

35

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

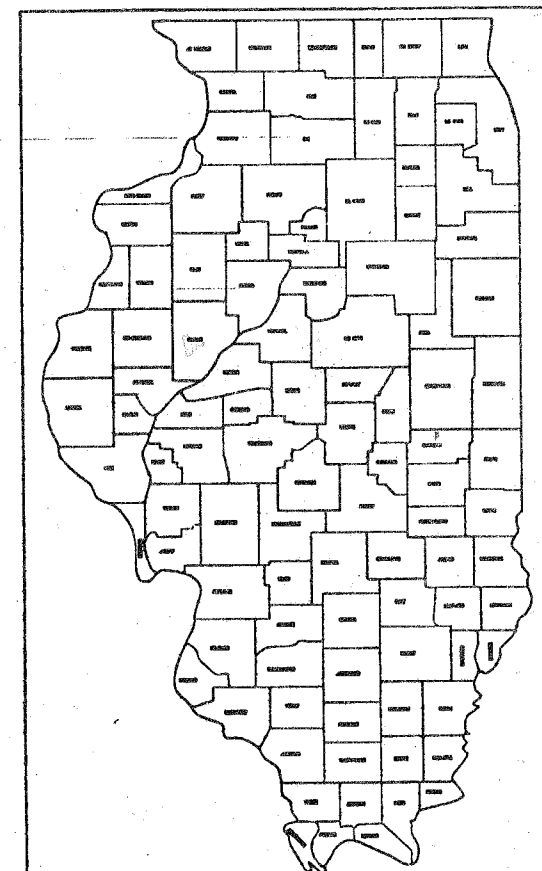
PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

F.A.I. 94 (I-94) BISHOP FORD EXP. NORTH BOUND  
OVER LITTLE CALUMET RIVER  
FINGER PLATE JOINT REPLACEMENT  
SECTION: 42B-11-I-4  
COOK COUNTY  
SN: 016-0159

C-91-180-98

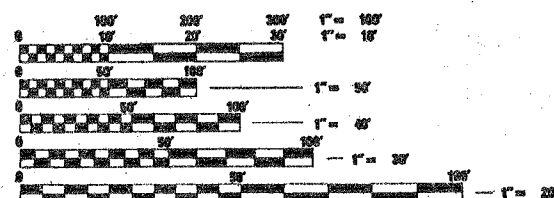
| F.A.I. | SECTION    | COUNTY | TOTAL SHEETS |
|--------|------------|--------|--------------|
| 94     | 42B-11-I-4 | COOK   | 18           |

D-91-180-98



LOCATION OF SECTION INDICATED TRUE - 400

THIS IMPROVEMENT IS LOCATED  
IN THE VILLAGE OF DOLTON



LOCATION OF IMPROVEMENT



TRAFFIC DATA  
1995 ADT : 141,400  
SPEED LIMITS : 55 MPH

|                                                                           |                                    |
|---------------------------------------------------------------------------|------------------------------------|
| STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS |                                    |
| DESIGNED BY                                                               | August 19, 1998<br>John P. Lee     |
| EXAMINED BY                                                               | 12                                 |
| DATE                                                                      | October 2, 1998<br>Bill J. Jankley |
| APPROVED BY                                                               | October 2, 1998<br>James C. St. J. |

PRINTED BY AUTHORITY OF THE  
STATE OF ILLINOIS

FOR UTILITY INFORMATION  
CALL J.U.L.I.E. 1-800-892-0123

CONTRACT NO. 60602

| F. A. NO.             | SECTION  | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|-----------------------|----------|----------|------------------|-----------|
| 96                    | 42B-11-4 | COOK     | 18               | 2         |
| STA.                  |          | TO STA.  |                  |           |
| FED. ROAD DIST. NO. 7 |          | ILLINOIS | FED. AID PROJECT |           |

**INDEX OF SHEETS**

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- 6. EXPANSION JOINT DETAILS
- 7. NEOPRENE TROUGH DETAILS
- 8-12. TRAFFIC CONTROL DETAILS
- 13. ENTRANCE AND EXIT RAMP CLOSURE DETAIL
- 14. DISTRICT ONE FREEWAY STANDARD, ONE LANE CLOSURE
- 15. DISTRICT ONE FREEWAY STANDARD, TWO LANE CLOSURE
- 16. MULTILANE FREEWAY PAVEMENT MARKING DETAILS
- 17. CENTER LANE CLOSURE, TWO LANE WEAVE, AND SHOULDER LANES
- 18. PARTIAL RAMP & SHOULDER CLOSURE DETAIL

**GENERAL NOTES**

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800)892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- 2. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 3. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED. (ONE [1] WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL).
- 4. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 6. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 7. THE ENGINEER SHALL CONTACT DON TARACH, TRAFFIC FIELD ENGINEER AT (708)597-9800 TWO (2) WEEKS PRIOR TO THE START OF THIS PROJECT SO THAT EXACT STATIONING OF NO PASSING ZONES AND OTHER PAVEMENT MARKINGS MAY BE ESTABLISHED.

8. EXISTING STATE OWNED TEMPORARY INSPECTION PLATFORM AND STEEL PLATES PROTECTING EXISTING JOINT, LOCATED UNDER BRIDGE DECK AT JOINT, SHALL BE REMOVED PRIOR TO STARTING ANY WORK AND DELIVERED TO THE DISTRICT BRIDGE OFFICE (1101 BIESTERFIELD ROAD, ELK GROVE, IL 60007 (847)956-1444). THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE CONSTRUCTION INVOLVED, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**STATE STANDARDS**

701411, 702001, 704001  
637001, 638001

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS  
STATE STANDARDS  
GENERAL NOTES

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
DESIGNED BY  
CHECKED BY

| SECTION               | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|-----------------------|----------|------------------|-----------|
| 94 42B-11-E4          | COOK     | 18               | 3         |
| STA.                  | TO STA.  |                  |           |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT |           |

# SUMMARY OF QUANTITIES

URBAN  
100% STATE

| CODE NO.   | ITEM                                                  | UNIT   | QUANTITY | 8FTY-2A1 |
|------------|-------------------------------------------------------|--------|----------|----------|
| 40600660   | LEVELING BINDER (HAND METHOD), MIXTURE B, TYPE 2      | TON    | 20       | 20       |
| 50102400   | CONCRETE REMOVAL                                      | CU YD  | 9        | 9        |
| 50300255   | CONCRETE SUPER STRUCTURES                             | CU YD  | 9        | 9        |
| 50500405   | FURNISHING AND ERECTING STRUCTURAL STEEL              | POUND  | 19200    | 19200    |
| 50800205   | REINFORCEMENT BARS, EPOXY COATED                      | POUND  | 1260     | 1260     |
| 70049720   | REINFORCED NEOPRENE EXPANSION JOINT TREATMENT         | FOOT   | 65       | 65       |
| 70056400   | SAND MODULE IMPACT ATTENUATOR (TEMPORARY)             | EACH   | 11       | 11       |
| 63801100   | MODULAR BLADE-TYPE GLARE SCREENS                      | FOOT   | 4850     | 4850     |
| 70300505   | PAVEMENT MARKING TAPE, TYPE III (SPECIAL)             | FOOT   | 5400     | 5400     |
| 70300520   | PAVEMENT MARKING TAPE, TYPE III 4"                    | FOOT   | 21300    | 21300    |
| 70300530   | PAVEMENT MARKING TAPE, TYPE III 5"                    | FOOT   | 2500     | 2500     |
| 70300550   | PAVEMENT MARKING TAPE, TYPE III 8"                    | FOOT   | 1700     | 1700     |
| 70300560   | PAVEMENT MARKING TAPE, TYPE III 12"                   | FOOT   | 1100     | 1100     |
| 70400300   | TEMPORARY CONCRETE BARRIER, TERMINAL SECTION          | EACH   | 1        | 1        |
| 70400500   | TEMPORARY CONCRETE BARRIER (STATE OWNED)              | FOOT   | 8050     | 8050     |
| 70400600   | RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED)     | FOOT   | 1290     | 1290     |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4"              | FOOT   | 10140    | 10140    |
| * 79000500 | THERMOPLASTIC PAVEMENT MARKING - LINE 8"              | FOOT   | 2400     | 2400     |
| * 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12"             | FOOT   | 400      | 400      |
| 78002110   | PREFORMED PLASTIC PAVEMENT MARKING, TYPE A - LINE 4"  | FOOT   | 9400     | 9400     |
| 78002120   | PREFORMED PLASTIC PAVEMENT MARKING, TYPE A - LINE 5"  | FOOT   | 2450     | 2450     |
| 78002140   | PREFORMED PLASTIC PAVEMENT MARKING, TYPE A - LINE 8"  | FOOT   | 1200     | 1200     |
| 78002150   | PREFORMED PLASTIC PAVEMENT MARKING, TYPE A - LINE 12" | FOOT   | 400      | 400      |
| * 78100300 | REPLACEMENT REFLECTOR                                 | EACH   | 250      | 250      |
| 78200100   | MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR           | EACH   | 240      | 240      |
| 78200200   | BIDIRECTIONAL PRISMATIC BARRIER REFLECTOR             | EACH   | 50       | 50       |
| 78300100   | PAVEMENT MARKING REMOVAL                              | SQ FT  | 10375    | 10375    |
| 78300300   | PREFORMED PLASTIC PAVEMENT MARKING REMOVAL            | SQ FT  | 4000     | 4000     |
| X0521761   | MECHANICAL SPLICE                                     | EACH   | 106      | 106      |
| X7011015   | TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)          | L SUM  | 1        | 1        |
| X7013820   | TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS             | CAL DA | 16       | 16       |
| X7015000   | CHANGEABLE MESSAGE SIGN                               | CAL MO | 1        | 1        |

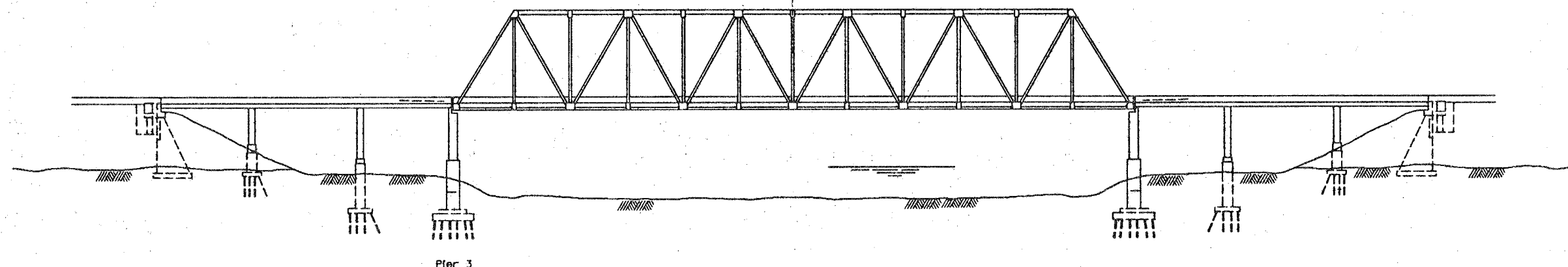
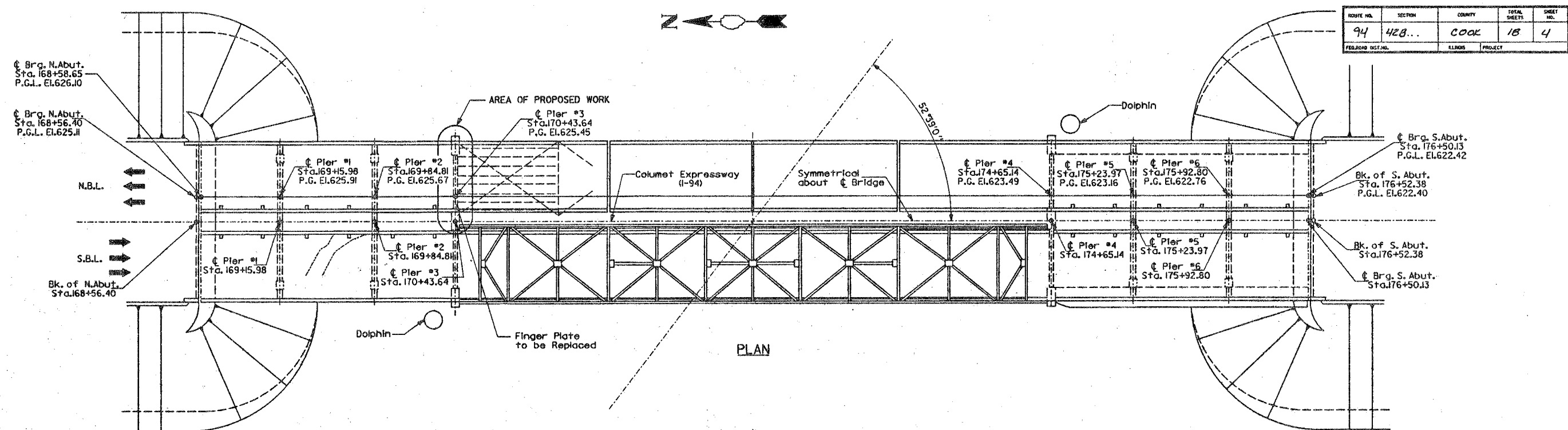
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

## SUMMARY OF QUANTITIES

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
DESIGNED BY  
CHECKED BY



#### GENERAL NOTES:

The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shop and field painting of new Structural Steel except where otherwise noted. The color of the final finish coat shall be Gray, Munsell No. 5B 7/1. See Special Provisions "Cleaning and Painting New Metal Structures".

Existing Structural Steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Adjacent Areas of Existing Steel Structures".

The applicable Portions of the Illinois Department of Transportation "Standard Specification for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provision" there to adopted January 1, 1997 shall apply to this improvement.

Plan dimensions and details relative to existing Structure have been taken from existing Plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work. However the Contractor will be paid for the quantity furnished at the unit price bid for the work.

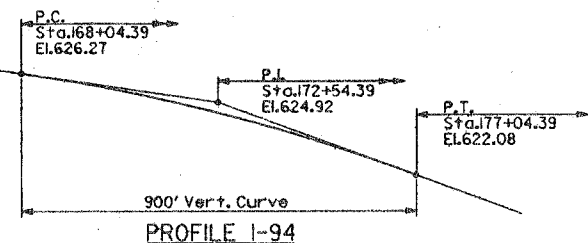
Cost of removing, disposing of, hauling and delivering the 3/4" x 46 1/2" Plates, Finger Plates, Concrete, Stools, Trough, Reinforcing Steel and all other materials to be removed in order to install the New Joint will be incidental to Concrete Removal.

The 3/4" x 46 1/2" Plates shall become the property of the State and be delivered by the Contractor to the Calumet Yard.

The Roadway Exp. Plates shall be flame cut as provided in Art. 505.04(K) of the Standard Specifications.

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Fasteners shall be high strength bolts. Bolts 3/4"  $\phi$ , open holes 1 1/8"  $\phi$ , unless otherwise noted.



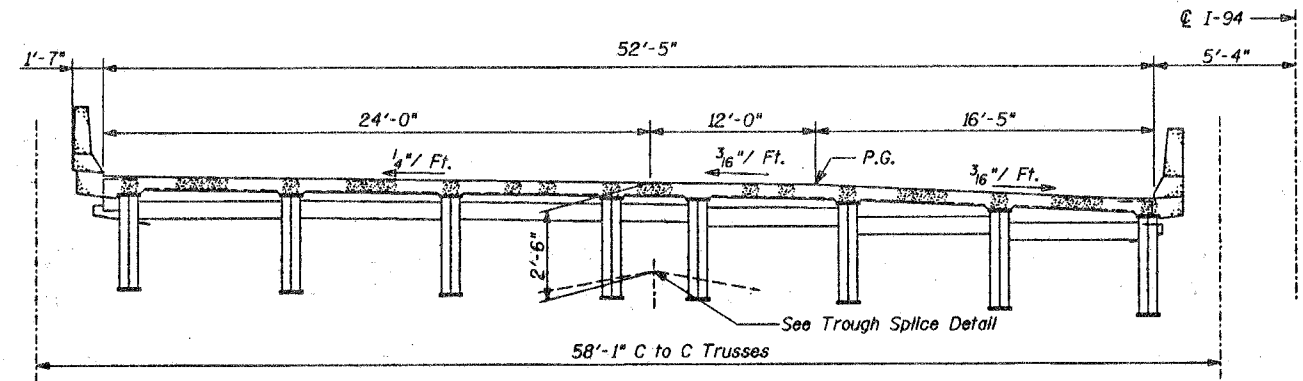
#### TOTAL BILL OF MATERIALS

|                                        |          |        |
|----------------------------------------|----------|--------|
| Concrete Removal                       | Cu. Yds. | 9.0    |
| Mechanical Splice                      | Each     | 106    |
| Reinf. Neop. Exp. Jt. Treat.           | Foot     | 65     |
| Reinforcement Bars Epoxy Coated        | Pound    | 1260   |
| Traffic Control                        | L. Sum   | 1      |
| Concrete Superstructure                | Cu. Yds. | 9.0    |
| Furnishing & Erecting Structural Steel | Pound    | 19,200 |

#### GENERAL PLAN AND ELEVATION

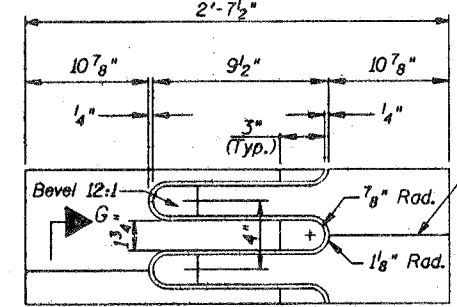
|                                                                                  |  |                                                                                                                                                                                                                                                                                                                |                                                                                                                   |
|----------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| REVISIONS<br>NO. DATE DETAILS<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 |  | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS<br>F.A.J. RTE. 94<br>FINGER PLATE EXP. JT. REPLACEMENT<br>(STRUCTURE NO. 016-0159 NORTHBOUND)<br>CHASTAIN & ASSOCIATES, LLP<br>8000 N. ORTH HAYES AVENUE<br>SUITE 204<br>CHICAGO, ILLINOIS 60631<br>773-714-0050<br>FAX 773-714-0055 | DRAWN BY DATE<br>L.L. 7-24-98<br>CHECKED BY DATE<br>P.K. 7-24-98<br>PROJECT NO.<br>4222-13<br>SHEET NO.<br>1 OF 4 |
|----------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|

| DATE | DESCRIPTION | COUNTY | SCALE | SHEET |
|------|-------------|--------|-------|-------|
| 9/4  | 422...      | COOK   | 1/8   | 5     |

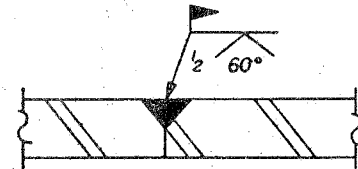


**ELEVATION**  
Looking South

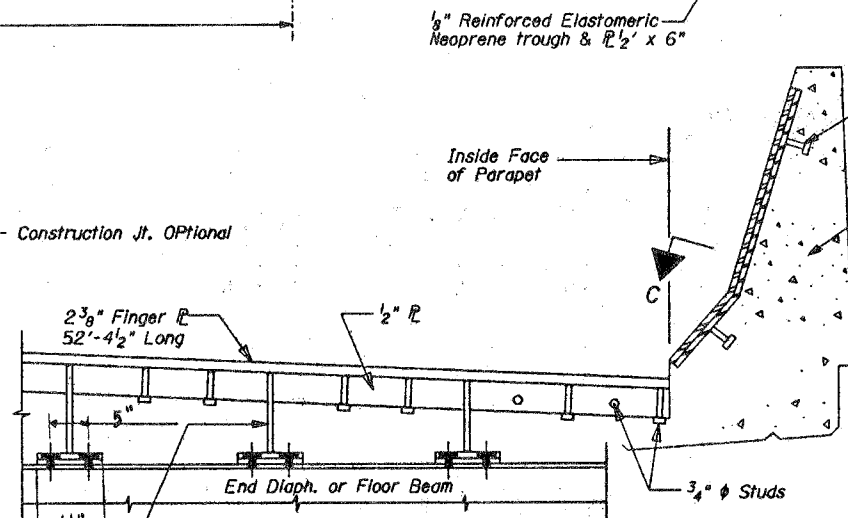
- Notes:**
1. Stainless steel bolts, washers and nuts shall meet the requirements of ASTM A193.
  2. Expansion Length = 548.5'



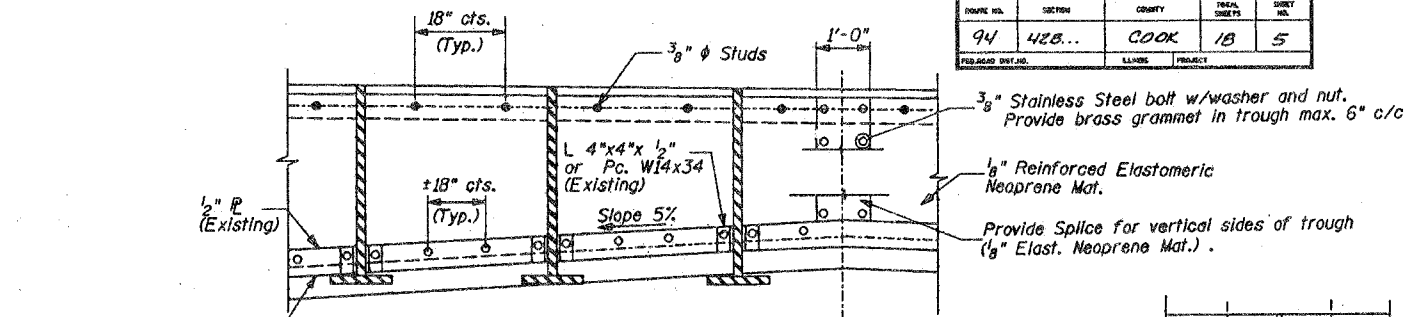
**FLAME CUTTING DIAGRAM**



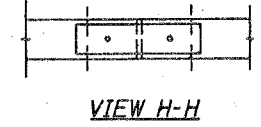
**SECTION G-G**



**SECTION B-B**

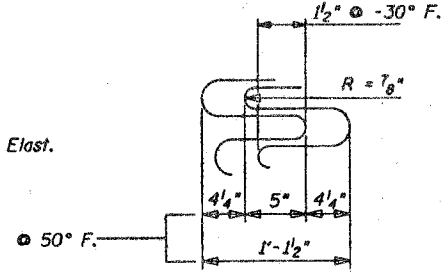


**SECTION I-I**

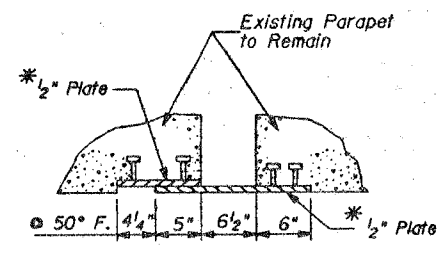


**VIEW H-H**

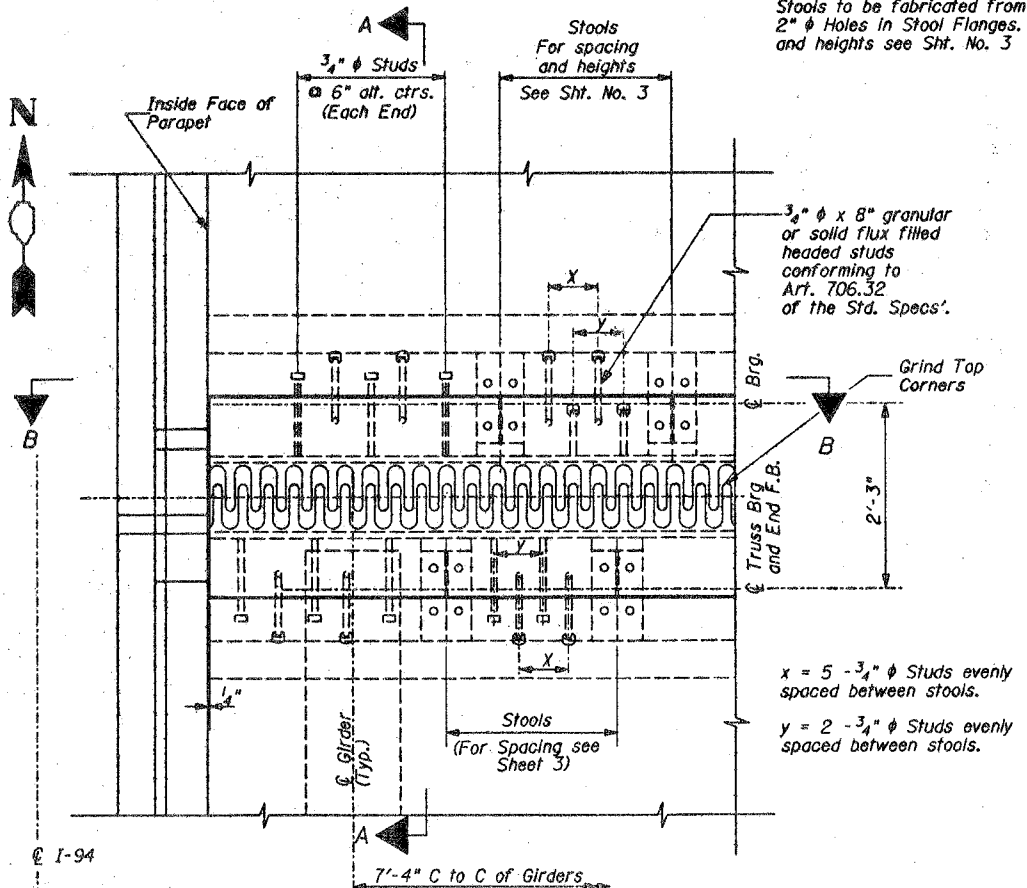
**TROUGH SPLICE DETAIL**  
(@ Crown)



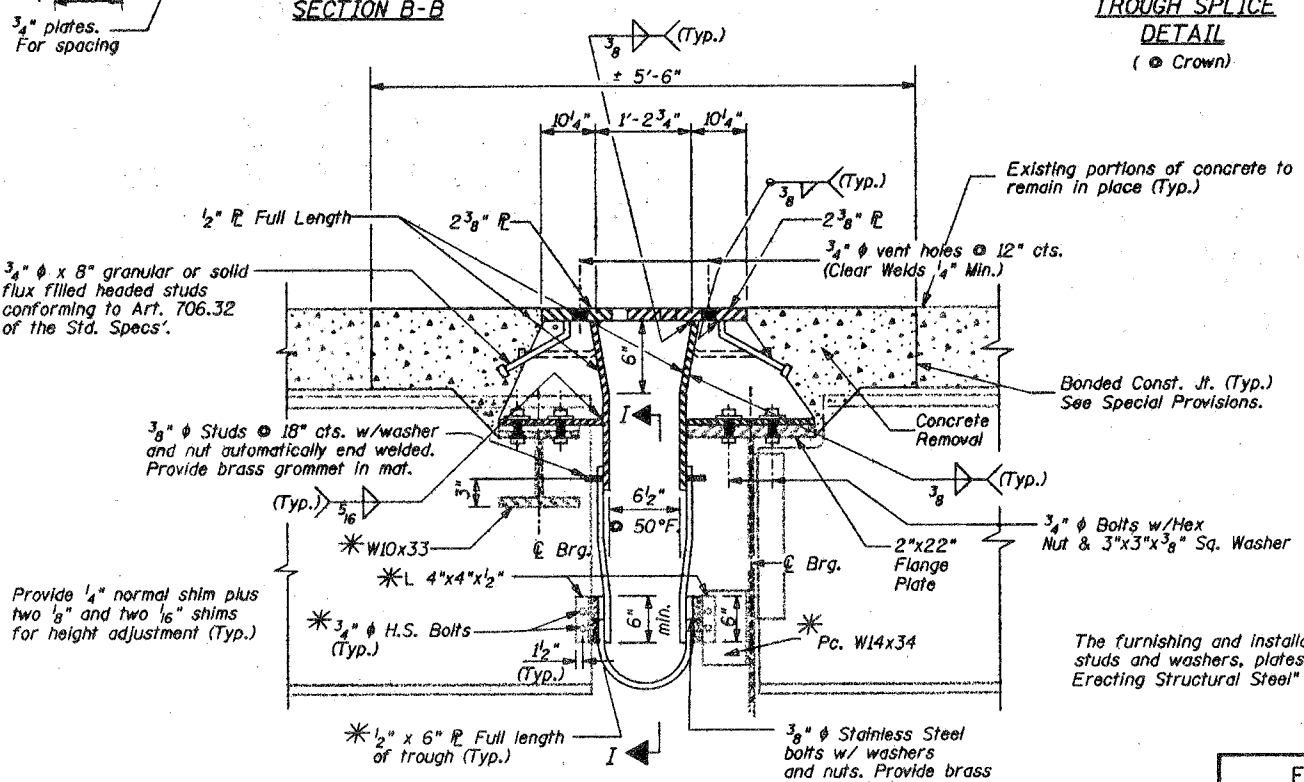
**FINGER DETAIL**



**SECTION C-C**



**PLAN**



**SECTION A-A**

Provide 1/4" normal shim plus two 1/8" and two 1/16" shims for height adjustment (Typ.)

x = 5 - 3/4" Studs evenly spaced between stools.  
y = 2 - 3/4" Studs evenly spaced between stools.

\* Existing to remain

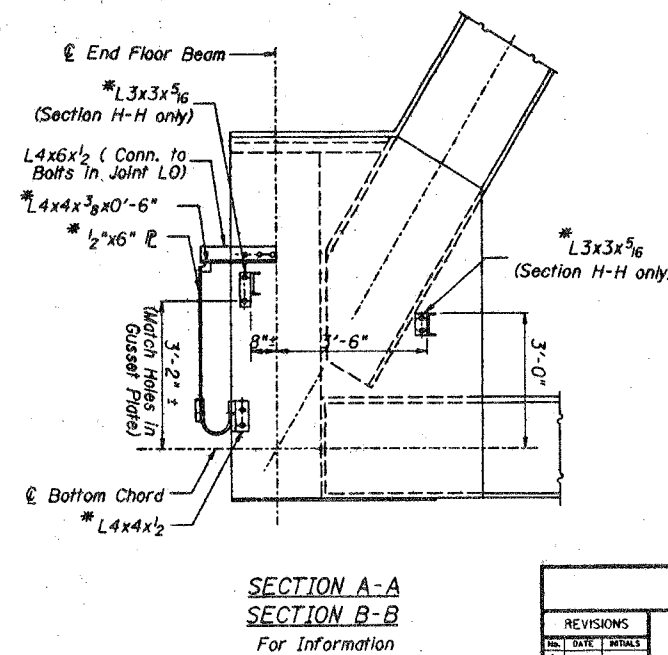
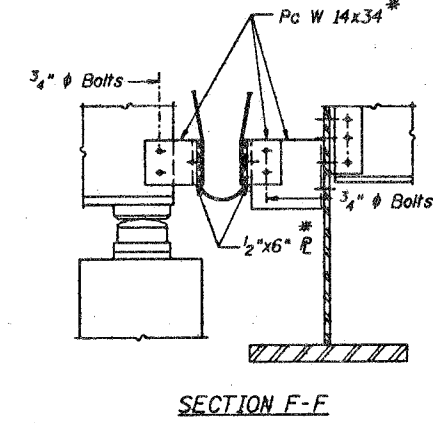
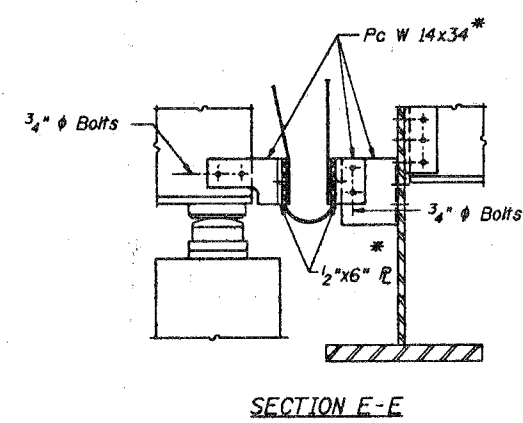
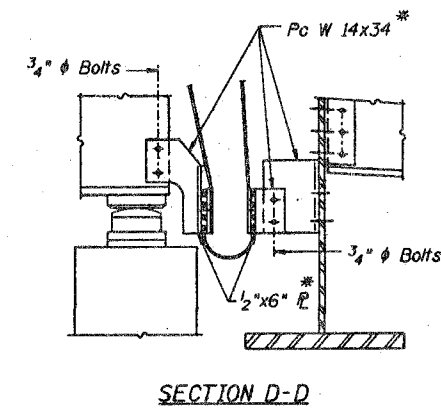
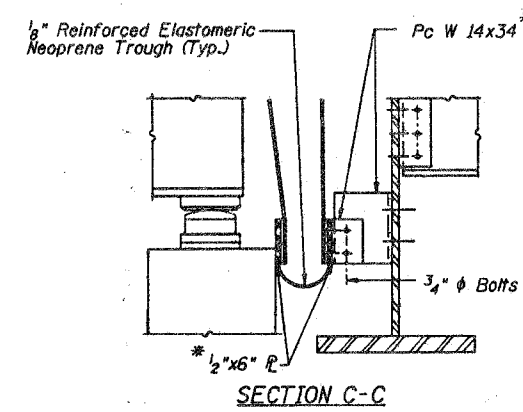
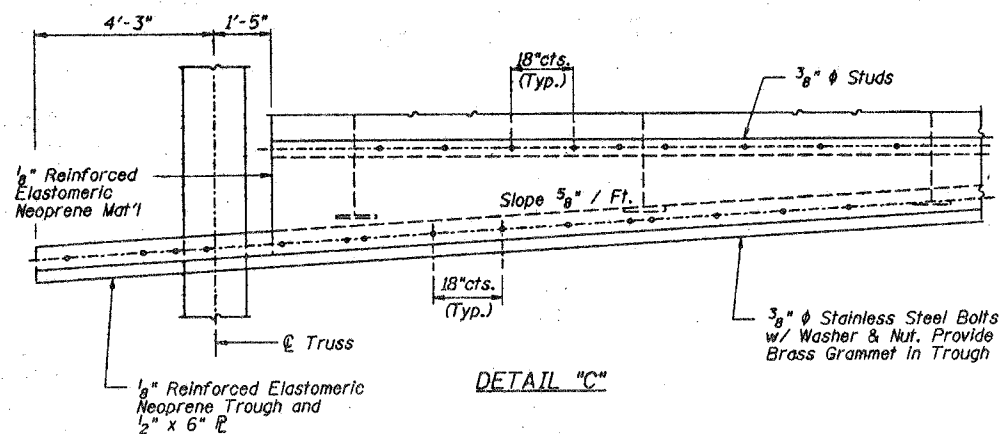
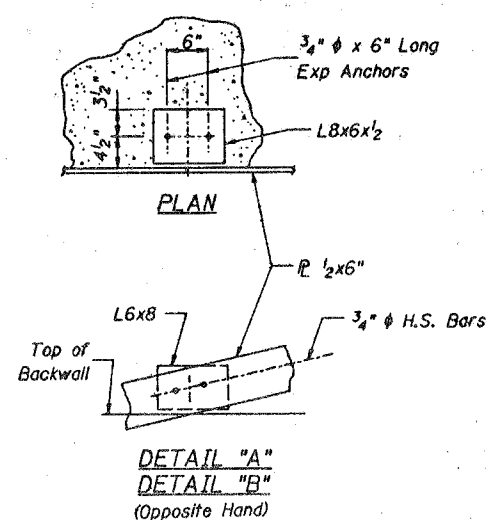
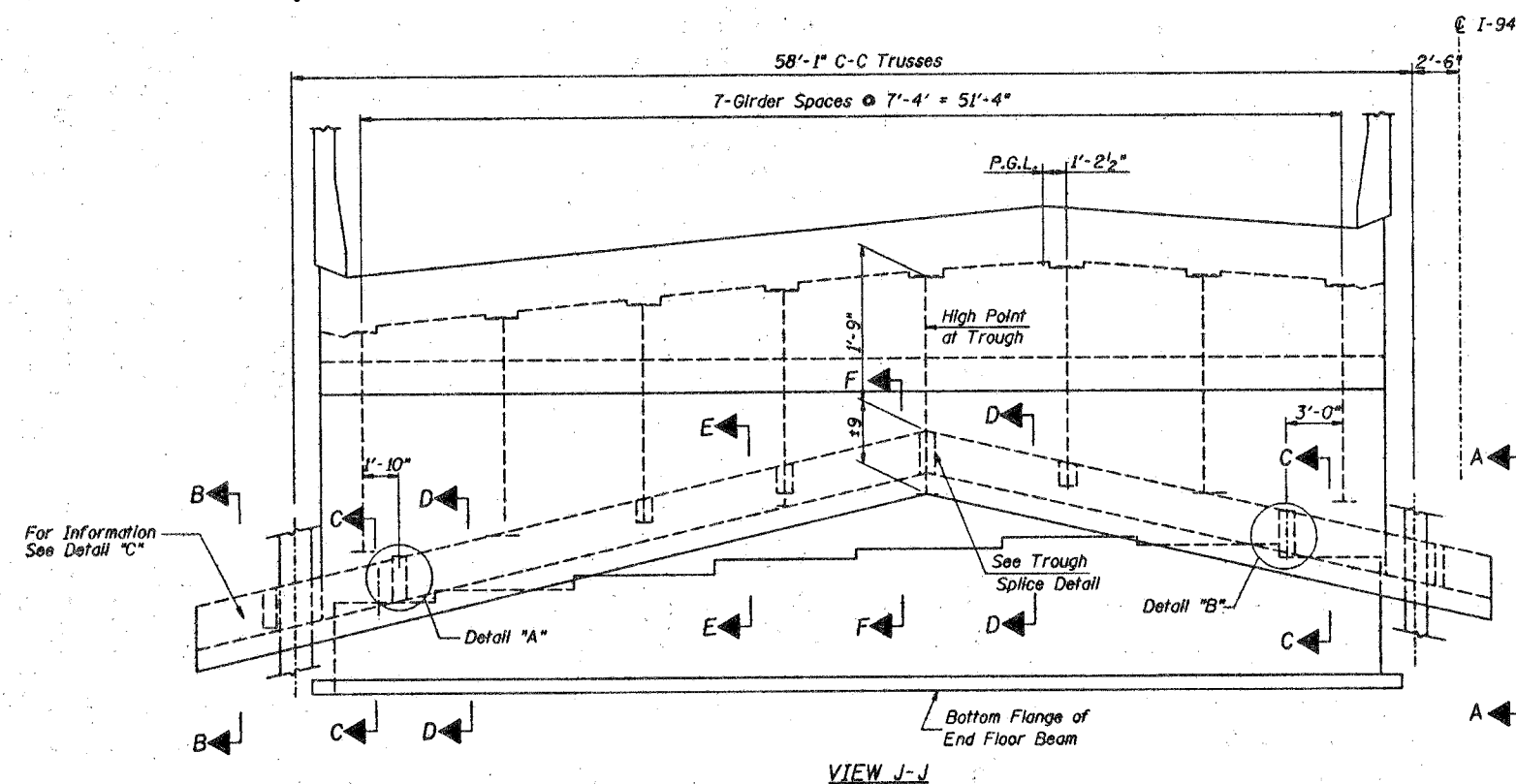
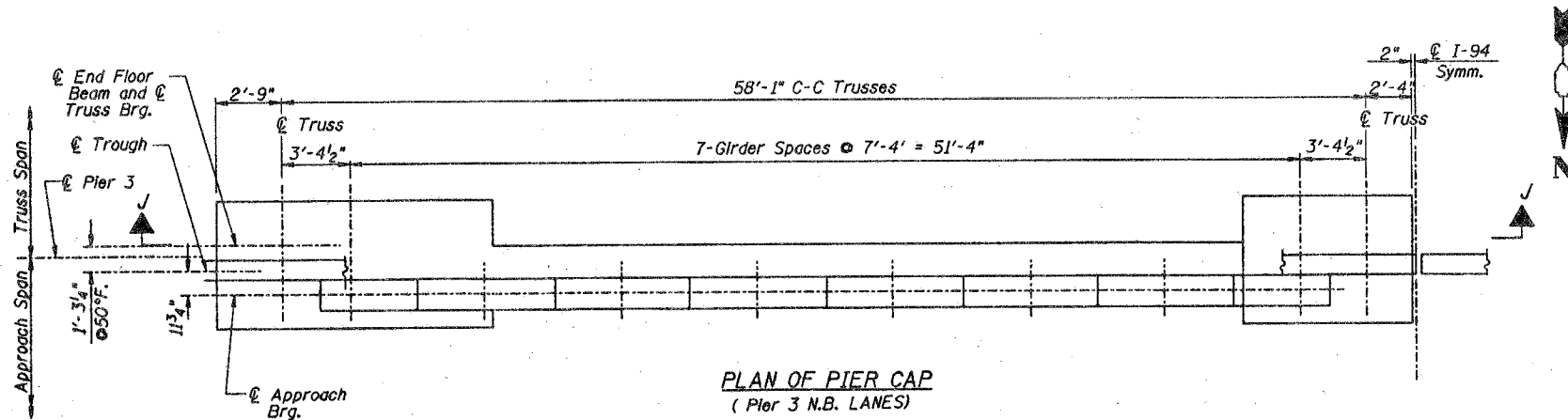
Reinforcement not shown for clarity. See Sht. 3 of 4.

The furnishing and installation of all necessary hardware, exp. bolts, stainless steel bolts, studs and washers, plates, welding, and angles, are included in Item "Furnishing and Erecting Structural Steel"

| REVISIONS |      |         |  | FINGER PLATE EXPANSION JOINT DETAILS                                                                           |  |  |  |
|-----------|------|---------|--|----------------------------------------------------------------------------------------------------------------|--|--|--|
| NO.       | DATE | DETAILS |  | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS                                      |  |  |  |
| 1         |      |         |  | F.A.I. RTE. 94<br>FINGER PLATE EXP. JT. REPLACEMENT<br>(STRUCTURE NO. 016-0159 NORTHBOUND)                     |  |  |  |
| 2         |      |         |  | DRAWN BY: CHASTAIN & ASSOCIATES, LLP<br>CHECKED BY: DATE: 7-24-98<br>PROJECT NO.: 4222-13<br>SHEET NO.: 2 OF 4 |  |  |  |







| NEOPRENE TROUGH DETAILS |      |                                                                           |      |
|-------------------------|------|---------------------------------------------------------------------------|------|
| REVISIONS               |      | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS |      |
| 1                       | DATE | INITIALS                                                                  | DATE |
| 2                       |      |                                                                           |      |
| 3                       |      |                                                                           |      |
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| 10                      |      |                                                                           |      |
| PROJECT NO.             |      | 4222-13                                                                   |      |
| SHEET NO.               |      | 4 OF 4                                                                    |      |