

*California Department of Transportation  
Division of Maintenance*

*Structure Maintenance and Investigations*

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**B**<sub>RIDGE</sub>

**I**<sub>NSPECTION</sub>

**R**<sub>ECORDS</sub>

**I**<sub>NFORMATION</sub>

**S**<sub>YSTEM</sub>

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Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

Dolores Valls, Deputy Division Chief  
Offices of Structure Construction  
1801 30<sup>th</sup> Street MS #9-2/11H  
Sacramento, CA 95816

07-4K3804  
07-LA-101.54.2

Job Stamp

Submitted herewith is the Report of Completion for

Palo Comado Canyon Road Overcrossing

53-1678

**Bridge Name:**

**Bridge No.**

Bridge-Replace I Girder

**Structure Type** (e.g. Bridge, MSE wall, retaining wall, etc.)

Girder Replacement

**Type of Work** (e.g. retrofit, new construction, widening, deck replacement, joint seal, etc)

Highland Construction, Inc.

**Structure Contractor**

Addis M. Ambaye

**Structure Representative**

**Assistants to Structure Representative working on the structure:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Date work started on this structure**

October 05,2006

**Date structure work completed**

November 08,2006

\$284,044.45

**Bid Price (Str.)**

\$0.00

**Str. CCO Cost**

\$284,044.45

**Total Structure Cost**

Bridge Name Palo Comado Canyon Road  
Overcrossing

Br. No. 53-1678

**Material Incorporated In Structure:**

		Source or Pit	Supplier/Sub
Coarse Aggregate	( 1"	Grims Cyn, Fillmore	National Ready Mix
Coarse Aggregate	( 3/4"	Grims Cyn, Fillmore	National Ready Mix
Fine Aggregate		Grims Cyn, Fillmore	National Ready Mix
Fine Aggregate			
Admixture, Type	( - )		
Admixture, Type	( )		
Cement			
Cement			
Reinf. Steel, Grade	( A706 )	NUCOR	R+D Steel Mc
Reinf. Steel, Grade	( )		
Structural Steel			
Structural Steel			
Precast	( 1372 mm I Girder )	Pomeroy	Pomeroy
Precast	( )		
Piling, Class	( ) Alternate ( )		
Piling, Class	( ) Alternate ( )		
Piling, Class	( ) Alternate ( )		
Railing, Type	( Metal Tubes )	High Land Const	High Land Const
Railing, Type	( )		
Prestressing System			
Prestressing System			
Joint Seal, Type	( A )		
Joint Seal, Type	( )		
Joint Seal, Type	( )		
Joint Seal Assembly, Model #			
Joint Seal Assembly, Model #			
Deck Seal, Type	( )		
Deck Seal, Type	( )		
Paint			
Paint			
( other )			
( other )			

**Problems With Materials:**

Due to time constraint Pomeroy requested the use of different size of bearing pad which was available  
Upon designer approval the 25 mm X 203 mm X 460 mm was replaced by 25 mm X 254 mm X 380

Bridge Name Palo Comado Canyon Road Br. No. 53-1678  
Overcrossing

**Utilities on or in Structure**

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**Construction Details:**

1. Significant Changes: \_\_\_\_\_

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2. Unusual Conditions: \_\_\_\_\_

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3. New Methods or Equipment: \_\_\_\_\_

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4. Construction Techniques of Special Interest: \_\_\_\_\_

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5. Problems that Occurred During Construction: \_\_\_\_\_

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**Attachments:**

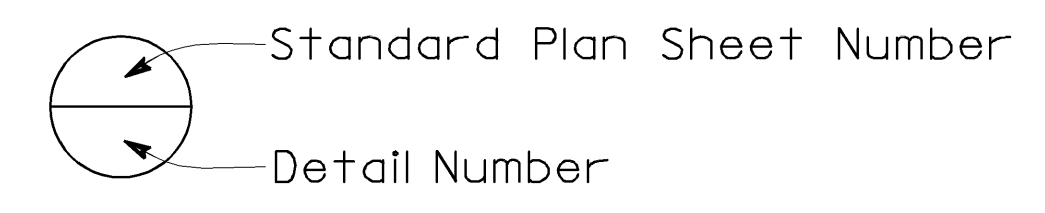
- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

Attach additional sheets if necessary

CONTRACT NO: 07-4K3804  
 TRANSFER DATE: 07-12-2007  
 FIELD CORRECTION DATE: 11-15-2006  
 CORRECTIONS TRANSFERRED BY: BEM  
 FIELD CORRECTIONS BY: A. Amboye  
**NO AS BUILT CORRECTIONS**

**STANDARD PLANS DATED JULY 2004**

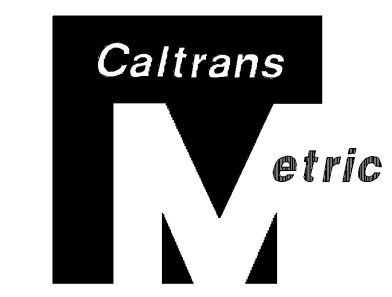
SHEET NO.	TITLE
A10A	ABBREVIATIONS (A-L)
A10B	ABBREVIATIONS (M-Z)
B0-5	BRIDGE DETAILS
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 MM)



- NOTES:**
- Remove existing Precast P/S Concrete I Girder and install new Precast I/P/S Girder.
  - Remove and install overhead sign and vertical clearance sign.
  - Temporary Railing (Type K), see "ROAD PLANS".
  - Existing Pipe Railing.
  - Existing Barrier Railing Type I.

**INDEX TO PLANS**

SHEET NO.	TITLE
1	GENERAL PLAN
2	DETAILS NO. 1
3	DETAILS NO. 2
4	DETAILS NO. 3
5	PRESTRESSED "I" GIRDER DETAILS
6	BARRIER RAILING TYPE 1 DETAILS
7	SIGN DETAIL



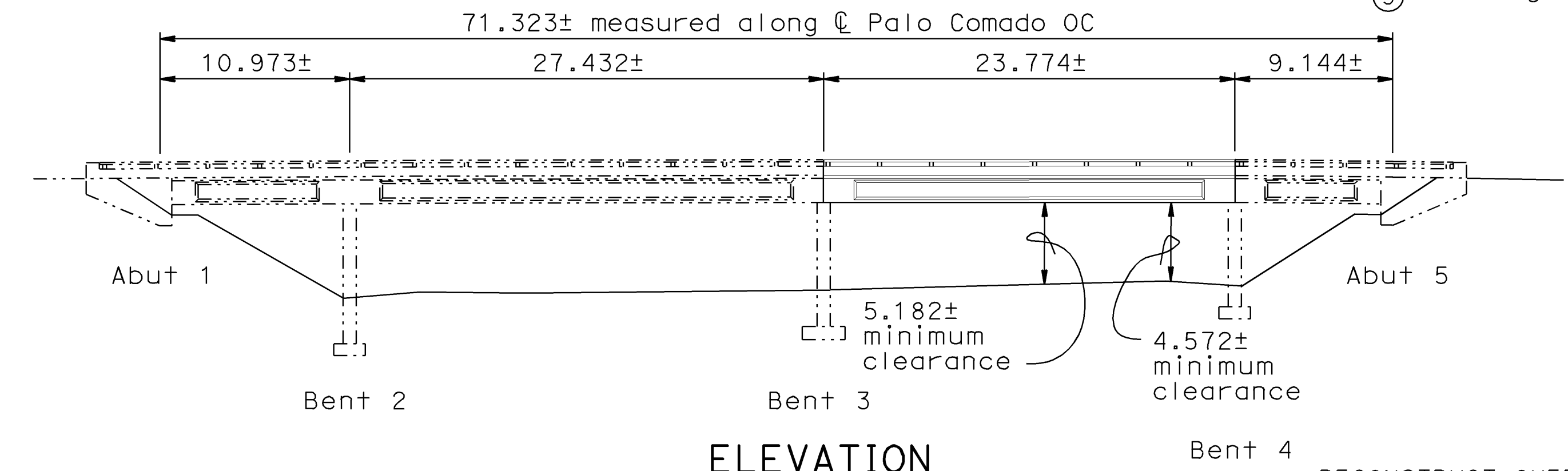
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101	54.2	13	19

**Michael J. Lee**  
 REGISTERED CIVIL ENGINEER  
 No. C 42447  
 Exp. 3-31-08  
 CIVIL  
 STATE OF CALIFORNIA

3-20-06  
 PLANS APPROVAL DATE

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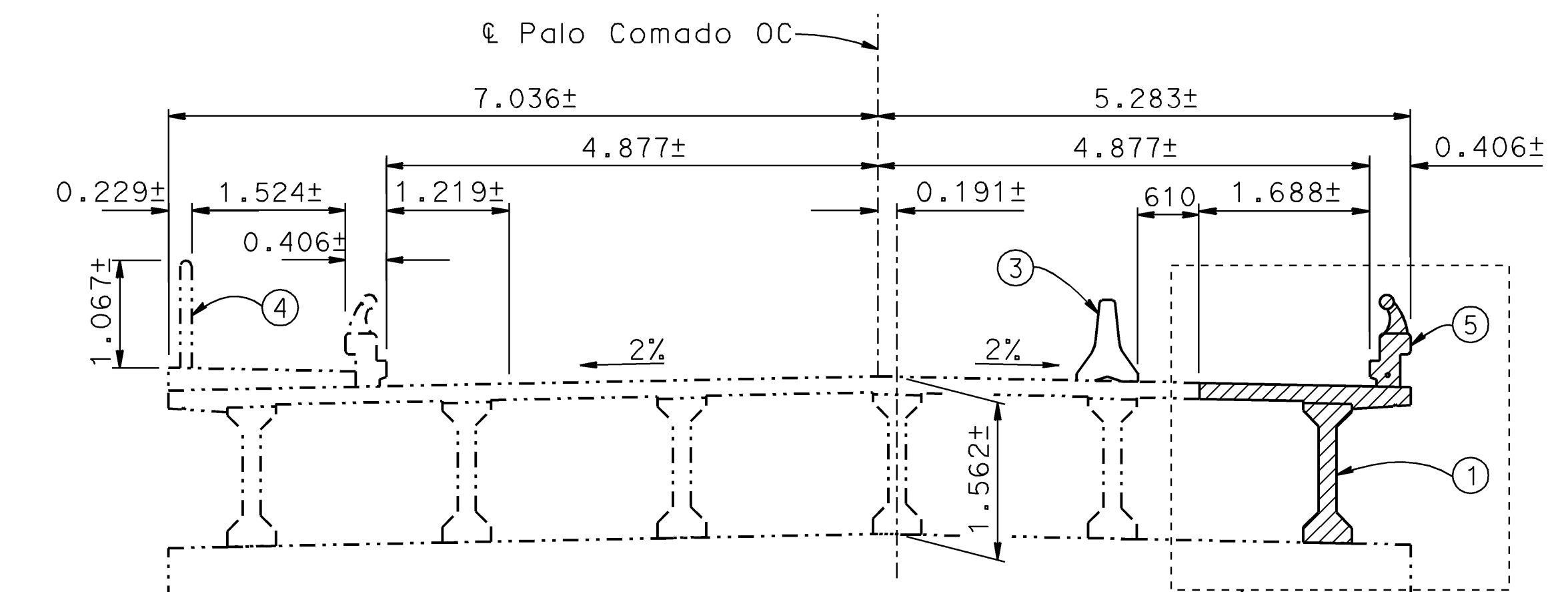
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**ELEVATION**  
1:250

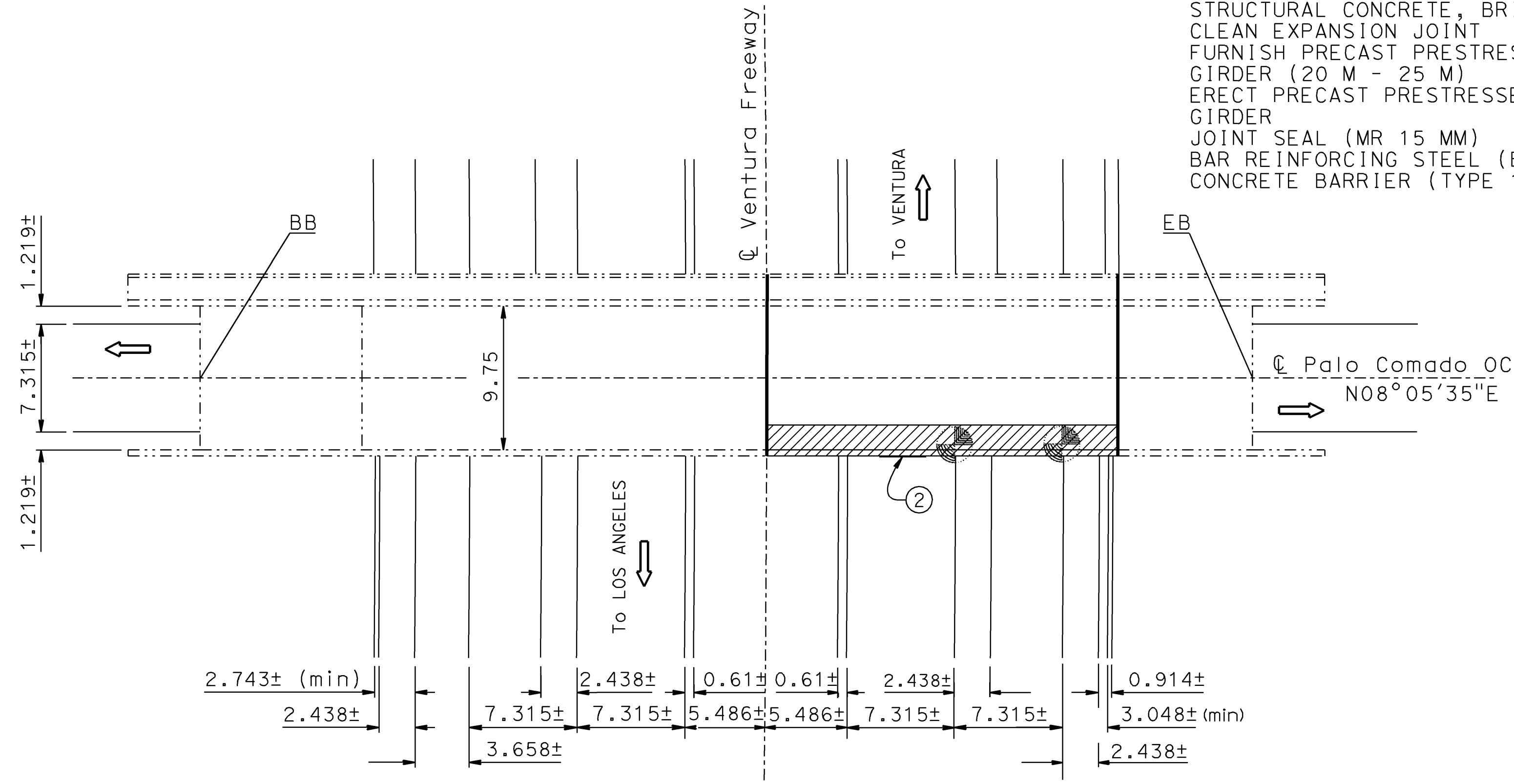
**QUANTITIES**

RECONSTRUCT OVERHEAD SIGN STRUCTURE (BRIDGE MOUNTED)	
BRIDGE REMOVAL (PORTION)	
RECONSTRUCT METAL RAILING (BRIDGE)	
STRUCTURAL CONCRETE, BRIDGE	
CLEAN EXPANSION JOINT	
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (20 M - 25 M)	
ERECT PRECAST PRESTRESSED CONCRETE GIRDER	1 EA
JOINT SEAL (MR 15 MM)	24 m
BAR REINFORCING STEEL (BRIDGE)	1 420 kg
CONCRETE BARRIER (TYPE 1)	24 m



**TYPICAL SECTION**  
1:50

Similar to detail on "DETAILS NO. 1" sheet



**PLAN**  
1:250

**LEGEND:**

- Indicates limits of existing concrete deck, barrier railing and metal tube railing removal and placement of new concrete barrier railing and reinstall existing metal tube railing.
- Indicates existing structure.
- Indicates removal of existing joint seal, clean expansion joint (depth 150± mm) and place new joint seal. There is a waterstop. For details not shown, see RSP B6-21
- Indicates point of Minimum Vertical Clearance.

**GENERAL NOTES**  
**LOAD FACTOR DESIGN**

- DESIGN:** CALTRANS BRIDGE DESIGN SPECIFICATIONS LFD Version April 2000 (1996 AASHTO with Interims and Revision by Caltrans)
- SEISMIC DESIGN:** CALTRANS SEISMIC DESIGN CRITERIA (SDC) Version 1.3, February 2004
- DEAD LOAD:** Includes 1675 Pa for future wearing surface. The deck dead load between the girders has been increased by a factor of 10 percent to allow for the use of steel deck forms.
- LIVE LOAD:** HS20-44 and Alternative and Permit Design Load
- REINFORCED CONCRETE:**  $f_y = 420$  MPa  
 $f'_c = 25$  MPa  
 $n = 8$
- Transverse Deck Slabs (Working Stress):  
 $f_s = 137.9$  MPa  
 $f_c = 8.3$  MPa  
 $n = 10$
- PRESTRESSED CONCRETE:** See "PRESTRESSED "I" GIRDER DETAILS" sheet.

**NOTE:**  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

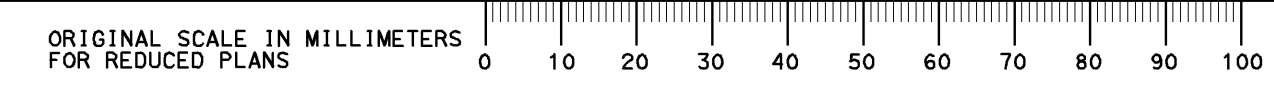
 DESIGN ENGINEER 3-20-06	DESIGN	BY Rangina Amir	CHECKED Arlene Frank	LAYOUT	BY Roelina Martinez	CHECKED Arlene Frank
	DETAILS	BY Roelina Martinez	CHECKED Arlene Frank	SPECIFICATIONS	BY Lien Vu	PLANS AND SPECS COMPARED Lien Vu
	QUANTITIES	BY Rangina Amir	CHECKED Arlene Frank			

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.  
 53-1678  
 KILOMETER POST  
 54.2

**PALO COMADO OC**  
**GENERAL PLAN**



CU 07  
 EA 4K3801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
7-25-05 10-02-05 10-05-05	1	7

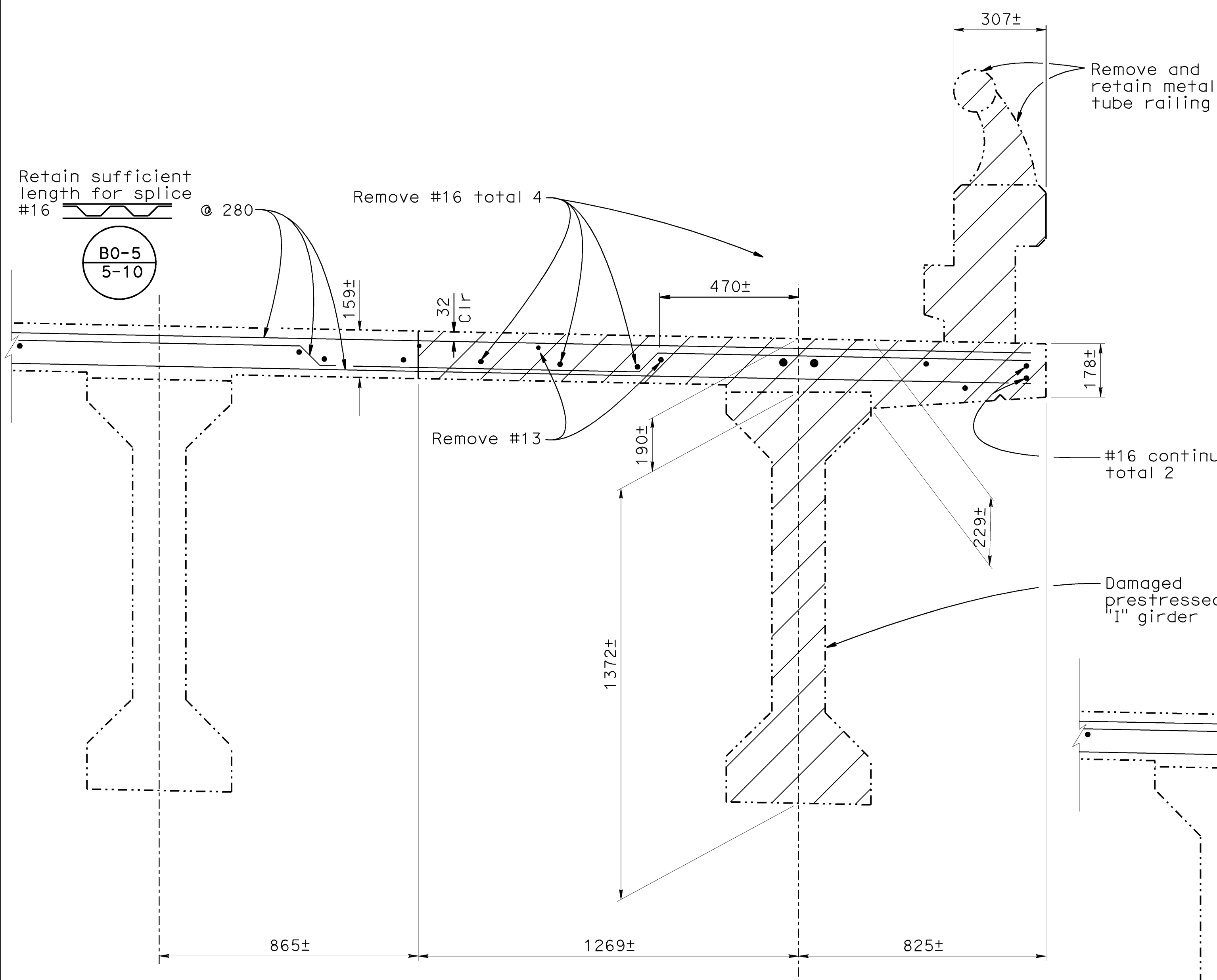
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 CORRECTIONS TRANSFERRED BY: BEM A. Amboye  
 FIELD CORRECTIONS BY:  
 TRANSFER DATE: 07-12-2007  
 FIELD CORRECTION DATE: 11-15-2006  
 CONTRACT NO: 07-4K3804



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101	54.2	14	19

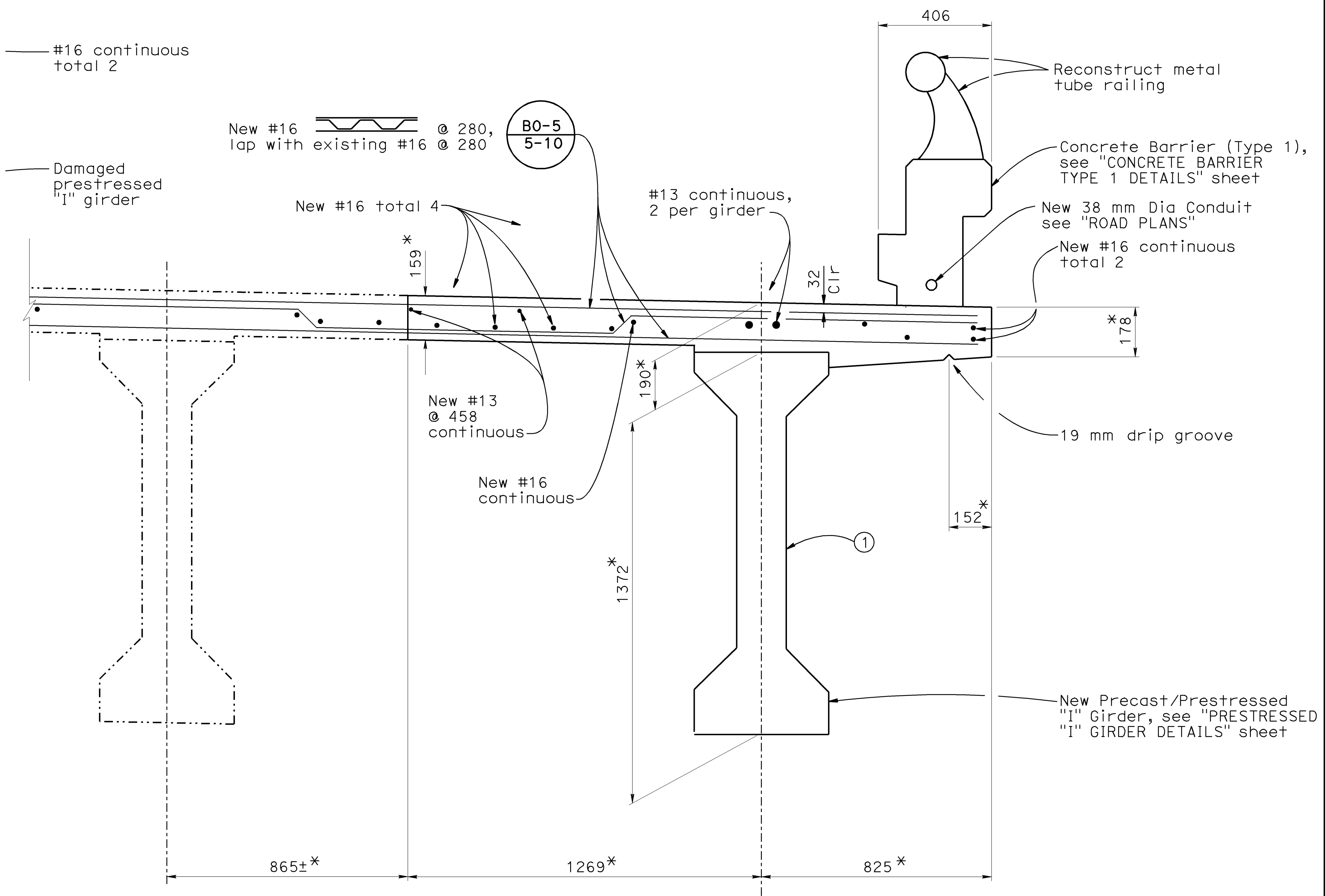
REGISTERED CIVIL ENGINEER  
 Michael J. Lee  
 No. C 42447  
 Exp. 3-31-08  
 CIVIL  
 STATE OF CALIFORNIA  
 3-20-06  
 PLANS APPROVAL DATE  
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**EXISTING - PARTIAL TYPICAL SECTION**  
1:10

**NOTE:**  
 ① For I Girder reinforcement, see "PRESTRESSED I GIRDER DETAIL" sheet.

**LEGEND:**  
 - - - - - Indicates existing.  
 ———— Indicates new construction.  
 [Hatched Area] Indicates limits of removal of existing concrete and barrier railing.  
 \* Indicates match existing dimensions.



**RECONSTRUCTION - PARTIAL TYPICAL SECTION**  
1:10

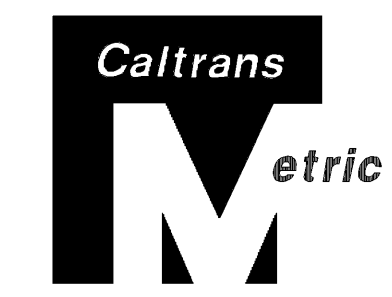
**NOTE:**  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN BY Rangina Amir	CHECKED Arlene Frank	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	BRIDGE NO. 53-1678	<b>PALO COMADO OC</b> <b>DETAILS NO.1</b>
DETAILS BY Roelina Martinez	CHECKED Arlene Frank		KILOMETER POST 54.2	
QUANTITIES BY Rangina Amir	CHECKED Arlene Frank		54.2	
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100			CU 07 EA 4K3801	DISREGARD PRINTS BEARING EARLIER REVISION DATES 8-1-05 8-23-05 10-03-05
				SHEET 2 OF 7

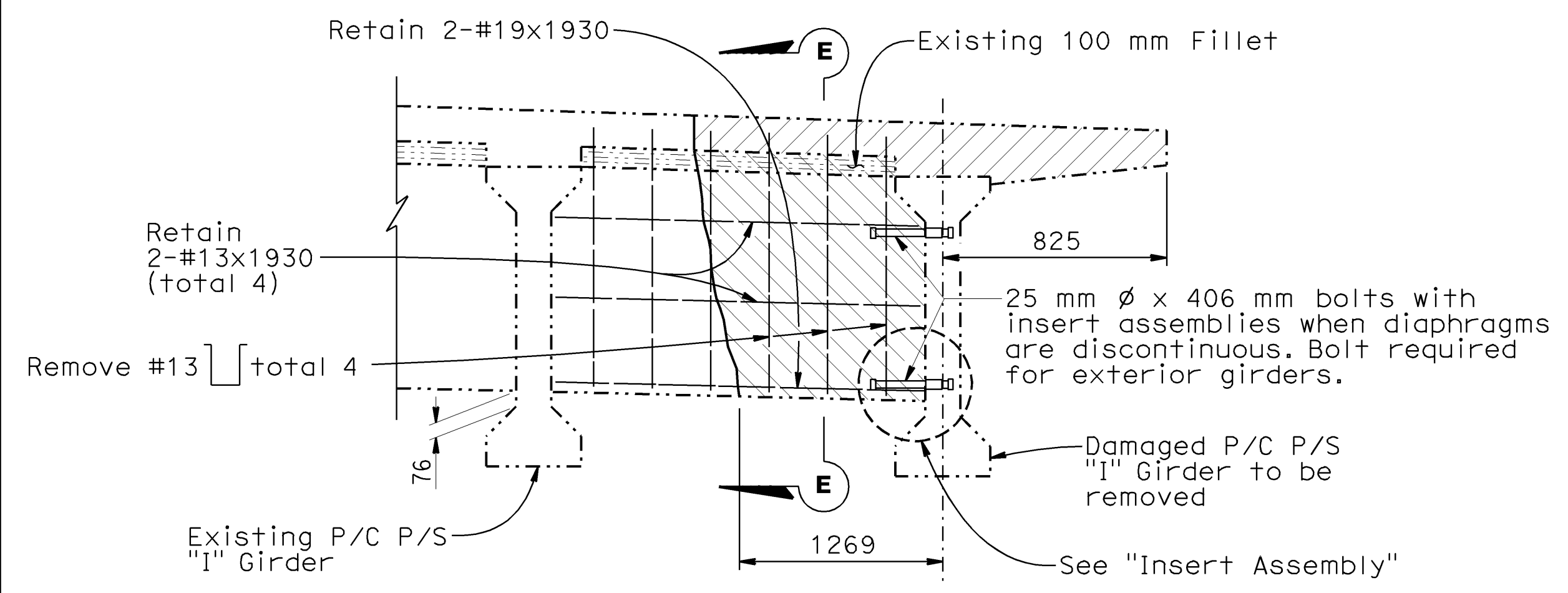
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CONTRACT NO: 07-4K3804  
 TRANSFER DATE: 07-12-2007  
 FIELD CORRECTION DATE: 11-15-2006  
 CORRECTIONS TRANSFERRED BY: BEM  
 FIELD CORRECTIONS BY: A. Amoye  
**NO AS BUILT CORRECTIONS**

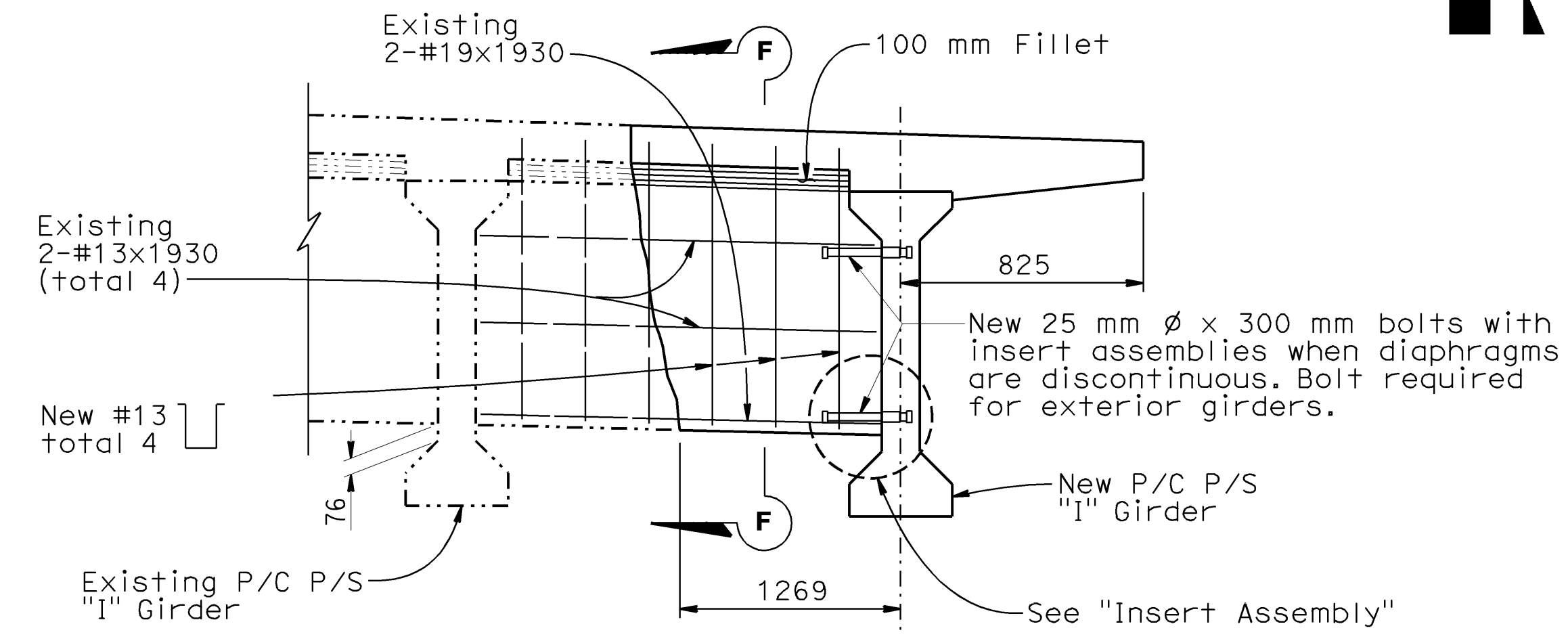


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101	54.2	15	19

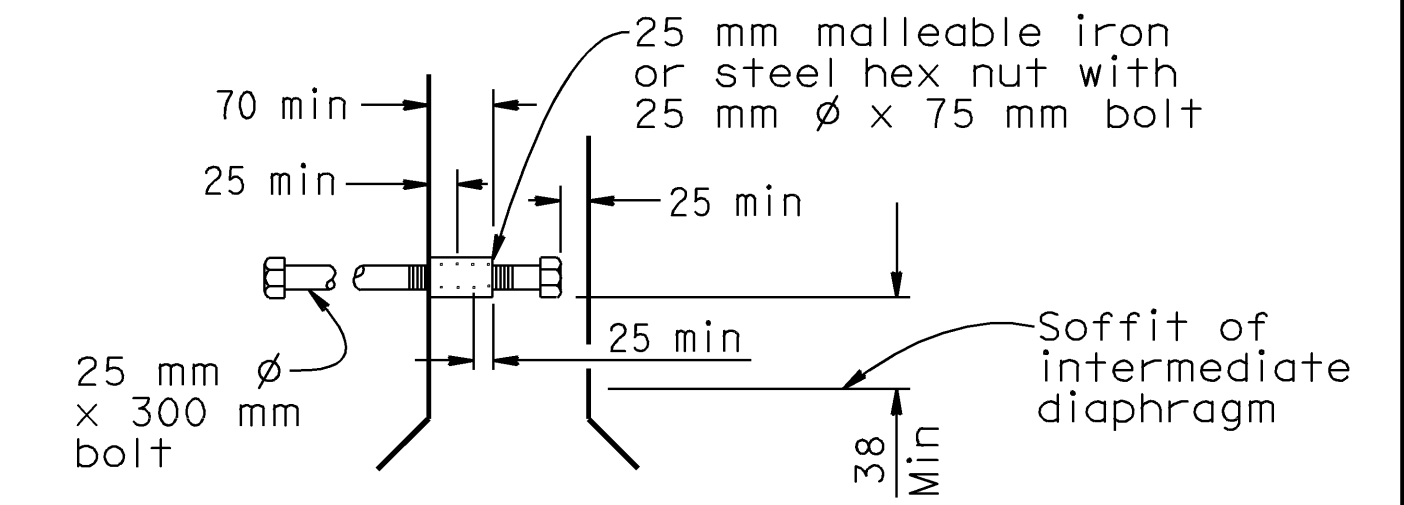
Michael J. Lee  
 REGISTERED CIVIL ENGINEER  
 3-20-06  
 PLANS APPROVAL DATE  
 No. C 42447  
 Exp. 3-31-08  
 CIVIL  
 STATE OF CALIFORNIA  
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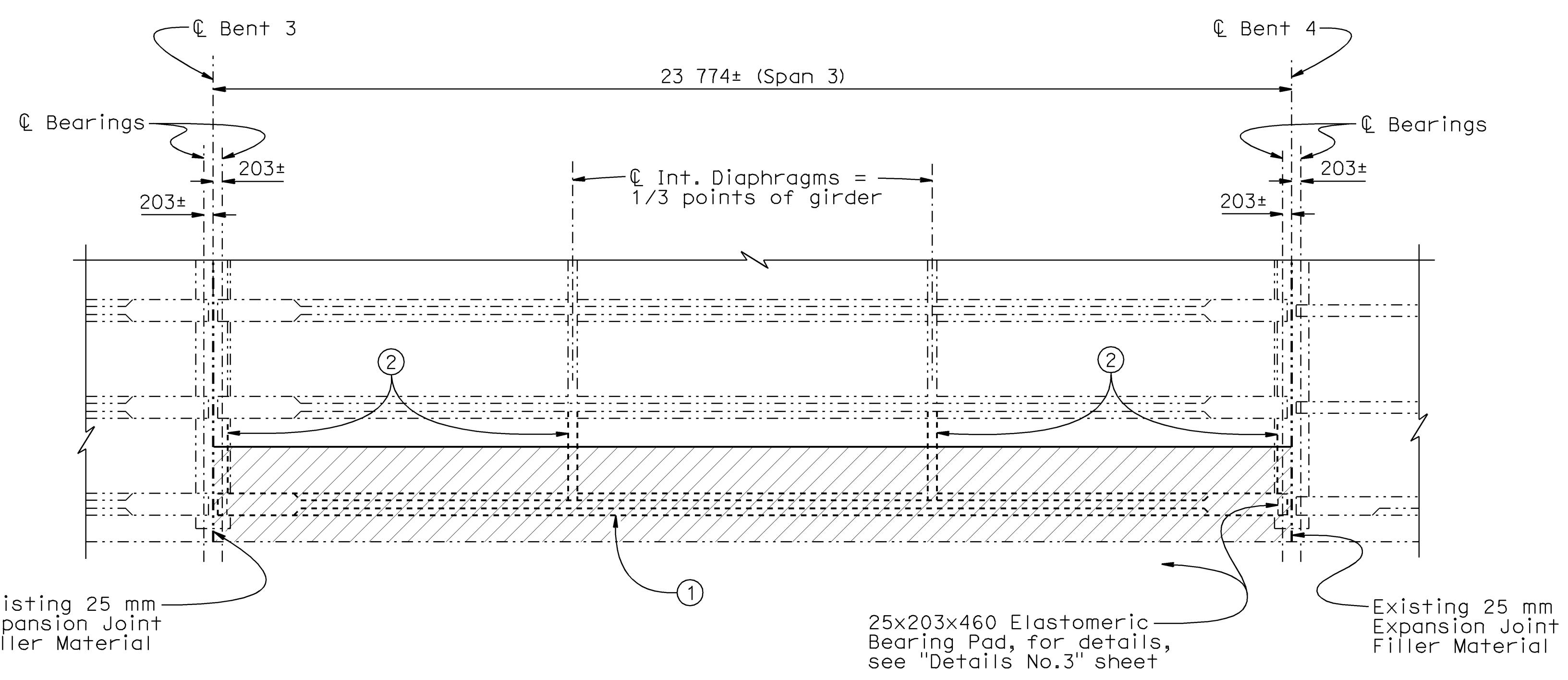
**EXISTING INTERMEDIATE DIAPHRAGM**  
No Scale



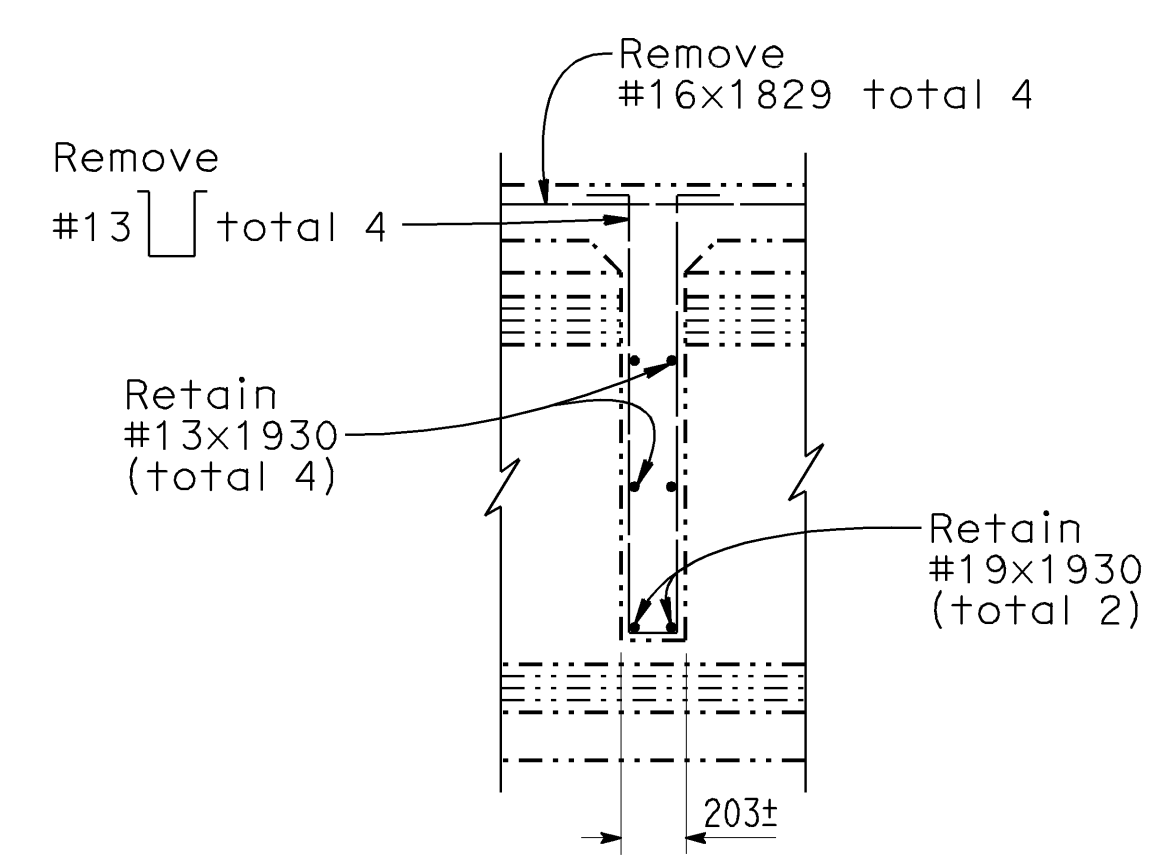
**RECONSTRUCTED INTERMEDIATE DIAPHRAGM**  
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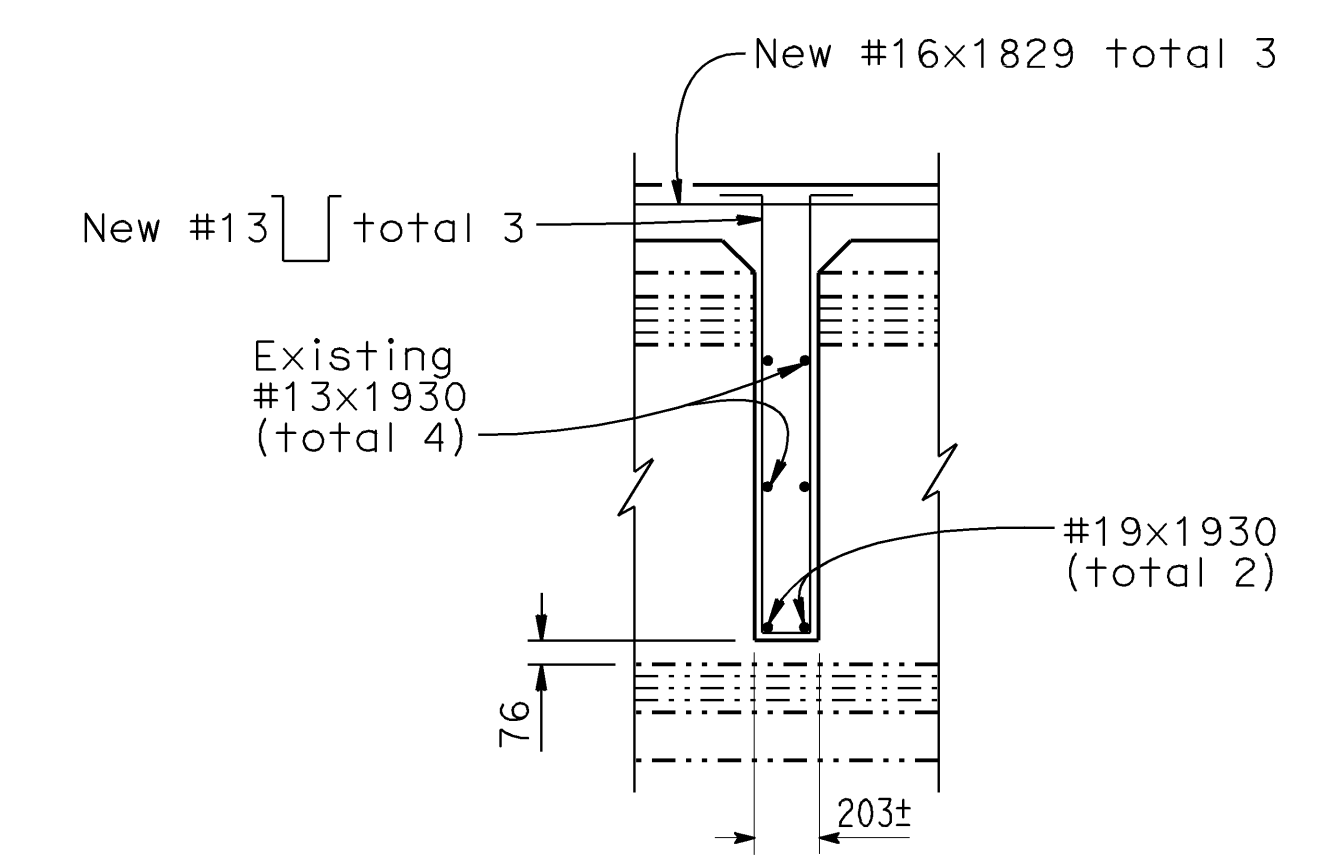
**INSERT ASSEMBLY**  
No Scale



**PARTIAL PLAN - GIRDER LAYOUT (SPAN 3)**  
1:80



**SECTION E-E**  
No Scale



**SECTION F-F**  
No Scale

- Notes:**
- ① - Remove existing damaged Precast P/S Concrete "I" Girder and install new Precast P/S Concrete "I" Girder.
  - ② - Remove existing concrete diaphragm prior to removal of existing damaged girder and reconstruct concrete diaphragm after new girder is placed.
  - ▨ - Indicates Limits of Remove Concrete Deck.
  - ▩ - Indicates Limits of Remove Existing Concrete.

**NOTE:**  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN BY R. Amir	CHECKED A. Frank	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. 53-1678	<b>PALO COMADO OC</b> <b>DETAILS NO.2</b>
DETAILS BY D. Pato	CHECKED A. Frank			KILOMETER POST 54.2	
QUANTITIES BY R. Amir	CHECKED A. Frank				

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS: 0 10 20 30 40 50 60 70 80 90 100  
 CU 07 EA 4K3801  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 7-22-05 8-23-05 10-03-05  
 REVISION DATES (PRELIMINARY STAGE ONLY)  
 SHEET 3 OF 7

CONTRACT NO: 07-4K3804  
 TRANSFER DATE: 07-15-2007  
 FIELD CORRECTION DATE: 11-15-2006  
 CORRECTIONS TRANSFERRED BY: BEM  
 FIELD CORRECTIONS BY: A. Amoye  
**NO AS BUILT CORRECTIONS**  
 NO SCALE  
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN  
 NO AS BUILT CORRECTIONS

**Caltrans**  
**Metric**

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL	SHEET No	TOTAL SHEETS
07	LA	101	54.2		17	19

Michael J. Lee  
REGISTERED CIVIL ENGINEER  
No. C 42447  
Exp. 3-31-08  
CIVIL  
STATE OF CALIFORNIA

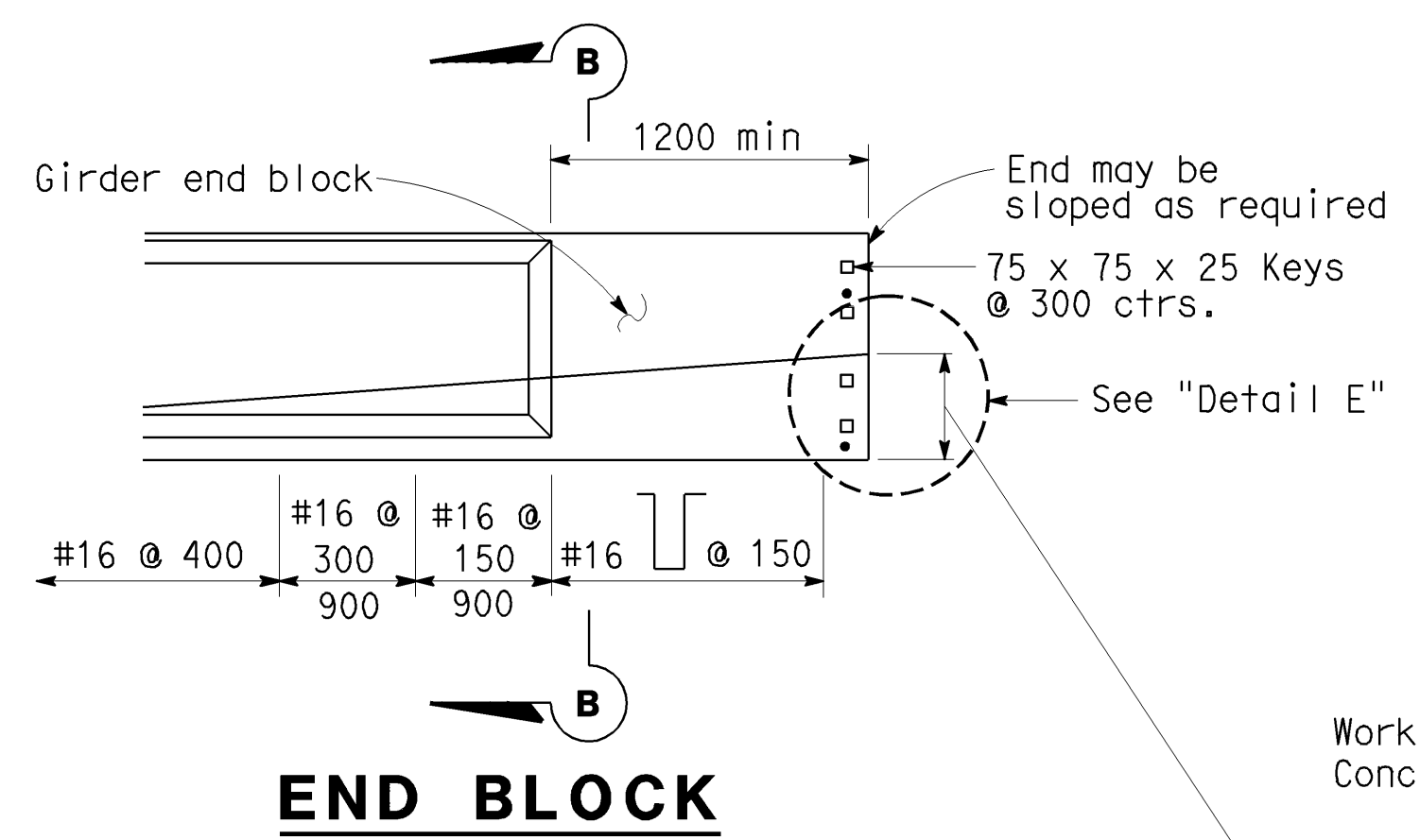
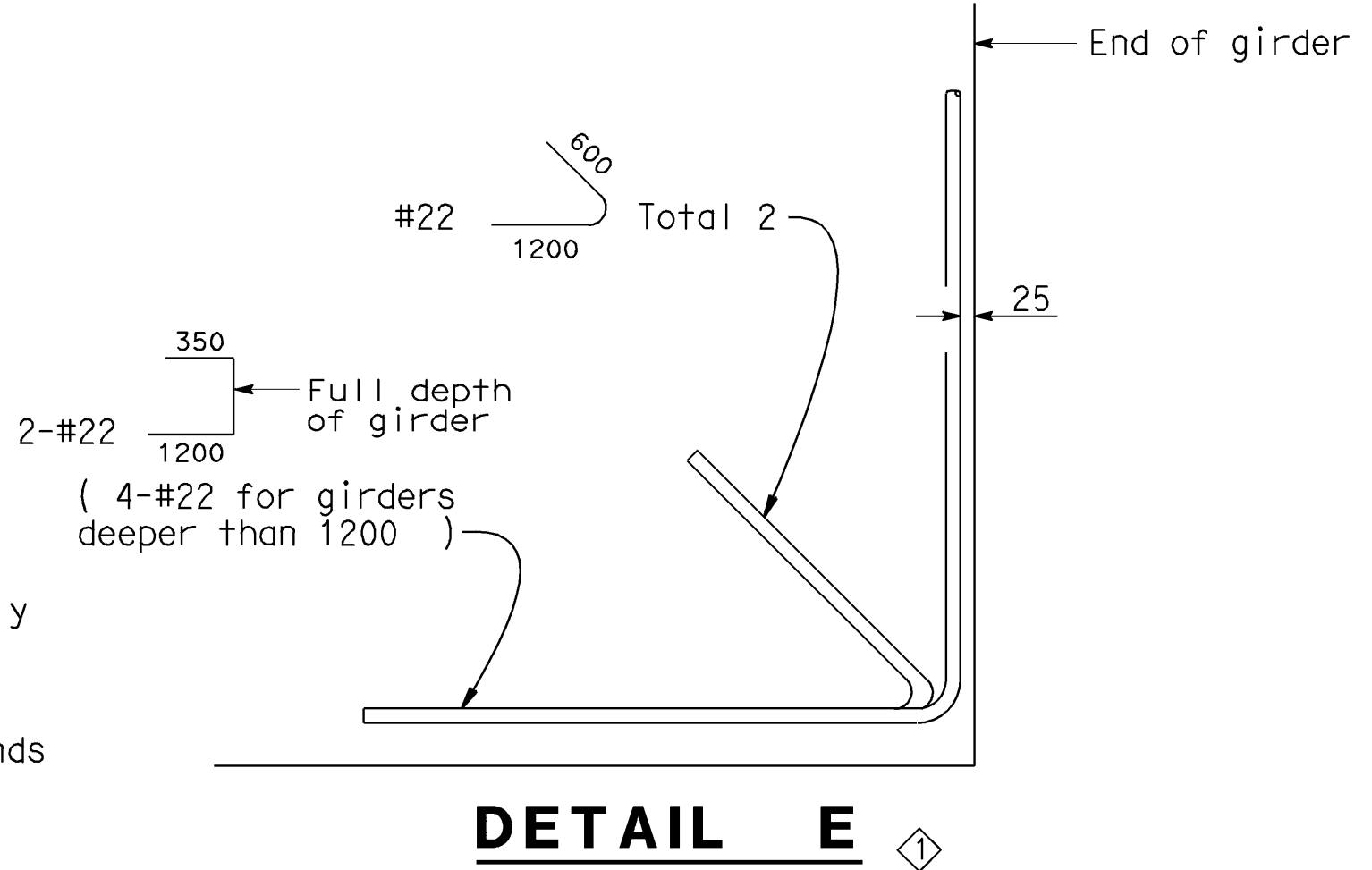
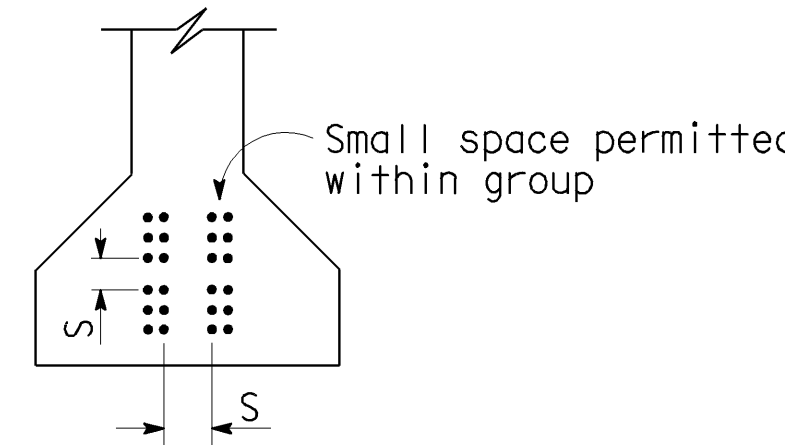
3-20-06  
PLANS APPROVAL DATE

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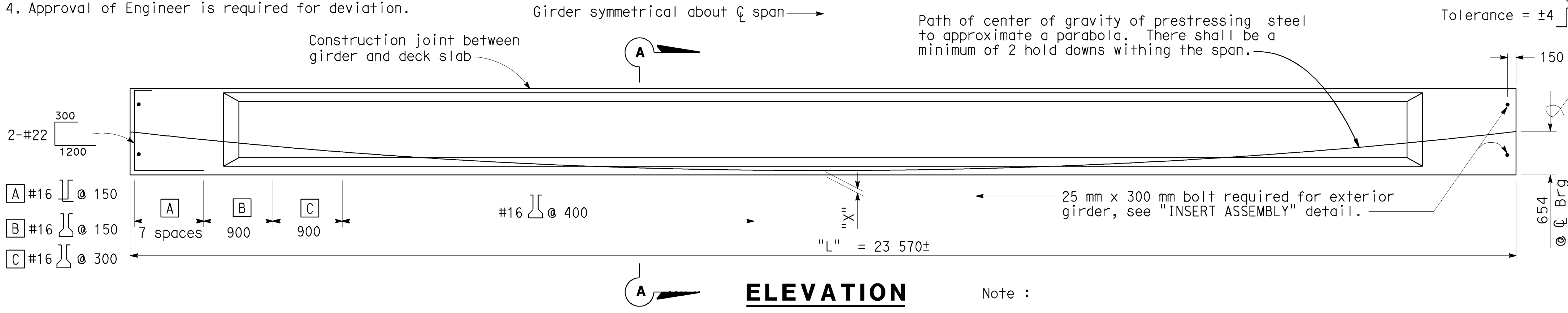
### CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically 2 horizontally, and separated at the ends.
2. The min distance "S" between groups or individual strands is 40 mm for 9.5 mm strands, 45 mm for 11 and 13 mm strands and 50 mm for 15 mm strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of Engineer is required for deviation.



### PRESTRESSING NOTES

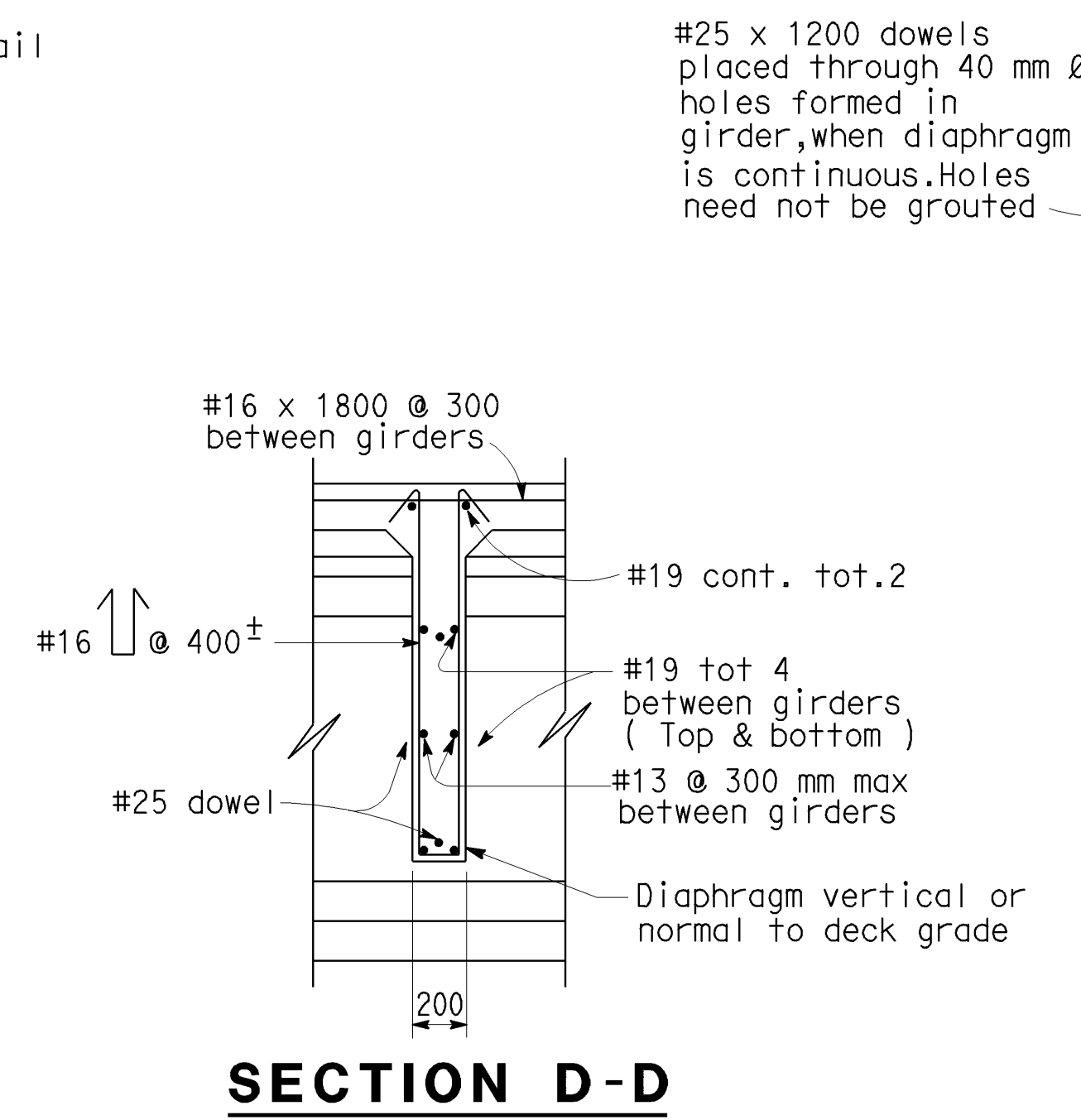
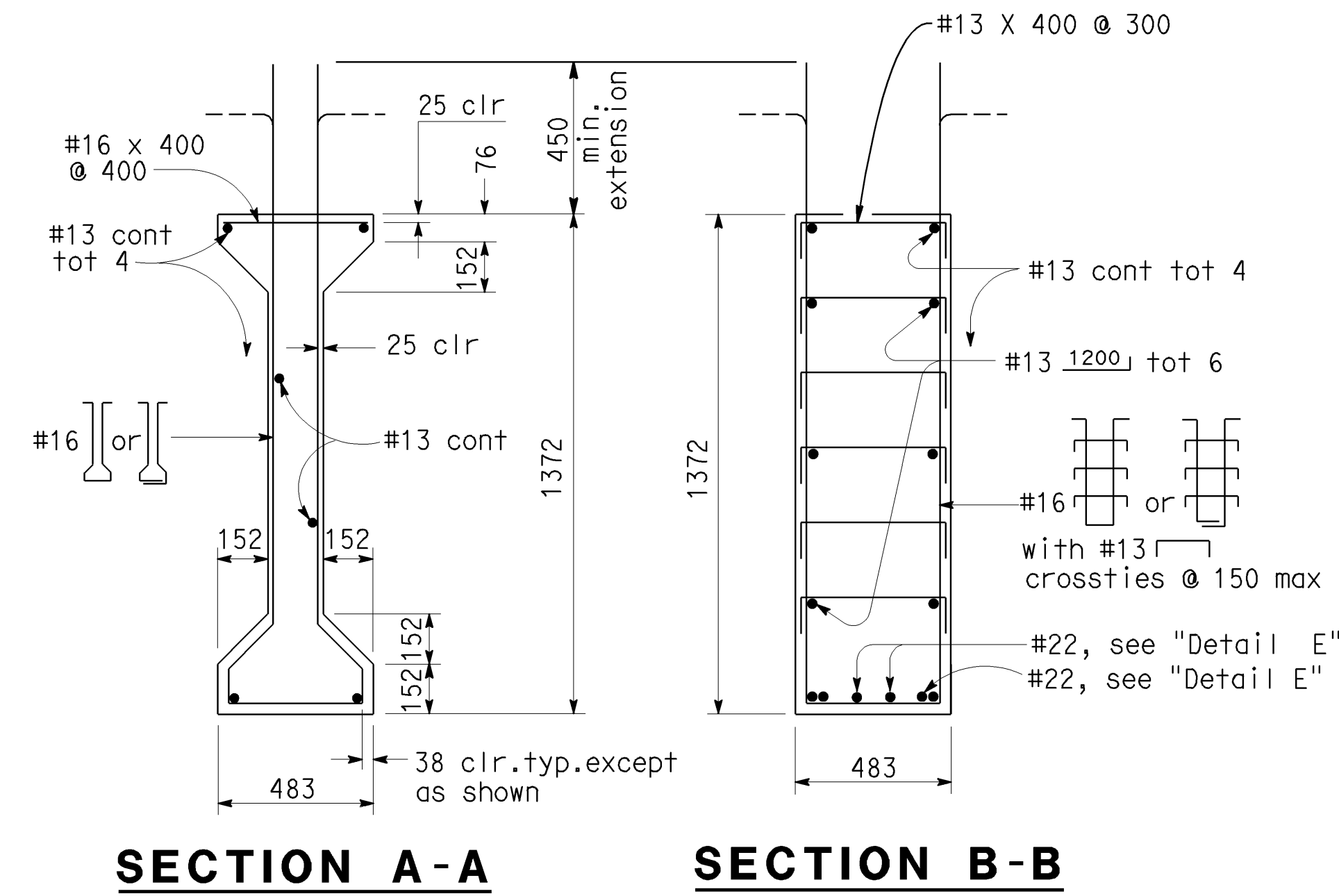
Working force : The force required at center of span after all losses.  
 Concrete strength :  $f'_{ci}$  is at time of initial stressing,  
 $f'_c$  is at 28 days, MPa.  
 Deflection components : Informational - to be used in setting screed line elevations.  
 Screed line elevations for deck concrete will be determined by the Engineer.  
 The Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.



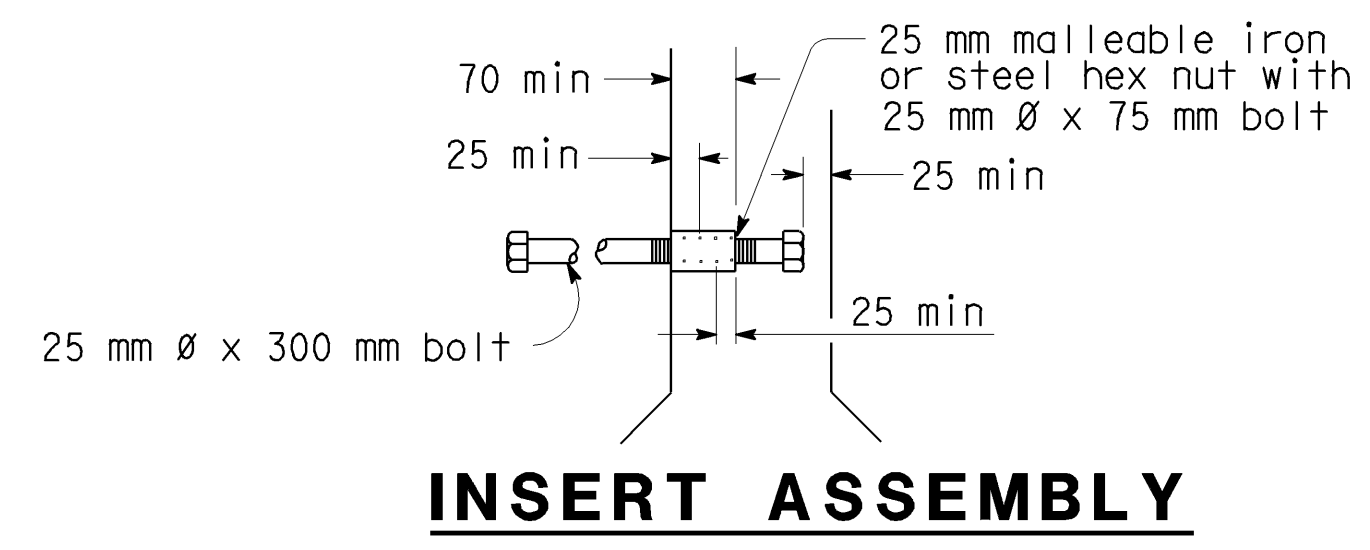
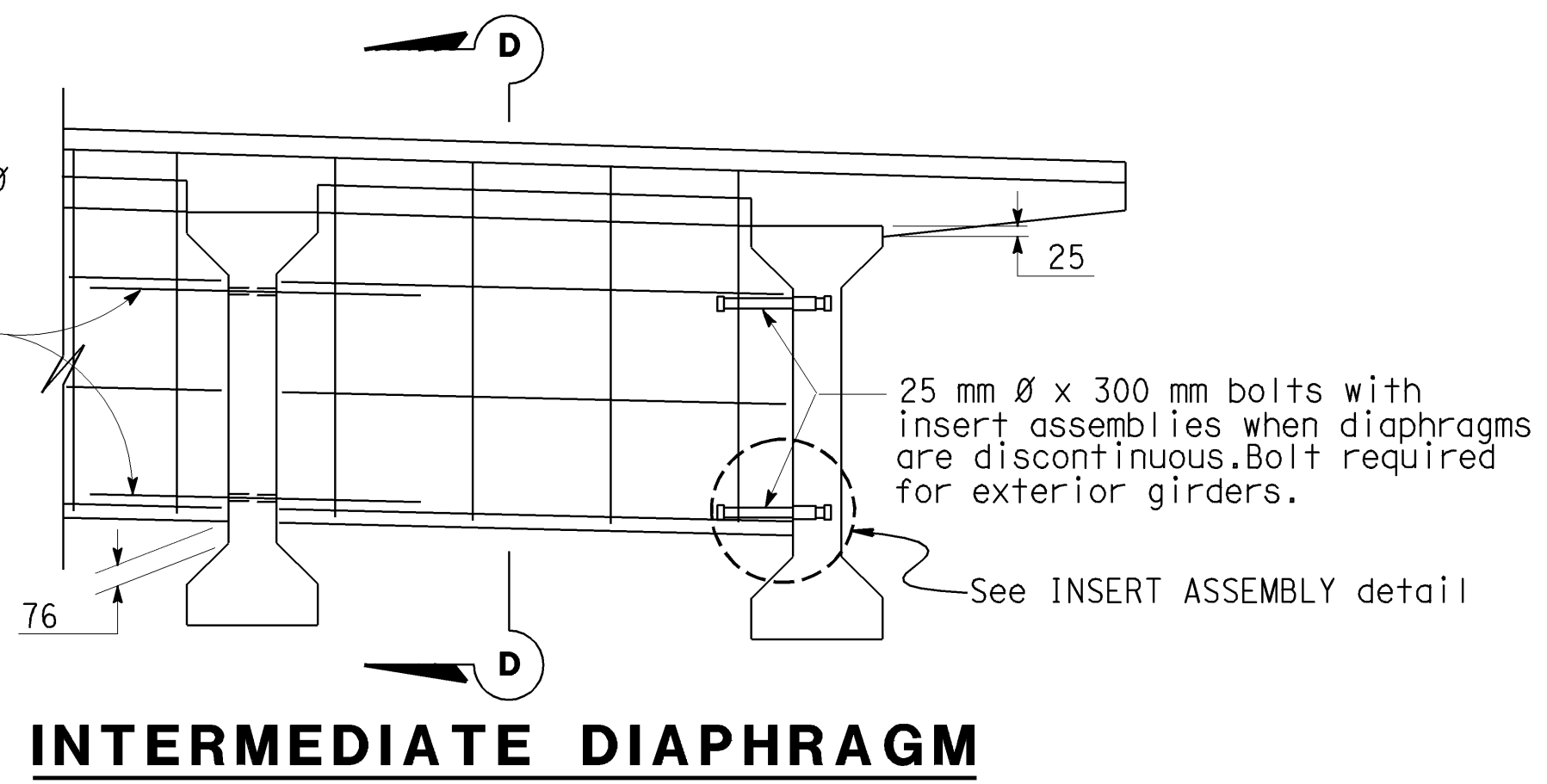
Girder location or designation and length	P = Working force in ( kN ) "X"	Concrete Strength		Deflection Components ( mm )	
		$f'_{ci}$	$f'_c$	① Deck DL	② Rail DL
23.57± m	76 1973	27.6	27.6	15.0	3.3
23.57± m	114 2060	27.6	27.6	15.0	3.3
23.57± m	152 2155	27.6	27.6	15.0	3.3

Note :  
 Details shown are for pretensioned girders. The Contractor may submit details for post-tensioning which shall meet the approval of the Engineer.

② - Deleted Detail



#25 x 1200 dowels placed through 40 mm Ø holes formed in girder, when diaphragm is continuous. Holes need not be grouted.



NOTE:  
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NO SCALE  
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

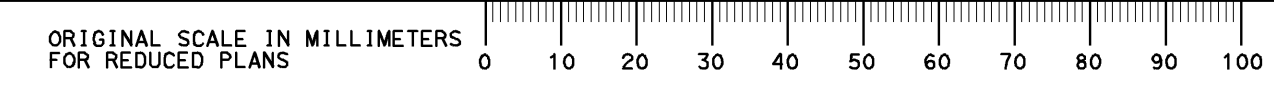
DESIGN	BY Rangina Amir	CHECKED Arlene Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	PALO COMADO OC PRESTRESSED I GIRDER
DETAILS	BY Roelina Martinez	CHECKED Arlene Frank			53-1678	
QUANTITIES	BY Rangina Amir	CHECKED Arlene Frank			KILOMETER POST 54.2	

CU 07  
EA 4K3801

REVISION DATES (PRELIMINARY STAGE ONLY)

8-1-05	8-23-05	10-03-05	10-03-05	10-05-05
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SHEET 5 OF 7



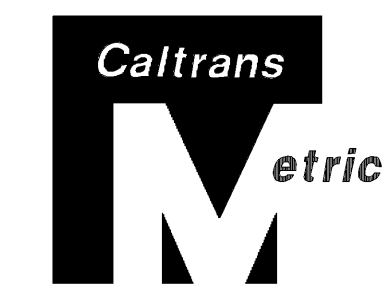
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CONTRACT NO: 07-4K3804  
 TRANSFER DATE: 07-15-2007  
 FIELD CORRECTION DATE: 11-15-2006

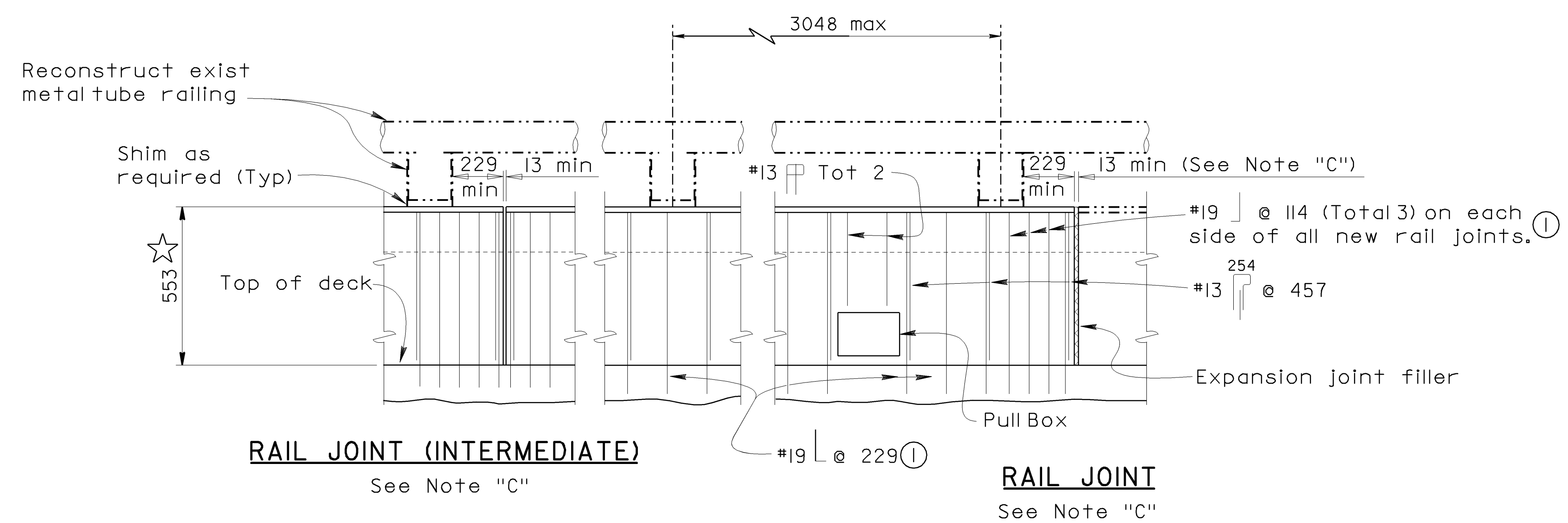
CORRECTIONS TRANSFERRED BY: BEM  
 A. Amboye  
 FIELD CORRECTIONS BY:

**NO AS BUILT CORRECTIONS**



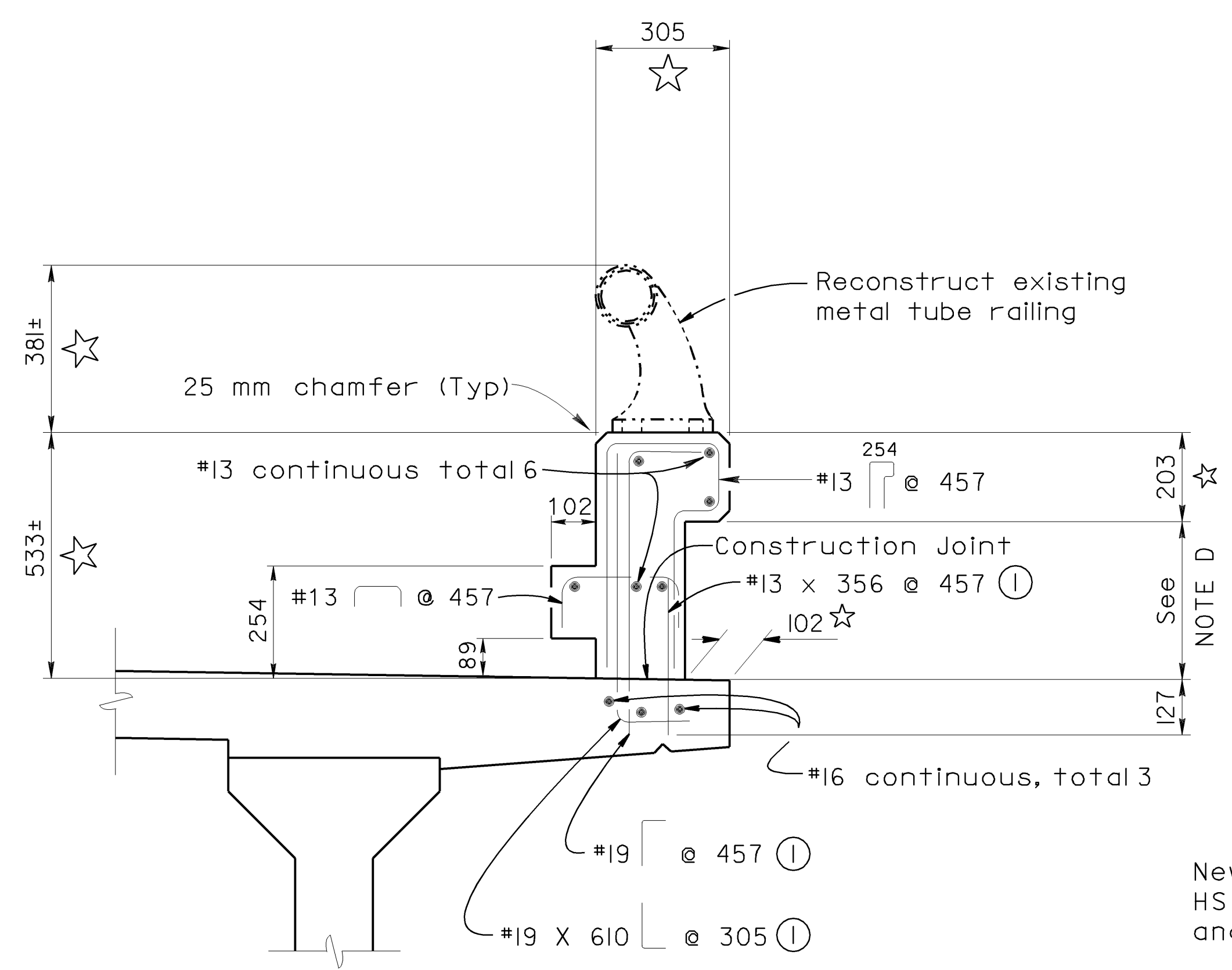
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101	54.2	18	19

Michael J. Lee  
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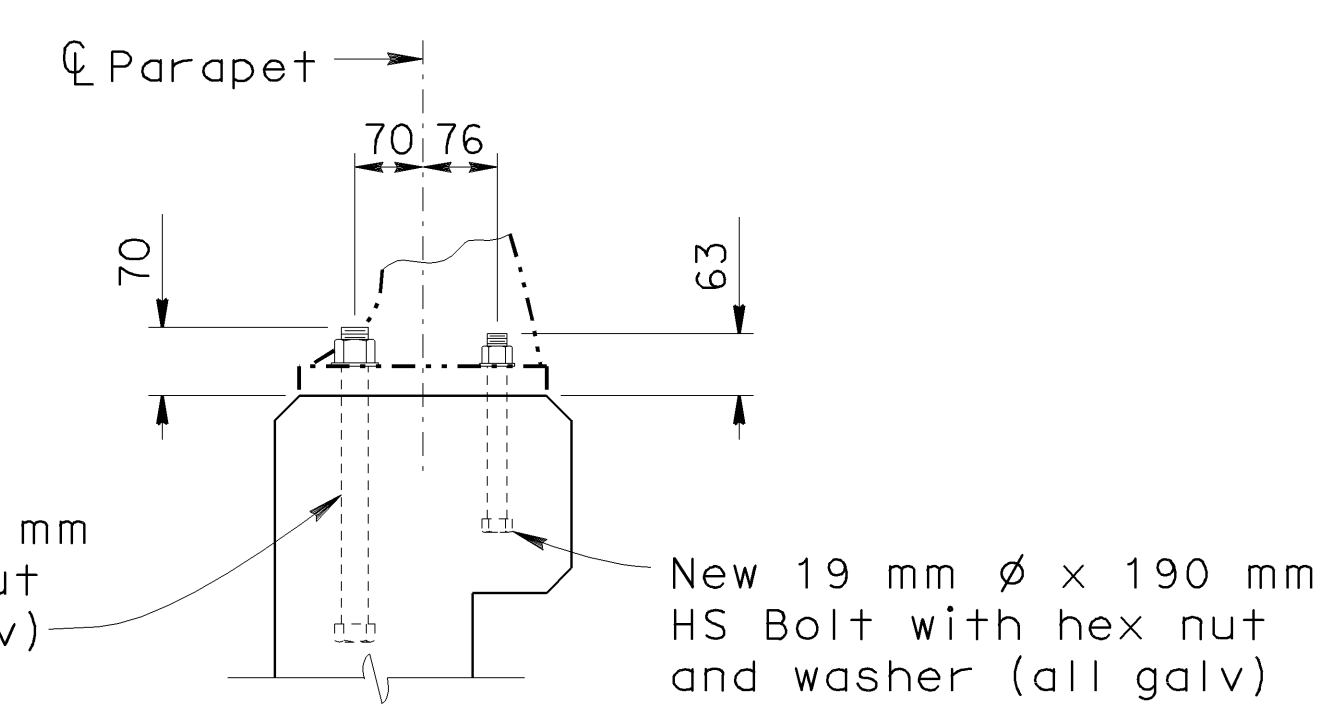


**BARRIER RAILING ELEVATION**  
 NO SCALE

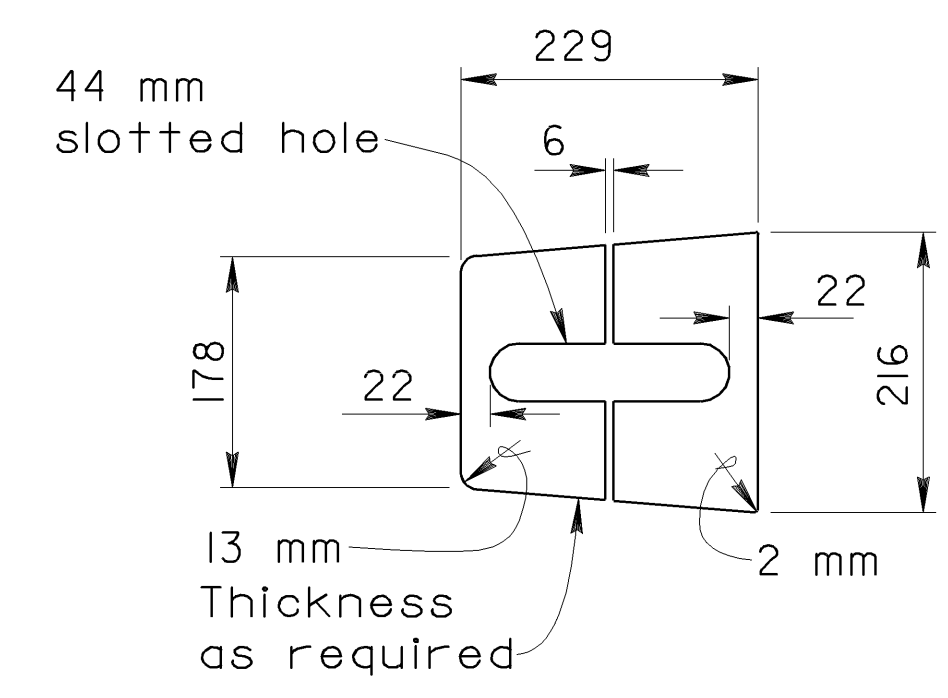
- NOTES: (Notes apply to this sheet only)
- A. Railing shall conform to horizontal and vertical alignment.
  - B. Posts shall be normal to railing.
  - C. New rail joint locations shall be similar to the existing locations (12 m max spacing). Joint size to be 6 mm min and increase to match deck joint + 6mm.
  - D. Dimension will vary with cross-slope of deck (match existing dimensions).
  - E. Clearance to reinforcing steel in curb and railing to be 25 mm. Longitudinal railing reinforcement to stop at all joints in the railing.
- ① Reinforcing to be in place before deck concrete is placed.  
 ☆ Indicates match existing dimensions.



**BARRIER RAILING SECTION**  
 NO SCALE



**RAIL POST ANCHOR BOLT DETAIL**  
 NO SCALE



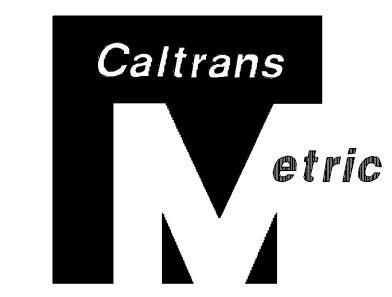
**SHIM DETAIL**  
 NO SCALE

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN BY Rangina Amir	CHECKED Arlene Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. 53-1678	PALO COMADO OC CONCRETE BARRIER (TYPE 1) DETAILS
DETAILS BY Roelina Martinez	CHECKED Arlene Frank			KILOMETER POST 54.2	
QUANTITIES BY Rangina Amir	CHECKED Arlene Frank				
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS			CU 07 EA 4K3801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
0 10 20 30 40 50 60 70 80 90 100				7-27-05 10-03-05	SHEET 6 OF 7

DATE PLOTTED => 26-JUL-2007  
 USERNAME => bml11er



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
07	LA	101	54.2		19	19

Michael J. Lee  
 REGISTERED CIVIL ENGINEER

3-20-06  
 PLANS APPROVAL DATE

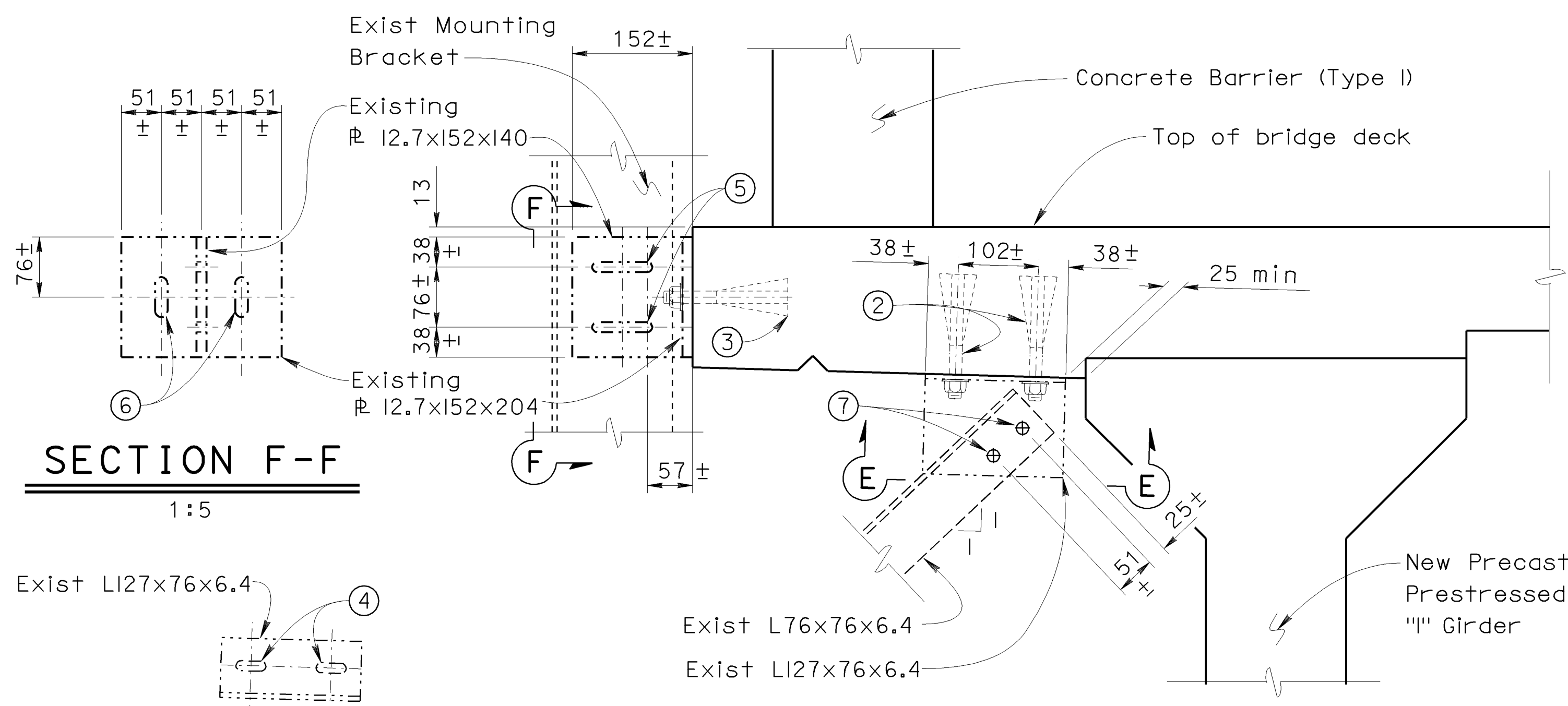
No. C 42447  
 Exp. 3-31-08  
 CIVIL  
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

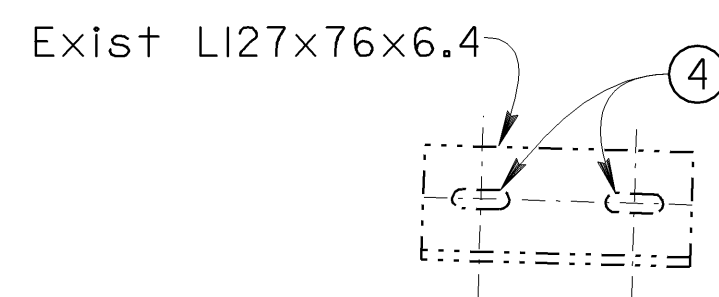
Caltrans now has a web site! To get to this site, go to: <http://www.dot.ca.gov>

NOTES: (APPLY TO THIS SHEET ONLY)

- ① Remove and reinstall existing structure mounted sign and all brackets and hardware except where shown otherwise and as directed by the Engineer.
  - ② New 15.9 mm  $\phi$  non-corrodible expansion anchor with hex head nut and washer; with 127 mm embedment. Pull out value 26.7 kN per anchor.
  - ③ New 2 - 15.9 mm  $\phi$  non-corrodible expansion anchors with hex head nuts and washers; with 127 mm embedment. Pull out value 26.7 kN per anchor.
  - ④ Existing 38 mm x 19 mm slotted hole for new expansion anchor.
  - ⑤ Existing 76 mm x 15.9 mm slotted hole for existing 12.7 mm  $\phi$  hex head bolt, nut, flat washer and lock washer.
  - ⑥ Existing 51 mm x 19 mm slotted hole for new expansion anchor.
  - ⑦ Existing hole for existing 15.9 mm  $\phi$  hex head bolt with nut and lockwasher.
- For PC/PS I Girder and deck reinforcement placement notes, see **B0-5**

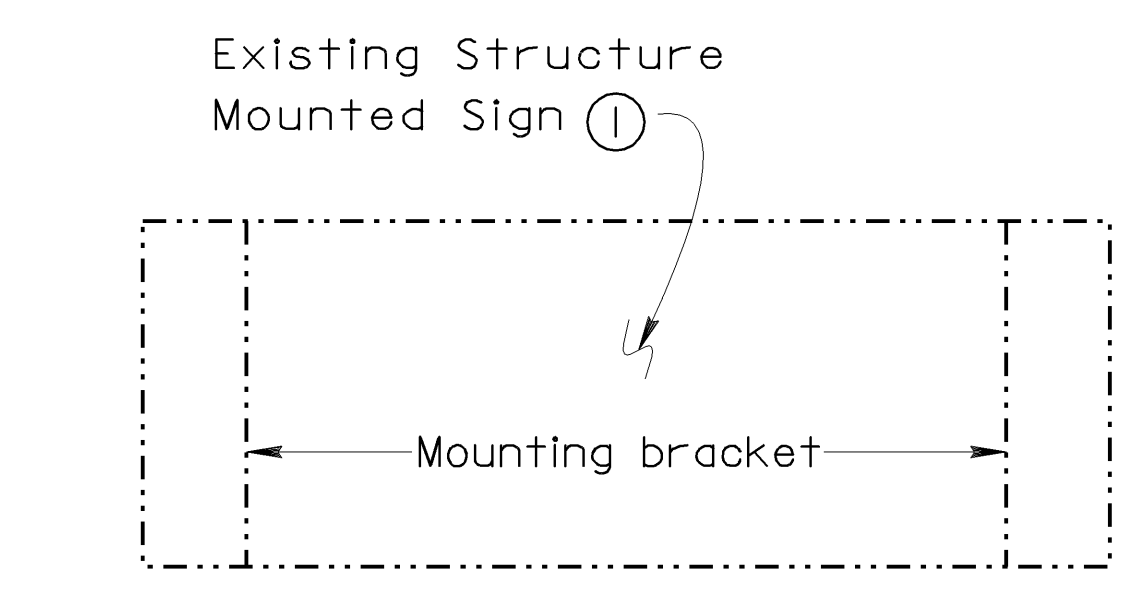


**SECTION F-F**  
 1:5



**SECTION E-E**  
 1:5

**EXISTING STRUCTURE MOUNTED SIGN ANCHORAGE DETAIL**  
 NO SCALE

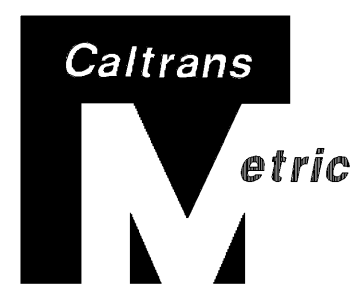


**EXISTING STRUCTURE MOUNTED SIGN MOUNTING BRACKET LOCATIONS (TOTAL 2)**  
 NO SCALE

NOTE:  
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DESIGN BY Rangina Amir	CHECKED Arlene Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. 53-1678	PALO COMADO OC SIGN DETAILS
DETAILS BY Roelina Martinez	CHECKED Arlene Frank		KILOMETER POST 54.2		
QUANTITIES BY Rangina Amir	CHECKED Arlene Frank				
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS			CU 07 EA 4K3801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
0 10 20 30 40 50 60 70 80 90 100			8-24-05	10-05-05	SHEET 7 OF 7



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	101	54.2	16	19

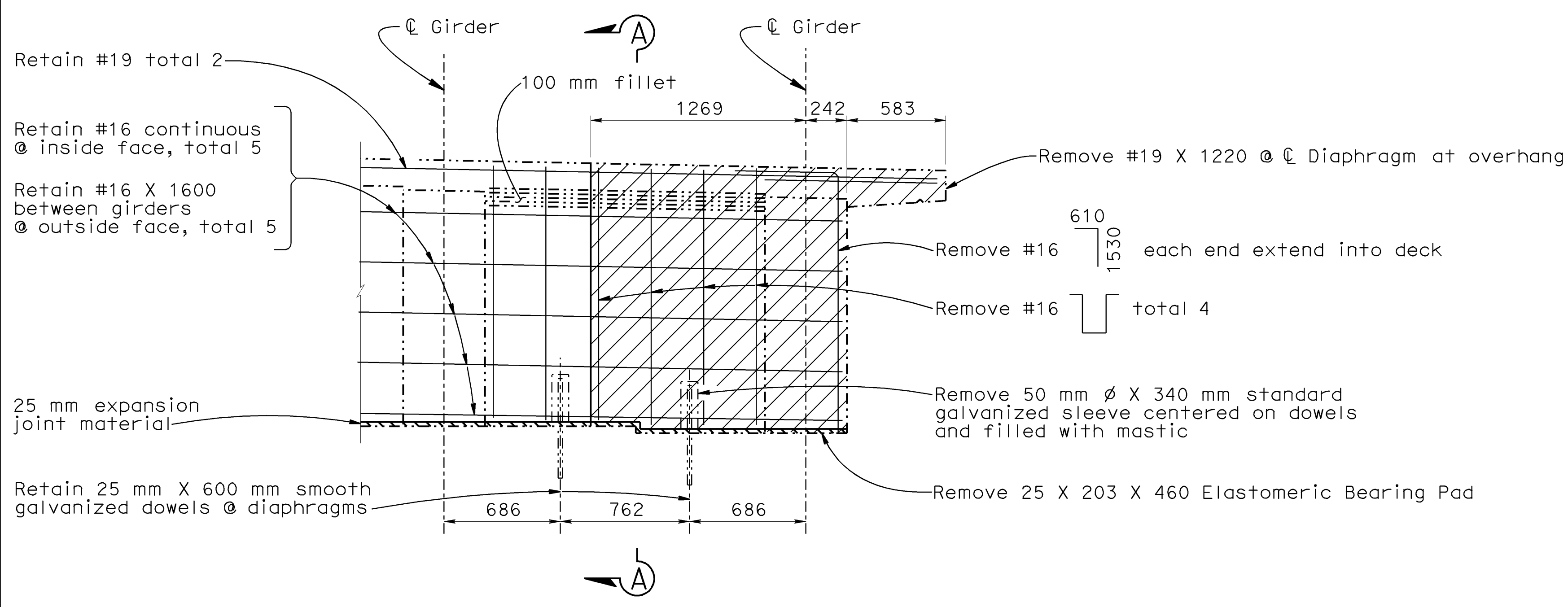
*Michael J. Lee*  
REGISTERED CIVIL ENGINEER  
No. C 42447  
Exp. 3-31-08  
CIVIL  
STATE OF CALIFORNIA

3-20-06  
PLANS APPROVAL DATE

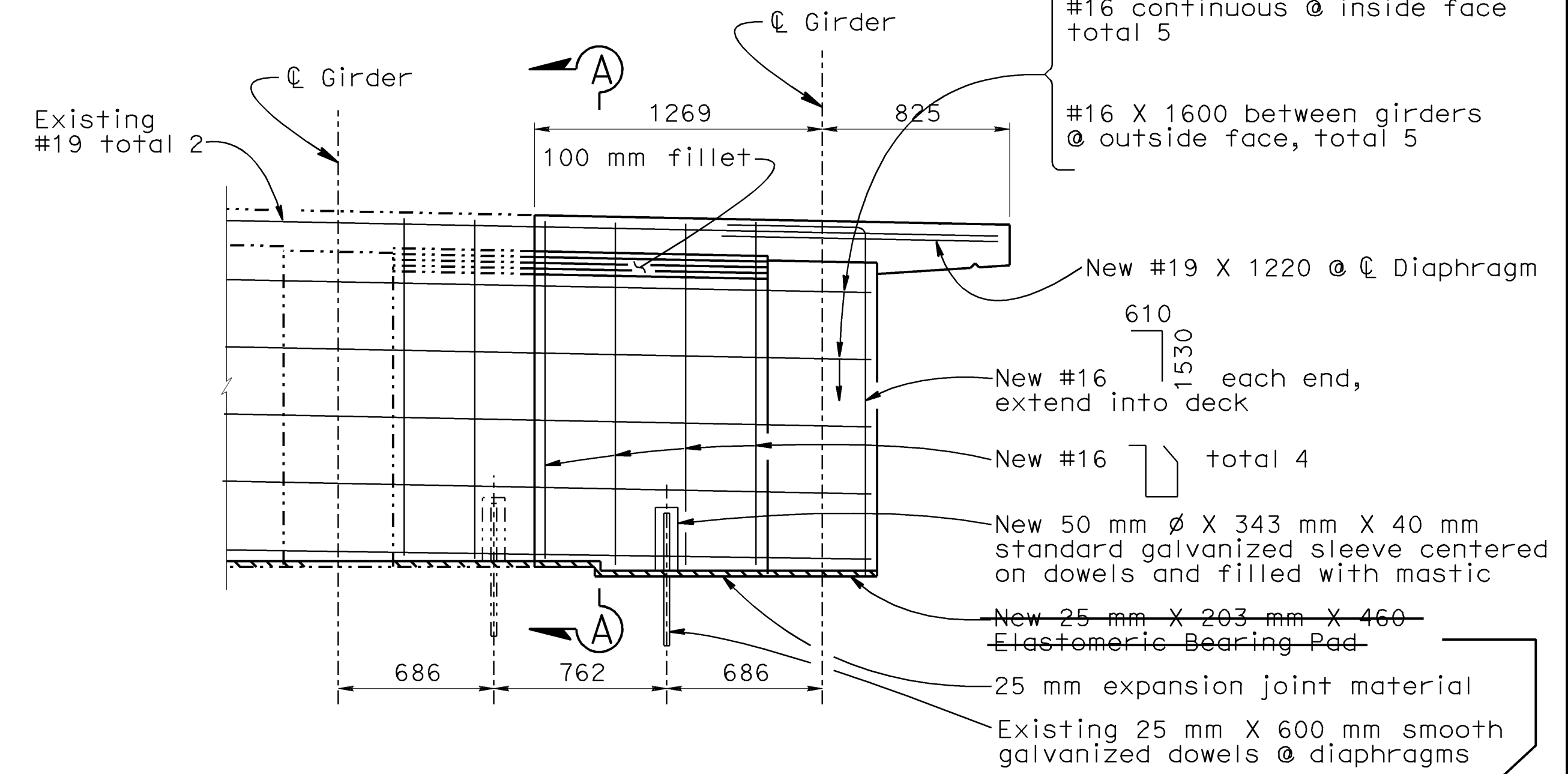
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- LEGEND:
- ..... Indicates existing concrete.
  - Indicates new construction.
  - Indicates limits of removal of existing concrete and reinforcement.

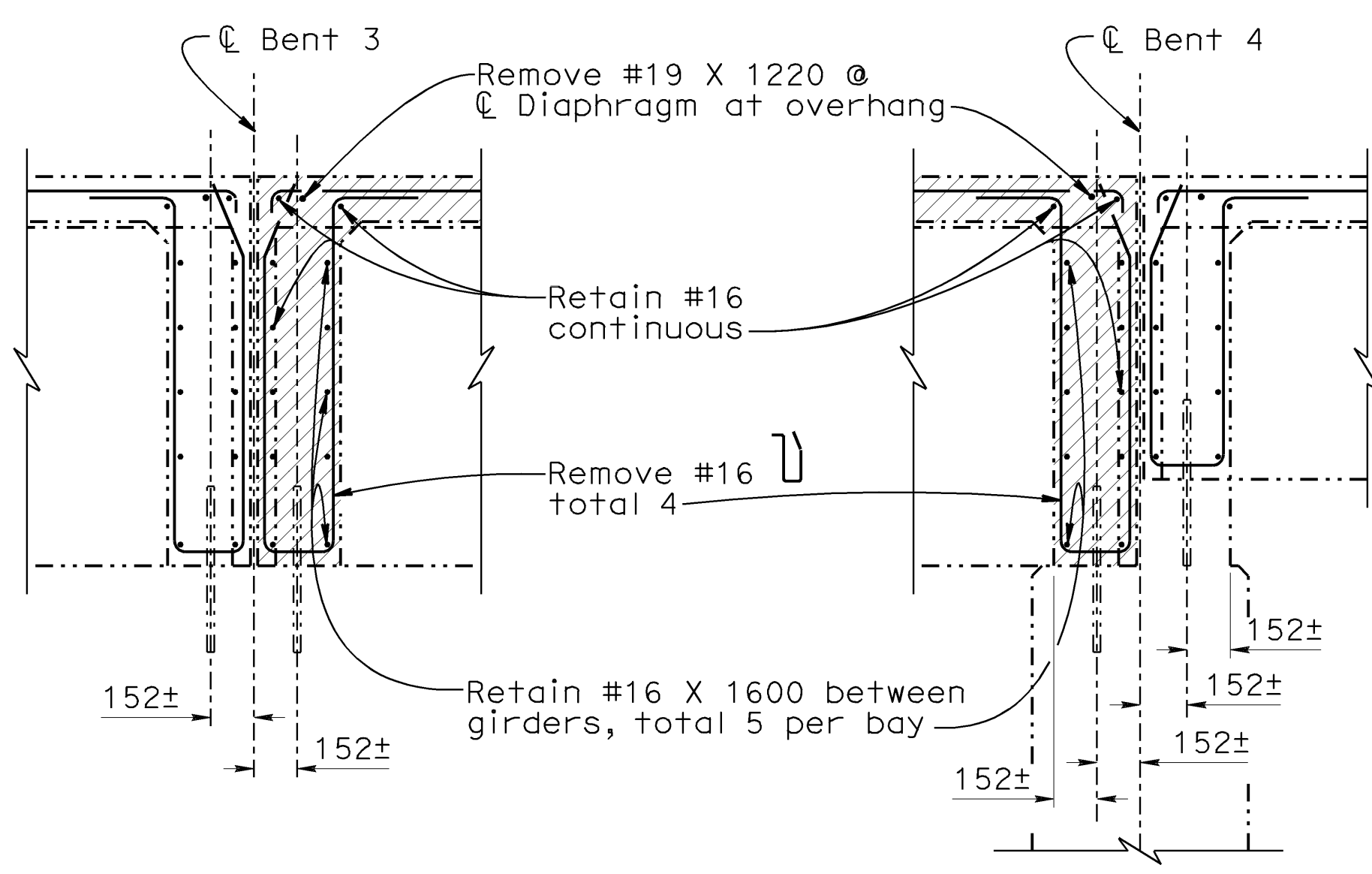


**EXISTING - PARTIAL TYPICAL SECTION AT BENT**  
1:20

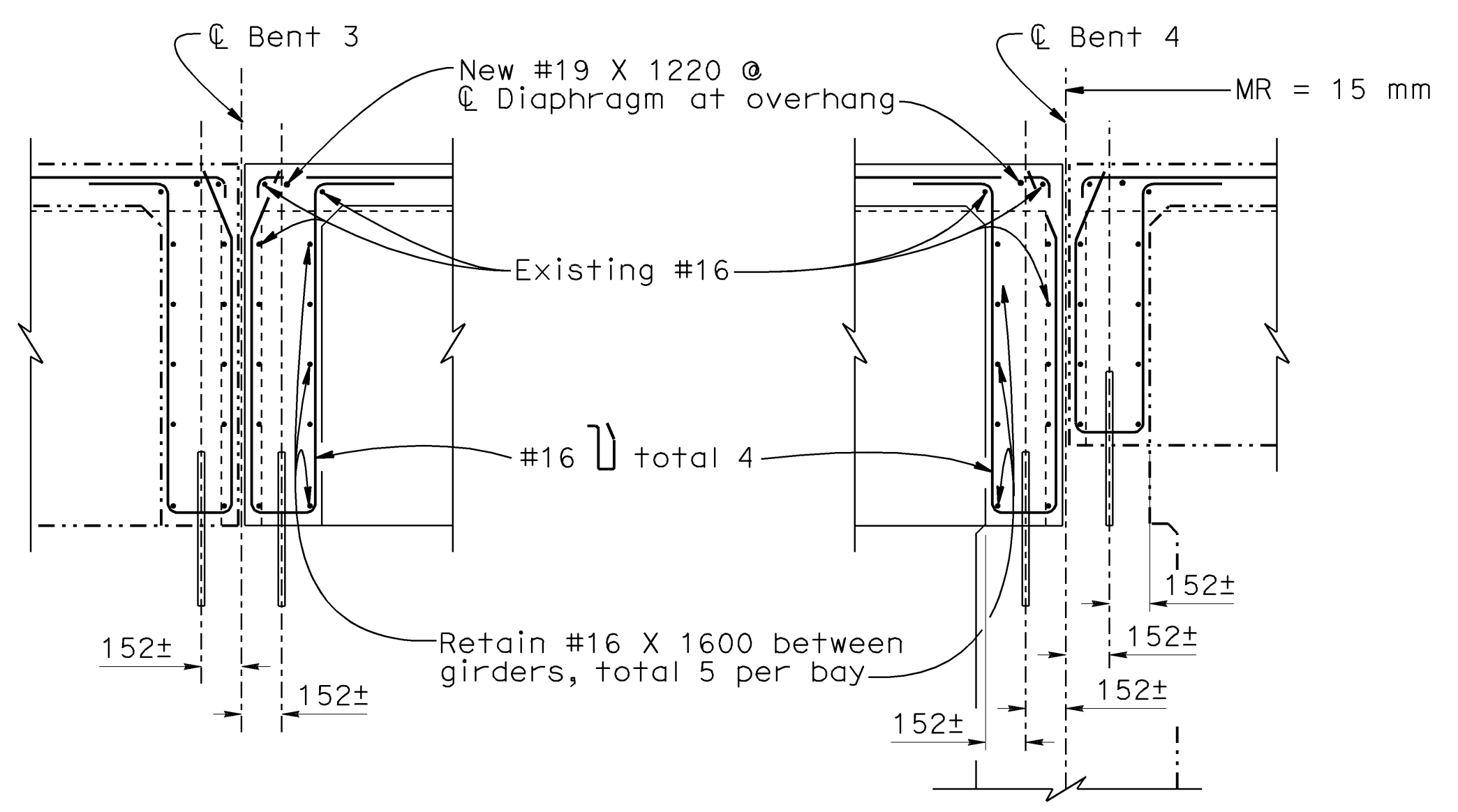


**RECONSTRUCTION - PARTIAL TYPICAL SECTION AT BENT**  
1:20

Replaced with 25mm x 254mm x 380mm



**EXISTING - SECTION A-A**  
1:20

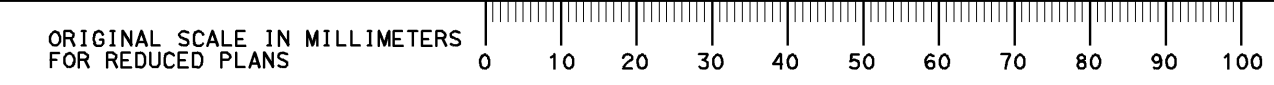


**RECONSTRUCTION - SECTION A-A**  
1:20

NOTE:  
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ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Rangina Amir	CHECKED Arlene Frank	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	<b>PALO COMADO OC</b> <b>DETAILS NO.3</b>	
DETAILS	BY Roelina Martinez	CHECKED Arlene Frank			53-1678		
QUANTITIES	BY Rangina Amir	CHECKED Arlene Frank			KILOMETER POST 54.2		
				CU 07 EA 4K3801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 4 OF 7



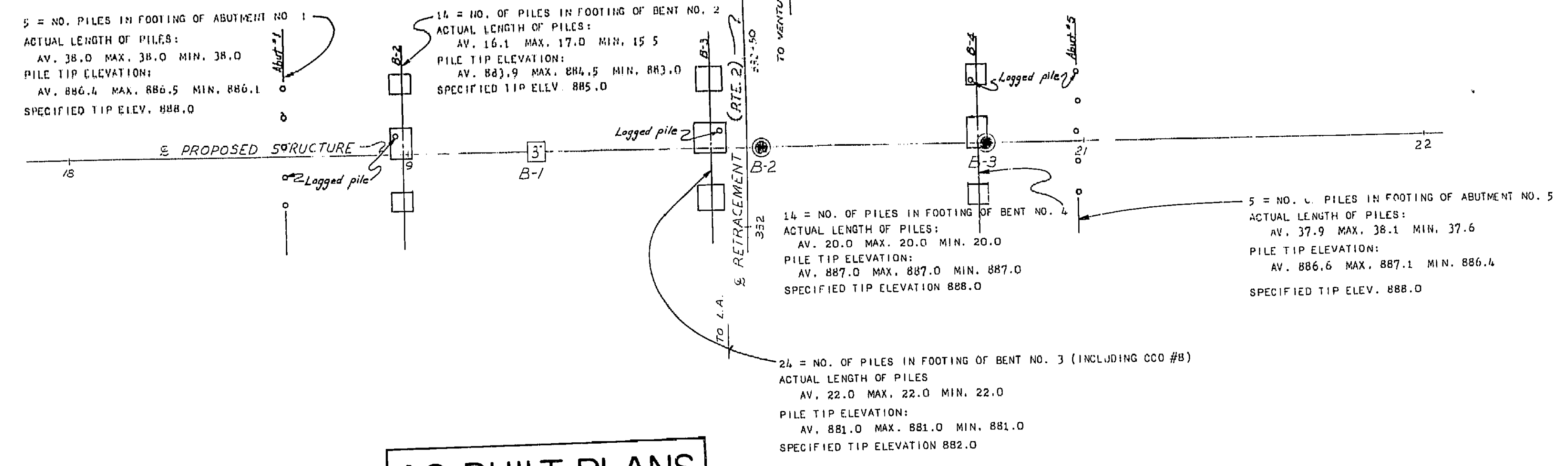
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			1	1

DIST.	COUNTY	PROJECT	SHEET NO.	TOTAL SHEETS
VII	LA	5	1	1

DATE APPROVED: 2/20/63

**BENCH MARK #335-2LAC-58**  
 Fd 1, 47 in middle West edge of D1 on E. Ven. at Sta 335+62.91  
 P.O.T. 100' ± E. Chesebro Rd. pointed "TR 197"

ELEV. 907.95



**AS BUILT PLANS**  
 Contract No. 63-7V13C58  
 Date Completed \_\_\_\_\_  
 Document No. 70002373

**PILE DATA**

TYPE OF PILE - C.I.D.H.  
 HAMMER DATA -  
 PILE DIAMETER: TIP 16" BUTT 15"  
 PILE DESIGN LOAD = 45 TONS  
 FOR THE STRUCTURE:  
 NUMBER OF PILES = 55 + 7 IN CCO #8  
 EST. LENGTH OF PILING = 1,213 L.F.  
 ACTUAL LENGTH OF PILING = 1,259.2 + 154.0 L.F. CCO #8

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 3-22-63 AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, B.S.C.E. TRACINGS CORRECTED BY: M.J.R. DATE: 10-29-63

NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION DATE: June 1961

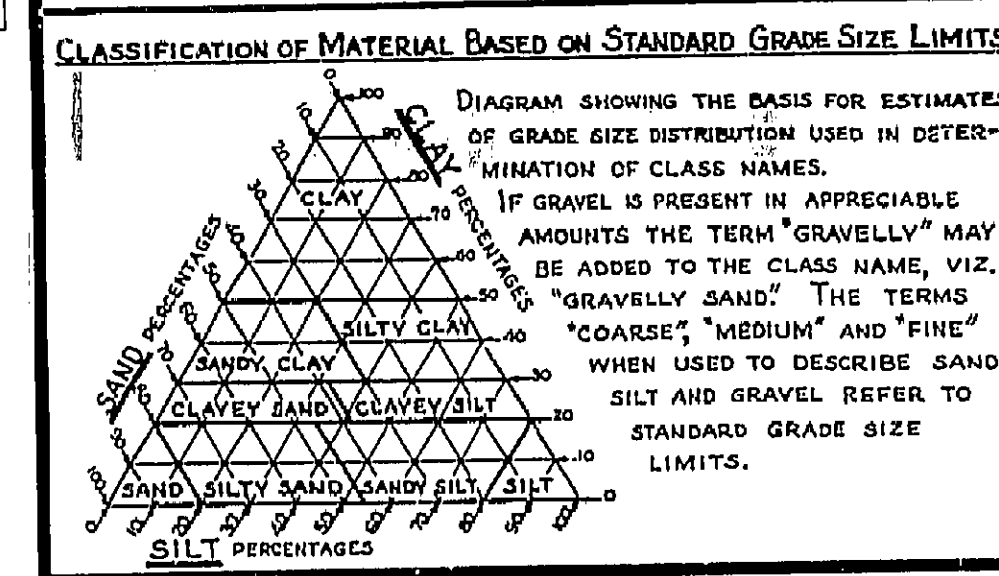
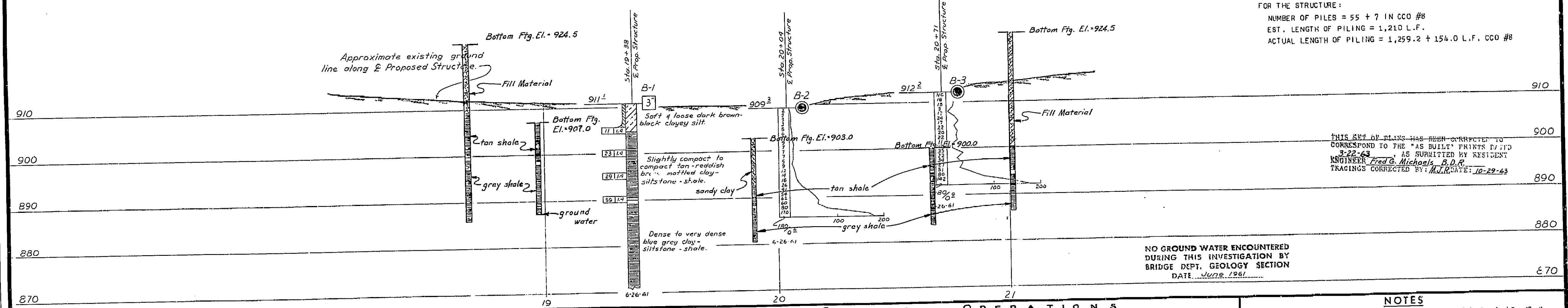
**NOTES**

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans. Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

**CHESEBRO RD. OVERCROSSING**  
**LOG OF TEST BORINGS**

Scale: Horiz 1"=20', Vert 1"=10'  
 BRIDGE 53-1678 FILE DRAWING C-531678-15  
 P.E.L. DRAWING P-531678-15



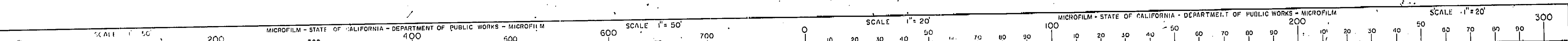
**LEGEND OF EARTH MATERIALS**

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC MATTER
SILT	FILL MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK

**LEGEND OF BORING OPERATIONS**

PENETROMETER	2 1/4" CONE PENETROMETER	SAMPLER BORING (DRY)	ROTARY BORING (WET)	AUGER BORING (DRY)	JET BORING	CORE BORING	TEST PIT
1" SOIL TUBE	ROTTARY BORING	PENETRATION BORING					

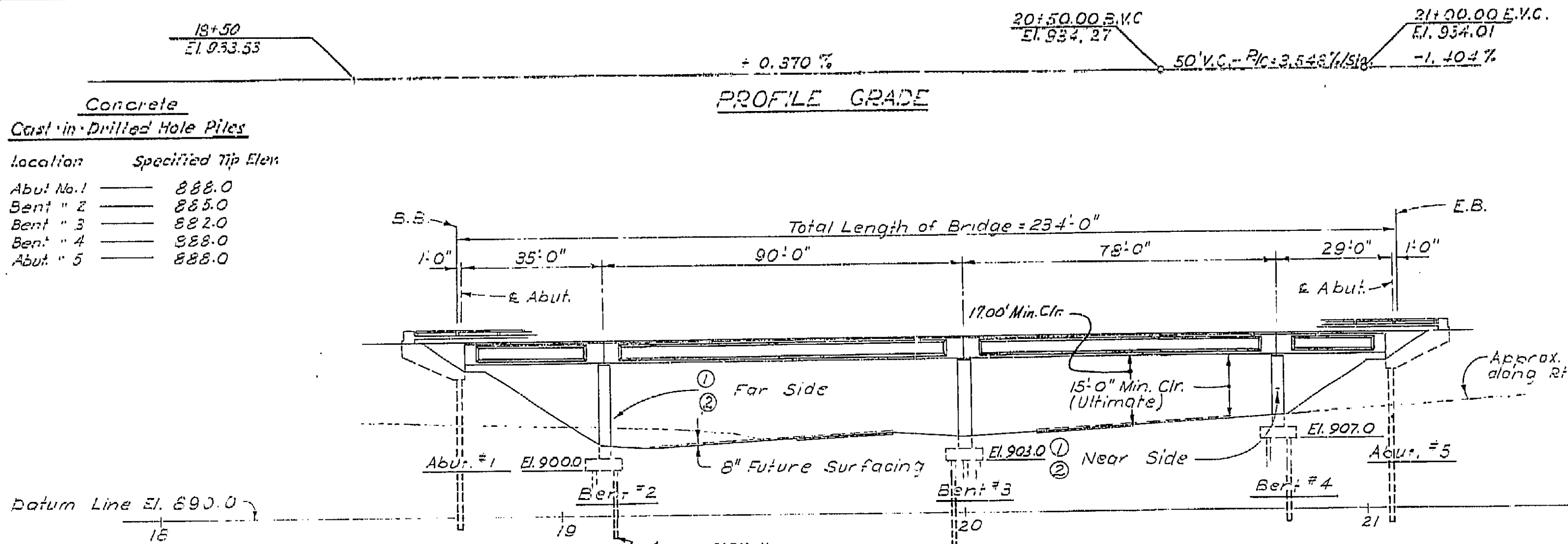
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_



FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		57	15

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	LA	5		57	15

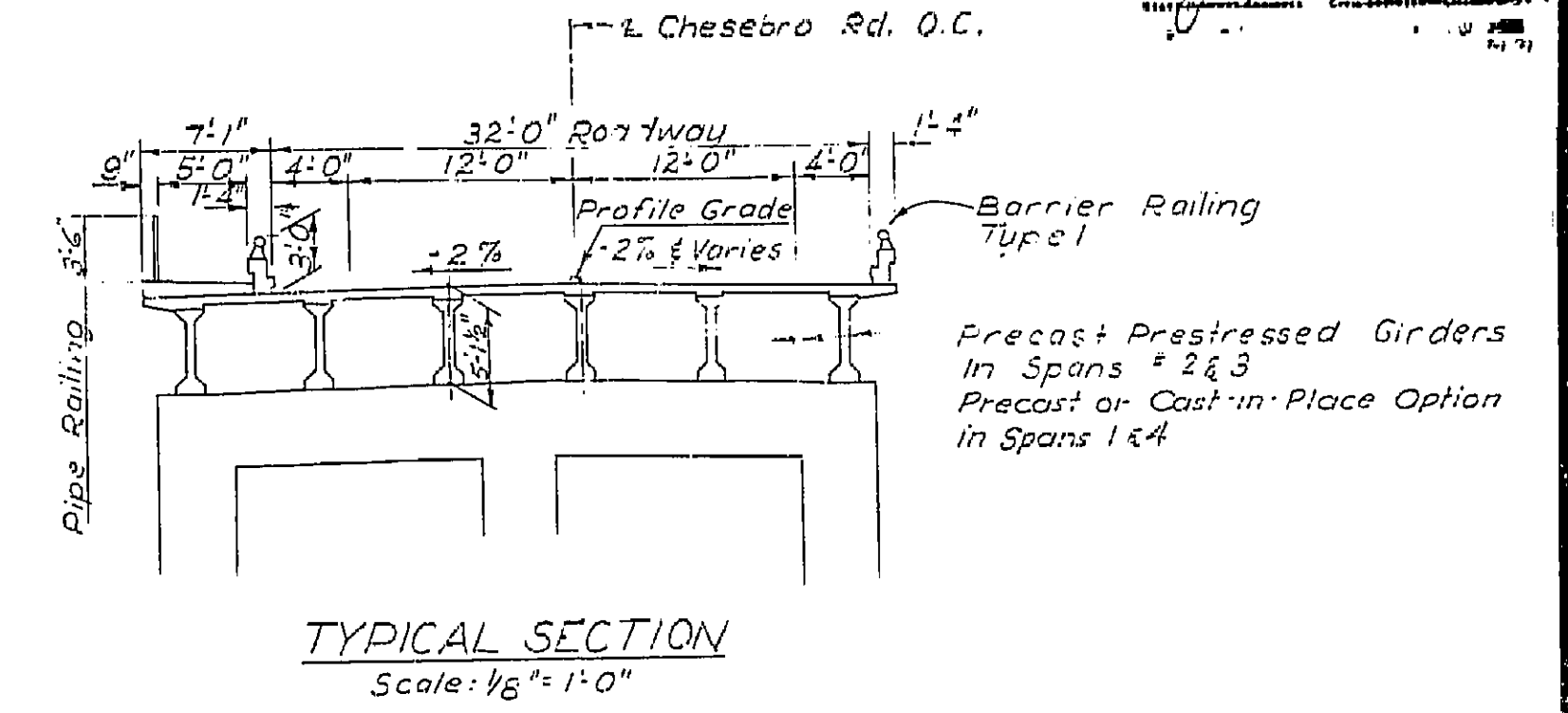
101  
 J. M. Maloney  
 CIVIL ENGINEER  
 DATE: 10/22/63  
 PROJECT: 63-7V13C58



Concrete  
 Cast-in-Drilled Hole Piles  
 location Specified Tip Elev.  
 Abut. #1 888.0  
 Bent #2 885.0  
 Bent #3 882.0  
 Bent #4 888.0  
 Abut. #5 888.0

ELEVATION  
 Scale: 1" = 20'-0"

① = Point Bridge No. & Date  
 ② = Point Chesebro Rd. O.C.  
 ⊙ Indicates point of minimum vertical clearance.

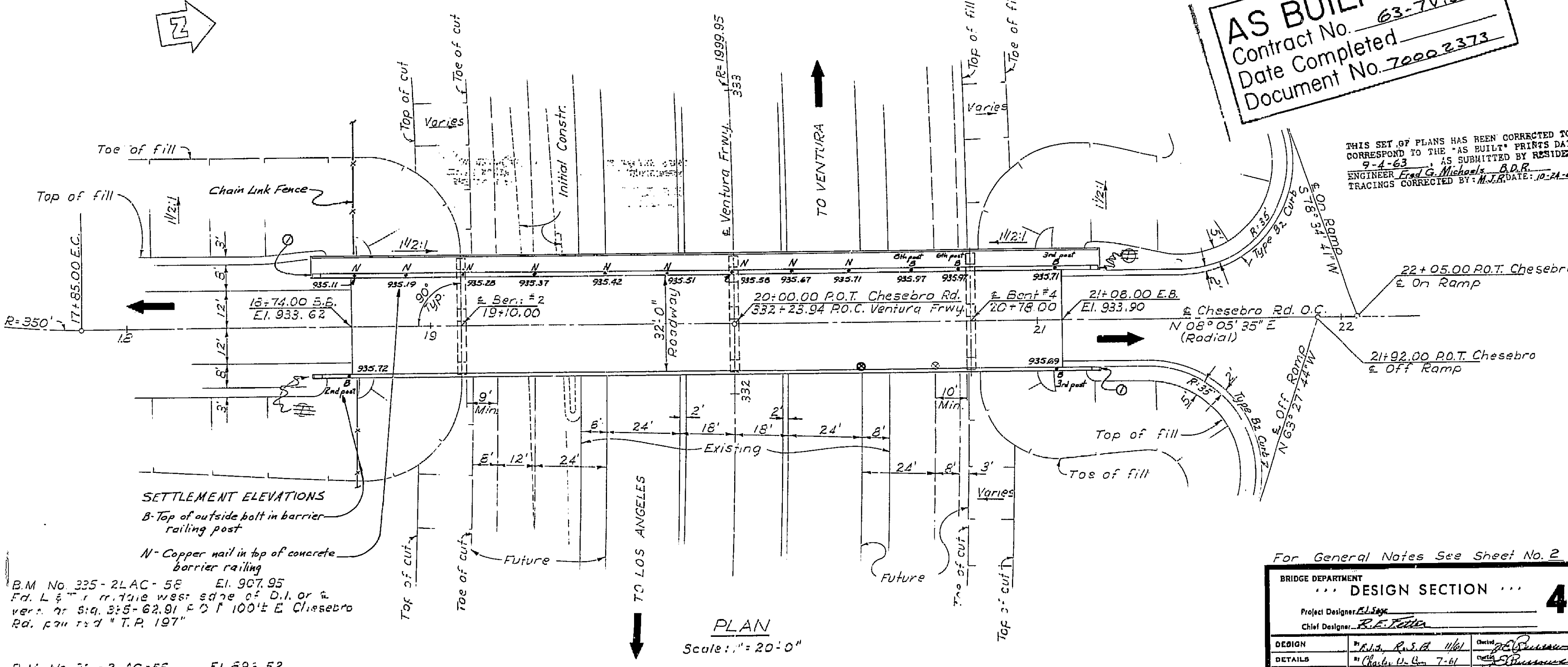


TYPICAL SECTION  
 Scale: 1/8" = 1'-0"

**AS BUILT PLANS**  
 Contract No. 63-7V13C58  
 Date Completed  
 Document No. 7000 2373

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Grid Grades
3	Foundation Plan
4	Abutment Details
5	Bent Details
6	Typical Sections
7	Girder Layout
8	Girder Details Spans 1 & 4 - Precast Alternative
9	Girder Details Spans 1 & 4 - Cast-in-Place Alternative
10	Girder Details Spans 2 & 3
11	Diaphragm Details
12	Barrier Railing Sheet 1
13	Barrier Railing Sheet 2
14	Pipe Railing
15	Log of Test Borings



PLAN  
 Scale: 1" = 20'-0"

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	310 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	180 C.Y.
16" C.I.D.H. CONCRETE PILING	1,210 L.F.
FURNISHING PC/PS CONCRETE GIRDERS (90'-0")	6 EA.
FURNISHING PC/PS CONCRETE GIRDERS (78'-0")	6 EA.
ERECTING PC/PS CONCRETE GIRDERS	12 EA.
*CLASS "A" CONCRETE (BRIDGE)	540 C.Y.
RUBBER WATERSTOPS	128 L.F.
JOINT SEALER	128 L.F.
*BAR REINFORCING STEEL (BRIDGE)	109,000 LBS.
MISCELLANEOUS METAL (BRIDGE)	400 LBS.
BARRIER RAILING (TYPE 1)	528 L.F.
PIPE BRIDGE RAILING (3'-6")	262 L.F.

\*FINAL QUANTITIES  
 Contract # 63-7V13C58  
 Note: Route Change (VII-LA-5)

For General Notes See Sheet No. 2

BRIDGE DEPARTMENT		DESIGN SECTION		4	
Project Designer: E. L. Lipp					
Chief Designer: R. J. Lipp					
DESIGN	R. J. Lipp	Checked	R. J. Lipp		
DETAILS	R. J. Lipp	Checked	R. J. Lipp		
QUANTITIES	R. J. Lipp	Checked	R. J. Lipp		
SPECIFICATIONS	R. J. Lipp	Checked	R. J. Lipp		
Approval Recommended by: R. J. Lipp					

VENTURA FREEWAY

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

**CHESEBRO ROAD OVERCROSSING**  
 LOCATED ABOUT 400 FEET EAST OF THE INTERSECTION OF  
 EXISTING CHESEBRO RD. AND VENTURA FWY IN  
 LOS ANGELES COUNTY

**GENERAL PLAN**

SCALE AS NOTED BRIDGE 53-1878 FILE DRAWING C-531678-1

PREL. DRAWING NO. P-531678-1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE: 11/22 SIGNATURE: TITLE:



Reinf. extended into deck.  
Change note referring to reinforcing bars under gap, etc.  
Added entrance under deck.  
Removed curb & rail to conform with Type 5 railing.  
5-17-61

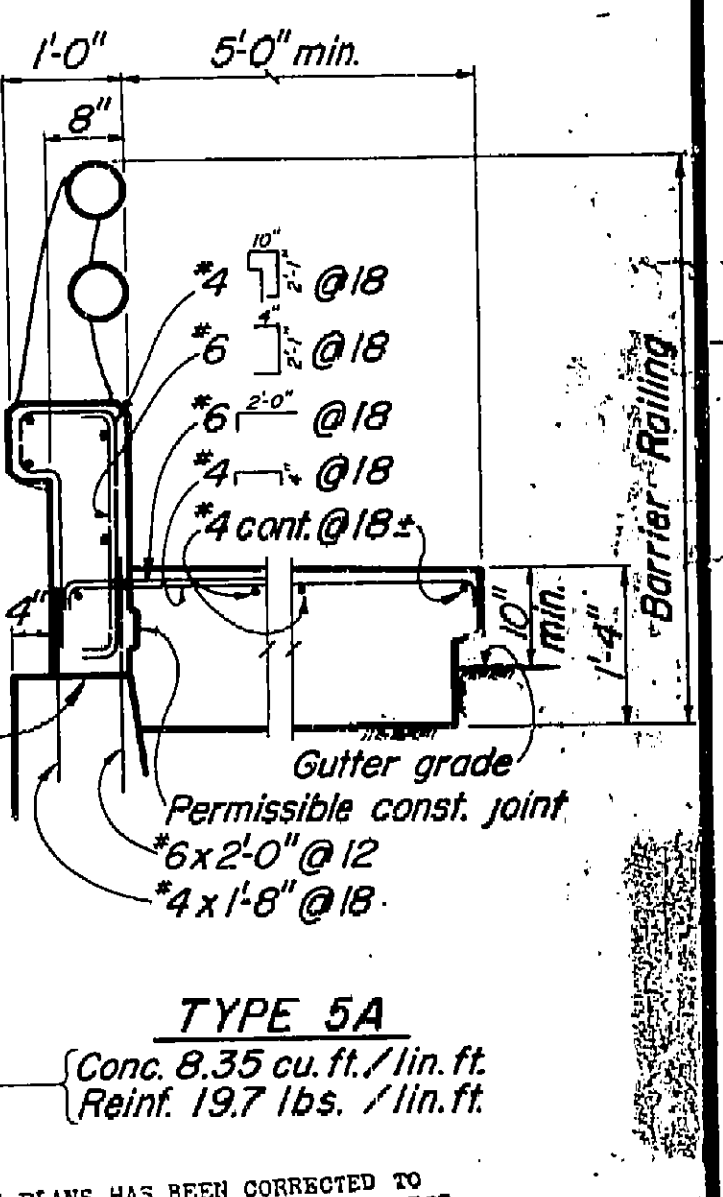
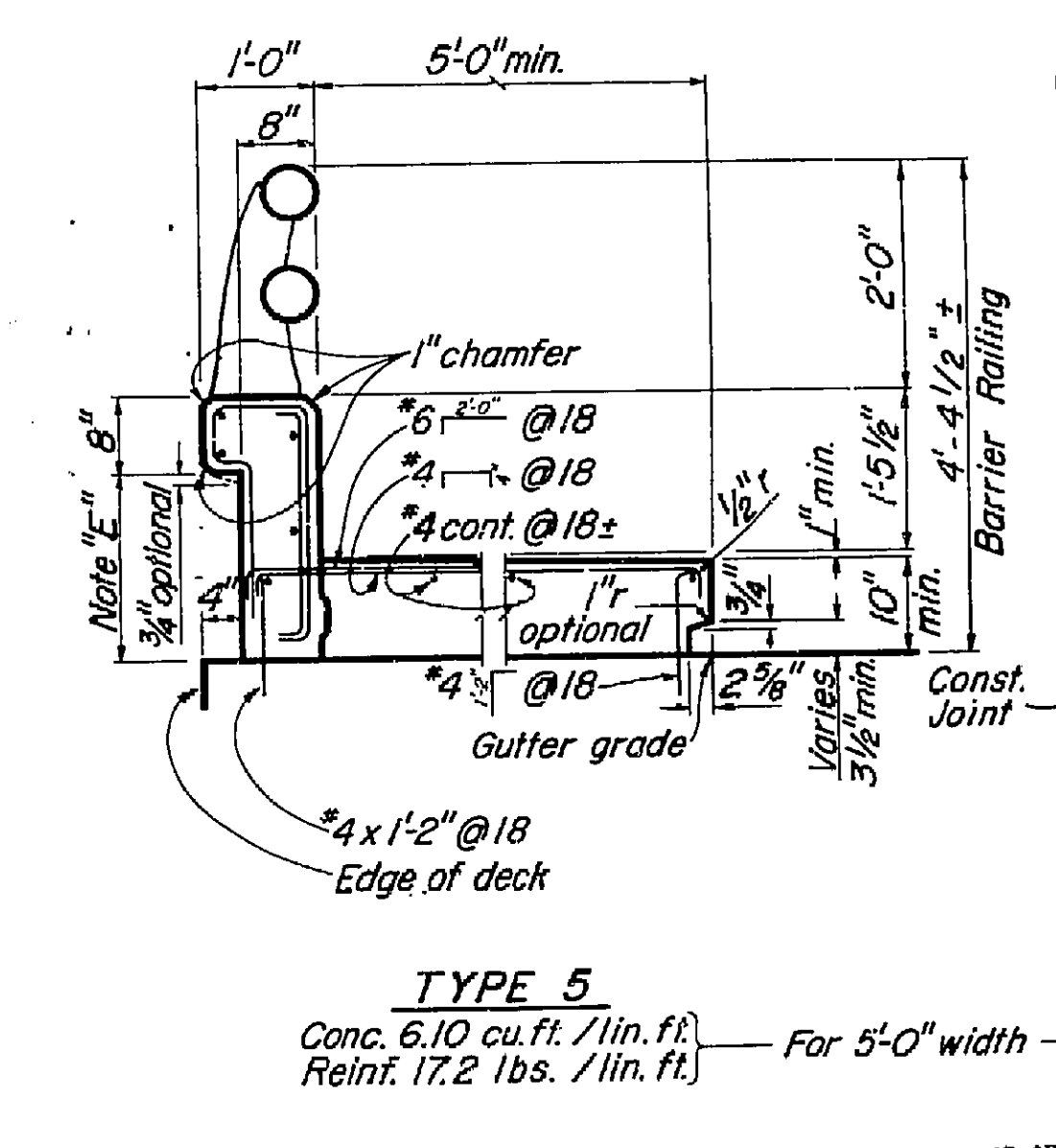
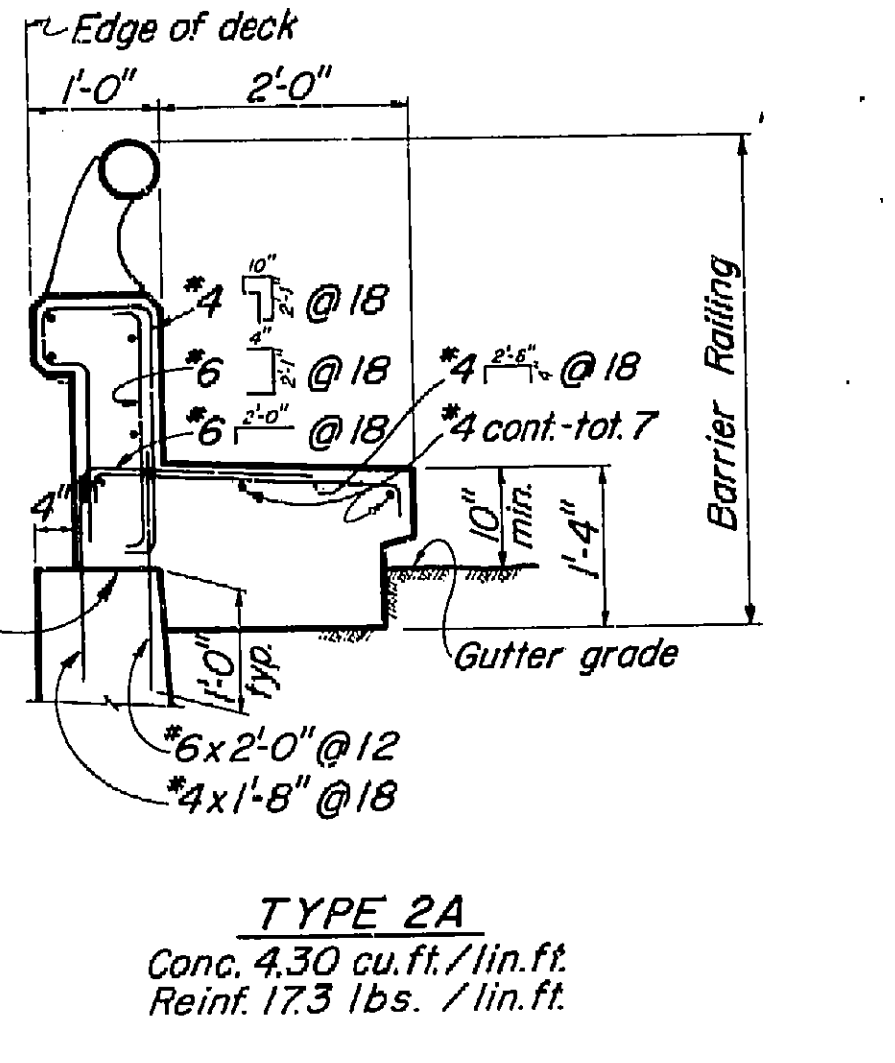
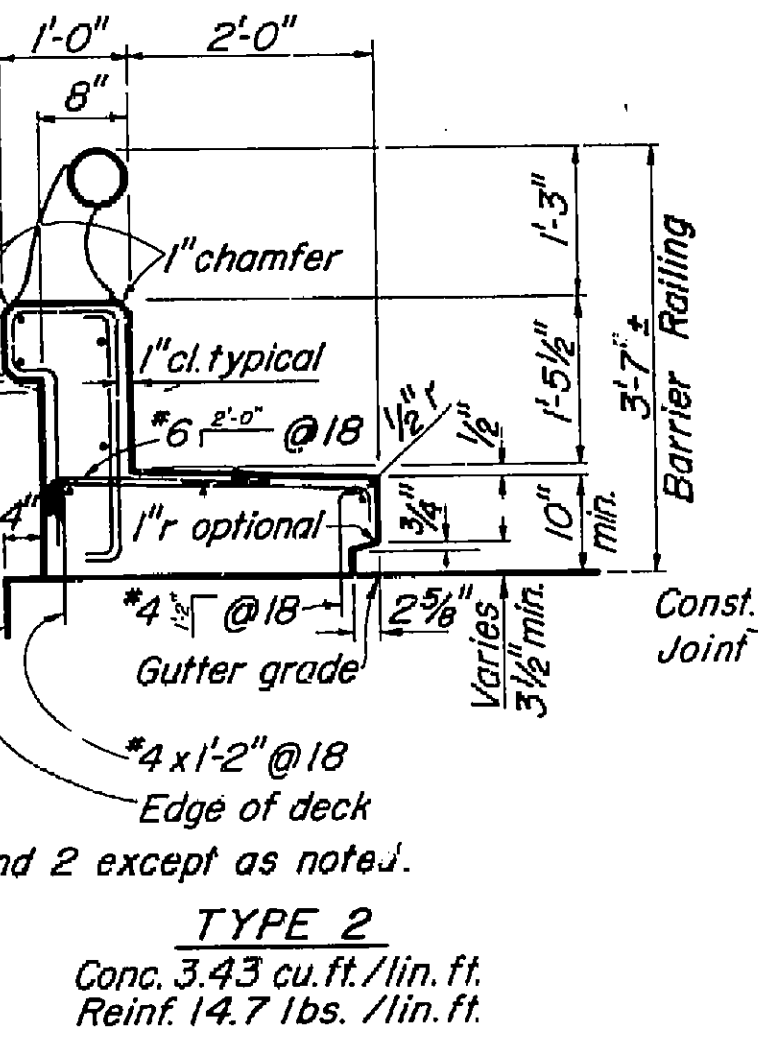
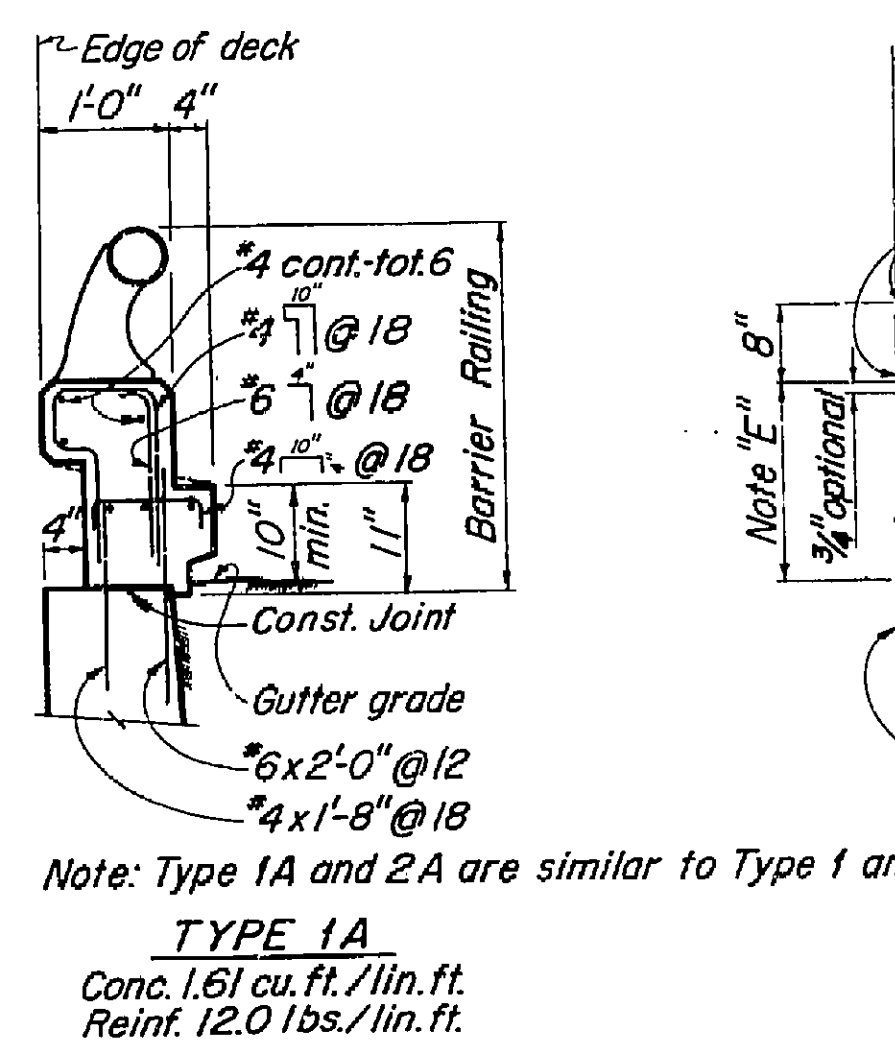
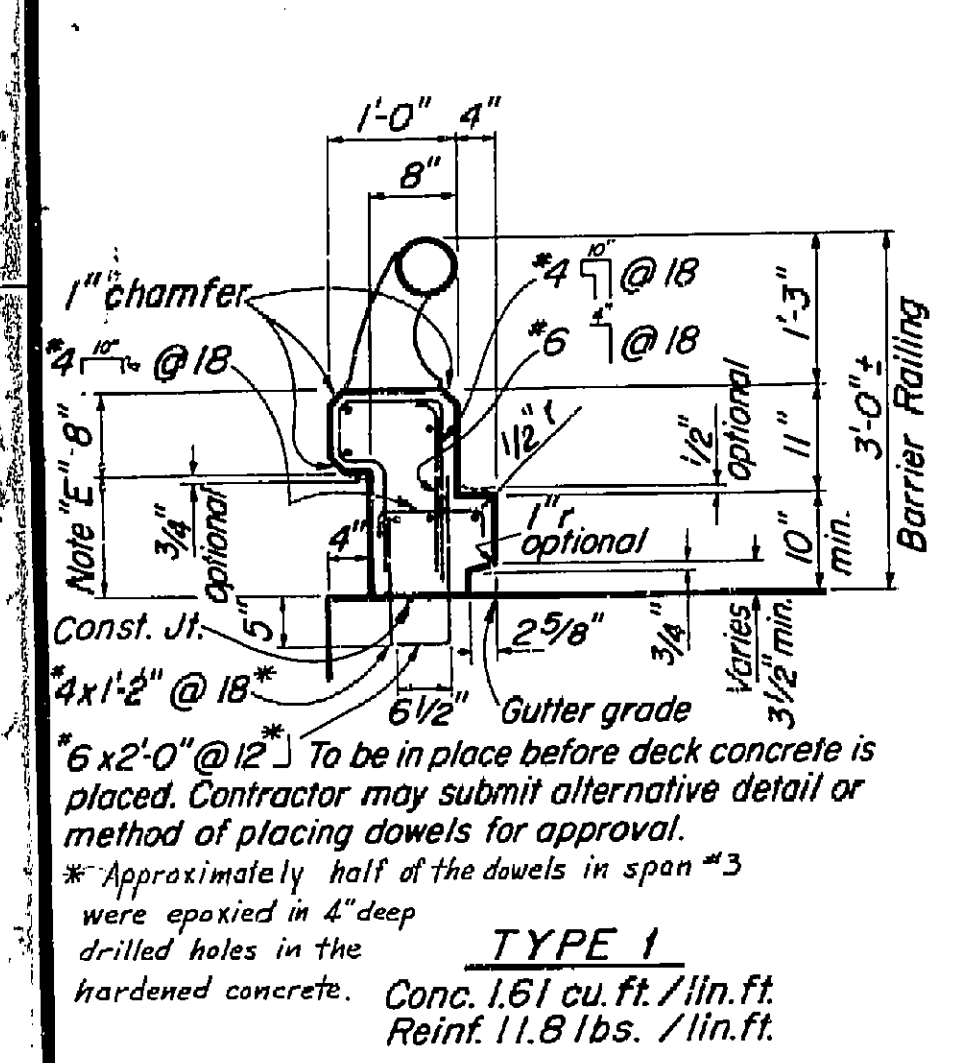
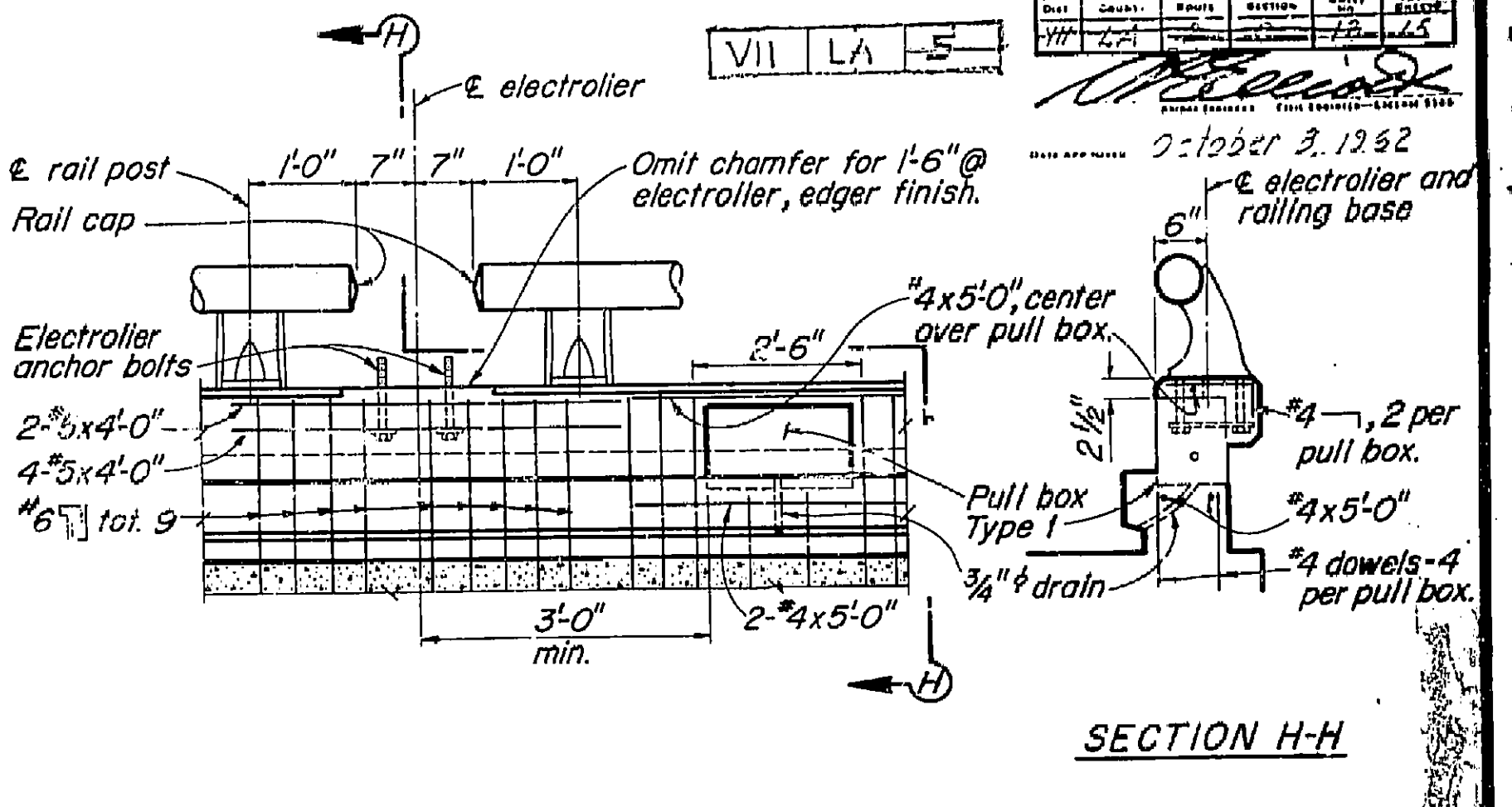
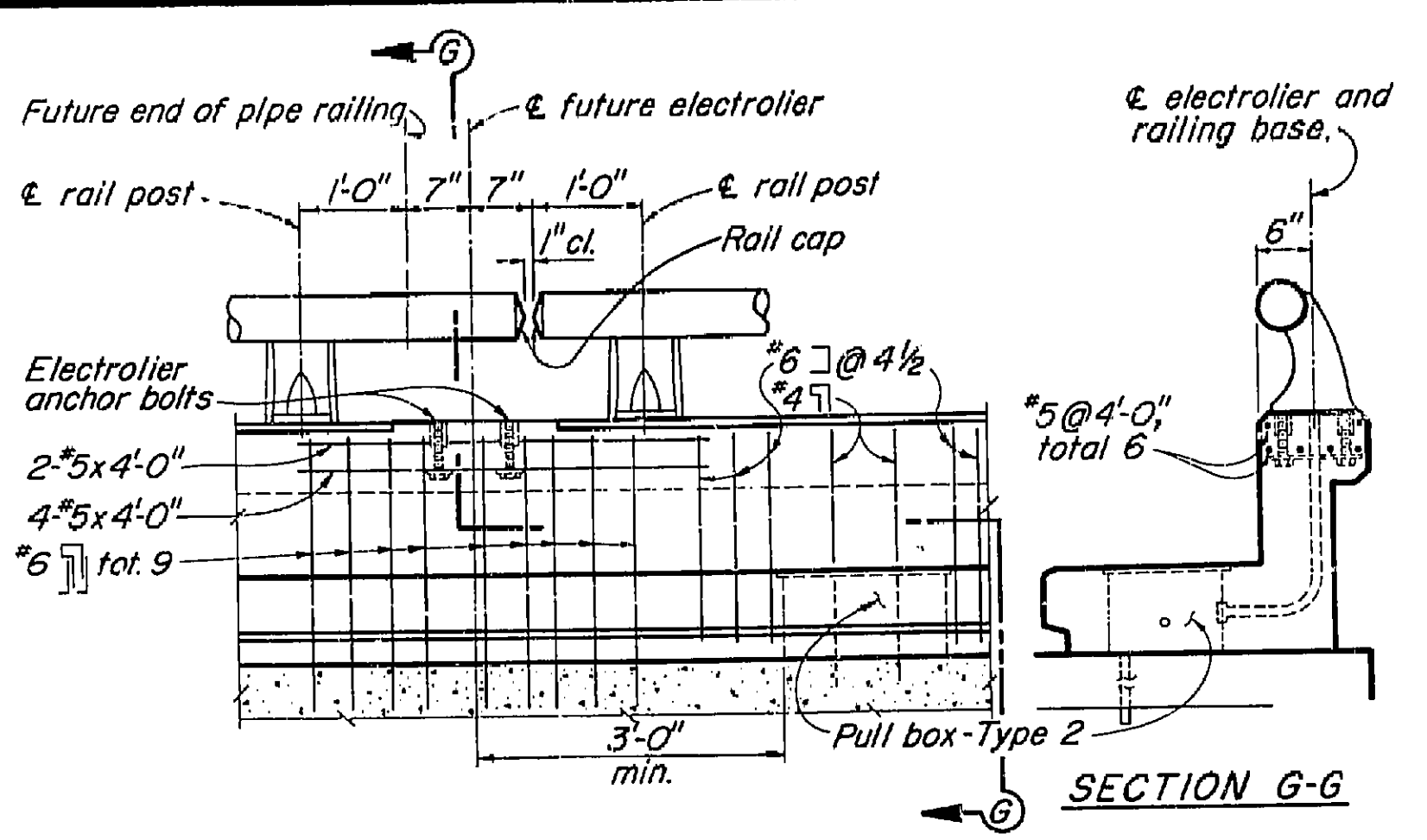
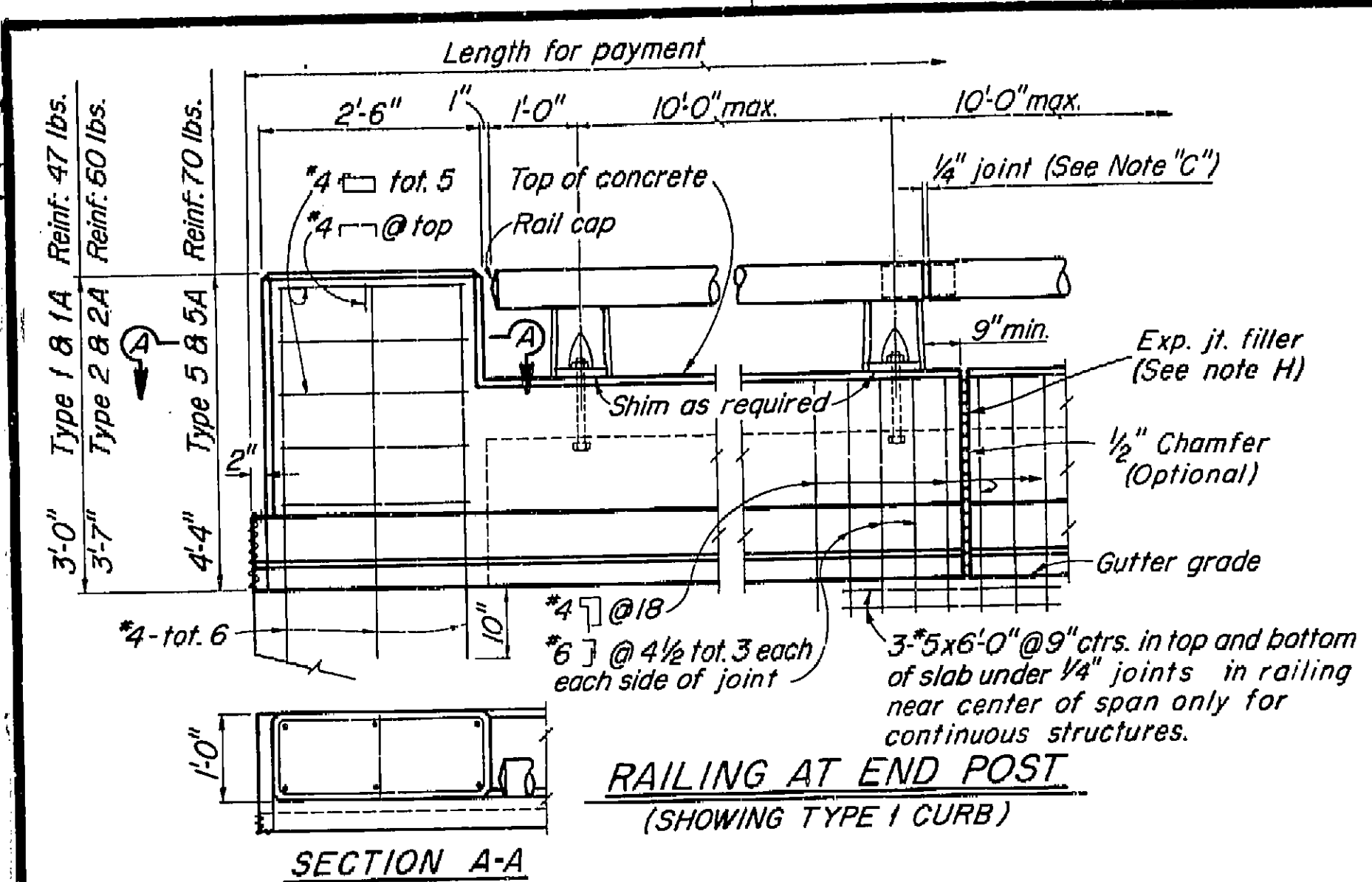
Changed dimension on Type 5 Railing 7-7-61

Removed Keys & added Const. Jt. 0-16-61 J.T.

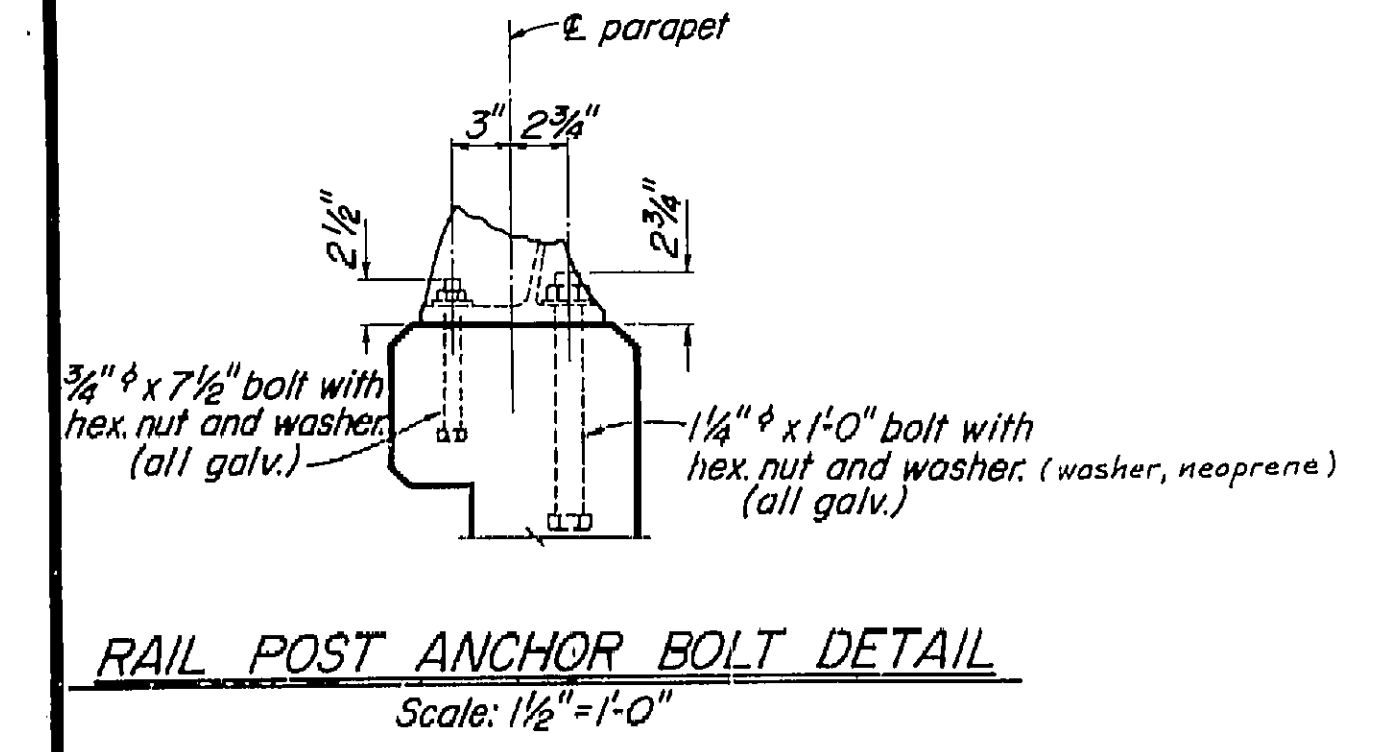
Used sleeve to Ring, end post. Changed sp. Jt. to Joints. Notes C and Railing End Post. F.H.S. 2-1-62

Used Note H 3-2-62 F.H.S.

Used Note in Billing at End Post 4-13-62 F.H.S.



**TYPICAL CURB AND RAIL SECTIONS**



**AS BUILT PLANS**  
Contract No. 63-7V13CS8  
Date Completed \_\_\_\_\_  
Document No. 7220 2373

- Note: A. Railing shall conform to horizontal and vertical alignment.  
B. Posts shall be normal to railing.  
C. Curb and wall joints to be located at all deck joints, at piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints + 1/4".  
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.  
E. Dimension will vary with cross-slope of deck.  
F. Walls are to be backfilled before railing is placed.

- G. Clearance to reinforcing steel in curb and railing to be 1" Longitudinal reinforcement to stop at all joints in railing.

- H. As an alternative an open joint may be used in Type 1 and Type 2 railings.

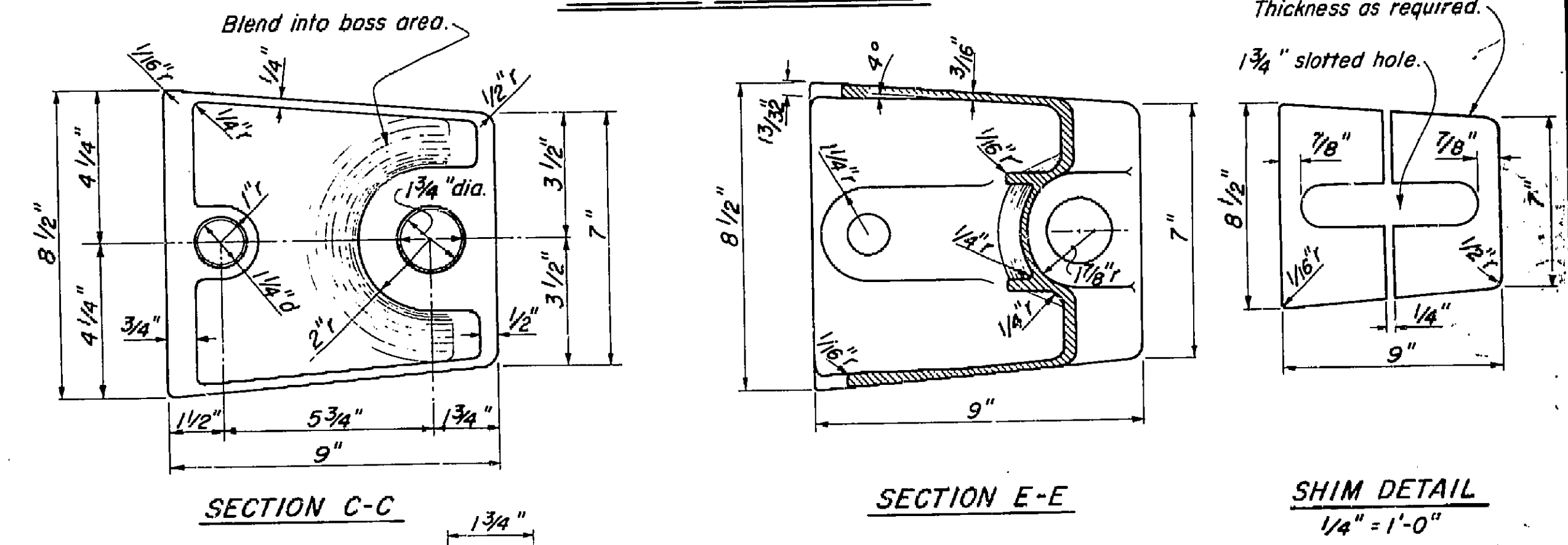
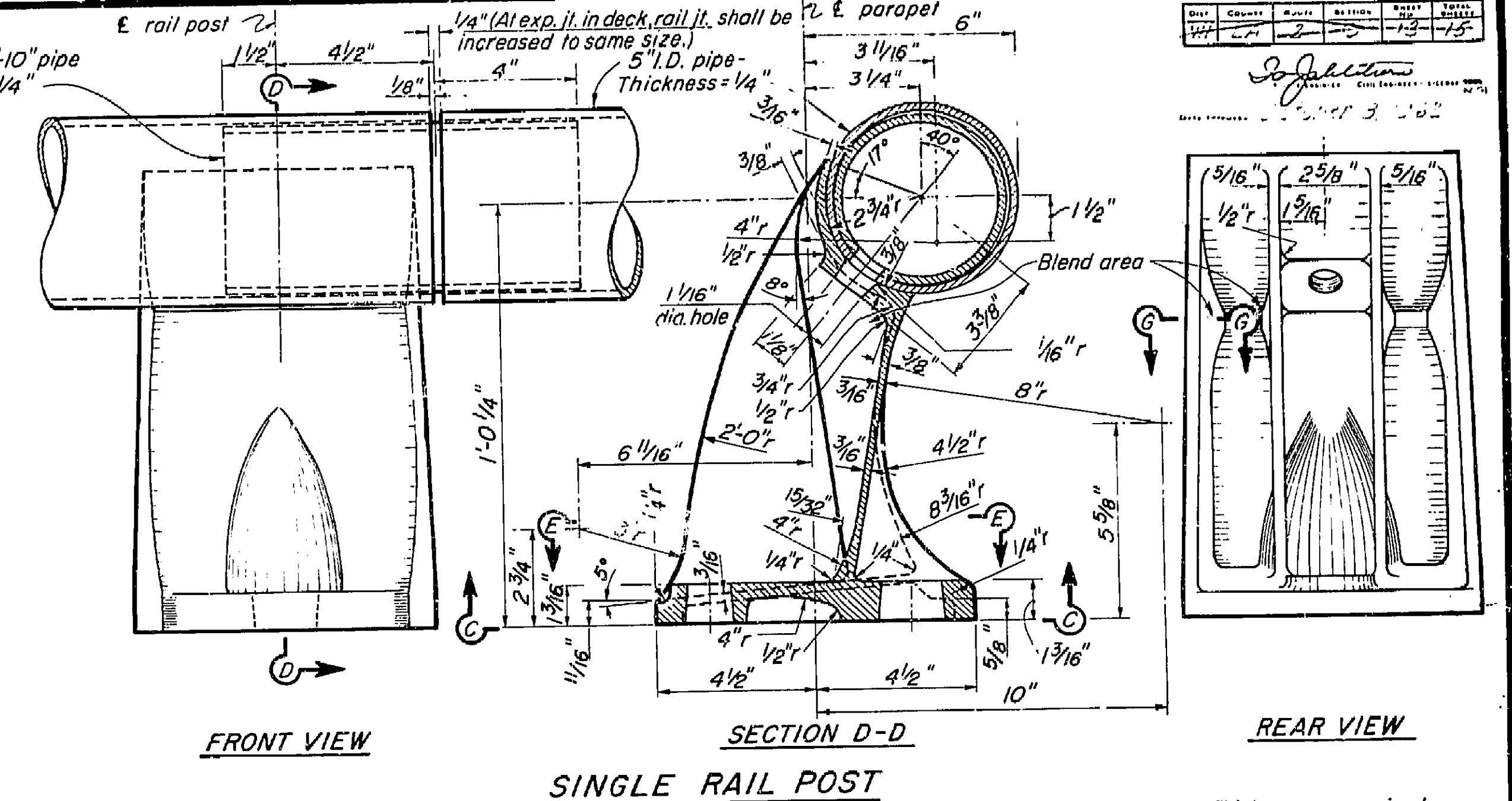
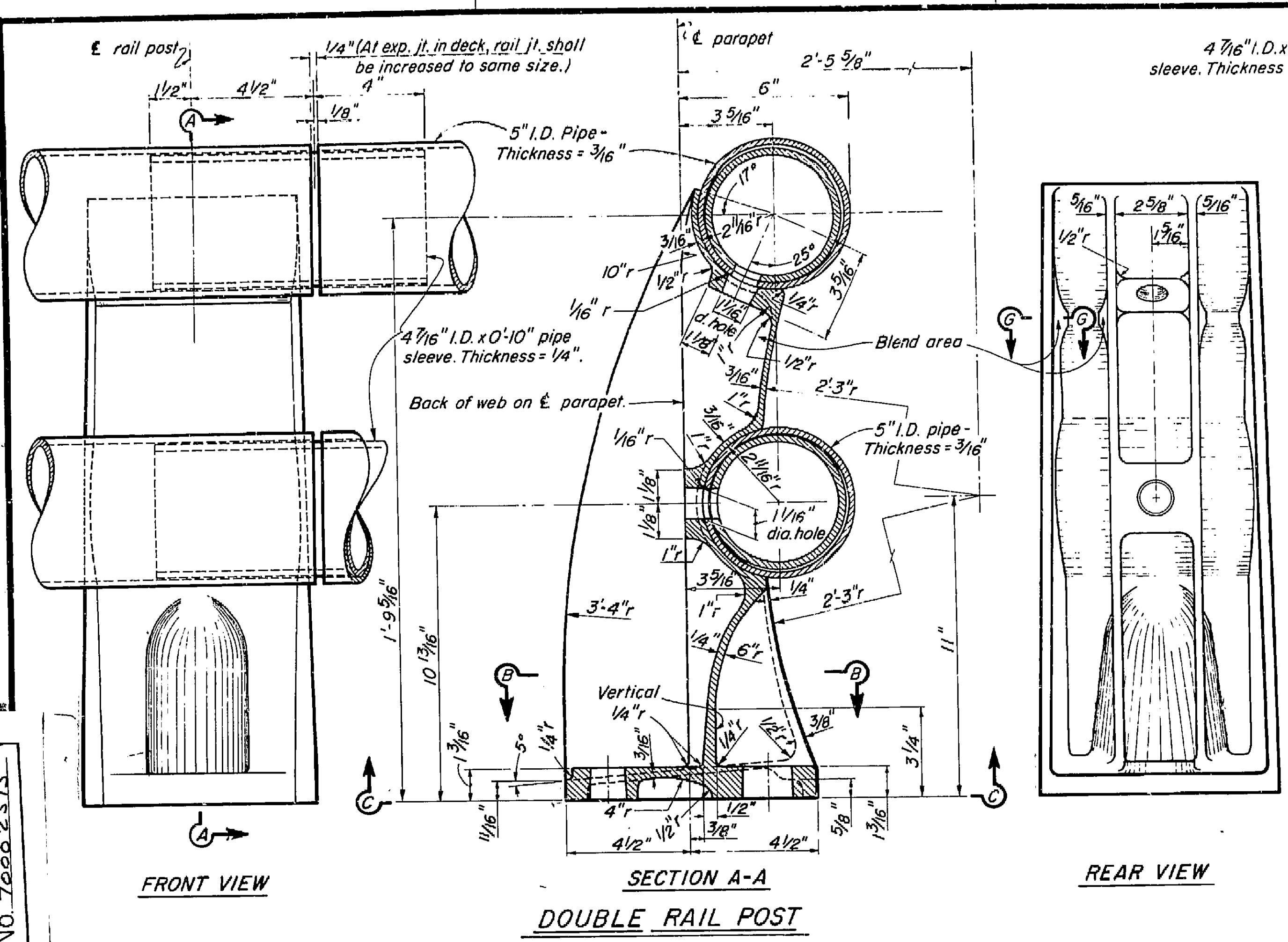
BRIDGE DEPARTMENT DESIGN SECTION		4/62	
SUPERVISOR		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
DESIGN		CHESBRO ROAD OVERCROSSING	
DETAILS		BARRIER RAILING SHEET 1	
QUANTITIES		Except as noted SCALE 3/4" = 1'-0"	
DRAWN		BRIDGE 53-1678	
CHECKED		FILE XS-9-63	
DATE		DRAWING C-631678-12	
DISCARD PRINTS BEARING NUMBER		PREL. DRAWING NO. P-531673	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_

7	LA	5	7	CALIF.	13	15
---	----	---	---	--------	----	----

1. Added 1/8" on section A-A (O.D. of 2 1/2" long dim. Rail connection detail. R.M.)  
 winged Dim. in Spec. E.F. 1/2" 1/8" removed from Spec. O.D. 12-2-61



- Notes:
- At the option of the contractor, material for the railing shall be one of the following:
    - Aluminum pipe rail and cast aluminum post.
    - Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D. Rail post dimensions shall be revised as necessary to fit the steel pipe.
  - Shims are to be of asbestos sheet packing.
  - For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

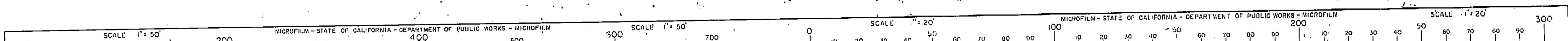
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-18-62 AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, B.O.P. REVISIONS CORRECTED BY J.R. [unclear] 10-16-63

AS BUILT PLANS  
 Contract No. 63-7V13C58  
 Date Completed  
 Document No. 70002373

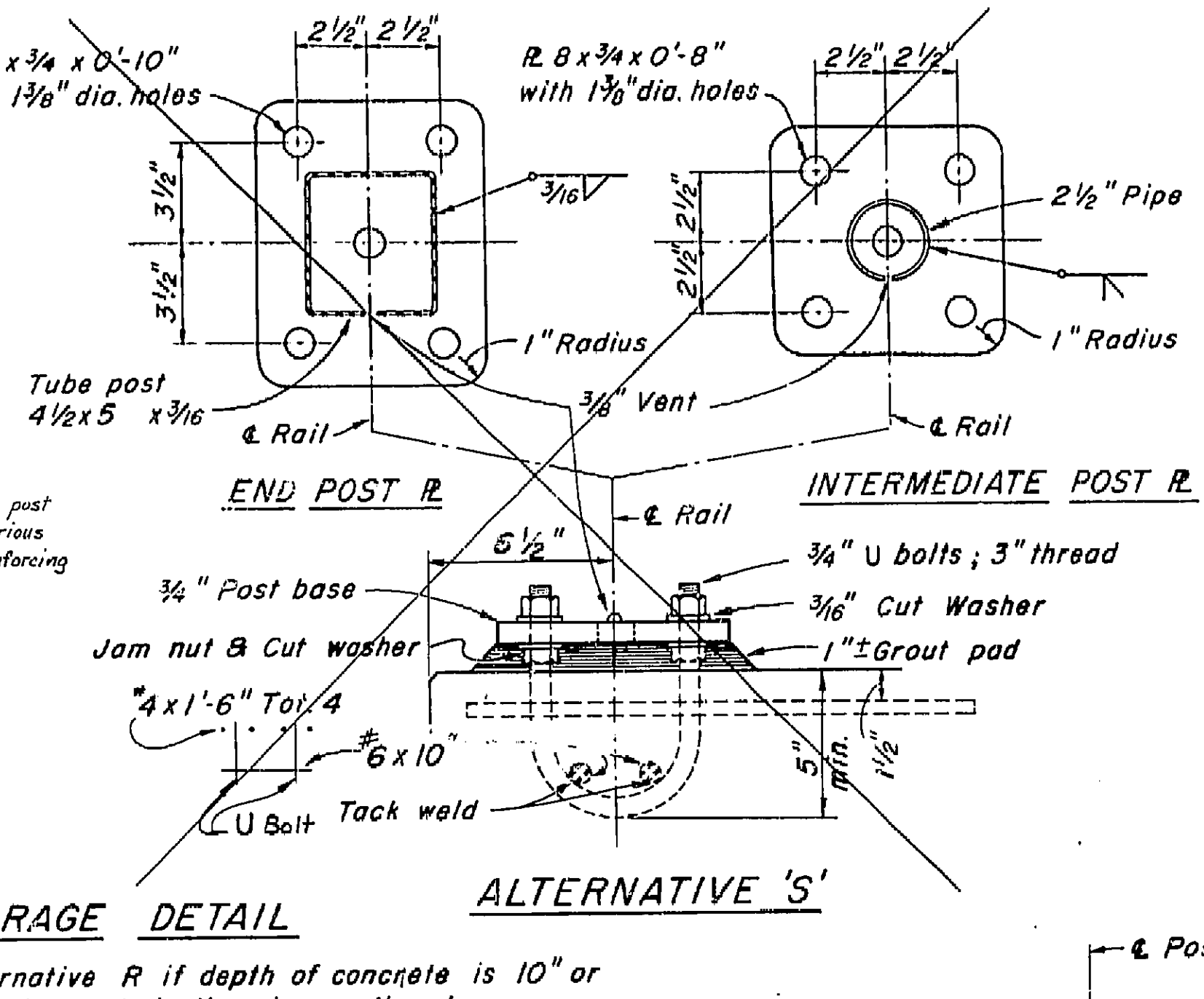
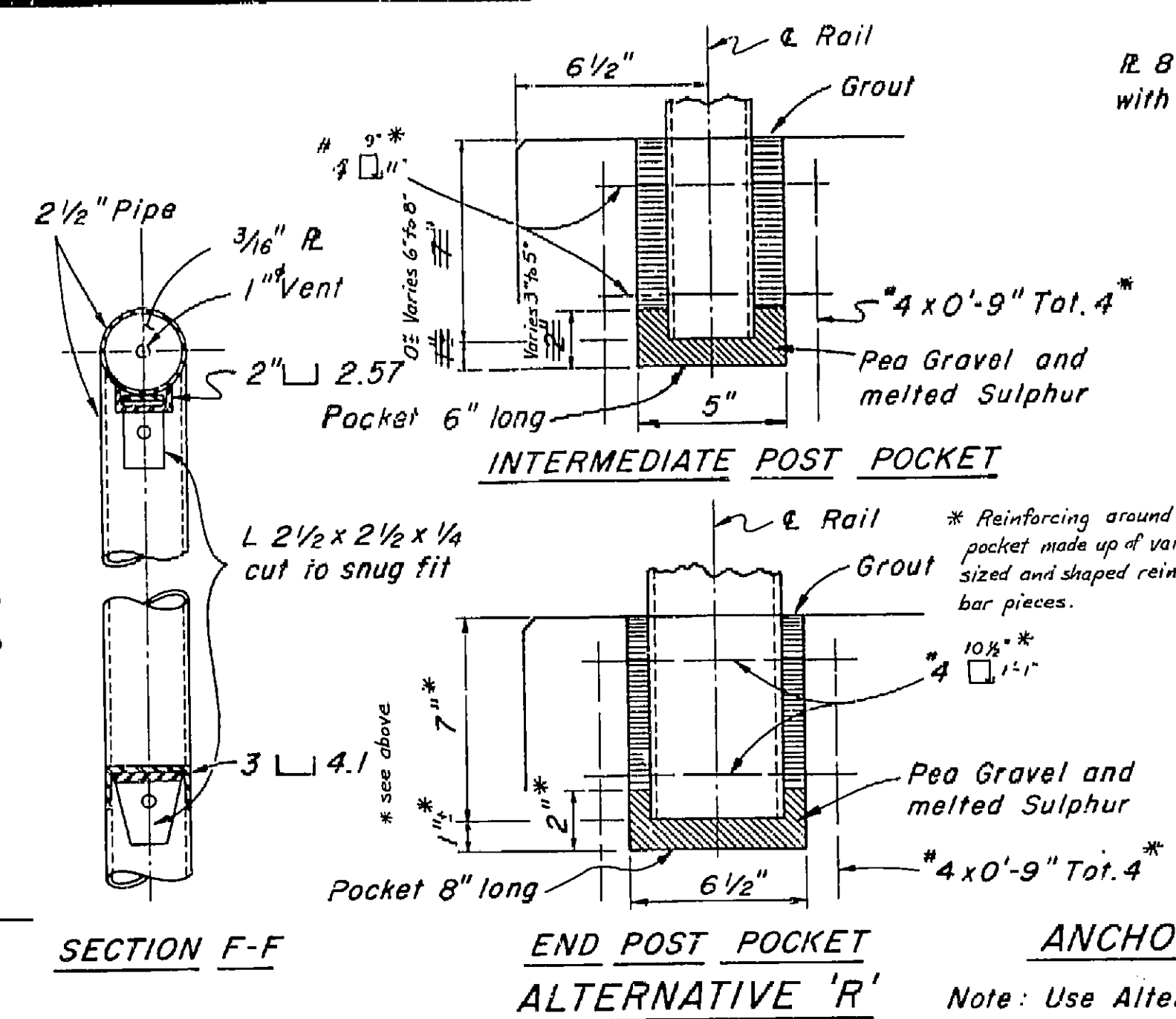
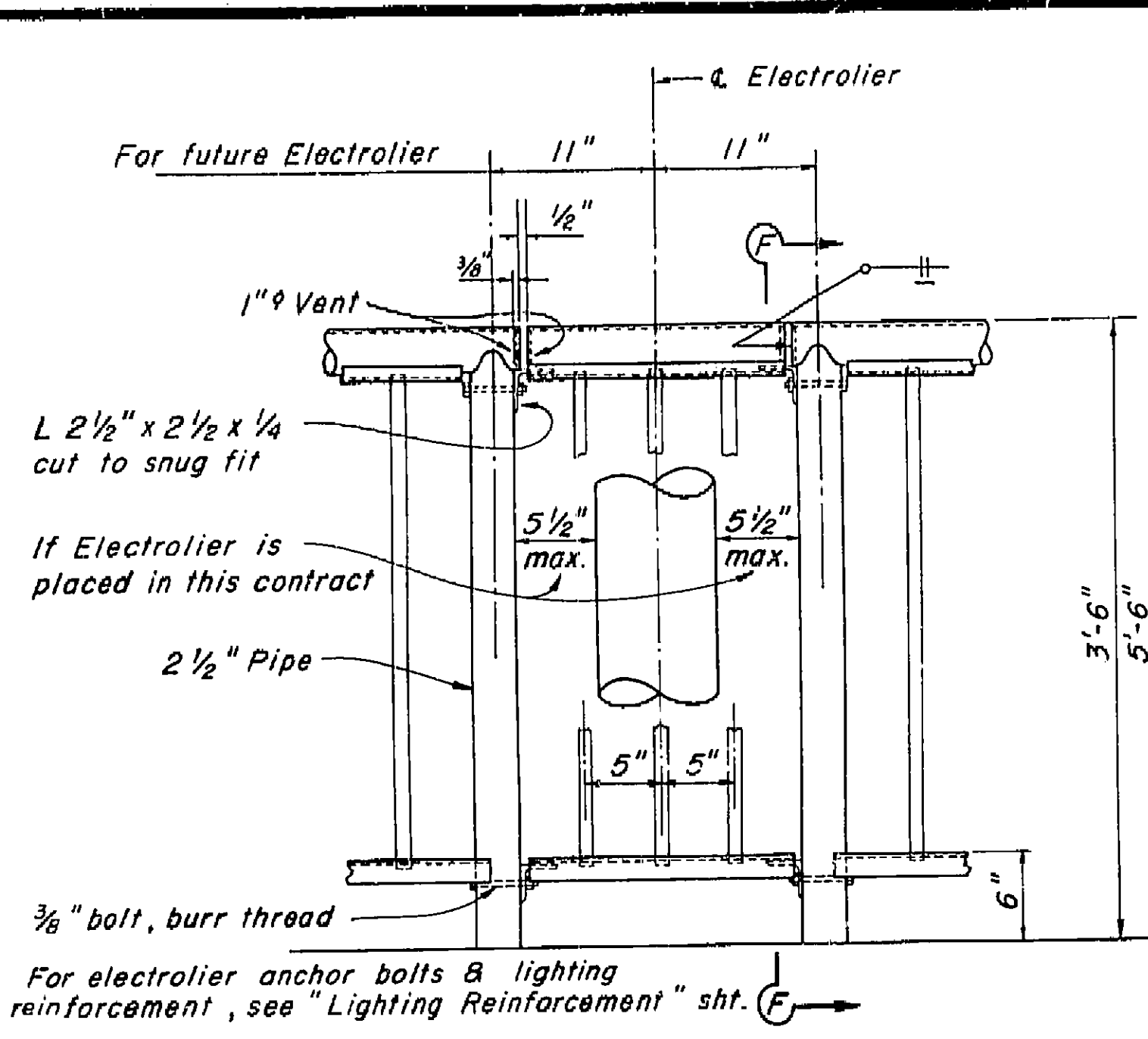
STANDARD DRAWING  
 CHECKED BY  
 DESIGNED BY  
 DRAWN BY  
 DATE

BRIDGE DEPARTMENT DESIGN SECTION	12/61	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
Section Supervisor DESIGN DETAILS QUANTITIES	CHESEBRO ROAD OVERCROSSING BARRIER RAILING SHEET 2	
EXACT AS NOTED SCALE 3/8" = 1"	BRIDGE 53-1878	FILE XS-9-71 DRAWING C-531678-13
PREL. DRAWING NO. P-531678		763

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_

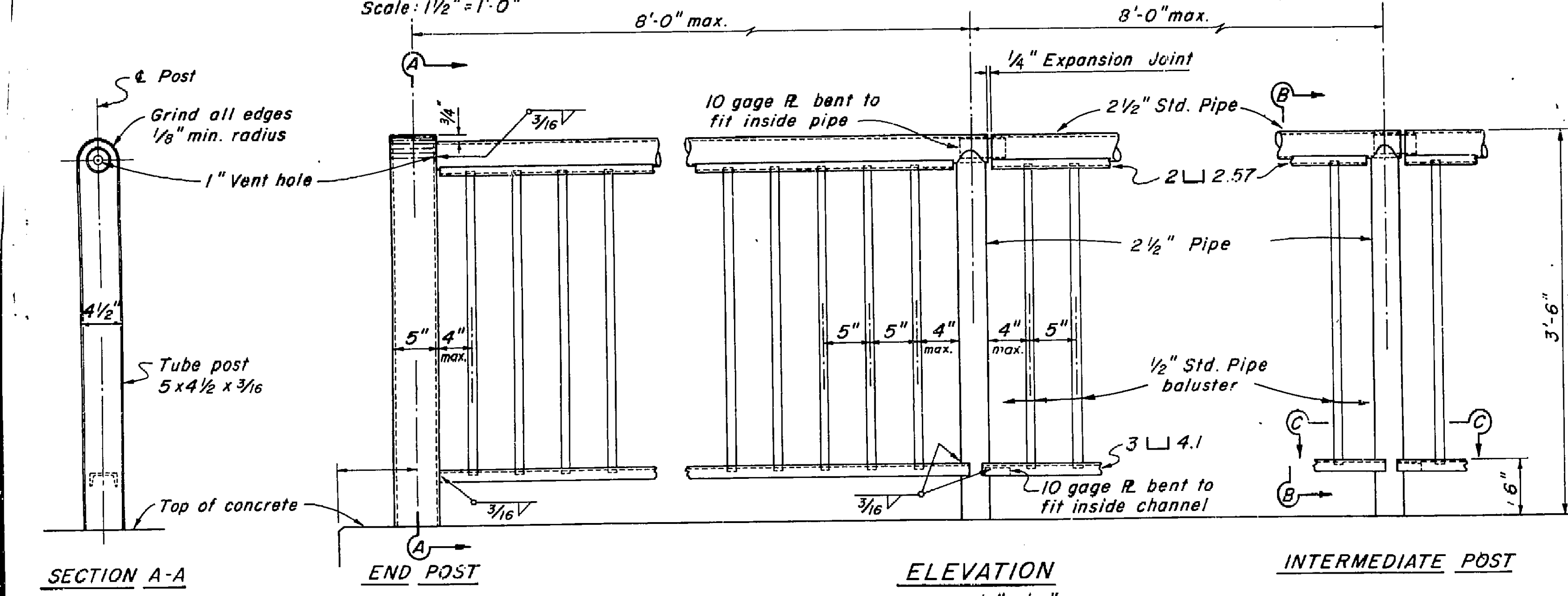


Rev. 5-12-60 JTD  
 railing type removed  
 v. Dry sand re-  
 oved. Grout extend  
 10  
 KK  
 \*native R-changed  
 bar length, #1,  
 2  
 RW.

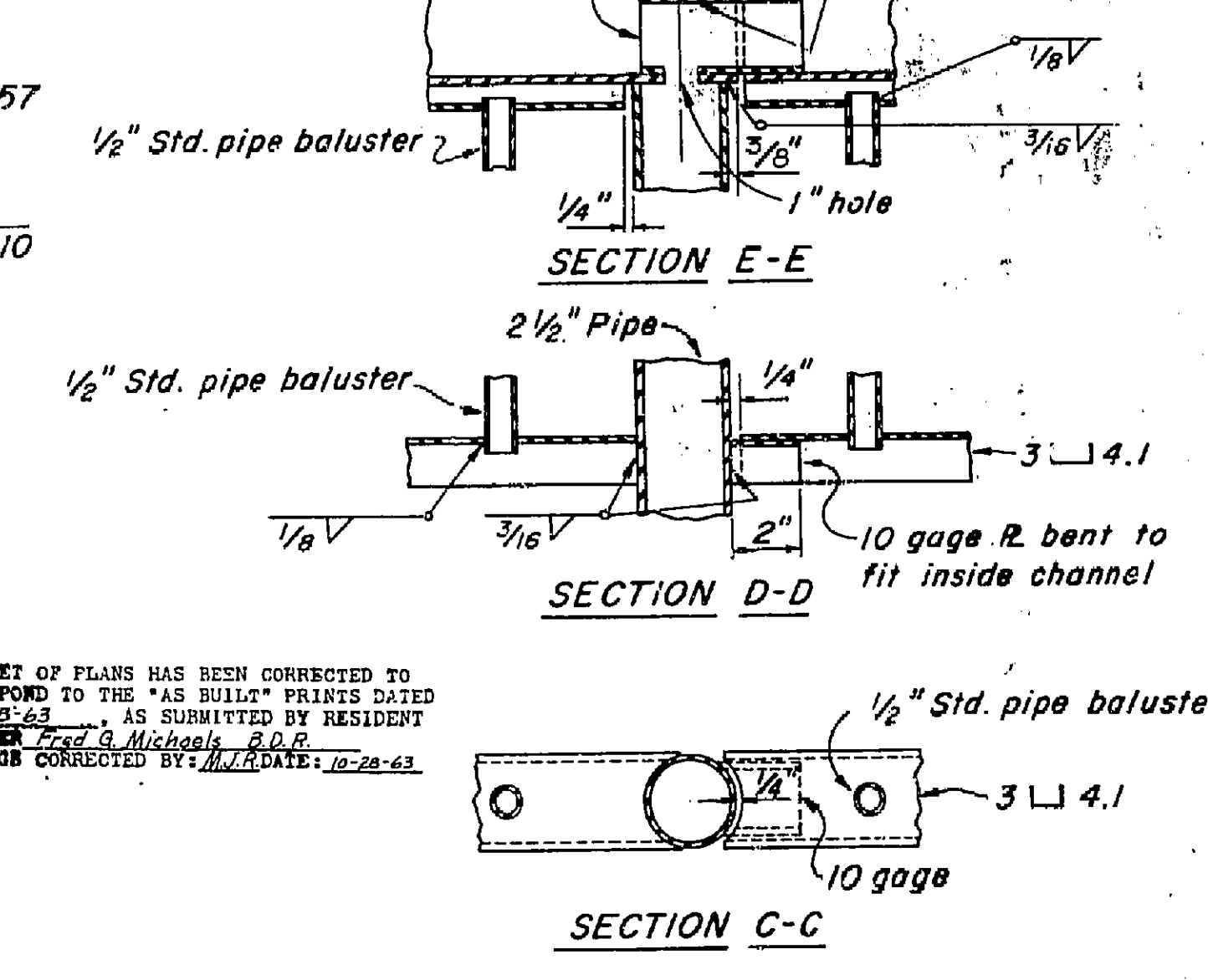


**AS BUILT PLANS**  
 Contract No. 63-7V13C58  
 Date Completed  
 Document No. 7000-2373

**RAILING CLOSURE DETAIL 'D'**  
 Scale: 1/2" = 1'-0"



Sleeve formed of 10 gage R, bent, welded, and ground smooth for sliding fit inside of rail.

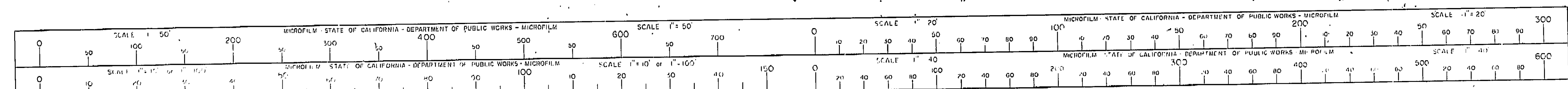


Notes: Space posts to clear expansion joints by 9" min. to c. of post.  
 Rail joints at expansion joints in the deck shall provide same allowance for movement with corresponding increase in length of sleeve.  
 Railing on bridge wingwalls to be placed after walls are backfilled.  
**CURVED ALIGNMENT**  
 50' Radius or greater = 8' max. post spacing with straight panels.  
 30'-50' Radius = 8' max. post spacing with curved panels.  
 30'-50' Radius = 6' max. post spacing with straight panels.  
 Less than 30' = 6' max. post spacing with curved panels.

**3'-6" RAILING** - Intermediate posts to be 2 1/2" Std. pipe.  
**5'-6" RAILING** - Intermediate posts to be 2 1/2" extra strong pipe.  
 Reinforcing Steel = .06 lbs. per lineal foot.  
 3'-6" Railing = approx. 21 lbs. per lineal foot.  
 5'-6" Railing = approx. 28 lbs. per lineal foot.

BRIDGE DEPARTMENT DESIGN SECTION		5/62	
Project Designer: <i>E.L.S.</i>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Chief Designer: <i>R.E.F.</i>		CHESEBRO ROAD OVERCROSSING	
DESIGN	by <i>E.L.S. &amp; R.S.R.</i> Checked <i>J.E.R.</i>	PIPE RAILING	
DETAILS	by <i>J.E.P.</i> Checked <i>J.E.R.</i>	Except as noted SCALE 3/4" = 1'-0"	
QUANTITIES	by <i>R.L.T.</i> Checked <i>J.E.R.</i>	BRIDGE 53-1878	
SPECIFICATIONS	by <i>R.L.T.</i> Checked <i>J.E.R.</i>	FILE	
Approval Recommended by: <i>[Signature]</i>		DRAWING <i>C-531678-14</i>	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECT CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

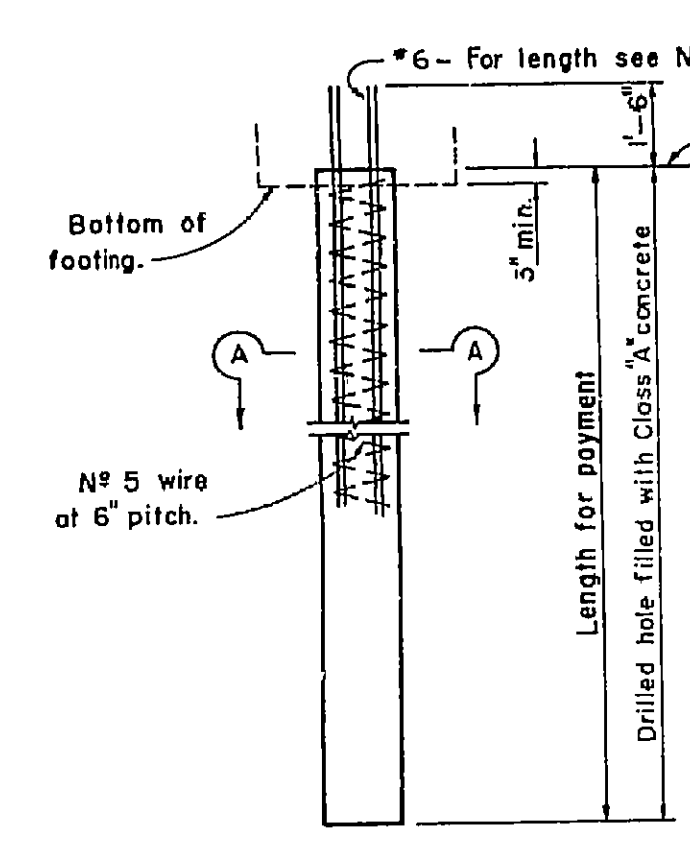
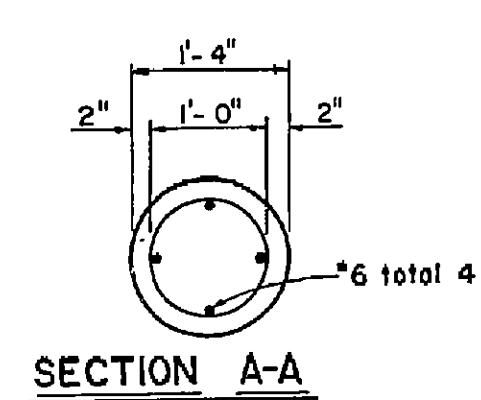
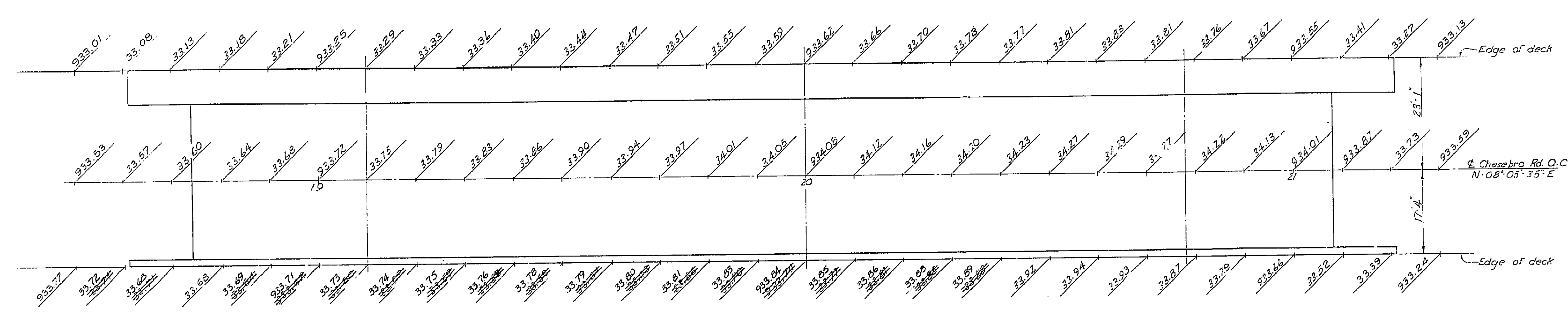




FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		53	57

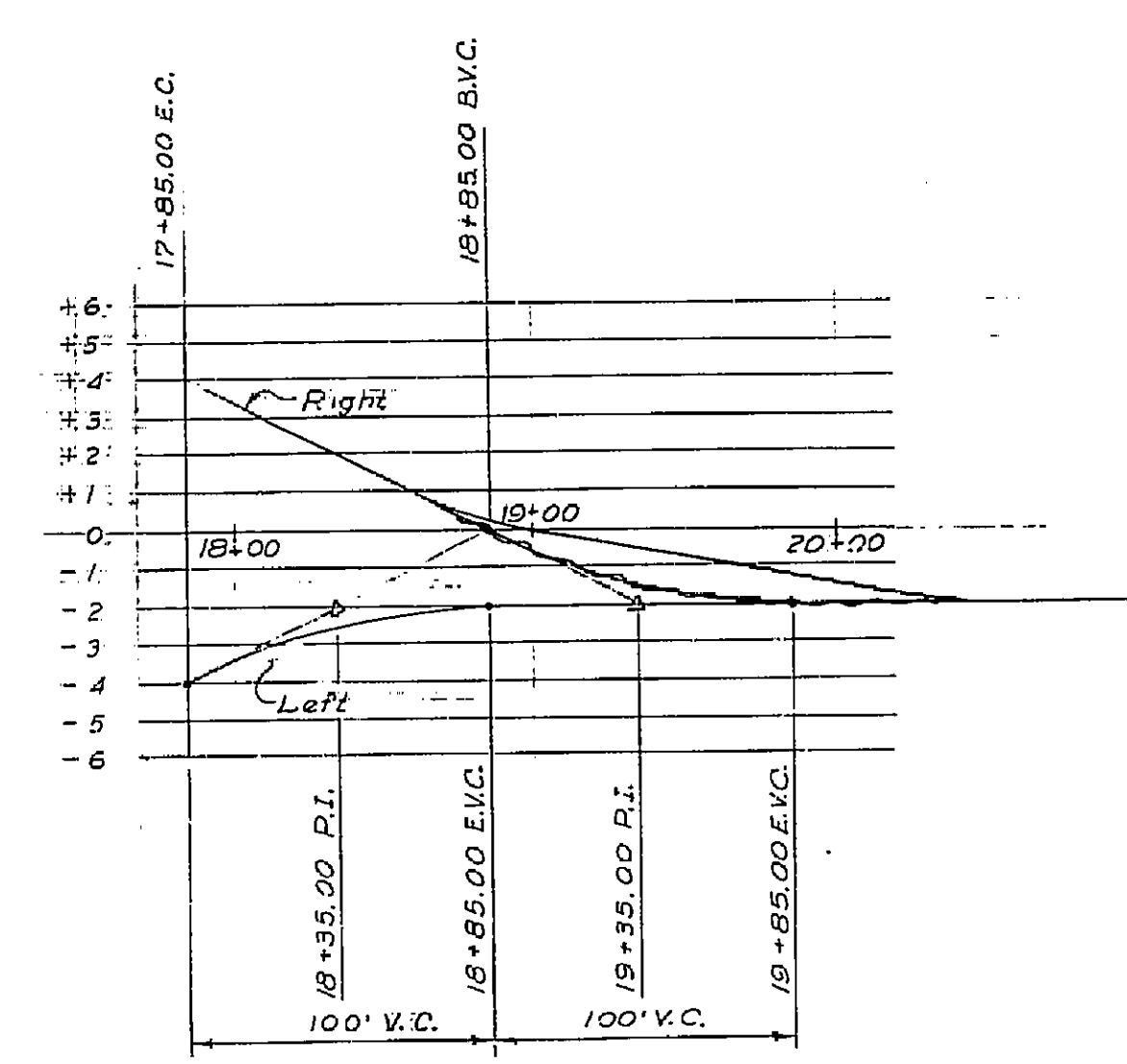
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	LA	8		2	15

DATE APPROVED: *Dr. Robert S. 128*



**Note F**  
The #6 bars shall extend a minimum of 12\"/>

1. Bottom of footing.
2. Top of final ground surface.
3. Top of original ground surface when piles are drilled through fill.



**GENERAL NOTES**

**SPECIFICATIONS:**

DESIGN: A.A.S.H.O. DATED 1957 WITH REVISIONS AND AS SUPPLEMENTED BY BRIDGE PLANNING AND DESIGN MANUAL.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED JANUARY 1960 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44 AND ALTERNATIVE

UNIT STRESSES:

REINFORCED CONCRETE:  $F_s = 20,000$  P.S.I.,  $N = 10$   
 $F_c = 1,200$  P.S.I.

PILE LOADING: 45 TONS TYPE: C.I.D.H.

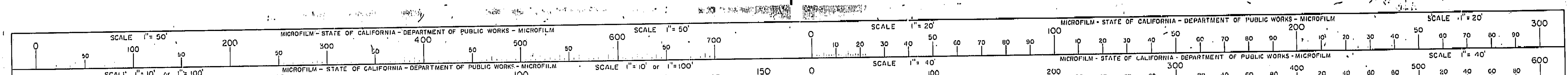
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-16-63, AS SUBMITTED BY RESIDENT ENGINEER *Paul G. Michaels, B.D.R.* TRACINGS CORRECTED BY: *M.T.R.* DATE: *10-24-63*

**AS BUILT PLANS**  
Contract No. 63-7V13CS8  
Date Completed \_\_\_\_\_  
Document No. 70002373

BRIDGE DEPARTMENT DESIGN SECTION <b>4</b>	
Section Supervisor	<i>R. E. Feltner</i>
DESIGN	<i>M. S. R. B. 11-61</i>
DETAILS	<i>M. S. R. B. 11-61</i>
QUANTITIES	<i>M. S. R. B. 11-61</i>

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
<b>CHESEBRO ROAD OVERCROSSING</b>			
<b>GRID GRADES</b>			
SCALE: 1" = 10'	BRIDGE 53-1619	FILE	DRAWING C-531678-2
P-531678-9			

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 11-22 SIGNATURE [Signature] TITLE [Title]



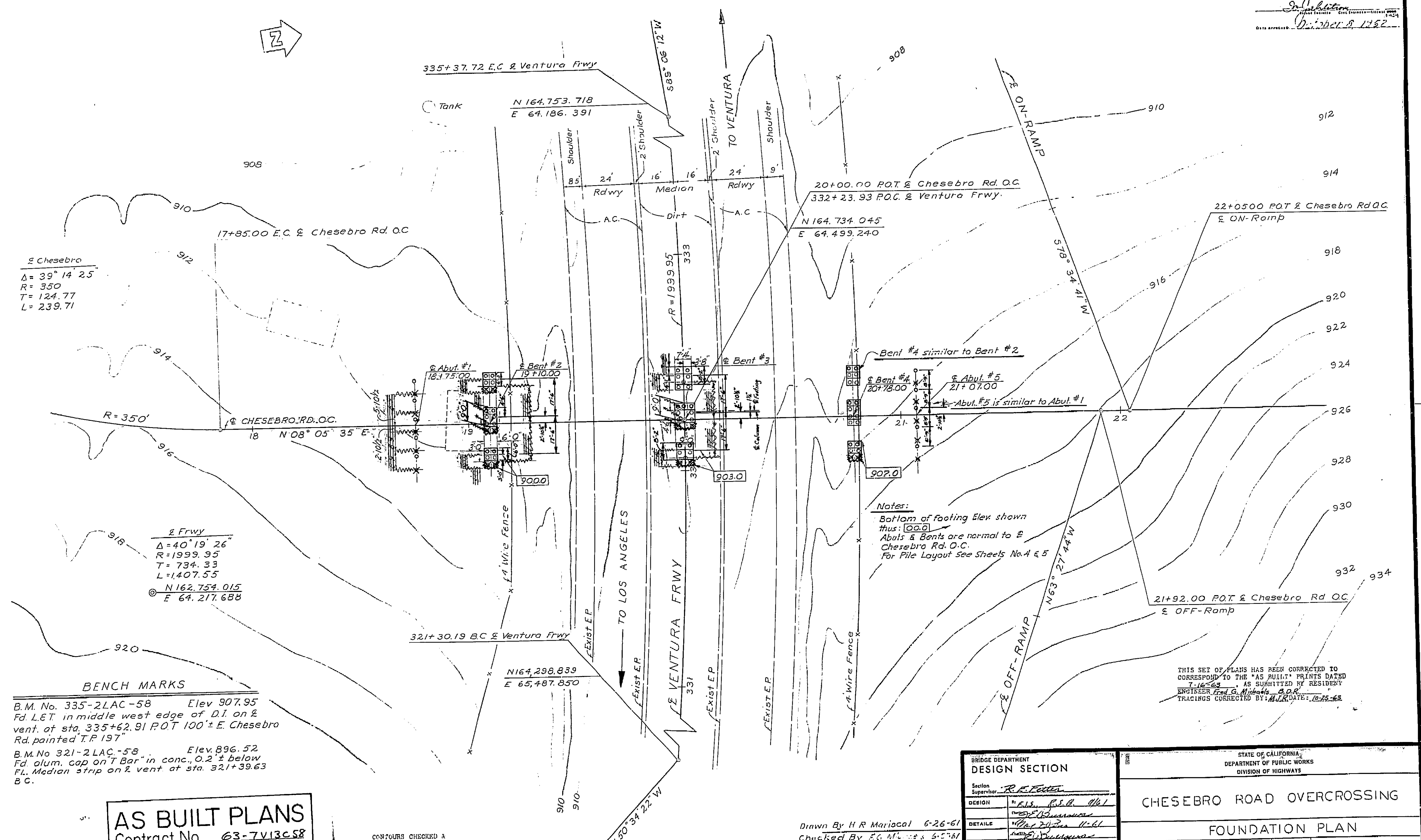
58

772

FED. ROAD DIST. NO.	STATE	F. & PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		53	91

VII LA 5

DATE APPROVED: Dec 18, 1952



Chesebro  
 $\Delta = 39^\circ 14' 25"$   
 $R = 350$   
 $T = 124.77$   
 $L = 239.71$

Frwy  
 $\Delta = 40^\circ 19' 26"$   
 $R = 1999.95$   
 $T = 734.33$   
 $L = 1407.55$   
 $N 162.754.015$   
 $E 64.217.688$

**BENCH MARKS**  
 B.M. No. 335-2LAC-58 Elev. 907.95  
 Fd. L&T in middle west edge of D.I. on E vent. of sta. 335+62.91 P.O.T. 100' E. Chesebro Rd. painted T.P. 197  
 B.M. No. 321-2LAC-58 Elev. 896.52  
 Fd. alum. cap on T Bar in conc. 0.2' below RL Median strip on E vent. at sta. 321+39.63 B.C.

**Notes:**  
 Bottom of footing Elev. shown thus: [00.0]  
 Abuts & Bents are normal to Chesebro Rd. O.C.  
 For Pile Layout see Sheets No. 4 & 5

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-16-58 AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, B.O.R. TRACINGS CORRECTED BY: M.L.R. DATE: 12-28-58

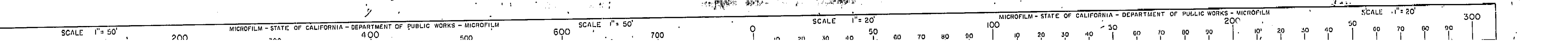
**AS BUILT PLANS**  
 Contract No. 63-7V13CSB  
 Date Completed \_\_\_\_\_  
 Document No. 7000 2373

CONTOURS CHECKED & VERIFIED IN FIELD  
 Date: June 1961  
 by: J.E.B.

Drawn By H.R. Mariscal 6-26-61  
 Checked By F.C.M.L. 8-5-61

BRIDGE DEPARTMENT DESIGN SECTION		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor: <u>R.E. Foster</u>	CHESEBRO ROAD OVERCROSSING		
DESIGN: <u>M.L. Mariscal</u>	FOUNDATION PLAN		
DETAILS: <u>M.L. Mariscal</u>	SCALE: 1"=20'	BRIDGE: 53-1676	FILE: 63
QUANTITIES: <u>M.L. Mariscal</u>	DRAWING: C-531678-3		
PREL. DRAWING NO. P. 531678			

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE: 1-18-72 SIGNATURE: [Signature] TITLE: \_\_\_\_\_

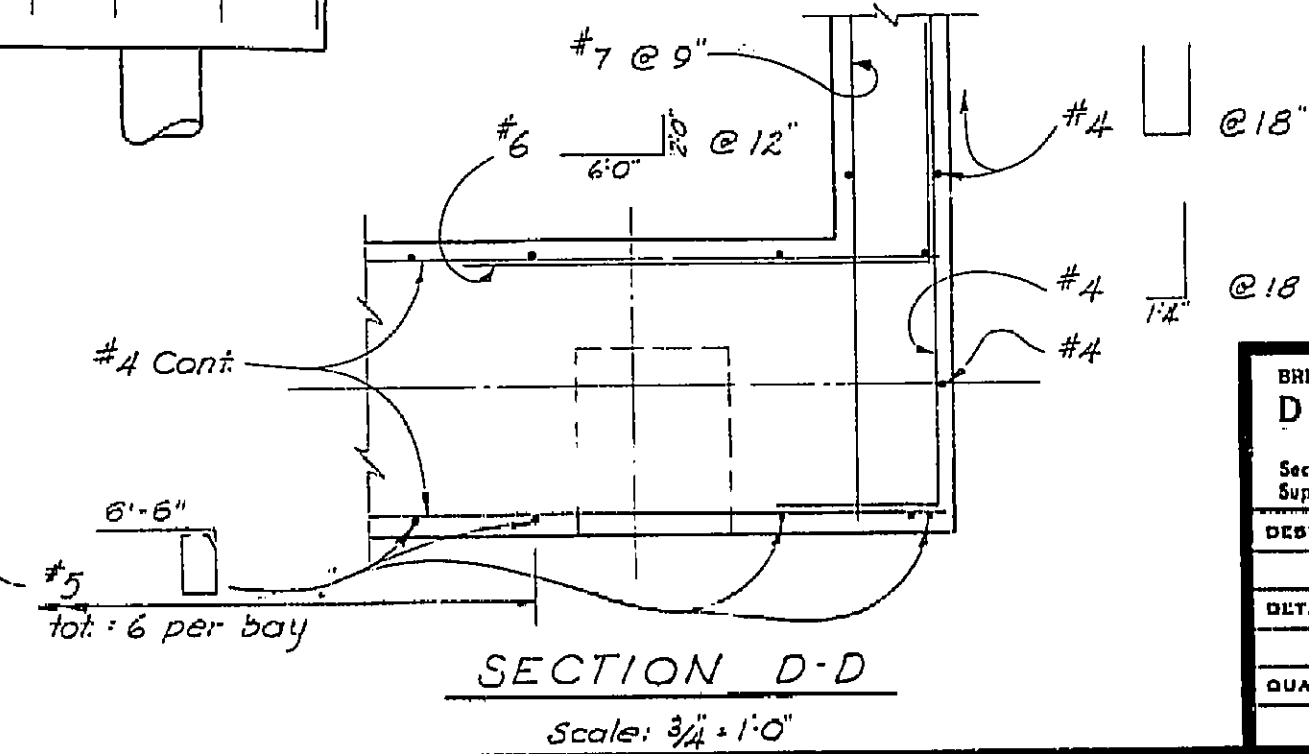
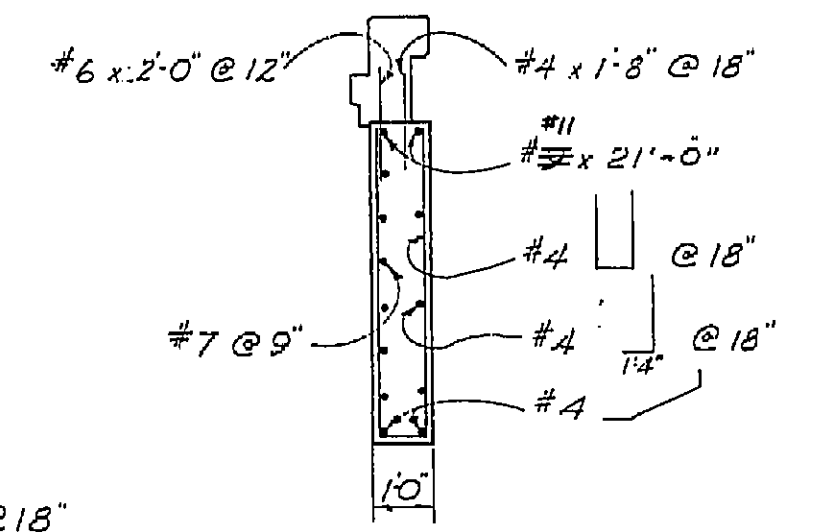
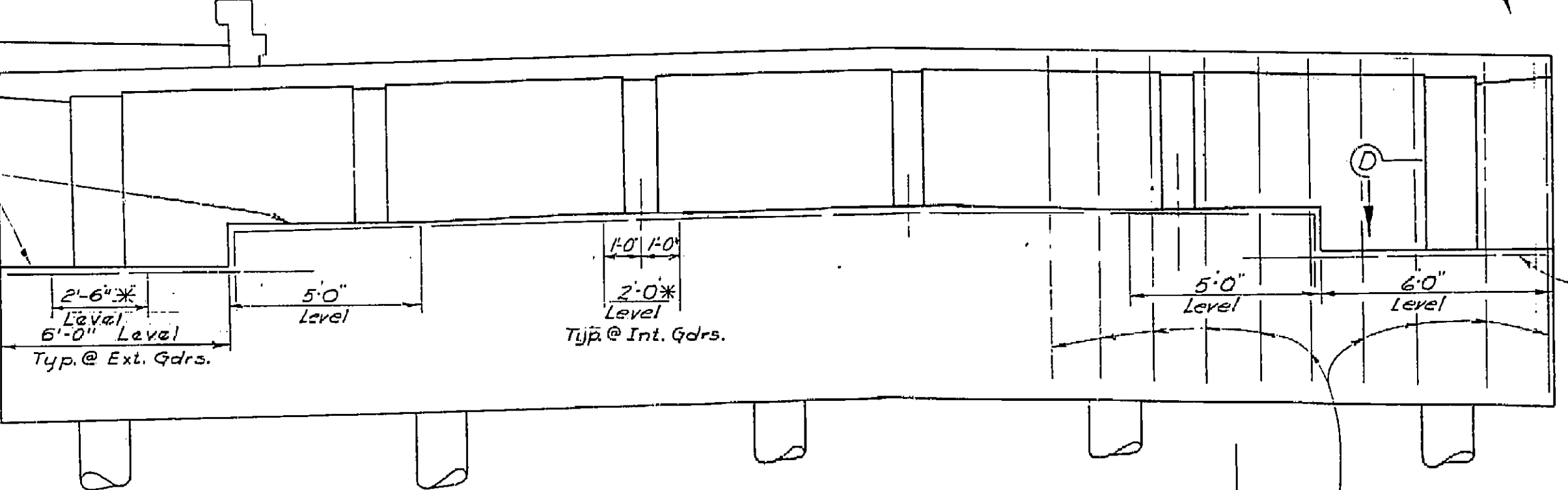
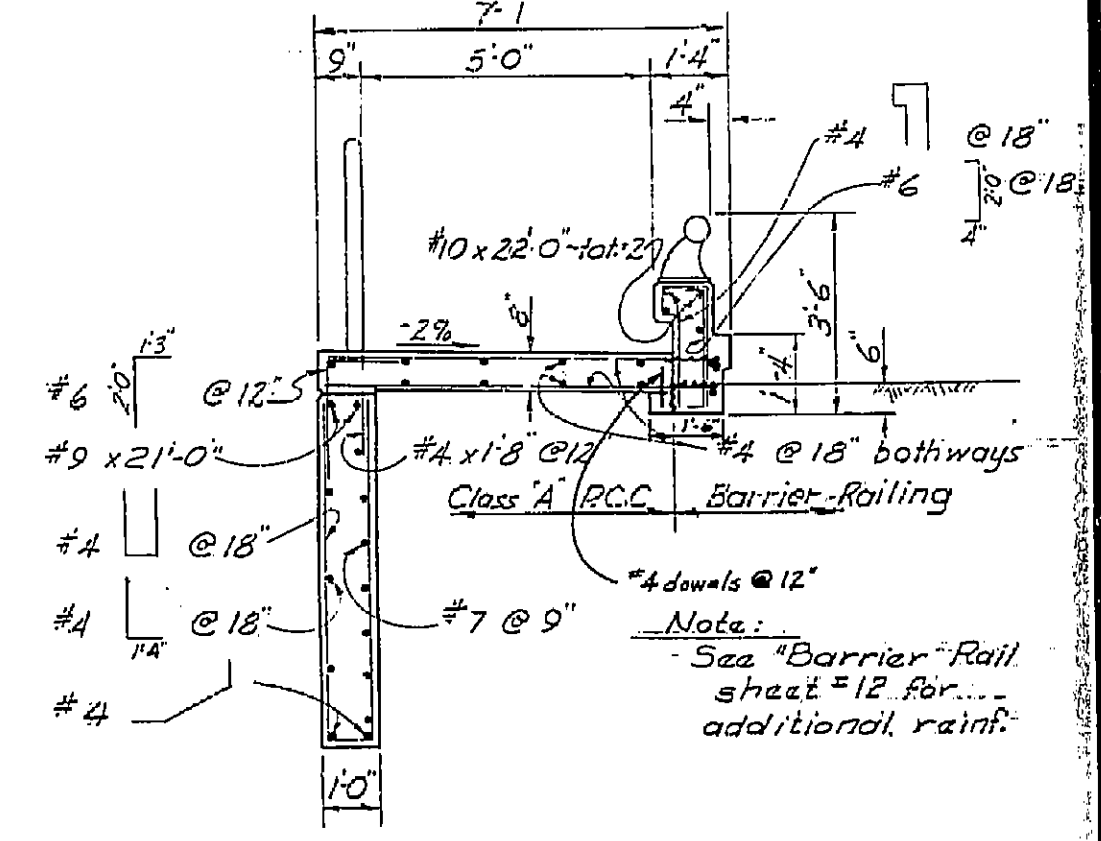
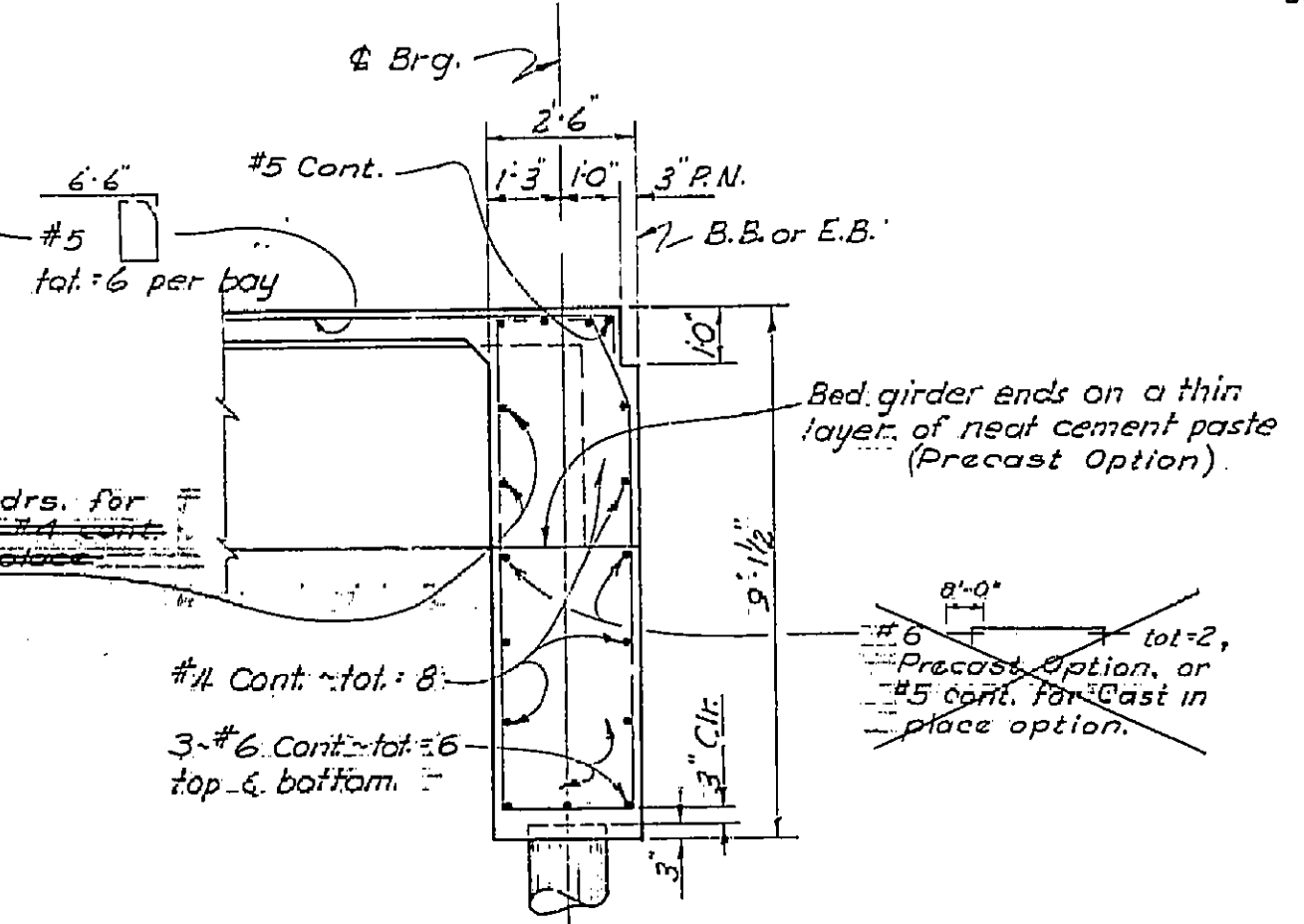
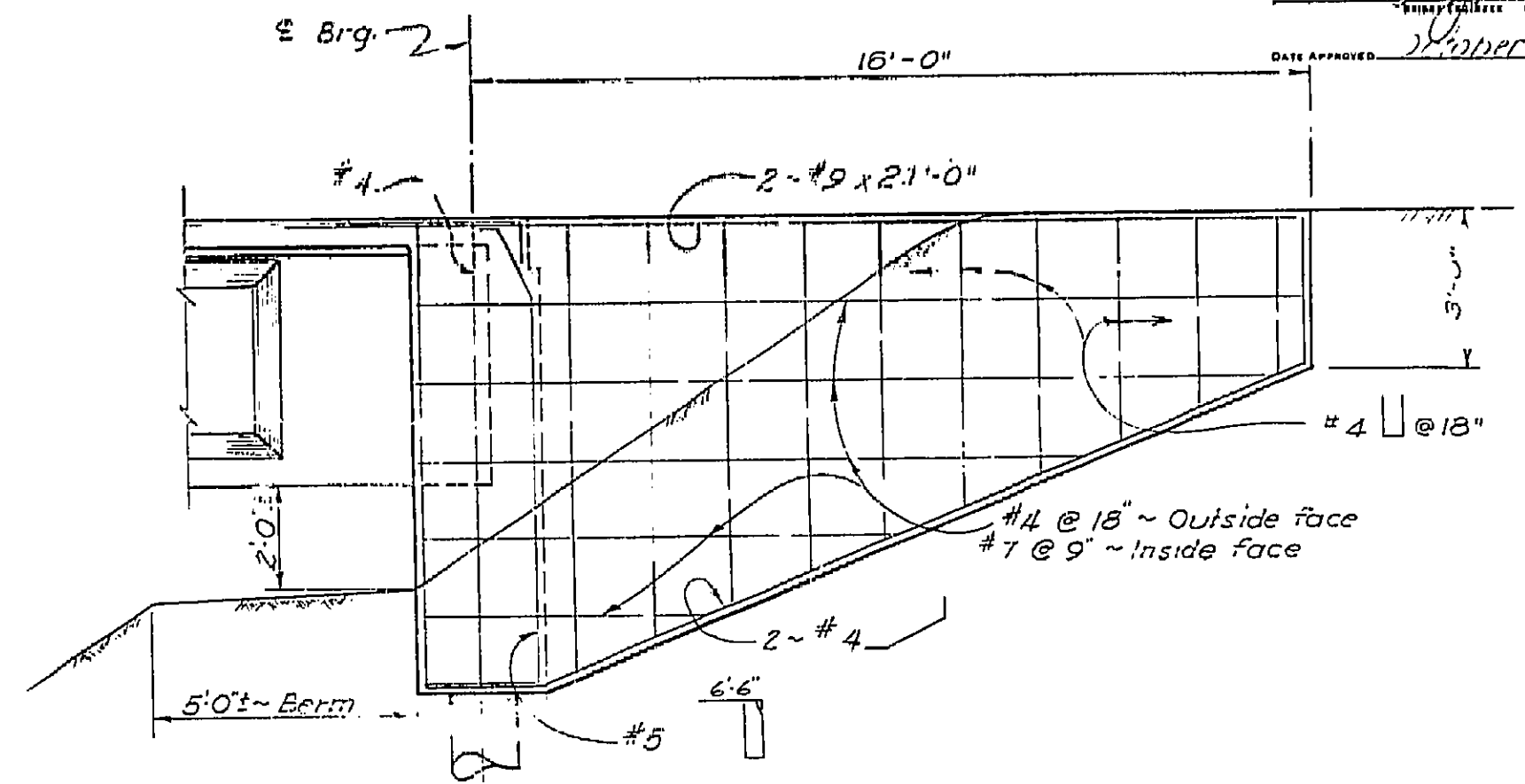
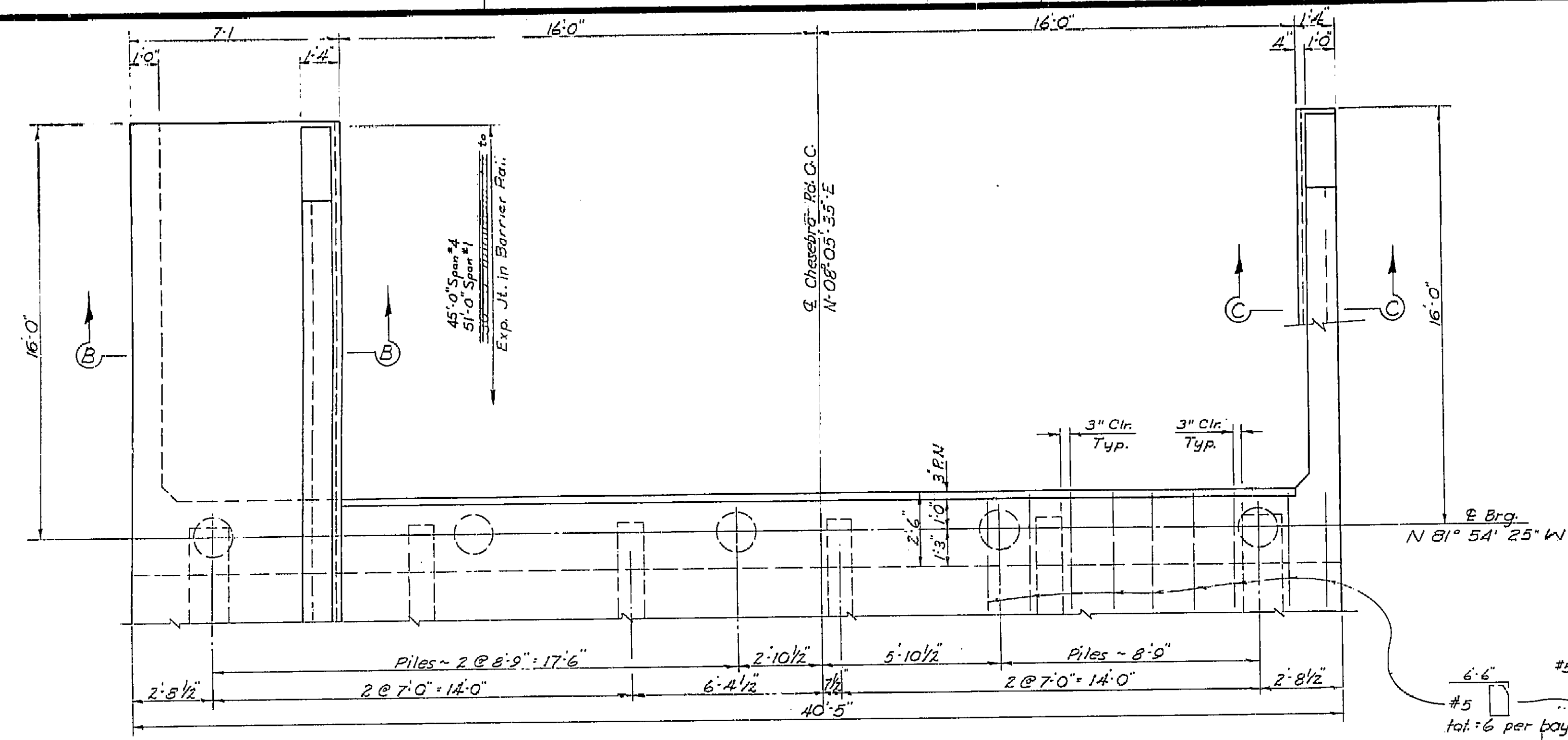


59

FED. ROAD DIST. NO.	STATE	P. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		62	21

DATE	COUNTY	ROUTE	SECTION	POST MILE	TOTAL MILES
11/14	LA	5	3	4	115

DATE APPROVED: *[Signature]*  
 11/14/62



\* For Precast Option - Finish or grind to a smooth surface, (level normal to E. Gdr., and at slope of gdr. length. to W. gdr.) set girders in a thin layer of neat cement grout.

**AS BUILT PLANS**  
 Contract No. 63-7V13C58  
 Date Completed \_\_\_\_\_  
 Document No. 7000 2373

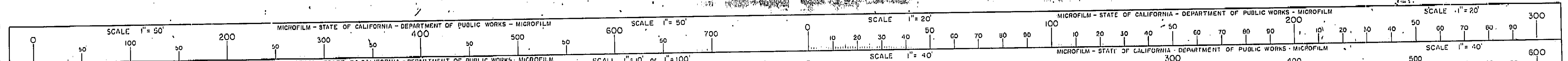
Note:  
 For Barrier Railing Details not shown See Sheets #12 & 13

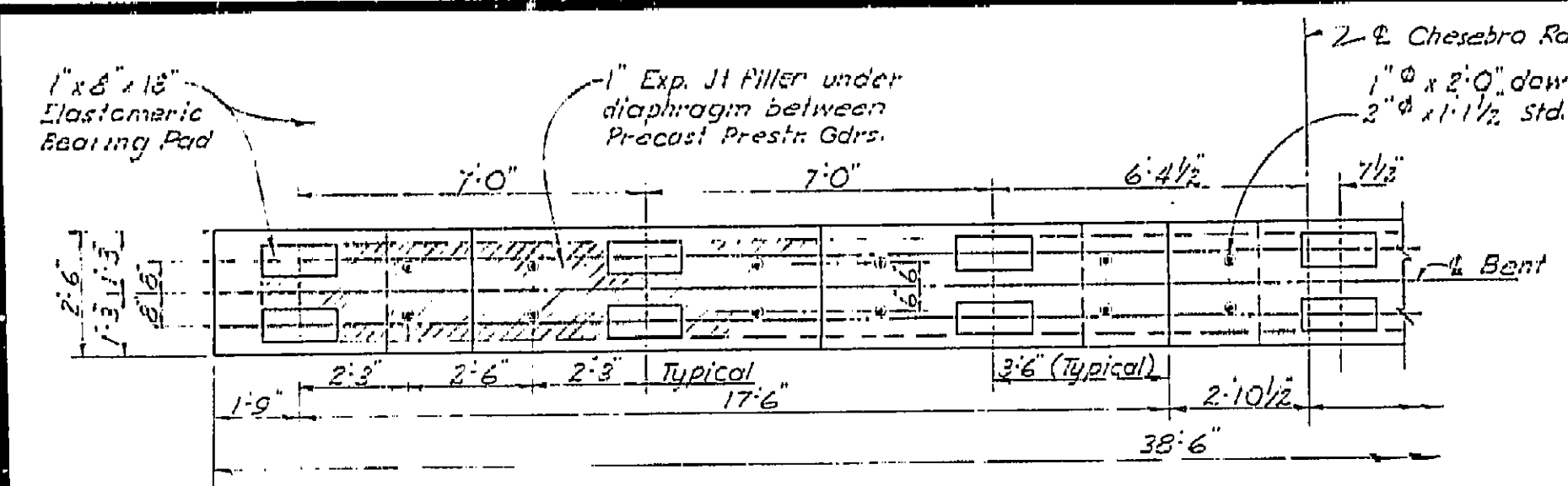
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-16-63 AS SUBMITTED BY RESIDENT ENGINEER Fred C. Michaels - B.O.B. REVISIONS CORRECTED BY: M.J.C. DATE: 10-25-63

BRIDGE DEPARTMENT DESIGN SECTION 4	
Section Supervisor	<i>[Signature]</i>
DESIGN	By E.L.S. R.S.B. 11/61
DETAILS	By G.P. [Signature] 11-61
QUANTITIES	By G.P. [Signature] 12/61

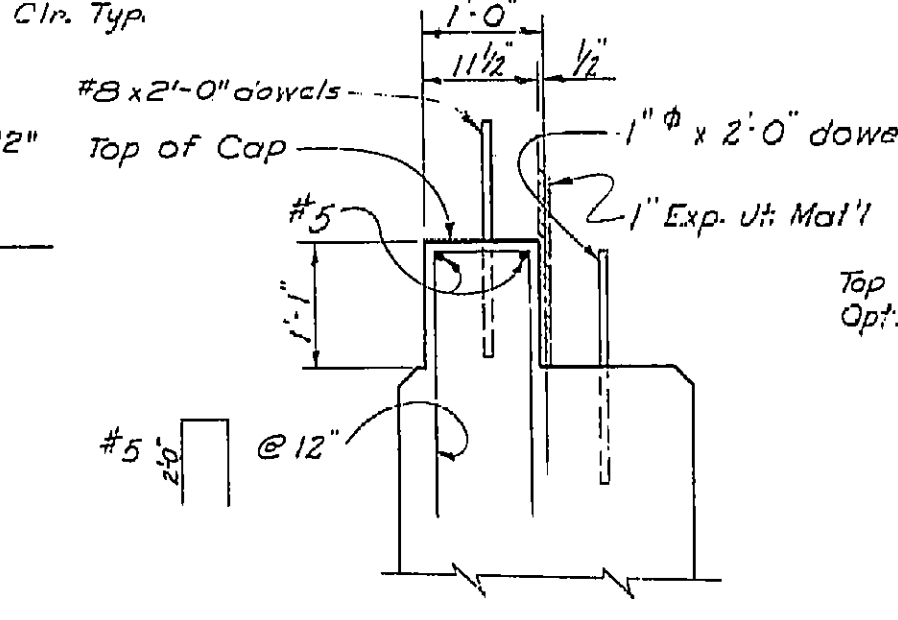
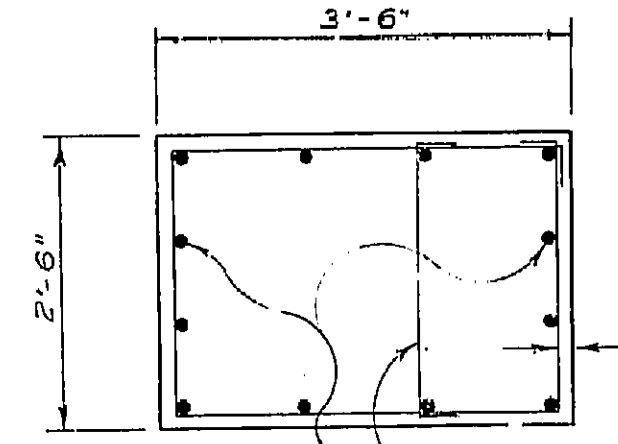
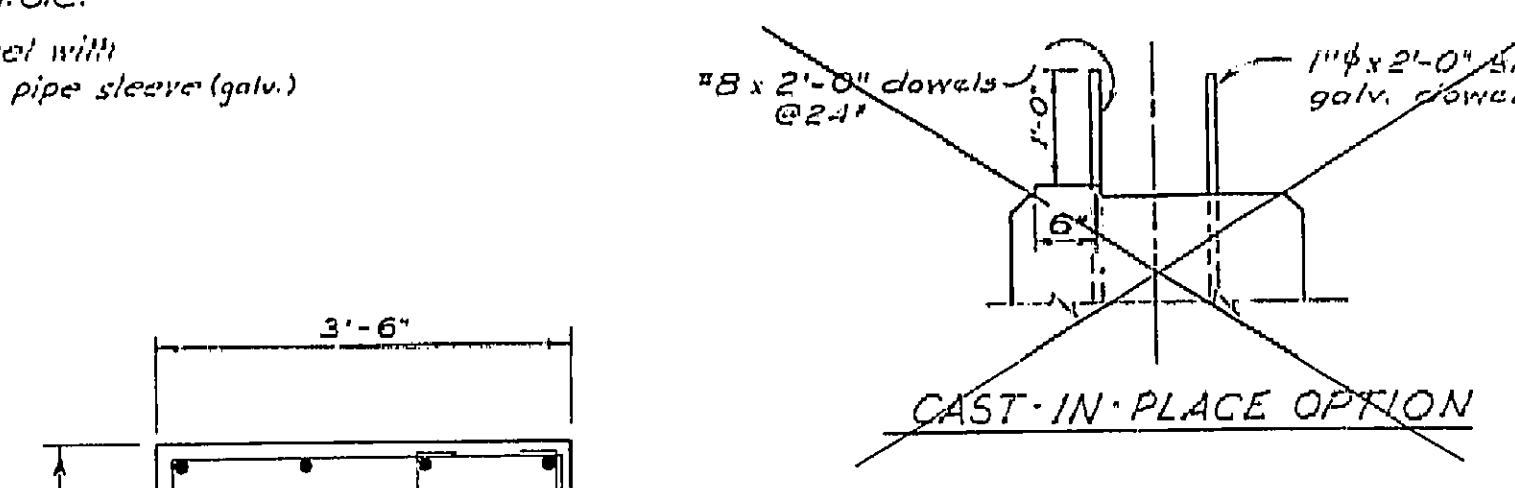
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
CHESEBRO ROAD OVERCROSSING			
ABUTMENT DETAILS			
SCALE AS SHOWN	BRIDGE 53-1678	FILE	DRAWING C-531678-4
PRELIMINARY DRAWING NO.	P-531678-3	REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 1-11-72 SIGNATURE *[Signature]* TITLE \_\_\_\_\_

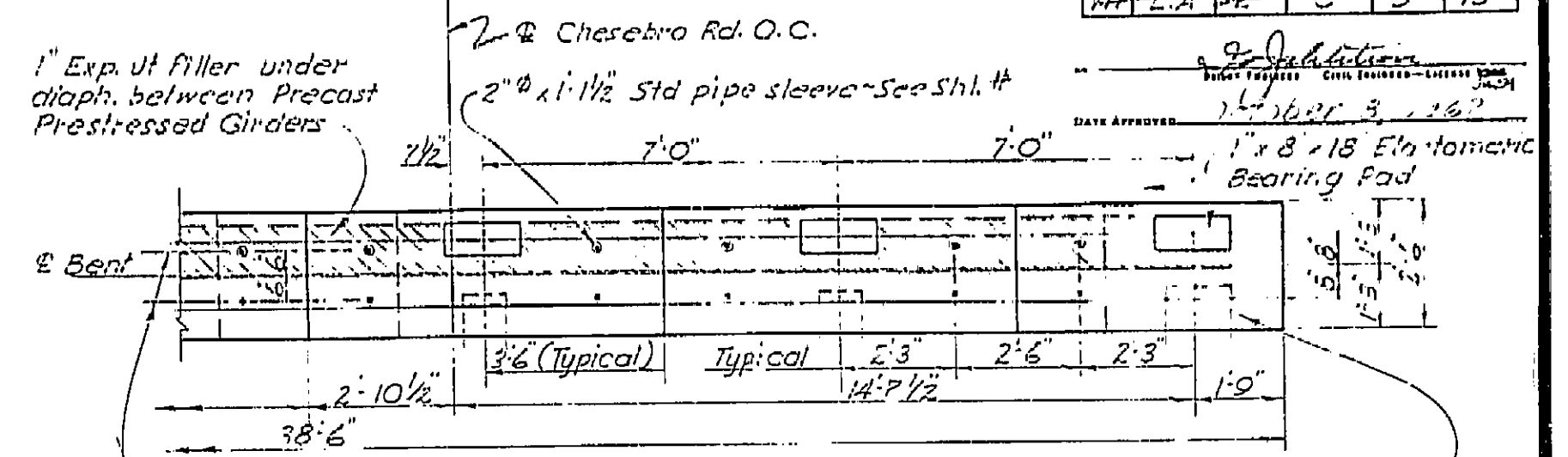




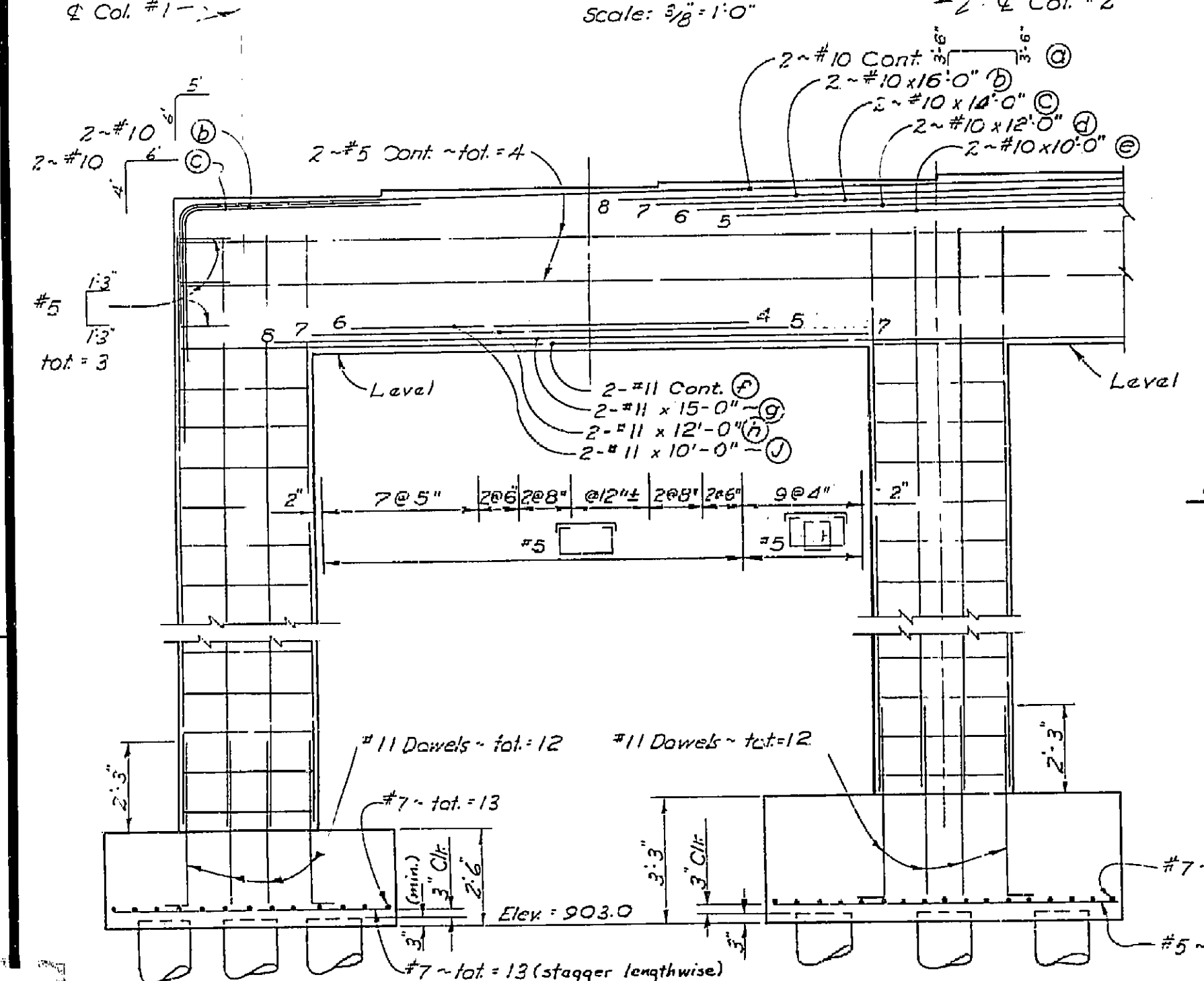
HALF PLAN  
Scale: 3/8" = 1'-0"



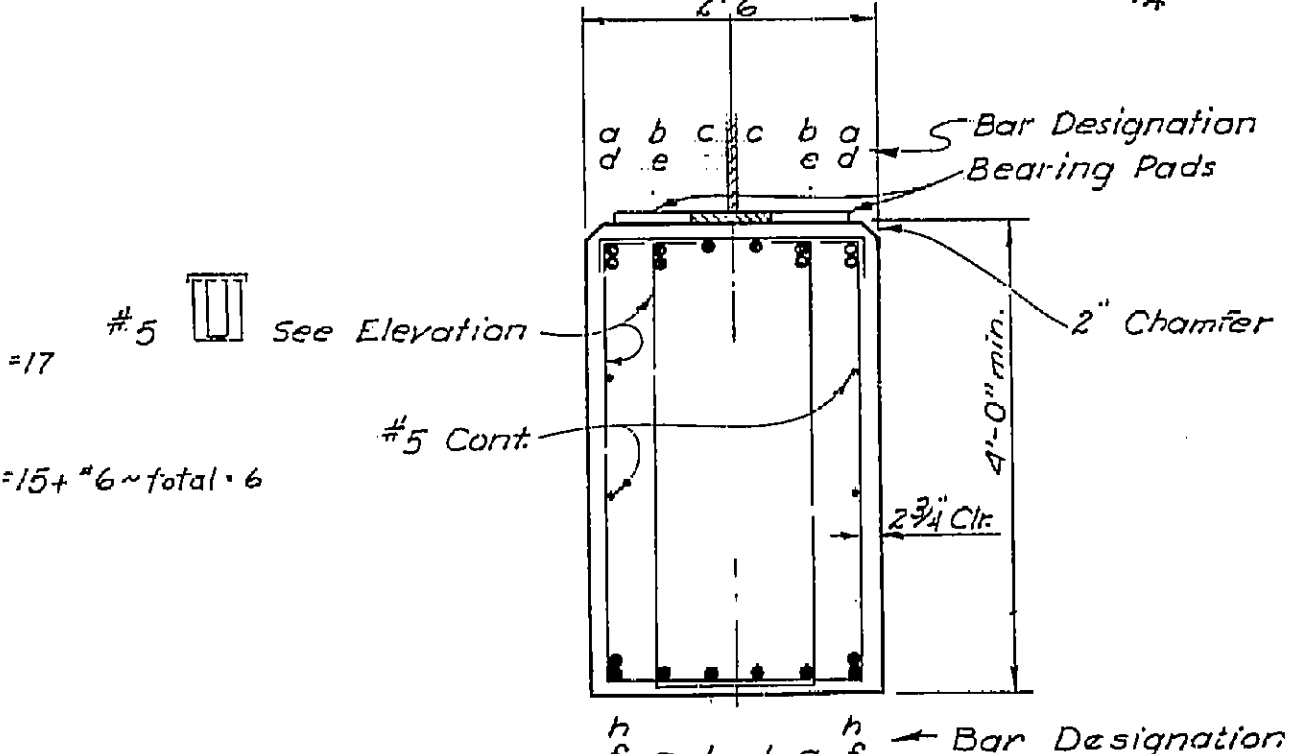
Note:  
Number at ends of bars indicate distance in feet from & Col. for top reinf. and from & between Col. for bottom reinf.



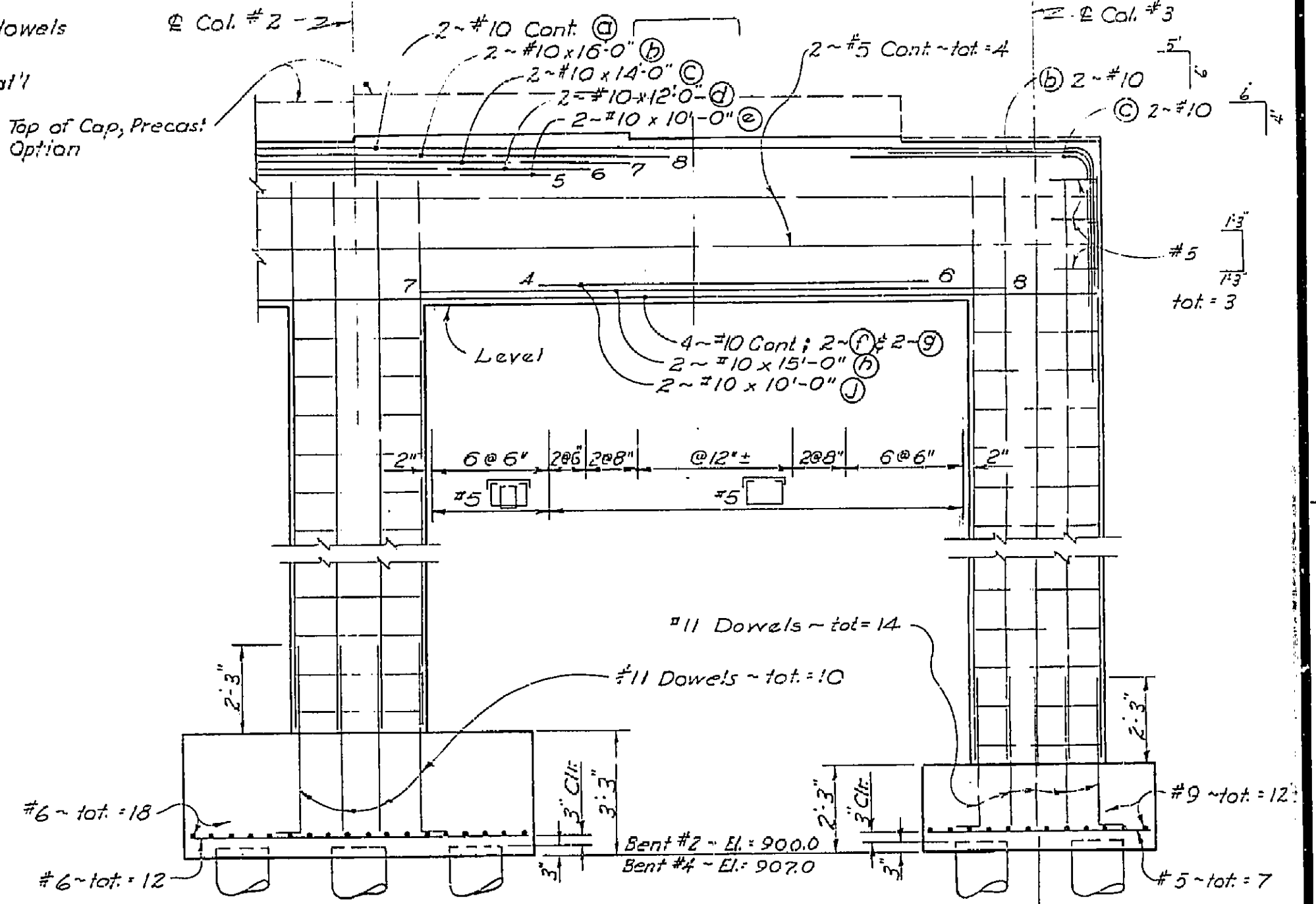
HALF PLAN  
Scale: 3/8" = 1'-0"



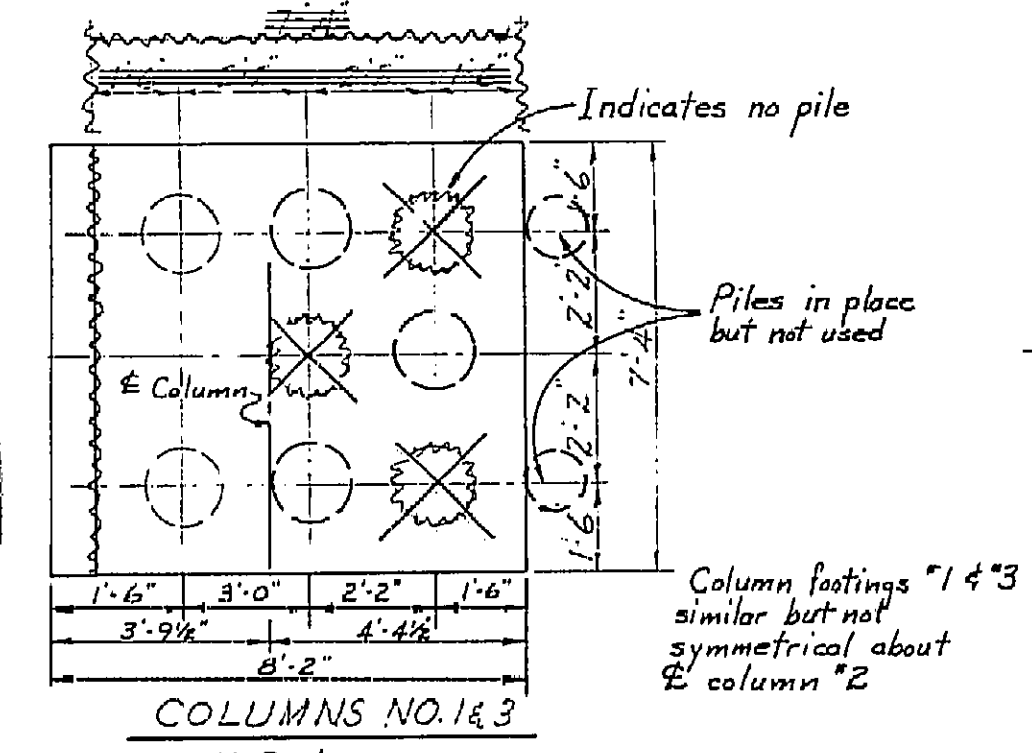
HALF ELEVATION  
BENT NO. 3  
Scale: 3/8" = 1'-0"



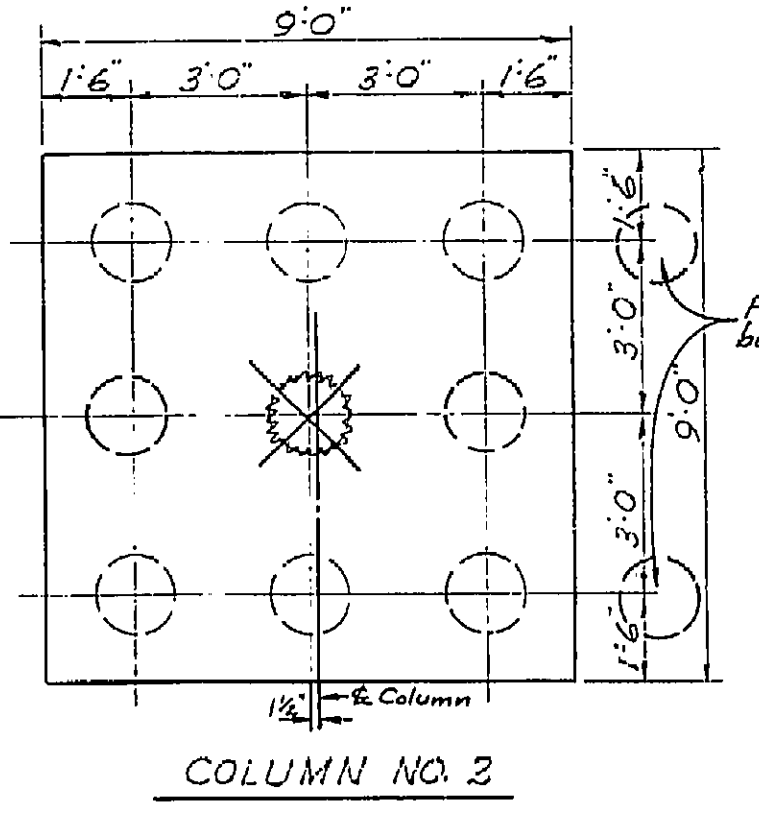
CAP SECTION  
BENT NO. 3  
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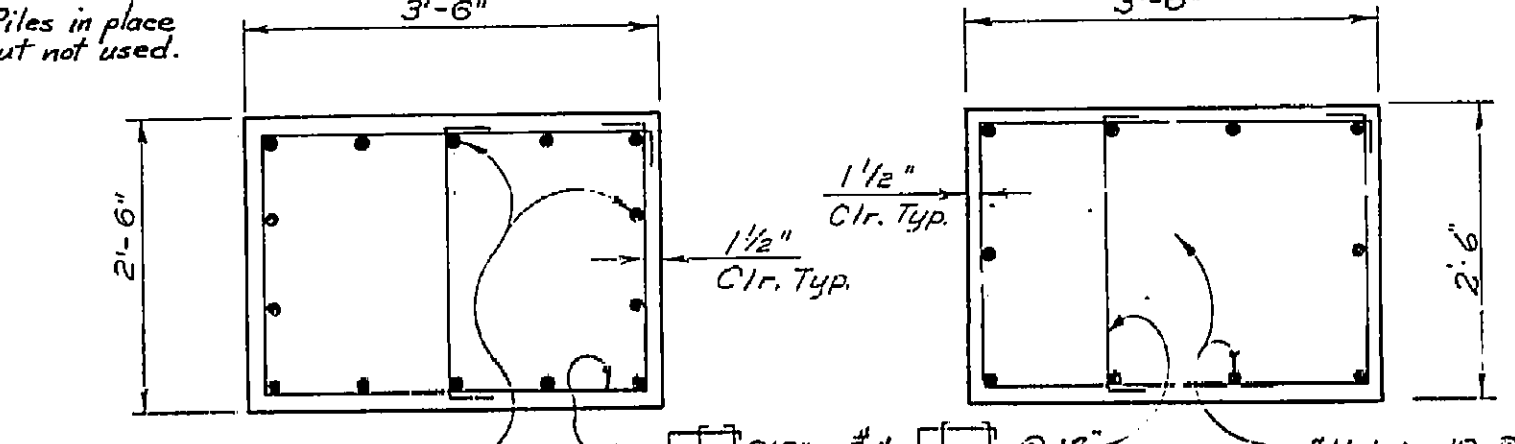
HALF ELEVATION  
BENTS NO. 2 & 4  
Scale: 3/8" = 1'-0"



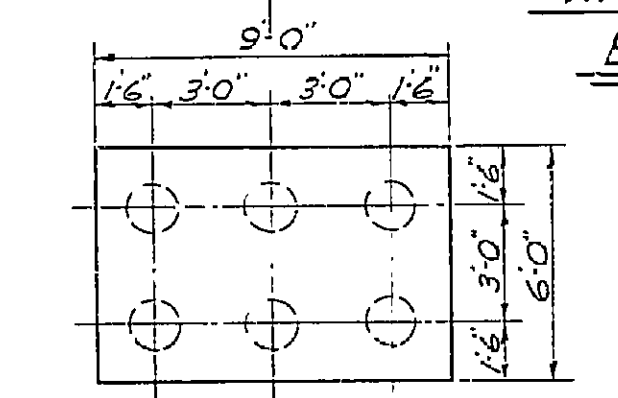
FOOTING PLAN  
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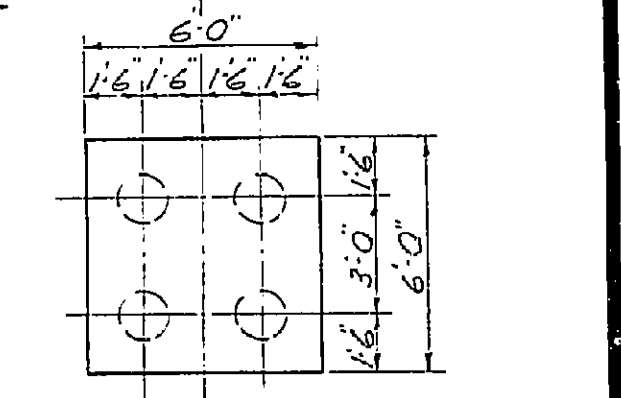
COLUMN NO. 2



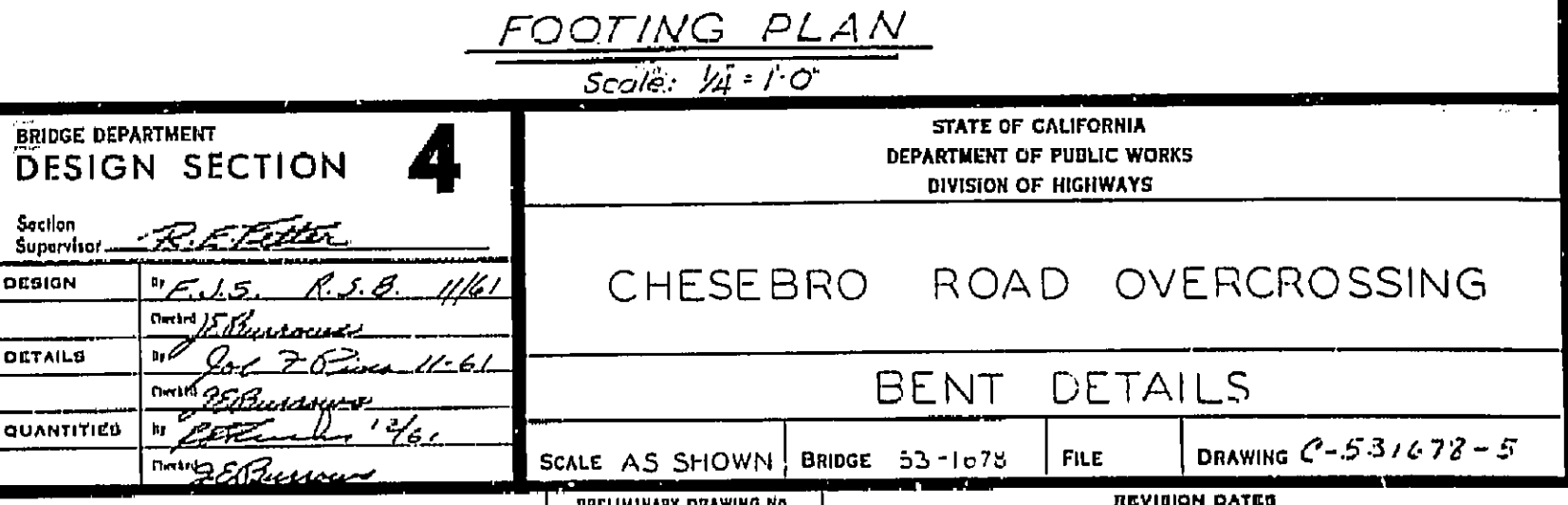
COLUMN SECTION  
BENTS 2 & 4  
Scale: 3/4" = 1'-0"



COLUMN NO. 2



COLUMNS NO. 1 & 3



FOOTING PLAN  
Scale: 3/4" = 1'-0"

AS BUILT PLANS  
Contract No. 63-7V13C58  
Date Completed  
Document No. 70002373

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-18-63, AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, R.O.B. TRACINGS CORRECTED BY: M.J.R. DATE: 10-25-63

BRIDGE DEPARTMENT DESIGN SECTION 4		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor	R. H. Fisher	CHESEBRO ROAD OVERCROSSING	
DESIGN	E. L. S. R. S. H. H. H.	BENT DETAILS	
DETAILS	J. P. H. H. H. H. H.	SCALE AS SHOWN BRIDGE 53-1078 FILE DRAWING C-531678-5	
QUANTITIES	J. P. H. H. H. H. H.	PRELIMINARY DRAWING NO. P-531678-9 REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 11 22 SIGNATURE [Signature] TITLE [Title]

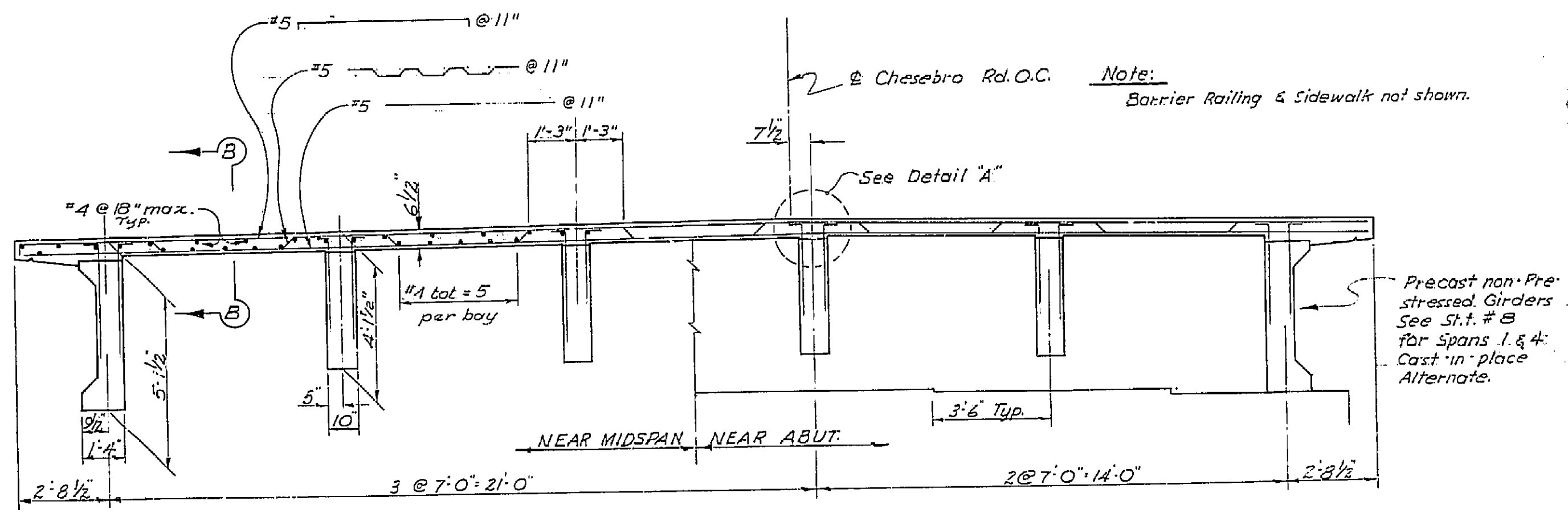
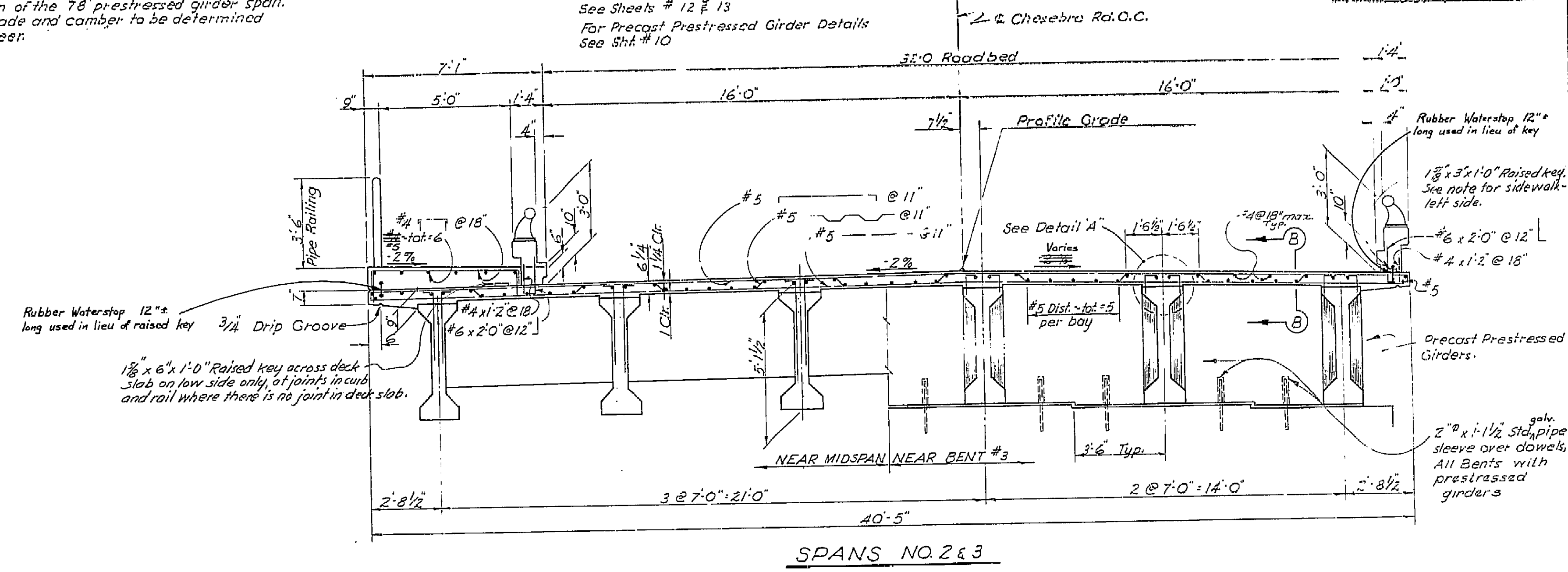


FED. ROAD DISTRICT	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		36	11

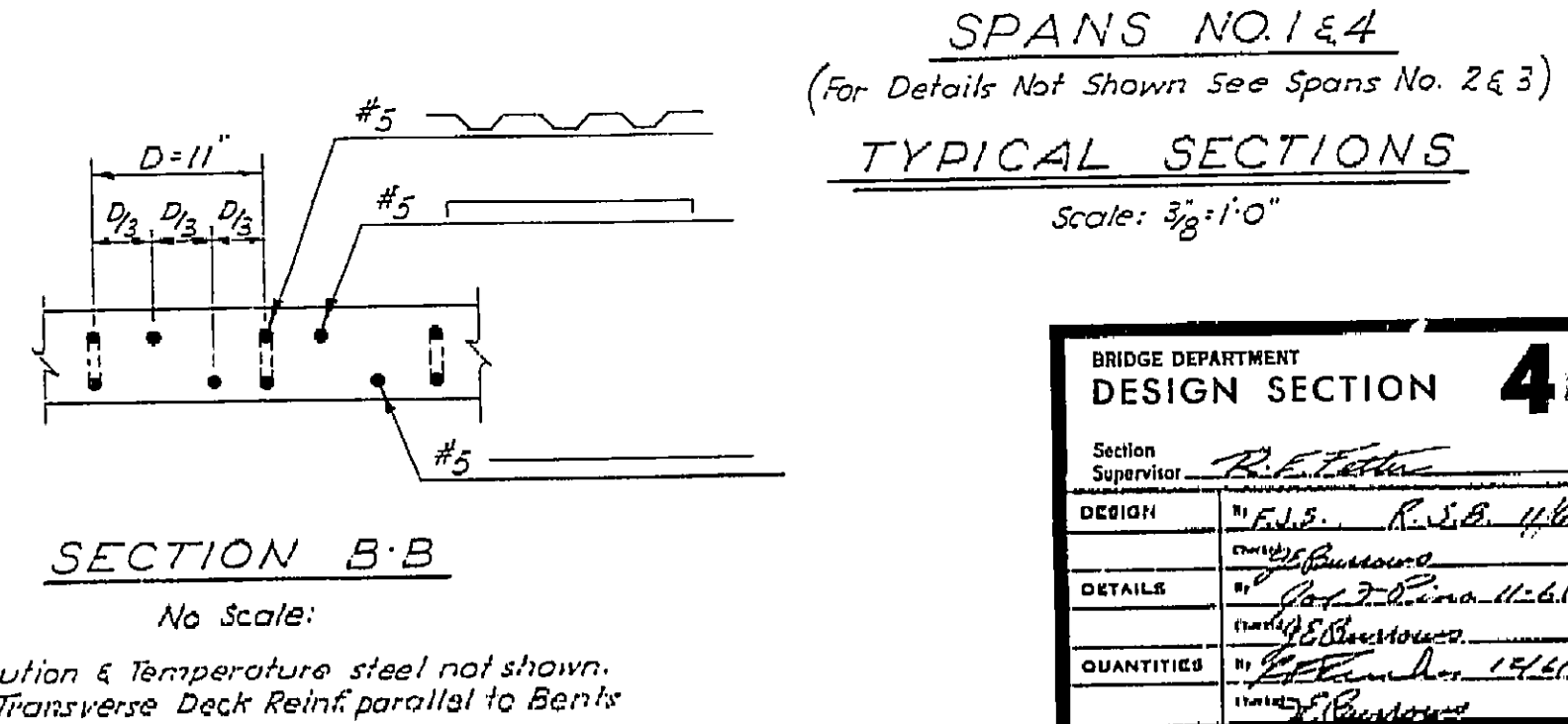
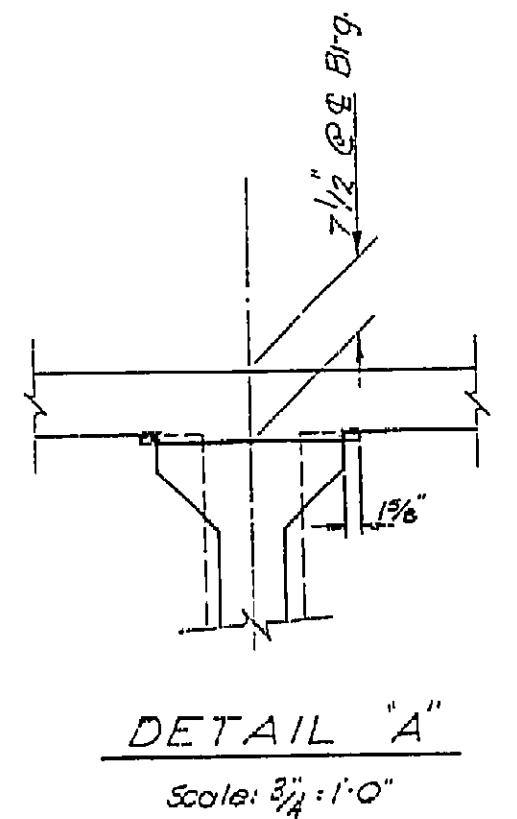
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	LA	5		6	16

Note:  
Anticipated deflection due to placing of deck = 1/8" at midspan of the 90 prestressed girder span & 1/4" at midspan of the 78 prestressed girder span. Final deck grade and camber to be determined by the Engineer.

Note:  
For Barrier Railing Details not shown See Sheets # 12 & 13  
For Precast Prestressed Girder Details See Sht # 10



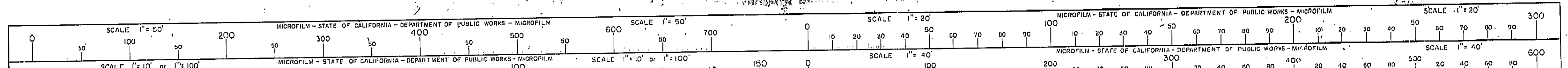
**AS BUILT PLANS**  
Contract No. 63-7V13C58  
Date Completed \_\_\_\_\_  
Document No. 70002373



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-18-63 AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, B.O.B. TRACINGS CORRECTED BY: M.L.R. DATE: 10-25-63

BRIDGE DEPARTMENT <b>DESIGN SECTION 4</b>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor <i>R. E. [Signature]</i>	DESIGN BY: E.L.S. R.S.B. 11/61	CHESEBRO ROAD OVERCROSSING	
DETAILS BY: [Signature]	QUANTITIES BY: [Signature]	TYPICAL SECTIONS	
SCALE AS SHOWN	BRIDGE 53-1678	FILE	DRAWING C-531678-6
PRELIMINARY DRAWING NO. P-531678-2		REVISION DATES	

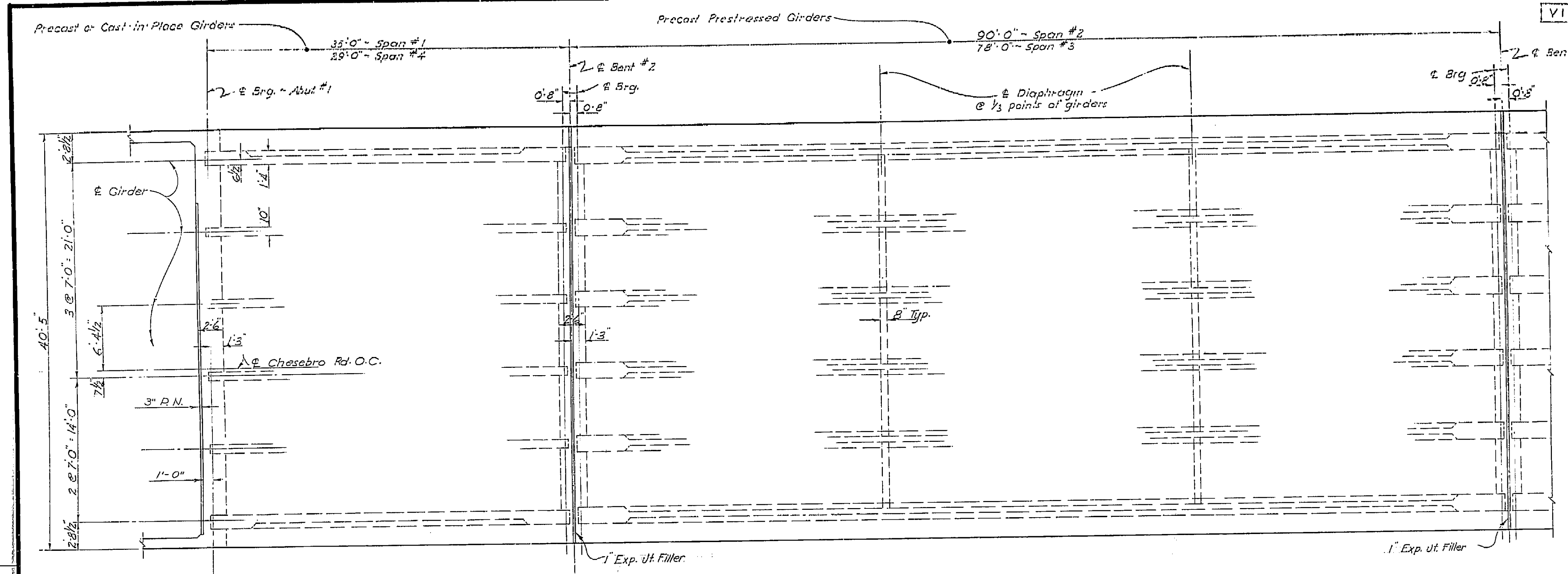
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 1-15-72 SIGNATURE [Signature] TITLE \_\_\_\_\_



FED. ROAD DIST. NO.	STATE	P. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		5	751

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	LA	5		5	751

DATE APPROVED: *J. J. Williams*  
*W. J. Williams*



**GIRDER LAYOUT**  
 Scale: 3/16" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-18-63 AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, S.D.P. TRACINGS CORRECTED BY: M.L.R. DATE: 10-28-63  
 No Changes

**AS BUILT PLANS**  
 Contract No. 63-7V13C58  
 Date Completed \_\_\_\_\_  
 Document No. 70002373

BRIDGE DEPARTMENT DESIGN SECTION <b>4</b>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor: <i>R. J. Williams</i>		CHESEBRO ROAD OVERCROSSING	
DESIGN: <i>E. S. R. B. H. G. L.</i>		GIRDER LAYOUT	
DETAILS: <i>E. S. R. B. H. G. L.</i>		SCALE AS SHOWN	BRIDGE 53-1078
QUANTITIES: <i>E. S. R. B. H. G. L.</i>		FILE	DRAWING C-531678-7
PRELIMINARY DRAWING No. P-531678-11		REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 1-11-72 SIGNATURE Jim. E. Grant TITLE \_\_\_\_\_



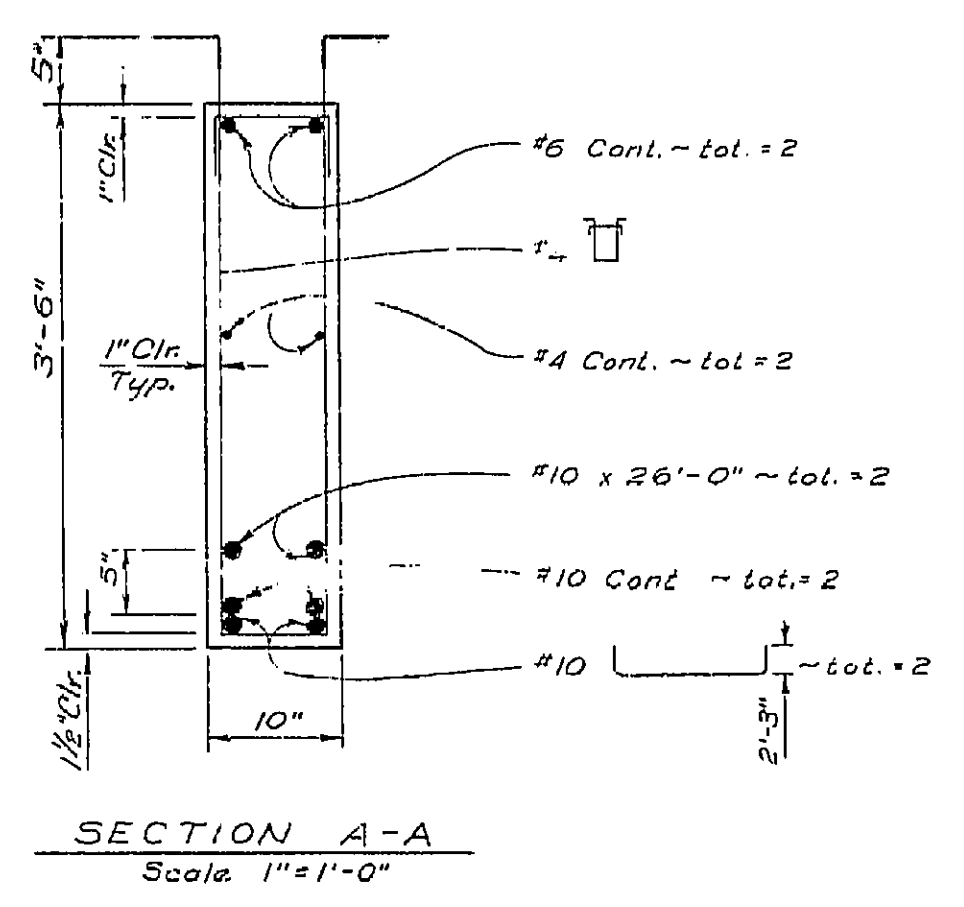
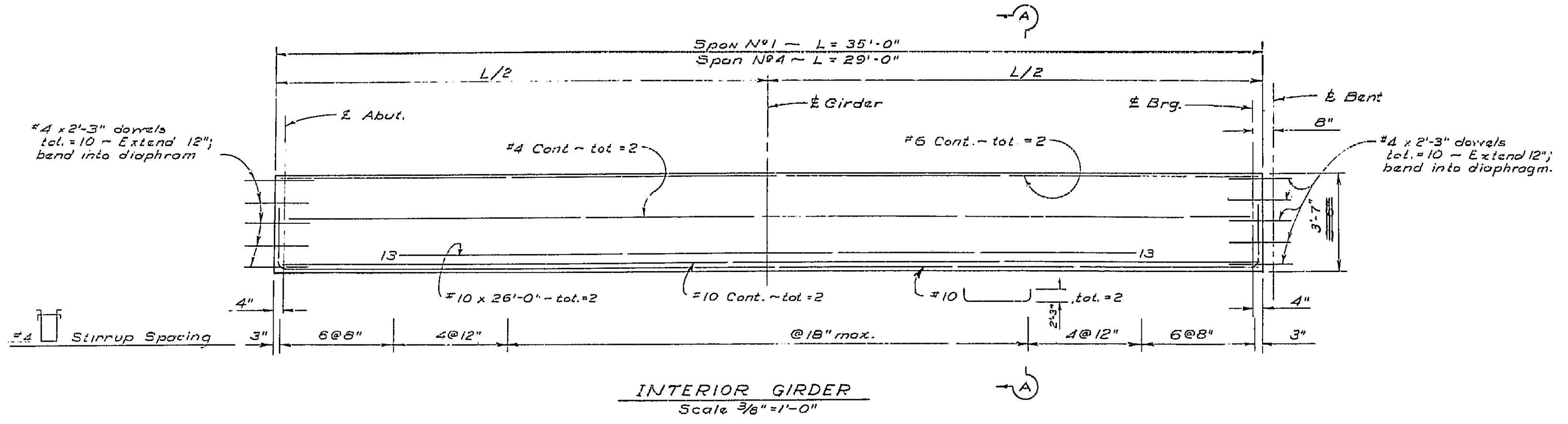
63

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		11	11

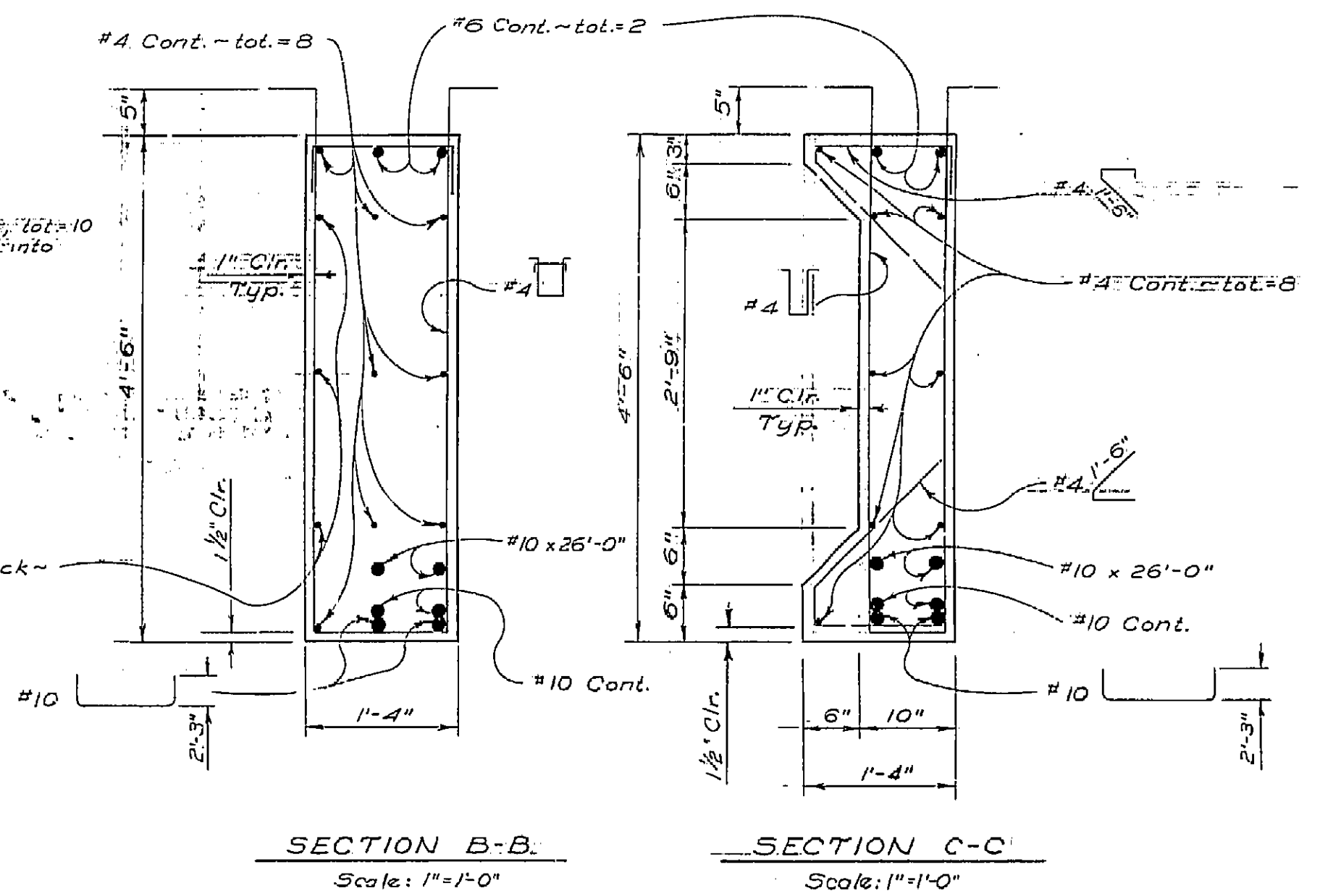
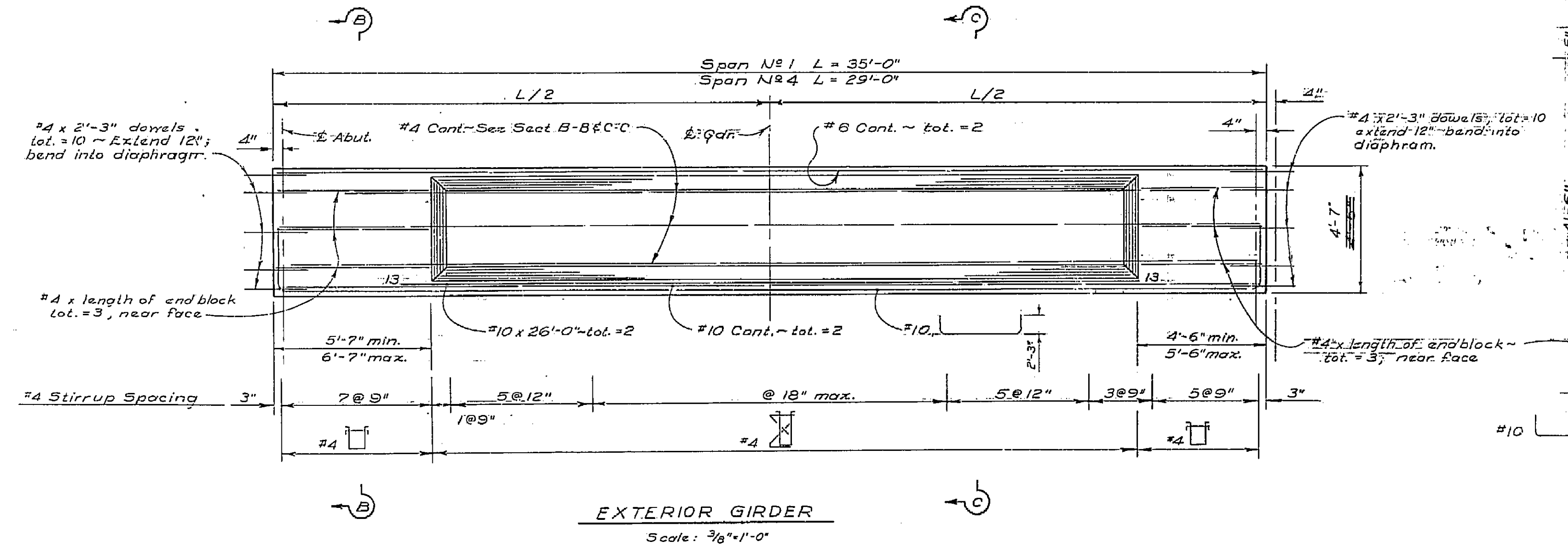
VII LA 5

DATE	BY	REVISION	SECTION	SHEET NO.	TOTAL SHEETS
11/1/62	J. J. [Signature]		C-5	5	75

DATE APPROVED: 11/1/62



Note  
Number at ends of bars indicate distance in feet from E Girder to end of bar.  
Interior Girders are similar about E



Note  
For "Cast-in-place" girder alternate See sheet No 9

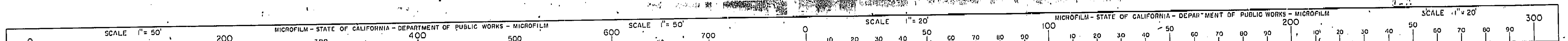
AS BUILT PLANS  
Contract No. 63-7V13CS8  
Date Completed \_\_\_\_\_  
Document No. 70002373

BRIDGE DEPARTMENT DESIGN SECTION 4	
Section Supervisor	R. B. [Signature]
DESIGN	By E. S. R. S. B. [Signature]
DETAILS	By [Signature]
QUANTITIES	By [Signature]

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
CHESEBRO ROAD OVERCROSSING	
GIRDER DETAILS SPANS 1&4 PRECAST ALTERNATIVE	
SCALE A 3/8"=1'-0"	BRIDGE 33-1678
FILE	DRAWING C-531678-8

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-18-63 AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, B.D.R. TRACINGS CORRECTED BY: M.J.R. DATE 10-28-63

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 1-11-72 SIGNATURE [Signature] TITLE [Title]

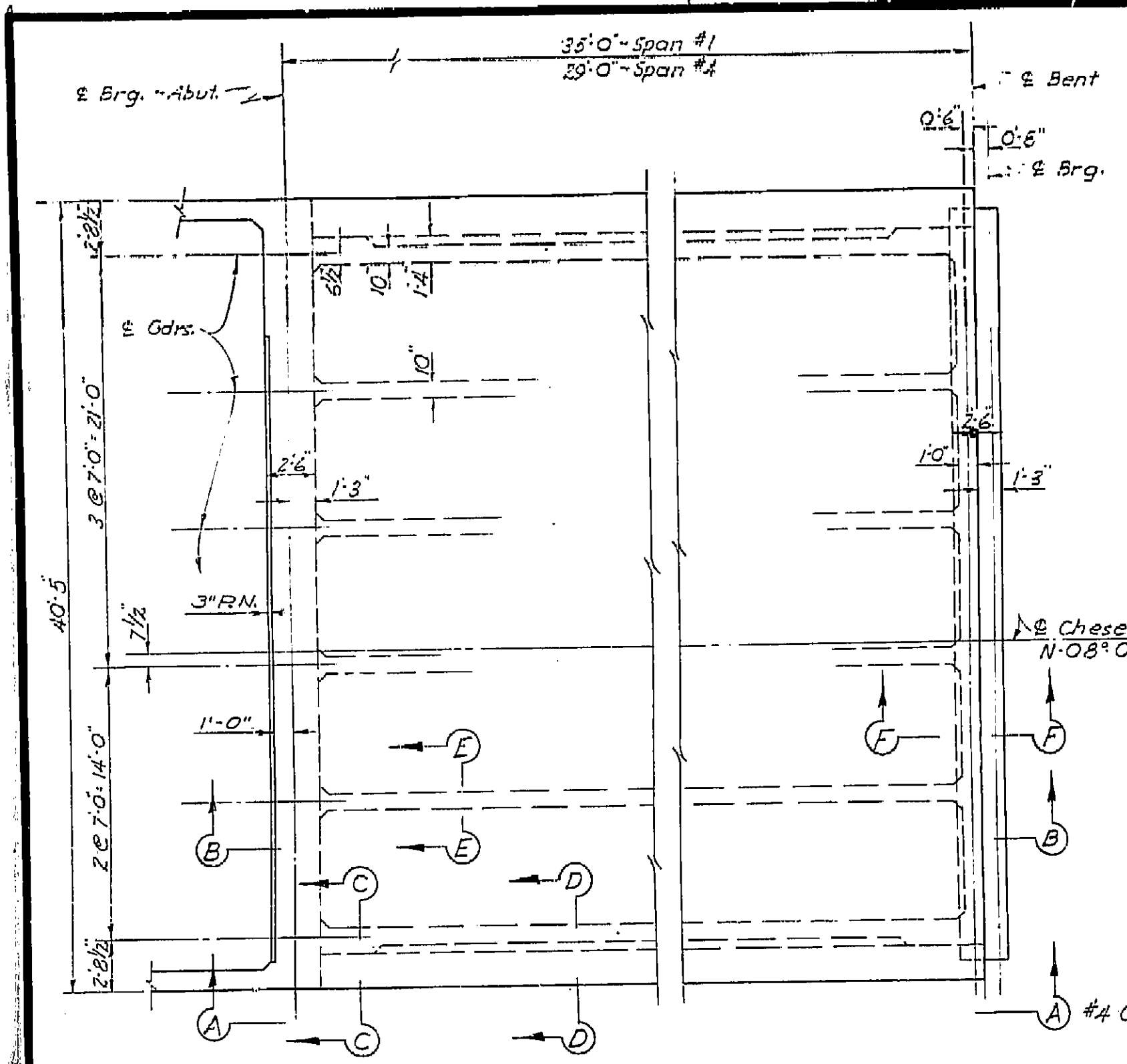


64

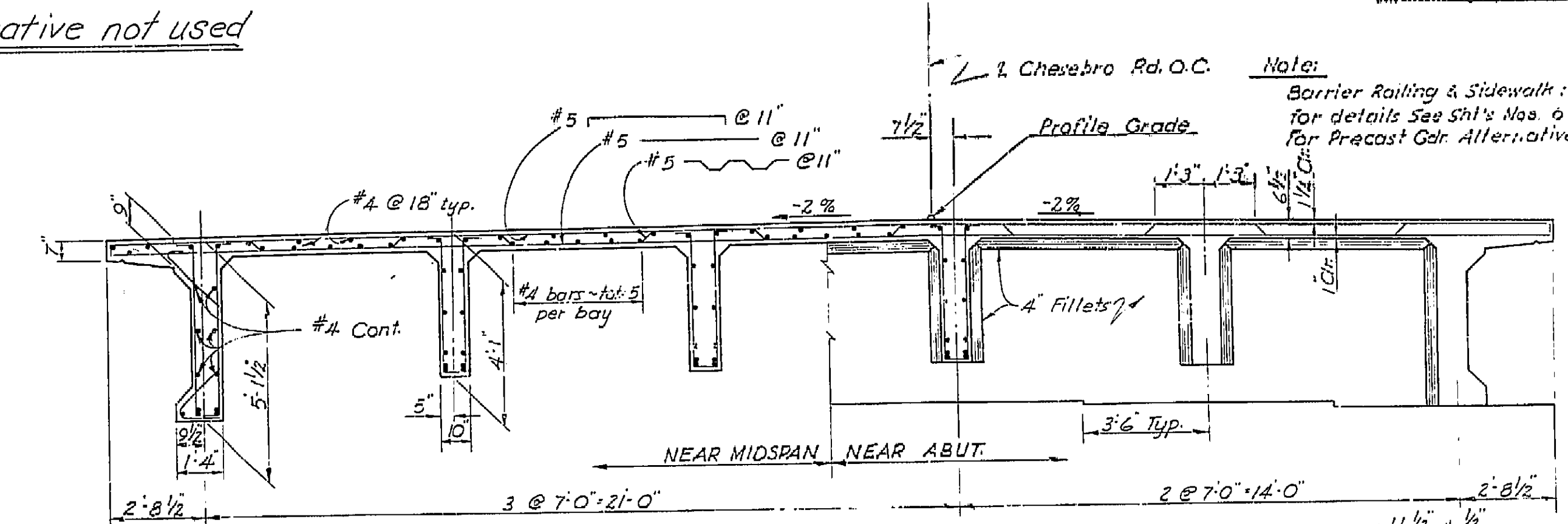
FED. ROAD DIV. NO.	STATE	P.A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		52	91

DIST.	COUNTY	ROUTE	SECTION	POST MILE	STATION
VII	LA	5			

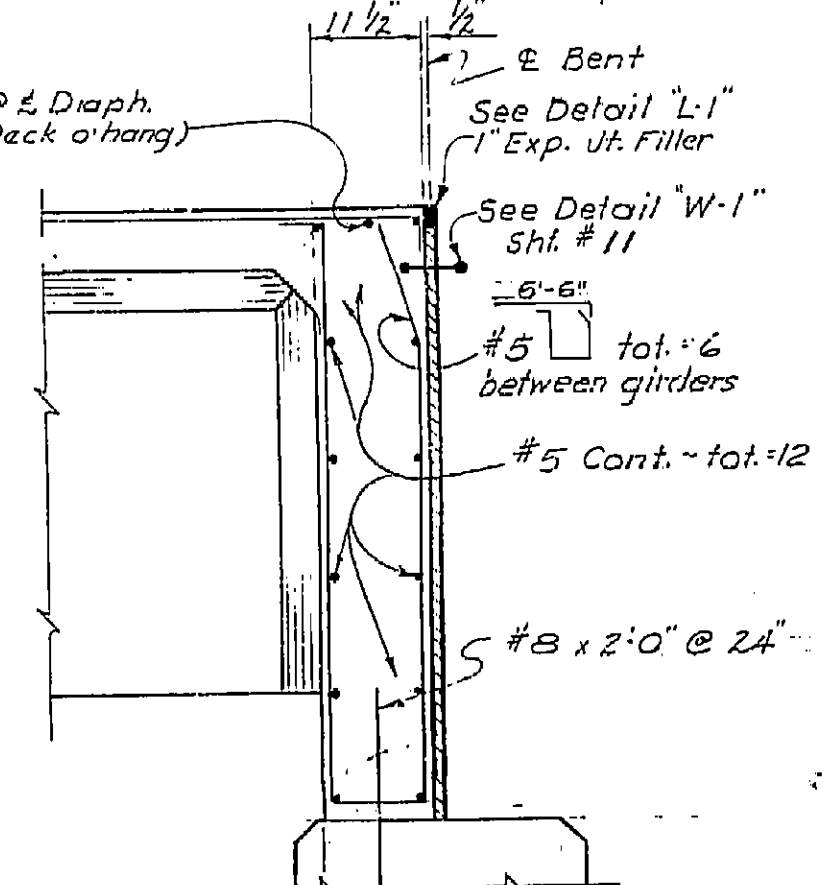
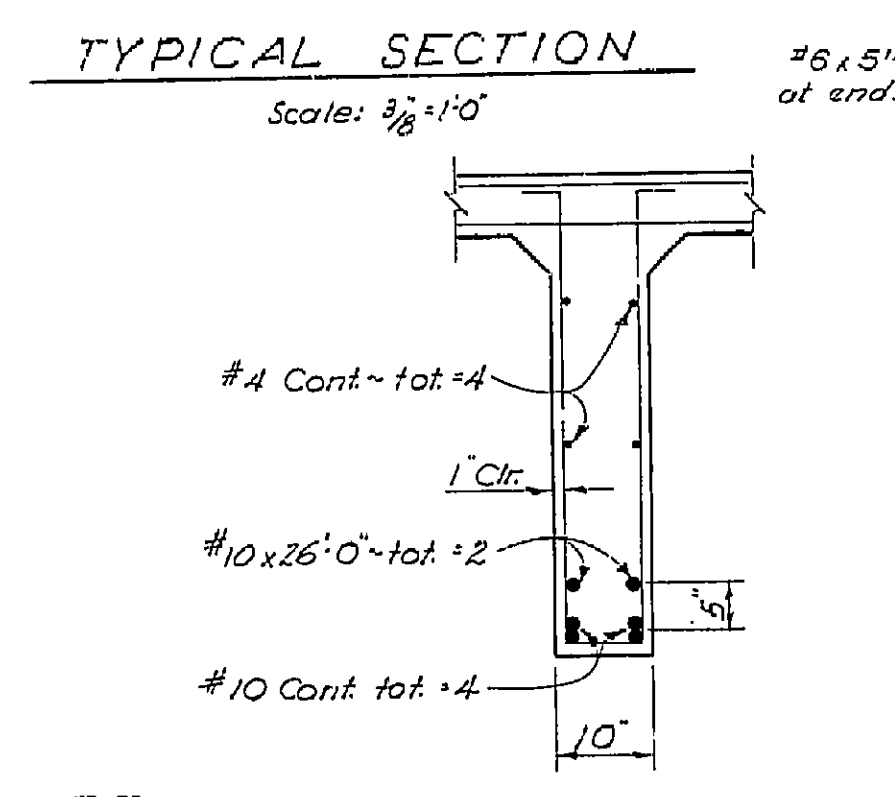
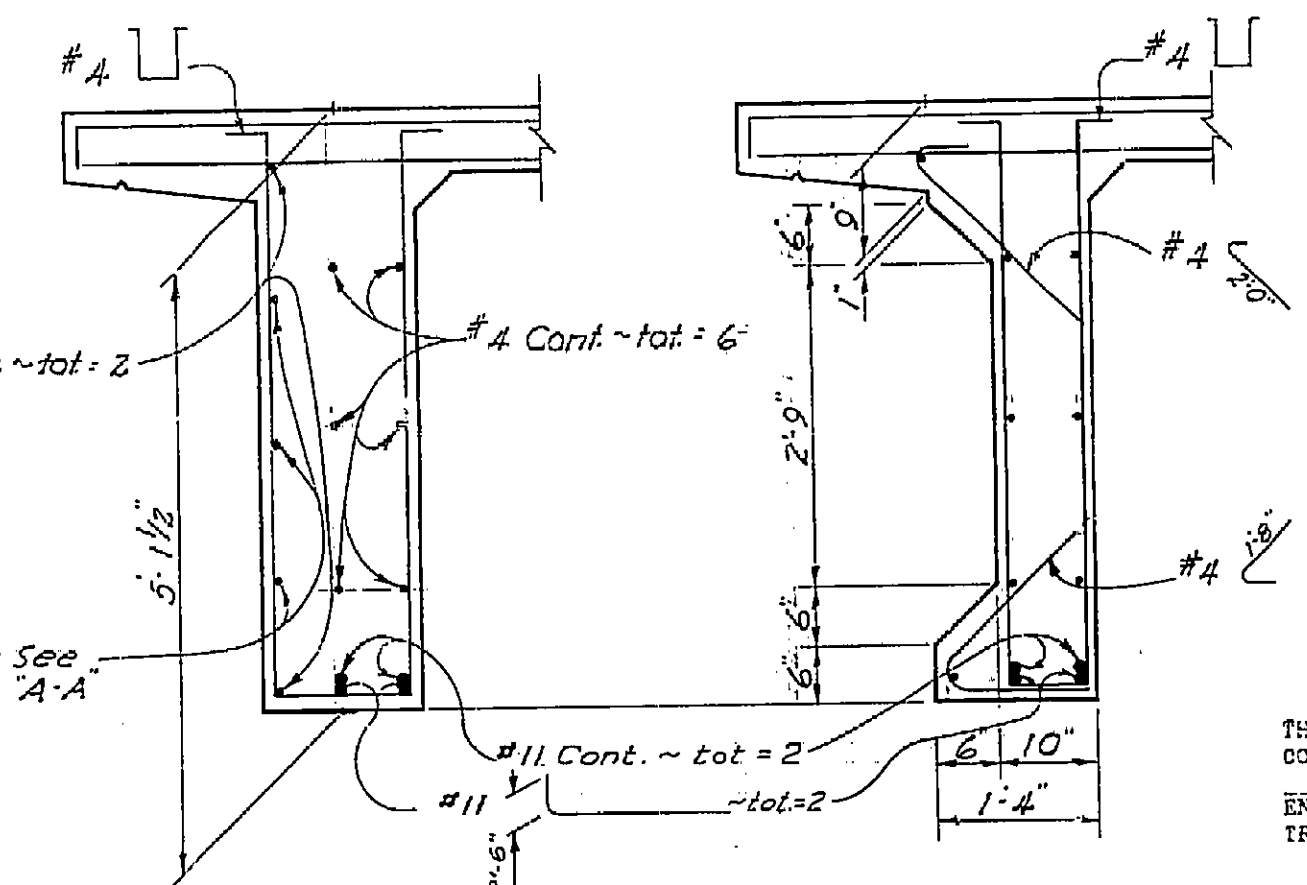
DATE APPROVED: Oct 21 1962



This alternative not used

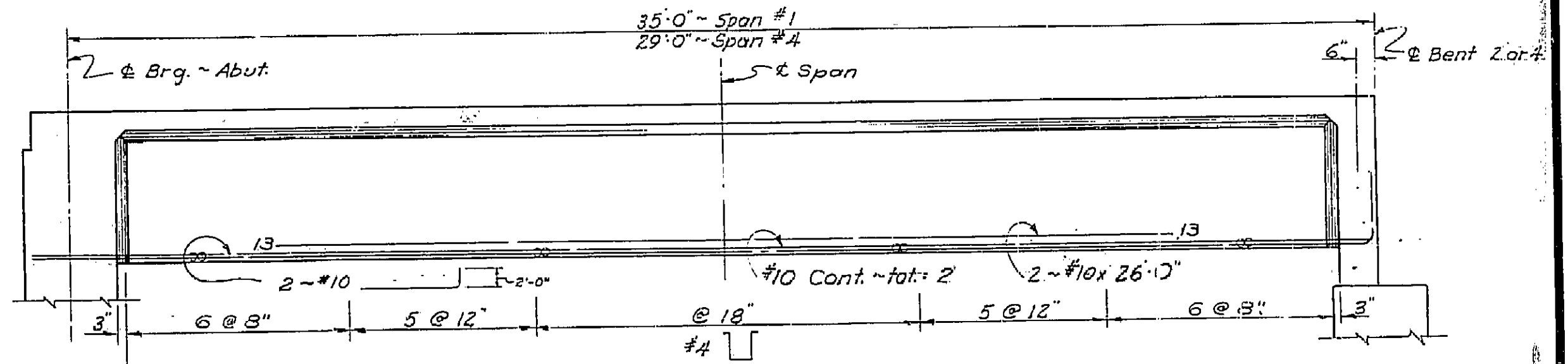
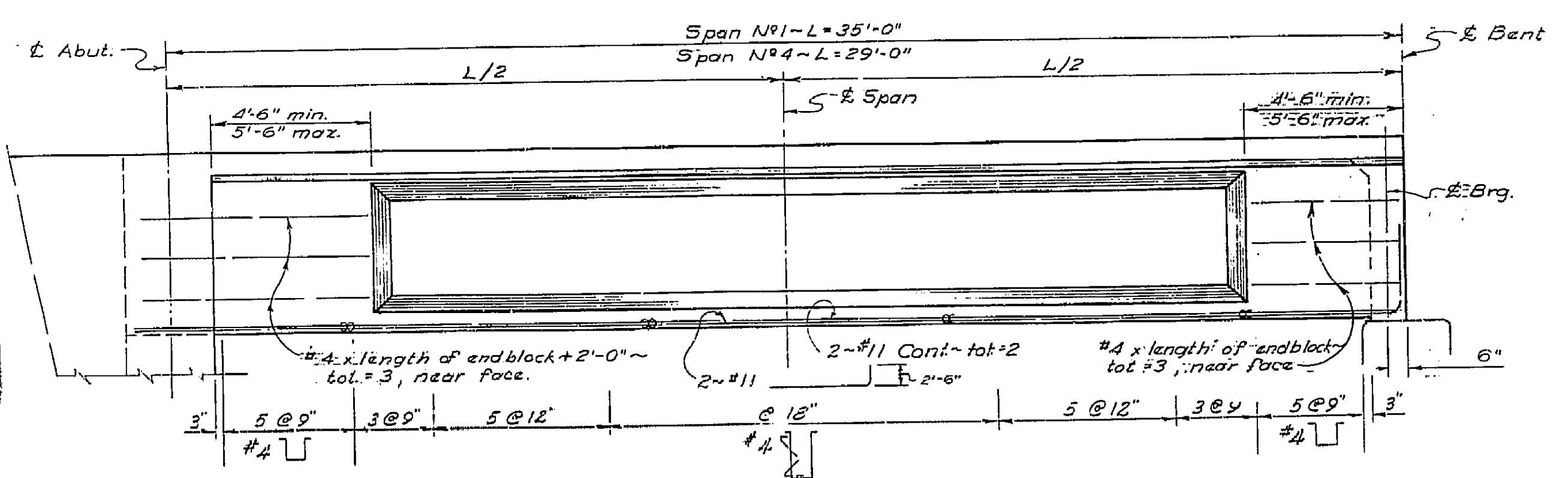


Note: Barrier Railing & Sidewalk not shown for details See Sht's Nos. 9, 12 & 13 For Precast Gir. Alternative, See Sht's Nos. 6 & 8



**AS BUILT PLANS**  
Contract No. 63-7V13CS8  
Date Completed \_\_\_\_\_  
Document No. 70002373

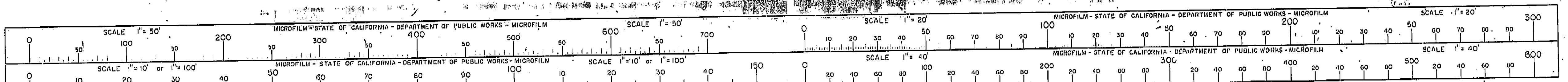
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-18-63 AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, B.C.E. TRACINGS CORRECTED BY: J.L.P. DATE: 10-28-63



Note: Numbers at ends of bars indicate distance in feet from  $\frac{1}{2}$  Span to end of bar.

BRIDGE DEPARTMENT <b>DESIGN SECTION 4</b>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor <u>R.E. Fisher</u>	DESIGN By <u>E.S. R.S.B. 11/61</u>	CHESEBRO ROAD OVERCROSSING	
DETAILS By <u>John Brown 11/61</u>	QUANTITIES By <u>John Brown 11/61</u>	GIRDER DETAILS SPANS 1 & 4 CAST-IN-PLACE ALTERNATIVE	
Disregard prints bearing earlier revision dates		SCALE AS SHOWN	BRIDGE 53-1678 FILE DRAWING C-531678-9
Preliminary Drawing No. <u>P. 531678-6</u>		REVISION DATES	

I HEREBY CERTIFY THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 1-11-72 SIGNATURE [Signature] TITLE [Title]



65

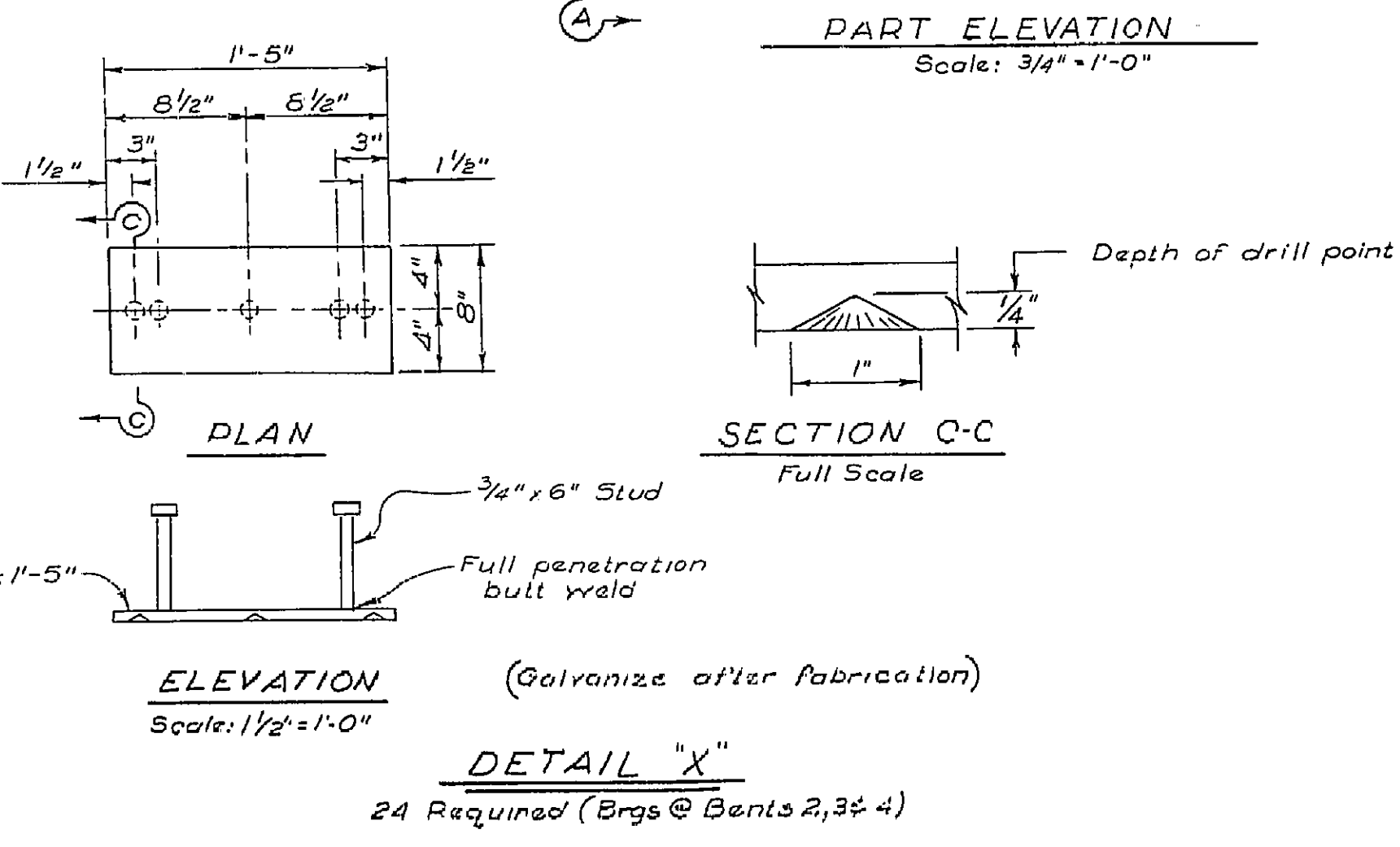
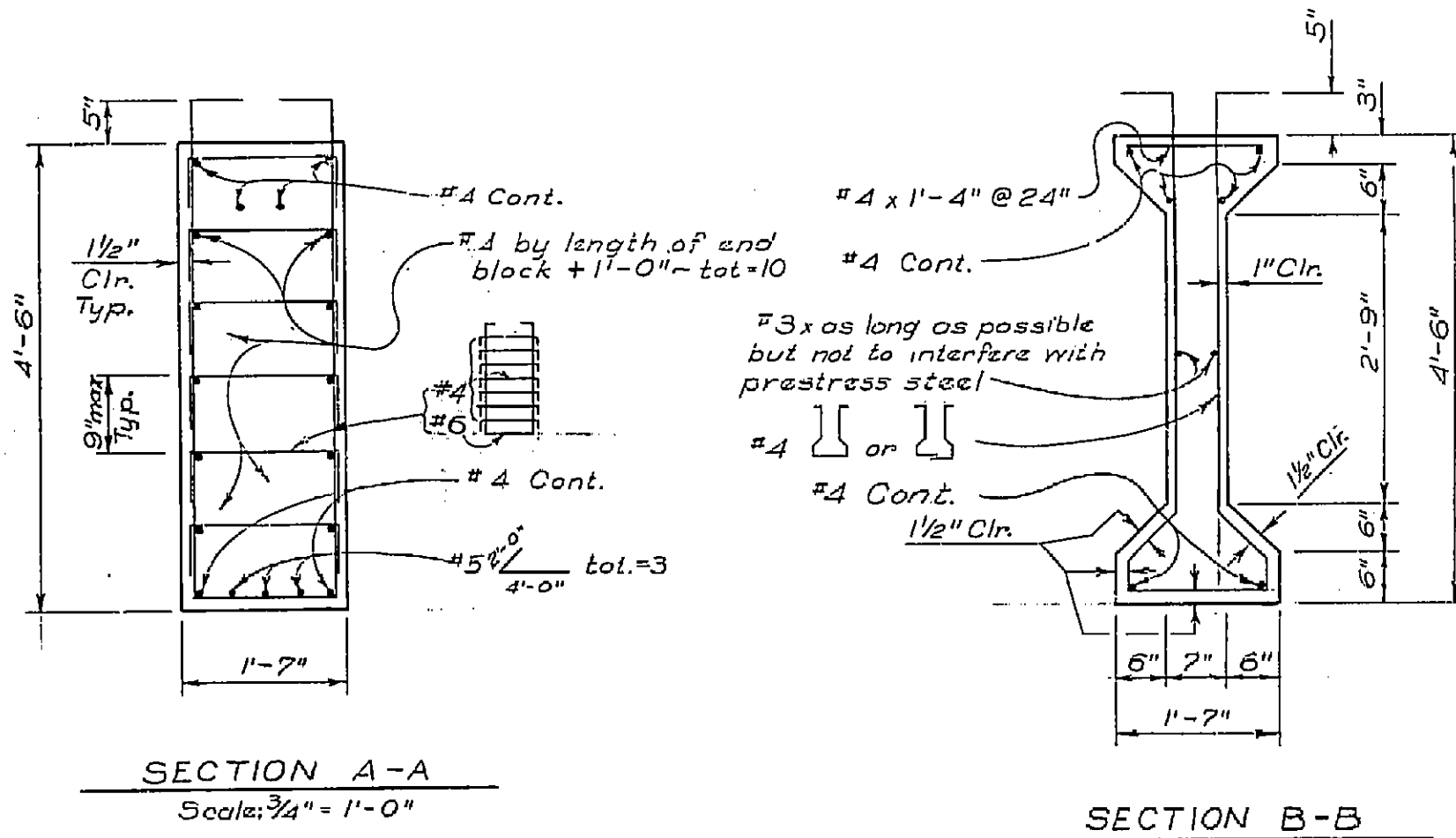
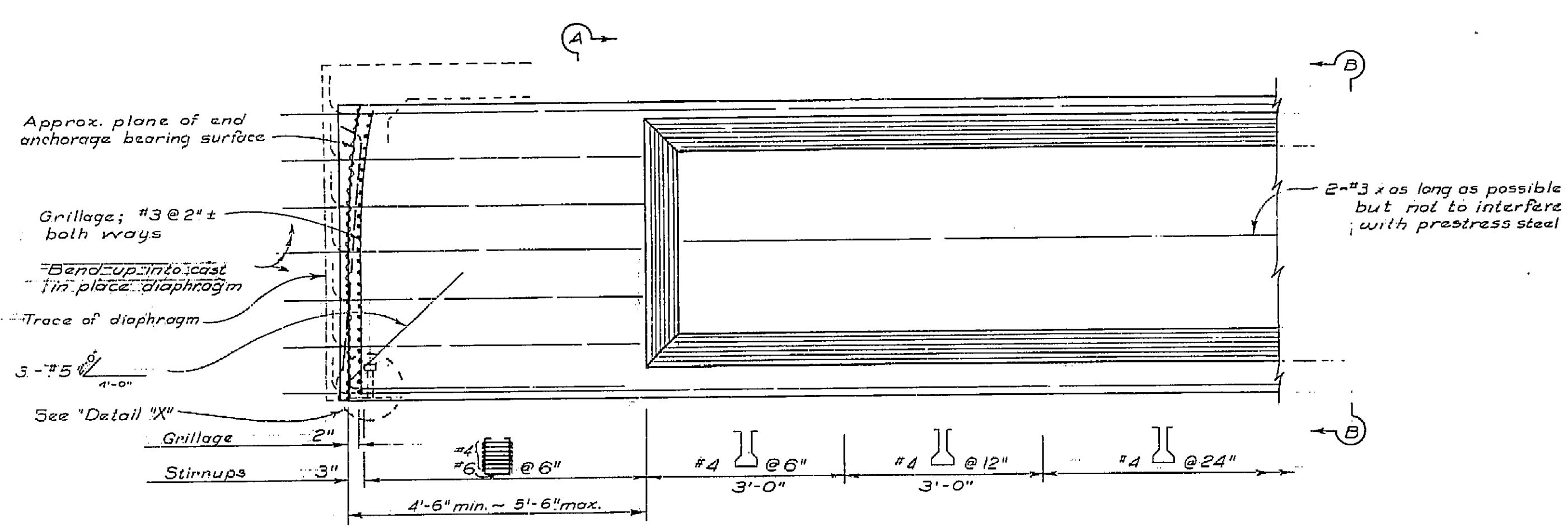
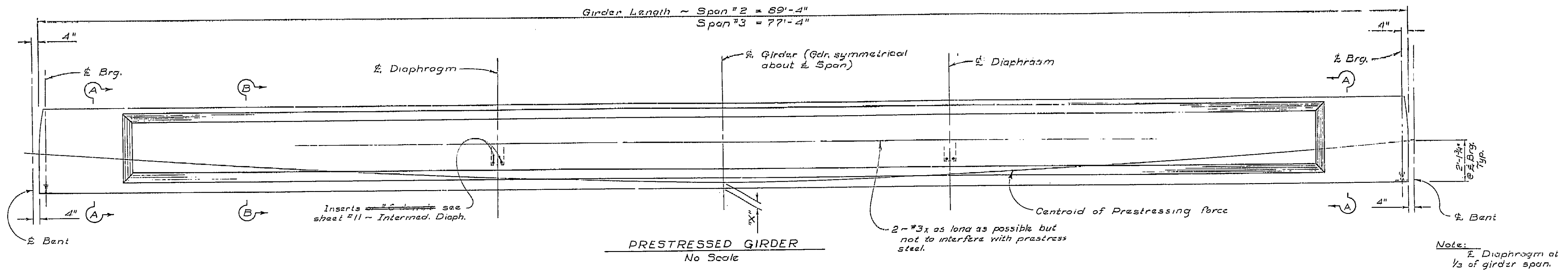


FED. ROAD DIV. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		30	31

VII LA 5

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL MILES
VII	LA	5		10	15

DATE APPROVED: 11-20-63



**PRESTRESSING NOTES**

WORKING FORCE (THE FORCE REMAINING AFTER ALL LOSSES, INCLUDING THOSE DUE TO CREEP AND SHRINKAGE OF CONCRETE AND CREEP OF STEEL HAVE OCCURRED) IS AS FOLLOWS:

	SPAN 2	SPAN 3
x = 3"	685,000	520,000
x = 4 1/2"	685,000	540,000
x = 6"	715,000	565,000

THE LOSS IN STRESS IN PRETENSIONING STEEL DUE TO SHRINKAGE AND CREEP SHALL BE ASSUMED TO BE 30,000 P.S.I.

THE LOSS IN STRESS IN THE POST-TENSIONED PRESTRESSING STEEL DUE TO SHRINKAGE AND CREEP AND SEQUENCE STRESSING SHALL BE ASSUMED TO BE 24,000 P.S.I. LBS.

IN ADDITION TO THE LOSS NOTED ABOVE, PROVISION SHALL BE MADE FOR LOSSES DUE TO FRICTION, ANCHORAGE TAKEUP, AND ANY OTHER LOSSES PECULIAR TO THE SYSTEM OF PRESTRESSING USED.

CONCRETE: F'c @ 28 DAYS: SPAN 2: 5,000 P.S.I. SPAN 3: 4,000 P.S.I.  
F'ci @ TIME OF STRESSING: 5,000 P.S.I. 4,000 P.S.I.

PRESTRESSING STEEL: SEE SPECIAL PROVISIONS

CAMBER: GIRDER SOFFIT TO BE CAST STRAIGHT SPAN 2: 1/2" SPAN 3: 1"

DEFLECTION @ 1/2 SPAN DUE TO CAST-IN-PLACE SLAB = 1/2" SPAN 2: 1" SPAN 3: 1"

SCREED LINES FOR CONSTRUCTION WILL BE DETERMINED BY THE ENGINEER.

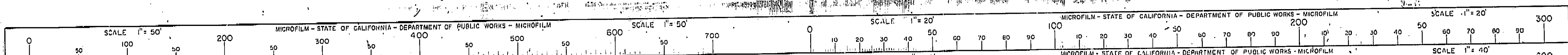
**AS BUILT PLANS**  
Contract No. 63-7V13CS8  
Date Completed  
Document No. 70002373

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-19-63 AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, B.O.R. TRACINGS CORRECTED BY M.J.R. DATE: 10-28-63

BRIDGE DEPARTMENT <b>DESIGN SECTION 4</b>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor: R.E. Felt	CHESEBRO ROAD OVERCROSSING		
DESIGN: by E.S. R.S.B. 11/61	GIRDER DETAILS - SPANS NO. 2 & 3		
DETAILS: by J.C. Bunnison	SCALE As Noted	BRIDGE 53-1673	FILE
QUANTITIES: by J.C. Bunnison 12/61	DRAWING C-531673-10		
PRELIMINARY DRAWING No. P-531673-7		REVISION DATED	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS

DATE 1-13-72 SIGNATURE: [Signature] TITLE: [Title]



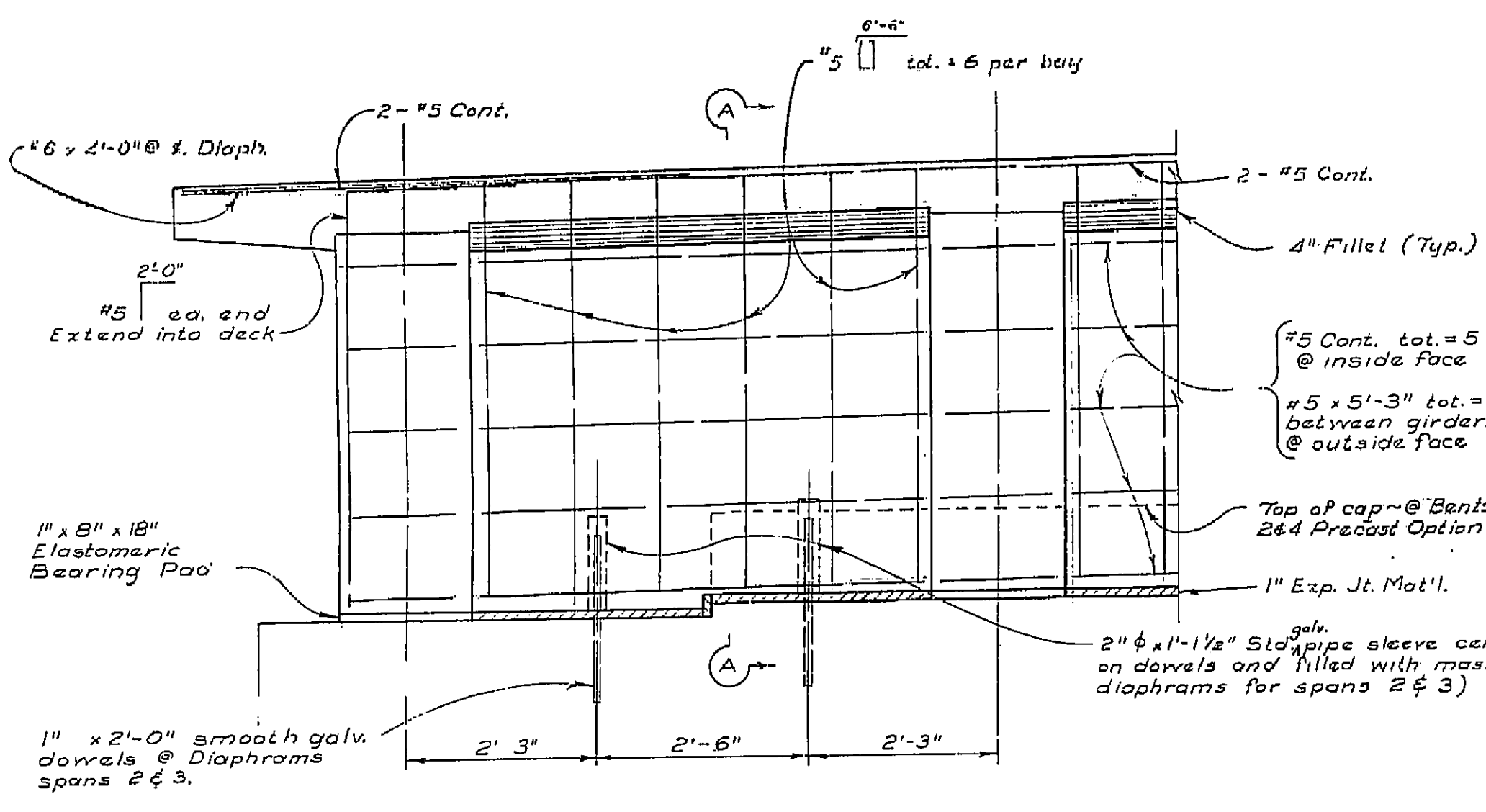
66

FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		67	71

DATE	COUNT	REVISION	BY	TOTAL SHEETS
11-17-63	1	1		15

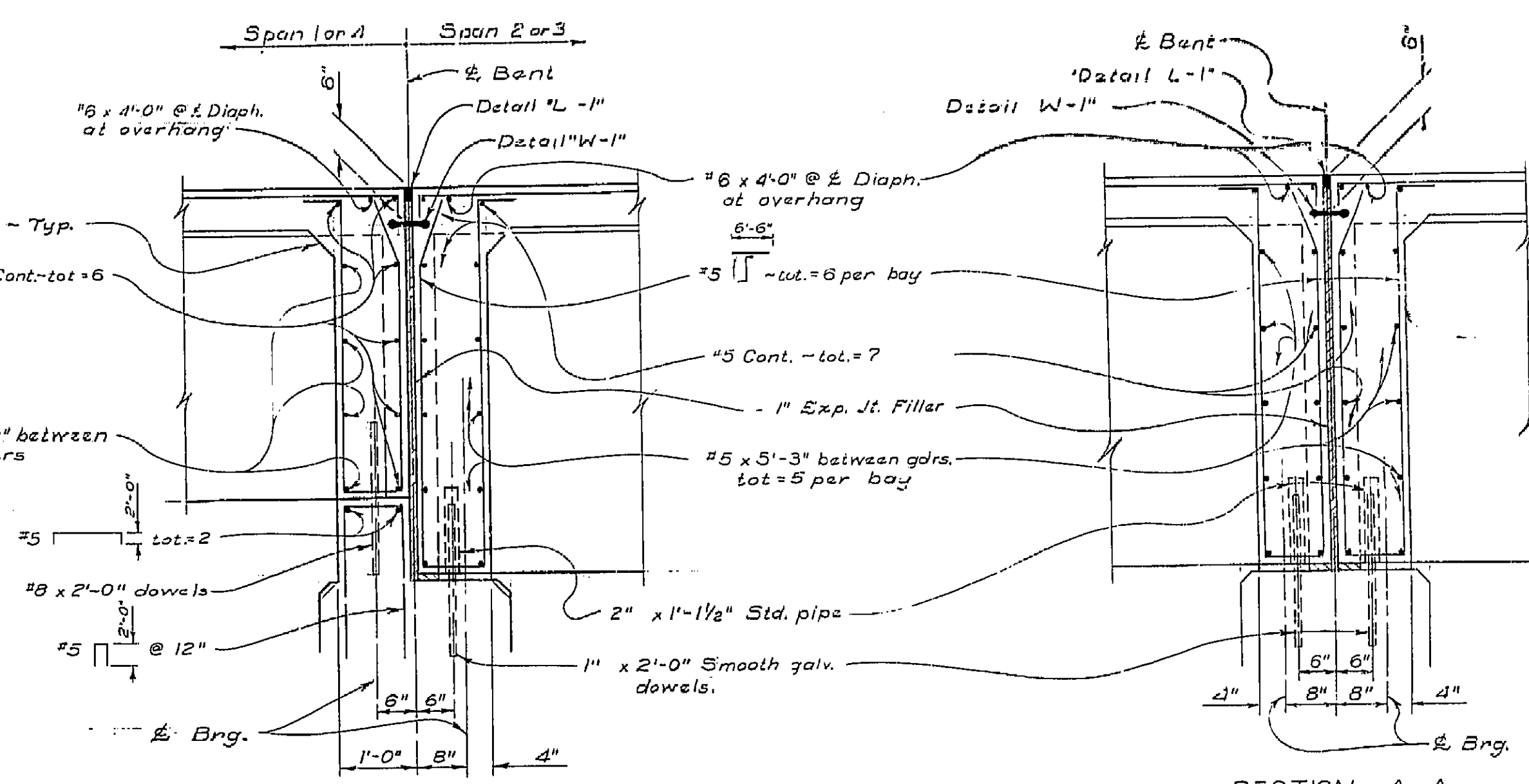
DATE APPROVED: October 9, 1962

VII LA 5



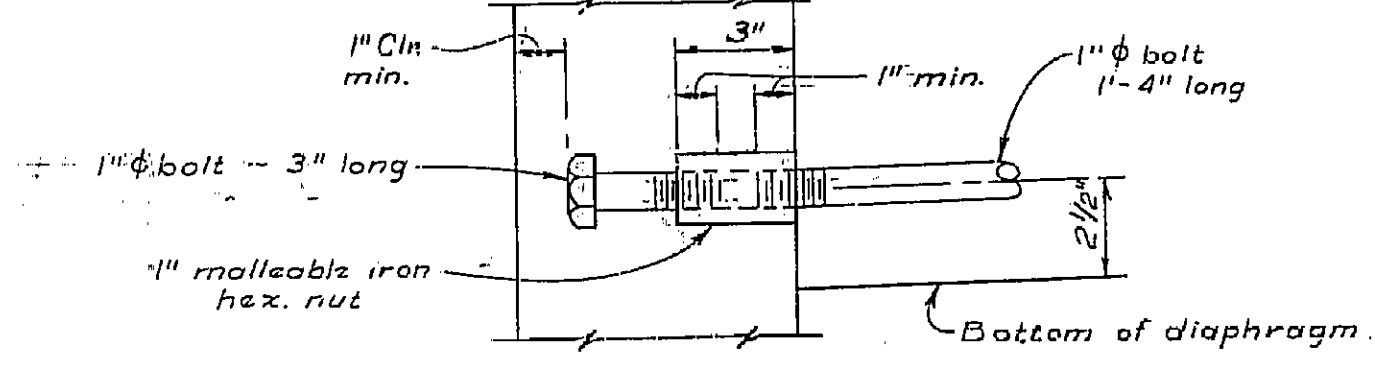
TYPICAL DIAPHRAGM AT BENT

Note: Refer to other sheets for details not shown.

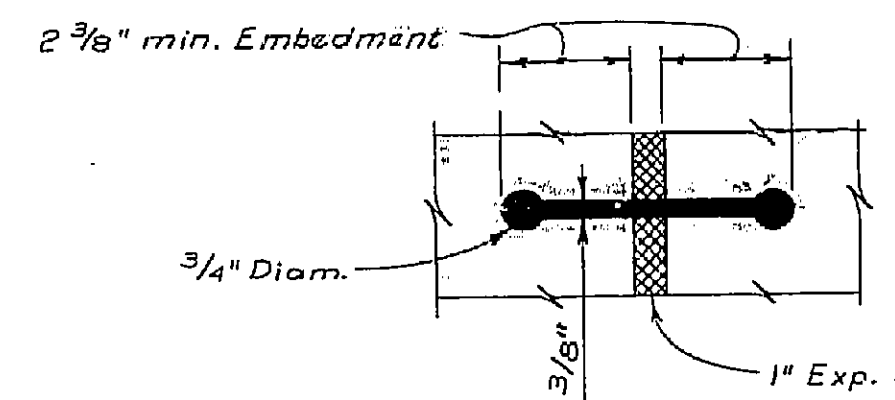


SECTION A-A BENTS 2&4 - PRECAST OPTION

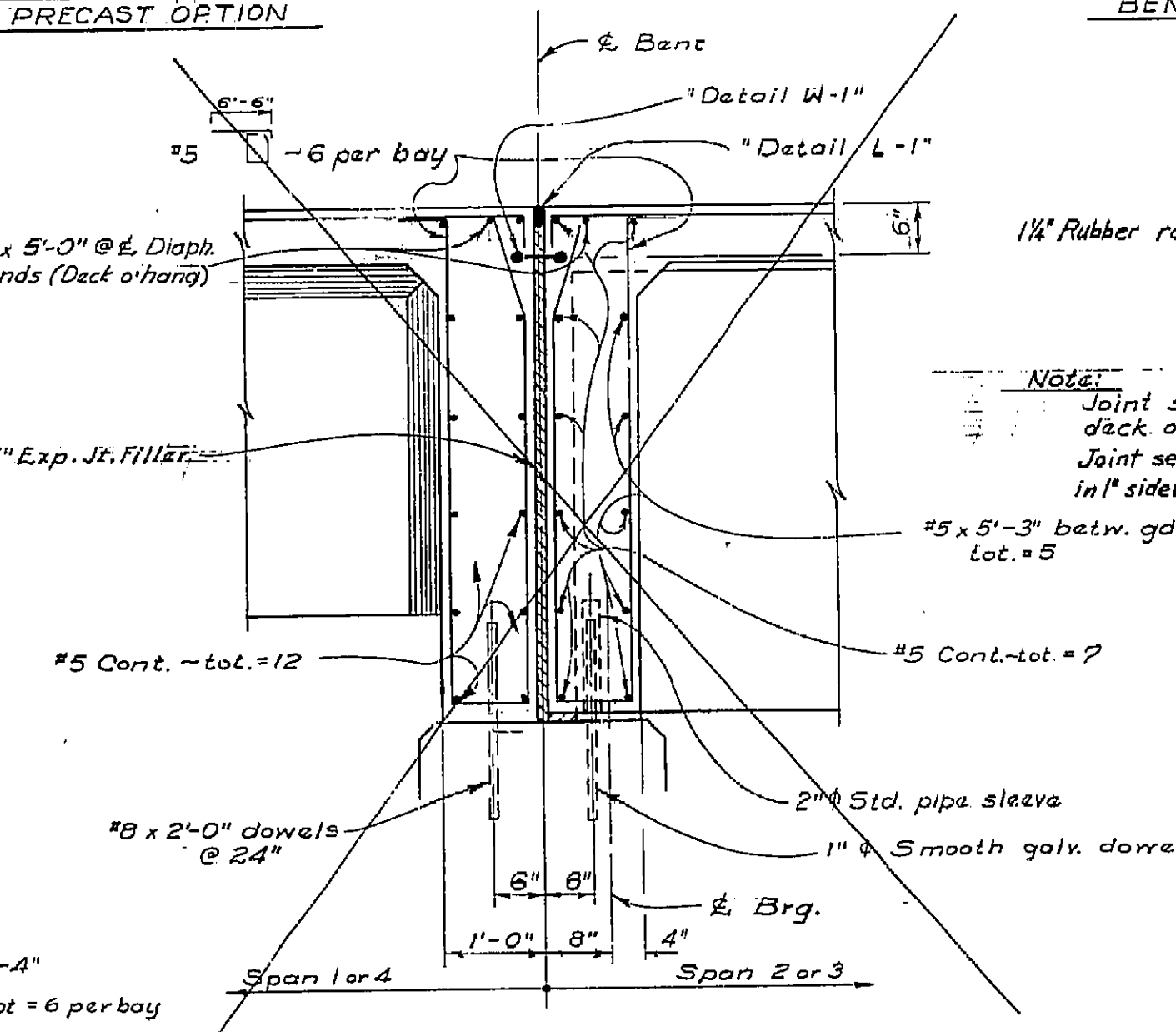
SECTION A-A BENT NO 3



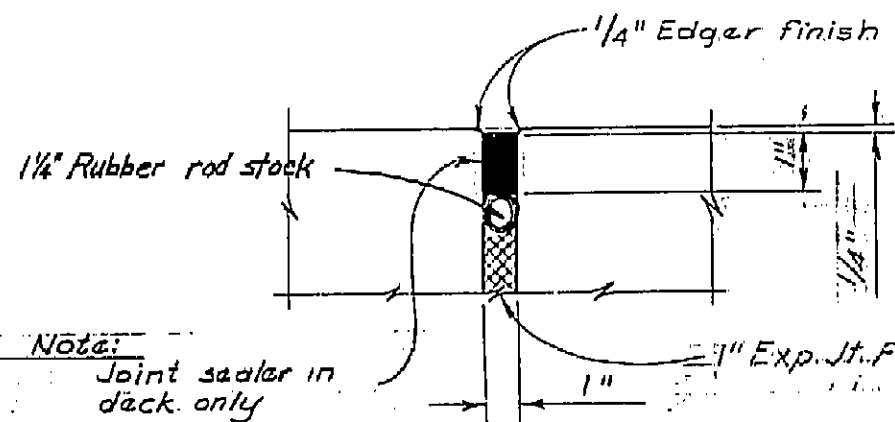
DETAIL "Y" - INSERT ASSEMBLY No Scale



DETAIL "W-1" No Scale



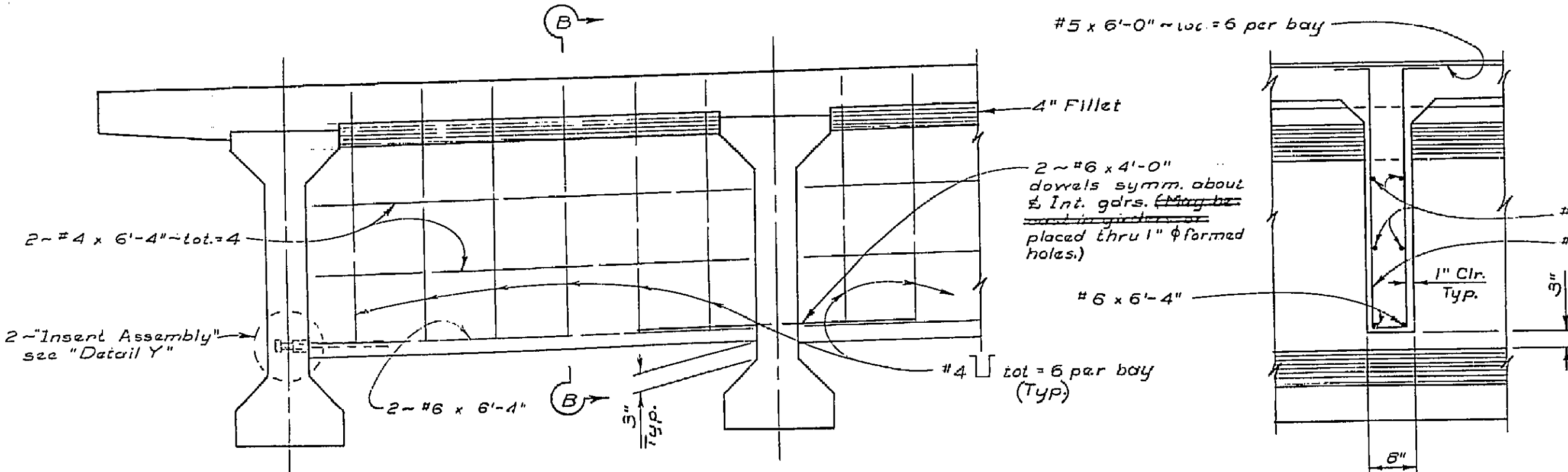
SECTION A-A BENTS 2&4 - CAST-IN-PLACE OPTION



DETAIL "L-1" No Scale

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE 'AS BUILT' PRINTS DATED 7-18-63 AS SUBMITTED BY RESIDENT ENGINEER Fred G. Michaels, R.O.B. TRACISION CONSULTING INC. DATE: 10-28-63

AS BUILT PLANS  
Contract No. 63-7VIRCSB  
Date Completed  
Document No. 70002373



TYPICAL INTERMEDIATE DIAPHRAGM

SECTION B-B

BRIDGE DEPARTMENT DESIGN SECTION 4	
Section Supervisor	R. F. Stollman
DESIGN	By F. J. S. R.S.B. 11/61
DETAILS	By R.S.B. 11/61
QUANTITIES	By R.S.B. 12/61

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
CHESEBRO ROAD OVERCROSSING	
DIAPHRAGM DETAILS	
3/4" x 1-0" EVO 202	BRIDGE 53-167B
SCALE 3/8" = 1'-0"	FILE
PRELIMINARY DRAWING NO. P.531678-8	DRAWING C-531678-11

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 1-13-72 SIGNATURE: Howard West TITLE: [illegible]

