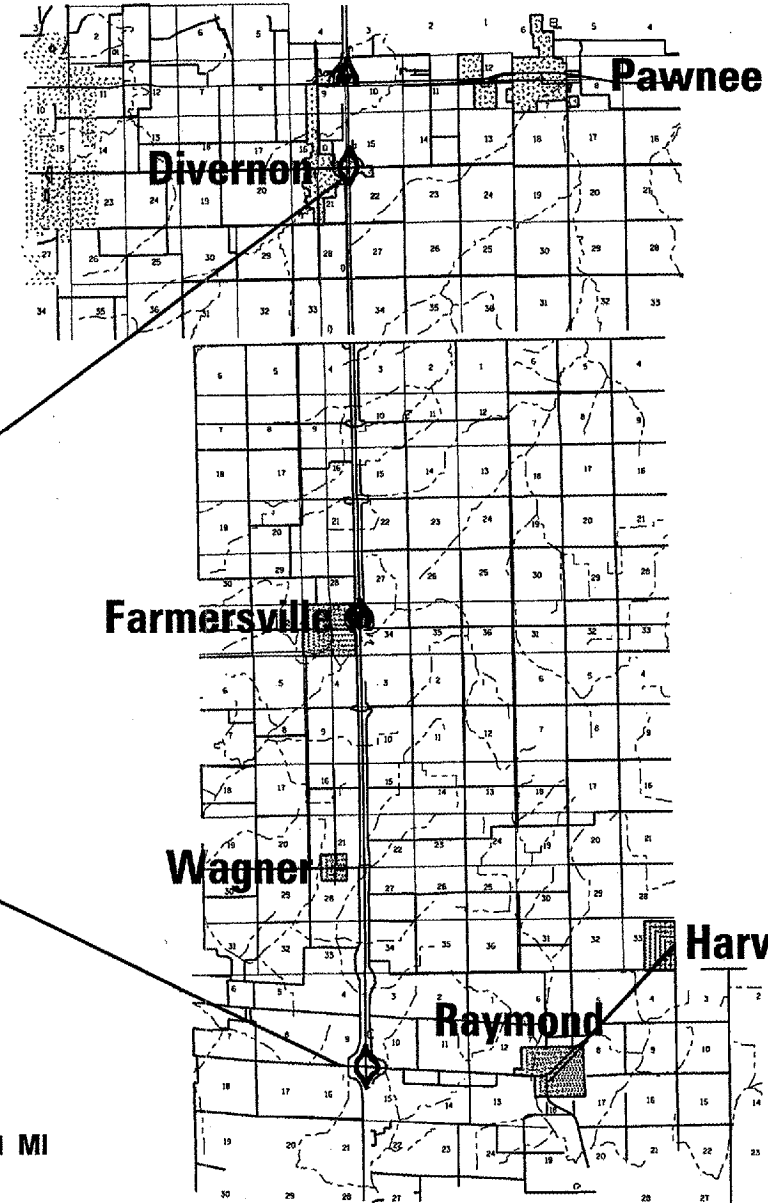
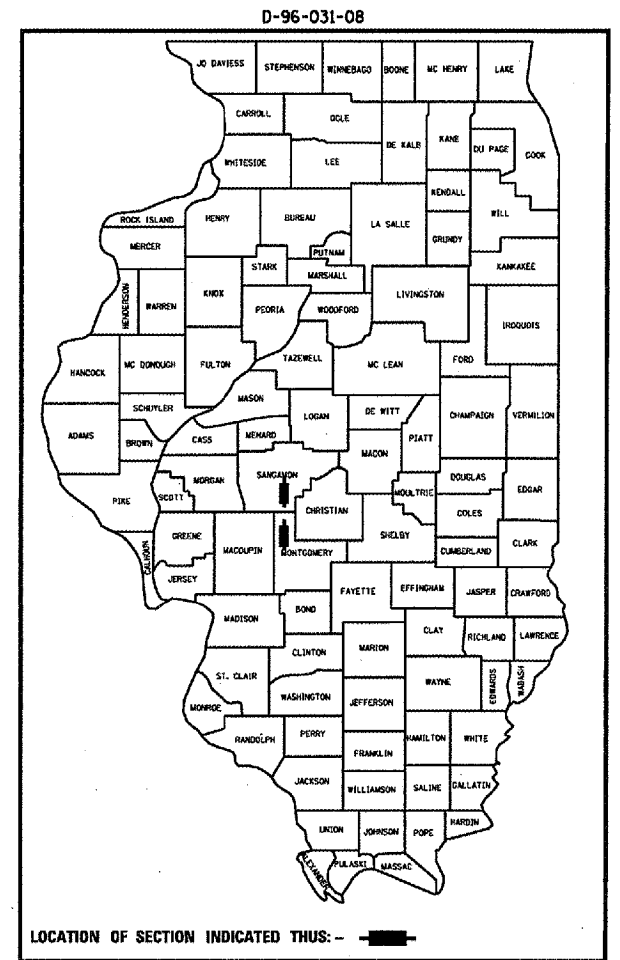


| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------------------------------|----------|--------------|-----------|
| 55 | D6 REHAB BR PAINTING 2008 MONTGOMERY | SANGAMON | 10 | 1 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 55
SECTION - D6 REHAB BR PAINTING 2008
PROJECT C-96-031-08
MONTGOMERY AND SANGAMON COUNTIES

FOR INDEX OF SHEETS, SEE SHEET NO. 2



SN 084-0106
Location 2

SN 068-0042
Location 1

BRIDGE ENGINEER
STEVE BERAN - (217) 785-9290

BRIDGE INSPECTION ENGINEER
DAVE COPENBARGER - (217) 785-5306

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 72B71

NET LENGTH OF SECTION: 600' = .11 MI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: *Jan 13 2008*
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 1, 2008
[Signature]
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

February 1, 2008
[Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, GENERAL NOTES, & SIGNATURES
- 3 SUMMARY OF QUANTITIES
- 4-10 EXISTING STRUCTURE PLANS

STANDARDS

- 701001-01
- 701006-02
- 701101-01
- 701106-01
- 701400-02
- 701401-04
- 701411-04
- 701901

GENERAL NOTES

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL EXISTING STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING - SSPC-SP10. ALL EXISTING STEEL SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZE/U. THE COLOR OF THE FINAL FINISH COAT FOR EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN, MUNSELL NO 7.5G 48. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO 5B 71.

THE SSPC-QP-1 AND SSPC-QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED FOR THIS BRIDGE. THE USE OF AIR MONITORS WILL BE REQUIRED.

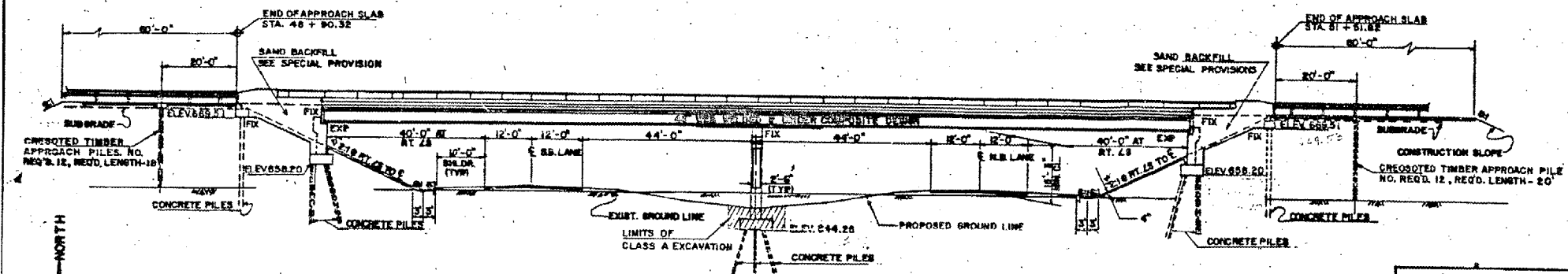
| | |
|---|---|
| STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6 | |
| EXAMINED | November 19 20 07 <i>[Signature]</i> ENGINEER OF OPERATIONS |
| EXAMINED | Dec 7 20 07 <i>[Signature]</i> ENGINEER OF PROGRAM IMPLEMENTATION |
| EXAMINED | Nov 27 20 07 <i>[Signature]</i> ENGINEER OF PROGRAM DEVELOPMENT |

C-96-031-08
INDEX, GENERAL
NOTES, & SIGNATURES

| SUMMARY OF QUANTITIES | | | | RURAL 100% STATE SANGAMON | RURAL 100% STATE MONTGOMERY |
|-----------------------|---|--------|----------|---------------------------------|-----------------------------------|
| ITEM # | DESCRIPTION | UNIT | QUANTITY | SFTY-2A | SFTY-2A |
| X0324401 | PORTABLE TEMPORARY BARRIER SYSTEM, TL-3 | FOOT | 700 | | 700 |
| X7040092 | RELOCATE PORTABLE TEMPORARY BARRIER SYSTEM, TEST LEVEL 3 | L SUM | 1 | | 1 |
| X7011420 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701411 | L SUM | 1 | .5 | .5 |
| 50600600 | CLEANING AND PAINTING STEEL BRIDGE NO. 1 | L SUM | 1 | | 1 |
| 50600700 | CLEANING AND PAINTING STEEL BRIDGE NO. 2 | L SUM | 1 | 1 | |
| 50606401 | CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1 | L SUM | 1 | | 1 |
| 50606402 | CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2 | L SUM | 1 | 1 | |
| 67100100 | MOBILIZATION | L SUM | 1 | .5 | .5 |
| 70100800 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 | L SUM | 1 | .5 | .5 |
| 70106800 | CHANGEABLE MESSAGE SIGN | CAL MO | 4 | 2 | 2 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

C-96-031-08
SUMMARY OF QUANTITIES

Rev.



ELEVATION

STA. 1491+25.73
BUILT BY
STATE OF ILLINOIS
F.A.I.-55-SEC. 68-3HB
F.A. PROJ. J-55-2(40)
LOADING HS 20
NAMEPLATE
SEE STD. 2113-1

GENERAL NOTES

ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN. FIELD CONNECTIONS SHALL BE BOLTED, USING HIGH STRENGTH BOLTS, BOLTS 7/8", OPEN HOLES 1 1/8", UNLESS OTHERWISE NOTED.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGES OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" X 6" MESH, WEIGHING 15# PER 100 SQUARE FEET.

CLASS A EXCAVATION FOR STRUCTURES INCLUDES EXCAVATION FOR SLOPE WALL.

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

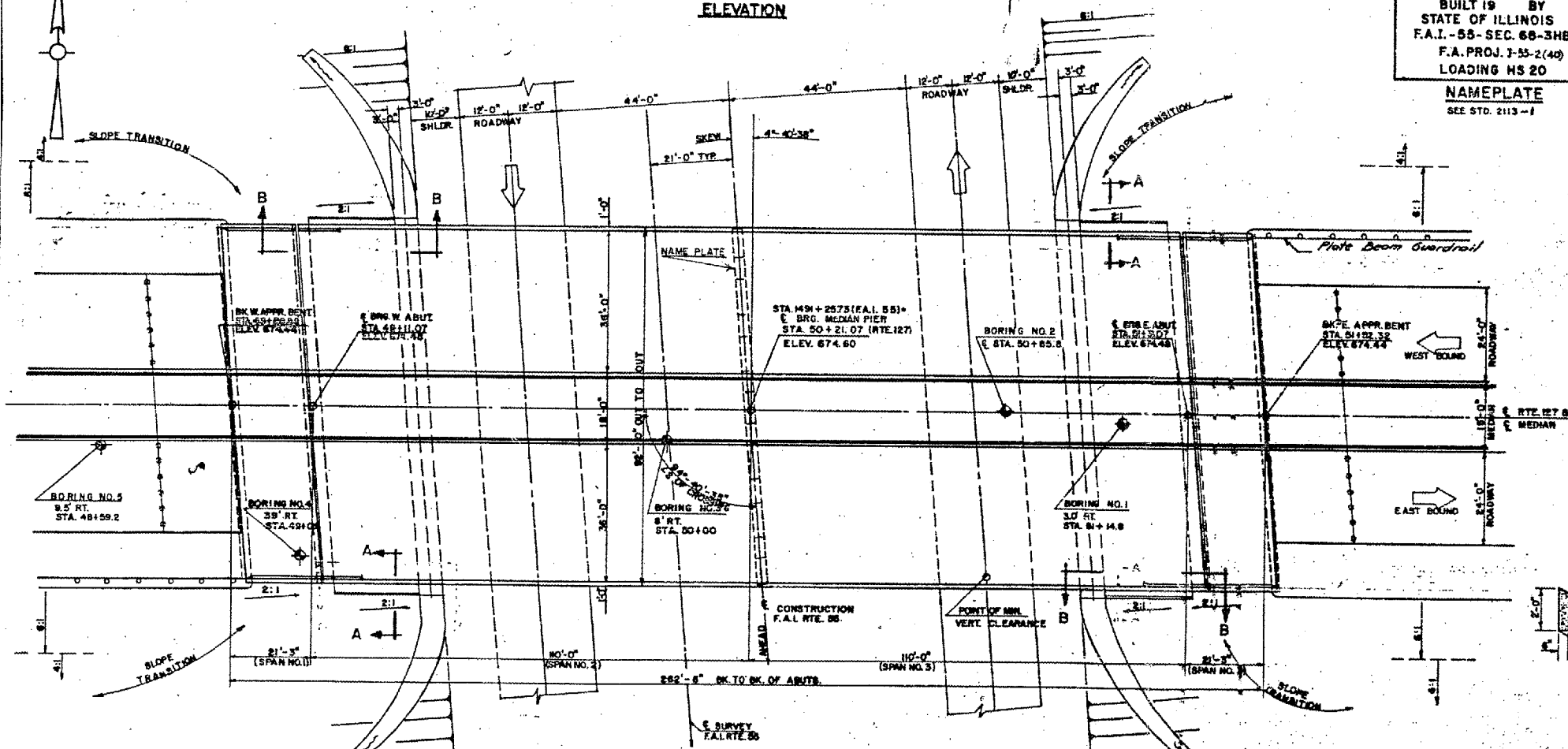
THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF MANUAL CONCRETE.

THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE IN A PERMANENT LOCATION AT THE WEST ABUTMENT AND ONE CONCRETE TEST PILE IN A PERMANENT LOCATION AT THE EAST APPROACH BENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES. CONCRETE PILES AT ABUTMENTS SHALL BE DRIVEN IN HOLES PRECURED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 613.09 (c) OF THE STANDARD SPECIFICATIONS.

HORIZONTAL CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH ARTICLE 504.13 (b)(1), 2, OR 3 OF THE STANDARD SPECIFICATIONS.

Calculated plan weight of Structural Steel = 197,810 lbs.

The Basic Level Sillio Chromox paint system shall be used for shop and field painting of structural steel.

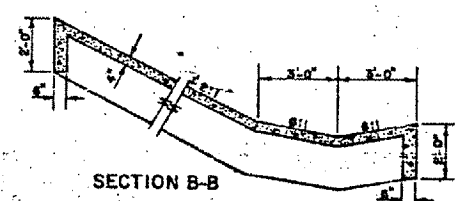


PLAN

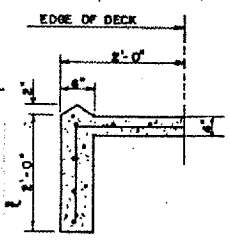
TOTAL BILL OF MATERIALS

| ITEM | UNIT | SUPER | SUB | TOTAL |
|----------------------------------|----------|--------|-------|--------|
| CLASS A EXCAVATION FOR STRUCTURE | CU. YDS. | | 170 | 170 |
| CLASS X CONCRETE | CU. YDS. | 785.2 | 448.5 | 1233.7 |
| STRUCTURAL STEEL | LB. | 174580 | 45140 | 219720 |
| REINFORCEMENT BARS | LB. | | | |
| ALUMINUM RAILS | LIN. FT. | 483 | 5926 | 6409 |
| CONCRETE PILES | EA. | | 2 | 2 |
| TEST PILES (CONCRETE) | EA. | | 2 | 2 |
| SLOPE WALL (4') | SQ. YDS. | | 800 | 800 |
| STUD SHEAR CONNECTORS | EA. | 4704 | | 4704 |
| NAME PLATE | EA. | | 1 | 1 |
| PROTECTIVE COAT | SQ. YDS. | 2788 | | 2788 |
| BRIDGE SEAT SEALANT | L.S. | | | |
| CORRODED PILES (UP TO 20') | LB. | | 488 | 488 |
| SAND BACKFILL | CU. YDS. | | 422 | 422 |

* AT ABUTMENTS ONLY

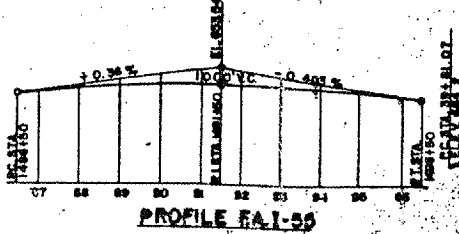


SECTION B-B

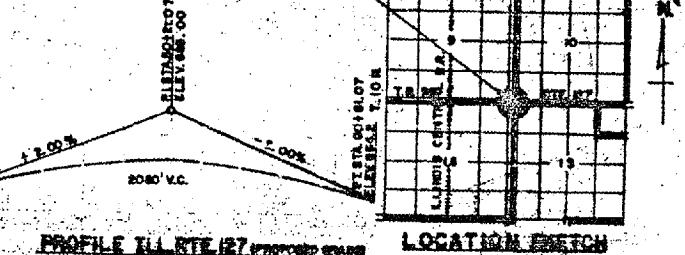


SECTION A-A

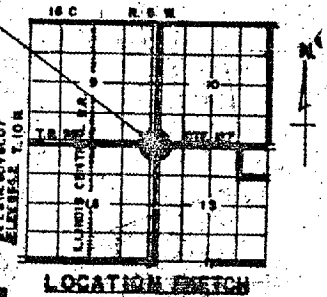
DESIGN STRESSES
FIELD UNITS
fc = 1300 P.S.I. DECK
fc = 1400 P.S.I. SUB. CURB, PARAPET & STR. SLAB.
fs = 20,000 P.S.I. STRUCT. & REINF.
vc = 75 P.S.I. FOOTINGS
R = 10.
LOADING HS 20-44
NOTE: ALLOW 85% OF FUTURE WEARING SURFACE COMP. L. A - 1200



PROFILE F.A.I.-99

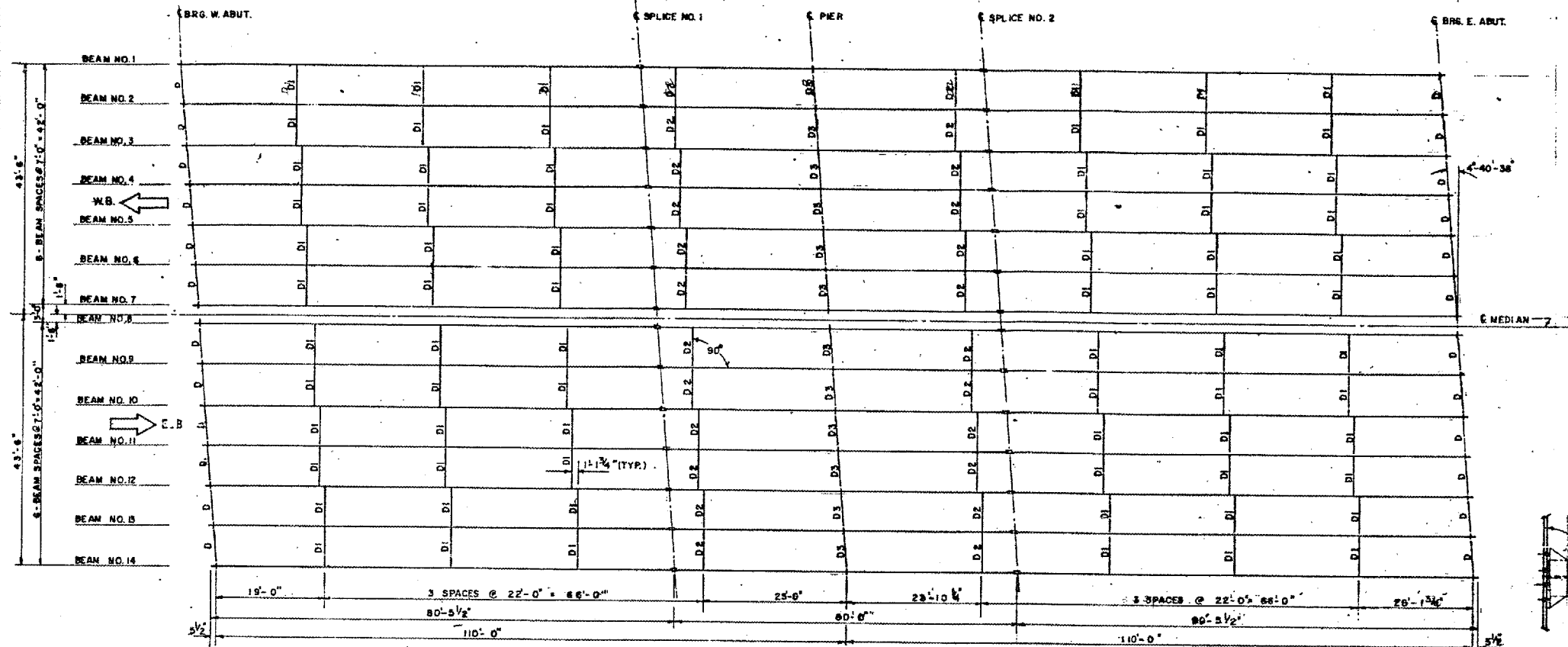


PROFILE ILL. RTE. 127



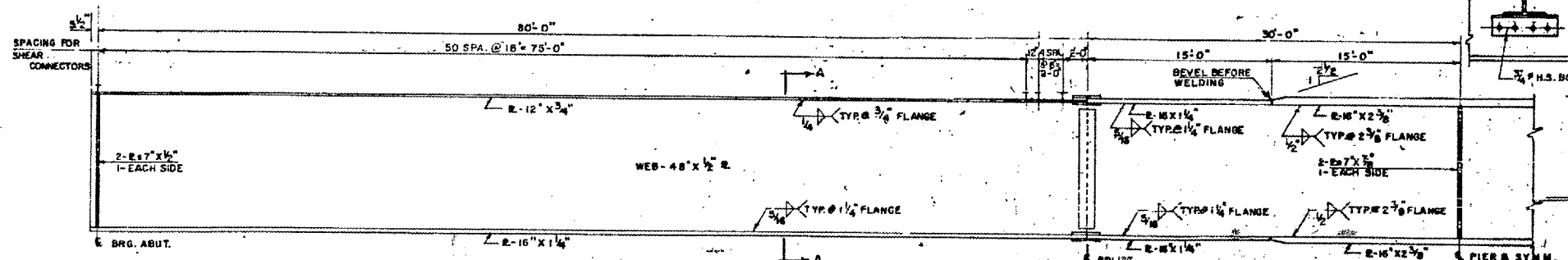
LOCATION SKETCH

C-96-031-08
SN 068-0042
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
(NOT TO SCALE)



FRAMING PLAN

NOTE: ALL INTERIOR DIAPHRAGMS TO BE 16W36
END DIAPHRAGMS TO BE 14W43

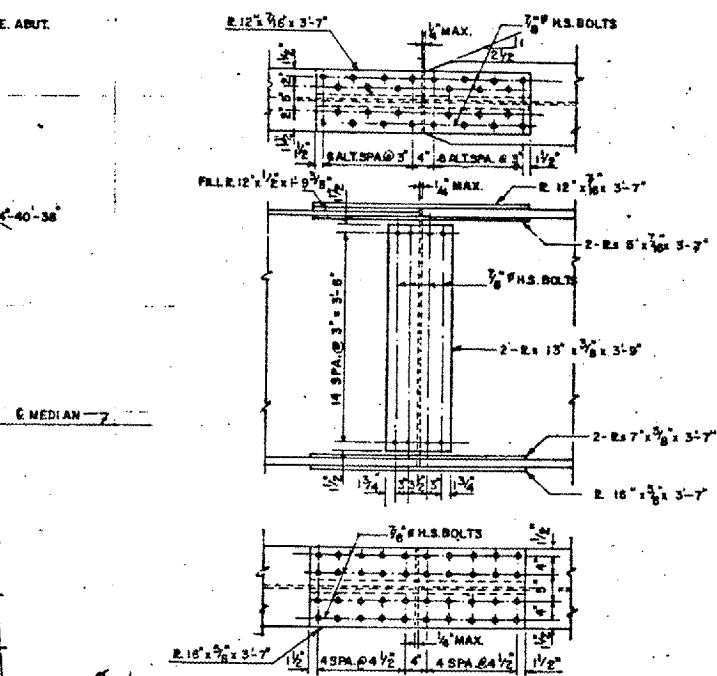


HALF-ELEVATION

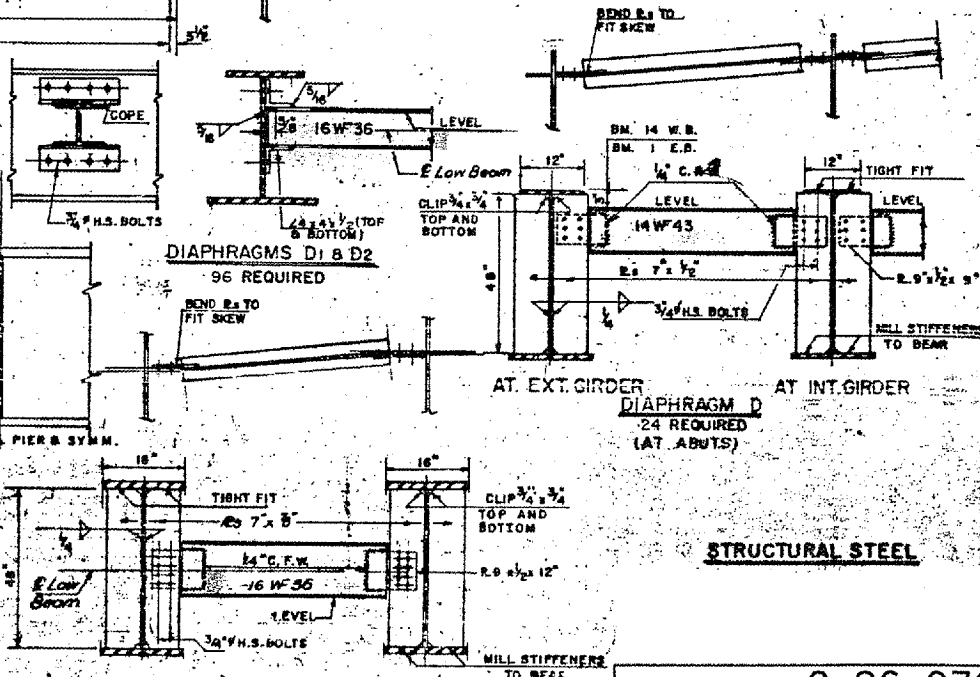
NOTES:
FULL PENETRATION BUTT WELD MAY
BE USED TO MAKE WEB SPLICE IN THE SHOP
IF PLATE CANNOT BE FURNISHED FULL LENGTH.
ALL BUTT WELDS SHALL O'VE OF THE
QUALIFIED JOINTS PERMITTED BY A.W.S. SPEC.
D20-66

3/4" x 4" CR1020
GRANULAR OR SOLID PLUX
FILLED HEADED STUD.
(336 REQ'D. EA. GIRDER)

SEC. A-A

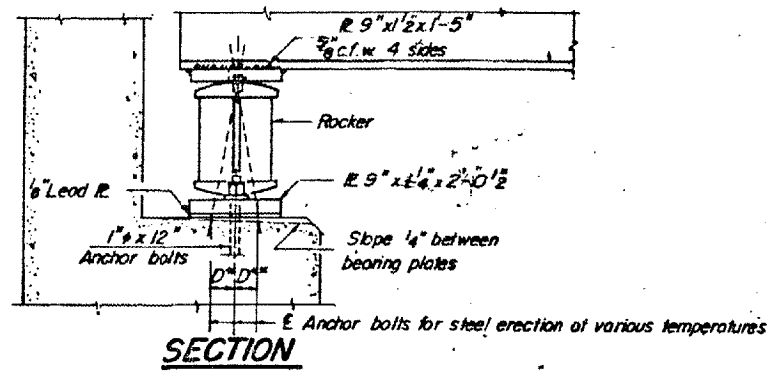


DETAIL OF FIELD SPLICES

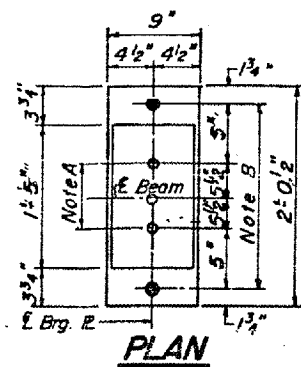


STRUCTURAL STEEL

C-96-031-08
SN 068-0042
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
(NOT TO SCALE)

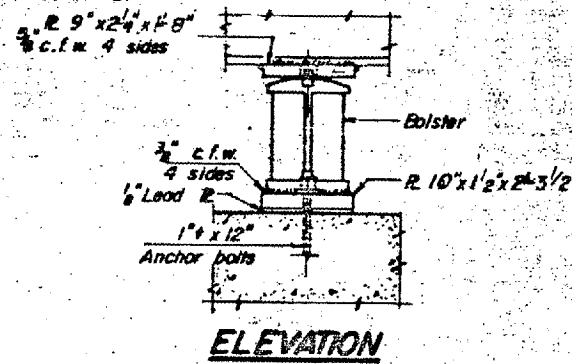


SECTION

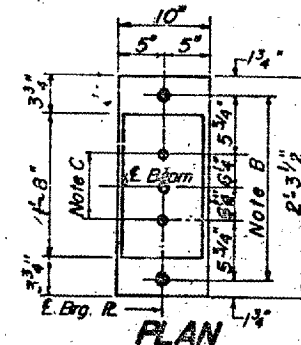


**PLAN
AT ABUTMENT**

NOTE A
1 3/8" Holes—1" deep in top R.
for pintles. Thread or press fit
pintles into bottom R.

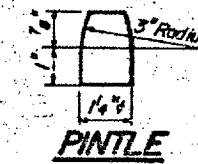


ELEVATION

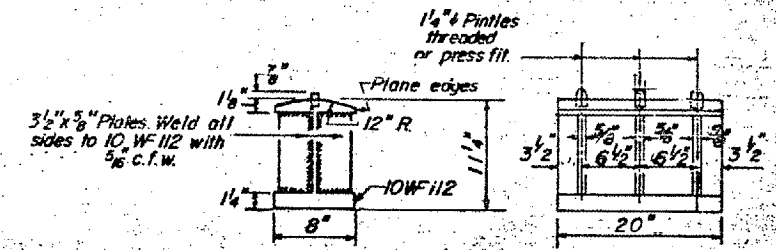


**PLAN
AT PIER**

NOTE B
1 1/2" Holes for 1" anchor bolts
2 1/2" x 2 1/2" x 3/16" R. Washers
under nut.



PINTLE



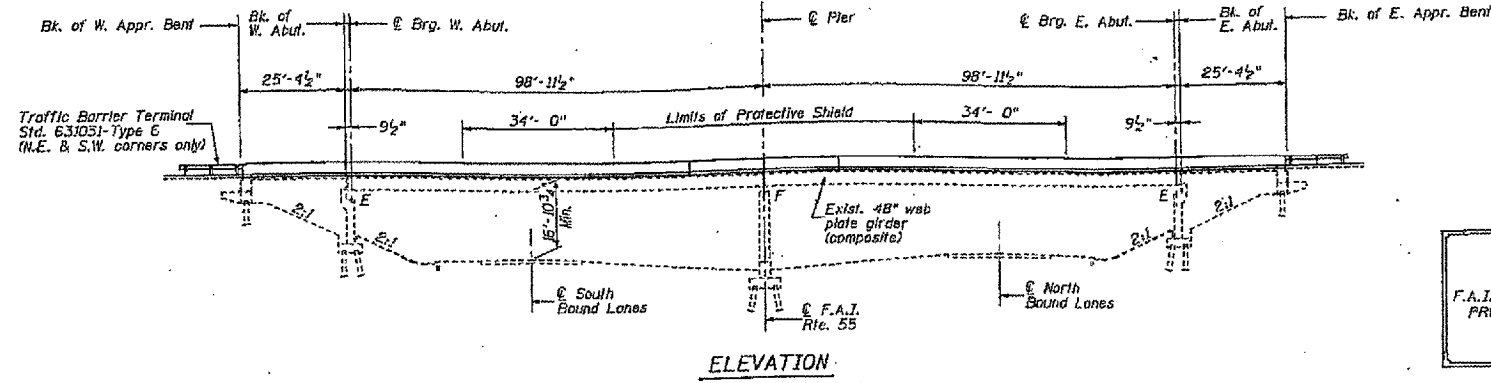
ROCKER



BOLSTER

NOTE C
1 3/8" Holes—1" deep in top R.
only for 1 1/4" pintles.

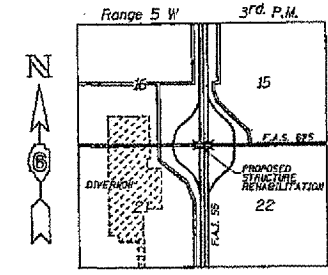
C-96-031-08
SN 068-0042
EXISTING BRIDGE PLANS
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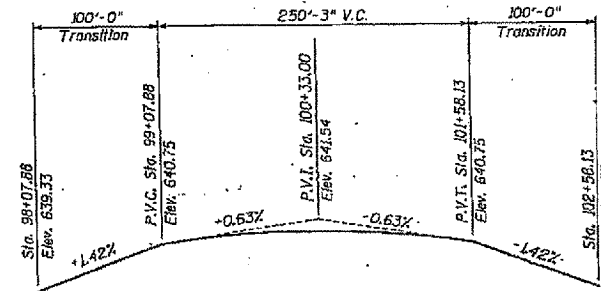
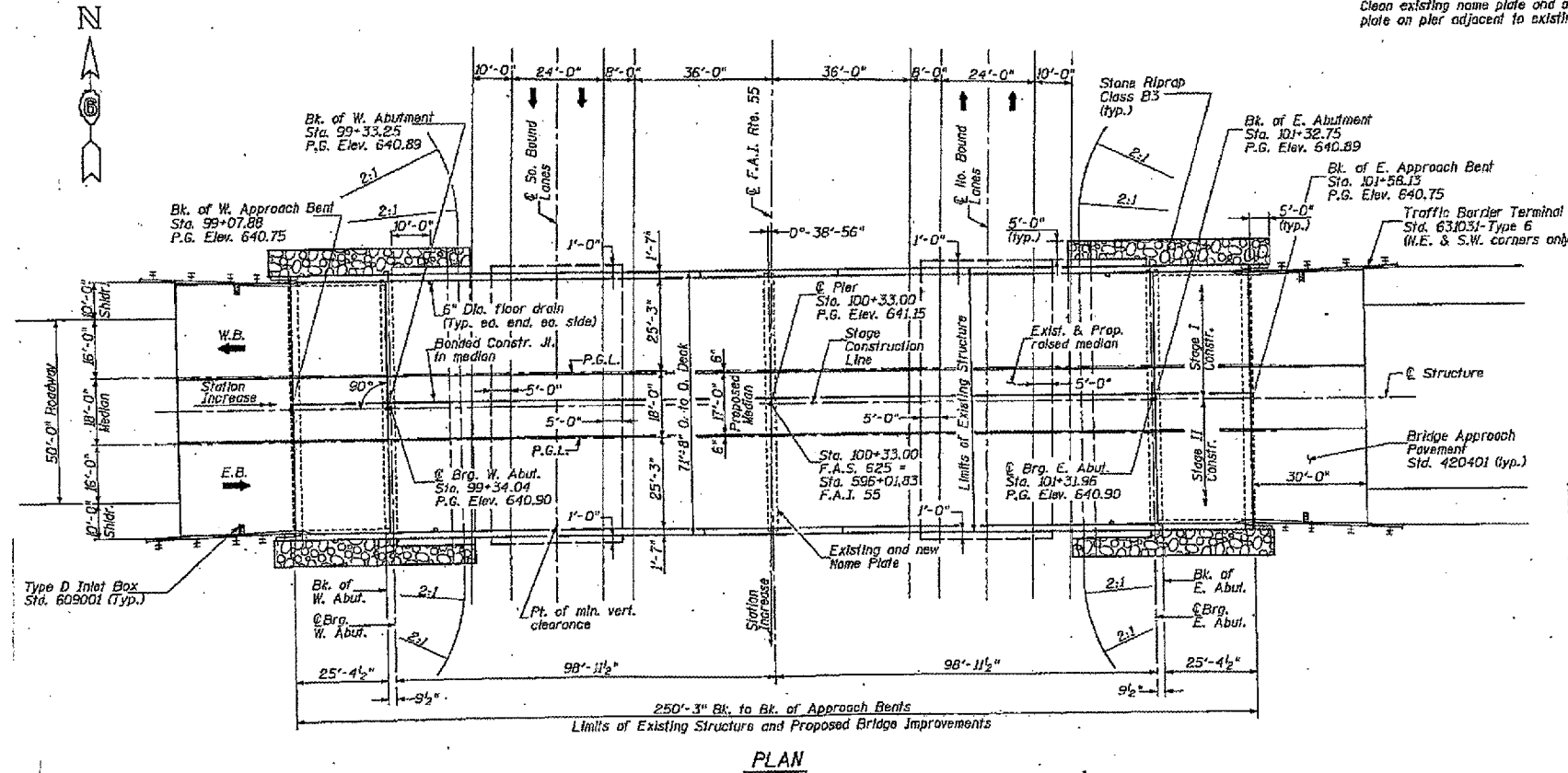
STATION 100+33.00
REBUILT 200 BY
STATE OF ILLINOIS
F.A.I. ROUTE 55 SEC. 84-5-2HB
PROJECT ACIM-055-3 (02)089
LOADING HS 20.
STR. NO. 084-0106

NAME PLATE
See Std. 515001

NOTE:
Clear existing name plate and attach new name plate on pier adjacent to existing name plate.

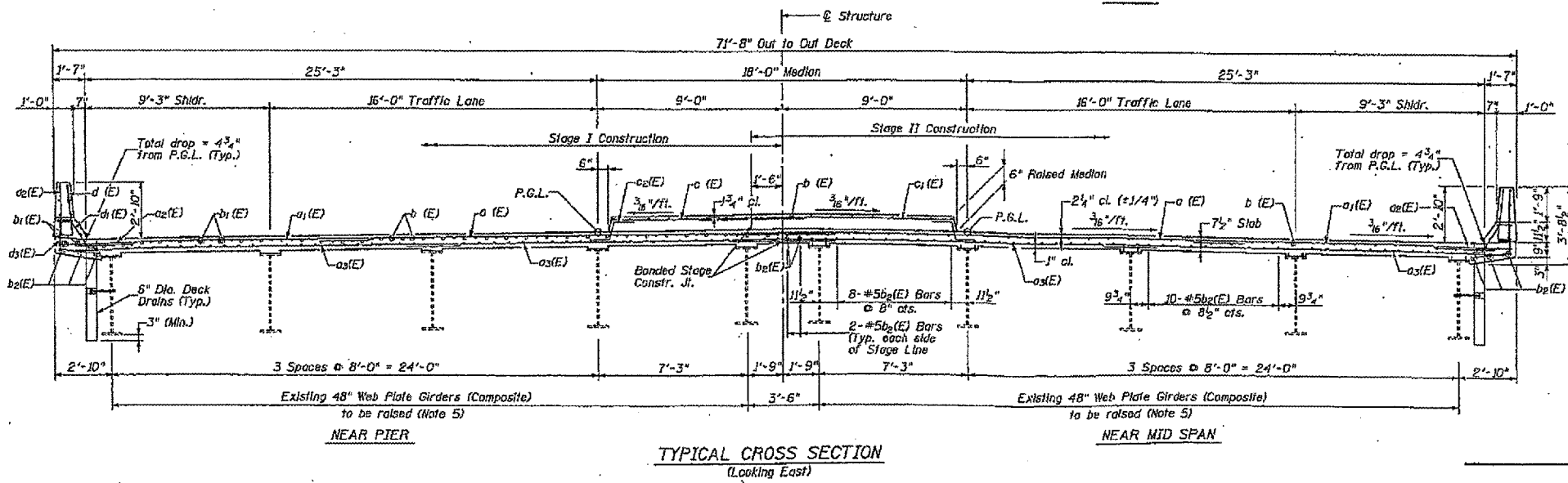
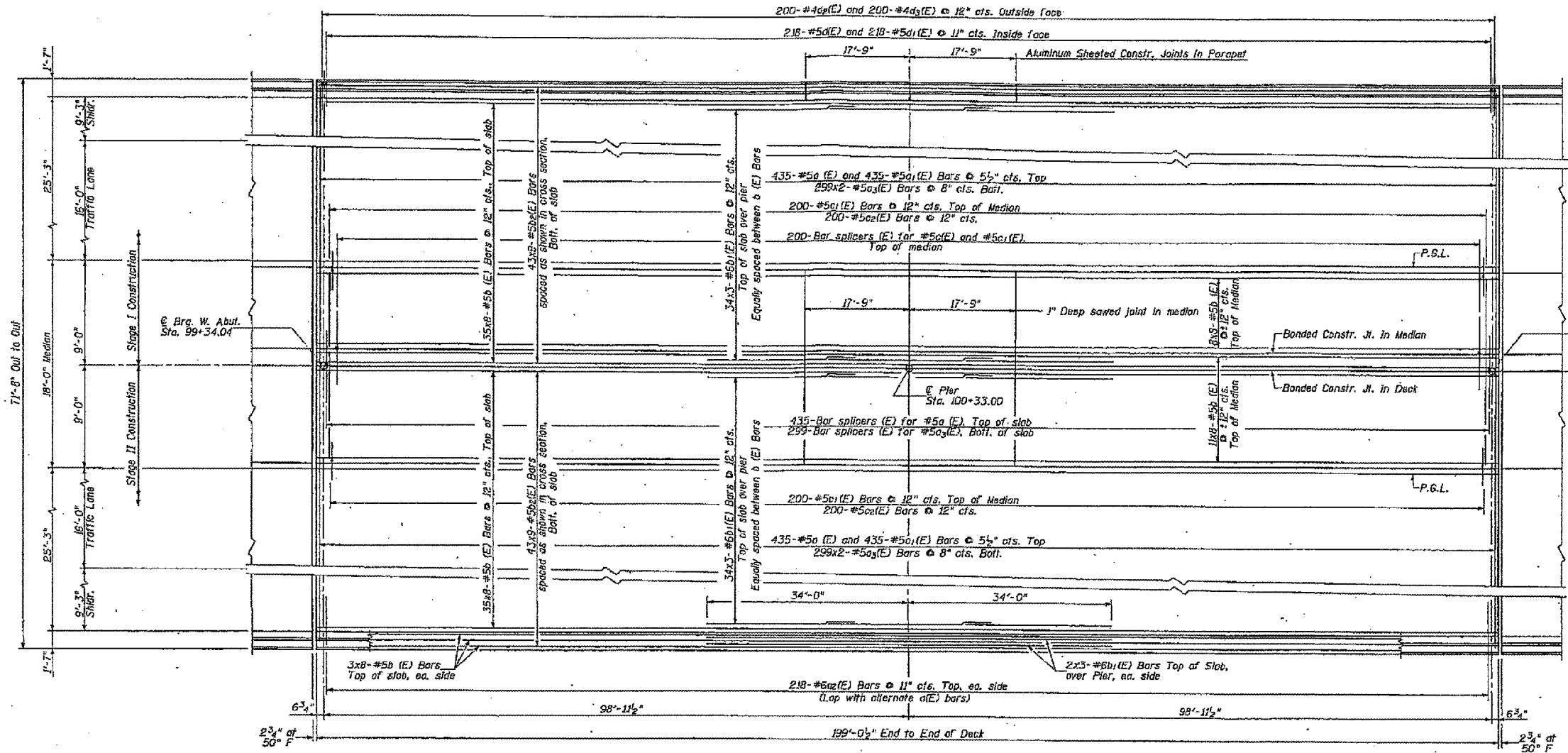


LOCATION SKETCH

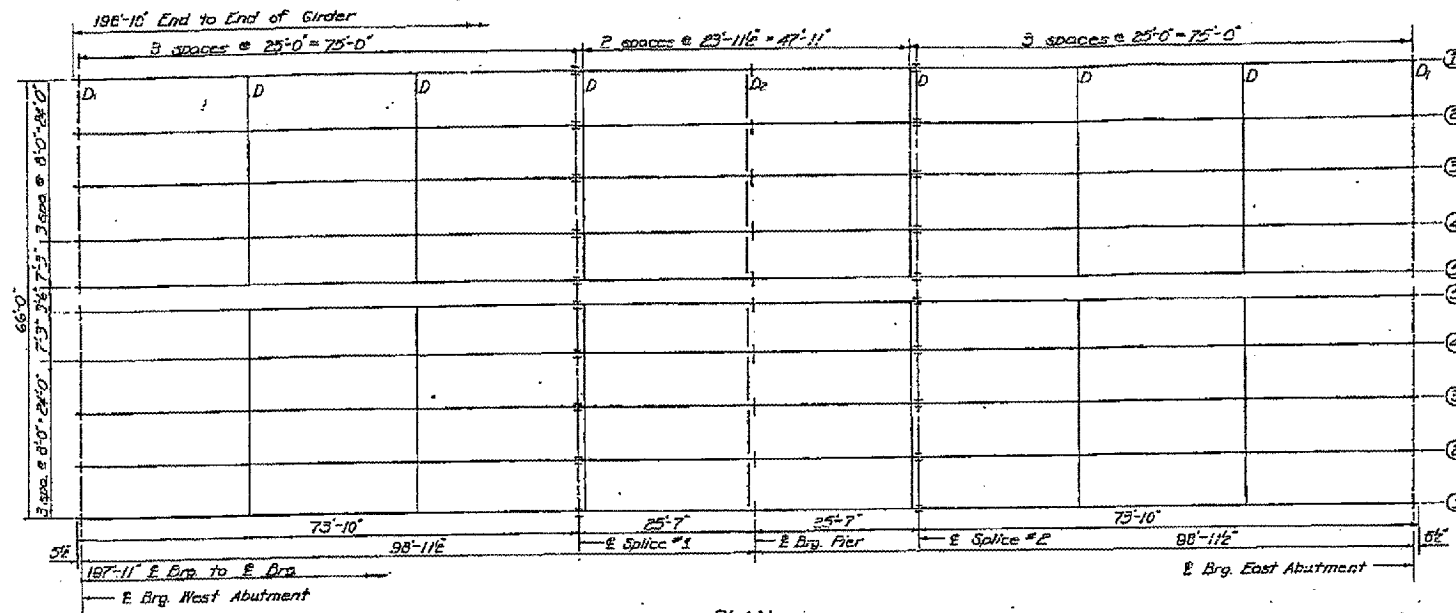


PROFILE GRADE F.A.S. 625
(Along Median Edge, Stationing along Median E)

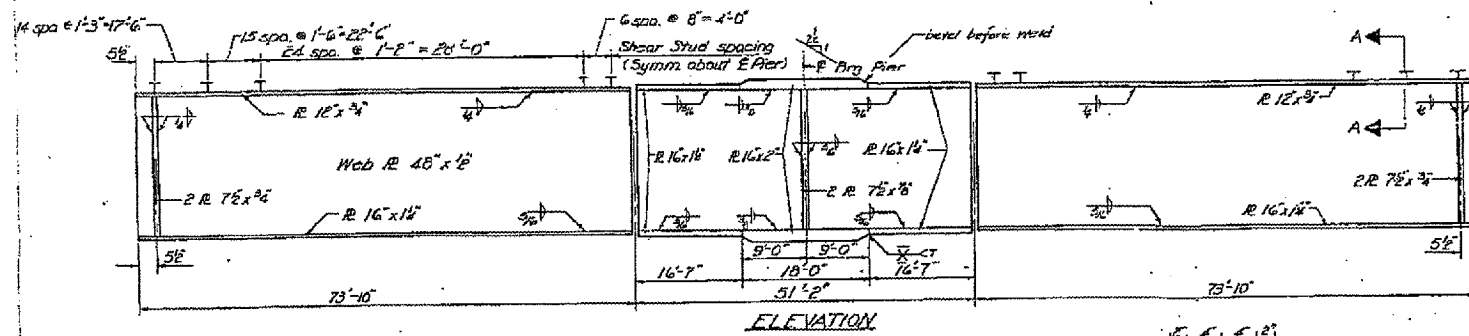
C-96-031-08
SN 084-0106
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
(NOT TO SCALE)



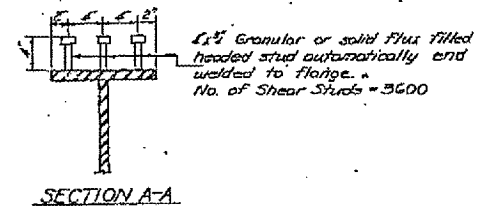
C-96-031-08
 SN 084-0106
 EXISTING BRIDGE PLANS
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 (NOT TO SCALE)



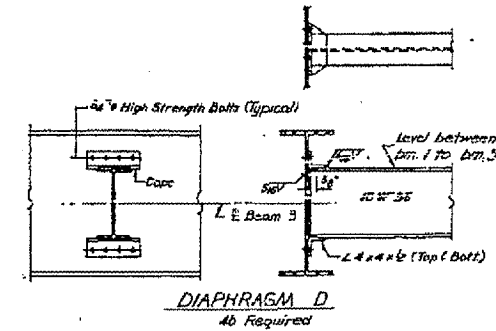
PLAN



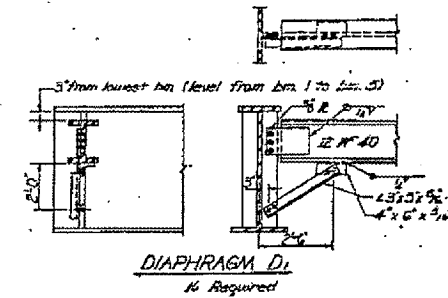
ELEVATION



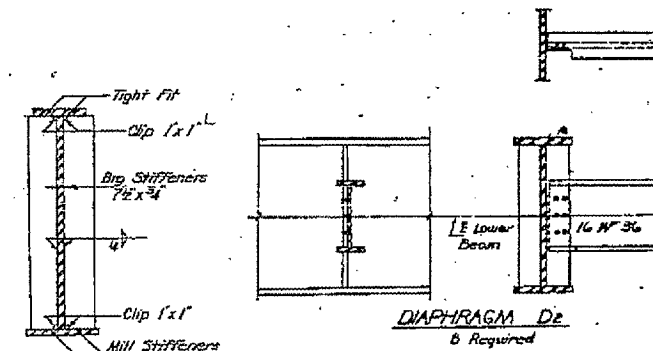
SECTION A-A



DIAPHRAGM D
4b Required

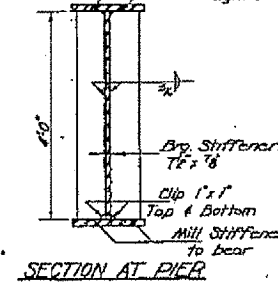


DIAPHRAGM D1
4 Required



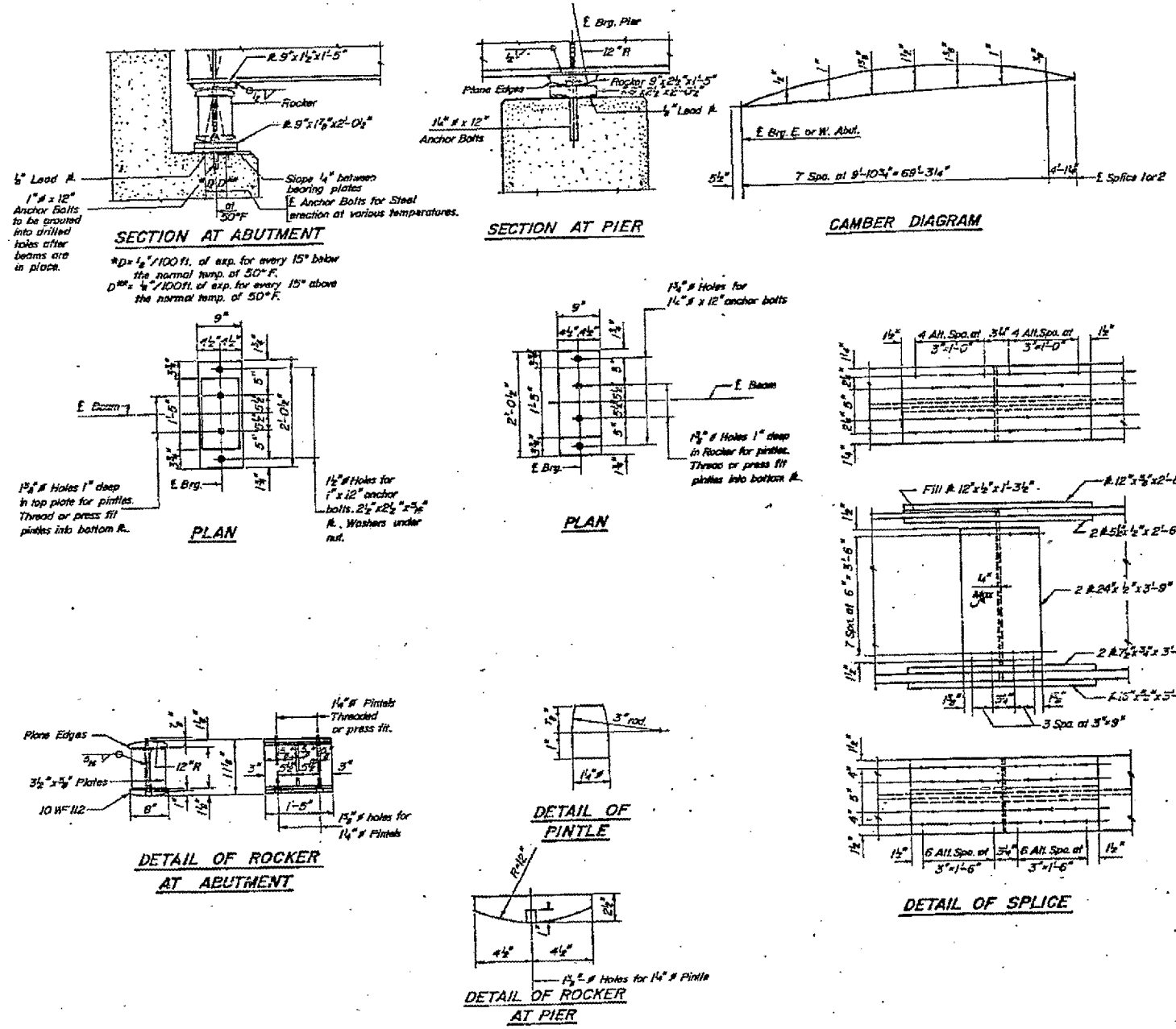
DIAPHRAGM D2
B Required

SECTION AT ABUTMENT



SECTION AT PIER

C-96-031-08
SN 084-0106
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
(NOT TO SCALE)



C-96-031-08
 SN 084-0106
 EXISTING BRIDGE PLANS
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