INFORMATION HANDOUT

For Contract No. 07-2W6404
At 07-LA-10, 710-Var

Identified by
Project ID 0713000430

07-2W6404
07-LA-10, 710-Var
Project ID 0713000430

MATERIALS INFORMATION

Fiber Optic As-Built Plans

ABBREVIATIONS: (SHEETS E-154 THROUGH E-278)

12SMFO	-	12 SINGLEMODE FIBER OPTIC CABLE
48SMFO	-	48 SINGLEMODE FIBER OPTIC CABLE
72SMFO	-	72 SINGLEMODE FIBER OPTIC CABLE
6P22	-	6-PAIR 22 CABLE
50P22	-	50-PAIR 22 CABLE
AVC	-	AUTOMATIC VEHICLE CLASSIFICATION
CCR	-	CAMERA CONTROL RECEIVER
CO	-	COMPANY
DEMUX	-	DEMULTIPLEXER
DS-1	-	DIGITAL SIGNAL LEVEL 1
FDU	-	FIBER DISTRIBUTION UNIT
FOCM	-	FIBER OPTIC CONTROL MODEM
FOTM	-	FIBER OPTIC TRAFFIC MODEM
LCU	-	LOCAL CONTROL UNIT
MUX	-	MULTIPLEXER
PDA	-	POWER DISTRIBUTION ASSEMBLY
RMS	-	RAMP METERING SYSTEM
SCE	-	SOUTHERN CALIFORNIA EDISON
TDM	-	TIME DIVISION MULTIPLEXER
TP	-	TWISTED PAIR
VMX, V-MUX	-	VIDEO MULTIPLEXER
XMTR	-	TRANSMITTER
V-TX, VX	-	VIDEO TRANSMIT
V-RX, VR	-	VIDEO RECEIVE
VTD	-	VIDEO TRANSMITTER/DATA TRANSCEIVER
VRD	-	VIDEO RECEIVER/DATA TRANSCEIVER
TS	-	TRAFFIC SIGNAL
CT ID	-	CALTRANS IDENTIFICATION
DWP	-	DEPARTMENT OF WATER AND POWER
CCM	-	CAMERA CONTROL MODEM
SCE	-	SOUTHERN CALIFORNIA EDISON
NOM	-	NOMINAL
VSM	-	VIDEO SWITCH MATRIX

GENERAL NOTES: (SHEETS E-154 THROUGH E-278)

1. THE LOCATION OF EXISTING CONTROLLER CABINETS, EXISTING SERVICE ENCLOSURES, AND POWER POLES ARE APPROXIMATE. THE LOCATION OF PROPOSED PULL BOXES AND SPLICE VAULTS ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
2. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL PROVIDE 72 HOUR ADVANCE WRITTEN NOTICE TO ALL AGENCIES CONCERNED.
3. UNLESS OTHERWISE NOTED, ALL COMMUNICATION CONDUIT BENDS SHALL BE 1.2 m RADIUS FACTORY BENDS.
4. COMMUNICATION CONDUIT SHALL BE CENTERED IN THE PAVED SHOULDER OR AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
5. ALL CONDUITS INSTALLED ACROSS FREEWAYS AND RAMPS SHALL BE BY DIRECTIONAL JACKING METHOD, UNLESS OTHER WISE DIRECTED BY THE ENGINEER. ALL CONDUITS INSTALLED ALONG FREEWAYS AND RAMPS ON HOT MIX ASPHALT, CONCRETE PAVEMENT AND SOIL, SHALL BE BY OPEN TRENCH METHOD UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SEE SHEET E-255. NO HAND JACKING IS ALLOWED.
6. FOR NOTES PERTAINING TO UTILITIES SEE SHEET U-1.
7. ALL PULL BOXES AND SPLICE VAULTS SHALL BE INSTALLED IN UNPAVED AREA UNLESS NOTED OTHERWISE.
8. FOR BRIDGE ATTACHMENTS, SEE SHEET E-277.

AS-BUILT

Contract No. 07- 07-166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.5/50.4	1117	1317

Conway Chu 1/17/08
REGISTERED ELECTRICAL ENGINEER

5-5-08
PLANS APPROVAL DATE

CONWAY CHU No. E 15305 EXP. 03-31-09 ELECTRICAL REGISTERED PROFESSIONAL ENGINEER 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.

LEGEND: (SHEETS E-154 THROUGH E-278)

- CCTV — EXISTING CCTV CABINET
- VN — EXISTING VIDEO NODE CABINET
- DN — EXISTING DATA NODE CABINET
- CN — EXISTING CABLE NODE CABINET
- V (S) — SPLICE VAULT WITH SPLICE CLOSURE
- [V] (S) — EXISTING SPLICE VAULT WITH SPLICE CLOSURE
- V — SPLICE VAULT
- [V] — EXISTING SPLICE VAULT
- EXISTING VAULT
- FIBER OPTIC CABLE
- DELIMITER FOR PROJECT NOTES — EXAMPLE: 1 1 C 1 2
- C — TO REST OF COMMUNICATION SYSTEM
- PULL BOX No. 5(T) WITH TAMPER-PROOF PIN HEAD BOLTS INSTEAD OF HOLD-DOWN BOLT.
- 6(T) — PULL BOX No. 6(T) WITH TAMPER-PROOF PIN HEAD BOLTS INSTEAD OF HOLD-DOWN BOLT.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM
(ABBREVIATIONS, LEGEND AND NOTES)

NO SCALE

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 => 08-JAN-2014 TIME PLOTTED => 10:22

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s111708 DGN FILE => 716681ua153.dgn | CU 07388 | EA 166811

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

PROJECT NOTES: (THIS SHEET ONLY)

2 2-48SMFO AND 72SMFO IN 103C WITH 4 SIZE 25 INNERDUCTS. 103C, MT.

6 53C, 12SMFO.

9 RC 6P22. ADD 12SMFO.

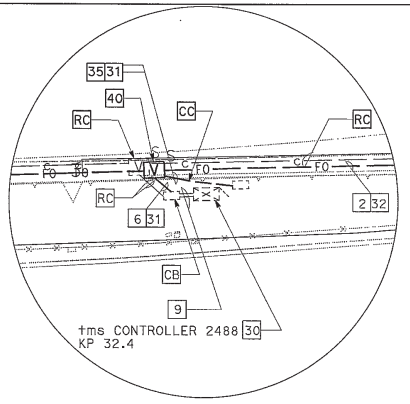
30 INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CABINET. CONNECT 12SMFO.

31 TRENCH AND INSTALL CONDUIT(S) IN SOIL.

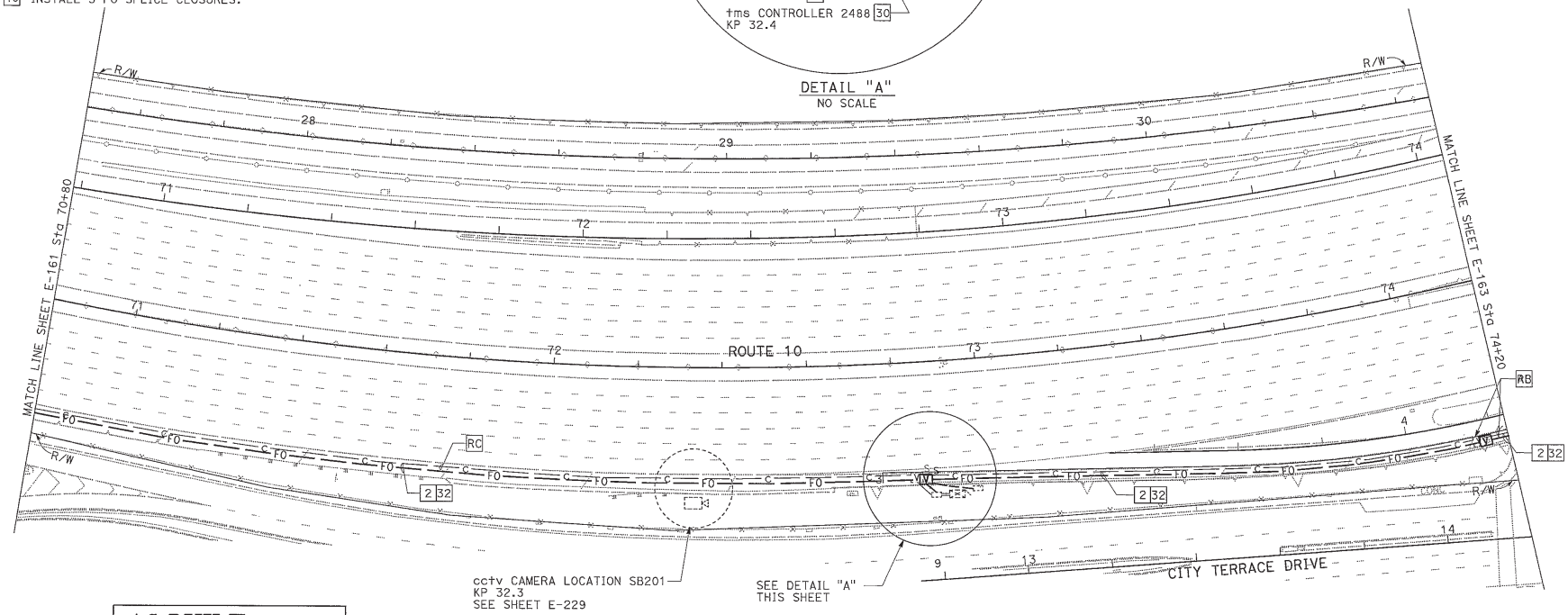
32 TRENCH AND INSTALL CONDUIT(S) IN PAVED SHOULDER.

35 53C, MT.

40 INSTALL 3 FO SPLICE CLOSURES.



DETAIL "A"
NO SCALE



AS-BUILT

Contract No. 07- 07-166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

FOR SCHEMATIC SEE SHEET E-243.
FOR ABBREVIATIONS, LEGEND AND GENERAL NOTES SEE SHEET E-153.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-162

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.5/50.4	1126	1317

Conway Chu 1/17/08
REGISTERED ELECTRICAL ENGINEER

5-5-08
PLANS APPROVAL DATE

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

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 => 08-JAN-2014 TIME PLOTTED => 10:22

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s111708
DGN FILE => 716681ua162.dgn
CU 07388
EA 166811

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	10	29.5/50.4	1127	1317

Conway Chu 1/17/08
REGISTERED ELECTRICAL ENGINEER

5-5-08
PLANS APPROVAL DATE

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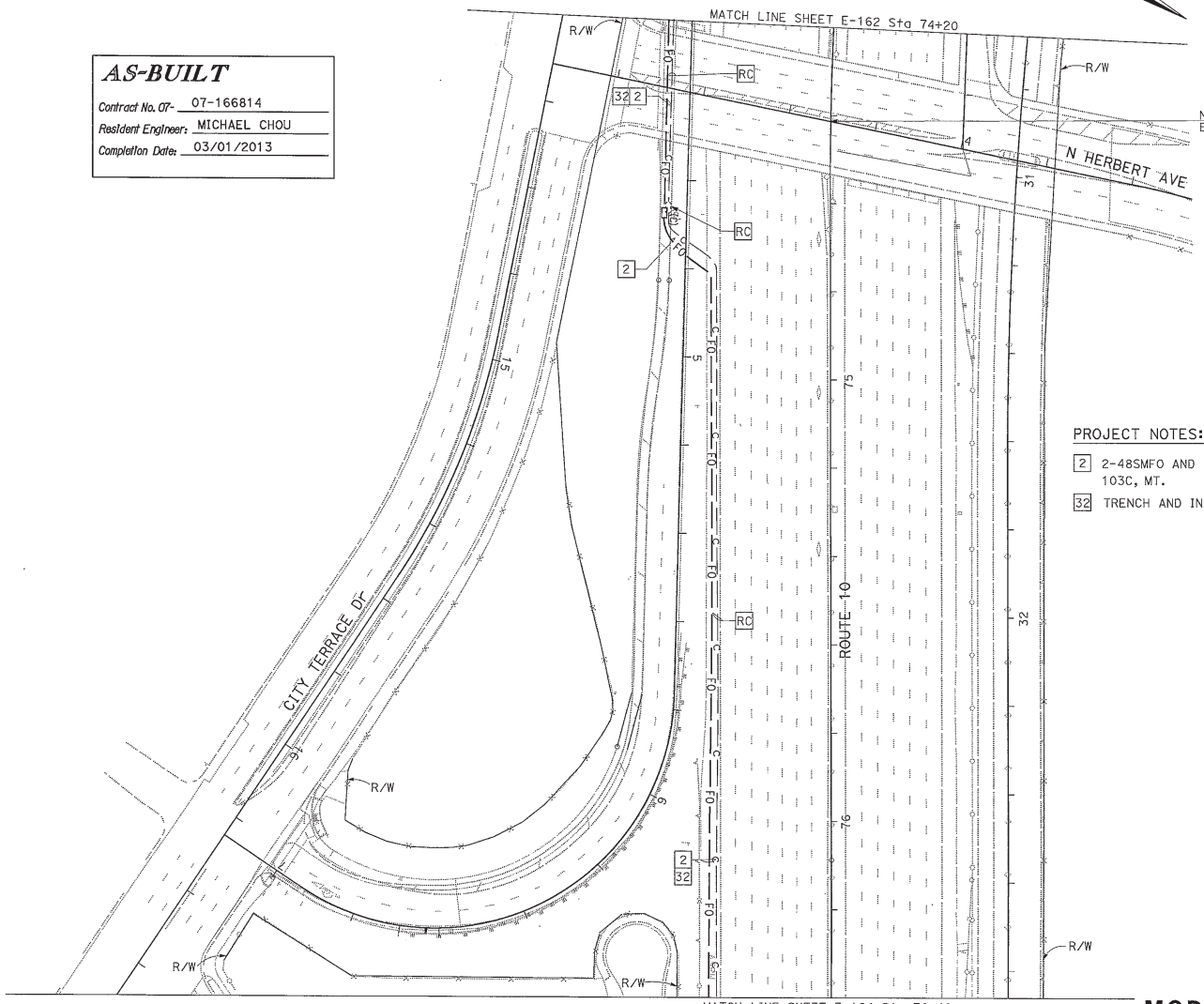
REGISTERED PROFESSIONAL ENGINEER
CONWAY CHU
No. E 15305
EXP. 03-31-09
ELECTRICAL
STATE OF CALIFORNIA

AS-BUILT

Contract No. 07- 07-166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013



PROJECT NOTES: (THIS SHEET ONLY)

2 2-48SMFO AND 72SMFO IN 103C WITH 4 SIZE 25 INNERDUCTS. 103C, MT.

32 TRENCH AND INSTALL CONDUIT(S) IN PAVED SHOULDER.

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

E-163

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 => 08-JAN-2014 TIME PLOTTED => 10:22

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s111708
DGN FILE => 716681ua163.dgn

CU 07388

EA 166811

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

MATCH LINE SHEET E-165 Sta 82+80

IRRIGATION CONTROLLER KP 33.4

AS-BUILT

Contract No. 07- 07-166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013

RMS CONTROLLER 2478 KP 33.4

TS CONTROLLER KP 33.5

CCTV CAMERA LOCATION SB209 KP 33.5 SEE SHEET E-230

N EASTERN Ave

N EASTERN Ave OC Br No. 53-123 KP 33.5

ROUTE 10

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

MATCH LINE SHEET E-167 Sta 85+30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.5/50.4	1130	1317

Conway Chu 1/17/08
REGISTERED ELECTRICAL ENGINEER

5-5-08
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CONWAY CHU No. E 15305 Exp. 03-31-09 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.

PROJECT NOTES: (THIS SHEET ONLY)

1 RC CONDUCTORS AND INNERDUCTS. INSTALL 2-48SMFO, 72SMFO AND 4 SIZE 25 INNERDUCTS.
6 53C, 12SMFO.
9 RC 6P22. ADD 12SMFO.
10 COIL 15 m OF 12SMFO IN PULL BOX.
28 RC TP SPLICE CLOSURE. INSTALL FO SPLICE CLOSURE.
29 INSTALL 2 FO SPLICE CLOSURES.
30 INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CABINET. CONNECT 12SMFO.
31 TRENCH AND INSTALL CONDUIT(S) IN SOIL.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

E-166

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
JACQUELINE C. TAN	CONWAY CHU	JACQUELINE C. TAN		

LAST REVISION DATE PLOTTED => 08-JAN-2014
00-00-00 TIME PLOTTED => 10:22

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s111708
DGN FILE => 716681ua166.dgn

CU 07388

EA 166811

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

AS-BUILT

Contract No. 07- 07-166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013

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

5-5-08
PLANS APPROVAL DATE

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

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Caltrans Metric

TS CONTROLLER KP 33.7

STATE UNIVERSITY Dr

SPRR

R/W

42

CAMPUS Rd

IRRIGATION CONTROLLER KP 33.8

CAMPUS Rd OC Br No. 53-2054 KP 33.8

ROUTE 10

86

87

88

MATCH LINE SHEET E-166 Sta 85+30

MATCH LINE SHEETS E-168 AND E-169 Sta 88+50

SEE SHEET E-99 FOR Exist dlc

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

E-167

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 => 08-JAN-2014
TIME PLOTTED => 10:22

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RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s111708
DGN FILE => 71668tua167.dgn
CU 07388
EA 166811

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	10	29.5/50.4	1132	1317

Conway Chu 1/17/08
REGISTERED ELECTRICAL ENGINEER

5-5-08
PLANS APPROVAL DATE

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

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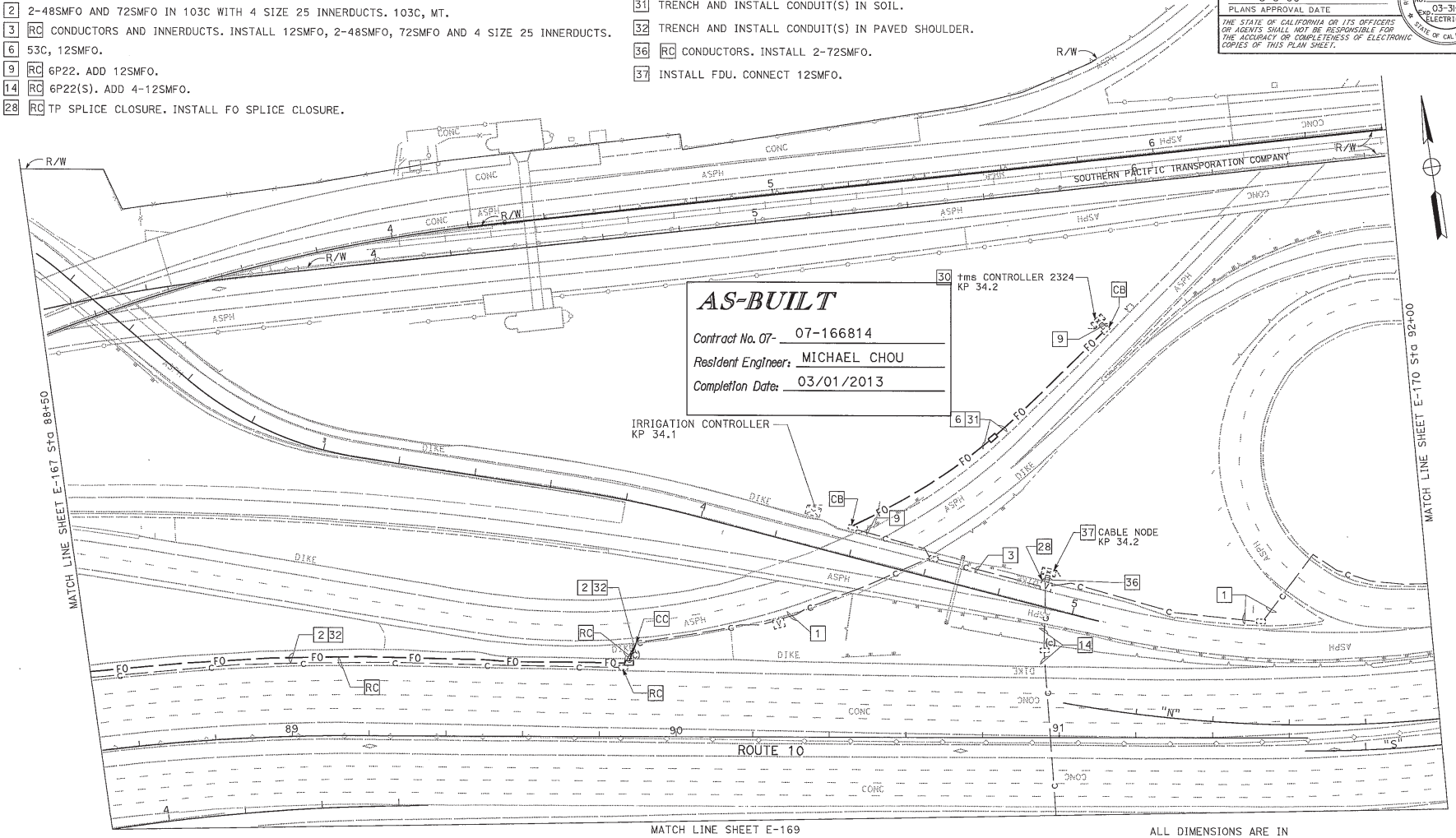
Caltrans Metric

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.
3 RC CONDUCTORS AND INNERDUCTS. INSTALL 12SMFO, 2-48SMFO, 72SMFO AND 4 SIZE 25 INNERDUCTS.
6 53C, 12SMFO.
9 RC 6P22. ADD 12SMFO.
14 RC 6P22(S). ADD 4-12SMFO.
28 RC TP SPLICE CLOSURE. INSTALL FO SPLICE CLOSURE.
30 INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CABINET. CONNECT 12SMFO.
31 TRENCH AND INSTALL CONDUIT(S) IN SOIL.
32 TRENCH AND INSTALL CONDUIT(S) IN PAVED SHOULDER.
36 RC CONDUCTORS. INSTALL 2-72SMFO.
37 INSTALL FDU. CONNECT 12SMFO.



FOR SCHEMATIC SEE SHEET E-244.

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM
MODIFY CABLE NODE

SCALE 1:500

E-168

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CALCULATED-DESIGNED BY: CONWAY CHU
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BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s111708
DGN FILE => 71668:ua168.dgn
CU 07388
EA 166811

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	10	29.5/50.4	1133	1317

Conway Chu 1/17/08
REGISTERED ELECTRICAL ENGINEER

5-5-08
PLANS APPROVAL DATE

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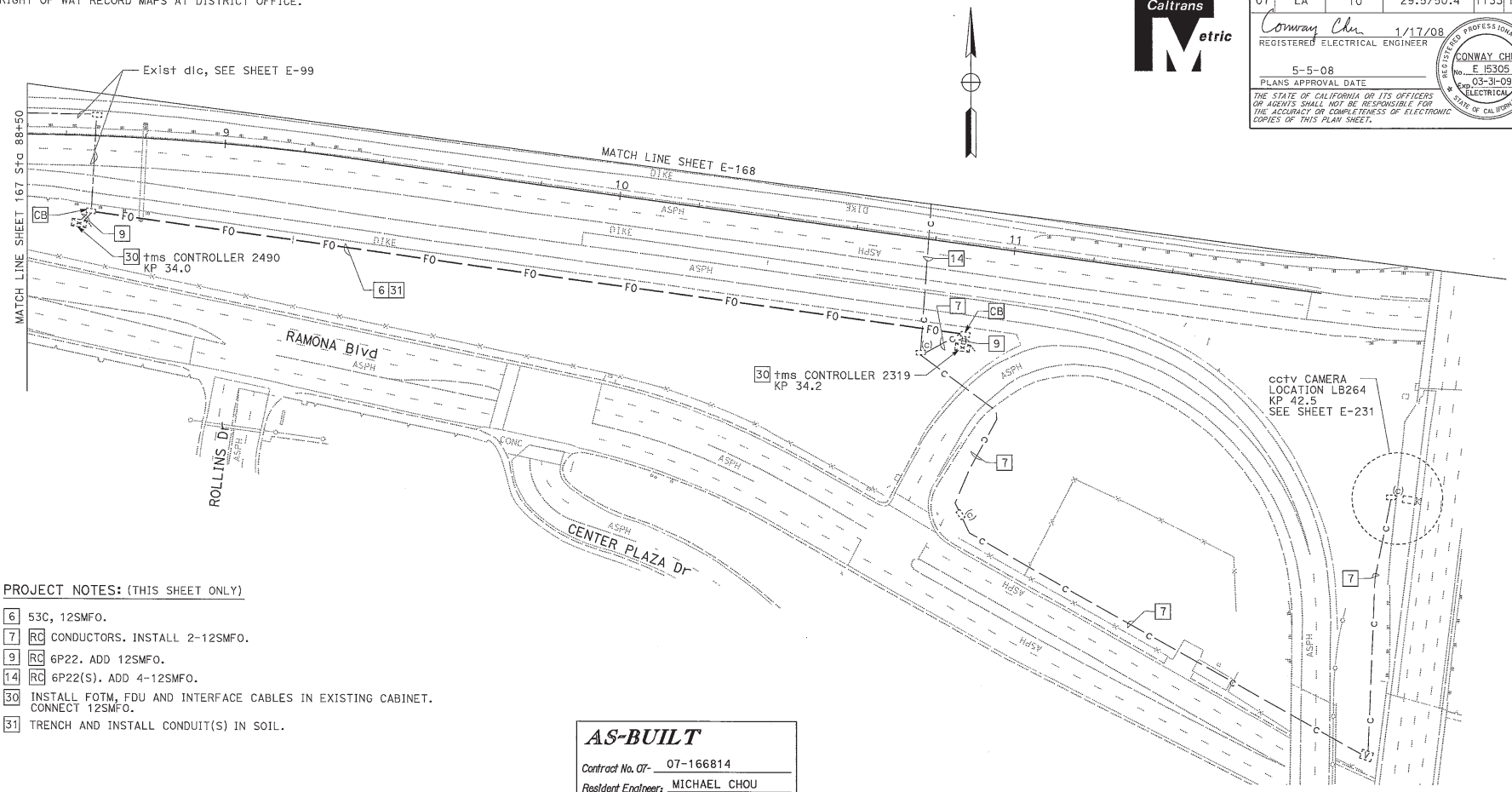
REGISTERED PROFESSIONAL ENGINEER
CONWAY CHU
No. E 15305
Exp. 03-31-09
ELECTRICAL
STATE OF CALIFORNIA



PROJECT NOTES: (THIS SHEET ONLY)

6 53C, 12SMFO.
7 RC CONDUCTORS. INSTALL 2-12SMFO.
9 RC 6P22. ADD 12SMFO.
14 RC 6P22(S). ADD 4-12SMFO.
30 INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CABINET. CONNECT 12SMFO.
31 TRENCH AND INSTALL CONDUIT(S) IN SOIL.

AS-BUILT
Contract No. 07- 07-166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013

FOR SCHEMATICS SEE SHEET E-244.

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

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

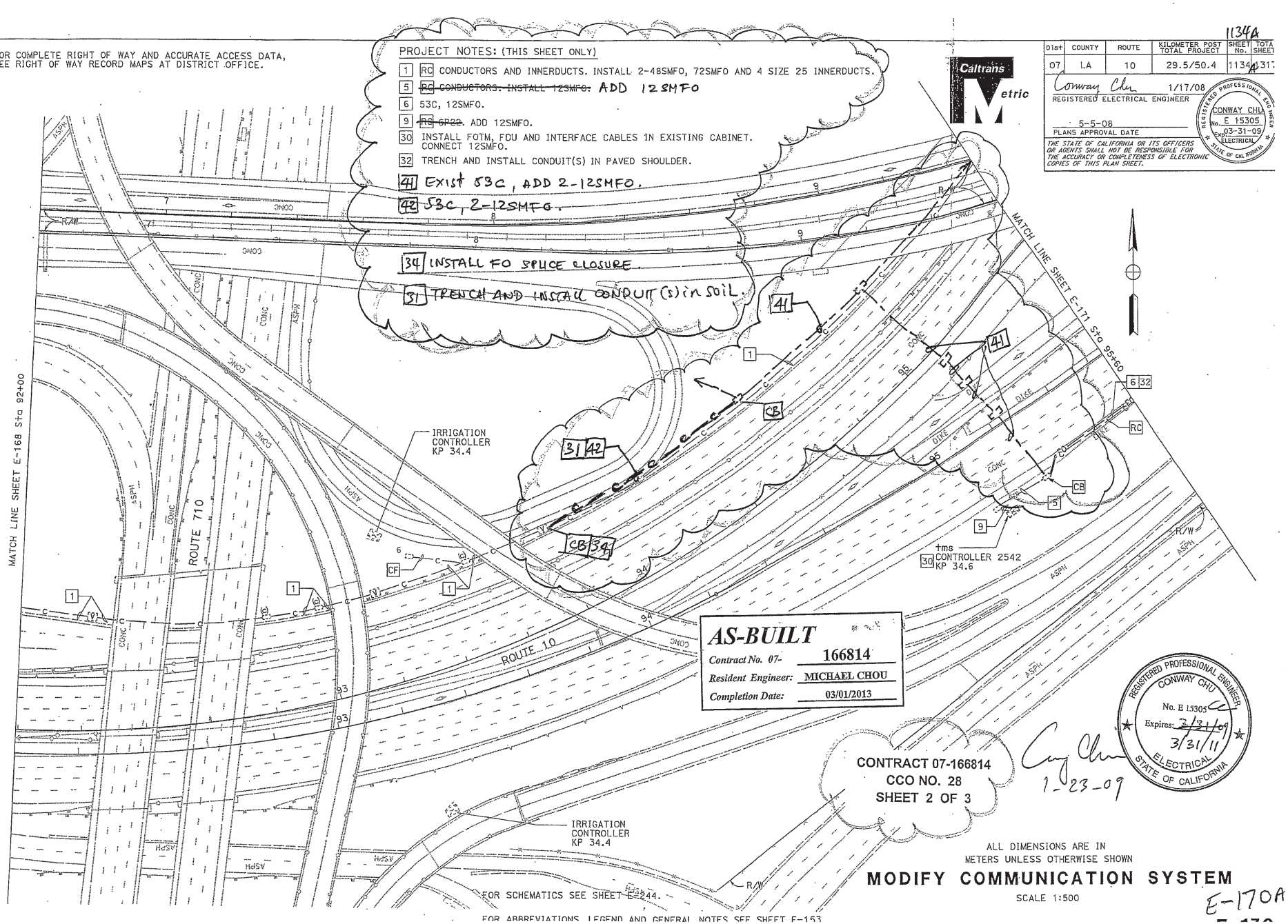
SCALE 1:500

E- 169

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 => 08-JAN-2014
TIME PLOTTED => 10:22

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s111708
DGN FILE => 716681ua169.dgn
CU 07388
EA 166811


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.
5 RC ~~CONDUCTORS. INSTALL 12SMFO.~~ ADD 12SMFO
6 53C, 12SMFO.
9 RC ~~6P22.~~ ADD 12SMFO.
30 INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CABINET. CONNECT 12SMFO.
32 TRENCH AND INSTALL CONDUIT(S) IN PAVED SHOULDER.
41 EXIST 53C, ADD 2-12SMFO.
42 53C, 2-12SMFO.
34 INSTALL FO SPLICE CLOSURE.
31 TRENCH AND INSTALL CONDUIT(S) IN SOIL.
Caltrans Metric
Dist COUNTY ROUTE KILOMETER POST TOTAL PROJECT SHEET No. TOTAL SHEET
07 LA 10 29.5/50.4 1134A 317
Conway Chu 1/17/08
REGISTERED ELECTRICAL ENGINEER
5-5-08
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 SHEET.
REGISTERED PROFESSIONAL ENGINEER CONWAY CHU No. E 15305 Exp. 03-31-09 ELECTRICAL STATE OF CALIFORNIA
1134A
MATCH LINE SHEET E-168 Sta 92+00
MATCH LINE SHEET E-171 Sta 95+60
ROUTE 710
ROUTE 10
IRRIGATION CONTROLLER KP 34.4
IRRIGATION CONTROLLER KP 34.4
tms CONTROLLER 2542 KP 34.6
AS-BUILT
Contract No. 07- 166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013
CONTRACT 07-166814
CCO NO. 28
SHEET 2 OF 3
1-23-09
REGISTERED PROFESSIONAL ENGINEER CONWAY CHU No. E 15305 Expires: 3/31/09 3/31/11 ELECTRICAL STATE OF CALIFORNIA
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
MODIFY COMMUNICATION SYSTEM
SCALE 1:500
FOR SCHEMATICS SEE SHEET E-244.
FOR ABBREVIATIONS, LEGEND AND GENERAL NOTES SEE SHEET E-153
E-170A
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

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

PROJECT NOTES: (THIS SHEET ONLY)

[2] 2-48SMFO AND 72SMFO IN 103C WITH 4 SIZE 25 INNERDUCTS. 103C, MT.
[6] 53C, 12SMFO.
[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	1142	1317

Conway Chu 1/17/08
REGISTERED ELECTRICAL ENGINEER

5-5-08
PLANS APPROVAL DATE

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

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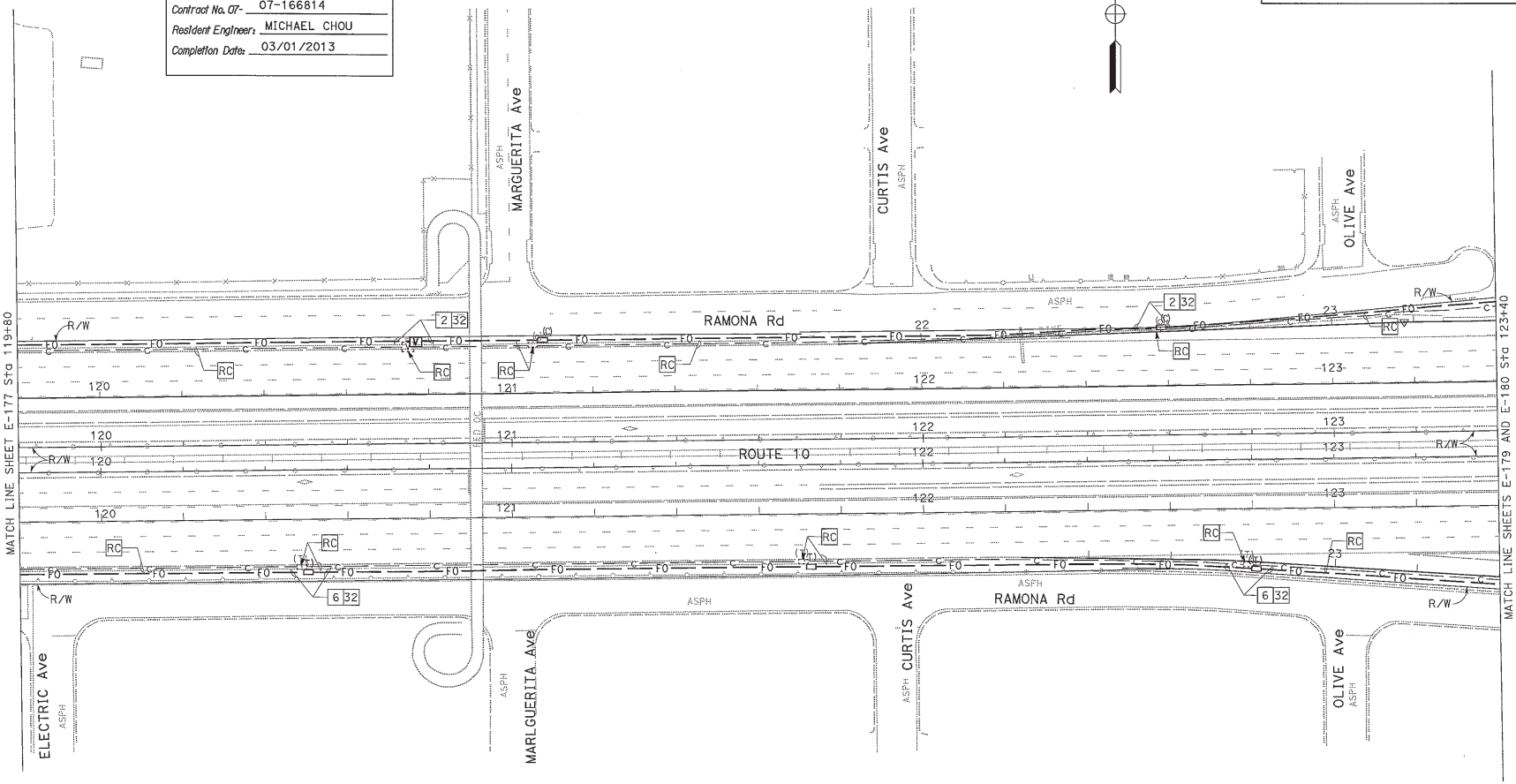
AS-BUILT

Contract No. 07- 07-166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013



ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

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

E-178

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
JACQUELINE C. TAN	CONWAY CHU	
	CHECKED BY	DATE REVISED
	JACQUELINE C. TAN	

LAST REVISION 00-00-00 DATE PLOTTED => 08-JAN-2014 TIME PLOTTED => 10:22

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s111708 DGN FILE => 716681ua178.dgn | CU 07388 | EA 166811

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

PROJECT NOTES: (THIS SHEET ONLY)

2 2-48SMFO AND 72SMFO IN 103C WITH 4 SIZE 25 INNERDUCTS. 103C, MT.
4 INSTALL CONDUIT INSIDE CONCRETE BARRIER.
6 53C, 12SMFO.
8 ADD 12SMFO.
12 ATTACH CONDUITS ON BRIDGE STRUCTURE. SEE BRIDGE PLANS FOR DETAILS.
15 RC CONDUCTORS. INSTALL 3-12SMFO.
17 53C, 3-12SMFO.
30 INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CABINET. CONNECT 12SMFO.
31 TRENCH AND INSTALL CONDUIT(S) IN SOIL.
32 TRENCH AND INSTALL CONDUIT(S) IN PAVED SHOULDER.
34 INSTALL FO SPLICE CLOSURE.
35 53C, MT.
41 FO AND TP SPLICE CLOSURES. INSTALL 2 FO SPLICE CLOSURES.

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.5/50.4	1143	1317

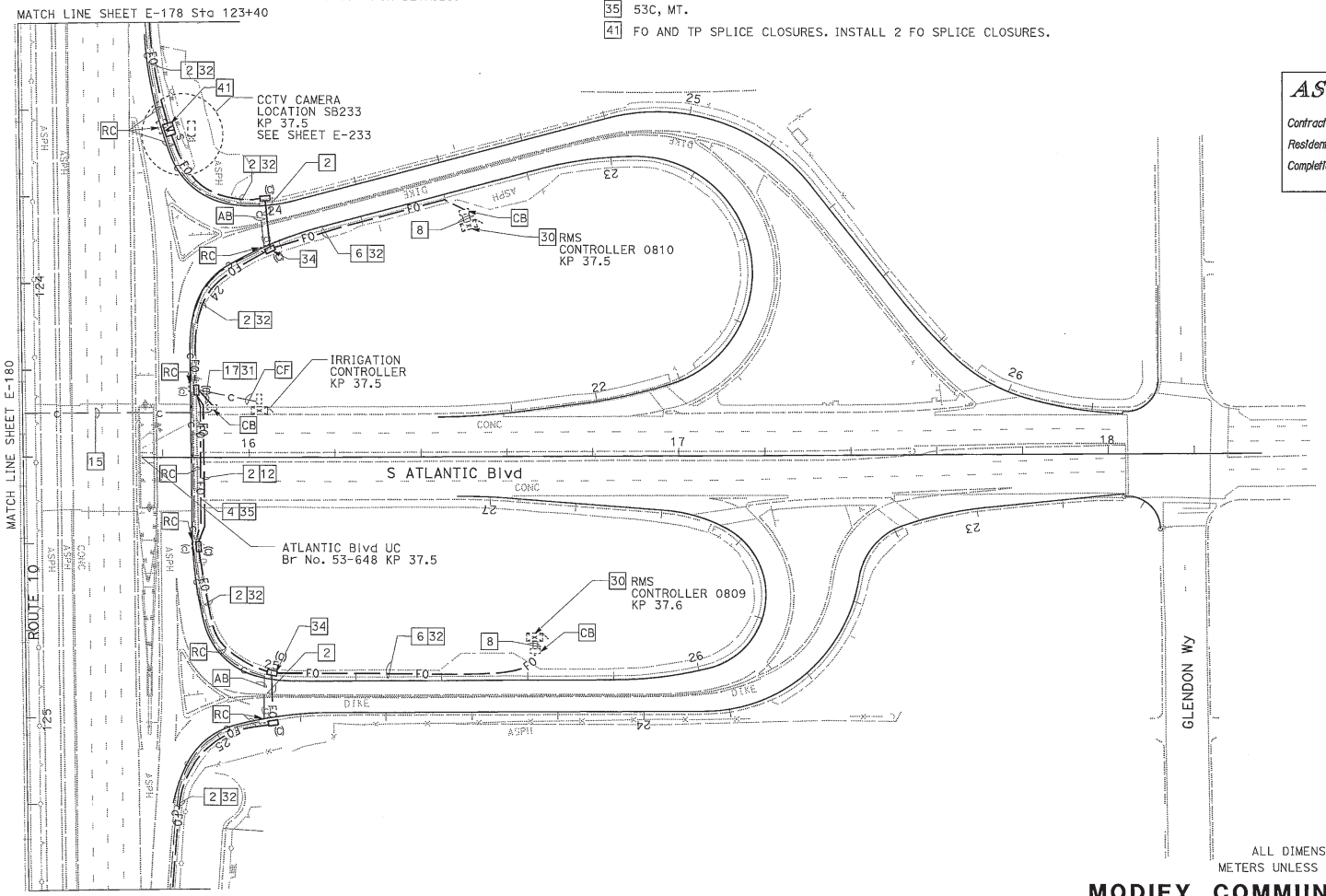
Conway Chu 1/17/08
REGISTERED ELECTRICAL ENGINEER

5-5-08
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CONWAY CHU — No. E 15305 — EXP 03-31-09 — 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.

AS-BUILT
Contract No. 07- 07-166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013



ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

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

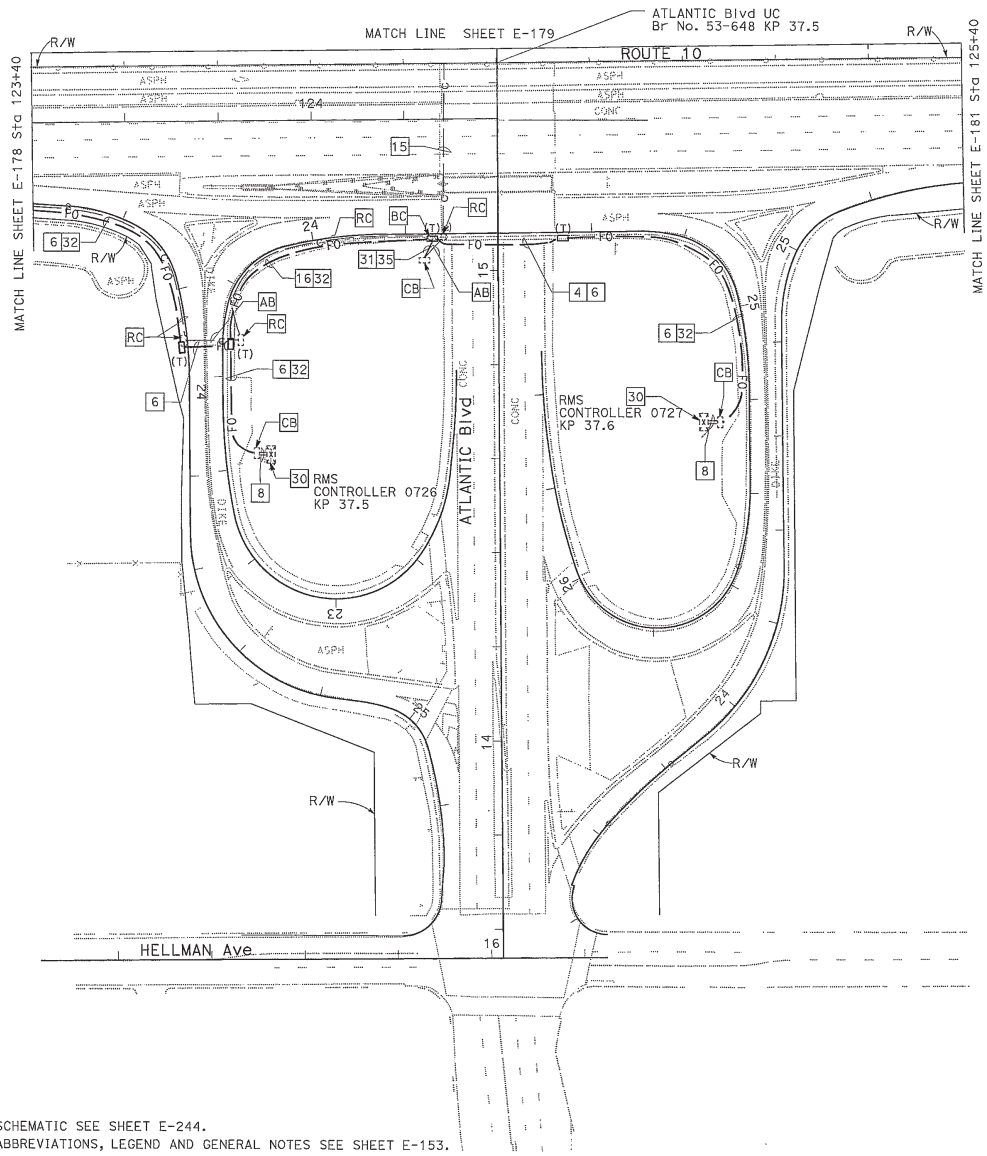
E-179

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 => 08-JAN-2014
TIME PLOTTED => 10:22

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s111708
DGN FILE => 716681ua179.dgn
CU 07388
EA 166811

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



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

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	29.5/50.4	1144	1317

Conway Chu 1/17/08
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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PROJECT NOTES: (THIS SHEET ONLY)

4 INSTALL CONDUIT INSIDE CONCRETE BARRIER.
6 53C, 12SMFO.
8 ADD 12SMFO.
15 RC CONDUCTORS. INSTALL 3-12SMFO.
16 53C, 2-12SMFO.
30 INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CABINET. CONNECT 12SMFO.
31 TRENCH AND INSTALL CONDUIT(S) IN SOIL.
32 TRENCH AND INSTALL CONDUIT(S) IN PAVED SHOULDER.
35 53C, MT.

AS-BUILT
Contract No. 07- 07-166814
Resident Engineer: MICHAEL CHOU
Completion Date: 03/01/2013

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

MODIFY COMMUNICATION SYSTEM

SCALE 1:500

E-180

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 DATE PLOTTED => 08-JAN-2014
00-00-00 TIME PLOTTED => 10:22

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s111708
DGN FILE => 71668tua180.dgn
CU 07388
EA 166811