
Bridge Inspection Records Information System

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State of California
Department of Transportation

**Division of Maintenance
Structures Maintenance & Investigations**



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0561
Facility Carried: ISLAND WAY
Location : 0.1 MI S DANA PT HRBR DR
City :
Inspection Date : 14-AUG-01

Bridge Inspection Report

Inspection Type

Routine	Group A	Underwater	Special	Other
☐	☐	☐	☐	☒

Name : DANA POINT HARBOR

CONSTRUCTION INFORMATION

Year Built : 1970	Skew (degrees): 0
Year Widened : N/A	No. of Joints : 0
Length (m) : 62.2	No. of Hinges : 0

Description of Structure : Simply supported 4-span PC/PS concrete box girder (8 units) with a continuous RC deck and RC single column bents and RC closed end strutted abutments, all supported upon spread footings.

Span Configuration : (S) 4 @ 15.2 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 + MOD OR HS - 20 + MOD	
Inventory Rating : 32.6 metric tons	Calculation Method : LOAD FACTOR
Operating Rating : 53.5 metric tons	Calculation Method : LOAD FACTOR
Permit Rating : P P P P P	
Posting Load : Type 3 N/A english tons	Type 3S2 N/A english tons Type 3-3 N/A english tons

DESCRIPTION ON STRUCTURE

Bridge width : (W) 0.4 m br, 1.5 m sw, 2 @ 4.3 m, 1.5 m sw, 0.4 m br (E)	
Total Width : 12.5 m	Net Width : 8.50 m
Rail Description : Misc.	No. of Lanes : 2
Min. Vertical Clearance : Unimpaired	Rail Code : 1000

DESCRIPTION UNDER STRUCTURE

Channel Description : Tidal basin.

HISTORY

There is no history of scour related problems at this structure. Since this bridge spans a boating harbor, the Area Bridge Maintenance Engineer has requested a Type B Underwater Investigation for a close-up inspection of the pier footings.

REVISIONS

The National Bridge Inventory Item 113 Code has been revised from 6 to T.

SCOUR

This report addresses hydraulic issues only. The structure's scour potential has been assessed in accordance with the Federal Highway Administration Technical Advisory T5140.23, "Evaluating Scour at Bridges". The National Bridge Inventory Item 113 Code, "Vulnerability to Scour", has been changed to T: "Bridge over 'tidal' waters that has not been evaluated for scour, but considered low risk. Bridge will be monitored with regular inspection cycle and with appropriate underwater inspections until an evaluation is performed."

This evaluation is based on an office review of maintenance records and earthquake retrofit project plans. The as built stationing for this structure runs north to south, the northerly abutment being Abutment 1. A channel cross-section was measured along the West-side of the bridge during the field investigation.

There is tidal influence to the channel spanned by this structure. The depth of water precluded an investigation of pier footings. The flow or tidal velocity was not distinguishable.

This structure was previously investigated by WEST Consultants, Inc. during a Caltrans Local Agency Seismic Retrofit Program. The published report by WEST Consultants, Inc., dated August 28, 1997, indicates the bridge is located in a protected and enclosed harbor with no active flow conditions. Therefore, long-term degradation is not expected to occur at this bridge site. The report also notes that

Bridge No.: 55C0561 Location: 0.1 MI S DANA PT HRBR DR Inspection Date: 14-AUG-01

piers are normal to the canal and debris was not observed. Evidence of local and contraction scour was not observed. Furthermore, the report states the proposed retrofit strategy would not impact the flow conditions of this waterway. Since there is no history of scour and none anticipated by the WEST Consultant, Inc. report, this bridge is considered a low risk for scour.

Inspected By : Barry L. Pavan


Registered Civil Engineer

CC : TMRut, DSM&I
Steve Jaques, Hydraulics
Tony Nedwick, Hydraulics
Mac Ogata, ABME - South
County of Orange

Bridge No.: 55C0561 Location: 0.1 MI S DANA PT HRBR DR Inspection Date: 14-AUG-01

CHANNEL X-SECTION

Side : Upstream

X-Section Date : 14-AUG-01

Measured From : Top of PCC Rail

<u>Location</u>	<u>Horiz(m)</u>	<u>Vert(m)</u>	<u>Comments</u>
Abutment 1	0.00	3.47	N. Abutment 1 face & top of slope paving
"	4.19	6.20	toe of concret slope paving
"	6.20	7.83	top of bank slope
"	6.98	8.04	
"	7.44	8.45	
"	10.24	10.46	
"	12.65	11.74	
"	13.89	12.03	
"	15.24	12.07	Pier 2
"	16.41	12.42	
"	19.10	12.67	
"	21.10	12.77	
"	24.26	12.80	
"	26.67	12.77	
"	29.69	12.75	
"	30.48	12.73	Pier 3
"	31.47	12.79	
"	34.70	12.79	
"	37.01	12.79	
"	39.75	12.74	
"	41.86	12.66	
"	44.98	12.09	
"	45.72	12.18	Pier 4
"	46.69	11.78	
"	49.23	10.61	toe of bank slope
"	53.19	7.88	break in slope
"	53.36	6.42	top of bank slope
"	54.99	6.36	toe of slope paving
"	59.23	3.61	S. Abutment 5 face & top of slope paving



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0561
Facility Carried: ISLAND WAY
Location : 0.1 MI S DANA PT HRBR DR
City :
Inspection Date : 12-JUN-01
Inspection Type
Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Bridge Inspection Report

Name : DANA POINT HARBOR

CONSTRUCTION INFORMATION

Year Built : 1970 Skew (degrees): 0
Year Widened : N/A No. of Joints : 0
Length (m) : 62.2 No. of Hinges : 0

Description of Structure : Simply supported 4-span PC/PS concrete box girder (8 units) with a continuous RC deck and RC single column bents and RC closed end strutted abutments, all supported upon spread footings.

Span Configuration : (S) 4 @ 15.2 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : M - 18 OR H - 20
Inventory Rating : 32.6 metric tons Calculation Method : LOAD FACTOR
Operating Rating : 53.5 metric tons Calculation Method : LOAD FACTOR
Permit Rating : PPPPP
Posting Load : Type 3 N/A english tons Type 3S2 N/A english tons Type 3-3 N/A english tons

DESCRIPTION ON STRUCTURE

Bridge width : (W) 0.4 m br, 1.5 m sw, 2 @ 4.3 m, 1.5 m sw, 0.4 m br (E)
Total Width : 12.5 m Net Width : 8.50 m No. of Lanes : 2
Rail Description : Misc. Rail Code : 1000
Min. Vertical Clearance : Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description : Tidal basin.

CONDITION OF STRUCTURE

There are vertical cracks and rust stains on the two northerly columns at the tide line. (O)

Otherwise, the structure is in good condition.

UNDERWATER INVESTIGATION

The structure is in a boating harbor and requires a Type B investigation. Place the structure on the underwater investigation schedule.

MISCELLANEOUS

The structure is scheduled to be retrofitted seismically.

ELEMENT LEVEL INSPECTION RATINGS

F#	Elem No.	Element Description	Env	Total Units Quantity	Qty in each Condition State				
					St. 1	St. 2	St. 3	St. 4	St. 5
01	13	Concrete Deck - Unprotected w/ AC Overlay	3	520 sq.m.	520	0	0	0	0
01	104	P/S Conc Closed Web/Box Girder	3	62 m.	62	0	0	0	0
01	205	Reinforced Conc Column or Pile Extension	4	3 ea.	1		2	0	0
01	215	Reinforced Conc Abutment	2	24 m.	24	0	0	0	0
01	234	Reinforced Conc Cap	3	36 m.	36	0	0	0	0
01	256	Slope Protection	3	2 ea.	2	0	0	0	0
01	312	Enclosed/Concealed Bearing	3	8 ea.	8	0	0	0	0

Bridge No.: 55C0561 Location: 0.1 MI S DANA PT HRBR DR Inspection Date: 12-JUN-01

F#	Elem No.	Element Description	Env	Total Units Quantity	Qty in each Condition State				
					St. 1	St. 2	St. 3	St. 4	St. 5
01	335	Other Bridge Railing	2	140 m.	140	0	0	0	0

WORK RECOMMENDATIONS

Epoxy inject the cracks at the tide line in the two northerly columns.

Item#	Rec. Date	Work By	Work Id.	Prog. Method	Cost
1	29-DEC-1998	County Agency	40561X98363X		

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer

CC : TMRut
Orange County
OGreene

Bridge No.: 55C0561

Location: 0.1 MI S DANA PT HRBR DR

Inspection Date: 12-JUN-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0561
 (5) INVENTORY ROUTE (ON/UNDER) - ON 1 40 00000N
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - DANA POINT HARBOR
 (7) FACILITY CARRIED - ISLAND WAY
 (9) LOCATION - 0.1 MI S DANA PT HRBR DR
 (11) MILEPOINT/KILOMETERPOINT 0
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 27 MIN 39 SEC
 (17) LONGITUDE 117 DEG 42 MIN 00 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

***** STRUCTURE TYPE AND MATERIAL *****

(43) STRUCTURE TYPE MAIN: MATERIAL - PRSTR CONC CONT
 TYPE - BOX BEAM OR GDR - MULTIPLE CODE 6 05
 (44) STRUCTURE TYPE APPR: MATERIAL -
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE PRECAST CONC. PANELS CODE 2
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) TYPE OF WEARING SURFACE - BITUMINOUS CODE 6
 B) TYPE OF MEMBRANE - NONE CODE 0
 C) TYPE OF DECK PROTECTION - NONE CODE 0

***** AGE AND SERVICE *****

(27) YEAR BUILT 1970
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON - HIGHWAY-PEDESTRIAN 5
 UNDER - WATERWAY 5
 (28) LANES: ON STRUCTURE 02 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 3000
 (30) YEAR OF ADT 1998 (109) TRUCK ADT 1%
 (19) BYPASS, DETOUR LENGTH 199 KM

***** GEOMETRIC DATA *****

(48) LENGTH OF MAXIMUM SPAN 15.2 M
 (49) STRUCTURE LENGTH 62.2 M
 (50) CURB OR SIDEWALK: LEFT 1.5 M RIGHT 1.5 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 8.5 M
 (52) DECK WIDTH OUT TO OUT 12.5 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 8.5 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 0 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 8.5 M
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M
 (54) MIN VERT UNDERCLEAR REF - NOT H/RR 0 M
 (55) MIN LAT UNDERCLEAR RT REF - NOT H/RR 0 M
 (56) MIN LAT UNDERCLEAR LT 0 M

***** NAVIGATION DATA *****

(38) NAVIGATION CONTROL - NO CONTROL CODE 0
 (111) PIER PROTECTION - NONE - REEVALUATE CODE 5
 (39) NAVIGATION VERTICAL CLEARANCE 0 M
 (116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR 0 M
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

***** SUFFICIENCY RATING = 61.0 *****

STATUS =

HEALTH INDEX = 99.23

***** CLASSIFICATION ***** CODE

(112) NBIS BRIDGE LENGTH - YES Y
 (104) HIGHWAY SYSTEM - NOT ON NHS 0
 (26) FUNCTIONAL CLASS - LOCAL URBAN 19
 (100) DEFENSE HIGHWAY - NOT STRAHNET 0
 (101) PARALLEL STRUCTURE - NONE EXISTS N
 (102) DIRECTION OF TRAFFIC - 2 WAY 2
 (103) TEMPORARY STRUCTURE -
 (105) FEDERAL LANDS HIGHWAY - NOT APPLICABLE 0
 (110) DESIGNATED NATIONAL NETWORK - NOT ON NET 0
 (20) TOLL - ON FREE ROAD 3
 (21) MAINTAIN - COUNTY HIGHWAY AGENCY 2
 (22) OWNER - COUNTY HIGHWAY AGENCY 2
 (37) HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5

***** CONDITION ***** CODE

(58) DECK 7
 (59) SUPERSTRUCTURE 8
 (60) SUBSTRUCTURE 6
 (61) CHANNEL & CHANNEL PROTECTION 9
 (62) CULVERTS N

***** LOAD RATING AND POSTING ***** CODE

(31) DESIGN LOAD - M - 18 OR H - 20 4
 (63) OPERATING RATING METHOD - LOAD FACTOR 1
 (64) OPERATING RATING - 53.5
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 32.6
 (70) BRIDGE POSTING - Equal to or above legal loads 5
 (41) STRUCTURE OPEN, POSTED OR CLOSED - A
 DESCRIPTION - OPEN, NO RESTRICTION

***** APPRAISAL ***** CODE

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 9
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 1000
 (113) SCOUR CRITICAL BRIDGES 6

***** PROPOSED IMPROVEMENTS *****

(73) TYPE OF WORK - CODE
 (76) LENGTH OF STRUCTURE IMPROVEMENT M
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114) FUTURE ADT 3000
 (115) YEAR OF FUTURE ADT 2010

***** INSPECTIONS *****

(90) INSPECTION DATE 06/01 (91) FREQUENCY 24 MO
 (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO -1 MO A)
 B) UNDERWATER INSP - NO -1 MO B)
 C) OTHER SPECIAL INSP - NO -1 MO C)

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 2/93)

TYPE OF INVESTIGATION/REPORT

BIENNIAL	_____	DAMAGE	_____
CATEGORY A	_____	OTHER	_____
UNDERWATER	_____	OFFICE	<u>X</u>

Bridge Number 55C-561

Old: 12-Ora-CS-DaPt

Location New: 12 - Ora - CR

Dist.-Co.-Rte.-City

Date of Investigation August 11, 1997

Name DANA POINT HARBOR (Island Way, 0.1 mile south of Dana Point Harbor Drive)

CONDITION RATINGS:

Not rated.

Channel & Channel Protection

☐

MISCELLANEOUS DISCUSSION:

The structure is owned by the County of Orange.

MISCELLANEOUS FILE WORK:

Remove the records for Bridge No. 55C-561 from the City of Dana Point files and place them in the County of Orange files.

M. Ogata

M. Ogata



MO:cd

c: TMRut
Orange County
City of Dana Point

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 2/93)

Bridge Number 55C-561

Location 12 - Ora - CS - DaPt
Dist.-Co.-Rte.-City

Date of Investigation July 28, 1995

TYPE OF INVESTIGATION/REPORT

BIENNIAL	<u>X</u>	DAMAGE	___
CATEGORY A	___	OTHER	___
UNDERWATER	___	OFFICE	___

Name DANA POINT HARBOR (Island Way, 0.1 mile south of
Dana Point Harbor Drive)

CONDITION RATINGS:

Condition ratings of all bridge elements are
shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

9

SCOUR CRITICAL:

A scour rating of A-1 is appropriate.

CONDITION OF STRUCTURE:

- A. Rust stains in both pier 3 and pier 4 to the high water mark was observed.
- B. Previously repaired cracks in both ends of the south abutment, have cracked again.
- C. There are spalls in west sidewalk, about 15 m from south abutment and rebar is exposed. This spall has previously been repaired but has spalled again.

Condition of structure is good.

WORK RECOMMENDED:

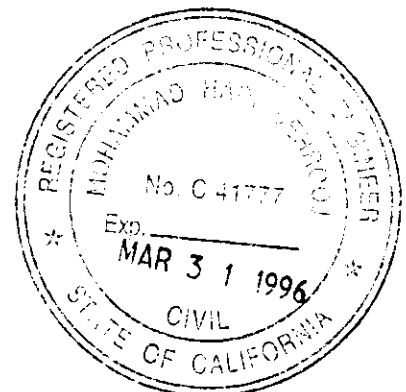
- 1. Repair concrete crack in location "B".
- 2. Cut neat lines around spalled area for location "C". Chip concrete at least 25 mm deep and repour with concrete set 45.

ENCROACHMENT:

One 0.25 m welded steel pipe supported on exterior of west bridge rail.

By M. Hadi Behrooj
G. P. Balinghasay

GPB:cd
cc: CDHarris
City of Dana Point
W. Lindsey



INFORMATION ONLY - NOT FOR UPDATE

SCOUR CRITICAL	NO
CATEGORY A	NO
FRACTURE CRITICAL	NO
ELIGIBLE FOR RAIL UPGRADE	NO
UNDERWATER INSPECTION	NO

DISTRICT	12
COUNTY	ORA
ROUTE	
POSTMILE	
NAME	

08/02/95

BY: [Signature]

Bridge No. 55C-561

Name DANA POINT HARBOR (Island Way, 0.1
mile S. of Dana Point Harbor Dr.)

Location 12-Ora-CS-DaPt
Dist.-Co.-Rte.-City

SUMMARY OF ENCROACHMENTS

Permit No. and Permittee	Date	Description & Location on Bridge
	Prior to 7-28-95	1 - 0.25 m welded steel pipe supported on exterior of west bridge rail.

HBD M 30

Bridge Number 55C-561

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE
CATEGORY A OTHER
UNDERWATER OFFICE

Location 12 - Ora - CS - DaPt
Dist.-Co.-Rte.-City

Date of Investigation May 12, 1993

Name DANA POINT HARBOR (Island Way, 0.1 mile south of
Dana Point Harbor Drive)

CONDITION RATINGS:

Condition ratings of all bridge elements are
shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

9

CONDITION OF STRUCTURE:

There are a few rust stains on east face of the Pier 4 (from south) concrete column near high tide water line, likely from rusting of reinforcing steel within.

Condition of the structure is good.

WORK RECOMMENDED:

None.

Henry Ma

HM:cd

cc: INagai (2)
City of Dana Point



PONTIS DATA FORM - PIA

INFORMATION ONLY - NOT FOR UPDATE	
SCOUR CRITICAL	NO
CATEGORY A	NO
FRACTURE CRITICAL	NO
ELIGIBLE FOR RAIL UPGRADE	NO
UNDERWATER INSPECTION	NO

DISTRICT	12
COUNTY	ORA
ROUTE	***
POSTMILE	*****
NAME	

[illegible]

BY: D.M.

BRIDGE REPORT

DS-M38 (REV. 1/91)

14W44

Bridge No. 55C - 561

Location 12 - Ora - CS-DaPt

Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation May 16, 1991

DANA POINT HARBOR

Name (Island Way, 0.1 mile south of Dana Point Harbor Drive)

Lat. 33° - 27.6'N Long. 117° - 41.9'W

Custodian City of Dana Point Owner City of Dana Point

STRUCTURAL DATA AND HISTORY

Year Built 1970 By County of Orange Contract No. Unknown

Designed by: Koebig & Koebig, Inc. Plans Avail. @DOS

Description:

4 span simply supported PC/PS concrete box girder units (8 each) and continuous RC deck supported by RC single flared column bents at piers and abutments, all on spread footing. Embankment slopes paved with PCC.

Spans (S) 4 @ 50' (N)

Length 204' NBIS Bridge Length Yes Skew None

Number Of Intermediate Joints: @Hinges None @Bents None

Maximum Column/Pier Height: (Less than 20') X (20'-29') (30' & Over)

Design Live Load H20-44 (AASHTO 1965) Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (W) 1.4'br. 5'sw. 28'. 5'sw. 1.4'br (E)

Total Width 41' Net Width 28' Lanes 2 Tracks None

Median None Rail Type Concrete parapet and aluminum tube

1000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 28'

Deck Type 2 Wearing Surface/Prot. Sys. 600 AC/none

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None

Clearances: Road: Vert. Horiz. Lt. ; Rt.

Lanes Tracks

Facilities Crossed Pleasure boat harbor

May 16, 1991

DESCRIPTION - HYDRAULICS

Channel Tidal basin

Navigable: Yes ☐ No ☒ Clearances: Vert.

Horiz.

Pier/Abutment Protection (For Navigation) ☐

TRAFFIC INFORMATION

	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	3,000 Est	1991	N	
Average Daily Traffic (Future) :	3,000 Est	2010	N	
Average Daily Trucks (% OF ADT) :	1% Est		N	
Bypass Detour Length	99 miles		N	
Shell Route:	No		No	
Functional Classification :	19		N	
LOAD RATINGS:	Inventory HS 20	Operating	HS 33	
	Permit P P P P P	Computation Method	Assigned	

CONDITION RATINGS:

Deck	8	Superstructure	8	Substructure	8
Channel & Channel Protection	9	Culvert	N	Widenable	Yes

APPRAISAL RATINGS:

Waterway Adequacy	9	Approach Roadway Alignment	8
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Date of Revisions

CONDITION OF STRUCTURE:

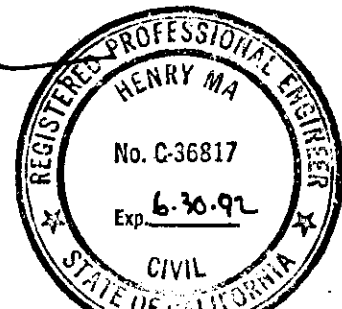
There are some minor cracking and spalls of sidewalk concrete at the abutments.

Condition of the structure is good.

ENCROACHMENT:

10" welded steel pipe supported on exterior of west bridge rail.

Henry Ma



HM:ms

cc: INagai (2)
City of Dana Point

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE REPORT
DS-M58 (REV. 1/81)

Bridge No. 55C-561

Other No. _____

P.U.C. No. _____

Location 12-Ora-CS-DaPt
Dist - Co - Rte - PM - City

Date of Investigation 5-25-89

SEE REVISED

ORIGINAL REPORT

Name DANA POINT HARBOR (Island Way, 0.1 mile south of Dana Point Harbor Drive)

Lat. 33° 27.6'N Long. 117° 41.9'W

STRUCTURAL DATA AND HISTORY

Year Built 1970 By Orange County Harbor District Contract No. Unknown

Date of Revisions _____

Designed by: B.D. ☐ Koebig & Koebig, Inc. Plans Avail. @ B.D.

Description: 4 span continuous RC deck on simply supported PC/PS concrete box girder units (8 each), supported by RC single flared column bent caps at piers and abutments, all on RC spread footing. Embankment at bridge paved with PCC.

Spans 4 @ 50'

Length 204' Skew None Design LL H20-44 (AASHTO 1965)

Ratings: Inventory HS20/Assigned Operating HS 33/Assigned Permit PPPPP/Assigned

DESCRIPTION - ON STRUCTURE (Shell Rte.: Yes ☐ No ☒)

Bridge Width (W) 1.4'br, 5'sw, 28', 5'sw, 1.4'br (E)

Total Width 41' Lanes 2 Tracks N

Median None Rail Type Aluminum tube on concrete parapet (1000)

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 28'

Wearing Surface AC overlay Deck Prot. Sys. None

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE (Shell Rte.: Yes ☐ No ☒)

Roadway Section None

Clearances: Vert. _____ Horiz.: _____ Lt. _____ Rt. _____

Lanes _____ Tracks _____ Pumpplant: None ☐ See Br. No. _____

Facilities Crossed Pleasure Boat Harbor

DESCRIPTION - HYDRAULICS

Channel Tidal boat harbor

Navigable: Yes ☒ No ☐ Clearances: Vert. _____ Horiz. _____

MAINTENANCE

Custodian City of Dana Point Owner City of Dana Point

**ORIGINAL
CONDITION RATING**

**ORIGINAL
APPRAISAL**

Deck	<u>8</u>
Superstructure	<u>8</u>
Substructure & Pipes	<u>8</u>
Channel & Channel Protection	<u>8</u>
Retaining Walls	<u>N</u>
Approach Rdwy. Alignment	<u>8</u>
Estimated Remaining Life	<u>50</u>

Overall	<u>8</u>
Deck Geometry	<u>6</u>
Underclearances	Vert. <u>N</u>
	Horiz. <u>N</u>
Safe Load Capacity	<u>9</u>
Waterway Adequacy	<u>8</u>
Approach Rdwy. Alignment	<u>8</u>

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required: Yes ☐ No ☒

Average Daily Traffic & Year 3,000 (est. 1989)

Posting Required: None ☒ Load ☐

Bypass Detour Length 99 (none)

Speed ☐

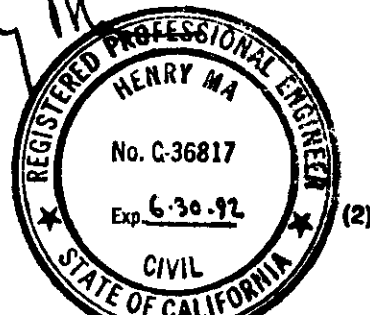
Seismic Retrofit Incorporated in construction.

CONDITION OF STRUCTURE: Condition of the structure is good.

LOAD CAPACITY: The ratings shown were assigned based on known factors (i.e. volume of traffic, year built, design live load, etc.) and condition of the structure.

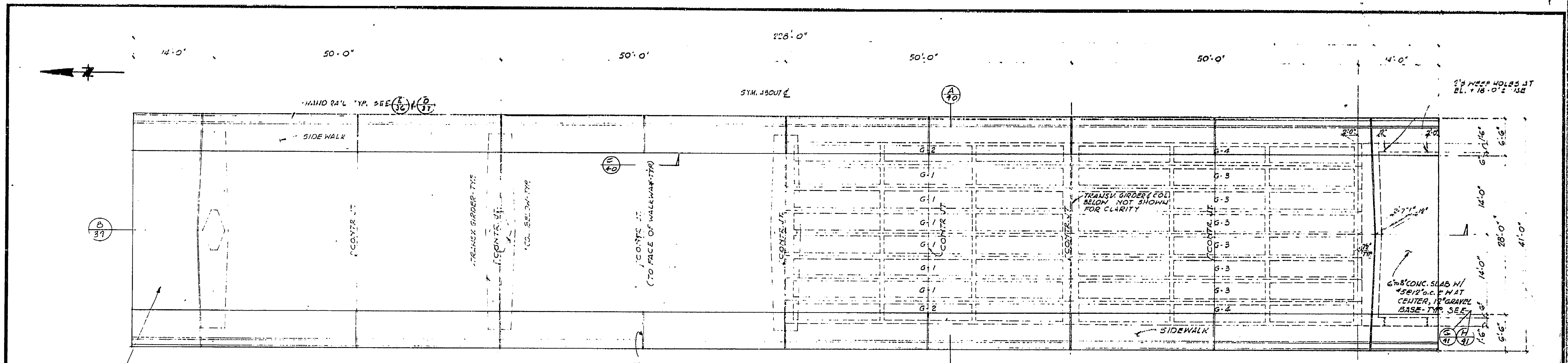
ENCROACHMENT: 10" welded steel pipe supported on exterior of west railing.

Henry Ma



HM/cd

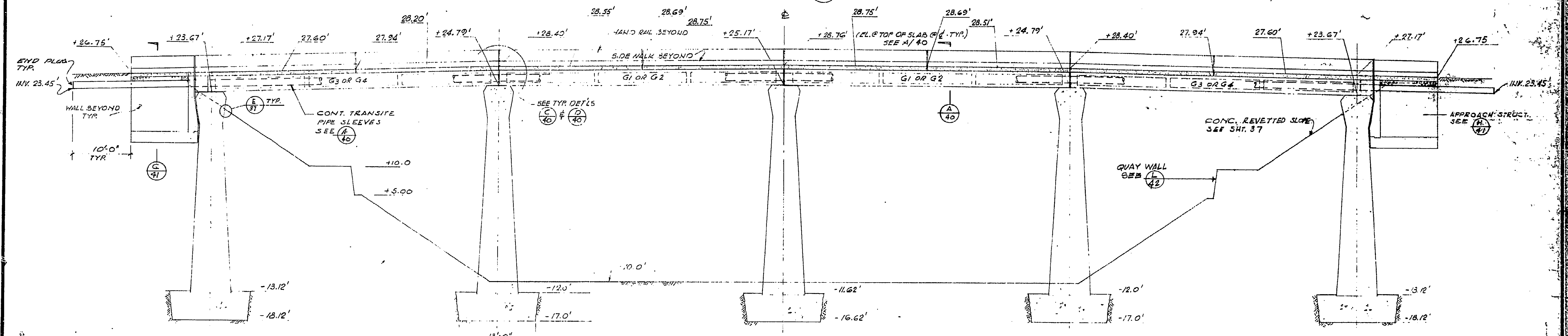
cc: INagai (2)
City of Dana Point (2)



NOTE: APPROACH STRUCTURES TO BE CONSTRUCTED SIX MONTHS AFTER COMPLETION OF FILL. MODIFIED BY CONTRACTOR REQUEST

NOTE: SEE SH. 37 FOR PLAN OF REVETTED SLOPE & BRIDGE SUPPORT.

PLAN A SEE PARTIAL PLAN A



NOTE: CONCRETE FOOTINGS PLACED AGAINST CUT BANK

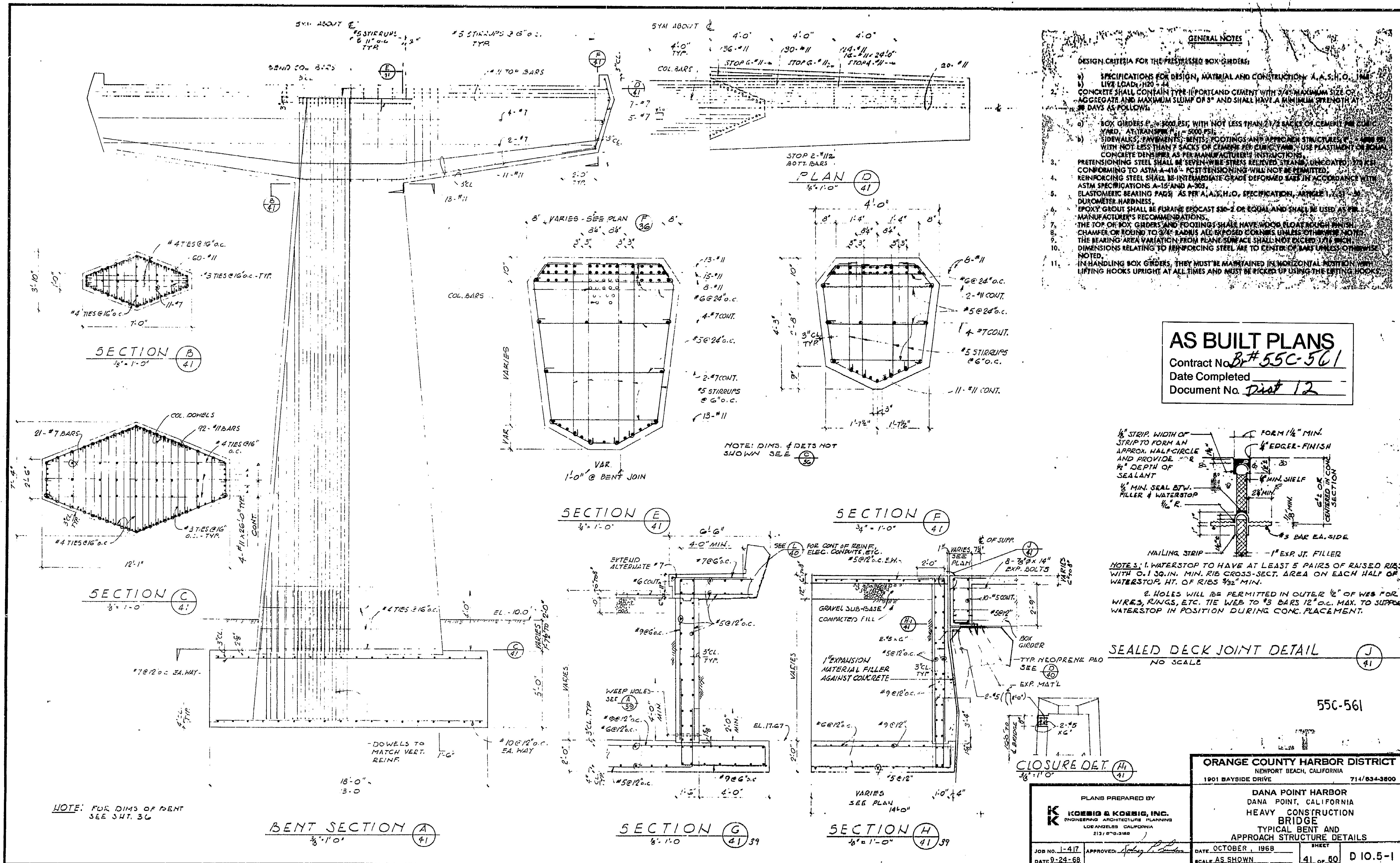
SECTION B

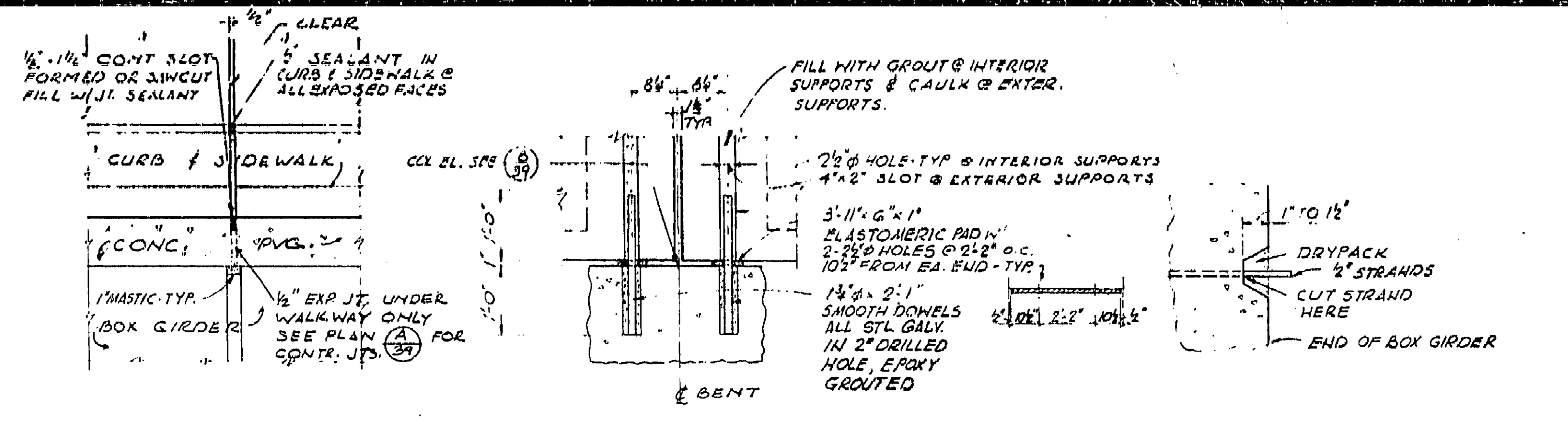
AS BUILT PLANS
Contract No. **B# 55C-561**
Date Completed
Document No. **Dist 12**

ORANGE COUNTY HARBOR DISTRICT NEWPORT BEACH, CALIFORNIA 1901 BAYSIDE DRIVE 714/834-3800	
DANA POINT HARBOR DANA POINT, CALIFORNIA HEAVY CONSTRUCTION BRIDGE STRUCTURAL PLAN AND SECTION	
PLANS PREPARED BY K KOEBSIG & KOEBSIG, INC. ENGINEERING ARCHITECTURE PLANNING LOS ANGELES, CALIFORNIA 213/688-3188	JOB NO. 1-417 DATE 9-24-58
APPROVED: <i>[Signature]</i> DATE 9-24-58	DATE OCTOBER 1958 SCALE AS SHOWN
SHEET 39 OF 60 D 10.5-1	

29X

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 TRANSPORTATION.
3-26-90
[Signature]
 SUPERVISOR OF MICROFILM SERVICES

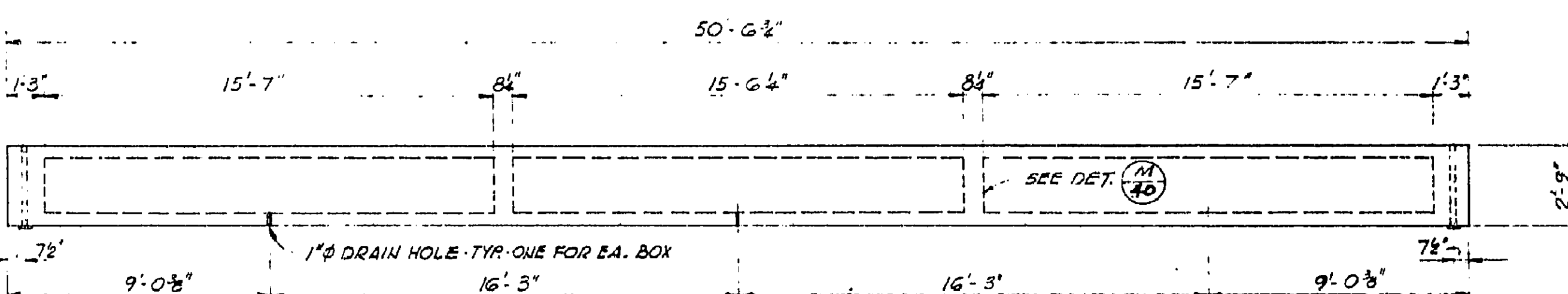




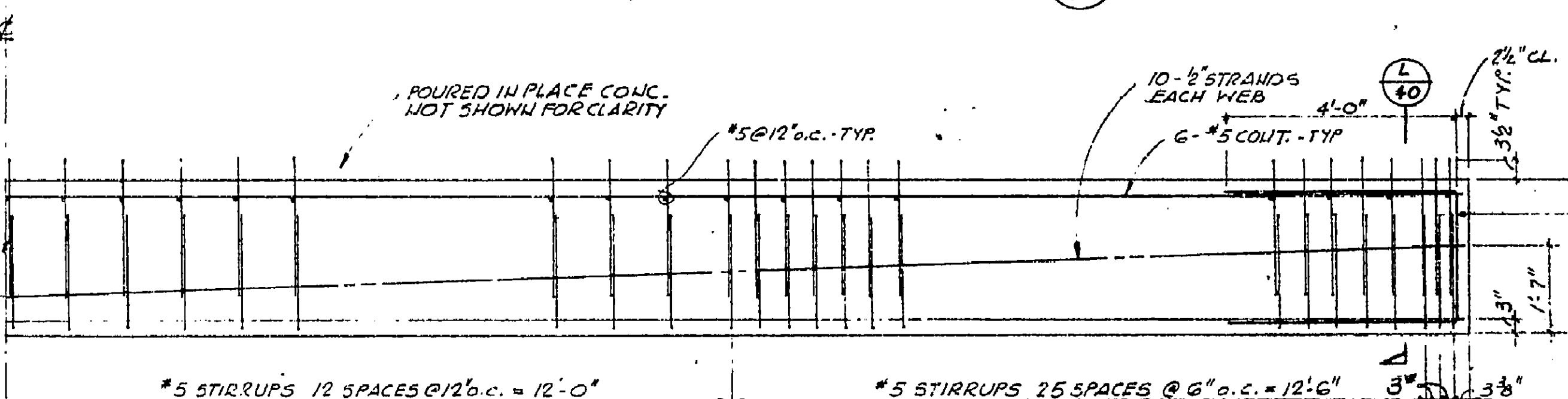
DET. @ ENDS OF PRESTRESSING

5 STRANDS NO SCALE

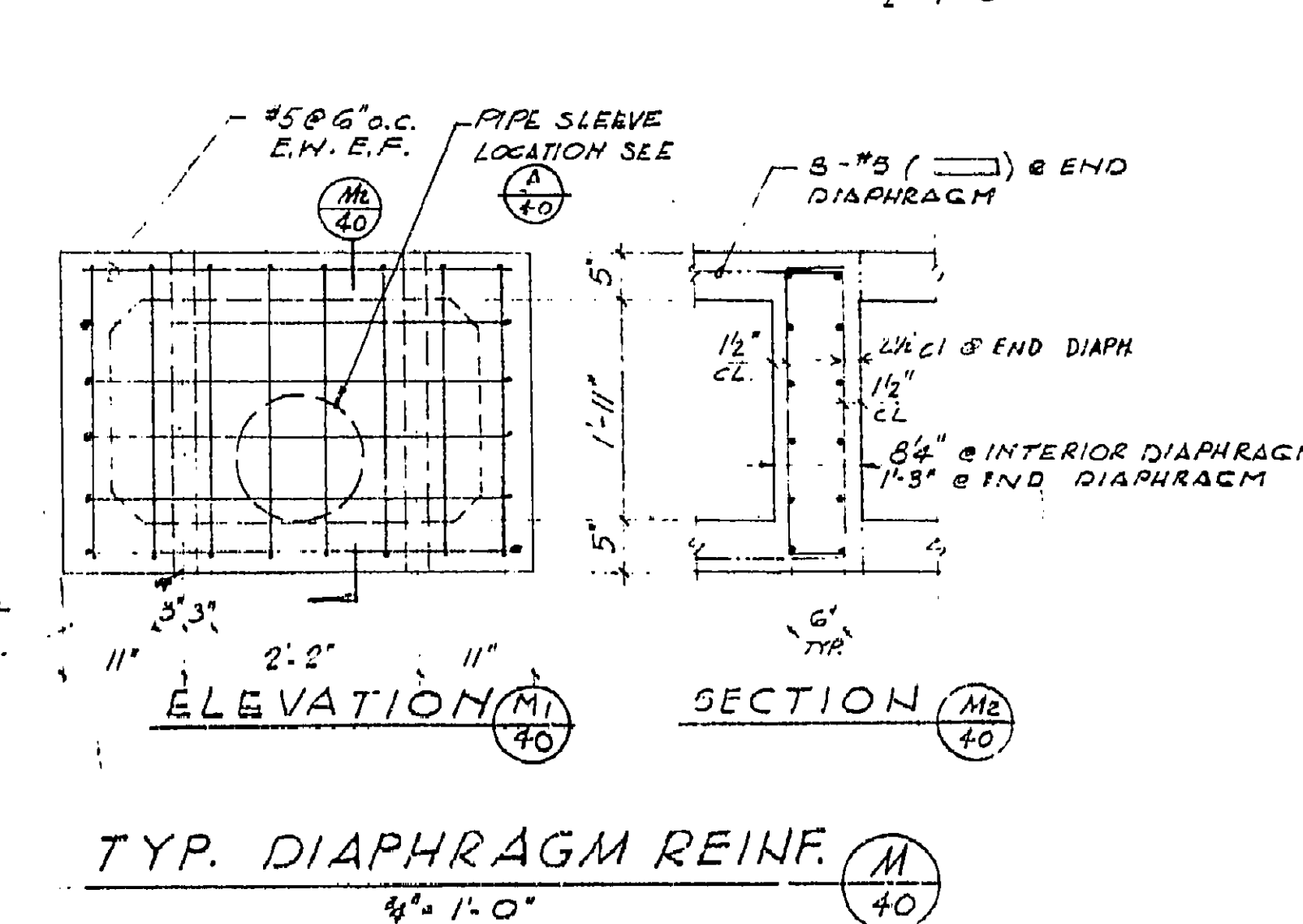
$\frac{E}{40}$



BOX GIRDERS 'G-3' & 'G-4' DETAIL (G)
4' - 1' - 0" 40

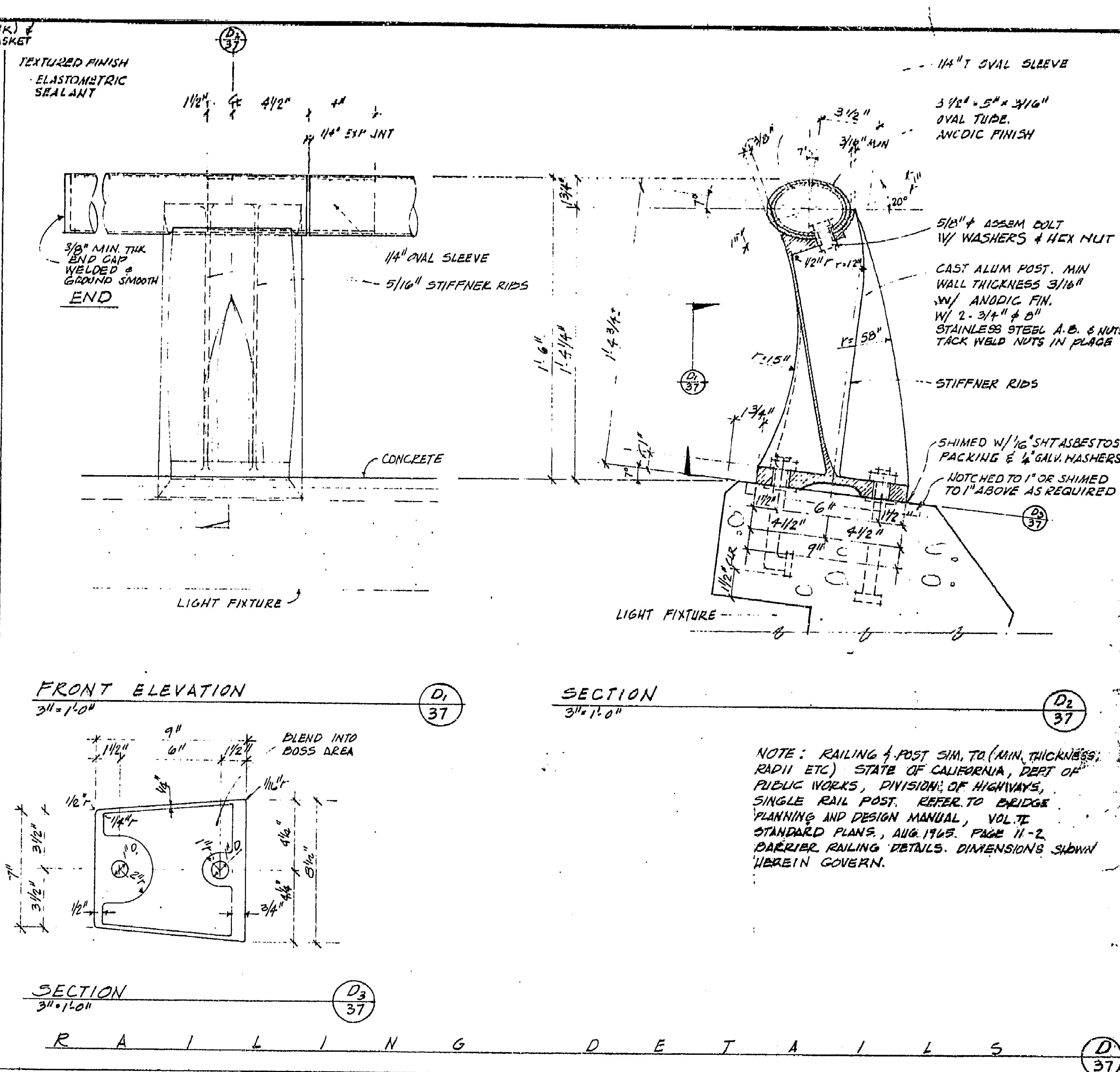
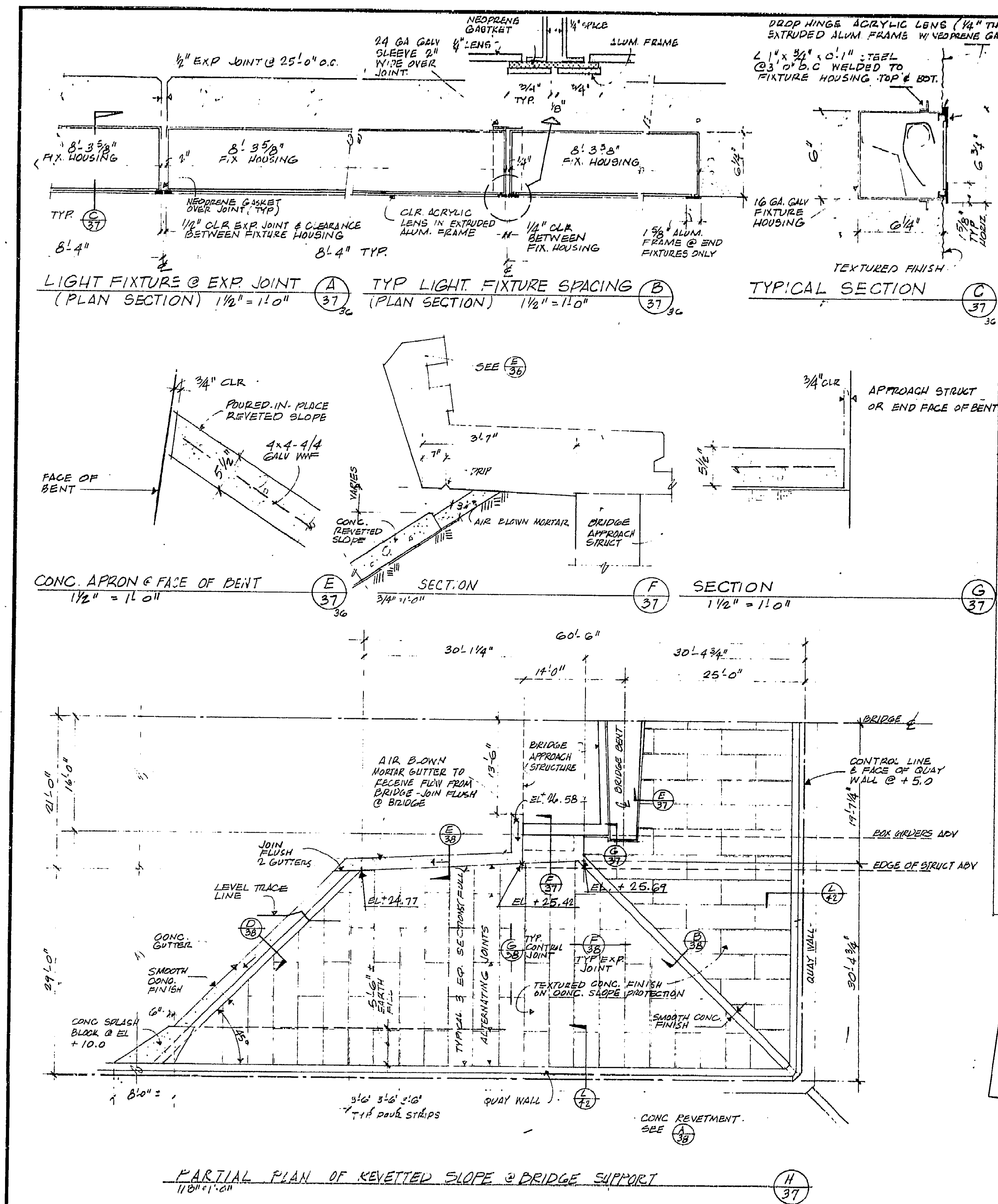


BOX GIRDERS 'G-2' & 'G-4' PRESTRESSING DETAIL



55C-561

DATE <u>OCTOBER, 1968</u>	SHEET	D 10.5 - 1
SCALE <u>AS SHOWN</u>	<u>40 or 50</u>	



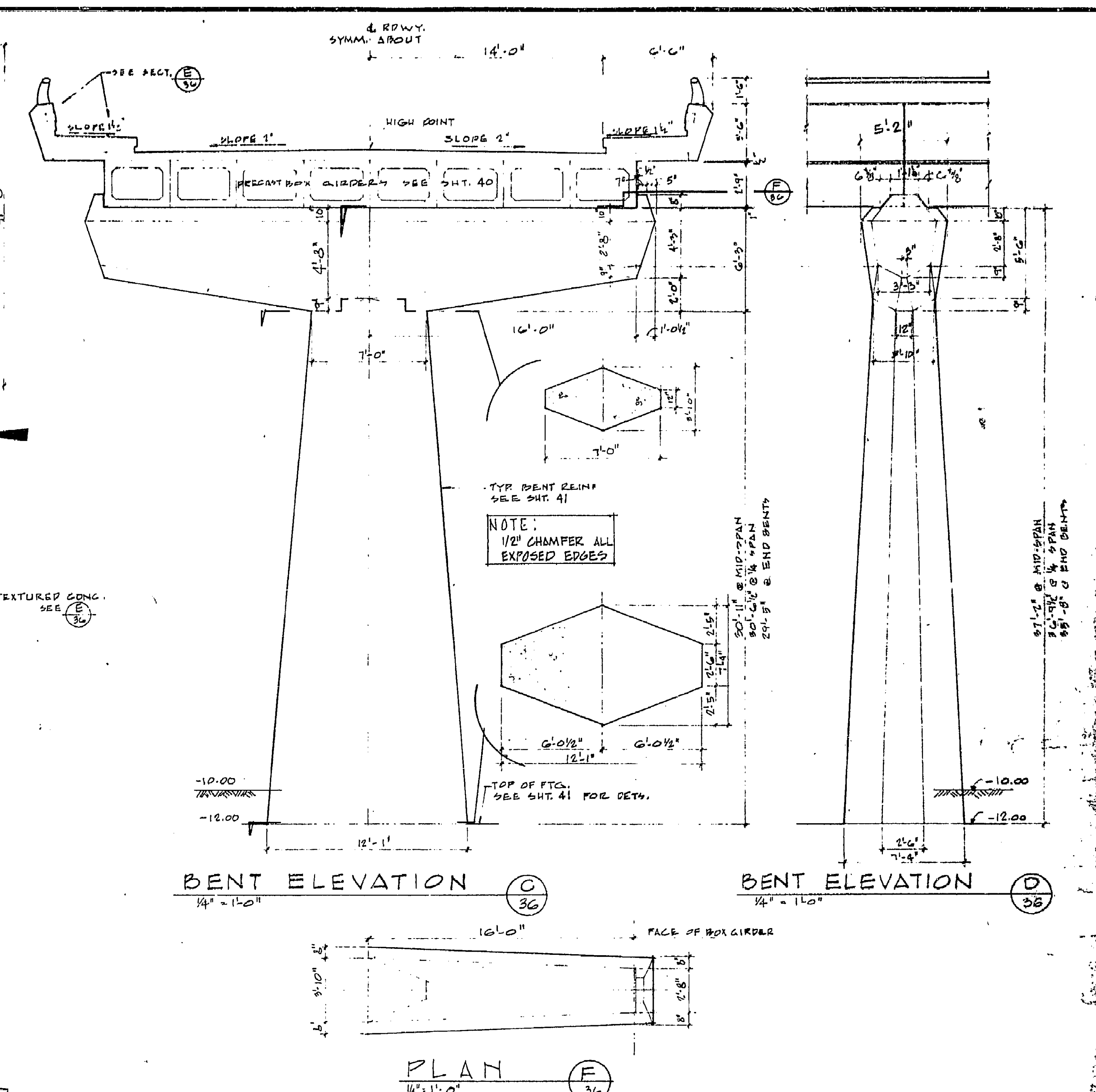
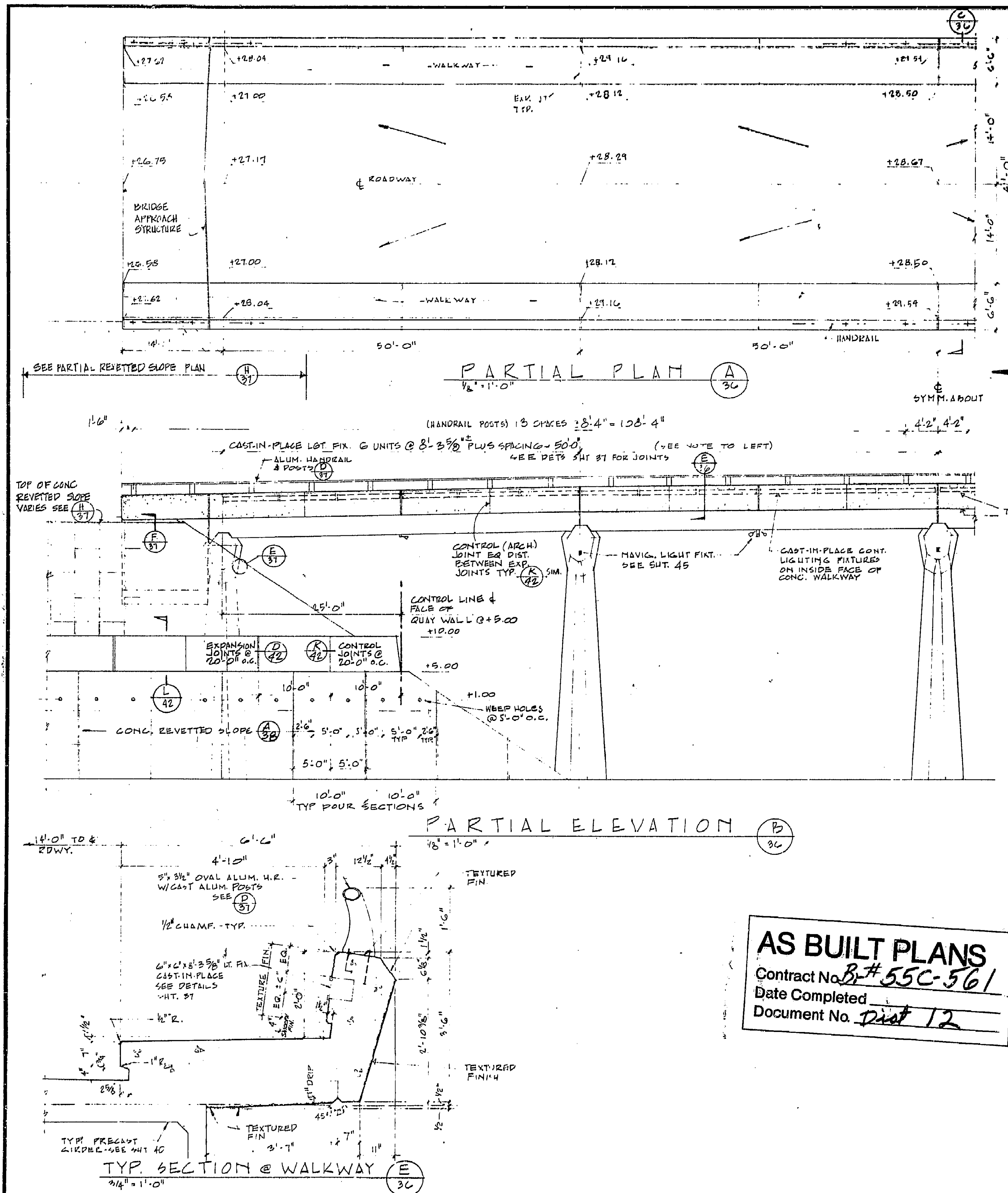
NOTE: RAILING & POST SIM. TO (MIN. THICKNESS, RADIUS ETC.) STATE OF CALIFORNIA, DEPT OF PUBLIC WORKS, DIVISION OF HIGHWAYS, SINGLE RAIL POST. REFER TO BRIDGE PLANNING AND DESIGN MANUAL, VOL. 2, STANDARD PLANS, AUG 1963, PAGE 11-2. RAILING RAILING DETAILS. DIMENSIONS SHOWN HEREIN GOVERN.

AS BUILT PLANS
 Contract No. **55C-561**
 Date Completed
 Document No. **Dist 12**

ORANGE COUNTY HARBOR DISTRICT NEWPORT BEACH, CALIFORNIA 1001 BAYSIDE DRIVE 714/834-3800	
DANA POINT HARBOR DANA POINT, CALIFORNIA HEAVY CONSTRUCTION BRIDGE HAND RAIL AND MISCELLANEOUS DETAILS	
PLANS PREPARED BY K KOEBIG & KOEBIG, INC. ENGINEERING ARCHITECTURE PLANNING LOS ANGELES, CALIFORNIA 212/522-3192	JOB NO. 1-417 DATE 9-24-68 APPROVED: <i>[Signature]</i> DATE OCTOBER 1968 SCALE AS SHOWN
SHEET 37 OF 50 D 10.5-1	

29X

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 TRANSPORTATION.
3-26-90 *[Signature]* SUPERVISOR OF MICROFILM SERVICES



AS BUILT PLANS
 Contract No. B-55C-561
 Date Completed _____
 Document No. Dist 12

55C - 561

ORANGE COUNTY HARBOR DISTRICT NEWPORT BEACH, CALIFORNIA 1801 BAYSIDE DRIVE 714/334-3300	
PLANS PREPARED BY KOBBIG & KOBBIG, INC. ENGINEERING ARCHITECTURE PLANNING LOS ANGELES, CALIFORNIA 210/808-3008	DANA POINT HARBOR DANA POINT, CALIFORNIA HEAVY CONSTRUCTION BRIDGE ARCHITECTURAL PLAN, ELEVATION AND MISCELLANEOUS DETAILS
JOB NO. 1-417 DATE 9-24-68	APPROVED: <i>[Signature]</i> DATE OCTOBER, 1968 SCALE AS SHOWN
SHEET 36 OF 50 D 10.5-1	

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 TRANSPORTATION.

3-26-90 *[Signature]* SUPERVISOR OF MICROFILM SERVICES