DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	2	23.9/37.2	39	142

Jacqueline C Tan 11-00
REGISTERED ELECTRICAL ENGINEER

5-7-01
PLANS APPROVAL DATE

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

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Caltrans Metric

GENERAL NOTES:

1. DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT AT EACH TMS AND RMS SITE AND VERIFYING THE INSTALLATION IS OPERATIONAL.
2. ALL IRRIGATION CONTROLLERS ARE EXISTING UNLESS OTHERWISE NOTED ON THE PLANS.
3. ALL CONDUIT CONTAINING FIBER OPTIC CABLE SHALL ENTER PULL BOXES ON THE SHORT SIDE ONLY. PULL BOXES SHALL NOT BE USED TO CHANGE ALIGNMENT OF COMMUNICATION CONDUIT.
4. ALL PULL BOXES AND SPLICE VAULTS SHALL BE INSTALLED IN THE UNPAVED AREA IMMEDIATELY ADJACENT TO THE PAVED SHOULDER OR BEHIND MBGR. CONDUIT SHALL BE DIRECTED FROM THE SHOULDER TO THE BOXES WITH 22.5 DEGREE BENDS.
5. REFER TO CONDUIT AND CONDUCTOR SCHEDULES ON PLANS FOR CONDUIT SIZES AND CONDUCTOR TYPES.
6. ALL NEW SERVICE EQUIPMENT ENCLOSURES SHALL ALSO HAVE:
   (1) 1P, 20 A CIRCUIT BREAKER (SPARE)
   (1) 1P, 30 A CIRCUIT BREAKER (SPARE)
   (1) 2P, (SPACE FOR FUTURE)
7. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.
8. ALL EXISTING IRRIGATION TO REMAIN AND BE MAINTAINED. EXISTING IRRIGATION NOT SHOWN FOR CLARITY, SEE SHEETS HP-1 TO HP-3 FOR RELOCATION OF IRRIGATION AT THOSE LOCATIONS. SEE CONTRACT PLANS 001404, 002664, 095524, 045394, 256424 AND 373704 FOR EXISTING PLANTING AND IRRIGATION.
9. ALL 6P22 CABLES TERMINATING AT A COMMUNICATIONS PULLBOX MUST BE SPLICED IN THE NEW SPLICE CLOSURE. SEE SHEET E-36 FOR DETAILS.
10. COMMUNICATION CONDUIT ROUTING WITH FIBER, INSTALLED IN SOIL AND WHERE THE RUN IS LONGER THAN 30 m, SHALL HAVE A FIBER WARNING SIGN. SEE SHEET E-46 FOR DETAILS.
11. CONTRACTOR SHALL PROTECT ALL UTILITY FACILITIES IN PLACE DURING CONSTRUCTION.

Route 2

ABBREVIATIONS: (NOT LISTED IN CALTRANS STANDARD PLANS)

#	-	NUMBER
AVC	-	AUTOMATIC VEHICLE CLASSIFICATION SYSTEM
AWG	-	AMERICAN WIRE GAUGE
B/O	-	BREAKOUT
BC	-	BOLT CIRCLE
BOH	-	BRIDGE AND OVERHEAD
CCR	-	CAMERA CONTROL RECEIVER
CIA	-	CONTROLLER INTERFACE ASSEMBLY
CTX	-	CLEAR TO SEND
COAX	-	COAXIAL CABLE
CODEC	-	CODER/DECODER
COMM	-	COMMUNICATION
D4	-	4TH VERSION OF D-SIGNAL FOR TDM
DCS	-	DIGITAL CROSS CONNECT SWITCH
DS1	-	DIGITAL TRANSMISSION RATE-1.544 MEGABITS PER SECOND
DEMARC	-	DEMARCATION
DEC	-	DECODER
DTMF	-	DUAL-TONE MULTI-FREQUENCY DECODER
DWP	-	LA DEPARTMENT OF WATER AND POWER
(E)	-	EXISTING
FDF	-	FIBER DISTRIBUTION FRAME
FDU	-	FIBER DISTRIBUTION UNIT
GTE	-	GENERAL TELEPHONE AND ELECTRIC
GDC	-	GENERAL DATA COMM
GL	-	GLENDALE
GPSD	-	GLENDALE POWER SERVICES DEPARTMENT
JKFD	-	JACKFIELD
LA	-	LOS ANGELES
MUX	-	MULTIPLEX
OW	-	ORDER WIRE (MULTIPLE VOICE CIRCUIT)
P22	-	PAIR 22 AMERICAN WIRE GAUGE
PAC BELL	-	PACIFIC BELL TELEPHONE COMPANY
PDA	-	POWER DISTRIBUTION ASSEMBLY
PR	-	PAIR
RCVR	-	RECEIVER
RF	-	RADIO FREQUENCY
RMC	-	RAMP METER CONTROLLER
RMS	-	RAMP METERING SYSTEM
RTMC	-	REGIONAL TRAFFIC MANAGEMENT CENTER
RTS	-	REQUEST TO SEND
RX	-	RECEIVE
SCE	-	SOUTHERN CALIFORNIA EDISON
SCADA	-	SUPERVISORY CONTROL AND DATA AQUISITION
SCGAS	-	SOUTHERN CALIFORNIA GAS COMPANY
SCWC	-	SOUTHERN CALIFORNIA WATER COMPANY
72SMFO	-	72 SINGLE MODE FIBER OPTIC CABLE
SCRRA	-	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
SPRR	-	SOUTHERN PACIFIC RAILROAD
STC	-	SCREENED TRANSMISSION CABLE
TPW	-	TWISTED WIRE PAIR
TX	-	TRANSMIT
VE	-	VENTURA
VMX	-	VIDEO MULTIPLEXER
VX	-	VIDEO TRANSCEIVER
WIM	-	WEIGH IM MOTION CONTROLLER
XMTR	-	TRANSMITTER

LEGEND: (NOT LISTED IN CALTRANS STANDARD PLANS)

	SPLICE VAULT
	EXISTING SPLICE VAULT
	TYPE 334 TV CABINET, FOR: CCTV, CABLE NODE DATA AND VIDEO NODES CABINET
	CCTV CAMERA POLE LOCATION
	COMMUNICATION PULL BOX
	PUMP
	EXISTING DATA,VIDEO OR CABLE NODE TYPE 334 TV CABINET
	EXISTING SPLICE VAULT
11	OPTICAL FIBER CABLE
	EXISTING PIEZOELECTRIC OR AVC SENSORS
	EXISTING ELECTRIC VAULT
--E--E	ELECTRICAL POWER CONDUIT(S)
--e--e	EXISTING ELECTRICAL POWER CONDUIT(S)
	EXISTING DRAINAGE FLOW LINE
	EXISTING IRRIGATION CONTROLLER
50P22 TPC	50 PAIRS TWISTED PAIR CABLE SIZE 22
6P22 TPC	6 PAIRS TWISTED PAIR CABLE SIZE 22

129941

AS-BUILT
Contract No. 07- 129944
Resident Engineer: H. MANNAA
Completion Date: 01/21/03

LEGEND AND NOTES

E-1

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

LAST REVISION 00-00-00 DATE PLOTTED => 29-MAY-2007 TIME PLOTTED => 09:31

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => gcruz DGN FILE => 712994u01.dgn
CU 07388 EA 129941

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				RUN 2		RUN 3
50P22 CABLE	VOICE/DATA	1						
72SMFO CABLE	MULTILPLEXED DATA/VIDEO		1			2		
12SMFO CABLE	VIDEO DISTRIBUTION			1				
	SIZE 32 INNERDUCT		1	1		1		
	CONDUIT SIZE	103			103	103	103	EXIST

Caltrans Metric

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

Jacqueline C Tan 11-00
REGISTERED ELECTRICAL ENGINEER

5-7-01
PLANS APPROVAL DATE

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

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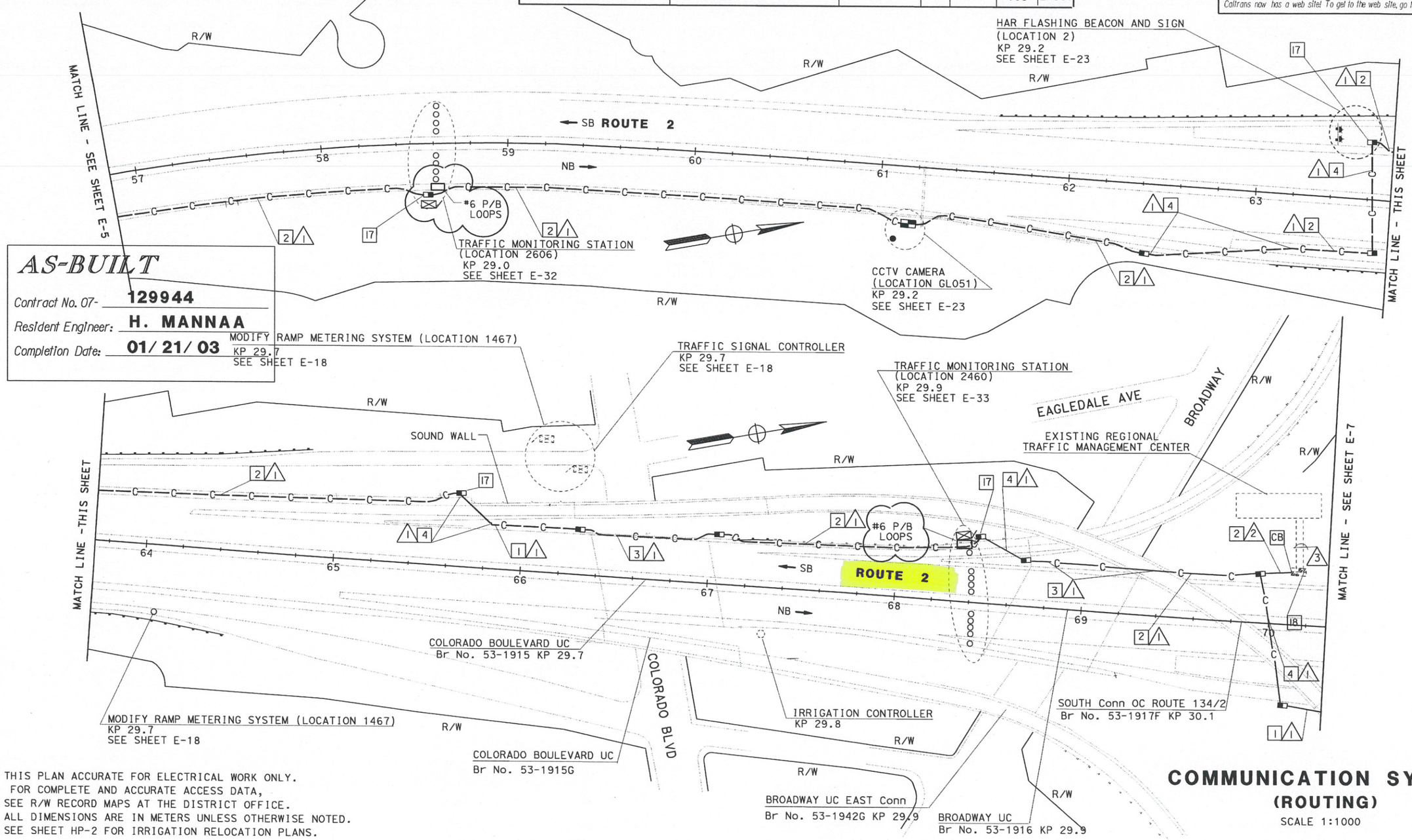

AS-BUILT

Contract No. 07- 129944

Resident Engineer: H. MANNAA

Completion Date: 01/21/03

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.
SEE SHEET HP-2 FOR IRRIGATION RELOCATION PLANS.

COMMUNICATION SYSTEM (ROUTING)

SCALE 1:1000

E-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER: DAVID PADILLA

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LAST REVISION 00-00-00 | DATE PLOTTED => 29-MAY-2007 | TIME PLOTTED => 09:34

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DGN FILE => 712994u06.dgn

CU 07388 | EA 129941

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

Jacqueline C Tan 11-00
REGISTERED ELECTRICAL ENGINEER

5-7-01
PLANS APPROVAL DATE

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

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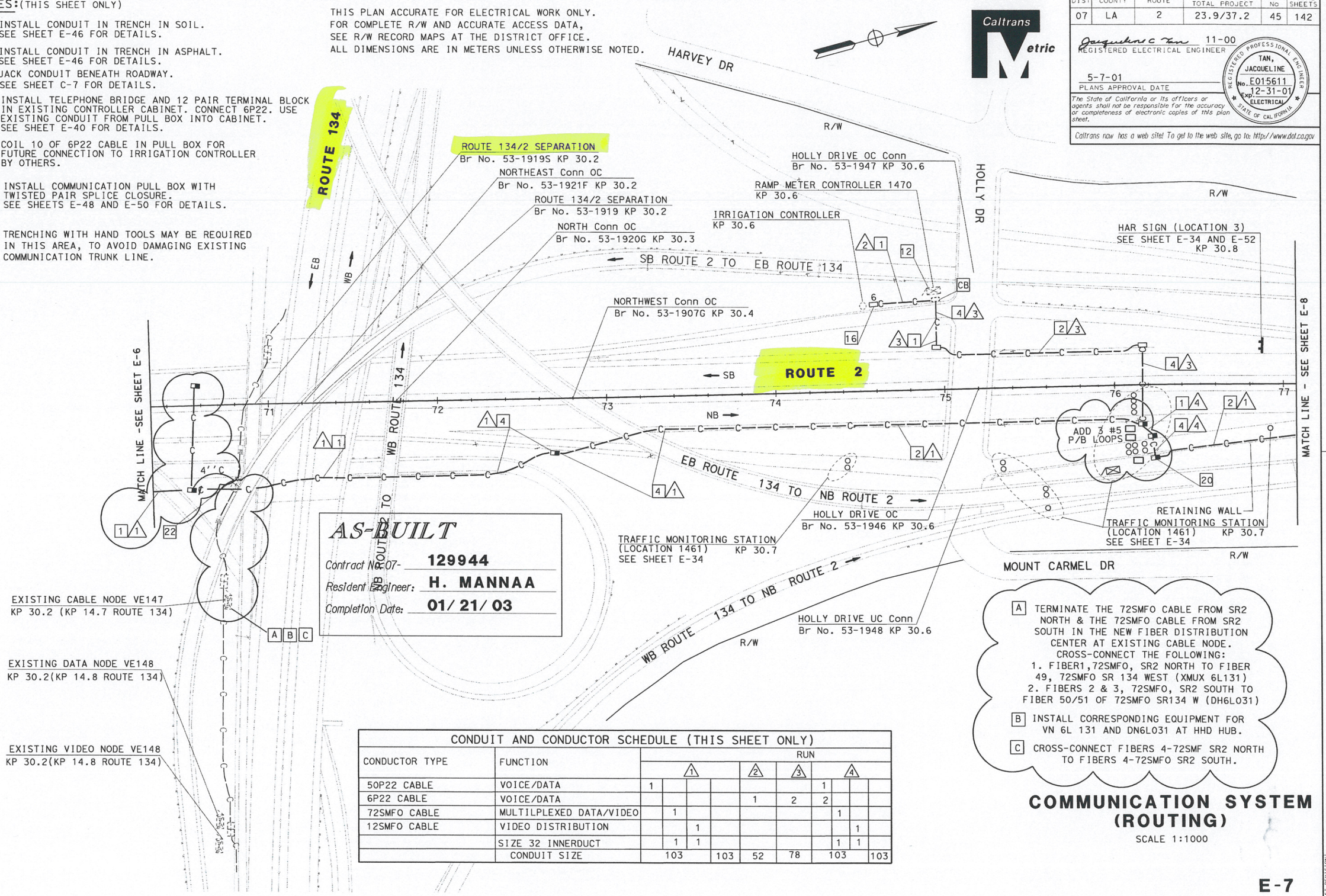
NOTES:(THIS SHEET ONLY)

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.
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.

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.



AS-BUILT
Contract No. 07- 129944
Resident Engineer: H. MANNAA
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 HHD 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				RUN 2	RUN 3	RUN 4			
50P22 CABLE	VOICE/DATA	1						1			
6P22 CABLE	VOICE/DATA					1	2	2			
72SMFO CABLE	MULTILPLEXED 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

E-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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PROJECT ENGINEER DAVID PADILLA

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CU 07388 | EA 129941

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

Jacqueline C Tan 11-00
REGISTERED ELECTRICAL ENGINEER

5-7-01
PLANS APPROVAL DATE

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

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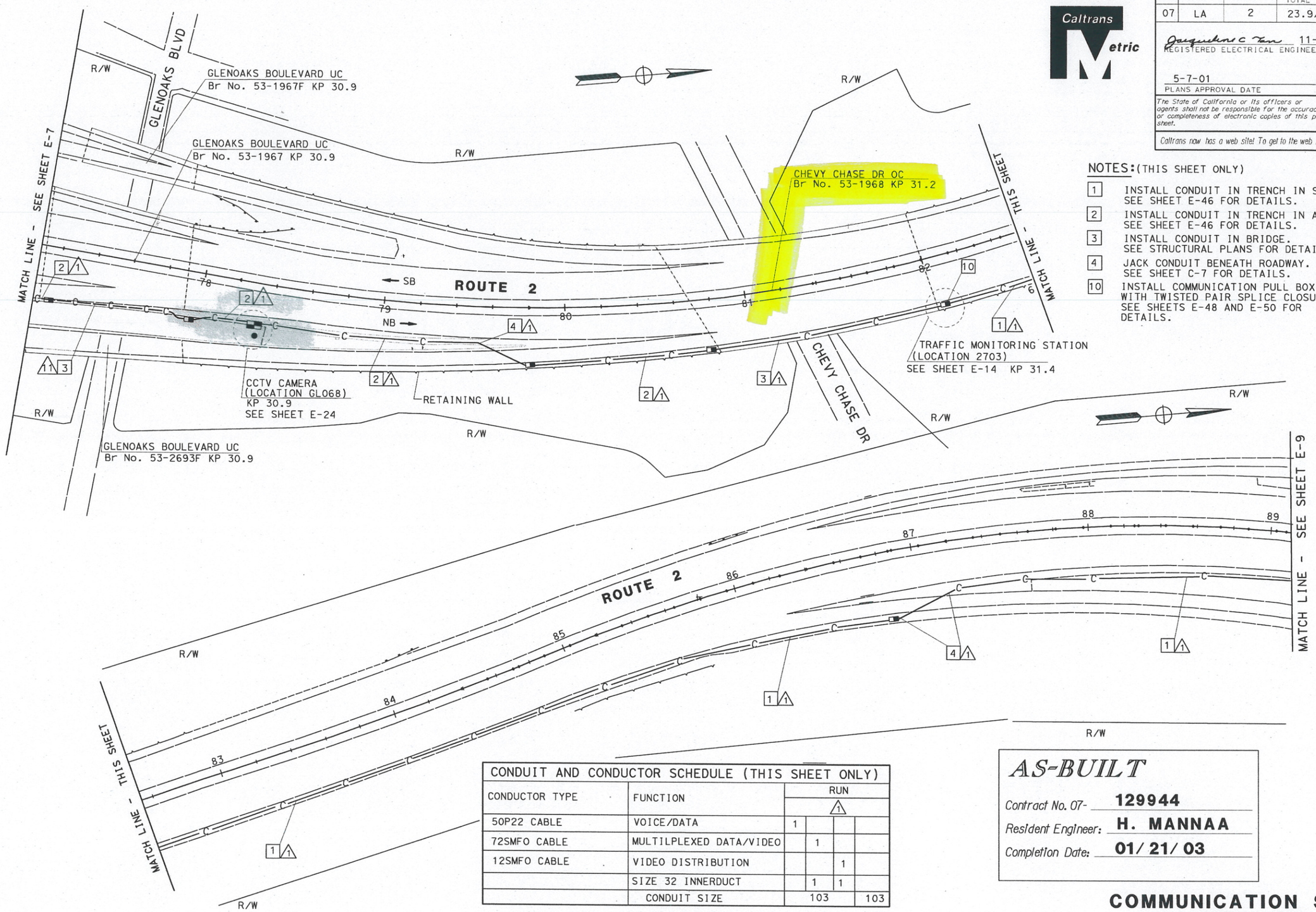

NOTES: (THIS SHEET ONLY)

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.
10. INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-48 AND E-50 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

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

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.

AS-BUILT

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

COMMUNICATION SYSTEM (ROUTING)

SCALE 1:1000

E-8

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CU 07388

EA 129941

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

Jacqueline C Tan 11-00
REGISTERED ELECTRICAL ENGINEER

5-7-01
PLANS APPROVAL DATE

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

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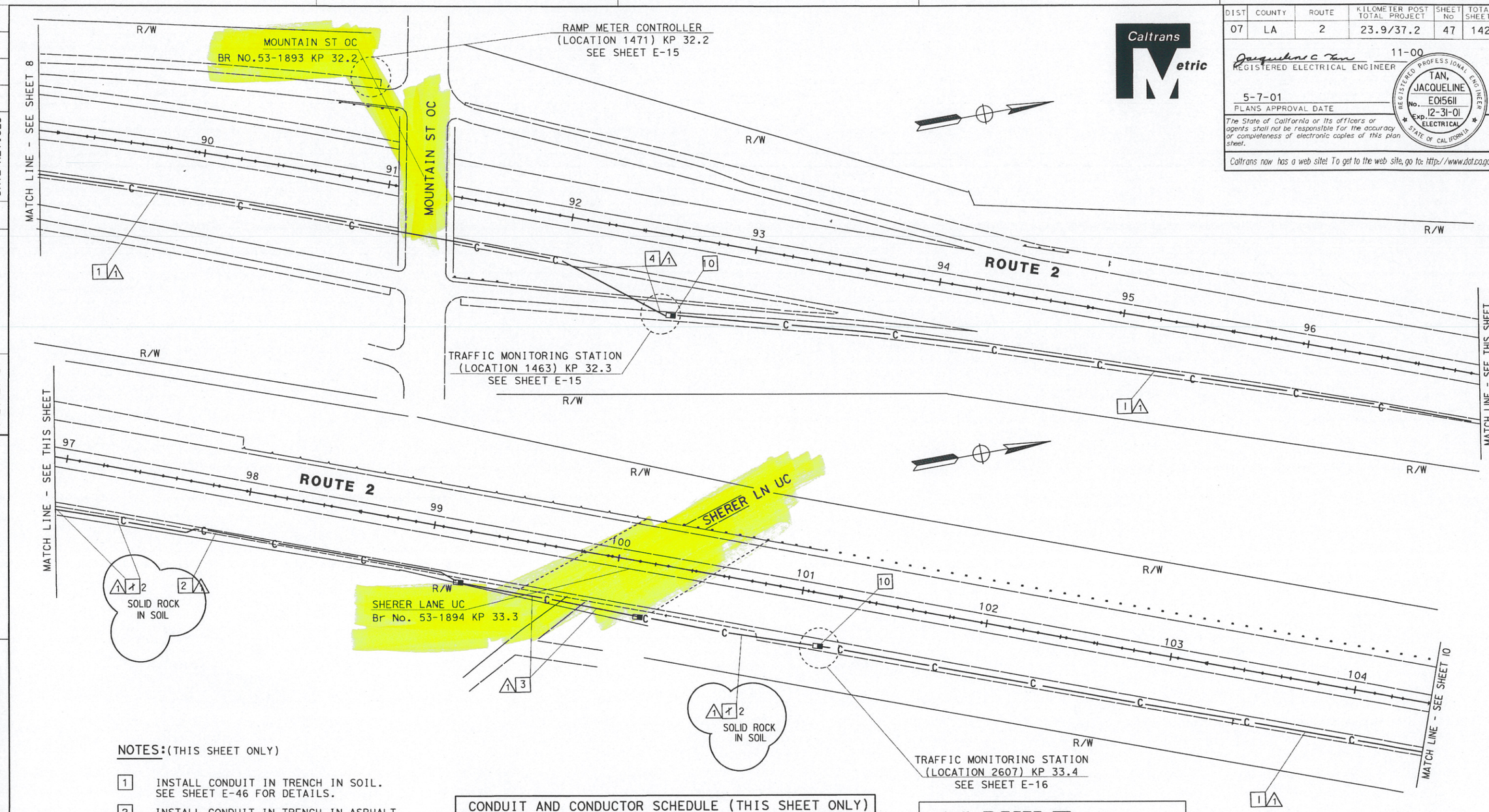

NOTES: (THIS SHEET ONLY)

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. 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.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1			
50P22 CABLE	VOICE/DATA	1			
6P22 CABLE	VOICE/DATA				
72SMFO CABLE	MULTILPLEXED 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. MANNAA**

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

THIS PLAN ACCURATE FOR ELCTRICAL 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.

COMMUNICATIONS SYSTEM (ROUTING)

SCALE 1:1000

E-9

DATE	REVISED BY	DATE REVISED

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PROJECT ENGINEER DAVID PADILLA

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CU 07388 | EA 129941

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	2	23.9/37.2	50	142

Jacqueline C Tan 11-00
REGISTERED ELECTRICAL ENGINEER

5-7-01
PLANS APPROVAL DATE

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

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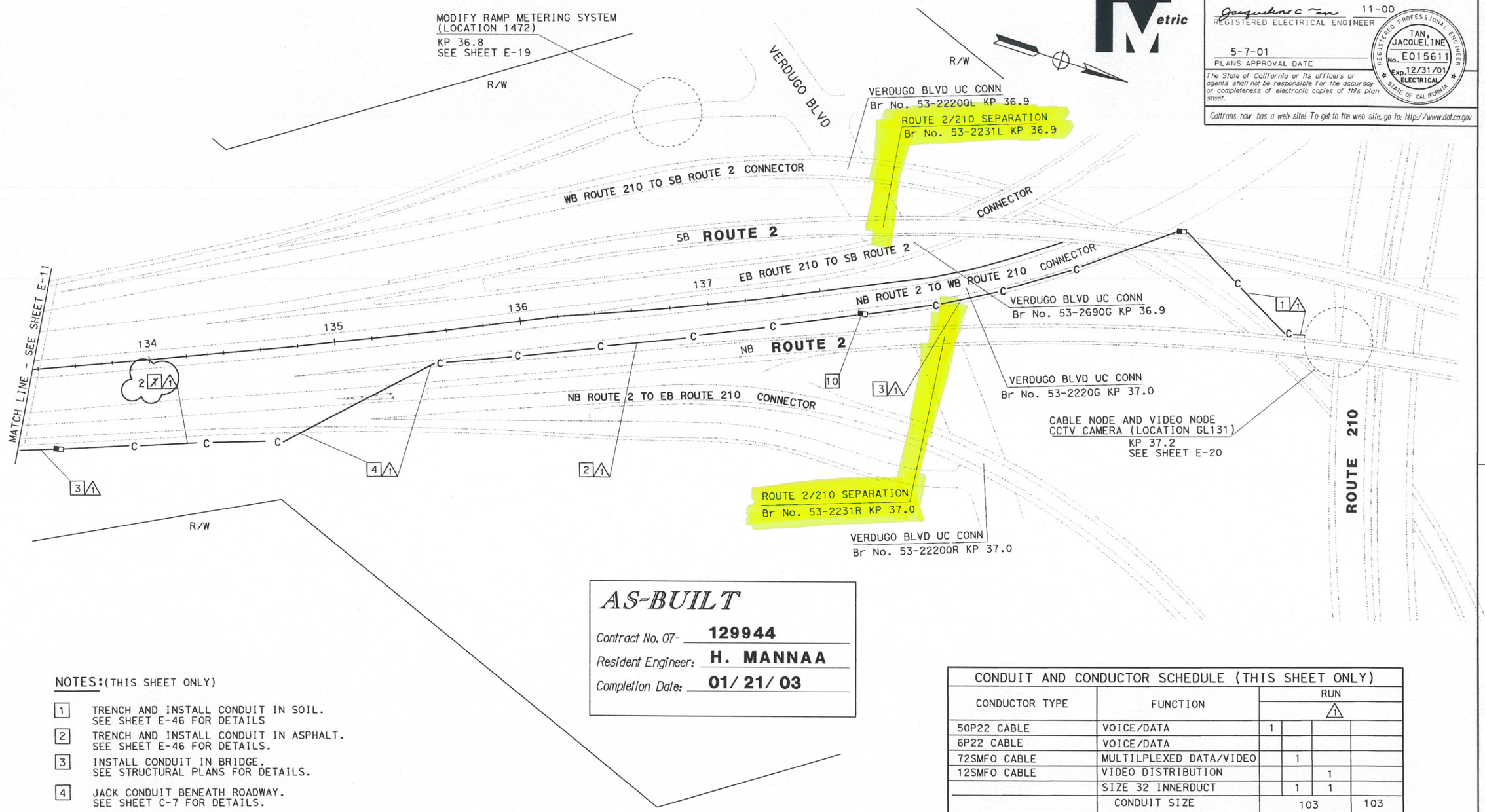

AS-BUILT

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

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-46 FOR DETAILS
2. TRENCH AND INSTALL CONDUIT 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 COMMUNICATIONS PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-48 AND E-50 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

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

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR COMPLETE R/W AND ACCURATE ACCESS DATA,
SEE SHEET HP-3 FOR IRRIGATION RELOCATION PLANS.
SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

COMMUNICATION SYSTEM (ROUTING)

SCALE 1:1000

E-12

DATE	REVISED BY	DATE REVISED

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CHECKED BY

PROJECT ENGINEER DAVID PADILLA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

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TIME PLOTTED => 09:34

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DGN FILE => 712994u12.dgn

CU 07388 EA 129441

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	210	R18.8/R24.9	35	95

Jacqueline C Tan 5/13/15
REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JACQUELINE C. TAN No. E015611 Exp. 12/31/15 ELECTRICAL STATE OF CALIFORNIA

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NOTE:

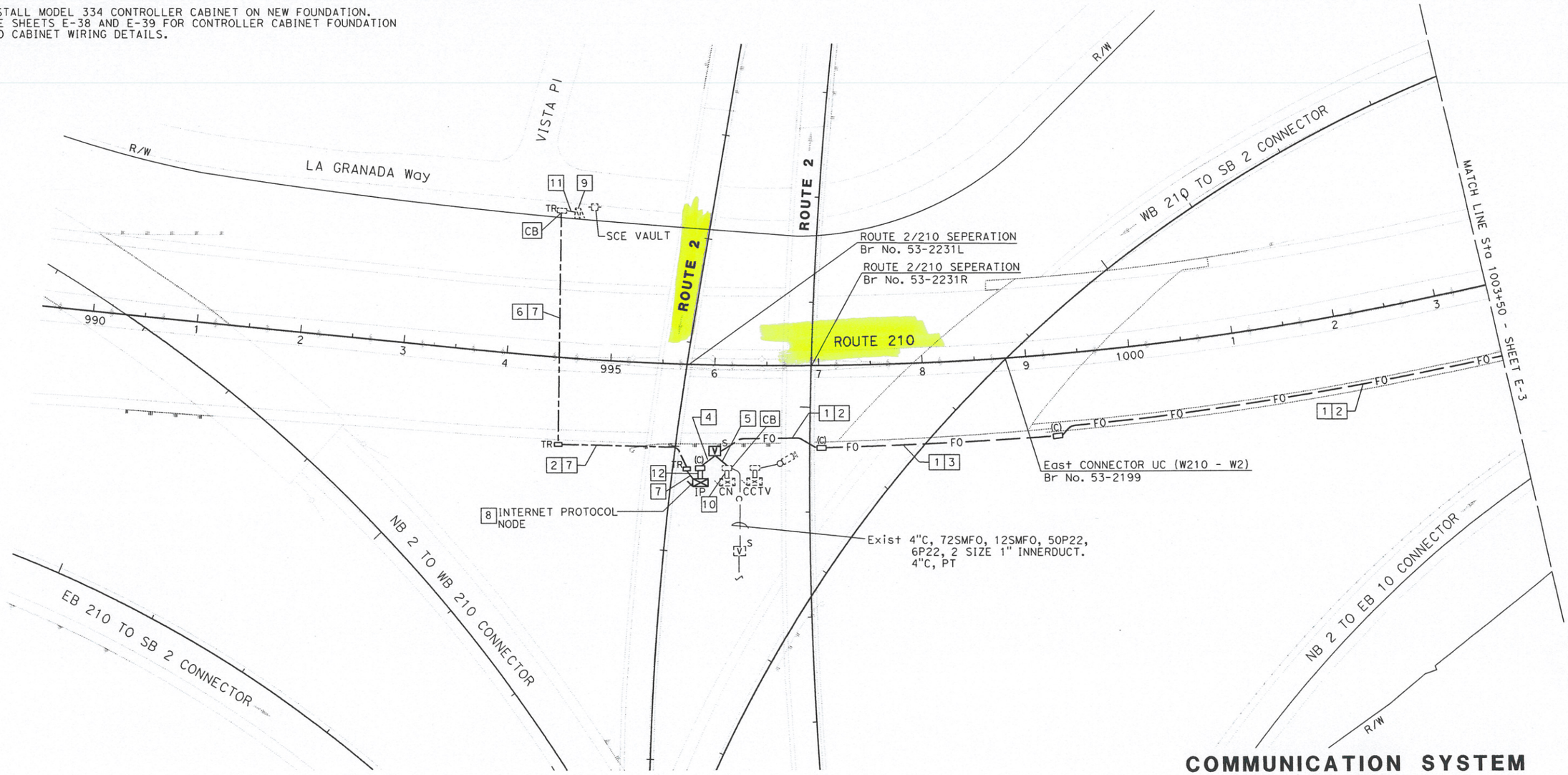
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND: (THIS SHEET ONLY)

1. INSTALL 2-48SMFO, 1-72SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL 4"C, PT.
2. TRENCH AND INSTALL CONDUITS IN Exist PAVEMENT. SEE SHEET E-35 FOR DETAIL.
3. ATTACH TYPE 1 CONDUITS TO THE BRIDGE RAILING. SEE STRUCTURE PLAN FOR DETAIL.
4. INSTALL 1-48SMFO, 1 SIZE 1" INNERDUCTS IN 3"C.
5. INSTALL 1-72SMFO, 1-48SMFO CABLE, 2 SIZE 1" INNERDUCTS IN 3"C.
6. JACK CONDUIT UNDERNEATH THE ROADWAY. SEE SHEET E-36 FOR DETAIL.
7. INSTALL 2#4, 1#4(G) IN 3"C.
8. INSTALL MODEL 334 CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEETS E-38 AND E-39 FOR CONTROLLER CABINET FOUNDATION AND CABINET WIRING DETAILS.
9. EXISTING 120/240V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH:
   - 1-100 A, 240 V, 2P, CB - MAIN
   - 1- 30 A, 240 V, 2P, CB - Ltg CIRCUIT #1
   - 1- 30 A, 240 V, 2P, CB - Ltg CIRCUIT #2
   - 1- 30 A, 240 V, 2P, CB - Ltg CIRCUIT #3
   - 1- 20 A, 240 V, 2P, CB - SOFFITS
   - 1- 15 A, 120 V, 1P, CB - PEC

   ADD
   - 1- 20 A, 240 V, 1P, CB - INTERNET PROTOCOL NODE

   CTID No.07-53-210-R-18.750
   ADDRESS: 1890 ½ LA GRANADA Way
10. Exist 4"C, PT. ADD 1-72SMFO, 1-48SMFO CABLE, 2 SIZE 1" INNERDUCTS
11. Exist 3"C, 2#4, 4#6, 3#8. ADD 2#4, 1#4 (G).
12. INSTALL 1-48SMFO AND 1 SIZE 1" INNERDUCTS IN 3"C. INSTALL 3"C, PT.



COMMUNICATION SYSTEM

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE C. TAN
REVISED BY / DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-JUL-2015
TIME PLOTTED => 09:35

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	42.8/47.3	382	1073

Caltrans Metric

5/5/08
REGISTERED ELECTRICAL ENGINEER

6-8-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CANDACE FUNG No. E16936 Exp. 06/30/09 ELECTRICAL STATE OF CALIFORNIA

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.

Rte. 5

GENERAL NOTES:

1. CONDUITS CONTAINING FIBER OPTIC CABLE SHALL ENTER PULL BOXES ON THE SHORT SIDE ONLY.
2. EXISTING IRRIGATION SYSTEMS ARE NOT SHOWN FOR CLARITY.
3. FIBER OPTICS CONDUITS SHALL HAVE A TRACER WIRE, EXCEPT IN TYPE 1 CONDUITS. SEE E-27 FOR DETAILS.
4. COMMUNICATION CONDUIT SHALL BE CENTERED IN THE PAVED SHOULDER OR AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
5. AT VARIOUS LOCATIONS, CONDUITS SHALL BE INSTALLED ACROSS NEW WALLS. THE CONTRACTOR SHALL EITHER CORE THROUGH THE WALL OR INSTALL THE CONDUITS DURING SOUNDWALL CONSTRUCTION.
6. INSTALL CONTROLLER CABINETS 9.1 m FROM ETW OR 1.2 m BEHIND GUARD RAILING.

ABBREVIATIONS:

36SMFO	-	36 SINGLEMODE FIBER OPTIC CABLE	TB	-	TERMINAL BLOCK
72SMFO	-	72 SINGLEMODE FIBER OPTIC CABLE	TDM	-	TIME DIVISION MULTIPLEXER
4WTO	-	FOUR WIRE TRANSMIT ONLY	TPC	-	TWISTED PAIR CABLE
AWG	-	AMERICAN WIRE GAUGE	TX	-	TRANSMIT
CCM	-	CAMERA CONTROL MODEM	VN	-	VIDEO NODE
CCR	-	CAMERA CONTROL RECEIVER	VMX	-	VIDEO MULTIPLEXER
COAX	-	COAXIAL CABLE	VR	-	VIDEO RECEIVER
DN	-	DATA NODE	VRD	-	VIDEO RECEIVER/DATA TRANSCEIVER
FDU	-	FIBER DISTRIBUTION UNIT	VTD	-	VIDEO TRANSMITTER/DATA TRANSCEIVER
FOCM	-	FIBER OPTIC CONTROL MODEM			
FOTM	-	FIBER OPTIC TRAFFIC MODEM			
LCU	-	LOCAL CONTROL UNIT			
MMFO	-	MULTIMODE FIBER OPTIC CABLE			
P19	-	PAIR 19 AMERICAN WIRE GAUGE			
P22	-	PAIR 22 AMERICAN WIRE GAUGE			
PDA	-	POWER DISTRIBUTION ASSEMBLY			
PR	-	PAIR			
RX	-	RECEIVE			
SM	-	SINGLEMODE			
SMFO	-	SINGLEMODE FIBER OPTIC CABLE			

LEGENDS:

DN	EXISTING DATA NODE
VN	EXISTING VIDEO NODE
CCTV	EXISTING CCTV CABINET
CCTV	RELOCATED CCTV CABINET
V	NEW SPLICE VAULT
V	EXISTING SPLICE VAULT
	COIL CABLE IN PULL BOX
	SINGLE SPLICE IN FIBER OPTIC SPLICE CLOSURE
	MULTIPLE SPLICES IN FIBER OPTIC SPLICE CLOSURE

MODIFY COMMUNICATION SYSTEM
MODIFY CLOSED CIRCUIT TELEVISION CAMERA
(LEGEND AND NOTES)

NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE C. TAN
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-AUG-2012
TIME PLOTTED => 07:05

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	42.8/47.3	388	1073

REGISTERED ELECTRICAL ENGINEER 5/5/08

6-8-09
PLANS APPROVAL DATE

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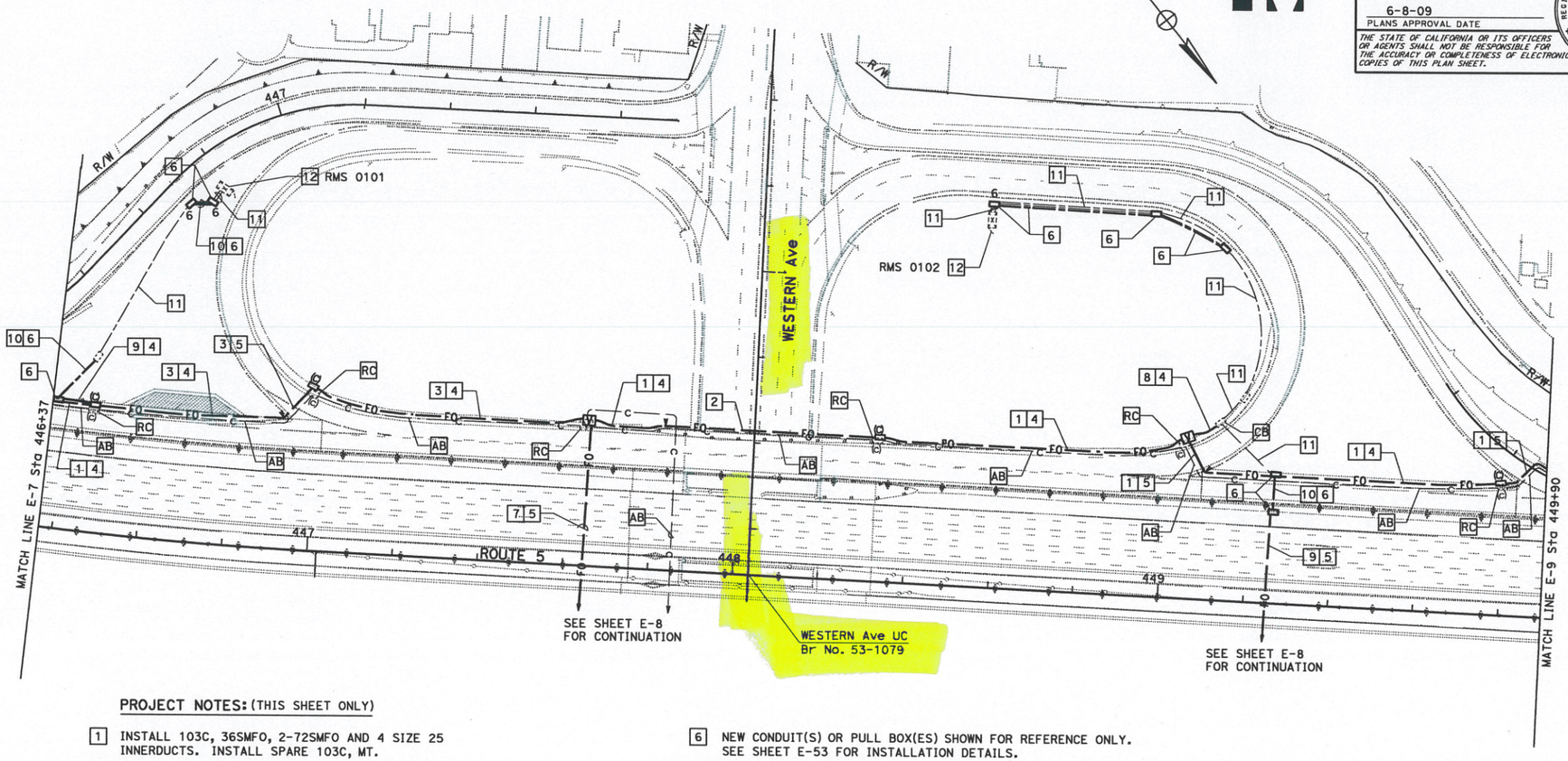
REGISTERED PROFESSIONAL ENGINEER CANDACE FUNG No. E16936 Exp. 06/30/09 ELECTRICAL STATE OF CALIFORNIA

Caltrans Metric

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



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 103C, 36SMFO, 2-72SMFO AND 4 SIZE 25 INNERDUCTS. INSTALL SPARE 103C, MT.
2. INSTALL 91C, 36SMFO, 2-72SMFO AND 4 SIZE 25 INNERDUCTS. INSTALL SPARE 91C, MT. SEE BRIDGE STRUCTURE PLANS FOR DETAILS.
3. INSTALL 103C, 2-12SMFO, 36SMFO, 2-72SMFO AND 4 SIZE 25 INNERDUCTS. INSTALL SPARE 103C, MT.
4. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.
5. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-28 FOR DETAILS.
6. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-53 FOR INSTALLATION DETAILS.
7. INSTALL 78C, 3-12SMFO AND SIZE 25 INNERDUCT.
8. INSTALL 78C, 2-12SMFO AND SIZE 25 INNERDUCT.
9. INSTALL 78C, 12SMFO AND SIZE 25 INNERDUCT.
10. INSTALL 12SMFO IN SIZE 25 INNERDUCT.
11. ADD 12SMFO IN SIZE 25 INNERDUCT IN EXISTING CONDUIT.
12. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12SMFO. SEE SHEET E-30 FOR DETAILS.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-1.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

E-7

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE C. TAN
FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

LAST REVISION 00-00-00 | DATE PLOTTED => 30-AUG-2012 | TIME PLOTTED => 07:11

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

Dist	COUNTY	ROUTE	KILOMETER POST-TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	42.8/47.3	389	1073

REGISTERED ELECTRICAL ENGINEER 5/5/08

6-8-09
PLANS APPROVAL DATE

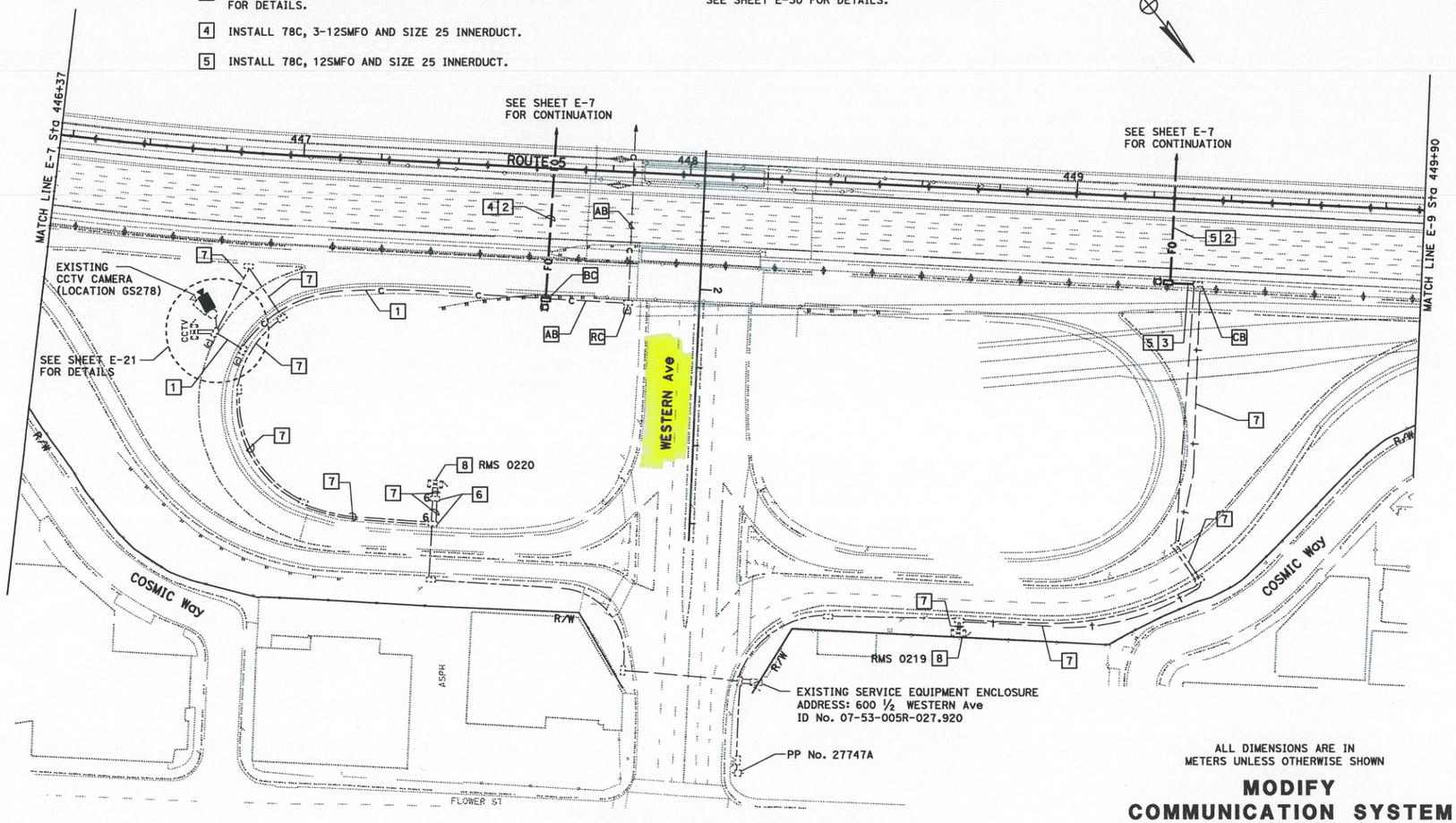
REGISTERED PROFESSIONAL ENGINEER CANDACE FUNG No. E16936 Exp. 06/30/09 ELECTRICAL STATE OF CALIFORNIA

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.

Caltrans Metric

PROJECT NOTES: (THIS SHEET ONLY)

1. EXISTING 78C, RC CABLES. INSTALL 3-12SMFO IN SIZE 25 INNERDUCT.
2. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-28 FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.
4. INSTALL 78C, 3-12SMFO AND SIZE 25 INNERDUCT.
5. INSTALL 78C, 12SMFO AND SIZE 25 INNERDUCT.
6. INSTALL 12SMFO IN SIZE 25 INNERDUCT.
7. ADD 12SMFO IN SIZE 25 INNERDUCT IN EXISTING CONDUIT.
8. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12SMFO. SEE SHEET E-30 FOR DETAILS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-1.

E-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE C. TAN
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-AUG-2012
TIME PLOTTED => 07:11

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s113750
DGN FILE => 712184ua008.dgn
CU 07388
EA 121841

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	42.8/47.3	392	1073

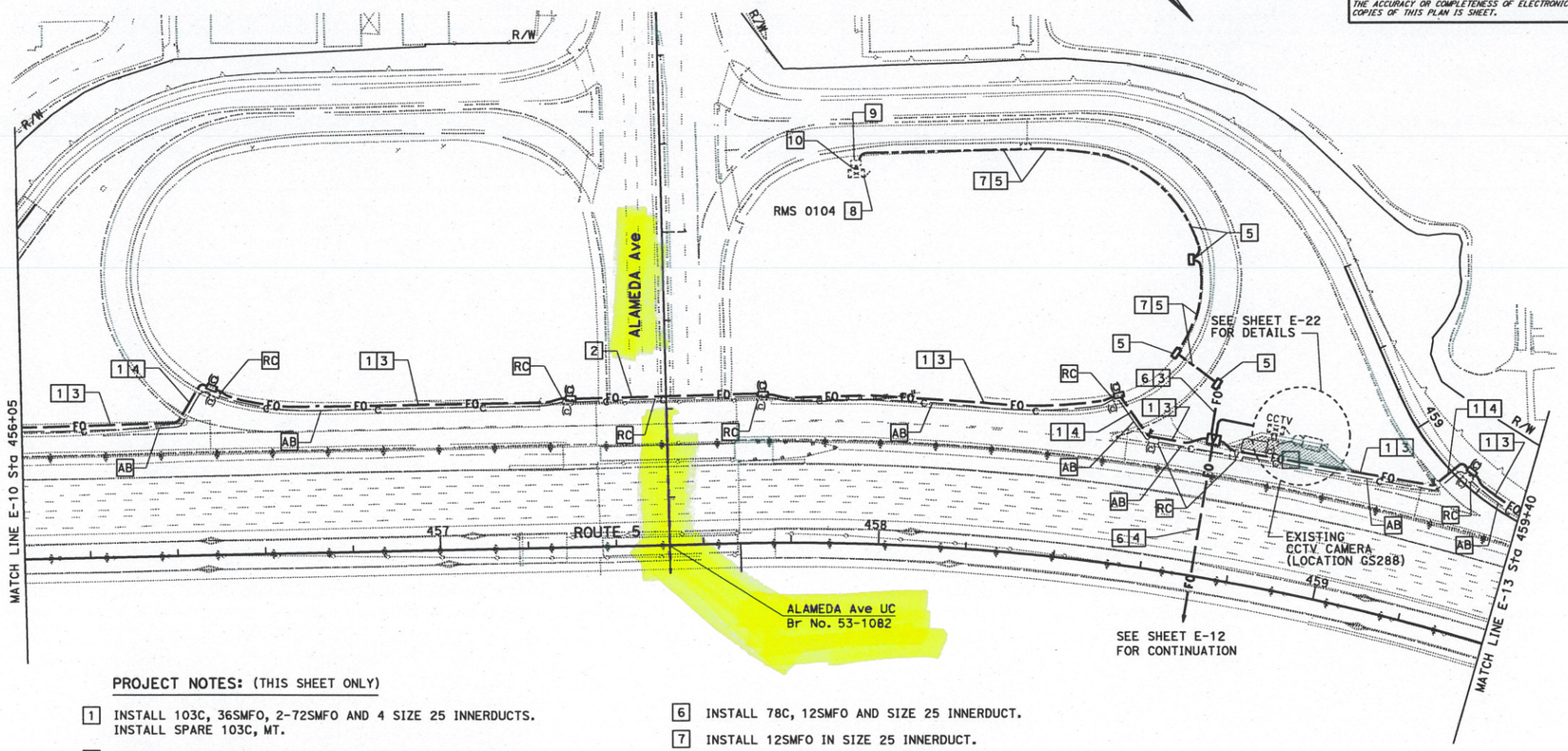
REGISTERED ELECTRICAL ENGINEER 5/5/08

6-8-09
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN IS SHEET.

REGISTERED PROFESSIONAL ENGINEER CANDACE FUNG No. E16936 Exp. 06/30/09 ELECTRICAL STATE OF CALIFORNIA

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



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 103C, 36SMFO, 2-72SMFO AND 4 SIZE 25 INNERDUCTS. INSTALL SPARE 103C, MT.
2. INSTALL 91C, 36SMFO, 2-72SMFO AND 4 SIZE 25 INNERDUCTS. INSTALL SPARE 91C, MT. SEE BRIDGE STRUCTURE PLANS FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.
4. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-28 FOR DETAILS.
5. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-55 FOR INSTALLATION DETAILS.
6. INSTALL 78C, 12SMFO AND SIZE 25 INNERDUCT.
7. INSTALL 12SMFO IN SIZE 25 INNERDUCT.
8. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12SMFO. SEE SHEET E-30 FOR DETAILS.
9. INSTALL 12SMFO IN SIZE 25 INNERDUCT.
10. ADD 12SMFO IN SIZE 25 INNERDUCT IN EXISTING CONDUIT.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-1.

E-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE C. TAN
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 30-AUG-2012 | TIME PLOTTED => 07:11

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s113750 | DGN FILE => 712184uc011.dgn | CU 07388 | EA 121841

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

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	42.8/47.3	393	1073

5/5/08
REGISTERED ELECTRICAL ENGINEER

6-8-09
PLANS APPROVAL DATE

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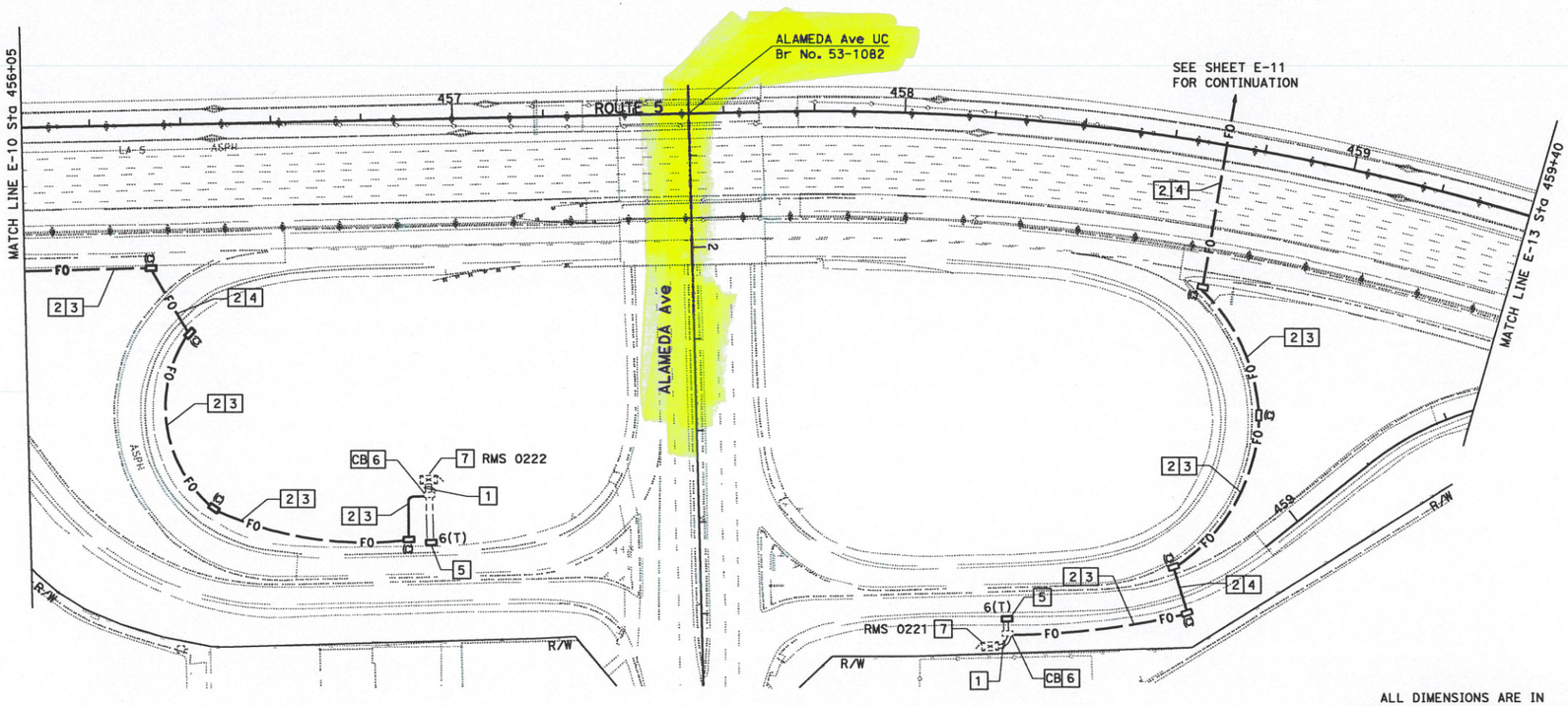
REGISTERED PROFESSIONAL ENGINEER CANDACE FUNG No. E16936 Exp. 06/30/09 ELECTRICAL STATE OF CALIFORNIA

Caltrans Metric

PROJECT NOTES: (THIS SHEET ONLY)

1. ADD 12SMFO IN SIZE 25 INNERDUCT IN EXISTING CONDUIT.
2. INSTALL 78C, 12SMFO AND SIZE 25 INNERDUCT.
3. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.
4. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-28 FOR DETAILS.
5. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-56 FOR INSTALLATION DETAILS.
6. INSTALL 12SMFO IN SIZE 25 INNERDUCT.
7. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12SMFO. SEE SHEET E-30 FOR DETAILS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-1.

E-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE C. TAN
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-AUG-2012
TIME PLOTTED => 07:12

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s113750
DGN FILE => 712184ua012.dgn
CU 07388
EA 121841

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

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	42.8/47.3	395	1073

5/5/08
REGISTERED ELECTRICAL ENGINEER

6-8-09
PLANS APPROVAL DATE

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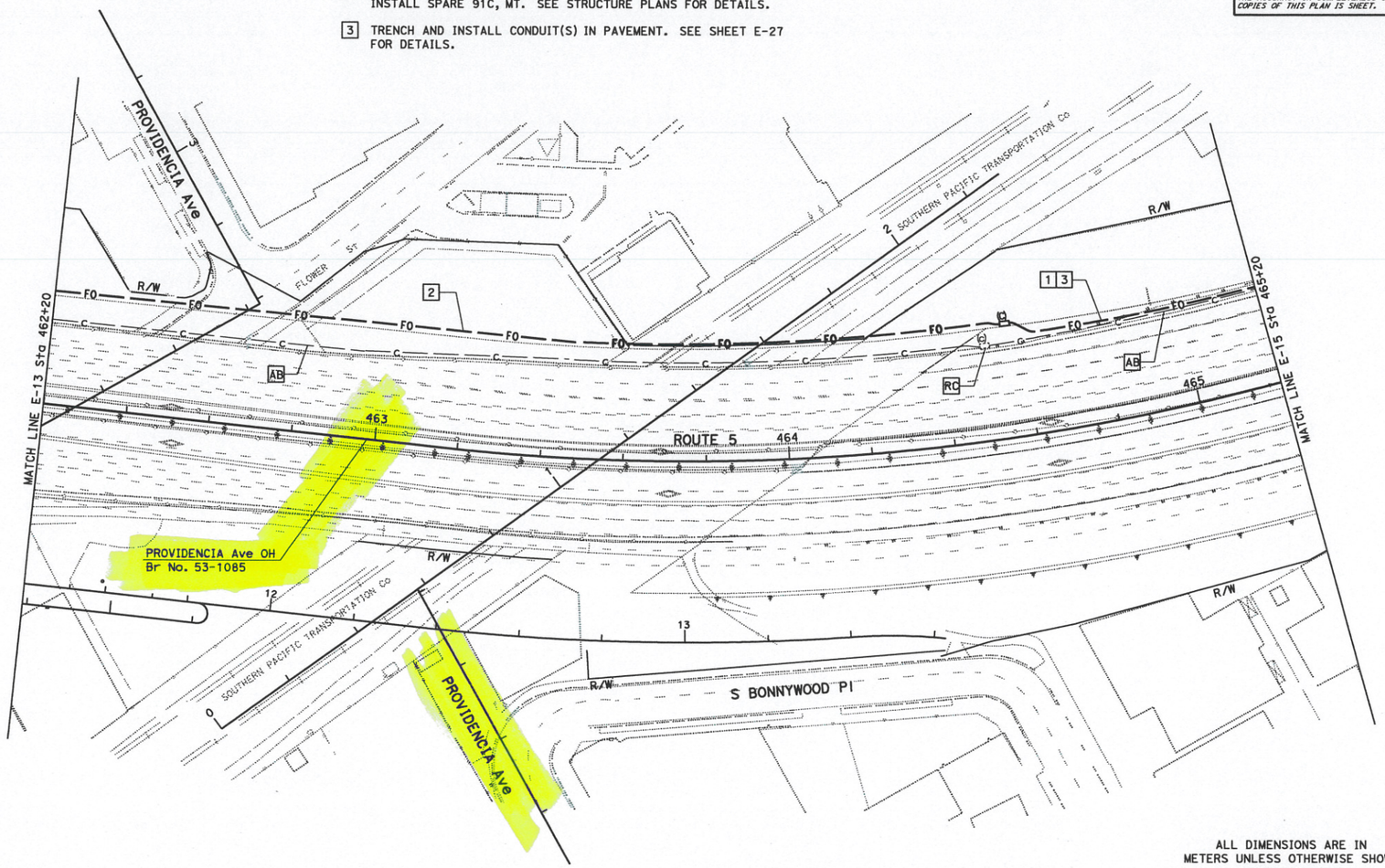
REGISTERED PROFESSIONAL ENGINEER CANDACE FUNG No. E16936 Exp. 06/30/09 ELECTRICAL STATE OF CALIFORNIA

Caltrans Metric

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 103C, 36SMFO, 2-72SMFO AND 4 SIZE 25 INNERDUCTS. INSTALL SPARE 103C, MT.
2. INSTALL 91C, 36SMFO, 2-72SMFO AND 4 SIZE 25 INNERDUCTS. INSTALL SPARE 91C, MT. SEE STRUCTURE PLANS FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-1.

E-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE C. TAN
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 30-AUG-2012 | TIME PLOTTED => 07:12

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s113750
DGN FILE => 712184ua014.dgn

CU 07388

EA 121841

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	134	0.0/21.8	1	209

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN LOS ANGELES COUNTY
IN LOS ANGELES, BURBANK AND GLENDALE
FROM ROUTE 101 TO ROUTE 210

To be supplemented by Standard Plans dated July, 1995

INDEX OF SHEETS

Sheet Number	
1	Title and Location Map
2-3	Standard Plans List
4	Key Map and Line Index
5-22	Layouts
23-35	Construction Details
36-69	Utility Plans
70-76	Traffic Handling Plans
77-78	Construction Area Signs
79-80	Summary of Quantities
81	Sign Details
82-87	Retaining Wall Plans
88-202	Electrical Plans
203-209	Revised and New Standard Plans

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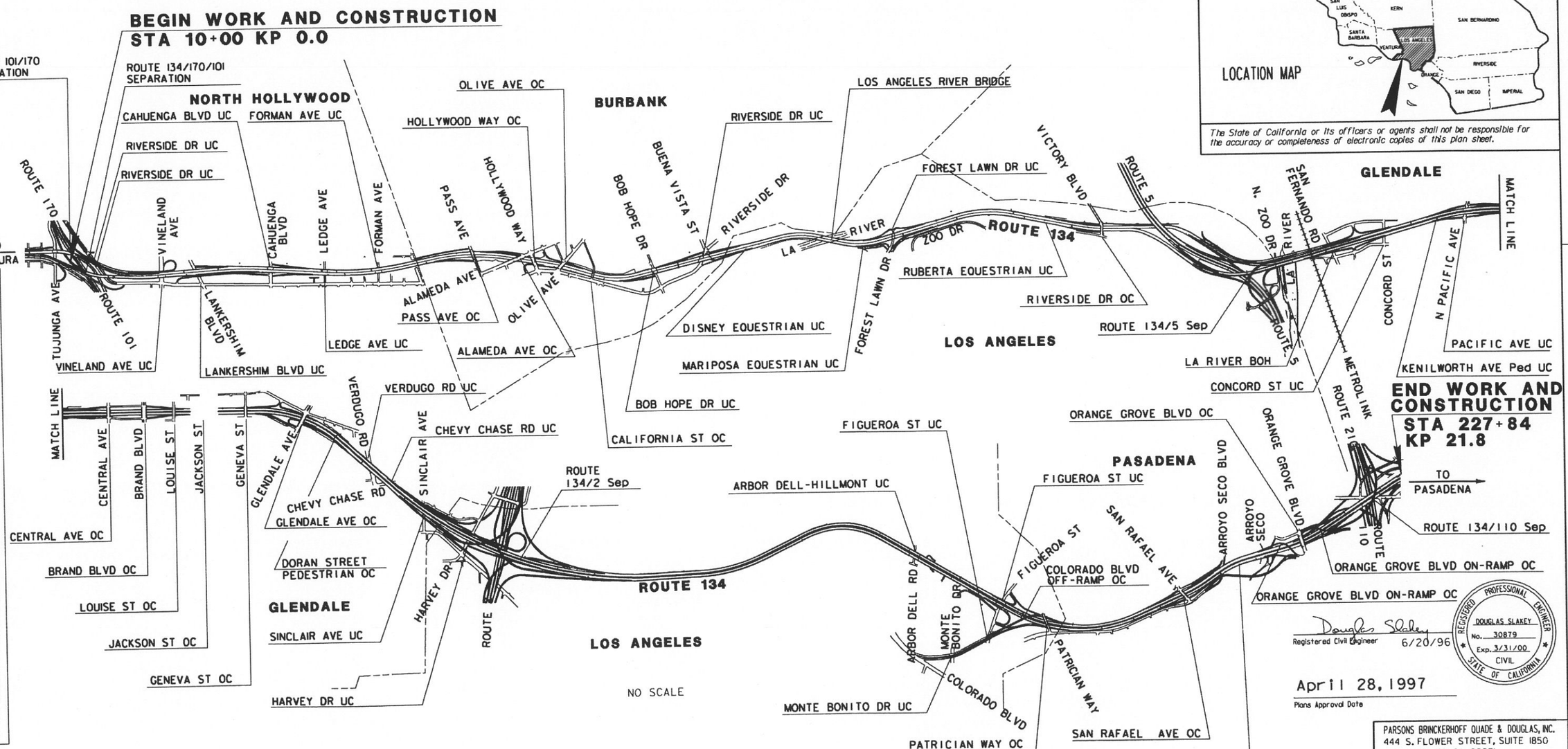

Registered Civil Engineer 6/20/96

April 28, 1997
Plans Approval Date

REGISTERED PROFESSIONAL ENGINEER DOUGLAS SLAKEY No. 30879 Exp. 3/31/00 CIVIL STATE OF CALIFORNIA

The Contractor shall possess the Class (or Classes) of license as specified in the "Notice to Contractors".

DESIGN OVERSIGHT APPROVAL: PAT SULLIVAN — REGISTRATION NO. C30912 — DATE 11/26/96

APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED AS DESCRIBED IN THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, A&E CONSULTANT SERVICES MANUAL

PROJECT ENGINEER

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

Contract No. 07-129924

LAST REVISION 00-00-00 — DATE PLOTTED => 8DATE — TIME PLOTTED => 8TIME

FOR REDUCED PLANS ORIGINAL SCALE IS ... 0 20 40 60 80

CU 07396 — EA 129921

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	134	0.0/21.8	88	209

Monica M. Suter 6/20/96
REGISTERED CIVIL ENGINEER

4-28-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MONICA SUTER No. C048591 Exp. 6-30-00 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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Caltrans Metric

GENERAL NOTES:

1. REFER TO SHEETS E-97 AND E-98 FOR A LISTING OF ROUTE 134 ELEMENTS.
2. ALL IRRIGATION CONTROLLERS ARE EXISTING UNLESS OTHERWISE NOTED ON THE PLANS.
3. ALL CONDUIT CONTAINING FIBER OPTIC CABLE SHALL ENTER PULL BOXES ON THE SHORT SIDE ONLY.
4. ALL PULL BOXES AND SPLICE VAULTS SHALL BE INSTALLED IN THE UNPAVED AREA IMMEDIATELY ADJACENT TO THE PAVED SHOULDER OR BEHIND MBGR. CONDUIT SHALL BE DIRECTED FROM THE SHOULDER TO THE BOXES WITH 22 ½ DEGREE BENDS.
5. REFER TO CONDUCTOR SCHEDULES ON PLANS FOR CONDUIT SIZES AND CONDUCTOR TYPES.
6. ALL NEW SERVICE EQUIPMENT ENCLOSURES SHALL ALSO HAVE:
   (1) 1P, 20 A BREAKER (SPARE)
   (1) 1P, 30 A BREAKER (SPARE)
   (1) 2P. (SPACE FOR FUTURE)
7. SIZE 103 CONDUITS TO BE INSTALLED IN PAVEMENT MAINTAINING 100 mm MINIMUM DISTANCE FROM EDGE OF TRAVELED WAY UNLESS OTHERWISE NOTED.
8. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE IN WRITING TO THE ENGINEER.
9. SERVICE EQUIPMENT ENCLOSURE SHALL BE LOCATED 5 m MINIMUM FROM THE POWER POLE OR VAULT.
10. ELECTRICAL SERVICE INSTALLATION SHALL MEET THE REQUIREMENTS OF EITHER SOUTHERN CALIFORNIA EDISON COMPANY (SCE) OR LOS ANGELES DEPARTMENT OF WATER AND POWER (DWP).
11. CONDUCTORS FROM POWER POLE (OR VAULT) TO SERVICE ENCLOSURE WILL BE INSTALLED BY UTILITY COMPANY.
12. TRENCH FOR CONDUIT INSTALLATION BETWEEN POWER POLE (OR VAULT) AND SERVICE ENCLOSURE SHALL BE LEFT OPEN FOR INSPECTION AND APPROVAL BY SCE OR DWP INSPECTOR BEFORE BACKFILL.
13. STATIONS GIVEN ARE APPROXIMATE, EXACT EQUIPMENT AND POLE LOCATIONS TO BE DETERMINED BY ENGINEER.

LEGEND: (NOT LISTED IN CALTRANS STANDARD PLANS)

- SPLICE VAULT
- DATA, VIDEO OR CABLE NODE TYPE 334-TV CABINET
- TYPE 334 - TV CABINET
- COMMUNICATION PULL BOX
- CCTV CAMERA ASSEMBLY AND POLE
- EXISTING CCTV CAMERA ASSEMBLY AND POLE
- EXISTING VAULT
- EXISTING SPLICE VAULT
- --E--E ELECTRICAL SERVICE CONDUIT(S)
- —— C —— COMMUNICATION CONDUIT(S)
- --e--e EXISTING ELECTRICAL SERVICE CONDUIT(S)
- EXISTING PIEZOELECTRIC OR AVC SENSORS
- OPTICAL FIBER CABLE

ABBREVIATIONS: (NOT LISTED IN CALTRANS STANDARD PLANS)

#	NUMBER	OW	ORDER WIRE (MULTIPLE VOICE CIRCUIT)
AVC	AUTOMATIC VEHICLE CLASSIFICATION SYSTEM	P	PAIR
AWG	AMERICAN WIRE GAUGE	P22	PAIR 22 AMERICAN WIRE GAUGE
B/O	BREAKOUT	PAC BELL	PACIFIC BELL TELEPHONE COMPANY
BOH	BRIDGE AND OVERHEAD	PCMS	PASADENA CITY MUNICIPAL SERVICES
BPSD	BURBANK POWER SERVICES DEPARTMENT	PDA	POWER DISTRIBUTION ASSEMBLY
CCR	CAMERA CONTROL RECEIVER	PR	PAIR
CIA	CONTROLLER INTERFACE ASSEMBLY	RCVR	RECEIVER
COAX	COAXIAL	RMC	RAMP METER CONTROLLER
COMM	COMMUNICATION	RMS	RAMP METERING SYSTEM
CTRL	CONTROLLER	RX	RECEIVE
DACCS	DIGITAL ACCESS AND CROSS CONNECTION SYSTEM	SCE	SOUTHERN CALIFORNIA EDISON
DEMARC	DEMARCATION	SCGAS	SOUTHERN CALIFORNIA GAS COMPANY
DEMUX	DEMULTIPLEX	SCWC	SOUTHERN CALIFORNIA WATER COMPANY
DWP	LA DEPARTMENT OF WATER AND POWER	SMFO	SINGLEMODE FIBER OPTIC
E/O	EAST OF	S/O	SOUTH OF
FDF	FIBER DISTRIBUTION FRAME	TMS	TRAFFIC MONITORING STATION
FDU	FIBER DISTRIBUTION UNIT	TWP	TWISTED WIRE PAIR
GPSD	GLENDALE POWER SERVICES DEPARTMENT	TX	TRANSMIT
GTE	GENERAL TELEPHONE AND ELECTRIC	VE	VENTURA FREEWAY
JKFD	JACKFIELD	VMX	VIDEO MULTIPLEXER
KP	KILOMETER POST	W/O	WEST OF
LA	LOS ANGELES	XCVR	TRANSCEIVER
MUX	MULTIPLEX	XFMR	TRANSFORMER
NHD	NORTH HOLLYWOOD	XMTR	TRANSMITTER
N/O	NORTH OF		

TABLE 1 - CCTV CONTROL CABLE

CONDUCTOR TYPE	FUNCTION	QUANTITY
9P18 AWG CABLE	PAN/TILT CONTROL CABLE	1
12P18 AWG CABLE	CAMERA CONTROL CABLE	1
RG-6A/U COAX CABLE	CAMERA VIDEO INTERFACE CABLE	1

TABLE 2 - CMS CONTROL CABLE

CONDUCTOR TYPE	FUNCTION	QUANTITY
24P18 AWG CABLE *	CMS CONTROL CABLE *	1
6P18 AWG CABLE *	CMS CONTROL CABLE *	1

* STATE-FURNISHED CABLES.

CCTV AND COMMUNICATION SYSTEM (LEGEND AND NOTES)

NO SCALE

E-1

CALCULATED/ DESIGNED BY	MMS	DATE 6/96	REVISED BY
CHECKED BY	DS	6/96	DATE REVISED

PROJECT ENGINEER PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$SYTIME$$$$$$

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07396 EA 129921

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	134	0.0/21.8		

Monica M. Suter 6/20/96
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MONICA SUTER No. C048591 Exp. 6-30-00 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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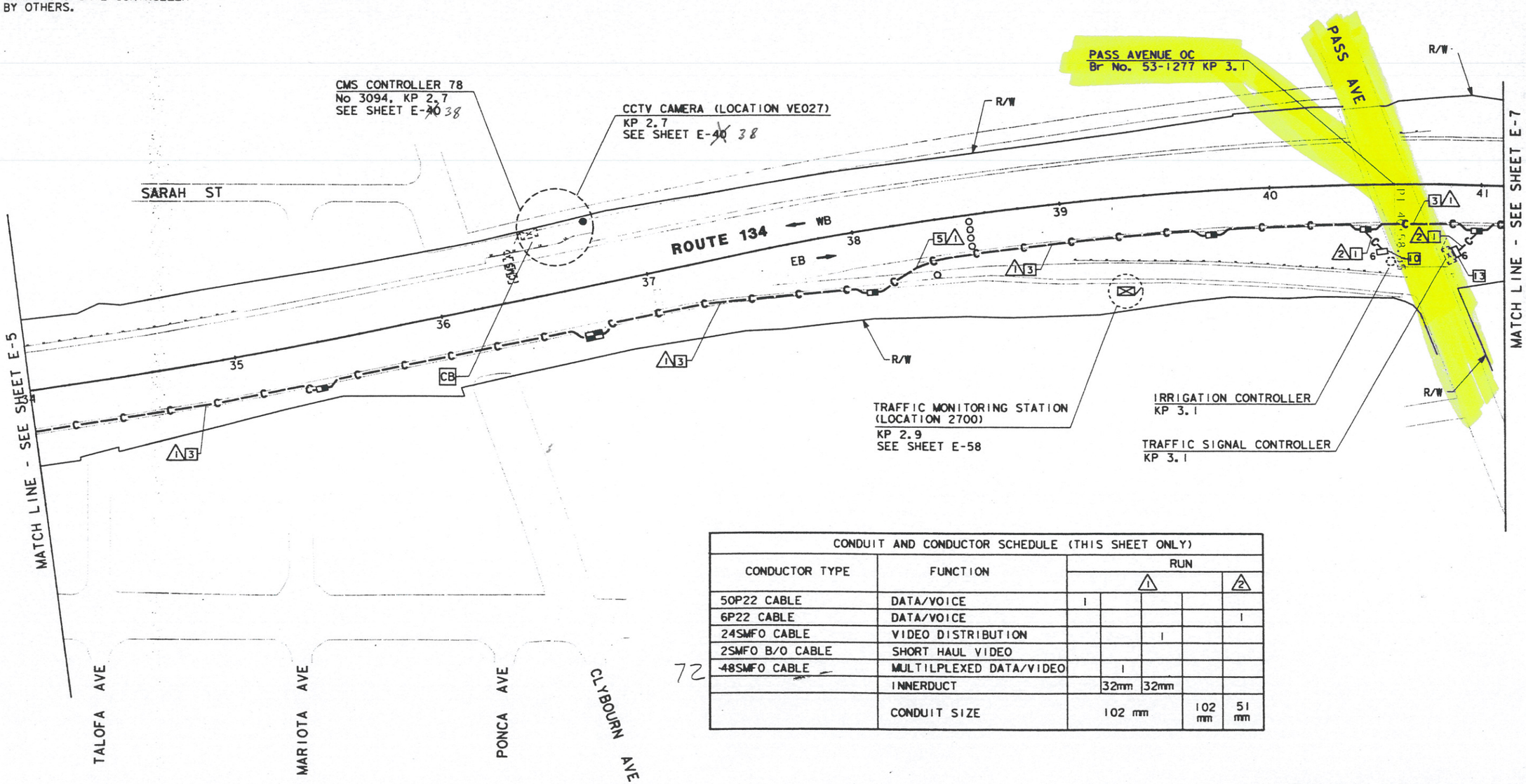
NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
3. TRENCH AND INSTALL CONDUIT IN ASPHALT.
5. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
10. COIL 10m OF 6P22 IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER BY OTHERS.
13. COIL 10m OF 6P22 IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL CONTROLLER BY OTHERS.



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUCTOR TYPE	FUNCTION	RUN				
		1				2
50P22 CABLE	DATA/VOICE	1				
6P22 CABLE	DATA/VOICE					1
24SMFO CABLE	VIDEO DISTRIBUTION			1		
2SMFO B/O CABLE	SHORT HAUL VIDEO					
~~48~~ 72 SMFO CABLE	MULTILPLEXED DATA/VIDEO		1			
	INNERDUCT		32mm	32mm		
	CONDUIT SIZE	102 mm			102 mm	51 mm

COMMUNICATIONS SYSTEM ROUTING

SCALE: 1:1000

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

E-6

CALCULATED/DESIGNED BY	MM	DATE 6/96	REVISED BY
CHECKED BY	MMS	6/96	DATE REVISED

PROJECT ENGINEER: PAT SULLI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => 23-SEP-1996 09:31

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => larryk

CU 07396

EA 129921

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	134	0.0/21.8	94	209

Monica R. Suter 6/20/96
REGISTERED CIVIL ENGINEER

4-28-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MONICA SUTER No. C048591 Exp. 6-30-00 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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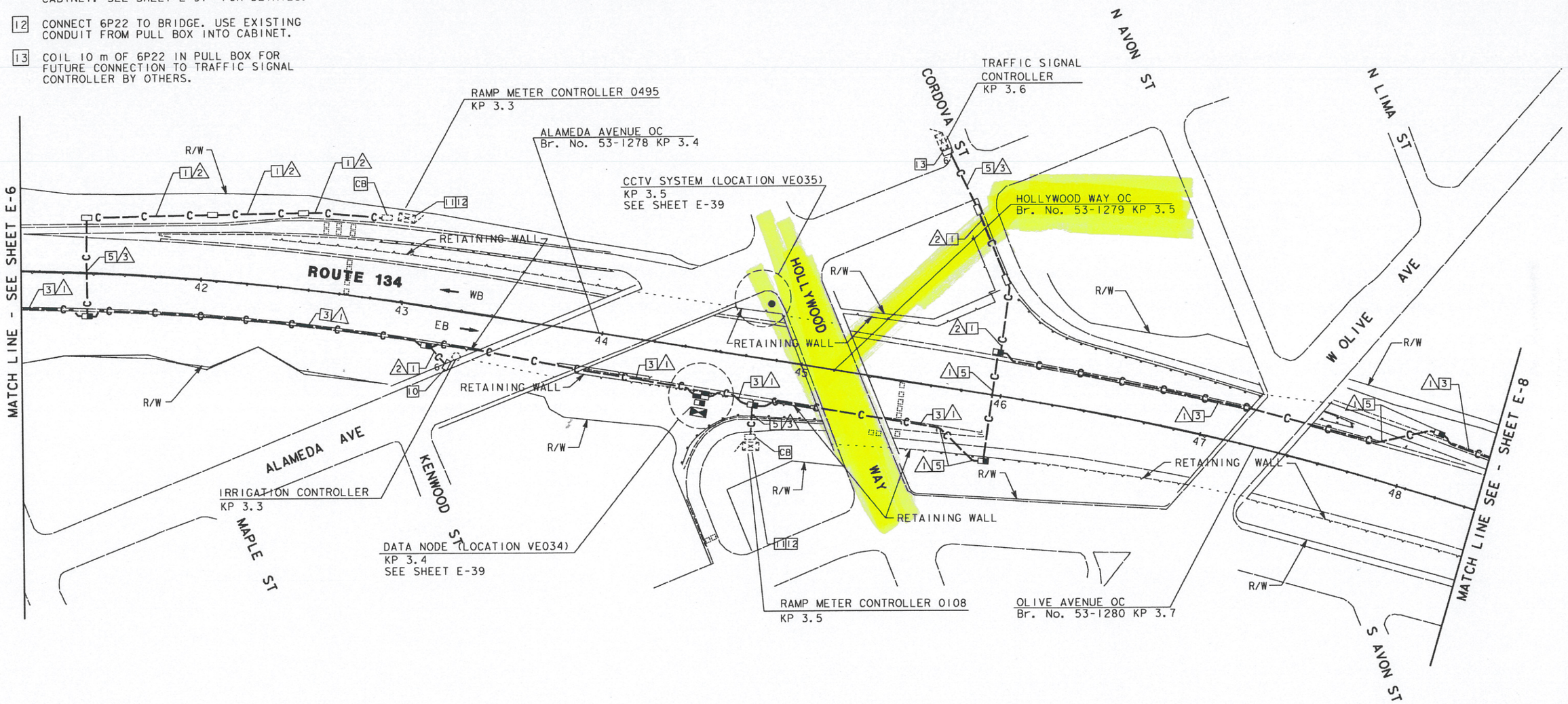
NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
3. TRENCH AND INSTALL CONDUIT IN ASPHALT.
5. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
10. COIL 10 m OF 6P22 IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER BY OTHERS.
11. INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN EXISTING CABINET. SEE SHEET E-91 FOR DETAILS.
12. CONNECT 6P22 TO BRIDGE. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
13. COIL 10 m OF 6P22 IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL CONTROLLER BY OTHERS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1				2	3
50P22 CABLE	DATA/VOICE	1					
6P22 CABLE	DATA/VOICE					1	1
24SMFO CABLE	VIDEO DISTRIBUTION			1			
48SMFO CABLE	MULTIPLEXED DATA/VIDEO		1				
	SIZE 32 INNERDUCT		1	1			
	CONDUIT SIZE	103			103	53	78



COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-7

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

DATE	REVISED BY	DATE	REVISED BY
6/96	MMS	6/96	MM

CALCULATED/DESIGNED BY — CHECKED BY

PROJECT ENGINEER: PAT SULLIV.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$$SYTIME$$$$$$$

FOR REDUCED PLANS ORIGINAL 0 20 40 60 80

USERNAME => $$$$$$USER$$$$$$

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	134	0.0/21.8	95	209

Monica N. Suter 6/20/96
REGISTERED CIVIL ENGINEER

4-28-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MONICA SUTER No. C048591 Exp. 6-30-00 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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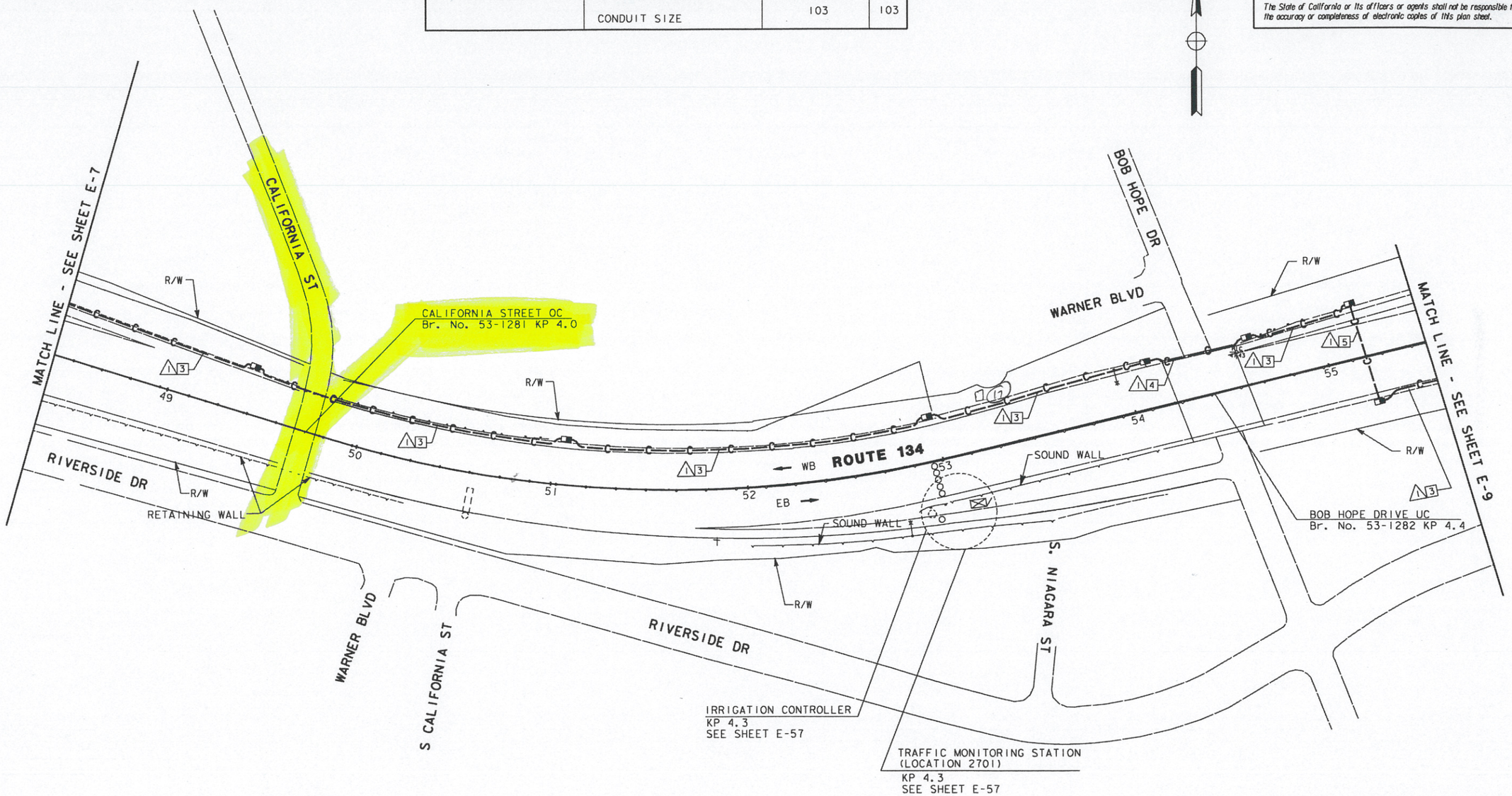
Caltrans Metric

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
3. TRENCH AND INSTALL CONDUIT IN ASPHALT.
4. ATTACH CONDUIT TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
5. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1			
50P22 CABLE	DATA/VOICE	1			
24SMFO CABLE	VIDEO DISTRIBUTION			1	
48SMFO CABLE	MULTIPLEXED DATA/VIDEO		1		
	SIZE 32 INNERDUCT		1	1	
	CONDUIT SIZE	103			103



COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

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

E-8

CALCULATED/DESIGNED BY	MM	DATE 6/96	REVISED BY
CHECKED BY	MMS	6/96	DATE REVISED

PROJECT ENGINEER: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$$SYTIME$$$$$$$

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07396 EA 129921

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	134	0.0/21.8	101	209

Monica M. Suter 6/20/96
REGISTERED CIVIL ENGINEER

4-28-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MONICA SUTER No. C048591 Exp. 6-30-00 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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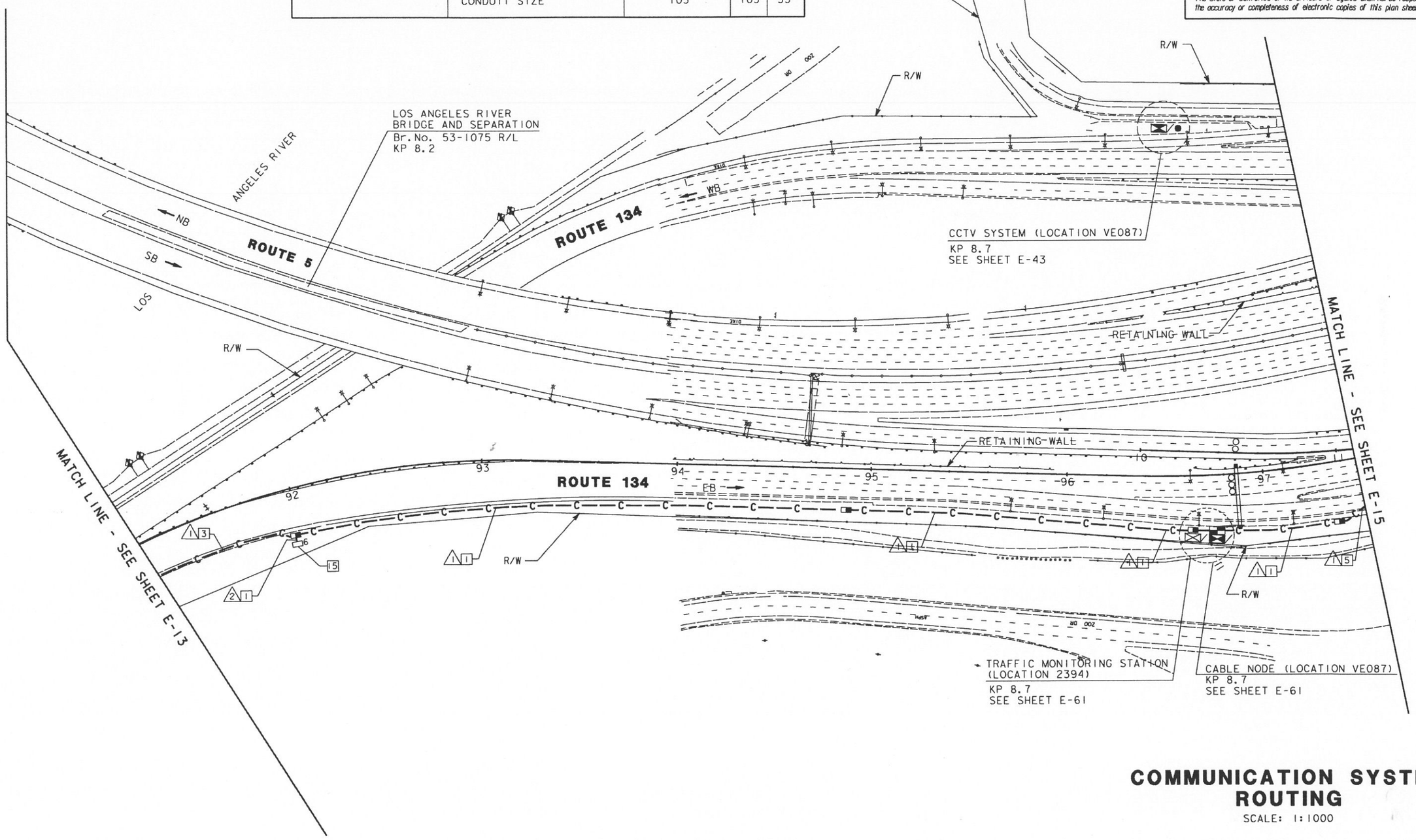
Caltrans Metric

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
3. TRENCH AND INSTALL CONDUIT IN ASPHALT.
5. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
15. COIL 20 m OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO CENSUS STATION CONTROLLER BY OTHERS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1				RUN 2
50P22 CABLE	DATA/VOICE	1				
6P22 CABLE	DATA/VOICE					1
24SMFO CABLE	VIDEO DISTRIBUTION			1		
48SMFO CABLE	MUXTILEXED DATA/VIDEO		1			
	SIZE 32 INNERDUCT		1	1		
	CONDUIT SIZE	103			103	53



COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

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

E-14

CALCULATED/DESIGNED BY	MM	DATE 6/96	REVISED BY
CHECKED BY	MMS	6/96	DATE REVISED

PROJECT ENGINEER
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	134	0.0/21.8	102	209

Monica M. Suter 6/20/96
REGISTERED CIVIL ENGINEER

4-28-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MONICA SUTER No. C048591 Exp. 6-30-00 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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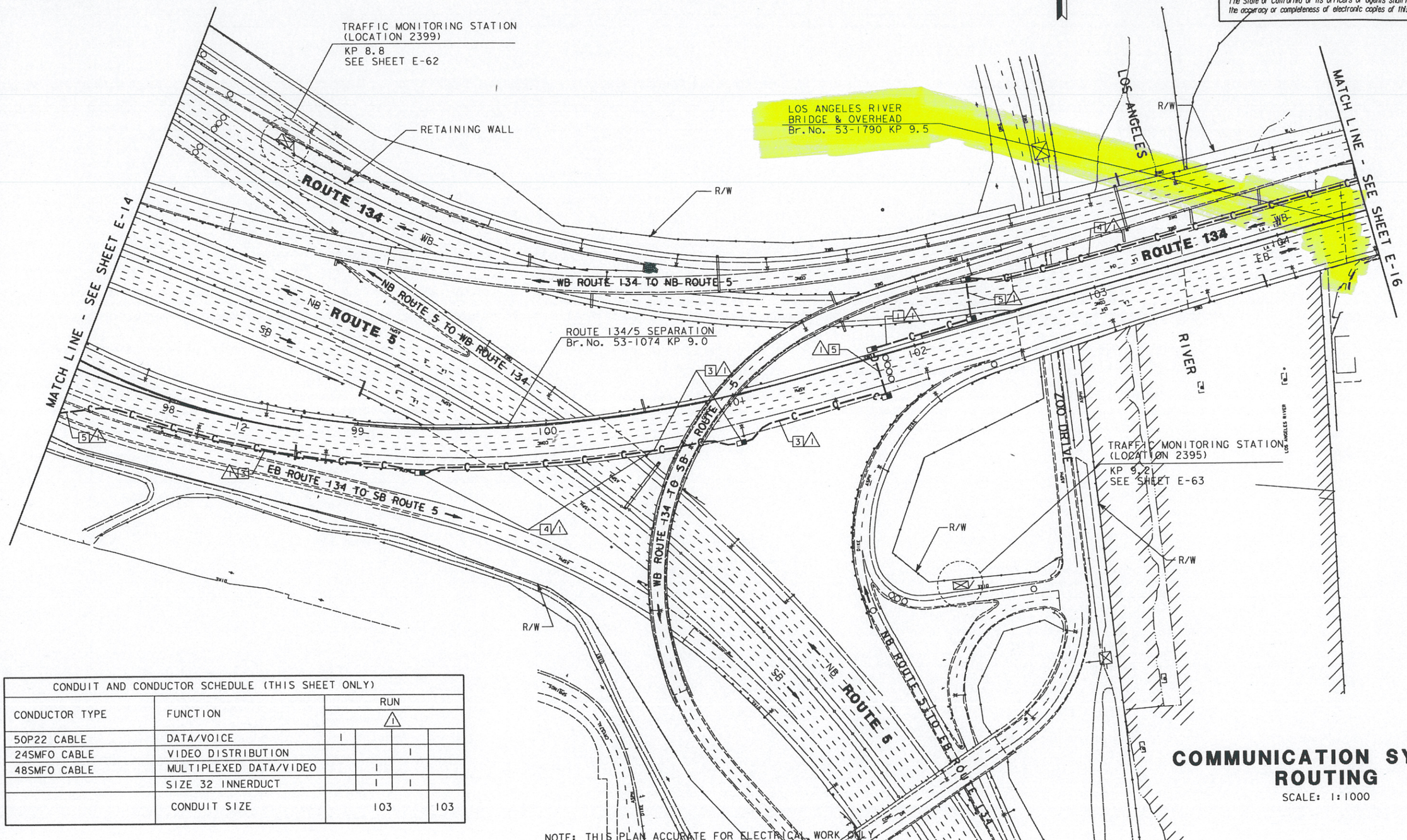
Caltrans Metric

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
3. TRENCH AND INSTALL CONDUIT IN ASPHALT.
4. ATTACH CONDUIT TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
5. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUCTOR TYPE	FUNCTION	RUN 1			
50P22 CABLE	DATA/VOICE	1			
24SMFO CABLE	VIDEO DISTRIBUTION			1	
48SMFO CABLE	MULTIPLEXED DATA/VIDEO		1		
	SIZE 32 INNERDUCT		1	1	
	CONDUIT SIZE	103			103

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

COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-15

REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY	MM	DATE 6/96
CHECKED BY	MMS	6/96

PROJECT ENGINEER PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$$$SYTIME$$$$$$$

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	134	0.0/21.8	119	209

Caltrans Metric

Monica M. Suter 6/20/96
REGISTERED CIVIL ENGINEER

4-28-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MONICA SUTER No. C048591 Exp. 6-30-00 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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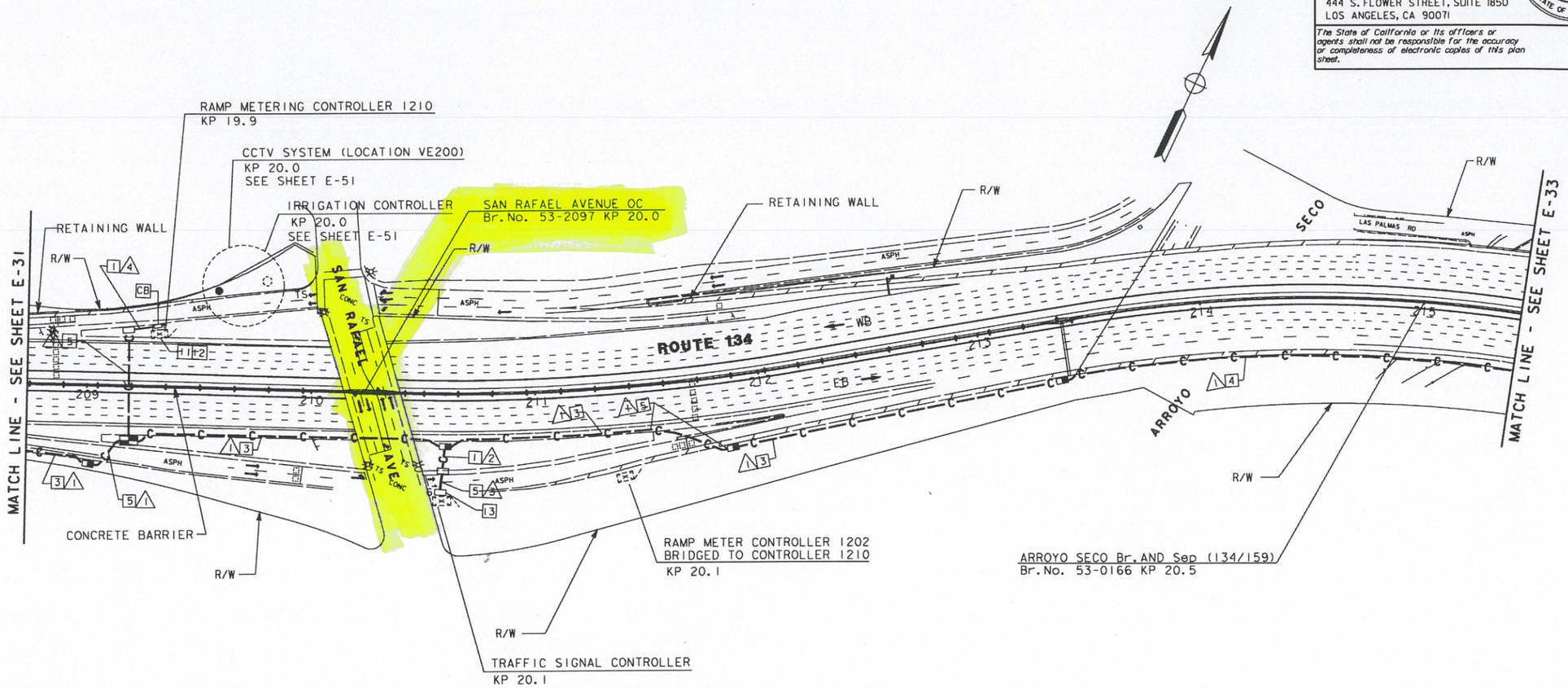

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN CONCRETE.
3. TRENCH AND INSTALL CONDUIT IN ASPHALT.
4. ATTACH CONDUIT TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
5. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
11. INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN EXISTING CABINET. SEE SHEET E-91 FOR DETAILS.
12. CONNECT 6P22 TO BRIDGE. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
13. COIL 10 m OF 6P22 IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL CONTROLLER BY OTHERS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1				2	3	4	
50P22 CABLE	DATA/VOICE	1							
6P22 CABLE	DATA/VOICE					1	1		3
24SMFO CABLE	VIDEO DISTRIBUTION			1					
48SMFO CABLE	MULTIPLEXED DATA/VIDEO		1						
2SMFO B/O CABLE	SHORT HAUL VIDEO							1	
	SIZE 32 INNERDUCT		1	1				1	
	CONDUIT SIZE	103			103	53	78	103	

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

COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-32

DATE	REVISED BY	DATE	REVISED

CALCULATED/DESIGNED BY MM 6/96
CHECKED BY MMS 6/96

PROJECT ENGINEER PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$$SYTIME$$$$$$$

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07396 EA 129921

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	134	0.0/21.8	120	209

Monica M. Suter 6/20/96
REGISTERED CIVIL ENGINEER

4-28-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MONICA SUTER No. C048591 Exp. 6-30-00 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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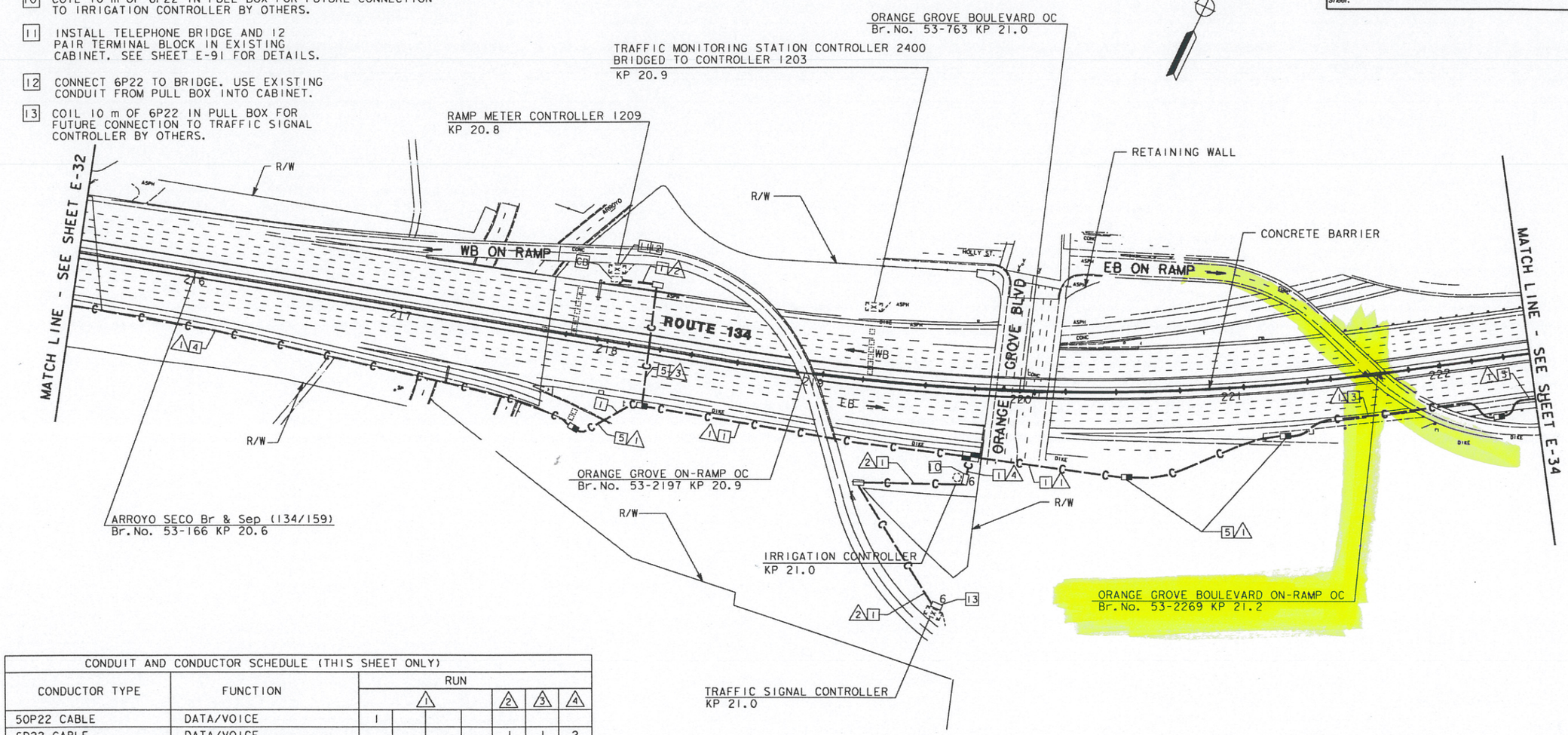
3. TRENCH AND INSTALL CONDUIT IN ASPHALT.
4. ATTACH CONDUIT TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
5. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
10. COIL 10 m OF 6P22 IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER BY OTHERS.
11. INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN EXISTING CABINET. SEE SHEET E-91 FOR DETAILS.
12. CONNECT 6P22 TO BRIDGE. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
13. COIL 10 m OF 6P22 IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL CONTROLLER BY OTHERS.



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)								
CONDUCTOR TYPE	FUNCTION	RUN						
		1				2	3	4
50P22 CABLE	DATA/VOICE	1						
6P22 CABLE	DATA/VOICE					1	1	2
24SMFO CABLE	VIDEO DISTRIBUTION			1				
48SMFO CABLE	MULTIPLEXED DATA/VIDEO		1					
	SIZE 32 INNERDUCT		1	1				
	CONDUIT SIZE	103			103	53	78	53

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

COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-33

DATE	REVISED BY	DATE	REVISED BY
6/96	MM	6/96	MMS

CALCULATED/DESIGNED BY MM
CHECKED BY MMS

PROJECT ENGINEER PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$$SYTIME$$$$$$$

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07396 EA 129921

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	134	0.0/21.8	121	209

Monica M. Suter 6/20/96
REGISTERED CIVIL ENGINEER

4-28-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MONICA SUTER
No. C048591
Exp. 6-30-00
CIVIL
STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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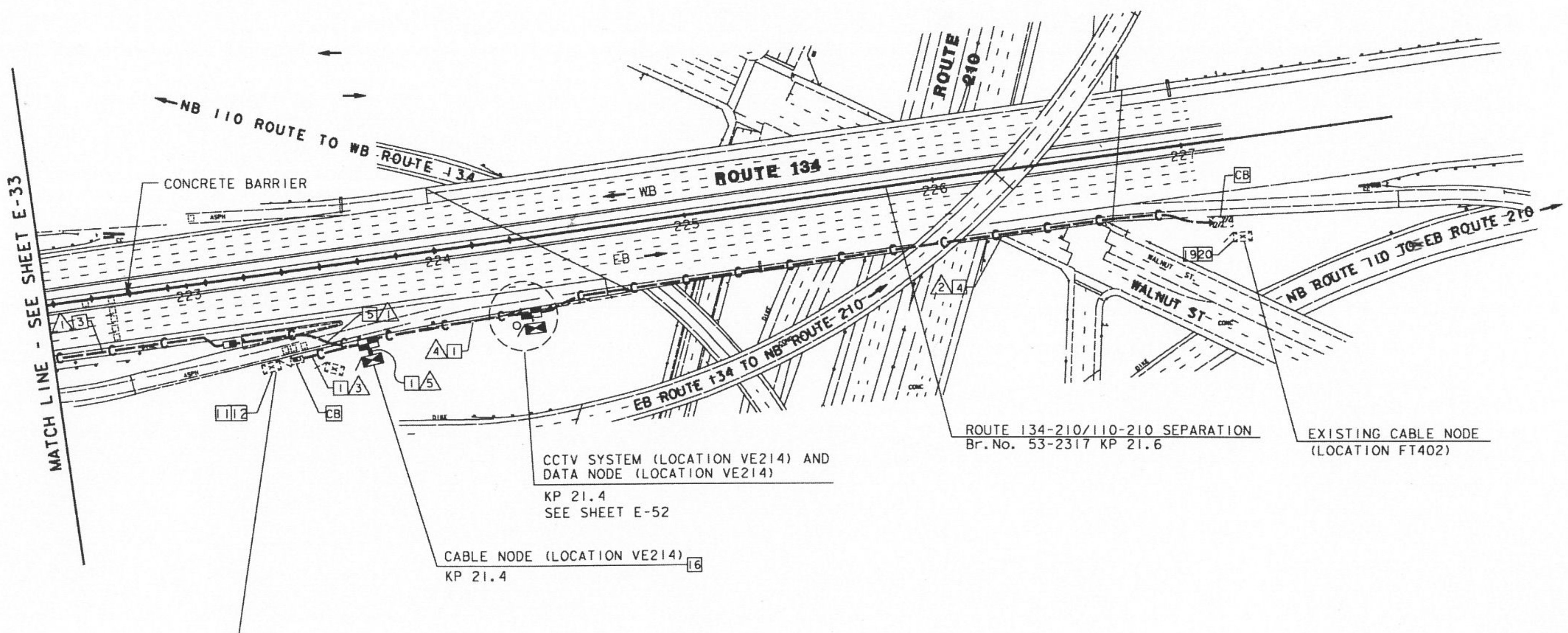
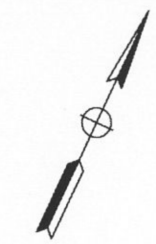
NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
3. TRENCH AND INSTALL CONDUIT IN ASPHALT.
4. ATTACH CONDUIT TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
5. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
11. INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN EXISTING CABINET. SEE SHEET E-97 FOR DETAILS.
12. CONNECT 6P22 TO BRIDGE. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
16. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE EQUIPMENT AT CABLE NODE. SEE SHEET E-83 FOR DETAILS.
19. INSTALL NEW FIBER DISTRIBUTION UNIT (FDU) AND NEW 50 PR TERMINAL BLOCK IN EXISTING CABLE NODE.
20. TERMINATE ALL FIBERS ON FDU AND TERMINATE ALL TWISTED PAIR ON TERMINAL BLOCK. USE EXISTING CONDUIT FROM SPLICE VAULT INTO CABINET.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1				RUN 2				RUN 3	RUN 4					RUN 5			
50P22 CABLE	DATA/VOICE	1				1								1			2		
6P22 CABLE	VOICE/DATA									1									
24SMFO CABLE	VIDEO DISTRIBUTION			1									1						
48SMFO CABLE	MULTIPLEXED DATA/VIDEO		1					1				1						2	
12SMFO CABLE	134/210 INTERCONNECT CABLE						1				1								1
	SIZE 32 INNERDUCT		1	1			1	1			1	1	1					1	1
	CONDUIT SIZE	103			103	103			103	53	103				103	103	103		





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

COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION				
PROJECT ENGINEER	CALCULATED/ DESIGNED BY	MM	DATE 6/96	REVISED BY
PAT SULLIVAN	CHECKED BY	MMS	6/96	DATE REVISED

Caltrans

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07396 | EA 129921

LAST REVISION 00-00-00 | TIME PLOTTED => $$$$$$SYTIME$$$$$$

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	40.0/61.8	1	179

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN LOS ANGELES COUNTY IN PASADENA, ARCADIA, MONROVIA, DUARTE, AND IRWINDALE FROM ROUTE 134 TO ROUTE 605

To be supplemented by Standard Plans dated July, 1995

INDEX OF SHEETS

Sheet Number	
1	Title and Location Map
2-3	Standard Plans List
4	Key Map and Line Index
5-21	Layouts
22-31	Contruction Details
32-60	Utility Plans
61-67	Traffic Handling Plans
68	Construction Area Signs
69-70	Summary of Quantities
71	Sign Plans, Details and Quantities
72-73	Retaining Wall
74-172	Electrical Plans
173-179	Revised Standard Plans

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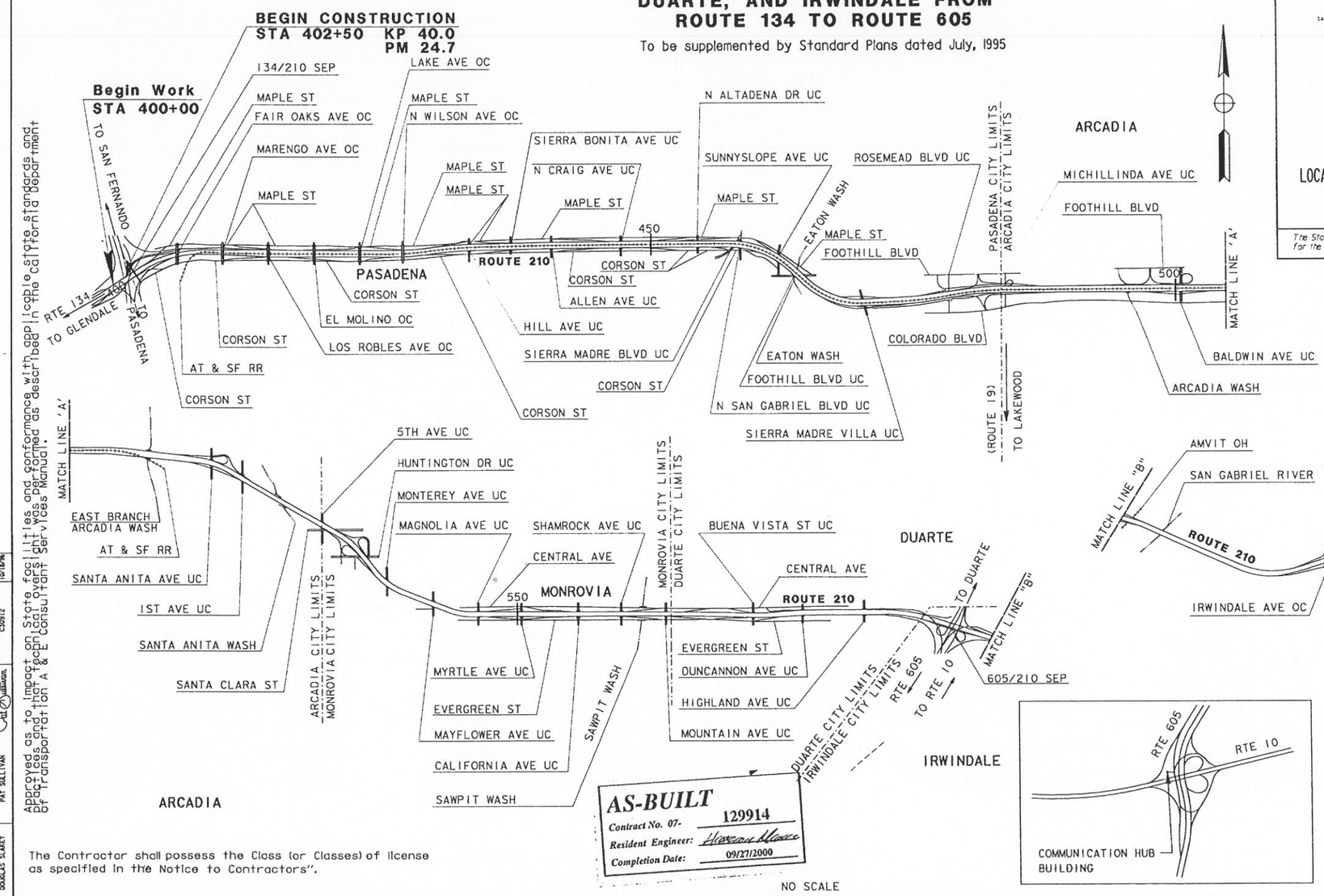

Approved as to impact on State facilities and conformance with applicable state standards and of Transportation A & E Consultant Services Manual as described in the California Department

PROJECT ENGINEER	DESIGN OVERSIGHT APPROVAL	REGISTRATION NO.	DATE
DOUGLAS SLAKEY	PAT SULLIVAN	C30912	01/15/96

AS-BUILT
Contract No. 07- 129914
Resident Engineer: Hossein Moore
Completion Date: 09/27/2000

The Contractor shall possess the Class (or Classes) of license as specified in the Notice to Contractors".

Douglas Slakey
Registered Civil Engineer

REGISTERED PROFESSIONAL ENGINEER DOUGLAS SLAKEY No. 30879 Exp. 3/31/00 CIVIL STATE OF CALIFORNIA

March 3, 1997
Plans Approval Date

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

Contract No. 07-129914

LAST REVISION 00-00-00 | DATE PLOTTED => 13-Mar-1997 | TIME PLOTTED => 06:30

FILE NAME: 7N20SOMSA 10COVER NEW.DGN DATE: 4/4/96 1:40 AM
FORM DC-OE-93-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => trpauld
DGN FILE => [ESC-OE]712991a01.psf

CU 07396 | EA 07-129914

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	210	40.0 / 61.8	74	179

Peter Everett 5/24/96
REGISTERED CIVIL ENGINEER

3-3-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER R. EVERETT No. C53217 EXP. 06/30/96 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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Caltrans Metric

GENERAL NOTES:

1- ALL IRRIGATION CONTROLLERS ARE EXISTING UNLESS OTHERWISE NOTED ON THE PLANS.

2- PULL BOXES SHALL NOT BE USED TO CHANGE THE ALIGNMENT OF CONDUIT.

3- ALL PULL BOXES AND SPLICE VAULTS SHALL BE INSTALLED IN THE UNPAVED AREA IMMEDIATELY ADJACENT TO THE PAVED SHOULDER OR BEHIND MBGR. CONDUIT SHALL BE DIRECTED FROM THE SHOULDER TO THE BOXES WITH 22 ½ DEGREE BENDS.

4- ALL NEW SERVICE EQUIPMENT ENCLOSURES SHALL ALSO HAVE:
(1) 1P, 20 A BREAKER (SPARE)
(1) 1P, 30 A BREAKER (SPARE)
(1) 2P, (SPACE FOR FUTURE)

5. SIZE 103 CONDUITS TO BE INSTALLED IN PAVEMENT SHALL MAINTAIN 100 mm MINIMUM DISTANCE FROM EDGE OF TRAVELED WAY UNLESS OTHERWISE NOTED.

6. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE IN WRITING TO THE ENGINEER AND ALL CONCERNED AGENCIES.

7. SERVICE EQUIPMENT ENCLOSURE SHALL BE LOCATED 3 m MINIMUM FROM THE POWER POLE OR VAULT.

8. ELECTRICAL SERVICE INSTALLATION SHALL MEET THE REQUIREMENTS OF EITHER SOUTHERN CALIFORNIA EDISON COMPANY (SCE) OR LOS ANGELES DEPARTMENT OF WATER AND POWER (DWP).

9. CONDUCTORS FROM POWER POLE (OR VAULT) TO SERVICE ENCLOSURE WILL BE INSTALLED BY UTILITY COMPANY.

10. TRENCH FOR CONDUIT INSTALLATION BETWEEN POWER POLE (OR VAULT) AND SERVICE ENCLOSURE SHALL BE LEFT OPEN FOR INSPECTION AND APPROVAL BY SCE OR DWP INSPECTOR BEFORE IT IS BACKFILLED.

11. STATIONS GIVEN ARE APPROXIMATE, EXACT EQUIPMENT AND POLE LOCATIONS TO BE DETERMINED BY ENGINEER.

ABBREVIATIONS:

2SMFO B/O	-	2 SINGLEMODE FIBER OPTIC BREAKOUT CABLE
24SMFO	-	24 SINGLEMODE FIBER OPTIC CABLE
6P22	-	6 TWISTED PAIR 22 CABLE
50P22	-	50 TWISTED PAIR 22 CABLE
AT & SF	-	ATCHISON TOPEKA AND SOUTHERN PACIFIC
AVC	-	AUTOMATIC VEHICLE CLASSIFICATION STATION
B/O	-	BREAKOUT
CCR	-	CAMERA CONTROL RECEIVER
CIA	-	CONTROLLER INTERFACE ASSEMBLY
COMM	-	COMMUNICATION
DACCS	-	DIGITAL ACCESS AND CROSS CONNECTION SYSTEM
DEMARC	-	DEMARCATION
DEMUX	-	DEMULTIPLEX
(E)	-	EXISTING
FDF	-	FIBER DISTRIBUTION FRAME
FDU	-	FIBER DISTRIBUTION UNIT
F/O, FO	-	FIBER OPTIC
FT	-	FOOTHILL FREEWAY
HAR	-	HIGHWAY ADVISORY RADIO
JKFD	-	JACKFIELD
LB	-	L-SHAPED CONDUIT OUTLET BODY
MUX	-	MULTIPLEX
OW	-	ORDER WIRE (MULTIPLE VOICE CIRCUIT)
PAC BELL	-	PACIFIC BELL TELEPHONE COMPANY
PCMS	-	PASADENA CITY MUNICIPAL SERVICES
PDA	-	POWER DISTRIBUTION ASSEMBLY
P	-	PAIR
RCVR	-	RECEIVER
RMS	-	RAMP METERING SYSTEM
RX	-	RECEIVE
SCE	-	SOUTHERN CALIFORNIA EDISON
SCGAS	-	SOUTHERN CALIFORNIA GAS COMPANY
SCWC	-	SOUTHERN CALIFORNIA WATER COMPANY
SMFO	-	SINGLEMODE FIBER OPTIC
STC	-	SCREENED TRANSMISSION CABLE
TMS	-	TRAFFIC MONITORING STATION
TWP	-	TWISTED WIRE PAIR
TX	-	TRANSMIT
VMX	-	VIDEO MULTIPLEXER
XMTR	-	TRANSMITTER

LEGEND: (NOT LISTED IN CALTRANS STANDARD PLANS)

- EXISTING SPLICE VAULT
- SPLICE VAULT
- EXISTING CABLE NODE
- DATA, VIDEO OR CABLE NODE TYPE 334-TV CABINET
- TYPE 334 - TV CABINET
- COMMUNICATION PULL BOX
- CCTV CAMERA ASSEMBLY AND POLE
- SIGN AND FLASHING BEACON
- EXISTING VAULT (UTILITY)
- —E— E— POWER CONDUIT(S)
- —e— e— EXISTING POWER CONDUIT(S)
- OPTICAL FIBER CABLE
- EXISTING IRRIGATION CONTROLLER

TABLE 1 - CCTV CONTROL CABLE

CONDUCTOR TYPE	FUNCTION	QUANTITY
9P18 CABLE	PAN/TILT CONTROL CABLE	1
12P18 CABLE	LENS CONTROL CABLE	1
RG-6A/U	CAMERA VIDEO INTERFACE CABLE	1

AS-BUILT
Contract No. 07- 129914
Resident Engineer: MANNAA, H.
Completion Date: 09/27/2000

CCTV AND COMMUNICATION SYSTEM
(LEGEND AND NOTES)

NO SCALE

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER	CALCULATED/DESIGNED BY	SH	DATE	REVISED BY	DATE REVISED
Caltrans	PAT SULLIVAN	CHECKED BY	PE	5/96		

LAST REVISION 00-00-00 TIME PLOTTED => 13-Mar-1997

FILE NAME: T:\OSOMGA\DEDLGN DATE: 05JUN96 0940 AK

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => trphlis
DGN FILE => [ESC-OE]712991U01.dgn

CU 7396 EA 129911

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	210	R18.8/R24.9	43	95

REGISTERED ELECTRICAL ENGINEER — DATE 5/13/15

PLANS APPROVAL DATE

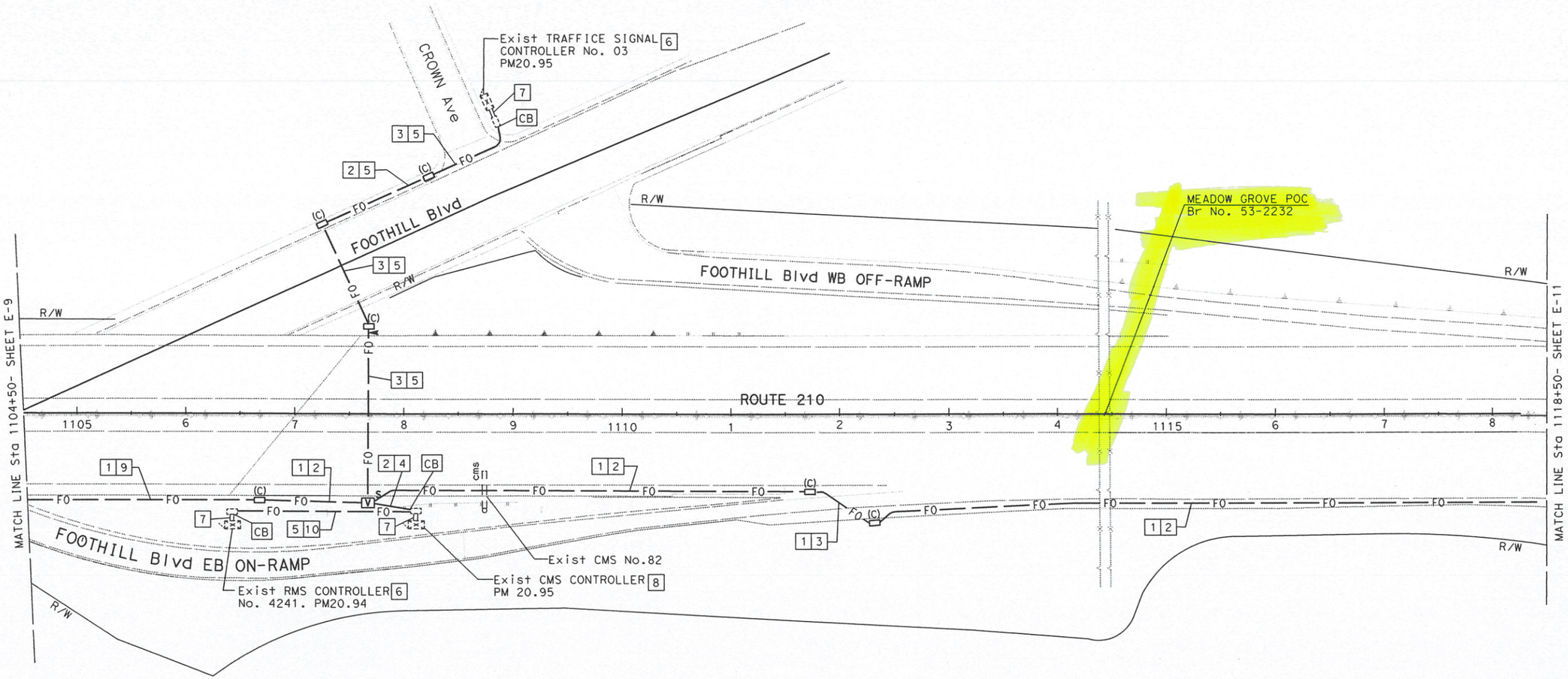
REGISTERED PROFESSIONAL ENGINEER — JACQUELINE C. TAN — No. E015611 — Exp. 12/31/15 — ELECTRICAL — STATE OF CALIFORNIA

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.

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

LEGEND: (THIS SHEET ONLY)

1. INSTALL 2-48SMFO, 1-72SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL 4"C, PT.
2. TRENCH AND INSTALL CONDUITS IN Exist PAVEMENT. SEE SHEET E-35 FOR DETAIL.
3. JACK CONDUITS UNDERNEATH THE ROADWAY. SEE SHEET E-36 FOR DETAIL.
4. INSTALL 3"C, 2-12SMFO, 2 SIZE 1" INNERDUCT.
5. INSTALL 3"C, 1-12SMFO, 1 SIZE 1" INNERDUCT.
6. RS MODEL 170 CONTROLLER UNIT. INSTALL DEPARTMENT-FURNISHED MODEL 2070 CONTROLLER UNIT. INSTALL ETHERNET SWITCH TYPE 1 WITH 2 SFP MODULE INTERNET CARD & FDU AND EQUIPMENT PER DETAILS SHEET E-38.
7. Exist 3"C, PT. ADD 1-12SMFO.
8. INSTALL AN ETHERNET CARD INSIDE THE Exist MODEL 170 CONTROLLER CABINET.
9. ATTACH TYPE 1 CONDUITS TO THE Exist BRIDGE RAILING. SEE STRUCTURAL PLAN FOR DETAIL.
10. TRENCH AND INSTALL CONDUITS IN SOIL. SEE SHEET E-35 FOR DETAIL.



COMMUNICATION SYSTEM

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE C. TAN
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-JUL-2015
TIME PLOTTED => 09:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	210	R18.8/R24.9	45	95

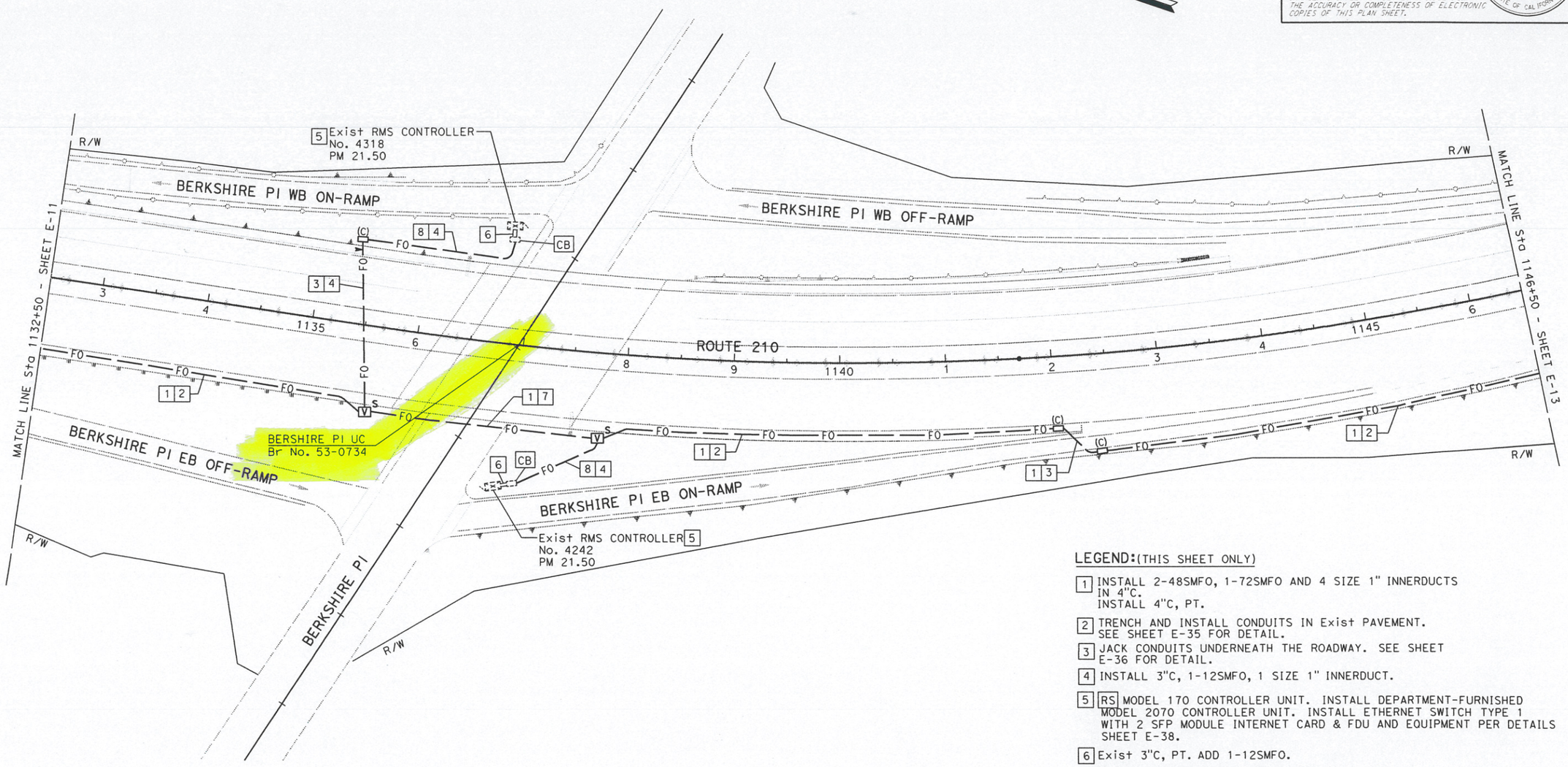
REGISTERED ELECTRICAL ENGINEER — DATE 5/13/15

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JACQUELINE C. TAN — No. E015611 — Exp 12/31/15 — ELECTRICAL — STATE OF CALIFORNIA

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.

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



LEGEND: (THIS SHEET ONLY)

1. INSTALL 2-48SMFO, 1-72SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C.
   INSTALL 4"C, PT.
2. TRENCH AND INSTALL CONDUITS IN Exist PAVEMENT. SEE SHEET E-35 FOR DETAIL.
3. JACK CONDUITS UNDERNEATH THE ROADWAY. SEE SHEET E-36 FOR DETAIL.
4. INSTALL 3"C, 1-12SMFO, 1 SIZE 1" INNERDUCT.
5. RS MODEL 170 CONTROLLER UNIT. INSTALL DEPARTMENT-FURNISHED MODEL 2070 CONTROLLER UNIT. INSTALL ETHERNET SWITCH TYPE 1 WITH 2 SFP MODULE INTERNET CARD & FDU AND EQUIPMENT PER DETAILS SHEET E-38.
6. Exist 3"C, PT. ADD 1-12SMFO.
7. ATTACH TYPE 1 CONDUITS TO THE BRIDGE RAILING. SEE STRUCTURE PLAN FOR DETAIL.
8. TRENCH AND INSTALL CONDUITS IN SOIL. SEE SHEET E-35 FOR DETAIL.

COMMUNICATION SYSTEM

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-12

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE C. TAN
FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

LAST REVISION 00-00-00 | DATE PLOTTED => 03-JUL-2015 | TIME PLOTTED => 09:42

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	210	40.0/61.8	98	179

Peter Everett 5/24/96
REGISTERED CIVIL ENGINEER

3-3-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER R. EVERETT No. C53217 EXP. 06/30/99 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 1850
LOS ANGELES, CA 90071

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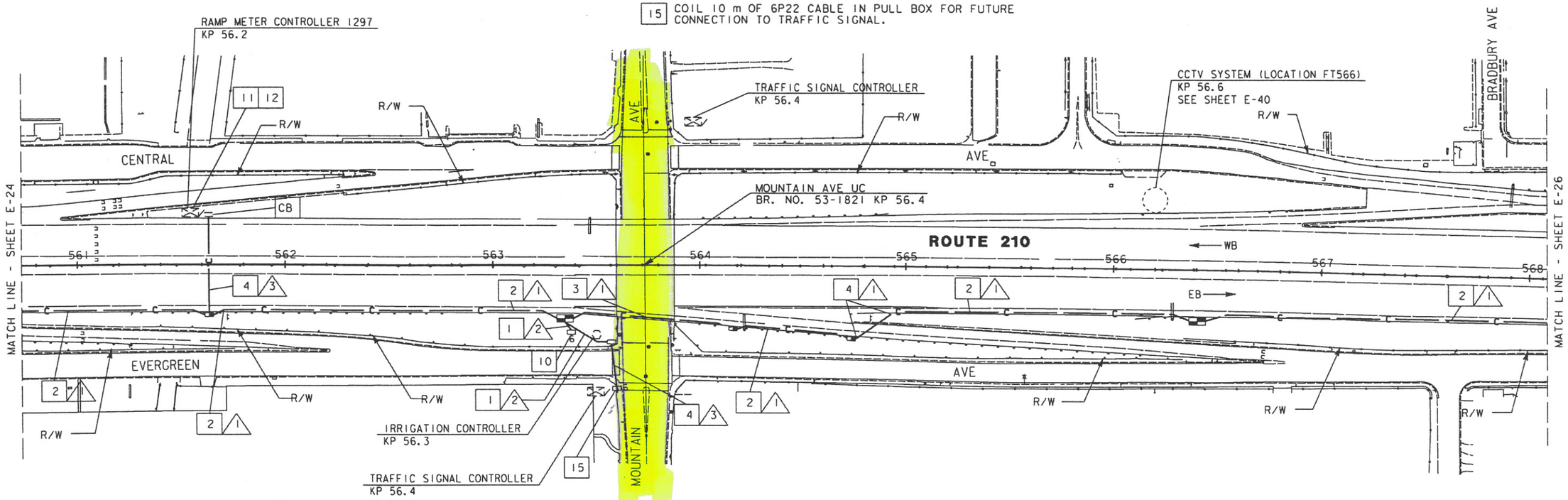
Caltrans Metric

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)							
CONDUCTOR TYPE	FUNCTION	RUN					
		1				2	3
50P22 CABLE	VOICE/DATA	1					
6P22 CABLE	VOICE/DATA					1	1
24SMFO CABLE	VIDEO DISTRIBUTION		1				
24SMFO CABLE	MULTIPLEXED VIDEO AND DATA			1			
	SIZE 32 INNERDUCT		1	1			
	CONDUIT SIZE	103			103	53	78

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. ATTACH CONDUITS TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
4. JACK CONDUITS BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
10. COIL 10 m OF 6P22 CABLE IN PULLBOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER.
11. INSTALL TELEPHONE BRIDGE AND A 12-PAIR TERMINAL BLOCK IN EXISTING CABINET. SEE SHEET E-73 FOR DETAILS.
12. CONNECT 6P22 TO BRIDGE/CONTROLLER. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
15. COIL 10 m OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL.



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

CCTV SYSTEM AND COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-25

CALCULATED/DESIGNED BY	SH	DATE 5/96
CHECKED BY	PE	5/96

REVISED BY | DATE REVISED

PROJECT ENGINEER: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | TIME PLOTTED => $DATE

FILE NAME: TATOS\DWGA\KIE25.DGN DATE: 15MAY96 1542 BB

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DGN FILE => $REQUEST

CU 7396 | EA 129911