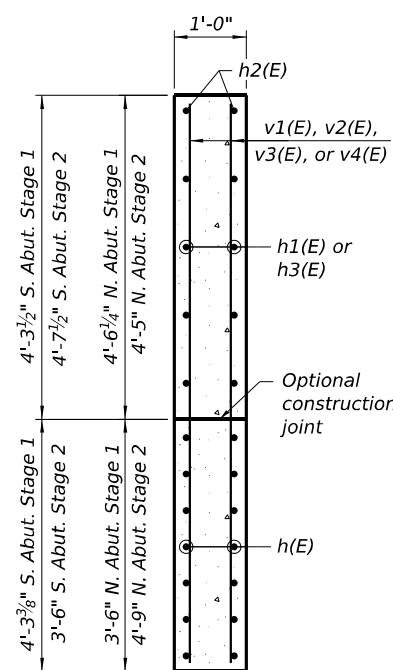
WING EXTENSION - ELEVATION
(The maximum applied service bearing pressure, Qmax = 1.26ksf)



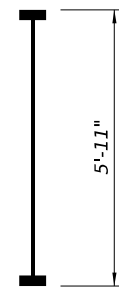
WING EXTENSION - FOOTING PLAN



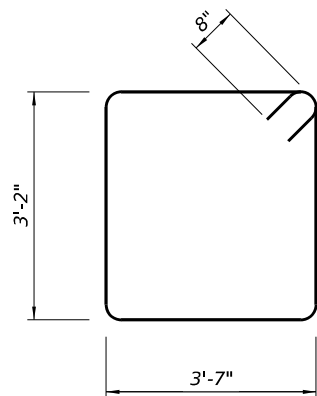
SECTION B-B



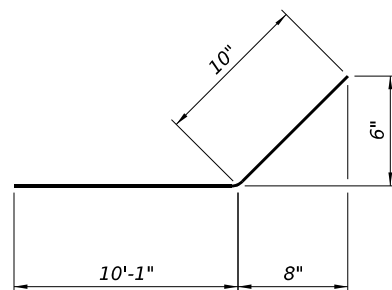
SECTION A-A



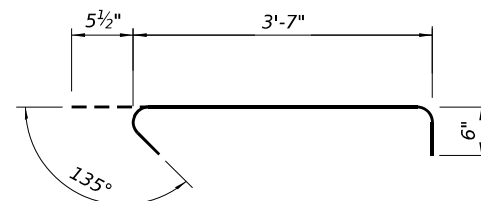
BAR v(E)
(Hheaded 507-#8 Bar Terminators)



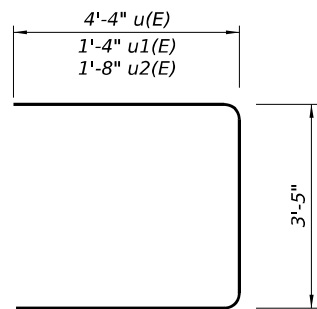
BAR s(E)



BAR h2(E)



BAR s1(E)



BAR u(E), u1(E), & u2(E)

TWO ABUTMENTS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	68	#7	13'-1"	
h1(E)	6	#7	18'-5"	
h2(E)	8	#5	10'-3"	
h3(E)	4	#7	20'-10"	
h4(E)	24	#5	3'-8"	
h5(E)	16	#5	4'-1"	
h6(E)	4	#4	14'-11"	
h7(E)	8	#4	31'-9"	
h8(E)	4	#4	19'-10"	
h9(E)	4	#4	24'-10"	
p(E)	10	#7	33'-6"	
p1(E)	40	#7	30'-1"	
p2(E)	20	#7	31'-5"	
s(E)	202	#6	14'-10"	
s1(E)	56	#5	4'-7"	
t(E)	20	#5	3'-8"	
u(E)	36	#5	12'-1"	
u1(E)	35	#5	6'-1"	
u2(E)	89	#5	6'-9"	
v(E)	507	#8	5'-11"	
v1(E)	12	#5	7'-11"	
v2(E)	4	#5	8'-6"	
v3(E)	21	#5	12'-11"	
v4(E)	7	#5	13'-9"	
v5(E)	16	#5	10'-1"	
w(E)	20	#5	3'-8"	
Structure Excavation			Cu. Yd.	482
Concrete Structures			Cu. Yd.	133.1
Reinforcement Bars			Pound	22,137
Epoxy Coated				
Furnishing Steel Piles, HP 12x63			Foot	630
Granular Backfill for Structures			Cu. Yd.	349
Geocomposite Wall Drain			Sq. Yd.	341
Pipe Underdrains for Structures 4"			Foot	256
Drilling and Setting Pile (In Soil)			Cu. Ft.	1,343
Drilling and Setting Pile (In Rock)			Cu. Ft.	440

NOTES:

1. Bar Terminators paid for separately.
See Total Bill of Material.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NUMBER 099-8306

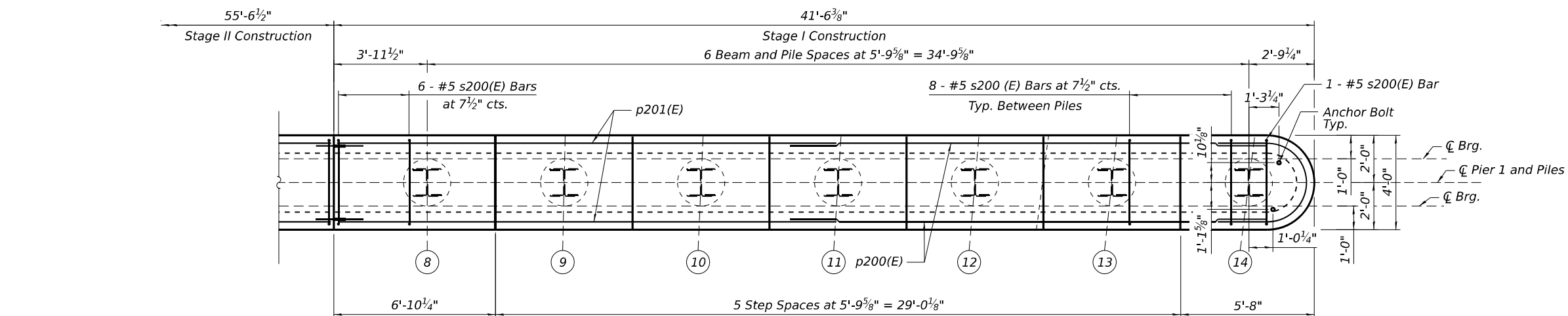
SHEET SC-48 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	877
CONTRACT NO. 62F94				

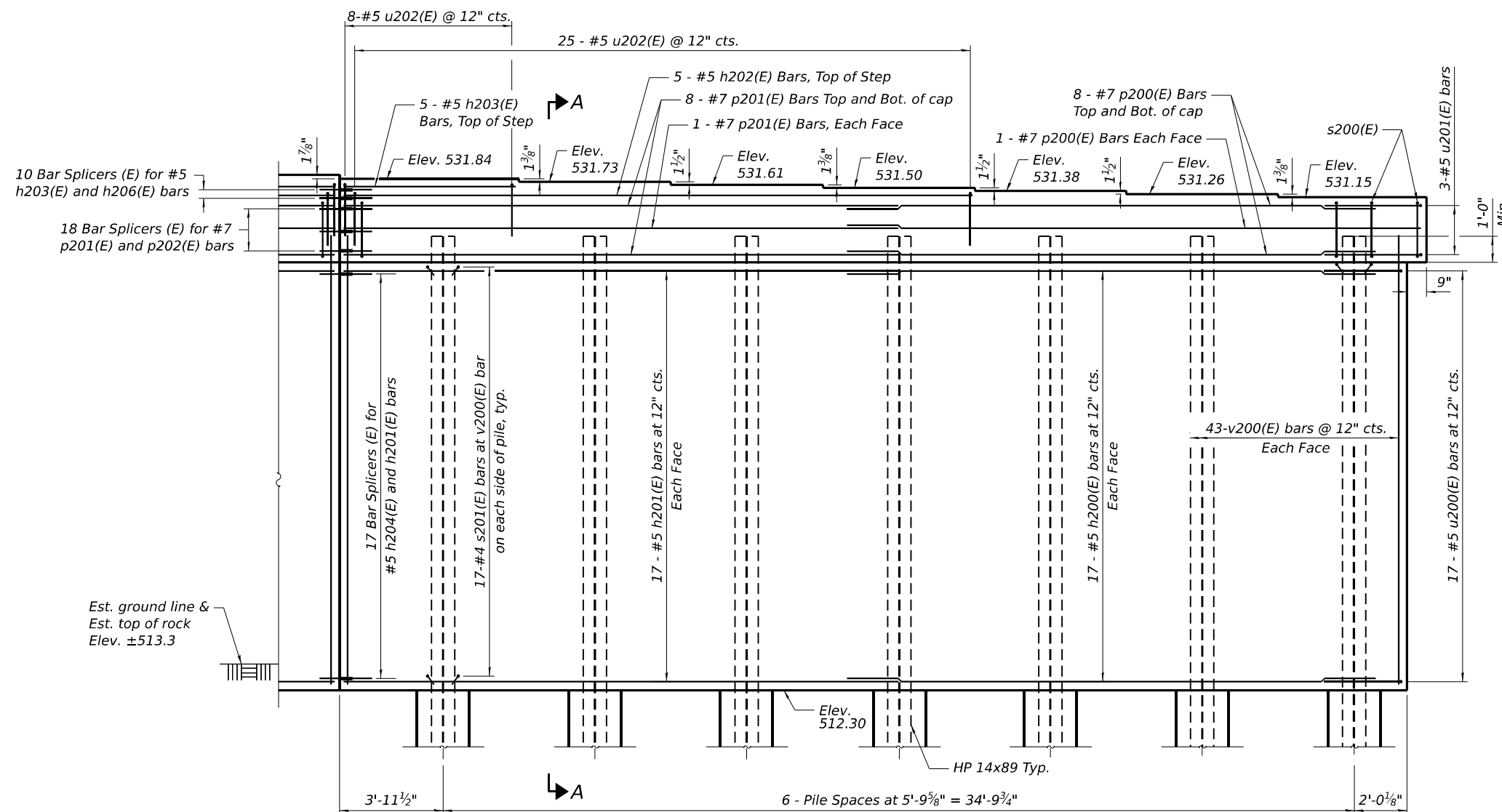
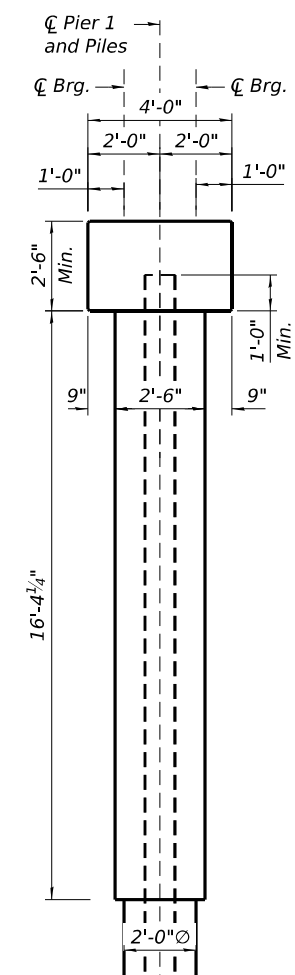
ILLINOIS FED. AID PROJECT

USER NAME = lauxj	DESIGNED - KB	REVISED -
	CHECKED - KA	REVISED -
PLOT SCALE = 0:1.9999 "/ in.	DRAWN - KB	REVISED -
PLOT DATE = 12/2/2025	CHECKED - KA	REVISED -

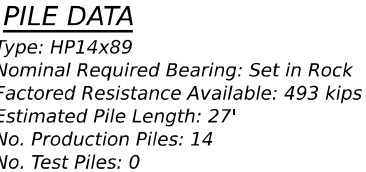
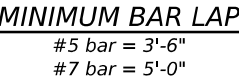


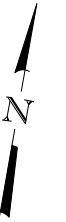


PLAN

ELEVATION

END VIEW



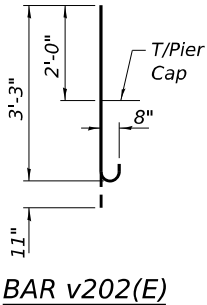
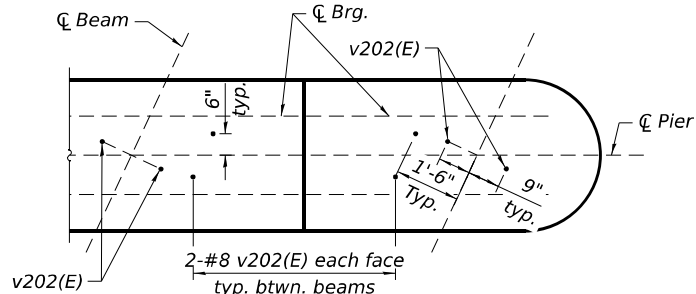
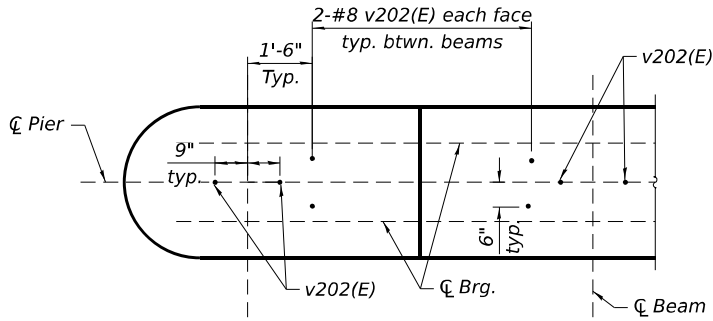
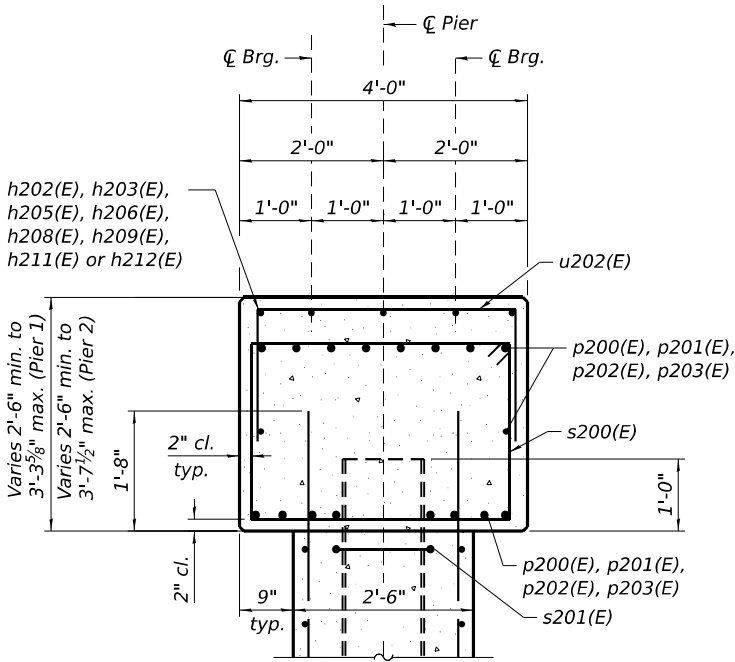


END VIEW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	881
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		

TWO PIERS
BILL OF MATERIAL

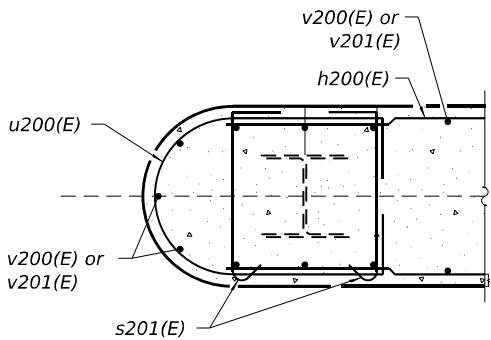
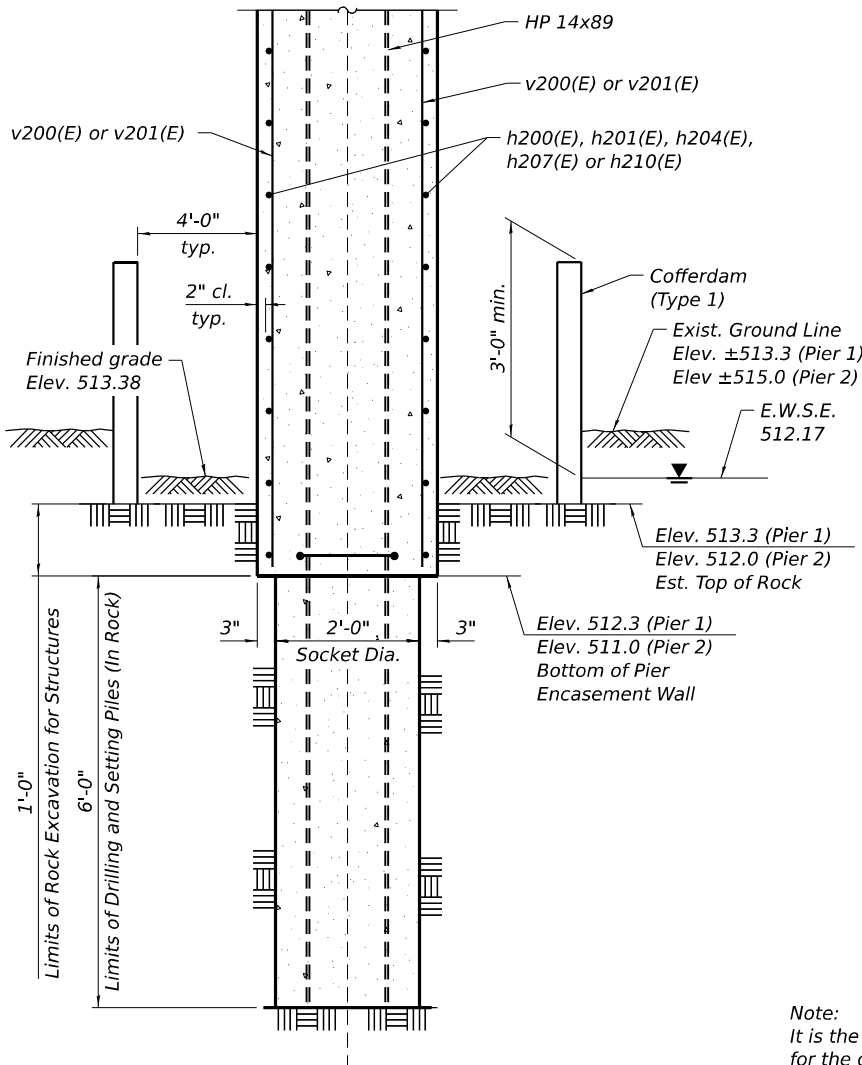
Bar	No.	Size	Length	Shape
h200(E)	148	#5	30'-0"	▬
h201(E)	34	#5	12'-11"	▬
h202(E)	5	#5	23'-11"	▬
h203(E)	5	#5	6'-6"	▬
h204(E)	34	#5	26'-11"	▬
h205(E)	5	#5	19'-4"	▬
h206(E)	10	#5	23'-3"	▬
h207(E)	40	#5	22'-3"	▬
h208(E)	5	#5	29'-5"	▬
h209(E)	5	#5	7'-4"	▬
h210(E)	40	#5	26'-11"	▬
h211(E)	5	#5	27'-4"	▬
h212(E)	10	#5	23'-8"	▬
p200(E)	72	#7	30'-0"	▬
p201(E)	18	#7	14'-5"	▬
p202(E)	36	#7	28'-5"	▬
p203(E)	18	#7	23'-9"	▬
s200(E)	284	#5	12'-7"	▬
s201(E)	1036	#4	3'-2"	▬
u200(E)	74	#5	12'-1"	▬
u201(E)	12	#5	12'-9"	▬
u202(E)	210	#5	5'-8"	▬
v200(E)	200	#5	17'-10"	▬
v201(E)	216	#5	20'-8"	▬
v202(E)	160	#5	4'-2"	▬
Cofferdam Excavation			Cu. Yd.	142
Rock Excavation for Structures			Cu. Yd.	19
Cofferdam (Type 1) (Location - 1)			Each	1
Cofferdam (Type 1) (Location - 2)			Each	1
Concrete Structures			Cu. Yd.	460.1
Reinforcement Bars, Epoxy Coated			Pound	34,420
Furnishing Steel Piles HP14x89			Foot	714
Drilling and Setting Piles in Rock			Cu. Ft.	528



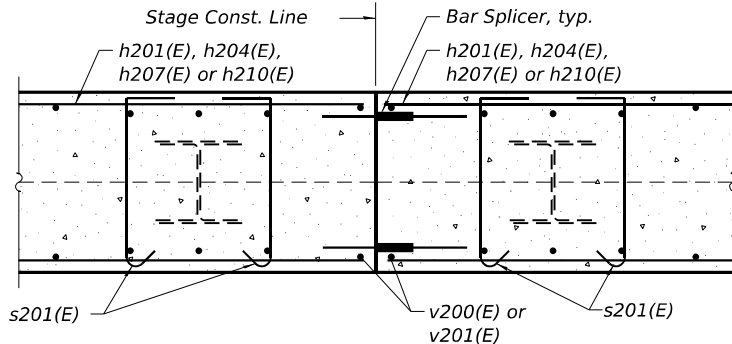
STRAIGHT BEAMS

FLARED BEAMS

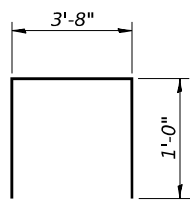
PLAN SHOWING DOWEL LOCATION FOR
DIAPHRAGM



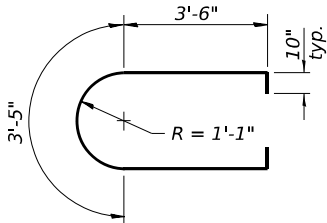
SECTION THRU ENDS OF PIER
BELOW PIER CAP



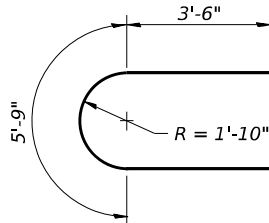
SECTION BELOW PIER CAP AT
STAGE CONSTRUCTION LINE



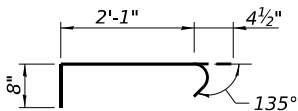
BAR u202(E)



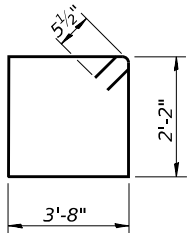
BAR u200(E)



BAR u201(E)



BARS s201(E)



BAR s200(E)

Note:
It is the Contractor's responsibility to provide design for the cofferdam and the required appurtenances, subject to approval of the Engineer.

NOTES:

- For details of piles, see sheet SC-55.
- For details of Bar Splicers, see sheet SC-56.
- For location of Section A-A see sheets SC-49 thru SC-52.
- Cast steps monolithically with cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

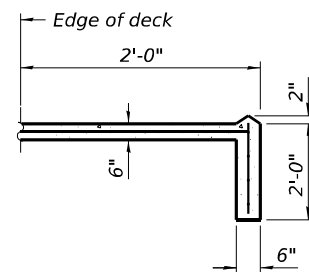
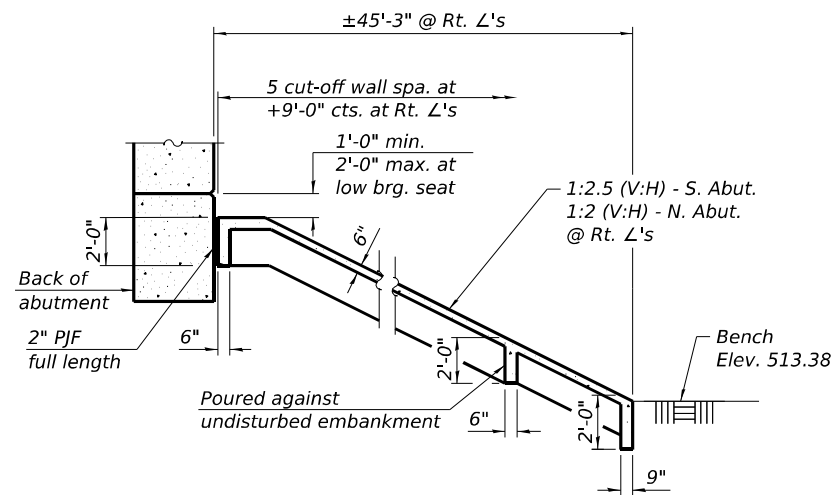
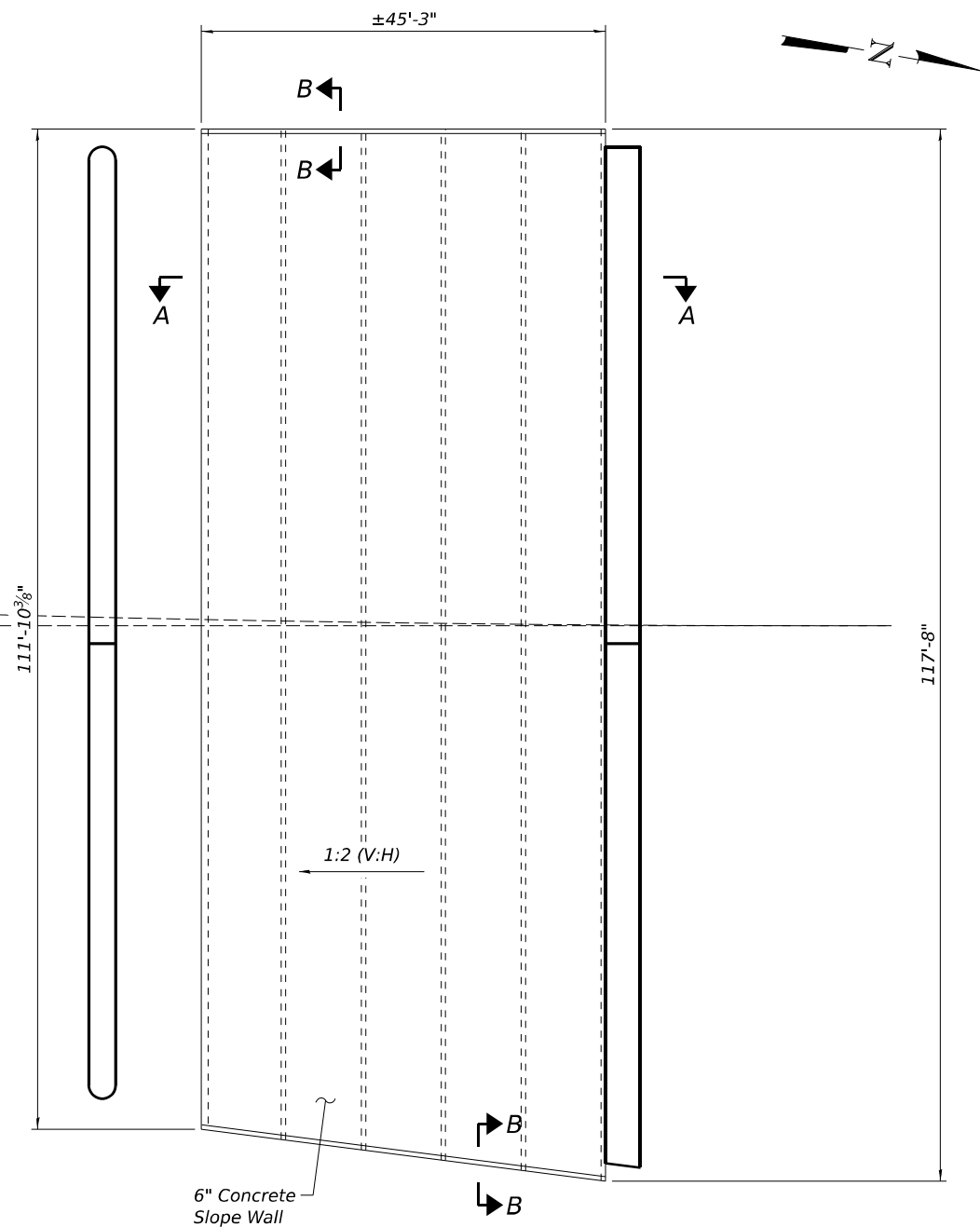
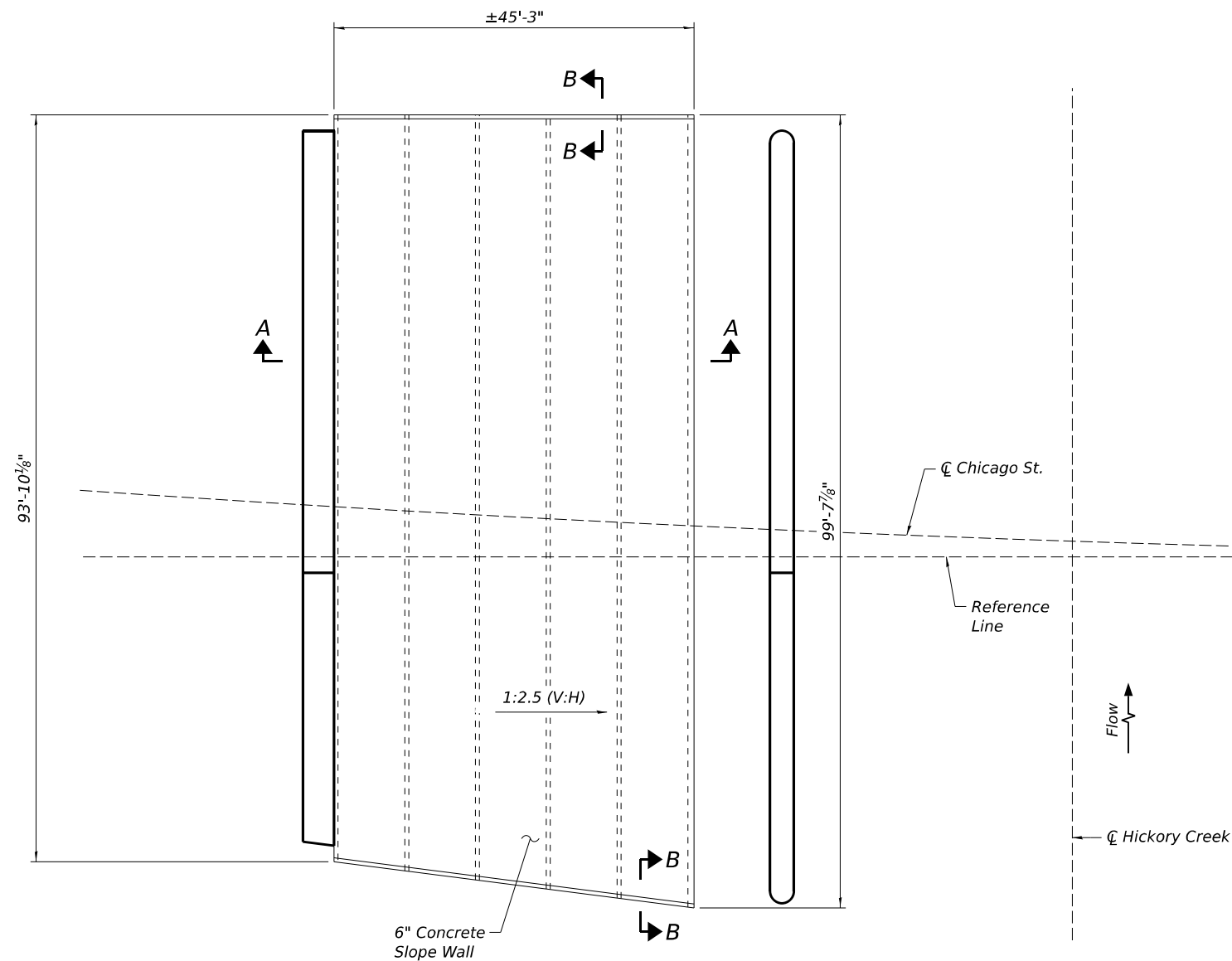
PIER DETAILS
STRUCTURE NUMBER 099-8306

SHEET SC-53 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	882
CONTRACT NO. 62F94				

ILLINOIS FED. AID PROJECT

USER NAME	= lauxj
DESIGNED	- KB
CHECKED	- PJL
PLOT SCALE	= 2:7,9987 "/ in.
DRAWN	- PP
CHECKED	- PJL
PLOT DATE	= 12/2/2025
REVISED	-
REVISED	-
REVISED	-
REVISED	-



SLOPE WALL PLAN
(Dimensions shown are measured horizontal)

- NOTES:**
- Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
 - Reference Line is a Local Tangent at $\angle$ Chicago St. Sta. 205+85.33.
 - See Roadway Plans for additional grading details.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall 6 Inch	Sq. Yd.	1,064

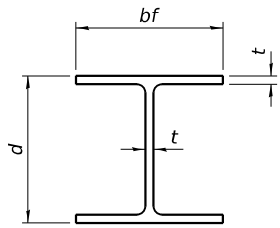
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SLOPE WALL
STRUCTURE NUMBER 099-8306**

SHEET SC-54 OF SC-60 SHEETS

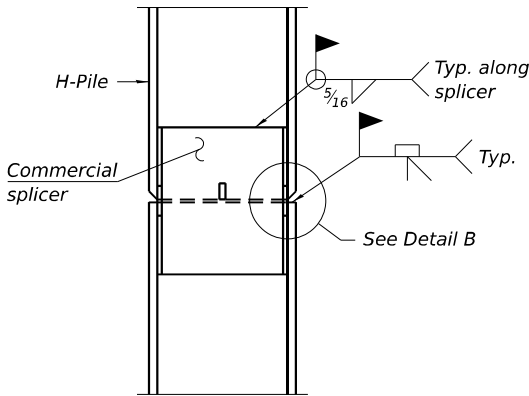
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	883
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

USER NAME = lauxp	DESIGNED - PJL	REVISED -
	CHECKED - LAS	REVISED -
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PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -

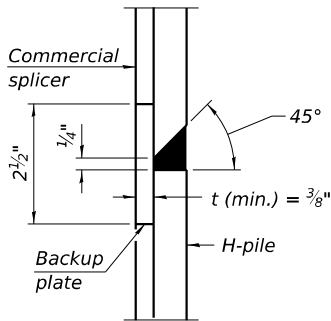


STEEL PILE TABLE

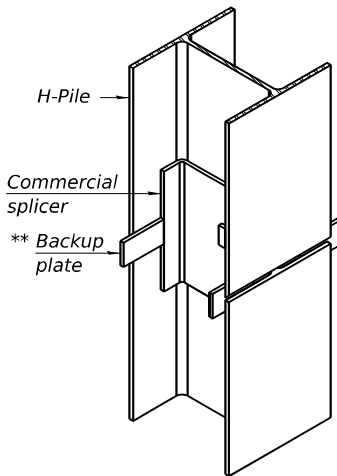
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 18x181	18	18	1	36"
x157	17 ³ / ₄ "	17 ⁷ / ₈ "	⁷ / ₈ "	36"
x135	17 ¹ / ₂ "	17 ³ / ₄ "	³ / ₄ "	36"
HP 16x183	16 ¹ / ₂ "	16 ¹ / ₂ "	1 ¹ / ₈ "	36"
x162	16 ¹ / ₄ "	16 ¹ / ₈ "	1"	36"
x141	16	16	⁷ / ₈ "	36"
x121	15 ³ / ₄ "	15 ⁷ / ₈ "	³ / ₄ "	36"
HP 14x117	14 ¹ / ₄ "	14 ⁷ / ₈ "	¹³ / ₁₆ "	30"
x102	14"	14 ³ / ₄ "	¹¹ / ₁₆ "	30"
x89	13 ⁷ / ₈ "	14 ³ / ₄ "	⁵ / ₈ "	30"
x73	13 ⁵ / ₈ "	14 ⁵ / ₈ "	¹ / ₂ "	30"
HP 12x84	12 ¹ / ₄ "	12 ¹ / ₄ "	¹¹ / ₁₆ "	24"
x74	12 ¹ / ₈ "	12 ¹ / ₄ "	⁵ / ₈ "	24"
x63	12"	12 ¹ / ₈ "	¹ / ₂ "	24"
x53	11 ³ / ₄ "	12"	⁷ / ₁₆ "	24"
HP 10x57	10"	10 ¹ / ₄ "	⁹ / ₁₆ "	24"
x42	9 ³ / ₄ "	10 ¹ / ₈ "	⁷ / ₁₆ "	24"
HP 8x36	8"	8 ¹ / ₈ "	⁷ / ₁₆ "	18"



ELEVATION

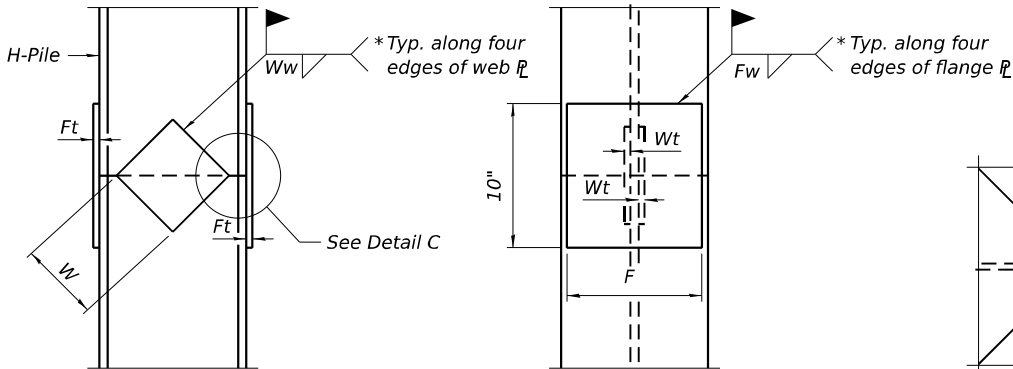


DETAIL B



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



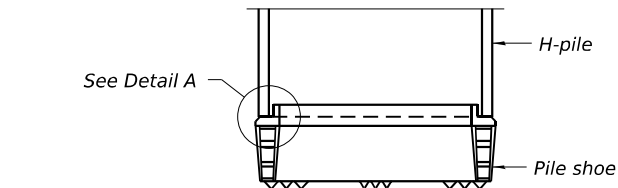
ELEVATION

END VIEW

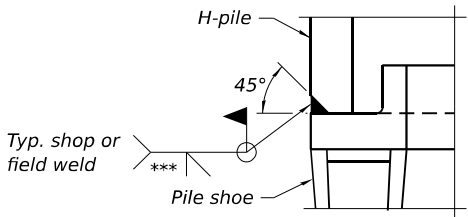
DETAIL C

Designation	F	Ft	Fw	W	Wt	Ww
HP 18x181	15 ¹ / ₂ "	1 ¹ / ₂ "	1"	9 ¹ / ₂ "	⁷ / ₈ "	³ / ₄ "
x157	15 ¹ / ₄ "	1 ¹ / ₄ "	1"	9 ¹ / ₂ "	⁷ / ₈ "	³ / ₄ "
x135	15 ¹ / ₄ "	1 ¹ / ₄ "	1"	9 ¹ / ₂ "	⁷ / ₈ "	³ / ₄ "
HP 16x183	13 ³ / ₄ "	1 ¹ / ₂ "	1"	8 ¹ / ₄ "	⁷ / ₈ "	³ / ₄ "
x162	13 ¹ / ₂ "	1 ¹ / ₂ "	1"	8 ¹ / ₄ "	³ / ₄ "	⁵ / ₈ "
x141	13 ¹ / ₂ "	1 ¹ / ₄ "	⁷ / ₈ "	8 ¹ / ₄ "	³ / ₄ "	⁵ / ₈ "
x121	13 ¹ / ₂ "	1 ¹ / ₄ "	⁷ / ₈ "	8 ¹ / ₄ "	³ / ₄ "	⁵ / ₈ "
HP 14x117	12 ¹ / ₂ "	1 ¹ / ₄ "	⁷ / ₈ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
x102	12 ¹ / ₂ "	1"	³ / ₄ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
x89	12 ¹ / ₂ "	⁷ / ₈ "	¹¹ / ₁₆ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
x73	12 ¹ / ₂ "	³ / ₄ "	⁹ / ₁₆ "	7 ³ / ₄ "	⁵ / ₈ "	¹ / ₂ "
HP 12x84	10"	1"	¹¹ / ₁₆ "	6 ¹ / ₂ "	⁵ / ₈ "	¹ / ₂ "
x74	10"	⁷ / ₈ "	¹¹ / ₁₆ "	6 ¹ / ₂ "	⁵ / ₈ "	¹ / ₂ "
x63	10"	³ / ₄ "	¹ / ₂ "	6 ¹ / ₂ "	¹ / ₂ "	³ / ₈ "
x53	10"	³ / ₄ "	¹ / ₂ "	6 ¹ / ₂ "	¹ / ₂ "	³ / ₈ "
HP 10x57	8"	⁷ / ₈ "	⁹ / ₁₆ "	5 ¹ / ₄ "	¹ / ₂ "	³ / ₈ "
x42	8"	³ / ₄ "	⁹ / ₁₆ "	5 ¹ / ₄ "	¹ / ₂ "	³ / ₈ "
HP 8x36	6 ³ / ₄ "	⁵ / ₈ "	⁷ / ₁₆ "	4"	¹ / ₂ "	³ / ₈ "

WELDED PLATE FIELD SPLICE

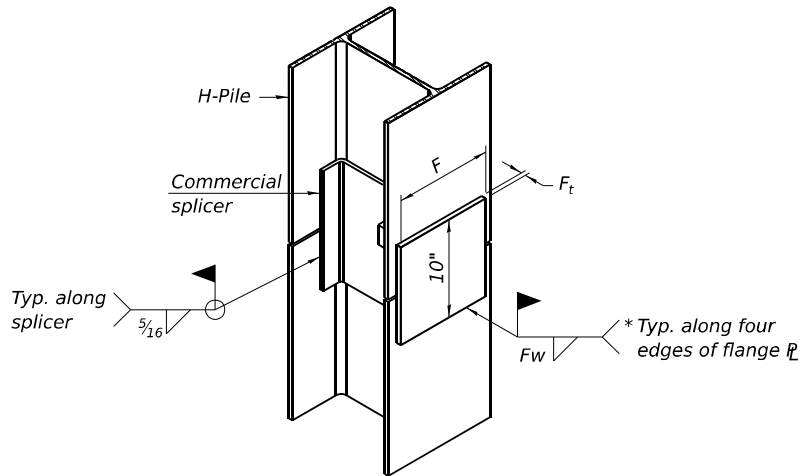


ELEVATION



DETAIL A

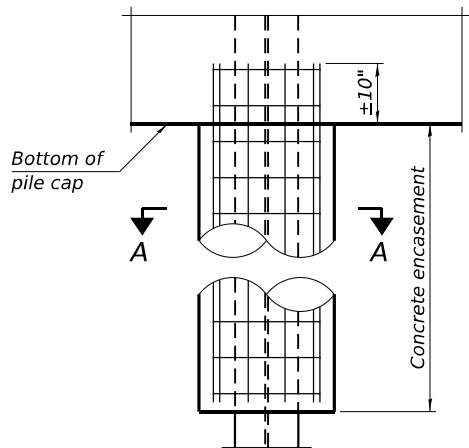
SHOE ATTACHMENT



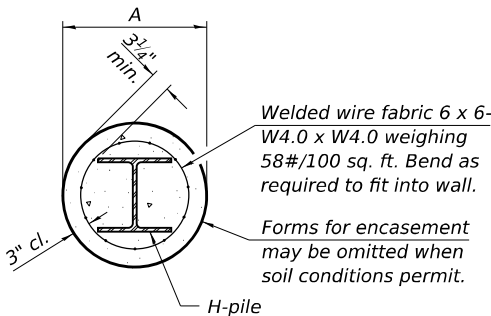
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds ¹/₄" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (⁵/₁₆" min.).



ELEVATION



SECTION A-A

INDIVIDUAL PILE
CONCRETE ENCASUREMENT
(when specified)

Note:
The steel H-piles shall be according to
AASHTO M270 Grade 50.

F-HP

10-27-2023

MODEL: Default
FILE NAME: C:\0908306\62F94-S055-FHP.dgn

WSP

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

USER NAME	= lauxp
PLOT SCALE	= 0:1.9999 " = 1" / in.
PLOT DATE	= 12/2/2025

DESIGNED	- BK
CHECKED	- LAS
DRAWN	- BK
CHECKED	- LAS

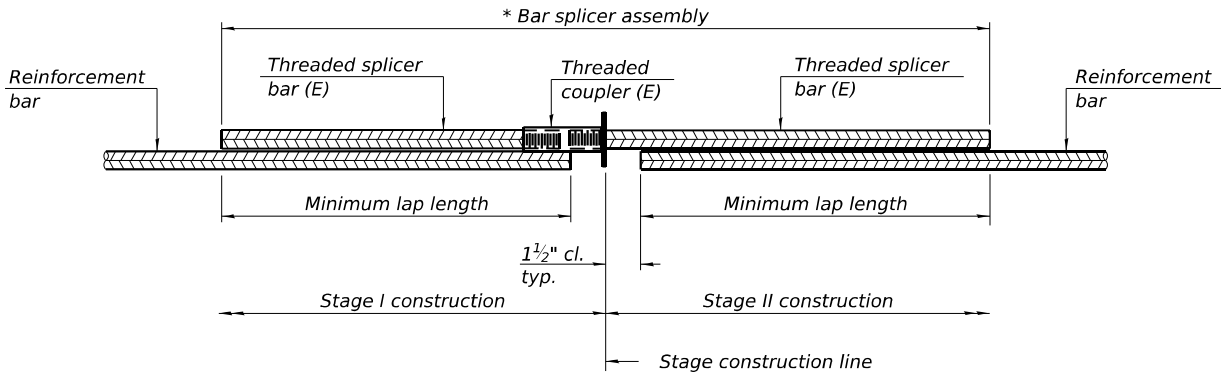
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NUMBER 099-8306

SHEET SC-55 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	884
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



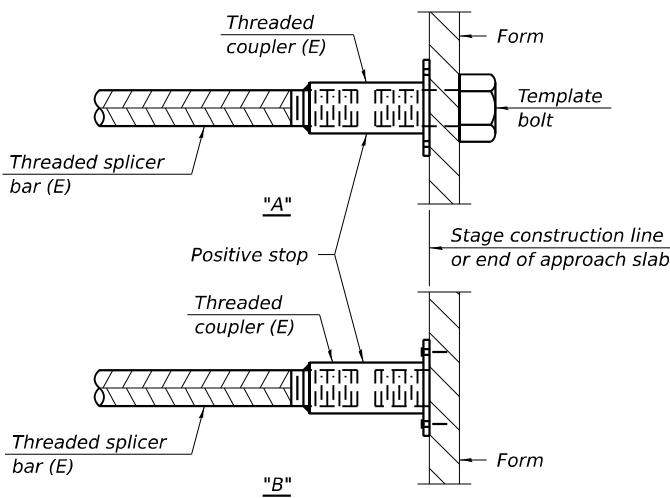
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck (Top Slab)	#5	451	3'-6"
Deck (Bottom Slab)	#5	247	3'-6"
S. Abut. Diaphragm	#6	7	4'-9"
Pier 1 Diaphragm	#6	8	4'-9"
Pier 2 Diaphragm	#6	8	4'-9"
N. Abut. Diaphragm	#6	7	4'-9"
S. Approach Slab (Top)	#5	46	3'-6"
S. Approach Slab (Bottom)	#8	60	4'-9"
S. Approach Footing	#5	40	3'-6"
N. Approach Slab (Top)	#5	46	3'-6"
N. Approach Slab (Bottom)	#8	60	4'-9"
N. Approach Footing	#5	40	3'-6"
S. Abutment	#7	10	5'-0"
N. Abutment	#7	10	5'-0"
Pier 1 Cap	#5	10	3'-6"
Pier 1 Cap	#7	18	5'-0"
Pier 1 Encasement Wall	#5	34	3'-6"
Pier 2 Cap	#5	10	3'-6"
Pier 2 Cap	#7	18	5'-0"
Pier 2 Encasement Wall	#5	40	3'-6"

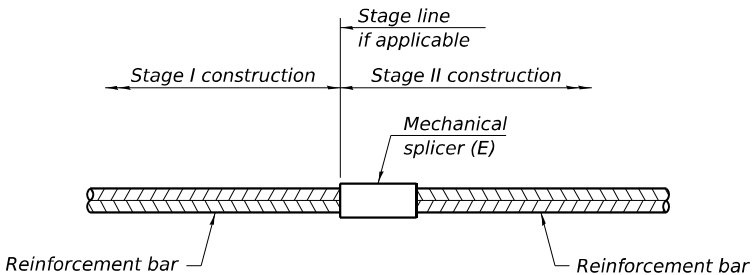


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

5-15-2023

MODEL: Default
FILE NAME: 0998306-62F94-5056-BSD.dgn



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

USER NAME = [auxj]	DESIGNED - BK	REVISED -
	CHECKED - LAS	REVISED -
PLOT SCALE = 0:1.9999 " = 1" / in.	DRAWN - BK	REVISED -
PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER ASSEMBLY
STRUCTURE NUMBER 099-8306

SHEET SC-56 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	885
CONTRACT NO. 62F94				
		ILLINOIS	FED. AID PROJECT	

SHEET INTENTIONALLY LEFT BLANK

MODEL: Default
FILE NAME: 0998306-62F94-S057.SEP.dgn

WSP WSP USA Inc. 30 N. LA SALLE STREET SUITE 4200 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1684	USER NAME = [auxp]	DESIGNED - BK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BLANK SHEET STRUCTURE NUMBER 099-8306	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - LAS	REVISED -			0846	2017-057F	WILL	1342	886
	PLOT SCALE = 0:1.9999 '"/ in.	DRAWN - BK	REVISED -			CONTRACT NO. 62F94				
	PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -			ILLINOIS FED. AID PROJECT				
	SHEET SC-57 OF SC-60 SHEETS									



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

SOIL BORING LOG

Page 1 of 1

Date 4/15/22

ROUTE I-80 DESCRIPTION IL 53/US 52 (Chicago Street) over Hickory Creek LOGGED BY DD

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

Latitude 41.5101026, Longitude -88.08144792

COUNTY Will DRILLING RIG CME-75 DRILLING METHOD HSA HAMMER TYPE Auto 91

STRUCT. NO. 099-8306 DEPTHS M O I S T

Station 206+36.2914 H S Qu

BORING NO. BSB-69

Station 206+36.2914

Offset 68.43ft LT

Ground Surface Elev. 535.39 ft (ft) (/6") (tsf) (%)

4 inches of Asphalt 535.06

10 inches of Concrete 534.39

Brown, Moist 7

FILL: SILTY CLAY, trace sand and gravel 6 1.5 8

532.39

Loose 5

Gray, Moist 6

SAND, trace gravel (SP) 4

5

9

4

5

6

3

6

10

524.39

Medium Dense 25

Brown, Dry to Moist 11

GRAVEL, with sand (GPS) 11

Cobbles at 11 feet

3

19

2

15

519.39

Very Loose 2

Dark Brown, Very Moist 1

SANDY LOAM (SM) 2

516.89

1

2

0.2

4

63

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

SOIL BORING LOG

Page 1 of 1

Date 5/26/22

ROUTE I-80 DESCRIPTION IL 53/US 52 (Chicago Street) over Hickory Creek LOGGED BY KA

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

Latitude 41.50976506, Longitude -88.08131999

COUNTY Will DRILLING RIG CME-75 DRILLING METHOD HSA HAMMER TYPE Auto 91

STRUCT. NO. 099-8306 DEPTHS M O I S T

Station 205+8.3729 H S Qu

BORING NO. BSB-70

Station 205+8.3729

Offset 47.18ft LT

Ground Surface Elev. 533.80 ft (ft) (/6") (tsf) (%)

10 inches of Concrete Bridge 532.96

Deck 532.96

19 feet 11 inches of Air Void / 513.05

Casing 512.80

3 inches of Gravel

Light Gray

LIMESTONE, slightly weathered,

heavily fractured, some vugs,

some sand from 21 to 22 feet

Run 1: 21' - 26.2'

Recovery: 100.0%

RQD: 23.8% (Poor)

507.55

Light Gray

LIMESTONE, slightly weathered,

heavily fractured, some vugs,

vertical fractures at 27, 29.5, 33

and 34.5 feet, trace silt 32 feet

Run 2: 26.2' - 36.2'

Recovery: 100.0%

RQD: 30.8% (Poor)

497.55

End of Boring

497.55

497.55

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

SOIL BORING LOG

Page 1 of 1

Date 6/6/22

ROUTE I-80 DESCRIPTION IL 53/US 52 (Chicago Street) over Hickory Creek LOGGED BY DD

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

Latitude 41.5095463, Longitude -88.08124221

COUNTY Will DRILLING RIG CME-75 DRILLING METHOD HSA HAMMER TYPE Auto 91

STRUCT. NO. 099-8306 DEPTHS M O I S T

Station 204+28.2390 H S Qu

BORING NO. BSB-71

Station 204+28.2390

Offset 33.66ft LT

Ground Surface Elev. 534.86 ft (ft) (/6") (tsf) (%)

9.5 inches of Concrete Bridge 534.07

Deck 534.07

20 feet 4 inches of Air Void / 513.74

Casing (continued) 513.74

Light Gray

LIMESTONE, moderately

weathered, heavily to moderately

fractured, some vugs, trace sand

Run 1: 21.1' - 31.1'

Recovery: 100.0%

RQD: 70.4% (Fair)

503.74

Light Gray

LIMESTONE, slightly weathered,

moderately fractured, some vugs,

trace silt

Run 2: 31.1' - 36.1'

Recovery: 100.0%

RQD: 73% (Good)

498.74

End of Boring

498.74

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MODEL: Default
FILE NAME: 0998306-62F94-5058-5801.dgn



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

USER NAME = laurajj
DESIGNED - BK
CHECKED - LAS
PLOT SCALE = 1.9999" / in.
DRAWN - BK
PLOT DATE = 12/2/2025
CHECKED - LAS

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
STRUCTURE NUMBER 099-8306

SHEET SC-58 OF SC-60 SHEETS

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
0846 2017-057F WILL 1342 887
CONTRACT NO. 62F94
ILLINOIS FED. AID PROJECT

Illinois Department of Transportation

Division of Highways
GSD Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 4/14/22

ROUTE I-80 DESCRIPTION IL 53/US 52 (Chicago Street) over Hickory Creek LOGGED BY EH

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

Latitude 41.50936113, Longitude -88.08119976

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

STRUCT. NO. 099-8306

Station

BORING NO. BSB-72

Station 203+57.6629

Offset 24.78R LT

Ground Surface Elev. 531.26 ft

D E P T H S	B L O W S H	U C S C o d e	M O I S T U r e
(ft)	(blf)	(tsf)	(%)
3 inches of Asphalt	531.01		
9 inches of Concrete	530.26		
Brown, Black and Gray, Moist	6		
HILL SILTY CLAY, with sand and gravel, trace organics	9	3.0	13
	7	P	
527.76			
Medium Dense	5		
Brown, Moist	10		7
SAND, trace gravel (SP)	8		
-5			
Cobbles at 6 feet	50/3"		
		NR	
522.76			
Stiff	6		
Brown, Moist	5		13
SILTY CLAY, trace sand and gravel (CL/ML)	8		
-10			
	5		
	3	1.0	22
	2	P	
	5		
	15	1.0	14
	50/0"	P	
-15			
▼	50/5"		
		NR	
512.76			
Auger refusal at 18.5 feet			
End of Boring			
-20			

Surface Water Elev. N/A ft

Stream Bed Elev. N/A ft

Groundwater Elev.:

First Encounter 515.3 ft ▼

Upon Completion N/A 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)

BR5, form 137 (Rev. 8-99)

Illinois Department of Transportation

Division of Highways
GSO Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 4/14/22

ROUTE I-80 DESCRIPTION IL 53/US 52 (Chicago Street) over Hickory Creek LOGGED BY EH

SECTION C-91-109-22

LOCATION SEC. 15, TWP. 35 N, RNG. 10 E

Latitude 41.51016001, Longitude -88.08125951

COUNTY Will

DRILLING RIG

Diedrich D-50

HAMMER TYPE

Auto

DRILLING METHOD

HSA

HAMMER EFF (%)

98

STRUCT. NO. 099-8306

Station

BORING NO. BSB-73

Station 206+50.6377

Offset

Ground Surface Elev. 539.37

D

E

P

T

H

S

(ft)

(/ft)

(tsf)

(%)

B

L

O

W

S

Qu

(ft)

(/ft)

(tsf)

(%)

M

O

I

S

T

(ft)

(/ft)

(tsf)

(%)

Surface Water Elev. N/A ft

Stream Bed Elev. N/A ft

Groundwater Elev.: Dry ft

First Encounter N/A ft

Upon Completion N/A ft

After Hrs. N/A ft

D

E

P

T

H

S

(ft)

(/ft)

(tsf)

(%)

B

L

O

W

S

Qu

(ft)

(/ft)

(tsf)

(%)

3 inches of Asphalt 539.12

11 inches of Concrete 538.20

Brown and Gray, Moist 13

FILL - SAND AND GRAVEL 13

6

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

Illinois Department of Transportation

Division of Highways
CSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/7/22

ROUTE I-80 DESCRIPTION I-53/US 52 (Chicago Street) over Hickory Creek LOGGED BY KA

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

Latitude 41.5097993, Longitude -88.08111255

COUNTY Will DRILLING RIG CME-75 HAMMER TYPE Auto 91

DRILLING METHOD HSA HAMMER EFF (%)

STRUCT. NO. 099-8306 Station D E B U
P L O C
T O W S H S Qu I
S T

BORING NO. BSB-74 Station 205+9.3110' Offset 11.23ft RT

Ground Surface Elev. 535.50 ft (ft) (6") (tsf) (%)

10 inches of Concrete Bridge Deck 534.67

22 feet 6 inches of Air Void / Casing

22 feet 6 inches of Air Void / Casing

Light Gray Limestone, moderately weathered, heavily fractured, some vugs, some clay seams at 23.8 feet, 26.3 feet

Run 1: 23.3' - 28.6' Recovery: 100.0% RQD: 13.8% (Very Poor)

Light Gray Limestone, slightly weathered, heavily fractured, some vugs, vertical fractures at 36 feet and 37.5 feet

Run 2: 28.6' - 38.6' Recovery: 100.0% RQD: 11.3% (Very Poor)

End of Boring

512.17

506.92

496.92

End of Boring

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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 T200)

BSB, form 137 (Rev. 8-99)



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

SOIL BORING LOG

Page 1 of 1

Date 5/31/22

ROUTE I-80 DESCRIPTION IL 53/US 52 (Chicago Street) over Hickory Creek LOGGED BY KA

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

Latitude 41.5095739, Longitude -88.08106028

COUNTY Will DRILLING RIG CME-79 HAMMER TYPE Auto

DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. 099-8306 DEPTH B L O W S Qu M O I S T

Station 204+29.2083

Offset 18.26ft RT

Ground Surface Elev. 536.20 ft (ft) (/6") (tsf) (%)

Surface Water Elev. N/A ft

Stream Bed Elev. N/A ft

Groundwater Elev.: Dry ft

First Encounter N/A ft

Upon Completion N/A ft

After Hrs. N/A ft (ft) (/6") (tsf) (%)

10 inches of Concrete Bridge Deck 535.39

21 feet 6 inches of Air Void / Casing

513.86

Light Gray LIMESTONE, slightly weathered, heavily to moderately fractured, some vugs, trace sand, trace chert

Run 1: 22.3' - 32.3' Recovery: 100.0% RQD: 37.1% (Poor)

503.86

Light Gray LIMESTONE, slightly weathered, moderately fractured, some vugs, trace sand

Run 2: 32.3' - 37.3' Recovery: 100.0% RQD: 63.3% (Fair)

498.86

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 4/15/22

ROUTE I-80 DESCRIPTION IL 53/US 52 (Chicago Street) over Hickory Creek LOGGED BY EH

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

Latitude 41.50939575, Longitude -88.08103339

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto

DRILLING METHOD HSA HAMMER EFF (%) 98

STRUCT. NO. 099-8306 DEPTH B L O W S Qu M O I S T

Station 203+67.9444

Offset 21.37ft RT

Ground Surface Elev. 533.77 ft (ft) (/6") (tsf) (%)

Surface Water Elev. N/A ft

Stream Bed Elev. N/A ft

Groundwater Elev.: Dry ft

First Encounter N/A ft

Upon Completion N/A ft

After Hrs. N/A ft (ft) (/6") (tsf) (%)

3 inches of Asphalt 533.52

10 inches of Concrete 532.68

Brown and Gray, Moist

FILL: SILTY CLAY, with gravel

530.27

Medium Dense Brown, Dry to Moist SAND, with gravel (SPG)

Run 1: 18.5' - 28.5' Recovery: 90.0% RQD: 69.0% (Fair) (continued)

505.27

Light Gray LIMESTONE, slightly weathered, moderately to heavily fractured, some vugs, vertical fractures at 23.5 feet

Run 2: 28.5' - 33.5' Recovery: 100.0% RQD: 60.0% (Fair)

500.27

Medium Stiff Brown, Moist SILTY CLAY, trace sand and gravel (CL-ML)

End of Boring

517.77

Very Dense Brown, Moist SANDY LOAM, with gravel (SM)

515.27

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 3
STRUCTURE NUMBER 099-8306

SHEET SC-60 OF SC-60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0846	2017-057F	WILL	1342	889
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



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

USER NAME = [auxp]	DESIGNED - BK	REVISED -
	CHECKED - LAS	REVISED -
PLOT SCALE = 1.9999" / in.	DRAWN - BK	REVISED -
PLOT DATE = 12/2/2025	CHECKED - LAS	REVISED -

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.

Begin Ex. Ret. Wall 1
(SN 099-W035)
(Contract 60W35)

End Ex. Retaining Wall (SN 099-W035)
(Contract 60W35)

Begin Retaining Wall
(Contract 62F94)
Sta. 717+20.00

End Retaining Wall
(Contract 62F94)
Sta. 716+00.00

Bridge MSE Wall (SN 099-0903)
See SA sheets

Measured along
F.F. of wall

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

DESIGN STRESSES

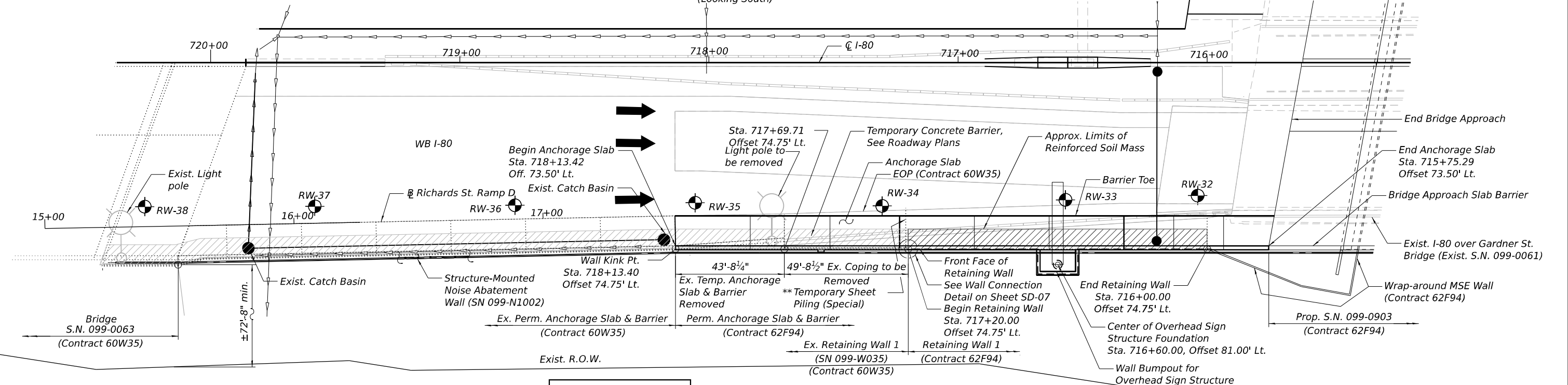
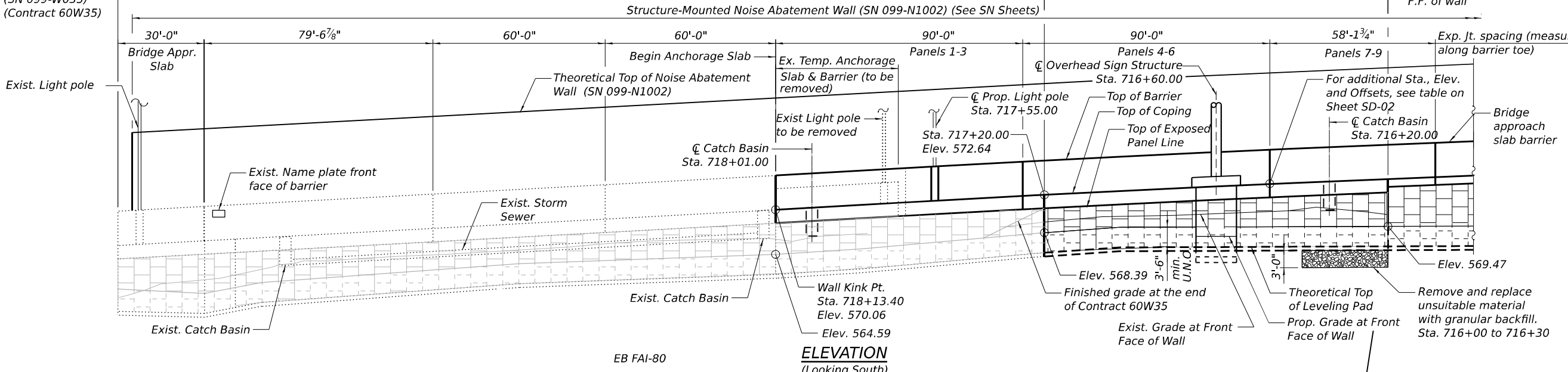
FIELD UNITS
 $f'_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS
 $f'_c = 4,500$ psi (Precast Panels)

DESIGN LOADS

NOISE ABATEMENT WALL LOADING
Unfactored Dead Load = 65 psf
Factored Strength III or V Wind: 35 psf
Factored Service I Wind: 15 psf
Max. Wall Ht. Above T/Parapet = 12'-0"

RETAINING WALL
The MSE Wall supplier shall consider internal and external stability design accounting for the Anchorage Slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 2.4 kips/ft. of wall.



- LEGEND**
- Approximate Limits of Prop. Reinforced Soil Mass
 - Prop. Storm Sewer
 - Prop. Catch Basin
 - Exist. Storm Sewer
 - Soil Boring

Notes:
1. Stations and offsets are measured relative to $\angle$ I-80 at the front face of retaining wall.
2. See Bridge Plans for details and payment.

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

EXP

STATE OF ILLINOIS

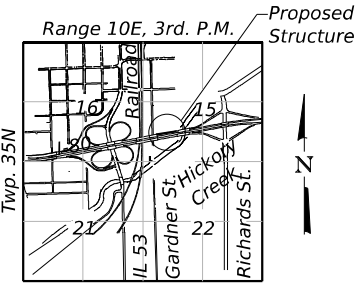
MAENA A. FARHAT
081.008545

DATE SIGNED: 10/31/2025
MAENA A. FARHAT, PHD, P.E., S.E.
NO. 081-008545
EXP. DATE: 11/30/2026

SEAL AND SIGNATURE APPLY TO:
SHEETS 1 - 11

PLAN

** Temporary Sheet Piling (Special) will be partially removed if required to facilitate work.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
RETAINING WALL 1, WB I-80
F.A.I. RTE. 80 - SEC. 2017-057F
WILL COUNTY
STATION 716+00.00 TO STA. 717+20.00
STRUCTURE NO. 099-W035

	USER NAME =			DESIGNED - BAR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 099-W035 (WB)			F.A.I. RTE. 80	SECTION 2017-057F	COUNTY WILL	TOTAL SHEETS 1342	SHEET NO. 890
	PLOT SCALE =			DRAWN - MTR	REVISED -		SHEET SD-01 OF SD-11 SHEETS			CONTRACT NO. 62F94				
	PLOT DATE =			CHECKED - BAR	REVISED -					ILLINOIS FED. AID PROJECT				

MODEL: DEFAULT
FILE NAME: C:\TRANSPORT\LOCAL\TRANSPORTS\PW-01\DM520863\099W035-62F94-001-GPE.DGN
10-27-2025, 16:53:08

INDEX OF SHEETS

SD-01	General Plan and Elevation
SD-02	General Data
SD-03	Detailed Plan and Elevation 1
SD-04	Detailed Plan and Elevation 2
SD-05	Detailed Plan and Elevation 3
SD-07	Wall Details 1
SD-06	Wall Details 2
SD-08	Wall Details 3
SD-09	Soil Boring Logs 1
SD-10	Soil Boring Logs 2
SD-11	Soil Boring Logs 3

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Cast frame into Anchorage Slab and form opening to structure.
3. Slipforming of the barrier is not allowed.
4. The proposed wall panels shall match the existing panel height, width, spacing, color and finish.

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Remove existing temporary anchorage slab, temporary barrier and lighting.
2. Excavate for proposed MSE wall construction. Utilize existing temporary sheeting at west end of existing MSE wall. Remove portion of sheeting 1' below proposed anchorage slab.
3. Construct MSE wall during Stage II WB with the wrap-around MSE wall of adjacent bridge SN 099-0903 prior to constructing the East approach slab of the bridge.
4. Construct anchorage slab and barrier.

SHOULDER CROSS SLOPES

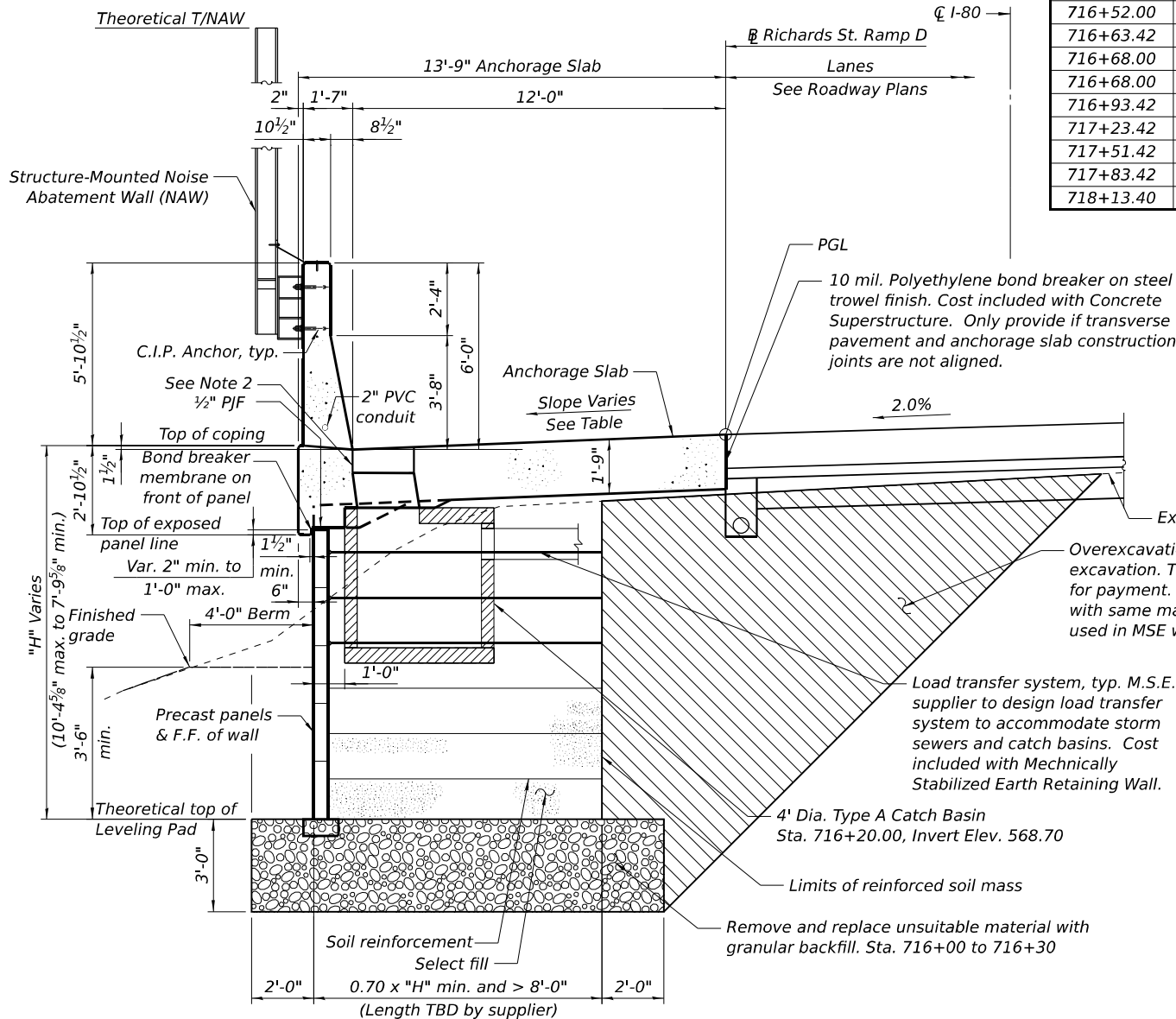
I-80 Sta.	Width	Slope
715+75.29	12'-0"	-2.00%
716+36.00	12'-0"	-4.00%
719+48.00	12'-0"	-4.00%
720+08.00	12'-0"	-2.00%
720+43.33	11'-4¾"	-2.00%

WALL CONTROL POINTS

FAI-80 Sta.	T/Coping Elev.	T/Exposed Panel Line Elev.	Finished Grade Elev. at F.F. of Wall	T/Leveling Pad Elev.	Offset
716+00.00	575.53	572.66	569.47	565.97	74.75' Lt.
716+13.42	575.21	572.33	569.45	565.95	74.75' Lt.
716+33.42	574.71	571.83	569.41	565.91	74.75' Lt.
716+52.00	574.29	571.41	569.37	565.87	74.75' Lt.
716+52.00	573.94	571.06	568.97	565.47	84.75' Lt.
716+63.42	574.03	571.15	569.35	565.85	74.75' Lt.
716+68.00	573.57	570.70	568.94	565.44	84.75' Lt.
716+68.00	573.92	571.05	569.34	565.84	74.75' Lt.
716+93.42	573.31	570.44	569.30	565.80	74.75' Lt.
717+23.42	572.55	569.67	568.24	564.74	74.75' Lt.
717+51.42	571.79	568.92	566.99	563.49	74.75' Lt.
717+83.42	570.90	568.02	565.56	562.06	74.75' Lt.
718+13.40	570.06	567.18	564.59	561.09	74.75' Lt.

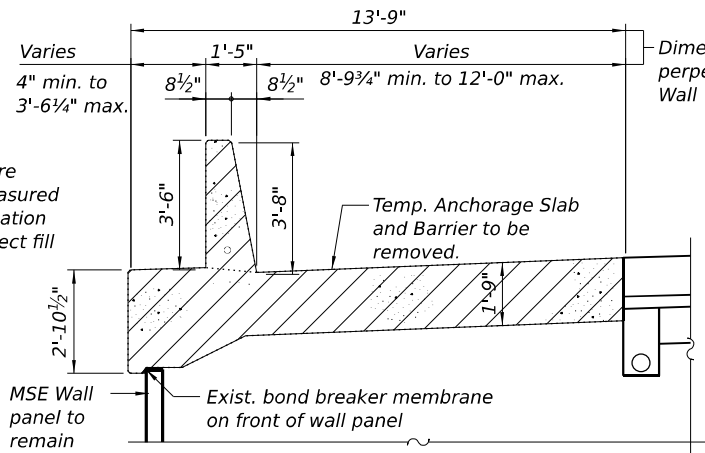
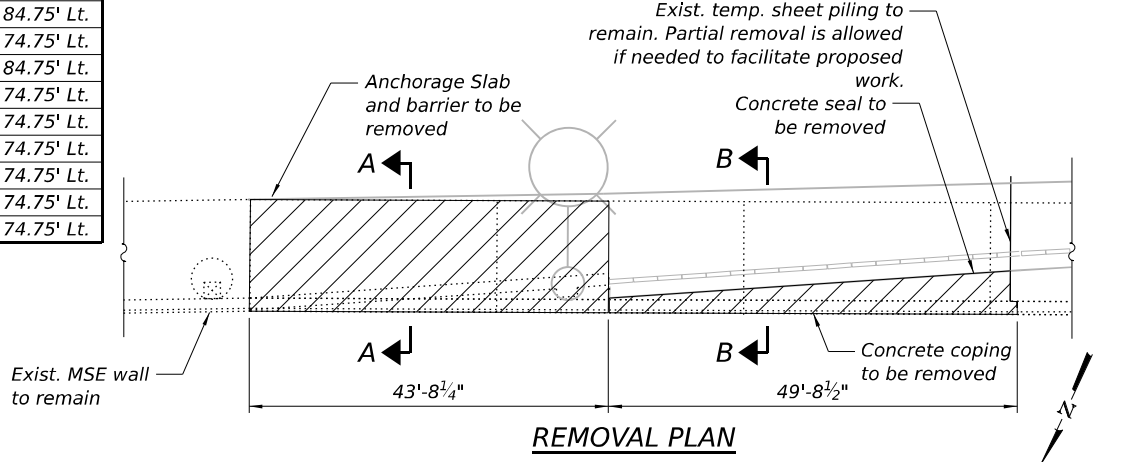
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal Of Existing Structures No. 6	Each	1
Structure Excavation	Cu Yd	271
Removal and Disposal of Unsuitable Material for Structures	Cu Yd	40
Concrete Superstructure	Cu Yd	279.3
Protective Coat	Sq Yd	501
Reinforcement Bars, Epoxy Coated	Pound	54,350
Pipe Handrail	Foot	35
Mechanically Stabilized Earth Retaining Wall	Sq Ft	720
Noise Abatement Wall Anchor Rod Assembly	Each	24

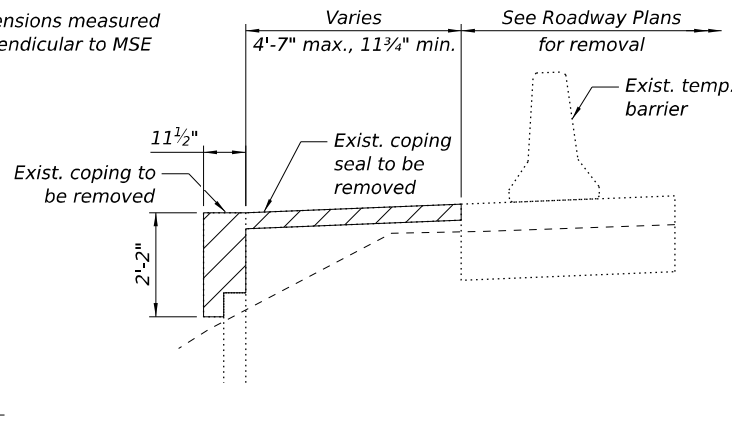


SECTION THRU MSE WALL

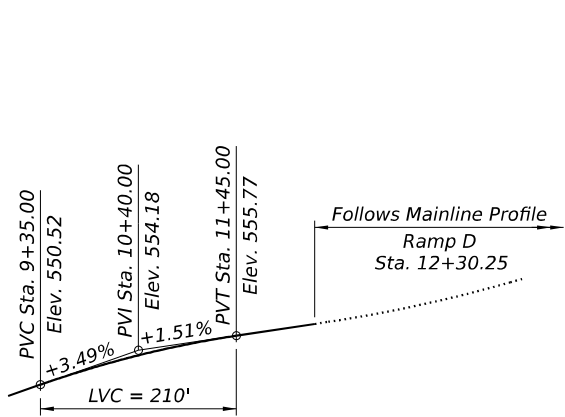
Sta. 716+00.00 to Sta. 717+20.00 (MSE Wall)
Sta. 715+75.29 to 718+13.42 (Anchorage Slab)



SECTION A-A

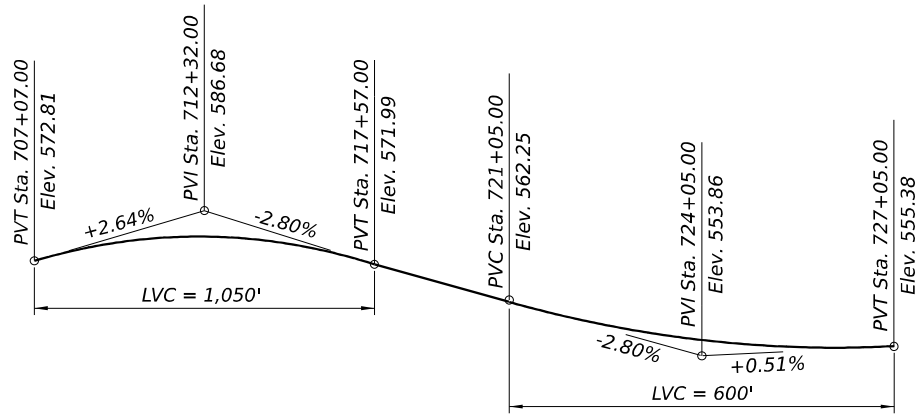


SECTION B-B



PROFILE GRADE

(Along Richards St. Ramp D)



PROFILE GRADE

(Along PGL of I-80 EB & WB)

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FILE NAME: C:\TRANSSYSTEMS\PW_LOCAL\TRANSSYSTEMS\PW-01\DM520863\099W035-62\F94-002-GD.DGN



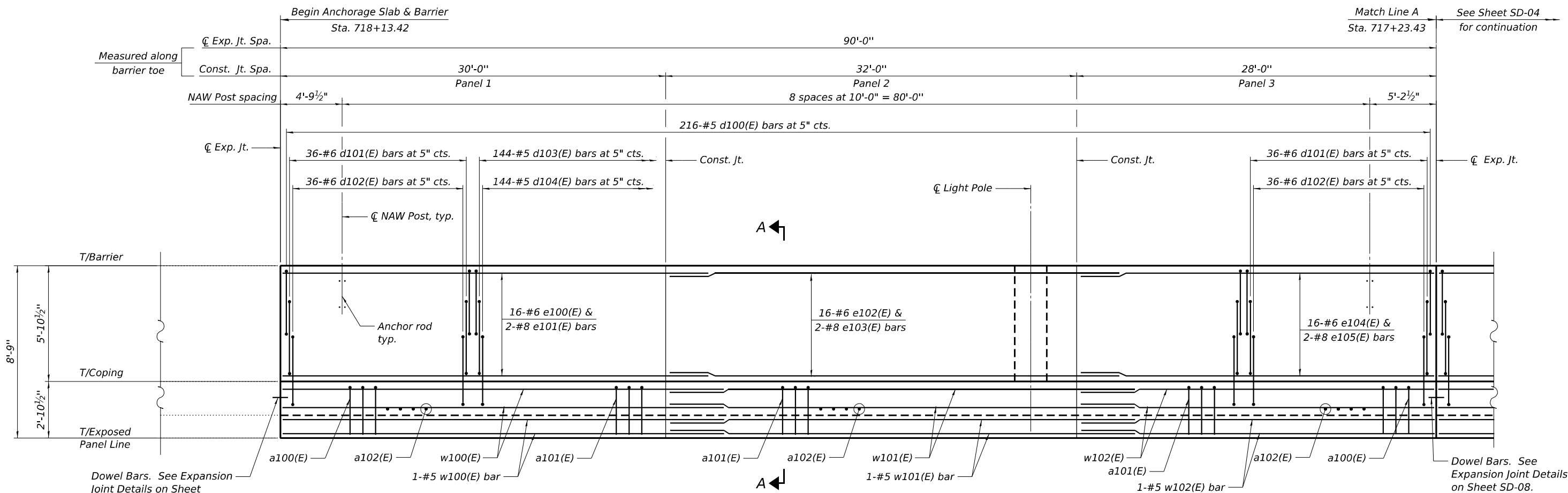
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PLOT SCALE =	CHECKED - VCP	REVISED -
PLOT DATE =	DRAWN - MTR	REVISED -
	CHECKED - BAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 099-W035 (WB)

SHEET SD-02 OF SD-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	891
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



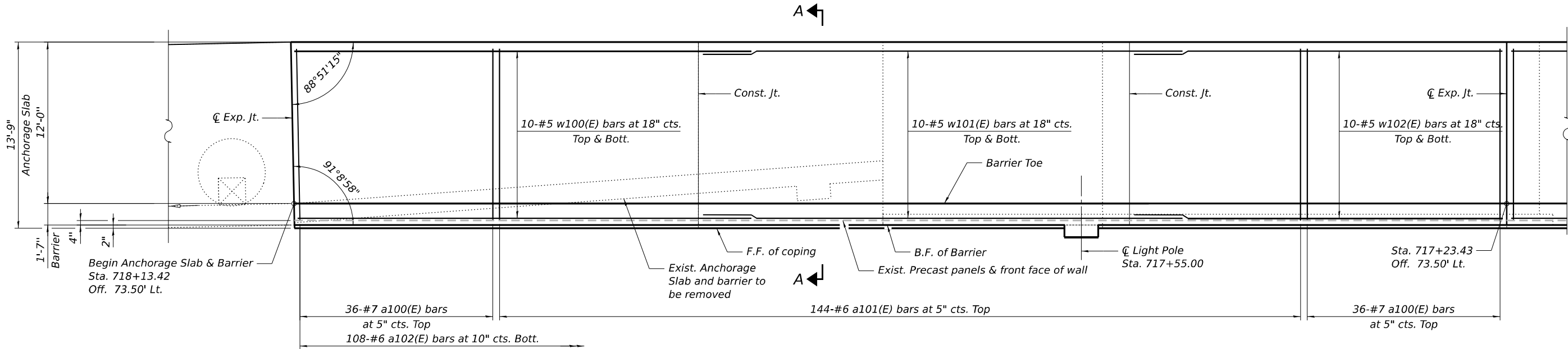
ELEVATION

NOTES:

- 1. For anchor rods and bar spacing at NAW post, light pole bumpout and catch basin opening details, see Sheet SD-07.
- 2. For Sections, see Sheet SD-06 and for details and Bill of Material, see Sheet SD-08.
- 3. Bars indicated thus 16x2 etc. indicates 16 lines of bars with 2 lengths per line.
- 4. F.F. denotes front face
B.F. denotes back face
NAW denotes Noise Abatement Wall

MIN. BAR LAPS

#5 bars = 3'-4"
#6 bars = 4'-0"
#8 bars = 6'-8"



PLAN

MODEL: SHEET
FILE NAME: C:\TRANSSYSTEMS\PW_LOCAL\TRANSSYSTEMS\PW-01\DM520863\099W035-62\F94-003-DET1.DGN



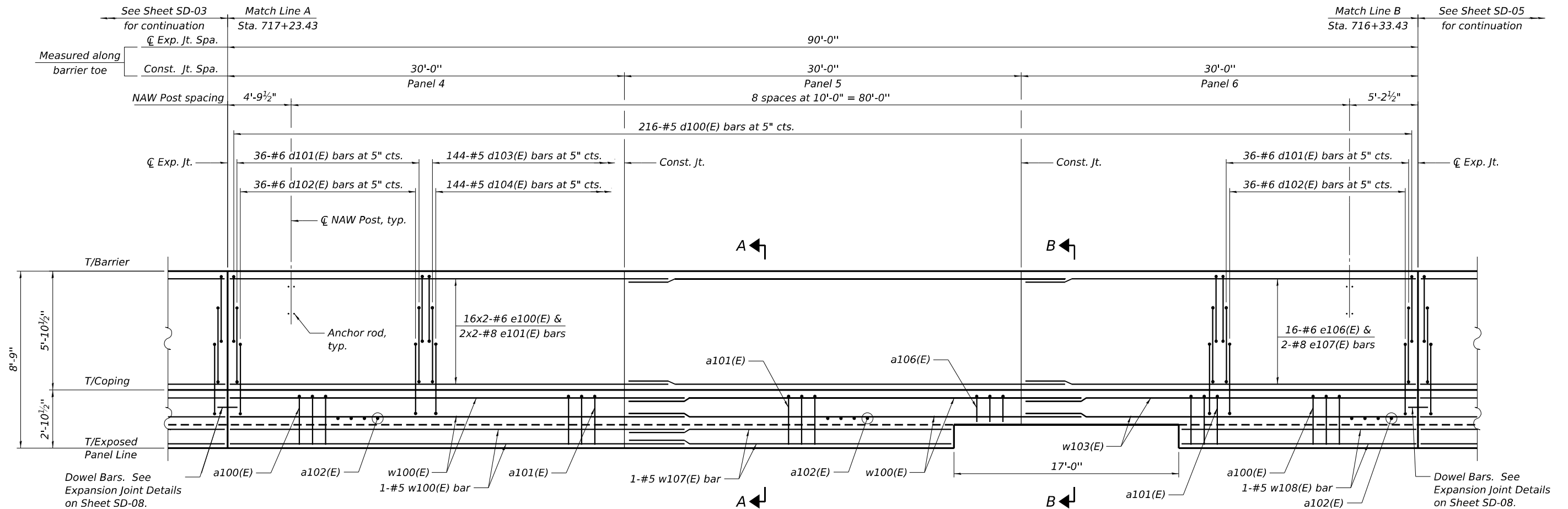
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PLOT SCALE	=	CHECKED - VCP	REVISED -
PLOT DATE	=	DRAWN - MTR	REVISED -
		CHECKED - BAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

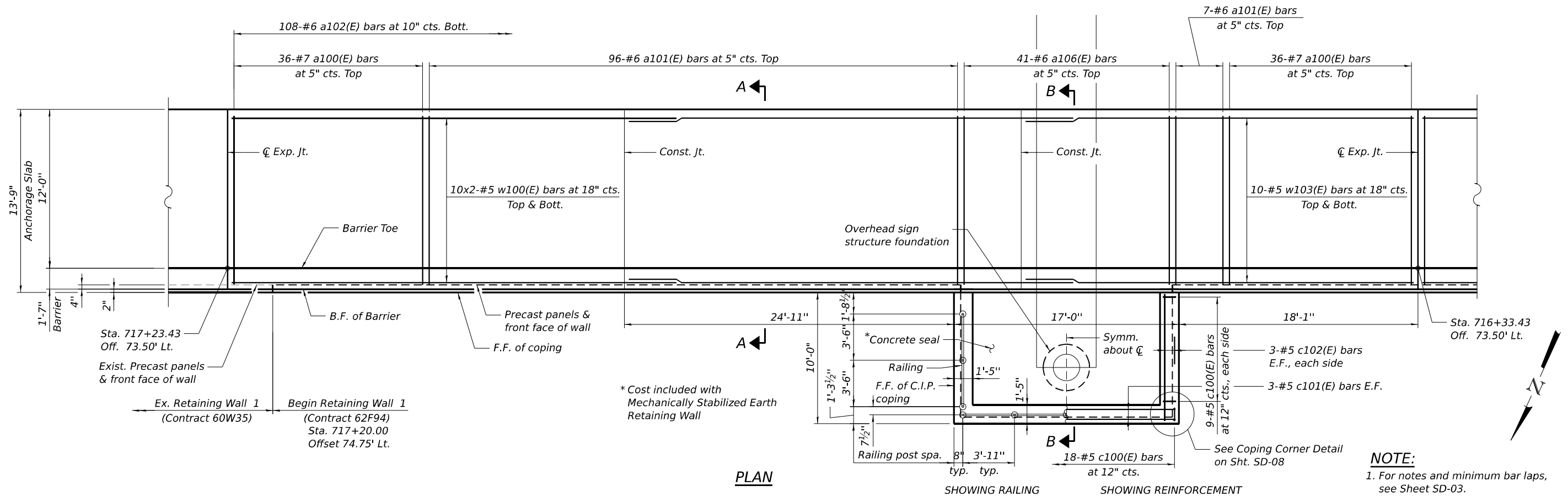
DETAILED PLAN AND ELEVATION 1
STRUCTURE NO. 099-W035 (WB)

SHEET SD-03 OF SD-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	892
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN

NOTE:
1. For notes and minimum bar laps, see Sheet SD-03.

MODEL: SHEET
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PLOT SCALE	=	CHECKED	-	VCP	REVISED	-
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		CHECKED	-	BAR	REVISED	-

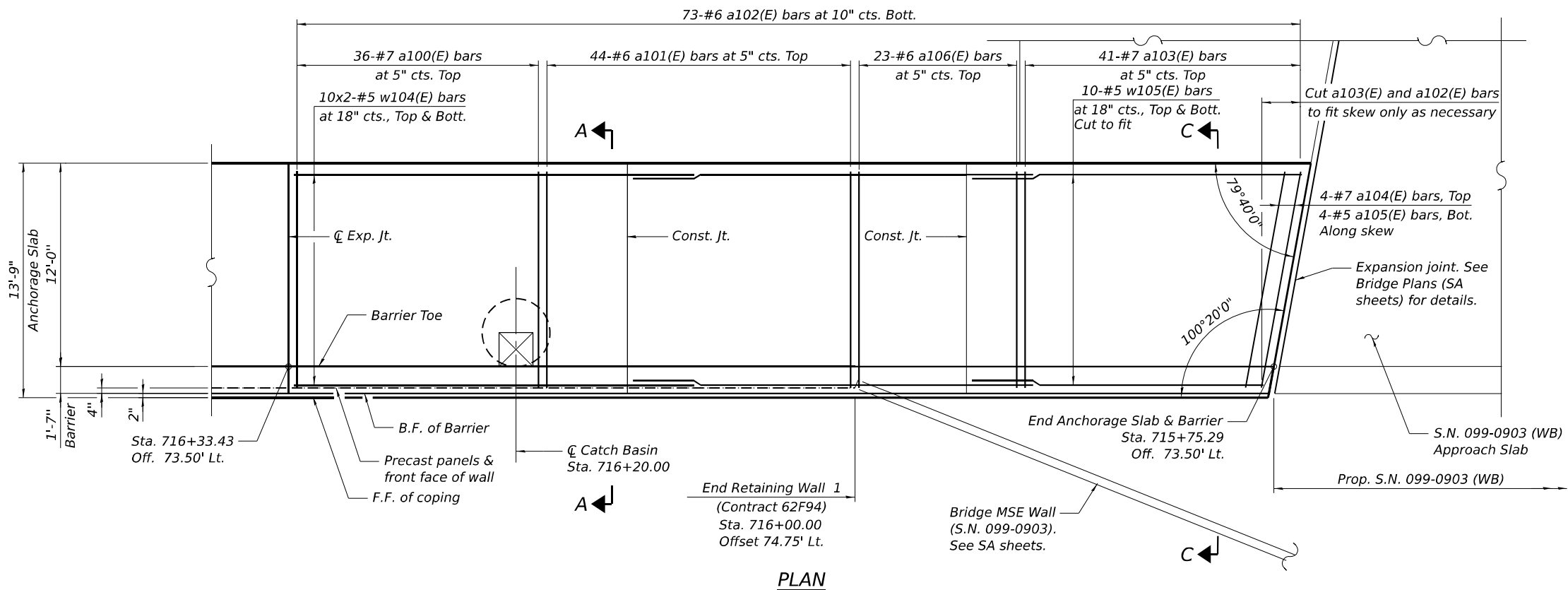
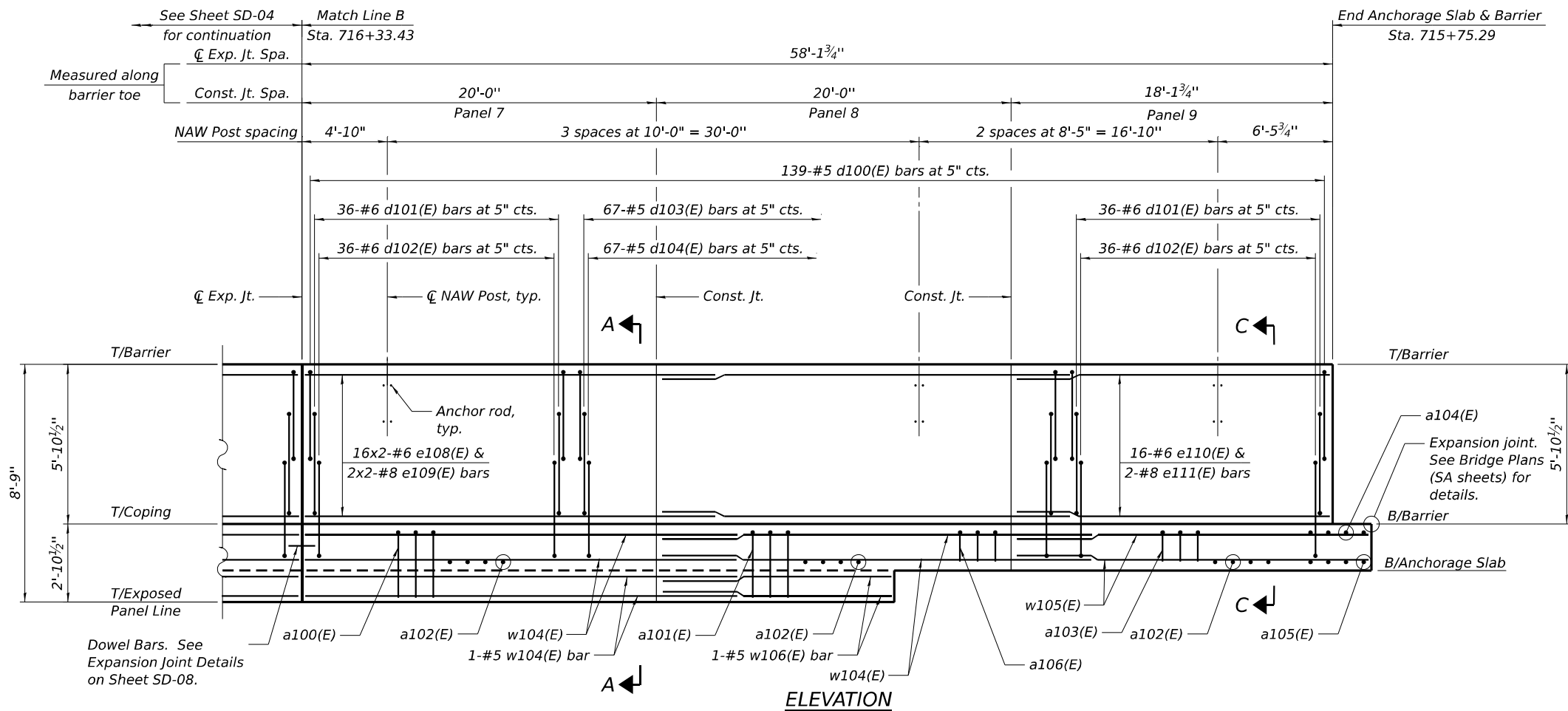
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILED PLAN AND ELEVATION 2
STRUCTURE NO. 099-W035 (WB)

SHEET SD-04 OF SD-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	893
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

10-27-2025, 16:53:27



NOTE:
 1. For notes and minimum bar laps, see Sheet SD-03.

MODEL: SHEET
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PLOT DATE	=	DRAWN - MTR	REVISED -
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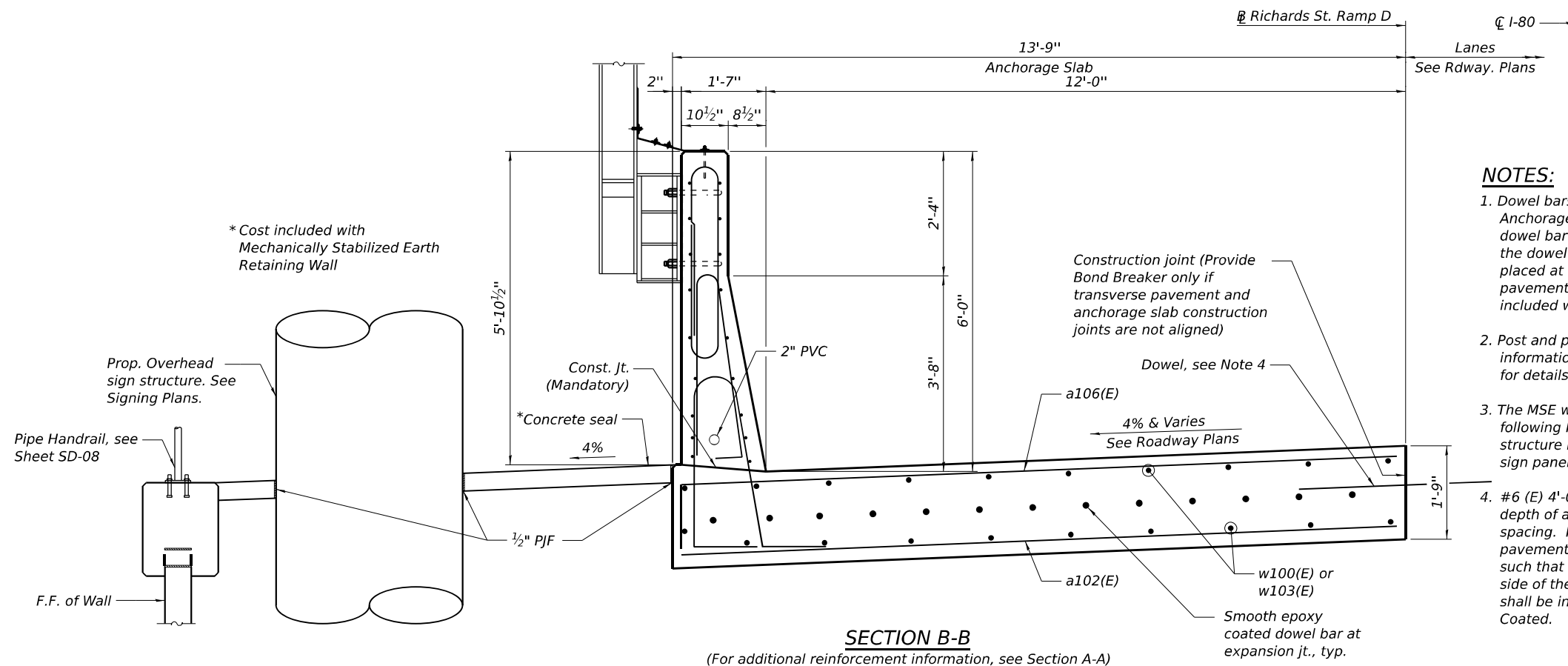
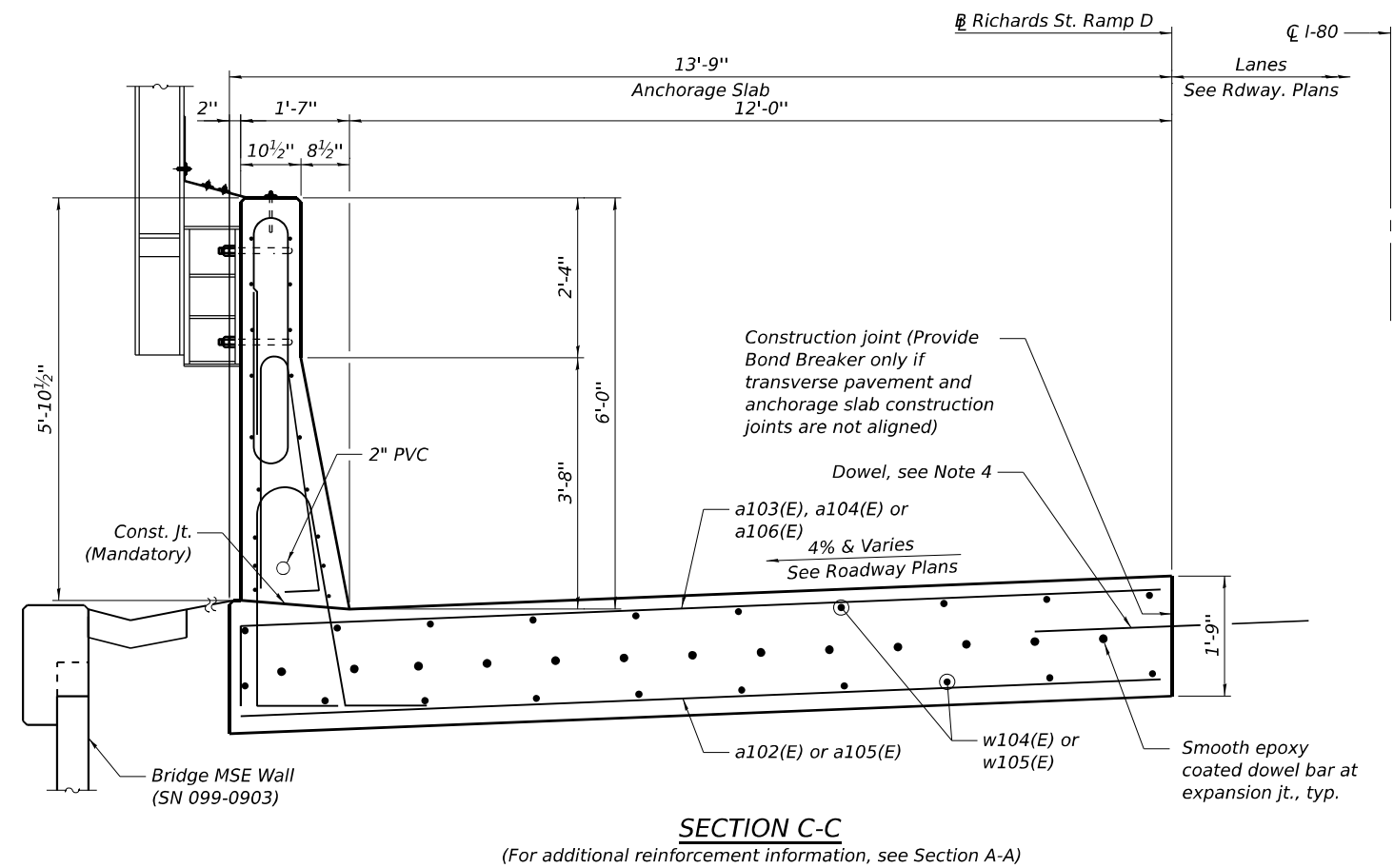
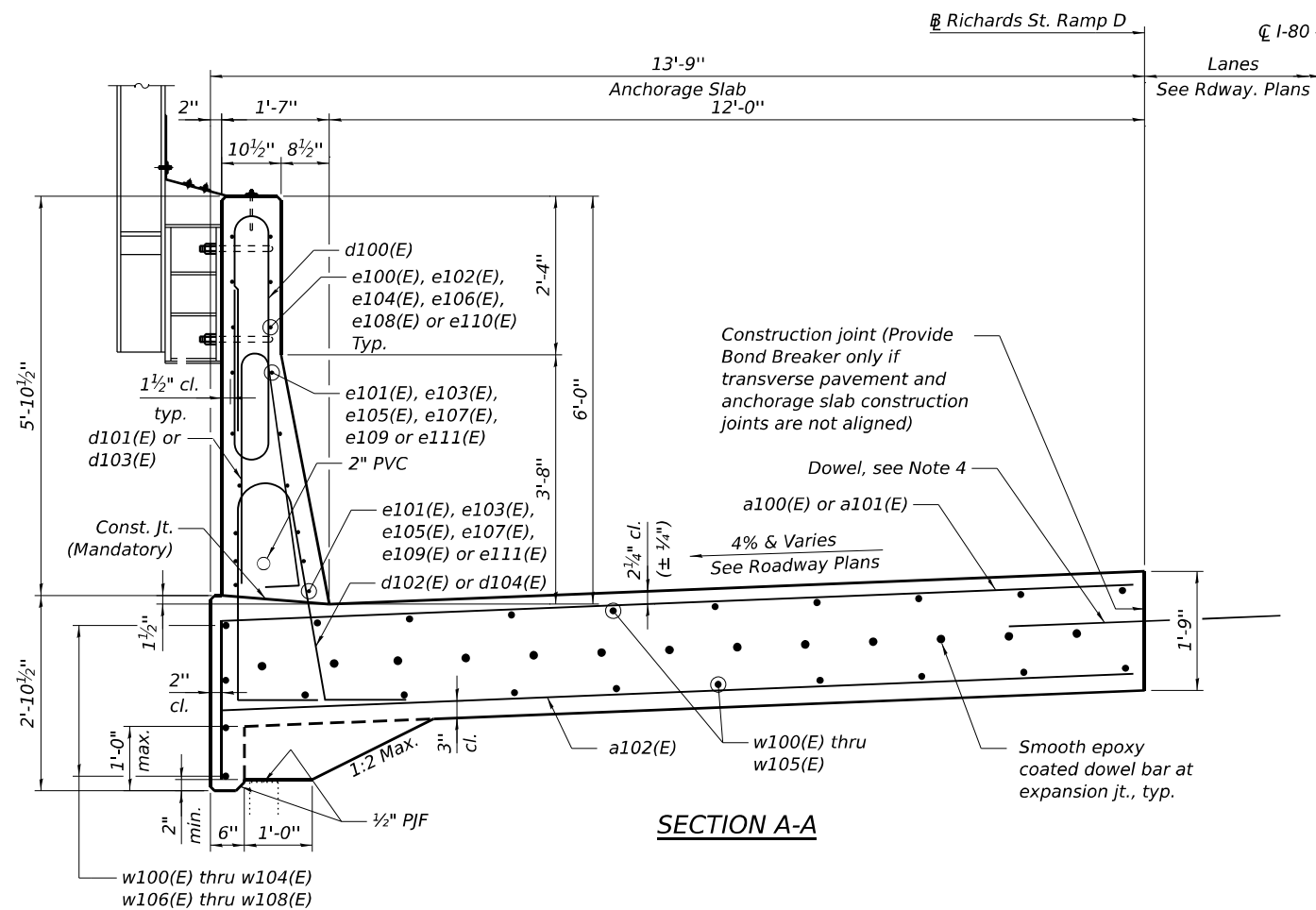
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAILED PLAN AND ELEVATION 3
 STRUCTURE NO. 099-W035 (WB)

SHEET SD-05 OF SD-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	894
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				

10-27-2025, 16:53:42



- NOTES:

1. Dowel bars shall be placed at mid-depth of Anchorage Slab at a maximum of 3' 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.

2. Post and post connection bracket details shown for information only. See Noise Abatement Wall plans for details.

3. The MSE wall supplier's design shall account for the following horizontal reactions at the overhead sign structure base plate: 15.1 kips (perpendicular to sign panel) and 2.9 kips (parallel to sign panel).

4. #6 (E) 4'-0" long dowel bars shall be placed at mid-depth of anchorage slab at a maximum 3'-0" spacing. If dowel bar aligns within 1'-6" of a pavement joint, the dowel bar shall be repositioned such that it is placed a minimum of 1'-6" from either side of the pavement joint. Cost for dowel bars shall be included with Reinforcement Bars, Epoxy Coated.

ANCHOR ROD LAYOUT
(Back of Parapet Elevation)

PLAN AT NAW POST

SECTION A-A

REINFORCEMENT AROUND DRAINAGE OPENING - PLAN
(For clarity some reinforcement not shown)

LIGHT POLE ANCHOR ROD

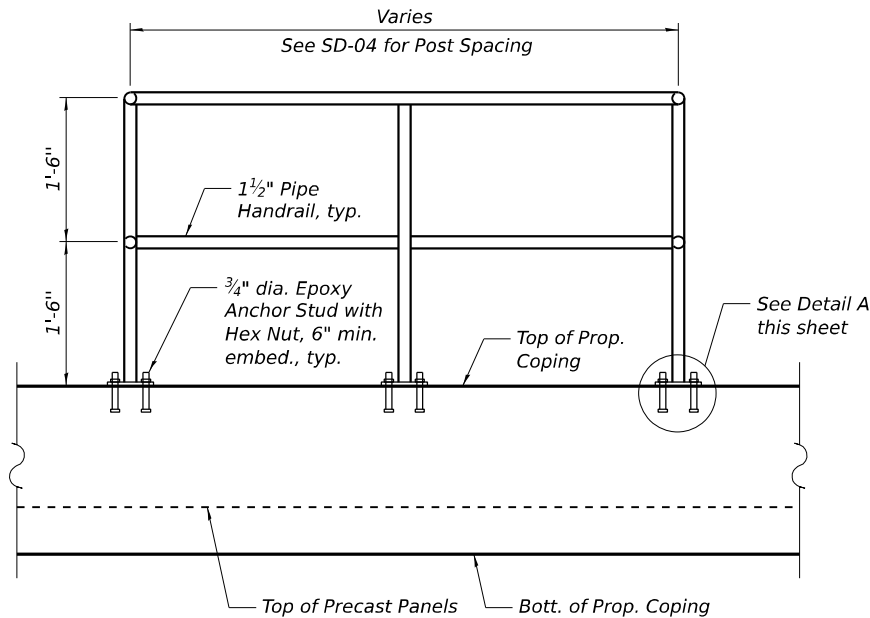
*Diameter as specified for light poles.
(ASTM F 1554 Grade 105) Full length
hot dipped galvanized.*

WALL CONNECTION DETAIL
(Cost included with Mechanically Stabilized Earth Retaining Wall))

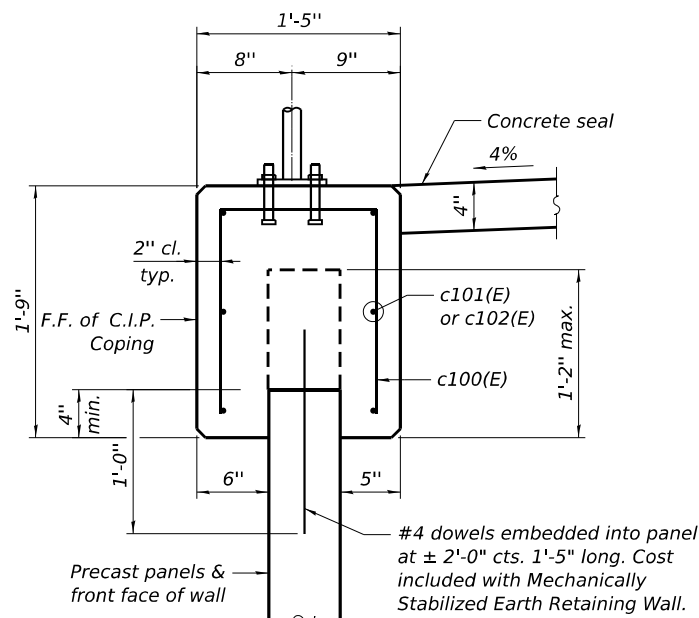
PLAN

Note:
Cost of Anchor Rods included with
Concrete Superstructure.

MODEL: SHEET
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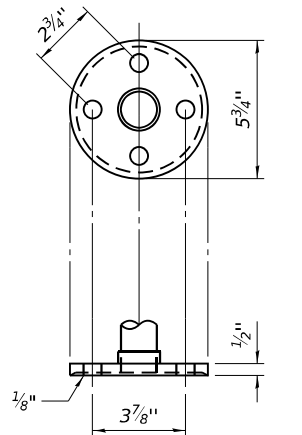
PIPE HAND RAIL ELEVATION



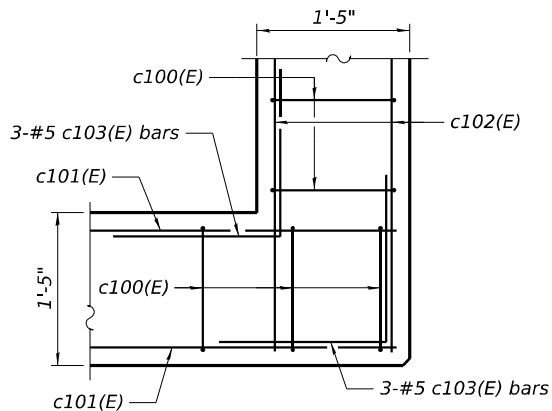
COPING DETAIL

Pipe Handrail General Notes:

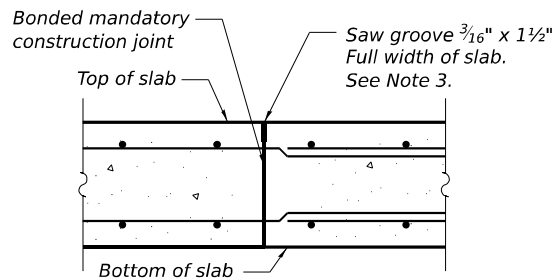
- Article 509.04 of the Standard Specifications shall apply.
- Connection of Railing to posts shall be made by continuous welding or with using standard pipe fitting.
- The pipe handrail shall be galvanized by the hot dip process.



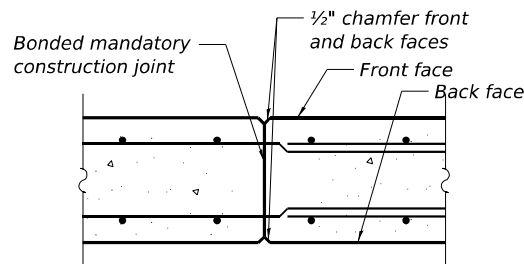
DETAIL A
(Cast iron or Structural Steel fitting)



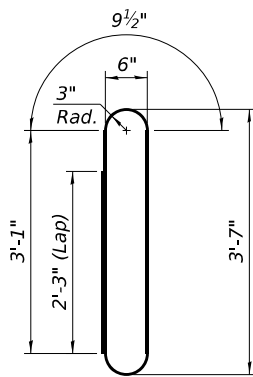
COPING CORNER DETAIL



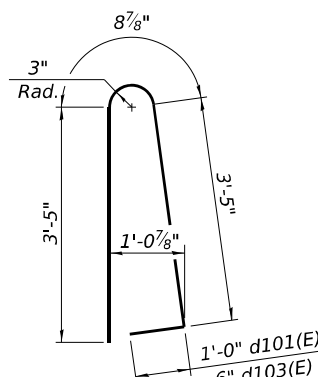
TRANSVERSE CONSTRUCTION JT. IN SLAB - SECTION



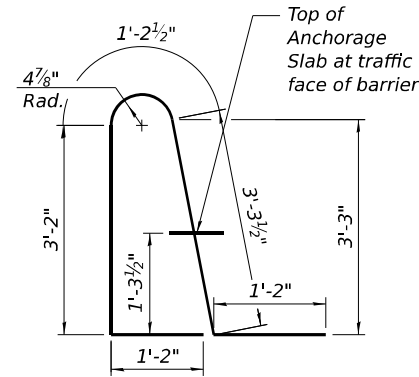
TRANSVERSE CONSTRUCTION JT. IN BARRIER - PLAN



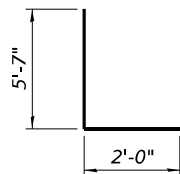
BAR d100(E)



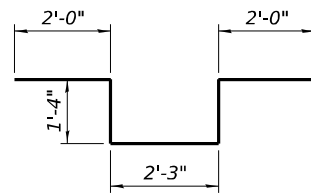
BARS d101(E) & d103(E)



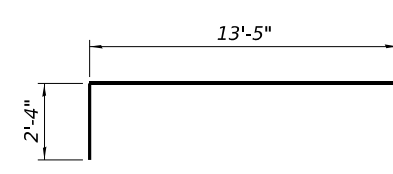
BARS d102(E) & d104(E)



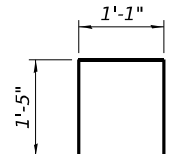
BAR d105(E)



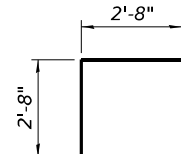
BAR d106(E)



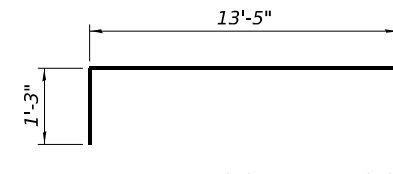
BARS a100(E) & a101(E)



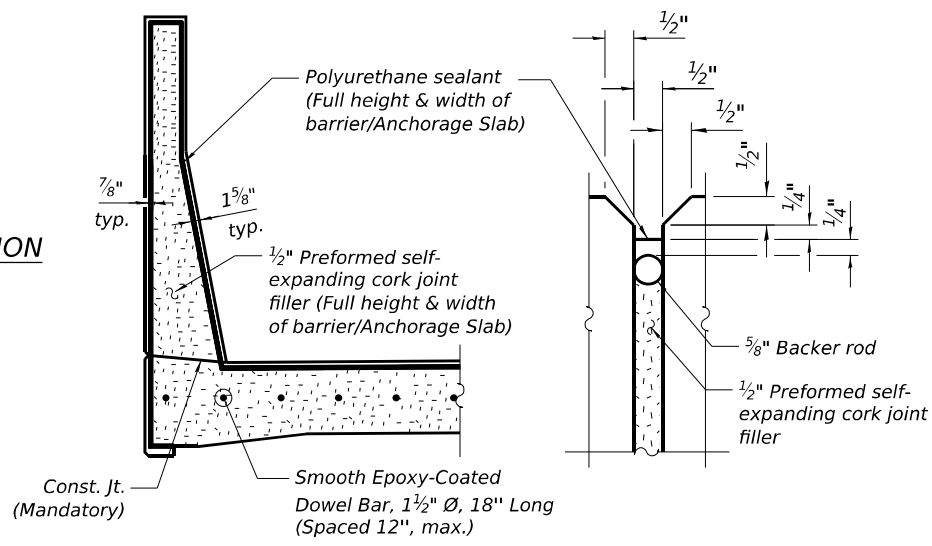
BAR c100(E)



BAR c103(E)



BARS a103(E) & a106(E)



EXPANSION JOINT DETAILS

See Note 2

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100(E)	180	#7	15'-9"	
a101(E)	291	#6	15'-9"	
a102(E)	289	#6	13'-5"	
a103(E)	41	#7	14'-8"	
a104(E)	4	#7	13'-9"	
a105(E)	4	#5	13'-9"	
a106(E)	64	#6	14'-8"	
a107(E)	16	#6	6'-0"	
c100(E)	36	#5	3'-11"	
c101(E)	6	#5	16'-8"	
c102(E)	12	#5	9'-7"	
c103(E)	12	#5	5'-4"	
d100(E)	571	#5	10'-0"	
d101(E)	216	#6	8'-7"	
d102(E)	220	#6	10'-0"	
d103(E)	355	#5	8'-1"	
d104(E)	355	#5	10'-0"	
d105(E)	3	#6	7'-7"	
d106(E)	11	#6	8'-11"	
e100(E)	48	#6	34'-0"	
e101(E)	6	#8	36'-8"	
e102(E)	16	#6	36'-0"	
e103(E)	2	#8	38'-8"	
e104(E)	16	#6	27'-8"	
e105(E)	2	#8	27'-8"	
e106(E)	16	#6	29'-8"	
e107(E)	2	#8	29'-8"	
e108(E)	32	#6	24'-0"	
e109(E)	4	#8	26'-8"	
e110(E)	16	#6	17'-10"	
e111(E)	2	#8	17'-10"	
w100(E)	62	#5	33'-4"	
w101(E)	22	#5	35'-4"	
w102(E)	22	#5	27'-8"	
w103(E)	20	#5	29'-8"	
w104(E)	42	#5	23'-4"	
w105(E)	20	#5	20'-0"	
w106(E)	2	#5	13'-1"	
w107(E)	2	#5	24'-7"	
w108(E)	2	#5	17'-9"	
Item			Unit	Quantity
Concrete			Cu Yd	279.3
Reinforcement Bars, Epoxy Coated			Pound	54,350

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 with Concrete Superstructure.
- The saw groove shall use a hot poured joint sealer per Article 1050.02 of the Standard Specifications.



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL DETAILS 3
STRUCTURE NO. 099-W035 (WB)

SHEET SD-08 OF SD-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	897
CONTRACT NO. 62F94				
ILLINOIS FED. AID PROJECT				



Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 552-3344

GSI Job No. 20012

Page 1 of 1

Date 5/12/21

SOIL BORING LOG

ROUTE FAI 80 DESCRIPTION I-80 Phase II LOGGED BY ZP

SECTION LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. Station

BORING NO. RW-32
Station 716+04
Offset 53.30ft Left
Ground Surface Elev. 574.62 ft

DEPTH
H
T
S

BLOWS
W
S
Qu

UCS
C
S

MOIST
I
S
T

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to -10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH
H
T
S

BLOWS
W
S
Qu

UCS
C
S

MOIST
I
S
T

CLAY LOAM-brown & gray-stiff to hard (Fill) (continued)

4.5" ASPHALT, 13.0" CONCRETE

573.16

2

4

3.00

15

CRUSHED STONE-loose

1

6

P

571.62

4

5

CLAY LOAM-brown & gray-stiff (Fill)

3

1.20

20

9

3.50

15

569.12

3

B

13

B

SILTY CLAY LOAM-brown & gray-loose (Fill)

3

6

3.10

15

566.62

4

11

B

CLAY LOAM-brown & gray-stiff to hard (Fill)

3

7

2.80

12

3

1.20

18

8

B

2

5

1.00

20

7

4

P

5

2.00

20

3

6

4.00

15

6

1.30

23

5

P

3

4

2.40

19

3

3.00

21

4

B

3

5

6

1.90

16

6

8

B

7

2.90

15

20

14

B

16

End Of Boring @ -40.0'. Boring backfilled with cuttings.

534.62

-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), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)



Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 552-3344

GSI Job No. 20012

Page 1 of 1

Date 5/12/21

SOIL BORING LOG

ROUTE FAI 80 DESCRIPTION I-80 Phase II LOGGED BY ZP

SECTION LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. Station

BORING NO. RW-33
Station 716+57
Offset 55.00ft Left
Ground Surface Elev. 573.73 ft

DEPTH
H
T
S

BLOWS
W
S
Qu

UCS
C
S

MOIST
I
S
T

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to -10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH
H
T
S

BLOWS
W
S
Qu

UCS
C
S

MOIST
I
S
T

CLAY LOAM-brown & gray-very stiff to hard (Fill) (continued)

4.0" ASPHALT, 9.0" CONCRETE

572.64

3

7

2.40

14

CLAY LOAM-brown & gray-very stiff to hard (Fill)

5

8

B

5

7

3

10

2.10

12

5

2.20

19

9

B

4

B

13

B

6

11

8

3.50

17

8

8

B

15

NR

3

10

7

3.10

18

12

4.50

13

7

B

14

P

10

12

5

13

5

3.00

18

5

5

P

8

5

5

7

2.00

20

11

5

P

11

3

4

4

2.40

19

8

4

B

11

5

12

4.50

16

6

2.90

15

16

P

7

B

16

20

14

B

16

End Of Boring @ -40.0'. Boring backfilled with cuttings.

533.73

-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), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)



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(630) 552-3344

GSI Job No. 20012

Page 1 of 1

Date 5/12/21

SOIL BORING LOG

ROUTE FAI 80 DESCRIPTION I-80 Phase II LOGGED BY ZP

SECTION LOCATION SW 1/4, SEC. 15, TWP. T35N, RNG. R30E, 3rd PM

COUNTY Will DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. Station

BORING NO. RW-34
Station 717+30
Offset 57.50ft Left
Ground Surface Elev. 572.32 ft

DEPTH
H
T
S

BLOWS
W
S
Qu

UCS
C
S

MOIST
I
S
T

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter Dry to -10.0' ft
Upon Completion n/a ft
After Hrs. ft

DEPTH
H
T
S

BLOWS
W
S
Qu

UCS
C
S

MOIST
I
S
T

CLAY LOAM-brown & gray-stiff to hard (Fill) (continued)

13.0" ASPHALT

571.24

15

5

3.50

17

CLAY LOAM-brown & gray-stiff to hard (Fill)

5

6

P

3

10

3

1.20

21

50/8"

3.50

13

3

B

7

3

12

2.50

11

6

11

B

7

7

8

4.00

15

10

2.50

15

9

B

12

B

3

7

3

5

5

1.80

21

9

6

B

12

3

4

7

2.70

19

10

2.00

16

9

B

11

P

6

8

8

2.90

16

7

8

B

12

3

5

5

1.80

17

8

4.50

15

6

B

12

P

20

14

B

16

End Of Boring @ -40.0'. Boring backfilled with cuttings.

532.32

-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), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 1
STRUCTURE NO. 099-W035 (WB)

SHEET SD-09 OF SD-11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	898
CONTRACT NO. 62F94				
ILLINOIS		FED. AID PROJECT		


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