

*California Department of Transportation
Division of Maintenance*

Structure Maintenance and Investigations

B_{RIDGE}

I_{NSPECTION}

R_{ECORDS}

I_{NFORMATION}

S_{YSTEM}

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	Ala	880	54 9	8	9

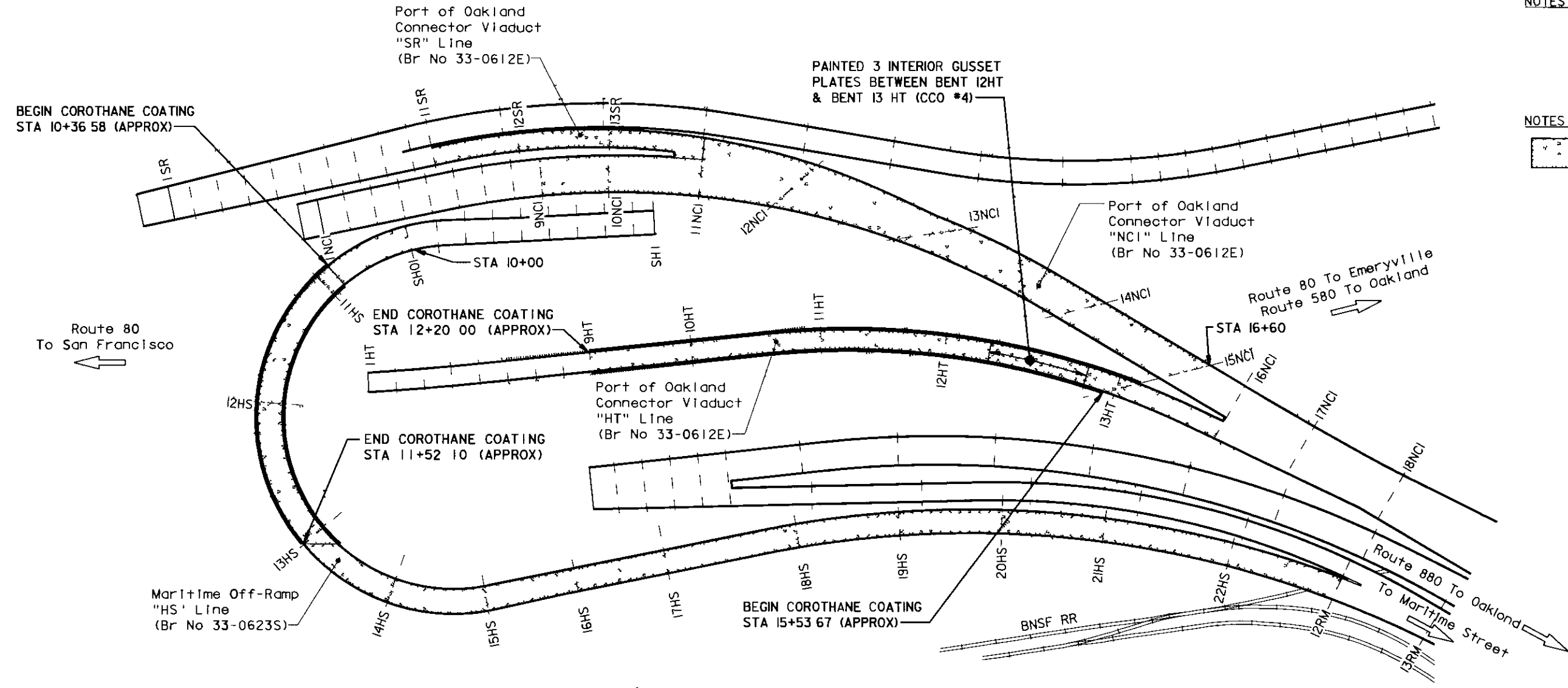
John C. Rogers 4-15-99
 REGISTERED ENGINEER - CIVIL
 6-14-99
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTES (APPLY TO ALL SHEETS)

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

NOTES (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and paint existing steel composite girders and steel box girders and steel barrier railing



PLAN
1/1000

AS BUILT

CORRECTIONS BY Chan Ha
 CONTRACT NO 04-292854
 DATE 1/14/00 (GFB 5-02)

QUANTITIES	LUMP SUM
CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM

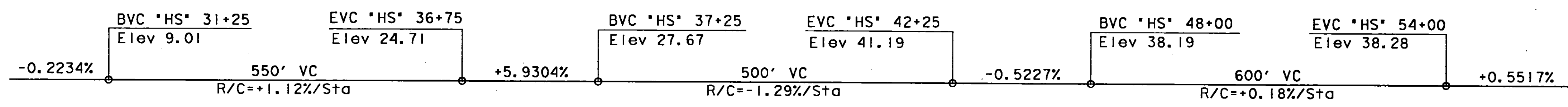
 DESIGN ENGINEER 4-15-99	DESIGN	BY Kwan Lam 6-98	CHECKED P J Whitfield 7-98	LOAD FACTOR DESIGN	LIVE LOADING HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO	VARIOUS	PORT OF OAKLAND CONNECTOR VIADUCT MARITIME OFF-RAMP GENERAL PLAN
	DETAILS	BY <i>EF Buttrill</i> 6-98	CHECKED P J Whitfield 7-98	LAYOUT	BY <i>EF Buttrill</i> 6-98		CHECKED P J Whitfield 7-98	KILOMETER POST	
	QUANTITIES	BY Kwan Lam 6-98	CHECKED P J Whitfield 7-98	SPECIFICATIONS	BY Simona C Pollaga	PLANS AND SPECS COMPARED	VARIES		

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS: 0 10 20 30 40 50 60 70 80 90 100
 CU 04285 EA 292851
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES P E L M N R Y S A E ONLY
 7/28/98 4/13/99
 USERNAME > JBTdwell
 maritime_gp.dgn
 SHEET 1 OF 2

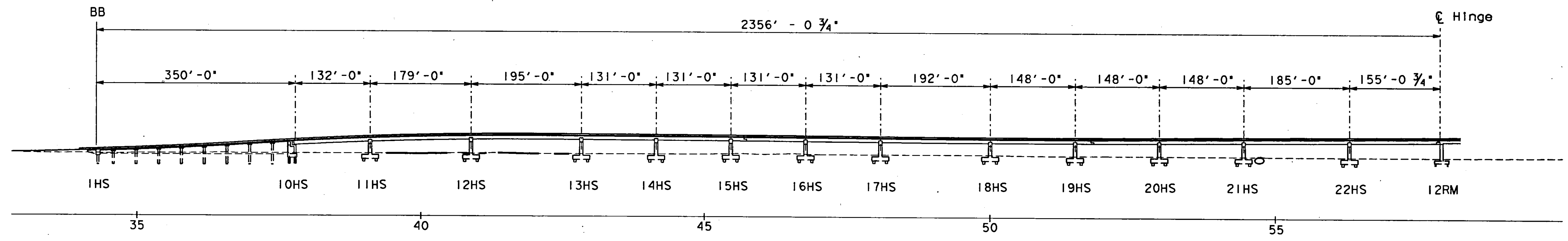
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880, 80	34.4 1.3/3.0	636	1412

Robert W. Myrdal
 REGISTERED CIVIL ENGINEER
 No. 10025
 Exp. 12/31/96
 CIVIL
 STATE OF CALIFORNIA

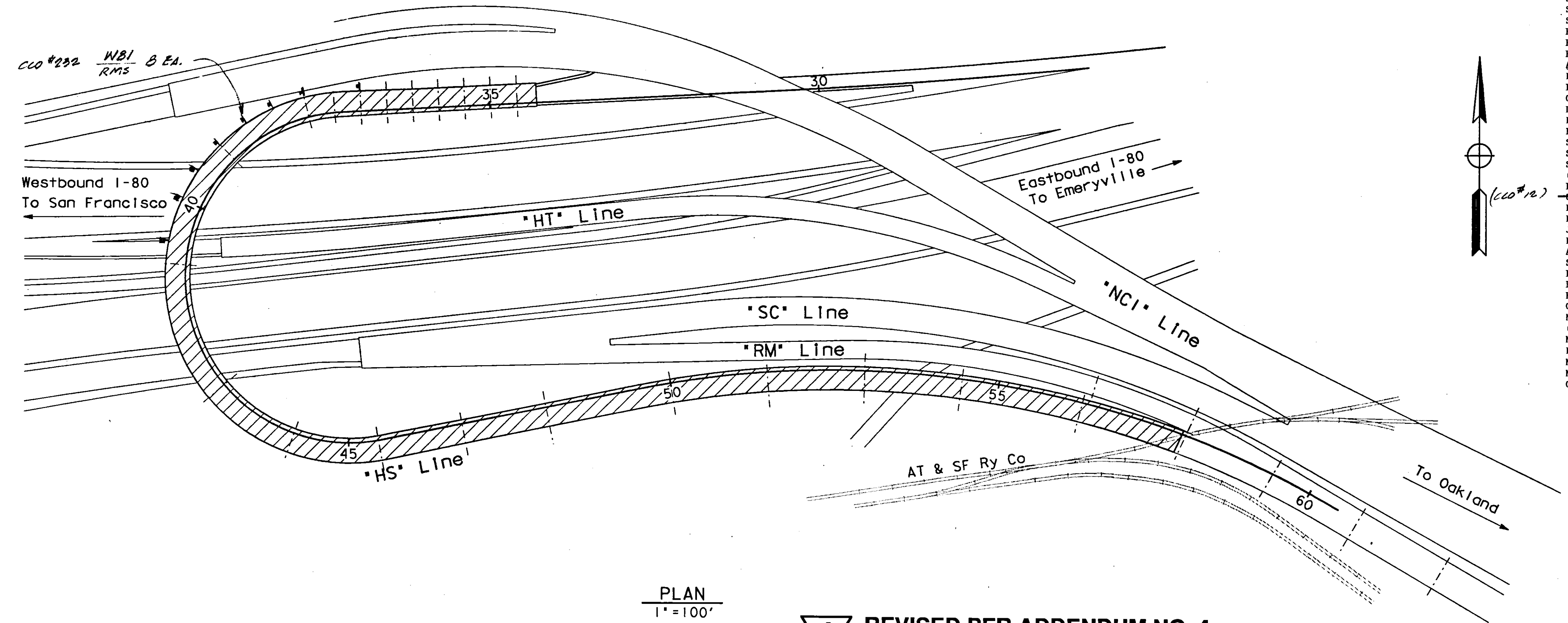
6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612



PROFILE GRADE
No Scale



DEVELOPED ELEVATION
1"=100'



01 - MARITIME OFF-RAMP (HS LINE)
QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	30	CY
STRUCTURE EXCAVATION (TYPE D)	2,660	CY
STRUCTURE EXCAVATION (TYPE H)	705	CY
STRUCTURE BACKFILL (BRIDGE)	1,050	CY
EPOXY ASPHALT CONCRETE AGGREGATE	845	TON
EPOXY ASPHALT BOND COAT	13,990	LB
EPOXY ASPHALT BINDER	108,000	LB
APPLY EPOXY BOND COAT	14,930	SQYD
PLACE EPOXY ASPHALT CONCRETE SURFACING	7,675	SQYD
FURNISH 42" CAST-IN-STEEL SHELL	10,650	LF
CONCRETE PILING	10,992	LF
DRIVE 42" CAST-IN-STEEL SHELL CONCRETE PILE	109	EA
PILE CORROSION PROTECTION	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	2,275	CY
STRUCTURAL CONCRETE, BRIDGE	1,815	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	50	CY
FRACTURED RIB TEXTURE (1-1/2")	825	SQFT
PTFE SPHERICAL BEARING ASSEMBLY	32	EA
PTFE SLIDING BEARING ASSEMBLY	4	EA
JOINT SEAL ASSEMBLY (MR 8")	130	LF
BAR REINFORCING STEEL (BRIDGE)	1,370,000	LB
ASPHALT MEMBRANE WATERPROOFING	625	SQFT
SEISMIC ENERGY ABSORBER	355	LF
FURNISH STRUCTURAL STEEL (BRIDGE)	7,860,000	LB
HS LINE		
ERECT STRUCTURAL STEEL (BRIDGE) HS LINE	7,860,000	LB
CLEAN AND PAINT STRUCTURAL STEEL	LUMP	SUM
MISCELLANEOUS METAL (RESTRAINER - ROD TYPE)	84,000	LB
MISCELLANEOUS METAL (BRIDGE)	772,000	LB
BRIDGE DECK DRAINAGE SYSTEM	49,200	LB
MISCELLANEOUS METAL (CATWALK)	900	LB
MISCELLANEOUS METAL (LADDER)	3,800	LB
CONCRETE BARRIER (TYPE 25)	700	LF

AS BUILT

CORRECTIONS BY R. ARKAWI
 CONTRACT NO. 04-192234
 DATE 9-19-97 10-18-98

4 REVISED PER ADDENDUM NO. 4
 DATED JANUARY 19, 1995

PLAN
1"=100'

<i>Antonio M. Marquez</i> A.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <u>6/7/93</u>	DESIGN BY J. RICHARDSON	CHECKED R. W. MYRDAL	LOAD FACTOR DESIGN	LIVE LOADING HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 33-623S	MARITIME OFF-RAMP GENERAL PLAN
	DETAILS BY J. RICHARDSON	CHECKED R. W. MYRDAL	LAYOUT BY J. RICHARDSON	CHECKED R. W. MYRDAL	PROJECT ENGINEER R. W. MYRDAL	POST MILE	
	QUANTITIES BY NA	CHECKED NA	SPECIFICATIONS BY P. DIERKOP	PLANS AND SPECS COMPARED M. O'SULLIVAN	CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	11/16/92 2/16/93 3/14/93 5/14/93	SHEET 2 OF 138

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125-138	Cypress Street Viaduct Realignment Seismic Investigation

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

LIVE LOADING: HS20-44 and alternative and permit design load

SEISMIC DESIGN: 1-880 Reconstruction Project Design Package (Revised 6-22-92) See Site Specific Response Curve below.

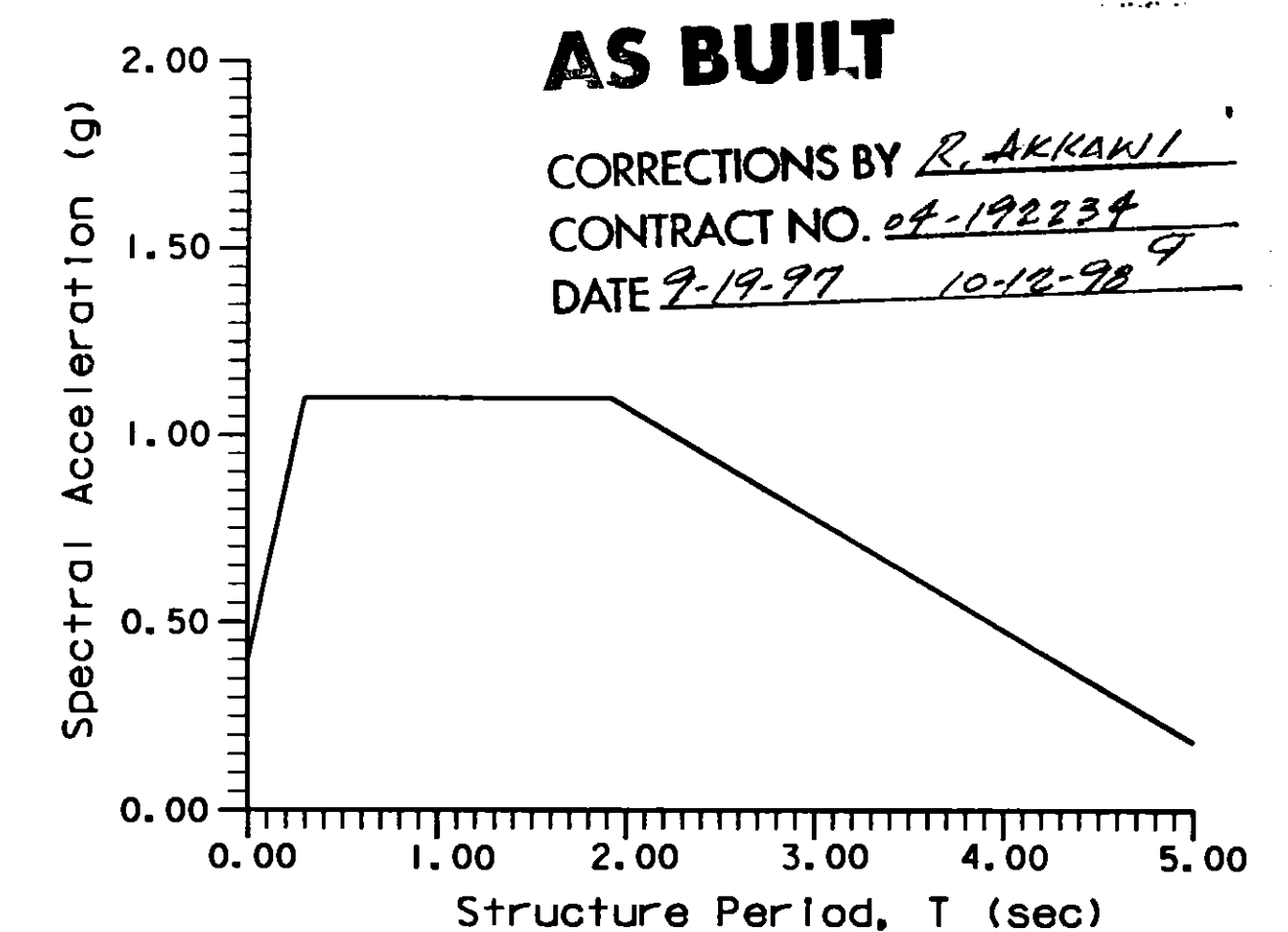
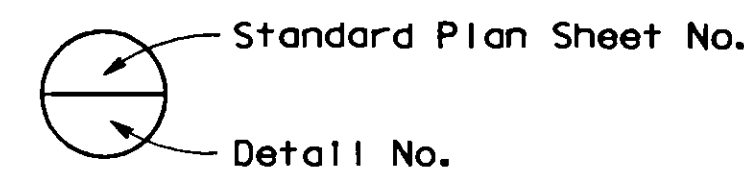
REINFORCED CONCRETE: $f_y = 66,000$ psi
 $f'_c = 3,250$ psi
 $n = 9$

STRUCTURAL STEEL: ASTM A709 Grade 50T2
For all Flange Plate in Tension Zones of Box Girders, Splice Plates, All Closed Rib Stiffeners, Bearing Diaphragms, Intermediate Diaphragms, Access Manhole Coaming Plates, Barrier, and Barrier Support Members.
ASTM A709 Grade 50
For Box Girders, Flat Plate Stiffeners, Bearing Stiffeners, and Shear Keys.
ASTM A709 Grade 36
For Bearing Shim Plates, Manhole Door Covers Including Stiffeners and Hinges and Latch Components, and Ladders.
ASTM A500 Grade B
For Structural Tubing
ASTM A668 Class G with Supplemental Charpy Requirement.
For heavy wall cylindrical forgings for shear keys.
ASTM A252 Grade 3 with a minimum yield strength of 45 ksi.
For Steel Piles.
ASTM A-325
For Structural Steel Connections. All bolt heads shall be located on the exterior face of all exterior steel plates including the top deck flange plate, bottom flange plate, exterior inclined web plates, and end diaphragm plates.
ASTM A-449
For Masonry Plate Anchor Bolts embedded in concrete.
ASTM A-307
For miscellaneous Anchor Bolts unless noted otherwise.

WELDING: Welding sequence shall be shown on shop drawings. All field splices shall be fitted and matched in shop. Location of erection bolts and clip angles shall be shown on the working drawings and approved by the engineer. Erection bolts and clip angles shall not be attached to tension members. Erection bolts and clip angles shall be removed and repaired with repair method subject to prior approval by the engineer.

STANDARD PLANS DATED JULY, 1992

GENERAL ROAD WORK	
A62C	Limits of Payment for Excavation and Backfill - Bridge
BRIDGE	
B0-1	Bridge Details
B0-3	Bridge Details
B0-5	Bridge Details
B0-13	Bridge Details
B7-6	Deck Drains - Types D-1 and D-2
B11-53	Concrete Barrier - Type 25



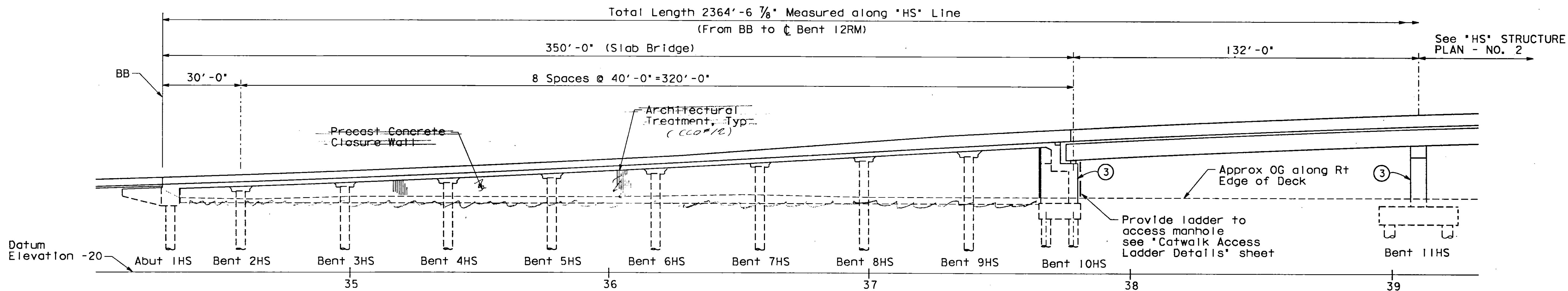
SITE SPECIFIC RESPONSE CURVE

 A.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE 9/14/93	DESIGN	BY J. RICHARDSON	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	33-623S	MARITIME OFF-RAMP INDEX TO PLANS					
	DETAILS	BY S.H. LEE	CHECKED R. RUDOLPH		PROJECT ENGINEER	POST MILE						
	QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN	CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES → <table border="1"> <tr> <th>REVISION DATES (PRELIMINARY STAGE ONLY)</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>9/10/92 11/16/92 2/26/93 3/31/93 5/14/93 6/11/93 7/15/93 8/11/93 9/10/93</td> <td>3</td> <td>138</td> </tr> </table>		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF	9/10/92 11/16/92 2/26/93 3/31/93 5/14/93 6/11/93 7/15/93 8/11/93 9/10/93	3	138
REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF										
9/10/92 11/16/92 2/26/93 3/31/93 5/14/93 6/11/93 7/15/93 8/11/93 9/10/93	3	138										

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880, 80	34.4 1.3/3.0	638	1412

REGISTERED CIVIL ENGINEER
 6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612

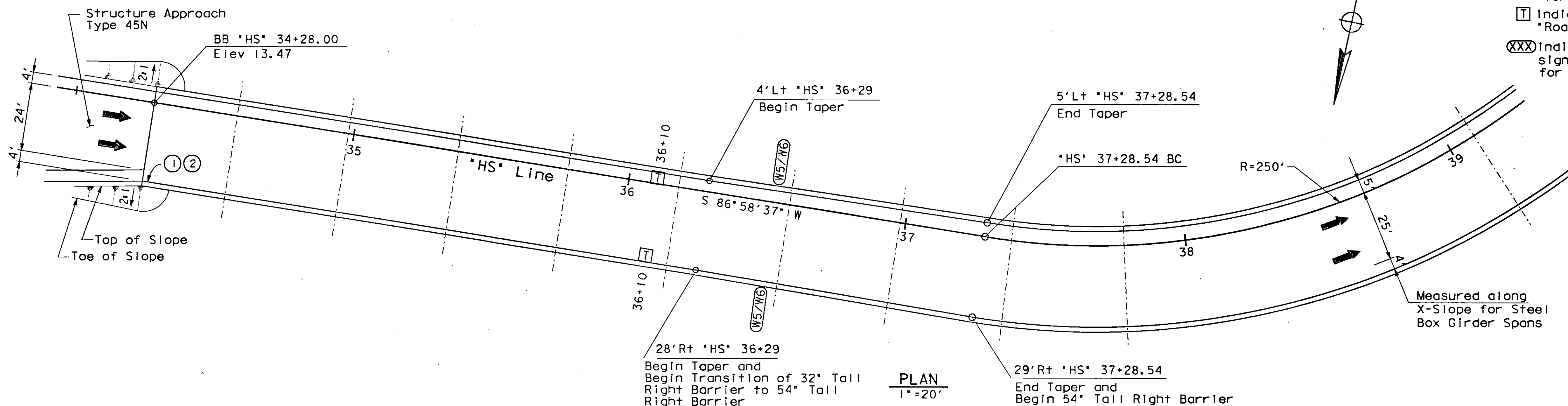
REGISTERED PROFESSIONAL ENGINEER
 MICHEL BENOIT
 No. C37895
 Exp. 3/3/97
 CIVIL
 STATE OF CALIFORNIA



DEVELOPED ELEVATION
1" = 20'

NOTES:

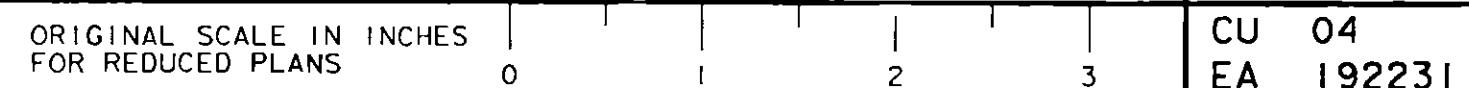
- ① Paint "Maritime Off-Ramp"
- ② Paint "Bridge NO. 33-623S"
- ③ Paint Abut or Bent Number
- ⊗ Point of Minimum Vertical Clearance
- T Indicates call box location, see "Roadway Plans" for details.
- XXX Indicates rail mounted roadway sign location, see "Roadway Plans" for details.



AS BUILT

CORRECTIONS BY R. AKKAWI
 CONTRACT NO. 04-192234
 DATE 9-19-97 10-12-98

A.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE 6/7/93	DESIGN BY M. BENOIT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-623S	MARITIME OFF-RAMP STRUCTURE PLAN - NO. 1
	DETAILS BY O. DRIS	CHECKED R. RUDOLPH			POST MILE	
	QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN				

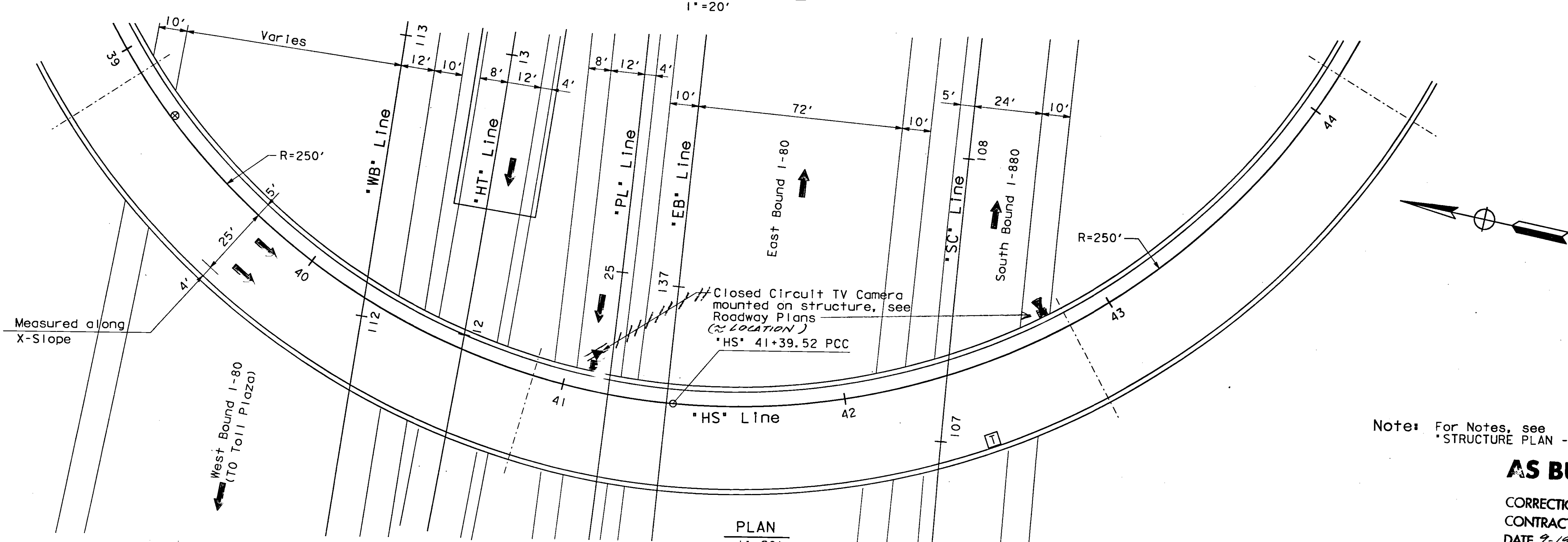
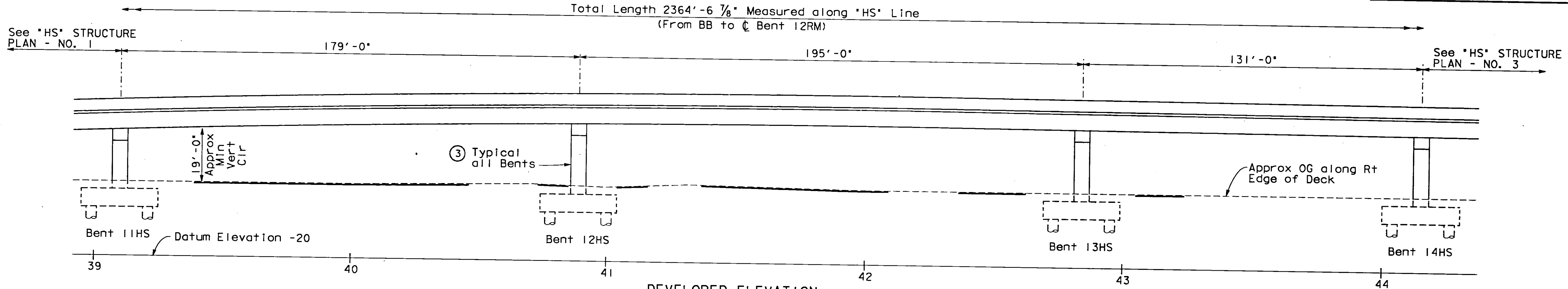


DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	9/18/92 11/16/92 2/26/93 3/14/93 5/7/93 6/1/93	4	138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4 1.3/3.0	639	1412

J. Michel Benoit
 REGISTERED CIVIL ENGINEER
 No. C37895
 Exp. 3/31/97
 CIVIL
 STATE OF CALIFORNIA

6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612



Note: For Notes, see "STRUCTURE PLAN - No. 1".

AS BUILT

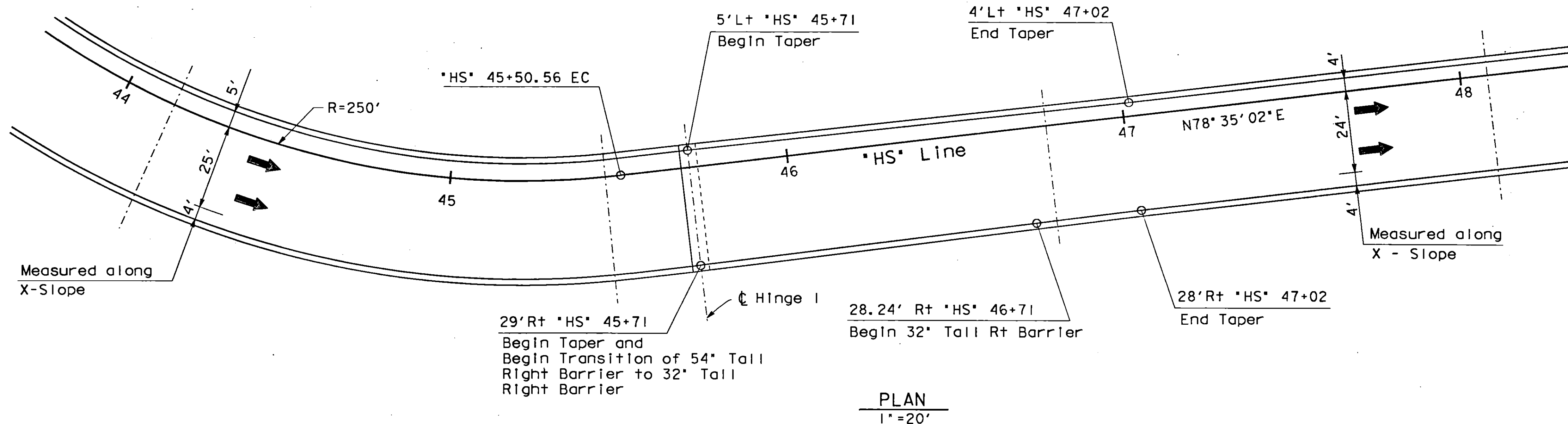
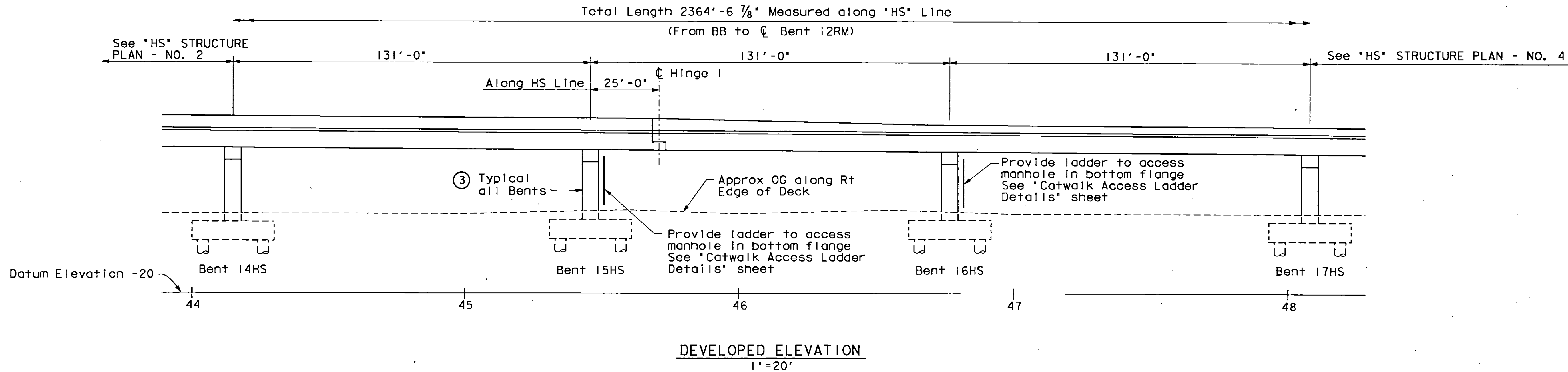
CORRECTIONS BY *R. AKKAWI*
 CONTRACT NO. *04-192234*
 DATE *7-19-97* *10-12-98*

<i>A.M. MARQUEZ</i> DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN	BY M. BENOIT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO.	33-623S	MARITIME OFF-RAMP STRUCTURE PLAN - NO. 2
	DETAILS	BY O. DRIS	CHECKED R. RUDOLPH			POST MILE		
	QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN			CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	SHEET OF		5	138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4 1.3/3.0	640	1412

J. Michel Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612

REGISTERED PROFESSIONAL ENGINEER
J. MICHEL BENOIT
No. C37895
Exp. 3/3/97
CIVIL
STATE OF CALIFORNIA

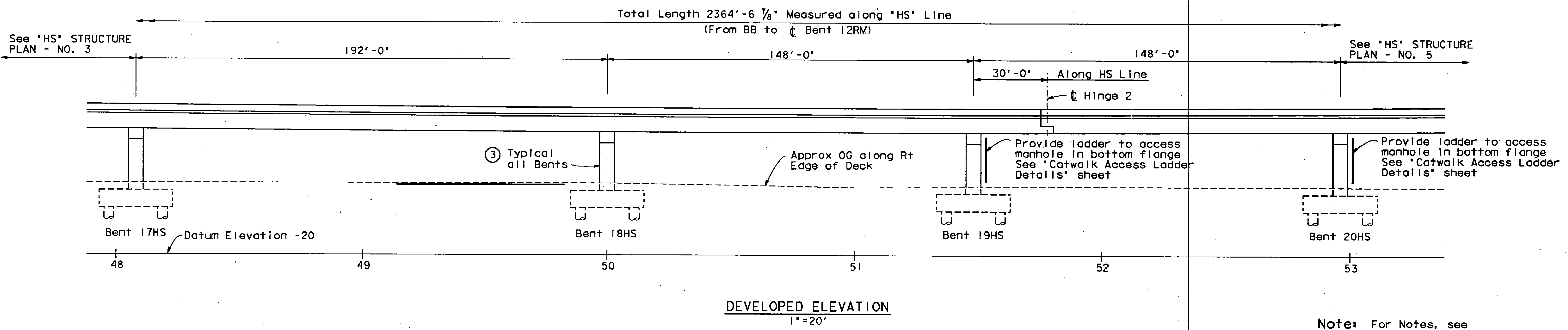


NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY *R. AKRAWI*
CONTRACT NO. *04-192231*
DATE *9-12-97* *10-12-98*

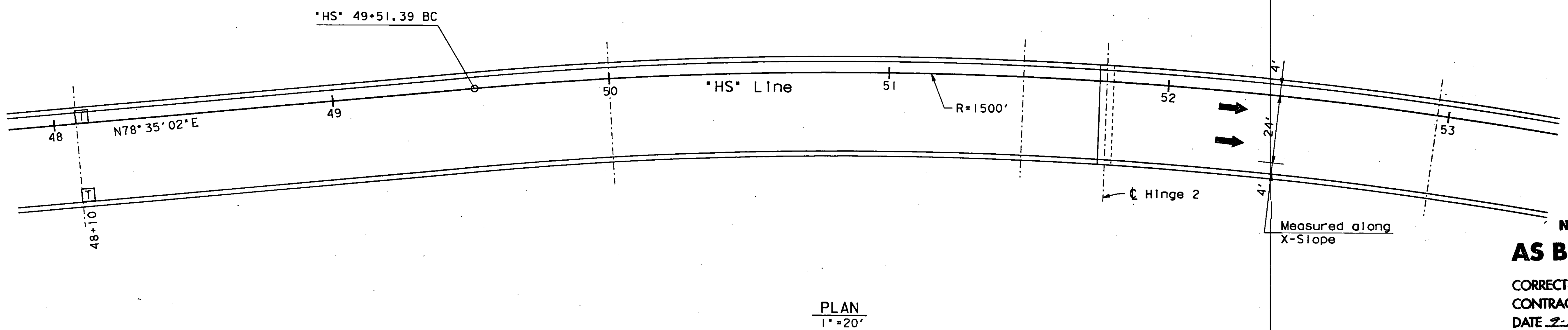
Note: For Notes, see 'STRUCTURE PLAN - No. 1'.

<i>A.M.M.</i> A.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN	BY M. BENOIT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO.	33-623S	STRUCTURE PLAN - NO. 3	
	DETAILS	BY O. DRIS	CHECKED R. RUDOLPH			POST MILE			
	QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 9/18/92 11/16/92 2/26/93 3/24/93 5/14/93 6/1/93	SHEET 6 OF 138

Note: For Notes, see
STRUCTURE PLAN - No. 1.



Note: For Notes, see
STRUCTURE PLAN - No. 1.



PLAN
1" = 20'

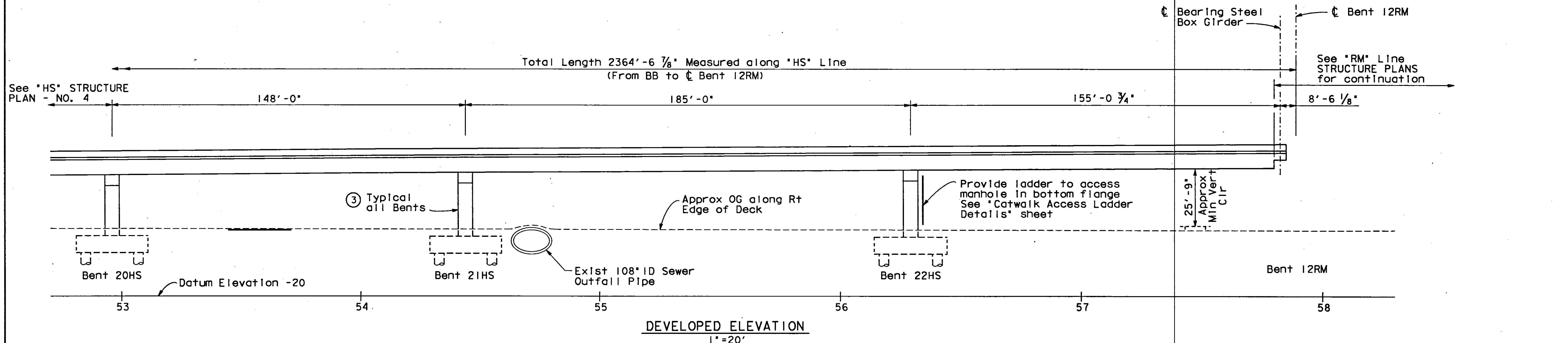
 DESIGN OVERSIGHT SIGNOFF DATE 6/7/93	DESIGN	BY M. BENOIT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO.	33-623S	MARITIME OFF-RAMP STRUCTURE PLAN - NO. 4	
	DETAILS	BY O. DRIS	CHECKED R. RUDOLPH			POST MILE			
	QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY) 3/10/92 1/17/92 2/26/93 3/11/93 5/14/93 6/1/93	SHEET 7 OF 138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880, 80	34.4 1.3/3.0	642	1412

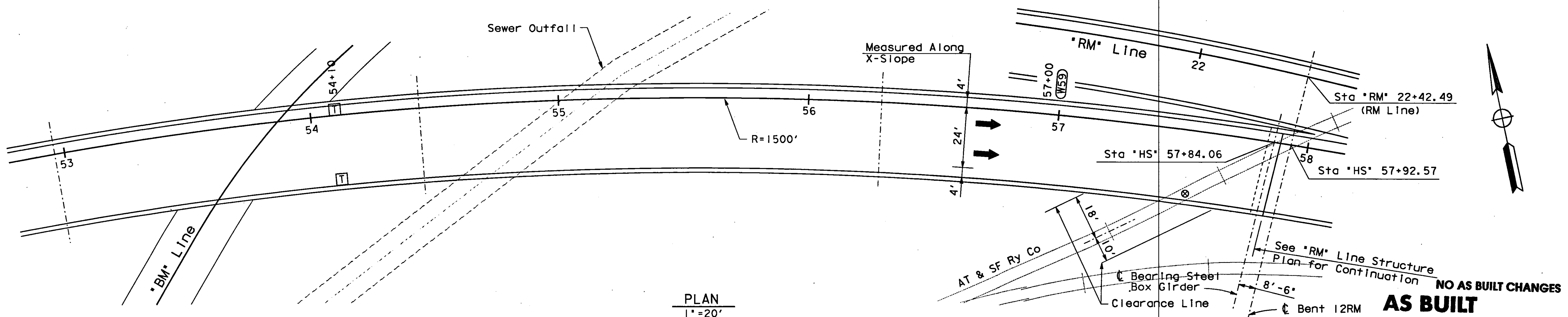
J. Benoit
REGISTERED CIVIL ENGINEER

6-13-94
PLANS APPROVAL DATE

TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612



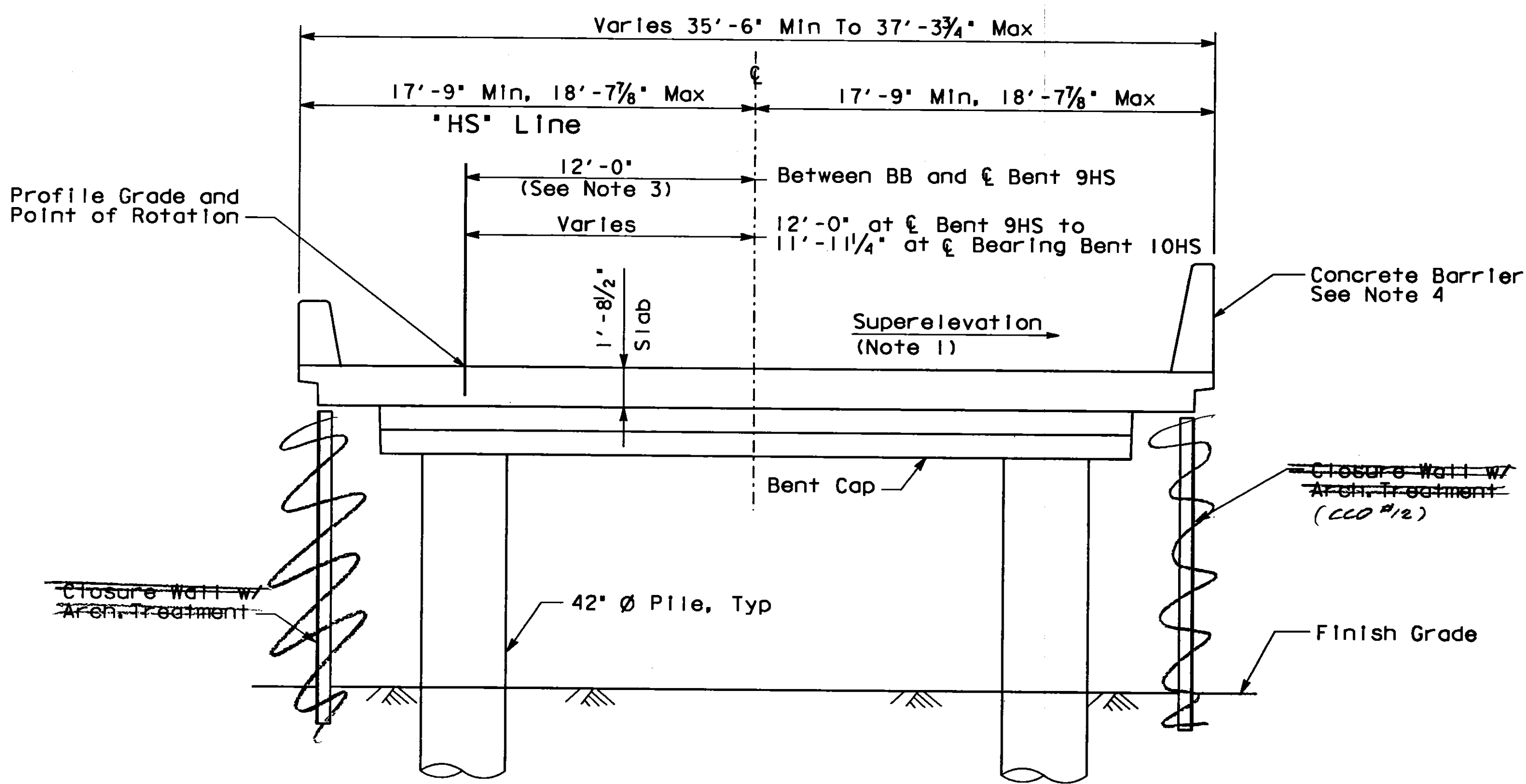
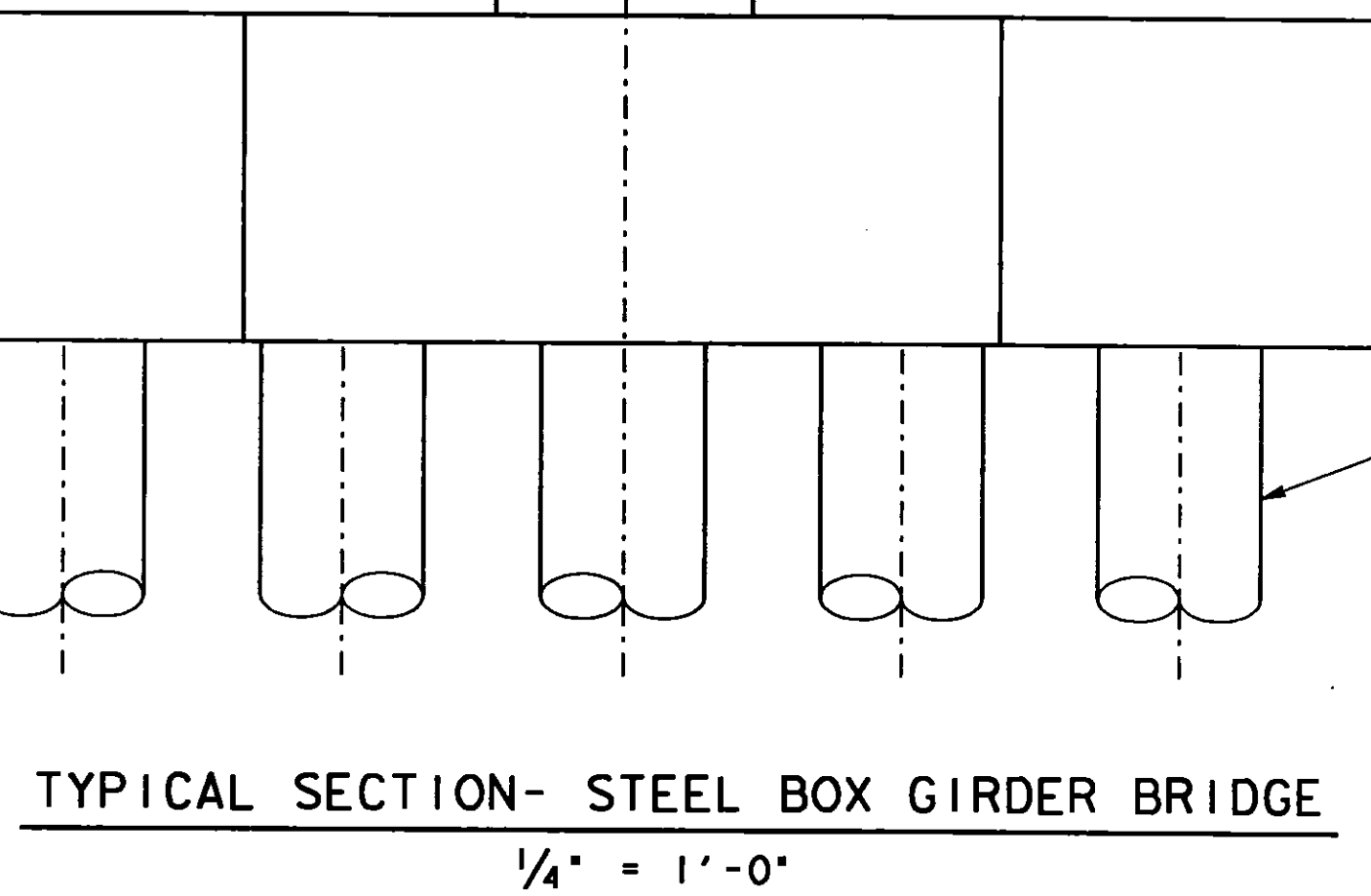
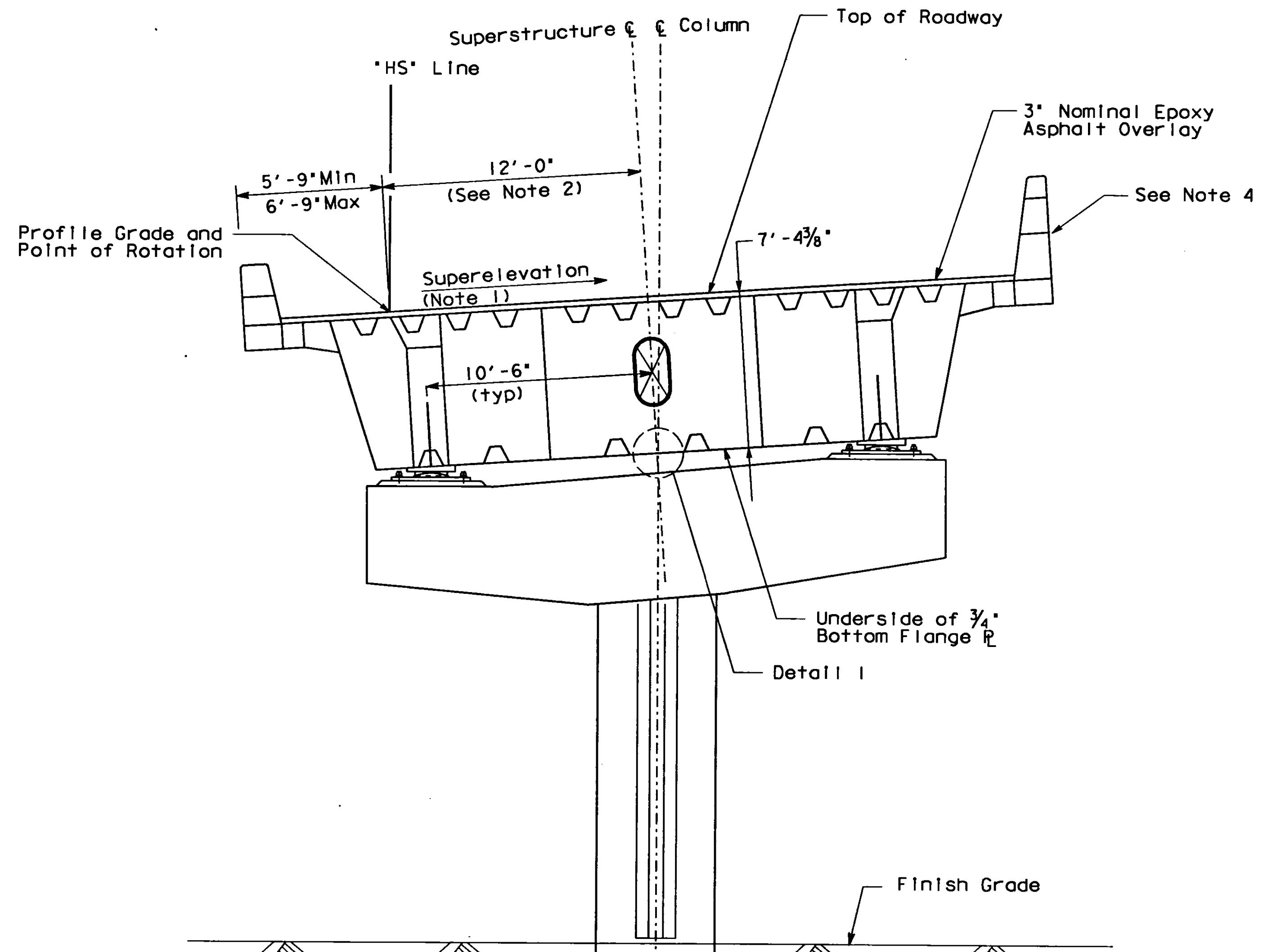
Note: For Notes, see "STRUCTURE PLAN - No. 1".



NO AS BUILT CHANGES AS BUILT

CORRECTIONS BY *R. ARMANI*
CONTRACT NO. *07-192234*
DATE *7-19-97 10-12-98*

<i>A.M.M. MARQUEZ</i> DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN BY M. BENOIT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-6235	MARITIME OFF-RAMP STRUCTURE PLAN - NO. 5
	DETAILS BY O. DRIS	CHECKED R. RUDOLPH			POST MILE	
	QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN		CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 9/18/92 11/16/92 2/26/93 3/24/93 5/14/93 6/11/93
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3			SHEET 8 OF 138



TYPICAL SECTION- STEEL BOX GIRDER BRIDGE
1/4" = 1'-0"

TYPICAL SECTION- SLAB BRIDGE
1/4" = 1'-0"

DETAIL I
No Scale

AS BUILT

CORRECTIONS BY R. AKKAWI
CONTRACT NO. 04-192234
DATE 9-19-97 10-12-98

- Notes:
1. Superelevation Varies. See Superelevation Diagram On "Deck Contours - No. 1".
 2. Dimension is parallel to roadway surface and shall be maintained parallel to roadway surface for full length of steel bridge.
 3. Dimension is parallel to horizontal and shall be maintained parallel to horizontal for full length of concrete slab bridge.
 4. Height of right barrier varies. See Structure Plan sheets.

A.M.M. A.M. MARQUEZ
DESIGN OVERSIGHT
SIGNOFF DATE 9/14/93

DESIGN	BY M. O'SULLIVAN	CHECKED R. RUDOLPH
DETAILS	BY D. BRAVO	CHECKED R. RUDOLPH
QUANTITIES	BY E. BOUGANOS	CHECKED R. MCLAUGHLIN

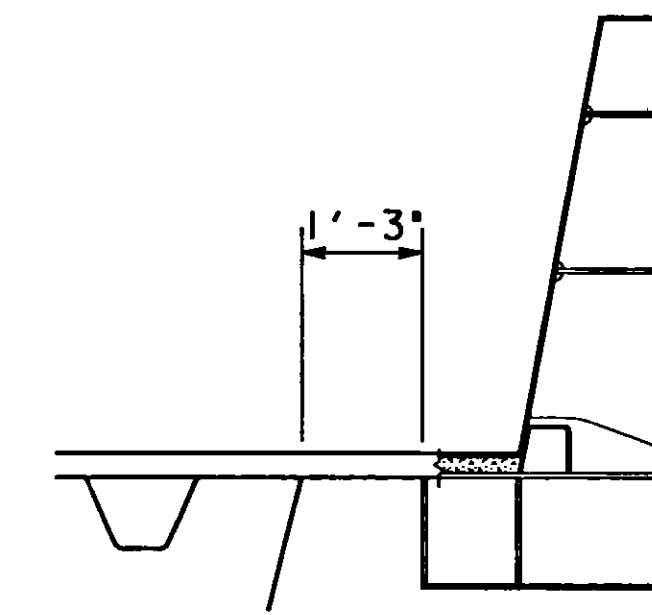
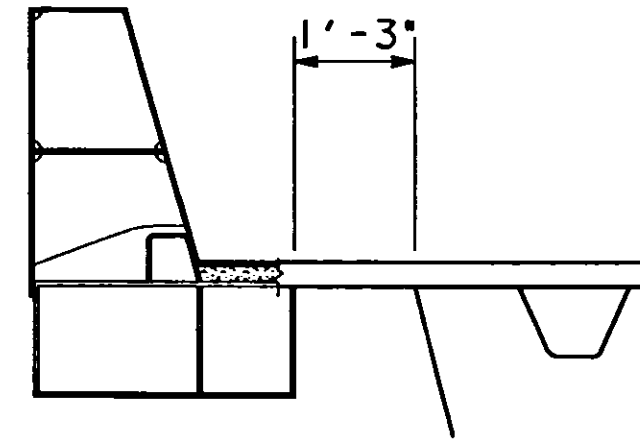
PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

M. BENOIT
PROJECT ENGINEER

BRIDGE NO.	33-623S	MARITIME OFF-RAMP
POST MILE		
TYPICAL SECTIONS		

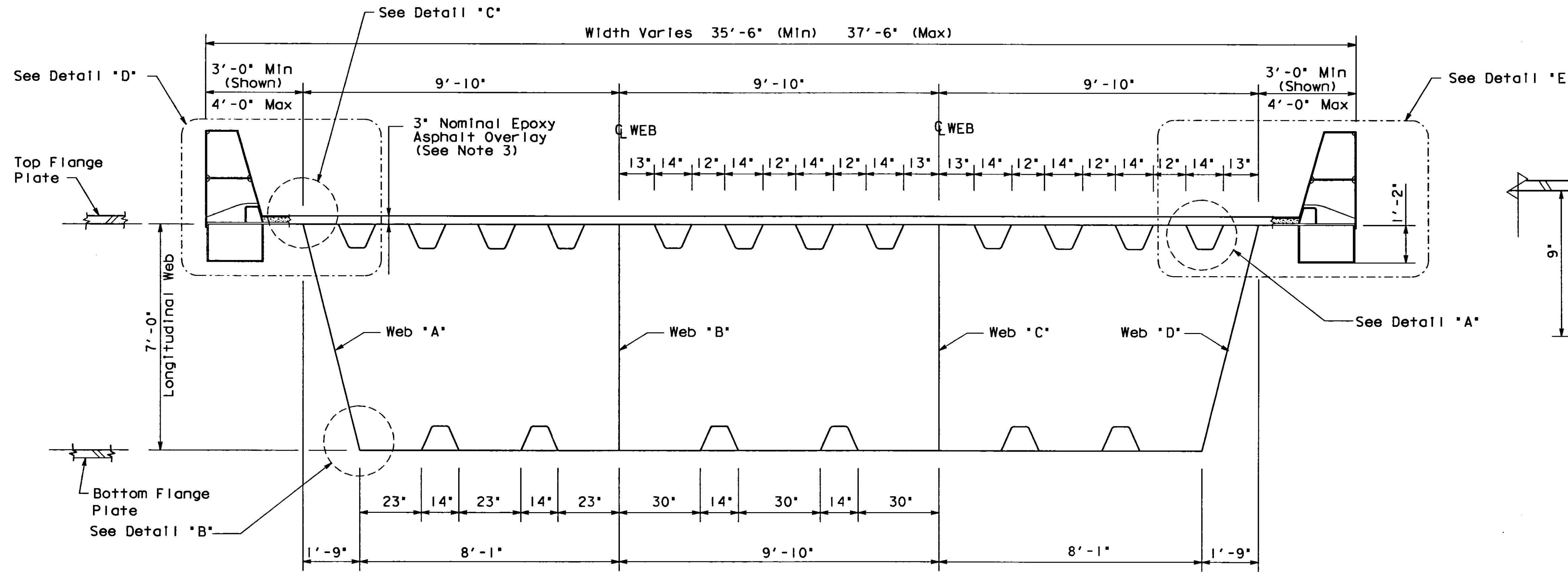
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4 1.3/3.0	668	1412

P. M. Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612



DETAIL "D" FOR 3' + TO 4' WIDE OVERHANGS

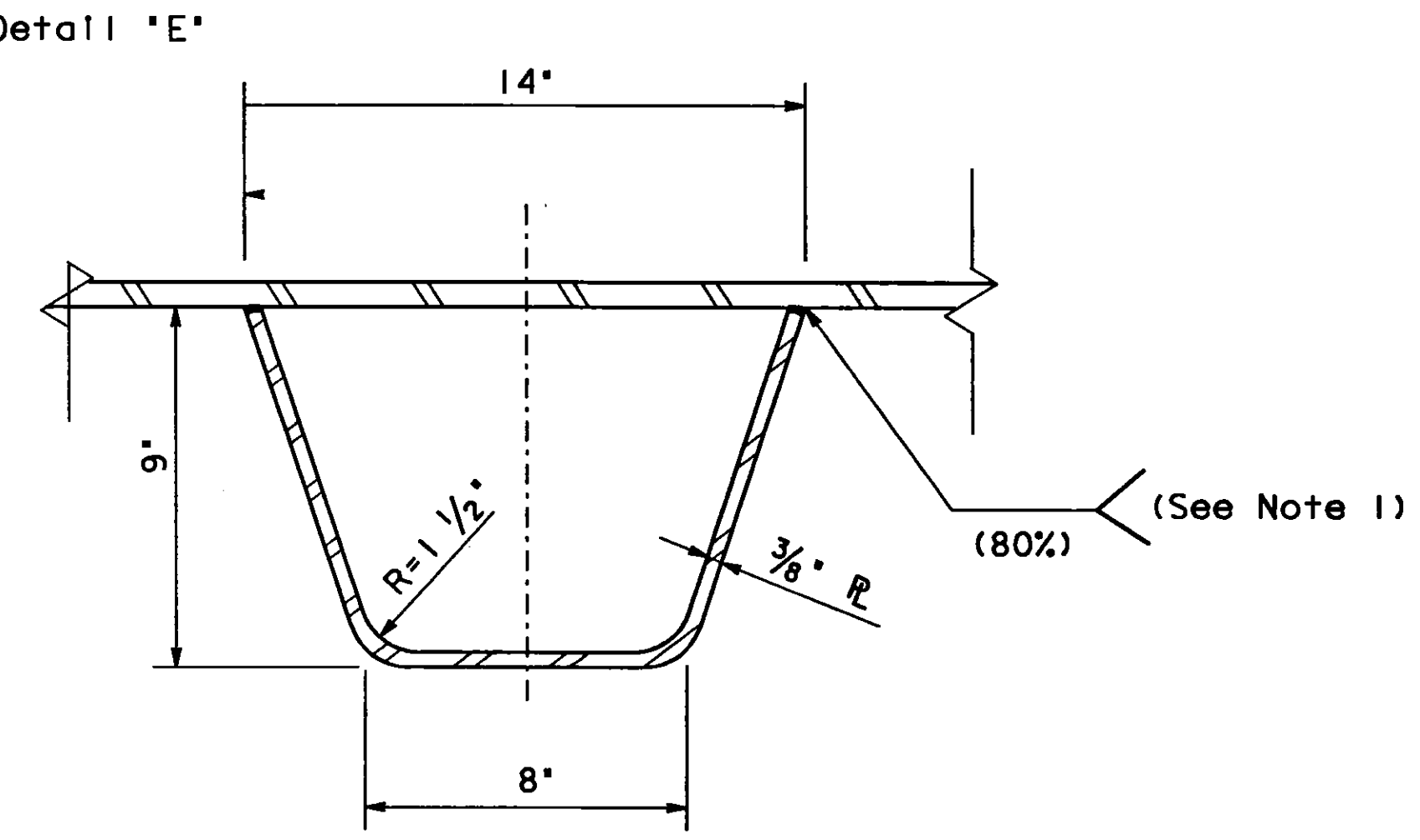
DETAIL "E" FOR 3' + TO 4' WIDE OVERHANGS



(LOOKING UPSTATION)

TYPICAL SECTION

1/2" = 1'-0"



Closed Rib Stiffener

DETAIL "A"
3" = 1'-0"

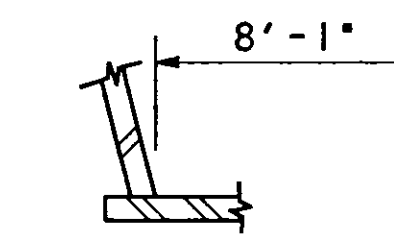
AS BUILT

CORRECTIONS BY *R. AKKAWI*
CONTRACT NO. *04-192234*
DATE *9-19-97* *10-12-98*

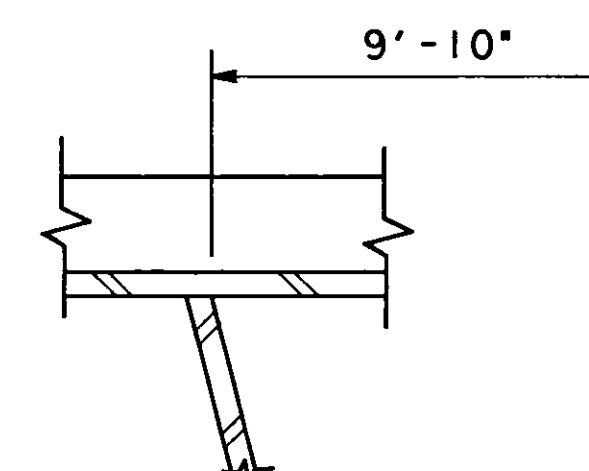
Notes:

NO AS BUILT CHANGES

- The weld attaching the closed rib stiffener to the deck plate shall produce 80% minimum penetration of the closed rib thickness. The penetration shall be measured normal to the inclined surface of the rib web plate.
- See diaphragm details for welds of girder webs to top and bottom flange plates.
- Maintain 1 inch minimum thick layer of epoxy over the top surface of all bolts embedded within the epoxy surface.



DETAIL "B"
3" = 1'-0"



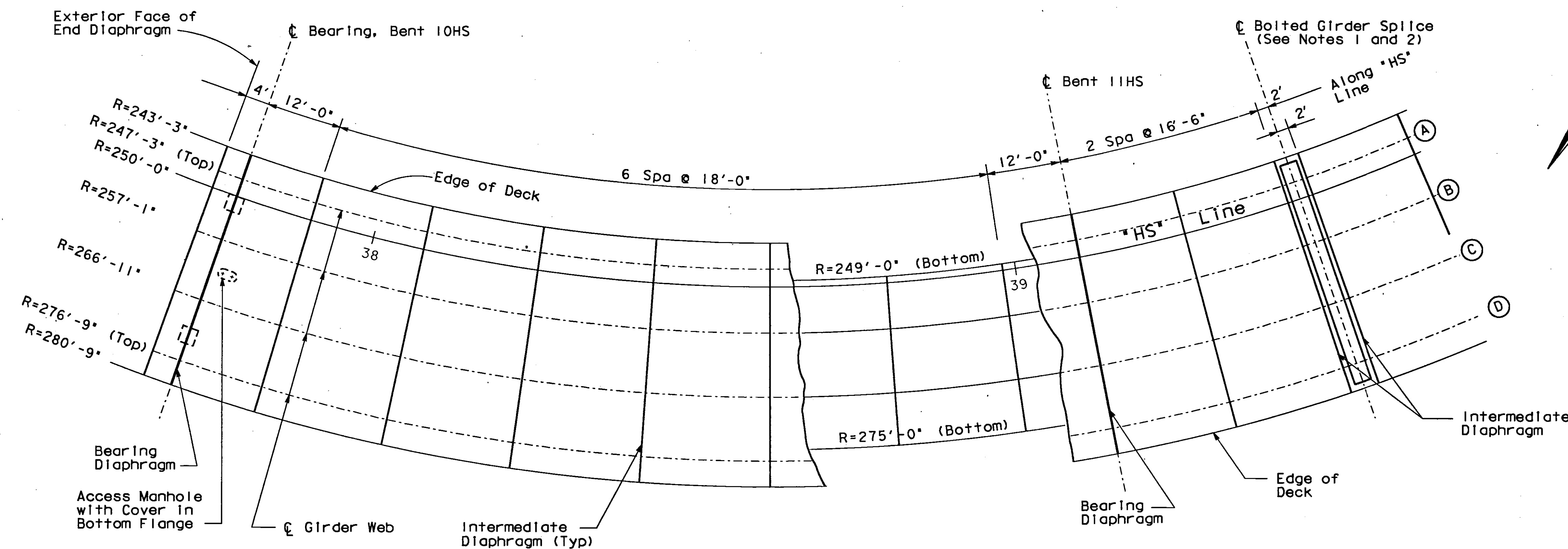
DETAIL "C"
3" = 1'-0"

 A. M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <i>9/14/93</i>	DESIGN	BY M. BENOIT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO.	33-623S	MARITIME OFF-RAMP STEEL BOX GIRDER TYPICAL SECTION	
	DETAILS	BY A. GRISWOLD	CHECKED R. RUDOLPH			POST MILE			
	QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 34 OF 138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880, 80	34.4 1.3/3.0	669	1412

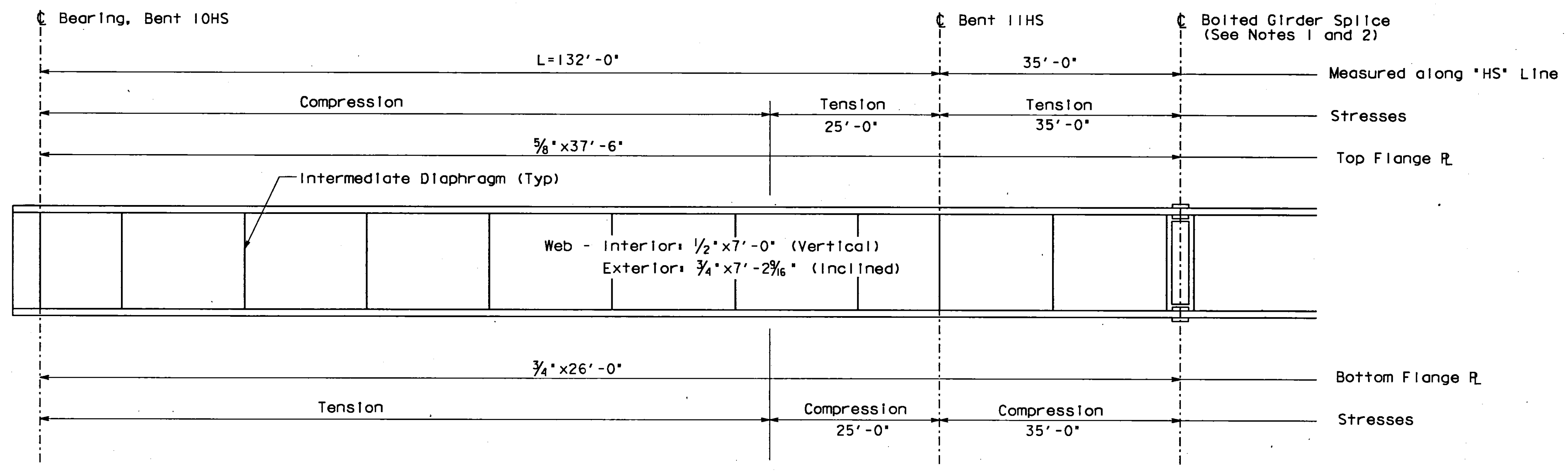
J. M. Benoit
 REGISTERED CIVIL ENGINEER
 No. C37895
 Exp. 3/31/97
 CIVIL
 STATE OF CALIFORNIA

6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612



- NOTES:**
1. Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5"
 2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted field splice requirements.

GIRDER LAYOUT
1" = 10'



GIRDER ELEVATION
NTS

AS BUILT
 CORRECTIONS BY *R. AKKAWI*
 CONTRACT NO. *04-19223A*
 DATE *9-19-97* *10-10-97*
NO AS BUILT CHANGES

<i>A.M.M. MARQUEZ</i> DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN BY R. HOLT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-6235	MARITIME OFF-RAMP GIRDER LAYOUT & ELEVATION - NO. 1
	DETAILS BY A. GRISWOLD	CHECKED R. RUDOLPH			POST MILE	
	QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN			CU 04 EA 192231	

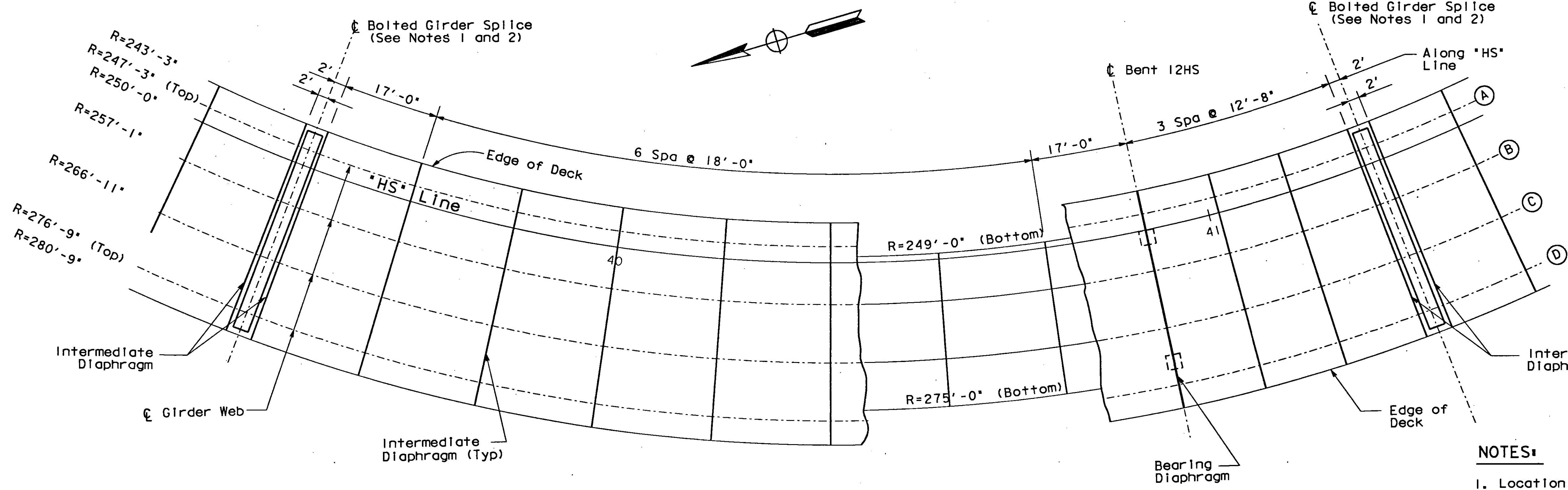
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 DISREGARD PRINTS BEARING EARLIER REVISION DATES →
 REVISION DATES (PRELIMINARY STAGE ONLY): 9/18/92, 11/16/92, 2/26/93, 3/31/93, 5/14/93
 SHEET 35 OF 138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,80	34.4, 1.3/3.0	670	1412

RMB
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE

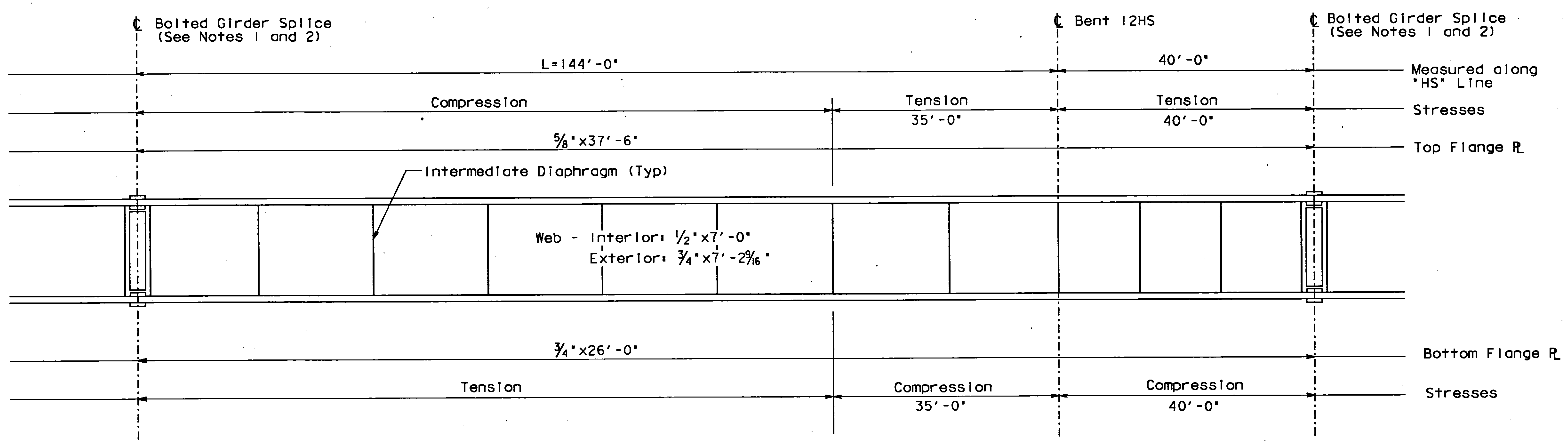
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612

J. MICHEL BENOIT
No. C37895
Exp. 3/31/97
CIVIL
STATE OF CALIFORNIA



GIRDER LAYOUT
1"=10'

- NOTES:**
1. Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5".
 2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted field splice requirements.



GIRDER ELEVATION
NTS

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY *R. ARKAWI*
CONTRACT NO. *04-19223A*
DATE *9-19-97* *10-12-98*

A.M.M. A.M. MARQUEZ
DESIGN OVERSIGHT
SIGNOFF DATE: *6/7/93*

DESIGN	BY R. HOLT	CHECKED R. RUDOLPH
DETAILS	BY A. GRISWOLD	CHECKED R. RUDOLPH
QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

M. BENOIT
PROJECT ENGINEER

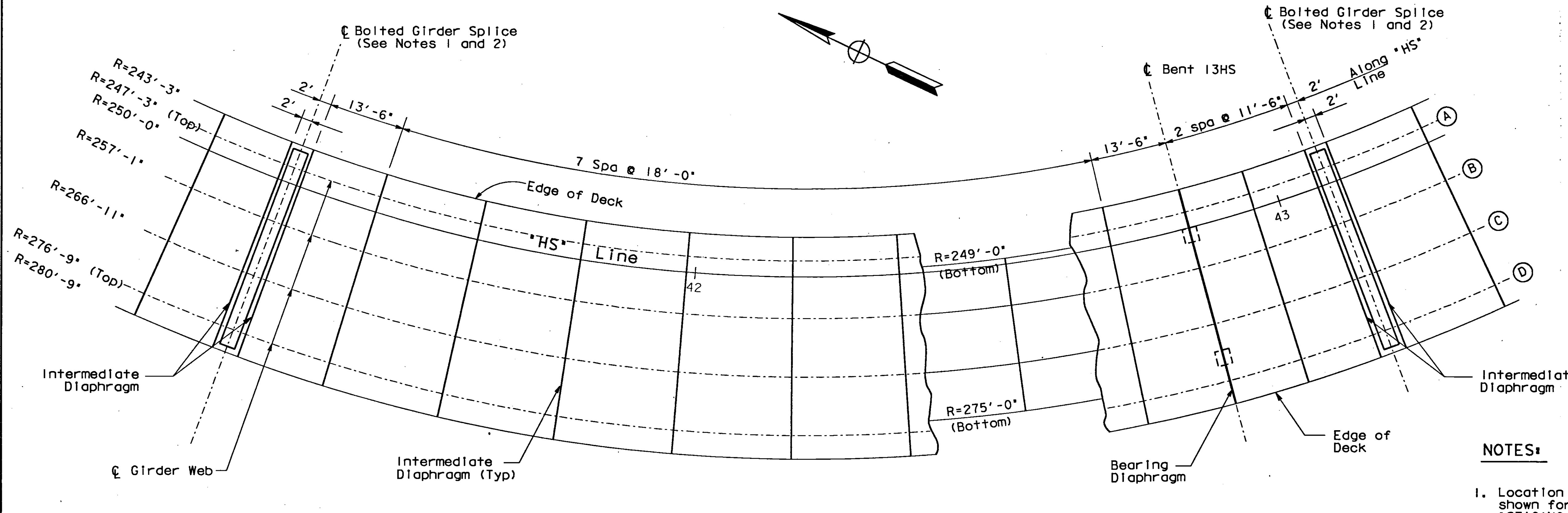
BRIDGE NO.	33-623S	MARITIME OFF-RAMP
POST MILE		GIRDER LAYOUT & ELEVATION - NO.2
REVISION DATES (PRELIMINARY STAGE ONLY)	9/18/92 11/16/92 2/26/93 3/14/93 5/14/93	SHEET 36 OF 138

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
0 1 2 3
CU 04
EA 192231

DIST	COUNTY	ROUTE	TOTAL P.C.S.	SHEET	TOTAL
04	Ala	880, 80	34.4, 1.3/3.0	671	1412

<i>R. Benoit</i> REGISTERED CIVIL ENGINEER	
6-13-94	PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY 1800 HARRISON STREET OAKLAND, CA 94612	

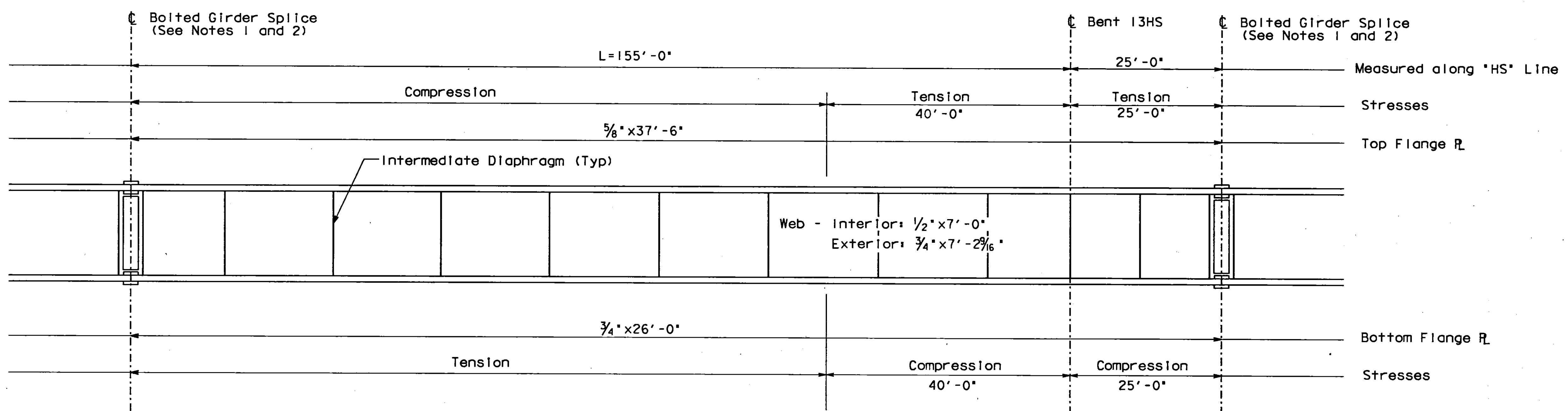
REGISTERED PROFESSIONAL ENGINEER	
J. MICHEL BENOIT	
No. C37895	Exp. 3/3/97
CIVIL	



GIRDER LAYOUT
1" = 10'

NOTES:

1. Location of the transverse bolted field splice is shown for the launching method of erection shown on 'STAGING PLAN NO. 1' through 'STAGING PLAN NO. 5'
2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See 'ALTERNATE FIELD SPLICE LAYOUT' and 'ALTERNATE FIELD SPLICE DETAILS NO. 1' and 'ALTERNATE FIELD SPLICE DETAILS NO. 2' for alternate bolted field splice requirements.



GIRDER ELEVATION
NTS

**NO AS BUILT CHANGES
AS BUILT**
CORRECTIONS BY *R. AKRAWI*
CONTRACT NO. *04-19223F*
DATE *9-19-97 10-12-98*

<i>A.M.M.</i> A.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN BY R. HOLT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-623S	MARITIME OFF-RAMP GIRDER LAYOUT & ELEVATION - NO.3
	DETAILS BY A. GRISWOLD	CHECKED R. RUDOLPH			POST MILE	
	QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN				

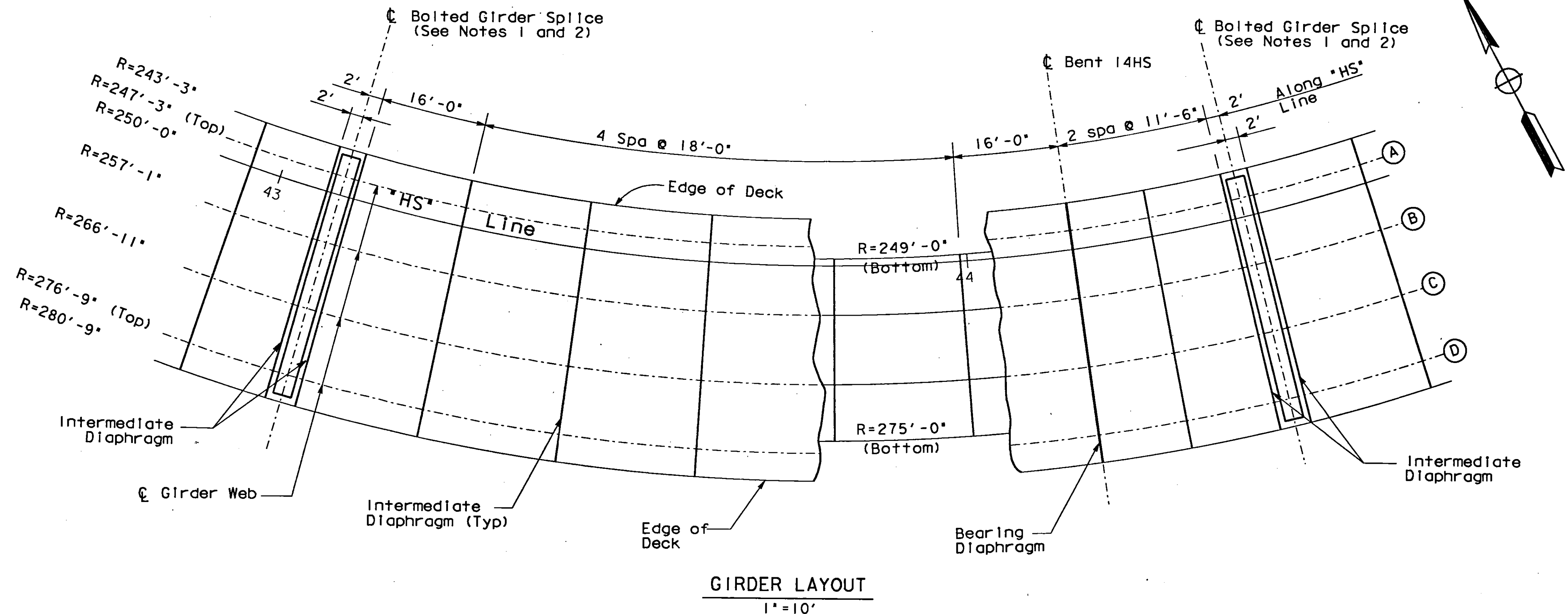
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04
EA 192231

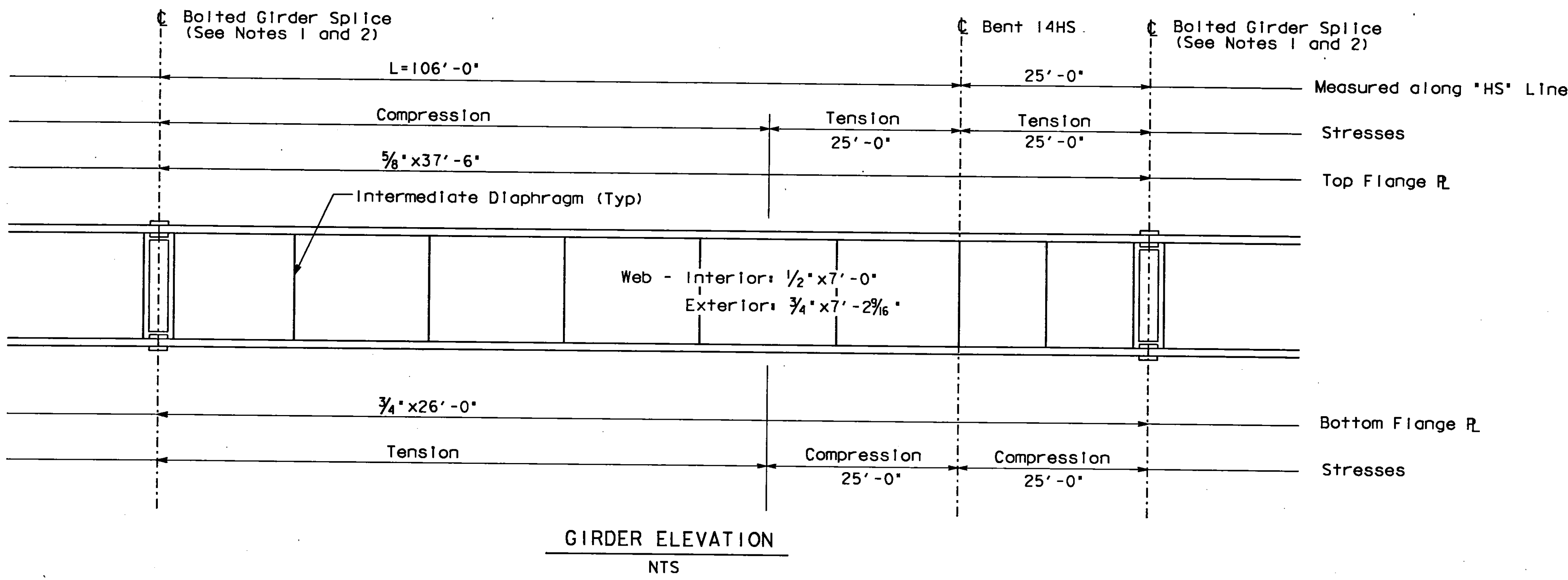
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF					
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3/19/92	1/16/92	2/26/93	3/24/93	5/14/93			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4 1.3/3.0	672	1412

J.M. Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612



- NOTES:**
1. Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5"
 2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted field splice requirements.



NO AS BUILT CHANGES

AS BUILT

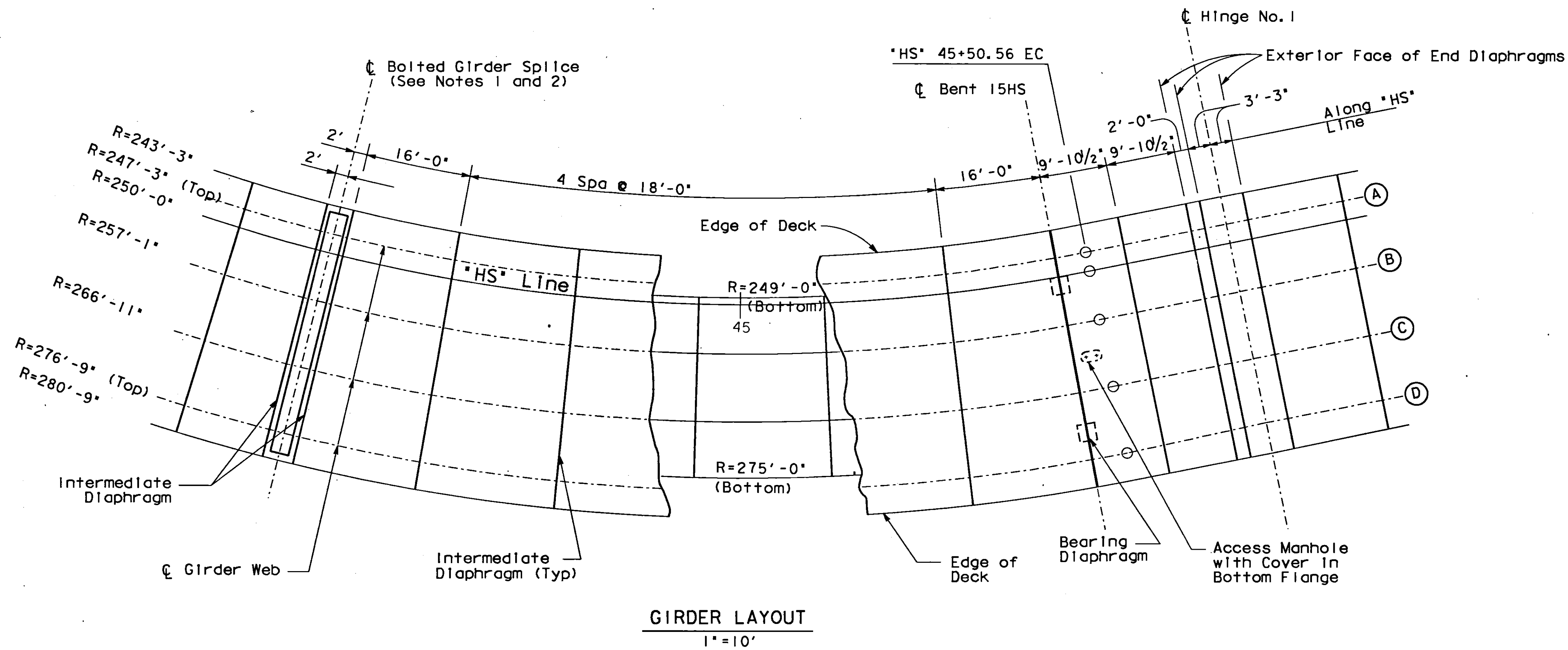
CORRECTIONS BY *R. AKKAWI*
CONTRACT NO. *04-192234*
DATE *9-19-97* *10-16-98*

<i>A.M.M.</i> A. M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN BY R. HOLT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-623S	MARITIME OFF-RAMP GIRDER LAYOUT & ELEVATION - NO. 4			
	DETAILS BY A. GRISWOLD	CHECKED R. RUDOLPH		CU 04	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)		
	QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN		EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES		<table border="1"> <tr> <td>9/18/92</td> <td>1/16/92</td> <td>2/26/93</td> <td>3/31/93</td> <td>5/14/93</td> </tr> </table>	9/18/92	1/16/92
9/18/92	1/16/92	2/26/93	3/31/93	5/14/93					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880, 80	34.4 1.3/3.0	673	1412

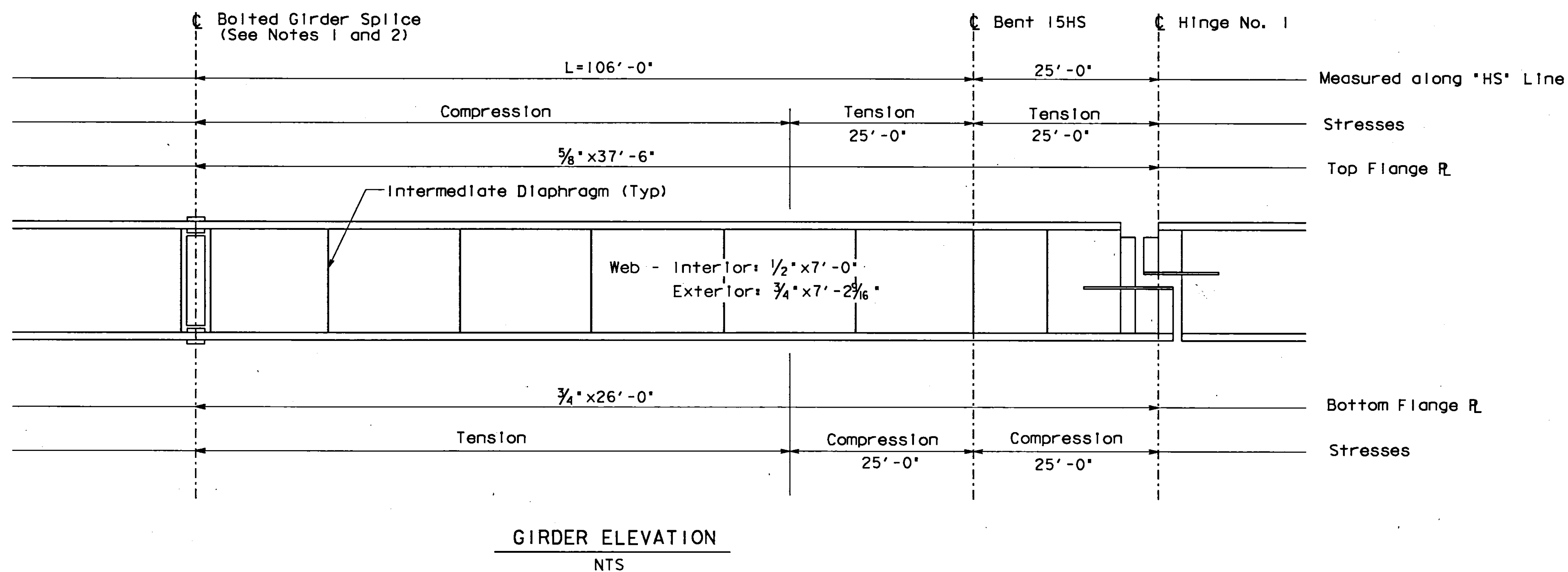
J. M. Benoit
 REGISTERED CIVIL ENGINEER
 No. C37895
 Exp. 3/3/97
 CIVIL
 STATE OF CALIFORNIA

6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612



NOTES:

1. Location of the transverse bolted field splice is shown for the launching method of erection shown on 'STAGING PLAN NO. 1' through 'STAGING PLAN NO. 5'
2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See 'ALTERNATE FIELD SPLICE LAYOUT' and 'ALTERNATE FIELD SPLICE DETAILS NO. 1' and 'ALTERNATE FIELD SPLICE DETAILS NO. 2' for alternate bolted field splice requirements.



NO AS BUILT CHANGES

AS BUILT

CORRECTIONS BY *R. AKRAWI*
 CONTRACT NO. *04-192234 ET*
 DATE *9-19-97 10-14-98*

A.M.M. A.M. MARQUEZ
 DESIGN OVERSIGHT
 SIGNOFF DATE *6/7/93*

DESIGN	BY R. HOLT	CHECKED R. RUDOLPH
DETAILS	BY A. GRISWOLD	CHECKED R. RUDOLPH
QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

M. BENOIT
 PROJECT ENGINEER

BRIDGE NO.	33-623S	MARITIME OFF-RAMP
POST MILE		
GIRDER LAYOUT & ELEVATION - NO.5		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
 CU 04
 EA 192231

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 39 OF 138
	9/18/92 11/14/92 2/16/93 3/14/93 5/14/93	

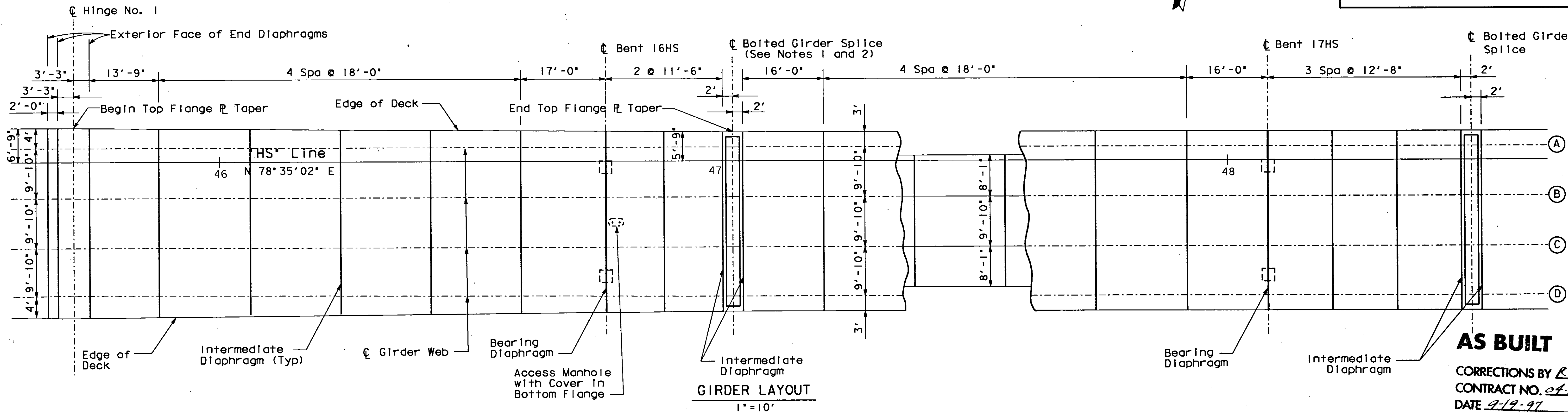
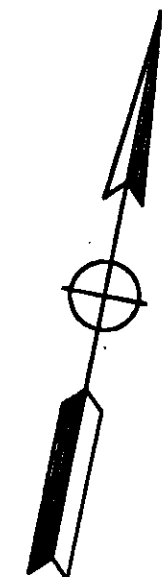
NOTES:

1. Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5"
2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted field splice requirements.

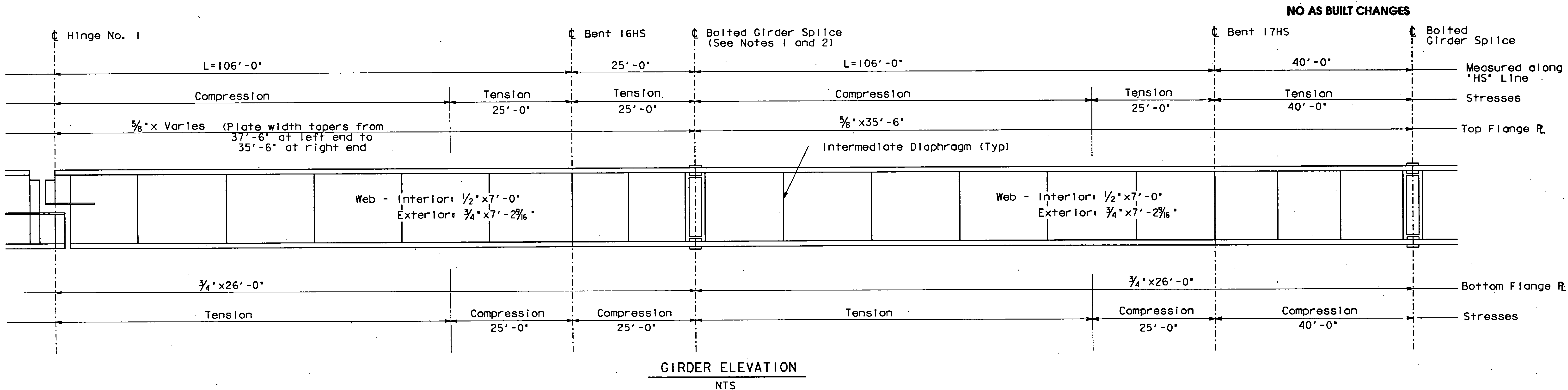
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4 1.3/3.0	674	1412

J. Michel Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612

REGISTERED PROFESSIONAL ENGINEER
J. MICHEL BENOIT
No. C37895
Exp. 3/31/97
CIVIL
STATE OF CALIFORNIA



AS BUILT
CORRECTIONS BY *R. ARKAWI*
CONTRACT NO. *04-19223A*
DATE *9-19-97 10-12-98*



GIRDER ELEVATION
NTS

A.M.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN BY <i>R. HOLT</i>	CHECKED <i>R. RUDOLPH</i>	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER <i>M. BENOIT</i>	BRIDGE NO. <i>33-623S</i>	MARITIME OFF-RAMP GIRDER LAYOUT & ELEVATION - NO.6
	DETAILS BY <i>A. GRISWOLD</i>	CHECKED <i>R. RUDOLPH</i>		POST MILE		
	QUANTITIES BY <i>E. BOUGDANOS</i>	CHECKED <i>R. MCLAUGHLIN</i>		CU 04 EA 192231	REVISION DATES (PRELIMINARY STAGE ONLY)	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	9/16/92 11/16/92 2/26/93 3/31/93 5/11/93	SHEET 40 OF 138

NOTES:

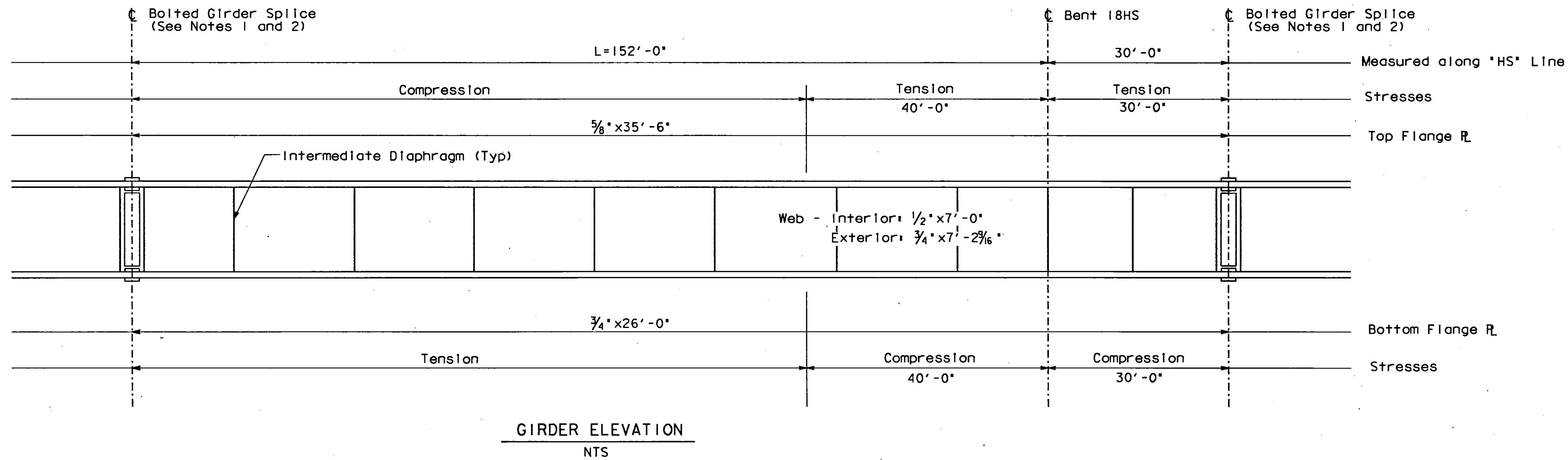
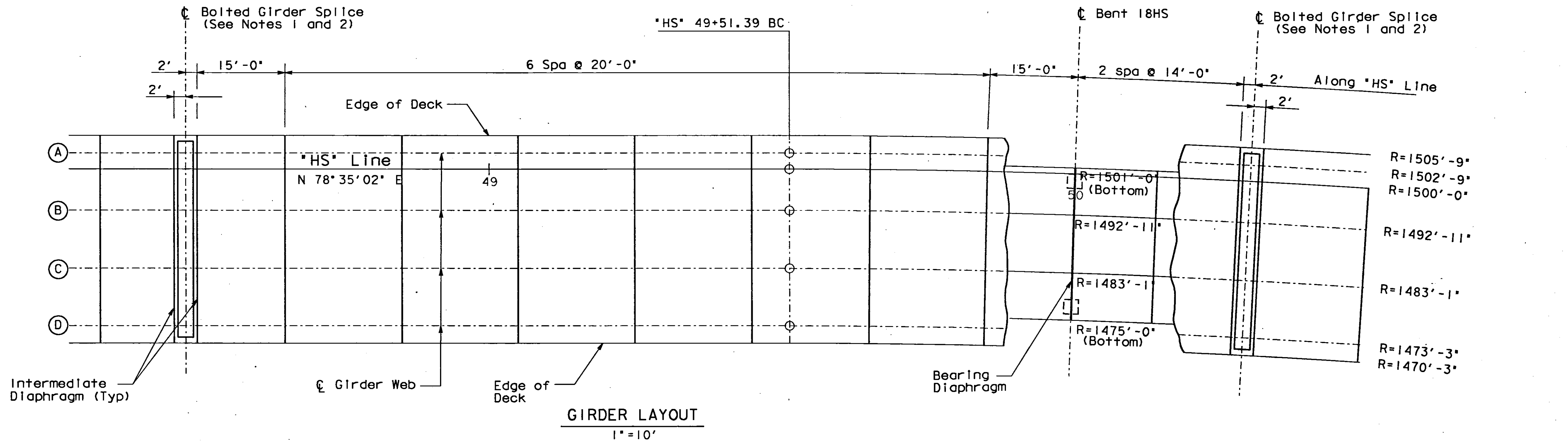
1. Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5"
2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted splice requirements.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4 1.3/3.0	675	1412

J. M. Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE

TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612

REGISTERED PROFESSIONAL ENGINEER
J. MICHEL BENOIT
No. C37895
Exp. 3/31/97
CIVIL
STATE OF CALIFORNIA



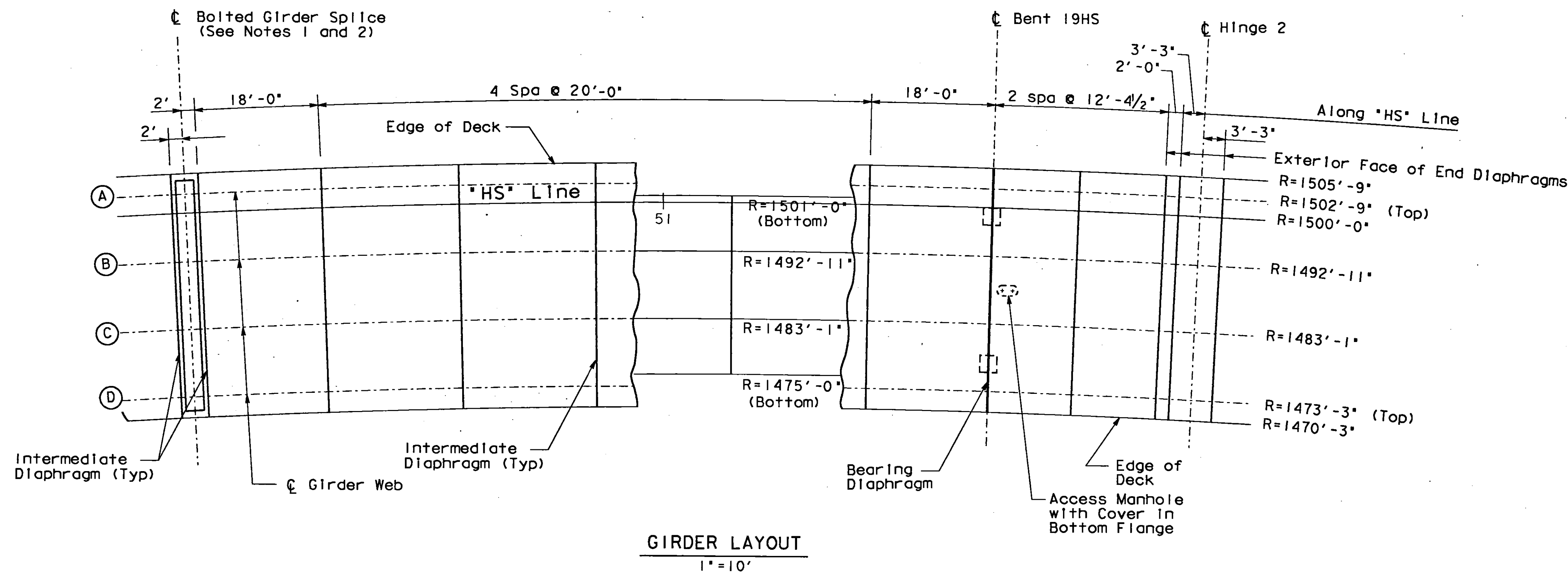
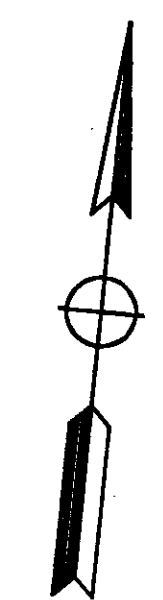
NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY *R. ARKANI*
CONTRACT NO. *04-192234*
DATE *9-19-97* *10-12-98*

 A.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE 6/7/93	DESIGN	BY R. HOLT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO.	33-623S	MARITIME OFF-RAMP GIRDER LAYOUT & ELEVATION - NO.7
	DETAILS	BY A. GRISWOLD	CHECKED R. RUDOLPH			POST MILE		
	QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN			CU 04 EA 192231	REVISION DATES (PRELIMINARY STAGE ONLY)	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 41 OF 138		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,80	34.4 1.3/3.0	676	1412

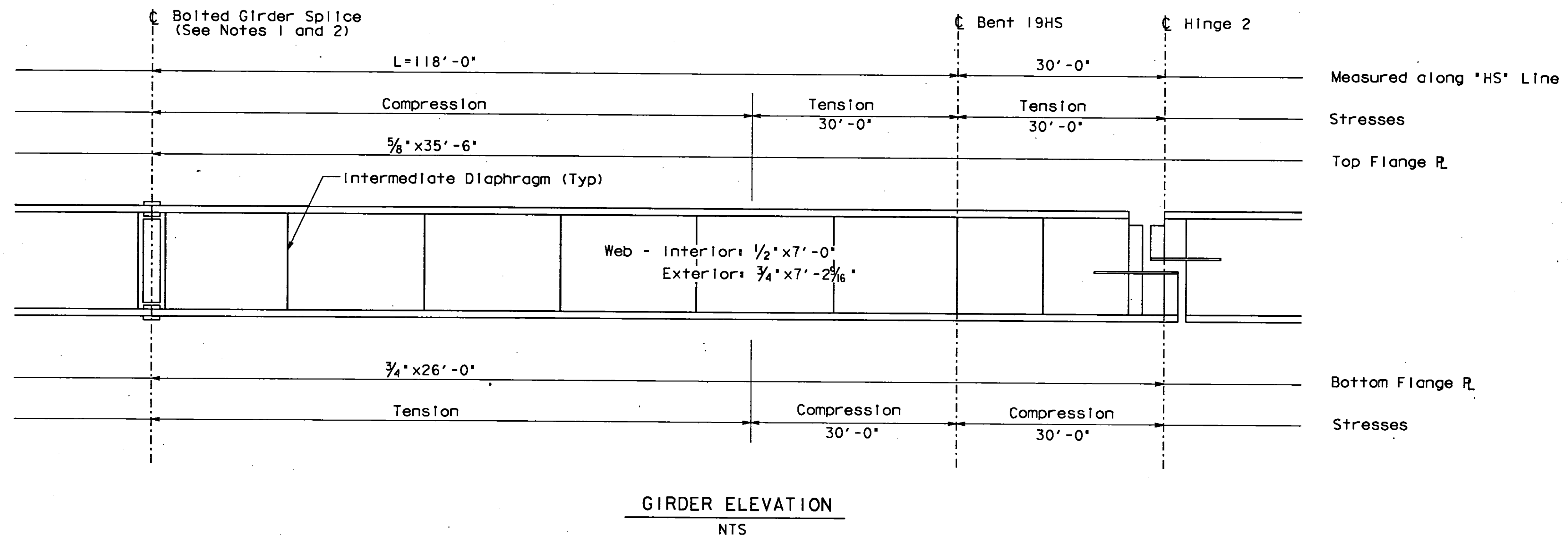
J. M. Benoit
 REGISTERED CIVIL ENGINEER
 6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612

REGISTERED PROFESSIONAL ENGINEER
 J. MICHEL BENOIT
 No. C37895
 Exp. 3/3/97
 CIVIL
 STATE OF CALIFORNIA



NOTES:

1. Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5".
2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted field splice requirements.



NO AS BUILT CHANGES

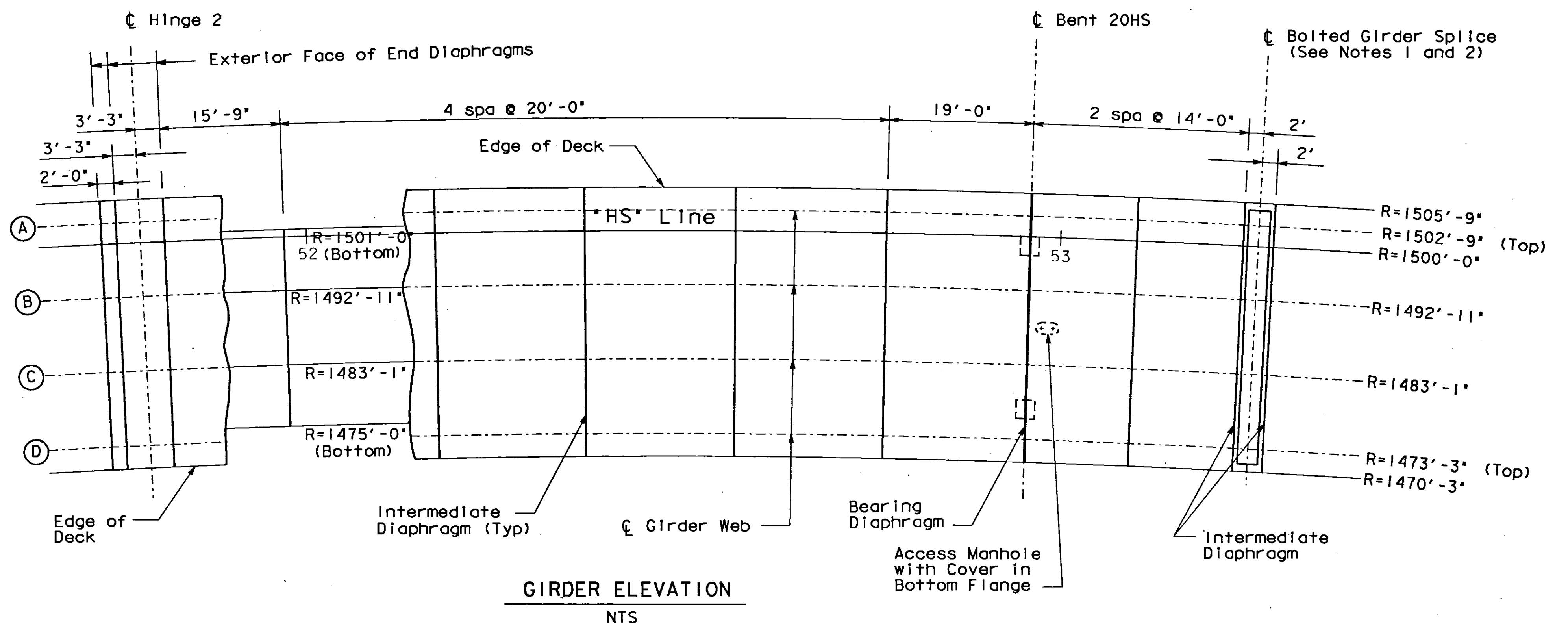
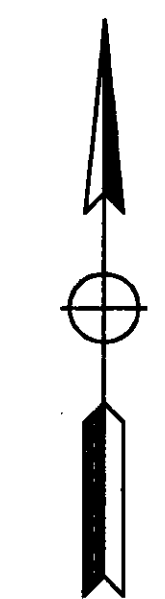
AS BUILT

CORRECTIONS BY *R. Akkani*
 CONTRACT NO. *04-192234*
 DATE *9-19-97* *10-12-98* CT

<i>A.M.M.</i> A.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN BY R. HOLT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-623S	MARITIME OFF-RAMP GIRDER LAYOUT & ELEVATION - NO.8
	DETAILS BY A. GRISWOLD	CHECKED R. RUDOLPH			POST MILE	
	QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN		CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 9/18/92 11/16/92 2/26/93 3/31/93 5/14/93 6/1/93
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3			SHEET OF 42 138

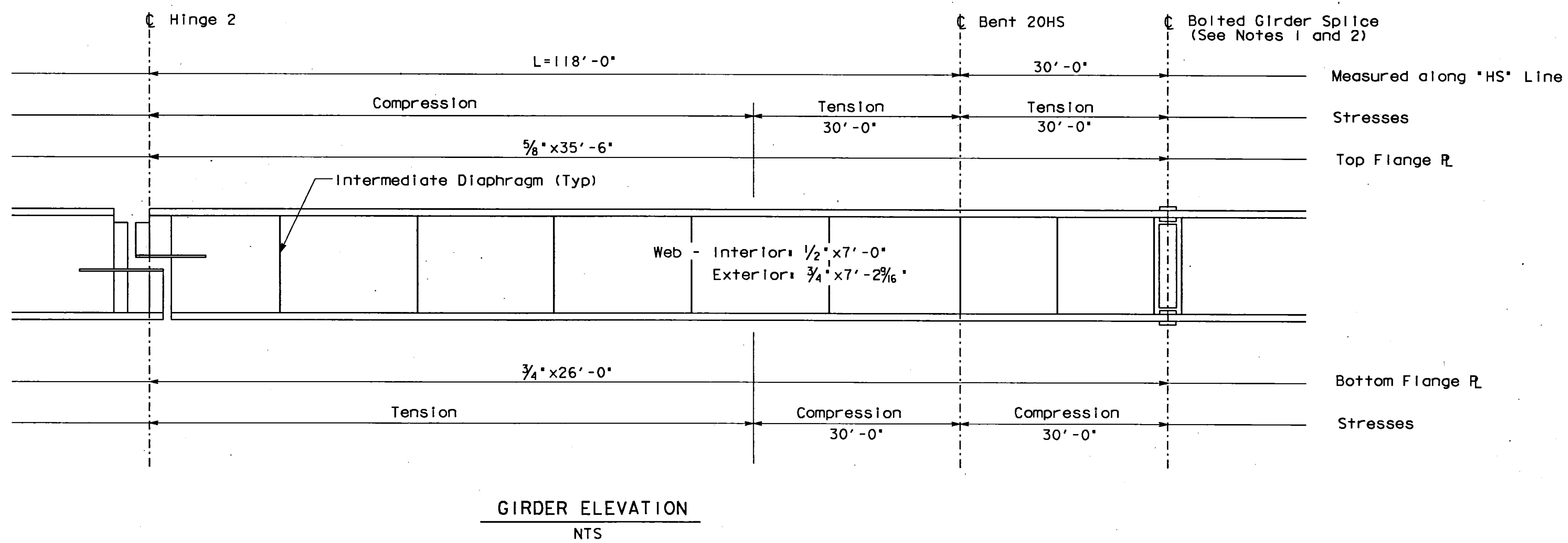
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,80	34.4, 1.3/3.0	677	1412

J. Michel Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612



NOTES:

1. Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5"
2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted field splice requirements.



NO AS BUILT CHANGES
AS BUILT

CORRECTIONS BY *R. ARRAWI*
CONTRACT NO. *04-192234*
DATE *9-19-97* *10-12-98*

A.M.M. A.M. MARQUEZ
DESIGN OVERSIGHT
SIGNOFF DATE *6/7/93*

DESIGN	BY R. HOLT	CHECKED R. RUDOLPH
DETAILS	BY A. GRISWOLD	CHECKED R. RUDOLPH
QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

M. BENOIT
PROJECT ENGINEER

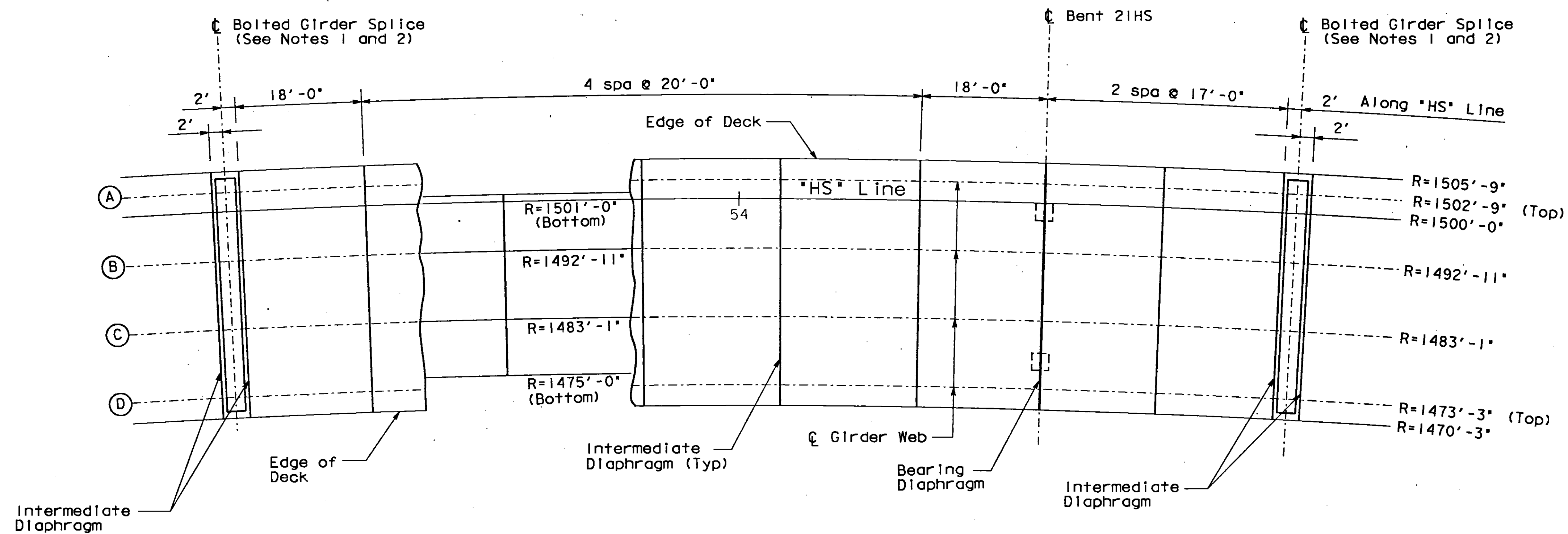
BRIDGE NO.	33-623S	MARITIME OFF-RAMP
POST MILE		
GIRDER LAYOUT & ELEVATION - NO.9		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
CU 04
EA 192231

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	9/18/92 11/16/92 2/26/93 3/11/93 5/11/93 6/11/93	43	138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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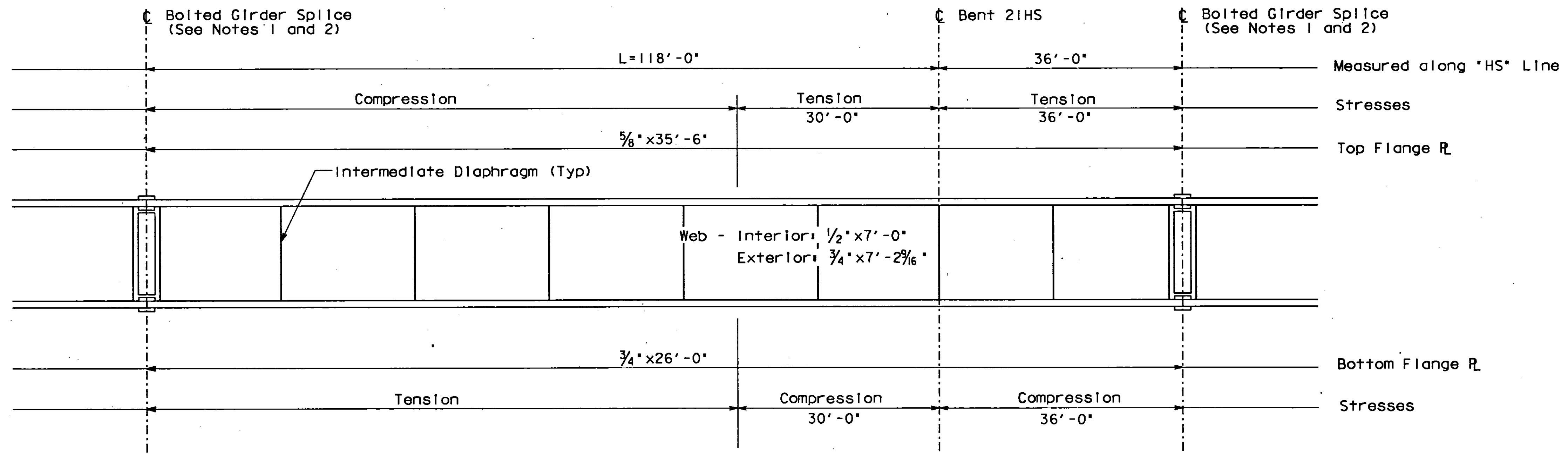
J.M. Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612



GIRDER LAYOUT
1"=10'

NOTES:

1. Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5"
2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted field splice requirements.



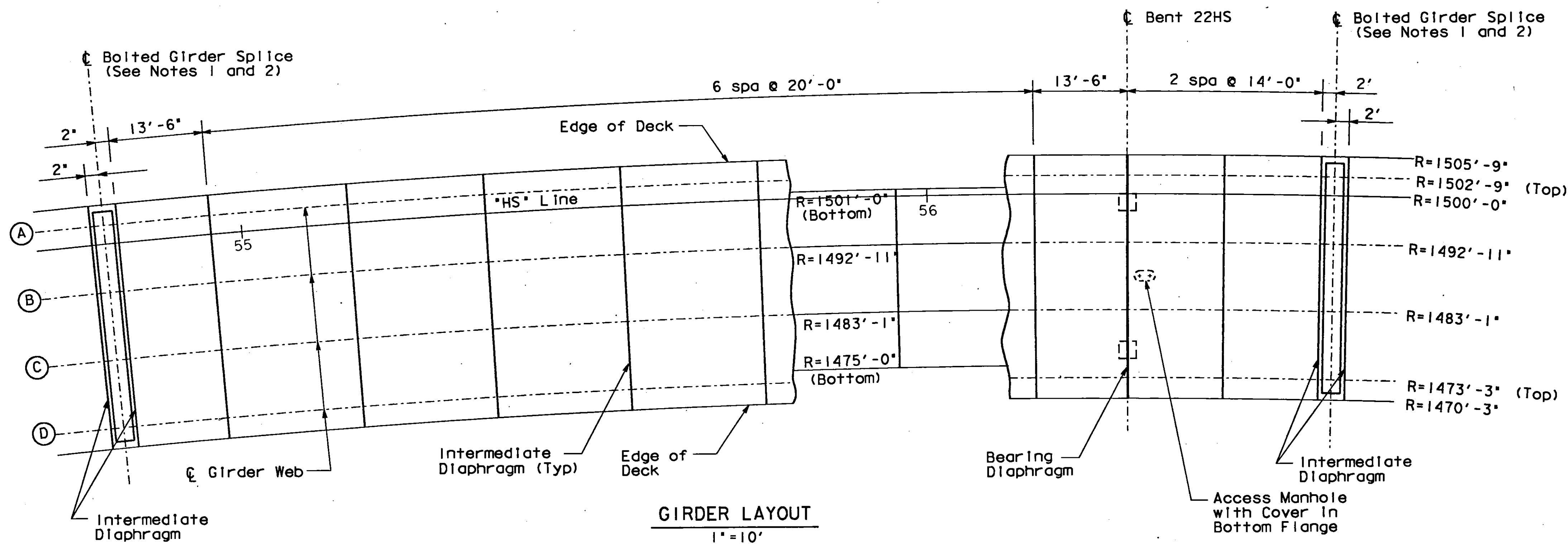
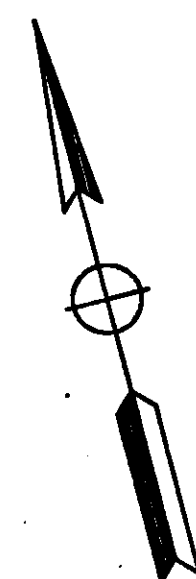
GIRDER ELEVATION
NTS

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY *R. ALKAWI*
CONTRACT NO. *04-192234*
DATE *9-19-97 10-12-98*

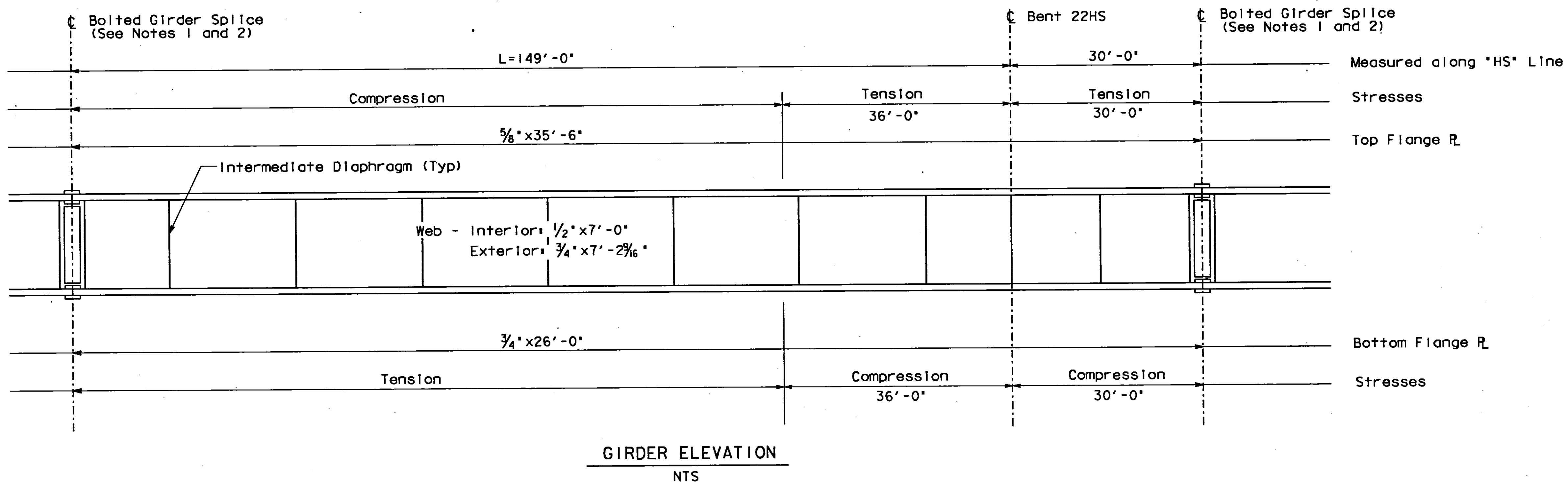
 A.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN BY R. HOLT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-623S	MARITIME OFF-RAMP GIRDER LAYOUT & ELEVATION - NO.10
	DETAILS BY A. GRISWOLD	CHECKED R. RUDOLPH			POST MILE	
	QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN	CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION TABLE (PRELIMINARY STAGE ONLY) 3/16/92 1/16/92 2/26/93 3/31/93 5/14/93	SHEET 44 OF 138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,80	34.4 1,3/3.0	679	1412

J. Benoit
 REGISTERED CIVIL ENGINEER
 6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612



- NOTES:**
1. Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5"
 2. The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted field splice requirements.
 3. All field splice locations are moved 20' top from the E of the Bent (RFS No 3)



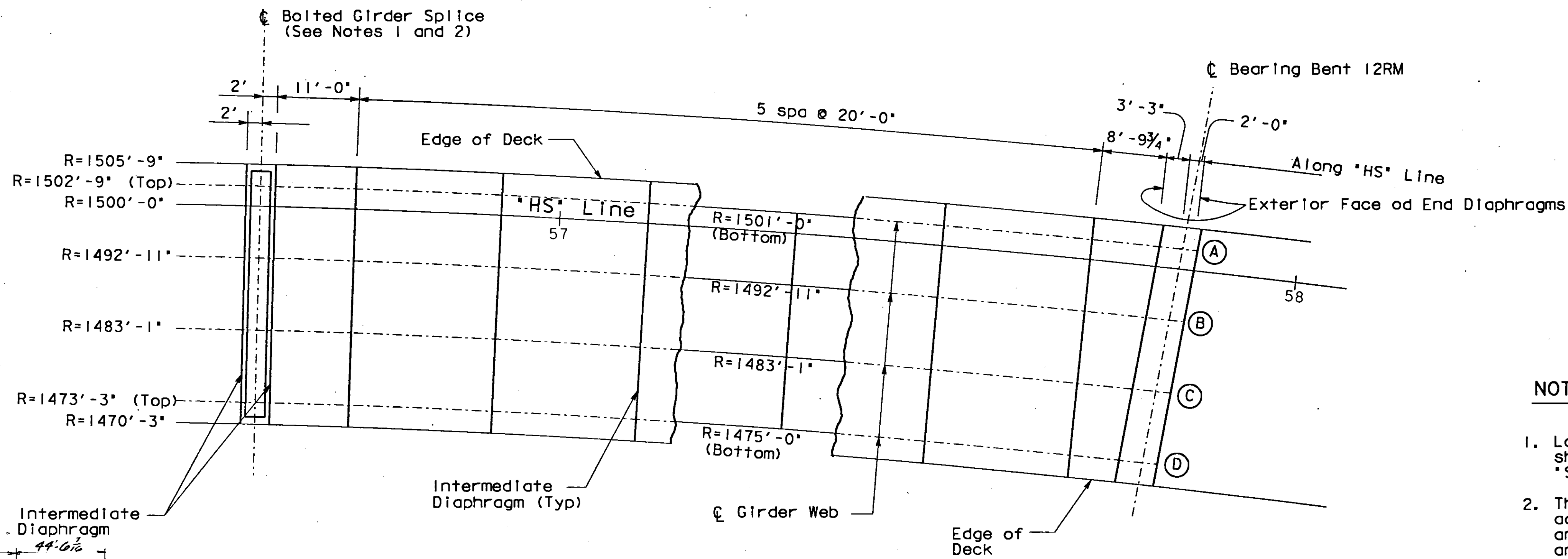
AS BUILT
 CORRECTIONS BY *R. AKKAWI*
 CONTRACT NO. ~~04-192234~~
 DATE ~~9-19-97~~ 10-12-98

<i>A.M. MARQUEZ</i> DESIGN OVERSIGHT SIGNOFF DATE 6/7/93	DESIGN BY R. HOLT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-623S	MARITIME OFF-RAMP GIRDER LAYOUT & ELEVATION - NO.11
	DETAILS BY A. GRISWOLD	CHECKED R. RUDOLPH			POST MILE	
	QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			CU 04	EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) SHEET 45 OF 138

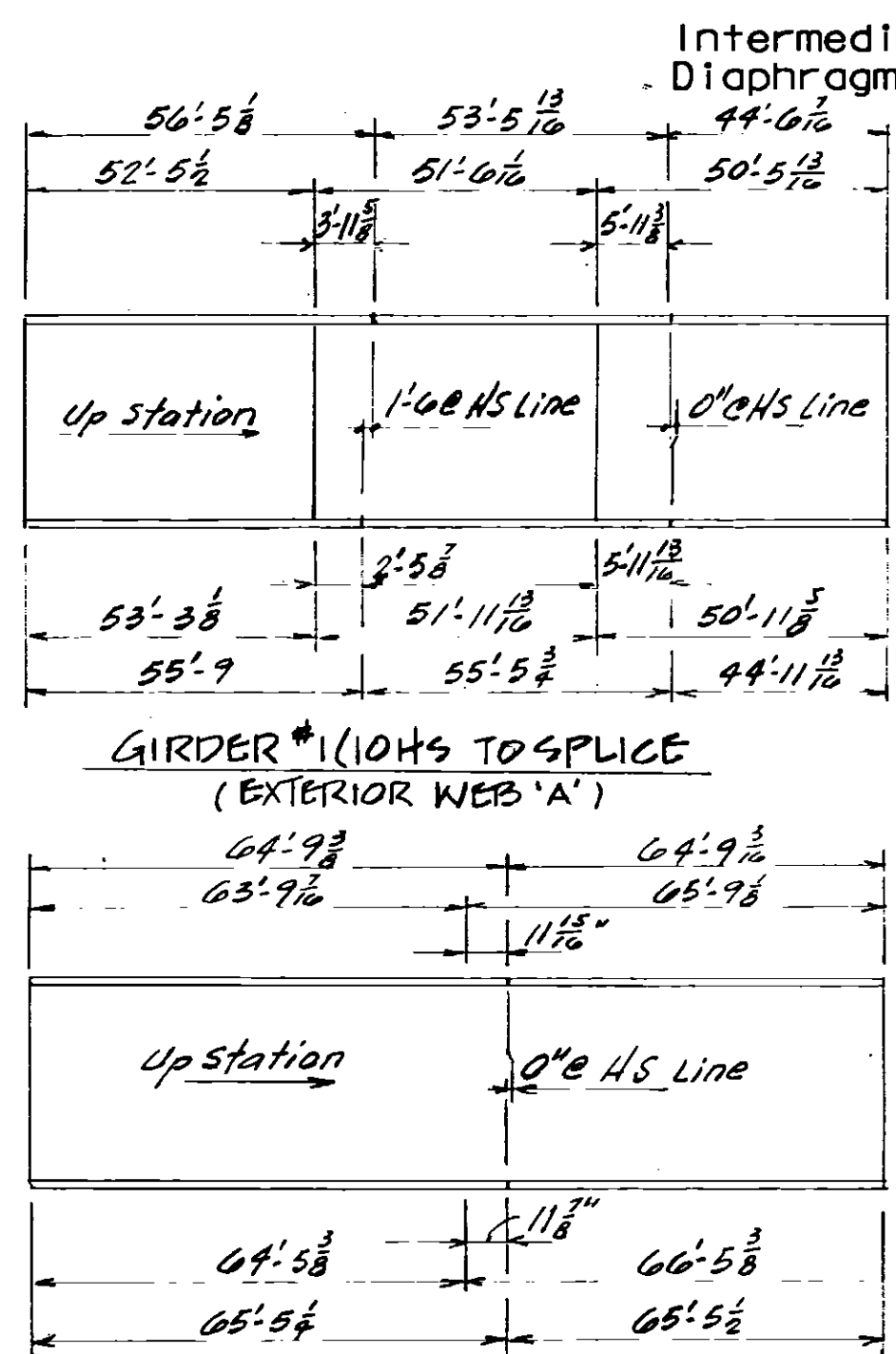
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,80	34.4, 1.3/3.0	680	1412

J. M. Benoit
 REGISTERED CIVIL ENGINEER
 6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612

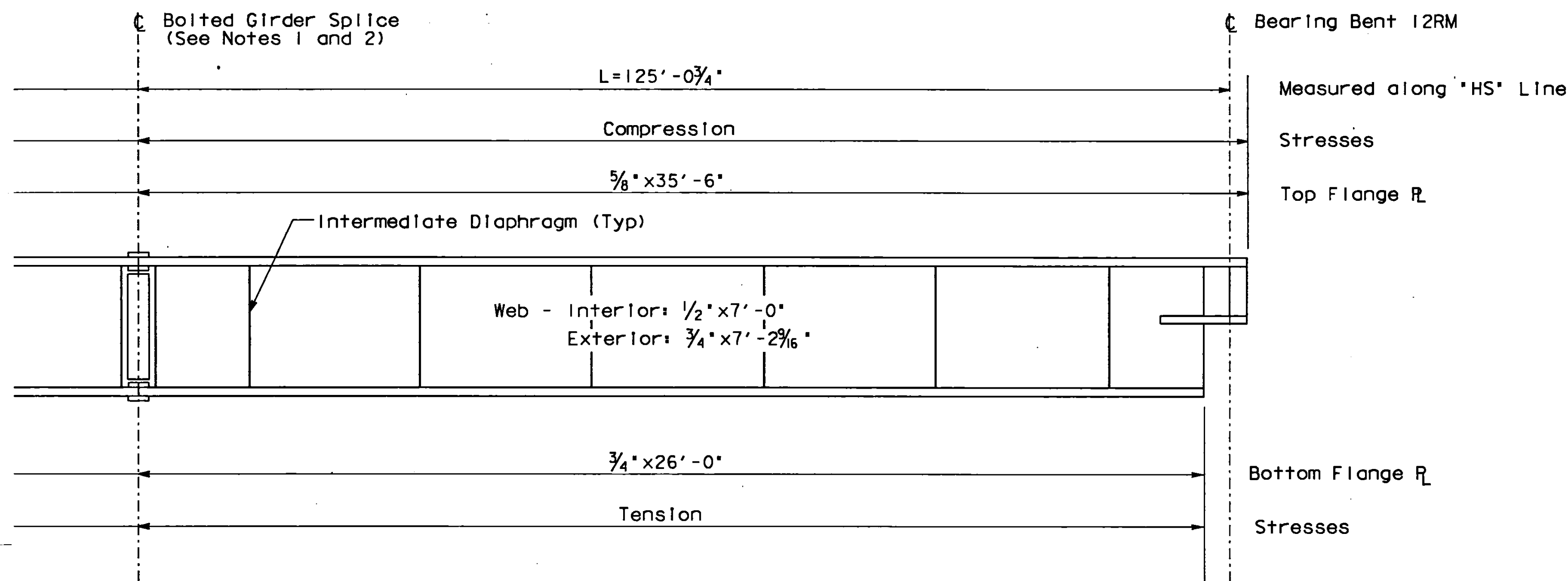
J. MICHEL BENOIT
 REGISTERED PROFESSIONAL ENGINEER
 No. C37895
 Exp. 3/31/97
 CIVIL
 STATE OF CALIFORNIA



GIRDER LAYOUT
1"=10'



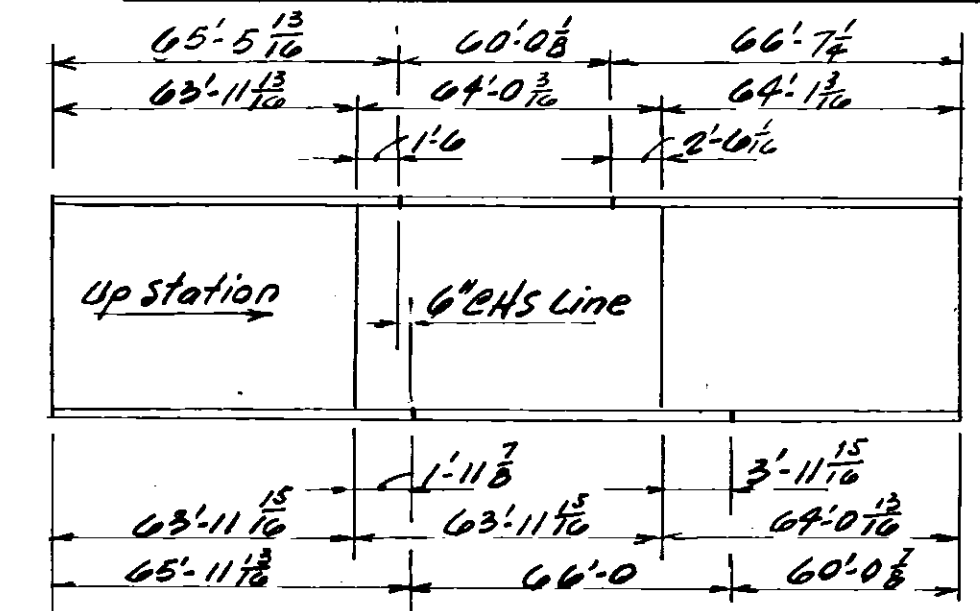
SCHEMATIC SHOP WELD LOCATIONS
No SCALE (CCO #30)



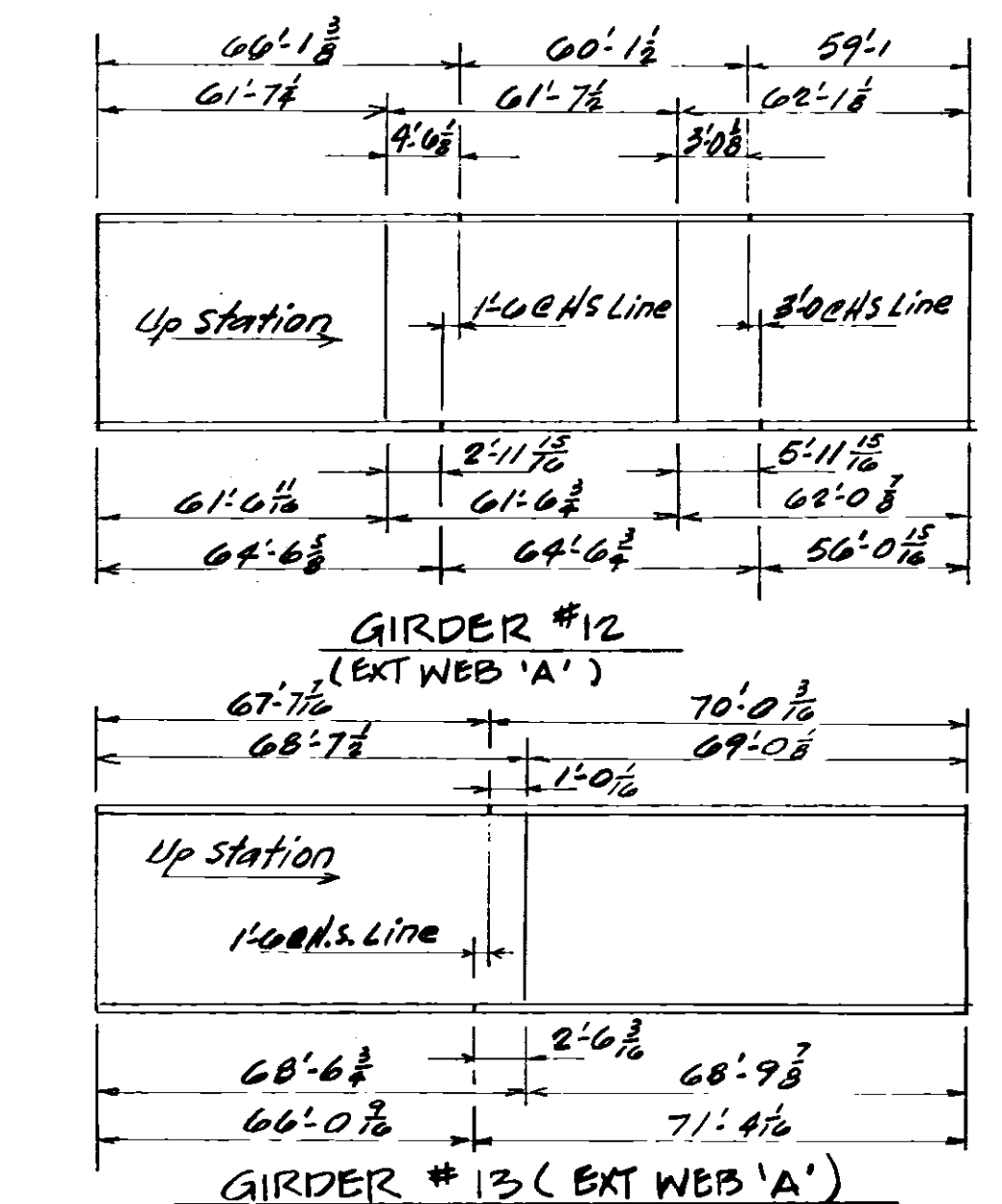
GIRDER ELEVATION
NTS

NOTES:

- Location of the transverse bolted field splice is shown for the launching method of erection shown on "STAGING PLAN NO. 1" through "STAGING PLAN NO. 5"
- The contractor may propose alternate and additional bolted field splices (both transverse and longitudinal) to suit his proposed fabrication and erection method. See "ALTERNATE FIELD SPLICE LAYOUT" and "ALTERNATE FIELD SPLICE DETAILS NO. 1" and "ALTERNATE FIELD SPLICE DETAILS NO. 2" for alternate bolted field splice requirements.



GIRDERS #8
(EXT. WEB 'A')
SCHEMATIC SHOP WELD LOCATIONS
(CCO #30)



SCHEMATIC SHOP WELD LOCATIONS (CCO #30)

AS BUILT

CORRECTIONS BY R. AKKAWI
CONTRACT NO. 04-192234
DATE 9-19-97 10-12-98

A.M. MARQUEZ
DESIGN OVERSIGHT
6/7/93
SIGNOFF DATE

DESIGN	BY R. HOLT	CHECKED R. RUDOLPH
DETAILS	BY A. GRISWOLD	CHECKED R. RUDOLPH
QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

M. BENOIT
PROJECT ENGINEER

BRIDGE NO.
33-623S
POST MILE

MARITIME OFF-RAMP
GIRDER LAYOUT & ELEVATION - NO.12

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS
0 1 2 3

CU 04
EA 192231

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	3/7/92 1/14/92 2/26/93 3/7/93 5/14/93	46	138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4, 1.3/3.0	587	1412

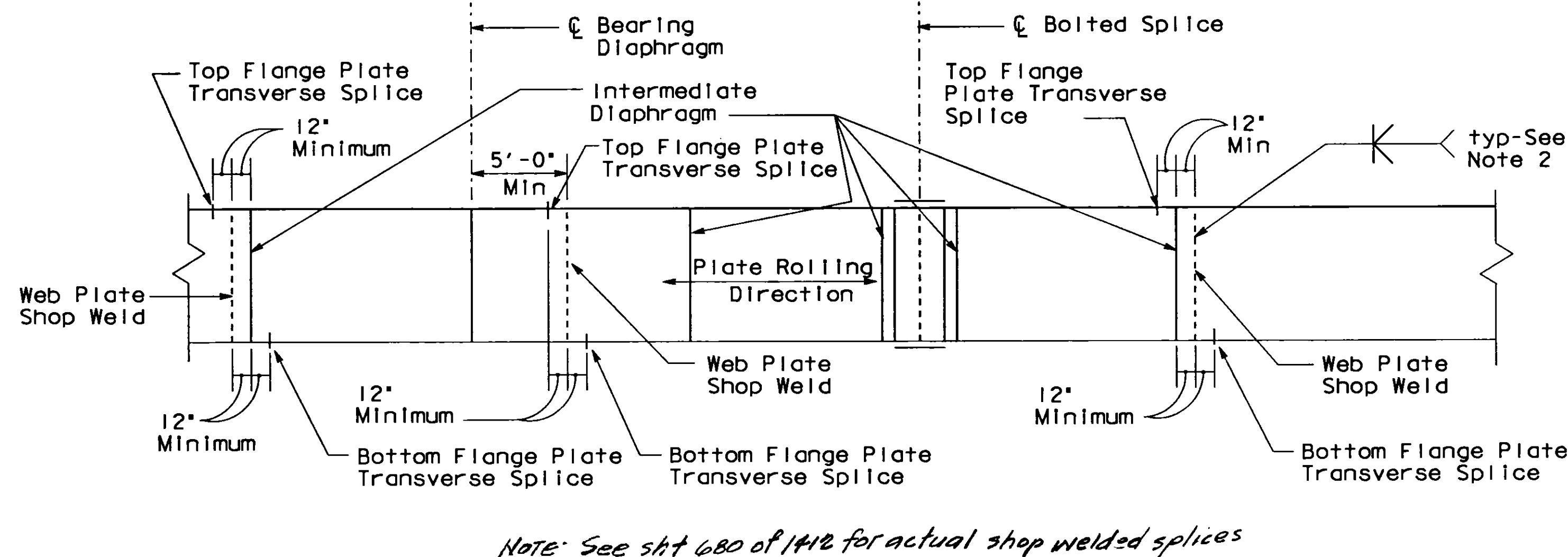
6-13-94
PLANS APPROVAL DATE

TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612

P.H. Benoit
REGISTERED CIVIL ENGINEER
No. C37895
Exp. 3/31/93

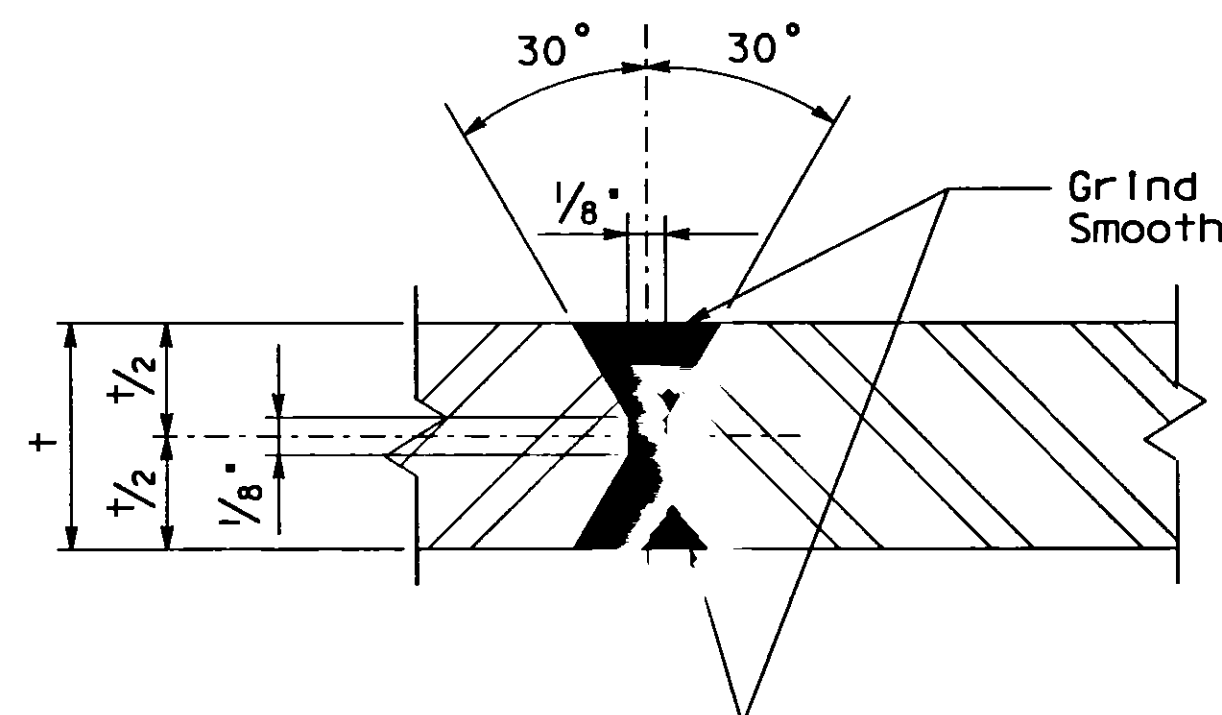
J. MICHEL BENOIT
REGISTERED PROFESSIONAL ENGINEER
No. C37895
Exp. 3/31/93
CIVIL
STATE OF CALIFORNIA

* PLATE	t
top	5/8"
bott.	3/4"
Int. web	1/2"
ext. web	3/4"

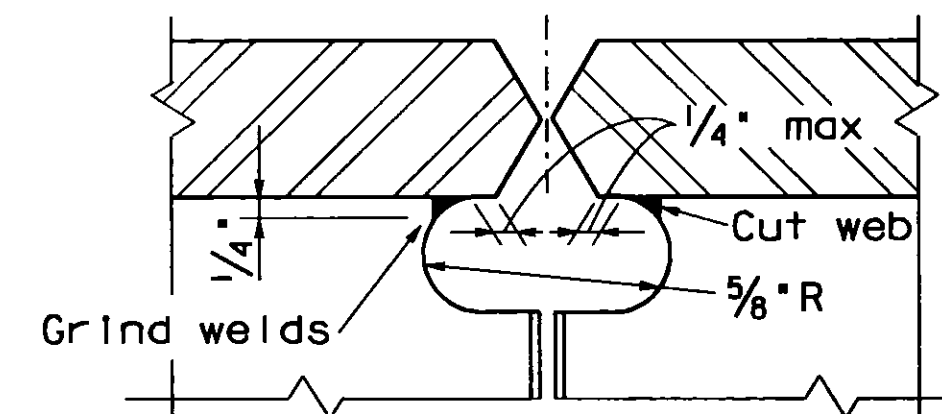


Note: See sht 680 of 1412 for actual shop welded splices

SHOP-WELDED SPLICE LOCATIONS
INTERIOR AND EXTERIOR GIRDER WEBS
3/16" = 1'-0"



TYPICAL WELD DETAIL
No Scale



WEB COPE
AT GIRDER SPLICE
No Scale

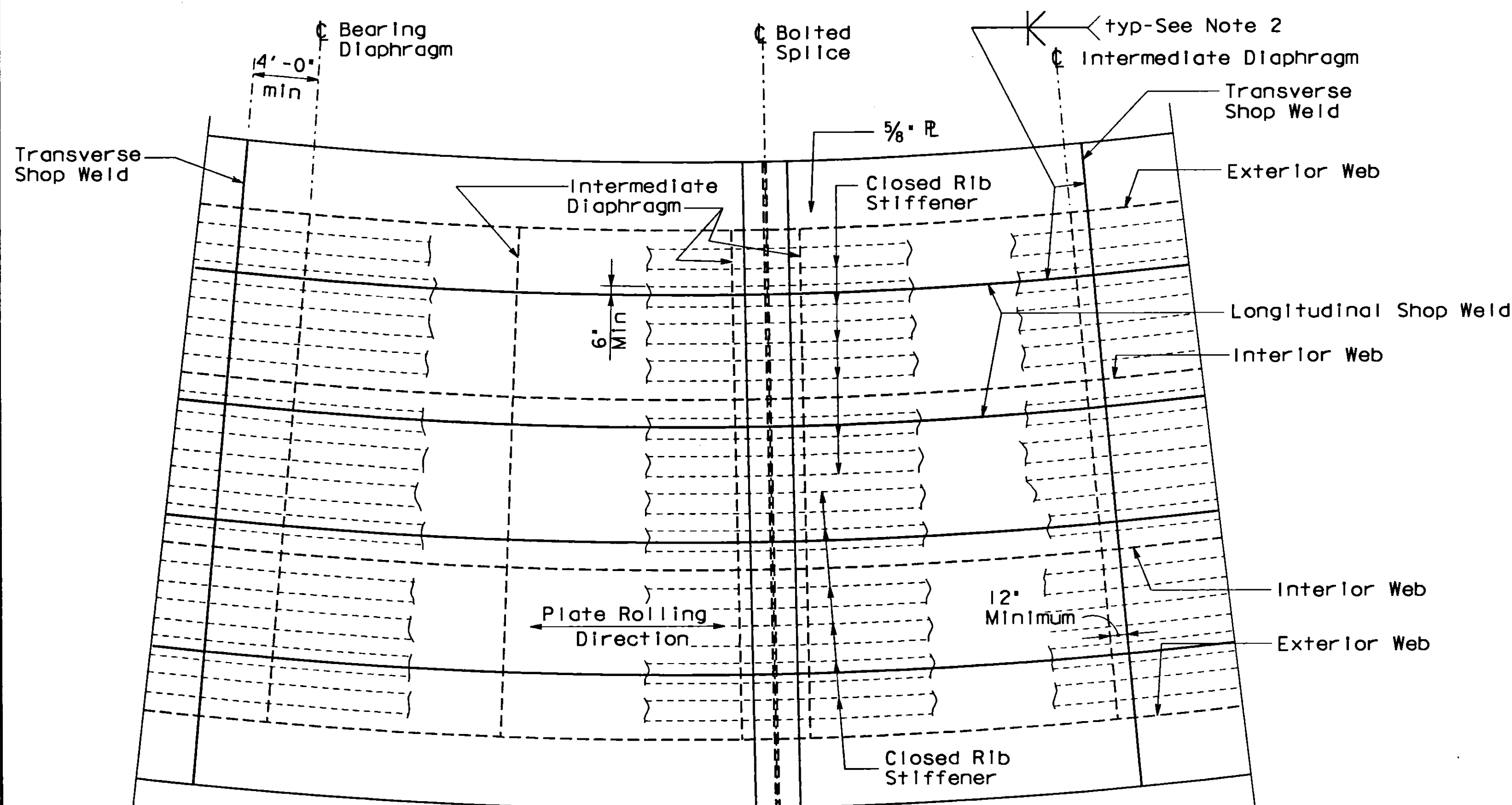
Note: Flange and web splices are staggered. Provide cope at both flange and web splices.

Notes:

1. This drawing shows minimum separation of shop-welded splices and minimum separation of shop-welded splices from other features.
2. Web butt joints shall be full penetration groove welds. All weld areas on the exterior face of inclined webs shall be ground flush.
Grind all surfaces flush on tension flanges. Grind all surfaces flush on compression flanges when required for NDI and on all exposed bottom soffits.
Grind interior transverse butt joints to allow flat fitup of webs of closed rib stiffeners against flange plates. Grind longitudinal butt joints at bolted field splice locations to allow complete flat fitup of splice plates.
3. Alternative girder splices will be permitted subject to approval by the Engineer.
4. Alternate prequalified AWS (American Welding Society) joint details may be approved by the Engineer.

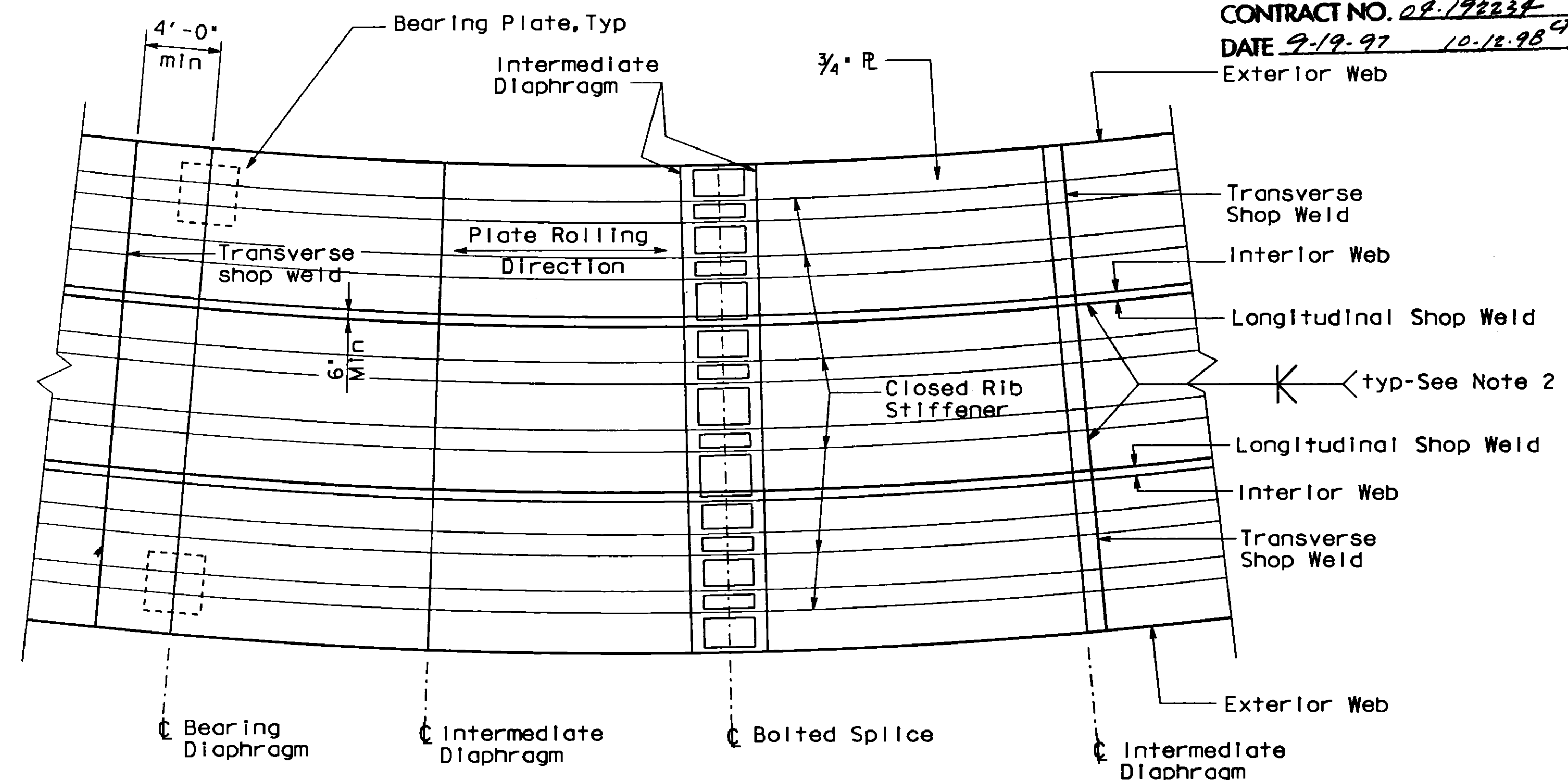
AS BUILT

CORRECTIONS BY **R. AKRAWI**
CONTRACT NO. **09-192231**
DATE **9-19-97 10-12-98**



SHOP-WELDED SPLICE LOCATIONS
TOP FLANGE PLATE
3/16" = 1'-0"

Note: Number of longitudinal welds shall not exceed four in top flange plate.



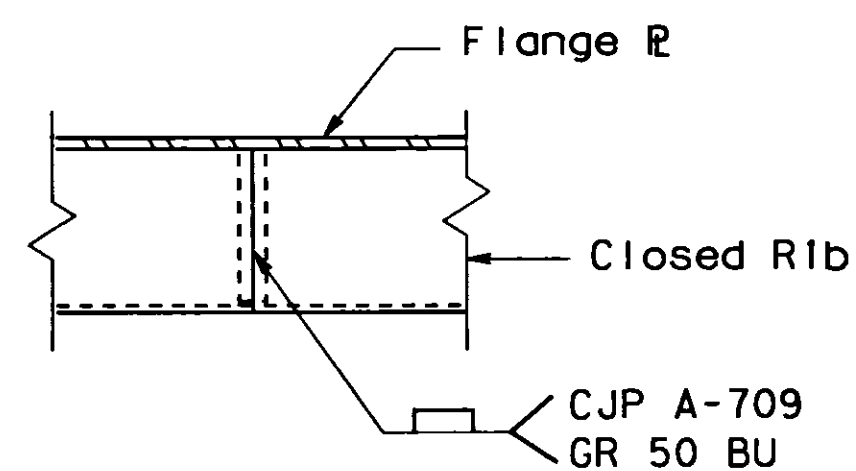
SHOP-WELDED SPLICE LOCATIONS
BOTTOM FLANGE PLATE
3/16" = 1'-0"

Note: Number of longitudinal welds shall not exceed two in bottom flange plate.

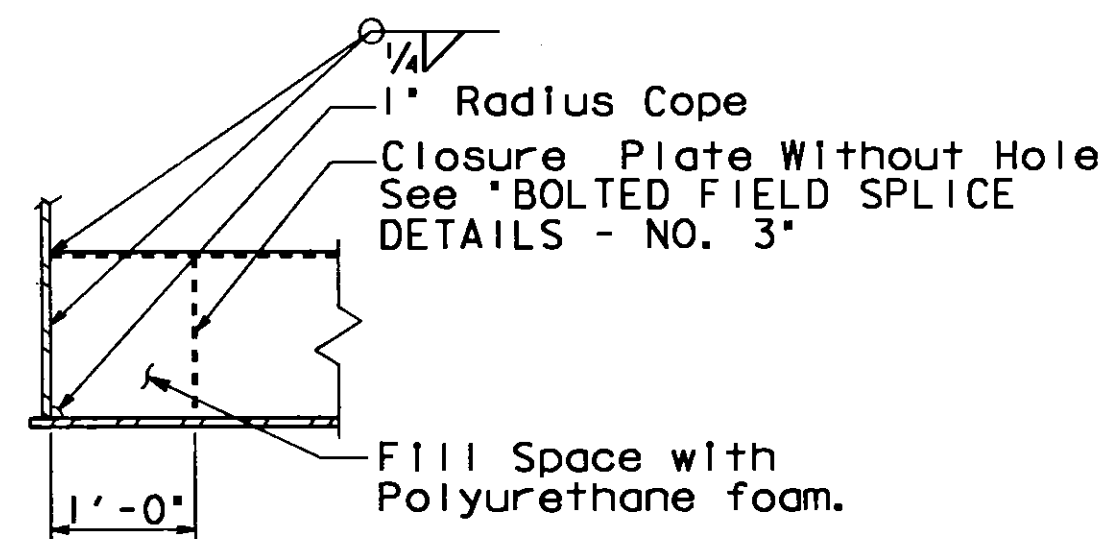
A.M. MARQUEZ DESIGN OVERSIGHT 9/14/93 SIGNOFF DATE	DESIGN	BY R. HOLT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO.	MARITIME OFF-RAMP SHOP-WELDED SPLICE LOCATIONS
	DETAILS	BY A. CANTILLER	CHECKED R. RUDOLPH			33-623S	
	QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN			POST MILE	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 04	EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
				REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
				0 1 2 3		47 138	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,80	34.4 1.3/3.0	682	1412

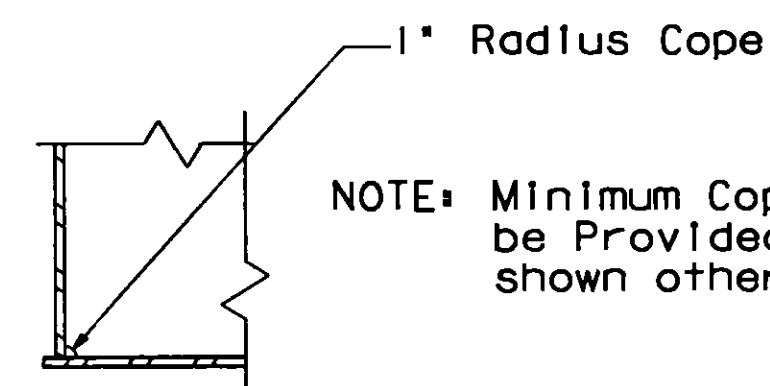
P.M. Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612



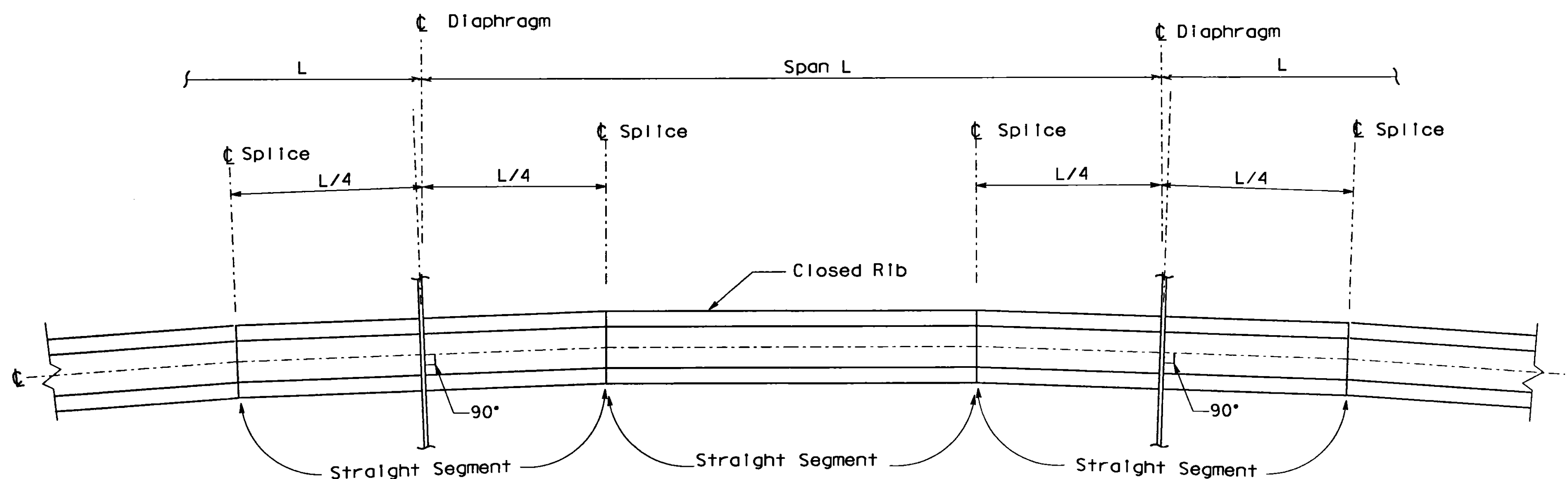
TYPICAL CLOSED RIB BUTT WELD
DETAIL
 $\frac{3}{4}'' = 1' - 0''$



TYPICAL DETAIL FOR CLOSED
RIB AT END DIAPHRAGM
 $\frac{3}{4}'' = 1' - 0''$



TYPICAL COPE DETAIL
 $\frac{3}{4}'' = 1' - 0''$



CLOSED RIB OPTION USING
STRAIGHT CLOSED RIB SEGMENTS
 $\frac{3}{4}'' = 1' - 0''$

NOTES:

- Contractor may substitute closed ribs fabricated using straight segments as an alternate option to the curved closed ribs.
- Straight segments shall be a maximum of L/2 in length.
- Closed rib splices shall be located at L/4 locations within each closed rib span.
- Contractor shall locate longitudinal splices to avoid conflicts with straight closed rib segments.

GENERAL SEALING REQUIREMENTS:

- In addition to the specific closed rib sealing details shown on these drawings, the contractor shall seal all closed rib and interior spaces of the bridge which are exposed to the atmosphere and not readily accessible for maintenance.
- Polyurethane foam shall be injected through cope holes and the cope holes then sealed in accord with the standard special provisions of the specification.
- Interior closure plates may be installed to reduce the quantity of foam. See SECTION A-A and SECTION B-B on "BOLTED FIELD SPLICE DETAILS - NO. 3" sheet for typical closure plate and welding details. See also TYPICAL DETAIL FOR CLOSED RIB AT END DIAPHRAGM on "GIRDER DETAILS" sheet.
- The contractor shall indicate all closure plates and their locations on the working drawings. The location and welding of closure plates shall be approved by the Engineer.

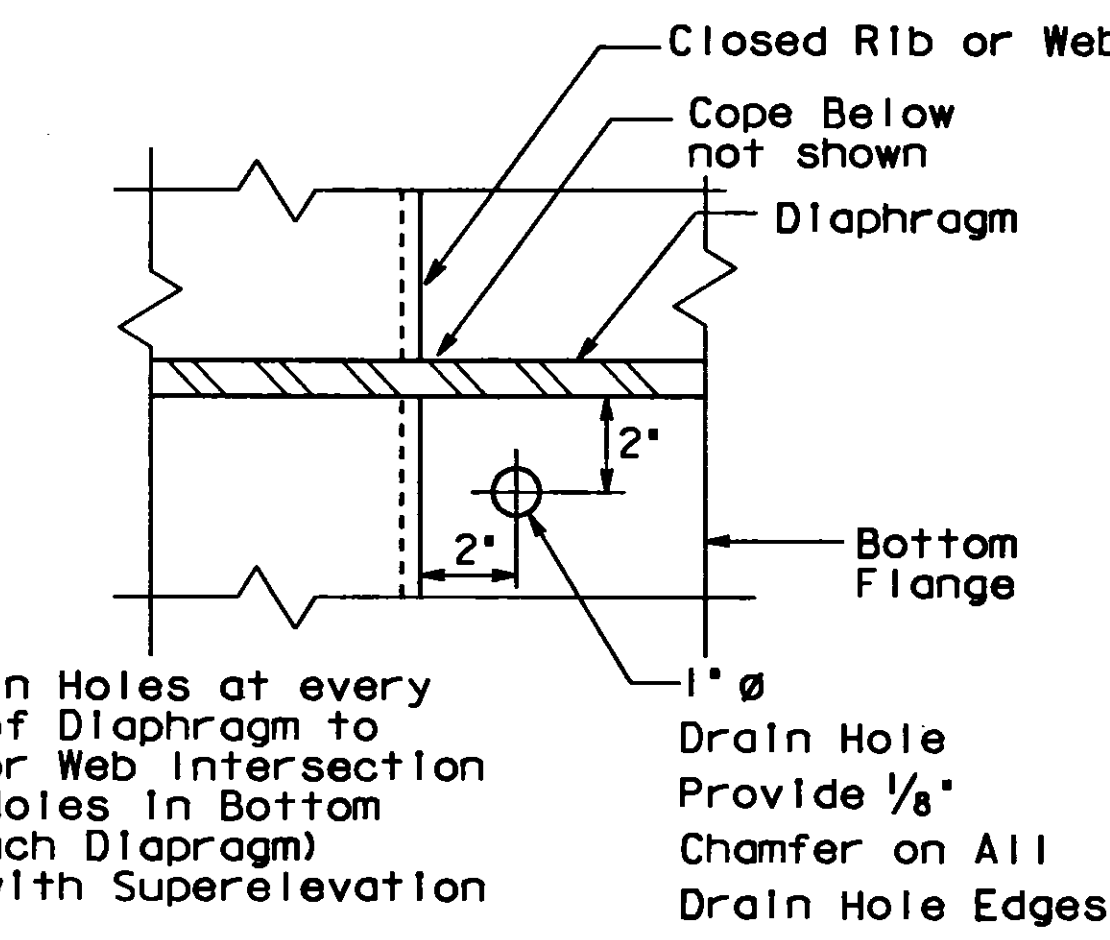
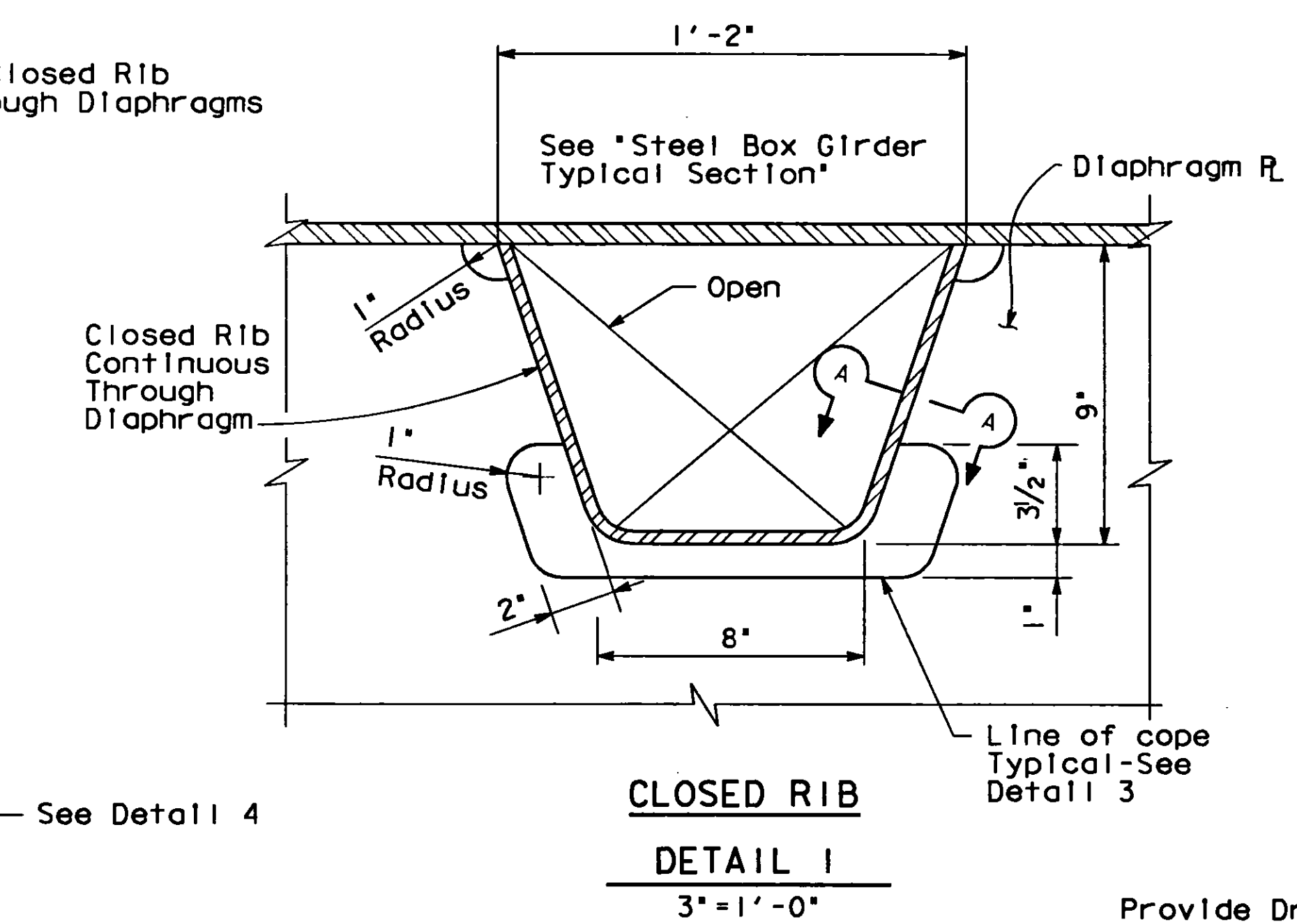
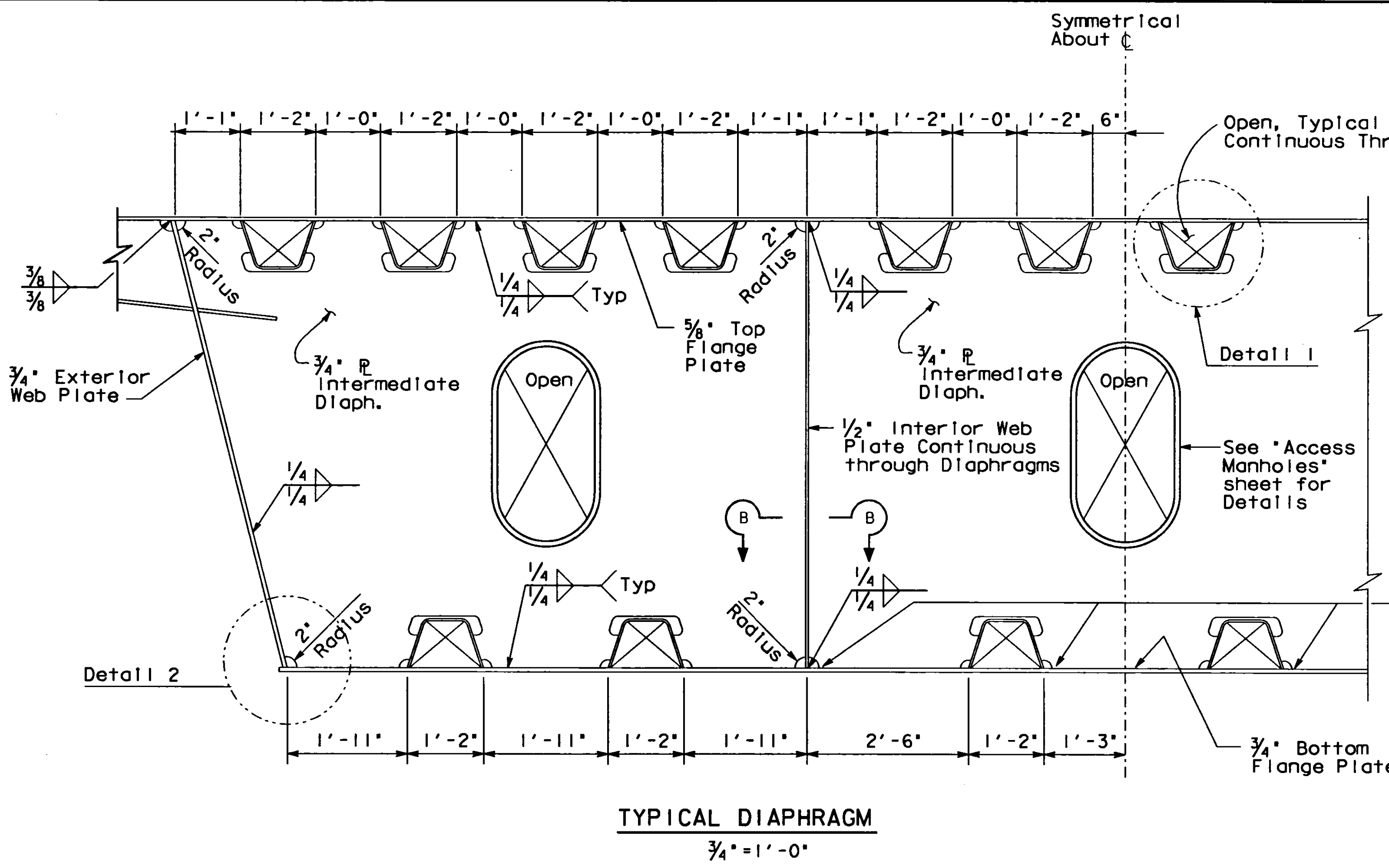
NO AS BUILT CHANGES
AS BUILT

CORRECTIONS BY *R. ARKANI*
CONTRACT NO. *04-192229*
DATE *9-19-97* *10-12-98*

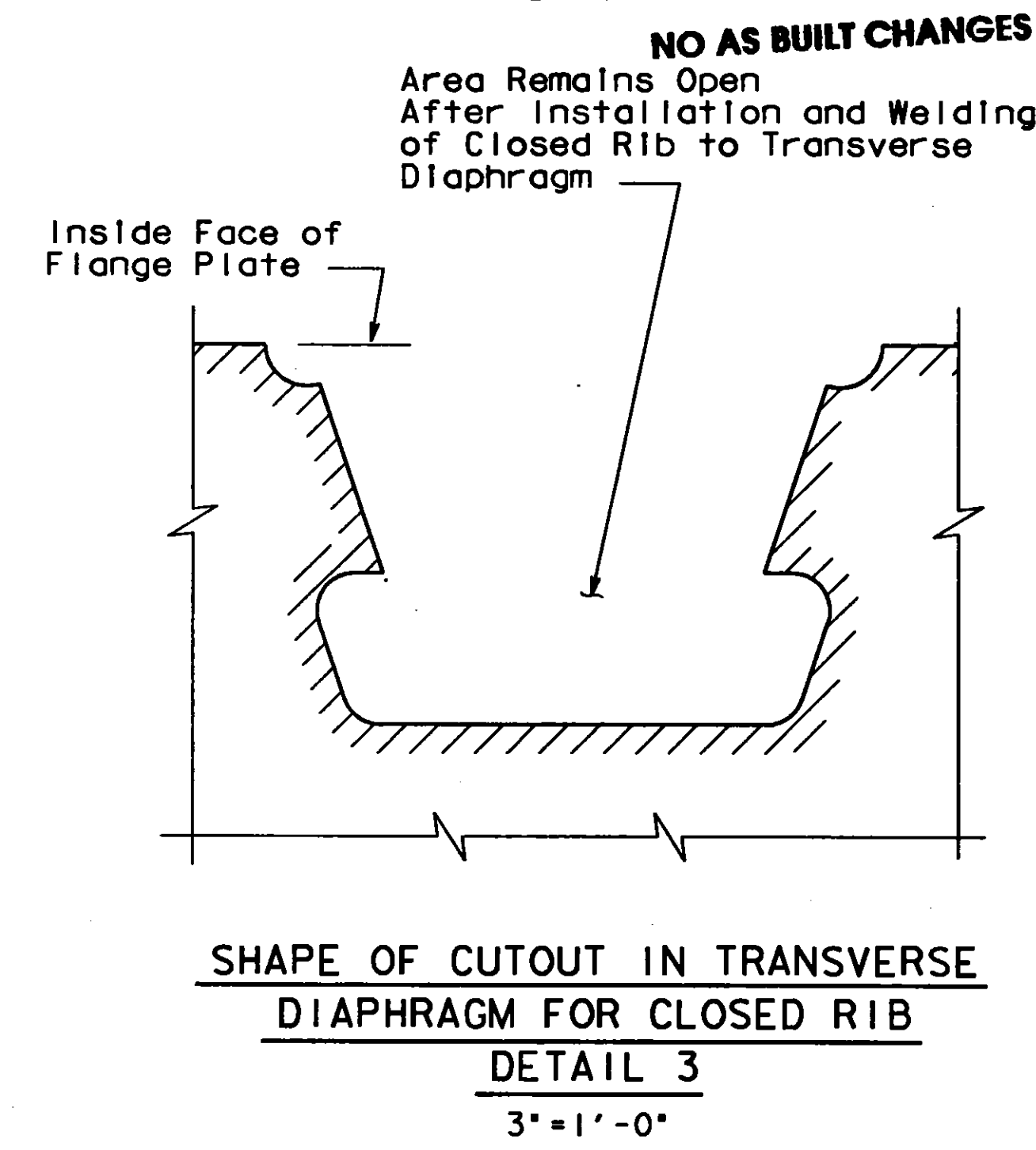
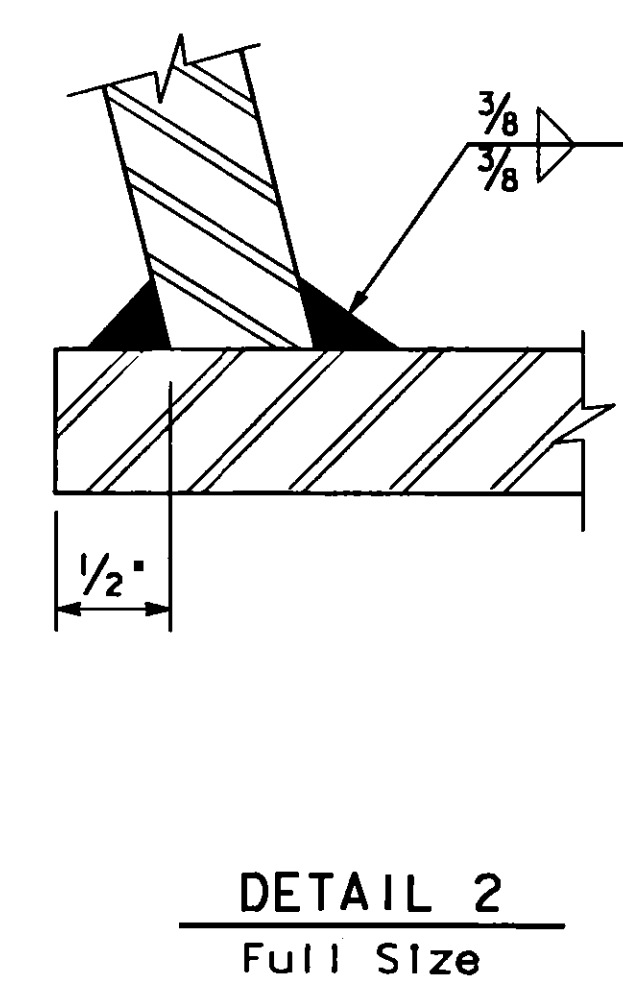
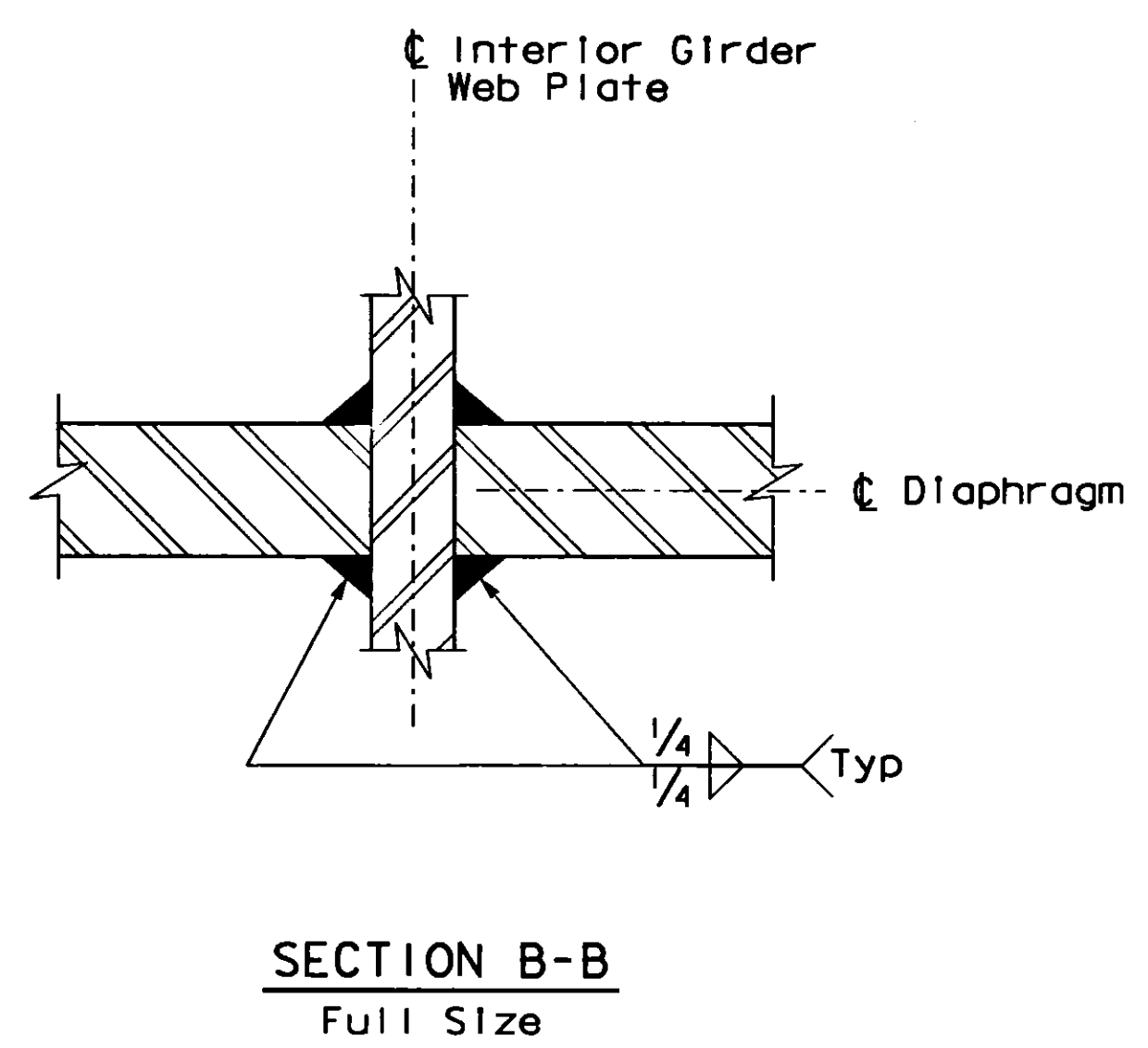
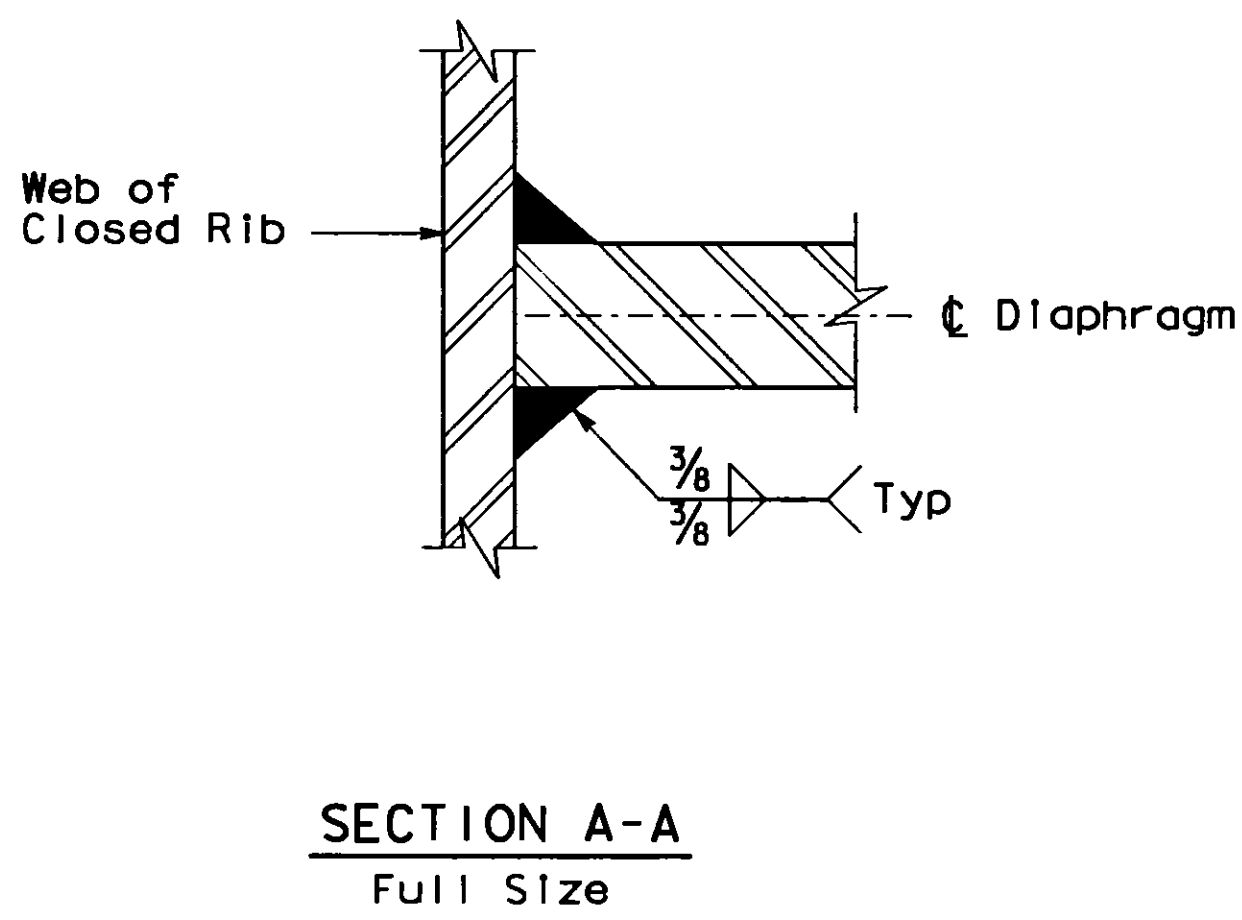
<i>A.M. A.M. MARQUEZ</i> DESIGN OVERSIGHT SIGNOFF DATE <i>9/14/93</i>	DESIGN BY M. O'SULLIVAN	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-623S	MARITIME OFF-RAMP GIRDER DETAILS	
	DETAILS BY A.G. RAO	CHECKED R. RUDOLPH		QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN		POST MILE
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 9/14/93 11/14/93 2/26/93 3/31/93 5/14/93 6/14/93 7/15/93 8/11/93	SHEET 48 OF 138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880, 80	34.4 1:3/3.0	683	1412

P.H. Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612



Provide Drain Holes at every Low Corner of Diaphragm to Closed Rib or Web Intersection (Approx. 9 Holes in Bottom Flange at Each Diaphragm) Coordinate with Superelevation



A.M.M. MARQUEZ
DESIGN OVERSIGHT
SIGNOFF DATE 9/14/93

DESIGN	BY R. HOLT	CHECKED R. RUDOLPH
DETAILS	BY A. GRISWOLD	CHECKED R. RUDOLPH
QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

M. BENOIT
PROJECT ENGINEER

BRIDGE NO.
33-623S
POST MILE

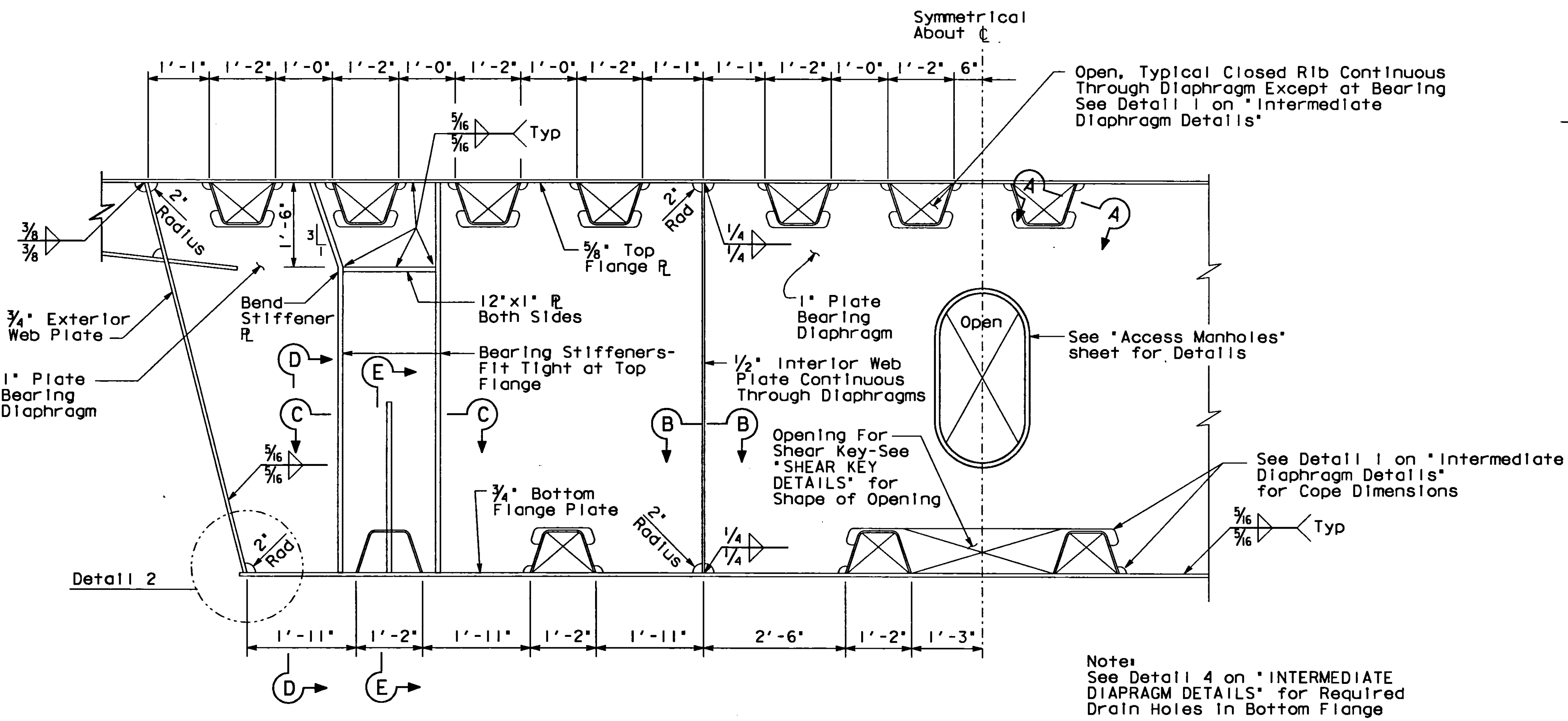
MARITIME OFF-RAMP
INTERMEDIATE DIAPHRAGM DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 49 OF 138
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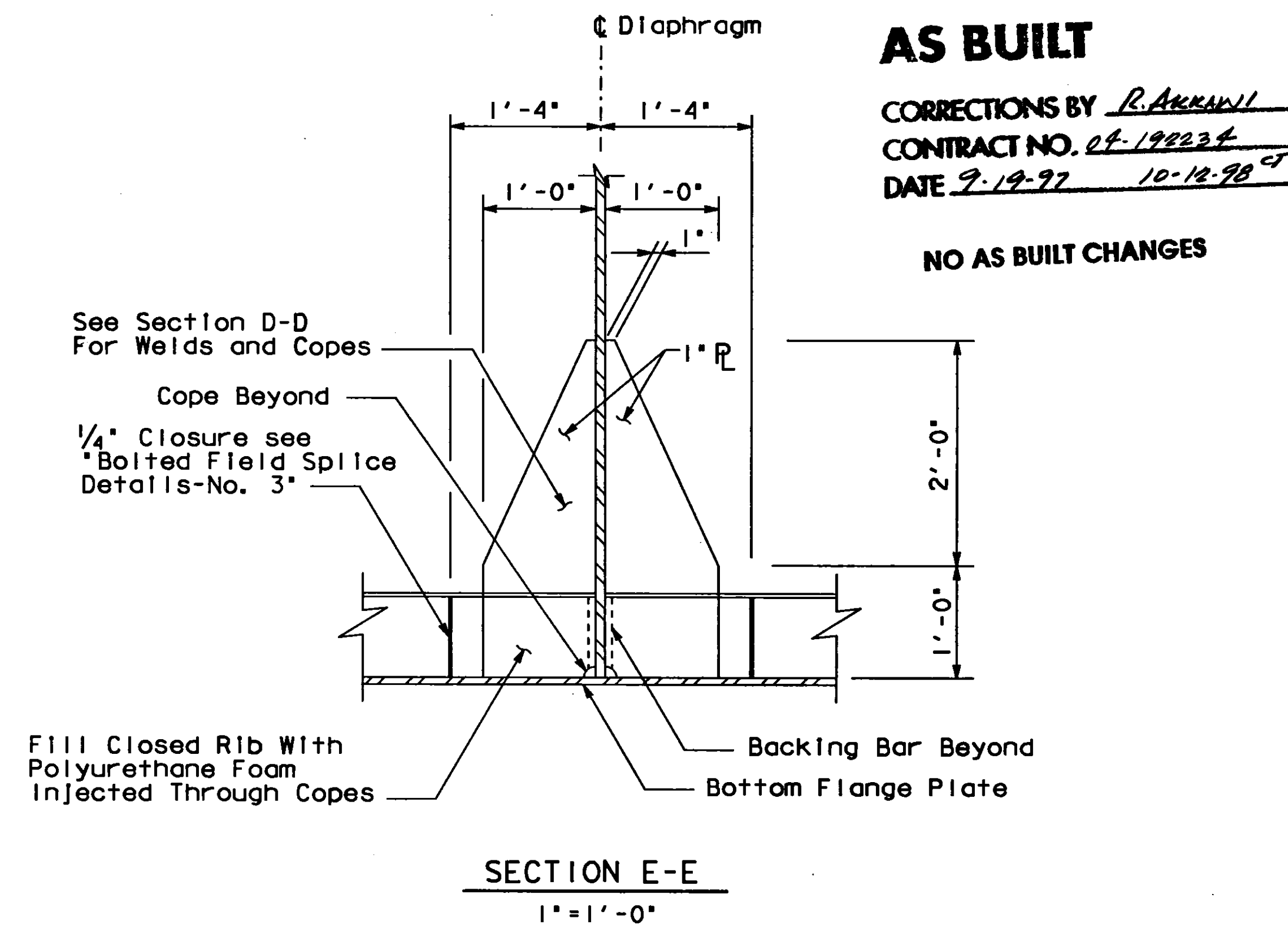
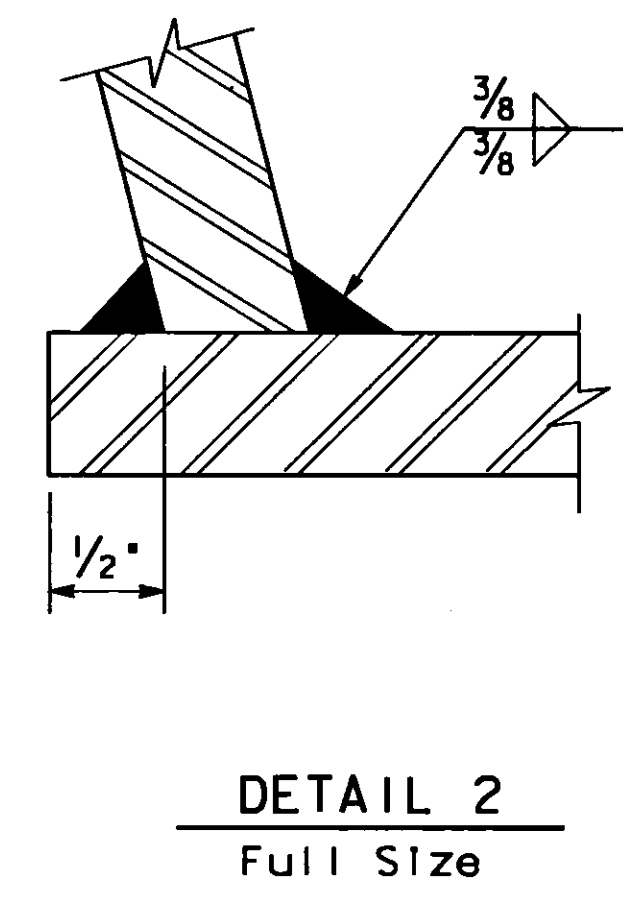
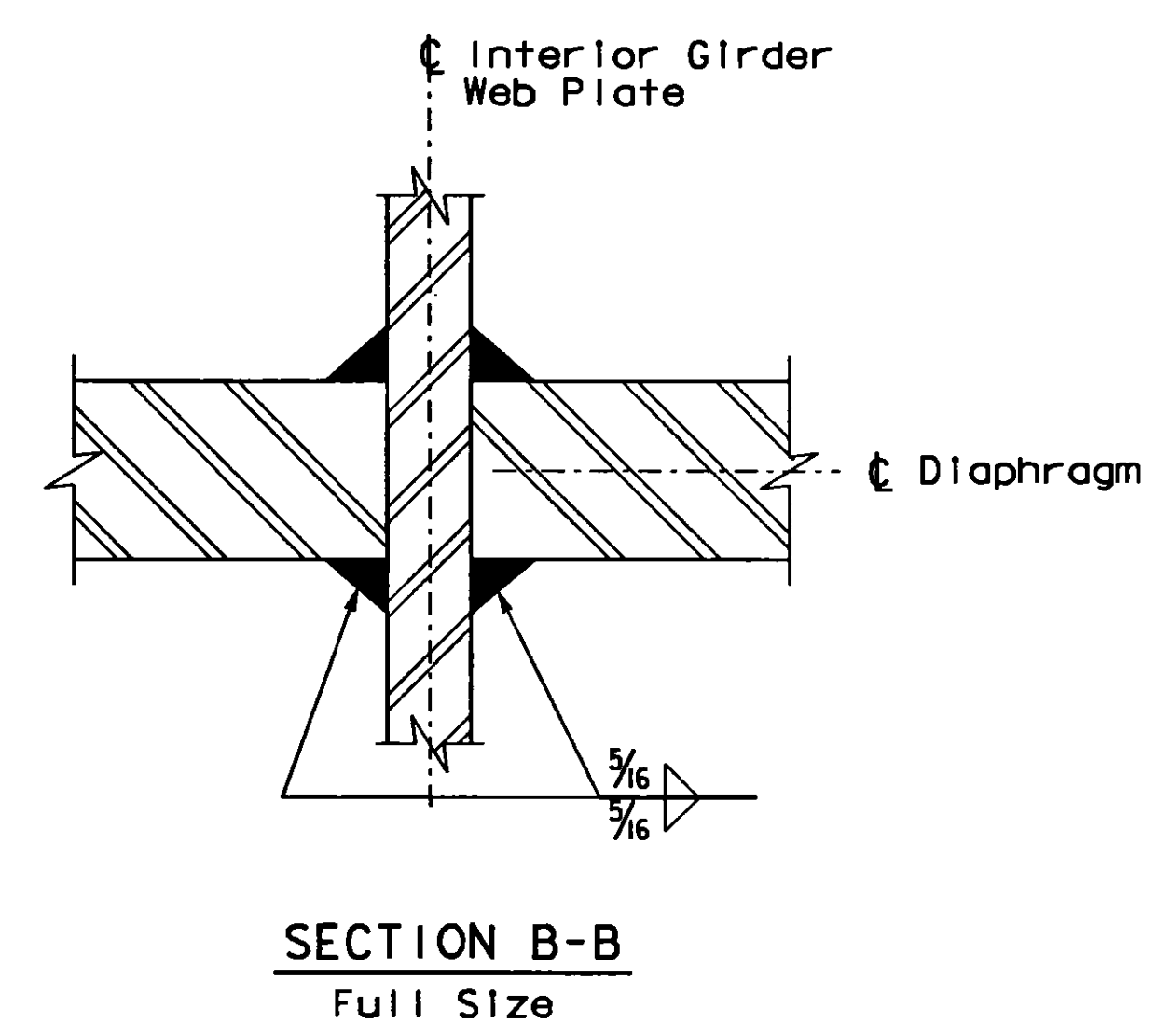
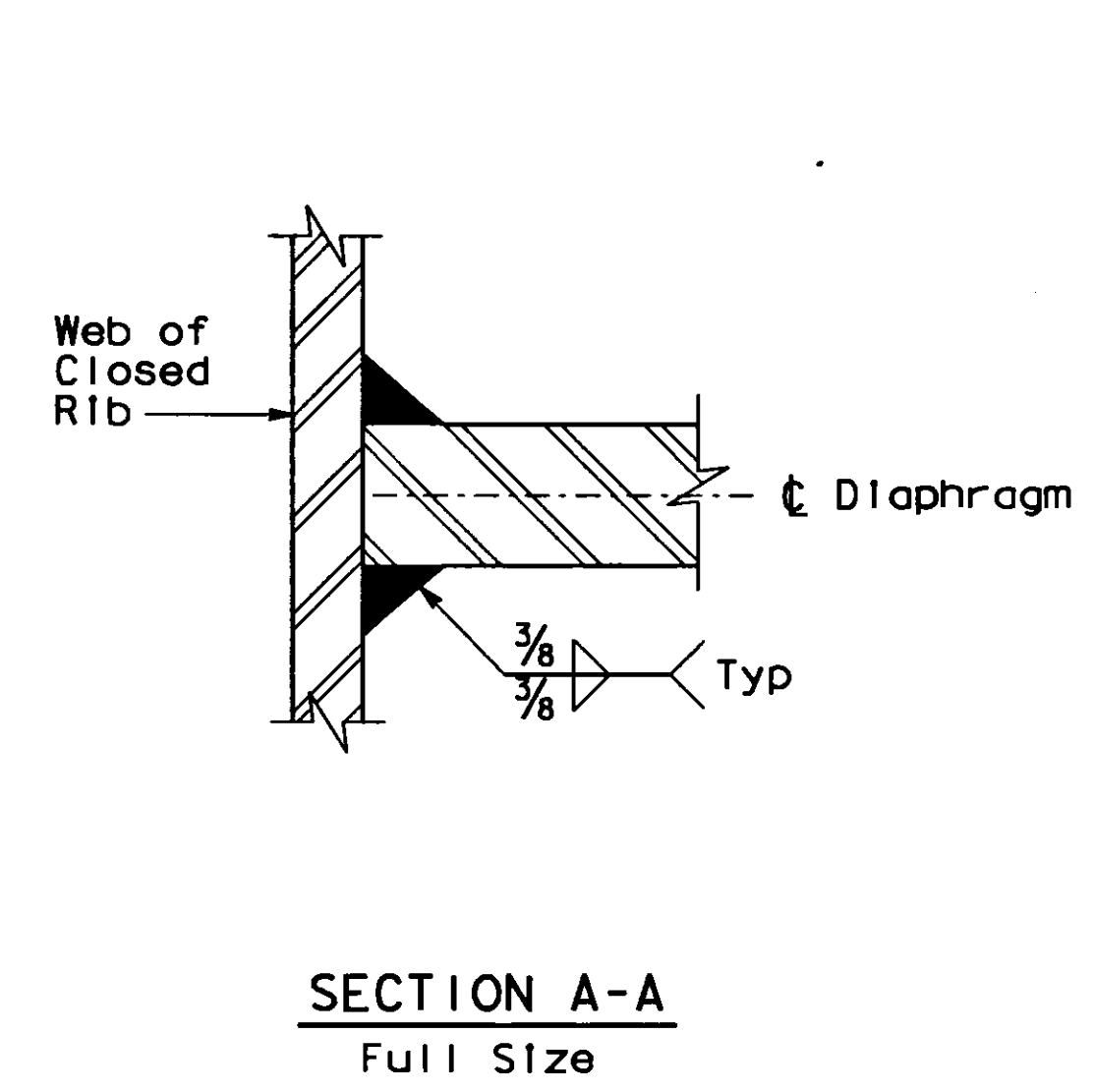
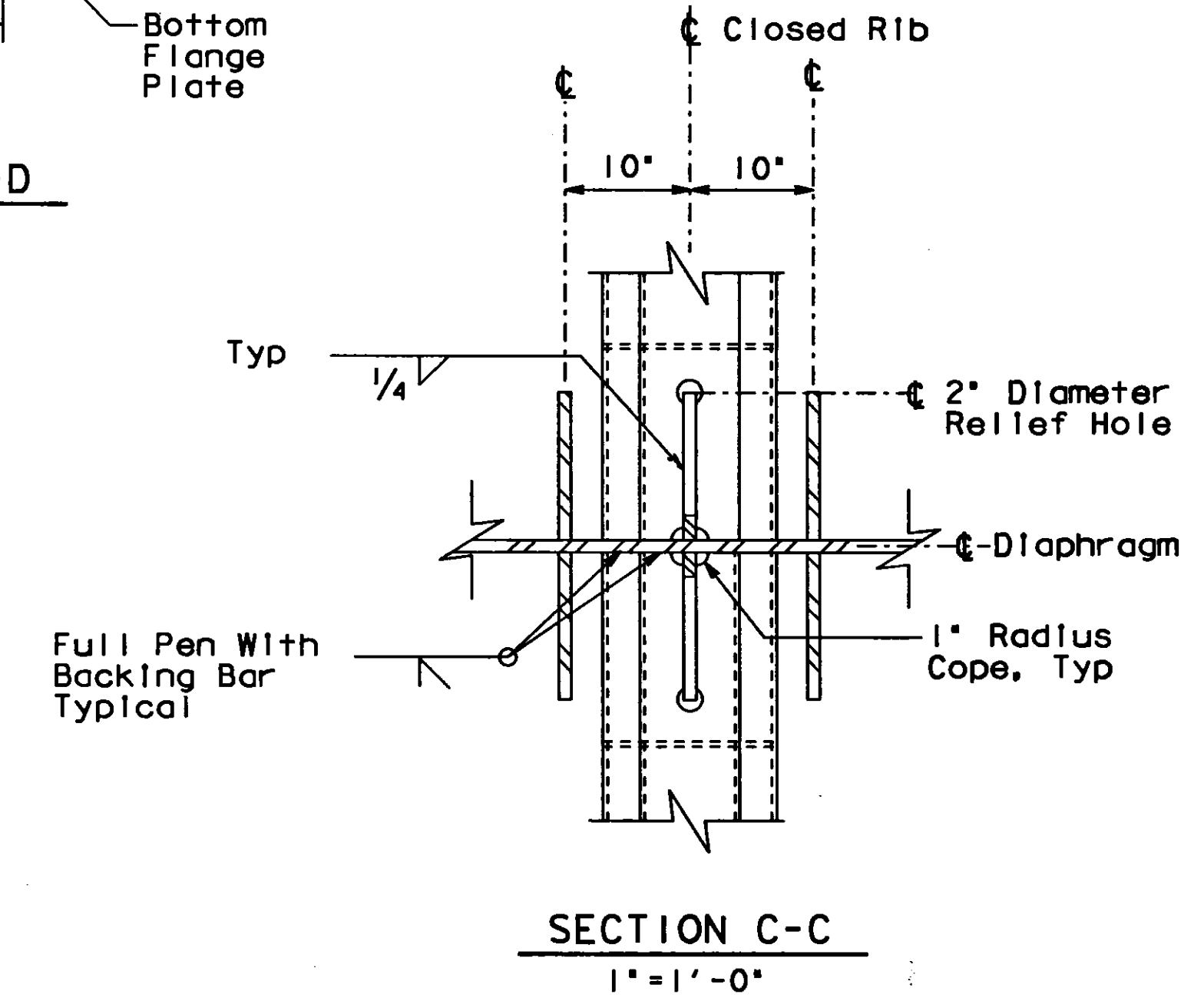
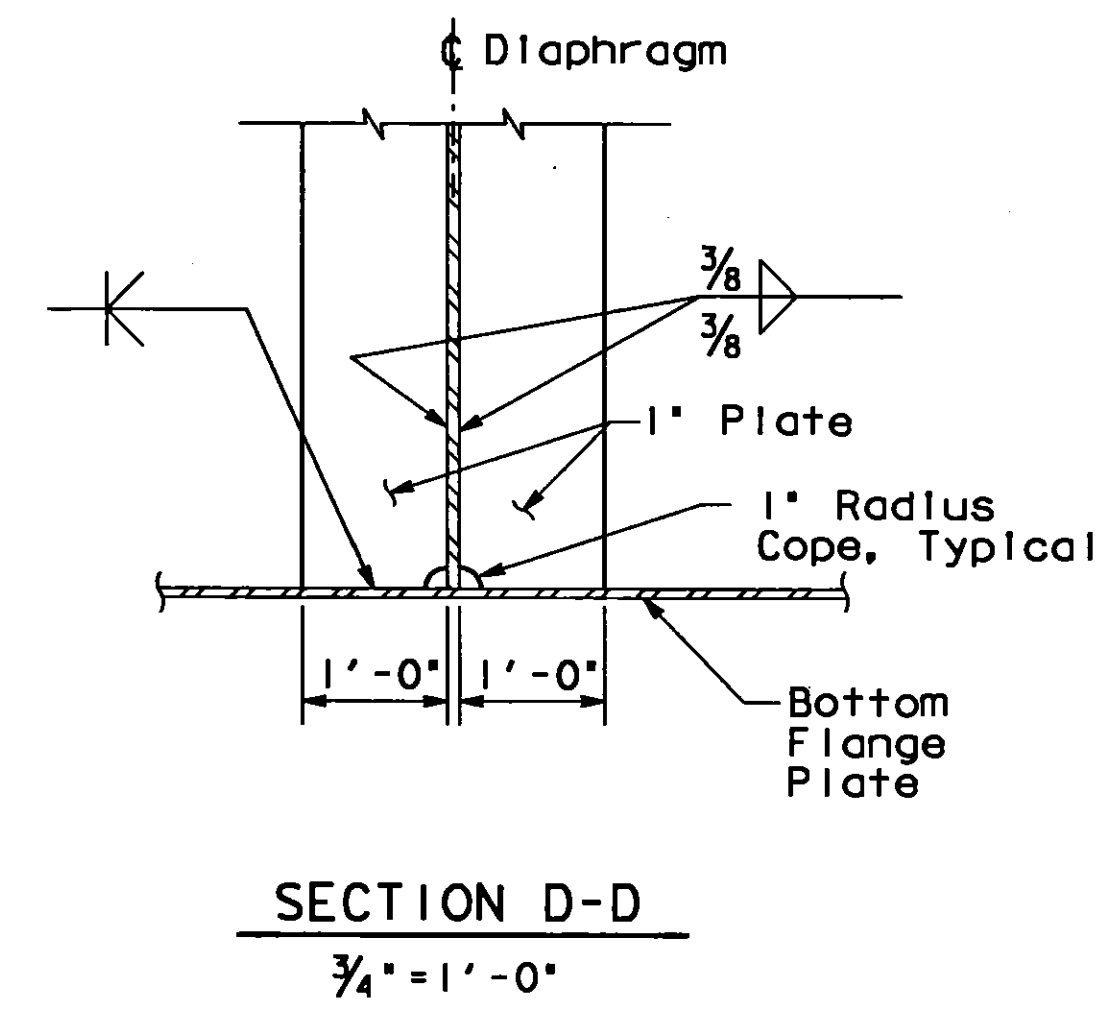
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880, 80	34.4, 1.3/3.0	684	1412

P. H. Benoit
 REGISTERED CIVIL ENGINEER
 6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612

REGISTERED PROFESSIONAL ENGINEER
 J. MICHEL BENOIT
 No. C37895
 Exp. 3/31/97
 CIVIL
 STATE OF CALIFORNIA



TYPICAL BEARING DIAPHRAGM
3/4" = 1'-0"

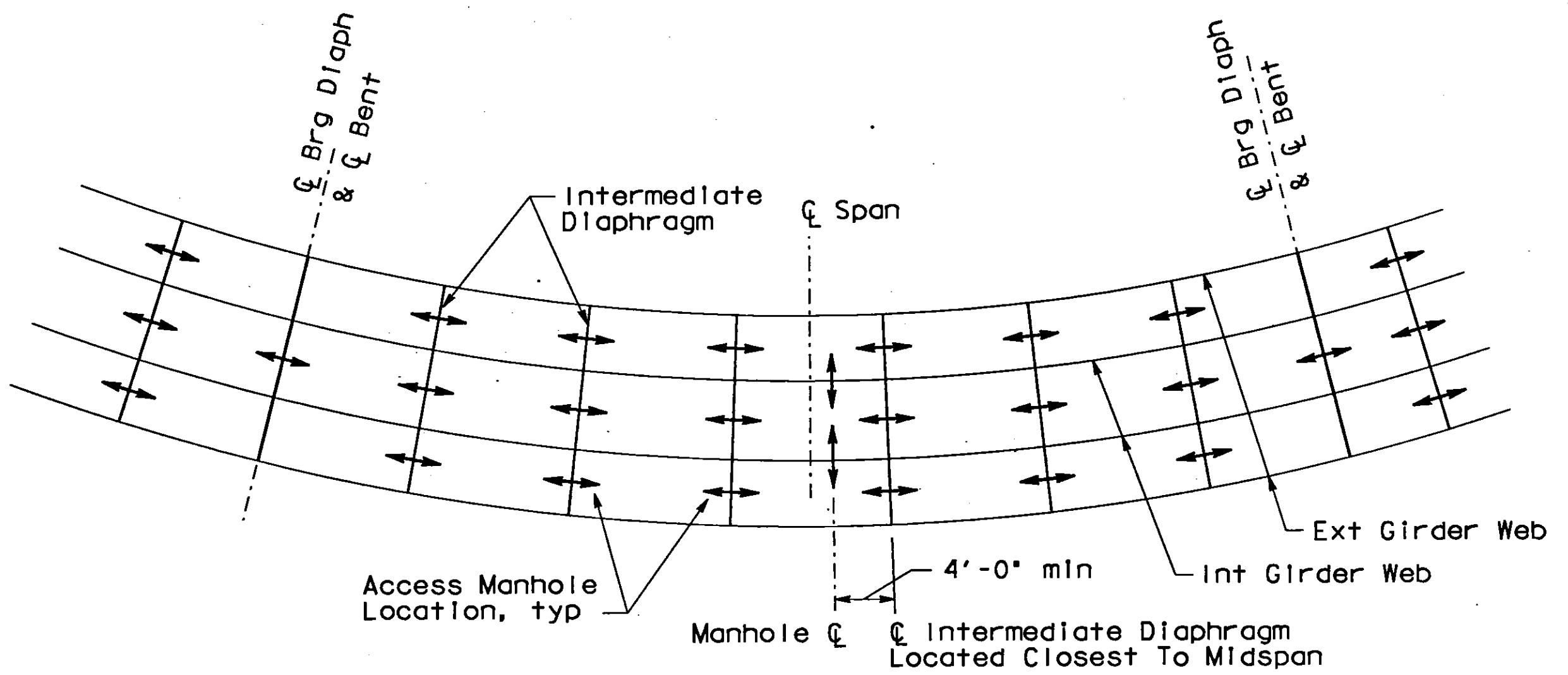


A. M. MARQUEZ DESIGN OVERSIGHT 9/14/93 SIGNOFF DATE	DESIGN	BY M. O'SULLIVAN	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO.	33-623S	MARITIME OFF-RAMP BEARING DIAPHRAGM DETAILS
	DETAILS	BY D. BRAVO	CHECKED R. RUDOLPH			POST MILE		
	QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN			REVISION DATES (PRELIMINARY STAGE ONLY)	7/10/92 11/16/92 2/26/93 3/31/93 5/14/93 6/11/93 8/11/93	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 04 EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 50	OF 138

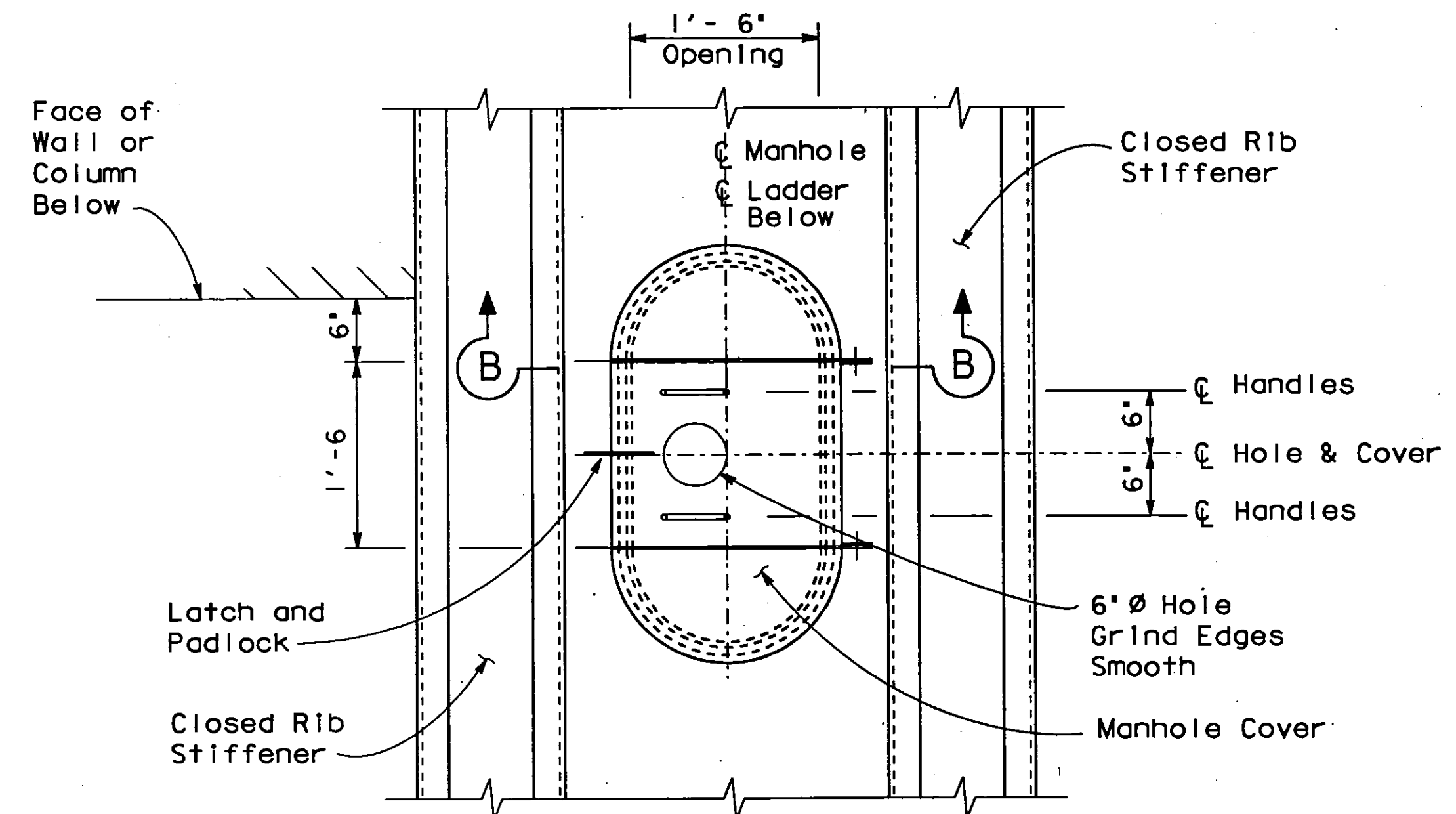
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880, 80	34.4 1.3/3.0	685	1412

J. M. BENOIT
 REGISTERED CIVIL ENGINEER
 6-13-94
 PLANS APPROVAL DATE
 TUDOR ENGINEERING COMPANY
 1800 HARRISON STREET
 OAKLAND, CA 94612

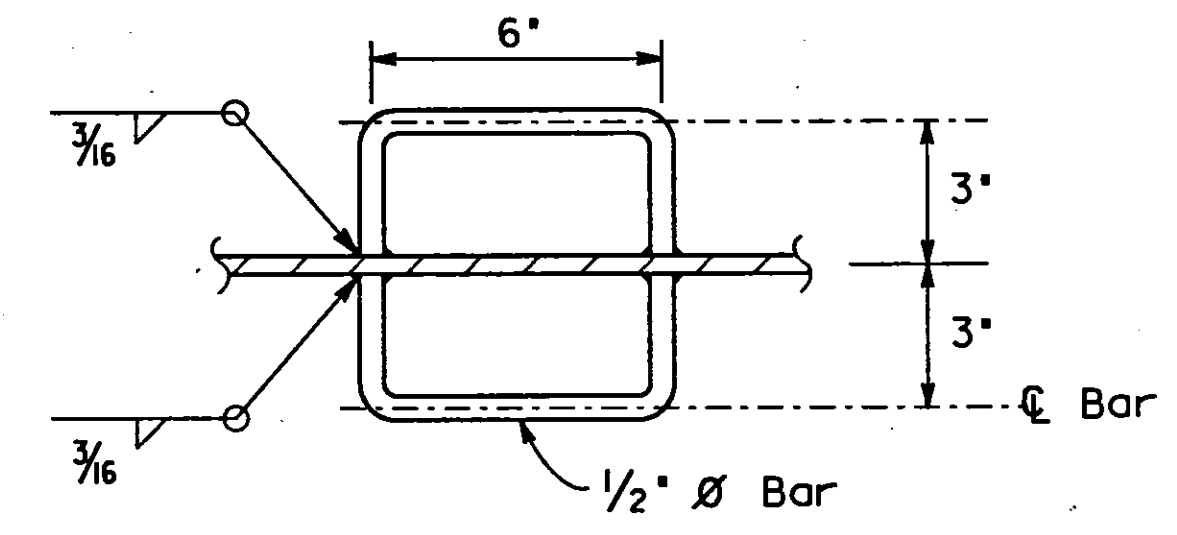
REGISTERED PROFESSIONAL ENGINEER
 J. MICHEL BENOIT
 No. C37895
 Exp. 3/31/97
 CIVIL
 STATE OF CALIFORNIA



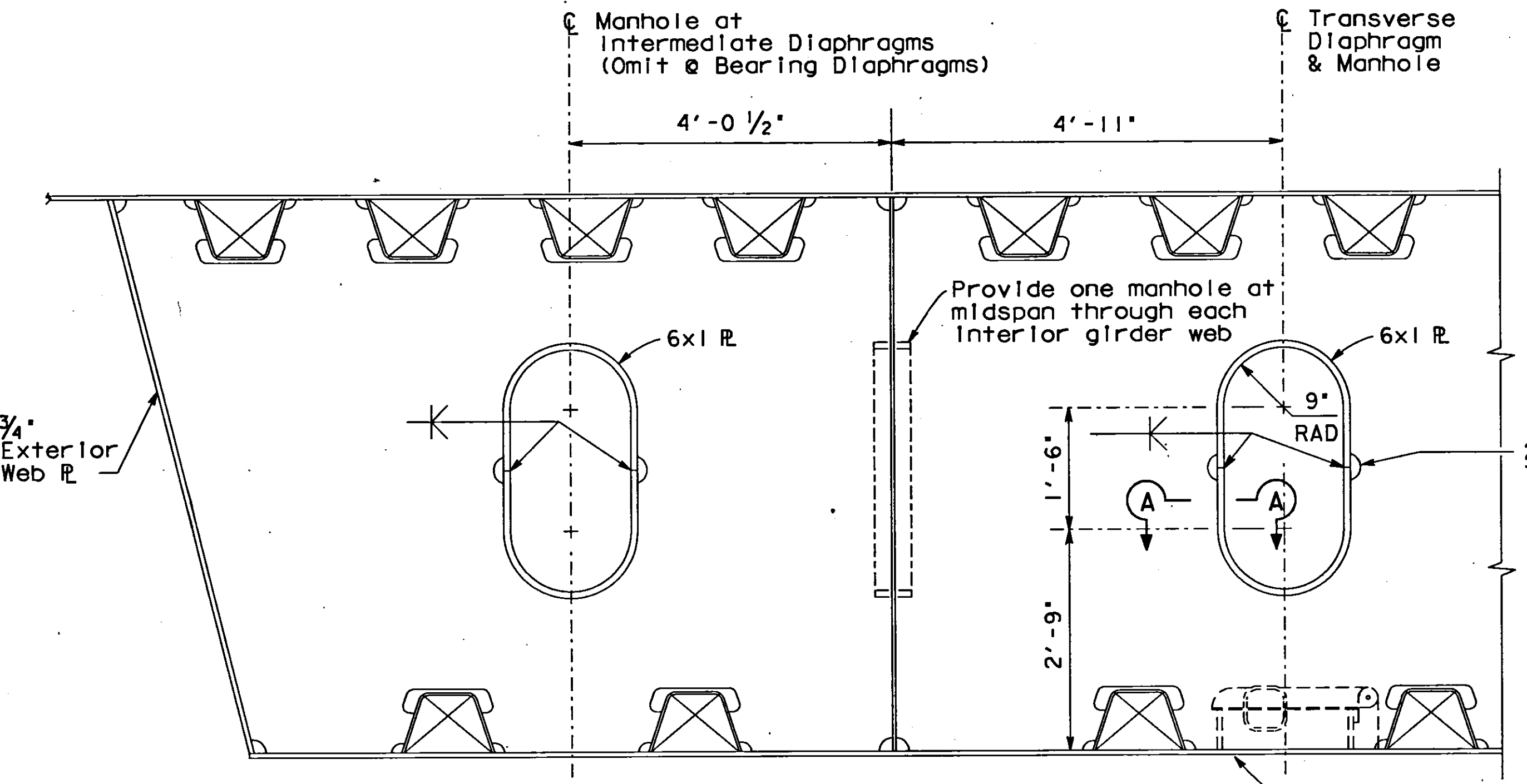
ACCESS MANHOLE SCHEMATIC LAYOUT PLAN



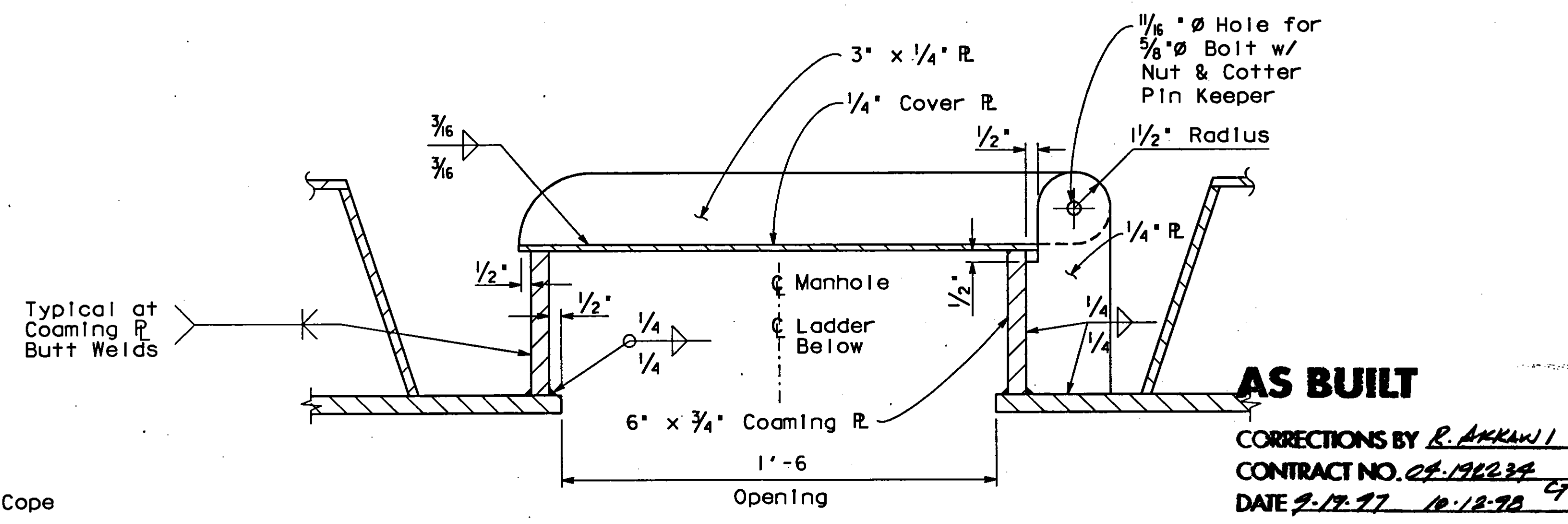
PLAN OF ACCESS MANHOLE IN BOTTOM FLANGE PLATE
1'-6"



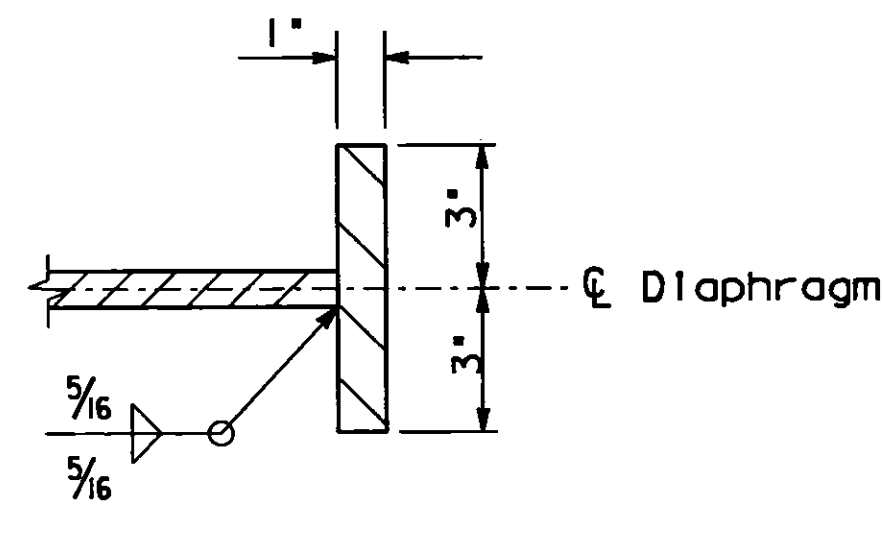
HANDLE DETAIL
2 REQ'D EACH ACCESS MANHOLE COVER
3'-1'-0"



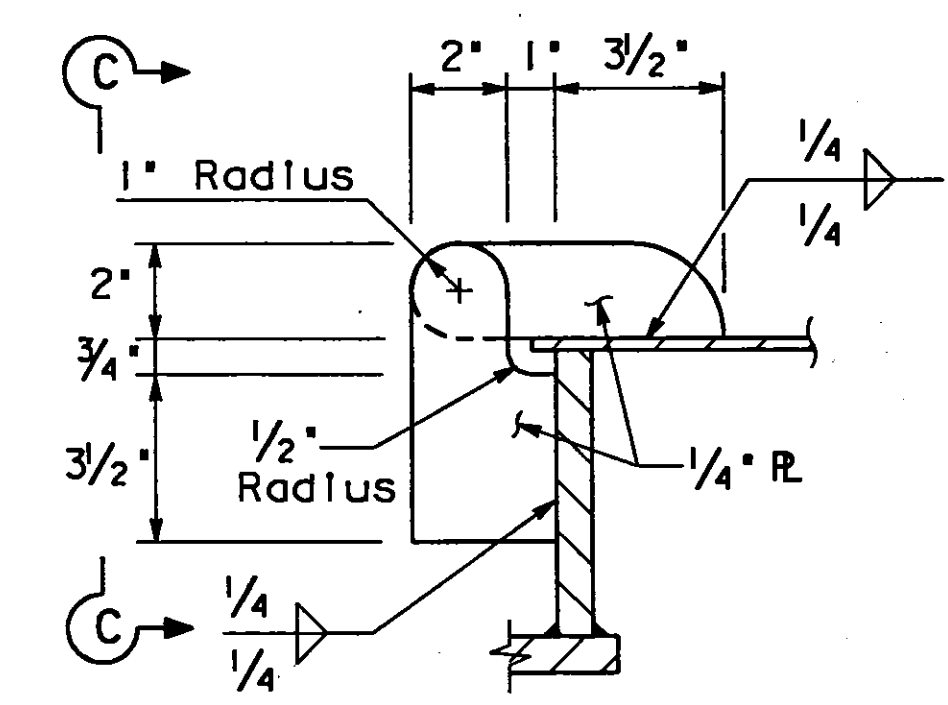
LOCATION OF ACCESS MANHOLES AT TRANSVERSE DIAPHRAGMS
3/4'-1'-0"



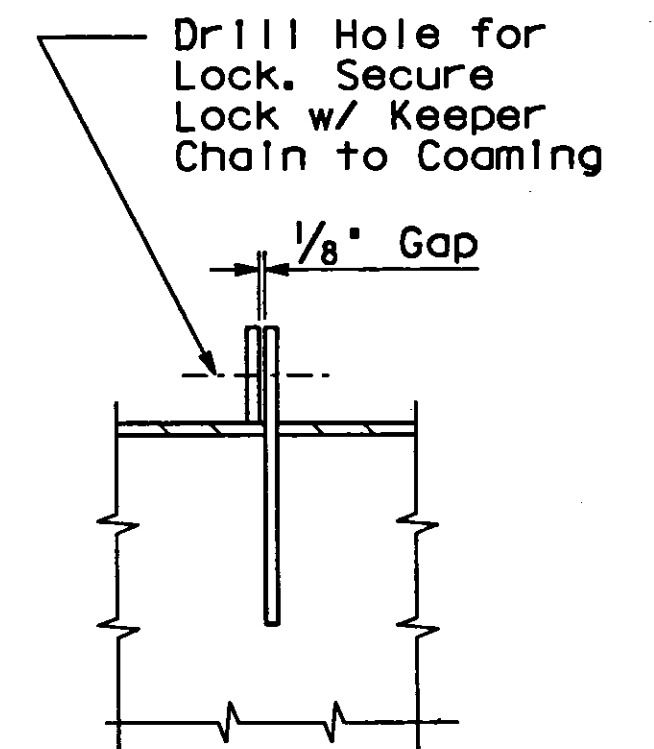
SECTION B-B
3'-1'-0"



SECTION A-A
3'-1'-0"



LATCH DETAIL I
3'-1'-0"



SECTION C-C
3'-1'-0"

AS BUILT
CORRECTIONS BY R. ANKAWI
CONTRACT NO. 04-192234
DATE 9-17-97 10-12-98

NO AS BUILT CHANGES

A.M. MARQUEZ
DESIGN OVERSIGHT
6/7/93
SIGNOFF DATE

DESIGN	BY M. O'SULLIVAN	CHECKED R. RUDOLPH
DETAILS	BY A. CANTILLER	CHECKED R. RUDOLPH
QUANTITIES	BY E. BOUGANOS	CHECKED R. MCLAUGHLIN

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

M. BENOIT
PROJECT ENGINEER

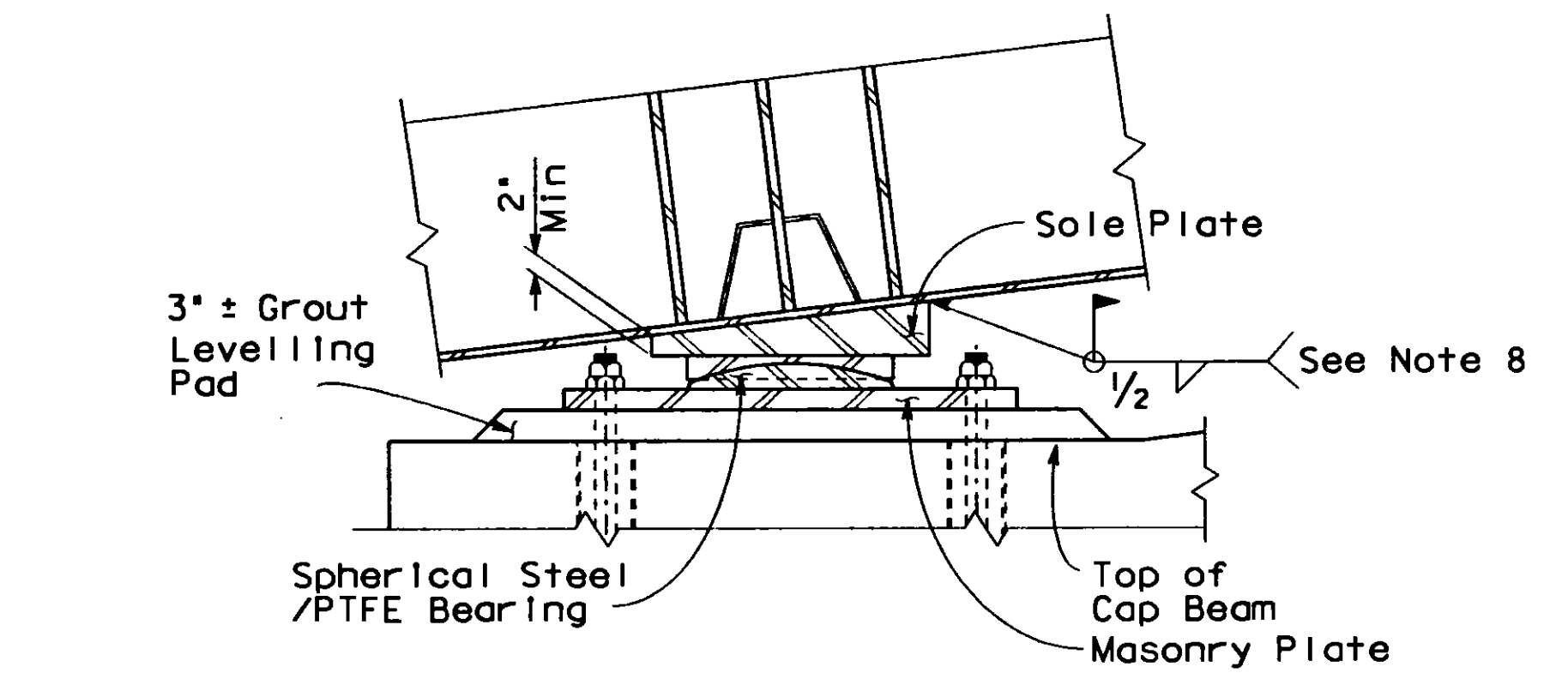
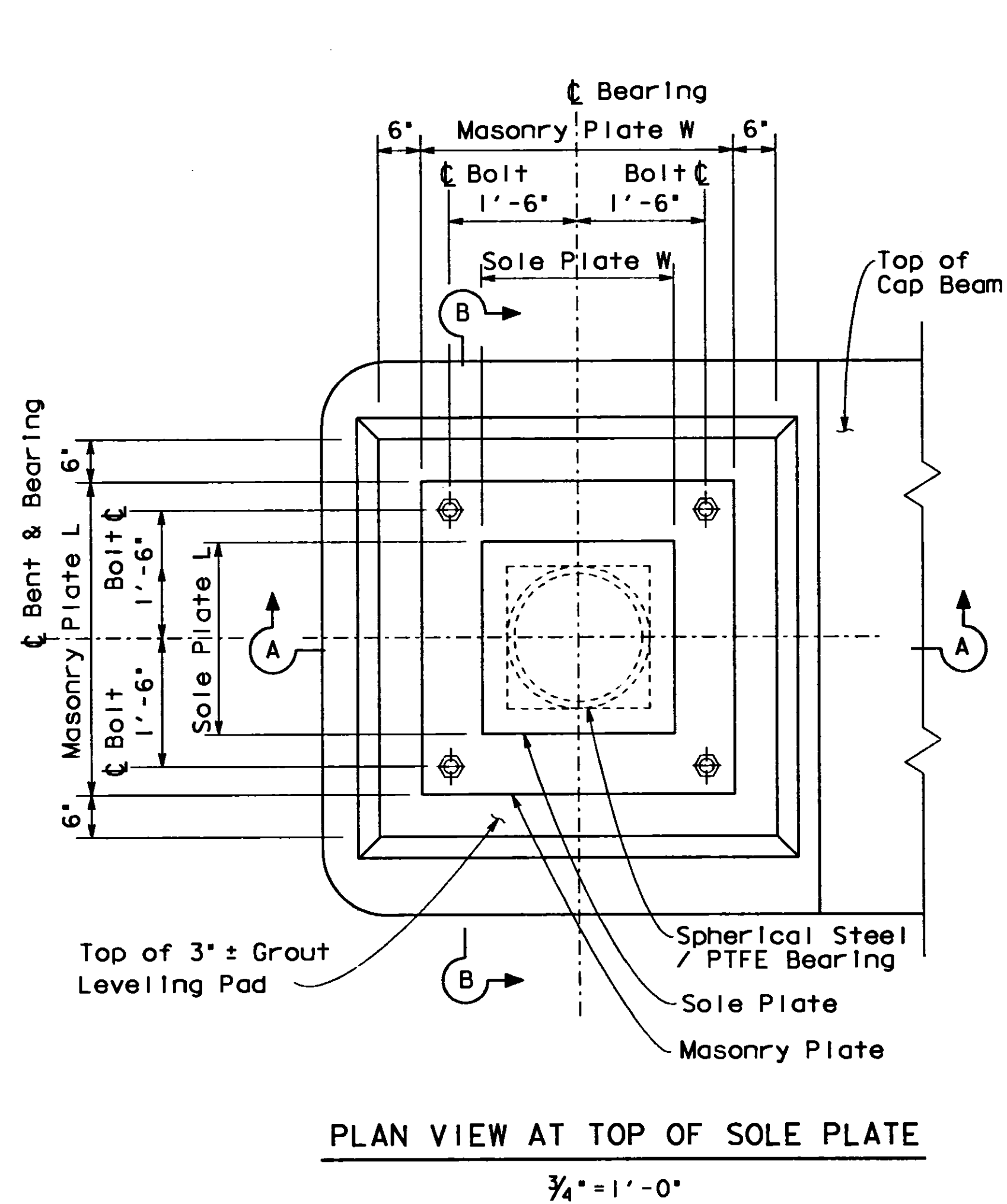
BRIDGE NO.
33-6235
POST MILE

MARITIME OFF-RAMP
ACCESS MANHOLES

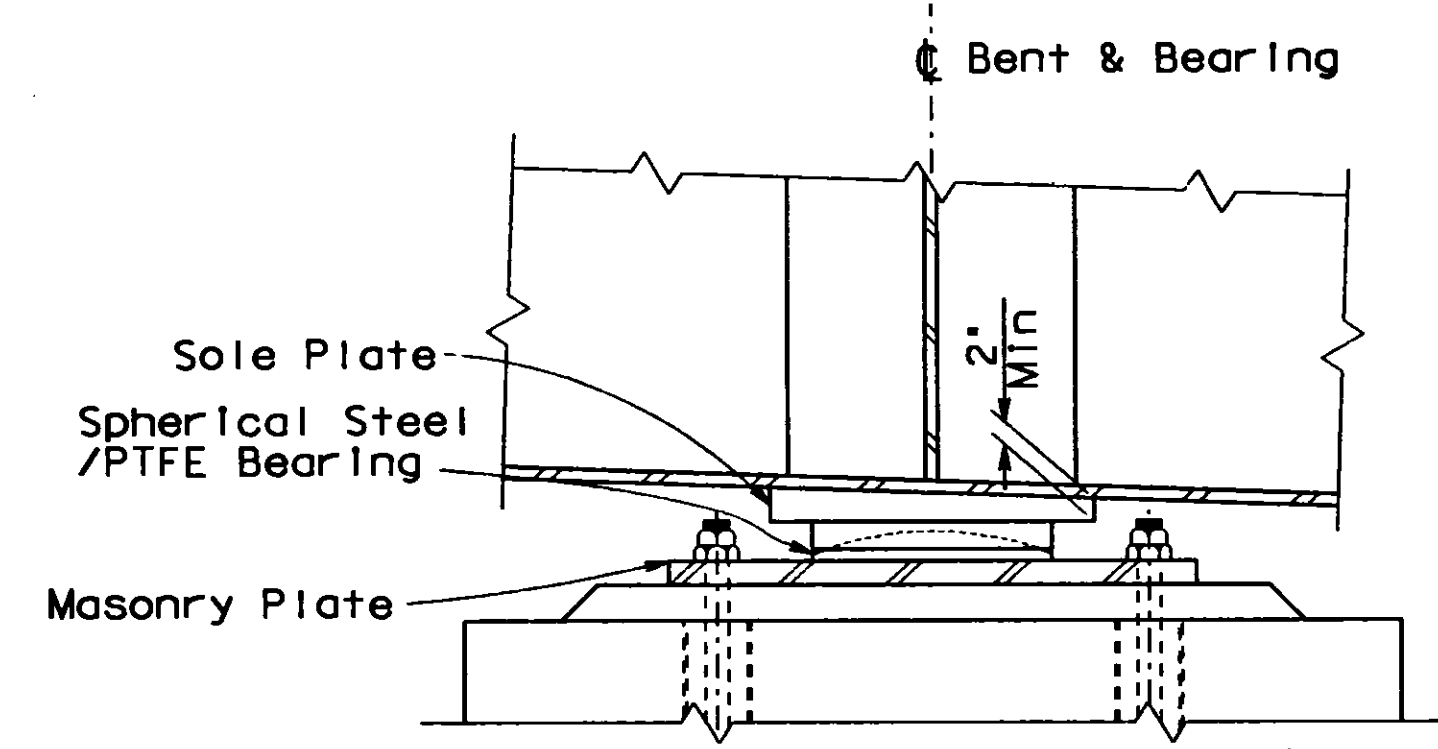
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04
EA 192231

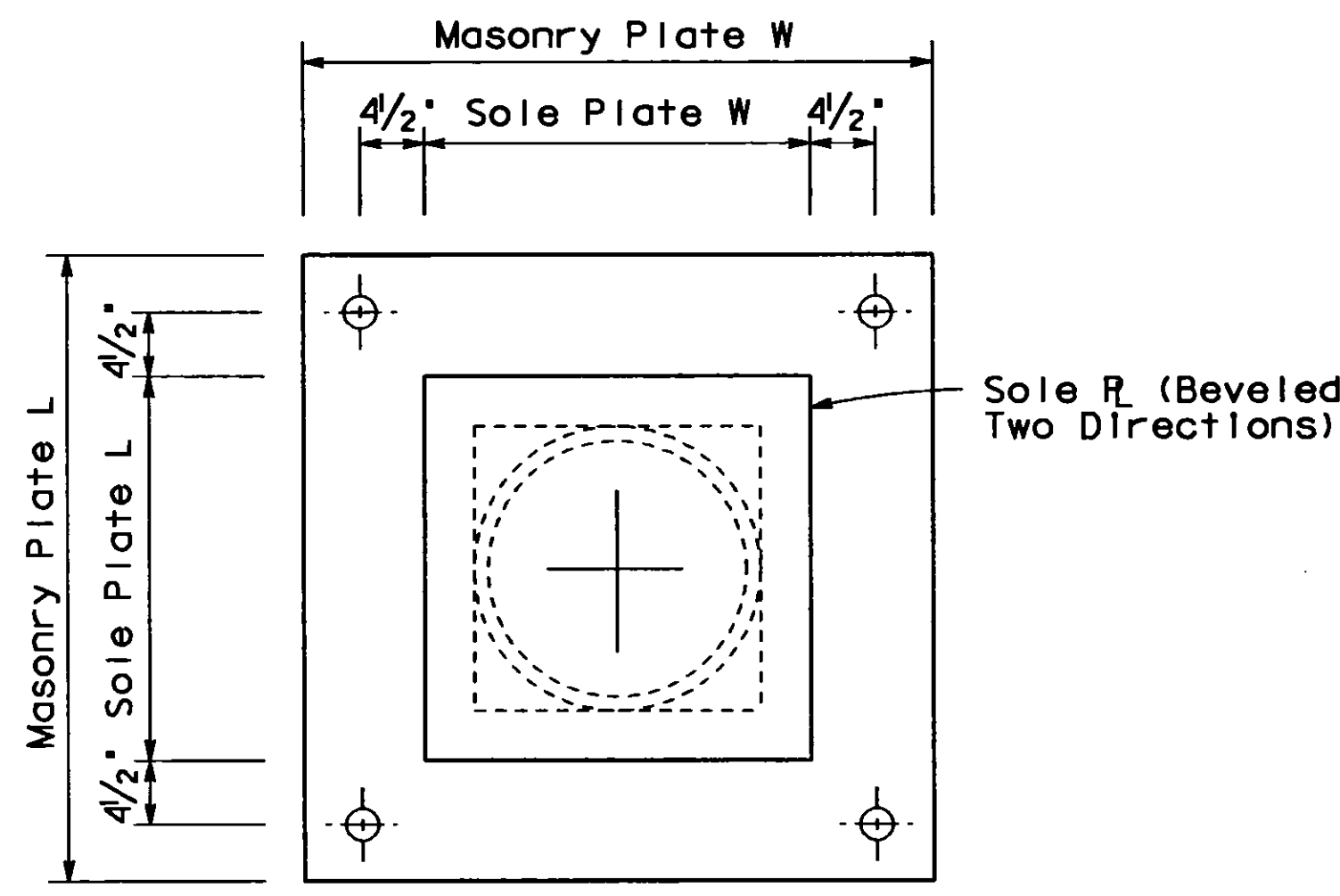
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
9/10/92 11/6/92 2/26/93 3/31/93 5/14/93		51	138



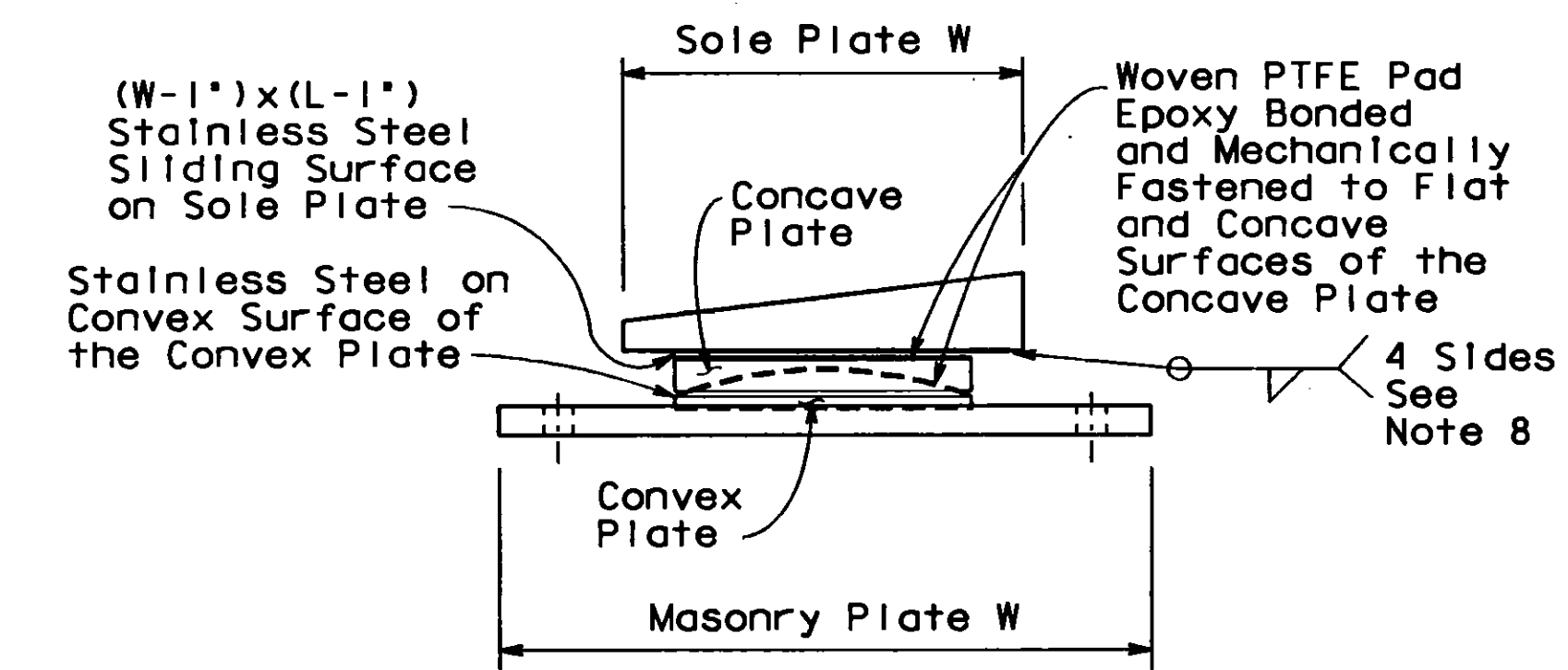
SECTION A-A
3/4" = 1'-0"



SECTION B-B
3/4" = 1'-0"



PLAN



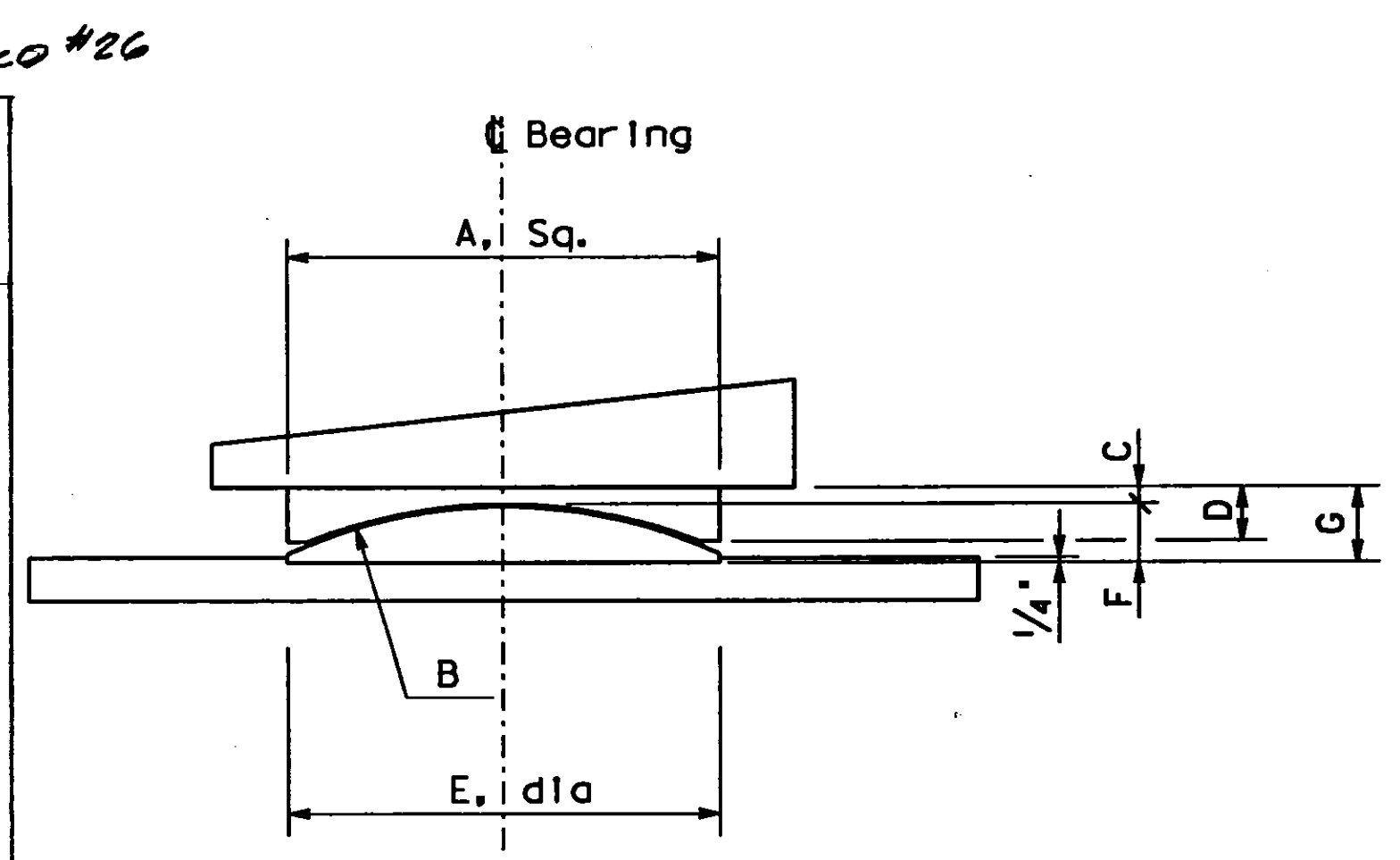
ELEVATION

SPHERICAL BEARING ASSEMBLY
1" = 1'-0"

- Notes:**
- Spherical radius calculated using horizontal load equal to 12% of the maximum vertical load and $\pm 2^\circ$ rotation.
 - Minimum masonry plate thickness = 2".
 - Minimum sole plate thickness = 2".
 - Minimum horizontal diameter of spherical bearing = 18".
 - Convex plate shall be set in recess in masonry plate and caulked.
 - Bearing Type 1 is an expansion type bearing with spherical and sliding bearing surfaces.
 - Contractor shall submit bearing details to the Engineer for approval prior to installation.
 - The bearing sole plate shall be welded to the soffit prior to placing the bridge in final position on the bent.

Bearing Type I at Single Column Bents

Bent	Maximum Vertical Load (Kips)	Minimum Vertical Load (Kips)	Rotation	Concave Plate			Convex Plate			Masonry Plate			Sole Plate			Slope Long %	Slope Trans. %	Bearing Height "G"	Dim PTFE	PTFE Area sq in flat surface
				Width/Length "A"	Spherical Radius "B" (Note 1)	Minimum Thickness "C"	Thickness "D"	Diameter "E"	Thickness "F"	"T"	"W"	"L"	"T"	"W"	"L"					
11HS	686	315	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	See Note 2	44"	44"	See Note 3	27"	27"	+3.54	+12.00	3 1/2"	16	203
12HS	812	378	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	+1.23	+12.00	3 1/2"	18	248		
13HS	714	329	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	-0.52	+12.00	3 1/2"	17	225		
14HS	584	264	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	-0.52	+12.00	3 1/2"	15	175		
15HS	584	264	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	-0.52	+8.05	3 1/2"	15	175		
16HS	584	264	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	-0.52	+3.94	3 1/2"	15	175		
17HS	710	327	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	-0.51	-0.16	3 1/2"	16	203		
18HS	743	343	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	-0.16	-6.18	3 1/2"	17	225		
19HS	653	298	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	+0.10	-9.00	3 1/2"	16	203		
20HS	653	298	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	+0.37	-9.00	3 1/2"	16	203		
21HS	730	337	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	+0.55	-9.00	3 1/2"	17	225		
22HS	747	345	2°	20"	24"	3/4"	2 1/2"	20"	2 3/4"	44"	44"	27"	27"	+0.55	-9.00	3 1/2"	17	225		



BEARING SECTION AS BUILT
 No Scale
 CORRECTIONS BY R. ARRAWI
 CONTRACT NO. 04-192234
 DATE 7-19-97 10-12-98

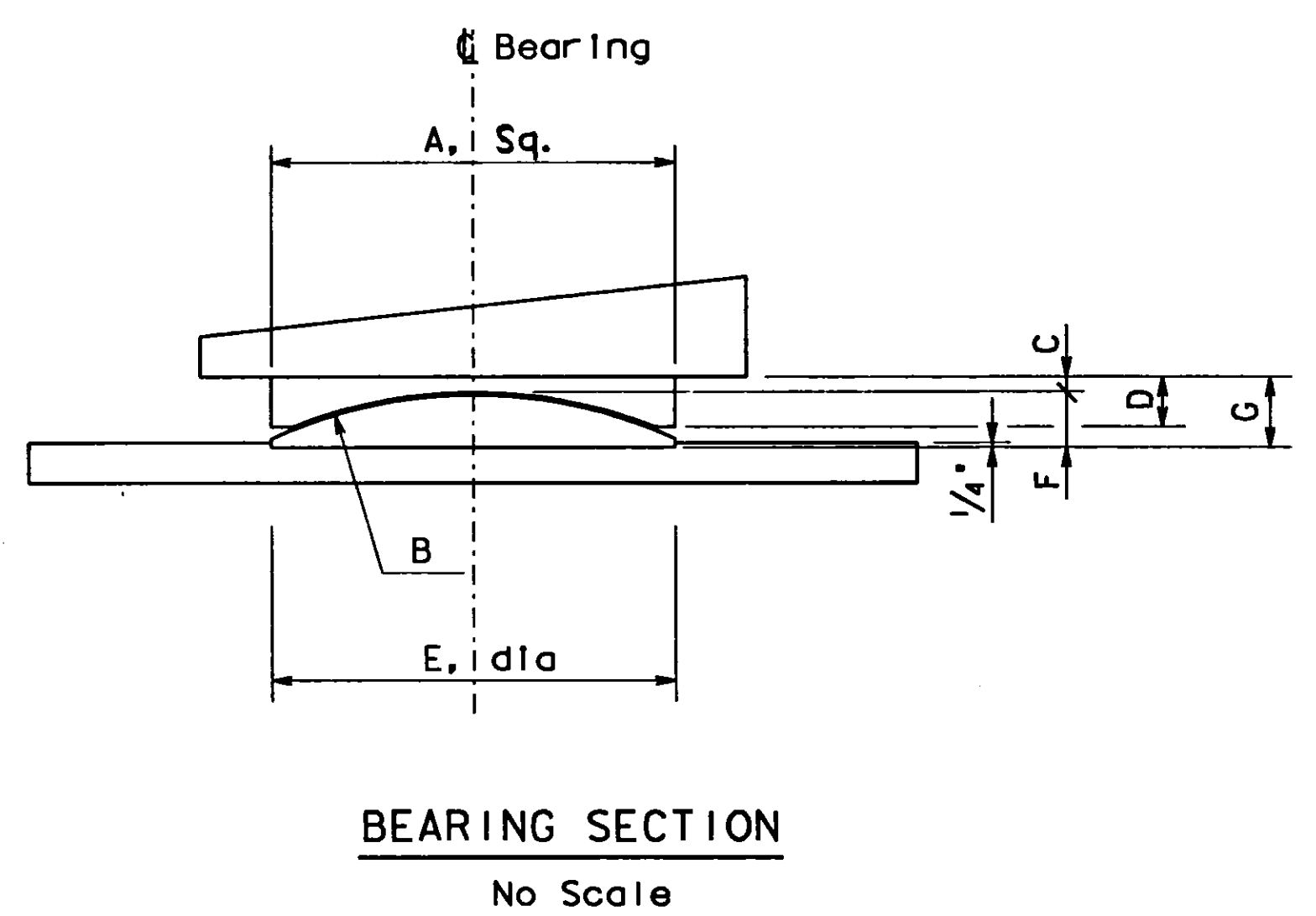
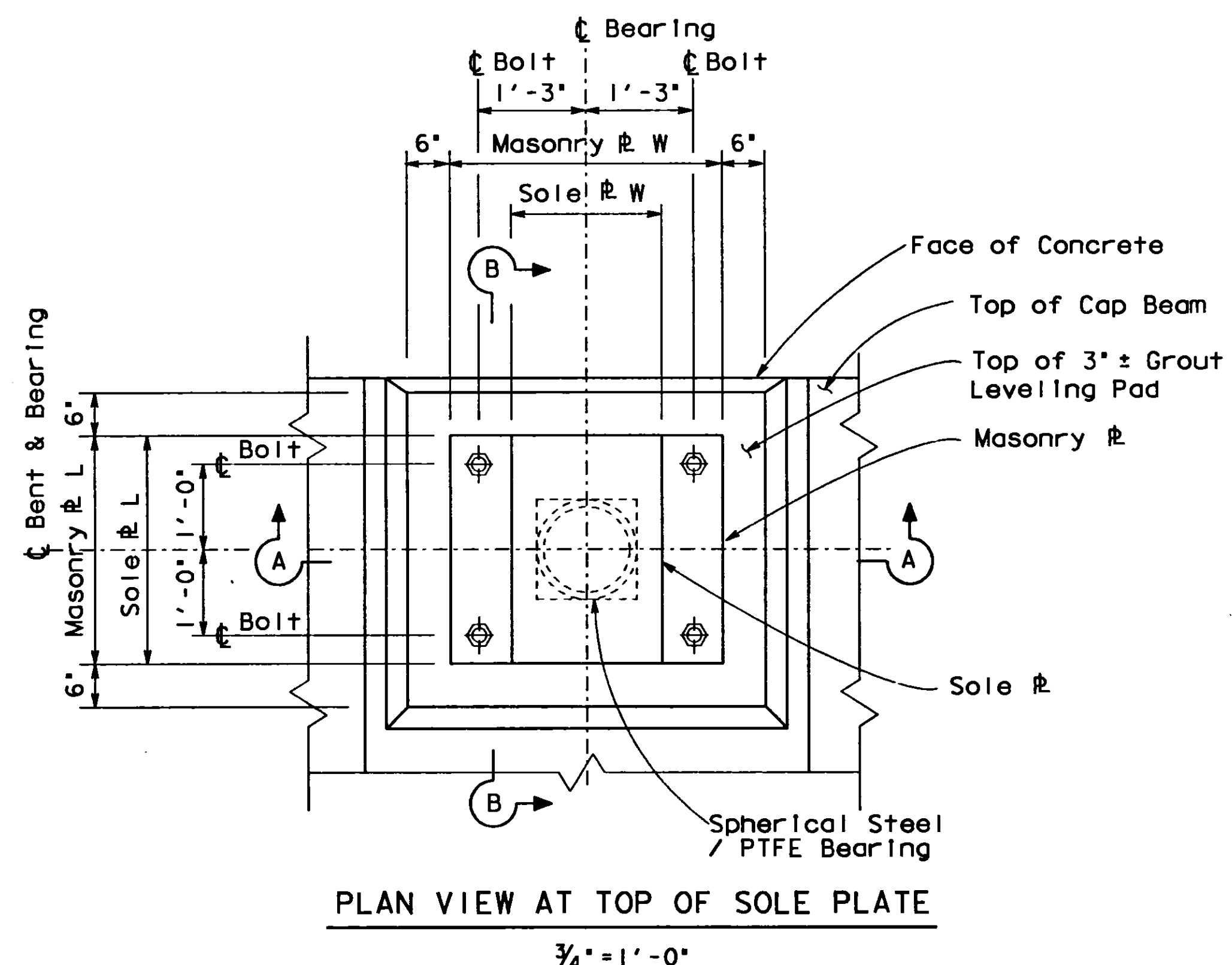
A.M.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <u>9/14/93</u>	DESIGN BY <u>M. ECKARDT</u>	CHECKED <u>R. RUDOLPH</u>	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	<u>M. BENOIT</u> PROJECT ENGINEER	BRIDGE NO. <u>33-623S</u>	MARITIME OFF-RAMP BEARING DETAILS - NO.1
	DETAILS BY <u>O. DRIS</u>	CHECKED <u>R. RUDOLPH</u>			POST MILE	
	QUANTITIES BY <u>E. BOUGDANOS</u>	CHECKED <u>R. MCLAUGHLIN</u>	CU 04	EA 192231	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 8/18/92 11/16/92 2/26/93 3/21/93 5/11/93 6/14/93 7/15/93 8/11/93 9/10/93

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

SHEET 52 OF 138

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4 1.3/3.0	687	1412

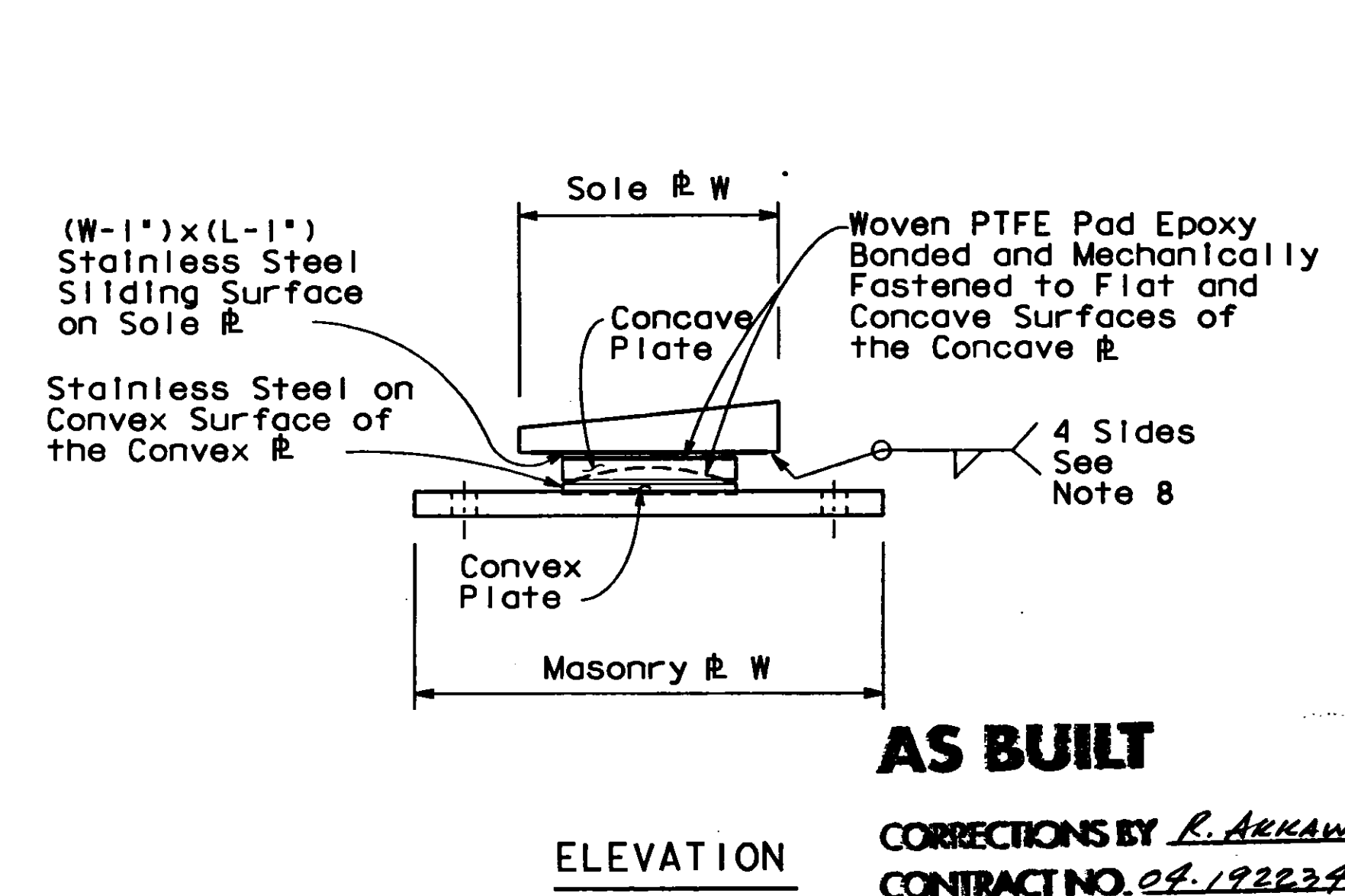
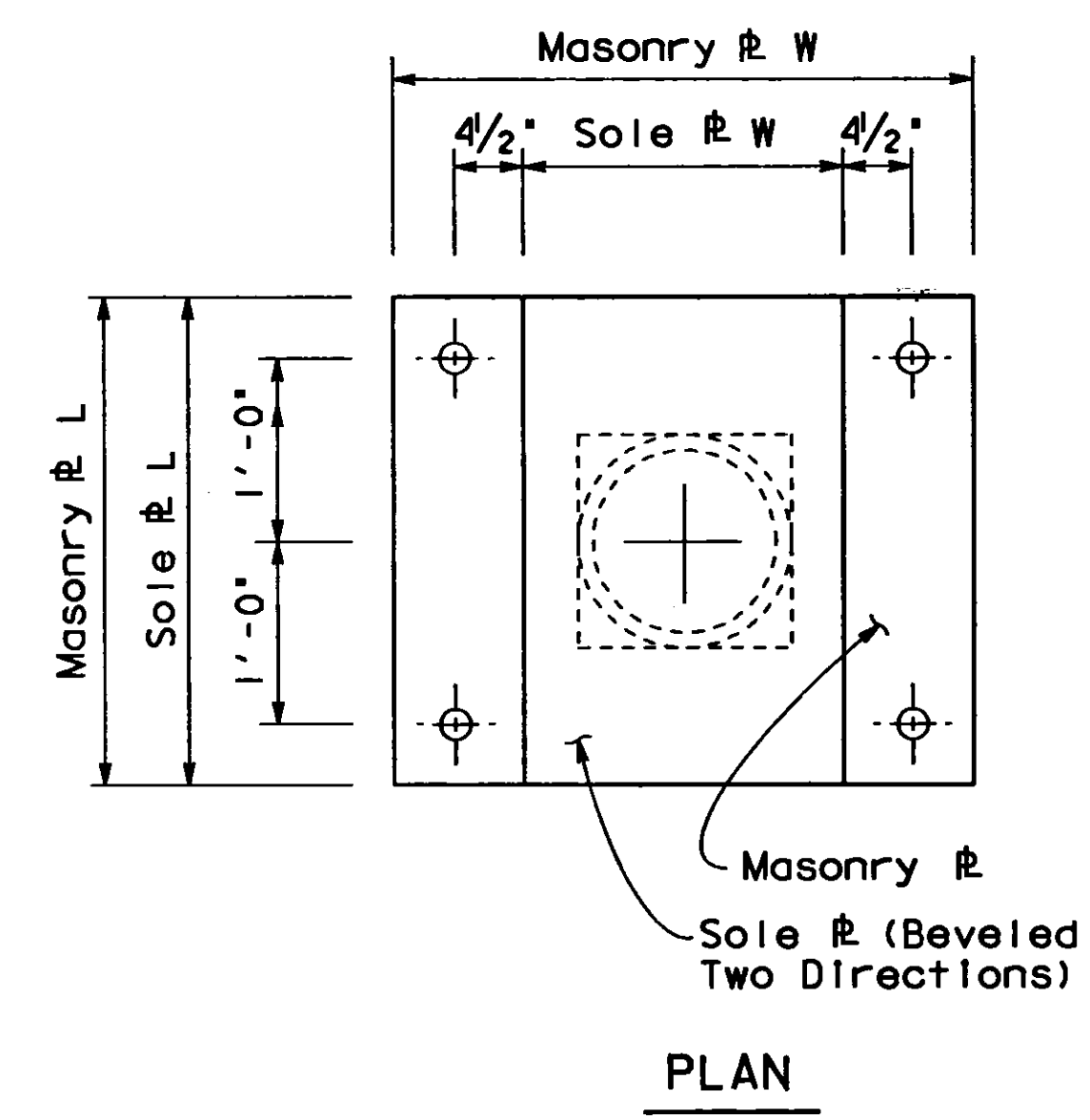
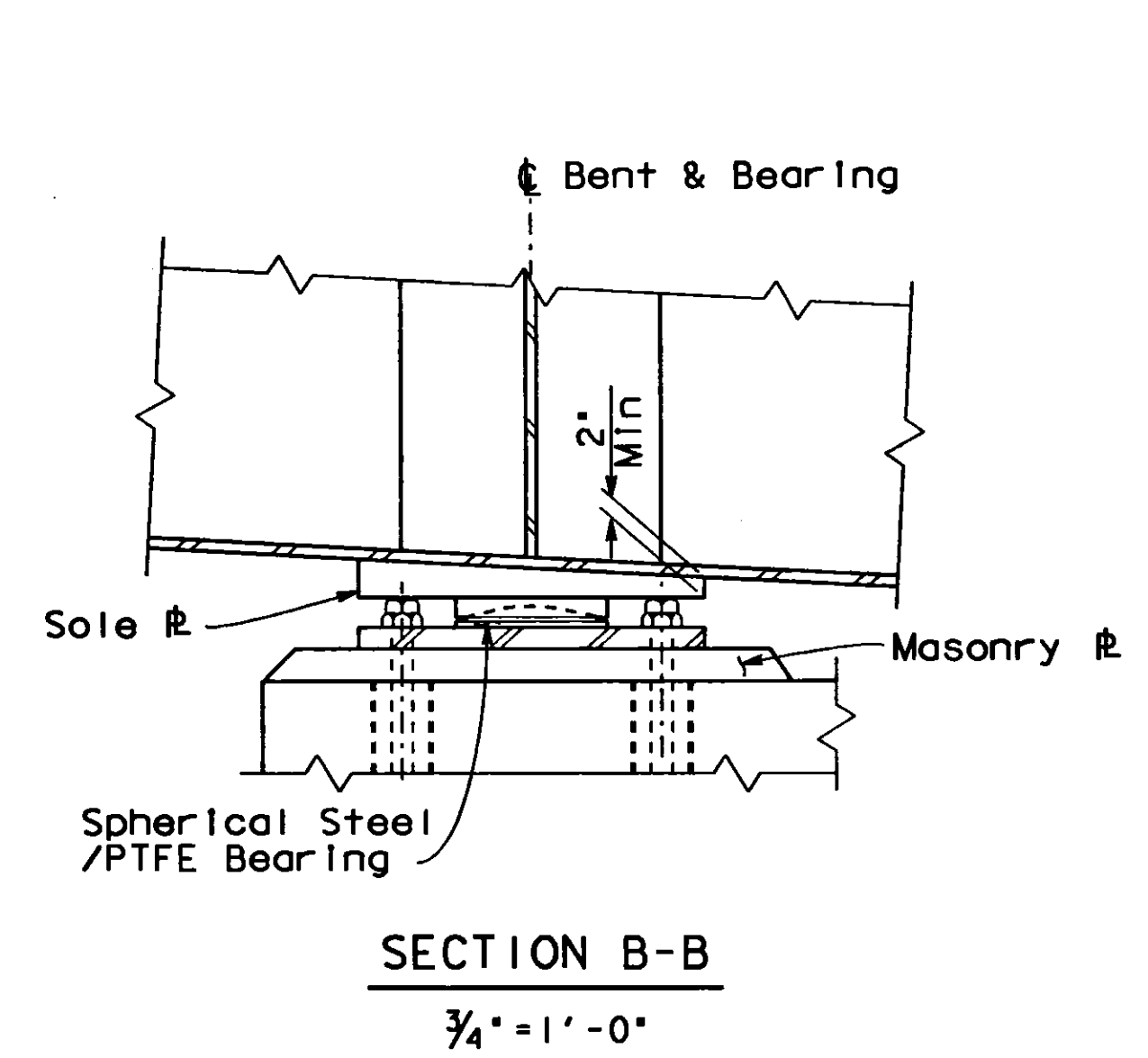
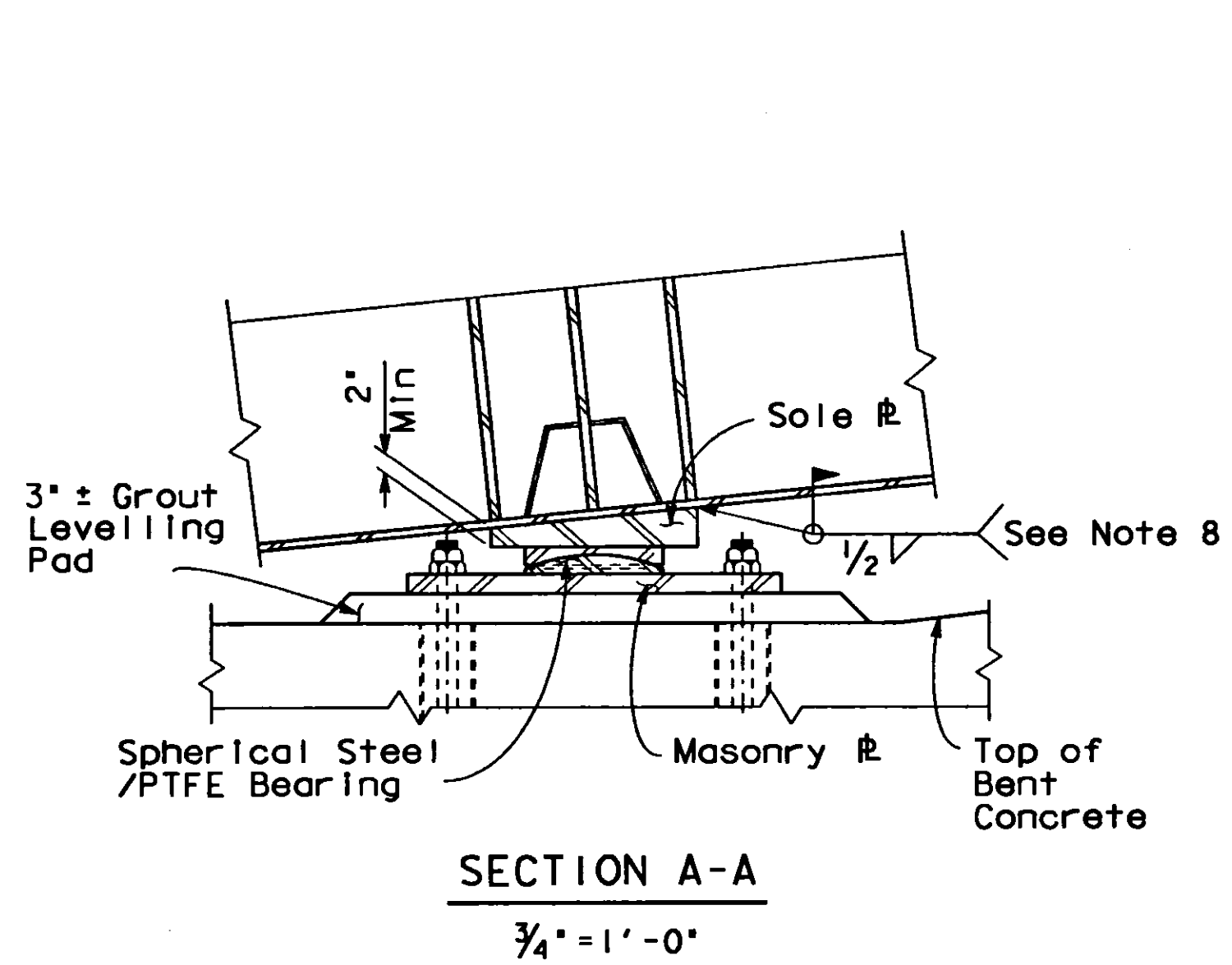
P.M. Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612



- Notes:**
- Spherical radius calculated using horizontal load equal to 12% of the maximum vertical load and ± 2° rotation.
 - Minimum masonry plate thickness = 2".
 - Minimum sole plate thickness = 2".
 - Minimum horizontal diameter of spherical bearing = 12".
 - Convex plate shall be set in recess in masonry plate and caulked.
 - Bearing Type II is an expansion type bearing with spherical and sliding bearing surfaces.
 - Contractor shall submit bearing details to the Engineer for approval prior to installation.
 - The bearing sole plate shall be welded to the soffit prior to placing the bridge in final position on the bent.

Bearing Type II At Bents 10HS and 12RM

Bent	Maximum Vertical Load (Kips)	Minimum Vertical Load (Kips)	Rotation	Concave Plate			Convex Plate			Masonry Plate			Sole Plate		Slope Long %	Slope Trans. %	Bearing Height "G"	
				Width Length "A"	Spherical Radius "B" (Note 1)	Minimum Thickness "C"	Thickness "D"	Diameter "E"	Thickness "F"	"T"	"W"	"L"	"T"	"W"				"L"
10HS	320	133	2°	14"	15"	3/4"	2"	14"	2/4"	See Note 2	38"	32"	See Note 3	21"	32"	+5.25	+9.98	3"
12RM	373	159	2°	14"	15"	3/4"	2"	14"	2/4"	See Note 2	38"	32"	See Note 3	21"	32"	+0.55	-9.00	3"



AS BUILT
CORRECTIONS BY *R. ARKAWI*
CONTRACT NO. *04-192234*
DATE *9-18-97 10-12-98*
NO AS BUILT CHANGES

A.M. MARQUEZ DESIGN OVERSIGHT SIGNOFF DATE <i>9/14/93</i>	DESIGN	BY M. ECKARDT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO.	33-623S	MARITIME OFF-RAMP BEARING DETAILS - NO.2						
	DETAILS	BY O. DRIS	CHECKED R. RUDOLPH			POST MILE								
	QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN			CU 04 EA 192231	REVISION DATES (PRELIMINARY STAGE ONLY)		<table border="1"> <tr> <td>9/16/92</td> <td>11/6/92</td> <td>2/26/93</td> <td>3/23/93</td> <td>5/14/93</td> <td>6/17/93</td> <td>7/15/93</td> <td>8/11/93</td> <td>9/10/93</td> </tr> </table>	9/16/92	11/6/92	2/26/93	3/23/93	5/14/93
9/16/92	11/6/92	2/26/93	3/23/93	5/14/93	6/17/93	7/15/93	8/11/93	9/10/93						

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4 1.3/3.0	689	1412

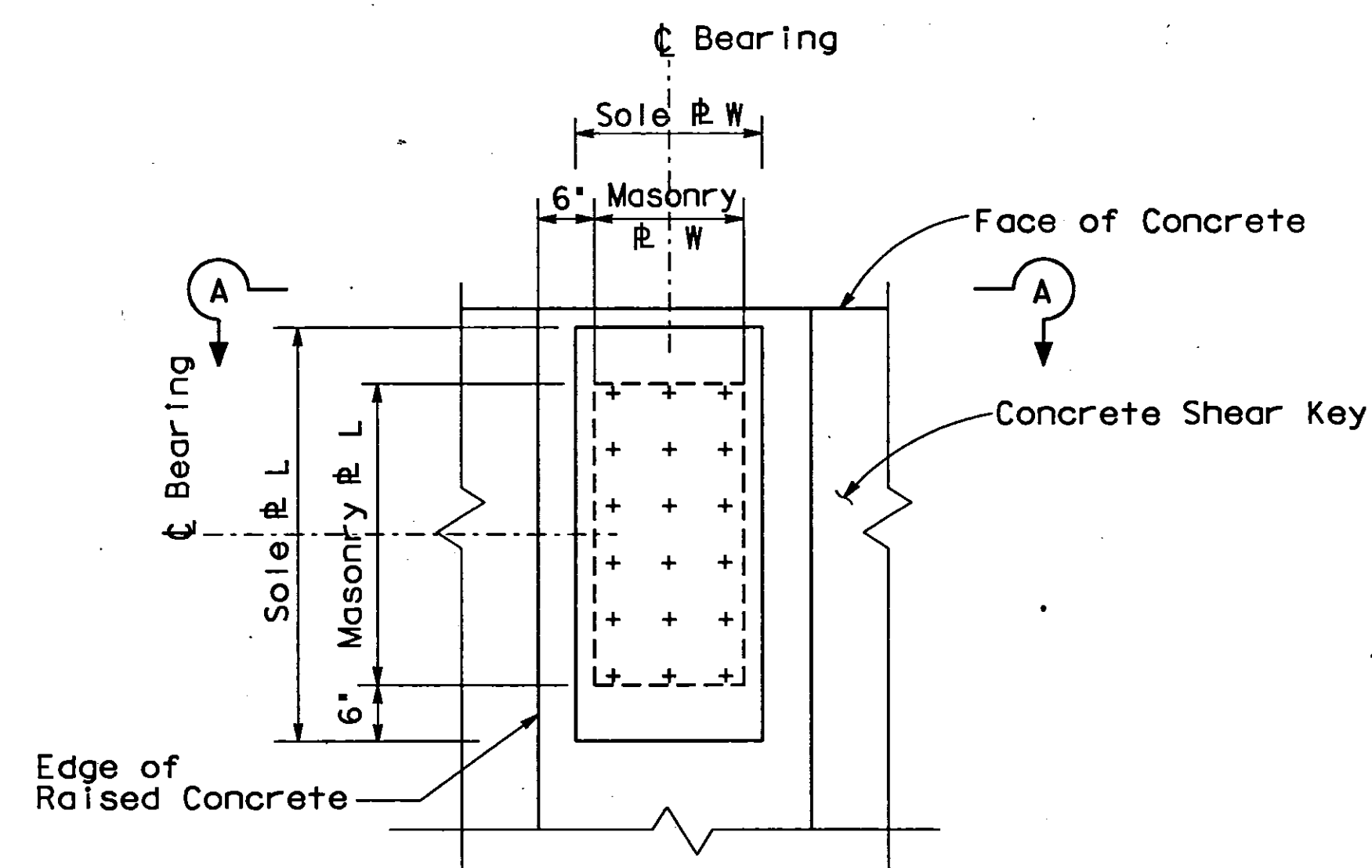
J.M. Benoit
REGISTERED CIVIL ENGINEER

6-13-94
PLANS APPROVAL DATE

TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612

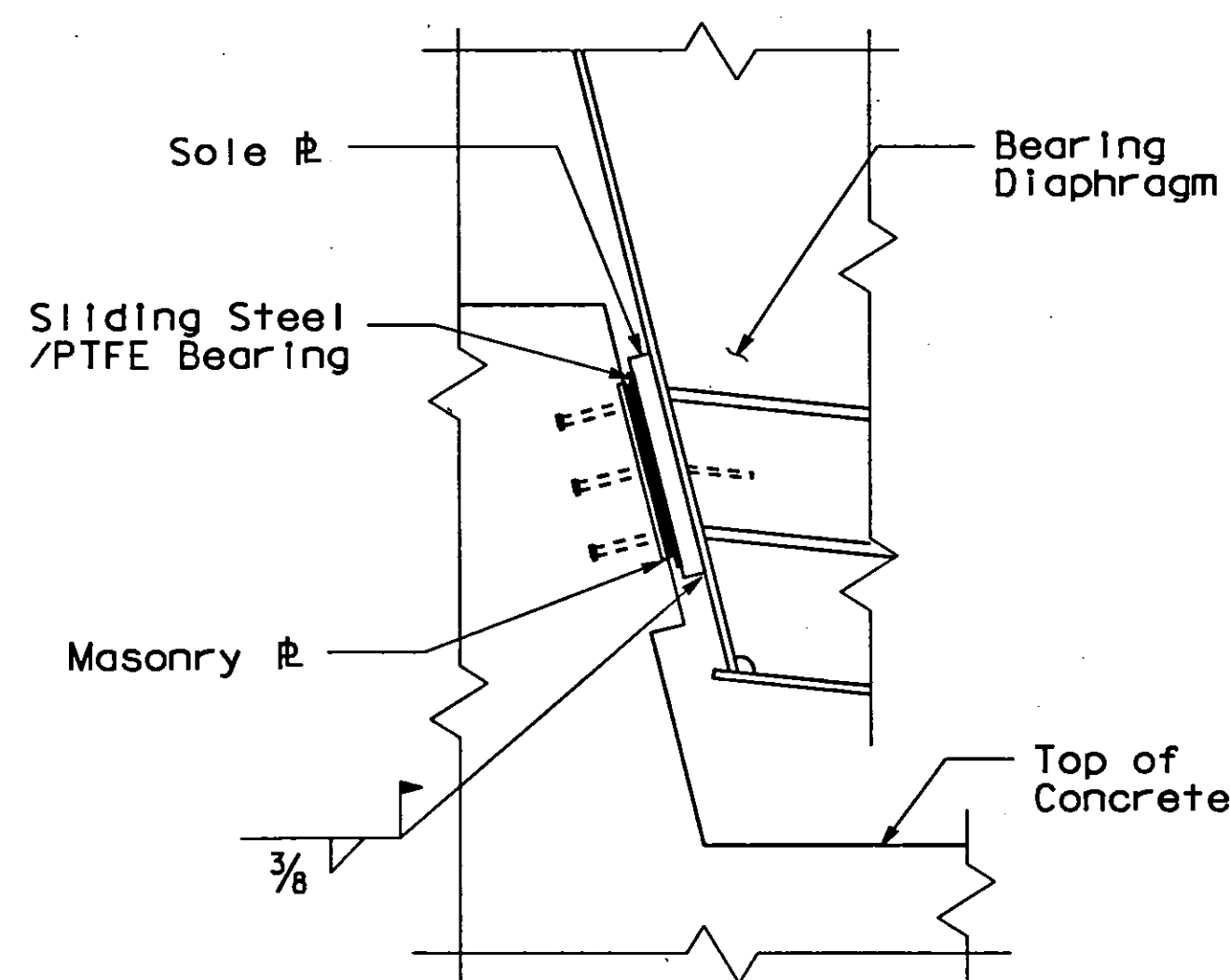
Bearing Type IV At
Bents 10HS and 12RM

Bent	Masonry Plate			Sole Plate			Stud Spacing	
	T	*W*	*L*	*T*	*W*	*L*	SW	SL
10HS	See Note 1	16"	32"	See Note 2	20"	44"	6"	6"
12RM	See Note 1	12"	32"	See Note 2	16"	44"	5"	6"



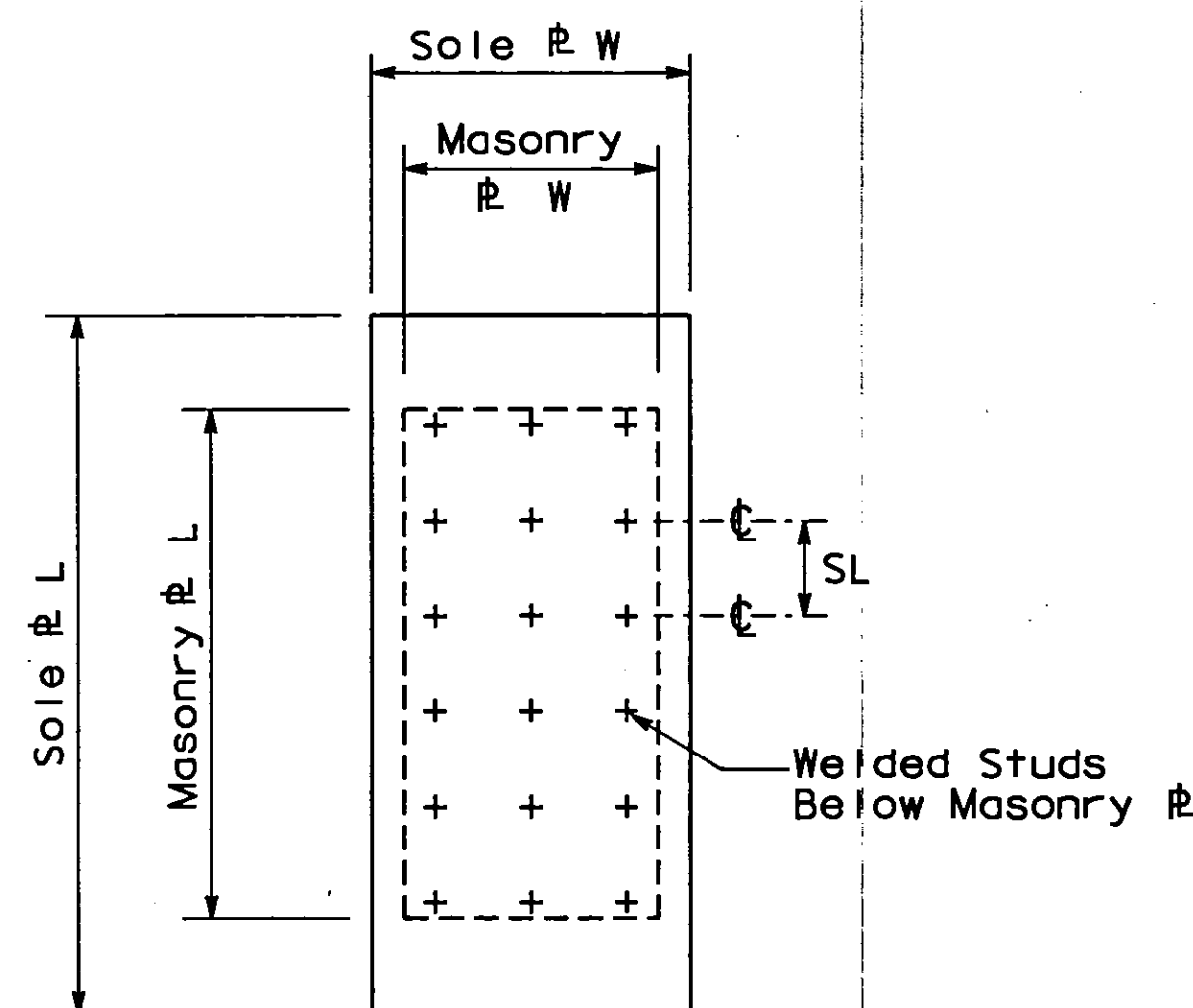
PLAN VIEW AT TOP OF SOLE PLATE

3/4" = 1' - 0"

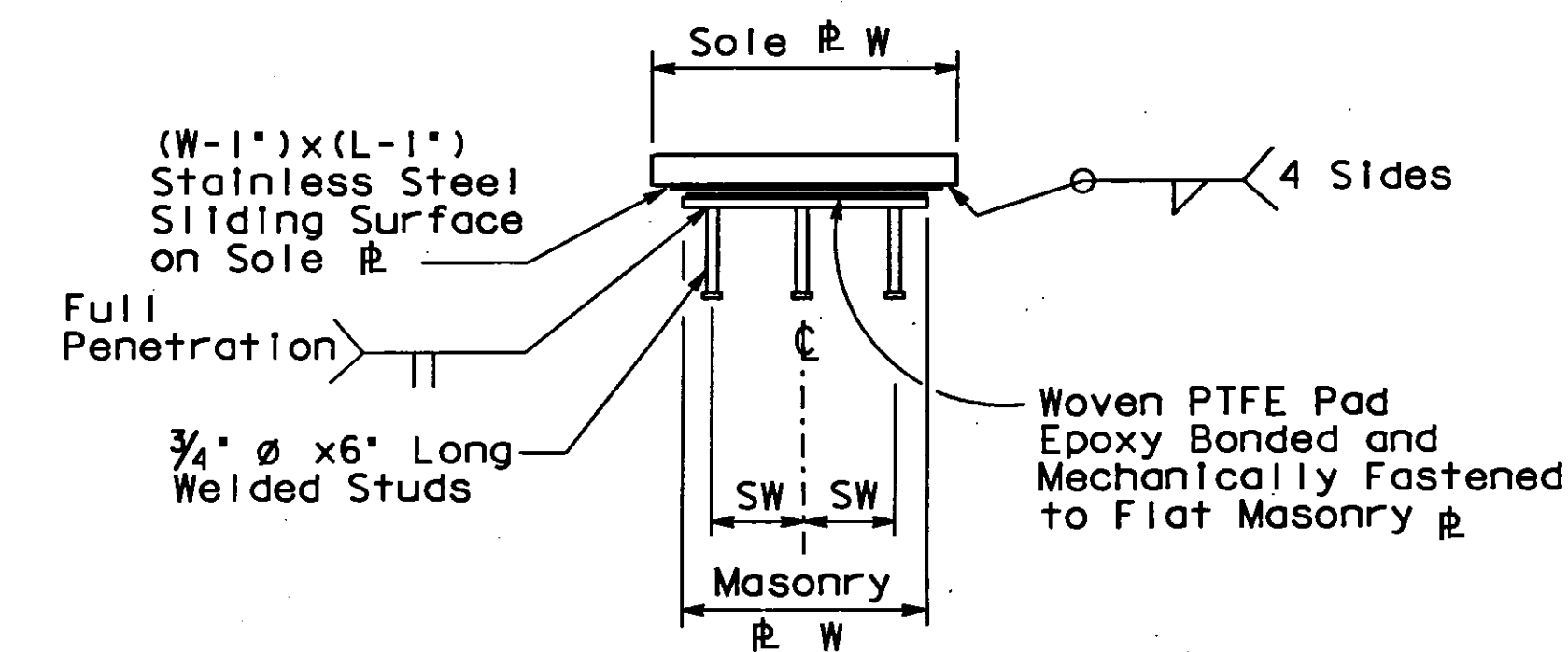


SECTION A-A

3/4" = 1' - 0"



PLAN



ELEVATION

SPHERICAL BEARING ASSEMBLY

1" = 1' - 0"

AS BUILT

CORRECTIONS BY *R. ALKHALIL*

CONTRACT NO. *07-19223A*

DATE *9-19-97* *10-12-98*

NO AS BUILT CHANGES

A.M. MARQUEZ
DESIGN OVERSIGHT
SIGNOFF DATE *6/7/93*

DESIGN	BY M. ECKARDT	CHECKED R. RUDOLPH
DETAILS	BY O. DRIS	CHECKED R. RUDOLPH
QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

M. BENOIT
PROJECT ENGINEER

BRIDGE NO.
33-623S

MARITIME OFF-RAMP

BEARING DETAILS - NO. 4

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

0 1 2 3

CU 04
EA 192231

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
9/7/92 11/14/92 2/7/93 3/31/93 5/14/93	55	138

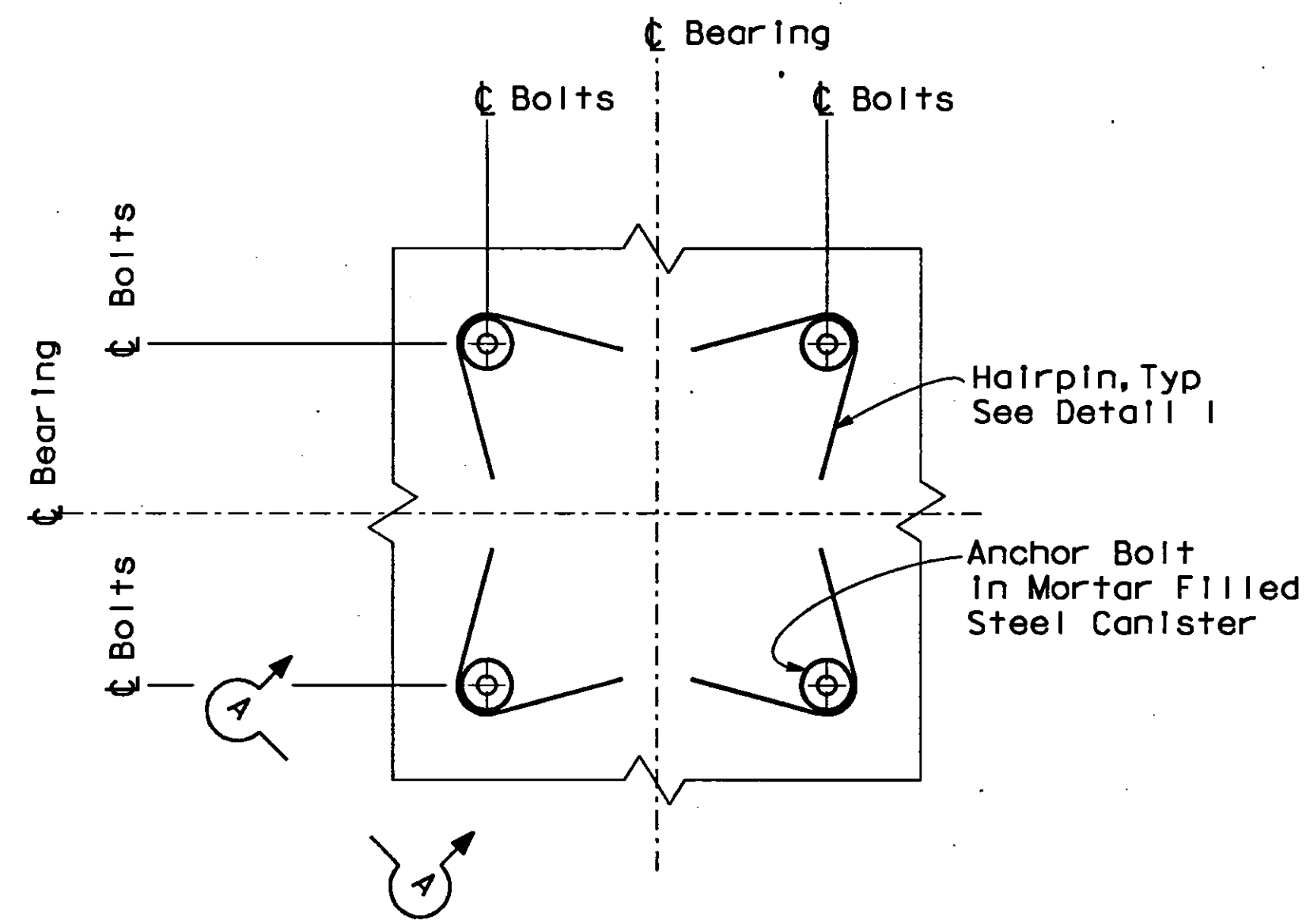
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880.80	34.4 1.3/3.0	690	1412

J. Michel Benoit
REGISTERED CIVIL ENGINEER

6-13-94
PLANS APPROVAL DATE

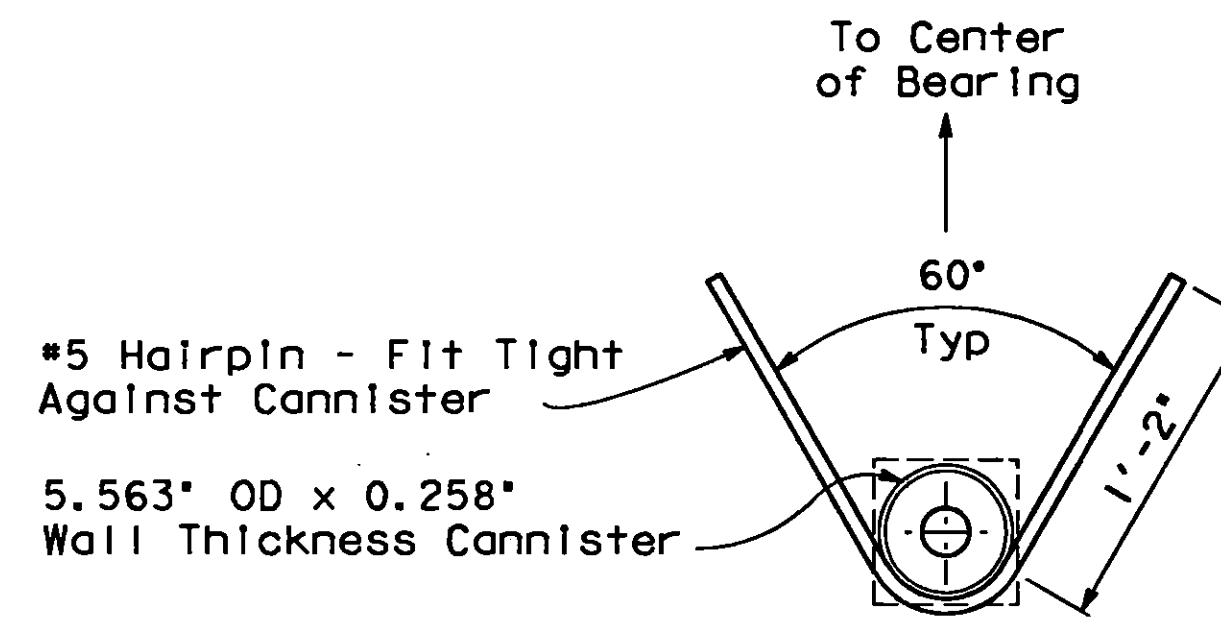
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612

REGISTERED PROFESSIONAL ENGINEER
J. MICHEL BENOIT
No. C37895
Exp. 3/31/93
CIVIL
STATE OF CALIFORNIA



PLAN AT ANCHOR BOLTS FOR BEARING ASSEMBLY

3/4" = 1'-0"

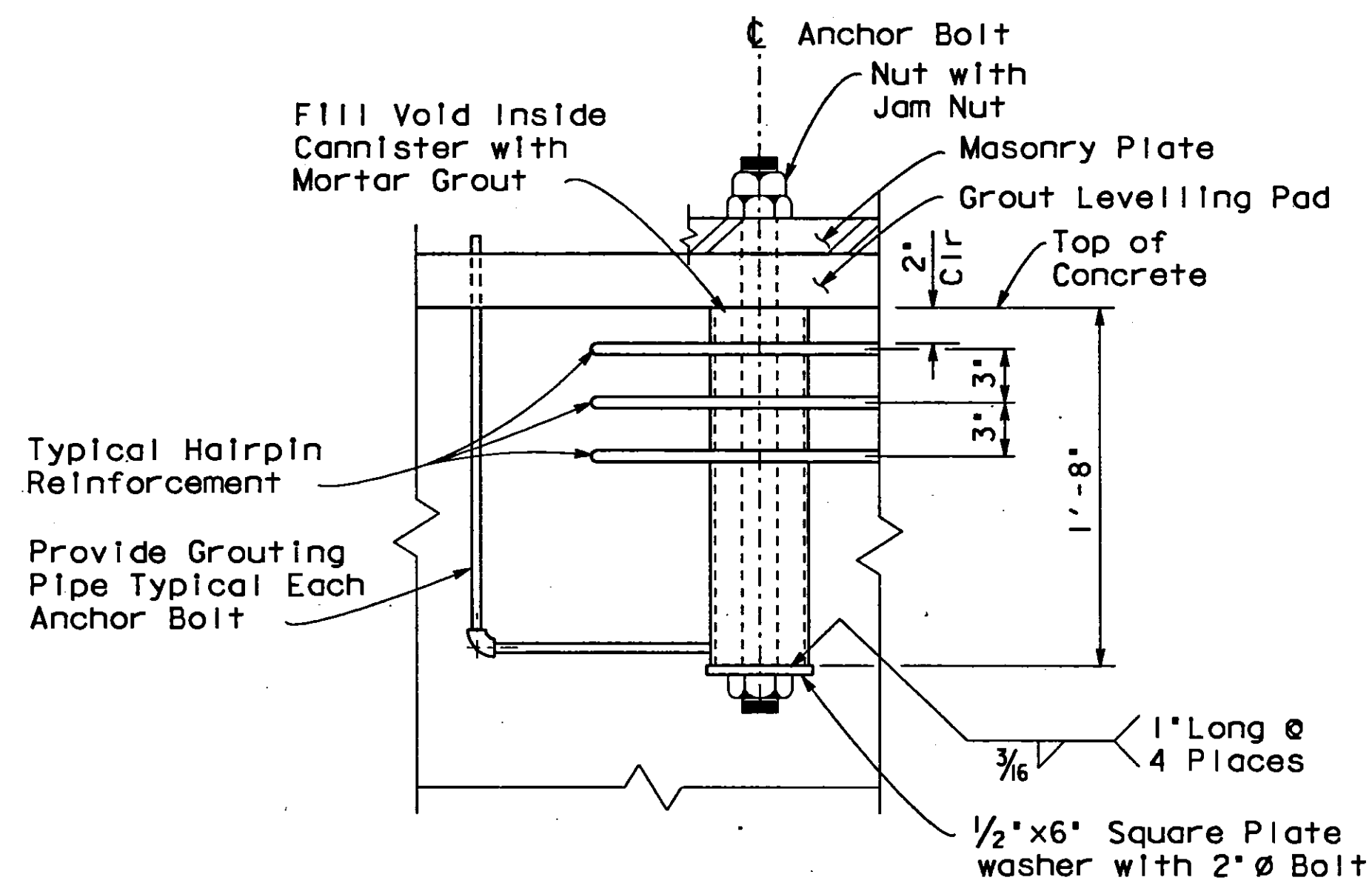


HAIRPIN DETAIL I

1/2" = 1'-0"

NOTES:

1. See "BEARING DETAILS - NO. 1" and "BEARING DETAILS - NO. 2" for anchor bolt plan dimensions.
2. Omit grout levelling pads under masonry plates at Bent 12RM.



SECTION A-A

1/2" = 1'-0"

AS BUILT

CORRECTIONS BY *R. ANKAWI*
CONTRACT NO. *04-192234*
DATE *9-19-97* *10-12-98*

NO AS BUILT CHANGES

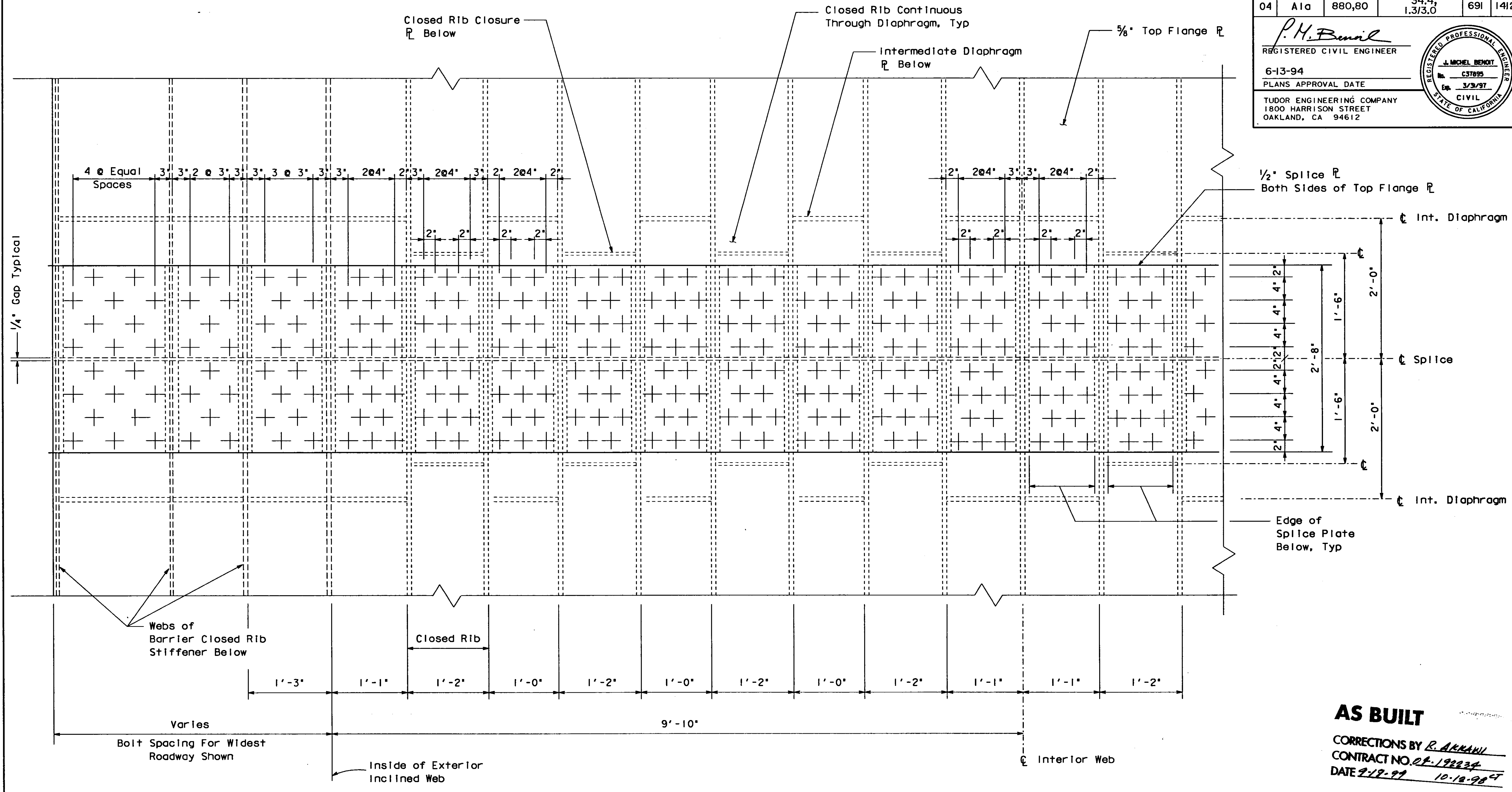
<i>A.M.M. A.M. MARQUEZ</i> DESIGN OVERSIGHT SIGNOFF DATE <i>6/7/93</i>	DESIGN BY M. ECKARDT	CHECKED R. RUDOLPH	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. BENOIT PROJECT ENGINEER	BRIDGE NO. 33-623S	MARITIME OFF-RAMP ANCHOR BOLTS DETAIL
	DETAILS BY O. DRIS	CHECKED R. RUDOLPH			POST MILE	
	QUANTITIES BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN	CU 04 EA 192231	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 56	OF 138

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,80	34.4 1.3/3.0	691	1412

P.M. Benoit
REGISTERED CIVIL ENGINEER
6-13-94
PLANS APPROVAL DATE
TUDOR ENGINEERING COMPANY
1800 HARRISON STREET
OAKLAND, CA 94612

REGISTERED PROFESSIONAL ENGINEER
MICHEL BENOIT
No. C37895
Exp. 3/31/97
CIVIL
STATE OF CALIFORNIA



PLAN AT TOP FLANGE PLATE SPLICE
1/2" = 1'-0"

AS BUILT
CORRECTIONS BY *R. AKHAVAN*
CONTRACT NO. *01-192234*
DATE *9-12-99* *10-18-98*
NO AS BUILT CHANGES
NOTE: Provide 1 5/16" ø Holes for 7/8" ø A-325 Bolts, Typ

A.M.M. A. M. MARQUEZ
DESIGN OVERSIGHT
9/14/93
SIGNOFF DATE

DESIGN	BY R. HOLT	CHECKED R. RUDOLPH
DETAILS	BY A. GRISWOLD	CHECKED R. RUDOLPH
QUANTITIES	BY E. BOUGDANOS	CHECKED R. MCLAUGHLIN

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

M. BENOIT
PROJECT ENGINEER

BRIDGE NO.
33-623S
POST MILE

MARITIME OFF-RAMP
BOLTED FIELD SPLICE DETAILS - NO. 1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
0 1 2 3

CU 04
EA 192231

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	9/16/92 11/16/92 2/26/93 3/14/93 5/14/93 6/14/93 7/15/93 8/14/93 9/10/93	57 138