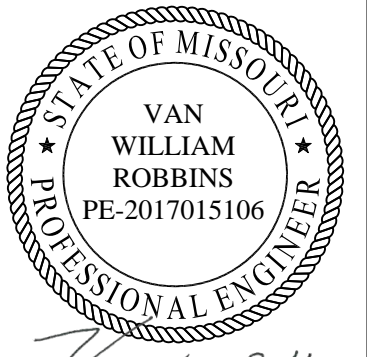


Note:  
See Civil Package 2: Early Grading for project  
reference points and project coordinate points.



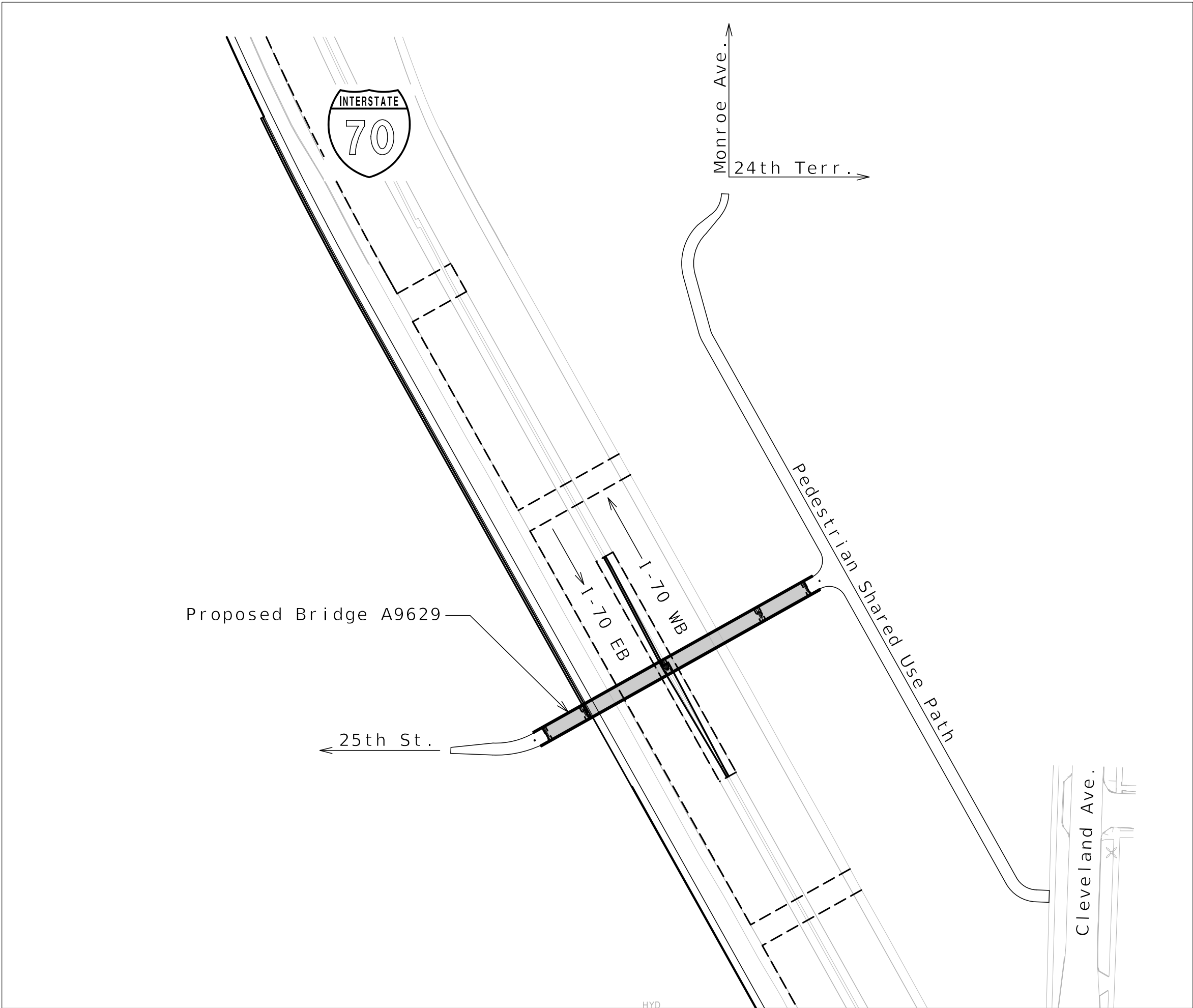
*Van W. Robbins*  
04-11-25

DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03-01
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9629

INDEX OF DRAWINGS

- B03-01 Title Sheet and Index
- B03-02 General Plan and Elevation
- B03-03 General Notes
- B03-04 Substructure Layout
- B03-05 Details of End Bent No. 1
- B03-06 Details of End Bent No. 1
- B03-07 Vertical Drain at End Bents
- B03-08 Details of Intermediate Bents
- B03-09 Details of End Bent No. 5
- B03-10 Details of End Bent No. 5
- B03-11 Framing Plan
- B03-12 NU-Girders-Spans (1-2) & (4-5)
- B03-13 NU-Girders-Spans (2-3) & (3-4)
- B03-14 Concrete Diaphragm at Intermediate Bents
- B03-15 Camber Diagram & Theoretical Slab Haunching Diagram
- B03-16 Theoretical Bottom of Slab Elevations
- B03-17 Slab Plan Showing Top Reinforcement
- B03-18 Slab Plan Showing Bottom Reinforcement
- B03-19 Slab Details
- B03-20 Pedestrian Curb Details
- B03-21 Light Anchorage Details
- B03-22 Decorative Pedestrian Fence Details
- B03-23 Details of Conduit System on Structure
- B03-24 As-Built Pile and Drilled Shaft Data
- B03-25 Boring Logs
- B03-26 Boring Logs
- B03-27 Boring Logs
- B03-28 Boring Logs

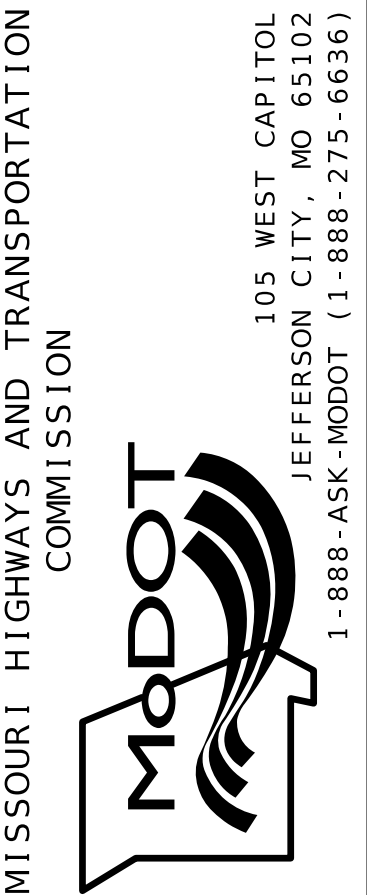


LOCATION SKETCH

Released For Construction  
Not to Scale  
Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

BRIDGE: 25TH STREET PEDESTRIAN BRIDGE  
OVER ROUTE 1-70

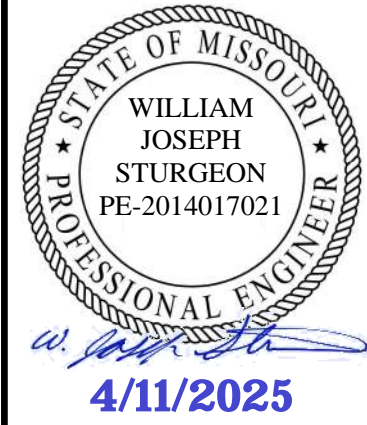
ROUTE 1-70 FROM ROUTE 1-670 TO ROUTE 40  
ABOUT 2.4 MILES EAST OF ROUTE 1-670  
TIE STATION 190+65.00 (C 1-70)











DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03-04
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO. A9629
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DATE	DESCRIPTION
04/11/25	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

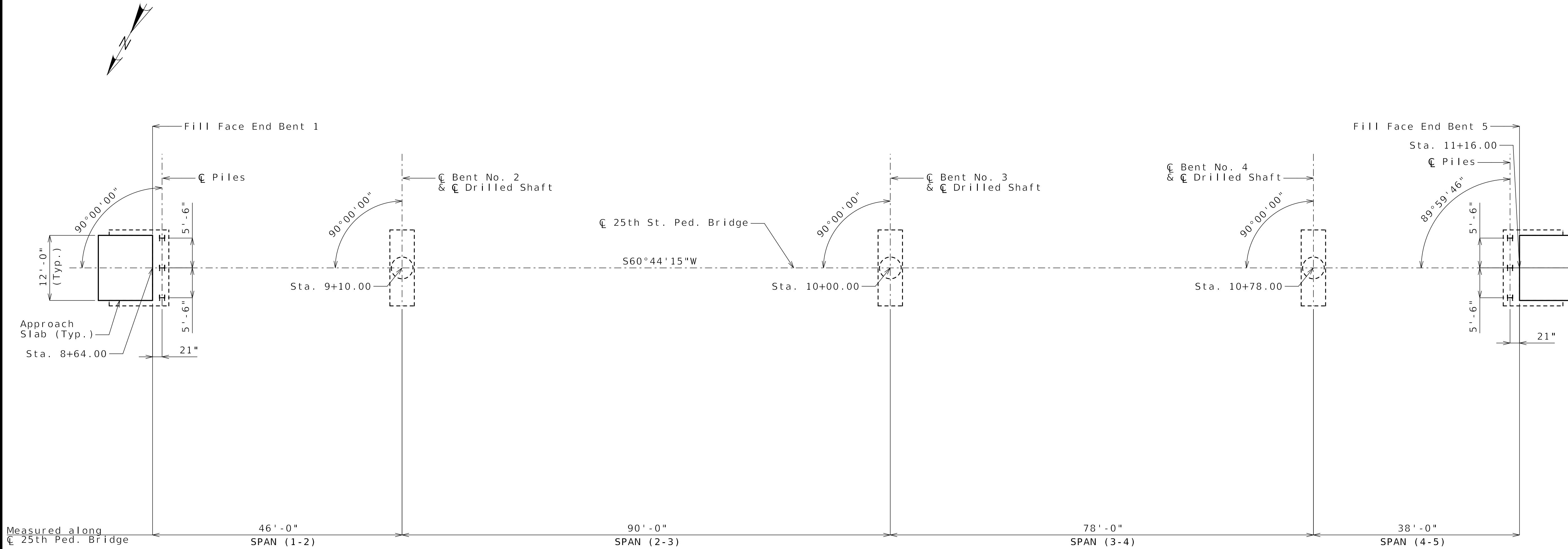
**MoDOT**

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

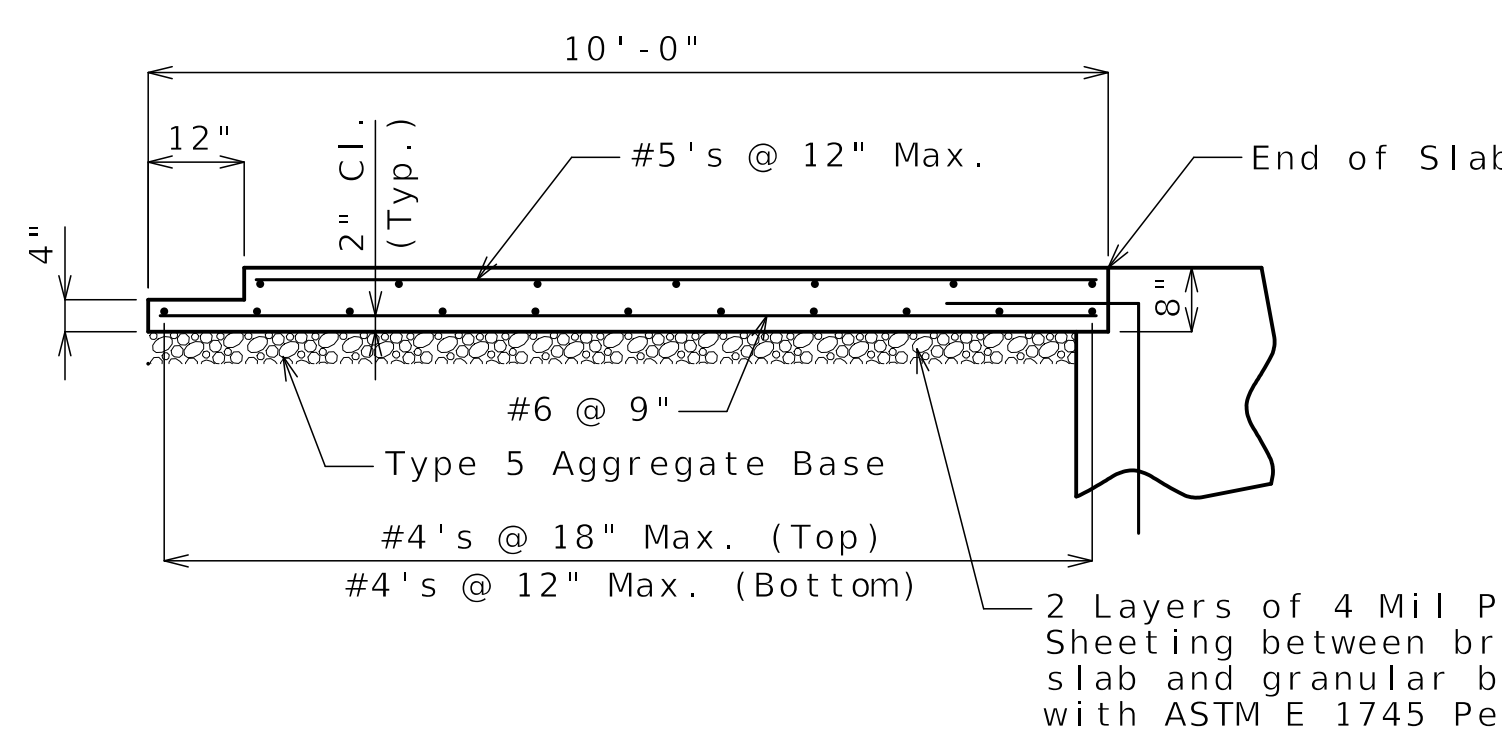
**CLARKSON RADMACHER**  
JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

**HNTB**



SUBSTRUCTURE LAYOUT



BRIDGE APPROACH SLAB DETAIL  
(1 required at End Bents No. 1 and 5)

Bridge Approach Slab Notes:  
All concrete for bridge approach slab shall be in accordance with Sec 503 ( $f'c=4,000$  psi).

The reinforcing steel in the bridge approach slab shall be epoxy coated Grade 60 with  $f_y=60,000$  psi.

The reinforcing steel in the bridge approach slab shall be continuous. The transverse reinforcing steel may be made continuous by providing a minimum lap splice of 23" for #4 bars.

Provide 3/4" joint filler between edge of approach slab and inside vertical face of bridge wingwall. Provide 2" joint filler at end of bridge approach slab adjacent to trail approach. All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

Released For Construction  
Not to Scale

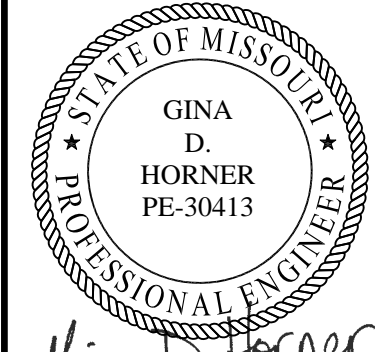
Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

Note:  
All dimensions are horizontal.

SUBSTRUCTURE LAYOUT







DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03-06
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9629

DATE	DESCRIPTION
04/11/25	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

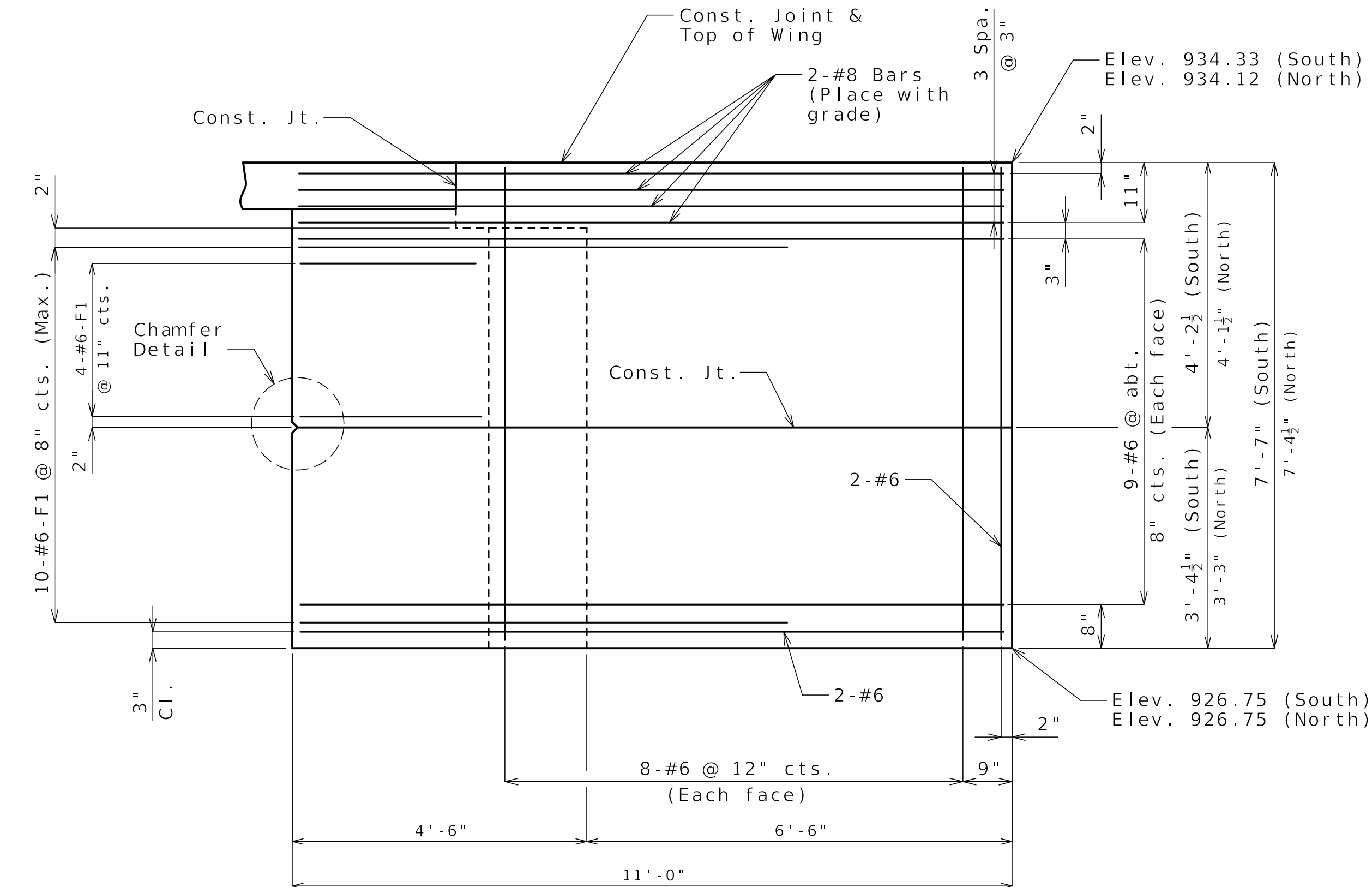
**MoDOT**

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

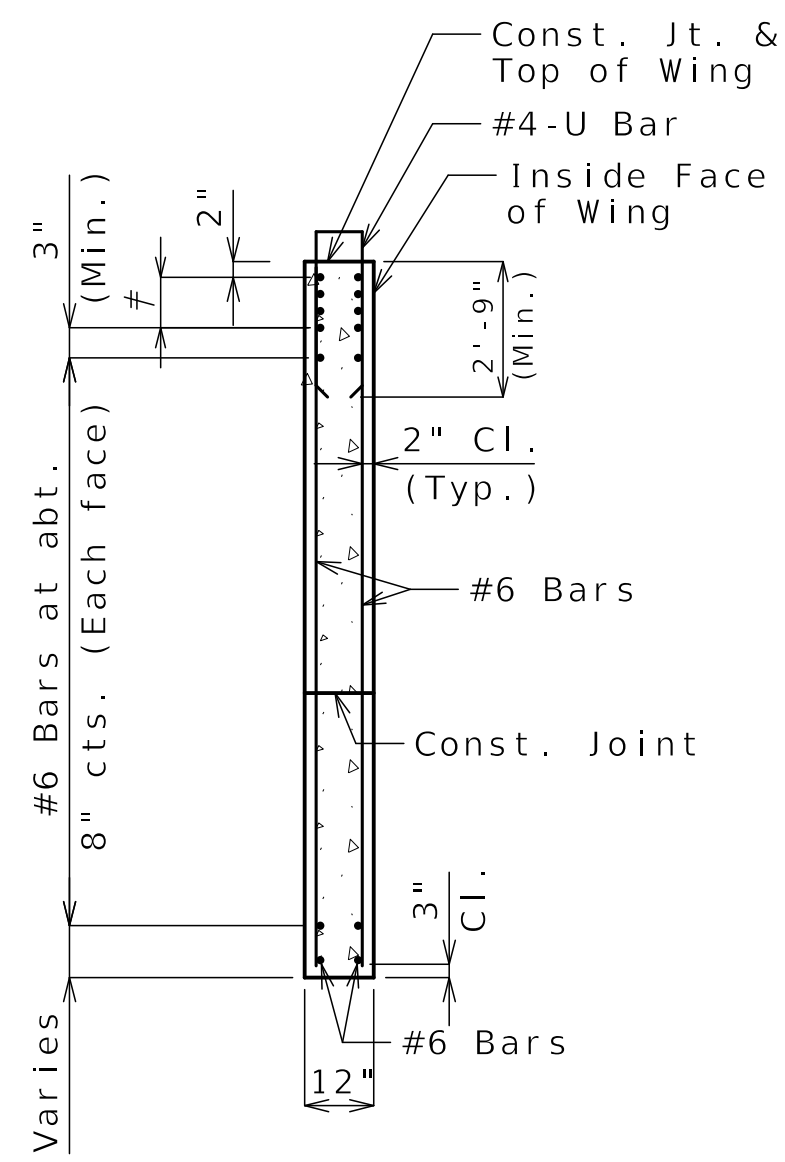
**CLARKSON RADMACHER**  
JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

**HNTB**

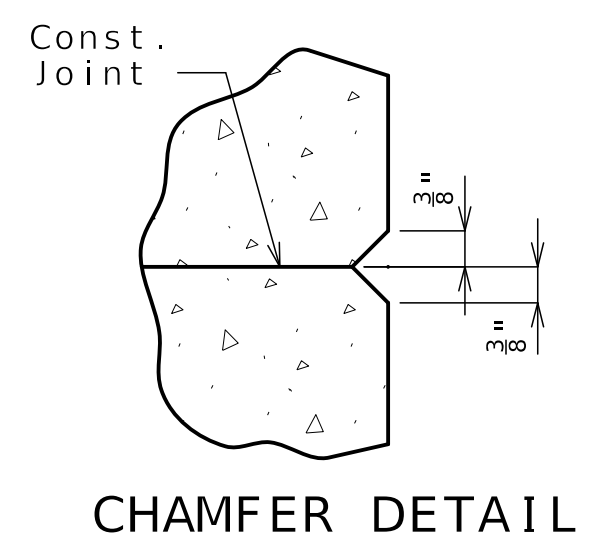


ELEVATION E-E  
(South wingwall shown, North wingwall similar)



TYPICAL SECTION  
THRU WING

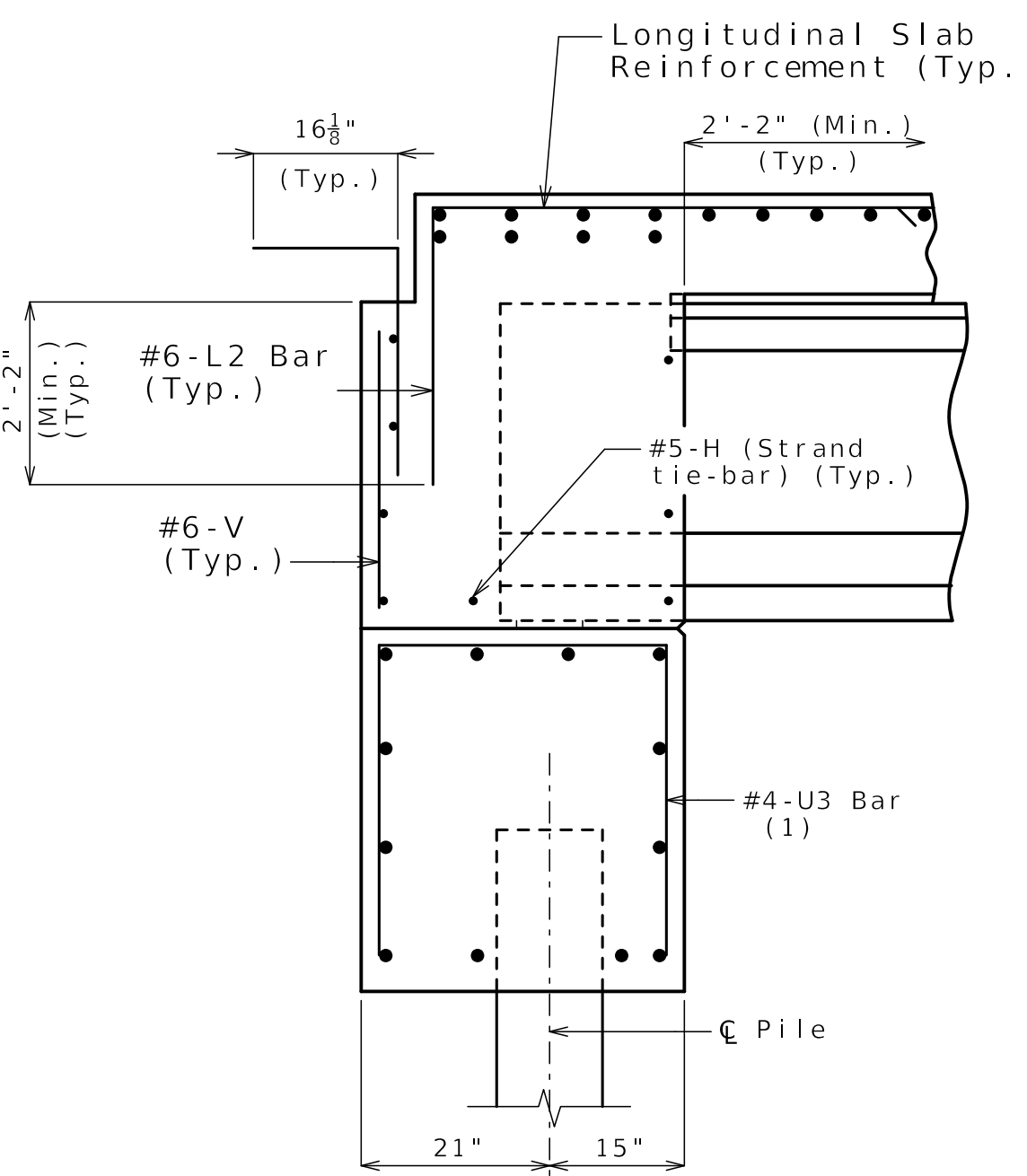
# 8 Bars at 3" cts.  
(Each face)(Place with grade)  
See Elevation E-E for number of bars



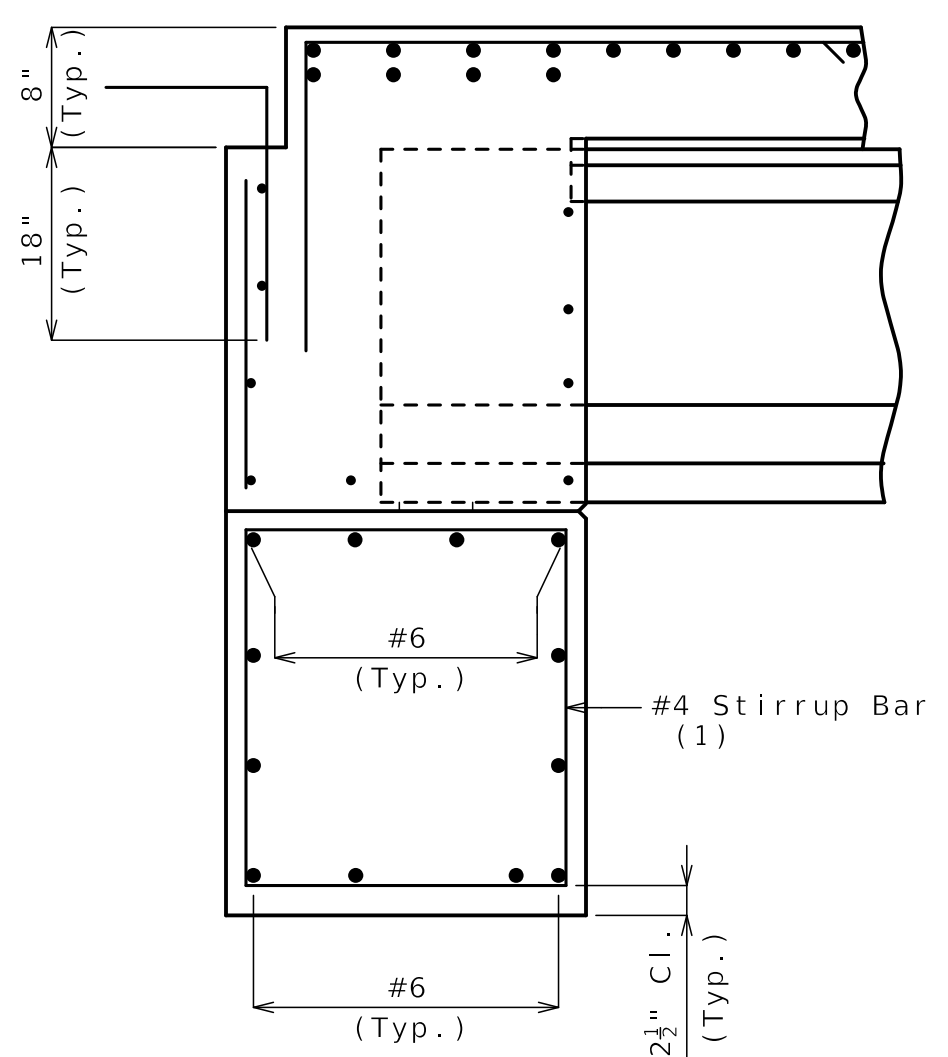
CHAMFER DETAIL

Released For Construction  
Not to Scale

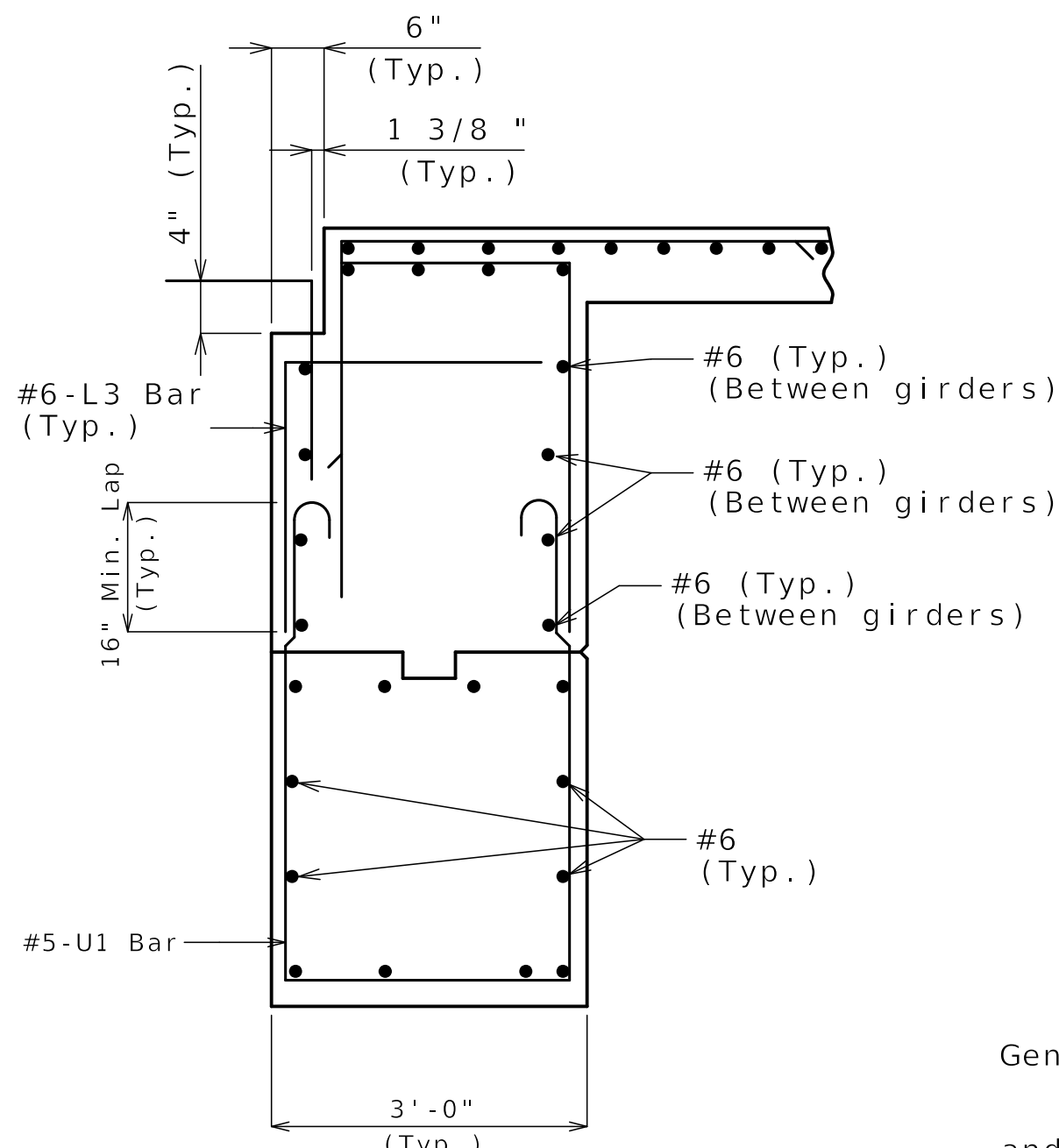
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Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED



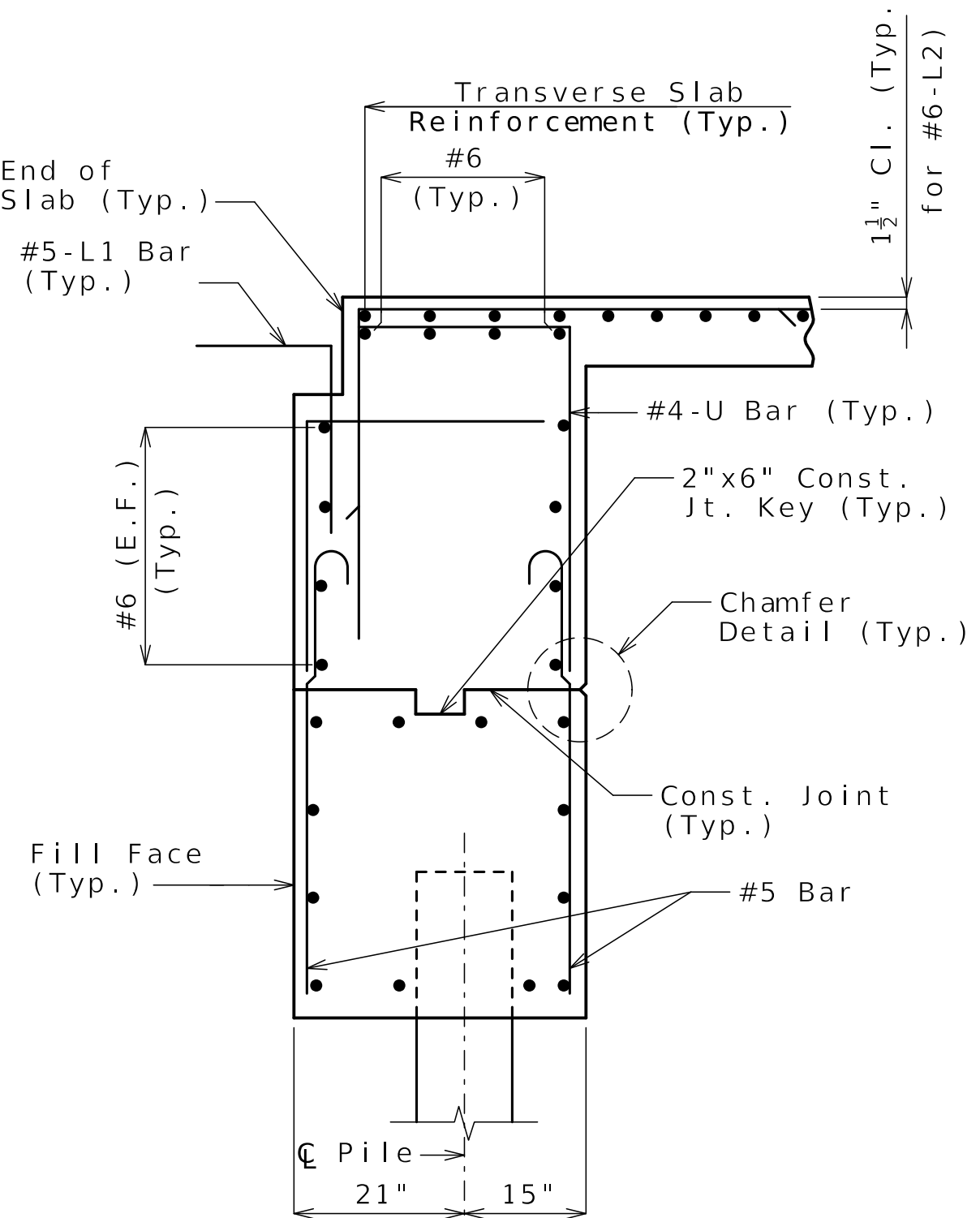
SECTION A-A



SECTION B-B



SECTION C-C



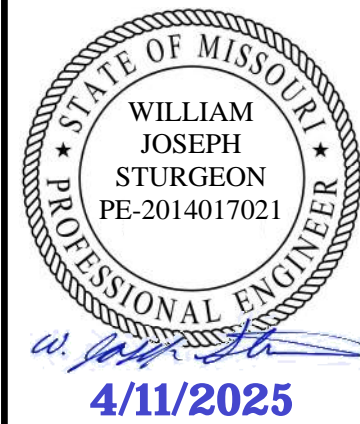
SECTION D-D

General Notes:  
Work this sheet with Sheet No. B03-05.  
For location of Sections A-A, B-B, C-C and D-D  
and Elevation E-E, see Sheet No. B03-06.  
For reinforcement of the pedestrian curb, see  
Sheet No. B03-20.

DETAILS OF END BENT NO. 1







DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03-08
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO. A9629
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DATE	DESCRIPTION
04/11/25	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

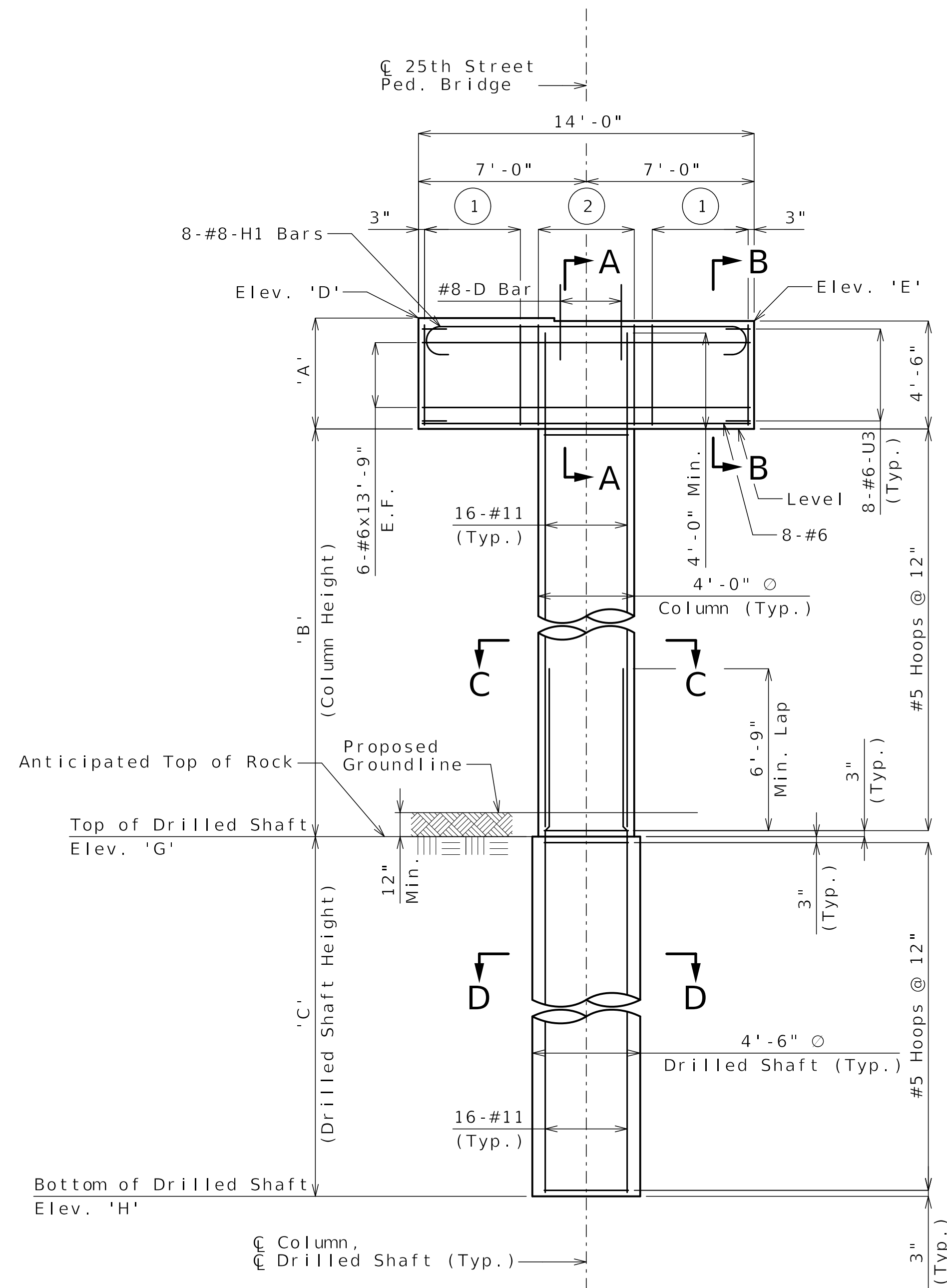
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

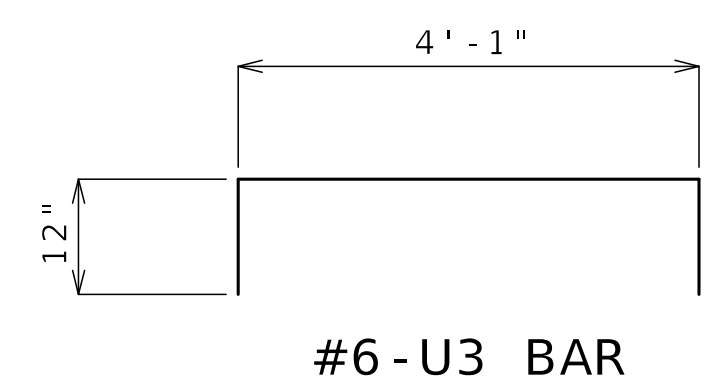
CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

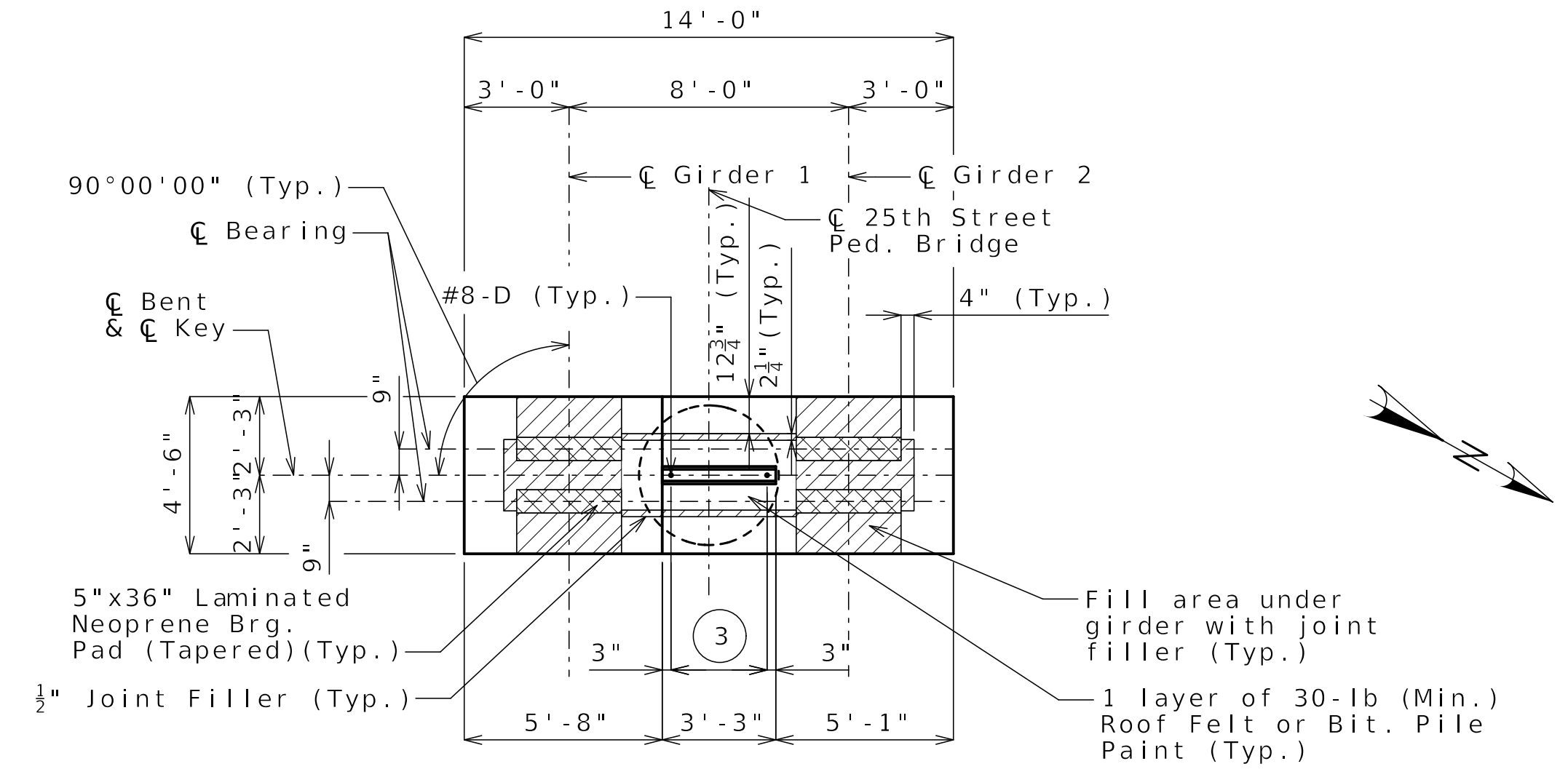
HNTB



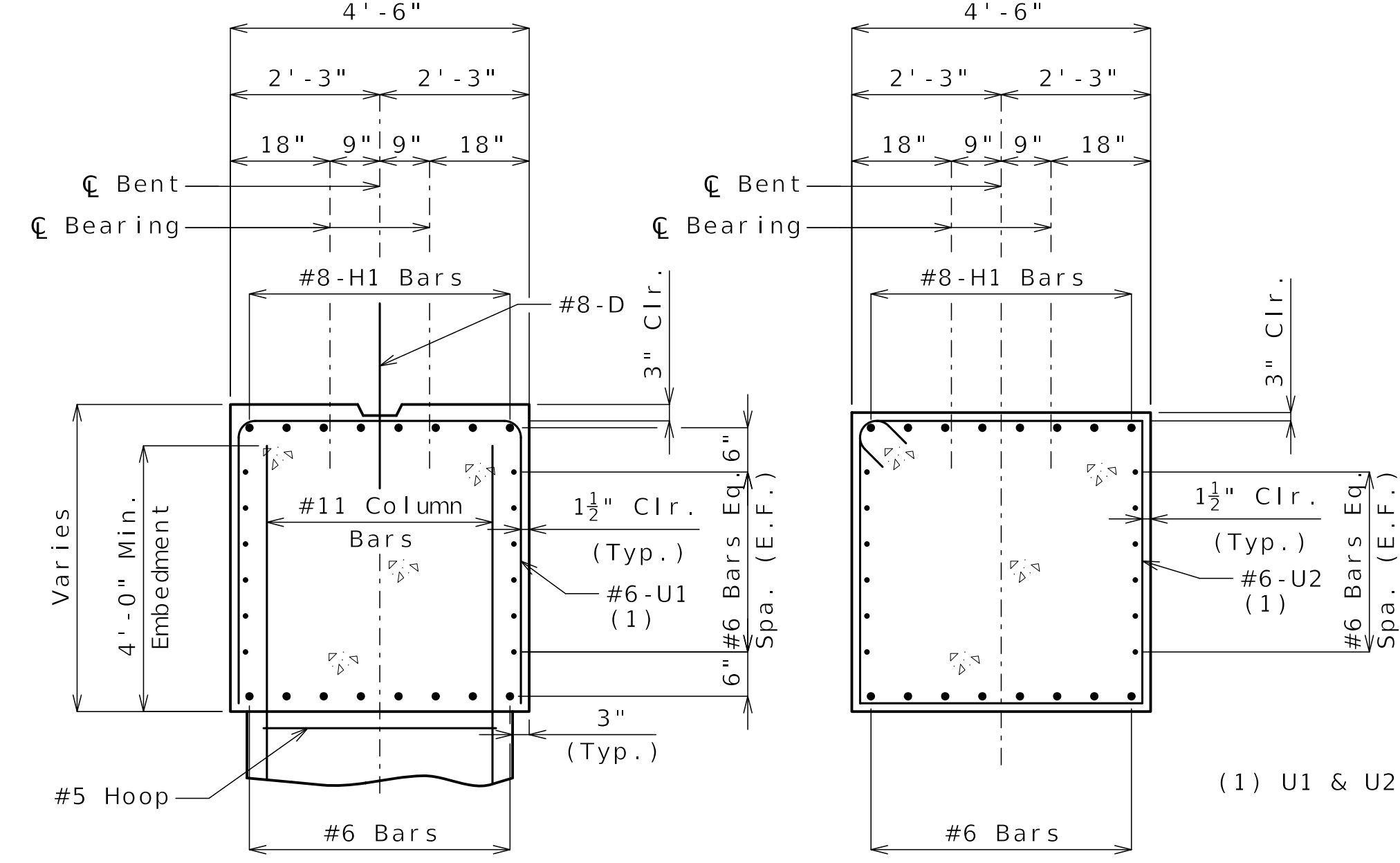
ELEVATION



- 1 5-#6-U2 @ 12" cts.
- 2 5-#6-U1 @ 12" cts.
- 3 5-#8-D @ Eq. Spa.

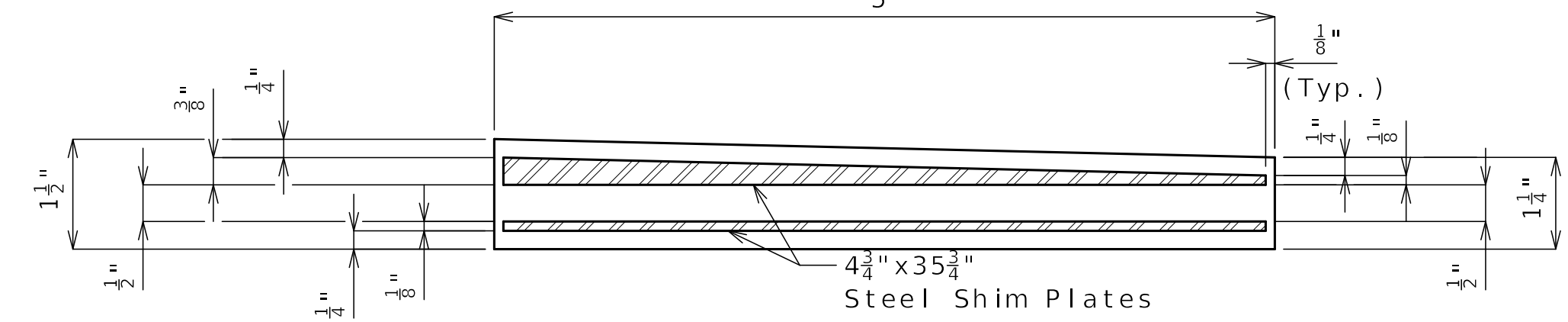


PLAN OF CAPBEAM



SECTION A-A

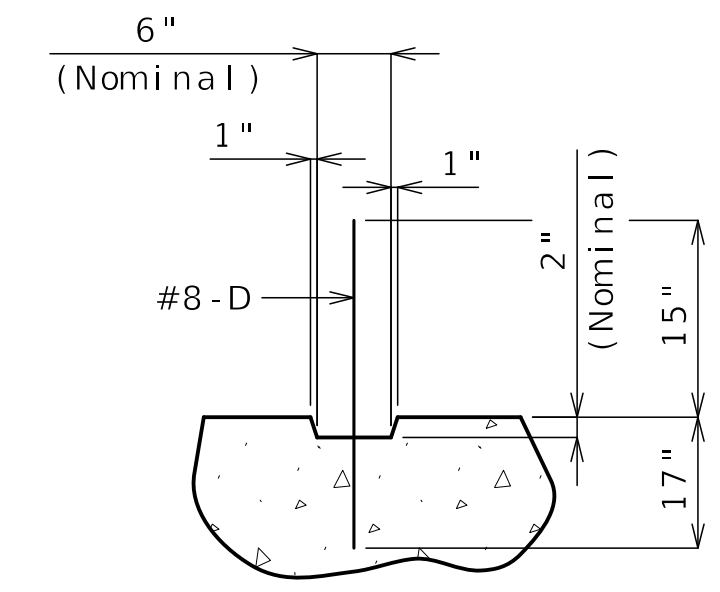
SECTION B-B



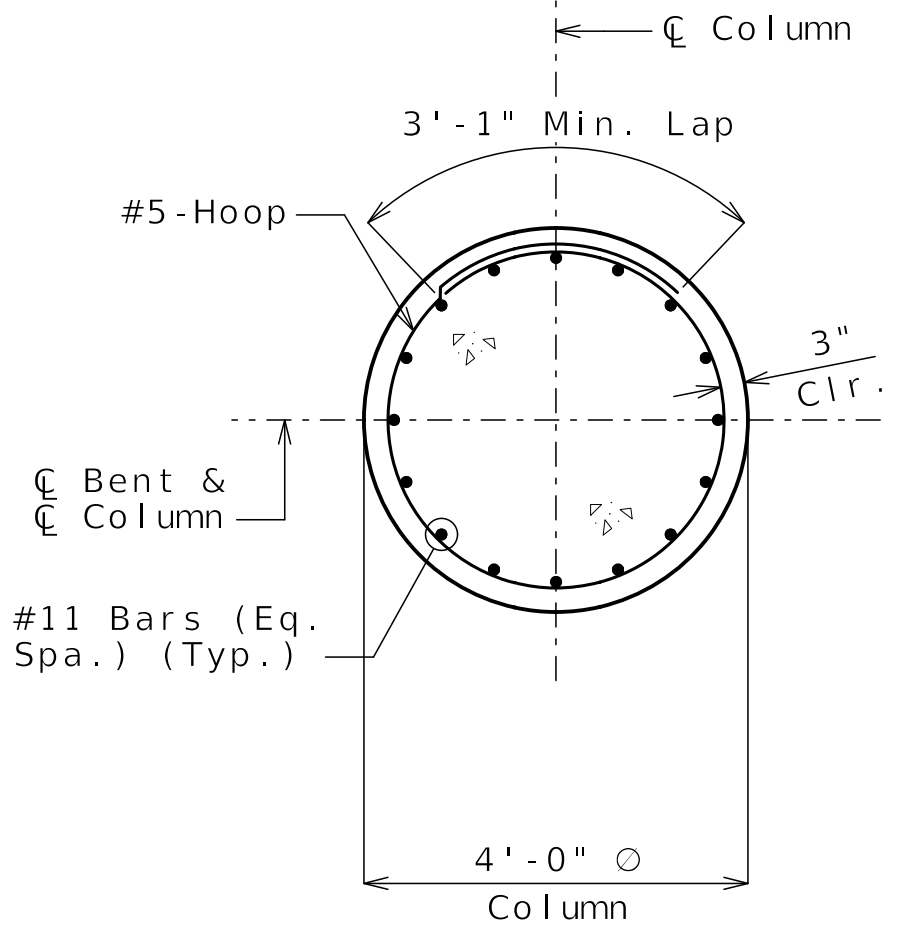
TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD (TAPERED)

4 Required per Bent

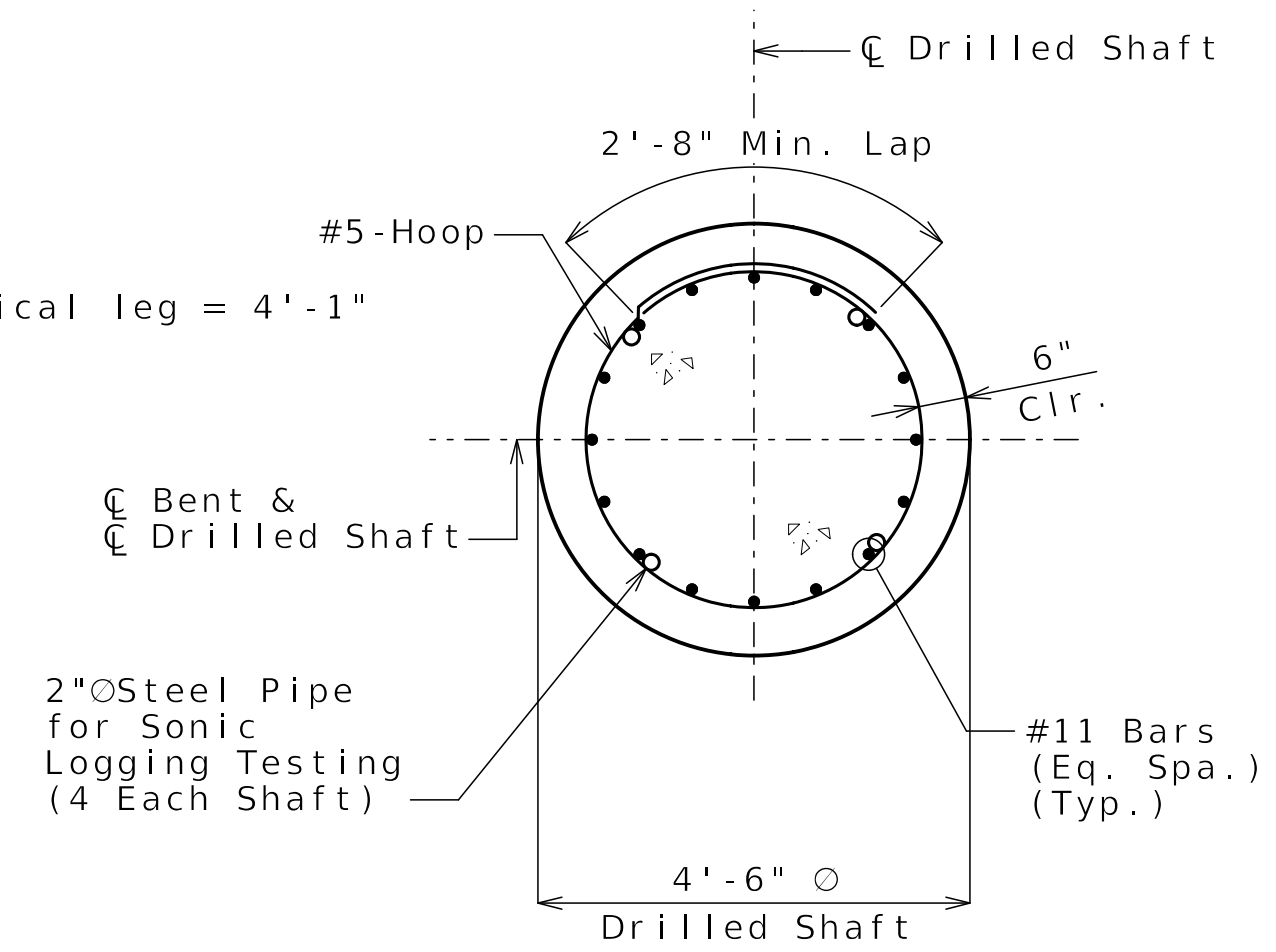
TABLE OF VARIABLES							
Bent	'A'	'B'	'C'	'D'	'E'	'G'	'H'
2	4' - 7 1/2"	13' - 1 1/2"	26' - 0"	927.78	927.66	910.0	884.0
3	4' - 7 1/2"	18' - 3 1/2"	25' - 6"	923.42	923.31	900.5	875.0
4	4' - 7 1/2"	15' - 1 1/2"	16' - 0"	919.72	919.59	900.0	884.0



SECTION THRU KEY



SECTION C-C

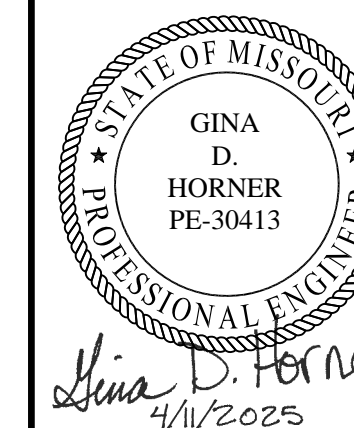


SECTION D-D

Notes:  
Prior to placing concrete for columns, position of vertical reinforcement shall be verified so as to provide clearance for capbeam reinforcement as applicable.  
For location of drilled shafts, see Sheet No. B03-04.  
Hoop splices shall be staggered around the drilled shaft at 90 degree intervals.

DETAILS OF INTERMEDIATE BENTS





DATE PREPARED  
04/11/2025

ROUTE	STATE
-------	-------

I - 70	MO
--------	----

DISTRICT	SHEET NO.
55	555

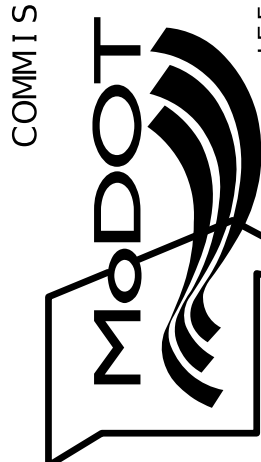
BR	B03 -
----	-------

COUNTY  
LACKSON

JACKSON

JOB NO.  
1411496D

7411486D	
CONTRACT ID.	
240807-C01	
PROJECT NO.	
BRIDGE NO.	
A9629	
DATE	DESCRIPTION
04/11/25	REV 0 - RFC SUBMITTAL

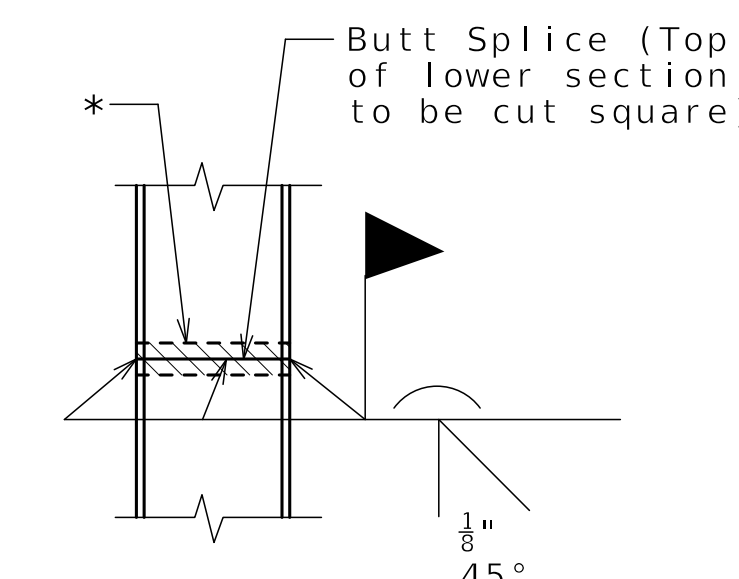
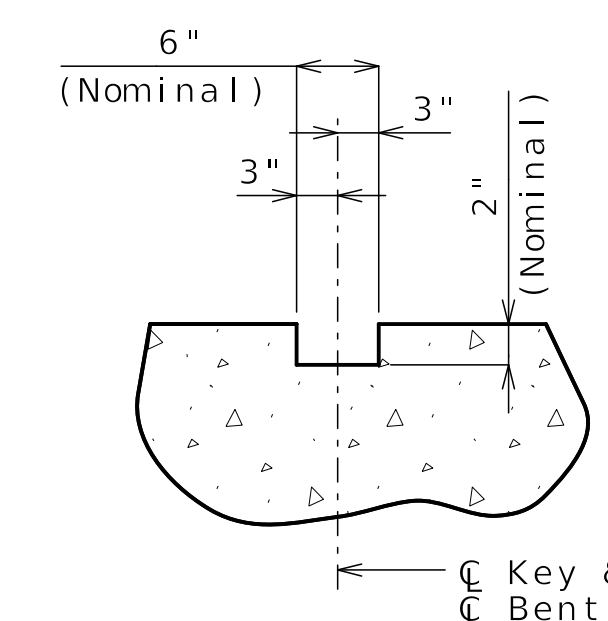
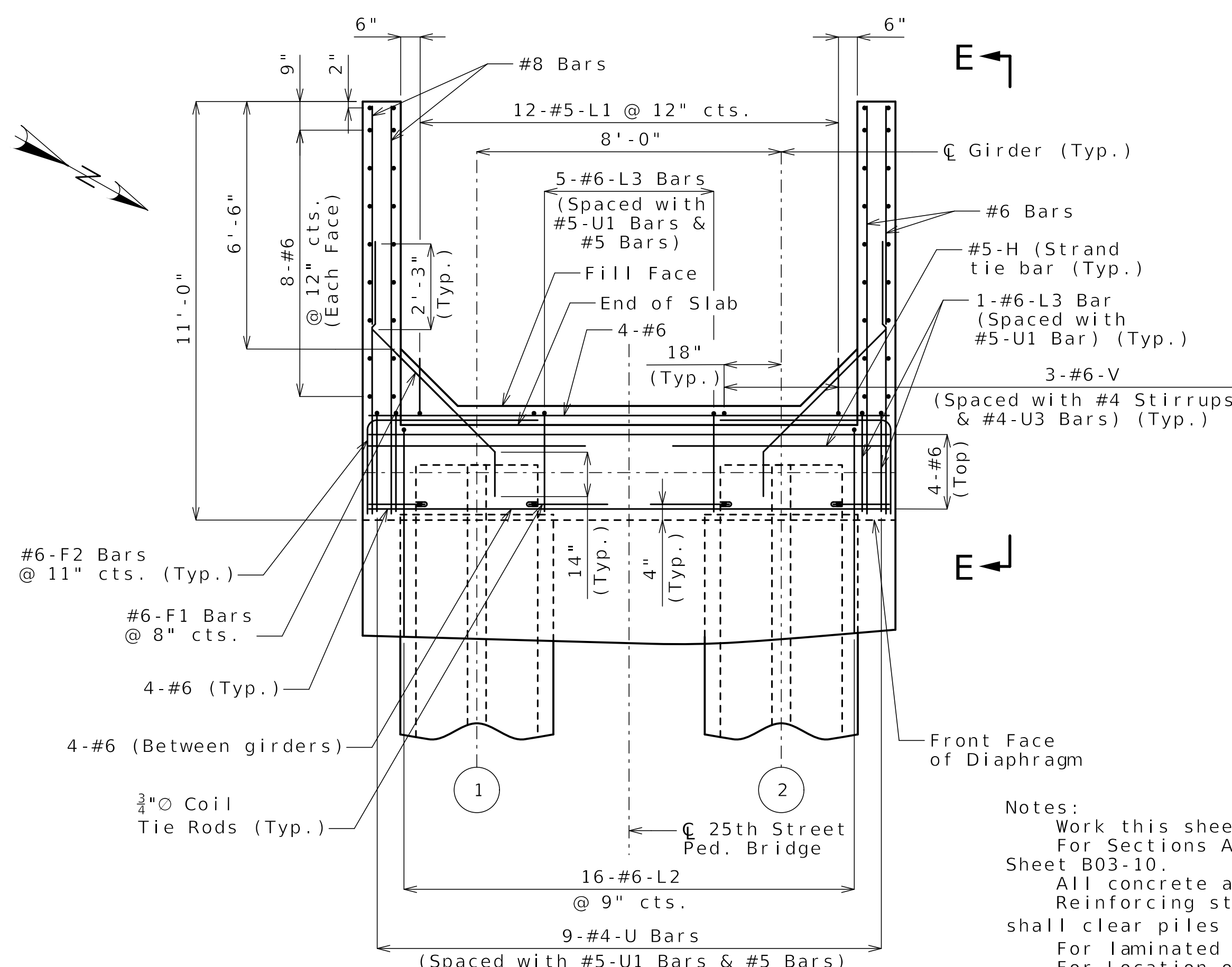
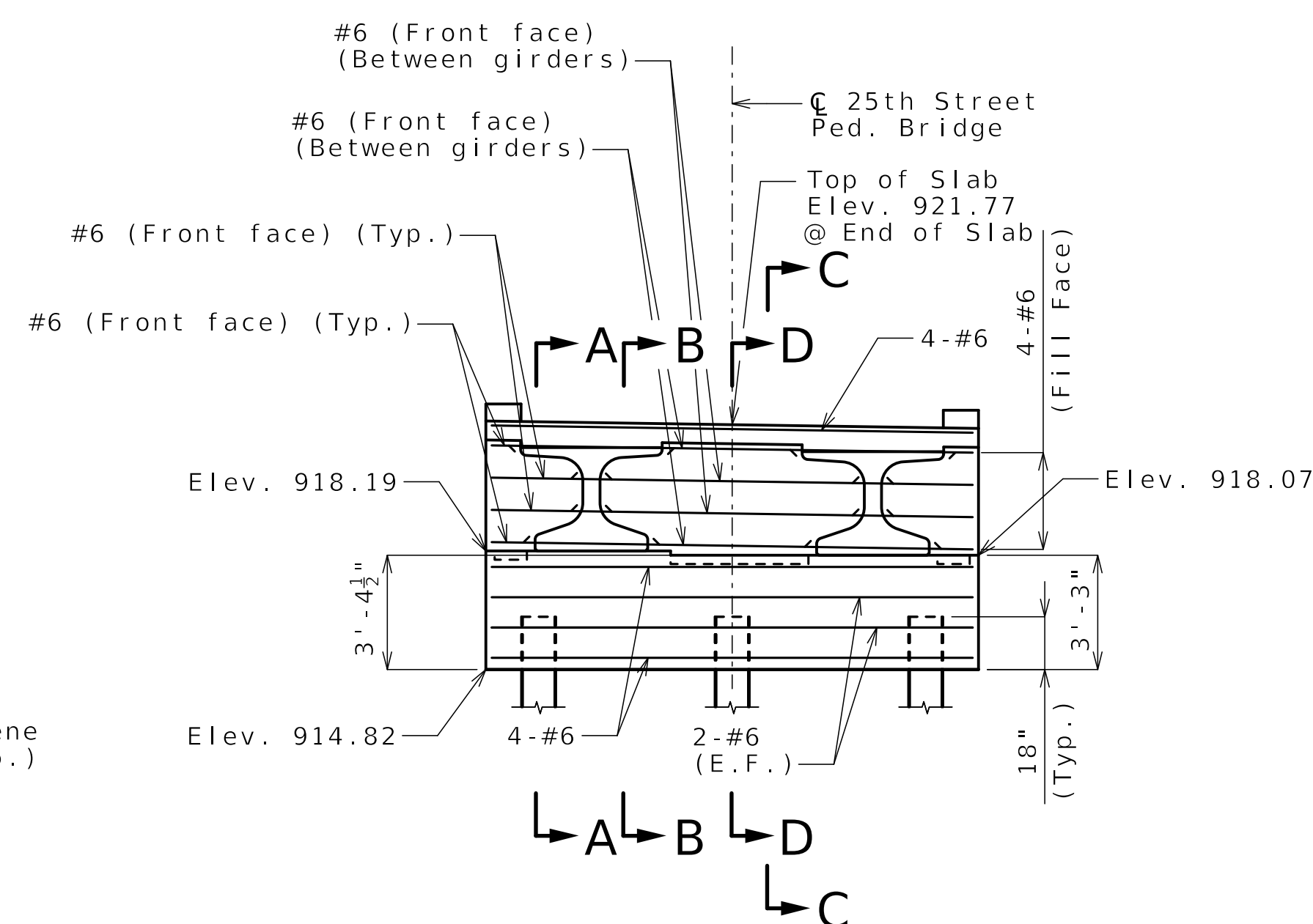
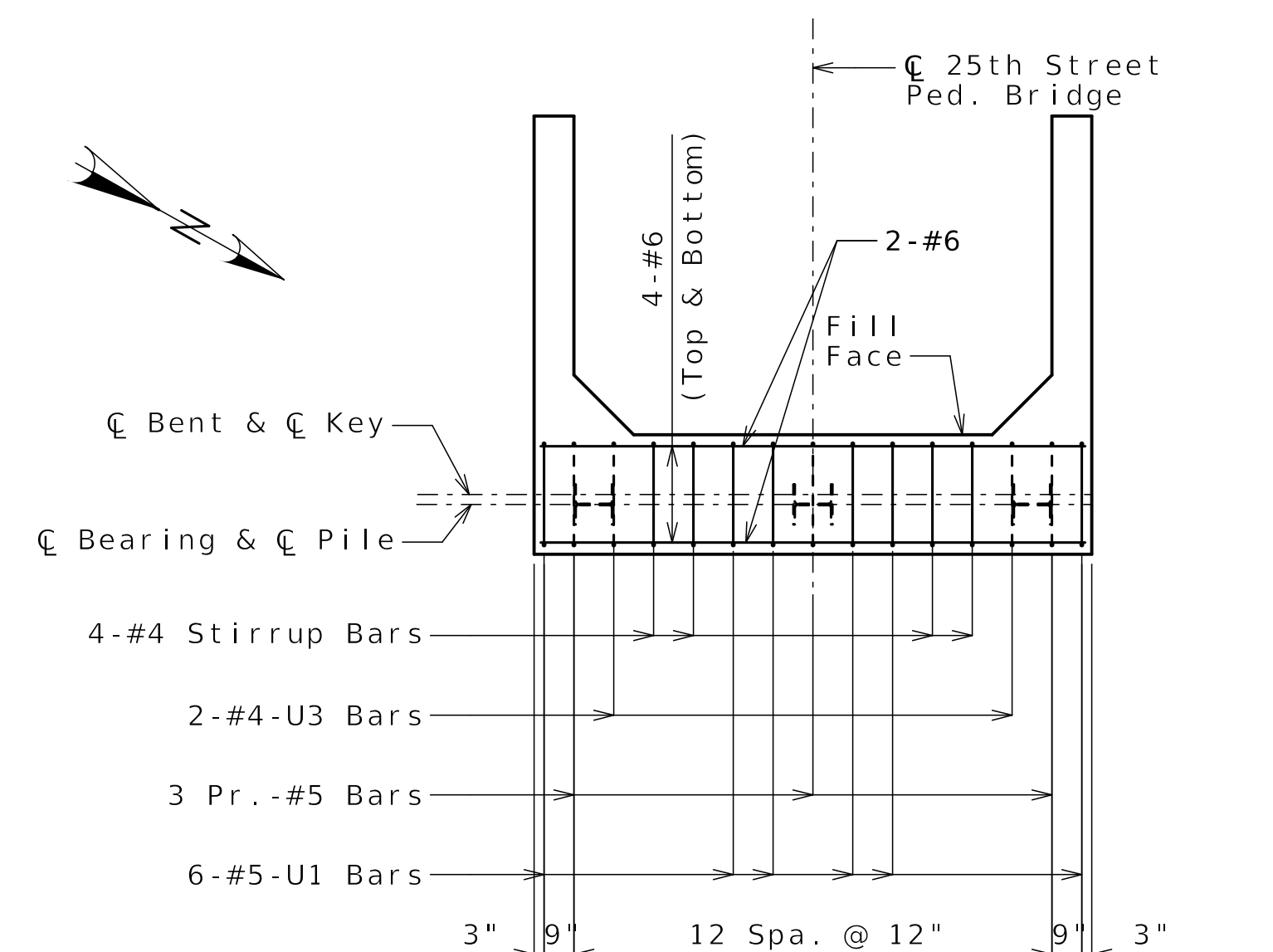
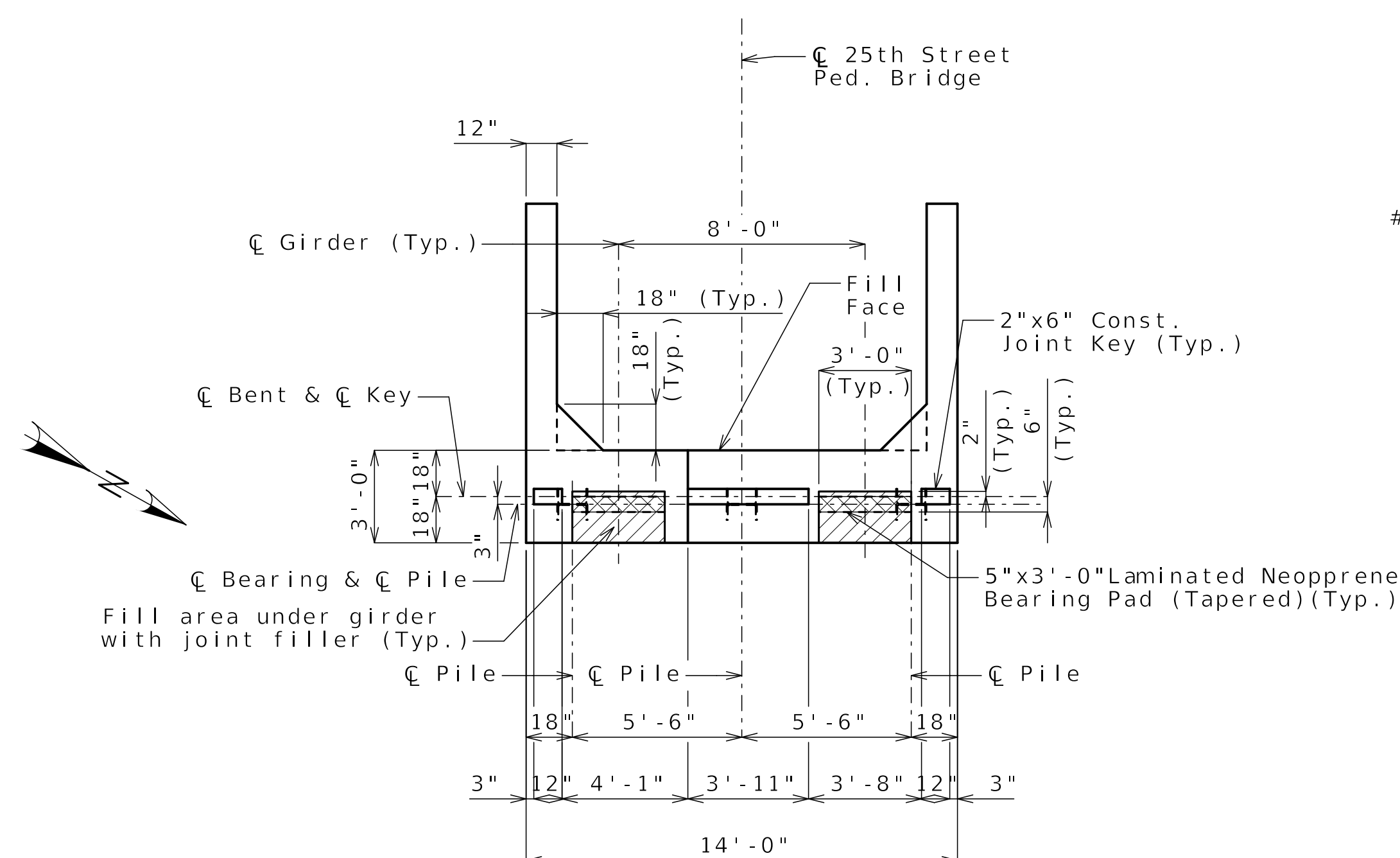
MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY MO 65102



**CLARKSON  
RADMACHER**

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY



\* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

**Released For Construction**  
Not to Scale

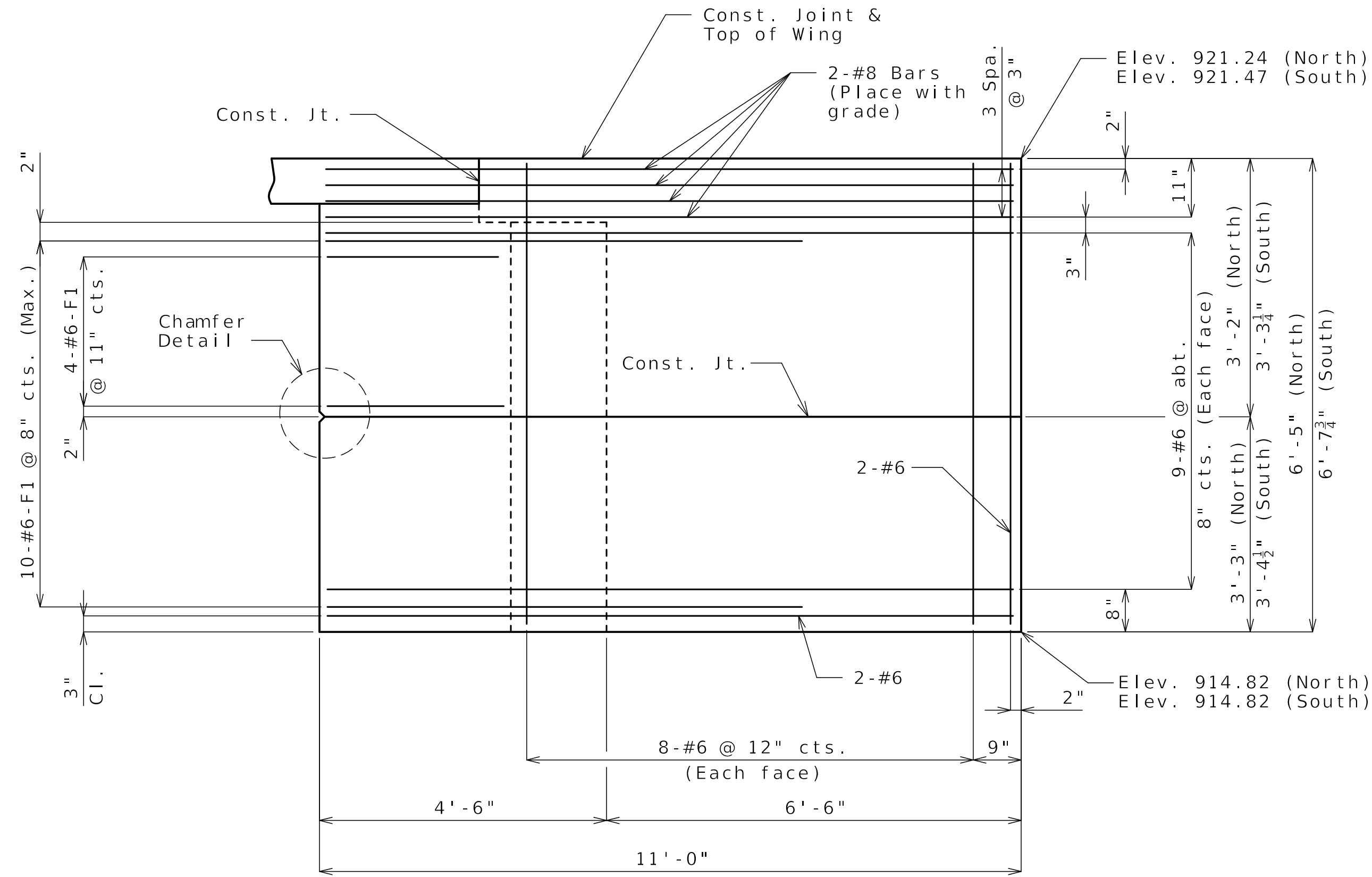
Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

Notes:

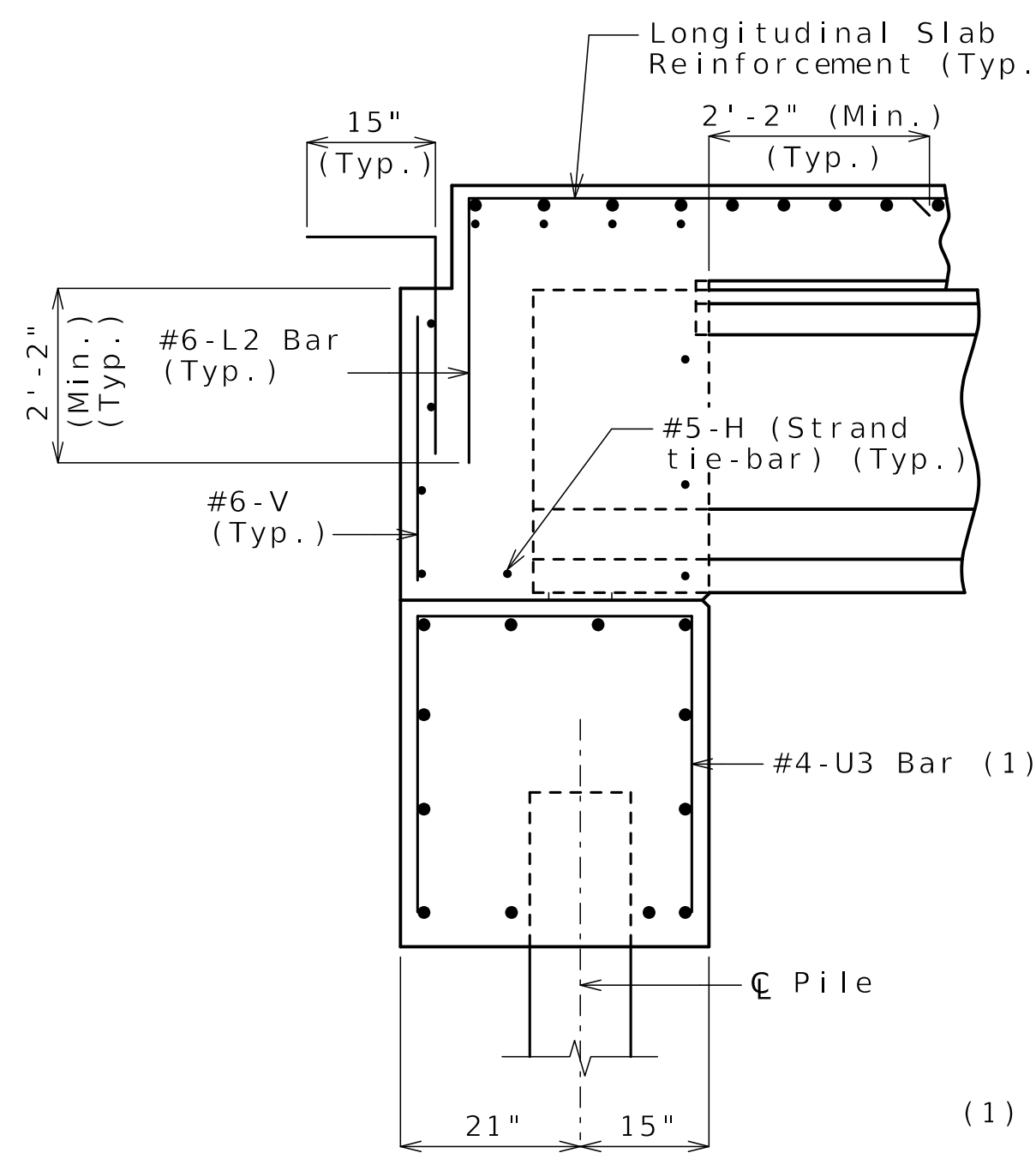
- Work this sheet with Sheet No. B03-10.
- For Sections A-A, B-B, C-C, D-D and Elevation E-E, see Sheet B03-10.
- All concrete above the construction joint shall be Class B-2.
- Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least  $1\frac{1}{2}$  inches.
- For laminated neoprene bearing detail, see Sheet No. B03-05.
- For Location of coil tie rods, see Sheet No. B03-12.
- Strands at end of the girders shall be field bent or, if necessary, cut in field to maintain  $1\frac{1}{2}$ -inch minimum clearance to fill face of end bent.
- The #6-F bars shall be bent in the field to clear girders.
- For details of bridge approach slab, see Sheet No. B03-04.

(X) Denotes girder number

### DETAILS OF END BENT NO. 5

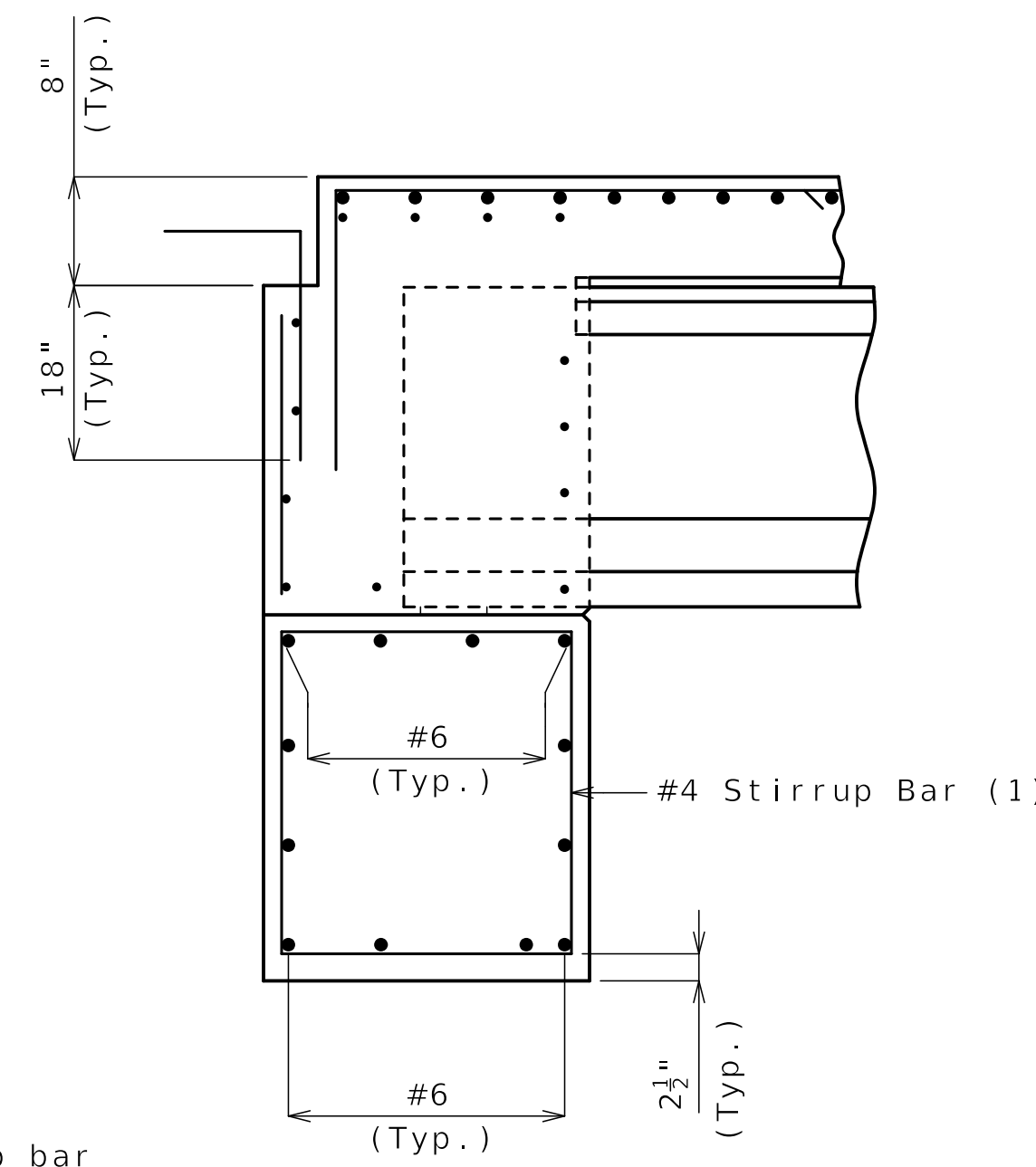


ELEVATION E-E  
(North wingwall shown, South wingwall similar except opposite hand)

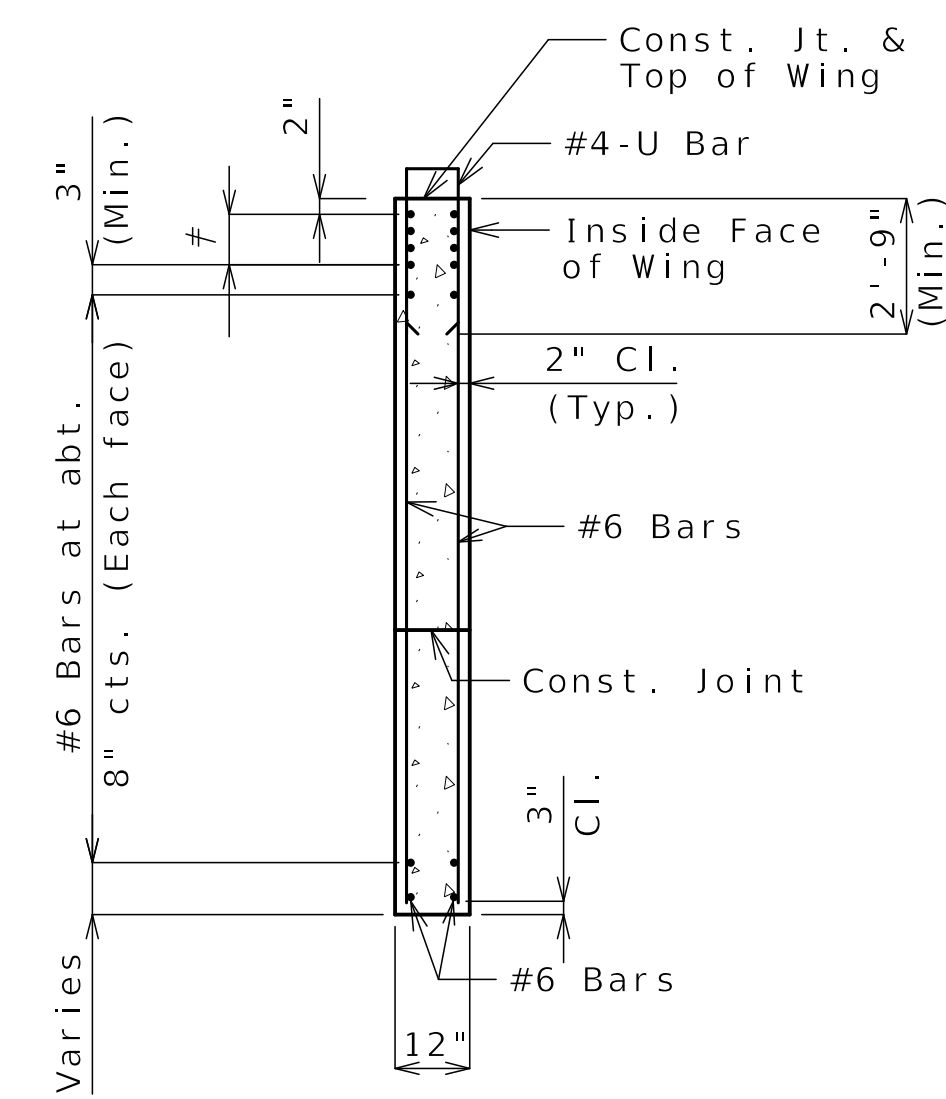


SECTION A-A

(1) U3 & #4 stirrup bar vertical leg = 2'-10"

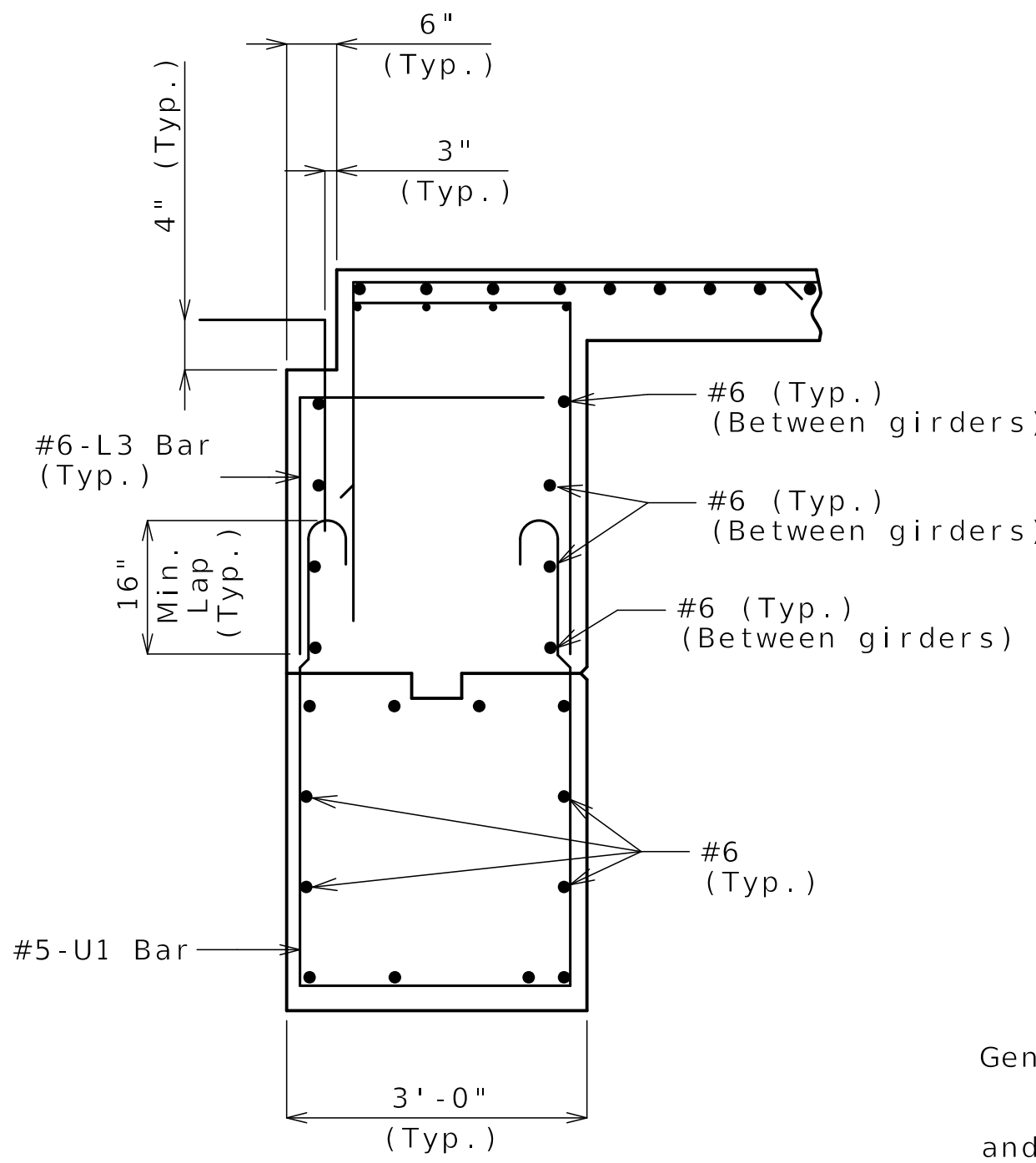


SECTION B-B

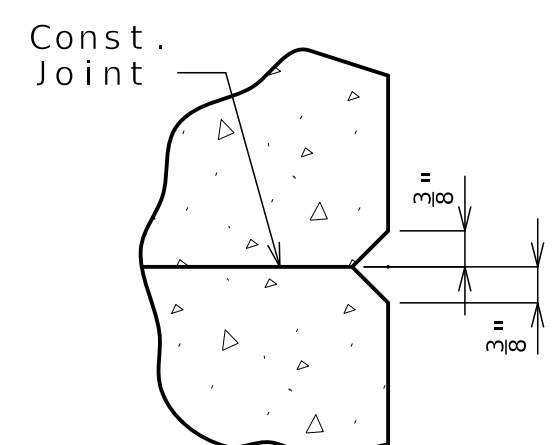


TYPICAL SECTION THRU WING

#8 Bars at 3" cts. (Each face) (Place with grade) See Elevation E-E for number of bars

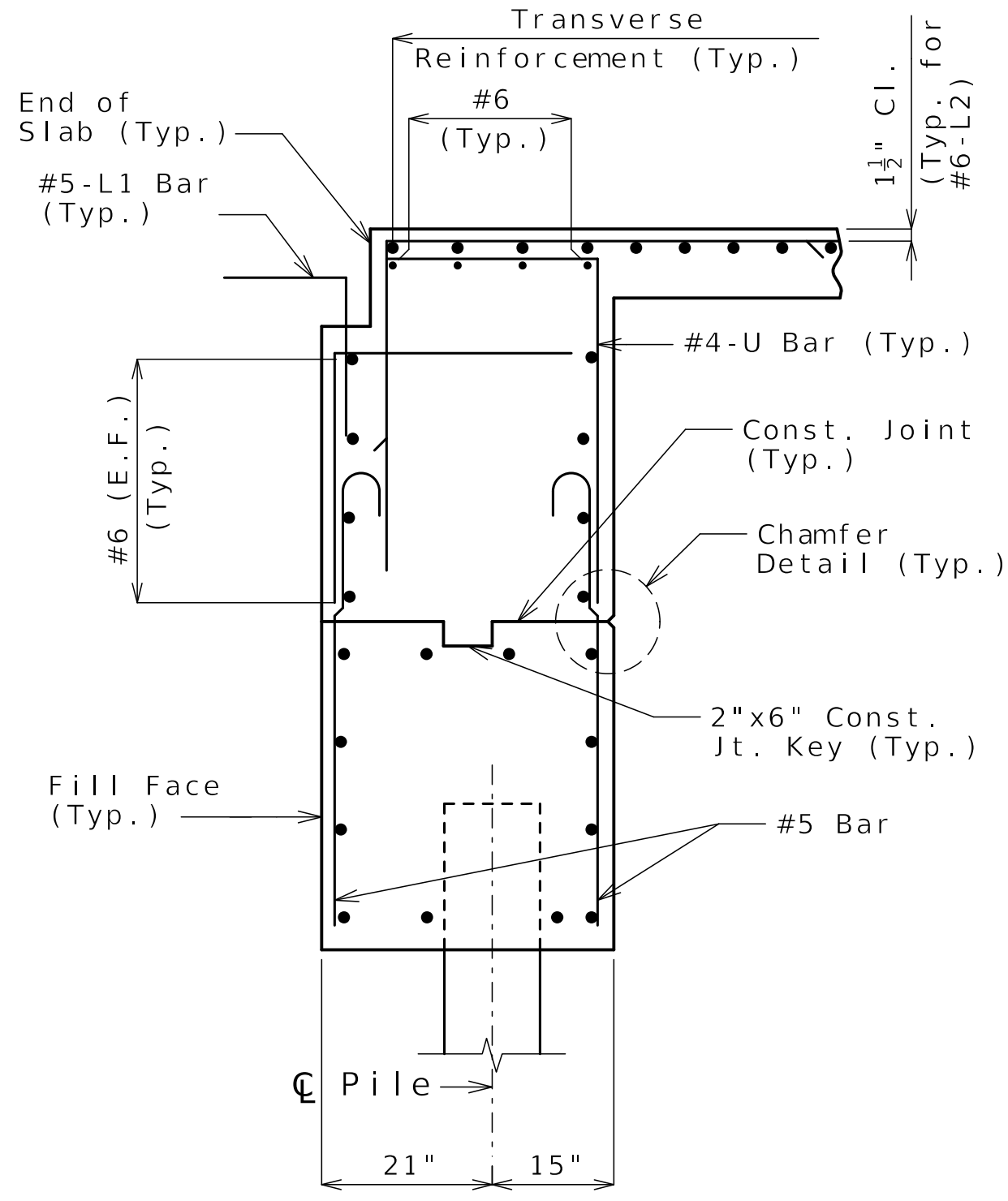


SECTION C-C



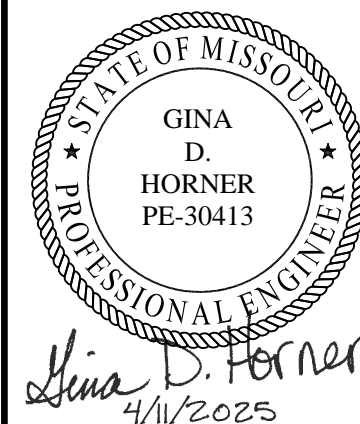
CHAMFER DETAIL

Released For Construction  
Not to Scale  
Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED



SECTION D-D

General Notes:  
Work this sheet with Sheet No. B03-09.  
For location of Sections A-A, B-B, C-C and D-D and Elevation E-E, see Sheet No. B03-09.  
For reinforcement of the pedestrian curb, see Sheet No. B03-20.



DATE PREPARED 04/11/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B03-10
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	
BRIDGE NO. A9629	

DATE	DESCRIPTION
04/11/25	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

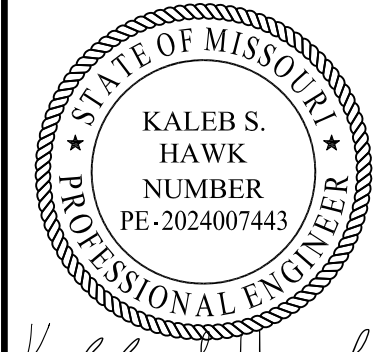
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

HNTB





DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03 - 11
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807 - C01	
PROJECT NO.	

BRIDGE NO. A9629	
DESCRIPTION REV 0 - RFC SUBMITTAL	DATE 04/11/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

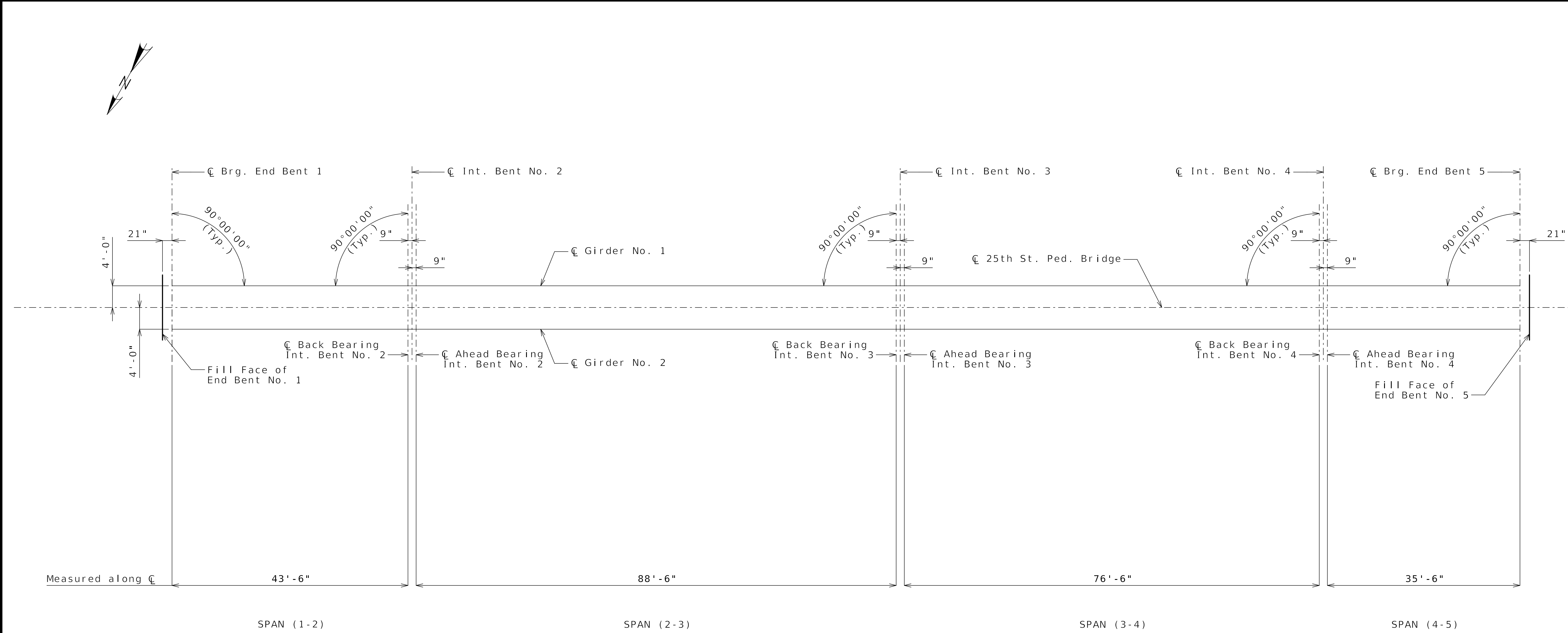


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270





FRAMING PLAN

Released For Construction  
Not to Scale  
Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

Notes:  
Longitudinal dimensions shown are horizontal.  
All bents are parallel.

FRAMING PLAN





[illegible]

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Minimum clearance to reinforcing shall be one inch.

The two D1 bars may be furnished as one bar at the fabricator's option.

G3 not required for exterior girders of intermediate spans.

Concrete for prestressed girders shall be Class A-1 with  $f'_c = 10000$  psi and  $f'_{ci} = 7500$  psi.

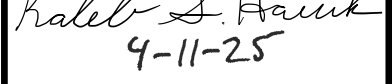
Pretensioned members shall be in accordance with Sec 1029.

For Girder Camber Diagram, see Sheet  
No. B03-15.

For location of coil ties at concrete diaphragms and integral bents, see Sheet No. B03-14.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED



ROUTE I - 70	STATE MO
DISTRICT BR	SHEET NO. B03 - 13

BRIDGE NO.
A9629

[illegible]

**MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION**

**MoDOT**

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

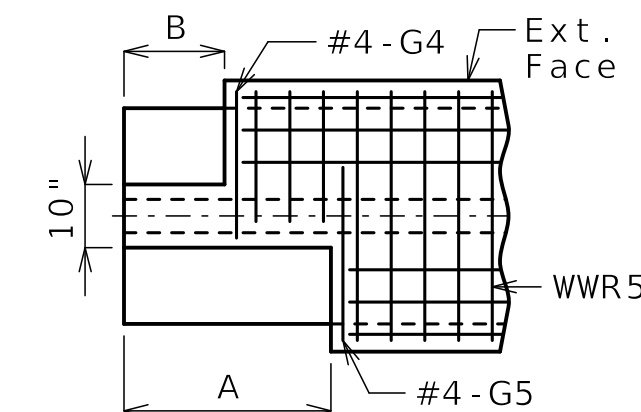
<b>ARKSON</b> <b>ADMACHER</b> JOINT VENTURE	715 KIRK DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270
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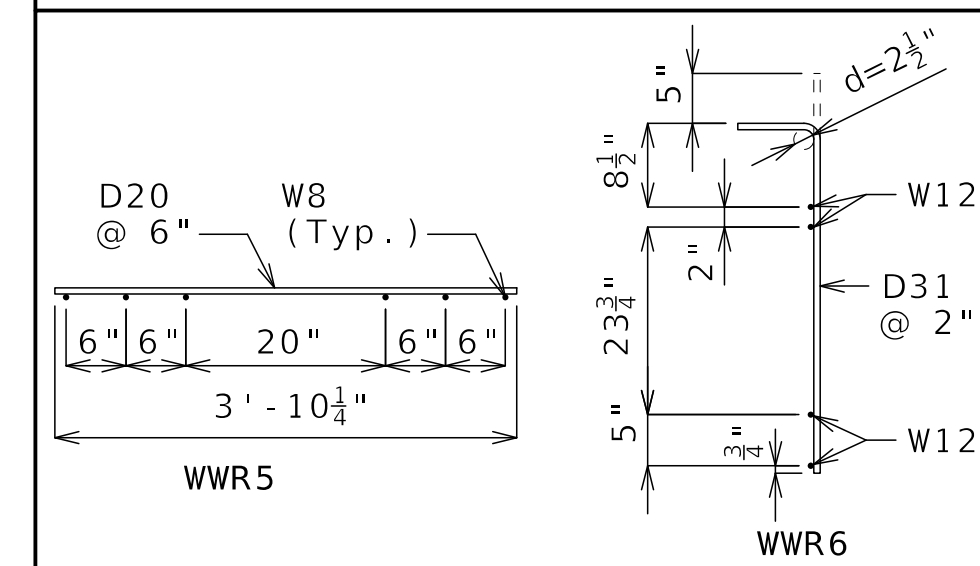
END OF GIRDER

INTERMEDIATE BENT

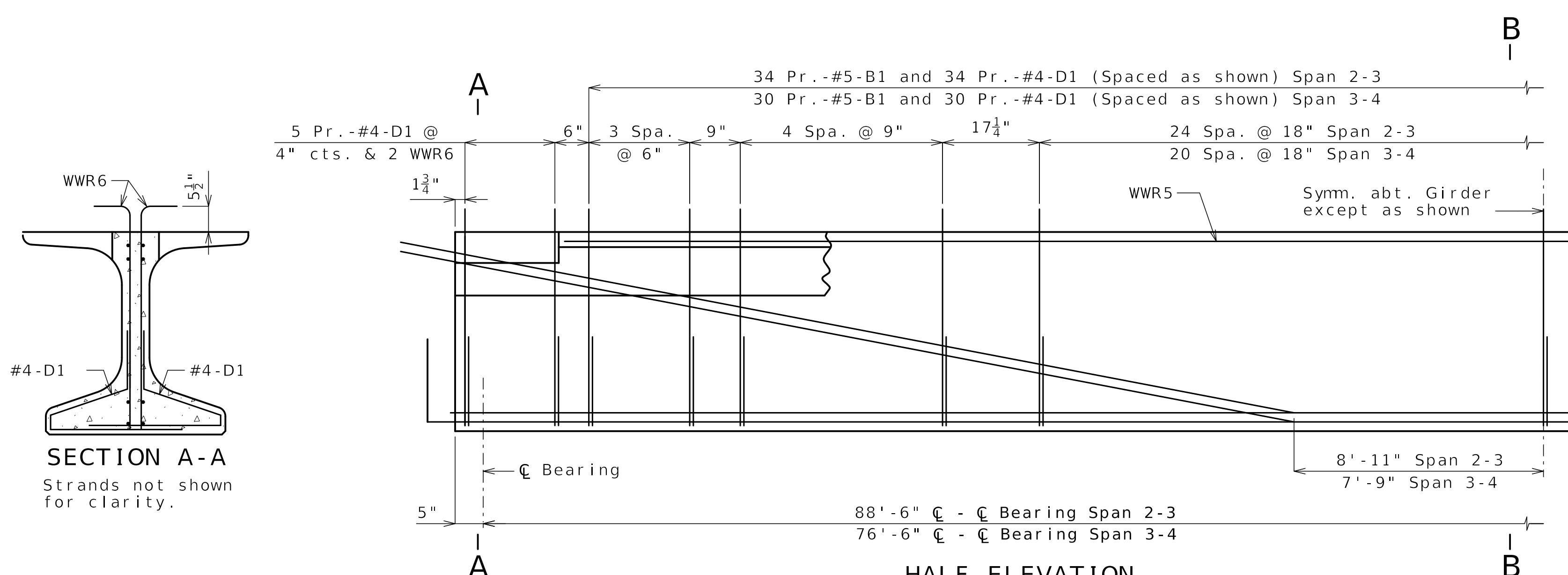
+ Indicates prestressing strand.      ○ Indicates cut & shop bend with 3'-0" projection.



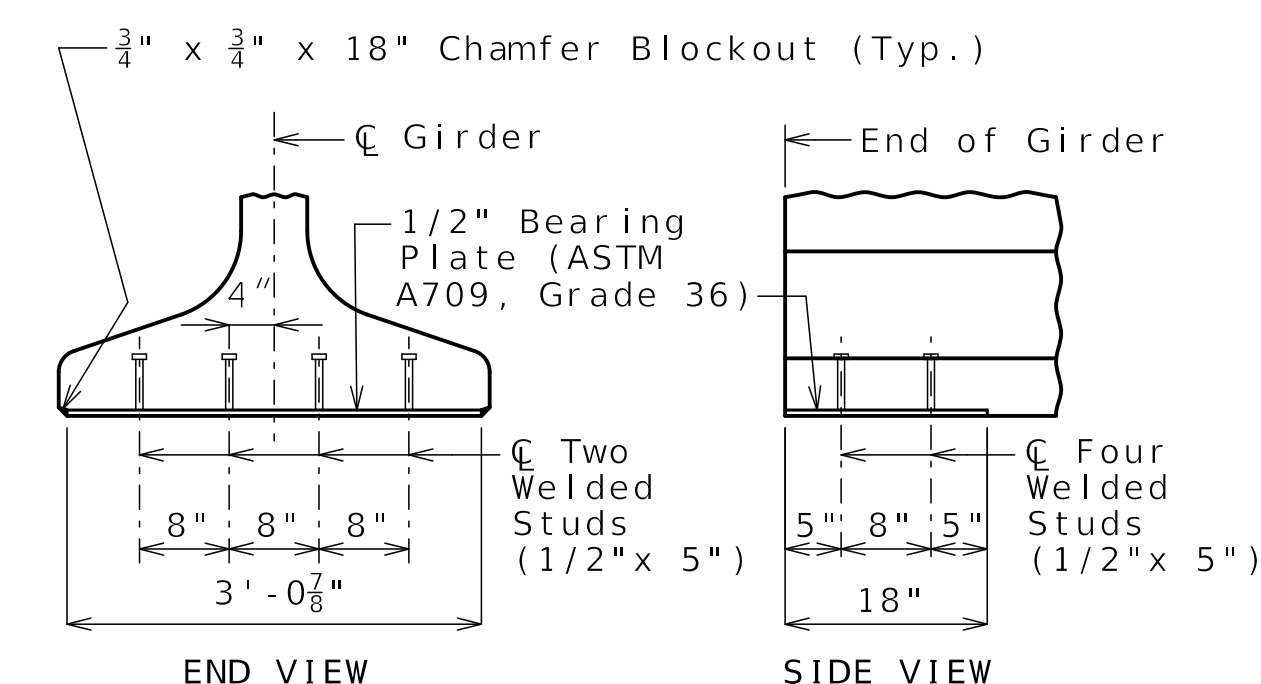
LEFT EXTERIOR GIRDER  
AT INTERMEDIATE BENT  
Rotate 180° for right ext.



Span No.	Girder No.	Bent No.	A	B	C	D
2-3	1 and 2	2	7½"	5½"	134	154
2-3	1 and 2	3	9"	11"		
3-4	1 and 2	3	7½"	5½"	118	138
3-4	1 and 2	4	9"	11"		

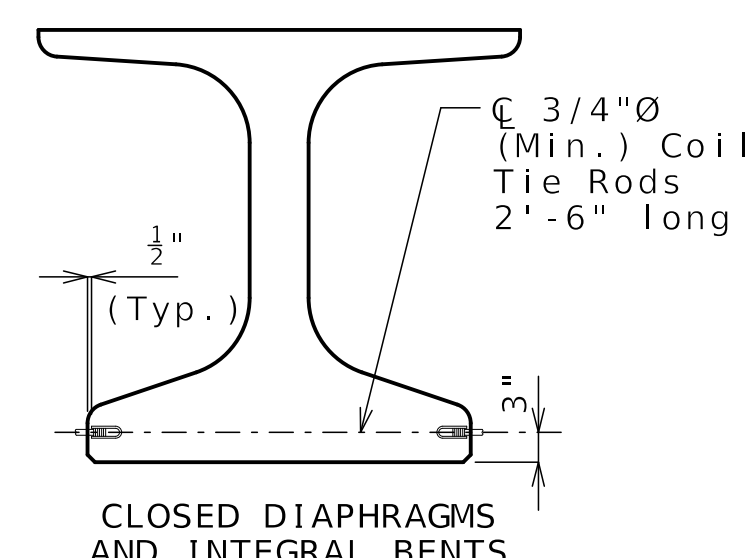


Reinforcement support strands not shown for clarity.



COIL TIES

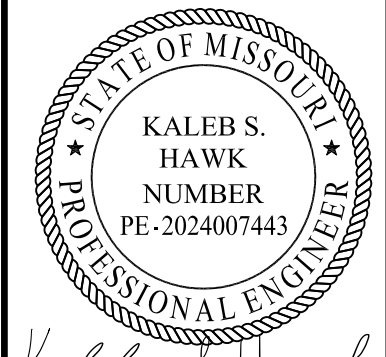
Exclude coil tie at exterior face of exterior girders except at integral end bents.



NU-GIRDERS - SPANS (2-3) & (3-4)







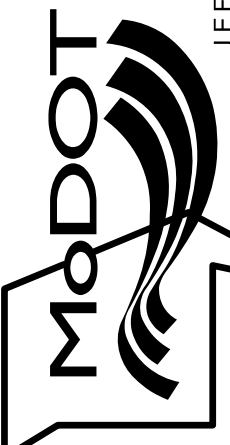
Kaleb S. Hawk  
9-11-25

DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03 - 15
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9629

DATE	DESCRIPTION	REV				
		0	1	2	3	4
04/11/25	REV 0 - RFC SUBMITTAL					

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

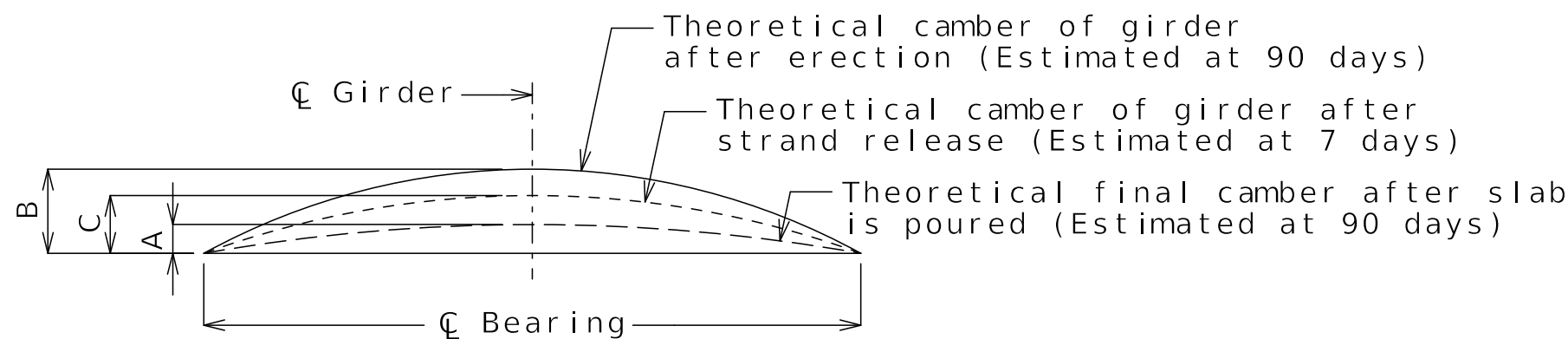


105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270



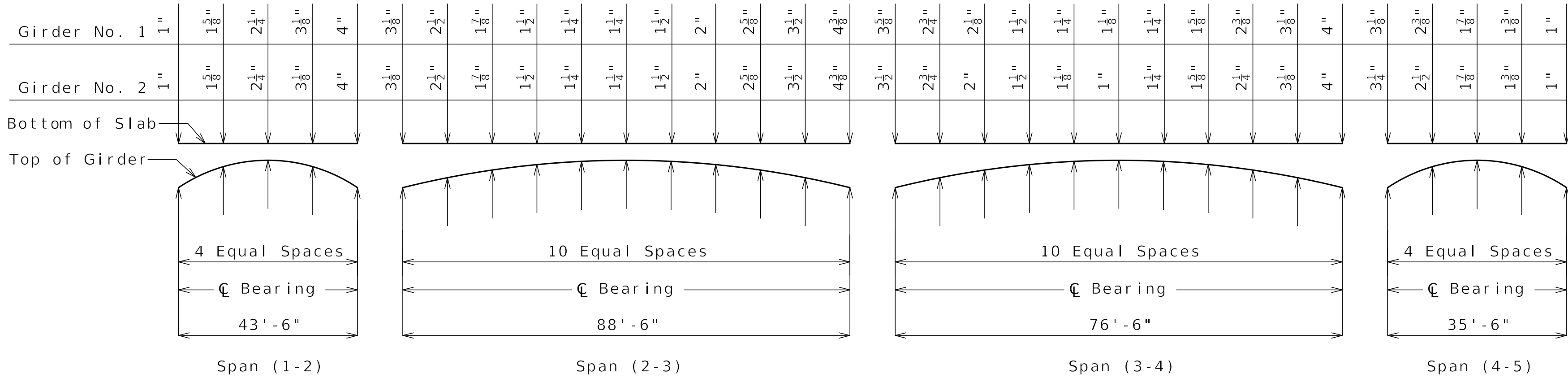


Girder	Span (1-2)			Span (2-3)			Span (3-4)			Span (4-5)		
	A	B	C	A	B	C	A	B	C	A	B	C
1	1/4"	3/8"	1/4"	2 1/2"	4 1/8"	2 7/8"	2 3/4"	3 5/8"	2 1/2"	1/4"	1/4"	1/8"
2	1/4"	3/8"	1/4"	2 1/2"	4 1/8"	2 7/8"	2 3/4"	3 5/8"	2 1/2"	1/4"	1/4"	1/8"

GIRDER CAMBER DIAGRAM

Conversion Factors for Girder Camber (Estimated at 90 days)

Span 2-3 & 3-4  
0.1 pt. = 0.314 x 0.5 pt.  
0.2 pt. = 0.593 x 0.5 pt.  
0.3 pt. = 0.813 x 0.5 pt.  
0.4 pt. = 0.952 x 0.5 pt.  
Span 1-2 & 4-5  
0.25 pt. = 0.7125 x 0.5 pt.



THEORETICAL SLAB HAUNCHING DIAGRAM

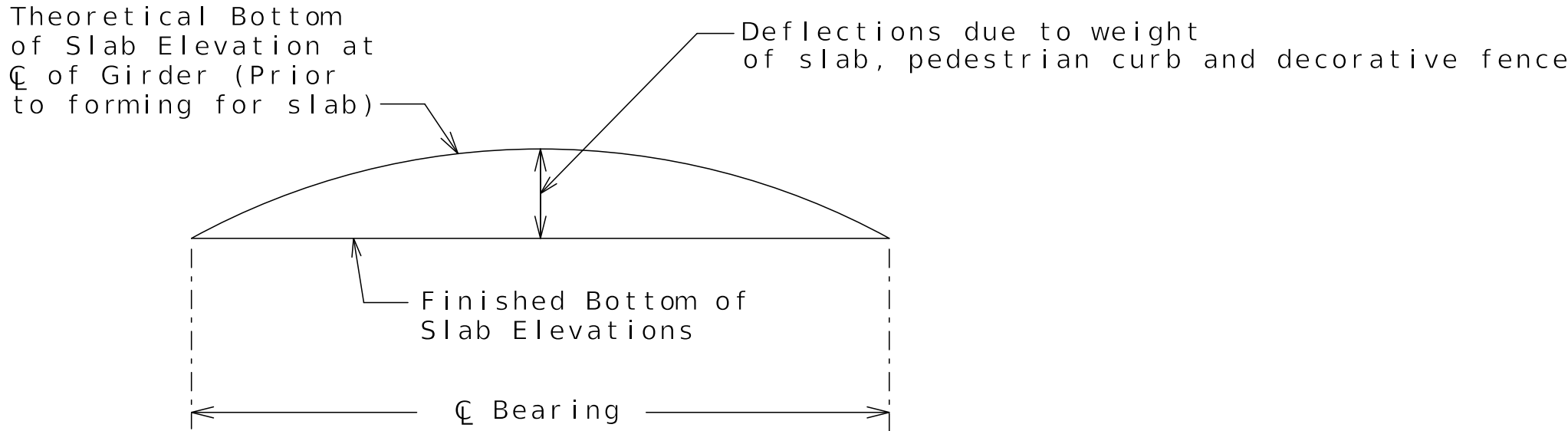
Released For Construction  
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Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

Notes:  
If girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, adjustment of the slab haunches, or a raise in grade uniformly throughout the structure shall be necessary.

CAMBER DIAGRAM & THEORETICAL SLAB HAUNCHING DIAGRAM

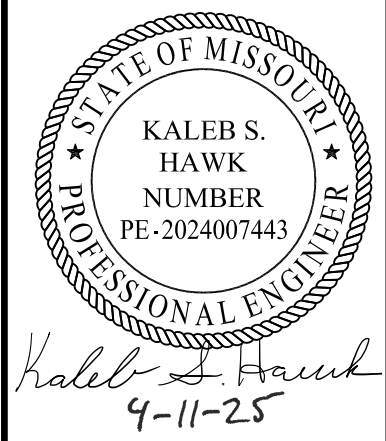
Theoretical Bottom of Slab Elevations at Centerline of Girder (Prior to forming for slab)**											
Girder Number	Span (1-2) (43'-6" C Brg. - C Brg.)										
	C Brg.	.25	.50	.75	C Brg.						
	1	933.27	932.76	932.24	931.71						
2	933.15	932.64	932.12	931.59	931.06						
Girder Number	Span (2-3) (88'-6" C Brg. - C Brg.)										
	C Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	C Brg.
	1	931.11	930.73	930.35	929.95	929.55	929.13	928.70	928.25	927.80	927.33
2	930.99	930.61	930.23	929.83	929.43	929.01	928.58	928.13	927.68	927.21	926.74
Girder Number	Span (3-4) (76'-6" C Brg. - C Brg.)										
	C Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	C Brg.
	1	926.79	926.45	926.10	925.75	925.40	925.03	924.66	924.29	923.90	923.51
2	926.67	926.33	925.98	925.63	925.28	924.91	924.54	924.17	923.78	923.39	923.00
Girder Number	Span (4-5) (35'-6" C Brg. - C Brg.)										
	C Brg.	.25	.50	.75	C Brg.						
	1	923.05	922.62	922.20	921.77						
2	922.93	922.50	922.08	921.65	921.22						

\*\*Elevations are based on a constant slab thickness of 6.5" and include allowance for theoretical dead load deflections due to weight of slab (including pedestrian curb and decorative pedestrian fence).



TYPICAL SLAB ELEVATIONS DIAGRAM

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Package: BRD-03-25th\_ST\_PED



DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03-16
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	
BRIDGE NO. A9629	

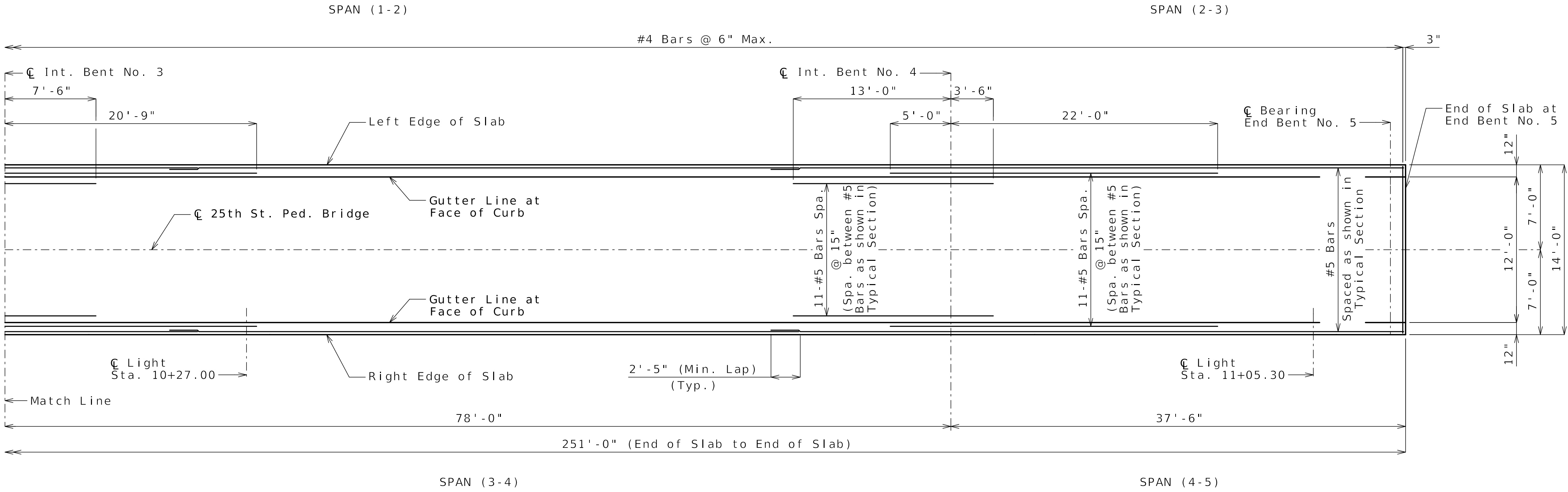
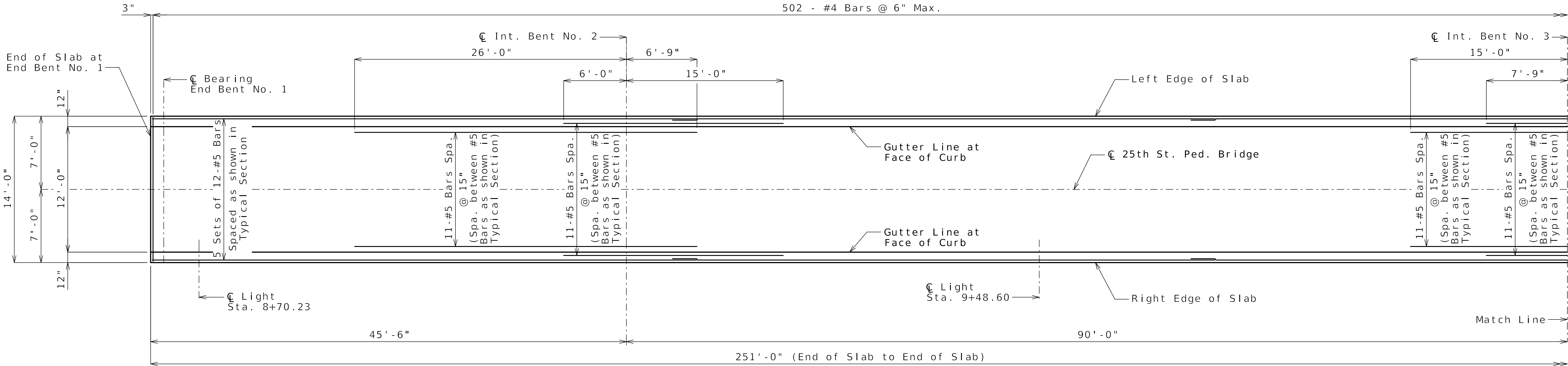
DATE	DESCRIPTION	REV	0	-	RFC	SUBMITTAL
04/11/25						

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270



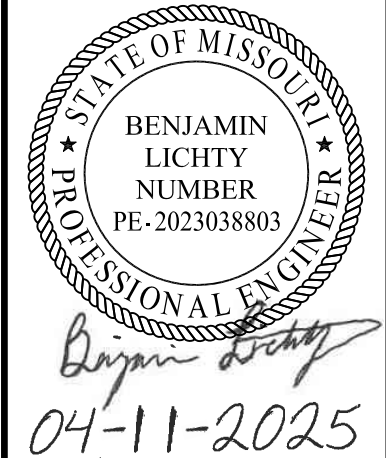


TOP REINFORCEMENT

Released For Construction  
Not to Scale  
Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

Notes:  
Work this sheet with Sheet No. B03-18.  
For Typical Section and Slab Pouring Sequence, see Sheet No. B03-19.  
For Pedestrian Curb Details, see Sheet No. B03-20.  
For Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. B03-15.  
For Theoretical Bottom of Slab Elevations, see Sheet No. B03-16.  
Longitudinal slab dimensions are measured horizontally.  
For Light Blister Reinforcing and Details, see Sheet No. B03-21.

SLAB PLAN SHOWING TOP REINFORCEMENT



DATE PREPARED 04/11/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B03-17
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO. A9629
---------------------

DESCRIPTION	DATE
REV 0 - RFC SUBMITTAL	04/11/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

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*Benjamin Lichty*  
04-11-2025

DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03-18
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9629

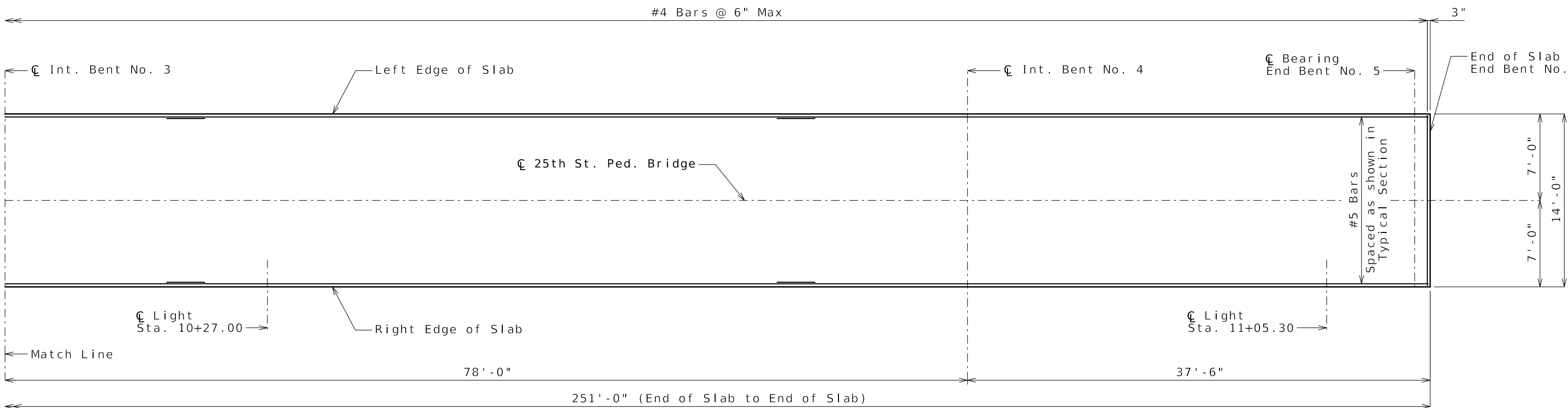
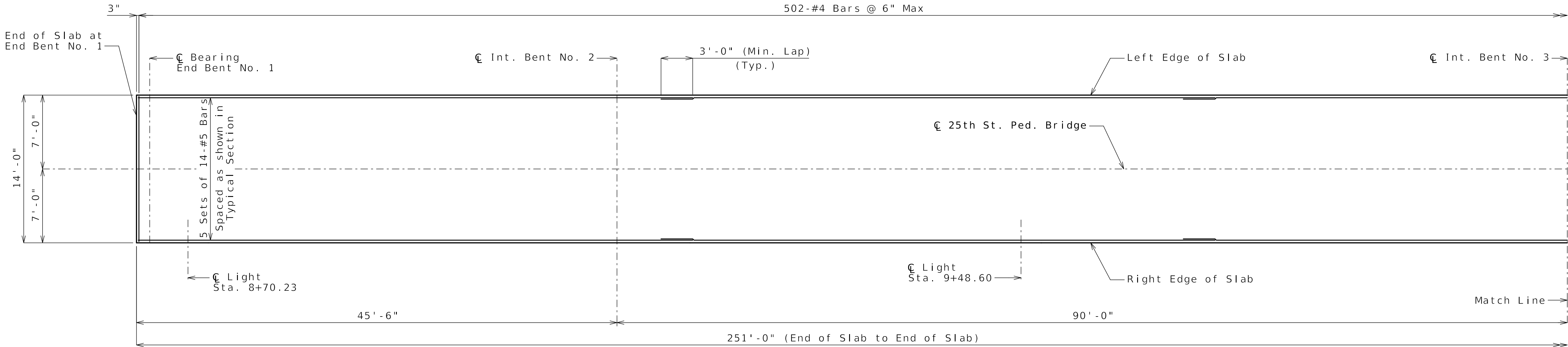
DESCRIPTION	DATE
REV 0 - RFC SUBMITTAL	04/11/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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**CLARKSON RADMACHER**  
JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270



BOTTOM REINFORCEMENT

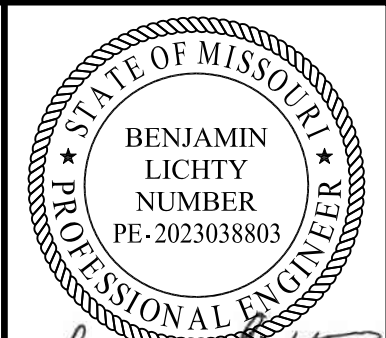
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Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

Notes:  
Work this sheet with Sheet No. B03-17.

SLAB PLAN SHOWING BOTTOM REINFORCEMENT





04-11-2025

DATE PREPARED  
04/11/2025

ROUTE  
1 - 70

STATE  
MO

DISTRICT  
BR

SHEET NO.  
B03-19

COUNTY  
JACKSON

JOB NO.  
J411486D

CONTRACT ID.  
240807-C01

PROJECT NO.

BRIDGE NO.  
A9629

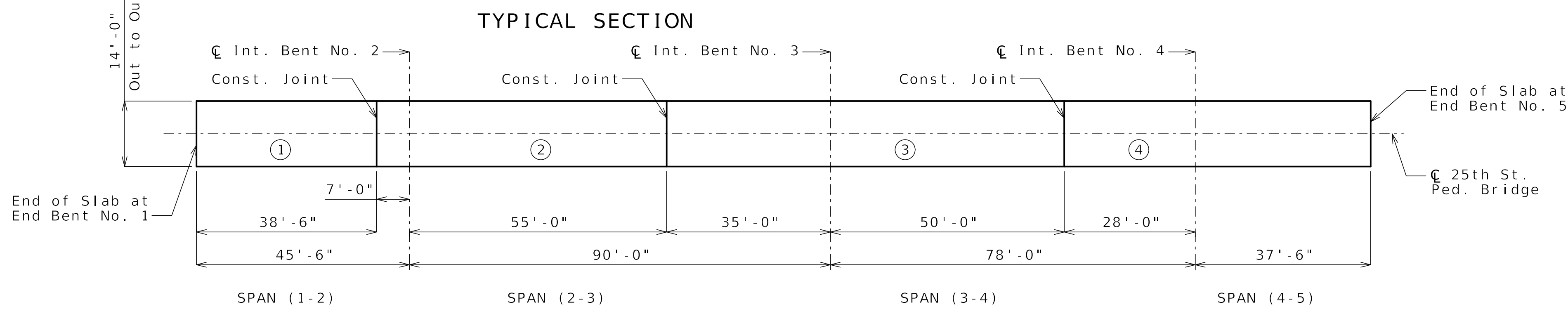
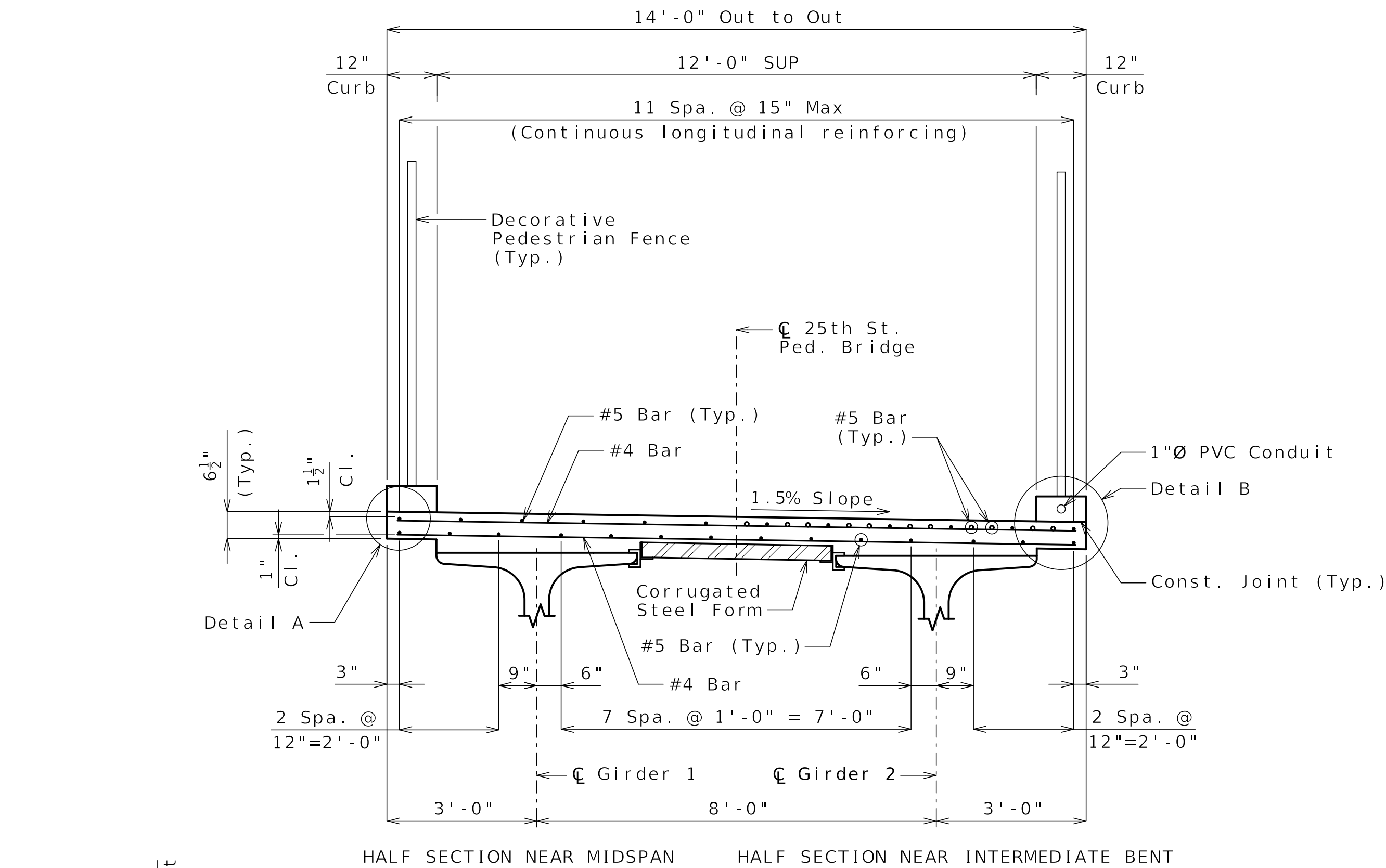
DATE	DESCRIPTION
04/11/25	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

CLARKSON RADMACHER JOINT VENTURE

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105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



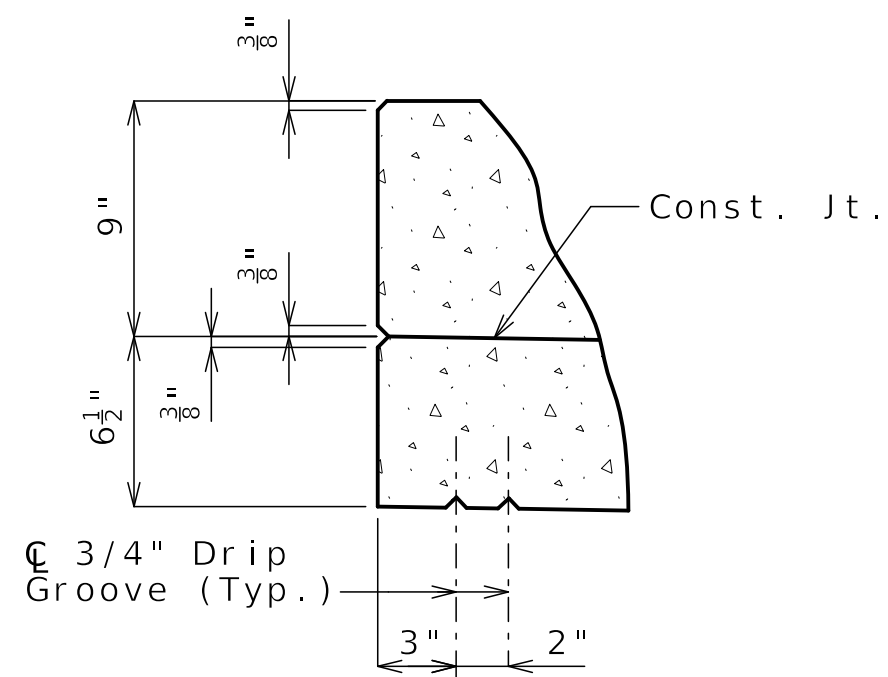
	Sequence of Pours				Min. Rate of Pour Cu. Yds./Hr.
	Direction				With Retarder
Basic Sequence	4	3	2	1	25
	End to 3	4 to 2	3 to 1	2 to End	
Alternate pours to the basic sequence are subject to the approval of the engineer in accordance with Sec 703.					
Alternate A Pours	4+3	2	1		25
	End to 2	3 to 1	2 to End		
Alternate B Pours	4 + 3		2 + 1		25
	End to 2		3 to End		
Alternate C Pours	4 + 3 + 2 + 1				25
	End to End				

The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours, and shall pour and satisfactorily finish the slab pours at the rate given.

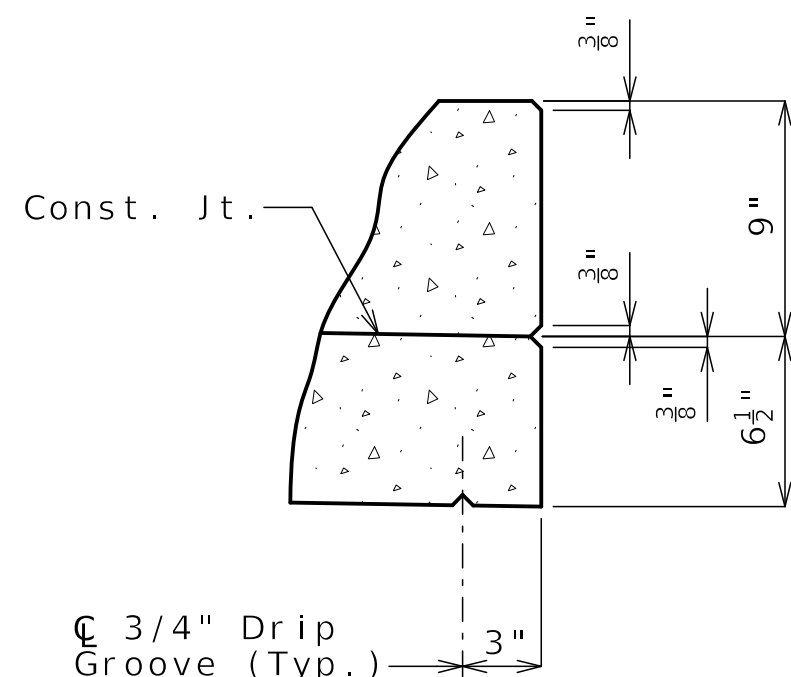
The concrete diaphragm at the intermediate bent and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

SLAB POURING SEQUENCE

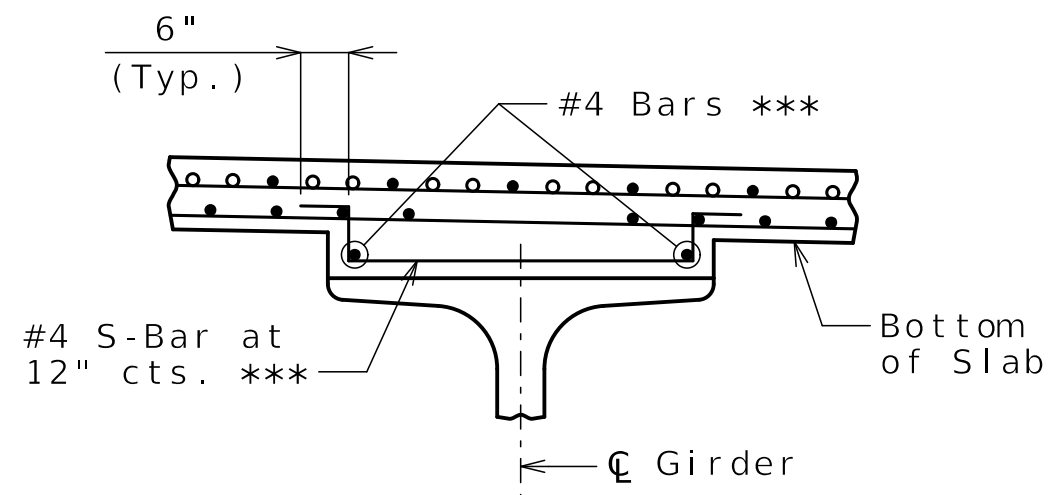
Note: This drawing is not to scale. Follow dimensions.



DETAIL A  
(High side of slab)

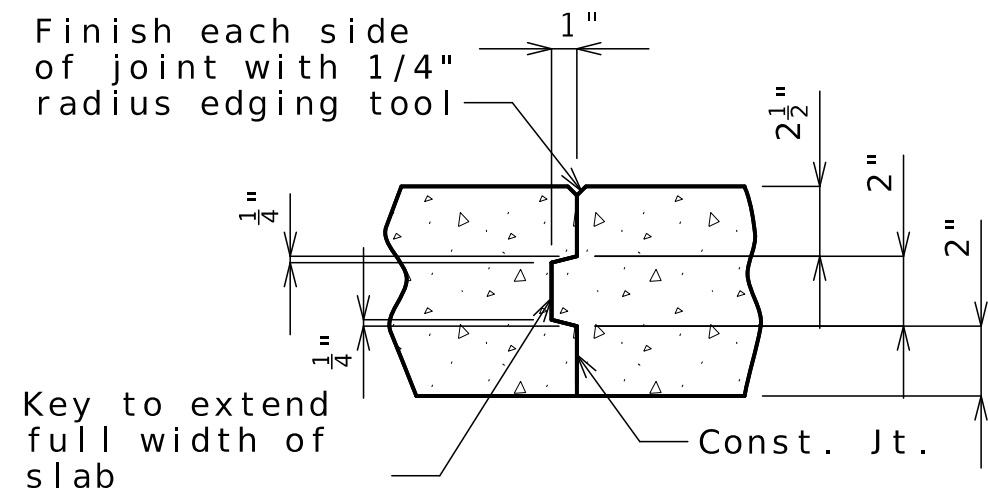


DETAIL B  
(Low side of slab)



HAUNCH REINFORCING DETAIL  
(Prestressed Girders)

\*\*\* Contractor shall provide #4 Bars and #4 S-Bars as necessary where the haunch exceeds 4 inches measured at centerline of girder. See Theoretical Slab Haunching Diagram on Sheet No. B03-15 for haunch thickness.

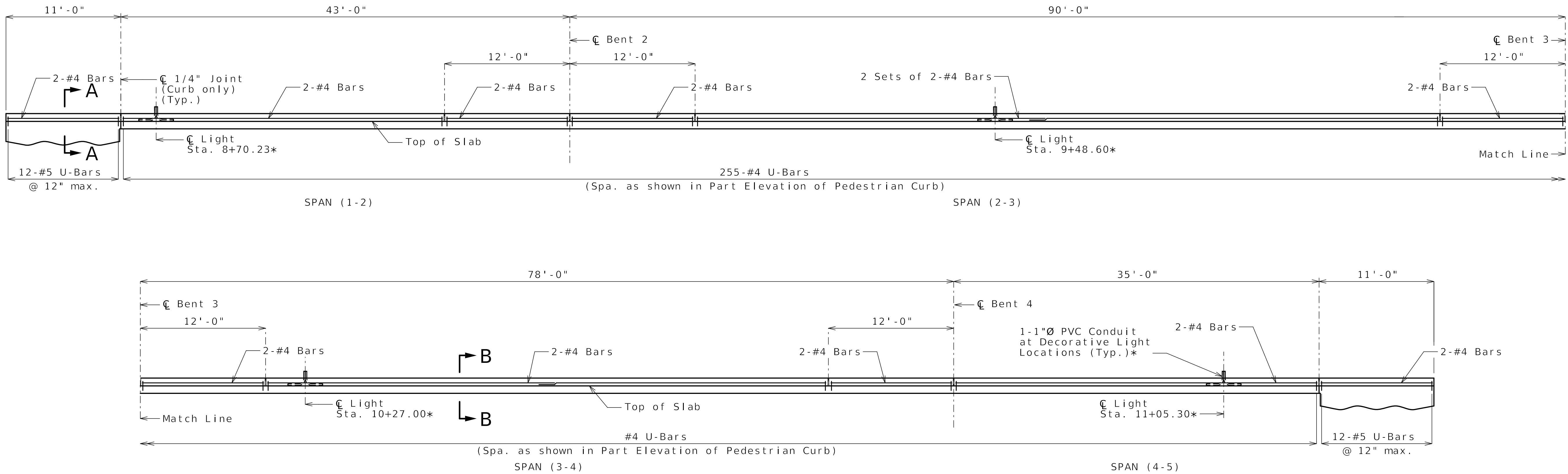


SLAB CONSTRUCTION JOINT

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Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

Notes:  
For Plan of Slab Showing Top and Bottom Reinforcement, see Sheets No. B03-17 and B03-18.  
For reinforcement of Pedestrian Curb not shown, see Sheet No. B03-20.  
For Details of Conduit System of Structure, see Sheet No. B03-23.  
For Decorative Pedestrian Fence Details, see Sheet No. B03-22.

SLAB DETAILS

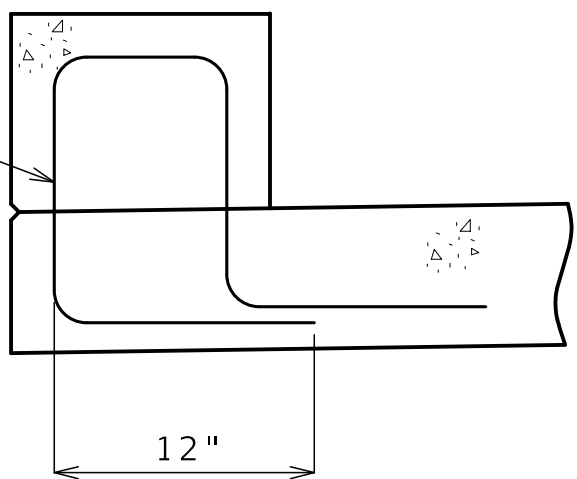


ELEVATION OF PEDESTRIAN CURB

(Left curb shown, right curb similar)  
Longitudinal dimensions are horizontal and measured along the outside of slab.

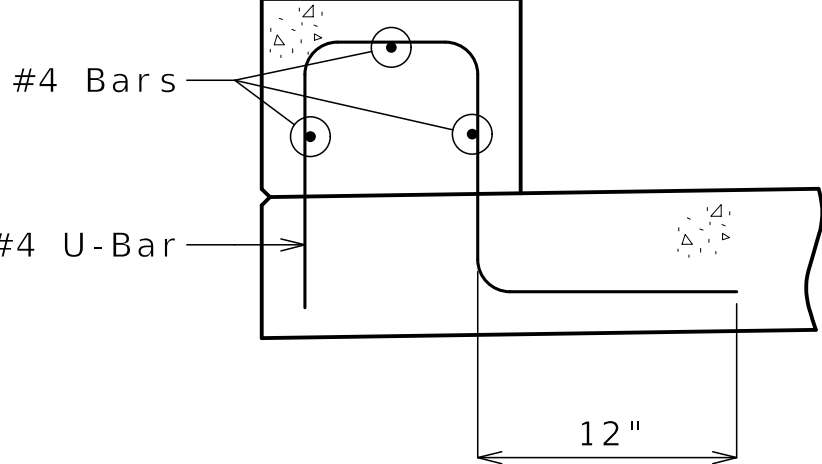
\*Right pedestrian curb only.

4-#4 U1-bars @ 12"  
Centered at Light Pole Locations



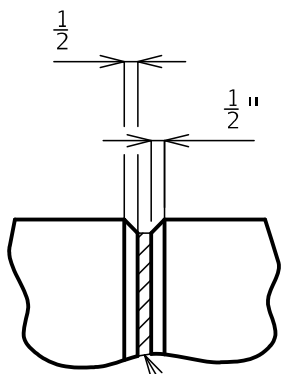
U1-BAR DETAIL AT LIGHT POLE

(At light locations, U1-Bars to be used in lieu of #4 U-bars shown in Section B-B)



ALTERNATE CURB REINFORCING DETAIL

(Alt for Section B-B shown, alt for Section A-A similar)



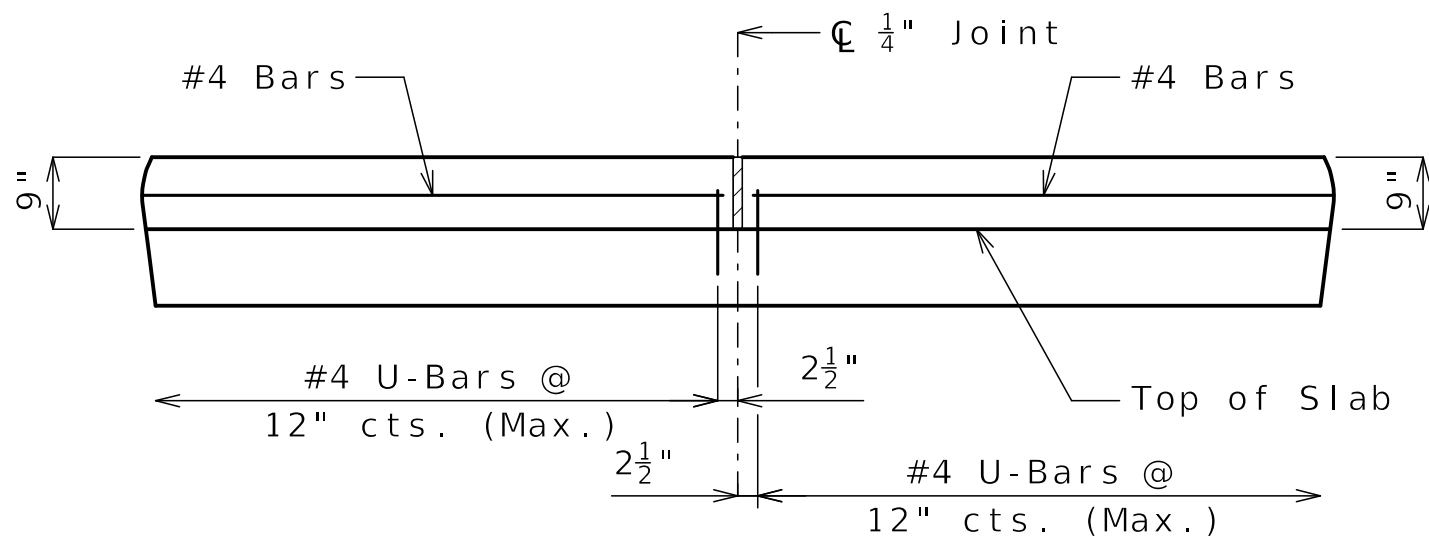
1/4" Joint Filler (Sec 1057)

PART ELEVATION AT CURB JOINT

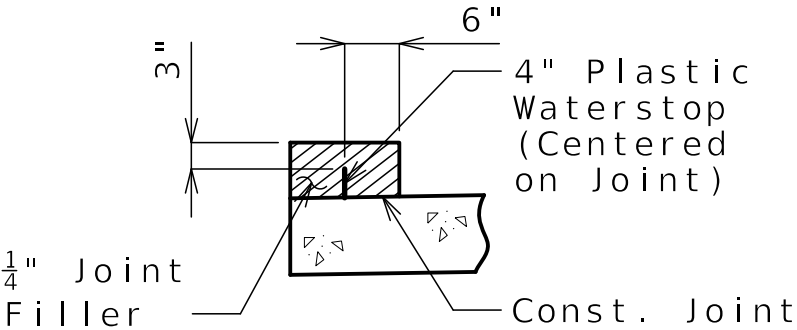
Notes:

- Conventional forming shall be used for all pedestrian curb.
- Locating and pre-setting fence post u-bolts with tack welded #4 bars prior to slab pour is recommended.
- Top of curb shall be built parallel to grade and curb joints (except at end bents) normal to grade.
- All exposed edges of pedestrian curb shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.
- Concrete in the pedestrian curb shall be Class B-1.
- Center of posts shall clear curb joints or ends by at least 6 inches.
- Slab reinforcement not shown for clarity.
- For details of decorative pedestrian fence not shown, see Sheet No. B03-22.
- For details of Decorative Lighting, see Lighting plans.

PEDESTRIAN CURB DETAILS

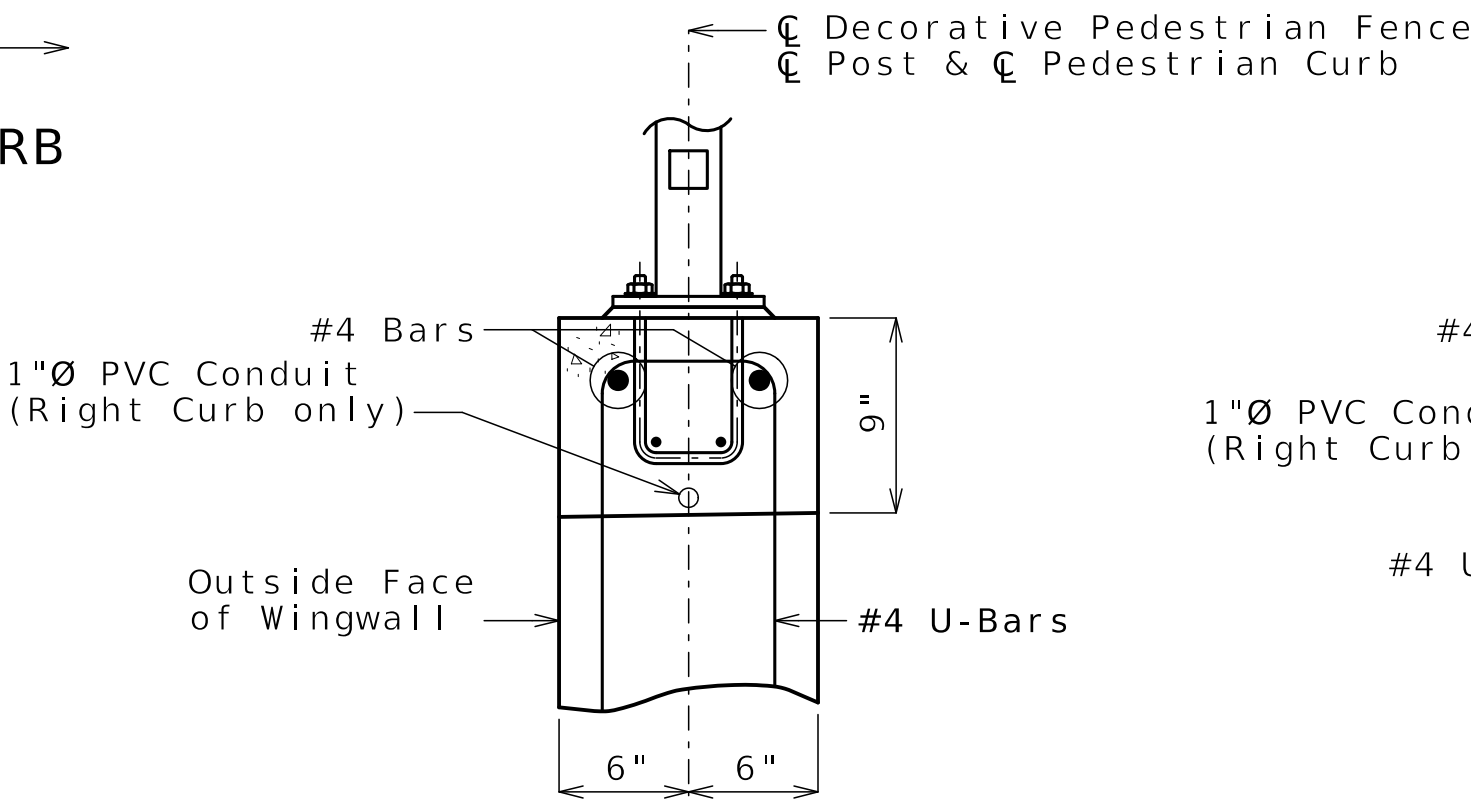


PART ELEVATION OF PEDESTRIAN CURB

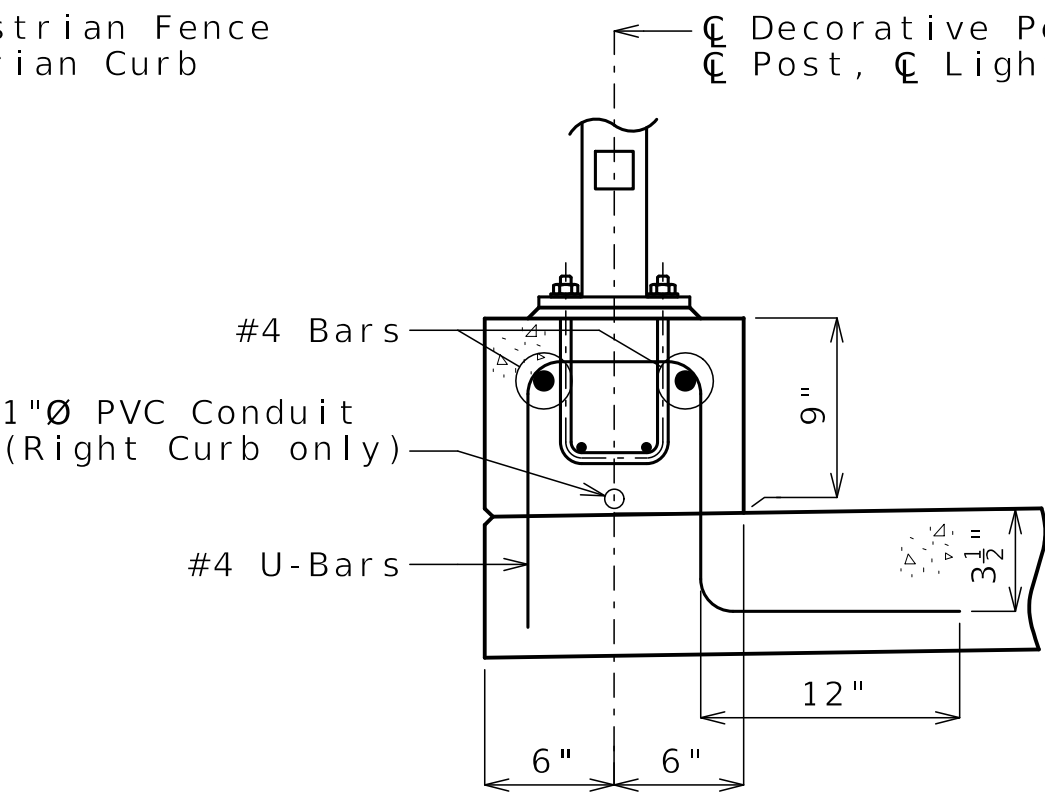


PLASTIC WATERSTOP DETAIL

Plastic waterstop shall be placed in all pedestrian curb filled joints, except structures with superelevation, use on lower joints only.



SECTION A-A



SECTION B-B

Use a minimum lap of 2'-7" for #4 horizontal curb bars.

Sheet No. B03-20 of B03-28

Note: This drawing is not to scale. Follow dimensions.

Detailed DEC 2024  
Checked JAN 2025



Benjamin Lichty  
04-11-2025

DATE PREPARED 04/11/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B03-20
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9629

DESCRIPTION	DATE
REV 0 - RFC SUBMITTAL	04/11/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

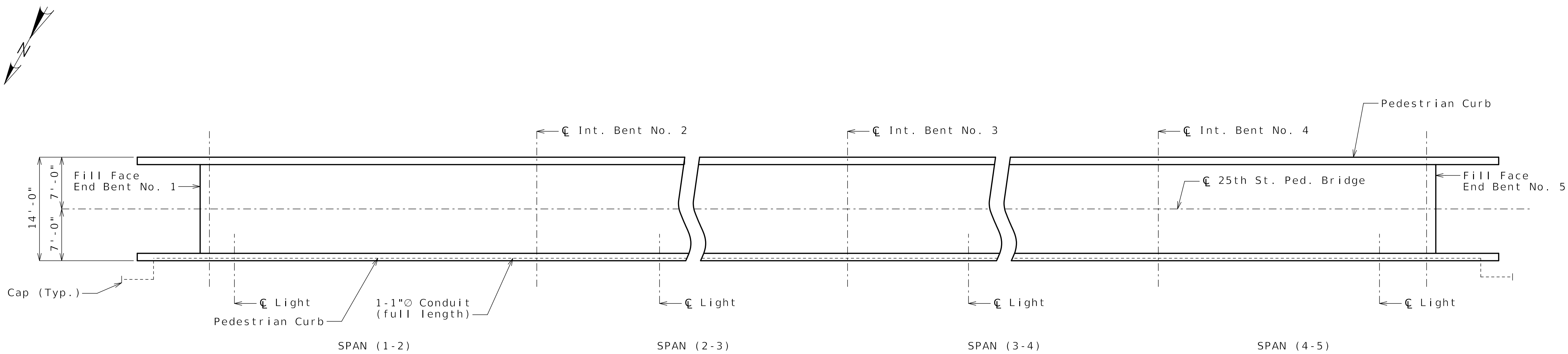
HNTB



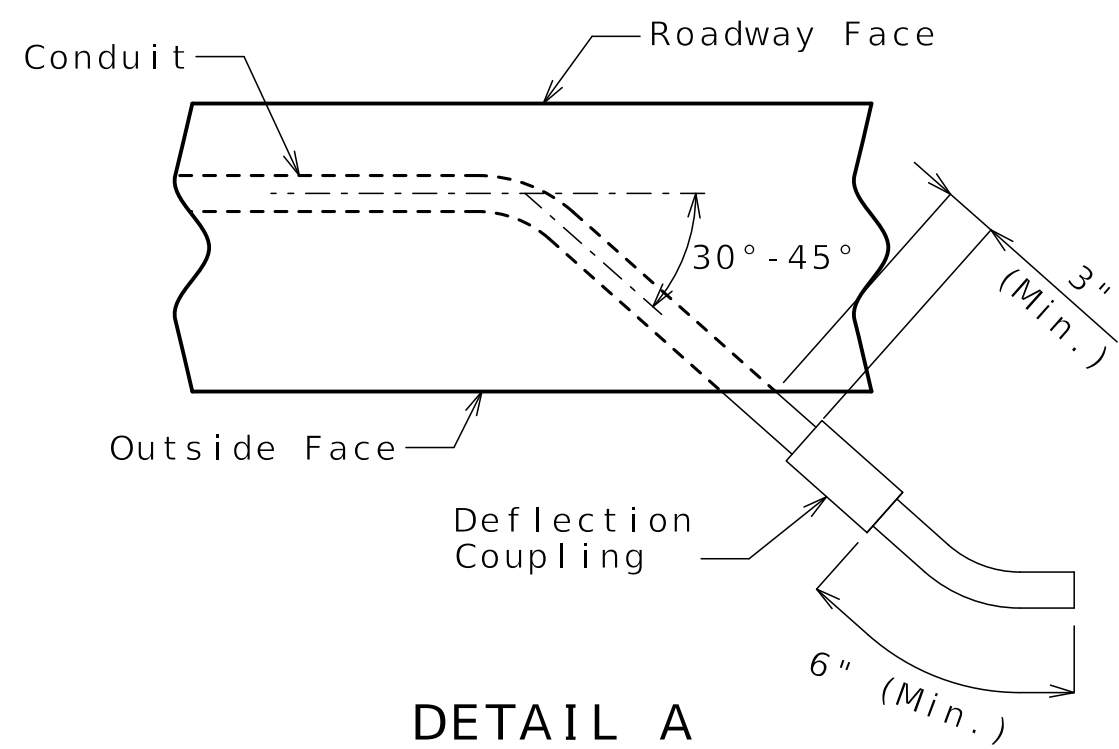




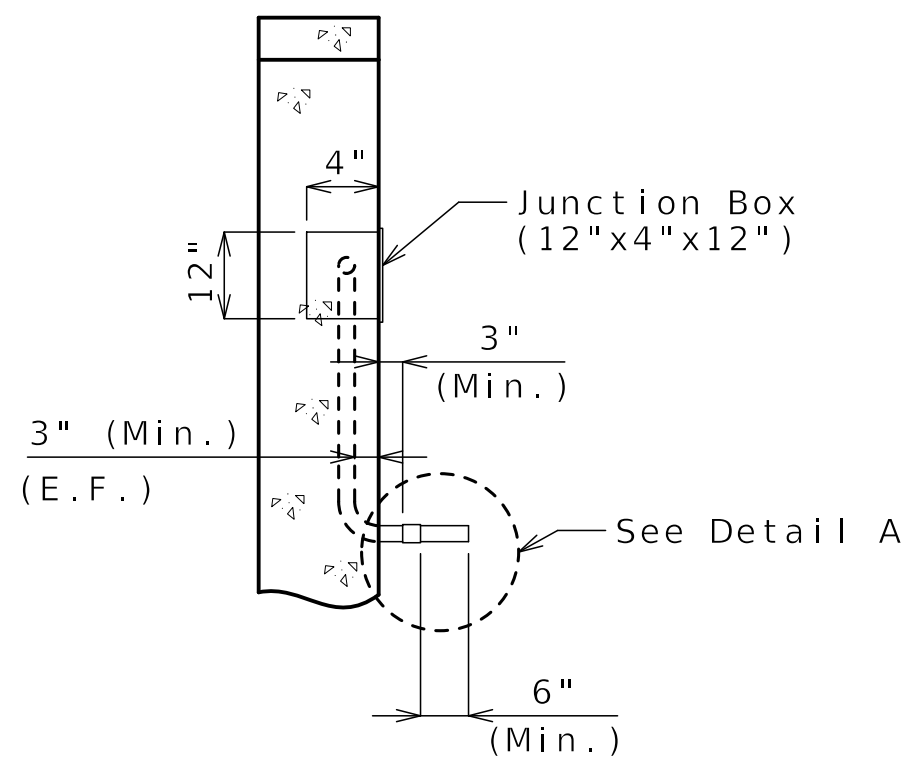




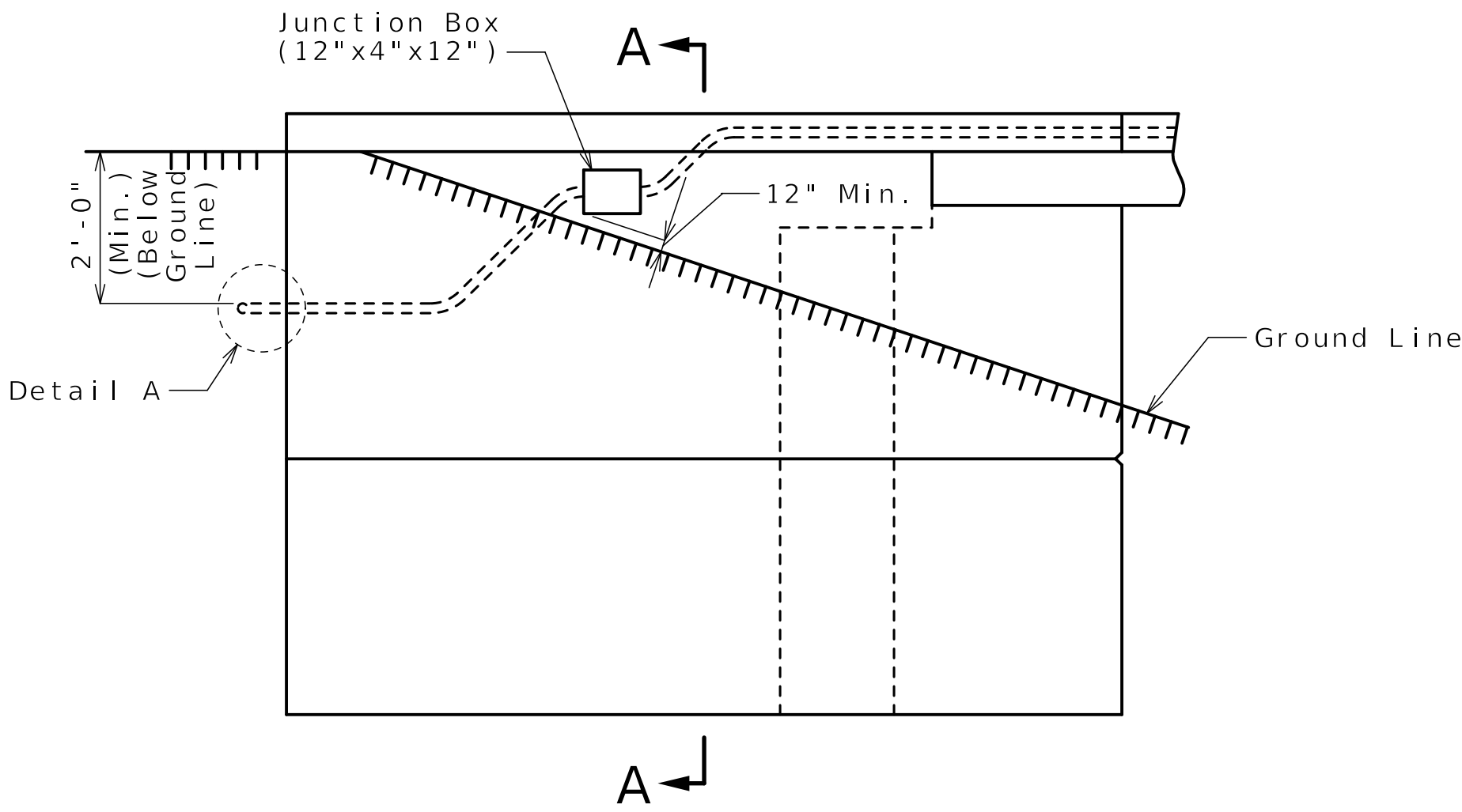
PLAN OF CONDUIT SYSTEM



DETAIL A



PART SECTION A-A

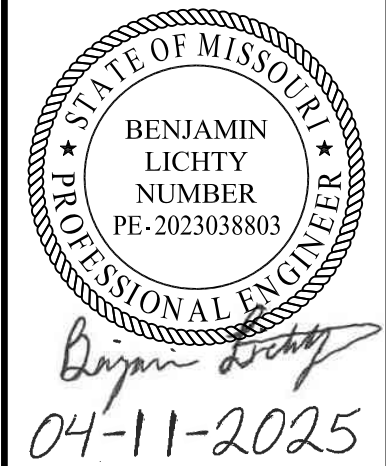


PART WINGWALL ELEVATION

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Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

Notes:  
All conduit shall be rigid non-metallic schedule 40 heavy wall PVC (polyvinyl chloride plastic) with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.  
Shift reinforcing steel in field where necessary to clear conduit and junction boxes.  
Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total movement of 1 inch at filled joints using a maximum temperature range of 120°F and a maximum temperature of 110°F.  
All end bent junction boxes shall be PVC molded in accordance with Sec. 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be of watertight construction and shall meet requirements for NEMA 4X enclosure.  
Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

DETAILS OF CONDUIT SYSTEM ON STRUCTURE



DATE PREPARED 04/11/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B03-23
COUNTY JACKSON	
JOB NO. J4I1486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9629

DATE	DESCRIPTION
04/11/25	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

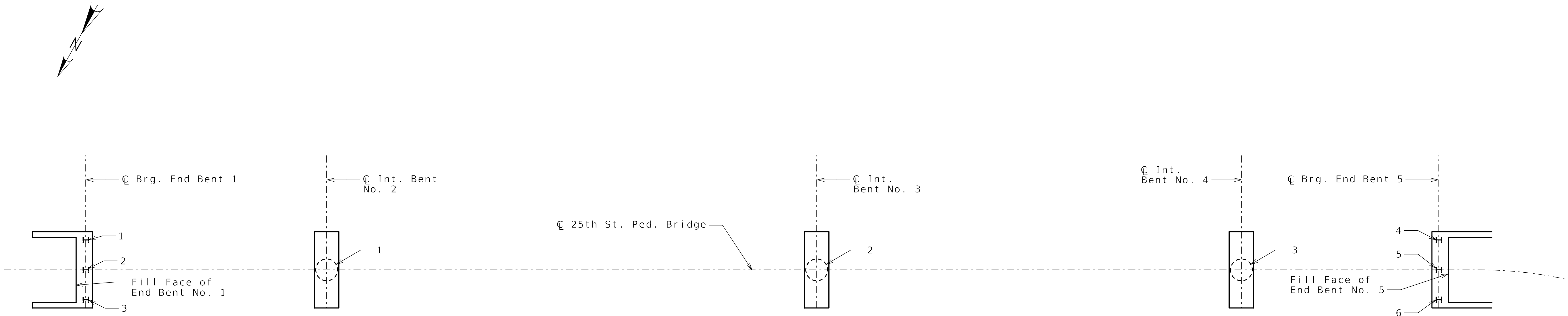
MoDOT

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

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PART PLAN SHOWING PILE AND DRILLED SHAFT NUMBERING FOR RECORDING AS-BUILT PILE DATA AND AS-BUILT DRILLED SHAFT DATA

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
					End Bent No. 1
1					
2					
3					
					End Bent No. 5
4					
5					
6					

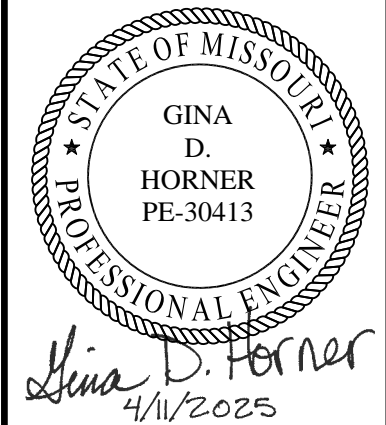
As-Built Drilled Shaft Data				
Shaft No.	Top of Sound Rock (Elev.)	Tip of Casing (Elev.)	Bottom of Drilled Shaft (Elev.)	Remarks
				Intermediate Bent No. 2
1				
				Intermediate Bent No. 3
2				
				Intermediate Bent No. 4
3				

Note:  
Indicate in remarks column:  
A. Pile type and grade.  
B. Batter  
C. Driven to practical refusal  
D. PDA test pile  
E. Minimum tip elevation controlled  
(Use when actual blow count is less than PDA blow count due to minimum tip elevation requirement. A plus sign (+) shall be placed after the PDA nominal axial compressive resistance value indicating actual value is higher than PDA value.)

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Not to Scale  
Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

Note:  
This sheet to be completed by design-builder.

AS-BUILT PILE AND DRILLED SHAFT DATA



DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03 - 24
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	
BRIDGE NO. A9629	

DESCRIPTION	DATE
REV 0 - RFC SUBMITTAL	04/11/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON  
RADMACHER  
JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270



# HNTB

## SOIL BORING NUMBER: 25Ped\_B2\_1

Page 1 of 2

<b>PROJECT</b> Improve I 70 KC Design Build	<b>NORTHING/EASTING</b> 1061069.6 / 2777612.7
<b>DRILLING FIRM</b> PPI	<b>DRILLER</b> Josh Starkey
<b>LOGGED BY</b> Zachary Boyd	<b>DATE STARTED</b> 12/16/2024
<b>SURFACE ELEVATION</b> 912.2'	<b>DATE COMPLETED</b> 12/17/2024
<b>METHOD</b> Watery Rotary	<b>RIG TYPE</b> CME-55LC
	<b>TOOLING</b> 4-1/2" Continuous Flight Auger

Depth (ft)	Depth of Sample	Sample Type	Sample ID	Recovery Length (in)	Blow Counts (N-Value)	% Recovery	RQD (%)	Pocket Pen (tsf)	Graphic Log	Groundwater Data				Lab												
										During Drilling (ft):		After Drilling (ft):		Atterberg Limits (LL-PL-Pi)	Moisture Content (%)	Dry Density (pcf)	UCS (tsf)									
										Visual Classification and Remarks																
										FILL, very stiff, brown, moist, SILTY LEAN CLAY, organics																
										4.4		907.8														
5	3.3 ft		J-1	12	5-8-50/2" (58)	86		>4.5						47-19-28	15.1											
	4.5 ft																									
	5 ft		C-1	6		100	100			Limestone, weathered, gray, moderately hard, some fossilization																
			C-2	60		100	72																			
														0.3	165.2	1634										
10	10 ft		C-3	60		100	80			- 6" clay seam at 10.3'																
										13.5		898.7		0.2	169.9	1736										
15	15 ft		C-4	60		100	35			Shale, highly weathered, dark gray, soft, vuggy																
										- becomes weathered at 17.4'				9.1	137.7	32										
20	20 ft		C-5	60		100	35																			
														11.0	133.5	20										
25	25 ft		C-6	60		100	47																			
30	30 ft		C-7	60		100	83			30.0 - becomes green-gray at 29'		882.2														
										Limestone, weathered, gray, vuggy																
										32.0		880.2														
										Limestone, slightly weathered to fresh, gray, hard, moist, slight green color 32-33'																
35	35 ft		C-8	60		100	77							0.2	166.7	1051										

Notes:  
For locations of borings, see Sheet No. B03-02  
and Geotechnical Report.

## BORING LOGS





SOIL BORING NUMBER: 25Ped\_B2\_1

Page 2 of 2

PROJECT Improve I 70 KC Design Build  
NORTHING/EASTING 1061069.6 / 2777612.7  
DRILLING FIRM PPI  
DRILLER Josh Starkey  
DATE STARTED 12/16/2024  
LOGGED BY Zachary Boyd  
DATE COMPLETED 12/17/2024  
SURFACE ELEVATION 912.2'  
RIG TYPE CME-55LC  
METHOD Watery Rotary  
TOOLING 4-1/2" Continuous Flight Auger

Depth (ft)	Depth of Sample	Sample Type	Sample ID	Recovery Length (in)	Blow Counts (N-Value)	% Recovery	RQD (%)	Pocket Pen (tsf)	Graphic Log	Groundwater Data		Lab				Visual Classification and Remarks
										During Drilling (ft):	N/A	Atterberg Limits (LL-PL-Pi)	Moisture Content (%)	Dry Density (PCF)	UCS (tsf)	
40			C-8	60		100										Limestone, slightly weathered to fresh, gray, hard, moist, slight green color 32-33'
40.0											872.2					Bottom of Boring at 40' Boring backfilled with cuttings 12/17/2024



SOIL BORING NUMBER: 25Ped\_B3\_1

Page 1 of 2

PROJECT Improve I 70 KC Design Build  
NORTHING/EASTING 1061103.2 / 2777688.1  
DRILLING FIRM PPI  
DRILLER David Allen  
DATE STARTED 12/10/2024  
LOGGED BY Pradip Adhikari  
DATE COMPLETED 12/10/2024  
SURFACE ELEVATION 902.5\*  
RIG TYPE CME-55  
METHOD Water Rotary  
TOOLING 4-1/2" Continuous Flight Auger

Depth (ft)	Depth of Sample	Sample Type	Sample ID	Recovery Length (in)	Blow Counts (N-Value)	% Recovery	RQD (%)	Pocket Pen (tsf)	Graphic Log	Groundwater Data		Lab				Visual Classification and Remarks
										During Drilling (ft):	N/A	Atterberg Limits (LL-PL-Pi)	Moisture Content (%)	Dry Density (PCF)	UCS (tsf)	
0.4											902.1					ASPHALT
1.1											901.4					Base
3.5											899					FILL, FILL, gray and brown, moist, LEAN CLAY
5	3.5 ft	J-1		12	13-27-50/5" (77/11")	67		>4.5								Shale, medium bedded, weathered, gray, moderately hard
10	8.5 ft	J-2		5.5	50/5.5"	100		>4.5								
15	13.5 ft	C-1			50/0" ()	100	60									
20	18.5 ft	C-2				100	86									18.5 884
20.5											882					Limey shale, thinly bedded, weathered, gray, moderately hard
25	23.5 ft	C-3				100	88									Limestone, medium bedded, slightly weathered, very fine grained, light gray, moderately hard
30	28.5 ft	C-4				100	91									32.5 870
35	33.5 ft	C-5				100	51									Shale, medium bedded, weathered, gray, moderately hard

\* Survey not possible due to boring location. Coordinates estimated from visual inspection. Elevation estimated from contour map.

Released For Construction  
Not to Scale  
Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

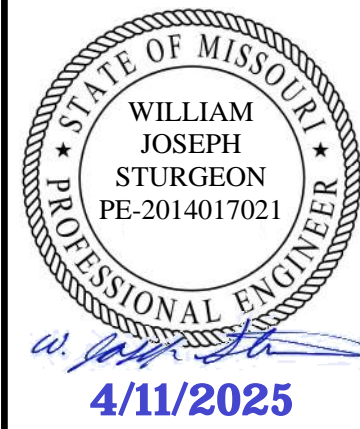
Notes:  
For locations of borings, see Sheet No. B03-02 and Geotechnical Report.

BORING LOGS

Detailed DEC 2024  
Checked JAN 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. B03-26 of B03-28



DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03 - 26
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807 - C01	
PROJECT NO.	
BRIDGE NO. A9629	

DATE	DESCRIPTION
04/11/25	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY NO. 001270





SOIL BORING NUMBER: 25Ped\_B3\_1

Page 2 of 2

PROJECT Improve I 70 KC Design Build  
NORTHING/EASTING 1061103.2 / 2777688.1  
DRILLING FIRM PPI  
DRILLER David Allen  
DATE STARTED 12/10/2024  
LOGGED BY Pradip Adhikari  
DATE COMPLETED 12/10/2024  
SURFACE ELEVATION 902.5\*  
RIG TYPE CME-55  
METHOD Water Rotary  
TOOLING 4-1/2" Continuous Flight Auger

Depth (ft)	Depth of Sample	Sample Type	Sample ID	Recovery Length (in)	Blow Counts (N-Value)	% Recovery	RQD (%)	Pocket Pen (tsf)	Graphic Log	Groundwater Data		Lab				Visual Classification and Remarks
										During Drilling (ft):	N/A	Atterberg Limits (LL-PL-P)	Moisture Content (%)	Dry Density (PCF)	UCS (tsf)	
37.5 ft	38.5 ft		C-5			100										Shale, medium bedded, weathered, gray, 38.5 moderately hard
40			C-6			100	96									Light gray
43.5																Bottom of Boring at 43.5' Boring backfilled with cuttings and patched with asphalt 12/10/2024

\* Survey not possible due to boring location. Coordinates estimated from visual inspection. Elevation estimated from contour map.



SOIL BORING NUMBER: 25Ped\_B4\_1

Page 1 of 2

PROJECT Improve I 70 KC Design Build  
NORTHING/EASTING 1061150.4 / 2777772.1  
DRILLING FIRM PPI  
DRILLER Josh Starkey  
DATE STARTED 12/18/2024  
LOGGED BY Cameron Dupont  
DATE COMPLETED 12/18/2024  
SURFACE ELEVATION 915.3'  
RIG TYPE CME-55LC  
METHOD Water Rotary  
TOOLING 4-1/2" Continuous Flight Auger

Depth (ft)	Depth of Sample	Sample Type	Sample ID	Recovery Length (in)	Blow Counts (N-Value)	% Recovery	RQD (%)	Pocket Pen (tsf)	Graphic Log	Groundwater Data		Lab				Visual Classification and Remarks
										During Drilling (ft):	N/A	Atterberg Limits (LL-PL-P)	Moisture Content (%)	Dry Density (PCF)	UCS (tsf)	
2.5																FILL, dark brown, high plasticity, moist, FAT CLAY
5	3.5 ft		J-1	14	5-10-16 (26)	78		>4.5				60-23-37	13.6			Shale, highly weathered, dark gray, stiff to very stiff, moist
6.7	5.3 ft		C-1	60		100	87									Limestone, slightly weathered to fresh, gray-blue, hard, thin shale seams throughout
12.6	10.3 ft		C-2	60		100	88									Shale, highly weathered, dark gray, soft to 14.0 stiff, interbedded with limestone
15.3	15.3 ft		C-3	50		83	8									Limestone, slightly weathered, dark gray, hard, calcareous
19.8	20.3 ft		C-4	59		98	52									Shale, highly weathered, dark gray, stiff to very stiff, moist
25.3	25.3 ft		C-5	60		100	97									- interbedded with limestone from 26.1' to 26.8'
30.3	30.3 ft		C-6	60		100	54									- becomes green-gray, limey at 28.3'
32.3	35.3 ft		C-7	60		100	90									Limestone with interbedded shale, weathered, gray-green, very stiff to hard, moist
34.7																Limestone, slightly weathered to fresh, gray, hard, moist

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Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

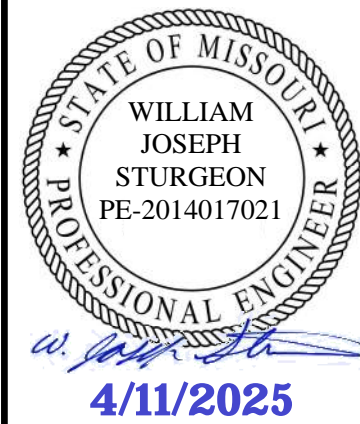
Notes:  
For locations of borings, see Sheet No. B03-02 and Geotechnical Report.

BORING LOGS

Detailed DEC 2024  
Checked JAN 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. B03-27 of B03-28



DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03 - 27
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807 - C01	
PROJECT NO.	
BRIDGE NO. A9629	

DATE	DESCRIPTION	REV	0	- RFC	SUBMITTAL
04/11/25					

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270





SOIL BORING NUMBER: 25Ped\_B4\_1

Page 2 of 2

PROJECT Improve I 70 KC Design Build      NORTHING/EASTING 1061150.4 / 2777772.1  
DRILLING FIRM PPI      DRILLER Josh Starkey      DATE STARTED 12/18/2024  
LOGGED BY Cameron Dupont      DATE COMPLETED 12/18/2024  
SURFACE ELEVATION 915.3'      RIG TYPE CME-55LC  
METHOD Water Rotary      TOOLING 4-1/2" Continuous Flight Auger

Depth (ft)	Depth of Sample	Sample Type	Sample ID	Recovery Length (in)	Blow Counts (N-Value)	% Recovery	RQD (%)	Pocket Pen (tsf)	Graphic Log	Groundwater Data		Lab				Visual Classification and Remarks
										During Drilling (ft):	N/A	Atterberg Limits (LL-PL-PI)	Moisture Content (%)	Dry Density (PCF)	UCS (tsf)	
			C-7	60		100										
40																Limestone, slightly weathered to fresh, gray, 38.3 hard, moist 877
																Shale, highly weathered, green-gray, stiff, 38.9 moist 876.4
45																40.3 Limestone, slightly weathered, gray, hard 875
																Bottom of Boring at 40.3'
																Boring backfilled with cuttings 12/18/2024
50																
55																
60																
65																
70																



SOIL BORING NUMBER: 25Ped\_B5\_1

Page 1 of 1

PROJECT Improve I 70 KC Design Build      NORTHING/EASTING 1061172.1 / 2777809.8  
DRILLING FIRM PPI      DRILLER Josh Starkey      DATE STARTED 12/18/2024  
LOGGED BY Cameron Dupont      DATE COMPLETED 12/18/2024  
SURFACE ELEVATION 929.6'      RIG TYPE CME-55LC  
METHOD Auger      TOOLING 4-1/2" Continuous Flight Auger

Depth (ft)	Depth of Sample	Sample Type	Sample ID	Recovery Length (in)	Blow Counts (N-Value)	% Recovery	RQD (%)	Pocket Pen (tsf)	Graphic Log	Groundwater Data		Lab				Visual Classification and Remarks
										During Drilling (ft):	N/A	Atterberg Limits (LL-PL-PI)	Moisture Content (%)	Dry Density (PCF)	UCS (tsf)	
4	4 ft															FILL, dark brown, stiff, high plasticity, moist, FAT CLAY
5	5.5 ft	C-1	18			100	28									Limestone, highly weathered to weathered, tan-gray, hard, vuggy, orange sandstone seams throughout
		C-2	60			100	63						0.2	160.0	489	- sandstone seams every 4 inches from 8-10'
10	10.5 ft															- 3" shale seam, soft, moist at 11.6'
		C-3	60			100	78						0.4	165.7	934	13.3 Shale, highly weathered, dark gray, soft, clayey, moist
15	15.5 ft															21.5 Limestone, slightly weathered to fresh, gray, hard, calcareous
		C-4	60			100	78						13.3	126.0	17	
20	20.5 ft															27.1 Limestone, slightly weathered to fresh, gray, hard, calcareous
		C-5	58			97	80						0.4	165.1	1214	27.3 Shale seam (3"), soft, highly weathered
25	25.5 ft															Limestone, slightly weathered, gray, hard, moist
		C-6	60			100	73						0.6	166.1	423	30.5 Bottom of Boring at 30.5'
30																Boring backfilled with cuttings 12/18/2024
35																

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Revision: 0.0  
Date: 04/11/2025  
Package: BRD-03-25th\_ST\_PED

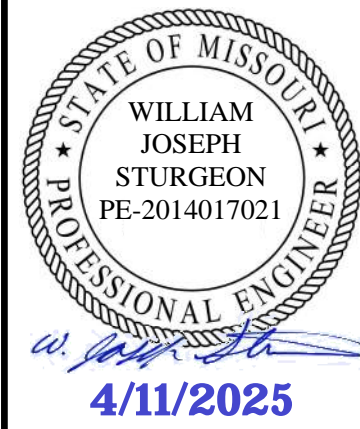
Notes:  
For locations of borings, see Sheet No. B03-02 and Geotechnical Report.

BORING LOGS

Detailed DEC 2024  
Checked JAN 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. B03-28 of B03-28



DATE PREPARED 04/11/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B03 - 28
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9629

DESCRIPTION	REV	DATE
0 - RFC SUBMITTAL	0	04/11/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270