



| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| 7                   | ILL   | 143       | 1927        | 3         | 66           |

Route 83, Sec. 123 Mercer County

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| 7                   | ILL   | 143       | 1927        | 3         | 66           |

SB.I Route 83, Sec. 123A, Mercer Co.

# FOR INFORMATION ONLY

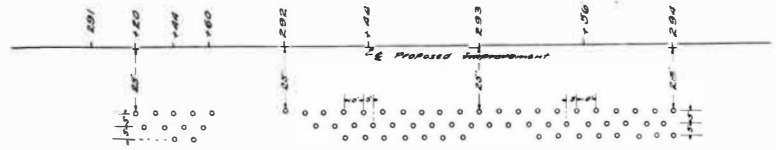
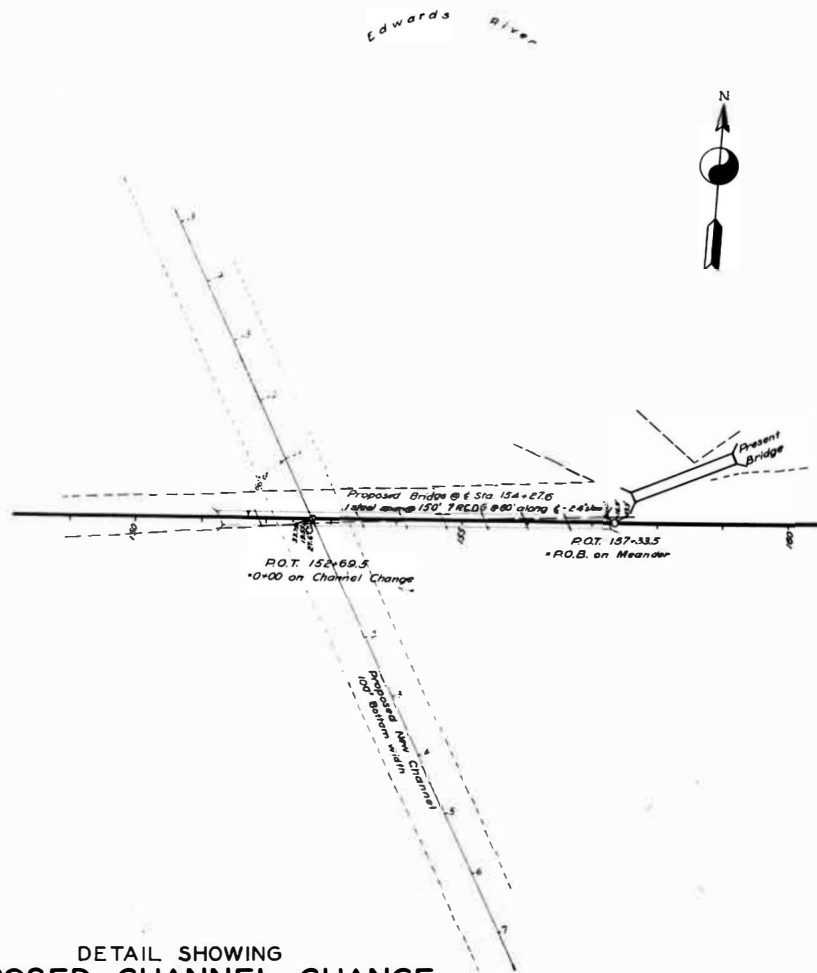


Diagram showing location of holes to be drilled for piling between Sta 291+20 and Sta 294+00

ROUTE 83  
SECTION 123-A  
MERCER COUNTY

DETAIL SHOWING  
PROPOSED CHANNEL CHANGE  
OF  
EDWARDS RIVER  
STATE BOND ISSUE  
ROUTE 83 SEC. 123-A  
MERCER COUNTY

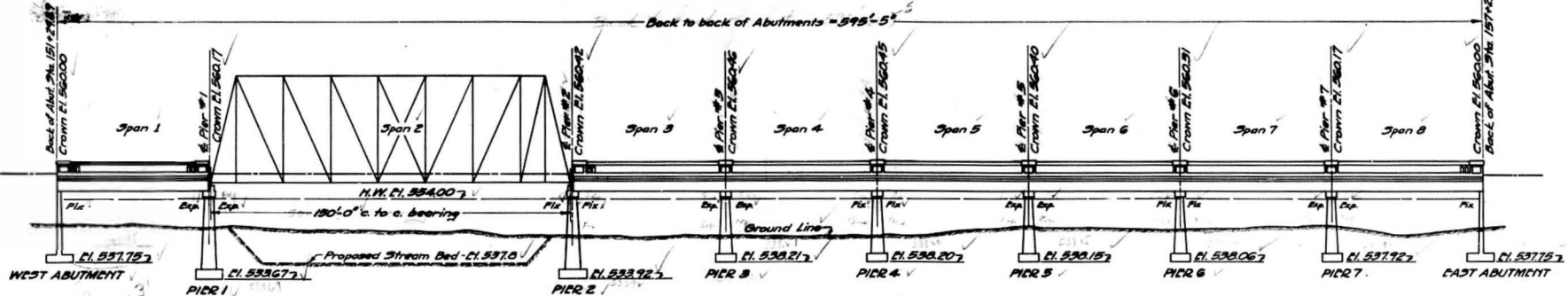
D.M. #14 - Top of triangular sole plate  
 N.W. corner bridge Elev. 553.07  
 Existing structure - Whipple Truss 186-8 Span  
 14' roadway to be left in place.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

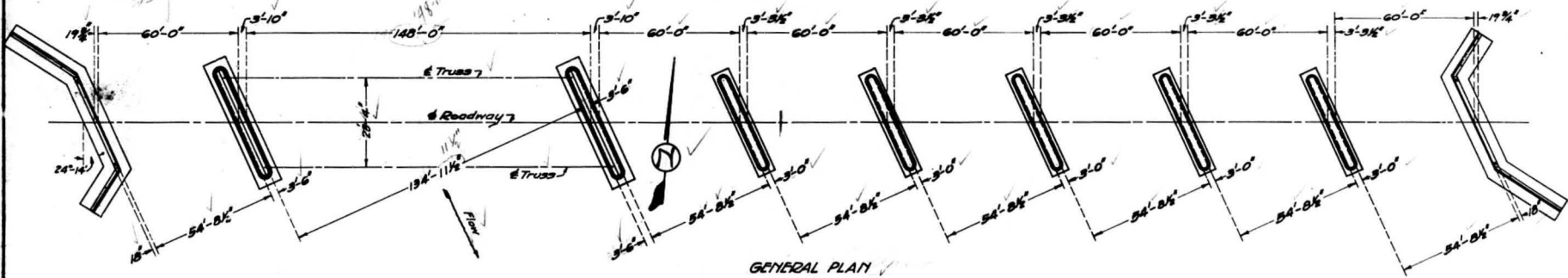
| DIST. NO. | STATE | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
|-----------|-------|-------------|------|-----------|--------------|
| 7         | Ill.  | 143         | 1927 | 59        | 66           |

SHEET NO. 1  
 6 SHEETS

S.B.I. Route 83, Sec. 8-123 B,C, Mercer Co.



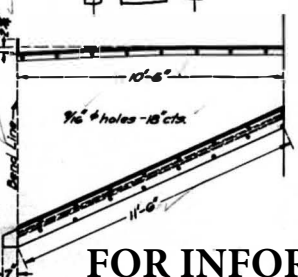
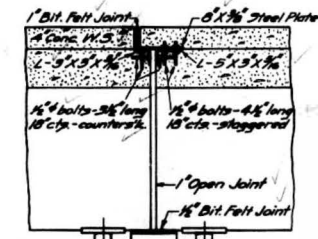
GENERAL ELEVATION



GENERAL PLAN

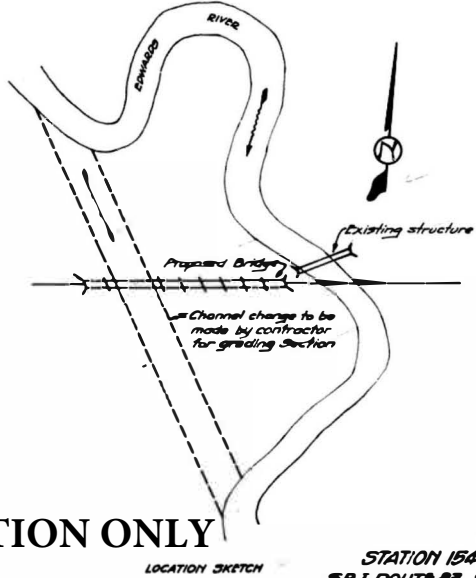
TOTAL BILL OF MATERIAL

| Item               | Concrete | Abut.  | Piers | Retal.<br>Sec. 123-B | Steel Super.<br>Sec. 123-C |
|--------------------|----------|--------|-------|----------------------|----------------------------|
| Class A Concrete   | Cu. Yds  | 6421   | 2774  | 2763                 | 11680                      |
| Class B Concrete   | Cu. Yds  |        |       | 2785                 | 2785                       |
| Class X Concrete   | Cu. Yds  | 645    |       |                      | 640                        |
| Reinforcing Steel  | Lbs      | 221680 | 23080 | 20800                | 271770                     |
| 10 Ton Unit. Piles | Lin. Ft  |        | 780   |                      | 780                        |
| 12 Ton Unit. Piles | Lin. Ft  |        | 360   |                      | 360                        |
| 18 Ton Unit. Piles | Lin. Ft  |        | 1160  | 4120                 | 5280                       |
| Structural Steel   | Lbs      | 2015   |       | 2015                 | 19680                      |
| Beams & Plates     | Lbs      | 3260   |       |                      | 3260                       |
| Name Plate         |          |        |       |                      | 1                          |
| 4" RCC. Pavement   | Sq. Yds  | 10387  |       |                      | 10387                      |



FOR INFORMATION ONLY

EXPANSION DETAILS AT PIERS 3, 5 & 7



LOCATION SKETCH

STATION 154 + 27.6  
 S.B.I. ROUTE 83 SEC. 8-123 B & C  
 MERCER COUNTY

COMPUTED BY *J.P. Robinson*  
 CHECKED BY *J.P. Robinson*  
 DRAWN BY *J.P. Robinson*  
 CHECKED BY *J.P. Robinson*  
 ASSEMBLED BY *J.P. Robinson*  
 CHECKED BY *J.P. Robinson*

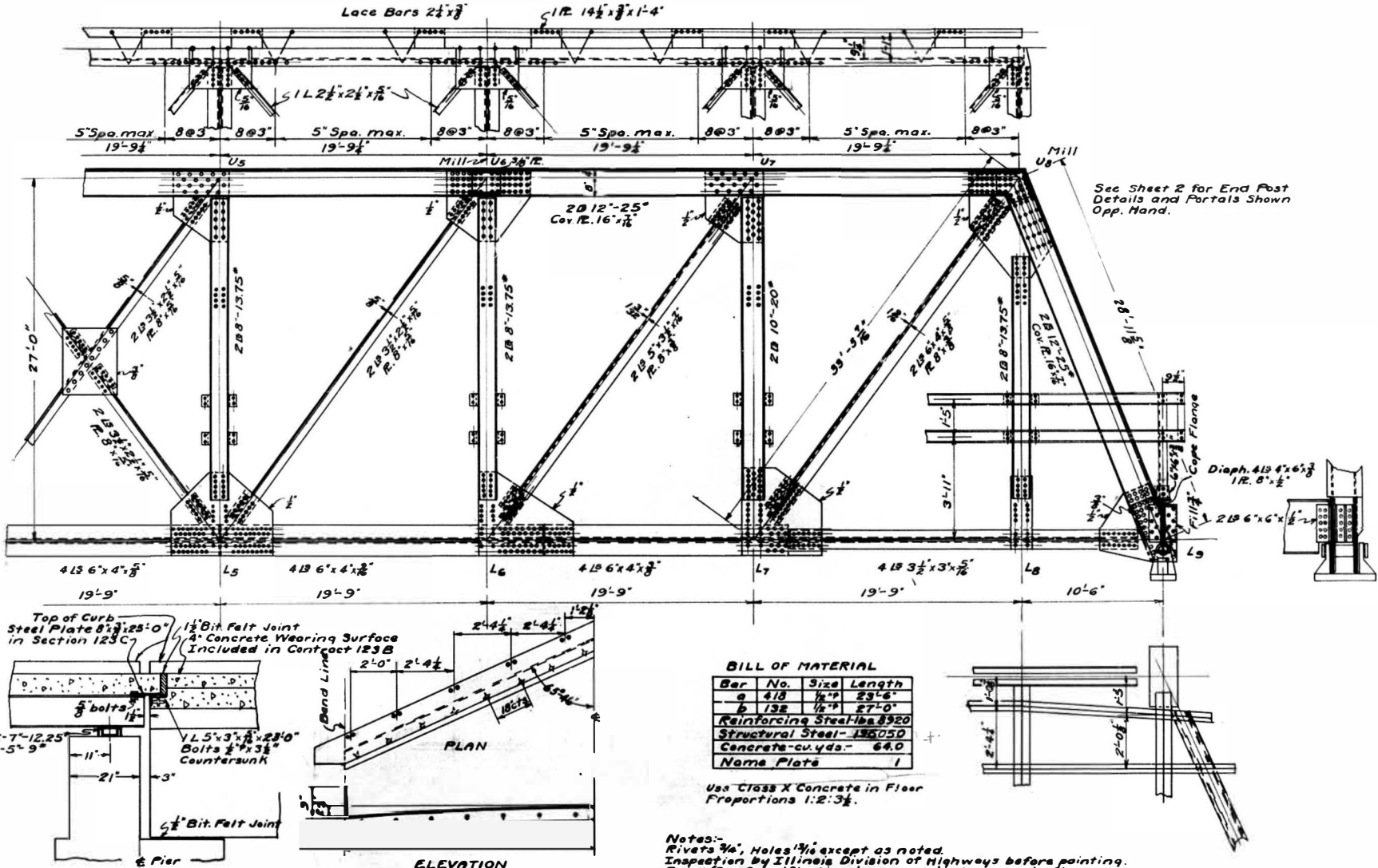
EXAMINED BY *W.A. Adams* 5-27  
 PASSED BY *W.A. Adams*  
 APPROVED BY *J.P. Robinson*  
 CHIEF HIGHWAY ENGINEER

— ORDER OF WORK —  
 1. Construct abutments first so that the backfills may be completed by the grading contractor.  
 2. Construct piers 1 and 2 next in order that the contractor for Section 123-C may commence work three weeks after their completion.



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

Sheet 3  
6 Sheets  
S.B.I. Route 83, Section 8-23-80 Mercer Co.



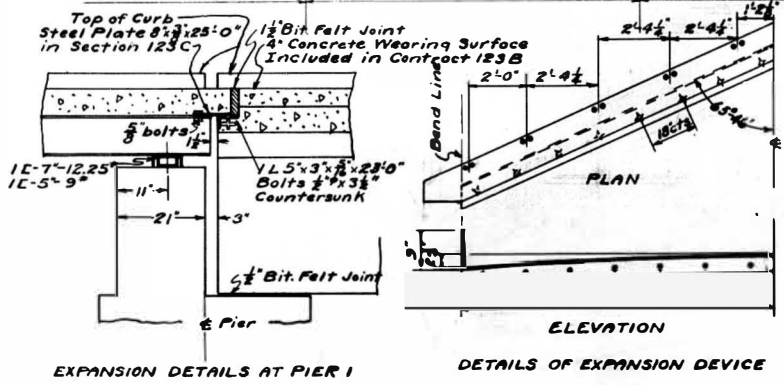
See Sheet 2 for End Post Details and Portals Shown Opp. Hand.

**BILL OF MATERIAL**

| Bar No.                     | Size     | Length |
|-----------------------------|----------|--------|
| a                           | 418 1/2" | 23'-6" |
| b                           | 132 1/2" | 27'-0" |
| Reinforcing Steel-lbs. 8920 |          |        |
| Structural Steel-126050     |          |        |
| Concrete-cu.yds.- 64.0      |          |        |
| Name Plates 1               |          |        |

Use Class X Concrete in Floor Proportions 1:2:3 1/2.

**Notes:-**  
Rivets 3/4", Holes 1 1/8" except as noted.  
Inspection by Illinois Division of Highways before painting.  
Paint (See Specifications) one coat in shop; two in field.  
Field Connections Riveted except Strainers and Rail.  
Concrete Floor shall be given a Smooth Finish according to the Specifications for Finishing Surface of Floor Slabs on Concrete Bridges.



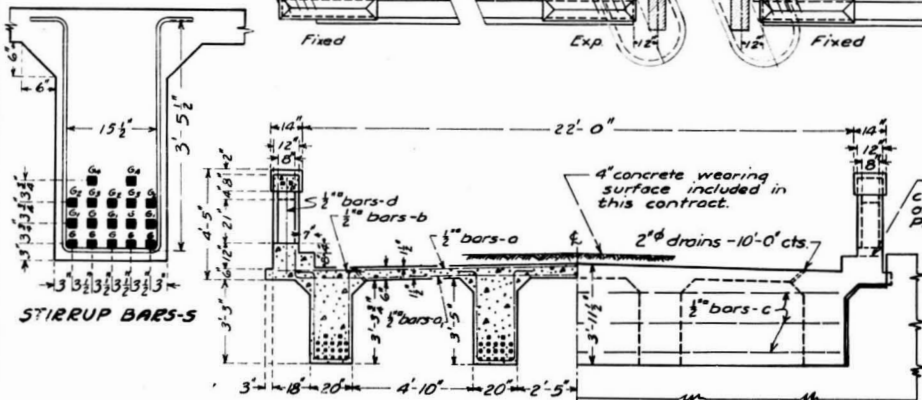
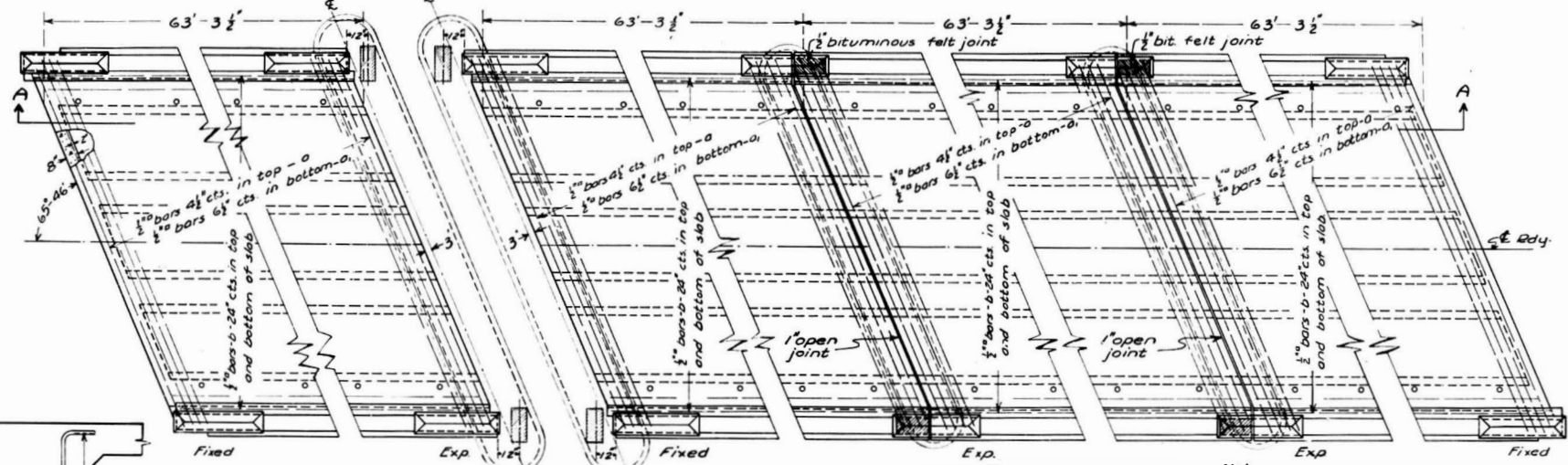
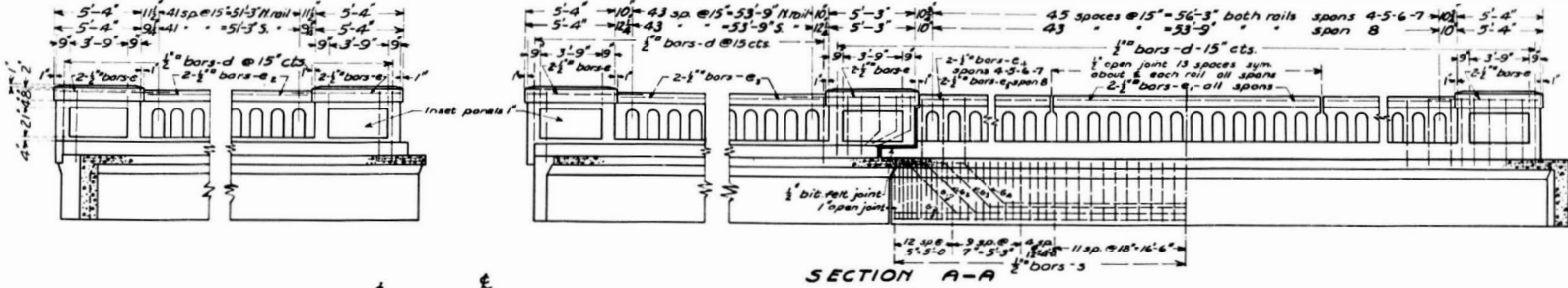
|          |                         |                         |
|----------|-------------------------|-------------------------|
| STANDARD | COMPUTED - J.W. Shubert | EXAMINED - March 5 1927 |
|          | CHECKED - [Signature]   | DESIGNED - [Signature]  |
|          | DRAWN - [Signature]     | PERMITTED - [Signature] |
|          | CHECKED - [Signature]   | APPROVED - [Signature]  |
| SPECIAL  | ASSEMBLED - [Signature] |                         |
|          | CHECKED - [Signature]   |                         |

**FOR INFORMATION ONLY**

STATION 154+27.6  
S.B.I. ROUTE 83  
SECTION 123C. MERCER CO.



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS



PLAN

TOTAL BILL OF MATERIAL

| Bar | No.  | Size   | Length |
|-----|------|--------|--------|
| c   | 1078 | 1"     | 26'-6" |
| d   | 749  | 1"     | 27'-6" |
| b   | 483  | 1"     | 22'-6" |
| c   | 6    | 1"     | 22'-6" |
| d   | 750  | 1"     | 4'-0"  |
| e   | 36   | 1"     | 7'-6"  |
| e   | 28   | 1"     | 18'-0" |
| e   | 16   | 1"     | 19'-6" |
| e   | 32   | 1"     | 20'-6" |
| g   | 196  | 1 1/2" | 62'-6" |
| g   | 84   | 1 1/2" | 62'-0" |
| g   | 84   | 1 1/2" | 59'-0" |
| g   | 56   | 1 1/2" | 55'-6" |
| g   | 56   | 1 1/2" | 51'-0" |
| s   | 2044 | 1/2"   | 9'-0"  |

Note  
1" open joint in slab at exp ends  
construction joint in slab at fixed ends

STEEL PLATES  
56 required

C.I. ROCKERS  
28 required

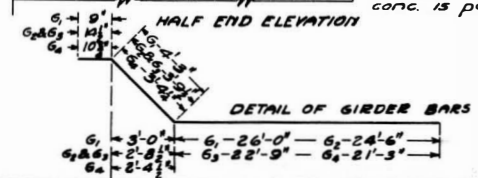
Surface adjacent to rockers to be planed.

Rockers and plates shall be given two coats of sublimed blue lead point.

|           |                   |
|-----------|-------------------|
| COMPUTED  | <i>R.P. Ottum</i> |
| CHECKED   | <i>R.P. Ottum</i> |
| DRAWN     | <i>R.P. Ottum</i> |
| CHECKED   | <i>R.P. Ottum</i> |
| ASSEMBLED | <i>R.P. Ottum</i> |
| CHECKED   | <i>R.P. Ottum</i> |

EXAMINED *Maury S. ...*  
ENGINEER

APPROVED *Frank ...*  
CHIEF HIGHWAY ENGINEER

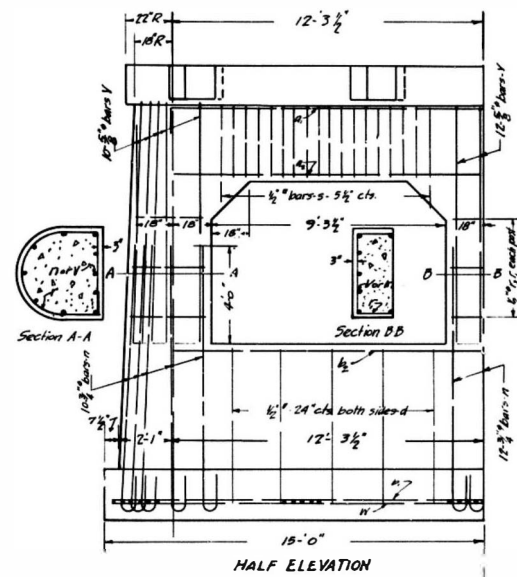
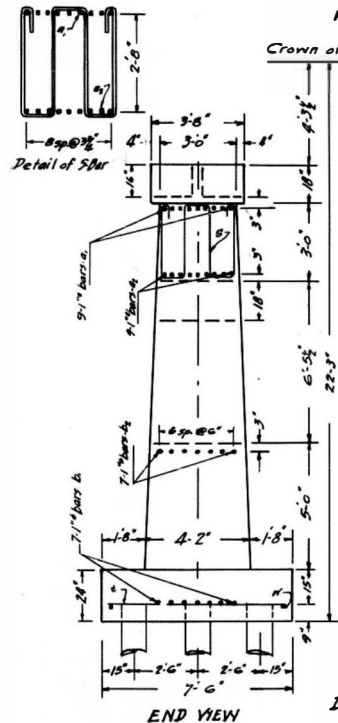
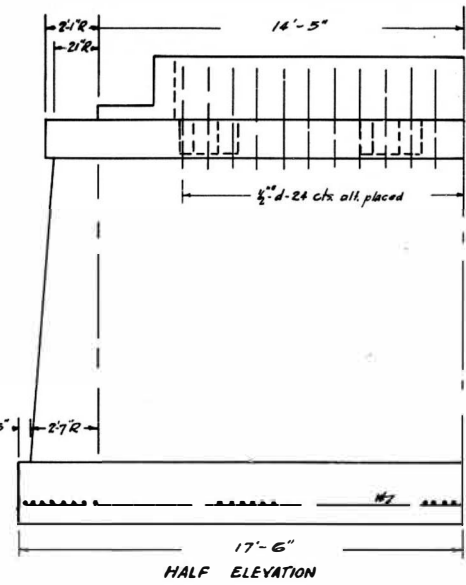
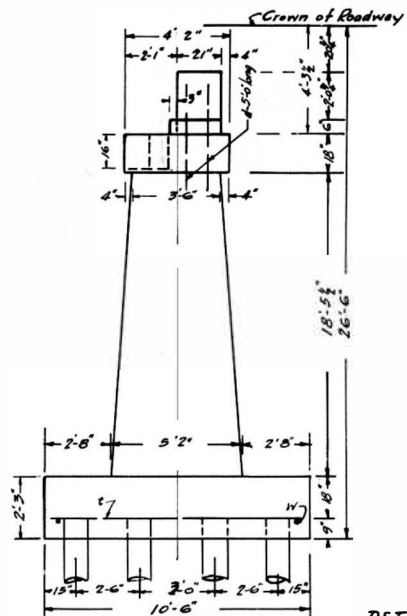
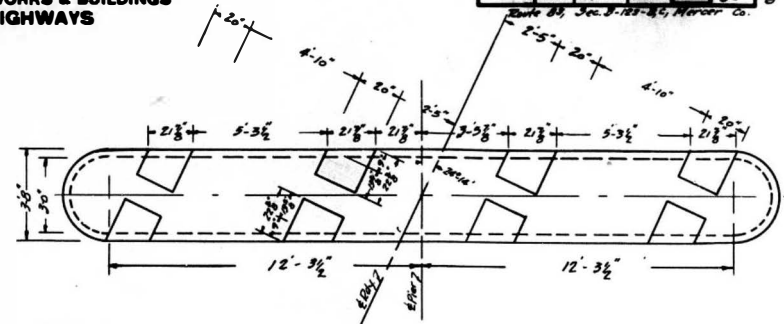
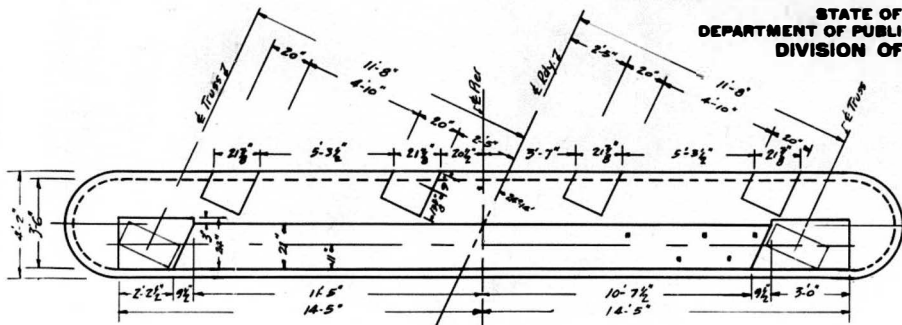


FOR INFORMATION ONLY

STATION 154+27.6  
STATE BOND ISSUE-ROUTE 83  
SECTION 123-B - MERCER CO

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

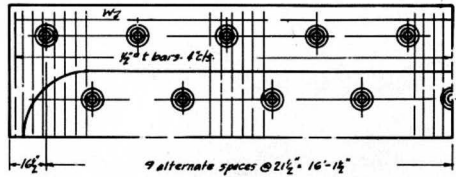
Sheet No. 5  
of 6 Sheets  
Scale 3/4" = 1'-0"



**BILL OF MATERIAL  
PIERS 1 & 2**

| BAD | NO  | SIZE | LENGTH |
|-----|-----|------|--------|
| I   | 210 | 1/2" | 10'-3" |
| IV  | 8   | 1/2" | 16'-6" |
| d   | 46  | 1/2" | 5'-0"  |

Reinforcing Steel - Lbs. 2180  
Class A Concrete Cu. Yds. 27.5  
15 Ton Untr. Piers - Lths. 1820



**BILL OF MATERIAL  
PIERS 3, 4, 5, 6 & 7**

| BAD | NO  | SIZE | LENGTH |
|-----|-----|------|--------|
| 2   | 48  | 1/2" | 28'-6" |
| 2a  | 48  | 1/2" | 28'-6" |
| b   | 38  | 1/2" | 24'-0" |
| 2b  | 33  | 1/2" | 24'-0" |
| 3   | 80  | 1/2" | 7'-3"  |
| 3a  | 100 | 1/2" | 12'-0" |
| V   | 100 | 1/2" | 0'-0"  |
| F   | 30  | 1/2" | 18'-0" |
| G   | 10  | 1/2" | 18'-0" |
| S   | 180 | 1/2" | 18'-0" |
| IV  | 10  | 1/2" | 24'-0" |
| d   | 100 | 1/2" | 6'-0"  |

Reinforcing Steel - Lbs. 27880  
Class A Concrete - Cu. Yds. 126.5  
15 Ton Untr. Piers - Lths. 2600



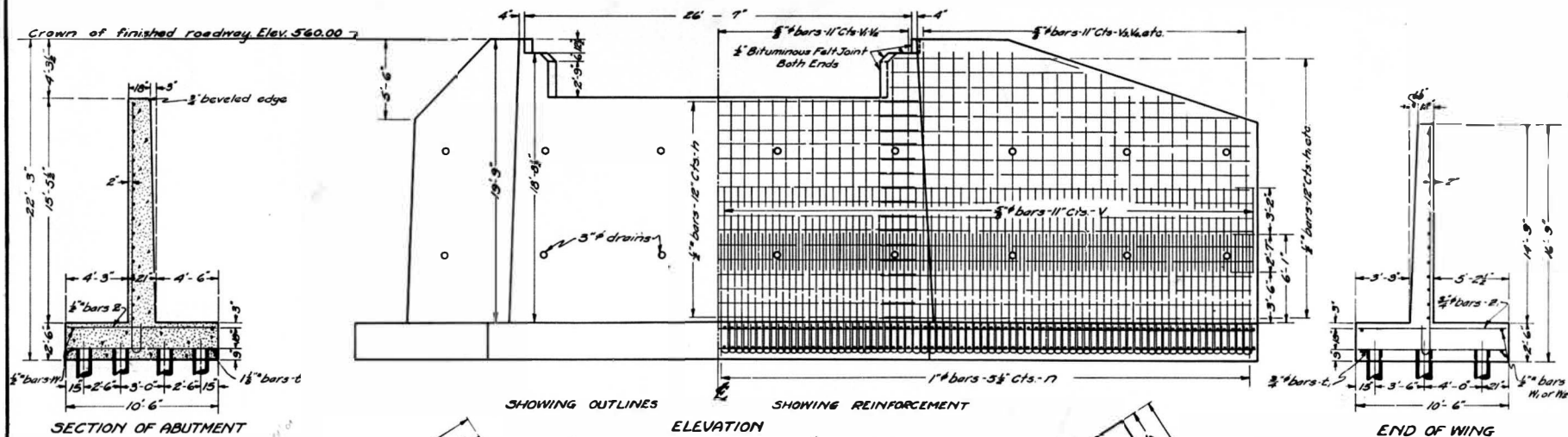
19 Ton untreated piles 10" tip 12" butt  
1206 reas - estimated length 410 feet - for 7 piers  
Class A concrete shall be used for piers  
3, 4, 5, 6 & 7 - Proportions 1:2:3 1/2  
Class B concrete shall be used for piers  
1 & 2 - Proportions 1:3:3  
All reinforcing steel shall be securely wired  
in place before concrete is poured

| STANDARD | COMPUTED           | EXAMINED            |
|----------|--------------------|---------------------|
| CHECKED  | <i>L. J. Clark</i> | <i>March 5 1927</i> |
| DRAWN    | <i>P. J. ...</i>   | <i>H. T. ...</i>    |
| CHECKED  | <i>L. J. Clark</i> | <i>...</i>          |
| APPROVED | <i>...</i>         | <i>...</i>          |
| CHECKED  | <i>...</i>         | <i>...</i>          |

B.M. #14 Top of triangular sole plate  
NW corner of bridge. Elev. 555.03

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

Sheet No. 6  
6 Sheets.  
S.B.I. Route 83, Sta. 5-123-B, C, Mercer Co.



SECTION OF ABUTMENT

SHOWING OUTLINES  
ELEVATION  
SHOWING REINFORCEMENT

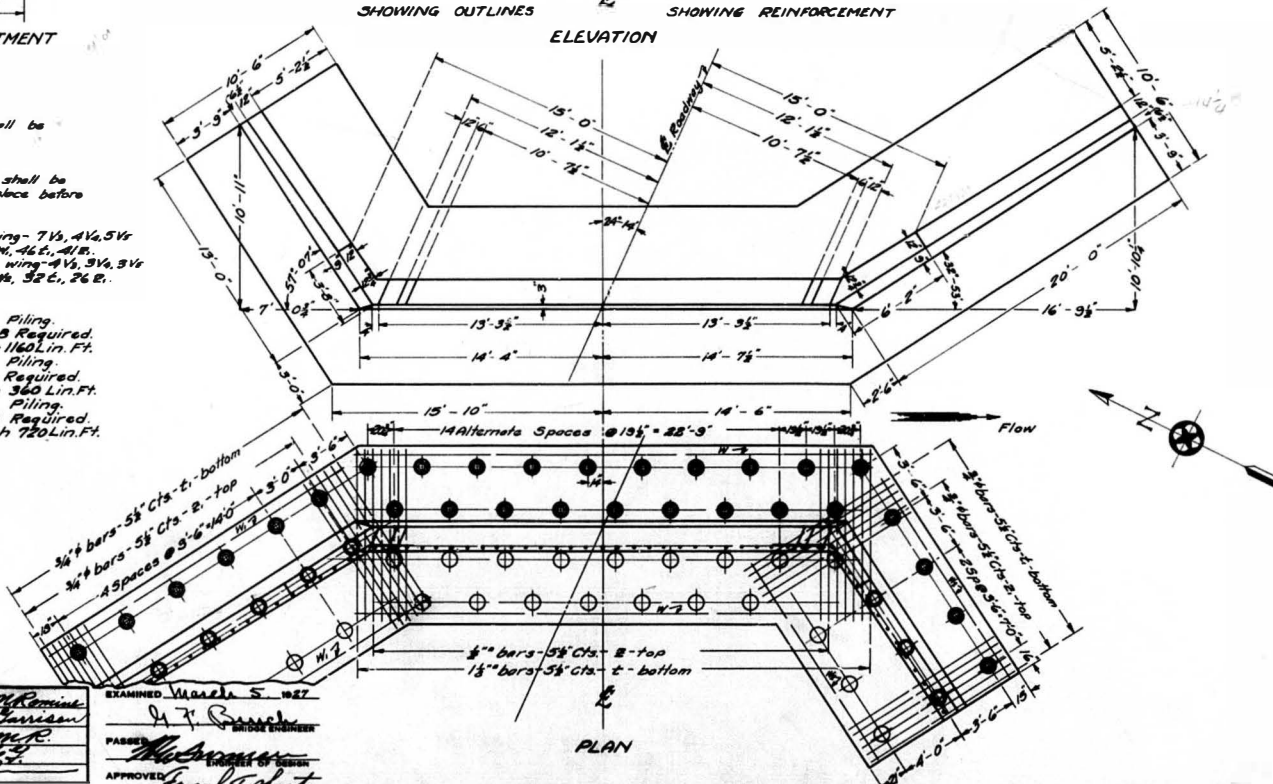
END OF WING

Class A concrete shall be used throughout.  
Proportions 1:2 1/2:4.

All reinforcing steel shall be wired securely in place before concrete is poured.

Bars in each long wing - 7 1/2, 4 1/4, 5 1/4, 3 1/4, 16 ft., 2 ft., 1 ft., 4 ft., 2 ft., 4 ft., 2 ft.  
Bars in each short wing - 4 1/2, 3 1/4, 3 1/4, 3 1/4, 16 ft., 2 ft., 1 ft., 4 ft., 3 ft., 2 ft., 2 ft.

- ⊙ 15 Ton Untreated Piling, 12" Butt, 10" Tip, 58 Required, Estimated Length 1160 Lin. Ft.
- ⊙ 12 Ton Untreated Piling, 12" Butt, 10" Tip, 18 Required, Estimated Length 360 Lin. Ft.
- ⊙ 10 Ton Untreated Piling, 10" Butt, 8" Tip, 48 Required, Estimated Length 720 Lin. Ft.



PLAN

BILL OF MATERIAL

| Bars | No. | Size   | Length |
|------|-----|--------|--------|
| V    | 120 | 4 1/4" | 5'-9"  |
| V    | 58  | 4 1/4" | 11'-9" |
| V    | 8   | 6 1/2" | 15'-0" |
| V    | 22  | 4 1/4" | 15'-6" |
| V    | 18  | 4 1/4" | 14'-0" |
| V    | 16  | 4 1/4" | 12'-6" |
| V    | 16  | 6 1/2" | 11'-0" |
| H    | 32  | 1/2"   | 27'-0" |
| H    | 32  | 1/2"   | 21'-6" |
| H    | 4   | 1/2"   | 14'-0" |
| H    | 3   | 1/2"   | 10'-0" |
| H    | 32  | 1/2"   | 14'-0" |
| H    | 4   | 1/2"   | 9'-6"  |
| H    | 2   | 1/2"   | 7'-0"  |
| H    | 224 | 1"     | 10'-9" |
| C    | 132 | 1 1/2" | 10'-5" |
| C    | 136 | 3/4"   | 10'-3" |
| E    | 120 | 1/2"   | 10'-3" |
| E    | 134 | 3/4"   | 10'-3" |
| H    | 8   | 1/2"   | 30'-0" |
| H    | 8   | 1/2"   | 21'-6" |
| H    | 8   | 1/2"   | 15'-0" |

Class A Concrete Cyls. - 274  
Reinforcing Steel L bars - 200

|           |                    |
|-----------|--------------------|
| COMPUTED  | <i>[Signature]</i> |
| CHECKED   | <i>[Signature]</i> |
| DRAWN     | <i>[Signature]</i> |
| CHECKED   | <i>[Signature]</i> |
| ASSEMBLED | <i>[Signature]</i> |
| CHECKED   | <i>[Signature]</i> |

EXAMINED March 5, 1927  
*[Signature]*  
BRIDGE ENGINEER  
APPROVED  
*[Signature]*  
CHIEF HIGHWAY ENGINEER

FOR INFORMATION ONLY

STATION - 154 + 27.6  
S. B. I. - ROUTE - 83  
SEC. 123-B - MERCER - CO.