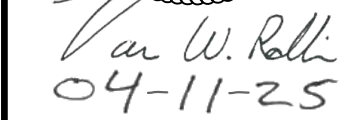


Note:
See Civil Package 2: Early Grading for project
reference points and project coordinate points.



DATE PREPARED
04/11/2025

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| ROUTE I - 70 | STATE MO |
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| DISTRICT | SHEET NO |
| BR | B04 - 0 |

COUNTY
JACKSON

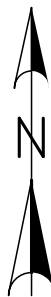
JOB NO.
1411486D

CONTRACT ID.
240807-C01

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| PROJECT NO. |
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BRIDGE NO.
A9632

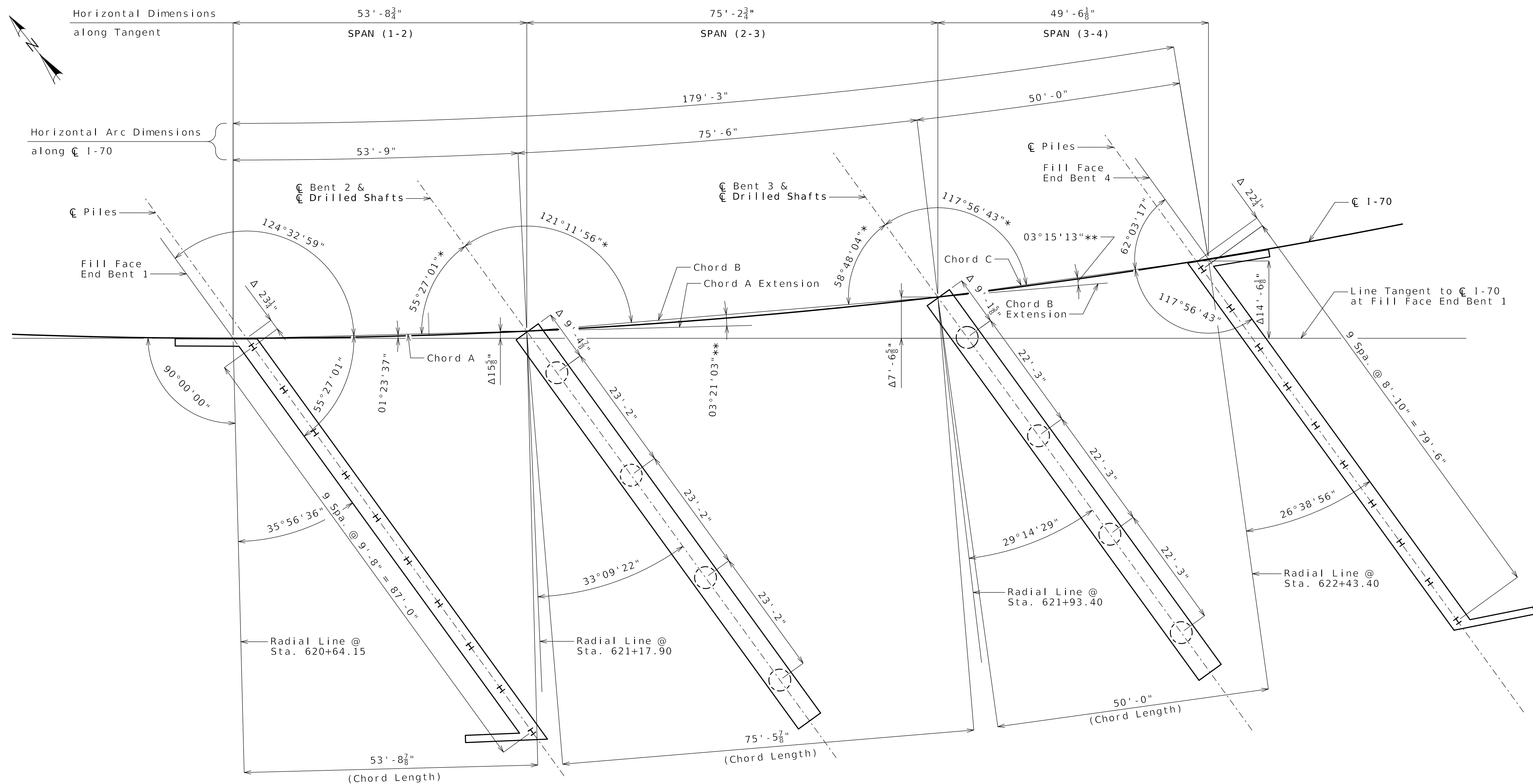
| | |
|--------|---|
| B04-01 | Title Sheet and Index |
| B04-02 | General Plan and Elevation |
| B04-03 | General Notes |
| B04-04 | Substructure Layout |
| B04-05 | Details of End Bent No. 1 |
| B04-06 | Details of End Bent No. 1 |
| B04-07 | Details of End Bent No. 1 |
| B04-08 | Vertical Drain at End Bents |
| B04-09 | Details of intermediate Bent No. 2 |
| B04-10 | Details of intermediate Bent No. 2 |
| B04-11 | Details of intermediate Bent No. 3 |
| B04-12 | Details of intermediate Bent No. 3 |
| B04-13 | Details of End Bent No. 4 |
| B04-14 | Details of End Bent No. 4 |
| B04-15 | Details of End Bent No. 4 |
| B04-16 | Framing Plan |
| B04-17 | NU-Girders-Span (1-2) |
| B04-18 | NU-Girders-Span (2-3) |
| B04-19 | NU-Girders-Span (3-4) |
| B04-20 | NU-Girder Details |
| B04-21 | Concrete Diaphragm at Intermediate Bents |
| B04-22 | Camber Diagram & Theoretical Slab Haunching Diagram |
| B04-23 | Theoretical Bottom of Slab Elevations |
| B04-24 | Slab Plan Showing Top Reinforcement |
| B04-25 | Slab Plan Showing Bottom Reinforcement |
| B04-26 | Slab Details |
| B04-27 | Slab Curve Ordinates |
| B04-28 | Type D Barrier |
| B04-29 | Type D Barrier at End Bents |
| B04-30 | Light Blister Details |
| B04-31 | Form Liner and Aesthetic Stain Details |
| B04-32 | Details of Conduit System on Structure |
| B04-33 | Bridge Approach Slab (Major) |
| B04-34 | As-Built Pile and Drilled Shaft Data |
| B04-35 | Boring Logs |
| B04-36 | Boring Logs |
| B04-37 | Boring Logs |
| B04-38 | Boring Logs |
| B04-39 | Boring Logs |
| B04-40 | Boring Logs |
| B04-41 | Boring Logs |



Released For Construction
Not to Scale
Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

ROUTE 1-70 EB FROM ROUTE 1-670 TO ROUTE 40
ABOUT 2.9 MILES EAST OF ROUTE 1-670
BEGINNING STATION 620+64.15



SUBSTRUCTURE LAYOUT

Released For Construction
Not to Scale

Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Ja

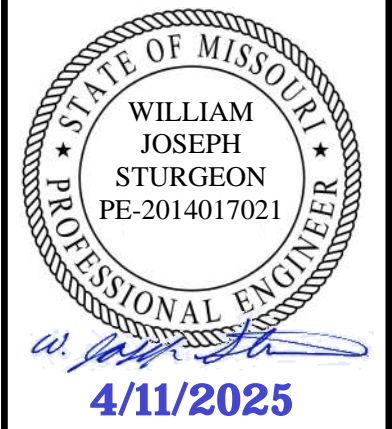
Date: 04/11/2025

Package: BRD-04-EB-70-Jackson

Notes:

- All stations are given along C 1-70.
- All dimensions are horizontal.
- * Angle between C Bent and chord.
- ** Angle between extended chord and chord.
- Δ Measured to C 1-70.

SUBSTRUCTURE LAYOUT



DATE PREPARED

04 / 11 / 2025

| | |
|-------|-------|
| ROUTE | STATE |
| I 70 | MO |

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

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|----------|-----------|
| DISTRICT | SHEET NO. |
| RD | RD 4 04 |

| | |
|--------|--------|
| BR | B04-04 |
| COUNTY | |

COUNTY
LACKSON

JACKSON

JOB NO.

1411486D

CONTRACT ID.

240807-C01

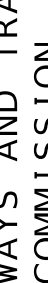
PROJECT NO.

BRIDGE NO.


A9632

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



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



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



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



CLARKSON
RADMACHER
JOINT VENTURE

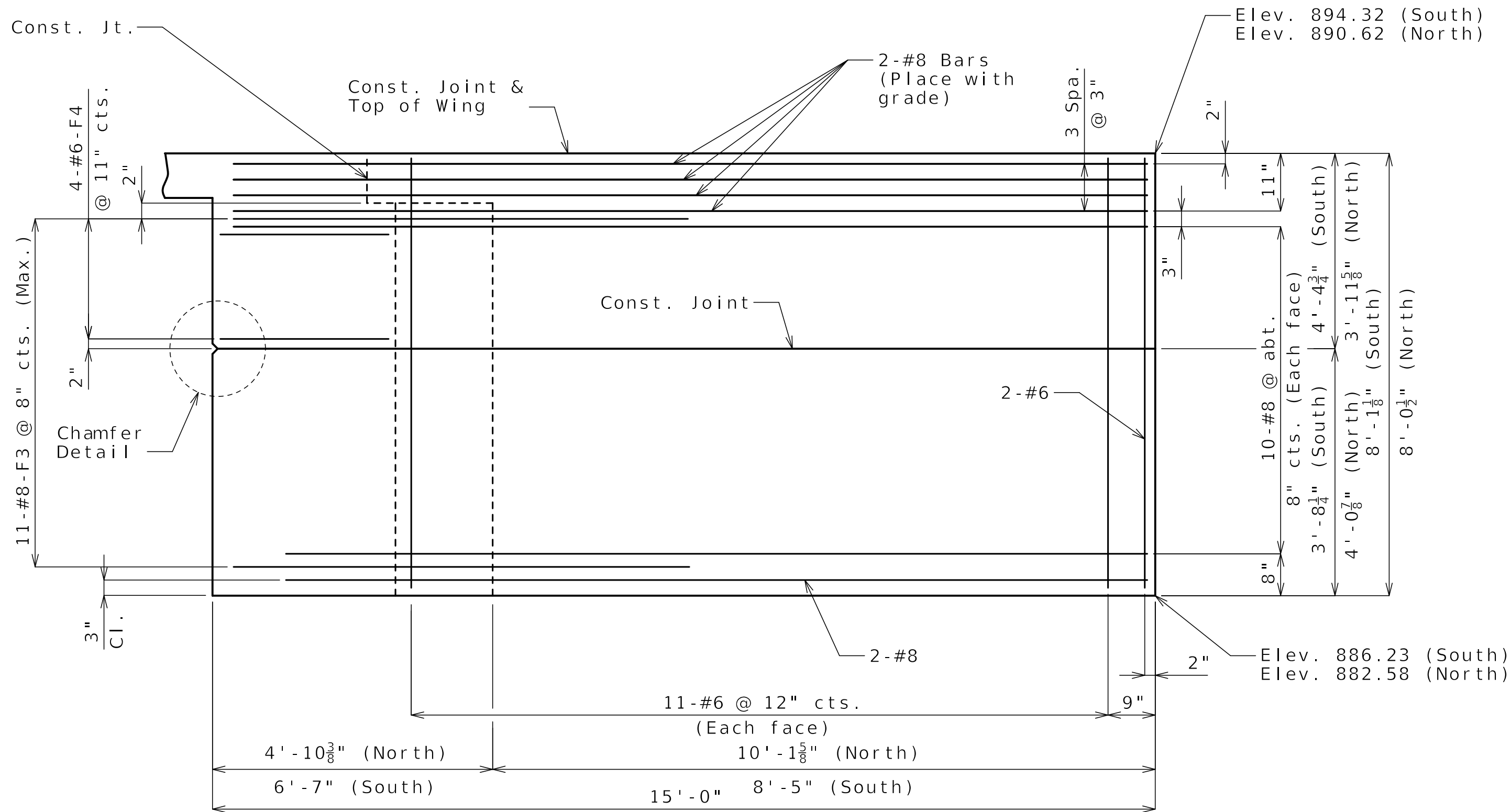
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

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

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

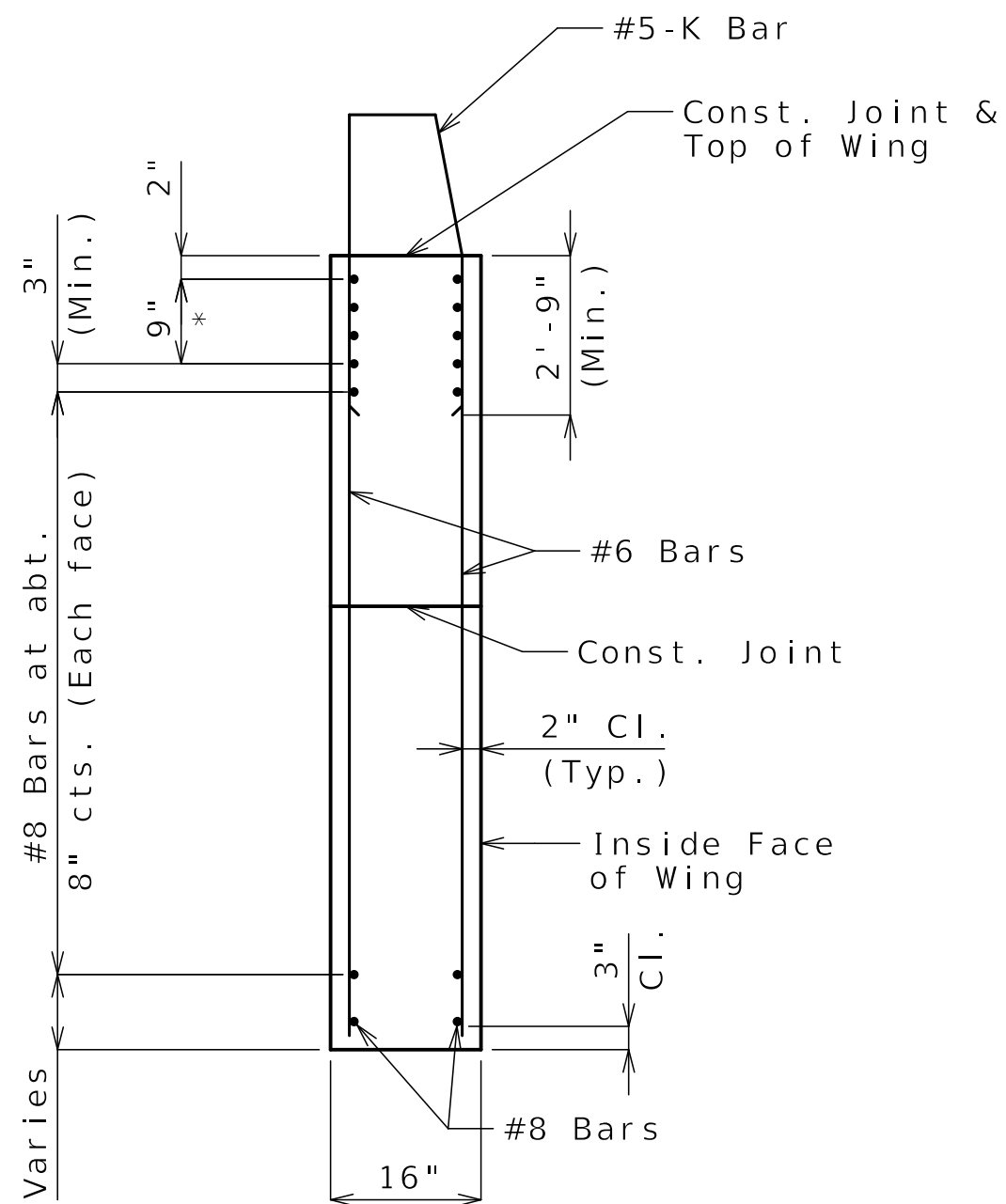
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270





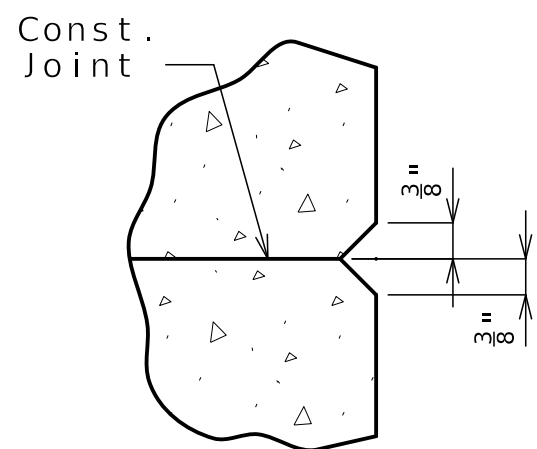
ELEVATION E-E

(North Wingwall shown, South wingwall similar except opposite hand)

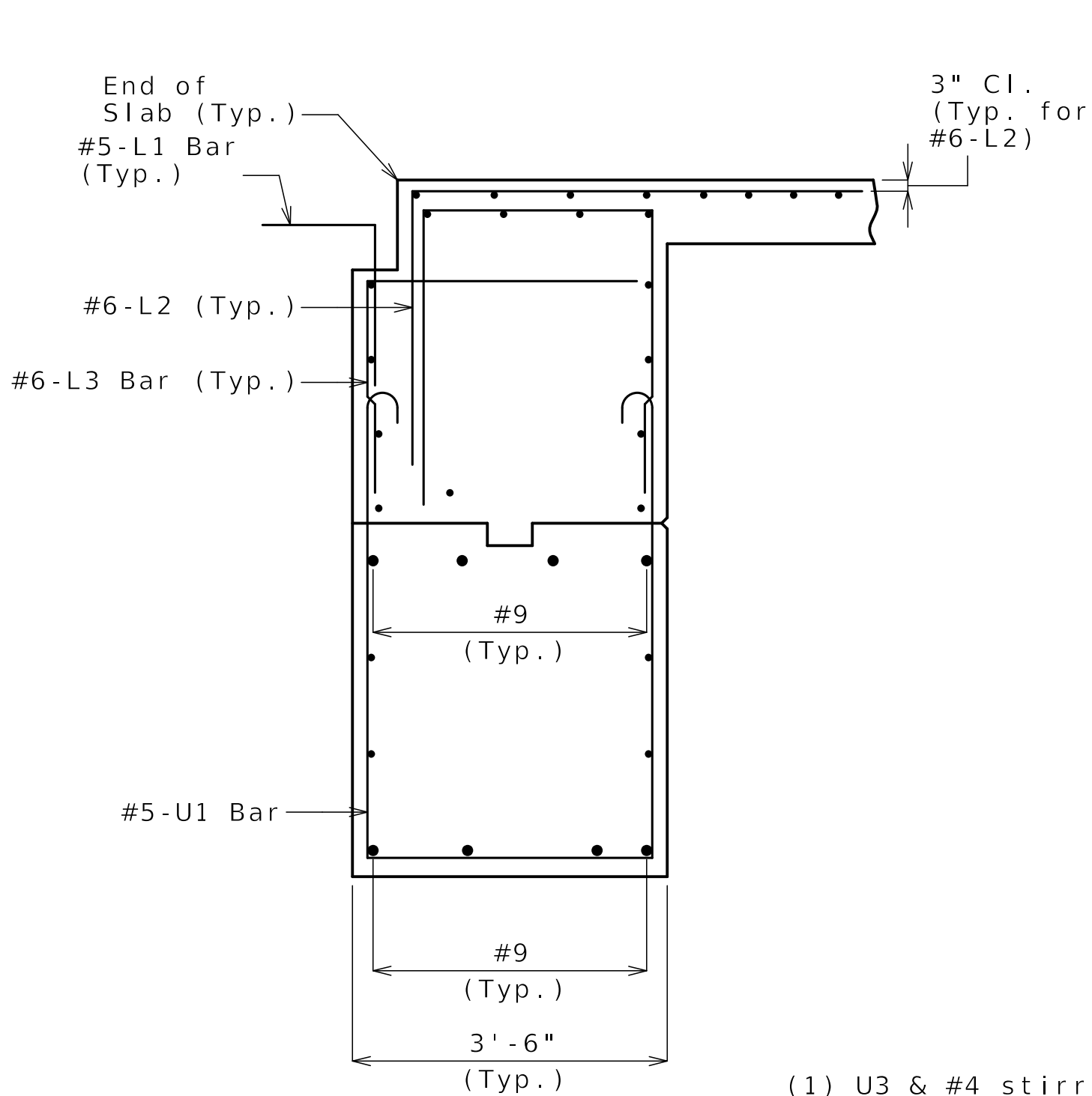


TYPICAL SECTION THRU WING

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

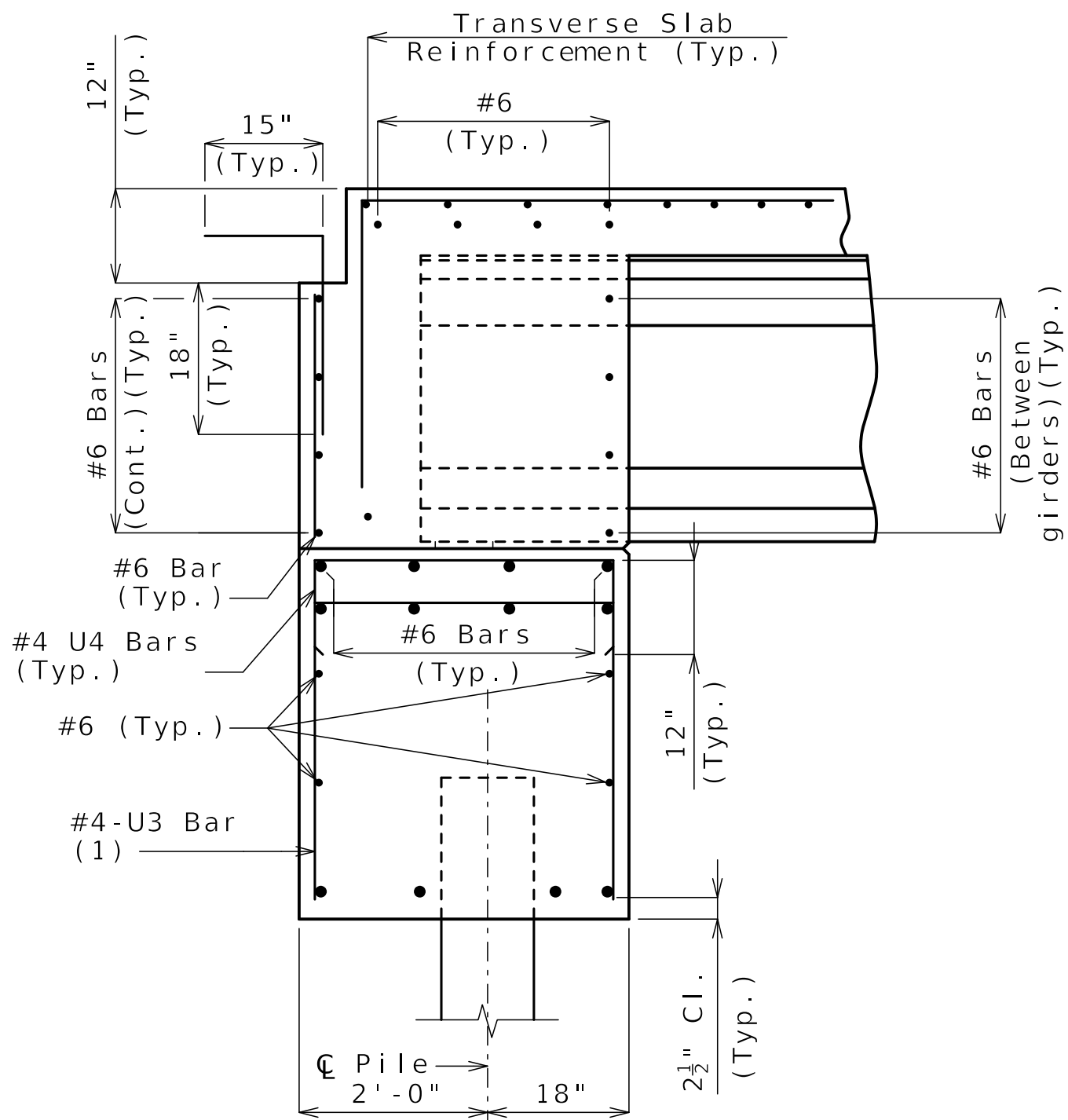


CHAMFER DETAIL

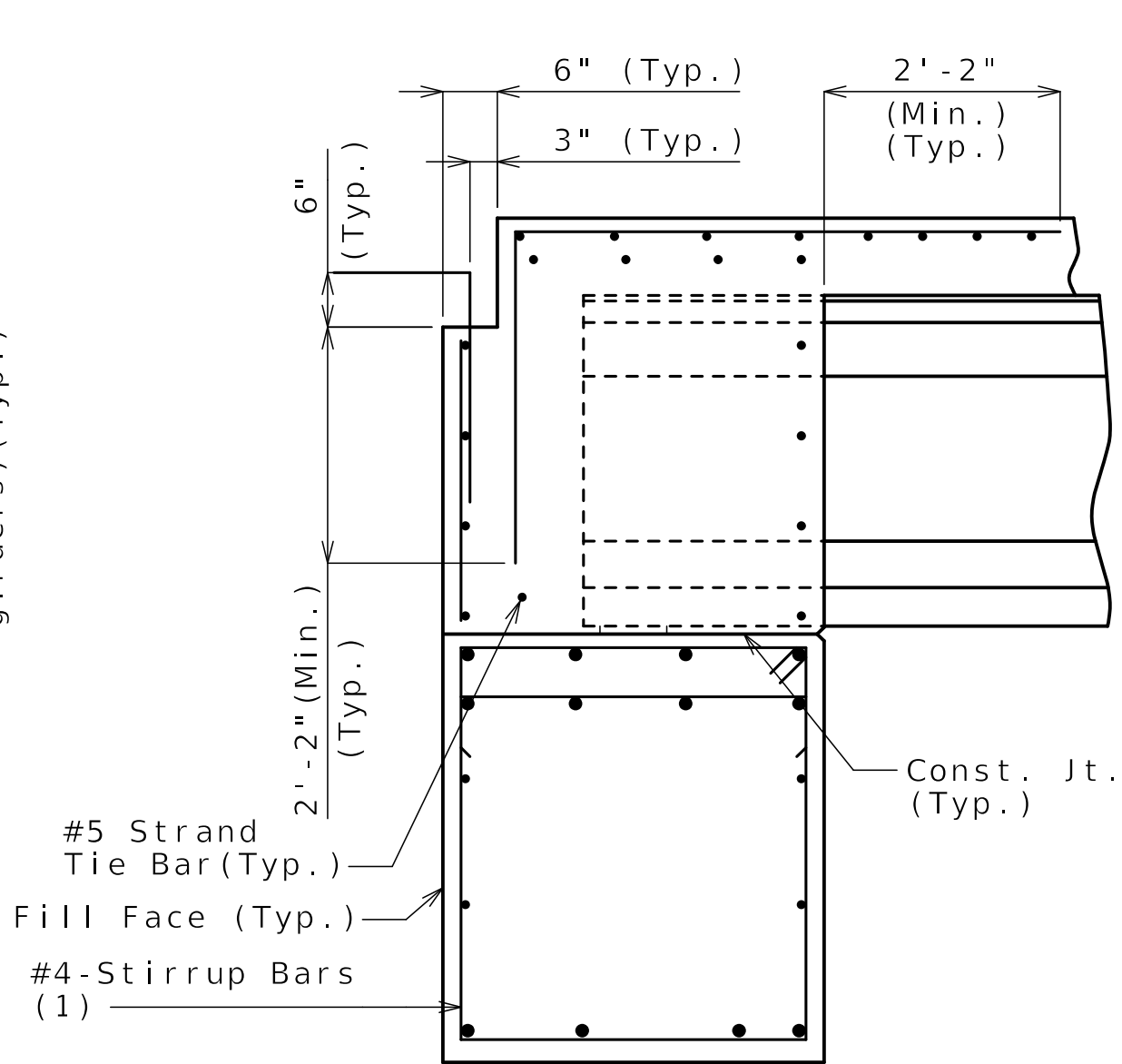


SECTION A-A

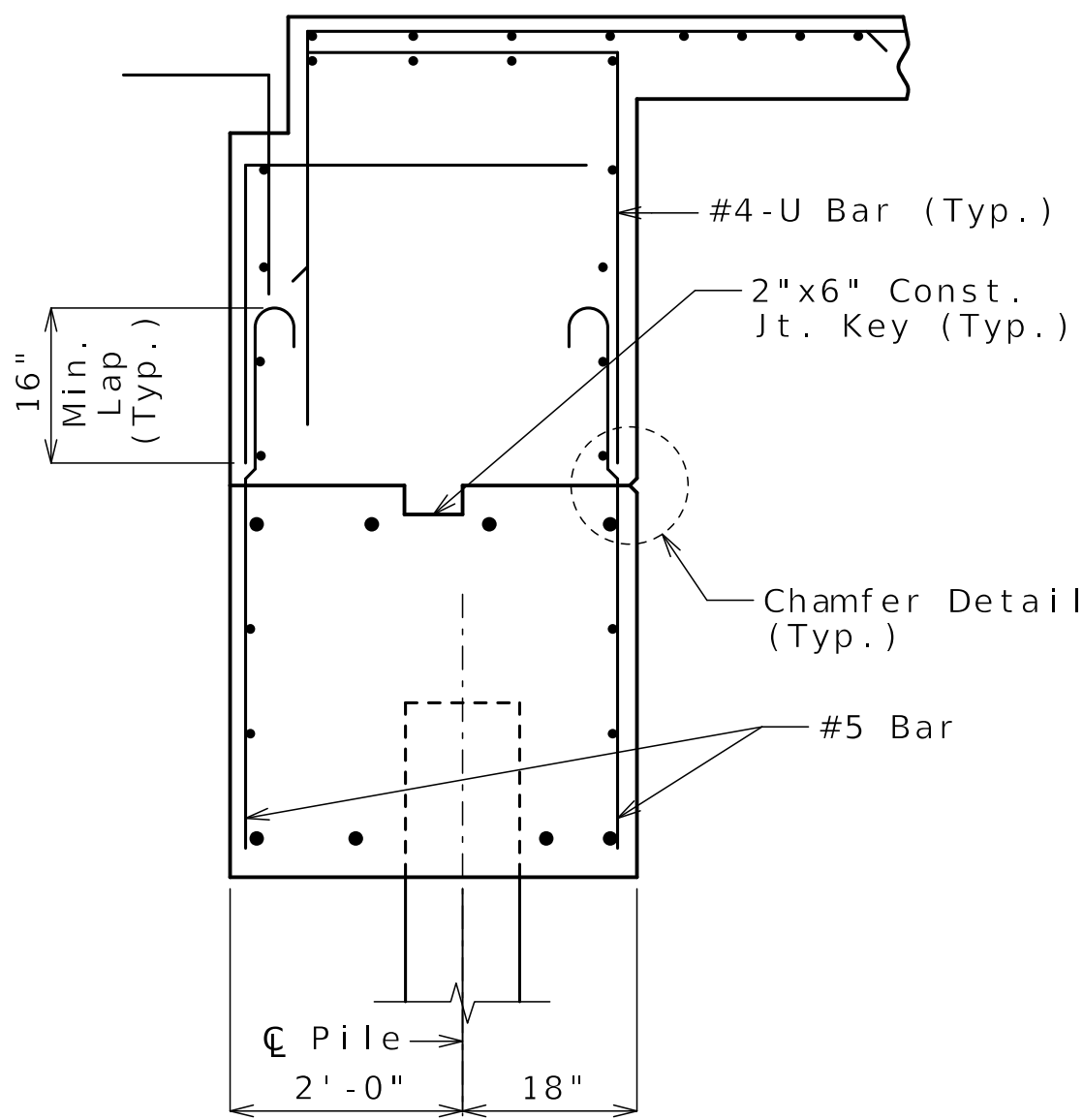
(1) U3 & #4 stirrup bar vertical leg = 3'-1 1/4"



SECTION B-B



SECTION C-C



SECTION D-D

Released For Construction
Not to Scale
Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

General Notes:
Work this sheet with Sheets No. B04-05 and B04-06.
For location of Sections A-A, B-B, C-C, D-D and Elevation E-E, see Sheet No. B04-06.
For reinforcement of the Type D Barrier, see Sheet No. B04-29.

DETAILS OF END BENT NO. 1



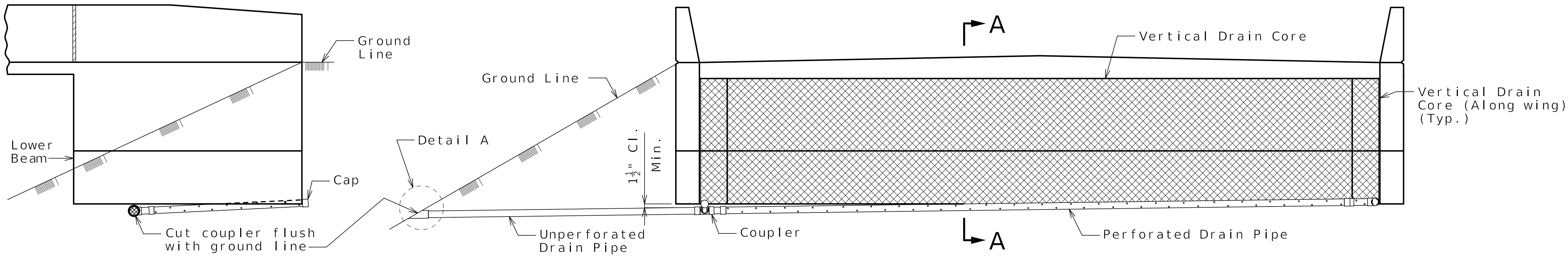
| | |
|-----------------------------|---------------------|
| DATE PREPARED 04/11/2025 | |
| ROUTE I-70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-07 |
| COUNTY JACKSON | |
| JOB NO. J411486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |

BRIDGE NO.
A9632

| DATE | DESCRIPTION |
|----------|-----------------------|
| 04/11/25 | REV 0 - RFC SUBMITTAL |
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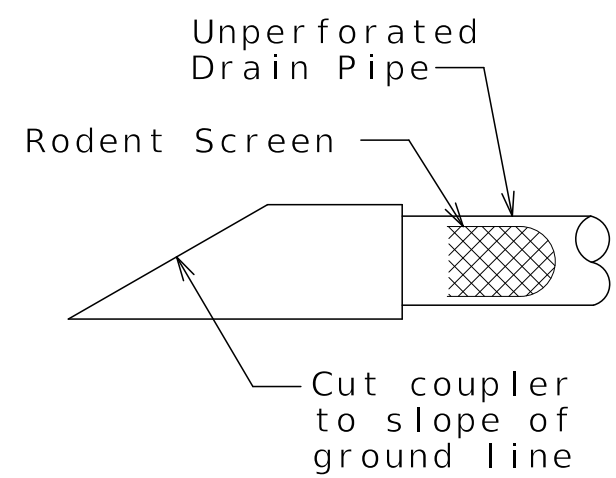
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
1-888-ASK-MODOT (1-888-275-6636)
105 WEST CAPITOL
JEFFERSON CITY, MO 65102

CLARKSON RADMACHER JOINT VENTURE
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270
HNTB

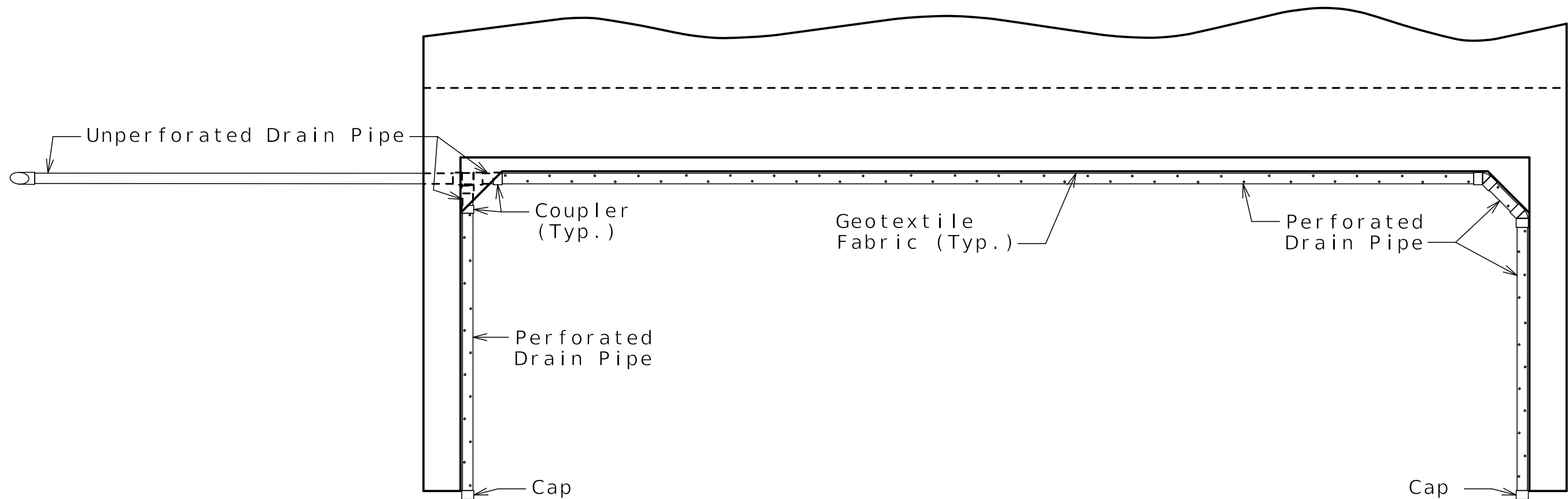


ELEVATION OF WING

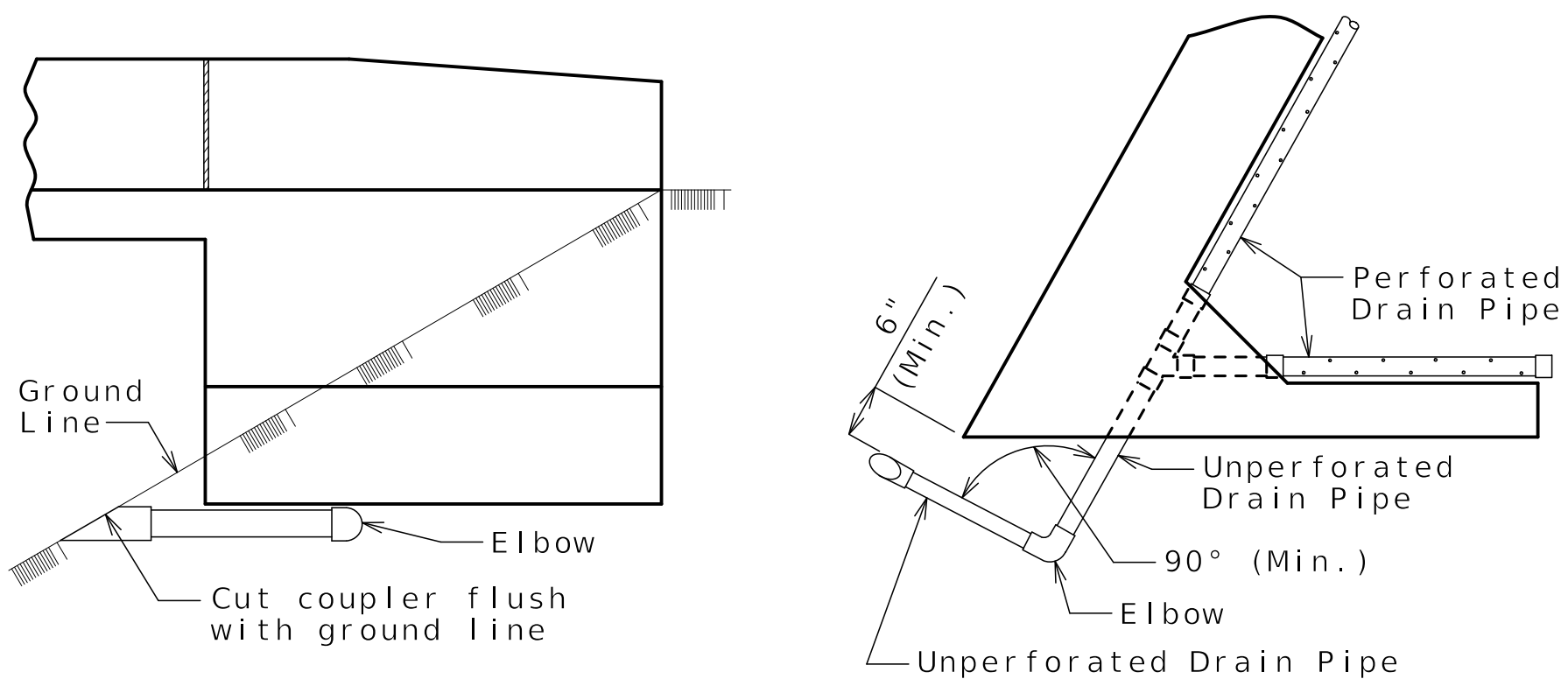
ELEVATION OF END BENT



DETAIL A



PLAN OF END BENT

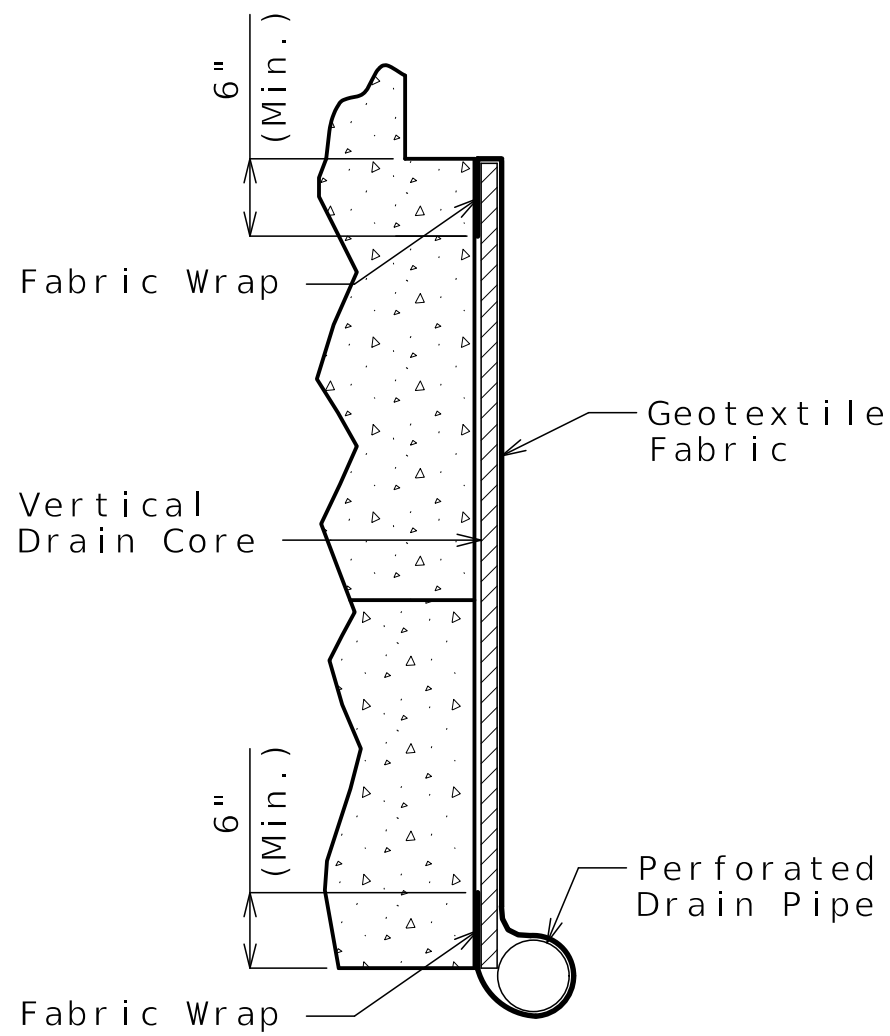


ELEVATION OF WING

PART PLAN

OPTIONAL TURNED DRAIN

(Use only when straight drain is not practical.)



PART SECTION A-A
(Section thru wing similar)

Released For Construction
Not to Scale
Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

General Notes:

Squared end bent shown, skewed end bent similar.

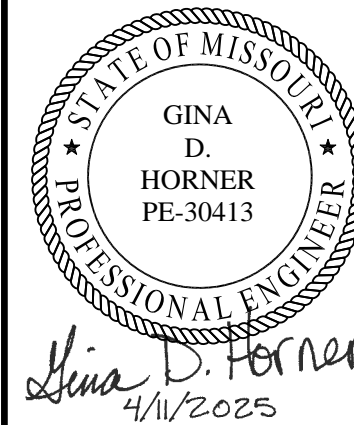
All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.

VERTICAL DRAIN AT END BENTS



DATE PREPARED
04/11/2025

ROUTE
I-70

STATE
MO

DISTRICT
BR

SHEET NO.
B04-08

COUNTY
JACKSON

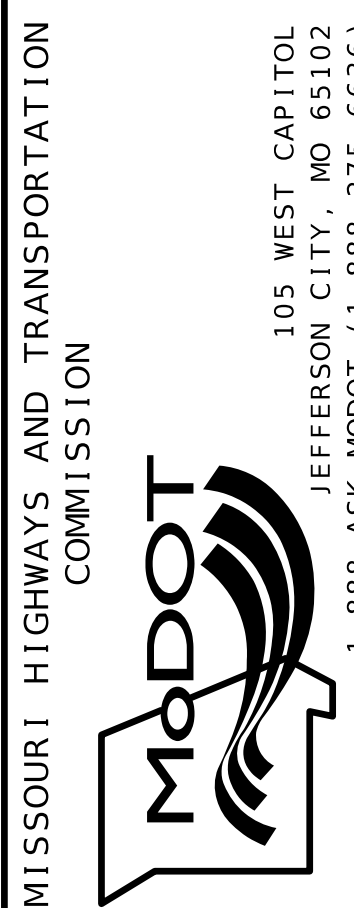
JOB NO.
J4I1486D

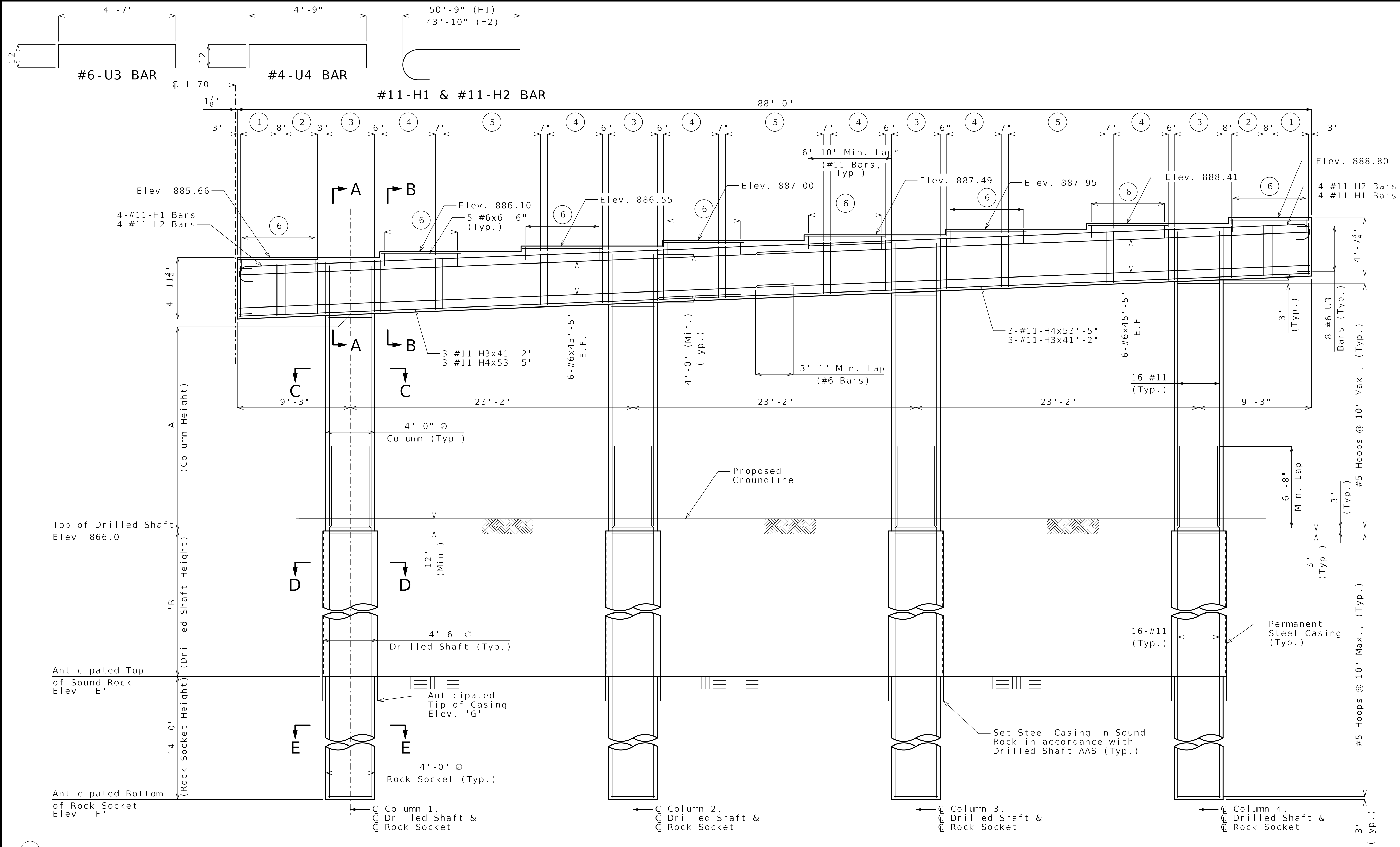
CONTRACT ID.
240807-C01

PROJECT NO.

BRIDGE NO.
A9632

| DATE | DESCRIPTION |
|----------|-----------------------|
| 04/11/25 | REV 0 - RFC SUBMITTAL |
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- 1 4-#6-U2 @ 12" cts.
- 2 5-#6-U2 @ 8" cts.
- 3 5-#6-U1 @ 12" cts.
- 4 10-#6-U2 @ 6" cts.
- 5 9-#6-U2 @ 12" cts.
- 6 13-#4-U4 @ 6" Spa.

| Table of Variables | | | | | |
|--------------------|------------------------|--------|-------|-------|-------|
| Column Number | "A" | "B" | "E" | "F" | "G" |
| 1 | 15'-0 $\frac{1}{2}$ " | 9'-6" | 856.5 | 842.5 | 854.5 |
| 2 | 15'-11 $\frac{1}{2}$ " | 12'-0" | 854.0 | 840.0 | 852.0 |
| 3 | 16'-10 $\frac{1}{2}$ " | 14'-6" | 851.5 | 837.5 | 849.5 |
| 4 | 17'-9 $\frac{1}{2}$ " | 17'-0" | 849.0 | 835.0 | 847.0 |

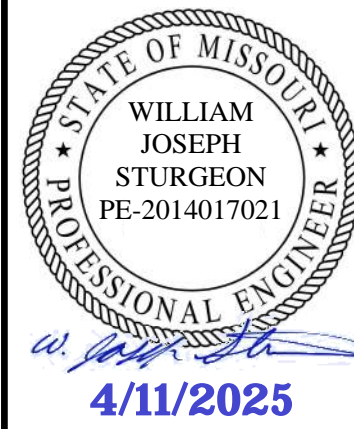
Note: This drawing is not to scale. Follow dimensions.

ELEVATION

Released For Construction
Not to Scale
Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

Notes:
* Alternate location of lap splices between adjacent bars about centerline of bent. Alternate lap splice not shown.
Prior to placing concrete for columns, position of vertical reinforcement shall be verified so as to provide clearance for capbeam reinforcement as applicable.
Work this sheet with Sheet No. B04-10.
Use ½" joint filler up vertical face of capbeam steps.
For location of drilled shafts, see Sheet No. B04-04.
For Sections A-A thru E-E, see Sheet No. B04-10.

DETAILS OF INTERMEDIATE BENT NO. 2



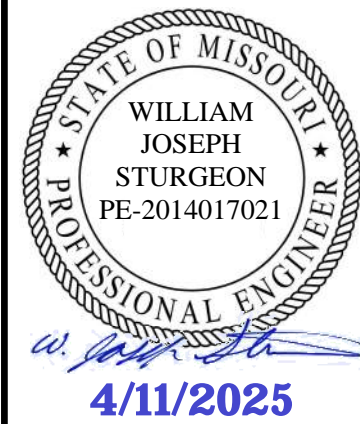
DATE PREPARED
04/11/2025
ROUTE
I-70
STATE
MO
DISTRICT
BR
SHEET NO.
B04-09
COUNTY
JACKSON
JOB NO.
J4I1486D
CONTRACT ID.
240807-C01
PROJECT NO.

BRIDGE NO.
A9632

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



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|-----------------------------|---------------------|
| DATE PREPARED 04/11/2025 | |
| ROUTE 1-70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-10 |
| COUNTY JACKSON | |
| JOB NO. J411486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |

BRIDGE NO.
A9632

| DATE | DESCRIPTION |
|----------|-----------------------|
| 04/11/25 | REV 0 - RFC SUBMITTAL |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

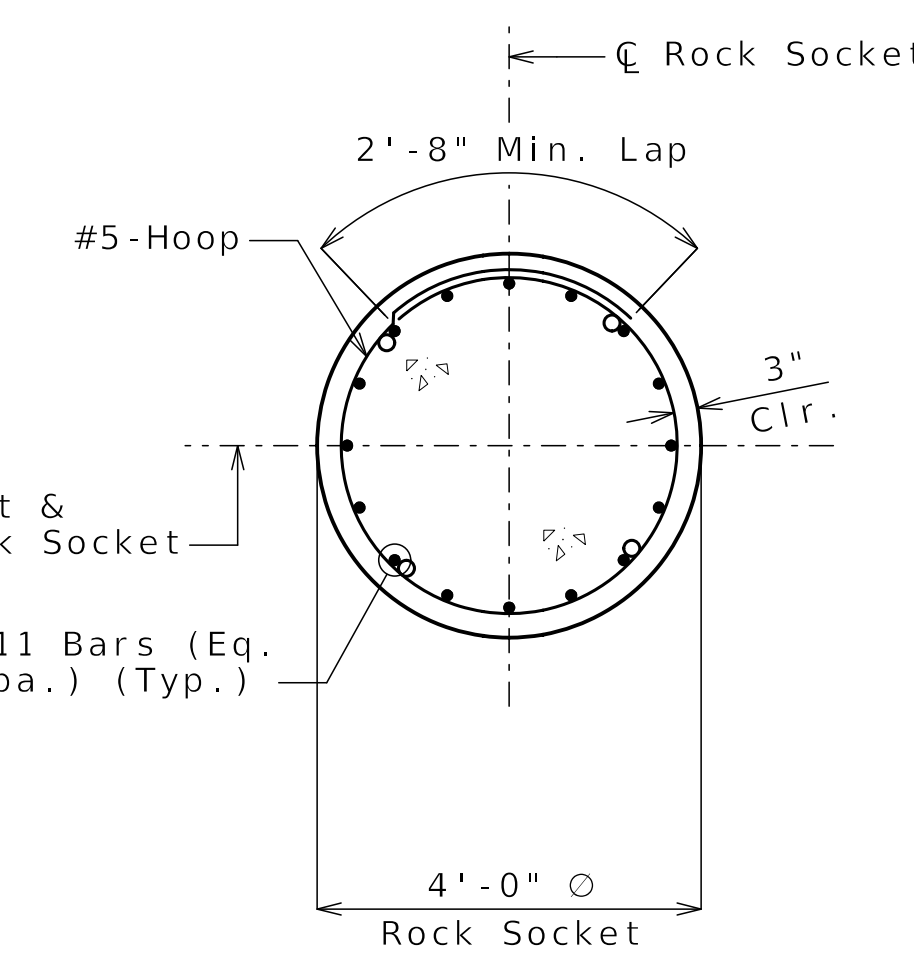
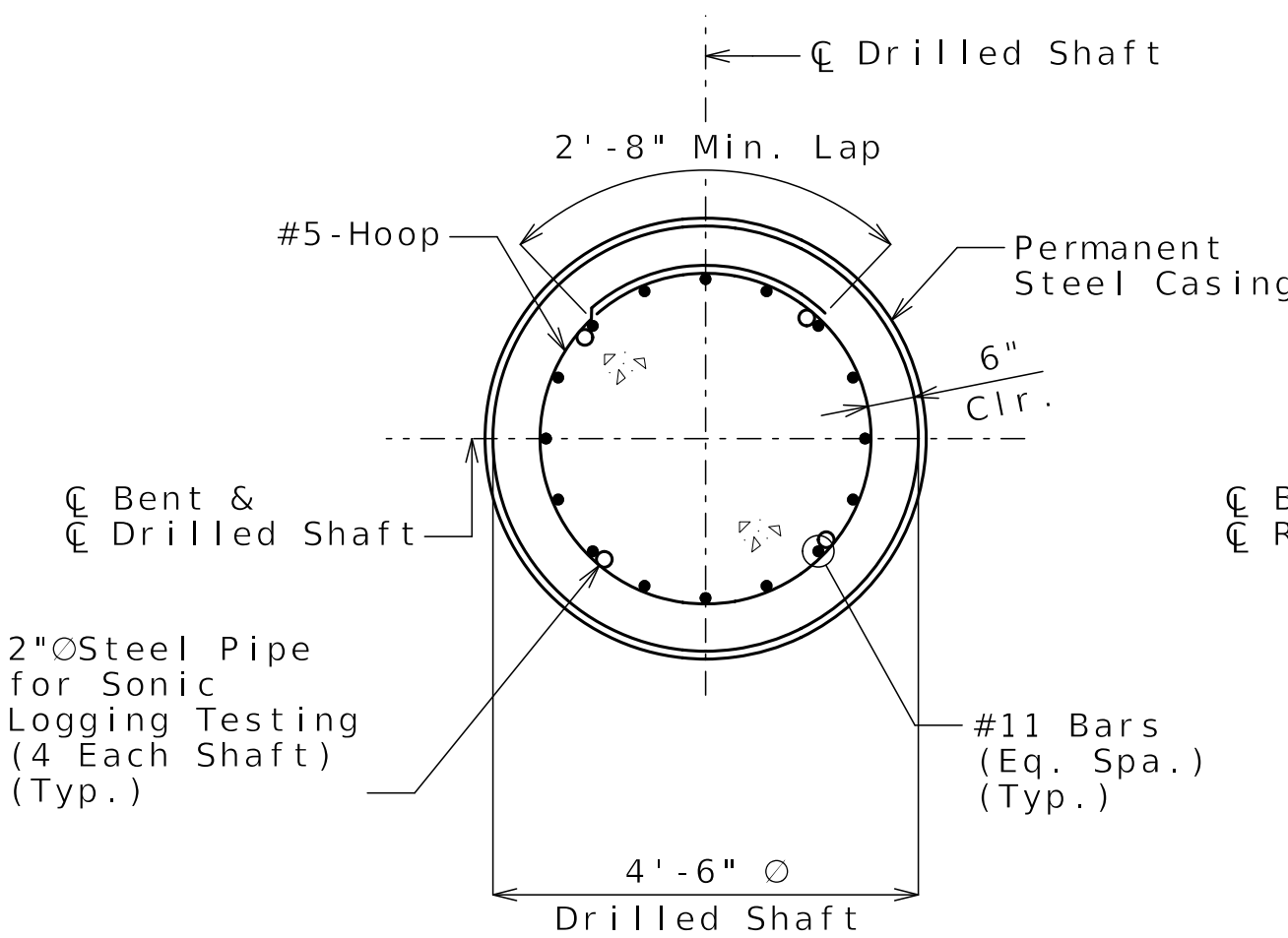
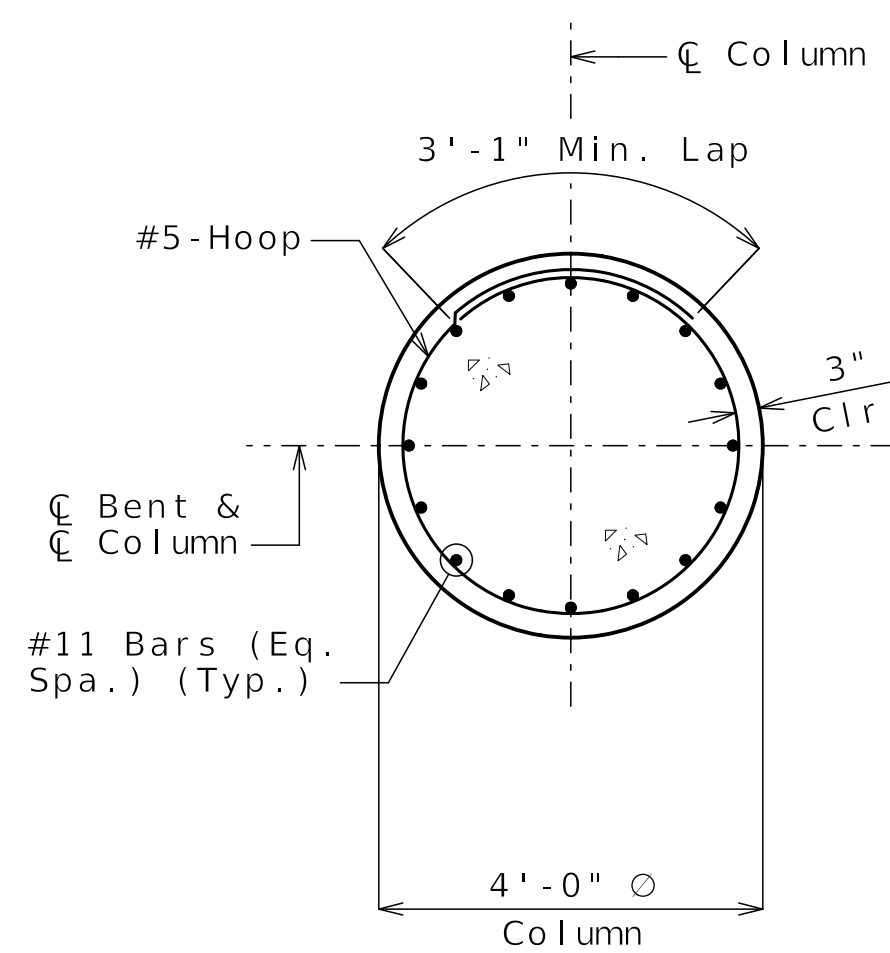
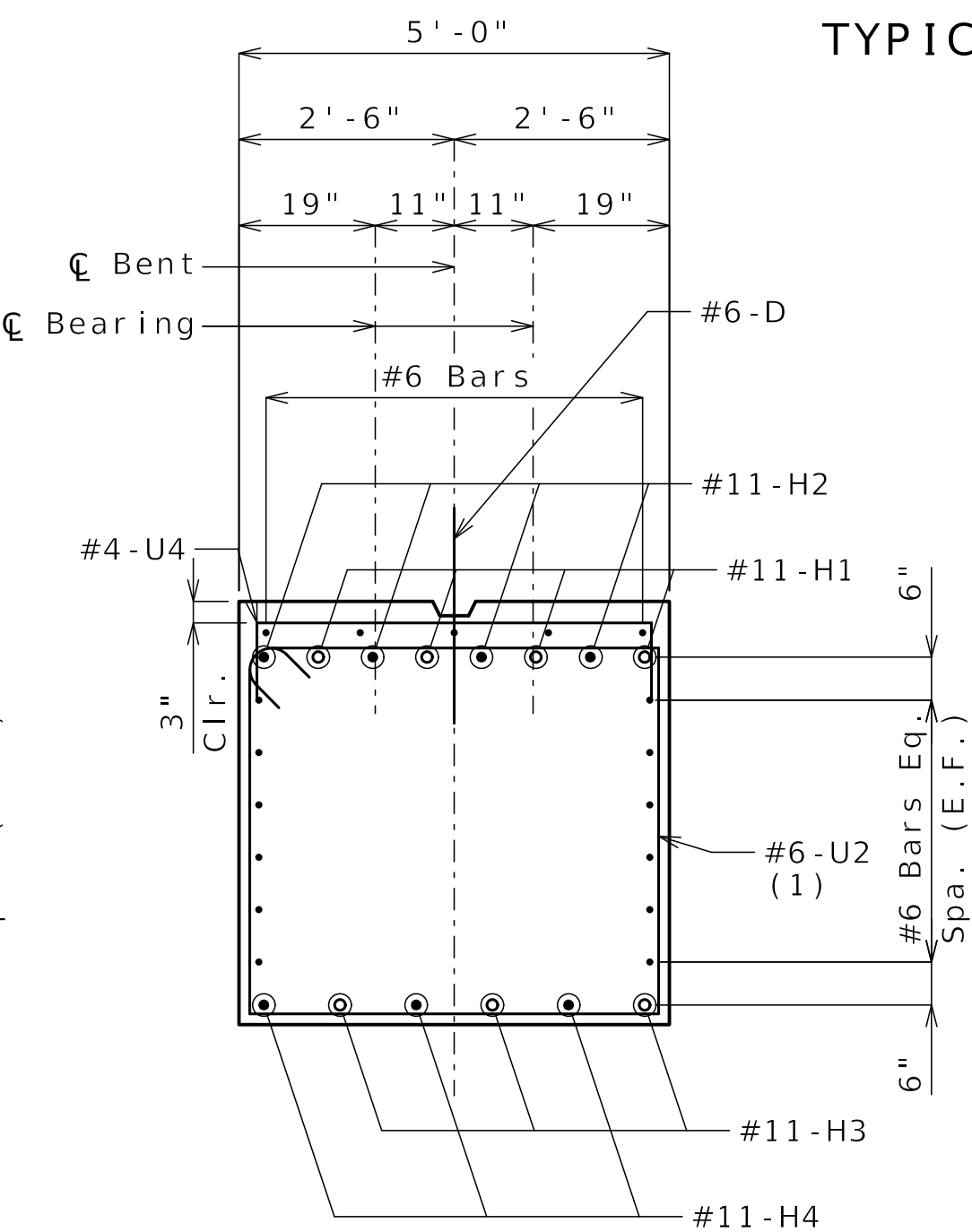
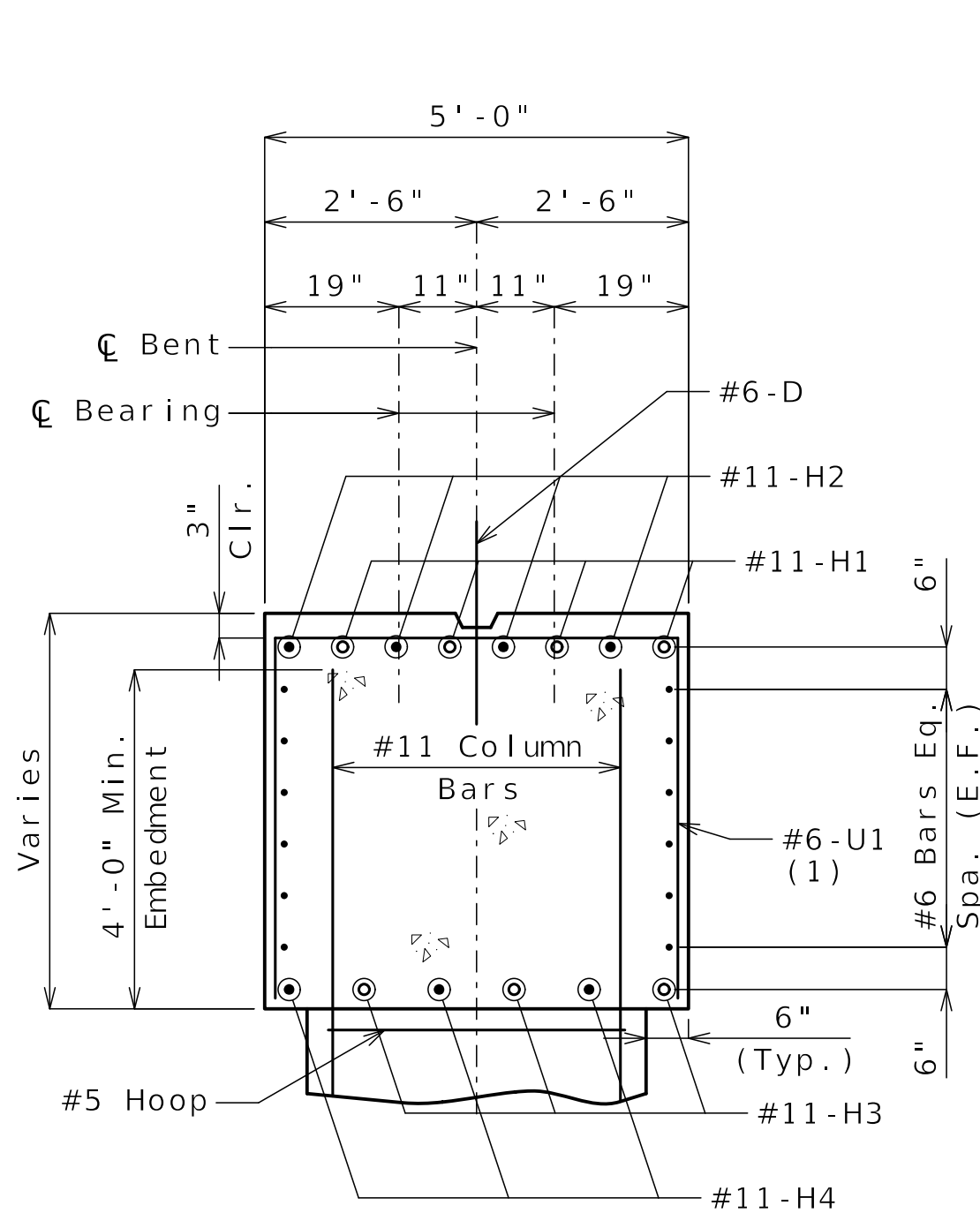
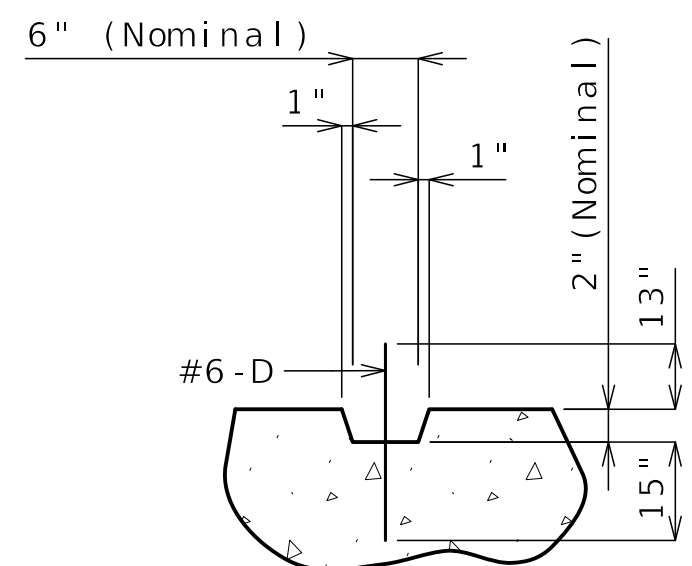
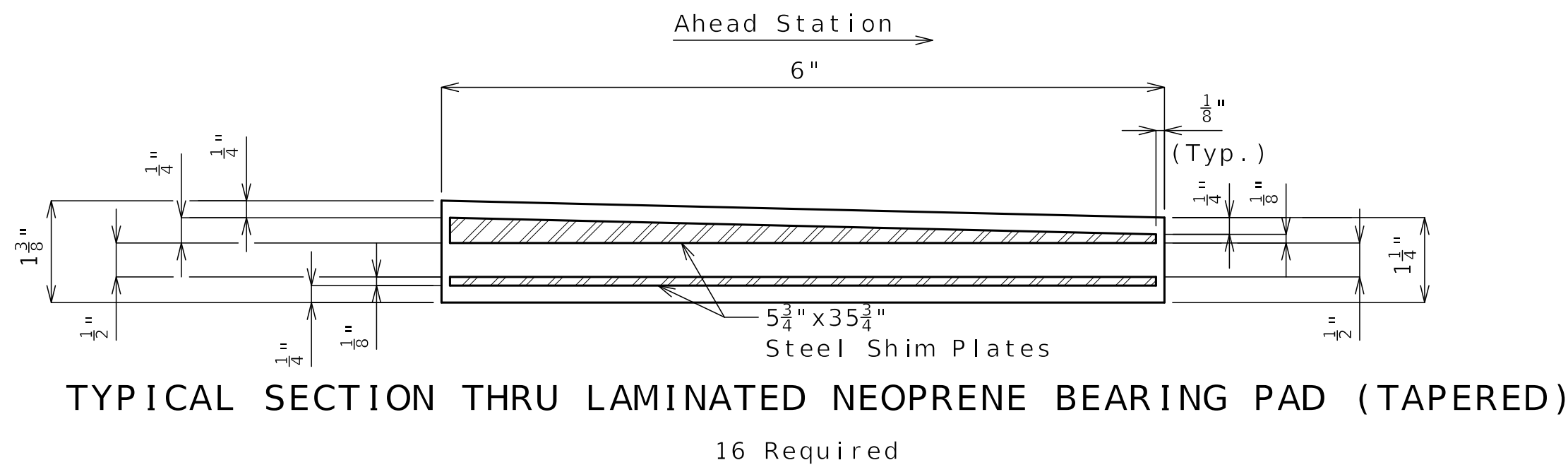
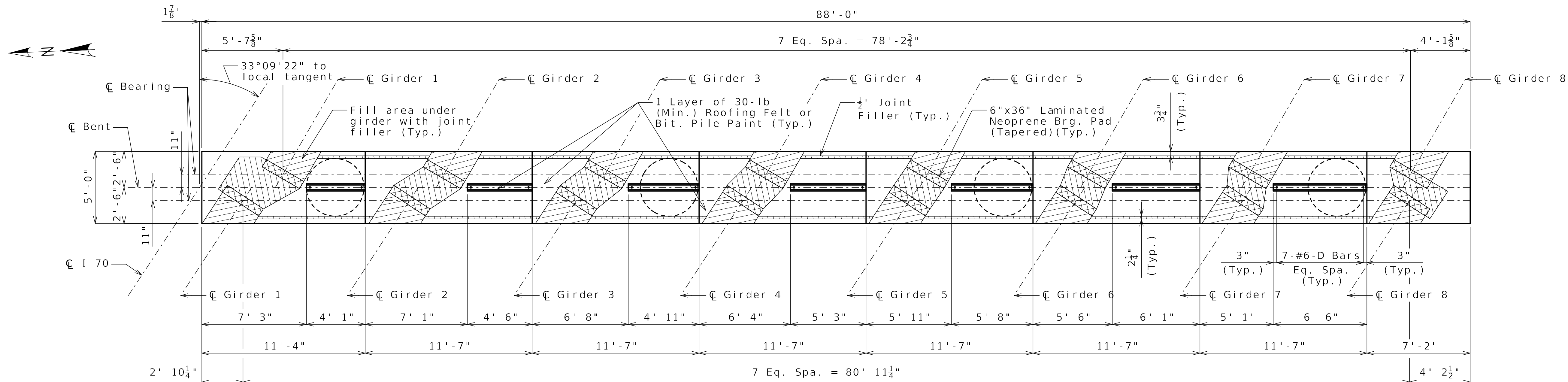
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

CLARKSON RADMACHER
JOINT VENTURE

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

HNTB



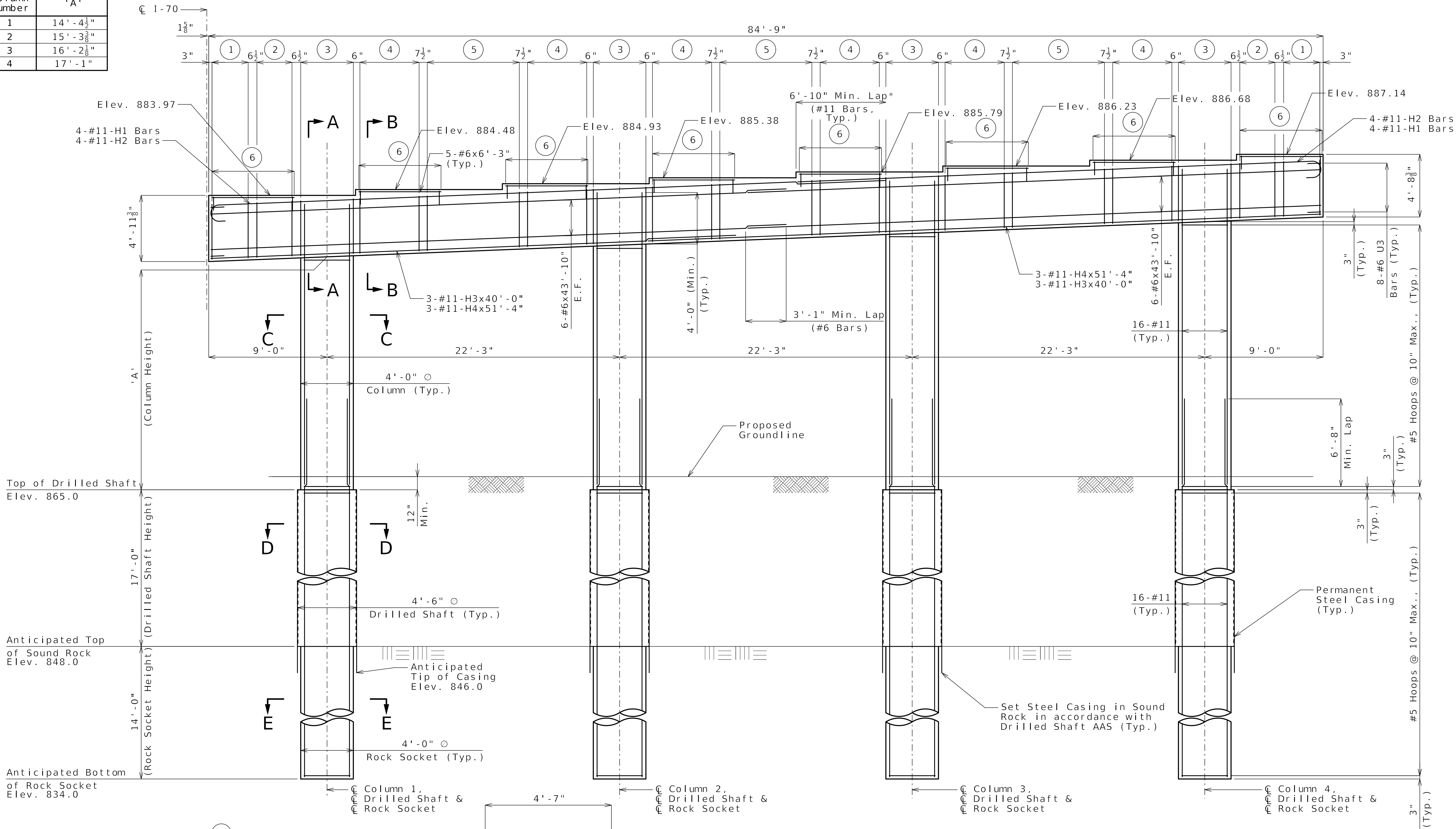
(1) U1 & U2 vertical leg = 4'-2"

Released For Construction
Not to Scale
Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

Notes:
Work this sheet with Sheet No. B04-09.
Hoop splices shall be staggered around the drilled shaft and rock socket at 90 degree intervals.

DETAILS OF INTERMEDIATE BENT NO. 2

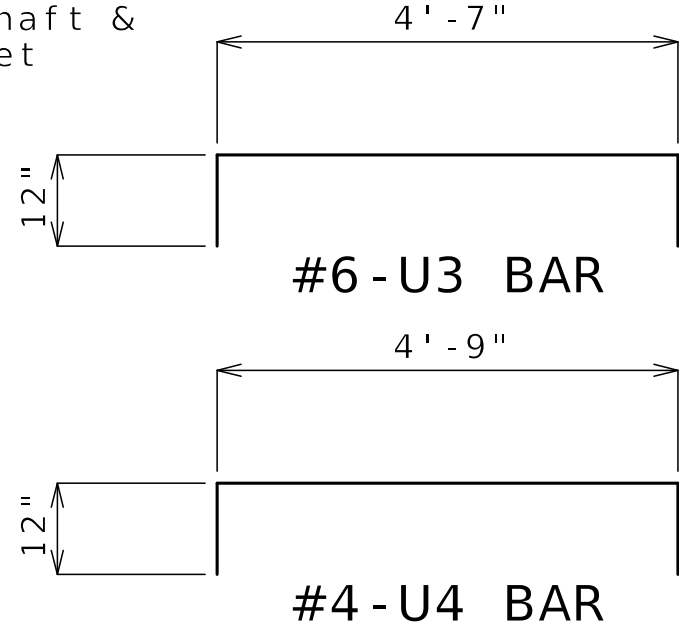
| Table of Variables | |
|--------------------|-----------------------|
| Column Number | 'A' |
| 1 | 14'-4 $\frac{1}{2}$ " |
| 2 | 15'-3 $\frac{3}{8}$ " |
| 3 | 16'-2 $\frac{1}{8}$ " |
| 4 | 17'-1" |



#11-H1 & #11-H2 BAR

48'-8" (H1)
42'-8" (H2)

- 1 4-#6-U2 @ 12" cts.
- 2 5-#6-U2 @ 8" cts.
- 3 5-#6-U1 @ 12" cts.
- 4 10-#6-U2 @ 6" cts.
- 5 8-#6-U2 @ 12" cts.
- 6 13-#4-U4 @ 6" Spa.



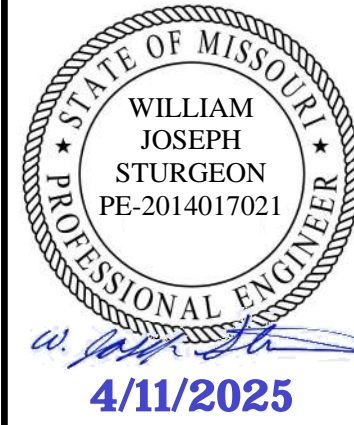
ELEVATION

Released For Construction
Not to Scale

Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

Notes:
* Alternate location of lap splices between adjacent bars about centerline of bent. Alternate lap splice not shown.
Prior to placing concrete for columns, position of vertical reinforcement shall be verified so as to provide clearance for capbeam reinforcement as applicable.
Work this sheet with Sheet No. B04-12.
Use 1/2" joint filler up vertical face of capbeam steps.
For location of drilled shafts, see Sheet No. B04-04.
For Sections A-A thru E-E, see Sheet No. B04-12.

DETAILS OF INTERMEDIATE BENT NO. 3

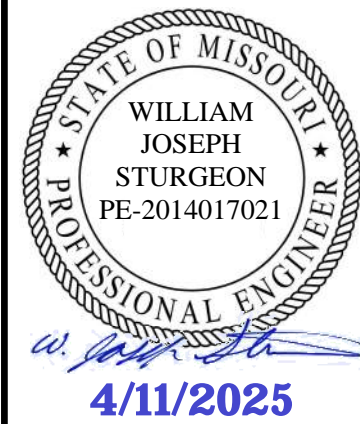


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| DATE PREPARED 04/11/2025 | |
| ROUTE I-70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-11 |
| COUNTY JACKSON | |
| JOB NO. J411486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |

BRIDGE NO.
A9632

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





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|-----------------------------|---------------------|
| DATE PREPARED 04/11/2025 | |
| ROUTE I-70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-12 |
| COUNTY JACKSON | |
| JOB NO. J4I1486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |

BRIDGE NO.
A9632

| DATE | DESCRIPTION |
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| 04/11/25 | REV 0 - RFC SUBMITTAL |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

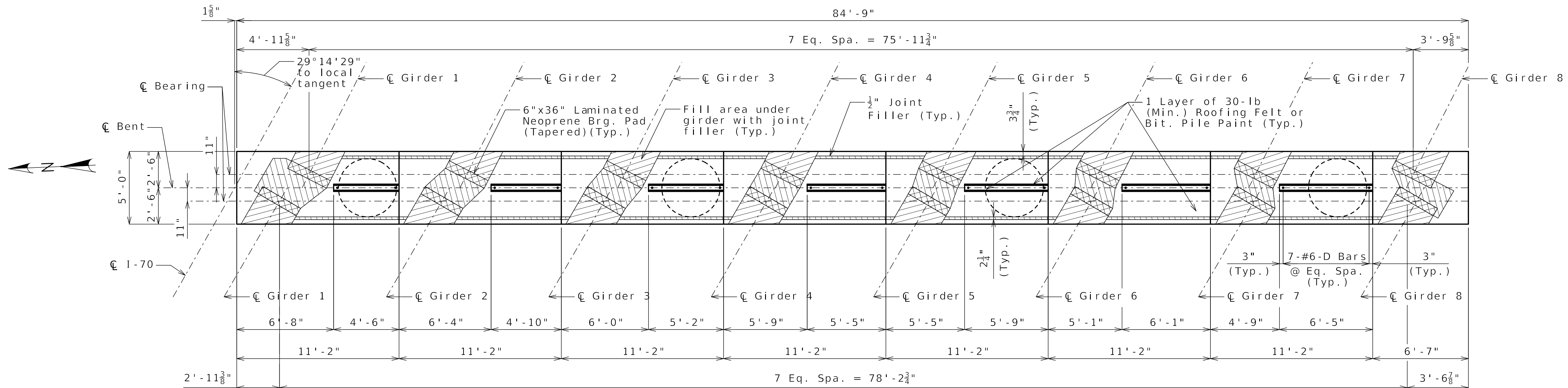
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

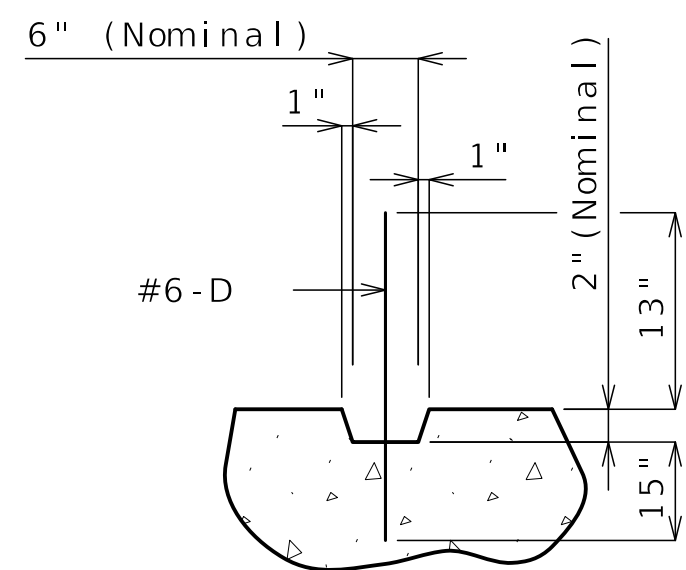
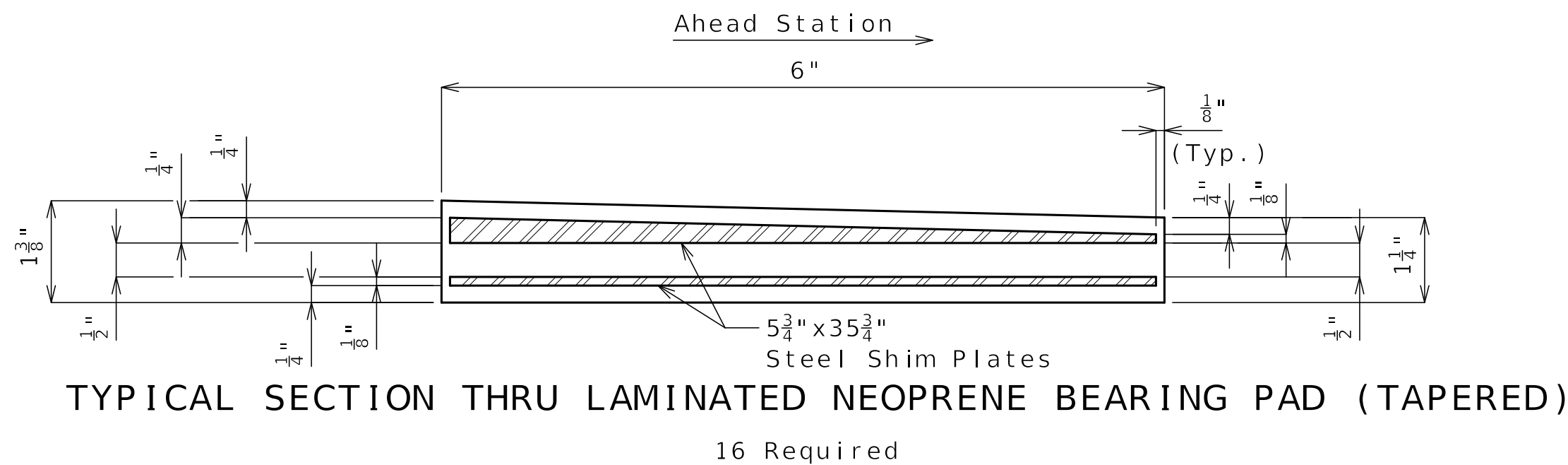
CLARKSON RADMACHER JOINT VENTURE

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

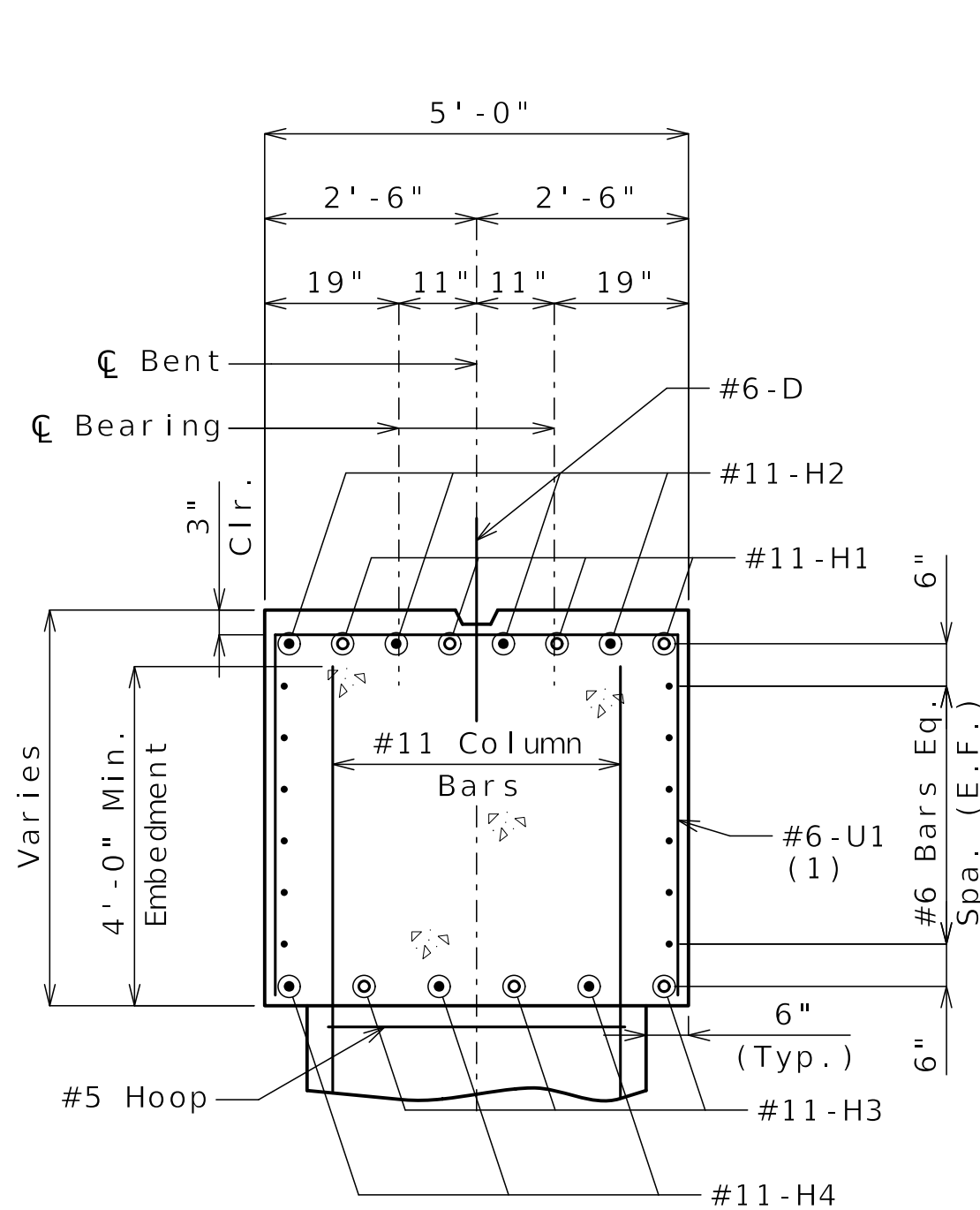
HNTB



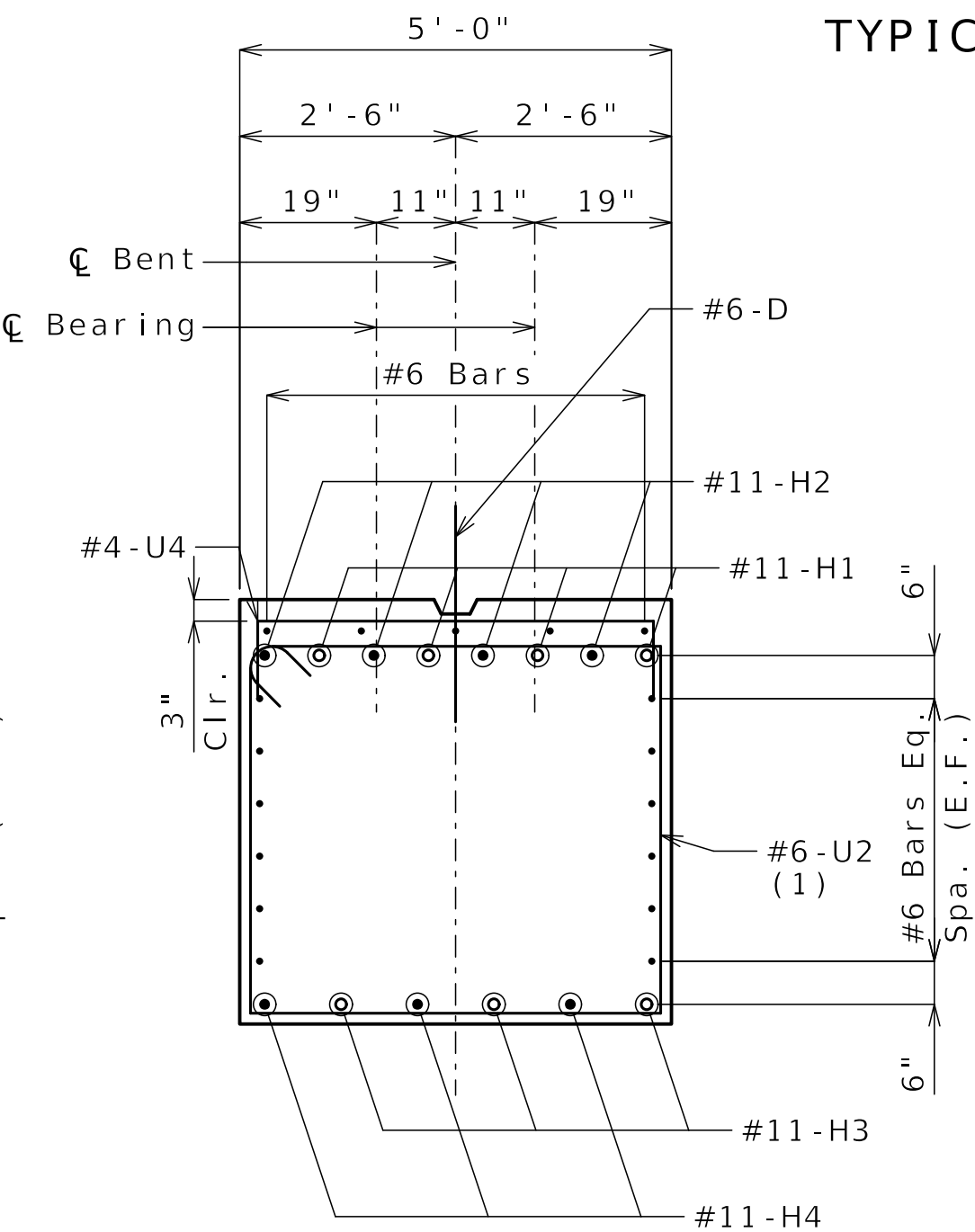
PLAN OF CAPBEAM



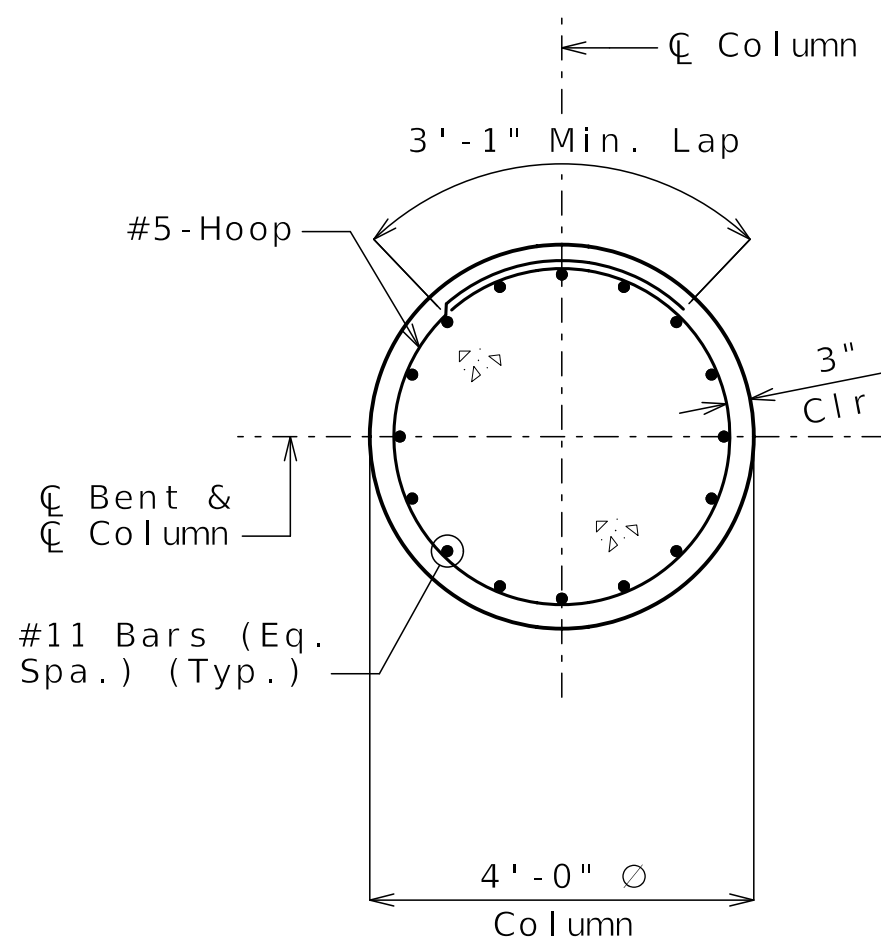
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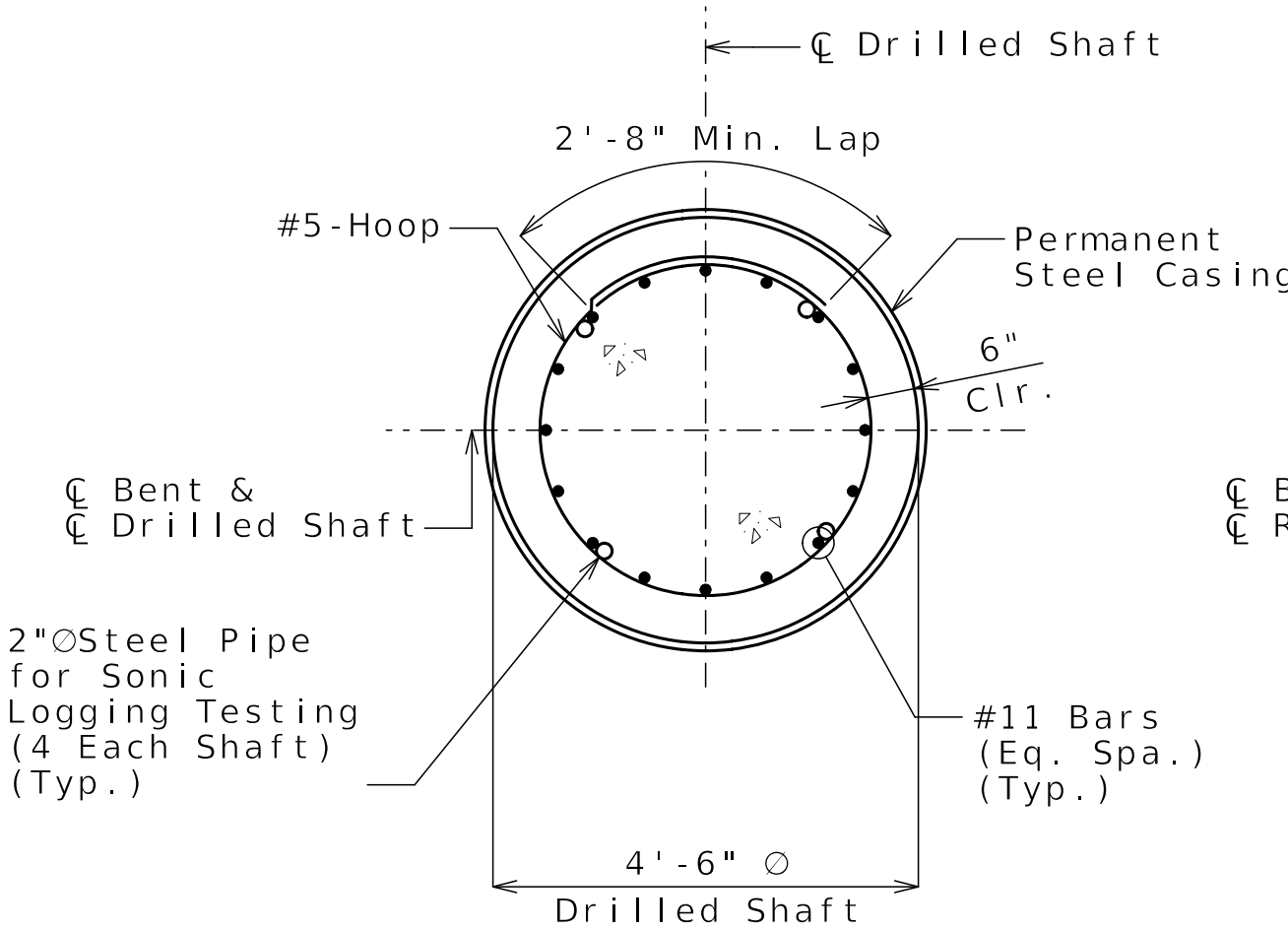
SECTION A-A



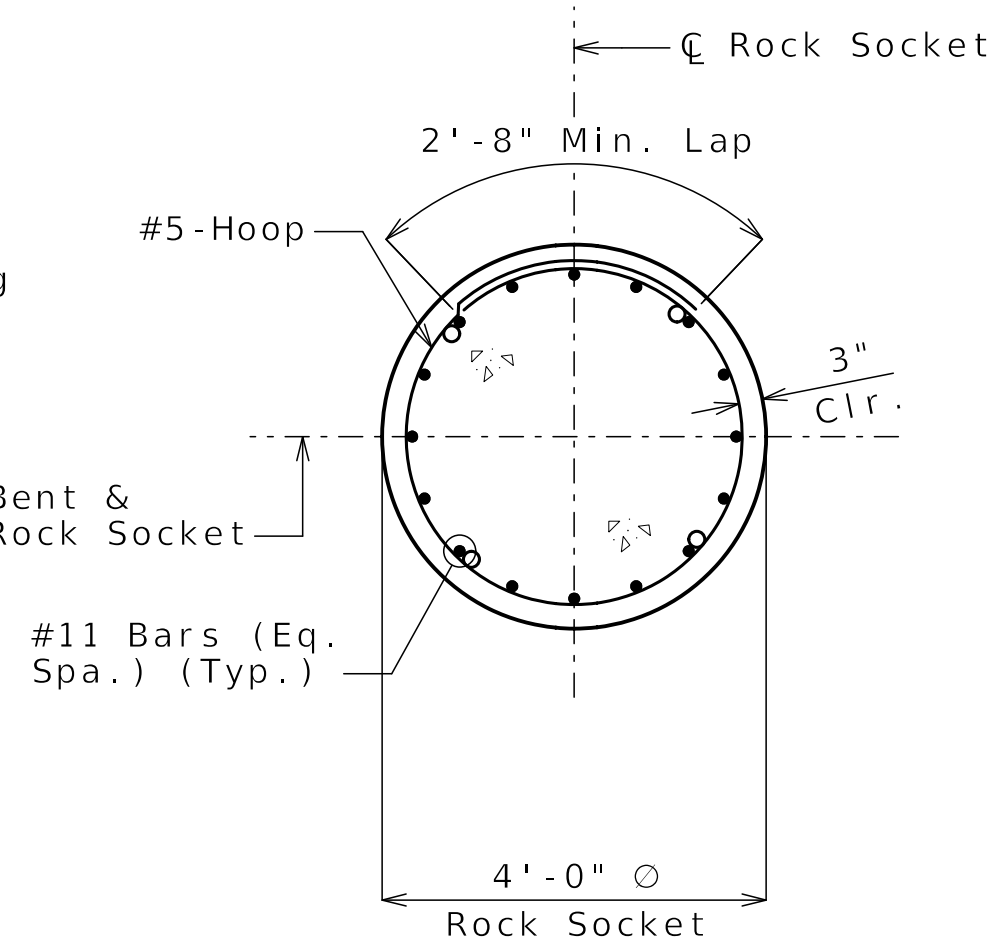
SECTION B-B



SECTION C-C



SECTION D-D



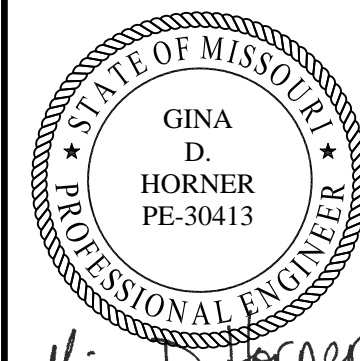
SECTION E-E

(1) U1 & U2 vertical leg = 4'-2"

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Notes:
Work this sheet with Sheet No. B04-11.
Hoop splices shall be staggered around the drilled shaft and rock socket at 90 degree intervals.

DETAILS OF INTERMEDIATE BENT NO. 3



Gina D. Horner
4/11/2025

| | |
|-----------------------------|---------------------|
| DATE PREPARED 04/11/2025 | |
| ROUTE 1-70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-13 |
| COUNTY JACKSON | |
| JOB NO. J411486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |

BRIDGE NO.
A9632

| DATE | DESCRIPTION |
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| 04/11/25 | REV 0 - RFC SUBMITTAL |
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

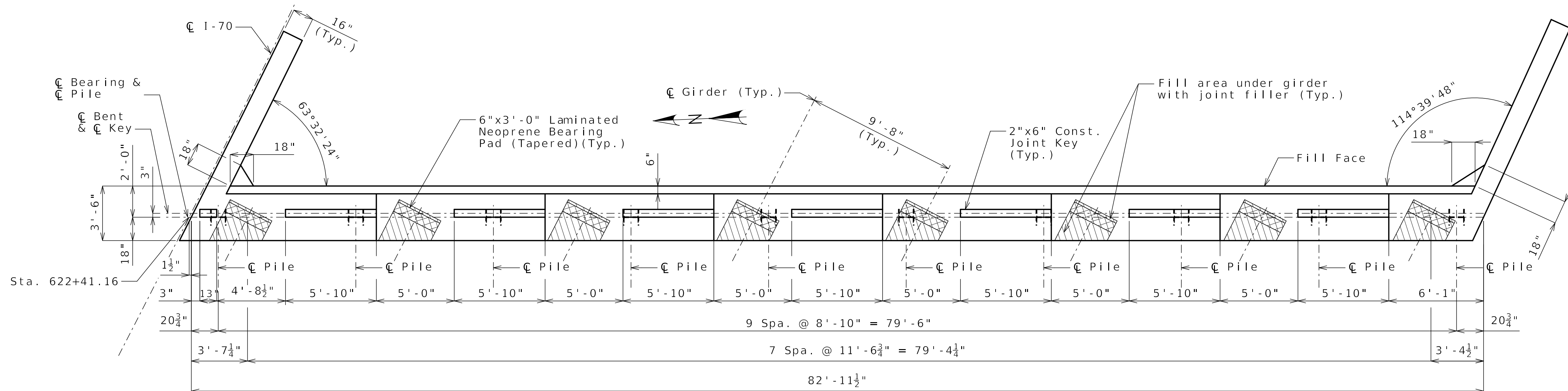
MoDOT

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

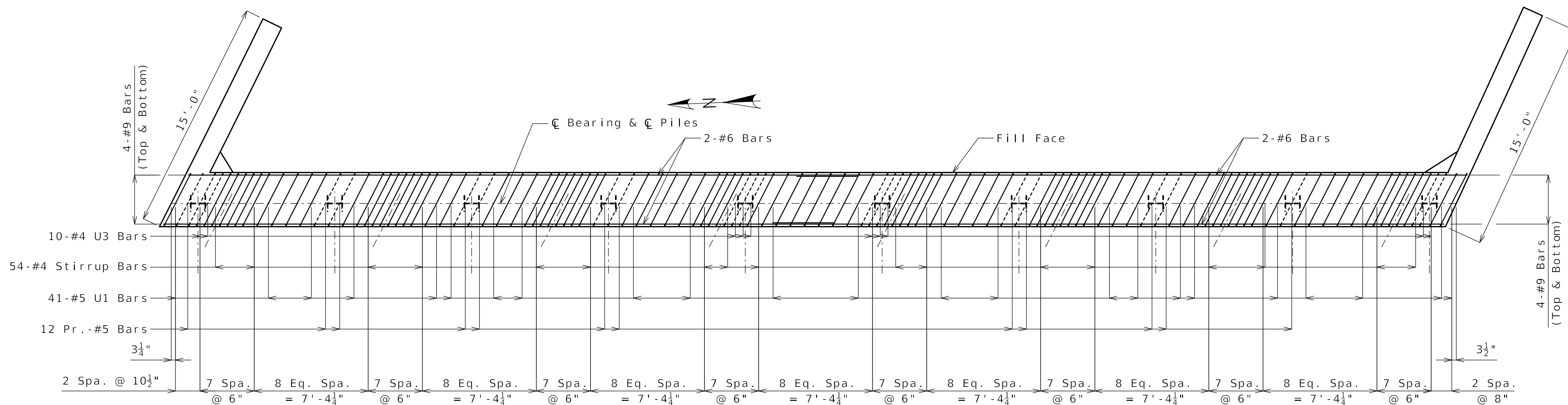
CLARKSON RADMACHER
JOINT VENTURE

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

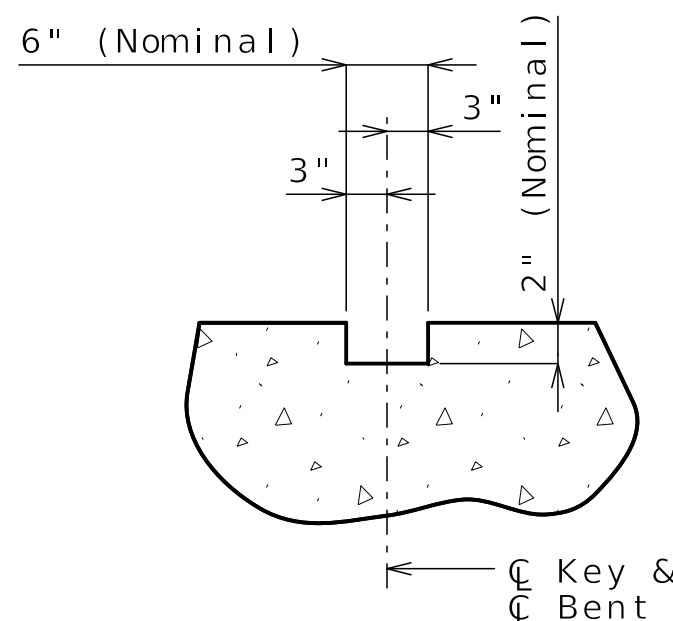
HNTB



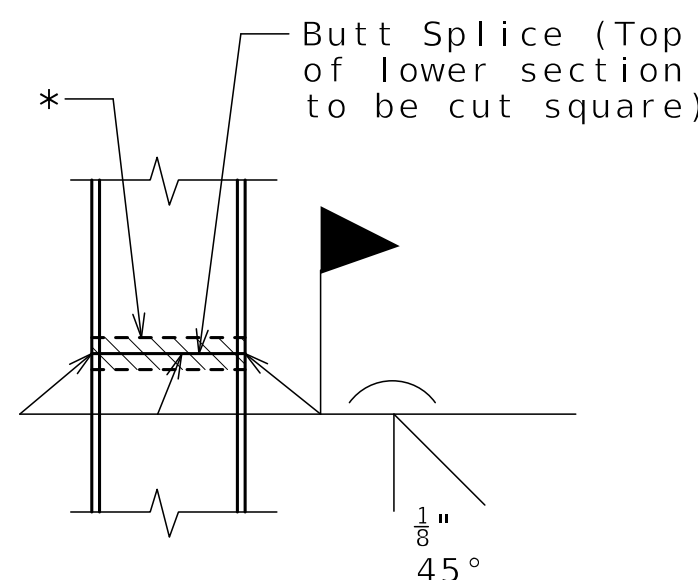
PLAN OF BEAM



PLAN OF BEAM SHOWING REINFORCING
(Key and steps not shown for clarity.)

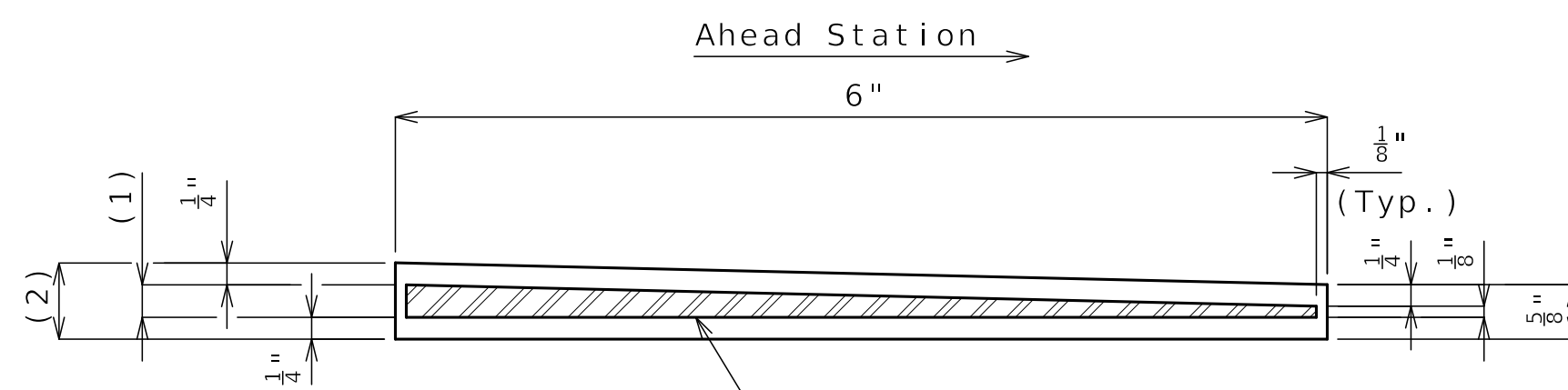


SECTION THRU KEY



STEEL PILE SPLICE
(If required)

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



TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD (TAPERED)

8 Required

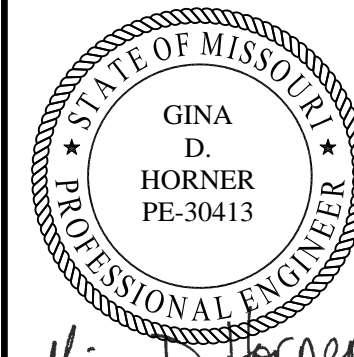
- (1) 1/4" for Girders 1 thru 5
3/8" for Girders 6 thru 8
- (2) 3/4" for Girders 1 thru 5
7/8" for Girders 6 thru 8

Notes:

Work this sheet with Sheets No. B04-14 and B04-15.
All U bars and pairs of vertical bars shall be placed parallel to centerline of girders.
Reinforcing steel shall be shifted to clear piles. U-bars shall clear piles by at least 1 1/2".
All concrete above the construction joint shall be Class B-2.
For details of bridge approach slab, see Sheet No. B04-33.
For location of coil tie rods, see Sheet No. B04-19.

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Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

DETAILS OF END BENT NO. 4



DATE PREPARED
04/11/2025

ROUTE
1-70

STATE
MO

DISTRICT
BR

SHEET NO.
B04-14

COUNTY
JACKSON

JOB NO.
J411486D

CONTRACT ID.
240807-C01

PROJECT NO.

BRIDGE NO.
A9632

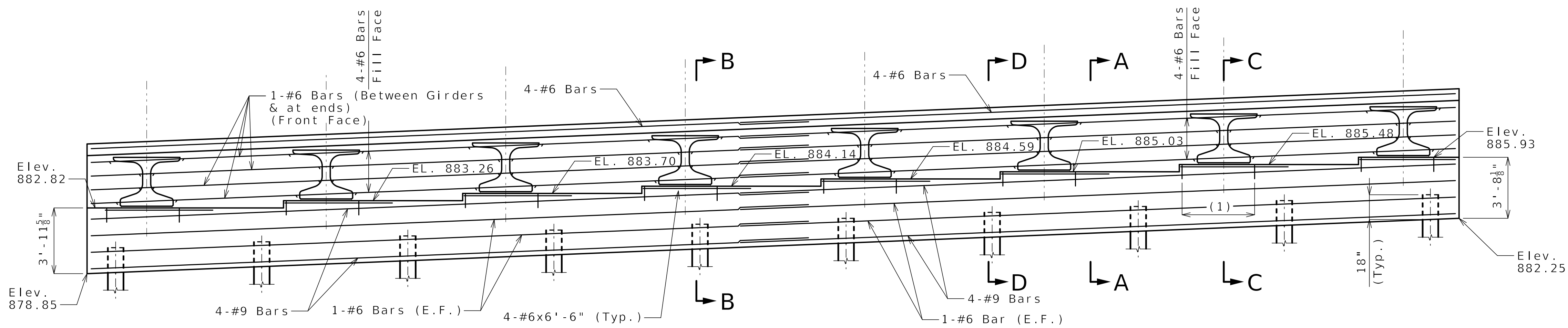
| DATE | DESCRIPTION |
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| 04/11/25 | REV 0 - RFC SUBMITTAL |
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



CLARKSON
RADMACHER
JOINT VENTURE

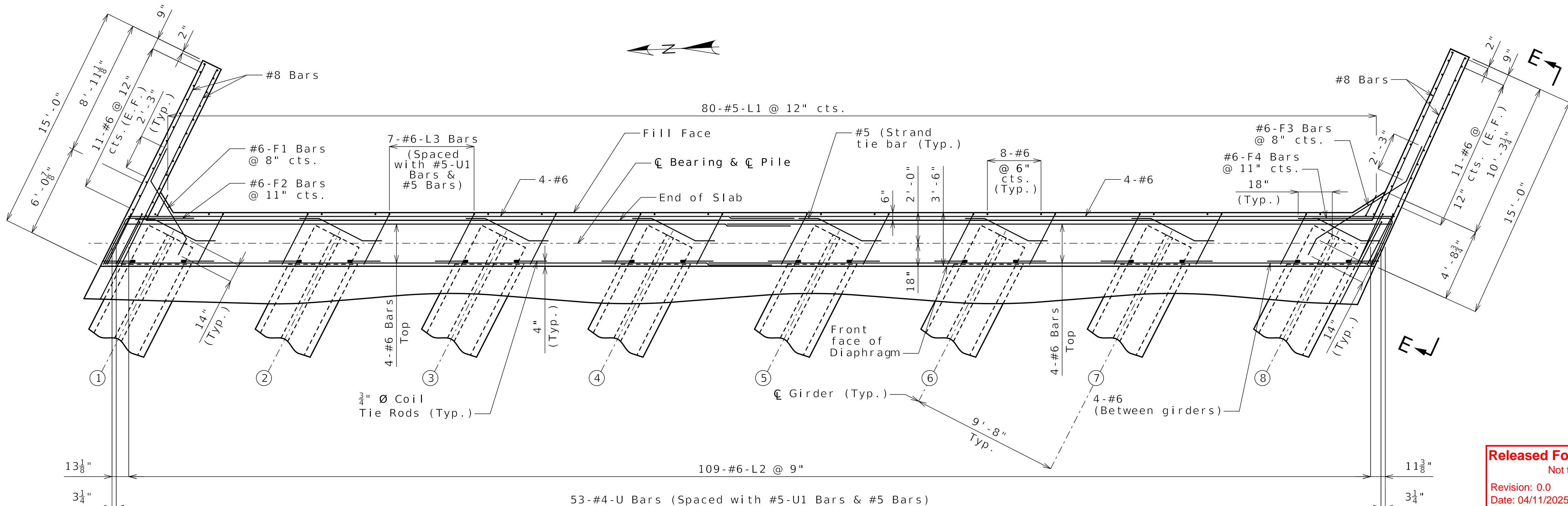
715 KIRK DRIVE
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NO. 001270



SECTION NEAR END BENT

Notes:
Lap Splice for #6 bars = 4'-3" (Min.)
Lap Splice for #9 bars = 6'-5" (Min.)

(1) 12-#4-U4 Bars @ 6"
Spa. undergirders
(Typ.)



PART PLAN

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Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

General Notes:
Work this sheet with Sheets No. B04-13 and B04-15.
For location of Sections A-A, B-B, C-C and D-D
and Elevation E-E, see Sheet No. B04-15.
Strands at end of girders shall be field bent or, if
necessary, cut in field to maintain 1 1/2-inch minimum
clearance to fill face of end bent.
The #6-F bars shall be bent in the field to clear
girders.

(X) Denotes girder number

DETAILS OF END BENT NO. 4

04/11/2025

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

| | |
|--------|--------|
| BR | B04-15 |
| COUNTY | |

| |
|---------|
| JACKSON |
| LOB NO |

CONTRACT ID.

| |
|-------------|
| PROJECT NO. |
|-------------|

BRIDGE NO.

| | | | | | | | |
|--|--|--|--|--|--|--|--|
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| DATE | DESCRIPTION |
|----------|-----------------------|
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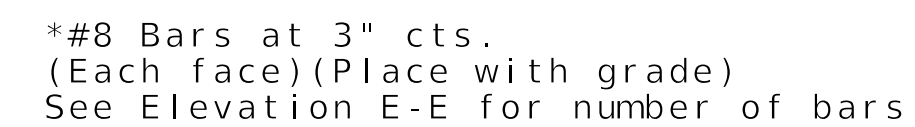
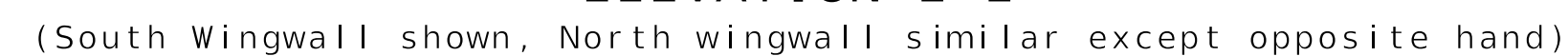
MISSOURI HIGHWAYS AND TRANSPORTATION
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MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1 888 ASK MoDOT / 1 888 725 6626

CLARKSON
RADMACHER
JOINT VENTURE

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 0013270



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Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

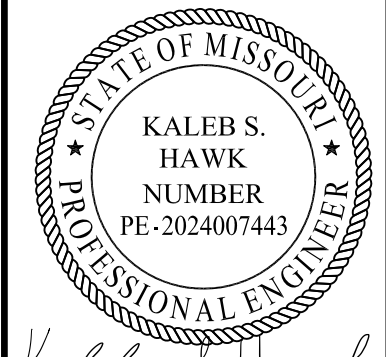
General Notes:

Work this sheet with Sheets No. B04-13 and B04-14.

For location of Sections A-A, B-B, C-C, D-D and Elevation E-E, see Sheet No. B04-14.

For reinforcement of the Type D Barrier, see Sheet No. B04-29.

DETAILS OF END BENT NO. 4



| | |
|-----------------------------|---------------------|
| DATE PREPARED 04/11/2025 | |
| ROUTE 1-70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-16 |
| COUNTY JACKSON | |
| JOB NO. J411486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |

BRIDGE NO.
A9632

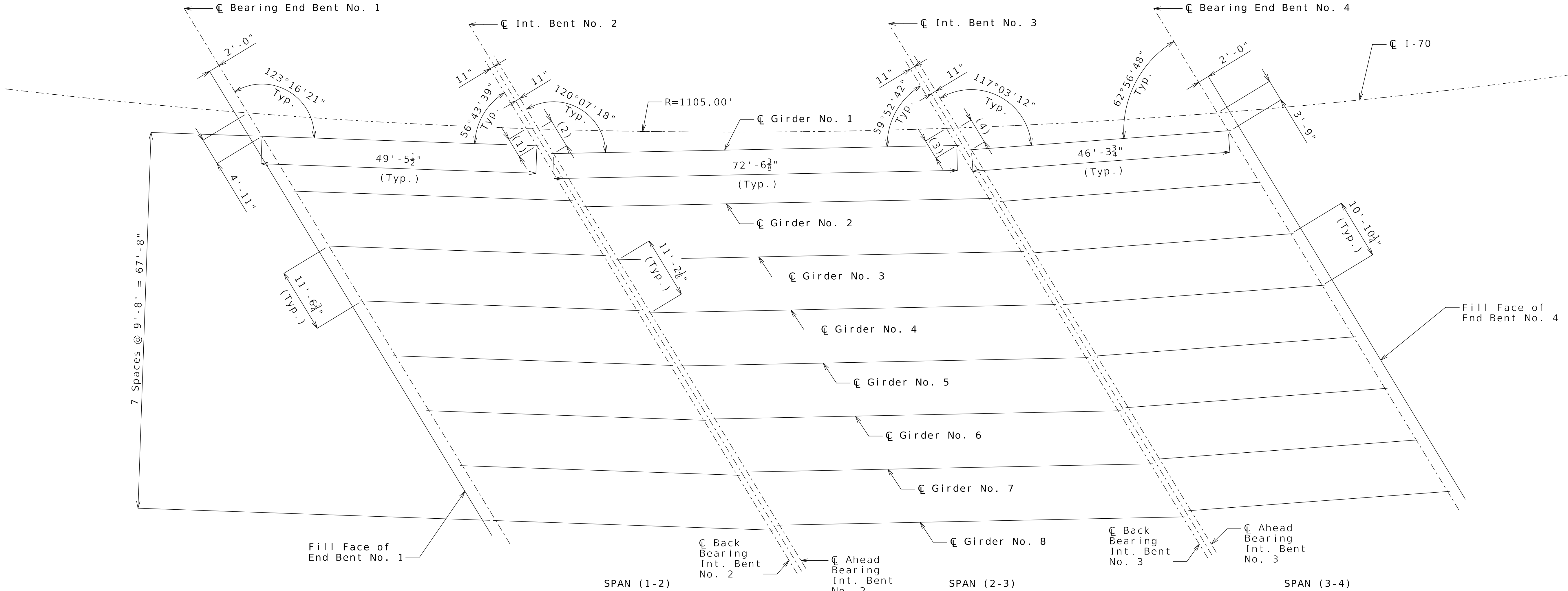
| DESCRIPTION | DATE |
|-----------------------|----------|
| REV 0 - RFC SUBMITTAL | 04/11/25 |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE
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CERTIFICATE OF AUTHORITY
NO. 001270



- (1) 3'-7 3/8"
- (2) 5'-2 1/4"
- (3) 3'-7 1/8"
- (4) 4'-7 1/8"

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Package: BRD-04-EB-70-Jackson

Notes:
All dimensions are horizontal.
Girders within a span are parallel.
All bents are parallel.

FRAMING PLAN

[illegible]

The image shows two elevation drawings of window frames, WWR5 and WWR6.

WWR5: A horizontal window frame with a total width of 3' - 10 1/4". It features five vertical dividers. The spacing between the dividers is 6" on the left, 6" between the first and second dividers, 20" between the second and third dividers, 6" between the third and fourth dividers, and 6" on the right. The frame is labeled "D20 @ 6\" (Typ.)".

WWR6: A vertical window frame with a total height of 81 1/2". It features two horizontal dividers. The spacing between the dividers is 23 3/4" on the left, 2" between the first and second dividers, and 23 3/4" on the right. The frame is labeled "D31 @ 2\". The top and bottom horizontal dividers are labeled "W12". A diagonal dimension of 24 1/2" is shown for the top right corner.

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CLAF



ND BENT INTERMEDIATE BENT
STRANDS AT GIRDER ENDS



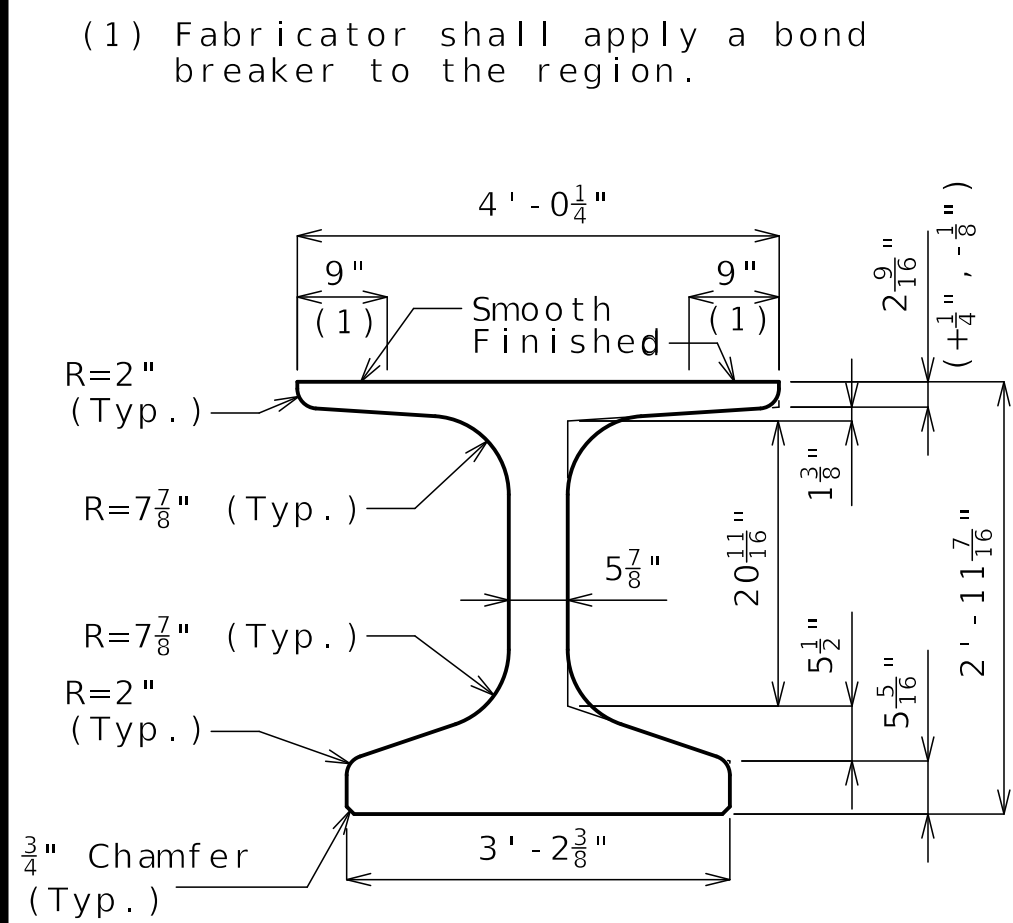
SECTION B-B

CLOSED DIAPHRAGMS AND INTEGRAL BENTS

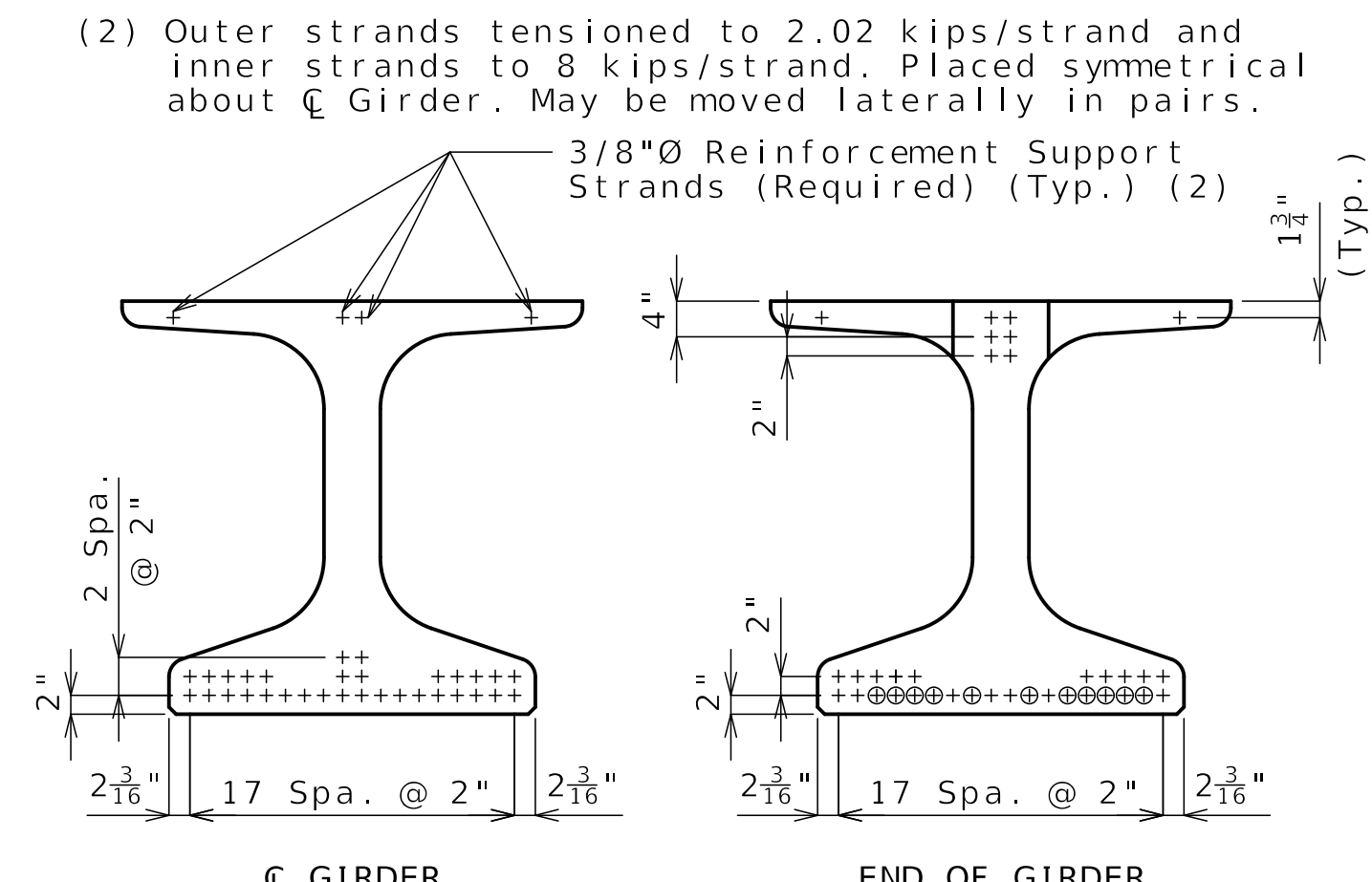
COIL TIES

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

B A9632 B04-19 J4I1486D.dgn 1:10:36 PM 4/10/2025

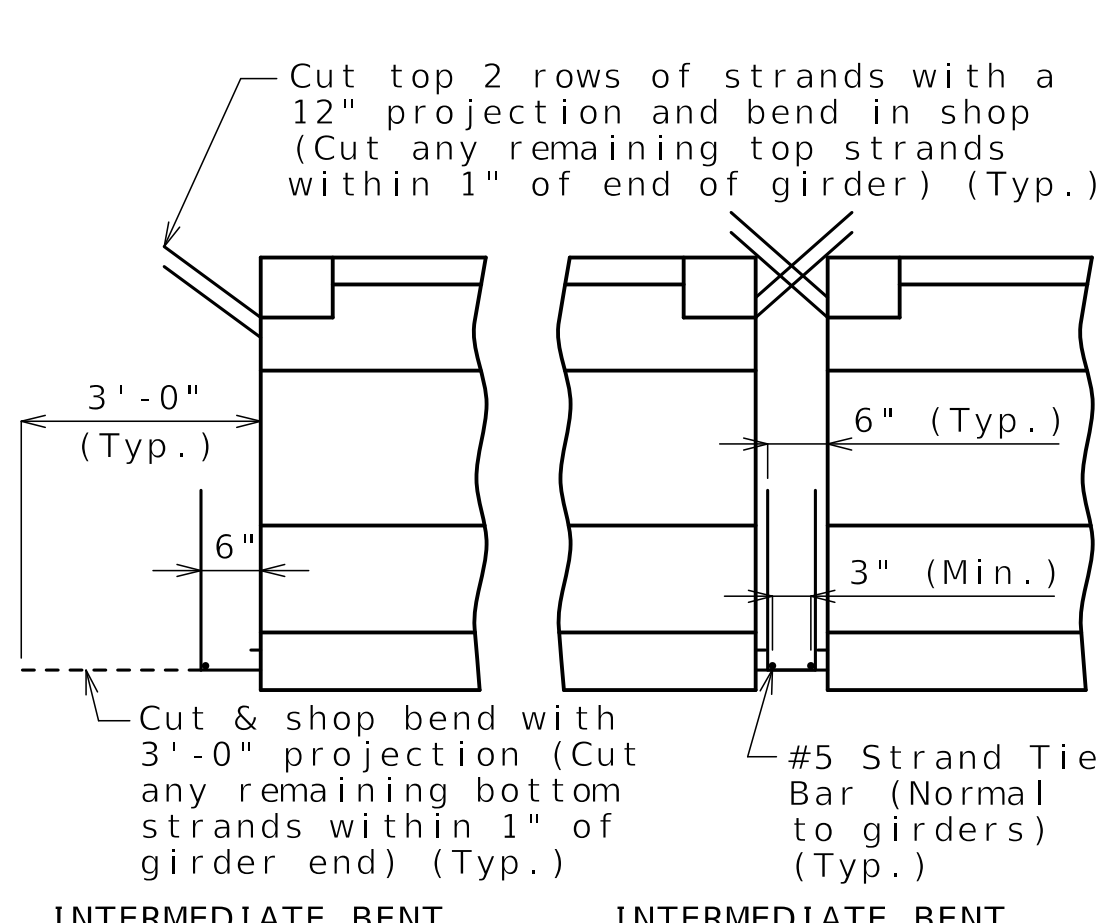


DIMENSIONS



\bar{C} GIRDER
STRAND ARRANGEMENT

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



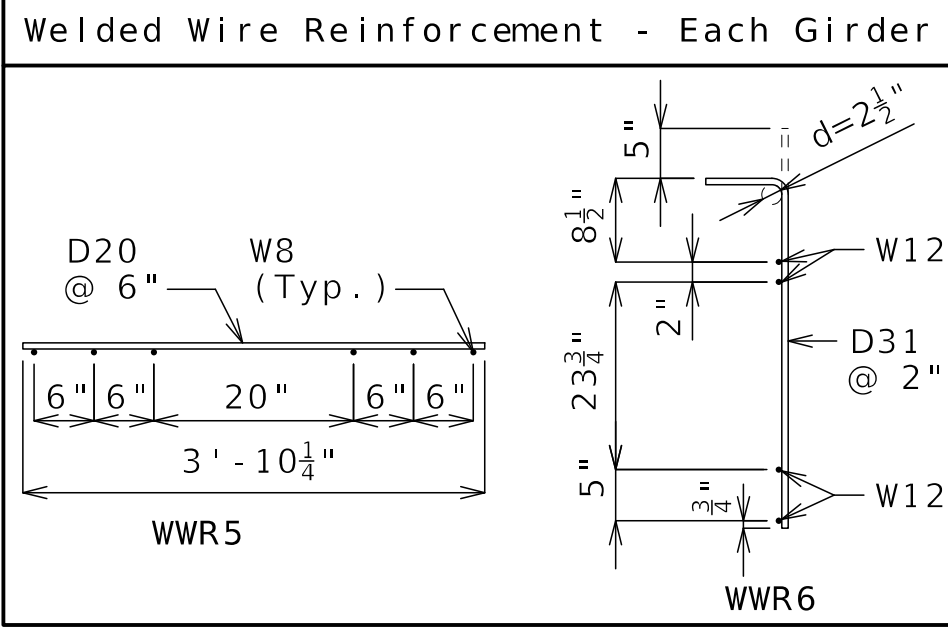
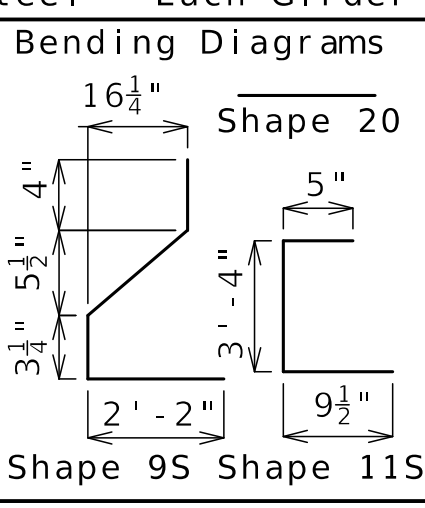
INTERMEDIATE BENT
STRANDS AT GIRDER ENDS

Cut top 2 rows of strands with a 12" projection and bend in shop (Cut any remaining top strands within 1" of end of girder) (Typ.)

Cut & shop bend with 3'-0" projection (Cut any remaining bottom strands within 1" of girder end) (Typ.)

#5 Strand Tie Bar (Normal to girders) (Typ.)

| Bill of Reinforcing Steel - Each Girder | | | |
|---|-----------|--------|-------|
| No. | Size/Mark | Length | Shape |
| 112 | 5 B1 | 4'-4" | 11S |
| 80 | 6 B2 | 4'-3" | 11S |
| 208 | 4 D1 | 4'-0" | 9S |



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.

All bar reinforcement shall be Grade 60

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

All B1 bars shall be epoxy coated.

G4 and G5 not required for interior girders. G3 and G6 not required for exterior girders of intermediate spans. Half no. of G3, G4, G5 and G6 not required for ext. girders of end spans.

General Notes:
Concrete for prestressed girders shall be Class A-1 with $f'c = 10000$ psi and $f'ci = 7500$ psi.

Use 32 strands, 0.6"Ø Grade 270, with an initial prestress force of 1407 kips.

Pretensioned members shall be in accordance with Sec 1029.

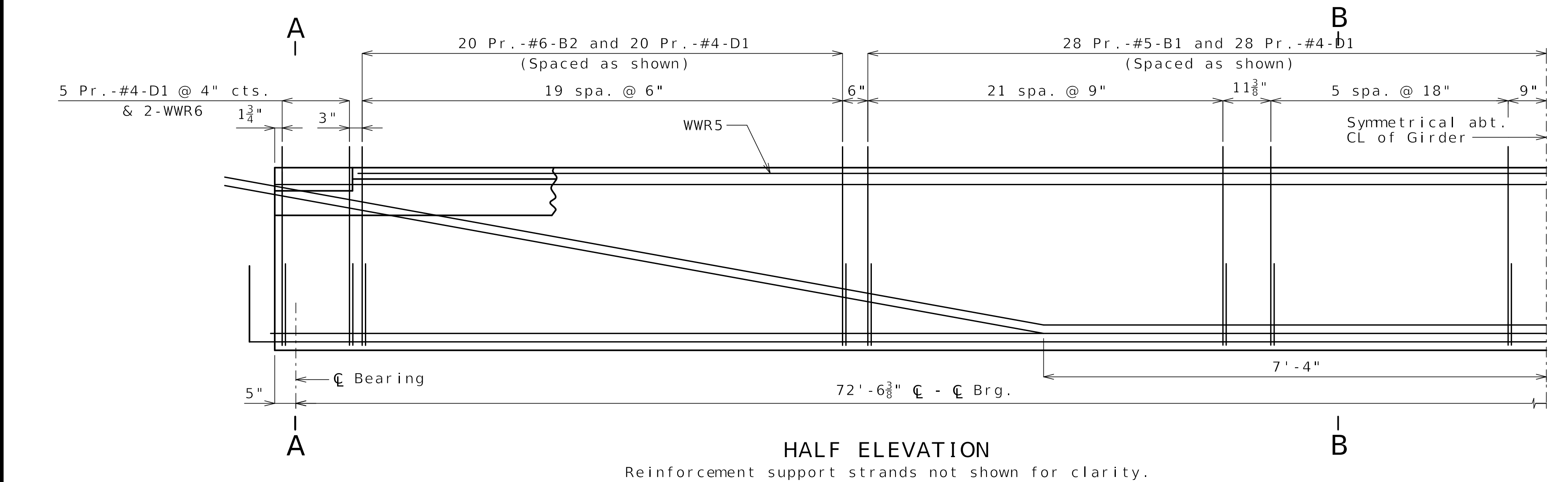
Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior girders are the same except: coil ties, top flange blackout, application of bond breaker.

For Girder Camber Diagram, see Sheet No. B04-22.

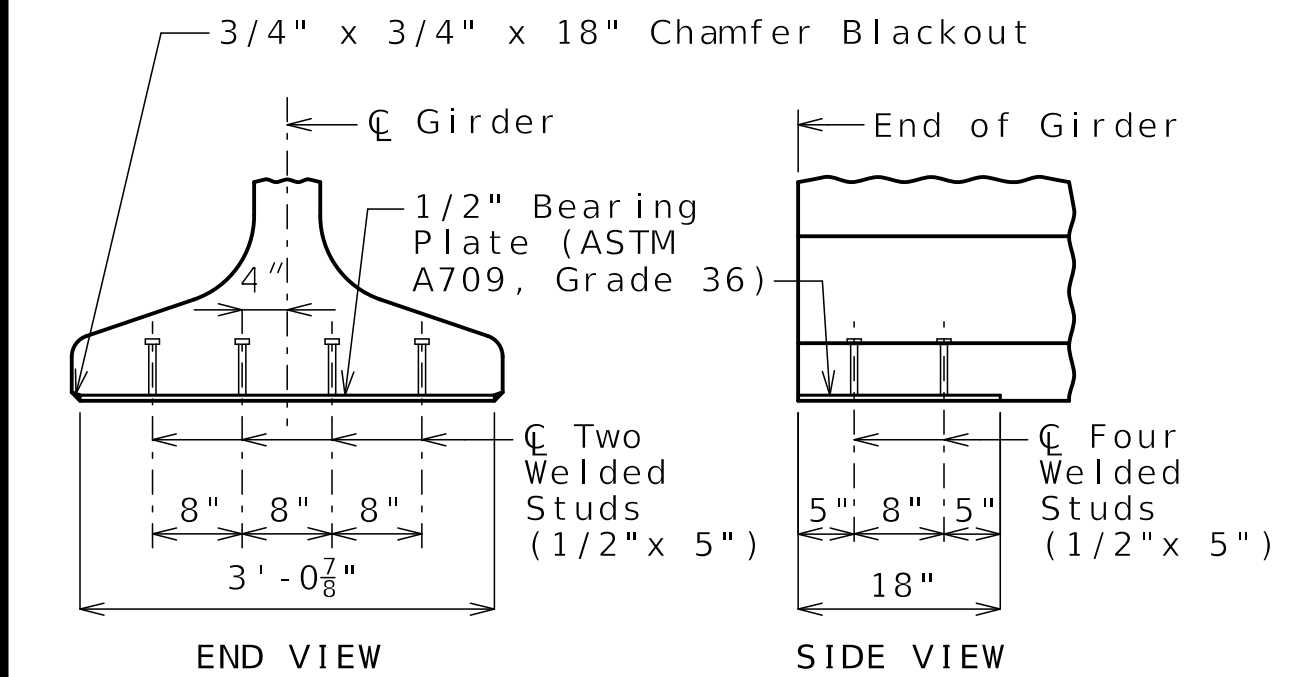
For location of coil ties at concrete diaphragms and integral bents, see Sheet No. B04-21.

For additional NU Girder Details, see Sheet No. B04-20.

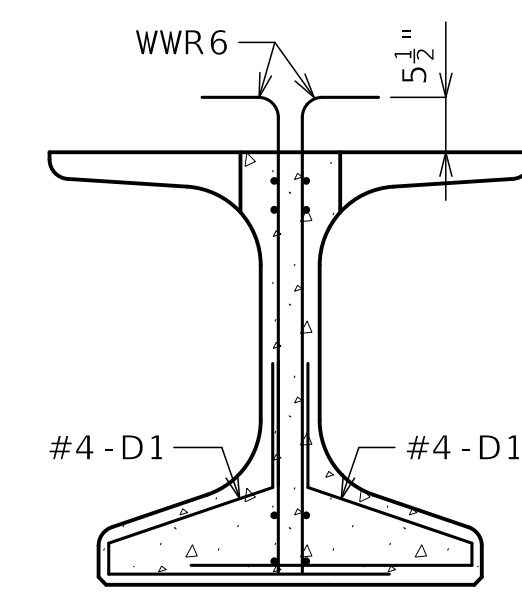


HALF ELEVATION

Reinforcement support strands not shown for clarity.

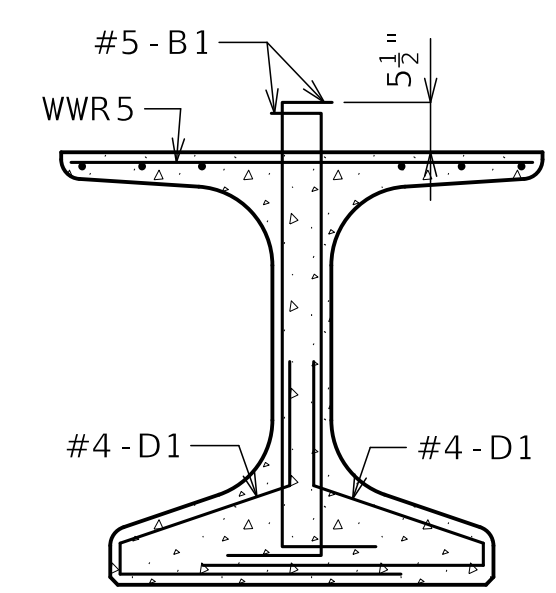


BEARING PLATE



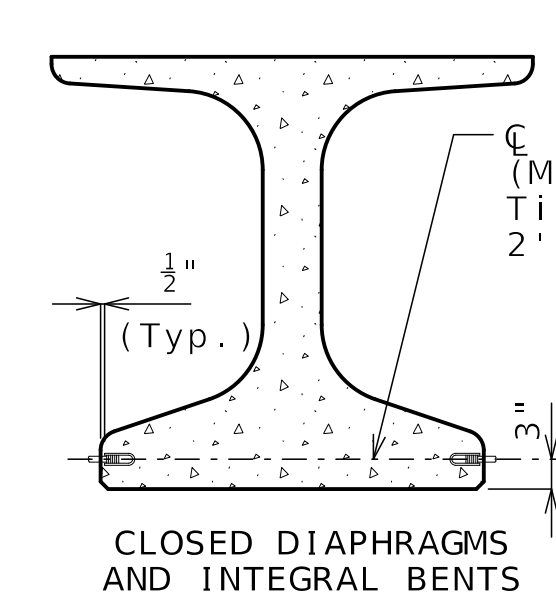
SECTION A-A

Strands not shown for clarity.



SECTION B-B

Strands not shown for clarity.



COIL TIES

Exclude coil tie at exterior face of exterior girders.

NU-GIRDERS - SPAN (2-3)

[illegible]

The image shows two elevation drawings of window frames, WWR5 and WWR6.

WWR5: A horizontal window frame with a total width of 3' - 10 1/4". It features five vertical dividers. The spacing between the dividers is 6" on the left, 6" between the first and second dividers, 20" between the second and third dividers, 6" between the third and fourth dividers, and 6" on the right. The frame is labeled "W8 (Typ.)" and "D20 @ 6\"".

WWR6: A vertical window frame with a total height of 23 3/4". It features two horizontal dividers. The spacing between the dividers is 2" on the left, 23 3/4" between the dividers, and 2" on the right. The frame is labeled "W12" and "D31 @ 2\"". The top and bottom horizontal dividers are labeled "W12". The frame is labeled "WWR6" at the bottom.

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.

G4 and G5 not required for interior girders. G3 and G6 not required for exterior girders of intermediate spans. Half no. of G3, G4, G5 and G6 not required for ext. girders of end spans.

Use 14 strands, 0.6"Ø Grade 270, with an initial prestress force of 615 kips.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior girders are the same except: coil ties, top flange blockout, application of bond breaker.

For Girder Camber Diagram, see Sheet
No. B04-22.

For location of coil ties at concrete diaphragms and integral bents, see Sheets No. B04-14 and B04-21.

For additional NU Girder Details, see
Sheet No. B04-20.

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(1) Fabricator shall apply a bond breaker to this region.

4' - 0 $\frac{1}{4}$ "

9" (1) Smooth Finished 9" (1)

R=2" (Typ.)

R=7 $\frac{7}{8}$ " (Typ.)

R=7 $\frac{7}{8}$ " (Typ.)

R=2" (Typ.)

5 $\frac{7}{8}$ "

20 $\frac{11}{16}$ "

1 $\frac{3}{8}$ "

5 $\frac{1}{2}$ "

5 $\frac{11}{16}$ "

2' - 11 $\frac{7}{16}$ "

2 $\frac{3}{4}$ " Chamfer (Typ.)

3' - 2 $\frac{3}{8}$ "

(+ $\frac{3}{4}$ " - $\frac{5}{8}$ ")

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about \bar{C} Girder. May be moved laterally in pairs.

3/8"Ø Reinforcement Support Strands (Required) (Typ.) (2)

4" 2" 1" (Typ.)

2" 6 $\frac{3}{16}$ " 13 Spa. @ 2" 6 $\frac{3}{16}$ "

2" 6 $\frac{3}{16}$ " 5 Spa. 6" 5 Spa. 2" 6 $\frac{3}{16}$ "

Cut top 2 rows of strands with a 12" projection and bend in shop (Cut any remaining top strands within 1" of end of girder) (Typ.)

3'-0" (Typ.)

6"

6" (Typ.)

3" (Min.)

#5 Strand Tie Bar (Normal to girders) (Typ.)

Cut & shop bend with 3'-0" projection (Cut any remaining bottom strands within 1" of girder end) (Typ.)

5 Pr. - #4D1 @ 4" cts.
& 2-WWR6

1 3/4" 3"

20 Pr. - #6-B2 and 20 Pr. - 4-D1
(Spaced as shown)
19 spa. @ 6"

6" 3 spa. @ 9" 16 1/8"

10 Pr. - #5-B1 and 10 Pr. - #4-D1
(Spaced as shown)
5 spa. @ 18"

9"

WWR5

Symmetrical abt. CL of Girder

5" 46' - 3 3/4" 4' - 9"

CL Bearing 46' - 3 3/4" CL - CL Brg.

Diagram illustrating the cross-section of a closed diaphragm and integral bent. The structure is shown with a central vertical section and two horizontal sections (bents) at the top and bottom. The bottom bent is labeled "CLOSED DIAPHRAGMS AND INTEGRAL BENTS".

Dimensions and details:

- Top horizontal section: 1/2" (Typ.)
- Bottom horizontal section: 3/4"Ø (Min.) Coil Tie Rods 2' - 6" long (3)
- Bottom bent: 3"

CLOSED DIAPHRAGMS
AND INTEGRAL BENTS

COIL TIES

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

(3) 18" at exterior face of exterior
girders at end bents

Technical drawing of a lifting device. The drawing shows a side view of a rectangular component with a grid pattern. Key dimensions and labels include:

- A**: Dimension across the top of the component.
- #4-G3**: Label pointing to the top edge of the component.
- WWR5**: Label pointing to the right edge of the component.
- Max. 8"**: Dimension across the middle of the component.
- 6"**: Dimension across the bottom of the component.
- (Min.)**: Label below the 6" dimension.
- Slew Angle**: Label pointing to the bottom-left corner of the component.
- © Lifting Devices**: Copyright notice at the bottom right.

**** number of spaces = C+1**

The diagram illustrates a lifting device with a horizontal section of length **A** and a vertical section of height **C**. The horizontal section is divided into **#4-G3** and **C-#4-G6** sections. The vertical section is labeled **WWR5**. The horizontal distance between the vertical sections is labeled **** Eq. Spa. (Max. 8")**. The vertical distance between the horizontal sections is labeled **6" (Min.)**. The **Skew Angle** is indicated by a dashed line. The text **Lifting Devices** is partially visible at the bottom right.

Figure 10 consists of two cross-sectional diagrams of a concrete wall assembly. The left diagram shows a wall with an exterior face, interior face, and a central core. It includes labels for dimensions A and B, reinforcement #4-G4 and #4-G5, and a WWR5. A skew angle is indicated at the bottom left. The right diagram shows a similar wall assembly with a WWR5 and a skew angle. It includes labels for dimensions A and B, reinforcement #4-G4 and #4-G5, and a WWR5. A skew angle is indicated at the bottom right. Both diagrams show lifting devices at the base.

(Left exterior girder shown, rotate 180° for right exterior girder)

(See Table of Variables for detail assignment to specific girders)
(Left advance skew shown, mirror for right advance skew)

| Span No. | Girder No. | Bent No. | Detail | A | B | C | D | E | F |
|----------|------------|----------|--------|------------------------------------|---------------------------------|-----|-------|-------|--------|
| 1-2 | 1 | 1 | 3 | 2'-0 ¹ / ₂ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 2 | 1 | 3 | 2'-0 ¹ / ₂ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 3 | 1 | 3 | 2'-0 ³ / ₈ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 4 | 1 | 3 | 2'-0 ³ / ₈ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 5 | 1 | 3 | 2'-0 ¹ / ₂ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 6 | 1 | 3 | 2'-0 ¹ / ₂ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 7 | 1 | 3 | 2'-0 ³ / ₈ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 8 | 1 | 3 | 2'-0 ³ / ₈ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 1 | 2 | 4 | 23 ¹ / ₄ " | 8 ³ / ₈ " | --- | 4'-8" | 3'-3" | --- |
| 1-2 | 2 | 2 | 3 | 23 ¹ / ₄ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 3 | 2 | 3 | 23 ¹ / ₄ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 4 | 2 | 3 | 23 ¹ / ₄ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 5 | 2 | 3 | 23 ¹ / ₄ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 6 | 2 | 3 | 23 ¹ / ₄ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 7 | 2 | 3 | 23 ¹ / ₄ " | --- | 5 | 4'-8" | 3'-3" | Varies |
| 1-2 | 8 | 2 | 4 | 23 ¹ / ₄ " | 8 ¹ / ₂ " | --- | 4'-8" | 3'-3" | --- |

| Span No. | Girder No. | Bent No. | Detail | A | B | C | D | E | F |
|----------|------------|----------|--------|------------------------------------|---------------------------------|-----|-------|-------|--------|
| 2-3 | 1 | 2 | 4 | 21 ³ / ₈ " | 7 ¹ / ₈ " | --- | 4'-6" | 3'-2" | --- |
| 2-3 | 2 | 2 | 3 | 21 ³ / ₈ " | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 3 | 2 | 3 | 21 ³ / ₈ " | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 4 | 2 | 3 | 21 ³ / ₈ " | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 5 | 2 | 3 | 21 ³ / ₈ " | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 6 | 2 | 3 | 21 ³ / ₈ " | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 7 | 2 | 3 | 21 ³ / ₈ " | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 8 | 2 | 4 | 21 ³ / ₈ " | 7 ¹ / ₈ " | --- | 4'-6" | 3'-2" | --- |
| 2-3 | 1 | 3 | 4 | 23" | 8 ³ / ₄ " | --- | 4'-6" | 3'-2" | --- |
| 2-3 | 2 | 3 | 3 | 23" | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 3 | 3 | 3 | 23" | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 4 | 3 | 3 | 23" | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 5 | 3 | 3 | 23" | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 6 | 3 | 3 | 23" | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 7 | 3 | 3 | 23" | --- | 4 | 4'-6" | 3'-2" | Varies |
| 2-3 | 8 | 3 | 4 | 23" | 8 ³ / ₄ " | --- | 4'-6" | 3'-2" | --- |
| 3-4 | 1 | 3 | 4 | 20 ¹ / ₂ " | 6 ³ / ₄ " | --- | 4'-5" | 3'-0" | --- |
| 3-4 | 2 | 3 | 3 | 20 ¹ / ₂ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 3 | 3 | 3 | 20 ³ / ₈ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 4 | 3 | 3 | 20 ³ / ₈ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 5 | 3 | 3 | 20 ¹ / ₂ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 6 | 3 | 3 | 20 ¹ / ₂ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 7 | 3 | 3 | 20 ¹ / ₂ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 8 | 3 | 4 | 20 ¹ / ₂ " | 6 ⁵ / ₈ " | --- | 4'-5" | 3'-0" | --- |
| 3-4 | 1 | 4 | 3 | 2'-0 ³ / ₄ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 2 | 4 | 3 | 2'-0 ⁷ / ₈ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 3 | 4 | 3 | 2'-0 ⁷ / ₈ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 4 | 4 | 3 | 2'-0 ⁷ / ₈ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 5 | 4 | 3 | 2'-0 ³ / ₄ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 6 | 4 | 3 | 2'-0 ³ / ₄ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 7 | 4 | 3 | 2'-0 ³ / ₄ " | --- | 4 | 4'-5" | 3'-0" | Varies |
| 3-4 | 8 | 4 | 3 | 2'-0 ⁷ / ₈ " | --- | 4 | 4'-5" | 3'-0" | Varies |

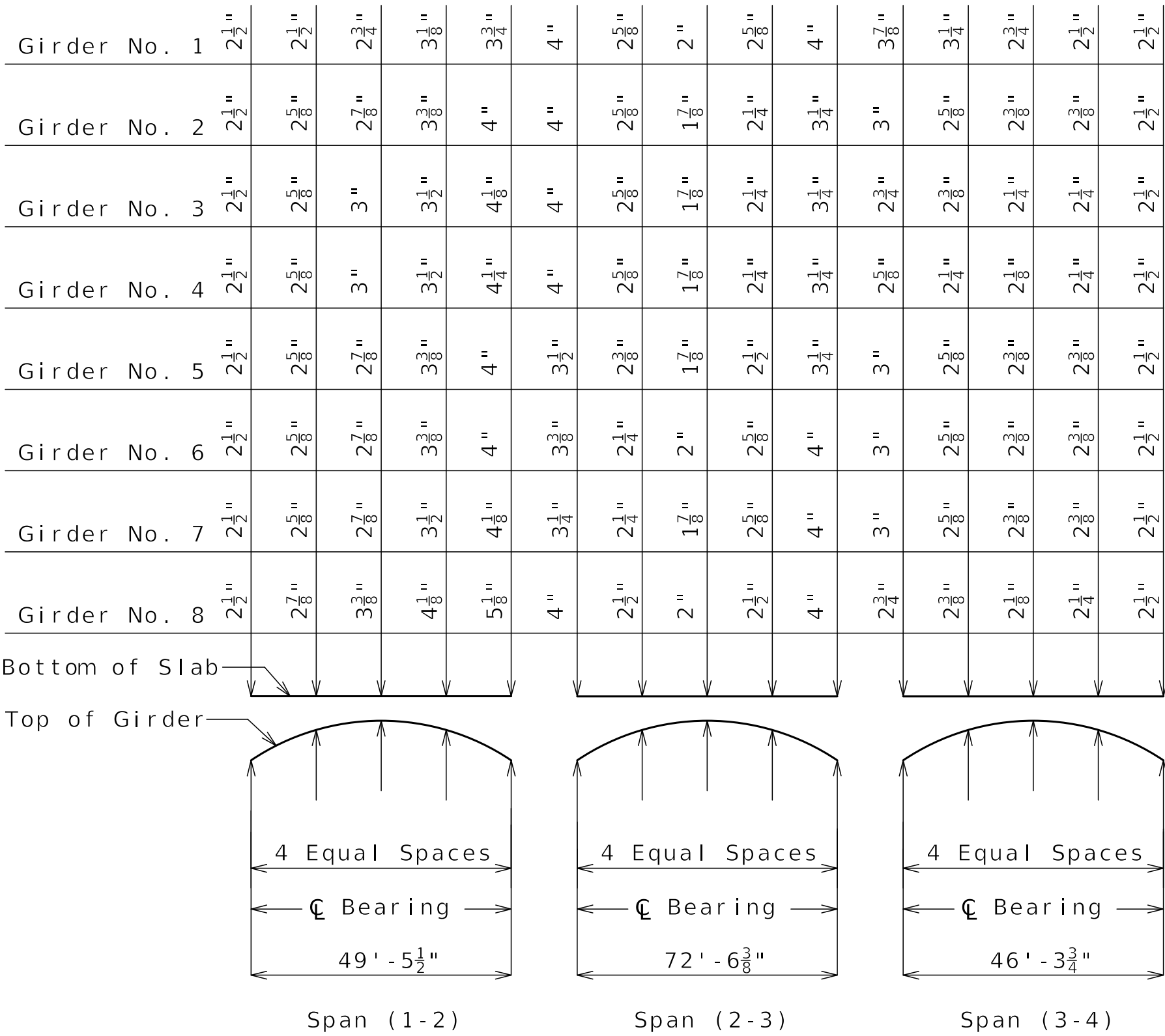
| BILL OF REINFORCING STEEL - EACH GIRDER | | | | BENDING DIAGRAMS |
|---|-------------|---------------|-------|------------------|
| NO. | SIZE & MARK | ACTUAL LENGTH | SHAPE | |
| 2 | 4 G3 | D | 20 | |
| 2 | 4 G4 | 2' - 1 " | 20 | |
| 2 | 4 G5 | E | 20 | |
| * | 4 G6 | F | 20 | |
| | | | | |
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SHAPE 20

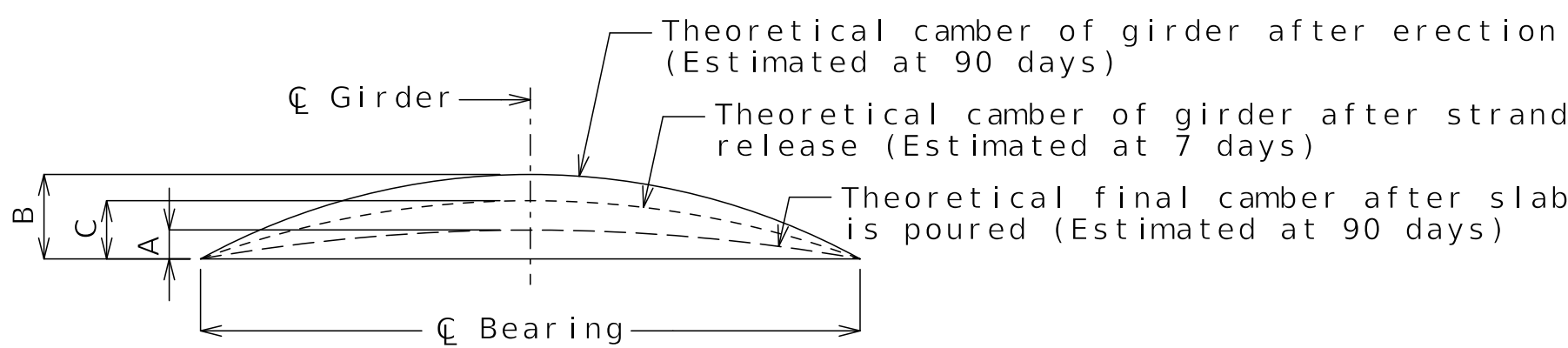
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NU GIRDER DETAILS



THEORETICAL SLAB HAUNCHING DIAGRAM



| Girder | Span (1-2) | | | Span (2-3) | | | Span (3-4) | | |
|--------|------------|------|------|------------|--------|--------|------------|--------|------|
| | A | B | C | A | B | C | A | B | C |
| 1 | 1/2" | 7/8" | 1/2" | 2 1/4" | 3 1/2" | 2 3/8" | 1/2" | 4 3/4" | 1/2" |
| 2 | 1/2" | 7/8" | 1/2" | 2" | 3 1/2" | 2 3/8" | 1/2" | 4 3/4" | 1/2" |
| 3 | 1/2" | 7/8" | 1/2" | 2" | 3 1/2" | 2 3/8" | 1/2" | 4 3/4" | 1/2" |
| 4 | 1/2" | 7/8" | 1/2" | 2" | 3 1/2" | 2 3/8" | 1/2" | 4 3/4" | 1/2" |
| 5 | 1/2" | 7/8" | 1/2" | 2" | 3 1/2" | 2 3/8" | 1/2" | 4 3/4" | 1/2" |
| 6 | 1/2" | 7/8" | 1/2" | 2" | 3 1/2" | 2 3/8" | 1/2" | 4 3/4" | 1/2" |
| 7 | 1/2" | 7/8" | 1/2" | 2" | 3 1/2" | 2 3/8" | 1/2" | 4 3/4" | 1/2" |
| 8 | 1/2" | 7/8" | 1/2" | 2 1/4" | 3 1/2" | 2 3/8" | 1/2" | 4 3/4" | 1/2" |

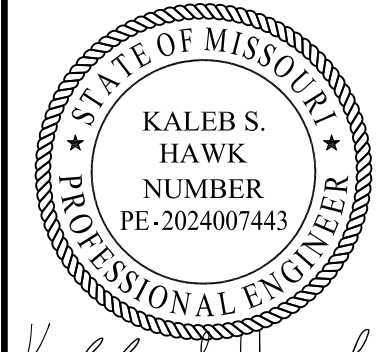
GIRDER CAMBER DIAGRAM

Conversion Factors for Girder Camber (Estimated at 90 days)

- 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.

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.

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Kaleb S. Hawk
9-11-25

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ROUTE
1-70
STATE
MO
DISTRICT
BR
SHEET NO.
B04-22

COUNTY
JACKSON
JOB NO.
J411486D
CONTRACT ID.
240807-C01
PROJECT NO.

BRIDGE NO.
A9632

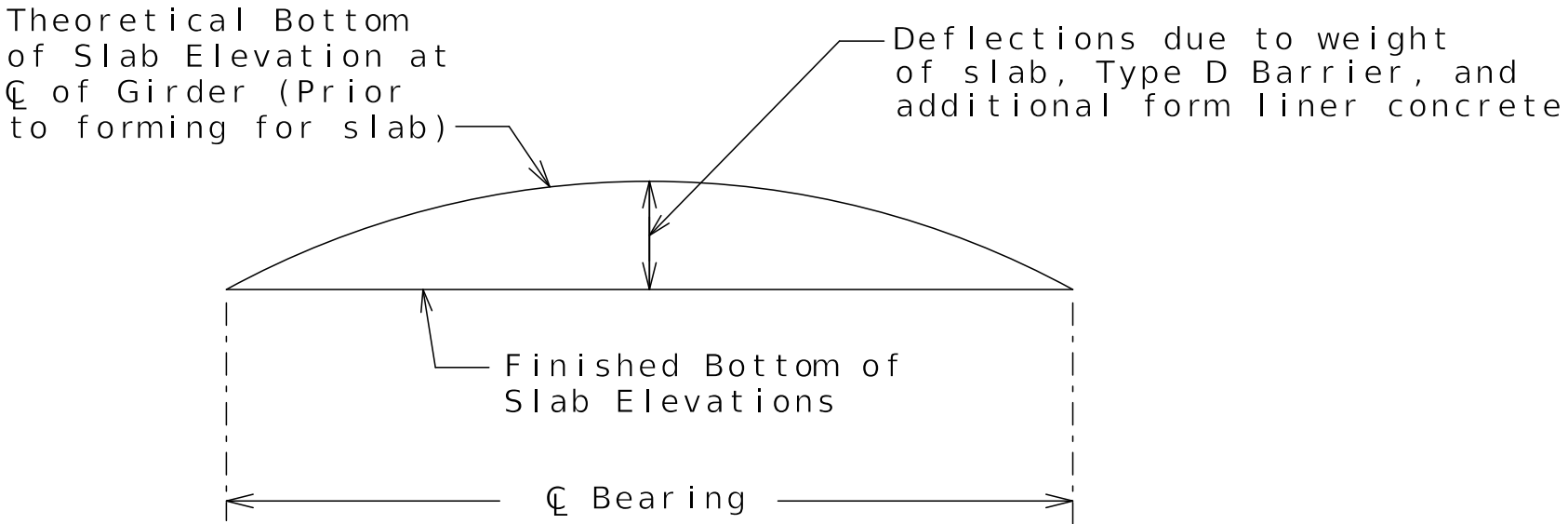
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270
HNTB

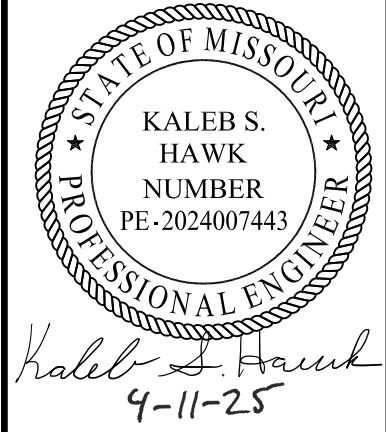
| Theoretical Bottom of Slab Elevations at Centerline of Girder (Prior to forming for slab)** | | | | | |
|---|---|--------|--------|--------|--------|
| Girder Number | Span (1-2) (49'-5 1/2" C Brg. - C Brg.) | | | | |
| | C Brg. | .25 | .50 | .75 | 1.00 |
| 1 | 889.92 | 889.72 | 889.51 | 889.28 | 889.03 |
| 2 | 890.38 | 890.19 | 889.98 | 889.74 | 889.49 |
| 3 | 890.85 | 890.65 | 890.44 | 890.21 | 889.96 |
| 4 | 891.31 | 891.12 | 890.90 | 890.67 | 890.42 |
| 5 | 891.78 | 891.58 | 891.37 | 891.14 | 890.88 |
| 6 | 892.25 | 892.05 | 891.84 | 891.60 | 891.35 |
| 7 | 892.71 | 892.52 | 892.30 | 892.07 | 891.82 |
| 8 | 893.18 | 892.98 | 892.76 | 892.53 | 892.29 |
| Girder Number | Span (2-3) (72'-6 3/8" C Brg. - C Brg.) | | | | |
| | C Brg. | .25 | .50 | .75 | 1.00 |
| 1 | 889.05 | 888.72 | 888.34 | 887.88 | 887.37 |
| 2 | 889.50 | 889.19 | 888.81 | 888.35 | 887.81 |
| 3 | 889.95 | 889.64 | 889.26 | 888.79 | 888.26 |
| 4 | 890.39 | 890.08 | 889.71 | 889.24 | 888.72 |
| 5 | 890.84 | 890.53 | 890.16 | 889.70 | 889.17 |
| 6 | 891.30 | 890.99 | 890.61 | 890.15 | 889.62 |
| 7 | 891.75 | 891.44 | 891.06 | 890.60 | 890.08 |
| 8 | 892.20 | 891.87 | 891.49 | 891.04 | 890.54 |
| Girder Number | Span (3-4) (46'-3 3/4" C Brg. - C Brg.) | | | | |
| | C Brg. | .25 | .50 | .75 | 1.00 |
| 1 | 887.35 | 887.04 | 886.72 | 886.39 | 886.04 |
| 2 | 887.79 | 887.48 | 887.16 | 886.83 | 886.48 |
| 3 | 888.23 | 887.92 | 887.60 | 887.27 | 886.92 |
| 4 | 888.66 | 888.36 | 888.04 | 887.71 | 887.36 |
| 5 | 889.10 | 888.80 | 888.49 | 888.15 | 887.81 |
| 6 | 889.55 | 889.24 | 888.93 | 888.60 | 888.25 |
| 7 | 889.99 | 889.69 | 889.37 | 889.04 | 888.70 |
| 8 | 890.43 | 890.13 | 889.82 | 889.49 | 889.15 |

**Elevations are based on a constant slab thickness of 8 1/2" and include allowance for theoretical dead load deflections due to weight of slab (including Type D Barrier and additional form liner concrete).



TYPICAL SLAB ELEVATIONS DIAGRAM

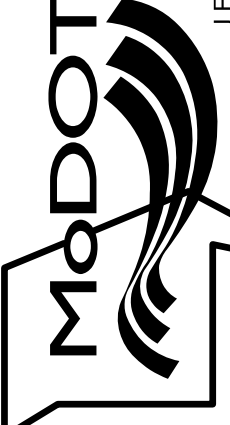
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| ROUTE I - 70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-23 |
| COUNTY JACKSON | |
| JOB NO. J4I1486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |
| BRIDGE NO. A9632 | |

| DATE | DESCRIPTION | | | | |
|----------|-------------|---|-----|---|---|
| | REV 0 | - | REV | 0 | - |
| 04/11/25 | | | | | |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

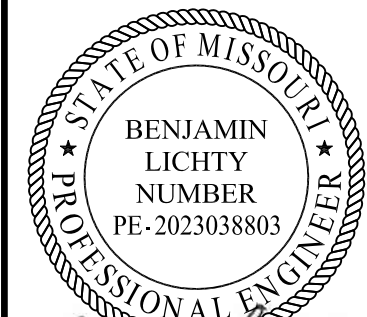


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715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270





Benjamin Lichty
04-11-2025

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04/11/2025

ROUTE
I-70

STATE
MO

DISTRICT
BR

SHEET NO.
B04-24

COUNTY
JACKSON

JOB NO.
J411486D

CONTRACT ID.
240807-C01

PROJECT NO.

BRIDGE NO.
A9632

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

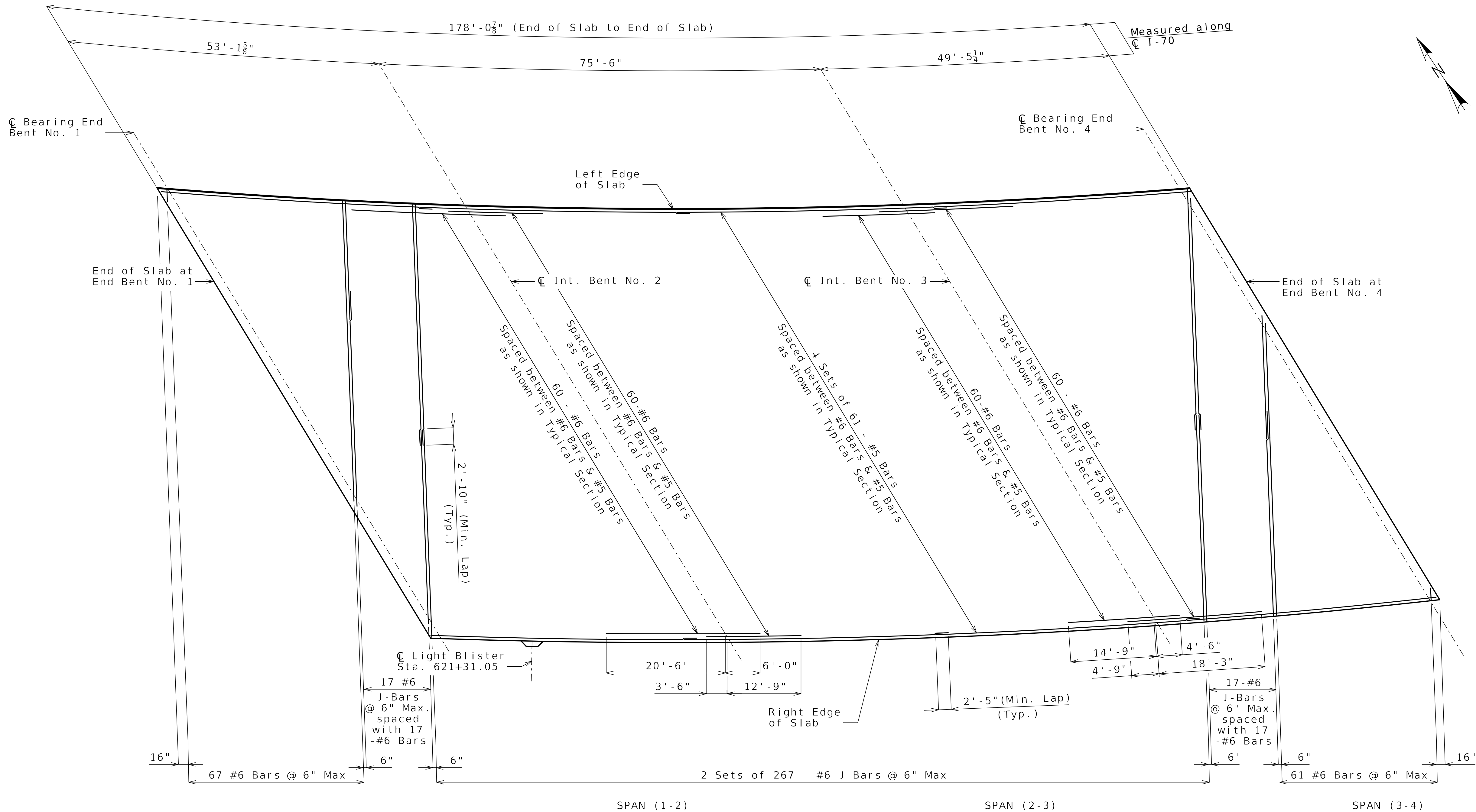
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CLARKSON RADMACHER JOINT VENTURE

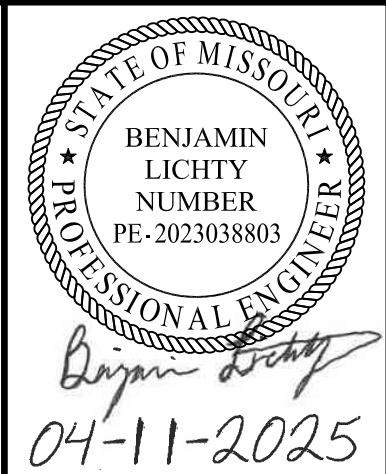
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Notes:
Work this sheet with Sheet No. B04-25.
For Typical Section, see Sheet No. B04-26.
For Slab Pouring Sequence, see Sheet No. B04-25.
For Details and Reinforcement of Barrier, see Sheet No. B04-28.
For Theoretical Slab Haunching Diagram and Girder Camber Diagram, see Sheet No. B04-22.
For Theoretical Bottom of Slab Elevations, see Sheet No. B04-23.
Longitudinal slab dimensions are measured horizontally.
For Light Blister reinforcing and details, see Sheet No. B04-30.



| | |
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| DATE PREPARED 04/11/2025 | |
| ROUTE 1-70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-25 |
| COUNTY JACKSON | |
| JOB NO. J411486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |

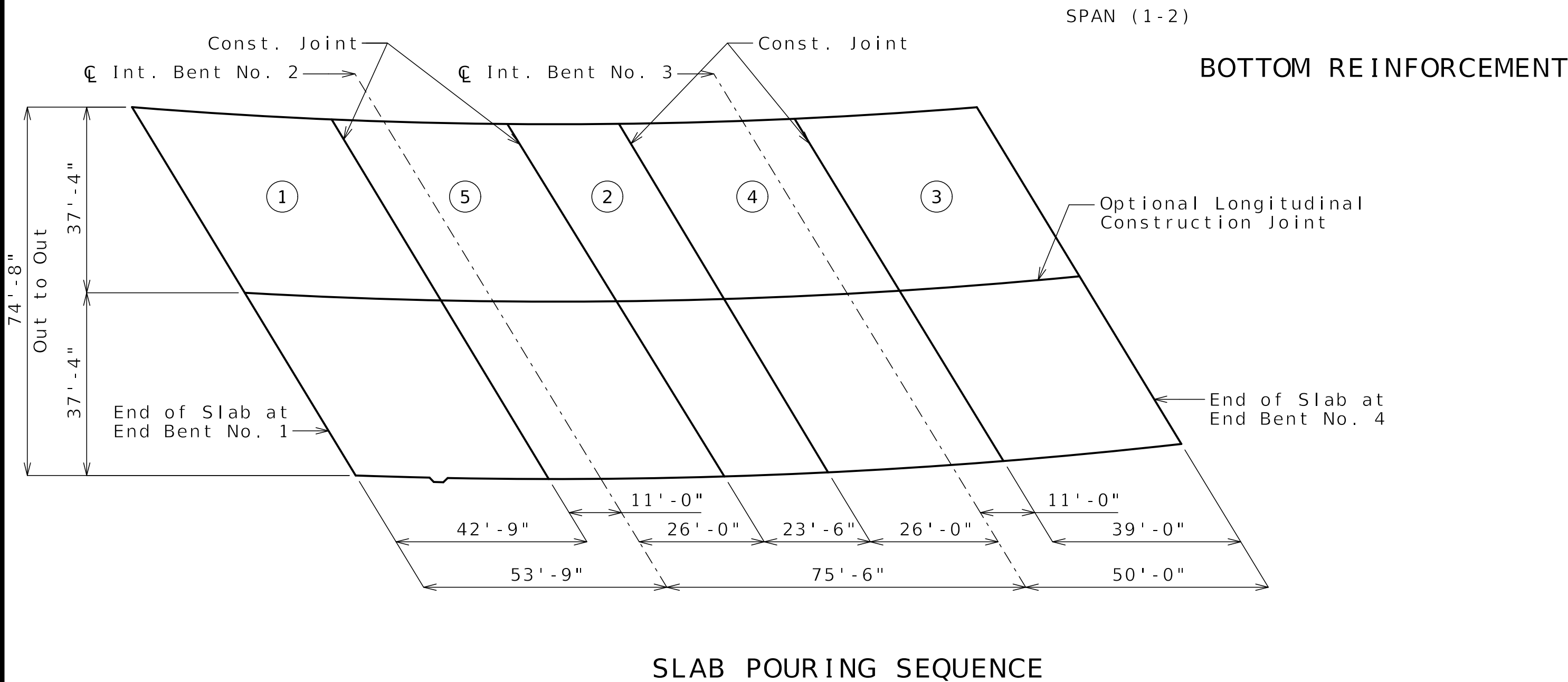
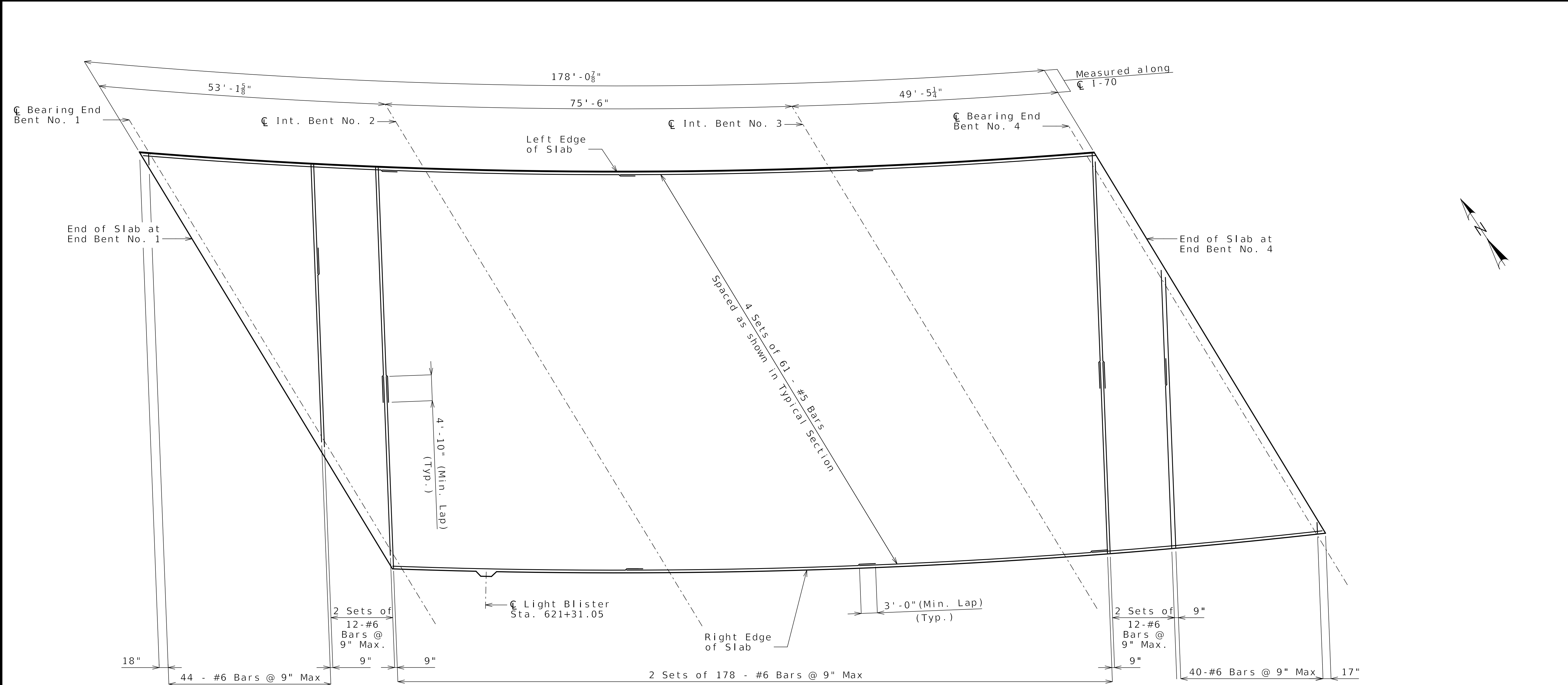
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| BRIDGE NO. A9632 |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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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



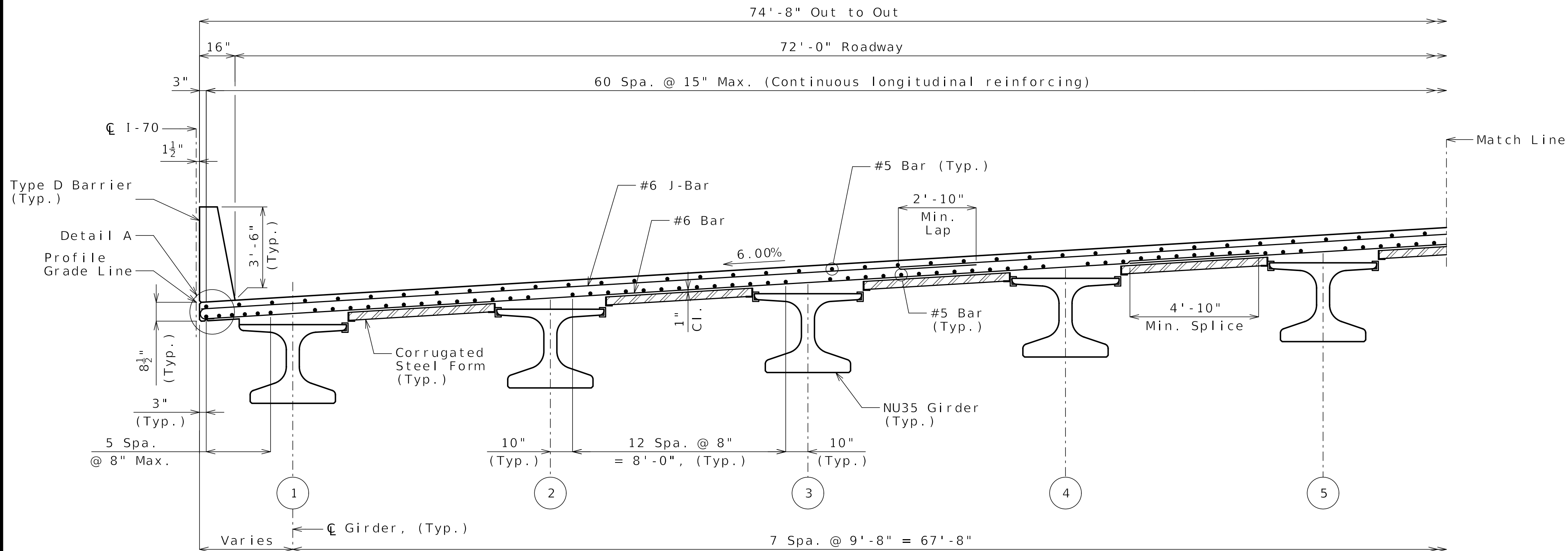
| | Sequence of Pours | | | | | Min. Rate of Pour Cu. Yds./Hr. |
|---|-------------------|--------|----------|----------|----------|-----------------------------------|
| | Direction | | | | | With Retarder |
| Basic Sequence | 3 | 4 | 2 | 5 | 1 | 25* |
| | End to 4 | 3 to 2 | 4 to 5 | 2 to 1 | 5 to End | |
| Alternate pours to the basic sequence are subject to the approval of the engineer in accordance with Sec 703. | | | | | | |
| Alternate A Pours | 3 | 4 + 2 | | 5 + 1 | | 45 |
| | End to 4 | 3 to 5 | | 2 to End | | |
| Alternate B Pours | 3 + 4 + 2 | | 5 + 1 | | | 45 |
| | End to 5 | | 2 to End | | | |
| Alternate C Pours | 3 + 4 + 2 + 5 + 1 | | | | | 45 |
| | 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.

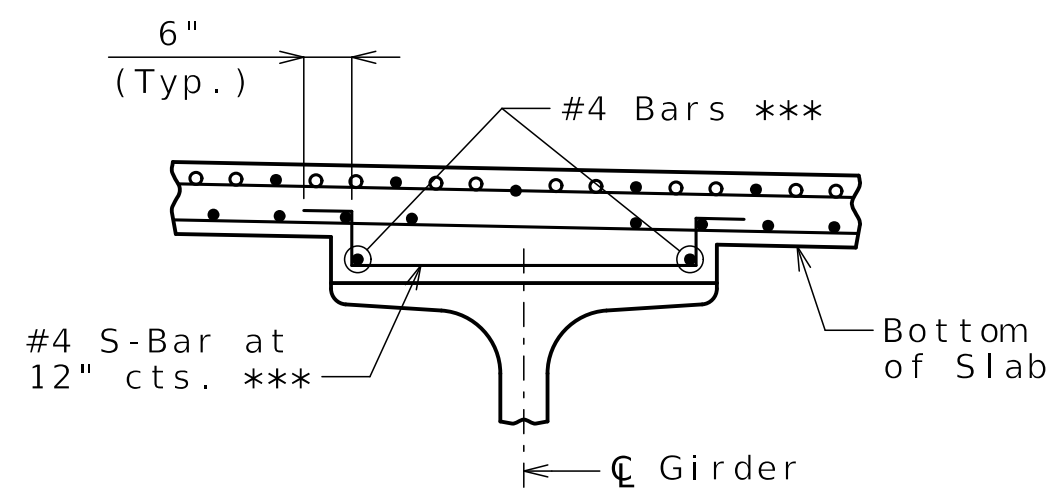
The concrete diaphragm at the intermediate bent and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

* A minimum finishing rate of 20 LF/HR shall be maintained, otherwise the optional longitudinal construction joint shall be required.

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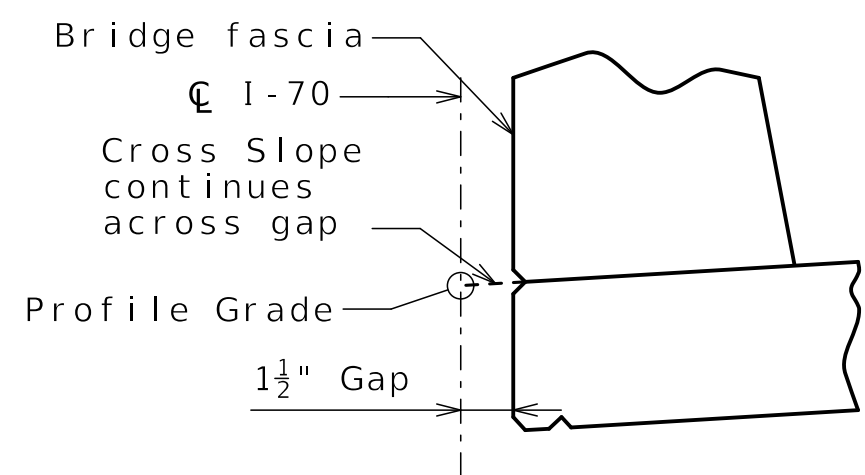


HALF SECTION NEAR MIDSPAN

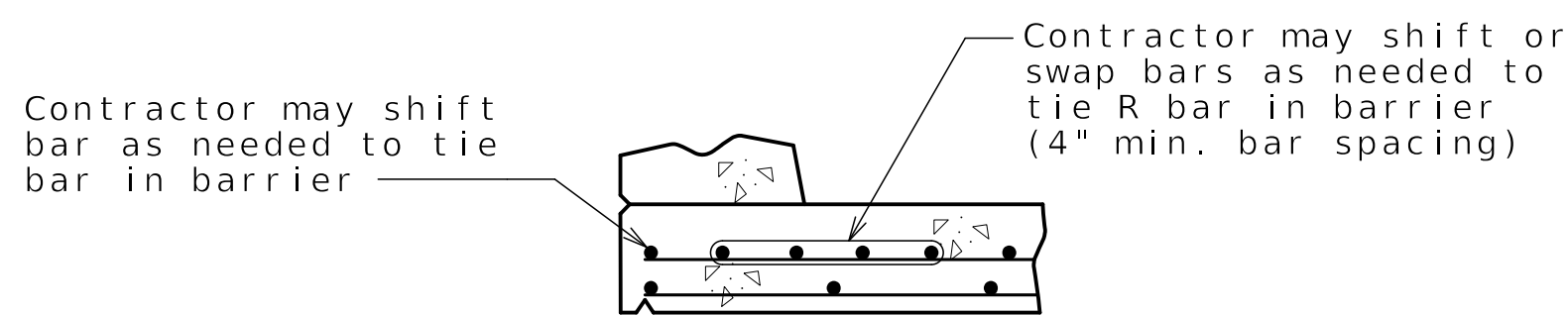


HAUNCH REINFORCING DETAIL
(Prestressed Girders)

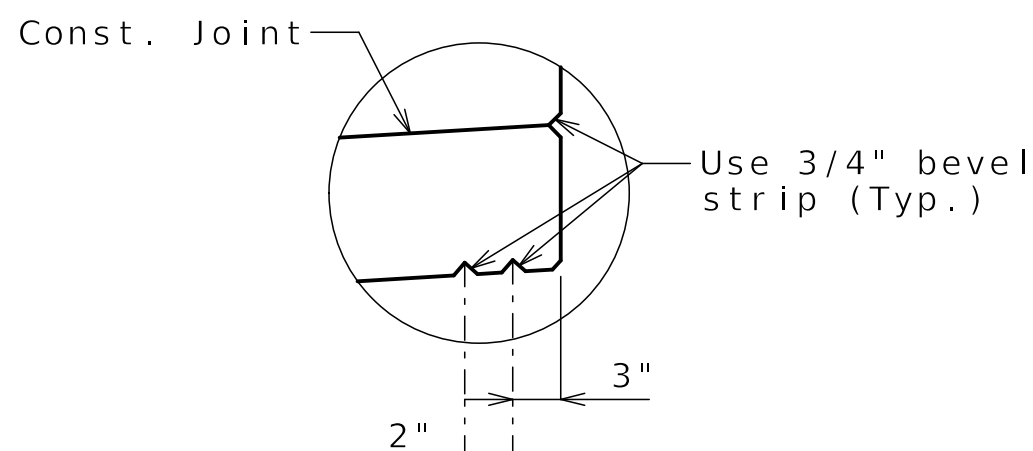
*** Contractor shall provide #4 Bars and #4 S-Bars as necessary where the haunch exceeds 4 inches measured at centerline of girder. See Theoretical Slab Haunching Diagram on Sheet No. B04-22 for haunch thickness.



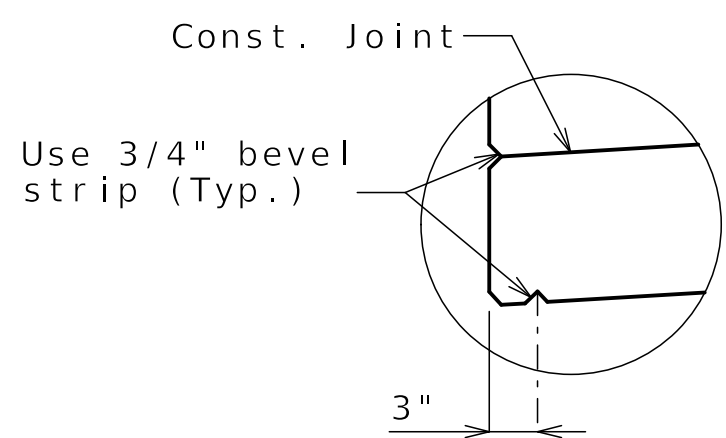
PROFILE GRADE DETAIL



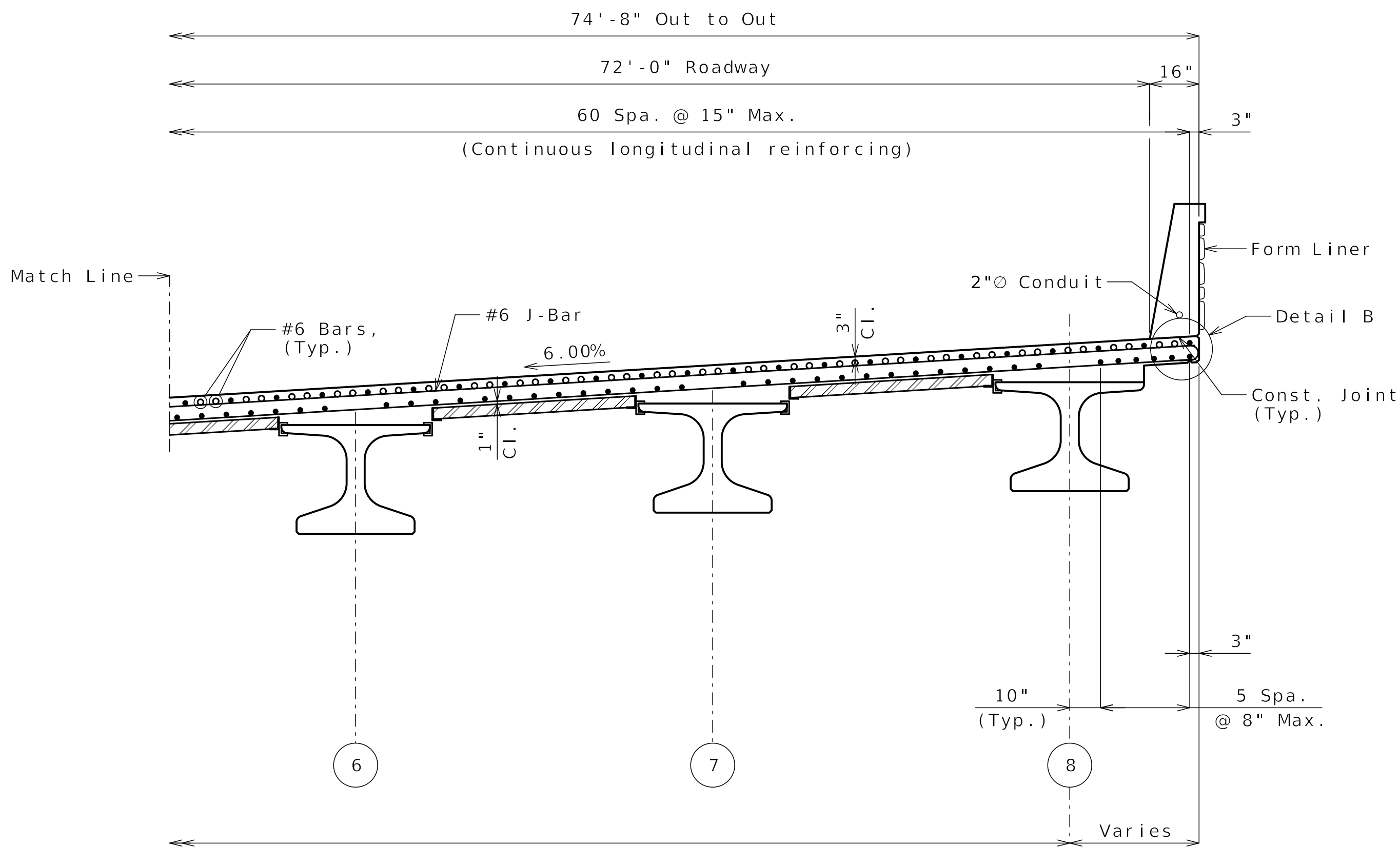
OPTIONAL SHIFTING
TOP BARS AT BARRIER



DETAIL B
(High side of slab)



DETAIL A
(Low side of slab)

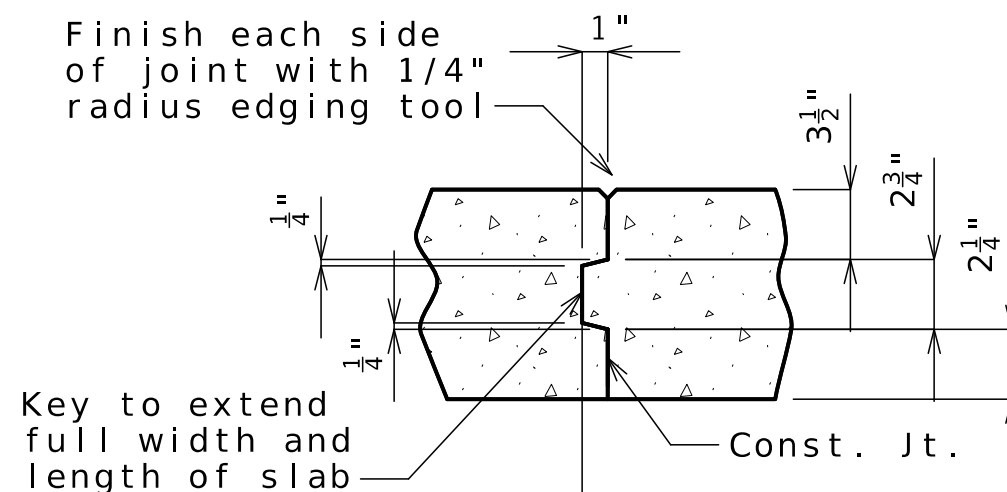


HALF SECTION NEAR INTERMEDIATE BENT

TYPICAL SECTION
(Looking Ahead Sta.)

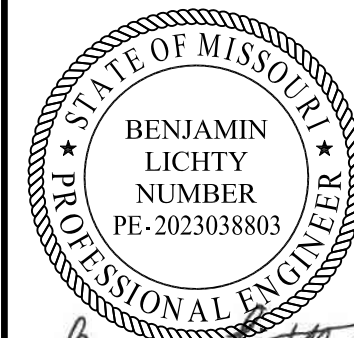
Notes:
Cant #6 transverse hooked bars as needed to provide clearance.
For Plan of Slab showing Top and Bottom Reinforcement, see Sheets No. B04-24 and B04-25.
For reinforcement of Type D barrier not shown, see Sheet No. B04-28.
For Details of Conduit System on Structure, see Sheet No. B04-32.
For Form Liner and Aesthetic Stain Details not shown, see Sheet No. B04-31.

(X) Denotes girder number.



SLAB CONSTRUCTION JOINT

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ROUTE
1-70

STATE
MO

DISTRICT
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SHEET NO.
B04-26

COUNTY
JACKSON

JOB NO.
J411486D

CONTRACT ID.
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PROJECT NO.

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A9632

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MISSOURI HIGHWAYS AND TRANSPORTATION
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CLARKSON
RADMACHER
JOINT VENTURE
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270
HNTB



Benjamin Lichty
04-11-2025

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ROUTE STATE
1 - 70 MO

DISTRICT SHEET NO.
BR B04 - 27

COUNTY
JACKSON

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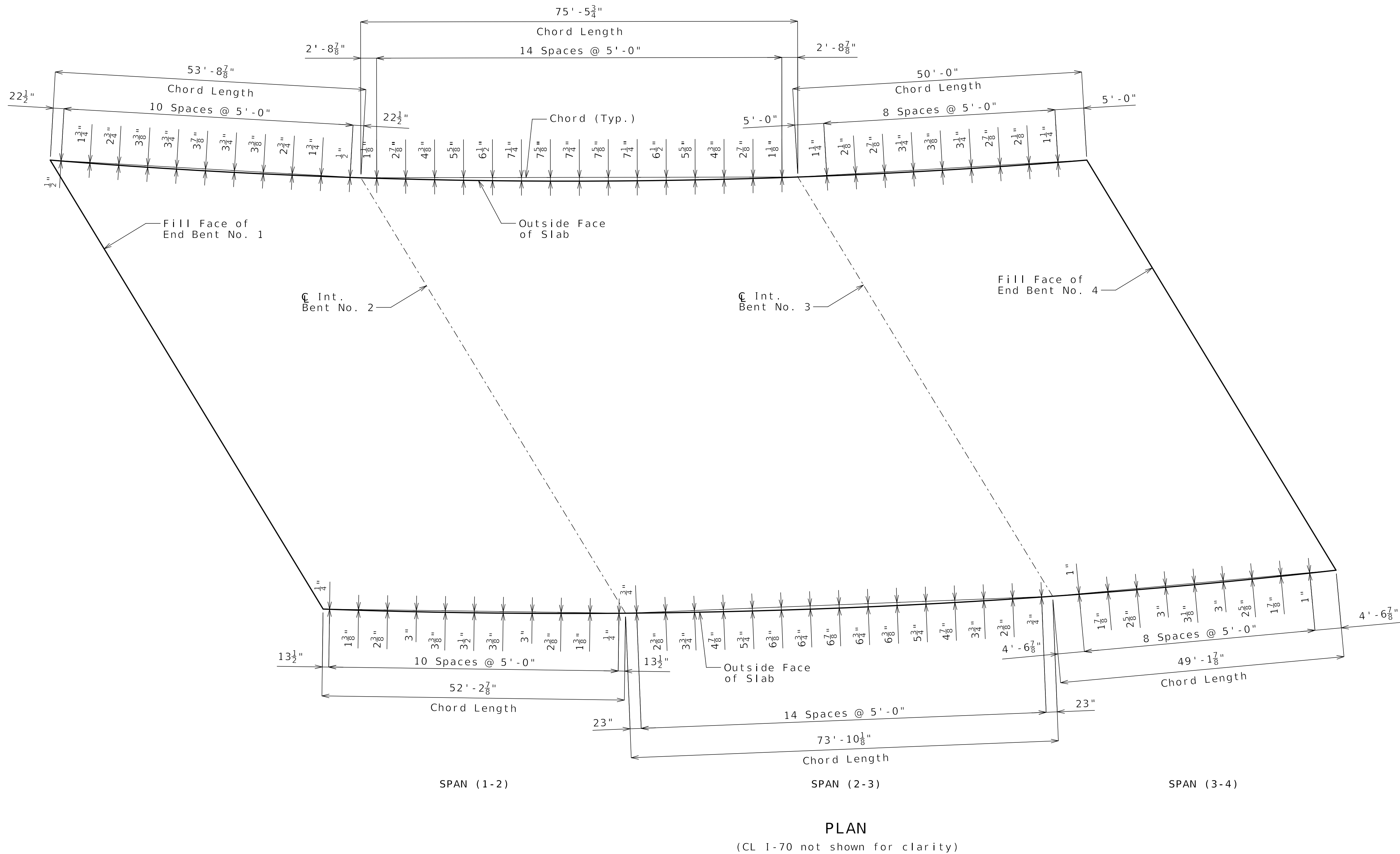
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

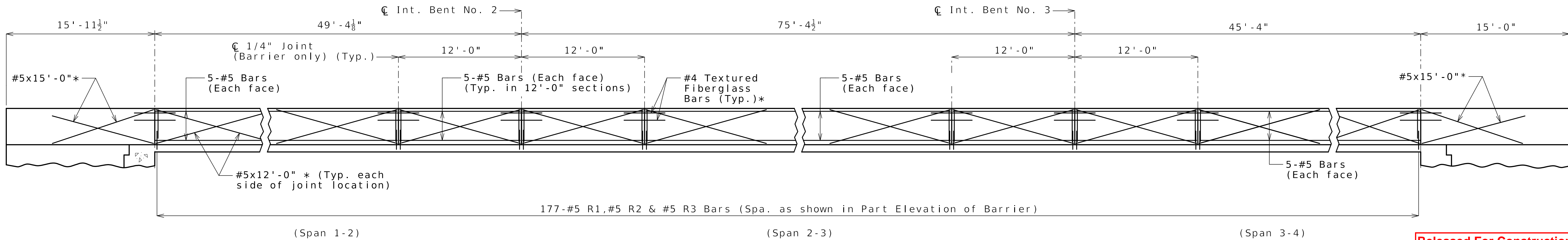


PLAN
(CL I-70 not shown for clarity)

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

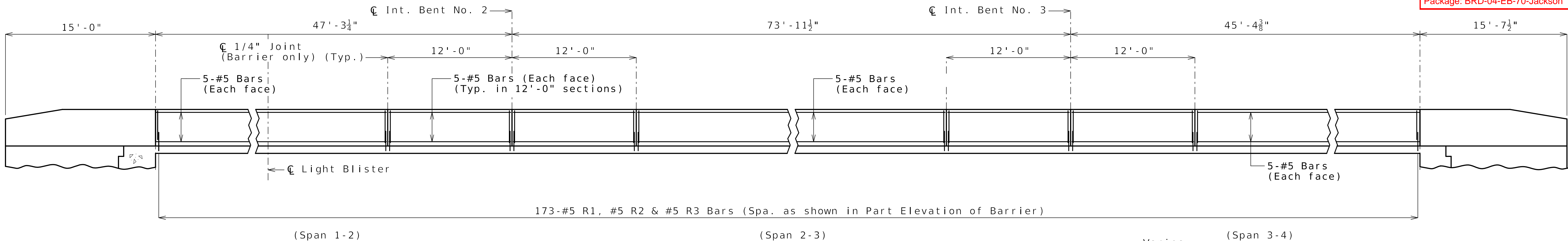
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SLAB CURVE ORDINATES



ELEVATION OF LEFT BARRIER

Longitudinal dimensions are horizontal and measured along the outside of slab.



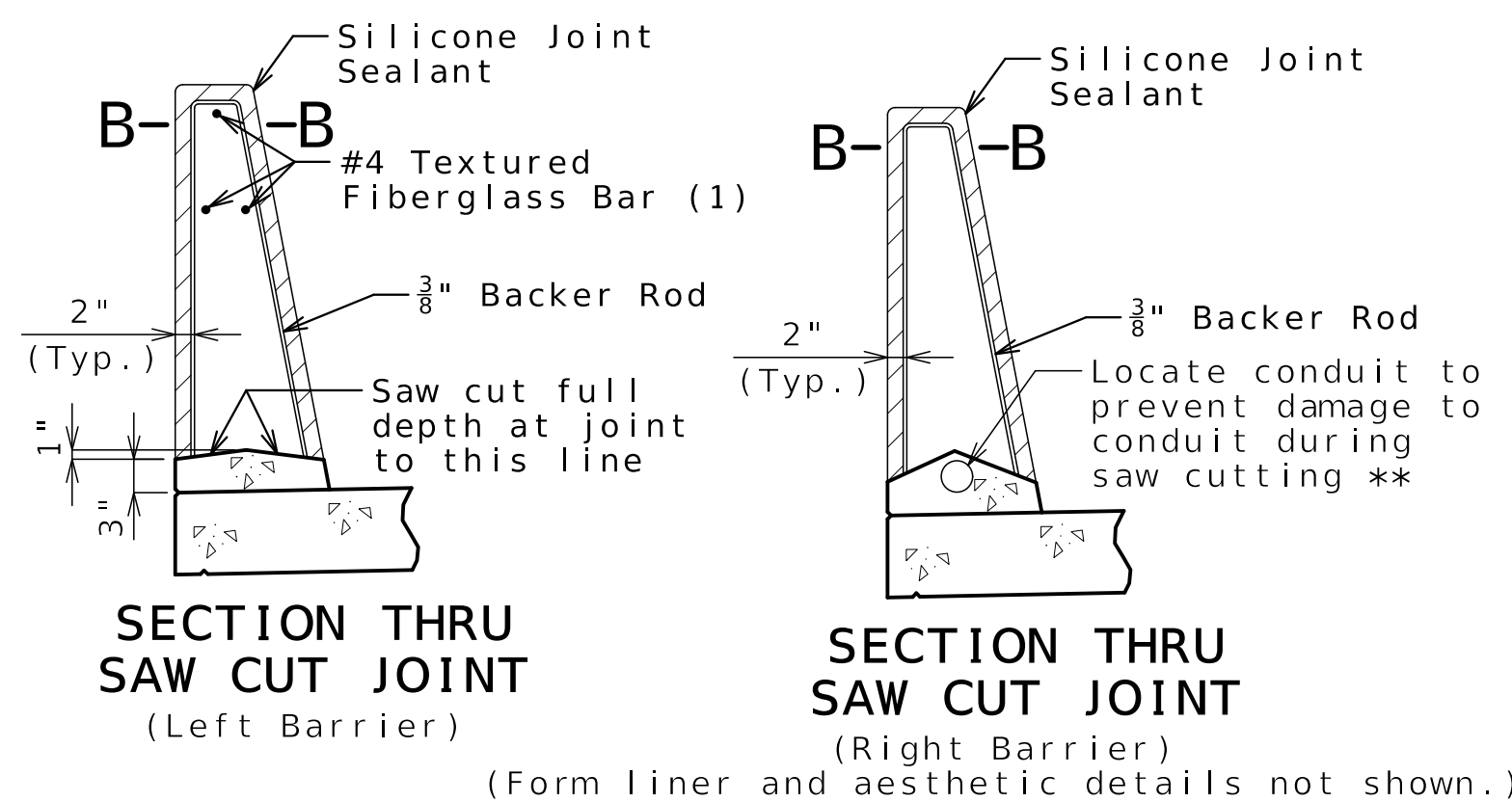
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Revision: 0.0

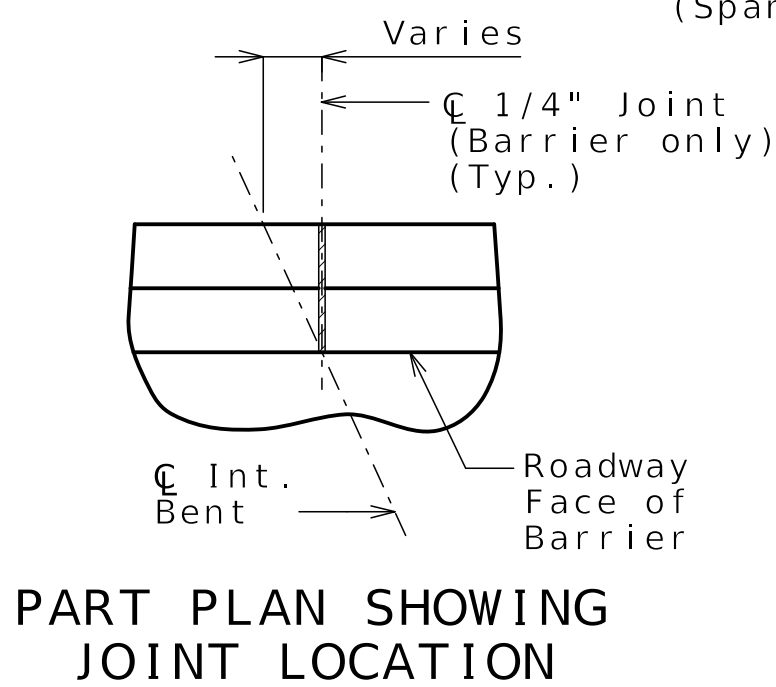
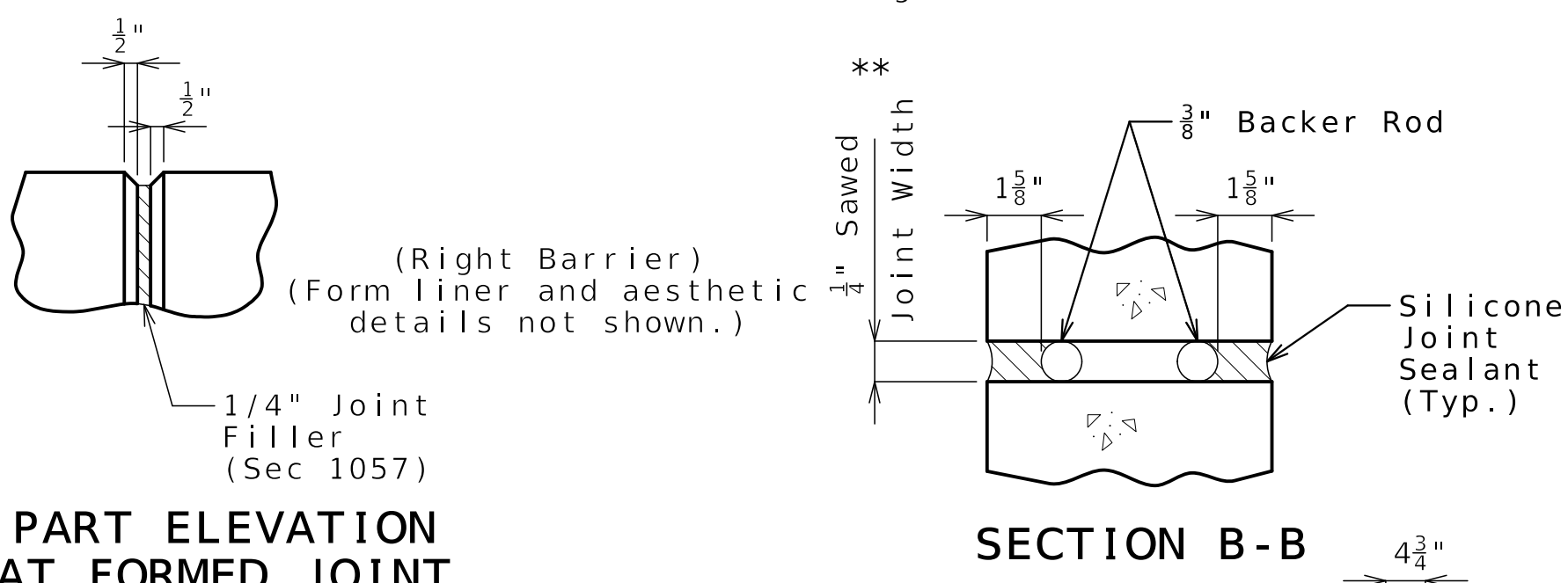
Date: 04/11/2025

Package: BRD-04-EB-70-Jackson



ELEVATION OF RIGHT BARRIER

Longitudinal dimensions are horizontal and measured along the outside of slab.



General Notes:

* Left Barrier Slip-formed option only.

** 2" Ø PVC Conduit (Right barrier only) For Details of Conduit System on Structure, see Sheet No. B04-32.

Conventional forming or slip forming may be used with left barrier. Conventional forming shall be used with right barrier. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Concrete in barrier shall be Class B-1.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides.

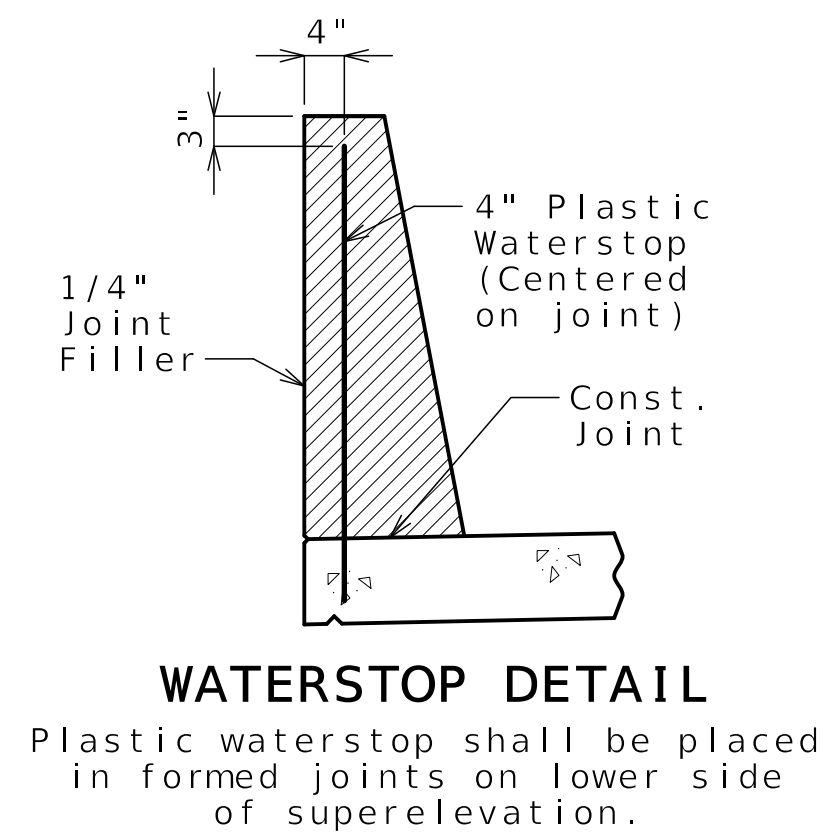
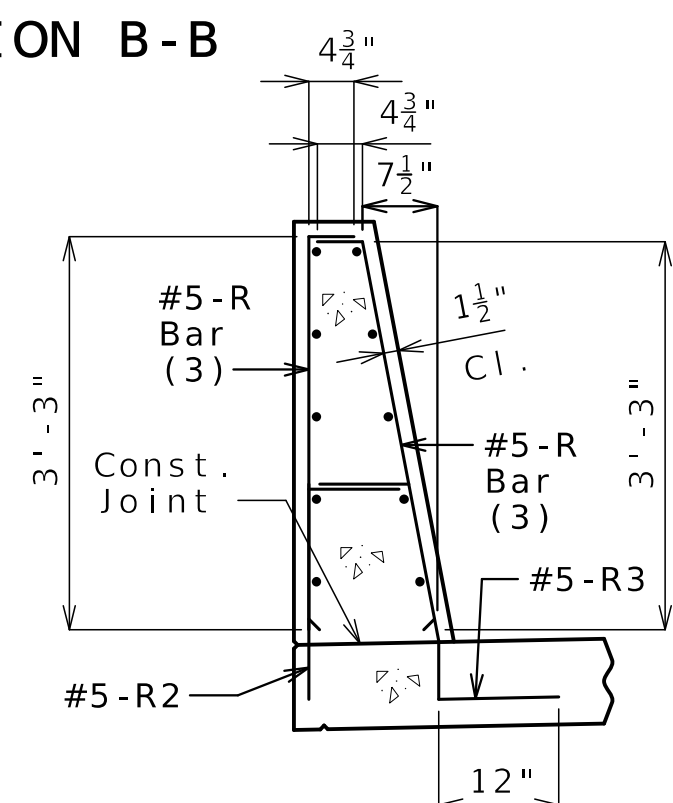
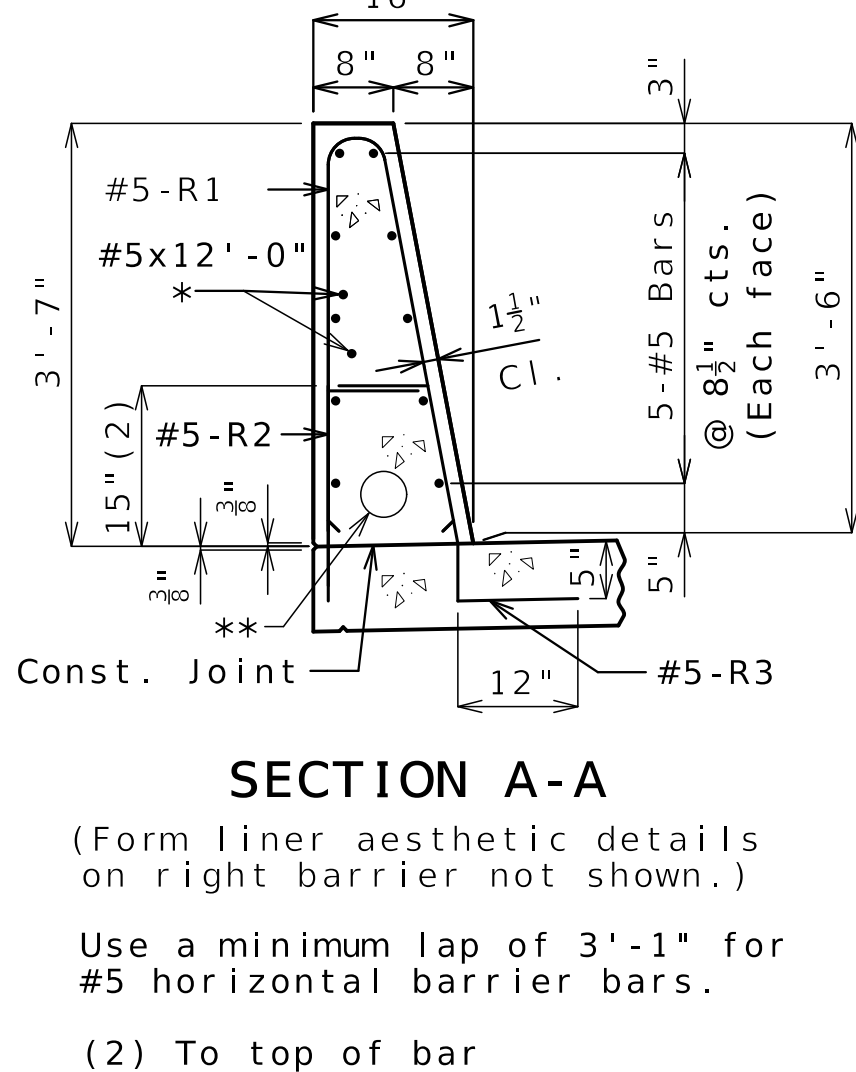
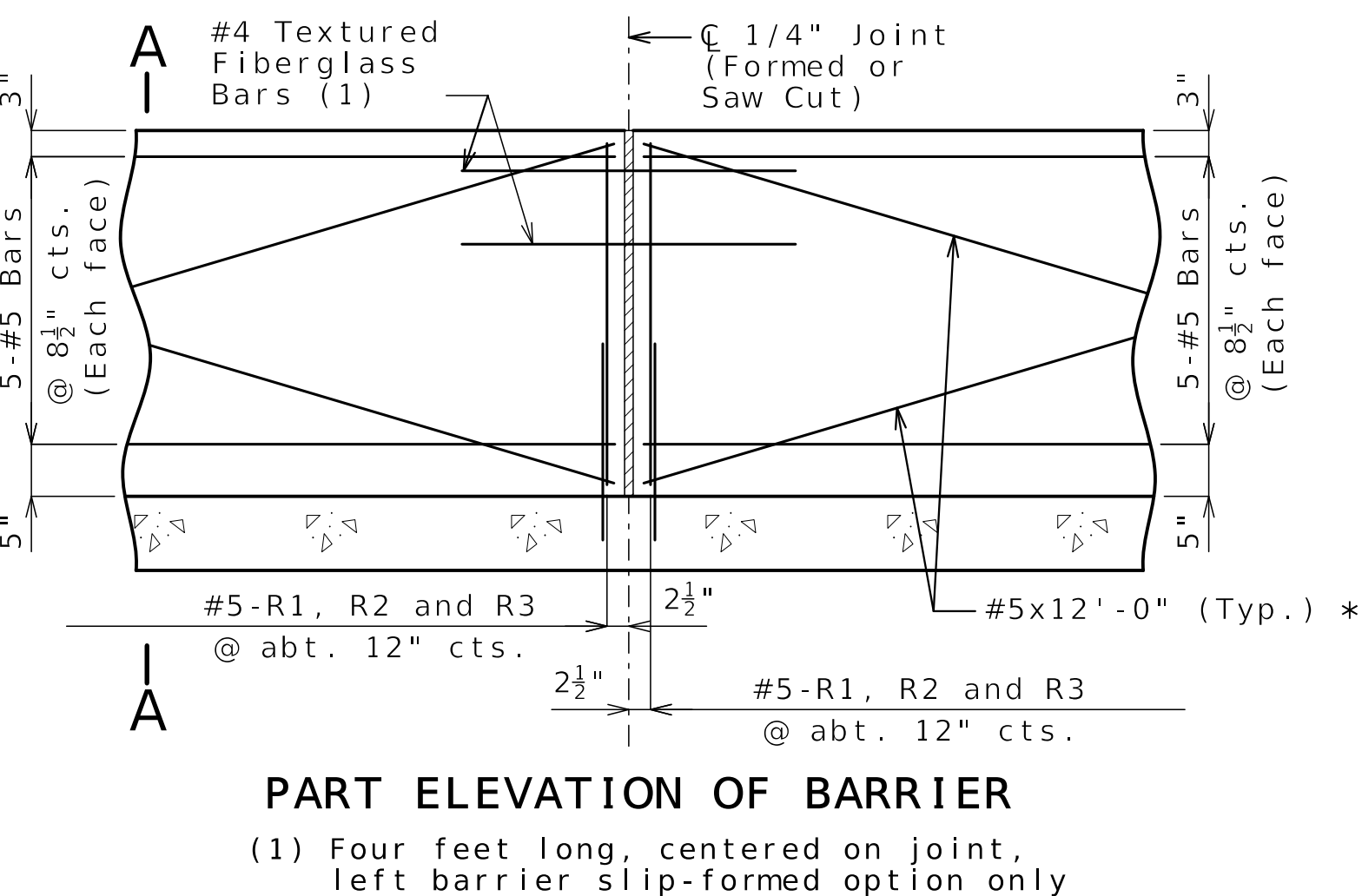
Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.

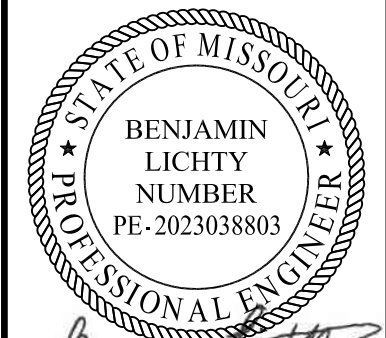
Plastic waterstop shall not be used with saw cut joints.

For Form Liner and Aesthetic Stain details of right barrier not shown, see Sheet No. B04-31.

For Light Blister details, see Sheet No. B04-30.



TYPE D BARRIER



Benjamin Lichty
04-11-2025

DATE PREPARED
04/11/2025

ROUTE 1-70 STATE MO

DISTRICT BR SHEET NO. B04-28

COUNTY JACKSON

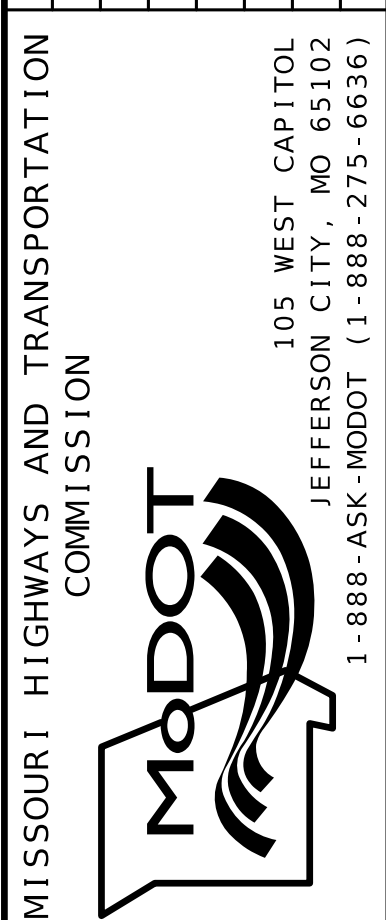
JOB NO. J411486D

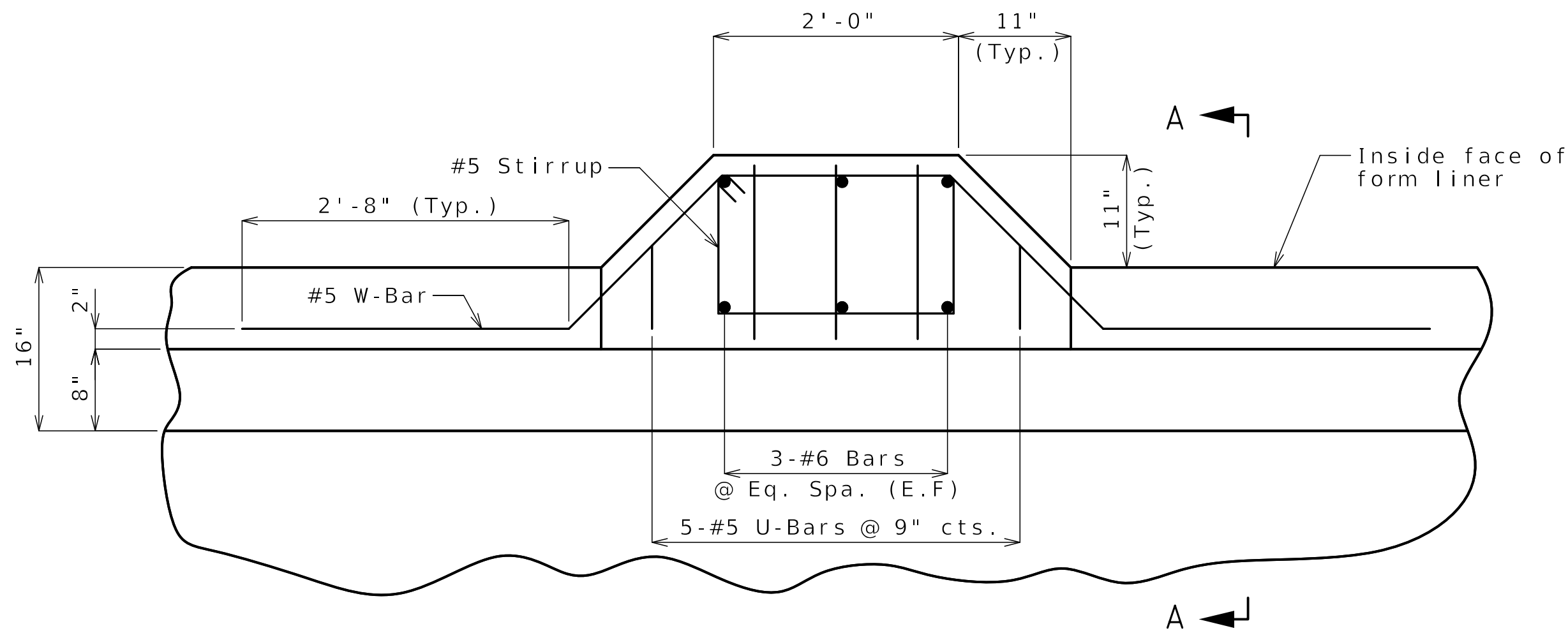
CONTRACT ID. 240807-C01

PROJECT NO.

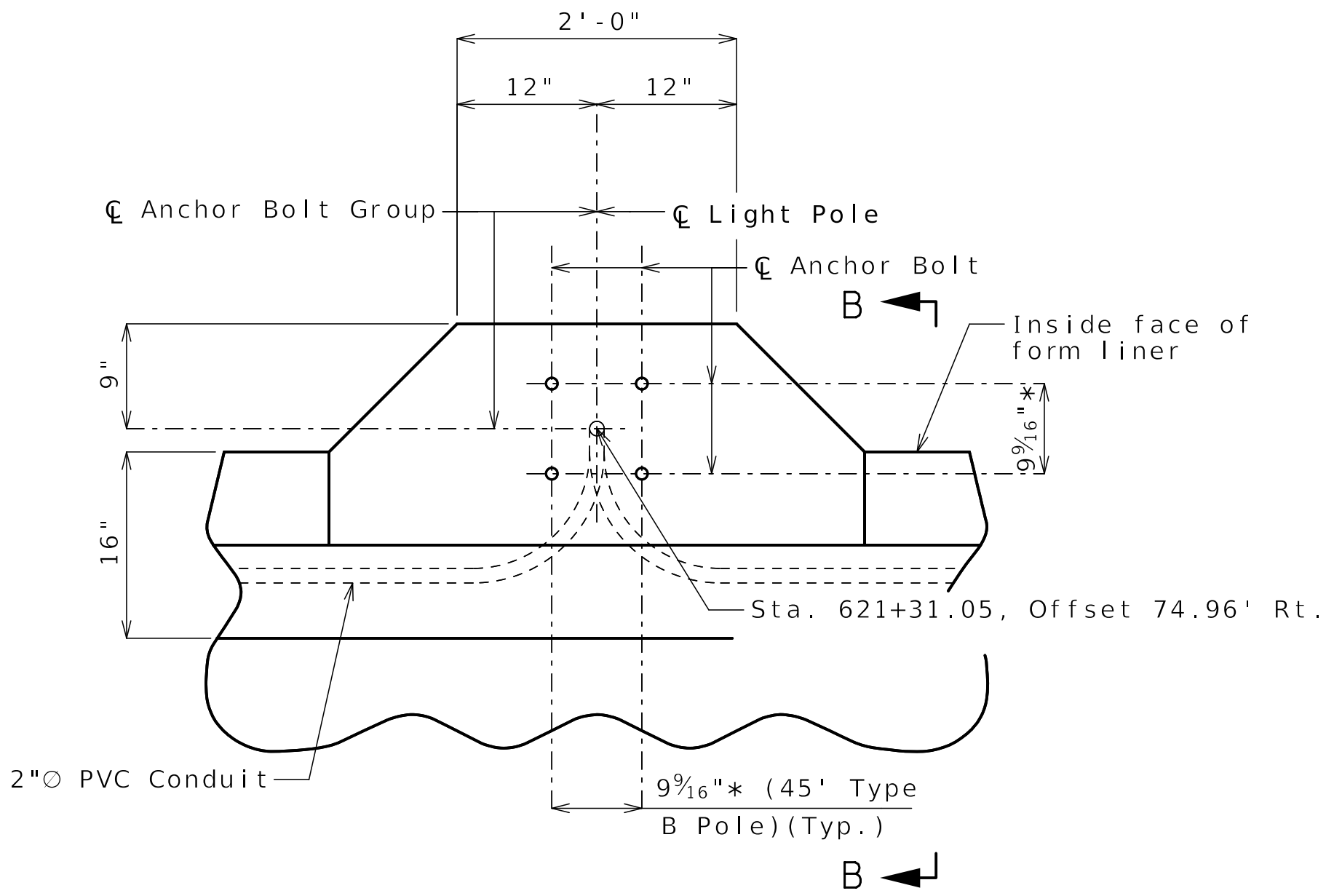
BRIDGE NO. A9632

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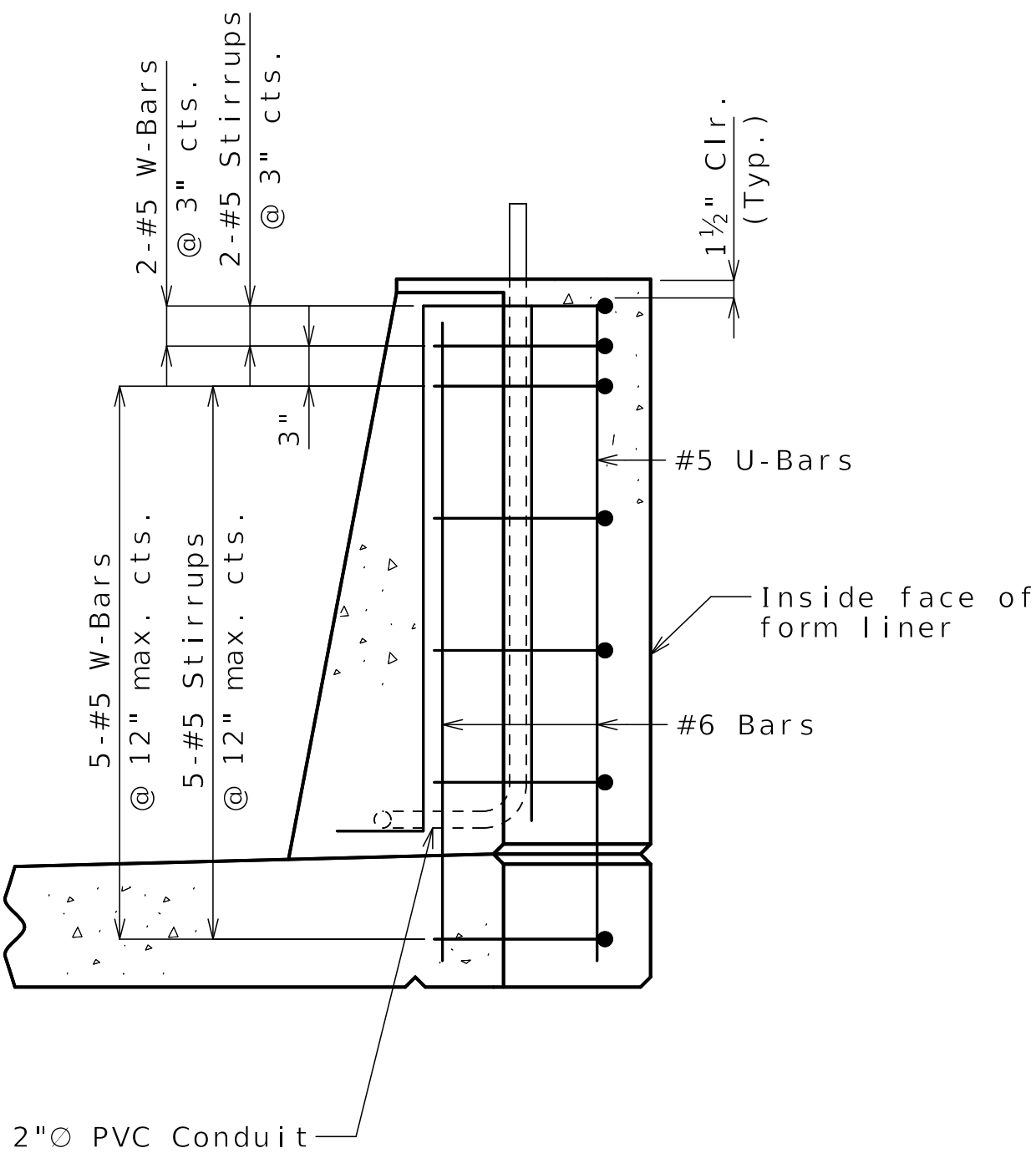




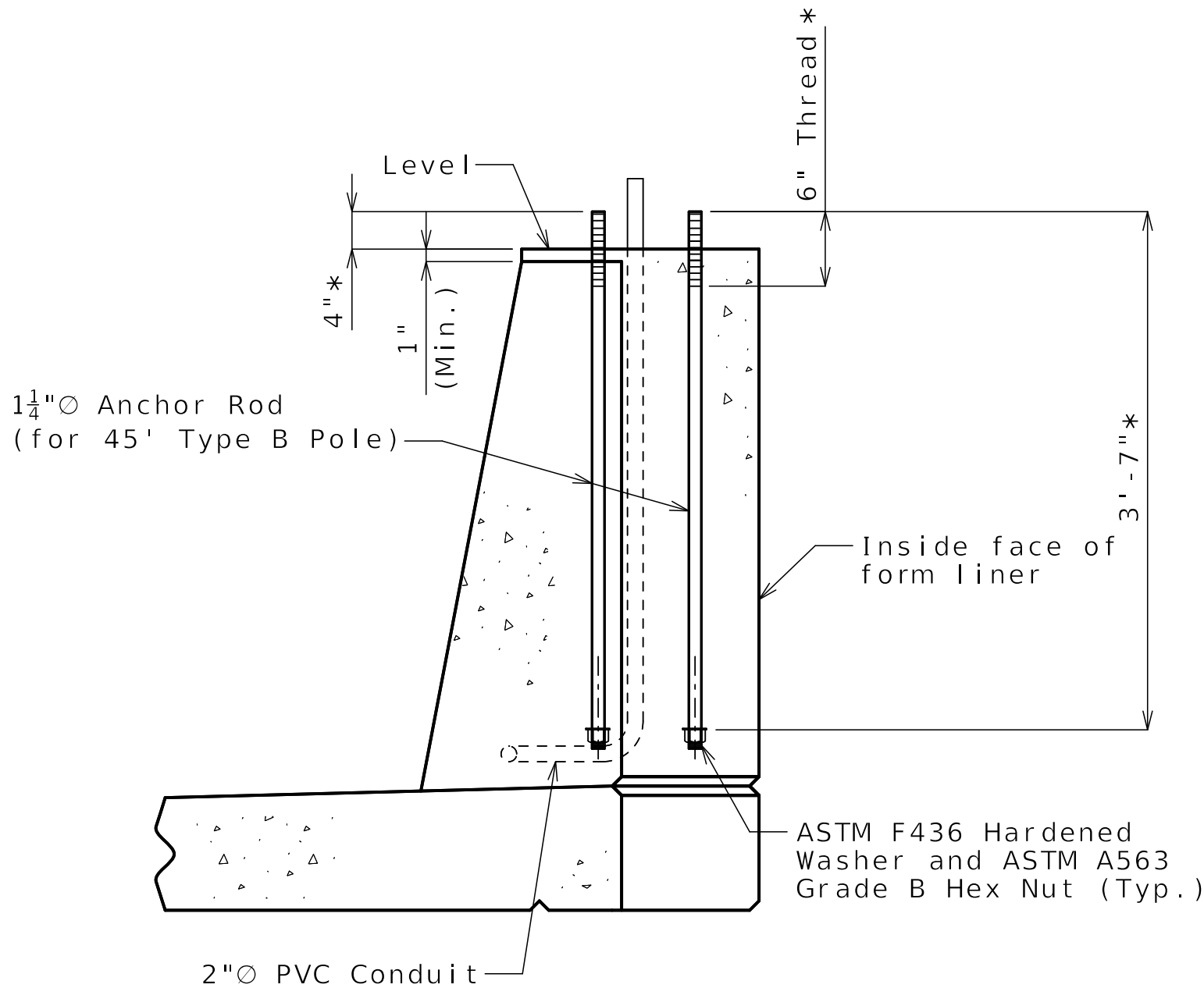
LIGHT POLE MOUNTING PLAN SHOWING REINFORCEMENT



LIGHT POLE MOUNTING PLAN



SECTION A-A

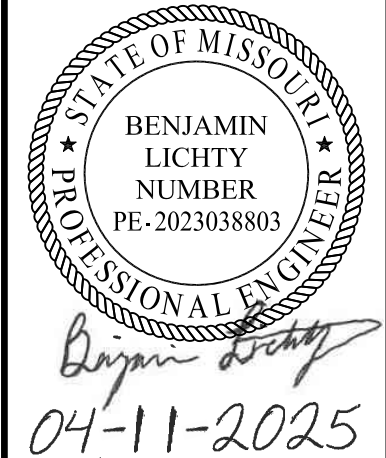


SECTION B-B

Released For Construction
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Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

Notes:
* Contractor shall confirm dimension with light pole manufacturer before setting anchor bolts.
Anchor bolts and nuts shall be ASTM F1554 Grade 55. Anchor bolts, nuts and washers shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C or ASTM B695, Class 55.
Top of light standard supports shall be made horizontal; anchor rods shall be placed vertically.
Contractor has the option to splice vertical bars with mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 710.
For locations of light blister, see Sheets No. B04-24 and B04-25.
For Form Liner and Aesthetic Stain Details not shown, see Sheet No. B04-31.

LIGHT BLISTER DETAILS



| | |
|-----------------------------|---------------------|
| DATE PREPARED 04/11/2025 | |
| ROUTE 1-70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-30 |
| COUNTY JACKSON | |
| JOB NO. J411486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |
| BRIDGE NO. A9632 | |

| DATE | DESCRIPTION |
|----------|-----------------------|
| 04/11/25 | REV 0 - RFC SUBMITTAL |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

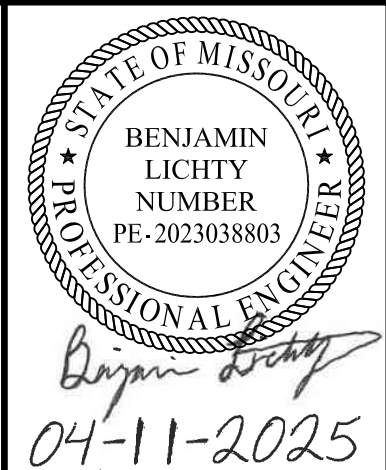
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

CLARKSON RADMACHER JOINT VENTURE

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

HNTB



| | |
|-----------------------------|---------------------|
| DATE PREPARED 04/11/2025 | |
| ROUTE I - 70 | STATE MO |
| DISTRICT BR | SHEET NO. B04-31 |
| COUNTY JACKSON | |
| JOB NO. J411486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |

| |
|---------------------|
| BRIDGE NO. A9632 |
|---------------------|

| DESCRIPTION | DATE |
|-----------------------|----------|
| REV 0 - RFC SUBMITTAL | 04/11/25 |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

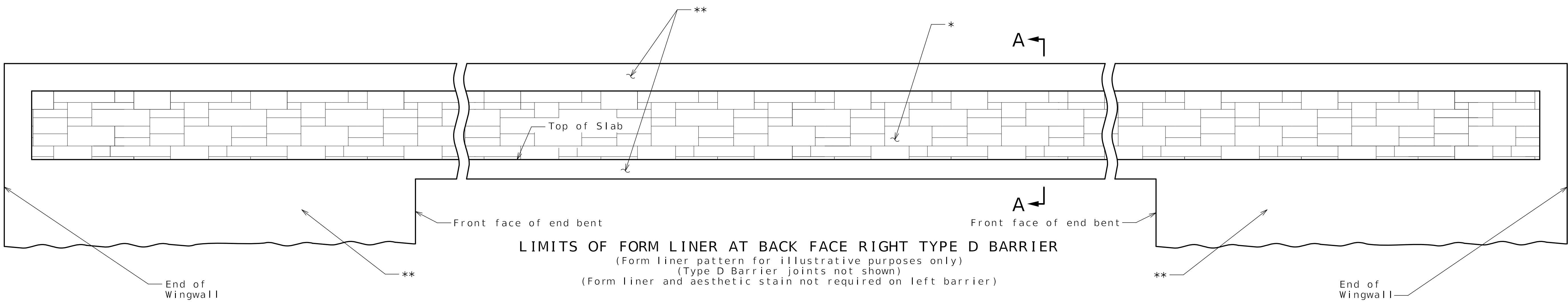
MoDOT

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



Form Liner and Aesthetic Concrete Stain for bridges are not a part of the base contract and are not yet contracted for this Project with MoDOT.

General Notes:

**Concrete and masonry protective coating and sacrificial graffiti protective coating shall be applied in accordance with Sec 711 to surfaces to receive form liner treatment and as noted in details on this sheet.

Protective coatings shall be compatible with Aesthetic Concrete Stain.

Concrete Form Liner Notes:

Form liner shall be constructed in accordance with Special Provisions.

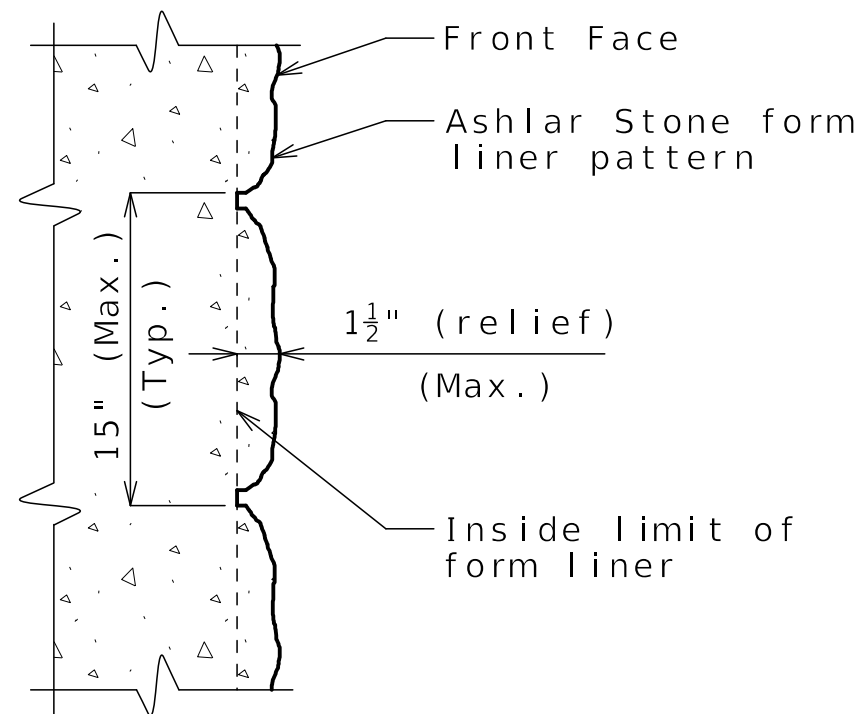
The following is a list of form liner manufacturers and types which may be used. Depth of relief for all form liner pattern's shall vary up to 1 1/2". The height of any single "stone" shall be 15" maximum.

- Scott System, Inc.: Form liner pattern #167 "Ashlar Stone"
- Fitzgerald Formliners: Form liner pattern #16986 "Ashlar Stone"
- Greenstreak: Form liner pattern #330 "Ashlar Stone"
- Spec Formliners: Form liner pattern #1515 "Ashlar Stone"
- Customrock: Form liner pattern #12020 "Tollway Ashlar"
- An approved equal

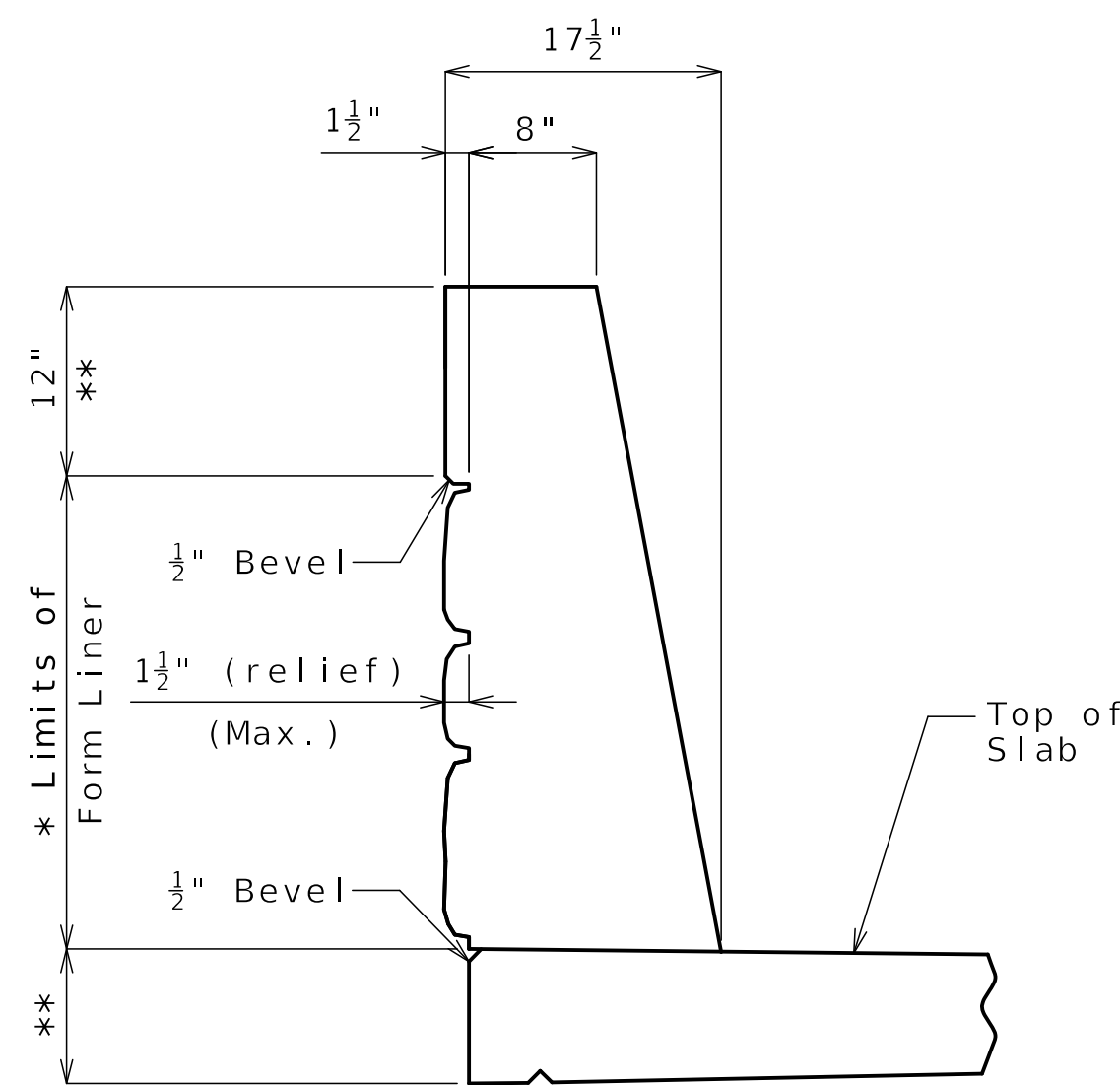
Aesthetic Concrete Stain Notes:

* Surface to receive Aesthetic Concrete Stain. The color shall be Federal Standard #37150.

Aesthetic Concrete Stain shall be applied in accordance with Sec 711 as shown in the plans.

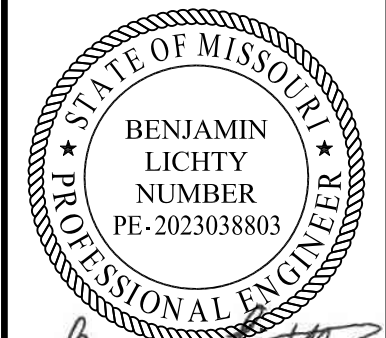


FORM LINER DETAIL



SECTION A-A

Released For Construction
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Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson



04-11-2025

DATE PREPARED
04/11/2025

ROUTE
1-70

STATE
MO

DISTRICT
BR

SHEET NO.
B04-32

COUNTY
JACKSON

JOB NO.
J411486D

CONTRACT ID.
240807-C01

PROJECT NO.

BRIDGE NO.
A9632

| DESCRIPTION | DATE |
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

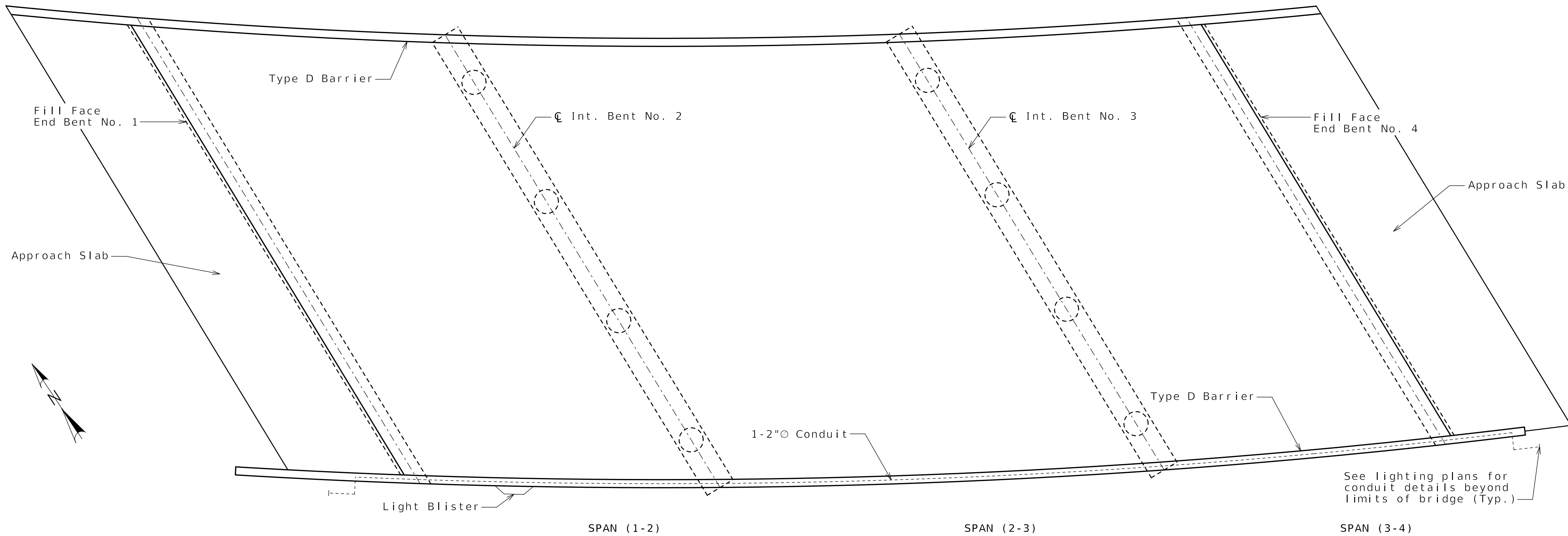
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

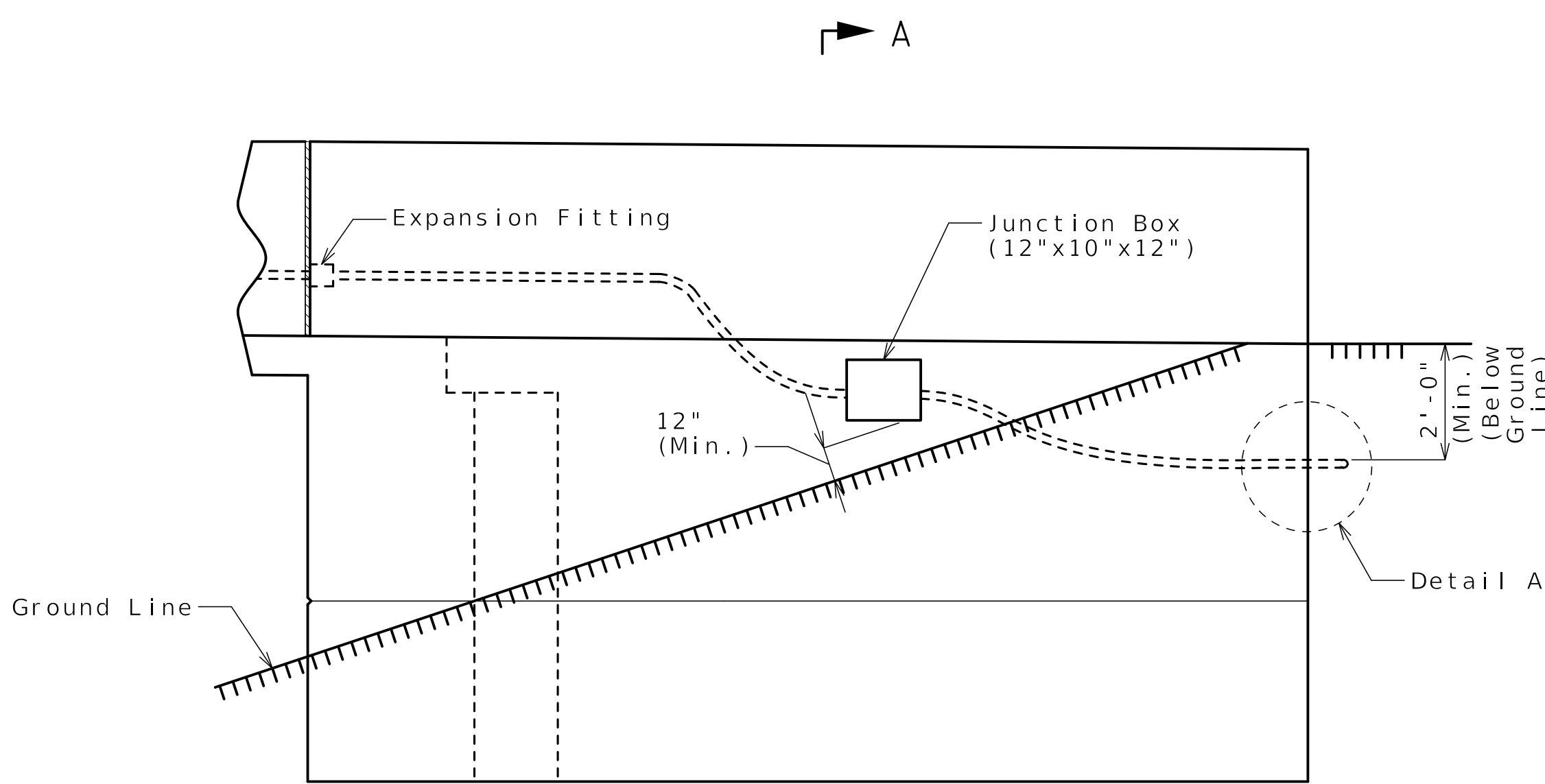
CLARKSON RADMACHER JOINT VENTURE

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

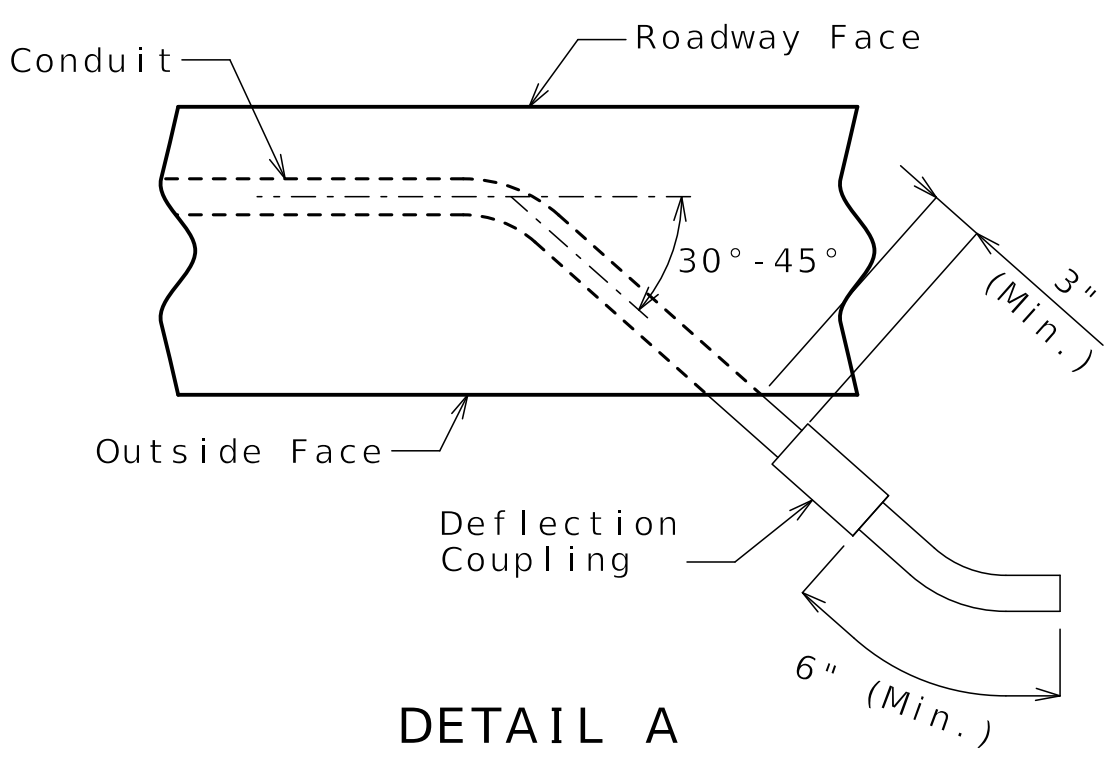
HNTB



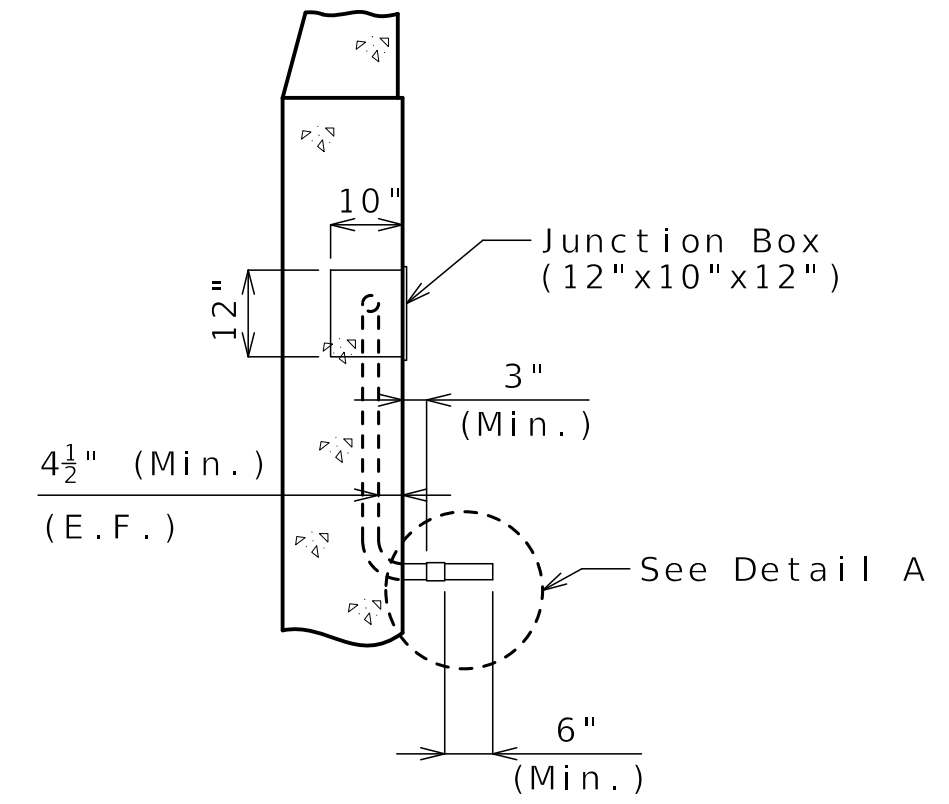
PLAN OF CONDUIT SYSTEM



PART WINGWALL ELEVATION



DETAIL A



PART SECTION A-A

Released For Construction
Not to Scale
Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

Notes:
All conduit shall be rigid non-metallic schedule 40 heavy wall PVC (polyvinyl chloride plastic) with 4½" 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.
For additional form liner details not shown see Sheet No. B04-31.

DETAILS OF CONDUIT SYSTEM ON STRUCTURE

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

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

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by providing a minimum lap splice of 29 inches for #5 bars and 44 inches for #6 bars, or by mechanical bar splice.

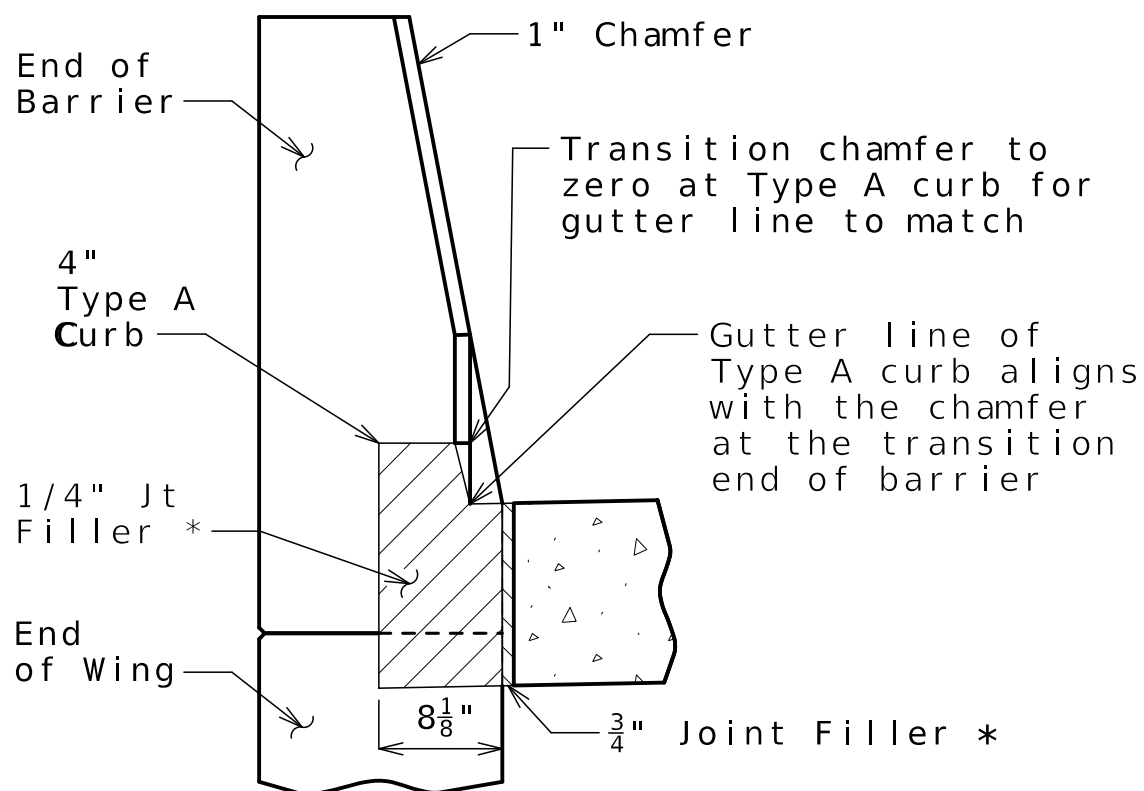
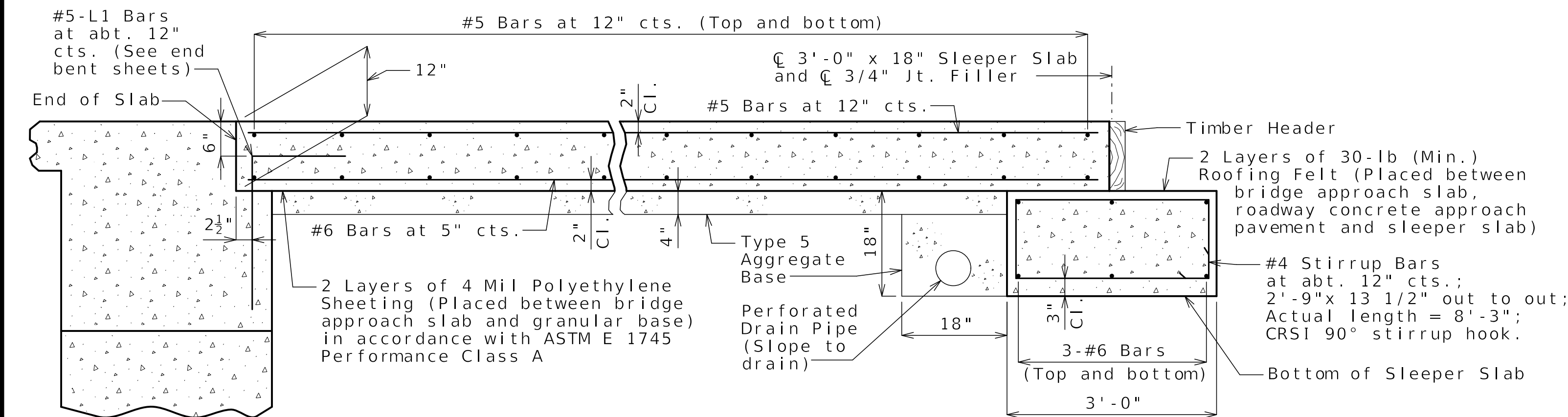
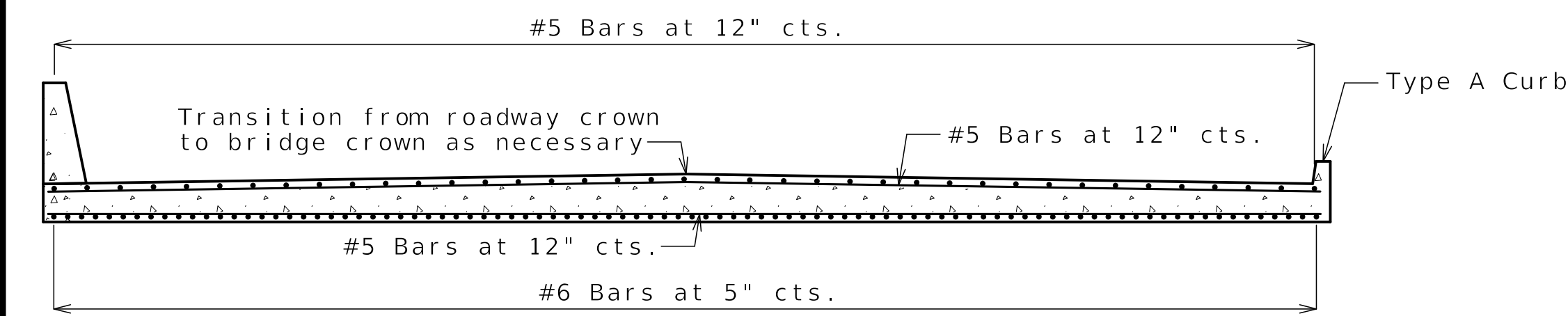
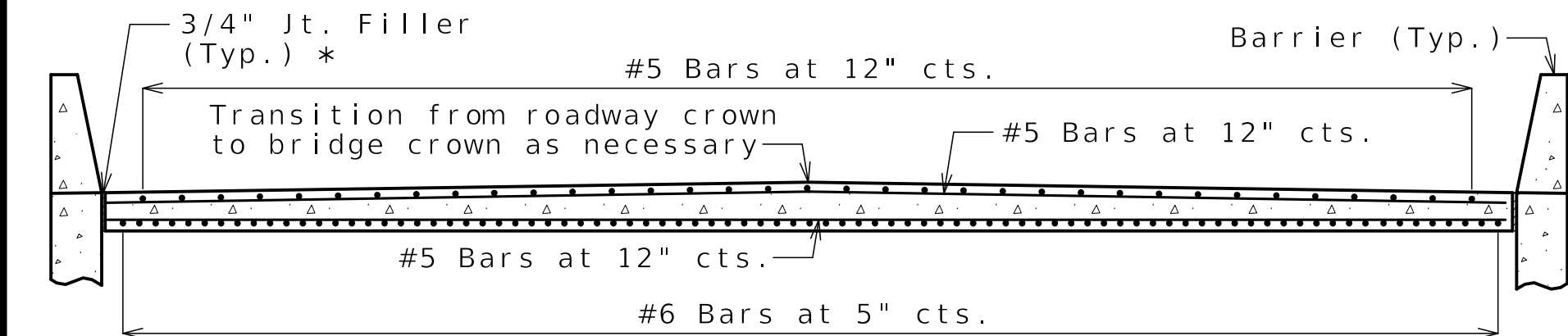
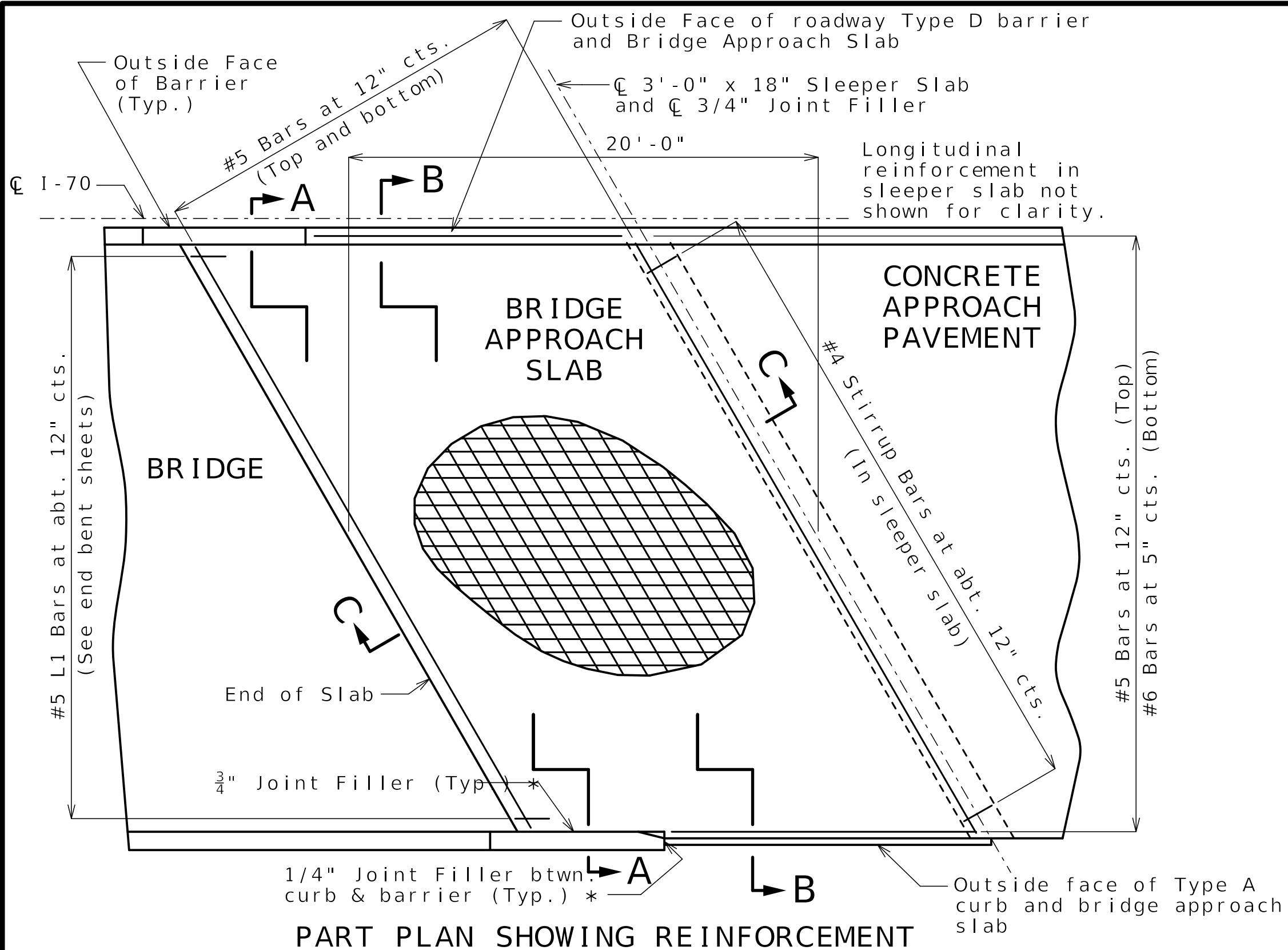
All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

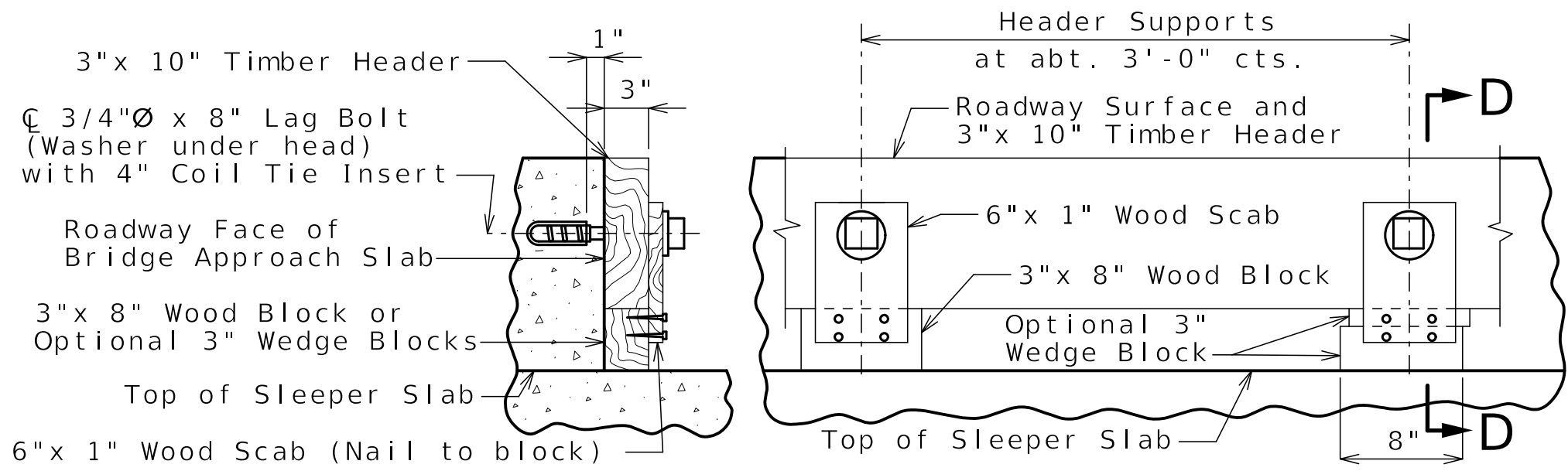
For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.



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Package: BRD-04-EB-70-Jackson



SECTION D-D
PART ELEVATION
Remove timber header when concrete pavement is placed.

BRIDGE APPROACH SLAB (MAJOR)

STATE OF MISSOURI

BENJAMIN LICHTY

NUMBER PE-2023038803

PROFESSIONAL ENGINEER

04-11-2025

DATE PREPARED

04/11/2025

DATE

ROUTE 1-70

STATE MO

DISTRICT BR

SHEET NO. B04-33

COUNTY JACKSON

JOB NO. J4I1486D

CONTRACT ID. 240807-C01

PROJECT NO.

BRIDGE NO. A9632

DESCRIPTION

REV 0 - RFC SUBMITTAL

DATE

04/11/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

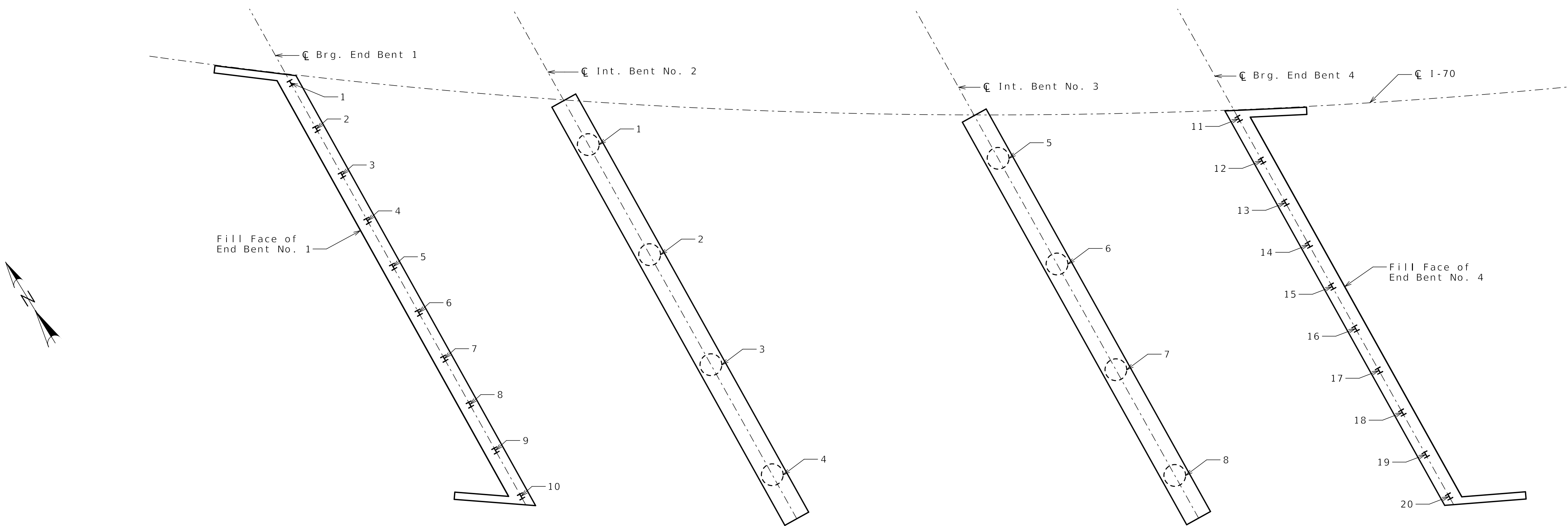
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE KANSAS CITY, MO 64105-1310

CERTIFICATE OF AUTHORITY NO. 001270

HNTB



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.) | |
| | | | | | End Bent No. 1 |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| | | | | | |
| | | | | | End Bent No. 4 |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| | | | | | |
| | | | | | |

| As-Built Drilled Shaft Data | | | | |
|-----------------------------|---------------------------|-----------------------|-------------------------------|-------------------------|
| Shaft No. | Top of Sound Rock (Elev.) | Tip of Casing (Elev.) | Bottom of Rock Socket (Elev.) | Remarks |
| | | | | Intermediate Bent No. 2 |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| | | | | Intermediate Bent No. 3 |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| | | | | |
| | | | | |

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.)

Released For Construction
Not to Scale
Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

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

AS-BUILT PILE AND DRILLED SHAFT DATA



| | | |
|---------------|-----------|------------|
| DATE PREPARED | | 04/11/2025 |
| ROUTE | STATE | |
| I - 70 | MO | |
| DISTRICT | SHEET NO. | |
| BR | B04-34 | |
| COUNTY | | JACKSON |
| JOB NO. | | J4I1486D |
| CONTRACT ID. | | 240807-C01 |
| PROJECT NO. | | |

| | |
|------------|-------|
| BRIDGE NO. | A9632 |
|------------|-------|

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





| 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): | N/A | Atterberg Limits (LL-PL-Pi) | Moisture Content (%) | Dry Density (PCF) | UCS (tsf) |
| Visual Classification and Remarks | | | | | | | | | | | | | | | |
| 5 | 3.5 ft | X | J-1 | 5 | 6-8-12 (20) | 28 | | >4.5 | | Light to dark brown, stiff to very stiff, moist, LEAN CLAY | | | | | |
| 10 | 8.5 ft | X | J-2 | 18 | 2-4-6 (10) | 100 | | 2.0 | | - becomes stiff at 9' | | 47-14-33 | 217 | | |
| 15 | 12.6 ft | | C-1 | 30 | | 100 | 33 | | | 12.6 855.7 | | | | | |
| | 15.1 ft | | C-2 | 60 | | 100 | 78 | | | 14.1 854.2 | | | | | |
| 20 | 20.1 ft | | C-3 | 60 | | 100 | 0 | | | Shale/claystone, highly weathered, gray, soft | | | | | |
| 25 | 25.1 ft | | C-4 | 60 | | 100 | 45 | | | - becomes moderately hard, no clay at 16.6' | | | | | |
| 30 | 30.1 ft | | C-5 | 60 | | 100 | 82 | | | - becomes slightly weathered at 30.5' | | | | | |
| 35 | 35.1 ft | | C-6 | 60 | | 100 | 85 | | | 35.9 832.4 | | | | | |
| | | | | | | | | | | Limestone, weathered, light to dark gray, moderately hard | | | | | |

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



| Geotechnical Log | | | | | | | | | | | | | | | |
|------------------|-----------------|-------------|-----------|----------------------|-----------------------|------------|---------|------------------|-------------|---|-----|-----------------------------|----------------------|-------|----------------------|
| 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 | | Atterberg Limits (LL-PL-Pi) | Lab | | |
| | | | | | | | | | | During Drilling (ft): | N/A | | After Drilling (ft): | N/A | After __ Hours (ft): |
| | 37.5 ft | | C-6 | 60 | | 100 | | | | Visual Classification and Remarks | | | | | |
| 40 | 40.1 ft | | | | | | | | | Limestone, weathered, light to dark gray, moderately hard | | | 1.2 | 146.5 | 286 |
| | 40.6 ft | | C-7 | 24 | | 100 | 96 | | | 40.1 Shale, dark gray, hard, calcareous, fresh | | | | | |
| | | | | | | | | | | Limestone, weathered, light to dark gray, moderately hard | | | 0.6 | 165.9 | 1503 |
| | | | | | | | | | | 42.1 Bottom of Boring at 42.1' Boring backfilled with cuttings 10/29/2024 | | | | | |
| 45 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Notes:
For locations of borings, see Sheet No. B04-02
and Geotechnical Report.

BORING LOGS









Sheet No. B04-36 of B04-41

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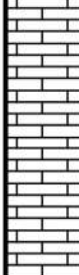


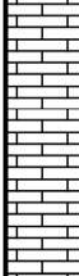
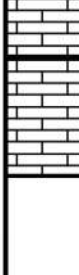


| Geotechnical Data | | | | | | | | | | Lab | | | | | | | | |
|-------------------|-----------------|-------------|-----------|----------------------|-----------------------|------------|---------|------------------|-------------|---|-----|--|----------------------|-------------------|-----------|--|--|--|
| 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 | | Atterberg Limits (LL-PL-P _I) | Moisture Content (%) | Dry Density (PCF) | UCS (tsf) | | | |
| | | | | | | | | | | During Drilling (ft): | | | | | | | | |
| | | | | | | | | | | After Drilling (ft): | N/A | | | | | | | |
| | | | | | | | | | | After __ Hours (ft): | N/A | | | | | | | |
| | | | | | | | | | | Visual Classification and Remarks | | | | | | | | |
| | | | | | | | | | | <div>Dark brown, soft, moist, ORGANIC TOPSOIL 0.5866.3 Light brown, very stiff, moist, LEAN CLAY, some organics</div> | | | | | | | | |
| 5 | 3.5 ft | X | J-1 | 6 | 9-6-6 (12) | 33 | | >4.5 | | | | | | | | | | |
| 10 | 8.5 ft | X | J-2 | 6 | 3-3-5 (8) | 33 | | | | | | 40-21-19 | 14.4 | | | | | |
| 15 | 13 ft | █ | U-1 | 24 | | 100 | | <0.5 | | 14.0852.8 | | 53-17-36 | 27.2 | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 | 18.5 ft | X | J-3 | 17 | 6-26-50/5" (76/11") | 100 | | >4.5 | | Light brown, soft, moist, FAT CLAY, organics with gravel 18.5848.3 | | | | | | | | |
| 25 | 23.5 ft | X | J-4 | 8 | 39-50/2" (50/2") | 100 | | >4.5 | | Shale, highly weathered, dark gray, soft | | | | | | | | |
| 30 | 28.5 ft | - | J-5 | 5 | 50/5" (5") | 100 | | >4.5 | | | | | | | | | | |
| | 33.5 ft | X | J-6 | 8 | 45-50/2" (50/2") | 100 | | >4.5 | | | | | | | | | | |



| 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): | 17.0 |  | Atterberg Limits (LL-PL-P) | Moisture Content (%) | Dry Density (PCF) |
| Visual Classification and Remarks | | | | | | | | | | After Drilling (ft): | N/A | After __ Hours (ft): | | | |
| 35 | 35.5 ft | | C-1 | 7 | | 100 | 0 | |  | Shale, highly weathered, dark gray, soft | 831.6 | | | | |
| | | | C-2 | 60 | | 100 | 87 | | | Limestone, weathered, gray, moderately hard, calcareous | | | | | |
| 40 | 40.6 ft | | C-3 | 60 | | 100 | 45 | |  | 36.2 | 830.6 | 9.9 | 123.1 | 69 | |
| | | | | | | | | | | Shale, highly weathered, dark gray, soft, some fossils | | | | | |
| 45 | 45.6 ft | | C-4 | 60 | | 100 | 10 | |  | 37.7 | 829.1 | | | | |
| | | | | | | | | | | Limestone, slightly weathered, gray, moderately hard, calcareous | | | | | |
| 50 | 50.6 ft | | C-5 | 60 | | 100 | 70 | |  | - becomes weathered at 40' | 825.2 | 2.1 | 157.9 | 510 | |
| | | | | | | | | | | 41.6 | 825.2 | Limey shale, slightly weathered to weathered, dark gray, soft to moderately hard, vuggy seams | | | |
| 55 | 55.6 ft | | C-6 | 60 | | 100 | 72 | |  | - becomes highly weathered at 45' | | | | | |
| | | | | | | | | | | | | | | | |
| 60 | | | | | | | | |  | - becomes slightly weathered to weathered at 50' | 815.2 | 0.6 | 164.0 | 1482 | |
| | | | | | | | | | | | | | | | |
| 65 | | | | | | | | |  | Limestone, slightly weathered, light gray, calcareous, some shale eyes | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | 58.5 | 808.3 | | | | |
| | | | | | | | | | | Shaley limestone, weathered, dark gray, pitted | | | | | |
| | | | | | | | | | | 60.6 | 806.2 | | | | |
| | | | | | | | | | | Bottom of Boring at 60.6' | | | | | |
| | | | | | | | | | | Boring backfilled with cuttings 11/1/2024 | | | | | |

Notes:
For locations of borings, see Sheet No. B04-02
and Geotechnical Report.

BORING LOGS

| Geotechnical Data | | | | | | | | | | | Lab | | | | | |
|---|-----------------|-------------|-----------|----------------------|-----------------------|------------|---------|------------------|---|---|----------------------|-----------------------------|----------------------|-------------------|-----------|--|
| 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 | | Atterberg Limits (LL-PL-Pi) | Moisture Content (%) | Dry Density (pcf) | UCS (tsf) | |
| | | | | | | | | | | During Drilling (ft): | N/A | | | | | |
| | | | | | | | | | | | After Drilling (ft): | N/A | | | | |
| | | | | | | | | | | | After __ Hours (ft): | N/A | | | | |
| Visual Classification and Remarks | | | | | | | | | | | | | | | | |
| 40 | 40.1 ft | C-2 | 60 | | | 100 | | |  | Shale, slightly weathered, gray to 38.5 dark gray, calcareous 828.8 | | | 1.7 | 159.1 | 890 | |
| | | | | | | | | | | Limestone with fossils, slightly weathered, gray, hard, calcareous, some shale lens's | | | | | | |
| 45 | 45.1 ft | C-3 | 58 | | | 97 | 29 | |  | 42.5 824.8 | | | | | | |
| | | | | | | | | | | Shale, thinly bedded, highly weathered, dark gray, soft, moist | | | | | | |
| 50 | 50.1 ft | C-4 | 56 | | | 93 | 39 | |  | - shale, slightly weathered to weathered at 47.5' | | | 3.9 | 143.0 | 68 | |
| | | | | | | | | | | | | | | | | |
| 55 | 55.1 ft | C-5 | 60 | | | 100 | 92 | |  | 51.1 816.2 | | | | | | |
| | | | | | | | | | | Limestone, slightly weathered, gray, hard | | | | | | |
| 60 | | C-6 | 60 | | | 100 | 93 | |  | - limestone, fresh to slightly weathered at 54' | | | 0.6 | 159.7 | 602 | |
| | | | | | | | | | | | | | | | | |
| 65 | | | | | | | | |  | 58.0 809.3 | | | | | | |
| | | | | | | | | | | Shale, slightly weathered, gray, hard | | | | | | |
| 70 | | | | | | | | |  | 60.1 807.2 | | | | | | |
| | | | | | | | | | | Shale, slightly weathered, gray, hard | | | | | | |
| Bottom of Boring at 60.1' | | | | | | | | | | | | | | | | |
| Boring backfilled with cuttings 11/1/2024 | | | | | | | | | | | | | | | | |

B A9632 B04-40-J4I1486D.dgn 1:14:30 PM 4/10/2025



SOIL BORING NUMBER: Jck_B3_2

Page 1 of 1

PROJECT Improve I 70 KC Design Build NORTHING/EASTING 1058387.6 / 2779278.1
DRILLING FIRM PPI DRILLER Josh Starkey DATE STARTED 10/29/2024
LOGGED BY Cameron Dupont DATE COMPLETED 10/29/2024
SURFACE ELEVATION 866.3' 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) | |
| | 1 ft | | J-1 | 9 | 8-10-9 (19) | 50 | | 3.5 | | | | | | | | 1.0 Brown, dry, TOPSOIL, trace gravel 865.3 |
| | 3.2 ft | | J-2 | 13 | 4-3-2 (5) | 72 | | 4.0 | | | | | | | | Dark brown, hard, moist, FAT CLAY |
| 5 | | | | | | | | | | | | | | | | |
| | 8 ft | | U-1 | 24 | | | | 3.5 | | | | 39-18-21 | 20.4 | 107.6 | 2.11 | - becomes wet, soft to stiff at 10' |
| 10 | | | | | | | | | | | | | | | | |
| | 13 ft | | J-3 | 18 | 2-2-3 (5) | 100 | | 0.5 | | | | | | | | 18.0 848.3 |
| 15 | | | | | | | | | | | | | | | | Clayey-shale, highly weathered, grayish brown, mottled, stiff to hard 846.3 |
| | 18 ft | | J-4 | 18 | 7-15-21 (36) | 100 | | 3.5 | | | | | | | | 20.0 |
| 20 | 20 ft | | C-1 | 60 | | 100 | 47 | | | | | | | | | Shale, highly to moderately weathered, gray to dark gray, soft to moderately hard, moist |
| | | | C-2 | 60 | | 100 | 75 | | | | | | | | | |
| 25 | 25 ft | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | 30.0 836.3 |
| | | | | | | | | | | | | | | | | Bottom of Boring at 30' |
| | | | | | | | | | | | | | | | | Boring backfilled with cuttings 10/29/2024 |
| 35 | | | | | | | | | | | | | | | | |



SOIL BORING NUMBER: Jck_E4

Page 1 of 2

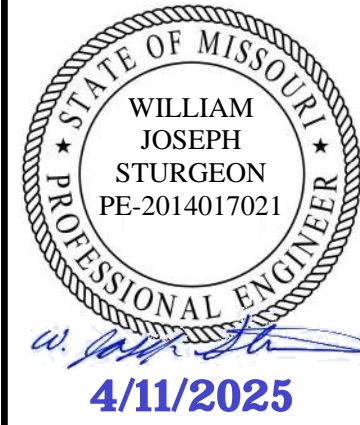
PROJECT Improve I 70 KC Design Build NORTHING/EASTING 1058335.9 / 2779379.9
DRILLING FIRM PPI DRILLER Josh Starkey DATE STARTED 10/30/2024
LOGGED BY Cameron Dupont DATE COMPLETED 10/30/2024
SURFACE ELEVATION 873.1' RIG TYPE CME-55
METHOD Mud Rotary TOOLING 4-1/2" Continuous Flight Auger

| 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) | |
| | | | | | | | | | | | | | | | | 0.8 TOPSOIL 872.3 |
| | 3.5 ft | | J-1 | 14 | 4-4-6 (10) | 78 | | 4.0 | | | | | | | | 1.1 FILL, GRAVEL, rough drilling 872 |
| 5 | | | | | | | | | | | | | | | | FILL, brown, stiff to medium stiff, dry, CLAY, mottling, some gravel, trace organics |
| | 8 ft | | U-1 | 12 | | 50 | | | | | | 44-18-26 | 20.2 | | | |
| 10 | | | | | | | | | | | | | | | | 10.0 863.1 |
| | | | | | | | | | | | | | | | | Dark brown to black, soft to medium stiff, moist, FAT CLAY, with some gravel |
| | 13.5 ft | | J-2 | 15 | 3-4-5 (9) | 83 | | 2.0 | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| | 18.5 ft | | J-3 | 18 | 3-3-5 (8) | 100 | | 1.5 | | | | | | | | 40-17-23 23.8 |
| 20 | | | | | | | | | | | | | | | | |
| | 23.5 ft | | J-4 | 18 | 2-3-4 (7) | 100 | | 1.0 | | | | | | | | 23.5 849.6 |
| 25 | | | | | | | | | | | | | | | | Gray-brown, soft, FAT CLAY, mottled with iron stains |
| | 28.5 ft | | J-5 | 9 | 40-50/3" (50/5") | 100 | | | | | | | | | | 28.8 844.3 |
| 30 | 29.3 ft | | C-1 | 12 | | 100 | 58 | | | | | | | | | Shale, thinly bedded, highly weathered, dark gray to gray, soft |
| | 30.3 ft | | C-2 | 60 | | 100 | 38 | | | | | | | | | - oil observed in wash boring water at surface from 30.3' to 35.3' |
| | | | | | | | | | | | | | | | | - slightly weathered to highly weathered at 30.5' |
| 35 | 35.3 ft | | C-3 | 48 | | 100 | 40 | | | | | | | | | |

Released For Construction
Not to Scale
Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

Notes:
For locations of borings, see Sheet No. B04-02 and Geotechnical Report.

BORING LOGS



| | |
|-----------------------------|-----------------------|
| DATE PREPARED 04/11/2025 | |
| ROUTE I - 70 | STATE MO |
| DISTRICT BR | SHEET NO. B04 - 39 |
| COUNTY JACKSON | |
| JOB NO. J411486D | |
| CONTRACT ID. 240807-C01 | |
| PROJECT NO. | |
| BRIDGE NO. A9632 | |

| 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



| Borehole Data | | | | | | | | Lab | | | | | | | |
|---------------|-----------------|-------------|-----------|----------------------|--------------------------|------------|---------|------------------|---|-----------------------|-----|--------------------------------|-------------------------|-------------------|-----------|
| 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 | | Atterberg Limits (LL-PL-Pi) | Moisture Content (%) | Dry Density (PCF) | UCS (tsf) |
| | | | | | | | | | | During Drilling (ft): | N/A | | | | |
| | | C-3 | 48 | | | 100 | | | <div>Shale, thinly bedded, highly weathered, dark gray to gray, soft</div> <div>Limestone, thinly bedded, slightly weathered, dark gray, calcareous, with shale lens's and fossils</div> <div>Bottom of Boring at 39.3'</div> <div>Boring backfilled with cuttings 10/30/2024</div> | | | | | | |

SOIL BORING NUMBER: Jck_W_3

| Geotechnical Data | | | | | | | | | | | | | | Lab | | | |
|-----------------------------------|-----------------|-------------|-----------|----------------------|-----------------------|------------|---------|------------------|-------------|-----------------------------|----------|-----------------------------|----------------------|-------------------|-----------|--|--|
| 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 | | Atterberg Limits (LL-PL-Pi) | Moisture Content (%) | Dry Density (PCF) | UCS (tsf) | | |
| | | | | | | | | | | During Drilling (ft): | N/A | | | | | | |
| | | | | | | | | | | After Drilling (ft): | N/A | | | | | | |
| | | | | | | | | | | After __ Hours (ft): | N/A | | | | | | |
| Visual Classification and Remarks | | | | | | | | | | | | | | | | | |
| 5 | 3.5 ft | X | J-1 | 13 | 7-8-5 (13) | 72 | | >4.5 | | 0.4 FILL, brown, stiff, dry | 884.7 | 49-19-30 | 14.4 | | | | |
| | | | | | | | | | | | | | | | | | |
| 10 | 8.5 ft | X | J-2 | 17 | 3-4-6 (10) | 94 | | 2.0 | | 8.5 | 876.6 | 55-17-38 | 28.8 | | | | |
| | | | | | | | | | | | | | | | | | |
| 15 | 13.5 ft | X | J-3 | 18 | 3-4-5 (9) | 100 | | 1.5 | | 13.5 | 871.6 | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 20 | 18.5 ft | █ | U-1 | 16 | | 67 | | | 18.5 | | 56-20-36 | 23.2 | 102.3 | 3.02 | | | |
| | | | | | | | | | | | | | | | | | |
| 25 | 23.5 ft | X | J-4 | 9 | 10-8-6 (14) | 50 | | 1.0 | 23.5 | 861.6 | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 30 | 28.5 ft | X | J-5 | | 3-2-4 (6) | | | 1.0 | 28.5 | 856.6 | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | 33.5 ft | X | J-6 | 18 | 3-2-3 (5) | 100 | | 0.25 | 33.5 | | | | | | | | |

Notes:
For locations of borings, see Sheet No. B04-02
and Geotechnical Report.

BORING LOGS



| | |
|--|--|
| PROJECT <u>Improve I 70 KC Design Build</u> | NORTHING/EASTING <u>1058382.6 / 2779420.2</u> |
| DRILLING FIRM <u>PPI</u> DRILLER <u>Josh Starkey</u> | DATE STARTED <u>10/31/2024</u> |
| LOGGED BY <u>Cameron Dupont</u> | DATE COMPLETED <u>10/31/2024</u> |
| SURFACE ELEVATION <u>885.1'</u> | RIG TYPE <u>CME-55x</u> |
| METHOD <u>Water Rotary</u> | TOOLING <u>4-1/2" Continuous Flight Auger</u> |

| Geotechnical Log Data | | | | | | | | | | Lab | | | | | | |
|-----------------------|-----------------|-------------|-----------|----------------------|-----------------------|------------|---------|------------------|-------------|---|--|--|-----------------------------|----------------------|-------------------|-----------|
| 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 | | | Atterberg Limits (LL-PL-Pi) | Moisture Content (%) | Dry Density (pcf) | UCS (tsf) |
| | | | | | | | | | | Visual Classification and Remarks | | | | | | |
| 38.5 ft | | | | | | | | | | Brown, soft, moist, FAT CLAY | | | | | | |
| 40 | | X | J-7 | 18 | 2-10-30 (40) | 100 | | | | 38.5 846.6 | | | | | | |
| | | | | | | | | | | Dark gray-brown, stiff to hard, fine grained, CLAYEY SHALE, weathered to highly weathered | | | | | | |
| | | | | | | | | | | 40.0 weathered 845.1 | | | | | | |
| | | | | | | | | | | Bottom of Boring at 40' | | | | | | |
| | | | | | | | | | | Boring backfilled with cuttings 10/31/2024 | | | | | | |
| 45 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | | | | |

Revision: 0.0
Date: 04/11/2025
Package: BRD-04-EB-70-Jackson

Notes:
For locations of borings, see Sheet No. B04-02
and Geotechnical Report.

BORING LOGS