CPublicWorks Route Slip

		DIRECTOR										
		Executive Secretary										
		☐ Strategic Communications Officer										
		☐ Human Resources										
		ASSISTANT DIRECTOR - CUSTOMER SERVICES			ASSISTANT DIRECTOR - CHIEF ENGINEER							
		☐ Secretary			Secretary							
		ADMINISTRATIVE SERVICES			OC CONSTRUCTION							
		☐ AUDITOR-CONTROLLER/ACCOUNTING SERVICES			☐ CONSTRUCTION MANAGEMENT							
		☐ Payroll			GEOTECHNICAL							
		☐ BUSINESS SERVICES			☐ MATERIALS LABORATORY							
		☐ Building Operations			☐ SPECIAL PROJECTS							
		☐ Card Access			OC ENVIRONMENTAL RESOURCES							
		☐ Document Management			☐ AGRICULTURAL COMMISSIONER							
		☐ Parking Administration			Agricultural Programs							
		☐ CENTRAL QUALITY ASSURANCE ☐ CAMS/E-Agenda			☐ Pest Management							
		☐ FINANCE SERVICES			☐ Weights & Measures Section							
	4	☐ INFORMATION TECHNOLOGY SERVICES			☐ ENVIRONMENTAL MONITORING							
		☐ PROCUREMENT SERVICES			☐ WATER QUALITY COMPLIANCE							
		OC DEVELOPMENT SERVICES			☐ WATERSHED MANAGEMENT							
		☐ BUILDING & SAFETY			OC INFRASTRUCTURE PROGRAMS V							
		☐ Building & Grading Plan Check			☐ DESIGN							
		☐ Neighborhood Preservation			☐ FLOOD PROGRAM SUPPORT							
		☐ INSPECTION SERVICES		2	PROGRAMMING Resina							
		☐ LAND DEVELOPMENT			PROJECT MANAGEMENT (
		PERMITTING			REGULATORY & POLICY							
		Private Property Permits Encroachment Permits			SANTA ANA RIVER PROJECT							
		PLANNING			TRAFFIC ENGINEERING							
		OC FACILITIES DESIGN & CONSTRUCTION			☐ ENGINEERING POLICY							
		REGULATORY COMPLIANCE & CUSTODIAN			OC OPERATIONS & MAINTENANCE (O&M)							
		FACILITIES ADMIN			☐ CITY CONTRACTS							
-		PROJECT MANAGEMENT			☐ EQUIPMENT OPERATIONS							
-		Unit 1 Unit 2		-	GENERAL MAINTENANCE							
		OC FACILITIES MAINTENANCE & CUF		-	☐ INFRASTRUCTURE MGMT PROGRAMS							
		MAINTENANCE & ENGINEERING		-	OC SURVEY							
		☐ Maintenance Mgr ☐ Maint Proj Mgr ☐ Business Analytics		-	FIELD SERVICES							
		UTILITY/ENERGY UNIT			GEOSPATIAL SVCS							
	1	☐ CUF ☐ Env Control ☐ Energy Mgmt ☐ CONTRACTS			MAP CHECK & ROW SERVICES							
			D		SURVEY BUSINESS SERVICES							
	1	OC FLEET SERVICES ADMINISTRATION	Ke	emarks	Pls. review & delermine							
		OPERATIONS	Remarks: PIS. review of determine if we need to initiate any									
		☐ Civic Center Garage ☐ Shop 1 – Fruit Street	1 projects -									
		Shop 2 – Collins Avenue South County Garage	Information									
	_	Conop 2 Comins Avenue		Kest	ponse By Signature/Approval							

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE & INVESTIGATIONS 100 South Main Street, 3rd Floor LOS ANGELES, CA 90012 PHONE (213) 897-2004 FAX (213) 897-2033

April 5, 2018

C: Wordy

Sept Ernst

copyin Reading file Making Conservation

108 a California Way of Life.

Wardy: F. Y. Achier.

APR 16 2018

OC PUBLIC WORKS DIRECTOR'S OFFICE

Mr. Shane Silsby Director of Public Works County of Orange P O Box 4048 Santa Ana, CA 92702-4048

Dear Mr. Silsby:

In accordance with Title 23 of the Code of Federal Regulations (Federal Highway Act) and the National Bridge Inspection Standards (NBIS), Caltrans Structure Maintenance and Investigations performed an inspection of 1 bridge under your jurisdiction. The type of inspection is indicated on the bridge report transmittal sheet. The bridges have been rated to indicate their deficiencies, structural adequacy, safe load carrying capacity and overall general condition.

Enclosed are copies of the Bridge Inspection Reports for the structures noted on the attached transmittal sheet. Thèse reports contain descriptions of physical changes to the structures since the last inspection, recommendations for work to be done, and additional information not recorded in the previous Bridge Reports.

Your attention is directed to the requirements of Title 23, Part 650 of the Code of Federal Regulations, where newly completed structures or any modification of existing structures shall be entered in the inventory within 90 days. Please notify this office of any newly constructed bridge or culvert within your jurisdiction, more than 20 feet measured along the center of the roadway and carrying public vehicular traffic or over a public roadway, in order that it may be entered in the inventory of bridge structures in compliance with Federal requirements.

Should you have any questions regarding the enclosed Bridge Inspection Report, please contact Bing Wu @ (213) 897-0874.

Sincerely,

OHING CHAO Office Chief

Structure Maintenance & Investigations - (Investigations-South)

Enclosures

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE & INVESTIGATIONS 100 South Main Street, 3rd Floor LOS ANGELES, CA 90012 PHONE (213) 897-2004 FAX (213) 897-2033



Bridge Report Transmittal Sheet

Batch <u>42559</u>

County of Orange					
Bridge # Bridge Name	Location	Inspe Date		Out: Work	standing Cost
55C0038 SANTIAGO CREEK	0.2 MI W/O SILVERADO CYN	09/07/2017	Routine	Y	\$

1 Bridge(s) in this Transmittal

DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE & INVESTIGATIONS 100 South Main Street, 3rd Floor LOS ANGELES, CA 90012 PHONE (213) 897-2004 FAX (213) 897-2033



WEB SITES:

The National Bridge Inspection Standards (NBIS) Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges, Element Level Inspection, Structure Maintenance and Investigations Manuals, Local Assistance Program Guidelines and other related information are posted on Division of Maintenance, Structure Maintenance and Investigations; Division of Local Assistance, Local Highway Bridge Program (HBP) and FHWA websites.

The websites can be accessed at:

- 1. "Caltrans Structure Maintenance and Investigations" http://www.dot.ca.gov/hq/structur/strmaint/
- 2. "Caltrans Division of Local Assistance"

http/www.dot.ca.gov/hq/LocalPrograms/hbrr99/hbrr99a.htm

3. "FHWA" http/www.fhwa.dot.gov/BRIDGE/mtguide.pdf

Inspection Type Definitions

Routine Inspection:

Routine Inspections consist of both the initial Inventory Inspection (the first inspection of the bridge that places it in the bridge inventory or when there has been a change in the configuration of the structure) and subsequent regularly scheduled inspections. The initial inspection provides all the Structural Inventory & Appraisal (SI&A) data required by federal and state regulations, determines the baseline structural conditions, lists any existing problems, and establishes the load capacity of the structure. Subsequent inspections consist of observations, measurements needed to determine the physical and functional condition of the bridge, to identify any changes from the previously recorded conditions, and verification of its load capacity. These inspections are generally conducted from the deck, ground and/or water level, and from permanent work platforms and walkways, if present. Inspection of underwater portions of the substructure is limited to observations during low-flow periods and/or probing for signs of undermining. Special equipment should be utilized in circumstances where its use provides the only practical access to areas of the structure.

Fracture Critical, Special Feature & Underwater Inspections:

Fracture Critical, Special Feature, and Underwater Inspections are up close, hands-on inspections of one or more members above or below the water level to identify any deficiencies not readily detectable using Routine Inspection procedures. These inspections generally require special equipment such as under-bridge inspection equipment, manlifts, boats, traffic control, and railroad flagging. Personnel with special skills such as divers or structural steel inspectors trained in non-destructive testing techniques may be required.

Other Inspections:

Other Inspections are conducted on damaged structures, structures that have developed specific problems, or structures suspected of developing problems. The scope of these investigations should be sufficient to determine the need for emergency load restrictions or closure of the structure, monitor a changing condition, and to assess the level of effort necessary to effect a repair.



Structure Maintenance & Investigations

Bridge Number : 55C0038

Facility Carried: SANTIAGO CNYN ROAD

Location : 0.2 MI W/O SILVERADO CYN

City

Inspection Date: 09/07/2017

Inspection Type

Bridge Inspection Report

		-2F-		
Routine	FC	Underwater	Special Other	
X				

STRUCTURE NAME: SANTIAGO CREEK

CONSTRUCTION INFORMATION

Year Built : 1963 Skew (degrees): 0 Year Modified: N/A No. of Joints : 2 Length (m) : 69.5 No. of Hinges : 0

Structure Description: Continuous four span CIP/RC T-beam (5 each) with RC single column

bents and RC open end seat abutments, all supported upon spread

footings.

Span Configuration : (W) 49.00 ft, 2 @ 63.00 ft, 49.00 ft (E).

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: MS-18 OR HS-20

Inventory Rating: RF= 0.94 Calculation Method: (LRFR) LD & RES FACT RATING
Operating Rating: RF= 1.22 Calculation Method: (LRFR) LD & RES FACT RATING

Permit Rating : ppppp

Posting Load : Type 3: <u>Legal</u> Type 3S2: <u>Legal</u> Type 3-3: <u>Legal</u>

DESCRIPTION ON STRUCTURE

Deck X-Section: (S) 1.50 ft br, 27.50 ft, 1.50 ft br (N)

Total Width: 9.3 m Net Width: 8.5 m No. of Lanes: 2 Speed: 55 mph

Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 inches

Rail Code: 0111

Rail Type Location Length (ft) Rail Modifications
Type 8 Right/Left 492

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal with a cobbled bottom.

NOTICE

The bridge inspection condition assessment used for this inspection is based on the American Association of State Highway and Transportation Officials (AASHTO) Bridge Element Inspection Manual 2013 as defined in Moving Ahead for Progress in the 21st Century (MAP-21) federal law. The new element inspection methodology may result in changes to related condition and appraisal ratings on the bridge without significant physical changes at the bridge.

The element condition information contained in this report represents the current condition of the bridge based on the most recent routine and special inspections. Some of the notes presented below may be from an inspection that occurred prior to the date noted in this report. Refer to the Scope and Access section of this inspection report for a description of which portions of the bridge were inspected on this date.

INSPECTION COMMENTARY

SCOPE AND ACCESS

A complete routine inspection was performed by walking on and around the structure to inspect all visible elements on the existing structures. The creek was dry at the time of the inspection. A full visual inspection is performed for the visible substructure elements. Pedestrian access is from northeast and southwest quadrants.

Printed on: Thursday 03/29/2018 06:20 PM

55C0038/AAAK/42559

INSPECTION COMMENTARY

DECK AND ROADWAY

The AC roadway has a pothole 2 feet X 1 foot X 2 inches at east end.

WATERWAY

A channel cross section was taken on 03/28/2018 and is included with this report. The cross section was taken from the upstream side, and spot checked and compared the downstream side with the previous cross section taken on 10/27/2009. The results of that comparison indicate that the channel has not significantly changed.

The channel is previously degraded and the the embankment washed away at Bent 3, and the city placed grouted riprap to protect it from scour. ABME keep monitor that next routine inspections.

The west channel slope is undermined 40 feet long and 2 feet deep at the upstream side (south side). (see the attached photos no. 4 & 5)

SCOUR

Scour History:

May 16, 1995, Caltrans inspected the bridge and found embankment around Bent #3 (center pier) had completely

washed away, exposing the pedestal. Following receipt of the report, County forces placed riprap at Bent# 3 to

protect the column.

May 14, 1996, Caltrans inspected the bridge and found that the streambed had again degraded due to scour at Bent

#3 (center pier) and that the footing was exposed. In response, County forces placed additional riprap and grouted

that placed immediately adjacent to the column.

June 05, 2001, Caltrans inspected the bridge and found the top of the footing at Bent# 3 to be exposed. In response, County forces placed additional riprap and grouted that placed immediately adjacent to the column.

Hydraulic report dated 10/27/2009:

This hydraulic report dated 10/27/2009 addresses hydraulic issues only. The structure's scour potential has been assessed in accordance with the FHWA Technical Advisory T5140.23, "Evaluating Scour at Bridges". The NBI Item 113 Code, "Vulnerability to Scour", has been changed to 5: "Bridge Foundations determined to be stable for assessed or calculated scour conditions. Scour is determined to be within the limits of footings or piles (Example B) by assessment (i.e., bridge foundations are on rock formations that have been determined to resist scour within the service life of the bridge), by calculations or by installation of properly designed countermeasures."

The local agency sent this office a set of scour mitigation as-built plans in the fall of 2009. At the request of the local agency, this office performed a field review on 10-27-2009.

On the date of the investigation, the channel was dry. A downstream cross section was taken (attached). Comparison of this cross section to historical cross sections indicate that the channel has been modified and this was verified in the field.

Although the channel bed appears lower then what is showed on the original as-built plans, the channel modifications are visible and furthermore, the channel modifications

INSPECTION COMMENTARY

appear to provide adequate scour protection against scour.

Scour mitigation plans indicate that new footing skirts were placed at Piers 2, 3 and 4 and new rock placed at Piers 2 and 3.

Large rock protection was noted along the westerly embankment and appears to provide adequate protections for Abutment 1 and Pier 2. No foundation exposure was noted.

The thalweg was noted in the middle of Span 2. It appears to be well aligned to the bridge opening. The channel consisted of silty sand and gravel with some rock outcrops visible within the channel.

Pier 3 was protected by an apron of grouted rock and a new footing skirt. The top of the new footing skirt was exposed. The scour countermeasures at Pier 3 appeared adequate and in correspondence with the local agency, the new footing skirt apparently was placed to a competent hard sandstone. Upon visual inspection of the sandstone outcrops visible in the channel both upstream and downstream of the bridge, the sandstone in the area appears to be hard and competent material that will likely provide a scour resistant foundation base for Pier 3.

No other scour or scour potential was noted. Based upon what was noted in the field and the information provided by the local agency, the bridge is no longer considered scour critical.

SAFE LOAD CAPACITY

The load rating for this structure is being reviewed by SMI Ratings Branch. An updated Load Rating Summary will be archived when this review is complete.

MISCELLANEOUS

A scour is noticed at Bents 2 and 3, and the spread footing is exposed. A request #7983 was sent the hydraulic department on 03/05/2018 to re-assess the current hydraulic condition.

ELEMENT INSPECTION RATINGS AND COMMENTARY										
	Defect De	efect Element Description		Env	Total Qty	Units	Qty in St. 1	each Co St. 2		
16		Top Flange-RC		2	646	sq.m	636	10	0	0
	1120	Efflorescence/Rust Staini	ing	2	10		0	10	0	0
	521	Concrete Coat. (Meth/Paint	:/Seal)	2	584	sq.m	584	0	0	0
(16) There were no significant defects noted. (16-1120)										
There spans.		hort 2 feet long transverse o	cracks with	light	white	efflor	rescence	at the	soffit	in all
(16-52 There		ignificant defects noted.								
110		Girder/Beam-RC		2	348	m	332	15	1	0

Page 4 of 7

ELEMENT INSPEC	TION RATINGS AND COMMENTARY						
Elem Defect De	efect Element Description	Env	Total Qty	Units Qty :	in each (1 St. 2		
1080	Delamination/Spall/Patched Area	2	1	0	0	1	0
1130	Cracking (RC and Other)	2	15	0	15	0	0
(110-1080)							
	of the north girder has a spall 2 feet the attached photo no. 6)	X 4 i	nches :	X 1 inch at	25 feet	from co	lumn 3
	rders have few vertical and diagonal creed near the supports.	acks,	up to :	2.5 feet lor	ng and ur	to 0.04	4 inches
215	Abutment-RC	2	28	m 27	1	0	0
1130	Cracking (RC and Other)	2	1	0	1	0	0
(215) There were no s. (215-1130)	ignificant defects noted.						
The west Abutmer	net has a vertical crack, 0.05 inches w	ide un	der gir	rder 3.			
220	Pile Cap/Footing-RC	2	12	m 0	12	0	0
6000	Scour	2	12	0	12	0	0
(220-6000)							
	er column 3 is exposed 20 feet long and ne footing and there is undermining 15 oto no. 2)						
234	Pier Cap-RC	2	27	m 27	0	0	0
(234) There were no si	gnificant defects noted.						
254	Column Shell-Full Ht	2	3	ea. 3	0	0	0
515	Steel Coating-Paint	2	105	sq.m 105	0	0	0
(254) The footings top are exposed 2' x 10' at bent #2 and #3. According to the hydraulic report it is within the limits (254-515) There were no significant defects noted.							
256	Slope Protection	2	2	ea 2	0	0	0
(256)				_			-
There were no si	gnificant defects noted.						
301	Joint-Pourable Seal	2	20	m 20	0	0	0
(301) There were no si	gnificant defects noted.						
		= =					

ELEMEI	NT INSPECTION RATINGS AND COMMENTARY							
	Defect Defect Element Description /Prot	Env	Total Qty	Units			ondition St. 3	
311	Bearing-Moveable	2	10	each	10	0	0	0
(311)								
There	were no significant defects noted.							
330	Railing-Metal	2	139	m	139	0	0	0
(330)								
There	were no significant defects noted.							

WORK RECOMMENDATIONS

RecDate: 09/07/2017

EstCost:

Protect the channel bed and sides, around

Action : Sub-Fix Scour Crit. StrTarget: 2 YEARS the columns from further degradation and

Work By: LOCAL AGENCY

DistTarget:

scour.

Status : PROPOSED EA:

CHANNEL	X-SECTION			
	Upstream From :soffit of south	overhang		X-Section Date: 09/07/2017
Location		Horiz(m)	Vert(m)	Comments
Abutment	1	0.40	2.11	Face of the west Abutment
		9.50	2.16	Top wall ·
		9.80	5.92	Botton of wall/Top of rocks
Bent 2		14.50	7.35	CL Bent 2
		17.10	9.25	Toe of rocks/top of earth slope
		19.70	11.08	channel edge
		21.70	10.75	
		28.20	11.05	edge of grouted riprap @ Bent 3 footing
		31.20	9.95	top of riprap
Bent 3		34.00	9.95	CL Bent 3
		41.08	7.35	top of earth slope
Bent 4		53.20	7.85	Toe of rocks slope
		63.50	4.15	Top of rocks/Bottom of wall
		63.60	2.30	Top of wall
butment	5	67.60	1.80	Face of the east Abutment

Team Leader : Ashraf Shenouda

Report Author : Ashraf Shenouda

Inspected By : A.Shenouda/KD.Henderson

Ashraf Shenouda (Registered Civil Engineer) (Date)

Ashraf
Shenouda

No. 64332

06/30/2019

CIVIL

OF CALIFORNIA

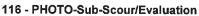
STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		**************************************
(1)	STATE NAME- CALIFORNIA 069		
, ,	STRUCTURE NUMBER 55C0038		STATUS
(5)	INVENTORY ROUTE(ON/UNDER) - ON 140000000		HEALTH INDEX 98.9
(2)	HIGHWAY AGENCY DISTRICT 12		PAINT CONDITION INDEX = 100.0
(3)	COUNTY CODE 059 (4) PLACE CODE 00000		******* CLASSIFICATION ********* CODE
(6)	FEATURE INTERSECTED- SANTIAGO CREEK	(112)	NBIS BRIDGE LENGTH- YES Y
(7)	FACILITY CARRIED- SANTIAGO CNYN ROAD	(104)	HIGHWAY SYSTEM- ROUTE ON NHS 1
(9)	LOCATION- 0.2 MI W/O SILVERADO CYN	(26)	FUNCTIONAL CLASS- OTHER PRIN ART URBAN 14
(11)	MILEPOINT/KILOMETERPOINT 0		DEFENSE HIGHWAY- NOT STRAHNET 0
	BASE HIGHWAY NETWORK- PART OF NET 1		PARALLEL STRUCTURE- NONE EXISTS N
	LRS INVENTORY ROUTE & SUBROUTE 00000000000		DIRECTION OF TRAFFIC- 2 WAY 2
	LATITUDE 33 DEG 44 MIN 51.58 SEC	(103)	TEMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 40 MIN 33.96 SEC	(105)	FED.LANDS HWY- NOT APPLICABLE 0
	BORDER BRIDGE STATE CODE % SHARE %	(110)	DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	BORDER BRIDGE STRUCTURE NUMBER		TOLL- ON FREE ROAD
		(21)	MAINTAIN- COUNTY HIGHWAY AGENCY 02
	******* STRUCTURE TYPE AND MATERIAL *******	(22)	OWNER- COUNTY HIGHWAY AGENCY 02
(43)	STRUCTURE TYPE MAIN:MATERIAL- CONCRETE CONT TYPE- TEE BEAM CODE 204	(37)	HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		********** CONDITION ********** CODE
	TYPE- OTHER/NA CODE 000	(58)	DECK 7
(45)	NUMBER OF SPANS IN MAIN UNIT 4	(59)	SUPERSTRUCTURE 7
(46)	NUMBER OF APPROACH SPANS 0		SUBSTRUCTURE 7
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1		CHANNEL & CHANNEL PROTECTION 4
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS
A)	TYPE OF WEARING SURFACE- NONE CODE 0		****** LOAD RATING AND POSTING ****** CODE
	TYPE OF MEMBRANE- NONE CODE 0		DESIGN LOAD- MS-18 OR HS-20 5
C)	TYPE OF DECK PROTECTION- NONE CODE 0		OPERATING RATING METHOD- (LRFR) LD & RES FA 8
	******** AGE AND SERVICE **********		OPERATING RATING- RF= 1.22
(27)	YEAR BUILT 1963		INVENTORY RATING METHOD- (LRFR) LD & RES FA 8
(106)	YEAR RECONSTRUCTED 0000		INVENTORY RATING- RF= 0.94
(42)	TYPE OF SERVICE: ON- HIGHWAY 1		BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
	UNDER- WATERWAY 5		STRUCTURE OPEN, POSTED OR CLOSED-
	LANES:ON STRUCTURE 02 UNDER STRUCTURE 00	,	DESCRIPTION- OPEN, NO RESTRICTION
	AVERAGE DAILY TRAFFIC 7000		
	YEAR OF ADT 2012 (109) TRUCK ADT 5 %		*********** APPRAISAL ********** CODE
(19)	BYPASS, DETOUR LENGTH 22 KM		STRUCTURAL EVALUATION 7
	************ GEOMETRIC DATA ***********		DECK GEOMETRY 4
(48)	LENGTH OF MAXIMUM SPAN 19.2 M		UNDERCLEARANCES, VERTICAL & HORIZONTAL N
	STRUCTURE LENGTH 69.5 M		WATER ADEQUACY 8
(50)	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M		APPROACH ROADWAY ALIGNMENT 6
	BRIDGE ROADWAY WIDTH CURB TO CURB 8.5 M		TRAFFIC SAFETY FEATURES 0111
	DECK WIDTH OUT TO OUT 9.3 M	(113)	SCOUR CRITICAL BRIDGES 5
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 12.2 M		******* PROPOSED IMPROVEMENTS *******
	BRIDGE MEDIAN 0	(75)	TYPE OF WORK- CODE
(34)	SKEW 0 DEG (35) STRUCTURE FLARED NO	(76)	LENGTH OF STRUCTURE IMPROVEMENT M
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M	(94)	BRIDGE IMPROVEMENT COST
	INVENTORY ROUTE TOTAL HORIZ CLEAR 8.5 M	(95)	ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(96)	TOTAL PROJECT COST
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M	(97)	YEAR OF IMPROVEMENT COST ESTIMATE
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M MIN LAT UNDERCLEAR LT 0.0 M		FUTURE ADT 9619
		(115)	YEAR OF FUTURE ADT 2035
	************** NAVIGATION DATA **********		************* INSPECTIONS ***********
	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 09/17 (91) FREQUENCY 24 MO
	PIER PROTECTION- CODE		CRITICAL FEATURE INSPECTION: (93) CFI DATE
	NAVIGATION VERTICAL CLEARANCE 0.0 M		FRACTURE CRIT DETAIL- NO MO A)
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M		UNDERWATER INSP- NO MO B)
(40)	NAVIGATION HORIZONTAL CLEARANCE 0.0 M		OTHER SPECIAL INSP- NO MO C)

116 - PHOTO-Sub-Scour/Evaluation



Photo No. 2
Footing is exposed under column 3.



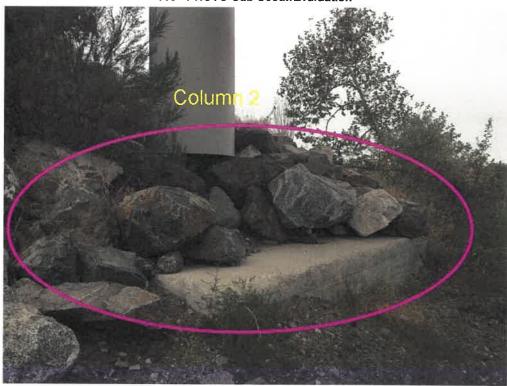


Photo No. 3
Footing is exposed under column 2.

130 - PHOTO-Hydraulic-Unusual Conditions



Photo No. 4
Channel degraded with undermining at the south side.





Channel degraded with undermining at the south side.

107 - PHOTO-Super-Damage/Deteroration



Photo No. 6 Spall at the girder 1 (north) at Span 2.





Photo No. 7
Pipe attached under girder 5.

133 - PHOTO-Unclassified



Pipe attached to the nor face of the north girder.