
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 : 55C0550
Facility Carried: ALISO CREEK RD
Location : 100' W ALICIA PKWAY
City :
Inspection Date : 12-JUN-01

Bridge Inspection Report

Inspection Type
Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Name : ALISO CREEK

CONSTRUCTION INFORMATION

Year Built : 1988
Year Widened : N/A
Length (m) : 51.8
Skew (degrees): 20
No. of Joints : 0
No. of Hinges : 0

Description of Structure : Single span CIP/PS concrete box girder (16 cells) with RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (W) 50.0 m (E) c/c

LOAD CAPACITY AND RATINGS

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

DESCRIPTION ON STRUCTURE

Bridge width : (S) 0.3 m br, 1.5 m sw, 16.6 m, 1.9 m sw, 0.3 m br (N)
Total Width : 18.9 m Net Width : 16.60 m No. of Lanes : 6
Rail Description : Type 26 conc. Rail Code : 1000
Min. Vertical Clearance : Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth, trapezoidal with RC slope protection thru the site.

CONDITION OF STRUCTURE

There is a vertical crack at the junction of the northwest wingwall and the abutment. The concrete railing has fractured (0.1 m x 0.3 m) at the junction of the northeast wingwall. (0)

Otherwise, the structure is in good condition.

MISCELLANEOUS

A vehicular access ramp is located at the southeast quadrant of the structure.
Pedestrian access beneath the structure is from the northwest quadrant.

ELEMENT LEVEL INSPECTION RATINGS

F#	Elem	Element Description	Env	Total Units Quantity	Qty in each Condition State				
					St. 1	St. 2	St. 3	St. 4	St. 5
01 12		Concrete Deck - Bare	2	830 sq.m.	830	0	0	0	0
01 104		P/S Conc Closed Web/Box Girder	2	104 m.	104	0	0	0	0
01 215		Reinforced Conc Abutment	2	40 m.	40	0	0	0	0
01 256		Slope Protection	2	2 ea.	2	0	0	0	0
01 331		Reinforced Conc Bridge Railing	2	128 m.	127	1	0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0550

Location: 100' W ALICIA PKWAY

Inspection Date: 12-JUN-01

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer

CC : TMRut
Orange County



Bridge No.: 55C0550

Location: 100' W ALICIA PKWAY

Inspection Date: 12-JUN-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0550
 (5) INVENTORY ROUTE (ON/UNDER) - ON 140 0M274N
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - ALISO CREEK
 (7) FACILITY CARRIED - ALISO CREEK RD
 (9) LOCATION - 100' W ALICIA PKWAY
 (11) MILEPOINT/KILOMETERPOINT 0
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 33 MIN 18 SEC
 (17) LONGITUDE 117 DEG 43 MIN 08 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

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

(43) STRUCTURE TYPE MAIN: MATERIAL - PRESTRESS CONC
 TYPE - BOX BEAM CR GDR - MULTIPLE CODE 5 05
 (44) STRUCTURE TYPE APPR: MATERIAL -
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 1
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE C/P CONCRETE CODE 1
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) TYPE OF WEARING SURFACE - CONCRETE CODE 1
 B) TYPE OF MEMBRANE - NONE CODE 0
 C) TYPE OF DECK PROTECTION - NONE CODE 0

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

(27) YEAR BUILT 1988
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON - HIGHWAY-PEDESTRIAN 5
 UNDER - WATERWAY 5
 (28) LANES: ON STRUCTURE 06 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 21000
 (30) YEAR OF ADT 1999 (109) TRUCK ADT 1%
 (19) BYPASS, DETOUR LENGTH 3 KM

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

(48) LENGTH OF MAXIMUM SPAN 50 M
 (49) STRUCTURE LENGTH 51.9 M
 (50) CURB OR SIDEWALK: LEFT 1.5 M RIGHT .6 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 16.6 M
 (52) DECK WIDTH OUT TO OUT 19.9 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 19.5 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 20 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 16.6 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 - NOT APPLICABLE CODE N
 (111) PIER PROTECTION - NOT REQUIRED CODE 1
 (39) NAVIGATION VERTICAL CLEARANCE 0 M
 (116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR 0 M
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

***** SUFFICIENCY RATING = 75.2 *****

STATUS = FUNCTIONALLY OBSOLETE

HEALTH INDEX = 99.99

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

(112) NBIS BRIDGE LENGTH - YES Y
 (104) HIGHWAY SYSTEM - NOT ON NHS 0
 (26) FUNCTIONAL CLASS - MINOR ARTERIAL URBAN 16
 (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 7
 (61) CHANNEL & CHANNEL PROTECTION 9
 (62) CULVERTS N

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

(31) DESIGN LOAD - MS - 18 OR HS - 20 5
 (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 7
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 9
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 1000
 (113) SCOUR CRITICAL BRIDGES 8

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

(75) 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 42000
 (115) YEAR OF FUTURE ADT 2019

***** INSPECTIONS *****

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

Bridge Number 55C-550

Location 12 - Ora - FAU M274-CR
Dist.-Co.-Rte.-City

Date of Investigation October 2, 1997

TYPE OF INVESTIGATION/REPORT

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

Name ALISO CREEK (Aliso Creek Road, 100' west of Alicia Parkway)

CONDITION RATINGS:

Element Level Inspection (ELI) form attached.

Channel & Channel Protection

9

SCOUR CRITICAL:

The scour rating of A-2 is appropriate.

MISCELLANEOUS DISCUSSION:

The inspection team consisted of Makoto Ogata and Faye Kirchhoff.

A vehicular access ramp is located at the southeast quadrant of the structure.

CONDITION OF STRUCTURE:

There is a vertical crack at the junction of the northwest wingwall and the abutment. (0)

Otherwise, the structure is in good condition.

WORK RECOMMENDED:

None.

M. Ogata

M. Ogata



MO:cd

c: TMRut
Orange County

INFORMATION ONLY - NOT FOR UPDATE	
SCOUR CRITICAL.....	NO
GROUP A INVESTIGATION.....	NO
FRACTURE CRITICAL.....	NO
ELIGIBLE FOR RAIL UPGRADE..	NO
UNDERWATER INVESTIGATION...	NO

DISTRICT	12
COUNTY	ORA
ROUTE	
POSTMILE	
NAME	

08/11/97

55C SHAWN ZANGANEH

BY: me

Bridge Number 55C-550

Location 12 - Ora - FAU M274-CR
Dist.-Co.-Rte.-City

Date of Investigation June 21, 1994

TYPE OF INVESTIGATION/REPORT

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

Name ALISO CREEK (Aliso Creek Road, 100' west of Alicia Parkway)

CONDITION RATINGS:

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

Channel & Channel Protection

9

SCOUR CRITICAL:

The scour rating of A-2 is appropriate.

CONDITION OF STRUCTURE:

The structure is in good condition.

REVISIONS:

Date of Revision 1993 widened 21 m on south side.

WORK RECOMMENDED:

None.

M. H. Behrooj *MHB*

By

S. A. Zanganeh
S. A. Zanganeh

M. H. Behrooj

SAZ:cd

cc: CDHarris
Orange County
WLindsey

CH1777

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	

07/10/95

BY: Saz

SUPPLEMENTARY BRIDGE REPORT
DS-M19 (REV. 12/91)

Bridge Number 55C-550

Location 12 - Ora- FAU M274-CR
Dist.-Co.-Rte.-City

Date of Investigation June 10, 1992

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE
CATEGORY A OTHER
UNDERWATER OFFICE

Name ALISO CREEK (Aliso Creek Road, 100' west of Alicia Parkway)

CONDITION RATINGS:

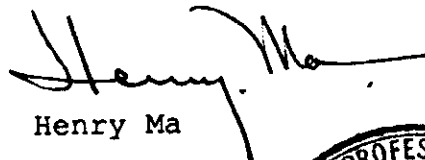
Deck	Superstructure	Substructure	Channel & Channel Protection	Culvert
<u>8</u>	<u>8</u>	<u>8</u>	<u>9</u>	<u>N</u>

DISCUSSION:

On date of inspection, construction is on-going for the widening of this structure on north side.

CONDITION OF STRUCTURE:

Condition of the structure is good.


Henry Ma

HM:cd
cc: INagai (2)
County of Orange



BRIDGE REPORT

14W33

Bridge No. 55C - 550

DS-M58 (REV. 4/90)

Location 12 - Ora - FAU M274-CR
Dist Co Rte City

Date of Investigation May 16, 1990

Name ALISO CREEK (Aliso Creek Road, 100' west of Alicia Parkway)

Lat. 33° - 33.3'N Long. 117° - 43.1'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1988 By County of Orange Contract No. Unknown

Designed by: Libby Structural Engineers Plans Avail. @ DOS

Description: Single span CIP PS concrete box girder (6 cells) supported by open end RC diaphragm abutments on concrete piles. Flared bridge roadway at east end. Cantilever retaining walls on pile footing adjoining bridge wingwalls.

Spans 164' c/c

Length 170' NBIS Bridge Length Yes Skew 20° Right

Number Of Intermediate Joints: @Hinges N @Bents N

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

Design Live Load HS20-44, P-13 & Alt. Design Method Load Factor

DESCRIPTION - ON STRUCTURE

Bridge Width (S) 1'br; 4.8'sw; 54.5'; 2'br & cu (N)

Total Width 62' Net Width 54.5' Lanes 4 Tracks None

Median Double double painted stripe Rail Type 26 with tubular hand rail 1000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 64'

Deck Type 1 Wearing Surface/Prot. Sys. 100 Concrete/None

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None

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

Lanes Tracks

Facilities Crossed Aliso Creek (J01)

May 16, 1990

DESCRIPTION - HYDRAULICS

Channel Earth trapezoidal with light rock slope protection

Navigable: Yes ☐ No ☒ Clearances: Vert.

Horiz.

Pier/Abutment Protection (For Navigation) ☐

TRAFFIC INFORMATION

	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	10,000 Est	1990	N	
Average Daily Traffic (Future) :	14,000 Est	2010	N	
Average Daily Trucks (% OF ADT) :	1% Est		N	
Bypass Detour Length	2 miles		N	
Shell Route:	No		N	
Functional Classification :	14		N	
LOAD RATINGS:	Inventory HS 20	Operating HS 33		
	Permit PPPPP	Computation Method Min By Design		

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:

This structure is new and is in good condition.

Henry Ma

HM:ms

cc: INagai (2)
County of Orange

ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY

SANTA ANA, CALIFORNIA

BLOCK: 5055 MODULE: 28

PLANS FOR THE SOUTHERN PORTION
(PHASE I) OF

ALISO CREEK ROAD BRIDGE
ACROSS ALISO CREEK

(CHANNEL NO. J01)

PREPARED FOR MISSION VIEJO COMPANY
26137 LA PAZ ROAD • MISSION VIEJO, CALIF. 92691
714-837-6050

AS BUILT PLANS
Contract No. 55C-550
Date Completed
Document No. DIST 12

55C-550

ENCROACHMENT PERMIT NUMBERS
FLOOD CONTROL PERMIT 87-00582-FC
ROAD RIGHT-OF-WAY PERMIT 87-02117-RC

SOIL ENGINEER AND GEOLOGIST
LEJMAN AND LEE, INC.
23011 MOULTON PARKWAY SUITE 1-4
LAGUNA HILLS, CA 92653
PHONE (714) 581-5730

COUNTY OF ORANGE
E.M.A. TRAFFIC
ENGINEERING DIVISION
BY: *[Signature]* DATE: 5/16/87
R.C.E. 22351 DATE: 3-31-89
THIS PLAN IS SIGNED BY E.M.A. FOR CONCEPT AND ADHERENCE
COUNTY SIGNING AND STRIPING STANDARDS AND REQUIREMENTS
ONLY. E.M.A., T.E.D. IS NOT RESPONSIBLE FOR DESIGN
ASSUMPTIONS OR ACCURACY.

(619) 283-5424
LIBBY
STRUCTURAL
ENGINEERS
4452 GLACIER AVENUE
SAN DIEGO, CALIFORNIA 92120
DONALD R. LIBBY DATE: S.E. 2878

ENGINEER
Jack G. Raub Company
Engineering & Planning
110 San Diego 125 Bldg. Suite 1000 San Diego, California 92108
714 591-1800

EMA-REGULATION
APPROVED: *[Signature]* 23796
DATE: 5-28-87
RCE
THIS PLAN IS SIGNED BY EMA/REGULATION FOR
CONCEPT AND ADHERENCE TO COUNTY STANDARDS
AND REQUIREMENTS ONLY. EMA/REGULATION IS
NOT RESPONSIBLE FOR DESIGN, ASSUMPTIONS, OR
ACCURACY.

INDEX OF SHEETS

SHEET	DESCRIPTION
1	TITLE SHEET
2	GENERAL PLAN
3	ABUTMENT 1 DETAILS
4	ABUTMENT 2 DETAILS
5	TYPICAL SECTION
6	GIRDER LAYOUT
7	LOG OF BORINGS
8	DETOUR PLAN

UTILITY	PHONE NO.
MOULTON NIGUEL WATER DISTRICT	CARLO HABASH 643-2584
ALISO WATER MANAGEMENT AGENCY	BILL SUKENIK 770-6296
TRI-CITIES MUNICIPAL WATER DISTRICT	RAY WOODSIDE 492-1313
SOUTHERN CALIFORNIA EDISON COMPANY	JAY HICKMAN 859-5241
SOUTHERN CALIFORNIA GAS COMPANY	DOMINICK SORINO 495-4270
PACIFIC TELEPHONE COMPANY	GREG BLANDA 966-6282
UNDERGROUND SERVICE ALERT	(800) 422-4133
COUNTY OF ORANGE E.M.A.	834-3488

BENCH MARK
3X1969 1976, ELEV. 141.622
ABOUT 1.6 MILES N.E. ALONG ALICIA
PKWY FROM THE INTERSECTION OF
NIGUEL RD. AND ALICIA PKWY. TO
CONST. STA. 116+10 AT THE CONCRETE
BRIDGE OVERCROSSING OF ALISO CREEK
60 FT. EAST OF CENTERLINE OF THE
PKWY. SET IN THE TOP OF THE NORTH
END OF CONC. HEADWALL OF STRUCTURE
OVER CREEK, ABOUT LEVEL WITH THE
STREET.

BASIS OF BEARINGS
THE BEARINGS SHOWN HEREON ARE
BASED UPON A LINE BETWEEN
TRIANGULATION STATIONS "7-8-21"
AND "3-2-18-78", BEING N29°35'47"W,
PER O.C.S. 1-1-75 D.T.M. PUBLISHED
BY THE ORANGE COUNTY SURVEYOR.

NO.	DESCRIPTION	SHT.	APPROVED	DATE
1	REVISIONS			
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DWG. NO. SHEET 1 OF 8

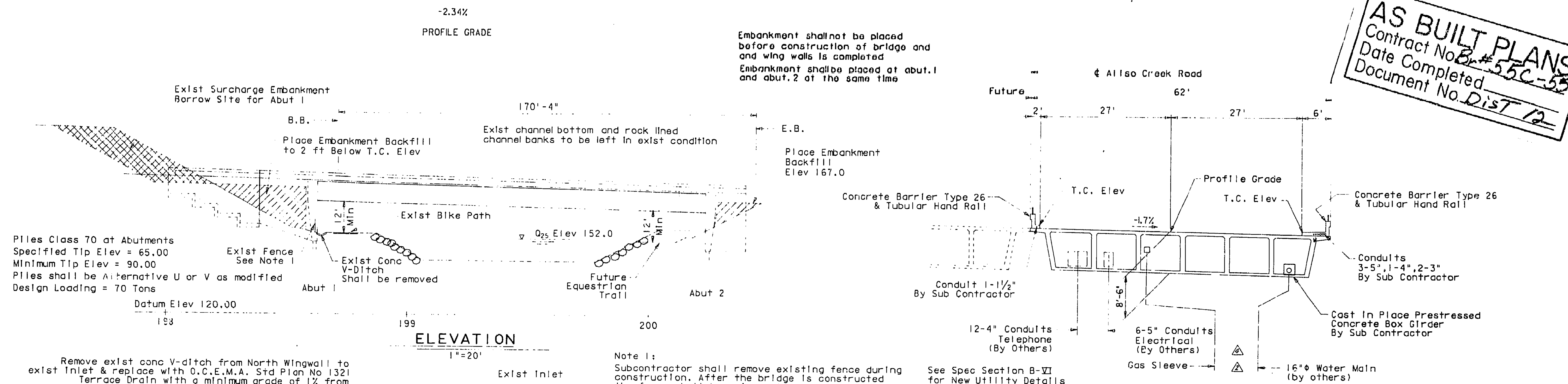
JN AV52/26

DR. 4 (15141)

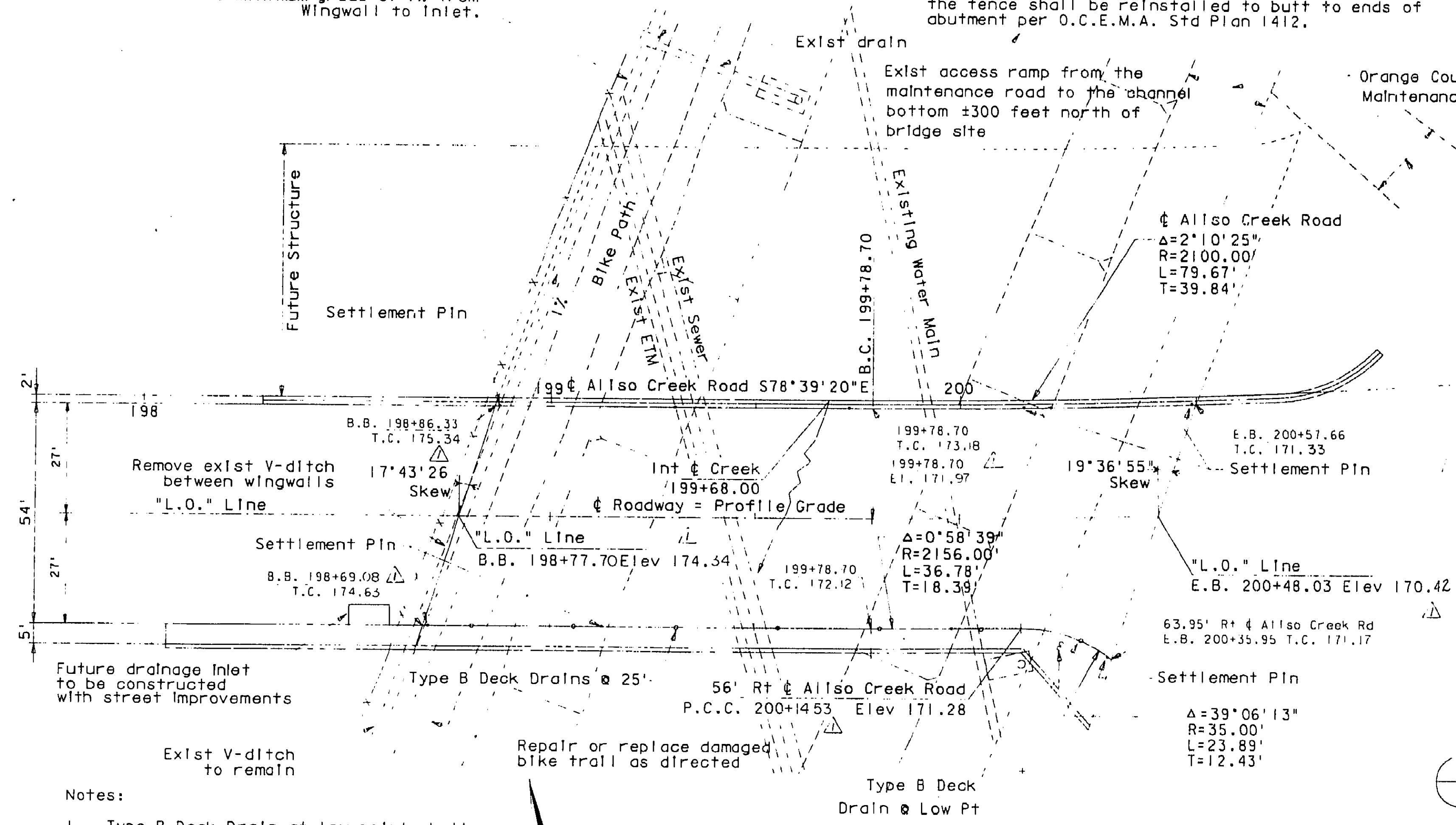
29X

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
SUPERVISOR OF
MICROFILM SERVICES

AS BUILT PLANS
Contract No. 55C-550
Date Completed
Document No. DIST 12



SETTLEMENT PIN ELEVATIONS		
LOCATION	LEFT SIDE (DECK PIN)	RIGHT SIDE (DECK PIN)
Abut 1		
1/4 Span		
1/2 Span		
3/4 Span		
Abut 2		



- STANDARD PLANS DATED JULY 1984
- A62-C Excavation and Backfill Bridge-Limits of Payment
 - B0-1 Bridge Details
 - B0-3 Bridge Details
 - B0-5 Bridge Details
 - B2-5 Pile Details - Class 45 & Class 70 (Modified t=1/2 in)
 - B3-1 Retaining Wall-Type 1 H=4'-30'
 - B7-1 Box Girder Details
 - B7-5 Deck Drains (Modified)
 - B7-10 Utility Opening-Box Girder
 - B7-11 Utilities Details
 - B8-5 Cast-In-Place Prestressed Girder Details
 - B11-51 Tubular Hand Rail
 - B11-54 Concrete Barrier Type 26

APPROXIMATE QUANTITIES	
Furnish Piling (Class 45)	420 LF
Furnish Piling (Class 70)	4264 LF
Prestressing of CIP Concrete	Lump Sum
Concrete Barrier (Type 26) 5' Sidewalk	253 LF
Concrete Barrier (Type 26) 1' Sidewalk	274 LF
Pervious Backfill/Backdrain	Lump Sum
Drive Piling (Class 45)	10 EA
Drive Piling (Class 70)	51 EA

FINAL QUANTITIES	
Structure Excavation (Bridge)	723 CY
Structure Backfill (Bridge)	307 CY
Embankment Backfill	1687 CY
Bentonite Bond Breaker	6861 SF
Bar Reinforcing Steel (Bridge)	287,261 LB
Bar Reinforcing Steel (Ret Wall)	9623 LB
Structure Concrete (Ret Wall)	110 CY
Structure Concrete (Bridge)	1445 CY

LIBBY
STRUCTURAL
ENGINEERS
4452 GLACIER AVENUE
SAN DIEGO, CALIFORNIA 92120



Jack G. Raub Company
Engineering & Planning

DATE	BY	REVISION DESCRIPTION	APP'D	DATE	CHK	DATE	REV

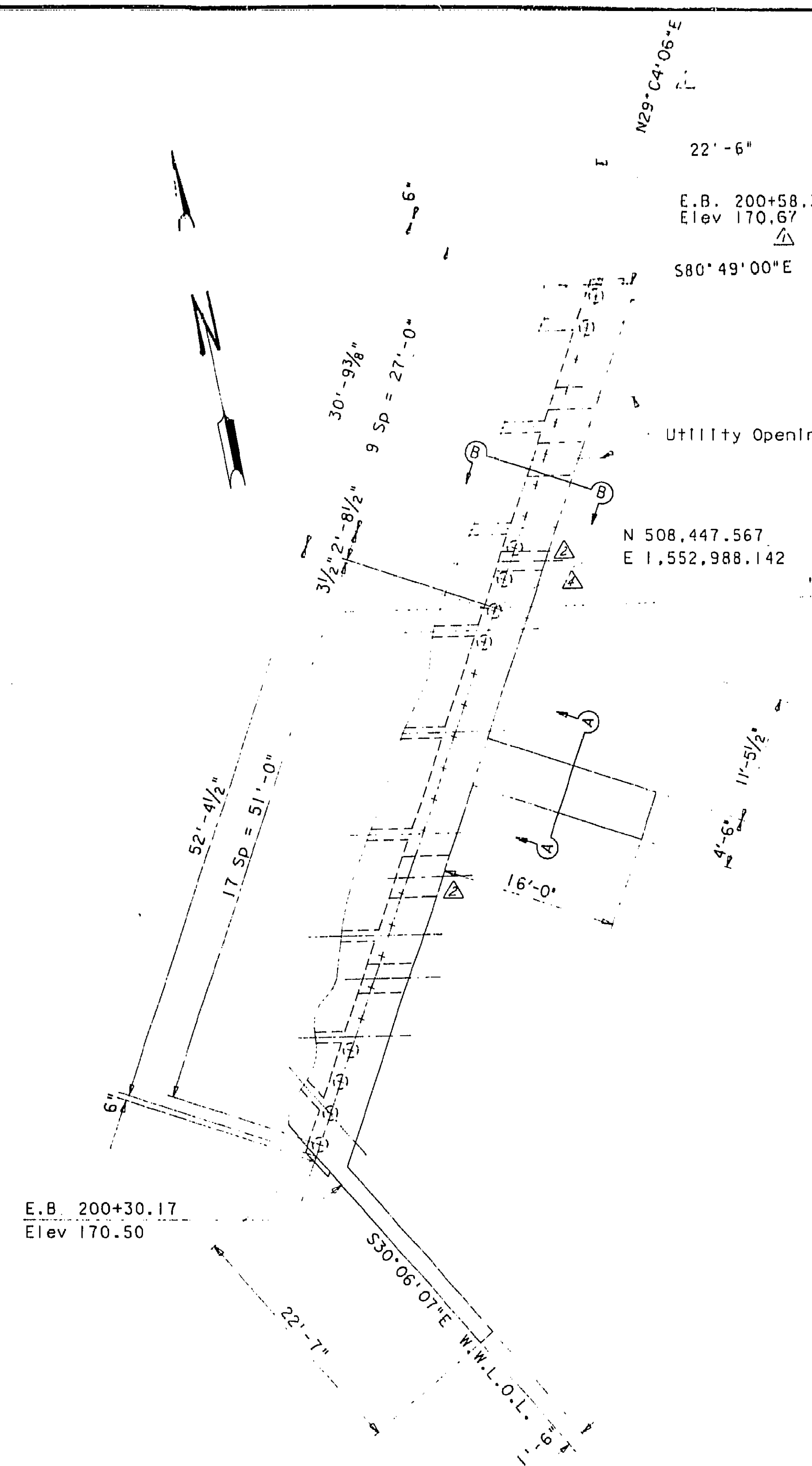
ALISO CREEK ROAD BRIDGE
SOUTH BRIDGE
GENERAL PLAN

SHEET
2
AV52 26

DR. 4 (15141)

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.

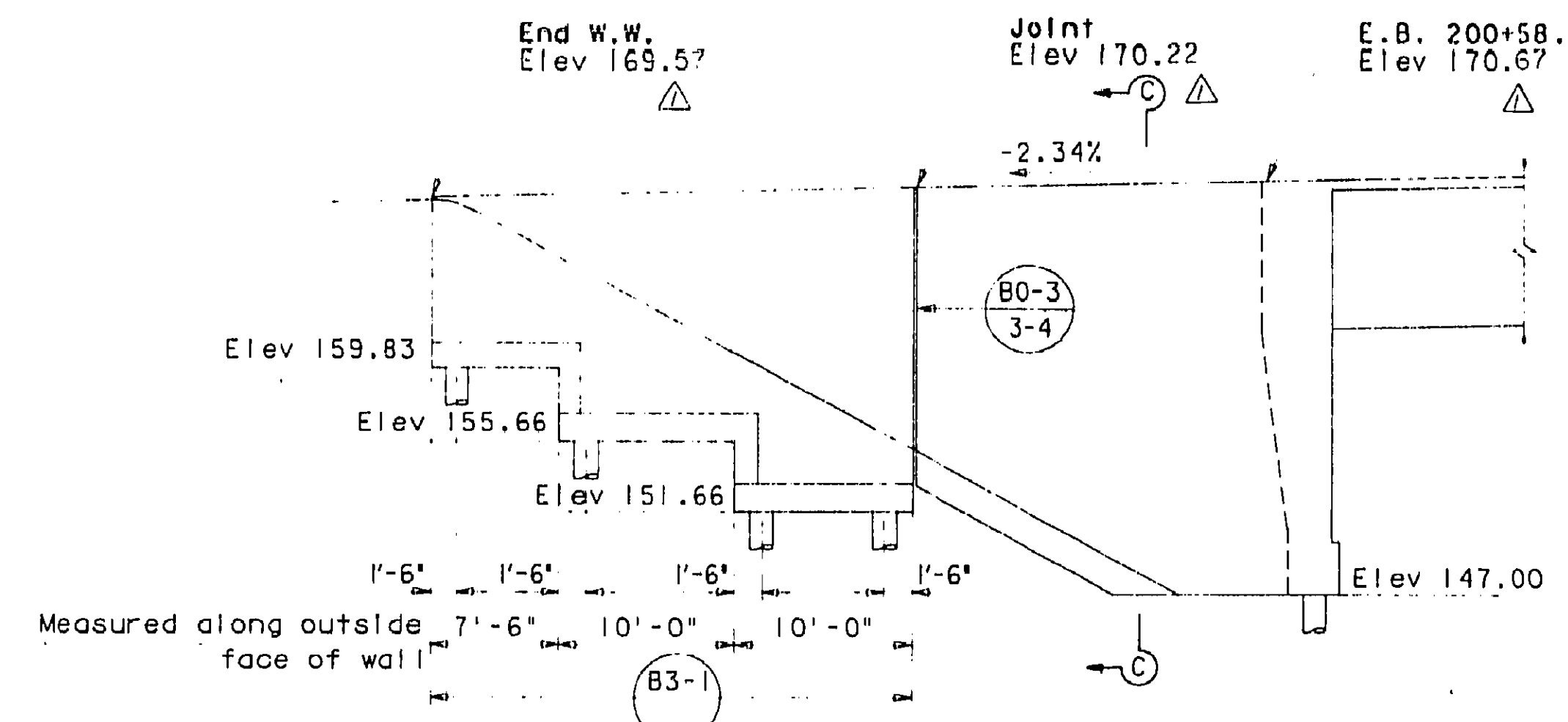
DATE 3-26-90 SIGNATURE [Signature] TITLE SUPERVISOR OF [Title]



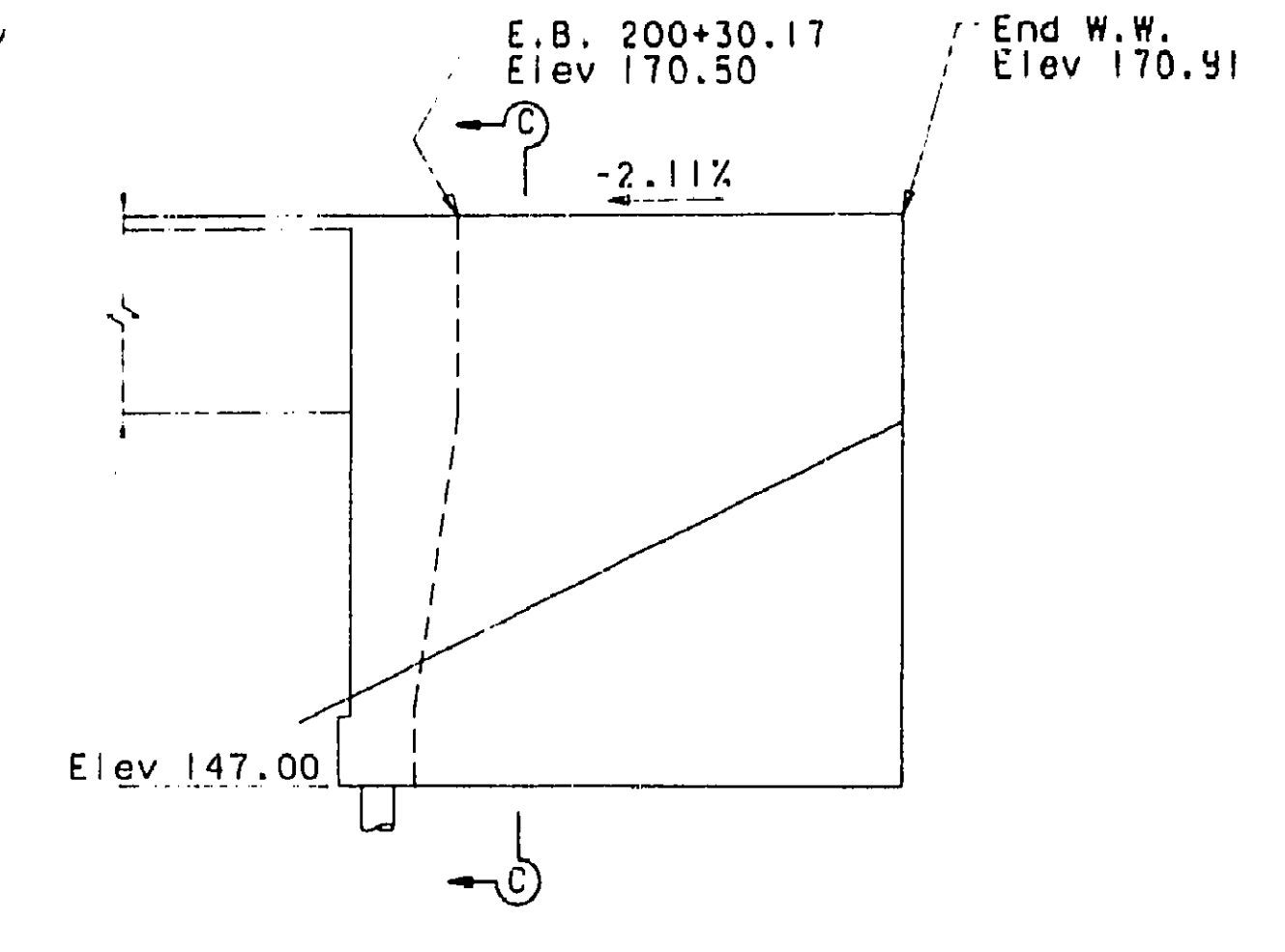
PLAN
1/8" = 1'-0"

Wall Piles Class 45
Minimum Tip Elev=115
Design Loading=45 Tons

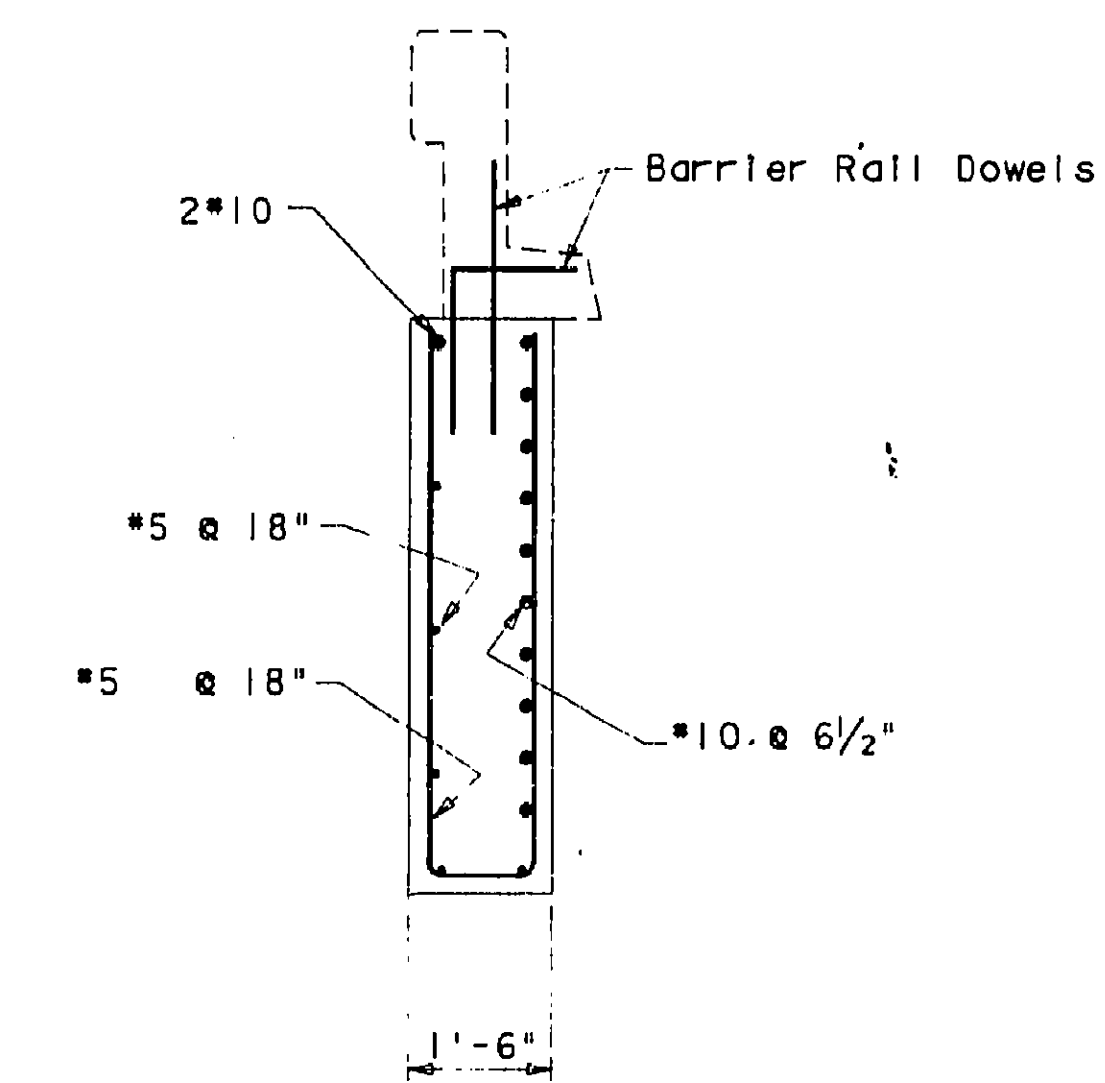
1:3 Batter Pile
Vertical Pile



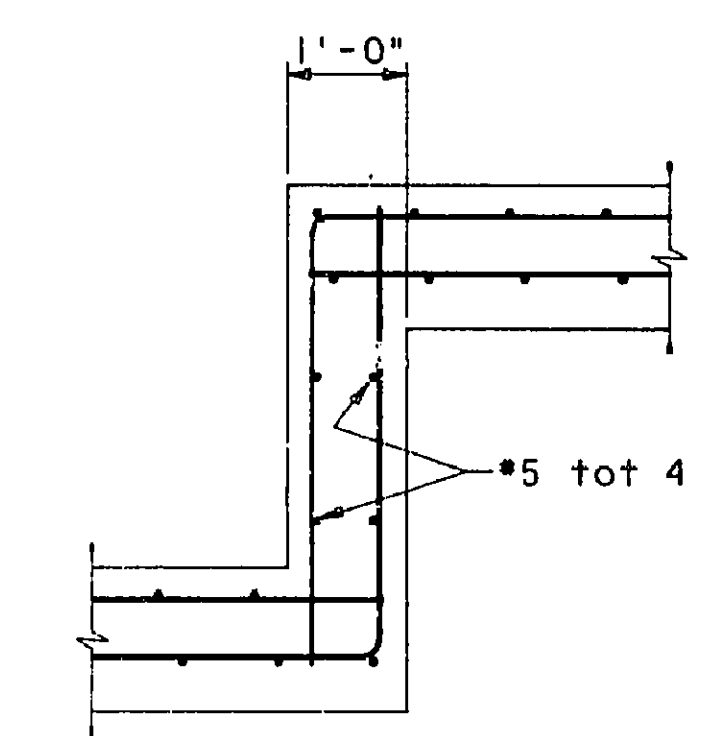
ELEVATION - NORTH W.W.
1/8" = 1'-0"



ELEVATION - SOUTH W.W.
1/8" = 1'-0"



SECTION C-C
1/2" = 1'-0"



TYPICAL FOOTING STEP
1/8" = 1'-0"

AS BUILT PLANS
Contract No. **55C-550**
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GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: AASHTO dated 1983 as supplemented by CALTRANS BRIDGE DESIGN SPECIFICATIONS Inserts.
DEAD LOAD: Includes 35 psf (3" A.C. Overlay) for future wearing surface.
LIVE LOADING: HS20-44, P-13 and alternative.
REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f'_c = 4,500$ psi @ W.W., Abut & superstructure
 $f'_c = 3,250$ @ retaining walls & barriers
Transverse deck slab (working stress design)
 $f_s = 20,000$ psi
 $f_c = 1,200$ psi
 $n = 10$
PRESTRESSED CONCRETE: see "PRESTRESSING NOTES" on "GIRDER LAYOUT" sheet.

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4452 GLACIER AVENUE
SAN DIEGO, CALIFORNIA 92120

Jack G. Raub Company
Engineering & Planning
2010 California Street, Suite 100, San Diego, CA 92101

DATE	BY	REVISION DESCRIPTION	APP'D	DATE	CHECKED	DATE	DATE
		REVISED UTILITY LOCATION					
		REVISED UTILITY CROSSING					
		REVISED ELEVATIONS					

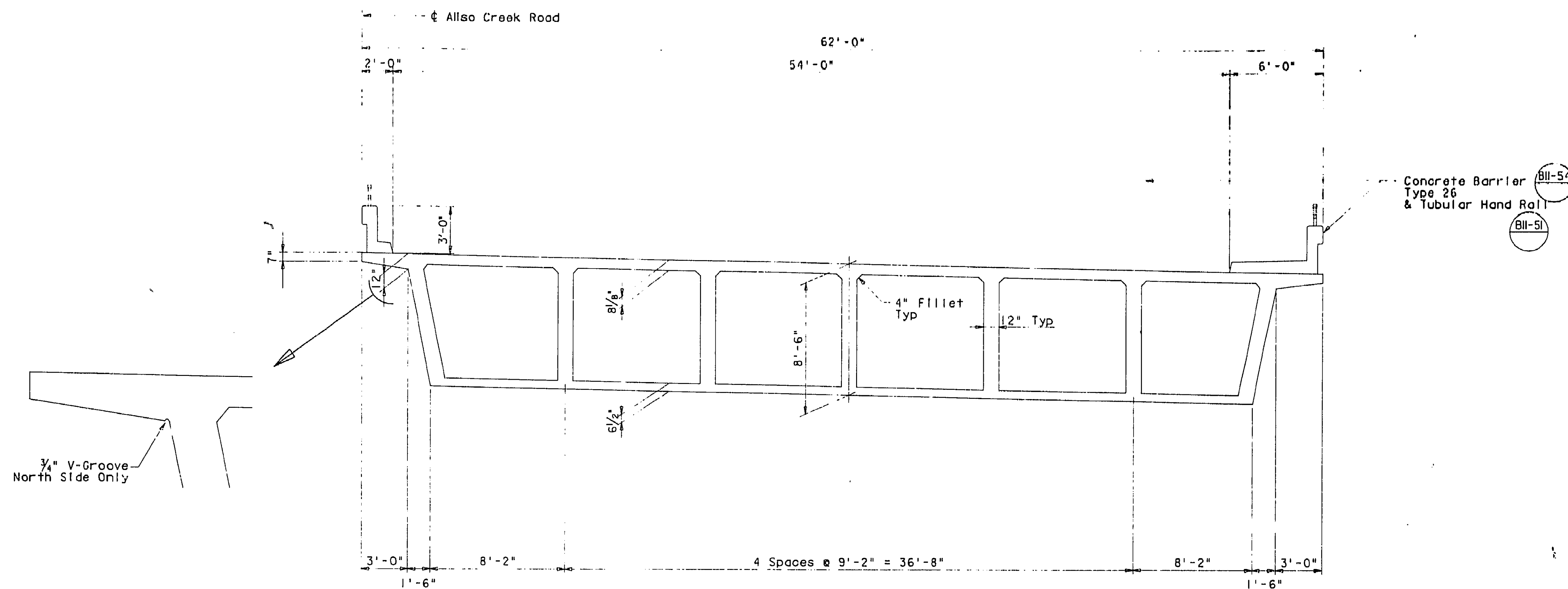
ALISO CREEK ROAD BRIDGE
SOUTH BRIDGE

ABUTMENT 2 DETAILS

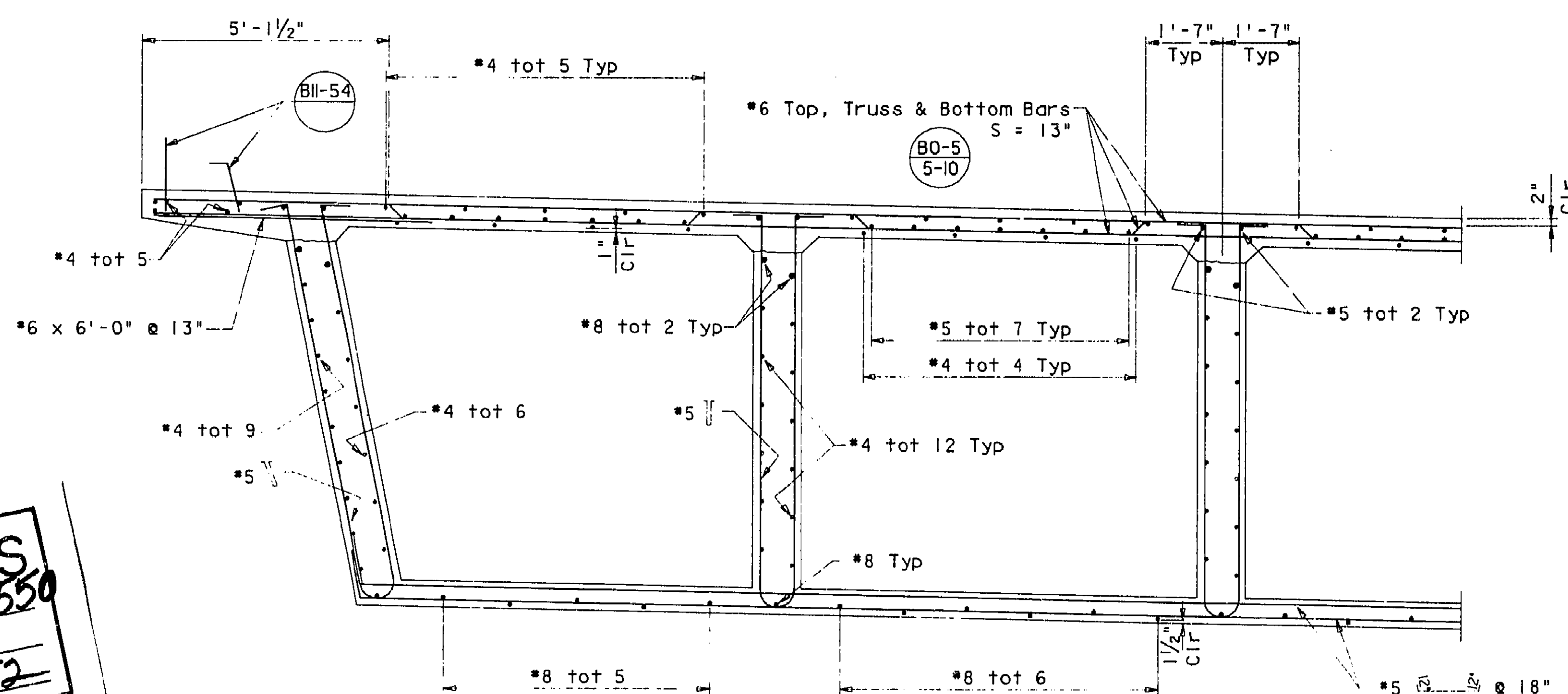
SHEET
4
AV52/26

DR 4 (15141)

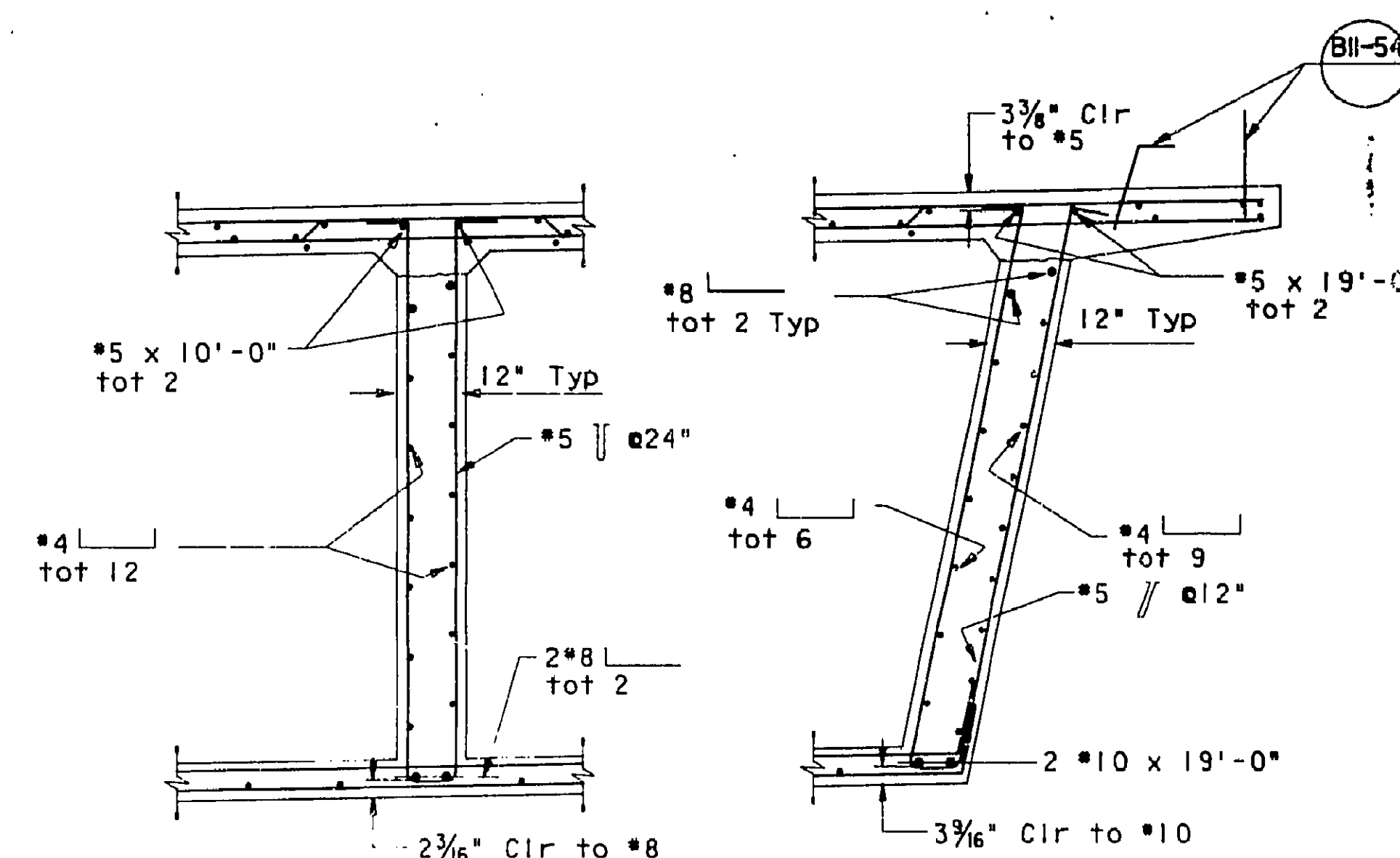
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE **3-26-90** SIGNATURE *[Signature]* TITLE **SUPERVISOR OF MICROFILM SERVICES**



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



PART SECTION
1/2"=1'-0"



SECTION E-E
1/2"=1'-0"

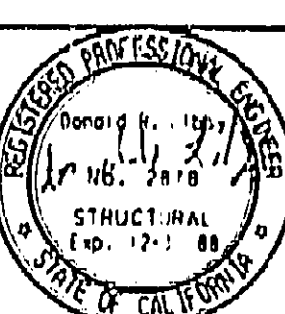
SECTION D-D
1/2"=1'-0"

Note:
Dimensions are normal to ϕ Alliso Creek Road.
Transverse slab steel shall be placed parallel to the abutments.

55C-550

AS BUILT PLANS
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DATE	BY	REVISION DESCRIPTION	APP'D	DATE	DES	DRL	CHK	RVA

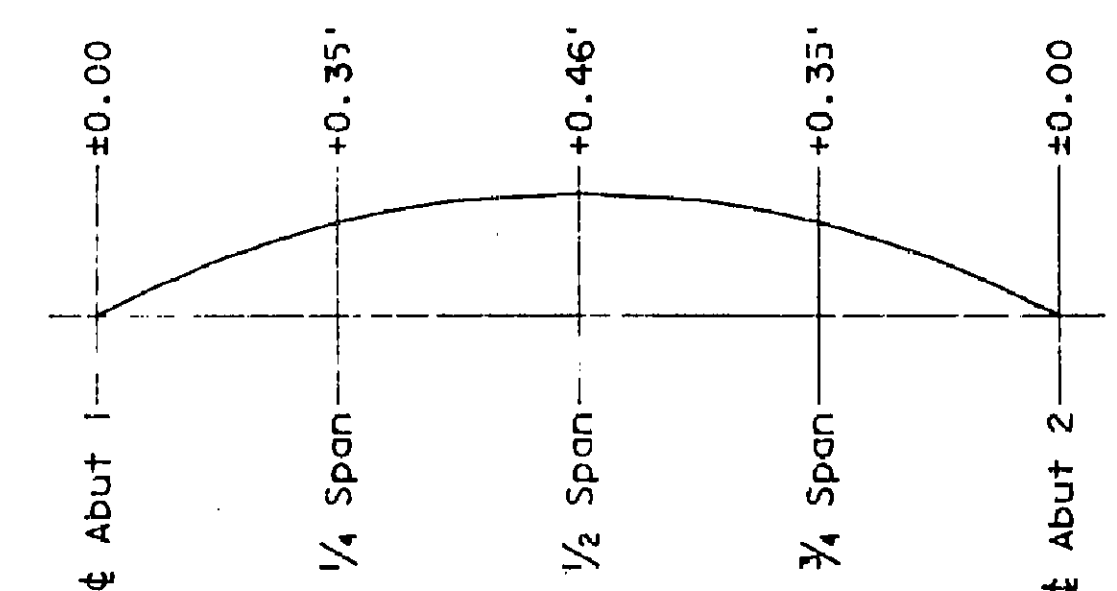
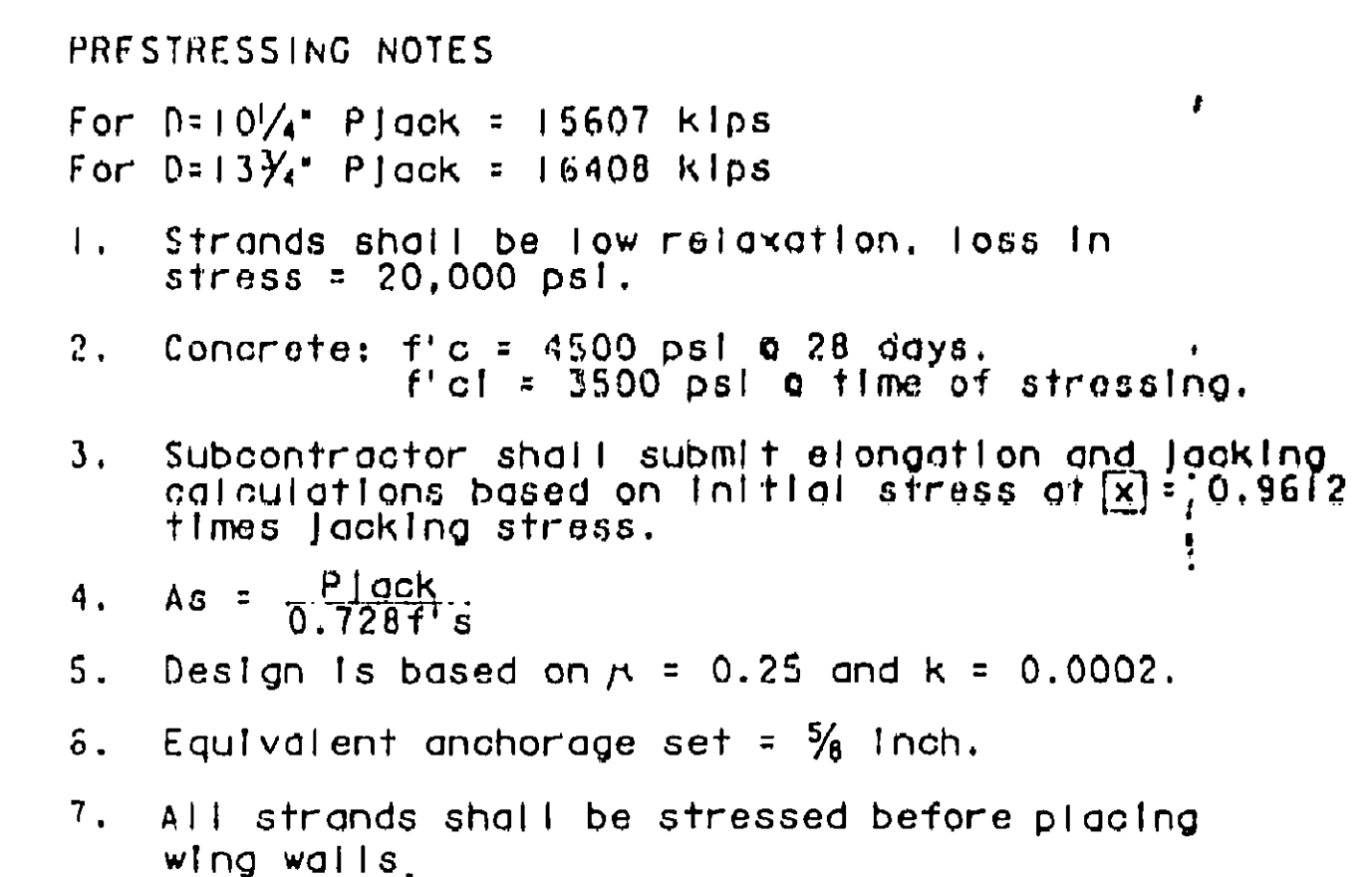
ALISO CREEK ROAD BRIDGE
SOUTH BRIDGE

TYPICAL SECTION

SHEET
5
AVS2/26

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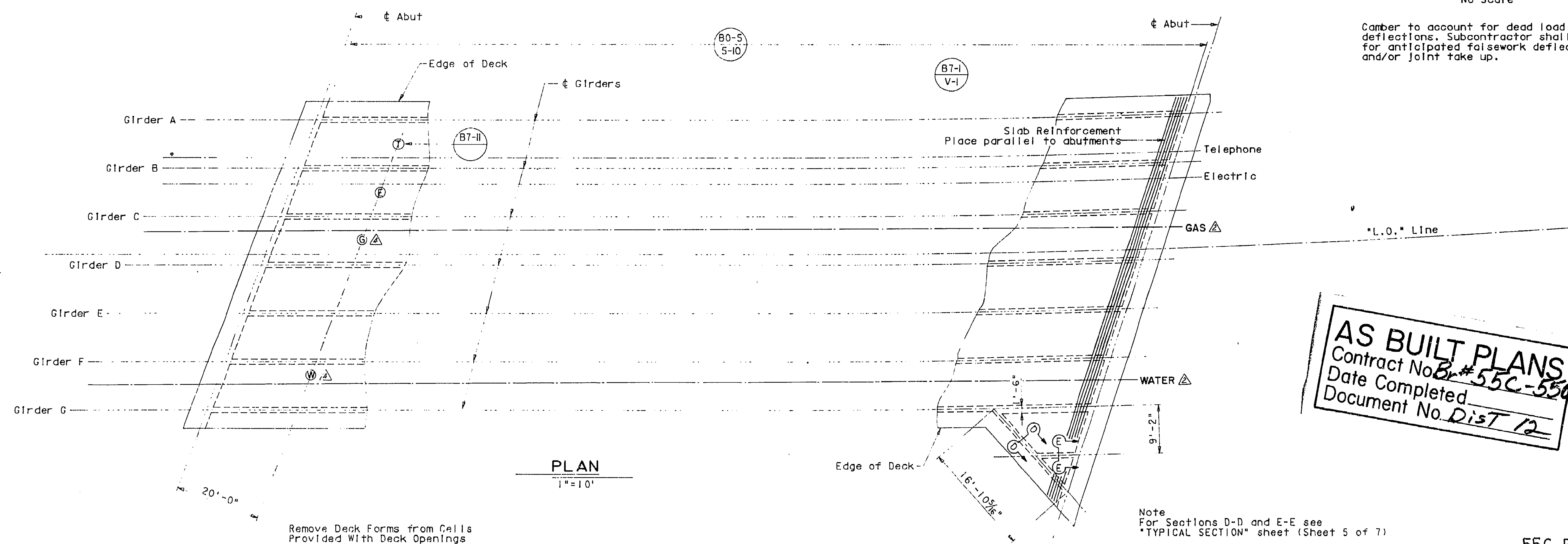
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CAMBER DIAGRAM

No Scale

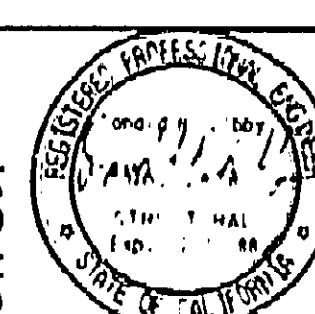
Camber to account for dead load and prestress deflections. Subcontractor shall adjust as required for anticipated falsework deflections, settlement and/or joint take up.



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55C-550

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Jack C. Raub Company
Engineering & Planning
2412 Christie Drive, Watsonville, California 95076 (415)855-4968

[illegible]

ALISO CREEK ROAD BRIDGE
SOUTH BRIDGE

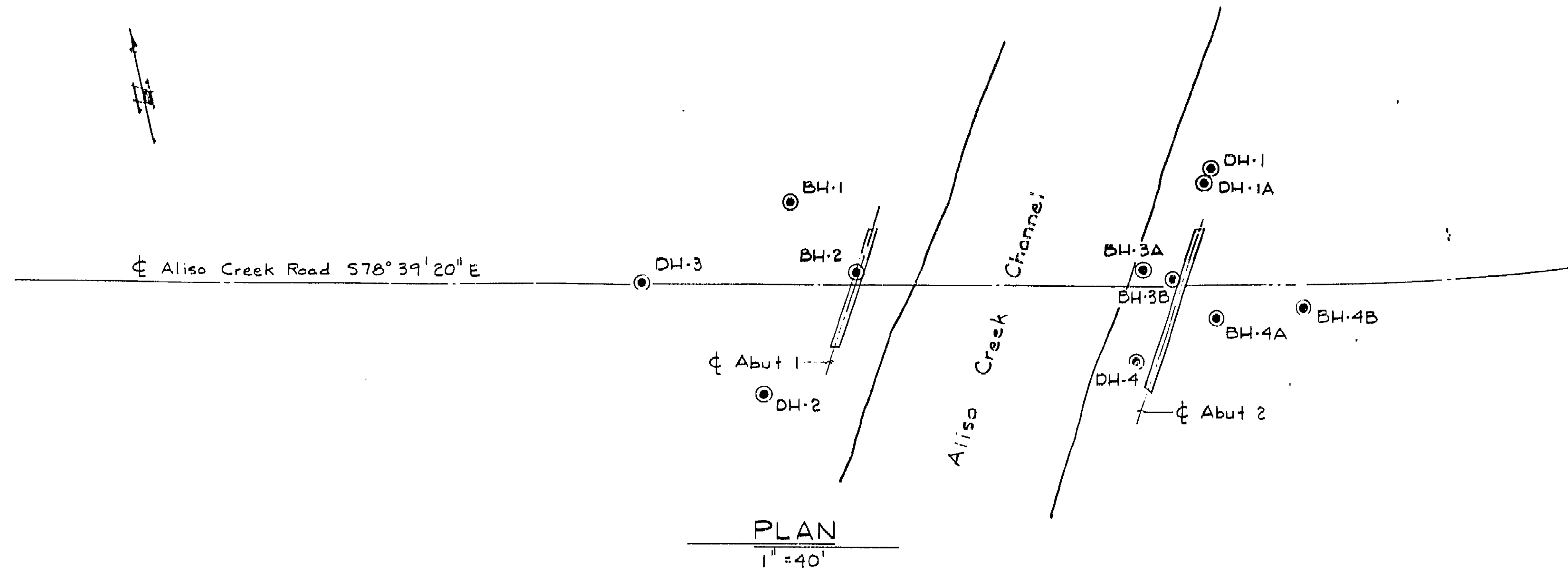
GIRDER LAYOUT

SHEET
6
of 8
AV52/26

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DATE 3-26-90	SIGNATURE Donald Blackford	TITLE SUPERVISOR OF MICROFILM SERVICES
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DH-1 ELEV. = 157' ±	DH-1A ELEV. = 158' ±	DH-2 ELEV. = 156' ±	DH-3 ELEV. = 160' ±	DH-4 ELEV. = 156' ±	BH-1 ELEV. = 157.5' ±	BH-2 ELEV. = 156' ±	BH-3A ELEV. = 154.5' ±	BH-3B ELEV. = 154.5' ±	BH-4A ELEV. = 165.5' ±	BH-4B ELEV. = 165.5' ±
Log of Boring DH-1	Log of Boring DH-1A	Log of Boring DH-2	Log of Boring DH-3	Log of Boring DH-4	Log of Boring BH-1	Log of Boring BH-2	Log of Boring BH-3A	Log of Boring BH-3B	Log of Boring BH-4A	Log of Boring BH-4B

AS BUILT PLANS
Contract No. 55C-550
Date Completed
Document No. DIST 12

Very
Poor
COPY

55C-550

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Jack C. Raub Company
Engineering & Planning
2040 Divisadero Drive, Suite 100, San Francisco, CA 94115-5011

ALISO CREEK ROAD BRIDGE
SOUTH BRIDGE

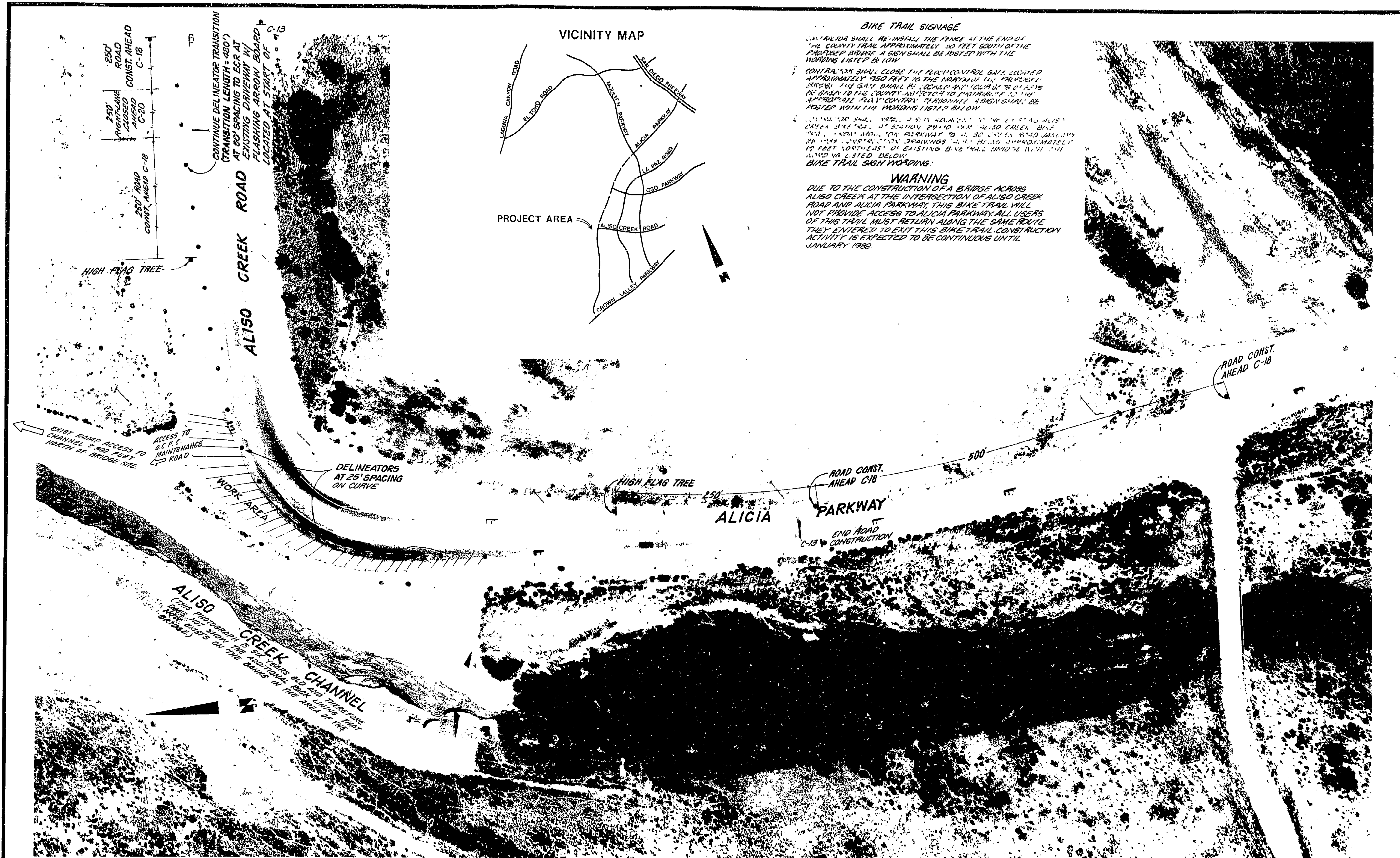
LOG OF BORINGS

DR. 4 (15/41)

28X

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DATE 3-26-90 SIGNATURE Donald Bradford TITLE SUPERVISOR OF MICROFILM SERVICES



55C-550

Jack G. Raub Company
Engineers & Planners

WORKMAN DATE BY REVISION DESCRIPTION	APP'D. DATE DES. L.C. CNO. TO DATE 12-2-90	PLAN SCALE 1" = 50' DETOUR PLAN FOR ALISO CREEK ROAD BRIDGE	SHEET 8 OF 8
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AS BUILT PLANS
 Contract No. 55C-550
 Date Completed
 Document No. DIST 12

28X

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 DATE 3-26-90
 SIGNED [Signature]
 SUPERVISOR OF MICROFILM SERVICES

DR. 4 (15141)