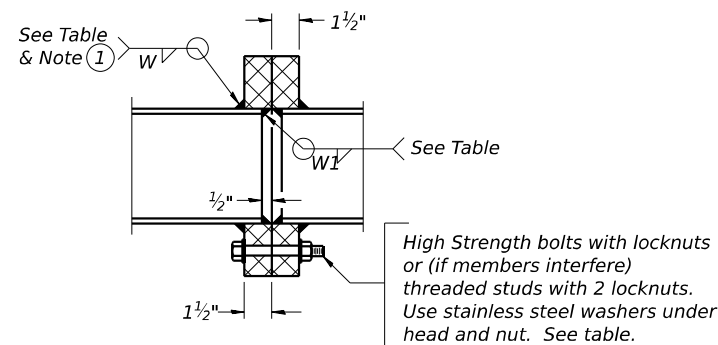
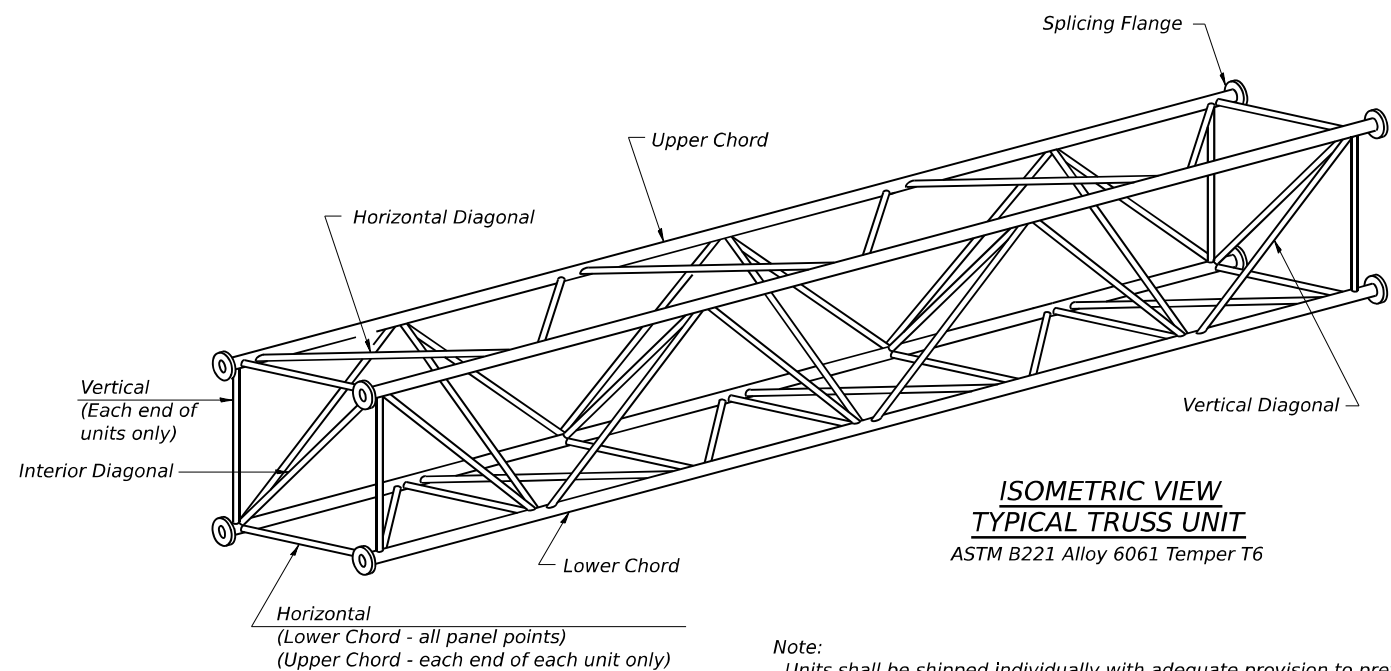


TRUSS UNIT TABLE

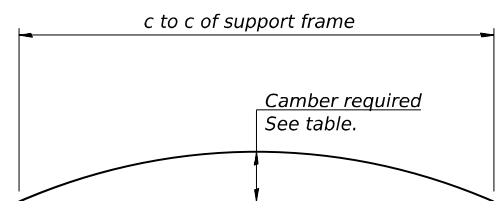
[illegible]

SECTION B-B

- ① *Splicing Flanges shall be attached to each truss unit with the truss shop assembly be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.*



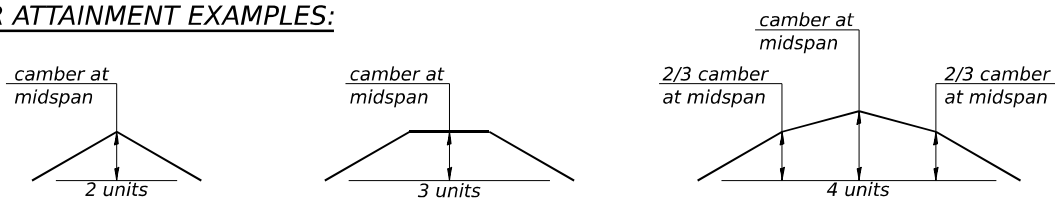
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



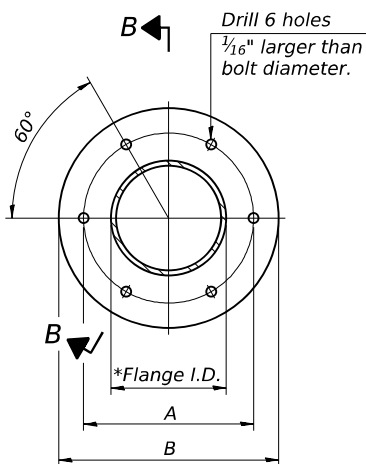
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

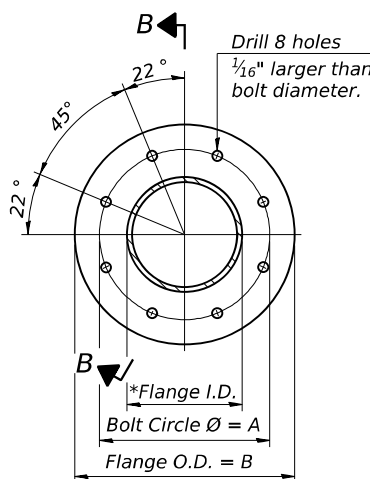
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



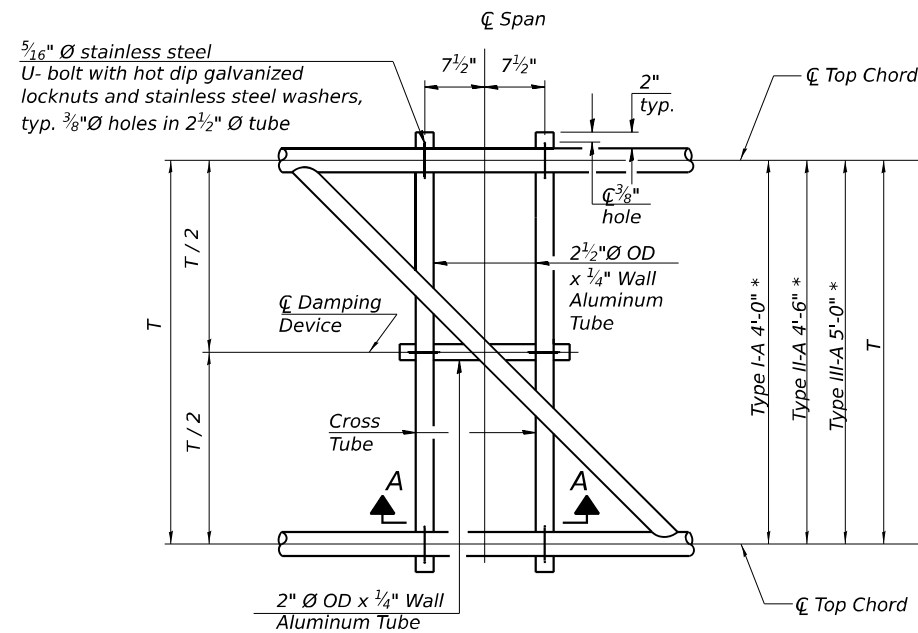
TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651

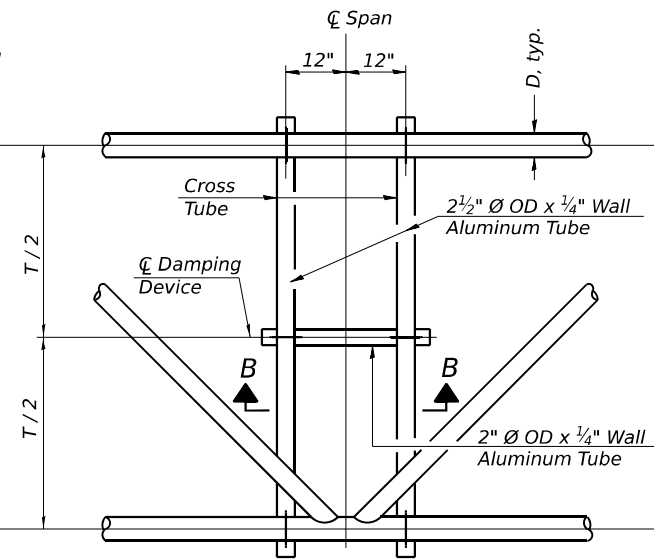
*To fit O.D. of Chord with maximum gap of $\frac{1}{16}$ ".

MODEL: Default: p:\projects\trans\stone-pw\hntb\comtrans\corp\ppl-hosted\Documents\Projects_2018\CH401\401180022\02-TransSystems\CAD\2027\Sheets\22-ITS_15\016\2R27-sh-hs-hs-004.dgn



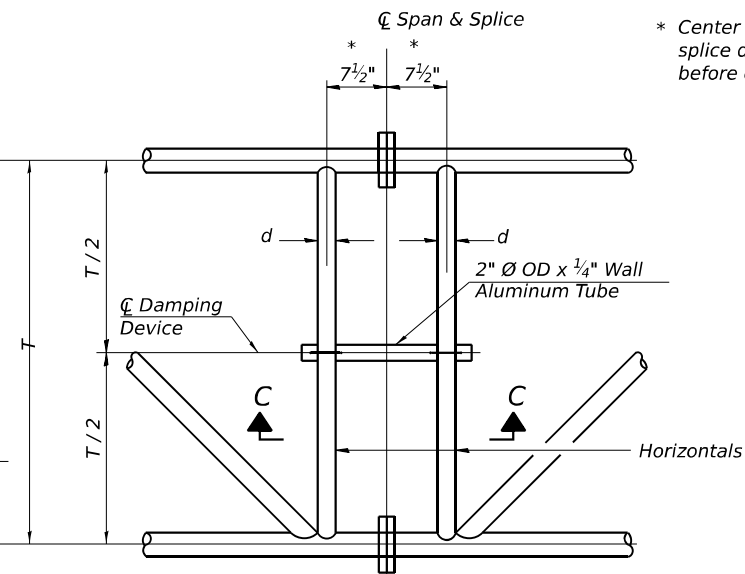
PLAN DETAIL "A"

Span between Panel Points



PLAN DETAIL "B"

Span at Panel Point



PLAN DETAIL "C"

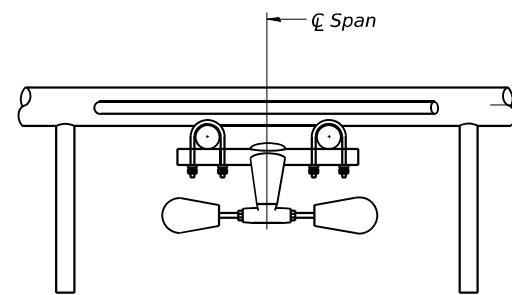
Span at Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

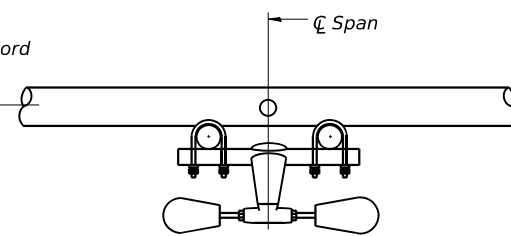
NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")

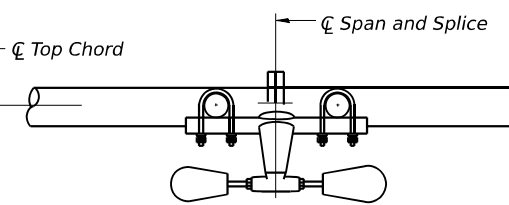
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure - Span Type III-A (5'-0" X 7'-0")



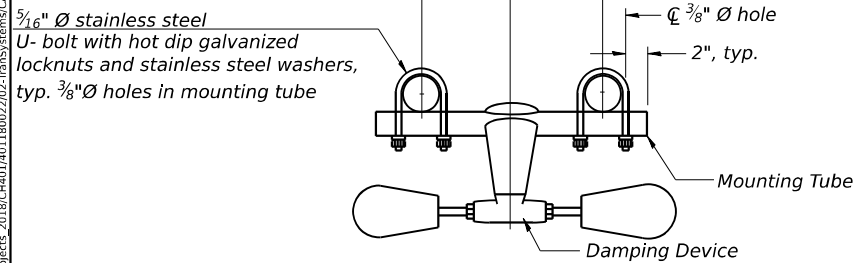
SECTION A-A



SECTION B-B

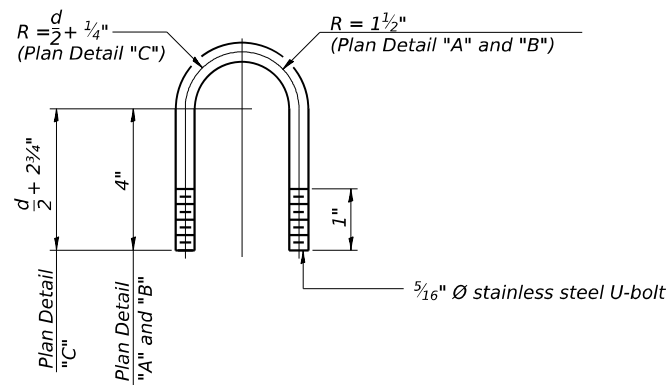


SECTION C-C



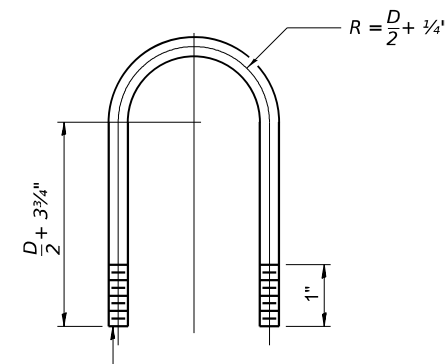
TRUSS DAMPING
DEVICE CONNECTION DETAIL

(Typical)



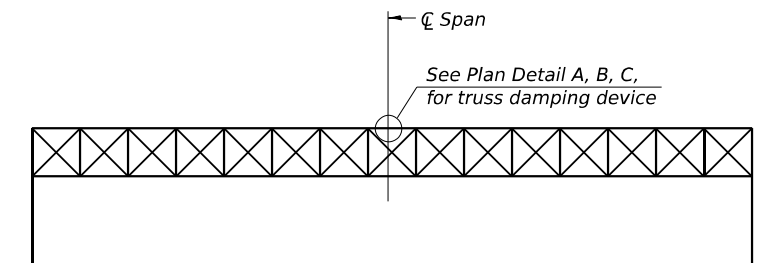
DAMPING DEVICE MOUNTING
TUBE U-BOLT DETAIL

(Typical)



TOP CHORD TO CROSS TUBE
U-BOLT DETAIL

(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead
Sign Truss

OS-A-D

2-17-2017



USER NAME	= RussellBr	DESIGNED	- CS	REVISED	-
DRAWN	- CS	REVISIONS	-		
PLOT SCALE	= 31.9987' / in.	CHECKED	- BAR	REVISED	-
PLOT DATE	= 6/15/2023	DATE	-	REVISED	-

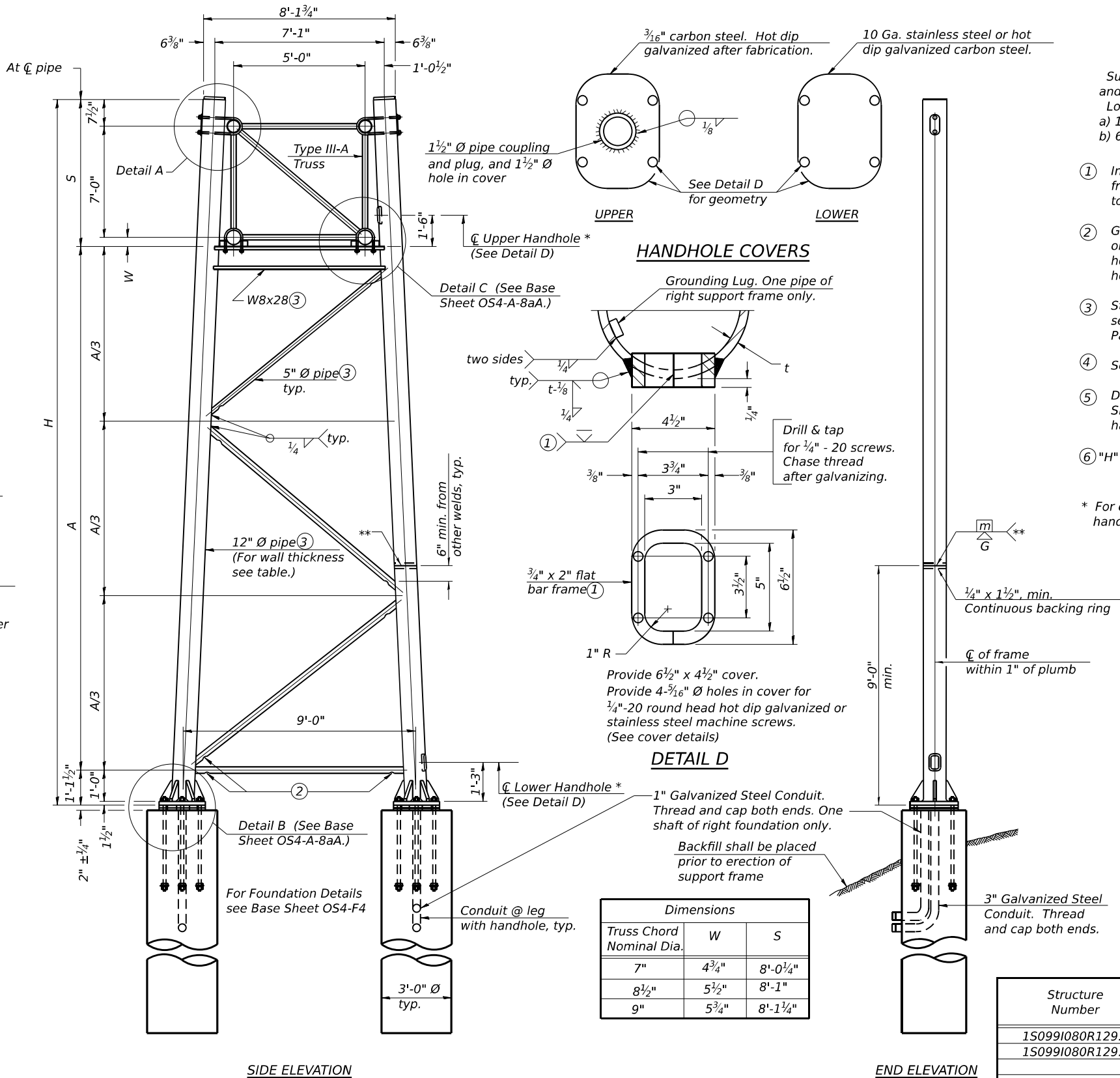
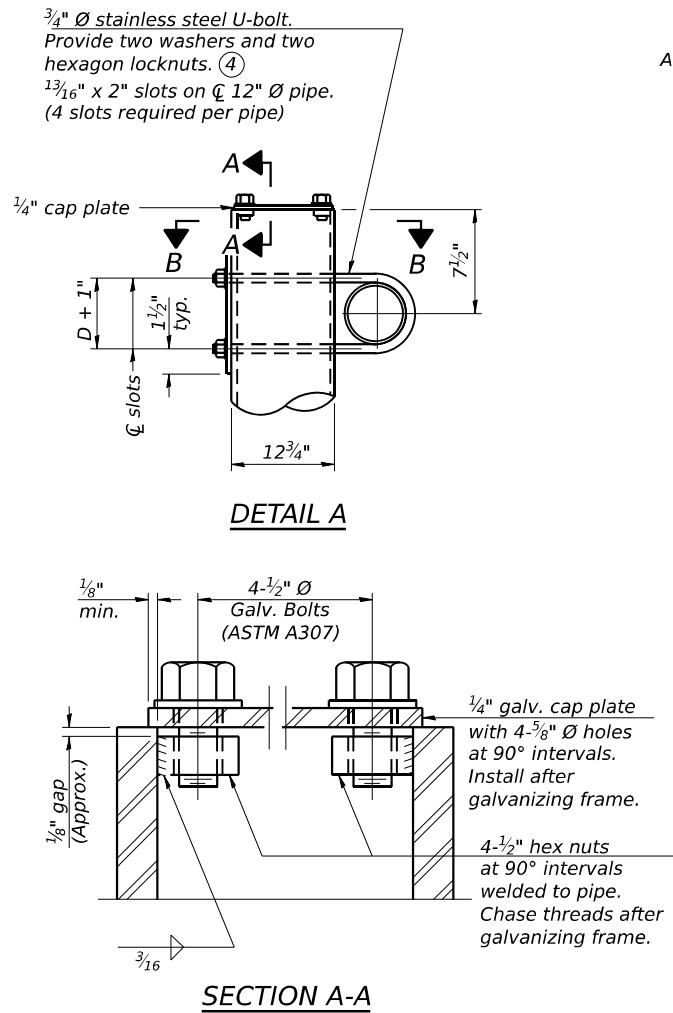
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
DAMPING DEVICE

SCALE: SHEET 4 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	503
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

MODEL: Default: p:\projects\trans\systems\corp\ppl-hosted\Documents\Projects_2018\C4001401180022\02-Trans\Systems\CAD\62027\Sheet22-ITS.TSD\62R27-shh-ss05.dgn
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Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μ in or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

TRUSS SUPPORT DETAILS

(12" $\varnothing$ Pipe-Type III-A Truss)

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
150991080R129.0	500+85	-	X	0.33"	31'-11 $\frac{3}{4}"$	22'-10"
150991080R129.0	500+85	X	-	0.33"	26'-4 $\frac{3}{4}"$	17'-3"



USER NAME = RussellBr
DESIGNED - CS
DRAWN - CS
PLOT SCALE = 31.9987' / in.
CHECKED - BAR
PLOT DATE = 6/15/2023
DATE -

DESIGNED - CS
DRAWN - CS
CHECKED - BAR
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – SUPPORT FRAME
FOR TYPE III-A ALUMINUM TRUSS

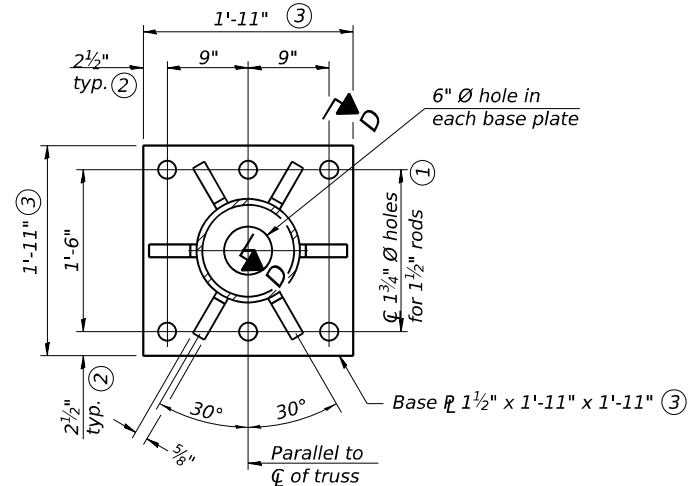
SCALE: SHEET 5 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	504
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

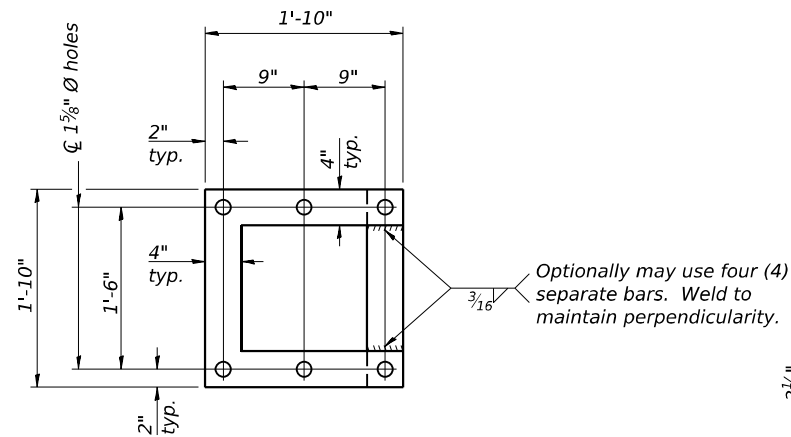
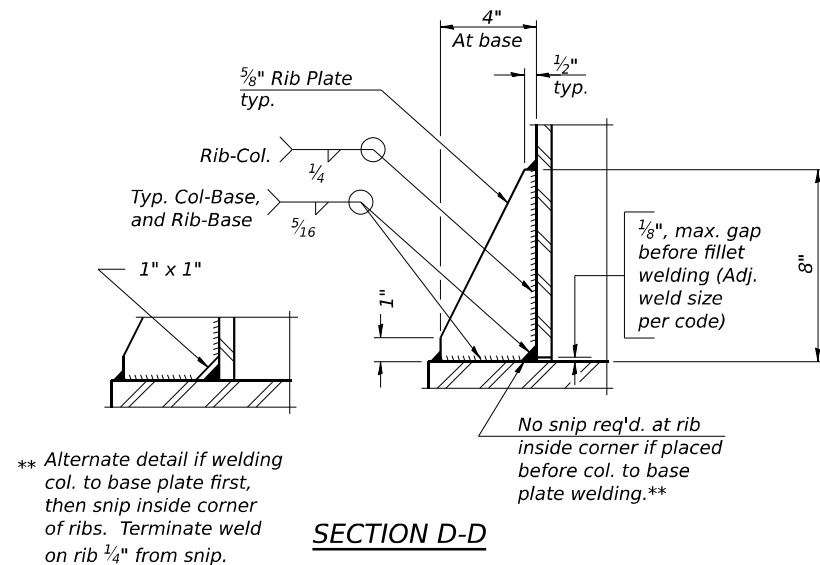
DETAIL B

Ribs shall be cut to fit slope of pipe.

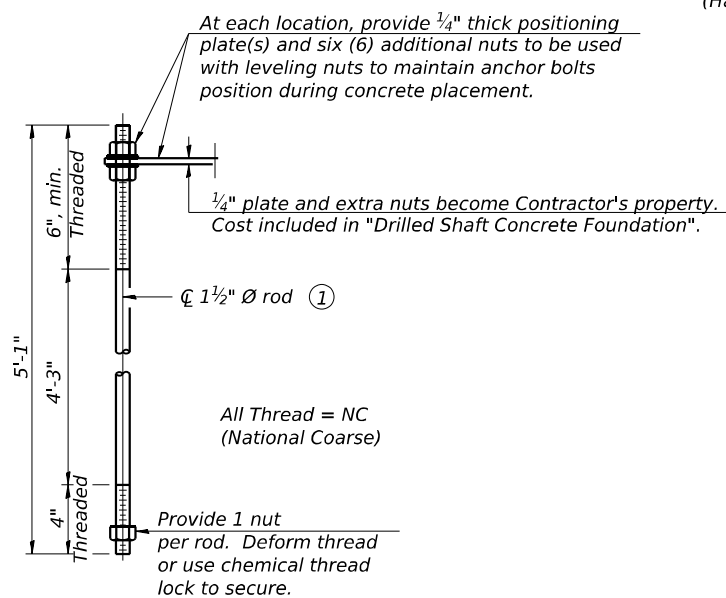
Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



SECTION B-B

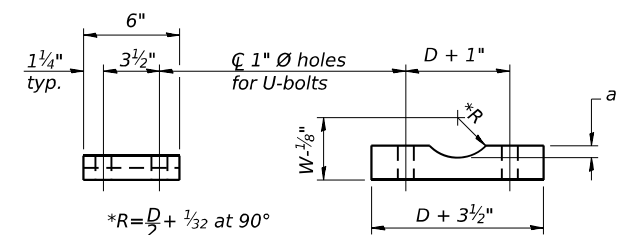
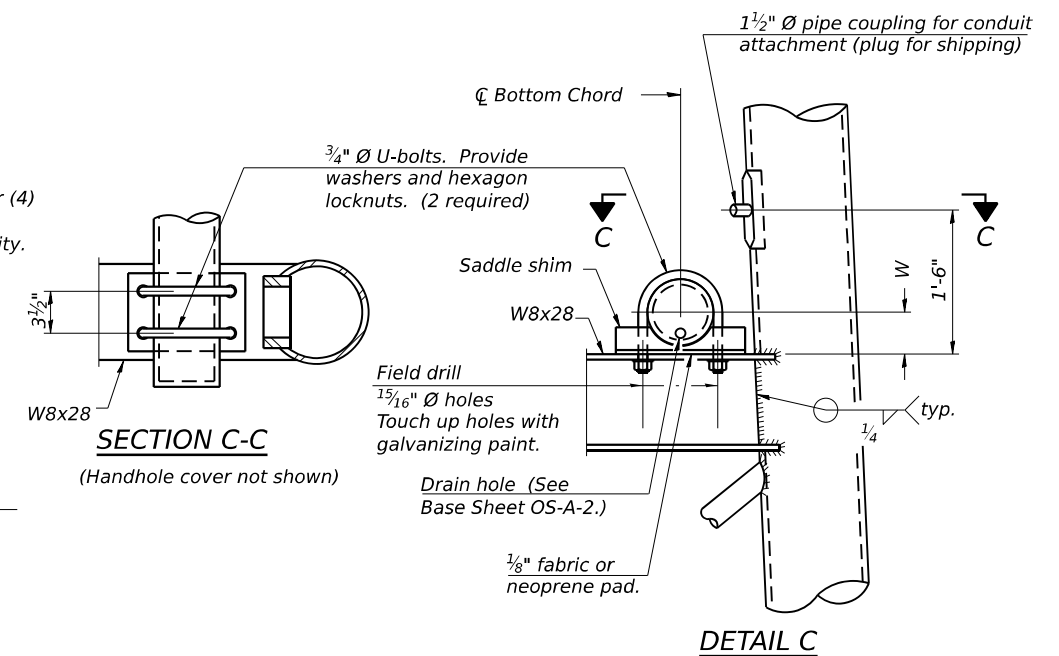


POSITIONING PLATE(S)



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.



*D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.*

Truss Chord Nominal Dia.	a
7"	1"
8½"	1¼"
9"	1⅜"

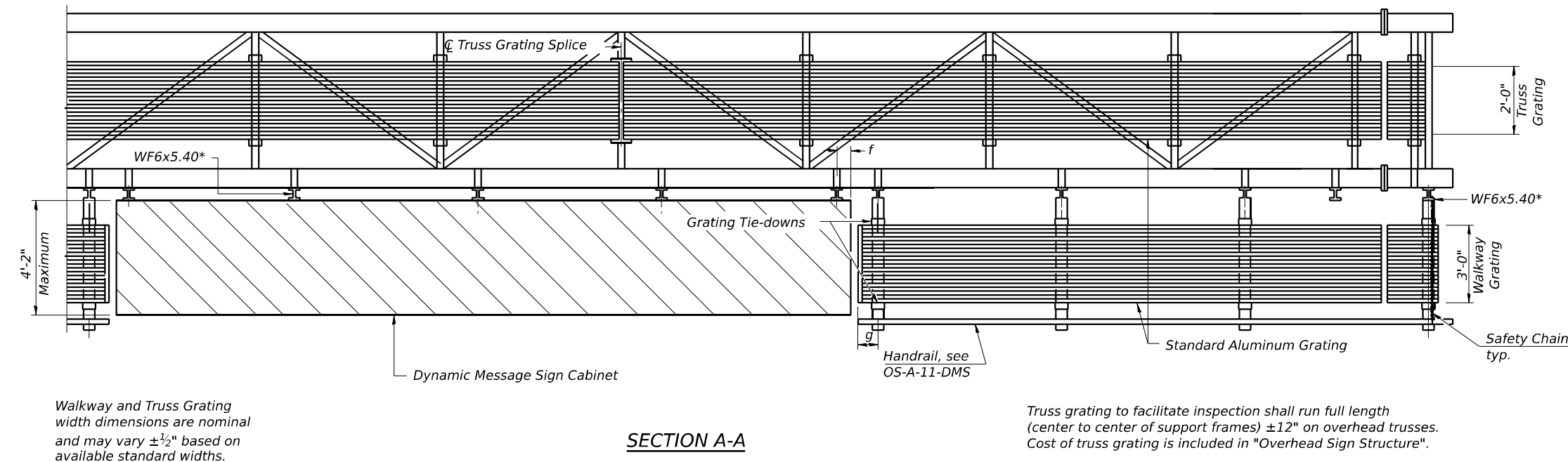
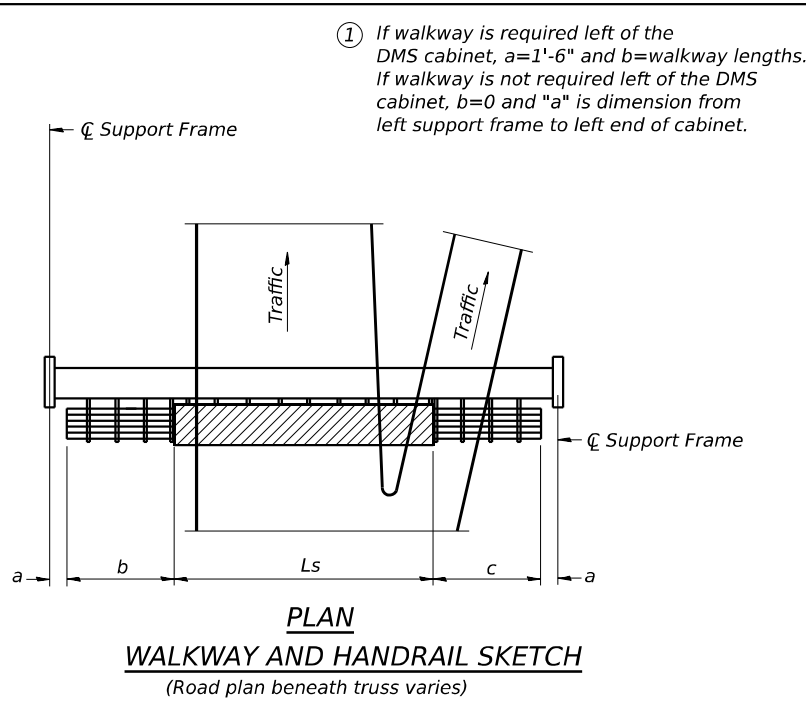
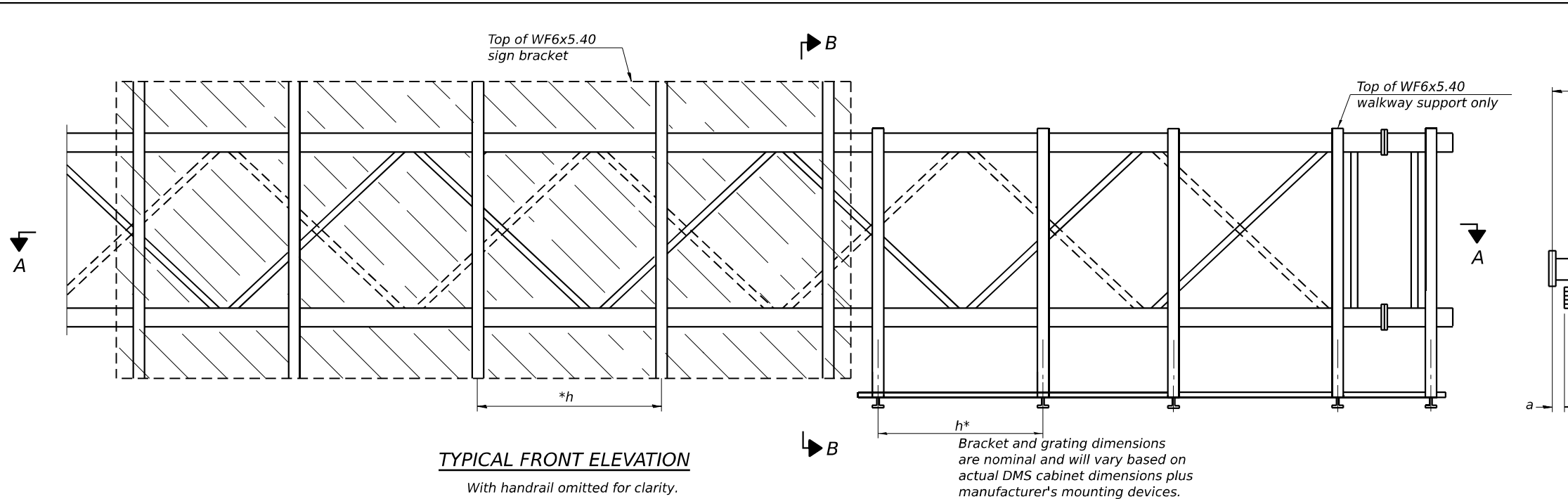
SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

TYPE III-A TRUSS
12" Ø PIPE SUPPORT FRAME DETAILS

- ① 1³/₄" Ø rod, 2" Ø holes
- ② 2³/₄" edge distance
- ③ Base P 1⁵/₈" x 1'-11¹/₂" x 1'-11¹/₂"

Model: Default
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WF6x5.40 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

Structure Number	Station	a	b	c	Ls	Walkway Grating and Handrail Lengths
1S099I080R129.0	500+85	1'-6"	15'-0"	37'-0"	30'-0"	52'-0"

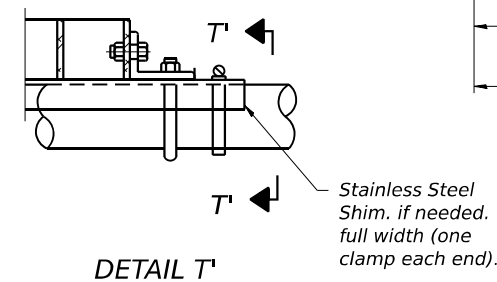
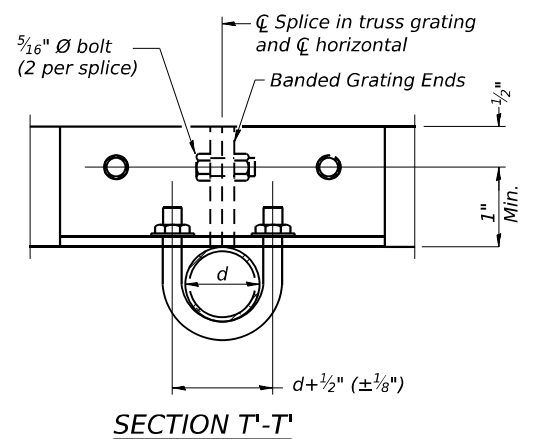
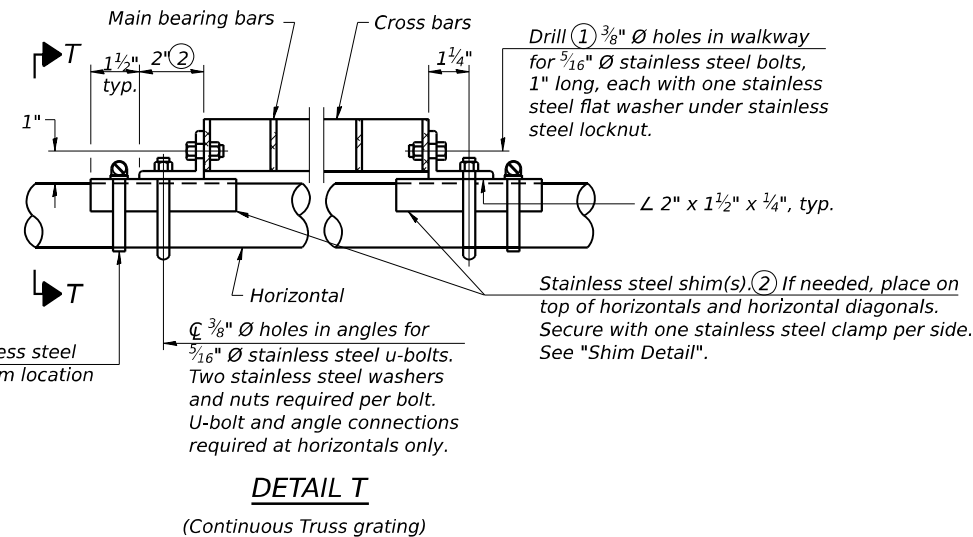
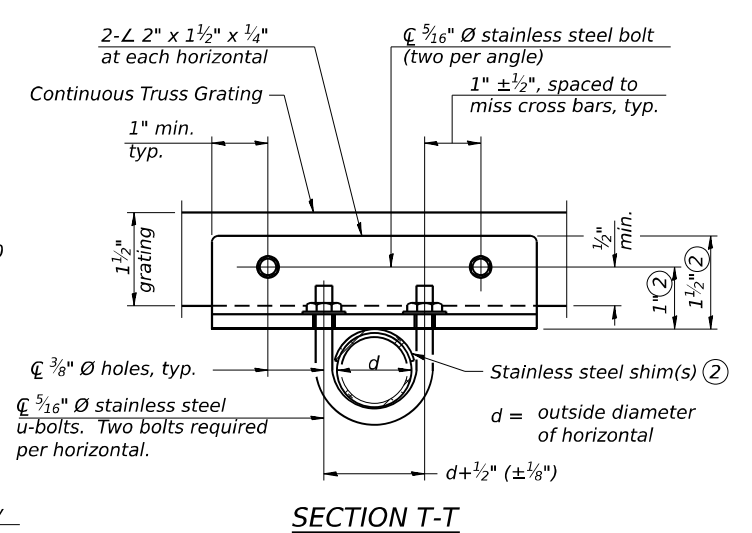
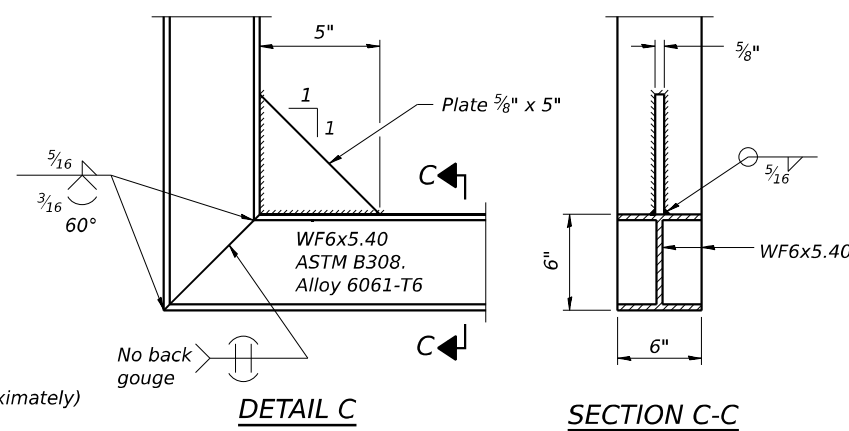
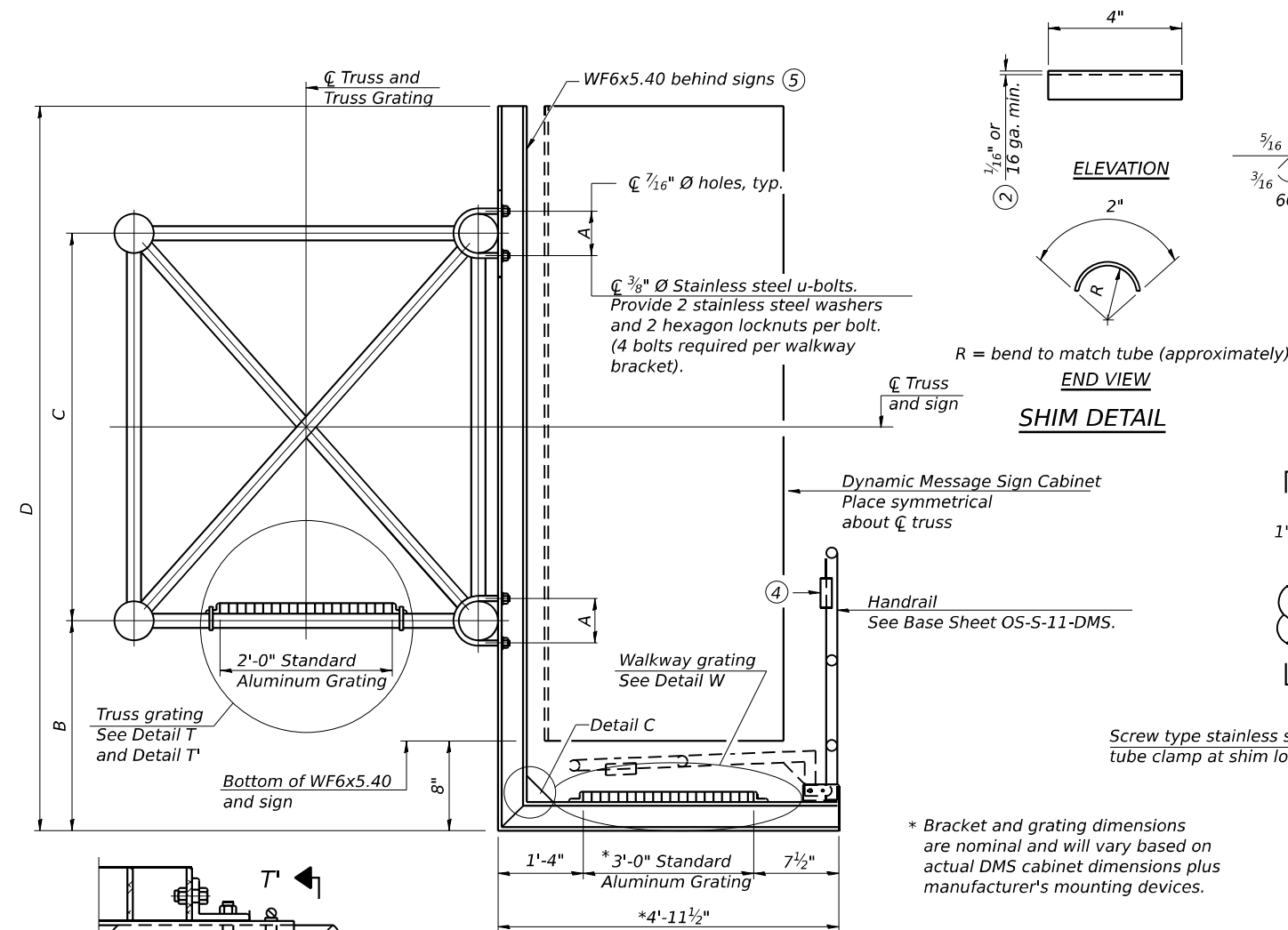
Notes:
* Space walkway brackets WF6x5.40 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ϕ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ϕ of nearest support bracket)
h = 6'-0" maximum (ϕ to ϕ sign and/or walkway support brackets, WF6x5.40)

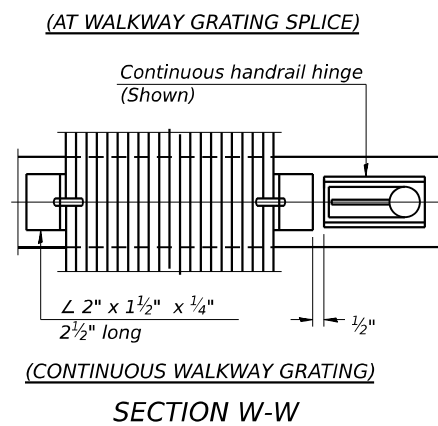
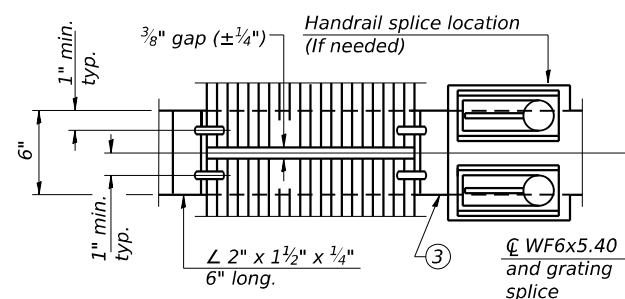
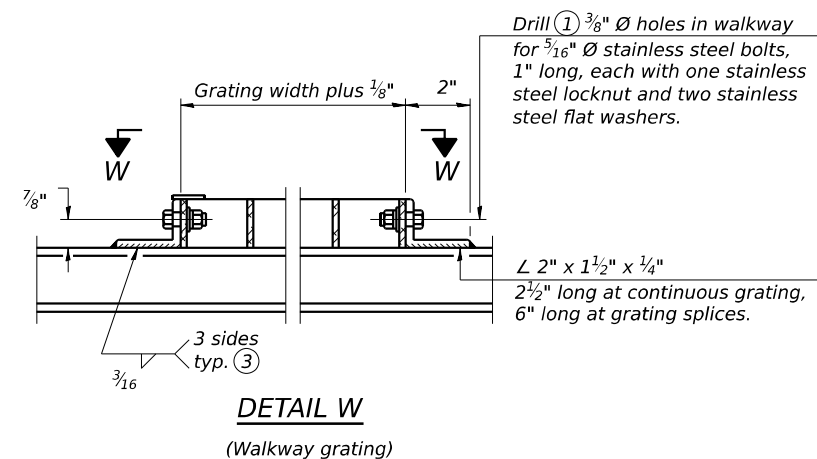
Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.
For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.
For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

OS-A-9-DMS 2-17-2017

	USER NAME = RussellBr	DESIGNED - CS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 31.9987' / in.	DRAWN - CS	REVISED -						I-80	FAI 80 21 STRUCTURE 6	WILL	898	506
	PLOT DATE = 6/15/2023	CHECKED - BAR	REVISED -		CONTRACT NO. 62R27								
	SCALE:				SHEET 7	OF 12 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the
Engineer's review and approval.



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be $\frac{3}{16}$ " x $1\frac{1}{2}$ " on $1\frac{3}{16}$ " centers and conform to ASTM B211 Alloy 6061-T6.

Cross bars shall be $\frac{3}{16}$ " x $1\frac{1}{2}$ " on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

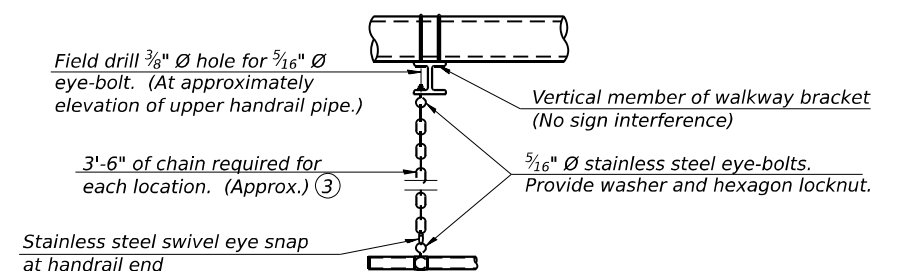
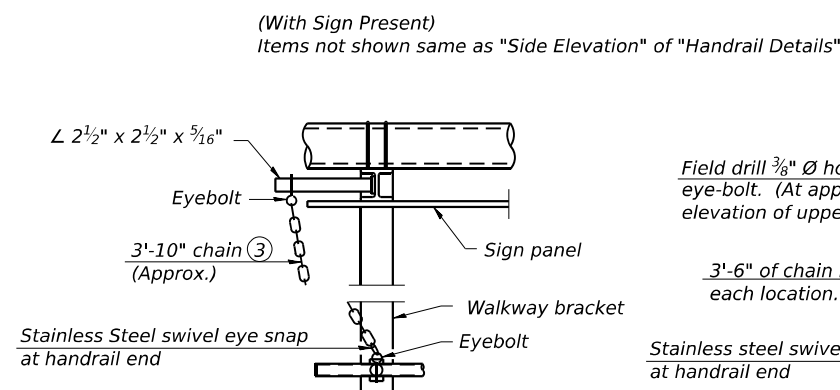
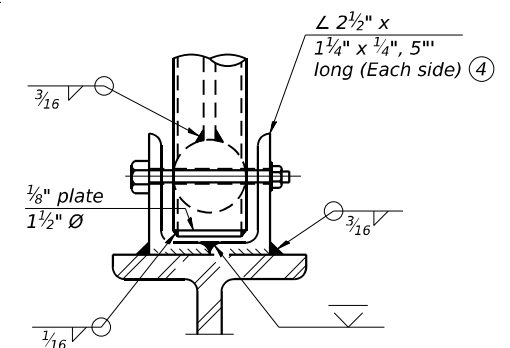
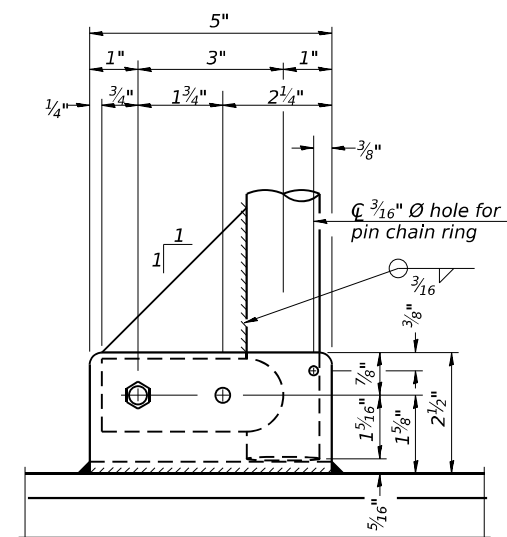
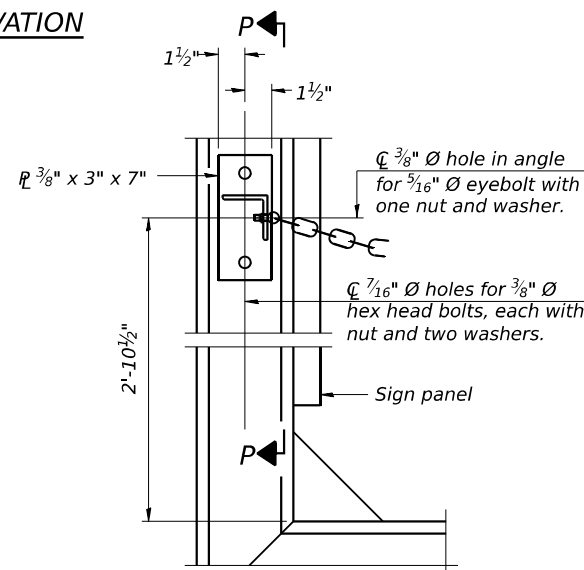
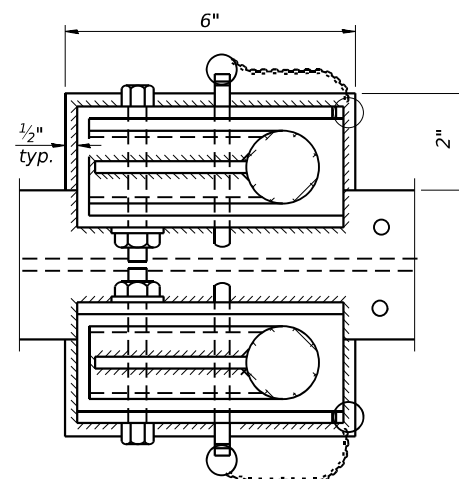
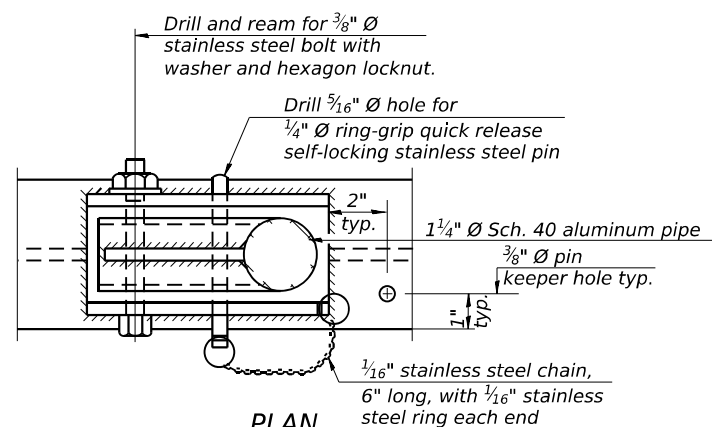
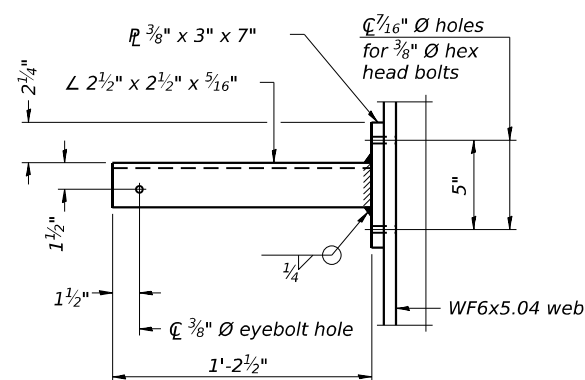
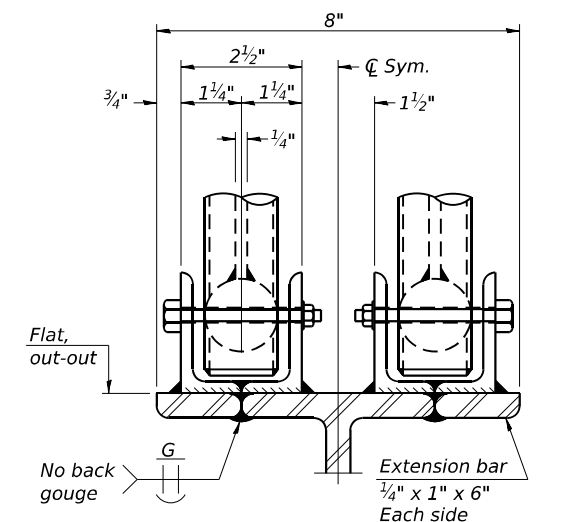
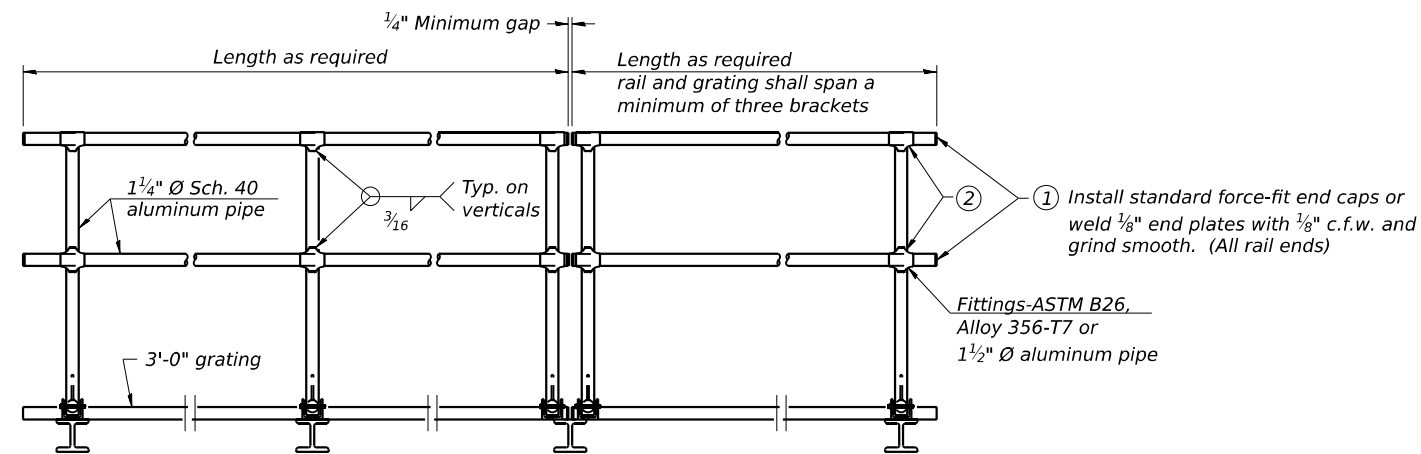
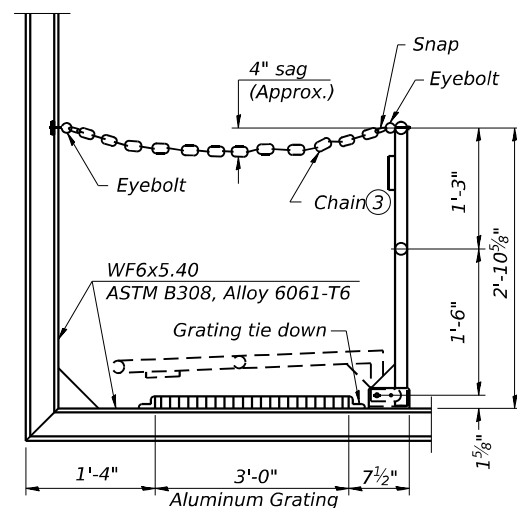
Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

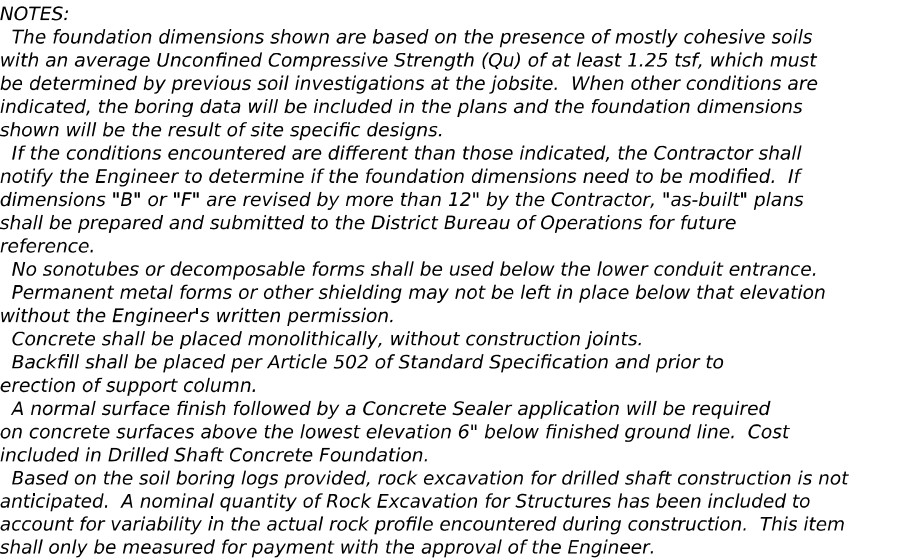
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1½", spaced on 1⅜" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

[illegible]

- ① *Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.*
- ② *Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.*
- ③ *If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11-DMS.)*
- ④ *℄ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.*
- ⑤ *Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.*
- ⑥ *Based on actual height of tallest sign given on OS-A-1.*





Bar	Number	Size	Length	Shape
<i>h(E)</i>	14	#4	<i>M less 4"</i>	——
<i>s(E)</i>	Varies	#5	Varies	□
<i>v(E)</i>	16	#9	<i>F less 0'-5"</i>	——
<i>v(E)</i>	24	#9	<i>F less 0'-5"</i>	——
#4(E) bar spiral. See Side Elevation				

[illegible]



wangeng@wangeng.com
1145 N. Main Street
Lombard, IL 60148
Telephone: 630-953-9928
Fax: 630-953-9938

BORING LOG DMS1-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
Project **I-80 Reconstruction (Houbolt Rd to Center St)**
Location **Will County, Illinois**

Datum: NAVD 88
Elevation: 597.68 ft
North: 1761565.01 ft
East: 1033449.04 ft
Station: 499+92.91
Offset: 34.710 RT

Page 1 of 1

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	597.61	11-inch thick ASPHALT								597.2	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, little gravel; wet						
	596.7	--PAVEMENT-- Hard, brown SILTY CLAY LOAM, trace to little gravel; damp			1	7 8 12	4.50 P	11			--RDR 2-3--			9	12 9 17	2.50 P	13
		--FILL-- --RDR 2--			2	6 6 8	4.50 P	15						10	11 43 40	2.50 P	9
			5														
					3	4 5 9	4.50 P	14		571.7	--AUGER REFUSAL @ 26'-- Boring terminated at 26.00 ft						
	589.7	Hard, black SILTY CLAY, trace gravel; damp			4	4 5 6	5.00 B	22									
		--Buried TOPSOIL-- --RDR 2--	10														
	587.2	Very stiff, brown and gray CLAY to SILTY CLAY, trace gravel; damp			5	2 3 3	2.46 B	23									
		--wet silt seam @ 12'-- --RDR 2--															
	584.7	Loose, gray SILTY LOAM; wet			6	0 2 2	1.50 P	26									
		--RDR 2--															
	583.2	Stiff, brown and gray CLAY to SILTY CLAY, trace gravel; damp	15														
		--RDR 2--			7	2 3 2	1.97 B	28									
	579.7	Medium dense, gray and brown SANDY GRAVEL; wet			8	3 6 10	NP	15									
		--RDR 2--	20														
GENERAL NOTES									WATER LEVEL DATA								
Begin Drilling			01-27-2023			Complete Drilling			01-27-2023			While Drilling			12.00 ft		
Drilling Contractor			Wang Testing Services			Drill Rig			20CME55T[81%]			At Completion of Drilling			15.00 ft		
Driller			KG&TC			Logger			B. Miller			Time After Drilling			NA		
Checked by			J. Bensen			Depth to Water			NA			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.					
Drilling Method			3.25" IDA HSA; boring backfilled upon completion														



wangeng@wangeng.com
1145 N. Main Street
Lombard, IL 60148
Telephone: 630-953-9928
Fax: 630-953-9938

BORING LOG DMS1-02

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
Project **I-80 Reconstruction (Houbolt Rd to Center St)**
Location **Will County, Illinois**

Datum: NAVD 88
Elevation: 593.52 ft
North: 1761527.53 ft
East: 1033479.67 ft
Station: 499+85.65
Offset: 82.565 RT

Page 1 of 1

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.9	7-inch thick, black and dark brown SILTY CLAY LOAM								572.0	--cobble fragments--			9		NP	10
		--TOPSOIL-- Very stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel			1	3 4 8	4.35 B	19			--AUGER REFUSAL-- Boring terminated at 21.50 ft						
		--RDR 2-- --FILL--			2	3 6 7	4.50 P	15									
			5														
	587.0	--(2.75 P)-- Stiff, black SILTY CLAY			3	2 3 6	1.31 B	24									
		--Buried TOPSOIL--															
	585.5	Stiff, dark brown CLAY LOAM			4	2 2 2	1.25 P	20									
		--RDR 2--	10														
	583.0	Stiff to hard, brown SILTY CLAY to CLAY, trace gravel			5	3 5 10	4.51 B	20									
		--RDR 2--															
			15														
	578.0	Medium dense to very dense, brown SANDY GRAVEL; saturated			7	5 11 17	NP	14									
		--RDR 3-4--			8	4 12 12	NP	19									
			20														
GENERAL NOTES									WATER LEVEL DATA								
Begin Drilling			02-28-2023			Complete Drilling			02-28-2023			While Drilling			15.50 ft		
Drilling Contractor			Wang Testing Services			Drill Rig			21GeoA[96%]			At Completion of Drilling			16.50 ft		
Driller			AG&EH			Logger			F. Bozga			Time After Drilling			NA		
Checked by			J. Bensen			Depth to Water			NA			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.					
Drilling Method			2.25" IDA HSA; boring backfilled upon completion														



USER NAME = RussellBr
PLOT SCALE = 31.9987' / in.
PLOT DATE = 6/15/2023

DESIGNED - CS
DRAWN - CS
CHECKED - BAR
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
BORING LOGS

SCALE: SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	511
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled square on top easterly side of concrete foundation for the cantilevered highway sign over I-80, east of the gore at I-80 west bound and I-80 west bound on ramp, south side of ramp, north side of I-80, west of Houbolt; Elev.=591.589.

Existing Structure: S.N. 099-0301 and S.N. 099-0302. Built in 1994 and 1993 respectively as F.A.I. Rte. 80, Project HDP-9105(001), Section 99-2(K & HB-1-R) at Sta. 151+86.42. Existing dual structures each consist of a single-span reinf. concrete composite deck on steel plate girders supported by cast-in-place reinforced concrete integral abutments supported on steel piles. The bridge measures 148'-7" back to back abutments, 45'-2" out to out width with a skew of 14°-03'-57" skew. Deck to be removed and replaced.

Traffic Control: Traffic to be maintained using staged construction. The road shall remain open to at least two lanes of traffic in each direction at all times.

Salvage: None.

DESIGN SPECIFICATIONS

2002 Standard Specifications
for Highway Bridges, 17th
Edition

DESIGN STRESSES

FIELD UNITS (New Const.)	FIELD UNITS (Exist. Const.)
f _c = 3,500 psi	f _c = 3,500 psi
f _c = 4,000 psi (Superstructure)	f _y = 60,000 psi (Reinforcement)
f _y = 60,000 psi (Reinforcement)	f _y = 36,000 psi (M270 Grade 36)
f _y = 50,000 psi (M270 Grade 50)	
f _y = 36,000 psi (M270 Grade 36)	

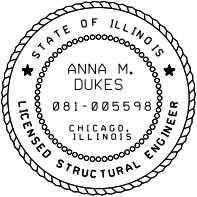
LOADING HS20-44 & ALT.

Allow 25#/sq. ft. for future wearing surface.

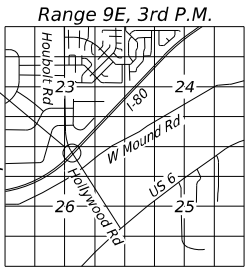
SEISMIC DATA

Seismic Performance Category (SPC) = A
Horizontal Bedrock Acceleration Coefficient (A) = 0.039g
Site Coefficient (S) = 1.0

APPROVED
For Structural Adequacy Only
Anna M. Dukes
Engineer of Bridges & Structures



Anna Dukes
ANNA M. DUKES, S.E.
NO. 081-005598
EXP. DATE 11/30/2024



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
I-80 OVER HOUBOLT ROAD

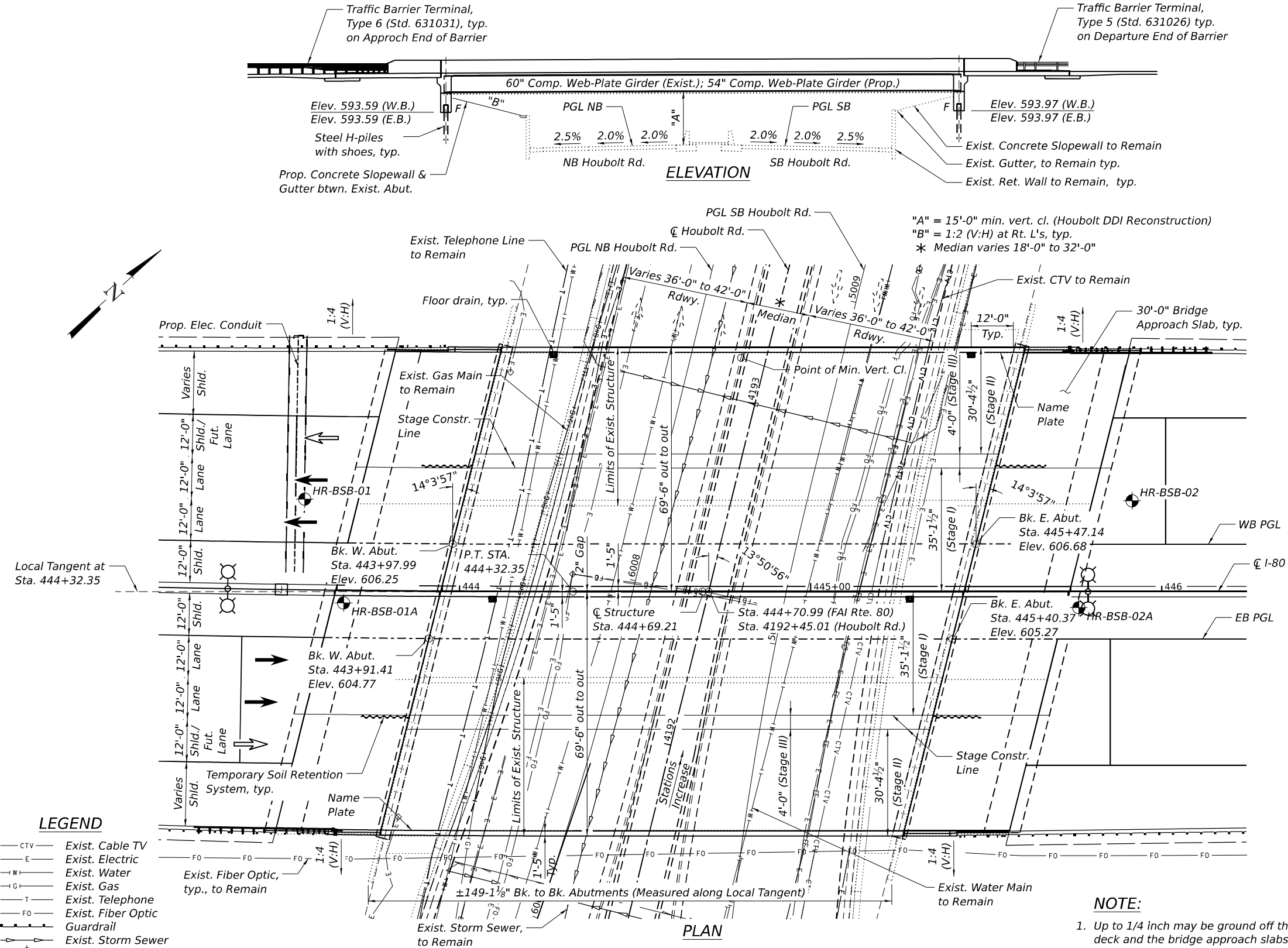
F.A.I. RTE. 80 - SEC. FAI 80 21 STRUCTURE 6

WILL COUNTY

STATION 444+69.21

S.N. 099-0301 (E.B.)

S.N. 099-0302 (W.B.)



TRANSYSTEMS

USER NAME = amkluver	DESIGNED - TJA	REVISED -
PLOT SCALE = NTS	CHECKED - AMD	REVISED -
PLOT DATE = 6/23/2023	DRAWN - TJA	REVISED -
	CHECKED - WJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S1-01 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	512
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

MODEL: Drawing
FILE NAME: pw://transystems-pw.bentley.com:transcorp-pw1-hosted/Documents/Projects_2018/CH401/401.180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-002-GenData1.dgn

GENERAL NOTES

1.

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts. Bolts 7⁄8 in. Φ holes 15⁄16 in. Φ, unless otherwise noted.
2.

Calculated weight of Structural Steel
M270 Grade 50 = 543,650
M270 Grade 36 = 27,280
3.

No field welding is permitted except as specified in the contract documents.
4.

Reinforcement bars designated (E) shall be epoxy coated.
5.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC – SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
6.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
7.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1.

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) and per Commercial Grade Power Tool Cleaning (SSPC-SP15) shall be painted according to the requirements of paint system OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1.
8.

Cleaning and painting of the existing structural steel shall be as specified in the special provisions for “Cleaning and Painting Existing Steel Structures”. All beams, bearings, and other structural steel within 5 ft (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10). The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning (SSPC-SP15).

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) and per Commercial Grade Power Tool Cleaning (SSPC-SP15) shall be painted according to the requirements of paint system OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1.
9.

Containment of cleaning residue is required to control nuisance dust. See special provisions.
10.

Slipforming of the interior parapets is not allowed.

INDEX OF SHEETS

- S1-01 General Plan and Elevation
- S1-02 General Data 1
- S1-03 General Data 2
- S1-04 Foundation Layout
- S1-05 Removal Details and TSRS
- S1-06 Construction Staging Details 1
- S1-07 Construction Staging Details 2
- S1-08 Temporary Concrete Barrier
- S1-09 Top of Deck Elevations 1
- S1-10 Top of Deck Elevations 2
- S1-11 Top of Deck Elevations 3
- S1-12 Top of Deck Elevations 4
- S1-13 Top of Deck Elevations 5
- S1-14 Top of Deck Elevations 6
- S1-15 Top of West Approach Slab Elevations
- S1-16 Top of East Approach Slab Elevations
- S1-17 Superstructure Plan and Cross Section - WB
- S1-18 Superstructure Plan and Cross Section - EB
- S1-19 Parapet Elevation
- S1-20 Parapet Details
- S1-21 West Abutment Diaphragm
- S1-22 East Abutment Diaphragm
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- S1-24 Superstructure Details 2
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- S1-33 Existing Girder Details 2
- S1-34 Girder Elevation & Details
- S1-35 Structural Steel Details
- S1-36 Abutment Removal Details 1
- S1-37 Abutment Removal Details 2
- S1-38 West Abutment Plan and Elevation
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- S1-40 East Abutment Plan and Elevation
- S1-41 East Abutment Details
- S1-42 Abutment Bar Details and Bill of Material
- S1-43 Pile Details
- S1-44 Concrete Parapet Slipforming Option
- S1-45 Bar Splicer and Mechanical Splicer Assembly Details
- S1-46 Boring Logs 1
- S1-47 Boring Logs 2

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Slope Wall Removal	Sq. Yd	-	252	252
Removal Of Existing Concrete Deck No. 1	Each	1	-	1
Removal Of Existing Concrete Deck No. 2	Each	1	-	1
Concrete Removal	Cu. Yd.	-	130.5	130.5
Protective Shield	Sq. Yd.	1,201	-	1,201
Structure Excavation	Cu. Yd.	-	699.6	699.6
Floor Drains	Each	4	-	4
Concrete Structures	Cu. Yd.	-	166.7	166.7
Concrete Superstructure	Cu. Yd.	936.3	-	936.3
Protective Coat	Sq. Yd.	3,545	-	3,545
Concrete Superstructure (Approach Slab)	Cu. Yd.	390.4	-	390.4
Furnishing And Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	1,920	-	1,920
Reinforcement Bars, Epoxy Coated	Pound	314,420	30,710	345,130
Bar Splicers	Each	2,096	160	2,256
Mechanical Splicers	Each	48	-	48
Slope Wall 4 Inch	Sq. Yd.	-	222	222
Furnishing Steel Piles HP14X73	Foot	-	962	962
Driving Piles	Foot	-	962	962
Test Pile Steel HP14X73	Each	-	2	2
Pile Shoes	Each	-	28	28
Name Plates	Each	2	-	2
Preformed Joint Seal 3 1/2"	Foot	210	-	210
Anchor Bolts, 1"	Each	32	-	32
Temporary Soil Retention System	Sq. Ft.	-	740	740
Granular Backfill For Structures	Cu. Yd.	-	856.9	856.9
Geocomposite Wall Drain	Sq. Yd.	-	350	350
Concrete Headwalls For Pipe Drains	Each	-	4	4
Pipe Underdrains For Structures 4"	Foot	-	344	344
Pipe Underdrains For Structures (Special) 4"	Foot	-	160	160
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,674	-	1,674
Containment And Disposal Of Non-Lead Paint Cleaning Residues No. 1	L. Sum	1	-	1
Containment And Disposal Of Non-Lead Paint Cleaning Residues No. 2	L. Sum	1	-	1
Structural Steel Removal	L. Sum	1	-	1
Cleaning And Painting Steel Bridge No. 1	L. Sum	1	-	1
Cleaning And Painting Steel Bridge No. 2	L. Sum	1	-	1
Diamond Grinding (Bridge Section)	Sq. Yd.	3,226	-	3,226

STATION 444+69.21
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 80
SEC. FAI 80 21 STRUCTURE 6
LOADING HS20-44 & ALT
STRUCTURE NO. 099-0301

NAME PLATE (EB)
See Std. 515001

STATION 444+69.21
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 80
SEC. FAI 80 21 STRUCTURE 6
LOADING HS20-44 & ALT
STRUCTURE NO. 099-0302

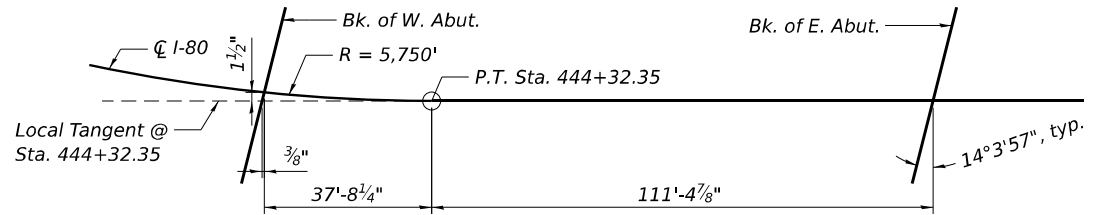
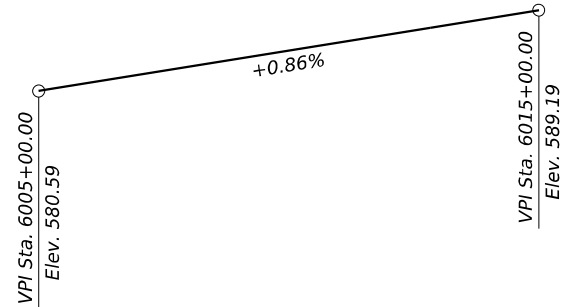
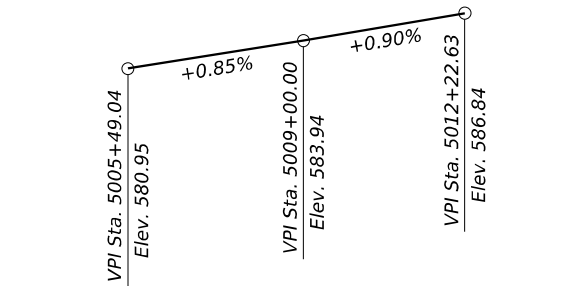
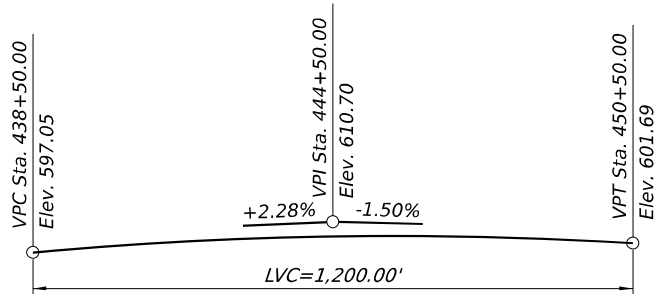
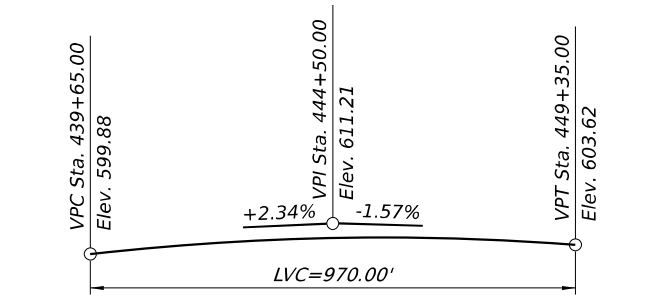
NAME PLATE (WB)
See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

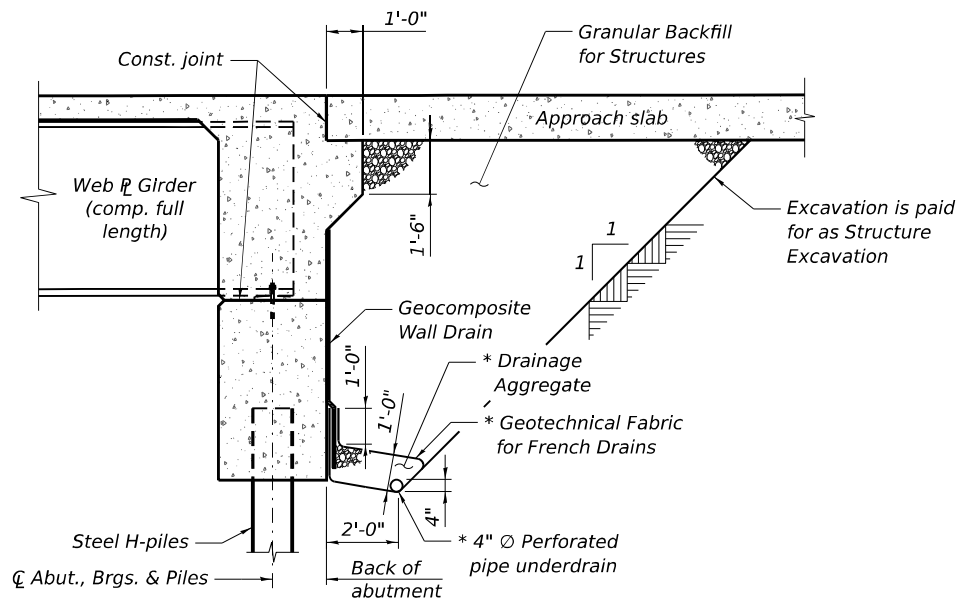
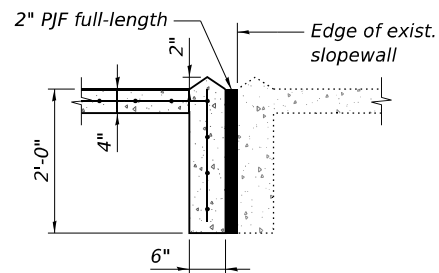
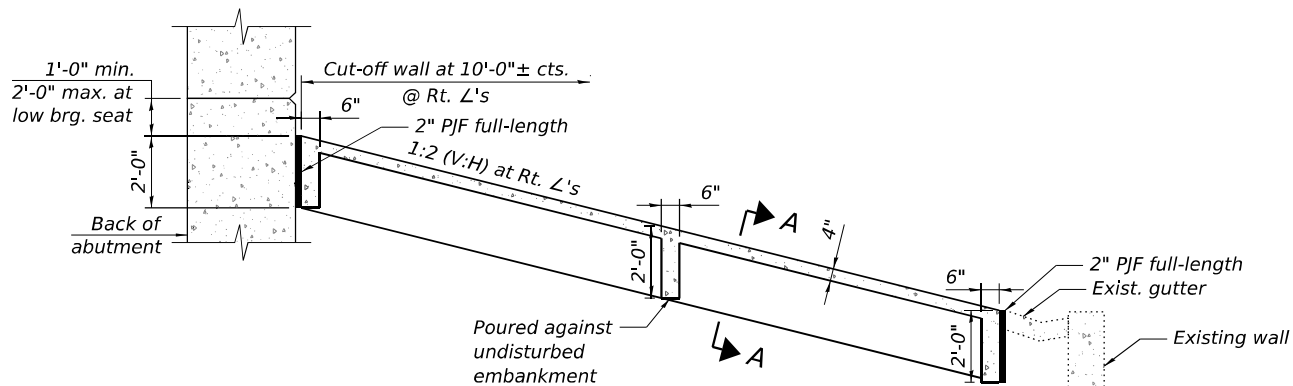
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		CHECKED - AMD	REVISED -	
	PLOT SCALE = NTS	DRAWN - TJA	REVISED -	
	PLOT DATE = 7/27/2023	CHECKED - WJC	REVISED -	

GENERAL DATA 1		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)		I-80	FAI 80 21 STRUCTURE 6	WILL	898	513
SHEET S1-02 OF S1-47 SHEETS		ILLINOIS FED. AID PROJECT				

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CURVE DATA
PROP. CURVE BL_PR_I80_W_1
P.I. STA. = 442+52.00
 $\Delta = 46^\circ 06' 50''$ (LT)
 $D = 0^\circ 59' 47''$
 $R = 5,750.00'$
 $T = 2,447.48'$
 $L = 4,627.83'$
 $E = 499.21'$
 $e = -3.40\%$
 $T.R. = 107'$
 $S.E. RUN = 255'$
 $P.C. STA. = 398+04.52$
 $P.T. STA. = 444+32.35$



Note:
All Drainage system components shall extend to 2'-0" from the end of each wingwall except on outlet pipe shall extend until intersection with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TRANSYSTEMS

USER NAME = amkluver	DESIGNED - TJA	REVISED -
	CHECKED - AMD	REVISED -
PLOT SCALE = NTS	DRAWN - TJA	REVISED -
PLOT DATE = 6/23/2023	CHECKED - WJC	REVISED -

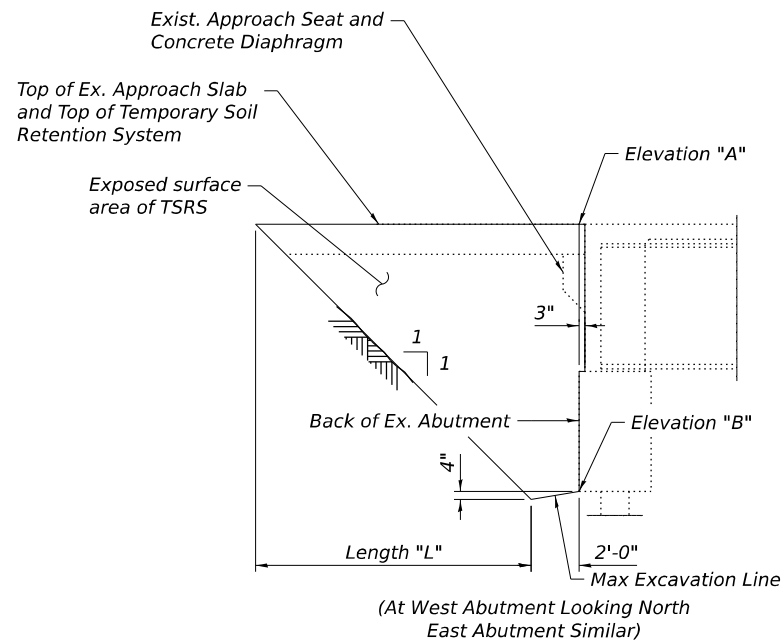
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA 2
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

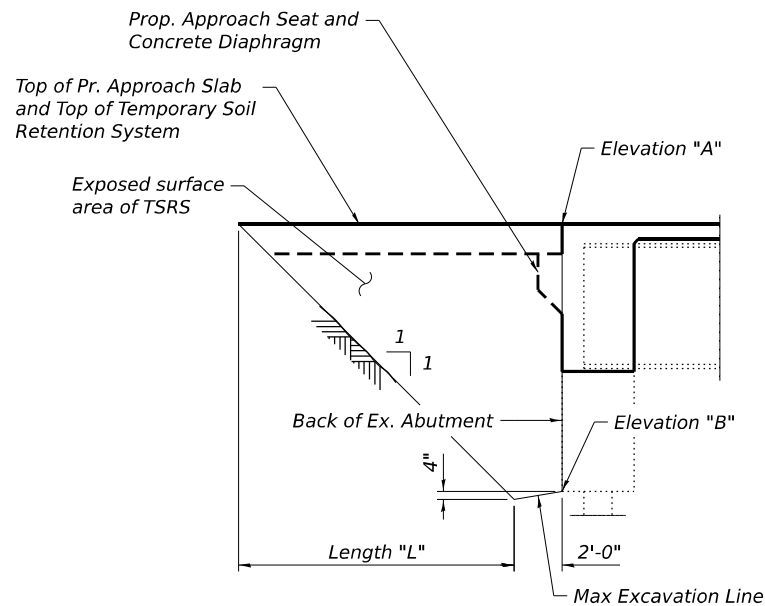
SHEET 51-03 OF 51-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	514
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

MODEL: Drawing View
FILE NAME: pw:///transystems-pw-bentley.com/transystems-pw-bentley.com/Projects/2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-005-Ex-RemovalTSRS.dgn



STAGE I TSRS



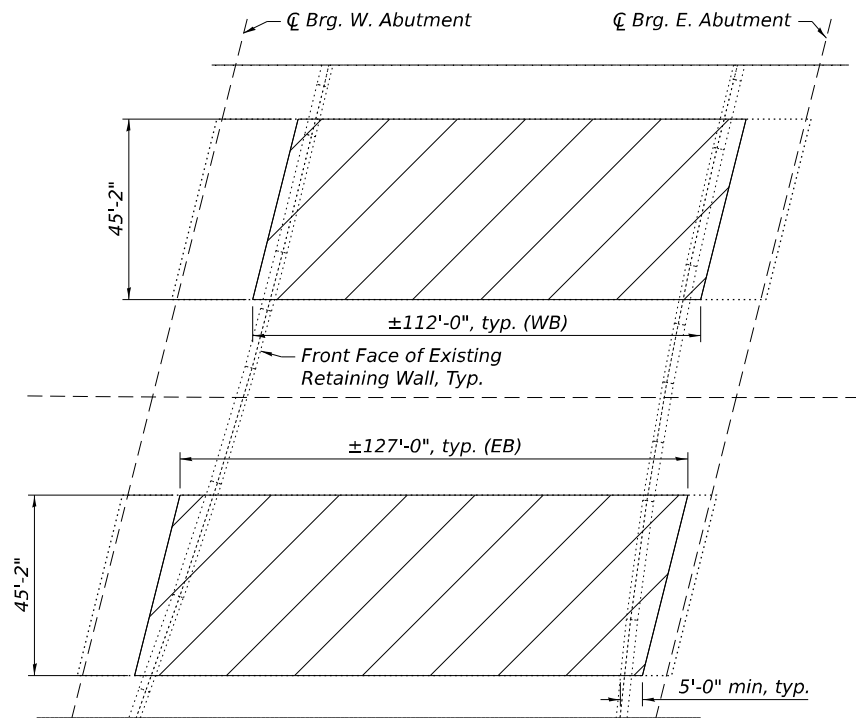
STAGE II TSRS

(At West Abutment Looking North
East Abutment Similar)

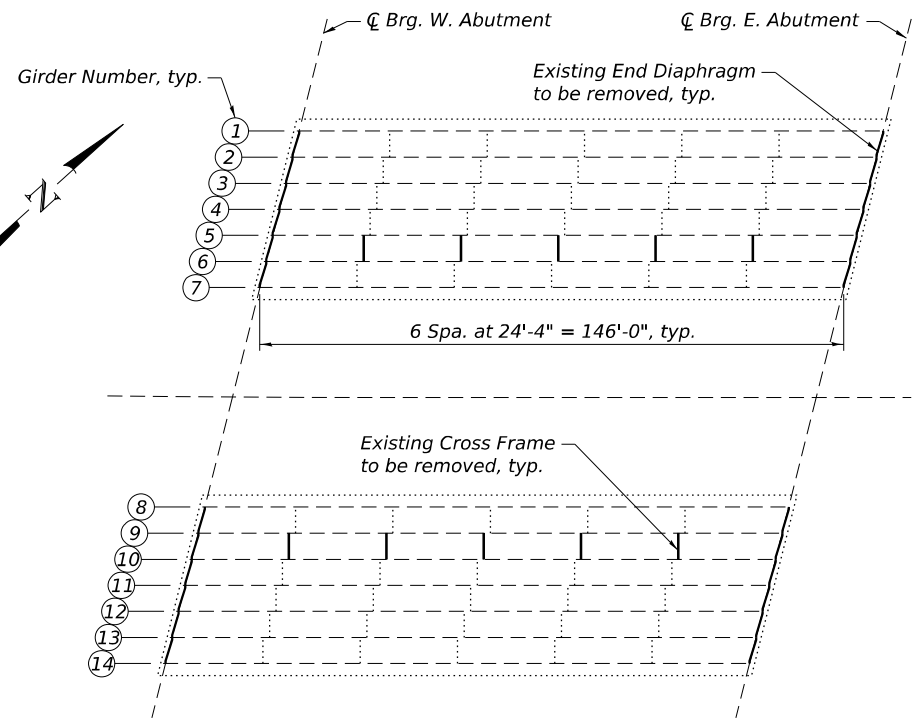
Location	Stage	"A"	"B"	"L"
Westbound West Abutment	Stage I	605.24	593.59	12'-0"
	Stage II	605.52	593.59	12'-4"
Westbound East Abutment	Stage I	605.64	593.97	12'-1"
	Stage II	605.92	593.97	12'-4"
Eastbound West Abutment	Stage I	604.91	593.59	11'-8"
	Stage II	605.44	593.59	12'-3"
Eastbound East Abutment	Stage I	605.44	593.97	11'-9"
	Stage II	605.97	593.97	12'-3"

Note:

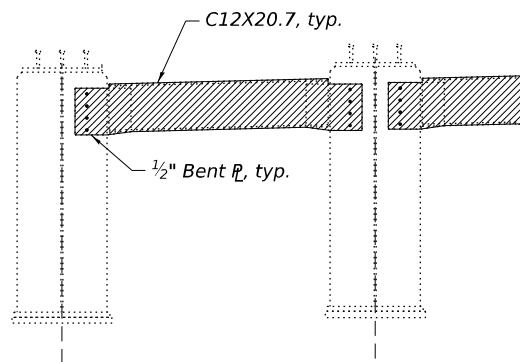
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



PROTECTIVE SHIELD LIMITS

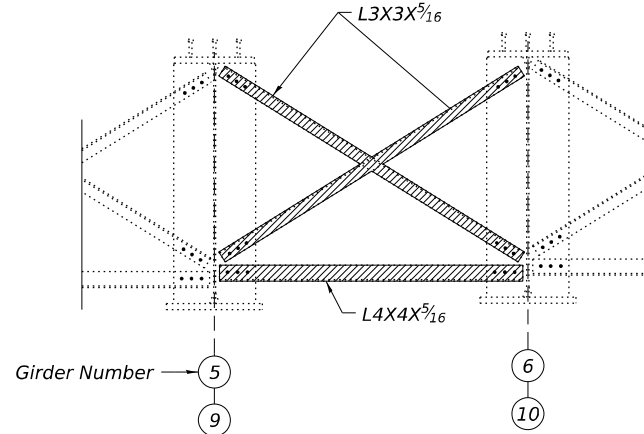


STRUCTURAL STEEL REMOVAL - KEY PLAN



EXISTING END DIAPHRAGM REMOVAL

24 Required



EXISTING CROSS FRAME REMOVAL

10 Required
(Looking East)

Structural Steel Removal
(See Special Provisions)

BILL OF MATERIAL
(For Information Only)

Item	Unit	Total
Structural Steel Removal	Pounds	3,780

TRANSYSTEMS

USER NAME = amkluver	DESIGNED - TJA	REVISED -
PLOT SCALE = NTS	CHECKED - AMD	REVISED -
PLOT DATE = 7/27/2023	DRAWN - TJA	REVISED -
	CHECKED - AMD	REVISED -

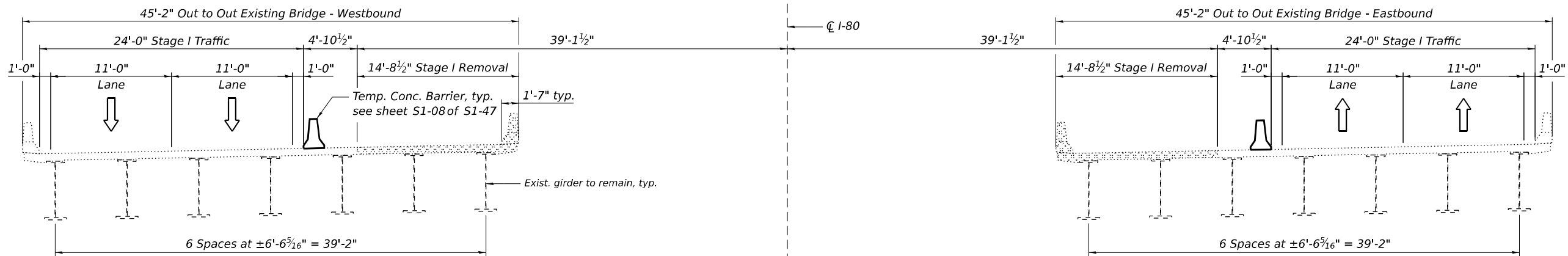
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL DETAILS AND TSRS
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)**

SHEET S1-05 OF S1-47 SHEETS

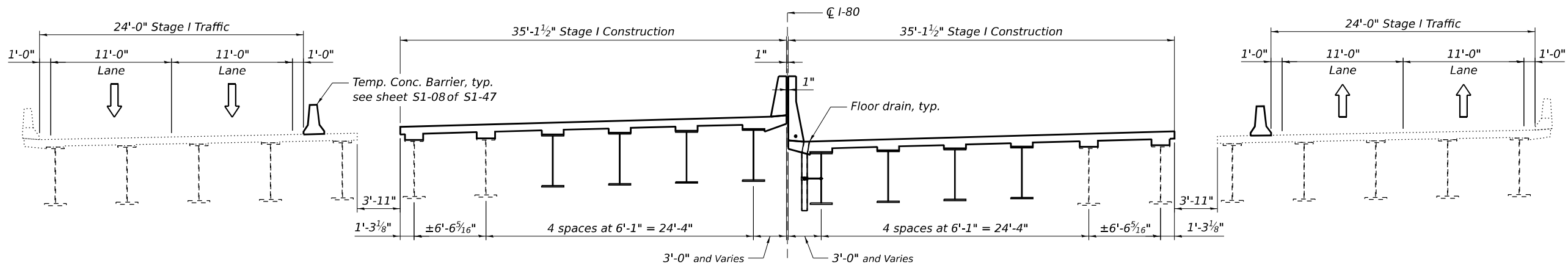
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	516
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

MODEL: Drawing
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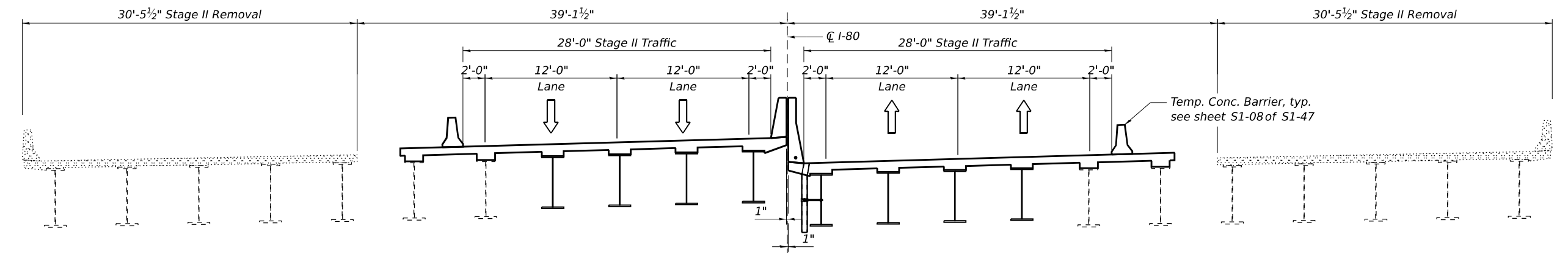
STAGE I REMOVAL

(Looking East)



STAGE I CONSTRUCTION

(Looking East)



STAGE II REMOVAL

(Looking East)

Notes:
For quantity of concrete barriers, see Rdwy Plans.
Hatched area indicates Removal of Existing Concrete Deck
No. 1 or No. 2.

TRANSYSTEMS

USER NAME	=	amkluver	DESIGNED	-	BMJ	REVISED	-
			CHECKED	-	AMD	REVISED	-
PLOT SCALE	=	NTS	DRAWN	-	TJA	REVISED	-
PLOT DATE	=	7/27/2023	CHECKED	-	AMD	REVISED	-

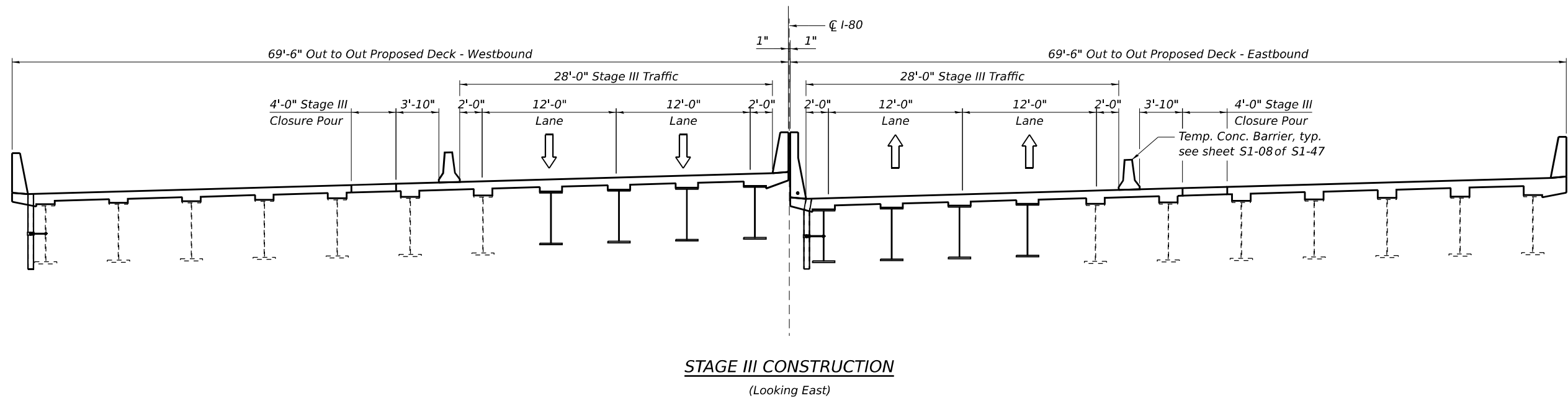
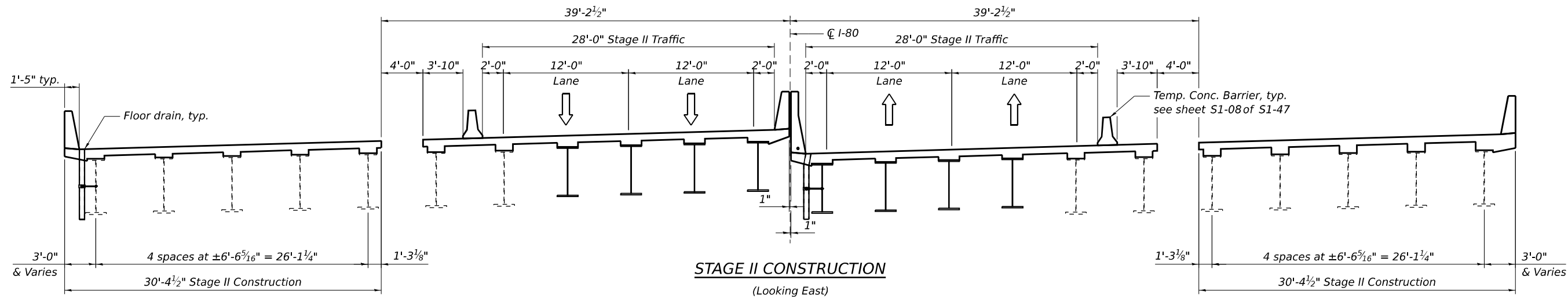
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION STAGING DETAILS 1
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET S1-06 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	517
			CONTRACT NO. 62R27	
			ILLINOIS FED. AID PROJECT	

MODEL: Drawing
FILE NAME: pw:///transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-007-StagingDetails2.dgn



Notes:
For quantity of concrete barriers, see Rdwy Plans.

TRANSYSTEMS

USER NAME	=	amkluver	DESIGNED	-	BMJ	REVISED	-
CHECKED	-	AMD	REVISED	-			
PLOT SCALE	=	NTS	DRAWN	-	BMJ	REVISED	-
PLOT DATE	=	6/23/2023	CHECKED	-	AMD	REVISED	-

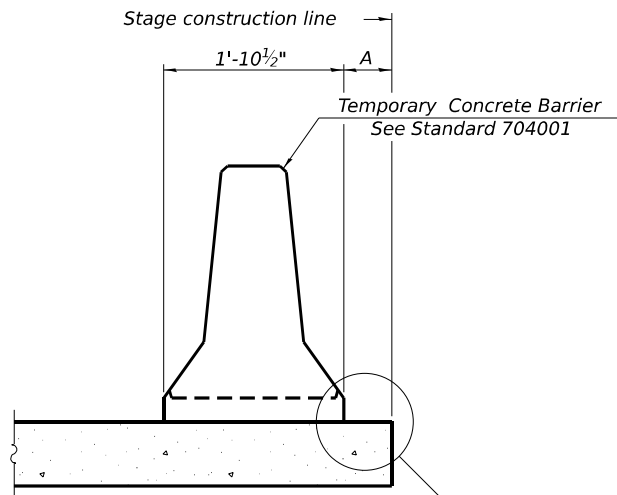
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION STAGING DETAILS 2
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET S1-07 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	518
CONTRACT NO. 62R27				
ILLINOIS			FED. AID PROJECT	

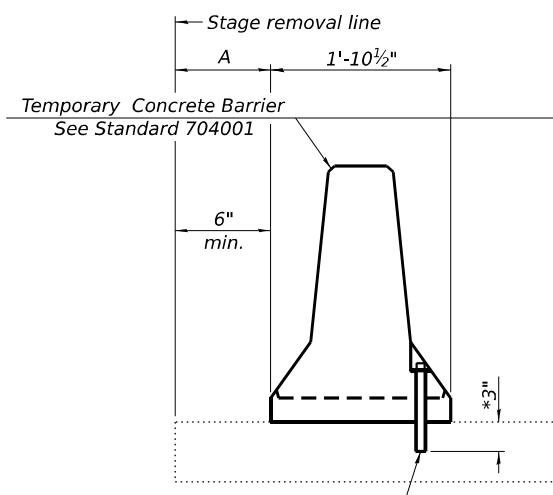
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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

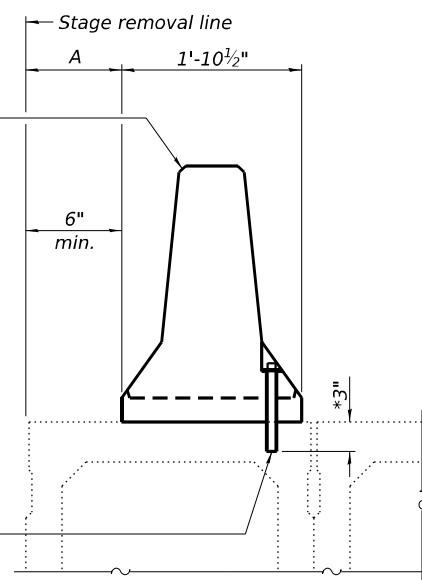
See Detail I, II or III

NEW SLAB OR NEW DECK BEAM



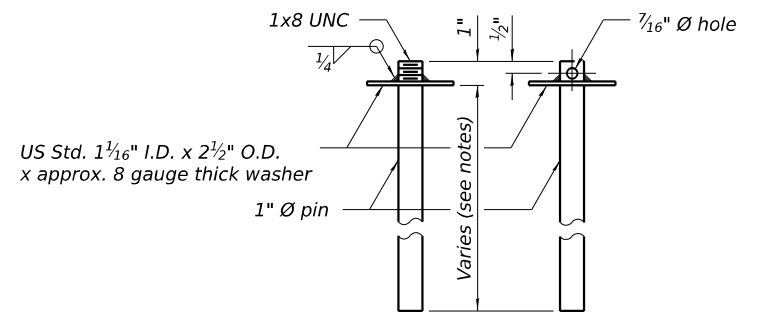
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins is included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



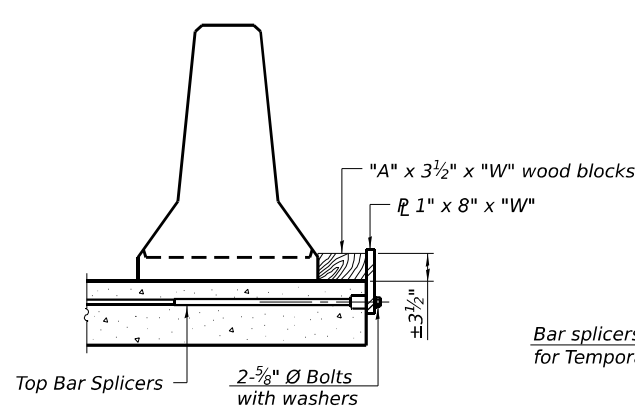
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

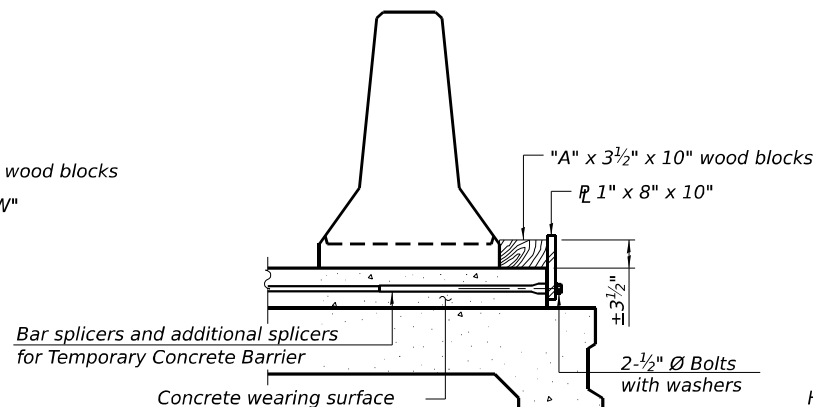


RESTRAINING PIN

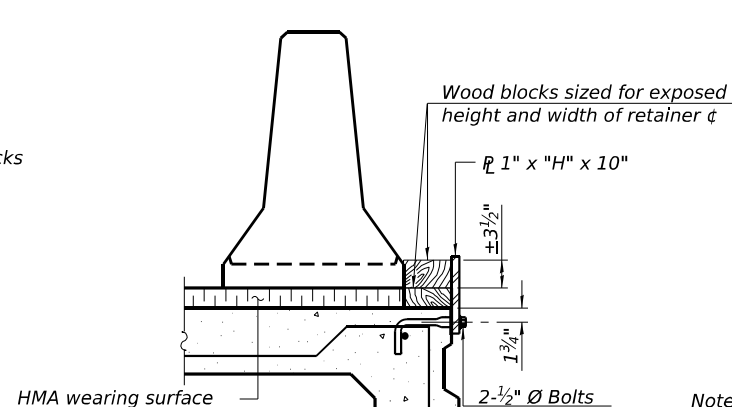
SECTIONS THRU SLAB OR DECK BEAM



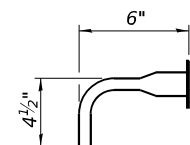
DETAIL I



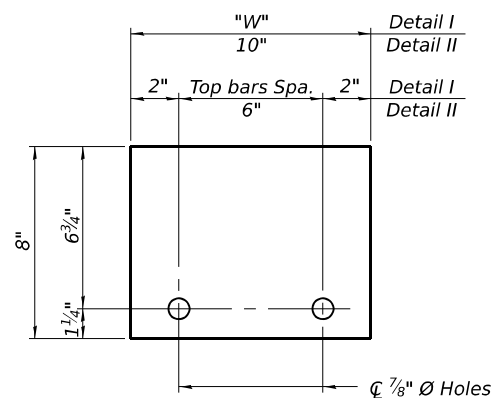
DETAIL II



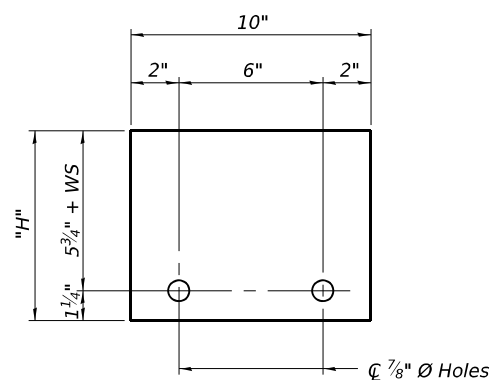
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



STEEL RETAINER ϕ 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 $\frac{1}{4}$ 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

10-12-2021

TRANSYSTEMS

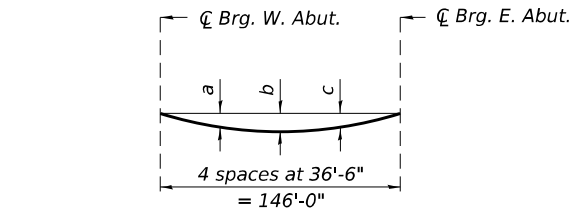
USER NAME = amkluver	DESIGNED - TJA	REVISED -
	CHECKED - AMD	REVISED -
PLOT SCALE = NTS	DRAWN - CMD	REVISED -
PLOT DATE = 6/23/2023	CHECKED - AMD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

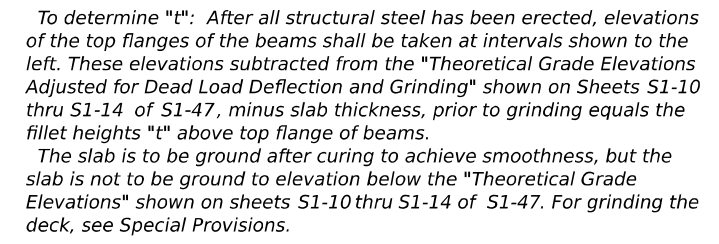
SHEET 51-08 OF 51-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	519
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				



Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on sheets S1-10 thru S1-14 of S1-47

Girder No.	a	b	c
1	2½"	3⅜"	2½"
2	2½"	3½"	2½"
3	2½"	3½"	2½"
4	2⅝"	3½"	2⅝"
5	2½"	3⅝"	2½"
6	2½"	3½"	2½"
7	2⅝"	3⅝"	2⅝"
A	2⅞"	2⅞"	2⅞"
B	2⅝"	2⅞"	2⅞"
C	2⅝"	2⅞"	2⅞"
D	2⅝"	3"	2⅞"
E	2⅝"	3"	2⅞"
F	2⅝"	2⅞"	2⅞"
G	2⅝"	2⅞"	2⅞"
H	2⅝"	2⅞"	2⅞"
8	2⅝"	3⅝"	2⅝"
9	2⅝"	3⅝"	2⅝"
10	2⅝"	3⅝"	2⅝"
11	2⅝"	3⅝"	2⅞"
12	2⅝"	3⅞"	2⅞"
13	2⅝"	4"	2⅞"
14	3¼"	4⅜"	3¼"



FILLET HEIGHTS

MODEL: Drawing
FILE NAME: pw:///transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-010-TopSlab_Deck2.dgn

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	444+11.10	-66.54	604.80	604.82
⌒ Brg. W. Abut.	444+12.67	-66.55	604.81	604.83
A	444+22.78	-66.58	604.86	604.95
B	444+32.89	-66.58	604.91	605.05
C	444+42.89	-66.58	604.95	605.15
D	444+52.89	-66.58	604.99	605.23
E	444+62.89	-66.58	605.02	605.30
F	444+72.89	-66.58	605.06	605.35
G	444+82.89	-66.58	605.08	605.39
H	444+92.89	-66.58	605.11	605.41
I	445+02.89	-66.58	605.13	605.41
J	445+12.89	-66.58	605.14	605.40
K	445+22.89	-66.58	605.15	605.38
L	445+32.89	-66.58	605.16	605.34
M	445+42.89	-66.58	605.16	605.29
N	445+52.89	-66.58	605.16	605.22
⌒ Brg. E. Abut.	445+58.89	-66.58	605.16	605.18
Bk. E. Abut.	445+60.44	-66.58	605.16	605.18

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	444+09.47	-60.01	604.97	605.00
⌒ Brg. W. Abut.	444+11.04	-60.02	604.98	605.00
A	444+21.14	-60.04	605.03	605.12
B	444+31.25	-60.06	605.08	605.23
C	444+41.24	-60.06	605.13	605.33
D	444+51.24	-60.06	605.17	605.41
E	444+61.24	-60.06	605.20	605.48
F	444+71.24	-60.06	605.24	605.53
G	444+81.24	-60.06	605.26	605.57
H	444+91.24	-60.06	605.29	605.59
I	445+01.24	-60.06	605.31	605.59
J	445+11.24	-60.06	605.32	605.59
K	445+21.24	-60.06	605.33	605.56
L	445+31.24	-60.06	605.34	605.52
M	445+41.24	-60.06	605.35	605.47
N	445+51.24	-60.06	605.35	605.41
⌒ Brg. E. Abut.	445+57.24	-60.06	605.34	605.37
Bk. E. Abut.	445+58.79	-60.06	605.34	605.36

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	444+07.85	-53.48	605.15	605.17
⌒ Brg. W. Abut.	444+09.41	-53.48	605.16	605.18
A	444+19.50	-53.51	605.21	605.30
B	444+29.60	-53.53	605.26	605.41
C	444+39.62	-53.53	605.31	605.51
D	444+49.62	-53.53	605.35	605.59
E	444+59.62	-53.53	605.38	605.66
F	444+69.62	-53.53	605.42	605.71
G	444+79.62	-53.53	605.44	605.75
H	444+89.62	-53.53	605.47	605.77
I	444+99.62	-53.53	605.49	605.78
J	445+09.62	-53.53	605.51	605.77
K	445+19.62	-53.53	605.52	605.75
L	445+29.62	-53.53	605.53	605.71
M	445+39.62	-53.53	605.53	605.66
N	445+49.62	-53.53	605.53	605.59
⌒ Brg. E. Abut.	445+55.62	-53.53	605.53	605.55
Bk. E. Abut.	445+57.17	-53.53	605.53	605.55

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	444+06.23	-46.94	605.33	605.35
⌒ Brg. W. Abut.	444+07.79	-46.95	605.34	605.36
A	444+17.87	-46.98	605.39	605.48
B	444+27.95	-47.00	605.44	605.59
C	444+37.99	-47.00	605.48	605.69
D	444+47.99	-47.00	605.52	605.77
E	444+57.99	-47.00	605.56	605.84
F	444+67.99	-47.00	605.59	605.90
G	444+77.99	-47.00	605.62	605.94
H	444+87.99	-47.00	605.65	605.96
I	444+97.99	-47.00	605.67	605.97
J	445+07.99	-47.00	605.69	605.96
K	445+17.99	-47.00	605.70	605.94
L	445+27.99	-47.00	605.71	605.90
M	445+37.99	-47.00	605.72	605.84
N	445+47.99	-47.00	605.72	605.78
⌒ Brg. E. Abut.	445+53.99	-47.00	605.72	605.74
Bk. E. Abut.	445+55.53	-47.00	605.71	605.74

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	444+04.61	-40.41	605.50	605.52
⌒ Brg. W. Abut.	444+06.17	-40.41	605.51	605.53
A	444+16.24	-40.45	605.56	605.65
B	444+26.31	-40.47	605.61	605.76
C	444+36.35	-40.47	605.66	605.86
D	444+46.35	-40.47	605.70	605.94
E	444+56.35	-40.47	605.74	606.01
F	444+66.35	-40.47	605.77	606.07
G	444+76.35	-40.47	605.80	606.11
H	444+86.35	-40.47	605.83	606.13
I	444+96.35	-40.47	605.85	606.14
J	445+06.35	-40.47	605.87	606.13
K	445+16.35	-40.47	605.88	606.11
L	445+26.35	-40.47	605.89	606.08
M	445+36.35	-40.47	605.90	606.02
N	445+46.35	-40.47	605.90	605.96
⌒ Brg. E. Abut.	445+52.35	-40.47	605.90	605.92
Bk. E. Abut.	445+53.90	-40.47	605.90	605.92

WB STAGE CONSTRUCTION LINE LT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	444+04.30	-39.14	605.54	605.56
⌒ Brg. W. Abut.	444+05.85	-39.15	605.55	605.57
A	444+15.93	-39.19	605.60	605.69
B	444+25.99	-39.20	605.65	605.80
C	444+36.04	-39.21	605.69	605.90
D	444+46.04	-39.21	605.74	605.98
E	444+56.04	-39.21	605.78	606.05
F	444+66.04	-39.21	605.81	606.10
G	444+76.04	-39.21	605.84	606.14
H	444+86.04	-39.21	605.87	606.16
I	444+96.04	-39.21	605.89	606.17
J	445+06.04	-39.21	605.91	606.17
K	445+16.04	-39.21	605.92	606.15
L	445+26.04	-39.21	605.93	606.11
M	445+36.04	-39.21	605.94	606.06
N	445+46.04	-39.21	605.94	606.00
⌒ Brg. E. Abut.	445+52.04	-39.21	605.94	605.96
Bk. E. Abut.	445+53.58	-39.21	605.94	605.96



USER NAME	=	amkluver	DESIGNED	-	TJA
			CHECKED	-	SN
PLOT SCALE	=	NTS	DRAWN	-	TJA
PLOT DATE	=	6/23/2023	CHECKED	-	WJC

REVISED	-	
REVISED	-	
REVISED	-	
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS 2
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET 51-10 OF 51-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	521
		CONTRACT NO. 62R27		
		ILLINOIS	FED. AID PROJECT	

MODEL: Drawing
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WB STAGE CONSTRUCTION LINE RT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	444+03.31	-35.14	605.64	605.66
⌒ Brg. W. Abut.	444+04.86	-35.14	605.65	605.67
A	444+14.93	-35.18	605.71	605.79
B	444+24.99	-35.20	605.76	605.91
C	444+35.03	-35.21	605.80	606.01
D	444+45.03	-35.21	605.85	606.09
E	444+55.03	-35.21	605.88	606.16
F	444+65.03	-35.21	605.92	606.22
G	444+75.03	-35.21	605.95	606.26
H	444+85.03	-35.21	605.98	606.28
I	444+95.03	-35.21	606.00	606.29
J	445+05.03	-35.21	606.02	606.28
K	445+15.03	-35.21	606.03	606.26
L	445+25.03	-35.21	606.04	606.23
M	445+35.03	-35.21	606.05	606.17
N	445+45.03	-35.21	606.05	606.11
⌒ Brg. E. Abut.	445+51.03	-35.21	606.05	606.07
Bk. E. Abut.	445+52.58	-35.21	606.05	606.07

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	444+03.00	-33.87	605.68	605.70
⌒ Brg. W. Abut.	444+04.55	-33.88	605.69	605.71
A	444+14.61	-33.92	605.74	605.83
B	444+24.67	-33.94	605.79	605.94
C	444+34.72	-33.94	605.84	606.04
D	444+44.72	-33.94	605.88	606.13
E	444+54.72	-33.94	605.92	606.19
F	444+64.72	-33.94	605.95	606.25
G	444+74.72	-33.94	605.98	606.29
H	444+84.72	-33.94	606.01	606.31
I	444+94.72	-33.94	606.03	606.33
J	445+04.72	-33.94	606.05	606.32
K	445+14.72	-33.94	606.07	606.30
L	445+24.72	-33.94	606.08	606.26
M	445+34.72	-33.94	606.08	606.21
N	445+44.72	-33.94	606.09	606.15
⌒ Brg. E. Abut.	445+50.72	-33.94	606.09	606.11
Bk. E. Abut.	445+52.26	-33.94	606.09	606.11

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	444+01.39	-27.33	605.85	605.87
⌒ Brg. W. Abut.	444+02.94	-27.34	605.86	605.88
A	444+12.99	-27.38	605.92	606.01
B	444+23.04	-27.41	605.97	606.12
C	444+33.08	-27.42	606.02	606.23
D	444+43.08	-27.42	606.06	606.31
E	444+53.08	-27.42	606.10	606.38
F	444+63.08	-27.42	606.13	606.44
G	444+73.08	-27.42	606.16	606.48
H	444+83.08	-27.42	606.19	606.51
I	444+93.08	-27.42	606.21	606.52
J	445+03.08	-27.42	606.23	606.51
K	445+13.08	-27.42	606.25	606.49
L	445+23.08	-27.42	606.26	606.45
M	445+33.08	-27.42	606.27	606.40
N	445+43.08	-27.42	606.27	606.33
⌒ Brg. E. Abut.	445+49.08	-27.42	606.27	606.29
Bk. E. Abut.	445+50.63	-27.42	606.27	606.29

GIRDER A

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+99.89	-21.24	606.02	606.04
⌒ Brg. W. Abut.	444+01.44	-21.25	606.03	606.05
A	444+11.48	-21.30	606.08	606.16
B	444+21.52	-21.32	606.13	606.26
C	444+31.55	-21.33	606.18	606.35
D	444+41.56	-21.33	606.22	606.43
E	444+51.56	-21.33	606.26	606.49
F	444+61.56	-21.33	606.30	606.55
G	444+71.56	-21.33	606.33	606.59
H	444+81.56	-21.33	606.36	606.61
I	444+91.56	-21.33	606.38	606.63
J	445+01.56	-21.33	606.40	606.63
K	445+11.56	-21.33	606.42	606.61
L	445+21.56	-21.33	606.43	606.59
M	445+31.56	-21.33	606.44	606.55
N	445+41.56	-21.33	606.44	606.50
⌒ Brg. E. Abut.	445+47.56	-21.33	606.44	606.46
Bk. E. Abut.	445+49.10	-21.33	606.44	606.46

GIRDER B

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+98.40	-15.15	606.18	606.20
⌒ Brg. W. Abut.	443+99.95	-15.16	606.19	606.21
A	444+09.97	-15.21	606.25	606.32
B	444+20.00	-15.24	606.30	606.42
C	444+30.03	-15.25	606.35	606.52
D	444+40.03	-15.25	606.39	606.59
E	444+50.03	-15.25	606.43	606.66
F	444+60.03	-15.25	606.47	606.71
G	444+70.03	-15.25	606.50	606.75
H	444+80.03	-15.25	606.53	606.78
I	444+90.03	-15.25	606.55	606.79
J	445+00.03	-15.25	606.57	606.79
K	445+10.03	-15.25	606.59	606.78
L	445+20.03	-15.25	606.60	606.76
M	445+30.03	-15.25	606.61	606.72
N	445+40.03	-15.25	606.61	606.67
⌒ Brg. E. Abut.	445+46.03	-15.25	606.62	606.64
Bk. E. Abut.	445+47.58	-15.25	606.62	606.64

WB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+97.99	-13.50	606.23	606.25
⌒ Brg. W. Abut.	443+99.54	-13.50	606.23	606.26
A	444+09.55	-13.50	606.29	606.37
B	444+19.57	-13.50	606.34	606.47
C	444+29.59	-13.50	606.39	606.56
D	444+39.59	-13.50	606.44	606.64
E	444+49.59	-13.50	606.48	606.71
F	444+59.59	-13.50	606.52	606.76
G	444+69.59	-13.50	606.55	606.80
H	444+79.59	-13.50	606.58	606.83
I	444+89.59	-13.50	606.60	606.84
J	444+99.59	-13.50	606.62	606.84
K	445+09.59	-13.50	606.64	606.83
L	445+19.59	-13.50	606.65	606.81
M	445+29.59	-13.50	606.66	606.77
N	445+39.59	-13.50	606.66	606.72
⌒ Brg. E. Abut.	445+45.59	-13.50	606.66	606.69
Bk. E. Abut.	445+47.14	-13.50	606.66	606.69



USER NAME = amkluver	DESIGNED - TJA	REVISED -
	CHECKED - SN	REVISED -
PLOT SCALE = NTS	DRAWN - TJA	REVISED -
PLOT DATE = 6/23/2023	CHECKED - WJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS 3
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET S1-11 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	522
		CONTRACT NO. 62R27		
		ILLINOIS	FED. AID PROJECT	

GIRDER C

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+96.91	-9.06	606.34	606.37
☐ Brg. W. Abut.	443+98.45	-9.07	606.35	606.37
A	444+08.47	-9.12	606.41	606.48
B	444+18.49	-9.15	606.46	606.59
C	444+28.50	-9.17	606.51	606.68
D	444+38.51	-9.17	606.56	606.76
E	444+48.51	-9.17	606.60	606.83
F	444+58.51	-9.17	606.63	606.88
G	444+68.51	-9.17	606.67	606.92
H	444+78.51	-9.17	606.70	606.95
I	444+88.51	-9.17	606.72	606.96
J	444+98.51	-9.17	606.74	606.96
K	445+08.51	-9.17	606.76	606.95
L	445+18.51	-9.17	606.77	606.93
M	445+28.51	-9.17	606.78	606.89
N	445+38.51	-9.17	606.79	606.84
☐ Brg. E. Abut.	445+44.51	-9.17	606.79	606.81
Bk. E. Abut.	445+46.05	-9.17	606.79	606.81

GIRDER D

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+95.42	-2.96	606.51	606.53
☐ Brg. W. Abut.	443+96.97	-2.97	606.52	606.54
A	444+06.97	-3.03	606.57	606.65
B	444+16.98	-3.06	606.63	606.76
C	444+26.98	-3.08	606.68	606.85
D	444+36.98	-3.08	606.72	606.93
E	444+46.98	-3.08	606.76	607.00
F	444+56.98	-3.08	606.80	607.06
G	444+66.98	-3.08	606.83	607.10
H	444+76.98	-3.08	606.86	607.13
I	444+86.98	-3.08	606.89	607.14
J	444+96.98	-3.08	606.91	607.14
K	445+06.98	-3.08	606.93	607.13
L	445+16.98	-3.08	606.94	607.10
M	445+26.98	-3.08	606.95	607.06
N	445+36.98	-3.08	606.96	607.01
☐ Brg. E. Abut.	445+42.98	-3.08	606.96	606.98
Bk. E. Abut.	445+44.53	-3.08	606.96	606.98

GIRDER E

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+93.91	3.21	604.48	604.50
☒ Brg. W. Abut.	443+95.46	3.20	604.49	604.51
A	444+05.45	3.15	604.54	604.62
B	444+15.45	3.11	604.59	604.72
C	444+25.44	3.09	604.64	604.81
D	444+35.44	3.08	604.68	604.89
E	444+45.44	3.08	604.72	604.96
F	444+55.44	3.08	604.76	605.02
G	444+65.44	3.08	604.80	605.06
H	444+75.44	3.08	604.83	605.09
I	444+85.44	3.08	604.86	605.11
J	444+95.44	3.08	604.88	605.11
K	445+05.44	3.08	604.91	605.11
L	445+15.44	3.08	604.93	605.09
M	445+25.44	3.08	604.94	605.05
N	445+35.44	3.08	604.96	605.01
☒ Brg. E. Abut.	445+41.44	3.08	604.96	604.98
Bk. E. Abut.	445+42.98	3.08	604.96	604.98

GIRDER F

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+92.43	9.31	604.64	604.66
☐ Brg. W. Abut.	443+93.98	9.29	604.65	604.67
A	444+03.96	9.24	604.70	604.78
B	444+13.94	9.20	604.75	604.88
C	444+23.93	9.17	604.80	604.97
D	444+33.91	9.17	604.85	605.05
E	444+43.91	9.17	604.89	605.12
F	444+53.91	9.17	604.93	605.17
G	444+63.91	9.17	604.96	605.22
H	444+73.91	9.17	605.00	605.25
I	444+83.91	9.17	605.03	605.27
J	444+93.91	9.17	605.05	605.27
K	445+03.91	9.17	605.07	605.27
L	445+13.91	9.17	605.09	605.25
M	445+23.91	9.17	605.11	605.22
N	445+33.91	9.17	605.13	605.18
☐ Brg. E. Abut.	445+39.91	9.17	605.13	605.15
Bk. E. Abut.	445+41.46	9.17	605.13	605.15

EB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+91.41	13.50	604.75	604.78
☐ Brg. W. Abut.	443+92.96	13.50	604.76	604.78
A	444+02.92	13.50	604.82	604.89
B	444+12.88	13.50	604.87	605.00
C	444+22.85	13.50	604.92	605.09
D	444+32.83	13.50	604.96	605.17
E	444+42.83	13.50	605.01	605.24
F	444+52.83	13.50	605.05	605.29
G	444+62.83	13.50	605.08	605.34
H	444+72.83	13.50	605.11	605.37
I	444+82.83	13.50	605.14	605.39
J	444+92.83	13.50	605.17	605.39
K	445+02.83	13.50	605.20	605.39
L	445+12.83	13.50	605.22	605.37
M	445+22.83	13.50	605.23	605.34
N	445+32.83	13.50	605.25	605.30
☐ Brg. E. Abut.	445+38.83	13.50	605.25	605.27
Bk. E. Abut.	445+40.37	13.50	605.26	605.28

GIRDER G

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+90.95	15.40	604.81	604.83
☐ Brg. W. Abut.	443+92.50	15.39	604.81	604.83
A	444+02.47	15.33	604.87	604.94
B	444+12.44	15.28	604.92	605.04
C	444+22.42	15.26	604.97	605.14
D	444+32.39	15.25	605.01	605.22
E	444+42.39	15.25	605.05	605.28
F	444+52.39	15.25	605.09	605.34
G	444+62.39	15.25	605.13	605.38
H	444+72.39	15.25	605.16	605.42
I	444+82.39	15.25	605.19	605.44
J	444+92.39	15.25	605.22	605.44
K	445+02.39	15.25	605.24	605.44
L	445+12.39	15.25	605.26	605.42
M	445+22.39	15.25	605.28	605.39
N	445+32.39	15.25	605.30	605.35
☐ Brg. E. Abut.	445+38.39	15.25	605.30	605.32
Bk. E. Abut.	445+39.94	15.25	605.30	605.33

GIRDER H

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+89.48	21.49	604.97	604.99
☐ Brg. W. Abut.	443+91.02	21.48	604.98	605.00
A	444+00.98	21.42	605.03	605.11
B	444+10.95	21.37	605.08	605.21
C	444+20.91	21.34	605.13	605.30
D	444+30.87	21.33	605.18	605.38
E	444+40.87	21.33	605.22	605.45
F	444+50.87	21.33	605.26	605.51
G	444+60.87	21.33	605.30	605.55
H	444+70.87	21.33	605.33	605.58
I	444+80.87	21.33	605.36	605.60
J	444+90.87	21.33	605.39	605.61
K	445+00.87	21.33	605.41	605.60
L	445+10.87	21.33	605.43	605.59
M	445+20.87	21.33	605.45	605.56
N	445+30.87	21.33	605.47	605.52
☐ Brg. E. Abut.	445+36.87	21.33	605.47	605.49
Bk. E. Abut.	445+38.41	21.33	605.48	605.50

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+88.01	27.59	605.13	605.15
☐ Brg. W. Abut.	443+89.55	27.58	605.14	605.16
A	443+99.50	27.51	605.20	605.29
B	444+09.45	27.46	605.25	605.40
C	444+19.40	27.43	605.30	605.51
D	444+29.36	27.42	605.34	605.60
E	444+39.34	27.42	605.39	605.67
F	444+49.34	27.42	605.43	605.74
G	444+59.34	27.42	605.46	605.78
H	444+69.34	27.42	605.50	605.81
I	444+79.34	27.42	605.53	605.83
J	444+89.34	27.42	605.56	605.83
K	444+99.34	27.42	605.58	605.82
L	445+09.34	27.42	605.60	605.79
M	445+19.34	27.42	605.62	605.75
N	445+29.34	27.42	605.64	605.70
☐ Brg. E. Abut.	445+35.34	27.42	605.64	605.66
Bk. E. Abut.	445+36.89	27.42	605.65	605.67

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+86.43	34.13	605.31	605.33
☒ Brg. W. Abut.	443+87.97	34.12	605.32	605.34
A	443+97.91	34.05	605.37	605.46
B	444+07.85	34.00	605.42	605.58
C	444+17.74	33.96	605.47	605.68
D	444+27.73	33.95	605.52	605.77
E	444+37.71	33.94	605.56	605.85
F	444+47.71	33.94	605.60	605.91
G	444+57.71	33.94	605.64	605.96
H	444+67.71	33.94	605.68	605.99
I	444+77.71	33.94	605.71	606.01
J	444+87.71	33.94	605.74	606.01
K	444+97.71	33.94	605.76	606.00
L	445+07.71	33.94	605.78	605.97
M	445+17.71	33.94	605.80	605.93
N	445+27.71	33.94	605.82	605.88
☒ Brg. E. Abut.	445+33.71	33.94	605.83	605.85
Bk. E. Abut.	445+35.25	33.94	605.83	605.85

EB STAGE CONSTRUCTION LINE LT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+86.13	35.40	605.34	605.36
☐ Brg. W. Abut.	443+87.66	35.38	605.35	605.37
A	443+97.60	35.31	605.41	605.50
B	444+07.54	35.26	605.46	605.61
C	444+17.48	35.23	605.51	605.72
D	444+27.42	35.21	605.55	605.81
E	444+37.39	35.21	605.60	605.88
F	444+47.39	35.21	605.64	605.95
G	444+57.39	35.21	605.68	605.99
H	444+67.39	35.21	605.71	606.02
I	444+77.39	35.21	605.74	606.04
J	444+87.39	35.21	605.77	606.05
K	444+97.39	35.21	605.80	606.03
L	445+07.39	35.21	605.82	606.01
M	445+17.39	35.21	605.84	605.97
N	445+27.39	35.21	605.85	605.92
☐ Brg. E. Abut.	445+33.39	35.21	605.86	605.88
Bk. E. Abut.	445+34.94	35.21	605.86	605.88

EB STAGE CONSTRUCTION LINE RT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+85.16	39.40	605.45	605.47
☐ Brg. W. Abut.	443+86.70	39.39	605.46	605.48
A	443+96.63	39.32	605.51	605.61
B	444+06.56	39.27	605.57	605.72
C	444+16.50	39.23	605.62	605.83
D	444+27.43	39.21	605.67	605.92
E	444+36.39	39.21	605.71	605.99
F	444+46.39	39.21	605.75	606.06
G	444+56.39	39.21	605.79	606.11
H	444+66.39	39.21	605.82	606.14
I	444+76.39	39.21	605.85	606.16
J	444+86.39	39.21	605.88	606.16
K	444+96.39	39.21	605.91	606.15
L	445+06.39	39.21	605.93	606.12
M	445+16.39	39.21	605.95	606.08
N	445+26.39	39.21	605.97	606.03
☐ Brg. E. Abut.	445+32.39	39.21	605.97	605.99
Bk. E. Abut.	445+33.93	39.21	605.98	606.00

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+84.86	40.67	605.49	605.51
☐ Brg. W. Abut.	443+86.40	40.66	605.49	605.51
A	443+96.33	40.59	605.55	605.64
B	444+06.26	40.53	605.60	605.76
C	444+16.19	40.50	605.65	605.86
D	444+26.12	40.48	605.70	605.95
E	444+36.07	40.47	605.74	606.03
F	444+46.07	40.47	605.78	606.09
G	444+56.07	40.47	605.82	606.14
H	444+66.07	40.47	605.86	606.17
I	444+76.07	40.47	605.89	606.19
J	444+86.07	40.47	605.92	606.20
K	444+96.07	40.47	605.94	606.18
L	445+06.07	40.47	605.97	606.16
M	445+16.07	40.47	605.98	606.12
N	445+26.07	40.47	606.00	606.06
☐ Brg. E. Abut.	445+32.07	40.47	606.01	606.03
Bk. E. Abut.	445+33.62	40.47	606.01	606.03

MODEL: Drawing
FILE NAME: pw:///transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-01-4-TopSlab_Deck6.dgn

GIRDER 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+83.29	47.21	605.66	605.68
⌒ Brg. W. Abut.	443+84.83	47.20	605.67	605.69
A	443+94.74	47.12	605.72	605.82
B	444+04.66	47.07	605.78	605.94
C	444+14.58	47.03	605.83	606.05
D	444+24.50	47.01	605.87	606.14
E	444+34.44	47.00	605.92	606.22
F	444+44.44	47.00	605.96	606.29
G	444+54.44	47.00	606.00	606.34
H	444+64.44	47.00	606.04	606.37
I	444+74.44	47.00	606.07	606.39
J	444+84.44	47.00	606.10	606.39
K	444+94.44	47.00	606.12	606.38
L	445+04.44	47.00	606.15	606.35
M	445+14.44	47.00	606.17	606.31
N	445+24.44	47.00	606.18	606.25
⌒ Brg. E. Abut.	445+30.44	47.00	606.19	606.21
Bk. E. Abut.	445+31.98	47.00	606.19	606.21

GIRDER 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+81.73	53.75	605.84	605.86
⌒ Brg. W. Abut.	443+83.26	53.74	605.85	605.87
A	443+93.17	53.66	605.90	606.00
B	444+03.07	53.60	605.95	606.12
C	444+12.98	53.56	606.00	606.23
D	444+22.89	53.54	606.05	606.33
E	444+32.80	53.53	606.10	606.41
F	444+42.80	53.53	606.14	606.47
G	444+52.80	53.53	606.18	606.52
H	444+62.80	53.53	606.21	606.56
I	444+72.80	53.53	606.25	606.57
J	444+82.80	53.53	606.28	606.58
K	444+92.80	53.53	606.30	606.56
L	445+02.80	53.53	606.33	606.53
M	445+12.80	53.53	606.35	606.49
N	445+22.80	53.53	606.37	606.43
⌒ Brg. E. Abut.	445+28.80	53.53	606.37	606.40
Bk. E. Abut.	445+30.35	53.53	606.38	606.40

GIRDER 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+80.16	60.29	606.01	606.03
⌒ Brg. W. Abut.	443+81.70	60.28	606.02	606.04
A	443+91.59	60.20	606.08	606.17
B	444+01.49	60.14	606.13	606.30
C	444+11.38	60.10	606.18	606.41
D	444+21.28	60.07	606.23	606.51
E	444+31.18	60.06	606.27	606.59
F	444+41.16	60.06	606.32	606.66
G	444+51.16	60.06	606.36	606.71
H	444+61.16	60.06	606.39	606.74
I	444+71.16	60.06	606.43	606.76
J	444+81.16	60.06	606.46	606.76
K	444+91.16	60.06	606.48	606.75
L	445+01.16	60.06	606.51	606.72
M	445+11.16	60.06	606.53	606.67
N	445+21.16	60.06	606.55	606.61
⌒ Brg. E. Abut.	445+27.16	60.06	606.56	606.58
Bk. E. Abut.	445+28.71	60.06	606.56	606.58

GIRDER 14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	443+78.61	66.84	606.19	606.21
⌒ Brg. W. Abut.	443+80.14	66.82	606.20	606.22
A	443+90.02	66.74	606.25	606.36
B	443+99.91	66.68	606.31	606.49
C	444+09.79	66.63	606.36	606.61
D	444+19.68	66.60	606.41	606.71
E	444+29.56	66.58	606.45	606.80
F	444+39.53	66.58	606.49	606.87
G	444+49.53	66.58	606.54	606.92
H	444+59.53	66.58	606.57	606.95
I	444+69.53	66.58	606.61	606.97
J	444+79.53	66.58	606.64	606.97
K	444+89.53	66.58	606.67	606.95
L	444+99.53	66.58	606.69	606.92
M	445+09.53	66.58	606.71	606.87
N	445+19.53	66.58	606.73	606.80
⌒ Brg. E. Abut.	445+25.53	66.58	606.74	606.76
Bk. E. Abut.	445+27.08	66.58	606.74	606.76



USER NAME	=	amkluver
PLOT SCALE	=	NTS
PLOT DATE	=	6/23/2023

DESIGNED	-	TJA
CHECKED	-	SN
DRAWN	-	TJA
CHECKED	-	WJC

REVISED	-
REVISED	-
REVISED	-
REVISED	-

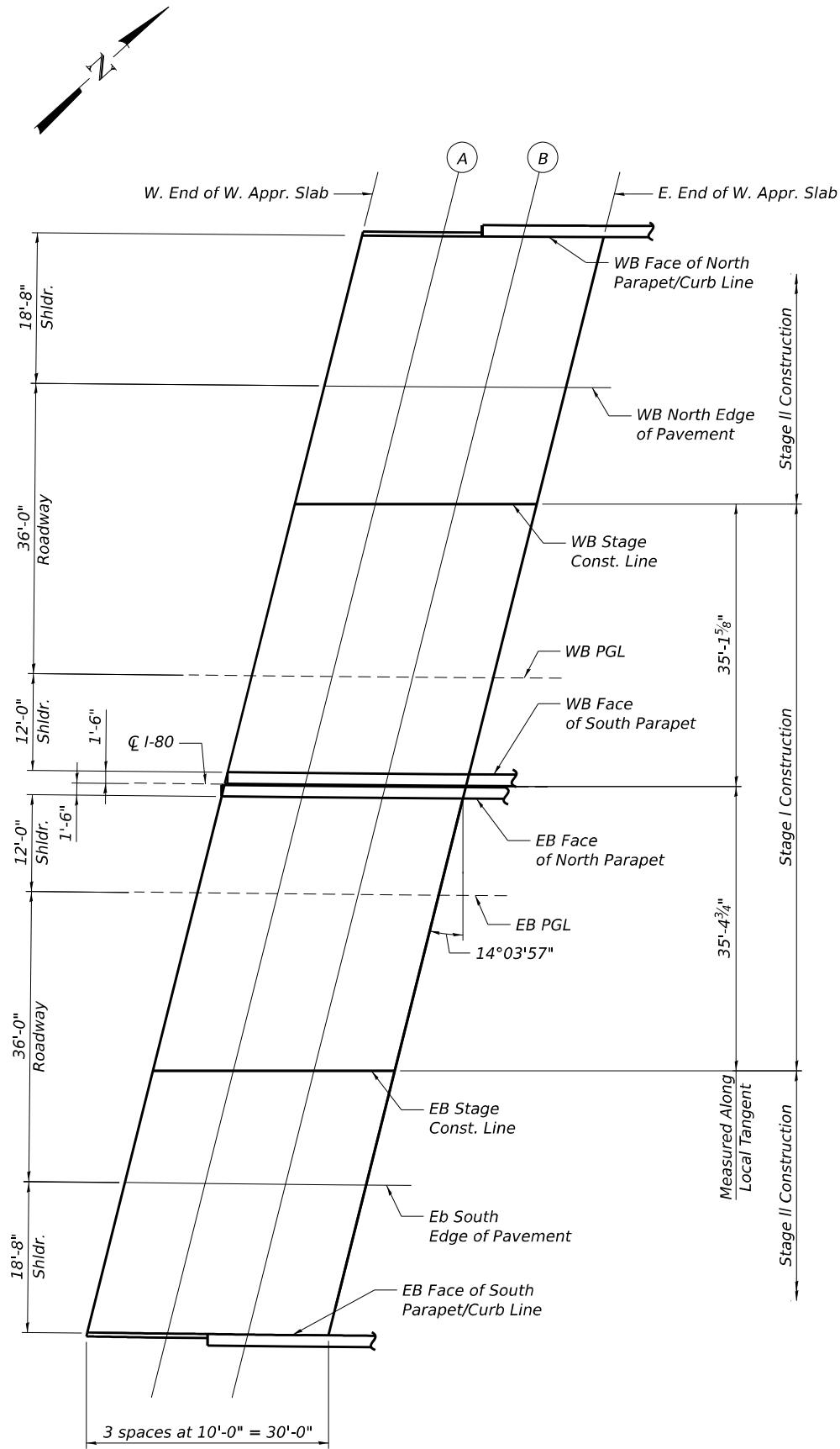
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS 6
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET 51-14 OF 51-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	525
		CONTRACT NO. 62R27		
		ILLINOIS	FED. AID PROJECT	

MODEL: Drawing
FILE NAME: pw:///transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-015-TopSlab_WestApproach.dgn



WEST APPROACH SLAB PLAN

WB FACE OF NORTH PARAPET/CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+81.19	-68.17	604.57	604.59
A	443+91.29	-68.17	604.64	604.66
B	444+01.40	-68.17	604.70	604.72
E. End of West Appr. Slab	444+11.51	-68.17	604.75	604.78

WB STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+73.18	-35.14	605.45	605.47
A	443+83.22	-35.14	605.52	605.54
B	443+93.26	-35.14	605.58	605.61
E. End of West Appr. Slab	444+03.31	-35.14	605.64	605.66

WB FACE OF SOUTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+65.12	-1.50	606.35	606.37
A	443+75.10	-1.50	606.42	606.44
B	443+85.08	-1.50	606.48	606.51
E. End of West Appr. Slab	443+95.06	-1.50	606.55	606.57

EB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+61.56	13.50	604.57	604.59
A	443+71.51	13.50	604.63	604.66
B	443+81.46	13.50	604.70	604.72
E. End of West Appr. Slab	443+91.42	13.50	604.75	604.78

EB SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+53.08	49.50	605.53	605.55
A	443+62.96	49.50	605.60	605.62
B	443+72.85	49.50	605.66	605.68
E. End of West Appr. Slab	443+82.74	49.50	605.72	605.74

WB NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+76.65	-49.50	605.07	605.09
A	443+86.72	-49.50	605.14	605.16
B	443+96.79	-49.50	605.20	605.22
E. End of West Appr. Slab	444+06.86	-49.50	605.26	605.28

WB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+67.99	-13.50	606.03	606.05
A	443+77.98	-13.50	606.10	606.12
B	443+87.99	-13.50	606.16	606.18
E. End of West Appr. Slab	443+97.99	-13.50	606.23	606.25

EB FACE OF NORTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+64.41	1.50	604.25	604.27
A	443+74.38	1.50	604.31	604.33
B	443+84.35	1.50	604.37	604.39
E. End of West Appr. Slab	443+94.33	1.50	604.43	604.45

EB STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+56.39	35.40	605.15	605.18
A	443+66.30	35.40	605.22	605.24
B	443+76.21	35.40	605.28	605.30
E. End of West Appr. Slab	443+86.13	35.40	605.34	605.36

EB FACE OF SOUTH PARAPET/CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of West Appr. Slab	443+48.73	68.17	606.03	606.05
A	443+58.58	68.17	606.10	606.12
B	443+68.43	68.17	606.16	606.18
E. End of West Appr. Slab	443+78.29	68.17	606.22	606.24

TRANSYSTEMS

USER NAME = amkluver
DESIGNED - TJA
CHECKED - SN
PLOT SCALE = NTS
DRAWN - TJA
PLOT DATE = 6/23/2023
CHECKED - WJC

DESIGNED - TJA
CHECKED - SN
PLOT SCALE = NTS
DRAWN - TJA
PLOT DATE = 6/23/2023
CHECKED - WJC

REVIS
REVIS
REVIS
REVIS

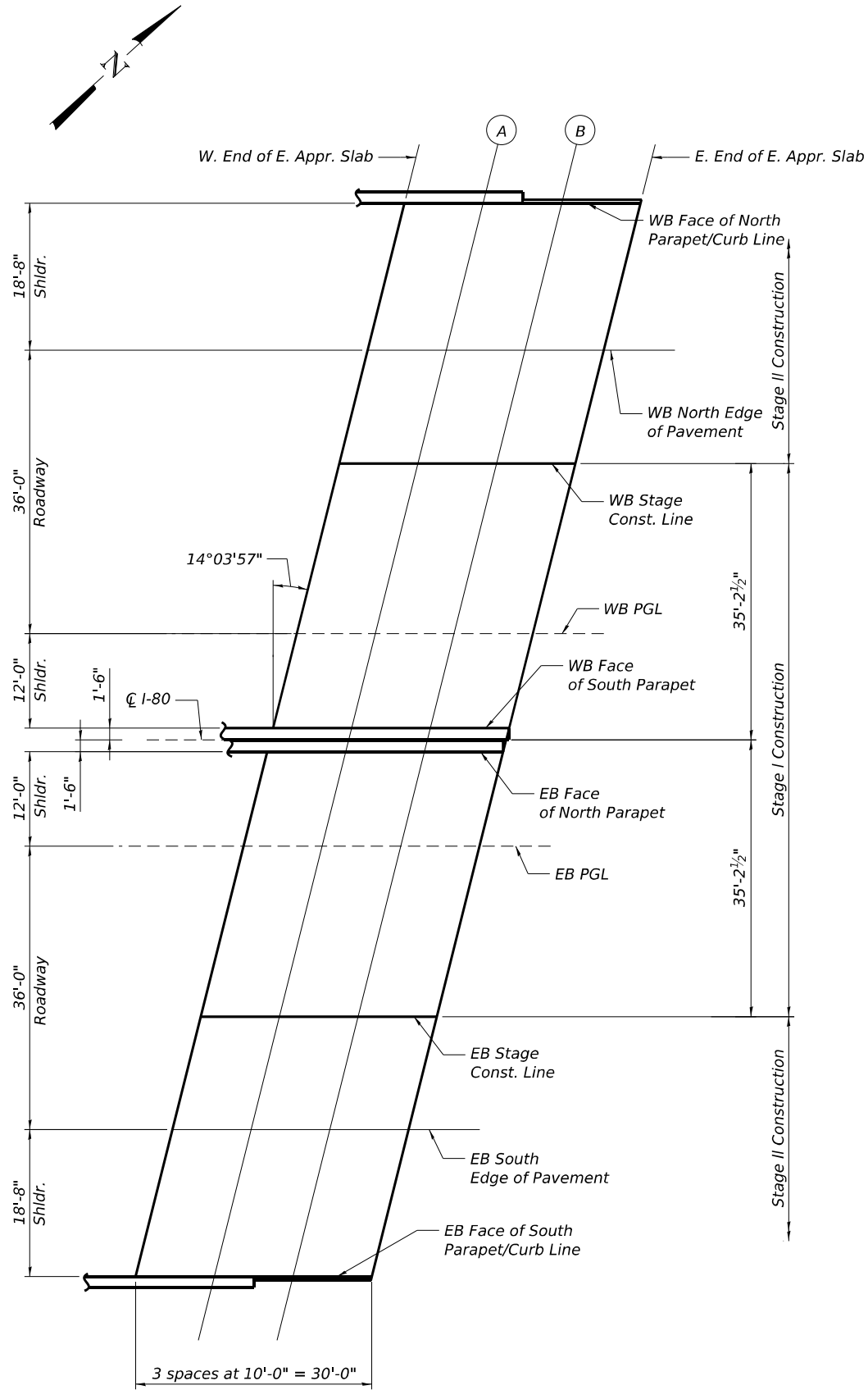
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET S1-15 OF S1-47 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
I-80 FAI 80 21 STRUCTURE 6 WILL 898 526
ILLINOIS FED. AID PROJECT

MODEL: Drawing
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EAST APPROACH SLAB PLAN

WB FACE OF NORTH PARAPET/CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+60.84	-68.17	605.11	605.13
A	445+70.84	-68.17	605.10	605.13
B	445+80.84	-68.17	605.09	605.11
E. End of East Appr. Slab	445+90.84	-68.17	605.08	605.10

WB NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+56.16	-49.50	605.64	605.66
A	445+66.16	-49.50	605.64	605.66
B	445+76.16	-49.50	605.63	605.65
E. End of East Appr. Slab	445+86.16	-49.50	605.61	605.63

WB STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations CL-80	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+52.58	-35.21	606.05	606.07
A	445+62.58	-35.21	606.04	606.07
B	445+72.58	-35.21	606.04	606.06
E. End of East Appr. Slab	445+82.58	-35.21	606.02	606.04

WB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+47.14	-13.50	606.66	606.69
A	445+57.14	-13.50	606.66	606.68
B	445+67.14	-13.50	606.66	606.68
E. End of East Appr. Slab	445+77.14	-13.50	606.64	606.67

WB FACE OF SOUTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+44.13	-1.50	607.00	607.03
A	445+54.13	-1.50	607.00	607.02
B	445+64.13	-1.50	607.00	607.02
E. End of East Appr. Slab	445+74.13	-1.50	606.99	607.01

EB FACE OF NORTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+43.38	1.50	604.92	604.94
A	445+53.38	1.50	604.93	604.95
B	445+63.38	1.50	604.93	604.95
E. End of East Appr. Slab	445+73.38	1.50	604.93	604.95

EB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+40.38	13.50	605.26	605.28
A	445+50.38	13.50	605.26	605.29
B	445+60.38	13.50	605.27	605.29
E. End of East Appr. Slab	445+70.38	13.50	605.27	605.29

EB STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+34.94	35.21	605.86	605.88
A	445+44.94	35.21	605.87	605.90
B	445+54.94	35.21	605.88	605.90
E. End of East Appr. Slab	445+64.94	35.21	605.89	605.91

EB SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+31.36	49.50	606.26	606.28
A	445+41.36	49.50	606.28	606.30
B	445+51.36	49.50	606.28	606.30
E. End of East Appr. Slab	445+61.36	49.50	606.29	606.31

EB FACE OF SOUTH PARAPET/CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of East Appr. Slab	445+26.68	68.17	606.79	606.81
A	445+36.68	68.17	606.80	606.82
B	445+46.68	68.17	606.81	606.83
E. End of East Appr. Slab	445+56.68	68.17	606.82	606.84

TRANSYSTEMS

USER NAME = amkluver
DESIGNED - TJA
CHECKED - SN
PLOT SCALE = NTS
DRAWN - TJA
PLOT DATE = 6/23/2023
CHECKED - WJC

DESIGNED - TJA
CHECKED - SN
DRAWN - TJA
CHECKED - WJC
REVISED -
REVISED -
REVISED -
REVISED -

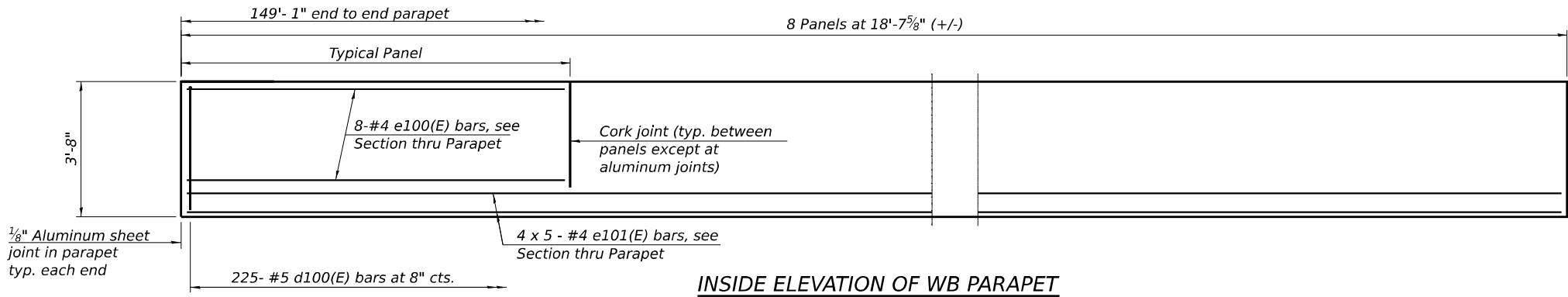
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET 51-16 OF 51-47 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
I-80 FAI 80 21 STRUCTURE 6 WILL 898 527
ILLINOIS FED. AID PROJECT

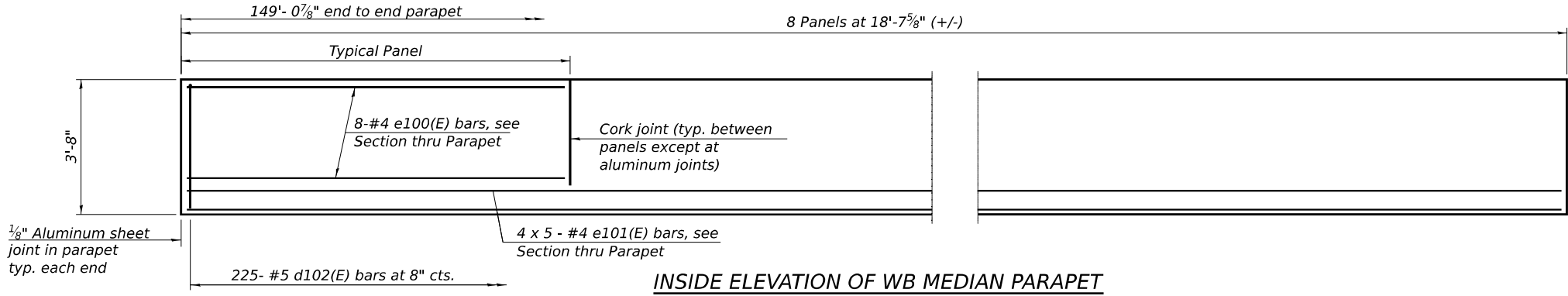
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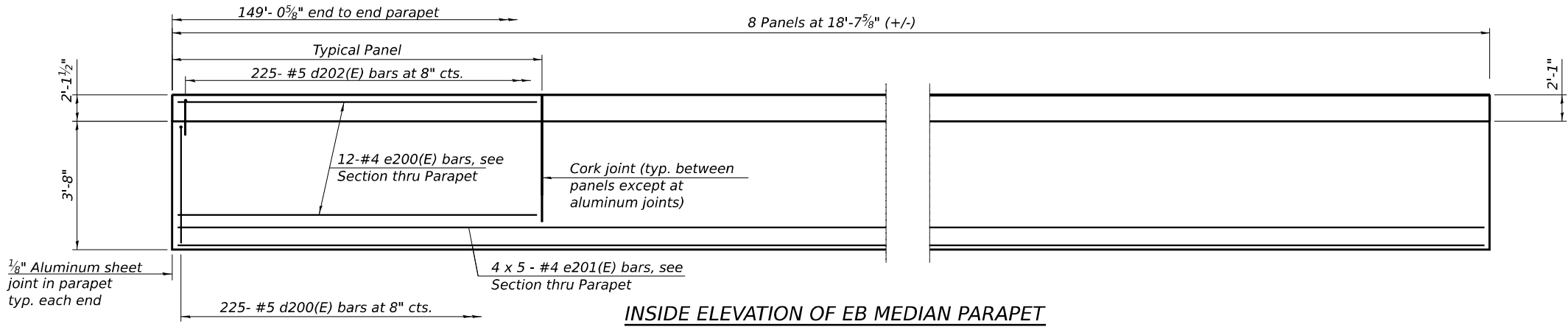
INSIDE ELEVATION OF WB PARAPET

MINIMUM BAR LAP

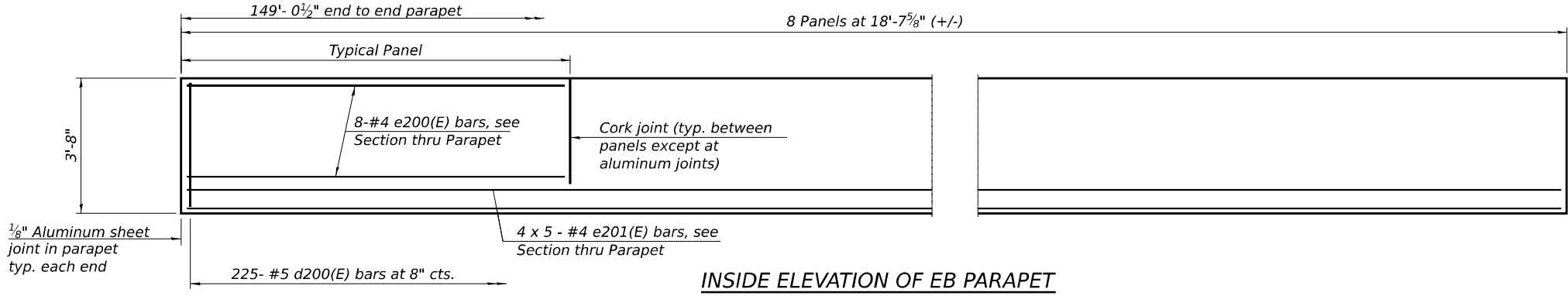
#4 BAR = 2'-5"



INSIDE ELEVATION OF WB MEDIAN PARAPET



INSIDE ELEVATION OF EB MEDIAN PARAPET



INSIDE ELEVATION OF EB PARAPET

TRANSYSTEMS

USER NAME	=	amkluver	DESIGNED	-	TJA	REVISED	-	
			CHECKED	-	ESS	REVISED	-	
PLOT SCALE	=	NTS	DRAWN	-	ESS	REVISED	-	
PLOT DATE	=	7/27/2023	CHECKED	-	TJA	REVISED	-	

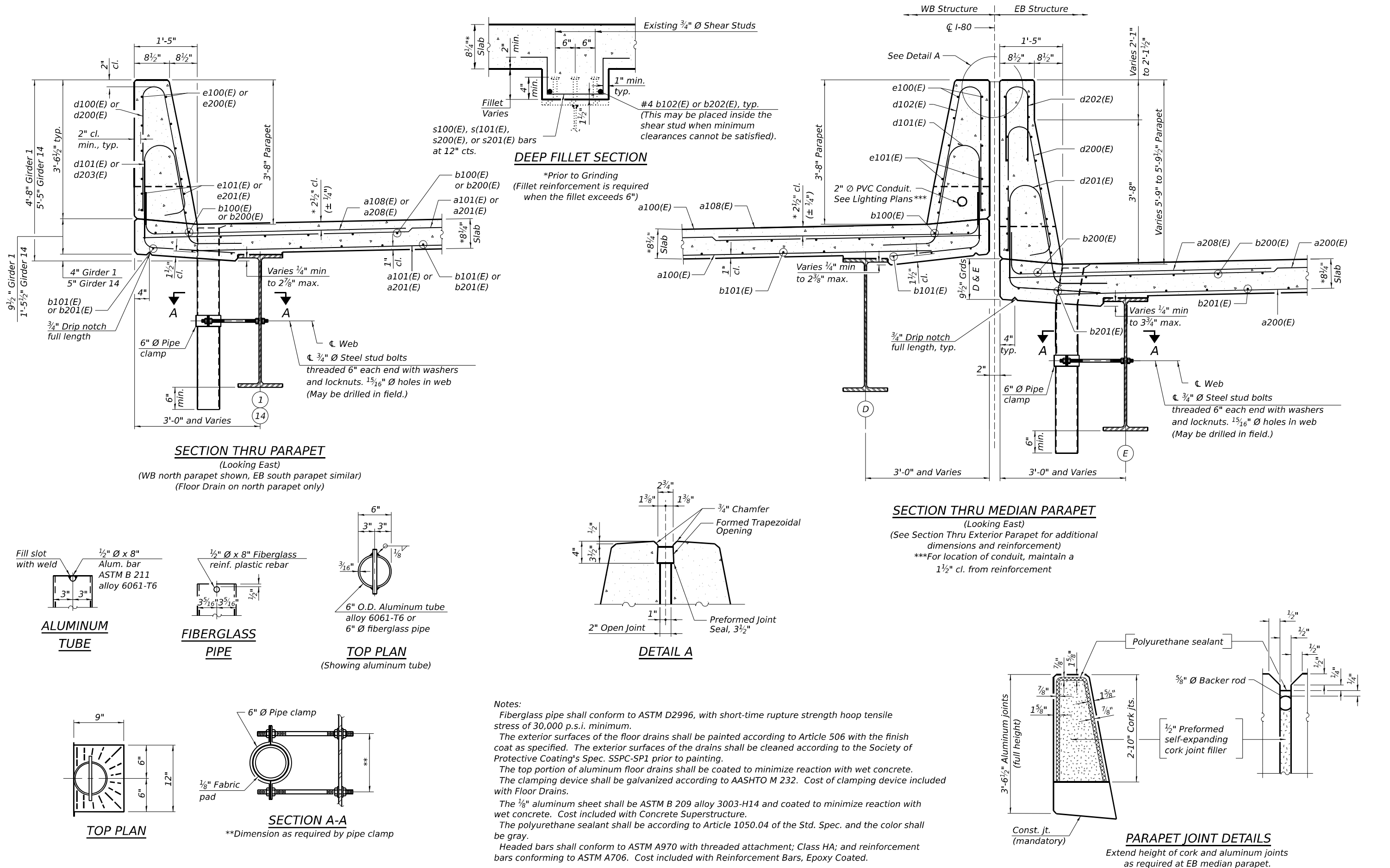
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARAPET ELEVATIONS
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)**

SHEET 51-19 OF 51-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	530
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

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TRANSYSTEMS

USER NAME	=	amkluver	DESIGNED	-	ESS	REVISED	-
			CHECKED	-	ESS	REVISED	-
PLOT SCALE	=	NTS	DRAWN	-	ESS	REVISED	-
PLOT DATE	=	7/27/2023	CHECKED	-	TJA	REVISED	-

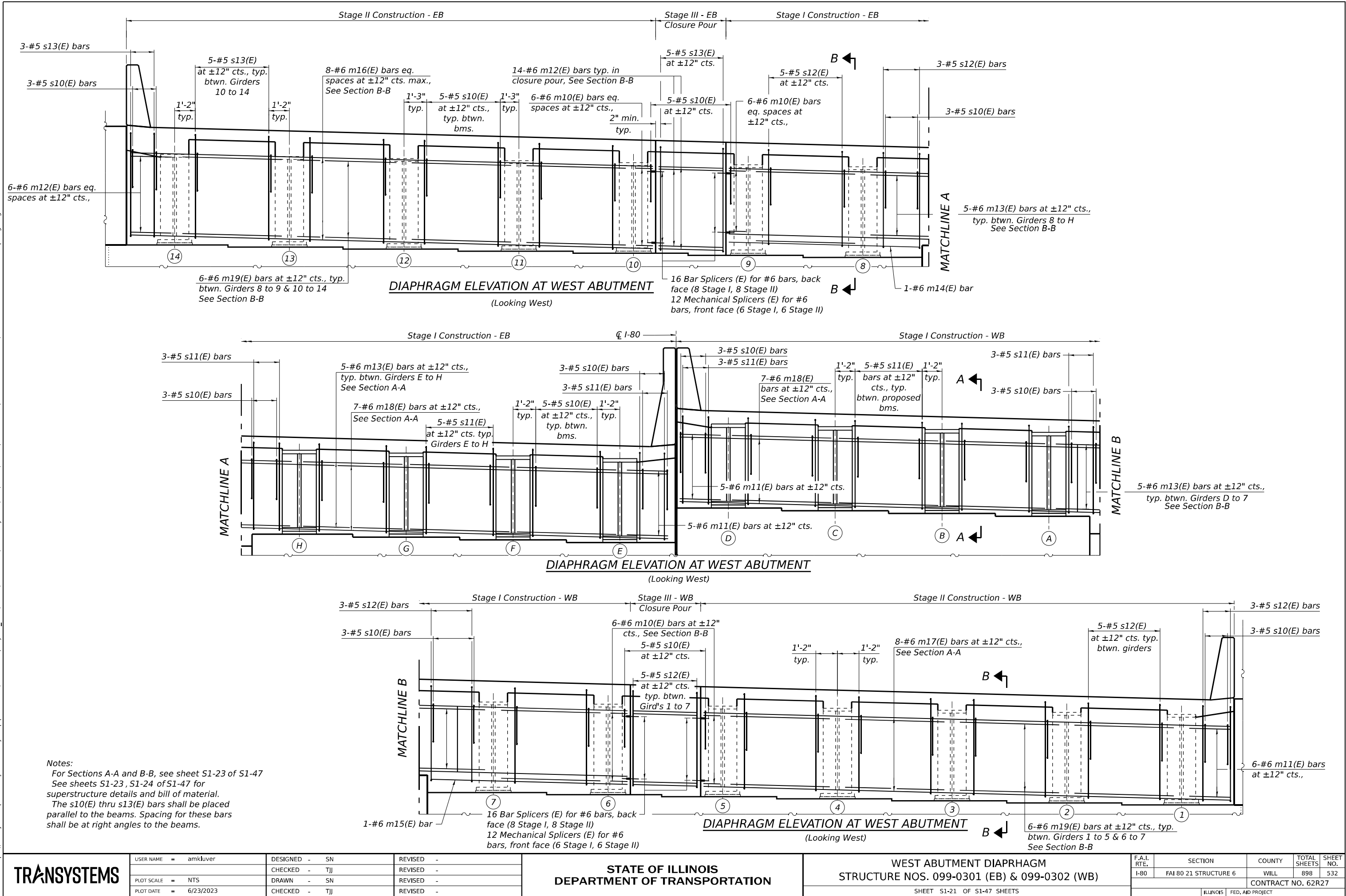
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET DETAILS
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

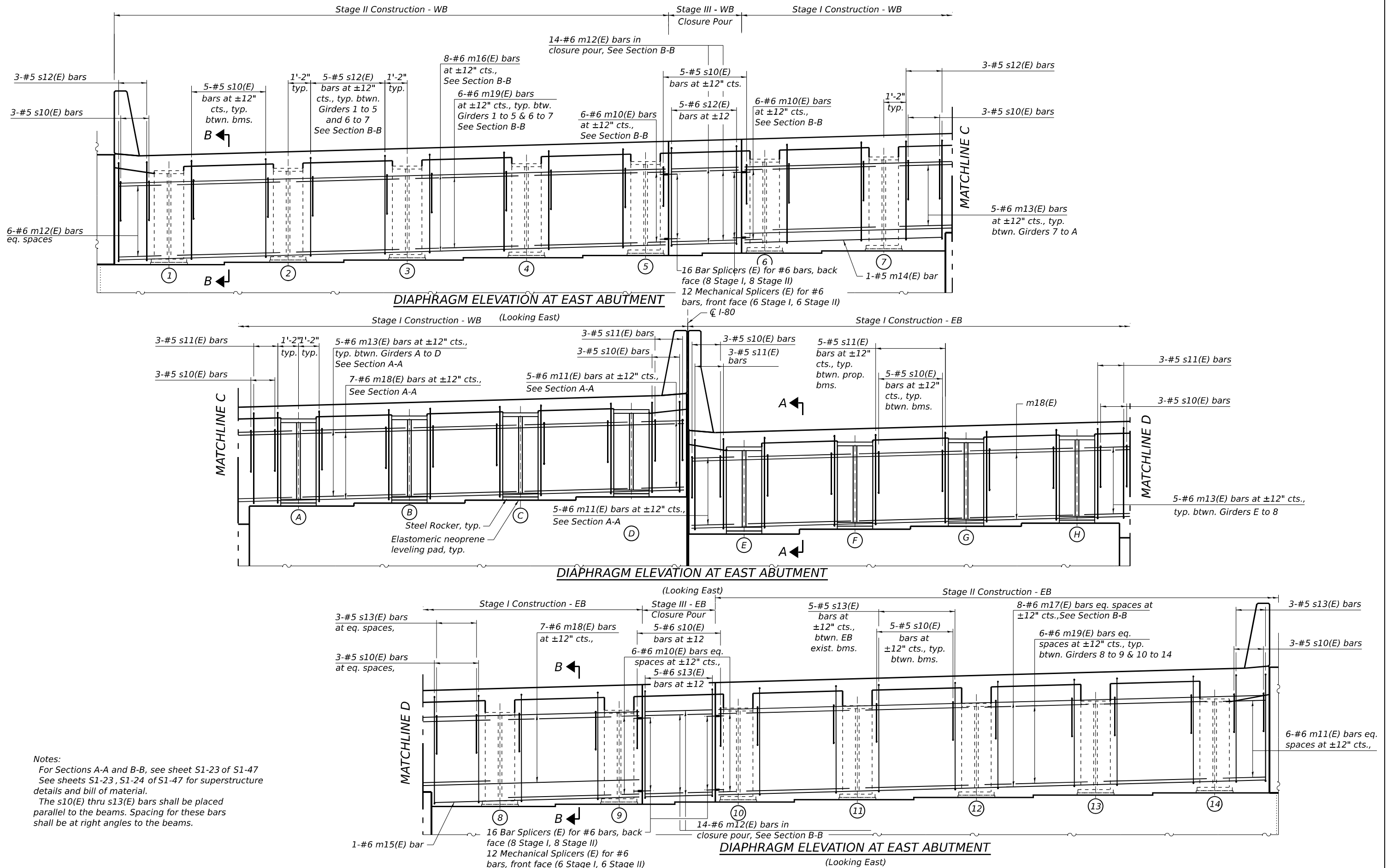
SHEET 51-20 OF 51-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	531
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

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MODEL: Drawing View
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TRANSYSTEMS

USER NAME	= tjallen	DESIGNED	- SN	REVISED	-
		CHECKED	- TJJ	REVISED	-
PLOT SCALE	= NTS	DRAWN	- SN	REVISED	-
PLOT DATE	= 6/22/2023	CHECKED	- TJJ	REVISED	-

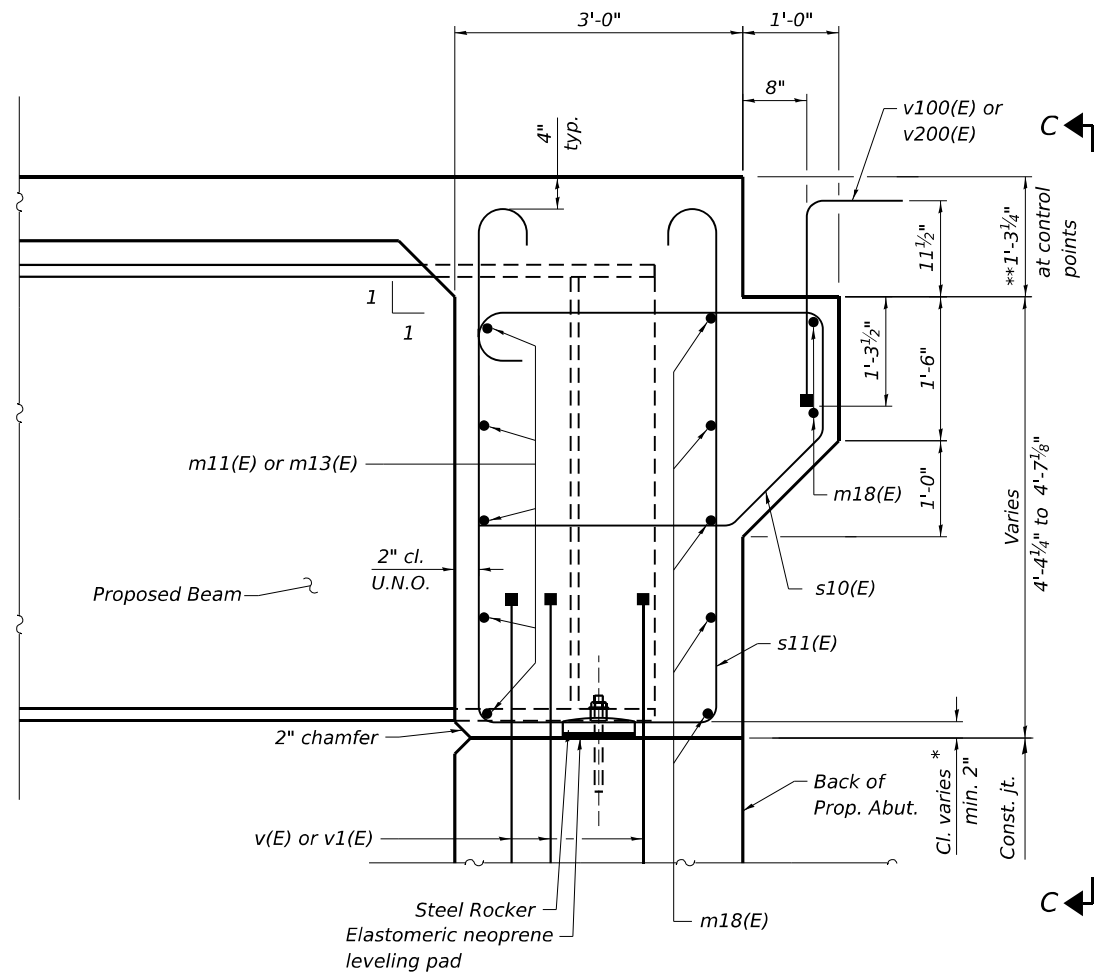
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT DIAPHRAGM
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

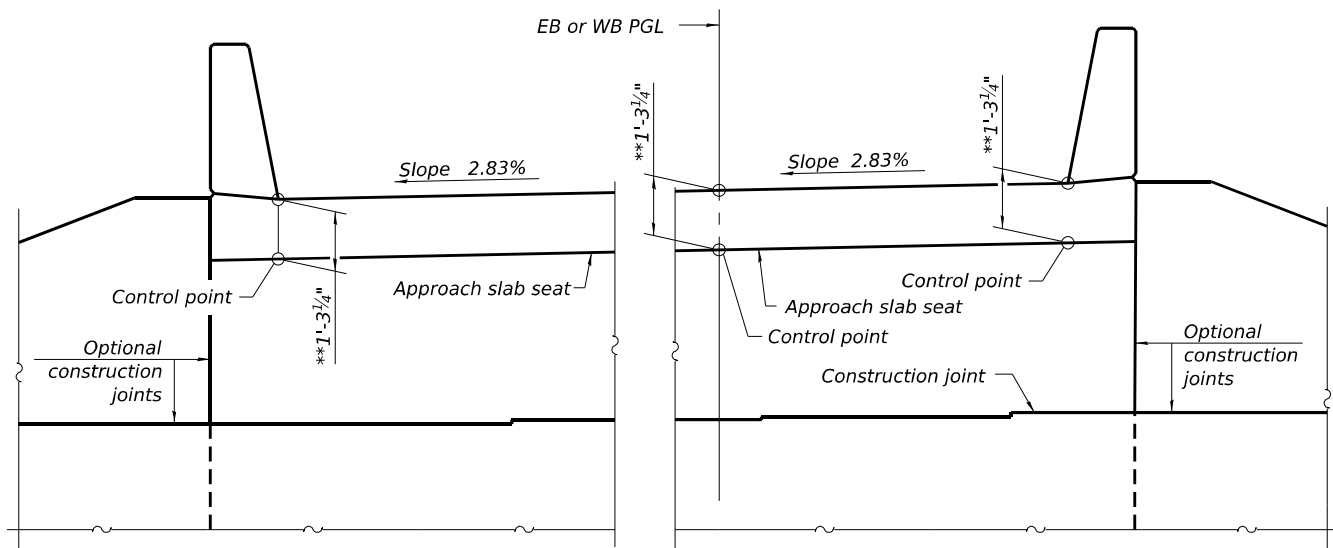
SHEET S1-22 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	533	
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

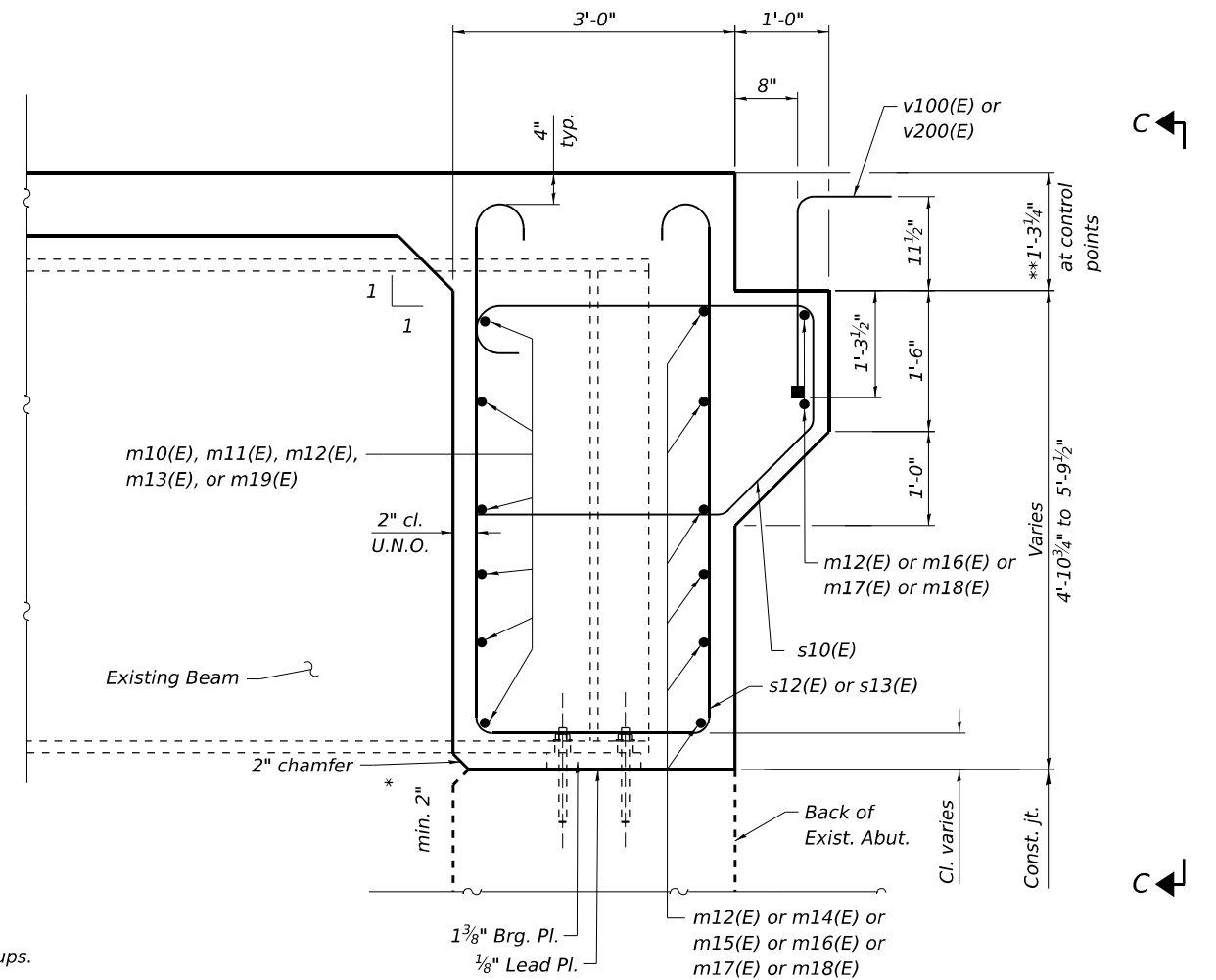
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SECTION A-A
(at Rt. Ls)

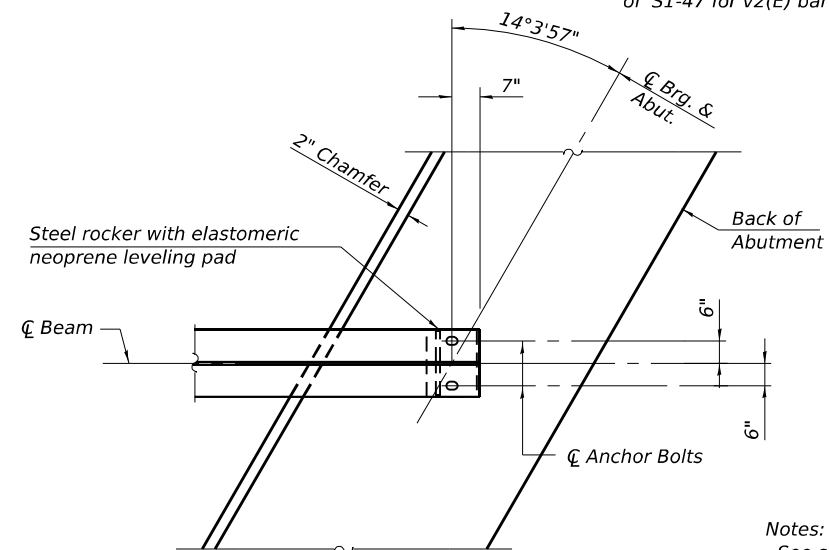


VIEW C-C



SECTION B-B
(at Rt. Ls)

See section C-C on sheet S1-39 and S1-41 of S1-47 for v2(E) bar locations.



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
See sheets S1-03, S1-21, S1-22, S1-24 of S1-47 for superstructure details and Bill of Material.
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.
The approach slab seat shall have a constant slope determined from the control points shown.

TRANSYSTEMS

USER NAME = amkluver	DESIGNED - ESS	REVISED -
CHECKED - AMD	REVISED -	
PLOT SCALE = NTS	DRAWN - TJA	REVISED -
PLOT DATE = 6/23/2023	CHECKED - AMD	REVISED -

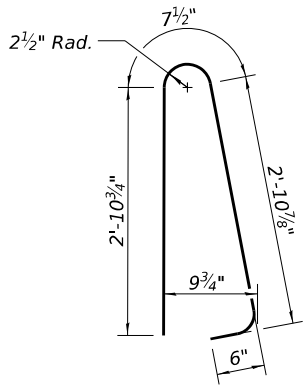
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS 1
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)**

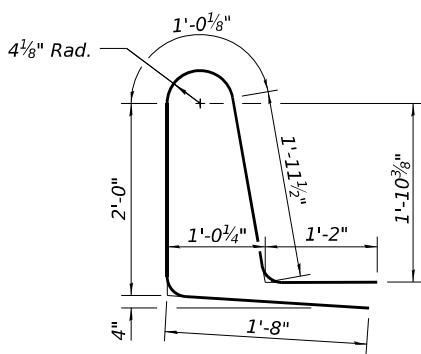
SHEET S1-23 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	534
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

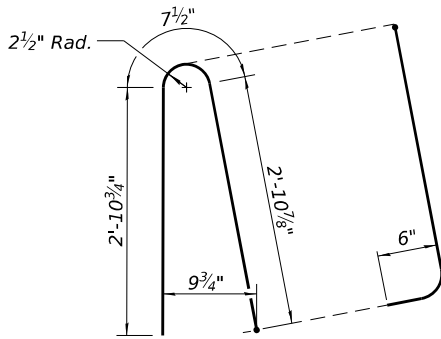
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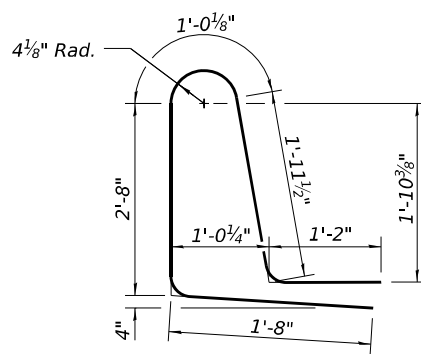
BAR d100(E) & d200(E)



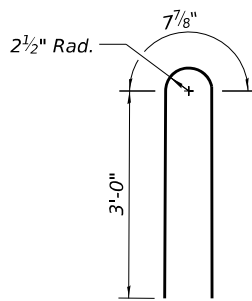
BAR d101(E) & d201(E)



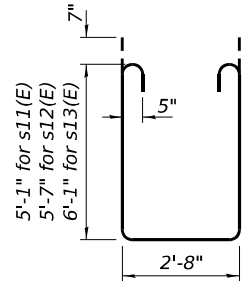
BAR d102(E)



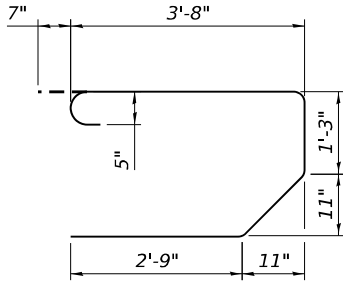
BAR d203(E)



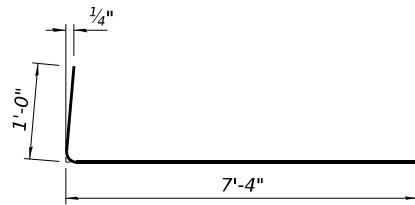
BAR d202(E)



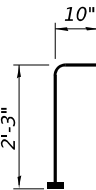
BAR s11(E) & s12(E) & s13(E)



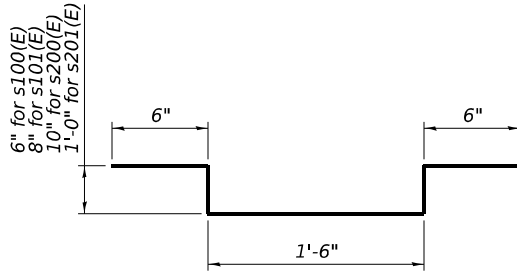
BAR s10(E)



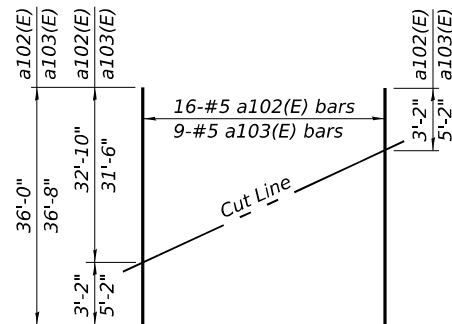
BAR a109(E) & a209(E)



BAR v100(E) & v200(E)
(Headed)

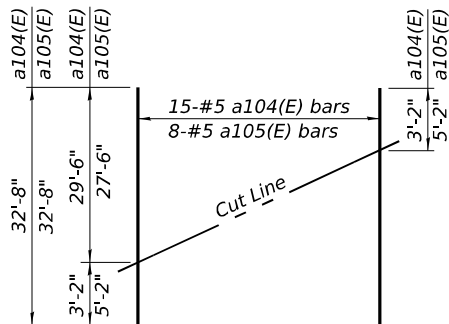


BAR s100(E), s101(E),
s200(E), & s201(E)



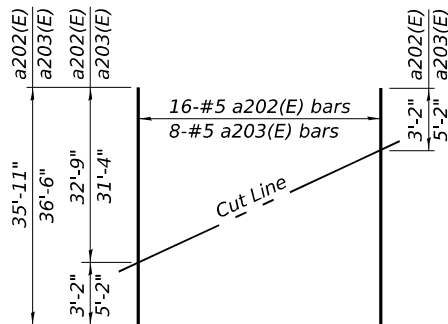
FIELD CUTTING DIAGRAM

Order a102(E) and a103(E) bars full length.
Cut as shown and use remainder of
bars in opposite end of deck.



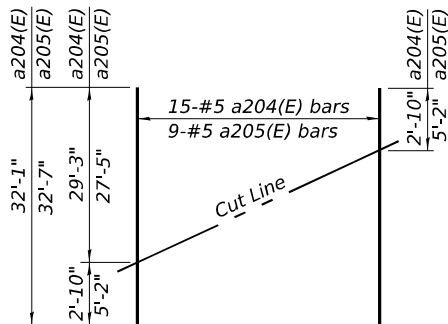
FIELD CUTTING DIAGRAM

Order a104(E) and a105(E) bars full length.
Cut as shown and use remainder of
bars in opposite end of deck.



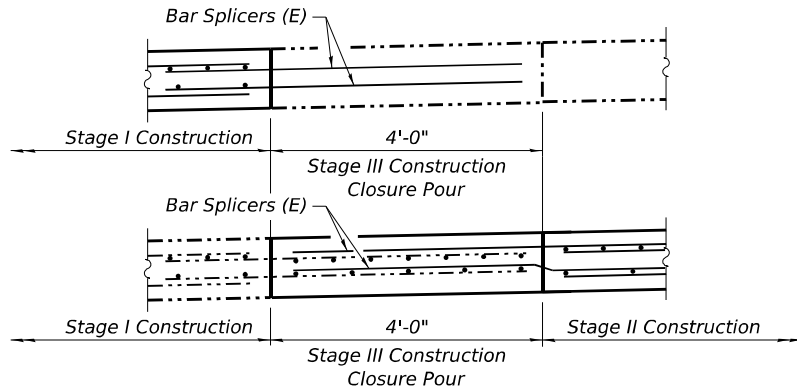
FIELD CUTTING DIAGRAM

Order a202(E) and a203(E) bars full length.
Cut as shown and use remainder of
bars in opposite end of deck.



FIELD CUTTING DIAGRAM

Order a204(E) and a205(E) bars full length.
Cut as shown and use remainder of
bars in opposite end of deck.



CLOSURE POUR DETAIL

Note:
Headed bars shall conform to ASTM A970 with threaded
attachment; Class HA; and reinforment bars conforming to ASTM
A706. Cost included with Reinforement Bars, Epoxy Coated

**SUPERSTRUCTURE
BILL OF MATERIAL (WB)**

Bar	No.	Size	Length	Shape
a100(E)	450	#5	34'-10"	—
a101(E)	452	#5	30'-1"	—
a102(E)	16	#5	36'-0"	—
a103(E)	9	#5	36'-8"	—
a104(E)	15	#5	32'-8"	—
a105(E)	8	#5	32'-8"	—
a106(E)	4	#5	35'-9"	—
a107(E)	4	#5	31'-0"	—
a108(E)	4	#5	3'-8"	—
a109(E)	446	#6	8'-4"	—
b100(E)	370	#5	32'-7"	—
b101(E)	342	#5	27'-9"	—
b102(E)	84	#4	26'-10"	—
d100(E)	225	#5	7'-0"	—
d101(E)	450	#5	7'-10"	—
d102(E)	225	#5	7'-0"	—
e100(E)	128	#4	18'-3"	—
e101(E)	40	#4	31'-9"	—
s100(E)	576	#4	3'-6"	—
s101(E)	432	#4	3'-10"	—
v100(E)	142	#5	3'-10"	—
m10(E)	24	#6	1'-0"	—
m11(E)	16	#6	2'-10"	—
m12(E)	34	#6	3'-10"	—
m13(E)	40	#6	5'-10"	—
m14(E)	1	#6	11'-6"	—
m15(E)	1	#6	11'-4"	—
m16(E)	8	#6	31'-2"	—
m17(E)	8	#6	31'-8"	—
m18(E)	14	#6	35'-10"	—
m19(E)	60	#6	6'-4"	—
s10(E)	114	#5	9'-7"	—
s11(E)	42	#5	14'-0"	—
s12(E)	72	#5	15'-0"	—
Floor Drains			Each	2
Concrete Superstructure			Cu. Yds.	434.9
Protective Coat			Sq. Yd.	1,252
Reinforcement Bars, Epoxy Coated			Lbs.	81,900
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	597
Diamond Grinding (Bridge Section)			Sq. Yd.	1,039

**SUPERSTRUCTURE
BILL OF MATERIAL (EB)**

Bar	No.	Size	Length	Shape
a200(E)	450	#5	34'-11"	—
a201(E)	452	#5	30'-1"	—
a202(E)	16	#5	35'-11"	—
a203(E)	8	#5	36'-6"	—
a204(E)	15	#5	32'-1"	—
a205(E)	9	#5	32'-7"	—
a206(E)	4	#5	35'-9"	—
a207(E)	4	#5	31'-0"	—
a208(E)	4	#5	3'-8"	—
a209(E)	594	#6	8'-4"	—
b200(E)	355	#5	32'-7"	—
b201(E)	342	#5	27'-9"	—
b202(E)	84	#4	26'-10"	—
d200(E)	450	#5	7'-0"	—
d201(E)	450	#5	7'-10"	—
d202(E)	225	#5	6'-8"	—
d203(E)	225	#5	8'-6"	—
e100(E)	160	#4	18'-3"	—
e101(E)	40	#4	31'-9"	—
s200(E)	432	#4	4'-2"	—
s201(E)	576	#4	4'-6"	—
v200(E)	142	#5	3'-1"	—
m10(E)	24	#6	1'-0"	—
m11(E)	16	#6	2'-10"	—
m12(E)	34	#6	3'-10"	—
m13(E)	40	#6	5'-10"	—
m14(E)	1	#6	11'-6"	—
m15(E)	1	#6	11'-4"	—
m16(E)	8	#6	31'-2"	—
m17(E)	8	#6	31'-8"	—
m18(E)	14	#6	35'-10"	—
m19(E)	60	#6	6'-4"	—
s10(E)	114	#5	9'-7"	—
s11(E)	42	#5	14'-0"	—
s12(E)	8	#5	15'-0"	—
s13(E)	64	#5	16'-0"	—
Floor Drains			Each	2
Concrete Superstructure			Cu. Yds.	472.4
Protective Coat			Sq. Yd.	1,287
Reinforcement Bars, Epoxy Coated			Lbs.	85,910
Preformed Joint Seal 3 1/2"			Foot	210
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	597
Diamond Grinding (Bridge Section)			Sq. Yd.	1,039

TRANSYSTEMS

USER NAME = amkluver	DESIGNED - ESS	REVISED -
PLOT SCALE = NTS	CHECKED - AMD	REVISED -
PLOT DATE = 7/27/2023	DRAWN - TJA	REVISED -
	CHECKED - AMD	REVISED -

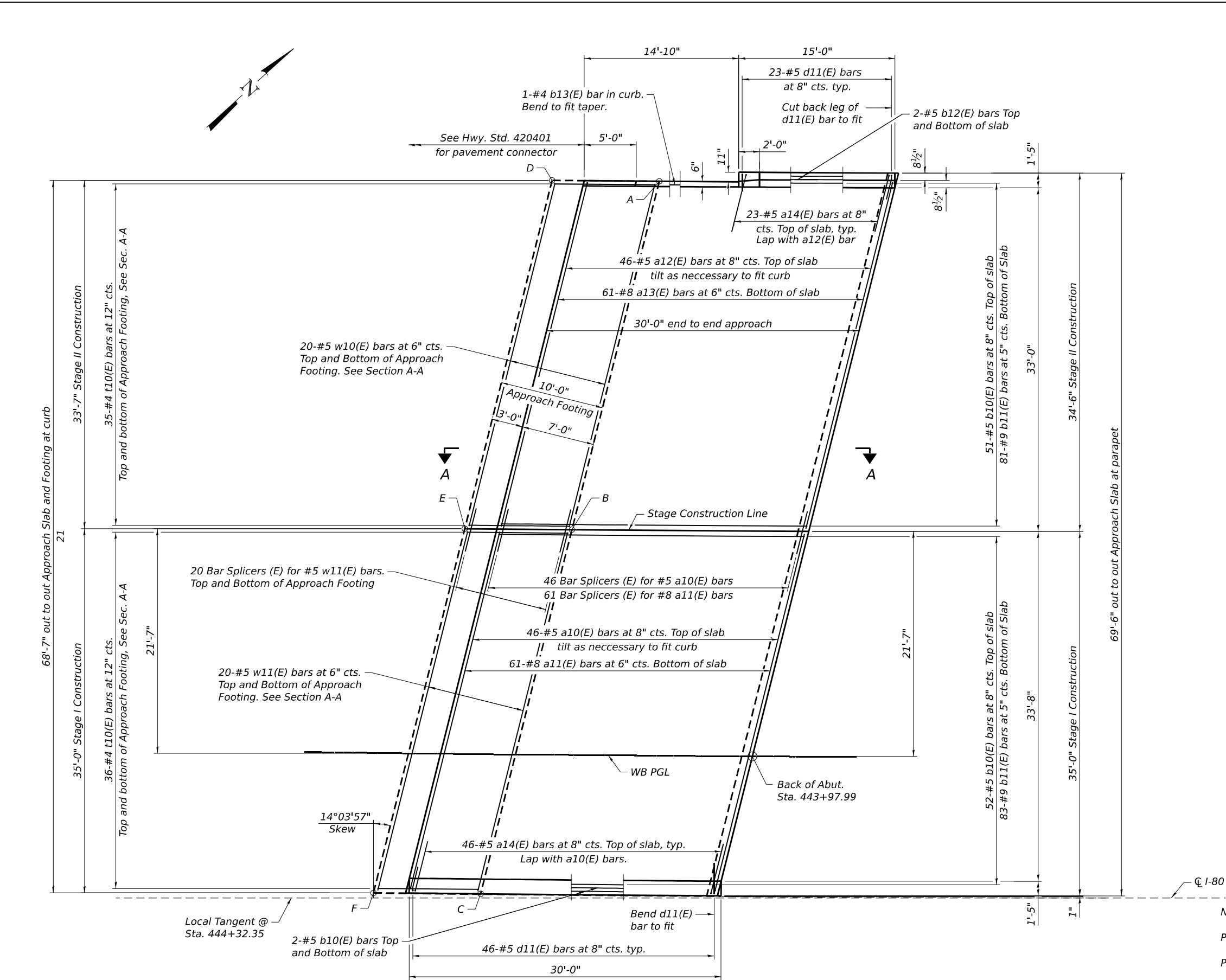
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS 2
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

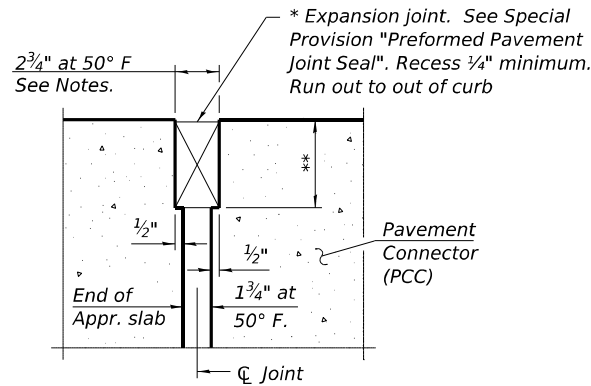
SHEET S1-24 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	535
		CONTRACT NO. 62R27		
ILLINOIS		FED. AID PROJECT		

MODEL: Drawing
FILE NAME: pw://transsystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-025-ApprSlab_Details1.dgn

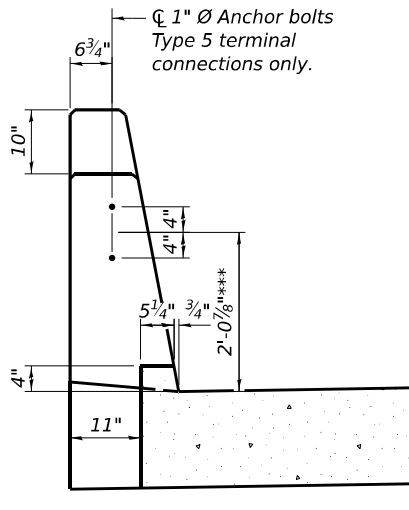


WEST APPROACH PLAN - WESTBOUND



DETAIL A

(at Rt. L's)



VIEW B-B

APPROACH FOOTING ELEVATIONS

Point	WB W Approach	
	Top	Bottom
A	603.37	602.54
B	604.25	603.42
C	605.15	604.31
D	603.30	602.47
E	604.18	603.35
F	605.07	604.24

Notes:
See sheet S1-29 of S1-47 for Section A-A and Inside Elevation of Median Parapet (WB).
See sheet S1-30 of S1-47 for Cross Sections, Inside Elevation of Exterior Parapet and Curb, bar bends, and Westbound Bill of Materials.
a10(E) thru a14(E) bar spacings measured along WB PGL I-80.

* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations
*** Dimension after grinding

TRANSYSTEMS

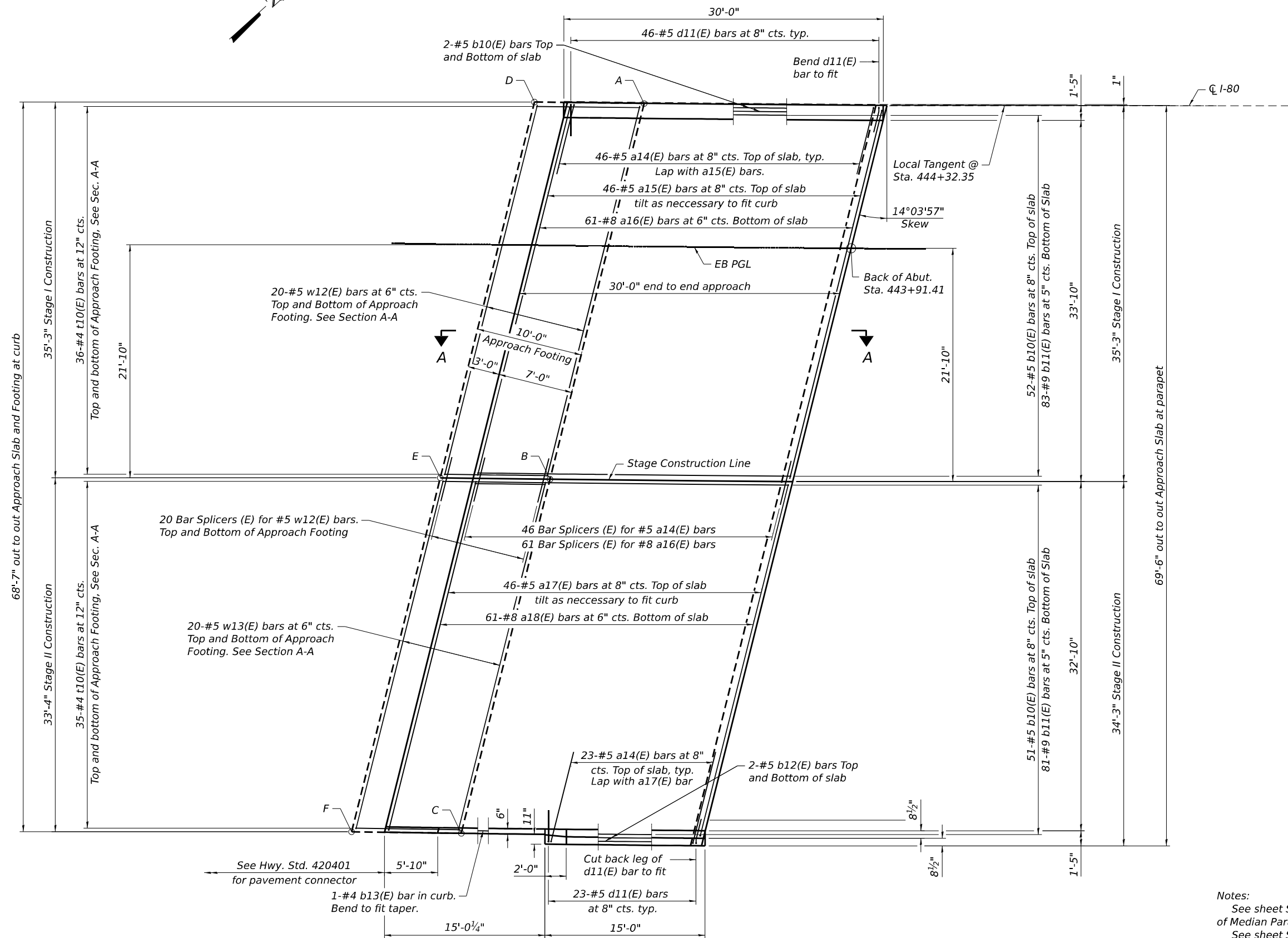
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CHECKED	- WJC	REVIS	-	REVIS	-
PLOT SCALE	= NTS	DRAWN	- IS	REVISED	-
PLOT DATE	= 6/23/2023	CHECKED	- WJC	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS 1
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET S1-25 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	536
ILLINOIS				FED. AID PROJECT



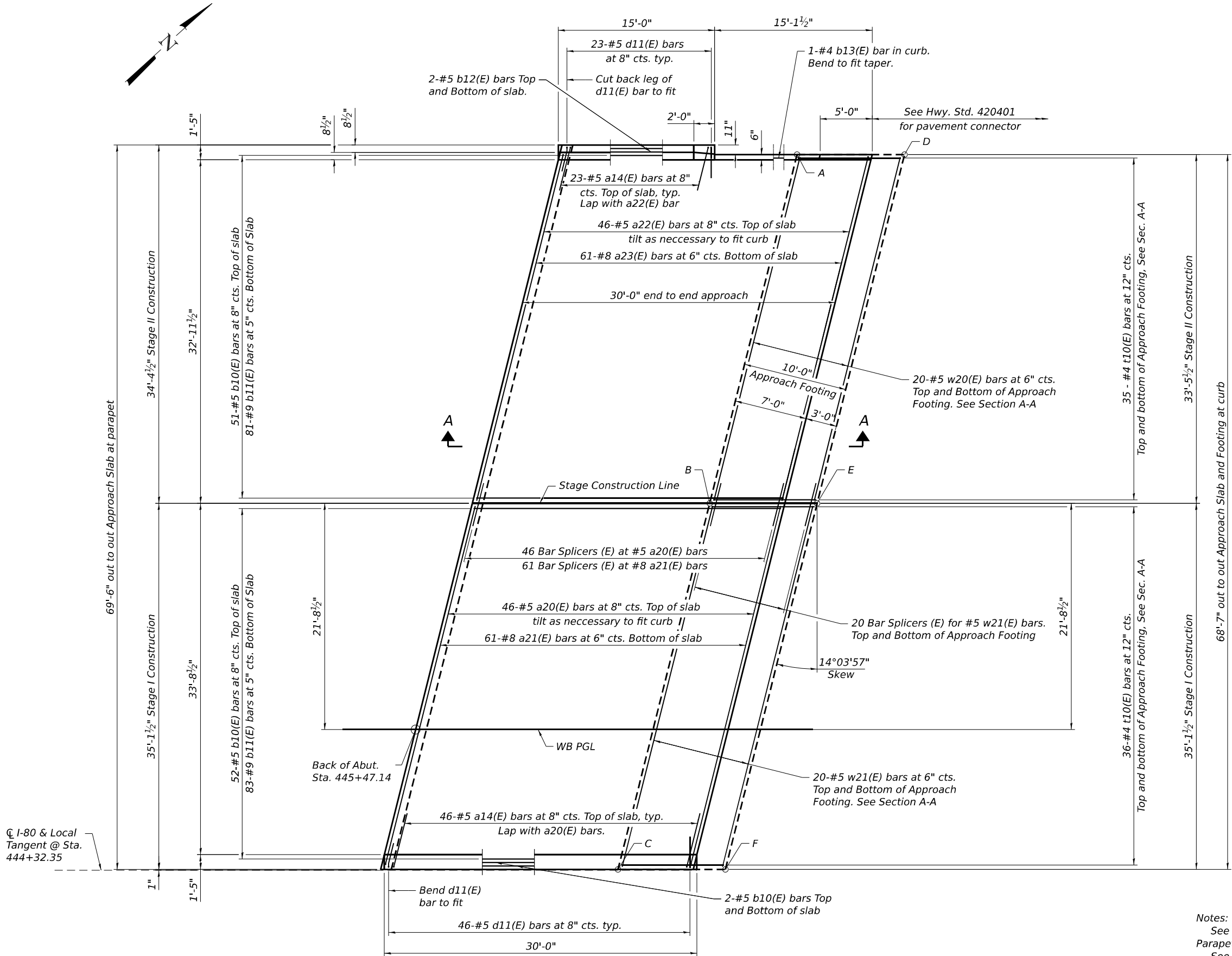
WEST APPROACH PLAN - EASTBOUND

APPROACH FOOTING ELEVATIONS

Point	EB W Approach	
	Top	Bottom
A	603.05	602.21
B	603.95	603.12
C	604.83	603.99
D	602.98	602.15
E	603.88	603.05
F	604.77	603.94

Notes:
 See sheet S1-29 of S1-47 for Cross Section, Section A-A, Inside Elevation of Median Parapet (EB), and Eastbound Bill of Materials.
 See sheet S1-30 of S1-47 for Inside Elevation of Exterior Parapet and Curb, and bar bends.
 a14(E) thru a18(E) bar spacings measured along EB PGL I-80.

MODEL: Drawing
FILE NAME: pw://transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-027-ApprSlab_Details3.dgn



EAST APPROACH PLAN - WESTBOUND

APPROACH FOOTING ELEVATIONS

Point	WB E Approach	
	Top	Bottom
A	603.84	603.01
B	604.78	603.95
C	605.75	604.91
D	603.82	602.99
E	604.77	603.93
F	605.73	604.90

Notes:
See sheet S1-29 of S1-47 for Section A-A and Inside Elevation of Median Parapet (WB).
See sheet S1-30 of S1-47 for Cross Sections, Inside Elevation of Exterior Parapet and Curb, bar bends, and Westbound Bill of Materials.
a14(E) and a20(E) thru a23(E) bar spacings measured along WB PGL I-80.

TRANSYSTEMS

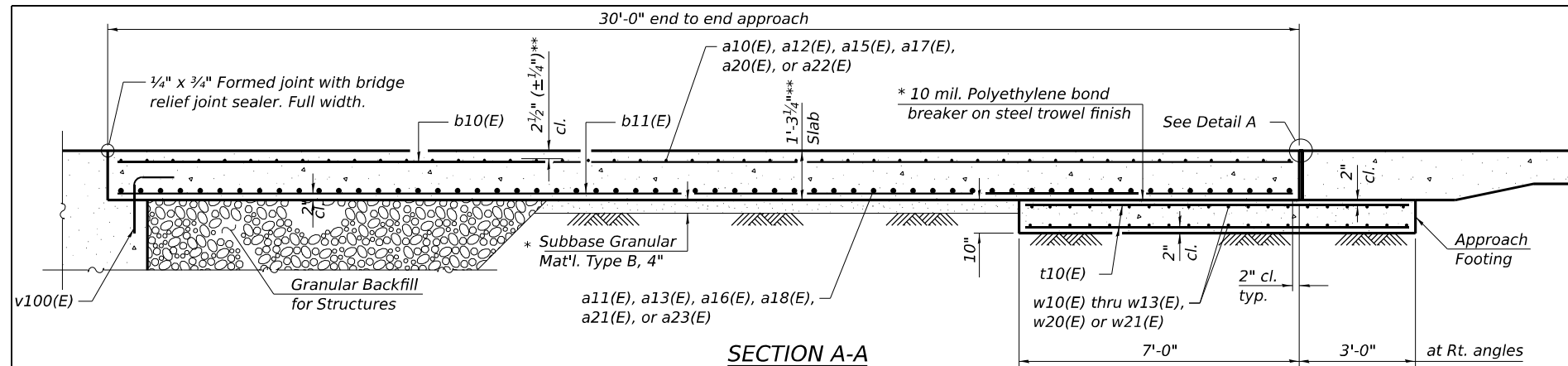
PLOT SCALE = NTS	USER NAME = amkluver	DESIGNED - IS	REVISED -
		CHECKED - WJC	REVISED -
	PLOT DATE = 6/23/2023	DRAWN - IS	REVISED -
		CHECKED - WJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS 3
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET S1-27 OF S1-47 SHEETS

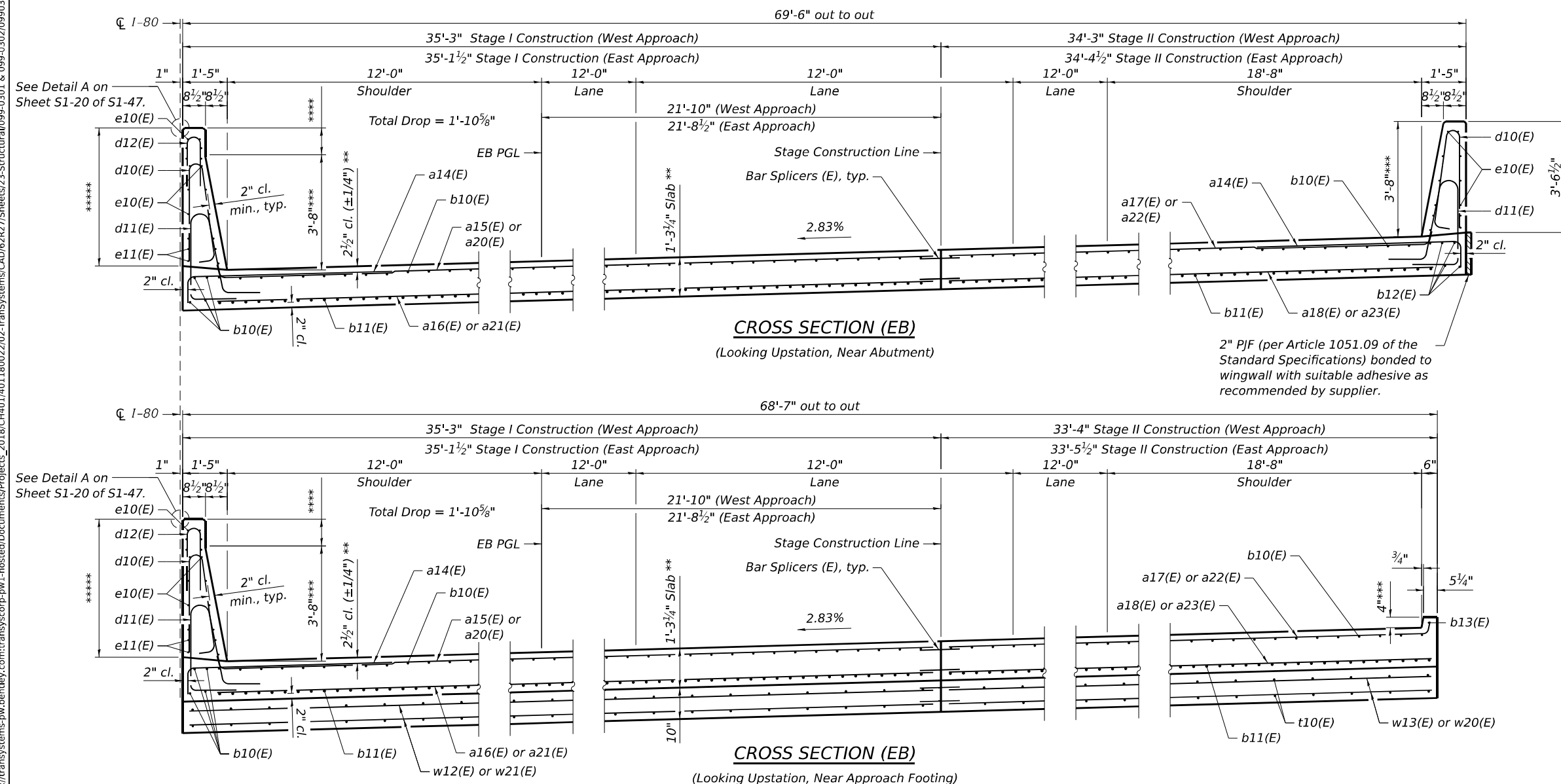
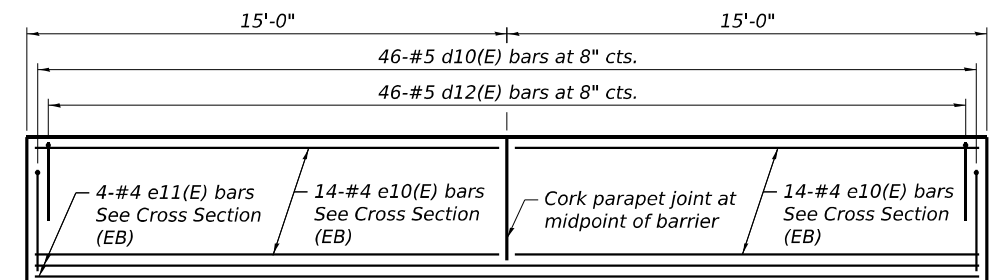
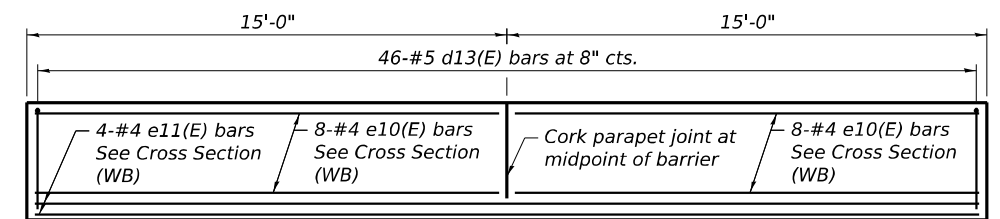
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	538
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				



Notes:

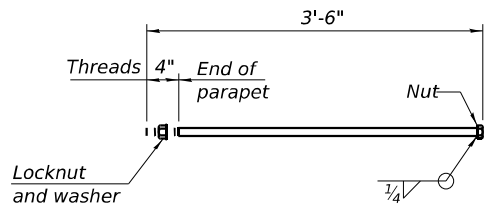
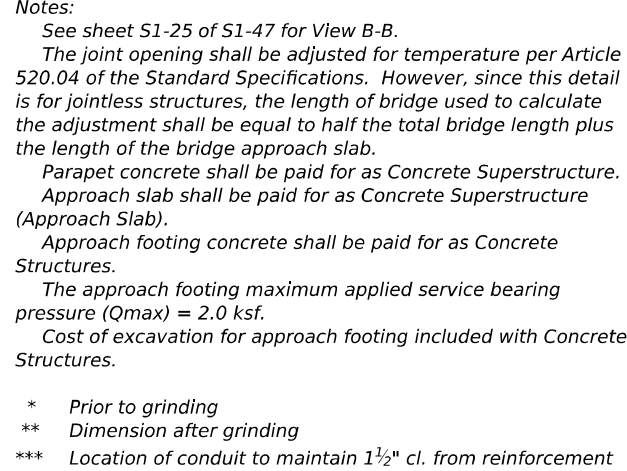
See sheet S1-25 of S1-47 for Detail A.
See sheet S1-30 of S1-47 for bar bends and Westbound Bill of Materials.
For Granular Backfill for Structures and drainage treatment details, see sheet S1-03 of S1-47.

* Cost included with Concrete Superstructure (Approach Slab).
 ** Prior to grinding
 *** Dimension after grinding
 **** 2'-1⁵/₈" to 2'-1³/₈" (West Approach) and 2'-0⁵/₈" to 2'-1" (East Approach)
 ***** 5'-9¹/₈" to 5'-9³/₈" (West Approach) and 5'-8⁵/₈" to 5'-9" (East Approach)



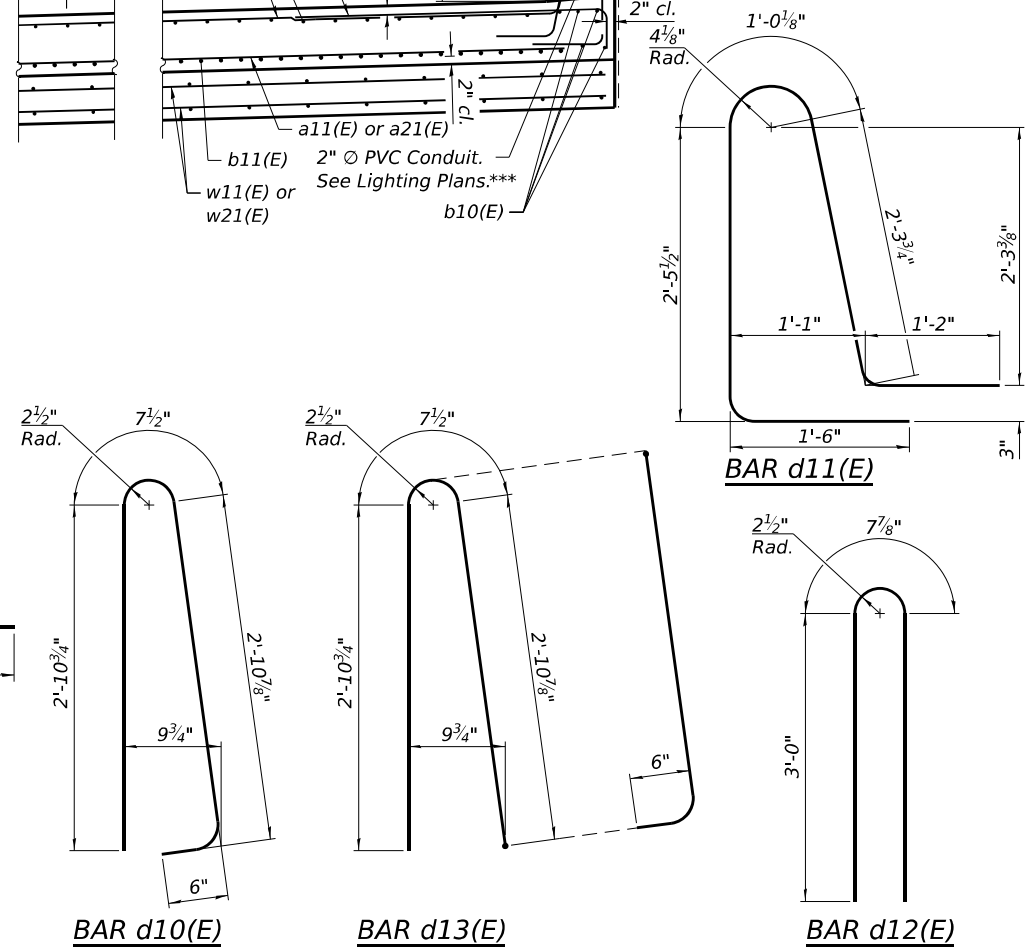
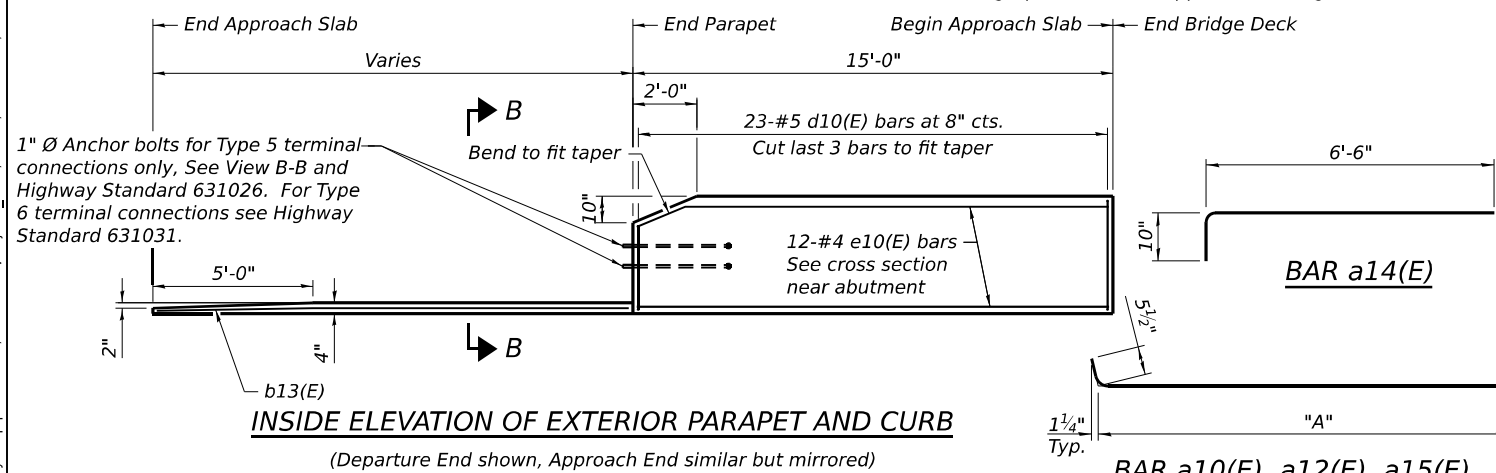
EASTBOUND BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a14(E)	138	#5	7'-4"	
a15(E)	46	#5	35'-4"	
a16(E)	61	#8	34'-10"	
a17(E)	46	#5	34'-2"	
a18(E)	61	#8	33'-8"	
a20(E)	46	#5	35'-3"	
a21(E)	61	#8	34'-9"	
a22(E)	46	#5	34'-5"	
a23(E)	61	#8	33'-11"	
b10(E)	214	#5	29'-8"	
b11(E)	328	#9	29'-8"	
b12(E)	8	#5	14'-8"	
b13(E)	2	#4	14'-8"	
d10(E)	138	#5	7'-0"	
d11(E)	138	#5	8'-7"	
d12(E)	92	#5	6'-8"	
e10(E)	80	#4	14'-8"	
e11(E)	8	#4	29'-8"	
t10(E)	284	#4	10'-0"	
w12(E)	40	#5	35'-11"	
w13(E)	40	#5	33'-10"	
w20(E)	40	#5	34'-1"	
w21(E)	40	#5	35'-10"	
Concrete Structures			Cu. Yd.	44.7
Concrete Superstructure			Cu. Yd.	16.2
Protective Coat			Sq. Yd.	510
Concrete Superstructure (Approach Slab)			Cu. Yd.	195.2
Reinforcement Bars, Epoxy Coated			Pound	81,480
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	240
Diamond Grinding (Bridge Section)			Sq. Yd.	574

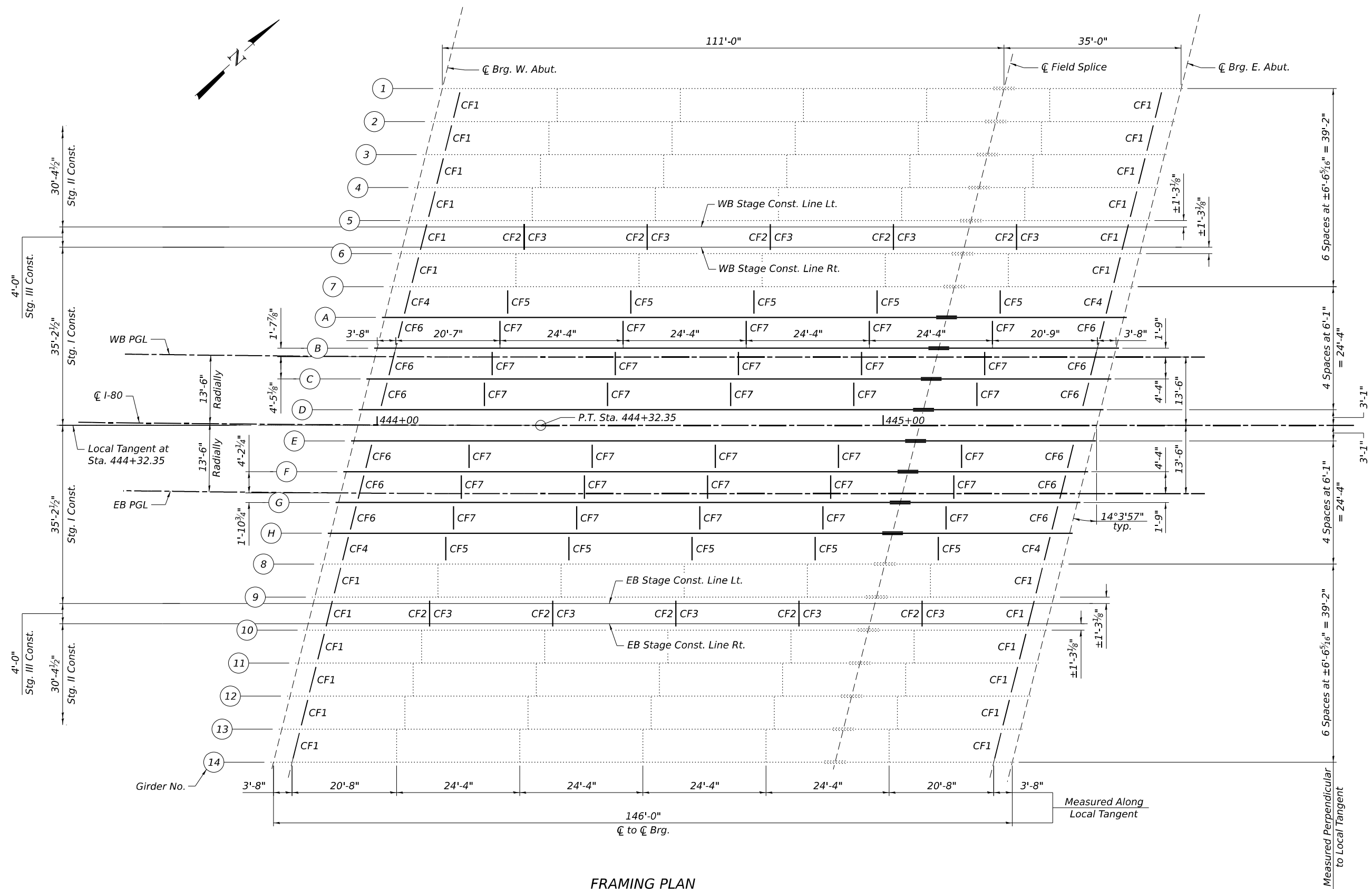


*** 1" Ø ANCHOR BOLT**
(Anchor bolt assemblies shall be
galvanized according to Article 1006.09
of the Standard Specifications)

Bar	No.	Size	Length	Shape
a10(E)	46	#5	35'-0"	
a11(E)	61	#8	34'-6"	
a12(E)	46	#5	34'-5"	
a13(E)	61	#8	33'-11"	
a14(E)	138	#5	7'-4"	
a20(E)	46	#5	35'-3"	
a21(E)	61	#8	34'-9"	
a22(E)	46	#5	34'-5"	
a23(E)	61	#8	33'-11"	
b10(E)	214	#5	29'-8"	
b11(E)	328	#9	29'-8"	
b12(E)	8	#5	14'-8"	
b13(E)	2	#4	14'-8"	
d10(E)	46	#5	7'-0"	
d11(E)	138	#5	8'-7"	
d13(E)	92	#5	7'-0"	
e10(E)	56	#4	14'-8"	
e11(E)	8	#4	29'-8"	
t10(E)	284	#4	10'-0"	
w10(E)	40	#5	34'-1"	
w11(E)	40	#5	35'-8"	
w20(E)	40	#5	34'-1"	
w21(E)	40	#5	35'-10"	
Concrete Structures			Cu. Yd.	44.8
Concrete Superstructure			Cu. Yd.	12.8
Protective Coat			Sq. Yd.	496
Concrete Superstructure (Approach Slab)			Cu. Yd.	195.2
Reinforcement Bars, Epoxy Coated			Pound	80,590
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	240
Diamond Grinding (Bridge Section)			Sq. Yd.	574

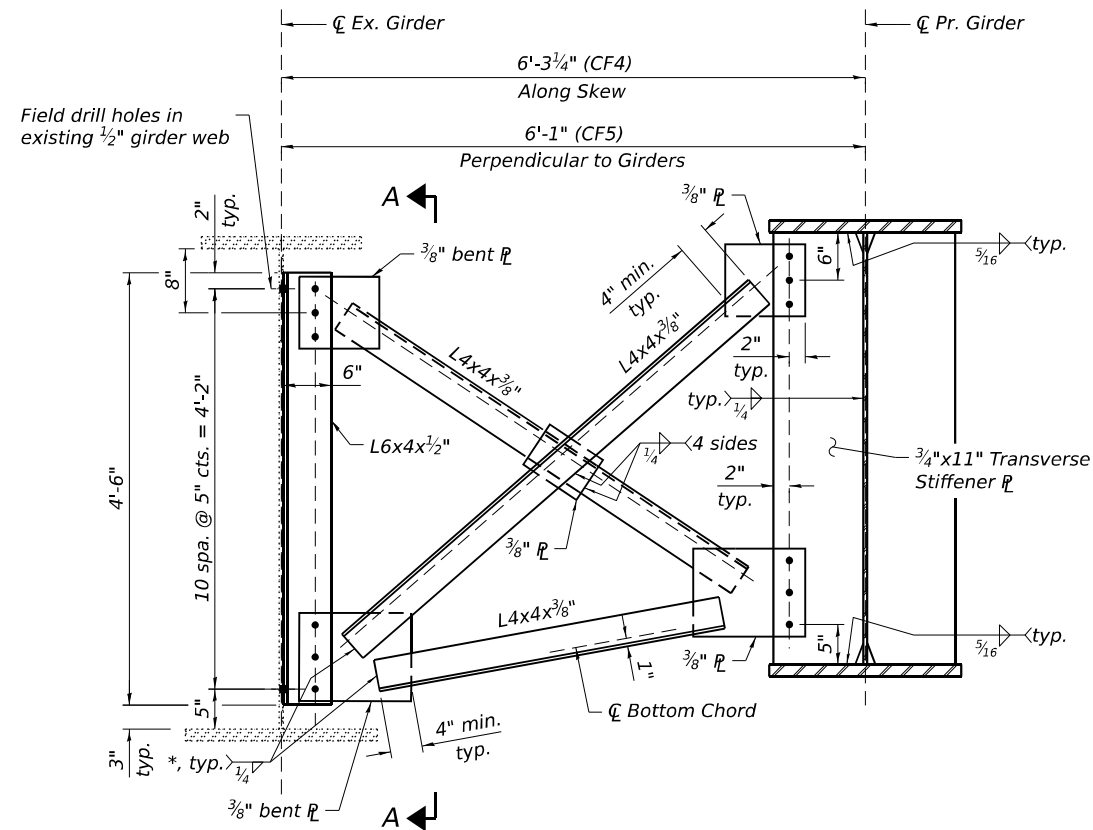


<i>Bar</i>	"A"
<i>a10(E)</i>	34'-6"
<i>a12(E)</i>	33'-11"
<i>a15(E)</i>	34'-10"
<i>a17(E)</i>	33'-8"
<i>a20(E)</i>	34'-9"
<i>a22(E)</i>	33'-11"



FRAMING PLAN

MODEL: Untitled
FILE NAME: pw://transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-033-Ex_Beam2.dgn



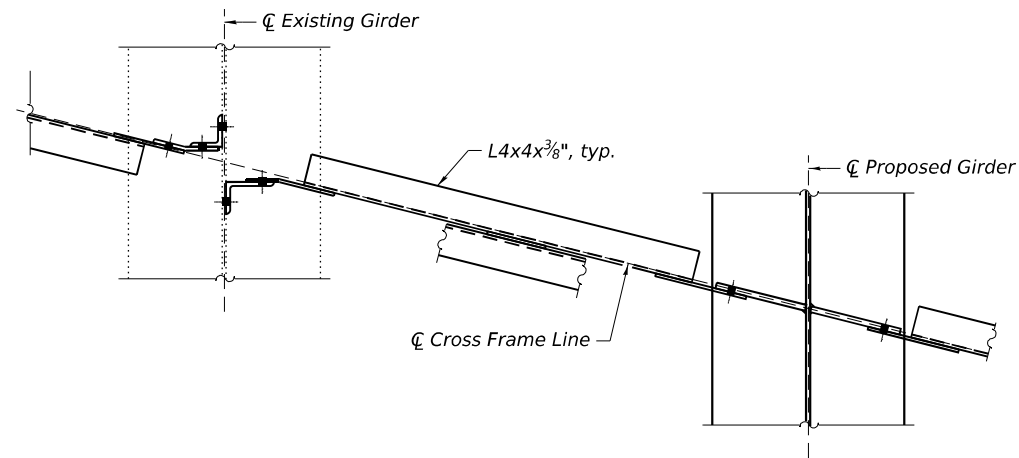
CROSS FRAME CF4

(4 Required)

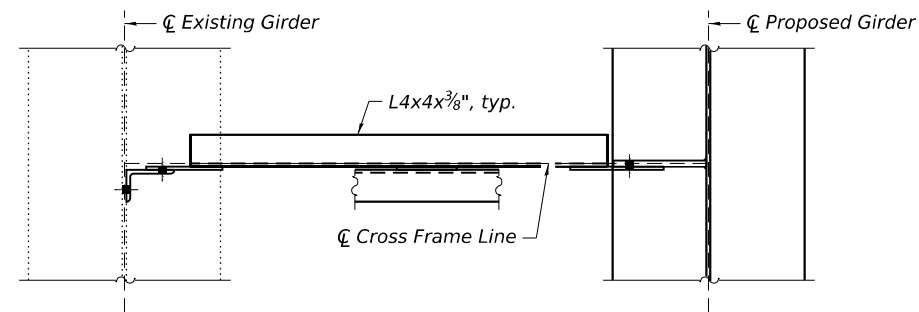
CROSS FRAME CF5

(10 Required)

* Fillet weld angles along 3 sides on one face of gusset plate.



CROSS FRAME CF4
PLAN VIEW AT CONNECTION



CROSS FRAME CF5
PLAN VIEW AT CONNECTION

Notes:

- Bolts for cross frames shall be $\frac{7}{8}$ " $\varnothing$ with $1\frac{1}{16}$ " $\varnothing$ holes unless noted otherwise.
- Two hardened washers required for each set of oversized holes.
- 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.
- Field drilling of holes included with the cost of Furnishing and Erecting Structural Steel.
- For Section A-A, see sheet S1-32 of S1-47 .
- For stiffener clip and weld details, see sheet S1-35 of S1-47 .
- Holes are shop drilled unless noted otherwise.

TRANSYSTEMS

USER NAME	=	amkluver	DESIGNED	-	TJA	REVISED	-
			CHECKED	-	ESS	REVISED	-
PLOT SCALE	=	NTS	DRAWN	-	TJA	REVISED	-
PLOT DATE	=	6/23/2023	CHECKED	-	WJC	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING GIRDER DETAILS 2
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET S1-33 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	544
				CONTRACT NO. 62R27
		ILLINOIS	FED. AID PROJECT	

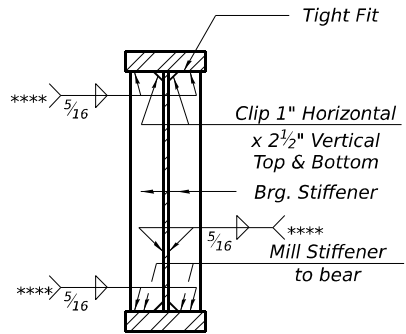
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PROPOSED INTERIOR GIRDER MOMENT TABLE		
	0.24 or 0.76 Sp. 1	0.5 Sp. 1
Is	(in ⁴)	62,019
Ic(n)	(in ⁴)	106,789
Ic(3n)	(in ⁴)	82,780
Ss	(in ³)	2,176
Sc(n)	(in ³)	2,525
Sc(3n)	(in ³)	2,371
Z	(in ³)	245
ϕ	(k/')	1.18
Mϕ	('k)	2,263
sϕ	(k/')	0.20
Msϕ	('k)	387
M _l	('k)	968
MIM	('k)	179
⁵ ₃ [M _l + I]	('k)	1,911
Ma	('k)	5,929
Mu	('k)	12,266
fsϕ non-comp	(ksi)	12.5
fs ϕ(comp)	(ksi)	2.0
fs ⁵ ₃ [M _l + M _l]	(ksi)	9.1
fs (Overload)	(ksi)	23.5
fs (Total)	(ksi)	-
VR	(k)	-

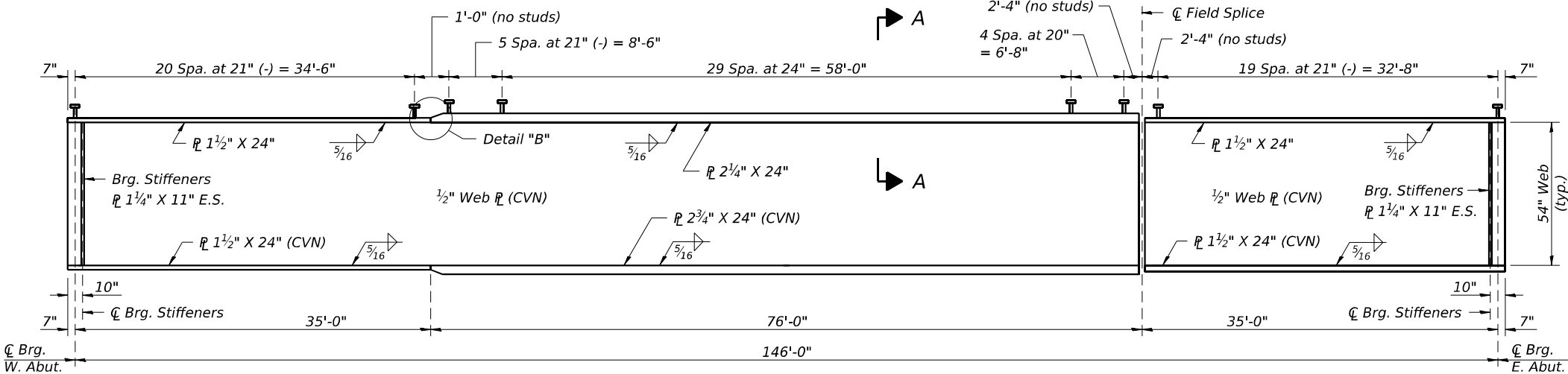
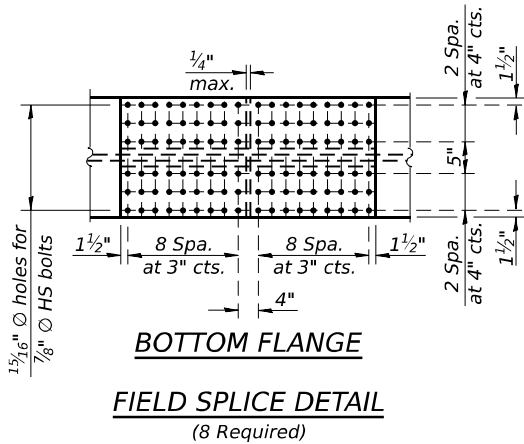
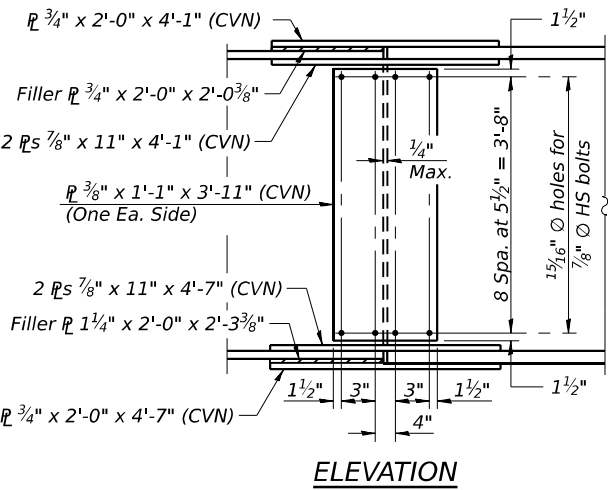
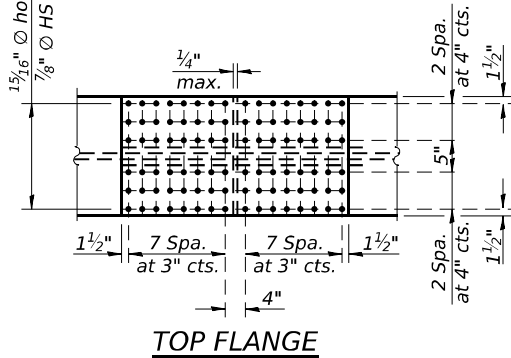
PROPOSED INTERIOR GIRDER REACTION TABLE	
	Abut.
R ϕ	(k)
R _l	(k)
R _I	(k)
R _{Total}	(k)

* Compact section
** Braced non-compact and partially braced section

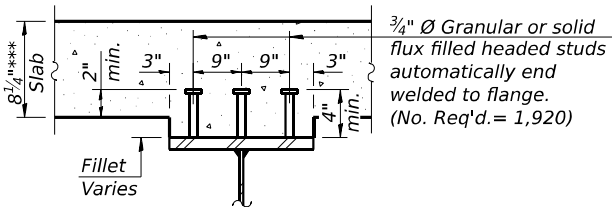
Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total and Overload) due to non-composite dead loads (in.⁴ and in.³).
Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total and Overload) due to short-term composite live loads (in.⁴ and in.³).
Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total and Overload) due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
Z: Plastic Section Modulus of the steel section in non-composite areas (in.³).
ϕ: Un-factored non-composite dead load (kips/ft.).
Mϕ: Un-factored moment due to non-composite dead load (kip-ft.).
sϕ: Un-factored long-term composite (superimposed) dead load (kips/ft.).
Msϕ: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
M_l: Un-factored live load moment (kip-ft.).
MI: Un-factored moment due to impact (kip-ft.).
Ma: Factored design moment (kip-ft.).
1.3 [Mϕ + Msϕ + ⁵₃ (M_l + MI)]
Mu: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
fs (Overload): Sum of stresses as computed from the moments below (ksi).
Mϕ + Msϕ + ⁵₃ (M_l + MI)
fs (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
1.3 [Mϕ + Msϕ + ⁵₃ (M_l + MI)]
VR: Maximum_l + impact shear range within the composite portion of the span for stud shear connector design (kips).



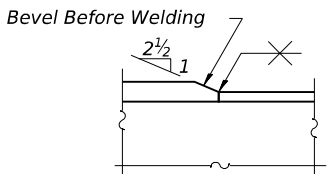
SECTION
AT ABUTMENT
**** Terminate 1/4" (±1/8") from the end of plate intersects.
For alternate clip details, see sheet S1-35 of S1-47.



GIRDER ELEVATION - GIRDERS A THRU H



SECTION A-A
*** Prior to Grinding



DETAIL "B"

Notes:
E.S. = Each Side
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.
All structural steel for girders, bearing stiffener plates, and splice plates except fill plates shall be AASHTO M270 Grade 50.

TRANSYSTEMS

USER NAME = amkluver	DESIGNED - TJA	REVISED -
PLOT SCALE = NTS	CHECKED - ESS	REVISED -
PLOT DATE = 7/27/2023	DRAWN - TJA	REVISED -
	CHECKED - WJC	REVISED -

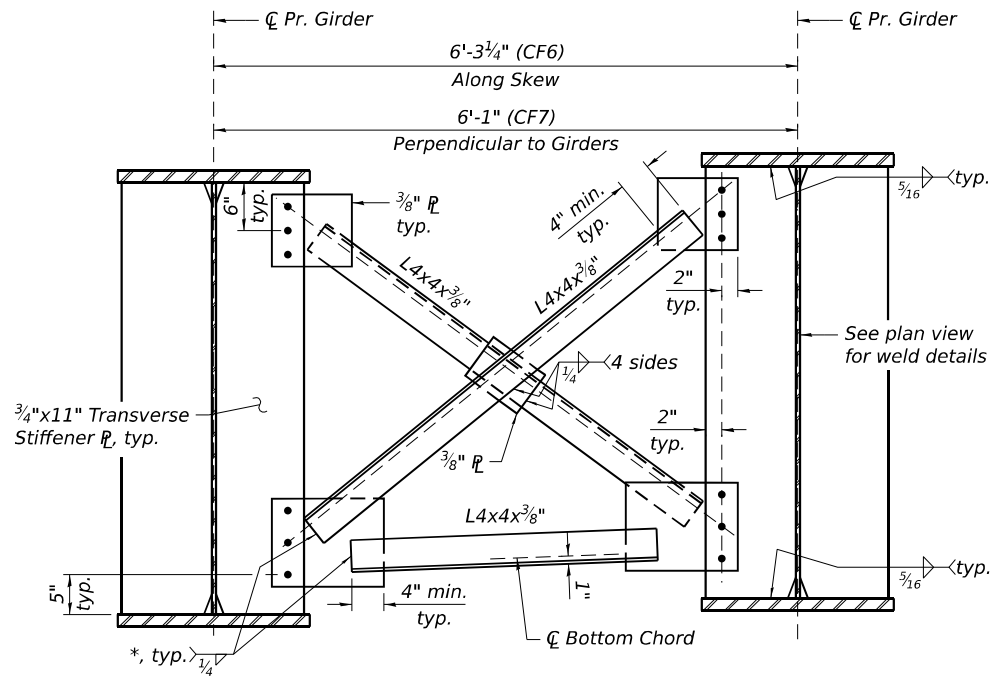
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER ELEVATION & DETAILS
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET S1-34 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	545
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

MODEL: Drawing
FILE NAME: pw://transsystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-035-SteelDetails.dgn



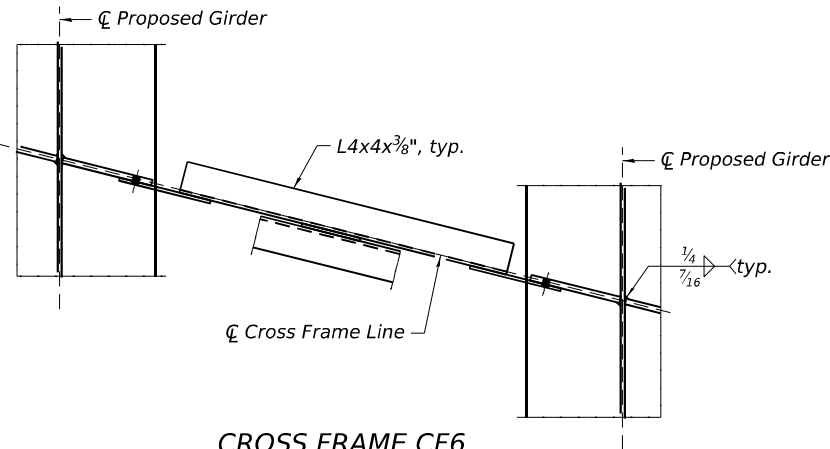
CROSS FRAME CF6

(12 Required)

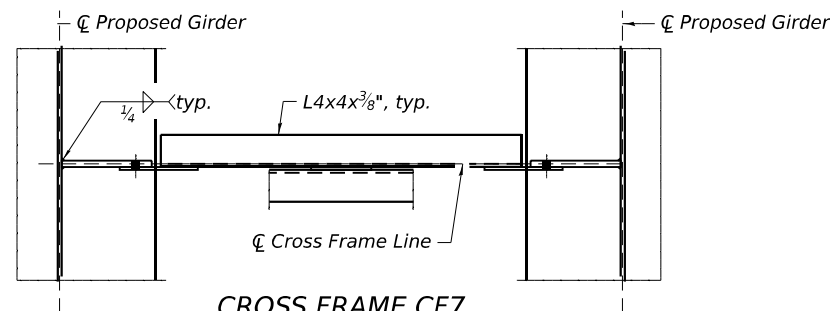
CROSS FRAME CF7

(30 Required)

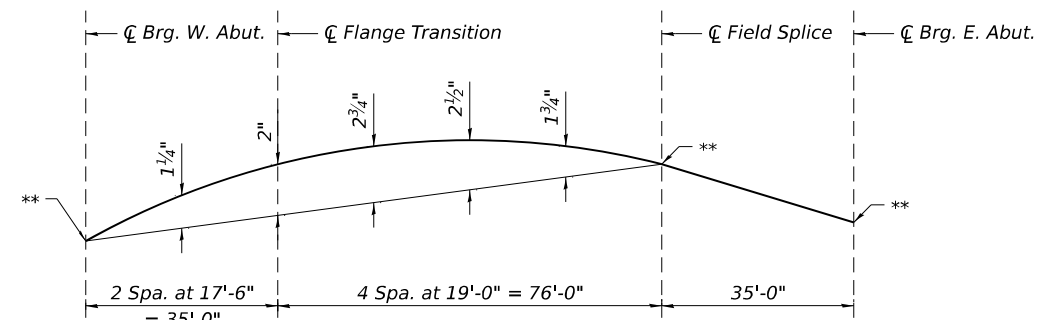
* Fillet weld angles along 3 sides on one face of gusset plate.



**CROSS FRAME CF6
PLAN VIEW AT CONNECTION**



**CROSS FRAME CF7
PLAN VIEW AT CONNECTION**



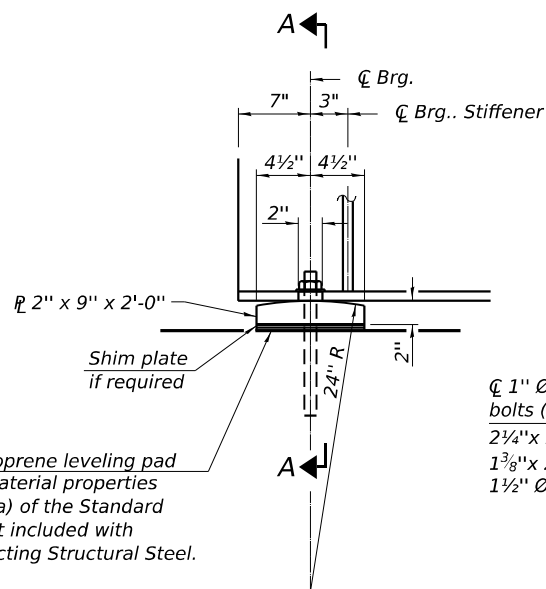
CAMBER DIAGRAM

** Top of Web Elevations

TOP OF WEB ELEVATIONS

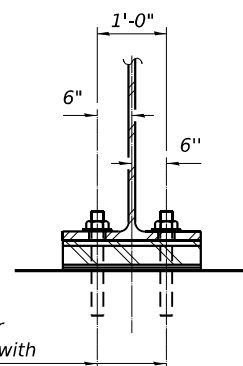
Girder	☐ Brg. W. Abut.	☐ Field Splice	☐ Brg. E. Abut.
A	605.14	605.65	605.56
B	605.31	605.82	605.73
C	605.47	605.99	605.90
D	605.63	606.16	606.08
E	603.60	604.14	604.08
F	603.77	604.31	604.25
G	603.93	604.48	604.42
H	604.10	604.64	604.59

(For fabrication only)



ELEVATION AT ABUTMENT

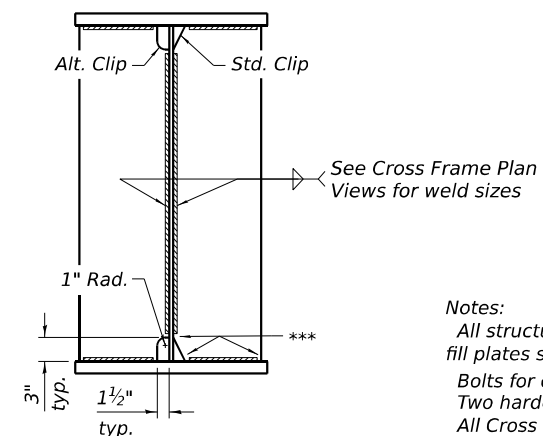
FIXED BEARING - ABUTMENTS



SECTION A-A

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	32



**TRANSVERSE STIFFENER
WELD LIMITS AND CLIP DETAILS**

*** Stop welds 1/4" (1/8") from edges as shown. Typical.

Notes:

All structural steel for girders, bearing stiffener plates, and splice plates except fill plates shall be AASHTO M270 Grade 50.

Bolts for cross frames shall be 7/8" Ø with 1 1/16" Ø holes unless noted otherwise. Two hardened washers required for each set of oversized holes.

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.

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Fixed Bearing Assembly included in "Furnishing and Erecting Structural Steel."

Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.

The structure steel plates of the Bearing shall conform to the requirements of AASHTO M270 Grade 50.

TRANSYSTEMS

USER NAME = amkluver	DESIGNED - TJA	REVISED -
PLOT SCALE = NTS	CHECKED - ESS	REVISED -
PLOT DATE = 7/27/2023	DRAWN - TJA	REVISED -
	CHECKED - WJC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)**

SHEET S1-35 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	546
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

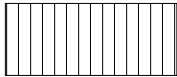
ABUTMENT REMOVAL NOTES:

- Existing reinforcement shall be cleaned and incorporated into new construction as noted in these plans. As directed by the Engineer, any reinforcement called out for re-use that is damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- Removal of existing bridge deck and fillet concrete shall be included in the price bid for Removal of Existing Concrete Deck No. 1 or No. 2.
- Removal of existing junction boxes, conduits, underdeck lighting, deck drains, downspouts, and any other elements embedded in or attached to the structure shall not be paid for separately with costs included with Removal of Existing Concrete Deck No. 1 or No. 2.
- For removal of existing steel end diaphragms between the existing beams at abutments, see sheet S1-05 of S1-47
- See Sheet S1-37 of S1-47 for Sections A-A, B-B, C-C, and D-D.

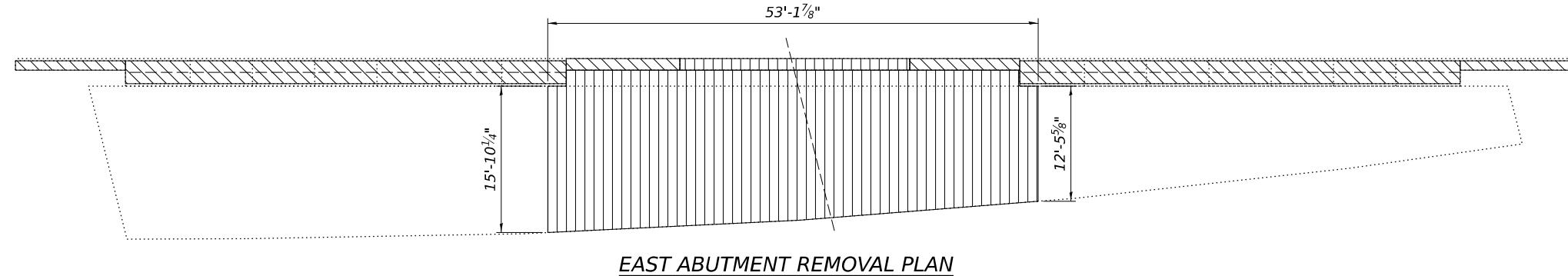
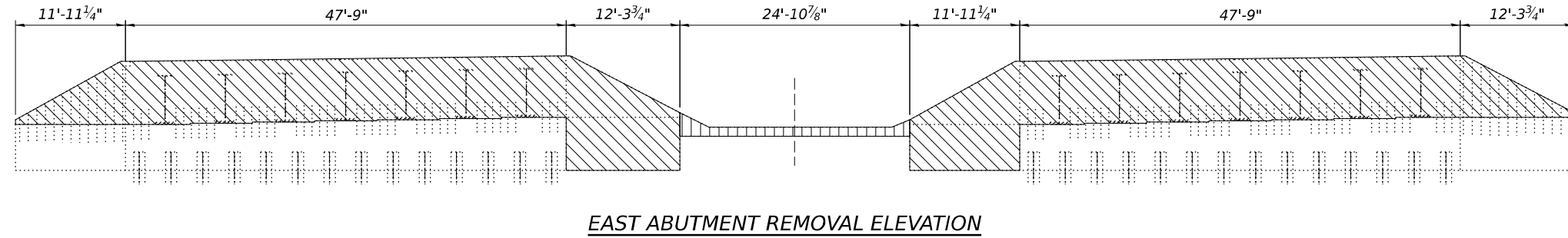
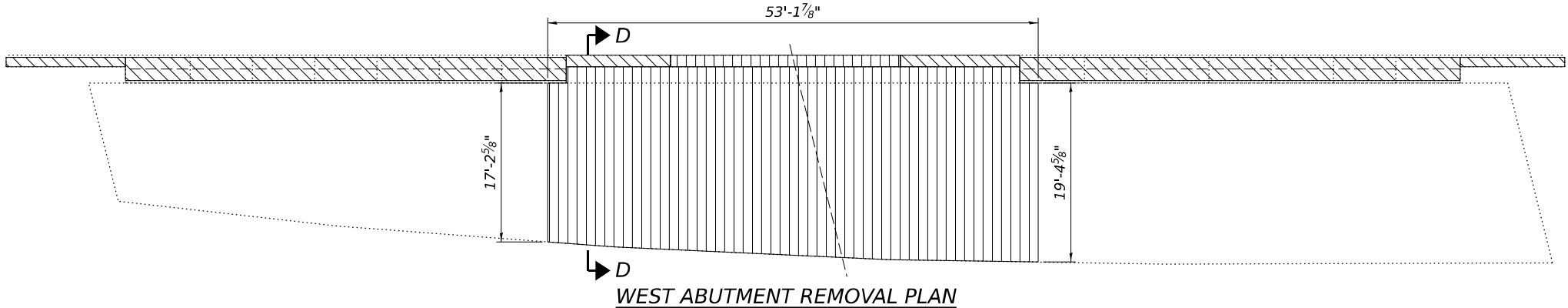
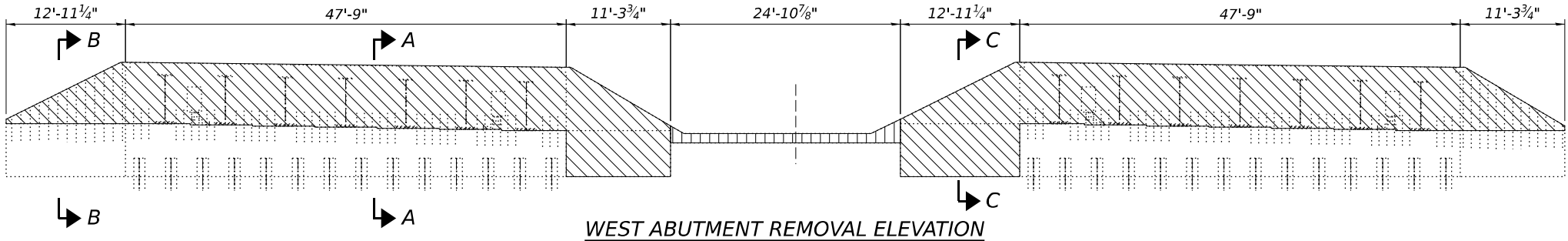
LEGEND



Concrete Removal



Slope Wall Removal



BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	130.5
Slope Wall Removal	Sq. Yd.	252

TRANSYSTEMS

USER NAME	=	amkluver
PLOT SCALE	=	NTS
PLOT DATE	=	7/27/2023

DESIGNED	-	TJJ
CHECKED	-	AMD
DRAWN	-	TJJ
CHECKED	-	AMD

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REMOVAL DETAILS 1
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

SHEET S1-36 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	547
CONTRACT NO. 62R27				
ILLINOIS				FED. AID PROJECT

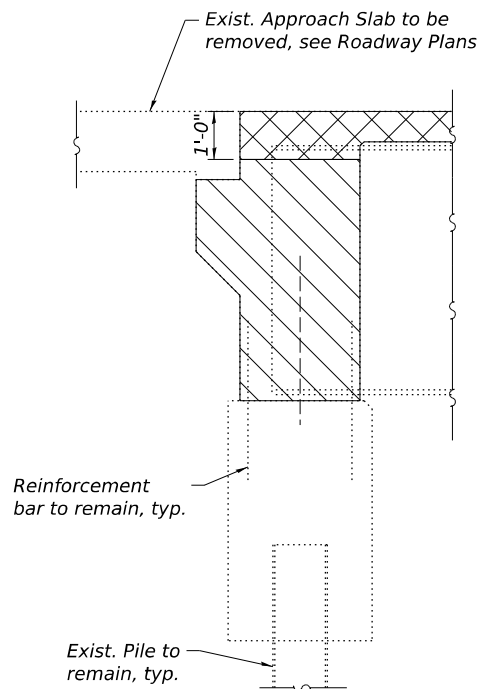
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Concrete Removal

Slope Wall Removal

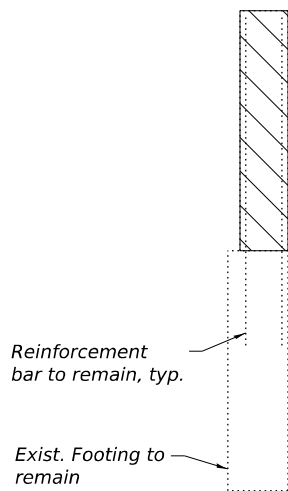
Removal of Existing Concrete Deck No. 1 or No. 2

LEGEND

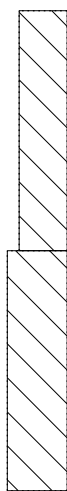


SECTION A-A

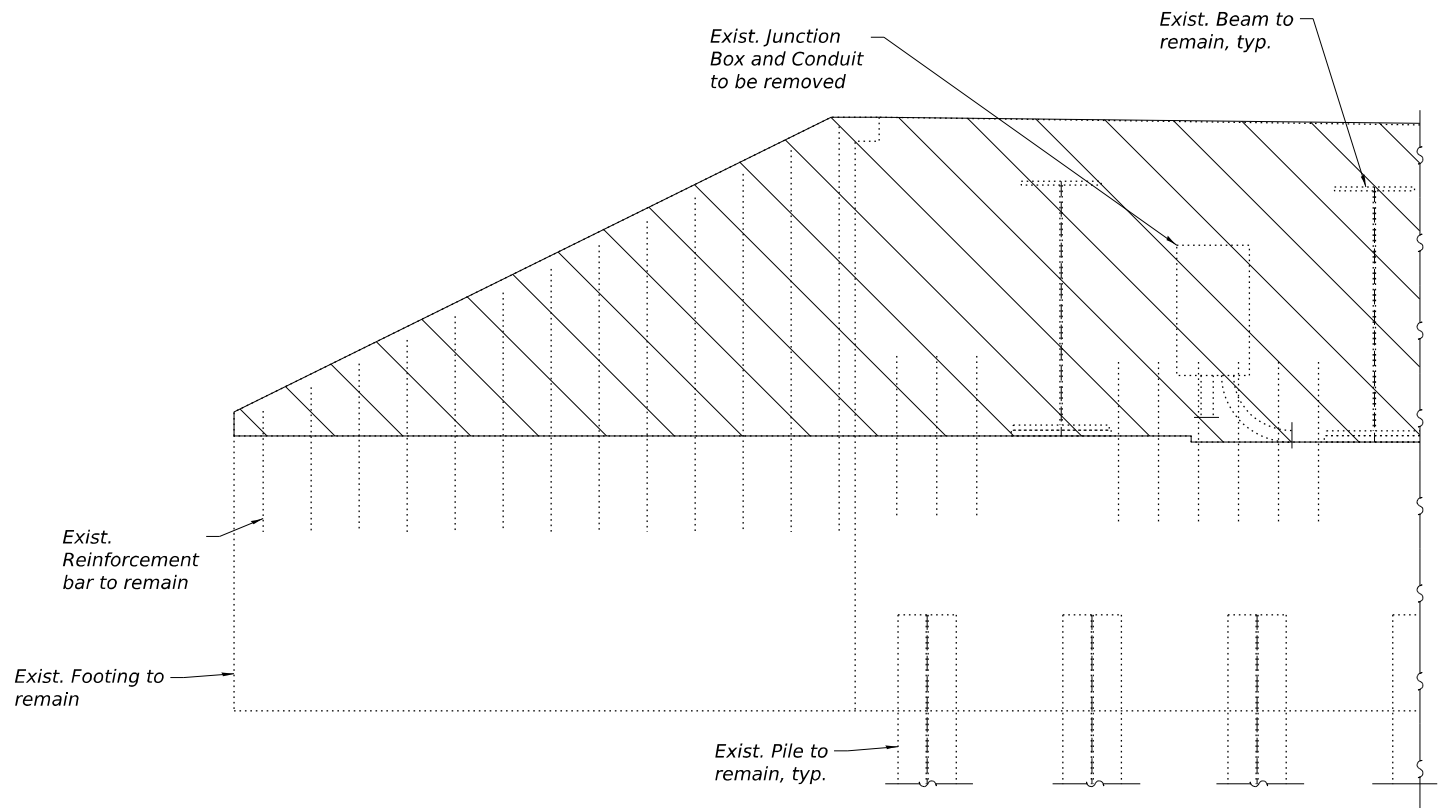
Existing steel end diaphragms not shown.
See sheet S1-05 of S1-47 for end diaphragm removal details.



SECTION B-B

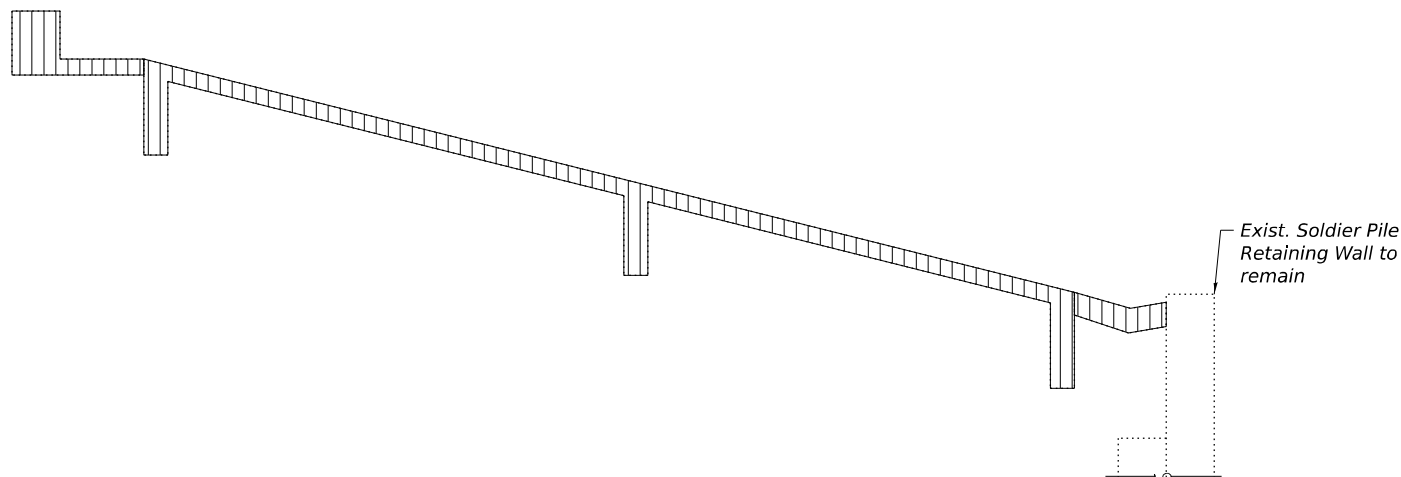


SECTION C-C



OUTSIDE ABUTMENT WINGWALL REMOVAL ELEVATION

WB Southwest corner shown, others similar
Existing steel end diaphragms not shown.



SECTION D-D

TRANSYSTEMS

USER NAME	=	amkluver
DESIGNED	-	TJJ
CHECKED	-	AMD
PLOT SCALE	=	NTS
DRAWN	-	TJJ
PLOT DATE	=	6/23/2023
CHECKED	-	AMD

REVISED	-
REVISED	-
REVISED	-
REVISED	-

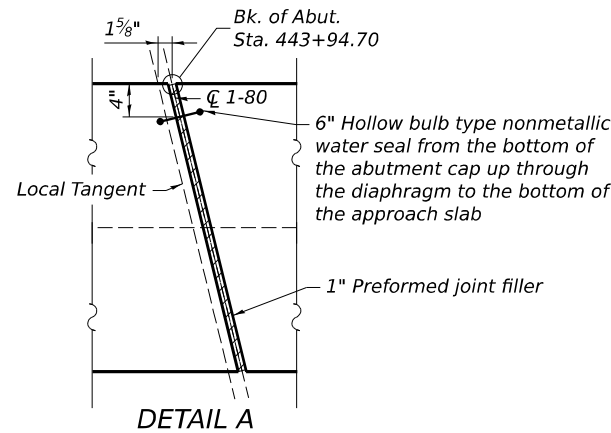
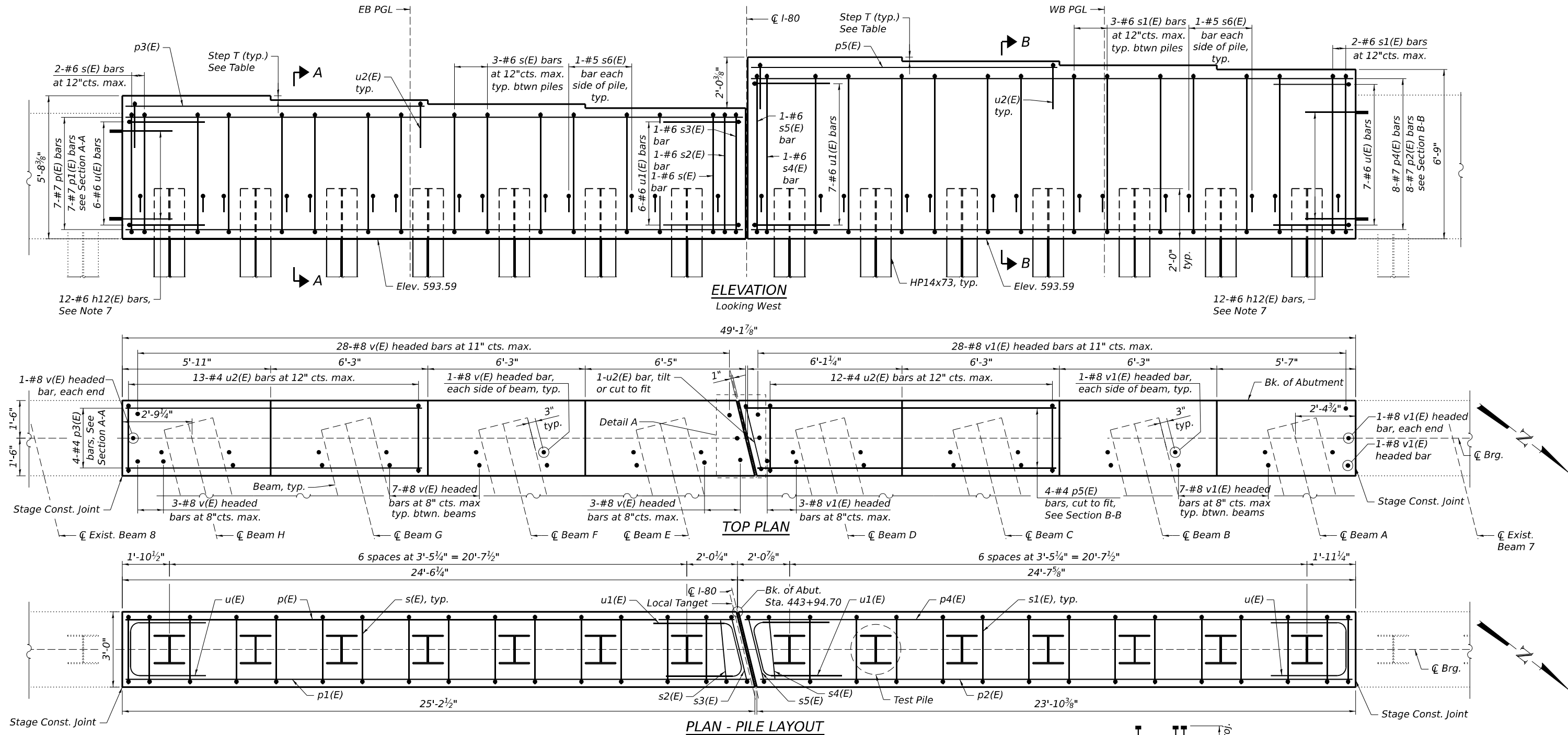
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT REMOVAL DETAILS 2
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)**

SHEET S1-37 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	548
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

MODEL: Drawing View
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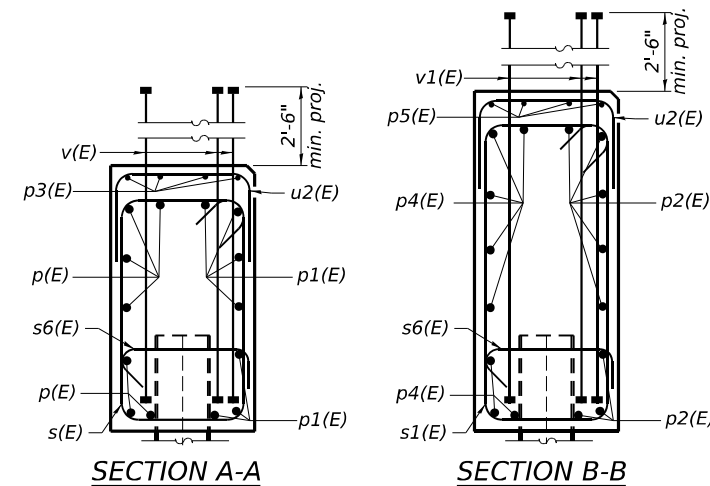


WEST ABUTMENT BEAM SEAT ELEVATIONS

Beam	Elev.	Step T (in)
A	600.34	2"
B	600.51	1 7/8"
C	600.67	1 7/8"
D	600.83	NA
E	598.80	1 7/8"
F	598.96	1 7/8"
G	599.12	1 7/8"
H	599.29	2"

PILE DATA - WEST ABUTMENT

Type: HP14x73 with pile shoes
Nominal Required Bearing: 578 kips
Allowable Resistance Available: 193 kips
Est. Length: 41 feet
No. Production Piles: 13
No. Test Piles: 1



- Notes:
- All costs associated with preformed joint filler and nonmetallic water seal shall be included in the price bid for Concrete Structures.
 - Nonmetallic water seal shall be per Article 1054 of the Standard Specifications.
 - Drill and grout bars as shown according to Article 584 of the Standard Specifications, all costs included with Concrete Structures.
 - Pour steps monolithically with cap.
 - Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
 - For details of piles see sheet S1-43 of S1-47.
 - Drill and grout bars according to Article 584 of the Standard Specifications with a minimum embedment of 7 inches for #6 bars. See Section E-E on sheet S1-39 of S1-47.

TRANSYSTEMS

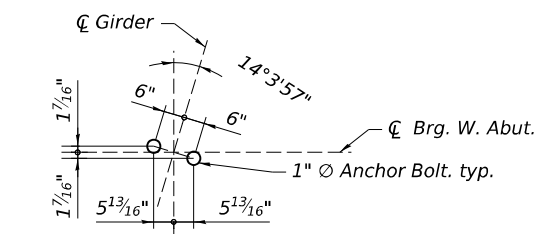
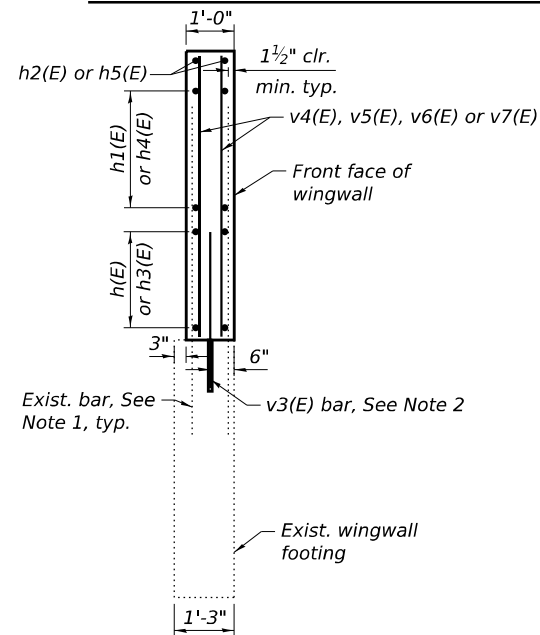
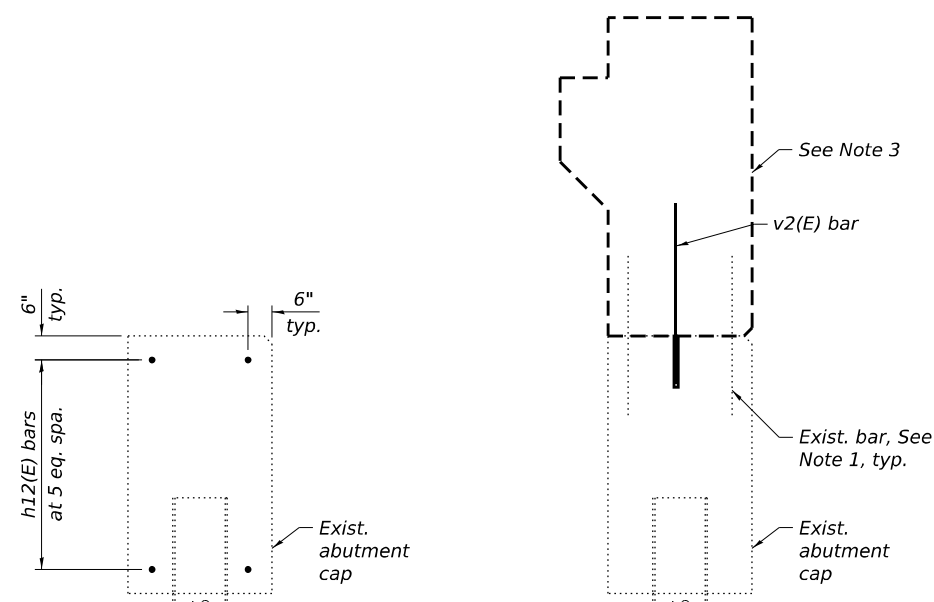
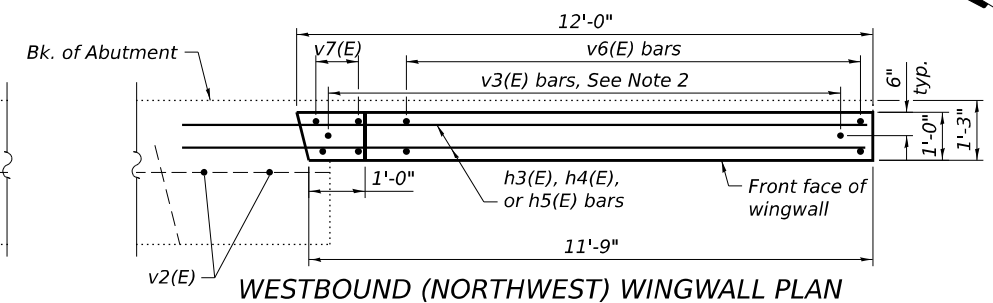
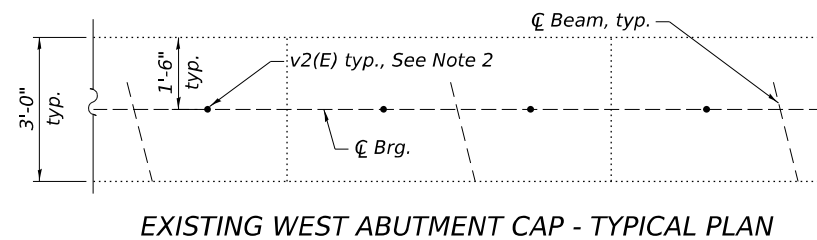
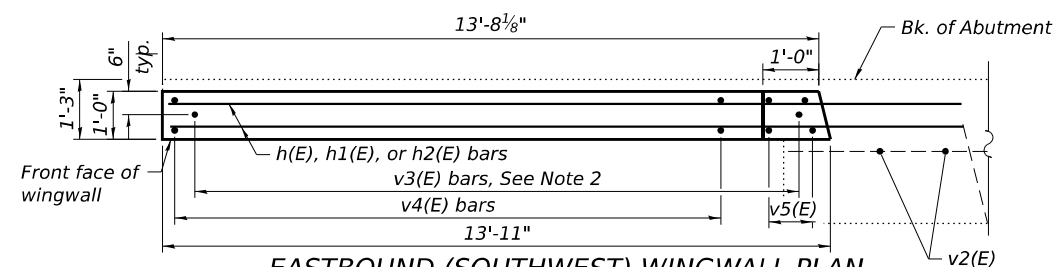
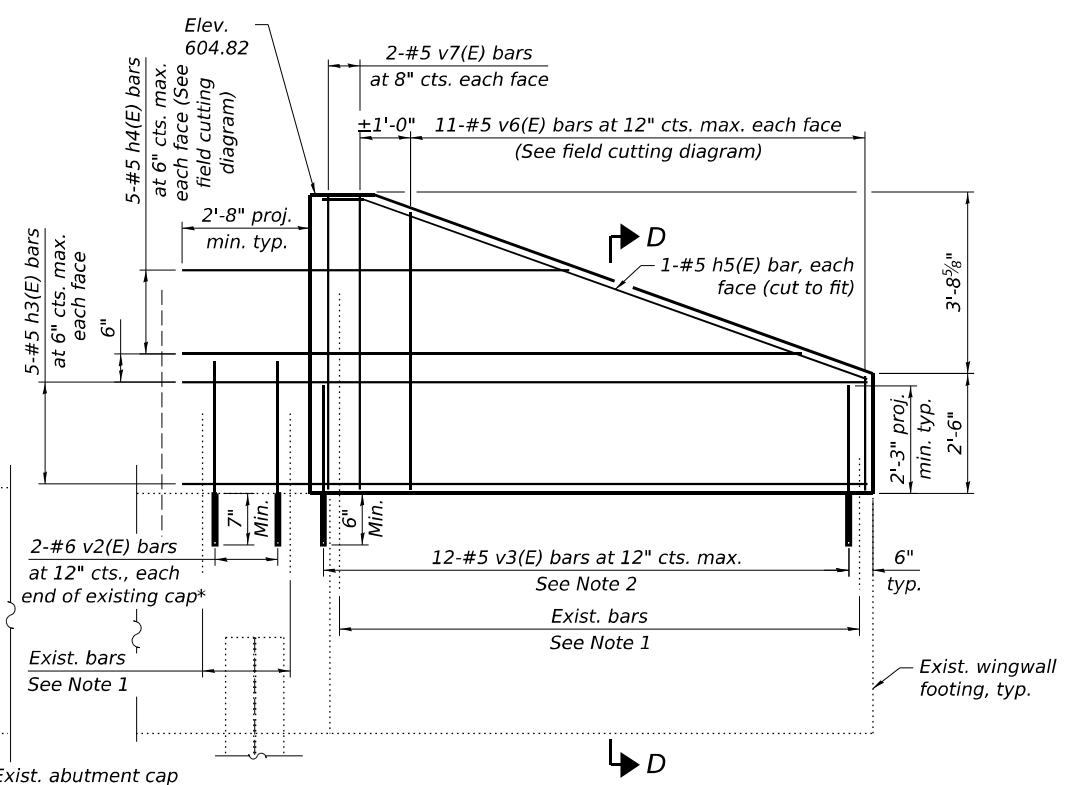
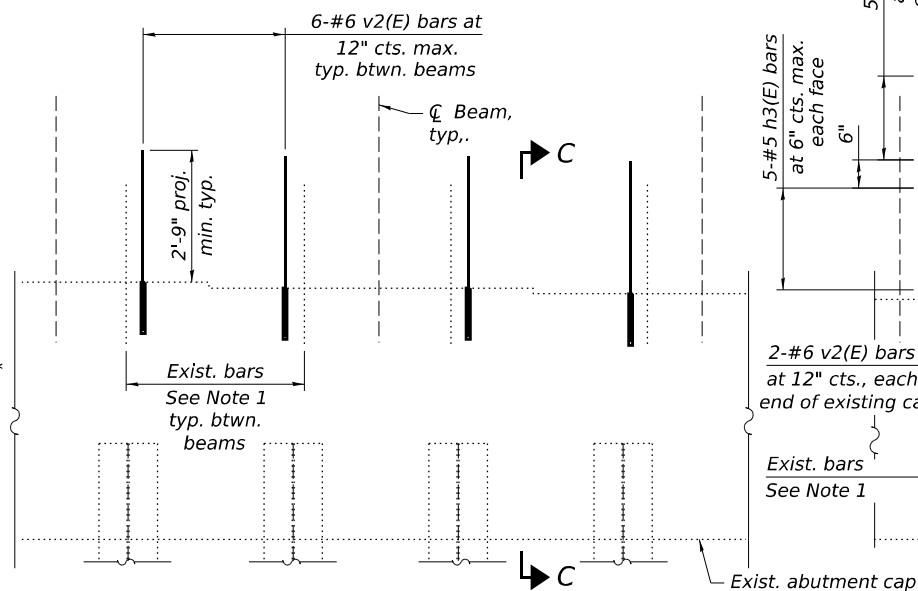
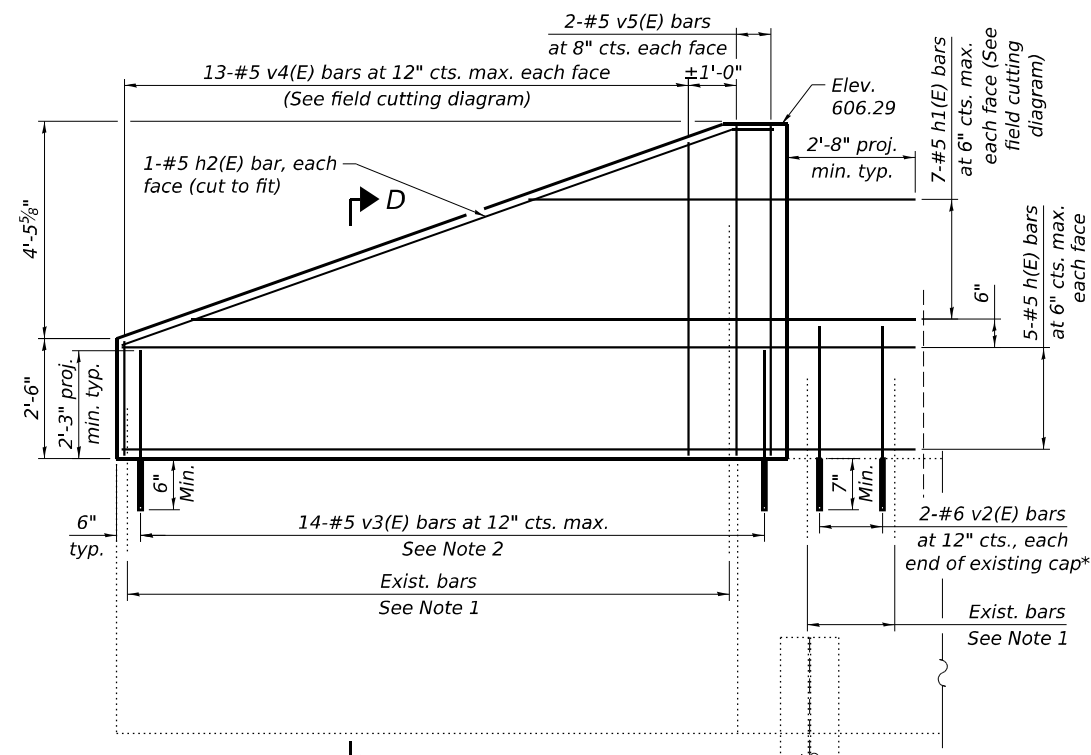
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PLOT SCALE = NTS	CHECKED - TJA	REVISED -
PLOT DATE = 6/26/2023	DRAWN - TJJ	REVISED -
	CHECKED - TJA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

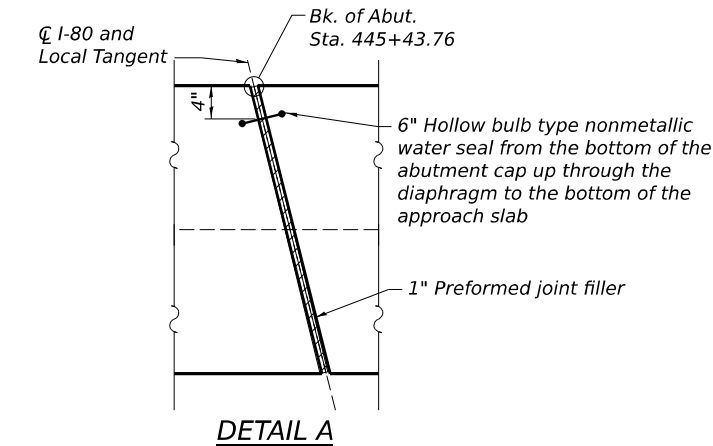
**WEST ABUTMENT PLAN AND ELEVATION
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)**

SHEET S1-38 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	549
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

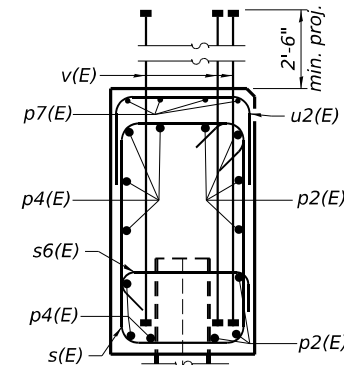


- Notes:
- Existing reinforcement shall be cleaned and incorporated into new construction as noted in these plans. As directed by the Engineer, any reinforcement called out for re-use that is damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 - Drill and grout bars according to Article 584 of the Standard Specifications with a minimum embedment of 6 inches for #5 bars and 7 inches for #6 bars.
 - For details of abutment diaphragms, see sheet S1-21 of S1-47.



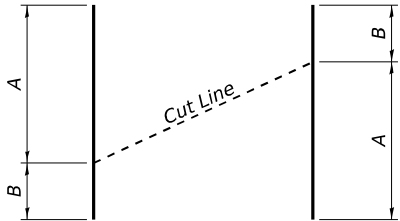
Beam	Elev.	Step T (in)
A	600.76	2"
B	600.93	2"
C	601.10	2 1/8"
D	601.28	NA
E	599.28	2"
F	599.45	2"
G	599.62	2"
H	599.79	2"

Type: HP14x73 with pile shoes
Nominal Required Bearing: 578 kips
Allowable Resistance Available: 193 kips
Est. Length: 33 feet
No. Production Piles: 13
No. Test Piles: 1



- Notes:**
1. All costs associated with preformed joint filler and nonmetallic water seal shall be included in the price bid for Concrete Structures.
 2. Nonmetallic water seal shall be per Article 1054 of the Standard Specifications.
 3. Drill and grout bars as shown according to Article 584 of the Standard Specifications, all costs included with Concrete Structures.
 4. Pour steps monolithically with cap.
 5. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
 6. For details of piles see sheet S1-43 of S1-47.
 7. Drill and grout bars according to Article 584 of the Standard Specifications with a minimum embedment of 7 inches for #6 bars. See Section E-E on sheet S1-39 of S1-47.

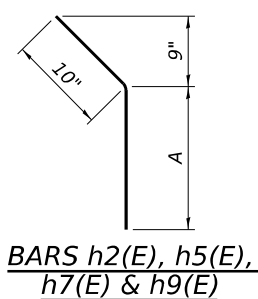
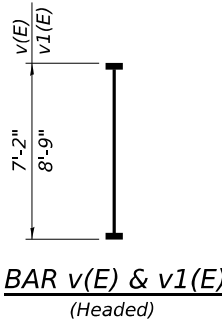
MODEL: Drawing View
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302/0990301-62R27-042-AbutmentBarDetailsBOM.dgn



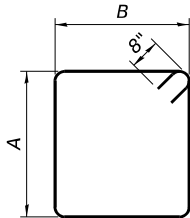
FIELD CUTTING DIAGRAM

Order bars full length, cut as shown, and use remainder of bars in opposite face as indicated in these plans.

Bar	A	B
h1(E)	14'-11"	7'-10"
h4(E)	13'-3"	7'-11"
h10(E)	14'-6"	8'-6"
h11(E)	15'-0"	7'-3"
v4(E)	9'-3"	4'-11"
v6(E)	8'-6"	4'-11"
v8(E)	5'-10"	2'-3"
v10(E)	6'-8"	2'-3"

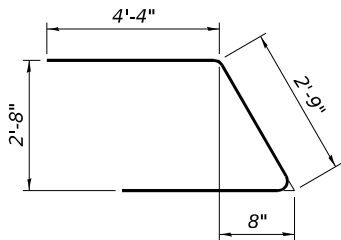


Bar	A
h2(E)	13'-4"
h5(E)	11'-3"
h7(E)	11'-10"
h9(E)	12'-2"

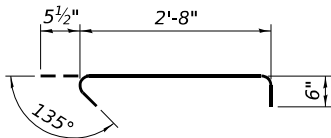


BARS s(E), s1(E), s3(E) & s5(E)

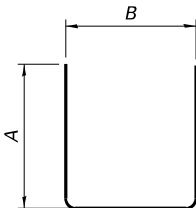
Bar	A	B
s(E)	4'-10"	2'-8"
s1(E)	6'-4"	2'-8"
s3(E)	4'-10"	2'-9"
s5(E)	6'-4"	2'-9"



BAR u1(E)



BAR s6(E)



BARS u(E), u2(E), s2(E) & s4(E)

Bar	A	B
u(E)	4'-4"	2'-8"
u2(E)	1'-10"	2'-8"
s2(E)	2'-9"	4'-10"
s4(E)	2'-9"	6'-4"

S.N. 099-0302 (WESTBOUND)

**WEST ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h3(E)	10	#5	14'-6"	=====
h4(E)	5	#5	21'-2"	=====
h5(E)	2	#5	11'-11"	=====
h12(E)	12	#6	3'-4"	=====
p2(E)	8	#7	23'-6"	=====
p4(E)	8	#7	24'-3"	=====
p5(E)	4	#4	12'-4"	=====
s1(E)	20	#6	19'-4"	=====
s4(E)	1	#6	11'-10"	=====
s5(E)	1	#6	19'-6"	=====
s6(E)	14	#5	3'-8"	=====
u(E)	7	#6	11'-4"	=====
u1(E)	7	#6	11'-5"	=====
u2(E)	13	#4	6'-4"	=====
v1(E)	63	#8	8'-9"	=====
v2(E)	40	#6	3'-4"	=====
v3(E)	12	#5	2'-9"	=====
v6(E)	11	#5	8'-1"	=====
v7(E)	4	#5	5'-10"	=====
Structure Excavation	Cu. Yd.	174.2		
Concrete Structures	Cu. Yd.	20.9		
Reinforcement Bars, Epoxy Coated	Pound	3,960		
Furnishing - Piles, HP14x73	Foot	246		
Driving Piles	Foot	246		
Test Pile, HP14x73	Each	1		
Pile Shoes	Each	7		

S.N. 099-0301 (EASTBOUND)

**WEST ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	10	#5	16'-4"	=====
h1(E)	7	#5	22'-9"	=====
h2(E)	2	#5	14'-0"	=====
h10(E)	12	#6	3'-4"	=====
p(E)	7	#7	24'-0"	=====
p1(E)	7	#7	24'-9"	=====
p3(E)	4	#4	11'-8"	=====
s(E)	21	#6	16'-4"	=====
s2(E)	1	#6	10'-4"	=====
s3(E)	1	#6	16'-6"	=====
s6(E)	14	#5	3'-8"	=====
u(E)	6	#6	11'-4"	=====
u1(E)	6	#6	11'-5"	=====
u2(E)	13	#4	6'-4"	=====
v(E)	65	#8	7'-2"	=====
v2(E)	40	#6	3'-4"	=====
v3(E)	14	#5	2'-9"	=====
v4(E)	13	#5	8'-10"	=====
v5(E)	4	#5	6'-8"	=====
Structure Excavation	Cu. Yd.	175.6		
Concrete Structures	Cu. Yd.	17.6		
Reinforcement Bars, Epoxy Coated	Pound	3,660		
Furnishing - Piles, HP14x73	Foot	287		
Driving Piles	Foot	287		
Pile Shoes	Each	7		

S.N. 099-0302 (WESTBOUND)

**EAST ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h6(E)	10	#5	15'-2"	=====
h7(E)	2	#5	12'-6"	=====
h10(E)	5	#5	23'-0"	=====
h12(E)	12	#6	3'-4"	=====
p(E)	8	#7	24'-0"	=====
p1(E)	8	#7	24'-9"	=====
p6(E)	4	#4	12'-10"	=====
s1(E)	21	#6	19'-4"	=====
s4(E)	1	#6	11'-10"	=====
s5(E)	1	#6	19'-6"	=====
s6(E)	14	#5	3'-8"	=====
u(E)	7	#6	11'-4"	=====
u1(E)	7	#6	11'-5"	=====
u2(E)	12	#4	6'-4"	=====
v1(E)	65	#8	8'-9"	=====
v2(E)	40	#6	3'-4"	=====
v3(E)	13	#5	2'-9"	=====
v7(E)	4	#5	5'-10"	=====
v8(E)	12	#5	8'-1"	=====
Structure Excavation	Cu. Yd.	175.2		
Concrete Structures	Cu. Yd.	21.4		
Reinforcement Bars, Epoxy Coated	Pound	4,080		
Furnishing - Piles, HP14x73	Foot	231		
Driving Piles	Foot	231		
Pile Shoes	Each	7		

S.N. 099-0301 (EASTBOUND)

**EAST ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h8(E)	10	#5	15'-6"	=====
h9(E)	2	#5	12'-10"	=====
h11(E)	7	#5	22'-3"	=====
h12(E)	12	#6	3'-4"	=====
p2(E)	7	#7	23'-6"	=====
p4(E)	7	#7	24'-3"	=====
p7(E)	4	#4	11'-6"	=====
s(E)	20	#6	16'-4"	=====
s2(E)	1	#6	10'-4"	=====
s3(E)	1	#6	16'-6"	=====
s6(E)	14	#5	3'-8"	=====
u(E)	6	#6	11'-4"	=====
u1(E)	6	#6	11'-5"	=====
u2(E)	13	#4	6'-4"	=====
v(E)	63	#8	7'-2"	=====
v2(E)	40	#6	3'-4"	=====
v3(E)	12	#5	2'-9"	=====
v9(E)	4	#5	6'-9"	=====
v10(E)	12	#5	8'-11"	=====
Structure Excavation	Cu. Yd.	174.6		
Concrete Structures	Cu. Yd.	17.3		
Reinforcement Bars, Epoxy Coated	Pound	3,550		
Furnishing - Piles, HP14x73	Foot	198		
Driving Piles	Foot	198		
Test Pile, HP14x73	Each	1		
Pile Shoes	Each	7		

TRANSYSTEMS

USER NAME = tjallen	DESIGNED - TJJ	REVISED -
	CHECKED - TJA	REVISED -
PLOT SCALE = NTS	DRAWN - TJJ	REVISED -
PLOT DATE = 6/26/2023	CHECKED - TJA	REVISED -

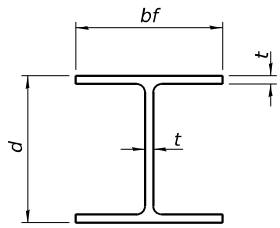
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT BAR DETAILS AND BILL OF MATERIAL
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)**

SHEET 51-42 OF 51-47 SHEETS

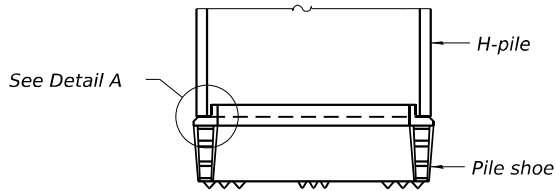
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	553
ILLINOIS FED. AID PROJECT				

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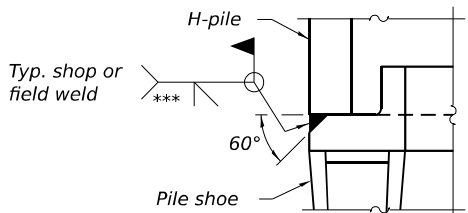


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14¼"	14⅞"	1⅜"	30"
x102	14"	14¾"	1⅛"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	1⅛"	24"
x74	12⅛"	12¼"	⅝"	24"
x63	12"	12⅝"	½"	24"
x53	11¾"	12"	⅞"	24"
HP 10x57	10"	10¼"	⅞"	24"
x42	9¾"	10⅞"	⅞"	24"
HP 8x36	8"	8⅝"	⅞"	18"

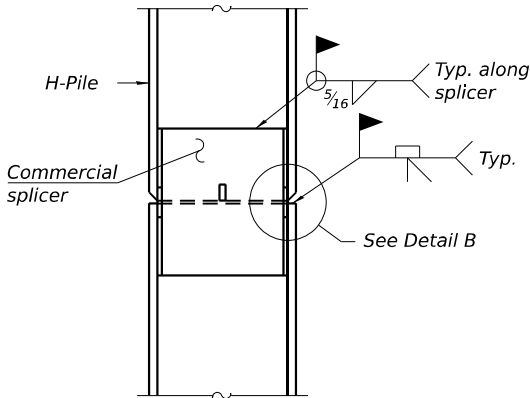


ELEVATION

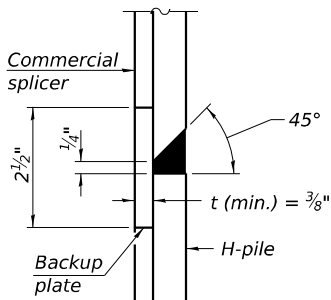


SHOE ATTACHMENT

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

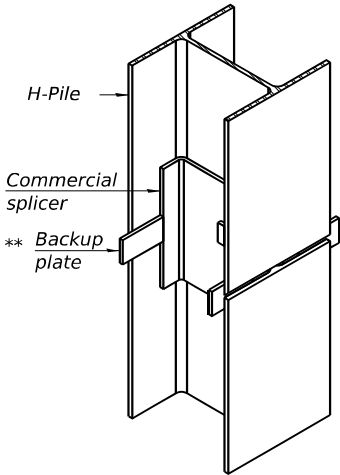


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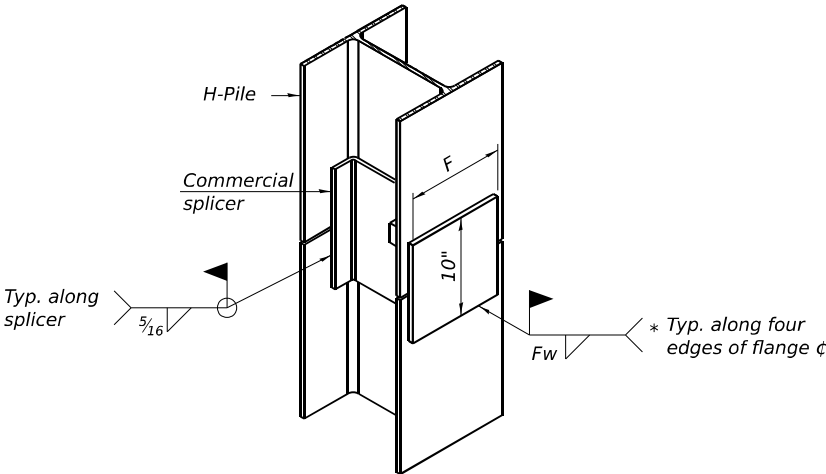


DETAIL "B"

WELDED COMMERCIAL SPLICE



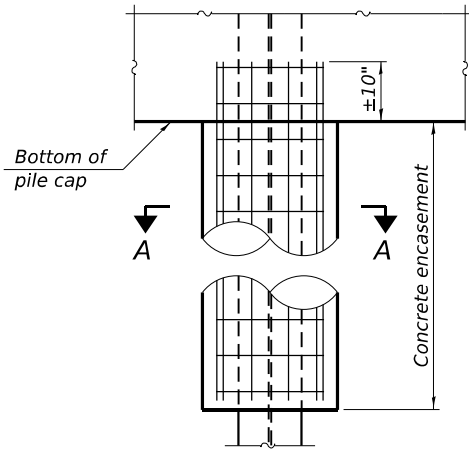
ISOMETRIC VIEW



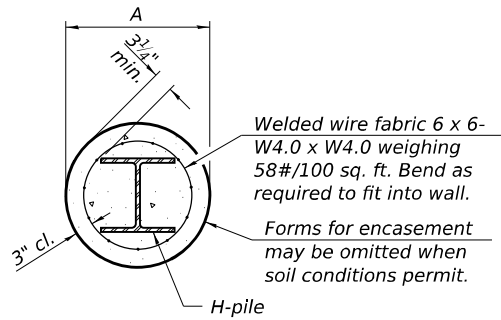
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds ¼" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (⅝" min.).

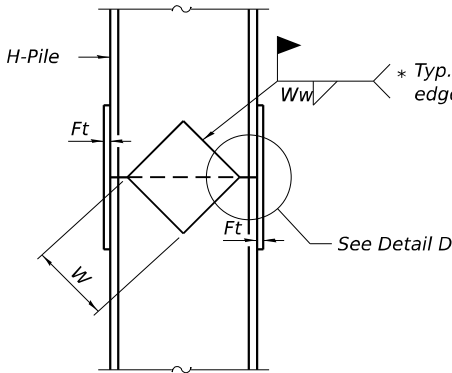


ELEVATION

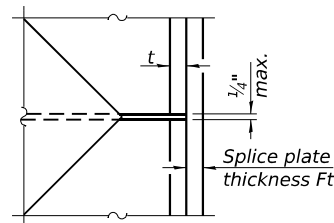


SECTION A-A

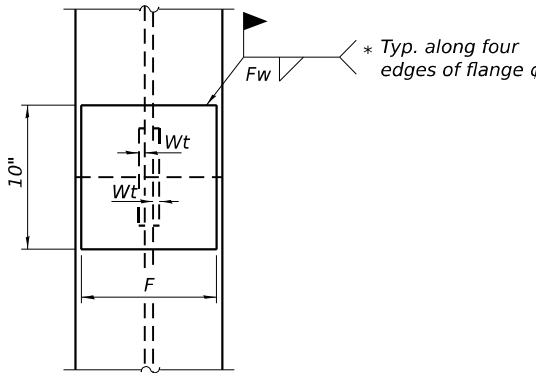
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(when specified)



ELEVATION



DETAIL D



END VIEW

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	1⅛"	7¾"	⅝"	½"
x73	12½"	⅝"	⅞"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	1⅛"	6½"	⅝"	½"
x74	10"	⅞"	1⅛"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅝"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	⅞"	5¼"	½"	⅜"
x42	8"	⅝"	⅞"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	⅞"	4¼"	½"	⅜"

WELDED PLATE FIELD SPLICE

F-HP

1-1-2020

TRANSYSTEMS

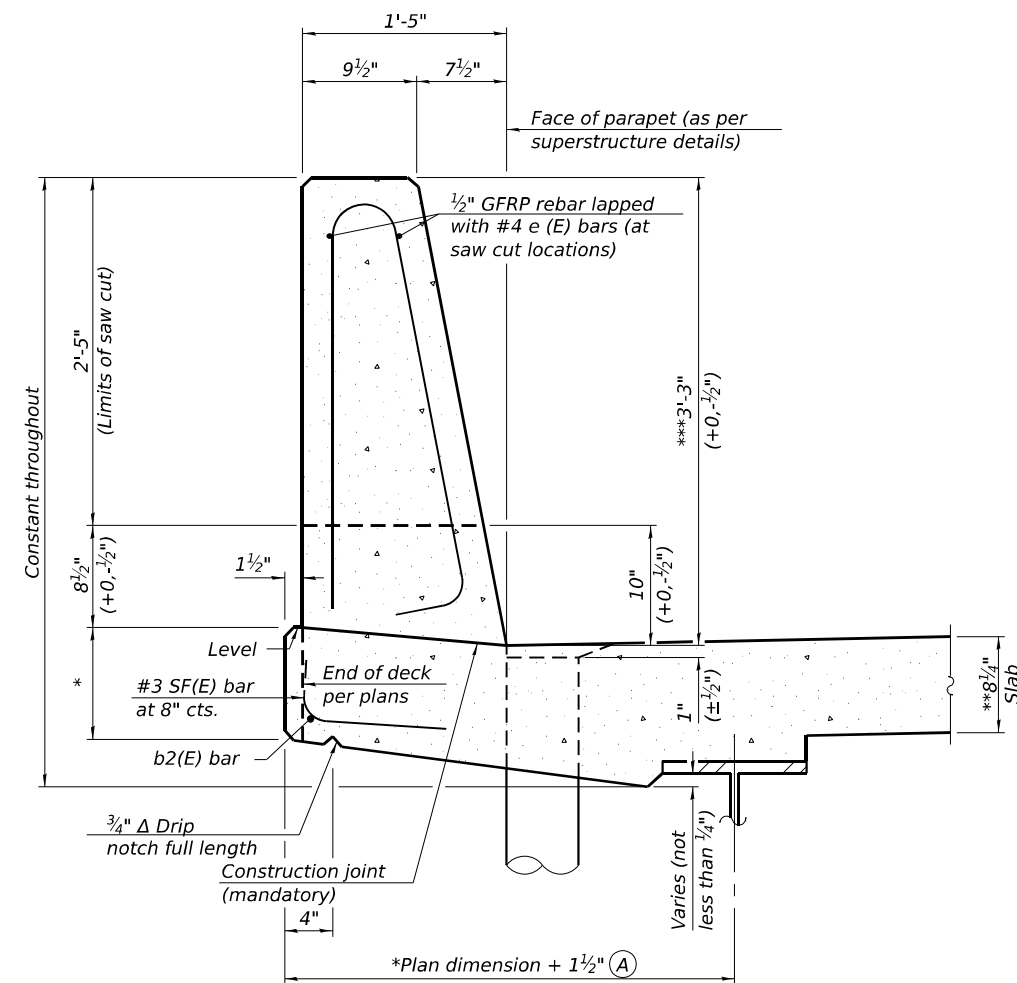
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		CHECKED -	AMD	REVISED -	
PLOT SCALE =	NTS	DRAWN -	CMD	REVISED -	
PLOT DATE =	6/23/2023	CHECKED -	AMD	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DETAILS
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)

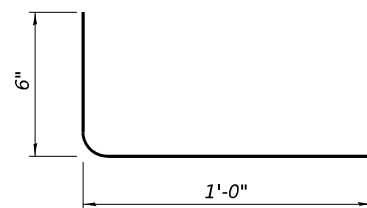
SHEET S1-43 OF S1-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	554
CONTRACT NO. 62R27				
ILLINOIS FED. AND PROJECT				

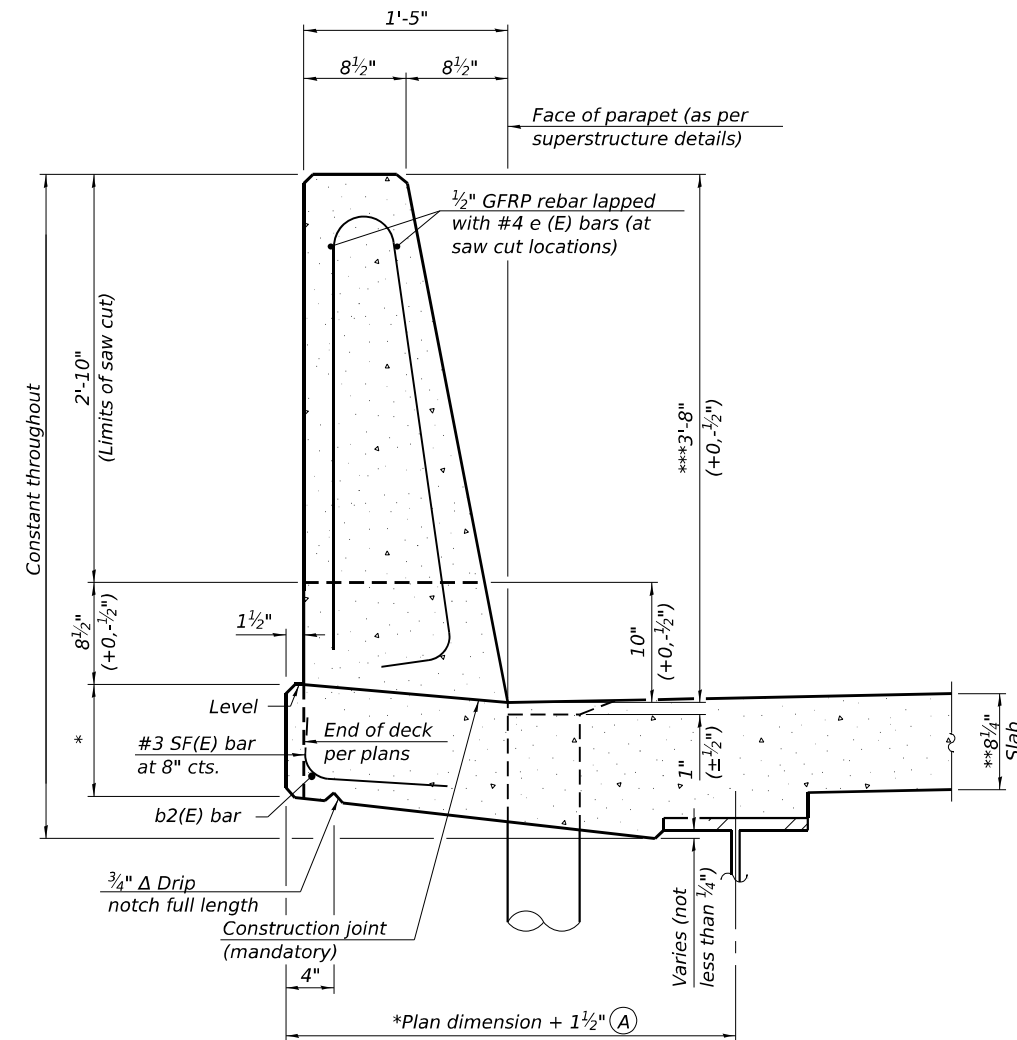


39" CONSTANT-SLOPE
PARAPET SECTION

(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

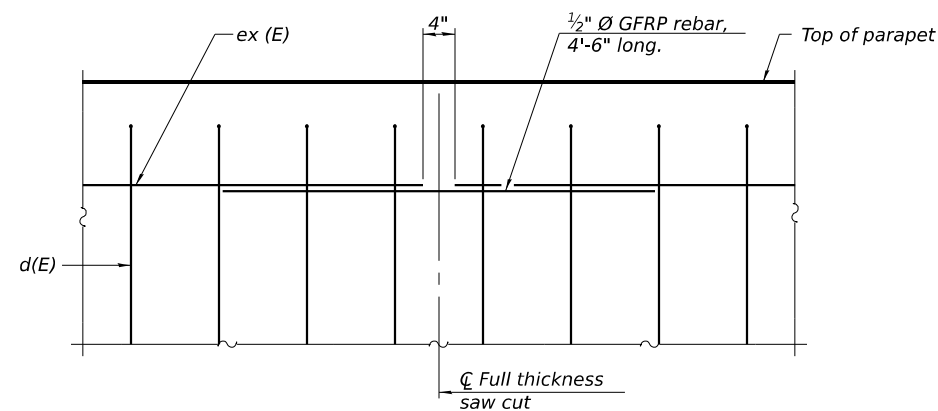


SF(E) BAR



44" CONSTANT-SLOPE
PARAPET SECTION

(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

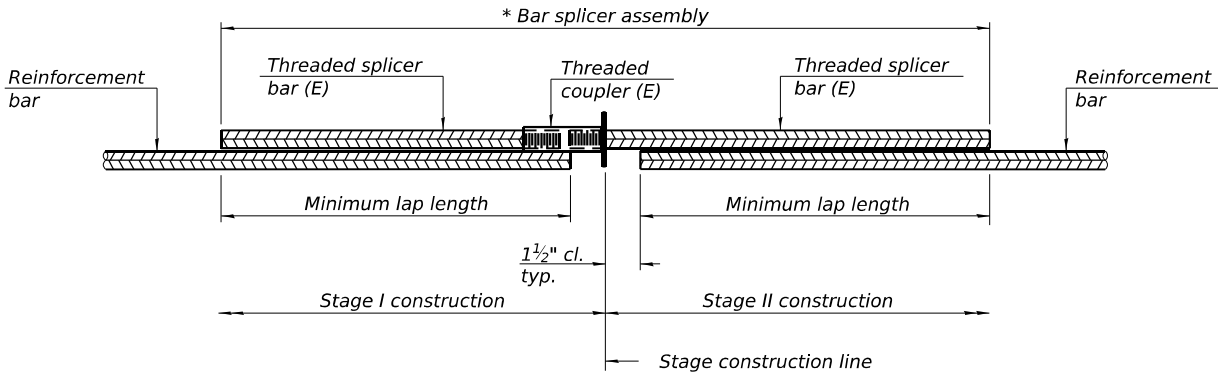


GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section
at each parapet joint location.)

Notes:
All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.
Place full depth aluminum sheets as shown on superstructure details.
Replace all cork joint filler locations with a full thickness saw cut.
Steel superstructure shown. Other superstructure types similar.
** See Superstructure Details*
*** Prior to Grinding*
**** After Grinding*
Slipforming of the interior parapets is not allowed.

MODEL: Untitled.dgn
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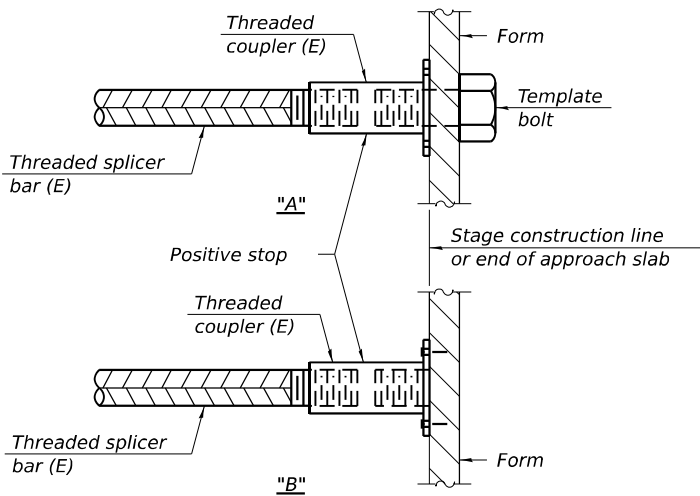


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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
Westbound Deck	#5	950	3'-8"
Easbound Deck	#5	950	3'-8"
Westbound Diaphragm	#6	32	3'-8"
Easbound Diaphragm	#6	32	3'-8"
Westbound Approach Slab	#5	172	3'-6"
Westbound Approach Slab	#8	122	4'-9"
Eastbound Approach Slab	#5	172	3'-6"
Eastbound Approach Slab	#8	122	4'-9"

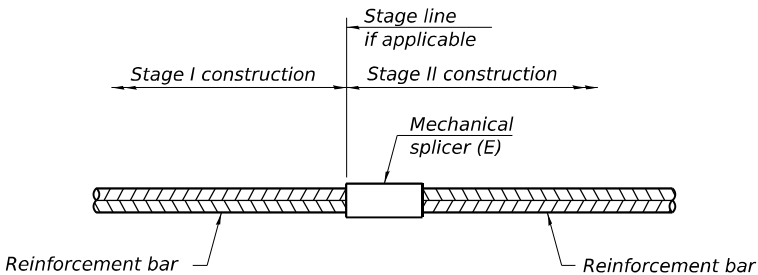


INSTALLATION AND SETTING METHODS

"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
W. Diaphragm WB	#6	12
W. Diaphragm EB	#6	12
E. Diaphragm WB	#6	12
E. Diaphragm EB	#6	12

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

1-1-2020

TRANSYSTEMS

USER NAME = amkluver	DESIGNED - ESS	REVISED -
	CHECKED - TJA	REVISED -
PLOT SCALE = NTS	DRAWN - CMD	REVISED -
PLOT DATE = 6/23/2023	CHECKED - TJA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER AND MECHANICAL SPLICER ASSEMBLY DETAILS
STRUCTURE NOS. 099-0301 (EB) & 099-0302 (WB)**

SHEET 51-45 OF 51-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	556
			CONTRACT NO. 62R27	
		ILLINOIS	FED. AID PROJECT	

WANGENIC 78011501.GPJ WANGENIC.DDT 1/25/21

Wang Engineering
wangeng@wangenic.com
1145 N. Main Street
Lombard/IL 60140
Telephone: 6309539928
Fax: 6309539938

BORING LOG HR-BSS-01

WEI Job No.: 7901-15-01

Client **TranSystems Corporation**
Project **#80 Reconstruction (Houbolt Road to Center Street)**
Location **Will County, Illinois**

Date: NAVD 88
Elevation: 604.87 ft
North: 1757424.96 ft
East: 1029622.93 ft
Station: 443+55.59
Offset: 25.83 LT

Page 1 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values	Qu (tsf)	Moisture Content (%)	Profile	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values	Qu (tsf)	Moisture Content (%)
					(blows/f t)									(blows/f t)		
603.6	15-inch thick CONCRETE -PAVEMENT-								604.4	Hard, brown SILTY CLAY; trace gravel; damp						
603.1	Gray SANDY GRAVEL -AGGREGATE BASE- Stiff to hard, brown SILTY CLAY LOAM to SILTY CLAY, trace to some gravel; damp		X	1	6 8 4	1.00 P	19		581.9	Medium dense, gray SANDY GRAVEL; moist		X	9	9 12 18	5.50 B	21
	-FILL- -RDR 2--	5	X	2	6 5 9	2.05 B	19		580.5	Medium dense, brown, medium SAND; damp		X	10	15 11 10		NP 10
			X	3	6 12 19	4.10 B	20					X	11	7 9 8		NP 14
	-some gravel-	10	X	4	7 10 22	5.30 NP	6		676.8	Medium dense to very dense, brown SANDY GRAVEL; saturated		X	12	29 35 35		NP 11
			X	5	4 9 13	5.33 B	21					X	13	14 11 14		NP 9
	-L _t (%)=42, P(%)=16- -%Gravel=0.0- -%Sand=17.2- -%Silt=57.2- -%Clay=25.6- -A-A'-6 (21)-	15	X	6	7 6 8	4.02 B	25					X	14	29 25 24	2.46 S	9
586.9	Medium dense, brown, medium SAND; wet		X	7	3 4 3	2.87 B	24		565.1	Dense to very dense, gray SILTY LOAM, trace to some gravel; damp		X	15			
	-lost drilling mud-		X	8	6 5 7		21					X	16			
		20	X									X				

GENERAL NOTES

Begin Drilling **04-21-2021** Complete Drilling **04-21-2021**
Drilling Contractor **Wang Testing Services, Inc.** Drill Rig **20CME55T181J**
Driller **R&J** Logger **I. Nenn** Checked by **C. Marin**
Drilling Method **2.25" IDA HSA to 10.ft.; mud rotary thereafter; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **28.50 ft**
At Completion of Drilling **mud in borehole**
Time After Drilling **NA**
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be more gradual.

Wang Engineering

wangeng@wangeng.com
1145 N. Main Street
Lombard IL 60148
Telephone: 6309539928
Fax: 6309539938

BORING LOG HR-BSB-01

WEI Job No.: 7901-15-01

Date: NAVD 88
Elevation: 604.87 ft
North: 1757424.96 ft
East: 1029622.93 ft
Station: 443+55.59
Offset: 25.83 LT

Client **TransSystems Corporation**
Project: **B80 Reconstruction (Houbolt Road to Center Street)**
Location **Will County, Illinois**

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth Sample Type (feet)	Sample No.	SPT Values (blows ft)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth Sample Type (feet)	Sample No.	SPT Values (blows ft)	Qu (tsf)	Moisture Content (%)
	558.9	Weathered Bedrock		16	44	NP	8		541.9	Boring terminated at 63.00 ft	17				
	556.9	Moderate, light grayish gray, very poor quality, intensely to moderately fractured DOLOSTONE, gouge area; very closely spaced, highly weathered, horizontal, oblique, and vertical joints, with <0.05 inch opening, slightly rough to rough walls, and 0 - 0.2 inch thick clay infill.		16	50/3										
		-RUN 1: 48.0 to 58.0 feet-- -Recovery= 100%-- -RQD= 18%--													
		-RUN 2: 58.0 to 63.0 feet-- -Recovery= 100%-- -RQD= 21%--													

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-21-2021** Complete Drilling **04-21-2021**
Drilling Contractor **Wang Testing Services** Drill Rig **20CME55T181%**
Driller **R&J** Logger **I. Nenn** Checked by **C. Marin**
Drilling Method **2.25" IDA HSA to 10. ft; mud rotary thereafter; boring backfilled upon completion**

While Drilling **28.50 ft**
At Completion of Drilling **7' mud in borehole**
Time After Drilling **NA**
Depth to Water **NA**
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 79011501.BPJ WANGENG.DDT 12/2/21



wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630.953.9928
 Fax: 630.953.9938

BORING LOG HR-BSB-01A

WEI Job No.: 7901-15-01
TransSystems Corporation
Project: 80 Reconstruction (Houbolt Road to Center Street)
Location: Will County, Illinois

Datum: NAVD 88
 Elevation: 602.35 ft
 North: 1757413.35 ft
 East: 1029652.28 ft
 Station: 443+67.05
 Offset: 3.59 RT

SOIL AND ROCK DESCRIPTION

Profile	Elevation (ft)	Soil and Rock Description	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
1	600.9	Stiff, dark brown SILTY CLAY LOAM	0	--TOPSOIL--	1	9 9 9	1.00	16
		--FILL--	2		7 6 7	1.00	15	
			3		8 10 8	0.50	21	
			4		7 4 5	2.95	19	
			5		2 2 2	1.80	20	
			6		3 3 6	0.57	19	
			7		10 13 4	3.44	26	
			8		4 4 6	1.64	23	
			9		3 2 2	NP	14	
			10		2 2 5	NP	10	
2	598.9	Brown, coarse SANDY GRAVEL; damp	0	--FILL--	11	5 5 8		
		--RDR 2--	12		6 2 6			
			13		7 5 13			
			14		20			
			15					
			16					
			17					
			18					
			19					
			20					
3	597.2	Medium stiff to very stiff, brown and gray SILTY CLAY LOAM to CLAY LOAM, trace to little gravel and asphalt; damp	0	--FILL--	12	6 2 6		
		--RDR 2--	13		7 5 13			
			14		20			
			15					
			16					
			17					
			18					
			19					
			20					
			21					
22								
4	594.9	Medium stiff, black SILTY CLAY LOAM, trace gravel; moist	0	--FILL--	12	6 2 6		
		--RDR 2--	13		7 5 13			
			14		20			
			15					
			16					
			17					
			18					
			19					
			20					
			21					
22								
5	590.6	Medium dense, brown, Gravelly coarse SAND; moist	0	--FILL--	12	6 2 6		
		--RDR 2--	13		7 5 13			
			14		20			
			15					
			16					
			17					
			18					
			19					
			20					
			21					
22								
6	589.2	Stiff to very stiff, brown and gray SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp	0	--RDR 2--	12	6 2 6		
			13		7 5 13			
			14		20			
			15					
			16					
			17					
			18					
			19					
			20					
			21					
22								
7	586.3	Loose to medium dense, brown, medium SAND, trace gravel; damp	0	--RDR 2--	12	6 2 6		
			13		7 5 13			
			14		20			
			15					
			16					
			17					
			18					
			19					
			20					
			21					
22								

SOIL AND ROCK DESCRIPTION

Profile	Elevation (ft)	Soil and Rock Description	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
1	578.6	Dense, brown Gravelly SAND; damp	0	--RDR 2--	11	5 5 8		
			12		6 2 6			
			13		7 5 13			
			14		20			
			15					
			16					
			17					
			18					
			19					

		BORING LOG HR-BSS-02				Date: NAVD 88 Elevation: 605.66 ft North: 1757599.41 ft East: 1029781.34 ft Station: 445+91.58 Offset: 25.85 LT	
wangeng@wangeng.com 1145 N. Main Street Lombard, IL 60140 Telephone: 6309539928 Fax: 6309539938		WEI Job No.: 7901-15-01 TransSystems Corporation Project: I-80 Reconstruction (Houbolt Road to Center Street) Location: Will County, Illinois					

SOIL AND ROCK DESCRIPTION		Depth (ft)	Sample Type	Sample No.	SPT Values (blows ft)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION		Depth (ft)	Sample Type	Sample No.	SPT Values (blows ft)	Qu (tsf)	Moisture Content (%)
15-inch thick CONCRETE --PAVEMENT--		0-4.2								15-inch thick CONCRETE --PAVEMENT--		0-4.2					
Medium dense, gray SANDY GRAVEL; damp		4.2-6.2		1	9 8 4	NP	5			Medium dense, gray SANDY GRAVEL; damp		4.2-6.2		9	6 8 8	3.36 B	20
--AGGREGATE BASE--		6.2-8.2		2	3 3 7	1.72 B	20			Medium stiff to very stiff, brown, gray and black SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp		8.2-10.2		10	6 6 10	4.26 B	21
--FILL-- --RDR 2-3--		10.2-15.2		3	4 8 9	0.82 B	20		580.2	Dense to very dense, brown and gray SANDY GRAVEL; wet to saturated		10.2-15.2		11	20 22 40	NP	11
--RDR 2-3--		15.2-20.2		4	3 3 6	1.23 B	19			--rig chatter, possible cobbles-- --cave-in--		15.2-20.2		12	12 29 52	NP	10
Stiff to hard, brown and gray SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp		20.2-25.2		5	4 5 15	3.77 B	22			Very dense, gray SILTY LOAM, some gravel; damp		20.2-25.2		13	36 42 42	NP	12
--RDR 2--		25.2-30.2		6	9 10 8	1.25 P	24		568.9	--RDR 3-4--		25.2-30.2		14	23 27 32	NP	9
--RDR 2--		30.2-40.2		7	6 7 9	3.36 B	25			--RDR 3-4--		30.2-40.2		14	23 27 32	NP	9
--RDR 2--		40.2-50.2		8	2 3 6	1.23 B	23			--RDR 3-4--		40.2-50.2		14	23 27 32	NP	9

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling: 04-21-2021 Complete Drilling: 04-21-2021 Drilling Contractor: Wang Testing Services, Drill Rig: 20D50T [80%] Driller: R.J. Logger: M. Sadowski Checked by: C. Marin Drilling Method: 2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion				While Drilling: 25.50 ft At Completion of Drilling: mud in borehole Time After Drilling: NA Depth to Water: NA			
The stratification lines represent the approximate boundary between soil types; the actual transition may be more gradual.							

WANG ENGINEERING

Page 2 of 3

wangeng@wangeng.com
 1145 N. Main Street
 Lombard IL 60148
 Telephone: 6309539928
 Fax: 6309539938

BORING LOG HR-BSS-02
 WEI Job No.: 7901-15-01
 Client: **TransSystems Corporation**
 Project: **80 Reconstruction (Houbolt Road to Center Street)**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 605.66 ft
 North: 1757599.41 ft
 East: 1029781.34 ft
 Station: 445+91.58
 Offset: 25.85 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth Sample Type recovery	Sample No.	SPT Values (blows/n)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth Sample Type recovery	Sample No.	SPT Values (blows/n)	Qu (tsf)	Moisture
	559.7	Weathered Bedrock		16	28	NP	11		542.7	Boring terminated at 63.00 ft		17			
	557.7	Strong, light grayish gray, very poor quality, moderately fractured DOLOSTONE, closely spaced, moderately weathered, horizontal, oblique, and vertical joints, with 0-0.2 inch opening, slightly rough walls, and ~0.2 inch thick clay infill.													
		-RUN 1: 48.0 to 58.0 feet-- -Recovery= 100%-- -RQD= 7%-- -Q _a = 10,795 psi-													
		-RUN 2: 58.0 to 63.0 feet-- -Recovery= 100%-- -RQD= 7%--													

GENERAL NOTES

Begin Drilling 04-21-2021 Complete Drilling 04-21-2021
 Drilling Contractor Wang Testing Services, Drill Rig 20D50T [80%]
 Driller R&J Logger M. Sadowski Checked by C. Marin
 Drilling Method 2.25" IDA HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion

WATER LEVEL DATA

While Drilling 25.50 ft
 At Completion of Drilling mud in borehole
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual

WANGENG 79011501.DWG WANGENG.GDT 12/3/21



Wang Engineering
 wangeng@wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630.953.9928
 Fax: 630.953.9938

BORING LOG HR-BSB-02A

WEI Job No.: 7901-15-01
 TransSystems Corporation
 Project: **80 Reconstruction (Houbolt Road to Center Street)**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 602.76 ft
 North: 1757567.75 ft
 East: 1029793.73 ft
 Station: 445+76.41
 Offset: 4.57 RT

SOIL AND ROCK DESCRIPTION

Profile Elevation (ft)	Soil and Rock Description	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
591.3	Very stiff, brown SILTY CLAY LOAM, trace gravel; damp --TOPSOIL--	1		4	2.00 P	14	
		7		9			
		9		12			
	Medium stiff to stiff, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--	2		6	1.72 B	17	
		6		4			
		4		5			
		3		3	1.23 B	19	
		4		4			
		5		5			
		4		4	1.00 P	18	
		7		7			
584.9	ASPHALT fragments	6		3	0.57 B	16	
593.3				33			
	Dense, brown Gravelly LOAM; moist --FILL-- --RDR 2--	10		50(2)			
		6		11	NP	7	
		20		20			
		12		12			
591.0	Stiff, brown SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--	7		4	1.50 P	25	
		6		6			
589.3	Very stiff, brown SILTY CLAY; damp --RDR 2--	15		4	3.28 B	21	
		5		7			
		8		8			
		9		6	2.06 B	23	
		10		8			
		10		9	3.28 B	19	
		13		13			
		20					

SOIL AND ROCK DESCRIPTION

Profile Elevation (ft)	Soil and Rock Description	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
581.8	Dense to very dense, brown, medium to coarse SAND, little gravel; damp --RDR 2--	11		7			
		18		18			
		19		19			
		21		21			
		17		17			
		22		22			
		28		28			
		29		29			
		18		18			
		24		24			
		30		30			
		31		31			
576.8	Boring terminated at 26.00 ft						
		25		13			
		30					
		35					
		40					

GENERAL NOTES

Begin Drilling 05-05-2021 Complete Drilling 05-05-2021
 Drilling Contractor Wang Testing Services Drill Rig 20D25A [83%]
 Driller J&M Logger I. Nenn Checked by C. Marin
 Drilling Method 2.25" IDA HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling DRY
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG 2001-01-01 (20) WANGENG.GDT 12/21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

FAU ROUTE 0325 (HOUBOLT
ROAD) AT FAI ROUTE 80

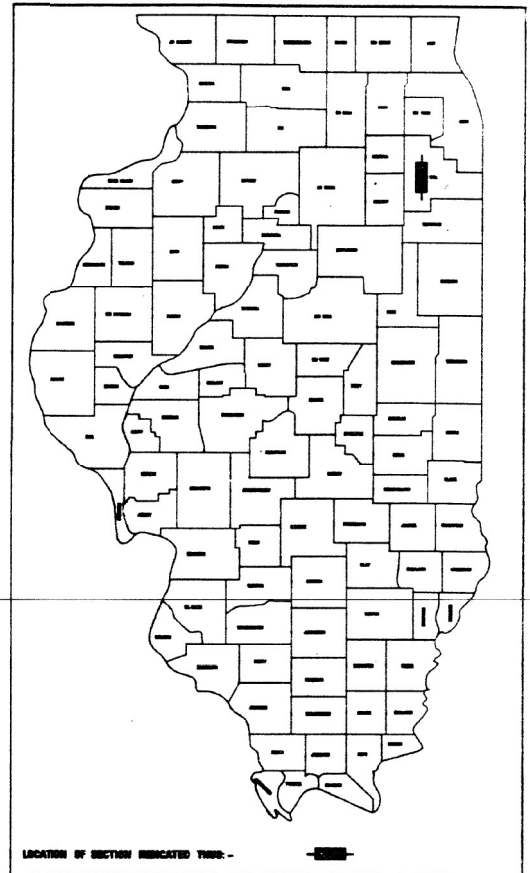
PHASE II

SECTION: 99-2(K & HB-1-R)
JOLIET JUNIOR COLLEGE TO U.S. ROUTE 6
NEW INTERCHANGE, PAVEMENT RECONSTRUCTION
AND TRAFFIC SIGNALS

PROJECT: HDP-9105(001)

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	99-2(K & HB-1-R)	WILL	898	559
CONTRACT NO. 62R27				

D-91-362-89

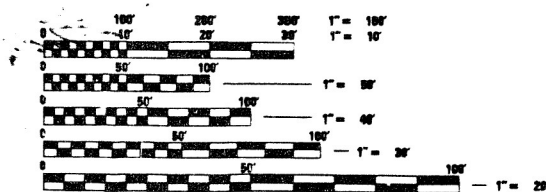


FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT
LOCATED IN THE
CITY OF JOLIET
TROY TOWNSHIP

TRAFFIC DATA
I-80 ADT = 40,000
HOUBOLT ROAD ADT = 11,000

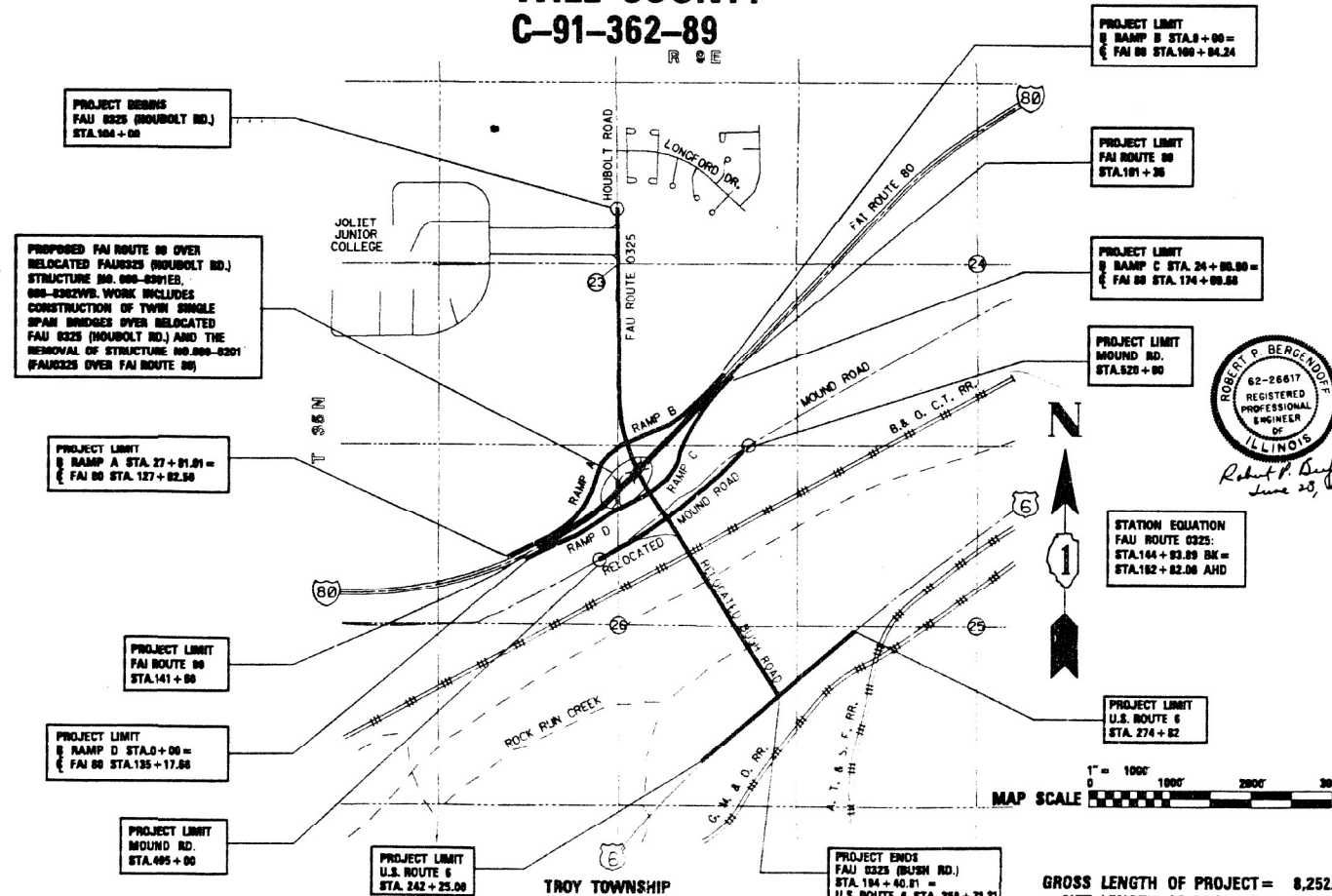
DESIGN DESIGNATION
I-80 4800(2005)
TRUNK 39.19(CRC-20)
HOUBOLT ROAD 1600(2005)
URBAN ARTERIAL 1.13(B-20)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED

CONTRACT NO. 80507

WILL COUNTY
C-91-362-89



Robert P. Bergendoff
June 20, 1992

STATION EQUATION
FAU ROUTE 0325:
STA. 144 + 83.89 BK =
STA. 182 + 82.00 AHD

MAP SCALE
1" = 100'
0 1000' 2000' 3000'

GROSS LENGTH OF PROJECT = 8,252.62 FT. = 1.56 MILES
NET LENGTH OF PROJECT = 8,252.62 FT. = 1.56 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: *June 20, 1992*
EXAMINED: *11*
PASSED: *July 1, 1992*
APPROVED: *Robert C. Williams*

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:
DATE:
SHEET NO.:

PRINTED BY THE AUTHORITY OF
THE STATE OF ILLINOIS

TRANSYSTEMS

USER NAME =	amkluver	DESIGNED -	REVISD -
PLOT SCALE =	NTS	CHECKED -	REVISED -
PLOT DATE =	6/23/2023	DRAWN -	REVISED -
		CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-01 OF SE1-48 SHEETS

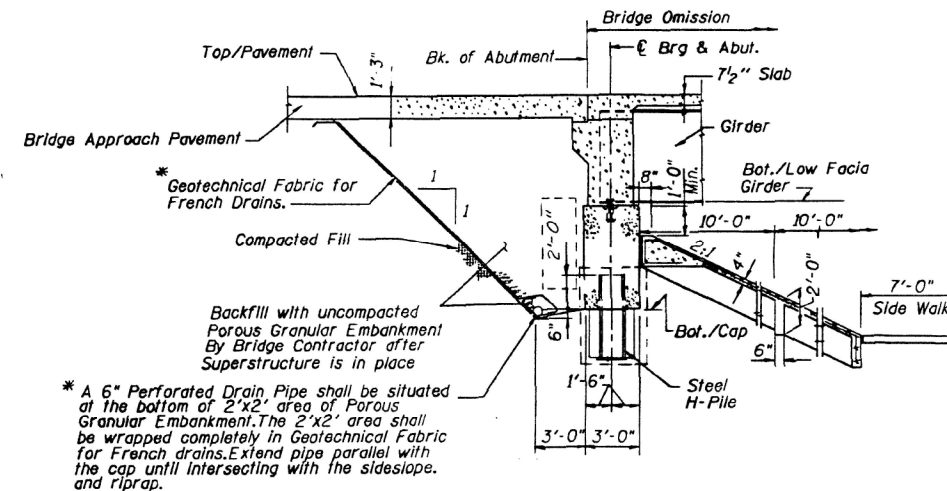
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	559
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

Illinois Division of Highways Survey
Tablet on top of Center Crash Wall of Pier 1
Existing Structure, NO. 099-0201 over FAI-80
Sta. 147+51.45 (FAI-80)
Elev.595.21

Traffic shall be Detoured

QUANTITY	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	2	WILL	286	155
STA.		TO STA.		
FED. ROAD DIST. NO.		BUILDING	FIDEL AND PROJECT	

Sheet S-1 of S-26



SECTION THRU ABUTMENT
AND SLOPE WALL
(@ Rt. L's)



FAI-80

PC Sta. 105+31.53
 PI Sta. 129+68.73
 PT Sta. 151+40.04 L=4608.51'
 $\Delta = 46^{\circ} - 06'12.5''$ T=2437.20'
 $D=01^{\circ} - 00' - 01''$ E=497.00'
 R=5727.30'

SE=.02'/Ft Sta. 150+71 to Sta. 153+02
 Transition - Sta. 149+86 to 150+71
 Sta. 153+02 to 154+72

FAU 0325

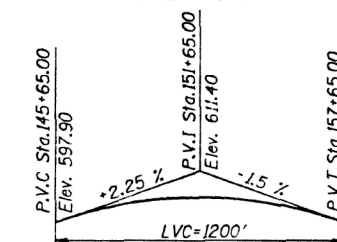
PC Sta. 135+07.84
PI Sta. 141+14.11
PT Sta. 144+93.84 Bk. = L=986.00'
Sta. 152+82.08 Ahd. T=506.27'
E=71.25'
 $\Delta=32^{\circ}-02'-42''$
 $D=03^{\circ}-15'-00''$
 $R=1762.95'$
 $SE=.03'/FI$ Sta. 135+85 to Sta. 144+17
Transition - Sta. 144+17 to 154+37

STATION 151+75.39
BUILT 1994 BY
STATE OF ILLINOIS
FAI RTE 80
PROJ. HDP-9105(201)
LOADING HS20
STR. NO. 099-0301 E.B.

NAME PLATE
See Std. 2113

STATION 151+97.44
BUILT 1993 E/
STATE OF ILLINOIS
FAI RTE 80
PROJ. HDP-9105(001)
LOADING HS20
STR. NO. 099-0302 W.B.

NAME PLATE
See Std. 2113



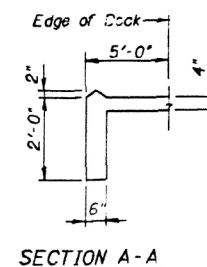
PROFILE GRADE
PROP. FAI-80 (E.B. & W.B.)
(Along & Roadway)

PROFILE GRADE
FAU 0325 (Prop. Houbolt Road)

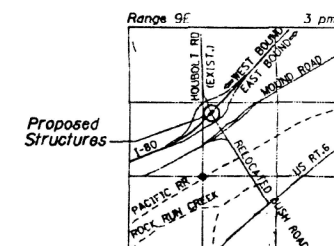
APPROVED
FOR STRUCTURAL ADEQUACY G-17

Ralph E Anderson
Instructor of Bridges and Structures

Dmytro Wesolowskyj, Illinois S.L. 081-003150



SECTION A-A



LOCATION MAP

REVISIONS	
NAME	DATE

GENERAL PLAN & ELEVATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION 00-2 (K & HB-1-R)
FAI-80 OVER MOUBOLT RD. (FAU-0325)
SN 099-0301 E.B. AND 099-0302 W.B.
PHASE II
WILL COUNTY

[As Revised] - 2-3-93 PMF

TRANSYSTEMS

USER NAME = amkluver	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = NTS	DRAWN -	REVISED -
PLOT DATE = 6/23/2023	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-02 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	560
CONTRACT NO. 62R27				
ILLINOIS		FED. AID PROJECT		

MODEL: Drawing Views
FILE NAME: pw:/transystems-pw1-hosted/Drawings/Projects 2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/2-3-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 02.dgn

MODEL: Drawing Views
FILE NAME: pw:/transsystems-pw.bentley.comtransyscorp-pw1-hosted/Drawings/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 03.dgn

GENERAL NOTES

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
S-1	GENERAL PLAN AND ELEVATION
S-2	INDEX OF SHEETS, GENERAL NOTES AND QUANTITIES
S-3	FOOTING LAY OUT
S-4	DECK PLAN AND CROSS SECTION (W.B.)
S-5	DECK PLAN AND CROSS SECTION (E.B.)
S-6	PARAPET ELEVATION AND DETAILS
S-7	DECK ELEVATION DETAILS
S-8	DECK ELEVATIONS - WESTBOUND
S-9	DECK ELEVATIONS - EAST & WEST BOUND
S-10	DECK ELEVATION - EASTBOUND
S-11	FRAMING PLAN - WEST & EASTBOUND
S-12	PLATE GIRDER DETAILS
S-13	PLATE GIRDER, CROSS FRAME AND END DIAPHRAGM DETAILS
S-14	INTEGRAL ABUTMENT - WEST (W.B.)
S-15	INTEGRAL ABUTMENT - EAST (W.B.)
S-16	INTEGRAL ABUTMENT - WEST (E.B.)
S-17	INTEGRAL ABUTMENT - EAST (E.B.)
S-18	BAR SPLICER (COUPLER) DETAILS
S-19	ANCHOR BOLT DETAILS FOR BEARINGS
S-20	MISCELLANEOUS DETAILS
S-21	DECK DRAINAGE DETAILS
S-22	STEEL DRAINAGE SCUPPER-SHT. 1 OF 2
S-23	ALTERNATE - CAST IRON DRAINAGE SCUPPER-SHT. 2 OF 2
S-24	SOIL BORING LOGS
S-25	EXISTING BRIDGE REMOVAL
S-26	EXISTING BRIDGE REMOVAL

STATE STANDARDS INCLUDED

NO.	TITLE
2113-2	DETAIL OF NAME PLATE FOR BRIDGES

STRUCTURAL STEEL

- FASTENERS SHALL BE HIGH STRENGTH BOLTS, BOLTS $\frac{1}{2}$ " DIAMETER, OPEN HOLES $\frac{5}{16}$ " DIAMETER, UNLESS OTHERWISE NOTED.
- CALCULATED WEIGHT OF STRUCTURAL STEEL = 775,000 LBS. (AASHTO M270 GR.36)
- ALL WELDING SHALL CONFORM TO THE AASHTO/AWS D15 BRIDGE WELDING CODE AND SUBSEQUENT AASHTO INTERIM SPECIFICATIONS.
- FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.
- ANCHOR BOLTS SHALL BE SET BEFORE BOLTING CROSS FRAMES OVER SUPPORTS.
- THE ZINC-SILICATE AND VINYL PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED. THE COLOR OF THE VINYL FINISH COAT FOR THE OUTSIDE FACES OF FASCIA GIRDERS SHALL BE MUNSELL NO. 7.5 G4/8 INTERSTATE GREEN. THE COLOR OF THE VINYL FINISH COAT FOR THE INTERIOR GIRDERS SHALL BE MUNSELL NO. 10 Y 7/1 LIGHT GREY.
- THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2. THESE COMPONENTS ARE TENSION FLANGES AND WEBS OF PLATE GIRDERS AND ALL SPLICE PLATE MATERIAL FOR GIRDERS EXCEPT FILL PLATES.
- ALL GIRDER FIELD SPLICES, DIAPHRAGMS & CROSS FRAMES CONNECTIONS SHALL BE BOLTED USING $\frac{1}{2}$ " DIAMETER HIGH STRENGTH BOLTS CONFORMING TO AASHTO M64. GIRDERS SPLICES SHALL BE SUBPUNCHED AND REAMED ASSEMBLED IN THE SHOP TO PROPER CAMBER.
- CAST-IN-PLACE CONCRETE
 - ALL BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE CONCRETE SHALL BE 3500 PSI CONCRETE. CONCRETE FOR PARAPET SHALL BE CHERT FREE.
 - ALL EXPOSED CONCRETE EDGES SHALL HAVE A $\frac{3}{4}$ "x $\frac{3}{4}$ " CHAMFER, EXCEPT WHERE SHOWN OTHERWISE. CHAMFER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.
- REINFORCING BARS
 - REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53 GRADE 60.
 - COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN.
 - REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.
 - REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
 - REINFORCEMENT BARS DESIGNATED "E" SHALL BE EPOXY COATED.

CONSTRUCTION

- DO NOT SCALE DIMENSIONS FOR CONSTRUCTION.
- NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS WILL BE ALLOWED UNLESS ORDERED BY THE ENGINEER.
- THE CONTRACTOR SHALL DRIVE ONE HP4X73 TEST PILE IN A PERMANENT LOCATION AT EACH ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.
- SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC, 6X6 - W4.0 x W4.0, WEIGHING 58 LBS. PER 100 SQ. FT.
- THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENT.
- ALL ELECTRICAL CONDUIT TO BE MOUNTED ON THE BRIDGE SHALL BE ATTACHED TO THE CONCRETE BY EXPANSION ANCHORS, NO CONDUIT WILL BE ATTACHED TO THE STRUCTURAL STEEL.

DESIGN CRITERIA

- DESIGN SPECIFICATIONS
 - AASHTO 1989 STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND ALL SUBSEQUENT INTERIMS THRU 1991.
 - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION, ADOPTED JULY 1, 1988 AND SUBSEQUENT PROVISIONS THRU 1991.
- DESIGN LOADING
 - LIVE LOAD HS 20-44 AND ALTERNATE MILITARY LOADING
 - FUTURE WEARING SURFACE = 25 PSF.
- DESIGN METHOD
 - LOAD FACTOR DESIGN IS USED FOR STRUCTURAL STEEL AND STRENGTH DESIGN FOR REINFORCED CONCRETE.
- CONCRETE
 - f'_c - COMPRESSIVE STRENGTH = 3,500 PSI.
- REINFORCEMENT
 - f_y = 60,000 PSI
- STRUCTURAL STEEL
 - f_y - YIELD STRENGTH (AASHTO M270 GRADE 36) = 36,000 PSI
- MAXIMUM LIVE LOAD DEFLECTION
 - SPAN LENGTH/800

TOTAL BILL OF MATERIAL FOR BOTH STRUCTURES

SN 099-0301 E.B. AND SN 099-0302 W.B.
AND SN 099-0201 REMOVAL

ITEM	UNIT	SUPER	SUB	TOTAL
CLASS X CONCRETE SUPERSTRUCTURE	CU. YD.	410.8	-	410.8
CLASS X CONCRETE	CU. YD.	-	260.0	260.0
BRIDGE DECK GROOVING	SQ. YD.	1,388	-	1,388
POROUS GRANULAR EMBANKMENT	CU. YD.	-	672	672
FURNISHING AND ERECTING STRUCTURAL STEEL	L. SUM	1	-	1
STUD SHEAR CONNECTORS	EACH	3,570	-	3,570
REINFORCEMENT BARS EPOXY COATED	LBS.	80,640	104,840	
FURNISHING STEEL PILES HP 14X73	L. FT.	-	1,287	1,287
DRIVING STEEL PILES	L. FT.	-	1,183	1,183
TEST PILES	EACH	-	4	4
DRAINAGE SCUPPERS	EACH	4	-	4
DRAINAGE SYSTEM	Lum Sum	1	-	1
SLOPE WALL 4 IN.	SQ. YD.	-	515	515
PROTECTIVE COAT	SQ. YD.	242	-	242
NAME PLATE	EACH	2	-	2
STRUCTURE EXCAVATION	CU. YD.	-	40	40
REMOVAL OF EXISTING STRUCTURES	EACH	1	-	1
PROTECTIVE SHIELD	SQ. YD.	200	-	200

** PARAPET ONLY

Designed by
FLUOR DANIEL S
Job No. 834700
Drawn: J.S. Checked: D.H. Scale: 1" = 10'-0"
Revised: G.A./J.L. Date: 6/23/2023
Checked: D.C.

AS REVISED

As Revised 2-3-93 PMF

INDEX OF SHEETS, GENERAL NOTE AND QUANTITIES	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SECTION 99-2 (K & HB-1-R) FAI-80 OVER HOUBOLT RD. (FAU-03: SN 099-0301 E.B. AND 099-0302 W.B.) PHASE II WILL COUNTY	

REVISIONS	
NAME	DATE

TRANSYSTEMS

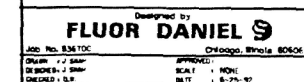
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PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 6/23/2023	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-03 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	561
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

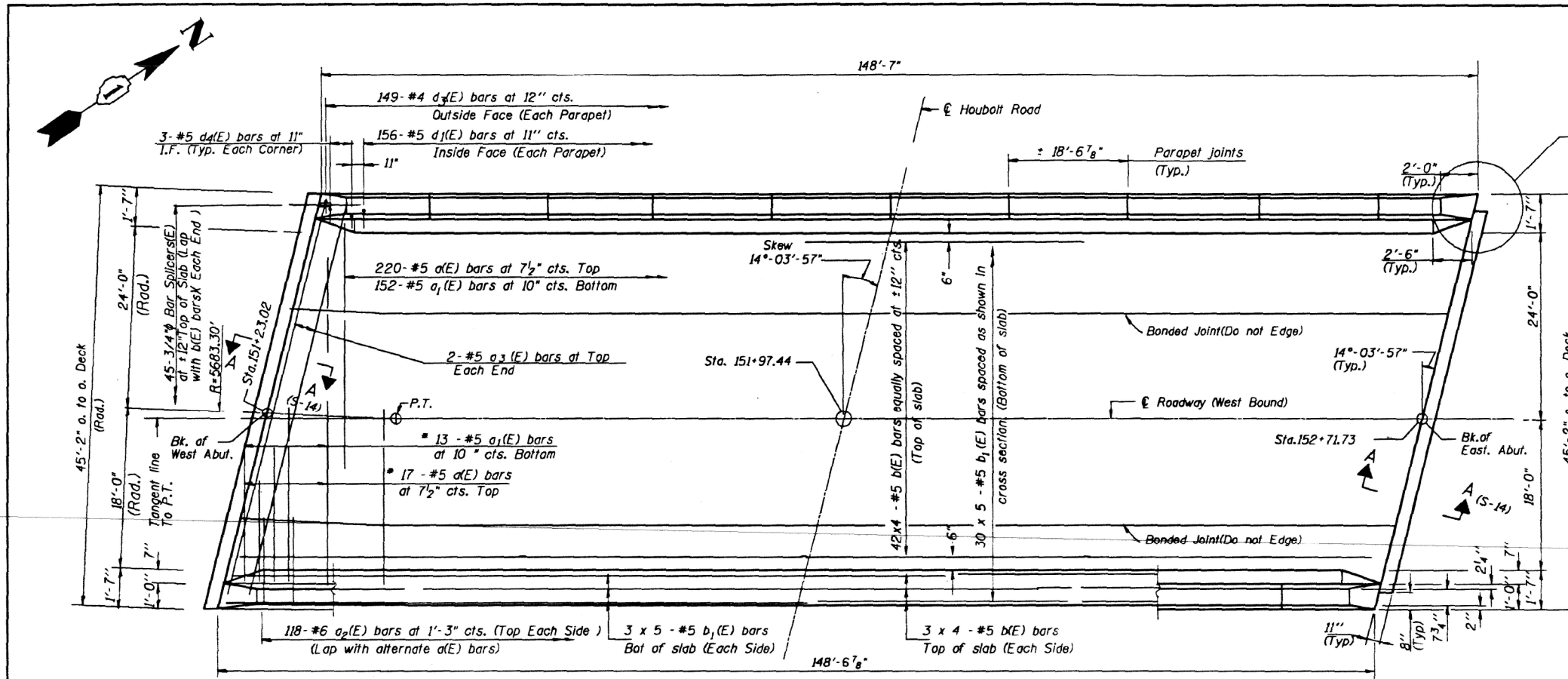


REVISIONS	
NAME	DATE

FOOTING LAYOUT

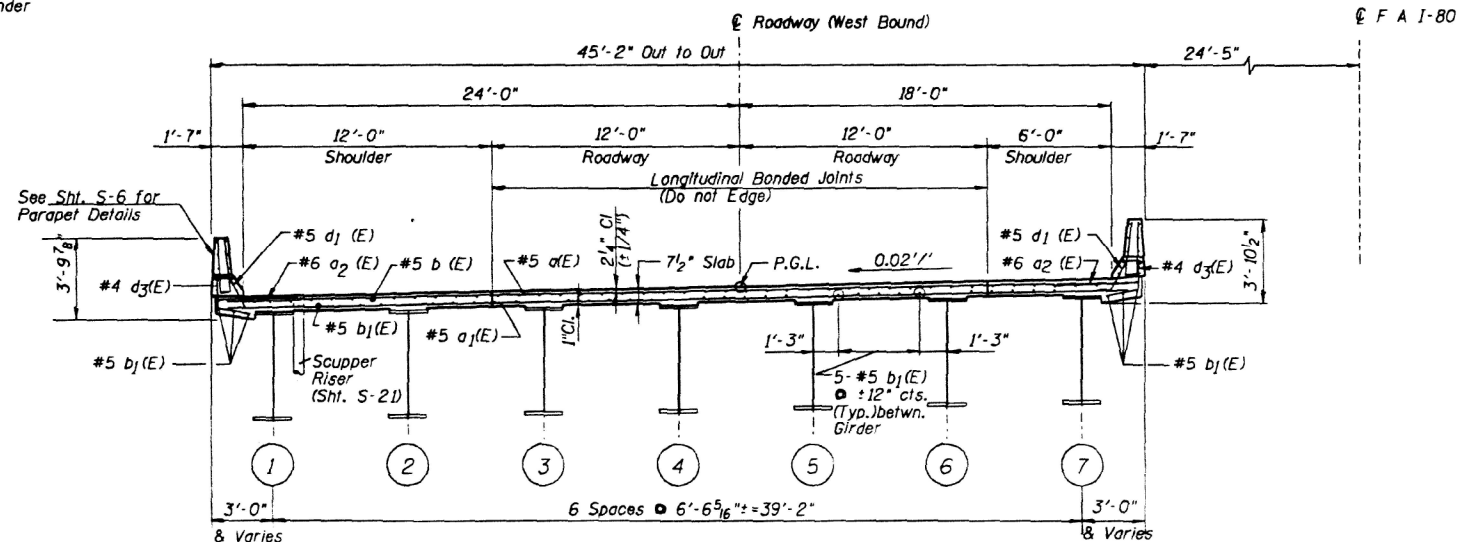
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION 09-2 (K & MB-1-R)
FAI-80 OVER HOUBOLT RD. (FAU-0325)
SN 099-0301 E.B. AND 099-0302 W.B.
PHASE II
WILL COUNTY

MODEL: Drawing Views
FILE NAME: pw:\transystems-pw\1-hosted\Documents\Projects_2018\CH401\401180022\02-Transystems\CAD\62R27\Sheets\23-Structural\099-0301 & 099-0302 Existing\0990301EX-62R27-001-Existing Plans 05.dgn



DECK PLAN

* Order d(E) & a1(E) bars full length.
Cut to fit skew and use remainder
of bars in opposite end.

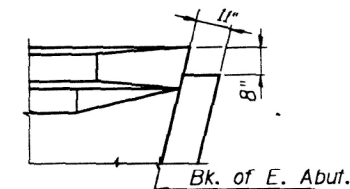


CROSS SECTION

* 99-2 (K & HB-1-R)

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0305	*	WILL	286	158
ETA.	TO STA.	ILLINOIS	FED. AID PROJECT	

Sheet S-4 of S-26



DETAIL - 1
Similar opposite Side

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a (E)	237	#5	44'-6"	
a1(E)	165	#5	42'-10"	
a2(E)	236	#6	4'-0"	
a3(E)	4	#5	45'-10"	
a4(E)	16	#5	2'-0"	
b (E)	192	#5	38'-4"	
b1(E)	180	#5	31'-0"	
d1(E)	312	#5	2'-7"	J
d2(E)	298	#4	3'-7"	J
d4(E)	12	#5	2'-6"	J
Item		Units	Quantity	
Class x Concrete Superstructure		Cu. Yd.	173.4	
Reinfr. Bars Epoxy Coated		Lbs.	35,100	
Bridge Deck Grooving		Sq.Yd	694	

Min. bar lap for #5 bars = 1'-8"
** See sheet S-21

Work This Sheet With Sht. S-6, S-7, S-8, S-14,
S-15 & S-21

Designed by
FLUOR DANIEL
1000 N. KENYON
CHICAGO, ILL. 60610
Phone: 312.236.1000
Fax: 312.236.1001
E-Mail: info@fd.com
Web: www.fd.com

REVISIONS	
NAME	DATE

DECK PLAN AND CROSS SECTION
WEST BOUND
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION 99-2 (K & HB-1-R)
FAI-80 OVER HOUBOLT RD. (FAU-0325)
SN 099-0301 E.B. AND 099-0302 W.B.
PHASE II
WILL COUNTY

TRANSYSTEMS

USER NAME =	amkluver	DESIGNED -		REVISED -	
		CHECKED -		REVISED -	
PLOT SCALE =	NTS	DRAWN -		REVISED -	
PLOT DATE =	6/23/2023	CHECKED -		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-05 OF SE1-48 SHEETS

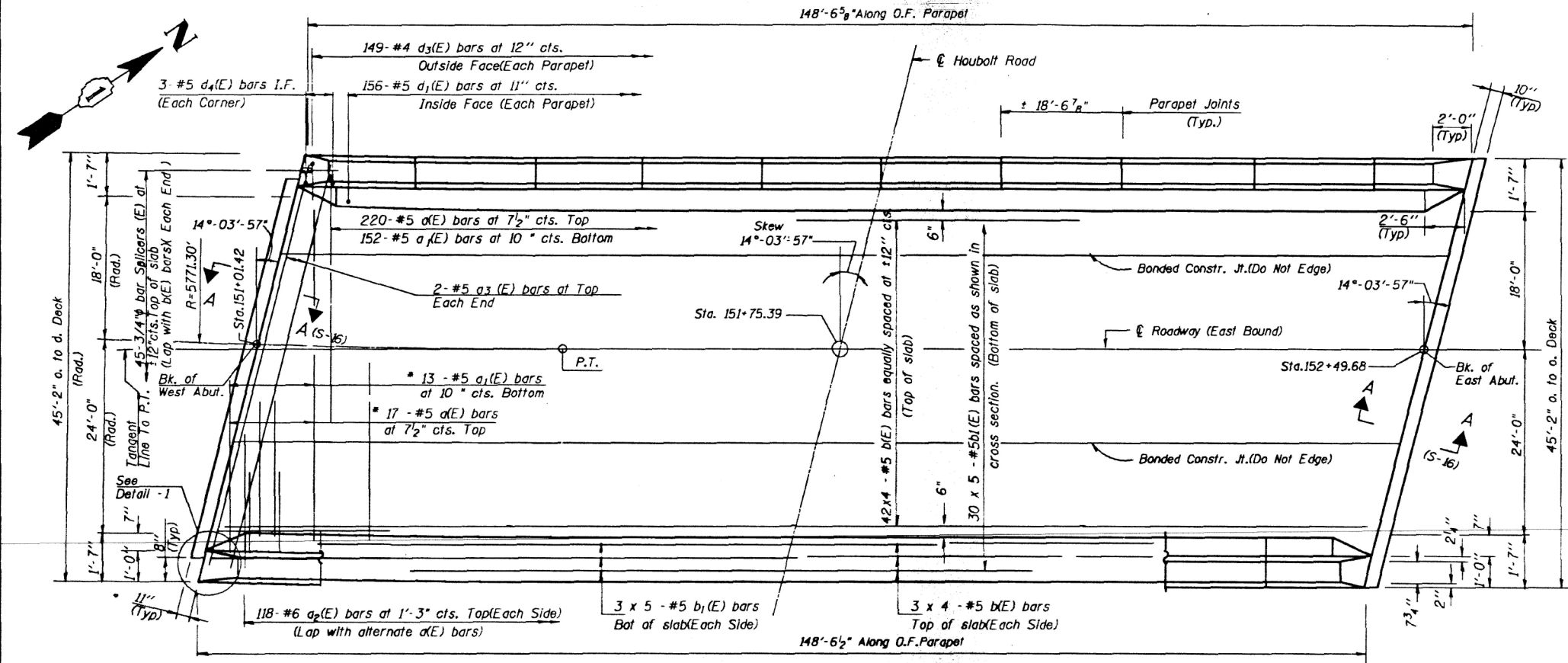
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	563
CONTRACT NO. 62R27				
ILLINOIS		FED. AID PROJECT		

MODEL: Drawing Views
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* 99-2 (K & HB-1-R)

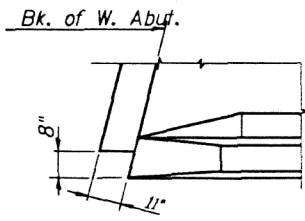
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	WILL	WILL	286	159
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Sheet No. S-5 of S-26

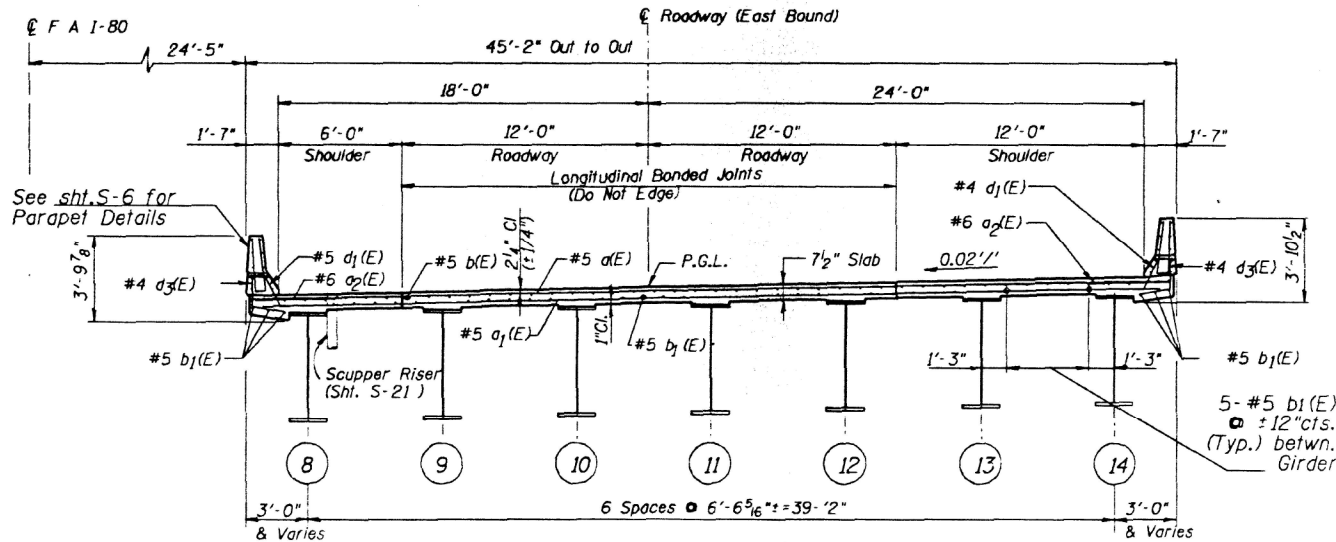


DECK PLAN

* Order a(E) & a1(E) bars full length.
Cut to fit skew and use remainder
of bars in opposite end.



DETAIL - 1
Similar opposite side



CROSS SECTION

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a (E)	237	#5	44'-6"	—
a1(E)	165	#5	42'-10"	—
a2(E)	236	#6	4'-0"	—
a3(E)	4	#5	45'-10"	—
a4(E)	16	#5	2'-0"	—
b (E)	192	#5	38'-4"	—
b1(E)	180	#5	31'-0"	—
d1(E)	312	#5	2'-7"	J
d2(E)	298	#4	3'-7"	J
d4(E)	12	#5	2'-6"	L
Item	Units	Quantity		
Class x Concrete Superstructure	Cu. Yd.	173.4		
Reinf. Bars Epoxy Coated	Lbs.	35,100		
Bridge Deck Grooving	Sq.Yd.	694		

Min. bar lap for # 5 bars = 1'-8"
** See Sheet S-21

Work This Sheet With Shl. S-6, S-7, S-9,
S-10, S-16, S-17 & S-21

Designed by
FLUOR DANIEL
JED No. 83470C Chicago, Illinois 60606
CHECKED: D.B. SCALE: NONE
DATE: 6-25-97

TRANSYSTEMS

USER NAME = amkluver
DESIGNED -
CHECKED -
PLOT SCALE = NTS
DRAWN -
PLOT DATE = 6/23/2023
CHECKED -

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

REVISED -
REVISED -
REVISED -
REVISED -

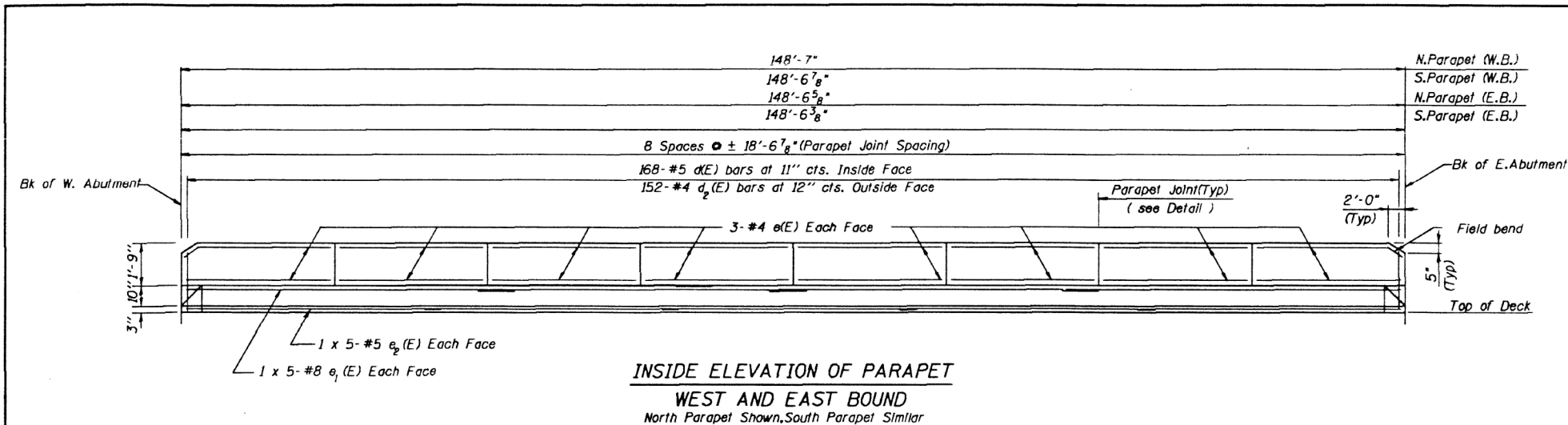
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-06 OF SE1-48 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
I-80 FAI 80 21 STRUCTURE 6 WILL 898 564
CONTRACT NO. 62R27
ILLINOIS FED. AID PROJECT

MODEL: Drawing Views
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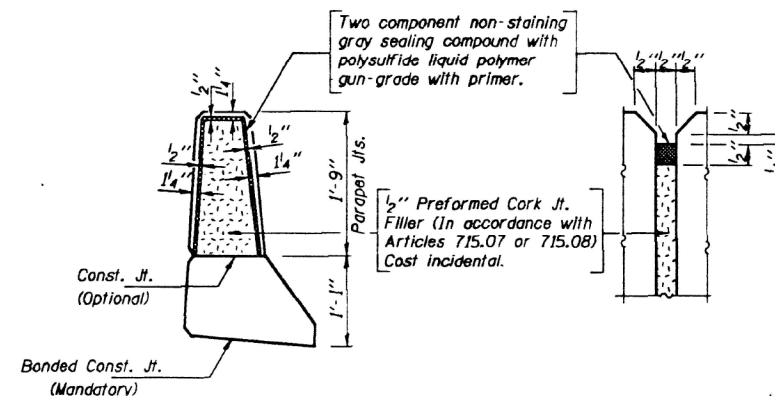
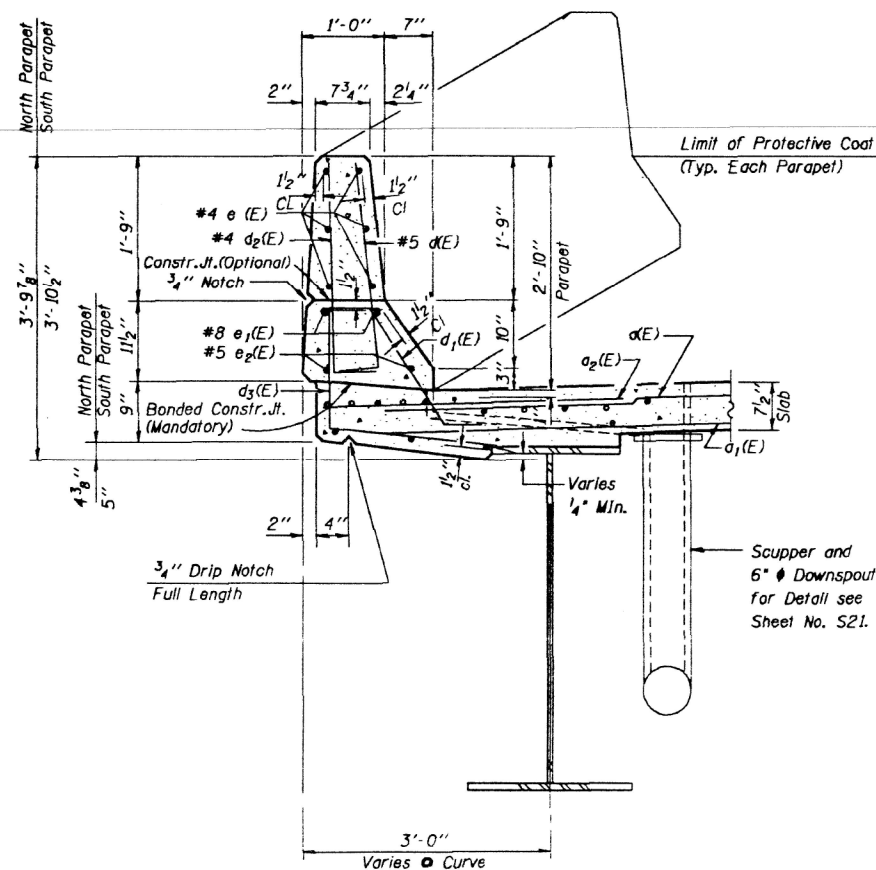


**BILL OF MATERIAL
WESTBOUND**

Bar	No.	Size	Length	Shape
d(E)	336	#5	3'-0"	—
d ₂ (E)	304	#4	3'-0"	—
e(E)	96	#4	18'-3"	—
e ₁ (E)	16	#8	40'-9"	—
e ₂ (E)	20	#5	31'-5"	—
Reinforcement Bars (Epoxy Coated)			Lbs.	5220
Class X Concrete Superstructure			Cu. Yds.	32.0
Protective Coat			Sq. Yd	121

BARS d(E) & d₂(E)

2'-6"
6"



PARAPET JOINT DETAILS

EASTBOUND

Bar	No.	Size	Length	Shape
d(E)	336	#5	3'-0"	—
d ₂ (E)	304	#4	3'-0"	—
e(E)	96	#4	18'-3"	—
e ₁ (E)	16	#8	40'-6"	—
e ₂ (E)	20	#5	31'-5"	—
Reinforcement Bars (Epoxy Coated)			Lbs.	5220
Class X Concrete Superstructure			Cu. Yds.	32.0
Protective Coat			Sq. Yd	121

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus A x B - #5 etc. indicates A line of bars with B lengths per line.
Minimum bar lap for e₁(E) bars shall be 4'-6"
Minimum bar lap for e₂(E) bars shall be 2'-2"

Work This Sheet With Shl. S-4 & S-5.

Designed by
FLUOR DANIEL
Job No. 626700
Drawn: J.C.
Checked: J.C.
Scale: AS SHOWN
Date: 6-24-22

TRANSYSTEMS

USER NAME	= amkluver	DESIGNED	-	REVISED	-
PLOT SCALE	= NTS	CHECKED	-	REVISED	-
PLOT DATE	= 6/23/2023	DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302**

SHEET SE1-07 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	565
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

PARAPET ELEVATION AND DETAILS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION 95-2 (K & HB-1-R)
FAI-80 OVER HOUBOLT RD. (FAU-0325)
SN 099-0301 E.B. AND 099-0302 W.B.
PHASE II
WILL COUNTY

MODEL: Drawing Views
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TRANSYSTEMS

USER NAME	=	amkluver	DESIGNED	-	REVISED	-
PLOT SCALE	=	NTS	CHECKED	-	REVISED	-
PLOT DATE	=	6/23/2023	DRAWN	-	REVISED	-
			CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

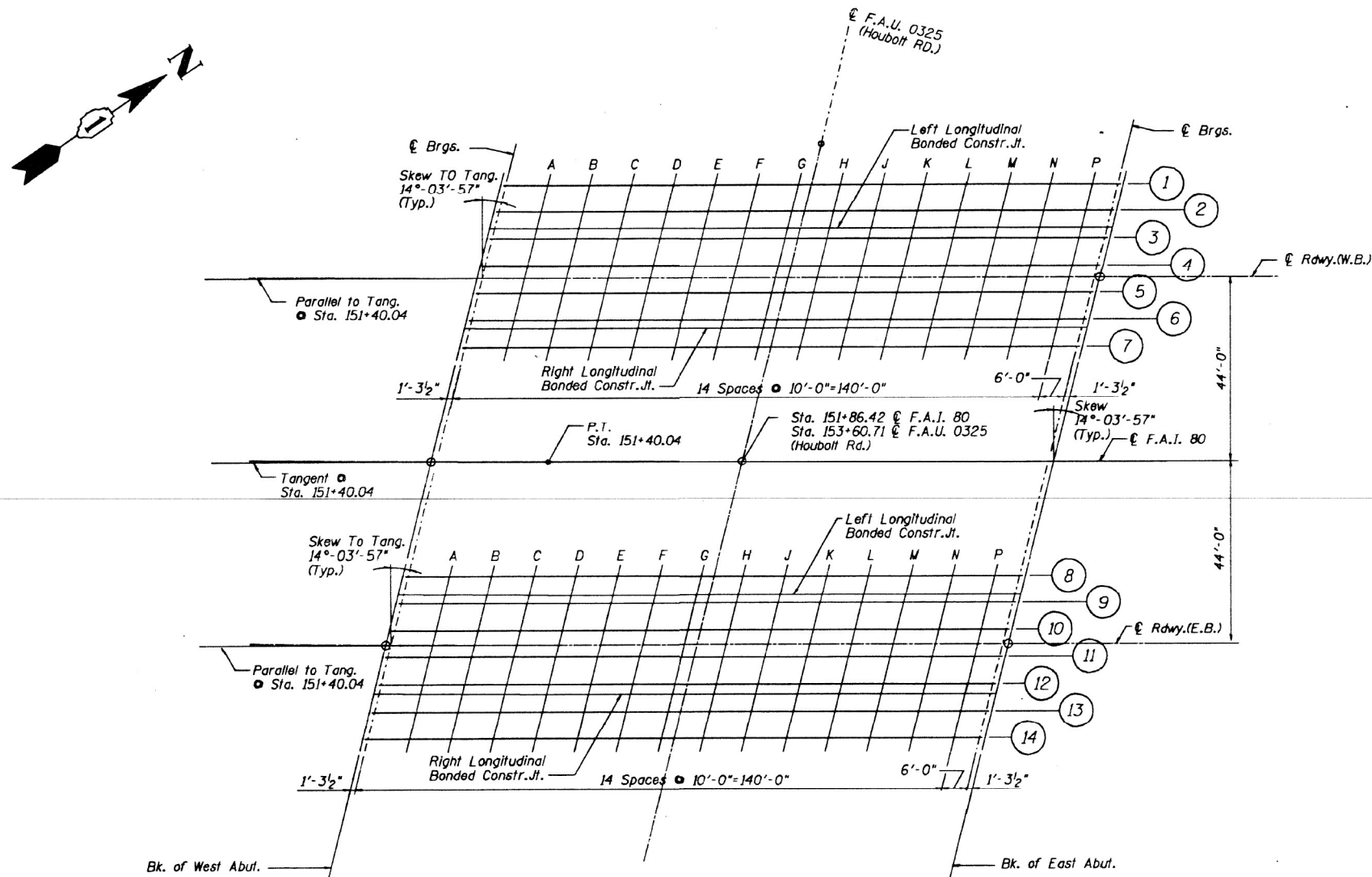
SHEET SE1-08 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	566
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

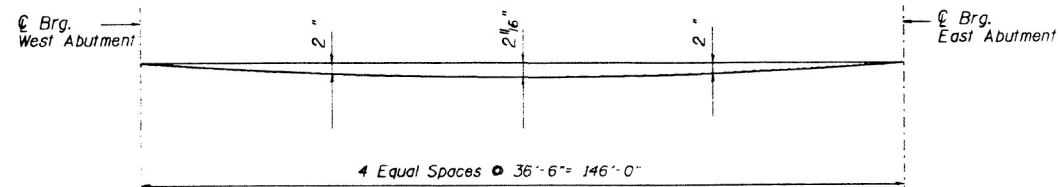
99-2 (K & HB-1-R)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	WILL	WILL	286	161
STA.	TO STA.			
FED. ROAD DIST. NO.	ILL. PROJ.	FED. AID PROJECT		

Sheet S-7 of S-26

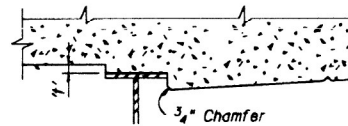


PLAN

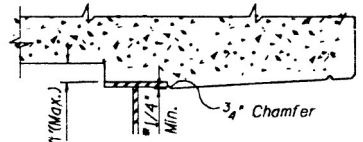


DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete slab only)

Designed by
FLUOR DANIEL
Job No. 634701
Drawn: J.C. Checked: J.C.
Scale: 1/8"=1'-0"
Date: 6/23/23



AT MINIMUM FILLET



AT MAXIMUM FILLET

METHOD OF DETERMINING FILLET HEIGHTS "f"

After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at the stations shown on Elevation sheets. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on this Sheet minus slab thickness, equals the fillet heights "f" above top flanges of beams.

NOTE: For Top of Deck Elevation Tables, see Sheet S-8, S-9, & S-10.

REVISIONS	
NAME	DATE

DECK ELEVATION DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION 99-2 (K & HB-1-R)
FAI-80 OVER HOUBOLT RD. (FAU-0325)
SN 099-0301 E.B. AND 099-0302 W.B.
PHASE II
WILL COUNTY

MODEL: Drawing Views
FILE NAME: pw://transsystems-pw.bentley.com/transsystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 09.dgn

* 99-2 (K & HB-1-R)

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	K	WILL	286	162
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET 5-B OF 5-26

LT. CURB LINE (W.B.)				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15129.025	-68.000	605.140	605.140
℄.BRG.W.ABUT.	15130.329	-68.000	605.146	605.146
A	15140.449	-68.000	605.194	605.250
B	15150.449	-68.000	605.237	605.342
C	15160.449	-68.000	605.278	605.423
D	15170.449	-68.000	605.315	605.492
E	15180.449	-68.000	605.349	605.549
F	15190.449	-68.000	605.380	605.596
G	15200.449	-68.000	605.408	605.630
H	15210.449	-68.000	605.433	605.653
I	15220.449	-68.000	605.455	605.665
J	15230.449	-68.000	605.474	605.665
K	15240.449	-68.000	605.489	605.654
L	15250.449	-68.000	605.501	605.631
M	15260.449	-68.000	605.511	605.597
N	15270.449	-68.000	605.517	605.552
℄.BRG.E.ABUT.	15276.449	-68.000	605.519	605.519
BK.EAST ABUT.	15277.744	-68.000	605.519	605.519

BEAM NO. 1				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15128.681	-66.572	605.167	605.167
℄.BRG.W.ABUT.	15129.985	-66.575	605.173	605.173
A	15140.094	-66.583	605.220	605.277
B	15150.094	-66.583	605.264	605.369
C	15160.094	-66.583	605.304	605.449
D	15170.094	-66.583	605.342	605.519
E	15180.094	-66.583	605.376	605.576
F	15190.094	-66.583	605.407	605.623
G	15200.094	-66.583	605.435	605.657
H	15210.094	-66.583	605.460	605.681
I	15220.094	-66.583	605.482	605.692
J	15230.094	-66.583	605.501	605.693
K	15240.094	-66.583	605.517	605.682
L	15250.094	-66.583	605.529	605.659
M	15260.094	-66.583	605.538	605.625
N	15270.094	-66.583	605.545	605.580
℄.BRG.E.ABUT.	15276.094	-66.583	605.547	605.547
BK.EAST ABUT.	15277.389	-66.583	605.547	605.547

BEAM NO. 2				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15127.041	-60.041	605.289	605.289
℄.BRG.W.ABUT.	15128.343	-60.044	605.296	605.296
A	15138.449	-60.055	605.343	605.400
B	15148.459	-60.056	605.388	605.493
C	15158.459	-60.056	605.429	605.574
D	15168.459	-60.056	605.467	605.644
E	15178.459	-60.056	605.502	605.702
F	15188.459	-60.056	605.533	605.749
G	15198.459	-60.056	605.562	605.784
H	15208.459	-60.056	605.587	605.808
I	15218.459	-60.056	605.610	605.820
J	15228.459	-60.056	605.629	605.821
K	15238.459	-60.056	605.645	605.810
L	15248.459	-60.056	605.658	605.788
M	15258.459	-60.056	605.668	605.755
N	15268.459	-60.056	605.675	605.710
℄.BRG.E.ABUT.	15274.459	-60.056	605.677	605.677
BK.EAST ABUT.	15275.754	-60.056	605.678	605.678

LEFT LONGITUDINAL JOINT (W.B.)				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15126.014	-56.000	605.365	605.365
℄.BRG.W.ABUT.	15127.315	-56.000	605.371	605.371
A	15137.413	-56.000	605.420	605.475
B	15147.443	-56.000	605.464	605.569
C	15157.443	-56.000	605.506	605.650
D	15167.443	-56.000	605.544	605.721
E	15177.443	-56.000	605.579	605.780
F	15187.443	-56.000	605.611	605.828
G	15197.443	-56.000	605.640	605.864
H	15207.443	-56.000	605.666	605.888
I	15217.443	-56.000	605.689	605.900
J	15227.443	-56.000	605.708	605.901
K	15237.443	-56.000	605.725	605.890
L	15247.443	-56.000	605.738	605.867
M	15257.443	-56.000	605.748	605.834
N	15267.443	-56.000	605.755	605.790
℄.BRG.E.ABUT.	15273.443	-56.000	605.758	605.758
BK.EAST ABUT.	15274.737	-56.000	605.758	605.758

BEAM NO. 3				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15125.405	-53.509	605.411	605.411
℄.BRG.W.ABUT.	15126.706	-53.512	605.418	605.418
A	15136.800	-53.527	605.466	605.523
B	15146.823	-53.528	605.511	605.616
C	15156.823	-53.528	605.552	605.697
D	15166.823	-53.528	605.591	605.768
E	15176.823	-53.528	605.626	605.826
F	15186.823	-53.528	605.658	605.874
G	15196.823	-53.528	605.688	605.909
H	15206.823	-53.528	605.714	605.934
I	15216.823	-53.528	605.736	605.947
J	15226.823	-53.528	605.756	605.948
K	15236.823	-53.528	605.773	605.938
L	15246.823	-53.528	605.786	605.916
M	15256.823	-53.528	605.797	605.883
N	15266.823	-53.528	605.804	605.839
℄.BRG.E.ABUT.	15272.823	-53.528	605.807	605.807
BK.EAST ABUT.	15274.118	-53.528	605.807	605.807

BEAM NO. 4				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15123.773	-46.977	605.534	605.534
℄.BRG.W.ABUT.	15125.072	-46.981	605.541	605.541
A	15135.155	-46.998	605.589	605.646
B	15145.223	-46.998	605.635	605.740
C	15155.188	-47.000	605.677	605.822
D	15165.188	-47.000	605.716	605.893
E	15175.188	-47.000	605.752	605.952
F	15185.188	-47.000	605.784	606.000
G	15195.188	-47.000	605.814	606.036
H	15205.188	-47.000	605.840	606.061
I	15215.188	-47.000	605.864	606.074
J	15225.188	-47.000	605.884	606.076
K	15235.188	-47.000	605.901	606.066
L	15245.188	-47.000	605.915	606.045
M	15255.188	-47.000	605.926	606.013
N	15265.188	-47.000	605.934	605.969
℄.BRG.E.ABUT.	15271.188	-47.000	605.937	605.937
BK.EAST ABUT.	15272.483	-47.000	605.938	605.938

P.G.L. (W.B.)				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15123.016	-44.000	605.590	605.590
℄.BRG.W.ABUT.	15124.314	-44.000	605.597	605.597
A	15134.391	-44.000	605.646	605.702
B	15144.436	-44.000	605.691	605.797
C	15154.436	-44.000	605.734	605.879
D	15164.436	-44.000	605.773	605.950
E	15174.436	-44.000	605.809	606.009
F	15184.436	-44.000	605.842	606.057
G	15194.436	-44.000	605.872	606.094
H	15204.436	-44.000	605.899	606.119
I	15214.436	-44.000	605.922	606.133
J	15224.436	-44.000	605.943	606.135
K	15234.436	-44.000	605.960	606.125
L	15244.436	-44.000	605.974	606.105
M	15254.436	-44.000	605.986	606.072
N	15264.436	-44.000	605.994	606.029
℄.BRG.E.ABUT.	15270.436	-44.000	605.997	605.997
BK.EAST ABUT.	15271.731	-44.000	605.997	605.997

BEAM NO. 5				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15122.145	-40.444	605.657	605.657
℄.BRG.W.ABUT.	15123.442	-40.448	605.664	605.664
A	15133.513	-40.468	605.713	605.769
B	15143.552	-40.472	605.758	605.863
C	15153.552	-40.472	605.801	605.946
D	15163.552	-40.472	605.841	606.017
E	15173.552	-40.472	605.877	606.077
F	15183.552	-40.472	605.910	606.125
G	15193.552	-40.472	605.940	606.162
H	15203.552	-40.472	605.967	606.188
I	15213.552	-40.472	605.991	606.201
J	15223.552	-40.472	606.012	606.204
K	15233.552	-40.472	606.030	606.195
L	15243.552	-40.472	606.044	606.174
M	15253.552	-40.472	606.056	606.142
N	15263.552	-40.472	606.064	606.099
℄.BRG.E.ABUT.	15269.552	-40.472	606.067	606.067
BK.EAST ABUT.	15270.847	-40.472	606.068	606.068

BEAM NO. 6				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15120.520	-33.911	605.779	605.779
℄.BRG.W.ABUT.	15121.816	-33.916	605.785	605.785
A	15131.876	-33.939	605.835	605.891
B	15141.917	-33.944	605.881	605.986
C	15151.917	-33.944	605.924	606.069
D	15161.917	-33.944	605.964	606.141
E	15171.917	-33.944	606.001	606.201
F	15181.917	-33.944	606.035	606.250
G	15191.917	-33.944	606.066	606.287
H	15201.917	-33.944	606.093	606.313
I	15211.917	-33.944	606.118	606.328
J	15221.917	-33.944	606.139	606.331
K	15231.917	-33.944	606.157	606.322
L	15241.917	-33.944	606.172	606.302
M	15251.917	-33.944	606.184	606.271
N	15261.917	-33.944	606.193	606.228
℄.BRG.E.ABUT.	15267.917	-33.944	606.196	606.196
BK.EAST ABUT.	15269.211	-33.944	606.197	606.197

Note: For Deck Elevation Details, See
Sheet No. 5-7.

REVISIONS	
NAME	DATE

DECK ELEVATIONS
WEST BOUND

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION 06-21X & HB-1-E
FAI-80 OVER HOUBOLT RD. (FAI-0325)
SN 099-0301 E.B. & 099-0302 W.B.
PHASE II
WILL COUNTY

TRANSYSTEMS

USER NAME =	amkluver	DESIGNED -	REVISED -
CHECKED -		CHECKED -	REVISED -
PLOT SCALE =	NTS	DRAWN -	REVISED -
PLOT DATE =	6/23/2023	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-09 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	567
		CONTRACT NO. 62R27		
ILLINOIS		FED. AID PROJECT		

MODEL: Drawing Views
FILE NAME: pw:/transystems-pw-bentley.comtransystems-pw-l-hosted/Documents/Projects_2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 10.dgn

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	*	WILL	286	163
SHEET NO. 163				
SHEET NO. 163				

Sheet 5-9 of 5-26

RIGHT LONGITUDINAL JOINT (W.B.)					THEORET.GRADE	
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	EL. ADJ. FOR D.L. DEFLECTION		
BK.WEST ABUT.	15120.031	-32.000	605.815	605.815		
€ .BRG.W.ABUT.	15121.325	-32.000	605.821	605.821		
A	15131.382	-32.000	605.871	605.927		
B	15141.430	-32.000	605.918	606.022		
C	15151.430	-32.000	605.961	606.106		
D	15161.430	-32.000	606.001	606.178		
E	15171.430	-32.000	606.038	606.239		
F	15181.430	-32.000	606.072	606.289		
G	15191.430	-32.000	606.103	606.327		
H	15201.430	-32.000	606.131	606.353		
I	15211.430	-32.000	606.155	606.367		
J	15221.430	-32.000	606.177	606.369		
K	15231.430	-32.000	606.195	606.360		
L	15241.430	-32.000	606.210	606.340		
M	15251.430	-32.000	606.222	606.308		
N	15261.430	-32.000	606.231	606.266		
€ .BRG.E.ABUT.	15267.430	-32.000	606.235	606.235		
BK.EAST ABUT.	15268.724	-32.000	606.236	606.236		

BEAM NO.7					THEORET.GRADE	
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	EL. ADJ. FOR D.L. DEFLECTION		
BK.WEST ABUT.	15118.899	-27.378	605.900	605.900		
€ .BRG.W.ABUT.	15120.194	-27.382	605.907	605.907		
A	15130.242	-27.408	605.958	606.014		
B	15140.281	-27.417	606.005	606.110		
C	15150.281	-27.417	606.048	606.194		
D	15160.281	-27.417	606.089	606.266		
E	15170.281	-27.417	606.126	606.327		
F	15180.281	-27.417	606.161	606.376		
G	15190.281	-27.417	606.192	606.414		
H	15200.281	-27.417	606.220	606.440		
I	15210.281	-27.417	606.245	606.455		
J	15220.281	-27.417	606.267	606.458		
K	15230.281	-27.417	606.285	606.450		
L	15240.281	-27.417	606.301	606.431		
M	15250.281	-27.417	606.313	606.400		
N	15260.281	-27.417	606.322	606.357		
€ .BRG.E.ABUT.	15266.281	-27.417	606.327	606.327		
BK.EAST ABUT.	15267.576	-27.417	606.327	606.327		

RT.CURB LINE (W.B.)					THEORET.GRADE	
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	EL. ADJ. FOR D.L. DEFLECTION		
BK.WEST ABUT.	15118.543	-26.000	605.613	605.613		
€ .BRG.W.ABUT.	15119.836	-26.000	605.619	605.619		
A	15129.882	-26.000	605.670	605.726		
B	15139.927	-26.000	605.717	605.822		
C	15149.926	-26.000	605.869	606.014		
D	15159.926	-26.000	605.910	606.086		
E	15169.926	-26.000	605.947	606.147		
F	15179.926	-26.000	605.981	606.197		
G	15189.926	-26.000	606.013	606.235		
H	15199.926	-26.000	606.041	606.261		
I	15209.926	-26.000	606.066	606.276		
J	15219.926	-26.000	606.088	606.280		
K	15229.926	-26.000	606.107	606.272		
L	15239.926	-26.000	606.122	606.252		
M	15249.926	-26.000	606.135	606.221		
N	15259.926	-26.000	606.144	606.179		
€ .BRG.E.ABUT.	15265.926	-26.000	606.148	606.148		
BK.EAST ABUT.	15267.221	-26.000	606.149	606.149		

LT.CURB LINE (E.B.)					THEORET.GRADE	
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	EL. ADJ. FOR D.L. DEFLECTION		
BK.WEST ABUT.	15105.783	26.000	605.138	605.138		
€ .BRG.W.ABUT.	15107.064	26.000	605.145	605.145		
A	15117.019	26.000	605.199	605.256		
B	15126.973	26.000	605.250	605.355		
C	15136.928	26.000	605.297	605.442		
D	15146.898	26.000	605.342	605.519		
E	15156.898	26.000	605.384	605.584		
F	15166.898	26.000	605.422	605.637		
G	15176.898	26.000	605.457	605.679		
H	15186.898	26.000	605.490	605.710		
I	15196.898	26.000	605.519	605.729		
J	15206.898	26.000	605.545	605.736		
K	15216.898	26.000	605.568	605.733		
L	15226.898	26.000	605.587	605.717		
M	15236.898	26.000	605.604	605.691		
N	15246.898	26.000	605.617	605.652		
€ .BRG.E.ABUT.	15252.898	26.000	605.624	605.624		
BK.EAST ABUT.	15254.192	26.000	605.625	605.625		

BEAM NO.8					THEORET.GRADE	
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	EL. ADJ. FOR D.L. DEFLECTION		
BK.WEST ABUT.	15105.428	27.522	605.166	605.166		
€ .BRG.W.ABUT.	15106.710	27.514	605.173	605.173		
A	15116.662	27.465	605.226	605.283		
B	15126.614	27.432	605.276	605.381		
C	15136.567	27.418	605.324	605.469		
D	15146.543	27.417	605.368	605.545		
E	15156.543	27.417	605.410	605.610		
F	15166.543	27.417	605.449	605.664		
G	15176.543	27.417	605.484	605.706		
H	15186.543	27.417	605.516	605.737		
I	15196.543	27.417	605.546	605.756		
J	15206.543	27.417	605.572	605.764		
K	15216.543	27.417	605.595	605.760		
L	15226.543	27.417	605.615	605.745		
M	15236.543	27.417	605.631	605.718		
N	15246.543	27.417	605.645	605.680		
€ .BRG.E.ABUT.	15252.543	27.417	605.651	605.651		
BK.EAST ABUT.	15253.837	27.417	605.653	605.653		

LEFT LONGITUDINAL JOINT (E.W.)					THEORET.GRADE	
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	EL. ADJ. FOR D.L. DEFLECTION		
BK.WEST ABUT.	15104.326	32.000	605.250	605.250		
€ .BRG.W.ABUT.	15105.605	32.000	605.257	605.257		
A	15115.550	32.000	605.311	605.367		
B	15125.494	32.000	605.362	605.467		
C	15135.439	32.000	605.410	605.555		
D	15145.394	32.000	605.455	605.633		
E	15155.394	32.000	605.498	605.699		
F	15165.394	32.000	605.536	605.753		
G	15175.394	32.000	605.572	605.796		
H	15185.394	32.000	605.605	605.827		
I	15195.394	32.000	605.635	605.846		
J	15205.394	32.000	605.661	605.853		
K	15215.394	32.000	605.684	605.849		
L	15225.394	32.000	605.704	605.834		
M	15235.394	32.000	605.722	605.807		
N	15245.394	32.000	605.735	605.770		
€ .BRG.E.ABUT.	15251.394	32.000	605.742	605.742		
BK.EAST ABUT.	15252.689	32.000	605.744	605.744		

BEAM NO.9					THEORET.GRADE	
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	EL. ADJ. FOR D.L. DEFLECTION		
BK.WEST ABUT.	15103.841	34.060	605.289	605.289		
€ .BRG.W.ABUT.	15105.122	34.052	605.296	605.296		
A	15115.063	33.999	605.349	605.406		
B	15125.004	33.964	605.400	605.505		
C	15134.945	33.947	605.447	605.592		
D	15144.907	33.944	605.492	605.669		
E	15154.907	33.944	605.535	605.735		
F	15164.907	33.944	605.574	605.789		
G	15174.907	33.944	605.610	605.832		
H	15184.907	33.944	605.643	605.863		
I	15194.907	33.944	605.672	605.882		
J	15204.907	33.944	605.699	605.891		
K	15214.907	33.944	605.722	605.887		
L	15224.907	33.944	605.743	605.873		
M	15234.907	33.944	605.760	605.847		
N	15244.907	33.944	605.774	605.809		
€ .BRG.E.ABUT.	15250.907	33.944	605.781	605.781		
BK.EAST ABUT.	15252.202	33.944	605.782	605.782		

BEAM NO.10					THEORET.GRADE	
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	EL. ADJ. FOR D.L. DEFLECTION		
BK.WEST ABUT.	15102.258	40.598	605.411	605.411		
€ .BRG.W.ABUT.	15103.537	40.589	605.418	605.418		
A	15113.467	40.534	605.472	605.528		
B	15123.397	40.497	605.522	605.628		
C	15133.326	40.476	605.571	605.716		
D	15143.272	40.472	605.616	605.793		
E	15153.272	40.472	605.659	605.859		
F	15163.272	40.472	605.699	605.914		
G	15173.272	40.472	605.735	605.957		
H	15183.272	40.472	605.768	605.989		
I	15193.272	40.472	605.799	606.009		
J	15203.272	40.472	605.826	606.018		
K	15213.272	40.472	605.850	606.015		
L	15223.272	40.472	605.871	606.001		
M	15233.272	40.472	605.888	605.975		
N	15243.272	40.472	605.903	605.938		
€ .BRG.E.ABUT.	15249.272	40.472	605.910	605.910		
BK.EAST ABUT.	15250.566	40.472	605.912	605.912		

P.G.L.(E.B.)			THEORET.GRADE	
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15101.421	44.000	605.473	605.473
€ .BRG.W.ABUT.	15102.698	44.000	605.481	605.481
A	15112.622	44.000	605.536	605.593
B	15122.545	44.000	605.588	605.693
C	15132.469	44.000	605.636	605.782
D	15142.388	44.000	605.682	605.859
E	15152.388	44.000	605.725	605.925
F	15162.388	44.000	605.765	605.980
G	15172.388	44.000	605.802	606.024
H	15182.388	44.000	605.835	606.056
J	15192.388	44.000	605.866	606.076
J	15202.388	44.000	605.893	606.085
K	15212.388	44.000	605.918	606.083
L	15222.388	44.000	605.939	606.069
M	15232.388	44.000	605.957	606.044
N	15242.388	44.000	605.972	606.007
€ .BRG.E.ABUT.	15248.388	44.000	605.979	605.979
BK.EAST ABUT.	15249.683	44.000	605.981	605.961

MODEL: Drawing Views
FILE NAME: pw:/transystems-pw.bentley.comtransyscorp-pw1-hosted/Document/Projects_2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 11.dgn

* 99-2 (K & HB-1-R)

FAU NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	*	WILL	284	164
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET 5-10 OF 5-26

BEAM NO.11				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15100.679	47.136	605.532	605.532
CL.BRG.W.ABUT.	15101.957	47.128	605.539	605.539
A	15111.875	47.070	605.593	605.650
B	15121.793	47.029	605.644	605.749
C	15131.712	47.006	605.693	605.838
D	15141.636	47.000	605.739	605.916
E	15151.636	47.000	605.782	605.982
F	15161.636	47.000	605.822	606.037
G	15171.636	47.000	605.859	606.081
H	15181.636	47.000	605.893	606.113
I	15191.636	47.000	605.924	606.134
J	15201.636	47.000	605.951	606.143
K	15211.636	47.000	605.976	606.141
L	15221.636	47.000	605.997	606.127
M	15231.636	47.000	606.016	606.102
N	15241.636	47.000	606.031	606.066
CL.BRG.E.ABUT.	15247.636	47.000	606.038	606.038
BK.EAST ABUT.	15248.931	47.000	606.040	606.040

BEAM NO.12				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15099.103	53.675	605.654	605.654
CL.BRG.W.ABUT.	15100.379	53.666	605.661	605.661
A	15110.286	53.606	605.716	605.772
B	15120.194	53.562	605.767	605.872
C	15130.101	53.536	605.816	605.961
D	15140.008	53.528	605.862	606.039
E	15150.001	53.528	605.906	606.106
F	15160.001	53.528	605.947	606.162
G	15170.001	53.528	605.984	606.206
H	15180.001	53.528	606.019	606.239
I	15190.001	53.528	606.050	606.260
J	15200.001	53.528	606.078	606.270
K	15210.001	53.528	606.103	606.268
L	15220.001	53.528	606.125	606.255
M	15230.001	53.528	606.144	606.230
N	15240.001	53.528	606.159	606.194
CL.BRG.E.ABUT.	15246.001	53.528	606.167	606.167
BK.EAST ABUT.	15247.295	53.528	606.169	606.169

RIGHT LONGITUDINAL JOINT (E.W.)				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15098.529	56.000	605.697	605.697
CL.BRG.W.ABUT.	15099.803	56.000	605.704	605.704
A	15109.706	56.000	605.760	605.816
B	15119.609	56.000	605.813	605.917
C	15129.512	56.000	605.862	606.007
D	15139.415	56.000	605.909	606.086
E	15149.381	56.000	605.953	606.154
F	15159.381	56.000	605.993	606.210
G	15169.381	56.000	606.031	606.255
H	15179.381	56.000	606.066	606.287
I	15189.381	56.000	606.097	606.309
J	15199.381	56.000	606.125	606.318
K	15209.381	56.000	606.151	606.316
L	15219.381	56.000	606.173	606.302
M	15229.381	56.000	606.192	606.277
N	15239.381	56.000	606.207	606.242
CL.BRG.E.ABUT.	15245.381	56.000	606.215	606.215
BK.EAST ABUT.	15246.676	56.000	606.217	606.217

BEAM NO.13				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15097.530	60.215	605.775	605.775
CL.BRG.W.ABUT.	15098.806	60.206	605.782	605.782
A	15108.701	60.142	605.837	605.894
B	15118.597	60.096	605.889	605.994
C	15128.494	60.067	605.938	606.084
D	15138.390	60.056	605.985	606.162
E	15148.365	60.056	606.029	606.229
F	15158.365	60.056	606.070	606.286
G	15168.365	60.056	606.108	606.330
H	15178.365	60.056	606.143	606.363
I	15188.365	60.056	606.175	606.385
J	15198.365	60.056	606.204	606.395
K	15208.365	60.056	606.229	606.394
L	15218.365	60.056	606.252	606.382
M	15228.365	60.056	606.271	606.358
N	15238.365	60.056	606.287	606.322
CL.BRG.E.ABUT.	15244.365	60.056	606.295	606.295
BK.EAST ABUT.	15245.660	60.056	606.297	606.297

BEAM NO.14				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15095.962	66.755	605.895	605.895
CL.BRG.W.ABUT.	15097.235	66.745	605.902	605.902
A	15107.120	66.679	605.958	606.015
B	15117.005	66.630	606.011	606.116
C	15126.890	66.599	606.062	606.207
D	15136.775	66.584	606.109	606.286
E	15146.730	66.583	606.153	606.353
F	15156.730	66.583	606.195	606.410
G	15166.730	66.583	606.233	606.455
H	15176.730	66.583	606.269	606.489
I	15186.730	66.583	606.301	606.511
J	15196.730	66.583	606.330	606.522
K	15206.730	66.583	606.356	606.521
L	15216.730	66.583	606.379	606.509
M	15226.730	66.583	606.399	606.486
N	15236.730	66.583	606.416	606.451
CL.BRG.E.ABUT.	15242.730	66.583	606.424	606.424
BK.EAST ABUT.	15244.024	66.583	606.426	606.426

RT.CURB LINE (E.B.)				
LOCATION	STATION	OFFSET	THEORET. GRADE ELEVATION	THEORET.GRADE EL. ADJ. FOR D.L. DEFLECTION
BK.WEST ABUT.	15095.649	68.000	605.682	605.682
CL.BRG.W.ABUT.	15096.920	68.000	605.690	605.690
A	15106.803	68.000	605.746	605.803
B	15116.685	68.000	605.800	605.905
C	15126.568	68.000	605.850	605.996
D	15136.451	68.000	605.898	606.074
E	15146.375	68.000	605.942	606.142
F	15156.375	68.000	605.984	606.199
G	15166.375	68.000	606.023	606.245
H	15176.375	68.000	606.058	606.278
I	15186.375	68.000	606.091	606.301
J	15196.375	68.000	606.120	606.312
K	15206.375	68.000	606.146	606.311
L	15216.375	68.000	606.169	606.299
M	15226.375	68.000	606.189	606.276
N	15236.375	68.000	606.206	606.241
CL.BRG.E.ABUT.	15242.375	68.000	606.214	606.214
BK.EAST ABUT.	15243.669	68.000	606.216	606.216

NOTE:
For Deck Elevation Details,
See Sheet S-7

Designed by
FLUOR DANIEL
J.D. No. 836100
Chicago, Illinois 60604
DRAWN: J.S.
CHECKED: J.S.
DATE: 6-25-92

REVISIONS		DECK ELEVATIONS EAST BOUND	
NAME	DATE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SECTION 99-2 (K & HB-1-R) FAI-80 OVER HOUBOLT RD. (FAU-0325) BRIDGE 099-0301 E.B. AND 099-0302 W.B. PHASE II WILL COUNTY	

TRANSYSTEMS

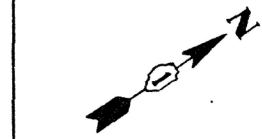
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PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 6/23/2023	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-11 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	569
CONTRACT NO. 62R27				ILLINOIS FED. AID PROJECT



Plan view of the bridge deck showing cross frames (CF), diaphragms (D), and girders (G). The deck is 146'-0" wide, with 131'-0" between the bridge girders and 35'-0" between the bridge girders and the field splice. The bridge is supported by a bridge girder (Brg. W. Abut.) on the left and a bridge girder (Brg. E. Abut.) on the right. The deck is divided into 6 girder spaces, each 24'-4" wide, totaling 146'-0". The deck is also divided into 6 cross frame spaces, each 16'-7" wide, totaling 100'-0". The deck is also divided into 6 diaphragm spaces, each 14'-03'-57" (Typ.) wide, totaling 84'-03'-57". The deck is also divided into 6 cross frame spaces, each 1'-7 7/8" (Typ.) wide, totaling 10'-45'-0". The deck is also divided into 6 diaphragm spaces, each 1'-7 7/8" (Typ.) wide, totaling 10'-45'-0". The deck is also divided into 6 cross frame spaces, each 1'-7 7/8" (Typ.) wide, totaling 10'-45'-0". The deck is also divided into 6 diaphragm spaces, each 1'-7 7/8" (Typ.) wide, totaling 10'-45'-0".

Designed by	
FLUOR DANIEL S	
Job No. 83470C	Chicago, Illinois 60606
DRAWN: C.P.	APPROVED:
DESIGNED: Y.F.	SCALE: 1" = 10'
CHECKED: C.P.	DATE: 5-25-77

		0.24 Span	0.5 Span	0.76 Span
Is	(In ⁴)	54556	91683	54556
Ic (n=27)	(In ⁴)	110917	161728	110917
Ss	(In ³)	1992	3370	1992
Sc (n=9)	(In ³)	2457.4	3886.1	2457.4
Z	(In ³)	-	-	-
Q	(K/ft.)	0.99	0.99	0.99
MP	(K)	1914	2625	1914
sP	(K/ft.)	0.26	0.26	0.26
MsP	(K)	505	693	505
Wt	(K)	1041	1411	1041
W (Imp)	(K)	188	254	188
S _y (W _t + I)	(K)	2048	2775	2048
Ma	(K)	5807	7921	5807
Mu	(K)	-	-	-
f _{st} non-comp (ksi)		11.53	9.35	11.53
f _{st} (comp) (ksi)		2.47	2.14	2.47
f _s (f _t + I) (ksi)		10.00	8.57	10.00
f _s (Overload) (ksi)		24.00	20.06	24.00
f _s (Total) (ksi)		31.20	26.08	31.20
VR	(K)	-	5125	-

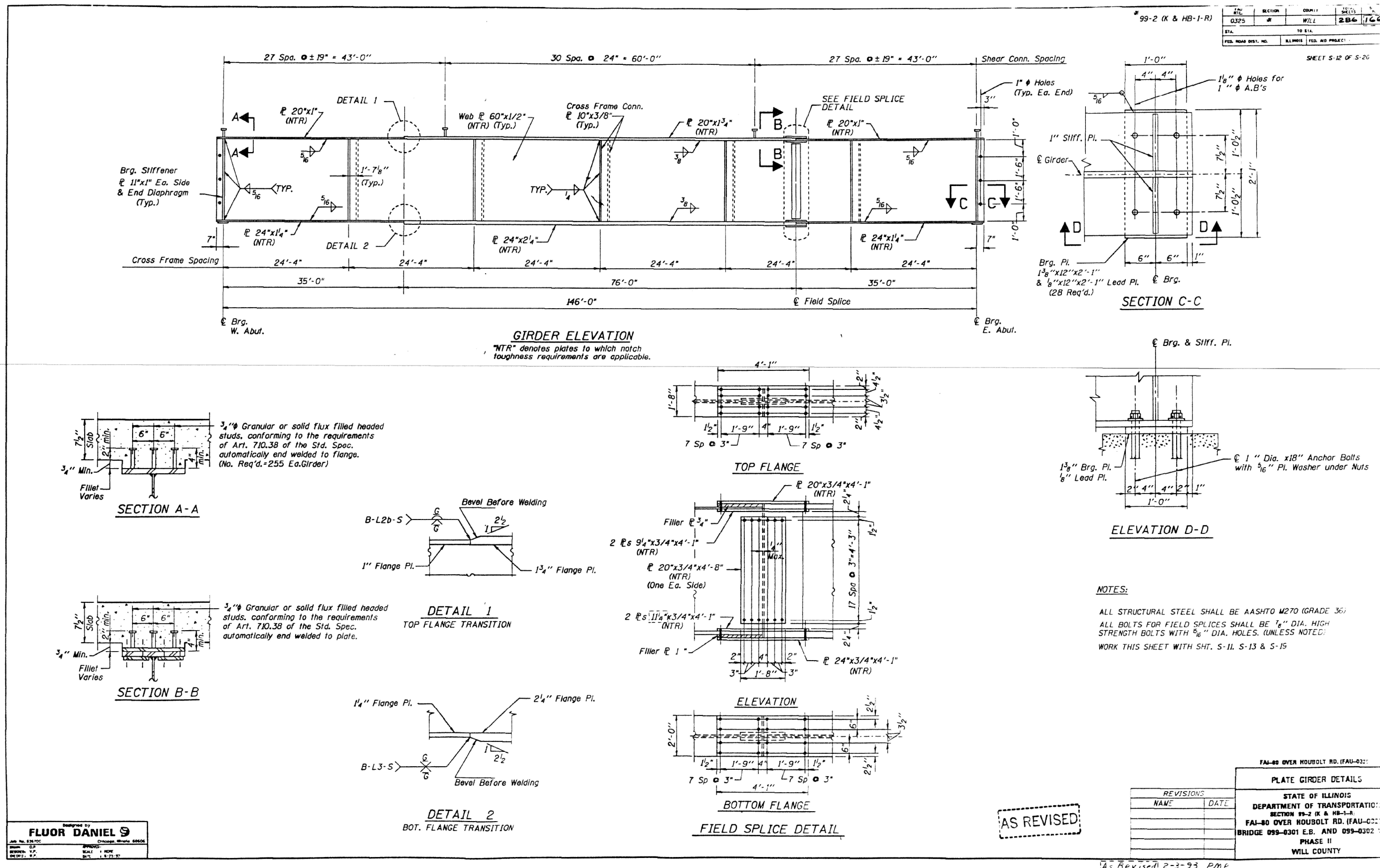
Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).
Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs (Total & Overload).
VR is the maximum live Load + Impact shear range in span.
fs (Overload) is the sum of the stresses due to $W_E + M_{SE} + S_3(W_L + I)$
fs (Total) (Non-compact Section) is the sum of the stresses due to $1.3[W_E + M_{SE} + S_3(W_L + I)]$
 M_a (Applied Moment) = $1.3[W_E + M_{SE} + S_3(W_L + I)]$
 W_E - Moment due to dead loads.
 M_{SE} - Moment due to future wearing surface & parapet load.
 W_L - Moment due to live load
 I - Live load Impact

ITEM	UNIT	QUANTITY
FURNISHING AND ERECTING STRUCTURAL STEEL	L. SUM	1

REVISIONS	
NAME	DATE

**FRAMING PLAN
WEST AND EAST BOUND**

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION 99-2 (K & HB-1-R)
FAI-80 OVER HOUBOLT RD. (FAU-0325)
SN 099-0301 E.B. AND 099-0302 W.B.
PHASE II
WILL COUNTY**



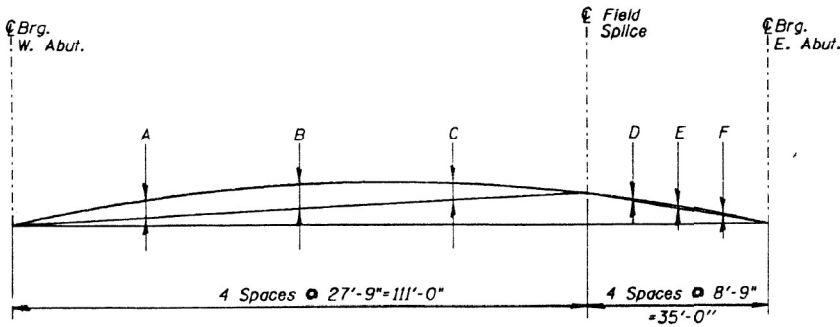
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FILE NAME: pw://transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects/2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 14.dgn

TOP OF WEB ELEVATIONS

GIRDER NO.	℄ Brg. W. Abut.	℄ Splice	℄ Brg. E. Abut.
1	604.173	604.701	604.547
2	604.296	604.830	604.677
3	604.418	604.958	604.807
4	604.541	605.086	604.937
5	604.664	605.214	605.067
6	604.785	605.341	605.196
7	604.907	605.470	605.327
8	604.173	604.782	604.651
9	604.296	604.909	604.781
10	604.418	605.036	604.910
11	604.539	605.162	605.038
12	604.661	605.290	605.167
13	604.782	605.416	605.295
14	604.902	605.545	605.424

TABLE OF CAMBER DIMENSIONS

A	B	C	D	E	F
1 3/4"	2 7/16"	1 5/16"	1/4"	5/16"	3/16"

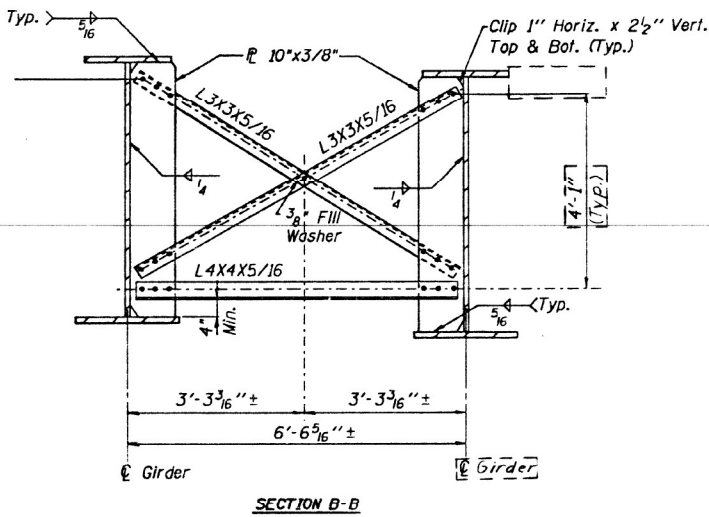
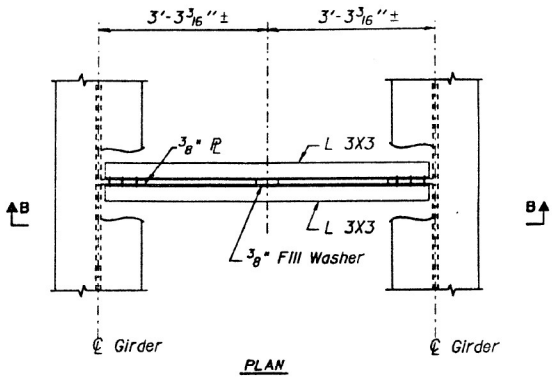


CAMBER DIAGRAM

Designed by
FLUOR DANIEL

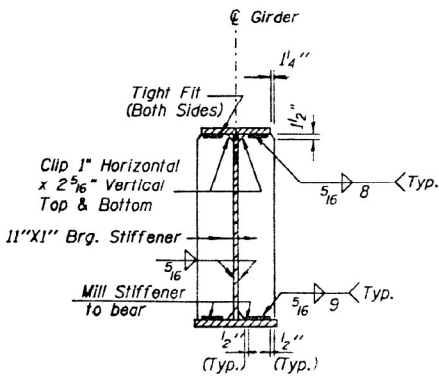
Job No. 099-0301
Drawn: J.S.
Checked: J.P./J.L.
Date: 6/23/2023

Chicago, Illinois 60606
Scale: NONE
Title: 5-13-23

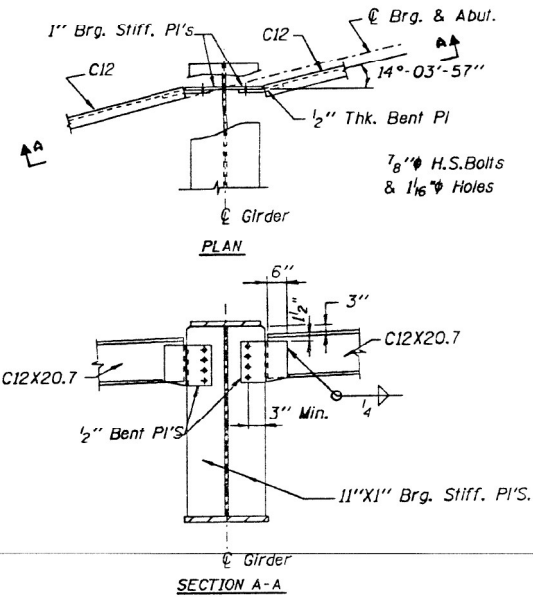


TYPICAL INTERIOR CROSS FRAME-CF

CF=60 Req'd.



BEARING STIFFENER DETAIL



TYPICAL END DIAPHRAGM - D

D=24 Req'd.

Anchor Bolts shall be set before bolting Diaphragms.

NOTES:

- ALL STRUCTURAL STEEL SHALL BE AASHTO M270 (grade 35)
- ALL BOLTS SHALL BE 7/8" DIA. H.S. BOLTS WITH 1 1/16" DIA. HOLES. TWO HARDENED WASHERS SHALL BE REQUIRED OVER ALL OVERSIZE HOLES.
- WORK THIS SHEET WITH SHT. 5-11 & 5-12

AS REVISED

REVISIONS	
NAME	DATE

PLATE GIRDER, CROSS FRAME
AND END DIAPHRAGM DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION 99-2 (K & HB-1-R)
FAI-80 OVER HOUBOLT RD. (FAU-0325
SN 099-0301 E.B. & 099-0302 W.B.
PHASE II
WILL COUNTY

As Revised 2-3-93 PMF

TRANSYSTEMS

USER NAME = amkluver	DESIGNED -	REVISED -
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 6/23/2023	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

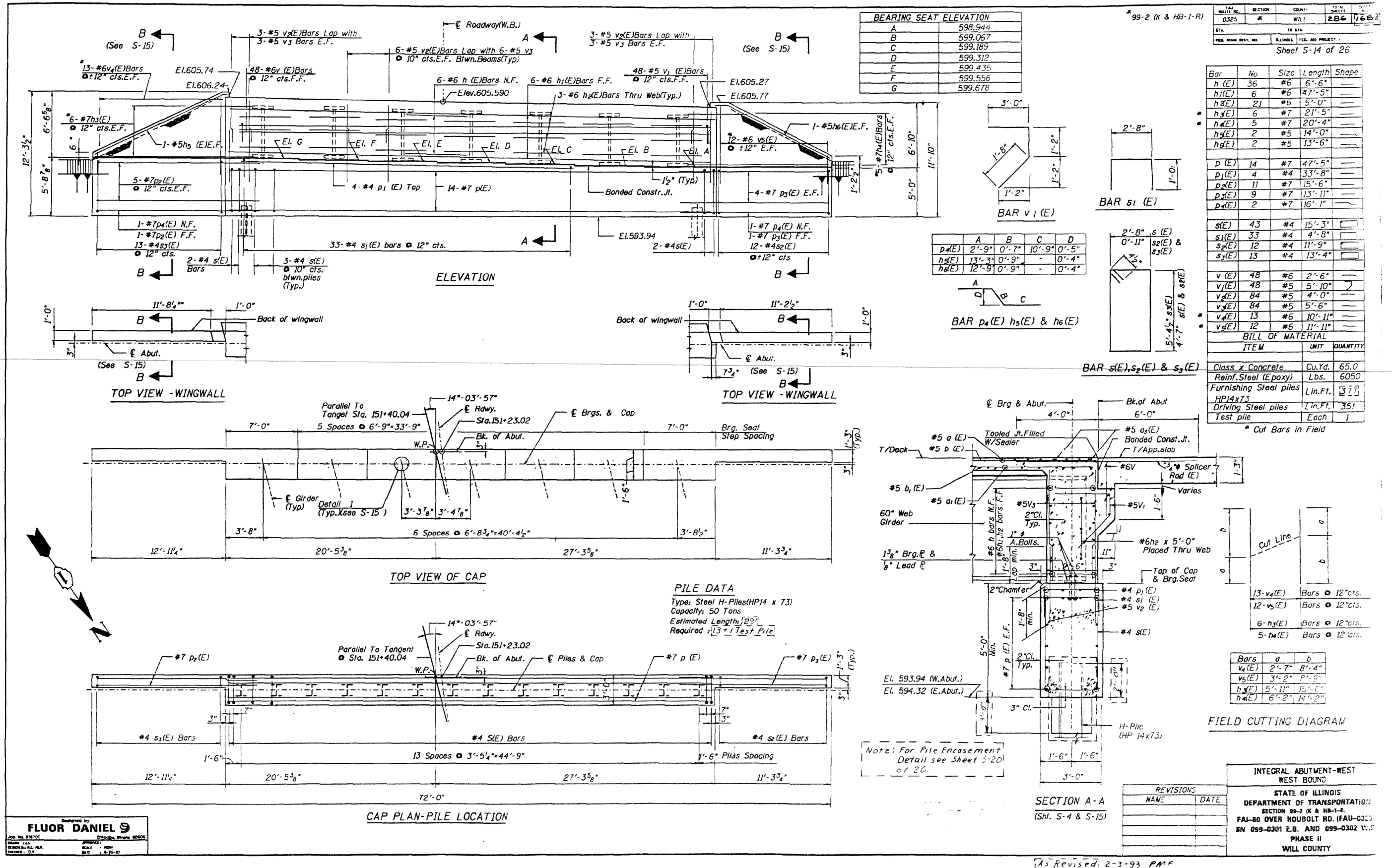
SHEET SE1-14 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	572

CONTRACT NO. 62R27

ILLINOIS FED. AID PROJECT

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TRANSYSTEMS

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PLOT SCALE	=	NTS	CHECKED	-	REVISED	-
PLOT DATE	=	6/23/2023	DRAWN	-	REVISED	-
			CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-15 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	573
				CONTRACT NO. 62R27
ILLINOIS FED. AID PROJECT				

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TRANSYSTEMS

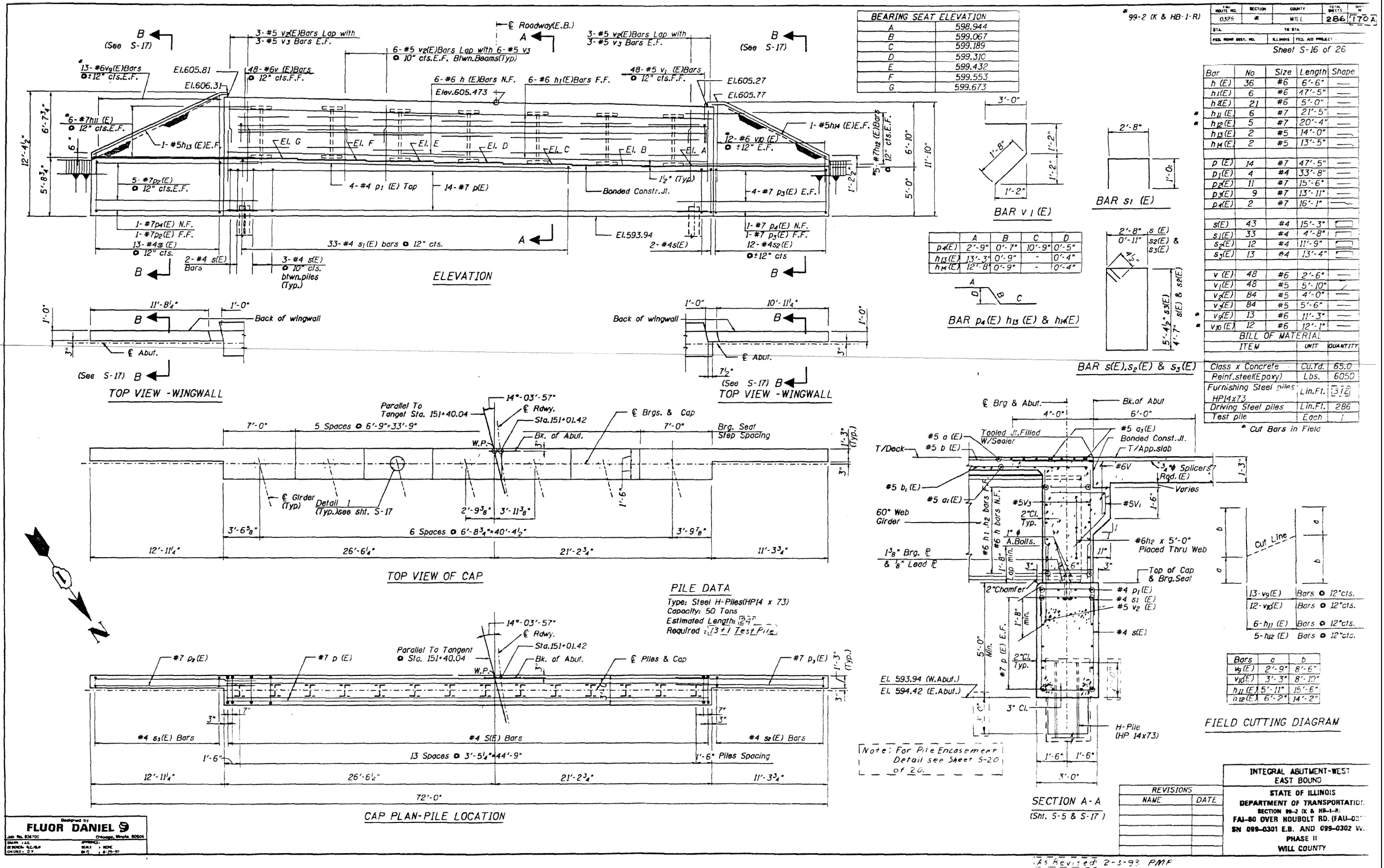
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

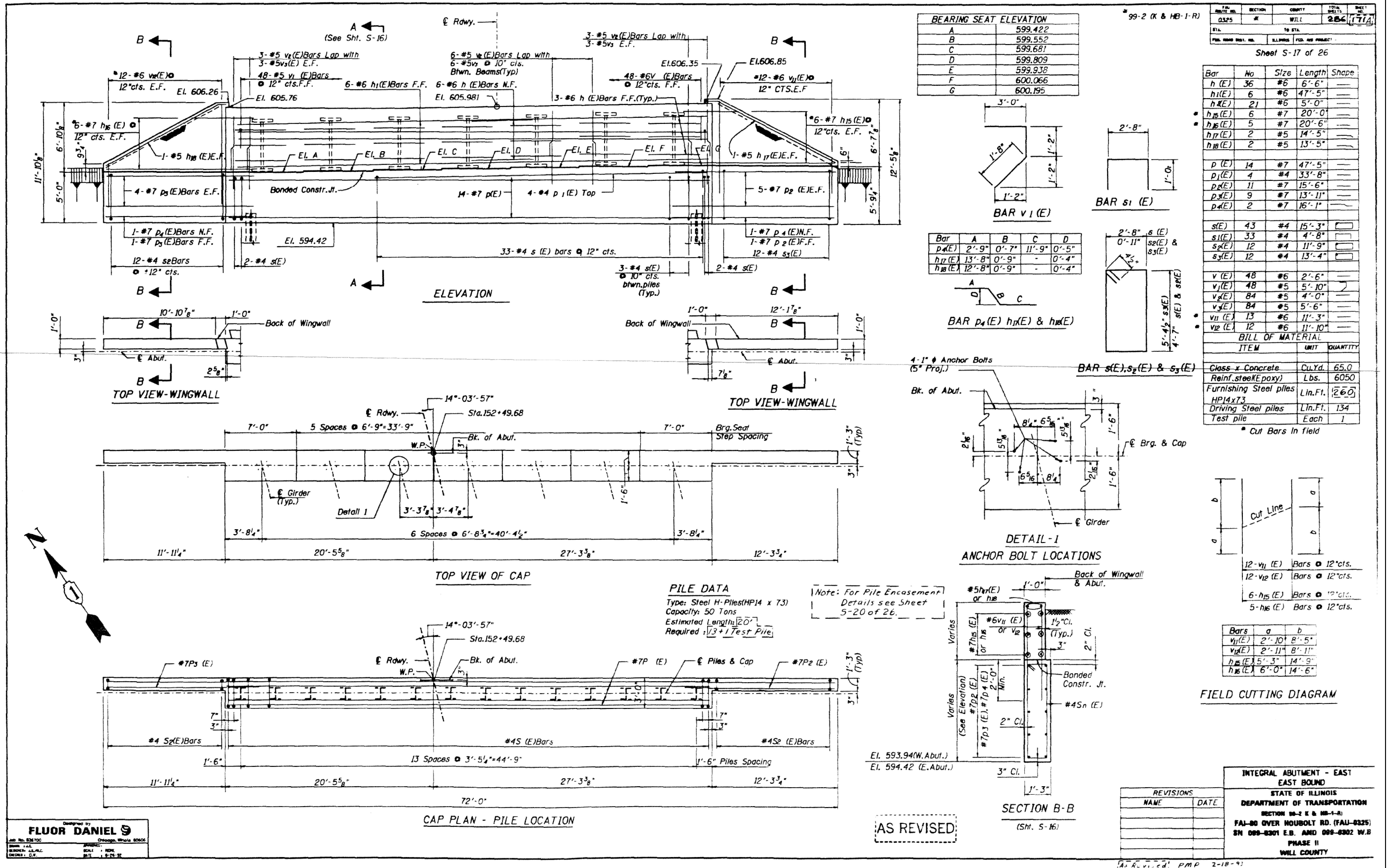
EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-17 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	575
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				



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TRANSYSTEMS

USER NAME	= amkluver	DESIGNED	-	REVISED	-
PLOT SCALE	= NTS	CHECKED	-	REVISED	-
PLOT DATE	= 6/23/2023	DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-18 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	576
		CONTRACT NO. 62R27		
		ILLINOIS FED. AID PROJECT		

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* 99-2 (K & HB-1-R)

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	*	WILL	286	172
ETA.		TO ETA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET S-18 OF S-26

The diameter of this part of Splicer is the same as the diameter of the bar spliced.

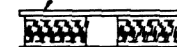
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



ONE PIECE

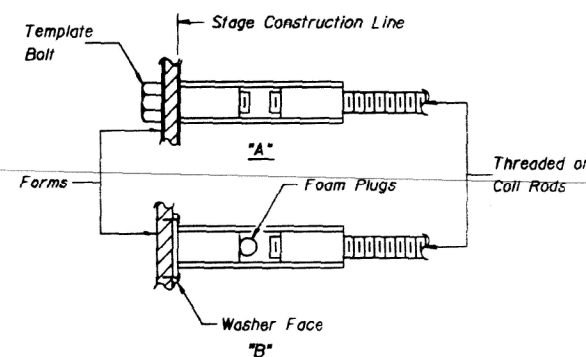
Wire Connector



WELDED SECTIONS

SPLICER ALTERNATIVES

Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

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

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

(E) : Indicates epoxy coating.

NOTES

Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or rolled full length and have effective tensile stress area equal to or greater than that of the lapped reinforcement bars.

All reinforcement bars shall be lapped and tied to the splicer rods.

Splicer (coupler) assembly in the slab shall be epoxy coated in accordance with the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

- Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_l$
- Minimum Pull-out Strength (Tension in kips) = $1.25 \times f_{allow} \times A_l$

Where f_y = Yield strength of lapped reinforcement bars in ksi.

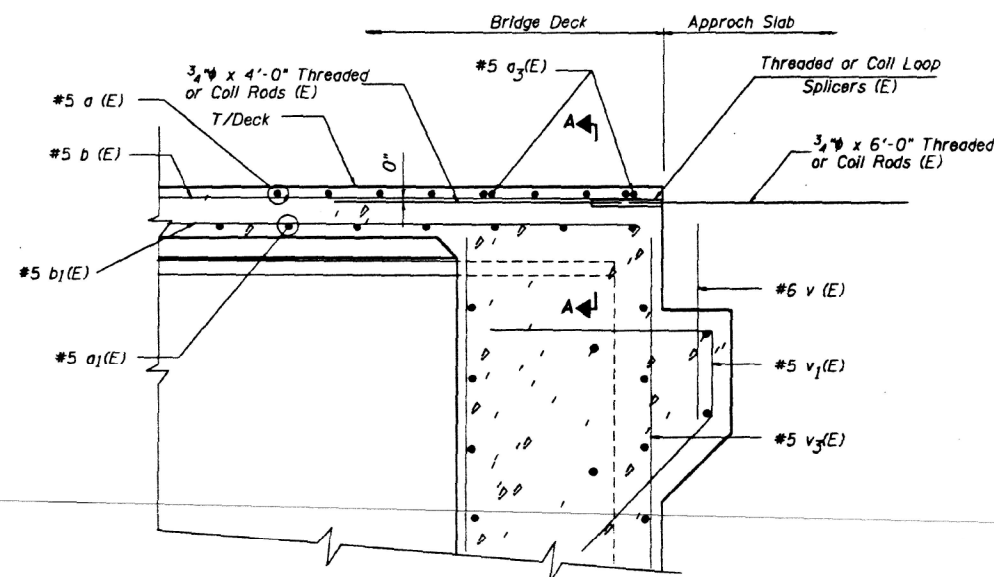
f_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

A_l = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

Typical Splicer (Coupler) Assembly Sizes:

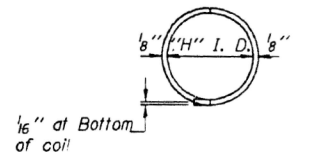
In Slabs	#5 bar lap with 3/4" Splicer (Coupler) x 2'-0" Splicer Rods	Minimum Capacity = 23.0 kips-tension
		Minimum Pull-out Strength = 9.2 kips-tension
In Sub-Structure	#7 bar lap with 1" Splicer (Coupler) x 3'-5" Splicer Rods	Minimum Capacity = 45.1 kips-tension
		Minimum Pull-out Strength = 18.0 kips-tension
	#8 bar lap with 1 1/4" Splicer (Coupler) x 4'-6" Splicer Rods	Minimum Capacity = 58.9 kips-tension
		Minimum Pull-out Strength = 23.6 kips-tension



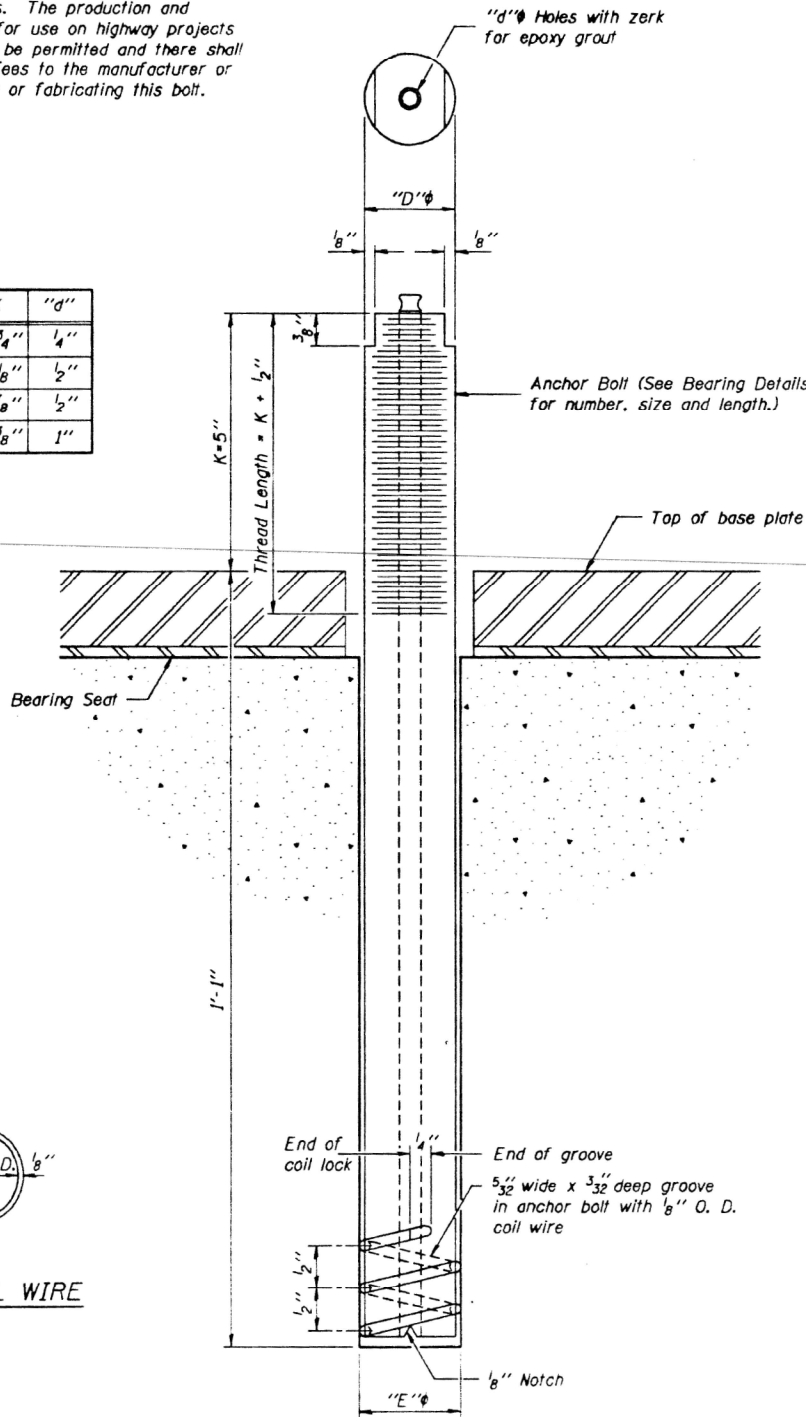
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The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	3 1/16"	1 3/4"	1/4"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



PLAN-COIL WIRE



ILLINOIS COIL-LOCK ANCHOR BOLT

Designed by
FLUOR DANIEL
Job No. 831702 Chicago, Illinois 60604
Drawn: CLK/DFM
Checked: CLK
Scale: None
Date: 1-5-75-97

MATERIALS FOR ILLINOIS COIL-LOCK

ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A519, Grade 1026 and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C881, Type I, Grade I and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS

COIL-LOCK ANCHOR BOLT

- With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
- Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes in accordance with the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

- A threaded rod stud with nut and washer conforming to ASTM A307.
- A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

* 99-2 (K & HB-1-R)

FAU	SECTION	COUNTY	TOTAL	SHEET
0325	W	WILL	284	173
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHT. 5-19 OF 5-26

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or in accordance with the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

The anchor bolts, furnished and installed including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

WORK THIS SHEET WITH SHT. 5-12

REVISIONS	
NAME	DATE

ANCHOR BOLT DETAILS FOR BEARINGS	
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	
SECTION 99-2 (K & HB-1-R)	
FAI-80 OVER HOUBOLT RD. (FAU-0325	
SN 099-0301 E.B. AND 099-0302 W.E.	
PHASE II	
WILL COUNTY	

TRANSYSTEMS

USER NAME	= amkluver	DESIGNED	-	REVISED	-
PLOT SCALE	= NTS	CHECKED	-	REVISED	-
PLOT DATE	= 6/23/2023	DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

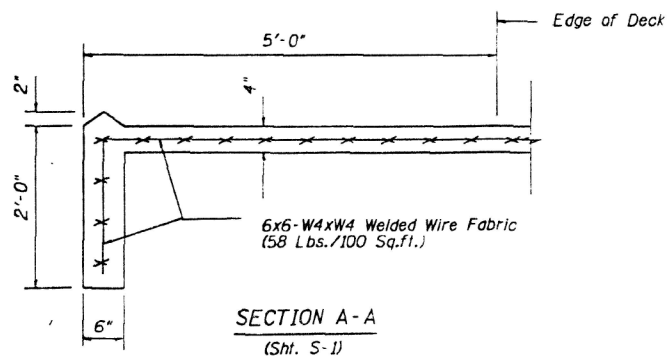
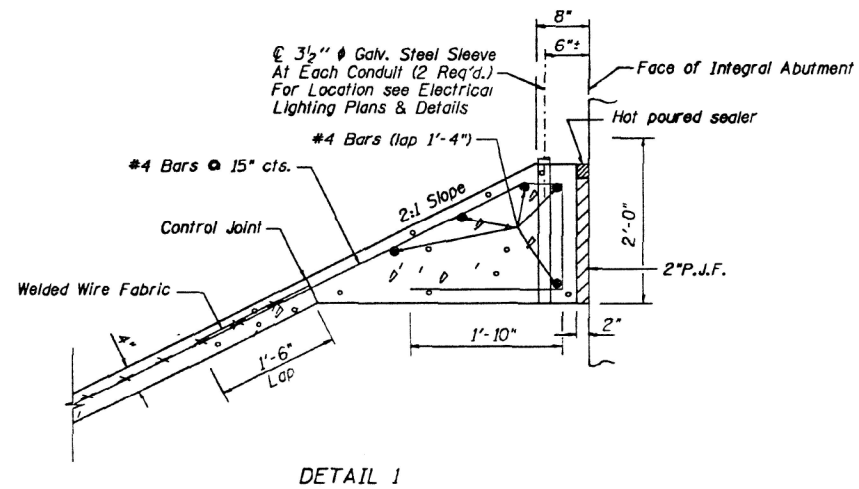
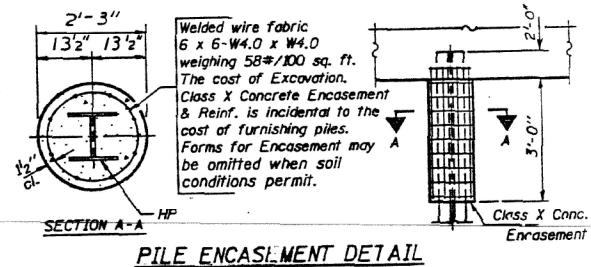
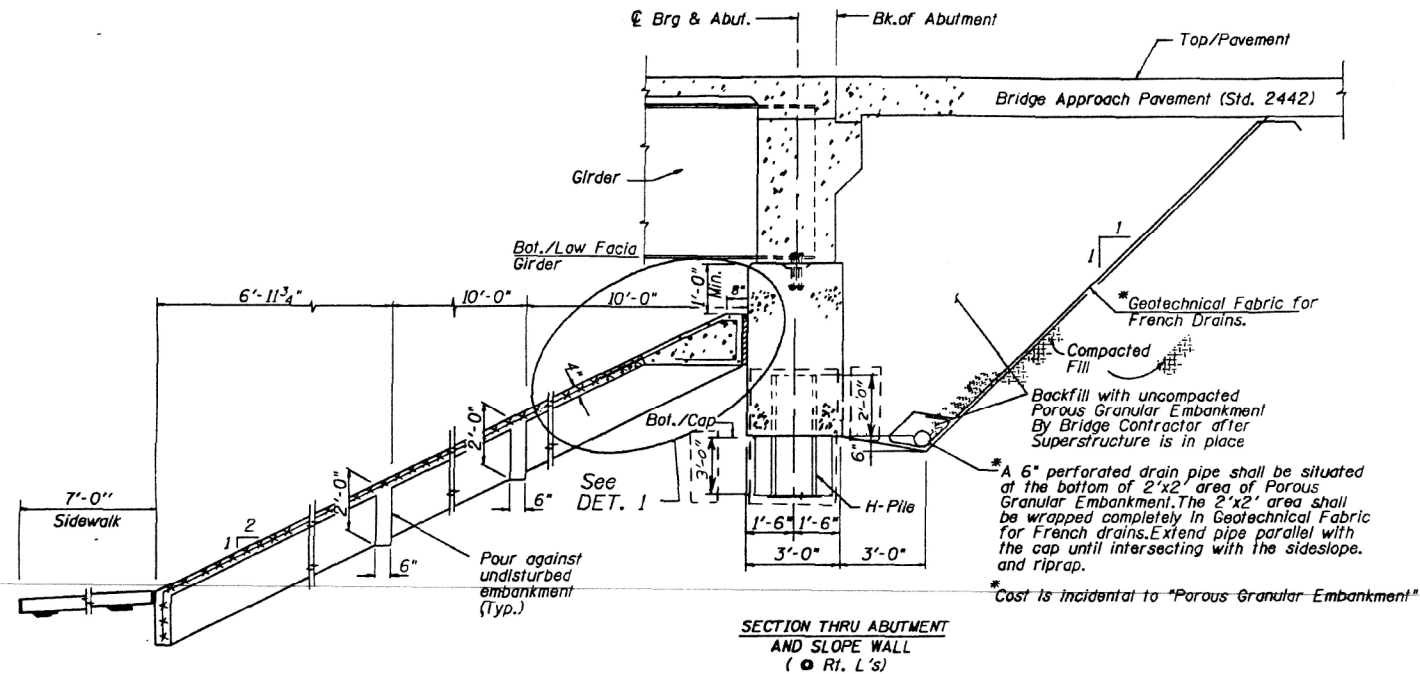
SHEET SE1-20 OF SE1-48 SHEETS

F.A.I.	SECTION	COUNTY	TOTAL	SHEET
RTE.			SHEETS	NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	578
				CONTRACT NO. 62R27
		ILLINOIS	FED. AID PROJECT	

MODEL: Drawing Views
FILE NAME: pw:/transsystems-pw-bentley.com/transsystems-pw-1-hosted/Drawings/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 21.dgn

* 99-2 (K & HB-1-R)

SECTION	DATE	BY	CHKD	APP'D
0325	*	WILL	286	1774
STA.	TO STA.			
FED. ROAD DIST. NO.	ILL. PROJ.	FED. AID PROJECT	SHEET S-20 OF 5	



BILL OF MATERIAL

SN 099-0301 E.B. AND SN 099-0302 W.B.

ITEM	UNIT	QUANTITY
POROUS GRANULAR EMBANKMENT	CU. YD.	67E
SLOPE WALL 4 IN.	SQ. YD.	51E

AS REVISED

REVISIONS	
NAME	DATE

MISCELLANEOUS DETAILS	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SECTION 99-2 (K & HB-1-R) FAI-80 OVER HOUBOLT RD. (FAI-037) BRIDGE 099-0301 E.B. AND 099-0302 PHASE II WILL COUNTY	

As Revised 2-3-93 PMF

TRANSYSTEMS

USER NAME = amkluver	DESIGNED -	REVISED -
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 6/23/2023	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

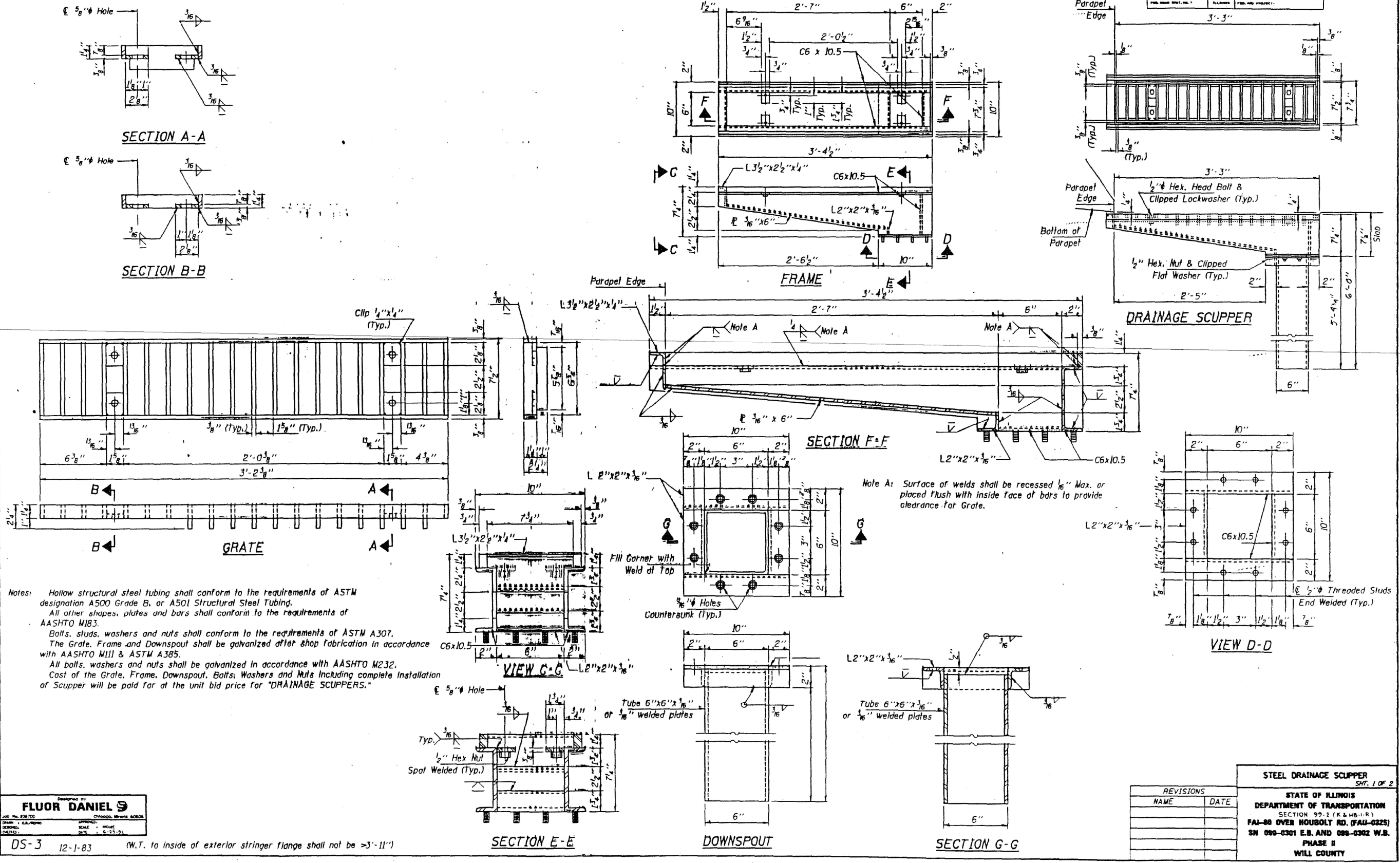
SHEET SE1-21 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	579
				CONTRACT NO. 62R27
ILLINOIS FED. AID PROJECT				

MODEL: Drawing Views
FILE NAME: pw:\transystems-pw\1-hosted\Documents\Projects_2018\CH401\401180022\02-Transystems\CAD\62R27\Sheets\23-Structural\099-0301 & 099-0302 Existing\0990301EX-62R27-001-Existing Plans 23.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

99-2 (K&H-B-I-R)	SECTION	COUNTY	DATE	SHEET NO. 5-22
099-0301	WILL	286	176	OF SHEETS 5-26
FILE NAME: 099-0301 EX-62R27-001-Existing Plans 23.dgn	DESIGNED BY	DRAWN BY	CHECKED BY	DATE



TRANSYSTEMS

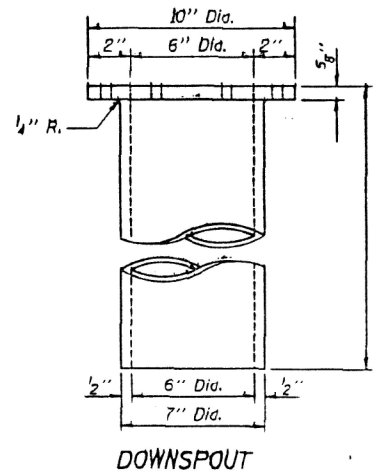
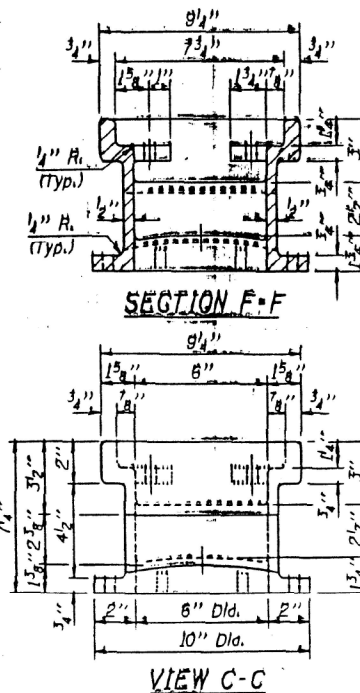
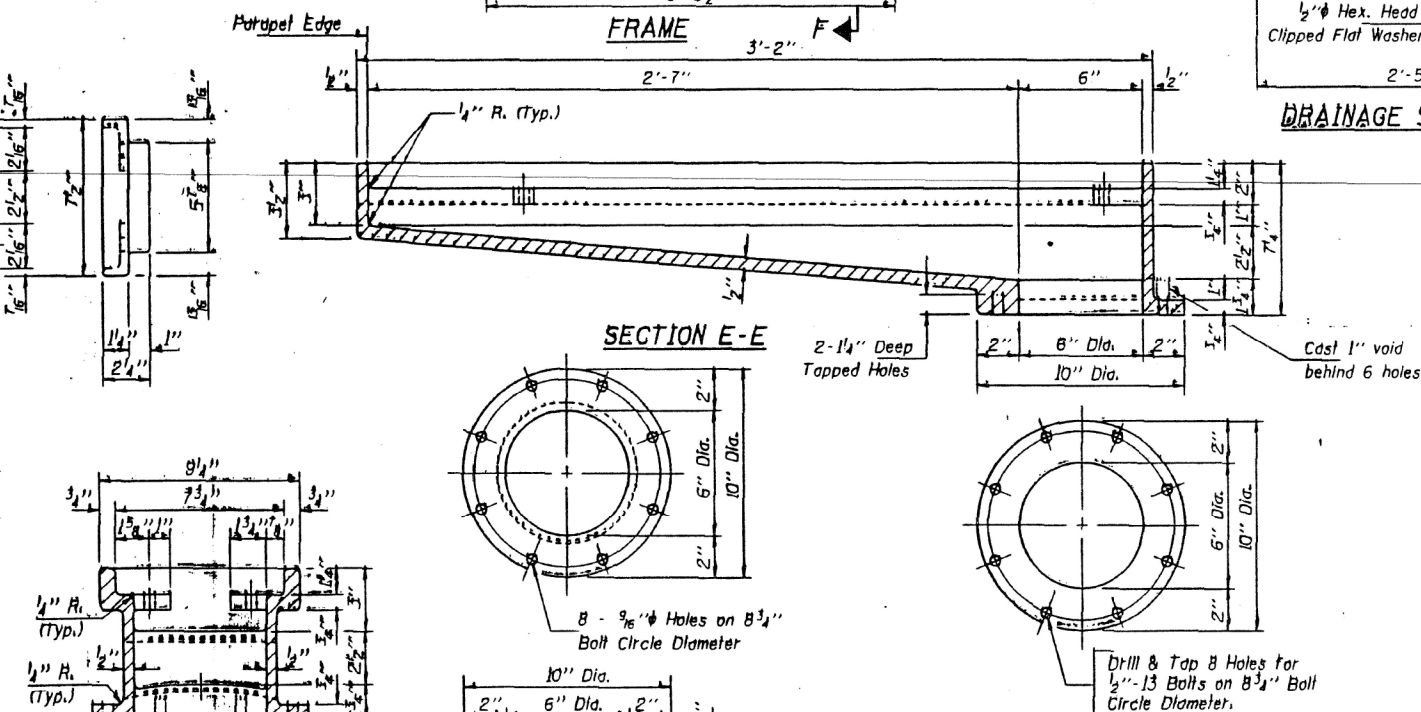
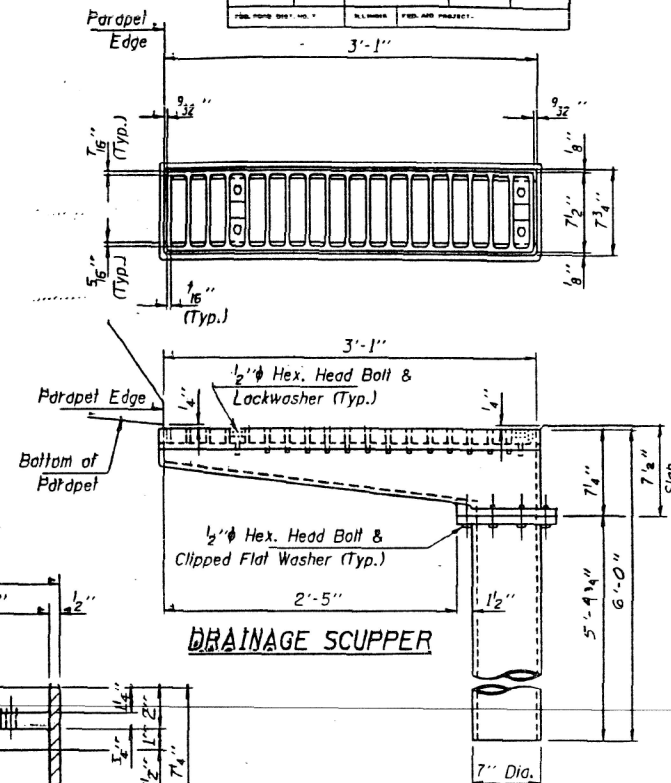
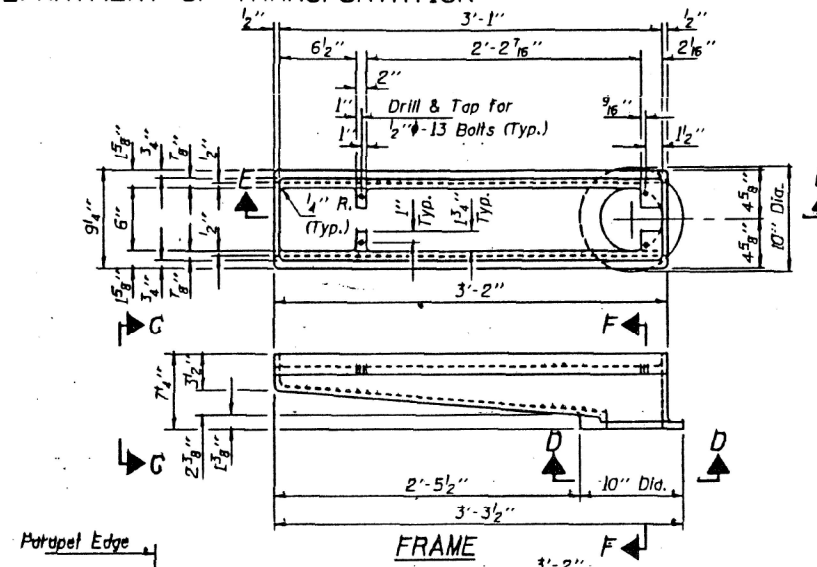
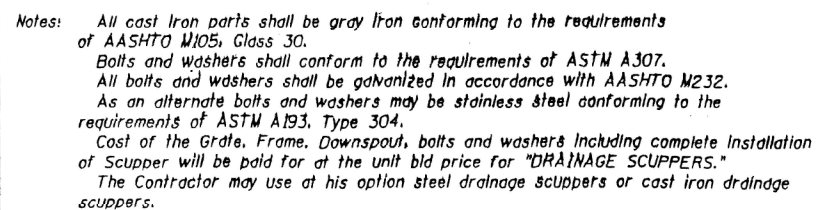
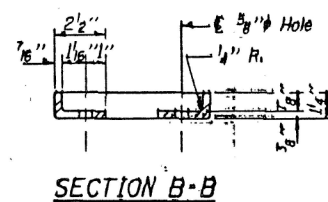
USER NAME	amkluver	DESIGNED	-	REVISED	-
PLOT SCALE	NTS	CHECKED	-	REVISED	-
PLOT DATE	6/23/2023	DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-23 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	581
CONTRACT NO. 62R27				ILLINOIS FED. AID PROJECT



REVISIONS	
NAME	DATE

ALTERNATE - CAST IRON
DRAINAGE SCUPPER SHT. 2 OF 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION 99-2 (K & MB-1-R)
FAI-90 OVER HOUBOLT RD. (FAU-6325)
SN 099-0301 E.B. AND 099-0302 W.B.
PHASE II
WILL COUNTY

USER NAME = amkluver	DESIGNED -
	CHECKED -
PLOT SCALE = NTS	DRAWN -
PLOT DATE = 6/23/2023	CHECKED -

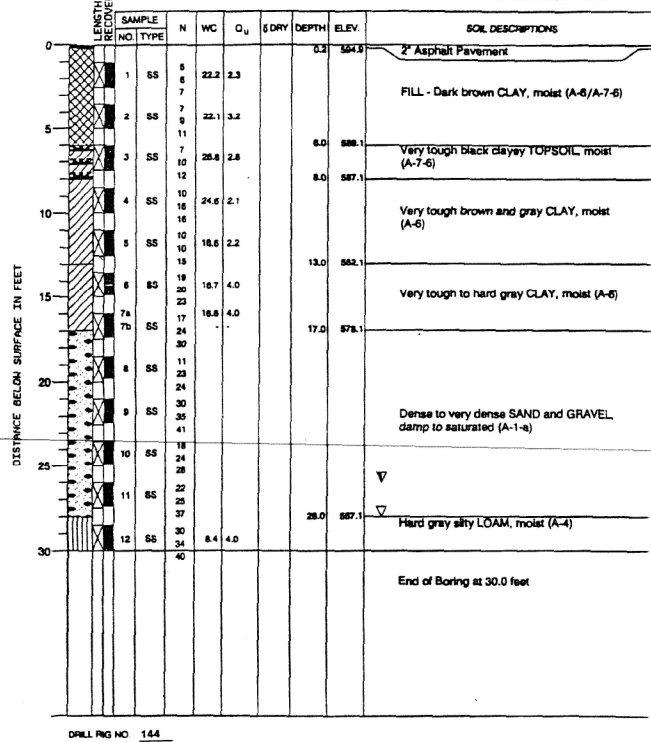
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

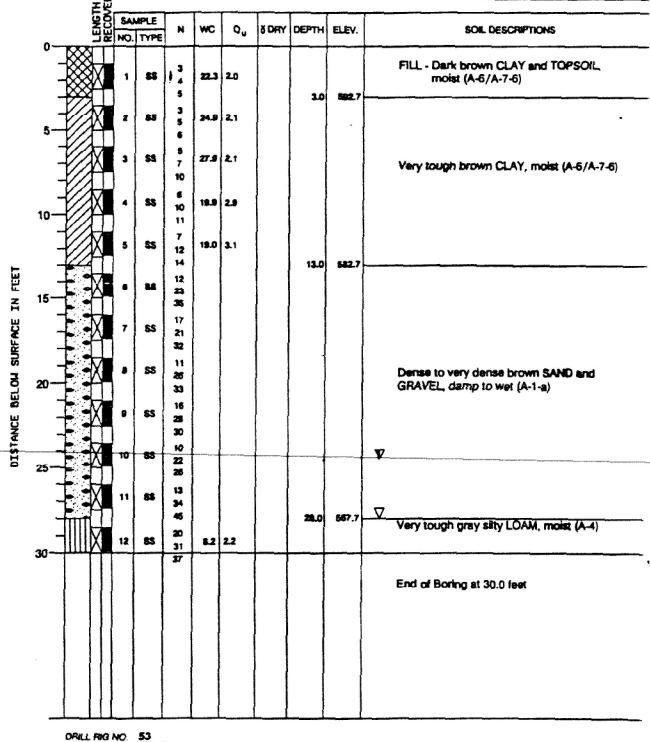
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MODEL: Drawing Views
FILE NAME: pw:/transystems-pw-bentley.comtransyscorp-pw1-hosted/Documents/Projects/2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 25.dgn

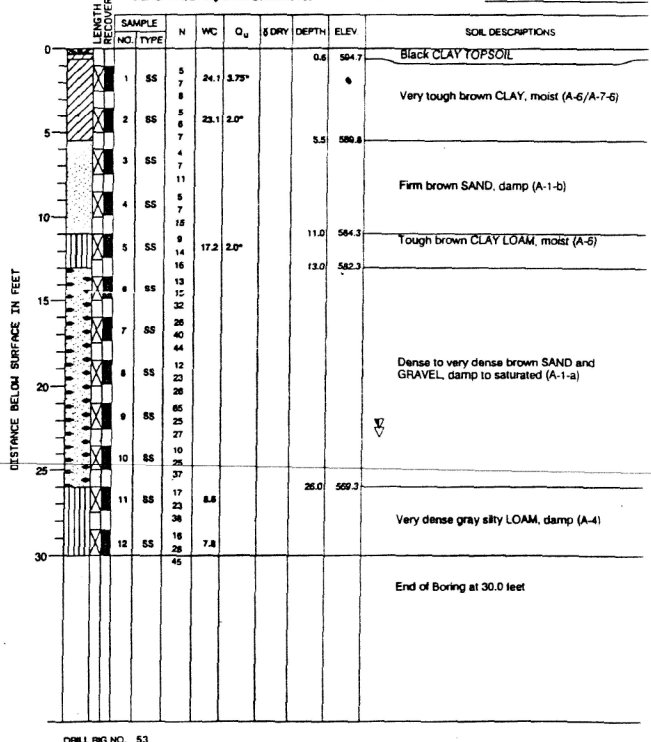
PROJECT I-80 Bridge Abutments at Houbolt Rd., Will County, IL
CLIENT Knight Architects, Engineers & Planners, Inc. Chicago, Illinois
BORING SB-1 DATE STARTED 7-19-91 DATE COMPLETED 7-19-91 JOB L-29,027
ELEVATIONS
GROUND SURFACE 585.1
END OF BORING 585.1
WATER TABLE
WHILE DRILLING 28.0 feet
AT END OF BORING 28.0 feet
24 HOURS



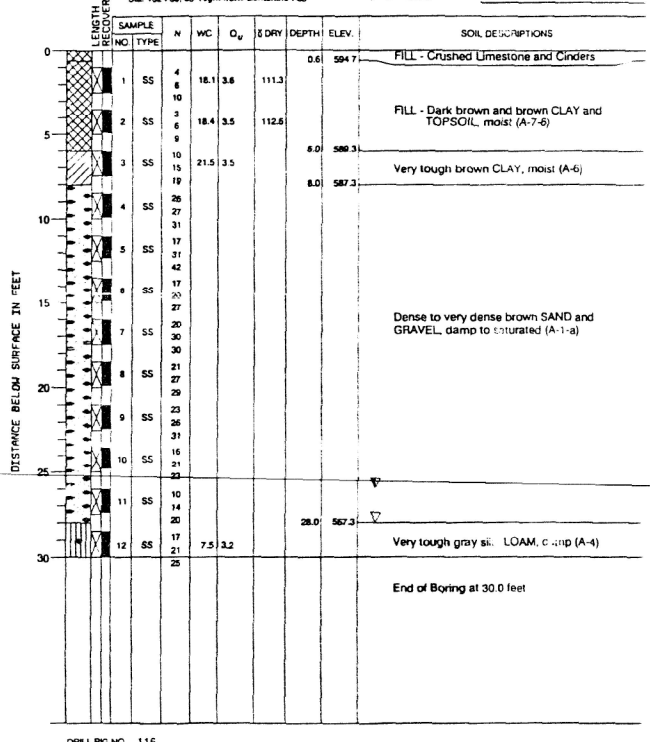
PROJECT I-80 Bridge Abutments at Houbolt Rd., Will County, IL
CLIENT Knight Architects, Engineers & Planners, Inc. Chicago, Illinois
BORING SB-2 DATE STARTED 7-19-91 DATE COMPLETED 7-19-91 JOB L-29,027
ELEVATIONS
GROUND SURFACE 585.7
END OF BORING 585.7
WATER TABLE
WHILE DRILLING 24.8 feet
AT END OF BORING 28.0 feet
24 HOURS



PROJECT I-80 Bridge Abutments at Houbolt Rd., Will County, IL
CLIENT Knight Architects, Engineers & Planners, Inc. Chicago, Illinois
BORING SB-3 DATE STARTED 7-19-91 DATE COMPLETED 7-19-91 JOB L-29,027
ELEVATIONS
GROUND SURFACE 585.3
END OF BORING 585.3
WATER TABLE
WHILE DRILLING 22.5 feet
AT END OF BORING 23.0 feet
24 HOURS



PROJECT I-80 Bridge Abutments at Houbolt Rd., Will County, IL
CLIENT Knight Architects, Engineers & Planners, Inc. Chicago, Illinois
BORING SB-4 DATE STARTED 7-17-91 DATE COMPLETED 7-17-91 JOB L-29,027
ELEVATIONS
GROUND SURFACE 589.3
END OF BORING 585.3
WATER TABLE
WHILE DRILLING 26.0 feet
AT END OF BORING 28.0 feet
24 HOURS



NOTE:
See Sheet 5-1 for Location of Boring Logs.

DESIGNED BY
FLUOR DANIEL
CHECKED BY
DATE 6-22-92

REVISION		SOIL BORING LOGS	
NAME	DATE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SECTION 99-2 (K & HB-1-R) FAI-80 OVER HOUBOLT RD. (FAU-0325) SN 099-0301 E.B. AND 099-0302 W.B. PHASE II WILL COUNTY	

TRANSYSTEMS

USER NAME = amkluver	DESIGNED -	REVISED -
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 6/23/2023	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-25 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	583
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

62082 #126 6-15-01 FAI 80 WILL SEC. (99[1,2,3,4] & 4-1) RS-7 IER

126

99.9%
10-11-2001

FOR INDEX OF SHEETS, SEE SHEET NO. 2

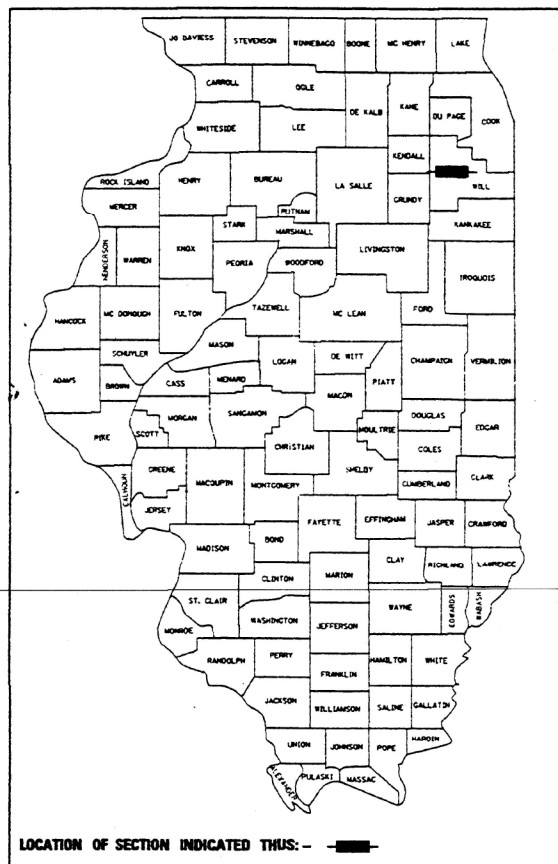
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.I. ROUTE 80 (INTERSTATE 80)
GRUNDY COUNTY LINE TO ROWELL STREET
RESURFACING (MAINT.) & BRIDGE REPAIRS
SECTION (99 [1,2,3,4] & 4-1) RS-7
C-91-507-00
WILL COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		WILL	82	1
ILLINOIS				

• 99 (1,2,3,4 & 4-1) RS-7
0-91-507-00

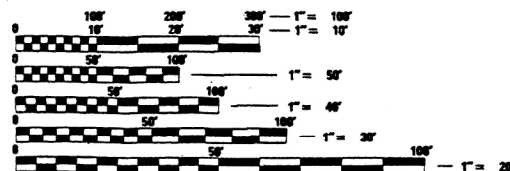


END RESURFACING
STA. 379+50.00

END IMPROVEMENT
STA. 456+00.00

BEGIN IMPROVEMENT
& RESURFACING
STA. 1791+65.00

THIS IMPROVEMENT IS LOCATED WITHIN
ROCKDALE AND JOLIET



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.J.L.L.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

TRAFFIC DATA
INTERSTATE 80
WEST OF LARKIN AVE.
1999 ADT = 35,000
SPEED LIMIT: 55 MPH

TRAFFIC DATA
INTERSTATE 80
EAST OF LARKIN AVE.
1999 ADT = 74,500
SPEED LIMIT: 45-55 MPH

LOCATION MAP
GROSS LENGTH OF SECTION = 47,342.55 LF = 8.966 MILES
NET LENGTH OF SECTION = 44,479 LF = 8.424 MILES

MAP SCALE
1"=6000'

STATION EQUATIONS
1971+00 BK = 85+74.14 AH
276+69.36 BK = 277+97.90 AH
342+96.07 BK = 343+45.06 AH

PATRICK ENGINEERING, INC.
TED W. LACHUS, P.E.
• 062-040941

4-10-01
DATE:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED April 12, 2001
John P. Kim DISTRICT ENGINEER
May 11, 2001
Michael R. Kim ENGINEER OF DESIGN AND ENVIRONMENT
May 11, 2001
Director, Division of Highways

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

1-275

099-0301 & -0302

DISTRICT 1 - DESIGN AND PLAN PREPARATION ENGINEER : K. ENG / M. GOMEZ (847) 705 - 4432

TRANSYSTEMS

USER NAME = amkluver	DESIGNED -	REVISED -
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 6/23/2023	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-26 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	584
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

MODEL: Drawing Views
FILE NAME: pw:\transystems-pw\transystems-pw\1-hosted\Documents\Projects_2018\CH401\401180022\02-Transystems\CAD\62R27\Sheets\23-Structural\099-0301 & 099-0302 Existing\0990301EX-62R27-001-Existing Plans 27.dgn

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Mon Apr 9 07:15:07 2001
c:\projects\structural\1-80-01.m32 LV=13,15-63

TRANSYSTEMS

USER NAME	=	amkluver	DESIGNED	-	REVISED	-
PLOT SCALE	=	NTS	CHECKED	-	REVISED	-
PLOT DATE	=	6/23/2023	DRAWN	-	REVISED	-
			CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-27 OF SE1-48 SHEETS

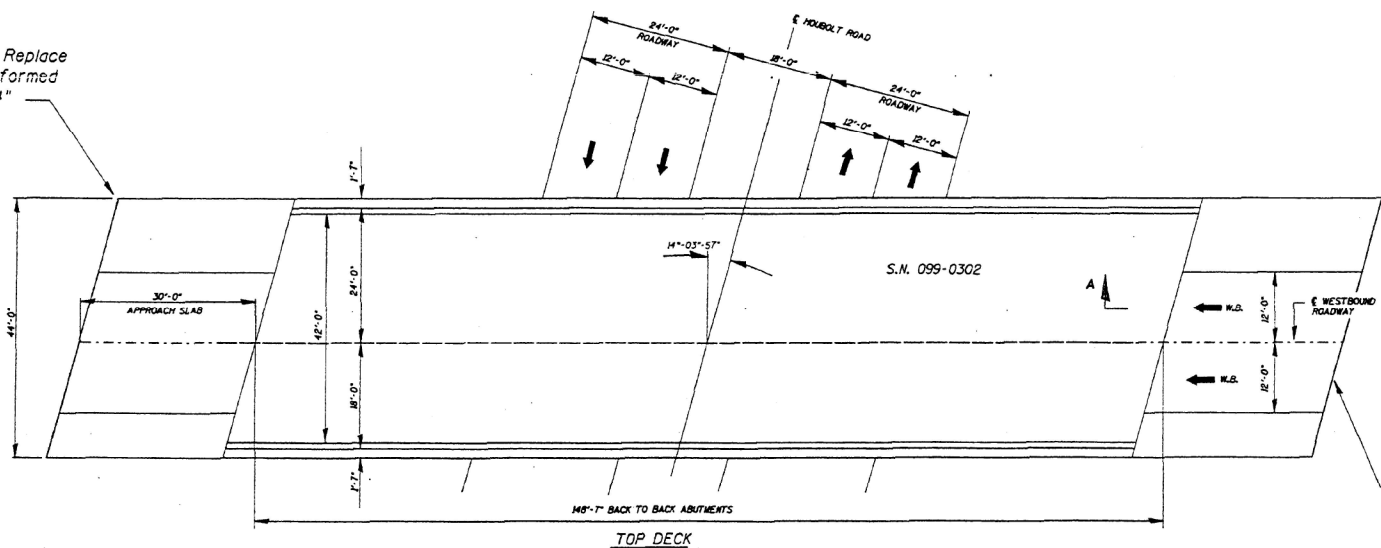
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	585
ILLINOIS				FED. AID PROJECT

Sheet S1 of S1

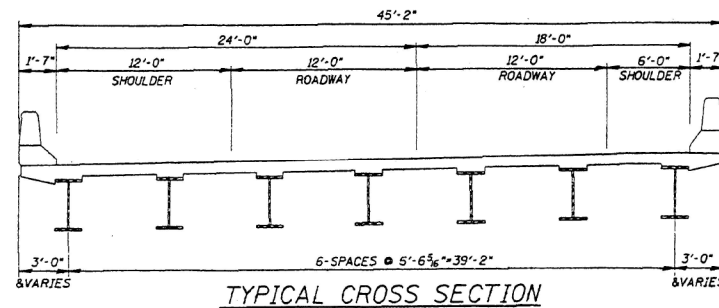
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	WILL	82	53
STA.	TO STA.			
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT		

* 99 (1, 2, 3, 4 & 4-1)RS-7

Remove and Replace
Existing Preformed
Joint Seal, 4"
(See Detail)



Remove and Replace
Existing Preformed
Joint Seal, 4"
(See Detail)

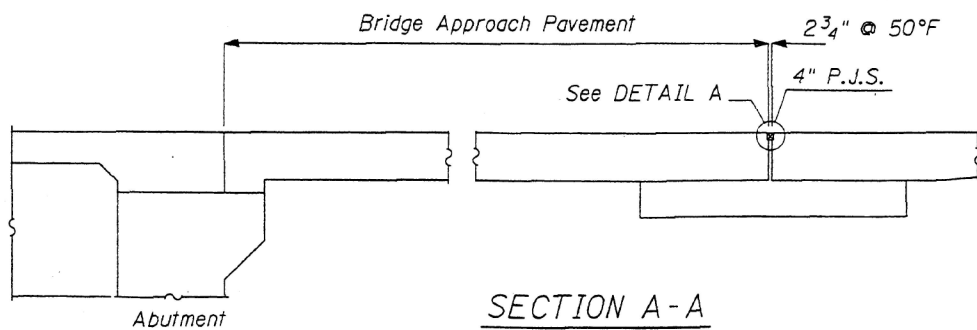


GENERAL NOTES

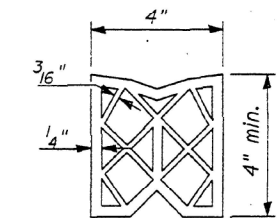
PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSION AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID PRICE OR THE WORK.

TOTAL BILL OF MATERIALS - BRIDGE

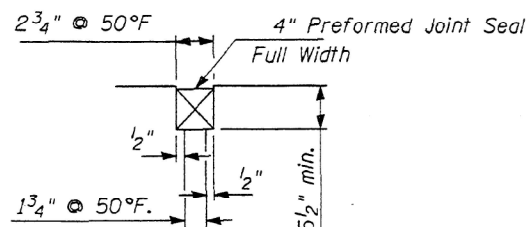
ITEM	UNIT	QUANTITY
Preformed Joint Seal, 4"	Foot	90.7



SECTION A-A



PREFORMED JOINT SEAL



DETAIL A

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSTATE RTE. 80 OVER
HOUBOLT ROAD
S.N. 099-0302 (EASTBOUND)
S.N. 099-0301 (WESTBOUND)

SCALE: NONE
DATE 4/9/01

DRAWN BY MVT
CHECKED BY TMS

MODEL: Drawing Views
FILE NAME: pw://transystems-pw-bentley.com/transystems-pw-1-hosted/Documents/Projects_2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 28.dgn

FOR INDEX OF SHEETS, SEE SHEET NO. 2

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS

PROPOSED
HIGHWAY PLANS

FAU ROUTE 325: HOUBOLT ROAD/HOLLYWOOD ROAD
US ROUTE 6 (CHANNAHON ROAD) TO NORTH OF INTERSTATE 80
ROADWAY RECONSTRUCTION AND ADDITIONAL LANES,
INTERCHANGE RECONSTRUCTION,
TRAFFIC SIGNAL MODERNIZATION, INTERCONNECT AND LIGHTING
SECTION 16-00503-00PV
WILL COUNTY

DESIGN DESIGNATION:

3215(40) OTHER PRINCIPAL ARTERIAL 98.10 (PCC-20)

DESIGN YEAR:

2040

TRAFFIC DATA

HOLLYWOOD ROAD / HOUBOLT ROAD (SOUTH OF MOUND ROAD)
POSTED SPEED: 40 MPH
DESIGN SPEED: 45 MPH
ADT: 10,300 (EXISTING) 39,800 (PROPOSED)

HOLLYWOOD ROAD / HOUBOLT ROAD (NORTH OF MOUND ROAD)
POSTED SPEED: 30 MPH
DESIGN SPEED: 35 MPH
ADT: 24,700 (EXISTING) 43,900 (PROPOSED)

US ROUTE 6
POSTED SPEED: 50 MPH
DESIGN SPEED: 55 MPH
ADT: 12,600 (EXISTING) 15,800 (PROPOSED)

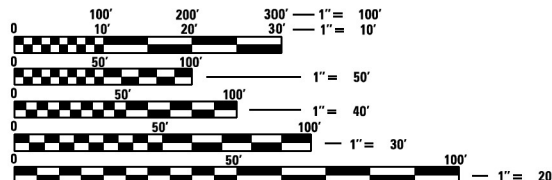
MOUND ROAD
POSTED SPEED: 35 MPH
DESIGN SPEED: 40 MPH
ADT: 2,700 (EXISTING) 2,800 (PROPOSED)

INTERSTATE 80 (RAMPS)
RAMP A
POSTED SPEED: VARIES
DESIGN SPEED: VARIES
ADT: 6,900 (EXISTING) 17,400 (PROPOSED)

RAMP B
POSTED SPEED: VARIES
DESIGN SPEED: VARIES
ADT: 6,200 (EXISTING) 12,300 (PROPOSED)

RAMP C
POSTED SPEED: VARIES
DESIGN SPEED: VARIES
ADT: 5,400 (EXISTING) 11,000 (PROPOSED)

RAMP D
POSTED SPEED: VARIES
DESIGN SPEED: VARIES
ADT: 6,900 (EXISTING) 17,200 (PROPOSED)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT MANAGER:
RUSSELL A. LUBASH, P.E. (815)724-4200
CONTRACT NO. 2584-1021



TRANSYSTEMS
R. CHRISTOPHER BONUS, P.E.
NO. 062-050801
EXP. DATE 11/30/21
SHEET RANGE 1-222, 313-367,
377-389, 620-782



TRANSYSTEMS
WILLIAM J. COLLETTI, P.E.
NO. 081-008091
EXP. DATE 11/30/22
SHEET RANGE 368-376



STRAND ASSOCIATES, INC
MARC ANTHONY GRIGAS, P.E.
NO. 062-060836
EXP. DATE 11/30/21
SHEET RANGE 223-293



TRANSYSTEMS
GAURAV RAI, P.E.
NO. 062-065565
EXP. DATE 11/30/21
SHEET RANGE 390-477



STRAND ASSOCIATES, INC
NATHAN D. RICK, S.E., P.E.
NO. 081-007039
EXP. DATE 11/30/22
SHEET RANGE 525-542



TRANSYSTEMS
STEPHAN R. FREESE, P.E.
NO. 062-055709
EXP. DATE 11/30/21
SHEET RANGE 478-524



STRAND ASSOCIATES, INC
ANTHONY J. STANDISH, S.E., P.E.
NO. 081-005819
EXP. DATE 11/30/22
SHEET RANGE 543-619

PROJECT ENDS HOUBOLT ROAD
STATION 4206+72.95

PROJECT LIMITS RAMP D
STATION 400+60

PROJECT LIMITS RAMP A
STATION 1210+49

R9E

PROJECT LIMITS RAMP B
STATION 204+00

PROJECT LIMITS W. MOUND ROAD
STATION 517+65

PROJECT LIMITS RAMP C
STATION 310+62

PROJECT LIMITS E. MOUND ROAD
STATION 605+79

BRIDGE CONSTRUCTION
STATION 4160+40.81
39-FOOT STRUCTURE
OVER TRIBUTARY TO
THE ROCK RUN SOUTH
STRUCTURE NO. SN 099-6482

PROJECT LOCATED IN:
CITY OF JOLIET

PROJECT LIMITS US ROUTE 6
STATION 265+00

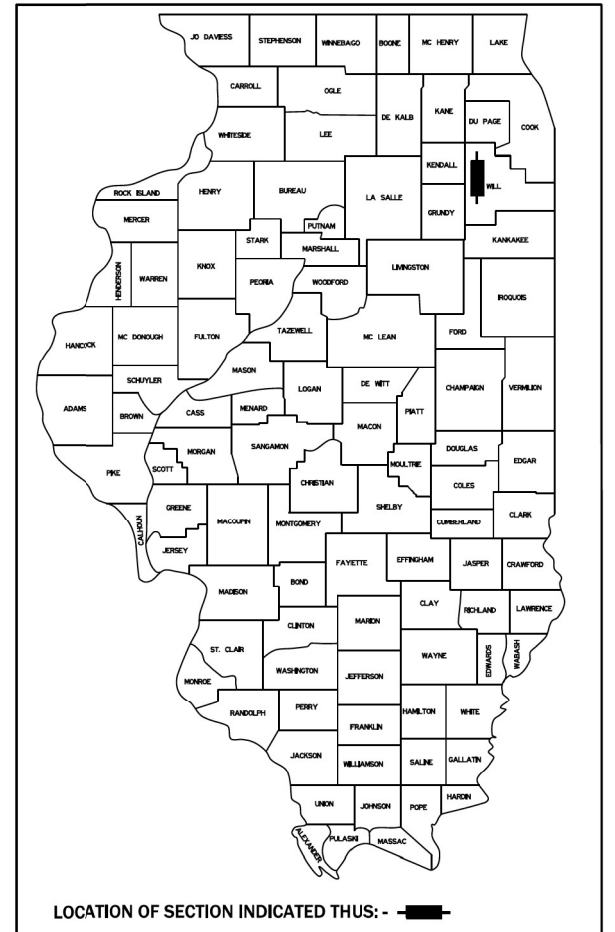
PROJECT BEGINS
HOLLYWOOD ROAD / HOUBOLT ROAD
STATION 4150+50.83

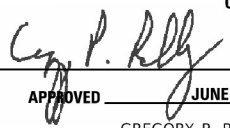
PROJECT LIMITS US ROUTE 6
STATION 252+84

LOCATION MAP

NOT TO SCALE

PROJECT LENGTH (GROSS/NET)
TOTAL LENGTH = 5,622.12 FEET (1.06 MILES)



CITY OF JOLIET
APPROVED  JUNE 30, 2021
GREGORY P. RUDDY, P.E.
CITY OF JOLIET, DIRECTOR OF PUBLIC WORKS



CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET
JOLIET, ILLINOIS 60431
(815)-724-4200

TRANSYSTEMS

USER NAME = amkluver	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = NTS	DRAWN -	REVISED -
PLOT DATE = 6/23/2023	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-28 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-80	FAI 80 21 STRUCTURE 6	WILL	898	586
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

Benchmark Information: Chiseled square on the top westerly side of concrete foundation for cantilevered traffic signal at the southwest quadrant of Houbolt Road and I-80 West Bound on ramp. Elev. 588.313.

Existing structure: None. Adjacent existing structure SN099-0301 and SN099-0302, I-80 eastbound and westbound respectively. Parallel 146'-0" simple span 60" steel plate girder bridges on integral abutments with 1:2 slope walls.

Traffic control: Staged.

Salvage: None.

LEGEND

- # Designates front face of wall Control Point. See Wall Geometry Control Table. Work this legend with table on sheet 2 of 19
- P# Panel Number
- Note: Offsets are measured from Proposed SB PGL Houbolt Road to front face of wall.

INDEX OF SHEETS

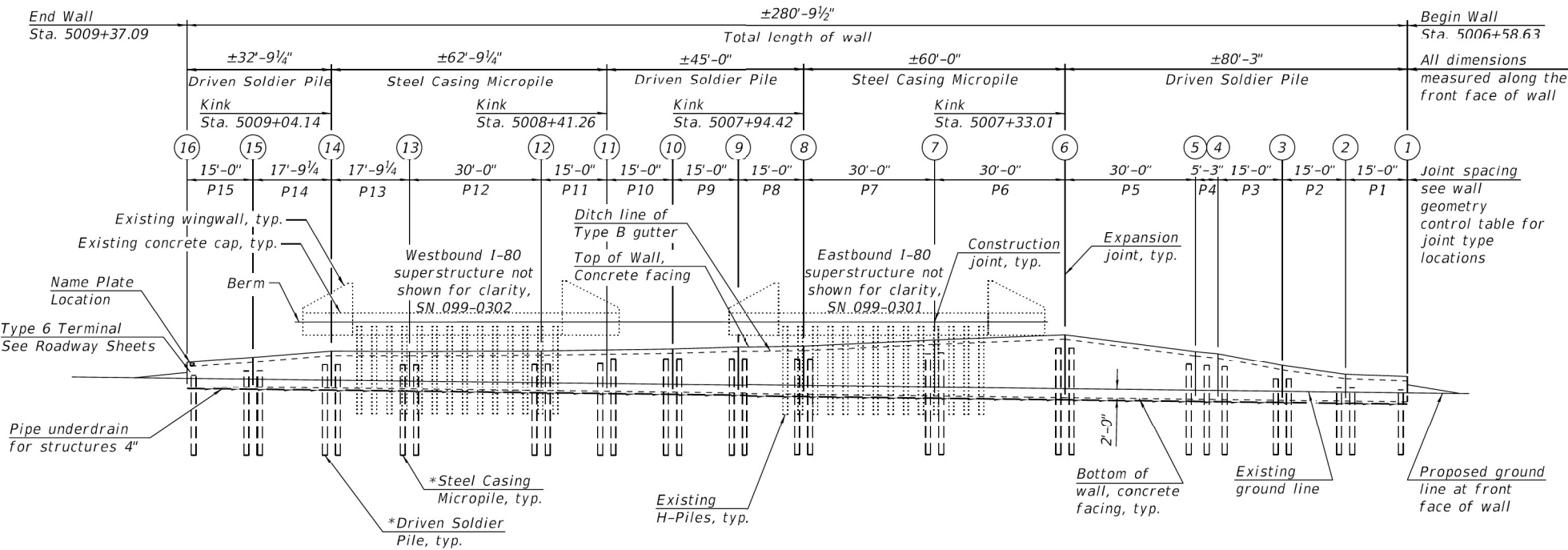
- 1 General Plan and Elevation
2 General Data and Details
3 Removal Plan
4-5 Wall Plan and Elevation
6-8 Wall Details
9-10 Soil Boring Logs
11-16 Existing Structure

SCOPE OF WORK

1. Remove portion of Slope Wall
2. Support Remaining Slope Wall and Embankment for Wall Construction
3. Construct Micropile Wall and Concrete Facing
4. Construct Driven Soldier Pile and Concrete Facing
5. Construct Anchorage Slab
6. Construct Constant Slope Barrier

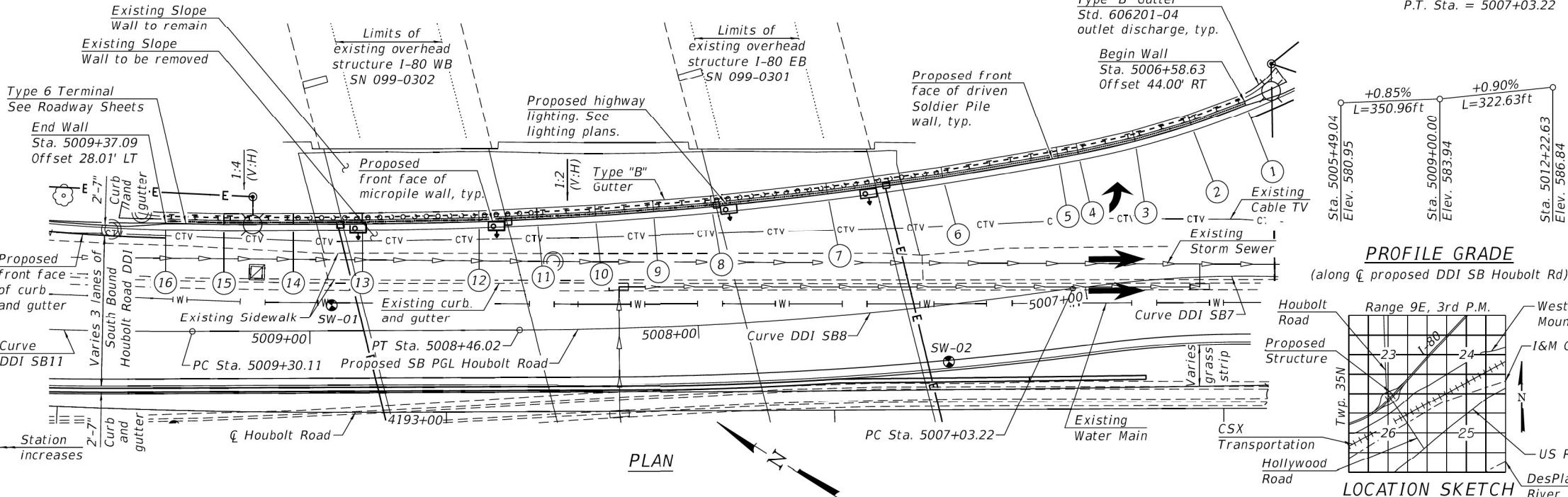
ANTICIPATED CONSTRUCTION SEQUENCE

1. Remove Slope Wall to limits shown while supporting remaining slope wall and embankment.
2. Install Micropile and Driven Soldier Pile Walls
3. Install Untreated Timber Lagging, Geocomposite Wall Drain, and Underdrain
4. Construct Concrete Facing
5. Install Concrete Gutter
6. Construct Anchorage Slab and Constant Slope Barrier



*Driven Soldier Pile and Steel Casing Micropile details shown on sheets 4 and 5 of 16.

ELEVATION (Looking east at front face of wall)



GENERAL NOTES

1. Calculated weight of Structural Steel AASHTO M270 Gr. 36 = 40,930 Pounds. (See Note 7 Sheet 8.)
Calculated weight of Structural Steel Connections = 8,740 Pounds. (See Note 8 Sheet 8.)
Total, paid as Furnishing and Erecting Structural Steel = 49,670 Pounds.
2. Structural steel plates may be AASHTO M270 Grade 36.
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
6. Concrete Sealer shall be applied to the concrete facing. Concrete Sealer limits shall extend from the bottom of concrete facing at the front face to the top and return over the top and down 1'-6" on the rear end.
7. Backfill limits of excavation within 2'-0" of structures and beneath roadway with compacted Granular Backfill for Structures, paid as Granular Backfill for Structures. Remaining backfill outside those limits shall be provided as directed by Engineer and according to Section 502 of the Standard Specifications. Remaining backfill associated with Structure Excavtion shall be included in the cost of Structure Excavation.
8. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
9. The Concrete Facing shall be poured before all final grading work behind and above the wall are complete.
10. Any removal of the existing slope wall or overexcavation and backfill beyond limits noted to complete grading or installation of the proposed retaining wall is included in the cost of Slope Wall Removal and Micropiles, Lateral. Removal shall be approved by the engineer.

LATERAL DESIGN LOADS	
Elevation	Equivalent Fluid Pressure
694.00 to 585.00	49.2 psf
585.00 to 567.00	39.2 psf

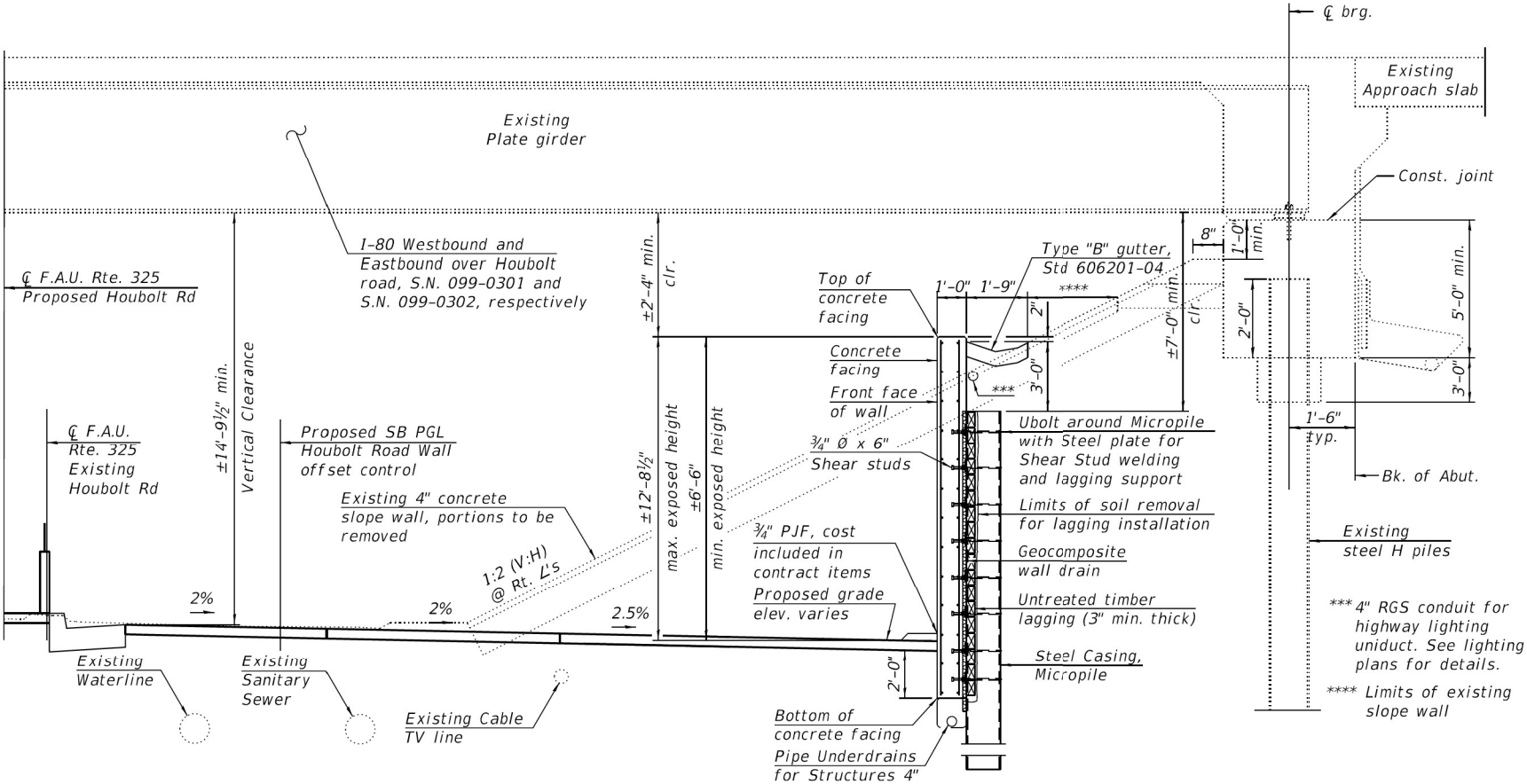
Notes:

1. Lateral design loads are reported as service Equivalent Fluid Pressure loads.
2. Maximum allowable deflection at top of pile is 1 inch under lateral design loads.

WALL GEOMETRY CONTROL TABLE - S.N. 099-6301								
Wall Location	Wall Type	Control Point	Station Alignment	** Offset RT, ft	Elevation Top of Concrete Facing, ft	Bottom of Concrete Facing Elev.	Panel Point Spacing, ft	Joint, E=Exp., C=Constr.
Begin Wall	Driven Soldier Pile	1	5006+58.63	44.00	581.71	578.00	15.00	-
Kink	Driven Soldier Pile	2	5006+71.08	39.15	584.71	579.00	15.00	C
Kink	Driven Soldier Pile	3	5006+84.1	35.81	586.71	579.00	15.00	C
Kink	Driven Soldier Pile	4	5006+97.44	34.07	589.46	579.00	5.25	C
Kink	Driven Soldier Pile	5	5007+02.16	33.83	589.96	579.00	30.00	C
Kink	Micro Pile	6	5007+33.01	32.68	593.71	579.00	30.00	E
Kink	Micro Pile	7	5007+63.98	31.54	592.46	580.00	30.00	C
Kink	Driven Soldier Pile	8	5007+94.92	30.38	590.96	580.00	15.00	E
Kink	Driven Soldier Pile	9	5008+10.38	29.90	590.71	580.00	15.00	C
Kink	Driven Soldier Pile	10	5008+25.82	29.19	590.21	580.00	15.00	C
Kink	Micro Pile	11	5008+41.26	28.70	589.96	580.00	15.00	E
Kink	Micro Pile	12	5008+56.38	28.04	589.71	580.00	30.00	C
Kink	Micro Pile	13	5008+86.38	27.58	589.46	581.00	17.77	C
Kink	Driven Soldier Pile	14	5009+04.14	27.58	589.46	581.00	17.77	E
Kink	Driven Soldier Pile	15	5009+21.91	27.58	587.96	581.00	15.00	C
End Wall		16	5009+37.09	28.01	585.18	0.00	*280.79	-

* Total wall length.

** Offset measured from SB PGL.



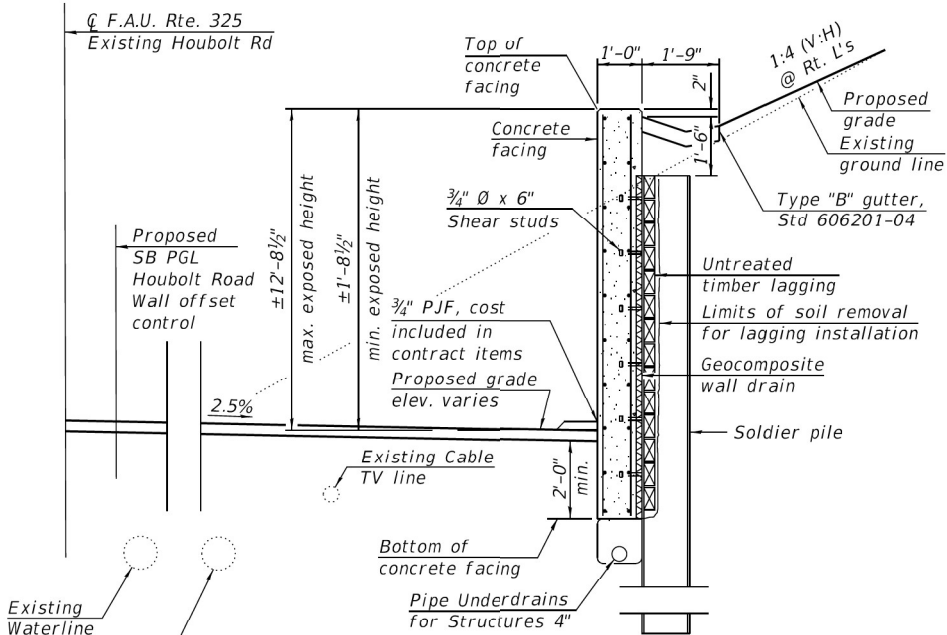
TYPICAL MICROPILE WALL SECTION
(Looking North)

STATION 5006+58 TO 5009+37
BUILT 202X BY
ILLINOIS DEPARTMENT OF
TRANSPORTATION
FAU 325 SECTION
16-00503-00-PV
STRUCTURE NO. 099-6301

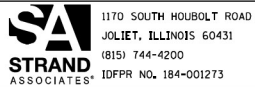
NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall Removal	Sq Yd	268
Structure Excavation	Cu Yd	279
Concrete Structures	Cu Yd	146
Furnishing and Erecting Structural Steel	Pounds	49,670
Stud Shear Connectors	Each	1,937
Reinforcement Bars, Epoxy Coated	Pound	8,890
Name Plate	Foot	1
Furnishing Soldier Piles (HP Section)	Each	1,029
Driving Soldier Piles	Foot	1,029
Untreated Timber Lagging	Sq Ft	2,521
Concrete Sealer	Sq Ft	3,790
Granular Backfill for Structures	Cu Yd	32
Geocomposite Wall Drain	Sq Yd	270
Concrete Gutter, Type B	Foot	305
Micropiles - Wall	Each	41
Pipe Underdrains for Structures 4"	Foot	384



TYPICAL DRIVEN SOLDIER PILE WALL SECTION
(Looking North)



USER NAME = AlexSc	DESIGNED - BRL	REVISED -
	CHECKED - AJS	REVISED -
PLOT SCALE =	DRAWN - BJF	REVISED -
PLOT DATE = 7/9/2021	CHECKED - KRB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA AND DETAILS
STRUCTURE NO. 099-6301

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	589
CONTRACT NO. 2584-1021				
ILLINOIS FED. AID PROJECT				

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	588
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SE1-30 OF SE1-48 SHEETS

GENERAL NOTES

1. Calculated weight of Structural Steel AASHTO M270 Gr. 36 = 40,930 Pounds. (See Note 7 Sheet 8.)
Calculated weight of Structural Steel Connections = 8,740 Pounds. (See Note 8 Sheet 8.)
Total, paid as Furnishing and Erecting Structural Steel = 49,670 Pounds.
2. Structural steel plates may be AASHTO M270 Grade 36.
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
6. Concrete Sealer shall be applied to the concrete facing. Concrete Sealer limits shall extend from the bottom of concrete facing at the front face to the top and return over the top and down 1'-6" on the rear end.
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8. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
9. The Concrete Facing shall be poured before all final grading work behind and above the wall are complete.
10. Any removal of the existing slope wall or overexcavation and backfill beyond limits noted to complete grading or installation of the proposed retaining wall is included in the cost of Slope Wall Removal and Micropiles, Lateral. Removal shall be approved by the engineer.

LATERAL DESIGN LOADS	
Elevation	Equivalent Fluid Pressure
694.00 to 585.00	49.2 psf
585.00 to 567.00	39.2 psf

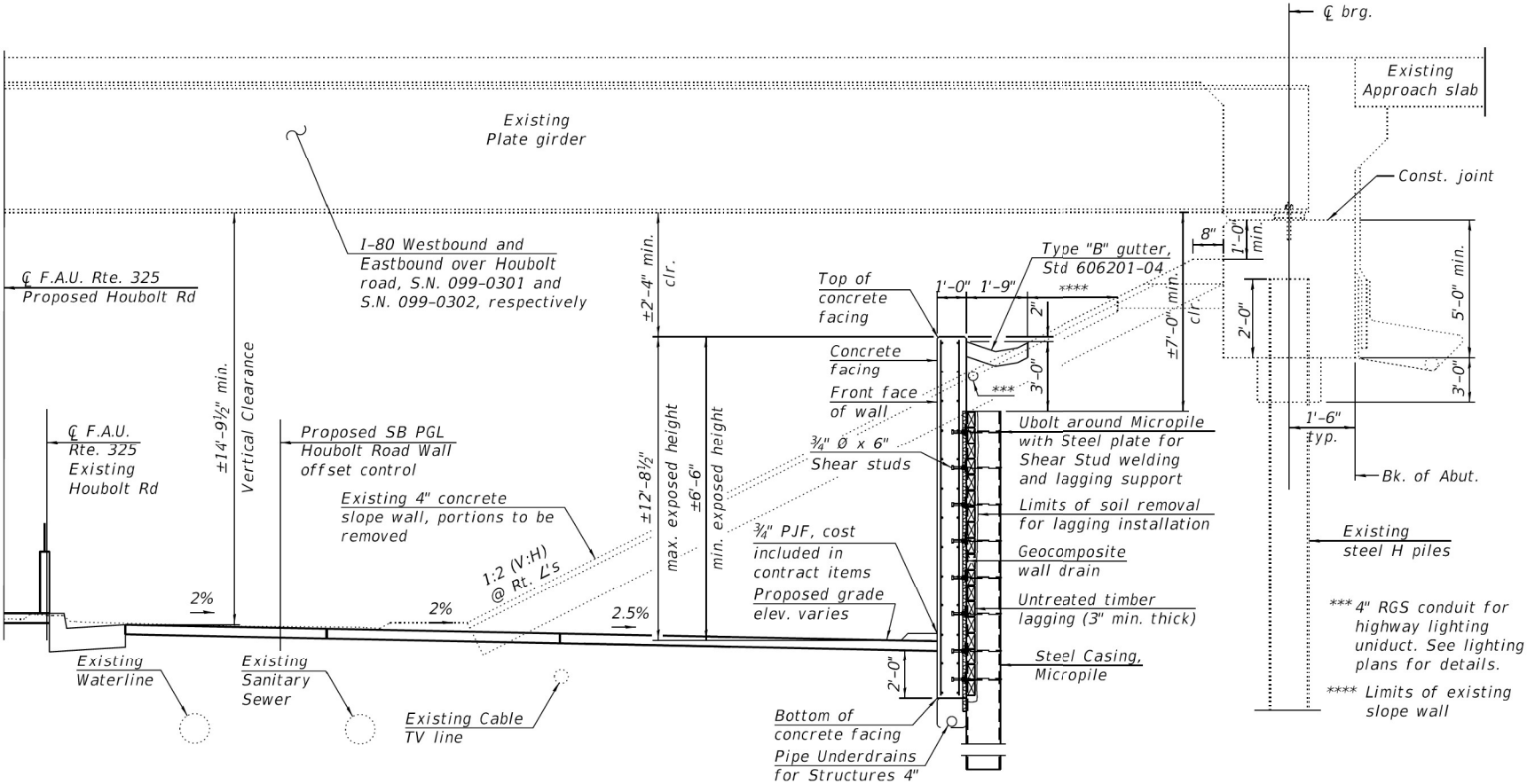
Notes:

1. Lateral design loads are reported as service Equivalent Fluid Pressure loads.
2. Maximum allowable deflection at top of pile is 1 inch under lateral design loads.

WALL GEOMETRY CONTROL TABLE - S.N. 099-6301								
Wall Location	Wall Type	Control Point	Station Alignment	** Offset RT, ft	Elevation Top of Concrete Facing, ft	Bottom of Concrete Facing Elev.	Panel Point Spacing, ft	Joint, E=Exp., C=Constr.
Begin Wall	Driven Soldier Pile	1	5006+58.63	44.00	581.71	578.00	15.00	-
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Kink	Driven Soldier Pile	10	5008+25.82	29.19	590.21	580.00	15.00	C
Kink	Micro Pile	11	5008+41.26	28.70	589.96	580.00	15.00	E
Kink	Micro Pile	12	5008+56.38	28.04	589.71	580.00	30.00	C
Kink	Micro Pile	13	5008+86.38	27.58	589.46	581.00	17.77	C
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End Wall		16	5009+37.09	28.01	585.18	0.00	*280.79	-

* Total wall length.

** Offset measured from SB PGL.



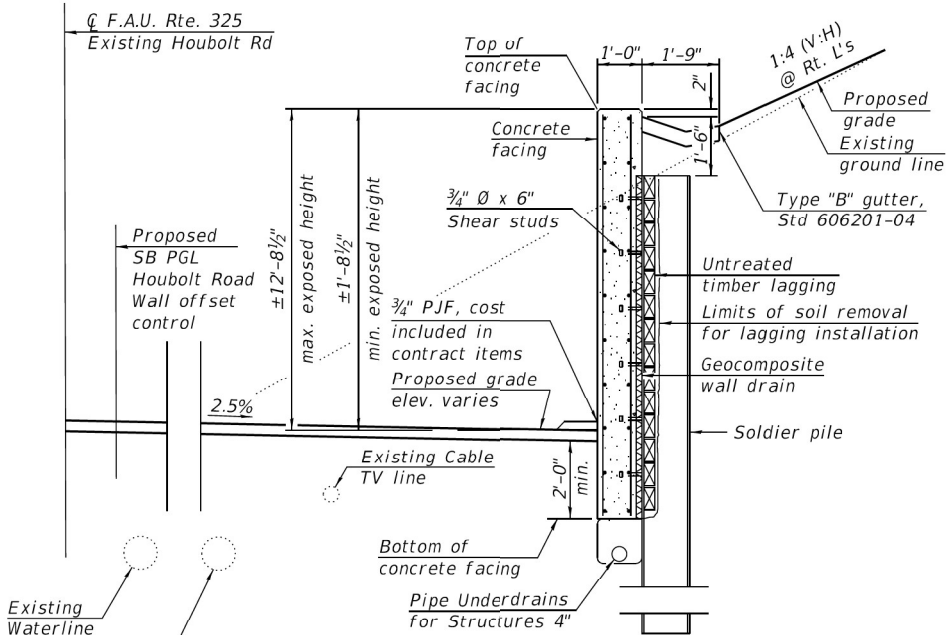
TYPICAL MICROPILE WALL SECTION
(Looking North)

STATION 5006+58 TO 5009+37
BUILT 202X BY
ILLINOIS DEPARTMENT OF
TRANSPORTATION
FAU 325 SECTION
16-00503-00-PV
STRUCTURE NO. 099-6301

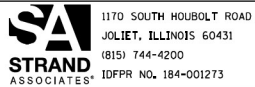
NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall Removal	Sq Yd	268
Structure Excavation	Cu Yd	279
Concrete Structures	Cu Yd	146
Furnishing and Erecting Structural Steel	Pounds	49,670
Stud Shear Connectors	Each	1,937
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Geocomposite Wall Drain	Sq Yd	270
Concrete Gutter, Type B	Foot	305
Micropiles - Wall	Each	41
Pipe Underdrains for Structures 4"	Foot	384



TYPICAL DRIVEN SOLDIER PILE WALL SECTION
(Looking North)



USER NAME = amkluver	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = NTS	DRAWN -	REVISED -
PLOT DATE = 6/23/2023	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

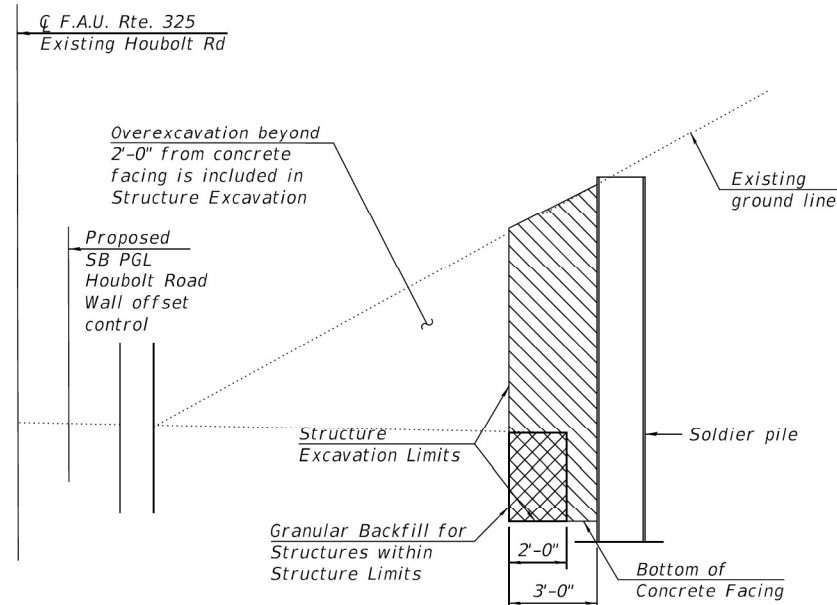
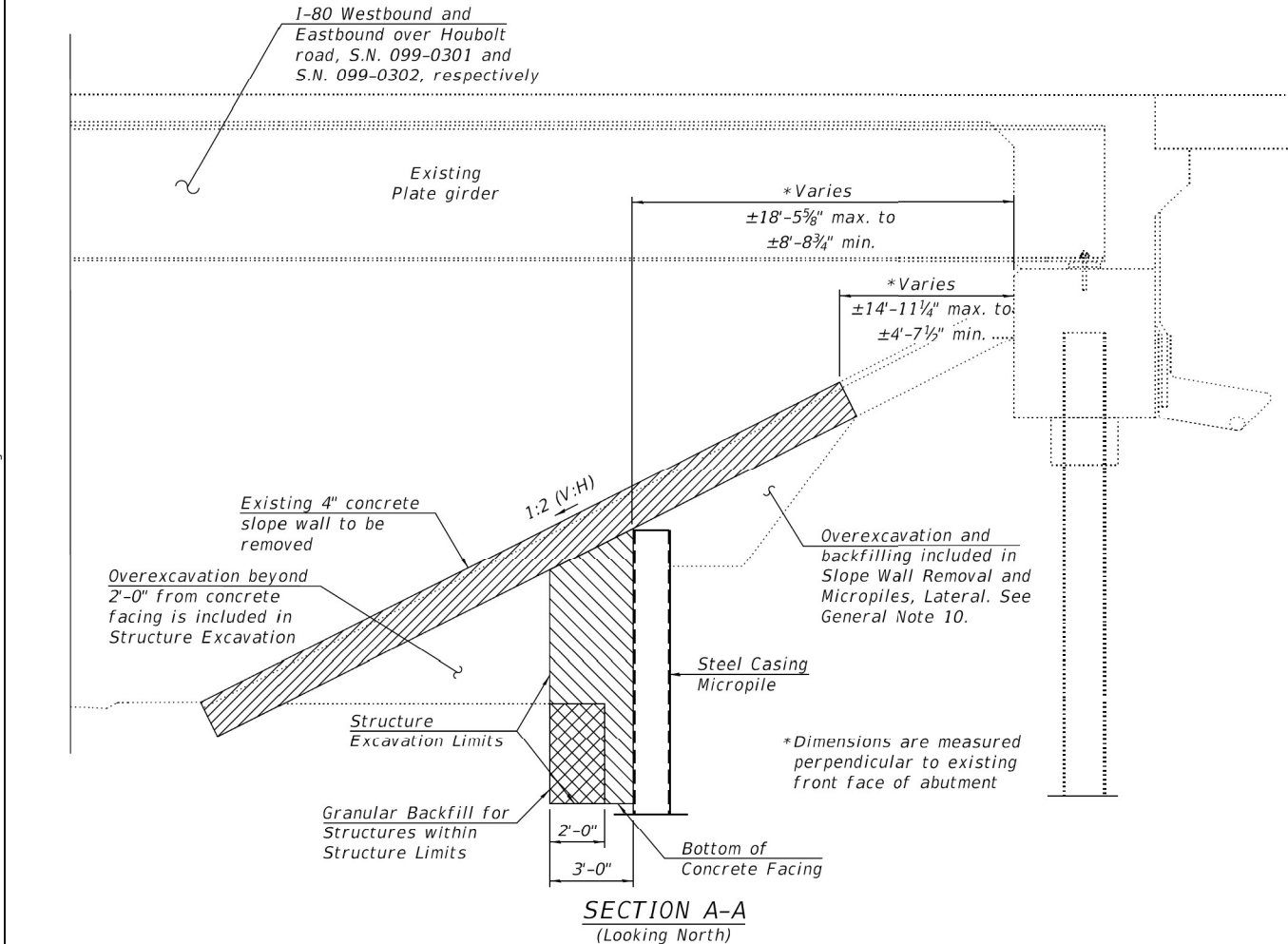
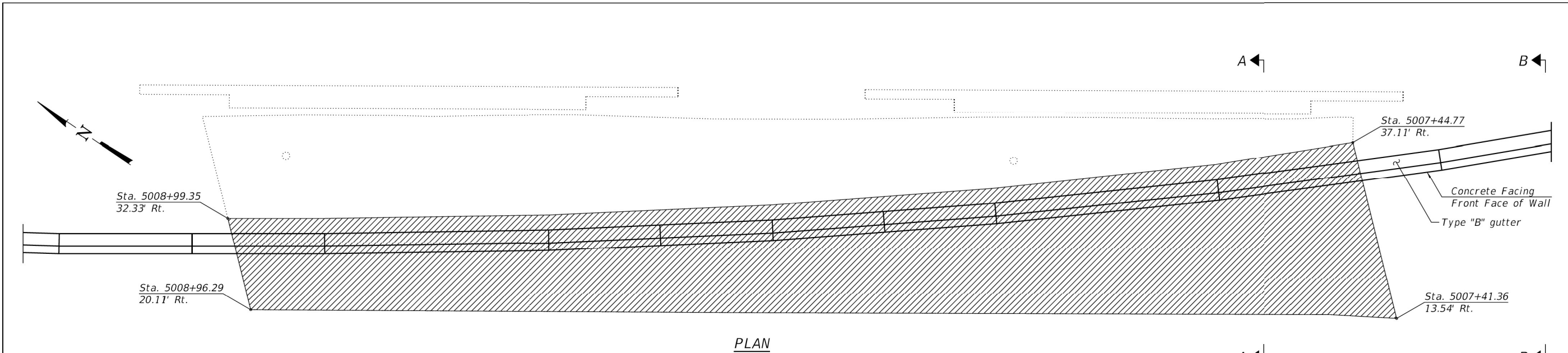
EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	588
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

SHEET SE1-30 OF SE1-48 SHEETS

MODEL: Drawing Views
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 31.dgn

FILE NAME = SA\\JOL\\44800-4499\\4478\\001\\Micros\\CDD\\Sheets\\0818-XX-XXX\\6203-REMOVED.dgn



LEGEND	
	Slope Wall Removal
	Structure Excavation
	Granular Backfill for Structures

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall Removal	Sq Yd	268
Structure Excavation	Cu Yd	279
Granular Backfill for Structures	Cu Yd	32



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
ASSOCIATES* IDPR NO. 184-001273

USER NAME *	AlexSc	DESIGNED -	BRL	REVISED -
		CHECKED -	AJS	REVISED -
PLOT SCALE *		DRAWN -	BJF	REVISED -
PLOT DATE *	7/9/2021	CHECKED -	KRB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
STRUCTURE NO. 099-6301

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	590
CONTRACT NO. 2584-1021				
ILLINOIS FED. AID PROJECT				

SHEET NO. 3 OF 16 SHEETS

TRANSYSTEMS

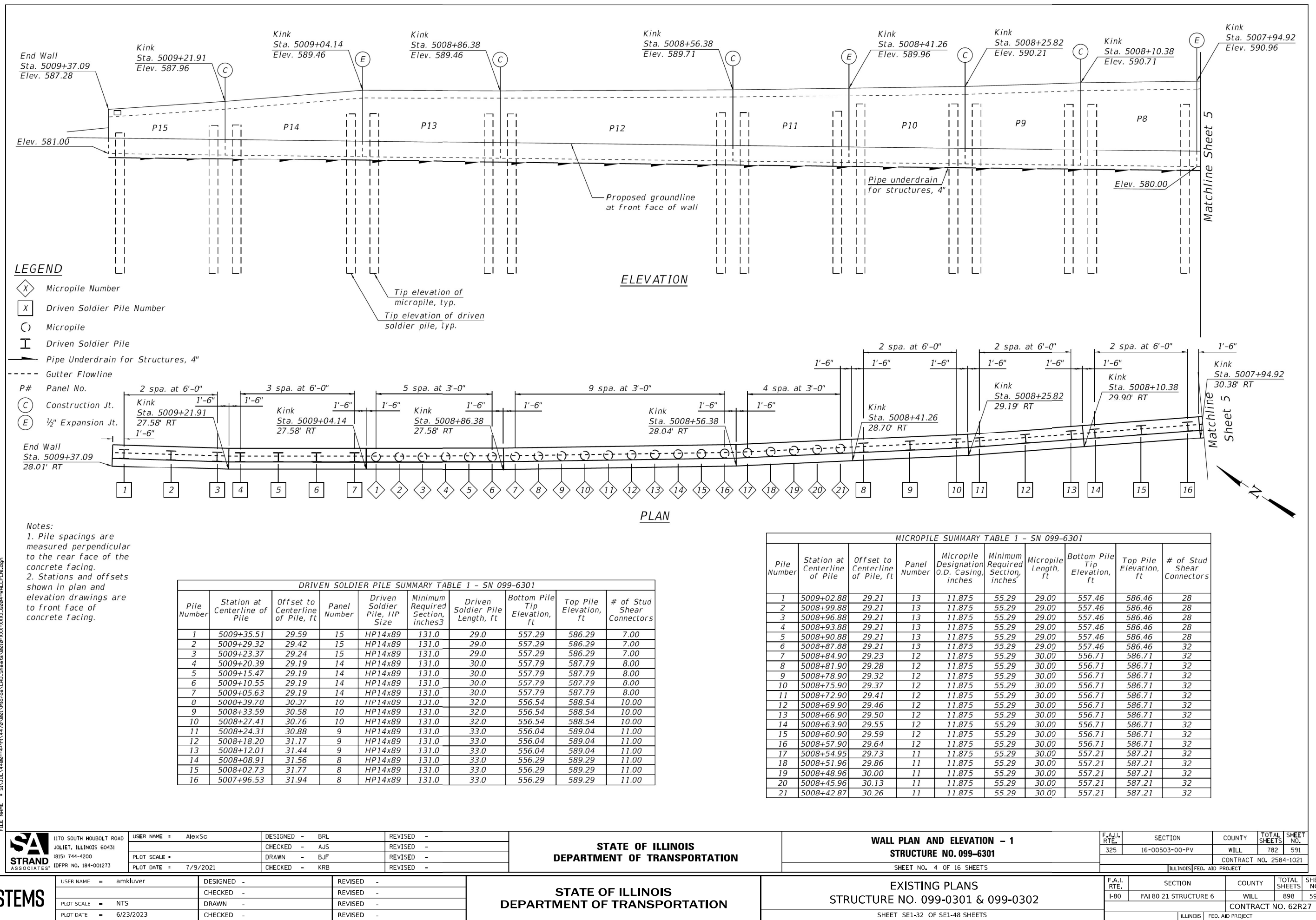
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		CHECKED -		REVISED -
PLOT SCALE =	NTS	DRAWN -		REVISED -
PLOT DATE =	6/23/2023	CHECKED -		REVISED -

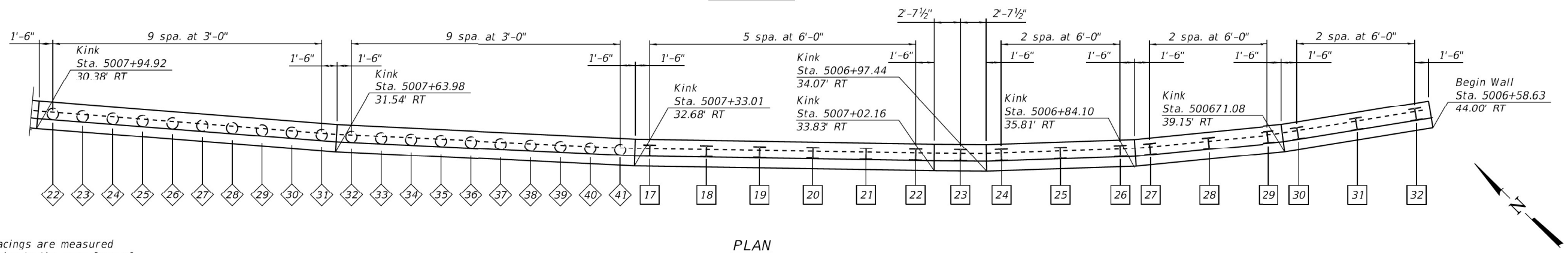
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-31 OF SE1-48 SHEETS

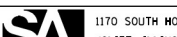
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	589
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				





Pile Number	Station at Centerline of Pile	Offset to Centerline of Pile, ft	Panel Number	Driven Soldier Pile, HP Size	Minimum Required Section, inches	Driven Soldier Pile Length, ft	Bottom Pile Tip Elevation, ft	Top Pile Elevation, ft	# of Stud Shear Connectors
17	5007+31.53	34.37	5	HP14x89	131.0	37.0	553.79	590.79	13.00
18	5007+25.70	34.65	5	HP14x89	131.0	37.0	553.79	590.79	13.00
19	5007+20.18	34.88	5	HP14x89	131.0	37.0	553.79	590.79	13.00
20	5007+14.66	35.09	5	HP14x89	131.0	37.0	553.79	590.79	13.00
21	5007+09.13	35.27	5	HP14x89	131.0	37.0	553.79	590.79	13.00
22	5007+03.98	35.40	5	HP14x89	131.0	37.0	553.79	590.79	13.00
23	5006+99.86	35.55	4	HP14x89	131.0	33.0	555.29	588.29	11.00
24	5006+96.21	35.82	3	HP14x89	131.0	32.0	555.79	587.79	10.00
25	5006+90.97	36.45	3	HP14x89	131.0	32.0	555.79	587.79	10.00
26	5006+85.66	37.19	3	HP14x89	131.0	32.0	555.79	587.79	10.00
27	5006+83.03	37.70	2	HP14x89	131.0	30.0	555.04	585.04	8.00
28	5006+77.91	38.96	2	HP14x89	131.0	30.0	555.04	585.04	8.00
29	5006+72.75	40.33	2	HP14x89	131.0	30.0	555.04	585.04	8.00
30	5006+70.21	41.15	1	HP14x89	131.0	29.0	554.04	583.04	7.00
31	5006+65.27	43.02	1	HP14x89	131.0	29.0	554.04	583.04	7.00
32	5006+60.33	45.00	1	HP14x89	131.0	29.0	554.04	583.04	7.00

Pile Number	Station at Centerline of Pile	Offset to Centerline of Pile, ft	Panel Number	Micropile Designation O.D. Casing, inches	Minimum Required Section, inches	Micropile Length, ft	Bottom Pile Tip Elevation, ft	Top Pile Elevation, ft	# of Stud Shear Connectors
22	5007+93.46	32.08	7	14.0	69.11	33.00	556.46	589.46	44
23	5007+90.37	32.24	7	14.0	69.11	33.00	556.46	589.46	44
24	5007+87.27	32.38	7	14.0	69.11	33.00	556.46	589.46	44
25	5007+84.17	32.52	7	14.0	69.11	33.00	556.46	589.46	44
26	5007+81.08	32.64	7	14.0	69.11	33.00	556.46	589.46	44
27	5007+77.88	32.76	7	14.0	69.11	33.00	556.46	589.46	44
28	5007+74.88	32.87	7	14.0	69.11	33.00	556.46	589.46	44
29	5007+71.78	32.96	7	14.0	69.11	33.00	556.46	589.46	44
30	5007+68.68	33.05	7	14.0	69.11	33.00	556.46	589.46	44
31	5007+65.57	33.13	7	14.0	69.11	33.00	556.46	589.46	44
32	5007+62.52	33.25	6	14.0	69.11	34.00	555.46	589.46	48
33	5007+59.43	33.40	6	14.0	69.11	34.00	555.46	589.46	48
34	5007+56.32	33.54	6	14.0	69.11	34.00	555.46	589.46	48
35	5007+53.22	33.67	6	14.0	69.11	34.00	555.46	589.46	48
36	5007+50.12	33.80	6	14.0	69.11	34.00	555.46	589.46	48
37	5007+45.02	33.91	6	14.0	69.11	34.00	555.46	589.46	48
38	5007+43.91	34.01	6	14.0	69.11	34.00	555.46	589.46	48
39	5007+40.81	34.11	6	14.0	69.11	34.00	555.46	589.46	48
40	5007+37.71	34.20	6	14.0	69.11	34.00	555.46	589.46	48
41	5007+34.60	34.27	6	14.0	69.11	34.00	555.46	589.46	48

	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273		USER NAME = AlexSc	DESIGNED - BRL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALL PLAN AND ELEVATION - 2 STRUCTURE NO. 099-6301	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - AJS	REVISED -	325	16-00503-00-PV			WILL	782	592		
	PLOT DATE = 7/9/2021	DRAWN - BJF	REVISED -					CONTRACT NO. 2584-1021				
		CHECKED - KRB	REVISED -					ILLINOIS FED. AID PROJECT				
SYSTEMS	USER NAME = amkluver		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 099-0301 & 099-0302	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = NTS	CHECKED -	REVISED -	I-80			FAI 80 21 STRUCTURE 6	WILL	898	591		
	PLOT DATE = 6/23/2023	DRAWN -	REVISED -				CONTRACT NO. 62R27					
		CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT					

MODEL: Drawing Views
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 34.dgn

FILE NAME = SA\\JOL\\44800-4499\\4478\\001\\Micros\\Cdd_Sheets\\0018-XX-XXX-XXX\\6206-wallDET1.dgn



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
ASSOCIATES® IDPPR NO. 184-001273

USER NAME *	AlexSc	DESIGNED -	BRL	REVISED -	
		CHECKED -	AJS	REVISED -	
PLOT SCALE *		DRAWN -	BJF	REVISED -	
PLOT DATE *	7/9/2021	CHECKED -	KRB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL DETAILS - 1
STRUCTURE NO. 099-6301

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	593
CONTRACT NO. 2584-1021				
ILLINOIS FED. AID PROJECT				

TRANSYSTEMS

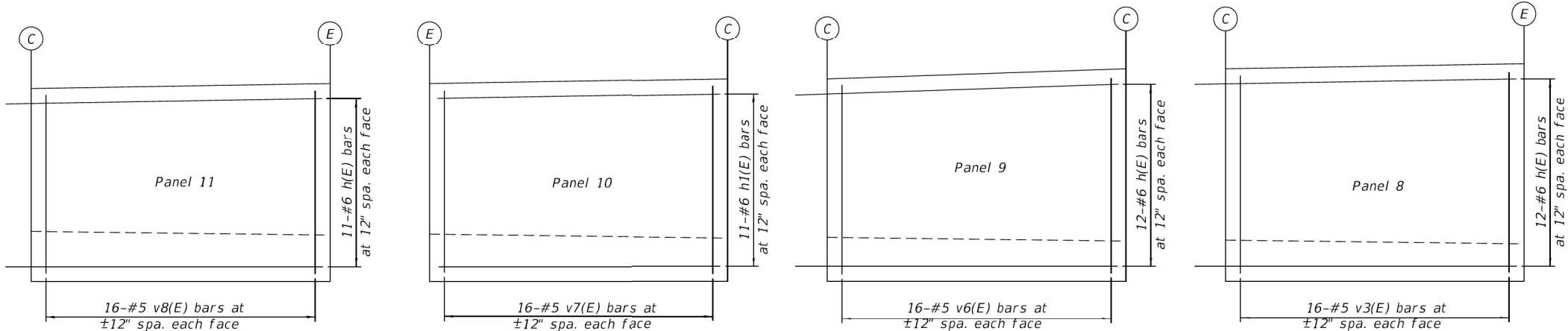
USER NAME =	amkluver	DESIGNED -	REVISED -
		CHECKED -	REVISED -
PLOT SCALE =	NTS	DRAWN -	REVISED -
PLOT DATE =	6/23/2023	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-34 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	592
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				



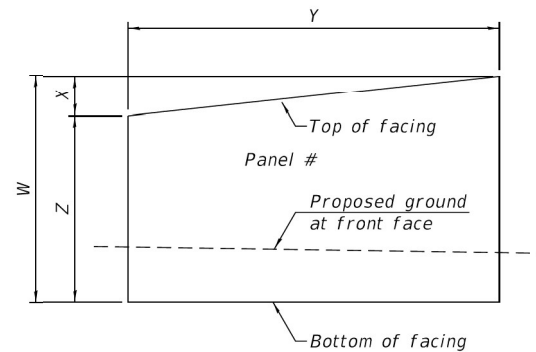
CONCRETE FACING PANEL ELEVATIONS
(Panels 11 to 8)

LEGEND

- Panel #
- (C) Construction Joint
 - (E) 1/2" Expansion Joint
 - Proposed groundline

MIN. BAR LAP

#6 bar = 3'-10"



PANEL SKETCH-1

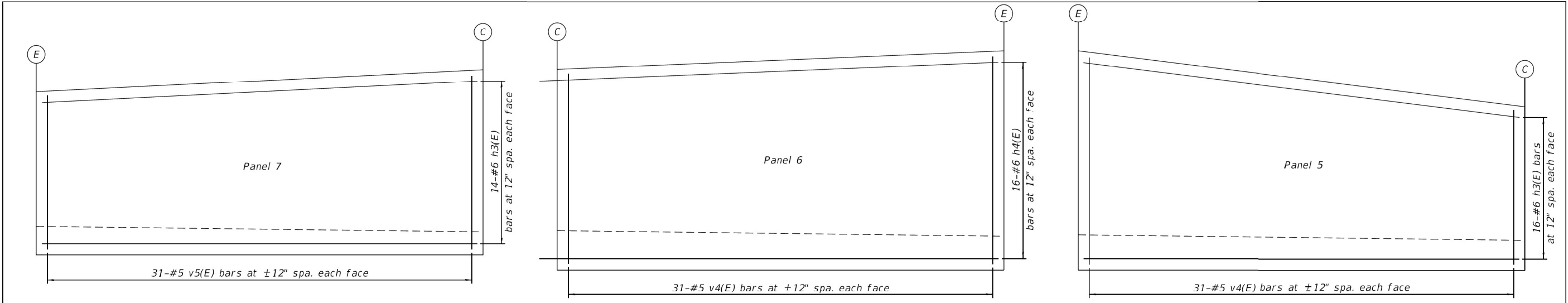
See wall and reinforcement detail notes on sheet 8 of 16.

CONCRETE PANEL FACING TABLE 1 - S.N. 099-6301				
Panel	W (FT)	X (FT)	Y (FT)	Z (FT)
15	6.96	2.78	15.00	4.18
14	8.46	1.50	17.77	6.96
13	8.46	0.00	17.77	8.46
12	9.71	0.25	30.00	9.46
11	9.96	0.25	15.00	9.71
10	10.21	0.25	15.00	9.96
9	10.71	0.50	15.00	10.21
8	10.96	0.25	15.00	10.71

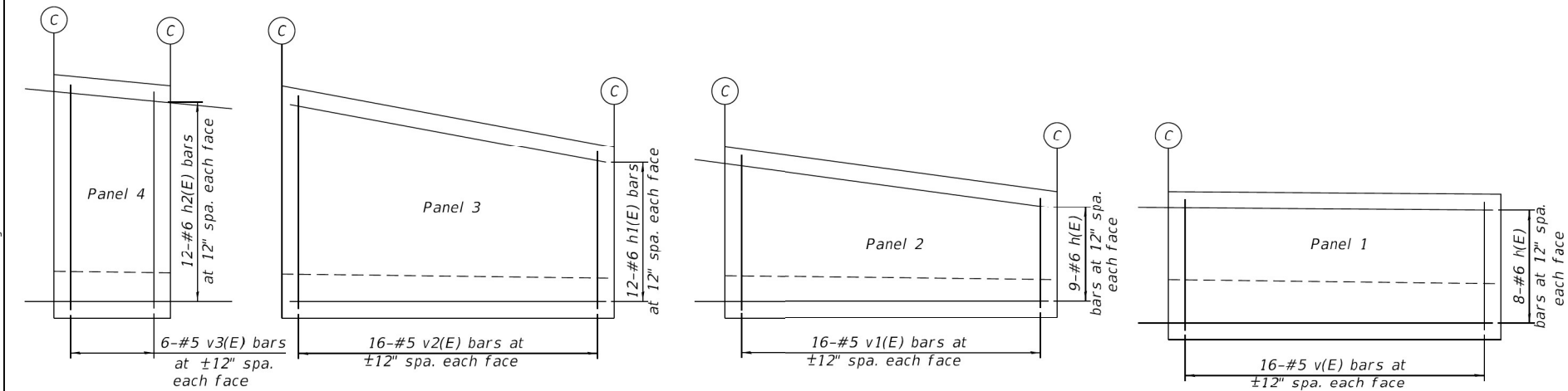
1. See Panel Sketch -1 on this sheet for working panels 8 to 15.

MODEL: Drawing Views
FILE NAME: pw://transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-Transystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 35.dgn

FILE NAME = SA\\JOL\\4400--4499\\4479\\001\\Micros\\Cdd\\Sheets\\0018-XX-XXX\\C_6007-WALLDET2.dgn



CONCRETE FACING PANEL ELEVATIONS
(Panels 7 to 5)



CONCRETE FACING PANEL ELEVATIONS
(Panels 4 to 1)

See wall and reinforcement detail notes on sheet 8 of 16.

CONCRETE PANEL FACING TABLE 2 - S.N. 099-6301				
Panel	W (FT)	X (FT)	Y (FT)	Z (FT)
7	12.46	1.50	30.00	10.96
6	14.71	1.25	30.00	13.46
5	14.71	3.75	30.00	10.96
4	10.96	0.50	5.25	10.46
3	10.46	2.75	15.00	7.71
2	7.71	2.00	15.00	5.71
1	6.71	3.00	15.00	3.71

- See Panel Sketch-1 on Sheet 6 of 16 for working panels 7 and 6 with Table.
- See Panel Sketch-2 on this sheet for working panels 1 to 5.

LEGEND

Panel #

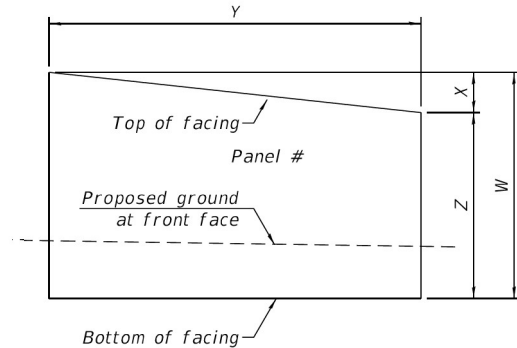
(C) Construction Joint

(E) 1/2" Expansion Joint

----- Proposed groundline

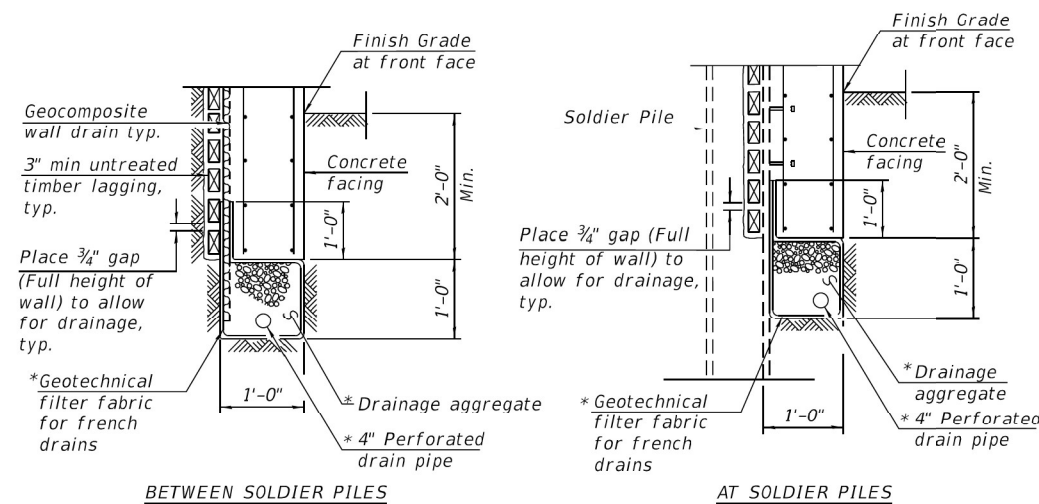
MIN. BAR LAP

#6 bar = 3'-10"



PANEL SKETCH - 2

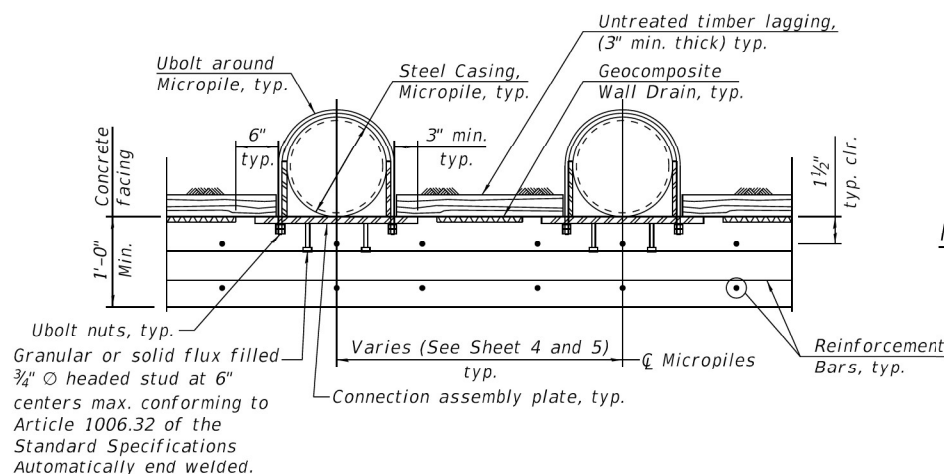
STRAND ASSOCIATES 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = AlexSc	DESIGNED - BRL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALL DETAILS - 2 STRUCTURE NO. 099-6301	F.A.I. RTE. = 325	SECTION = 16-00503-00-PV	COUNTY = WILL	TOTAL SHEETS = 782	SHEET NO. = 594
	PLOT SCALE =	DRAWN - BJF	REVISED -			CONTRACT NO. 2584-1021				
TRANSYSTEMS	USER NAME = amkluver	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS STRUCTURE NO. 099-0301 & 099-0302	F.A.I. RTE. = I-80	SECTION = FAI 80 21 STRUCTURE 6	COUNTY = WILL	TOTAL SHEETS = 898	SHEET NO. = 593
	PLOT SCALE = NTS	DRAWN -	REVISED -			CONTRACT NO. 62R27				
PLOT DATE = 7/9/2021				CHECKED - KRB	REVISED -	SHEET NO. 7 OF 16 SHEETS				
PLOT DATE = 6/23/2023				CHECKED -	REVISED -	SHEET SE1-35 OF SE1-48 SHEETS				
						ILLINOIS FED. AID PROJECT				



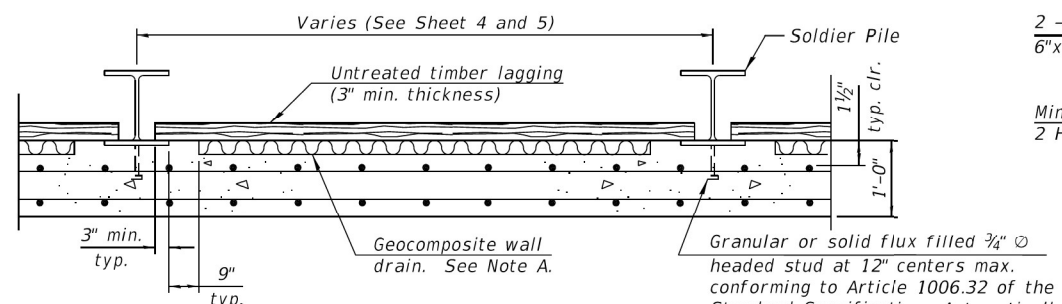
PIPE UNDERDRAIN DETAIL

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

Pipe Underdrain shall tie into storm sewer. The pipe will outlet at approximately Sta. 5005+95.59 O/S 107.63' RT. Once the 4" perforated drain pipe exits the geotechnical filter fabric it shall be a solid 6" Ø schedule 80 PVC pipe (minimum), included in cost of Pipe Underdrains for Structures 4"

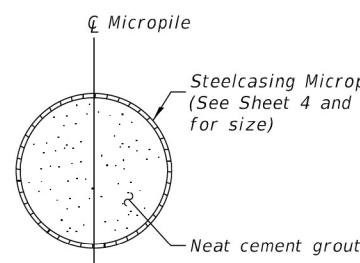


SECTION THRU MICROPILE WALL DETAIL

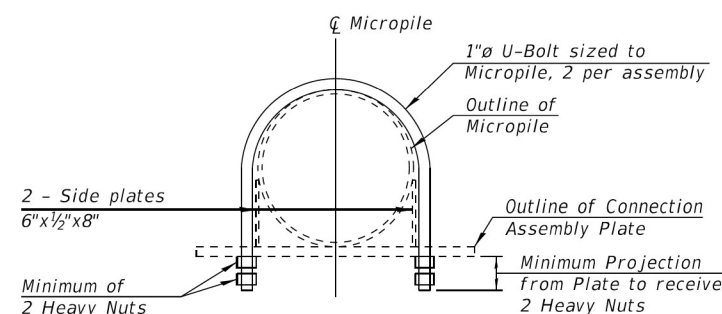


SECTION THRU DRILLED SOLDIER PILE WALL

Note A: Geocomposite wall drain shall not have a thickness greater than $1\frac{3}{16}$ "

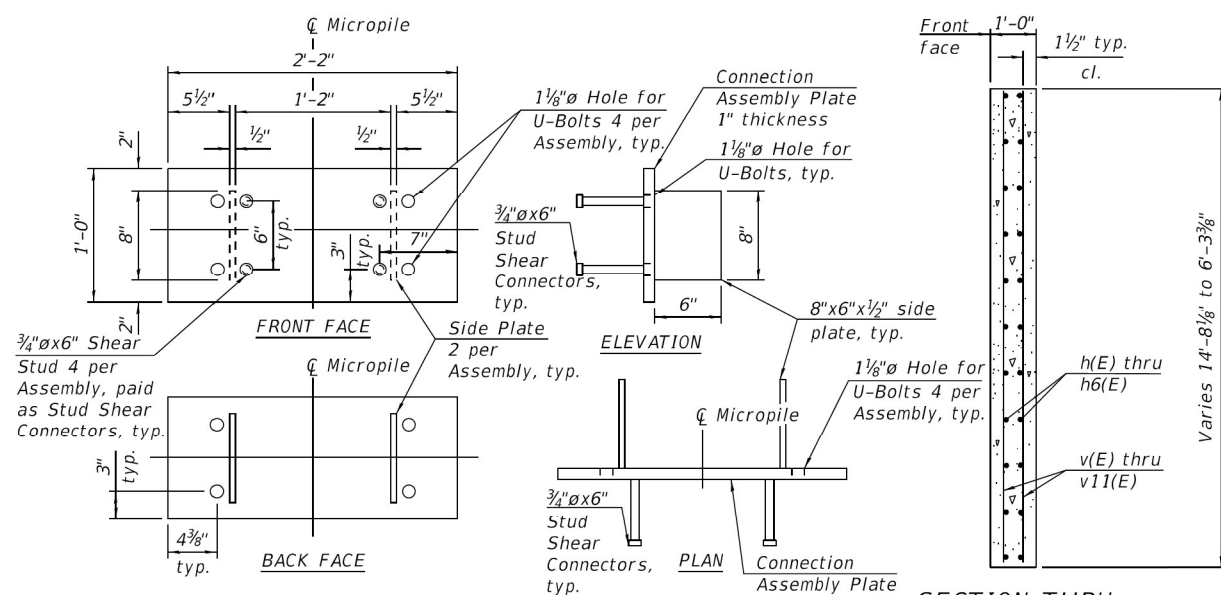


MICROPILE SECTION



CONNECTION ASSEMBLY U-BOLTS

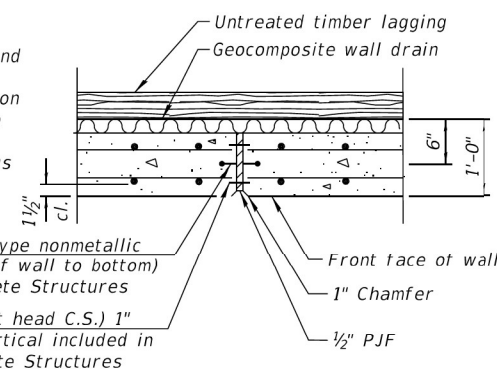
(1 Assembly; Total Assemblies 393)



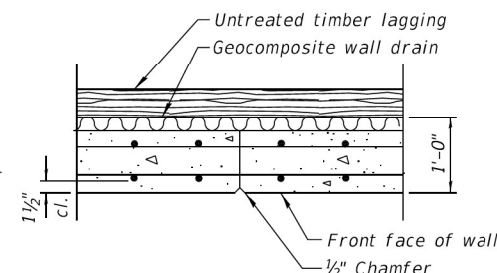
CONNECTION ASSEMBLY PLATE

(1 Assembly; Total Assemblies 393)

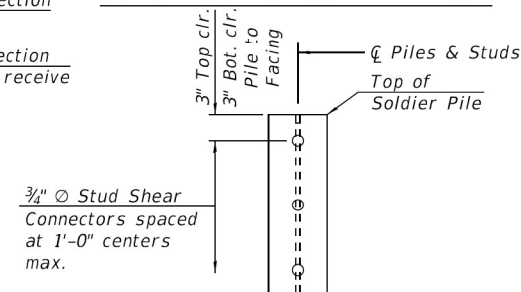
Note: Connection Assembly Plate, or submitted equal by shop drawings, to provide connection between Micropile and Stud Shear Connectors embedded into Concrete Facing. Timber lagging rests on the back face of the plate at Micropile locations. Connection Assembly Plates should be stacked to provide continuous timber lagging support.



EXPANSION JOINT DETAIL



CONSTRUCTION JOINT DETAIL



SHEAR STUD PLACEMENT

NOTES

1. Stations and dimensions are at front face of wall.
2. Space reinforcement in wall to miss shear studs.
3. For Typical Section, see Sheet 2 of 16 and this sheet.
4. Vertical bars are cut to fit.
5. Horizontal top bars along the slope are to be fanned.
6. Front face of concrete facing to be cast vertical.
7. Connection Assembly Plate - 393 Total Assemblies (Paid under Furnishing and Erecting Structural Steel. See General Note 1.):
 - 1 - 2'-2"x1'-0"x1" Plate
 - 2 - 6"x8"x1½" Side Plates
 - 4 - 1½" Dia. Holes
 - 4 - Stud Shear Connectors (Paid separately as Stud Shear Connectors)
8. Connection Assembly UBolts - 393 Total Assemblies (Paid under Furnishing and Erecting Structural Steel. See General Note 1.):
 - 2 - UBolts 1" Dia. or sized to fit Micropile
 - 4 - Heavy Hex Nuts

MICROPILE WALL AND
DRIVEN SOLDIER PILE WALL
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	52	#6	18'-10"	_____
h1(E)	31	#6	14'-8"	_____
h2(E)	12	#6	12'-11"	_____
h3(E)	30	#6	29'-8"	_____
h4(E)	27	#6	33'-10"	_____
h5(E)	10	#6	17'-5"	_____
h6(E)	10	#6	21'-7"	_____
v(E)	16	#5	6'-5"	_____
v1(E)	16	#5	7'-5"	_____
v2(E)	16	#5	10'-2"	_____
v3(E)	22	#5	10'-8"	_____
v4(E)	62	#5	14'-4"	_____
v5(E)	31	#5	12'-2"	_____
v6(E)	16	#5	10'-5"	_____
v7(E)	16	#5	9'-1"	_____
v8(E)	16	#5	9'-8"	_____
v9(E)	31	#5	9'-5"	_____
v10(E)	38	#5	8'-2"	_____
v11(E)	16	#5	6'-8"	_____
Concrete Structures			Cu Yd	146
Furnishing and Erecting Structural Steel			Pound	49,670
Stud Shear Connectors			Each	1,937
Reinforcement Bars, Epoxy Coated			Pound	8,890
Furnishing Soldier Piles (HP Section)			Foot	1,029
Driving Soldier Piles			Foot	1,029
Untreated Timber Lugging			Sq Ft	2,521
Concrete Sealer			Sq Ft	3,790
Geocomposite Wall Drain			Sq Yd	270
Micropiles – Wall			Each	41
Pipe Underdrains for Structure 4"			Foot	384

 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = AlexSc	DESIGNED = BRL	REVISED =
		CHECKED = AJS	REVISED =
	PLOT SCALE =	DRAWN = BJF	REVISED =
	PLOT DATE = 7/9/2021	CHECKED = KRB	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL DETAILS - 3
STRUCTURE NO. 099-6301

F.A.S.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	595
		CONTRACT NO. 2584-1021		
ILLINOIS		FED. AID. PROJECT		

TRANSYSTEMS

USER NAME = amkluver	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = NTS	DRAWN -	REVISED -
PLOT DATE = 6/23/2023	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

[illegible]



Date 11/20/17

SECTION _____ LOCATION I-80 & Houbolt Interchange

STRUCT. NO. _____ Station _____	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft
BORING NO. _____ SW-01 Station _____ 5008+92 Offset _____ 6.00ft RT Ground Surface Elev. _____ 584.00 ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: First Encounter _____ 577.0 ft Upon Completion _____ 577.0 ft After _____ Hrs. _____ ft

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS – 1
STRUCTURE NO. 099-6301

USER NAME = amkluver	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = NTS	DRAWN -	REVISED -
PLOT DATE = 6/23/2023	CHECKED -	REVISED -

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	595
CONTRACT NO. 62R27				
ILLINOIS		FED. AID PROJECT		



Date 11/20/17

SECTION _____ LOCATION I-80 & Houbolt Interchange

STRUCT. NO. _____	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
	P	O	S	I		P	O	S	I
	T	W	S	T		T	W	S	T
BORING NO. _____ SW-02	H	S	Qu		Groundwater Elev.: _____	H	S	Qu	
Station _____ 5007+25					First Encounter _____ 569.4 ft				
Offset _____ 14.00ft LT					Upon Completion _____ 569.4 ft				
Ground Surface Elev. _____ 582.94 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. _____ ft	(ft)	(/6")	(tsf)	(%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS – 1
STRUCTURE NO. 099-6301

USER NAME = amkluver	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = NTS	DRAWN -	REVISED -
PLOT DATE = 6/23/2023	CHECKED -	REVISED -

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	595
CONTRACT NO. 62R27				
ILLINOIS		FED. AID PROJECT		



**Illinois Department
of Transportation**
Division of Highways
Interra, Inc.

ROCK CORE LOG

Date 11/20/17

ROUTE Houbolt Road DESCRIPTION Slope Wall Boring LOGGED BY Eric Slusser

SECTION _____ LOCATION I-80 & Houbolt Interchange

COUNTY Will County CORING METHOD NQ Conventional

STRUCT. NO. _____ CORING BARREL TYPE & SIZE NC
Station _____

BORING NO. SW-02 Core Diameter 1.8 in
Station _____ Top of Rock Elev. 554.94 ft
Offset _____ Begin Core Elev. 554.94 ft

Ground Surface Elev. 582.94 ft

Light gray (10YR 7/1) and dark gray (10YR 3/1) DOLOMITIC LIMESTONE
Hard, weathered throughout the run
RQD=45.2%, poor rock quality

554.94

D
E
P
T
H

-30

-35

544.94

-40

-45

C
O
R
E

R
E
C
O
V
E
R
Y

R
Q
D

C
O
R
E

T
I
M
E

S
T
R
E
N
G
T
H

End of Boring

Color pictures of the cores _____

Cores will be stored for examination until 2021

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME * AlexSc
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CHECKED - AJS
PLOT SCALE *
DRAWN - BJF
PLOT DATE * 7/9/2021
CHECKED - KRB
REVISED -

DESIGNED -
CHECKED -
DRAWN -
CHECKED -
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS - 2
STRUCTURE NO. 099-6301**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	597
ILLINOIS FED. AID PROJECT				

TRANSYSTEMS

USER NAME = amkluver
DESIGNED -
CHECKED -
PLOT SCALE = NTS
DRAWN -
PLOT DATE = 6/23/2023
CHECKED -
REVISED -

DESIGNED -
CHECKED -
DRAWN -
CHECKED -
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	596
ILLINOIS FED. AID PROJECT				

Benchmark Information: Chiseled square on the top westerly side of concrete foundation for cantilevered traffic signal at the southwest quadrant of Houbolt Road and I-80 West Bound on ramp. Elev. 588.31.

Existing structure: None. Adjacent existing structure SN099-0301 and SN099-0302, I-80 eastbound and westbound respectively. Parallel 146'-0" simple span 60" steel plate girder bridges on integral abutments with 1:2 slope walls.

Traffic control: Staged.

Salvage: None.

LEGEND

Designates front face of wall Control Point. See Wall Geometry Control Table. Work this legend with table on sheet 2 of 19

P# Panel Number
Note: Offsets are measured from Proposed NB PGL Houbolt Road to front face of wall

INDEX OF SHEETS

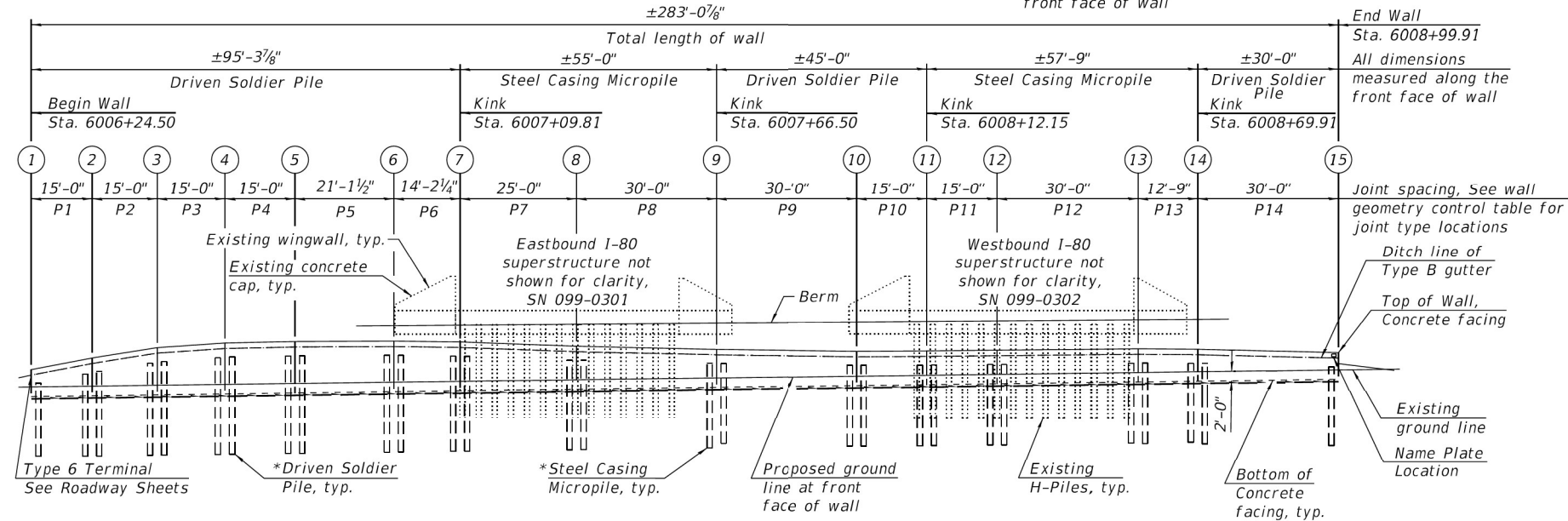
- 1 General Plan and Elevation
- 2 General Data and Details
- 3 Removal Plan
- 4-5 Wall Plan and Elevation
- 6-8 Wall Details
- 9-10 Soil Boring Logs
- 11-16 Existing Structure

SCOPE OF WORK

1. Remove portion of Slope Wall
2. Support Remaining Slope Wall and Embankment for Wall Construction
3. Construct Micropiles Wall and Concrete Facing
4. Construct Driven Soldier Pile Wall and Concrete Facing
5. Construct Anchorage Slab
6. Construct Constant Slope Barrier

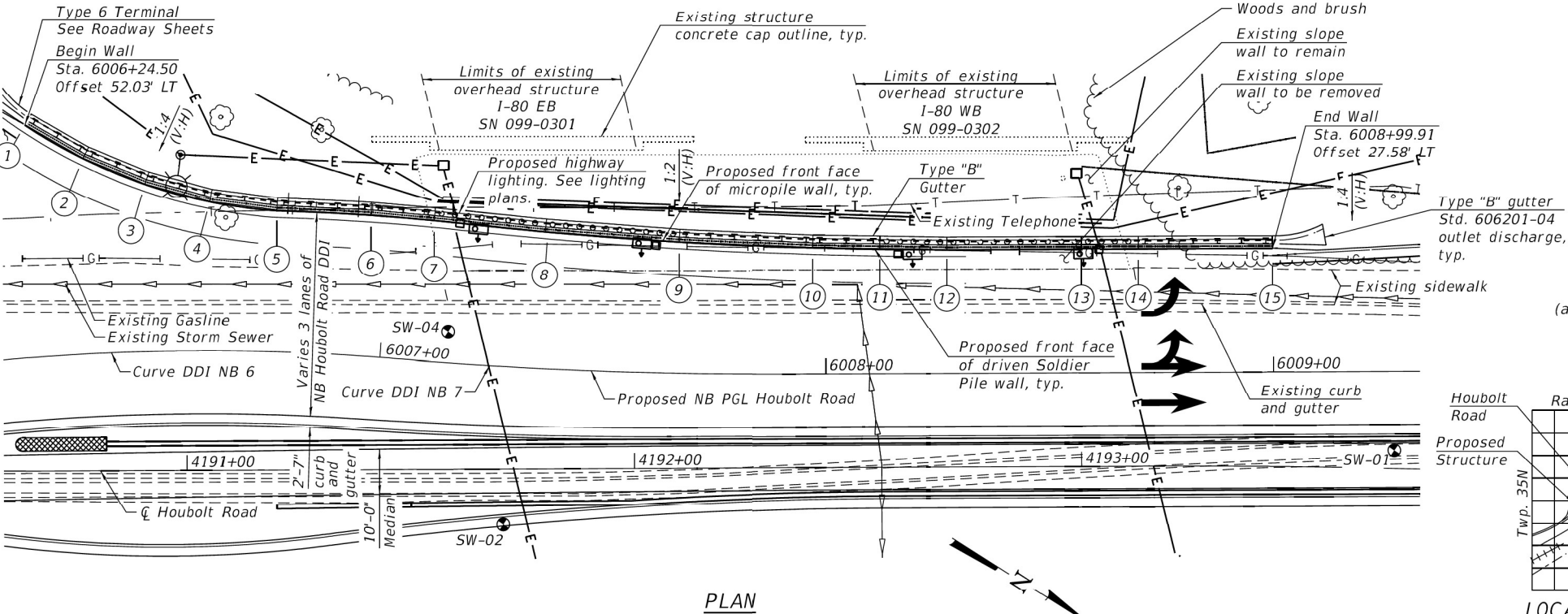
ANTICIPATED CONSTRUCTION SEQUENCE

1. Remove Slope Wall to limits shown while supporting remaining slope wall and embankment.
2. Install Micropile and Driven Soldier Pile Walls
3. Install Untreated Timber Lagging, Geocomposite Wall Drain, and Underdrain
4. Construct Concrete Facing
5. Install Concrete Gutter
6. Construct Anchorage Slab and Constant Slope Barrier



*Driven Soldier Pile and Steel Casing Micropile details shown on sheets 4 and 5 of 16.

ELEVATION
(Looking west at front face of wall)



PLAN

CURVE DDI NB6

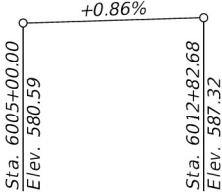
P.I. Sta. = 6006+29.35
 $\Delta = 16^\circ 59' 46''$ (RT)
 $D = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 74.71'$
 $L = 148.32'$
 $E = 5.55'$
P.C. Sta. = 6005+54.64
P.T. Sta. = 6007+02.96

CURVE DDI NB7

P.I. Sta. = 6007+46.59
 $\Delta = 4^\circ 59' 46''$ (LT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 43.63'$
 $L = 87.20'$
 $E = 0.95'$
P.C. Sta. = 6007+02.96
P.T. Sta. = 6007+90.16

DESIGN STRESSES

$f'_c = 3,500$ psi (Concrete facing)
 $f'_c = 5,000$ psi (Grout)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Structural Steel) AASHTO M270 Gr. 36
 $f_y = 50,000$ psi (Soldier Pile) AASHTO M270 Gr. 50
 $f_y = 80,000$ psi (Steel Casing-Micro Pile)

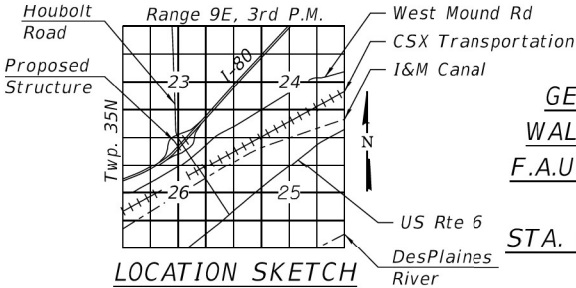


PROFILE GRADE

(along centerline proposed DDI NB Houbolt Rd)

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
WALL AT HOUBOLT ROAD AND I-80
F.A.U. 325 SECTION 16-00503-00-PV
WILL COUNTY
STA. 6006+24.50 TO STA. 6008+99.91
STRUCTURE NO. 099-6302**



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME = AlexSc
PLOT SCALE =
PLOT DATE = 7/9/2021

DESIGNED - BRL
CHECKED - AJS
DRAWN - BJF
CHECKED - BRL

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 099-6302**

SHEET NO. 1 OF 16 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	604
CONTRACT NO. 2584-1021				

ILLINOIS FED. AID PROJECT

TRANSYSTEMS

USER NAME = amkluver
PLOT SCALE = NTS
PLOT DATE = 6/23/2023

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302**

SHEET SE1-39 OF SE1-48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	597
CONTRACT NO. 62R27				

ILLINOIS FED. AID PROJECT

MODEL: Drawing Views
FILE NAME: pw:/transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/23-Structural/099-0301 & 099-0302 Existing/0990301EX-62R27-001-Existing Plans 40.dgn

FILE NAME: = SA\\JOL\\44802-4499\\4478\\001\\Micros\\CDD\\Sheets\\0018-XXX-XXX_7002-GD.dgn

GENERAL NOTES

1. Calculated weight of Structural Steel AASHTO M270 Gr. 36 = 27,290 Pounds. (See Note 7 Sheet 8.)
Calculated weight of Structural Steel Connections = 5,830 Pounds. (See Note 8 Sheet 8.)
Total, paid as Furnishing and Erecting Structural Steel = 33,120 Pounds.
2. Structural steel plates may be AASHTO M270 Grade 36.
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
6. Concrete Sealer shall be applied to the concrete facing. Concrete Sealer limits shall extend from the bottom of Concrete facing at the front face to the top and return over the top and down 1'-6" on the rear face.
7. Backfill limits of excavation within 2'-0" of structures and beneath roadway with compacted Granular Backfill for Structures, paid as Granular Backfill for Structures. Remaining backfill outside those limits shall be provided as directed by Engineer and according to Section 502 of the Standard Specifications. Remaining backfill associated with Structure Excavtion shall be included in the cost of Structure Excavation.
8. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
9. The Concrete Facing shall be poured before all final grading work behind and above the wall are complete.
10. Any removal of the existing slope wall or excavation and backfill beyond limits noted to complete grading or installation of the proposed retaining wall is included in the cost of Slope Wall Removal and Micropiles, Lateral. Removal shall be approved by the engineer.

LATERAL DESIGN LOADS	
Elevation	Equivalent Fluid Pressure
594.00 to 580.00	49.2 psf
580.00 to 567.00	39.2 psf

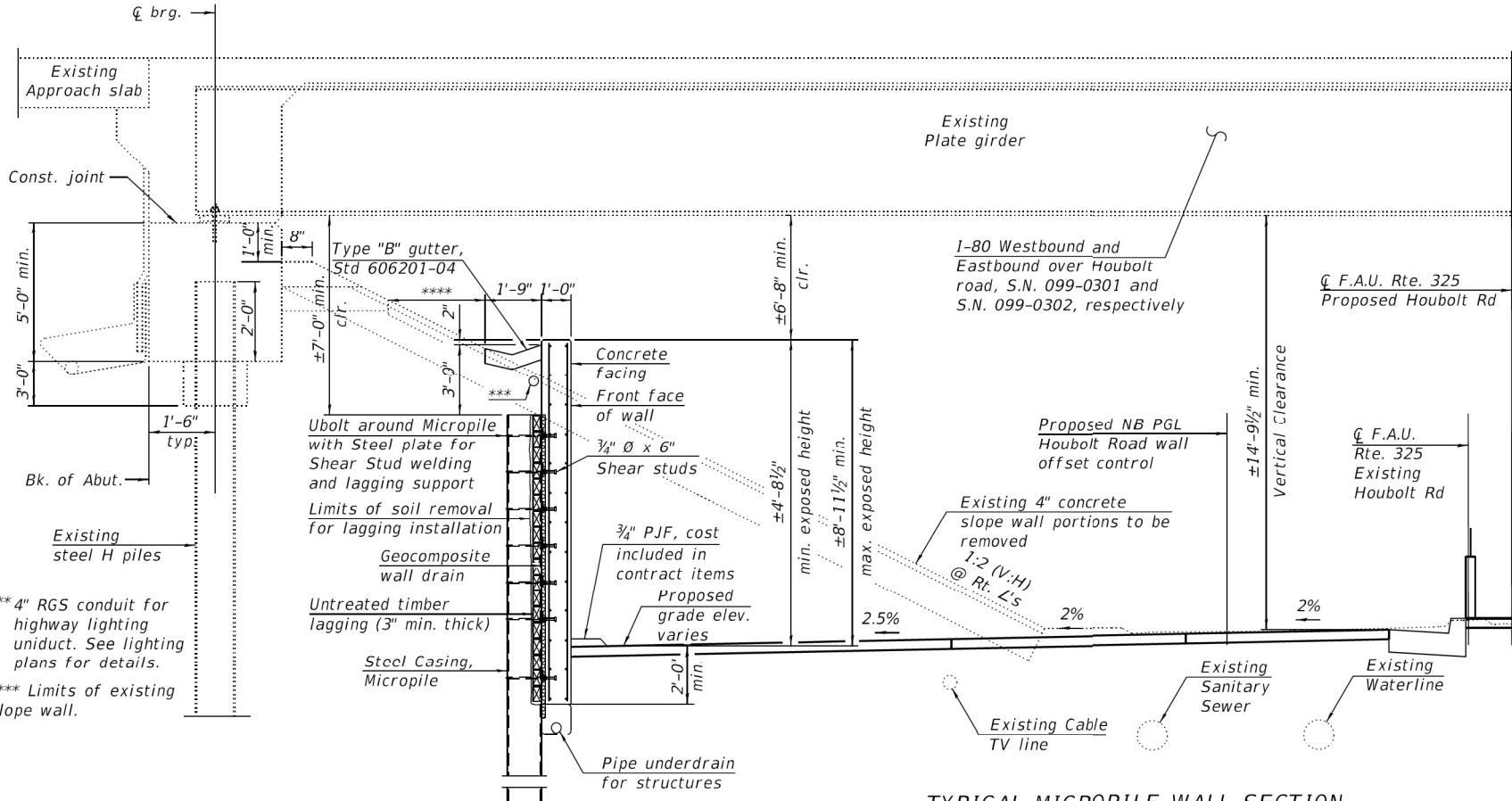
Notes:

1. Lateral design loads are reported as service Equivalent Fluid Pressure loads.
2. Maximum allowable deflection at top of pile is 1 inch under lateral design loads.

WALL GEOMETRY CONTROL TABLE - S.N. 099-6302							
Wall Location	Wall Type	Control Point	Station Alignment	** Offset LT, ft	Elevation Top of Concrete Facing, ft	Panel Point Spacing, ft	Joint, E=Exp., C=Constr.
Begin Wall	Driven Soldier Pile	1	6006+24.5	52.03	584.28	15.00	C
Kink	Driven Soldier Pile	2	6006+35.91	43.75	586.46	15.00	C
Kink	Driven Soldier Pile	3	6006+48.51	37.48	588.71	15.00	C
Kink	Driven Soldier Pile	4	6006+61.99	33.38	589.71	15.00	E
Kink	Driven Soldier Pile	5	6006+75.98	31.69	589.96	21.13	C
Kink	Driven Soldier Pile	6	6006+95.86	31.69	589.96	14.19	C
Kink	Micro Pile	7	6007+09.81	31.50	589.71	25.00	E
Kink	Micro Pile	8	6007+35.59	30.60	588.71	30.00	C
Kink	Driven Soldier Pile	9	6007+66.5	29.38	587.96	30.00	E
Kink	Driven Soldier Pile	10	6007+97.16	28.17	587.46	15.00	C
Kink	Micro Pile	11	6008+12.15	27.88	587.46	15.00	E
Kink	Micro Pile	12	6008+27.15	27.58	587.46	30.00	C
Kink	Micro Pile	13	6008+57.15	27.58	587.46	12.75	C
Kink	Driven Soldier Pile	14	6008+69.91	27.58	587.46	30.00	E
End Wall		15	6008+99.91	27.58	587.14	*283.06	C

* Total Wall Length

** Offset measured from NB PGL.



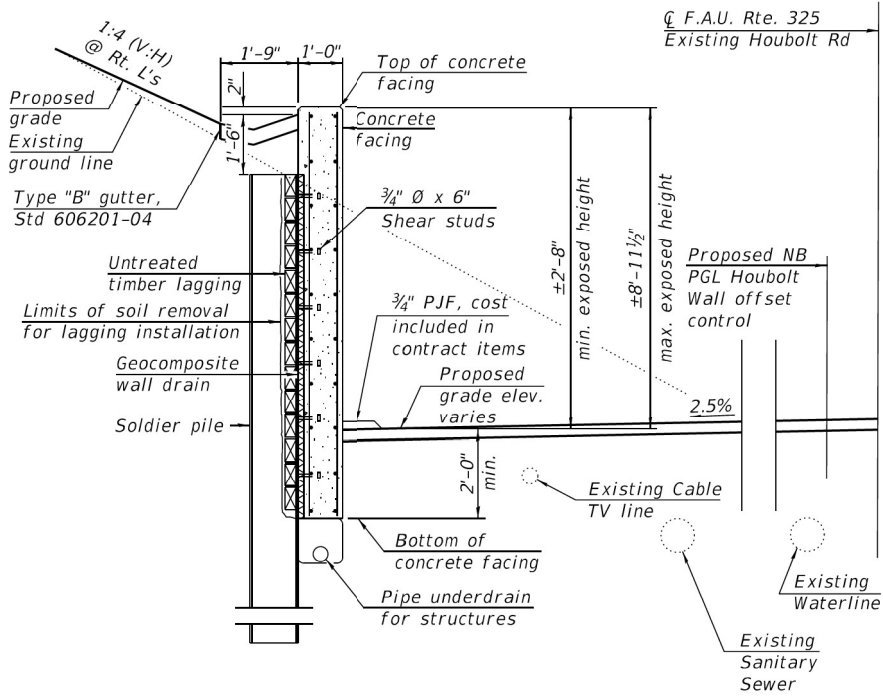
TYPICAL MICROPILE WALL SECTION
(Looking North)

STATION 6006+24 TO 6008+99
BUILT 202X BY
ILLINOIS DEPARTMENT OF
TRANSPORTATION
FAU 325 SECTION
16-00503-00-PV
STRUCTURE NO. 099-6302

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall Removal	Sq Yd	187
Structure Excavation	Cu Yd	240
Concrete Structures	Cu Yd	133
Furnishing and Erecting Structural Steel	Pounds	33,120
Stud Shear Connectors	Each	1,359
Reinforcement Bars, Epoxy Coated	Pound	7,510
Name Plate	Each	1
Furnishing Soldier Piles (HP Section)	Foot	1,053
Driving Soldier Piles	Foot	1,053
Untreated Timber Lagging	Sq Ft	2,193
Concrete Sealer	Sq Ft	3,427
Granular Backfill for Structures	Cu Yd	33
Geocomposite Wall Drain	Sq Yd	230
Concrete Gutter, Type B	Foot	308
Micropiles - Wall	Each	37
Pipe Underdrains for Structures 4"	Foot	330



TYPICAL DRIVEN SOLDIER PILE WALL SECTION
(Looking North)



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 184-001273

USER NAME *	AlexSc	DESIGNED -	BRL	REVISED -	
		CHECKED -	AJS	REVISED -	
PLOT SCALE *		DRAWN -	BJF	REVISED -	
PLOT DATE *	7/9/2021	CHECKED -	BRL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA AND DETAILS
STRUCTURE NO. 099-6302

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	605
CONTRACT NO. 2584-1021				
ILLINOIS FED. AID PROJECT				

TRANSYSTEMS

USER NAME =	amkluver	DESIGNED -	REVISED -
		CHECKED -	REVISED -
PLOT SCALE =	NTS	DRAWN -	REVISED -
PLOT DATE =	6/23/2023	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

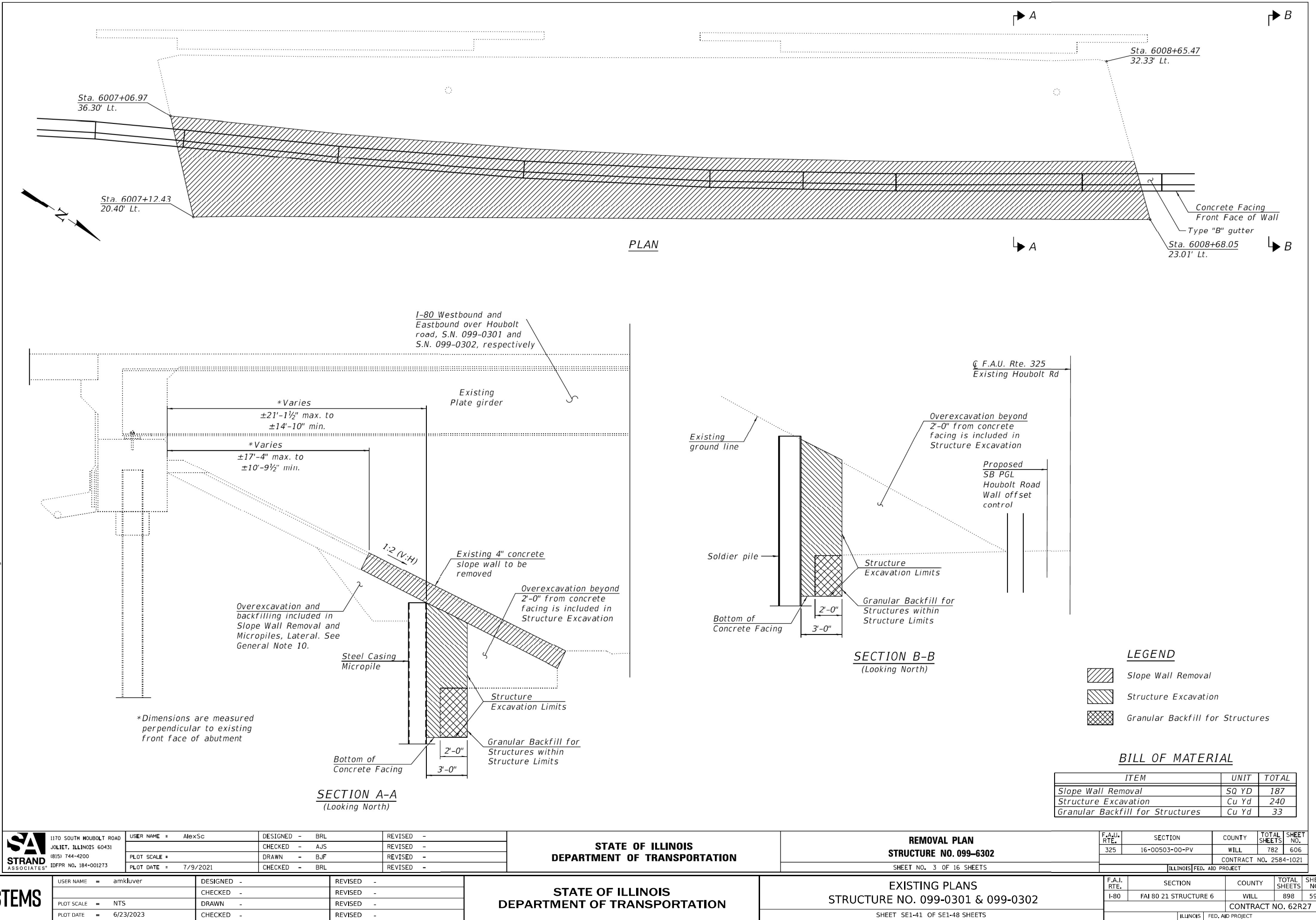
EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-40 OF SE1-48 SHEETS

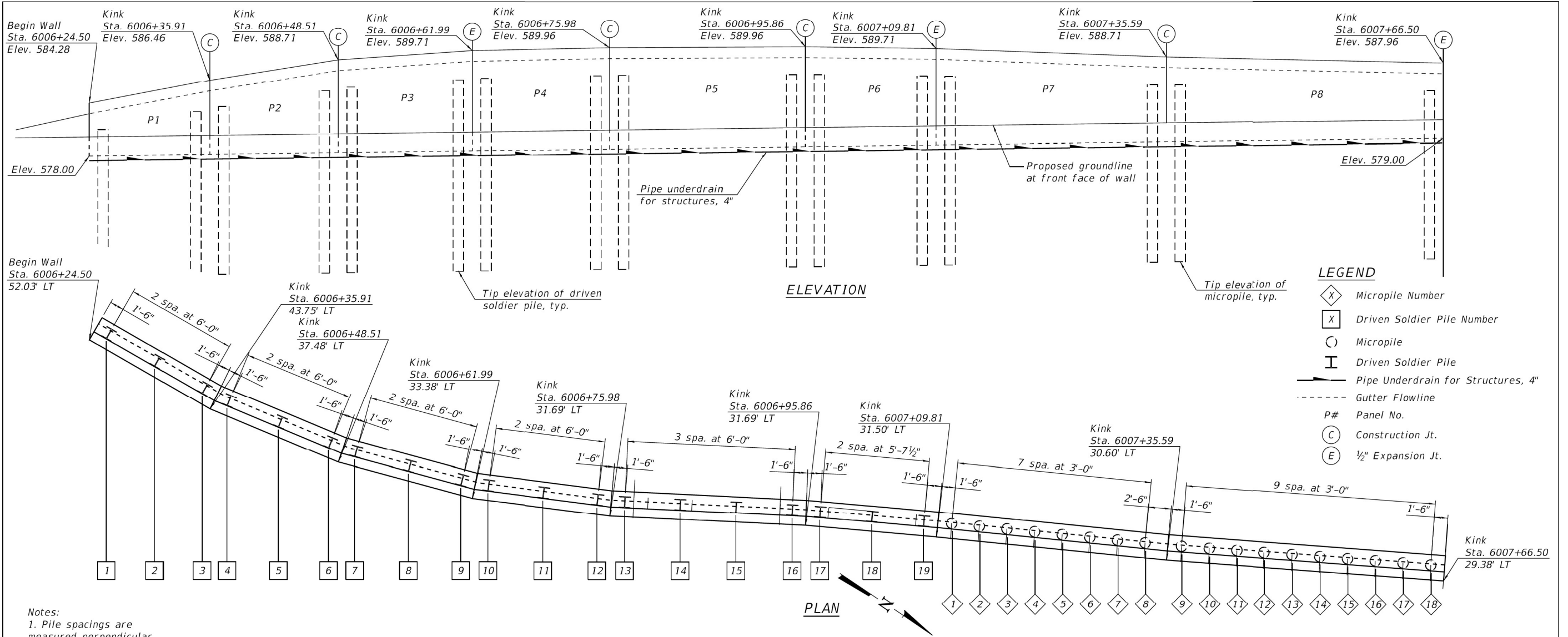
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	598
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				

MODEL: Drawing Views
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FILE NAME: SA\\JOL\\44800-4499\\4478\\001\\Micros\\CAD\\Sheets\\0018-XX-XXX\\7003-RE\\01\\A.dgn



MODEL: Drawing Views
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Notes:
1. Pile spacings are measured perpendicular to the rear face of the concrete facing.
2. Stations and offsets shown in plan and elevation drawings are to front face of concrete facing.

MICROPILE SUMMARY TABLE 1 - SN 099-6302									
Pile Number	Station at Centerline of Pile	Offset to Centerline of Pile, ft	Panel Number	Micropile Designation O.D. Casing, inches	Minimum Required Section, inches	Micropile Length, ft	Bottom Pile Tip Elevation, ft	Top Pile Elevation, ft	# of Stud Shear Connectors
1	6007+11.40	-33.12	7	11.875	55.29	31.00	555.71	586.71	36.00
2	6007+14.50	-33.04	7	11.875	55.29	31.00	555.71	586.71	36.00
3	6007+17.60	-32.94	7	11.875	55.29	31.00	555.71	586.71	36.00
4	6007+20.70	-32.84	7	11.875	55.29	31.00	555.71	586.71	36.00
5	6007+23.80	-32.73	7	11.875	55.29	31.00	555.71	586.71	36.00
6	6007+26.90	-32.61	7	11.875	55.29	31.00	555.71	586.71	36.00
7	6007+30.00	-32.48	7	11.875	55.29	31.00	555.71	586.71	36.00
8	6007+32.32	-32.38	7	11.875	55.29	31.00	555.71	586.71	36.00
9	6007+37.18	-32.18	8	11.875	55.29	30.00	555.71	585.71	32.00
10	6007+40.28	-32.10	8	11.875	55.29	30.00	555.71	585.71	32.00
11	6007+43.38	-32.01	8	11.875	55.29	30.00	555.71	585.71	32.00
12	6007+46.48	-31.90	8	11.875	55.29	30.00	555.71	585.71	32.00
13	6007+49.57	-31.79	8	11.875	55.29	30.00	555.71	585.71	32.00
14	6007+52.67	-31.67	8	11.875	55.29	30.00	555.71	585.71	32.00
15	6007+55.76	-31.54	8	11.875	55.29	30.00	555.71	585.71	32.00
16	6007+58.66	-31.40	8	11.875	55.29	30.00	555.71	585.71	32.00
17	6007+61.95	-31.25	8	11.875	55.29	30.00	555.71	585.71	32.00
18	6007+65.04	-31.09	8	11.875	55.29	30.00	555.71	585.71	32.00

DRIVEN SOLDIER PILE SUMMARY TABLE 1 - SN 099-6302									
Pile Number	Station at Centerline of Pile	Offset to Centerline of Pile, ft	Panel Number	Driven Soldier Pile, HP Size	Minimum Required Section, inches	Driven Soldier Pile Length, ft	Bottom Pile Tip Elevation, ft	Top Pile Elevation, ft	# of Stud Shear Connectors
1	6006+26.45	52.51	1	HP14x89	131.0	30.0	554.79	584.79	8
2	6006+30.99	49.18	1	HP14x89	131.0	30.0	554.79	584.79	8
3	6006+35.50	45.95	1	HP14x89	131.0	30.0	554.79	584.79	8
4	6006+37.85	44.53	2	HP14x89	131.0	33.0	554.04	587.04	11
5	6006+42.85	42.00	2	HP14x89	131.0	33.0	554.04	587.04	11
6	6006+47.79	39.58	2	HP14x89	131.0	33.0	554.04	587.04	11
7	6006+50.34	38.57	3	HP14x89	131.0	33.0	555.04	588.04	11
8	6006+55.70	36.91	3	HP14x89	131.0	33.0	555.04	588.04	11
9	6006+60.96	35.34	3	HP14x89	131.0	33.0	555.04	588.04	11
10	6006+63.64	34.78	4	HP14x89	131.0	33.0	555.29	588.29	11
11	6006+69.21	34.07	4	HP14x89	131.0	33.0	555.29	588.29	11
12	6006+74.70	33.44	4	HP14x89	131.0	33.0	555.29	588.29	11
13	6006+77.46	33.27	5	HP14x89	131.0	33.0	555.29	588.29	11
14	6006+83.08	33.20	5	HP14x89	131.0	33.0	555.29	588.29	11
15	6006+88.71	33.20	5	HP14x89	131.0	33.0	555.29	588.29	11
16	6006+94.41	33.27	5	HP14x89	131.0	33.0	555.29	588.29	11
17	6006+97.25	33.27	6	HP14x89	131.0	33.0	555.29	588.29	11
18	6007+02.52	33.20	6	HP14x89	131.0	33.0	555.29	588.29	11
19	6007+08.29	33.16	6	HP14x89	131.0	33.0	555.29	588.29	11



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PLOT SCALE =
DRAWN - BJF
PLOT DATE = 7/9/2021
CHECKED - BRL
REVISED -

DESIGNED - BRL
CHECKED - AJS
DRAWN - BJF
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REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL PLAN AND ELEVATION - 1
STRUCTURE NO. 099-6302

SHEET NO. 4 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	607
CONTRACT NO. 2584-1021				
ILLINOIS FED. AID PROJECT				

TRANSYSTEMS

USER NAME = amkluver
DESIGNED -
CHECKED -
PLOT SCALE = NTS
DRAWN -
PLOT DATE = 6/23/2023
CHECKED -
REVISED -

DESIGNED -
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REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-0301 & 099-0302

SHEET SE1-42 OF SE1-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	600
CONTRACT NO. 62R27				
ILLINOIS FED. AID PROJECT				