

INFORMATION HANDOUT

For Contract No. 07-1W6304

At 07-LA-2-14.5/R23.2

Identified by

Project ID 0712000450

As-Builts

Fiber Optic System As-Built Drawings

Communication System Routing

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	2	23.9/37.2	40	142

11-00
Jacqueline C Tan
 REGISTERED ELECTRICAL ENGINEER
 5-7-01
 PLANS APPROVAL DATE

TAN, JACQUELINE
 REGISTERED PROFESSIONAL ENGINEER
 No. E015611
 Exp. 12-31-01
 ELECTRICAL
 STATE OF CALIFORNIA

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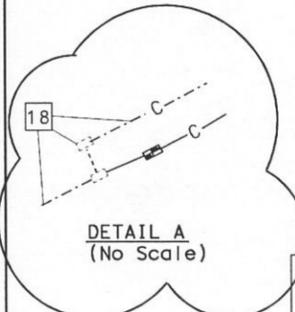
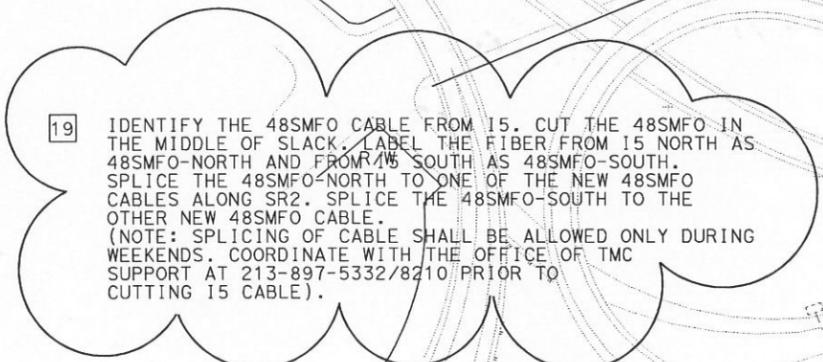
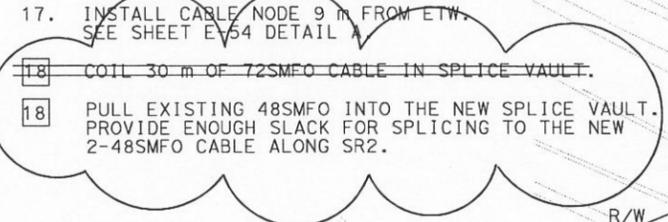
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NOTES: (THIS SHEET ONLY)

1. INSTALL CONDUIT IN TRENCH IN SOIL. SEE SHEET E-46 FOR DETAILS.
2. INSTALL CONDUIT IN TRENCH IN ASPHALT. SEE SHEET E-46 FOR DETAILS.
3. INSTALL CONDUIT IN BRIDGE. SEE STRUCTURAL PLANS FOR DETAILS.
4. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
16. COIL 10 m OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER BY OTHERS.
17. INSTALL CABLE NODE 9 m FROM ETW. SEE SHEET E-54 DETAIL.
18. COIL 30 m OF 72SMFO CABLE IN SPLICE VAULT.
18. PULL EXISTING 48SMFO INTO THE NEW SPLICE VAULT. PROVIDE ENOUGH SLACK FOR SPLICING TO THE NEW 2-48SMFO CABLE ALONG SR2.

MODIFY RAMP METERING SYSTEM (LOCATION 1815)
 KP 24.4
 SEE SHEET E-35



AS-BUILT

Contract No. 07-129944

Resident Engineer: **H. MANNA**

Completion Date: **01/21/03**

TRAFFIC MONITORING STATION
 (LOCATION 1456) KP 23.9
 SEE SHEET E-25

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN																		
		1	2	3	4	5	6	7	8	9	10									
48																				
72SMFO CABLE	MULTIPLEXED DATA/VIDEO		1		1				4		1									2
50P22 CABLE	VOICE/DATA	1			1															
6P22 CABLE	VOICE/DATA							1	4		1									
12SMFO CABLE	VIDEO DISTRIBUTION	1			1															
DLC	COUNT DETECTOR				1				1											
	SIZE 32 INNERDUCT	1	1		1	1			1			1								
	CONDUIT SIZE	103	103		103	103	53		103	103		103	103							

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR COMPLETE R/W AND ACCURATE ACCESS DATA,
 SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.
 ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

**COMMUNICATION SYSTEM
 (ROUTING)**

E-2

SCALE 1:1000

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

PROJECT ENGINEER: DAVID PADILLA

TRAFFIC DESIGN

REVISIONS:

NO.	DATE	REVISION

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

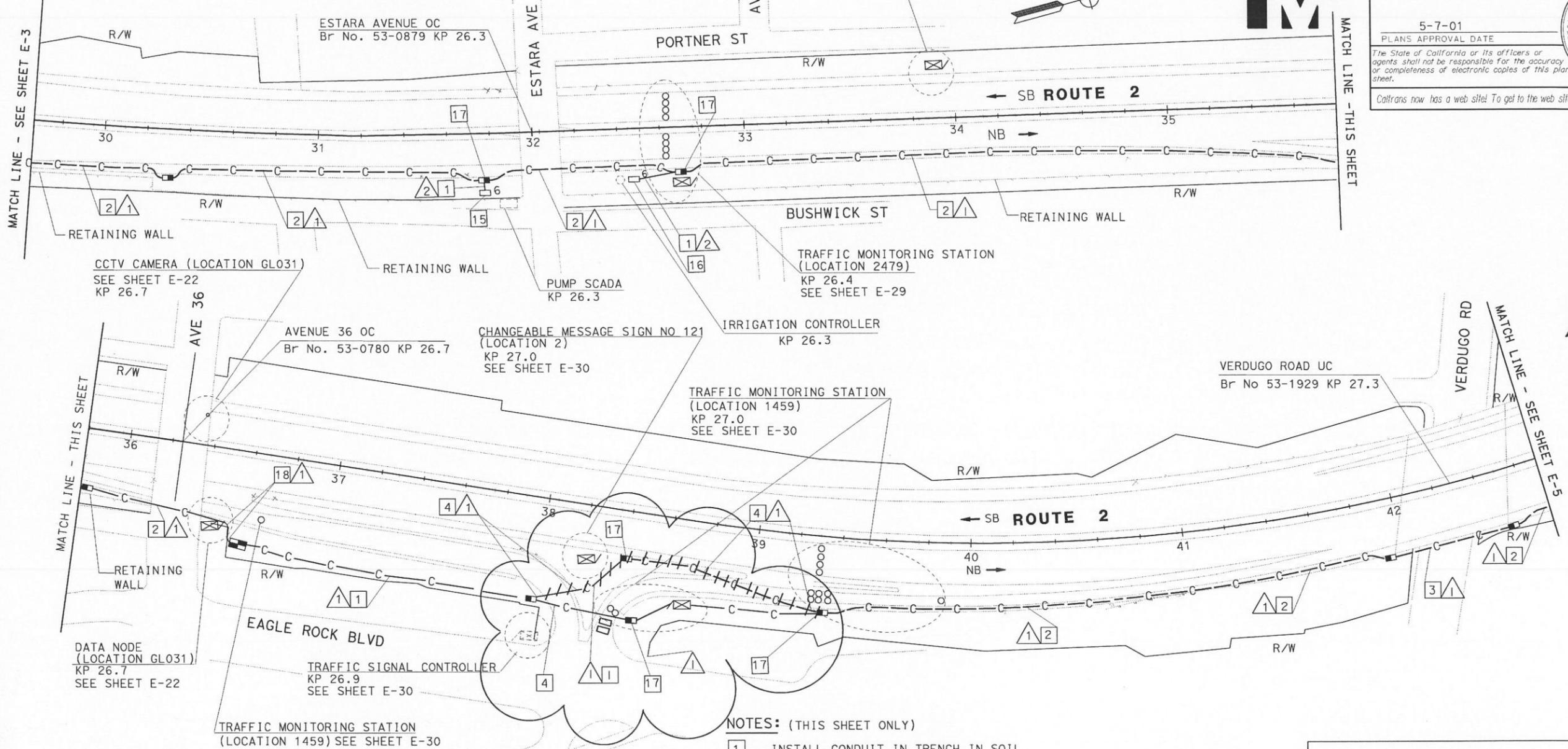
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST SHEET No	TOTAL SHEETS
07	LA	2	23.9/37.2	42	142

REGISTERED ELECTRICAL ENGINEER
 11-00
 5-7-01
 PLANS APPROVAL DATE

TAN JACQUELINE
 No. E015611
 Exp. 12-31-01
 ELECTRICAL
 STATE OF CALIFORNIA

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REVISOR: [] DATE: []

DESIGNER: [] CHECKED BY: []

PROJECT ENGINEER: DAVID PADILLA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

NOTES: (THIS SHEET ONLY)

- 1 INSTALL CONDUIT IN TRENCH IN SOIL. SEE SHEET E-46 FOR DETAILS.
- 2 INSTALL CONDUIT IN TRENCH IN ASPHALT. SEE SHEET E-46 FOR DETAILS.
- 3 INSTALL CONDUIT IN BRIDGE. SEE STRUCTURAL PLANS FOR DETAILS.
- 4 JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
- 15 COIL 10 OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO PUMP SCADA BY OTHERS.
- 16 COIL 10 OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER BY OTHERS.
- 17 INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-48 AND E-50 FOR DETAILS.
- 18 INSTALL CONDUIT IN TRENCH IN SOIL ON (UP) SLOPE. SEE SHEET E-46 FOR DETAILS.

CONDUCTOR TYPE	FUNCTION	RUN		
		1	2	3
50P22 CABLE	VOICE/DATA	1		
6P22 CABLE	VOICE/DATA			1
12SMFO CABLE	VIDEO DISTRIBUTION	1		
72SMFO CABLE	MULTIPLEXED DATA/VIDEO		1	
	SIZE 32 INNERDUCT	1	1	
	CONDUIT SIZE	103	103	53

AS-BUILT

Contract No. 07- **129944**

Resident Engineer: **H. MANNA**

Completion Date: **01/21/03**

COMMUNICATION SYSTEM (ROUTING)

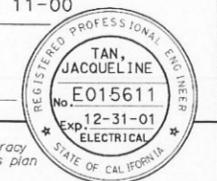
SCALE 1:1000

E-4

DATE PLOTTED => 29-MAY-2007
 TIME PLOTTED => 09:31

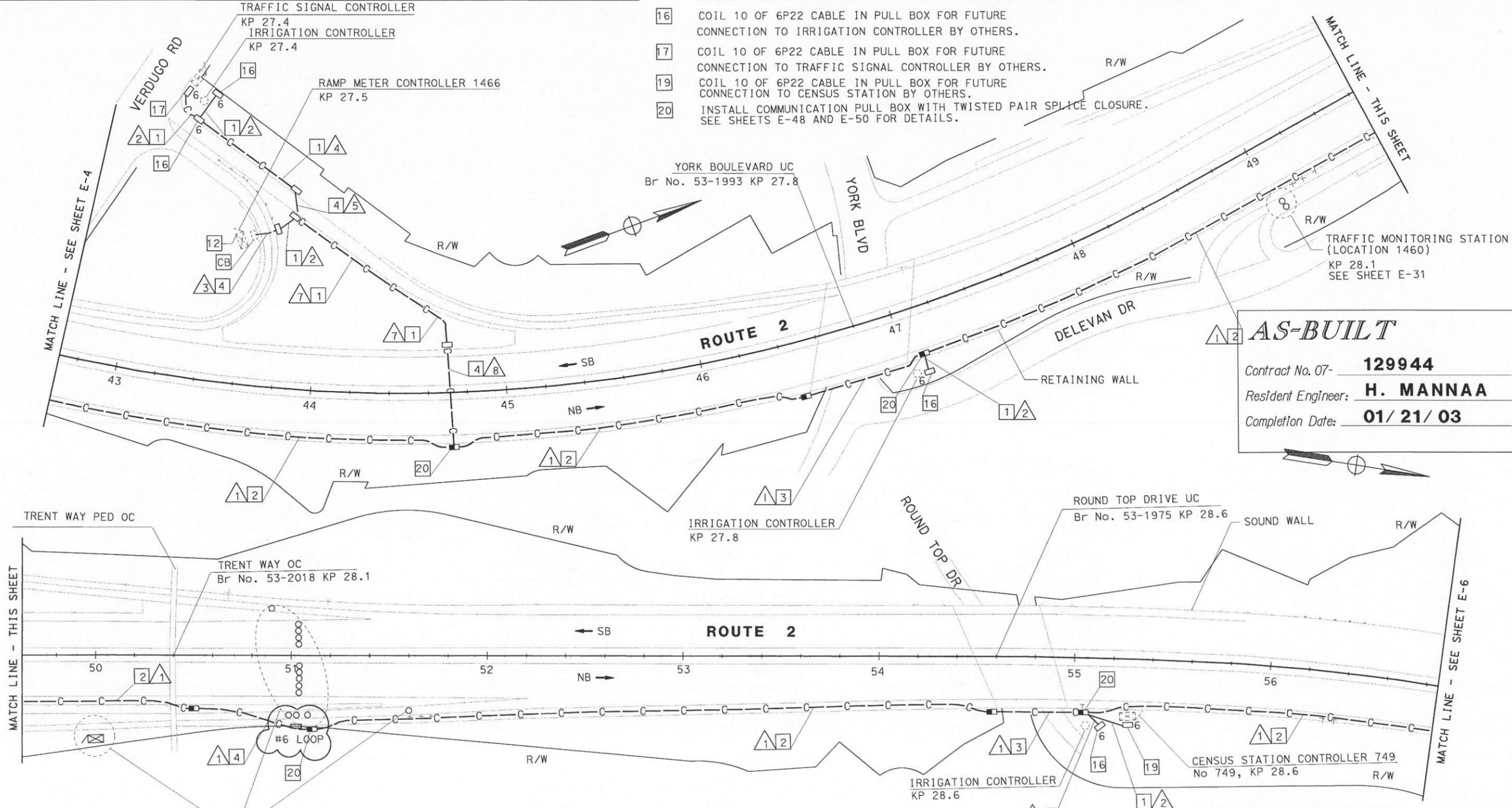
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	LA	2	23.9/37.2		43	142

REGISTERED ELECTRICAL ENGINEER	11-00
REGISTERED PROFESSIONAL ENGINEER	
PLANS APPROVAL DATE	5-7-01
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CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN							
CONDUCTOR TYPE	FUNCTION	1	2	3	4	5	7	8	
50P22 CABLE	VOICE/DATA	1							
6P22 CABLE	VOICE/DATA		1	1	2	2	3	3	
12SMFO CABLE	VIDEO DISTRIBUTION	1							
72SMFO CABLE	MULTIPLEXED DATA/VIDEO		1						
	SIZE 32 INNERDUCT	1	1						
	CONDUIT SIZE	103	103	53	78	53	78	53	78

- NOTES: (THIS SHEET ONLY)
- 1 INSTALL CONDUIT IN TRENCH IN SOIL. SEE SHEET E-46 FOR DETAILS.
 - 2 INSTALL CONDUIT IN TRENCH IN ASPHALT. SEE SHEET E-46 FOR DETAILS.
 - 3 INSTALL CONDUIT IN BRIDGE. SEE STRUCTURAL PLANS FOR DETAILS.
 - 4 JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
 - 12 INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN EXISTING CABINET. CONNECT 6P22. USE EXISTING CONDUIT FROM PULL BOX INTO CONTROLLER CABINET. SEE SHEET E-40 FOR DETAILS.
 - 16 COIL 10 OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER BY OTHERS.
 - 17 COIL 10 OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL CONTROLLER BY OTHERS.
 - 19 COIL 10 OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO CENSUS STATION BY OTHERS.
 - 20 INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-48 AND E-50 FOR DETAILS.



AS-BUILT

Contract No. 07- **129944**

Resident Engineer: **H. MANNA**

Completion Date: **01/21/03**

DATE REVISIONS
 DATE REVISIONS
 CALCULATED/DESIGNED BY
 CHECKED BY
 PROJECT ENGINEER
 DAVID PADILLA
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
 Caltrans

TRAFFIC MONITORING STATION (LOCATION 1460) KP 28.1 SEE SHEET E-31

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY. FOR COMPLETE AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

COMMUNICATION SYSTEM (ROUTING)
SCALE 1:1000 **E-5**



LAST REVISION
 DATE PLOTTED => 28-MAY-2007
 TIME PLOTTED => 09:33

NOTES: (THIS SHEET ONLY)

- 1 INSTALL CONDUIT IN TRENCH IN SOIL. SEE SHEET E-46 FOR DETAILS.
- 2 INSTALL CONDUIT IN TRENCH IN ASPHALT. SEE SHEET E-46 FOR DETAILS.
- 3 INSTALL CONDUIT IN BRIDGE. SEE STRUCTURAL PLANS FOR DETAILS.
- 4 JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
- 17 INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEET E-48 AND E-50 FOR DETAILS.
- 18 SPLICE 72SMFO CABLES TO EXISTING 72SMFO AS DIRECTED BY THE ENGINEER.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
50P22 CABLE	VOICE/DATA	1				
72SMFO CABLE	MULTIPLEXED DATA/VIDEO	1	2			
12SMFO CABLE	VIDEO DISTRIBUTION		1			
	SIZE 32 INNERDUCT	1	1	1		
	CONDUIT SIZE	103	103	103	103	EXIST

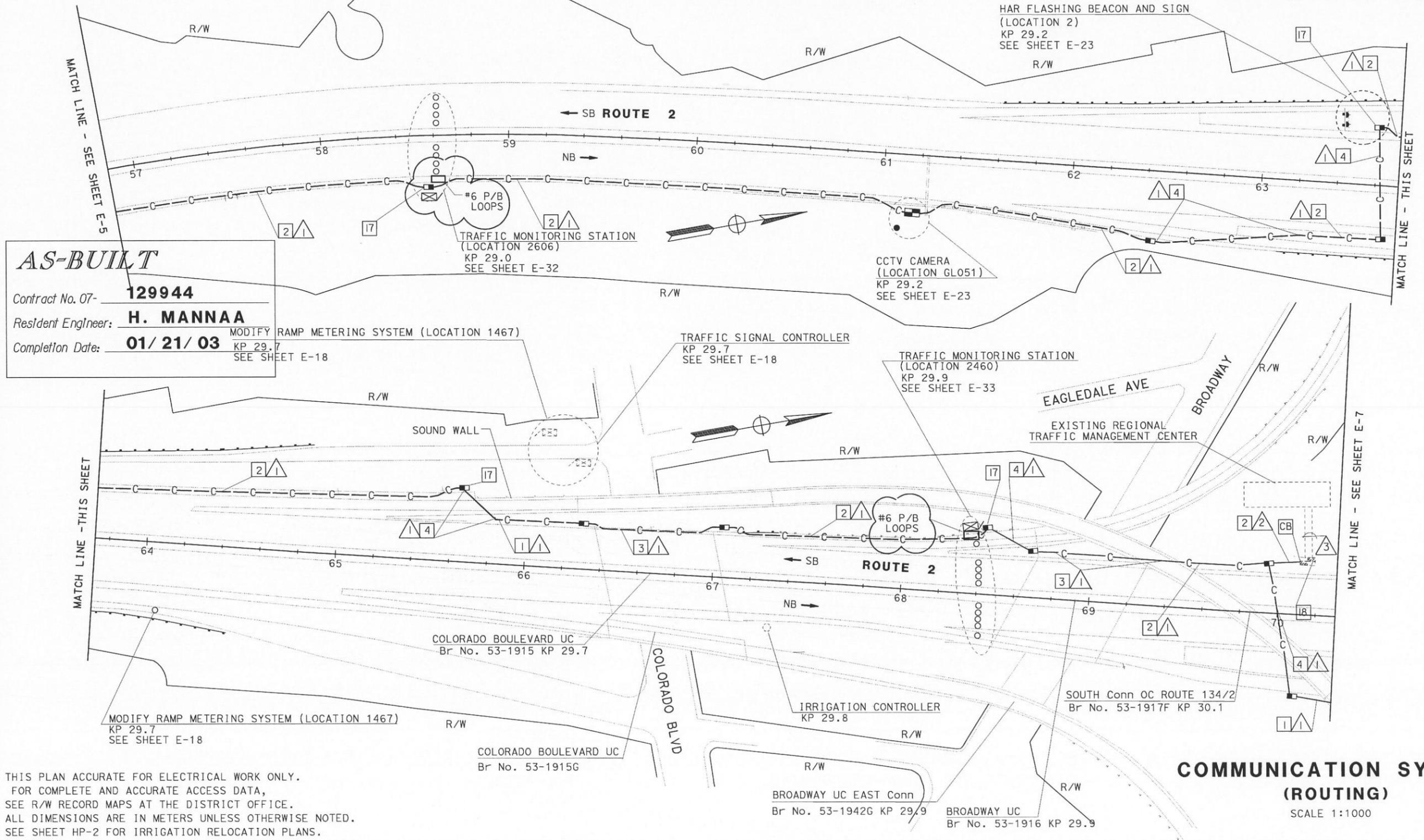


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	2	23.9/37.2	44	142

11-00
 REGISTERED ELECTRICAL ENGINEER
 5-7-01
 PLANS APPROVAL DATE

TAN, JACQUELINE
 No. E015611
 EXP. 12-31-01
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT

Contract No. 07- **129944**

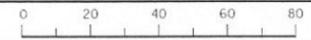
Resident Engineer: **H. MANNA**

Completion Date: **01/21/03**

MODIFY RAMP METERING SYSTEM (LOCATION 1467)
 KP 29.7
 SEE SHEET E-18

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
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 SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.
 ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
 SEE SHEET HP-2 FOR IRRIGATION RELOCATION PLANS.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS



USERNAME => gcruz
 DGN FILE => 712994u06.dgn

COMMUNICATION SYSTEM (ROUTING)
 SCALE 1:1000
E-6

CU 07388

EA 129941

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
 PROJECT ENGINEER: DAVID PADILLA
 REVISIONS: REVISION 01 DATE 00-00-00 TIME PLOTTED => 29-MAY-2007

REVISION 01 DATE 00-00-00 TIME PLOTTED => 29-MAY-2007

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	2	23.9/37.2	45	142

5-7-01
 PLANS APPROVAL DATE

REGISTERED ELECTRICAL ENGINEER
 No. E015611
 Exp. 12-31-01
 ELECTRICAL
 STATE OF CALIFORNIA

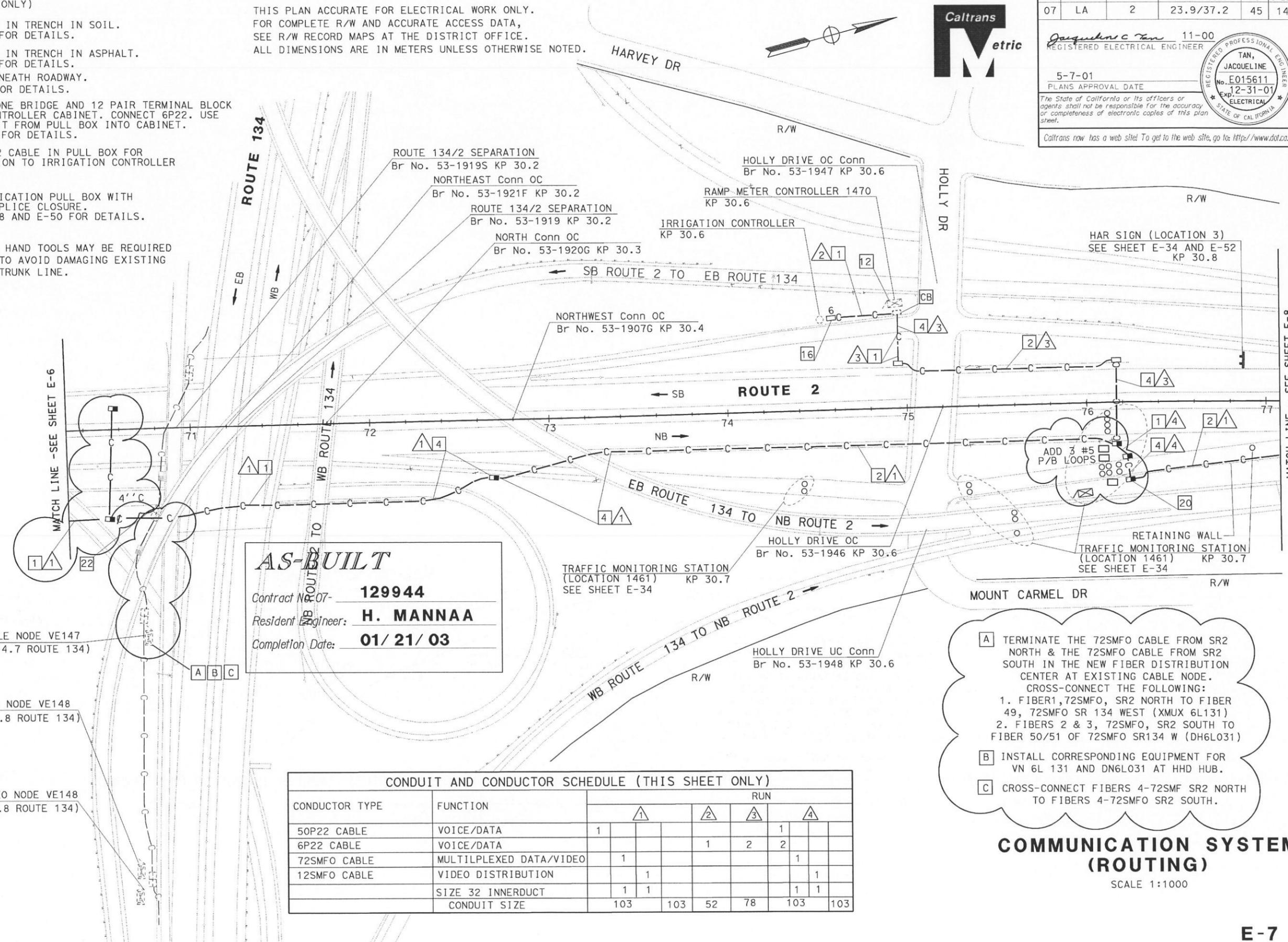
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- 1 INSTALL CONDUIT IN TRENCH IN SOIL. SEE SHEET E-46 FOR DETAILS.
- 2 INSTALL CONDUIT IN TRENCH IN ASPHALT. SEE SHEET E-46 FOR DETAILS.
- 4 JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
- 12 INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN EXISTING CONTROLLER CABINET. CONNECT 6P22. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET. SEE SHEET E-40 FOR DETAILS.
- 16 COIL 10 OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER BY OTHERS.
- 20 INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-48 AND E-50 FOR DETAILS.
- 22 TRENCHING WITH HAND TOOLS MAY BE REQUIRED IN THIS AREA, TO AVOID DAMAGING EXISTING COMMUNICATION TRUNK LINE.

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AS-BUILT

Contract No. 07- **129944**
 Resident Engineer: **H. MANNA**
 Completion Date: **01/ 21/ 03**

- A TERMINATE THE 72SMFO CABLE FROM SR2 NORTH & THE 72SMFO CABLE FROM SR2 SOUTH IN THE NEW FIBER DISTRIBUTION CENTER AT EXISTING CABLE NODE. CROSS-CONNECT THE FOLLOWING:
 1. FIBER1, 72SMFO, SR2 NORTH TO FIBER 49, 72SMFO SR 134 WEST (XMUX 6L131)
 2. FIBERS 2 & 3, 72SMFO, SR2 SOUTH TO FIBER 50/51 OF 72SMFO SR134 W (DH6L031)
- B INSTALL CORRESPONDING EQUIPMENT FOR VN 6L 131 AND DN6L031 AT HDD HUB.
- C CROSS-CONNECT FIBERS 4-72SMF SR2 NORTH TO FIBERS 4-72SMFO SR2 SOUTH.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN					
		1	2	3	4	5	6
50P22 CABLE	VOICE/DATA	1				1	
6P22 CABLE	VOICE/DATA		1	2	2		
72SMFO CABLE	MULTIPLEXED DATA/VIDEO	1				1	
12SMFO CABLE	VIDEO DISTRIBUTION		1				1
	SIZE 32 INNERDUCT	1	1			1	1
	CONDUIT SIZE	103	103	52	78	103	103

COMMUNICATION SYSTEM (ROUTING)
 SCALE 1:1000

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 PROJECT ENGINEER: DAVID PADILLA
 CALCULATED/DESIGNED BY: []
 CHECKED BY: []
 REVISIONS: []
 DATE: []
 REVISOR: []
 DATE: []
 REVISOR: []
 DATE: []

LAST REVISION: DATE PLOTTED => 29-MAY-2007
 00-00-00 TIME PLOTTED => 09:54

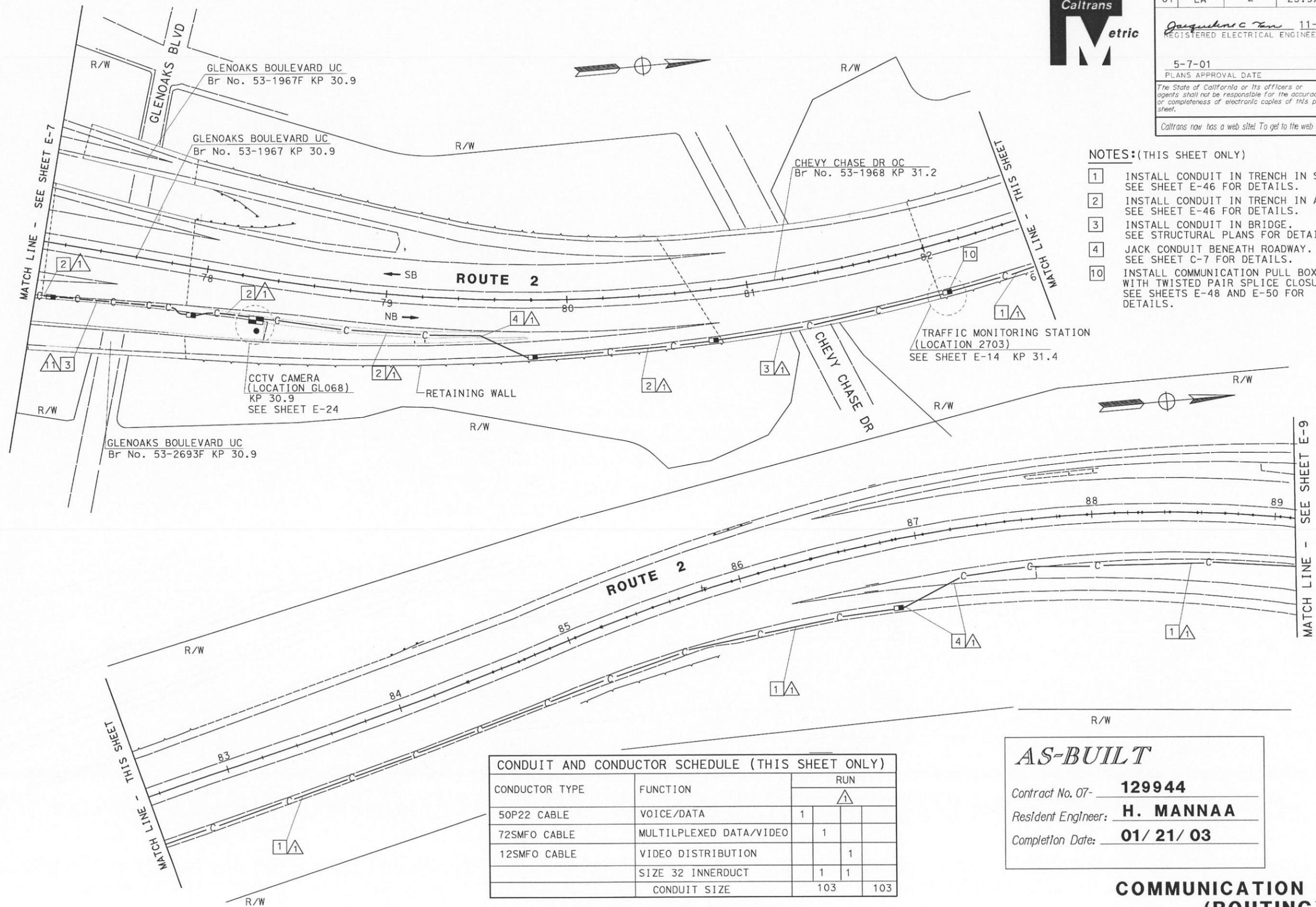
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Caltrans
TRAFFIC DESIGN
 PROJECT ENGINEER: DAVID PADILLA
 CALCULATED/DESIGNED BY: []
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 DATE: []
 REVISED BY: []
 DATE REVISED: []



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	2	23.9/37.2	46	142

REGISTERED ELECTRICAL ENGINEER
 11-00
 REGISTERED ELECTRICAL ENGINEER
 5-7-01
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 TAN, JACQUELINE
 No. E015611
 Exp. 12-31-01
 ELECTRICAL
 STATE OF CALIFORNIA



- NOTES: (THIS SHEET ONLY)
- 1 INSTALL CONDUIT IN TRENCH IN SOIL. SEE SHEET E-46 FOR DETAILS.
 - 2 INSTALL CONDUIT IN TRENCH IN ASPHALT. SEE SHEET E-46 FOR DETAILS.
 - 3 INSTALL CONDUIT IN BRIDGE. SEE STRUCTURAL PLANS FOR DETAILS.
 - 4 JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
 - 10 INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-48 AND E-50 FOR DETAILS.

CONDUCTOR TYPE	FUNCTION	RUN	
		1	2
50P22 CABLE	VOICE/DATA	1	
72SMFO CABLE	MULTIPLEXED DATA/VIDEO	1	
12SMFO CABLE	VIDEO DISTRIBUTION		1
	SIZE 32 INNERDUCT	1	1
	CONDUIT SIZE	103	103

AS-BUILT

Contract No. 07- **129944**

Resident Engineer: **H. MANNA**

Completion Date: **01/21/03**

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 DGN FILE => 712994u08.dgn

COMMUNICATION SYSTEM (ROUTING)

SCALE 1:1000 **E-8**

LAST REVISION: 00-00-00
 DATE PLOTTED: 29-MAY-2007
 TIME PLOTTED: 9:59:33

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	2	23.9/37.2	47	142

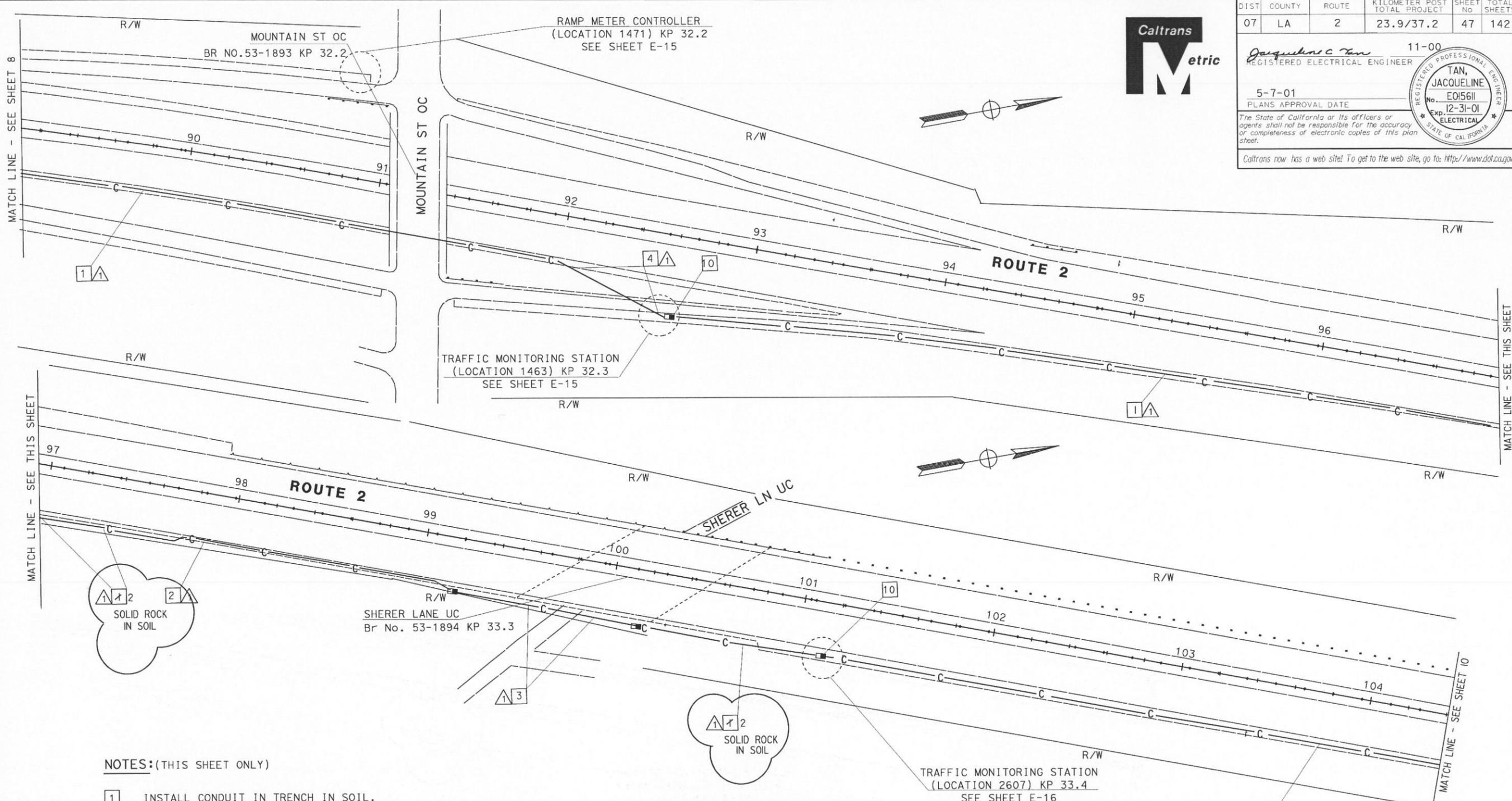
11-00
Jacqueline C. Tan
 REGISTERED ELECTRICAL ENGINEER

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TAN, JACQUELINE
 REGISTERED PROFESSIONAL ENGINEER
 No. EO15611
 Exp. 12-31-01
 ELECTRICAL
 STATE OF CALIFORNIA



NOTES: (THIS SHEET ONLY)

- 1 INSTALL CONDUIT IN TRENCH IN SOIL. SEE SHEET E-46 FOR DETAILS.
 - 2 INSTALL CONDUIT IN TRENCH IN ASPHALT. SEE SHEET E-46 FOR DETAILS.
 - 3 ATTACH CONDUIT TO BRIDGE. SEE STRUCTURAL PLANS FOR DETAILS.
 - 4 JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
 - 10 INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-48 AND E-50 FOR DETAILS.
1. A TEST VACUUM PIPE IS IN THE VICINITY OF COMMUNICATIONS ROUTING CONDUIT. THE CONDUIT IS LOCATED ADJACENT TO RIGHT OF AWAY FENCE ON STATE PROPERTY AND RUNS FROM STATION 101+60 TO 107+70. CONDUIT IS NOT TO BE DISTURBED.

CONDUCTOR TYPE	FUNCTION	RUN	
		▲	
50P22 CABLE	VOICE/DATA	1	
6P22 CABLE	VOICE/DATA		
72SMFO CABLE	MULTIPLEXED DATA/VIDEO	1	
12SMFO CABLE	VIDEO DISTRIBUTION		1
	SIZE 32 INNERDUCT	1	1
	CONDUIT SIZE	103	103

AS-BUILT

Contract No. 07- **129944**

Resident Engineer: **H. MANNA**

Completion Date: **01/ 21/ 03**

COMMUNICATIONS SYSTEM (ROUTING)

E-9

SCALE 1:1000

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

USERNAME => qcruz
 DGN FILE => 712994u09.dgn

CU 07388

EA 129941

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

TRAFFIC DESIGN

PROJECT ENGINEER
 DAVID PADILLA

DATE	REVISOR	DATE	REVISOR

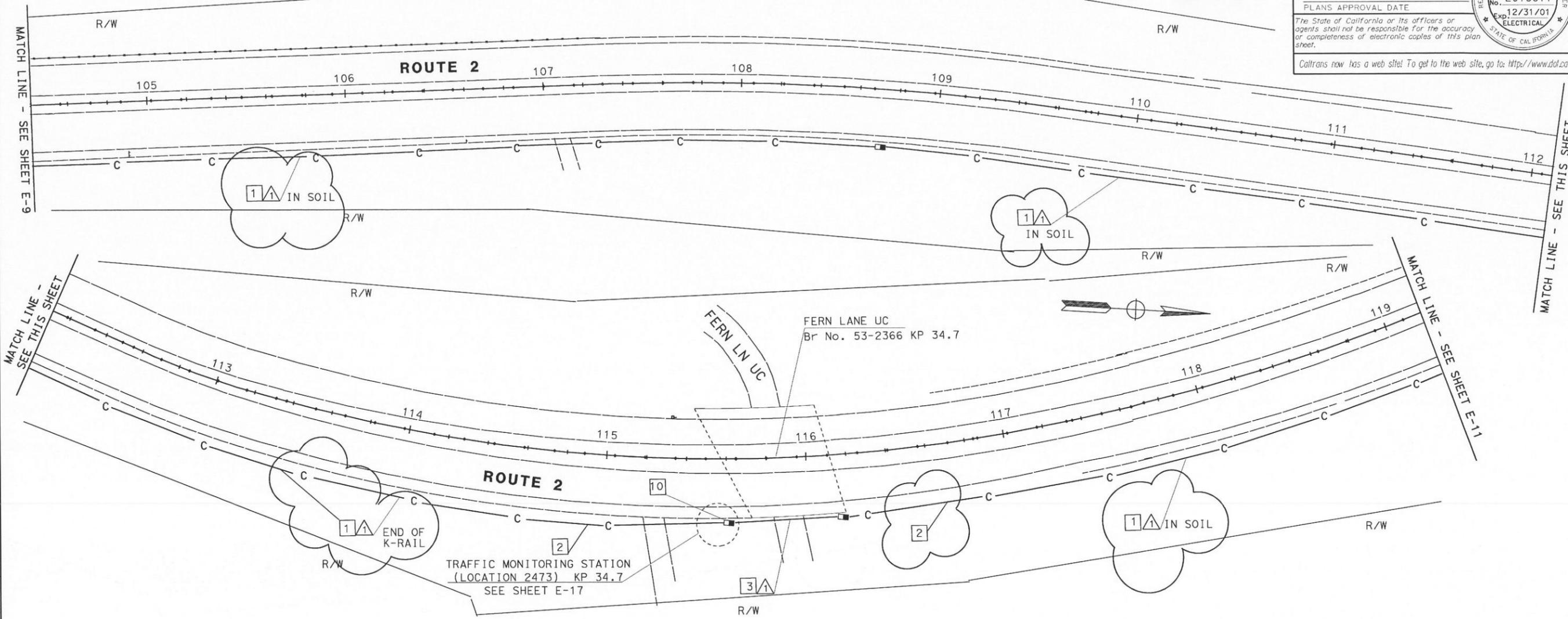
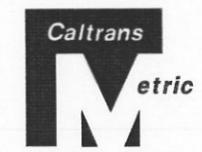
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	2	23.9/37.2	48	142

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 ELECTRICAL
 STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
 PROJECT ENGINEER: DAVID PADILLA
 CALCULATED/DESIGNED BY: []
 CHECKED BY: []
 DATE: []
 REVISIONS: []
 REVISOR: []
 DATE: []

- NOTES:(THIS SHEET ONLY)**
- 1 INSTALL CONDUIT IN TRENCH IN SOIL. SEE SHEET E-46 FOR DETAILS.
 - 3 INSTALL CONDUIT IN BRIDGE. SEE STRUCTURAL PLANS FOR DETAILS.
 - 10 INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-48 AND E-50 FOR DETAILS.
 - 2 INSTALL CONDUIT IN TRENCH IN ASPHALT SEE SHEET E-46 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)			
CONDUCTOR TYPE	FUNCTION	RUN	
		1	2
50P22 CABLE	VOICE/DATA	1	
6P22 CABLE	VOICE/DATA		
72SMFO CABLE	MULTIPLXED DATA/VIDEO	1	
12SMFO CABLE	VIDEO DISTRIBUTION		1
	SIZE 32 INNERDUCT	1	1
	CONDUIT SIZE	103	103

AS-BUILT

Contract No. 07- **129944**

Resident Engineer: **H. MANNA**

Completion Date: **01/ 21/ 03**

COMMUNICATION SYSTEM (ROUTING)

SCALE 1:1000 **E-10**

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LAST REVISION: []
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 TIME PLOTTED => 09:33

