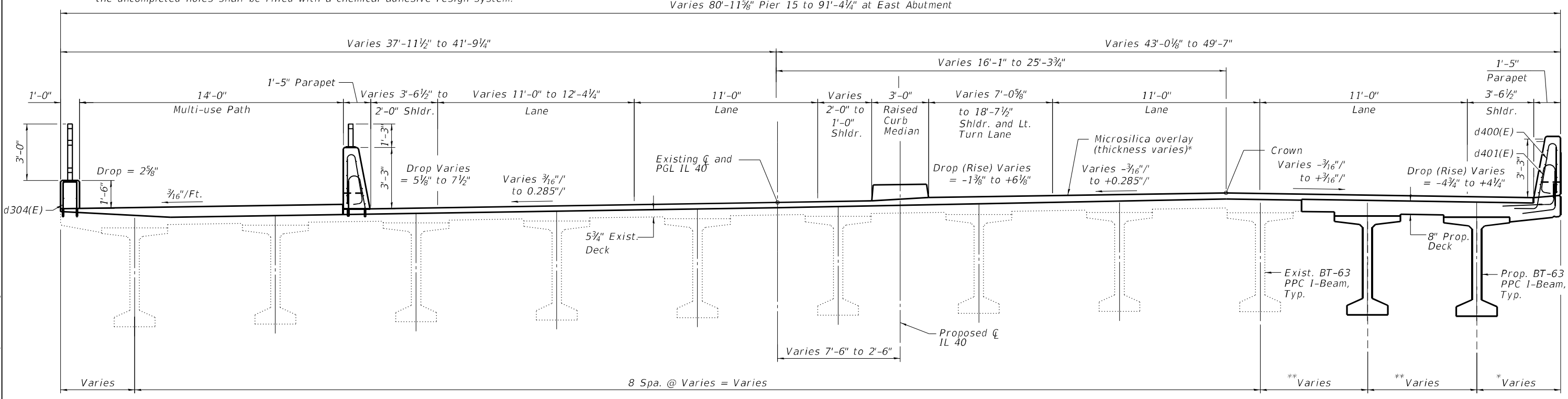


CROSS SECTION - SPAN 15
(Looking East)

Note A:
Core and Set d301(E), d303(E), and d304(E) bars according to Article 584 of the Standard Specifications. Cored holes shall be roughened or scored per manufactures recommendations. Maximum depth of hole shall not exceed 6".
The location of the existing reinforcement shall be determined by the CONTRACTOR using non-destructive methods. If existing reinforcement is encountered during the drilling operation, the holes shall be relocated and the uncompleted holes shall be filled with a chemical adhesive resin system.

* 4'-3" at Span 15
3'-10" Spans 16 and 17
** 5'-1 3/8" to 6'-6 3/4" (Span 15)
6'-6 1/8" to 6'-9 5/8" (Span 16)
6'-10" to 4'-8 1/2" (Span 17)



CROSS SECTION - SPANS 16 & 17
(Looking East)

*See screed sheets for overlay thicknesses.

NOTES:
1. See Sheets S-55 through S-66 for Elevation of Parapet and Median Barriers.

* 4'-3" at Span 15
3'-10" Spans 16 and 17
** 5'-1 3/8" to 6'-6 3/4" (Span 15)
6'-6 1/8" to 6'-9 5/8" (Span 16)
6'-10" to 4'-8 1/2" (Span 17)

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| DRAWN - SBA | REVISIONS - | |
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

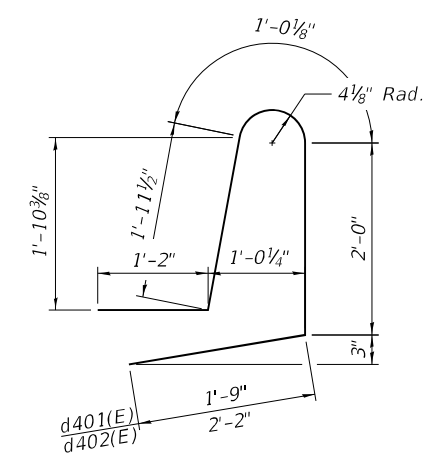
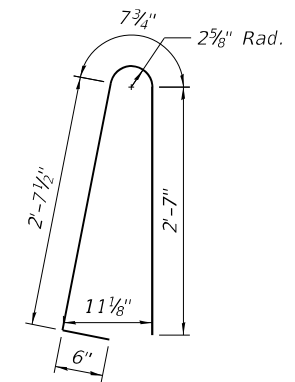
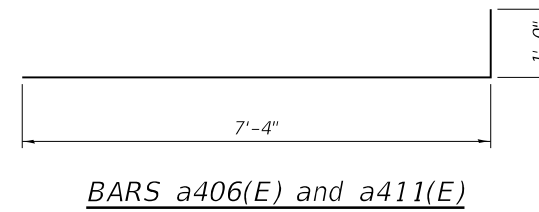
**SUPERSTRUCTURE CROSS SECTIONS IV
STRUCTURE NO. 090-0122**

SHEET 5-70 OF S-122 SHEETS

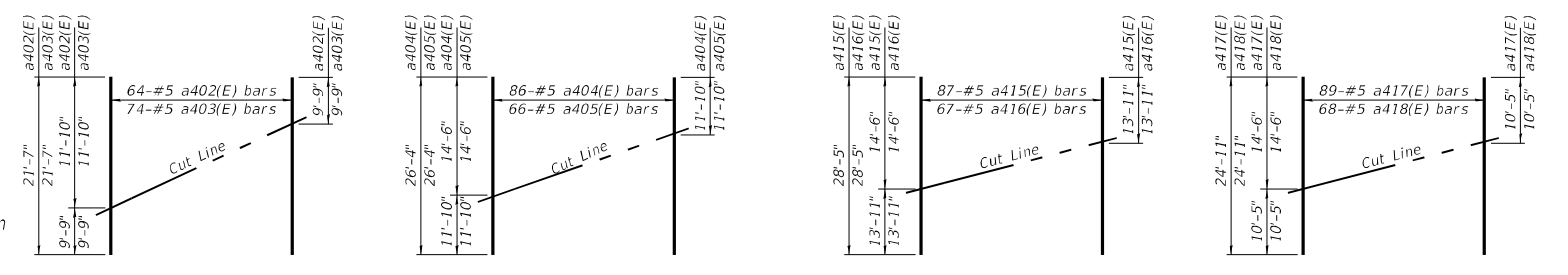
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| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 201 |
| CONTRACT NO. | | | 68F38 | |

BILL OF MATERIAL

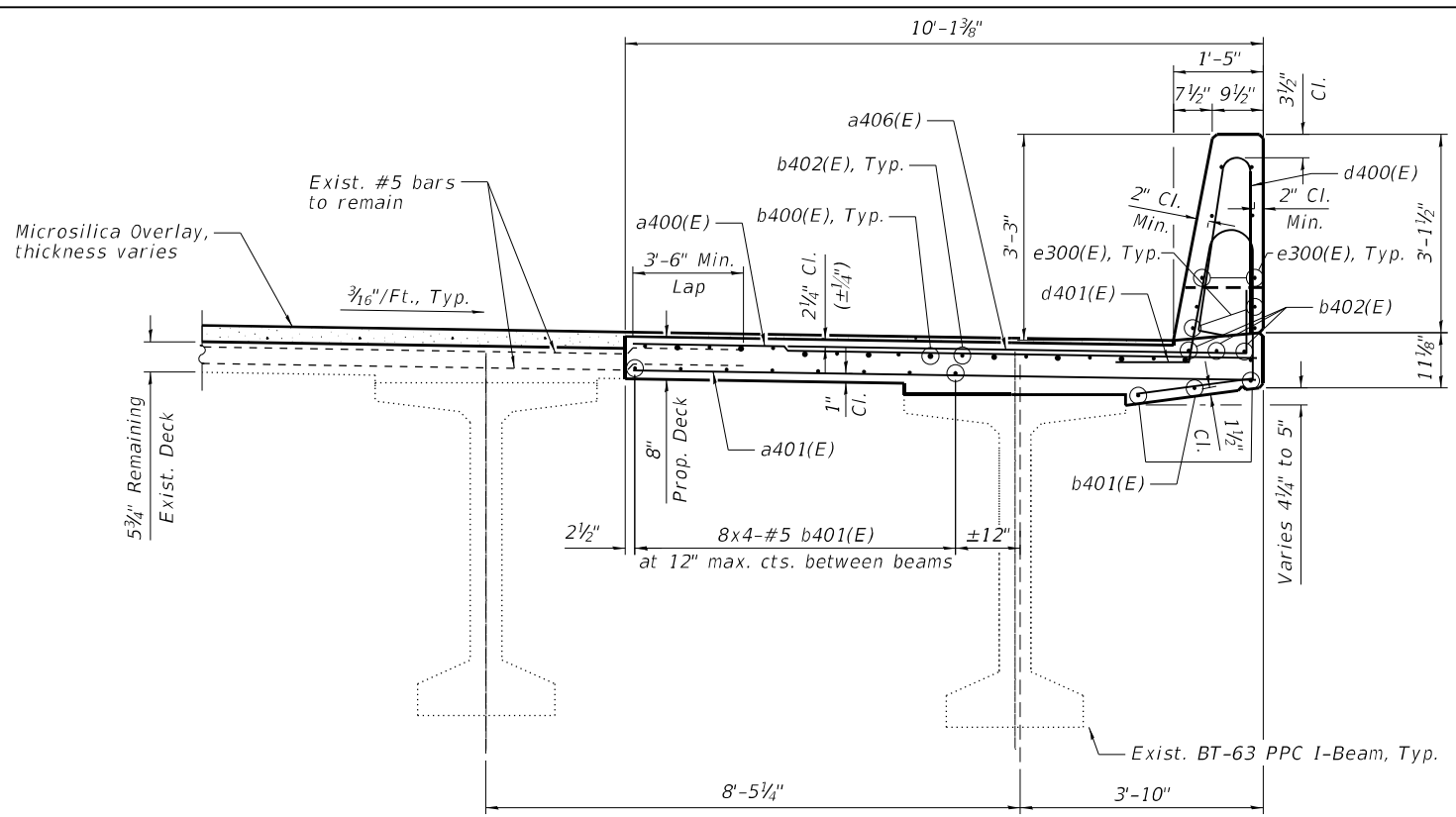
| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|--------|
| a400(E) | 104 | #5 | 9'-9" | — |
| a401(E) | 80 | #5 | 9'-9" | — |
| a402(E) | 64 | #5 | 21'-7" | — |
| a403(E) | 74 | #5 | 21'-7" | — |
| a404(E) | 86 | #5 | 26'-4" | — |
| a405(E) | 66 | #5 | 26'-4" | — |
| a406(E) | 404 | #6 | 8'-4" | — |
| a411(E) | 352 | #6 | 8'-4" | — |
| a415(E) | 87 | #5 | 28'-5" | — |
| a416(E) | 67 | #5 | 28'-5" | — |
| a417(E) | 89 | #5 | 24'-11" | — |
| a418(E) | 68 | #5 | 24'-11" | — |
| | | | | |
| b400(E) | 44 | #8 | 27'-5" | — |
| b401(E) | 44 | #5 | 21'-7" | — |
| b402(E) | 33 | #6 | 27'-6" | — |
| b403(E) | 39 | #5 | 26'-10" | — |
| b404(E) | 52 | #6 | 30'-11" | — |
| b405(E) | 60 | #5 | 21'-9" | — |
| b406(E) | 45 | #6 | 27'-1" | — |
| b417(E) | 91 | #5 | 31'-3" | — |
| b418(E) | 120 | #5 | 26'-0" | — |
| b419(E) | 28 | #8 | 32'-3" | — |
| | | | | |
| d400(E) | 638 | #5 | 6'-5" | — |
| d401(E) | 188 | #5 | 7'-11" | — |
| d402(E) | 450 | #5 | 8'-4" | — |
| | | | | |
| e400(E) | 86 | #4 | 19'-8" | — |
| e401(E) | 18 | #4 | 15'-11" | — |
| e402(E) | 10 | #4 | 10'-8" | — |
| e403(E) | 8 | #4 | 25'-9" | — |
| e404(E) | 18 | #4 | 19'-2" | — |
| e405(E) | 12 | #4 | 27'-7" | — |
| e406(E) | 12 | #4 | 19'-4" | — |
| e407(E) | 24 | #4 | 28'-1" | — |
| | | | | |
| Reinforcement Bars, Epoxy Coated | | | Pound | 60,490 |
| Concrete Superstructure | | | Cu Yd | 127.7 |



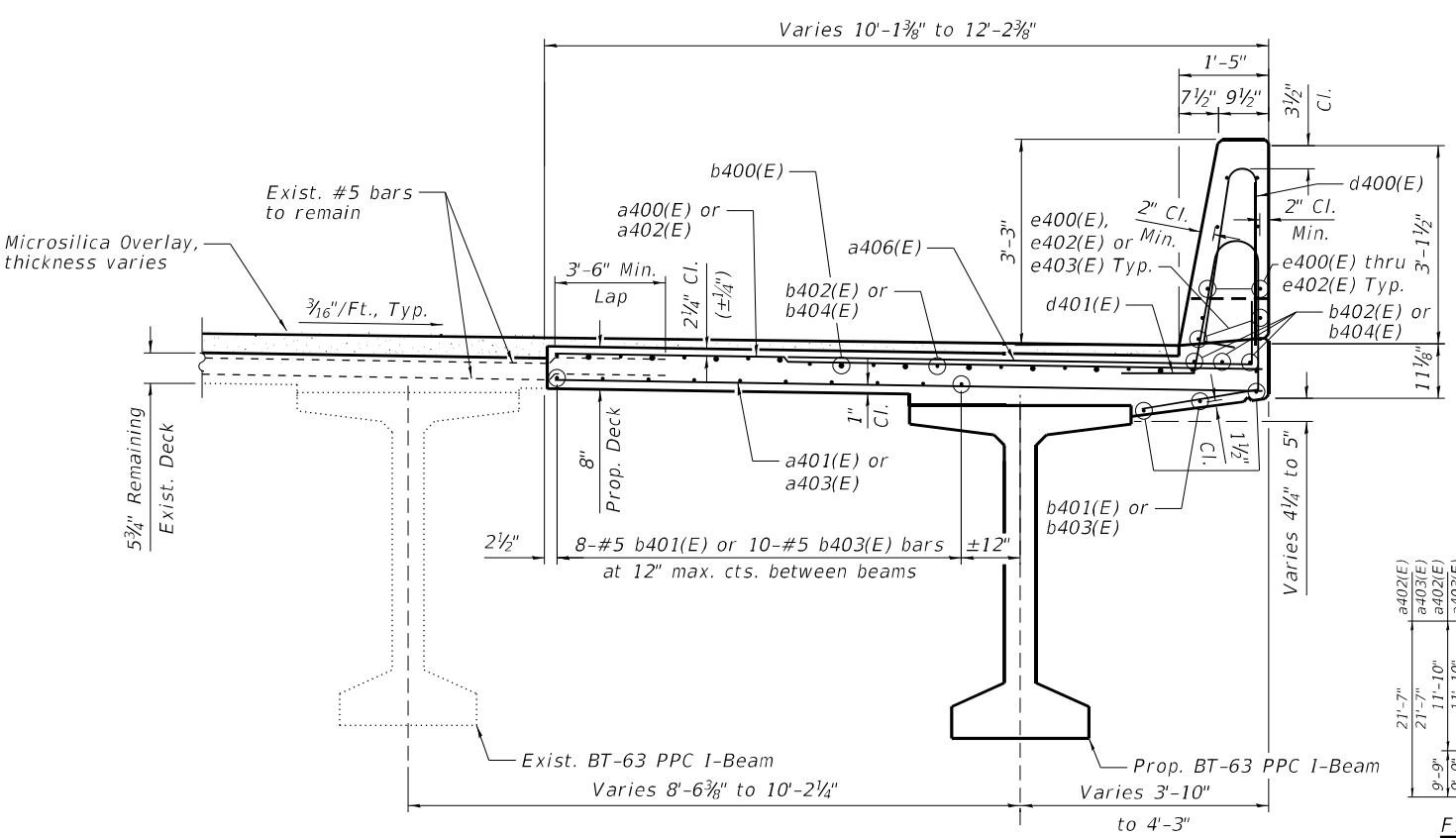
BARS d401(E) & d402(E)



FIELD CUTTING DIAGRAM
 Order a402(E) and a403(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.
 Order a404(E) and a405(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.
 Order a415(E) and a416(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.
 Order a417(E) and a418(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.



SECTION THRU WIDENED DECK, UNIT 3 - SPAN 13



SECTION THRU WIDENED DECK, UNIT 4 - SPAN 14

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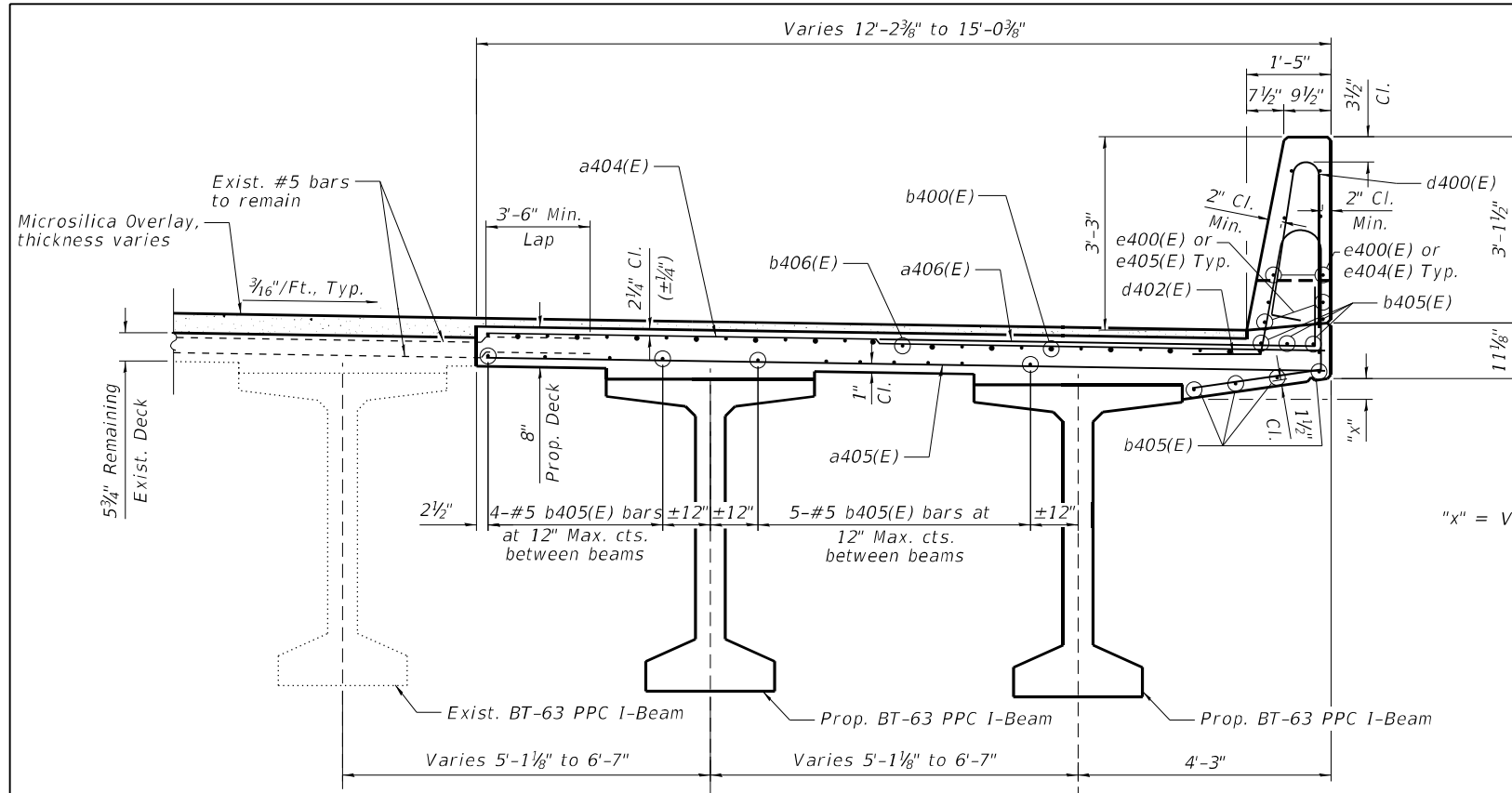
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| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DECK SECTION AT WIDENING I
 STRUCTURE NO. 090-0122**

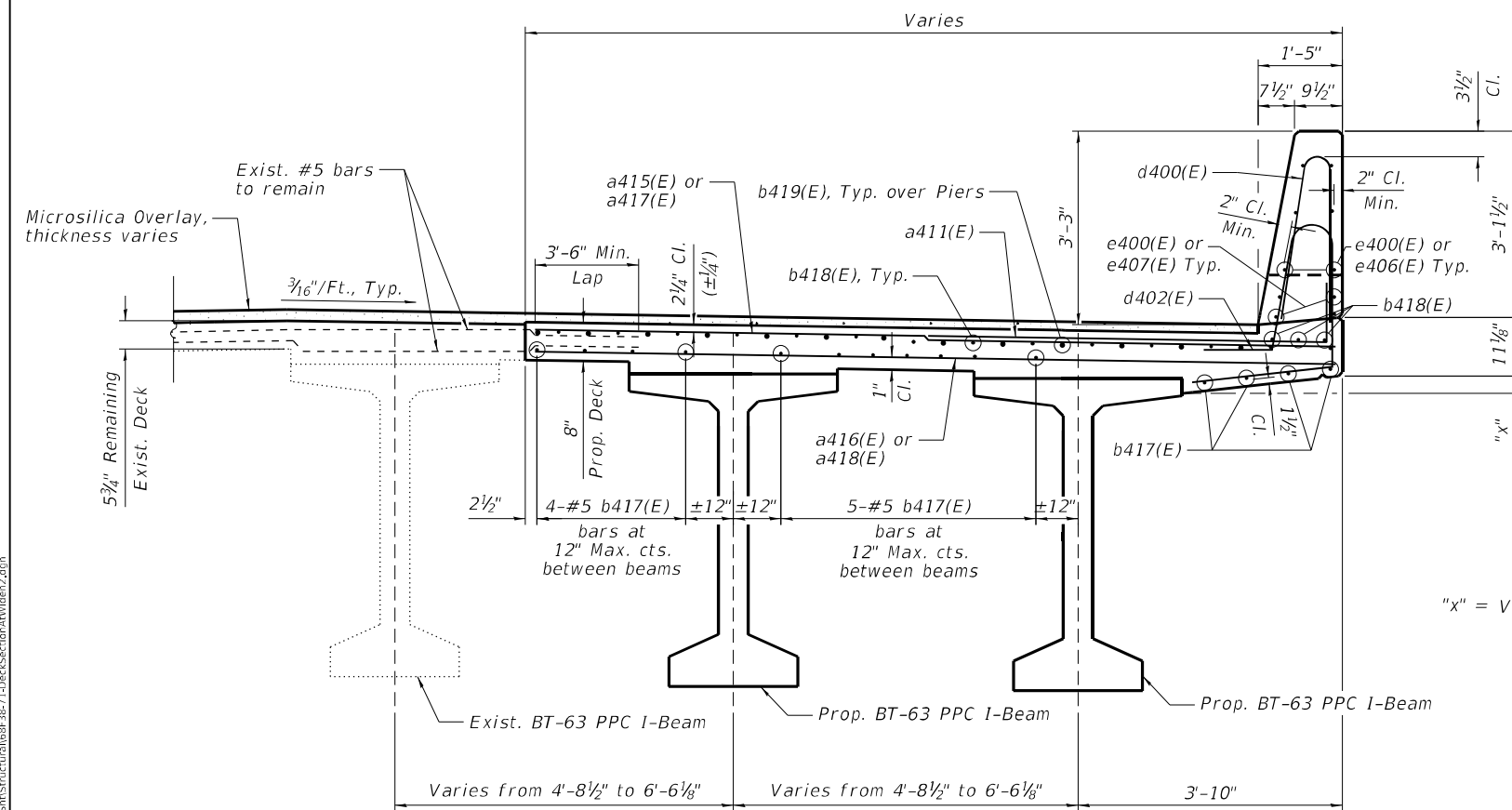
SHEET 5-71 OF S-122 SHEETS

| | | | | |
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| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY - | TOTAL SHEETS 286 | SHEET NO. 202 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT PEORIA / TAZEVELL | |



SECTION THRU WIDENED DECK, UNIT 4 - SPAN 15

"x" = Varies from 4 3/4" to 3 1/2"



SECTION THRU WIDENED DECK, UNIT 5 - SPAN 16

"x" = Varies from 4 3/4" to 3 1/2"

NOTE:

1. For bar bending diagrams and Bill of Material, see Sheet S-71 .

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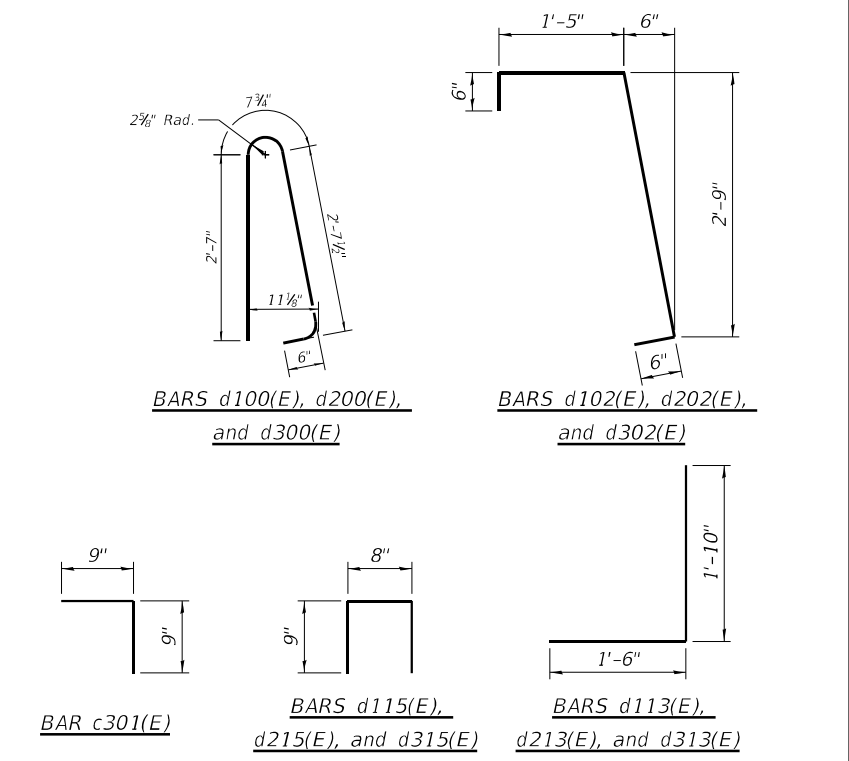
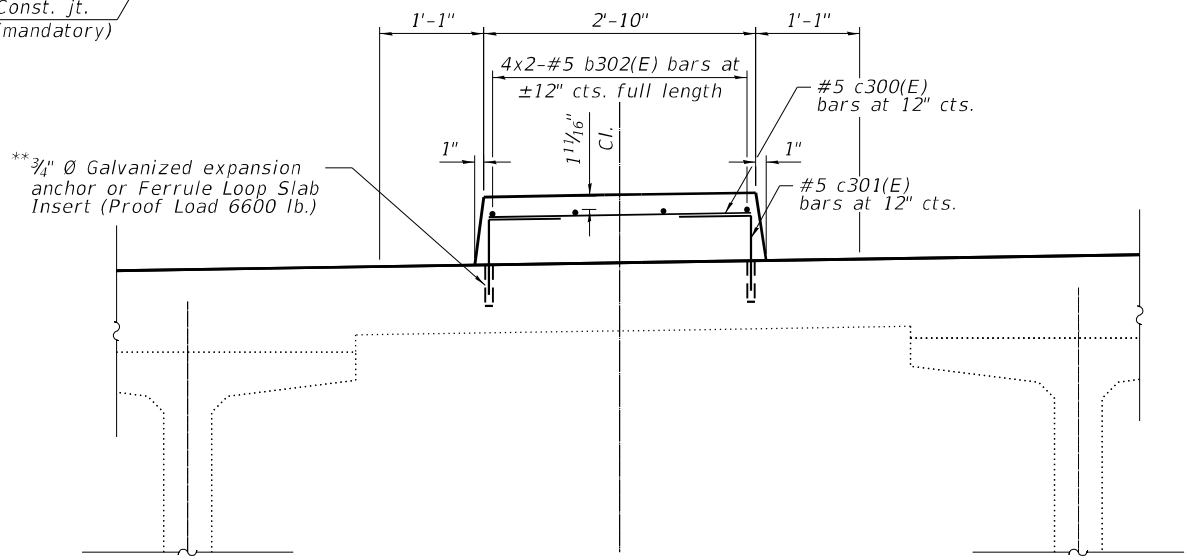
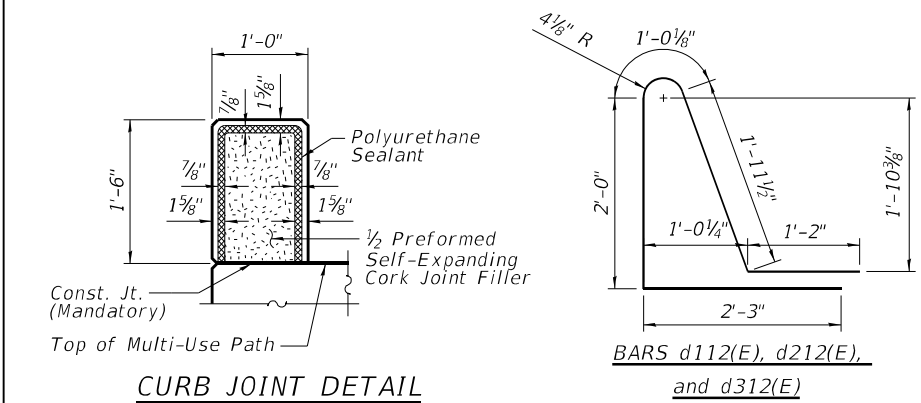
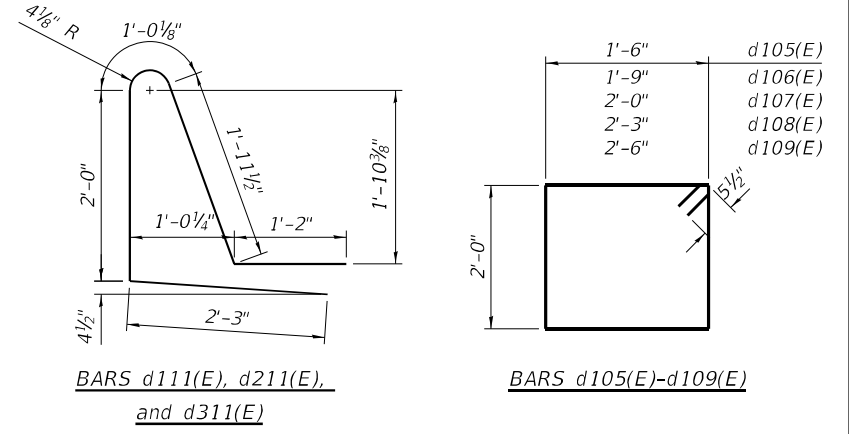
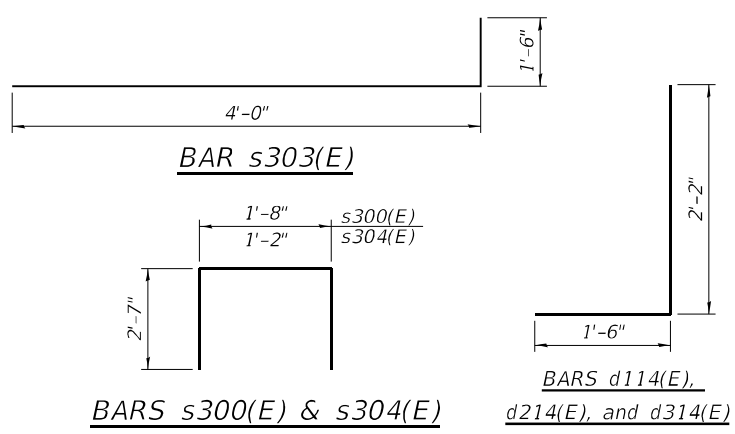
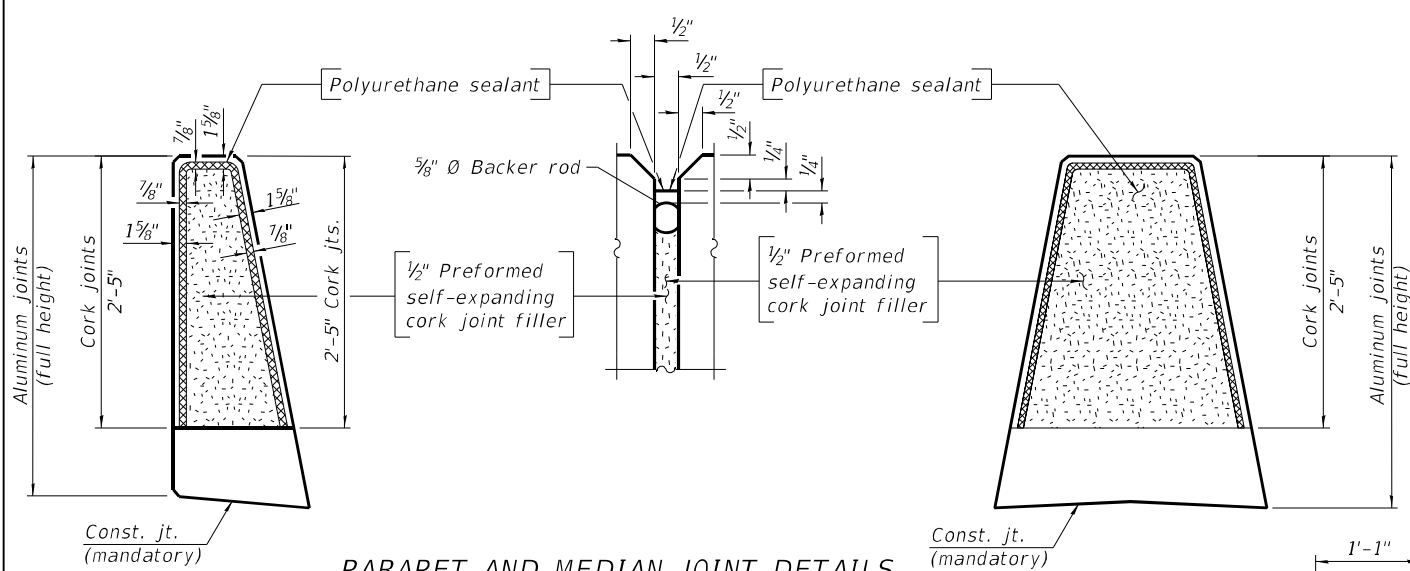
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DECK SECTION AT WIDENING II
 STRUCTURE NO. 090-0122

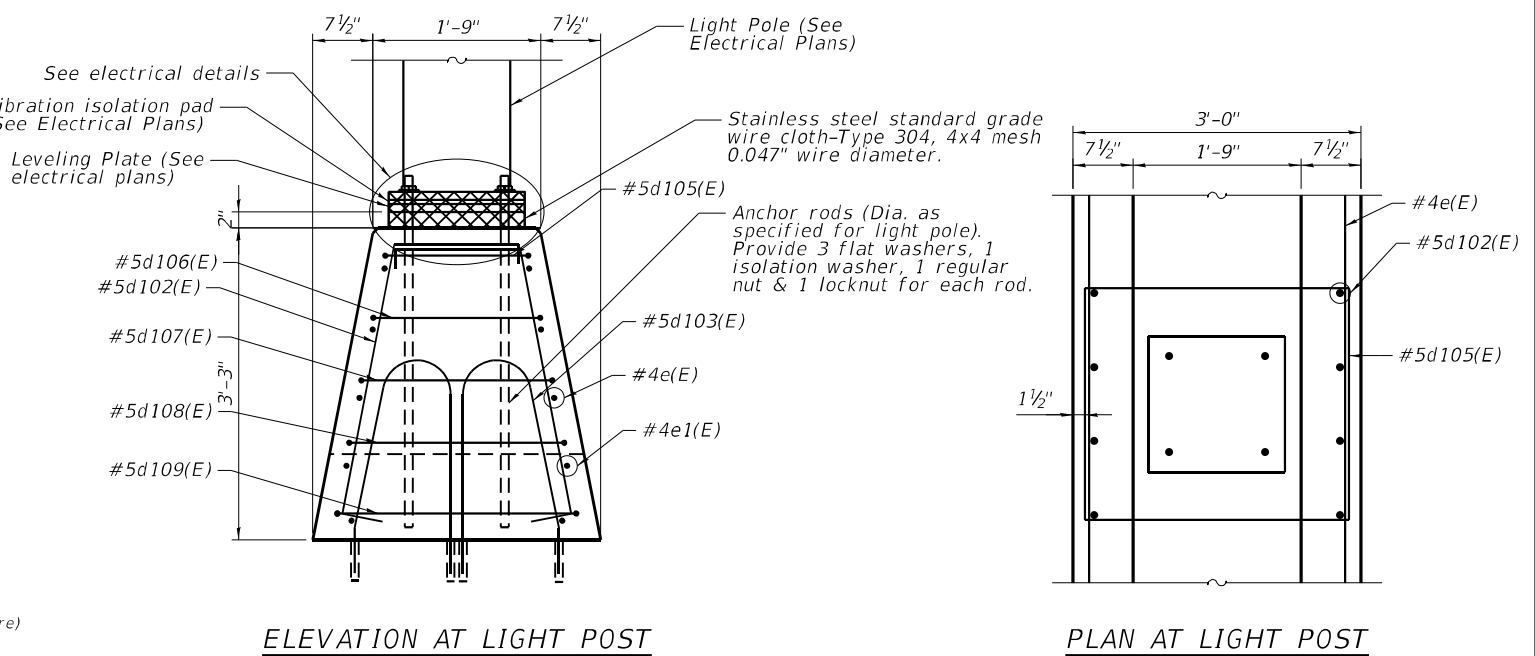
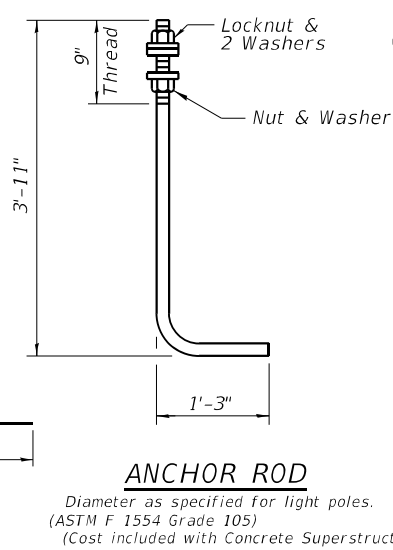
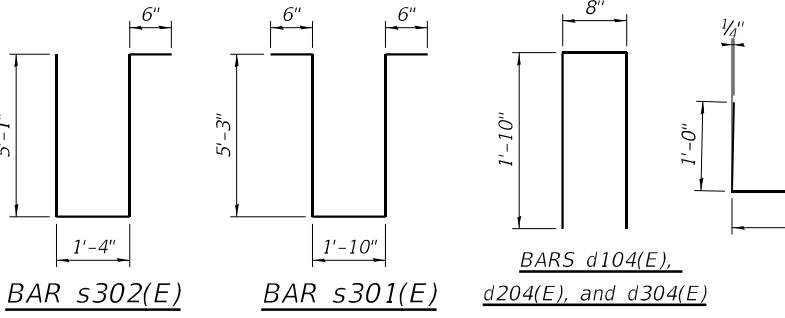
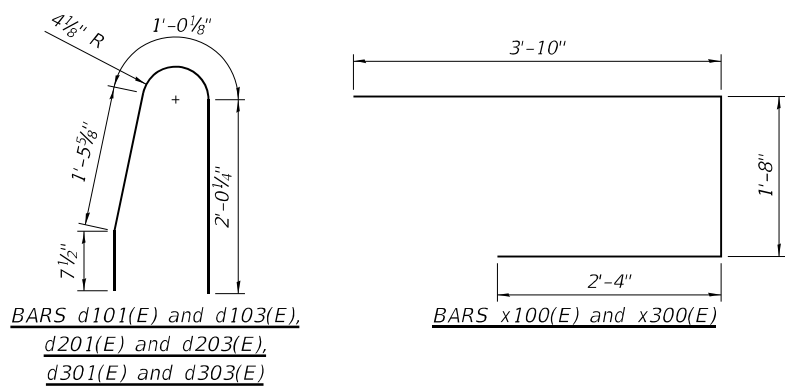
SHEET 5-72 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 203 |
| CONTRACT NO. | | | 68F38 | |

ILLINOIS FED. AID PROJECT



Note:
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray. Cost included in concrete superstructure.



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| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS I
 STRUCTURE NO. 090-0122**

SHEET 5-73 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------------|--------|-------------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 204 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | PEORIA / TAZEWELL | |

SUPERSTRUCTURE SPANS 1-2 BOM

Table with 5 columns: Bar, No., Size, Length, Shape. Lists reinforcement bars for spans 1-2, including bars like a100(E) through x100(E) and summary rows for epoxy bars, concrete, and protective coat.

SUPERSTRUCTURE SPANS 3-6 BOM

Table with 5 columns: Bar, No., Size, Length, Shape. Lists reinforcement bars for spans 3-6, including bars like a105(E) through x101(E) and summary rows for epoxy bars, concrete, and protective coat.

SUPERSTRUCTURE SPANS 7-9 BOM

Table with 5 columns: Bar, No., Size, Length, Shape. Lists reinforcement bars for spans 7-9, including bars like a200(E) through x201(E) and summary rows for epoxy bars, concrete, and protective coat.

SUPERSTRUCTURE SPANS 10-15 BOM

Table with 5 columns: Bar, No., Size, Length, Shape. Lists reinforcement bars for spans 10-15, including bars like a300(E) through x301(E) and summary rows for epoxy bars, concrete, and protective coat.

SUPERSTRUCTURE SPANS 16-17 BOM

Table with 5 columns: Bar, No., Size, Length, Shape. Lists reinforcement bars for spans 16-17, including bars like a308(E) through x301(E) and summary rows for epoxy bars, concrete, and protective coat.

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USER NAME = Structural
DESIGNED - LM
DRAWN - SBA
CHECKED - BWS
DATE - 10/12/22

REVISIONS table with columns for revision number, description, and date.

REINFORCEMENT SUMMARY for spans 1-2:
Reinforcement Bars, Epoxy: 30,440 Pound
Concrete Superstructure: 212.1 Cu Yd
Protective Coat: 2,864 Sq Yd

REINFORCEMENT SUMMARY for spans 3-6:
Reinforcement Bars, Epoxy: 51,180 Pound
Concrete Superstructure: 300.8 Cu Yd
Protective Coat: 4,374 Sq Yd

REINFORCEMENT SUMMARY for spans 7-9:
Reinforcement Bars, Epoxy: 104,730 Pound
Concrete Superstructure: 542.7 Cu Yd
Protective Coat: 9,106 Sq Yd

REINFORCEMENT SUMMARY for spans 10-15:
Reinforcement Bars, Epoxy: 69,220 Pound
Concrete Superstructure: 457.3 Cu Yd
Protective Coat: 6,055 Sq Yd

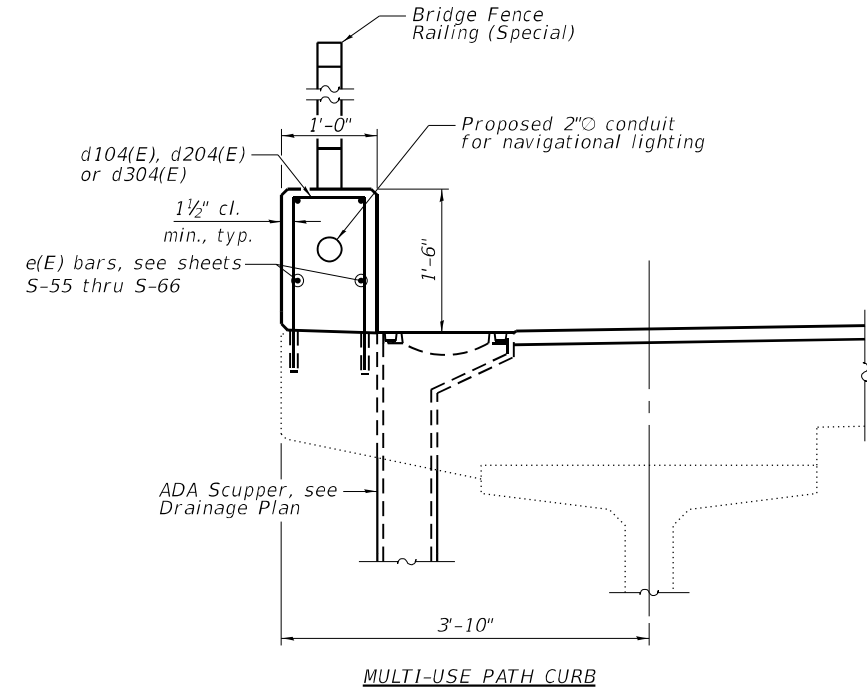
REINFORCEMENT SUMMARY for spans 16-17:
Reinforcement Bars, Epoxy: 21,980 Pound
Concrete Superstructure: 119.4 Cu Yd
Protective Coat: 2,298 Sq Yd

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

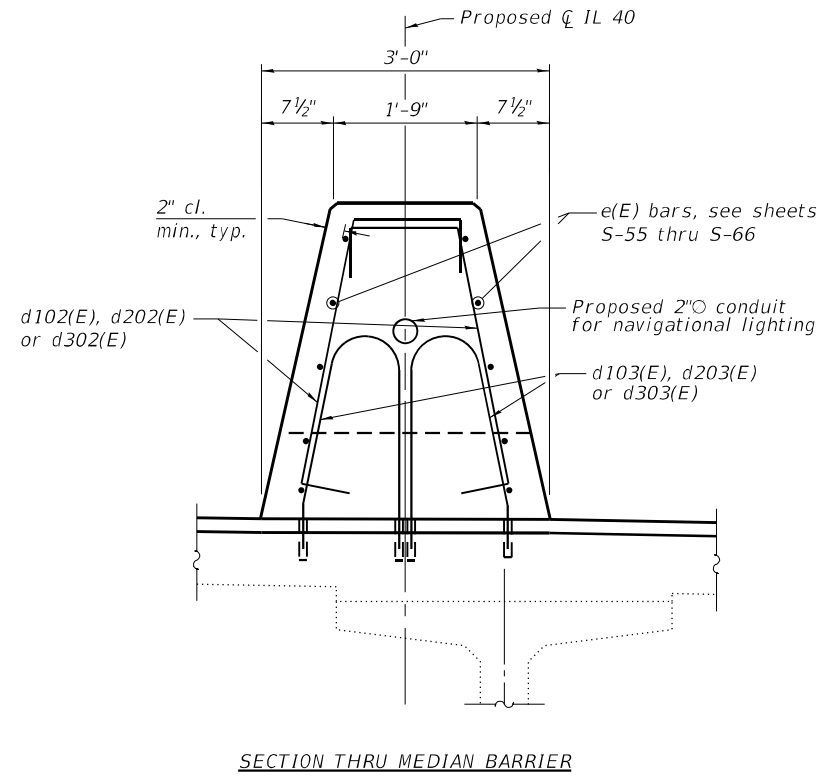
SUPERSTRUCTURE DETAILS II STRUCTURE NO. 090-0122

SHEET 5-74 OF S-122 SHEETS

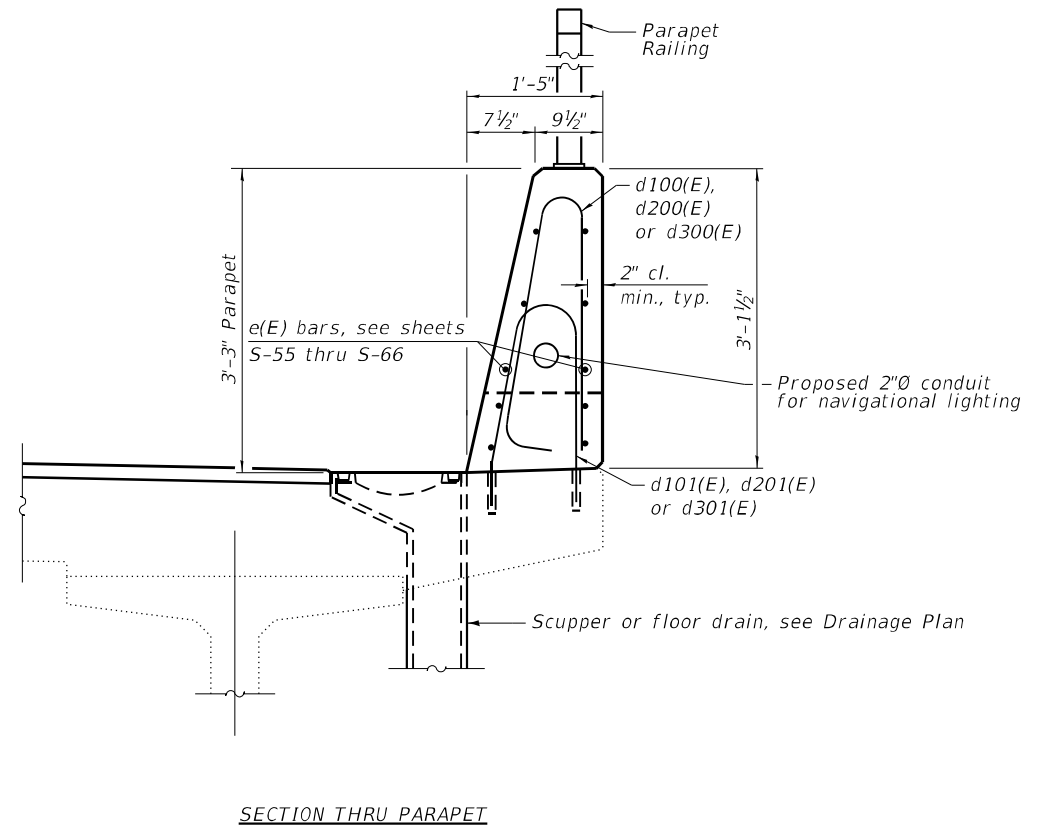
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404 50 (BDR, BJR, BRR, L) * 286 205
CONTRACT NO. 68F38
ILLINOIS FED. AID PROJECT * PEORIA / TAZEWELL



MULTI-USE PATH CURB

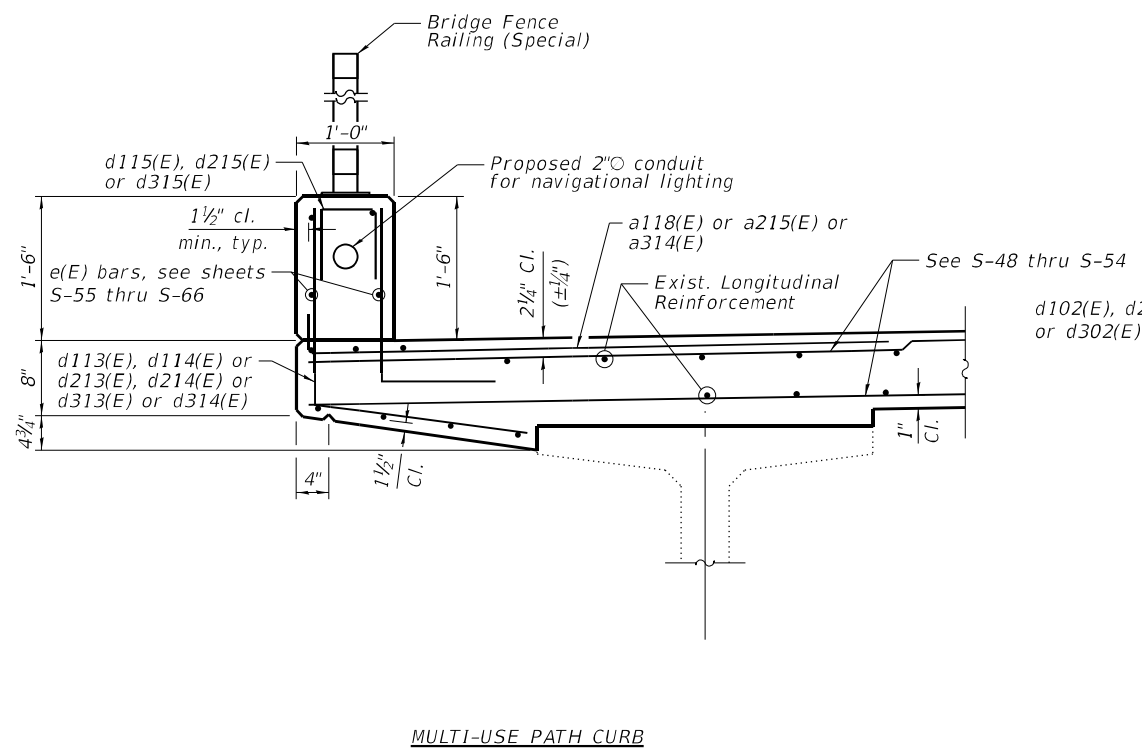


SECTION THRU MEDIAN BARRIER

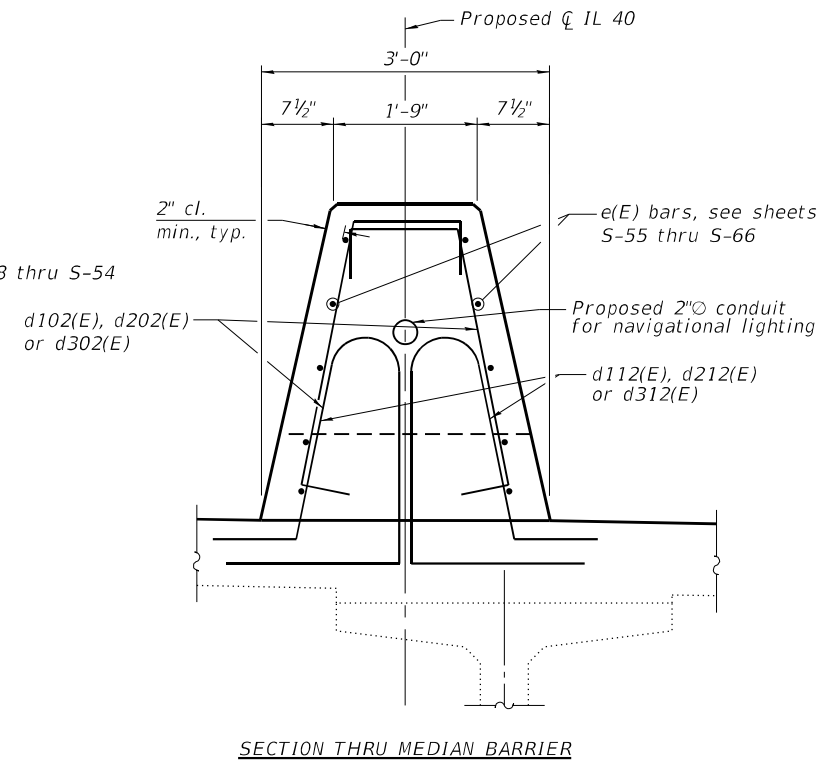


SECTION THRU PARAPET

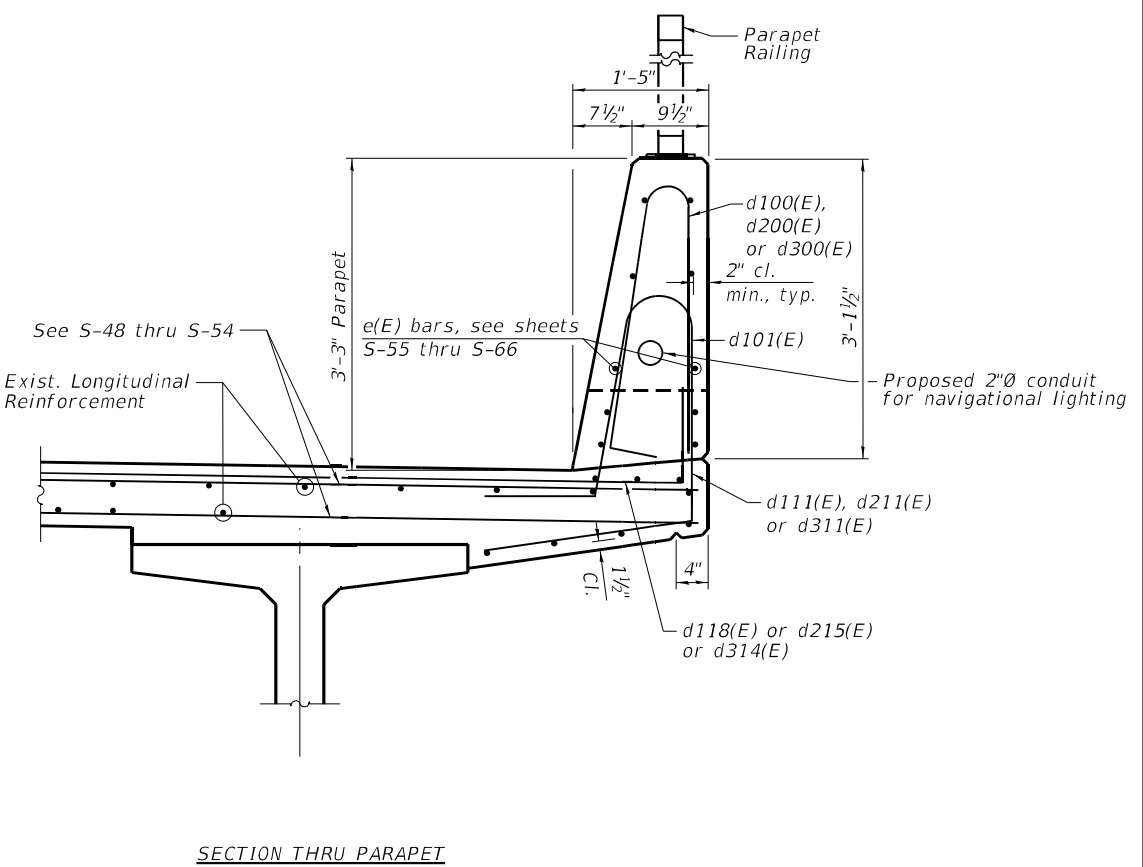
SECTIONS AT SPANS



MULTI-USE PATH CURB



SECTION THRU MEDIAN BARRIER



SECTION THRU PARAPET

SECTIONS AT EXPANSION JOINTS

NOTE:
1. See Sheets S-55 through S-66 for Elevation of Parapet and Median Barriers.

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CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

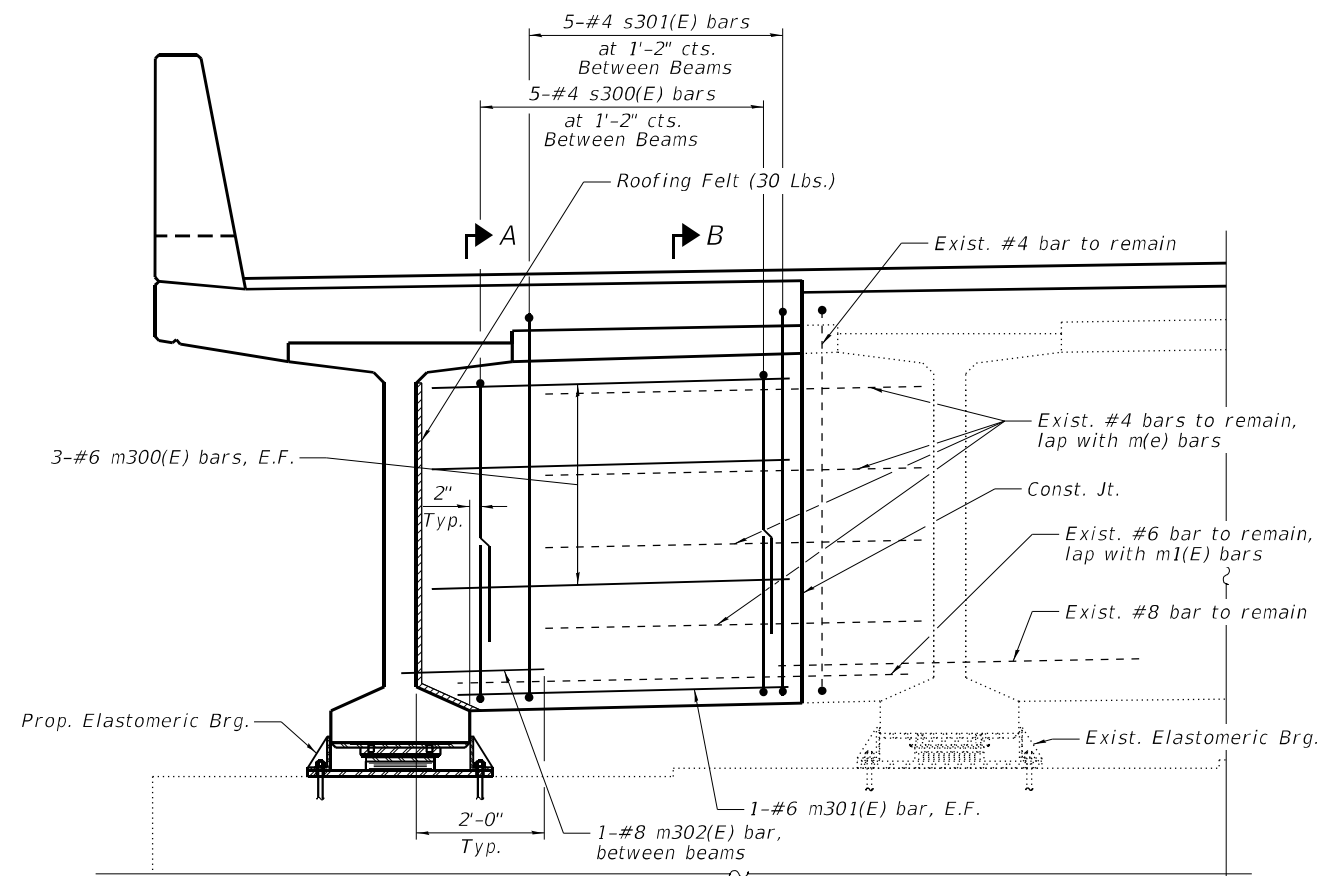
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

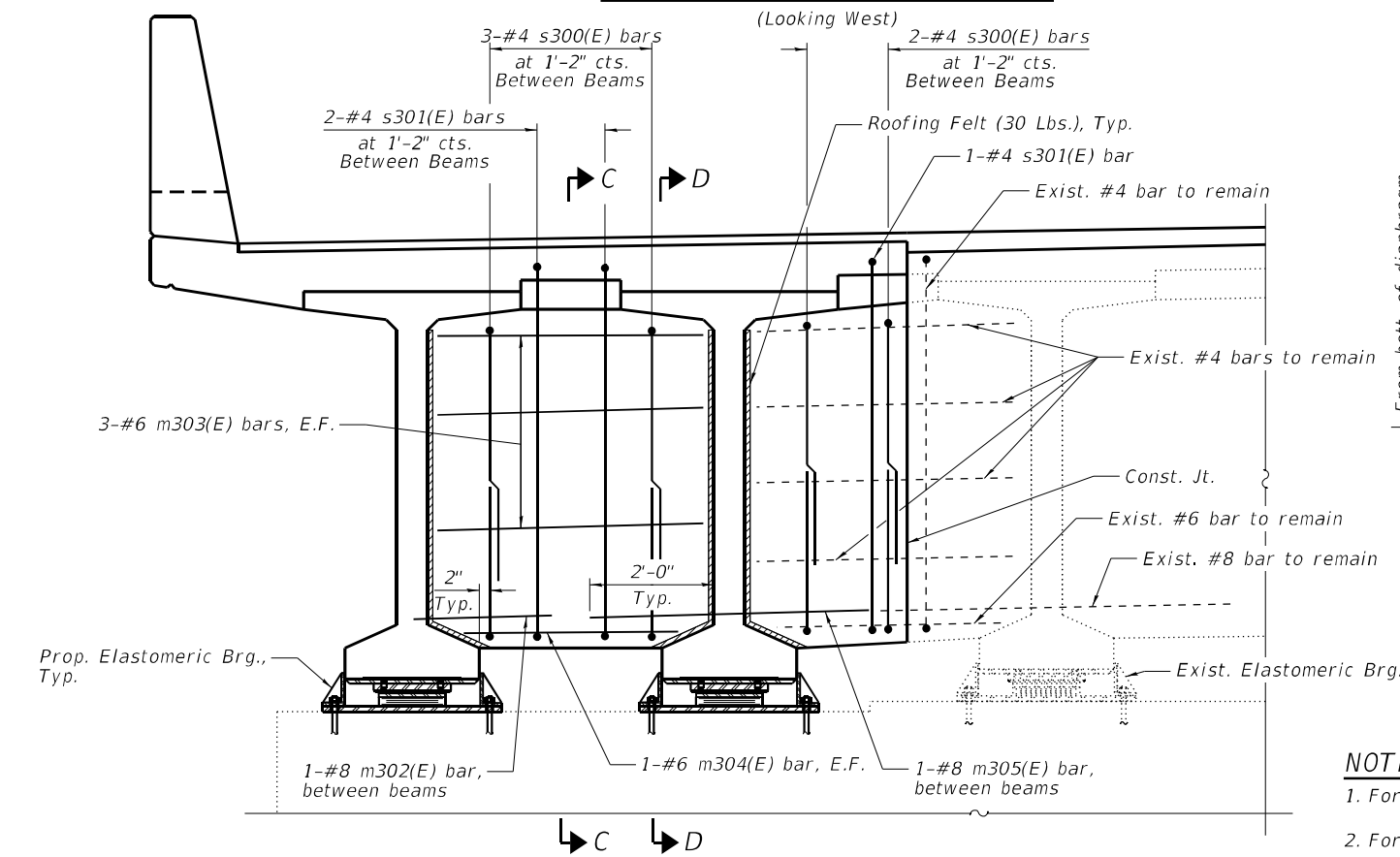
SUPERSTRUCTURE CROSS SECTION-DETAILS
STRUCTURE NO. 090-0122

SHEET 5-75 OF S-122 SHEETS

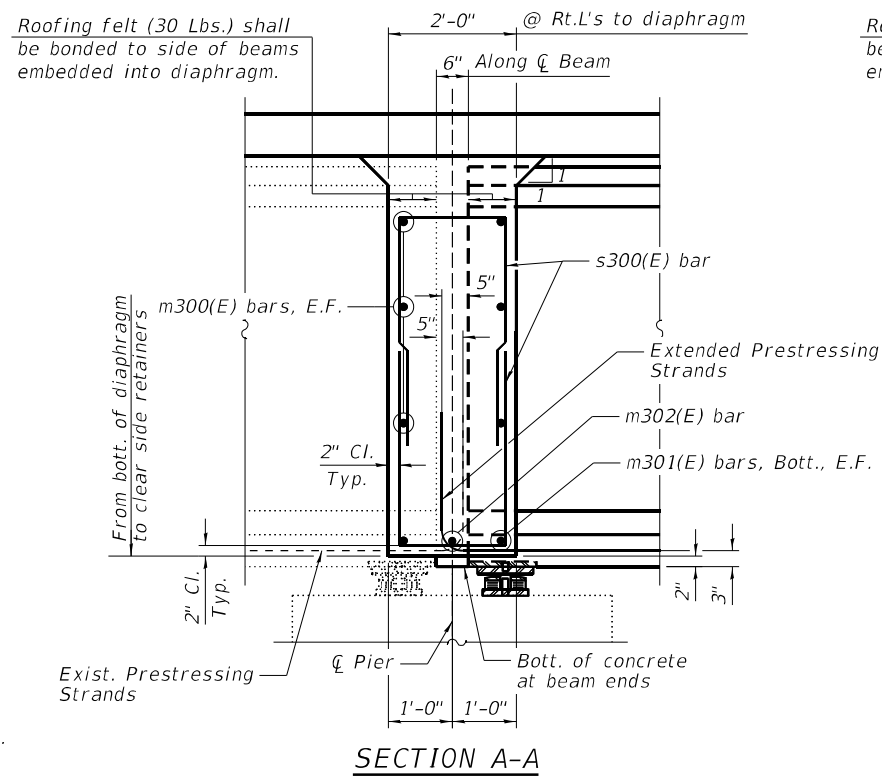
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| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |



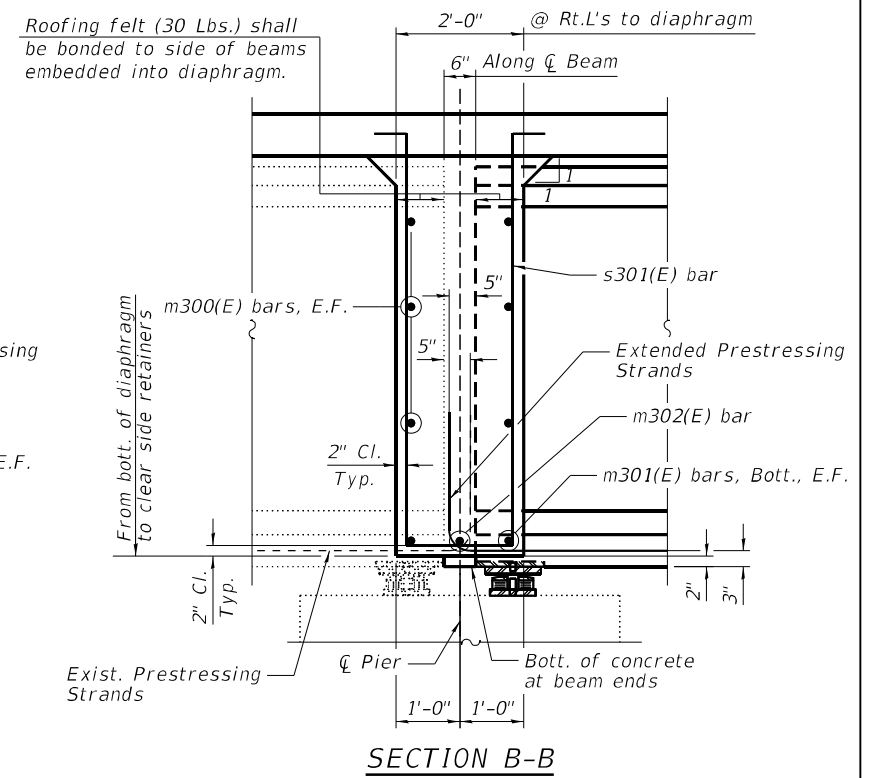
PIER 13 DIAPHRAGM ELEVATION



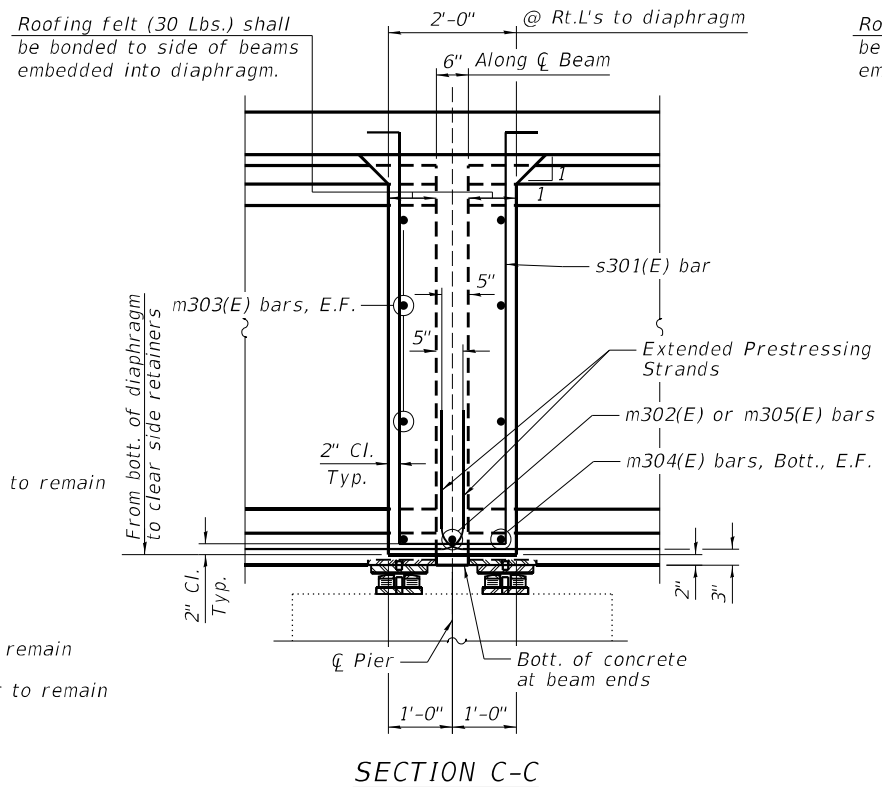
PIER 14 DIAPHRAGM ELEVATION



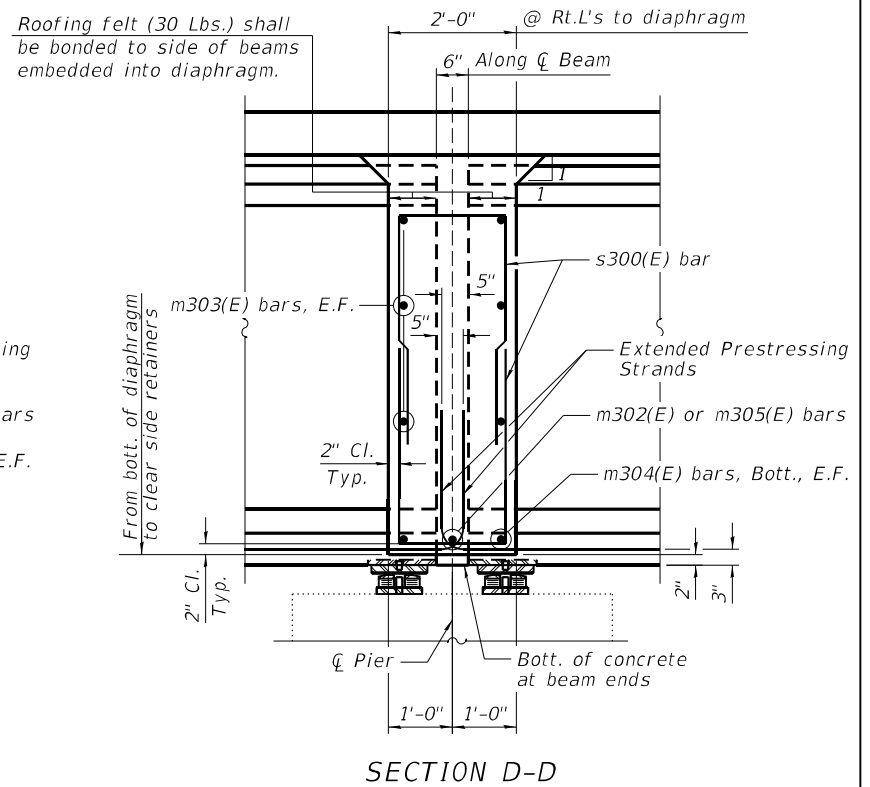
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

- NOTES:**
1. For Deck Plan, see Sheets S-53 and S-54.
 2. For Superstructure Details, Bar Diagrams, and Bill of Material, see Sheet S-74.
 3. Existing reinforcement shall be cleaned and incorporated in the new construction, cost included with Concrete Removal.

LEGEND
E.F. Each Face

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| DRAWN - SBA | REVISOR - | |
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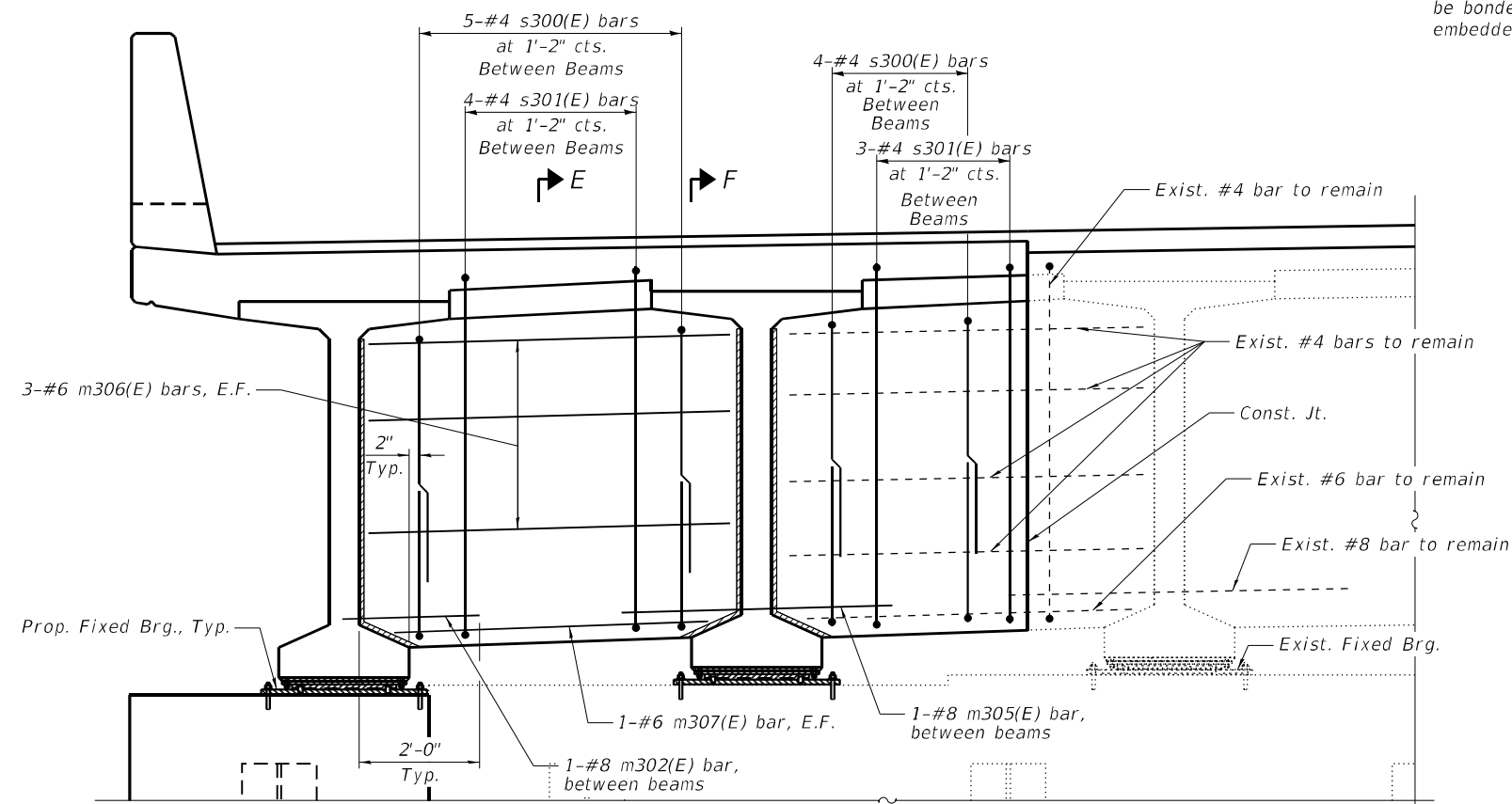
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS I
STRUCTURE NO. 090-0122

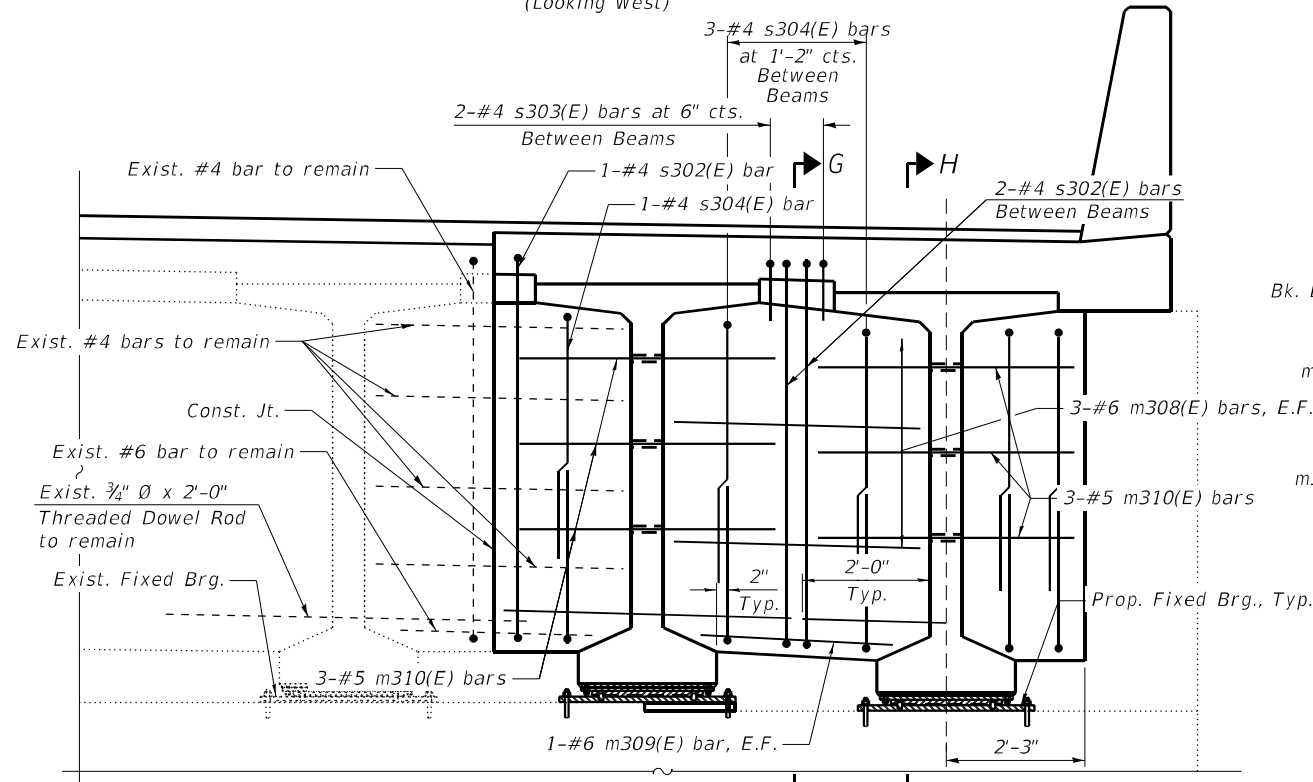
SHEET 5-76 OF S-122 SHEETS

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| | | | CONTRACT NO. 68F38 | |

ILLINOIS FED. AID PROJECT PEORIA / TAZEVELL

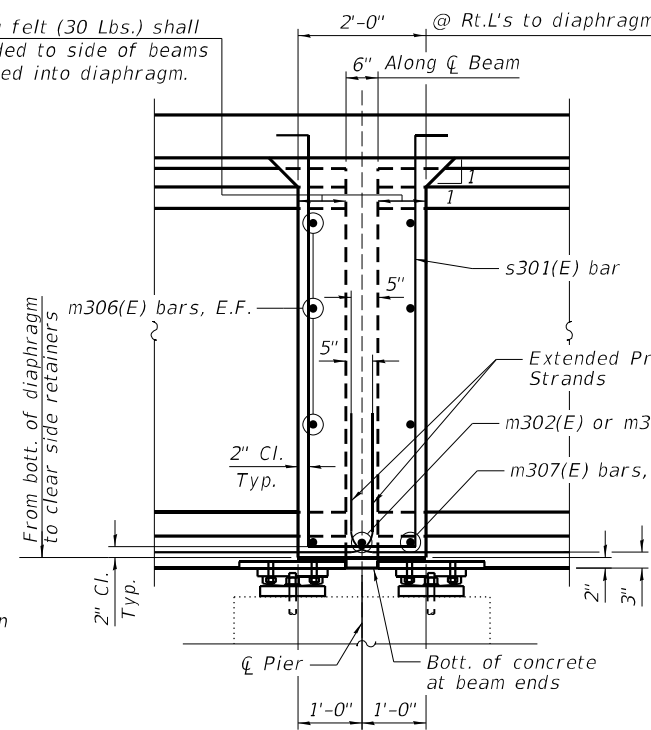


PIER 16 DIAPHRAGM ELEVATION
(Looking West)



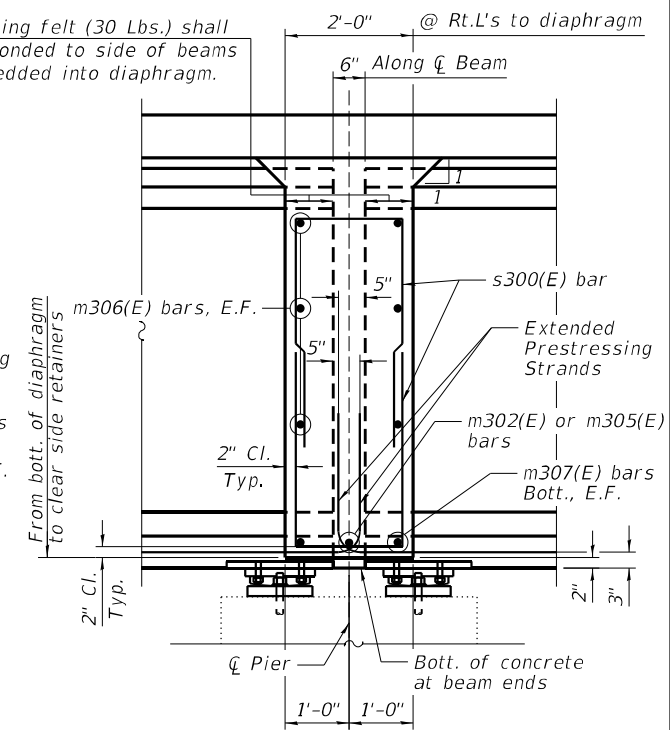
EAST ABUTMENT DIAPHRAGM ELEVATION
(Looking East)

Roofing felt (30 Lbs.) shall be bonded to side of beams embedded into diaphragm.



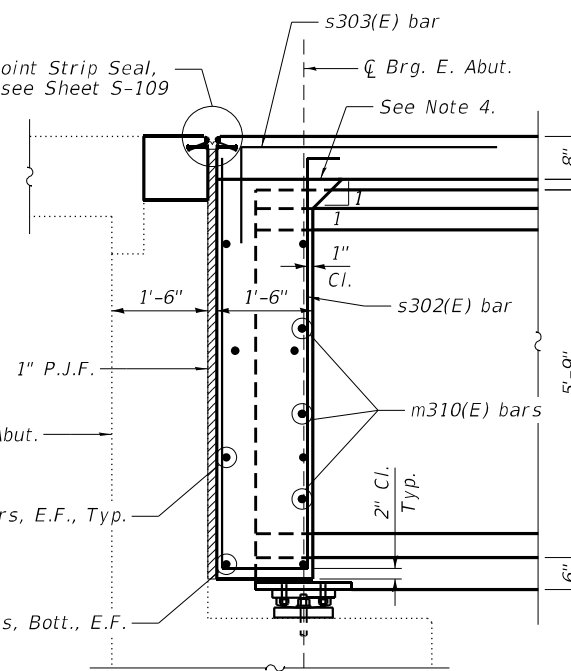
SECTION E-E

Roofing felt (30 Lbs.) shall be bonded to side of beams embedded into diaphragm.



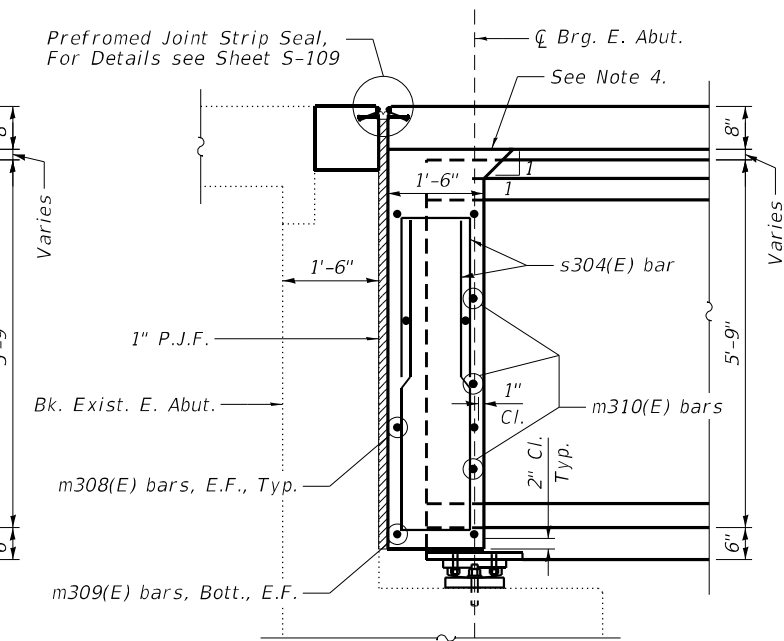
SECTION F-F

Prefomed Joint Strip Seal, For Details see Sheet S-109



SECTION G-G

Prefomed Joint Strip Seal, For Details see Sheet S-109



SECTION H-H

NOTES:

1. For Deck Plan, see Sheets S-53 and S-54.
2. For Superstructure Details, Bar Diagrams, and Bill of Material, see Sheet S-74.
3. Existing reinforcement shall be cleaned and incorporated in the new construction, cost included with Concrete Removal.
4. Pour diaphragm flush with bottom of slab.

LEGEND

E.F. Each Face

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| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
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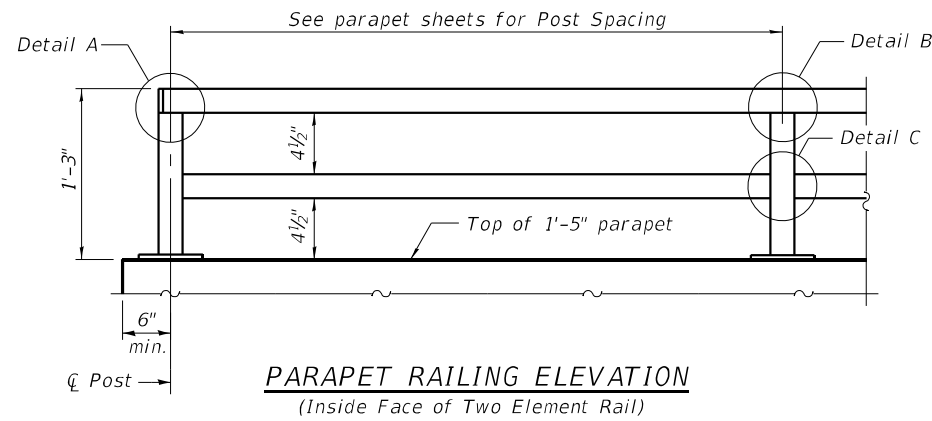
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS II
STRUCTURE NO. 090-0122**

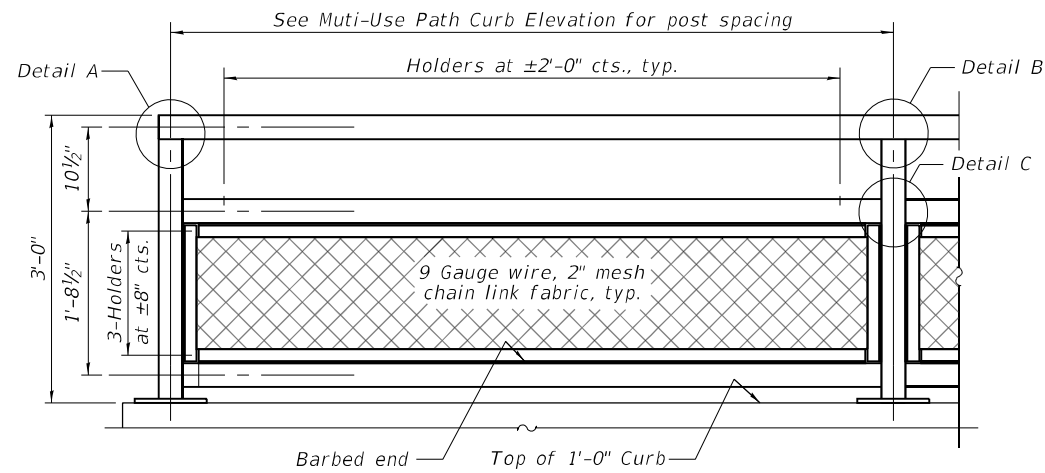
SHEET S-77 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------------------|--------|--------------|-----------|
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| CONTRACT NO. 68F38 | | | | |

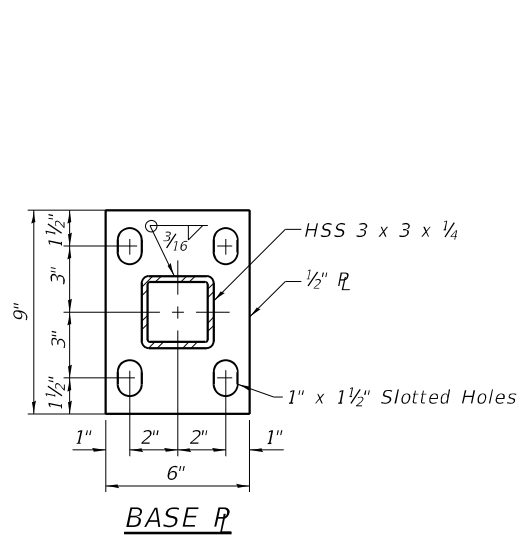
ILLINOIS FED. AID PROJECT PEORIA / TAZEVELL



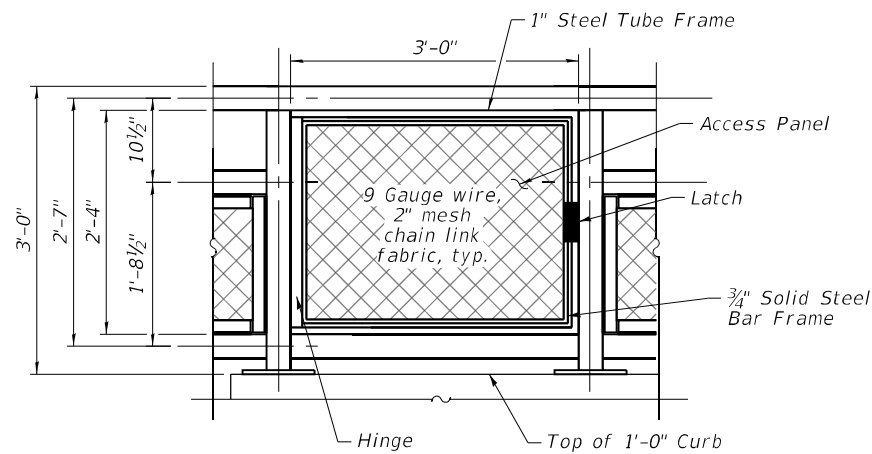
PARAPET RAILING ELEVATION
(Inside Face of Two Element Rail)



TYPICAL BRIDGE FENCE RAILING (SPECIAL) ELEVATION



BASE R

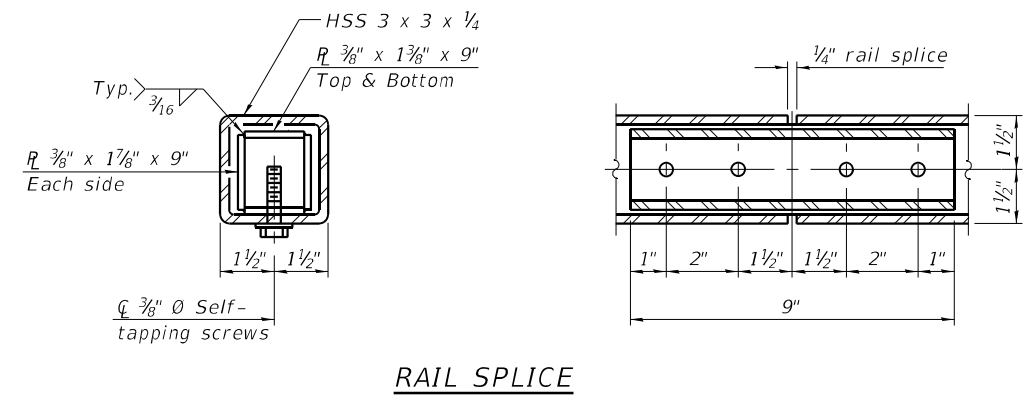
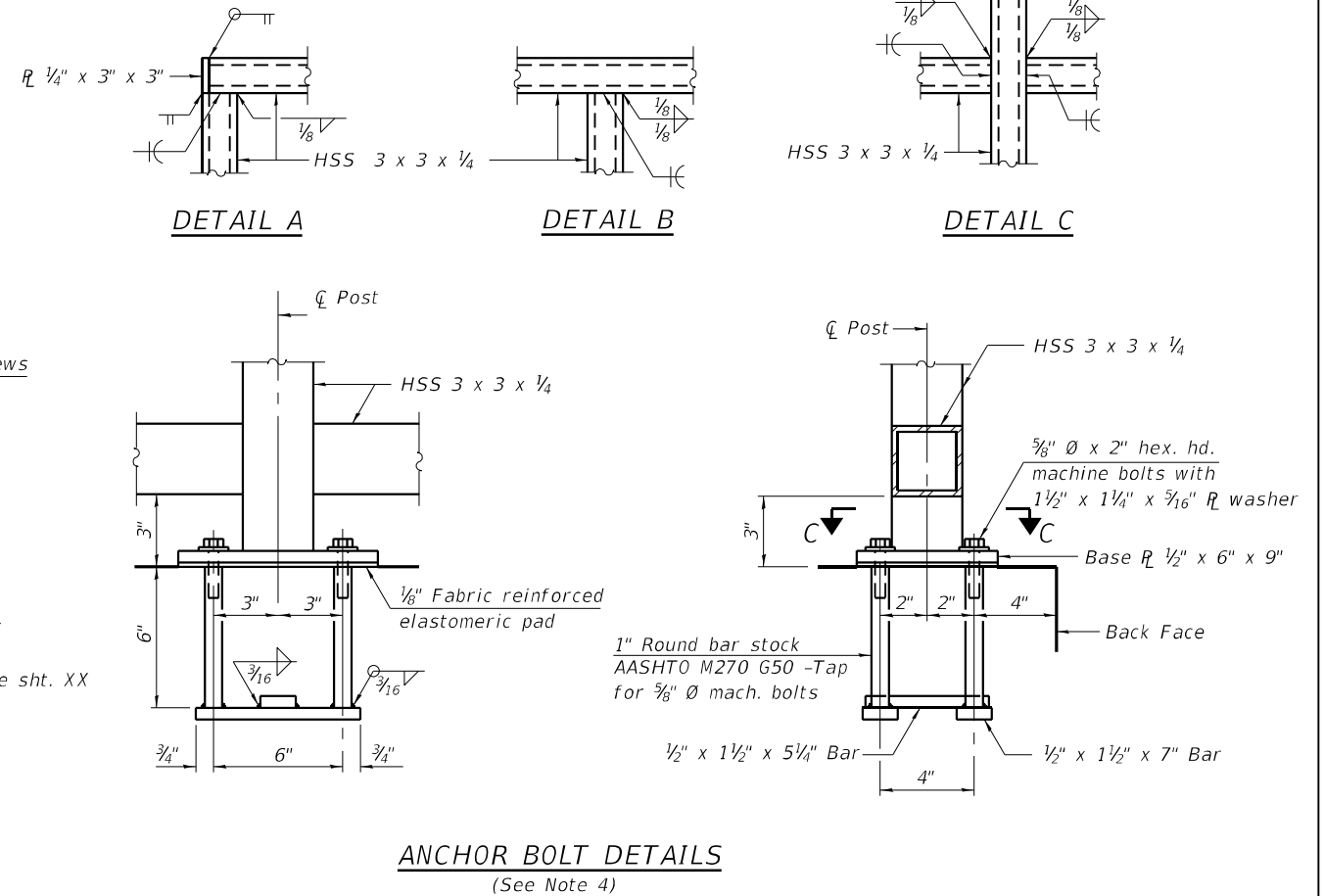


GATE DETAIL

Gate detail to be used at Navigation Light, see lighting plans for location. Cost included in "Bridge Fence Railing (Special)"

BILL OF MATERIAL

| Item | Unit | Quantity |
|--------------------------------|------|----------|
| Bridge Fence Railing (Special) | Foot | 2,462 |
| Parapet Railing | Foot | 2,365 |



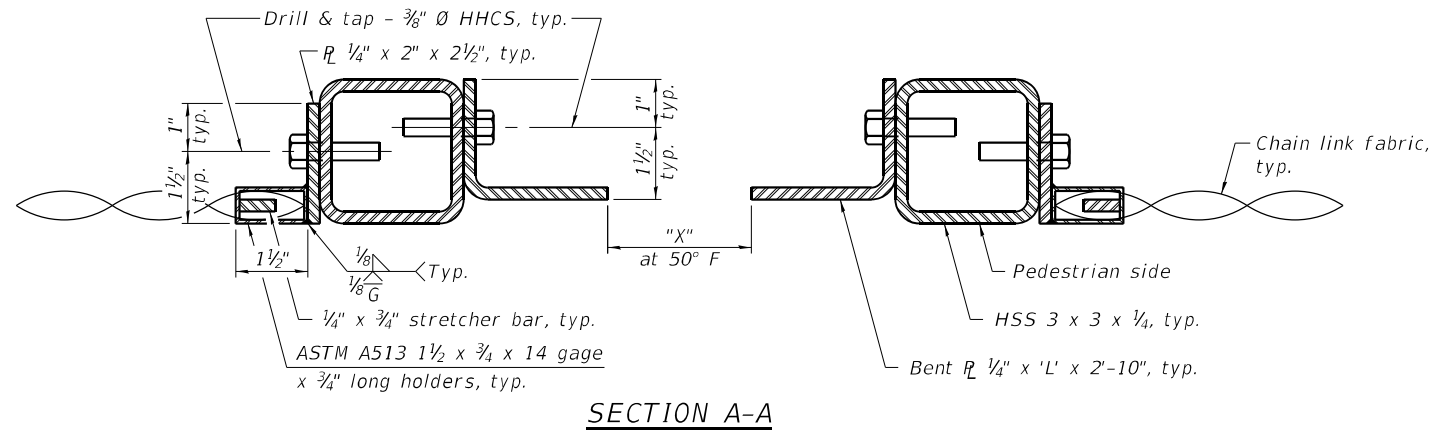
NOTES:

- All structural steel tubing, post, and railing for parapet shall be CVN tested according to 1006.34(b) of the Standard Specifications. CVN testing may be omitted for the Bridge Fence Railing (Special).
- All structural steel rail elements, including posts, railing, splices, anchor devices, plates, and fasteners, shall be hot dipped galvanized in accordance with AASHTO M 111.
- All chain link fence elements, including chain link fabric, ties, tensioning components, and fittings, shall be hot dipped galvanized in accordance with AASHTO M 111.
- In lieu of the cast-in-place anchor device shown, the CONTRACTOR has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specification.
- For Section A-A see Sheet S-79

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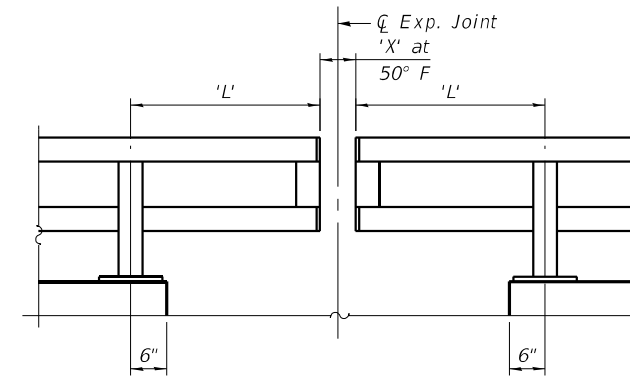
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------------|--------|--------------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 209 |
| | | | CONTRACT NO. 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |



SECTION A-A

EXPANSION JOINT PARAMETERS - MUP CURB

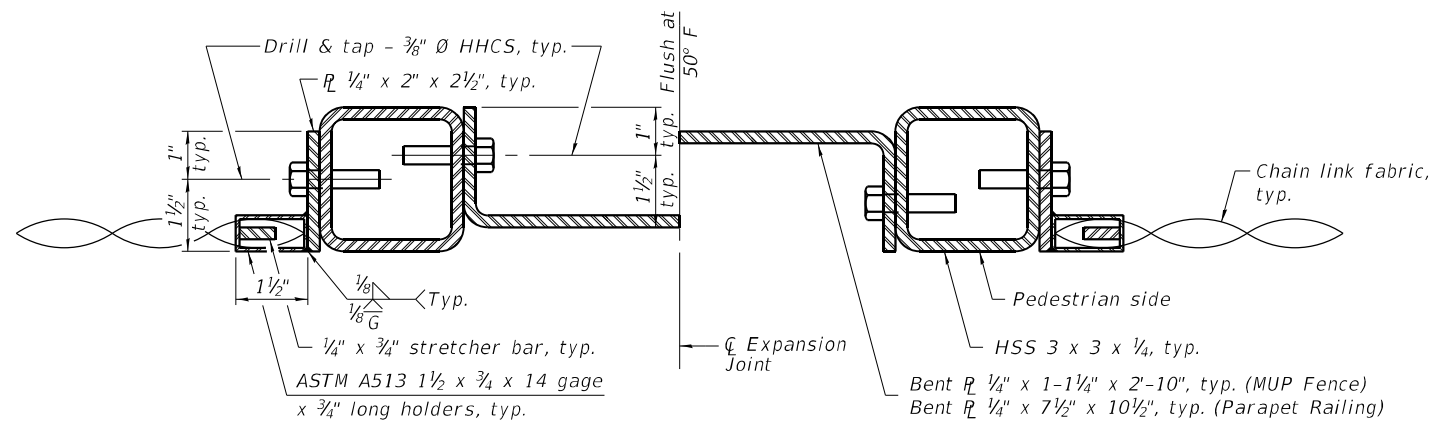
| Location | 'X' at 50° F | Plate 'L' |
|----------|--------------|-----------|
| W. Abut. | 2 3/4" | 4 1/2" |
| Pier 2 | 3" | 4 1/2" |
| Pier 15 | 3" | 7 3/8" |
| E. Abut. | 1 3/4" | 4 1/2" |



PARAPET RAILING AT EXPANSION JOINT

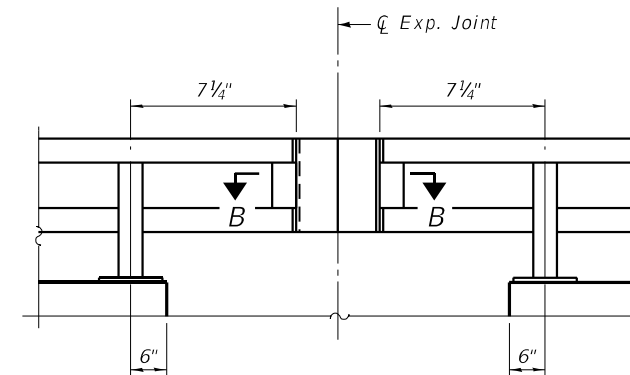
EXPANSION JOINT PARAMETERS - PARAPET RAILING

| Location | 'X' at 50° F | Plate 'L' |
|----------|--------------|-----------|
| W. Abut. | 2 3/4" | 6" |
| Pier 2 | 3" | 6" |
| Pier 15 | 3" | 8 7/8" |
| E. Abut. | 1 3/4" | 6" |



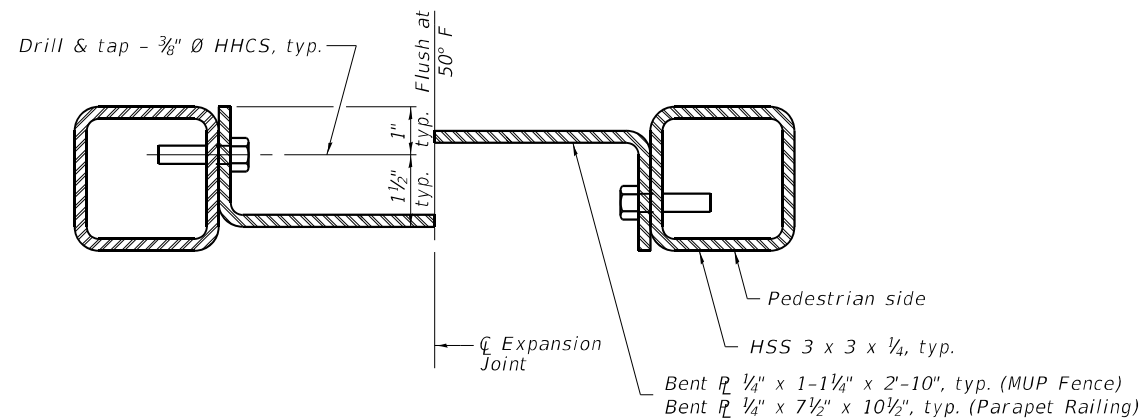
SECTION A-A

(Piers 6 & 9)



PARAPET RAILING AT EXPANSION JOINT

(Piers 6 & 9)



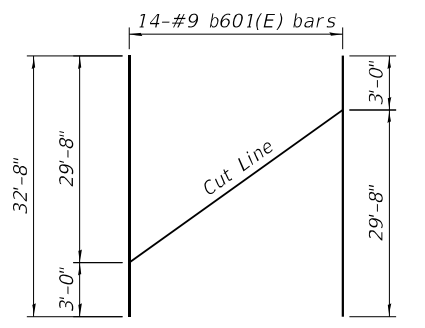
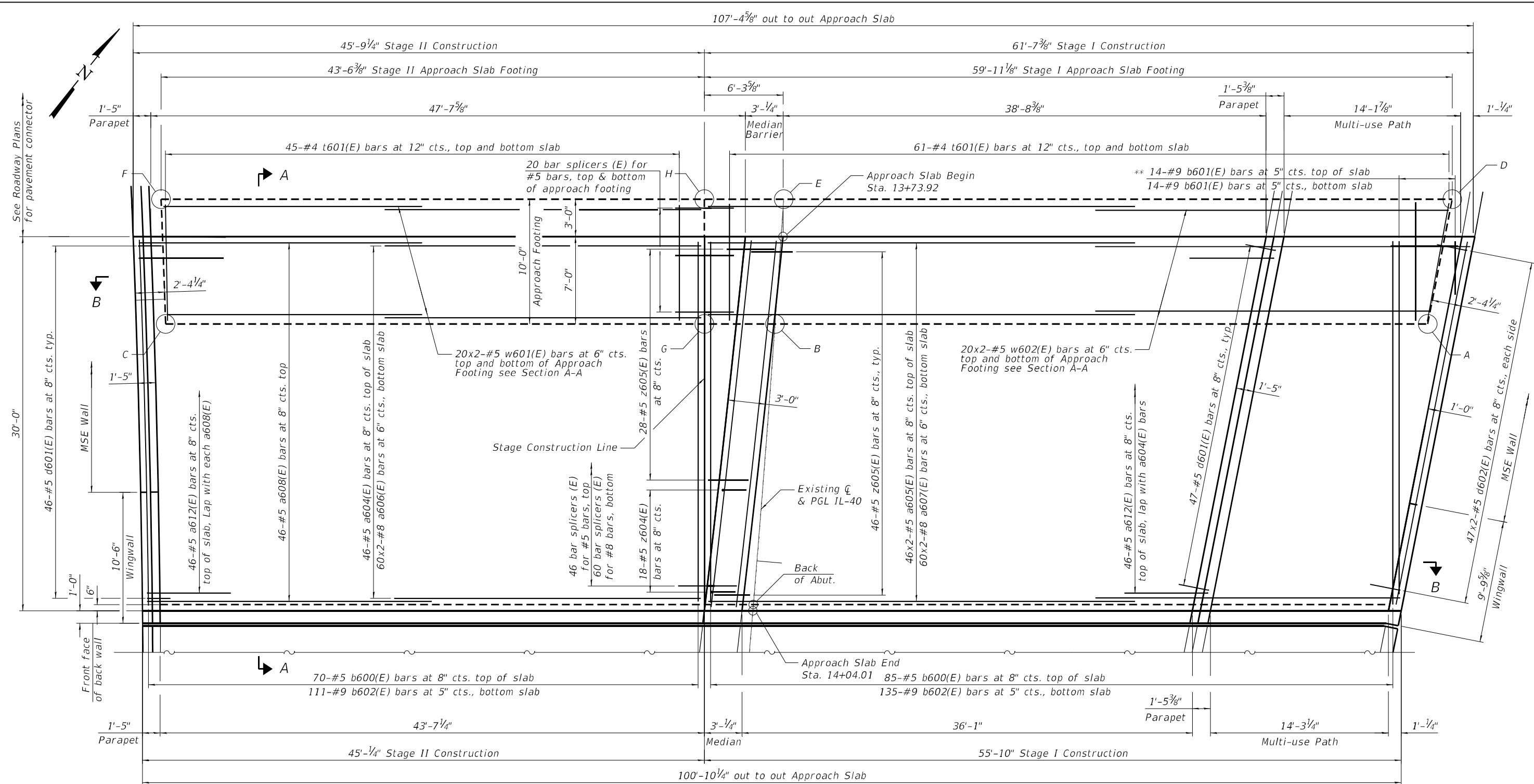
SECTION B-B

(Piers 6 & 9)

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| | DRAWN - SBA | REVISED - |
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| PLOT DATE = 10/12/22 | DATE - 10/12/22 | REVISED - |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 210 |
| CONTRACT NO. | | | 68F38 | |



** Order b601(E) bars full length.
Cut as shown and use remainder
of bars on top of the approach
slab.

MINIMUM BAR LAP

- #4 bar = 2'-5"
- #5 bar = 3'-4"
- #8 bar = 4'-9"

PLAN

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

| West Approach | | |
|--------------------|--------|--------|
| Point/ Location | Top | Bottom |
| A - | 495.42 | 494.59 |
| B - | 494.32 | 493.49 |
| C - | 493.37 | 492.54 |
| D - | 495.23 | 494.40 |
| E - | 494.09 | 493.26 |
| F - | 493.11 | 492.28 |
| G - | 494.21 | 493.38 |
| H - | 493.97 | 493.14 |

(Sheet 1 of 3)

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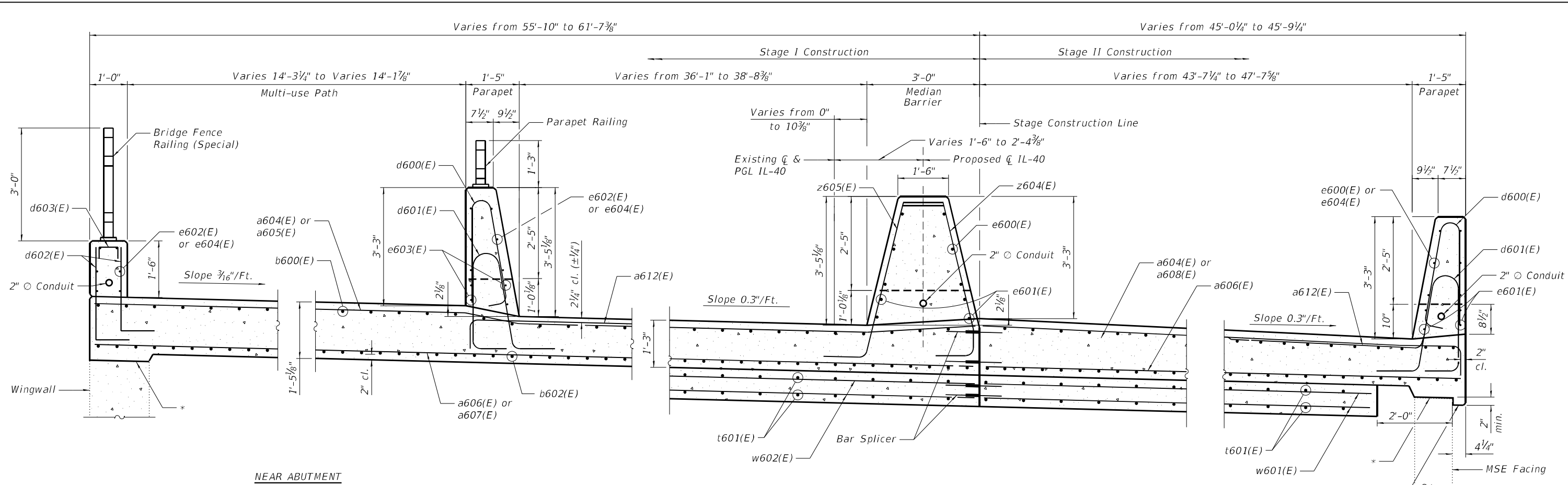
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| PLOT DATE = | DRAWN - DR | REVISED - |
| | CHECKED - EKM | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE WEST APPROACH SLAB DETAILS
STRUCTURE NO. 090-0122**

SHEET S-80 OF S-122 SHEETS

| | | | | |
|--------------|-----------------------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| CONTRACT NO. | | | 68F38 | |
| ILLINOIS | | FED. AID PROJECT | | |

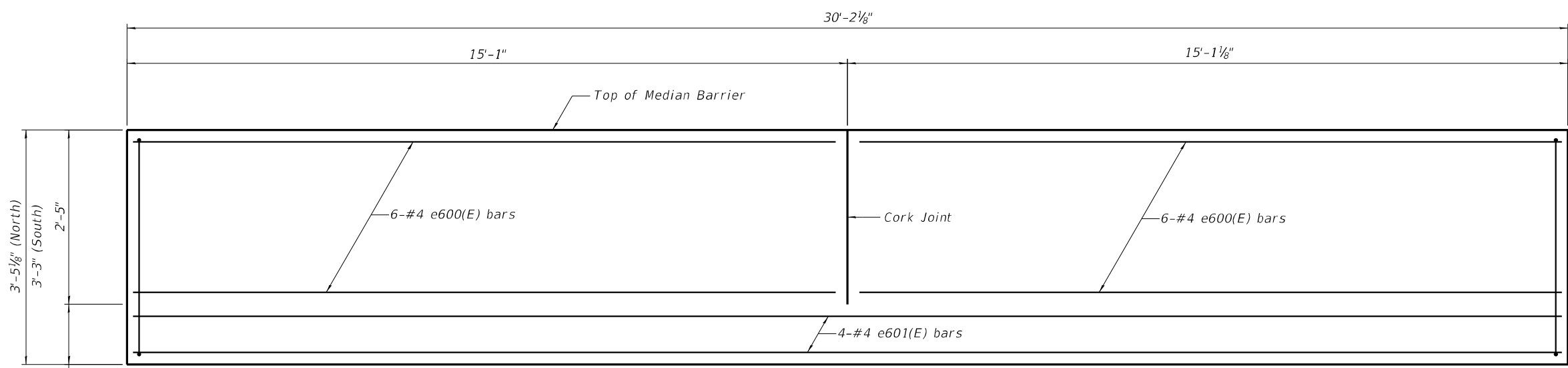


* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications.

SECTION B-B
(Looking East)

AT APPROACH FOOTING

Top of Exposed MSE Facing



MEDIAN BARRIER ELEVATION
(See Section B-B)

(Sheet 2 of 3)

MODEL: Default
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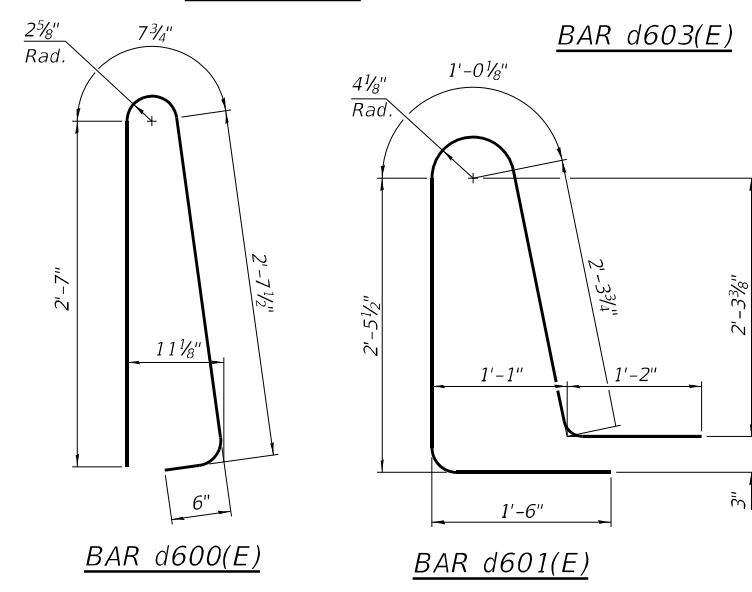
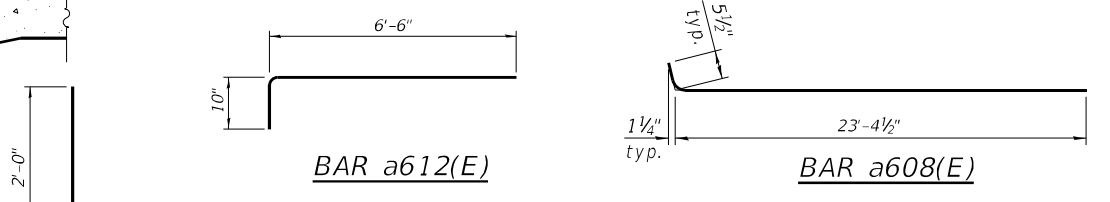
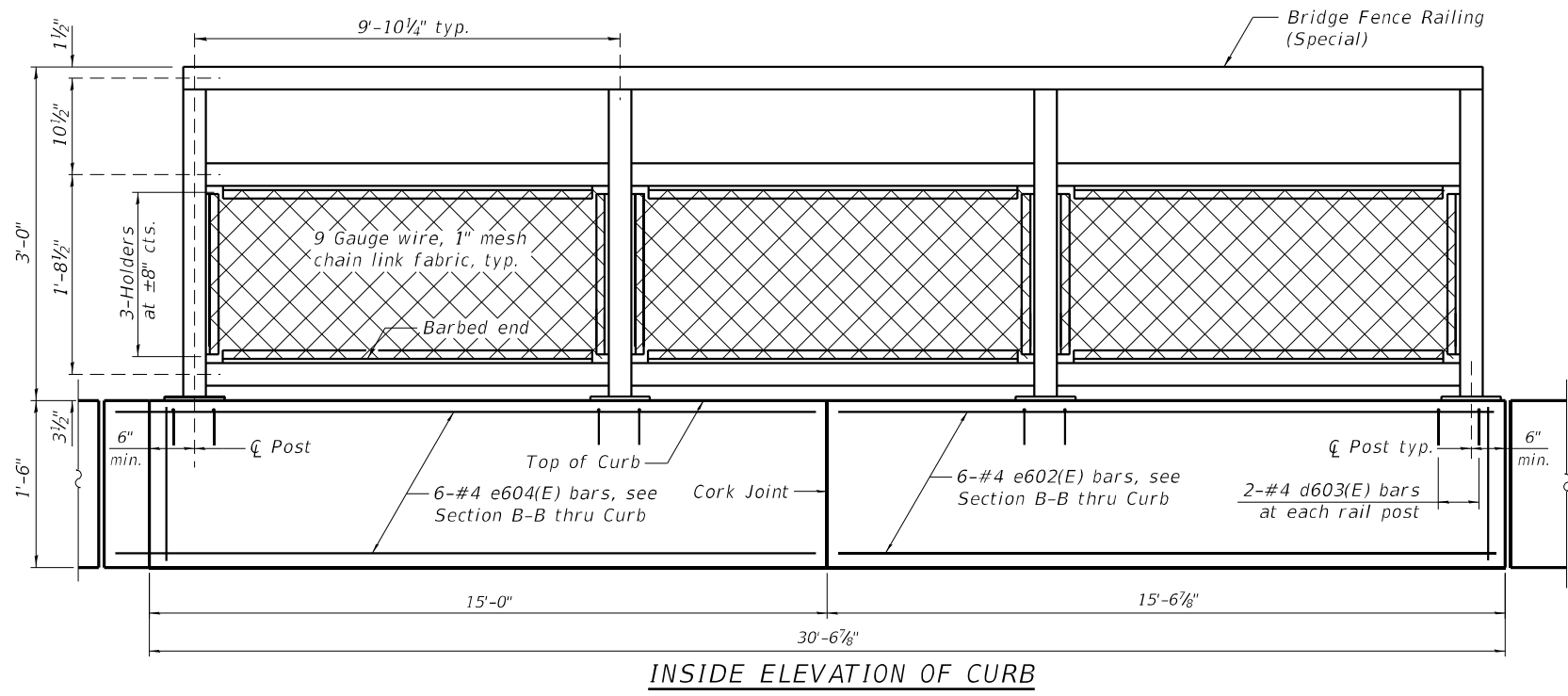
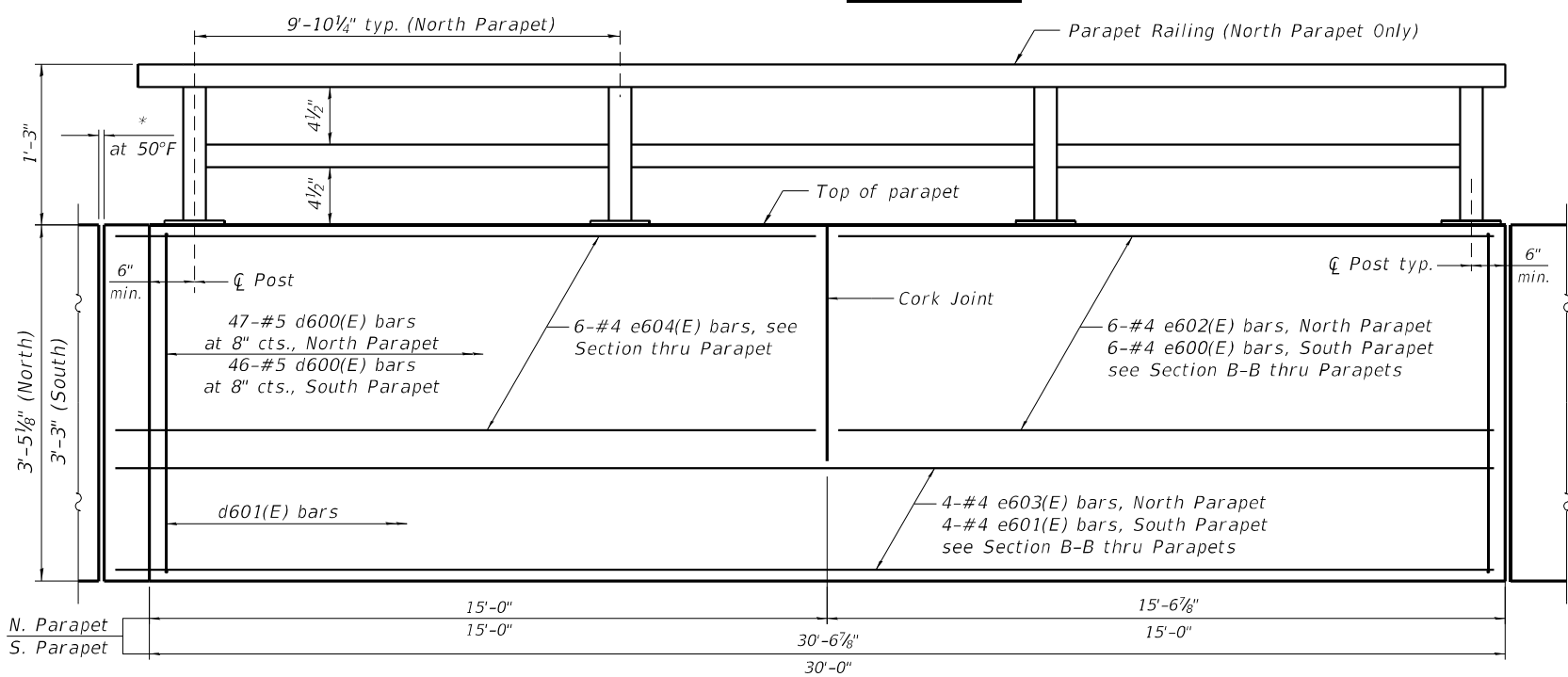
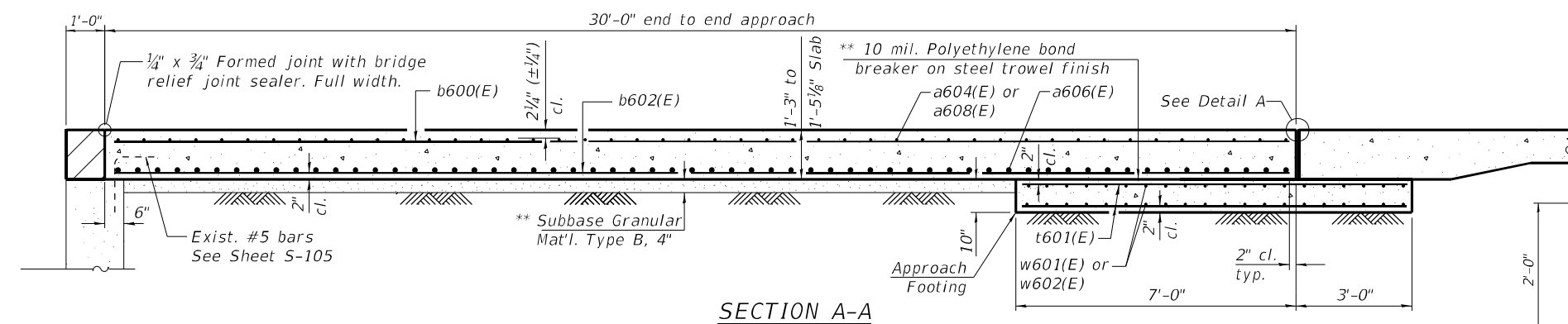
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE WEST APPROACH SLAB DETAILS
STRUCTURE NO. 090-0122

SHEET S-81 OF S-122 SHEETS

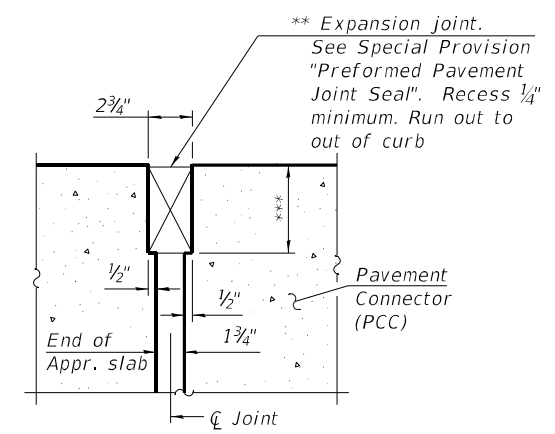
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|------------------|--------------|-----------|
| 404 | 50 (BDR, BJR, RRR, L) | | 286 | 212 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS | | FED. AID PROJECT | | |

Notes:
 Parapet, median barrier, and curb concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.



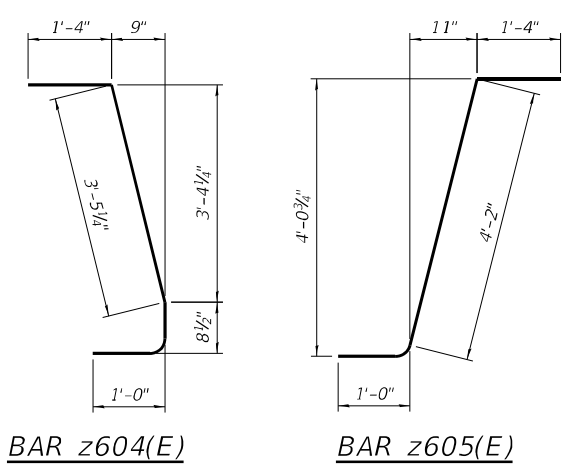
BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|-----|---------|---------|-------|
| a604(E) | 46 | #5 | 24'-6" | — |
| a605(E) | 92 | #5 | 32'-5" | — |
| a606(E) | 120 | #8 | 25'-2" | — |
| a607(E) | 120 | #8 | 33'-2" | — |
| a608(E) | 46 | #5 | 23'-10" | — |
| a612(E) | 92 | #5 | 7'-4" | — |
| b600(E) | 155 | #5 | 29'-8" | — |
| b601(E) | 14 | #9 | 32'-8" | — |
| b602(E) | 246 | #9 | 29'-8" | — |
| d600(E) | 93 | #5 | 6'-5" | — |
| d601(E) | 93 | #5 | 8'-6" | — |
| d602(E) | 94 | #5 | 3'-0" | L |
| d604(E) | 8 | #5 | 2'-8" | n |
| e600(E) | 18 | #4 | 14'-8" | — |
| e601(E) | 8 | #4 | 30'-8" | — |
| e602(E) | 12 | #4 | 15'-3" | — |
| e603(E) | 4 | #4 | 31'-3" | — |
| e604(E) | 18 | #4 | 15'-8" | — |
| t601(E) | 212 | #4 | 9'-8" | — |
| w601(E) | 80 | #5 | 23'-6" | — |
| w602(E) | 80 | #5 | 31'-8" | — |
| z604(E) | 18 | #5 | 6'-6" | — |
| z605(E) | 74 | #5 | 6'-6" | — |
| Concrete Superstructure (Approach Slab) | | Cu. Yd. | 147.5 | |
| Concrete Superstructure Concrete Structures | | Cu. Yd. | 17.4 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 31.8 | |
| Bridge Deck Grooving | | Sq. Yd. | 65,100 | |
| Protective Coat | | Sq. Yd. | 277 | |
| Bridge Fence Railing (Special) | | Foot | 398 | |
| Parapet Railing | | Foot | 30 | |



(Detail A shown, applies to Highway Standard 420401 only. Detail A for pavement connector (HMA) may be found on Highway Standard 420406.)

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



(Sheet 3 of 3)

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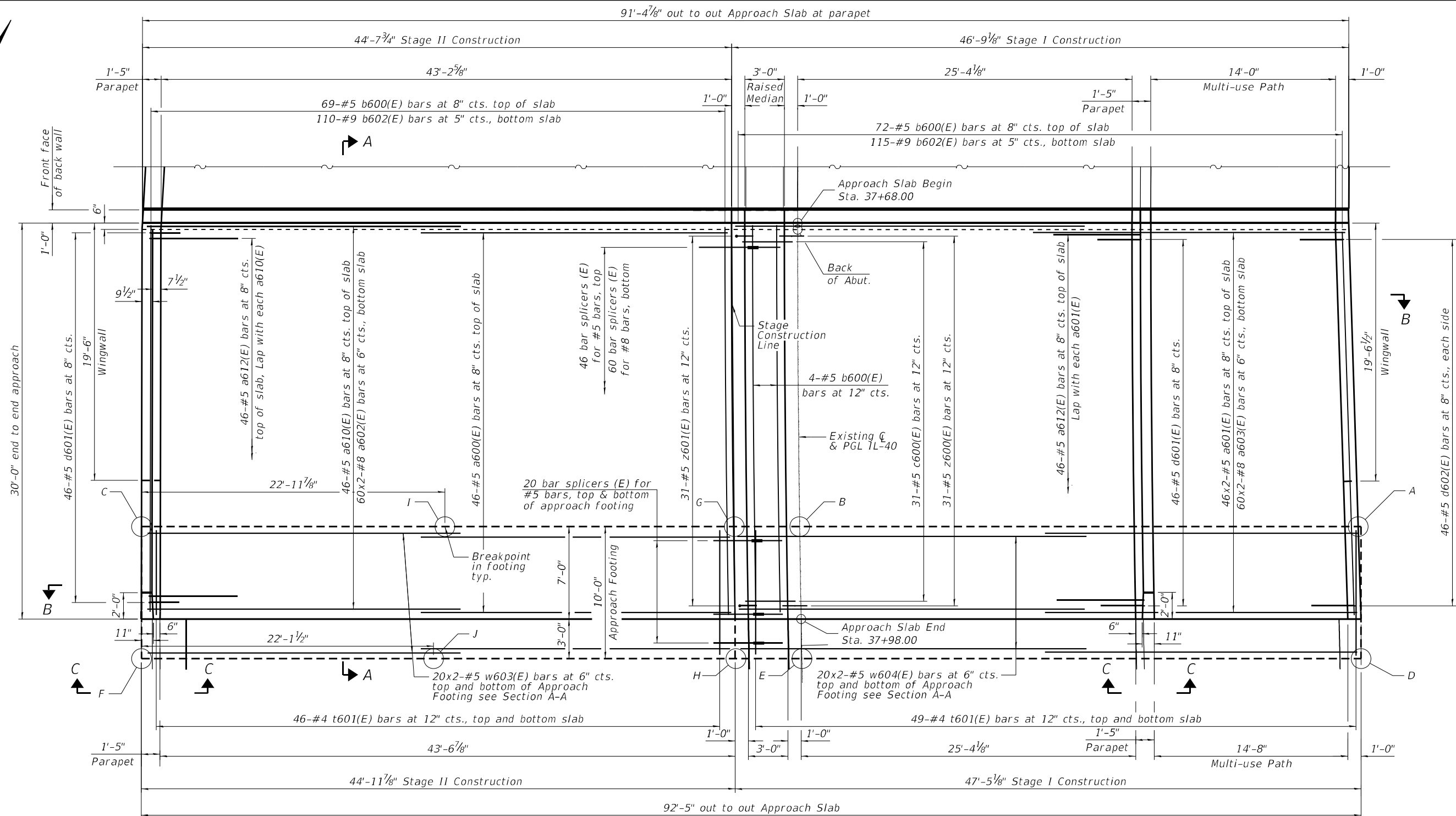
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE WEST APPROACH SLAB DETAILS
 STRUCTURE NO. 090-0122

SHEET S-82 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, RRR, L) | | 286 | 213 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS / FED. AID PROJECT | | | | |

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PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

MINIMUM BAR LAP

- #4 bar = 2'-5"
- #5 bar = 3'-4"
- #8 bar = 4'-9"

| East Approach | | |
|----------------|--------|--------|
| Point/Location | Top | Bottom |
| A - | 465.50 | 464.67 |
| B - | 466.54 | 465.71 |
| C - | 467.10 | 466.27 |
| D - | 465.23 | 464.40 |
| E - | 466.31 | 465.48 |
| F - | 466.94 | 466.11 |
| G - | 466.91 | 466.08 |
| H - | 466.71 | 465.88 |
| I - | 467.46 | 466.63 |
| J - | 467.29 | 466.45 |

(Sheet 1 of 3)

MODEL: Default
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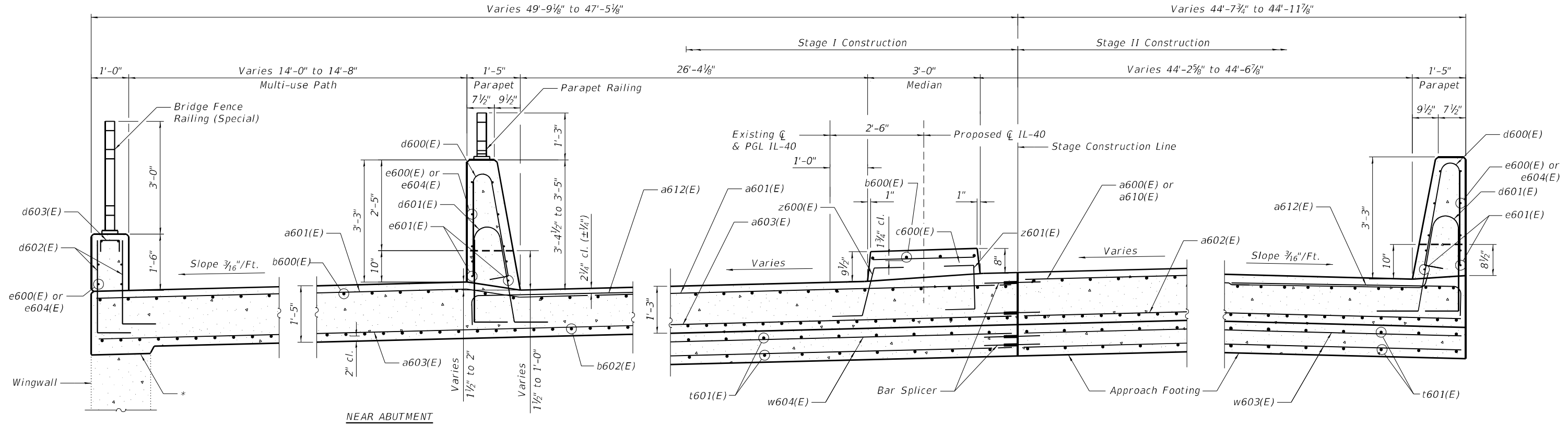
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE EAST APPROACH SLAB DETAILS
STRUCTURE NO. 090-0122

SHEET S-83 OF S-122 SHEETS

| | | | | |
|---------------------------|-----------------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |

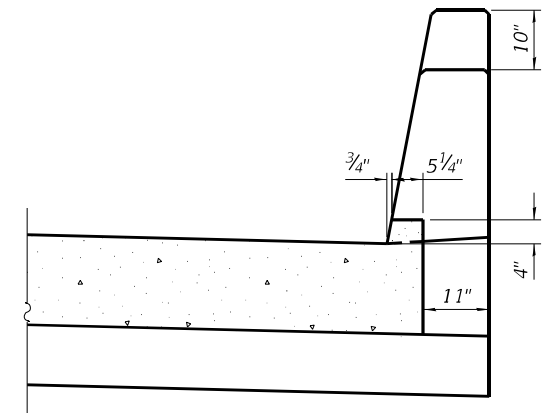
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* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications. Typ. each Wingwall.

SECTION B-B
(Looking East)

AT APPROACH FOOTING
(For Breakpoint Location on the approach footing, see plan on S-83)



SECTION C-C
(Other Parapet Mirror Image)

(Sheet 2 of 3)



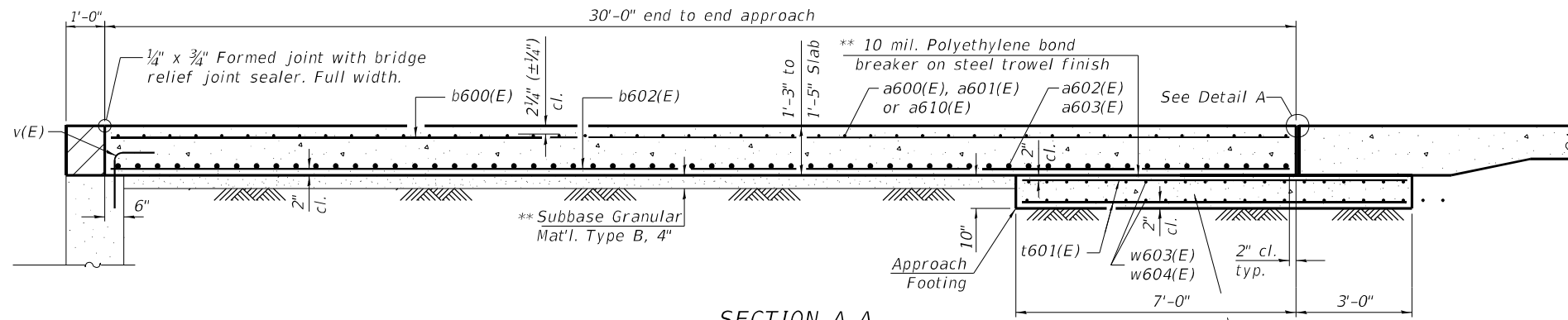
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

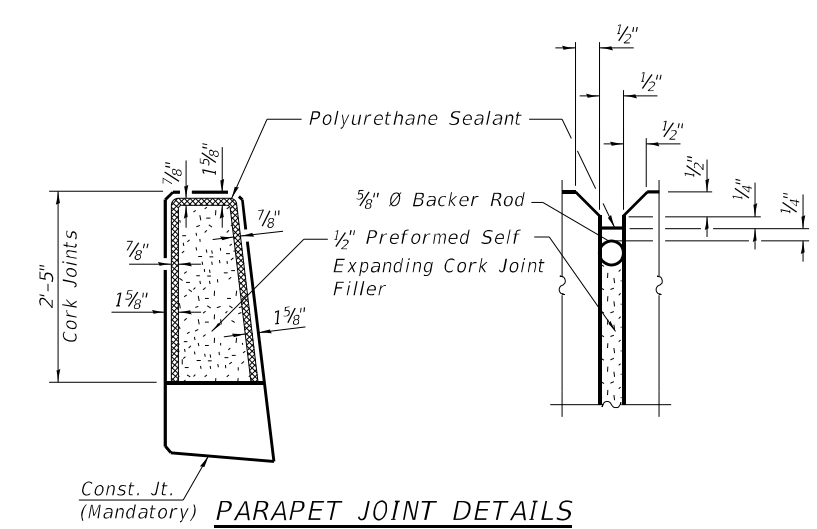
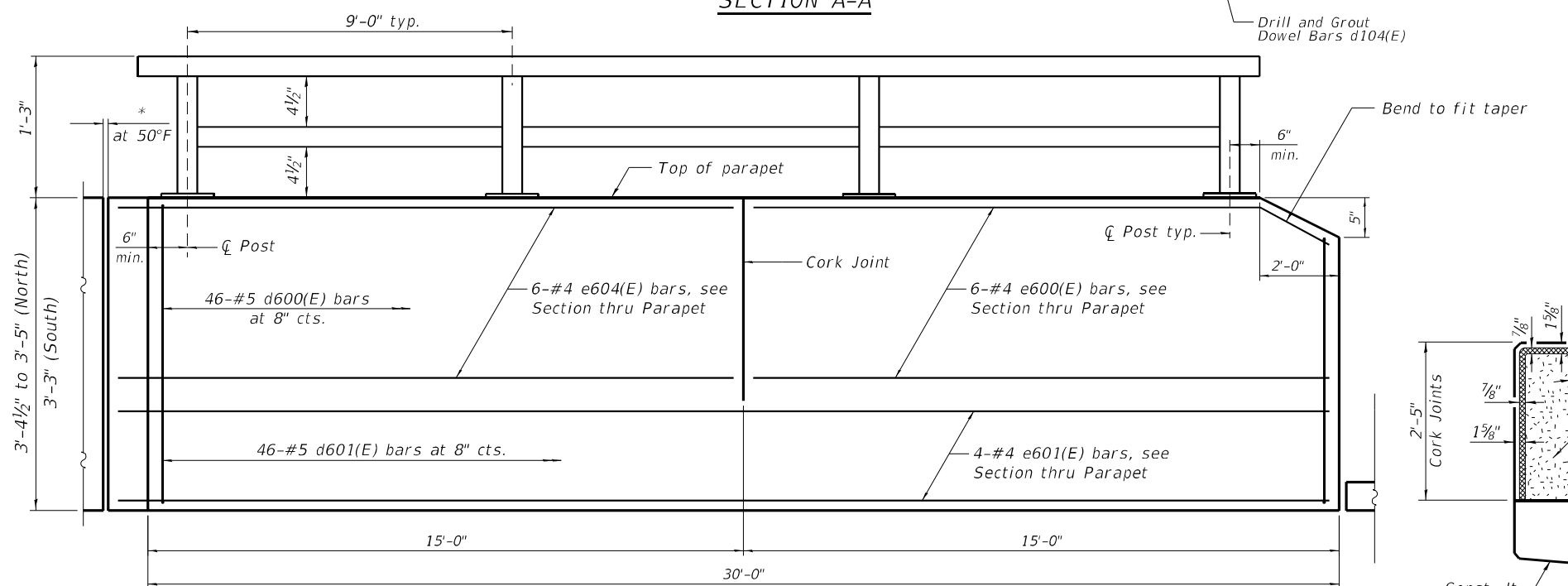
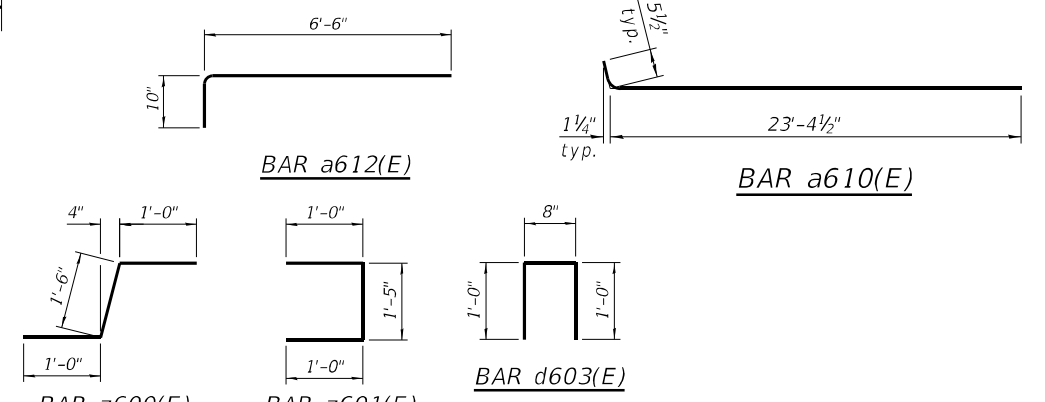
BRIDGE EAST APPROACH SLAB DETAILS
STRUCTURE NO. 090-0122

SHEET S-84 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, RRR, L) | | 286 | 215 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |



Notes:
 Parapet, median barrier, and curb concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 See sheet S-82 for bars d600 and d601 diagrams.

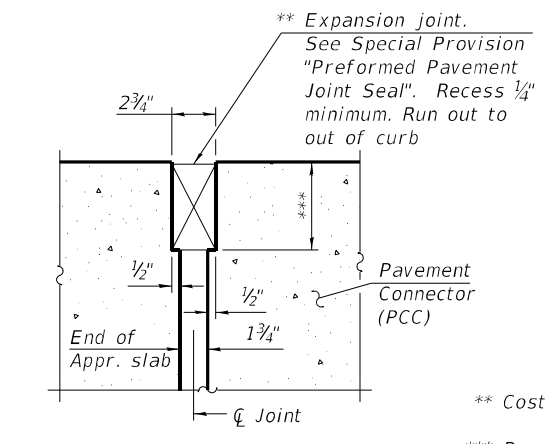
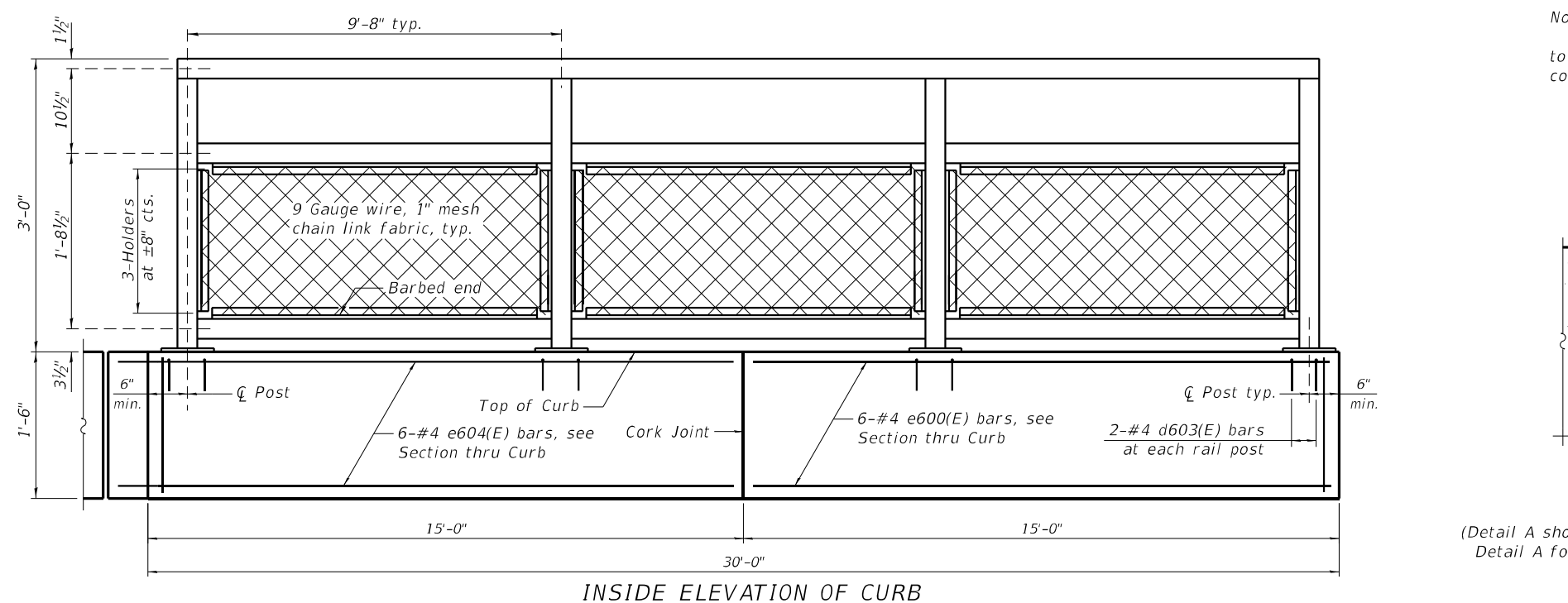


BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|-----|---------|--------|-------|
| a600(E) | 46 | #5 | 23'-9" | — |
| a601(E) | 92 | #5 | 25'-3" | — |
| a602(E) | 120 | #8 | 24'-9" | — |
| a603(E) | 120 | #8 | 26'-0" | — |
| a610(E) | 46 | #5 | 23'-6" | — |
| a612(E) | 92 | #5 | 7'-4" | — |
| b600(E) | 145 | #5 | 29'-8" | — |
| b602(E) | 225 | #9 | 29'-8" | — |
| c600(E) | 31 | #5 | 4'-9" | — |
| d600(E) | 92 | #5 | 6'-5" | — |
| d601(E) | 92 | #5 | 8'-6" | — |
| d602(E) | 92 | #5 | 3'-0" | — |
| d603(E) | 8 | #5 | 2'-8" | — |
| e600(E) | 18 | #4 | 14'-8" | — |
| e601(E) | 8 | #4 | 29'-8" | — |
| e604(E) | 18 | #4 | 15'-8" | — |
| t601(E) | 190 | #4 | 9'-8" | — |
| w603(E) | 80 | #5 | 24'-1" | — |
| w604(E) | 80 | #5 | 25'-4" | — |
| z600(E) | 31 | #5 | 3'-6" | — |
| z601(E) | 31 | #5 | 3'-5" | — |
| Concrete Superstructure (Approach Slab) | | Cu. Yd. | 130.7 | |
| Concrete Superstructure (Concrete Structures) | | Cu. Yd. | 12.9 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 56,850 | |
| Bridge Deck Grooving | | Sq. Yd. | 229 | |
| Protective Coat | | Sq. Yd. | 344 | |
| Bridge Fence Railing (Special) | | Foot | 29 | |
| Parapet Railing | | Foot | 27 | |

*See East Abutment Sheets for Details

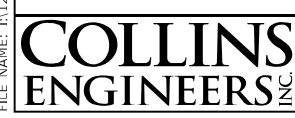
Note:
 The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.



DETAIL A
 (Detail A shown, applies to Highway Standard 420401 only. Detail A for pavement connector (HMA) may be found on Highway Standard 420406.)

(Sheet 3 of 3)

MODEL: Default
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 10/10/2022 12:30:21 PM



| | | |
|--------------|---------------|-----------|
| USER NAME = | DESIGNED - PS | REVISED - |
| PLOT SCALE = | CHECKED - MNC | REVISED - |
| PLOT DATE = | DRAWN - DR | REVISED - |
| | CHECKED - EKM | REVISED - |

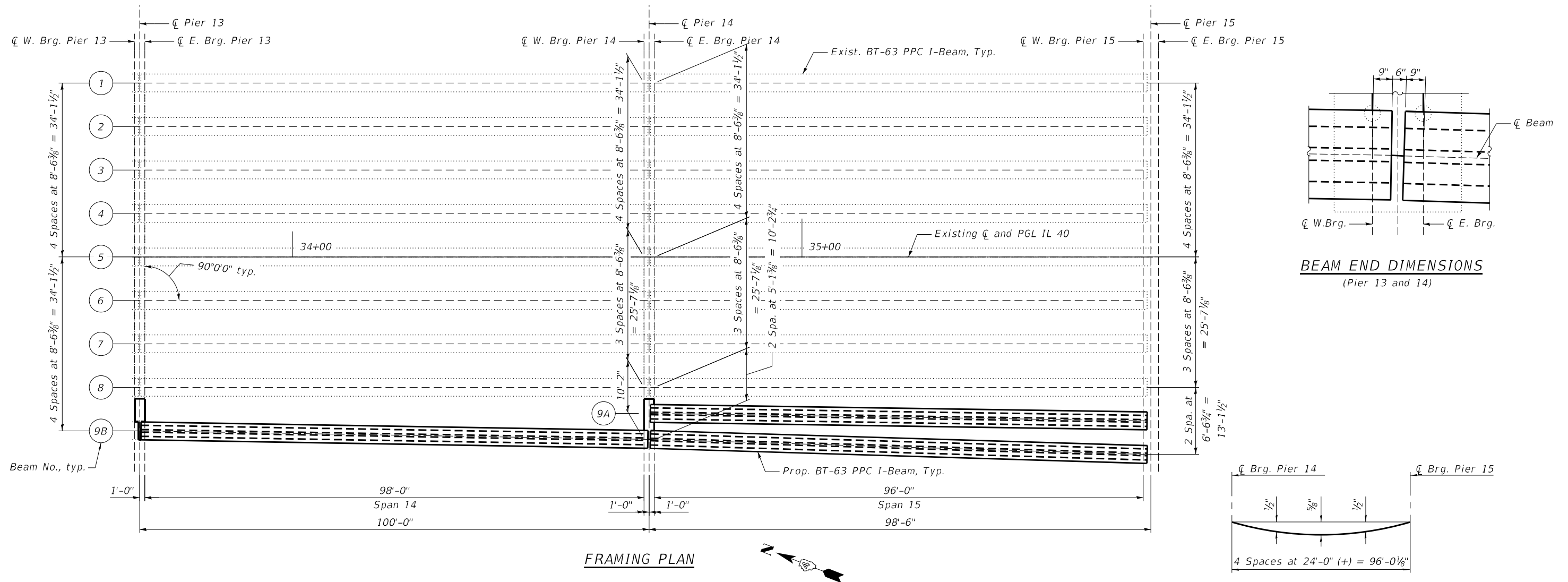
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE EAST APPROACH SLAB DETAILS
 STRUCTURE NO. 090-0122**

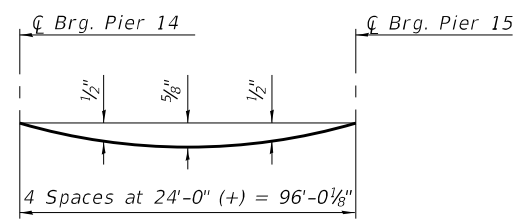
SHEET S-85 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|------------------|--------------|-----------|
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| CONTRACT NO. | | | 68F38 | |
| ILLINOIS | | FED. AID PROJECT | | |

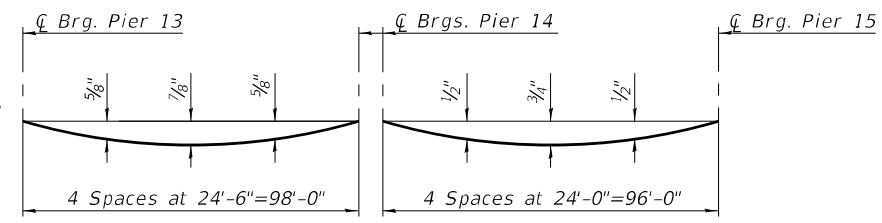
PEORIA / TAZEVELL



BEAM END DIMENSIONS
(Pier 13 and 14)



DEAD LOAD DEFLECTION DIAGRAM LINE 9A
(Includes weight of concrete, excluding beams).



DEAD LOAD DEFLECTION DIAGRAM LINE 9B
(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

| INTERIOR BEAM 9A MOMENT TABLE | | |
|-------------------------------|--------------------|------------|
| | | 0.5 Sp. 15 |
| I | (in ⁴) | 392,638 |
| I' | (in ⁴) | 737,987 |
| Sb | (in ³) | 12,224 |
| Sb' | (in ³) | 16,075 |
| St | (in ³) | 12,715 |
| St' | (in ³) | 29,414 |
| Q | (k/') | 1.407 |
| M _Q | (k) | 1,638 |
| s _Q | (k/') | 0.310 |
| M _{s_Q} | (k) | 361 |
| M _L | (k) | 776 |
| MI | (k) | 171 |

| EXTERIOR BEAM 9B MOMENT TABLE | | | | |
|-------------------------------|--------------------|------------|---------|------------|
| | | 0.5 Sp. 14 | Pier 14 | 0.6 Sp. 15 |
| I | (in ⁴) | 392,638 | 392,638 | 392,638 |
| I' | (in ⁴) | 799,411 | 815,991 | 772,843 |
| Sb | (in ³) | 12,224 | 12,224 | 12,224 |
| Sb' | (in ³) | 16,537 | 16,653 | 16,343 |
| St | (in ³) | 12,715 | 12,715 | 12,715 |
| St' | (in ³) | 35,279 | 37,091 | 32,596 |
| Q | (k/') | 1.616 | 1.554 | 1.492 |
| M _Q | (k) | 1,940 | --- | 1,673 |
| s _Q | (k/') | 0.310 | 0.310 | 0.310 |
| M _{s_Q} | (k) | 200 | 564 | 341 |
| M _L | (k) | 633 | 491 | 687 |
| MI | (k) | 139 | 110 | 158 |

| INTERIOR BEAM 9A MOMENT TABLE | | | |
|-------------------------------|-----|---------|---------|
| | | Pier 14 | Pier 15 |
| R _Q | (k) | 73.5 | 69.0 |
| R _{s_Q} | (k) | 14.9 | 14.9 |
| R _L | (k) | 30.2 | 38.8 |
| RI | (k) | 6.6 | 8.5 |
| R _{Total} | (k) | 125.2 | 131.2 |

| EXTERIOR BEAM 9B MOMENT TABLE | | | | | | |
|-------------------------------|-----|---------|---------|---------|-------|-------|
| | | Pier 13 | Pier 14 | Pier 15 | | |
| R _Q | (k) | 84.1 | 82.5 | 81.5 | 72.4 | 73.4 |
| R _{s_Q} | (k) | 56.8 | 62.9 | 62.9 | 20.6 | 20.6 |
| R _L | (k) | 71.8 | 60.6 | 60.6 | 36.7 | 36.7 |
| RI | (k) | 15.8 | 13.6 | 13.6 | 8.4 | 8.4 |
| R _{Total} | (k) | 311.0 | 290.9 | 290.9 | 139.1 | 139.1 |

I: Non-composite moment of inertia of beam section (in⁴).
 I': Composite moment of inertia of beam section (in⁴).
 Sb: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
 Sb': Composite section modulus for the bottom fiber of the prestressed beam (in³).
 St: Non-composite section modulus for the top fiber of the prestressed beam (in³).
 St': Composite section modulus for the top fiber of the prestressed beam (in³).
 Q: Un-factored non-composite dead load (kips/ft.).
 M_Q: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
 s_Q: Un-factored long-term composite (superimposed) dead load (kips/ft.).
 M_{s_Q}: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
 M_L: Un-factored live load moment on the composite section (kip-ft.).
 MI: Un-factored moment due to impact on the composite section (kip-ft.).

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

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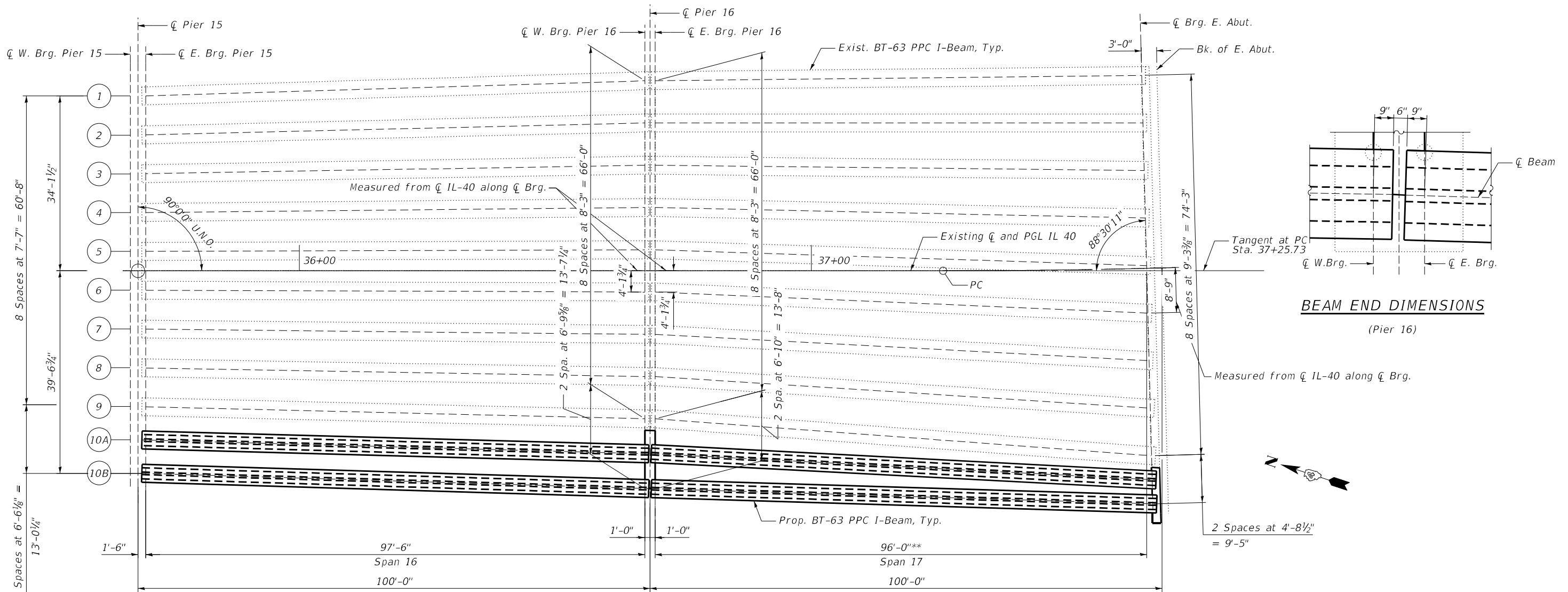
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| | DATE - 10/12/22 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED FRAMING UNIT 4
STRUCTURE NO. 090-0122

SHEET 5-86 OF S-122 SHEETS

| | | | | |
|-----------------|-------------------------------|------------------|--------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY * | TOTAL SHEETS 286 | SHEET NO. 217 |
| | | | CONTRACT NO. 68F38 | |
| ILLINOIS | | FED. AID PROJECT | | |



PLAN

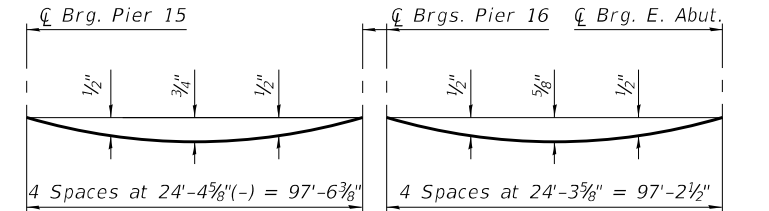
| | 0.4 Sp. 16 | Pier 16 | 0.6 Sp. 17 |
|----------------------------|----------------------------|---------|------------|
| I | (in ⁴) 392,638 | 392,638 | 392,638 |
| I' | (in ⁴) 730,555 | 736,049 | 693,896 |
| Sb | (in ³) 12,224 | 12,224 | 12,224 |
| Sb' | (in ³) 16,017 | 16,060 | 15,717 |
| St | (in ³) 12,715 | 12,715 | 12,715 |
| St' | (in ³) 28,773 | 29,243 | 25,843 |
| Q | (k/ft) 1.472 | 1.433 | 1.570 |
| M _Q | (k) 1,749 | - | 1,570 |
| S _Q | (k/ft) 0.499 | 0.499 | 0.499 |
| M _{S_Q} | (k) 351 | 587 | 340 |
| M _L | (k) 741 | 448 | 594 |
| MI | (k) 163 | 112 | 137 |

| | 0.4 Sp. 16 | Pier 16 | 0.6 Sp. 17 |
|----------------------------|----------------------------|---------|------------|
| I | (in ⁴) 392,638 | 392,638 | 392,638 |
| I' | (in ⁴) 739,281 | 753,375 | 724,138 |
| Sb | (in ³) 12,224 | 12,224 | 12,224 |
| Sb' | (in ³) 16,085 | 16,195 | 16,324 |
| St | (in ³) 12,715 | 12,715 | 12,715 |
| St' | (in ³) 29,524 | 30,775 | 27,182 |
| Q | (k/ft) 1.438 | 1.422 | 1.406 |
| M _Q | (k) 1,710 | - | 1,662 |
| S _Q | (k/ft) 0.499 | 0.499 | 0.499 |
| M _{S_Q} | (k) 351 | 587 | 340 |
| M _L | (k) 706 | 473 | 616 |
| MI | (k) 155 | 107 | 142 |

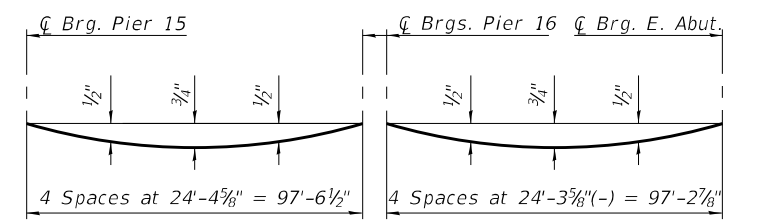
| | Pier 15 | Pier 16 | E. Abut. |
|----------------------------|-----------|---------|----------|
| R _Q | (k) 71.5 | 76.6 | 74.0 |
| R _{S_Q} | (k) 18.8 | 62.4 | 18.7 |
| R _L | (k) 37.5 | 65.2 | 46.7 |
| R _I | (k) 8.3 | 14.7 | 10.7 |
| R _{Total} | (k) 126.7 | 285.6 | 136.0 |

| | Pier 15 | Pier 16 | E. Abut. |
|----------------------------|-----------|---------|----------|
| R _Q | (k) 72.6 | 76.2 | 75.0 |
| R _{S_Q} | (k) 18.8 | 62.4 | 18.7 |
| R _L | (k) 33.5 | 66.6 | 31.3 |
| R _I | (k) 7.4 | 15.0 | 7.2 |
| R _{Total} | (k) 132.3 | 287.8 | 122.7 |

- I: Non-composite moment of inertia of beam section (in⁴).
- I': Composite moment of inertia of beam section (in⁴).
- Sb: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- Sb': Composite section modulus for the bottom fiber of the prestressed beam (in³).
- St: Non-composite section modulus for the top fiber of the prestressed beam (in³).
- St': Composite section modulus for the top fiber of the prestressed beam (in³).
- Q: Un-factored non-composite dead load (kips/ft.).
- M_Q: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
- S_Q: Un-factored long-term composite (superimposed) dead load (kips/ft.).
- M_{S_Q}: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- M_L: Un-factored live load moment on the composite section (kip-ft.).
- MI: Un-factored moment due to impact on the composite section (kip-ft.).



DEAD LOAD DEFLECTION DIAGRAM LINE 10A
(Includes weight of concrete, excluding beams).



DEAD LOAD DEFLECTION DIAGRAM LINE 10B
(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

NOTES:
**Span length parallel to ζ IL-40
Tangent = $97'-0\frac{1}{2}\frac{1}{16}$ " for Beam 10A
and $97'-2\frac{1}{16}$ " for Beam 10B

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

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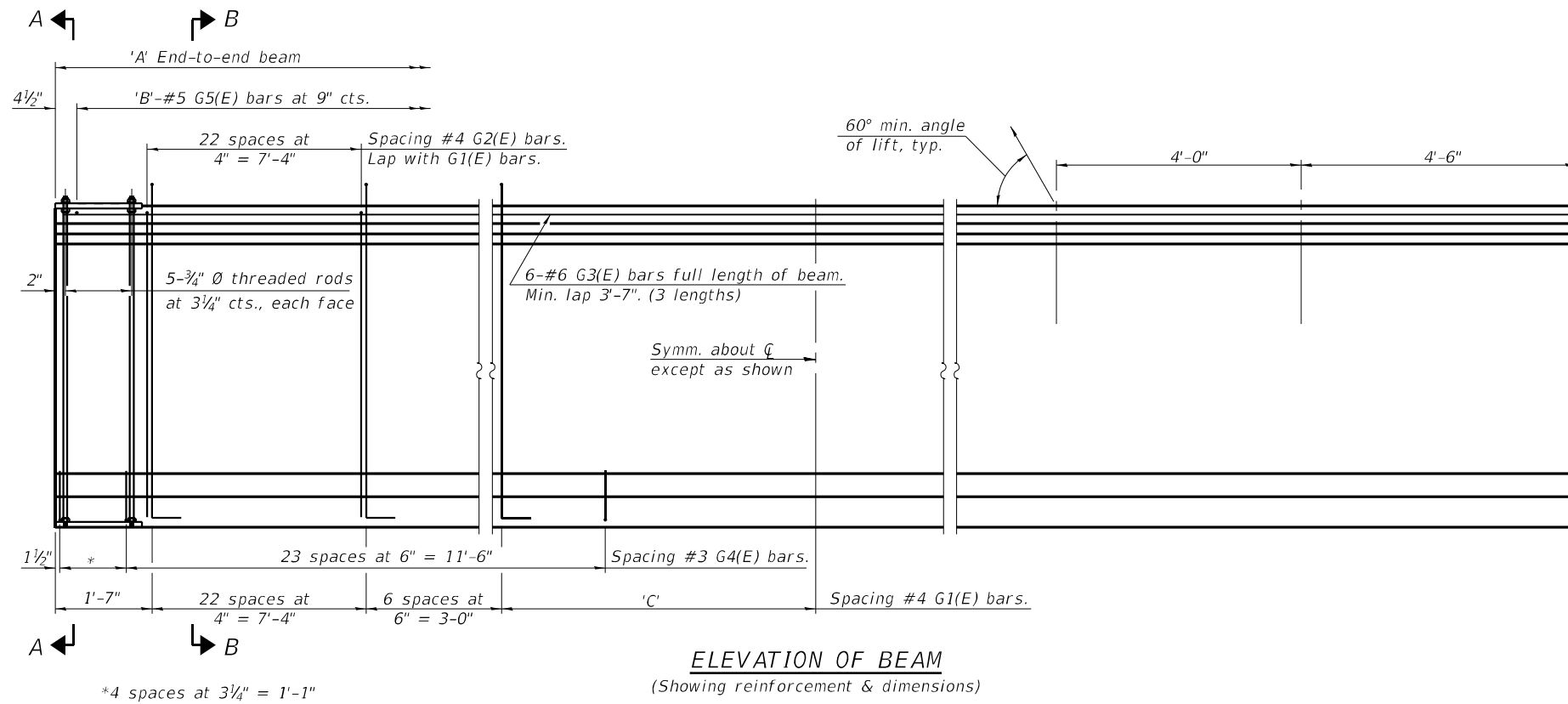
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| DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

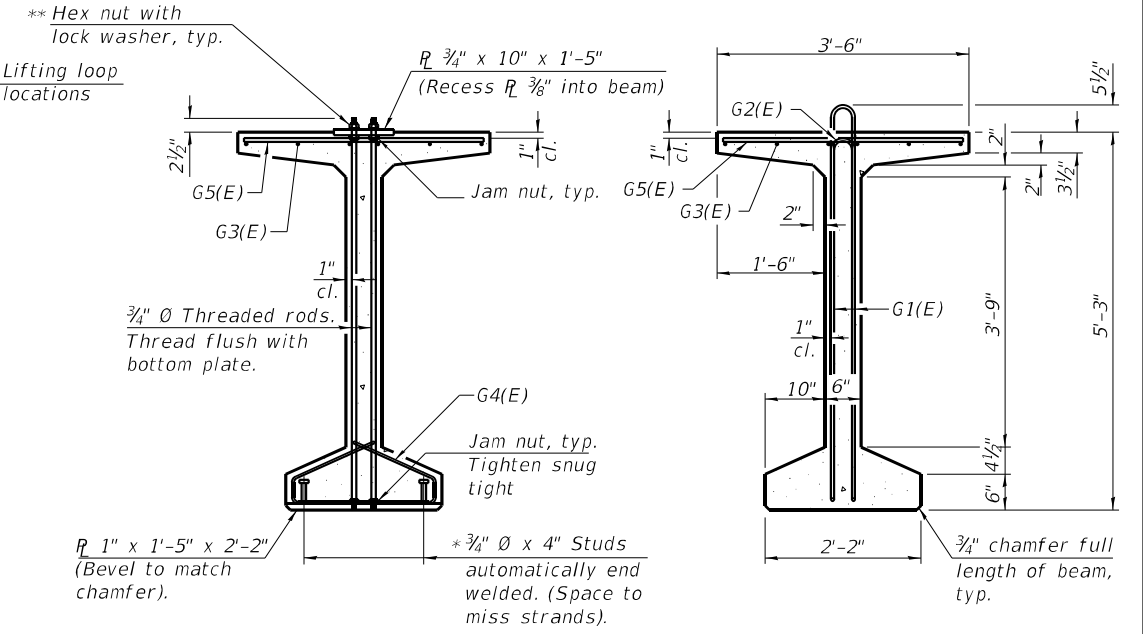
PROPOSED FRAMING UNIT 5
STRUCTURE NO. 090-0122

SHEET 5-87 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 218 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |



ELEVATION OF BEAM
(Showing reinforcement & dimensions)



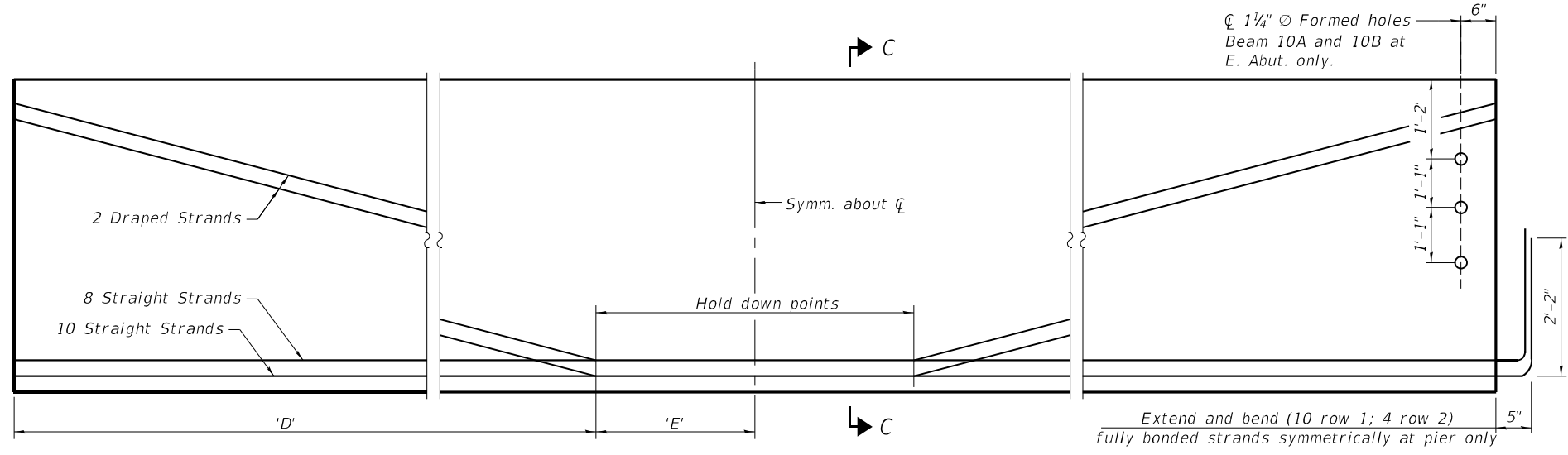
SECTION A-A

** Only tighten sufficiently to compress lock washers

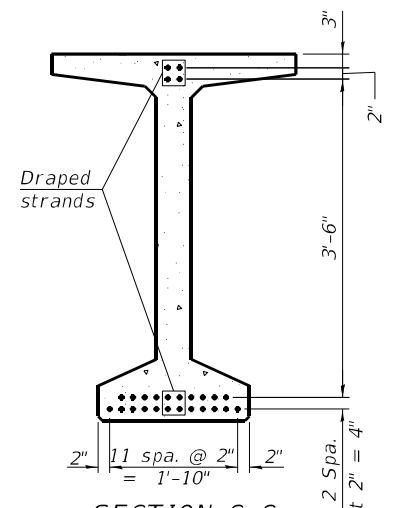
SECTION B-B

BAR LIST
BEAM 9B, SPAN 14
(For information only)

| Bar | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| G1(E) | 159 | #4 | 12'-1" | ⌈⌋ |
| G2(E) | 46 | #4 | 10'-2" | ⌈⌋ |
| G3(E) | 18 | #6 | 35'-6" | ⌈⌋ |
| G4(E) | 48 | #3 | 4'-11" | ⌈⌋ |
| G5(E) | 133 | #5 | 3'-4" | ⌈⌋ |
| G6(E) | 14 | #4 | 1'-8" | ⌈⌋ |



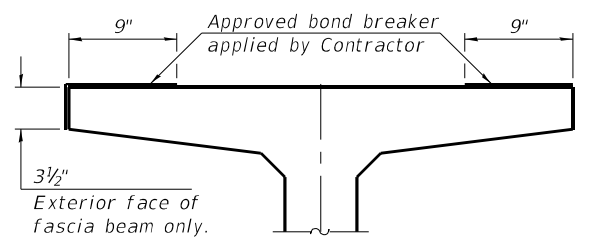
ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C
(22-1/2" Ø 270 ksi strands)

BEAM DIMENSIONS AND REINFORCEMENT LAYOUT

| Beam/Location | A | B | C | D | E |
|-------------------|------------|-----|------------------------------------|--------|----------------|
| Beam 9B, Span 14 | 99'-6 1/8" | 133 | 51 spa. @ 9" max. = 37'-10" (+) | 39'-9" | 10'-0" (+) |
| Beam 10A, Span 17 | 98'-8 1/2" | 131 | 50 spa. @ 9" max. = 37'-5 1/4" | 39'-5" | 9'-11 1/4" |
| Beam 10B, Span 17 | 98'-8 7/8" | 131 | 51 spa. @ 9" max. = 37'-5 3/8" (+) | 39'-5" | 9'-11 3/8" (+) |



SECTION THRU TOP FLANGE
(Showing limits of bond breaker)

Notes:
See sheet S-91 for additional details and Bill of Material.

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PBT-4-63 2-17-2017



| | | |
|----------------------------|-------------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
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| PLOT DATE = 10/14/2022 | CHECKED - BWS | REVISED - |
| | DATE - 10/14/2022 | REVISED - |

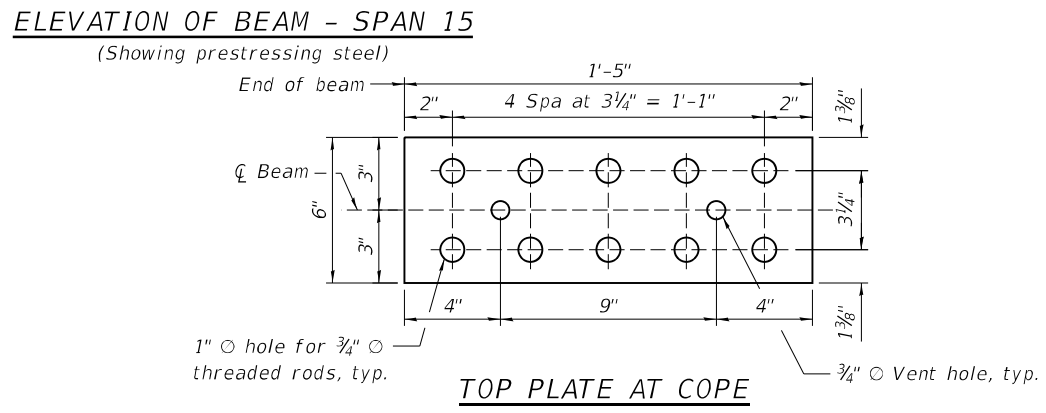
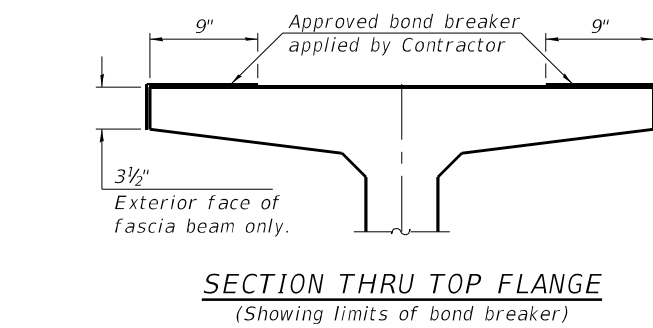
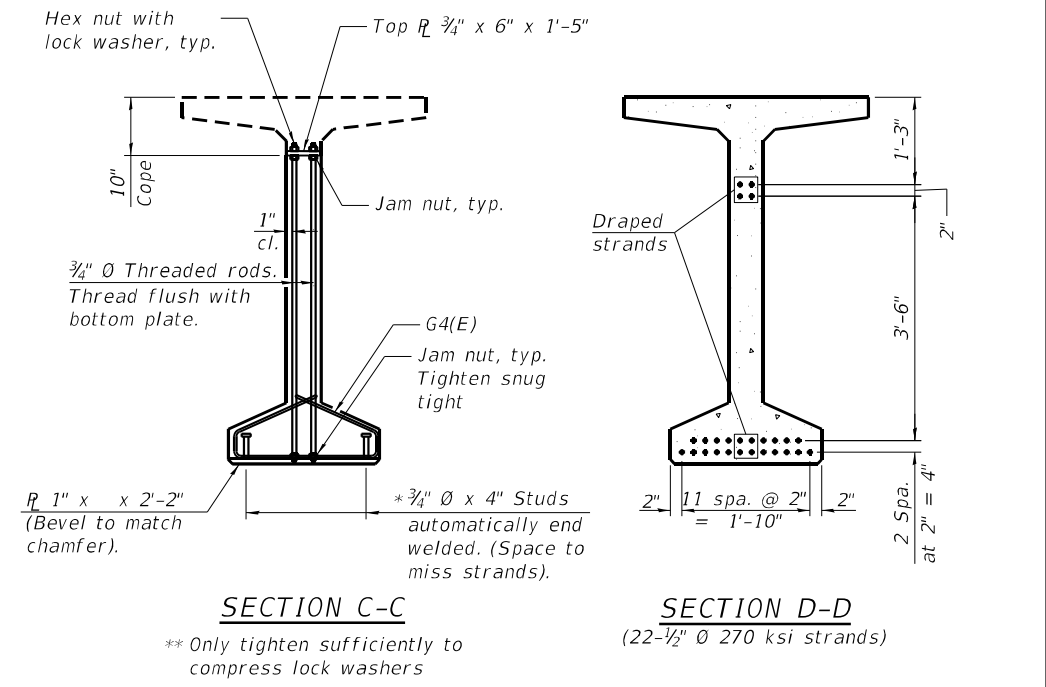
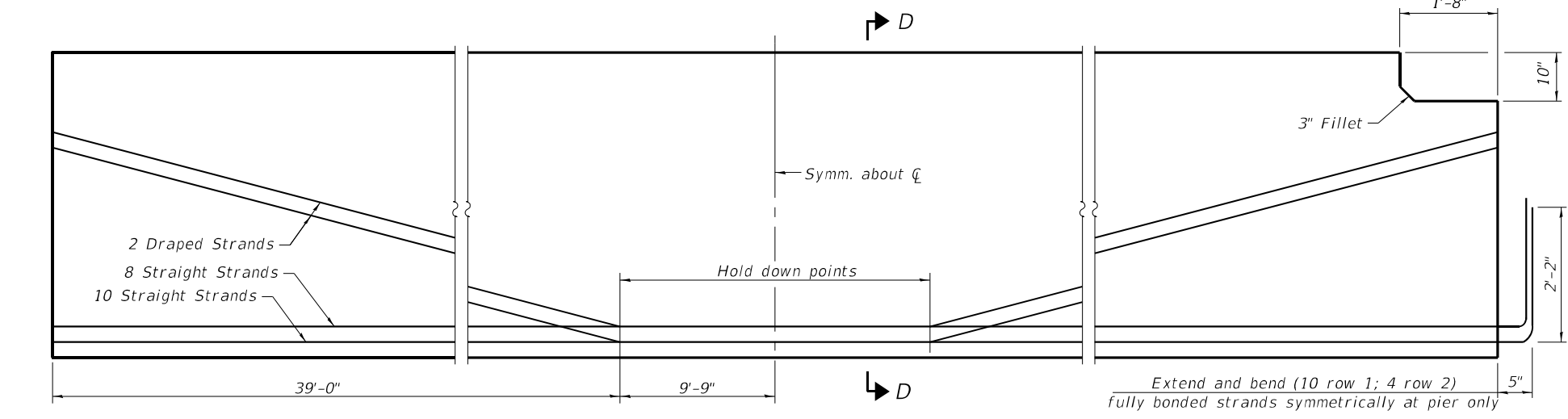
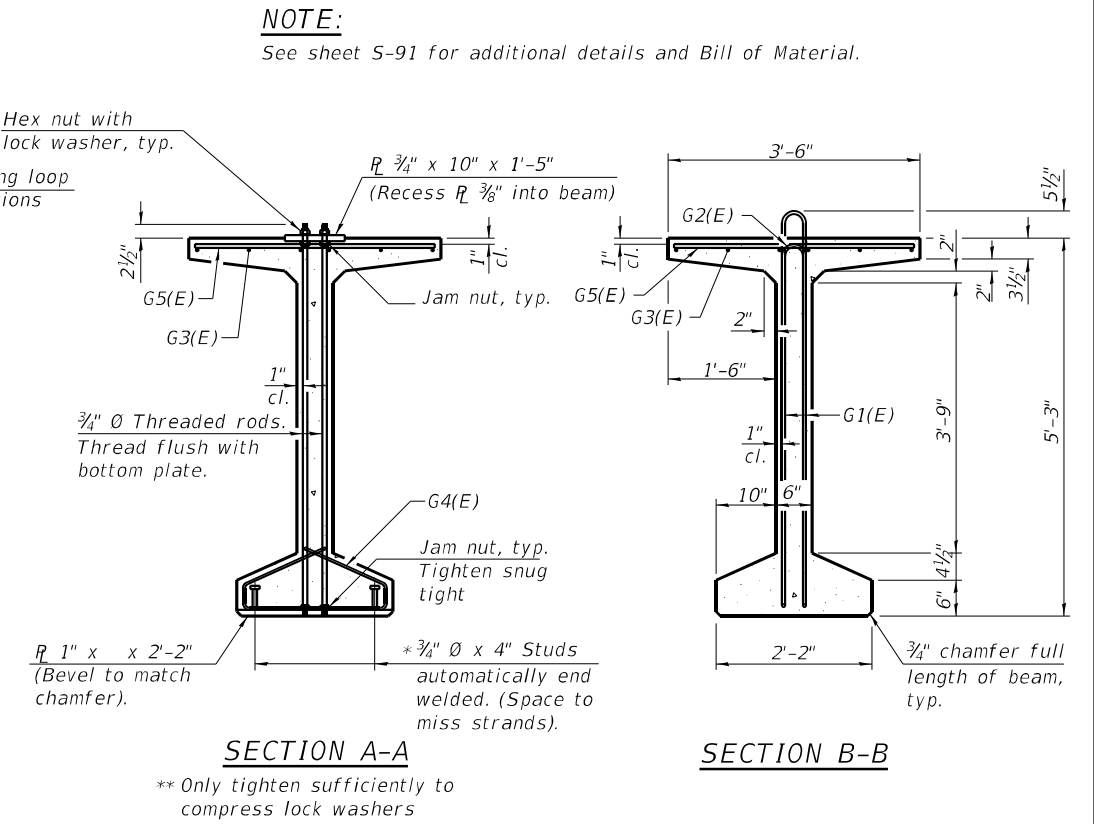
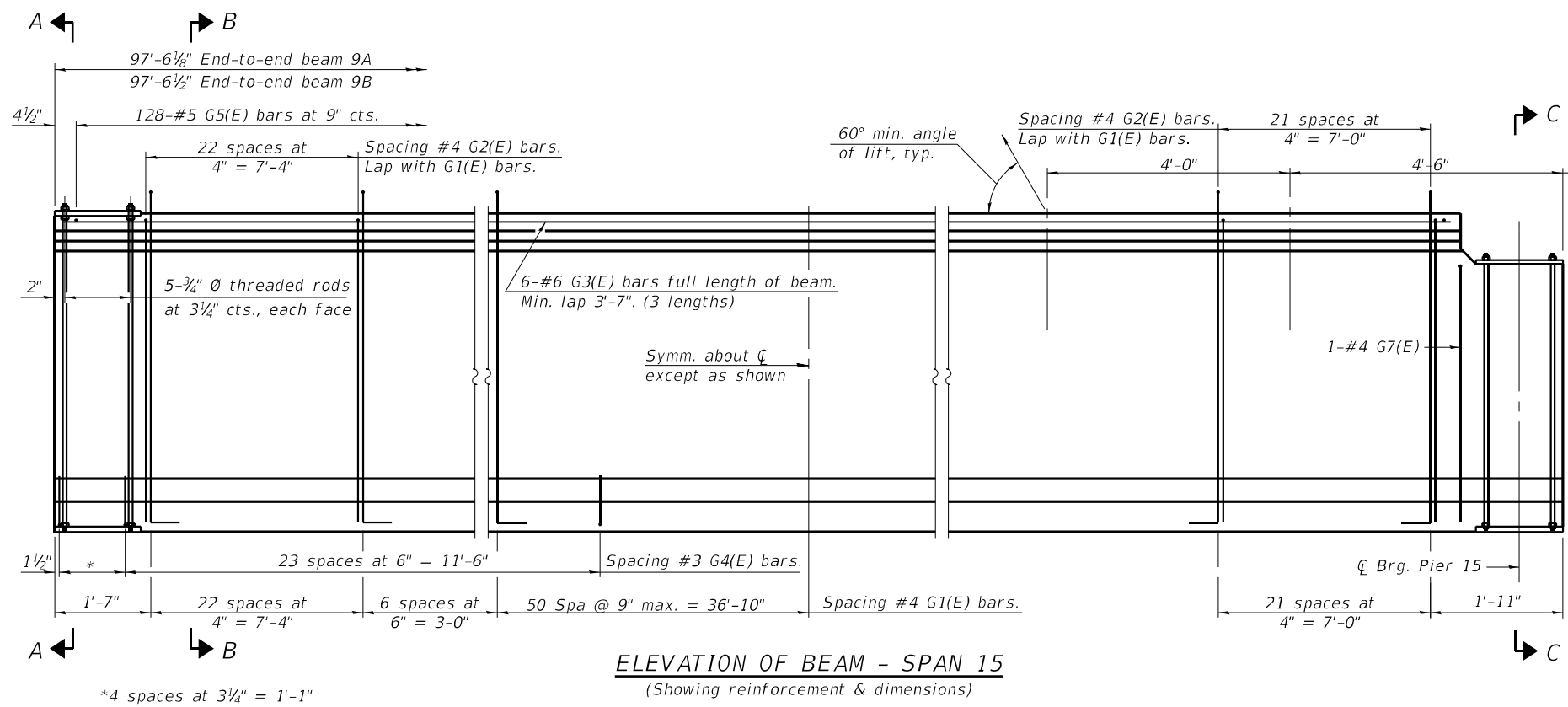
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC I-BEAM DETAIL I
STRUCTURE NO. 090-0122

SHEET 5-88 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 219 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |

PEORIA / TAZEVELL



BAR LIST
BEAM 9A, SPAN 15
(For information only)

| Bar | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| G1(E) | 156 | #4 | 12'-1" | ∩L |
| G2(E) | 45 | #4 | 10'-2" | ∩ |
| G3(E) | 18 | #6 | 34'-3" | — |
| G4(E) | 48 | #3 | 4'-11" | ⊠ |
| G5(E) | 128 | #5 | 3'-4" | — |
| G7(E) | 1 | #4 | 8'-7" | ∩ |

BAR LIST
BEAM 9B, SPAN 15
(For information only)

| Bar | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| G1(E) | 156 | #4 | 12'-1" | ∩L |
| G2(E) | 45 | #4 | 10'-2" | ∩ |
| G3(E) | 18 | #6 | 34'-3" | — |
| G4(E) | 48 | #3 | 4'-11" | ⊠ |
| G5(E) | 128 | #5 | 3'-4" | — |
| G7(E) | 1 | #4 | 8'-7" | ∩ |

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PBT-4-63 2-17-2017



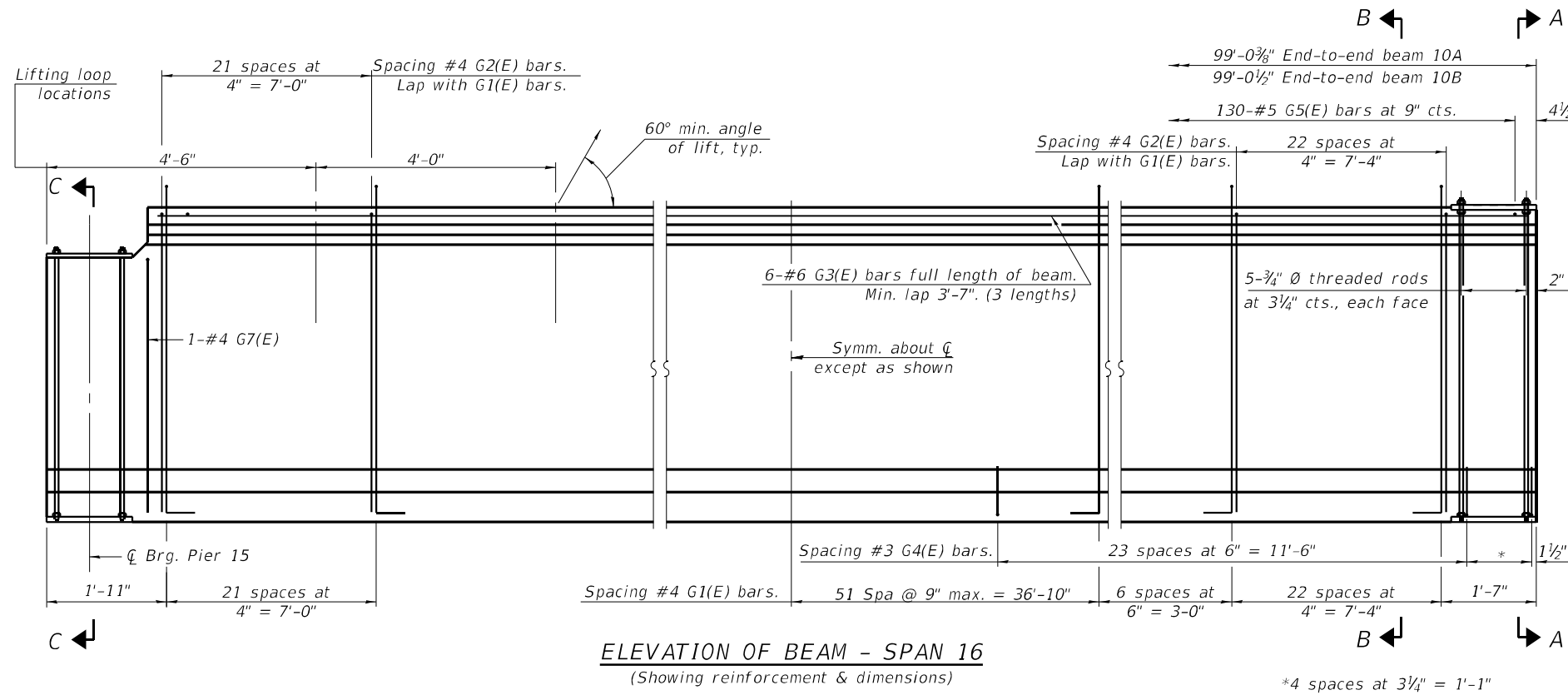
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| | DATE - 10/14/2022 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

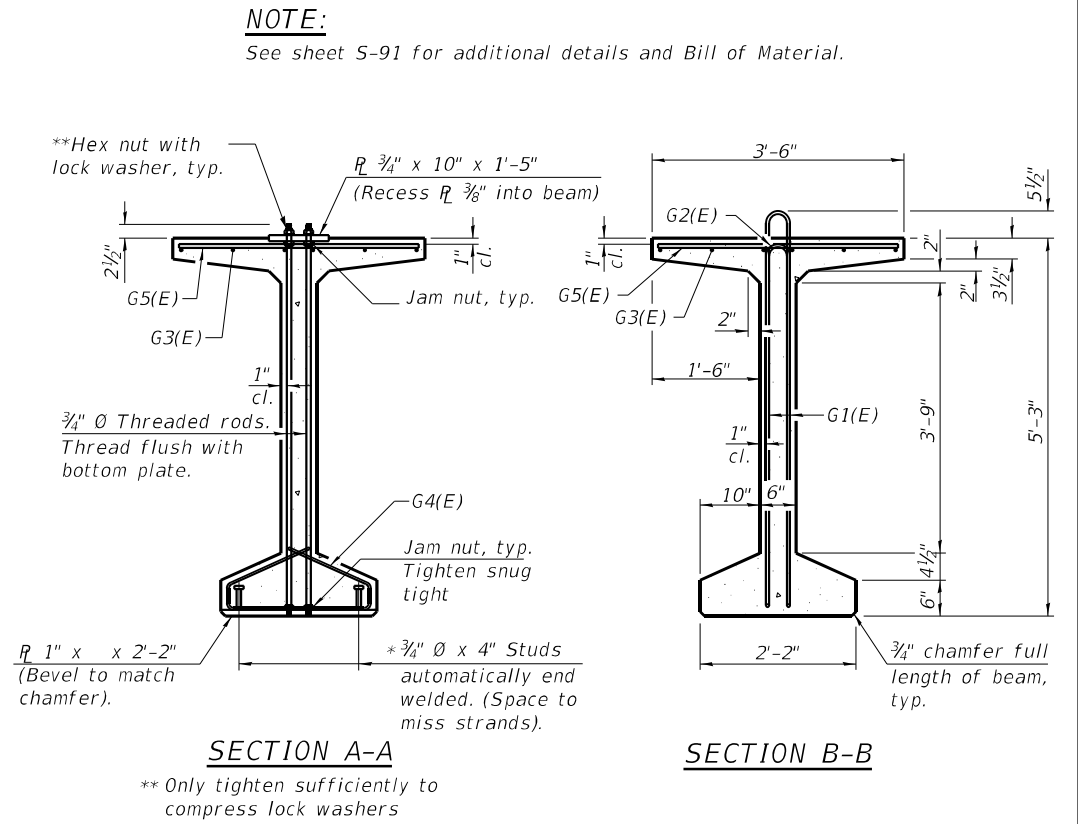
PPC I-BEAM DETAIL II
STRUCTURE NO. 090-0122

SHEET 5-89 OF S-122 SHEETS

| | | | | |
|--------------------|-------------------------------|----------|---------------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY - | TOTAL SHEETS 286 | SHEET NO. 220 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT | |

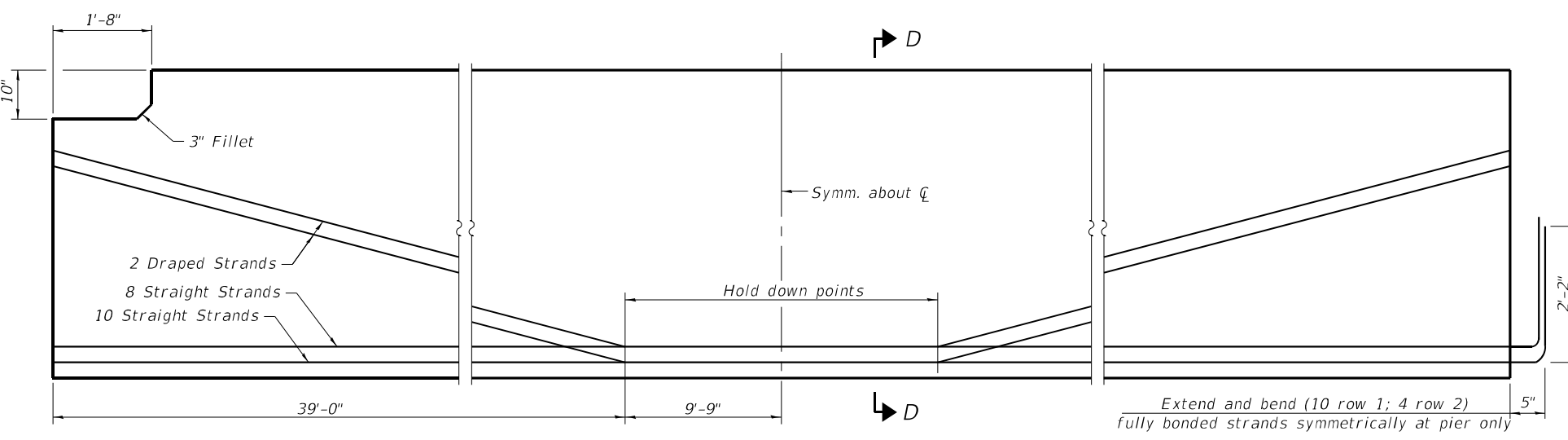


ELEVATION OF BEAM - SPAN 16
(Showing reinforcement & dimensions)

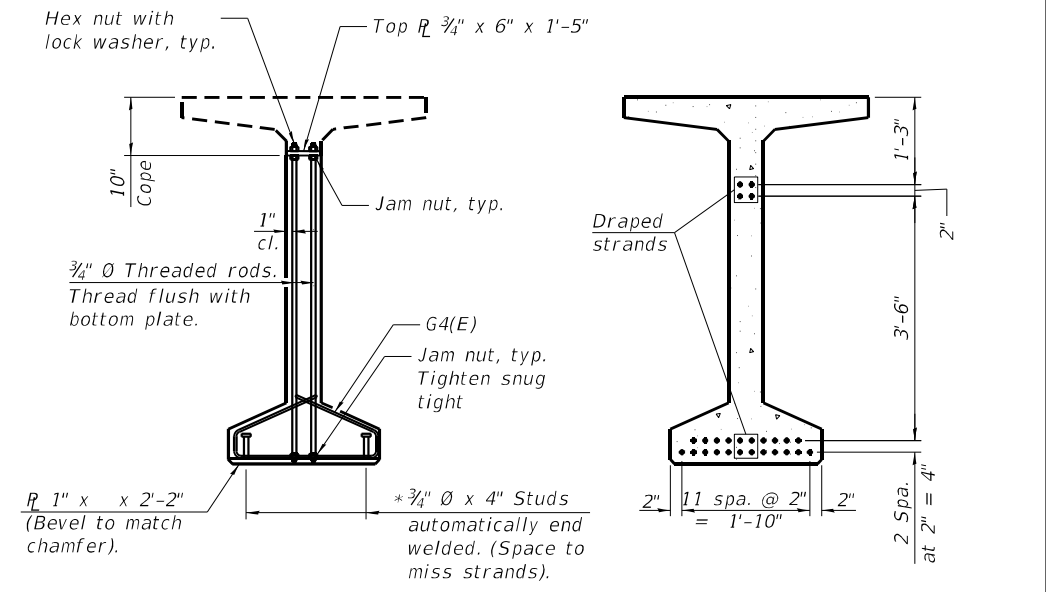


NOTE:
See sheet S-91 for additional details and Bill of Material.

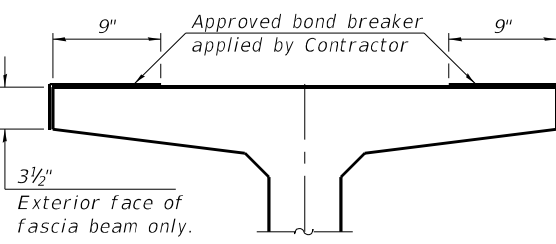
SECTION A-A
SECTION B-B



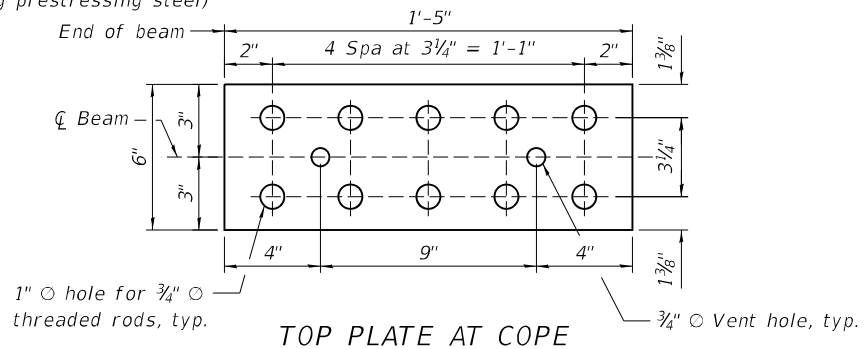
ELEVATION OF BEAM - SPAN 16
(Showing prestressing steel)



SECTION C-C
SECTION D-D
(22-1/2" diameter 270 ksi strands)



SECTION THRU TOP FLANGE
(Showing limits of bond breaker)



TOP PLATE AT COPE

BAR LIST
BEAM 10A, SPAN 16
(For information only)

| Bar | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| G1(E) | 158 | #4 | 12'-1" | ∩ |
| G2(E) | 45 | #4 | 10'-2" | ∩ |
| G3(E) | 18 | #6 | 35'-4" | — |
| G4(E) | 48 | #3 | 4'-11" | ⊔ |
| G5(E) | 130 | #5 | 3'-4" | — |
| G7(E) | 1 | #4 | 8'-7" | ∩ |

BAR LIST
BEAM 10B, SPAN 16
(For information only)

| Bar | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| G1(E) | 158 | #4 | 12'-1" | ∩ |
| G2(E) | 45 | #4 | 10'-2" | ∩ |
| G3(E) | 18 | #6 | 35'-4" | — |
| G4(E) | 48 | #3 | 4'-11" | ⊔ |
| G5(E) | 130 | #5 | 3'-4" | — |
| G7(E) | 1 | #4 | 8'-7" | ∩ |

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PBT-4-63 2-17-2017



| | | |
|----------------------------|-------------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| PLOT SCALE = 0.1667' / in. | DRAWN - SBA | REVISED - |
| DATE = 10/14/2022 | CHECKED - BWS | REVISED - |
| | DATE - 10/14/2022 | REVISED - |

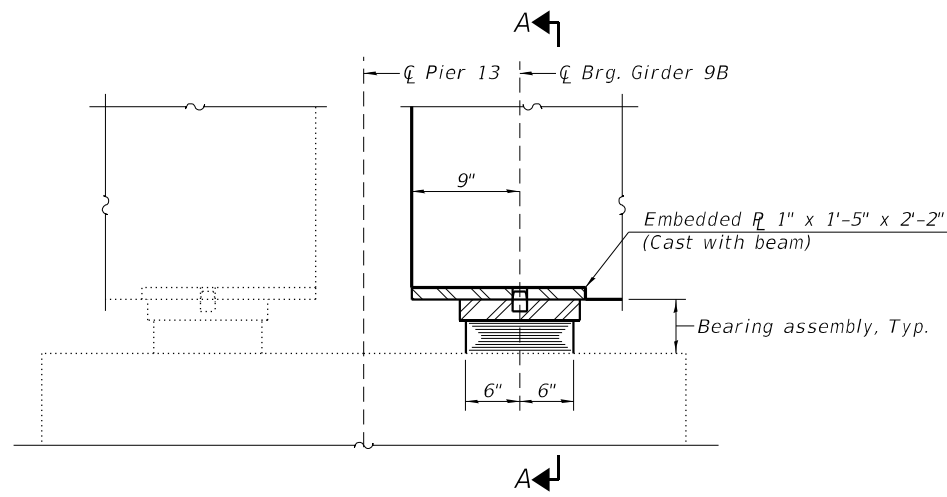
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PPC I-BEAM DETAIL III
STRUCTURE NO. 090-0122

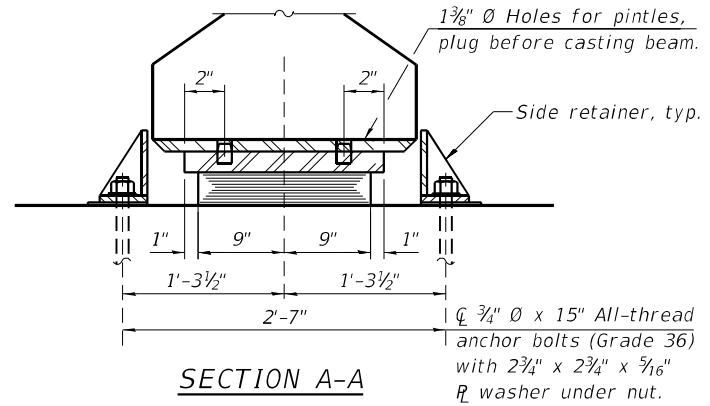
SHEET 5-90 OF S-122 SHEETS

| | | | | |
|----------------------|---------------------------------|----------|---------------------------|-----------------|
| F.A.P. RTE. = 404 | SECTION = 50 (BDR, BJR, BRR, L) | COUNTY = | TOTAL SHEETS = 286 | SHEET NO. = 221 |
| CONTRACT NO. = 68F38 | | | ILLINOIS FED. AID PROJECT | |

PEORIA / TAZEVELL



ELEVATION AT PIER

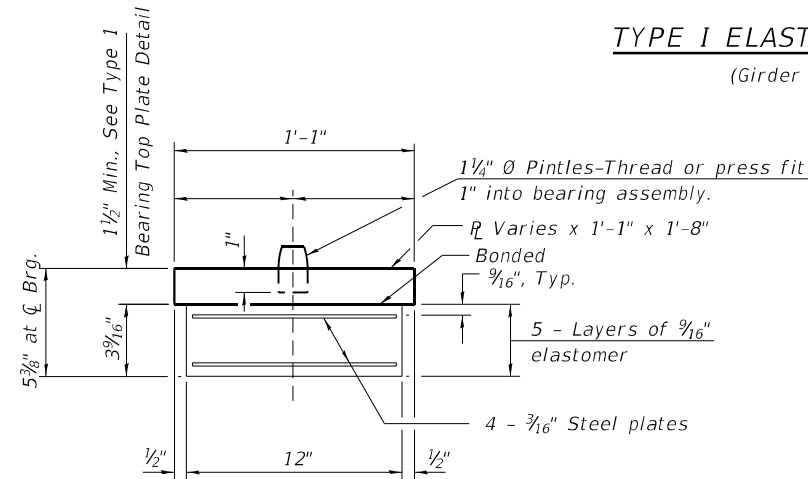


SECTION A-A

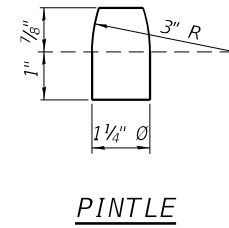
NOTES:

1. Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
2. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
3. All exposed bearing plates and side retainers shall be hot dip galvanized according to AASHTO M111.
4. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
5. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
6. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
7. Existing anchor rods for existing beam to be removed shall be ground flush with concrete.

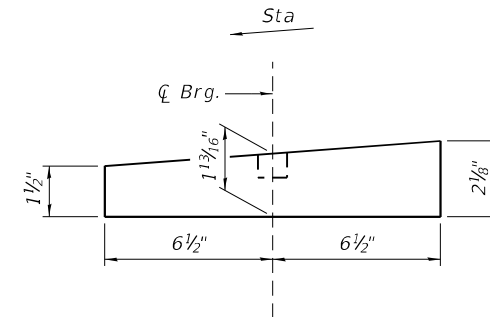
TYPE I ELASTOMERIC EXP. BRG.
(Girder 9B at Pier 13)



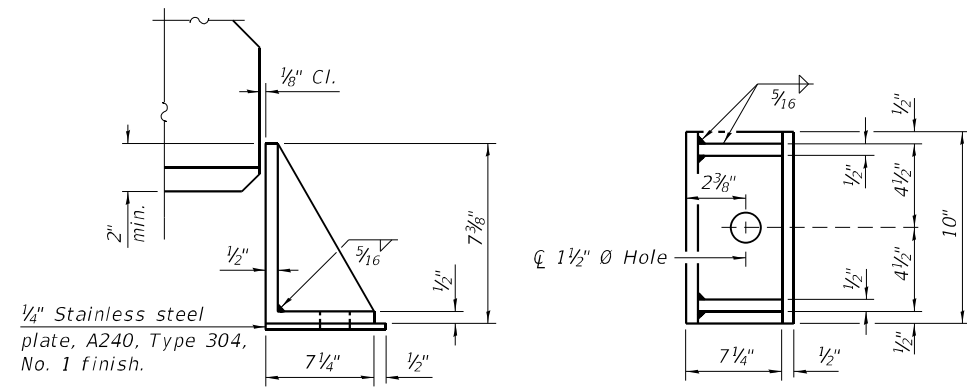
BEARING ASSEMBLY



PINTLE

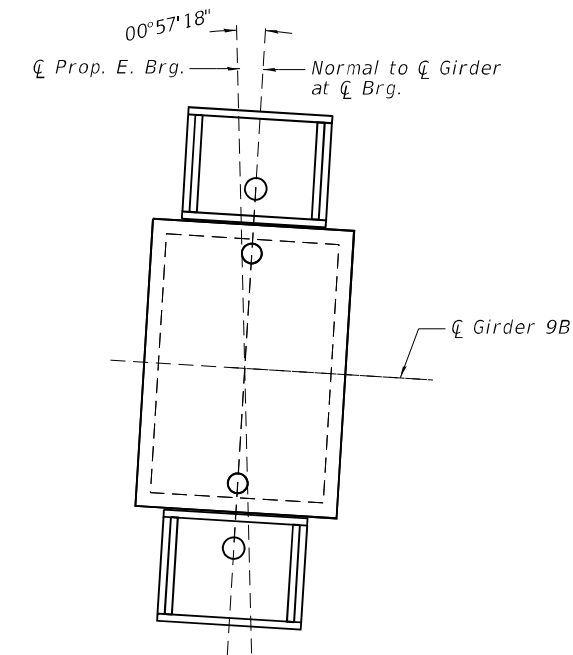


TYPE 1 BEARING TOP PLATE DETAIL



SIDE RETAINER

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



BEARING ORIENTATION

BILL OF MATERIAL

| Item | Unit | Total |
|--------------------------------------|------|-------|
| Elastomeric Bearing Assembly, Type I | Each | 1 |
| Anchor Bolts, 3/4" | Each | 2 |

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PI-2E-1

6-15-2019



| | | |
|----------------------------|-----------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| | DRAWN - SBA | REVISED - |
| PLOT SCALE = 0.1667' / in. | CHECKED - BWS | REVISED - |
| PLOT DATE = 10/12/22 | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

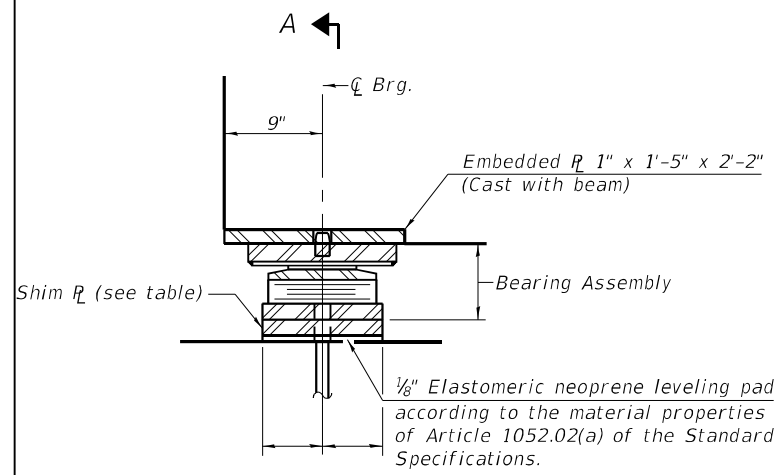
**BEARING DETAILS I
STRUCTURE NO. 090-0122**

SHEET 5-92 OF 5-122 SHEETS

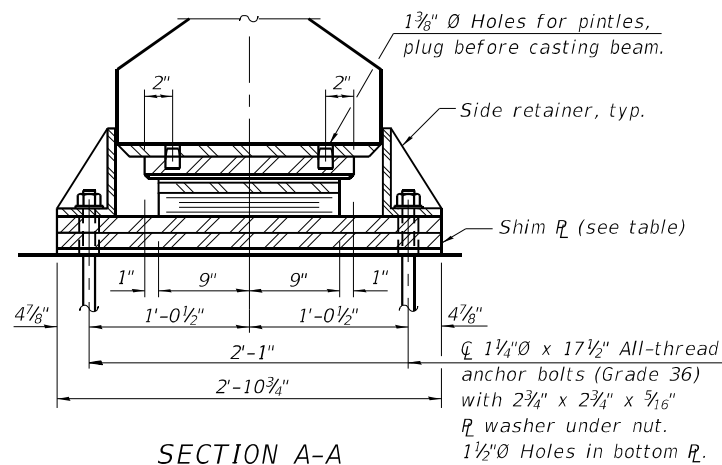
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 223 |
| CONTRACT NO. | | | 68F38 | |

ILLINOIS FED. AID PROJECT

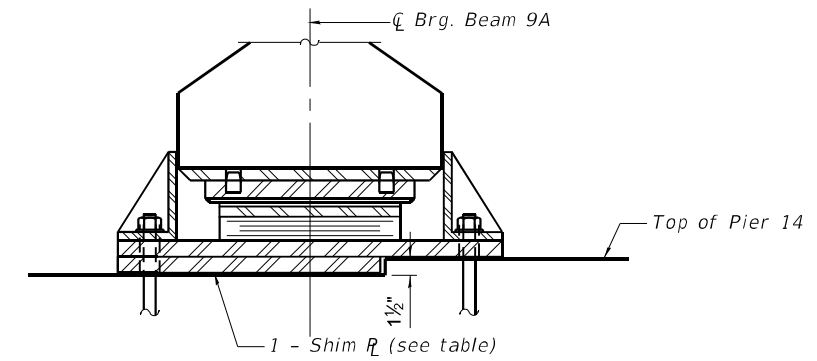
PEORIA / TAZEWELL



ELEVATION AT PIER.



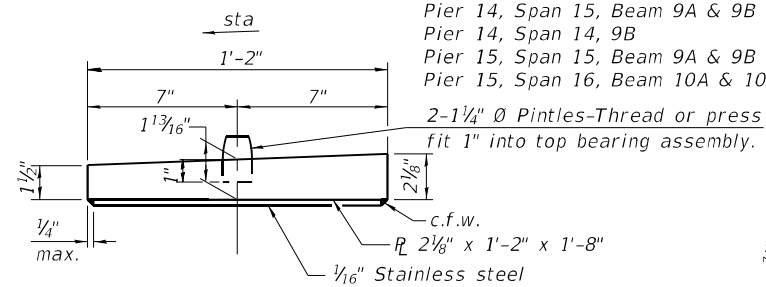
SECTION A-A



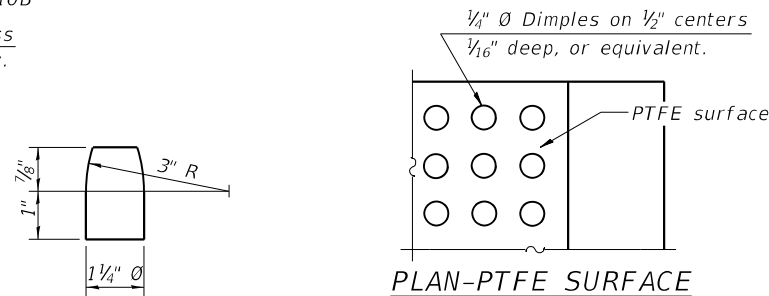
SECTION A-A
Pier 14, Beam 9A

TYPE II ELASTOMERIC EXP. BRG.

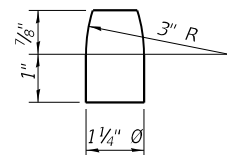
Pier 14, Span 15, Beam 9A & 9B
Pier 14, Span 14, 9B
Pier 15, Span 15, Beam 9A & 9B
Pier 15, Span 16, Beam 10A & 10B



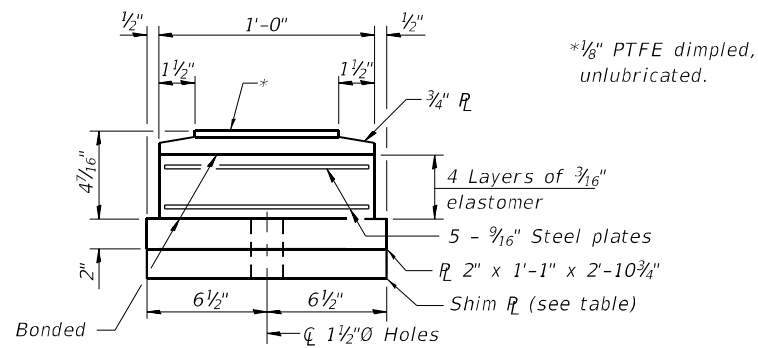
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

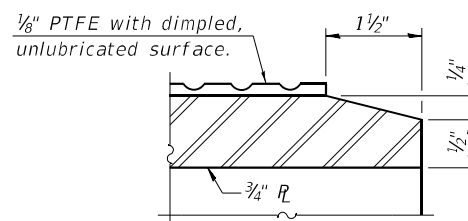


PINTLE

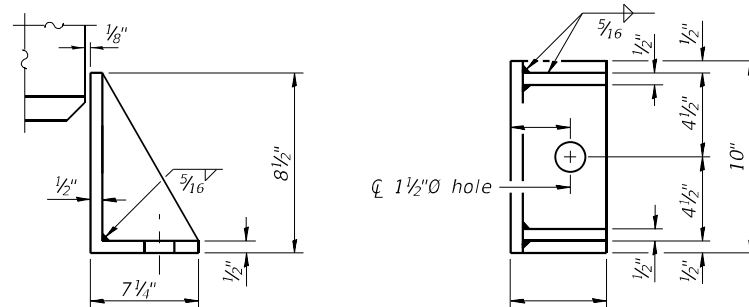


BOTTOM BEARING ASSEMBLY

* $\frac{1}{8}$ " PTFE dimpled,
unlubricated.

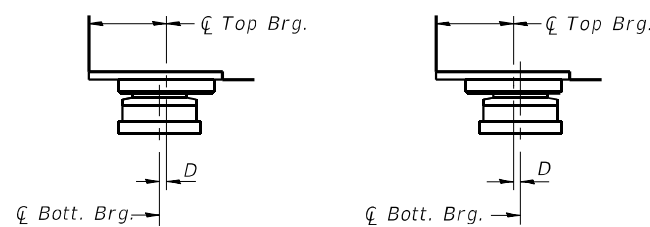


SECTION THRU PTFE



SIDE RETAINER

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



BELOW 50°F.

$D = \frac{1}{8}$ " per each 100' of expansion for every 15° temp.
change from the normal temp. of 50°F.

ABOVE 50°F.

EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the
amount of expected offset "D" for the current temperature in the field.

SHIM PLATE TABLE

| Location | Beam | Length | Width | Thickness |
|-----------------|------|--------|-----------------------|-------------------|
| Pier 14 Span 14 | 9B | 1'-1" | 2'-10 $\frac{3}{4}$ " | 2" |
| Pier 14 Span 15 | 9A | 1'-1" | 2'-3 $\frac{3}{8}$ " | 1 $\frac{1}{2}$ " |
| | 9B | - | - | - |
| Pier 15 Span 15 | 9A | 1'-1" | 2'-10 $\frac{3}{4}$ " | 2 $\frac{1}{2}$ " |
| | 9B | 1'-1" | 2'-10 $\frac{3}{4}$ " | 2 $\frac{1}{2}$ " |
| Pier 15 Span 16 | 10A | 1'-1" | 2'-10 $\frac{3}{4}$ " | 1 $\frac{1}{2}$ " |
| | 10B | 1'-1" | 2'-10 $\frac{3}{4}$ " | 1 $\frac{1}{2}$ " |

Notes:
Side retainers and leveling pads shall be included in the cost of Elastomeric Bearing Assembly, Type II.
The $\frac{1}{8}$ " PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
Bonding of $\frac{1}{8}$ " PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
See sheet of for additional details of embedded plate.
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
All exposed bearing plates and side retainers shall be hot dipped galvanized according to AASHTO M111.
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50

BILL OF MATERIAL

| Item | Unit | Total |
|---------------------------------------|------|-------|
| Elastomeric Bearing Assembly, Type II | Each | 7 |
| Anchor Bolts, 1 $\frac{1}{4}$ " | Each | 14 |

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PI-2E-2

6-15-2019



| | | |
|----------------------------|-----------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| PLOT SCALE = 0.1667' / in. | DRAWN - SBA | REVISED - |
| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

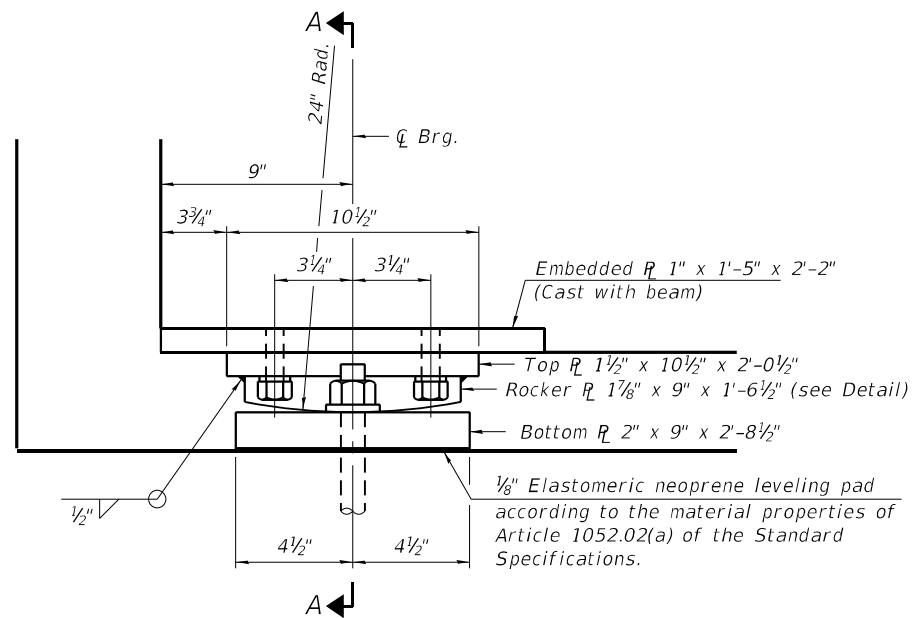
BEARING DETAILS II
STRUCTURE NO. 090-0122

SHEET 5-93 OF 5-122 SHEETS

| | | | | |
|-----------------|-------------------------------|----------|--------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY - | TOTAL SHEETS 286 | SHEET NO. 224 |
| | | | CONTRACT NO. 68F38 | |

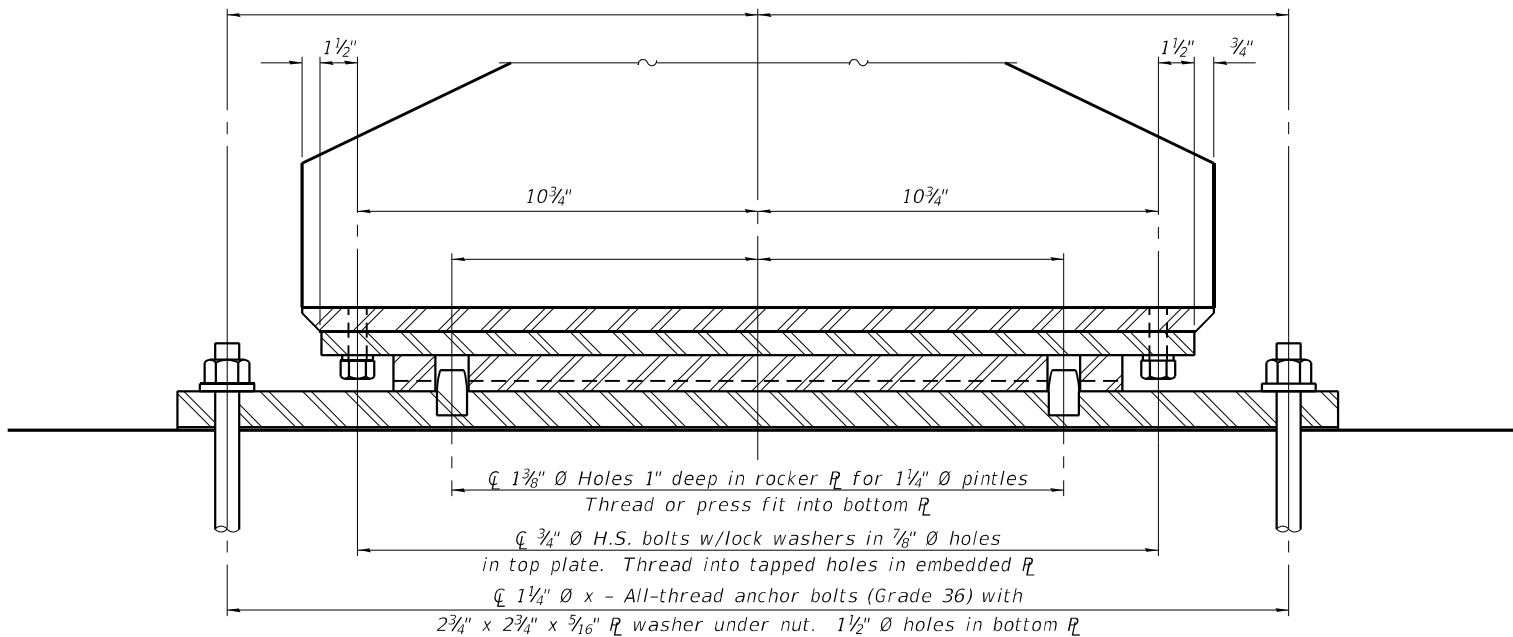
ILLINOIS FED. AID PROJECT

PEORIA / TAZEWELL

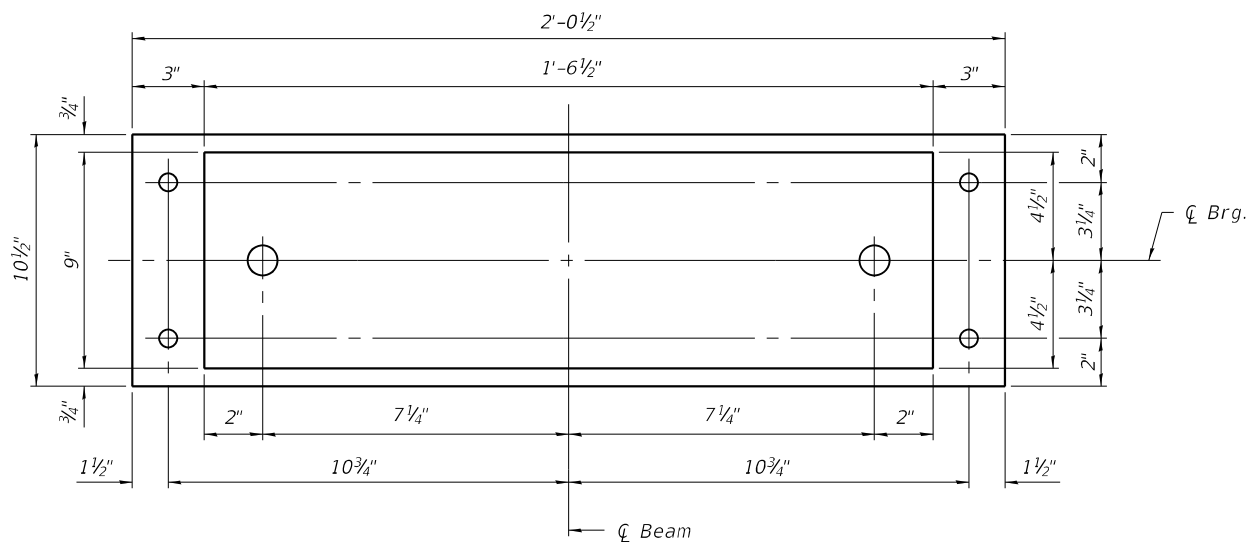


ELEVATION AT EAST ABUTMENT

(Pier 16 similar)

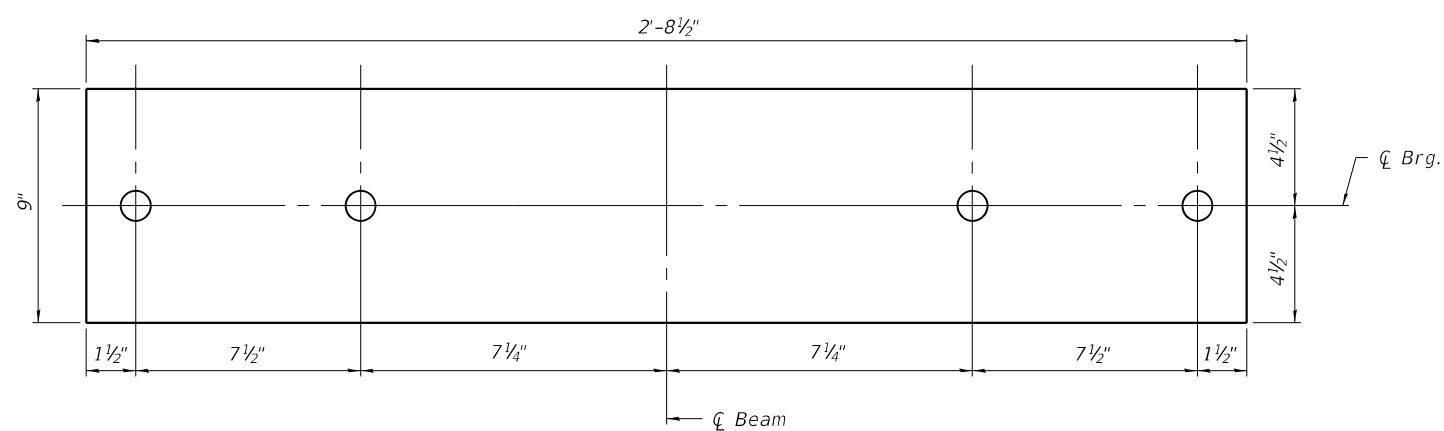


SECTION A-A

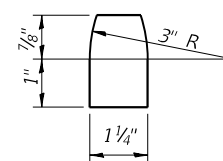
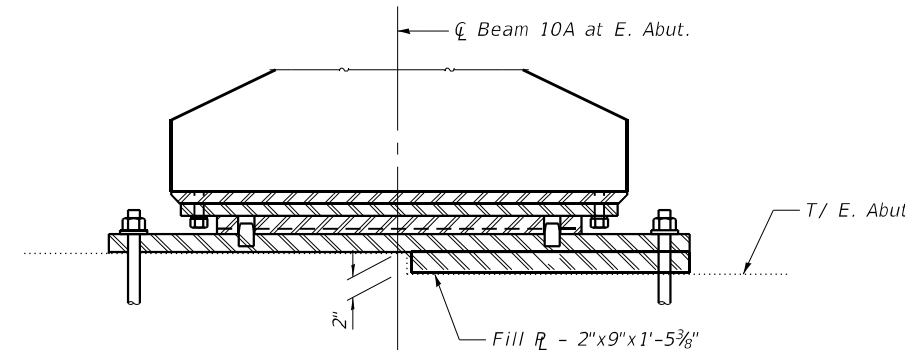


PLAN OF TOP PLATE & ROCKER PLATE

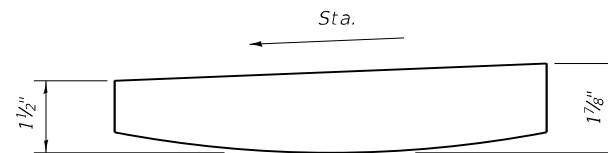
(Looking from below at top plate and rocker plate only)



PLAN OF BOTTOM PLATE



PINTLE



ROCKER PLATE DETAIL

Notes:
 Anchor bolts shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
 See sheet S-91 for additional details of embedded plate.
 All plates, hardware, and leveling pads required for the bearing, except anchor bolts, shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63".
 All plate material for bearings shall be hot dip galvanized according to AASHTO M111.
 All bolts and washers shall be galvanized according to AASHTO M232.

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------|------|-------|
| Anchor Bolts, 1 1/4" | Each | 12 |

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PI-2FB

6-15-2019



| | | |
|----------------------------|-----------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| PLOT SCALE = 0.1667' / in. | DRAWN - SBA | REVISED - |
| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS III
 STRUCTURE NO. 090-0122**

SHEET S-94 OF S-122 SHEETS

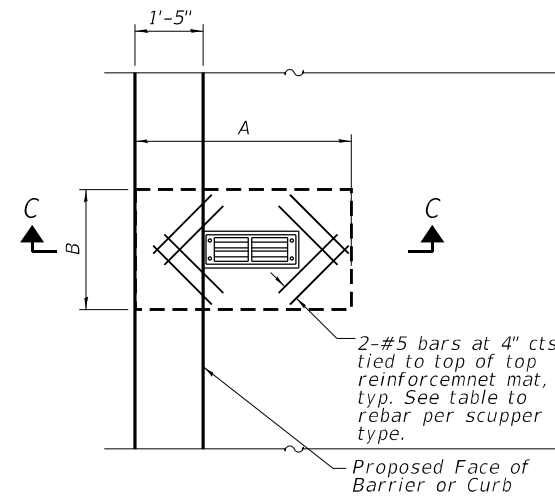
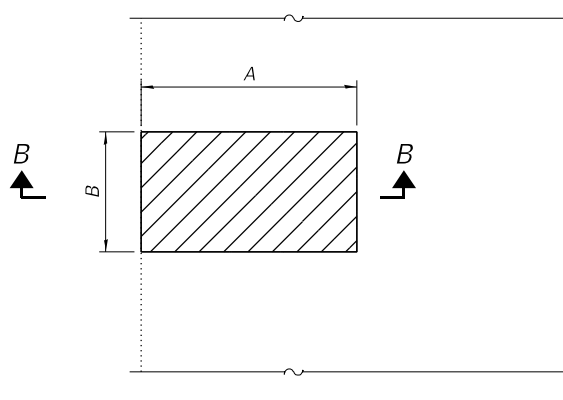
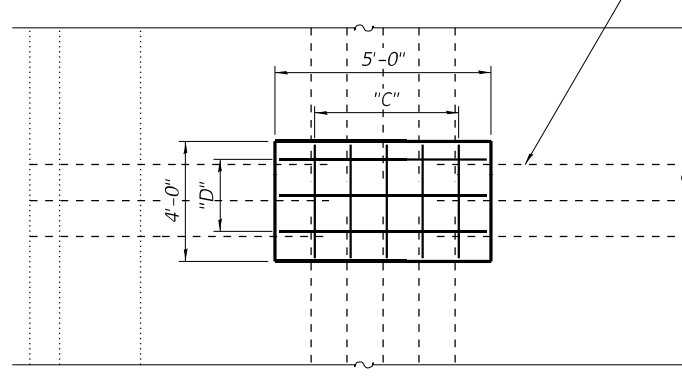
| | | | | |
|-----------------|-------------------------------|----------|--------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY * | TOTAL SHEETS 286 | SHEET NO. 225 |
| | | | CONTRACT NO. 68F38 | |

ILLINOIS FED. AID PROJECT PEORIA / TAZEVELL

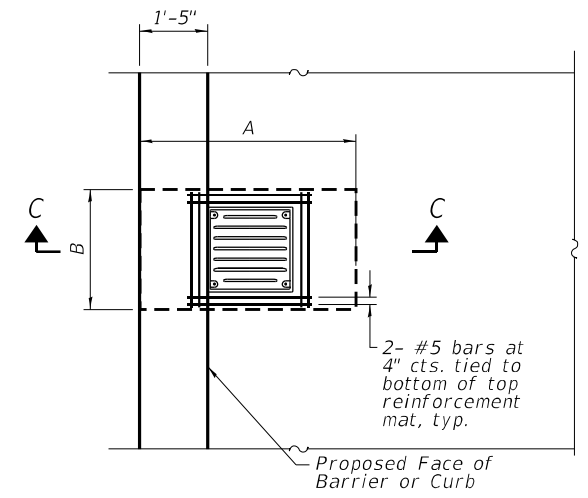
"C" = 9-#7 a24(E) at 6" cts. to lap with existing rebar (Top)
 5-#6 a25(E) at 12" cts. to lap with existing rebar (Bott)

"D" = 11-#6 a26(E) at 6" cts. to lap with existing rebar (Top)
 11-#5 a27(E) at 6" cts. to lap with existing rebar (Bott)

Existing rebar to remain and lapped with proposed rebar, typ.



DS-11 or DS-12



DS-12M10

PROPOSED REPAIR AFTER EXISTING DRAINS REMOVAL

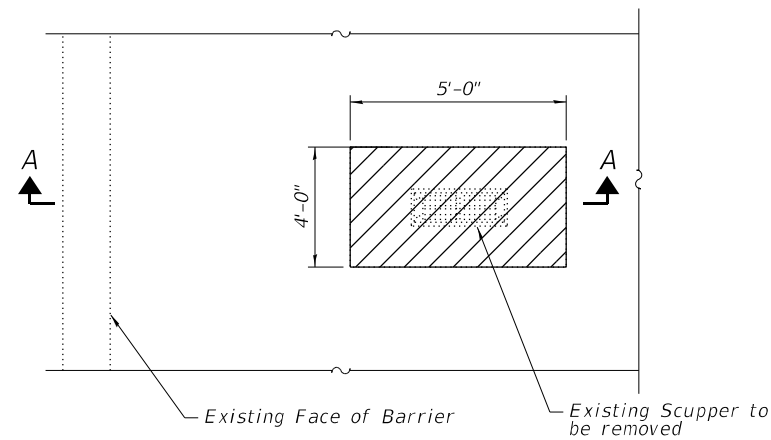
DECK REMOVAL FOR PROPOSED SCUPPER PLAN
 (Shown at Barrier or Curb, similar at Median)

PROPOSED DRAINAGE SCUPPER PLAN

Cut longitudinal reinforcement as necessary to clear drainage scuppers
 (Location shown is at barrier or curb, similar at median)

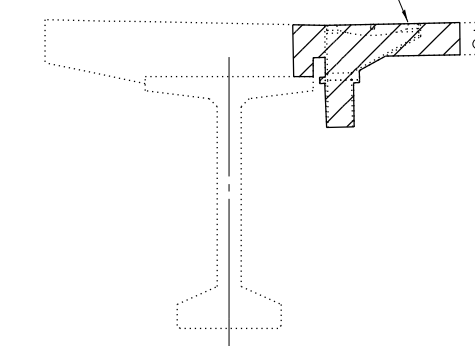
SCUPPER TABLE

| Scupper | A | B | Bar |
|----------|-------|-------|--------|
| DS-11 | 4'-0" | 2'-6" | a20(E) |
| DS-12 | 4'-6" | 2'-6" | a21(E) |
| DS-12M10 | 4'-6" | 4'-6" | a22(E) |
| Special | 5'-0" | 5'-0" | a23(E) |



EXISTING DRAINS REMOVAL PLAN

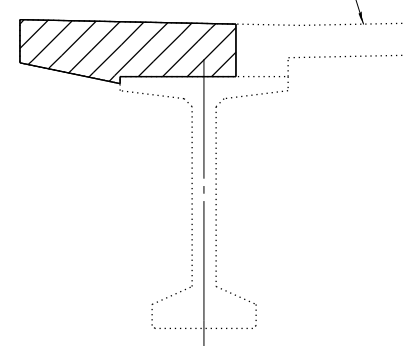
Existing scupper to be removed. Cost included in Concrete Removal.



SECTION A-A

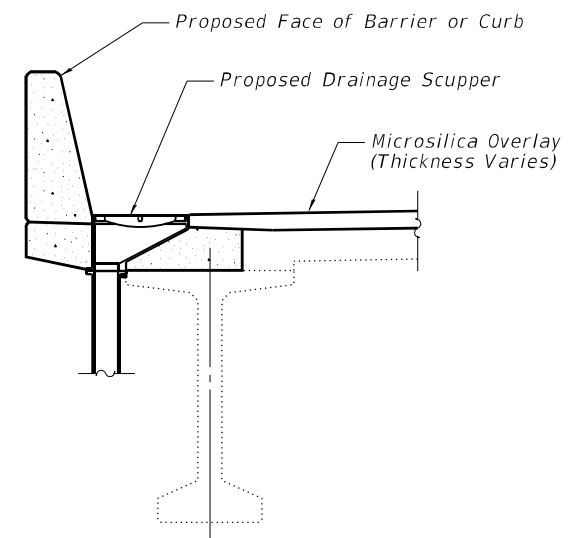
Existing drains to be removed after Existing Sidewalk Removal

Existing top of deck after scarification



SECTION B-B

Looking at north end of bridge after sidewalk and parapet removal, similar at median



SECTION C-C

Reinforcement not shown

LEGEND

Concrete Removal

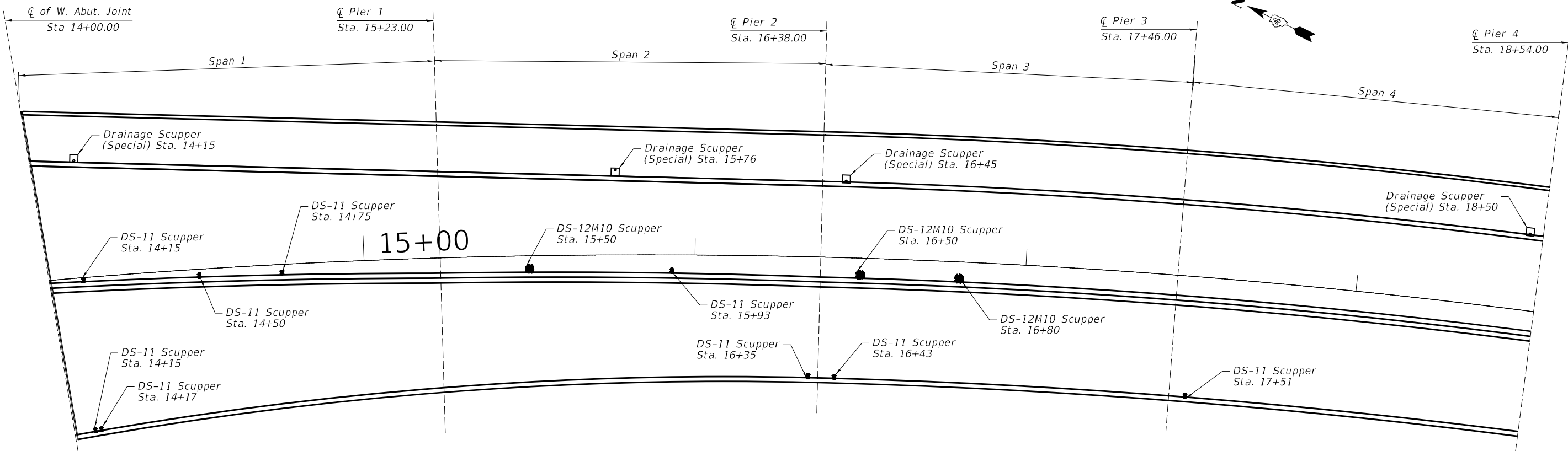
NOTES:

- CONTRACTOR to provide shield for utilities if required during the deck removal, cost included in "Concrete Removal".
- For proposed drainage scuppers, see Sheets S-96 through S-104.

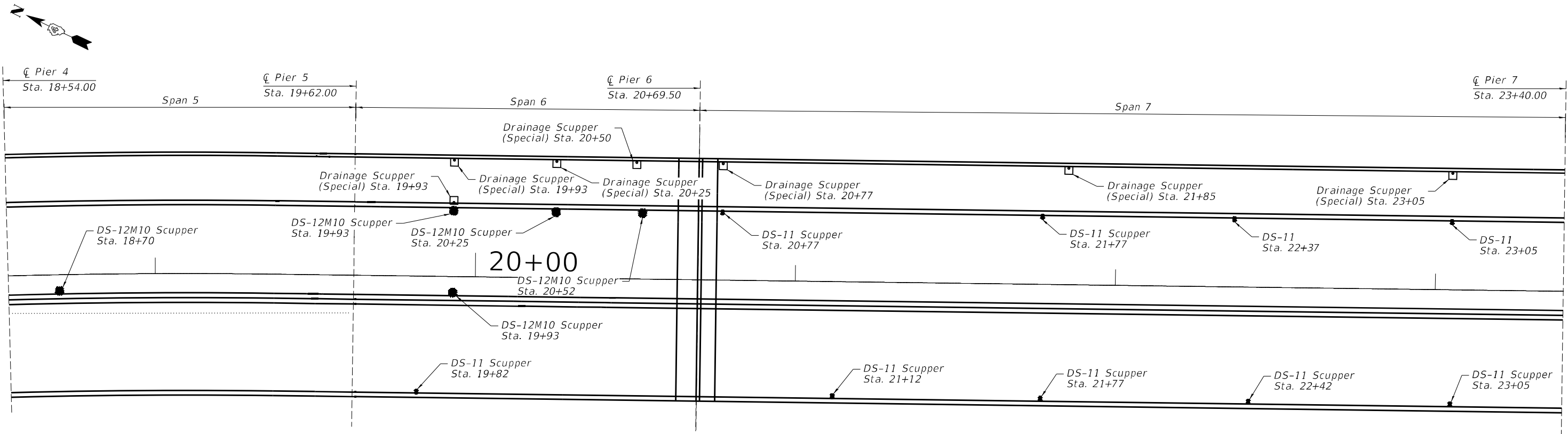
BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|--------|
| a20(E) | 280 | #5 | 1'-6" | — |
| a21(E) | 16 | #5 | 1'-0" | — |
| a22(E) | 128 | #5 | 4'-0" | — |
| a23(E) | 168 | #5 | 4'-0" | — |
| a24(E) | 387 | #7 | 4'-8" | — |
| a25(E) | 215 | #6 | 4'-8" | — |
| a26(E) | 473 | #6 | 3'-8" | — |
| a27(E) | 473 | #5 | 3'-8" | — |
| Concrete Removal | | | Cu. Yd. | 60.2 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 11,320 |
| Concrete Superstructure | | | Cu. Yd. | 60.2 |
| Protective Coat | | | Sq. Yd. | 4,109 |

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DECK DRAIN PLAN - SPANS 1 THRU 4



DECK DRAIN PLAN - SPANS 5 THRU 7

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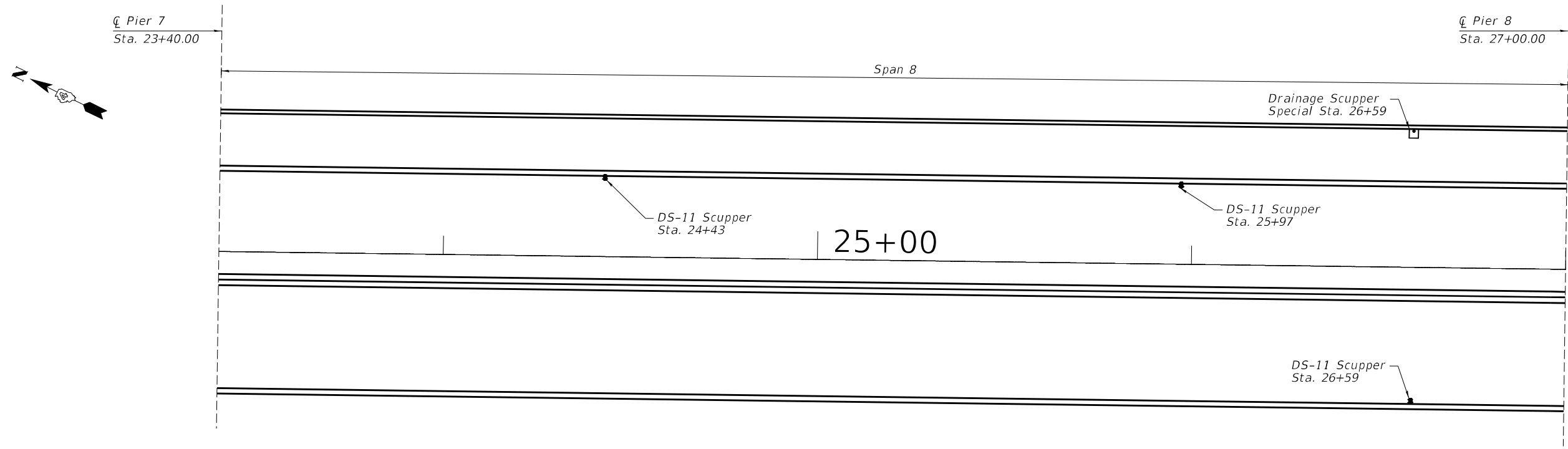


| | | |
|----------------------------|-----------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| | DRAWN - SBA | REVISED - |
| PLOT SCALE = 0.1667' / in. | CHECKED - BWS | REVISED - |
| PLOT DATE = 10/12/22 | DATE - 10/12/22 | REVISED - |

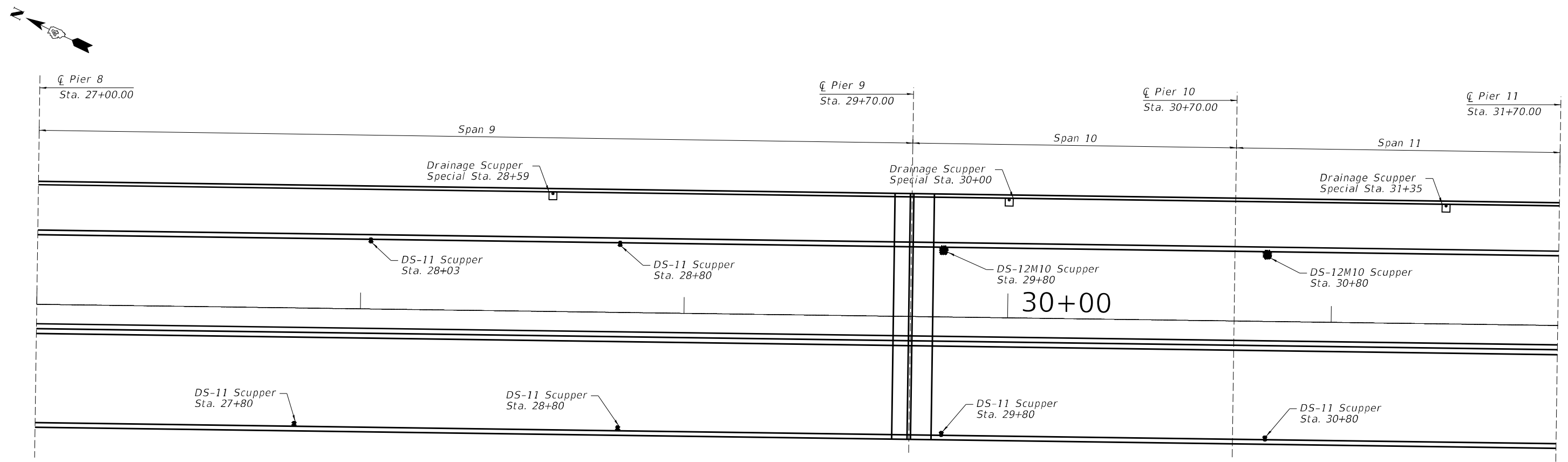
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN I
STRUCTURE NO. 090-0122
 SHEET 5-96 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 227 |
| CONTRACT NO. 68F38 | | | | |



DECK DRAIN PLAN - SPAN 8



DECK DRAIN PLAN - SPANS 9 THRU 11

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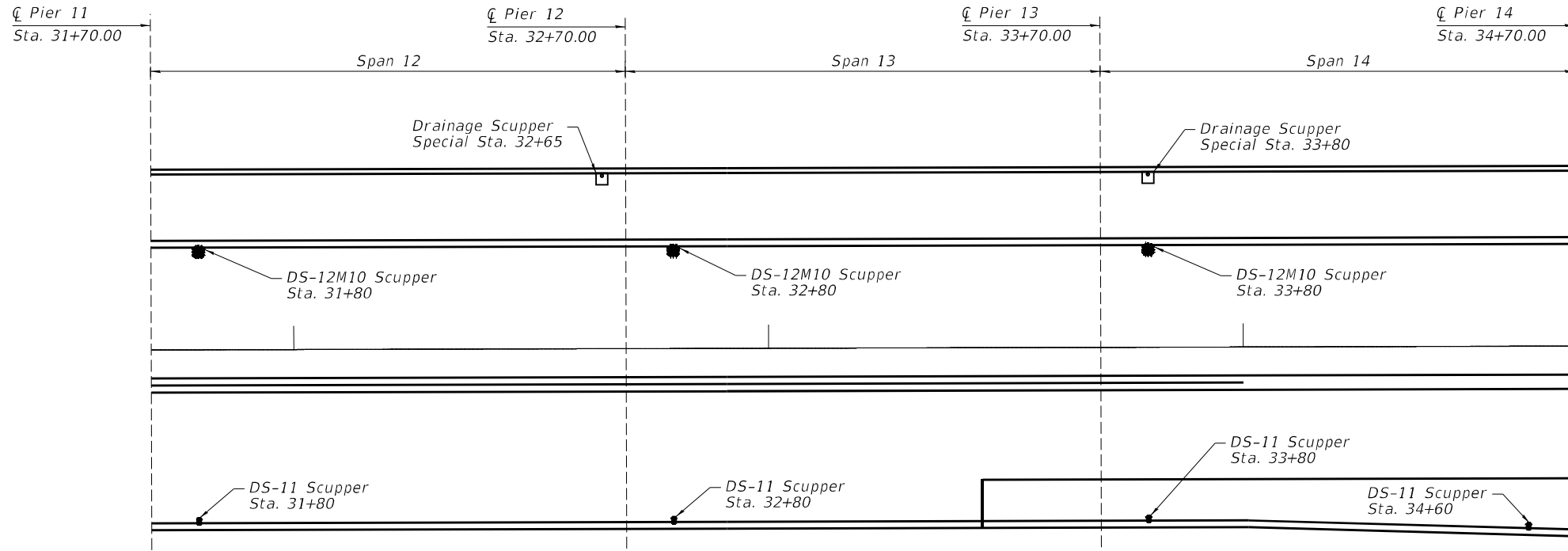
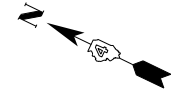
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|----------------------------|-----------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| DRAWN - SBA | CHECKED - BWS | REVISED - |
| PLOT SCALE = 0.1667' / in. | DATE - 10/12/22 | REVISED - |
| PLOT DATE = 10/12/22 | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

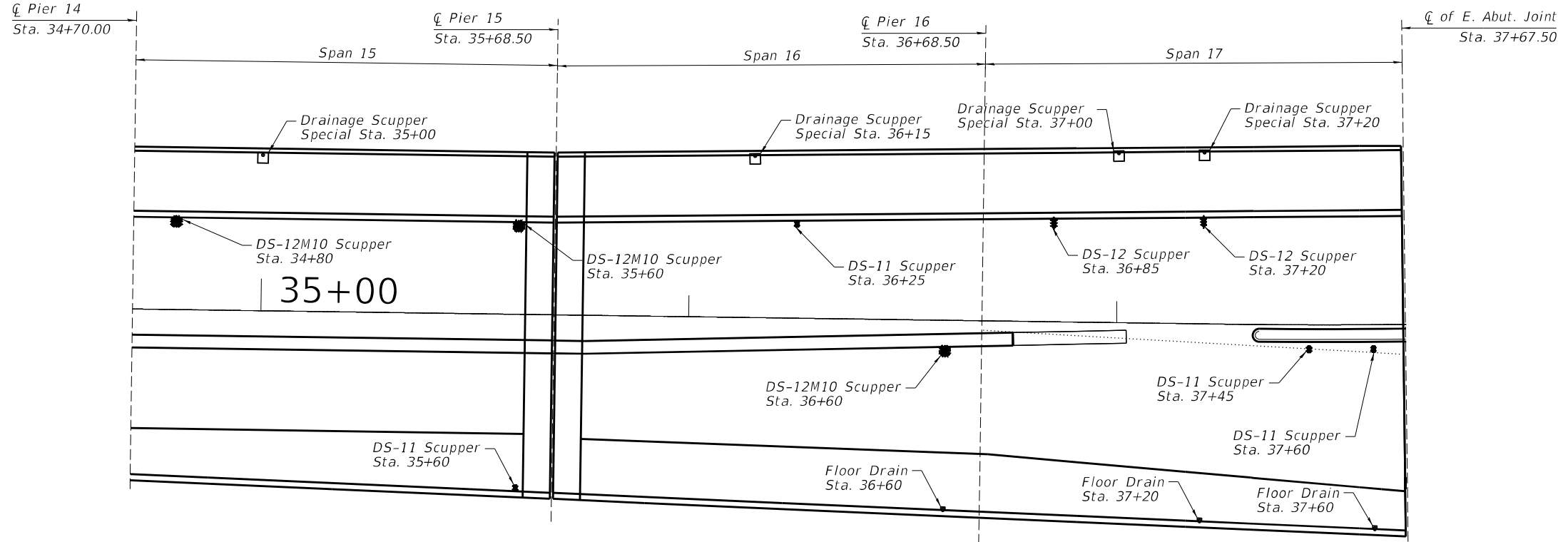
DRAINAGE PLAN II
STRUCTURE NO. 090-0122
 SHEET 5-97 OF 5-122 SHEETS

| | | | | |
|--------------------|-----------------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 228 |
| CONTRACT NO. 68F38 | | | | |

ILLINOIS FED. AID PROJECT * PEORIA / TAZEVELL



DECK DRAIN PLAN - SPANS 12 THRU 14



DECK DRAIN PLAN - SPANS 15 THRU 17

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| | | |
|----------------------------|-----------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| DRAWN - SBA | CHECKED - BWS | REVISED - |
| PLOT SCALE = 0.1667' / in. | DATE - 10/12/22 | REVISED - |
| PLOT DATE = 10/12/22 | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

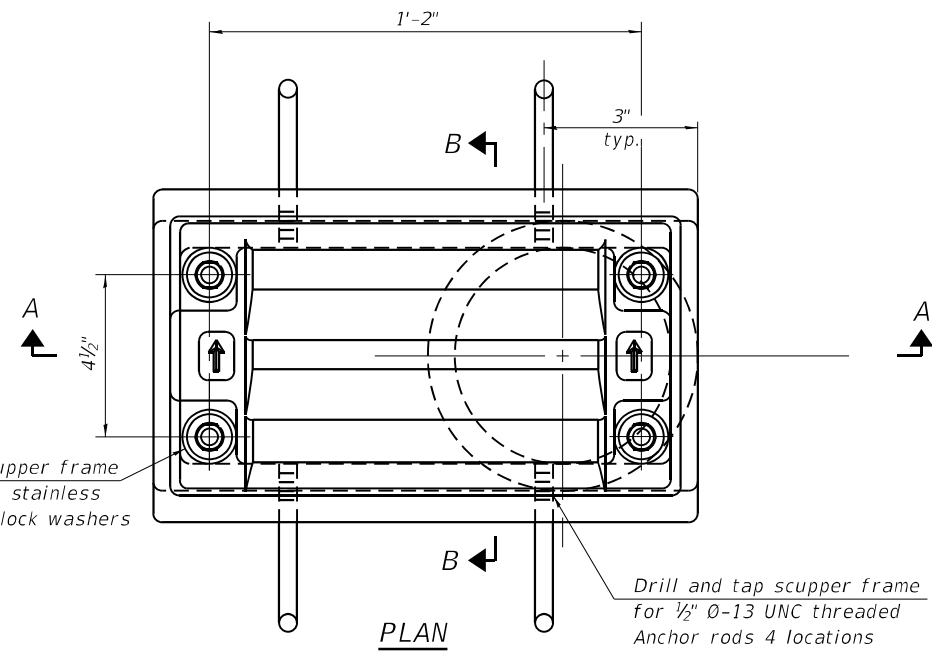
**DRAINAGE PLAN III
STRUCTURE NO. 090-0122**

SHEET 5-98 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 229 |
| CONTRACT NO. | | | 68F38 | |

ILLINOIS FED. AID PROJECT

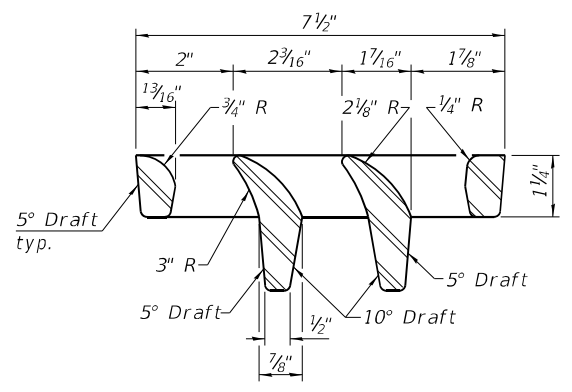
PEORIA / TAZEVELL



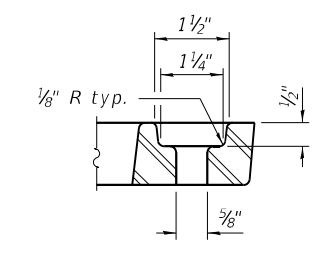
Drill and tap scupper frame for 1/2" Ø-13 UNC stainless steel bolts with lock washers 4 locations

Drill and tap scupper frame for 1/2" Ø-13 UNC threaded Anchor rods 4 locations

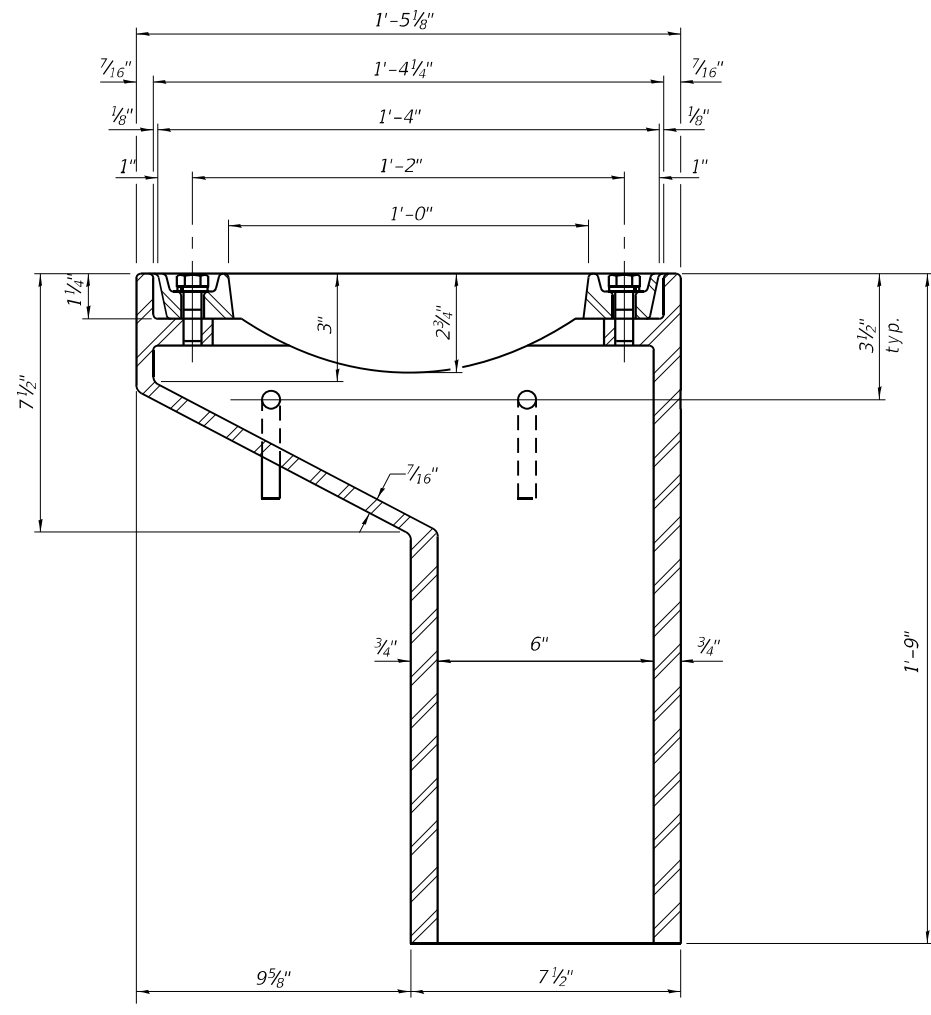
PLAN



VANE GRATE DETAIL

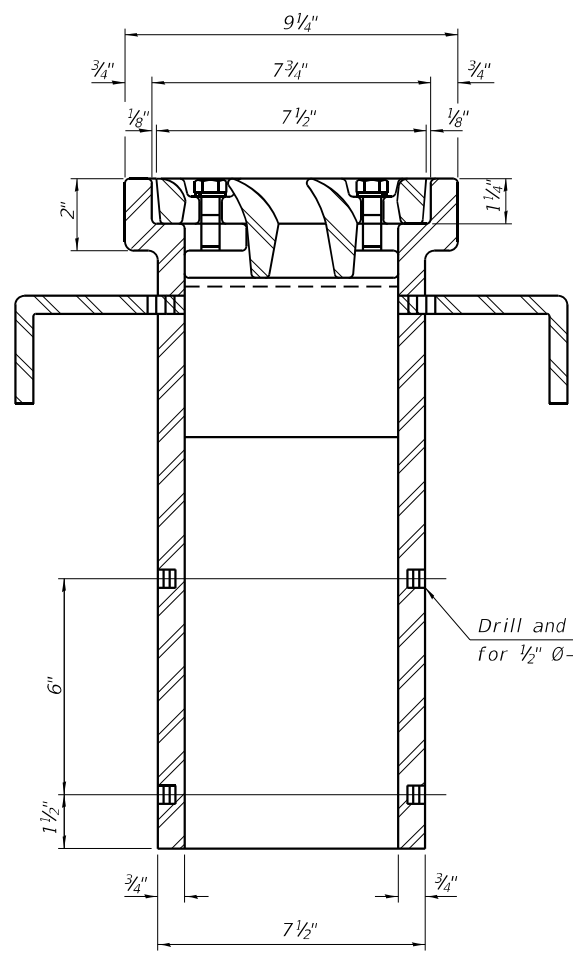


GRATE BOLT HOLE DETAIL

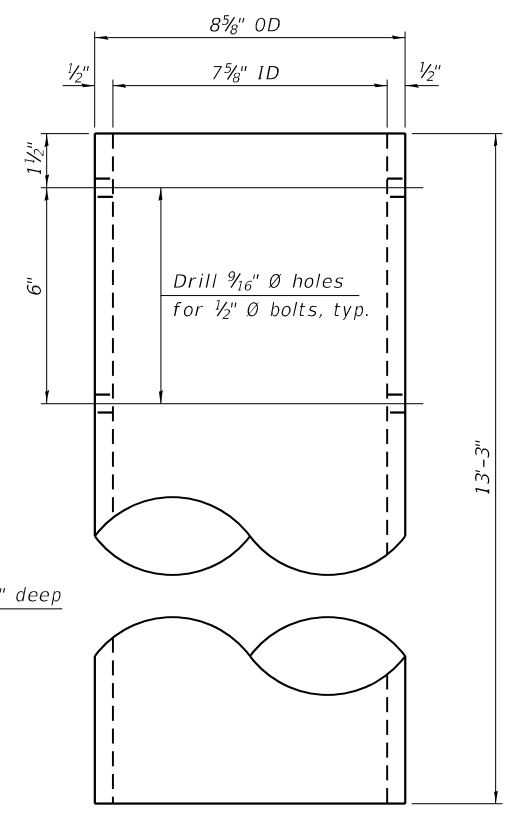


SECTION A-A

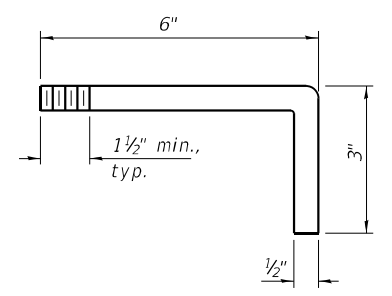
See sheet S-95 through S-97 for scupper location relative to parapet.



SECTION B-B



DOWNSPOUT



ANCHOR ROD DETAIL

BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|-------------------------|------|----------|
| Drainage Scupper, DS-11 | Each | 35 |

Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on sheet S-102.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-11.
 Downspouts to be used at Spans 7 through 9. Connect scupper to drainage system otherwise. Connection to drainage system is paid for with "Drainage System for Structures."

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DS-11

1-1-2020



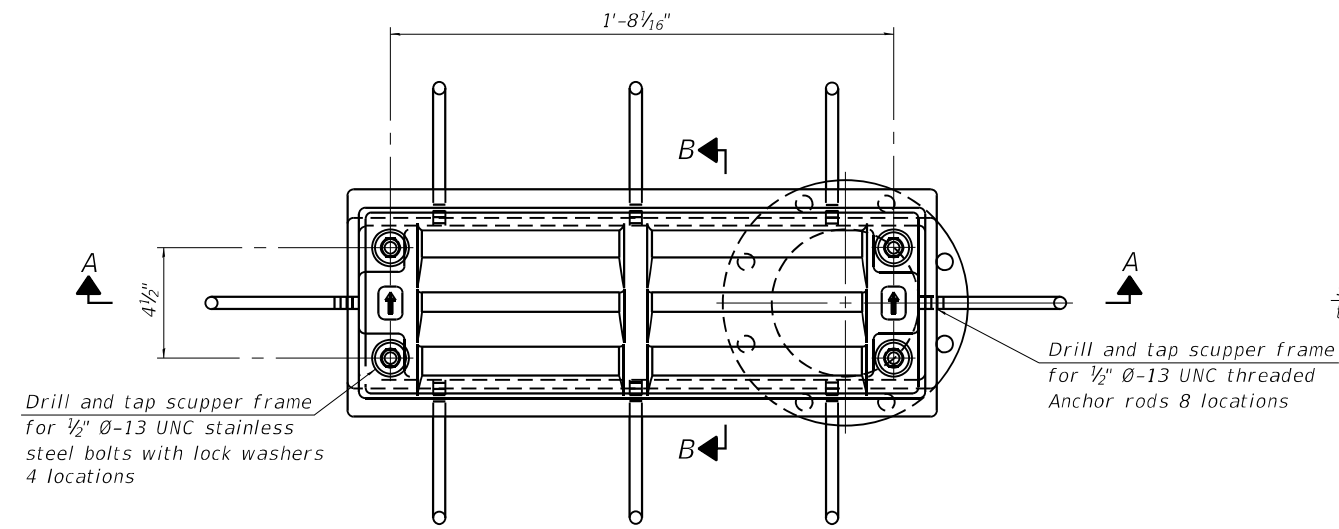
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| PLOT SCALE = 0,1667' / in. | DRAWN - SBA | REVISED - |
| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

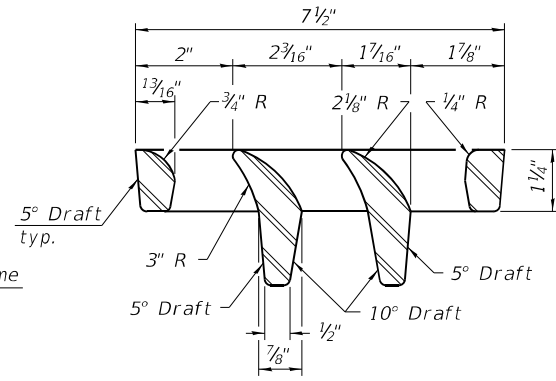
**DRAINAGE SCUPPER, DS-11
 STRUCTURE NO. 090-0122**

SHEET 5-99 OF S-122 SHEETS

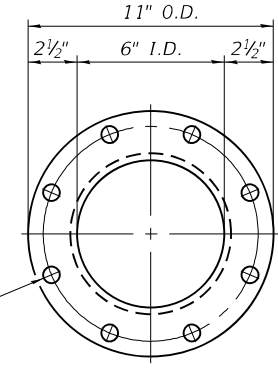
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| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY - | TOTAL SHEETS 286 | SHEET NO. 230 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68F38 | |



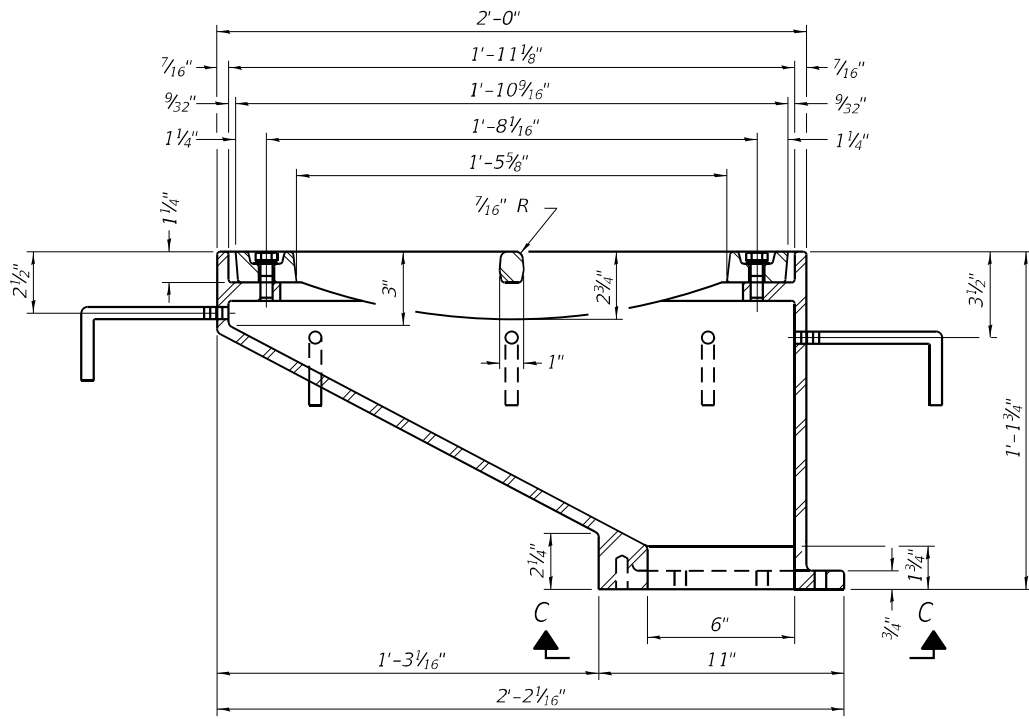
PLAN



VANE GRATE DETAIL

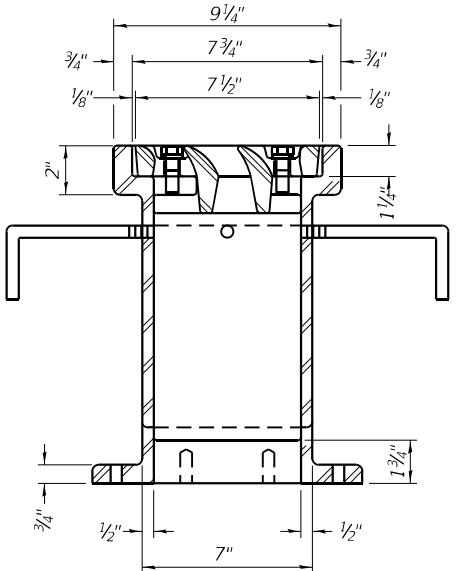


VIEW C-C

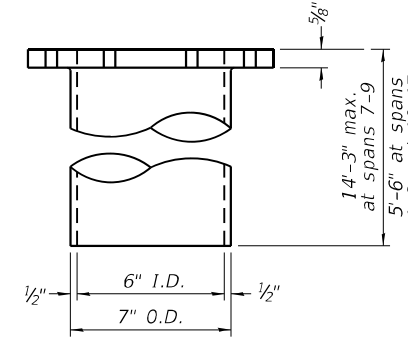


SECTION A-A

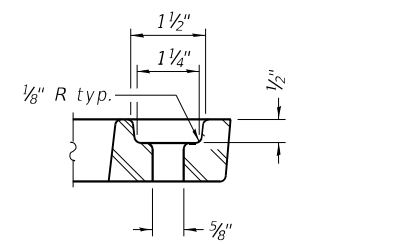
See sheet S-95 through S-97 for scupper location relative to parapet.



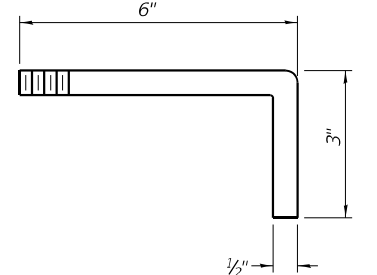
SECTION B-B



DOWNSPOUT



GRATE BOLT HOLE DETAIL



ANCHOR ROD DETAIL

Drill and tap 8 holes for 3/4" Ø-13 UNC bolts on 9 1/2" Ø bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)

BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|-------------------------|------|----------|
| Drainage Scupper, DS-12 | Each | 2 |

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DS-12

1-1-2020



| | | |
|----------------------------|-----------------|-----------|
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| PLOT SCALE = 0.1667' / in. | DRAWN - SBA | REVISED - |
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| | DATE - 10/12/22 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

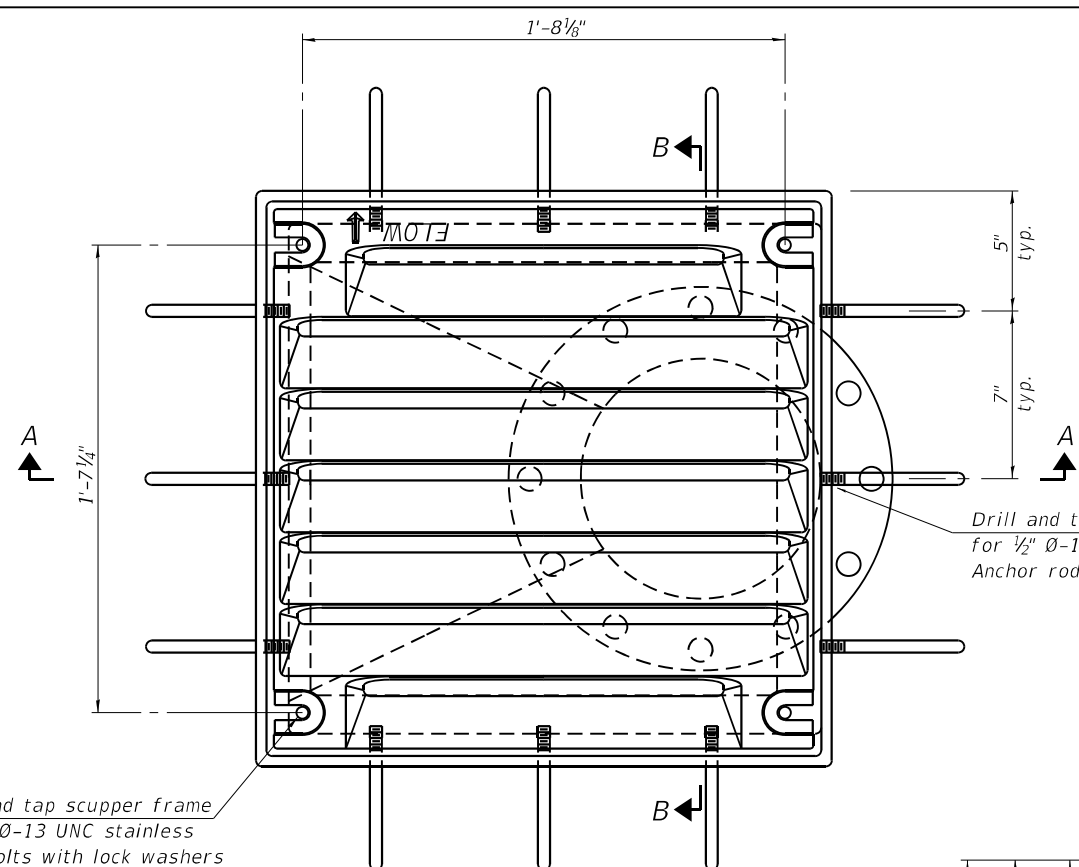
DRAINAGE SCUPPER, DS-12
STRUCTURE NO. 090-0122

SHEET S-100 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
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| CONTRACT NO. | | | 68F38 | |

ILLINOIS FED. AID PROJECT

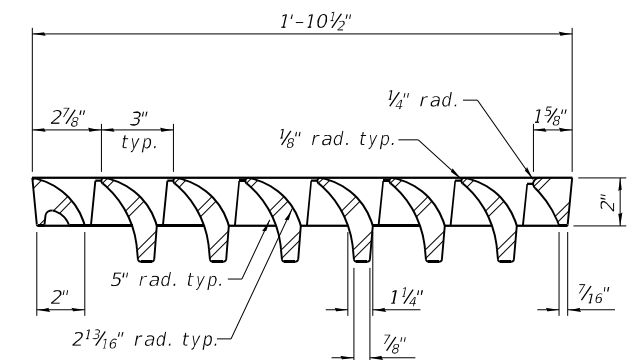
PEORIA / TAZEVELL



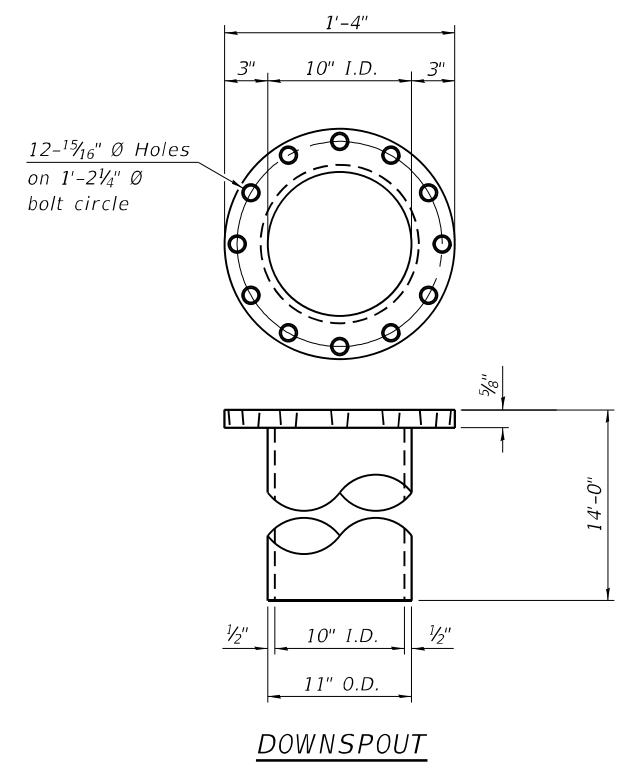
PLAN

Drill and tap scupper frame for 1/2" Ø-13 UNC stainless steel bolts with lock washers 4 locations

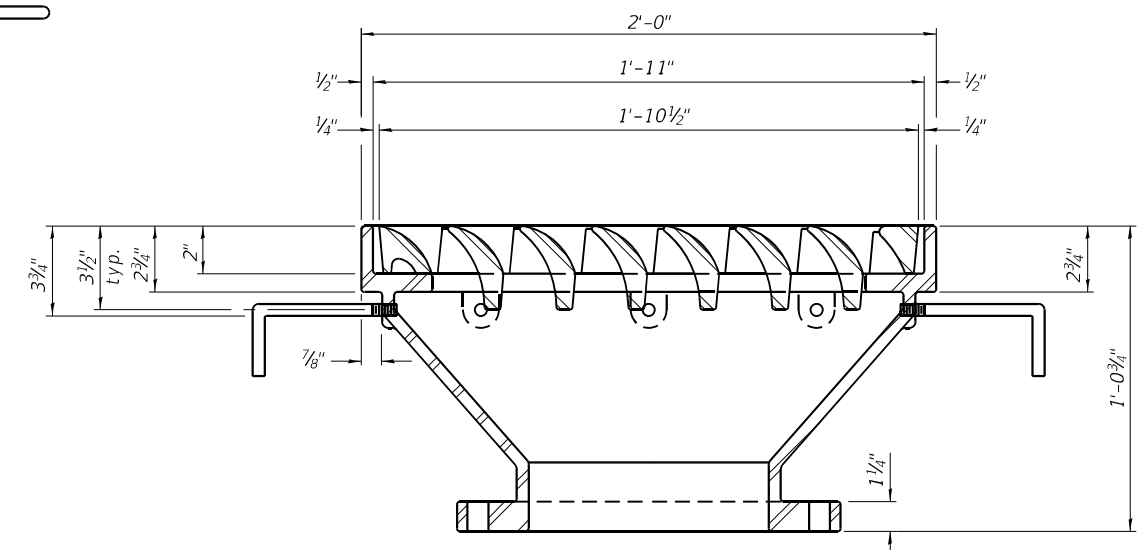
Drill and tap scupper frame for 1/2" Ø-13 UNC threaded Anchor rods 12 locations



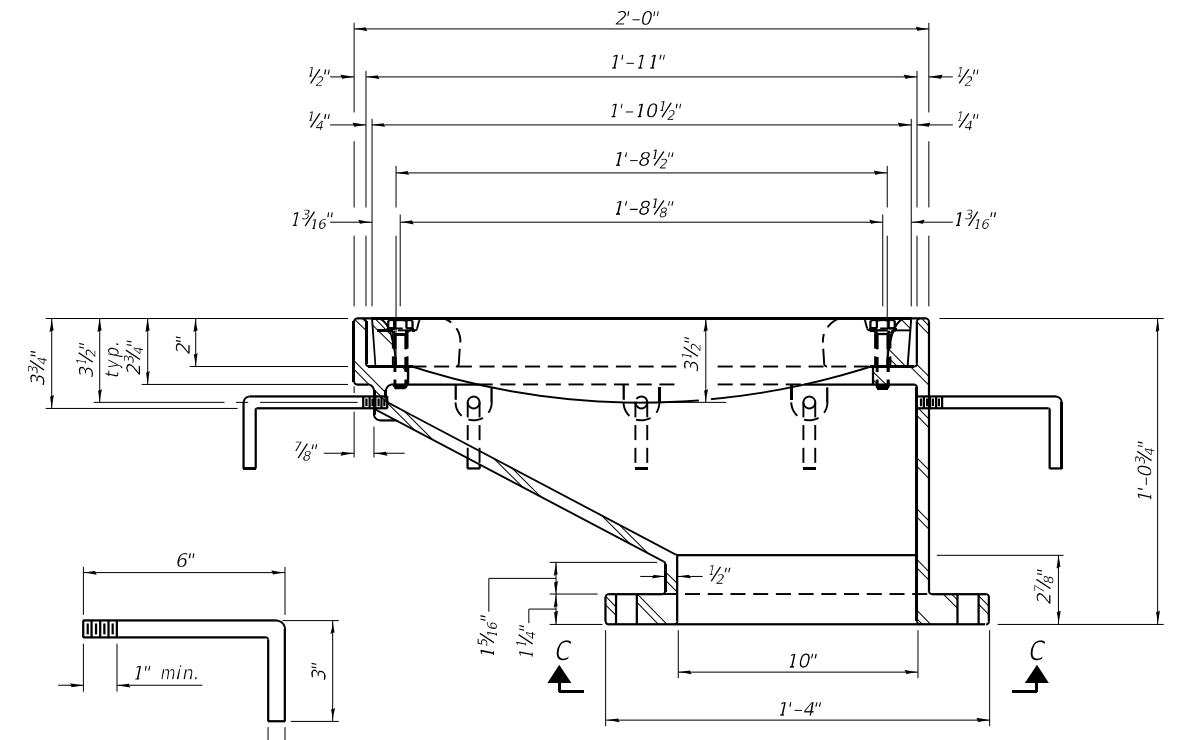
VANE GRATE DETAIL



DOWNSPOUT



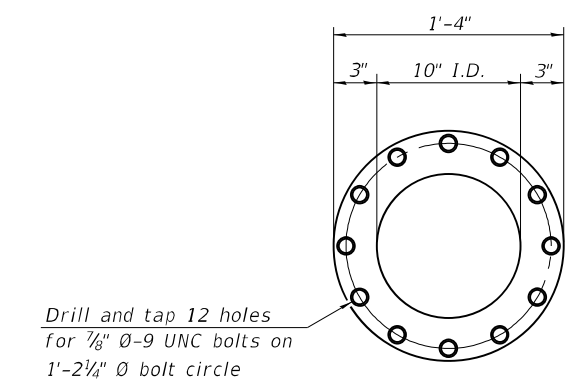
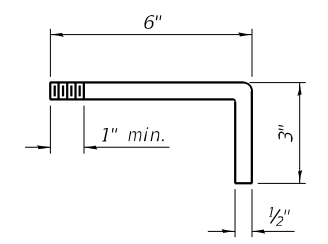
SECTION B-B



SECTION A-A

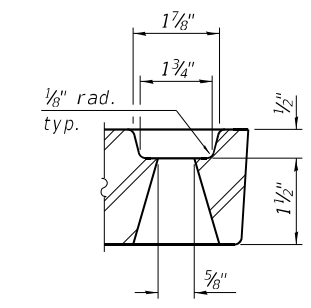
See sheet S-95 through S-97 for scupper location relative to parapet.

ANCHOR ROD DETAIL



VIEW C-C

Drill and tap 12 holes for 7/8" Ø-9 UNC bolts on 1'-2 1/4" Ø bolt circle



GRATE BOLT HOLE DETAIL

Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on sheet S-102.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-12M10.
 Downspouts to be used at Spans 7 through 9. Connect scupper to drainage system otherwise. Connection to drainage system is paid for with "Drainage System for Structures."

BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|----------------------------|------|----------|
| Drainage Scupper, DS-12M10 | Each | 16 |

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DS-12M10 1-1-2020

8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
 P 773.775.4009 | www.ciorba.com

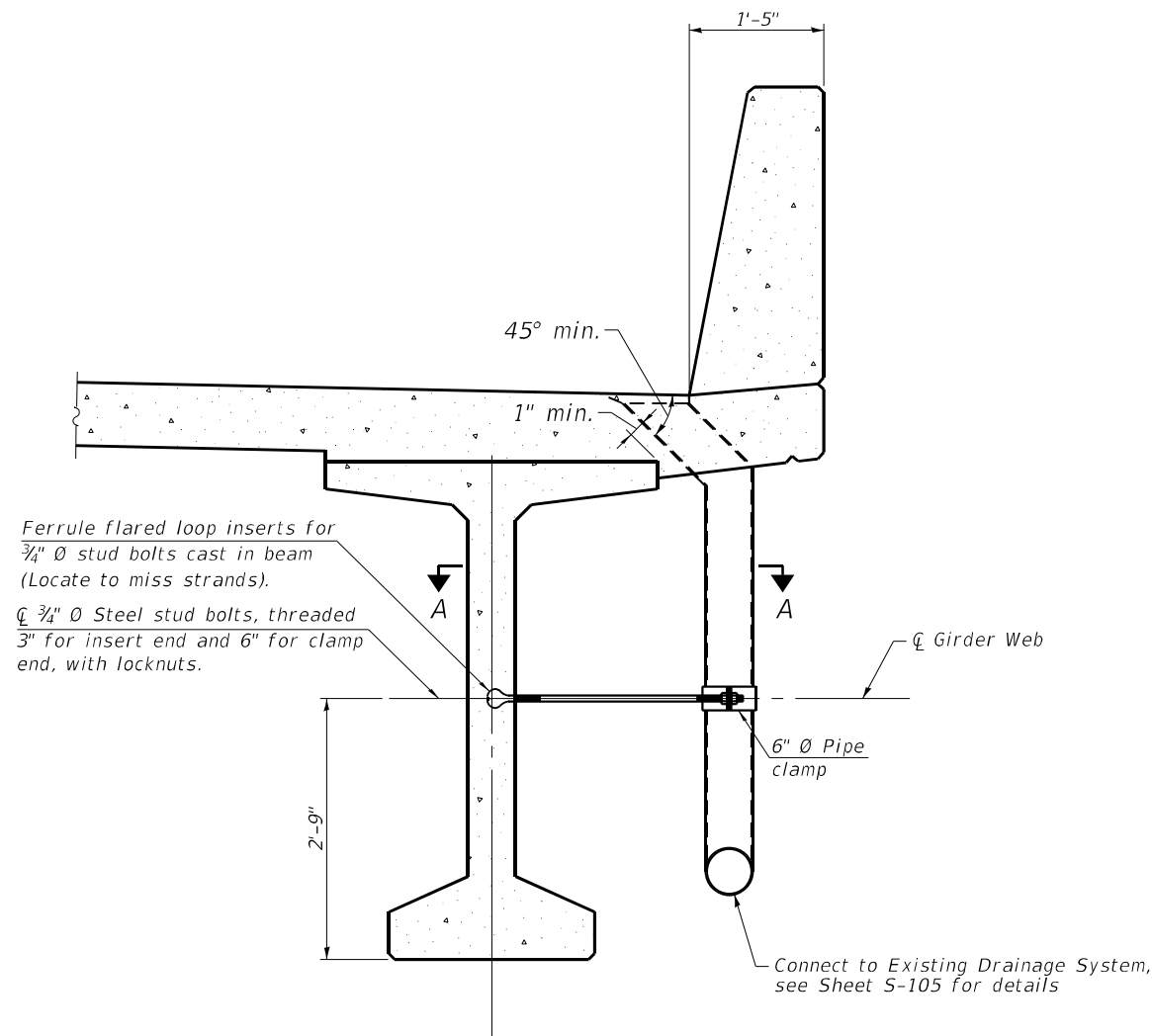
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

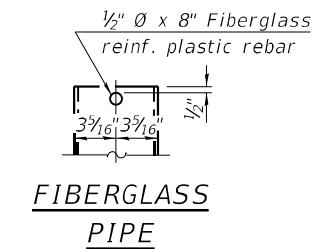
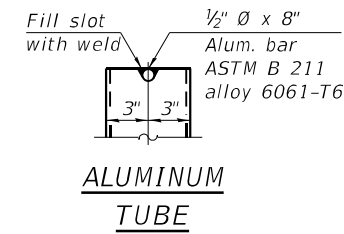
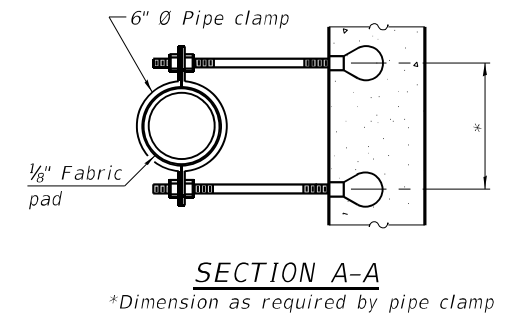
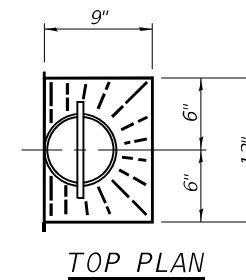
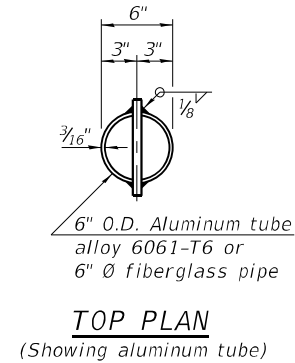
DRAINAGE SCUPPER, DS-12M10
 STRUCTURE NO. 090-0122

SHEET S-101 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 232 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |



SECTION THRU PARAPET
 (Floor Drains are used only within
 Span 17, see Sheet S-99 for location)



Notes:

- Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
- The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
- The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
- The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
- The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

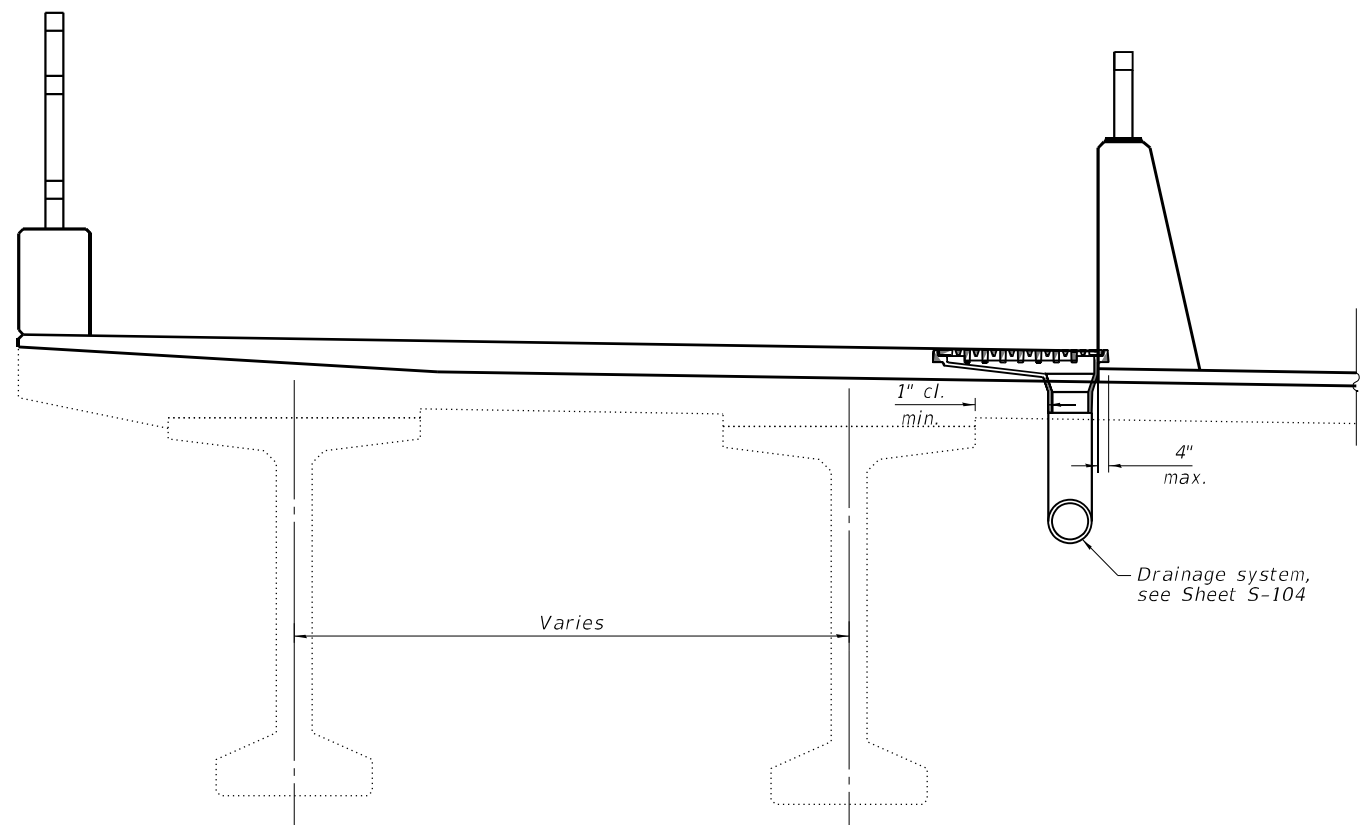
BILL OF MATERIAL

| Item | Unit | Quantity |
|--------------|------|----------|
| Floor Drains | Each | 3 |

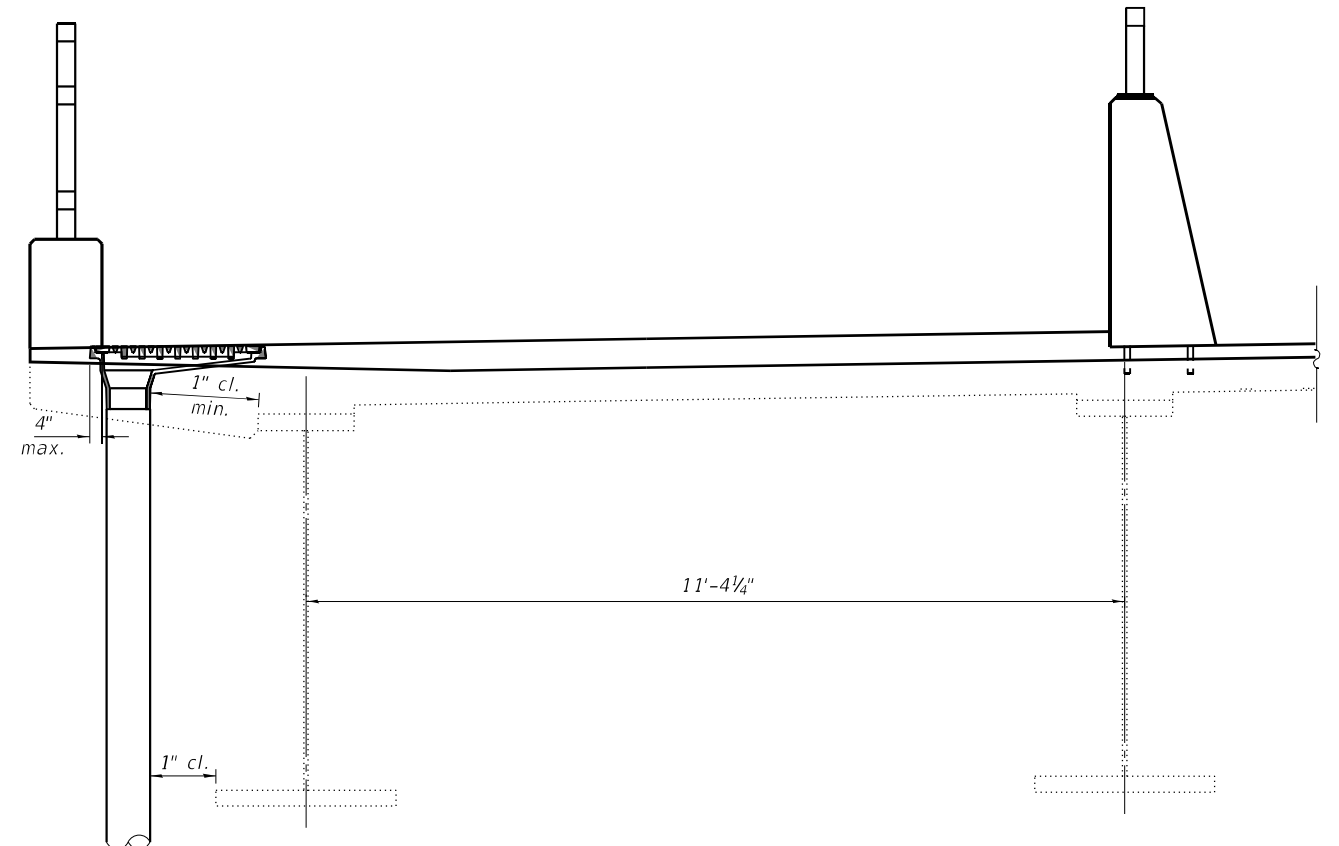
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| | DRAWN - SBA | REVISED - |
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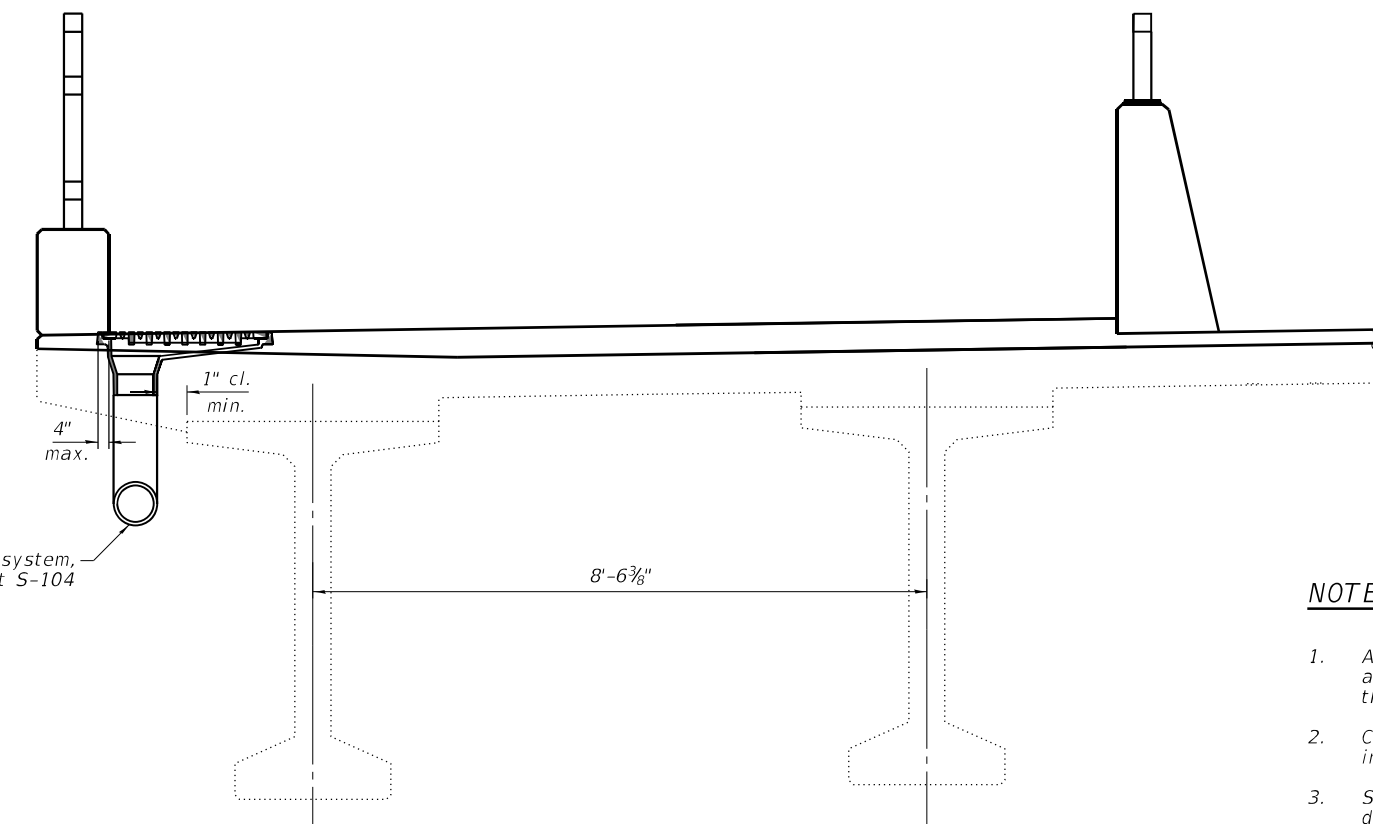
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|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 233 |
| CONTRACT NO. | | | 68F38 | |



EXISTING CONCRETE FASCIA BEAM DETAIL (SPANS 1-6)



EXISTING STEEL FASCIA BEAM DETAIL (SPANS 7-9)



EXISTING CONCRETE FASCIA BEAM DETAIL (SPANS 10-17)

NOTES:

1. ADA approved scuppers are to be used in the Multi-Use Path along the entire length of the bridge; see sheets S-96 through S-98 for scupper locations.
2. Cost of ADA approved scuppers and pipe extensions are included in "Drainage Scuppers (Special)".
3. See special provisions for size of scupper and grate dimensions

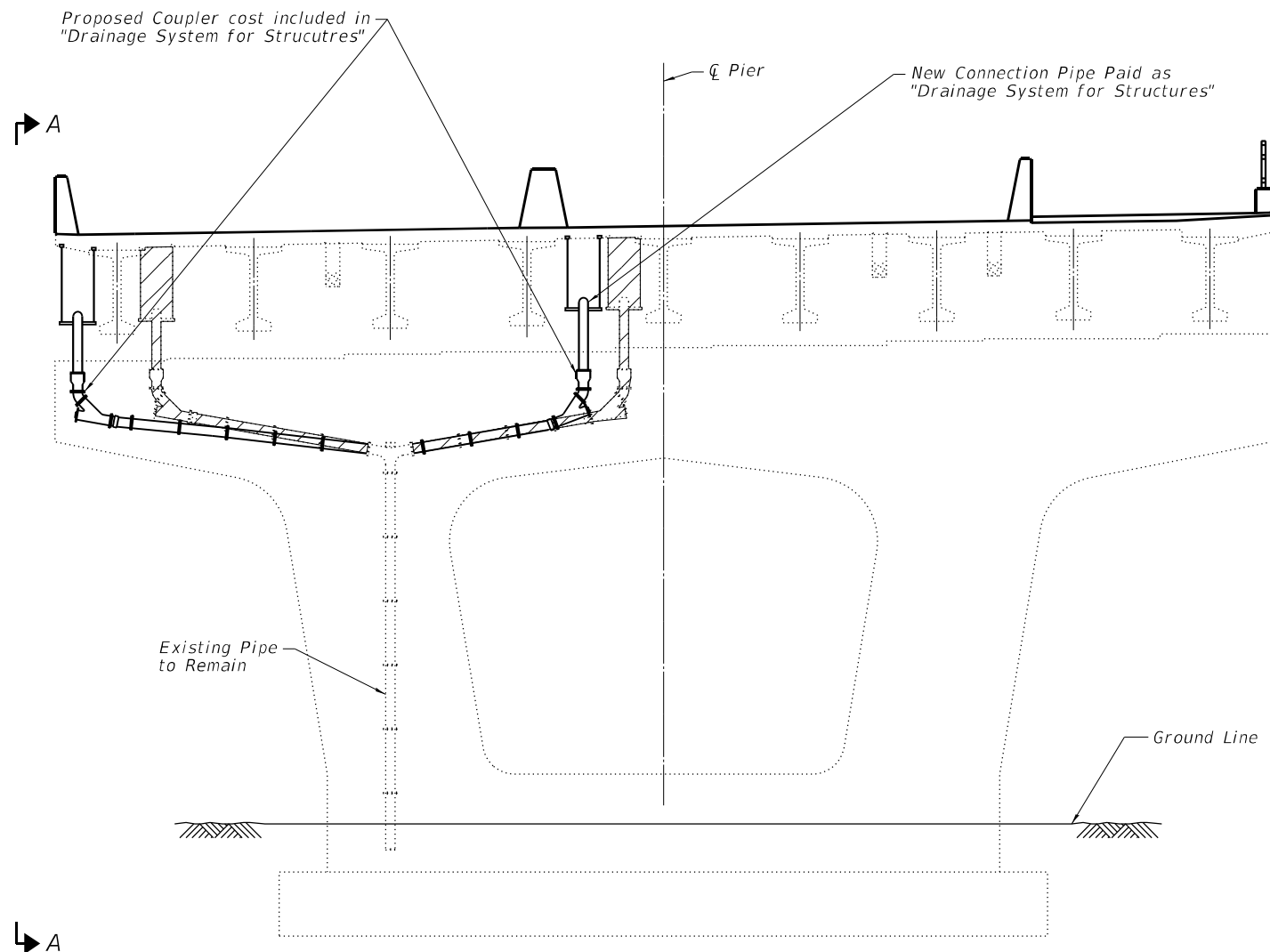
BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|-----------------------------|------|----------|
| Drainage Scuppers (Special) | Each | 21 |

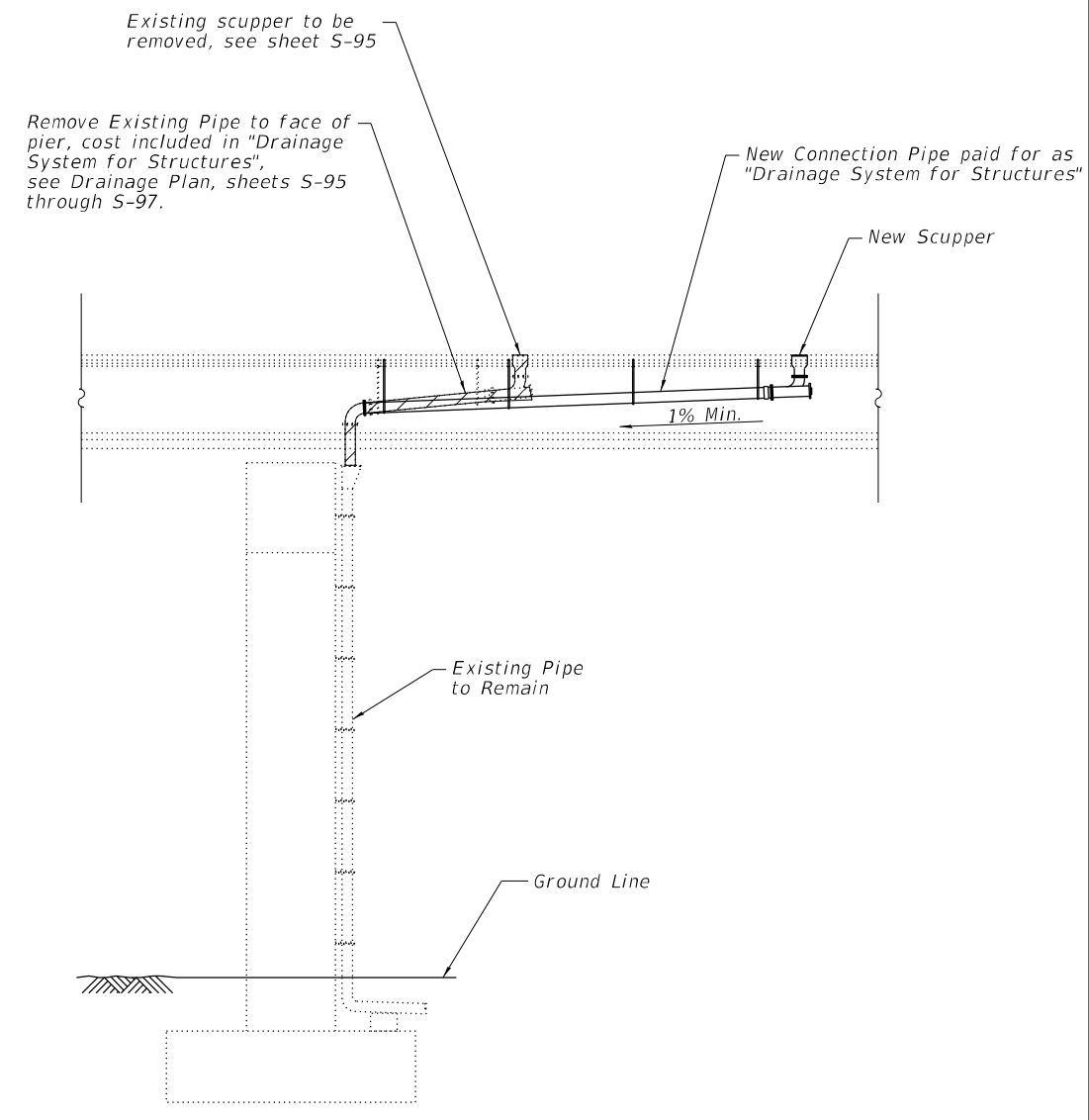
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| | DATE - 10/12/22 | REVISED - |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 234 |
| CONTRACT NO. | | | 68F38 | |



DRAIN PIPE ELEVATION AT APPROACH SLAB PIERS
 (Pier 4 shown, others similar)
 (Looking Downstation)



VIEW A-A

LEGEND

Drainage Removal

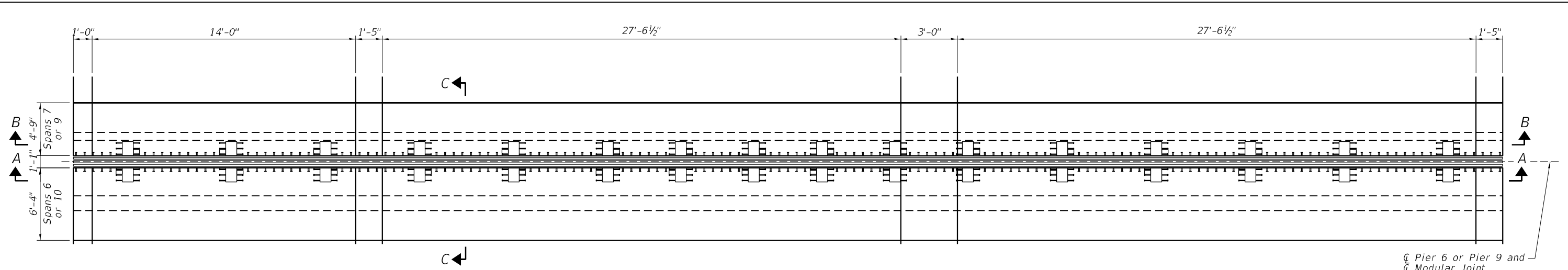
BILL OF MATERIAL

| Item | Unit | Quantity |
|--------------------------------|-------|----------|
| Drainage System For Structures | L Sum | 1 |

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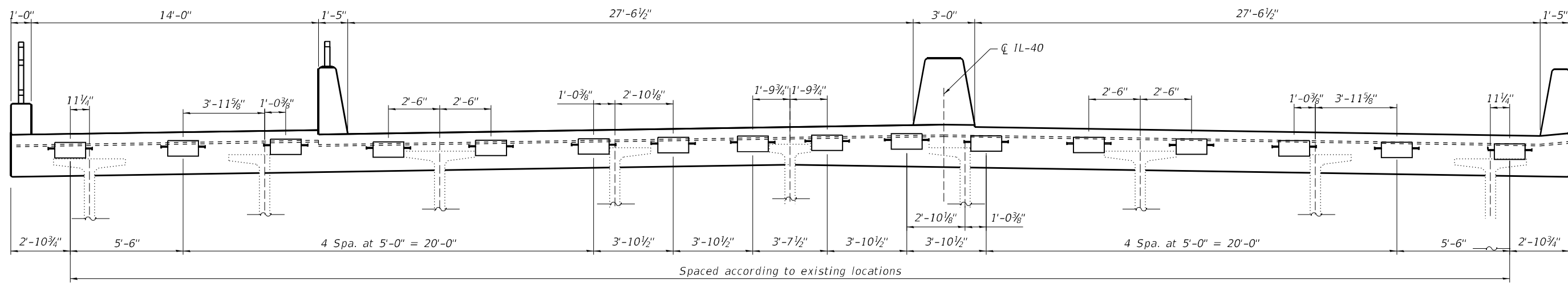
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------------|--------|--------------------|-----------|
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| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68F38 | |

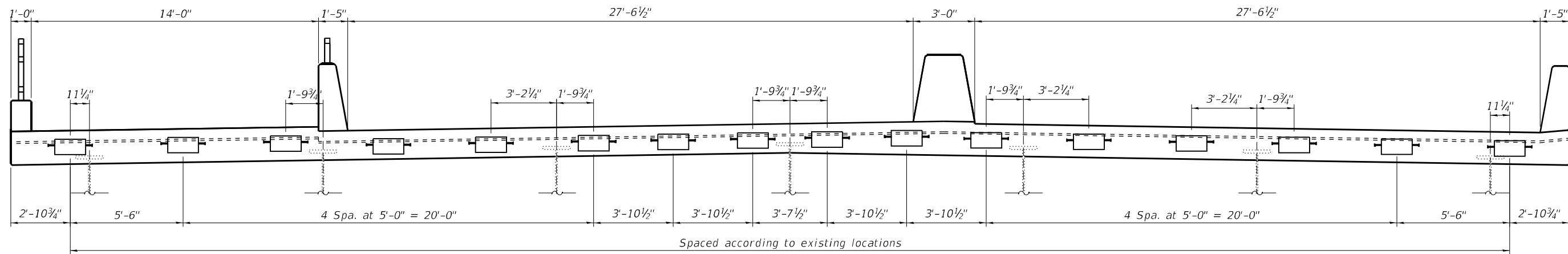


MODULAR EXPANSION JOINT PLAN AT PIERS 6 & 9

Centerline Pier 6 or Pier 9 and Modular Joint



SECTION A-A



SECTION B-B

NOTES

1. See Sheet S-106 for section C-C and additional notes.
2. Modular expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

(Piers 6 and 9, 1 of 2)

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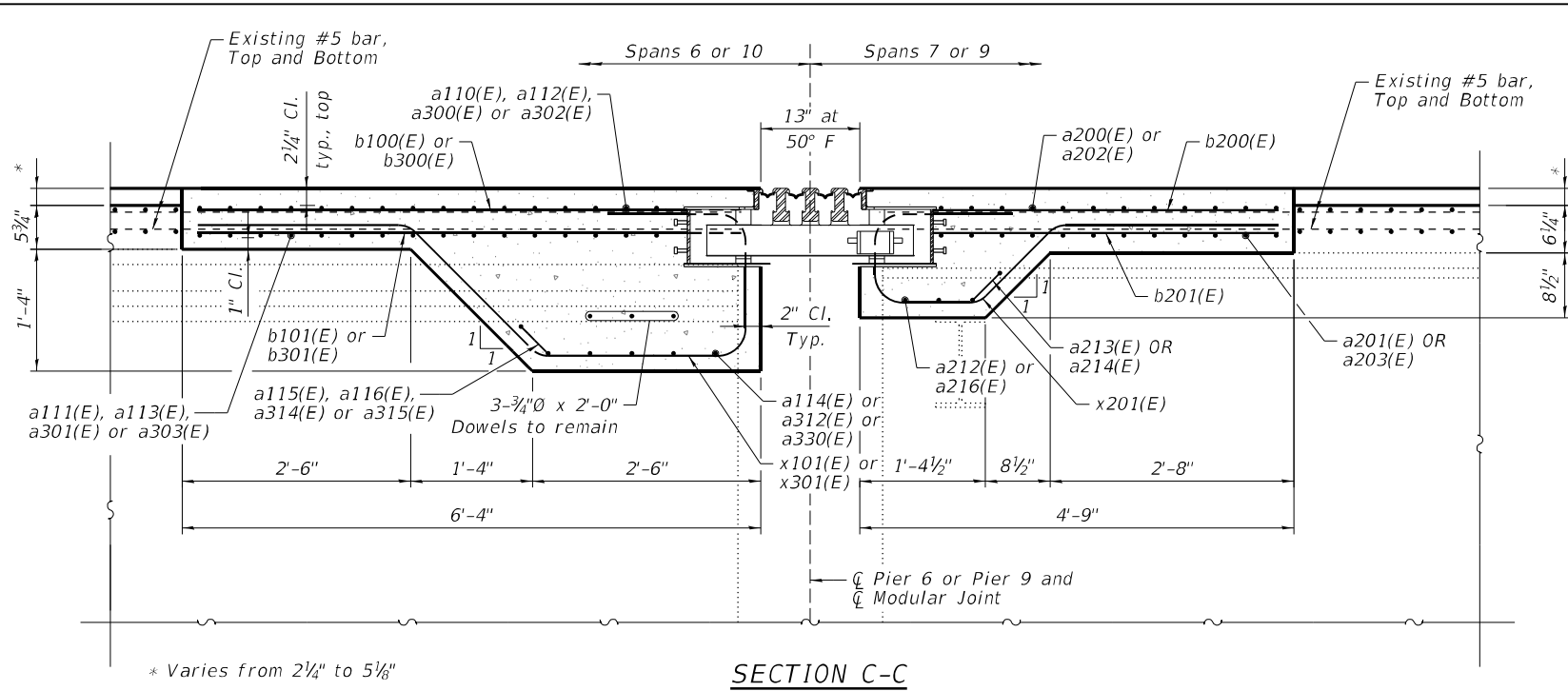
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MODULAR EXPANSION JOINT DETAILS I
 STRUCTURE NO. 090-0122

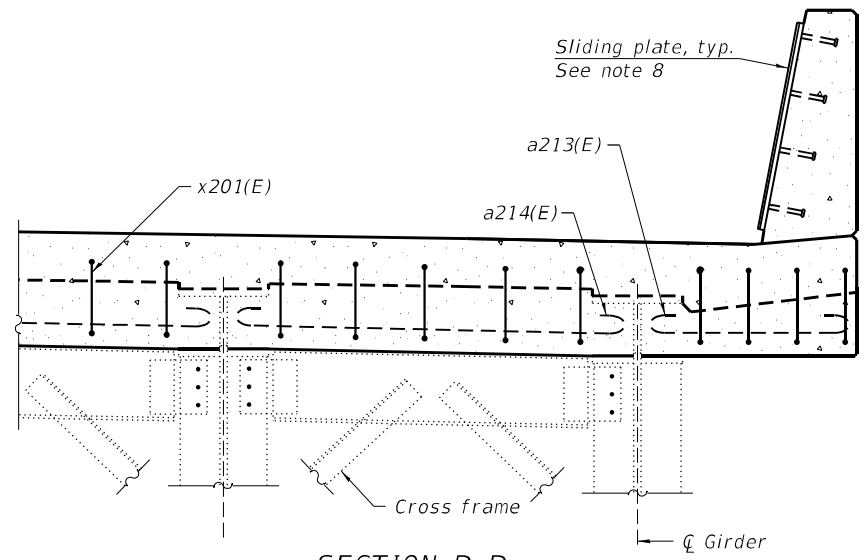
SHEET S-105 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| CONTRACT NO. | | | 68F38 | |

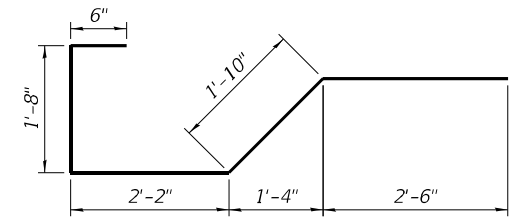
ILLINOIS FED. AID PROJECT PEORIA / TAZEVELL



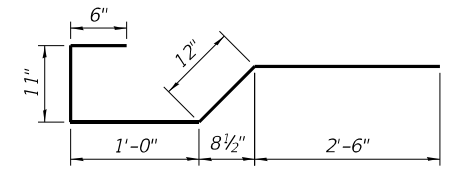
SECTION C-C



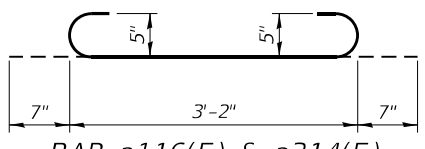
SECTION D-D



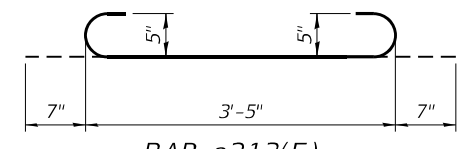
BAR x101(E) & x301(E)



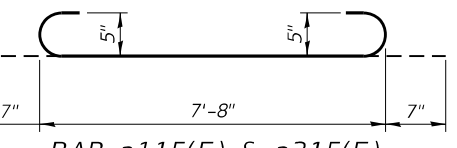
BAR x201(E)



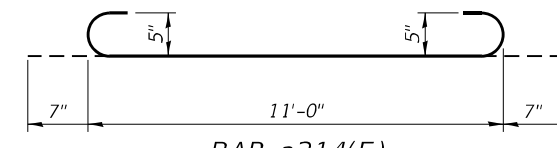
BAR a116(E) & a314(E)



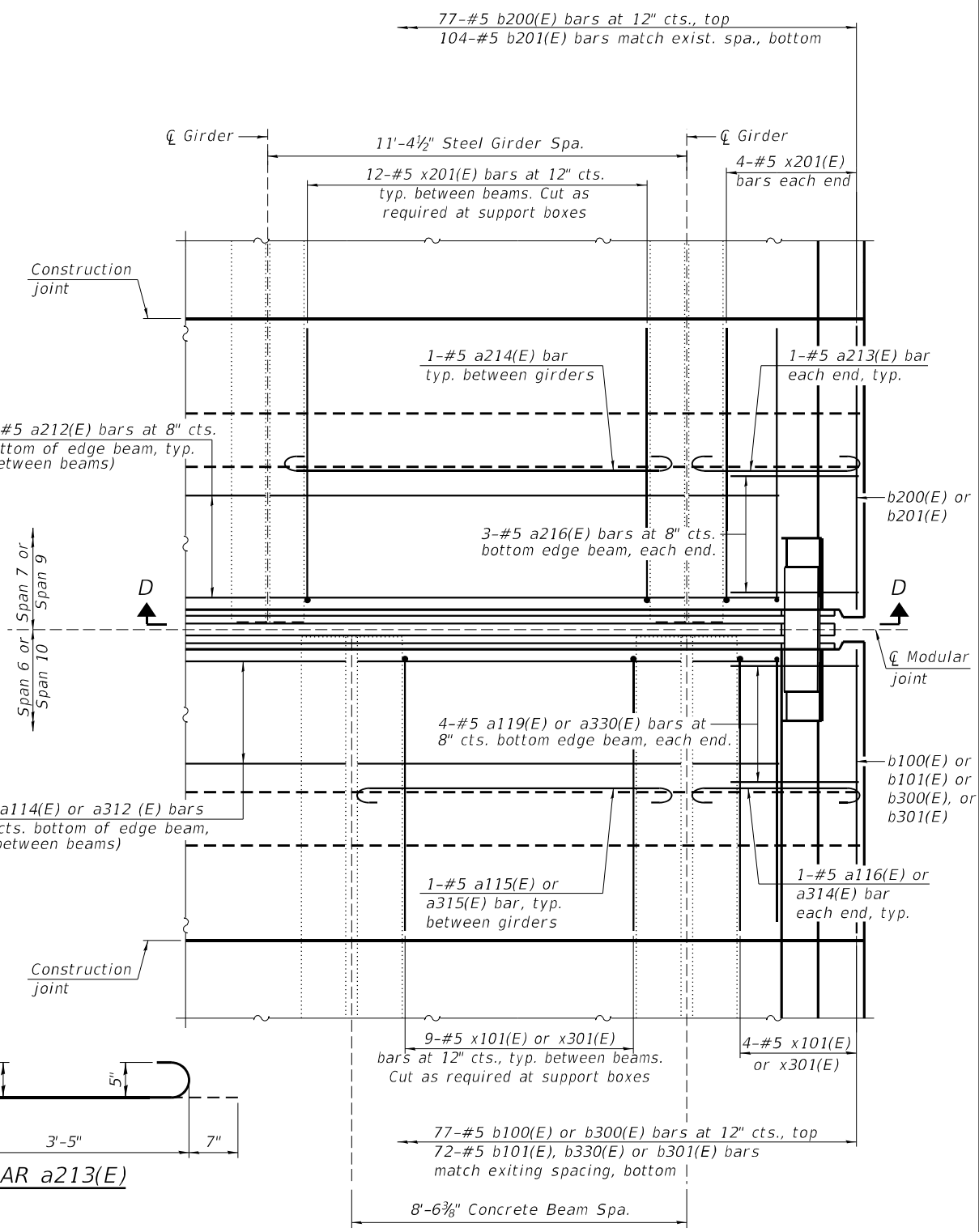
BAR a213(E)



BAR a115(E) & a315(E)



BAR a214(E)



PARTIAL PLAN

(Support Boxes not shown for clarity)

(Piers 6 and 9, 2 of 2)

NOTES:

- Actual dimensions may vary depending on modular joint manufacturer's design.
- Existing beams were cut to accommodate the support boxes. Support boxes spacing shown in the cross-sections are based on existing conditions. If manufacturer is to change the existing spacing, it is the Contractor and manufacturer responsibility to verify boxes will not interfere with the existing beams.
- Modular expansion joints shall be installed with forming and reinforcement bars in place prior to pouring the adjoining concrete deck span.
- Modular expansion joints shall be adjusted for temperature prior to pouring the breakout area.
- Modular expansion joints shall be assembled in their final relative position with ends in place for shop inspection and acceptance.
- See deck plan and superstructure cross section sheets for primary slab reinforcement size and spacing.
- See superstructure details for reinforcement Bill of Material.
- See sheet S-110 for sliding plate details.
- Existing reinforcement shall be cleaned and incorporated in the new construction, cost included with Concrete Removal.

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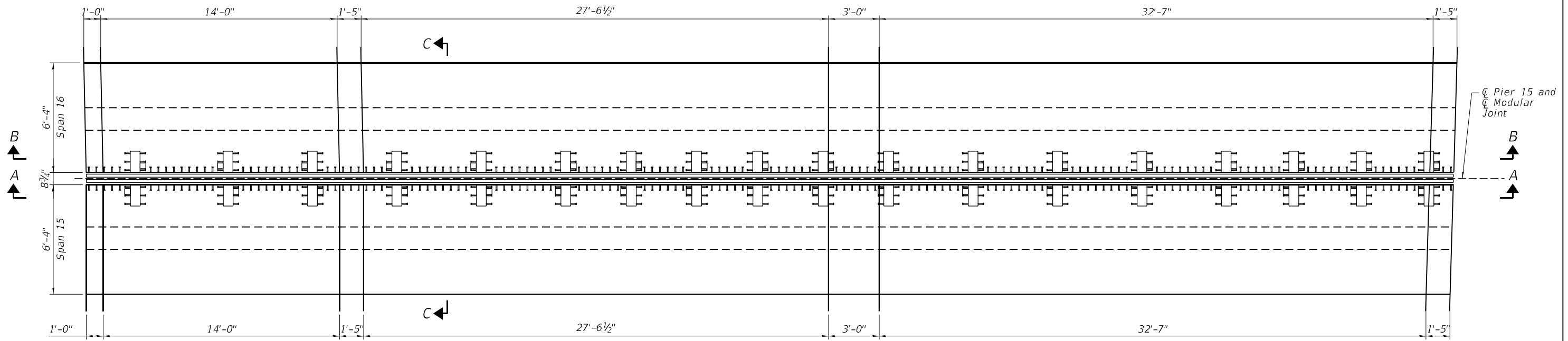
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODULAR EXPANSION JOINT DETAILS II
STRUCTURE NO. 090-0122

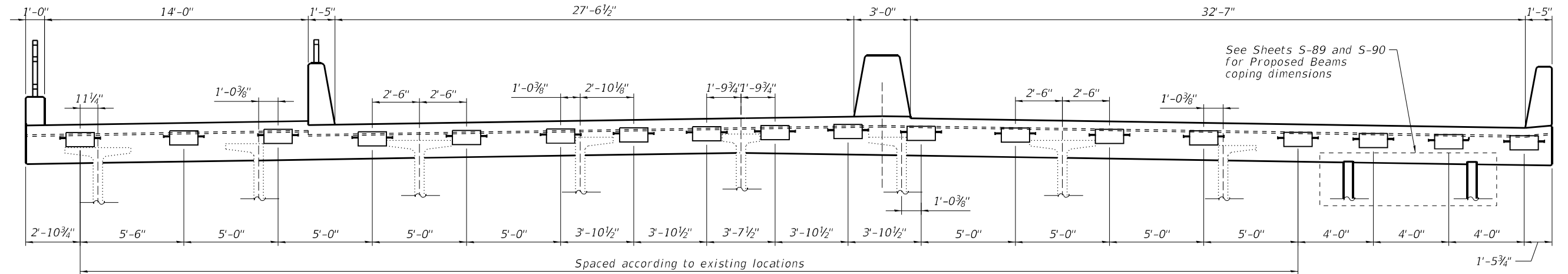
SHEET S-106 OF S-122 SHEETS

| | | | | |
|--------------------|-------------------------------|----------|---------------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY - | TOTAL SHEETS 286 | SHEET NO. 237 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT | |

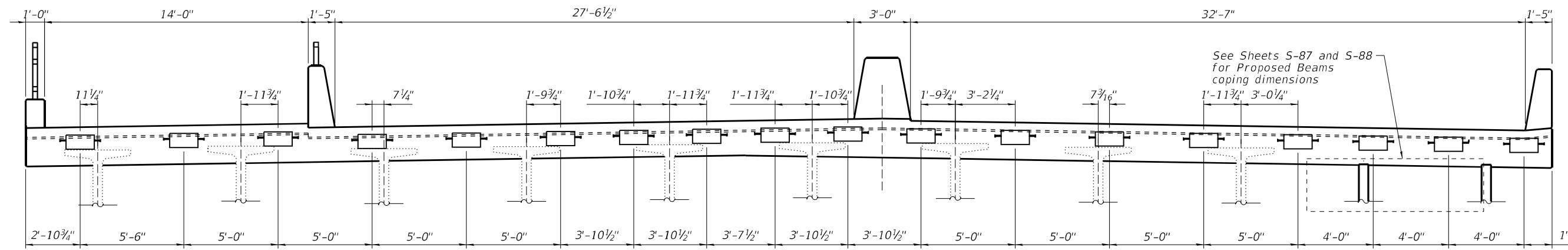
PEORIA / TAZEVELL



MODULAR EXPANSION JOINT PLAN AT PIER 15



SECTION A-A



SECTION B-B

(Pier 15, 1 of 3)

- NOTES:**
1. See Sheet S-108 for section C-C and additional notes.
 2. Modular expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

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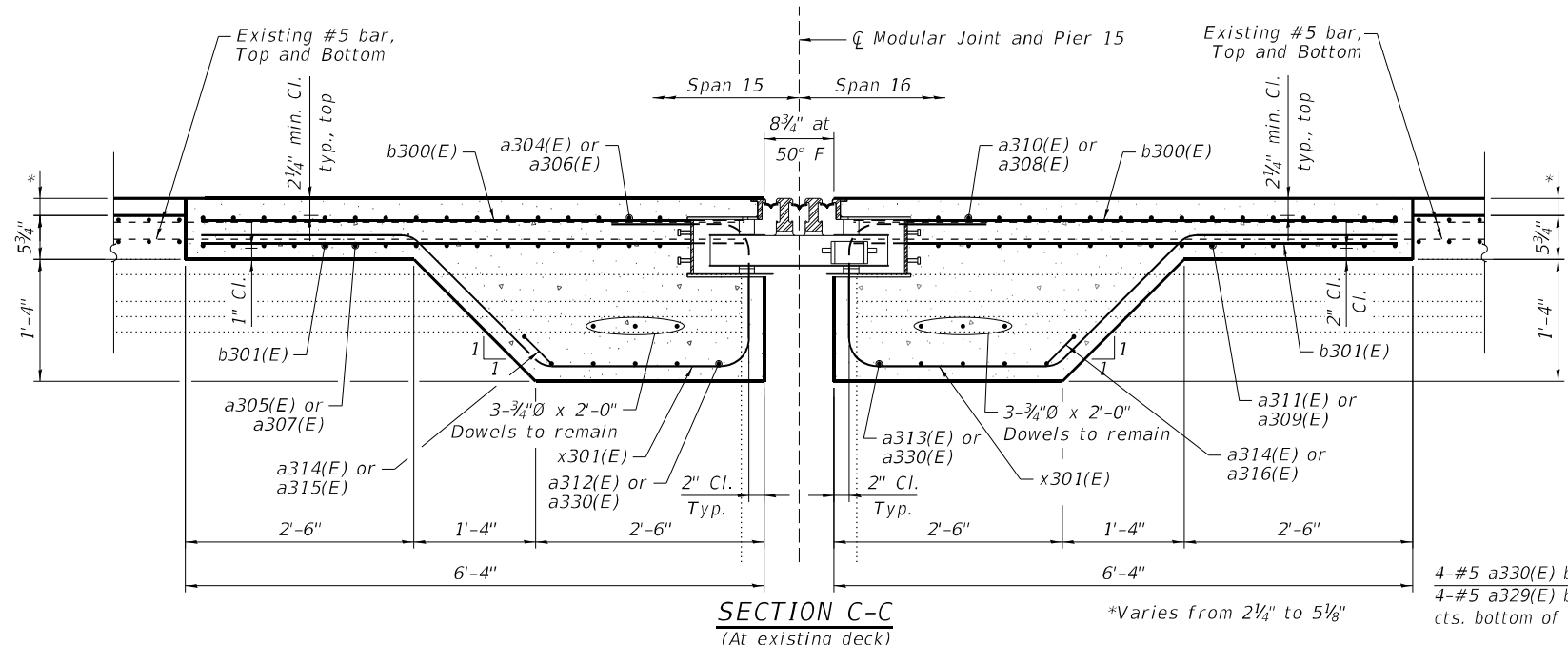
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| | DRAWN - SBA | REVISED - |
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MODULAR EXPANSION JOINT DETAILS III
 STRUCTURE NO. 090-0122
 SHEET S-107 OF S-122 SHEETS

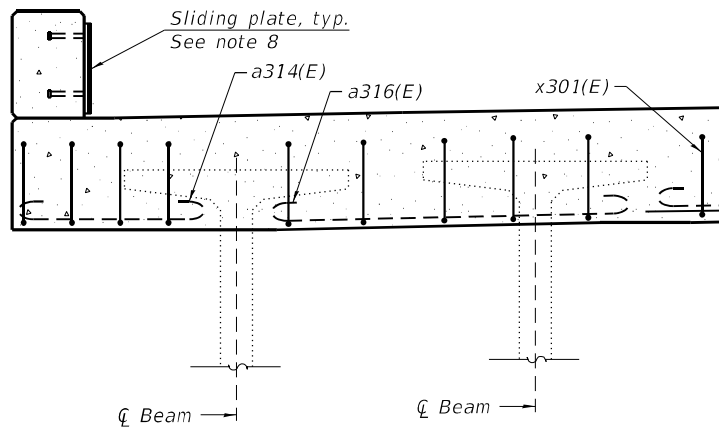
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|--------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 238 |
| CONTRACT NO. 68F38 | | | | |

ILLINOIS FED. AID PROJECT

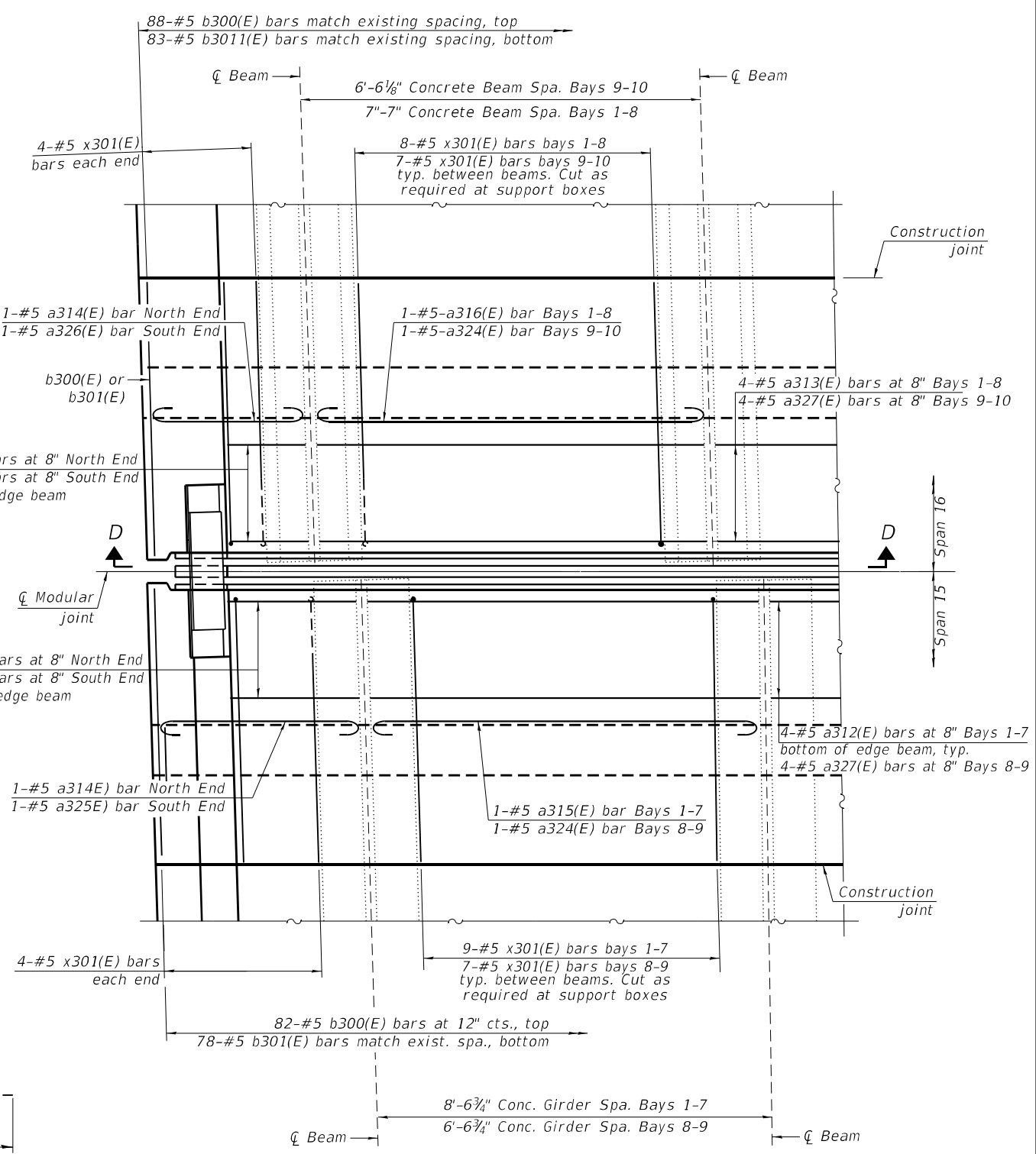


SECTION C-C
(At existing deck)

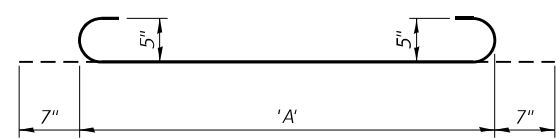
*Varies from 2 1/4" to 5 1/8"



SECTION D-D



PARTIAL PLAN
(Not to Scale)



BAR a316(E), a324(E), a325(E) & a326(E)

| Bar | 'A' |
|---------|--------|
| a316(E) | 6'-9" |
| a324(E) | 5'-8" |
| a325(E) | 3'-8" |
| a326(E) | 2'-11" |

(Pier 15, 2 of 3)

NOTES:

- Actual dimensions may vary depending on modular joint manufacturer's design.
- Existing beams were cut to accommodate the support boxes. Support boxes spacing shown in the cross-sections are based on existing conditions. If manufacturer is to change spacing, it is the Contractor and manufacturer responsibility to verify boxes will not interfere with the existing beams.
- Modular expansion joints shall be installed with forming and reinforcement bars in place prior to pouring the adjoining concrete deck span.
- Modular expansion joints shall be adjusted for temperature prior to pouring the breakout area.
- Modular expansion joints shall be assembled in their final relative position with ends in place for shop inspection and acceptance.
- See deck plan and superstructure cross section sheets for primary slab reinforcement size and spacing.
- See superstructure details for reinforcement Bill of Material.
- See sheet S-110 for sliding plate details.
- Existing reinforcement shall be cleaned and incorporated in the new construction, cost included with Concrete Removal.
- See Sheet S-106 for bar bending diagrams of a314(E), a315(E) and x301(E)

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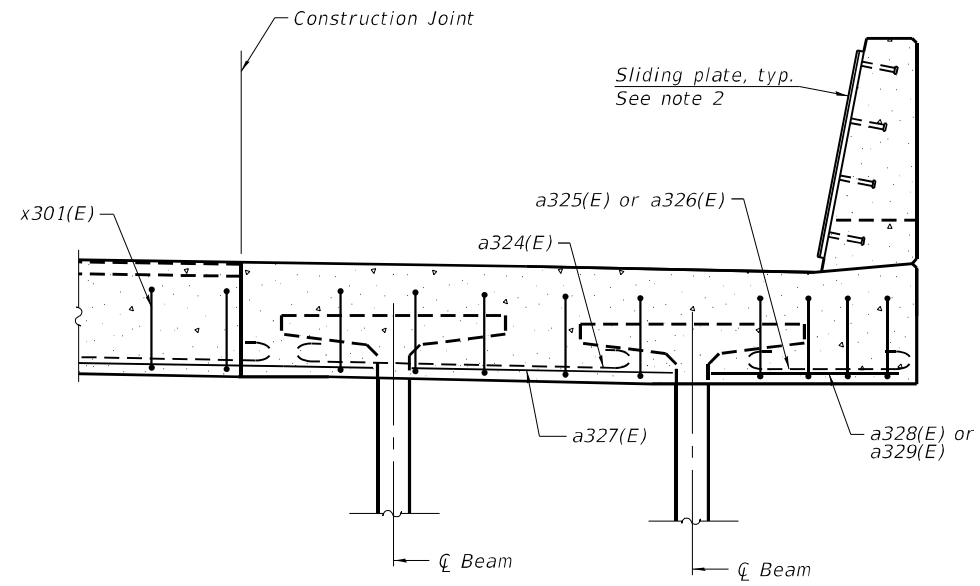
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| | DATE - 10/12/22 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

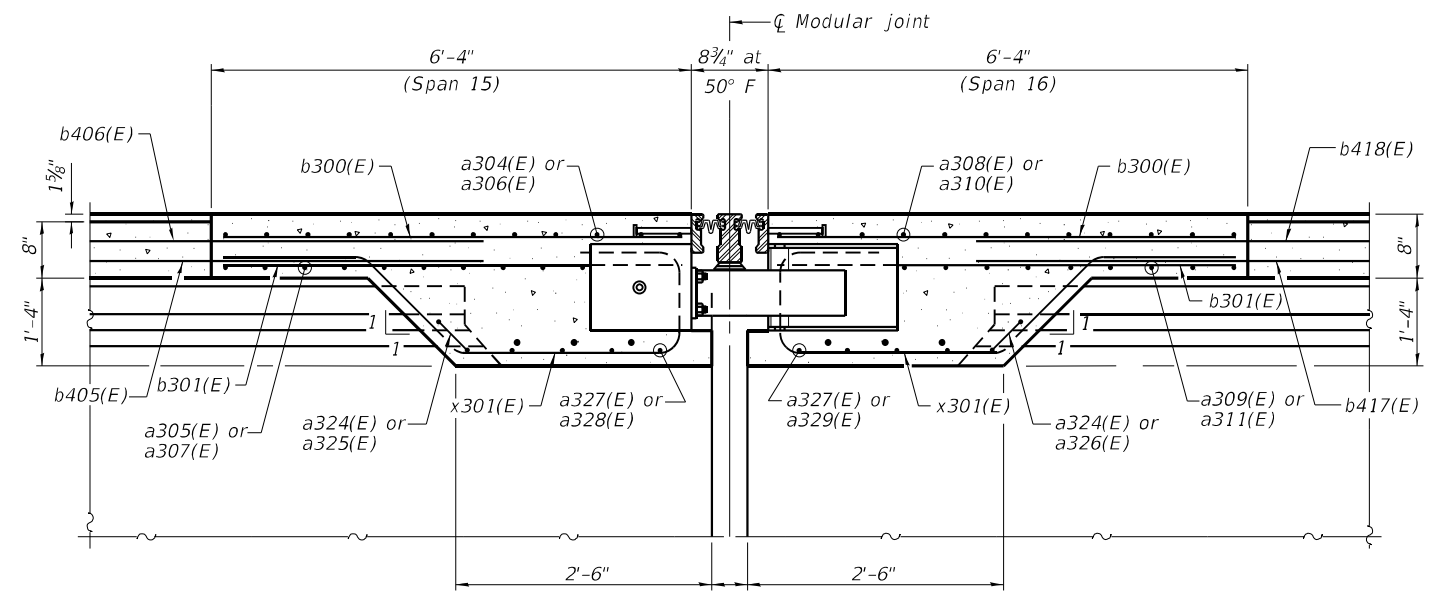
MODULAR EXPANSION JOINT DETAILS IV
STRUCTURE NO. 090-0122

SHEET S-108 OF S-122 SHEETS

| | | | | |
|--------------------|-------------------------------|----------|---------------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY - | TOTAL SHEETS 286 | SHEET NO. 239 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT | |



SECTION THRU SOUTH END OF DECK
(Looking Upstation)



SECTION B-B
(At Widening)

NOTE:
1. See sheet S-108 for notes.

(Pier 15, 3 of 3)

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P 773.775.4009 | www.ciorba.com

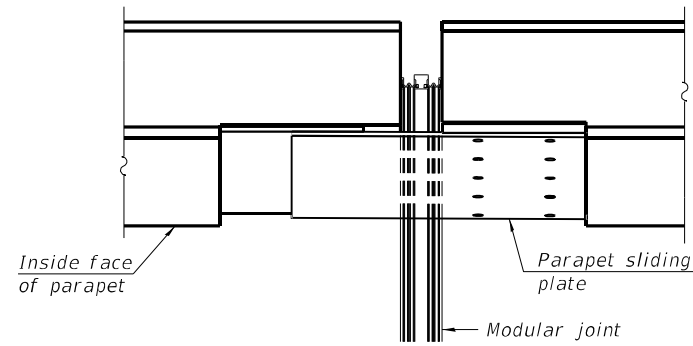
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

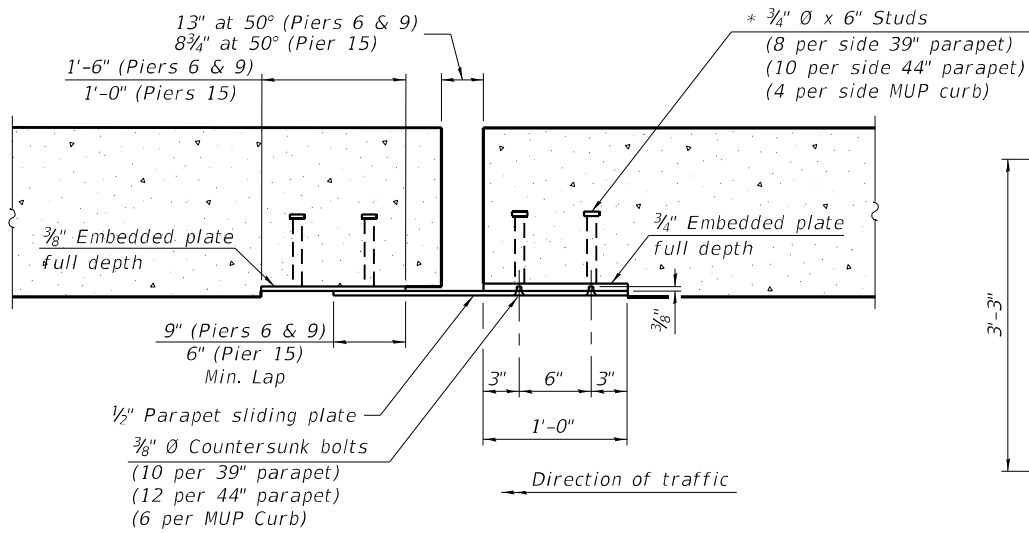
MODULAR EXPANSION JOINT DETAILS V
STRUCTURE NO. 090-0122

SHEET S-109 OF S-122 SHEETS

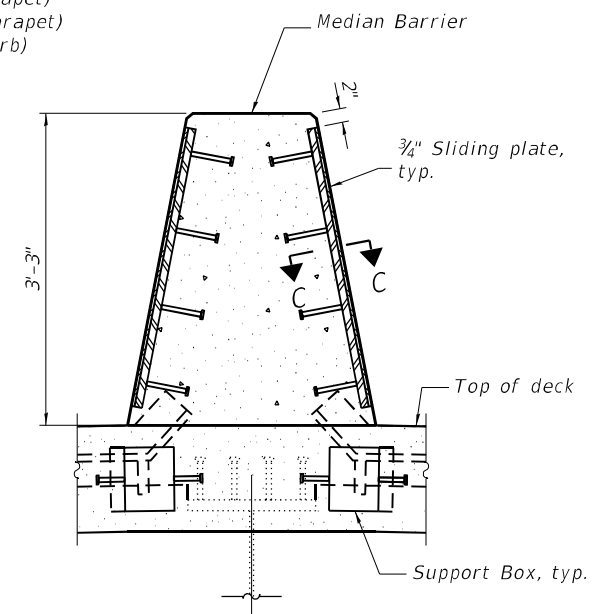
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|--------------|-----------------------|------------------|--------------|-----------|
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| CONTRACT NO. | | | 68F38 | |
| ILLINOIS | | FED. AID PROJECT | | |



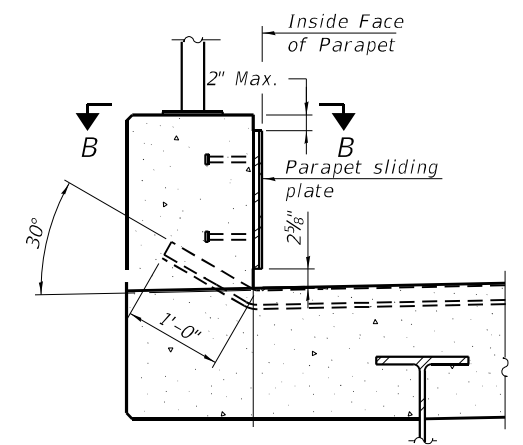
PLAN AT PARAPET



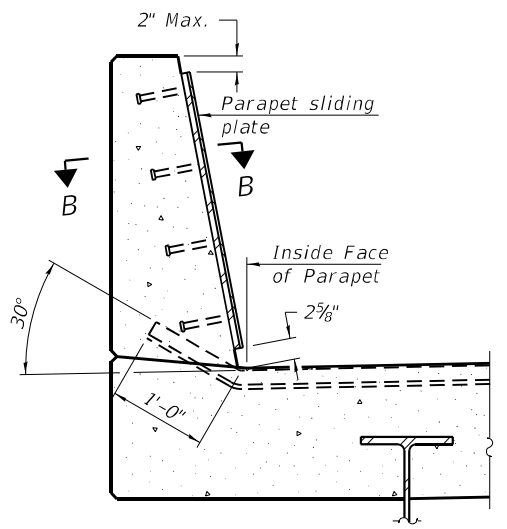
SECTION B-B AND C-C



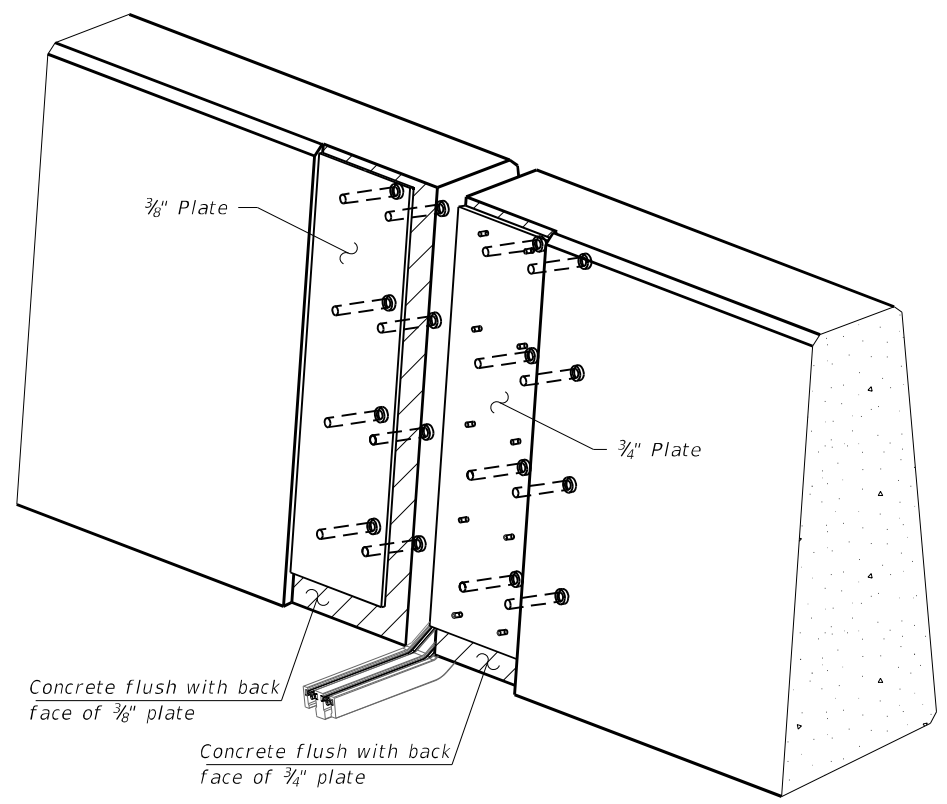
SECTION AT MEDIAN



SECTION AT MULTI-USE PATH CURB



SECTION AT PARAPET



TRIMETRIC VIEW
(Showing embedded plates only)

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Standard Specifications, automatically end welded.

BILL OF MATERIAL

| Item | Unit | Quantity |
|-----------------------------|------|----------|
| Modular Expansion Joint 9" | Foot | 78 |
| Modular Expansion Joint 12" | Foot | 154 |

NOTES:

- All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
- Cost of parapet sliding plates, embedded plates, and anchorage studs, is included with Modular Expansion Joint 9" and Modular Expansion Joint 12".
- Actual dimension of joint opening may vary based on modular joint manufacturer's design.

| Location | Total Long. Movement (in.) | Joint Size (in.) |
|----------|----------------------------|------------------|
| Pier 6 | 8.3" | 12" |
| Pier 9 | 9.4" | 12" |
| Pier 15 | 5.0" | 9" |

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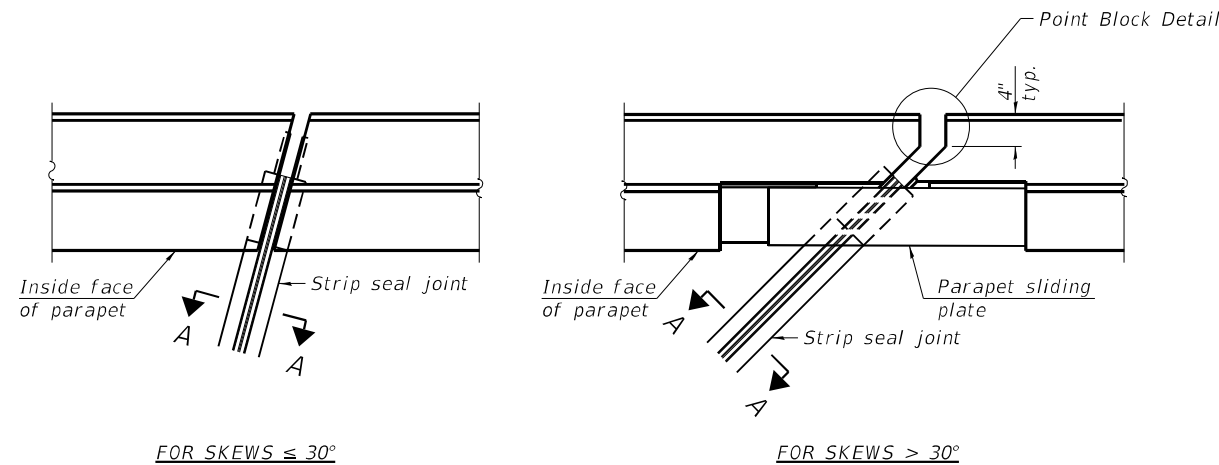
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| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MODULAR EXPANSION JOINT DETAILS VI
STRUCTURE NO. 090-0122**

SHEET S-110 OF S-122 SHEETS

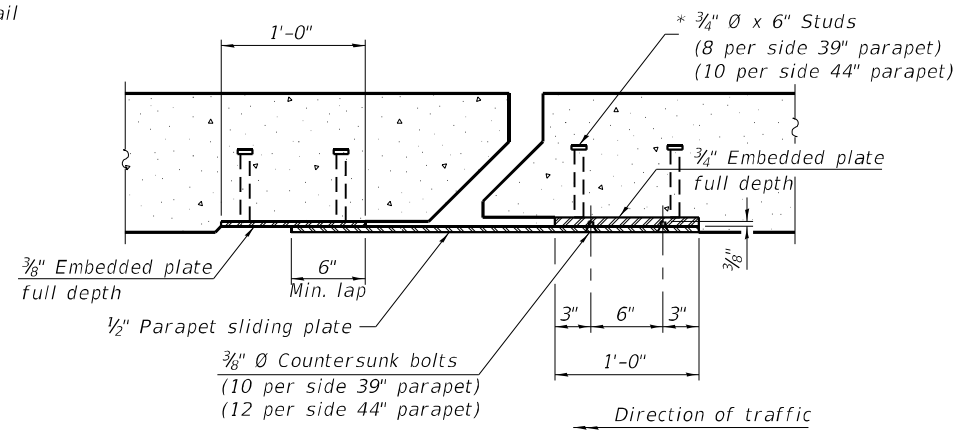
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. | 68F38 |



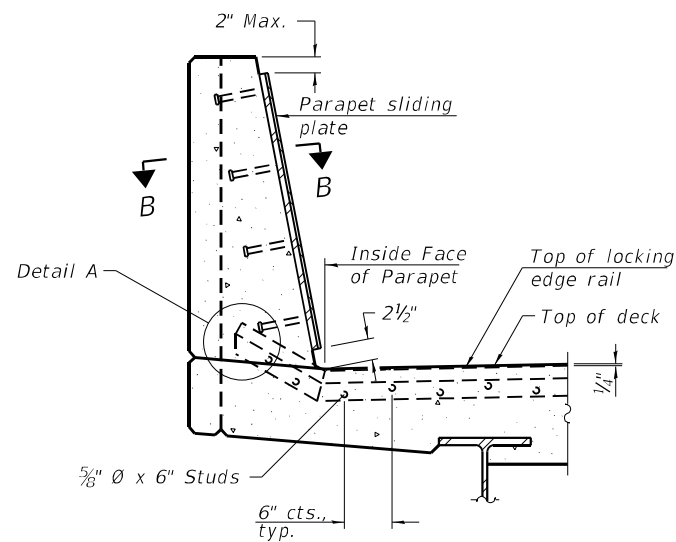
FOR SKEWS $\leq 30^\circ$

FOR SKEWS $> 30^\circ$

PLAN AT PARAPET

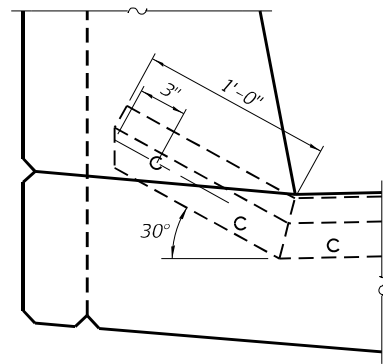


SECTION B-B

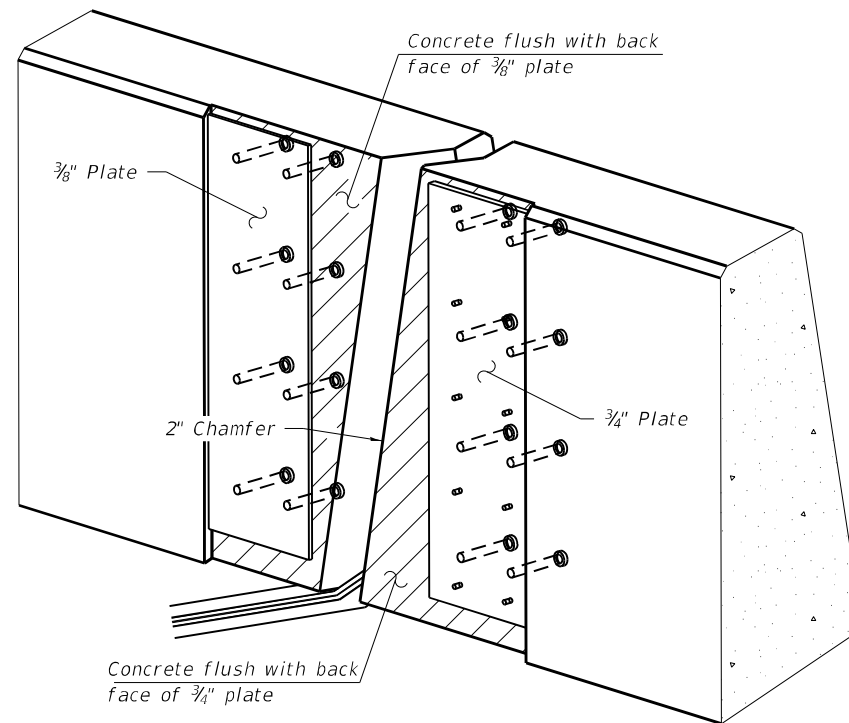


SECTION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



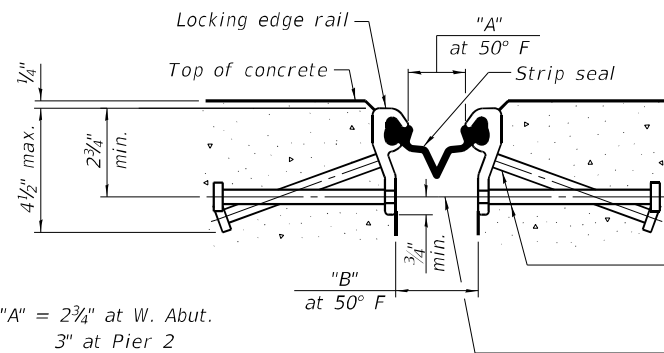
DETAIL A



TRIMETRIC VIEW

(Showing embedded plates only)

Note: See Sheet S-110 for sliding plate details for the median and multi-use path curb.

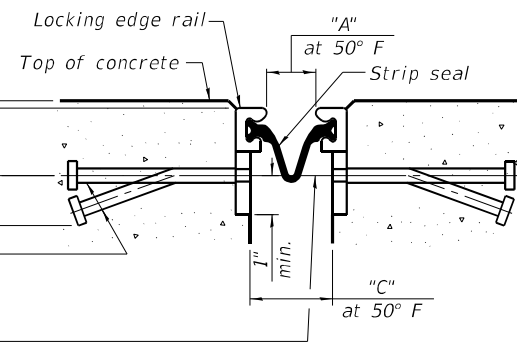


SHOWING ROLLED RAIL JOINT

"A" = 2 3/4" at W. Abut.
3" at Pier 2
1 1/2" at E. Abut.
"B" = 3 5/8" at W. Abut.
3 3/8" at Pier 2
2 3/8" at E. Abut.
"C" = 4 1/4" at W. Abut.
4 1/2" at Pier 2
3" at E. Abut.

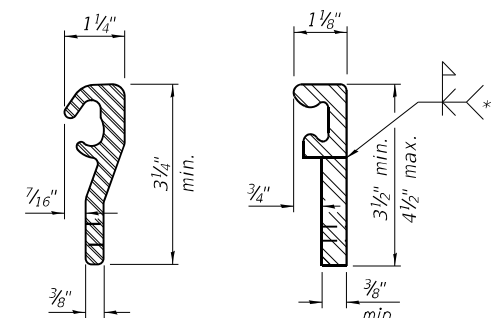
* 3/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

3/8" ϕ threaded rods in 1/16" ϕ holes at ± 4 -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

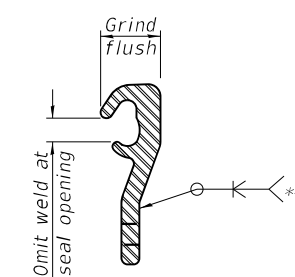


ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------------|------|-------|
| Preformed Joint Strip Seal | Foot | 275 |

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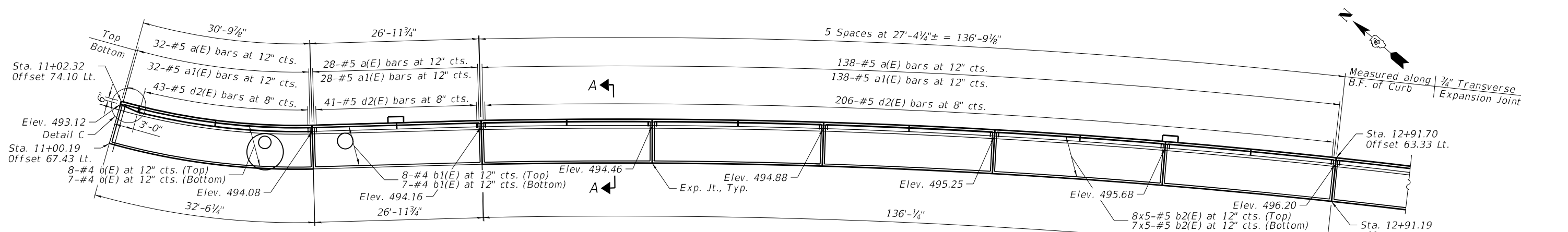
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| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

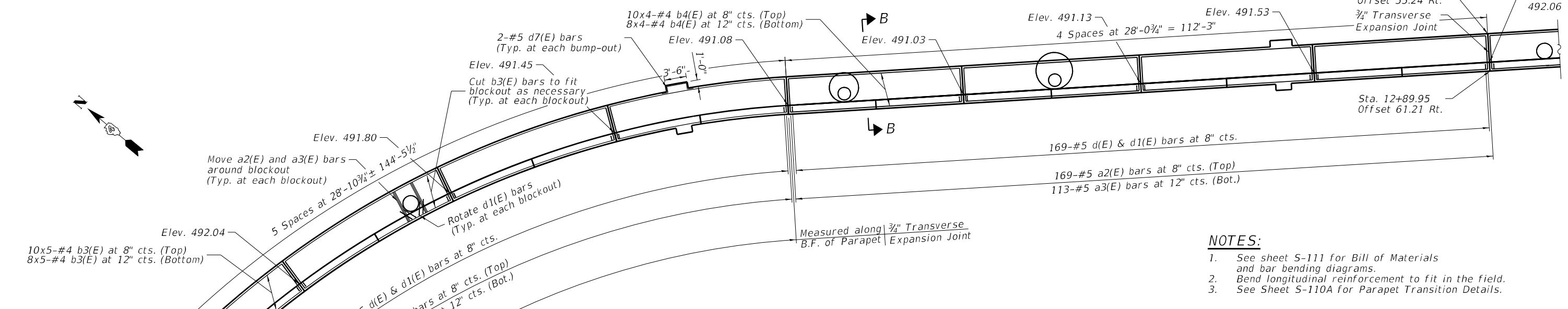
**PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 090-0122**

SHEET S-111 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------------|--------|--------------|-----------|
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| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. | 68F38 |

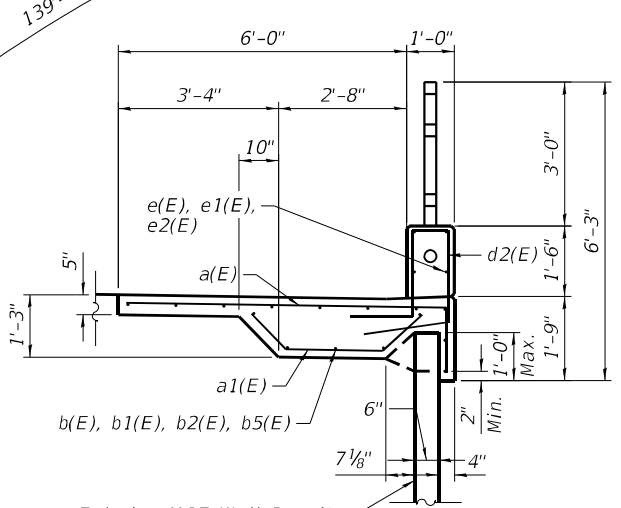


MOMENT SLAB PLAN - NORTH WALL STA 11+00.19 TO STA 12+91.19

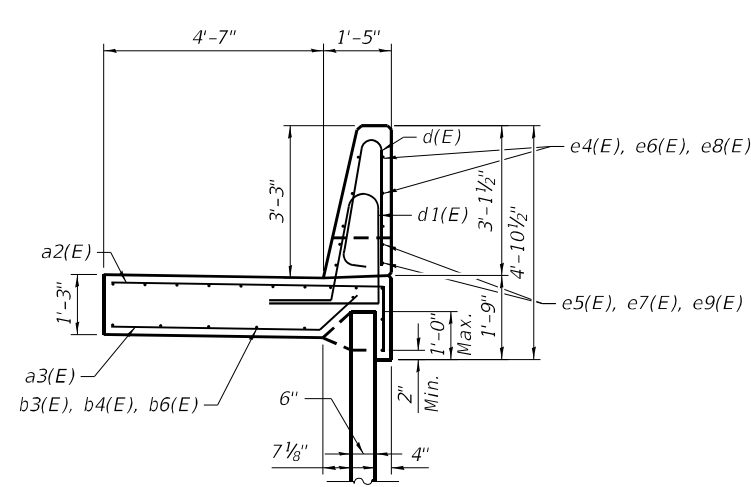


MOMENT SLAB PLAN - SOUTH WALL STA 10+51.83 TO STA 12+89.37

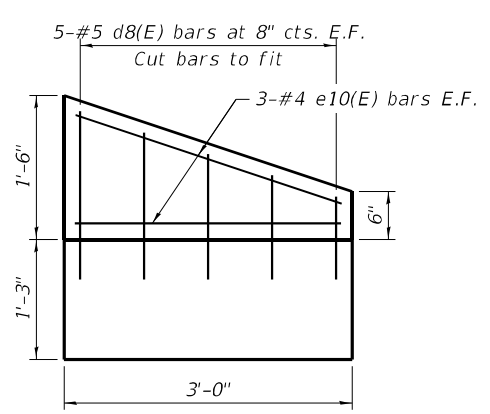
- NOTES:**
1. See sheet S-111 for Bill of Materials and bar bending diagrams.
 2. Bend longitudinal reinforcement to fit in the field.
 3. See Sheet S-110A for Parapet Transition Details.



SECTION A-A



SECTION B-B



DETAIL C

*Removal of Existing MSE Wall Panel required to meet moment slab geometry included in moment slab removal.

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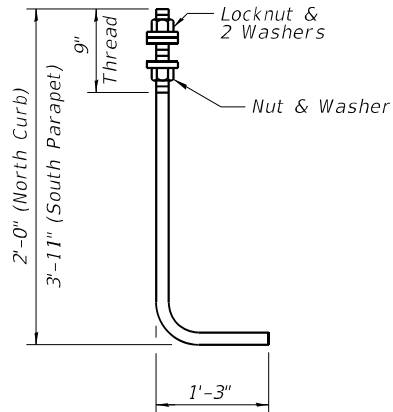
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| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MOMENT SLAB WEST ABUTMENT I
 STRUCTURE NO. 090-0122**

| | | | | |
|--------------------|-------------------------------|----------|---------------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY - | TOTAL SHEETS 286 | SHEET NO. 243 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT | |

SHEET S-112 OF S-122 SHEETS

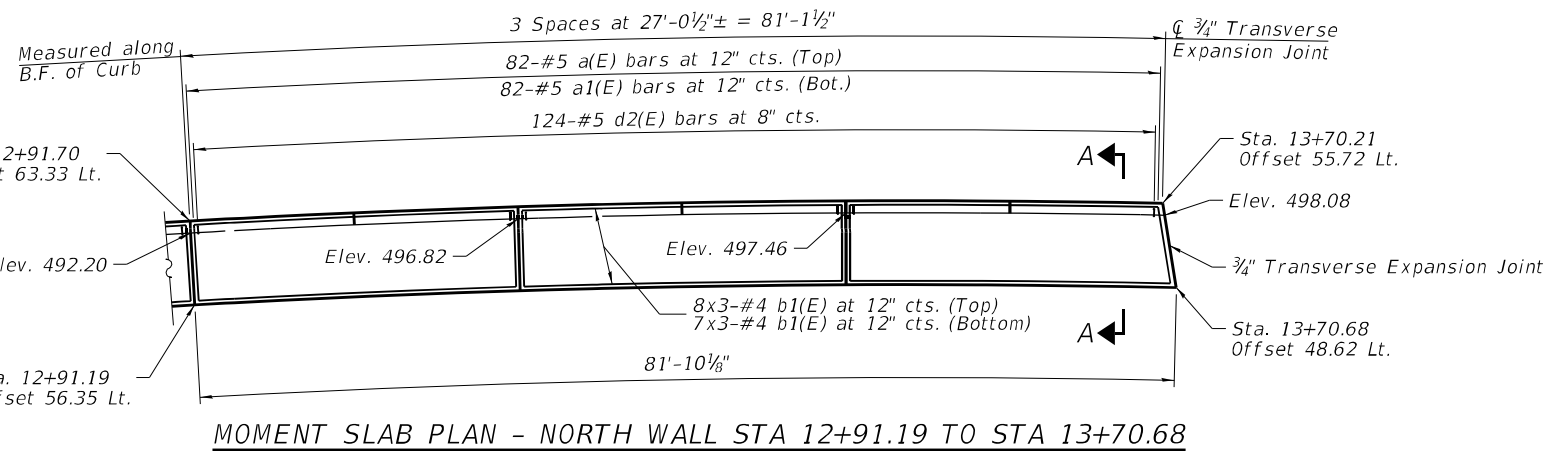


ANCHOR ROD

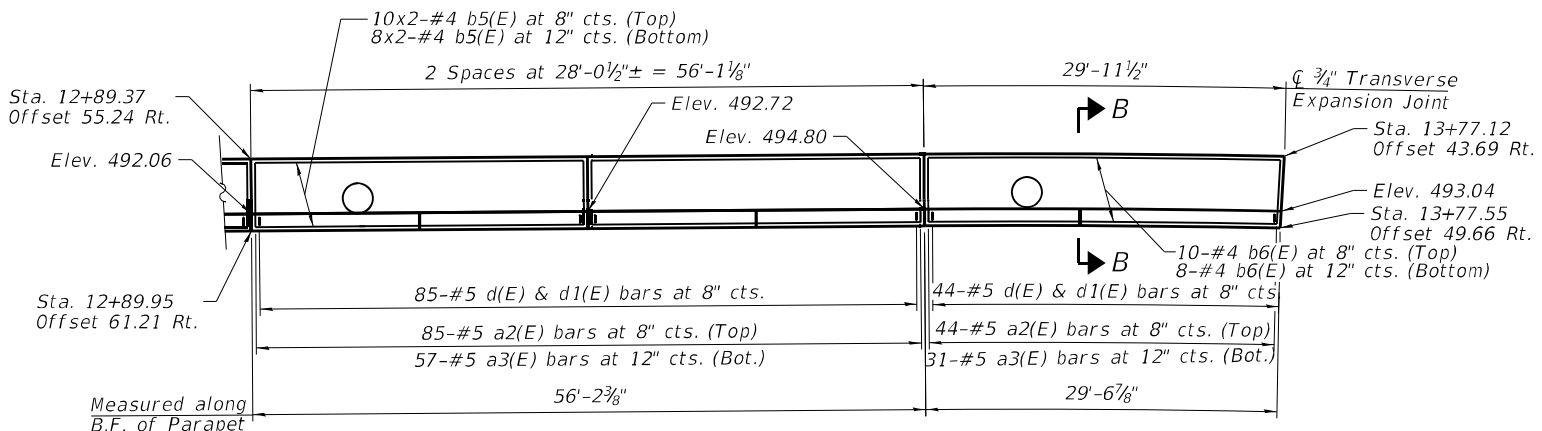
Diameter as specified for light poles.
(ASTM F 1554 Grade 105)
(Cost included with Concrete Superstructure)

NOTES:

- See Sheet S-112 for Sections A-A and B-B.
- Cut bars b(E) through b6(E) in the field when necessary at curved sections where lengths vary from one side of moment slab to the other.



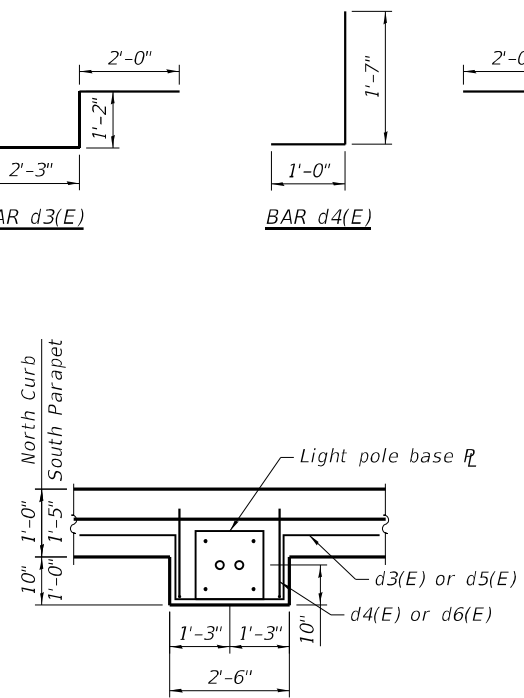
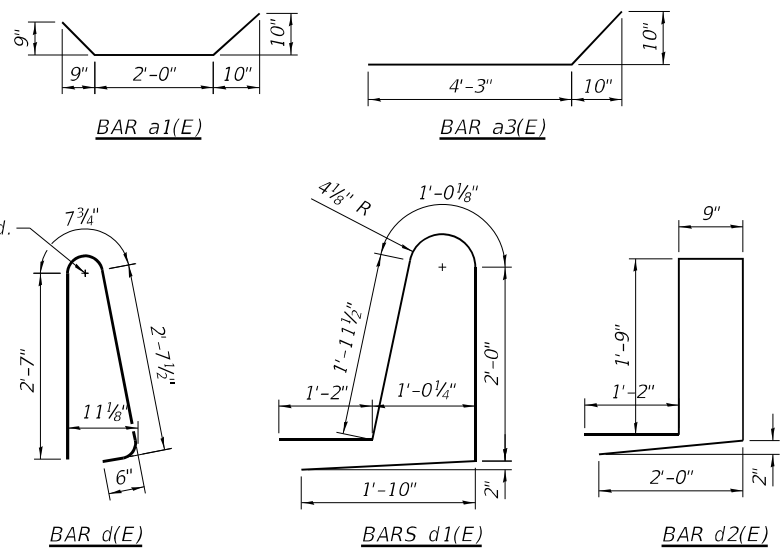
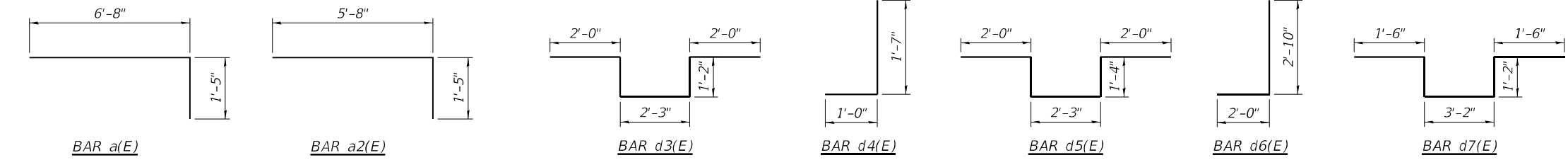
MOMENT SLAB PLAN - NORTH WALL STA 12+91.19 TO STA 13+70.68



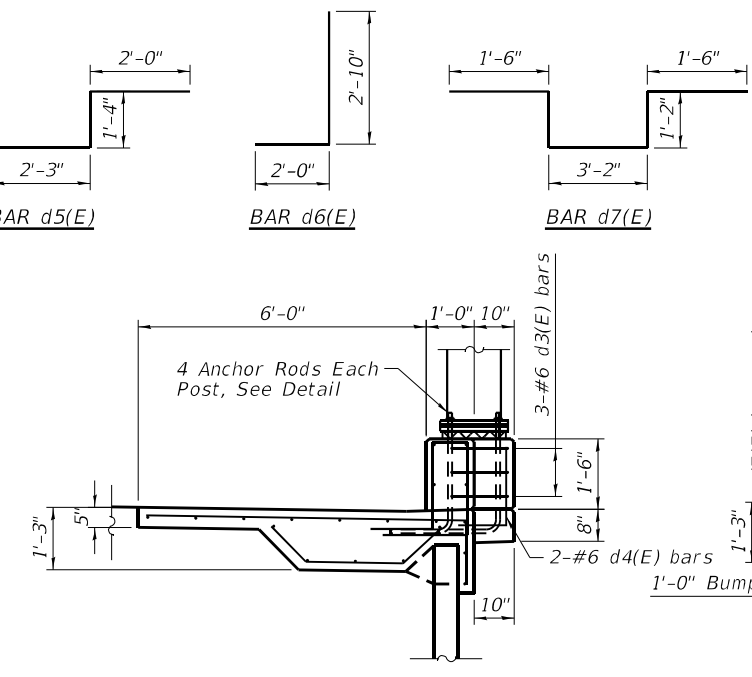
MOMENT SLAB PLAN - SOUTH WALL STA 12+89.37 TO STA 13+77.55

MOMENT SLAB BOM

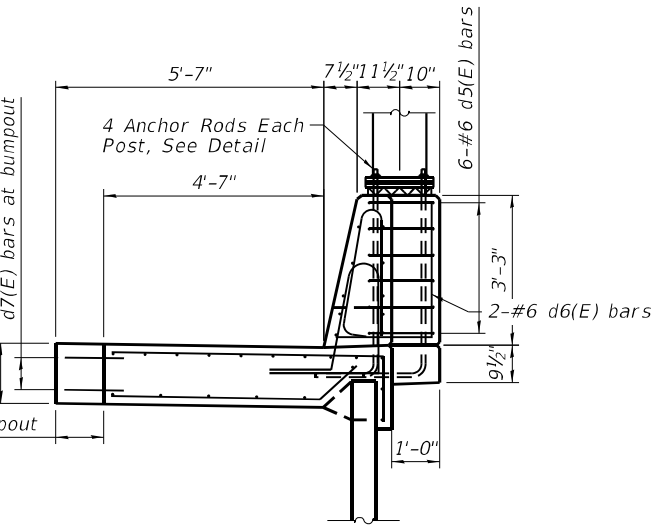
| Bar | No. | Size | Length | Shape |
|----------------------------------|-------|--------|---------|-------|
| a(E) | 280 | #5 | 8'-1" | — |
| a1(E) | 280 | #5 | 4'-3" | — |
| a2(E) | 514 | #5 | 7'-1" | — |
| a3(E) | 346 | #5 | 5'-5" | — |
| b(E) | 15 | #4 | 32'-2" | — |
| b1(E) | 60 | #4 | 26'-8" | — |
| b2(E) | 75 | #4 | 26'-5" | — |
| b3(E) | 72 | #4 | 30'-9" | — |
| b4(E) | 72 | #4 | 30'-0" | — |
| b5(E) | 36 | #4 | 27'-8" | — |
| b6(E) | 18 | #4 | 29'-7" | — |
| d(E) | 485 | #5 | 6'-4" | ⏏ |
| d1(E) | 485 | #5 | 8'-0" | ⏏ |
| d2(E) | 413 | #5 | 7'-5" | ⏏ |
| d3(E) | 6 | #6 | 8'-7" | ⏏ |
| d4(E) | 4 | #6 | 2'-7" | ⏏ |
| d5(E) | 12 | #6 | 8'-11" | ⏏ |
| d6(E) | 4 | #6 | 4'-10" | ⏏ |
| d7(E) | 4 | #6 | 8'-6" | ⏏ |
| d8(E) | 10 | #5 | 1'-9" | ⏏ |
| e(E) | 8 | #4 | 15'-4" | — |
| e1(E) | 8 | #4 | 13'-2" | — |
| e2(E) | 64 | #4 | 13'-4" | — |
| e4(E) | 120 | #4 | 13'-8" | — |
| e5(E) | 20 | #4 | 29'-11" | — |
| e6(E) | 72 | #4 | 13'-8" | — |
| e7(E) | 24 | #4 | 30'-1" | — |
| e8(E) | 12 | #4 | 14'-8" | — |
| e9(E) | 4 | #4 | 29'-8" | — |
| e10(E) | 6 | #4 | 2'-10" | — |
| Reinforcement Bars, Epoxy Coated | Pound | 30,380 | | |
| Concrete Superstructure | Cu Yd | 59.1 | | |
| Protective Coat | Sq Yd | 583 | | |



LIGHTPOLE MOUNT DETAIL



SECTION AT LIGHT POLE - NORTH CURB



SECTION AT LIGHT POLE - SOUTH PARAPET

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| PLOT SCALE = 0.1667' / in. | DRAWN - SBA | REVISED - |
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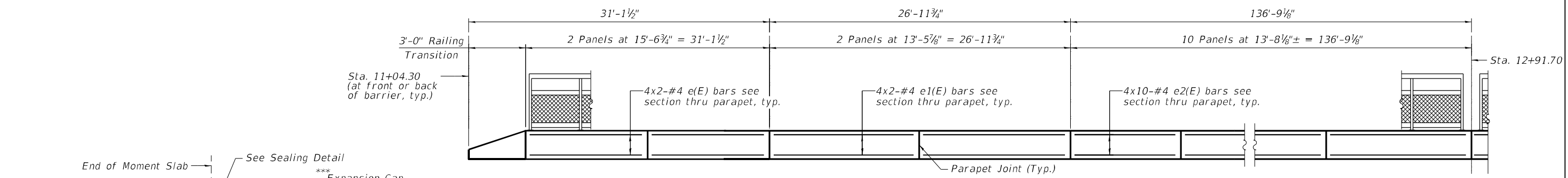
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MOMENT SLAB WEST ABUTMENT II
STRUCTURE NO. 090-0122**

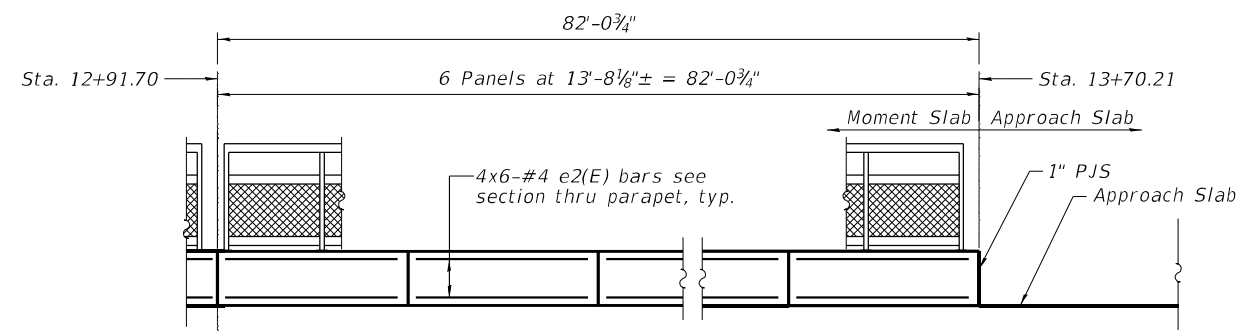
SHEET S-113 OF S-122 SHEETS

| | | | | |
|--------------------|-------------------------------|----------|---------------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY - | TOTAL SHEETS 286 | SHEET NO. 244 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT | |

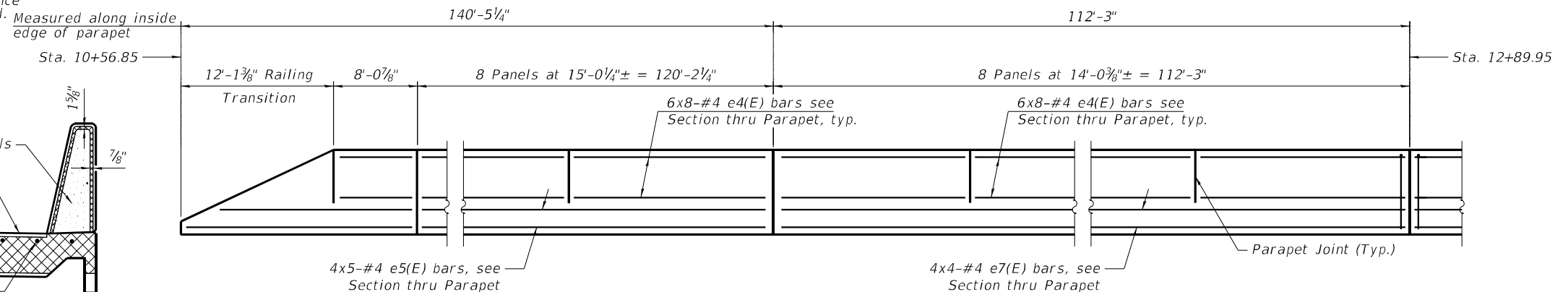
PEORIA / TAZEVELL



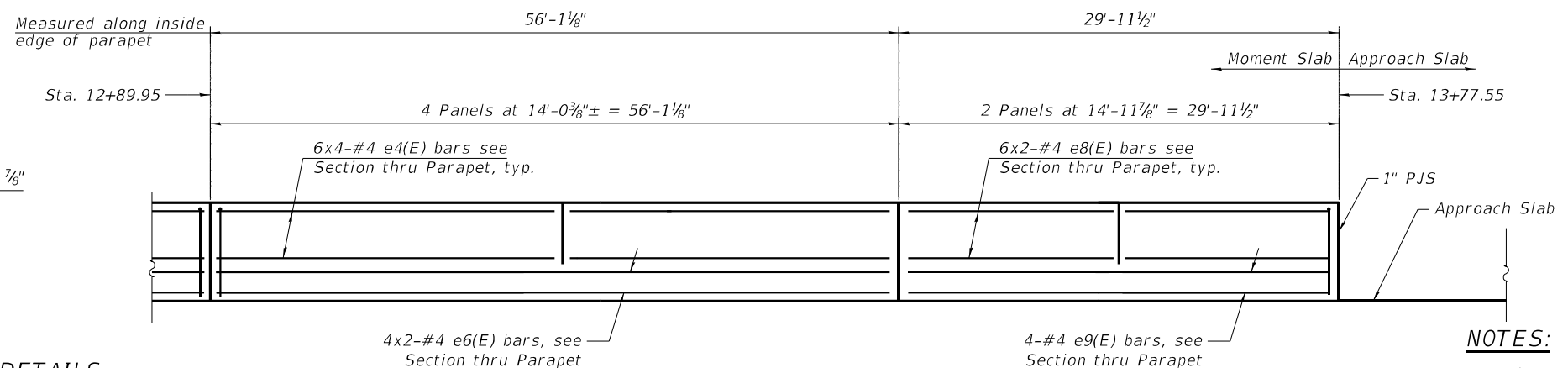
INSIDE ELEVATION OF MULTI-USE PATH STA 11+04.30 TO STA 12+91.70



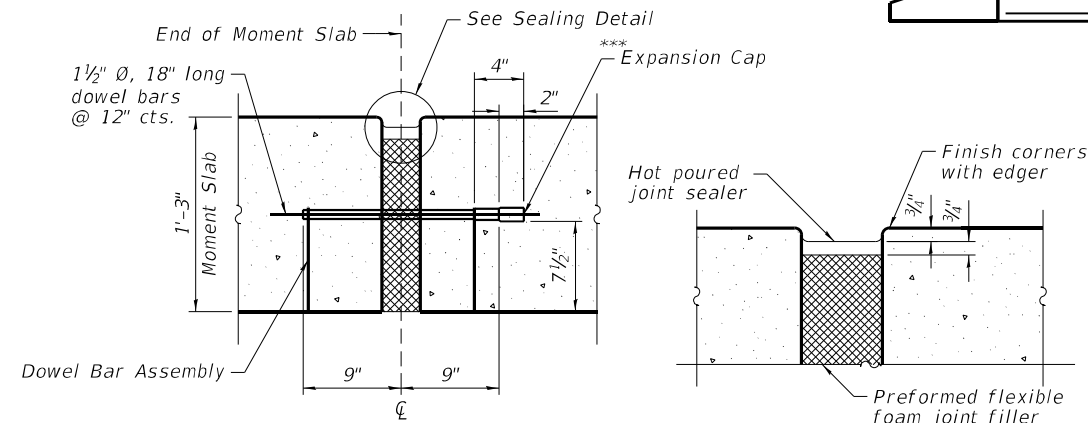
INSIDE ELEVATION OF MULTI-USE PATH STA 12+91.70 TO STA 13+70.21



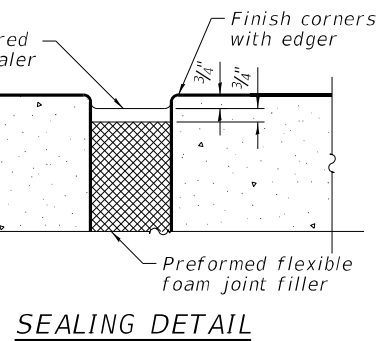
OUTSIDE PARAPET ELEVATION - SOUTH WALL STA 10+56.85 TO STA 12+89.95
(Measured along inside edge of parapet)



OUTSIDE PARAPET ELEVATION - SOUTH WALL STA 12+89.95 TO STA 13+77.55

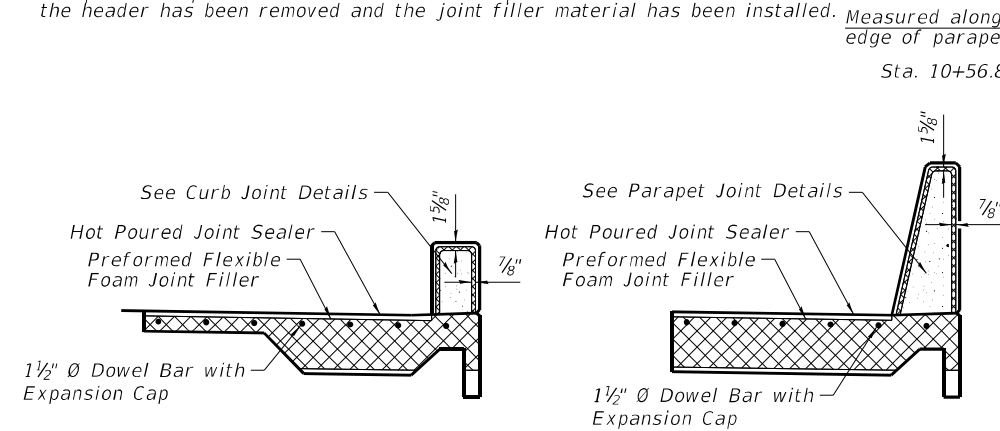


MOMENT SLAB TO MOMENT SLAB
TRANSVERSE EXPANSION JOINT

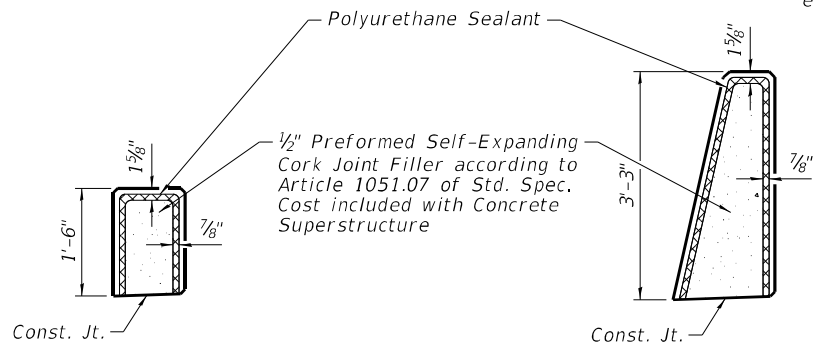


SEALING DETAIL

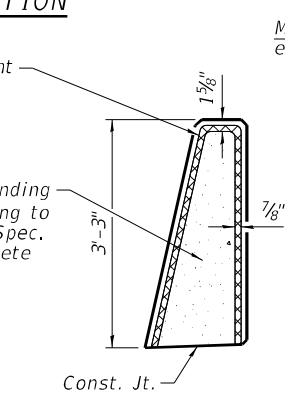
Expansion Joint and Dowel Bars included in the cost of Concrete Superstructure.
*** Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.



TRANSVERSE EXPANSION
JOINT SECTION



CURB JOINT DETAILS



PARAPET JOINT DETAILS

Reinforcement bars shall not pass thru cork joint filler
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec.
and the color shall be gray
Cost included with Concrete Superstructure

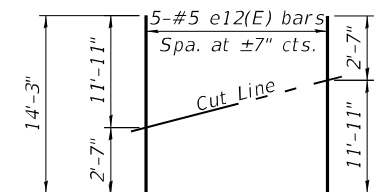
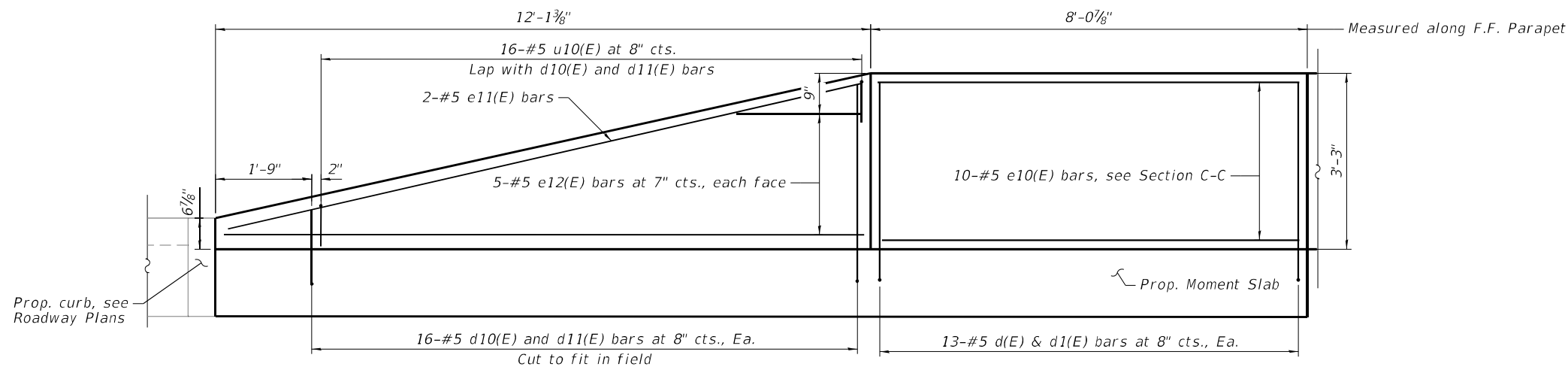
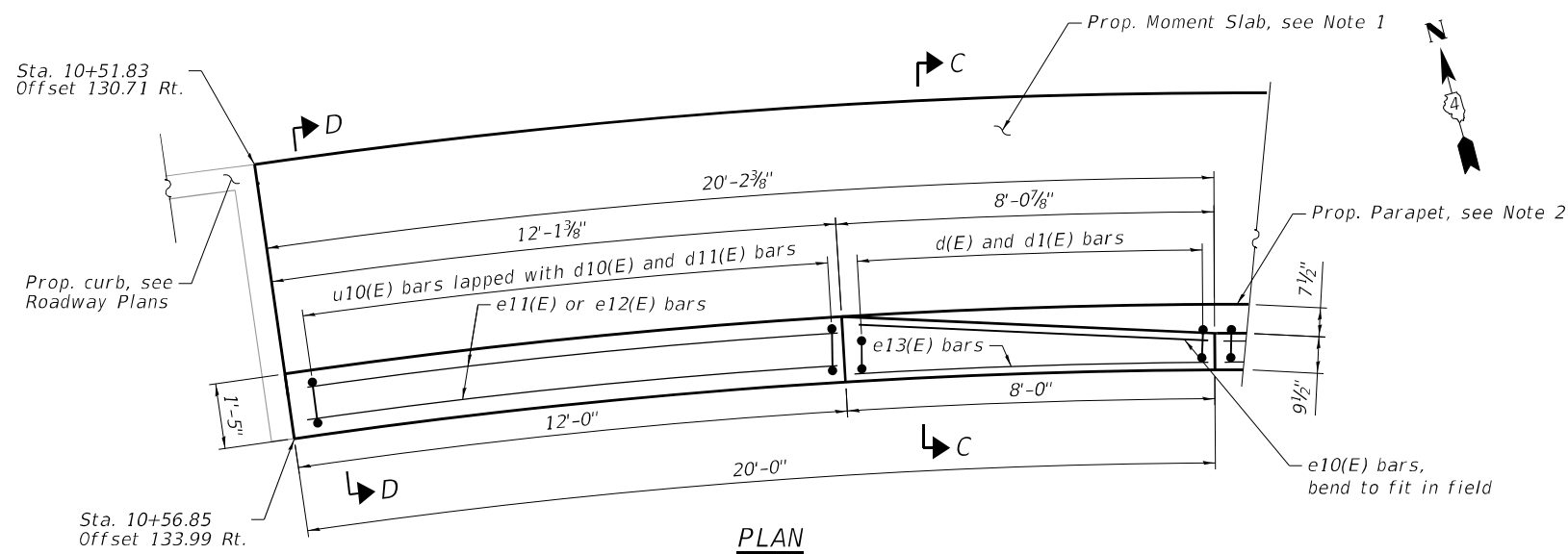
MIN LAP
#4 bar = 2'-5"

NOTES:
See Sheet S-111 for Bill of Materials
and bar bending diagrams.
For Railing Transition details see
Sheet S112A.
Cost of 1" PJS included in Concrete
Superstructure.

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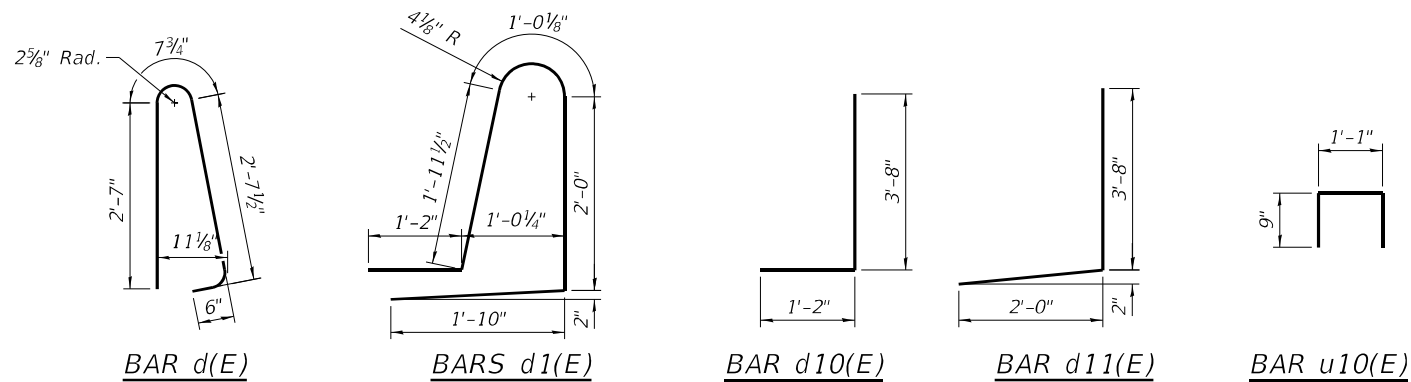
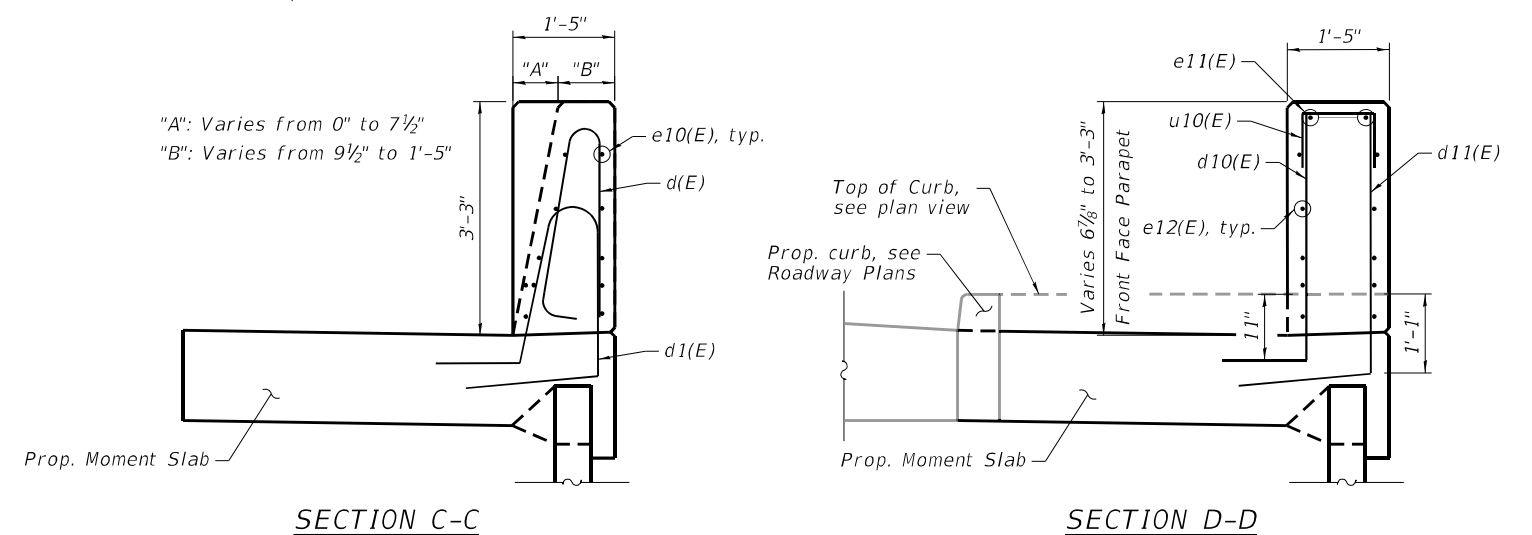
BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|--------|-------|
| d(E) | 13 | #5 | 6'-4" | |
| d1(E) | 13 | #5 | 8'-0" | |
| d10(E) | 16 | #5 | 4'-10" | |
| d11(E) | 16 | #5 | 5'-8" | |
| | | | | |
| e11(E) | 2 | #5 | 12'-2" | |
| e12(E) | 5 | #5 | 14'-3" | |
| e13(E) | 10 | #5 | 7'-8" | |
| | | | | |
| u10(E) | 16 | #5 | 2'-7" | |
| | | | | |
| Reinforcement Bars, Epoxy Coated | | | Pound | 600 |
| Concrete Superstructure | | | Cu Yd | 2.3 |
| Protective Coat | | | Sq Yd | 9 |



FIELD CUTTING DIAGRAM

Order e12(E) bar full length.
Cut as shown and use remainder on opposite side of parapet.



| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 245A |
| CONTRACT NO. | | | 68F38 | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

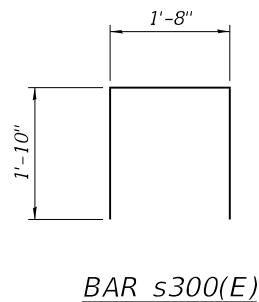
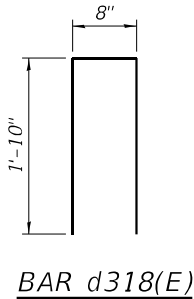
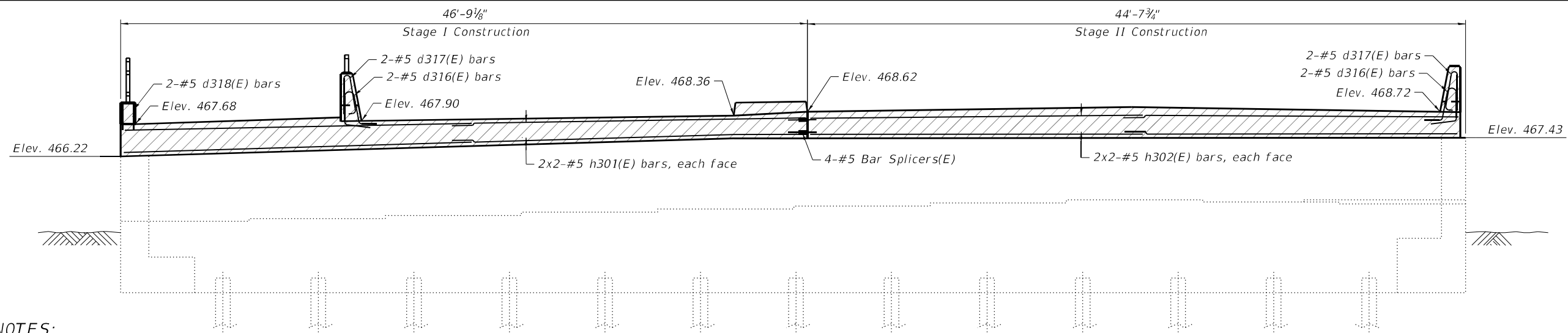
SOUTHWEST PARAPET TRANSITION DETAILS
STRUCTURE NO. 090-0122

SHEET S-114A OF S-122 SHEETS

CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

| | | |
|----------------------------|-----------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| PLOT SCALE = 0.1667' / in. | DRAWN - SBA | REVISED - |
| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
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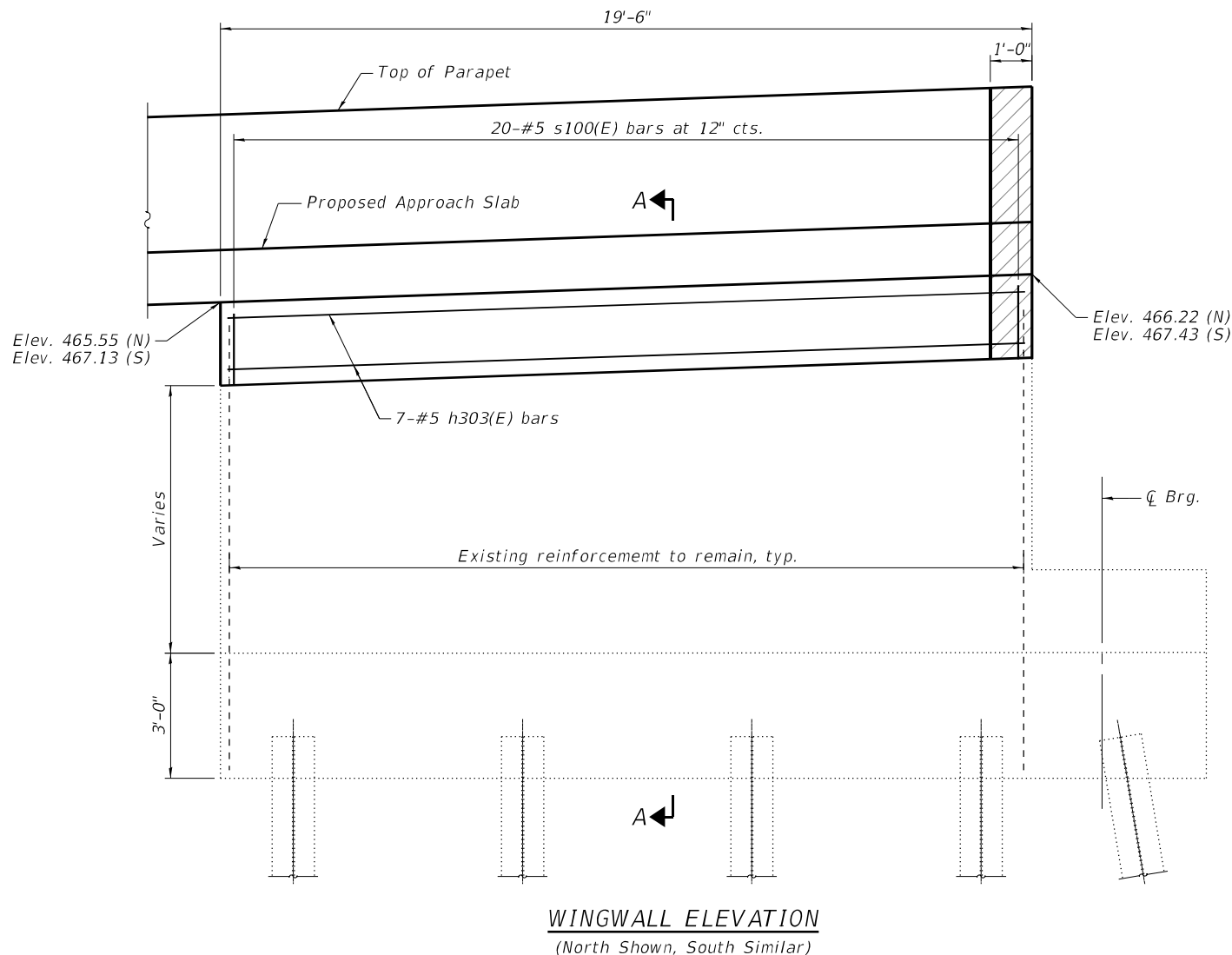
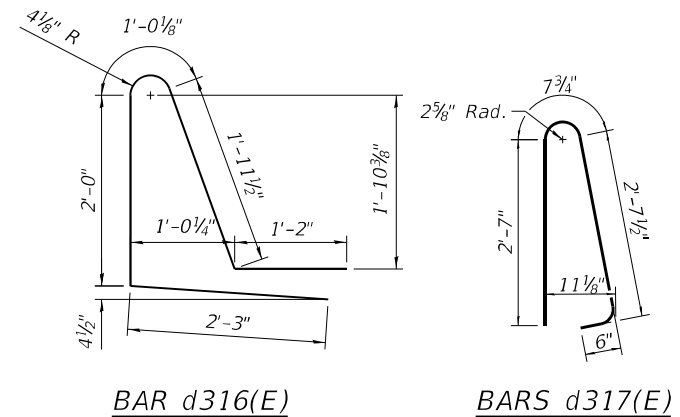
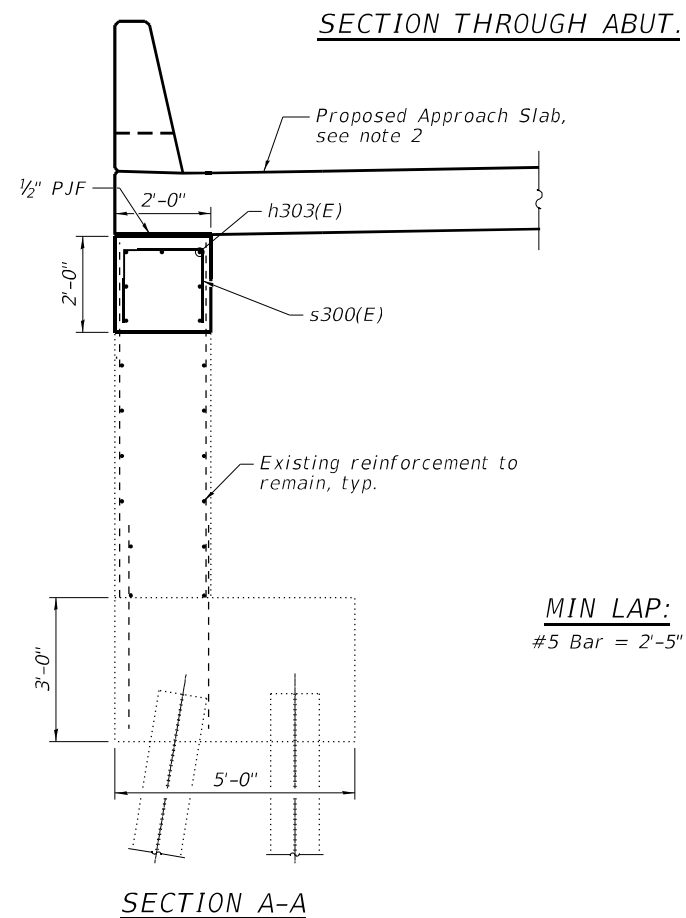
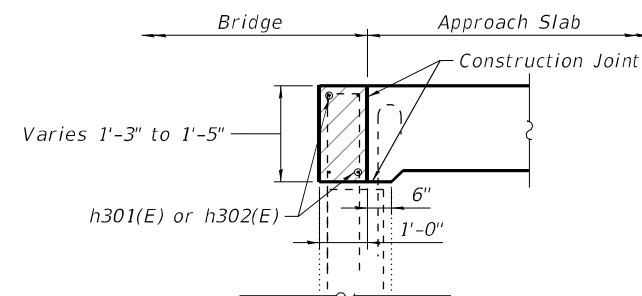
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NOTES:

- Existing reinforcement shall be cleaned and incorporated in the new construction, cost included with Concrete Removal.
- For information of proposed approach slabs, see Sheets S-80 through S-85.
- Contractor to verify elevations at top of abutment wall after exist. blockout removal is complete as shown in Sheets S-12 and S-13.
- For longitudinal reinforcement in the 1'-0" parapet, median, and curb sections, see Approach Slab.
- Concrete sealer to be applied according to General Note 3 on Sheet S-5.
- Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.

EAST ABUTMENT ELEVATION
(Looking East)



MIN LAP:
#5 Bar = 2'-5"

BILL OF MATERIALS

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|-------|--------|-------|
| d316(E) | 4 | #5 | 8'-5" | |
| d317(E) | 4 | #5 | 6'-5" | |
| d318(E) | 2 | #5 | 4'-4" | |
| h301(E) | 8 | #5 | 24'-5" | |
| h302(E) | 8 | #5 | 23'-4" | |
| h303(E) | 14 | #5 | 19'-2" | |
| s300(E) | 40 | #5 | 5'-4" | |
| Reinforcement Bars, Epoxy Coated | | Pound | 980 | |
| Concrete Superstructure | | Cu Yd | 6.8 | |
| Concrete Structures | | Cu Yd | 8.7 | |
| Concrete Sealer | | Sq Ft | 338 | |

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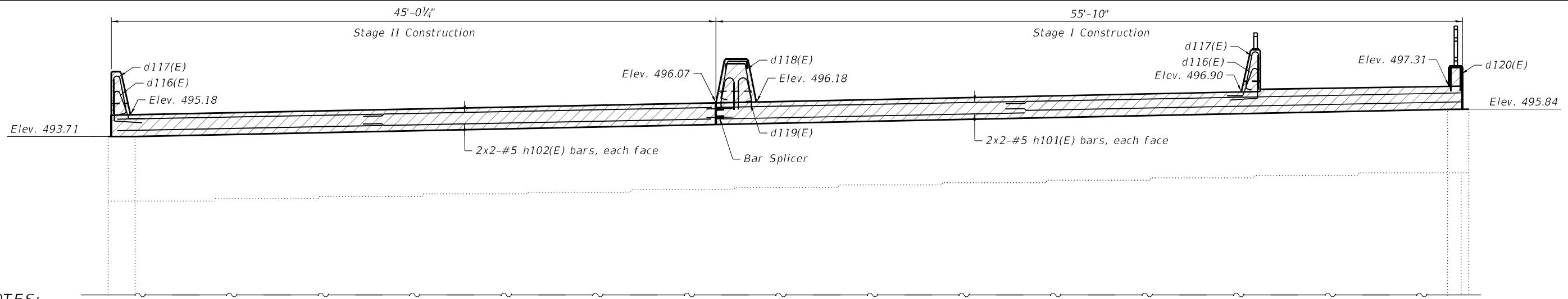
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| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT MODIFICATIONS
STRUCTURE NO. 090-0122

SHEET S-115 OF S-122 SHEETS

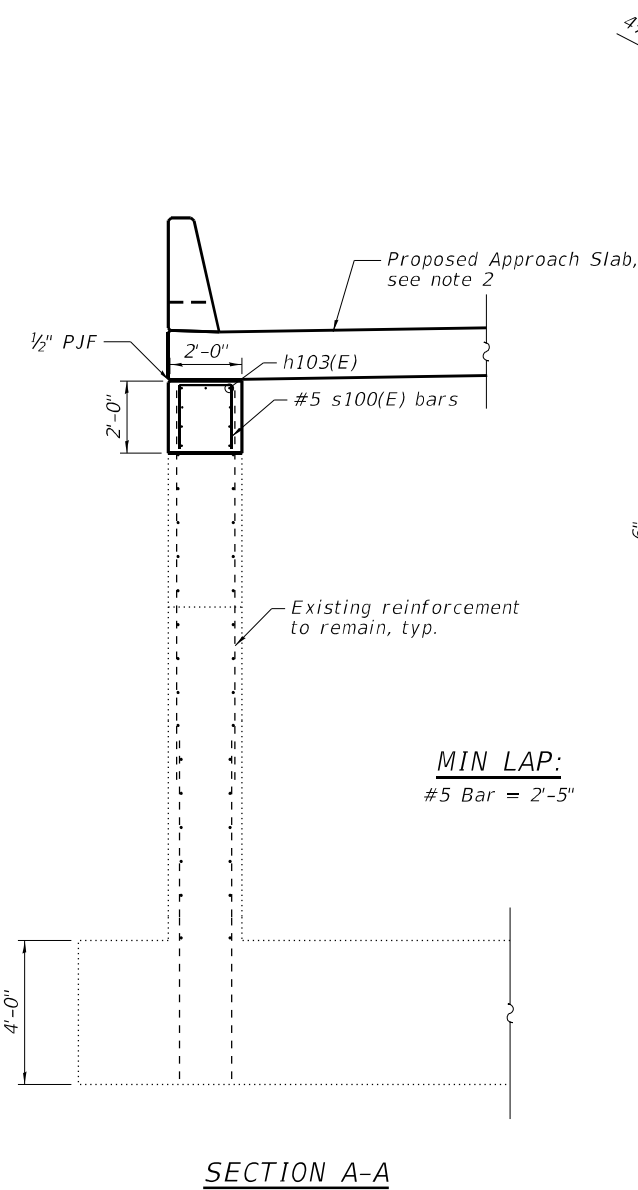
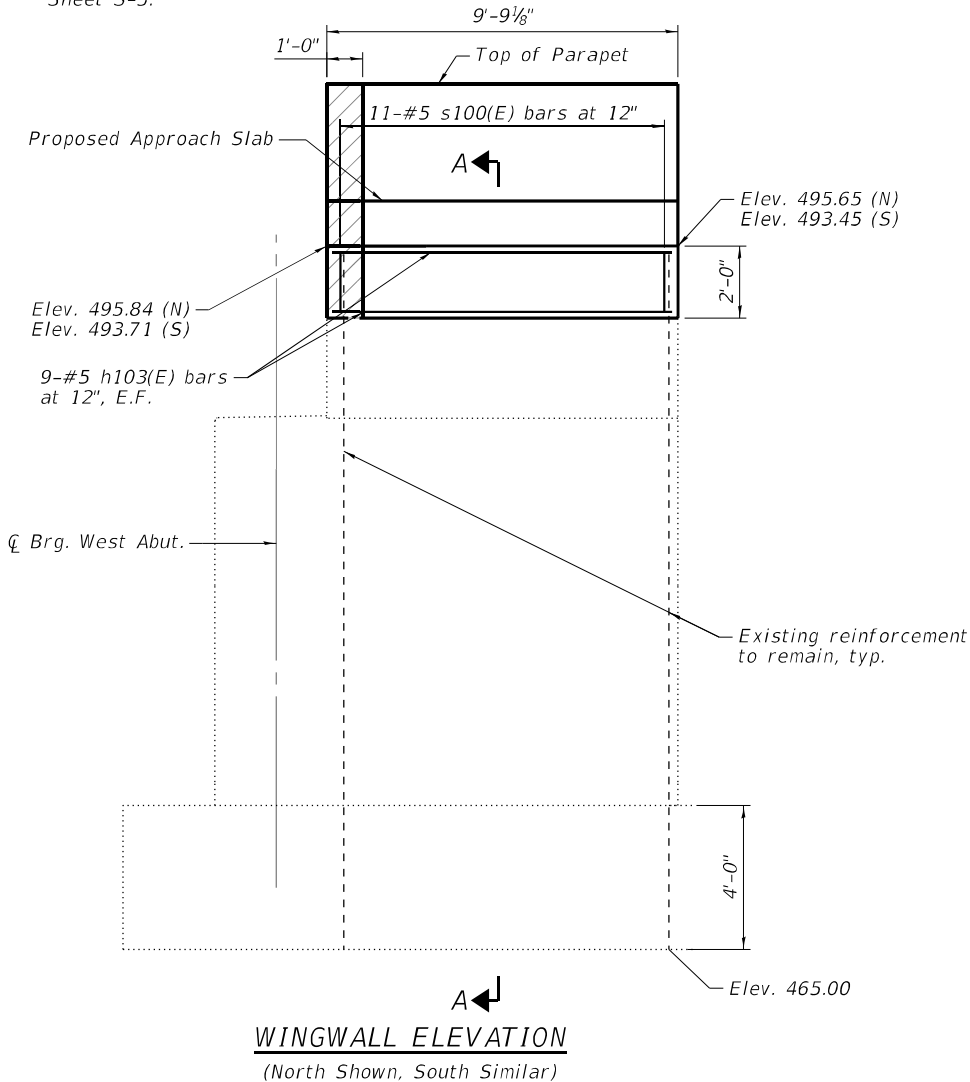
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| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY * | TOTAL SHEETS 286 | SHEET NO. 246 |
| | | | CONTRACT NO. 68F38 | |



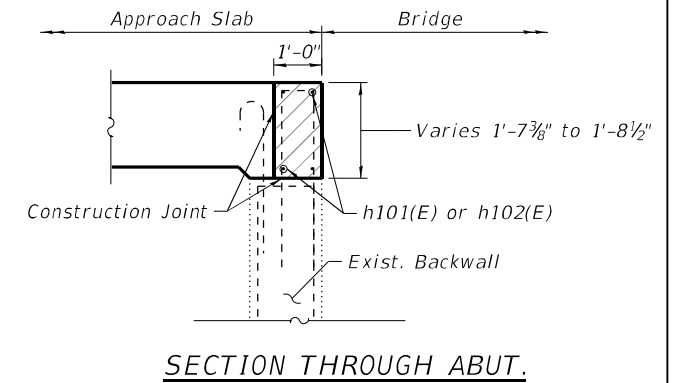
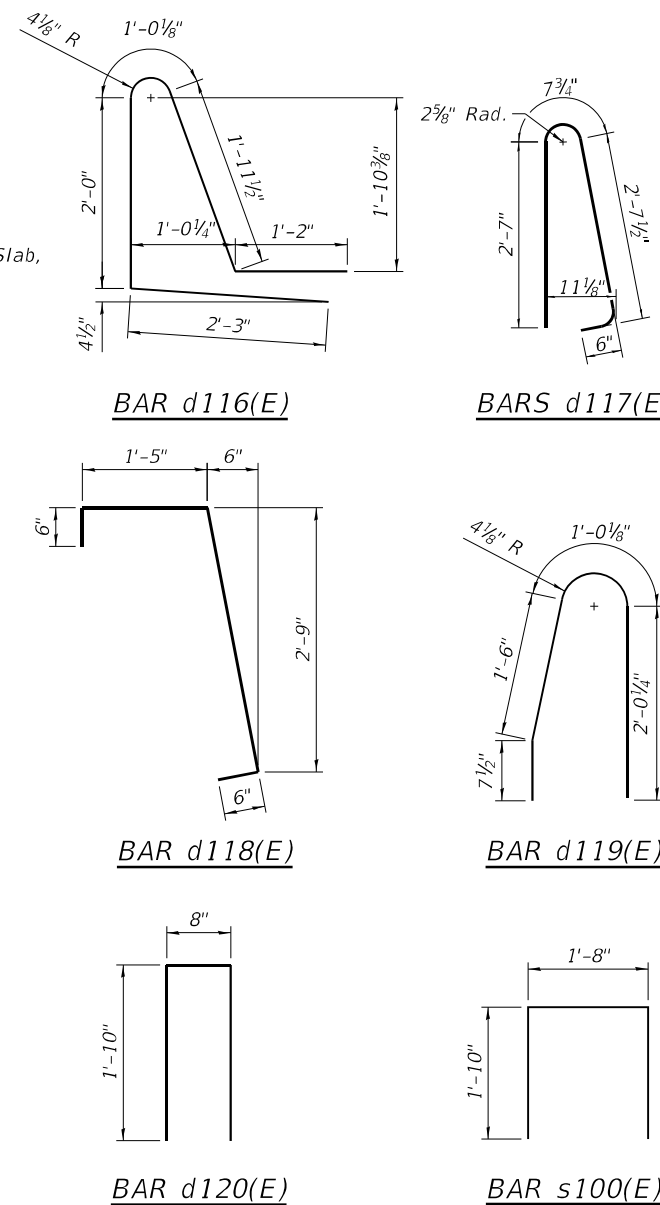
NOTES:

- Existing reinforcement shall be cleaned and incorporated in the new construction, cost included with Concrete Removal.
- For information of proposed approach slabs, see Sheets S-80 through S-85.
- Contractor to verify elevations at top of abutment wall after exist. blockout removal is complete see Sheets S-12 and S-13.
- For longitudinal reinforcement in the 1'-0" parapet, median, and curb sections, see Approach Slab.
- Concrete sealer to be applied according to General Note 3 on Sheet S-5.

WEST ABUTMENT ELEVATION
(Looking West)



MIN LAP:
#5 Bar = 2'-5"



BILL OF MATERIALS

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|--------|-------|
| d116(E) | 4 | #5 | 9'-2" | |
| d117(E) | 4 | #5 | 6'-3" | |
| d118(E) | 4 | #5 | 5'-3" | |
| d119(E) | 4 | #5 | 5'-3" | |
| d120(E) | 2 | #5 | 4'-4" | |
| h101(E) | 8 | #5 | 28'-9" | — |
| h102(E) | 8 | #5 | 23'-6" | — |
| h103(E) | 18 | #5 | 9'-5" | — |
| s100(E) | 22 | #5 | 5'-4" | |
| Reinforcement Bars, Epoxy Coated | | | Pound | 860 |
| Concrete Superstructure | | | Cu Yd | 7.4 |
| Concrete Sealer | | | Sq Ft | 393 |

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| DRAWN - SBA | REVISIONS - | |
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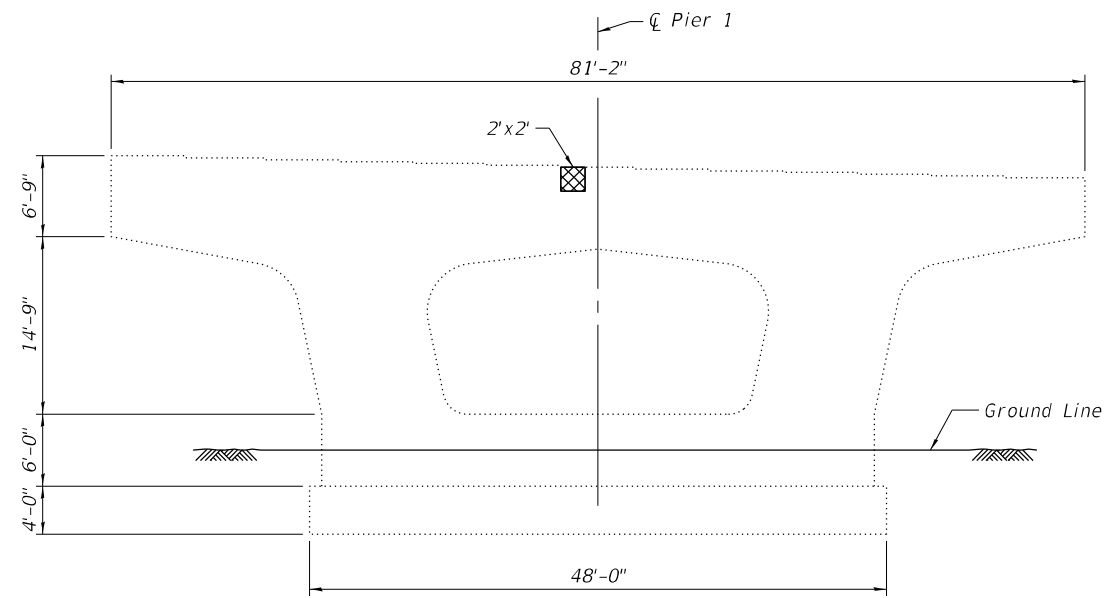
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT MODIFICATIONS
STRUCTURE NO. 090-0122

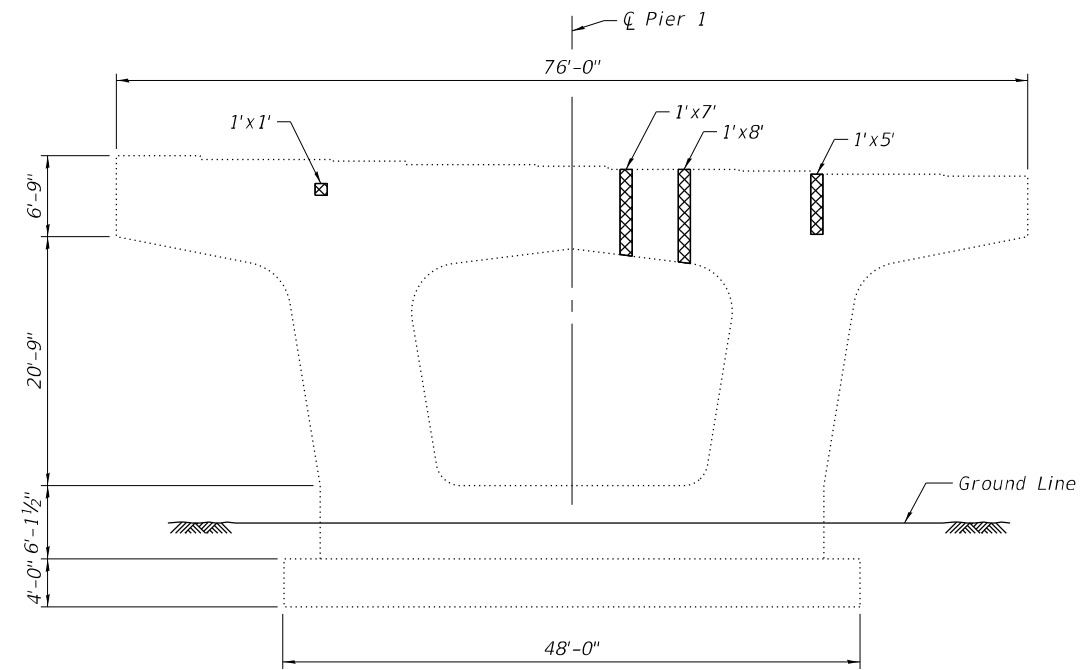
SHEET S-116 OF S-122 SHEETS

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 247 |
| CONTRACT NO. 68F38 | | | | |

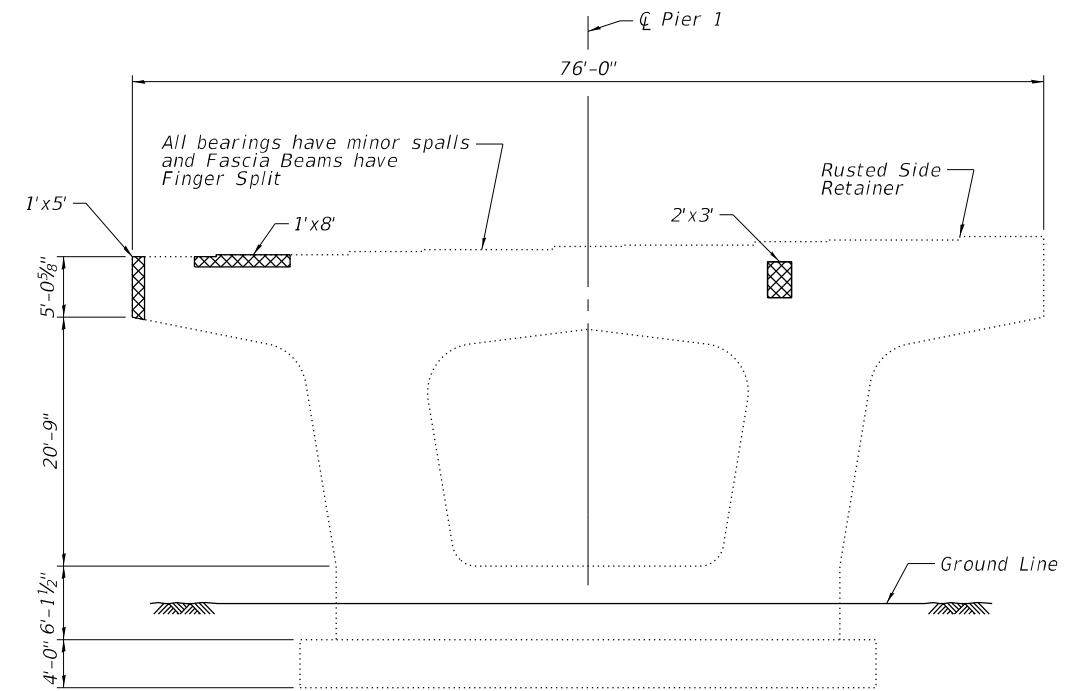
ILLINOIS FED. AID PROJECT PEORIA / TAZEVELL



PIER 1 WEST ELEVATION
(Looking East)



PIER 2 WEST ELEVATION
(Looking East)



PIER 2 EAST ELEVATION
(Looking West)


BILL OF MATERIAL

| Item | Unit | Quantity |
|---|---------|----------|
| Structural Repair of Concrete (Depth Equal to or Less than 5 inches) | Sq. Ft. | 44 |
| Concrete Sealer | Sq. Ft. | 1,167 |

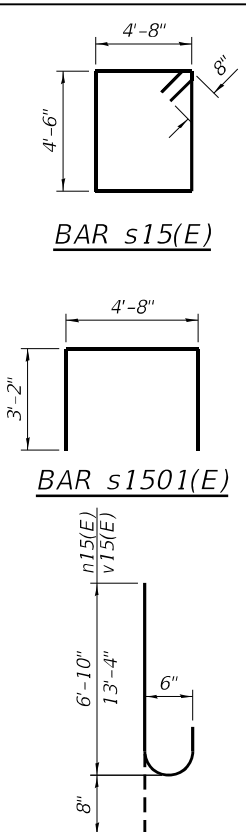
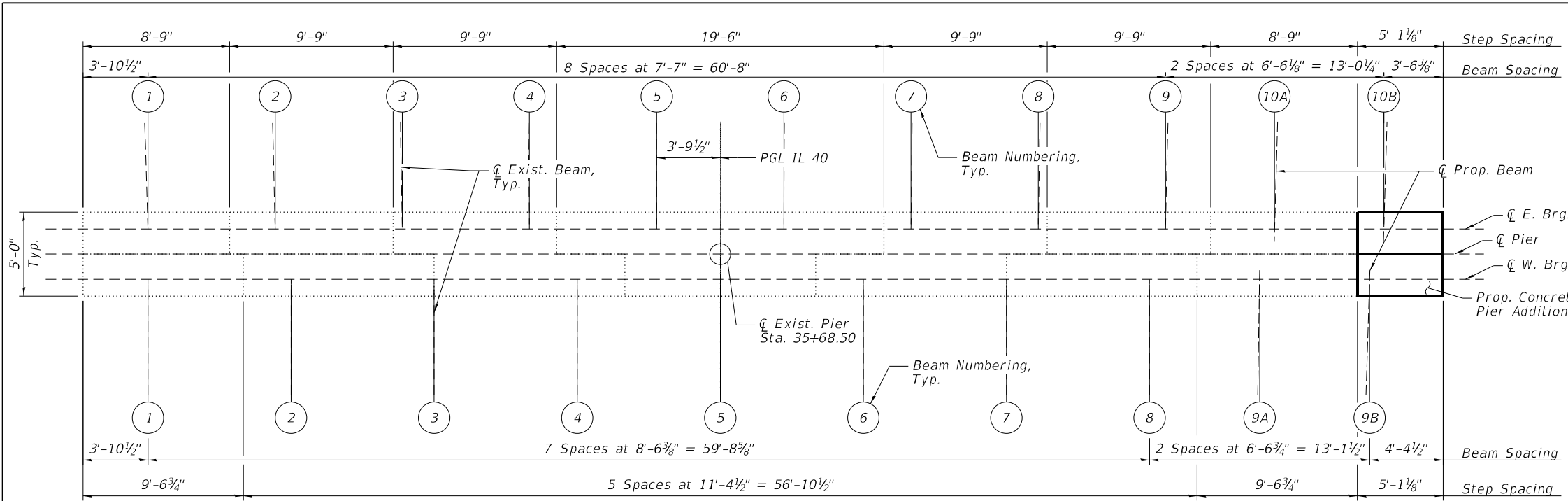
NOTES:

- Repairs of the existing pier shall include but may not be limited to the areas shown. The actual areas to be repaired will be determined by the ENGINEER at the time of construction.
- Concrete sealer to be applied according to General Note 3 on Sheet S-5 to Piers 2, 6, and 9.

LEGEND:

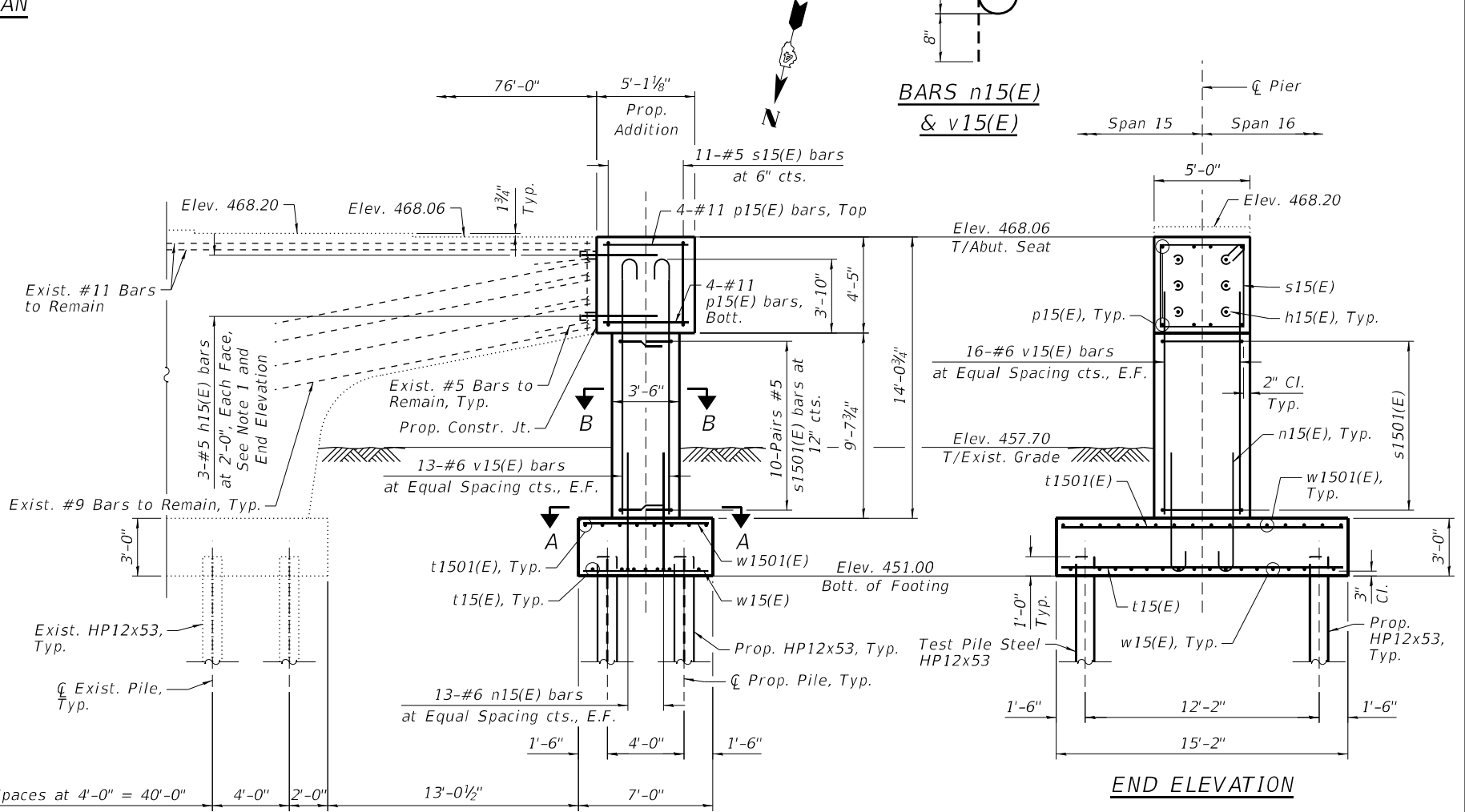
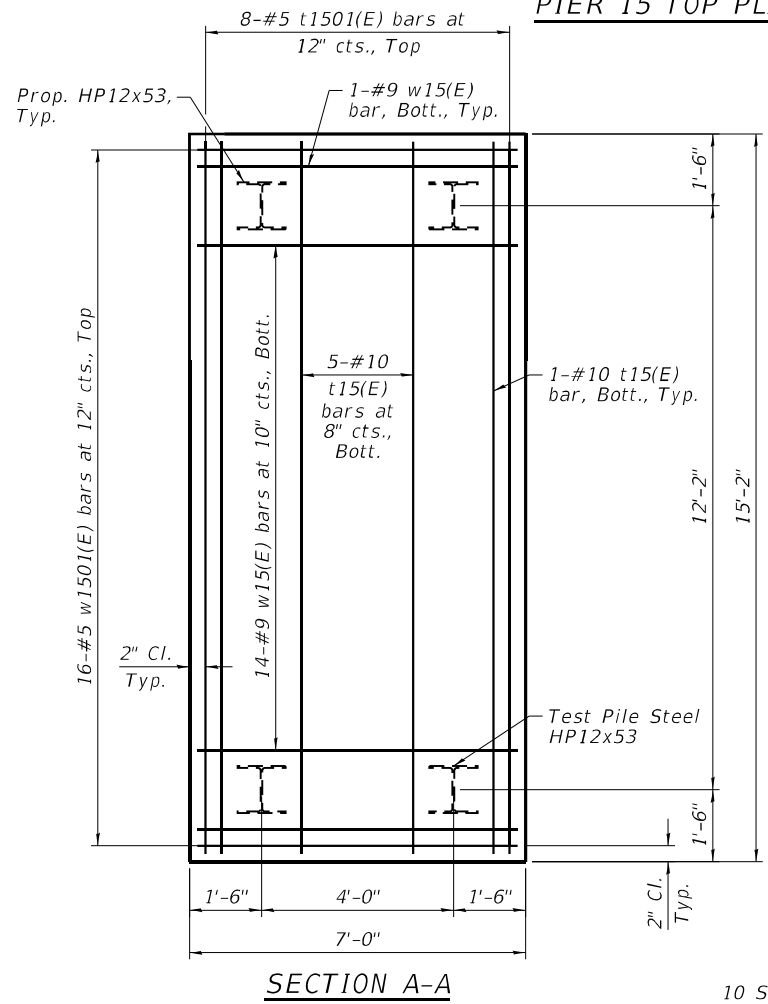
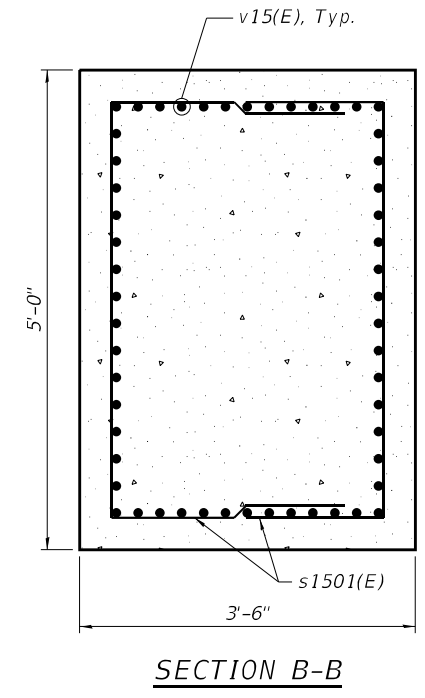
 Structural Repair of Concrete
(Depth Equal to or Less than 5 inches)

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| BILL OF MATERIAL | | | | |
|----------------------------------|-----|-------|---------|-------|
| Bar | No. | Size | Length | Shape |
| h15(E) | 6 | #5 | 4'-0" | — |
| n15(E) | 26 | #6 | 7'-6" | ⌋ |
| p15(E) | 8 | #11 | 4'-9" | — |
| s15(E) | 11 | #5 | 19'-8" | ⌋ |
| s1501(E) | 20 | #5 | 11'-0" | ⌋ |
| t15(E) | 7 | #10 | 14'-10" | — |
| t1501(E) | 8 | #5 | 14'-10" | — |
| v15(E) | 58 | #6 | 14'-0" | ⌋ |
| w15(E) | 16 | #9 | 6'-8" | — |
| w1501(E) | 16 | #5 | 6'-8" | — |
| Structure Excavation | | Cu Yd | 53 | |
| Concrete Structures | | Cu Yd | 22.7 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 3,240 | |
| Furnishing Steel Piles HP12x53 | | Foot | 135 | |
| Driving Piles | | Foot | 135 | |
| Test Pile Steel HP12x53 | | Each | 1 | |
| Pile Shoes | | Each | 4 | |

PIER 15 TOP PLAN



PIER 15 ELEVATION (Looking Upstation)

MINIMUM BAR LAP
 #5 bar = 3'-2"
 #6 bar = 3'-10"

PILE DATA
 Type: HP12x53 (Driven to Refusal)
 Est. Length: 45 feet
 No Req'd: 3
 Test Pile: 1

- NOTES:**
1. Drill and grout h15(E) bars 9" min. in accordance with Article 584 of the standard specification. Cost included with Reinforcement Bars, Epoxy Coated. Drill to miss existing bars.
 2. For pile details see Sheet S-120.

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| | | |
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| USER NAME = Structural | DESIGNED - LM | REVISED - |
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| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

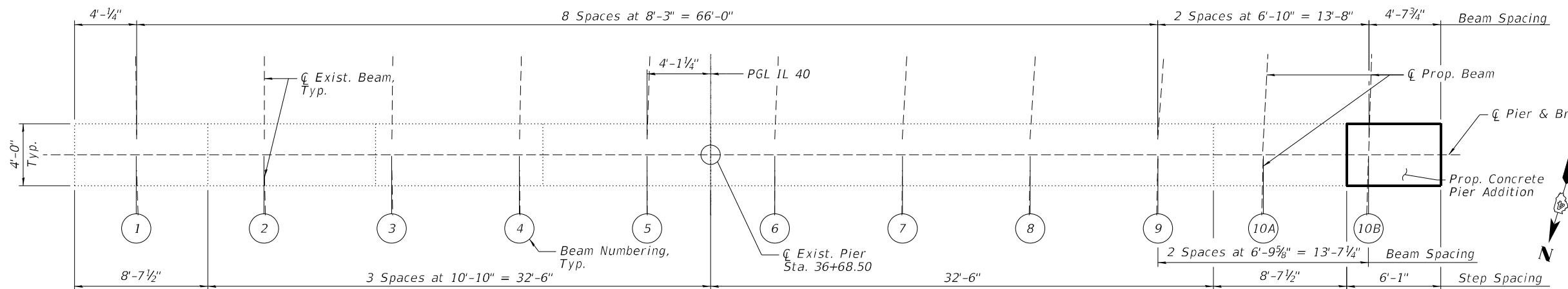
PIER 15 MODIFICATIONS
 STRUCTURE NO. 090-0122

SHEET S-118 OF S-122 SHEETS

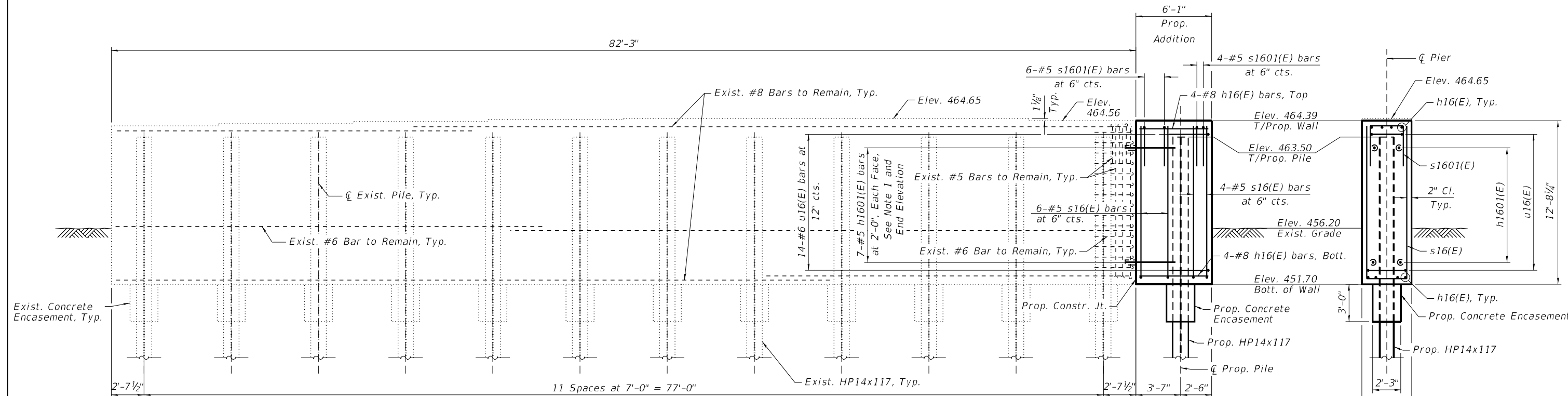
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | | 286 | 249 |
| CONTRACT NO. 68F38 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|-------|--------|-------|
| h16(E) | 8 | #8 | 5'-9" | — |
| h1601(E) | 14 | #5 | 3'-11" | — |
| s16(E) | 10 | #5 | 28'-4" | U |
| s1601(E) | 10 | #5 | 10'-0" | U |
| u16(E) | 14 | #6 | 11'-3" | U |
| Structure Excavation | | Cu Yd | 15 | |
| Concrete Structures | | Cu Yd | 12.2 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 820 | |
| Furnishing Steel Piles HP14x117 | | Foot | 55 | |
| Driving Piles | | Foot | 55 | |
| Pile Shoes | | Each | 1 | |
| Concrete Sealer | | Sq Ft | 354 | |



PIER 16 TOP PLAN



PIER 16 ELEVATION
(Looking Upstation)

END ELEVATION

PILE DATA

Type: HP14x117
(Driven to Refusal)
Est. Length: 55 feet
No Req'd: 1
Test Pile: 1

NOTES:

1. Drill and grout h1601(E) bars 9" min. in accordance with Article 584 of the standard specification. Cost included with Reinforcement Bars, Epoxy Coated. Drill to miss existing bars.
2. For pile details see Sheet S-120.
3. Concrete sealer to be applied according to General Note 3 on Sheet S-5.

MINIMUM BAR LAP

#5 bar = 3'-2"
#6 bar = 3'-10"

| Bar | A | B |
|----------|--------|-------|
| s16(E) | 12'-4" | 3'-8" |
| s1601(E) | 3'-2" | 3'-8" |
| u16(E) | 3'-10" | 3'-7" |

BARS s16(E), s1601(E) & u16(E)

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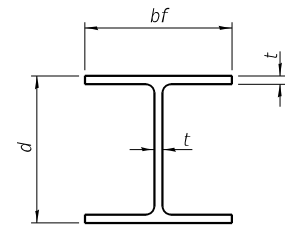
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| PLOT SCALE = 0.1667' / in. | DRAWN - SBA | REVISED - |
| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 16 MODIFICATIONS
STRUCTURE NO. 090-0122**

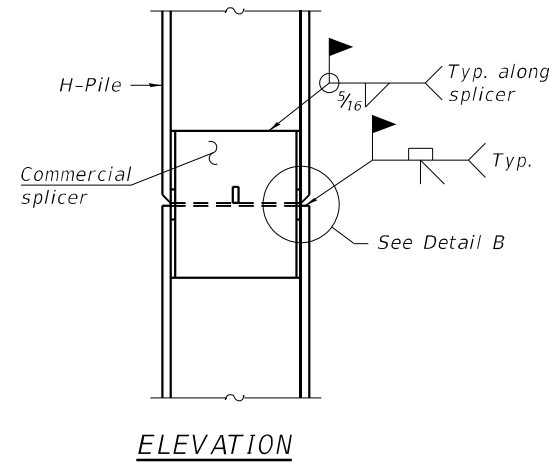
SHEET S-119 OF S-122 SHEETS

| | | | | |
|--------------------|-------------------------------|----------|---------------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY - | TOTAL SHEETS 286 | SHEET NO. 250 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT | |

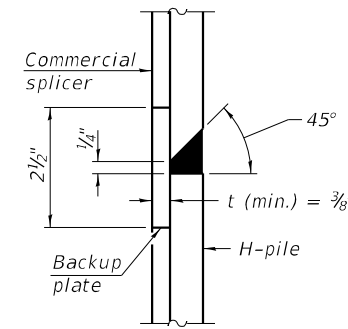


STEEL PILE TABLE

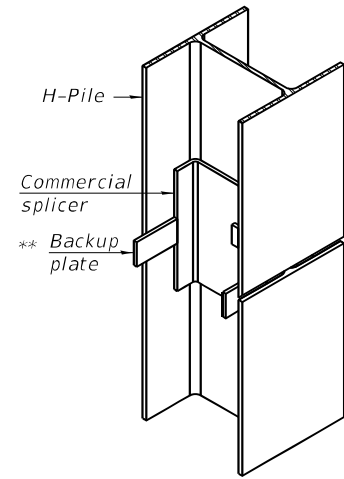
| Designation | Depth d | Flange width bf | Web and Flange thickness t | Encasement diameter A |
|-------------|---------|-----------------|----------------------------|-----------------------|
| HP 14x117 | 14 1/4" | 14 7/8" | 1 3/16" | 30" |
| x102 | 14" | 14 3/4" | 1 1/16" | 30" |
| x89 | 13 7/8" | 14 3/4" | 5/8" | 30" |
| x73 | 13 3/8" | 14 3/8" | 1/2" | 30" |
| HP 12x84 | 12 1/4" | 12 1/4" | 1 1/16" | 24" |
| x74 | 12 1/8" | 12 1/4" | 5/8" | 24" |
| x63 | 12" | 12 1/8" | 1/2" | 24" |
| x53 | 11 3/4" | 12" | 7/16" | 24" |
| HP 10x57 | 10" | 10 1/4" | 9/16" | 24" |
| x42 | 9 3/4" | 10 1/8" | 7/16" | 24" |
| HP 8x36 | 8" | 8 1/8" | 7/16" | 18" |



ELEVATION

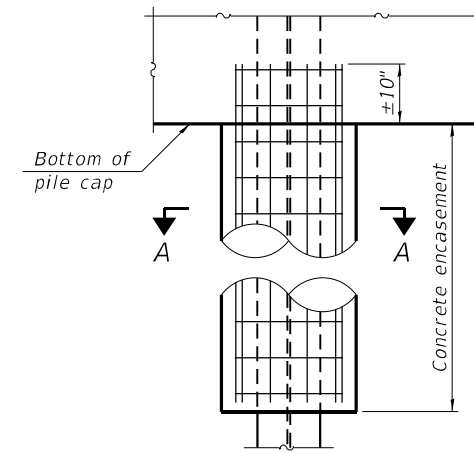


DETAIL "B"

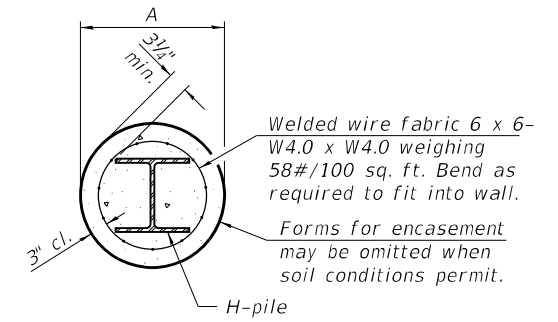


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

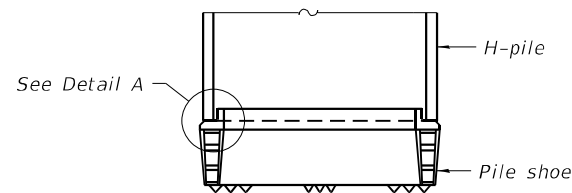


ELEVATION

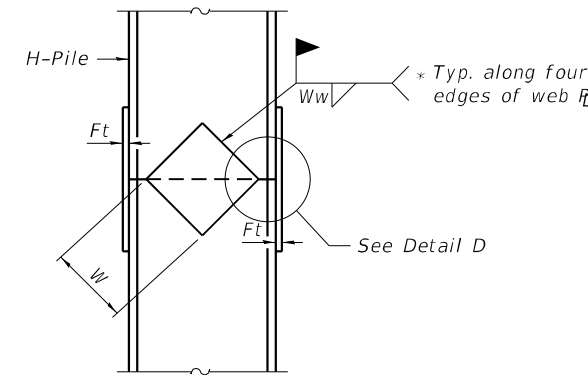


SECTION A-A

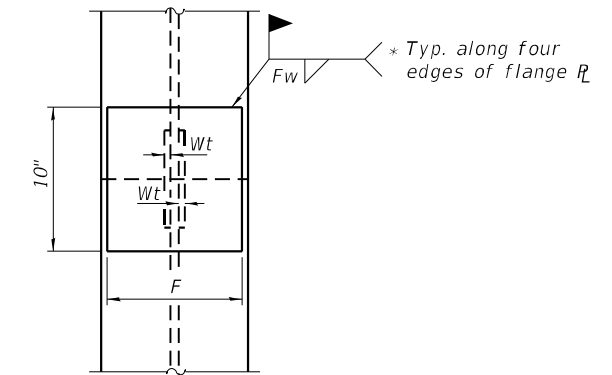
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(when specified)



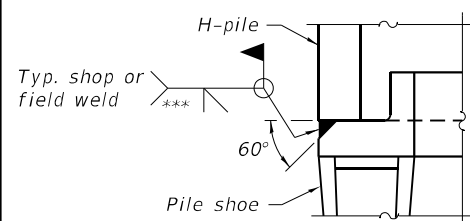
ELEVATION



ELEVATION

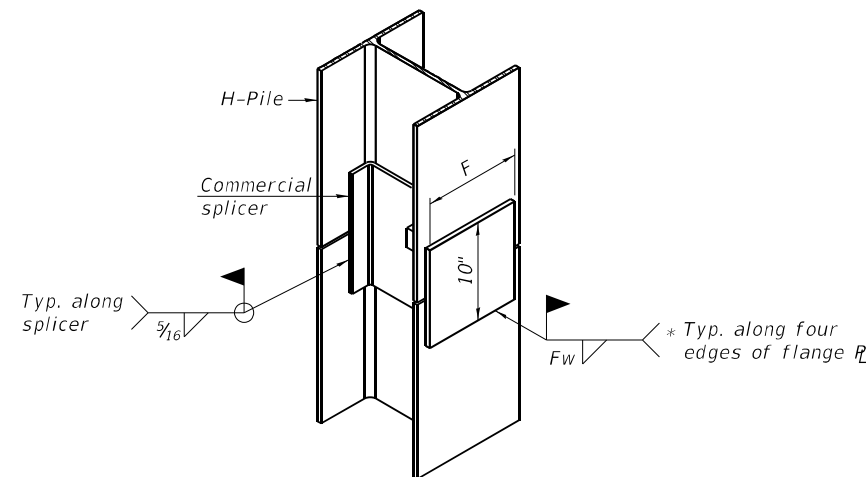


END VIEW



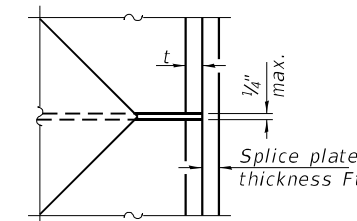
DETAIL A

SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE



DETAIL D

WELDED PLATE FIELD SPLICE

| Designation | F | Ft | Fw | W | Wt | Ww |
|-------------|---------|------|---------|--------|------|------|
| HP 14x117 | 12 1/2" | 1" | 7/8" | 7 3/4" | 5/8" | 1/2" |
| x102 | 12 1/2" | 7/8" | 3/4" | 7 3/4" | 5/8" | 1/2" |
| x89 | 12 1/2" | 3/4" | 1 1/16" | 7 3/4" | 5/8" | 1/2" |
| x73 | 12 1/2" | 5/8" | 9/16" | 7 3/4" | 5/8" | 1/2" |
| HP 12x84 | 10" | 7/8" | 1 1/16" | 6 1/2" | 5/8" | 1/2" |
| x74 | 10" | 7/8" | 1 1/16" | 6 1/2" | 5/8" | 1/2" |
| x63 | 10" | 5/8" | 1/2" | 6 1/2" | 1/2" | 3/8" |
| x53 | 10" | 5/8" | 1/2" | 6 1/2" | 1/2" | 3/8" |
| HP 10x57 | 8" | 3/4" | 9/16" | 5 1/4" | 1/2" | 3/8" |
| x42 | 8" | 5/8" | 9/16" | 5 1/4" | 1/2" | 3/8" |
| HP 8x36 | 7" | 5/8" | 7/16" | 4 1/4" | 1/2" | 3/8" |

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

* Interrupt welds 1/4" from end of web and/or each flange.

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

*** Weld size per pile shoe manufacturer (5/16" min.).

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F-HP 1-1-2020

CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

| USER NAME | DESIGNED | DRAWN | CHECKED | DATE |
|----------------------------|----------|---------|---------|------------|
| = Structural | - LM | - SBA | - BWS | - 10/12/22 |
| PLOT SCALE = 0.1667' / in. | REVISOR | REVISOR | REVISOR | REVISOR |
| PLOT DATE = 10/12/22 | REVISOR | REVISOR | REVISOR | REVISOR |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

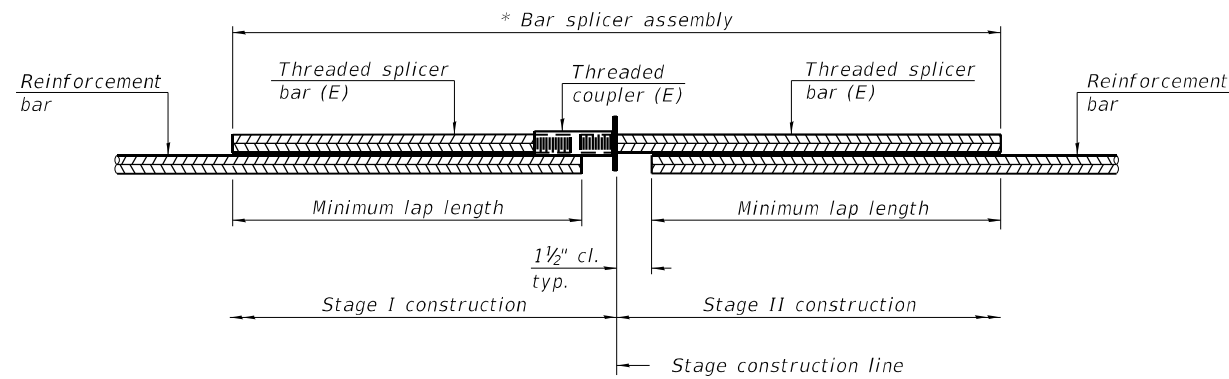
**HP PILE DETAILS
STRUCTURE NO. 090-0122**

SHEET S-120 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 251 |
| CONTRACT NO. | | | 68F38 | |

ILLINOIS FED. AID PROJECT

PEORIA / TAZEWELL

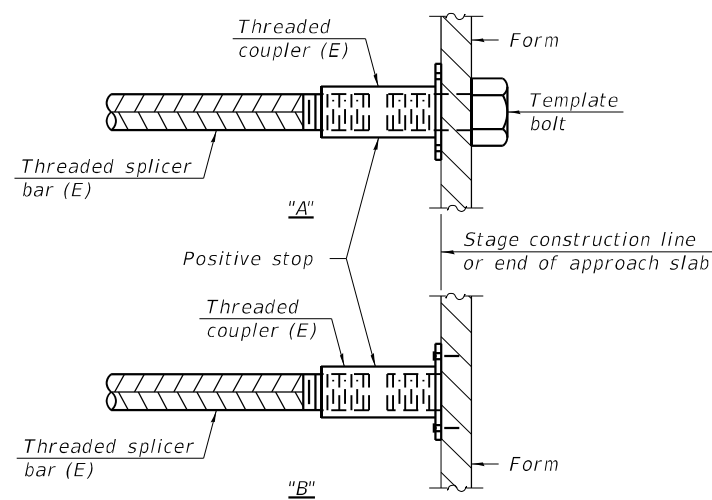


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

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

| Location | Bar size | No. assemblies required | Minimum lap length |
|---------------------|----------|-------------------------|--------------------|
| W Abut | #5 | 10 | 2'-5" |
| W Abut | #7 | 9 | 3'-8" |
| Pier 2 | #5 | 12 | 2'-5" |
| Pier 2 | #7 | 18 | 3'-8" |
| E Abut | #5 | 10 | 2'-5" |
| E Abut | #7 | 9 | 3'-8" |
| Span 6 | #5 | 10 | 2'-5" |
| Span 6 | #7 | 12 | 3'-8" |
| Span 6 (Bott.) | #5 | 149 | 2'-5" |
| Span 7 | #6 | 21 | 2'-11" |
| Span 7 (Bott.) | #5 | 181 | 2'-5" |
| Span 9 | #6 | 21 | 2'-11" |
| Span 9 (Bott.) | #5 | 181 | 2'-5" |
| Span 10 | #5 | 10 | 2'-5" |
| Span 10 | #7 | 12 | 3'-8" |
| Span 10 (Bott.) | #5 | 149 | 2'-5" |
| Span 15 | #5 | 10 | 2'-5" |
| Span 15 | #7 | 12 | 3'-8" |
| Span 15 (Bott.) | #5 | 149 | 2'-5" |
| Span 16 | #5 | 10 | 2'-5" |
| Span 16 | #7 | 12 | 3'-8" |
| Span 16 (Bott.) | #5 | 149 | 2'-5" |
| W. Appr. Slab Top | #5 | 46 | 3'-4" |
| W. Appr. Slab Bott. | #8 | 60 | 4'-9" |
| W. Appr. Ftg. (T&B) | #5 | 40 | 3'-4" |
| E. Appr. Slab Top | #5 | 46 | 3'-4" |
| E. Appr. Slab Bott. | #8 | 60 | 4'-9" |
| E. Appr. Ftg. (T&B) | #5 | 40 | 3'-4" |

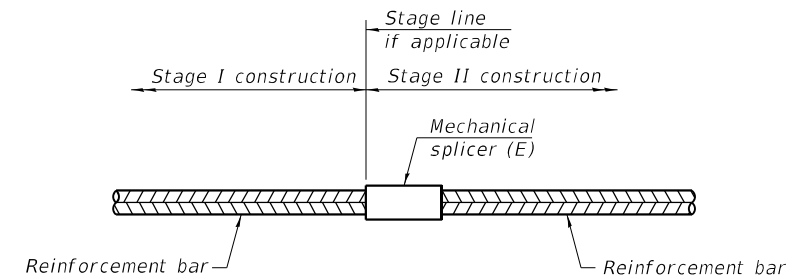


INSTALLATION AND SETTING METHODS

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

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

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required |
|----------|----------|-------------------------|
| | | |
| | | |
| | | |
| | | |

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

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

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1

1-1-2020



| | | |
|----------------------------|-----------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| PLOT SCALE = 0.1667' / in. | DRAWN - SBA | REVISED - |
| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

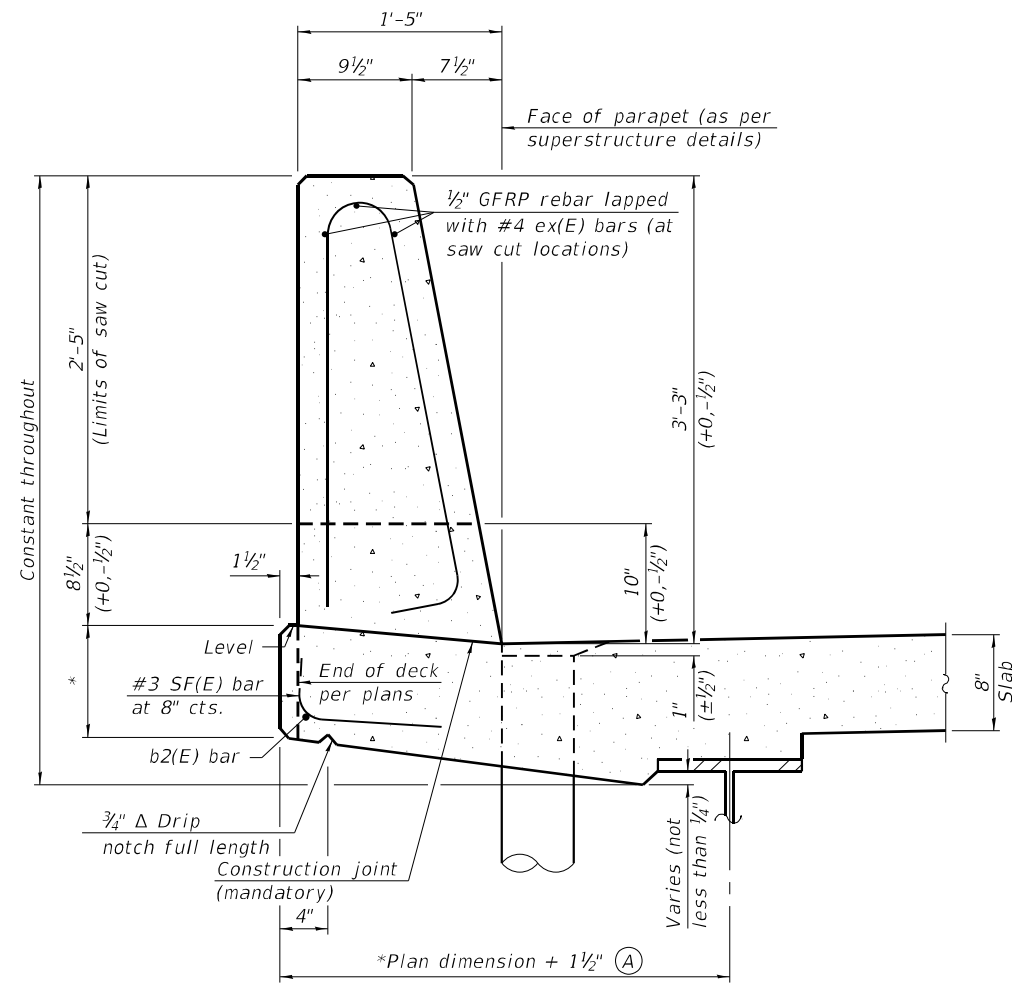
**BAR SPLICERS ASSEMBLY DETAILS
STRUCTURE NO. 090-0122**

SHEET S-121 OF S-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 252 |
| CONTRACT NO. | | | 68F38 | |

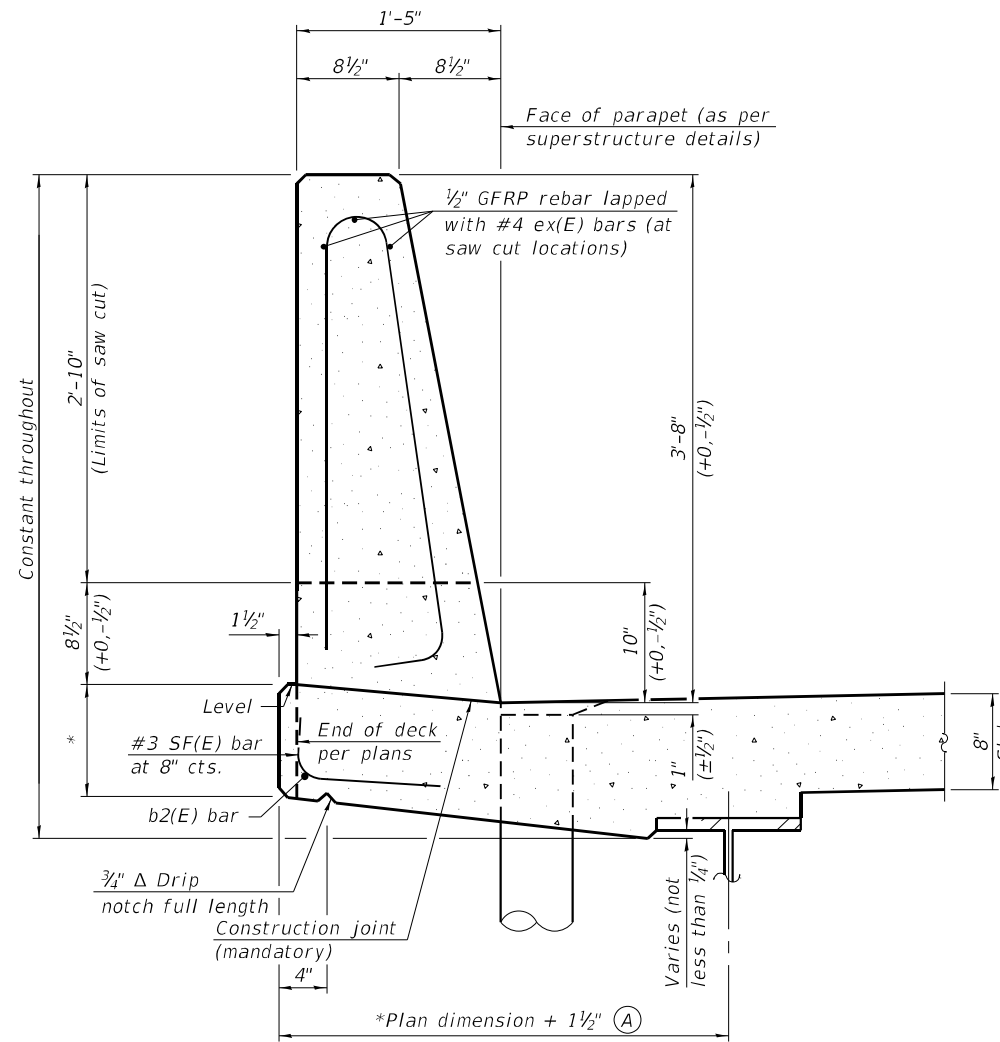
ILLINOIS FED. AID PROJECT

PEORIA / TAZEVELL



**39" CONSTANT-SLOPE
PARAPET SECTION**

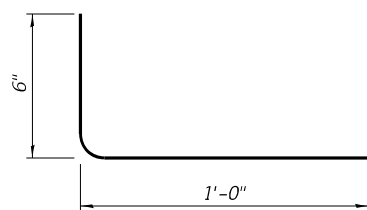
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



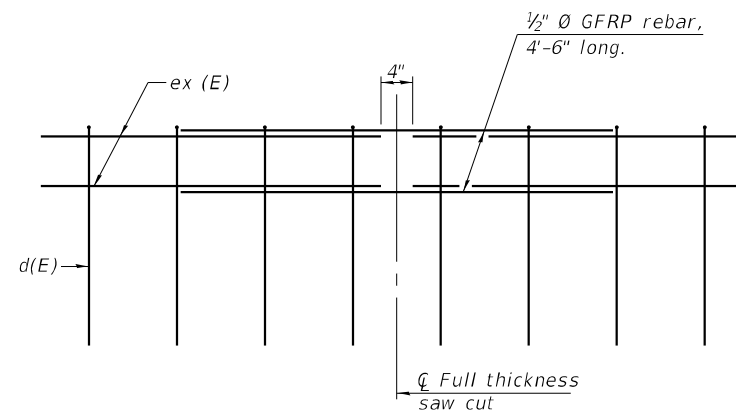
**44" CONSTANT-SLOPE
PARAPET SECTION**

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

*See Superstructure Details.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL

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

Notes:
 All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.
 Place full depth aluminum sheets as shown on superstructure details.
 Replace all cork joint filler locations with a full thickness saw cut.
 Steel superstructure shown. Other superstructure types similar.

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SFP 39-44

1-1-2020



| | | |
|----------------------------|-----------------|-----------|
| USER NAME = Structural | DESIGNED - LM | REVISED - |
| PLOT SCALE = 0.1667' / in. | DRAWN - SBA | REVISED - |
| PLOT DATE = 10/12/22 | CHECKED - BWS | REVISED - |
| | DATE - 10/12/22 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 090-0122**

SHEET 5-122 OF 5-122 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 253 |
| CONTRACT NO. | | | 68F38 | |

ILLINOIS FED. AID PROJECT

* PEORIA / TAZEVELL

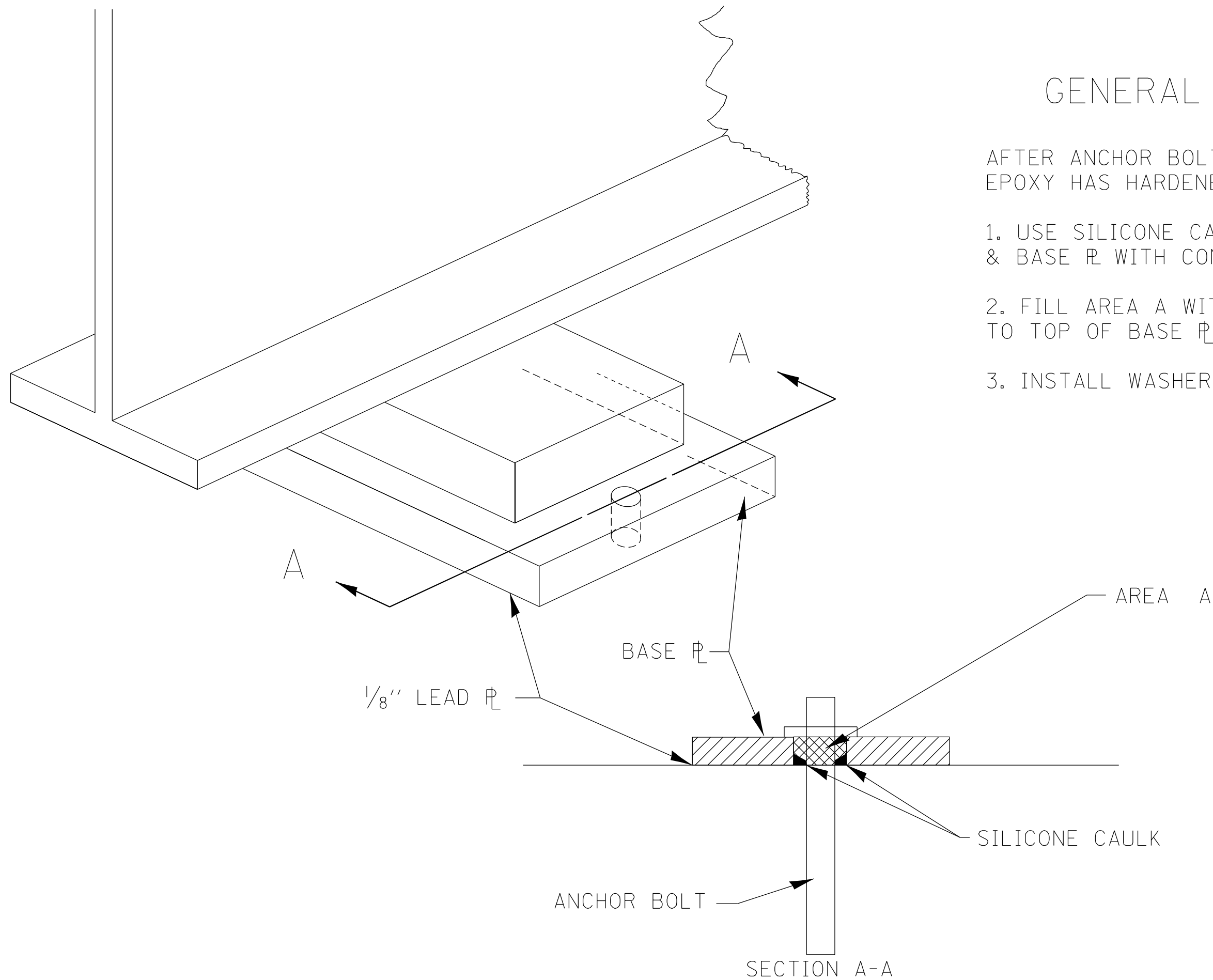
GENERAL NOTES

AFTER ANCHOR BOLT IS INSTALLED & EPOXY HAS HARDENED

1. USE SILICONE CAULK TO SEAL LEAD ϕ & BASE ϕ WITH CONCRETE

2. FILL AREA A WITH 2 PART EPOXY, TO TOP OF BASE ϕ

3. INSTALL WASHER & NUT



All dimensions are in inches (millimeters) unless otherwise noted.

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

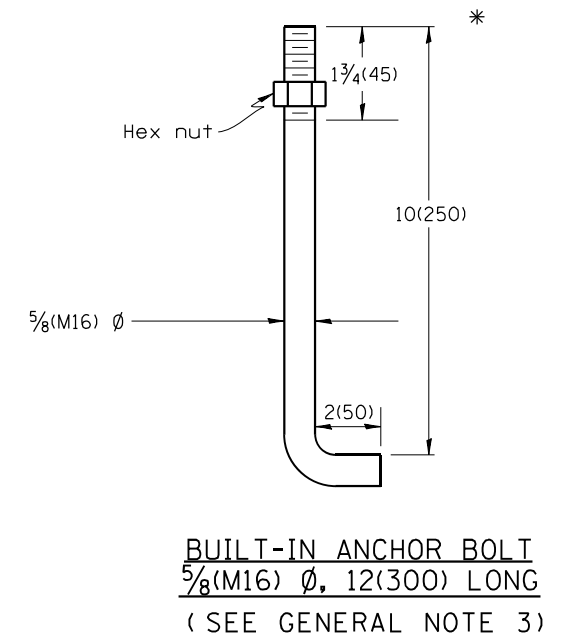
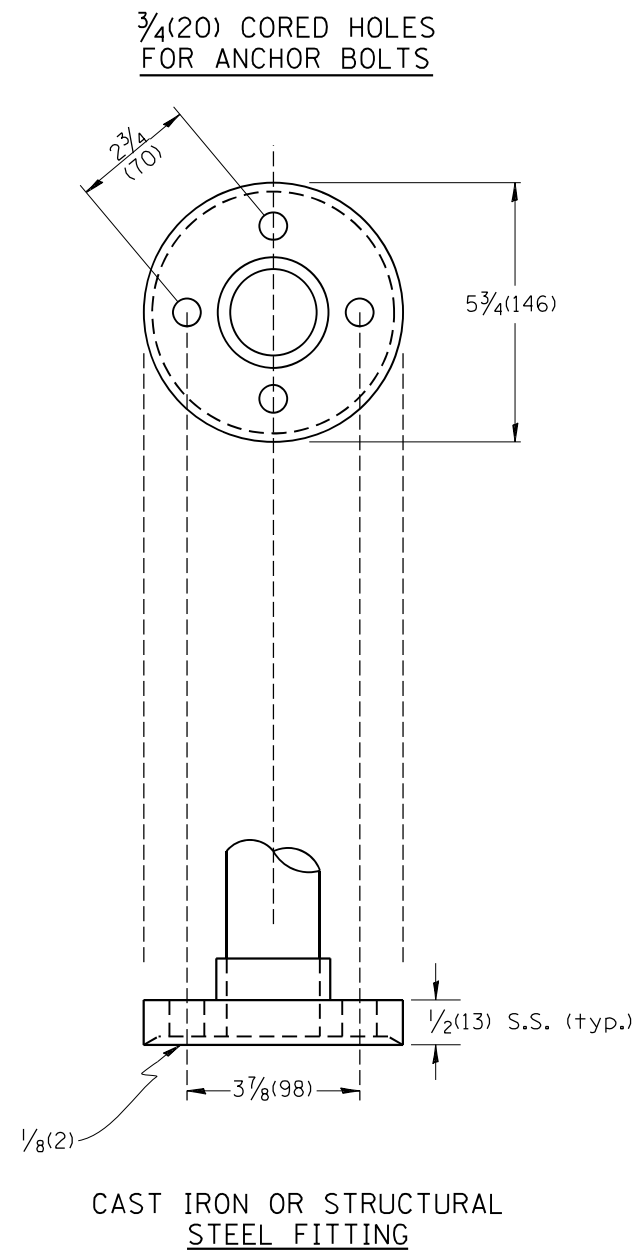
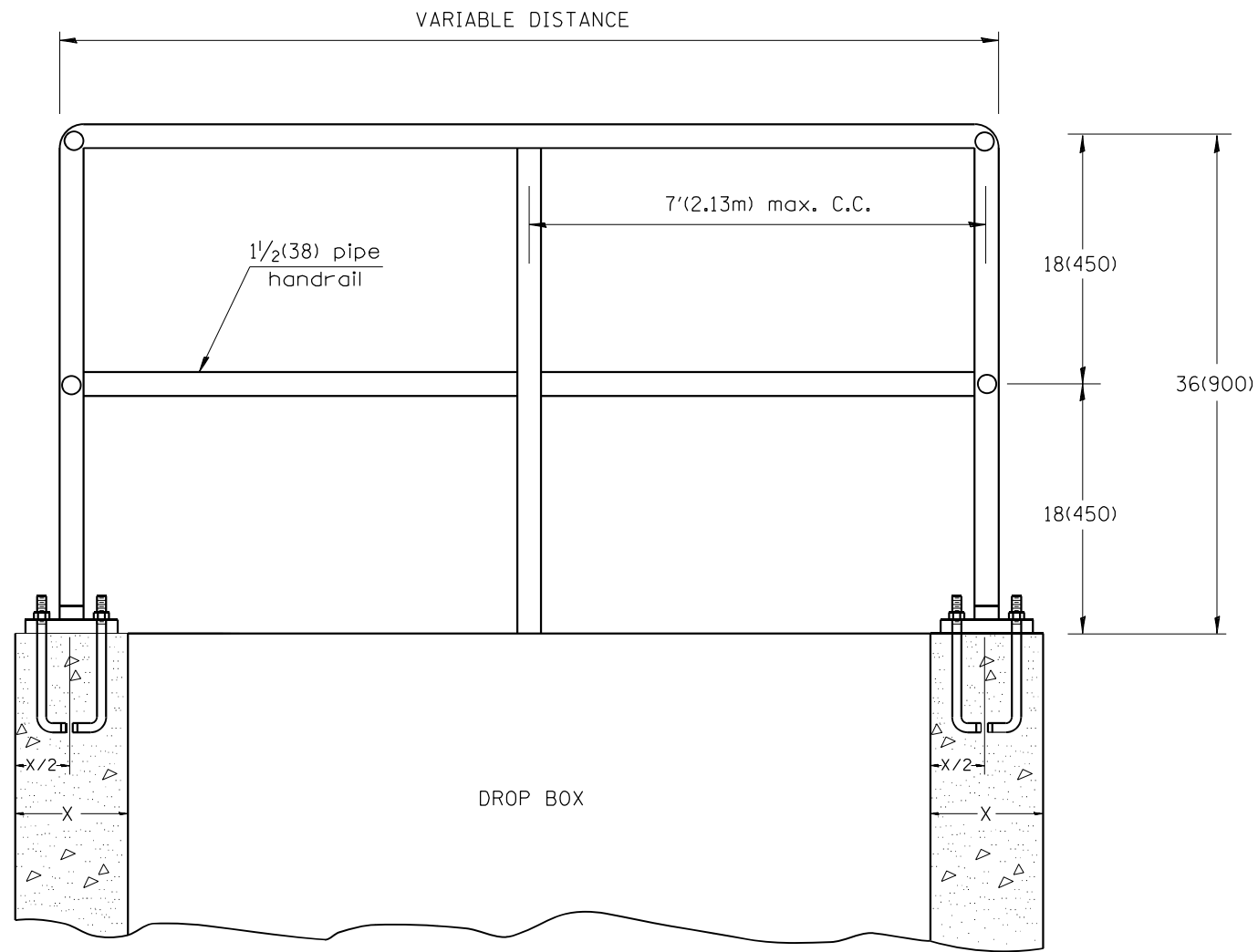
BEARING PLATE DETAIL

NOT TO SCALE

CADD STD. 505001-D4

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------------------|--------|--------------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 254 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68F38 | |

PEORIA / TAZEVELL



GENERAL NOTES:

- Article 509.04 of the Standard Specifications shall apply.
- Connection of railing to posts shall be made by continuous welding or with using standard pipe fitting.
- An equivalent epoxy anchor stud can be used in place of anchor shown. Anchor bolt holes shall be 3/4(20) in diameter and 5(125) deep. They shall be predrilled with an electric hammer drill to a depth of 4(100) prior to use of a pneumatic drill for the remaining 4(100). A two component encapsulated epoxy such as "Parabond" or an equivalent shall be used. Installation shall be according to Manufacturer's recommendations.
- The pipe handrail shall be galvanized by the hot dip process.

All dimensions are in inches (millimeters) unless otherwise noted.

| | | |
|----------|---|------|
| 01-01-97 | RENUM. B-11.01, METRICS, NEW REVISION BOX, REVISED TITLE BOX, REVISED NOTES | T.P. |
| 10-16-06 | REVISED TO 2007 SPEC. | M.A. |

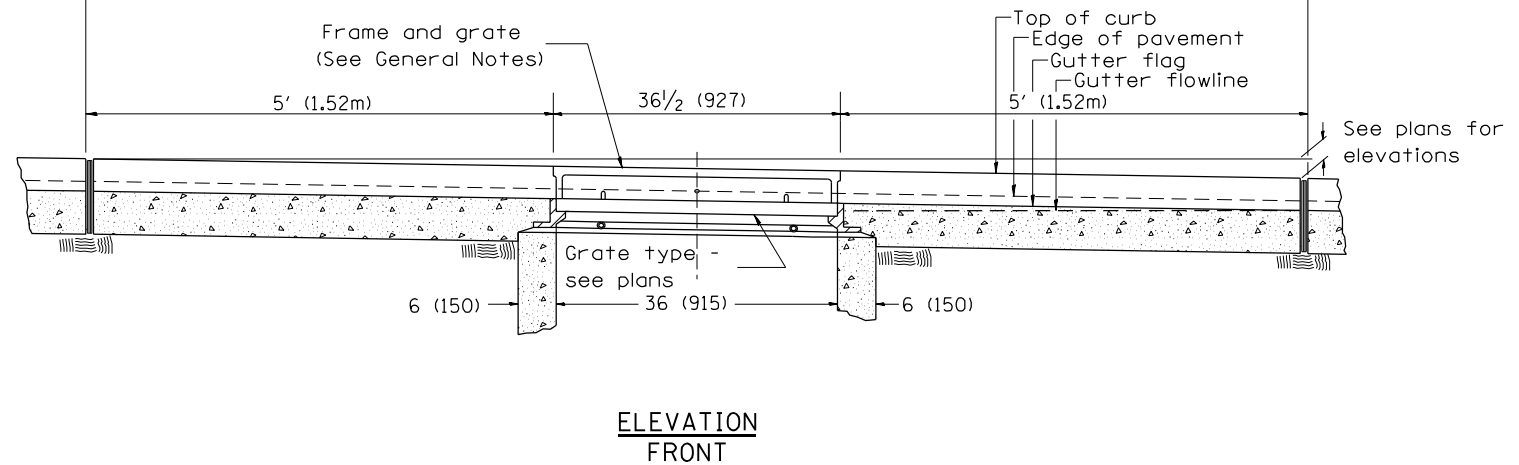
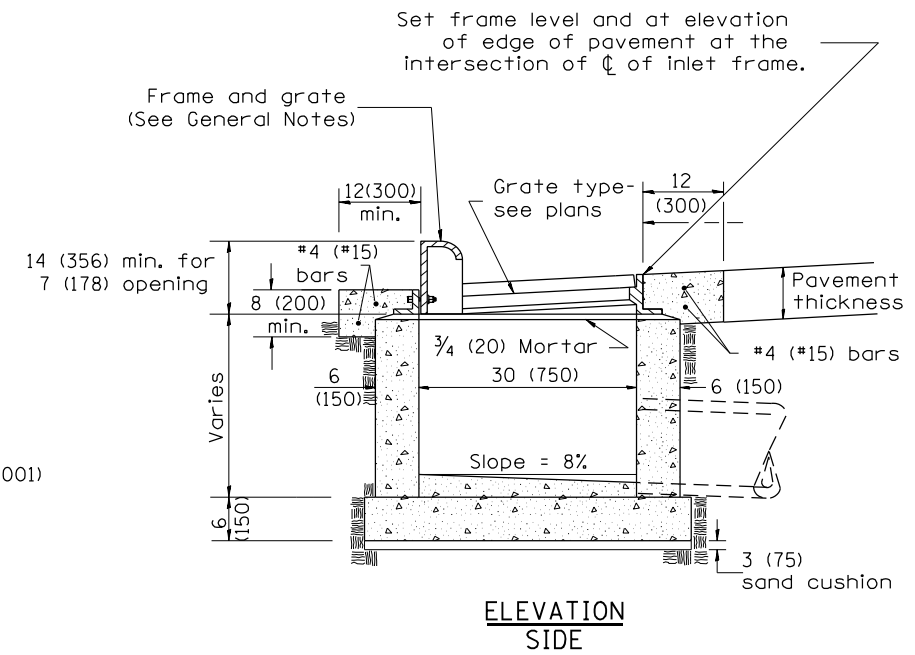
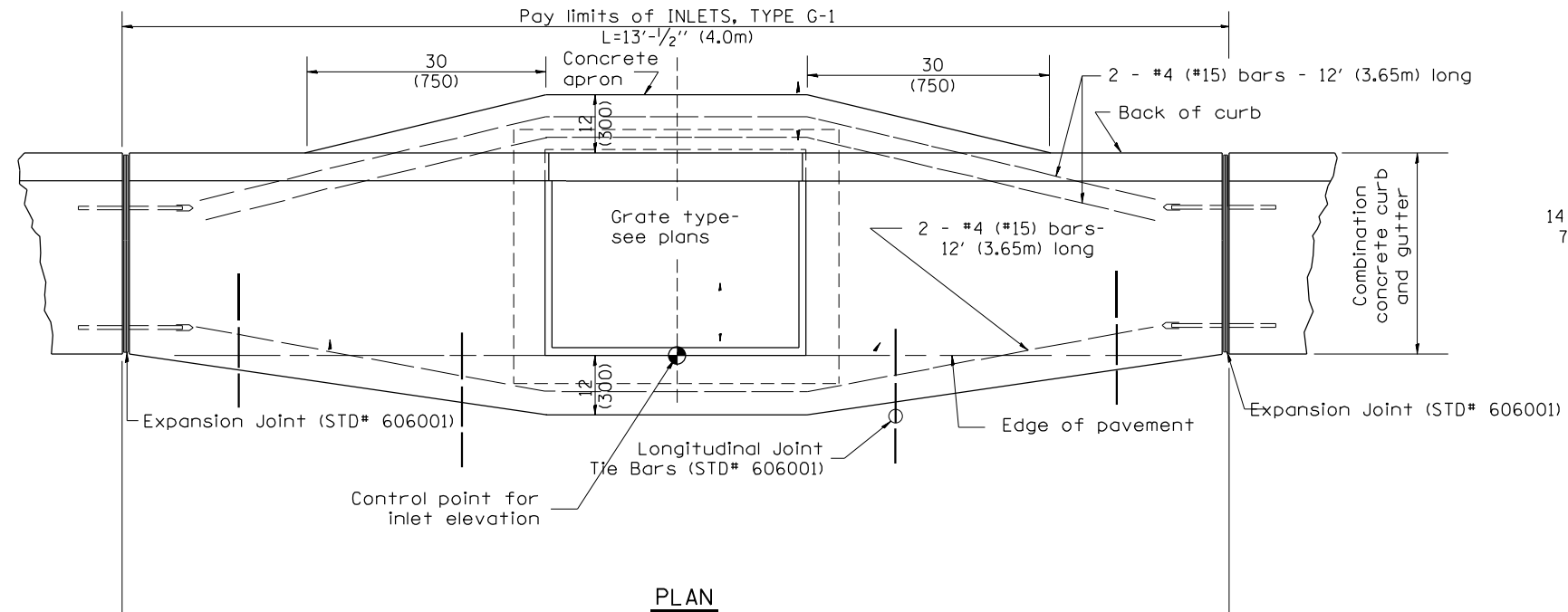
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAIL OF PIPE HANDRAIL FASTENING

NOT TO SCALE

CADD STD. 510001-D4

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------------------|--------|--------------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 255 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68F38 | |



GENERAL NOTES

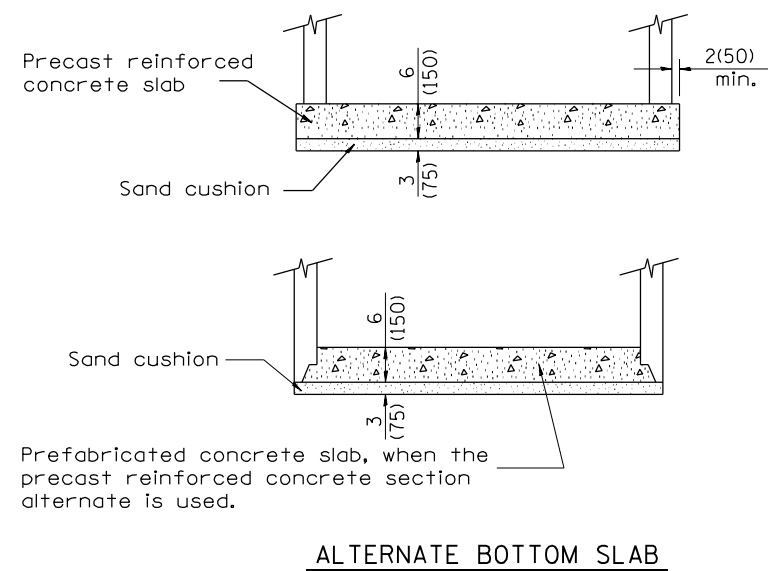
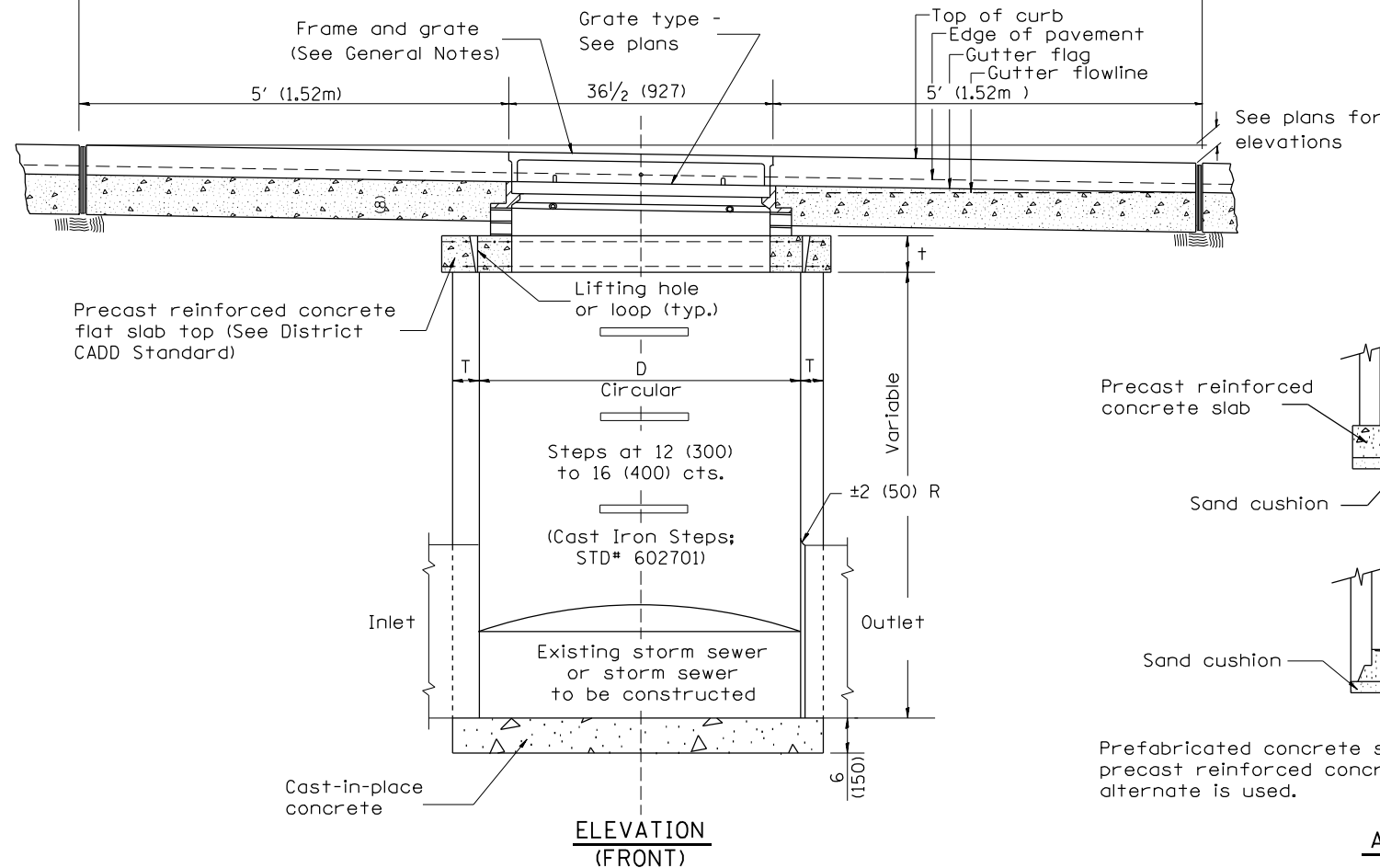
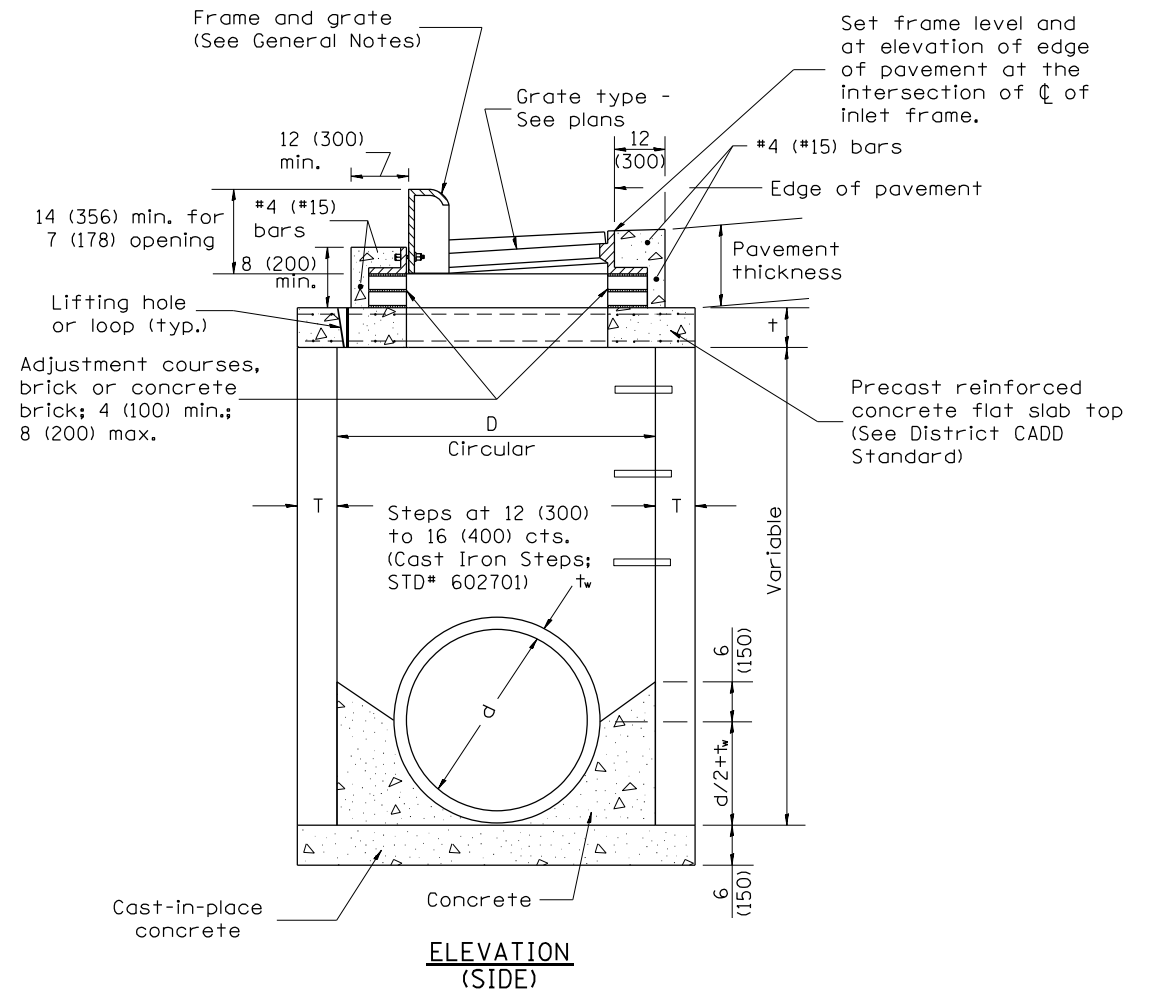
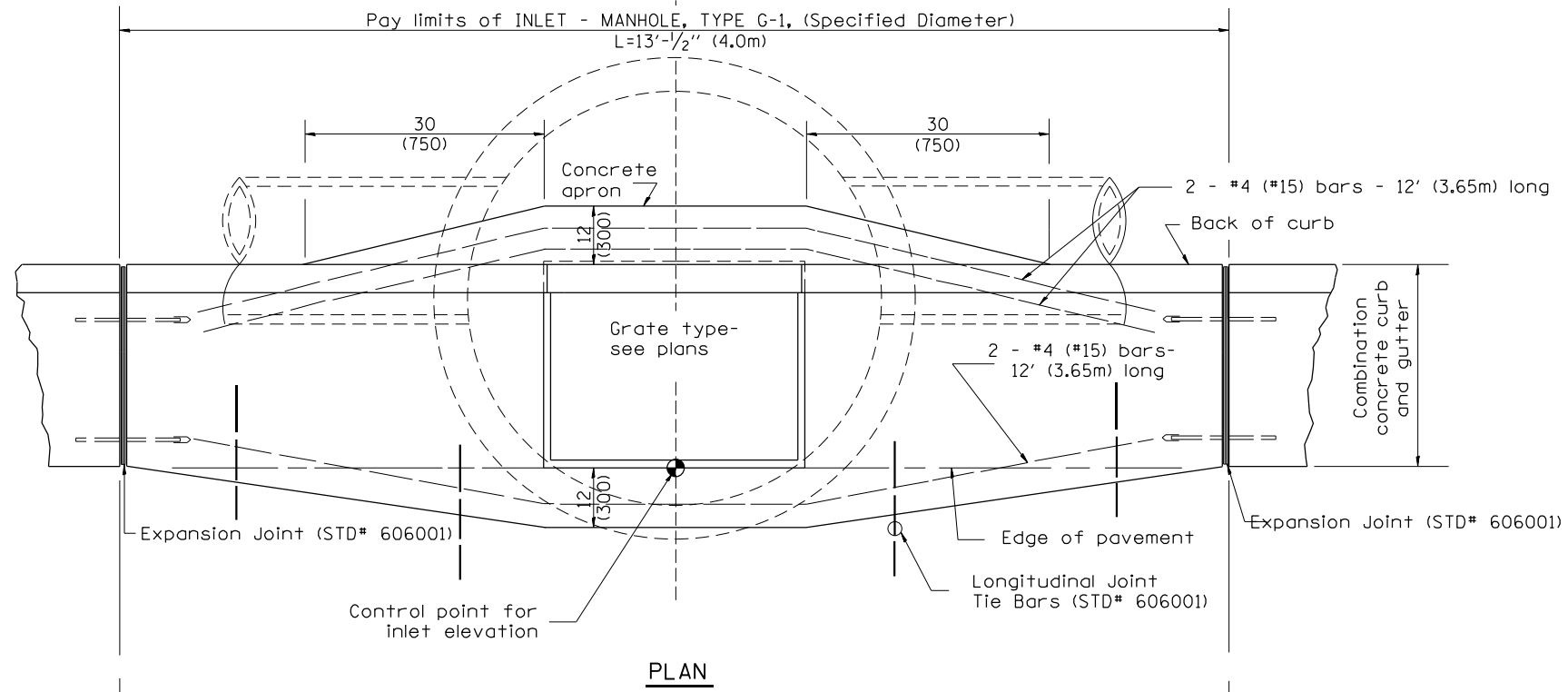
1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination Concrete Curb & Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.

All dimensions are in inches (millimeters) unless otherwise noted.

| | | | | | | | | | | | | | |
|----------|---------------------------------|------|--|--|--|---|-------------------------|---------------------|-----------------------|------------------|--------------|-----------|--|
| 01-01-97 | RENUM. B-4.01, NEW REVISION BOX | T.P. | | | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | INLETS, TYPE G-1 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| 10-99 | REVISION TO GENERAL NOTES | J.A. | | | | | | 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 256 | |
| 02-00 | REVISION TO DESIGNER NOTES | J.A. | | | | | | CONTRACT NO. 68F38 | | | | | |
| 10-16-06 | REVISED TO 2007 SPEC. | M.A. | | | | | | FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |

NOT TO SCALE

CADD STD. 602001-D4



TABLE

| D | T | + |
|-----------|-------------|----------|
| 4' (1.2m) | 5 (125) | 6 (150) |
| 5' (1.5m) | 6 (150) | 8 (200) |
| 6' (1.8m) | 7 3/4 (195) | 8 (200) |
| 8' (2.4m) | 9 (225) | 10 (250) |

- GENERAL NOTES
- Inlet-manhole construction shall be in accordance with Section 602 of the Standard Specifications.
 - Combination concrete curb and gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
 - See District CADD Standard 604001-D4 for frame and grates.
 - See District CADD Standard for precast reinforced concrete flat slab top.

All dimensions are in inches (millimeters) unless otherwise noted.

| | | |
|----------|---------------------------------|------|
| 01-01-97 | RENUM. B-4.05, NEW REVISION BOX | |
| 10-99 | REVISION TO GENERAL NOTES | J.A. |
| 02-00 | REVISION TO DESIGNER NOTES | J.A. |
| 10-16-06 | REVISED TO 2007 SPEC. | M.A. |

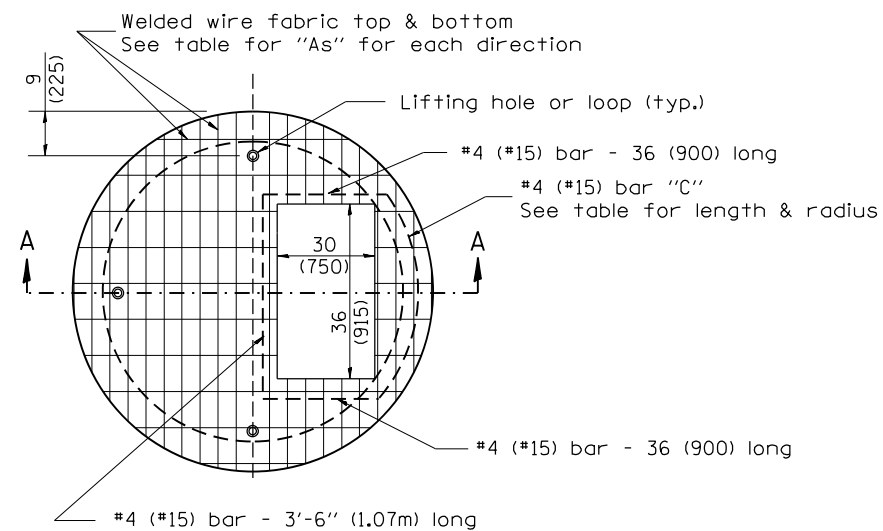
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

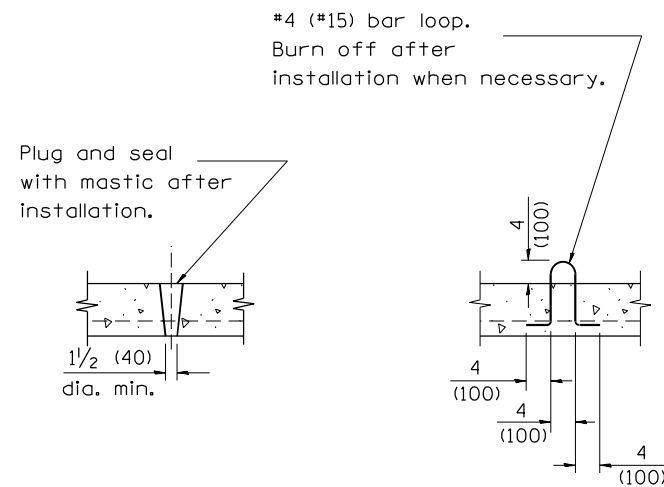
INLET-MANHOLE, TYPE G-1

CADD STD. 602021-D4

| | | | | |
|---------------------|---------------------------|-------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 257 |
| CONTRACT NO. 68F38 | | | | |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | PEORIA / TAZEVELL | | |



PLAN

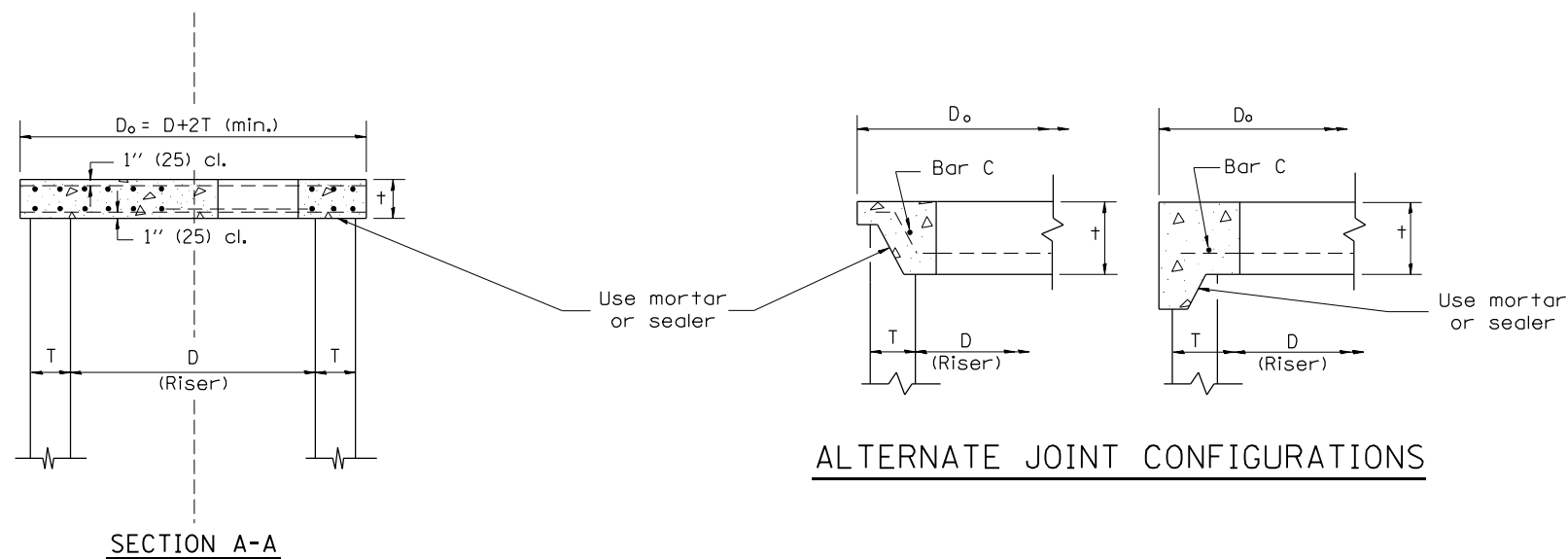
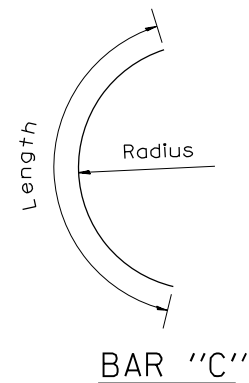


LIFTING HOLE OR LIFTING LOOP
TYPICAL

(3 required per slab)

TABLE

| D | T | D _o (min.) | t | Reinforcement "As" W.W.F. each direction | Bar size | No. 15 (No. 4) Bar C | |
|--------------|----------------|--------------------------|-------------|--|-------------------|-------------------------|------------------|
| | | | | | | Length | Radius |
| 4' (1.2m) | 5 (125) | 4'-10" (1.5m) | 6 (150) | 0.70 sq. inch/lin. ft. (1480mm ² /m) | No. 15 (No. 5) | 1.35m (4'-6") | 660 (26) |
| 5' (1.5m) | 6 (150) | 6'-0" (1.8m) | 8 (200) | 0.70 sq. inch/lin. ft. (1480mm ² /m) | No. 15 (No. 5) | 1.5m (5'-0") | 810 (32) |
| 6' (1.8m) | 7 3/4 (195) | 7'-3 1/2" (2.2m) | 8 (200) | 0.88 sq. inch/lin. ft. (1860mm ² /m) | No. 20 (No. 6) | 1.8m (6'-0") | 965 (38) |
| 8' (2.4m) | 9 (225) | 9'-6" (2.9m) | 10 (250) | 0.88 sq. inch/lin. ft. (1860mm ² /m) | No. 20 (No. 6) | 2.3m (7'-6") | 1.27m (4'-2") |



GENERAL NOTES

1. The precast reinforced concrete flat slab top shall be used with INLET-MANHOLE, TYPE G-1 and INLET-MANHOLE, TYPE G-1, SPECIAL.
2. Joint configuration and dimensions of flat slab top shall match and fit the riser joint detail.
3. Lifting devices shall be approved by the Engineer.

All dimensions are in inches (millimeters) unless otherwise noted.

| | | |
|----------|---------------------------------|------|
| 01-01-97 | RENUM. B-4.07, NEW REVISION BOX | T.P. |
| 10-16-06 | REVISED TO 2007 SPEC. | M.A. |

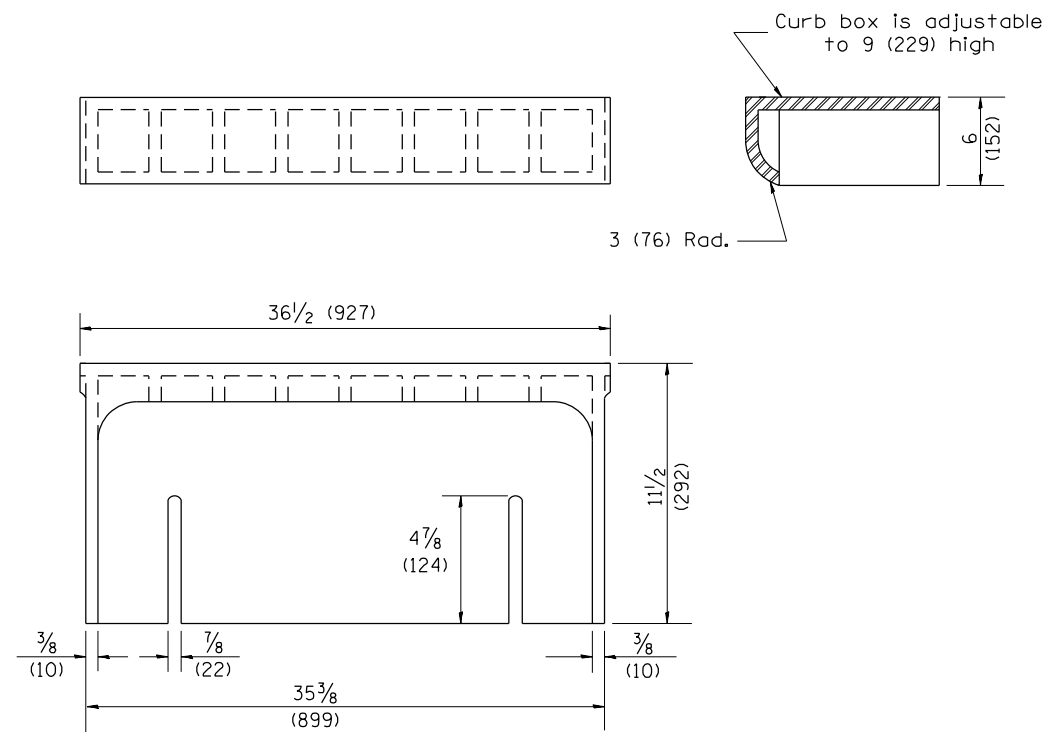
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST REINFORCED CONCRETE FLAT SLAB TOP FOR
INLET-MANHOLE, TYPE G-1 AND TYPE G-1, SPECIAL
NOT TO SCALE

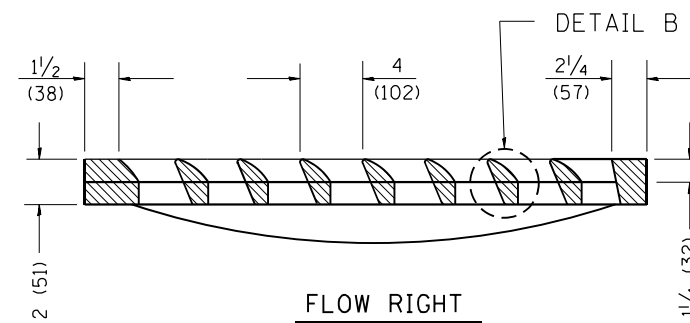
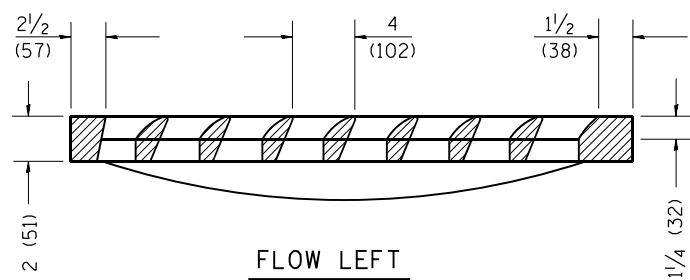
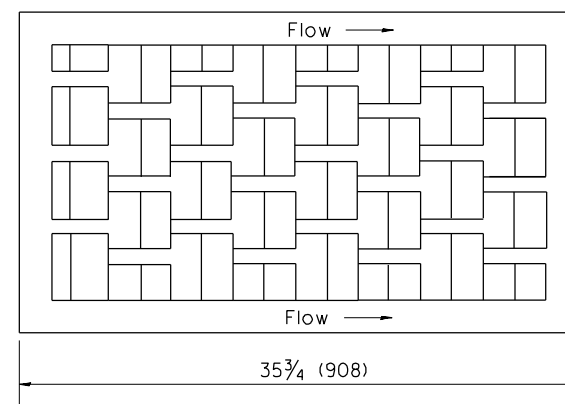
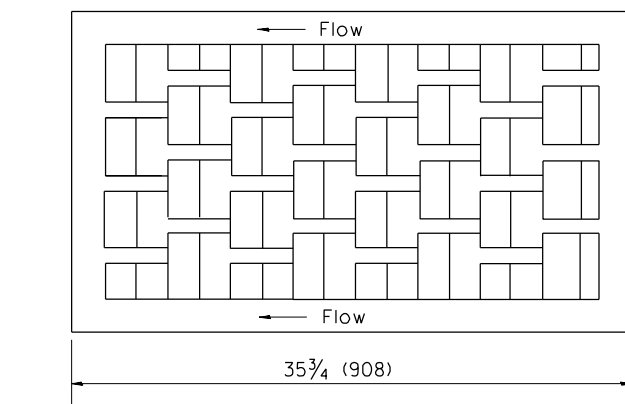
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 258 |
| CONTRACT NO. 68F38 | | | | |

CADD STD. 602101-D4

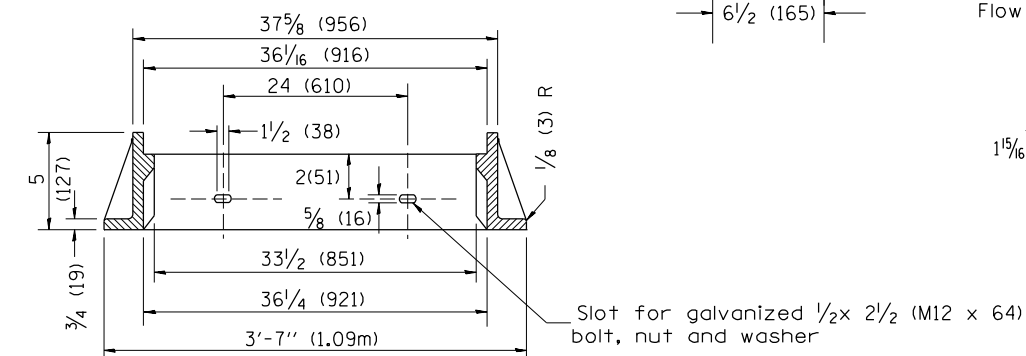
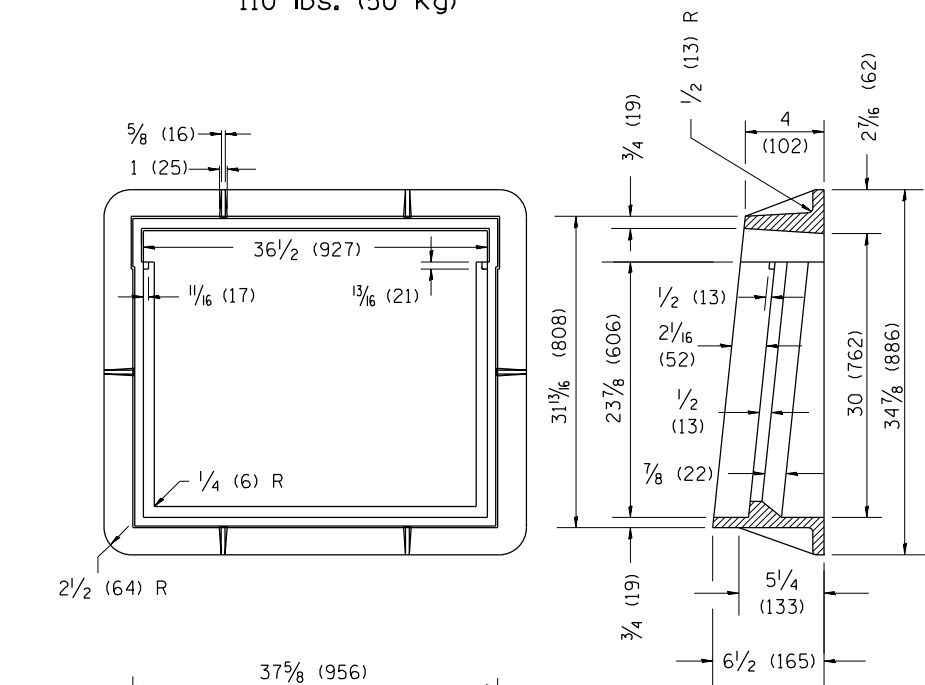
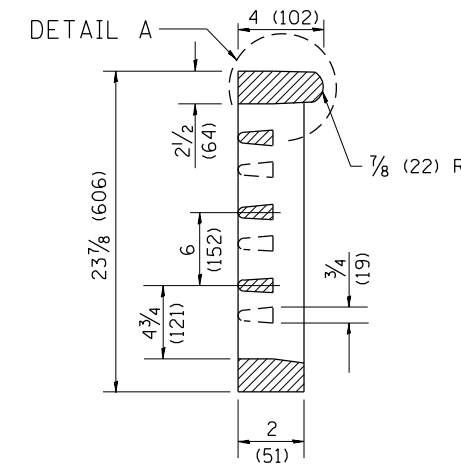
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT PEORIA / TAZEVELL



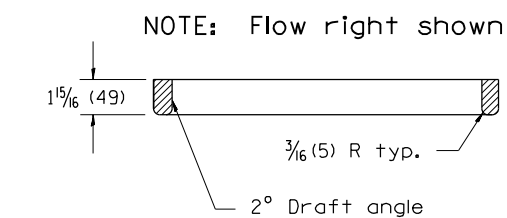
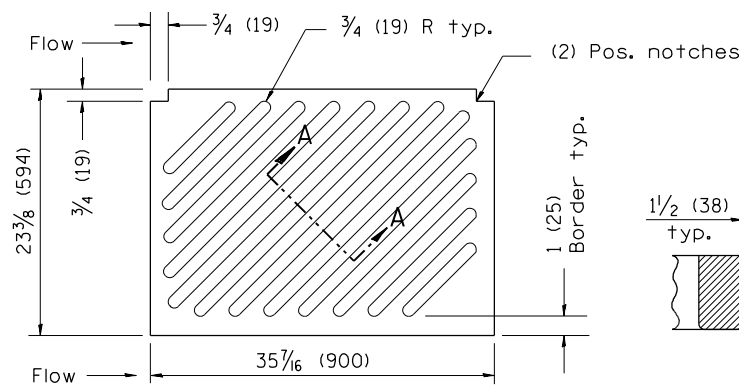
CAST CURB BOX
110 lbs. (50 kg)



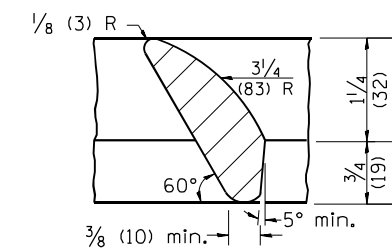
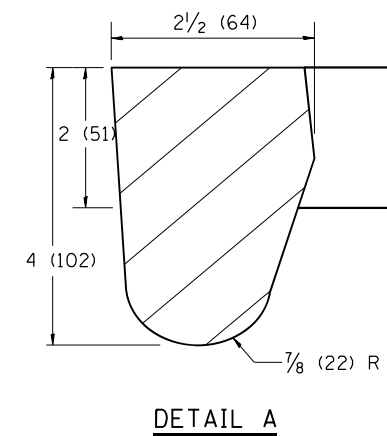
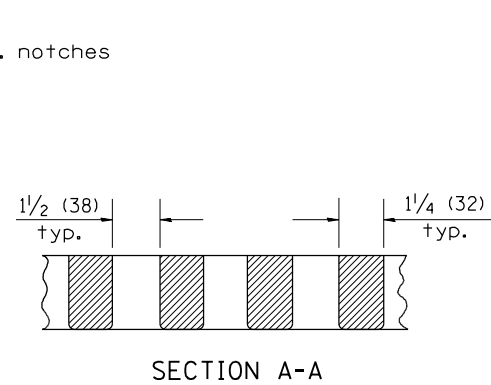
CAST VANE GRATES
(SPECIFY LEFT OR RIGHT FLOW)
230 lbs. (104 KG)



CAST FRAME
271 lbs. (123 kg)



CAST DIAGONAL GRATE
(Reversible for flow)
217 lbs. (98 kg)



GENERAL NOTES

1. The frame and grate shown on this drawing are for use with all TYPE G-1 and TYPE G-1, SPECIAL DRAINAGE STRUCTURES. See plans for grate type and flow direction.
2. Flow direction: As viewed from street side.
3. Material: cast gray iron.

All dimensions are in inches (millimeters) unless otherwise noted.

| | | |
|----------|----------------------------------|------|
| 01-01-97 | RENUM. B-10.01, NEW REVISION BOX | T.P. |
| 10-16-06 | REVISED TO 2007 SPEC. | M.A. |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAME & GRATES FOR TYPE G-1 AND TYPE G-1,
SPECIAL DRAINAGE STRUCTURES

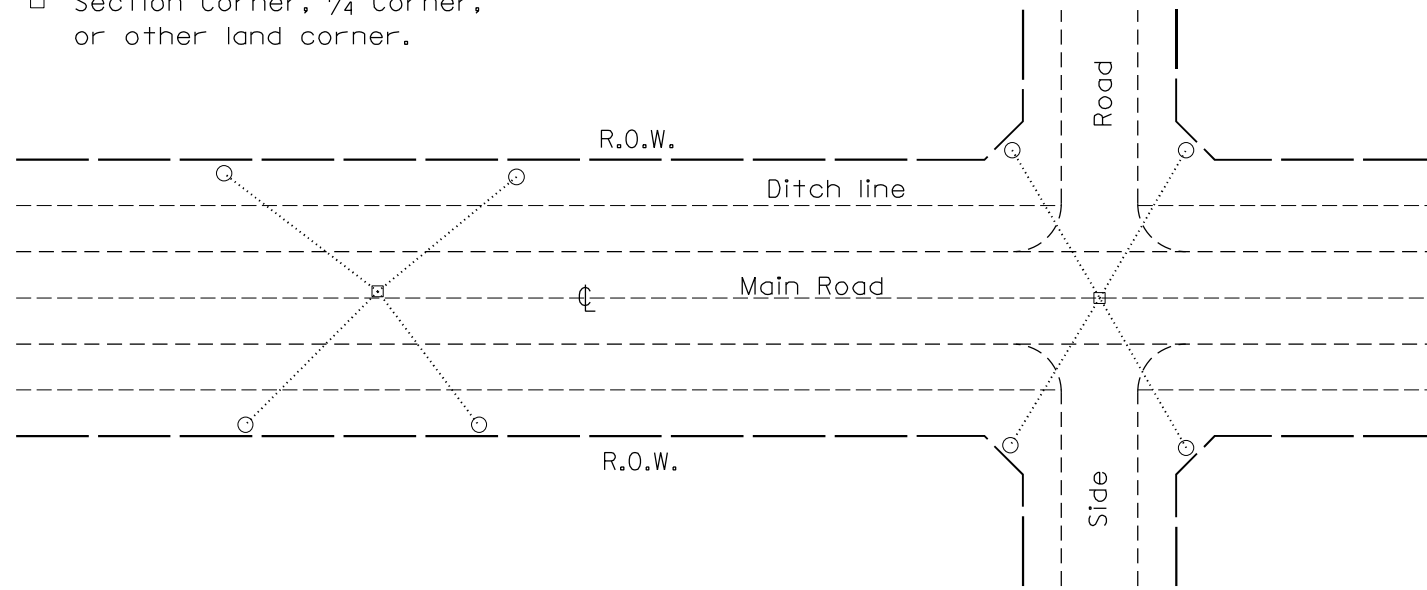
NOT TO SCALE

CADD STD. 604001-D4

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 259 |
| CONTRACT NO. 68F38 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

PERMANENT SURVEY TIES

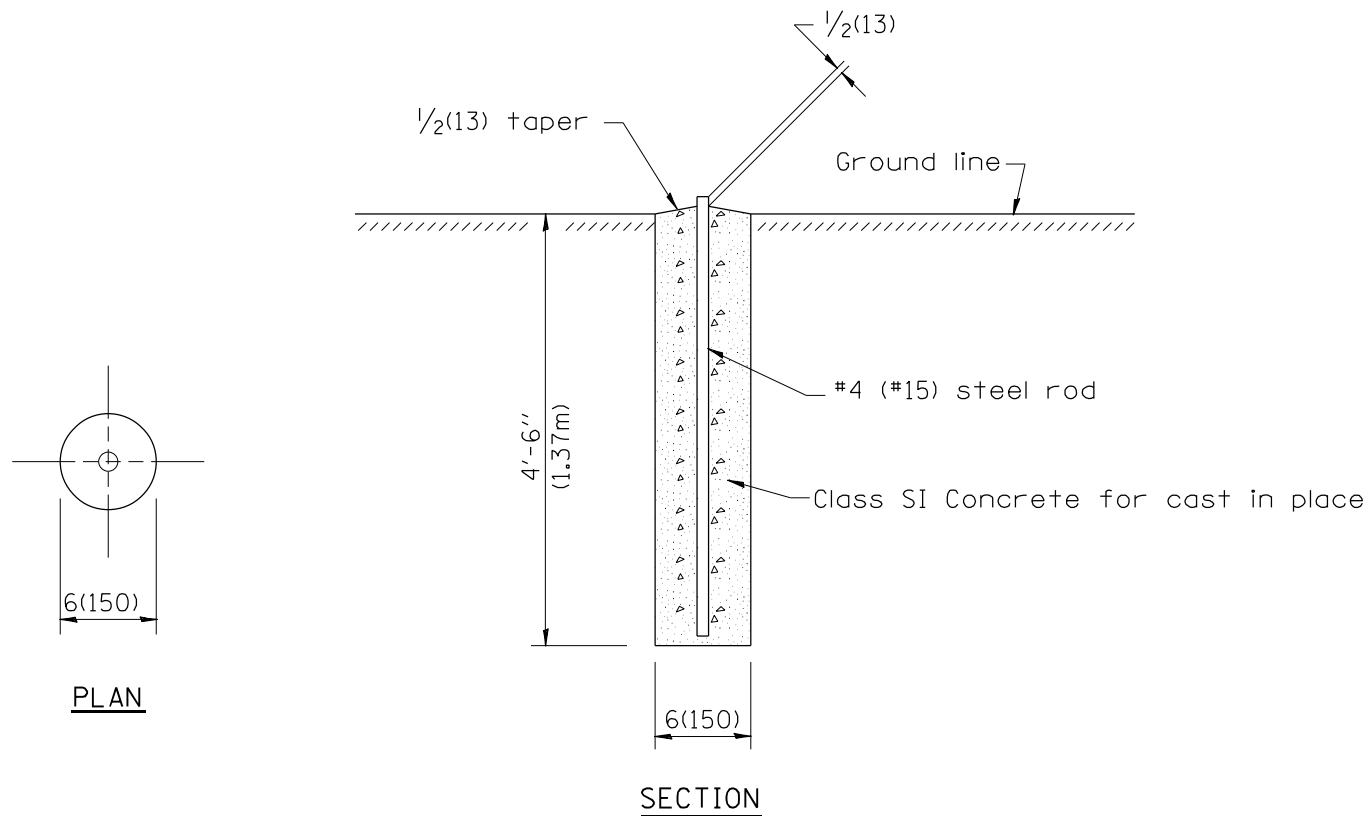
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



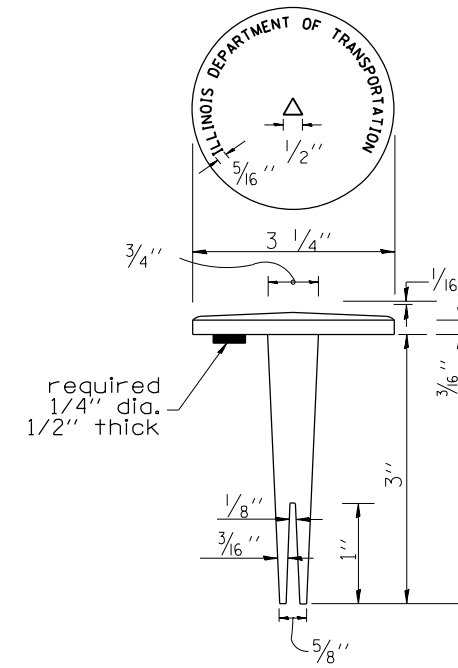
TYPICAL APPLICATION

GENERAL NOTES

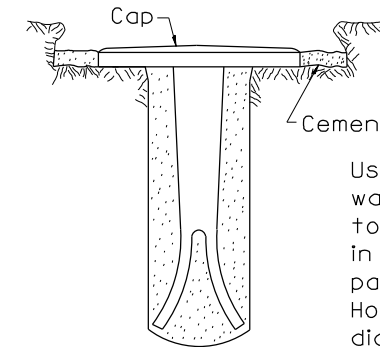
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats after recordation.
4. All documentation shall be performed by a PLS
5. The metal tablet used on permanent survey markers shall be made of bronze.



PERMANENT SURVEY MARKERS

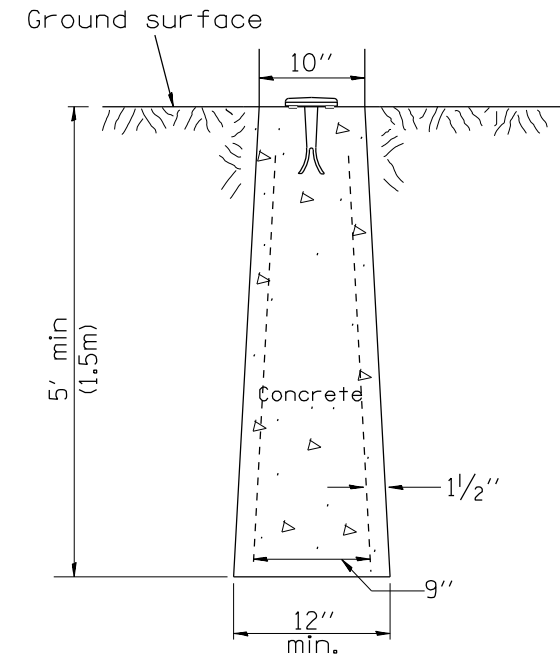


BRASS TABLET



Tablet constructed in rock ledge or concrete.

TYPE I



**TYPE II
CAST-IN-PLACE MARKER**

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

All dimensions are in inches (millimeters) unless otherwise noted.

| | | | | | |
|----------|--|------|----------|-------------------------|------|
| 01-01-97 | RENUM. D-3.01, NEW REVISION BOX, REVISED | T.P. | 10-16-06 | REVISED TO 2007 SPEC. | M.A. |
| | TITLE BOX, ADD DESIGNER NOTE | | 01-04-11 | REVISED FOR CORRECTIONS | R.D. |
| 07-07-98 | ADD DESIGNER NOTE | J.A. | 08-21-13 | CHANGED MIN. DIAMETER | R.D. |
| 05-24-06 | REMOVED GEN. NOTE UNDER TIES | M.A. | 08-25-15 | REVISED MATERIAL | R.D. |

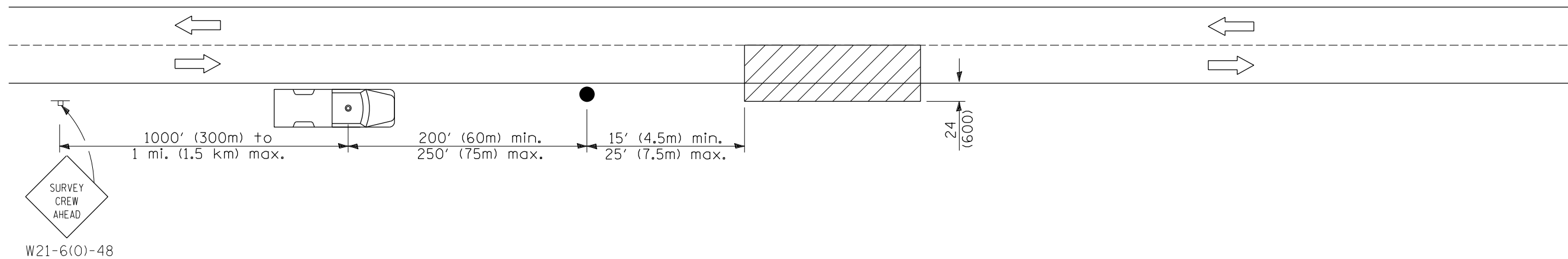
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I - TY.II**


CADD STD. 667101-D4

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 260 |
| CONTRACT NO. 68F38 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |




SYMBOLS

 Work area

 Sign on portable or permanent support

 Truck with flashing amber light and dual emergency flashers

 Flagger with traffic control sign

TYPICAL APPLICATIONS
Utility operations

All dimensions are in inches (millimeters) unless otherwise noted.

| | | |
|----------|---|------|
| 01-01-97 | RENUM. E-3.04, METRICS, NEW REVISION BOX, REVISED | T.P. |
| | TITLE BOX | |
| 10-16-06 | REVISED TO 2007 SPEC. | M.A. |

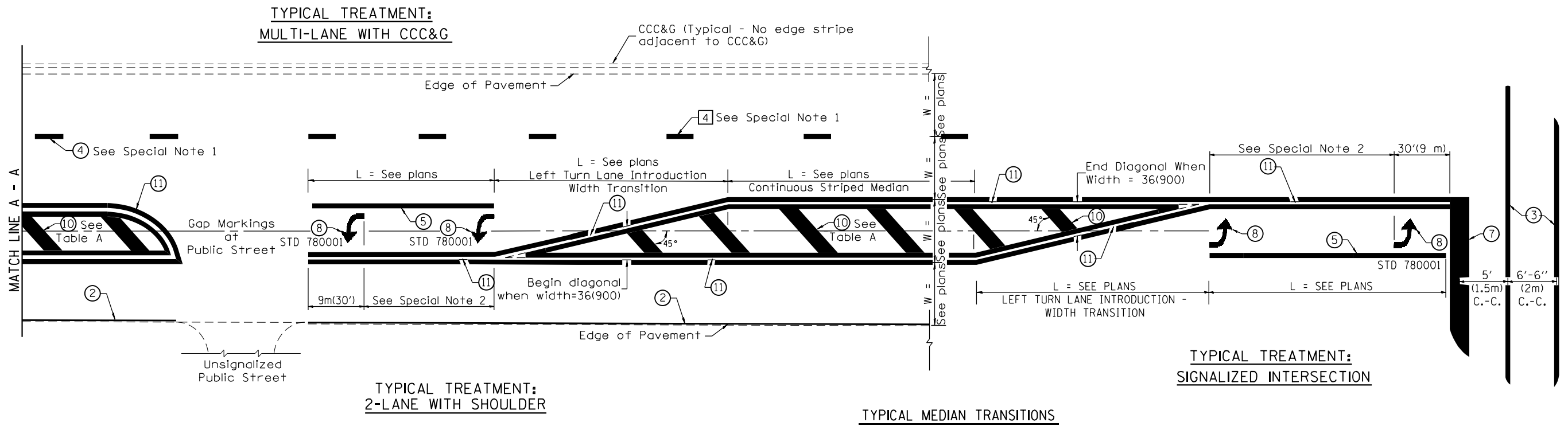
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NIGHTTIME LIGHTING INSPECTION

NOT TO SCALE

CADD STD. 701301-D4

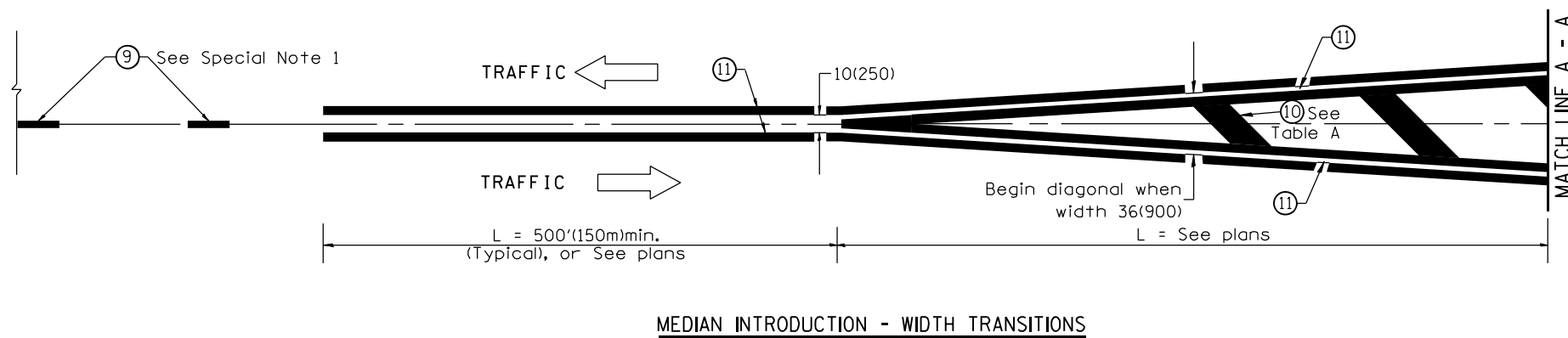
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------------------|--------|--------------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | - | 286 | 261 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68F38 | |



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

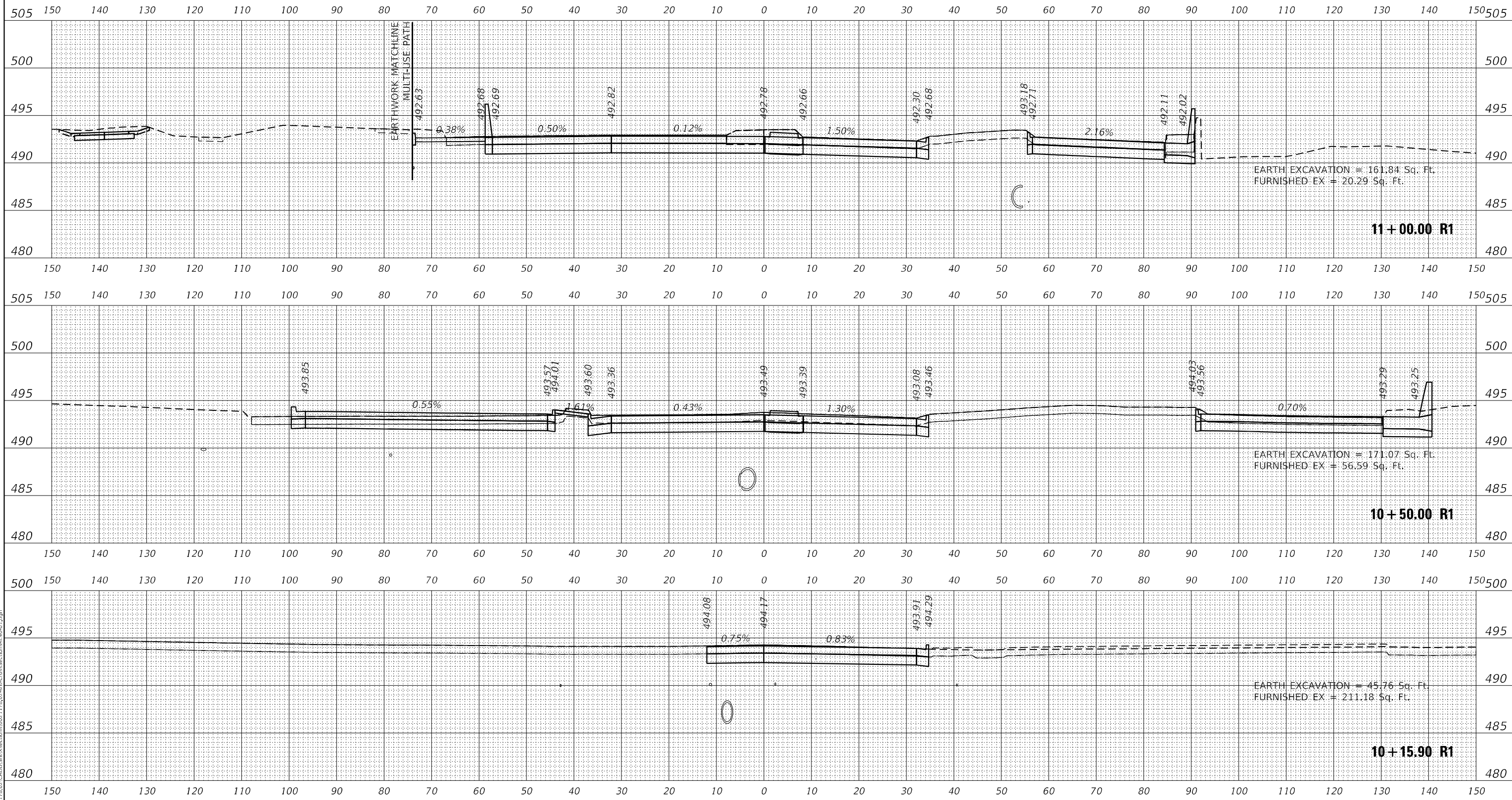
TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

| SPEED LIMIT RANGE | CONTINUOUS | INTERSECTION CHANNELIZATION |
|----------------------------|------------|--|
| | | (Includes Width Transitions for Median and Left Turn Lane Introductions) |
| Less Than 30 mph (50 km/h) | 50' (15m) | 15' (5m) |
| 30 - 45 mph (50 - 70 km/h) | 75' (23m) | 20' (6m) |
| Over 45 mph (70 km/h) | 150' (46m) | 30' (9m) |



All dimensions are in inches (millimeters) unless otherwise noted.

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.
 3. EXISTING MSE WALL STRAPS ARE ESTIMATED TO BE 0.7 X H OR A MINIMUM OF 8 FT LONG.



| | |
|--------------|---------------|
| DATE | |
| BY | |
| FINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |

| | |
|-----------------|---------------|
| DATE | |
| BY | |
| ORIGINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |

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| | | |
|-----------------------------|------------------|-----------|
| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| PLOT SCALE = 20,0000' / in. | DRAWN - JPM | REVISED - |
| PLOT DATE = 8/24/2022 | CHECKED - JPA | REVISED - |
| | DATE - 8/24/2022 | REVISED - |

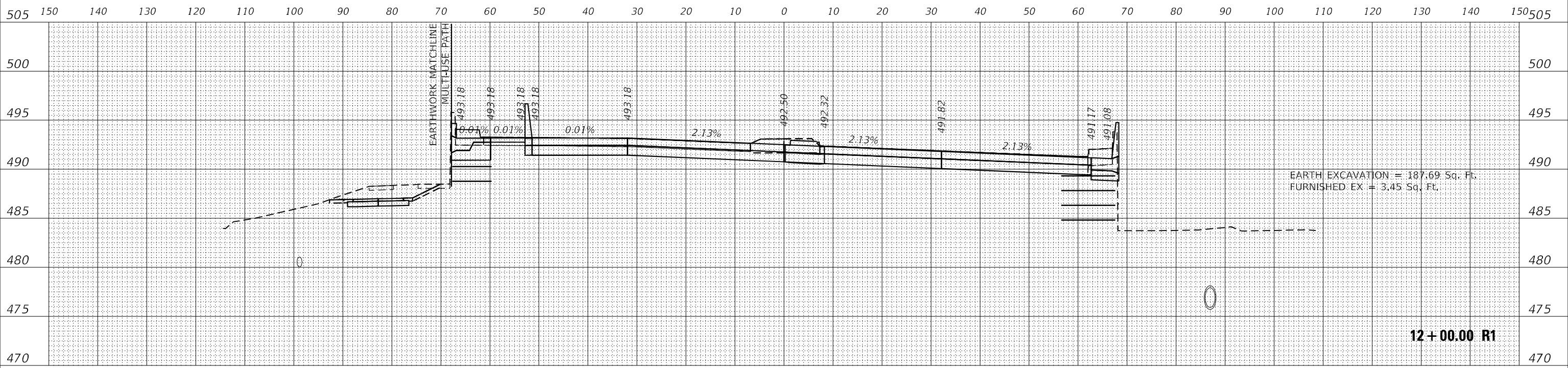
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - FAP 404 (IL ROUTE 40)**
 SCALE: 1" = 10' SHEET 01 OF 10 SHEETS STA. 10+15.90 R1 TO STA. 11+00.00 R1

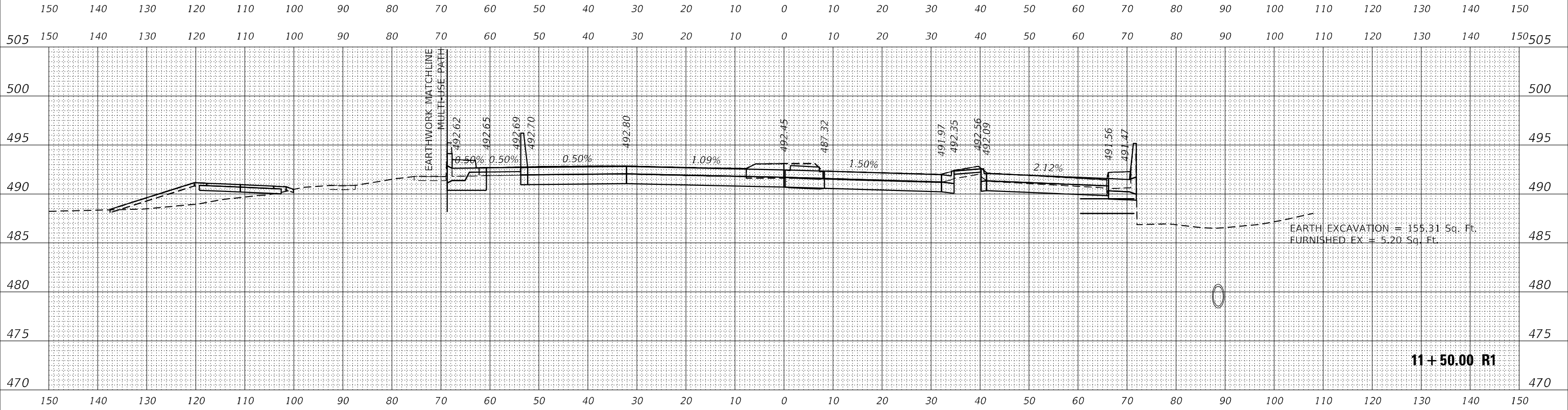
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|--------------|-----------------------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 264 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS | | FED. AID PROJECT | | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.
 3. EXISTING MSE WALL STRAPS ARE ESTIMATED TO BE 0.7 X H OR A MINIMUM OF 8 FT LONG.

| | |
|--------------|---------------|
| DATE | |
| BY | |
| FINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |



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| DATE | |
| BY | |
| ORIGINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |



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| | |
|-------------|-----------|
| USER NAME = | Roadway |
| DESIGNED - | JPM |
| DRAWN - | JPM |
| CHECKED - | JPA |
| DATE - | 8/24/2022 |
| REVISED - | |
| REVISED - | |
| REVISED - | |
| REVISED - | |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - FAP 404 (IL ROUTE 40)**
 SCALE: 1" = 10' SHEET 02 OF 10 SHEETS STA. 11+50.00 R1 TO STA. 12+00.00 R1

| | | | | |
|---------------------------|-----------------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 265 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |

| | |
|--------------|---------------|
| DATE | |
| BY | |
| FINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
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| | AREAS CHECKED |
| | AREAS CHECKED |

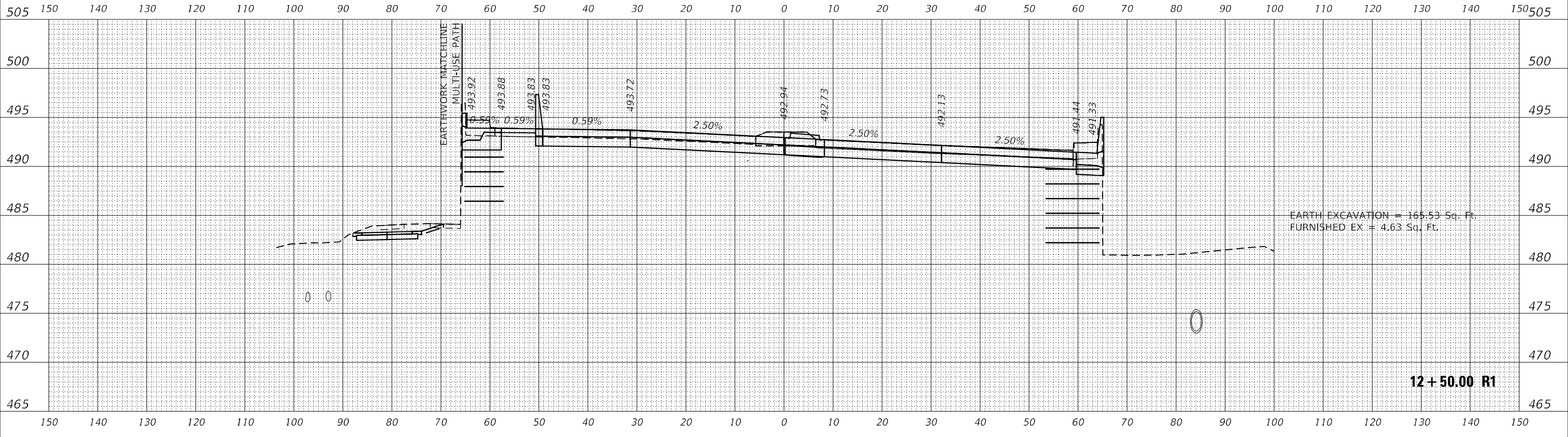


NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.
 3. EXISTING MSE WALL STRAPS ARE ESTIMATED TO BE 0.7 X H OR A MINIMUM OF 8 FT LONG.

EARTH EXCAVATION = 141.73 Sq. Ft.
 FURNISHED EX = 5.46 Sq. Ft.

13+00.00 R1

| | |
|-----------------|---------------|
| DATE | |
| BY | |
| ORIGINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |
| | AREAS CHECKED |



EARTH EXCAVATION = 165.53 Sq. Ft.
 FURNISHED EX = 4.63 Sq. Ft.

12+50.00 R1

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| | | | | | |
|--------------|----------------|------------|-----------|-----------|--|
| USER NAME = | Roadway | DESIGNED - | JPM | REVISED - | |
| | | DRAWN - | JPM | REVISED - | |
| PLOT SCALE = | 20,0000' / in. | CHECKED - | JPA | REVISED - | |
| PLOT DATE = | 8/24/2022 | DATE - | 8/24/2022 | REVISED - | |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - FAP 404 (IL ROUTE 40)**

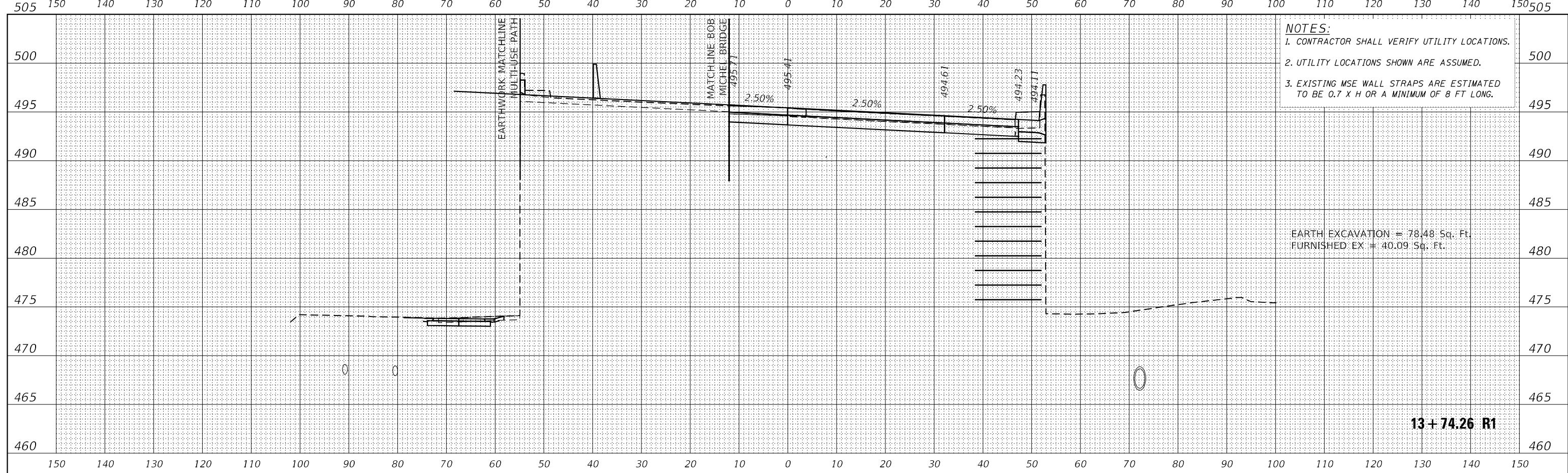
SCALE: 1" = 10' SHEET 03 OF 10 SHEETS STA. 12+50.00 R1 TO STA. 13+00.00 R1

| | | | | |
|---------------------------|-----------------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 266 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |

| | | |
|--------------|---------------|------|
| FINAL SURVEY | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| NO. | TEMPLATE | |
| | AREAS CHECKED | |
| | AREAS CHECKED | |

| | | |
|-----------------|---------------|------|
| ORIGINAL SURVEY | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
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| | AREAS CHECKED | |

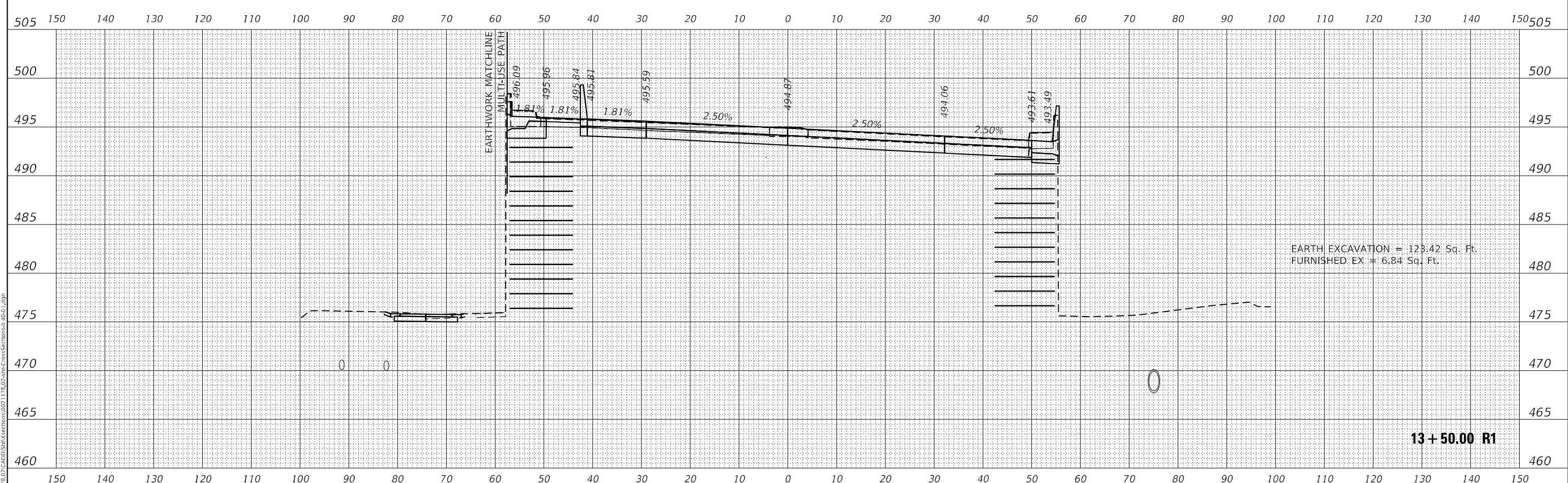
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NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.
 3. EXISTING MSE WALL STRAPS ARE ESTIMATED TO BE 0.7 X H OR A MINIMUM OF 8 FT LONG.

EARTH EXCAVATION = 78.48 Sq. Ft.
 FURNISHED EX = 40.09 Sq. Ft.

13+74.26 R1



EARTH EXCAVATION = 123.42 Sq. Ft.
 FURNISHED EX = 6.84 Sq. Ft.

13+50.00 R1



| | | |
|-----------------------------|------------------|-----------|
| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| PLOT SCALE = 20,0000' / in. | DRAWN - JPM | REVISED - |
| PLOT DATE = 8/24/2022 | CHECKED - JPA | REVISED - |
| | DATE - 8/24/2022 | REVISED - |

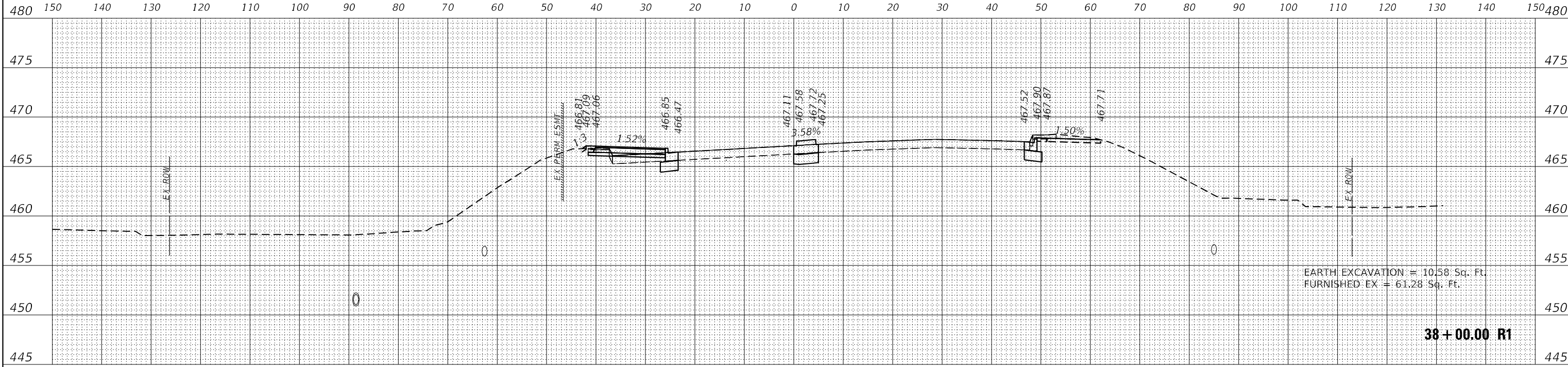
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - FAP 404 (IL ROUTE 40)**
 SCALE: 1" = 10' SHEET 04 OF 10 SHEETS STA. 13+50.00 R1 TO STA. 13+74.26 R1

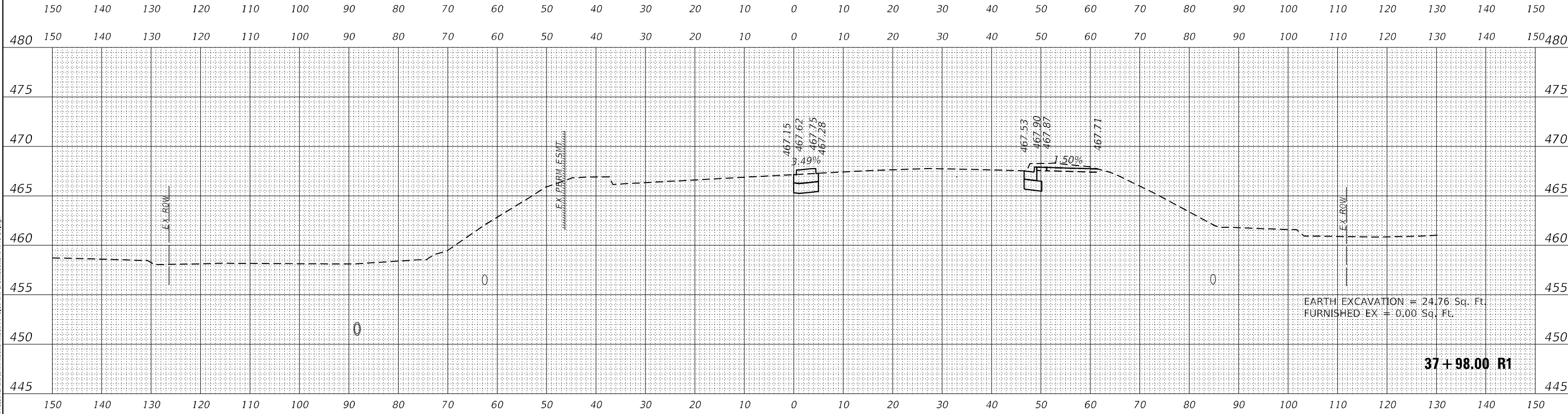
| | | | | |
|--------------------|-------------------------------|----------|---|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY * | TOTAL SHEETS 286 | SHEET NO. 267 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT PEORIA / TAZEWELL | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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|--------------|---------------|
| DATE | |
| BY | |
| FINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |



| | |
|-----------------|---------------|
| DATE | |
| BY | |
| ORIGINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |



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| | | | | | |
|--------------|----------------|------------|-----------|-----------|--|
| USER NAME = | Roadway | DESIGNED - | JPM | REVISED - | |
| | | DRAWN - | JPM | REVISED - | |
| PLOT SCALE = | 20,0000' / in. | CHECKED - | JPA | REVISED - | |
| PLOT DATE = | 8/24/2022 | DATE - | 8/24/2022 | REVISED - | |

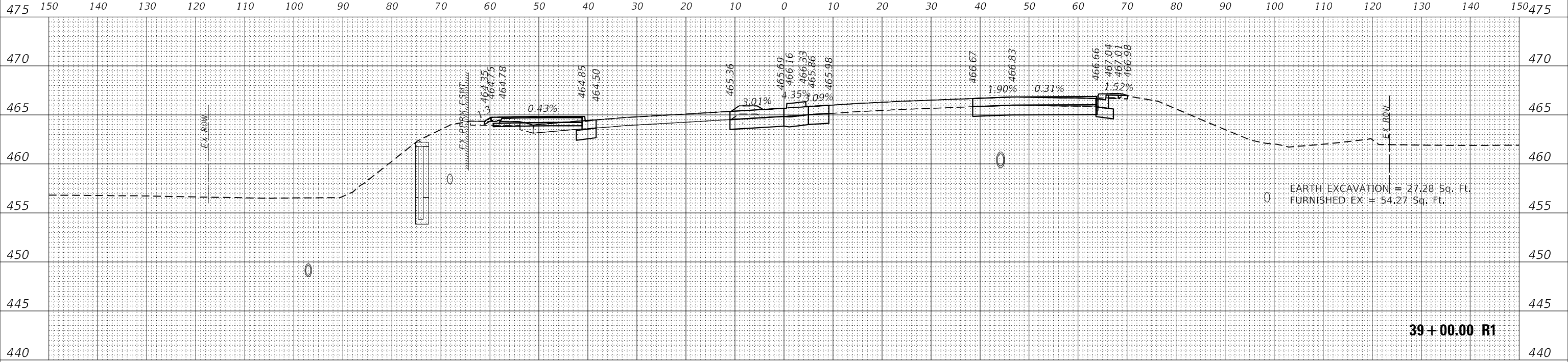
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - FAP 404 (IL ROUTE 40)
 SCALE: 1" = 10' SHEET 05 OF 10 SHEETS STA. 37+98.00 R1 TO STA. 38+00.00 R1

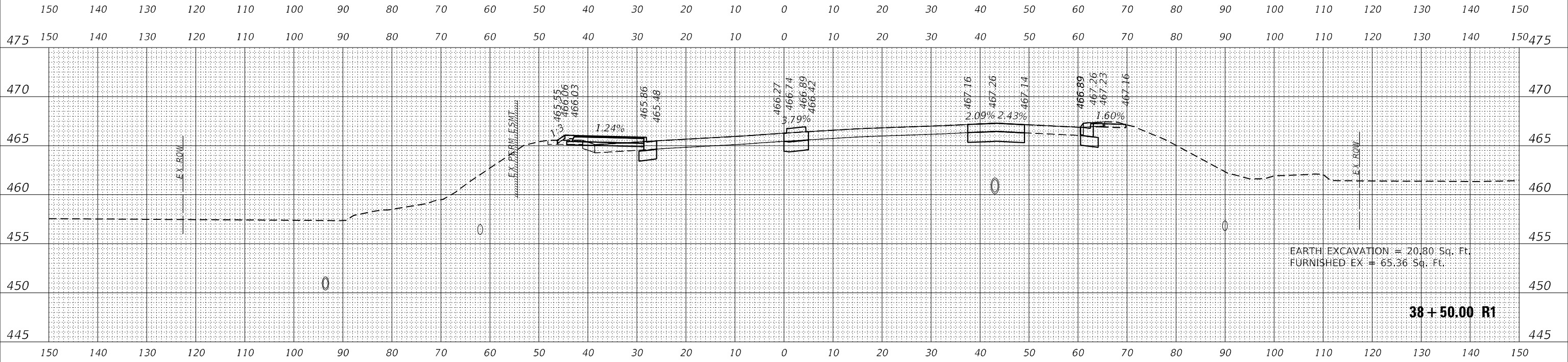
| | | | | |
|---------------------------|-----------------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 268 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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| BY | |
| FINAL SURVEY | SURVEYED |
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| DATE | |
| BY | |
| ORIGINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |



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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 20,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - FAP 404 (IL ROUTE 40)**

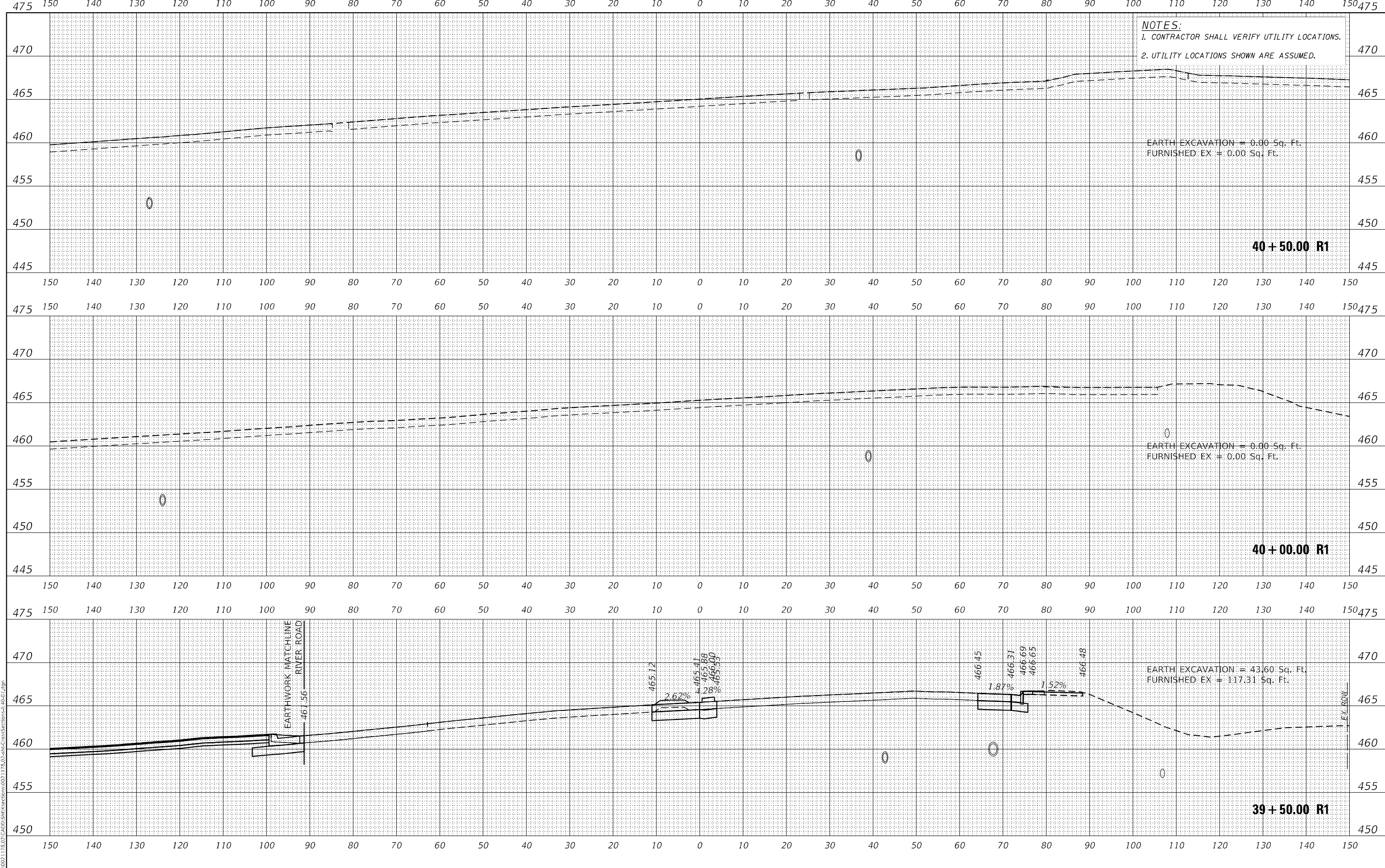
SCALE: 1" = 10' SHEET 06 OF 10 SHEETS STA. 38+50.00 R1 TO STA. 39+00.00 R1

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| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY * | TOTAL SHEETS 286 | SHEET NO. 269 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT PEORIA / TAZEWELL | |

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| BY | |
| FINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
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| ORIGINAL SURVEY | SURVEYED |
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NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

EARTH EXCAVATION = 0.00 Sq. Ft.
 FURNISHED EX = 0.00 Sq. Ft.

EARTH EXCAVATION = 0.00 Sq. Ft.
 FURNISHED EX = 0.00 Sq. Ft.

EARTH EXCAVATION = 43.60 Sq. Ft.
 FURNISHED EX = 117.31 Sq. Ft.



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| USER NAME = | Roadway |
| DESIGNED - | JPM |
| DRAWN - | JPM |
| PLLOT SCALE = | 20,0000' / in. |
| CHECKED - | JPA |
| PLLOT DATE = | 8/24/2022 |
| DATE - | 8/24/2022 |

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| REVISED - | |
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| REVISED - | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

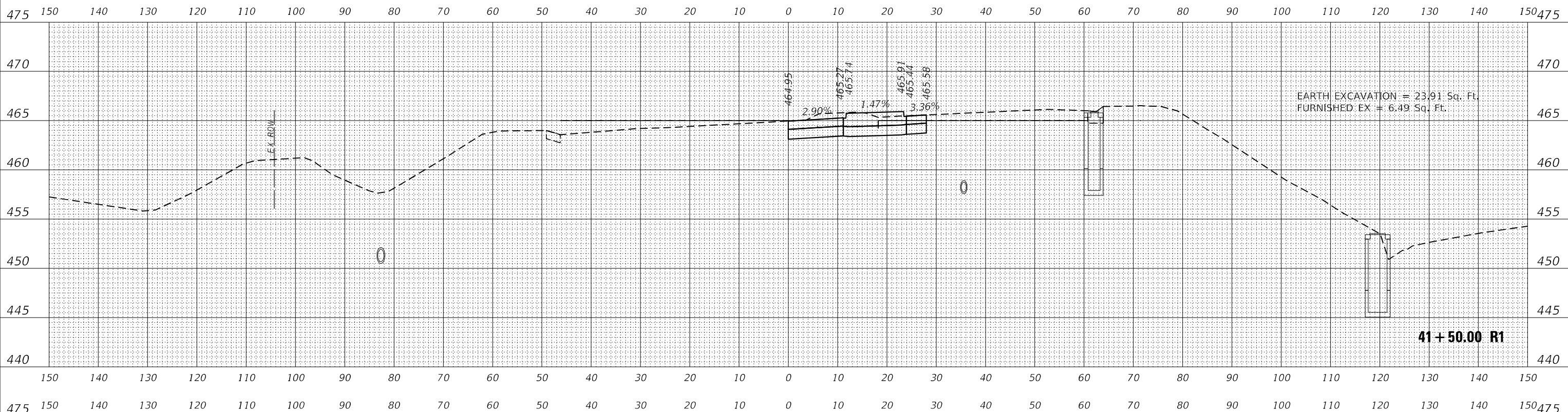
BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - FAP 404 (IL ROUTE 40)

SCALE: 1" = 10' SHEET 07 OF 10 SHEETS STA. 39+50.00 R1 TO STA. 40+50.00 R1

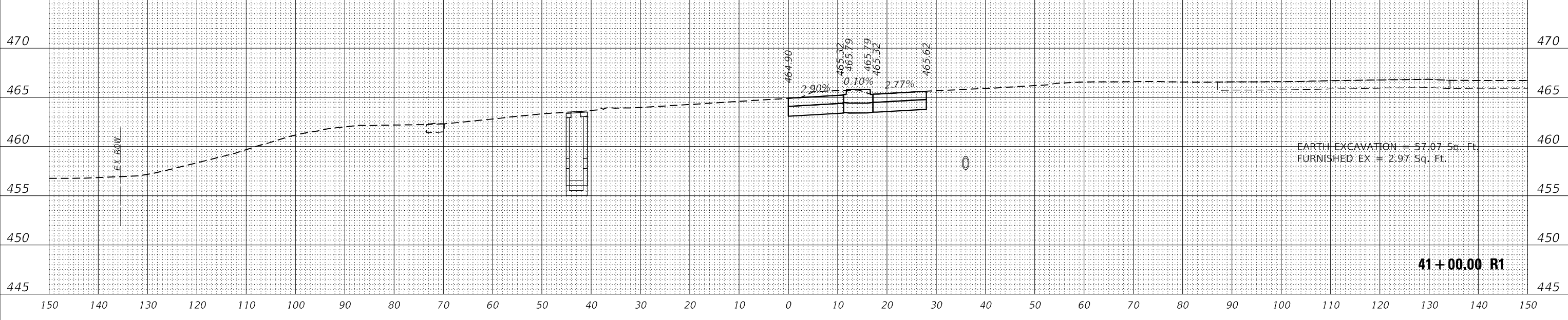
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 270 |
| CONTRACT NO. | | | 68F38 | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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| NOTE BOOK | |
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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| PLOT SCALE = 20,0000 * / in. | DRAWN - JPM | REVISED - |
| PLOT DATE = 8/24/2022 | CHECKED - JPA | REVISED - |
| | DATE - 8/24/2022 | REVISED - |

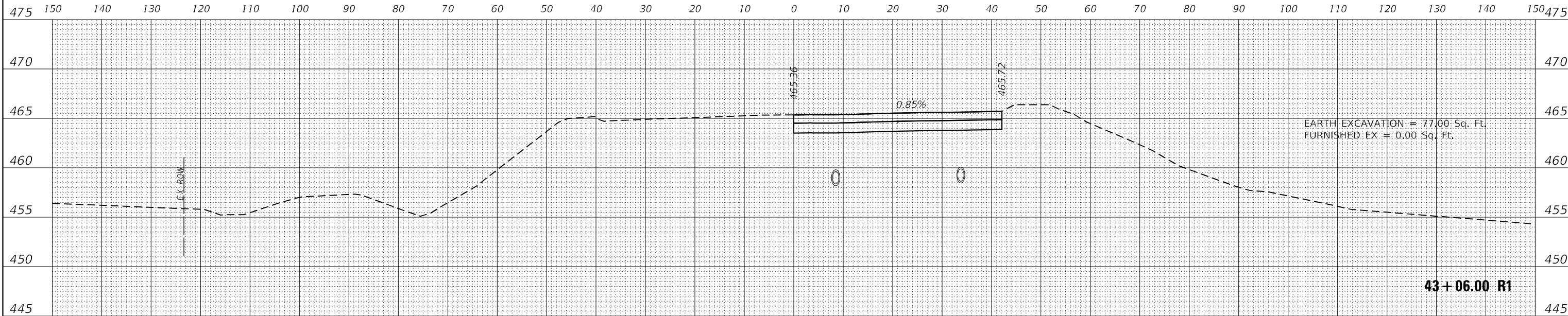
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - FAP 404 (IL ROUTE 40)**
 SCALE: 1" = 10' SHEET 08 OF 10 SHEETS STA. 41+00.00 R1 TO STA. 41+50.00 R1

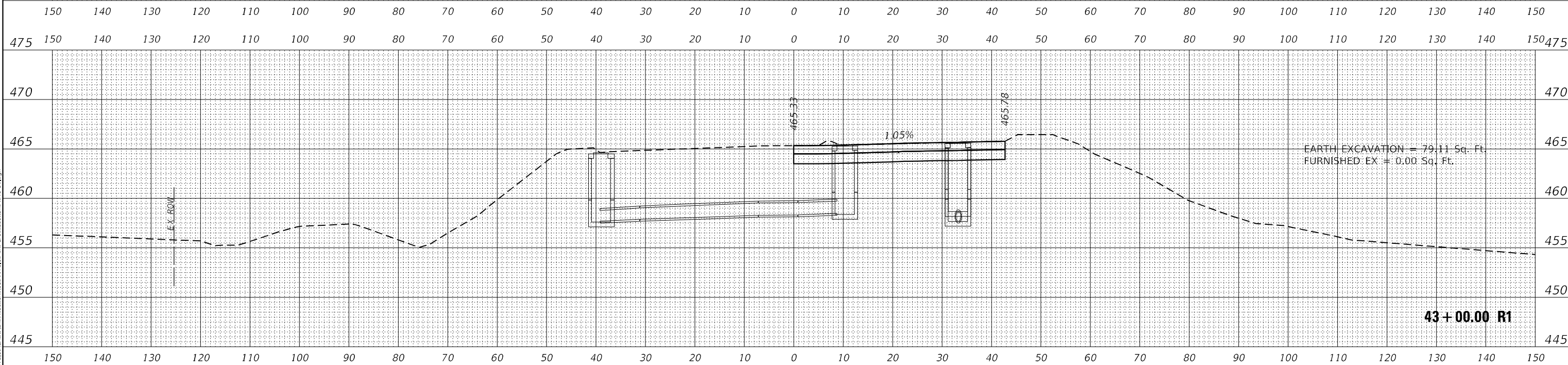
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 271 |
| CONTRACT NO. 68F38 | | | | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 20,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - FAP 404 (IL ROUTE 40)

SCALE: 1" = 10' SHEET 10 OF 10 SHEETS STA. 43+00.00 R1 TO STA. 43+06.00 R1

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------------------|--------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 273 |
| CONTRACT NO. 68F38 | | | | |

ILLINOIS FED. AID PROJECT

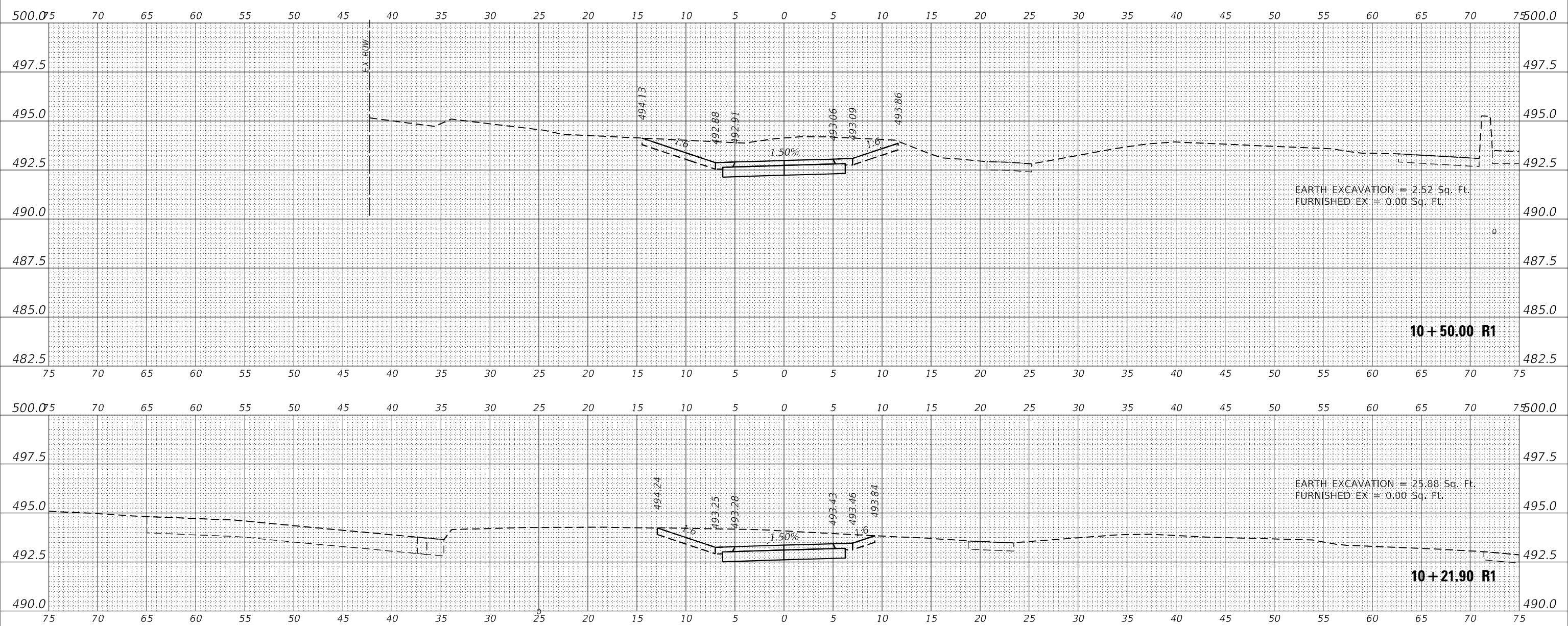
PEORIA / TAZEWELL

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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| FINAL SURVEY NO. | |
| SURVEYED | |
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| ORIGINAL SURVEY NO. | |
| SURVEYED | |
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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - MULTI-USE PATH**

SCALE: 1" = 5'
 SHEET 01 OF 07 SHEETS
 STA. 10+21.90 R1 TO STA. 10+50.00 R1

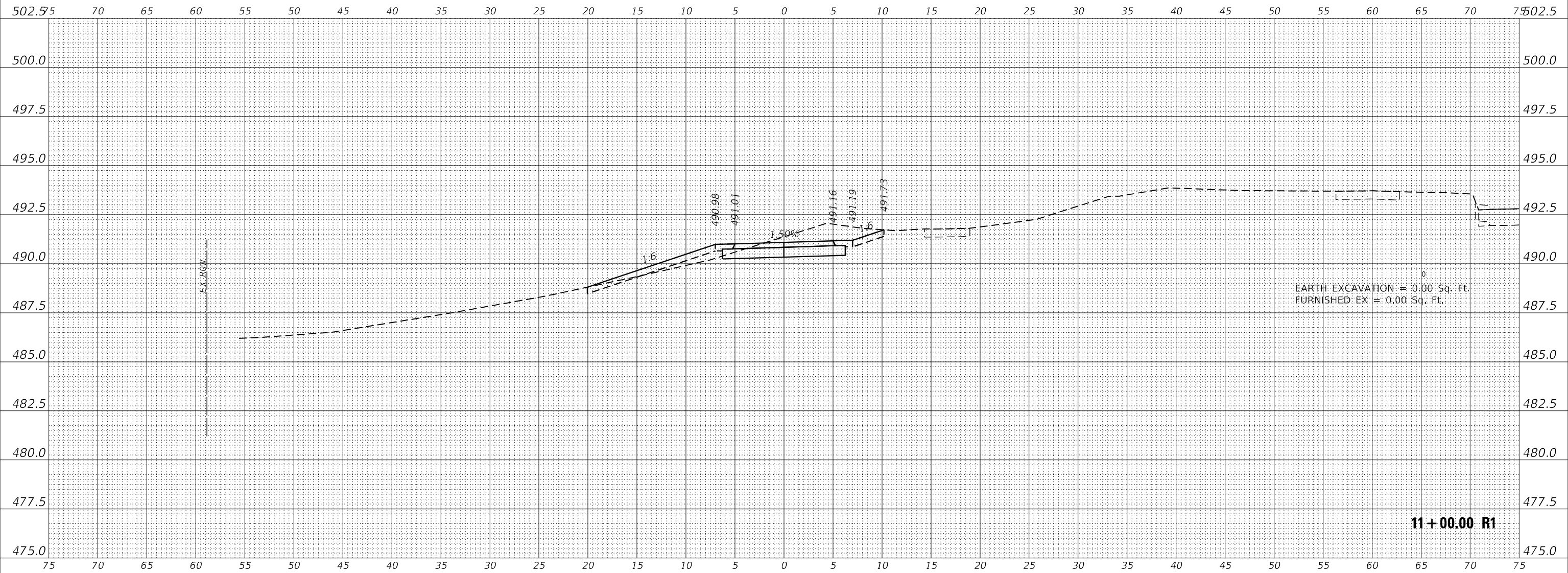
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|--------------------|-------------------------------|----------|---------------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY * | TOTAL SHEETS 286 | SHEET NO. 274 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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| FINAL SURVEY | SURVEYED | BY | DATE |
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| ORIGINAL SURVEY | SURVEYED | BY | DATE |
| NOTE BOOK NO. | PLOTTED | | |
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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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| BOB MICHEL BRIDGE REHABILITATION CROSS SECTIONS - MULTI-USE PATH | | |
| SCALE: 1" = 5' | SHEET 02 OF 07 SHEETS | STA. 11+00.00 R1 TO STA. 11+00.00 R1 |

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 275 |
| CONTRACT NO. 68F38 | | | | |

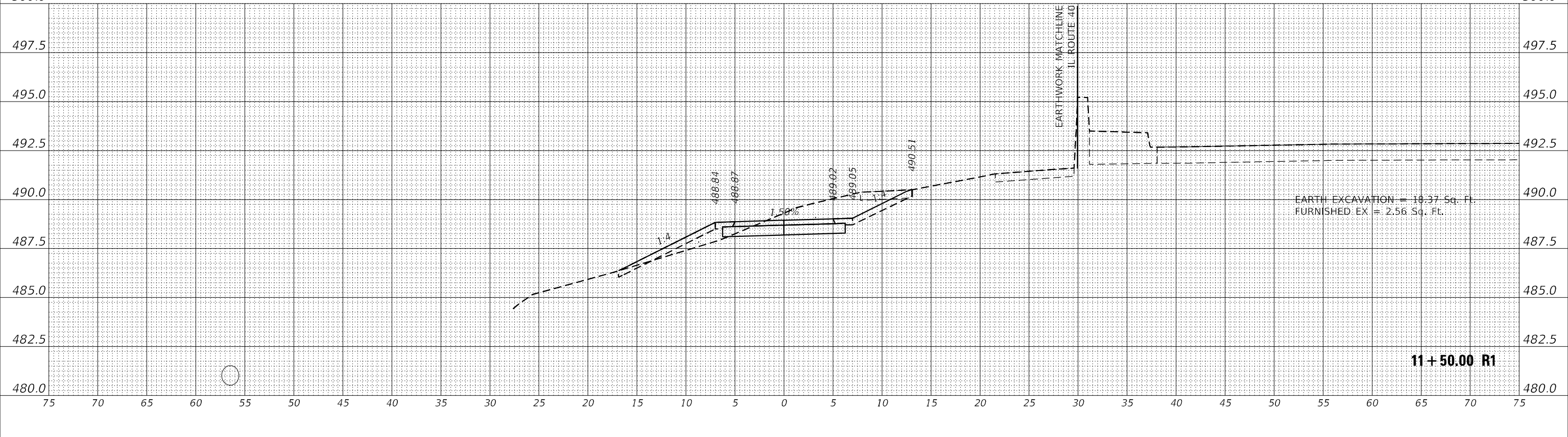
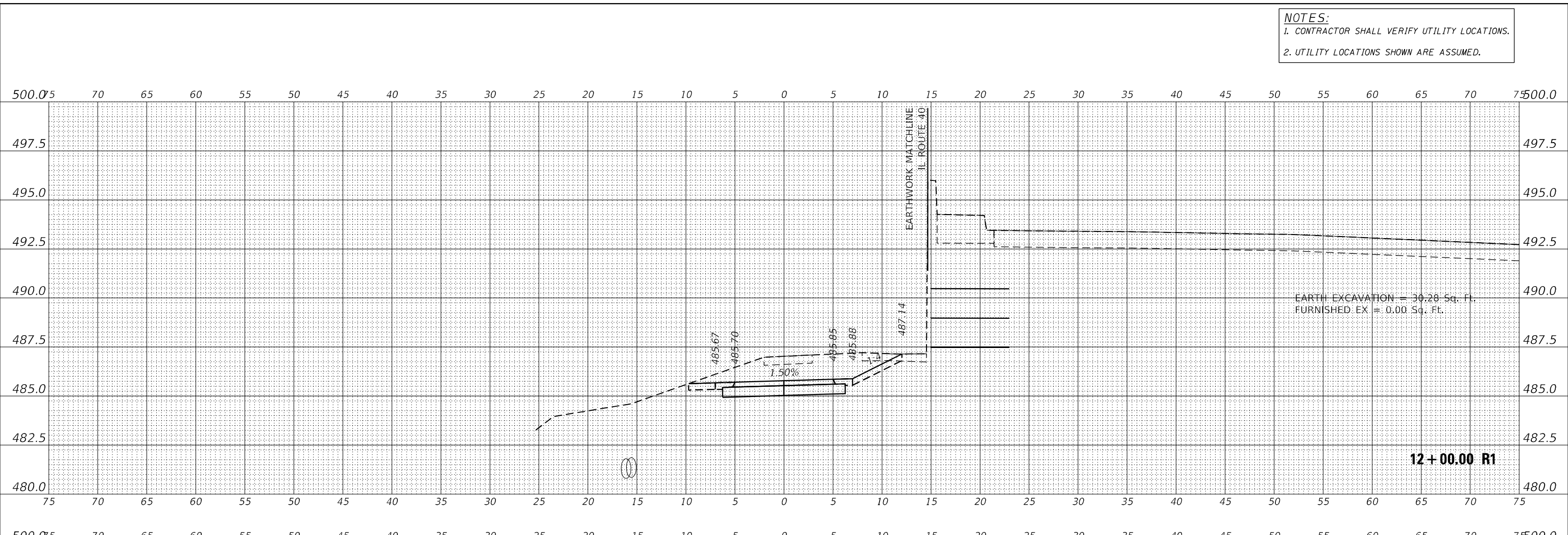
11+00.00 R1

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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| BOB MICHEL BRIDGE REHABILITATION CROSS SECTIONS - MULTI-USE PATH | | | |
| SCALE: 1" = 5' | SHEET 03 OF 07 SHEETS | STA. 11+50.00 R1 TO STA. 12+00.00 R1 | |

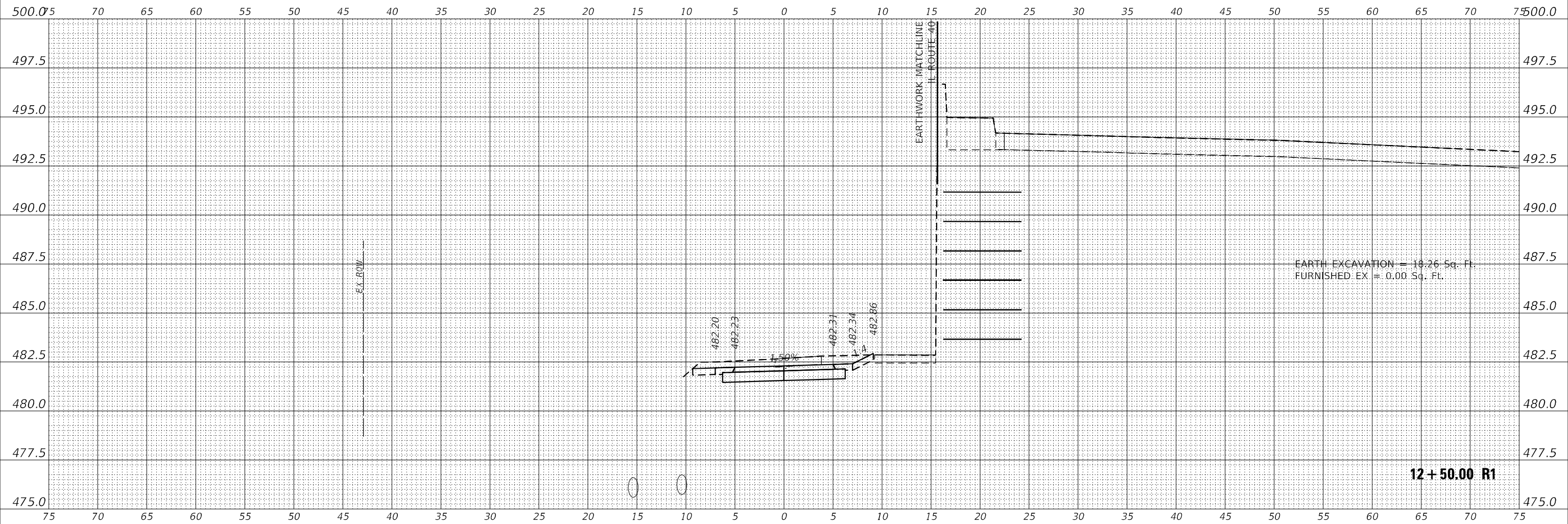
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| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY * | TOTAL SHEETS 286 | SHEET NO. 276 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT PEORIA / TAZEWELL | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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| FINAL SURVEY NO. | SURVEYED | BY | DATE |
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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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| BOB MICHEL BRIDGE REHABILITATION CROSS SECTIONS - MULTI-USE PATH | | |
| SCALE: 1" = 5' | SHEET 04 OF 07 SHEETS | STA. 12+50.00 R1 TO STA. 12+50.00 R1 |

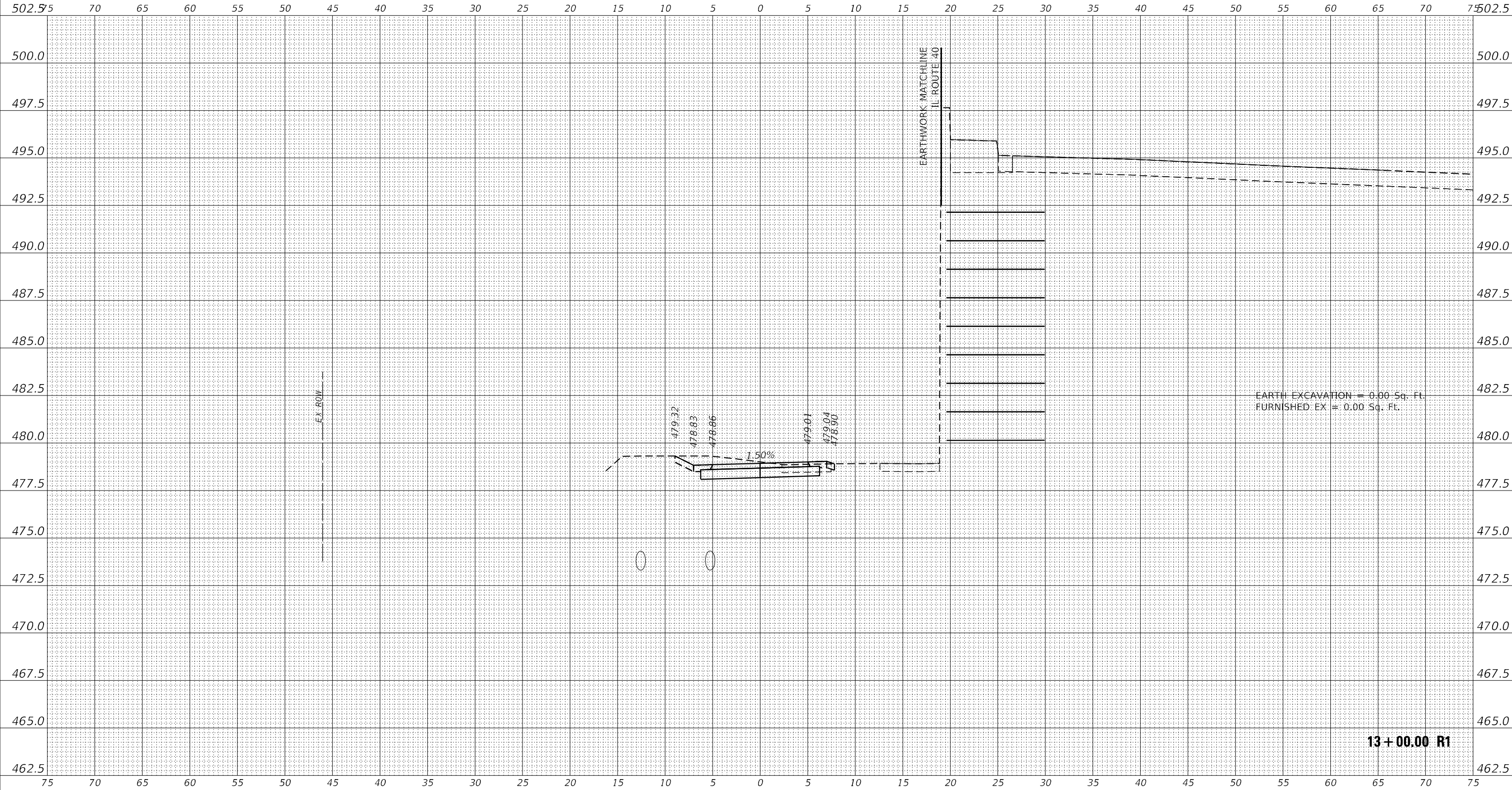
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|--------------------|-----------------------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 277 |
| CONTRACT NO. 68F38 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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13+ 00.00 R1



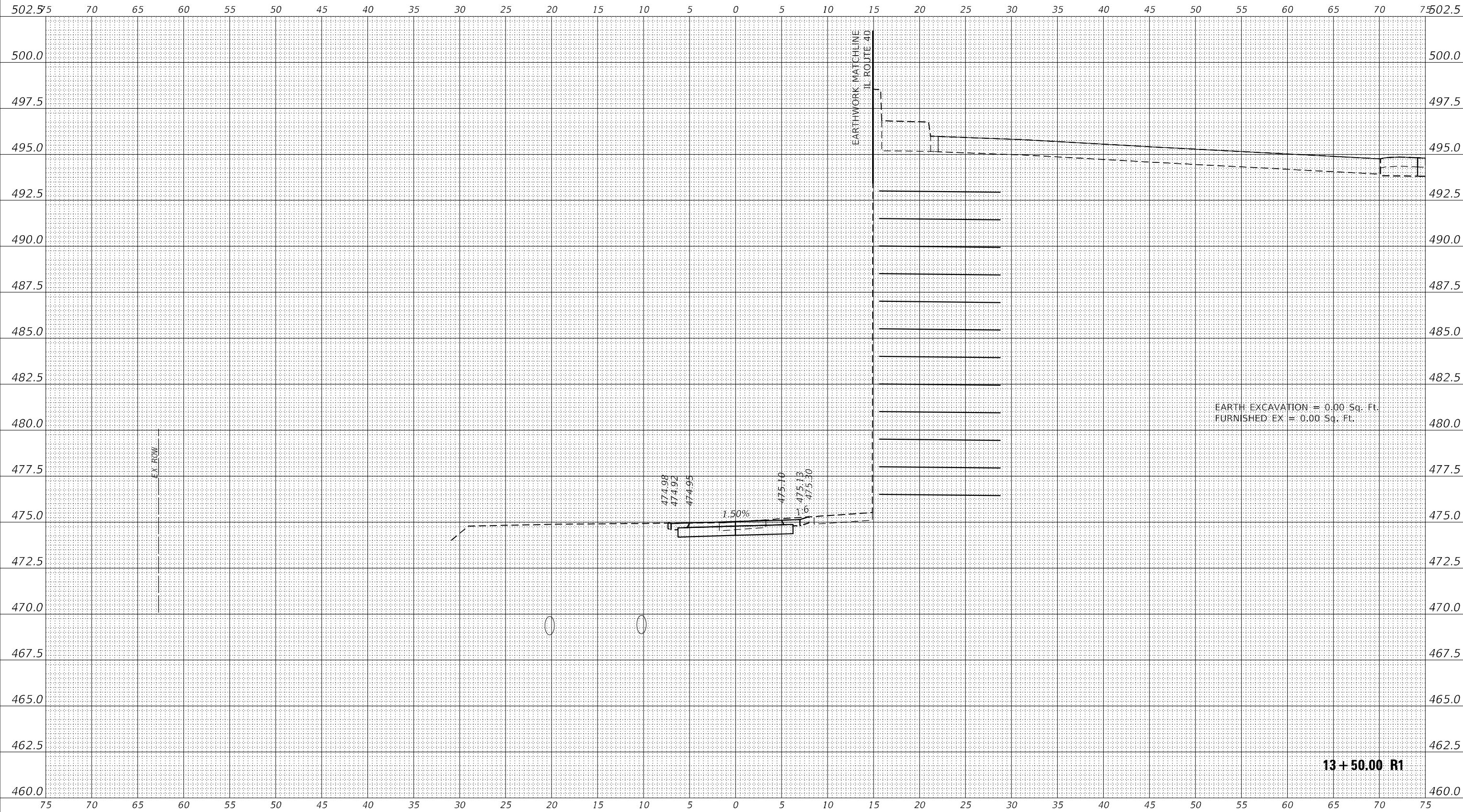
| | | |
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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | DRAWN - JPM | REVISED - |
| PLOT DATE = 8/24/2022 | CHECKED - JPA | REVISED - |
| | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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| BOB MICHEL BRIDGE REHABILITATION CROSS SECTIONS - MULTI-USE PATH | | |
| SCALE: 1" = 5' | SHEET 05 OF 07 SHEETS | STA. 13+00.00 R1 TO STA. 13+00.00 R1 |

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|--------------------|-------------------------------|----------|---------------------------|---------------|
| F.A.P. RTE. 404 | SECTION 50 (BDR, BJR, BRR, L) | COUNTY * | TOTAL SHEETS 286 | SHEET NO. 278 |
| CONTRACT NO. 68F38 | | | ILLINOIS FED. AID PROJECT | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.



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| FINAL SURVEY NO. | |
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| ORIGINAL SURVEY NO. | |
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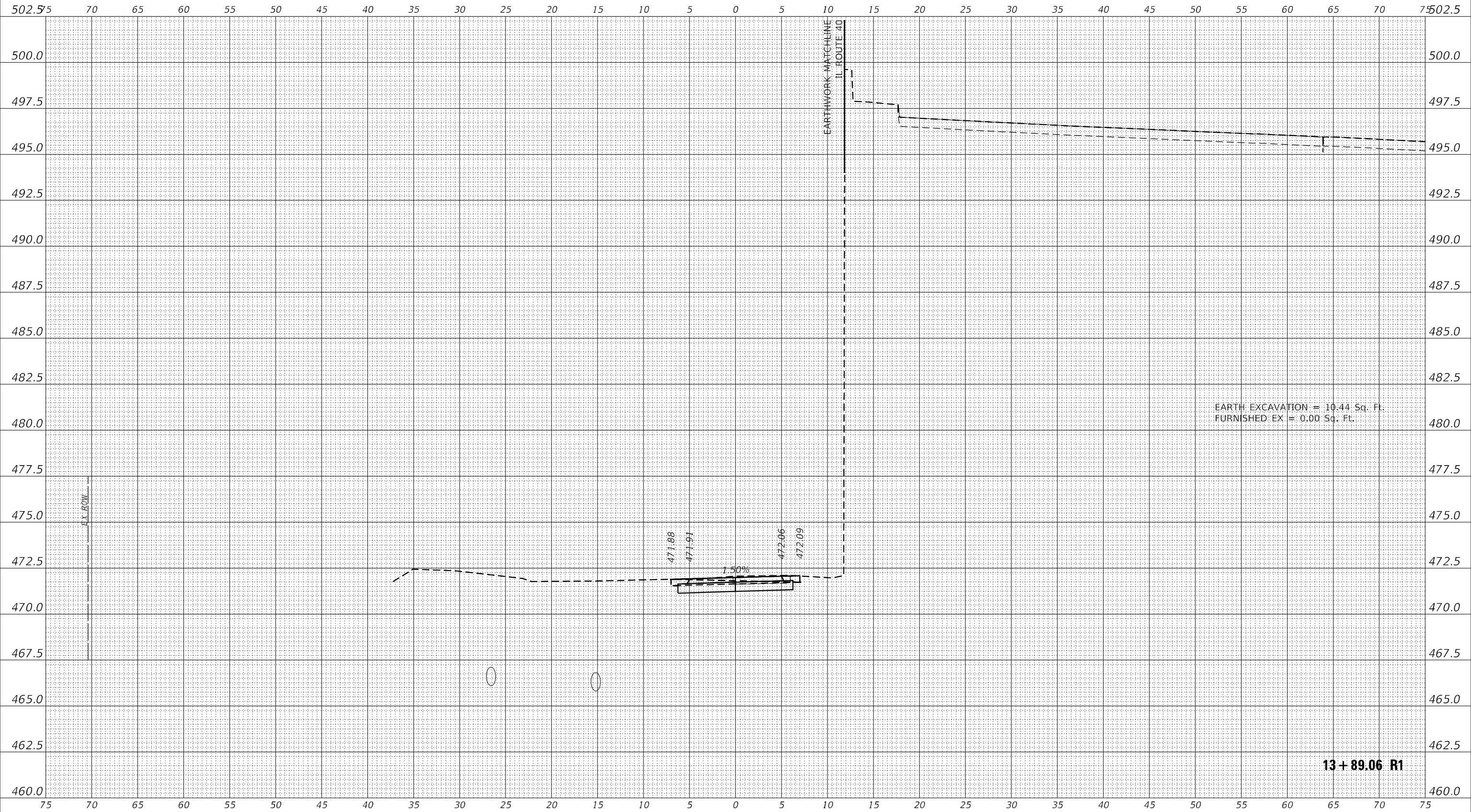
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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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| BOB MICHEL BRIDGE REHABILITATION CROSS SECTIONS - MULTI-USE PATH | | | |
| SCALE: 1" = 5' | SHEET 06 | OF 07 SHEETS | STA. 13+50.00 R1 TO STA. 13+50.00 R1 |

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 279 |
| CONTRACT NO. 68F38 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.



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| FINAL SURVEY NO. | SURVEYED | DATE |
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| | AREAS CHECKED | |

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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | DRAWN - JPM | REVISED - |
| PLOT DATE = 8/24/2022 | CHECKED - JPA | REVISED - |
| | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - MULTI-USE PATH**
 SCALE: 1" = 5'
 SHEET 07 OF 07 SHEETS
 STA. 13+89.06 R1 TO STA. 13+89.06 R1

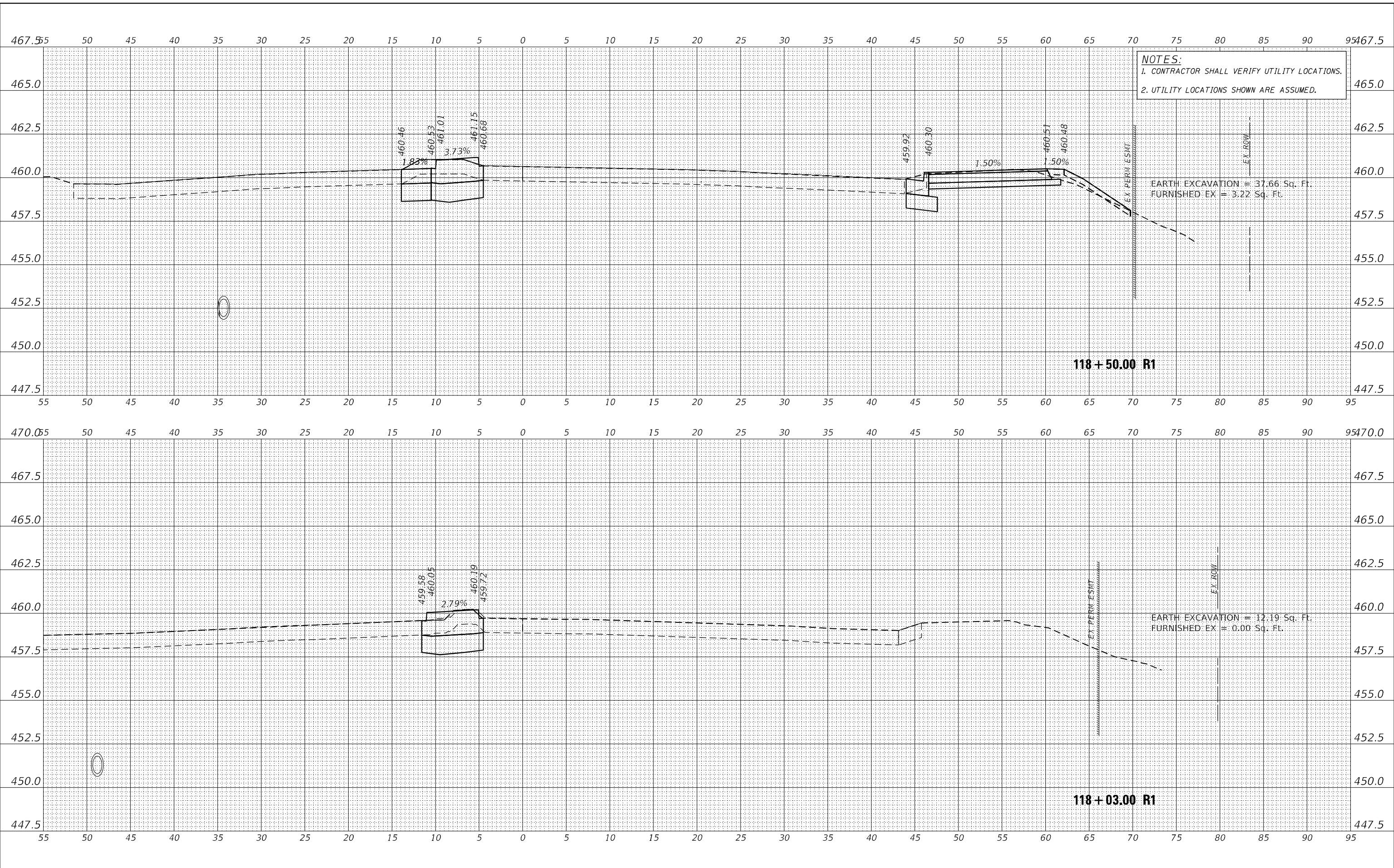
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------------------|------------------|--------------|-----------|
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 280 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS | | FED. AID PROJECT | | |

13+89.06 R1

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| | AREAS CHECKED |

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NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

EARTH EXCAVATION = 37.66 Sq. Ft.
 FURNISHED EX = 3.22 Sq. Ft.

EARTH EXCAVATION = 12.19 Sq. Ft.
 FURNISHED EX = 0.00 Sq. Ft.



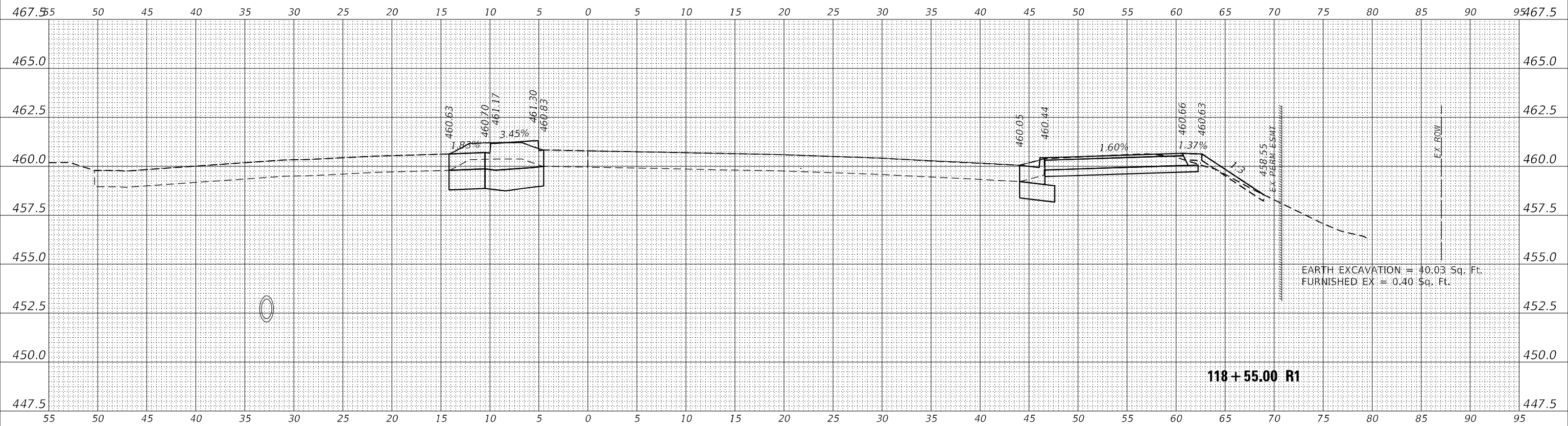
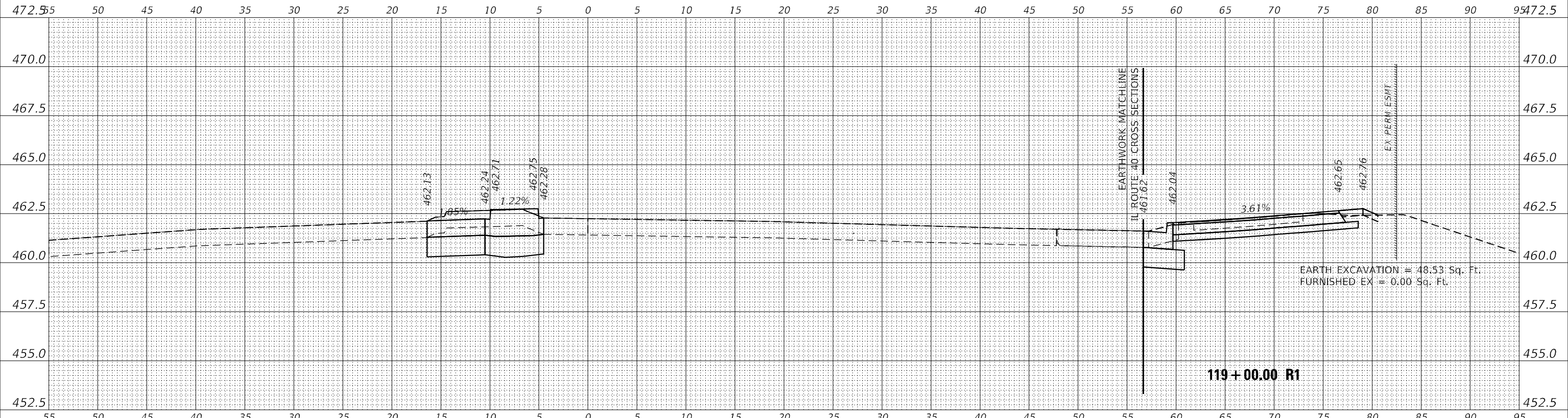
| | | |
|-----------------------------|------------------|-----------|
| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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|---|----------|--------------|--|
| BOB MICHEL BRIDGE REHABILITATION CROSS SECTIONS - RIVER ROAD | | | |
| SCALE: 1" = 5' | SHEET 01 | OF 06 SHEETS | STA. 118+03.00 R1 TO STA. 118+50.00 R1 |

| | | | | |
|--------------|-----------------------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 281 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS | | FED. AID PROJECT | | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.



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| DATE | |
| BY | |
| FINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |
| | AREAS CHECKED |

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|-----------------|---------------|
| DATE | |
| BY | |
| ORIGINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |
| | AREAS CHECKED |

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| | | |
|-----------------------------|------------------|-----------|
| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

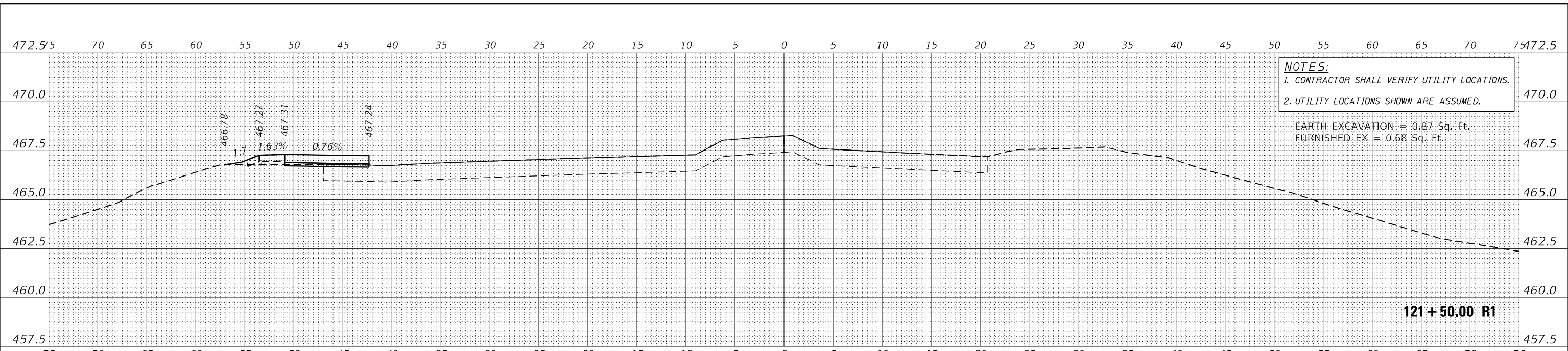
| | | | |
|---|-----------------------|--|--|
| BOB MICHEL BRIDGE REHABILITATION CROSS SECTIONS - RIVER ROAD | | | |
| SCALE: 1" = 5' | SHEET 02 OF 06 SHEETS | STA. 118+55.00 R1 TO STA. 119+00.00 R1 | |

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|---------------------------|-----------------------|--------|--------------|-------------------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 282 |
| CONTRACT NO. | | | | 68F38 |
| ILLINOIS FED. AID PROJECT | | | | PEORIA / TAZEWELL |

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| DATE | |
| BY | |
| FINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |

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|-----------------|---------------|
| DATE | |
| BY | |
| ORIGINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMPLATE |
| | AREAS CHECKED |

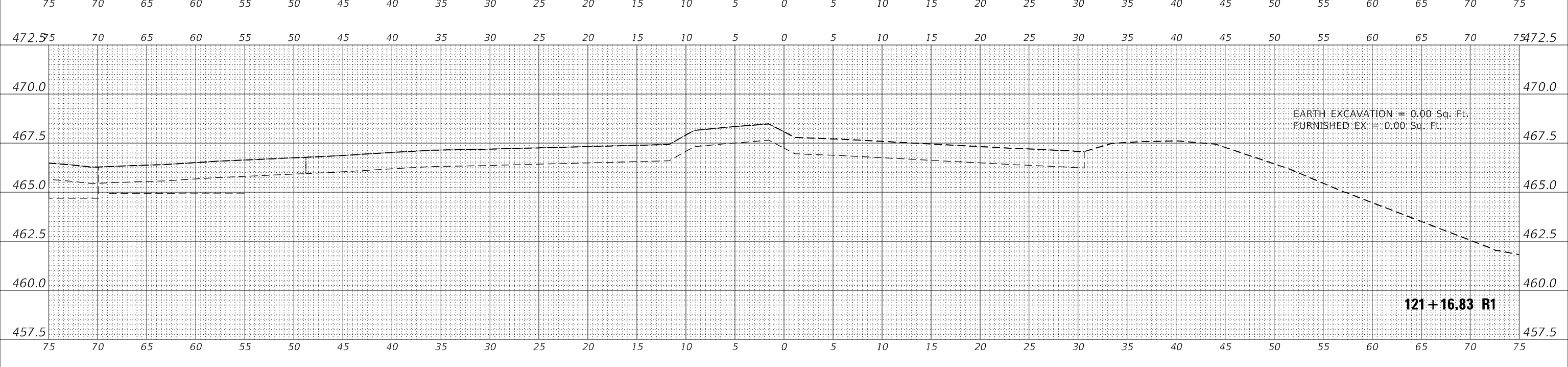
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NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

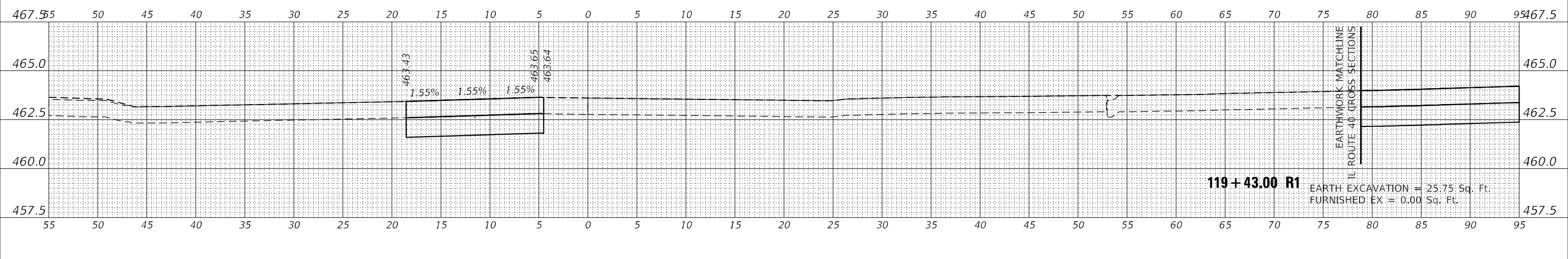
EARTH EXCAVATION = 0.87 Sq. Ft.
 FURNISHED EX = 0.68 Sq. Ft.

121 + 50.00 R1



EARTH EXCAVATION = 0.00 Sq. Ft.
 FURNISHED EX = 0.00 Sq. Ft.

121 + 16.83 R1



EARTH EXCAVATION = 25.75 Sq. Ft.
 FURNISHED EX = 0.00 Sq. Ft.

119 + 43.00 R1

EARTHWORK MATCHLINE
IL ROUTE 40 CROSS SECTIONS



| | | |
|-----------------------------|------------------|-----------|
| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - TRACTOR DRIVE**

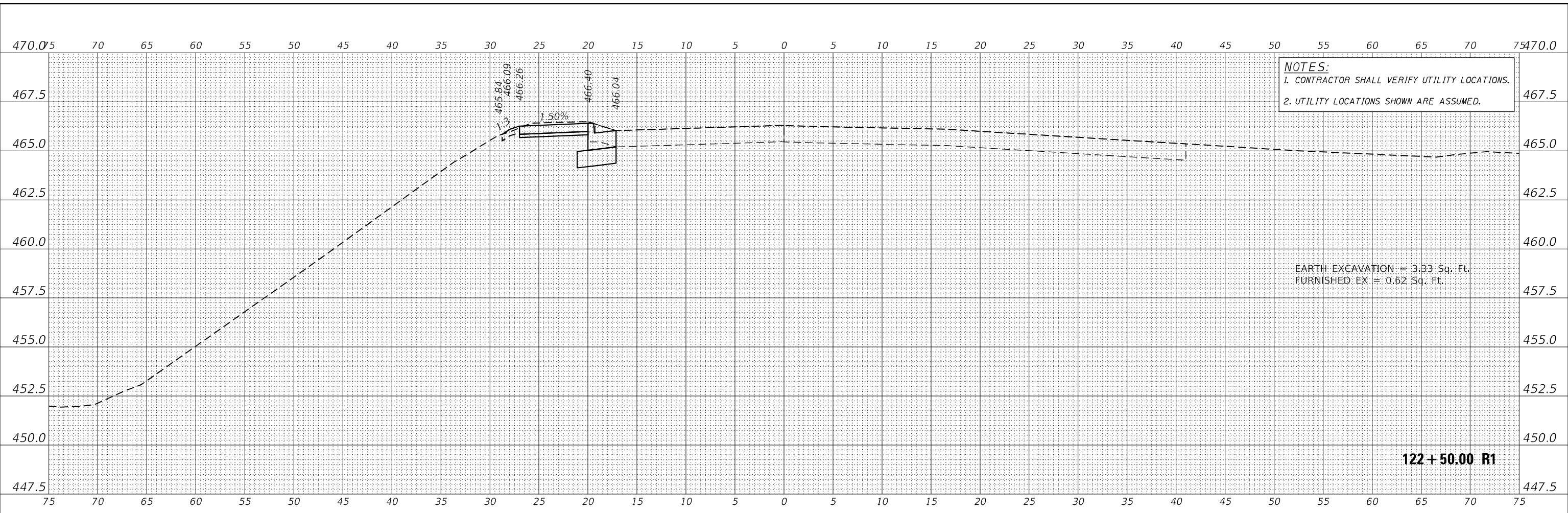
SCALE: 1" = 5' SHEET 03 OF 06 SHEETS STA. 119+43.00 R1 TO STA. 121+50.00 R1

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|--------------|-----------------------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 283 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS | | FED. AID PROJECT | | |

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| FINAL SURVEY | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| NO. | TEMPLATE | |
| | AREAS CHECKED | |
| | AREAS CHECKED | |

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| ORIGINAL SURVEY | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| NO. | TEMPLATE | |
| | AREAS CHECKED | |
| | AREAS CHECKED | |

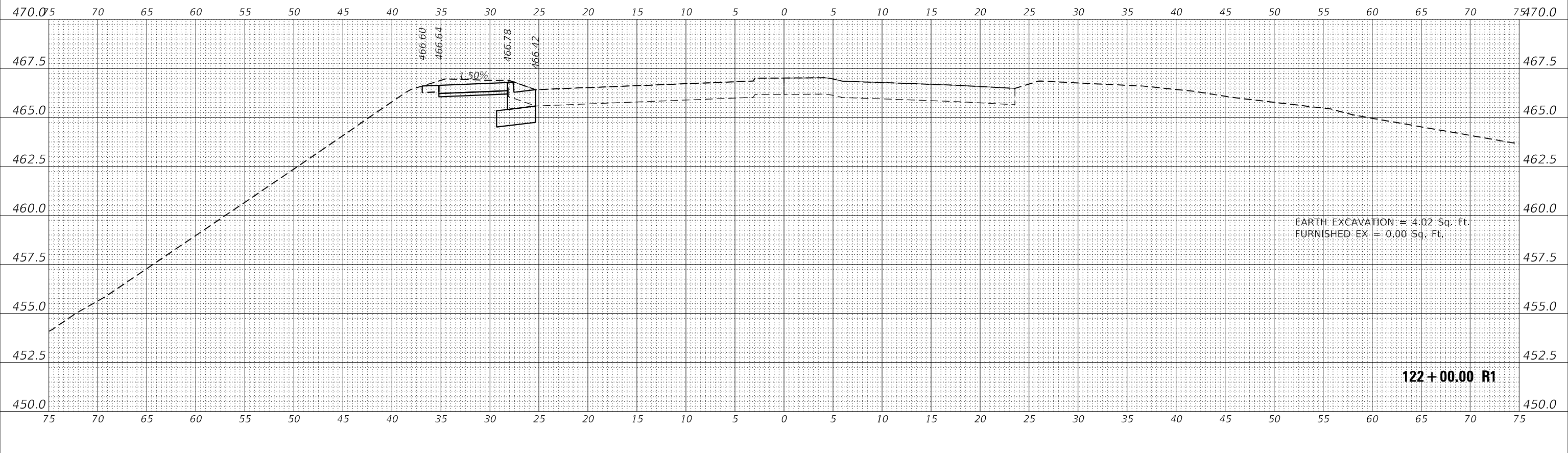
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NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

EARTH EXCAVATION = 3.33 Sq. Ft.
 FURNISHED EX = 0.62 Sq. Ft.

122+50.00 R1



EARTH EXCAVATION = 4.02 Sq. Ft.
 FURNISHED EX = 0.00 Sq. Ft.

122+00.00 R1



| | | |
|-----------------------------|------------------|-----------|
| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - TRACTOR DRIVE**

SCALE: 1" = 5' SHEET 04 OF 06 SHEETS STA. 122+00.00 R1 TO STA. 122+50.00 R1

| | | | | |
|--------------|-----------------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 284 |
| CONTRACT NO. | | | 68F38 | |

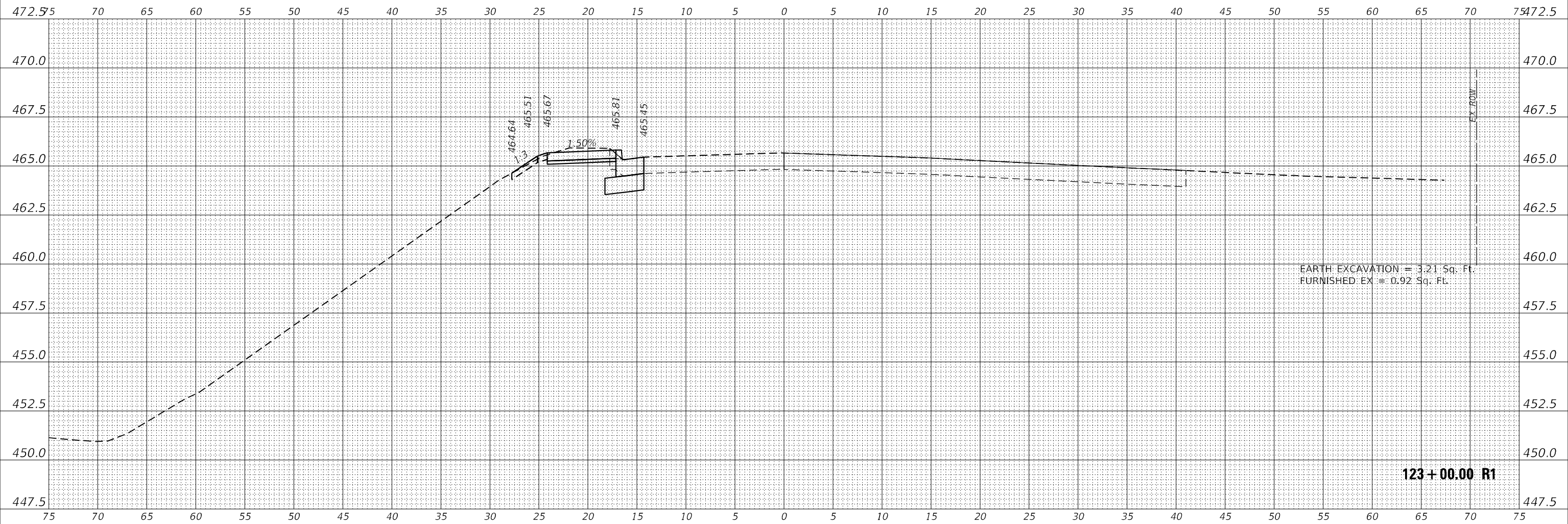
ILLINOIS FED. AID PROJECT PEORIA / TAZEVELL

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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| FINAL SURVEY NO. | SURVEYED | BY | DATE |
| NOTE BOOK | PLOTTED | | |
| AREAS CHECKED | TEMPLATE | | |
| | AREAS CHECKED | | |

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|---------------------|---------------|----|------|
| ORIGINAL SURVEY NO. | SURVEYED | BY | DATE |
| NOTE BOOK | PLOTTED | | |
| AREAS CHECKED | TEMPLATE | | |
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DATE PLOTTED = 8/24/2022 1:29:41 PM
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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | DRAWN - JPM | REVISED - |
| PLOT DATE = 8/24/2022 | CHECKED - JPA | REVISED - |
| | DATE - 8/24/2022 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - TRACTOR DRIVE**

SCALE: 1" = 5' SHEET 05 OF 06 SHEETS STA. 123+00.00 R1 TO STA. 123+00.00 R1

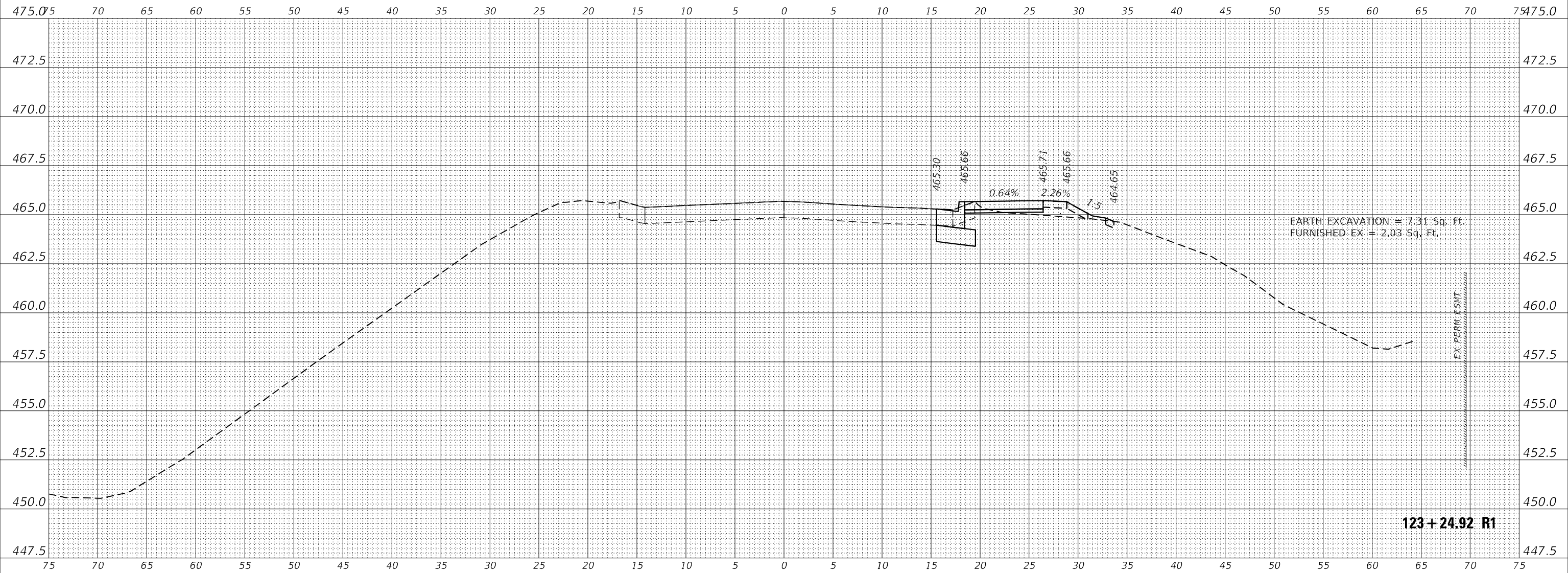
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|---------------------------|-----------------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 285 |
| CONTRACT NO. | | | 68F38 | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTES:
 1. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS.
 2. UTILITY LOCATIONS SHOWN ARE ASSUMED.

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| FINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | |
| | TEMPLATE | |
| | AREAS CHECKED | |

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| ORIGINAL SURVEY NO. | SURVEYED | DATE |
| | PLOTTED | |
| | TEMPLATE | |
| | AREAS CHECKED | |

DATE PLOTTED = 8/24/2022 1:29:41 PM
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123+24.92 R1



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| USER NAME = Roadway | DESIGNED - JPM | REVISED - |
| | DRAWN - JPM | REVISED - |
| PLOT SCALE = 10,0000' / in. | CHECKED - JPA | REVISED - |
| PLOT DATE = 8/24/2022 | DATE - 8/24/2022 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BOB MICHEL BRIDGE REHABILITATION
 CROSS SECTIONS - TRACTOR DRIVE

SCALE: 1" = 5' SHEET 06 OF 06 SHEETS STA. 123+24.92 R1 TO STA. 123+24.92 R1

| | | | | |
|--------------|-----------------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 404 | 50 (BDR, BJR, BRR, L) | * | 286 | 286 |
| CONTRACT NO. | | | 68F38 | |

ILLINOIS FED. AID PROJECT PEORIA / TAZEWELL