
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 : 55C0125
Facility Carried: NEWPORT BLVD
Location : 1.0 MI S CHAPMAN AVE
City :
Inspection Date : 05-JUN-01

Bridge Inspection Report

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

Name : HIGHCLIFF DR POC

CONSTRUCTION INFORMATION

Year Built : 1969
Year Widened : N/A
Length (m) : 49.1

Skew (degrees): 20
No. of Joints : 0
No. of Hinges : 0

Description of Structure : Continuous two span CIP/RC box girder (2 cells) with an RC single column bent and RC open end diaphragm abutments, all supported upon concrete piles.

Span Configuration : (S) 2 @ 24.4 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20
Inventory Rating : 45.3 metric tons
Operating Rating : 76.1 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) 0.3 m br, 6.4 m, 0.3 m br (E)
Total Width : 7.0 m
Rail Description : Type 1 Railing (Other)
Min. Vertical Clearance : Unimpaired

Net Width : 6.40 m

No. of Lanes : 2
Rail Code : 1000

DESCRIPTION UNDER STRUCTURE

Facility Name	Func Class	Lanes	Horiz Clr (m)	Vert Clr (m)
NEWPORT BLVD	14	2	14.9	4.88

Channel Description : None.

CONDITION OF STRUCTURE

The structure is in very good condition.

MISCELLANEOUS

The bridge deck is closed to vehicular traffic with barrier posts.

Vehicular access to the vicinity of the deck is from the gated entrance at the northwest quadrant.

Traffic lanes are currently being constructed beneath the easterly span. Tie back retaining walls are currently being constructed along the easterly slope. Measure the vertical clearances and take photographs during the next biennial inspection.

ELEMENT LEVEL INSPECTION RATINGS									
F#	Elem	Element Description	Env	Total Units Quantity	Qty in each Condition State				
	No.				St. 1	St. 2	St. 3	St. 4	St. 5
01 12		Concrete Deck - Bare	2	320 sq.m.	320	0	0	0	0
01 105		Reinforced Concrete Closed Webs/Box Girder	2	49 m.	49	0	0	0	0
01 205		Reinforced Conc Column or Pile Extension	2	1 ea.	1	0	0	0	0
01 215		Reinforced Conc Abutment	2	14 m.	14	0	0	0	0
01 252		Cast-In-Drilled Hole Concrete Pile	2	19 ea.	19	0	0	0	0

Printed on : 08-JUN-2001 10:24:30 AM

Bridge No.: 55C0125

Location: 1.0 MI S CHAPMAN AVE

Inspection Date: 05-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	333	Other Bridge Railing	2	108 m.	108	0	0	0	0

WORK RECOMMENDATIONS - NONE

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer

CC : TMRut
Orange County

Bridge No.: 55C0125

Location: 1.0 MI S CHAPMAN AVE

Inspection Date: 05-JUN-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0125
 (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 - NEWPORT BLVD
 (7) FACILITY CARRIED - NEWPORT BLVD
 (9) LOCATION - 1.0 MI S 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 06 SEC
 (17) LONGITUDE 117 DEG 45 MIN 57 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

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

(43) STRUCTURE TYPE MAIN: MATERIAL - CONCRETE CONT
 TYPE - BOX BEAM OR GDR - MULTIPLE CODE 2 05
 (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 CIP 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 1969
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON - HIGHWAY 1
 UNDER - HIGHWAY W/NO PEDESTRIAN 1
 (28) LANES: ON STRUCTURE 02 UNDER STRUCTURE 02
 (29) AVERAGE DAILY TRAFFIC 7000
 (30) YEAR OF ADT 1999 (109) TRUCK ADT 1%
 (19) BYPASS, DETOUR LENGTH 2 KM

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

(48) LENGTH OF MAXIMUM SPAN 24.4 M
 (49) STRUCTURE LENGTH 49.1 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 6.4 M
 (52) DECK WIDTH OUT TO OUT 7 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 6.4 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 6.4 M
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M
 (54) MIN VERT UNDERCLEAR REF - HIGHWAY 4.87 M
 (55) MIN LAT UNDERCLEAR RT REF - HIGHWAY 1.8 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 M
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

***** SUFFICIENCY RATING = 76.1 *****

STATUS = FUNCTIONALLY OBSOLETE

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 7
 (59) SUPERSTRUCTURE 7
 (60) SUBSTRUCTURE 7
 (61) CHANNEL & CHANNEL PROTECTION N
 (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 - 76.1
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 45.3
 (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 4
 (71) WATER ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 6
 (36) TRAFFIC SAFETY FEATURES 1000
 (113) SCOUR CRITICAL BRIDGES N

***** 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 14000
 (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 MO A)
 B) UNDERWATER INSP - NO -1 MO B)
 C) OTHER SPECIAL INSP - NO -1 MO C)

Bridge Number 55C-125

Location 12 - Ora - FAU M016-CR (Under)
Dist.-Co.-Rte.-City

Date of Investigation July 19, 1995

TYPE OF INVESTIGATION/REPORT

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

Name HIGHCLIFF DRIVE OVERCROSSING (Newport Boulevard, 1.0 mile south of Chapman Avenue)

CONDITION RATINGS:

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

Channel & Channel Protection

N

CONDITION OF STRUCTURE:

Bridge deck remains closed to vehicular traffic.

Concrete deck has light random cracking.

Concrete barrier railing has light cracking.

Condition of structure is good.

WORK RECOMMENDED:

None.

M. Hadi Behrooj ^{MMB}

By

G. P. Balinghasay

GPB:ms

cc: CDHarris
Orange County



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:

SUPPLEMENTARY BRIDGE REPORT
DS-M19 (REV. 8/92)

Bridge Number 55C-125

Location 12 - Ora - FAU M016-CR(Under)
Dist.-Co.-Rte.-City

Date of Investigation April 15, 1993

TYPE OF INVESTIGATION/REPORT

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

Name HIGHCLIFF DRIVE OVERCROSSING (Newport Boulevard, 1.0 mile south of Chapman Avenue)

CONDITION RATINGS:

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

Channel & Channel Protection

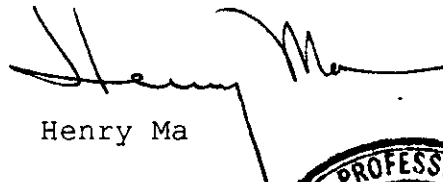
N

CONDITION OF STRUCTURE:

Bridge deck remains closed to vehicular traffic.

Previously noted damaged concrete bridge rail end post at northwest corner has been repaired by patching.

Condition of the structure is good.


Henry Ma

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



PONTIS DATA FORM - PIA

BRIDGE NUMBER	FRAME	INSPECTION DATE
55C0125	01	041593
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	

[illegible]

H. MA

BY:

BRIDGE REPORT

14V53

Bridge No. 55C - 125

DS-M58 (REV. 1/91)

Location 12 - Ora - FAU M016-CR
Dist Co Rte City (under)

REVISED ORIGINAL REPORT Date of Investigation April 17, 1991

Name HIGHCLIFF DRIVE OVERCROSSING (Newport Boulevard, 1.0 mile south of Chapman Avenue)

Lat. 33° - 47.0'N Long. 117° - 46.2'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1969 By County of Orange Contract No. Unknown

Designed by: County Plans Avail. @DOS

Description: 2 span continuous CIP RC box girder (2 cells) supported by single RC column bent and open end RC diaphragm abutments, all on concrete piles.

Spans (S) 2 @ 80' (N)
Length 161' NBIS Bridge Length Yes Skew 20° Right
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) 1'br, 21', 1'br (E)
Total Width 23' Net Width 21' Lanes 2 Tracks None
Median None Rail Type 1 1000
Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 21'
Deck Type 1 Wearing Surface/Prot. Sys. 100 Concrete/none
Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section (S) column, 1.5'MBGR, 4'ea, 34', 5'sw (N) (Under north span)
Clearances: Road: Newport Blvd. Vert. 16'-0" Horiz.Lt. ; Rt. 6.0'

Lanes 2 Tracks None

Facilities Crossed Newport Boulevard (FAU M016)

April 17, 1991

DESCRIPTION - HYDRAULICS

Channel NoneNavigable: Yes ☐ No ☐ Clearances: Vert. _____ Horiz. _____Pier/Abutment Protection (For Navigation) ☐

TRAFFIC INFORMATION	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	0	1991	8,000	1989
Average Daily Traffic (Future) :	N		9,000 Est	2010
Average Daily Trucks (% OF ADT) :	N		1% Est	
Bypass Detour Length	N		1 mile	
Shell Route:	No		No	
Functional Classification :	17		14	
LOAD RATINGS:	Inventory HS 28	Operating HS 47		
	Permit P P P P P	Computation Method	Load Factor	

CONDITION RATINGS:

Deck	7	Superstructure	8	Substructure	8
Channel & Channel Protection	N	Culvert	N	Widenable	Yes

APPRAISAL RATINGS:

Waterway Adequacy	N	Approach Roadway Alignment	6
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Date of Revisions _____

CONDITION OF STRUCTURE:

Bridge deck is closed to vehicular traffic by sign and posts installed in the roadway at south end of the bridge.

There is light cracking in the concrete bridge deck.

Condition of the structure is good.

Henry Ma
Henry Ma

HM:ms

cc: INagai (2)
County of Orange



Bridge No. 55C-125
Location 12-Ora - FAU M016 - CR
Dist. Co. Rte. City (Under)
Date of Investigation 4-13-89

Name HIGHCLIFF DRIVE OVERCROSSING (Newport Boulevard, 1.0 mile S. of Chapman Avenue)

CONDITION RATING:

Deck 7 Superstructure 8 Substr.&Pipes 8
Channel & Channel Protection N Culvert N Widenable? Yes

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE
CATEGORY A OTHER
UNDERWATER OFFICE

CONDITION OF STRUCTURE:

Previously reported condition of fractured concrete bridge rail end post at northwest corner remains the same.

There is standing water on the bridge deck along east bridge rail nearly full length of the bridge, this is due to the sag bridge deck profile.

There appears to be no longer vehicular traffic on bridge deck, only equestrian crossing, since private community guard gate has been constructed 40'± from north bridge approach.

Condition of the structure is good.

REVISION:

Location: 12-Ora-FAU M016-CR (Under)
ADT: 8,000 (Newport Blvd. FAU M016 under) (1988)

WORK RECOMMENDED:

Devise a drainage system to alleviate water ponding on bridge deck. MSCL

Repair damage concrete bridge rail at northwest corner. MSCL

BRIDGE NO. 55C - 125	
SHEET NO. 2	DATE: 4-13-89

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

2 RC open end diaphragm abutments on concrete piles.

1 RC single column bent on concrete piles.


Henry Ma

HM:ms

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



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

Bridge No. 55C-125
Location 7-Ora-FAU M016-CR
(Under) Dist - Co - Rte - PM - City
Date of Investigation April 20, 1987

NAME HIGHCLIFF DRIVE OVERCROSSING (Newport Blvd., 1.0 mile S. of Chapman Ave.)

CONDITION RATING:		APPRAISAL RATING:	
7	8	8	7
Deck	Superstructure	Substr. & Pipes	Overall
	N	N	
Channel & Channel Protection	Retaining Walls		

Widenable? Yes ☒ No ☐ Conditional ☐
Action Required By County Yes ☒ No ☐

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

REVISION:

Condition Rating: Deck - 7
Appraisal Rating: Overall - 7
Average Daily Traffic - 5,000 (Under, 1985)

CONDITION OF STRUCTURE:

Northwest concrete rail and endpost (8 LF +) received impact damage and is fractured, apparently by heavy construction equipment.

There is moderate random cracking of the bridge deck. O

Otherwise, the structure is in good condition.

RECOMMENDED POSTING:

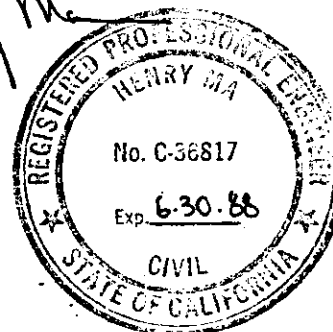
None

WORK RECOMMENDED:

Remove and replace damaged concrete barrier rail at northwest corner of the structure. C

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

Henry Ma



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
ON-02 M18 (REV. 1/74)

Bridge No. 55C-125
Location 7-Oran-Fall M016-CR
2nd - 3rd - 4th - 5th (On Deck)
Date of Investigation January 8, 1986

Name HIGHCLIFF DRIVE OVERCROSSING (Newport Blvd., 1.0 mile S. of Chapman Ave.)

CONDITION RATING:

APPRAISAL RATING:

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

WORK NOT DONE:

The previously recommended work to remove the dirt, which is ponding water on bridge deck has not been done.

WORK DONE:

The previously recommended work to repair the erosion at the end of the northeast wingwall has been done.

REVISION:

Bridge Width - 1'br, 21', 1'br.
Roadway Section - (N) 4'ea, 5'sw, 33.5', 6.3'ea (S)

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

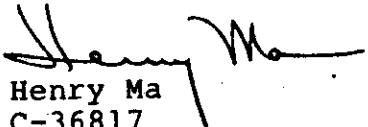
None

WORK RECOMMENDED:

Remove the dirt from the bridge deck so water may drain off.

C

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


Henry Ma
C-36817

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-OS 119 (REV. 1/74)

14V53

Bridge No. 55C-125
Location 7-Ora-FAU M016-CR
Dist - Co - Rte - PM - City (Under)
Date of Investigation September 29, 1983

Name HIGHCLIFF DRIVE OVERCROSSING (Newport Blvd., 1.0 mile S. of
Chapman Ave.)

CONDITION RATING:

APPRAISAL RATING:

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

Widenable? Yes ☒ No ☐ Conditional ☐
County Orange
Action Required by District XXXXX Yes ☒ No ☐

PRIORITY

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

WORK NOT DONE:

The previously recommended work to repair the erosion at the end of the northeast wingwall has not been done.

REVISION:

Ratings - Inventory HS 28/LF
Operating HS 47/LF
Safe Load Capacity 9

CONDITION OF STRUCTURE:

There is up to 5" of dirt buildup on the easterly shoulder and water is ponding across the bridge deck.

Otherwise, the overall condition of the structure is good.

RECOMMENDED POSTING:

None

RECOMMENDATION:

1. Backfill the erosion at the end of the northeast wingwall.
2. Remove the dirt from the bridge deck so water may drain off.

E. L. Neff
E. L. Neff
C-28703

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

DIST	ROUTE	COUNTY	STRU. NO	POSTMILE	RATING	WIDTH-FT	STRU TYPE	YR ORIG	CONST	
07	CO RD	55 C	0125	.	023.0		CGB	69		MAY. 05, 1983

	RATING FACTOR	PT	SPAN	ULT MOM TOP IN COM	CAP BOT IN COM	POS HS20 MOMENT	NEG HS20 MOMENT	POS PURP MOMENT	NEG PURP MOMENT	DEAD LOAD MOMENT	SECONDARY MOMENT
INV	1.40	6	2	8560.5	0.0	1836.0	-356.4	3301.3	-734.9	2303.6	0.0
OPER	2.33	6	2	8560.5	0.0	1836.0	-356.4	3301.3	-734.9	2303.6	0.0
PURP	1.30	6	2	8560.5	0.0	1836.0	-356.4	3301.3	-734.9	2303.6	0.0

THE NUMBER OF AXLES ON THE TRUCK THAT CAUSES THE PURPLE RATING FACTOR IS 13.
 FC = 1.30 FY = 40.

IF THE REPORTED ULTIMATE MOMENT CAPACITY IS 0, IT WAS DETERMINED NOT TO BE CRITICAL

- 2 HIGH CLIFF OVERCROSSING (NEWPORT BLVD)
- 3 CONT 2 SPAN RC BOX GIRDER W/NO ACWS

PPPPP

DIST 07 ROUTE CO RD COUNTY 55 C STRU. NO 0125 POSTMILE . RATING WIDTH-F1 023.0 STRU TYPE CGB YR ORIG CONST 69

MAY. 05, 1983

INFLUENCE LINE FOR CRITICAL INVENTORY RATING POINT SPAN 2 10TH POINT 6

MEM NO	LEFT	.1	.2	.3	.4	.5	.6	.7	.8	.9	RIGHT
1	0.0	-0.662	-1.284	-1.825	-2.247	-2.508	-2.566	-2.381	-1.913	-1.130	0.0
2	0.0	1.577	3.654	6.186	9.122	12.405	15.977	11.780	7.757	3.850	0.0

THE CRITICAL OPERATING RATING POINT IS THE SAME AS THE CRITICAL INVENTORY RATING POINT

THE CRITICAL PURPLE RATING POINT IS THE SAME AS THE CRITICAL INVENTORY RATING POINT

- 2 HIGH CLIFF OVERCROSSING (NEWPORT BLVD)
- 3 CONT 2 SPAN RC BOX GIRDER W/NO ACWS

(3)

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

Bridge No. 55C-125
Location 07-Oran-FAU M016-CR (Under)
Dist - Co - Rte - PM - City
Date of Investigation July 29, 1981

Name HIGHCLIFF DRIVE OVERCROSSING (Newport Blvd., 1.0 mile south of Chapman Avenue)

CONDITION RATING:

APPRAISAL RATING:

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

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by ^{County:} ~~District~~ Yes ☒ No ☐

WORK DONE:

The previously recommended work was not done, i.e., repair the erosion at the end of the northeast wingwall.

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

None.

RECOMMENDATION:

Repair the erosion at the end of the northeast wingwall.

E. L. Neff
E. L. Neff
C 28703

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

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

Bridge No. 59C-123
Location 97-ORA-FAN 1216
Dist - Co - Rte - PM - City
Date of Investigation June 12, 1980

Name HIGHCLIFF DRIVE OVERCROSSING (Newport Blvd. - 1.0 mi. S. of Chapman Ave)

CONDITION RATING:

APPRAISAL RATING:

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

Widenable? Yes ☒ No ☐ Conditional ☐

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

AVERAGE DAILY TRAFFIC - High cliff Drive - 50/Newport Blvd. - 1000
(Estimated 1980)

BYPASS DETOUR LENGTH - 1 mile

CONDITION OF STRUCTURE:

There is erosion at the end of the northeast wingwall. There is a large cavity and the AC pavement has been undermined. (cavity is 3'± long x 2'± x 4'± deep).

Otherwise, the structure is in good condition.

RECOMMENDATION:

Repair the erosion at the end of the northeast wingwall.

Original signed by

FRANK J. WALLISER

FJW:ll
cc:DHiggins
Orange County (2)

Bridge No. 55C-125
Location 07-Ora-FAU M016-16.33-Co
Dist - Co - Rte - PM - City
Date of Investigation June 25, 1976

Name HIGHCLIFF DRIVE OVERCROSSING

CONDITION RATING:

APPRAISAL RATING:

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

Widenable? Yes ☒ No ☐ Conditional ☐

County
Action Required by District: Yes ☐ No ☒

This structure is now on Route FAU M016 (Formerly FAU 6251).

CONDITION OF STRUCTURE:

The structure is in good condition.

RAIL RATING:

(1000)

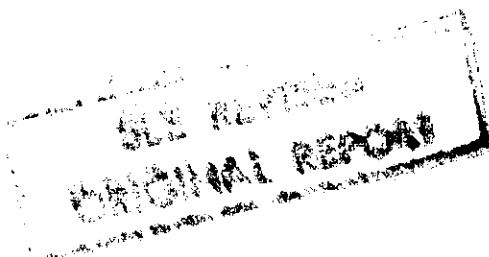
RECOMMENDATIONS:

None.

A. L. Clemence
A. L. Clemence

ALC:ic

554-1A5
Bridge No.
Other No. **OX-2 (OGRD)**
P.U.C. No.
Location **07-Ora-FAU 6251-1.1-Co.**
Dist - Co - Rte - PM - City
Date of Investigation **May 22, 1974**



HIGHCLIFF DRIVE OVERCROSSING (NEWPORT BLVD.)
Name
Lat. **N33°-47.0'** Long. **W 117°-46.2'**

STRUCTURAL DATA AND HISTORY

Year Built **1969** By **OGRD** Contract No.

Date of Revisions

Designed by: B.D. ☐ **OGRD** Plans Avail. @ **Bridge Dept.**

Description: **Continuous R.C. (2-cell) Box Girder on single column R.C. bent on CIRM piles and R.C. diaphragm abutments on 22" CIRM piles with "H"-pile reinforcement.**

Spans **2080'**
Length **161'** Skew **20° Rt.** Design LL **H20-S16-44**
Ratings: Inventory **H19.8** Operating **H36.7** Permit **P-11, G-13**

DESCRIPTION - ON STRUCTURE

Bridge Width **2010.5'**
Total Width **23'** Lanes **2** Tracks **None**
Median **None** Rail Type **Barrier Type 1**
Vert. Clearance over deck **Unimpaired** Appr. Rdwy. Width **25'**
Wearing Surface **None** Deck Seal **None**
Alignment **Tangent**

DESCRIPTION - UNDER STRUCTURE

Roadway Section **14ea-2012.5-6'ea**
Clearances: Vert. **16'-0" (min)** Horiz.; Lt. **6'** Rt.
Lanes **2** Tracks **None** Pumpplant: None ☐ See Br. No.
Facilities Crossed **Newport Blvd.**
cc: **Orange County (2)**

Bridge No. 55C-125
Date May 22, 1974

DESCRIPTION - HYDRAULICS

Channel None

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

MAINTENANCE

Custodian OCRD Owner OCRD

**ORIGINAL
CONDITION RATING**

Deck	<u>8-F8</u>
Superstructure	<u>8-F8</u>
Substructure & Pipes	<u>8-F8</u>
Channel & Channel Protection	<u>NA</u>
Retaining Walls	<u>NA</u>
Approach Rdwy. Alignment	<u>8-F8</u>
Estimated Remaining Life	<u>50</u>

**ORIGINAL
APPRAISAL**

Overall	<u>8-F8</u>
Deck Geometry	<u>5</u>
Underclearances	Vert. <u>7</u>
	Horiz. <u>6</u>
Safe Load Capacity	<u>7-F6</u>
Waterway Adequacy	<u>NA</u>
Approach Rdwy. Alignment	<u>5</u>

Widenable? Yes ☒ No ☐ Conditional ☐

County XXXXXX
Action Required by XXXXXX: Yes ☐ No ☒

CONDITION OF STRUCTURE:

The concrete is of good quality and no defects were noted.

CAPACITY RATING:

The structure is safe for legal loads and has an Overload Rating of P-11, G-13.

RECOMMENDATIONS:

None.

Original signed by

W. R. Baker

WRB:ah

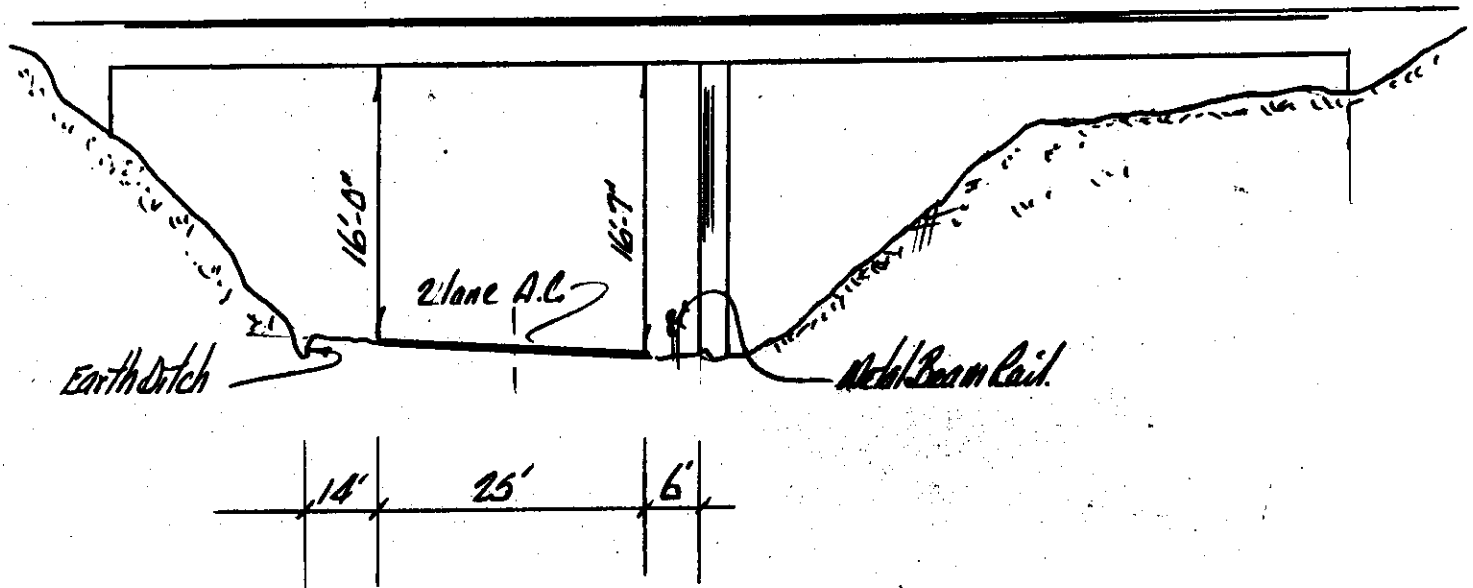
BRIDGE No. 55C-125

SHEET

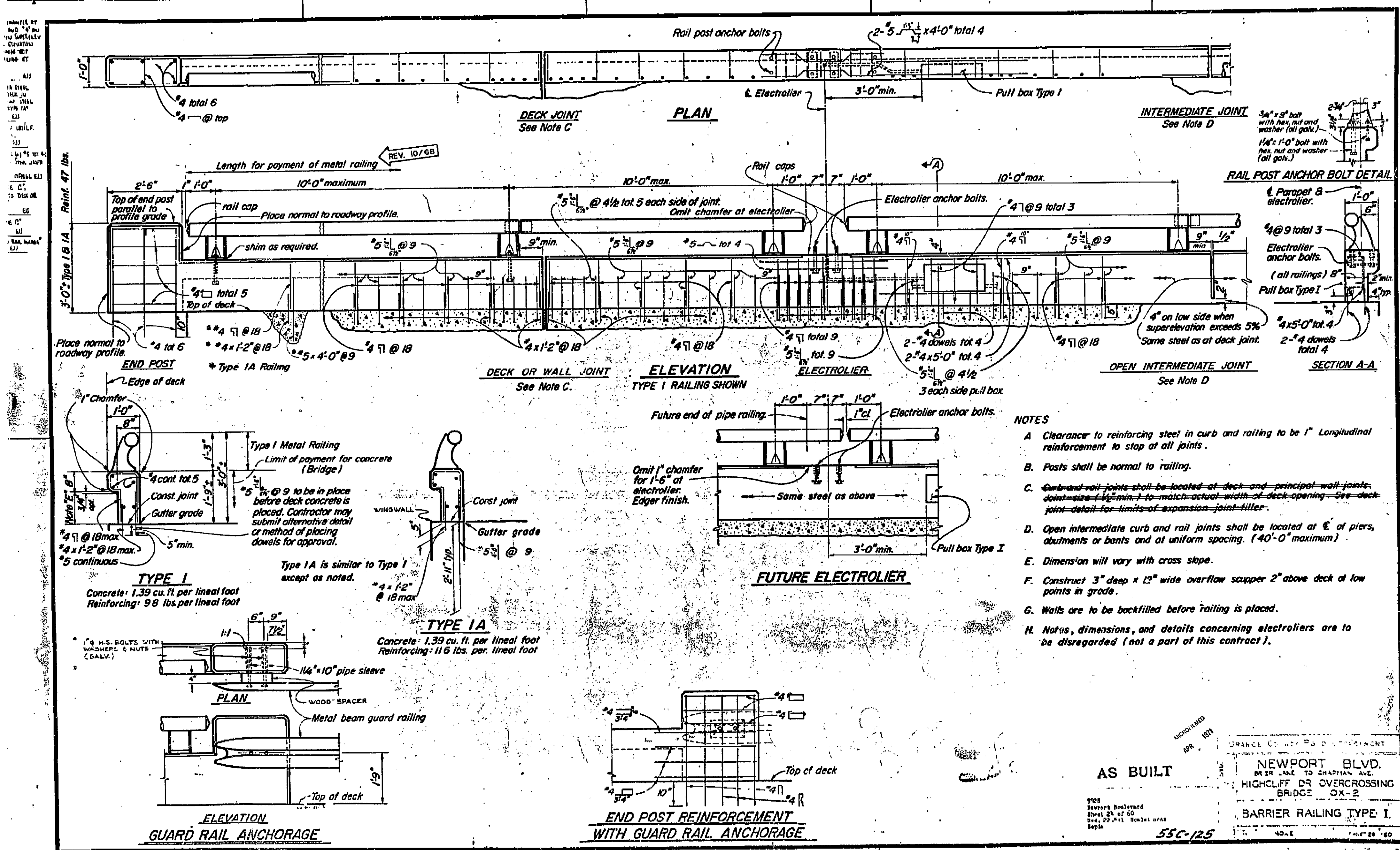
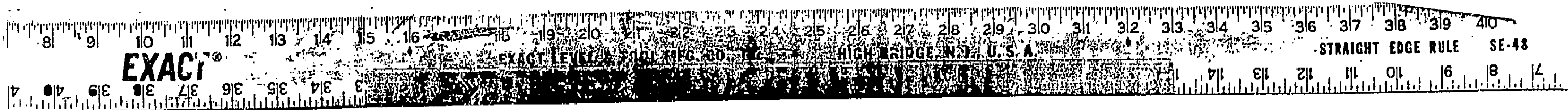
DATE MAY 22, 1974

HIGHCLIFF DRIVE OC.

CLEARANCE DIAGRAM.



LOOKING NORTH ON NEWPORT AVENUE.



20X

AS BUILT PLANS
Contract No. UNKNOWN
Date Completed
Document No. 20008516

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 6-10-83 SIGNATURE Ronald Blackford TITLE
045-55-70

POOR COPY