
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 : 55C0404
Facility Carried: DALE ST
Location : 0.1 MI N/O CHAPMAN AVE
City :
Inspection Date : 24-JUL-01
Inspection Type
Routine Group A Underwater Special Other
X

Bridge Inspection Report

Name : ANAHEIM-BARBER CITY CHA

CONSTRUCTION INFORMATION

Year Built : 1959
Year Widened : N/A
Length (m) : 10.1

Skew (degrees): 38
No. of Joints : 0
No. of Hinges : 0

Description of Structure : Double 3.7 m W x 3.0 m H x 27.4 m L RC box culvert (grade top) beneath 0.3 m of earth fill.

Span Configuration : (S) 2 @ 3.7 m (N) clear, normal

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

Calculation Method : LOAD FACTOR

Calculation Method : LOAD FACTOR

Type 3S2 N/A english tons Type 3-3 N/A english tons

DESCRIPTION ON STRUCTURE

Bridge width : (W) 0.2 m cu, 2.5 m sw, 14.9 m, 0.2 m cu, 2.0 m ea, 1.2 m sw, 0.2 m cu (E)

Total Width : 21.6 m

Net Width : 14.90 m

Rail Description : None

No. of Lanes : 2

Min. Vertical Clearance : Unimpaired

Rail Code : 0000

DESCRIPTION UNDER STRUCTURE

Channel Description : RC trapezoidal upstream and downstream.

CONDITION OF STRUCTURE

There is medium cracking in top of middle wall where the 0.60 m cemented pipe sits. (0)

Otherwise, the structure is in good condition.

MISCELLANEOUS

Vehicular access into the channel is from the southwest quadrant of MacDuff Street and from the southwest quadrant of Lampson Avenue.

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	241	Reinforced Concrete Culvert	2	27m.	27	0	0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0404

Location: 0.1 MI N/O CHAPMAN AVE

Inspection Date: 24-JUL-01

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer



CC : TMRut
Orange County

Bridge No.: 55C0404

Location: 0.1 MI N/O CHAPMAN AVE

Inspection Date: 24-JUL-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0404
 (5) INVENTORY ROUTE (ON/UNDER) - ON 1 40 0M073N
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - ANAHEIM-BARBER CITY CHA
 (7) FACILITY CARRIED - DALE ST
 (9) LOCATION - 0.1 MI N/O CHAPMAN AVE
 (11) MILEPOINT/KILOMETERPOINT 0
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 47 MIN 24 SEC
 (17) LONGITUDE 117 DEG 59 MIN 02 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

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

(43) STRUCTURE TYPE MAIN: MATERIAL - CONCRETE
 TYPE - CULVERT CODE 1 19
 (44) STRUCTURE TYPE APPR: MATERIAL -
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 2
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE NOT APPLICABLE CODE N
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) TYPE OF WEARING SURFACE - NOT APPLICABLE CODE N
 B) TYPE OF MEMBRANE - NOT APPLICABLE CODE N
 C) TYPE OF DECK PROTECTION - NOT APPLICABLE CODE N

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

(27) YEAR BUILT 1959
 (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 10000
 (30) YEAR OF ADT 1999 (109) TRUCK ADT 1%
 (19) BYPASS, DETOUR LENGTH 2 KM

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

(48) LENGTH OF MAXIMUM SPAN 3.7 M
 (49) STRUCTURE LENGTH 10.1 M
 (50) CURB OR SIDEWALK: LEFT 2.5 M RIGHT 1.2 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 14.9 M
 (52) DECK WIDTH OUT TO OUT 21.6 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 15.2 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 38 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 14.9 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 = 96.1 *****

STATUS =

HEALTH INDEX = 100

***** 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 N
 (59) SUPERSTRUCTURE N
 (60) SUBSTRUCTURE N
 (61) CHANNEL & CHANNEL PROTECTION 9
 (62) CULVERTS 8

***** 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 8
 (68) DECK GEOMETRY 9
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 9
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (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 20000
 (115) YEAR OF FUTURE ADT 2019

***** INSPECTIONS *****

(90) INSPECTION DATE 07/01 (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)

Bridge Number 55C-404

TYPE OF INVESTIGATION/REPORT

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

Location 12 - Ora - FAU M073-CR
Dist.-Co.-Rte.-City

Date of Investigation July 20, 1995

Name ANAHEIM-BARBER CITY CHANNEL (Dale Street, 0.1 mile north of Chapman Avenue)

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 A1 is appropriate.

CONDITION OF STRUCTURE:

There is medium cracking in top of middle wall where the 0.60 m cemented pipe sits.

Condition of structure is good.

WORK RECOMMENDED:

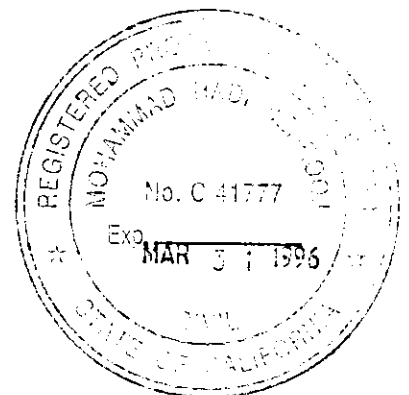
Seal crack of middle wall.

ENCROACHMENT:

One 0.60 m diameter cement coated pipe and one 0.1 m diameter welded steel pipe supported outside of west exterior.

One 0.45 m diameter cement coated pipe supported outside of east exterior.

By M. Hadi Behrooj ^{MMB}
G. P. Balinghasay



GPB:ms
cc: CDHarris
Orange County
WLindsey

PONTIS DATA FORM - PIA

BRIDGE NUMBER	FRAME	INSPECTION DATE
5 5 C 0 4 0 4	0 1	0 7 2 0 9 5
1 8	9	11 16

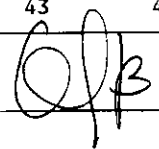
INFORMATION ONLY - NOT FOR UPDATE

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

DISTRICT	12
COUNTY	ORA
ROUTE	
POSTMILE	
NAME	

D E L	ELE #	ELEMENT DESCRIPTION	E N V	TOTAL QUANTITY	UNITS	QUANT				
						CONDITION STATE 1	CONDITION STATE 2	CONDITION STATE 3	CONDITION STATE 4	CONDITION STATE 5
18	7 4	CONCRETE CULVERT	2	5 5	M	5 4	1			
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08/02/95

BY: 

Bridge No. 55C-404

Name ANAHEIM-BARBER CITY CHANNEL (Dale Street, 0.1 mile north of Chapman Avenue) Location 12-Ora-FAU M073-CR Dist.-Co.-Rte.-City

SUMMARY OF ENCROACHMENTS

Permit No. and Permittee	Date	Description & Location on Bridge
	Prior to 7-20-95	One 0.60 m diameter cement coated pipe and one 0.1 m diameter welded steel pipe supported outside of west exterior. One 0.45 m diameter cement coated pipe supported outside of east exterior.

HBD M 30

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 8/92)

Bridge Number 55C-404

Location 12 - Ora - FAU M073-CR
Dist.-Co.-Rte.-City

Date of Investigation April 14, 1993

TYPE OF INVESTIGATION/REPORT

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

Name ANAHEIM-BARBER CITY CHANNEL (Dale Street, 0.1 mile north of Chapman Avenue)

CONDITION RATINGS:

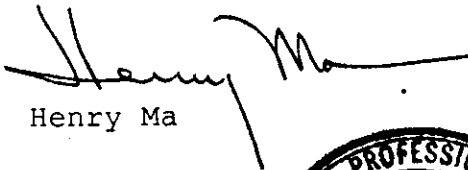
Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

9

CONDITION OF STRUCTURE:

Condition of the structure is good.


Henry Ma

HM:cd

cc: INagai (2)
County of Orange



(ATTACHMENT A)

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]

H. MA

BY:

S.M.

BRIDGE REPORT

14V51

Bridge No. 55C - 404

DS-M58 (REV. 1/91)

Location 12 - Ora - FAU M073-CR
Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 26, 1991

ANAHEIM-BARBER CITY CHANNEL
Name (Dale Street, 0.1 mile north of Chapman Avenue)

Lat. 33° - 47.4'N Long. 117° - 59.0'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1959 By County of Orange Contract No. Unknown

Designed by: County Plans Avail. @ County

Description: Double 12' x 10' x 90'± long RC box culvert (grade top culvert) on spread footing under 1'± of fill and AC surfacing.

Spans (S) 2 @ 12' clear, normal (N)

Length 33' NBIS Bridge Length Yes Skew 38° Left

Number Of Intermediate Joints: @Hinges None @Bents None

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

Design Live Load H20-S16-44 Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (W) 0.8'cu, 8.3'sw, 49', 0.7'cu, 6.5'ea, 4'sw, 0.8'ea, 0.8'cu (E)

Total Width 71' Net Width 49' Lanes 2 Tracks None

Median None Rail Type Chain link fence 0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 50'

Deck Type N Wearing Surface/Prot. Sys. NNN

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None

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

Lanes Tracks

Facilities Crossed Anaheim Barber City Channel (C03)

April 26, 1991

DESCRIPTION - HYDRAULICS

Channel RC trapezoidal

Navigable: Yes ☐ No ☒ Clearances: Vert. Horiz.Pier/Abutment Protection (For Navigation) ☐

TRAFFIC INFORMATION

	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	11,000	1989	N	
Average Daily Traffic (Future) :	12,000 Est	2010	N	
Average Daily Trucks (% OF ADT) :	1% Est		N	
Bypass Detour Length	1 mile		N	
Shell Route:	No		No	
Functional Classification :	16		N	
LOAD RATINGS:	Inventory HS 20	Operating HS 33		
	Permit PPPPP	Computation Method Assigned		

CONDITION RATINGS:

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

APPRAISAL RATINGS:

Waterway Adequacy	9	Approach Roadway Alignment	8
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Date of Revisions

CONDITION OF STRUCTURE:

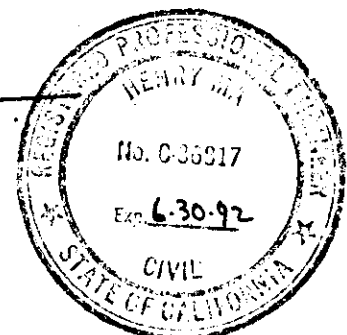
Condition of the structure is good.

ENCROACHMENT:

24" cement coated pipe and 4" welded steel pipe supported outside of west exterior.

18" cement coated pipe supported outside of east exterior.

Henry Ma



HM:ms

cc: INagai (2)
County of Orange

Bridge No. 55C-404
Location 12-Ora-FAU M073 - CR
Dist. Co. Rte. City
Date of Investigation 4-17-89

Name ANAHEIM-BARBER CITY CHANNEL (Dale Street, 0.5 mile North of Chapman Avenue)

CONDITION RATING:

Deck N Superstructure 8 Substr.&Pipes 8
Channel & Channel Protection 8 Culvert N Widenable? Yes

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE
CATEGORY A OTHER
UNDERWATER OFFICE

CONDITION OF STRUCTURE:

Condition of the structure is good.

REVISION:

Location: 12-Ora-FAU M073-CR
ADT: 11,000 (1988)

WORK RECOMMENDED:

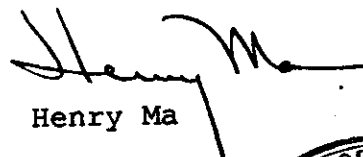
None.

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

RC box culvert on spread footing.


Henry Ma

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



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-OS M19 (REV. 1/74)

Bridge No. 55C-404
Location 7-Ora-FAU M073-CR
Dist - Co - Rte - PM - City
Date of Investigation April 28, 1987

Name ANAHEIM-BARBER CITY CHANNEL (Dale St., 0.5 mile N. of Chapman Ave.)

CONDITION RATING:

APPRAISAL RATING:

Deck N Superstructure 8 Substr. & Pipes 8 Overall 8

Channel & Channel Protection 8 Retaining Walls N

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required By County Yes ☐ No ☒

PRIORITY

A - Immediate Action
B - Early Scheduling
C - Routine Maint.
O - For Record Only

CONDITION OF STRUCTURE:

Overall condition of the structure is good.

RECOMMENDED POSTING:

None

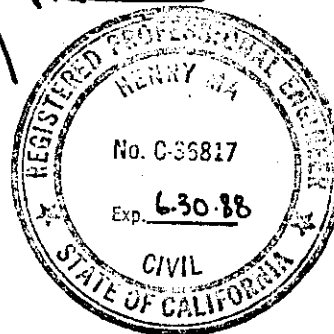
WORK RECOMMENDED:

None

HM:pht

cc: INagai (2)
Orange County (2)

Henry Ma



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-05 M19 (REV. 1/74)

Bridge No. 55C-404
Location 7-Or-FAU M073-CR
Dist - Co - Rte - Mile - City (On Deck)
Date of Investigation January 2, 1986

Name ANAHEIM-BARBER CITY CHANNEL (Dale Street, 0.5 mile N. of Chapman Ave.)

CONDITION RATING:

APPRAISAL RATING:

Deck N Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 8 Retaining Walls 8

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by County Yes ☐ No ☒

PRIORITY

A - Immediate Action
B - Early Scheduling
C - Routine Maint.
O - For Record Only

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

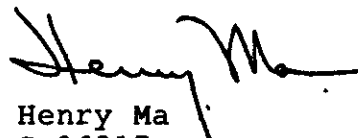
RECOMMENDED POSTING:

None

WORK RECOMMENDED:

None

HM:pdh
cc: INagai (2)
Orange County (2)


Henry Ma
C-36817

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH.QS M19 (REV. 1/74)

Bridge No. 55C-404
Location 7-Ora-FAU M073-CR
Dist - Co - Rte - PM - City (On Deck)
Date of Investigation September 13, 1983

Name ANAHEIM-BARBER CITY CHANNEL) Dale Street, 0.5 mile N. of Chapman Ave.)

CONDITION RATING:

APPRAISAL RATING:

Deck N Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 8 Retaining Walls 8

Widenable? Yes ☐ No ☒ Conditional ☐
County
Action Required by DMHIX Yes ☐ No ☒

PRIORITY
A - Immediate Action
B - Early Scheduling
C - Routine Maint.
O - For Record Only

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

None

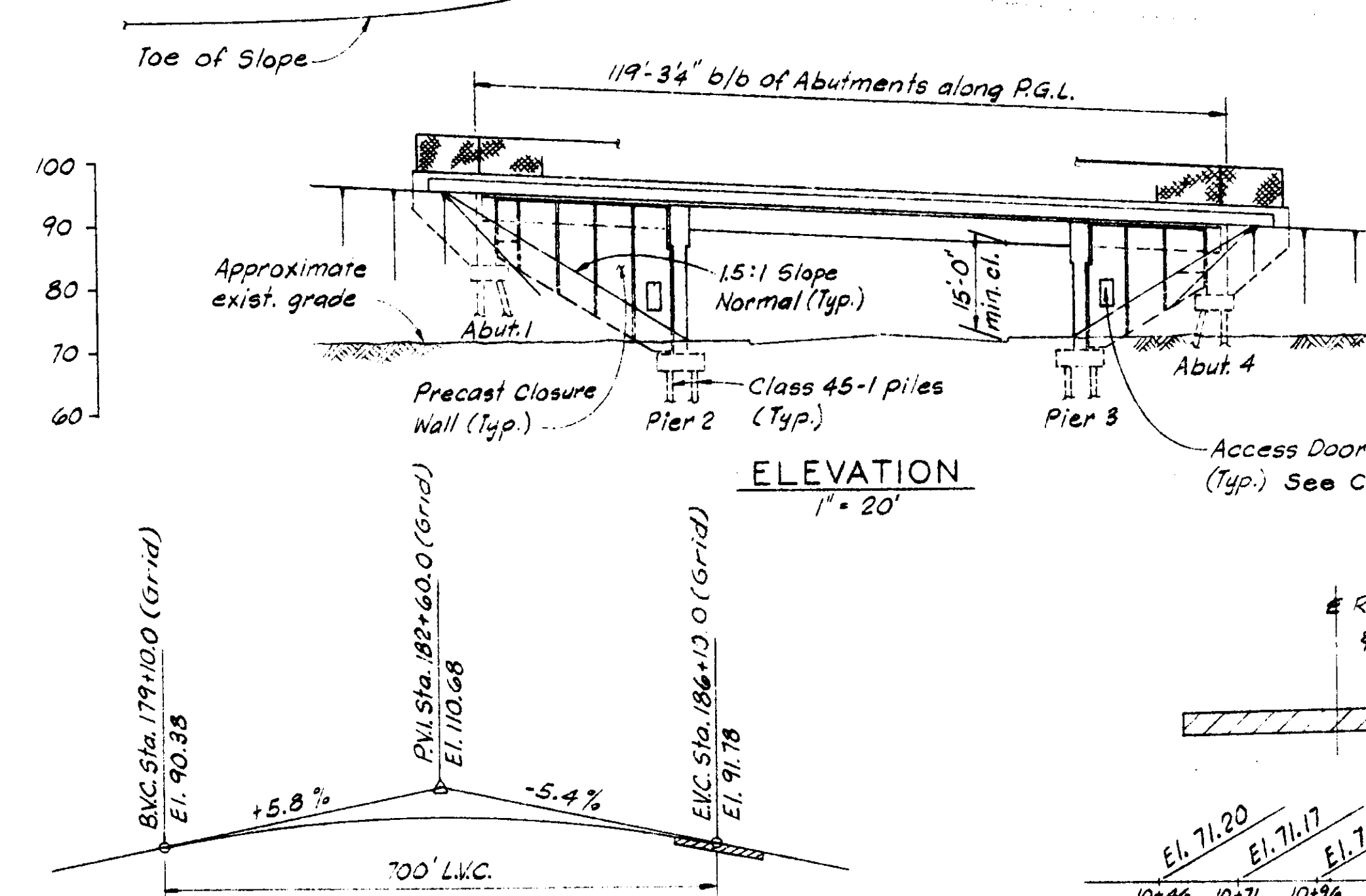
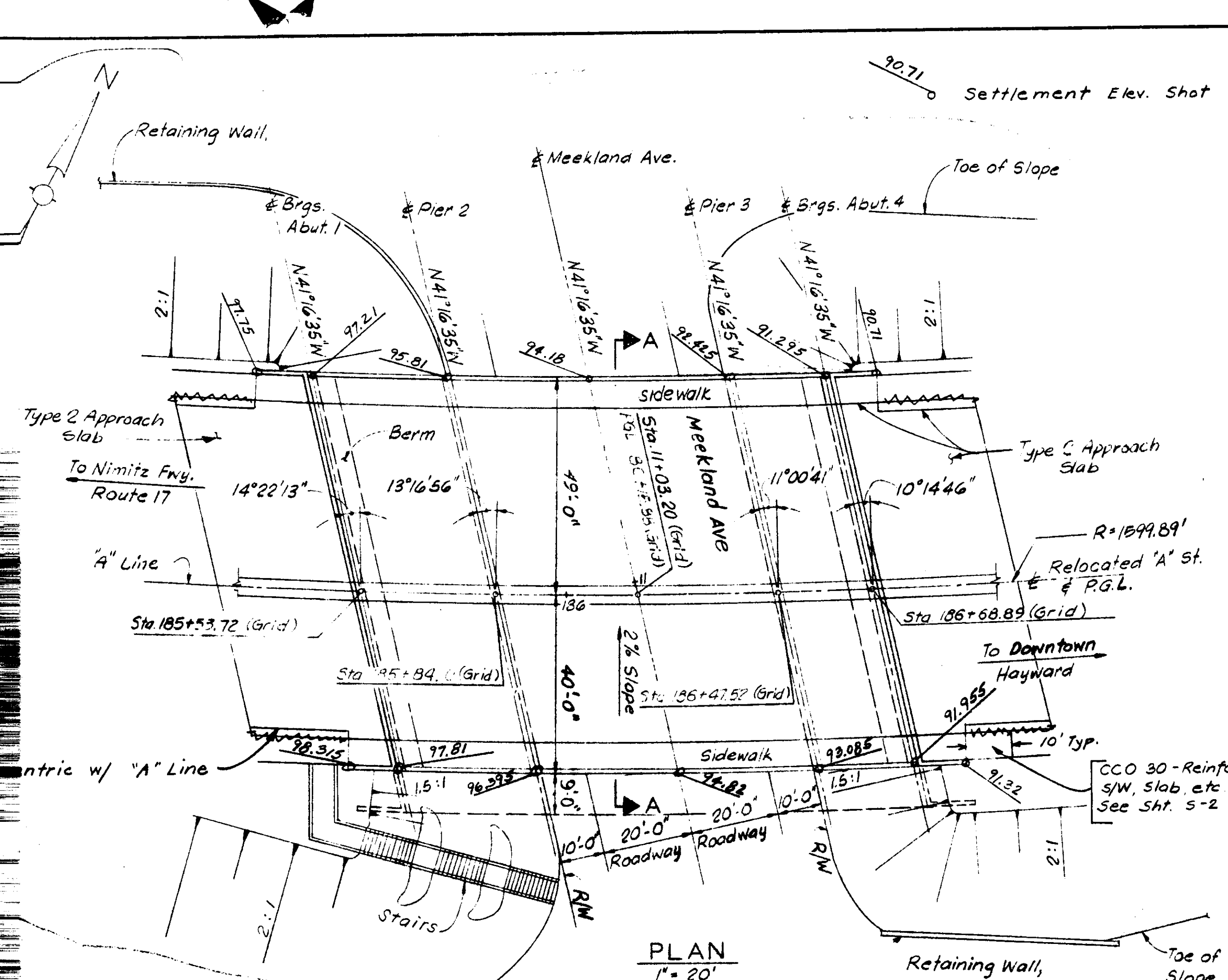
RECOMMENDATION:

None

E. L. Neff

E. L. Neff
C-28703

ELN:pdh
cc: DRHiggins (2)
Orange County (2)



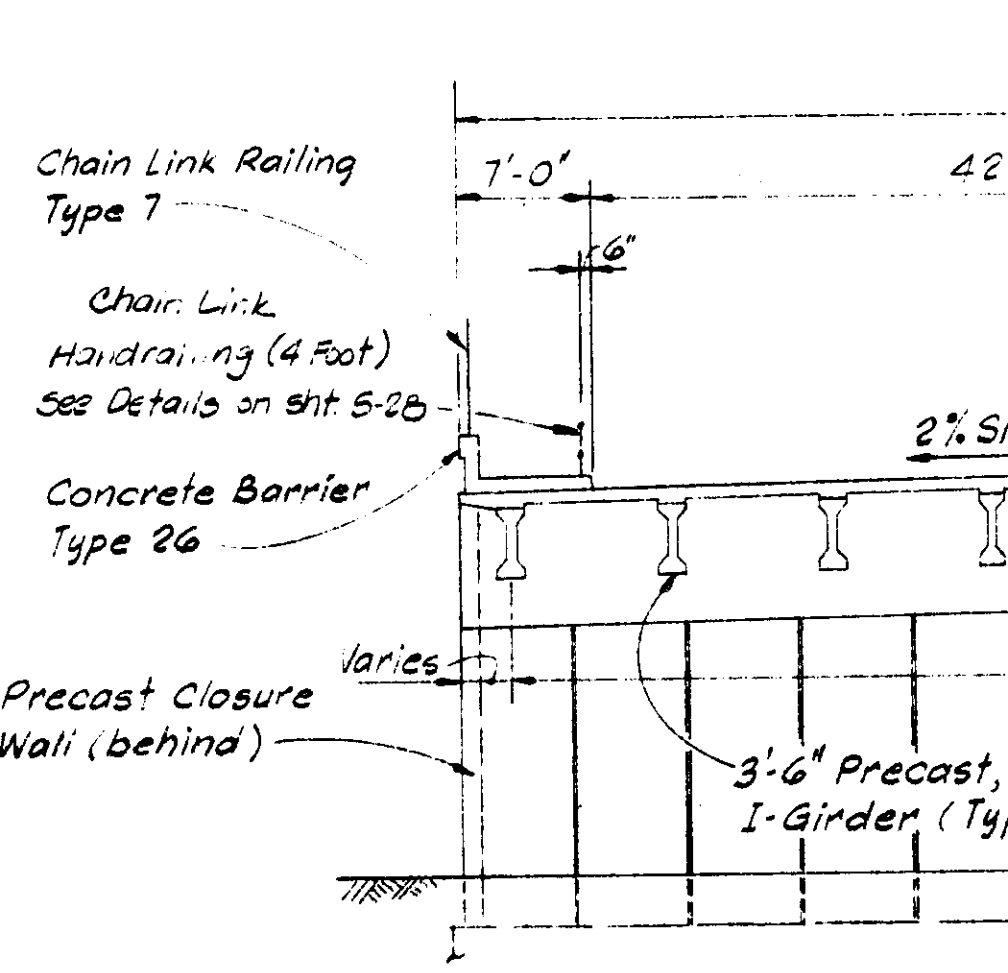
PROFILE GRADE
RELOCATED 'A' STREET
No Scale

Note:
Distances shown are grid distances.
To obtain ground distance multiply grid
distance by 1.00007.

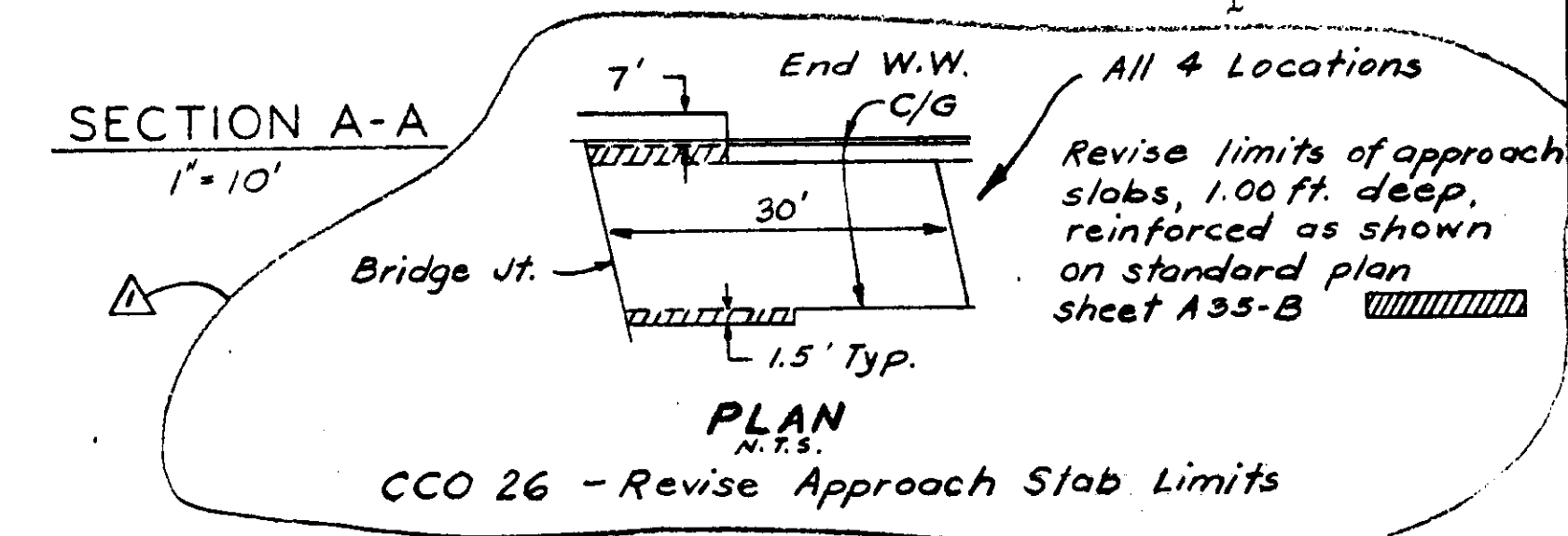
PROFILE GRADE
MEEKLAND AVENUE
No Scale

STRUCTURE LAYOUT DIAGRAM
No Scale

- LIST OF DRAWINGS
- S-17 GENERAL PLAN & ELEVATION
 - S-18 LOG OF TEST BORINGS
 - S-18A PILE DRIVING LOGS
 - S-19 FOOTING LOCATION PLAN AND MISCELLANEOUS
 - S-20 ABUTMENT 1
 - S-21 ABUTMENT 4
 - S-22 ABUTMENT DETAILS
 - S-23 PIER 2
 - S-24 PIER 3
 - S-25 PIER DETAILS
 - S-26 PRESTRESSED I-GIRDER
 - S-27 DECK DETAILS
 - S-27A GIRDER ERECTION PLAN
 - S-28 DECK DETAILS



SECTION A-A
1" = 10'



GENERAL NOTES

DESIGN SPECIFICATIONS: American Association of State Highway and Transportation Officials Standard Specifications for Highway Bridges, 12th Edition, dated 1977; State of California Division of Highways, Bridge Planning & Design Manual.

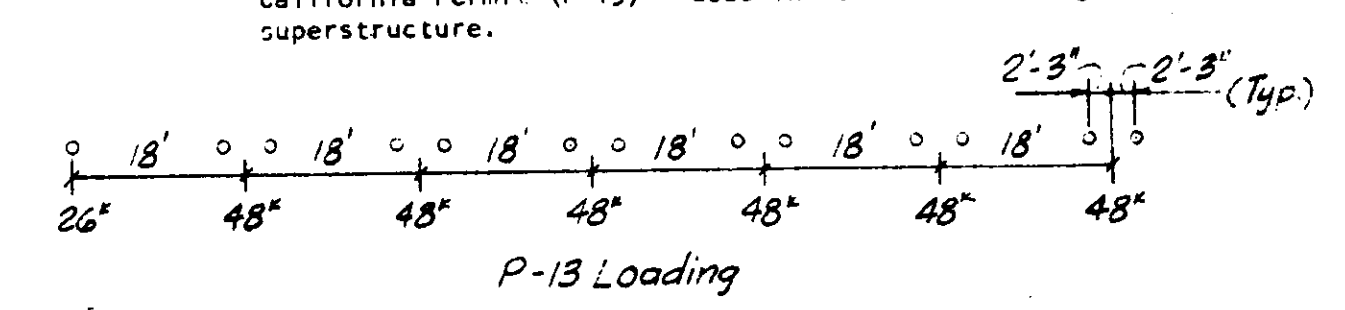
CONSTRUCTION SPECIFICATIONS: Standard Specifications, State of California, Department of Transportation, dated January 1978, and the Special Provisions.

STANDARD PLANS: Plans supplemented by Standard Plans, State of California, Department of Transportation, dated March 1977.

DESIGN LOADING:

Dead Load: Includes 35 psf allowance for future wearing surface
Live Load: AASHTO HS20-44

California Permit (P-13) - used in load factor design of superstructure.



CONCRETE: Reinforced Concrete:

$f'_c = 3250$ psi ultimate compressive strength at 28 days

$f_c = 1300$ psi

$n = 10$

Prestressed Concrete:

See notes on Sheet No. S-26

REINFORCEMENT: Prestressing Steel - See Specifications

Reinforcing bars shall be ASTM A615 deformed billet steel bars, Grade 60, $f_y \min = 60,000$ psi, $f_s = 24,000$ psi except $f_s = 20,000$ psi for transverse reinforcement. Bars to be bent according to the Manual of Standard Practice, ACI. Splices - minimum lap of 45 dia. for #8 bars and smaller, and a minimum lap of 60 dia. for #9, #10, and #11 bars. Concrete coverage to reinforcing steel = 2 inches unless noted otherwise on the plans.

CONSTRUCTION JOINTS: No construction joints shall be used except by permission of the Engineer or as shown on the plans.

FOUNDATIONS:

Piers - CalTrans Standard Class 45-1 piles (45 ton capacity)
Abutments - CalTrans Standard Class 45-1 piles (45 ton capacity)

DATUM: See Civil Drawings

LIST OF STANDARD PLANS: State of California, Business and Transportation Agency, Department of Transportation, Standard Plans - March 1977 Edition.

A62 - 88	B0 - 13	B6 - 21	A62-8A	B11-7
B0 - 3	B1 - 11	B11 - 52	B3-1	C7-C
B0 - 5	B2 - 1	B11 - 54	B3-8	C7-D
			A35-B	

BR # 33C - 404

P2574-00

City of Hayward - Not O.C. - Error

MECKLAND UNDERCROSSING
'A' STREET GRADE SEPARATION
WEST 'A' STREET AND 'A' STREET
HATHWAY AVENUE TO BURBANK STREET
GENERAL PLAN & ELEVATION

CITY OF HAYWARD
ENGINEERING DIVISION

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: AUG. 80

PROJ. NO. 8010

SCALE: As Noted

TOTAL SHEETS: 17
FILE NO. E-1233

SHEET NO. S-17

DATE: 8-1-85

Bridge No. 55C-404

Location 07-Oran-FAU M073-CB (on deck)
Dist - Co - Rte - PM - City

Date of Investigation July 23, 1981

Name ANAHEIM-BARBER CITY CHANNEL (Dale St., 0.15 mi. N. of Chapman Ave.)

CONDITION RATING:

APPRAISAL RATING:

Deck N Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 8 Retaining Walls 8

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by County Yes ☐ No ☒

PRIORITY

A - Immediate Action
B - Early Scheduling
C - Routine Maint.
O - For Record Only

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

None

E. L. Neff

E. L. Neff
C 28703

ELN:jj
cc:DRHiggins (2)
Orange County (2)

Bridge No. 550-404
Other No. _____
P.U.C. No. _____
Location 07-Ora-FAU-M073-OR
Dist - Co - Rte - PM - City
Date of Investigation October 24, 1979

Name ANAHEIM-BARBER CITY CHANNEL (Dale St. - .15 Mi. N. of Chapman Ave.)
Lat. N33°-47.4' Long. W117°-59.0'

STRUCTURAL DATA AND HISTORY

Year Built 1959 By Orange County Contract No. Unknown

Date of Revisions _____

Designed by: B.D. ☐ Orange County Plans Avail. @ County

Description: Double 12' x 10' x 90' ROB with 1' ± AC and dirt cover.

Spans 2 @ 12' (clear normal)

Length 33.2' Skew 38° Lt Design LLH20-S16-44

Ratings: Inventory HS20/Assigned Operating HS33/Assigned Permit PPPPP/Assigned

DESCRIPTION - ON STRUCTURE

Bridge Width (w) .8'ou; 8.4'sw; 50.4'; 7.3' dirt; 4'sw; .8' dirt; .8'ou (n)

Total Width 72.5' Lanes 2 Tracks None
(0000)

Median None Rail Type Chain link fence

Vert. Clearance over deck 22'-6" (cable over s. sidewalk) Appr. Rdwy. Width 50'

Wearing Surface AC (3") Deck Seal None

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None

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

Lanes _____ Tracks _____ Pumpplant: ☒ See Br. No. _____

Facilities Crossed Anaheim-Barber City Channel

cc:

Bridge No. **550-404**

Date **October 24, 1979**

DESCRIPTION - HYDRAULICS

Channel **Concrete lined**

Navigable: Yes ☐ No ☒ Clearances: Vert. **N** Horiz. **N**

MAINTENANCE

Custodian **Orange County**

Owner **Orange County**

ORIGINAL
CONDITION RATING

Deck	N
Superstructure	8
Substructure & Pipes	8
Channel & Channel Protection	8
Retaining Walls	8
Approach Rdwy. Alignment	9
Estimated Remaining Life	50

ORIGINAL
APPRAISAL

Overall	8
Deck Geometry	8
Underclearances	Vert. N
	Horiz. N
Safe Load Capacity	9
Waterway Adequacy	8
Approach Rdwy. Alignment	9

Widenable? Yes ☒ No ☐ Conditional ☐

County **Orange**
Action Required by District: Yes ☐ No ☒

AVERAGE DAILY TRAFFIC: **3000* (1979)**

BYPASS DETOUR LENGTH: **1 mile**

ENCROACHMENTS: **3" ϕ gasoline and 24" ϕ concrete pipe attached to the south side of the structure. 18" ϕ concrete pipe attached to the north side of the structure.**

CONDITION OF STRUCTURE: **The structure is in good condition.**

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

RECOMMENDATIONS: **None**

Original signed by

Frank J. Walliser
0019767

FJW:mr
cc:DR Higgins
Dist Of Local Ass't
Orange County (2)

BRIDGE NO. 55C - 404
 LOCATION 07-Ora-FAU-M073-LR
 NAME ANAHEIM-BARBER CITY CHANNEL
(Dale St)

RATING

	FACTOR	VEHICLE	CRIT. LOC.
INVENTORY		<u>H5 20</u>	
OPERATING		<u>H5 33</u>	
PERMIT			
5 AXLE		<u>P</u>	
7 AXLE		<u>P</u>	
9 AXLE		<u>P</u>	
11 AXLE		<u>P</u>	
13 AXLE		<u>P</u>	
LEGAL			
TYPE 3			
TYPE 3S2			
TYPE 3-3			
AC-			

Assigned
 Ratings

RATED BY:

Frank J. Walliser

DATE:

10-24-79