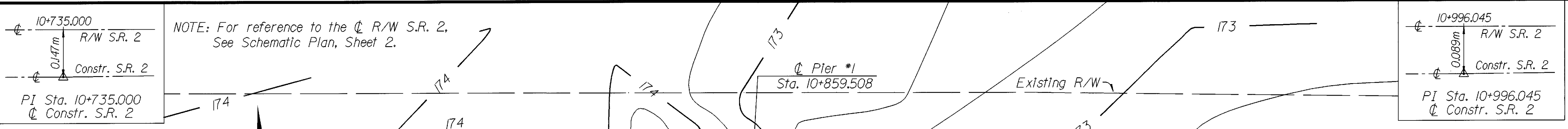
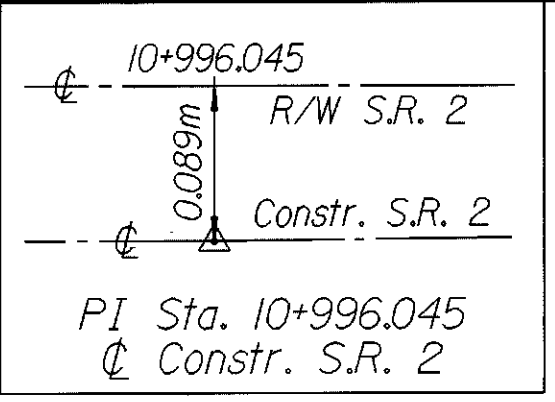


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NOTE: For reference to the  $\phi$  R/W S.R. 2. See Schematic Plan, Sheet 2.



**Hydraulic Data**

Drainage Area	= 71.0 km <sup>2</sup>
Q <sub>25</sub>	= 32.8 m <sup>3</sup> /s
HW <sub>25</sub>	= 175.724
V <sub>25</sub>	= 0.0 m/s
Q <sub>100</sub>	= 39.9 m <sup>3</sup> /s
HW <sub>100</sub>	= 176.174
V <sub>100</sub>	= 0.0 m/s

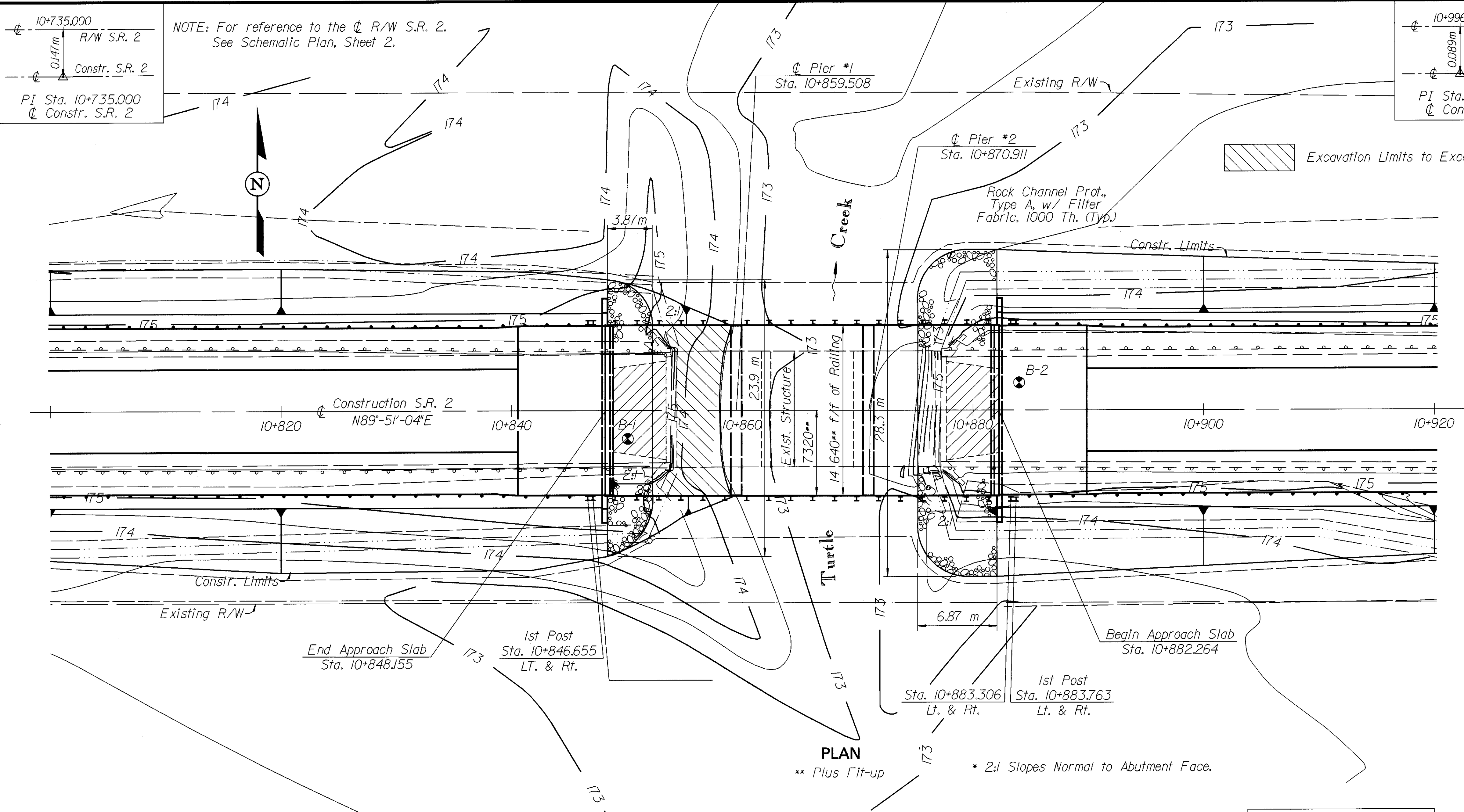
**Design Traffic**  
 Current ADT (1999) ~ 10280  
 Design year ADT (2019) ~ 14120  
 Design year ADTT (2019) ~ 3248

● - Indicates Soil Boring Location

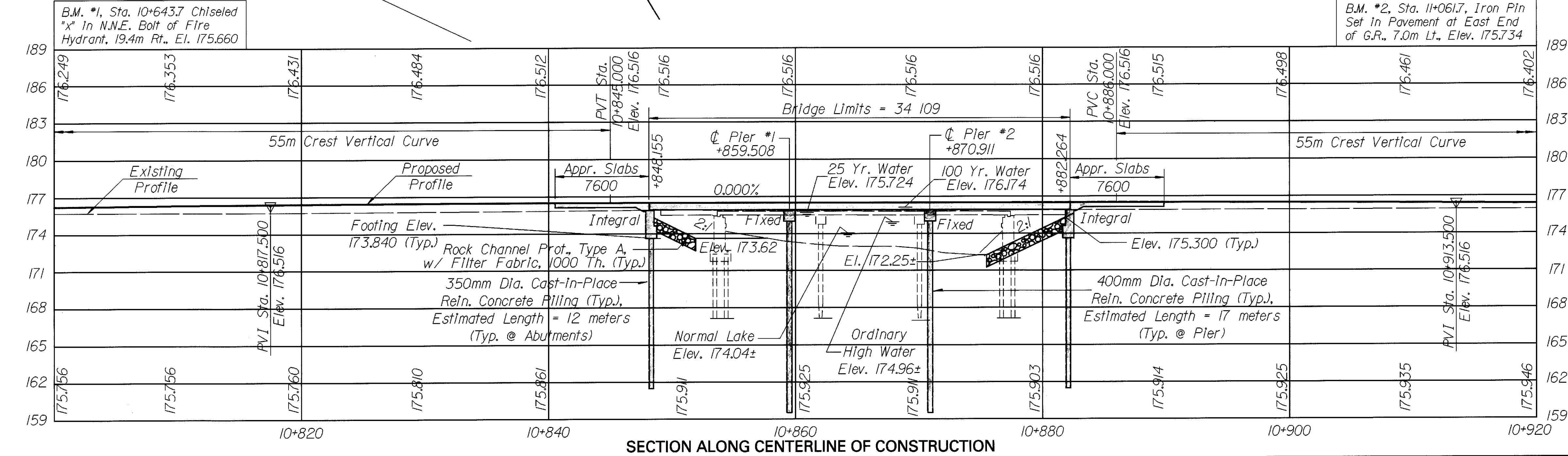
NOTE: Earthwork Limits shown are approximate; actual slopes shall conform to plan cross sections.

The lowest elevation to the bottom of the superstructure clears the HW25 (Design year discharge) water surface elevation by approx. 0.10m

NOTE: All dimensions are in millimeters unless otherwise noted. Stations and elevations however are in meters.



**PLAN**  
 \*\* Plus Fit-up \* 2:1 Slopes Normal to Abutment Face.



**SECTION ALONG CENTERLINE OF CONSTRUCTION**

EXISTING STRUCTURE	
TYPE:	Continuous Concrete Slab with Wall Type Abutments & Capped Piled Piers
SPANS:	7 315±-8 834±-7 315± c/c Bearing
ROADWAY WIDTH:	10 350± f/f of Railing
OVERALL WIDTH:	10 350±
SKREW:	None
DISPOSITION:	To Be Removed
ALIGNMENT:	Tangent As Per Item 202
DATE BUILT:	1941
CONDITION:	Poor
APPROACH SLABS:	AS-1-54 (4 572 Long)
WEARING SURFACE:	Concrete
STRUCTURE FILE NUMBER:	6200095
PROPOSED STRUCTURE	
TYPE:	Three Span Prestressed Concrete Composite Box Beams on Integral Abutments on Concrete Piles & Cap & Column Piers on Concrete Piles
SPAN:	10 603-10 953-10 603 c/c Bearings
ROADWAY WIDTH:	14 640+Fitup f/f of Railing
SKREW:	None
ALIGNMENT:	Tangent
APPROACH SLAB:	7 600 (AS-1-81M)
WEARING SURFACE:	155 Min. Rein. Concrete
SUPERELEVATION:	None
CROWN:	0.016
LOADING:	MS18 and the Alternate Military Loading
LATITUDE:	N41°-35'-30"
LONGITUDE:	W83°-09'-15"

DESIGN AGENCY: DISTRICT ONE PRODUCTION DEPARTMENT

DATE: 5-5-19

REVIEWED: JRC

STRUCTURE FILE NO: 6200109

DRAWN: JSS

DESIGNED: JSS

CHECKED: JTB

REVIS

OTAWA COUNTY

Sta. 10+848.155

Sta. 10+882.264

**SITE PLAN**

Bridge No. OTT-2-10848

Over Turtle Creek

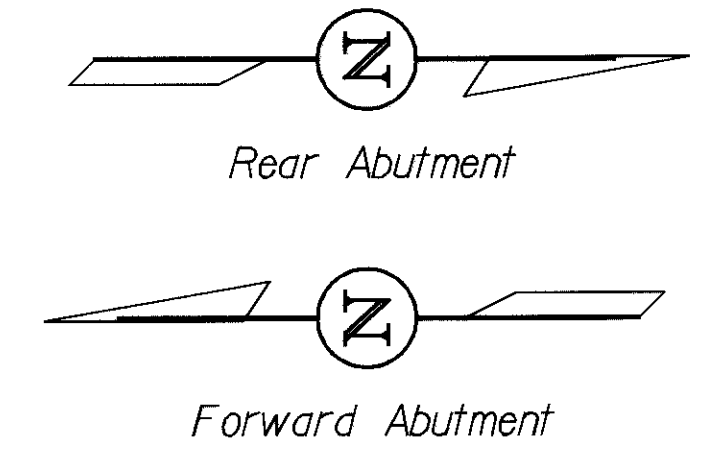
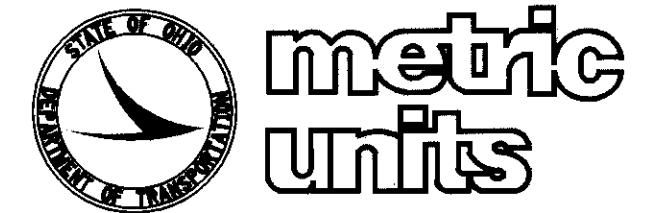
OTT-2-10.735/17.135

1/11

45

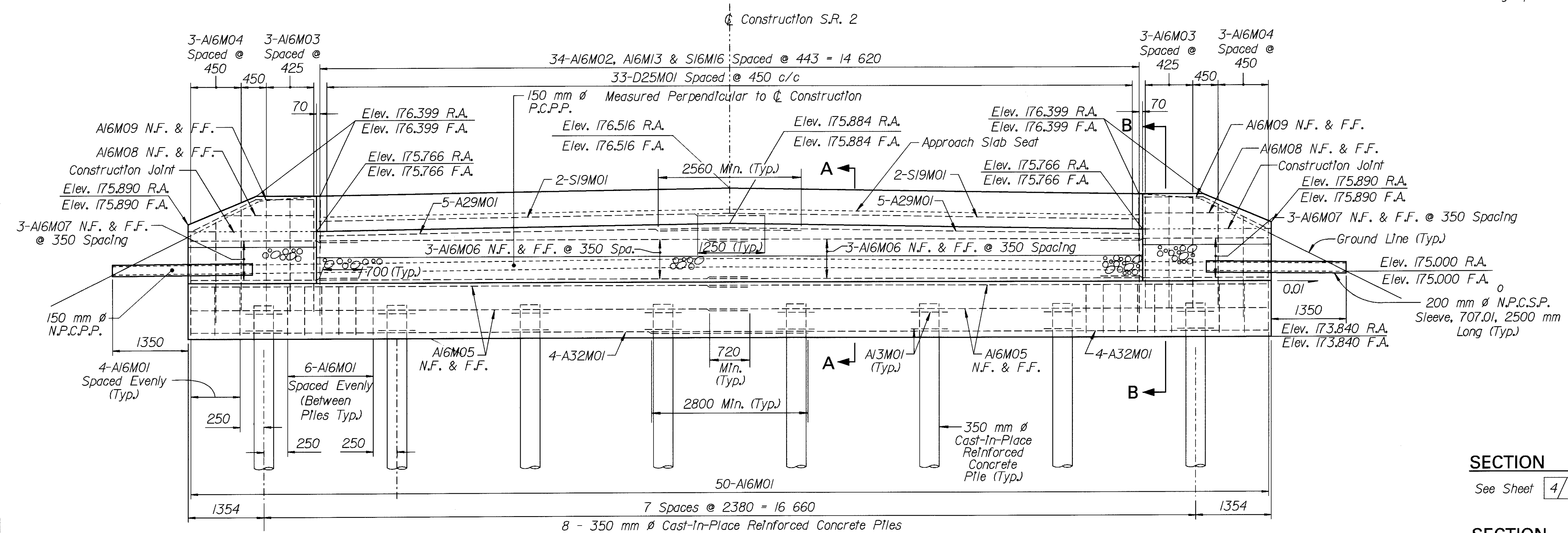
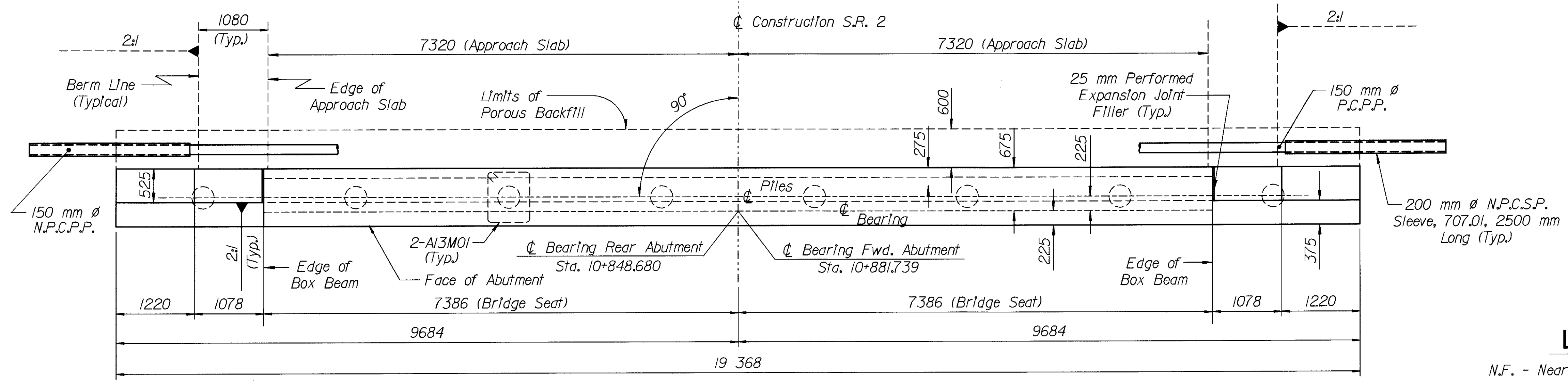
73





### LEGEND

- N.F. = Near Face
- R.F. = Rear Face
- R.A. = Rear Abutment
- F.A. = Forward Abutment
- P.C.P.P. = Perforated Corrugated Plastic Pipe
- N.P.C.P.P. = Non-Perforated Corrugated Plastic Pipe, Including Specials
- N.P.C.S.P. = Non-Perforated Corrugated Steel Pipe, Including Special



### NOTES:

**Porous Backfill:** With filter fabric, 600mm thick shall extend up to the plane of the subgrade, to 300mm below the embankment surface, and laterally to the ends of the wingwalls. Geotextile fabric shall conform with 712.09, Type A. The bottom of the porous backfill shall be sloped (0.08 min.) laterally to drain. Geotextile fabric is included with porous backfill for payment.

### ABUTMENT ELEVATION

Abutment concrete above the beam seat shall not be placed until the prestressed box beams have been placed.

All dimensions are in millimeters, unless otherwise noted except for stations and elevations which are in meters.

### SECTION A-A

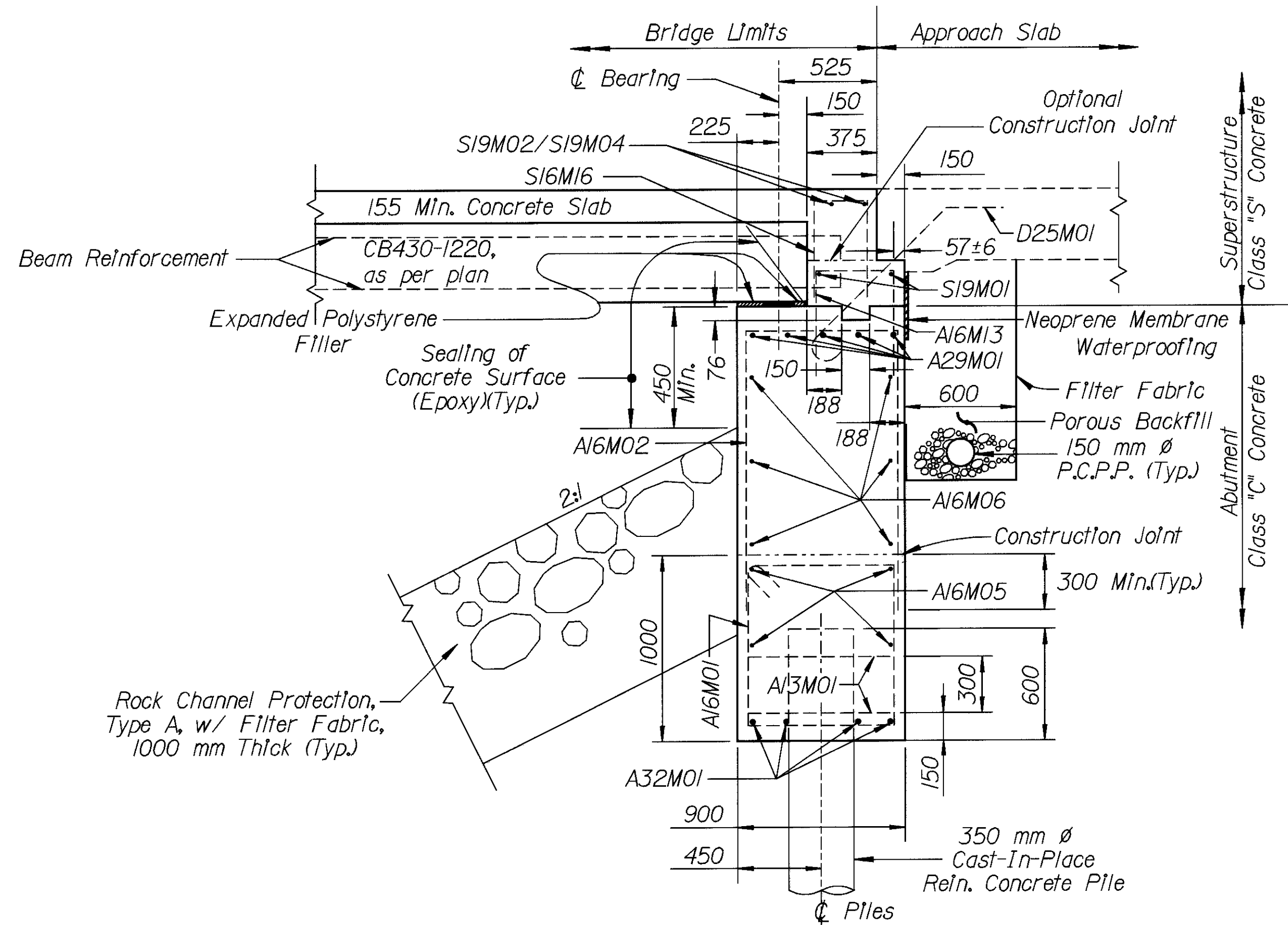
See Sheet 4/11

### SECTION B-B

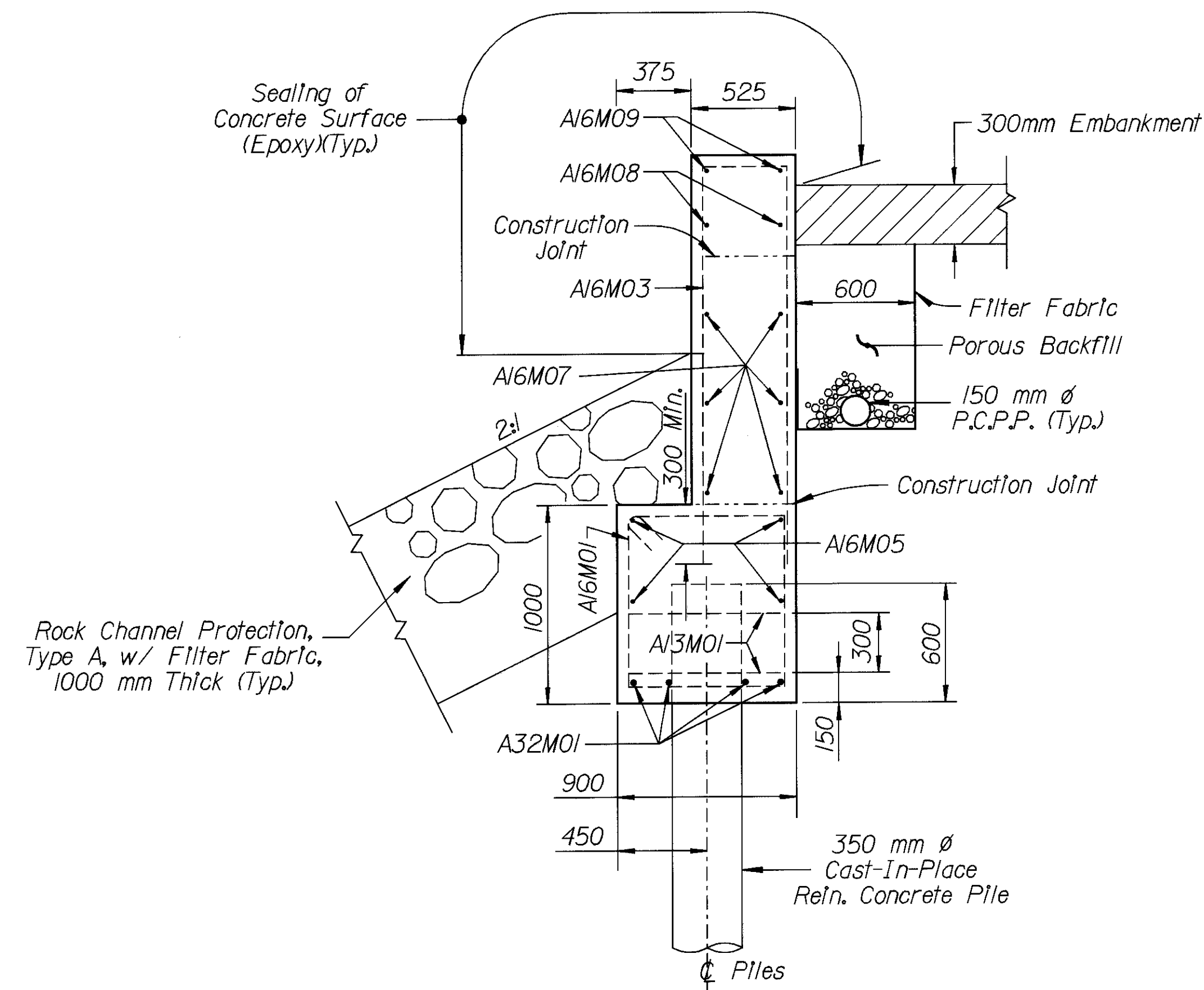
See Sheet 4/11

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 STRUCTURE FILE NUMBER: 6200109  
 REVIEWED: JRC  
 DRAWN: EJS  
 DESIGNED: EJS  
 CHECKED: JTB  
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 Bridge No. OTT-2-10848  
 over Turtle Creek  
 OTT-2-10.73517.135  
 3/11  
 47/73

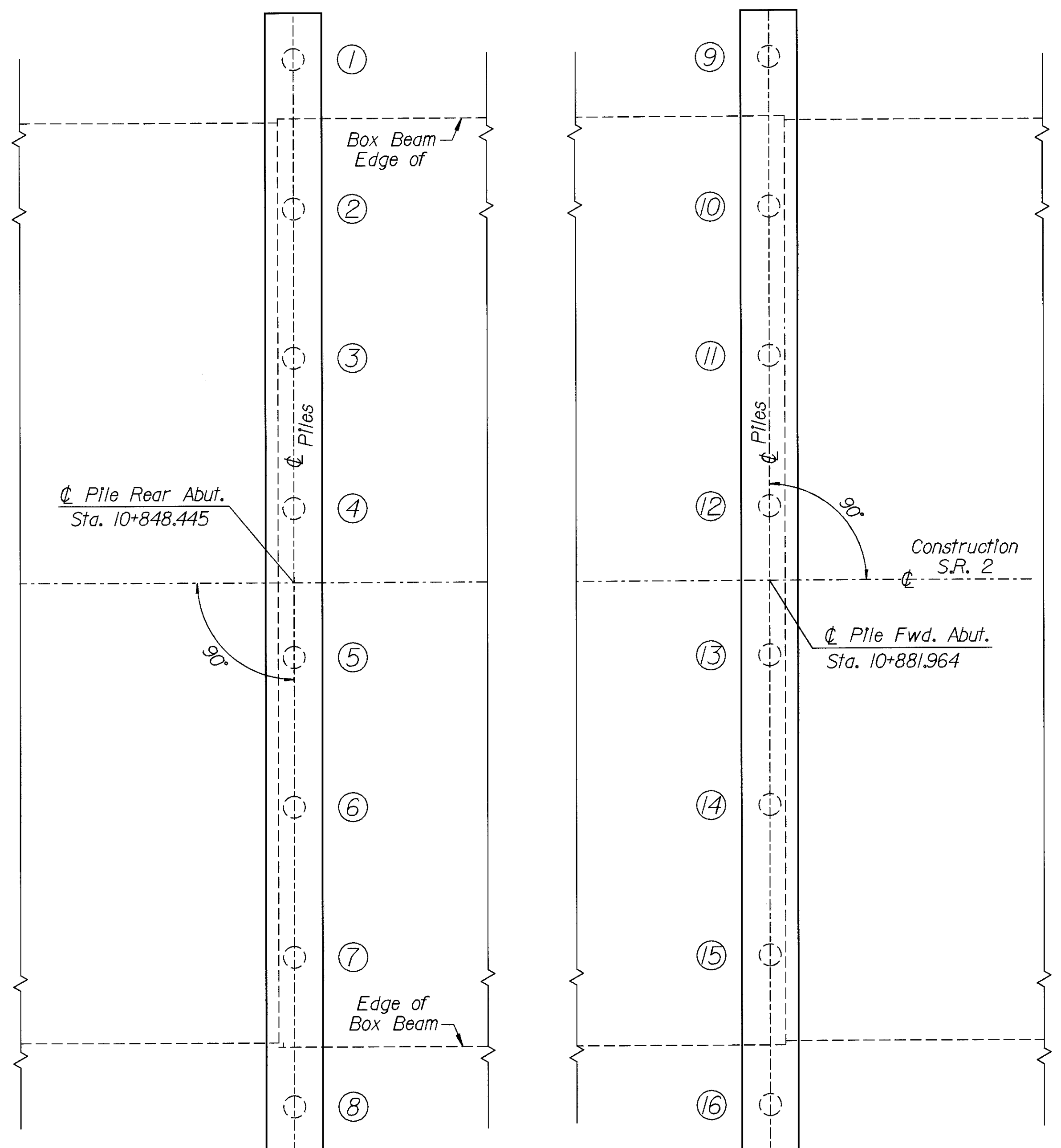
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SECTION A-A



SECTION B-B

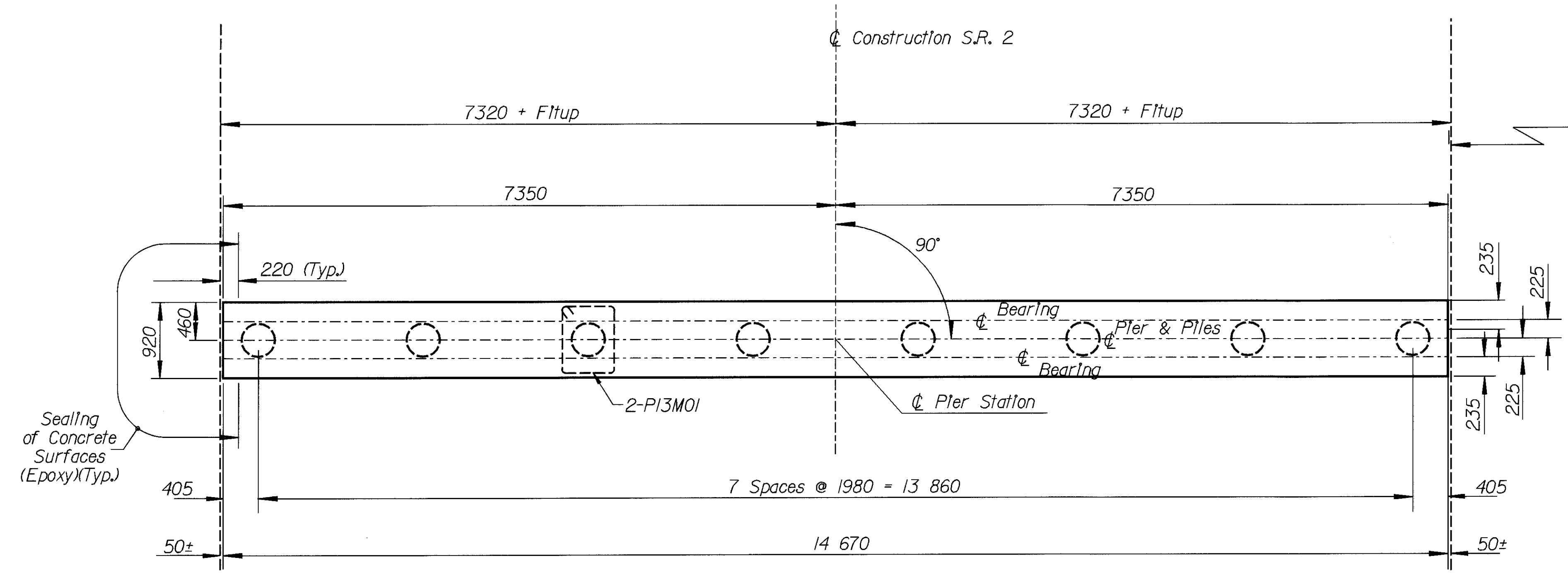


ABUTMENT PILE NUMBERING DIAGRAM

**LEGEND**  
P.C.P.P. - Perforated Corrugated Plastic Pipe

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 FILE NAME \*\*\*\*\* DESIGN FILE NAME \*\*\*\*\*  
 DATE & TIME \*\*\*\*\*  
 USER NAME \*\*\*\*\*  
 PROJECT \*\*\*\*\*  
 LEVELS ON \*\*\*\*\*  
 PLOT QUEUE \*\*\*\*\*  
 PEN TABLE \*\*\*\*\*

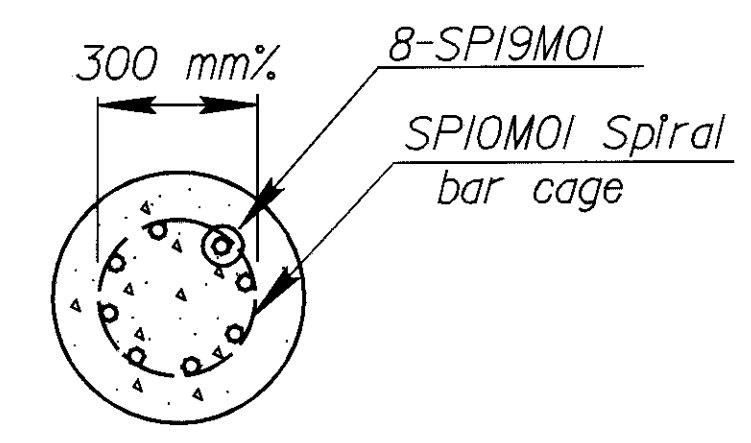
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 REF. FILE #99 \*\*\*\*\*REF. FILE NAME \*\*\*\*\*  
 REF. FILE #100 \*\*\*\*\*REF. FILE NAME \*\*\*\*\*



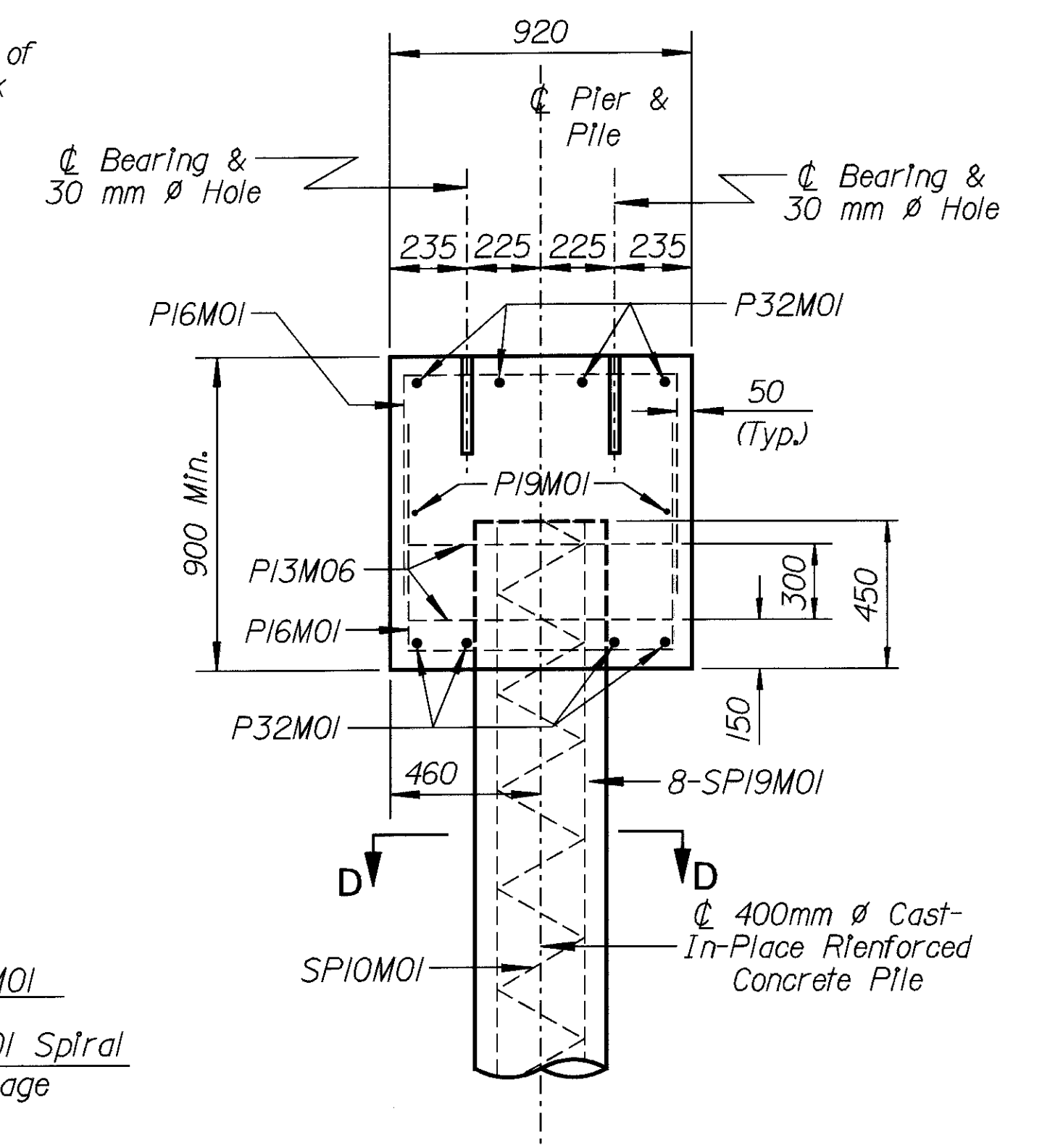
**CENTERLINE PIER STATIONS AND ELEVATIONS**

Pier Number	Cl. Pier Station	Lt. Elevation	Cl. Elevation	Rt. Elevation
Pier #1	Sta. 10+859.508	175.766	175.884	175.766
Pier #2	Sta. 10+870.911	175.766	175.884	175.766

NOTE: Elevations are along the Cl. of the Piers



**SECTION D-D**



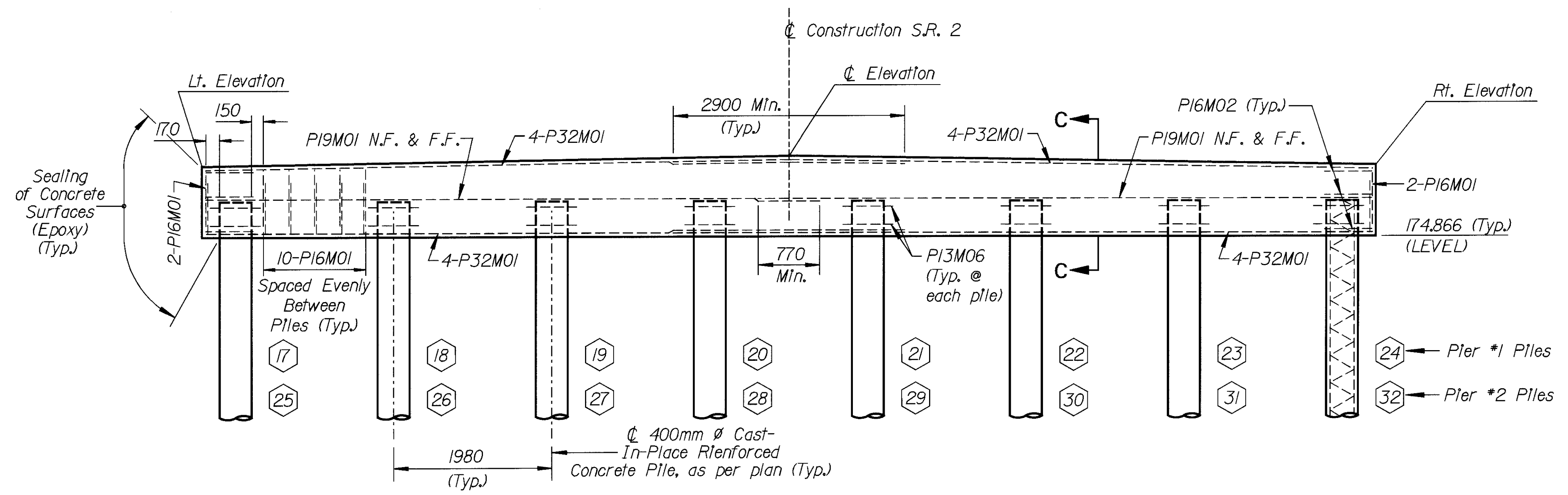
**SECTION C-C**

**LEGEND**  
 N.F. - Near Face  
 F.F. - Far Face

Bridge Seat Reinforcing: Reinforcing steel in the vicinity of the bridge seat shall be placed accurately to avoid interference with the drilling of anchor bar holes.

Reference Standard Drawing CPP-2-94M for Cast-In-Place Reinforced Concrete Piles

All dimensions are in millimeters, unless otherwise noted except for Stations and Elevations which are in Meters.

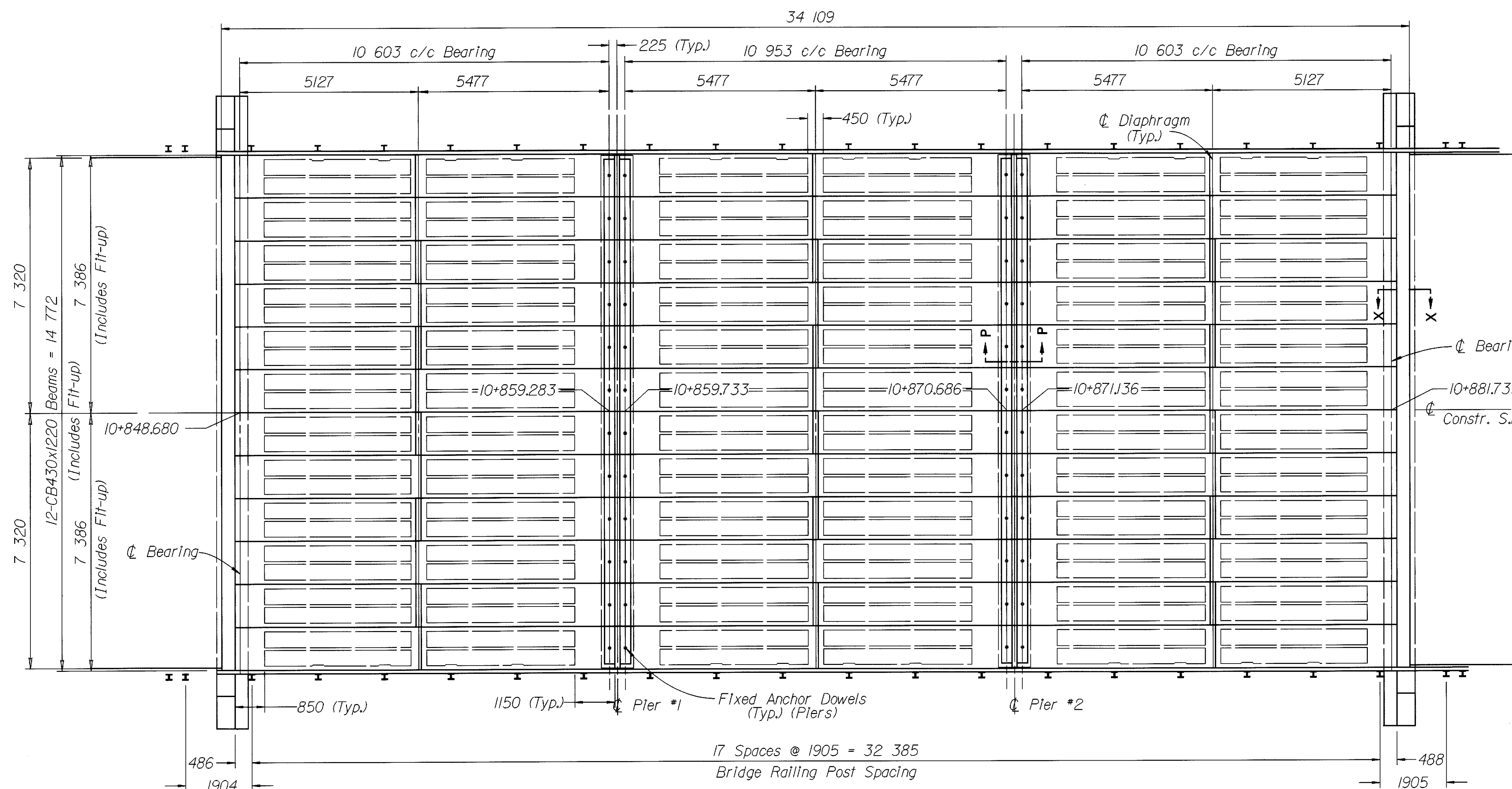


**PIER ELEVATION VIEW**

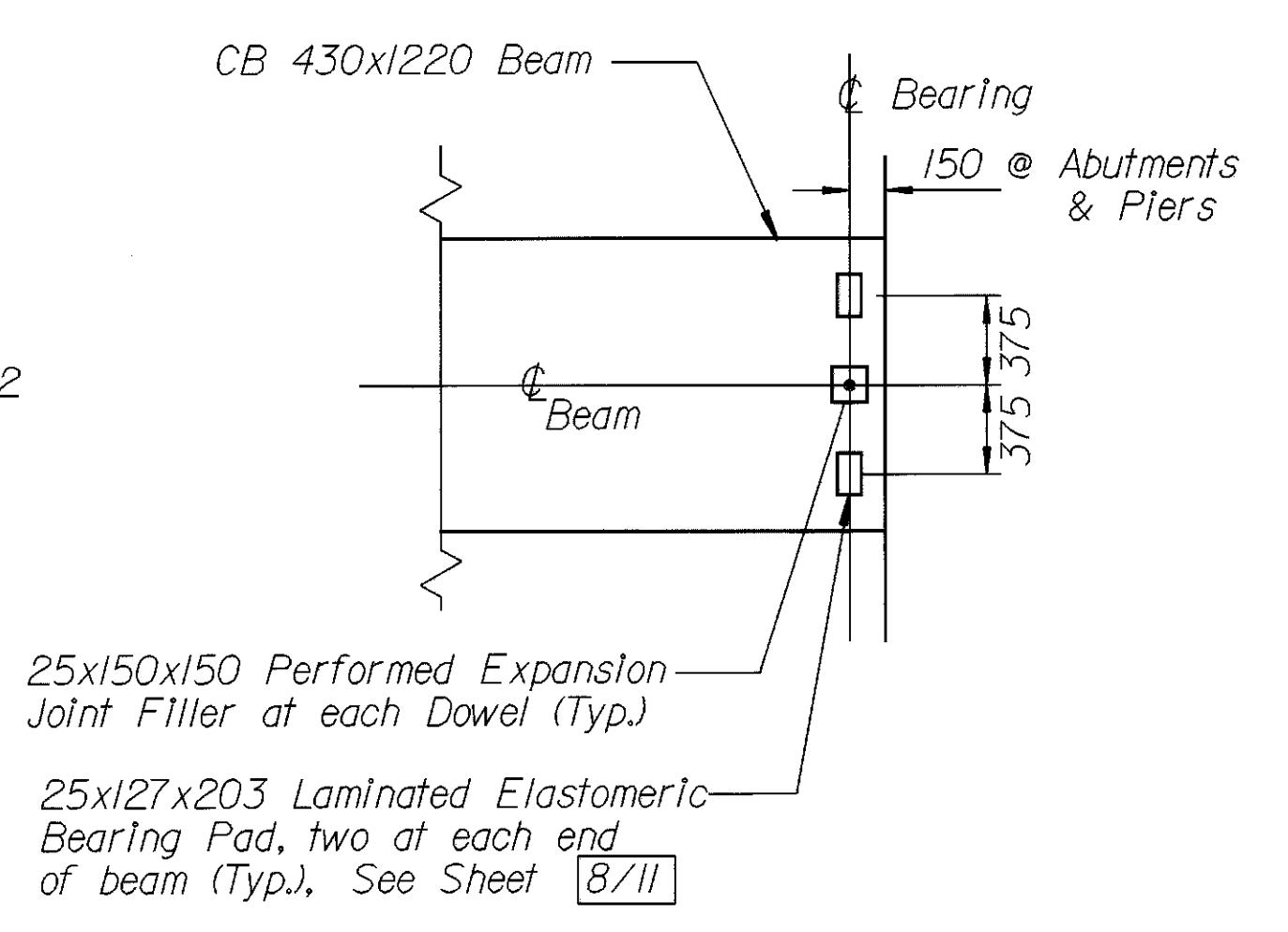
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REF. FILE #48: \_\_\_\_\_  
REF. FILE #49: \_\_\_\_\_  
REF. FILE #50: \_\_\_\_\_

FILE NAME: I:\projects\9903\9903.dwg  
DATE & TIME: 04-Mar-99 17:42  
USER NAME: jessie  
PROJECT: NONE

LEVELS ON: I-H4J  
PLOT QUEUED: VDDIPL01.vnt  
PEN TABLE: I:\tools\pen.tbl

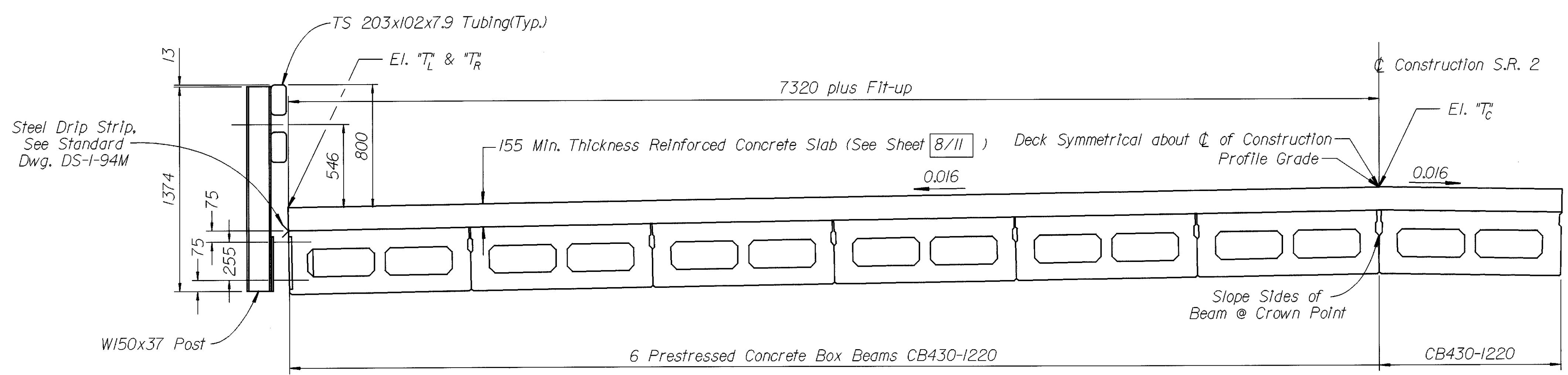


**SUPERSTRUCTURE FRAMING PLAN**



**SECTION X-X**  
See Sheet 8/11

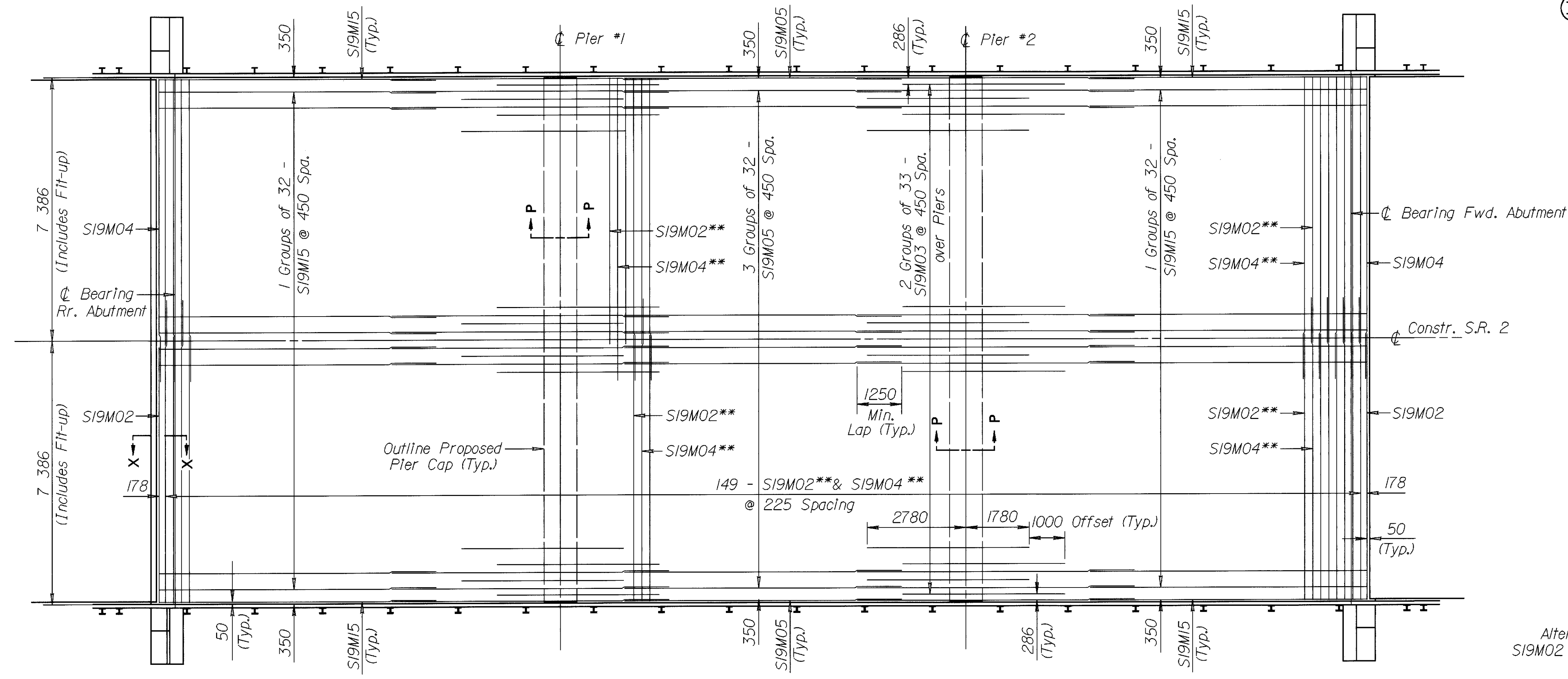
**SECTION P-P**  
See Sheet 7/11



**HALF TRANSVERSE SECTION**  
For Elevations T<sub>L</sub>, T<sub>R</sub> & T<sub>C</sub> See Sheet 8/11

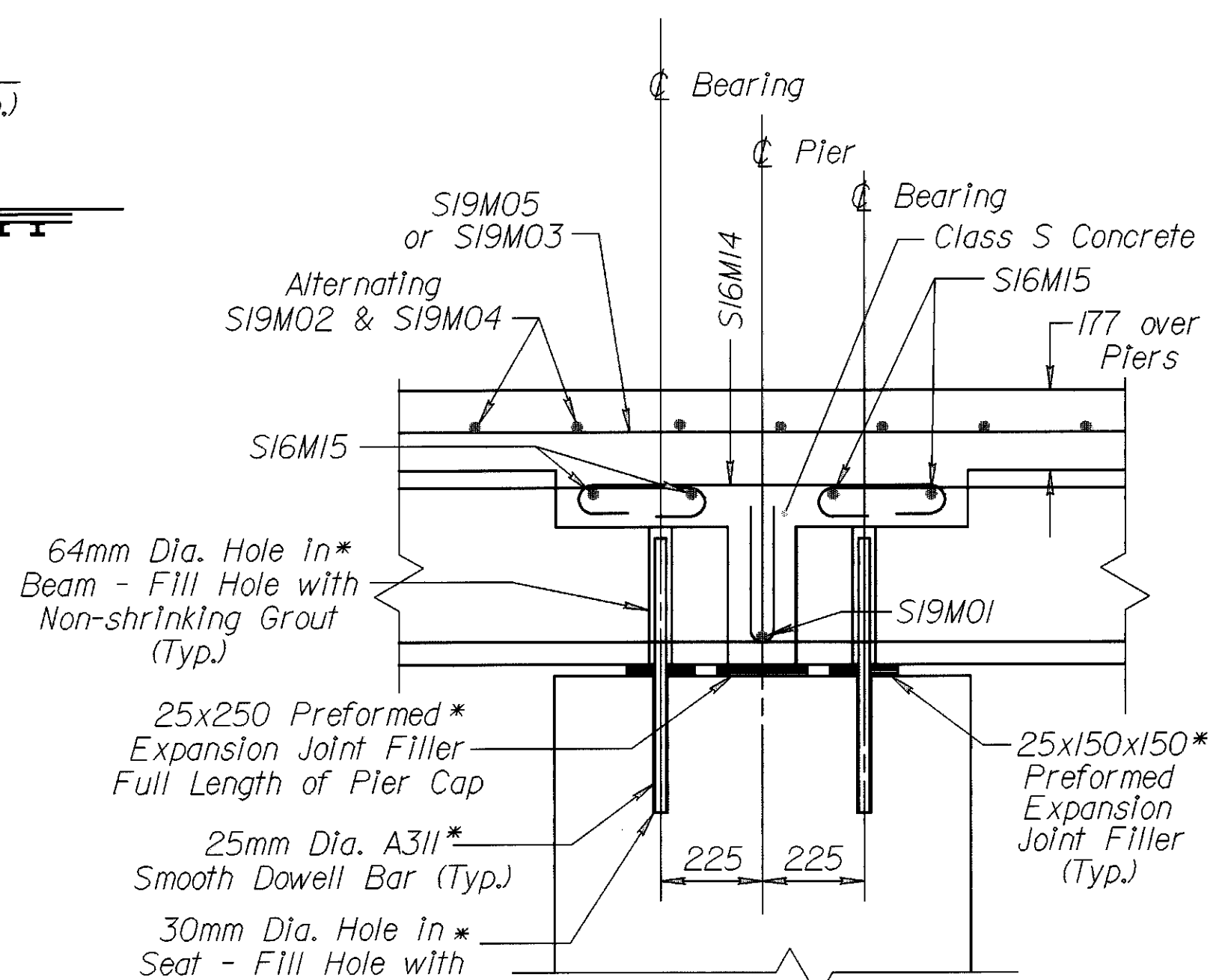
NOTE: All dimensions are in millimeters unless otherwise noted. Stations and elevations however are in meters.

NOTE: All dimensions are in millimeters unless otherwise noted. Stations and elevations however are in meters.



**SUPERSTRUCTURE DECK PLAN**  
(Reinforcement)

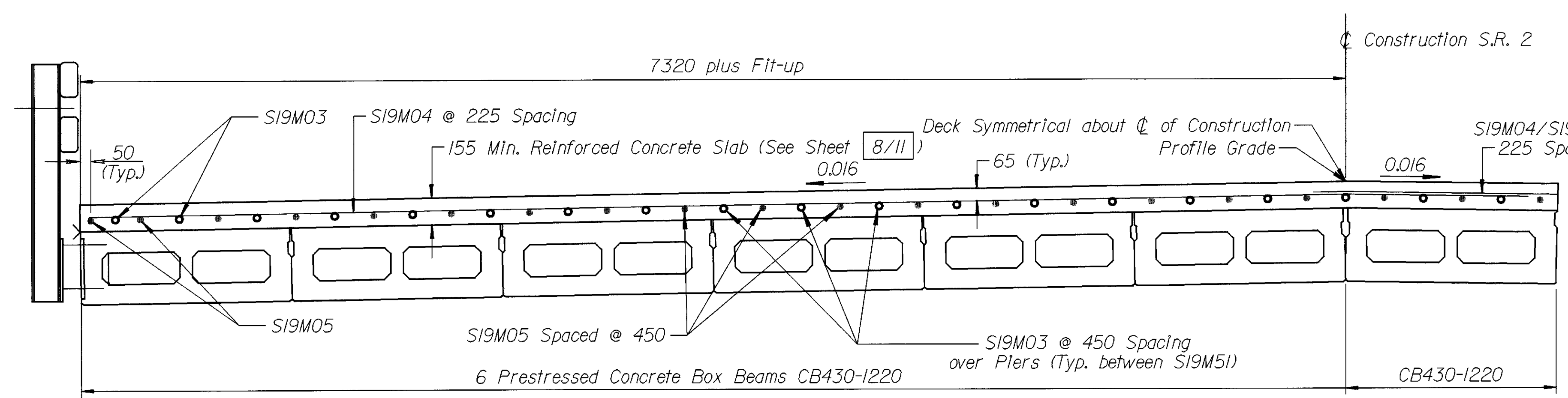
**SECTION X-X**  
See Sheet 8/11



**SECTION P-P**

\* Include with Item 865  
Prestressed Concrete Beam

\*\* Alternate Bars so Laps  
Alternate from Right to  
Left of  $\phi$  Construction



**HALF TRANSVERSE SECTION**

REF. FILE #1: LEVELS ON:  
REF. FILE #1: LEVELS ON:  
REF. FILE #2: LEVELS ON:  
REF. FILE #2: LEVELS ON:  
REF. FILE #3: LEVELS ON:  
REF. FILE #3: LEVELS ON:  
REF. FILE #4: LEVELS ON:  
REF. FILE #4: LEVELS ON:  
LEVELS ON: (1-64)  
PLOT QUEUE: \DDI\PILOT\vinlar  
PEN TABLE: \DDI\DDI\plotcross.pen  
FILE NAME: I:\proj\1007\899\2\0866\bridge\1008ref3.dgn  
DATE & TIME: 05-MAR-1999 12:14  
USER NAME: esscheke  
PROJECT: NONE

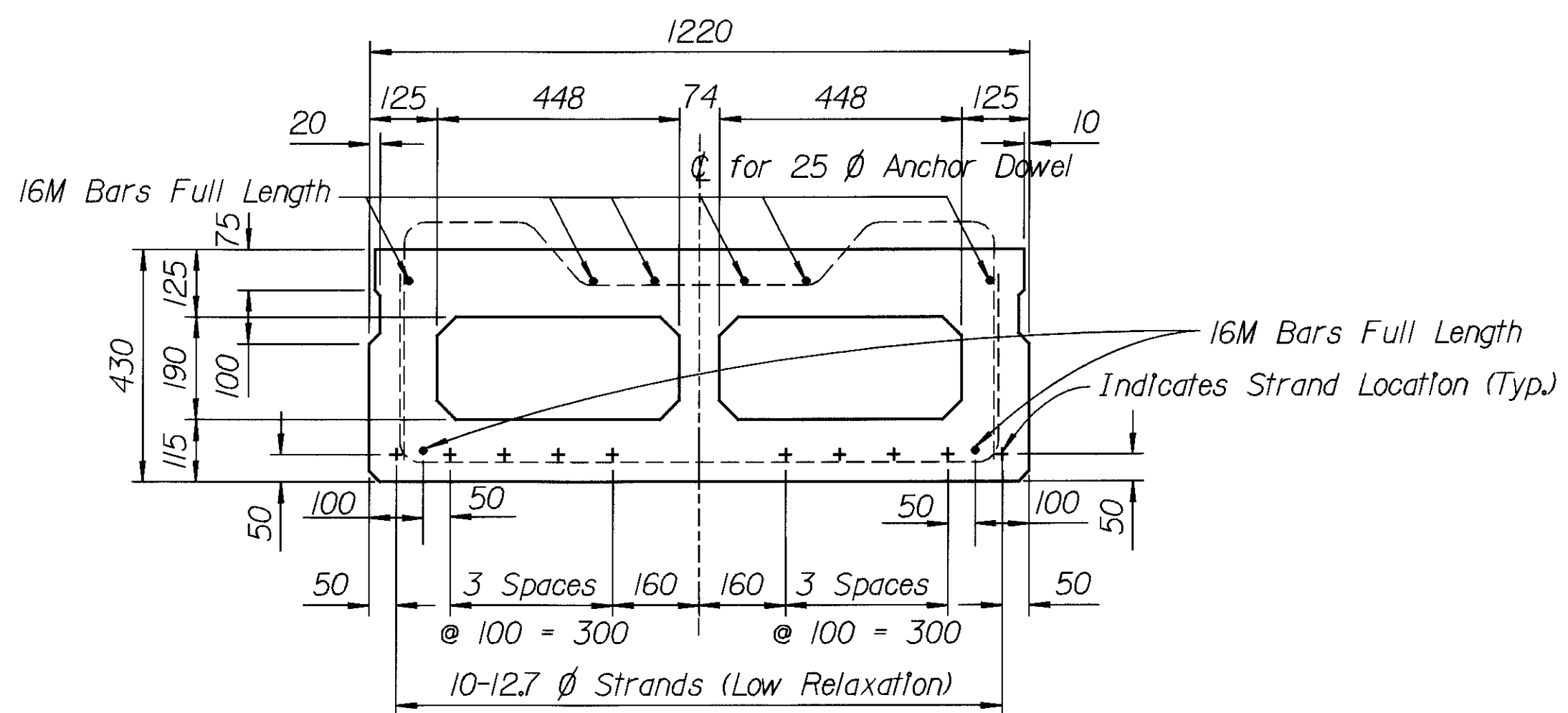
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 REF.FILE \*99: \*\*\*\*\*  
 REF.FILE \*100: \*\*\*\*\*

**Camber**  
 Calculated camber at time of paving, including allowance for camber growth due to creep, is 27mm.

Calculated deflection due to weight of Reinforced Concrete Slab and railing is 5mm.

Net final camber of beams is 22mm. This is 22mm in excess of the amount required to place the top of the beam parallel to profile grade. This excess amount shall be compensated for by thickening the Reinforced Concrete Slab from 155mm at center of span to 177mm at the ends.

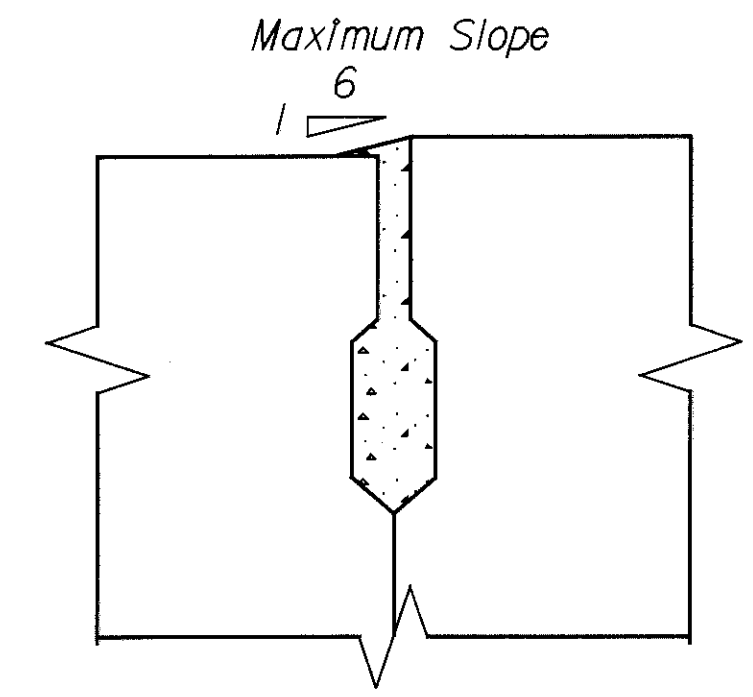
Elastomeric Bearings shall comply with Item 516 and Articles 18.2.5 through 18.2.8 of Section 18, Bearing Devices, Division II, Construction of the AASHTO Standard Specification for Highway Bridges. Bearings shall be Grade 3, 50 durometer elastomer, and shall be subjected to the load testing requirements corresponding to Design Method A. Testing shall be included in the unit price bid for bearings, each.



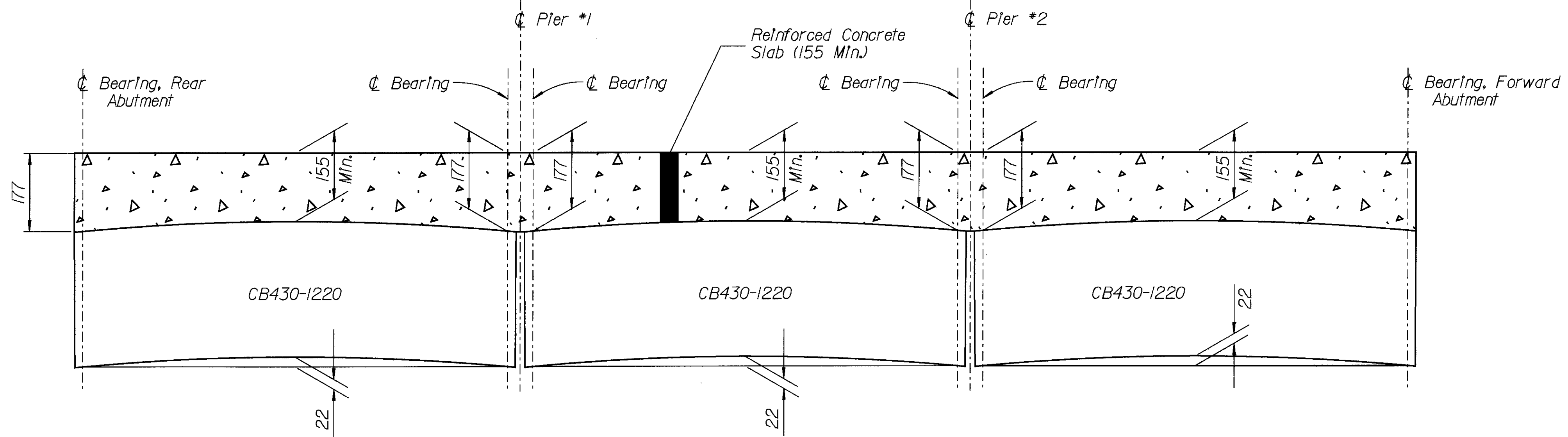
**CB430-1220, AS PER PLAN**

For Other Beam Detail Information See Std. Dwg. PSBD-I-93M

Note: All dimensions are in millimeters unless otherwise noted.



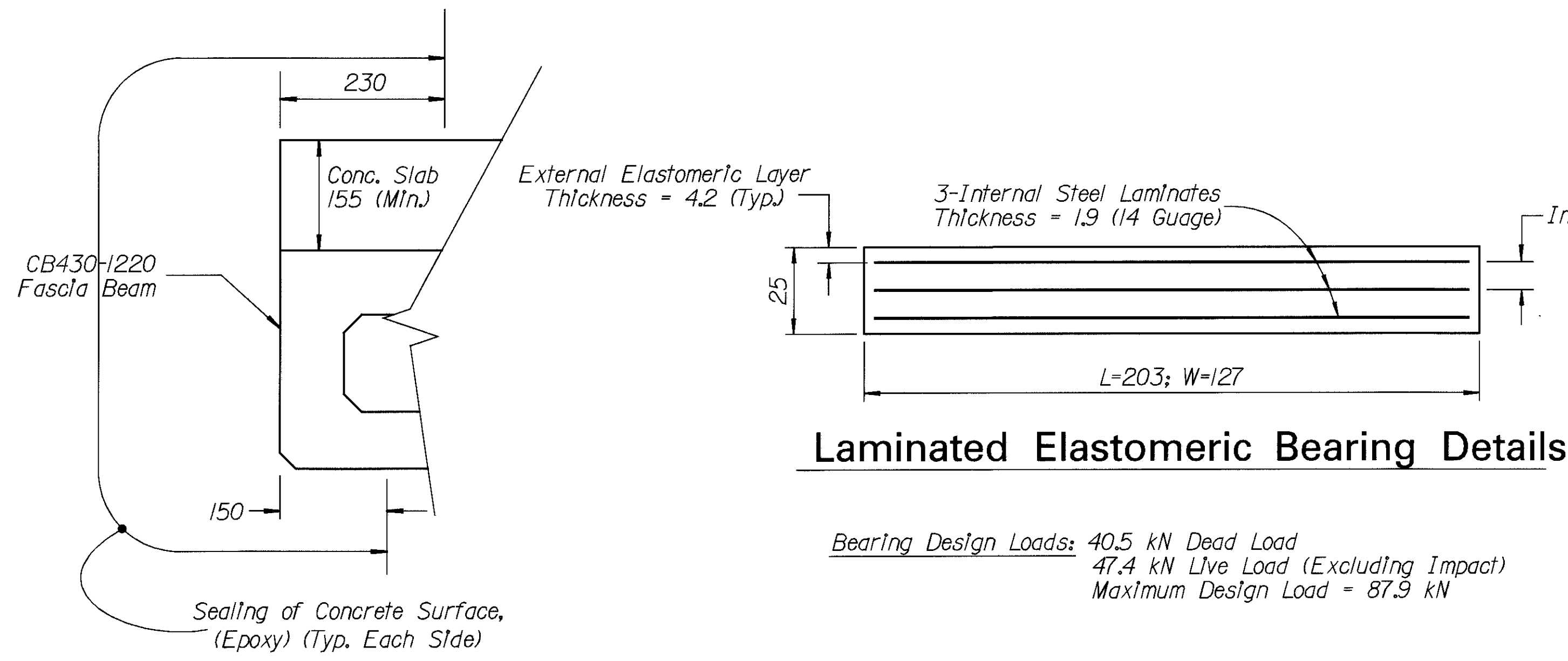
Detail of shear key mortar where adjacent beams have vertical offset due to different camber, skew effect.



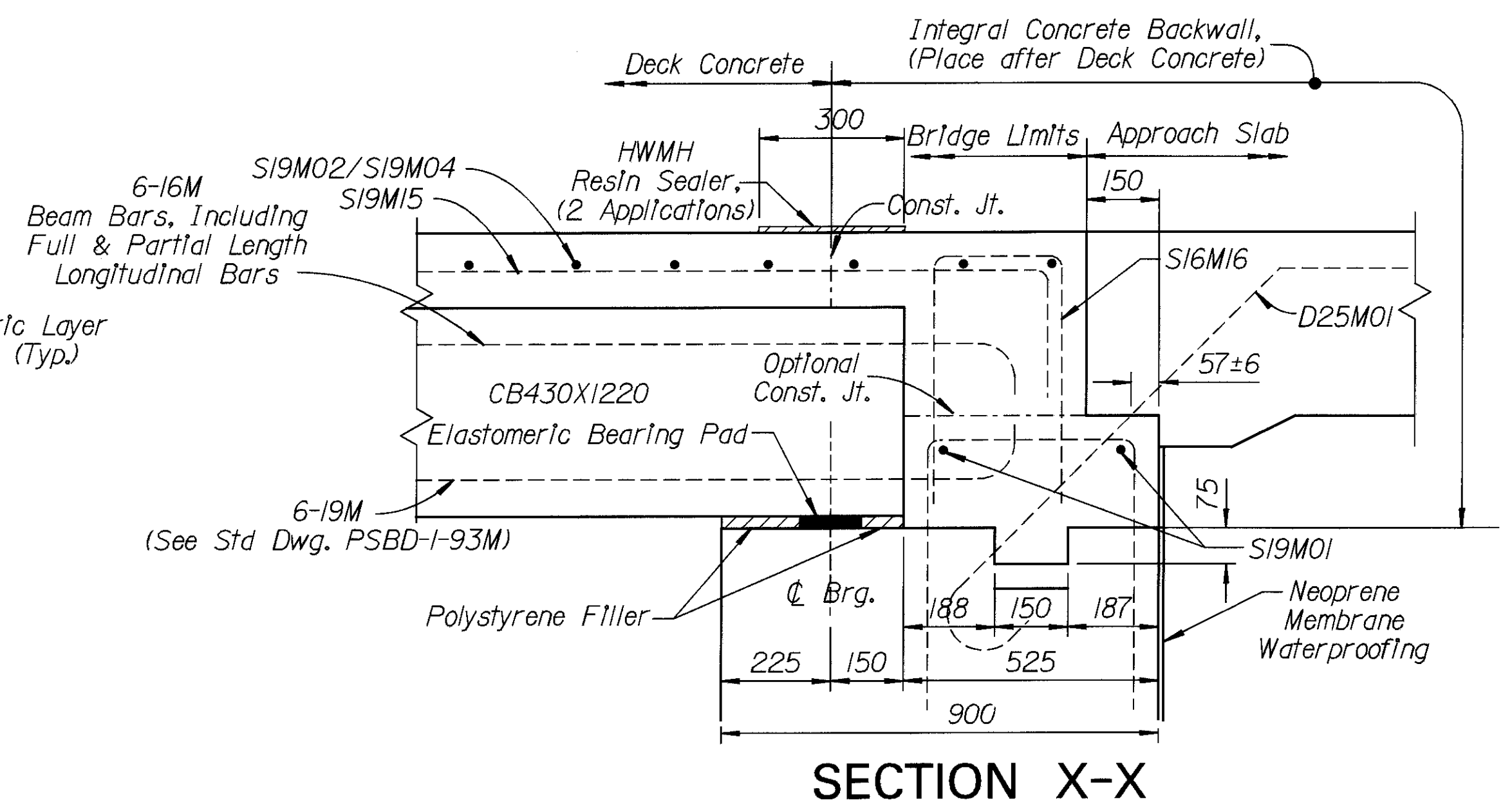
**Deck Thickness Diagram**

DECK SCREED ELEVATIONS(*)				
Location	☉ Brg. R.A.	1/2 Span thru 3	☉ Pier 1 & 2	☉ Brg. F.A.
Edge of bridge Deck El. "Tr & Tl"	176.398	176.403	176.398	176.398
Crown @ ☉ Construction El. "Tc"	176.516	176.521	176.516	176.516

(\*) Screed Elevations shown are for the deck surface prior to concrete placement. Allowance has been made for anticipated calculated dead load deflections.



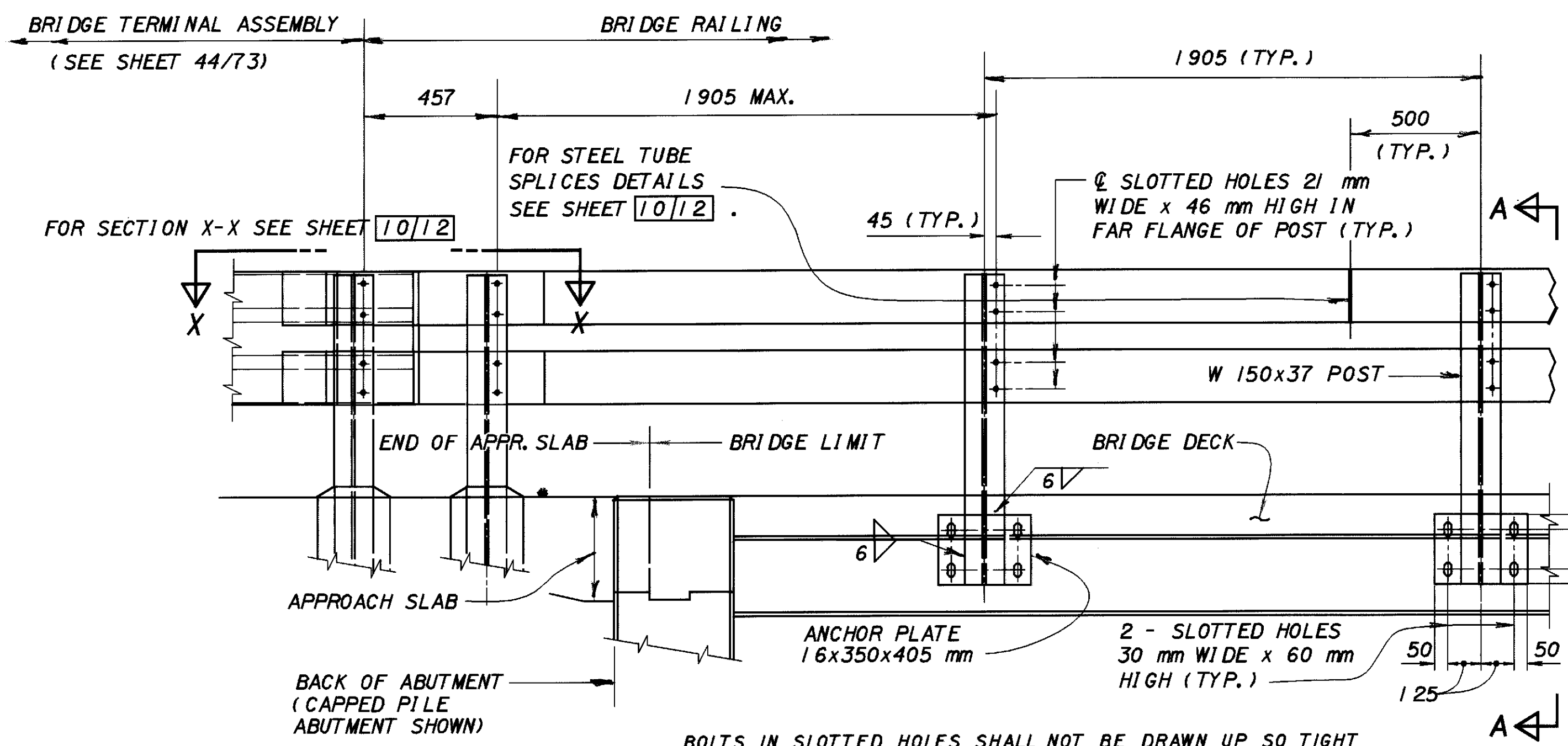
Bearing Design Loads: 40.5 kN Dead Load  
 47.4 kN Live Load (Excluding Impact)  
 Maximum Design Load = 87.9 kN



**SECTION X-X**  
**INTEGRAL BACKWALL DETAIL**

For Further Detail Information See Sheet 4/11.

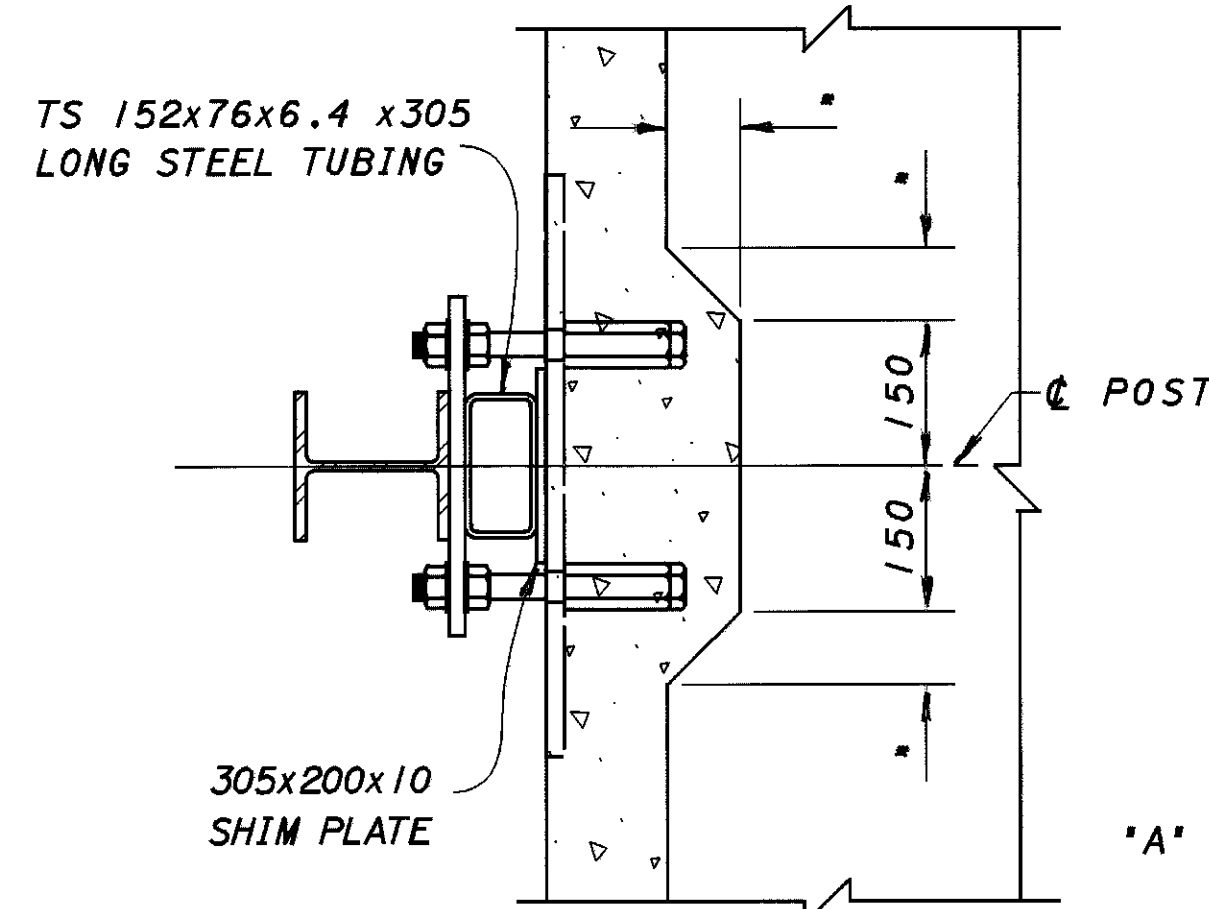




BOLTS IN SLOTTED HOLES SHALL NOT BE DRAWN UP SO TIGHT AS TO PREVENT SLIDING BETWEEN THE TUBE AND CHANNEL.

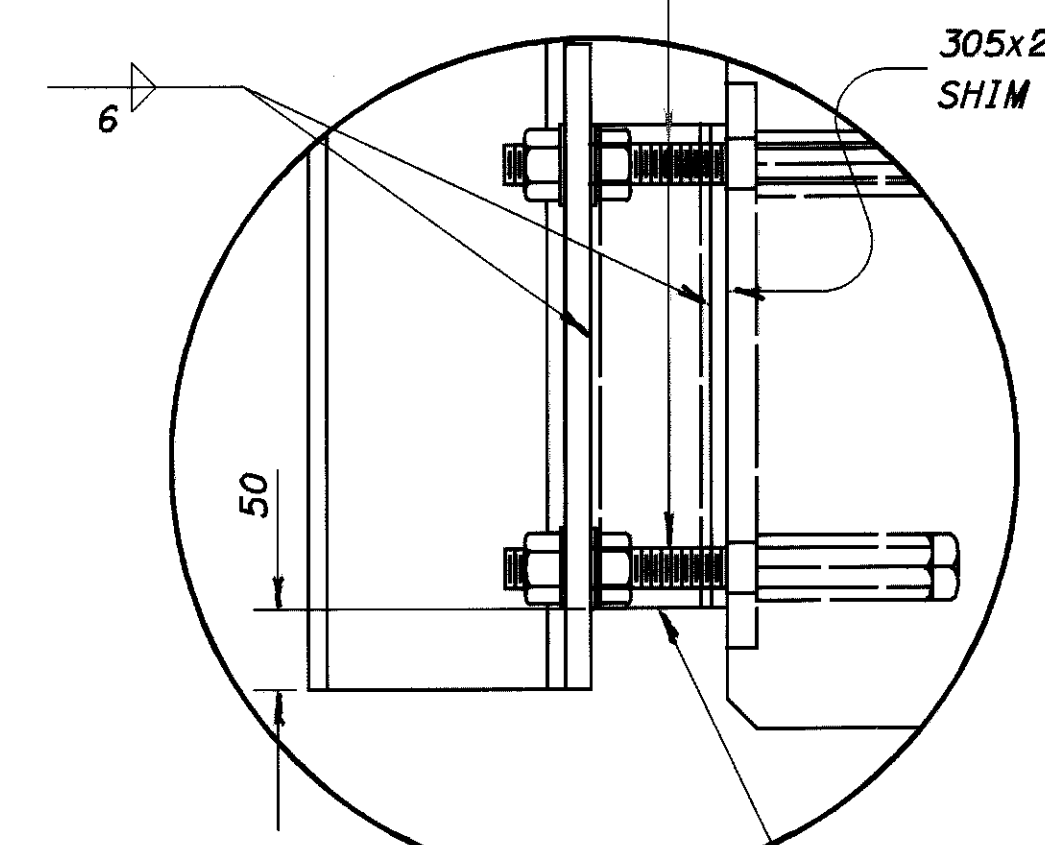
**RAILING ELEVATION**

TWIN TUBE RAILING WITH THRIE BEAM TERMINAL CONNECTOR AT THE FIRST POST OFF THE BRIDGE.



**SECTION J-J**

2 - 25 DIA. x 305 LONG ANCHOR BOLTS WITH MACHINE THREADS FULL LENGTH AND TWO HEX NUTS AND TWO WASHERS PER BOLT.



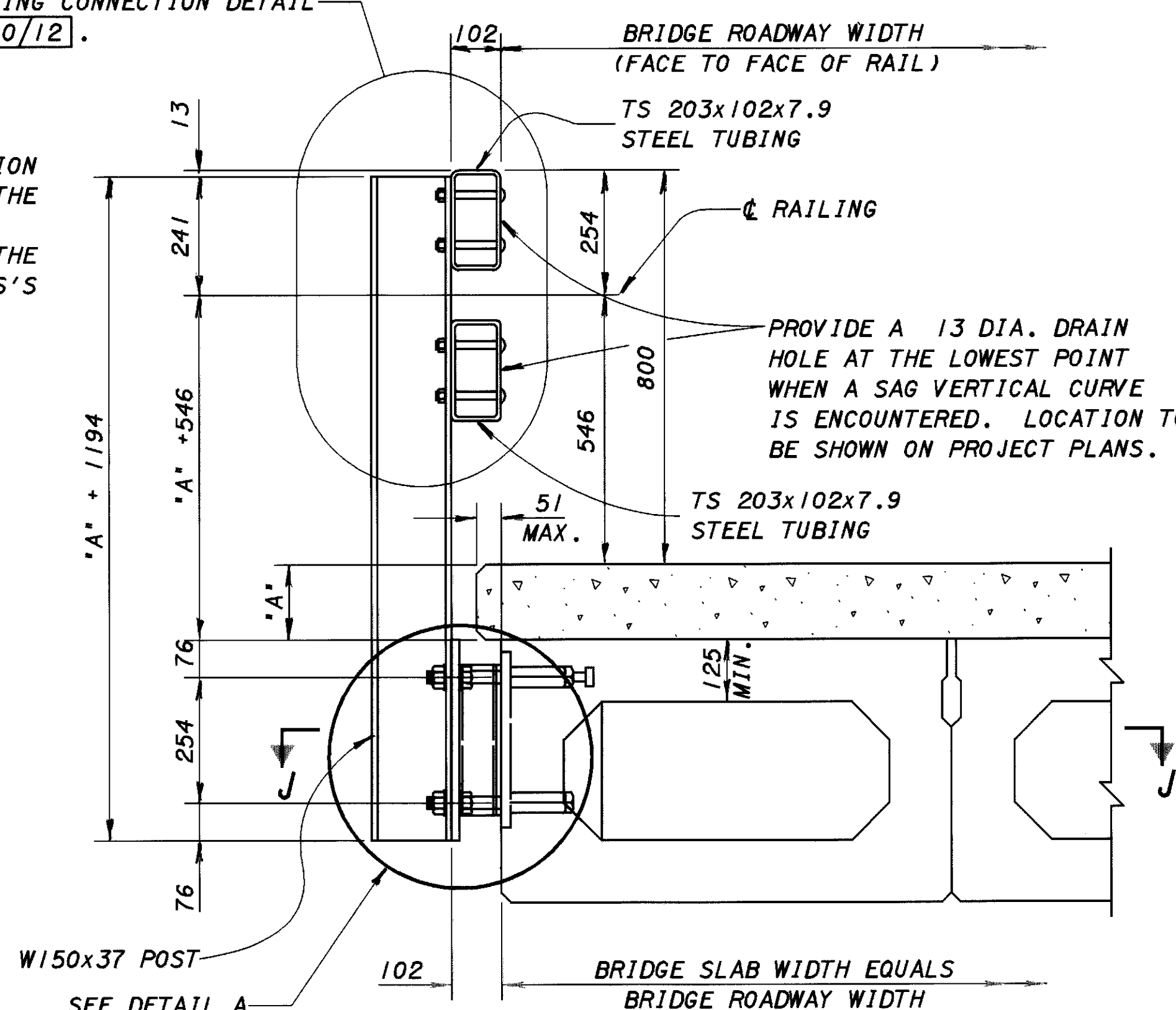
TS 152x76x6.4x305 LONG STEEL TUBING, WELD TO ANCHOR PLATE AND SHIM PLATE PRIOR TO GALVANIZING.

**DETAIL A**

SEE RAILING CONNECTION DETAIL SHEET 10/12.

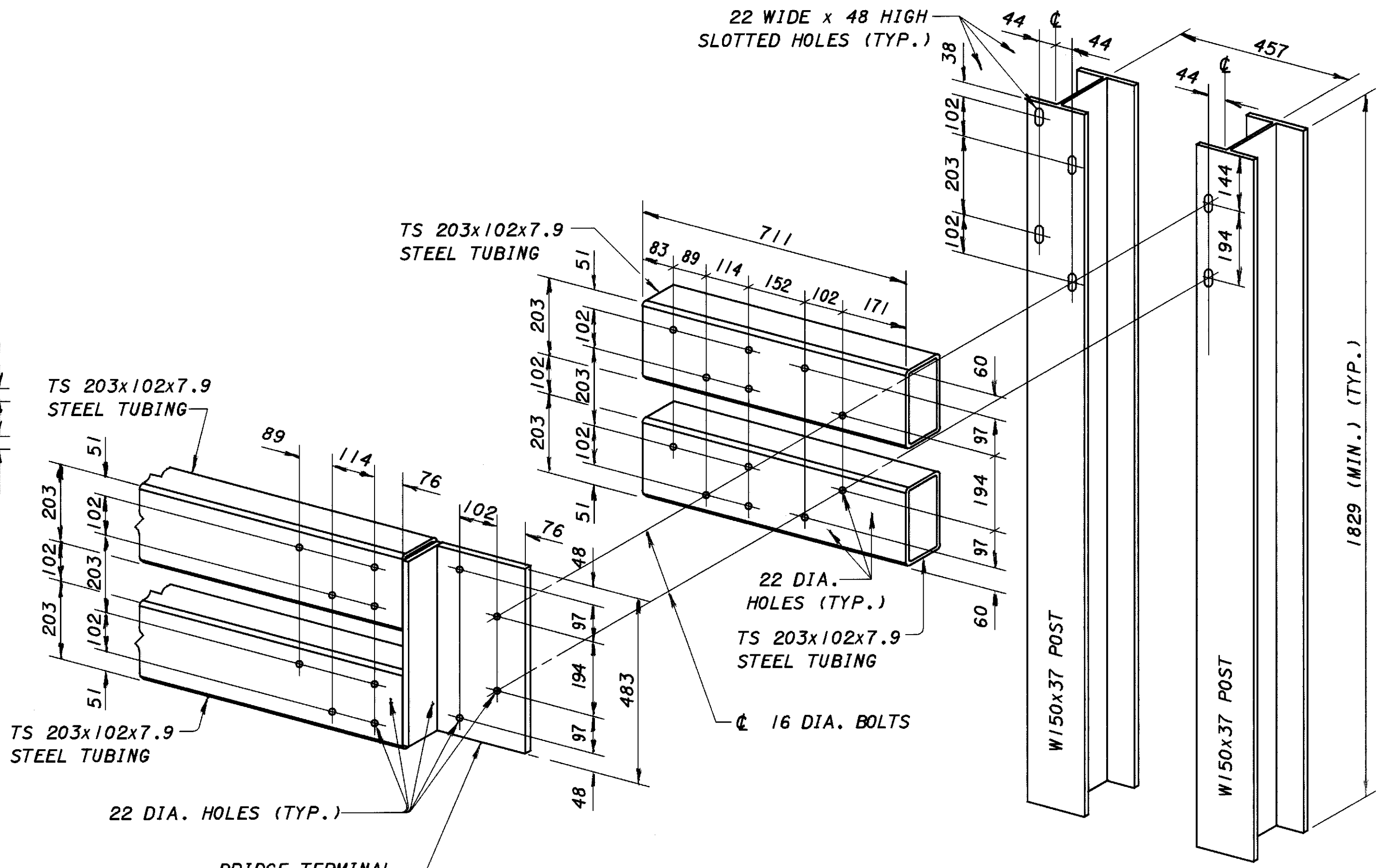
**LEGEND**

- \*A\* - OVERLAY THICKNESS, THIS DIMENSION VARIES ACROSS THE LENGTH OF THE BRIDGE.
- THIS DIMENSION IS THE SAME AS THE WIDTH OF FILLET IN THE BOX BEAMS'S VOID.



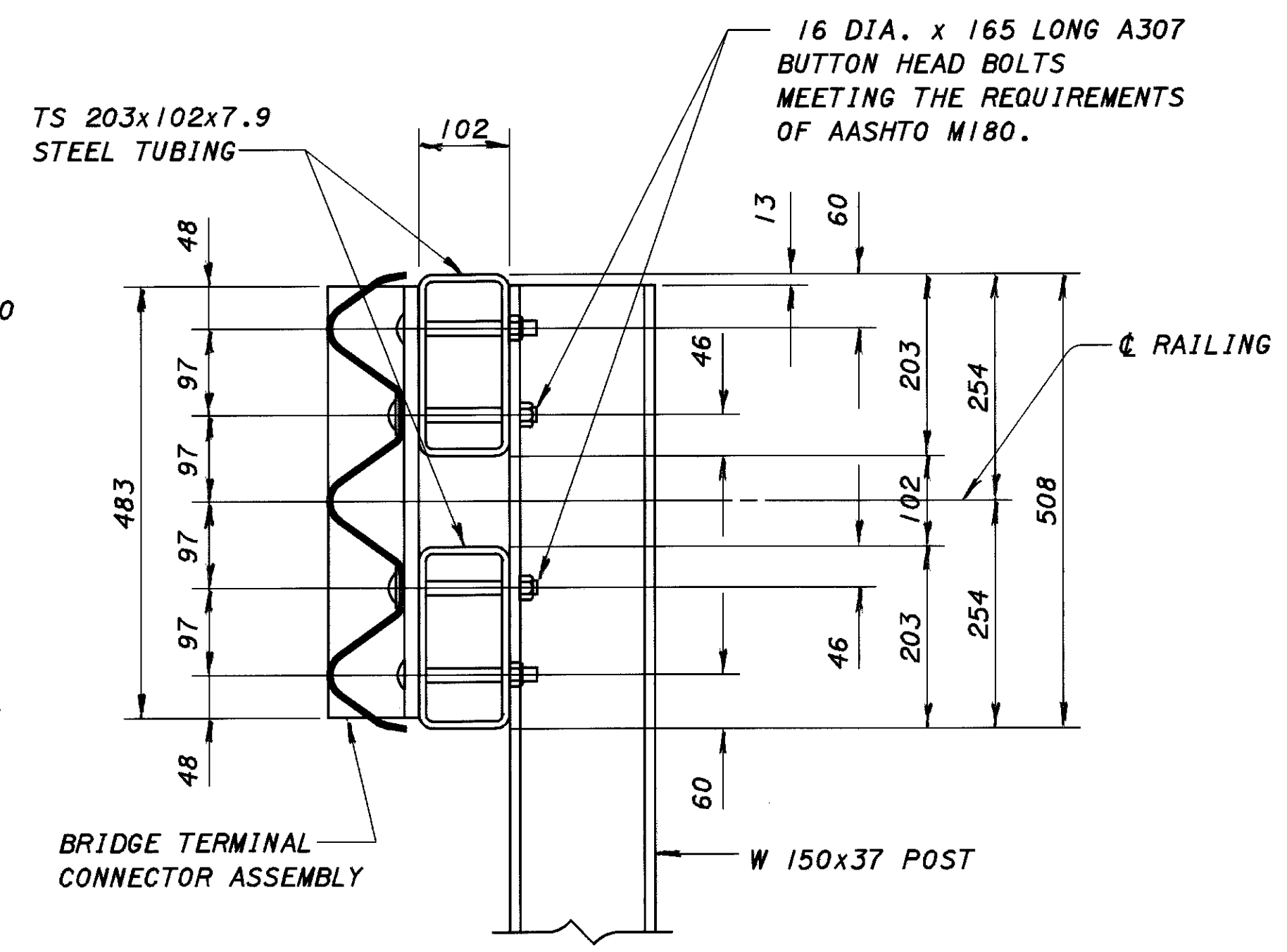
**SECTION A-A**

(FOR 430 AND DEEPER COMPOSITE PRESTRESSED BOX BEAM BRIDGES)



**VIEW C-C**

(NESTED THRIE BEAM RAILING NOT SHOWN)



**VIEW F-F**

SECTION THRU RAIL AT THRIE BEAM BRIDGE TERMINAL CONNECTION ASSEMBLY

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

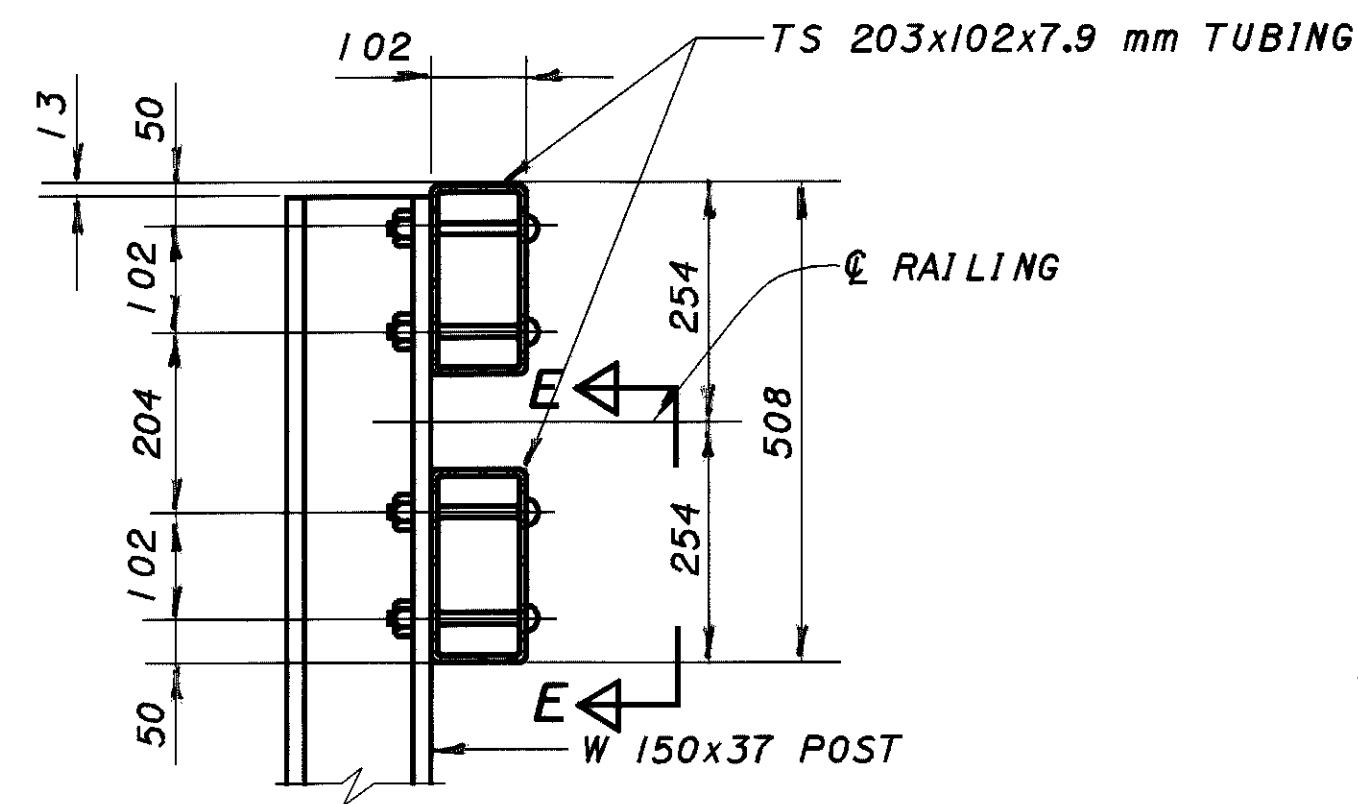
DESIGN AGENCY	DISTRICT ONE
PRODUCTION DEPARTMENT	620009
DATE	5-5-99
REVIEWED	JEC
STRUCTURE FILE NUMBER	
DRAWN	EJS
CHECKED	STB
DESIGNED	EJS

**RAILING DETAILS**  
BRIDGE No. OTT-2-10948  
over Turtle Creek

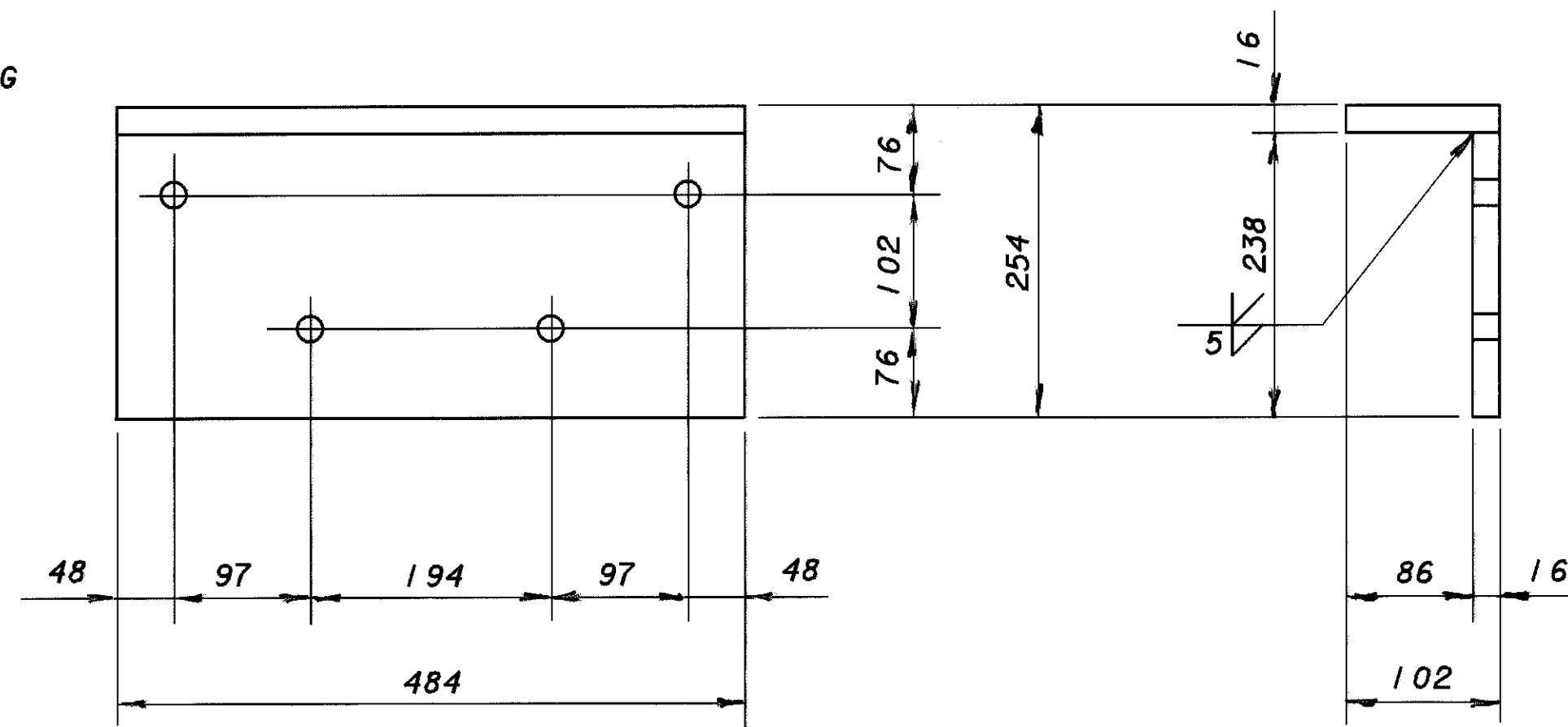
**OTT-2-10.735/17.135**

9/11

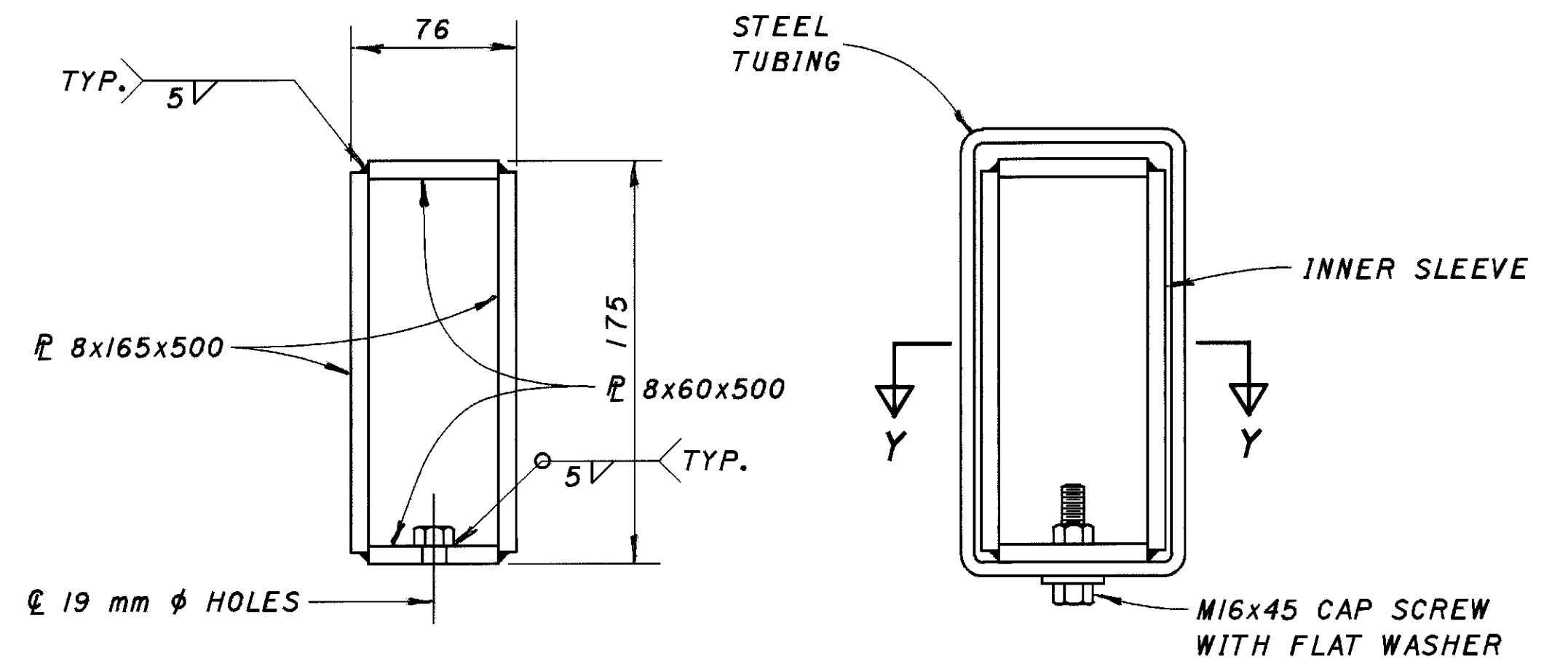
53  
73



**TYPICAL SECTION THRU RAIL USING THRIE BEAM TERMINAL CONNECTOR**



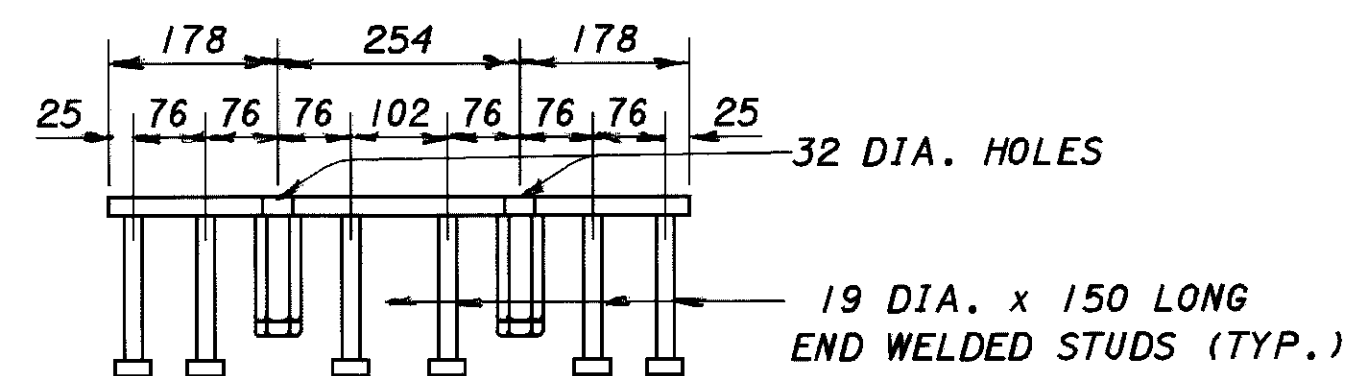
**BRIDGE TERMINAL CONNECTOR ASSEMBLY**



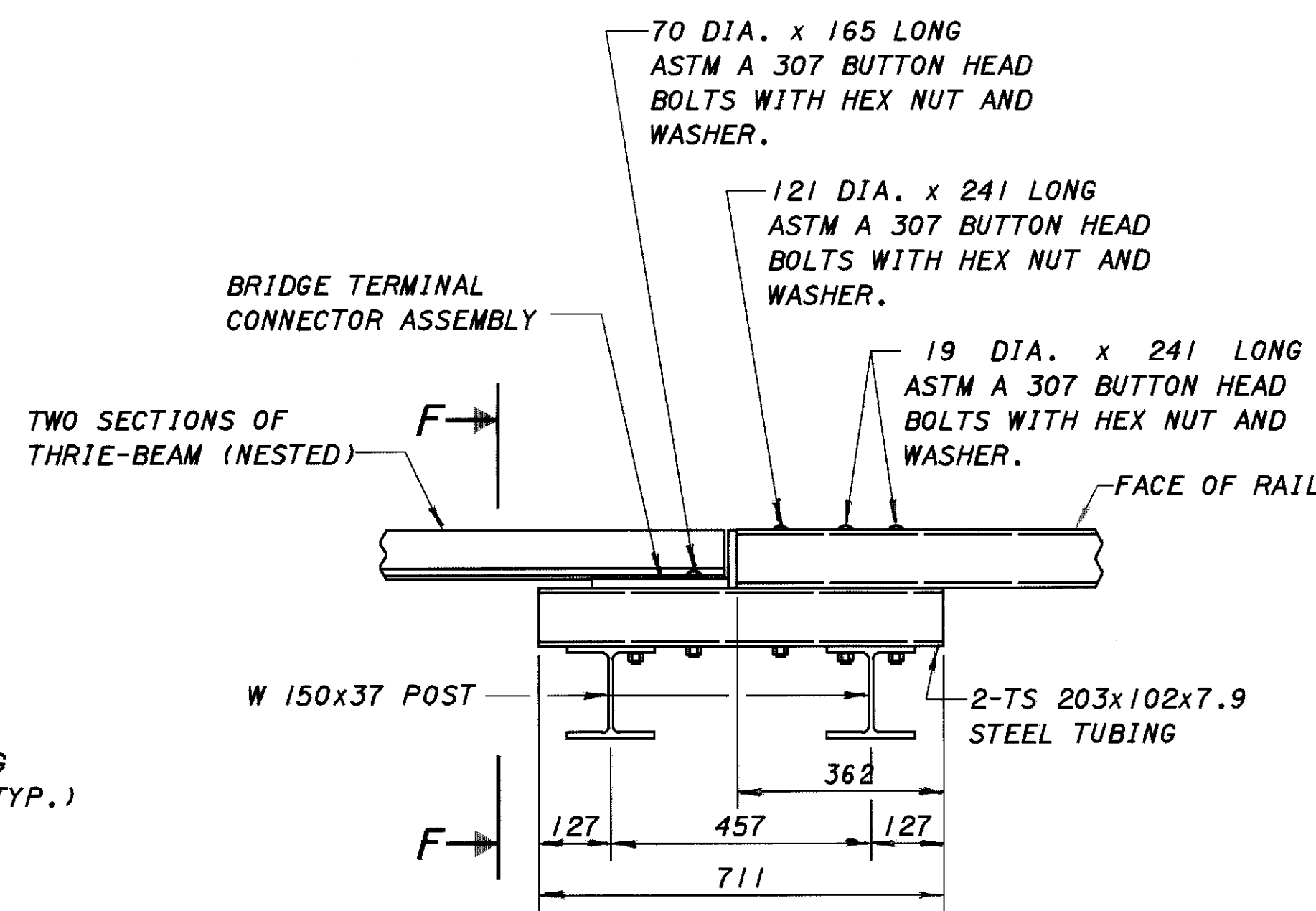
**FINISHED DIMENSIONS OF INNER SLEEVE**

**SECTION THRU SPLICE**

NOTE:  
ALL DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE NOTED.

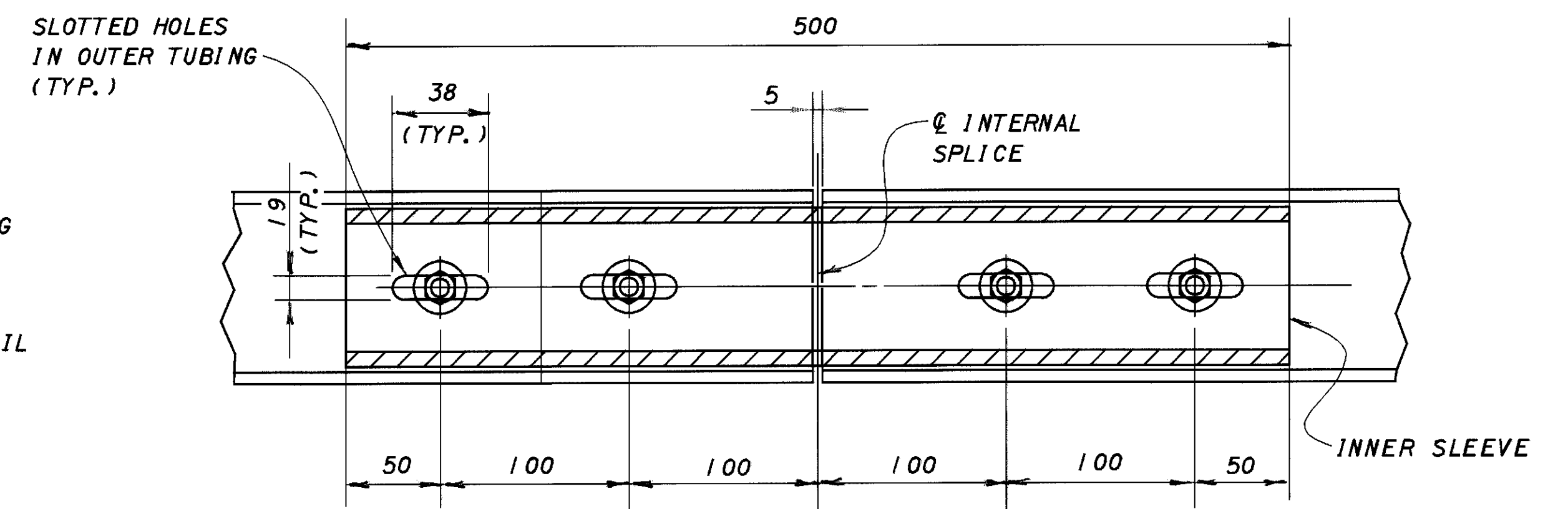


**VIEW D-D**

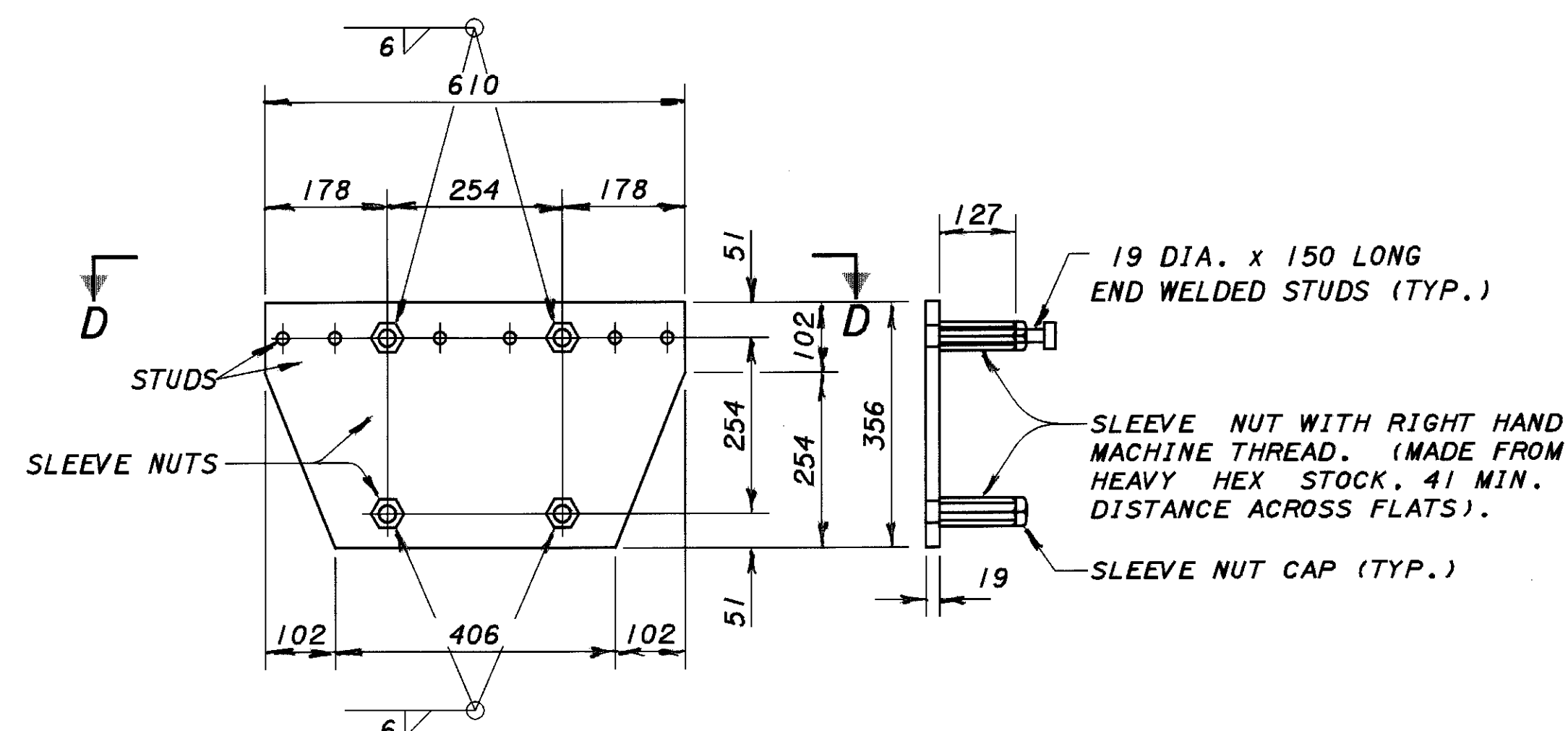


**SECTION X-X**

FOR VIEW F-F SEE SHEET 9/12



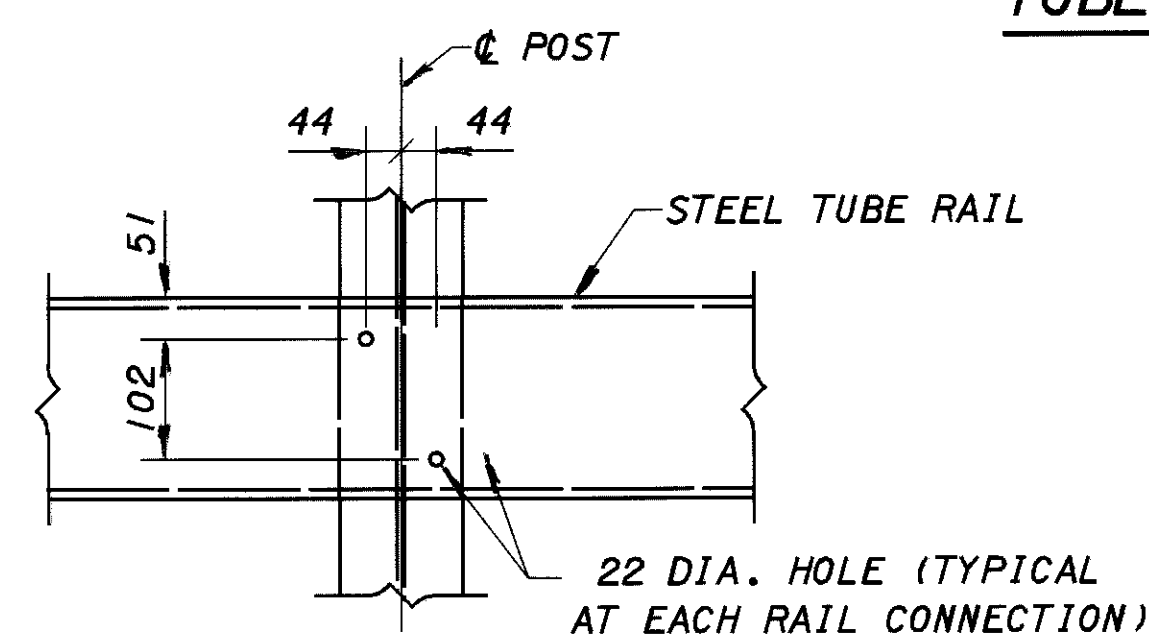
**SECTION Y-Y TUBE SPLICE DETAILS**



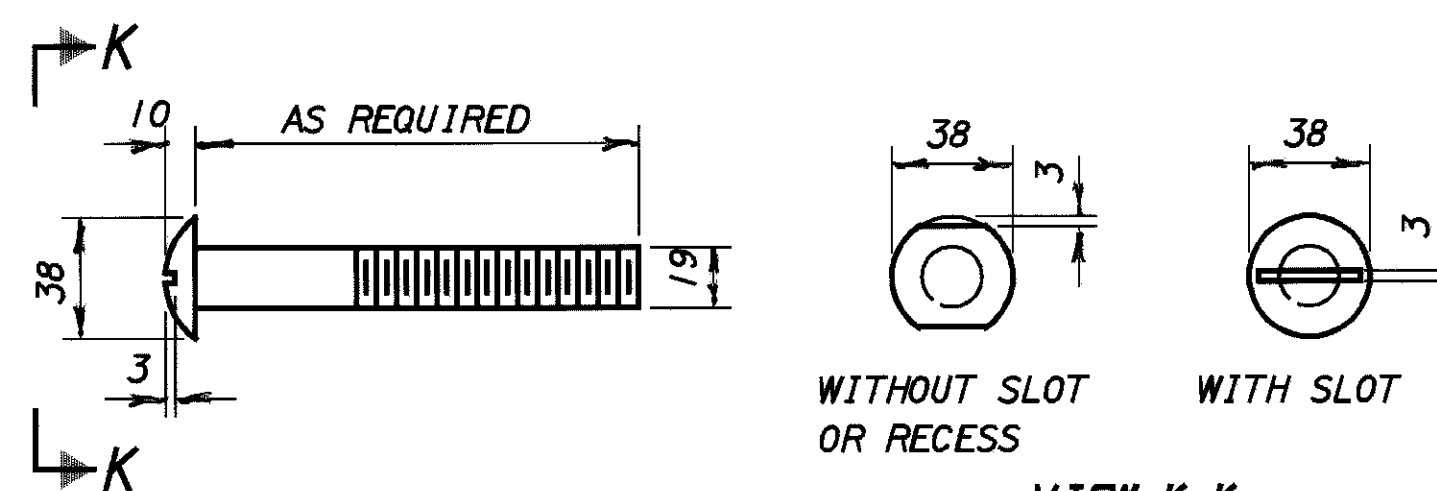
**ELEVATION**

**END VIEW**

**POST ANCHOR DEVICE**

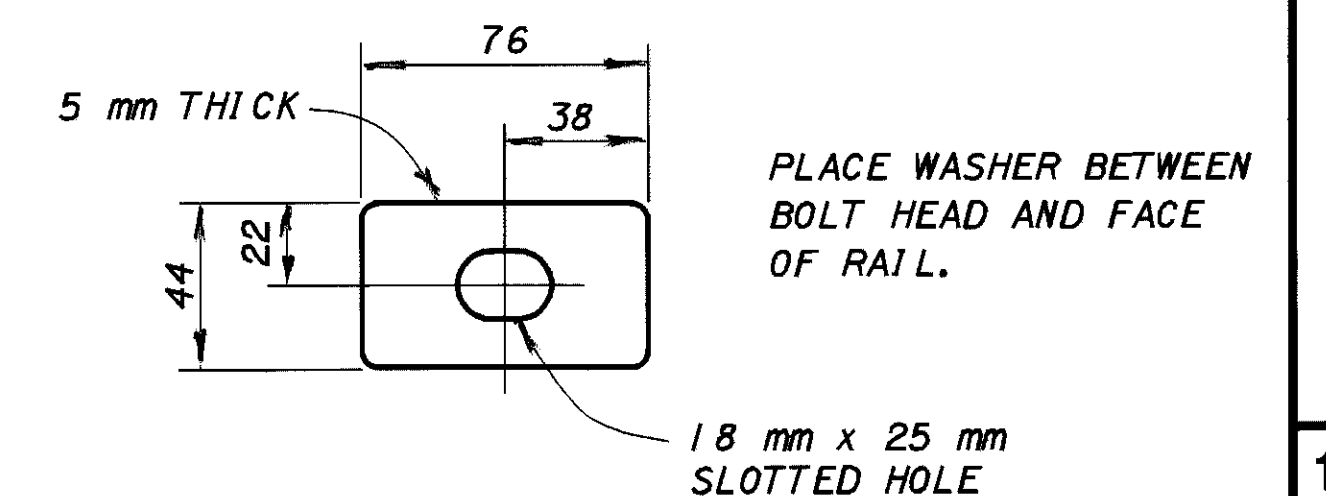


**VIEW E-E**



**VIEW K-K**

**DETAIL OF 19 DIA. ROUND HEAD BOLT**



**SPECIAL WASHER**