INFORMATION HANDOUT

For Contract No. 07-278204
At 07-LA-10, 110, 118, 134, 210, 710-Var

Identified by
Project ID 0700000538

MATERIALS INFORMATION

Fiber Optic As-Built

Sheet #1012A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	42.4/48.3	1012	1346

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5
~~50PCC CABLE~~	~~DATA/PHONE~~	1				
~~6P22 CABLE~~ 12SMFO	DATA/PHONE			1	2	3
60SMFO CABLE	TRUNK	1	2			
48 12SMFO CABLE	SH VIDEO/CCTV CTRL/DATA					
	INNERDUCT	1¼"	1¼"			
	CONDUIT SIZE	4"	4"	2"	2"	2"

NOTES: (THIS SHEET ONLY)

1. INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELLED WAY. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-78 FOR DETAILS.
2. INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER.
3. INSTALL ~~TWISTED PAIR~~ Fiber SPLICE CLOSURE IN COMMUNICATION PULL BOX. SEE SHEETS E-81 TO E-83 FOR DETAILS.
4. JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY.
5. INSTALL FIBERGLASS REINFORCED EPOXY (FRE) CONDUIT(S) IN STRUCTURE. SEE BRIDGE STRUTURE PLAN.
6. COIL 30 FEET OF ~~6P22~~ 12SMFO CABLE IN PULL BOX FOR FUTURE CONNECTION TO RAMP METERING 0764.
7. INSTALL ~~TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN CONTROLLER~~ Fiber CABINET. SEE ~~SHEET E-84 AND~~ SHEET E-86 DETAIL 1. terminate cables.
8. INSTALL 2-4"C, WITH 2-1¼" INNERDUCT IN BRIDGE STRUCTURE. SEE BRIDGE STRUCTURE PLAN.
9. COIL 30 FEET OF ~~6P22~~ 12SMFO CABLE IN PULL BOX FOR FUTURE CONNECTION TO HAR SIGN AND FLASHING BEACON. SPLICE IN/OUT PAIRS TOGETHER USING A ~~TWISTED PAIR~~ Fiber SPLICE CLOSURE.
10. COIL 30 FEET OF ~~6P22~~ 12SMFO CABLE IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A ~~TWISTED PAIR~~ Fiber SPLICE CLOSURE.
11. COIL 30 FEET OF ~~6P22~~ 12SMFO CABLE IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A ~~TWISTED PAIR~~ Fiber SPLICE CLOSURE.

REGISTERED CIVIL ENGINEER — 03/21/00 DATE

FONG-PING LEE No. C040869 Exp. 3/31/03 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

6-12-00
PLANS APPROVAL DATE

Los Angeles County
Metropolitan Transportation Authority
One Gateway Plaza
Los Angeles, CA 90012

FPL and Associates, Inc.
10 Corporate Park, Suite 310
Irvine, California 92606

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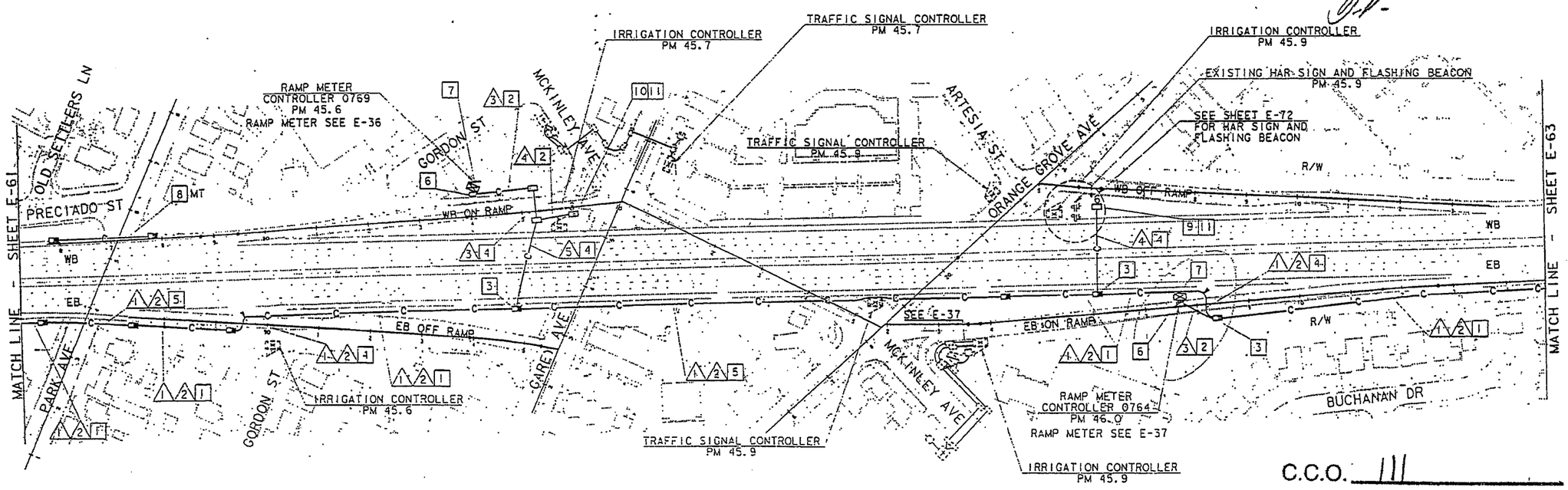
REGISTERED PROFESSIONAL ENGINEER — DAVID PADILLA — E 16233 EXP. 12/31/04 — ELECTRICAL — STATE OF CALIFORNIA



C.C.O. 111

SHEET 12 OF 45

CONTRACT NO. 07-1224U4

COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-62

NOTE:
FOR LEGEND AND GENERAL NOTES SEE SHEET E-54.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

REVISED BY	DATE REVISED
KW	3/00
TT	3/00

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
REFUGIO DOMINGUEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2

USERNAME => tfding
DGN. FILE => 07-1224u1=(01)2_08073916

CU 07279 EA 1224U1

LAST REVISION 00-00-00 DATE PLOTTED => 6-Apr-2000 TIME PLOTTED => 07:41

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

PROJECT NOTES: (THIS SHEET ONLY)

1 RC CONDUCTORS AND INNERDUCTS. INSTALL 2-48SMFO, 72SMFO AND 4 SIZE 25 INNERDUCTS.
2 2-48SMFO AND 72SMFO IN 103C WITH 4 SIZE 25 INNERDUCTS. 103C, MT.
5 RC CONDUCTORS. INSTALL 12SMFO.
10 COIL 15 m OF 12SMFO IN PULL BOX.
28 RC TP SPLICE CLOSURE. INSTALL FO SPLICE CLOSURE.
32 TRENCH AND INSTALL CONDUIT(S) IN PAVED SHOULDER.

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.5/50.4	1131	1317

Conway Chu 1/14/08
REGISTERED ELECTRICAL ENGINEER

CONWAY CHU No. E 15305 Exp. 03-31-09 ELECTRICAL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

5-5-08
PLANS APPROVAL DATE

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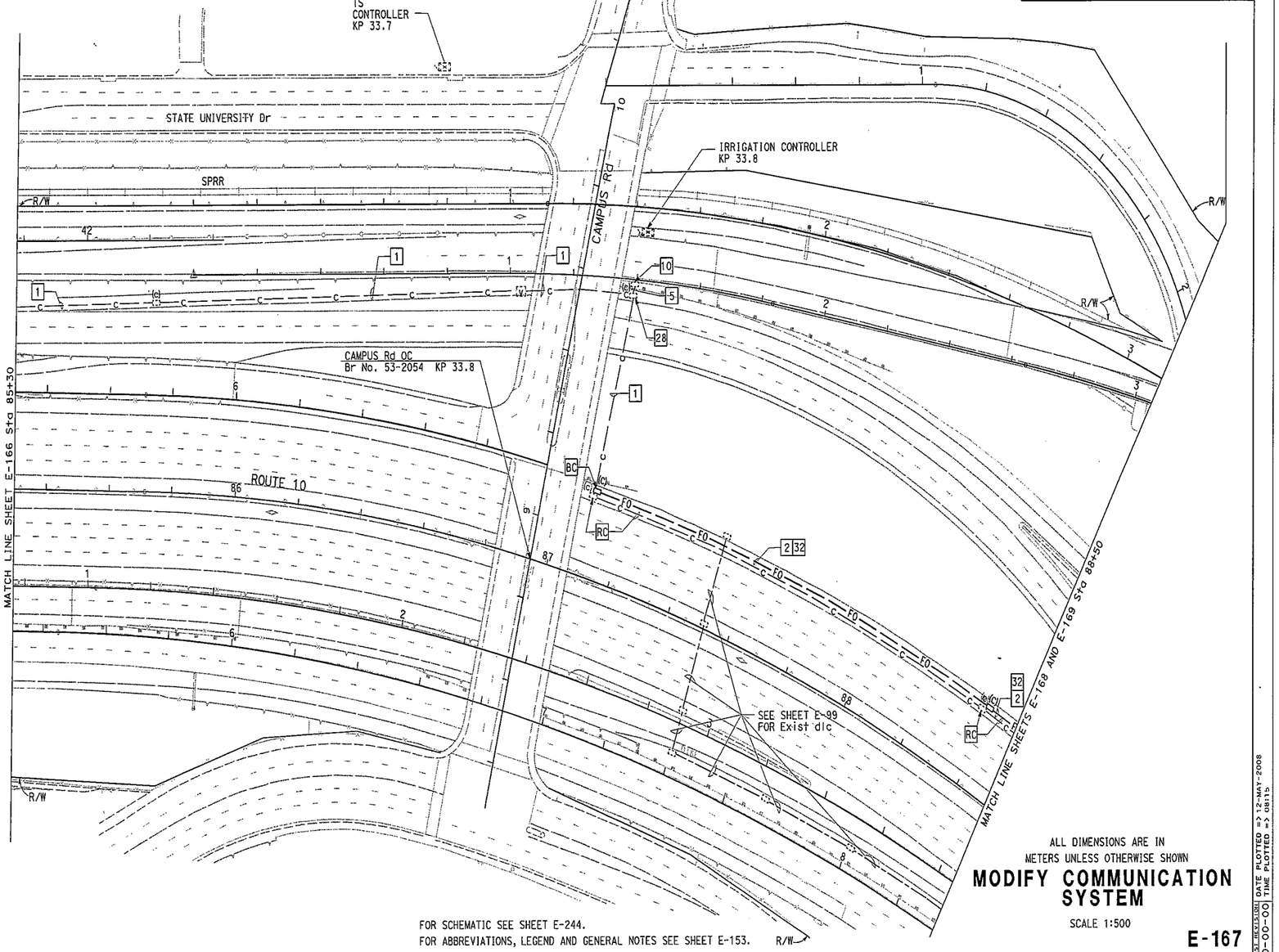

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

E-167

FOR SCHEMATIC SEE SHEET E-244.
FOR ABBREVIATIONS, LEGEND AND GENERAL NOTES SEE SHEET E-153.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: CONWAY CHU
CHECKED BY: JACQUELINE C. TAN
REVISED BY | DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 12-MAY-2008
TIME PLOTTED => 08:15

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => trm'kesl
DGN FILE => 71668'ua167.dgn
CU 07388
EA 166811

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	210	R53.7/R75.3	99	213

Conway Chu
REGISTERED ELECTRICAL ENGINEER

5-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CONWAY CHU No. E15305 EXP. 3/31/07 ELECTRICAL — STATE OF CALIFORNIA

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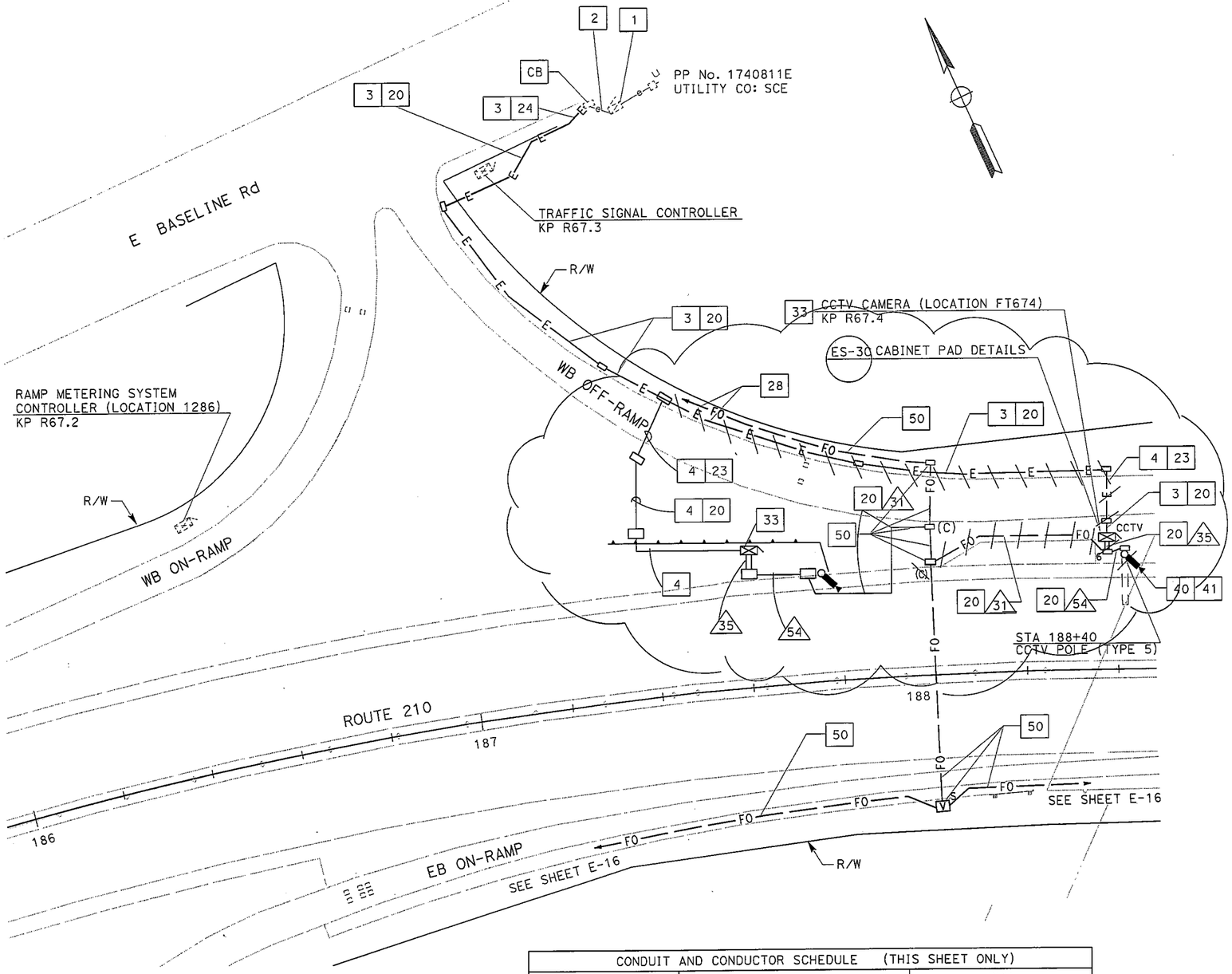
DATE	REVISED BY	DATE REVISED
3/02	CC	8/05
8/05	JT	8/05
	CC	

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT ENGINEER
CONWAY CHU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT



PROJECT NOTES: (THIS SHEET ONLY)

SEE SHEET C-6 FOR CONSTRUCTION DETAIL.

1. ADD:
1-30 A, 120 V, 1P, CB FOR CCTV CAMERA IN EXISTING TYPE III-CF SERVICE EQUIPMENT ENCLOSURE.
2. ADD 2#6, 1#8 BONDING WIRE.
3. INSTALL 53C, 2#6, 1#8 BONDING WIRE.
4. INSTALL 78C, 2#6, 1#8 BONDING WIRE.
20. TRENCH AND INSTALL CONDUIT IN SOIL.
23. JACK CONDUIT BENEATH ROADWAY.
24. TRENCH AND INSTALL CONDUIT IN SIDEWALK.
28. INSTALL CONDUITS IN THE SAME TRENCH.
33. INSTALL MODEL 334-TV CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE CAMERA CONTROL RECEIVER, FOCM, 12-FIBER FDU AND VIDEO TRANSMITTER. SEE SHEET E-63 FOR CABINET EQUIPMENT DETAILS.
40. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT. SEE SHEET E-69 FOR DETAILS.
41. INSTALL CCTV POLE. SEE SHEET E-69 FOR DETAILS.
50. INCLUDED IN COMMUNICATION SYSTEM ROUTING PLANS. SHOWN FOR REFERENCE ONLY.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUCTOR TYPE	FUNCTION	RUN			
		31	35		54
12SMFO CABLE	SHORT HAUL VIDEO	1		1	
TABLE 1, E-1	CCTV WIRING		1		1
CONDUIT SIZE		53	103	103	53

AS-BUILT

Contract No. 07- 129934
Resident Engineer: W. YUE
Completion Date: 02/04/10

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CCTV CAMERA (LOCATION FT674)

SCALE 1:500

E-39

LAST REVISION 00-00-00 | DATE PLOTTED => 21-JUN-2010 | TIME PLOTTED => 09:01

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

USERNAME => s129112
DGN FILE => 712993ua039.dgn

CU 07388 | EA 129931

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	210	R53.7/R75.3	102	213

Conway Chu
REGISTERED ELECTRICAL ENGINEER

5-22-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CONWAY CHU No. E15305 Exp. 3/31/07 ELECTRICAL — STATE OF CALIFORNIA

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To get to the Caltrans web site, go to: http://www.dot.ca.gov

DATE	REVISED BY	DATE REVISED
3/02	CC	9/05
8/05	JT	

CALCULATED/DESIGNED BY: CC
CHECKED BY:

PROJECT ENGINEER: CONWAY CHU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

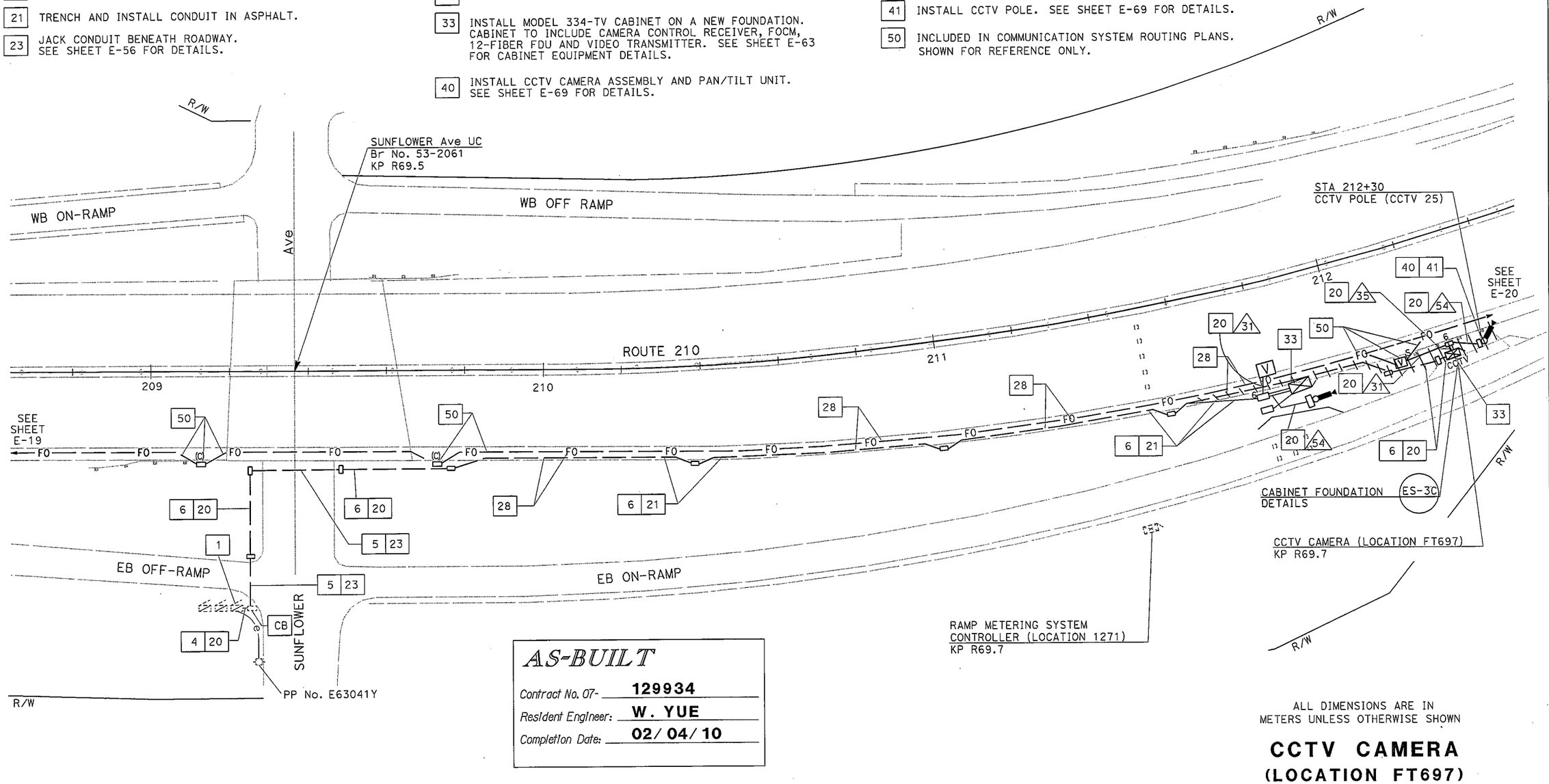
PROJECT NOTES: (THIS SHEET ONLY)

SEE SHEET C-7 FOR CONSTRUCTION DETAIL.

1. ADD:
1-30 A, 120 V, 1P, CB FOR CCTV CAMERA IN EXISTING 120/240 V, 100 A TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE.
ADDRESS: 1213 ½ SUNFLOWER Ave.
4. ADD 2#4, 1#6 BONDING WIRE.
5. INSTALL 78C, 2#4, 1#6 BONIDNG WIRE.
6. INSTALL 53C, 2#4, 1#6 BONDING WIRE.
20. TRENCH AND INSTALL CONDUIT IN SOIL.
21. TRENCH AND INSTALL CONDUIT IN ASPHALT.
23. JACK CONDUIT BENEATH ROADWAY.
SEE SHEET E-56 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUCTOR TYPE	FUNCTION	RUN			
		31	35		54
12SMFO CABLE	SHORT HAUL VIDEO	1		1	
TABLE 1, E-1	CCTV WIRING		1		1
CONDUIT SIZE		53	103	103	53

28. INSTALL CONDUIT IN THE SAME TRENCH.
33. INSTALL MODEL 334-TV CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE CAMERA CONTROL RECEIVER, FOCM, 12-FIBER FDU AND VIDEO TRANSMITTER. SEE SHEET E-63 FOR CABINET EQUIPMENT DETAILS.
40. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT. SEE SHEET E-69 FOR DETAILS.
41. INSTALL CCTV POLE. SEE SHEET E-69 FOR DETAILS.
50. INCLUDED IN COMMUNICATION SYSTEM ROUTING PLANS. SHOWN FOR REFERENCE ONLY.



AS-BUILT

Contract No. 07- 129934
Resident Engineer: W. YUE
Completion Date: 02/04/10

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CCTV CAMERA (LOCATION FT697)

SCALE 1:500

E-42

LAST REVISION 00-00-00 | DATE PLOTTED => 21-JUN-2010 | TIME PLOTTED => 09:24

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

USERNAME => s129112
DGN FILE => 712993ua042.dgn

CU 07388 | EA 129931

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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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) IP, 20 A BREAKER (SPARE)
   (1) IP, 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.

AS-BUILT
Contract No. 07- 129924
Resident Engineer: MANNAA, H.
Completion Date: 03/20/2001

ABBREVIATIONS: (NOT LISTED IN CALTRANS STANDARD PLANS)

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

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

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

DATE	REVISED BY	DATE REVISED
6/96	MMS	6/96 DS

CALCULATED/DESIGNED BY
CHECKED BY
PROJECT ENGINEER: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => 07-May-1997 09:04

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

USERNAME => trienard
DGN FILE => [ESC-OE]712992u01.psf

CU 07396

EA 129921

[ESC-OE]712992u01 07-May-1997 0904

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.
10. COIL 10 m OF 6P22 IN PULL BOX FOR FUTURE CONNECTION. TO IRRIGATION 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		
72 ~~48~~SMFO CABLE	MULTIPLEXED DATA/VIDEO		1			
	SIZE 32 INNERDUCT		1	1		
	CONDUIT SIZE	103			103	53

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	134	0.0/21.8	116	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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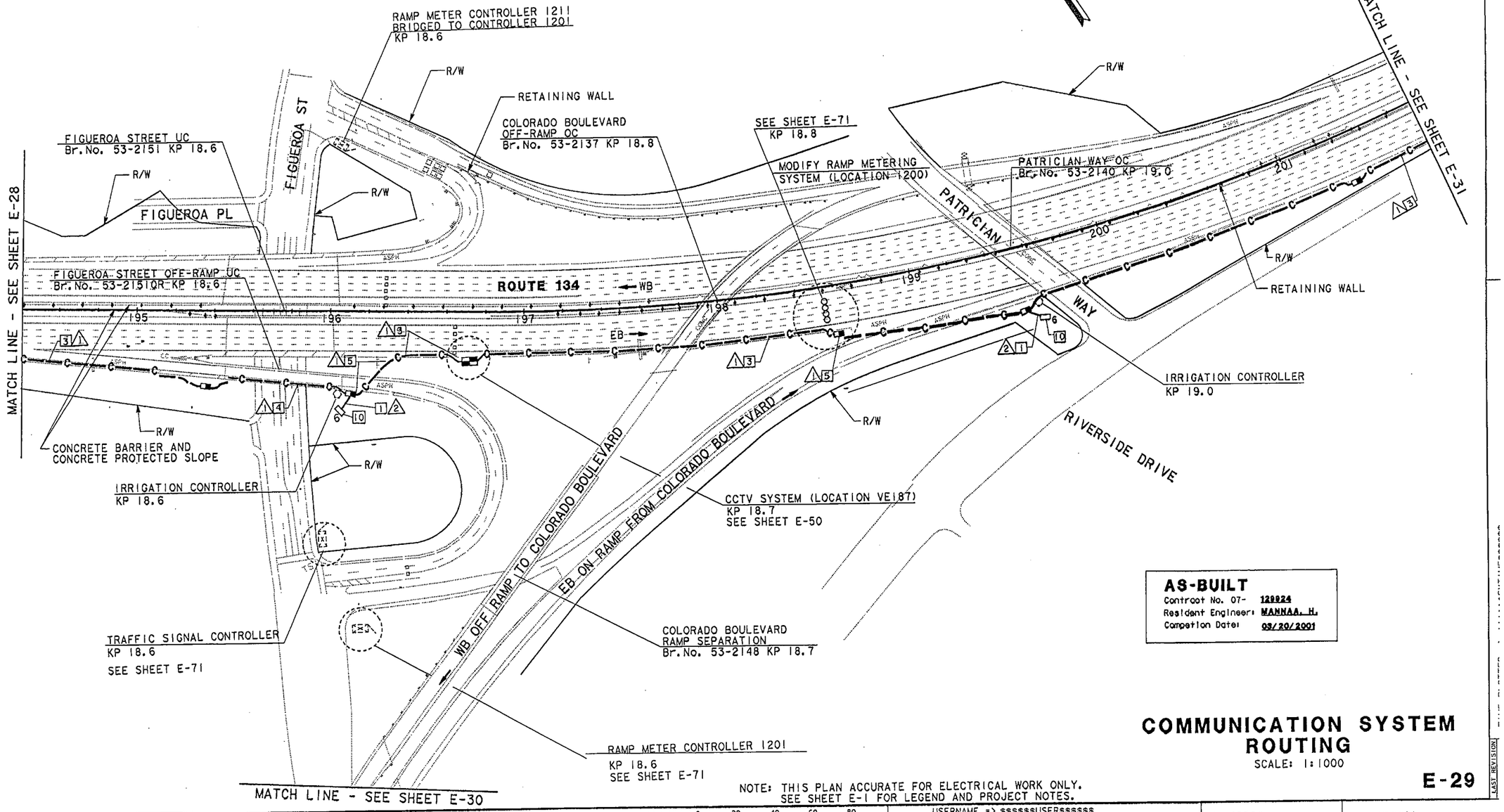
DATE	REVISED BY	DATE REVISED
6/96	MM	6/96 MMS

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT ENGINEER
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



AS-BUILT
Contract No. 07- 129924
Resident Engineer: MANNAA, H.
Competion Date: 03/20/2001

COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-29

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

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

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

CU 07396 EA 129921

LAST REVISION

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.
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.
14. INSTALL CONDUITS IN SAME TRENCH.
15. INSTALL 53C, 6#2.
16. INSTALL 53C, 2#2.
17. INSTALL 78C, 4#2.
18. INCLUDED IN COMMUNICATION SYSTEM ROUTING PLANS.
23. INSTALL TYPE E LOOPS. SEE SHEET E-73 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE

AWG SIZE		RUN No 1	2	3	4	5	6	7	8	9
#14	RAMP SIGNAL									
	METER ON SIGNAL									
	SPARES									
	TOTAL #14									
DLC	QUEUE DETECTOR									
	DEMAND DETECTOR									
	PASSAGE DETECTOR									
	SURVEILLANCE DET									
	COUNT DETECTOR	10	10	10		10	10	5	20	
	COUNT CAR POOL									
	TOTAL DLC	10	10	10		10	10	5	20	
6P22	COMMUNICATION		4	4	1	3	2			5
#2	SERVICE								2	
	TOTAL #2								2	
	CONDUIT SIZE	78	103	78	53	78	78	78	103	53

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	134	0.0/21.8	158	209

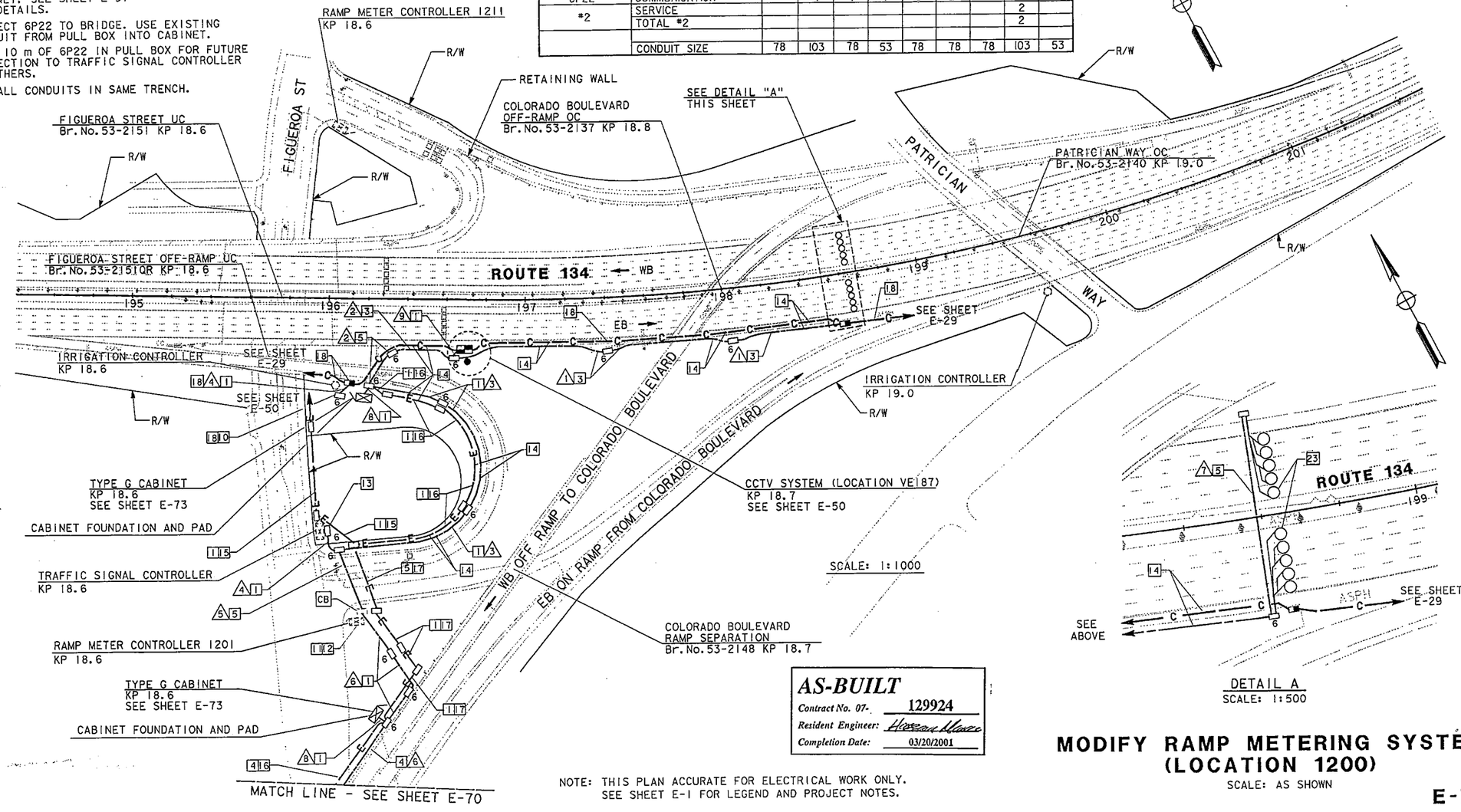
6/20/96
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KEENE MATSUDA — No. E011758 — EXP. 9/30/00 — ELECTRICAL — STATE OF CALIFORNIA

4-28-97
PLANS APPROVAL DATE

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

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.



AS-BUILT
Contract No. 07- 129924
Resident Engineer: Hassan Ware
Completion Date: 03/20/2001

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

MODIFY RAMP METERING SYSTEM (LOCATION 1200)

SCALE: AS SHOWN

E-71

DATE 6/96 | REVISED BY | DATE REVISED
CALCULATED/DESIGNED BY DS | CHECKED BY MMS
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	157	209

Keene Matsuda 6/20/96
REGISTERED ELECTRICAL ENGINEER

4-28-97
PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER KEENE MATSUDA No. E011758 Exp. 09/30/00 ELECTRICAL STATE OF CALIFORNIA

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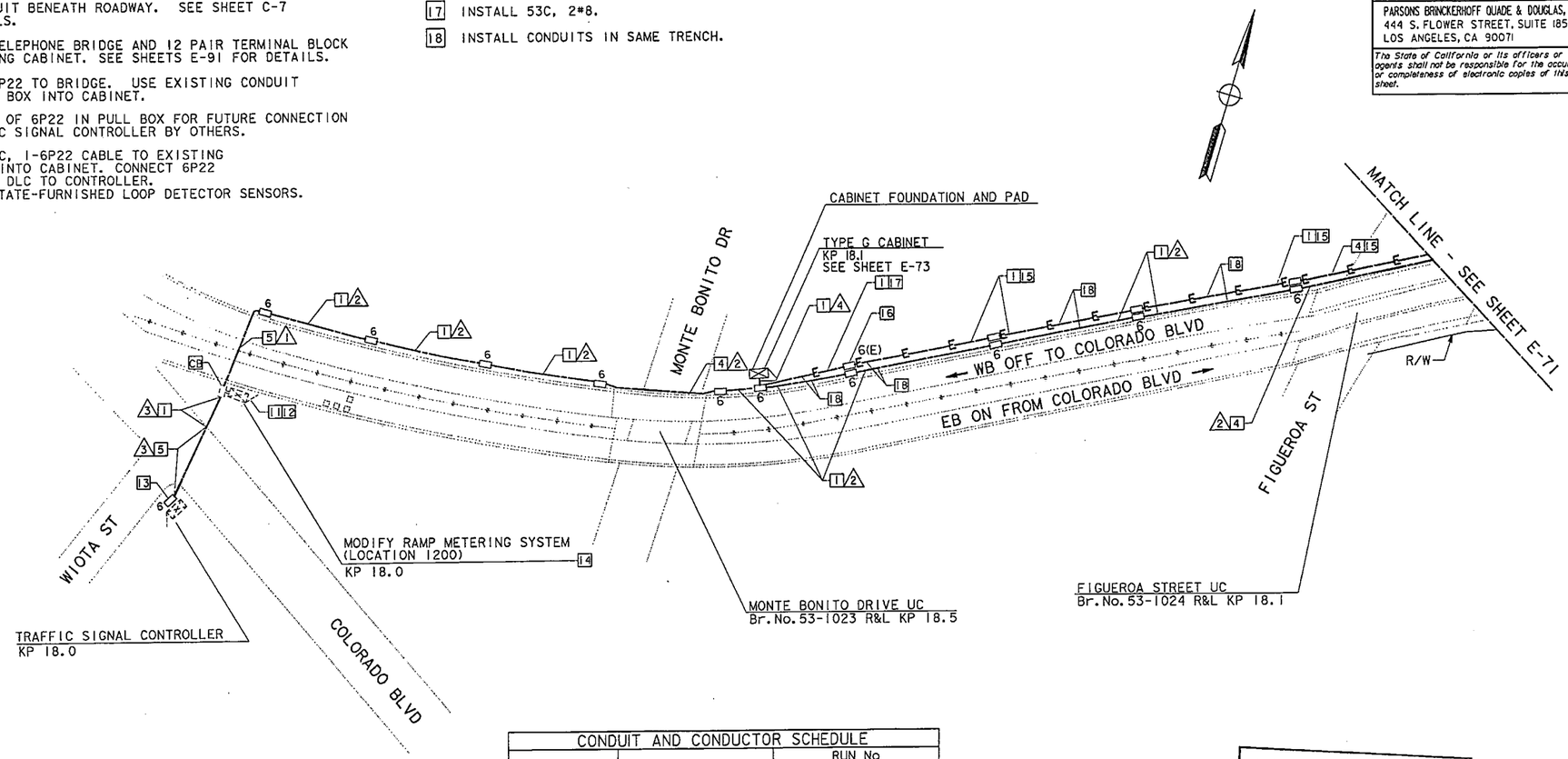
Caltrans Metric

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
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 SHEETS 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.
14. ADD 10 DLC, 1-6P22 CABLE TO EXISTING PULL BOX INTO CABINET. CONNECT 6P22 CABLE AND DLC TO CONTROLLER. INSTALL STATE-FURNISHED LOOP DETECTOR SENSORS.
15. INSTALL 53C, 2#2.
16. INSTALL 120 V, 2 kVA BUCK-BOOST TRANSFORMER WITH 2 V BOOST.
17. INSTALL 53C, 2#8.
18. INSTALL CONDUITS IN SAME TRENCH.



CONDUIT AND CONDUCTOR SCHEDULE					
AWG SIZE		RUN No 1	2	3	4
#14	RAMP SIGNAL				
	METER ON SIGNAL				
	SPARES				
	TOTAL #14				
DLC	QUEUE DETECTOR				
	DEMAND DETECTOR				
	PASSAGE DETECTOR				
	SURVEILLANCE DET.	10	10		20
	COUNT DETECTOR				
	COUNT CAR POOL				
	TOTAL DLC	10	10		20
6P22	COMMUNICATION	2	2	1	
#8	SERVICE				2
	TOTAL #8				2
	CONDUIT SIZE	78	78	78	103

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

AS-BUILT
Contract No. 07- 129924
Resident Engineer: MANNAA, H.
Completion Date: 03/20/2001

MODIFY RAMP METERING SYSTEM (LOCATION 1200)

SCALE: 1:1000

E-70

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER: PAT SULLIVAN
CALCULATED/DESIGNED BY: MM DATE 6/96
CHECKED BY: MMS 6/96
REVISED BY
DATE REVISED

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

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