

INFORMATION HANDOUT

For Contract No. 07-293404

At 07-LA-5-25.2/25.9

Identified by

Project ID 0712000216

MATERIALS INFORMATION

Fiber Optic System As-Built Drawings

PROJECT NOTES

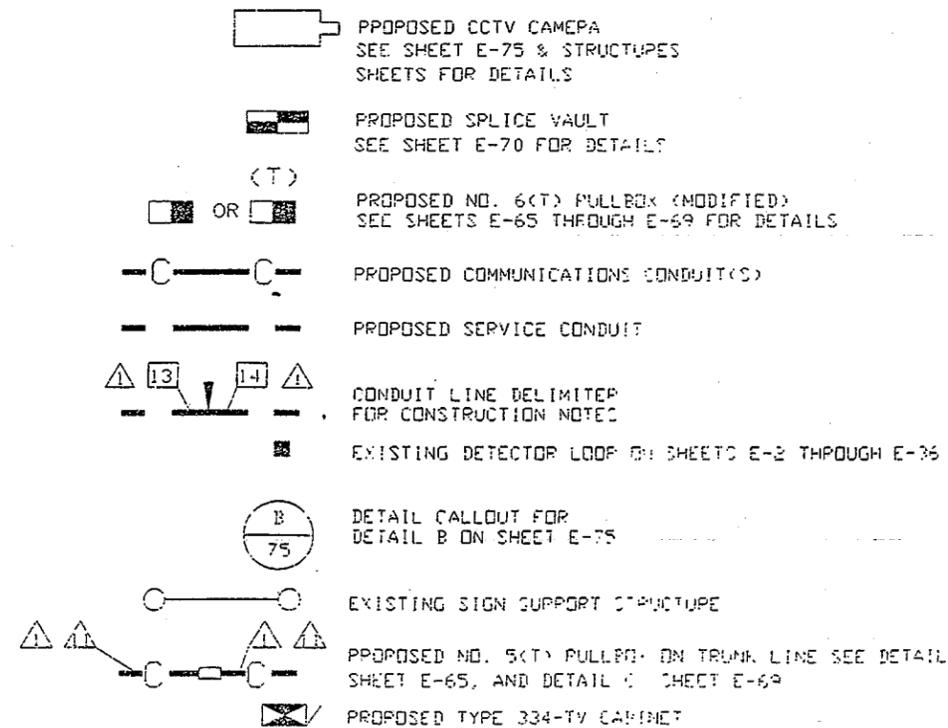
1. INSTALL TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
2. INSTALL CAMERA POLE (TYPE 15) ON EXISTING SIGN STRUCTURE POLE. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
3. INSTALL CAMERA POLE (TYPE 30) AND FOUNDATION. SEE STRUCTURES SHEETS FOR DETAILS. INSTALL CAMERA ON POLE. SEE SHEET E-75 FOR CAMERA INSTALLATION DETAILS.
4. INSTALL CAMERA POLE (TYPE 40) 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.6(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 PAIL 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 WERE OBTAINED FROM OWNER'S RECORDS AND/OR OWNER'S 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



LEGEND AND NOTES

DIST.	COUNTY	ROUTE	POST MILES TO LOCAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	510	16.9/46.2;S.O.1	23	153

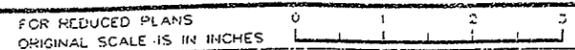
Joseph A. Mannau 3/23/92
 REGISTERED ELECTRICAL ENGINEER (Date)

8-31-92
 PLANS APPROVAL DATE

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

EIDWC NET 3/23/92
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 GLORIA GWYNE
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE REVISION
 5-22 7-2 7-20

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



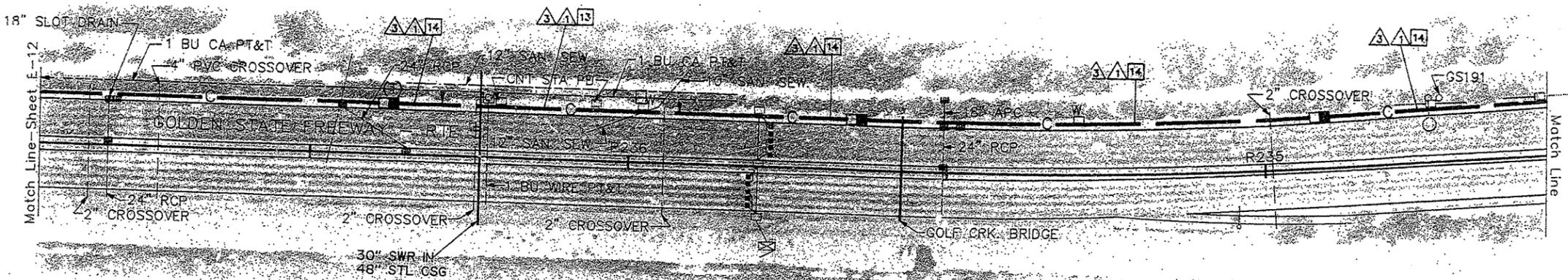
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	510	16.9/46.2, 50.1	35	153

Joseph A. Kwak
 REGISTERED ELECTRICAL ENGINEER
 8-31-92
 PLANS APPROVAL DATE

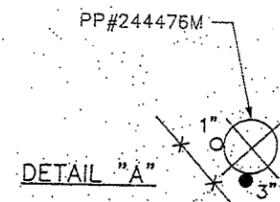
REGISTERED PROFESSIONAL ENGINEER
 JOSEPH A. KWAK
 No. 19991
 Exp. 6/30/95
 STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
 16700 VALLEY VIEW AVE., SUITE 260
 LA MIRADA, CA 90638

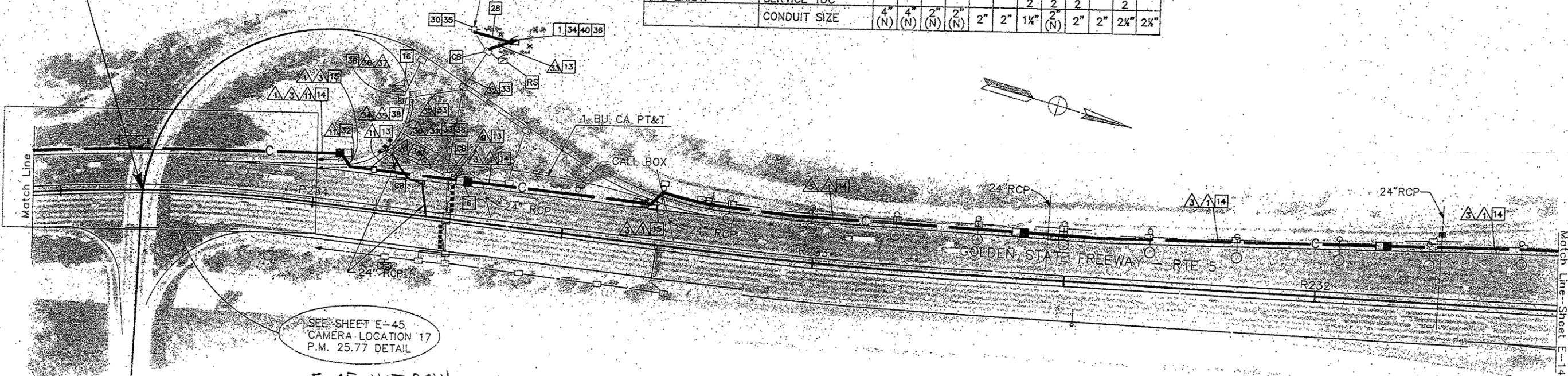
IN ASSOCIATION WITH:
 EBASCO SERVICES INCORPORATED
 KATZ, OKITSU & ASSOCIATES
 WAGNER ENGINEERING & SURVEY, INC.
 CONTROL DESIGN SYSTEMS



CONDUCTOR TYPE	FUNCTION	CONDUCTOR SCHEDULE RUN													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
50P22 CABLE	PHONE LINES	1													
12P22 CABLE	PHONE LINES				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
#18 EXIST.	SHIELD TELEPHONE CABLE				1								1		1
#14 EXIST.	RAMP METER					3					3		4		3
#14 EXIST.	SPARES					3					4		4		4
#10 EXIST.	SIGNAL COMMON					1					1		1		1
#14 EXIST.	METER ON IND.										1		1		1
#12 EXIST.	FLASH BEACON											2	2		2
#8 EXIST.	SERVICE RMS											2	2		2
#12 EXIST.	SERVICE TDC											2	2		2
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)	2" (N)	2"	2"	1 1/2"	2" (N)	2"	2"	2"	2"	2 1/2"	2 1/2"



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



SEE SHEET E-45
 CAMERA LOCATION 17
 P.M. 25.77 DETAIL

E-45 NOT SCAN

AS BUILT 116634
 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.

**CCTV AND COMMUNICATIONS SYSTEM
 (LAYOUT)**

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

DESIGN OVERSIGHT:
 GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 116634E13.DWG PH 03/16/97

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