INFORMATION HANDOUT

For Contract No. 07-305504
At 07-LA-5-13.7/26.7

Identified by
Project ID 0714000101

MATERIALS INFORMATION

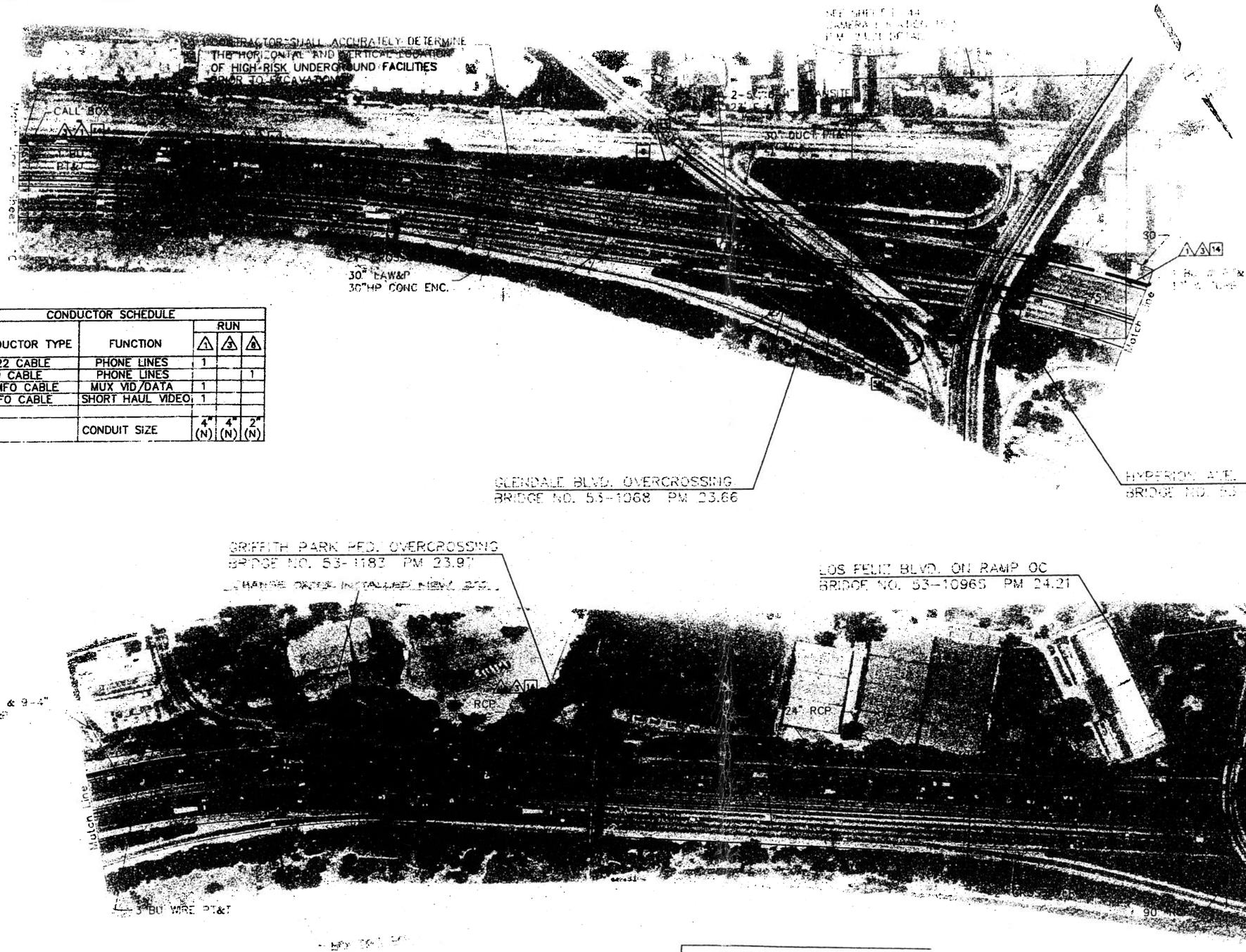
List of the preconstruction operational status-check results

Fiber Optic Cable System As-built Drawings

Aerially Deposited Lead (ADL) Data and Location Maps

07-305504 List of Preconstruction Operational Status-Check Results

Rte	DIR	Post Mile	NAME	MSID	Type	Active	Line	Cntr ID	Comm Type
5	S	13.67	S OF 710	2536	170	Y	48	5	FIBER
5	N	14.35	DOWNEY	3153	170	Y	48	11	FIBER
5	S	14.763	DITMAN	3151	170	Y	48	17	FIBER
5	N	14.803	DITMAN	3593	170	Y	48	18	FIBER
5	N	15.14	CALZONA	3154	170	Y	48	16	FIBER
5	S	15.14	CALZONA	3150	170	Y	48	12	FIBER
5	N	15.77	CONCORD	2576	170	Y	48	9	FIBER
5	S	15.77	CONCORD	3149	170	Y	48	8	FIBER
5	N	16.13	EUCLID 1	2540	170	Y	48	19	FIBER
5	S	16.49	EIGHTH	3148	170	Y	48	10	FIBER
5	S	16.6	SEVENTH ST	3147	170	Y	48	7	FIBER
5	S	17.44	FOURTH	3629	170	Y	60	5	FIBER
5	S	17.93	BROOKLYN	3628	170	Y	60	4	FIBER
5	S	18.59	MISSION	3625	170	Y	60	3	FIBER
5	N	18.71	MARENGO	3034	170	Y	60	6	FIBER
5	S	19.45	BROADWAY	3624	170	Y	60	2	FIBER
5	N	20	PASADENA	3035	170	Y	60	12	FIBER
5	S	20.33	AVE 26	3146	170	Y	60	1	FIBER
5	S	20.7	DUVALL	3094	170	Y	74	5	FIBER
5	N	21.1	RIVERSIDE	3036	170	Y	74	4	FIBER
5	N	21.47	DORRIS	2083	170	Y	74	11	FIBER
5	S	21.71	STADIUM	3095	170	Y	20	10	MIXED
5	N	21.8	STADIUM	3037	170	Y	20	11	MIXED
5	S	22.4	S OF 2	2287	170	Y	74	17	FIBER
5	S	22.76	N OF 2	2279	170	Y	60	10	FIBER
5	N	23.2	FLETCHER	3038	170	Y	74	7	FIBER
5	S	23.58	GLENDALE	3096	170	Y	74	8	FIBER
5	N	23.86	GLENDALE	3039	170	Y	74	9	FIBER
5	S	24.168	LOS FELIZ	3097	170	Y	74	1	FIBER
5	N	24.36	LOS FELIZ 1	3040	170	Y	74	12	FIBER
5	N	24.54	LOS FELIZ 2	3041	170	Y	74	13	FIBER
5	S	24.54	GRIFFITH PARK	3098	170	Y	74	14	FIBER
5	S	25.85	COLORADO	3099	170	Y	74	3	FIBER
5	N	25.9	COLORADO	3042	170	Y	74	2	FIBER
5	S	26.35	ZOO DR	3100	170	Y	60	8	FIBER



CONDUCTOR SCHEDULE				
		RUN		
CONDUCTOR TYPE	FUNCTION	1	3	8
50P22 CABLE	PHONE LINES	1		
6P19 CABLE	PHONE LINES			1
48SMFO CABLE	MUX VID/DATA	1		
8MMFO CABLE	SHORT HAUL VIDEO	1		
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)

AS BUILT
Contract No. 07-116634
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-11

15.9/46.2,50.1 33 53

Joseph A. Kwok

8-31-92

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN OVER: GLORIA GWYNNE

JK 3/23

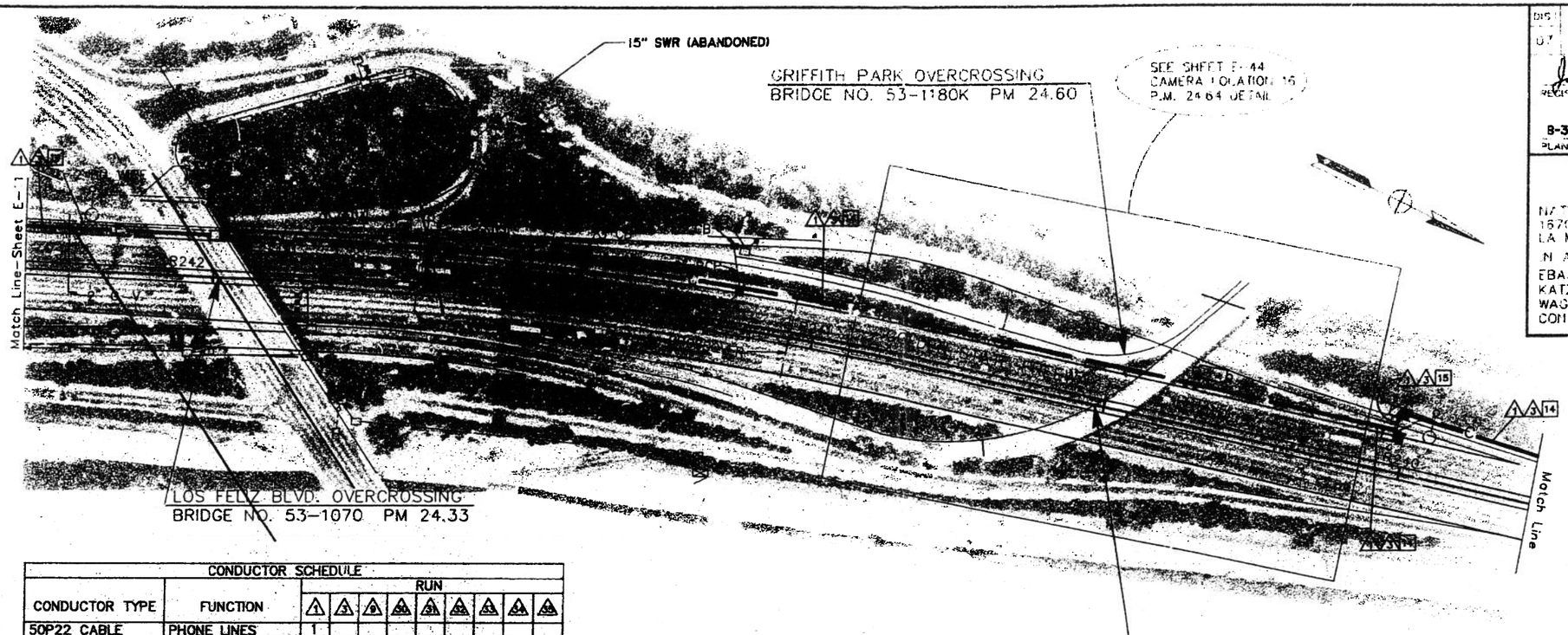
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	110	16.9/46.2,SOJ	34	153

REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

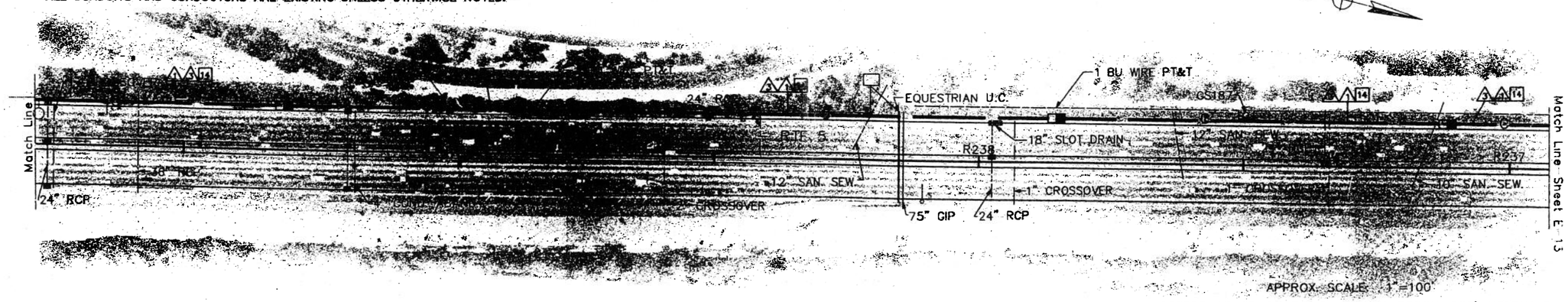
PROFESSIONAL ENGINEER JOSEPH A. KWAK No. 0491 Exp. 6/30/95 STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



CONDUCTOR TYPE	FUNCTION	RUN 1	2	3	4	5	6	7	8	9
50P22 CABLE	PHONE LINES	1								
12P22 CABLE	PHONE LINES			1	1(N)	1(N)	1(N)	1(N)	1(N)	
48SMFO CABLE	MUX VID/DATA	1								
8MMFO CABLE	SHORT HAUL VIDEO	1								
#14 EXIST.	RAMP SIGNAL									3
#14 EXIST.	METER ON									1
#14 EXIST.	SPARES									4
2#12 EXIST.	COUNT DETECTOR				5	6	8	9	9	
2#12 EXIST.	RAMP DETECTOR								3	
#10 EXIST.	COMMON									2
#8 EXIST.	SERVICE									2
4#18 EXIST.	SHIELDED TEL. CABLE				2	3	3	3	3	
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2"	2"	2"	2"	2"	2"

~~ALL CONDUITS AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED.~~



APPROX. SCALE: 1"=100'
REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

AS BUILT
Contract No. 07- 116634
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-12

DATE	REVISED BY	DATE	REVISED
		3/23	

CALCULATED/DESIGNED BY: JK
CHECKED BY:
DESIGN OVERSIGHT: GLORIA GWYNNE

CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
STAT. 03/19/92
116634E12.DWG

FOR REDUCED PLANS 0 1 2 3

07 0738? LA 116634

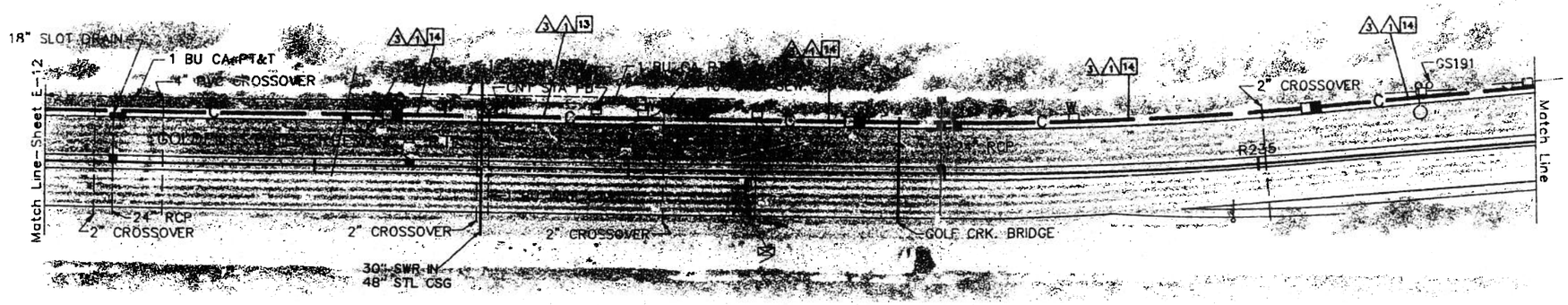
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,50.1	35	153

REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSEPH A. KWAK No. 11997 Exp. 6/30/95 STATE OF CALIFORNIA

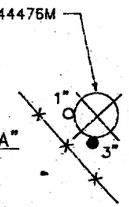
NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS

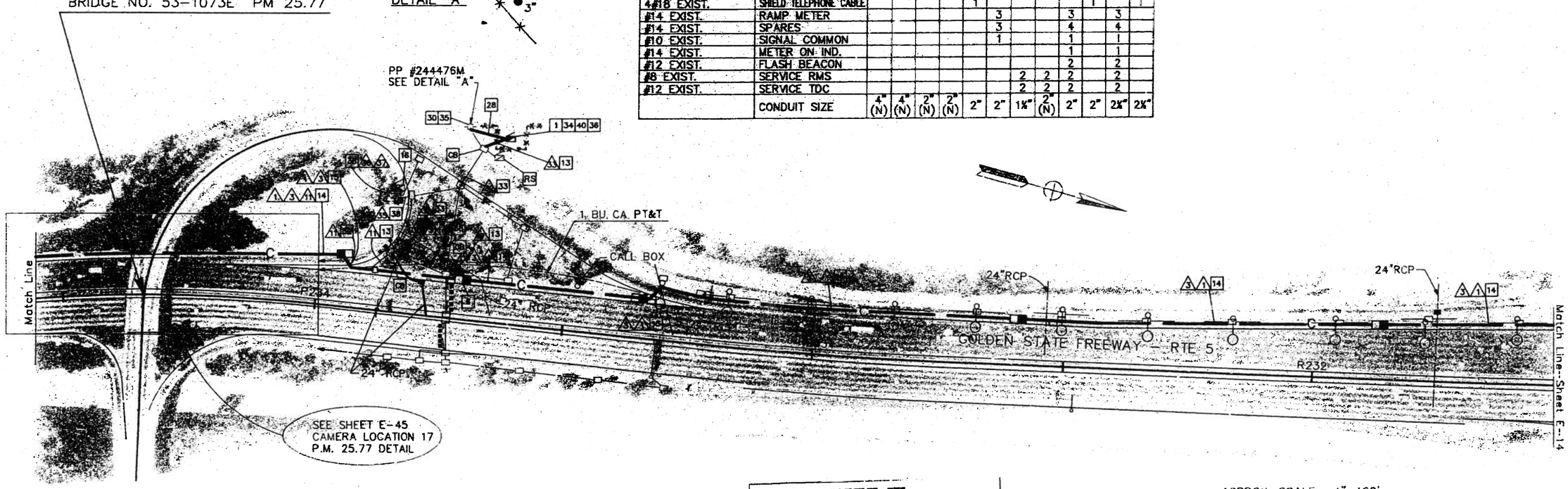


CONDUCTOR TYPE	FUNCTION	1	3	8	11	30	31	32	33	34	35	36	37
		CONDUCTOR SCHEDULE RUN											
50P22 CABLE	PHONE LINES	1											
12P22 CABLE	PHONE LINES			1		1(N)					1(N)		1(N)
48SMFO CABLE	MUX VID/DATA	1											
8MMFO CABLE	SHORT HAUL VIDEO	1											
#4	POWER				2		2(N)	2(N)	2				
#8	GROUND				1								
DLC EXIST.	DETECTOR LOOP CAB.					5	2			2	5		7
4#18 EXIST.	SHIELD TELEPHONE CABLE					1					1		1
#14 EXIST.	RAMP METER						3			3		3	
#14 EXIST.	SPARES						3			4		4	
#10 EXIST.	SIGNAL COMMON						1			1		1	
#14 EXIST.	METER ON IND.									1		1	
#12 EXIST.	FLASH BEACON									2		2	
#8 EXIST.	SERVICE RMS							2	2	2		2	
#12 EXIST.	SERVICE TDC							2	2	2		2	
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2" (N)	2"	2"	1½"	2" (N)	2"	2"	2½"	2½"

COLORADO BL ON/OFF RAMPS
BRIDGE NO. 53-1073E PM 25.77

DETAIL "A"





AS BUILT
Contract No. 07-116634
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

APPROX. SCALE: 1"=100'
REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-13

DATE	REVISED BY	DATE REVISED
3/23	JK	

CALCULATED/DESIGNED BY
CHECKED BY
DESIGN OVER... HT
GLORIA GWYNNE

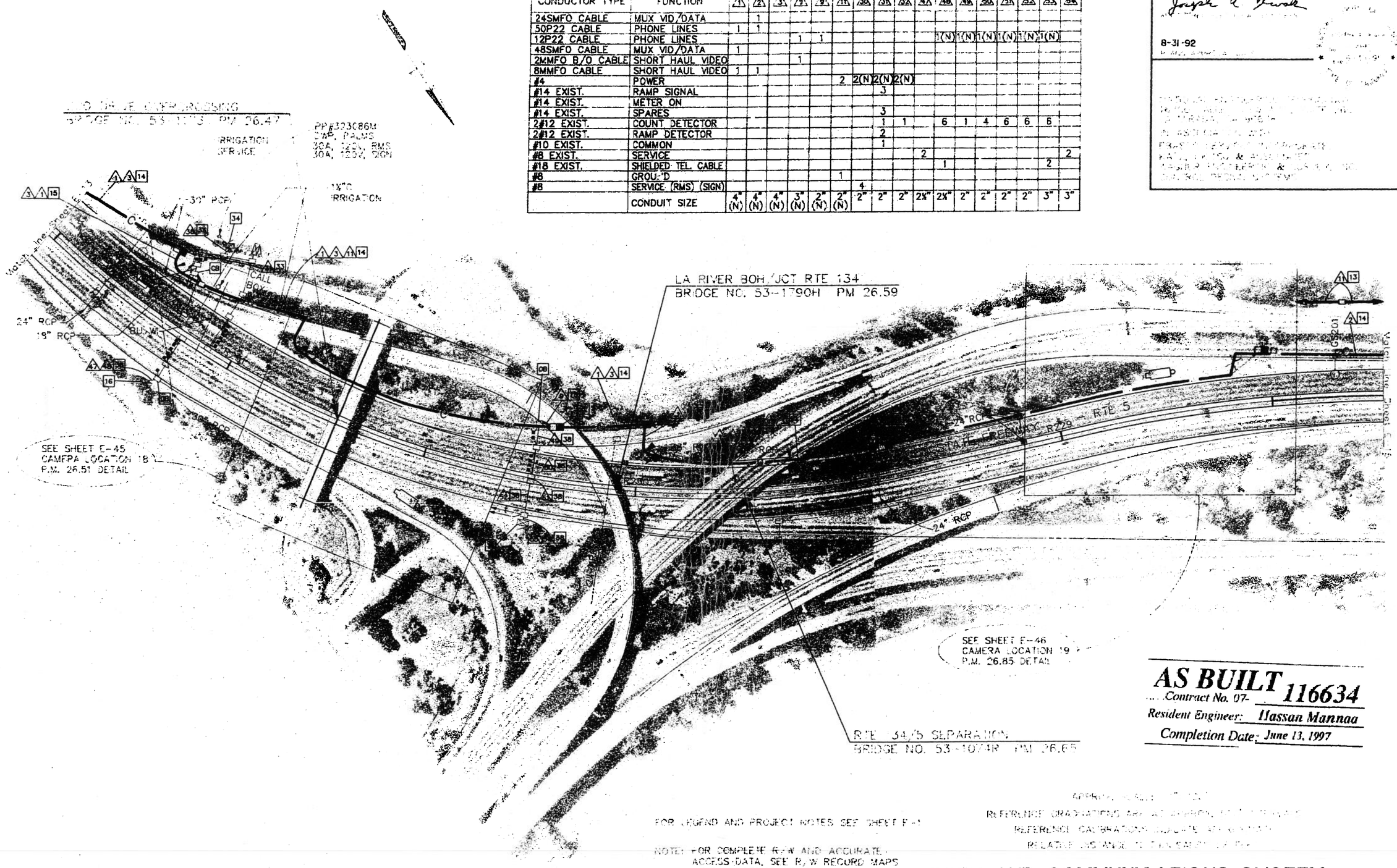
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03/16/92
116634C13.DWG

CONDUCTOR SCHEDULE																		
CONDUCTOR TYPE	FUNCTION	RUN																
		1	2	3	9	9	11	30	31	32	47	48	49	50	51	52	53	54
24SMFO CABLE	MUX VID/DATA		1															
50P22 CABLE	PHONE LINES	1	1															
12P22 CABLE	PHONE LINES				1	1						1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	
48SMFO CABLE	MUX VID/DATA	1																
2MMFO B/O CABLE	SHORT HAUL VIDEO				1													
8MMFO CABLE	SHORT HAUL VIDEO	1	1															
#4	POWER						2	2(N)	2(N)	2(N)								
#14 EXIST.	RAMP SIGNAL								3									
#14 EXIST.	METER ON																	
#14 EXIST.	SPARES								3									
2#12 EXIST.	COUNT DETECTOR								1	1		6	1	4	6	6	6	
2#12 EXIST.	RAMP DETECTOR								2									
#10 EXIST.	COMMON								1									
#8 EXIST.	SERVICE										2							2
#18 EXIST.	SHIELDED TEL. CABLE											1					2	
#8	GROUND						1											
#8	SERVICE (RMS) (SIGN)							4										
	CONDUIT SIZE	4" (N)	4" (N)	4" (N)	3" (N)	2" (N)	2" (N)	2"	2"	2"	2½"	2½"	2"	2"	2"	2"	3"	3"

5.10 16.9/46.2,50.1 36 .53

Joseph A. Kwak

8-31-92



AS BUILT Contract No. 07- **116634**

Resident Engineer: *Hassan Mannaa*

Completion Date: *June 13, 1997*

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN OVERSIGHT GLORIA GWYNNE

CALCULATED / DESIGNED BY / CHECKED BY JK 3/23 DATE REVISED BY / DATE REVISED BY

05-13-93

1:166.3E4.DGS

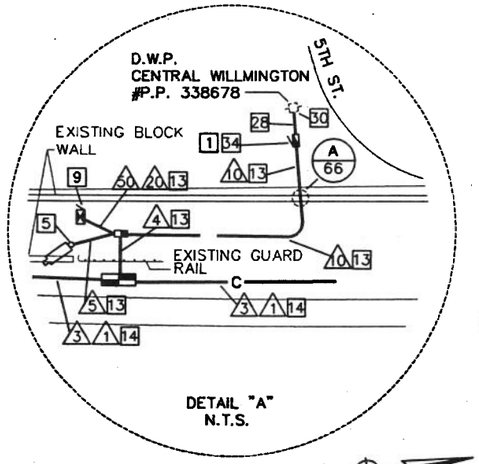
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5/10	16.3/46.2,30.1	59	153

Joseph A. Kwak 3/23/92
REGISTERED ELECTRICAL ENGINEER (Date)

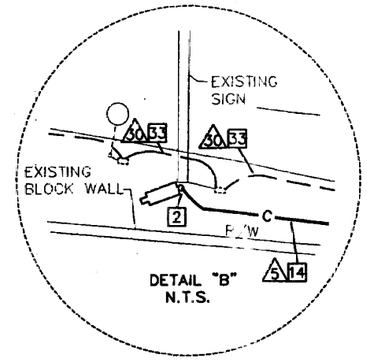
8-31-92
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. KWAK
No. 10991
Exp. 5/30/95
ELECTRICAL
STATE OF CALIFORNIA

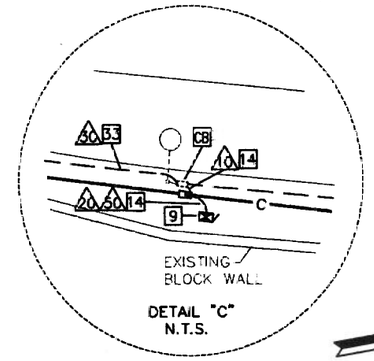
NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA. 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



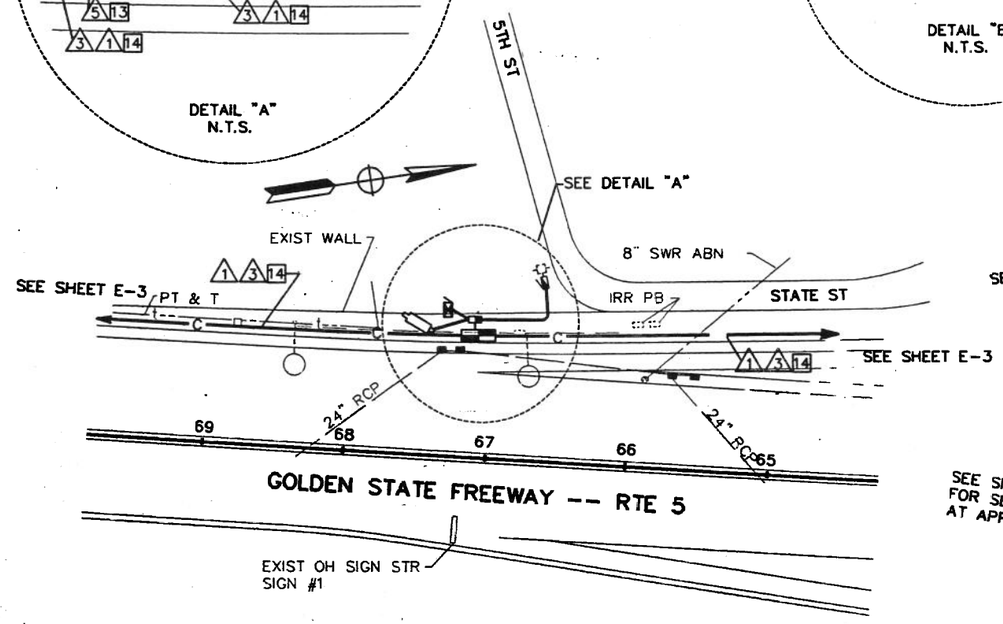
DETAIL "A"
N.T.S.



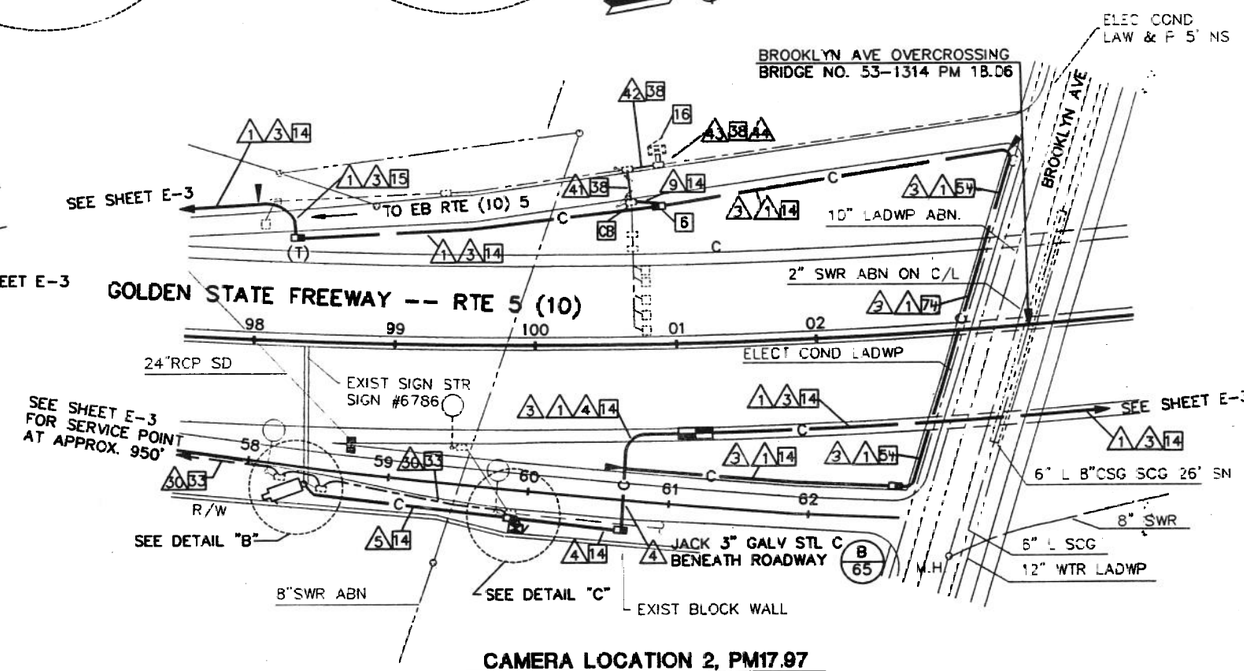
DETAIL "B"
N.T.S.



DETAIL "C"
N.T.S.



CAMERA LOCATION 1, PM17.22



CAMERA LOCATION 2, PM17.97

CONDUCTOR SCHEDULE CAMERA LOCATION 1

CONDUCTOR TYPE	FUNCTION	1	3	4	5	10	20	50
50P22 CABLE	PHONE LINES	1						
6P19 CABLE	PHONE LINES			1			1	
48SMFO CABLE	MUX VID/DATA	1						
8MMFO CABLE	SHORT HAUL VIDEO	1						
2MMFO B/O CABLE	SHORT HAUL VIDEO			1			1	
RG-6A/U COAX	BASEBAND VIDEO				1		1	
27C18 CABLE	CONTROL				1		1	
#8	POWER					2		2
#8	GROUND				1	1		2
CONDUIT	SIZE	4" (N)	4" (N)	3" (N)	3" (N)	2" (N)	3" (N)	3" (N)

CONDUCTOR SCHEDULE CAMERA LOCATION 2

CONDUCTOR TYPE	FUNCTION	1	3	4	5	9	11	17	20	30	41	42	43	44	50
50P22 CABLE	PHONE LINES	1						1							
6P19 CABLE	PHONE LINES			1					1						
12P22 CABLE	PHONE LINES					1		1			1(N)	1(N)	1(N)		
48SMFO CABLE	MUX VID/DATA	1						1							
8MMFO CABLE	SHORT HAUL VIDEO	1						1							
2MMFO B/O CABLE	SHORT HAUL VIDEO			1					1						
RG-6A/U COAX	BASEBAND VIDEO				1				1						
27C18 CABLE	CONTROL				1				1						
#4	POWER						2			2(N)					2
#6 EXIST										4					
2#14 DLC (EXIST)	COUNT DETECTOR										5	6	6		
2#14 DLC (EXIST)	DEMARD DETECTOR										1	2	2		
2#14 DLC (EXIST)	PASSAGE DETECTOR										1	2	2		
#14 (EXIST)	SIGNAL										3	6		6	
#14 (EXIST)	SPARES										3	6		6	
#10 (EXIST)	SIGNAL COMMON											1		1	
#8 (EXIST)	SIGNAL SERVICE													2	
2#14 (EXIST)	QUEUE DETECTOR												2		
#8	GROUND				1		1		1						2
CONDUIT	SIZE	4" (N)	4" (N)	3" (N)	3" (N)	2" (N)	2" (N)	4" (N)	3" (N)	1 1/2	2"	2"	2-2 1/2"	2 1/2	3" (N)

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY.
SEE SHEET E-1 FOR LEGEND AND GENERAL NOTES

CCTV AND COMMUNICATIONS SYSTEM LOCATIONS 1 AND 2

SCALE: 1"= 50'

E-37

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

11663E37.DWG WES 05/15/92

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07387 EA 116634

AS-BUILT FOR EA

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,50.J	23	53

Joseph A. Kunde 3/23/92
REGISTERED TRAFFIC ELECTRICAL ENGINEER Date

8-31-92
PLANS APPROVAL DATE

JOSEPH A. KUNDE No. 1099 Exp. 6-30-93 ELECTRICAL

NATIONAL ENGINEERING TECHNOLOGY
18700 VALLEY VIEW AVE., SUITE 250
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATO, MITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC
CONTROL DESIGN SYSTEMS

PM 16.9/26.70

As-Built For EA 305500

PROJECT NOTES

1. INSTALL TYPE III-RF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION
2. INSTALL CAMERA POLE (TYPE 15) ON EXISTING SIGN STRUCTURE POLE. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
3. INSTALL CAMERA POLE (TYPE 30) AND FOUNDATION. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
4. INSTALL CAMERA POLE (TYPE 45) AND FOUNDATION. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
5. INSTALL CAMERA POLE (TYPE 45) AND FOUNDATION. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
6. INSTALL NO 5(T) PB (MODIFIED) WITH TWISTED PAIR SPLICE CLOSURE. SEE DETAIL B, SHEET E-69
7. INSTALL TYPE 334-TV CABINETS (2) ON NEW FOUNDATION. CABINETS TO INCLUDE CAMERA CONTROL RECEIVER, EQUIPMENT AT DATA NODE AND EQUIPMENT AT VIDEO NODE. SEE DETAIL B, SHEET E-74.
8. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION; CABINET TO INCLUDE CAMERA CONTROL RECEIVER, VIDEO TRANSMITTER AND VIDEO REPEATER. SEE DETAIL A, SHEET E-74.
9. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION; CABINET TO INCLUDE CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE DETAIL A, SHEET E-73.
10. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION; CABINET TO INCLUDE CAMERA CONTROL RECEIVER, VIDEO TRANSMITTER AND EQUIPMENT AT DATA NODE. SEE DETAIL C, SHEET E-73.
11. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION. CABINETS TO INCLUDE CAMERA CONTROL RECEIVER AND EQUIPMENT AT VIDEO NODE. SEE DETAIL B, SHEET E-73.
12. JACK 4" GALVANIZED STEEL CONDUIT BENEATH ROADWAY. SEE DETAIL B, SHEET E-65.
13. INSTALL CONDUIT(S) IN 6" WIDE TRENCH IN DIRT OFF SHOULDER, WITHIN 10' OF EDGE OF SHOULDER. SEE SHEETS E-61 AND E-64 FOR DETAILS.
14. INSTALL CONDUIT(S) IN 6" WIDE TRENCH IN ASPHALT SHOULDER, MAINTAINING 4' MINIMUM DISTANCE FROM EDGE OF TRAVELWAY. SEE SHEETS E-62 AND E-64 FOR DETAILS.
15. JACK TWO 4" GALVANIZED STEEL CONDUITS BENEATH ROADWAY. SEE DETAIL C, SHEET E-65.
16. INSTALL COMMUNICATIONS TERMINAL BLOCK AND TELEPHONE BRIDGE IN EXISTING CONTROLLER CABINET. SEE SHEET E-71 FOR DETAILS.
17. PRUNE PLANTS AFTER CAMERA IS INSTALLED AND OPERATING. ENGINEER TO VERIFY THAT FINAL VIEW IS UNOBSCURED.
18. INSTALL BD-3 PEDESTAL FOR COMMUNICATIONS. SEE SHEET E-72 FOR DETAILS.
19. INSTALL CONDUIT(S) IN 6" WIDE SAWCUT TRENCH IN CONCRETE SIDEWALK. MAINTAINING 4' MINIMUM DISTANCE FROM EDGE OF TRAVELWAY. SEE SHEETS E-63 AND E-64 FOR DETAILS.
28. INSTALL 3" STL CONDUIT. ELECTRIC UTILITY COMPANY TO INSTALL 3 #2 CONDUCTORS
29. ELECTRIC UTILITY COMPANY TO INSTALL METER.
30. INSTALL 3" CONDUIT TYPE H SERVICE RISER ON POWER POLE
31. INSTALL 240V/120V STEP DOWN TRANSFORMER IN PULL BOX.
32. JACK 2" GALVANIZED STEEL CONDUIT BENEATH ROADWAY. SEE DETAIL A, SHEET E-65
33. ADD SERVICE (AND COMMUNICATIONS) CONDUCTORS IN EXISTING CONDUIT.
34. INSTALL 15A, 120V CIRCUIT BREAKER FOR CAMERA AND TYPE 334-TV CABINET.
35. REMOVE EXISTING SERVICE RISER FROM POWER POLE
36. INSTALL 20A, 120V CIRCUIT BREAKER FOR CONTROLLER CABINET.
37. INSTALL 2 15A, 120V CIRCUIT BREAKERS FOR CAMERAS AND TYPE 334-TV CABINETS.
38. ADD COMMUNICATIONS CABLE(S) TO EXISTING CONDUIT
39. INSTALL 15A, 240V CIRCUIT BREAKER FOR CAMERA AND TYPE 334-TV CABINET
40. INSTALL 40A, 120V CIRCUIT BREAKER FOR CONTROLLER CABINET
41. INSTALL 20A, 120V CIRCUIT BREAKER FOR CONTROLLER CABINET.
42. INSTALL 40A, 240V CIRCUIT BREAKER FOR FREEWAY LIGHTING.
43. INSTALL 40A, 240V CIRCUIT BREAKER FOR FREEWAY SIGN(S).
51. ATTACH RISER CONDUIT TO FACE OF ABUTMENT WALL WITH TWO-HOLE PIPE STRAPS. LOCATE IN LINE WITH CONDUIT LOCATION ON STRUCTURE. SEE DETAIL A, SHEET E-87.
52. ATTACH RISER CONDUIT TO FACE OF COLUMN OR PIER WALL WITH TWO-HOLE PIPE STRAPS. LOCATE RISER IN LINE WITH CONDUIT LOCATION ON STRUCTURE. SEE DETAIL B, SHEET E-88
53. ATTACH RISER CONDUIT TO FACE OF WING WALL AND/OR ABUTMENT WALL WITH TWO-HOLE PIPE STRAPS. LOCATE IN LINE WITH CONDUIT LOCATION ON STRUCTURE. SEE DETAIL C, SHEET E-88.
54. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL R, SHEET E-91.
55. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL J, SHEET E-91.
56. CORE HOLE IN CONCRETE WALL AT LOCATION REQUIRED BY PLACEMENT OF CONDUIT ON STRUCTURE. DIAMETER OF CORED HOLE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT PLUS 1/2 INCH. SEE DETAIL D, SHEET E-89
57. INSTALL CONDUIT(S) IN NEW CONCRETE RAIL AT FACE OF TYPE 9 RAIL ON WING WALL. TRANSITION CONDUIT(S) FROM NEW CONCRETE SECTION TO TRENCH IN BACKFILL NEAR END OF WING WALL. SEE RAIL MODIFICATIONS SAN FERNANDO ROAD OVERHEAD BARRIER DETAILS.
58. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL E, SHEET E-90.
59. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL P, SHEET E-90.
60. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL L, SHEET E-90.
61. ATTACH CONDUIT WITH PIPE HANGER STRAPS TO BOTTOM SOFFIT OF BRIDGE DECK SLAB IN INTERIOR BAY. LOCATE CONDUIT TO CLEAR BRACING. SEE DETAIL I, SHEET E-92.
66. ATTACH CONDUIT TO OUTSIDE OF BRIDGE RAIL. INSTALL COVER OVER CONDUIT. SEE DETAIL O, SHEET E-93.
68. DRILL AND BOND REINFORCING STEEL IN HORIZONTAL SURFACE BEHIND TYPE 27 RAIL. PLACE CONDUIT(S) ON HORIZONTAL OR VERTICAL POSITION TO CLEAR EXISTING FACILITIES. ENCASE CONDUITS IN CONCRETE. SEE DETAIL N, SHEET E-92.
70. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL F, SHEET E-90.
71. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN UTILITY VOID AND REPLACE CONCRETE. SEE DETAIL G, SHEET E-90.
72. ATTACH CONDUIT WITH ONE-HOLE PIPE STRAPS TO OUTSIDE OF RAIL POST. LOCATE CONDUIT AT SAME ELEVATION AS BOTTOM CHANNEL OF RAIL. SEE DETAIL H, SHEET E-90.
73. CONSTRUCT TYPE 25M-9 BARRIER AT FACE OF EXISTING TYPE 9 BARRIER RAIL. INSTALL CONDUIT IN NEWLY CONSTRUCTED RAIL. SEE MODIFICATIONS SAN FERNANDO ROAD OVERHEAD BARRIER DETAILS
74. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL M, SHEET E-91.
75. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL K, SHEET E-89.
76. SAW CUT AND TRENCH IN CONCRETE SIDEWALK. INSTALL CONDUIT(S) IN TRENCH AND REPLACE CONCRETE. SEE DETAIL S, SHEET E-89
79. CONNECT NEWLY INSTALLED CONDUIT TO EXISTING CONDUIT.

GENERAL NOTES:

1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON PLAN ARE OBTAINED FROM OWNER'S RECORDS AND/OR OWNERS PLANS.
2. THE LOCATION OF UNDERGROUND FACILITIES SHOWN ON PLAN ARE APPROXIMATE.
3. **BLANK**
4. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, EXISTING SERVICE ENCLOSURES, POWER POLES AND EXISTING DEMARCATION BOXES ARE APPROXIMATE.
5. THE LOCATIONS OF PROPOSED CCTV POLES AND TOWERS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO PLACEMENT OF FOUNDATIONS.
6. THE LOCATIONS OF PROPOSED CABINETS, PULL BOXES, SPLICE VAULTS AND DEMARCATION BOXES ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
7. TYPE 334-TV CABINET DOOR SWING SHOWN ON NEW CABINETS INDICATES FRONT DOOR.
8. EXISTING DETECTOR LOOPS AND CONDUITS ARE SHOWN IN THE VICINITY OF PROPOSED CONDUIT TRENCHES. CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO EXISTING CONDUITS. TRENCHING WITH HAND TOOLS MAY BE REQUIRED.
9. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL PROVIDE 72 HOUR ADVANCED WRITTEN NOTICE TO ALL AGENCIES CONCERNED.
10. FOR SUPPLEMENTAL LEGEND, SEE STANDARD PLANS ES-1A AND ES-1B
11. UNLESS OTHERWISE NOTED, ALL CONDUIT BENDS SHALL BE 4 FOOT RADIUS FACTORY BENDS.
12. ALL CONDUITS IN CONDUCTOR SCHEDULE TABLES ARE EXISTING UNLESS MARKED (N) INDICATING PROPOSED NEW CONDUIT. ALL CONDUCTORS IN PROPOSED NEW CONDUITS ARE NEW. ALL CONDUCTORS IN EXISTING CONDUITS ARE EXISTING UNLESS MARKED (N).
13. PVC, WHERE CALLED OUT IN THESE PLANS, SHALL MEAN RIGID NON-METALLIC CONDUIT AS DEFINED IN THE STANDARD SPECIFICATIONS.
14. ALL NO. 5 AND NO. 6 PULLBOXES ARE THE TRAFFIC TYPE WHETHER OR NOT THE PULLBOX IS IDENTIFIED WITH A (T) MODIFIER.

LEGEND

PROPOSED CCTV CAMERA
SEE SHEET E-75 & STRUCTURES SHEETS FOR DETAILS

PROPOSED SPLICE VAULT
SEE SHEET E-70 FOR DETAILS

(T)
OR
PROPOSED NO. 6(T) PULLBOX (MODIFIED)
SEE SHEETS E-65 THROUGH E-69 FOR DETAILS

PROPOSED COMMUNICATIONS CONDUIT(S)

PROPOSED SERVICE CONDUIT

13 14
CONDUIT LINE DELIMITER
FOR CONSTRUCTION NOTES

EXISTING DETECTOR LOOP (SHEETS E-2 THROUGH E-36)

B / 75
DETAIL CALLOUT FOR
DETAIL B ON SHEET E-75

EXISTING SIGN SUPPORT STRUCTURE

PROPOSED NO. 5(T) PULLBOX ON TRUNK LINE SEE DETAIL A, SHEET E-65, AND DETAIL C, SHEET E-69

PROPOSED TYPE 334-TV CABINET

AS BUILT
Contract No. 07-116634
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

LEGEND AND NOTES

E-1

CALCULATED/DESIGNED BY | CHECKED BY | DATE REVISED BY | DATE REVISED | JR | 7-20 | JR | 7-2 | JR | 8-22

DESIGN OFFICE
GLORIA GIANNINE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

8-31-92

E1.DWG NE

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

DN 07787 | EA 116634

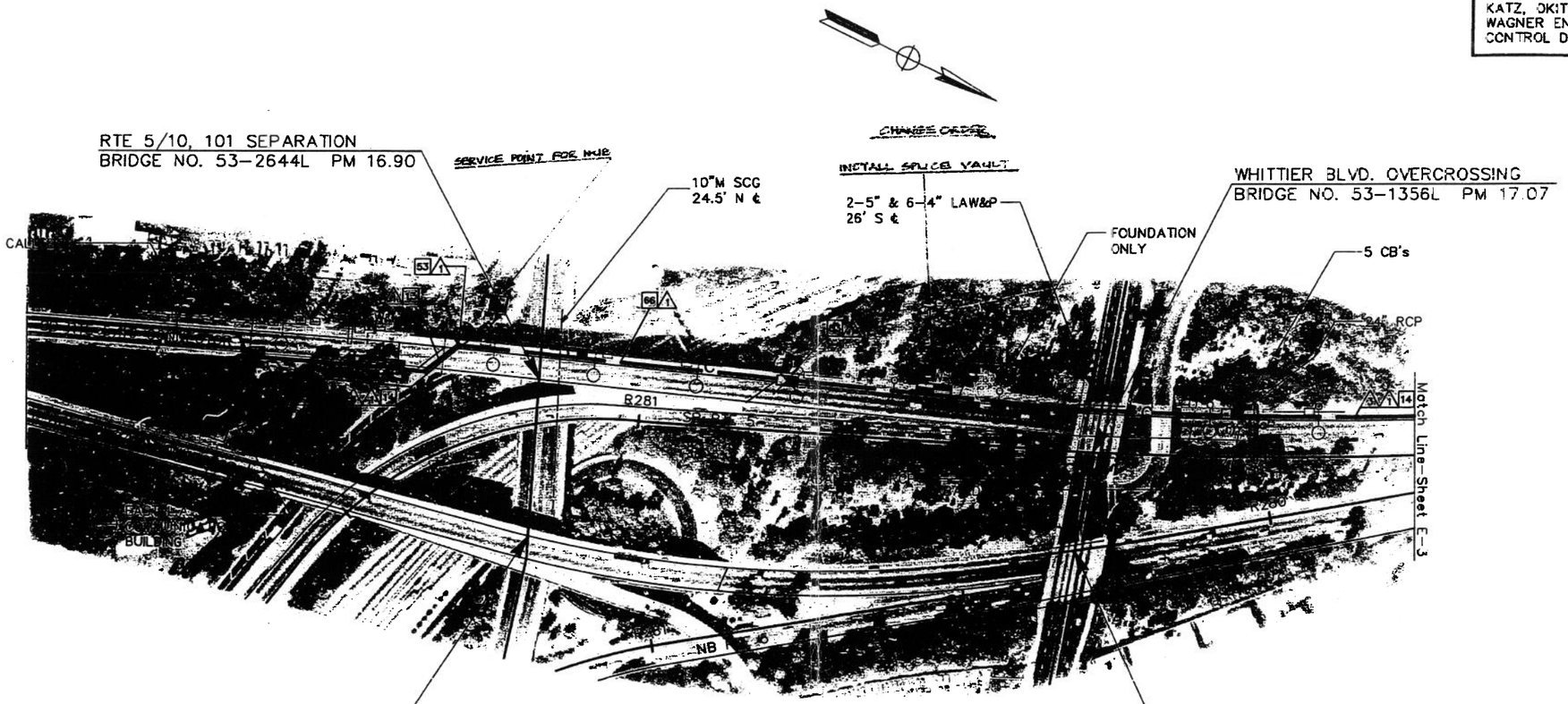
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,50.1	24	153

REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER REGISTERED JOSEPH A. KWAK No. 10991 Exp. 6/30/95 STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
15700 VALLEY VIEW AVE., SUITE 250
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



CONDUCTOR SCHEDULE			
CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2
50P22 CABLE	PHONE LINES	1	
48SMFO CABLE	MUX VID/DATA	1	
8MMFO CABLE	SHORT HAUL VIDEO	1	
	CONDUIT SIZE	4" (N)	4" (N)

AS BUILT
Contract No. 07- 116634
Resident Engineer: Hassan Mannaa
Completion Date June 13, 1997

APPROX. SCALE: 1"=100'
REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-2

DESIGN OFFICE	GLORIA GWYNNE	CALCULATED/DESIGNED BY	JK
		CHECKED BY	JK
		DATE	3/23
		REVISED BY	JK
		DATE REVISED	5/12

CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
STA
N 05/15/92
1*563E02.DWG

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

FORM DC-OE-92-PF (REV. 3/88)

CU 07387 EA 116634

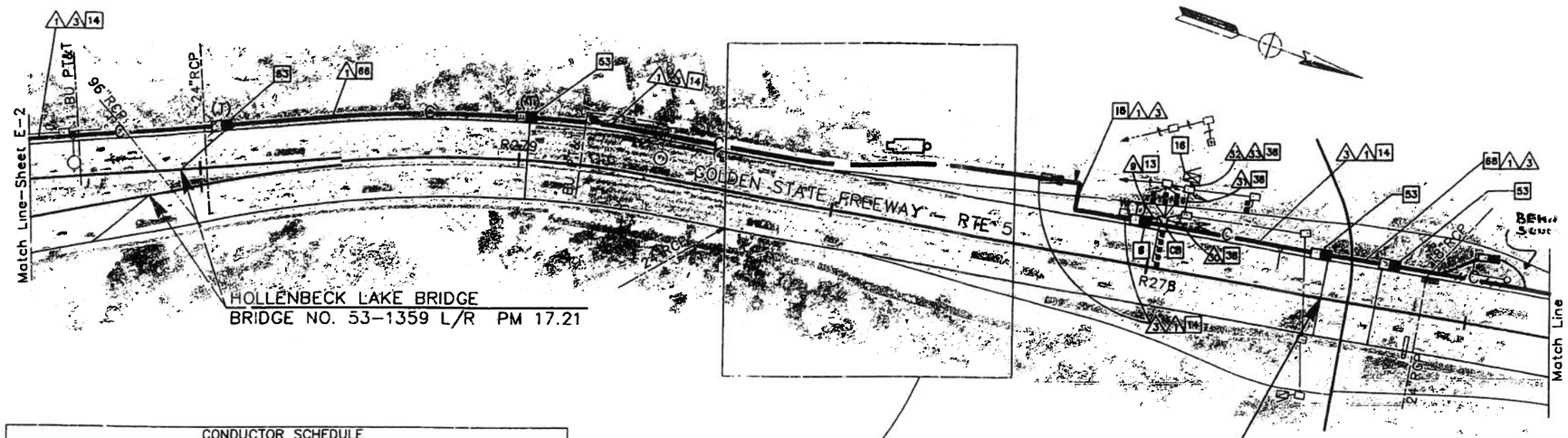
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,SOJ	25	153

REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSEPH A. KWAK No. 10991 Exp. 6/30/95 STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
15700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



SEE SHEET E-37
CAMERA LOCATION 1
P.M. 17.22 DETAIL

FOURTH ST. UNDERCROSSING
BRIDGE NO. 53-1304 PM 17.56

CONDUCTOR SCHEDULE										
CONDUCTOR TYPE	FUNCTION	RUN								
		1	3	9	9A	31	33	33	33	33
50P22 CABLE	PHONE LINES	1								
12P22 CABLE	PHONE LINES			1	1(N)	1(N)		1(N)		
48SMFO CABLE	MUX VID/DATA	1								
8MMFO CABLE	SHORT HAUL VIDEO	1								
#4	POWER								2(N)	2
#2	POWER									2
#8	GROUND									1
#8 EXIST.	RMS SERVICE					2	2			
2#12 EXIST.	DLC				7	7		12		
#14 EXIST.	RAMP METER				6	6	12			
#10 EXIST.	COMMON				1	1	1			
#12 EXIST.	T.D.C. SERVICE					2				
#18 EXIST.	SHIELDED TEL. CABLE							1		
#6 EXIST.	FWY. SIGNAL LIGHT.								4	
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2"	2½"	2½"	2½"	2½"	3" (N)

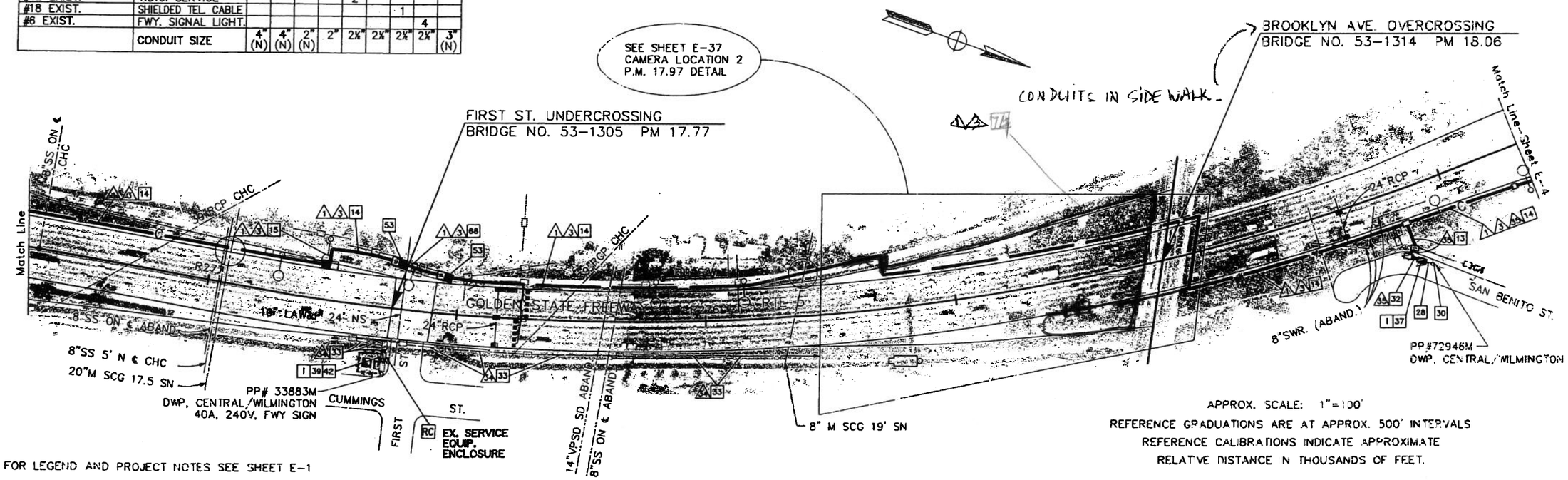
AS BUILT
Contract No. 07- 116634
Resident Engineer: Hassan Mannaa
Completion Date June 13, 1997

SEE SHEET E-37
CAMERA LOCATION 2
P.M. 17.97 DETAIL

FIRST ST. UNDERCROSSING
BRIDGE NO. 53-1305 PM 17.77

BROOKLYN AVE. OVERCROSSING
BRIDGE NO. 53-1314 PM 18.06

CONDUITS IN SIDE WALK



APPROX. SCALE: 1"=100'
REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-3

DATE	REVISED BY	DATE	REVISED BY
3/23	JK	5/22	JK

CALCULATED/DESIGNED BY JK
CHECKED BY

DESIGN OFFICE CHIEF
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

11863E03.DWG 05/14/92

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07387 EA 116634

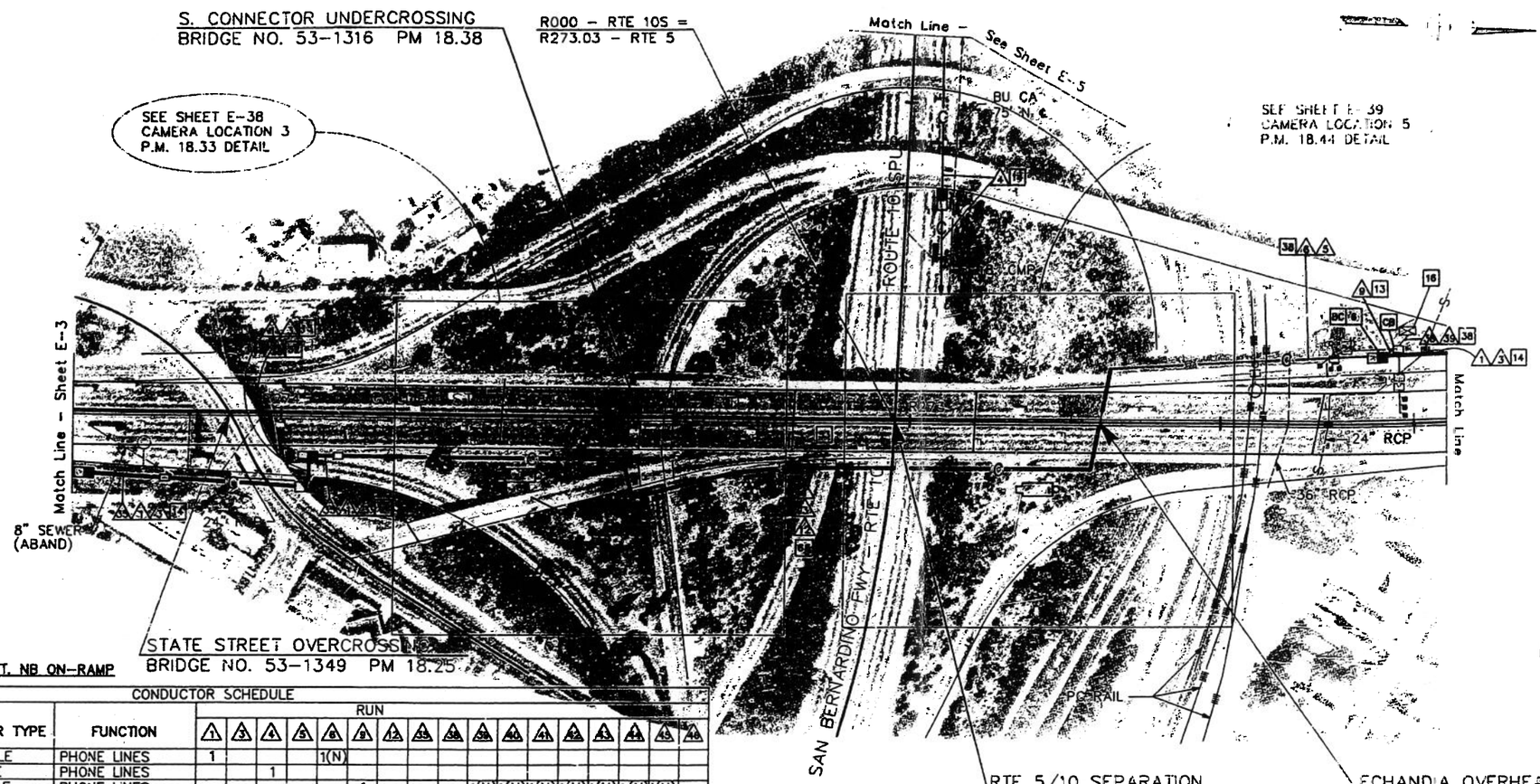
		16.9/46.2,50.1	26	153

Joseph A. Kwak
REGISTERED PROFESSIONAL ENGINEER

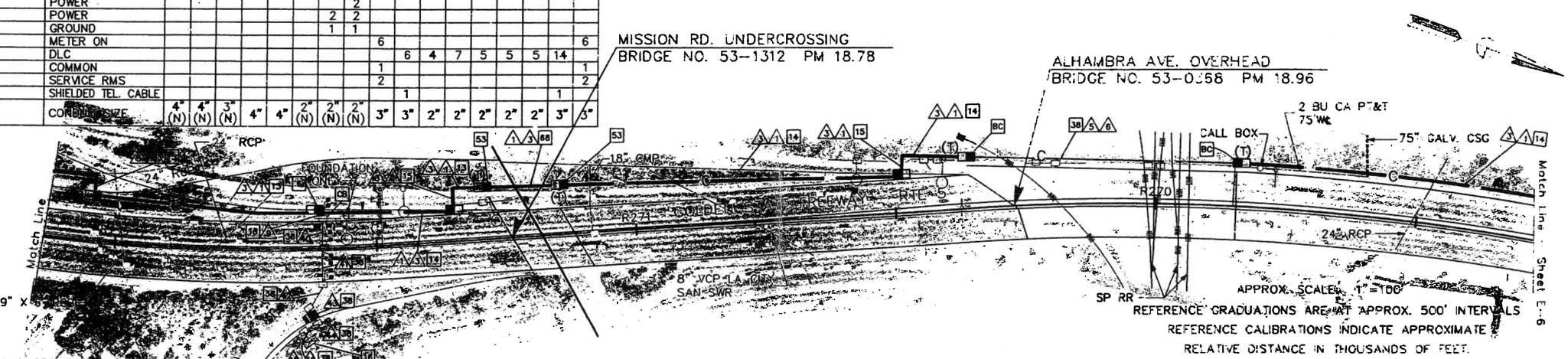
8-31-92
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER JOSEPH A. KWAK No. 10991 Exp. 6-30-95 STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



CONDUCTOR SCHEDULE																	
CONDUCTOR TYPE	FUNCTION	RUN 1	3	4	5	6	8	12	35	36	39	40	41	42	43	44	45	46
50P22 CABLE	PHONE LINES	1				1(N)												
6P19 CABLE	PHONE LINES			1														
12P22 CABLE	PHONE LINES						1				1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	
48SMFO CABLE	MUX VID/DATA	1				1(N)												
8MMFO CABLE	SHORT HAUL VIDEO	1				1(N)												
2MMFO B/O CABLE	SHORT HAUL VIDEO			1														
#4	POWER								2									
#2	POWER							2	2									
#8	GROUND							1	1									
#14 EXIST.	METER ON									6								6
#12 EXIST.	DLC										6	4	7	5	5	5	14	
#10 EXIST.	COMMON									1								1
#6 EXIST.	SERVICE RMS									2								2
#18 EXIST.	SHIELDED TEL. CABLE										1						1	
	CONDUIT SIZE	4" (N)	4" (N)	3" (N)	4"	4"	2" (N)	2" (N)	2" (N)	3"	3"	2"	2"	2"	2"	2"	3"	3"



FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

AS BUILT Contract No. 07- 116634
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-4

DATE	REVISED BY	DATE	REVISED BY
3/23	JK	5/24	JK

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

05/15/92
11663E04.DWG

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

DU 07387 EA 116634

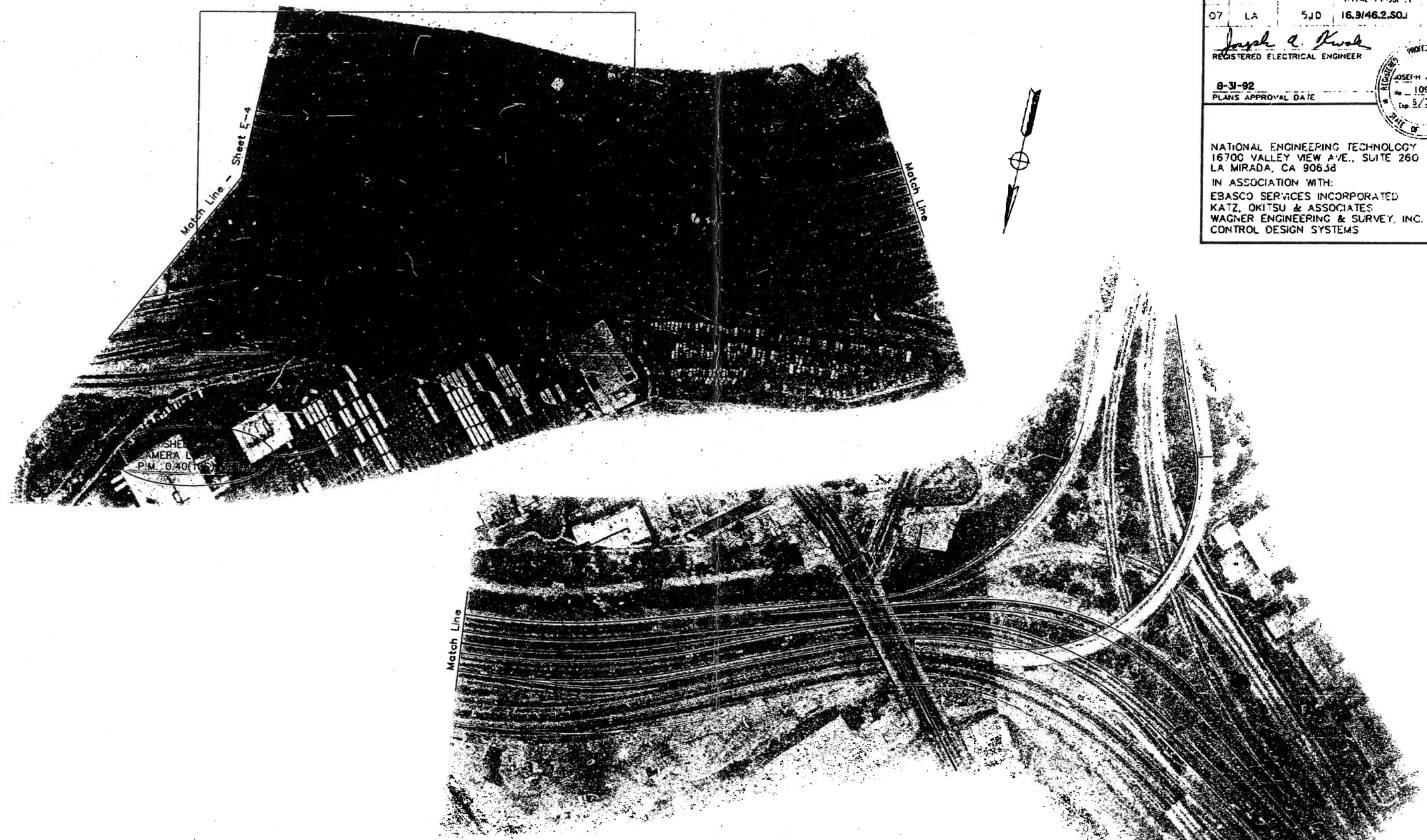
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,SOJ	27	153

Joseph A. Kwak
REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSEPH A. KWAK No. 10991 Exp. 5/30/95 STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



AS BUILT
Contract No. 07-116634
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

APPROXIMATE SCALE
REFERENCE GRADUATIONS ARE APPROXIMATE INTERVALS
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-5

CALCULATED/DESIGNED BY		DATE	REVISED BY
CHECKED BY	JK	3/23	DATE REVISED

DESIGN OVERSIGHT: GLORIA GWYNNE

CALIFORNIA - DEPARTMENT OF TRANSPORTATION

STATE

Caltrans

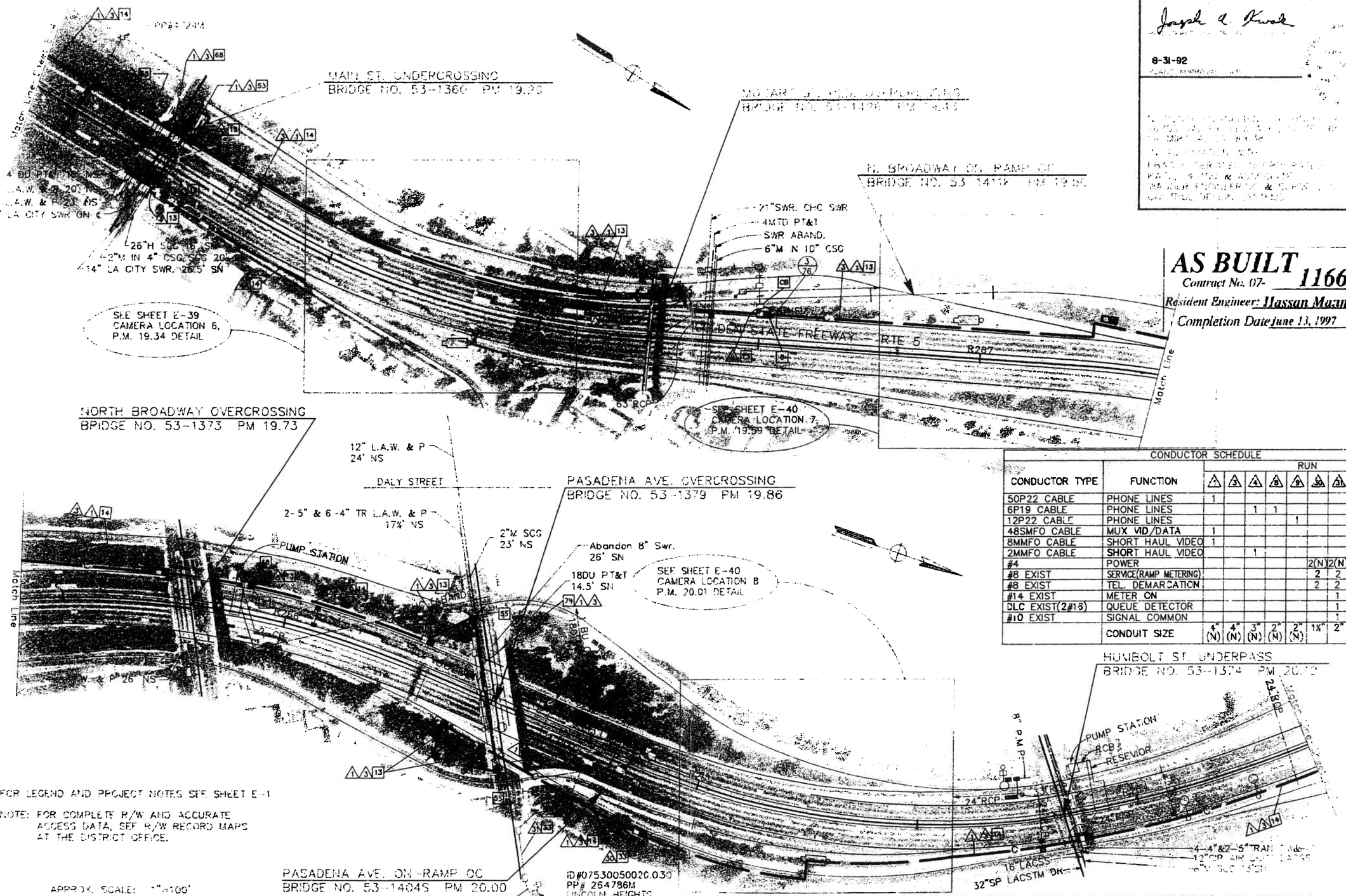
03/17/92

1:163E05.DWG

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07387 EA 116634



CONDUCTOR SCHEDULE								
		RUN						
CONDUCTOR TYPE	FUNCTION	1	3	4	8	9	30	31
50P22 CABLE	PHONE LINES	1						
6P19 CABLE	PHONE LINES			1	1			
12P22 CABLE	PHONE LINES					1		
48SMFO CABLE	MUX VID/DATA	1						
8MMFO CABLE	SHORT HAUL VIDEO	1						
2MMFO CABLE	SHORT HAUL VIDEO			1				
#4	POWER						2(N)	2(N)
#8 EXIST	SERVICE(RAMP METERING)						2	2
#8 EXIST	TEL. DEMARCATION						2	2
#14 EXIST	METER ON							1
DLC EXIST(2#16)	QUEUE DETECTOR							1
#10 EXIST	SIGNAL COMMON							1
	CONDUIT SIZE	4" (N)	4" (N)	3" (N)	2" (N)	2" (N)	1¼"	2"

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

APPROX. SCALE: 1"=100'

REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS

REFERENCE CALIBRATIONS ALONGATE APPROXIMATE RELATIVE DISTANCE IN THOUSANDS OF FEET.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONDUCTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-6

AS BUILT
Contract No. 07- 116634
Resident Engineer: Hassan Maanaa
Completion Date June 13, 1997

8-31-92

CALCULATED
DESIGNED BY
CHECKED BY JK
DATE REVISED BY
3/23 DATE REVISED 5/1

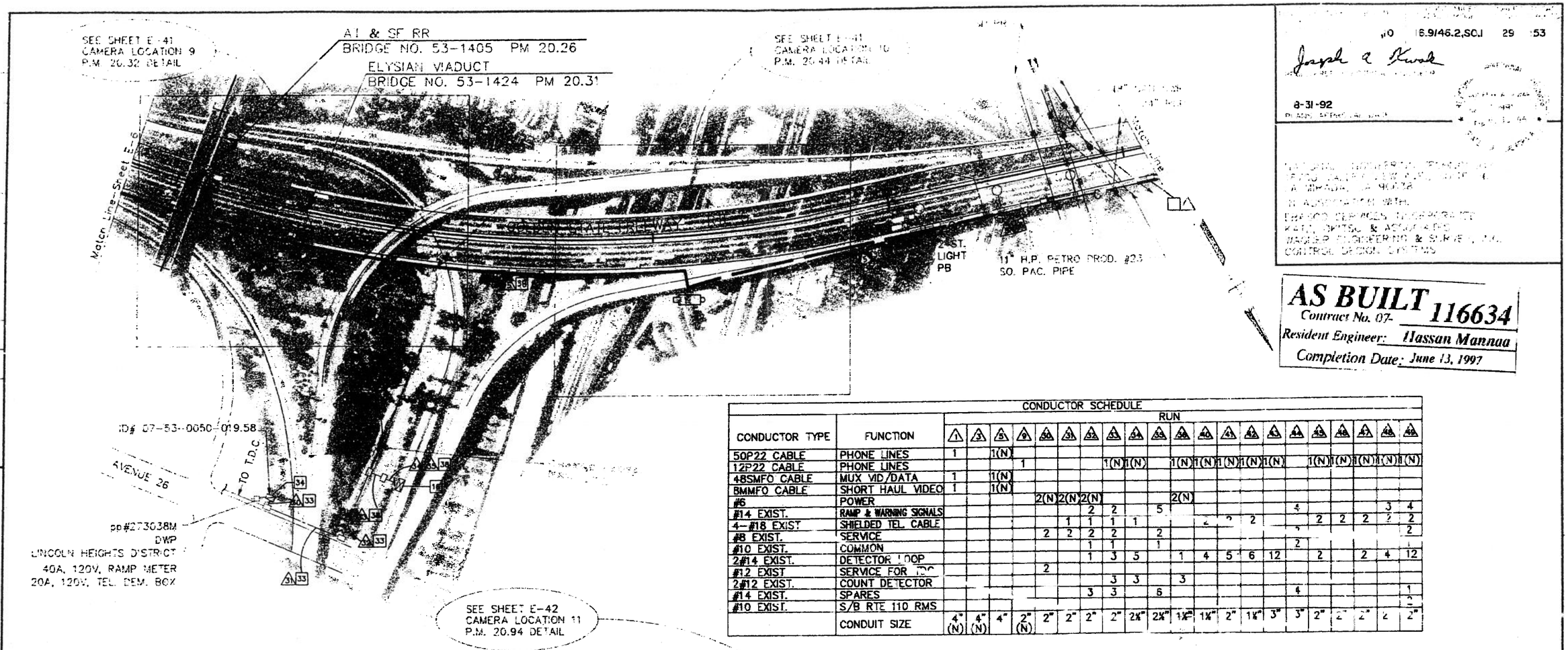
DESIGN OF HT
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

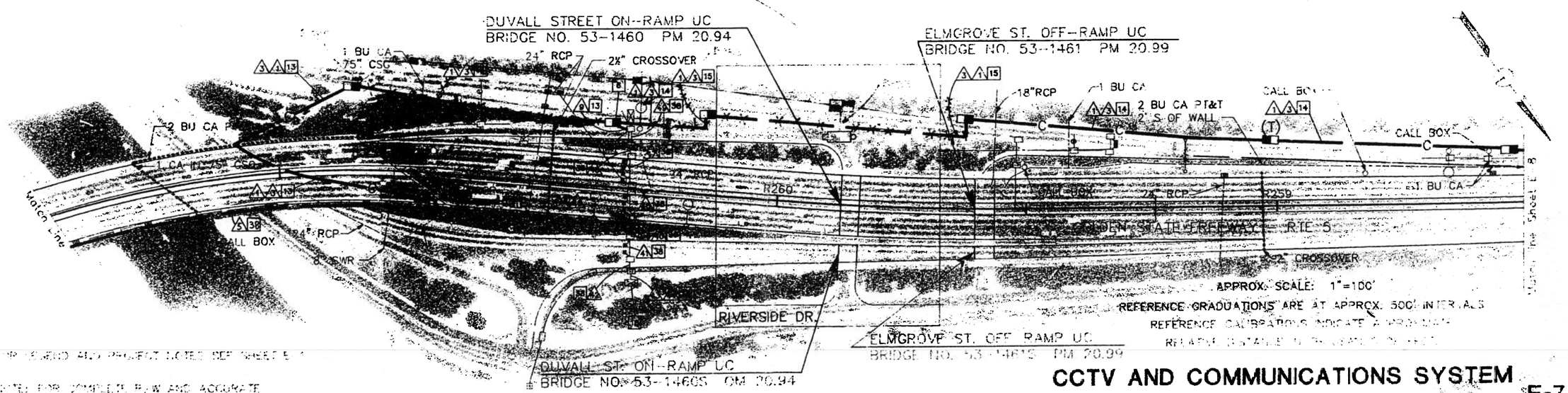
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

FORM DC-OE-92-P1 (REV 3/88)



CONDUCTOR TYPE	FUNCTION	RUN 1	3	5	9	3A	3B	3C	3D	3E	3F	3G	4	4A	4B	4C	4D	4E	4F	4G	4H
50P22 CABLE	PHONE LINES	1		1(N)																	
12P22 CABLE	PHONE LINES				1				1(N)	1(N)		1(N)	1(N)	1(N)	1(N)	1(N)		1(N)	1(N)	1(N)	1(N)	1(N)
48SMFO CABLE	MUX VID/DATA	1		1(N)																	
8MMFO CABLE	SHORT HAUL VIDEO	1		1(N)																	
#6	POWER					2(N)	2(N)	2(N)				2(N)									
#14 EXIST.	RAMP & WARNING SIGNALS							2	2		5						4				3
4-#18 EXIST	SHIELDED TEL. CABLE						1	1	1	1			2	2	2			2	2	2	2
#8 EXIST.	SERVICE					2	2	2	2		2										
#10 EXIST.	COMMON							1	1		1						2				
2#14 EXIST.	DETECTOR LOOP							1	3	5		1	4	5	6	12		2		2	4
#12 EXIST	SERVICE FOR TDC					2															
2#12 EXIST.	COUNT DETECTOR								3	3		3									
#14 EXIST.	SPARES							3	3		6						4				
#10 EXIST.	S/B RTE 110 RMS																				
	CONDUIT SIZE	4" (N)	4" (N)	4"	2" (N)	2"	2"	2"	2"	2½"	2½"	1½"	1½"	2"	1½"	3"	3"	2"	2"	2"	2

RUN	4I	4J	4K	4L	4M	4N	4O	4P
50P22 CABLE								
12P22 CABLE	1(N)	1(N)	1(N)					
48SMFO CABLE								
8MMFO CABLE								
#6								
#14 EXIST.								
4-#18 EXIST	2	2	2	2	2	2	2	2
#8 EXIST.								
#10 EXIST.								
2#14 EXIST.	4	4	4	12	12	12	12	12
#12 EXIST								
2#12 EXIST.								
#14 EXIST.								
#10 EXIST.								
CONDUIT SIZE	2"	2"	2"	2"	2"	2"	2"	2"



NOTE: FOR COMPLETE PLAN AND ACCURATE ACCESS DATA, SEE RTE 5 REVISED MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONDUCTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-7

AS BUILT
Contract No. 07-116634
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

Joseph A. Kurek
8-31-92

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT: GLORIA GWYNNE

CALCULATED BY / DESIGNED BY / CHECKED BY: JK 3/23 DATE PE. SEED

DATE / REVISED BY

05 14 92

STATE

Caltrans

,10 ;6.9/46.2,SO.; 30 153

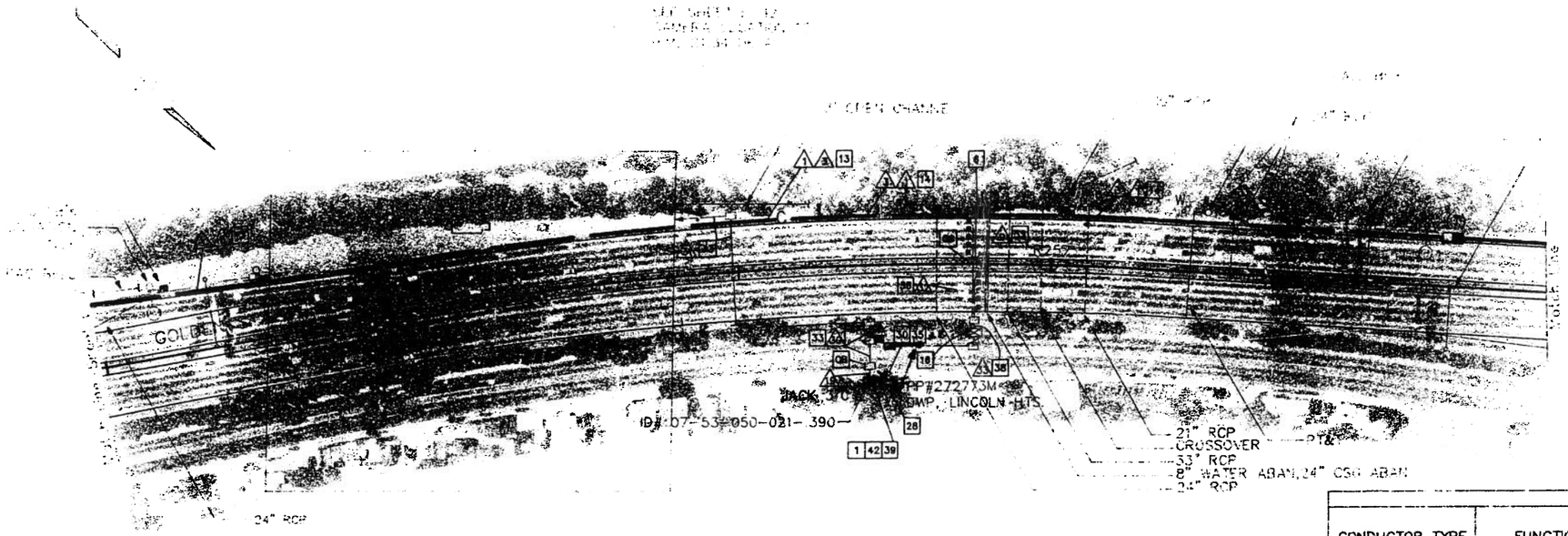
Joseph L Kwak

9-31-92

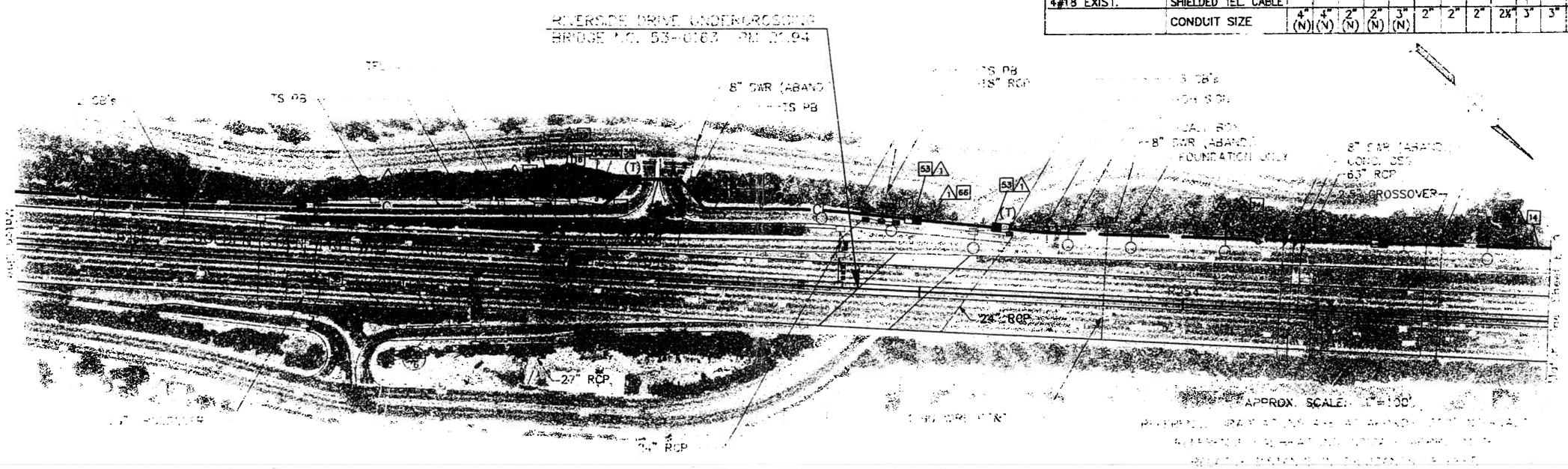
AS BUILT Contract No. 07- 116634

Resident Engineer: Hassan Mansour

Completion Date: June 13, 1997



CONDUCTOR SCHEDULE														
		RUN												
CONDUCTOR TYPE	FUNCTION	1	3	9	18	19	30	31	32	33	34	35	36	37
50P22 CABLE	PHONE LINES	1												
12P22 CABLE	PHONE LINES			1	2				1(N)	1(N)	1(N)		1(N)	1(N)
48SMFO CABLE	MUX VID/DATA	1												
8MMFO CABLE	SHORT HAUL VIDEO	1												
#8	POWER					2	2(N)	2(N)						
#8	GROUND					1								
#6 EXIST.	FWY LIGHTING					2	2	2						
DLC EXIST.	DETECTOR LOOP								5	10	10			
#8 EXIST.	RMS SERVICE									2		2		
#14 EXIST.	RAMP METER											6		
#10 EXIST.	COMMON											1		
4#18 EXIST.	SHIELDED TEL. CABLE										1		1	1
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2" (N)	3" (N)	2"	2"	2"	2X"	3"	3"	2"	3"



CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-8

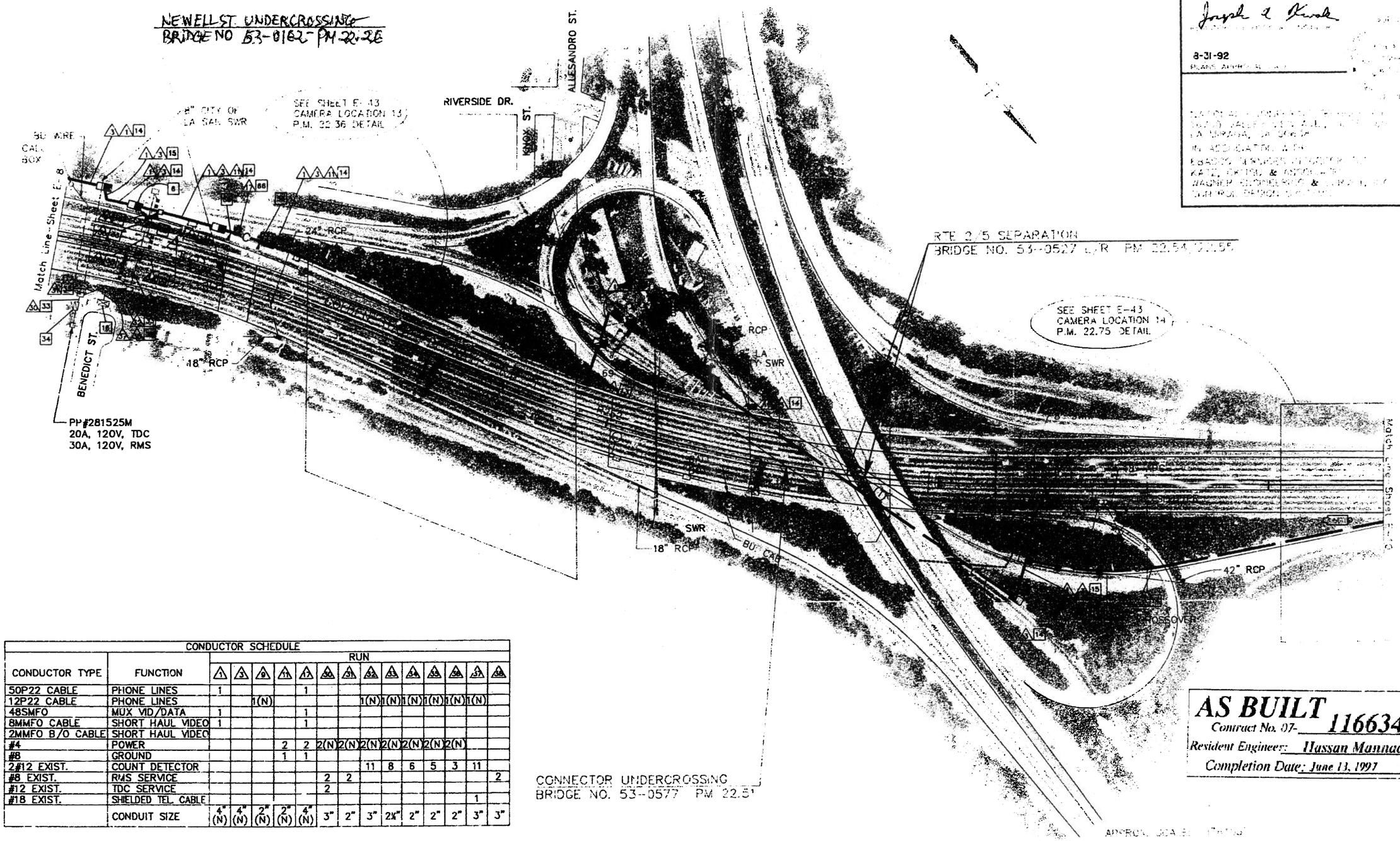
DESIGN OVERSIGHT GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

JK 3/23

NEWELL ST. UNDERCROSSING
BRIDGE NO 53-0162 PM 22.26



CONDUCTOR SCHEDULE															
		RUN													
CONDUCTOR TYPE	FUNCTION	1	3	9	11	17	30	31	32	33	34	35	36	37	38
50P22 CABLE	PHONE LINES	1				1									
12P22 CABLE	PHONE LINES			1(N)					1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	
48SMFO	MUX VID/DATA	1				1									
8MMFO CABLE	SHORT HAUL VIDEO	1				1									
2MMFO B/O CABLE	SHORT HAUL VIDEO														
#4	POWER				2	2	2(N)	2(N)	2(N)	2(N)	2(N)	2(N)	2(N)		
#8	GROUND				1	1									
2#12 EXIST.	COUNT DETECTOR								11	8	6	5	3	11	
#8 EXIST.	RMS SERVICE						2	2							2
#12 EXIST.	TDC SERVICE						2								
#18 EXIST.	SHIELDED TEL. CABLE													1	
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2" (N)	4" (N)	3"	2"	3"	2½"	2"	2"	2"	3"	3"

AS BUILT
Contract No. 07-116634
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

APPROXIMATE LOCATION
REFERENCE GRADUATIONS ARE AT APPROXIMATE RIGHT ANGLES
REFERENCE CALIPPATHS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

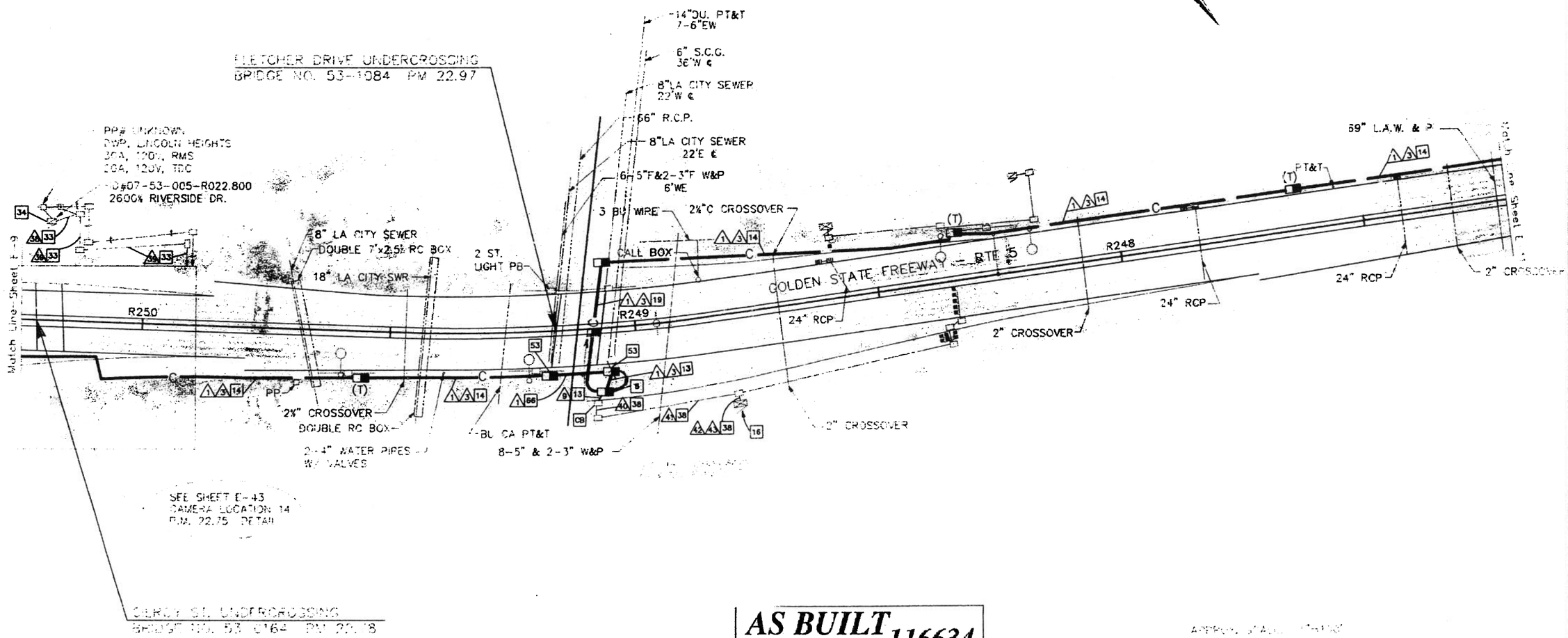
NOTE: THIS PLAN ACCURATE FOR ELECTRICAL AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN OVER: GLORIA GWYNNE
CALCULATED/DESIGNED BY
CHECKED BY JK
DATE REVISED 3/23
DATE REVISED

CONDUCTOR SCHEDULE										
		RUN								
CONDUCTOR TYPE	FUNCTION	1	3	9	4a	3a	4a	4b	4c	4d
50P22 CABLE	PHONE LINES	1								
12P22 CABLE	PHONE LINES			1			1(N)	1(N)	1(N)	
48SMFO CABLE	MUX VID/DATA	1								
8MMFO CABLE	SHORT HAUL VIDEO	1								
#4	POWER				2(N)	2(N)				
#8 EXIST.	TDC SERVICE						2			
#8 EXIST.	SERVICE RMS				2	2	2	2		2
#12 EXIST.	SERVICE TDC				2					
#14 EXIST.	RAMP METER						1	1		4
#10 EXIST.	COMMON						1	1		2
2#14 EXIST.	DLC						2	4	13	
#14 EXIST.	SPARES						1			4
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2"	2"	2"	2"	3"	3"



AS BUILT 116634
Contract No. 07-
Resident Engineer: Hassan Mannaa
Completion Date: June 13, 1997

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-10

8-31-92
PLANS APPROVAL DATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN OVE HT
GLORIA GWYNNE
CALCULATED / DESIGNED BY
CHECKED BY JK 3/23 DATE REVISED
DATE REVISED BY

AS-Built FOR EA

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/18.5, 50.0/31.1	67	159

Teri Parola 9/18/95
REGISTERED ELECTRICAL ENGINEER (Date)

12-30-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TERI J. PAROLA No. 14898 Exp. 6/30/99 ELECTRICAL STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
14320 FIRESTONE BLVD., SUITE 100
LA MIRADA, CA 90638

IN ASSOCIATION WITH:

KAWES AND ASSOCIATES, INC.

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

RTES. 16.9 / 18.5

AS-Built For EA 30550

TABLE OF CONTENTS-ELECTRICAL PLANS

E-1,E-2	CCTV AND COMMUNICATION SYSTEM (LEGEND AND NOTES)
E-3-E-30	LOOP DETECTOR AND COMMUNICATION SYSTEM ROUTING
E-31-E-46	CCTV CAMERA LOCATIONS
E-47	CMS LOCATION
E-48	HAR LOCATION
E-49	TMS AND AVC LOCATION
E-50-E-54	CCTV AND COMMUNICATION SYSTEM (SCHEMATICS)
E-55	TRENCH IN SOIL DETAILS
E-56	TRENCH IN PAVEMENT DETAILS
E-57	JACKED CONDUIT
E-58	ELECTRICAL DIAGRAM FOR CCTV AND PAN/TILT UNIT
E-59	HAR ANTENNA DETAILS
E-60	HAR GROUNDING DETAILS
E-61	HAR SIGN DETAILS
E-62	COMMUNICATION PULL BOX
E-63	DETAILS FOR NO.5 AND COMMUNICATION PULL BOX
E-64	SPLICE VAULT DETAILS
E-65	MODEL 170 CONTROLLER INTERFACE
E-66	CMS CONTROLLER INTERFACE
E-67	CABINET DETAILS
E-68	334 CABINET LAYOUTS
E-69-E-70	CCTV AND COMMUNICATION SYSTEM DETAILS
E-71-E-75	CCTV AND COMMUNICATION SYSTEM (TWISTED PAIR ASSIGNMENT TABLE)
E-76	CCTV AND COMMUNICATION SYSTEM (FIBER ASSIGNMENTS)
E-77	DATA NODE CIRCUIT ASSIGNMENT TABLES
E-78	BRIDGING DIAGRAM
E-79	VIDEO NODE CIRCUIT ASSIGNMENT TABLE
E-80-E-82	CCTV AND COMMUNICATION SYSTEM (HUB EQUIPMENT LAYOUT)
E-83	CMS WIRING
E-84	AXLE SENSOR DETAILS
E-85-E-86	CCTV AND COMMUNICATION SYSTEM (ELECTRICAL QUANTITIES)

TABLE 1-CCTV WIRING

CONDUCTOR TYPE	FUNCTION	QTY
RG-6A/U	CAMERA VIDEO INTERFACE CABLE	1
9*18 CABLE	PAN/TILT CONTROL CABLE	1
12*8 CABLE	LENS CONTROL CABLE	1

ABBREVIATIONS

72SMFO	72 SINGLEMODE FIBER OPTIC CABLE
12SMFO	12 SINGLEMODE FIBER OPTIC CABLE
2SMFO B/O	2 SINGLEMODE FIBER OPTIC BREAKOUT CABLE
36SMFO	36 SINGLEMODE FIBER OPTIC CABLE
50P22	50 PAIR 22 AWG TWISTED PAIR CABLE
12P22	12 PAIR 22 AWG TWISTED PAIR CABLE
6P22	6 PAIR 22 AWG TWISTED PAIR CABLE
Ø	DIAMETER
AVC	AUTOMATIC VEHICLE CLASSIFICATION
BB	BASE BAND
B/O	BREAKOUT CABLE
CCR	CAMERA CONTROL RECEIVER
CCT	CAMERA CONTROL TRANSMITTER
CCTV	CLOSED CIRCUIT TELEVISION
CHAN *	CHANNEL NUMBER
CMS	CHANGEABLE MESSAGE SIGN
DCS	DIGITAL CROSS-CONNECT SWITCH
DEMARC	DEMARCATION
DEMUX	DEMULTIPLEXER
DIST	DISTRIBUTION
DLC	DETECTOR LOOP CABLE
DWP	DEPARTMENT OF WATER & POWER
FDF	FIBER DISTRIBUTION FRAME
FDU	FIBER DISTRIBUTION UNIT
FLEX	FLEXIBLE
F/O OR FO	FIBER OPTIC
FRE	FIBERGLASS REINFORCED EPOXY CONDUIT
HAR	HIGHWAY ADVISORY RADIO
INTRFCE	INTERFACE
IRR	IRRIGATION
J-BOX	JUNCTION BOX
MUX	MULTIPLEXER
NOM	NOMINAL
PDA	POWER DISTRIBUTION ASSEMBLY
PR	PAIR
PTZ	PAN, TILT AND ZOOM
REQ'D	REQUIRED
RMS	RAMP METERING SYSTEM OR STATION
RX	RECEIVER
SCE	SOUTHERN CALIFORNIA EDISON
SCHED	SCHEDULE
SH	SHORT HAUL
SM	SINGLEMODE
STC	SCREENED TRANSMISSION CABLE
STL	STEEL
TDM	TIME DIVISON MULTIPLEXER
TELCO	TELEPHONE COMPANY
TMC	TRANSPORTATION MANAGEMENT CENTER
TMS	TRAFFIC MONITORING STATION
TP	TWISTED PAIR
TX	TRANSMITTER
VDX	VIDEO DEMULTIPLEXER
VMX	VIDEO MULTIPLEXER
VR	SINGLE VIDEO RECEIVER
VX	SINGLE VIDEO TRANSMITTER
*X	X AWG CONDUCTOR, 1e *10 MEANS 10 AWG CONDUCTOR
YP	Y PAIRS OF CONDUCTORS, 1e 2P MEANS 2 PAIRS

LEGEND

- CCTV CAMERA
- HIGHWAY ADVISORY RADIO
- SPLICE VAULT
- EXISTING SPLICE VAULT
- FIBER OPTIC PATCH CORD
- COMMUNICATION PULL BOX
- C — COMMUNICATION CONDUIT(S)
- E — SERVICE CONDUIT(S)
- 1 1 1 2 — CONDUIT LINE DELIMITER FOR CONSTRUCTION NOTES
- TYPE 334-TV CABINET
- EXISTING TELEPHONE BRIDGE
- TELEPHONE BRIDGE
- FIBER OPTIC CABLE
- COAXIAL CABLE

AS-BUILT
Contract No. 07- 120734
Resident Engineer: WARREN YUE
Completion Date: 09/18/2000

CCTV AND COMMUNICATION SYSTEM (LEGEND AND NOTES)

E-1

TP	DATE 9/95	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		CHECKED BY	
JZ	9/95		

DESIGN OVERSIGHT
PAT SULLIVAN

XXXXXXXXXXXXXXXXXXXXXXXX
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DATE PLOTTED => 10-JUN-1997
TIME PLOTTED => 10:44
00-00-00

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trtome
DGN FILE => [ESC-OE]7120734u01.dgn

CU 0739 EA 120731

GENERAL NOTES:

1. THE LOCATION OF ELECTRICAL HIGHWAY LIGHTING CONDUITS AND PULL BOXES ARE APPROXIMATE AND WERE OBTAINED FROM LIMITED LIGHTING RECORDS. CONTRACTOR SHALL AVOID DAMAGING EXISTING LIGHTING CONDUITS.

2. THE LOCATIONS OF EXISTING DETECTOR LOOPS, EXISTING CONTROLLER CABINETS, EXISTING SERVICE ENCLOSURES, POWER POLES AND EXISTING DEMARCATION BOXES ARE APPROXIMATE.

3. THE CONTRACTOR SHALL VERIFY PROPOSED CCTV POLE LOCATIONS WITH THE ENGINEER PRIOR TO PLACEMENT OF FOUNDATIONS.

4. THE LOCATIONS OF PROPOSED ELEMENTS ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED OR APPROVED BY THE ENGINEER. SEE L-SHEETS FOR EXACT LOCATION OF CCTV CAMERAS.

6. WHEN EXISTING DETECTOR LOOPS AND CONDUITS ARE SHOWN IN THE VICINITY OF PROPOSED CONDUIT TRENCHES THE CONTRACTOR SHALL AVOID DAMAGING THE EXISTING CONDUIT. TRENCHING WITH HAND TOOLS MAY BE REQUIRED.

7. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL OR TELCO FACILITIES, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE 72 HOURS PRIOR TO COMMENCING WORK TO THE ENGINEER AND ALL CONCERNED AGENCIES.

8. A PULL ROPE SHALL BE INSTALLED IN ALL EMPTY CONDUITS.

9. UNLESS OTHERWISE NOTED, ALL COMMUNICATION CONDUIT BENDS SHALL BE 4 FT RADIUS FACTORY BENDS. ALL OTHER CONDUITS SHALL HAVE A MINIMUM BEND RADIUS OF NO LESS THAN 6 TIMES THE CONDUIT DIAMETER.

10. CONDUITS AND CONDUCTORS IN CONDUIT AND CONDUCTOR SCHEDULE TABLES ARE NEW UNLESS MARKED (E) INDICATING EXISTING.

11. PVC, WHERE CALLED OUT IN THESE PLANS, SHALL MEAN RIGID NON-METALLIC CONDUIT AS DEFINED IN THE STANDARD SPECIFICATIONS.

12. CONDUIT(S) SHALL BE INSTALLED WHERE SHOWN ON THE PLANS RELATIVE TO THE EXISTING SHOULDER.

13. IDENTIFICATION FORMAT OF TRAFFIC OPERATION SYSTEM (TOS) ELEMENTS:

FYXXX
- POST MILE (TO NEAREST 10TH)
- FREEWAY NAME SHORT FORM

14. MODEM NUMBERS FOR SOME CONTROLLERS HAVE NOT YET BEEN ASSIGNED, AND THEREFORE SUCH LOCATIONS HAVE BEEN ASSIGNED TO MODEM AC. VERIFY MODEM NUMBERS BEFORE CONSTRUCTION.

15. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

16. ALL DOUBLE LOOPS PLACED IN BUSWAY LANES SHALL BE 20 FEET APART FROM CENTER TO CENTER.

PROJECT NOTES: (MASTER LIST)

1. INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-56 FOR DETAILS.
2. INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-55 FOR DETAILS.
3. INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-62 AND E-63 FOR DETAILS.
4. JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-57 FOR DETAILS.
5. INSTALL FIBERGLASS REINFORCED EPOXY (FRE) CONDUIT(S) ON STRUCTURE. SEE SHEETS C-1 TO C-7 FOR DETAILS.
6. ADD POWER CONDUCTORS TO EXISTING CONDUIT.
7. INSTALL CCTV CAMERA POLE ON NEW FOUNDATION. SEE SHEETS E-58 AND C-9 FOR DETAILS. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE.
8. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON EXISTING SIGN STRUCTURE. SEE SHEETS E-58 AND C-10 FOR DETAILS.
9. ADD CABLE(S) AND CONNECT TO CONTROLLER.
10. INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEET E-65 AND DETAIL 1, SHEET E-67.
11. DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
12. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION. CABINET SHALL INCLUDE CAMERA CONTROL RECEIVER AND SINGLE VIDEO TRANSMITTER. SEE DETAIL A, SHEET E-68 AND DETAIL 3, SHEET E-67.
13. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION. CABINET SHALL INCLUDE EQUIPMENT AT VIDEO NODE. SEE SHEETS E-68 AND E-69 FOR DETAILS.
14. RC EXIST DLC. INSTALL NEW DLC IN THE EXISTING CONDUIT.
15. TRANSITION CONDUIT UNDER SOUNDWALL. DIG WITH HAND TOOLS AS REQUIRED. SEE SHEET C-8 FOR DETAILS.
16. INSTALL TYPE 334 CABINET ON NEW FOUNDATION. INSTALL STATE-FURNISHED MODEL 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK. SEE SHEET E-65 AND DETAIL 4, SHEET E-67.
17. INSTALL 30A, 120V, SINGLE POLE CIRCUIT BREAKER FOR CCTV.
18. INSTALL COMMUNICATION PULL BOX 15 FEET FROM EDGE OF STRUCTURE.
19. INSTALL ON NEW FOUNDATION TYPE III-BF 100A, 120/240V SERVICE WITH A 100A, 240V MAIN CIRCUIT BREAKER.
20. INSTALL 3" CONDUIT TYPE H SERVICE RISER ON POWER POLE.
21. INSTALL 3" RIGID STEEL CONDUIT. UTILITY COMPANY TO INSTALL CONDUCTORS.
22. INSTALL CONDUITS IN THE SAME TRENCH. SEE SHEETS E-55 AND E-56 FOR DETAILS.
23. THIS ITEM IS NOT INCLUDED IN THE QUANTITIES FOR PAYMENT ON THIS SHEET.
24. ADD CABLES TO EXISTING CONDUIT.
25. IDENTIFY AND RC DLC CONNECTING TO ABANDONED LOOPS. ADD NEW DETECTOR LOOP CABLE(S) THROUGH EXISTING CONDUIT INTO THE EXISTING CABINET AND CONNECT TO EXISTING TERMINAL BLOCK.
26. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION. CABINET SHALL INCLUDE EQUIPMENT AT DATA NODE. SEE SHEETS E-68 AND E-69 FOR DETAILS.
27. COIL 25 FEET OF 6P22 TWISTED PAIR CABLE IN 6 PULL BOX FOR PUMP STATION. SPLICE IN/OUT PAIRS TOGETHER USING A TWISTED PAIR SPLICE CLOSURE.
28. COIL 50 FEET OF 6P22 TWISTED PAIR CABLE IN 6 PULL BOX FOR TRAFFIC SIGNAL CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A TWISTED PAIR SPLICE CLOSURE.
29. COIL 25 FEET OF 6P22 TWISTED PAIR CABLE IN 6 PULL BOX FOR IRRIGATION CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A TWISTED PAIR SPLICE CLOSURE.
30. INSTALL 25 PR & 50 PR TERMINAL BLOCKS IN EXISTING DATA NODE CABINET, SEE SHEET E-69 AND E-78 FOR DETAILS.
31. INSTALL 2 TELEPHONE BRIDGES AND 12-PAIR TERMINAL BLOCK IN CMS CABINET. SEE DETAIL 2, SHEET E-67 AND SHEET E-66 FOR DETAILS.
32. INSTALL TYPE 334 CABINET ON NEW FOUNDATION, CABINET SHALL INCLUDE FDU SEE DETAIL 5, SHEET E-67 FOR DETAILS.
33. REWIRE EXIST TELEPHONE BRIDGE, CONNECT EXISTING CABLE FROM CONTROLLER _____ TO BRIDGE INPUT. CONNECT CONTROLLER _____ TO BRIDGE OUTPUT.
34. INSTALL SPLICE VAULT 15 FEET FROM EDGE OF STRUCTURE, WITHOUT TWISTED PAIR AND FIBER OPTIC SPLICE CLOSURES. FIGURE 8 100 FEET OF ALL CABLES IN THE SPLICE VAULT.
35. INSTALL ONE 30A CIRCUIT BREAKER IN POWER DISTRIBUTION PANEL IN EXISTING HUB BUILDING.
36. INSTALL RIGID STEEL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. CONDUIT(S) SHALL BE INSTALLED AS CLOSE TO THE EDGE OF TRAVELWAY AS POSSIBLE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 10	16.9/18.5, 50.0/31.1	68	159

Teri Parola 9/18/95
REGISTERED ELECTRICAL ENGINEER (Date)

12-30-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TERI J. PAROLA No. 14898 Exp. 6/30/99 ELECTRICAL STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
14320 FIRESTONE BLVD., SUITE 100
LA MIRADA, CA 90638

IN ASSOCIATION WITH:

KAWES AND ASSOCIATES, INC.

The State of California and its officers and agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

AS-BUILT
Contract No. 07- 120734
Resident Engineer: WARREN YUE
Completion Date: 09/18/2000

CCTV AND COMMUNICATION SYSTEM (NOTES)

NO SCALE

E-2

DESIGN OVERSIGHT	PAT SULLIVAN	
CALCULATED/DESIGNED BY	TP	DATE 9/95 REVISED BY
CHECKED BY	JZ	9/95 DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 10	16.9/18.5, SO.0/31.1	69	159

Teri Parola 9/18/95
REGISTERED ELECTRICAL ENGINEER (Date)

12-30-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TERI J. PAROLA No. 14898 Exp. 6/30/99 ELECTRICAL STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
14320 FIRESTONE BLVD., SUITE 100
LA MIRADA, CA 90638

IN ASSOCIATION WITH:

KAWES AND ASSOCIATES, INC.

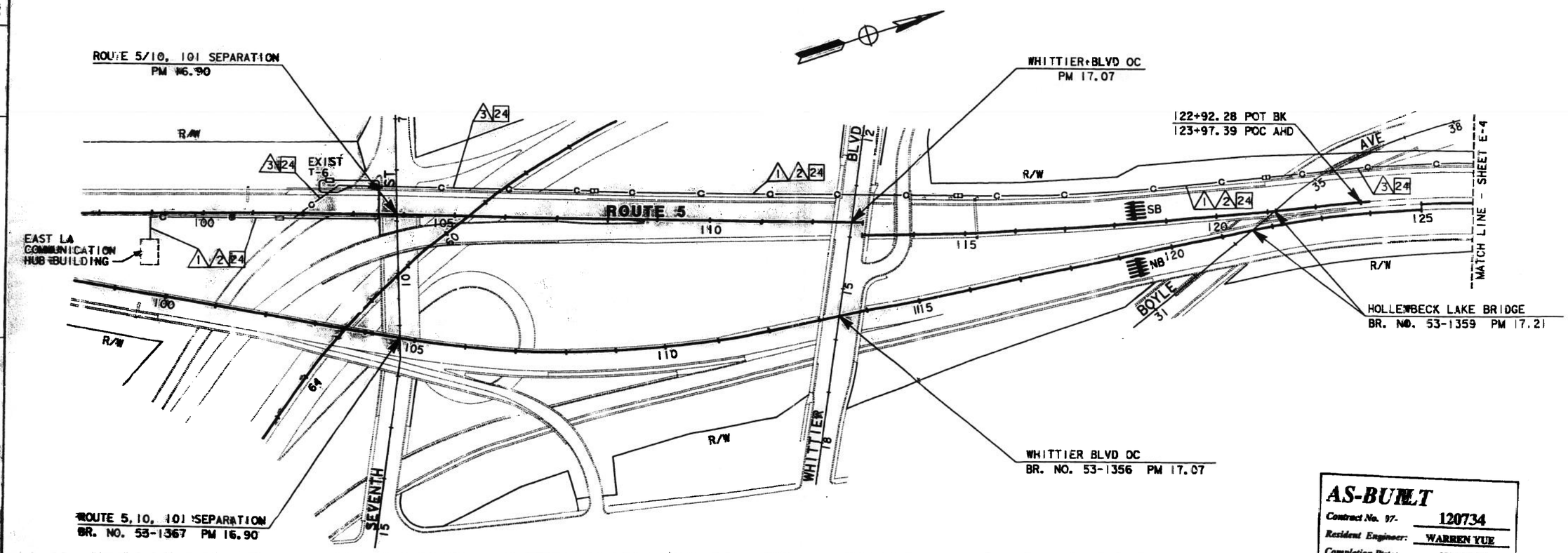
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)									
CONDUCTOR TYPE	FUNCTION	RUN 1			RUN 2			RUN 5	
72 SM 6/C CABLE	VIDEO/DATA			1			1		
44 SM 6/C CABLE	VIDEO/DATA		1 (E)					1 (E)	
6M 6/C CABLE	SHORT HAUL VIDEO		1 (E)						1 (E)
50P 22 CABLE	DATA/PHONE	1 (E)					1 (E)		
	INNERDUCT		1¼" (E)	1¼" (E)	1¼"	1¼"	1¼"	1¼" (E)	1¼" (E)
	CONDUIT SIZE	4" (E)			4" (E)			4" (E)	

(E) - EXISTING CONDUIT OR CONDUCTOR

PROJECT NOTES: (THIS SHEET ONLY)

24 ADD CABLES TO EXISTING CONDUIT.



AS-BUILT
Contract No. 97- 120734
Resident Engineer: WARREN YUE
Completion Date: 09/18/2000

COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND PROJECT NOTES SEE SHEETS E-1 AND E-2.

E-3

DESIGNED BY IP 9/95 REVISED BY
CHECKED BY JZ 9/95 DATE REVISED
PAT SULLIVAN

DATE PLOTTED => 26-Mar-2001
TIME PLOTTED => 10:54
LAST REVISION 00-00-00

DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh

CU 07396 EA 12073I

DIST	COUNTY	ROUTE	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 10	16.9/18.5, 50.0/31.1	70	159

Teri Parola 9/18/95
REGISTERED ELECTRICAL ENGINEER (Date)

12-30-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TERI J. PAROLA — No. 14898 — Exp. 6/30/99 — ELECTRICAL — STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
14320 FIRESTONE BLVD., SUITE 100
LA MIRADA, CA 90638

IN ASSOCIATION WITH:

KAWES AND ASSOCIATES, INC.

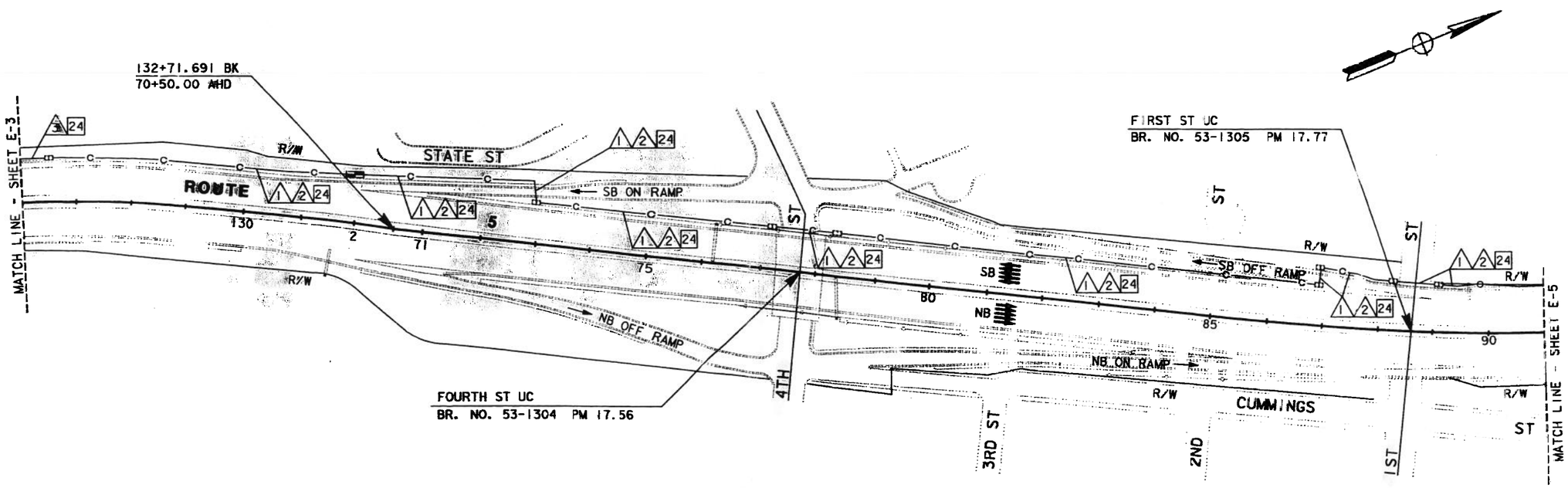
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)										
CONDUCTOR TYPE	FUNCTION	RUN 1			RUN 2			RUN 3		
72SMFO CABLE	VIDEO/DATA							1		
48SMFO CABLE	VIDEO/DATA		1 (E)						1 (E)	
8MMFO CABLE	SHORT HAUL VIDEO		1 (E)							1 (E)
50P22 CABLE	DATA/PHONE	1 (E)						1 (E)		
	INNERDUCT		1 1/4" (E)	1 1/4" (E)	1 1/4"	1 1/4"	1 1/4"		1 1/4" (E)	1 1/4" (E)
	CONDUIT SIZE	4" (E)			4" (E)			4" (E)		

(E) - EXISTING CONDUIT OR CONDUCTOR

PROJECT NOTES: (THIS SHEET ONLY)

24 ADD CABLES TO EXISTING CONDUIT.



AS-BUILT
Contract No. 87- 120734
Resident Engineer: WARREN YUE
Completion Date: 09/18/2000

COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND PROJECT NOTES SEE SHEETS E-1 AND E-2.

E-4

DESIGNED BY PS 9/95 REVISED BY
CHECKED BY JZ 9/95 DATE REVISED

PAT SULLIVAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 10	16.9/18.5, 50.0/31.1	71	159

Teri Parola 9/18/95
REGISTERED ELECTRICAL ENGINEER (Date)

12-30-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TERI J. PAROLA No. 14898 Exp. 6/30/99 ELECTRICAL STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
14320 FIRESTONE BLVD., SUITE 100
LA MIRADA, CA 90638

IN ASSOCIATION WITH:

KAWES AND ASSOCIATES, INC.

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1		RUN 2			RUN 4
72SMFO CABLE	VIDEO/DATA			1			
48SMFO CABLE	VIDEO/DATA		1 (E)				
8MMFO CABLE	SHORT HAUL VIDEO	1 (E)					
50P22 CABLE	DATA/PHONE	1 (E)					
2MMFO B/O CABLE	SHORT HAUL VIDEO						1 (E)
6P19 CABLE	DATA/PHONE						1 (E)
	INNERDUCT	1¼" (E)	1¼" (E)	1¼"	1¼"	1¼"	
	CONDUIT SIZE	4" (E)		4" (E)			3" (E)

(E) - EXISTING CONDUIT OR CONDUCTOR

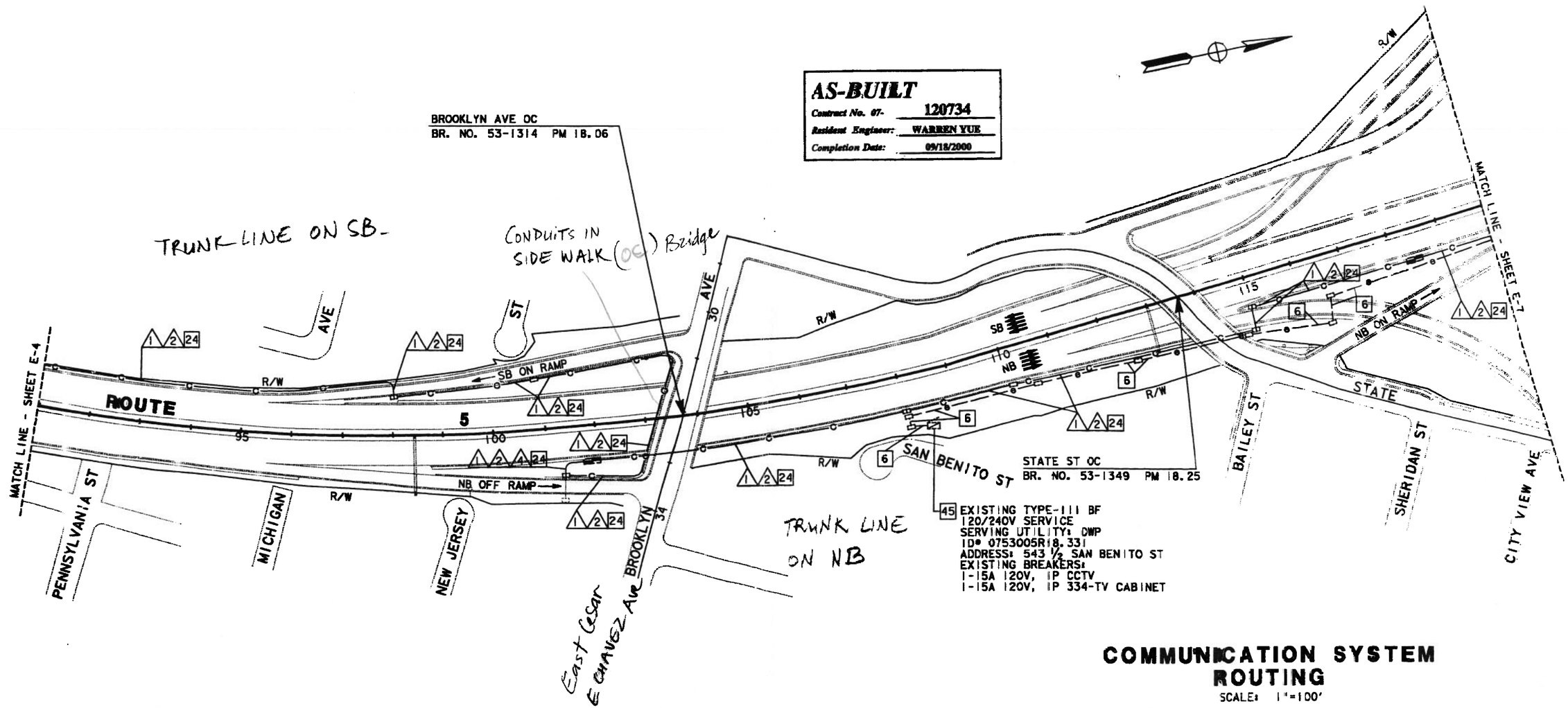
PROJECT NOTES: (THIS SHEET ONLY)

6 ~~ADD~~ 2#2 POWER CONDUCTORS TO EXISTING CONDUIT. EXIST

24 ADD CABLES TO EXISTING CONDUIT.

45 INSTALL 1-40A, 120V SINGLE POLE CIRCUIT BREAKER FOR VIDEO NODE.

AS-BUILT
Contract No. 07- 120734
Resident Engineer: WARREN YUE
Completion Date: 09/18/2000



COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND PROJECT NOTES SEE SHEETS E-1 AND E-2.

E-5

DESIGNED BY	IP	9/95
CHECKED BY	JZ	9/95
REVISED BY		
DATE REVISED		

PAT SULLIVAN

Caltrans

00-00-00

RM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712073u0526105956

CU 07396 EA 120731

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 10	6.9/18.5, 0.0/31.1	73	159

Teri Parola 9/ 8/95
REGISTERED ELECTRICAL ENGINEER (Date)

12-30-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TERI J. PAROLA — No. 14898 — Exp. 6/30/99 — ELECTRICAL — STATE OF CALIFORNIA

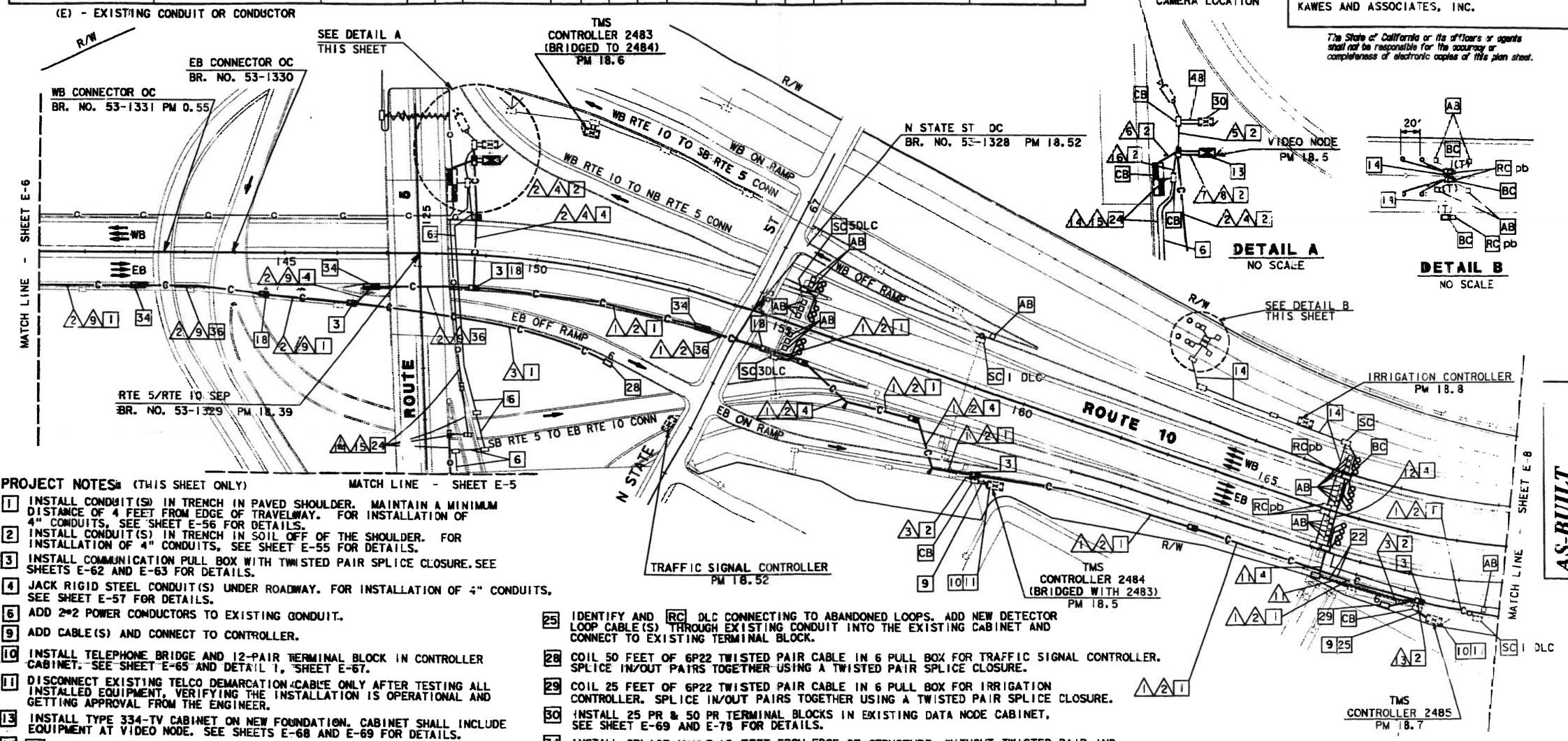
NATIONAL ENGINEERING TECHNOLOGY
4320 FIRESTONE BLVD., SUITE 100
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
KAWES AND ASSOCIATES, INC.

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1	2	3	4	5	6	7	8	9	11	12	13	14	15	16
50P22 CABLE	DATA /PHONE	1			1	1								1(E)		
6P22 CABLE	DATA /PHONE			1									1			
72SMFO CABLE	DATA / VIDEO	1			1		1								1	
12SMFO CABLE	SH VIDEO		1					1								
2SMFO CABLE	VIDEO / DATA						1	1								
25P22 CABLE	DATA / PHONE				1	1				1						
8MMFO	SH VIDEO													1(E)		
48SMFO	VIDEO / DATA													1(E)		
2*2	POWER								2							2
DLC	RAMP/COUNT										15	11	15			
	INNERDUCT	1¼" 1¼"			1¼" 1¼"					1¼" 1¼"				1¼"(E) 1¼"(E)	1¼" 1¼" 1¼"	
	CONDUIT SIZE	4"	4"	2"	4"	3"	3"	3"	3"	4"	3"	2"	2"	4"(E)	4"(E)	2"

(E) - EXISTING CONDUIT OR CONDUCTOR



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-56 FOR DETAILS.
2. INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-55 FOR DETAILS.
3. INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-62 AND E-63 FOR DETAILS.
4. JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-57 FOR DETAILS.
6. ADD 2*2 POWER CONDUCTORS TO EXISTING CONDUIT.
9. ADD CABLE(S) AND CONNECT TO CONTROLLER.
10. INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEET E-65 AND DETAIL 1, SHEET E-67.
11. DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
13. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION. CABINET SHALL INCLUDE EQUIPMENT AT VIDEO NODE. SEE SHEETS E-68 AND E-69 FOR DETAILS.
14. RC EXIST DLC. INSTALL NEW DLC IN THE EXISTING CONDUIT.
18. INSTALL COMMUNICATION PULL BOX 15 FEET FROM EDGE OF STRUCTURE.
22. INSTALL CONDUITS IN THE SAME TRENCH. SEE SHEETS E-55 AND E-56 FOR DETAILS.
24. ADD CABLES TO EXISTING CONDUIT.
25. IDENTIFY AND RC DLC CONNECTING TO ABANDONED LOOPS. ADD NEW DETECTOR LOOP CABLE(S) THROUGH EXISTING CONDUIT INTO THE EXISTING CABINET AND CONNECT TO EXISTING TERMINAL BLOCK.
28. COIL 50 FEET OF 6P22 TWISTED PAIR CABLE IN 6 PULL BOX FOR TRAFFIC SIGNAL CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A TWISTED PAIR SPLICE CLOSURE.
29. COIL 25 FEET OF 6P22 TWISTED PAIR CABLE IN 6 PULL BOX FOR IRRIGATION CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A TWISTED PAIR SPLICE CLOSURE.
30. INSTALL 25 PR & 50 PR TERMINAL BLOCKS IN EXISTING DATA NODE CABINET. SEE SHEET E-69 AND E-78 FOR DETAILS.
34. INSTALL SPLICE VAULT 15 FEET FROM EDGE OF STRUCTURE, WITHOUT TWISTED PAIR AND FIBER OPTIC SPLICE CLOSURES. FIGURE 8 100 FEET OF ALL CABLES IN THE SPLICE VAULT.
36. INSTALL RIGID STEEL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. CONDUIT(S) SHALL BE INSTALLED AS CLOSE TO THE EDGE OF TRAVELWAY AS POSSIBLE.
48. INSTALL 50P22 AND 25P22 TWISTED PAIR CABLES IN THE EXISTING CONDUIT.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND PROJECT NOTES SEE SHEETS E-1 AND E-2.

LOOP DETECTOR VIDEO NODE AND COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

E-7

AS-BUILT
Contract No. 07-120734
Resident Engineer: WARREN YUE
Completion Date: 09/18/2000

REVISED BY	DATE REVISED
TP	9/95
JZ	9/95

CALCULATED BY / DESIGNED BY / CHECKED BY

PROJECT ENGINEER: PAT SULLIVAN

STATE OF CALIFORNIA — DEPARTMENT OF TRANSPORTATION — Caltrans

DATE PLOTTED => 26-Apr-2001
TIME PLOTTED => 14:01

AS-BUILT
FOR EA 30550
PM 13.57 – 16.76

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 101	6.8/16.9, 0.0/1.8	31	133

5/29/92
REGISTERED CIVIL ENGINEER

3-15-93
PLANS APPROVAL DATE

DeLeuw, Cather and Company
100 N. Walnut Street
Pasadena, CA 91 24

REGISTERED PROFESSIONAL ENGINEER T. J. WILSON No. 43560 Exp. 5/30/96 CIVIL STATE OF CALIFORNIA

GENERAL NOTES:

1. CCTV LOCATION PLANS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE AND GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUIT. THE LOCATION OF ITEMS NOT DIMENSIONED ARE APPROXIMATIONS ONLY. THE OPTIMUM LOCATIONS SHALL BE DETERMINED AT THE PROJECT SITE AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED.

2. CONDUITS BEING PLACED TO EXISTING RAMP METER CONTROLLERS, CMS CONTROLLERS, AND TELEPHONE COMPANY/CALTRANS DEMARCATION BOXES TERMINATE IN EXISTING ADJACENT PULL BOX. IF NONE EXIST, PLACE CALTRANS PULL BOX 5 OR 5(T), AS LOCATION WARRANTS AND AS DIRECTED BY THE ENGINEER.

3. ALL 2'' AND 4'' POLYVINYL CHLORIDE CONDUIT SHALL BE CONSIDERED RIGID NON-METALLIC CONDUIT.

LEGEND (SHEETS E-1 THROUGH E-74)

NX NO CROSSCONNECT
2W 2-WIRE CIRCUIT
4W 4-WIRE CIRCUIT (4WTO)
FXS FOREIGN EXCHANGE SUBSCRIBER
FXO FOREIGN EXCHANGE OFFICE
CCTV CAMERA LOCATION (100 SCALE)
CCTV CAMERA AND POLE
(T) SPLICE BOX SEE E-48 AND E-49
(T) 2½' x 4' x 3' PULL BOX SEE E-48 AND E-49
XXX EXISTING CONTROLLER CABINET WITH CIRCUIT IDENTIFICATION (FOR INFORMATION ONLY)
CCTV 334 CABINET
—C— COMMUNICATION CONDUIT
— — — POWER SERVICE CONDUIT
XXX T EXISTING TELEPHONE DEMARCATION CABINET WITH CIRCUIT IDENTIFICATION (FOR INFORMATION ONLY)
XXX EXISTING 4-INPUT 4-WIRE AUDIO BRIDGE (TELLABS 4445) LOCATED IN CONTROLLER CABINET (XXX INDICATES CABINET NUMBER)
X TELEPHONE BRIDGE DUAL 5-WAY ACTIVE BRIDGE (X INDICATES SHELF NUMBER)
SURGE PROTECTOR
EQUIPMENT GROUND
CIRCUIT BREAKER
R DUPLEX RECEPTACLE
EXISTING DETECTOR LOOPS
VSK VIDEO SWITCH KEYPAD
CCK CAMERA CONTROL KEYPAD
MR MONITOR RACK
EQ RACK EQUIPMENT RACK
O/E OPTICAL TO ELECTRICAL
E/O ELECTRICAL TO OPTICAL
M/M MULTIMODE FIBER
SA 869 CCTV IDENTIFICATION NUMBER: PLACE ON STRUCTURE WITH RAISED OR RECESSED FIGURES OR ON POLE ABOVE 10', IN 3'' CHARACTERS
SA 869 (SANTA ANA, PM)
SA 500 (SANTA ANA, SPUR, PM)
HO 812 (HOLLYWOOD, PM)

CONDUIT AND CONDUCTOR SCHEDULE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
CAMERA VIDEO INTERFACE CABLE												1							1
PAN/TILT CONTROL CABLE													1						1
LENS CONTROL CABLE												1							
CAMERA POWER CABLE													1						
CAMERA GROUND CABLE																			
SINGLE MODE FIBERS		2	2	72	72	72	12	6	12								2	6	2
MULTI MODE FIBERS						6	18		6	6	2								
COPPER TRUNK CABLE TWISTED PAIR						25	100		50	50									
2 PAIR COMMUNICATION DISTRIBUTION CABLE											1				1	2	2	1	1
INNER DUCT				2		2	2		2	2									
CONDUIT DIAMETER (INCHES)	(MT) 4	4	4	4	2	4	4	2	4	4	2	2	2	2	2	2	2	2	2

AS BUILT
Contract No. 07-118604
Resident Engineer: [illegible]
Completion Date: September 17, 1997

CCTV COMMUNICATION SYSTEM CONDUIT AND CONDUCTOR SCHEDULE AND LEGEND

NO SCALE

E-1

CU 07387 | EA 118601

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

DESIGN OVERSIGHT
GREGORY B DAMICO

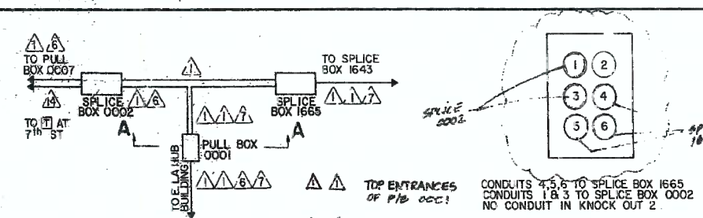
	CALCULATED/ DESIGNED BY	CBF	DATE 4/92	REVISED BY	CF	10/92
	CHECKED BY	IO	4/92	DATE REVISED		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

FOR EXISTING UTILITIES
SEE SHEET U-5

PROJECT NOTES:
1. INSTALL CONDUIT IN SLOPED EMBANKMENT
2. INSTALL CONDUIT IN SLOPED EMBANKMENT
3. JACK CONDUIT UNDER FREEWAY

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



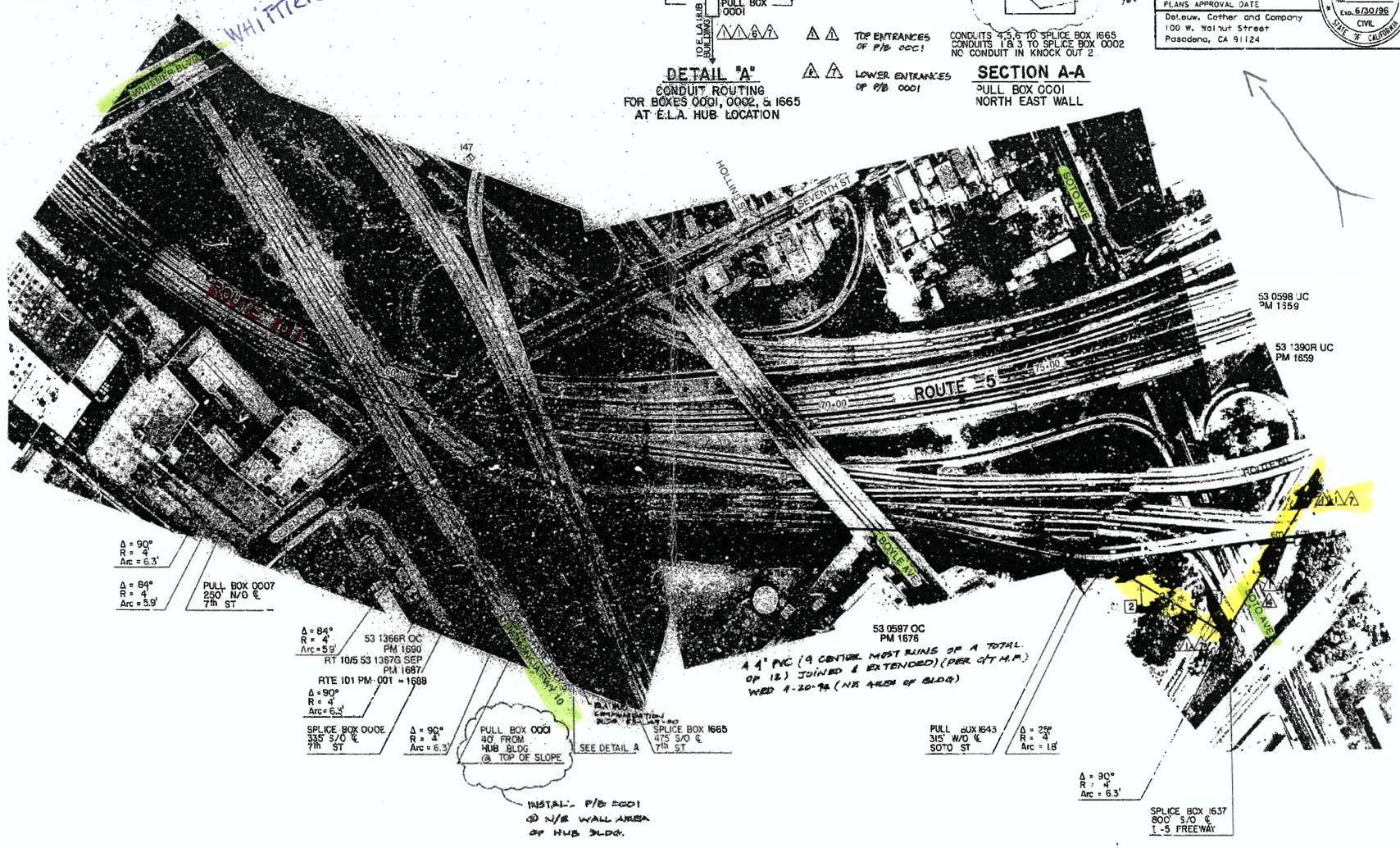
DETAIL "A"
CONDUIT ROUTING
FOR BOXES 0001, 0002, & 1665
AT E.L.A. HUB LOCATION

SECTION A-A
PULL BOX 0001
NORTH EAST WALL

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.8/16.9, 0.0/1.8	36	133

REGISTERED CIVIL ENGINEER 4/17/96
-5-93
PLANS APPROVAL DATE
Deleuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124

PROFESSIONAL ENGINEER REGISTERED T.M. WILSON No. 43560 Exp. 6/30/96 CIVIL STATE OF CALIFORNIA



AS BUILT 118604
Contract No. 07-
Resident Engineer: Luke Nguyen
Completion Date: September 17, 1997

COMMUNICATION ROUTING PLAN

SCALE 1" = 100'

E-6

CALCULATED/ DESIGNED BY	D.R.	DATE	REVISED BY
CHECKED BY	E.C.		DATE REVISED

DESIGN OVERSIGHT
GLORIA GWYNNE

DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07387 EA 118601

< 24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 101	6.8/16.3, 0.0/1.8	37	133

REGISTERED CIVIL ENGINEER 4/1/96

3-15-93
PLANS APPROVAL DATE

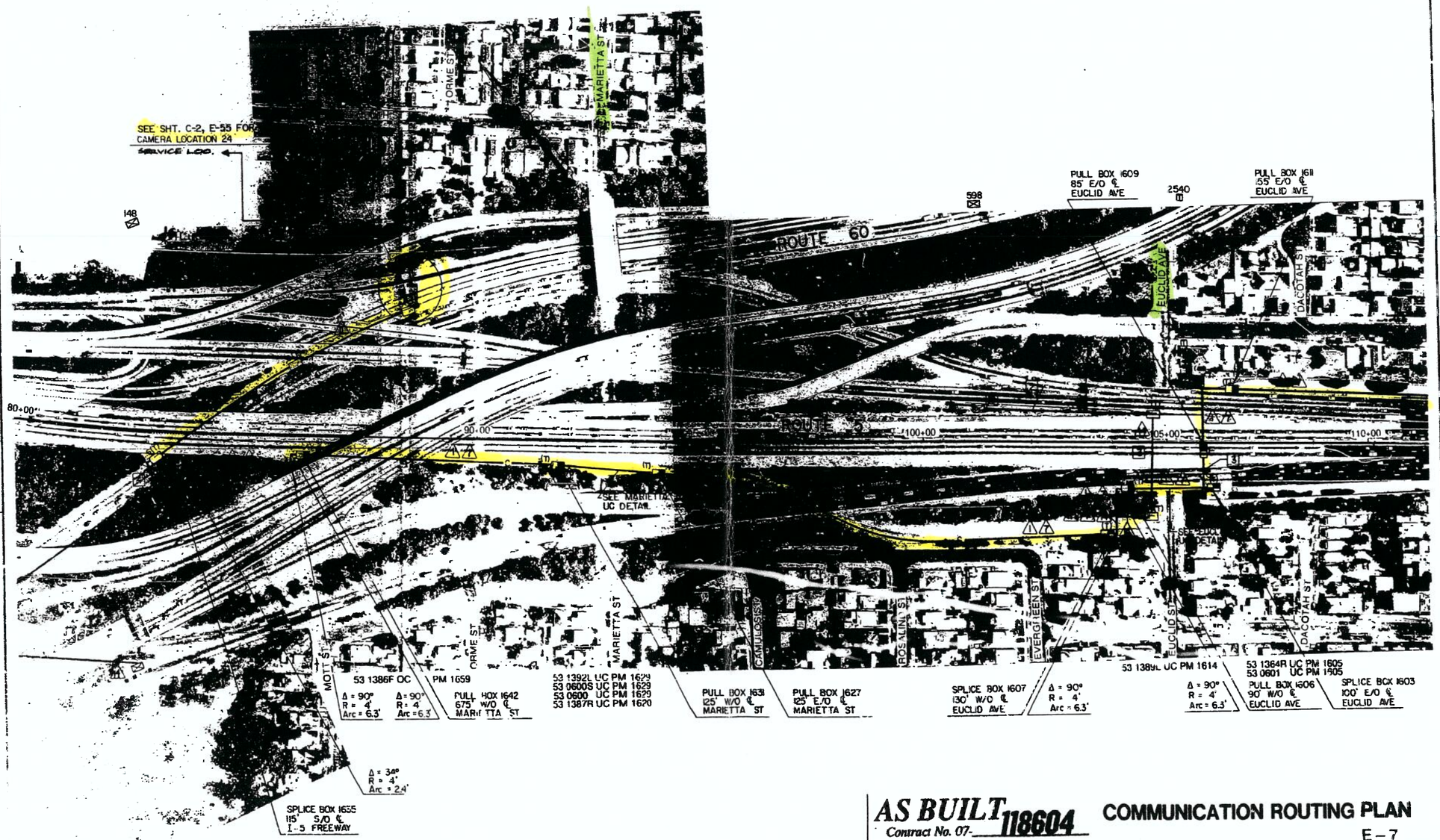
REGISTERED PROFESSIONAL ENGINEER T.M. WILSON No. 43560 Exp. 6/30/96 CIVIL STATE OF CALIFORNIA

DeLeuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124

FOR EXISTING UTILITIES SEE SHEET U 6

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

PROJECT NOTES:
1. INSTALL CONDUIT IN SLOPED EMBANKMENT.
2. INSTALL CONDUIT IN NON PAVED AREA.
3. INSTALL CONDUIT IN SLOPED EMBANKMENT UNDER EUCLID ST. UC STRUCTURE.
4. JACK CONDUIT UNDER FREEWAY.
5. SEE DRAWING FOR CAMERA LOCATION 24 FOR POWER WIRING TO BE PROVIDED IN 6



AS BUILT 118604
Contract No. 07-
Resident Engineer: Luke Nguyen
Completion Date: September 17, 1997

COMMUNICATION ROUTING PLAN

E-7
SCALE 1" = 100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07387 | EA 118601

DESIGN OVERSIGHT GLORIA GWYNNE

CALCULATED/DESIGNED BY | CHECKED BY | D.R. | DATE | REVISED BY | DATE REVISED

DEPT. OF TRANSPORTATION
TRAFFIC DESIGN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 101	6.8/16.9,0.0/1.8	38	133

REGISTERED CIVIL ENGINEER 4/12/92

3-15-93
PLANS APPROVAL DATE

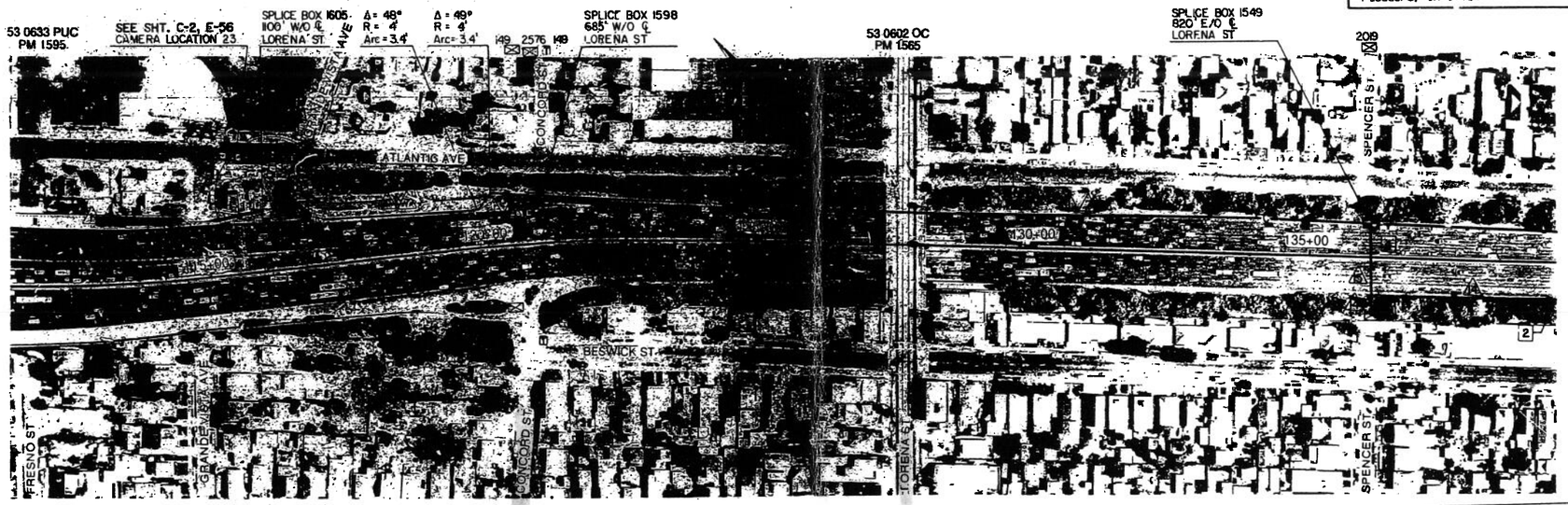
Deleuw, Cather and Company
100 N. Walnut Street
Pasadena, CA 91124

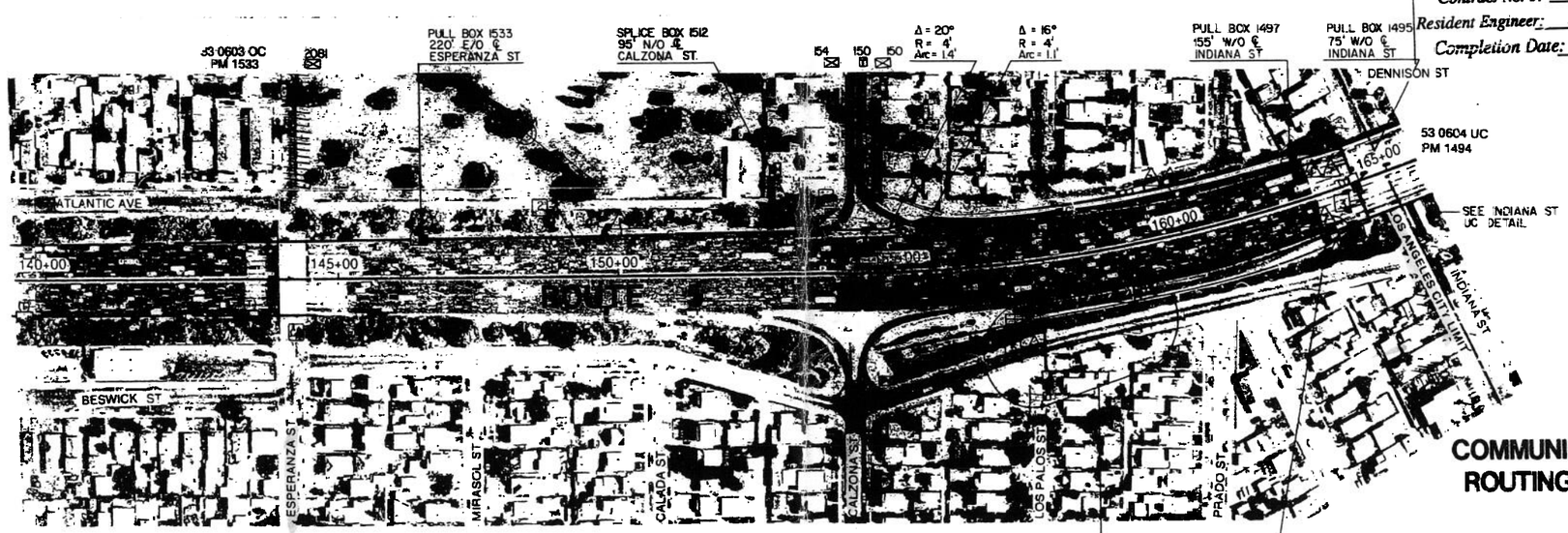
REGISTERED PROFESSIONAL ENGINEER T.M. WILSON No. 43560 Exp. 6/30/96 CIVIL STATE OF CALIFORNIA

FOR EXISTING UTILITIES
SEE SHEET U 7

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

PROJECT NOTES:
1. INSTALL CONDUIT IN NON PAVED AREA
2. INSTALL CONDUIT OUTSIDE CURB IN NON PAVED AREA
3. INSTALL CONDUIT IN SLOPED EMBANKMENT UNDER INDIANA ST. UC STRUCTURE.
4. JACK CONDUIT UNDER FREEWAY.
5. SEE DRAWINGS FOR CAMERA LOCATIONS 22 & 23 FOR POWER WIRING TO BE PROVIDED IN 18





AS BUILT 118604
Contract No. 07-
Resident Engineer: Luke Nguyen
Completion Date: September 17, 1997

COMMUNICATION ROUTING PLAN

E-8
SCALE 1" = 100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07387 | EA 118601

DESIGN OVERSIGHT
GLORIA GWYNNE

CALCULATED/DESIGNED BY
CHECKED BY
D.R.
E.C.
DATE
REVISED BY
DATE REVISED

DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

SHEET 38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 101	6.8/16.9,0.0/1.8	39	133

REGISTERED CIVIL ENGINEER 6/17/96

3-15-93
PLANS APPROVAL DATE

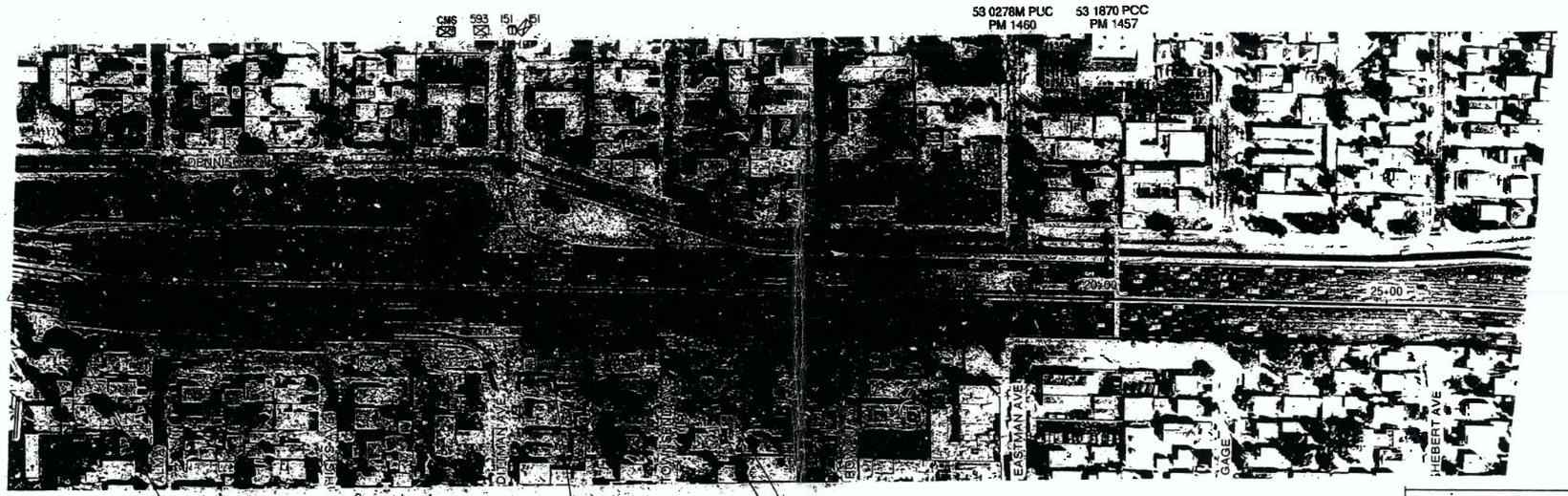
DeLeuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124

REGISTERED PROFESSIONAL ENGINEER J. M. WILSON No. 43560 Exp. 6/30/96 CIVIL STATE OF CALIFORNIA

FOR EXISTING UTILITIES
SEE SHEET U 8.

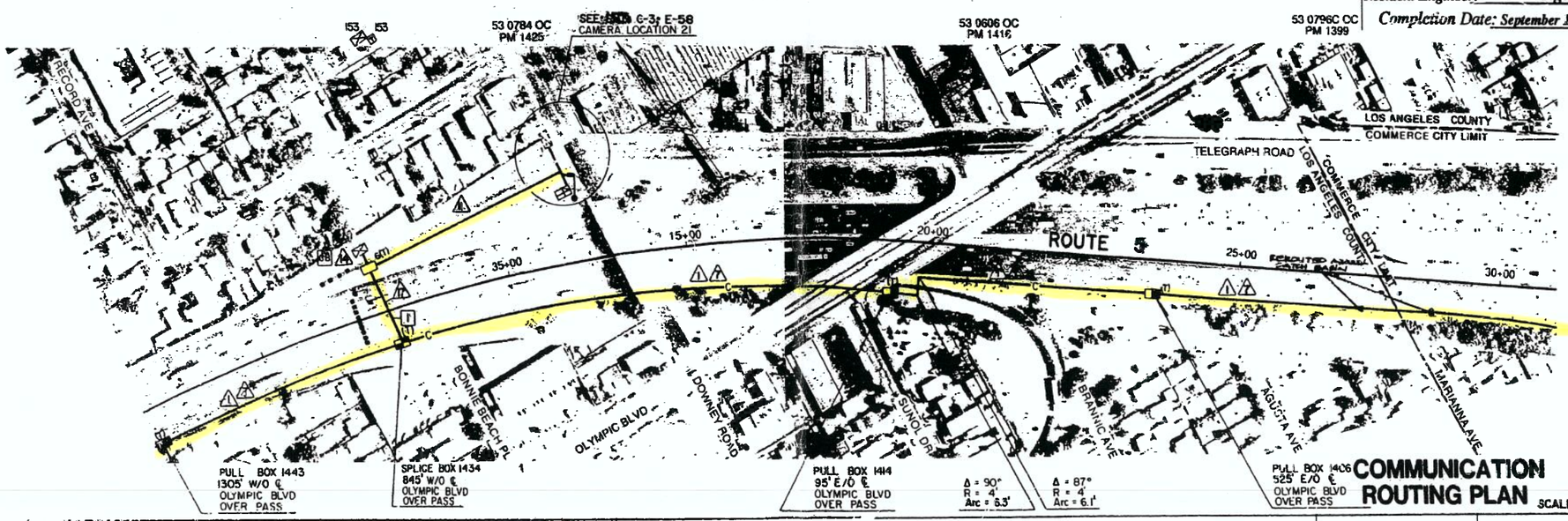
PROJECT NOTES: 1 JACK CONDUIT UNDER FREEWAY.
2 INSTALL COMMUNICATION DISTRIBUTION CABLE IN EXISTING CONDUIT.

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

AS BUILT
Contract No. 07-118604
Resident Engineer: Luke Nguyen
Completion Date: September 17, 1997



COMMUNICATION ROUTING PLAN

E-9

SCALE 1" = 100'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

HOLLYWOOD, SANTA ANA FREEWAY | CU 07387 | EA 118601

DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

DESIGN OVERSIGHT GLORIA GWYNNE

CALCULATED/DESIGNED BY | D.R. | DATE | REVISED BY
CHECKED BY | E.C. | DATE REVISED

SHEET | BASE | KM | CC-11 CL-11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.8/16.9, 0.0/1.8	40	133

REGISTERED CIVIL ENGINEER 4/17/92

3-15-93
PLANS APPROVAL DATE

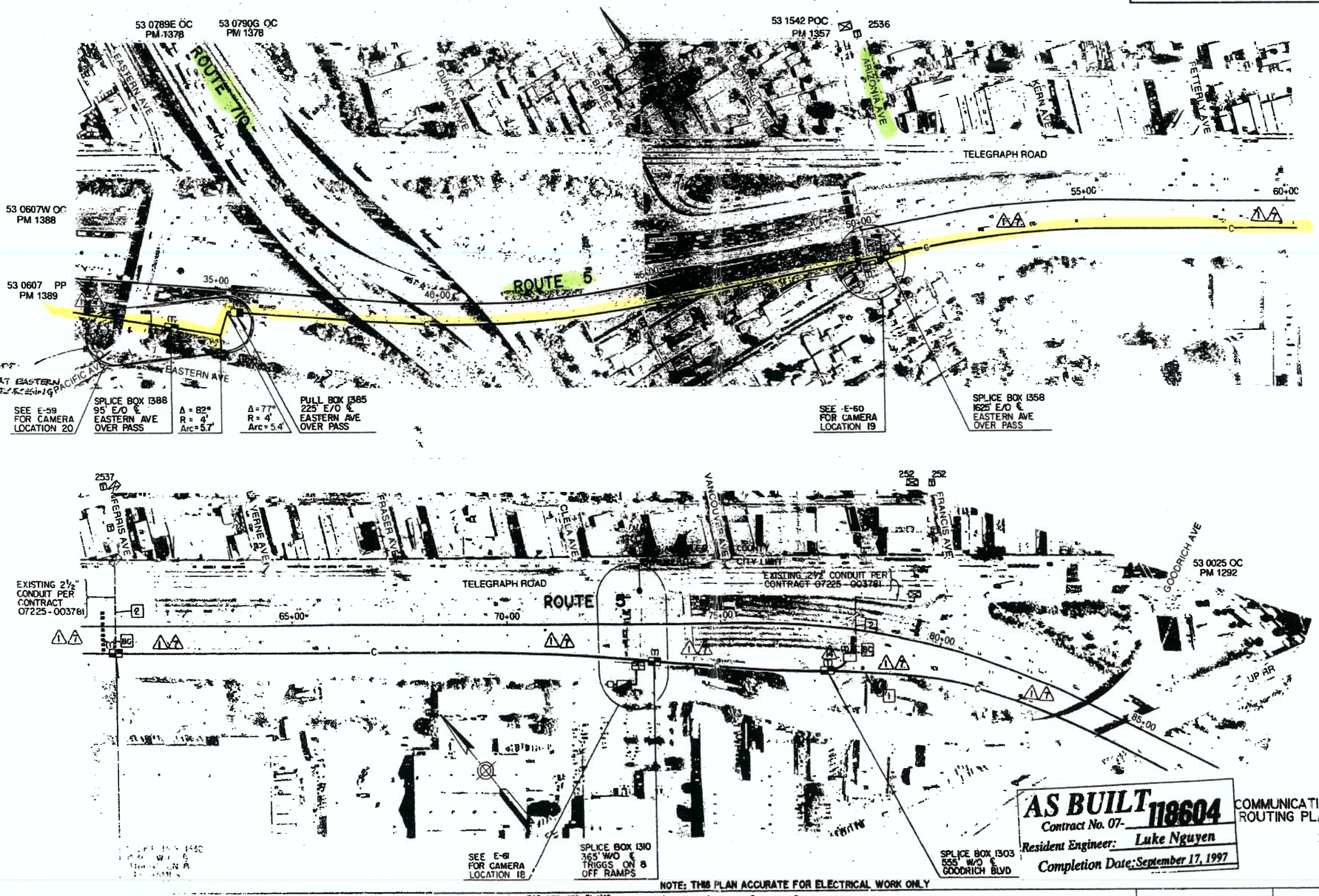
DeLeuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124

REGISTERED PROFESSIONAL ENGINEER T.M. WILSON No. 43560 Exp. 6/30/96 CIVIL STATE OF CALIFORNIA

FOR EXISTING UTILITIES
SEE SHEET U.9

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

PROJECT NOTES: 1 INSTALL CONDUIT IN PAVEMENT
2 ADD ONE (1) COMMUNICATION DISTRIBUTION CABLE IN EXISTING CONDUIT



AS BUILT 118604
Contract No. 07-
Resident Engineer: Luke Nguyen
Completion Date: September 17, 1997

COMMUNICATION ROUTING PLAN

E-10
SCALE 1" = 100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07387 | EA 118601

DESIGN OVERSIGHT
GLORIA GWYNNE

DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

	DATE	REVISED BY	DATE REVISED
CALCULATED/DESIGNED BY	D.R.		
CHECKED BY	E.C.		

SHEET CC-12 CL12 | SCALE L1

< 24

EA 305501

07-LA-5 PM 13.7/26.7

Information Handout

(Hazardous Waste)

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD and pH
SITE INVESTIGATION FOR AERIALLY DEPOSITED LEAD
LA-5, PM 13.7/26.7
EA: 305501 (E-FIS: 07-1400-0101)
TASK ORDER #3 CONTRACT 07A3963

AREA	BORING	CALTRANS UNIQUE SAMPLE ID[1]	SAMPLE DEPTH (feet bgs)	SAMPLE DATE	TOTAL LEAD[2] (mg/kg)	SOLUBLE LEAD[2] Cal WET-Citric (mg/L)	SOLUBLE LEAD[2] TCLP (mg/L)	pH[3]	SOIL CLASSIFICATION FOR DISPOSAL[5]	
									SHALLOW SOILS	DEEP SOILS
LA-5 (PM 13.7/26/7)										
Vegetation Control Area	1324-101	1324-101-0	0 to 2 inches	6/26/2016	71	4.3	--	--	Z2	--
	1324-102	1324-102-0	0 to 2 inches	6/26/2016	**110**	**5.8**	--	--		
Vegetation Control Area	1324-103	1324-103-0	0 to 2 inches	6/26/2016	**220**	**10**	--	--	Z2	--
	1324-104	1324-104-0	0 to 2 inches	6/26/2016	**220**	**16**	--	--		
Vegetation Control Area	1324-105	1324-105-0	0 to 2 inches	6/26/2016	**210**	**13**	--	--	Z2	--
	1324-106	1324-106-0	0 to 2 inches	6/26/2016	**440**	**27**	--	--		
Barrier Type 736B Location	1324-107	1324-107-0	0 to 2 inches	6/26/2016	**520**	**29**	0.28	6.0 J	Z2	Unrestricted Use
		1324-107-1.5	1.0 to 1.5	6/26/2016	28	1.4	--	--		
	1324-108	1324-108-0	0 to 2 inches	6/26/2016	**310**	**17**	--	--		
		1324-108-1.5	1.0 to 1.5	6/26/2016	72	3.3	--	--		
Vegetation Control Area	1324-109	1324-109-0	0 to 2 inches	6/26/2016	**1400**	**77**	0.63 J	6.5 J	Z2	--
	1324-110	1324-110-0	0 to 2 inches	6/26/2016	**1400**	**66**	0.31	5.6 J		
Barrier Type 736B Location	1324-111	1324-111-0	0 to 2 inches	6/26/2016	**1300**	**30**	1.6	7.9 J	Z2	Z2
		1324-111-1.5	1.0 to 1.5	6/26/2016	**290** J	**26**	--	--		
	1324-112	1324-112-0	0 to 2 inches	6/26/2016	**250**	**17**	--	--		
		1324-112-1.5	1.0 to 1.5	6/26/2016	**390**	**22**	--	--		
Barrier Type 736B Location	1324-113	1324-113-0	0 to 2 inches	6/26/2016	**180**	**9.6**	--	--	Z2	C
		1324-113-1.5	1.0 to 1.5	6/26/2016	**210**	4.4	--	--		
	1324-114	1324-114-0	0 to 2 inches	6/26/2016	**440**	**26** J	--	--		
		1324-114-1.5	1.0 to 1.5	6/26/2016	57	2.6	--	--		
Vegetation Control Area	1324-115	1324-115-0	0 to 2 inches	6/26/2016	**160**	**8.4**	--	--	Z2	--
	1324-116	1324-116-0	0 to 2 inches	6/26/2016	**440**	**19**	--	--		
Vegetation Control Area	1324-117	1324-117-0	0 to 2 inches	6/26/2016	**580**	**26**	0.19 NJ	5.9 J	Z2	--
	1324-118	1324-118-0	0 to 2 inches	6/26/2016	**510**	**30**	0.31	6.8 J		
Vegetation Control Area	1324-119	1324-119-0	0 to 2 inches	6/26/2016	**5000**	**510**	**14**	6.3 J	Z3	--
	1324-120	1324-120-0	0 to 2 inches	6/26/2016	**590**	**36**	0.092 NJ	6.2 J		
Vegetation Control Area	1324-121	1324-121-0	0 to 2 inches	6/26/2016	**390**	**33**	--	--	Z2	--
	1324-122	1324-122-0	0 to 2 inches	6/26/2016	**370**	**15**	--	--		
Vegetation Control Area	1324-123	1324-123-0	0 to 2 inches	6/25/2016	**540**	**31**	0.71	6.3 J	Z2	--
	1324-124	1324-124-0	0 to 2 inches	6/25/2016	**530** J	**27**	0.26	6.5 J		
Vegetation Control Area	1324-125	1324-125-0	0 to 2 inches	6/26/2016	**250**	**15**	--	--	Z2	--
	1324-126	1324-126-0	0 to 2 inches	6/26/2016	**240**	**11**	--	--		
Vegetation Control Area	1324-127	1324-127-0	0 to 2 inches	6/26/2016	**340**	**24**	--	--	Z2	--
	1324-128	1324-128-0	0 to 2 inches	6/26/2016	**100**	4.8	--	--		
Vegetation Control Area	1324-129	1324-129-0	0 to 2 inches	6/26/2016	**230**	**14**	--	--	Z2	--
	1324-130	1324-130-0	0 to 2 inches	6/26/2016	**360**	**16**	--	--		
Vegetation Control Area	1324-131	1324-131-0	0 to 2 inches	6/26/2016	**2700**	**160**	1.6	6.5 J	Z2	--
	1324-132	1324-132-0	0 to 2 inches	6/26/2016	**400**	**26**	--	--		
Vegetation Control Area	1324-133	1324-133-0	0 to 2 inches	6/25/2016	**2600**	**190**	**5.8**	7.2 J	Z3	--
	1324-134	1324-134-0	0 to 2 inches	6/25/2016	**230**	**19**	--	--		

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD and pH
SITE INVESTIGATION FOR AERIALLY DEPOSITED LEAD
LA-5, PM 13.7/26.7
EA: 305501 (E-FIS: 07-1400-0101)
TASK ORDER #3 CONTRACT 07A3963

AREA	BORING	CALTRANS UNIQUE SAMPLE ID[1]	SAMPLE DEPTH (feet bgs)	SAMPLE DATE	TOTAL LEAD[2] (mg/kg)	SOLUBLE LEAD[2] Cal WET-Citric (mg/L)	SOLUBLE LEAD[2] TCLP (mg/L)	pH[3]	SOIL CLASSIFICATION FOR DISPOSAL[5]	
									SHALLOW SOILS	DEEP SOILS
Barrier Type 736B Location	1324-135	1324-135-0	0 to 2 inches	6/25/2016	450 J	23 J	0.39	6.5 J	Z2	Z2
		1324-135-1.5	1.0 to 1.5	6/25/2016	95	2.1	--	--		
	1324-136	1324-136-0	0 to 2 inches	6/25/2016	430	35	--	--		
		1324-136-1.5	1.0 to 1.5	6/25/2016	680	42	0.51	7.4 J		
Barrier Type 736B Location	1324-137	1324-137-0	0 to 2 inches	6/25/2016	490 J	28	0.26	7.2 J	Z2	Z2
		1324-137-1.5	1.0 to 1.5	6/25/2016	280 J	15	--	--		
	1324-138	1324-138-0	0 to 2 inches	6/25/2016	130	6.8	--	--		
		1324-138-1.5	1.0 to 1.5	6/25/2016	98	22	--	--		
Barrier Type 736B Location	1324-139	1324-139-0	0 to 2 inches	6/25/2016	220 J	11 J	--	--	Z2	Z2
	1324-140	1324-140-0	0 to 2 inches	6/25/2016	830	59	0.25	6.4 J		
		1324-140-1.5	1.0 to 1.5	6/25/2016	110	6.5	--	--		
Barrier Type 736B Location	1324-141	1324-141-0	0 to 2 inches	6/25/2016	1100 J	61	0.95	7.1 J	Z2	Z2
		1324-141-1.5	1.0 to 1.5	6/25/2016	190 J	7.7	--	--		
	1324-142	1324-142-0	0 to 2 inches	6/25/2016	630	44	1.6	7.0 J		
		1324-142-1.5	1.0 to 1.5	6/25/2016	390	4.2	--	--		
Barrier Type 736B Location	1324-143	1324-143-0	0 to 2 inches	6/25/2016	140	7.1	--	--	Z2	Unrestricted Use
		1324-143-1.5	1.0 to 1.5	6/25/2016	76	4.1	--	--		
	1324-144	1324-144-0	0 to 2 inches	6/25/2016	510 J	21	0.35	5.3		
		1324-144-1.5	1.0 to 1.5	6/25/2016	53 J	2.0	--	--		
Vegetation Control Area	1324-145	1324-145-0	0 to 2 inches	6/25/2016	470 J	39	0.26	6.8 J	Z2	--
	1324-146	1324-146-0	0 to 2 inches	6/25/2016	120	5.5	--	--		
Barrier Type 736B Location	1324-147	1324-147-0	0 to 2 inches	6/25/2016	62 J	2.4	--	--	Z2	Unrestricted Use
		1324-147-1.5	1.0 to 1.5	6/25/2016	17 J	0.43	--	--		
	1324-148	1324-148-0	0 to 2 inches	6/25/2016	310	16	--	--		
		1324-148-1.5	1.0 to 1.5	6/25/2016	55	1.7	--	--		
Barrier Type 736B Location	1324-149	1324-149-0	0 to 2 inches	6/25/2016	450 J	25	0.21 NJ	5.4	Z2	Z2
		1324-149-1.5	1.0 to 1.5	6/25/2016	960 J	43	0.83	5.6 J		
	1324-150	1324-150-0	0 to 2 inches	6/25/2016	1200	78	2.0	7.7 J		
		1324-150-1.5	1.0 to 1.5	6/25/2016	150	6.7	--	--		
Barrier Type 736B Location	1324-151	1324-151-0	0 to 2 inches	6/25/2016	1400 J	81	2.1	6.7 J	Z2	Z2
		1324-151-1.5	1.0 to 1.5	6/25/2016	230 J	8.7	--	--		
	1324-152	1324-152-0	0 to 2 inches	6/25/2016	2700	150	2.2	6.4 J		
		1324-152-1.5	1.0 to 1.5	6/25/2016	400	28	--	--		
Vegetation Control Area	1324-153	1324-153-0	0 to 2 inches	6/25/2016	1400 J	82	1.7	6.9 J	Z2	--
	1324-154	1324-154-0	0 to 2 inches	6/25/2016	190	14	--	--		
Vegetation Control Area	1324-155	1324-155-0	0 to 2 inches	6/25/2016	510 J	25	0.11 NJ	6.4 J	Z2	--
	1324-156	1324-156-0	0 to 2 inches	6/25/2016	540	69	0.12 NJ	7.1 J		
Vegetation Control Area	1324-157	1324-157-0	0 to 2 inches	6/25/2016	590 J	52	0.79	7.0 J	Z2	--
	1324-158	1324-158-0	0 to 2 inches	6/25/2016	3500	200	2.8	7.0 J		
Vegetation Control Area	1324-159	1324-159-0	0 to 2 inches	6/25/2016	210 J	11	--	--	Z2	--
	1324-160	1324-160-0	0 to 2 inches	6/25/2016	110	6.4	--	--		

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD and pH
SITE INVESTIGATION FOR AERIALLY DEPOSITED LEAD
LA-5, PM 13.7/26.7
EA: 305501 (E-FIS: 07-1400-0101)
TASK ORDER #3 CONTRACT 07A3963

AREA	BORING	CALTRANS UNIQUE SAMPLE ID[1]	SAMPLE DEPTH (feet bgs)	SAMPLE DATE	TOTAL LEAD[2] (mg/kg)	SOLUBLE LEAD[2] Cal WET-Citric (mg/L)	SOLUBLE LEAD[2] TCLP (mg/L)	pH[3]	SOIL CLASSIFICATION FOR DISPOSAL[5]	
									SHALLOW SOILS	DEEP SOILS
QA/QC (mg/L)										
EBA-062516					<0.0028	--	--	--	--	--
EBB-062516					<0.0028	--	--	--	--	--
EBA-062616					<0.0028	--	--	--	--	--
EBB-062616					<0.0028	--	--	--	--	--
Minimum					17	0.43	0.092	5.3	--	--
Maximum					5000	510	14	7.9	--	--
Type C Material[4] Non Hazardous					80<TL<320	and <5	<5	>5	--	--
Type R1 Material[4] California Non-RCRA Hazardous Waste					320<TL≤1600	or >5	<5	>5	--	--
Type R2 Material[4] California Non-RCRA Hazardous Waste					1600<TL≤3200	or >5	<5	>5	--	--
Type Z0 Material[4] Class II Disposal					320<TL<1000	and <5	<5	≤5	--	--
Type Z2 Material[4] Class I Disposal - California Non-RCRA Hazardous Waste					>1000	or >5	<5	≤5	--	--
Type Z3 Material[4] Class I Disposal - RCRA Hazardous Waste					--	--	≥5	≤5	--	--
DTSC HERO Screening Levels - Industrial Soils[5]					≤320	and <5	--	--	--	--
DTSC HERO Unrestricted Use SL[5]					≤80	and <5	--	--	--	--

NOTES:

(1) - Boring identification number/Caltrans Unique ID assigned

(2) - Total Lead, California Waste Extraction Test (Cal WET - Citric and Cal WET-DI), and Toxicity Characteristic Leaching Procedure (TCLP) analysis using EPA Method 6010B. Extraction methods vary.

(3) - pH determined with EPA Method 9045C.

(4) - California Department of Transportation (Caltrans) and California Department of Toxic Substances Control (DTSC) 2016 Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils (Agreement) dated June 29, 2016.

(5) - California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), Human Health Risk Assessment (HHRA) Note 3, DTSC-modified Screening Levels (DTSC-SLs) for Lead (in mg/kg) for industrial soil, January 2016.

bgs = below ground surface

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

PM = post mile

-- = Not analyzed or not applicable

<0.0014 = Analyte not reported at or above stated detection limit

Bold = Exceeds threshold limit

NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

QA/QC samples consisted of liquid equipment blanks (EB)

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS - TITLE 22 METALS
SITE INVESTIGATION FOR AERIALLY DEPOSITED LEAD
LA-5, PM 13.7/26.7
EA: 305501 (E-FIS: 07-1400-0101)
TASK ORDER #3 CONTRACT 07A3963

BORING	CALTRANS UNIQUE SAMPLE ID[1]	SAMPLE DEPTH[2]	SAMPLE DATE	TITLE 22 METALS (USEPA Test Method 6010B/7000)															
				ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CHROMIUM	COBALT	COPPER	MOLYBDENUM	NICKEL	SELENIUM	SILVER	THALLIUM	VANADIUM	ZINC	MERCURY
			Regional Screening Levels [3] / *DTSC HERO Screening Levels - Industrial Soils [4]*	*470*	*0.36*	*220,000*	*210*	*7.3*	*170,000*	*350*	*47,000*	*5,800*	*3,100*	*5,800*	*1,500*	*12*	*1,000*	*350,000*	*5*
			California TTLC (mg/kg)	*500*	*500*	*10,000*	*75*	*100*	*2,500*	*8,000*	*2,500*	*3,500*	*2,000*	*100*	*500*	*700*	*2,400*	*5,000*	*20*
			10 x California STLC (mg/kg)	*150*	*50*	*1,000*	*7.5*	*10*	*50*	*800*	*250*	*3,500*	*200*	*10*	*50*	*70*	*240*	*2,500*	*2*
			20 x RCRA Toxicity Charateristic (mg/kg)	*--*	*100*	*2,000*	*--*	*20*	*100*	*--*	*--*	*--*	*--*	*20*	*100*	*--*	*--*	*--*	*4*
LA-5 (PM 13.7/26/7)																			
1324-107	1324-107-0	0 to 2 inches	6/26/2016	0.78 NJ	**5.1**	150	<0.04	1.2	28	5.7	140	2.6	23	<0.88	<0.04	<0.42	26	430	0.08 NJ
1324-109	1324-109-0	0 to 2 inches	6/26/2016	1.2 NJ	**6.4**	350	<0.04	3.2	40	6.9	170	6.4	36	<0.88	<0.04	<0.42	30	870	0.25
1324-110	1324-110-0	0 to 2 inches	6/26/2016	1.2 NJ	**6.7**	280	0.05 NJ	1.9	32	7.3	120	4.1	23	<0.88	<0.04	<0.42	34	580	0.16
1324-111	1324-111-0	0 to 2 inches	6/26/2016	1.3 NJ	**6.5**	230	<0.04	1.9	32	6.8	120	4.4	22	<0.88	<0.04	<0.42	28	600	0.20
1324-117	1324-117-0	0 to 2 inches	6/26/2016	2.0	**5.6**	210	<0.04	1.8	36	5.9	120	6.6	25	<0.88	<0.04	<0.42	23	730	0.31
1324-118	1324-118-0	0 to 2 inches	6/26/2016	0.84 NJ	**5.8**	200	<0.04	1.3	29	6.8	93	4.2	21	<0.88	<0.04	<0.42	27	700	0.10 NJ
1324-119	1324-119-0	0 to 2 inches	6/26/2016	0.90 NJ	**8.0**	320	<0.04	2.8	**61**	6.1	**360**	8.8	39	<0.88	<0.04	<0.42	26	1000	0.22
1324-120	1324-120-0	0 to 2 inches	6/26/2016	3.6	**5.8**	480	<0.04	2.9	43	7.1	**250**	11	32	<0.88	<0.04	<0.42	27	1800	0.14
1324-123	1324-123-0	0 to 2 inches	6/25/2016	<0.32	**8.0**	150 J	<0.04	0.93 NJ	20	4.9	51	2.0	13	<0.88	<0.04	<0.42	25	440	0.09 NJ
1324-124	1324-124-0	0 to 2 inches	6/25/2016	1.5 NJ	**7.4**	180	0.05 NJ	0.93 NJ	20	4.9	93	4.3	14	<0.88	<0.04	<0.42	23	540	0.12 J
1324-131	1324-131-0	0 to 2 inches	6/26/2016	5.2	**9.7**	380	<0.04	4.9 J	46	6.5	**340** J	8.2	34	<0.88	<0.04	<0.42	28	1200	1.2
1324-133	1324-133-0	0 to 2 inches	6/25/2016	0.61 NJ	**6.3**	210 J	<0.04	2.3	37	8.4	**310**	4.5	29	<0.88	<0.04	<0.42	39	740	0.21
1324-135	1324-135-0	0 to 2 inches	6/25/2016	0.71 NJ	**6.3**	170 J	<0.04	2.1	25	6.2	120	3.0	23	<0.88	<0.04	<0.42	27	830	0.15
1324-136	1324-136-1.5	1.0 to 1.5	6/25/2016	0.83 NJ	**6.7**	160	0.13 NJ	2.2	25	5.9	130	4.1	21	<0.88	<0.04	<0.42	25	560	0.15
1324-137	1324-137-0	0 to 2 inches	6/25/2016	1.6 NJ	**5.3**	220	0.12 NJ	1.6	35	7.2	120	3.9	30	<0.88	<0.04	<0.42	23	660	0.16 J
1324-140	1324-140-0	0 to 2 inches	6/25/2016	1.8 NJ	**4.8**	160	<0.04	1.2	26	5.4	81	3.3	18	<0.88	<0.04	<0.42	23	510	0.14
1324-141	1324-141-0	0 to 2 inches	6/25/2016	1.4 NJ	**7.3**	210	0.72 NJ	2.6	30	7.1	110	3.5	63	<0.88	<0.04	<0.42	30	470	0.18 J
1324-142	1324-142-0	0 to 2 inches	6/25/2016	0.90 NJ	**5.7**	170	<0.04	1.5	24	6.1	100	2.4	21	<0.88	<0.04	<0.42	26	470	0.08 NJ
1324-144	1324-144-0	0 to 2 inches	6/25/2016	0.60 NJ	**4.3**	130	0.18 NJ	0.78 NJ	16	4.1	45 J	2.0 J	11	<0.88	<0.04	<0.42	24	270	0.28 J
1324-145	1324-145-0	0 to 2 inches	6/25/2016	1.2 NJ	**6.1**	290	0.08 NJ	2.5	36	7.3	470	4.6	26	<0.88	<0.04	<0.42	29	950	0.13 J
1324-149	1324-149-0	0 to 2 inches	6/25/2016	1.5 NJ	**4.7**	230	<0.04	1.9	28	7.1	110	4.4	21	<0.88	<0.04	<0.42	28	510	0.17 J
1324-149	1324-149-1.5	1.0 to 1.5	6/25/2016	0.44 NJ	**4.5**	160 J	0.06 NJ	1.8	18	6.5	62	1.4	16	<0.88	<0.04	<0.42	26	300	0.14
1324-150	1324-150-0	0 to 2 inches	6/25/2016	<0.32	**5.3**	240	0.19 NJ	2.7	18	4.6	65	3.1	14	<0.88	<0.04	<0.42	23	410	0.11
1324-151	1324-151-0	0 to 2 inches	6/25/2016	<0.32	**7.0**	280	<0.04	2.2	26	6.3	120	2.1	21	<0.88	<0.04	<0.42	28	480	0.19 J
1324-152	1324-152-0	0 to 2 inches	6/25/2016	0.67 NJ	**6.6**	410	<0.04	4.2	30	6.4	150	3.5	26	<0.88	<0.04	<0.42	29	780	0.30
1324-153	1324-153-0	0 to 2 inches	6/25/2016	0.41 NJ	**4.9**	200	<0.04	1.4	29	7.7	**260**	4.0	21	<0.88	<0.04	<0.42	28	600	0.12 J
1324-155	1324-155-0	0 to 2 inches	6/25/2016	1.3 NJ	**3.6**	190	<0.04	3.1	19	5.7	88	1.8	18	<0.88	<0.04	<0.42	26	690	0.61 J
1324-156	1324-156-0	0 to 2 inches	6/25/2016	0.78 NJ	**3.9**	170	<0.04	1.6	20	5.9	94	1.2	16	<0.88	<0.04	<0.42	28	520	0.20
1324-157	1324-157-0	0 to 2 inches	6/25/2016	<0.32	**5.5**	110	<0.04	1.7	19	5.5	140	0.86 NJ	14	<0.88	<0.04	<0.42	26	480	0.12 J
1324-158	1324-158-0	0 to 2 inches	6/25/2016	0.84 NJ	**7.9**	180	<0.04	3.2	43	5.6	240 J	3.7 J	27 J	<0.88	<0.04	<0.42	36 J	960	0.29

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS - TITLE 22 METALS
SITE INVESTIGATION FOR AERIALLY DEPOSITED LEAD
LA-5, PM 13.7/26.7
EA: 305501 (E-FIS: 07-1400-0101)
TASK ORDER #3 CONTRACT 07A3963

BORING	CALTRANS UNIQUE SAMPLE ID[1]	SAMPLE DEPTH[2]	SAMPLE DATE	TITLE 22 METALS (USEPA Test Method 6010B/7000)															
				ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CHROMIUM	COBALT	COPPER	MOLYBDENUM	NICKEL	SELENIUM	SILVER	THALLIUM	VANADIUM	ZINC	MERCURY
Regional Screening Levels[3] / *DTSC HERO Screening Levels - Industrial Soils[4]*				*470*	*0.36*	*220,000*	*210*	*7.3*	*170,000*	*350*	*47,000*	*5,800*	*3,100*	*5,800*	*1,500*	*12*	*1,000*	*350,000*	*5*
California TTLC (mg/kg)				*500*	*500*	*10,000*	*75*	*100*	*2,500*	*8,000*	*2,500*	*3,500*	*2,000*	*100*	*500*	*700*	*2,400*	*5,000*	*20*
10 x California STLC (mg/kg)				*150*	*50*	*1,000*	*7.5*	*10*	*50*	*800*	*250*	*3,500*	*200*	*10*	*50*	*70*	*240*	*2,500*	*2*
20 x RCRA Toxicity Charateristic (mg/kg)				*--*	*100*	*2,000*	*--*	*20*	*100*	*--*	*--*	*--*	*--*	*20*	*100*	*--*	*--*	*--*	*4*
LA-5 (PM 13.7/26/7)																			
QA/QC (mg/L)																			
	EBA-062516		6/25/2016	<0.0021	<0.0067	<0.0008	<0.0004	0.0002 NJ	<0.0016	<0.0007	<0.0023	0.0007 UJB	<0.0024	0.0036 NJB	<0.0006	<0.0026	<0.0011	0.0088 NJB	<0.13
	EBA-062616		6/26/2016	<0.0021	<0.0067	<0.0008	<0.0004	<0.0002	<0.0016	<0.0007	<0.0023	<0.0007	<0.0024	<0.0034	<0.0006	<0.0026	<0.0011	0.0065 NJB	<0.13
	EBB-062516		6/25/2016	<0.0021	<0.0067	<0.0008	<0.0004	<0.0002	<0.0016	<0.0007	<0.0023	<0.0007	<0.0024	<0.0034	<0.0007 UJB	<0.0026	<0.0011	0.0042 NJB	<0.13
	EBB-062616		6/26/2016	<0.0021	<0.0067	<0.0008	<0.0004	<0.0002	<0.0016	<0.0007	<0.0023	0.0009 NJB	<0.0024	<0.0034	<0.0006	<0.0026	<0.0011	0.0046 NJB	<0.13

NOTES:

(1) - Boring identification number/Caltrans Unique ID assigned
(2) - Sample depth reported in feet below the ground surface
(3) - United States Environmental Protection Agency (Region 9) Regional Screening Levels (RSLs; in mg/Kg) for industrial soil (last updated May 2016). Lowest level of the RSLs and DTSC HERO screening levels for cancer and non-cancer presented.
(4) - California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), Human Health Risk Assessment (HHRA) Note 3, DTSC-modified Screening Levels (DTSC-SLs) for industrial soil (in mg/kg; last updated June 2016). Lowest level of the RSLs and DTSC HERO screening levels for cancer and non-cancer presented.
All soil results in mg/Kg
<0.5 - Analyte not reported at or above stated reporting limit
-- = Not analyzed or not applicable
Bold = Exceeds threshold limit
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
RCRA = Resource Conservation and Recovery Act
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
B = The analyte was detected in the method, field and/or trip blank.
QA/QC samples consisted of liquid equipment blanks (EB)

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. MGS DELINEATION (FLEXIBLE POST) PER SP A77N4 MUST BE INSTALLED ON MGS WITH SPACING 12.5'.
3. LOCATIONS OF WORK THAT ARE FLEXIBLE MAYBE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES WERE ONLY INVESTIGATED WITHIN 5-FOOT RADIUS OF PROPOSED TRANSITION RAILINGS AND CONCRETE ANCHOR BLOCKS.
4. PROTECT IN PLACE COMMUNICATION CONDUITS AND UTILITIES, SEE CONSTRUCTION DETAILS FOR TYPICAL MGS AND BARRIER APPLICATIONS.
5. SEE SUMMARY OF QUANTITIES FOR MIDWEST GUARDRAIL SYSTEM AND CONCRETE BARRIER LOCATIONS.
6. ALL EXISTING SIGNS WILL REMAIN UNLESS OTHERWISE NOTED.
9. INSTALLATION OF TERMINAL SYSTEM IMPACT HEAD PER STATE AND MANU
10. FOR ANCHOR BLOCK DETAILS, SEE

CURVE DATA

No.	R	Δ	T	L
1	2000'	15°45'36"	276.81'	550.12'
2	800'	48°30'26"	360.44'	677.29'

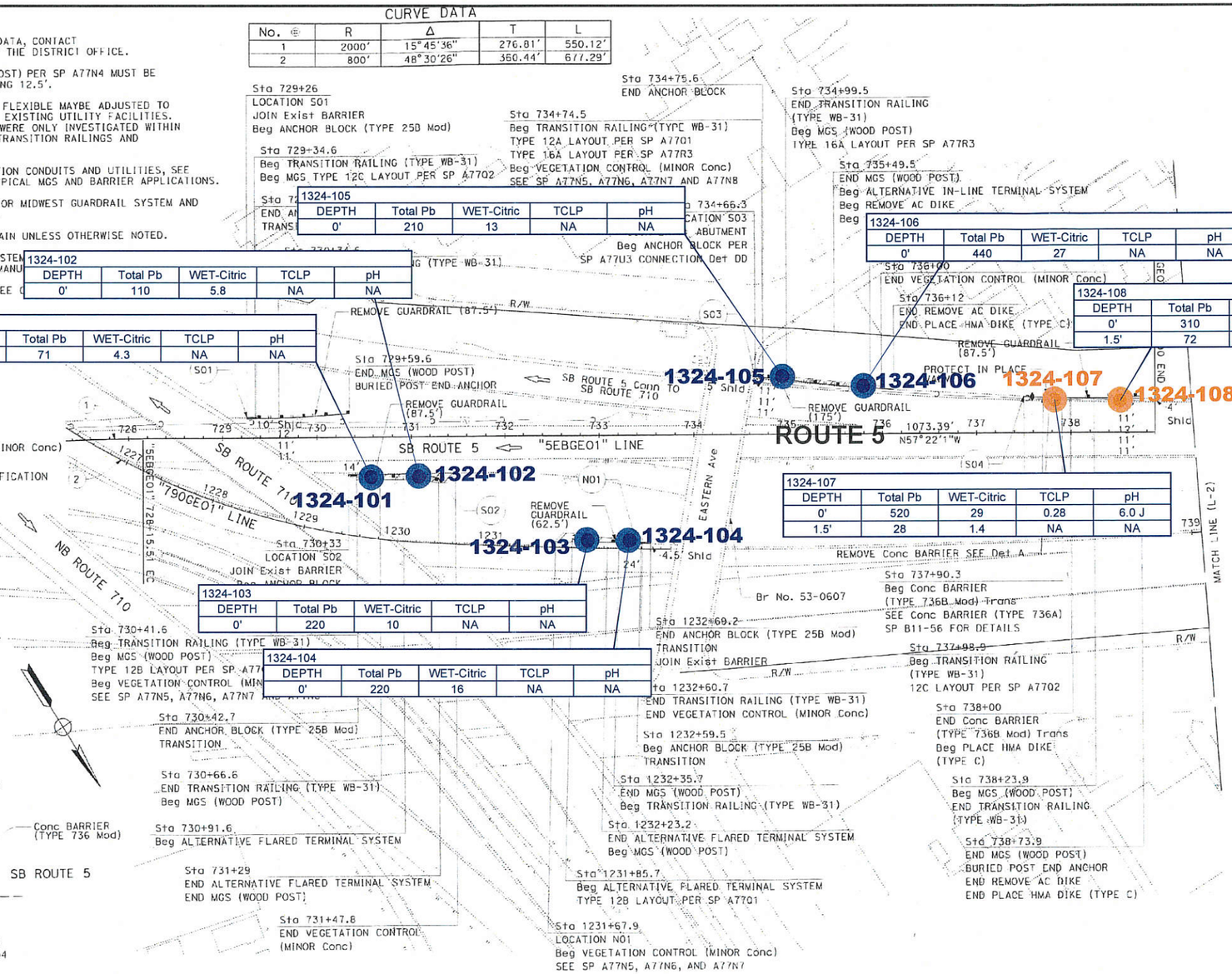
LEGEND:

- S## SOUTHBOUND LOCATIONS
- N## NORTHBOUND LOCATIONS
- VEGETATION CONTROL (MINOR Conc)
- No. ROADSIDE SIGN INDENTIFICATION (WITH NUMBER)
- I INSTALL SIGN
- R REMOVE SIGN

ABBREVATION:

SP - STANDARD PLAN(S)

MWD -



1324-101				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	71	4.3	NA	NA

1324-102				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	110	5.8	NA	NA

1324-103				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	220	10	NA	NA

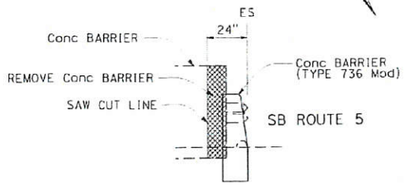
1324-104				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	220	16	NA	NA

1324-105				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	210	13	NA	NA

1324-106				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	440	27	NA	NA

1324-107				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	520	29	0.28	6.0 J
1.5'	28	1.4	NA	NA

1324-108				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	310	17	NA	NA
1.5'	72	3.3	NA	NA



DETAIL A
LOCATION S04

LEGEND

- VEGETATION CONTROL AREA SAMPLE LOCATION
- BARRIER TYPE 736B SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

NOT TO SCALE

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-1

FIGURE: 2

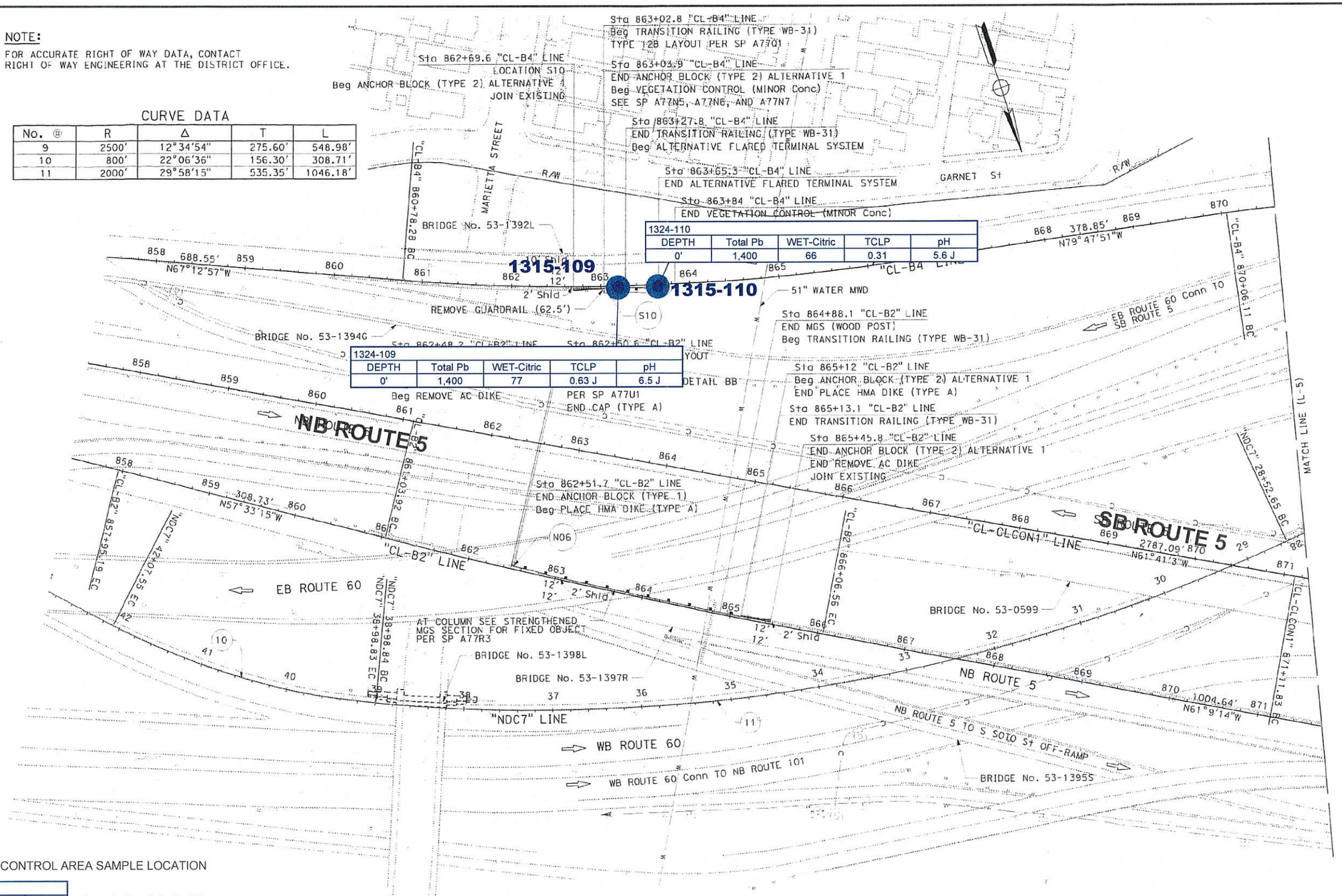
JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. ⊕	R	Δ	T	L
9	2500'	12°34'54"	275.60'	548.98'
10	800'	22°06'36"	156.30'	308.71'
11	2000'	29°58'15"	535.35'	1046.18'



1324-110				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	1,400	66	0.31	5.6 J

1324-109				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	1,400	77	0.63 J	6.5 J

LEGEND

● VEGETATION CONTROL AREA SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

N
NOT TO SCALE

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

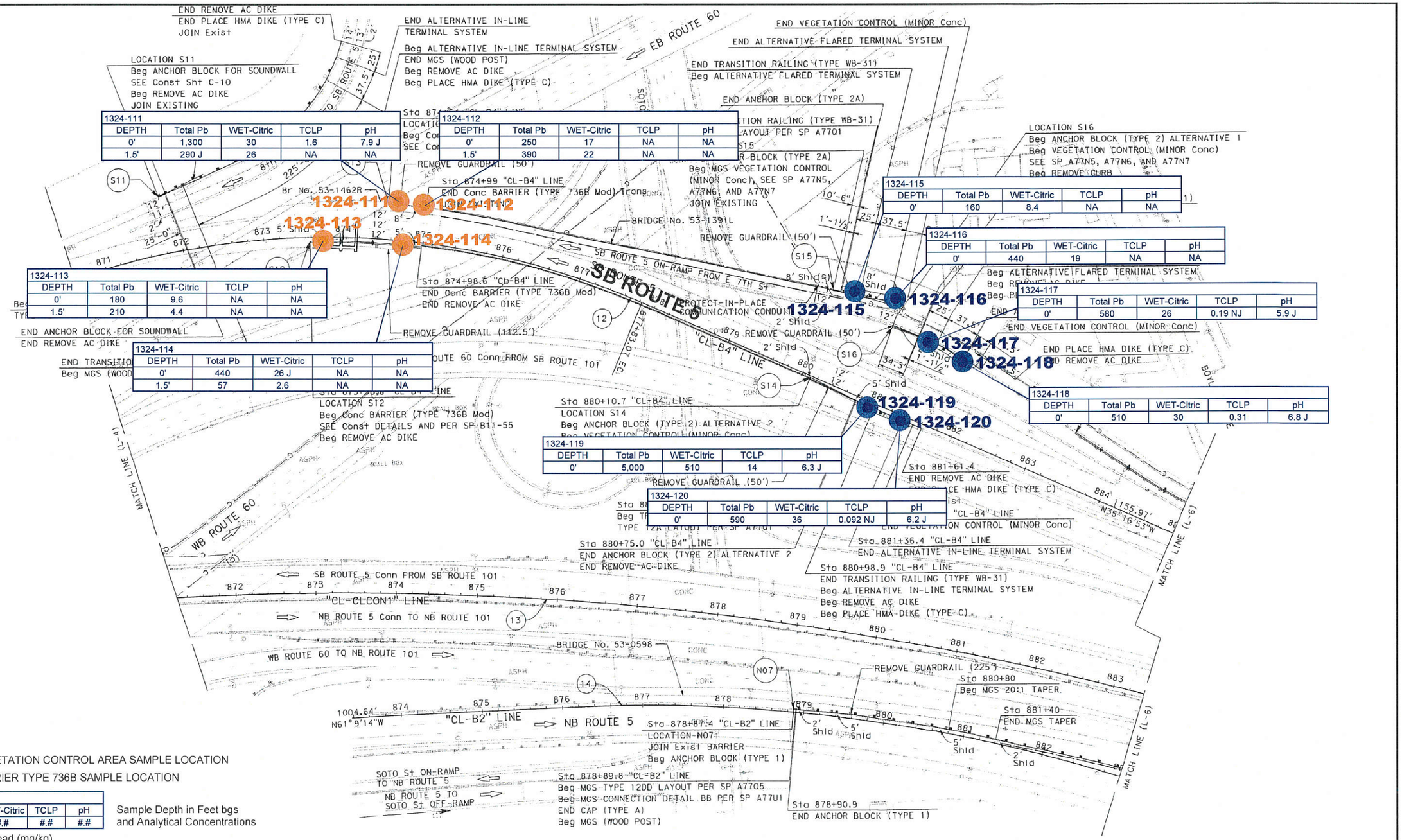
FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-4

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

FILEPATH:F:\1858\active\185832103\03_data\gis_cad\cad\07A3963_TO3.dwg|troman|Aug 02, 2016 at 13:23|Layout: F3



1324-111				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	1,300	30	1.6	7.9 J
1.5'	290 J	26	NA	NA

1324-112				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	250	17	NA	NA
1.5'	390	22	NA	NA

1324-113				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	180	9.6	NA	NA
1.5'	210	4.4	NA	NA

1324-114				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	440	26 J	NA	NA
1.5'	57	2.6	NA	NA

1324-115				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	160	8.4	NA	NA

1324-116				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	440	19	NA	NA

1324-117				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	580	26	0.19 NJ	5.9 J

1324-118				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	510	30	0.31	6.8 J

1324-119				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	5,000	510	14	6.3 J

1324-120				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	590	36	0.092 NJ	6.2 J

LEGEND

- VEGETATION CONTROL AREA SAMPLE LOCATION
- BARRIER TYPE 736B SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

NOT TO SCALE

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

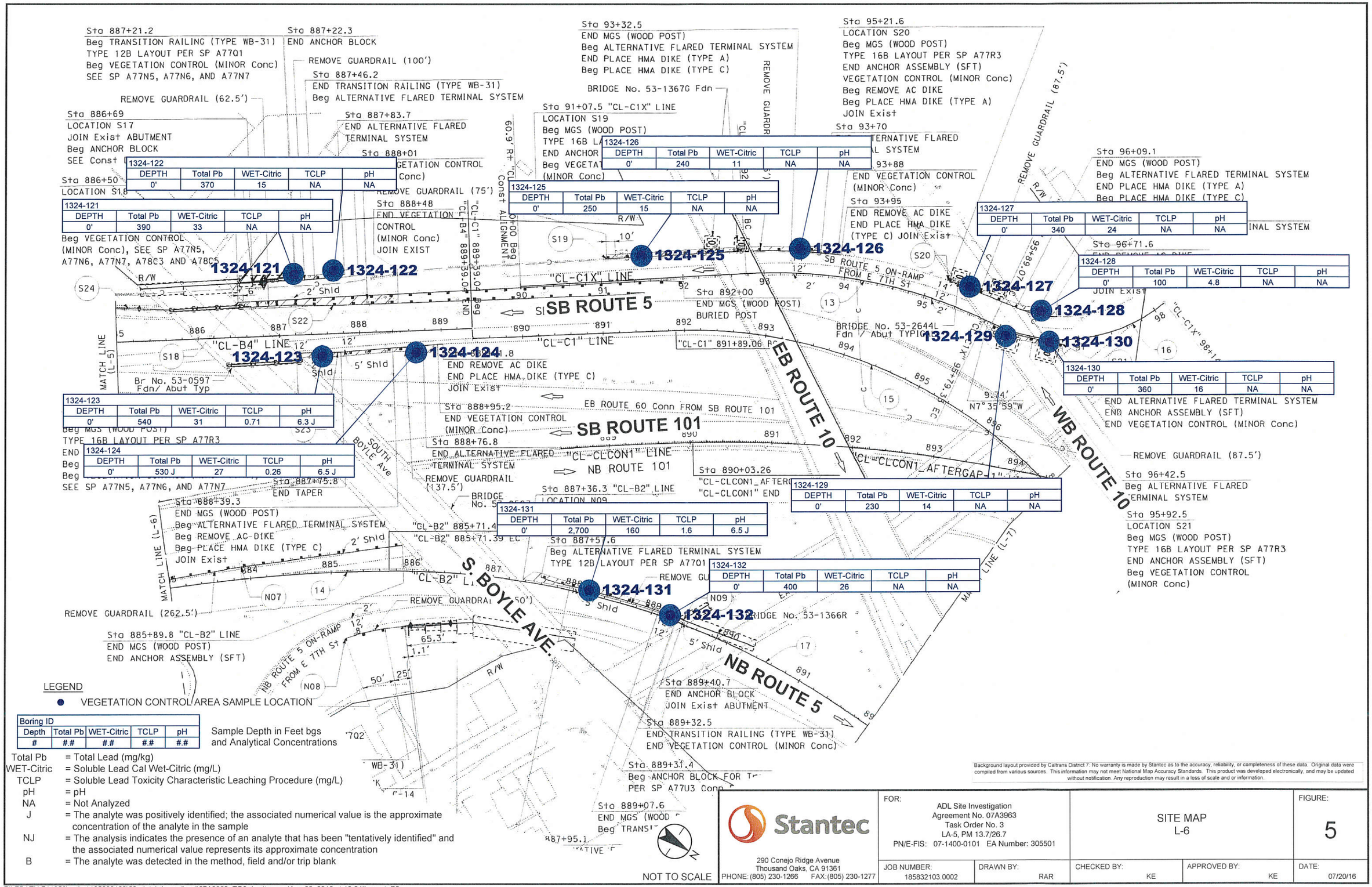
FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-5

FIGURE: 4

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

FILEPATH:F:\1858\active\185832103\03_data\gis_cad\cad\07A3963_TO3.dwg|troman|Aug 02, 2016 at 13:24|Layout: F4



1324-122				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	370	15	NA	NA

1324-121				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	390	33	NA	NA

1324-126				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	240	11	NA	NA

1324-125				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	250	15	NA	NA

1324-127				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	340	24	NA	NA

1324-128				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	100	4.8	NA	NA

1324-130				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	360	16	NA	NA

1324-123				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	540	31	0.71	6.3 J

1324-124				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	530 J	27	0.26	6.5 J

1324-129				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	230	14	NA	NA

1324-131				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	2,700	160	1.6	6.5 J

1324-132				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	400	26	NA	NA

LEGEND

● VEGETATION CONTROL AREA SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-6

FIGURE: 5

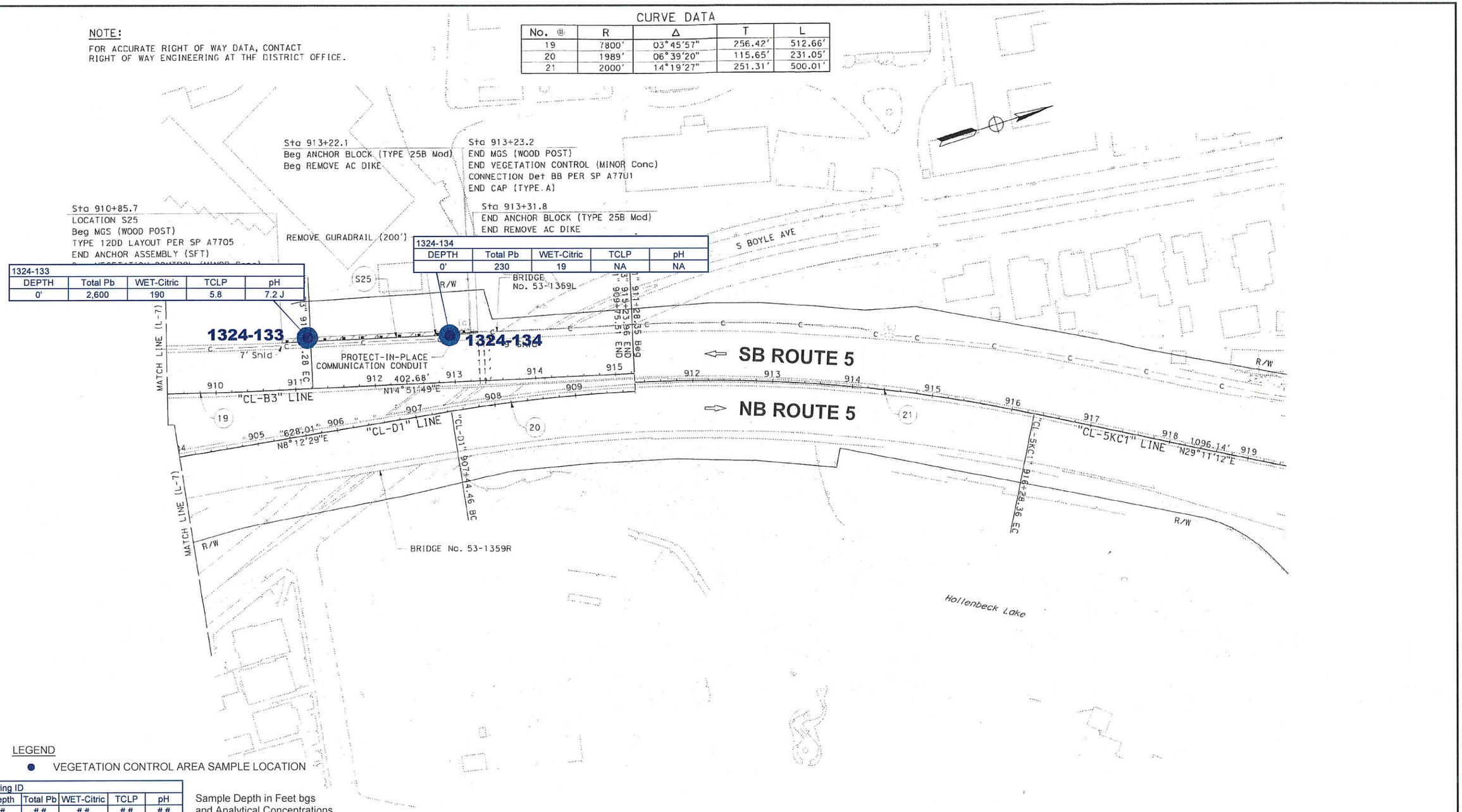
JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. ⊕	R	Δ	T	L
19	7800'	03°45'57"	256.42'	512.66'
20	1989'	06°39'20"	115.65'	231.05'
21	2000'	14°19'27"	251.31'	500.01'



1324-133				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	2,600	190	5.8	7.2 J

1324-134				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	230	19	NA	NA

LEGEND

● VEGETATION CONTROL AREA SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs
and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

NOT TO SCALE

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-8

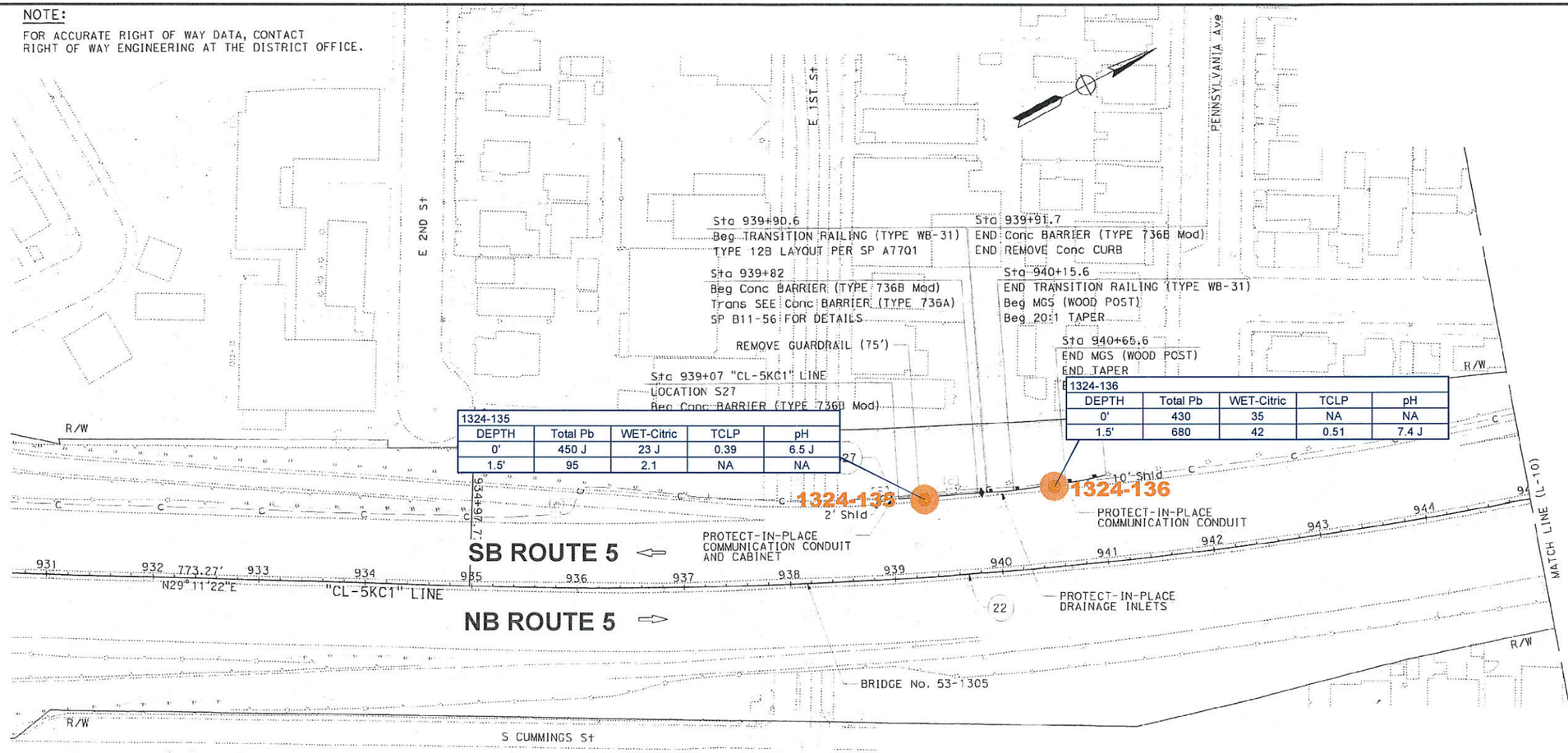
FIGURE: 6

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

FILEPATH:F:\1858\active\185832103\03_data\gis_cad\cad\07A3963_TO3.dwg|troman|Aug 02, 2016 at 13:24|Layout: F6

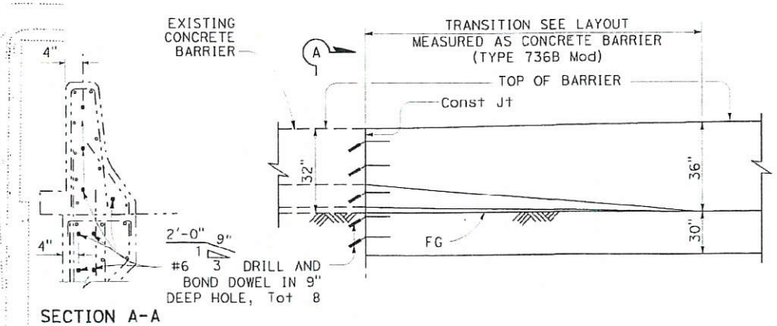
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



1324-135				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	450 J	23 J	0.39	6.5 J
1.5'	95	2.1	NA	NA

1324-136				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	430	35	NA	NA
1.5'	680	42	0.51	7.4 J



LEGEND

● BARRIER TYPE 736B SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

NOT TO SCALE

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-9

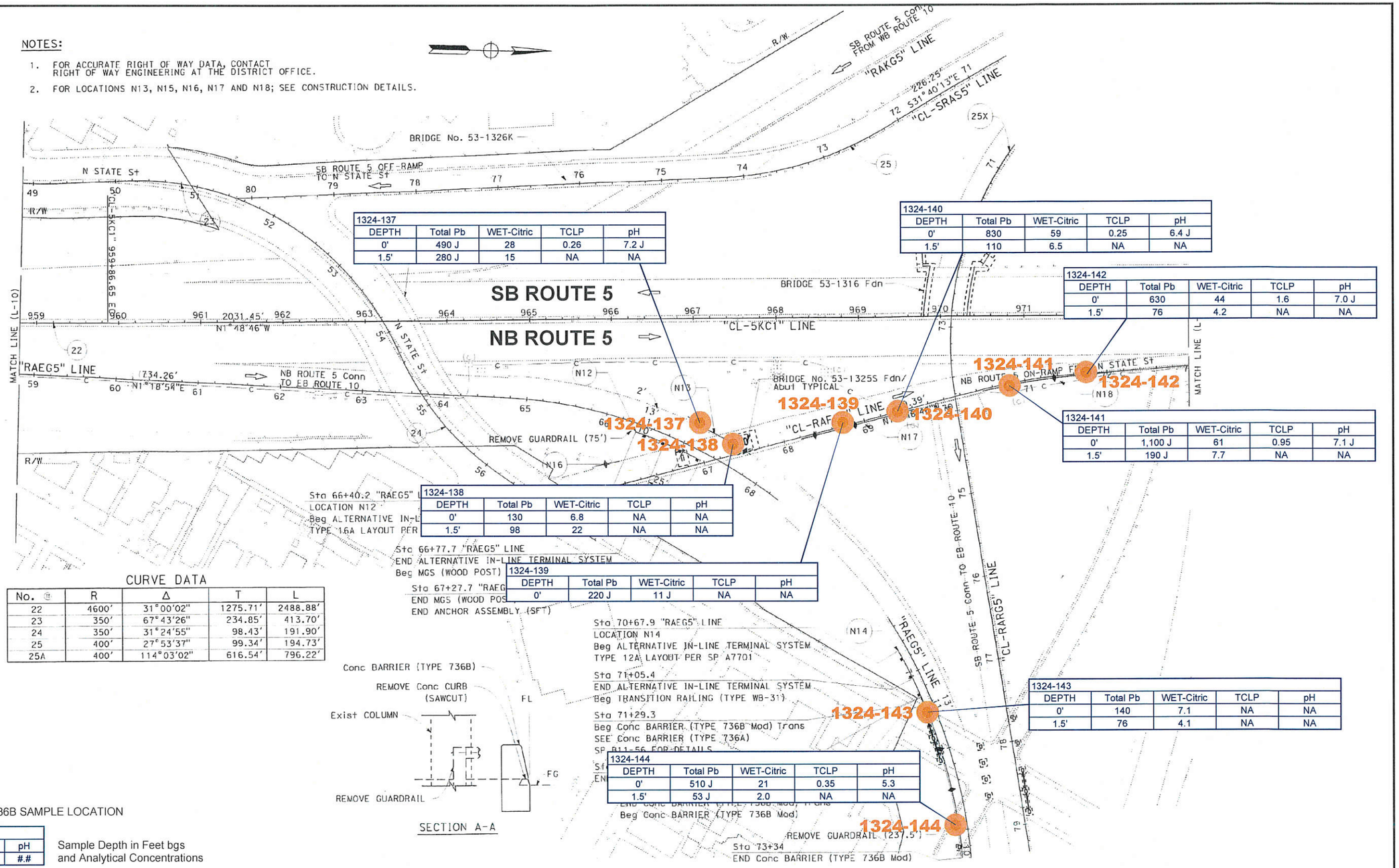
FIGURE: 7

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

FILEPATH:F:\1858\active\185832103\03_data\gis_cad\cad\07A3963_TO3.dwg|troman|Aug 02, 2016 at 13:25|Layout: F7

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR LOCATIONS N13, N15, N16, N17 AND N18; SEE CONSTRUCTION DETAILS.



1324-137				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	490 J	28	0.26	7.2 J
1.5'	280 J	15	NA	NA

1324-138				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	130	6.8	NA	NA
1.5'	98	22	NA	NA

1324-139				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	220 J	11 J	NA	NA

1324-140				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	830	59	0.25	6.4 J
1.5'	110	6.5	NA	NA

1324-141				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	1,100 J	61	0.95	7.1 J
1.5'	190 J	7.7	NA	NA

1324-142				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	630	44	1.6	7.0 J
1.5'	76	4.2	NA	NA

1324-143				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	140	7.1	NA	NA
1.5'	76	4.1	NA	NA

1324-144				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	510 J	21	0.35	5.3
1.5'	53 J	2.0	NA	NA

CURVE DATA

No.	R	Δ	T	L
22	4600'	31°00'02"	1275.71'	2488.88'
23	350'	67°43'26"	234.85'	413.70'
24	350'	31°24'55"	98.43'	191.90'
25	400'	27°53'37"	99.34'	194.73'
25A	400'	114°03'02"	616.54'	796.22'

LEGEND

● BARRIER TYPE 736B SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

NOT TO SCALE

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-11

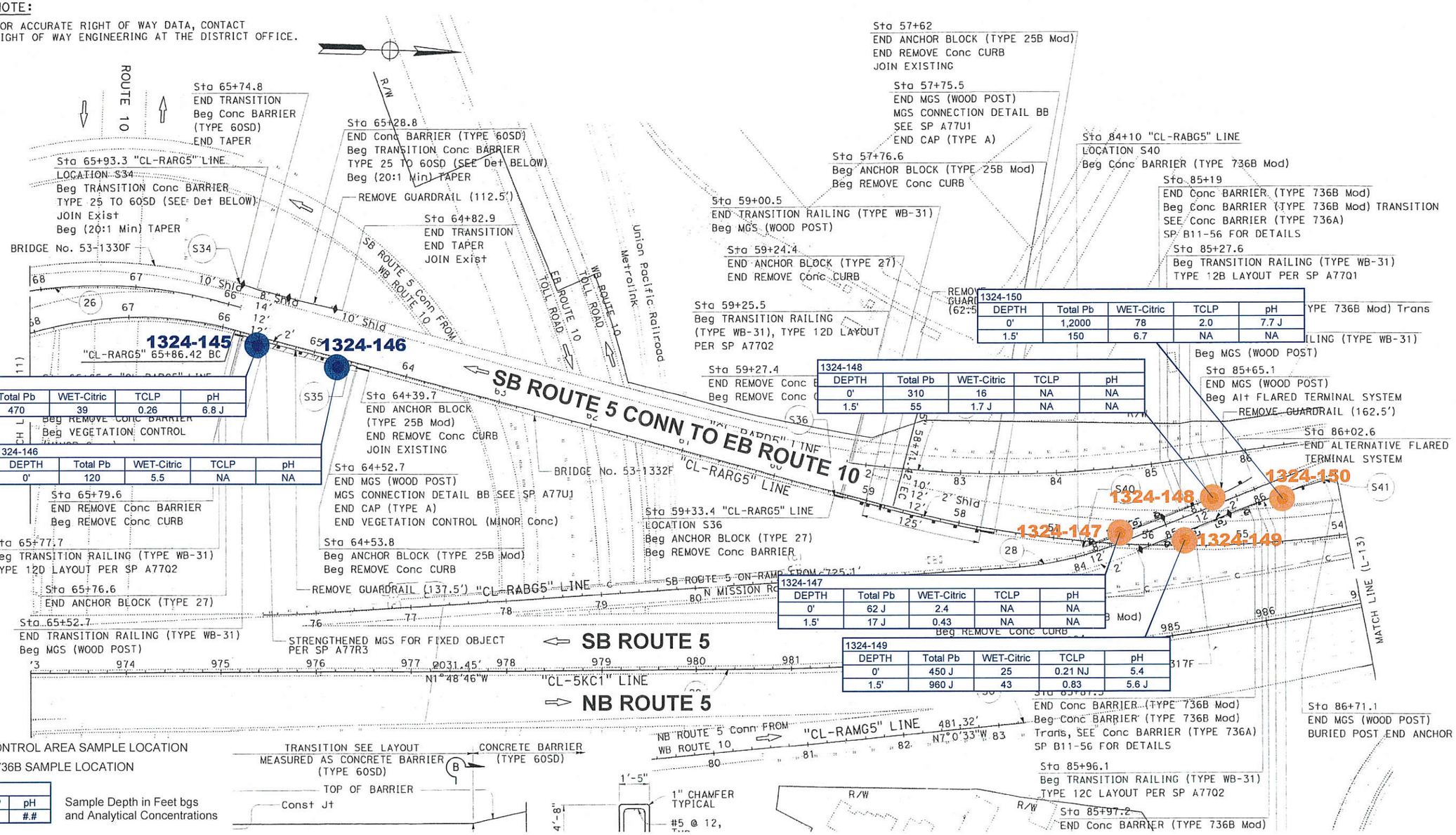
FIGURE: 8

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

FILEPATH:F:\1858\active\185832103\03_data\gis_cad\cad\07A3963_TO3.dwg|troman|Aug 02, 2016 at 13:25|Layout: F8

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



1324-145				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	470	39	0.26	6.8 J

1324-146				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	120	5.5	NA	NA

1324-150				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	1,2000	78	2.0	7.7 J
1.5'	150	6.7	NA	NA

1324-148				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	310	16	NA	NA
1.5'	55	1.7 J	NA	NA

1324-147				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	62 J	2.4	NA	NA
1.5'	17 J	0.43	NA	NA

1324-149				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	450 J	25	0.21 NJ	5.4
1.5'	960 J	43	0.83	5.6 J

LEGEND

- VEGETATION CONTROL AREA SAMPLE LOCATION
- BARRIER TYPE 736B SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

NOT TO SCALE

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-12

FIGURE: 9

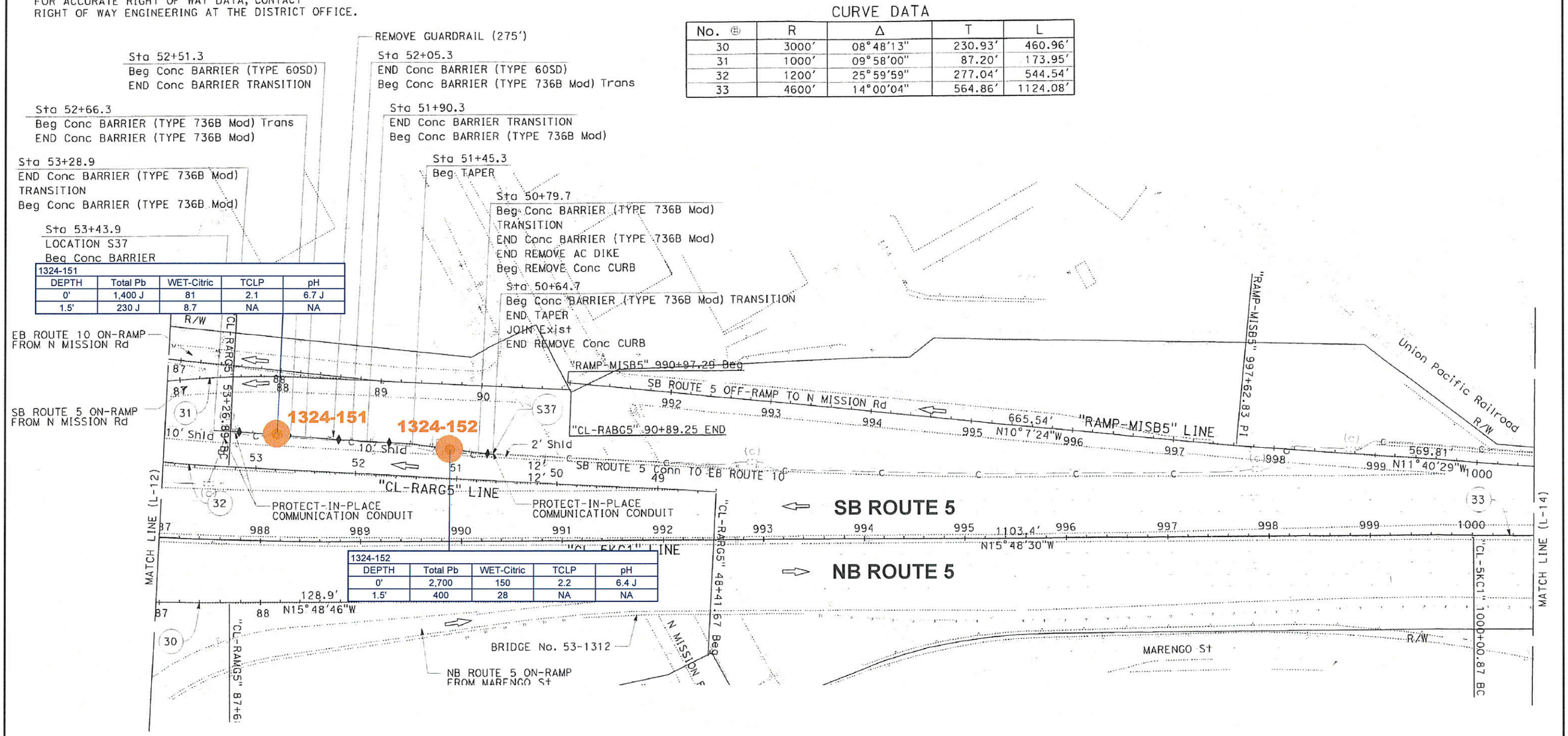
JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. ⊕	R	Δ	T	L
30	3000'	08°48'13"	230.93'	460.96'
31	1000'	09°58'00"	87.20'	173.95'
32	1200'	25°59'59"	277.04'	544.54'
33	4600'	14°00'04"	564.86'	1124.08'



1324-151				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	1,400 J	81	2.1	6.7 J
1.5'	230 J	8.7	NA	NA

1324-152				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	2,700	150	2.2	6.4 J
1.5'	400	28	NA	NA

LEGEND

● BARRIER TYPE 736B SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

NOT TO SCALE

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

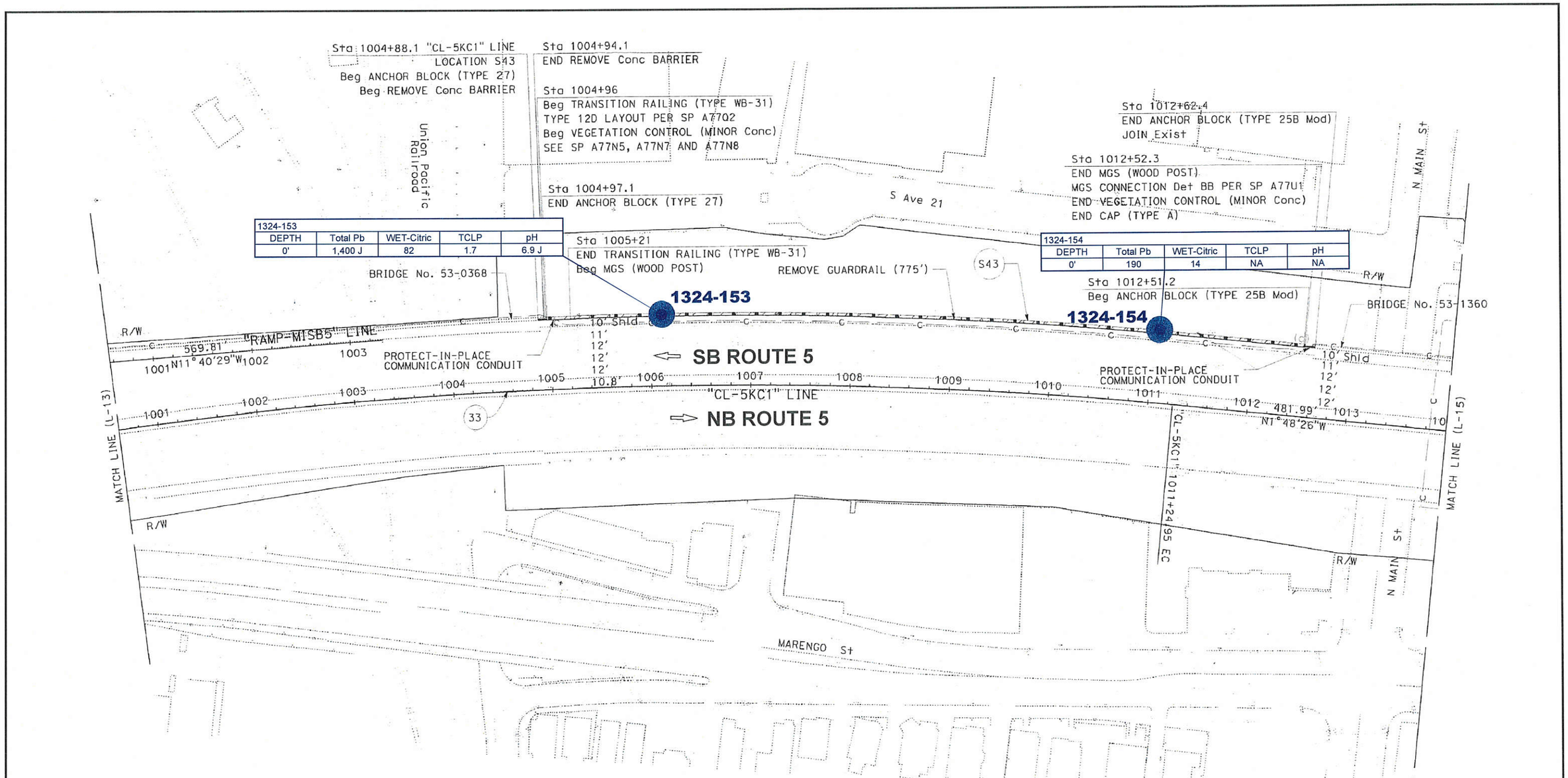
FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-13

FIGURE: 10

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

FILEPATH:F:\1858\active\185832103\03_data\gis_cad\cad\07A3963_TO3.dwg|troman|Aug 02, 2016 at 13:26|Layout: F10



1324-153				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	1,400 J	82	1.7	6.9 J

1324-154				
DEPTH	Total Pb	WET-Citric	TCLP	pH
0'	190	14	NA	NA

LEGEND

● VEGETATION CONTROL AREA SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

NOT TO SCALE

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-14

FIGURE: 11

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

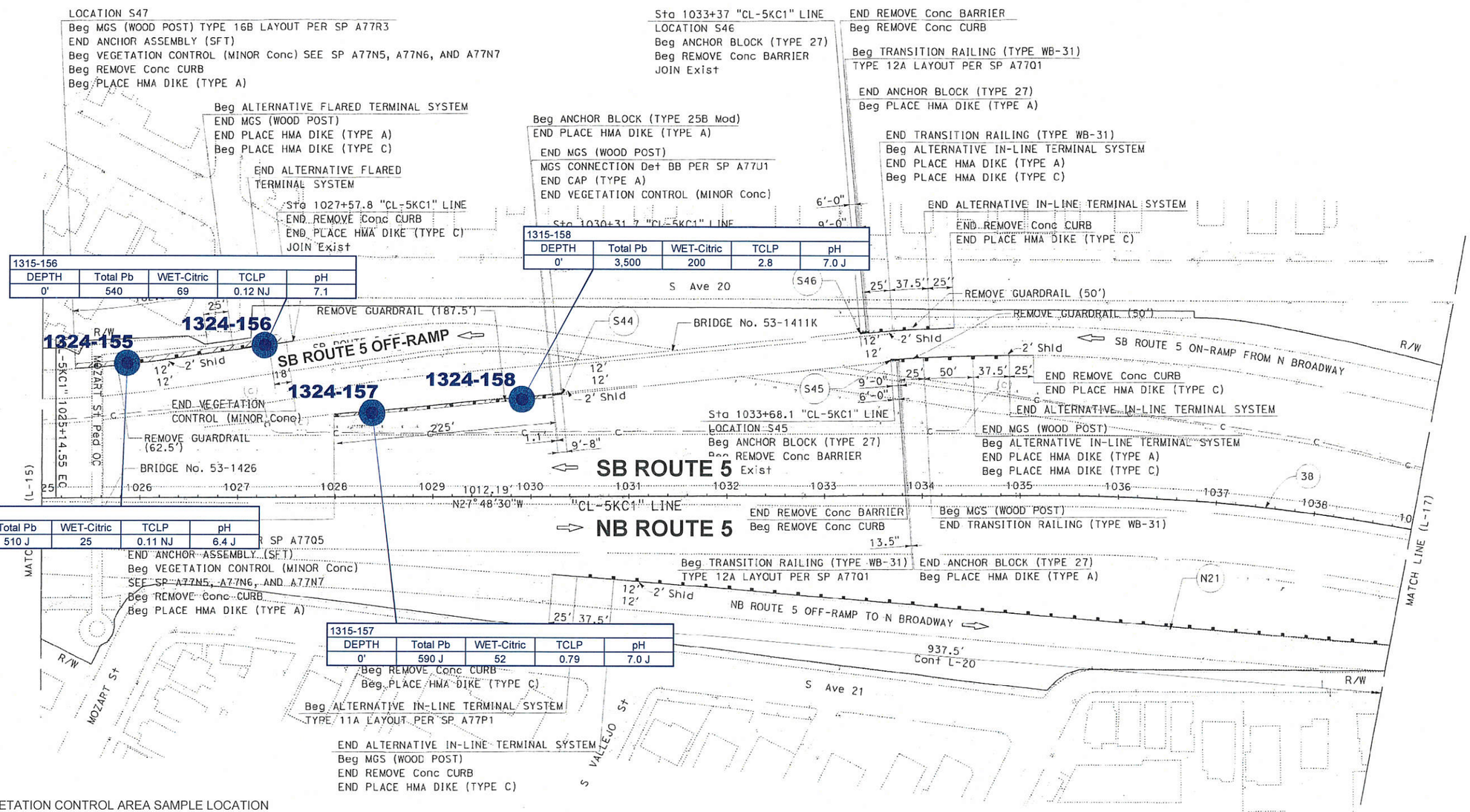
FILEPATH:F:\1858\active\185832103\03_data\gis_cad\cad\07A3963_TO3.dwg|troman|Aug 02, 2016 at 13:26|Layout: F11

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. ⊕	R	Δ	T	L
38	2000′	31°40′57″	567.50′	1105.93′



LEGEND

● VEGETATION CONTROL AREA SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

NOT TO SCALE

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

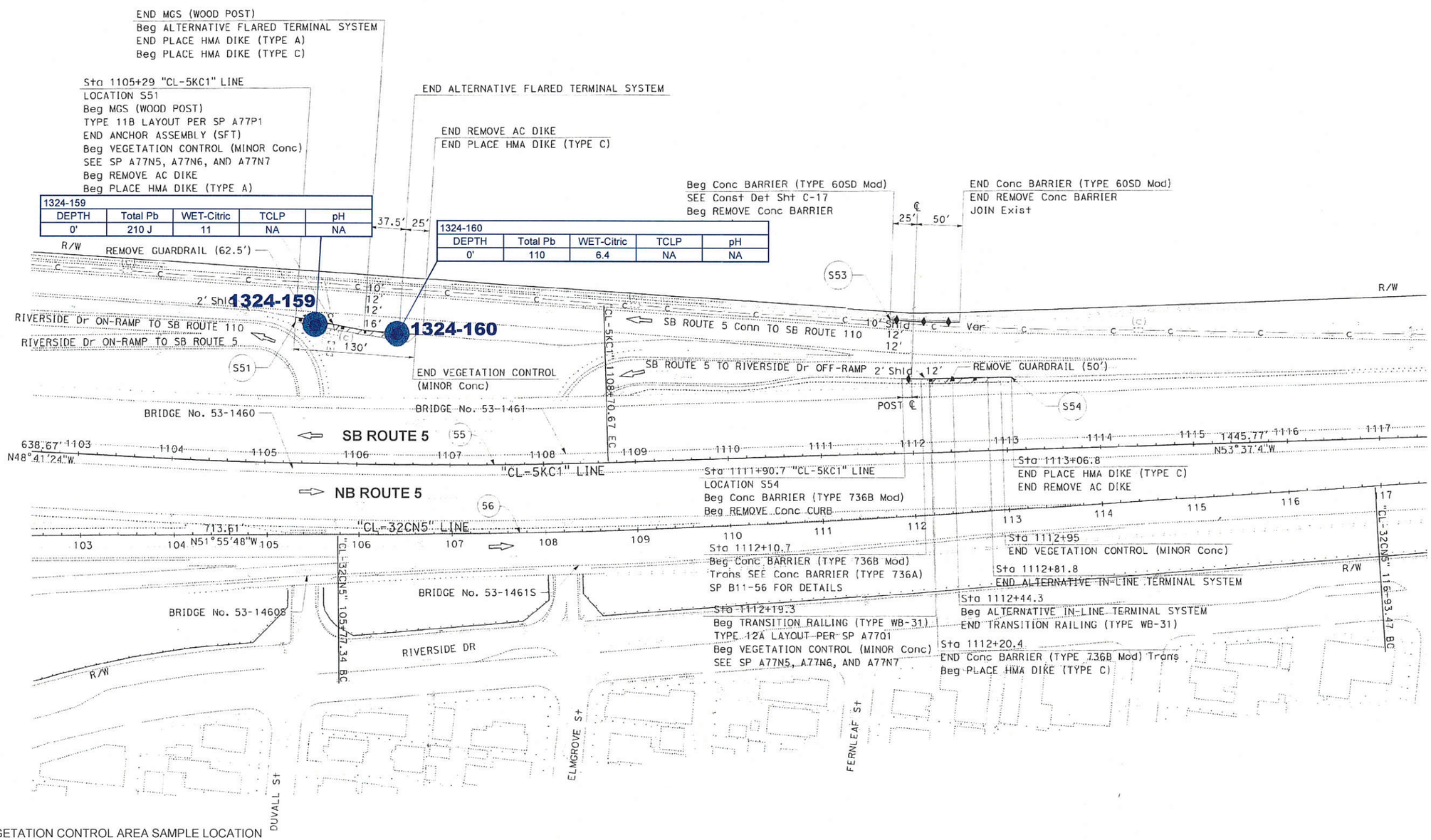
FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-16

FIGURE: 12

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16

FILEPATH:F:\1858\active\185832103\03_data\gis_cad\cad\07A3963_TO3.dwg|troman|Aug 02, 2016 at 13:26|Layout: F12



LEGEND

● VEGETATION CONTROL AREA SAMPLE LOCATION

Boring ID				
Depth	Total Pb	WET-Citric	TCLP	pH
#	#.#	#.#	#.#	#.#

Sample Depth in Feet bgs and Analytical Concentrations

Total Pb = Total Lead (mg/kg)
WET-Citric = Soluble Lead Cal Wet-Citric (mg/L)
TCLP = Soluble Lead Toxicity Characteristic Leaching Procedure (mg/L)
pH = pH
NA = Not Analyzed
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration
B = The analyte was detected in the method, field and/or trip blank

NOT TO SCALE

Background layout provided by Caltrans District 7. No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
PHONE: (805) 230-1266 FAX: (805) 230-1277

FOR:
ADL Site Investigation
Agreement No. 07A3963
Task Order No. 3
LA-5, PM 13.7/26.7
PN/E-FIS: 07-1400-0101 EA Number: 305501

SITE MAP
L-20

FIGURE: 13

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185832103.0002	RAR	KE	KE	07/20/16