INFORMATION HANDOUT

For Contract No. 07-289201

At LA-710 Various Locations

Identified By

Project ID 0700021113

I. FIBER OPTIC SYSTEM AS-BUILT DRAWINGS

Rte 105 to Slauson Ave

Slauson Ave to Rte 60

II. ADL Concentration Data and Sample Location Maps

I. FIBER OPTIC SYSTEM AS-BUILT DRAWINGS

Rte 105 to Slauson Ave

Slauson Ave to Rte 60

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	612	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG
No. E16936
Exp 06/30/07
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

8-21-06
PLANS APPROVAL DATE

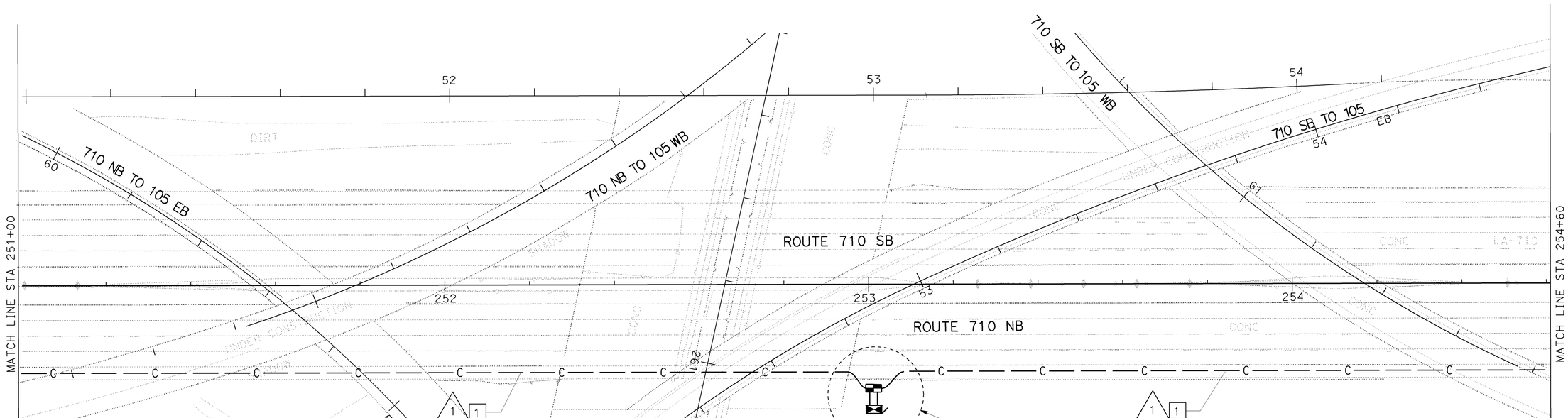
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)							
CONDUIT/ CONDUCTOR	FUNCTION	RUN					
		△1					
48SMFO CABLE	VIDEO DISTRIBUTION	1					
48SMFO CABLE	DATA DISTRIBUTION		1				
48SMFO CABLE	TRUNK CABLE			1			
INNERDUCT (SIZE 25)		1	1	1	1		
CONDUIT SIZE		103					103

CONSTRUCTION NOTES: (THIS SHEET ONLY)

[1] TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-116 FOR DETAILS.



AS-BUILT

Contract No. 07- 183114

Resident Engineer: N. MOUSSA

Completion Date: 06/29/11

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67

E-96

PROJECT ENGINEER: CANDACE FUNG
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT
CALCULATED/ DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
DATE 5/05 REVISED BY
5/05 DATE REVISED

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua096.dgn

CU 07388

EA 183111

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:28

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	613	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 Exp 06/30/07 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

8-21-06
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.

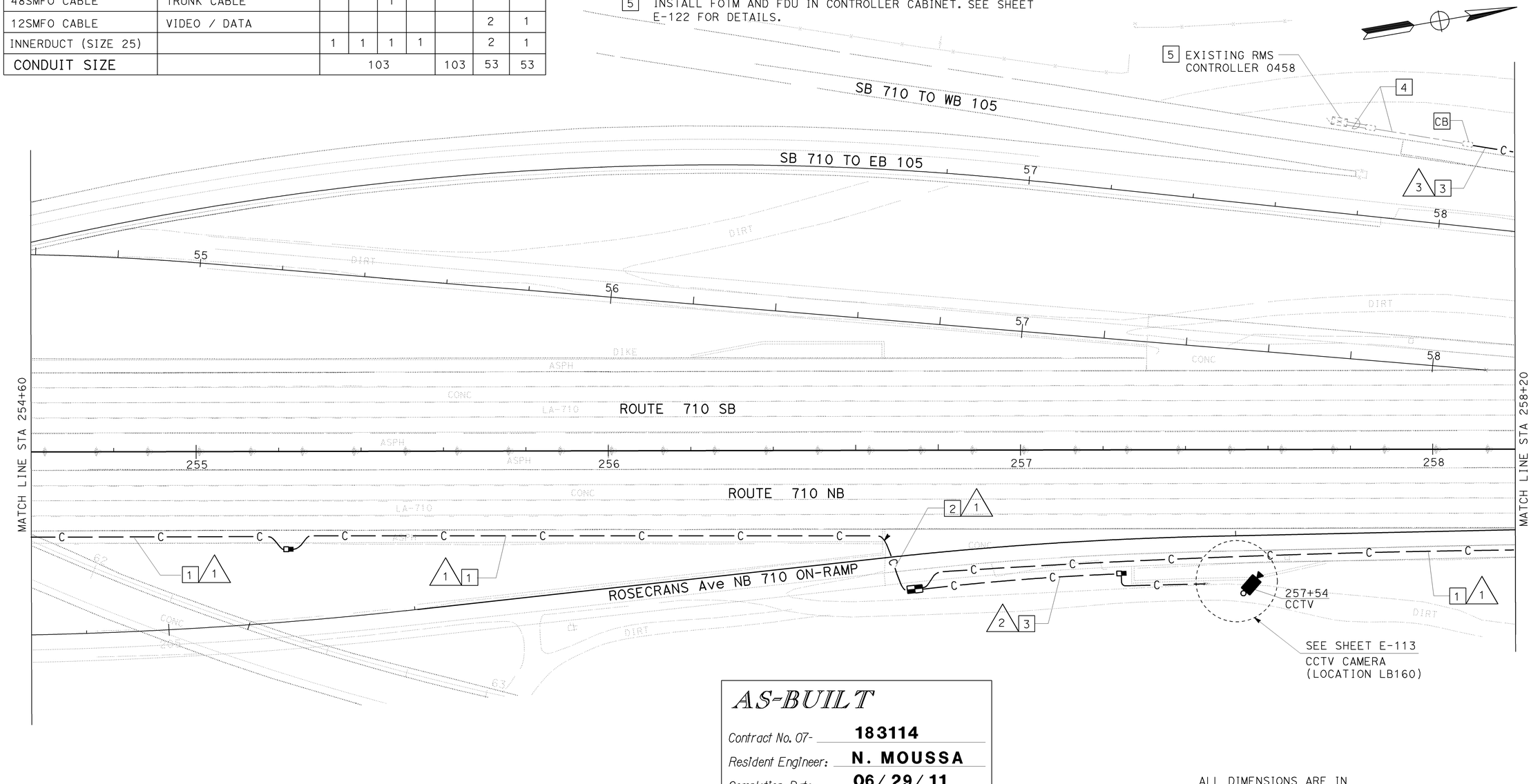
To get to Caltrans web site, go to: http://www.dot.ca.gov

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-116 FOR DETAILS.
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. ADD 12SMFO CABLE IN EXISTING CONDUIT AND CONNECT TO CONTROLLER.
5. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-122 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 1					2	3
48SMFO CABLE	VIDEO DISTRIBUTION	1						
48SMFO CABLE	DATA DISTRIBUTION		1					
48SMFO CABLE	TRUNK CABLE			1				
12SMFO CABLE	VIDEO / DATA						2	1
INNERDUCT (SIZE 25)		1	1	1	1		2	1
CONDUIT SIZE		103				103	53	53



AS-BUILT

Contract No. 07- **183114**
Resident Engineer: **N. MOUSSA**
Completion Date: **06/29/11**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

E-97

DATE	REVISED BY
5/05	CANDACE FUNG
5/05	JACQUELINE TAN

CALCULATED/ DESIGNED BY
CHECKED BY

PROJECT ENGINEER
CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:28

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua097.dgn

CU 07388

EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	614	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG
No. E16936
Exp 06/30/07
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

8-21-06
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.

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

AS-BUILT

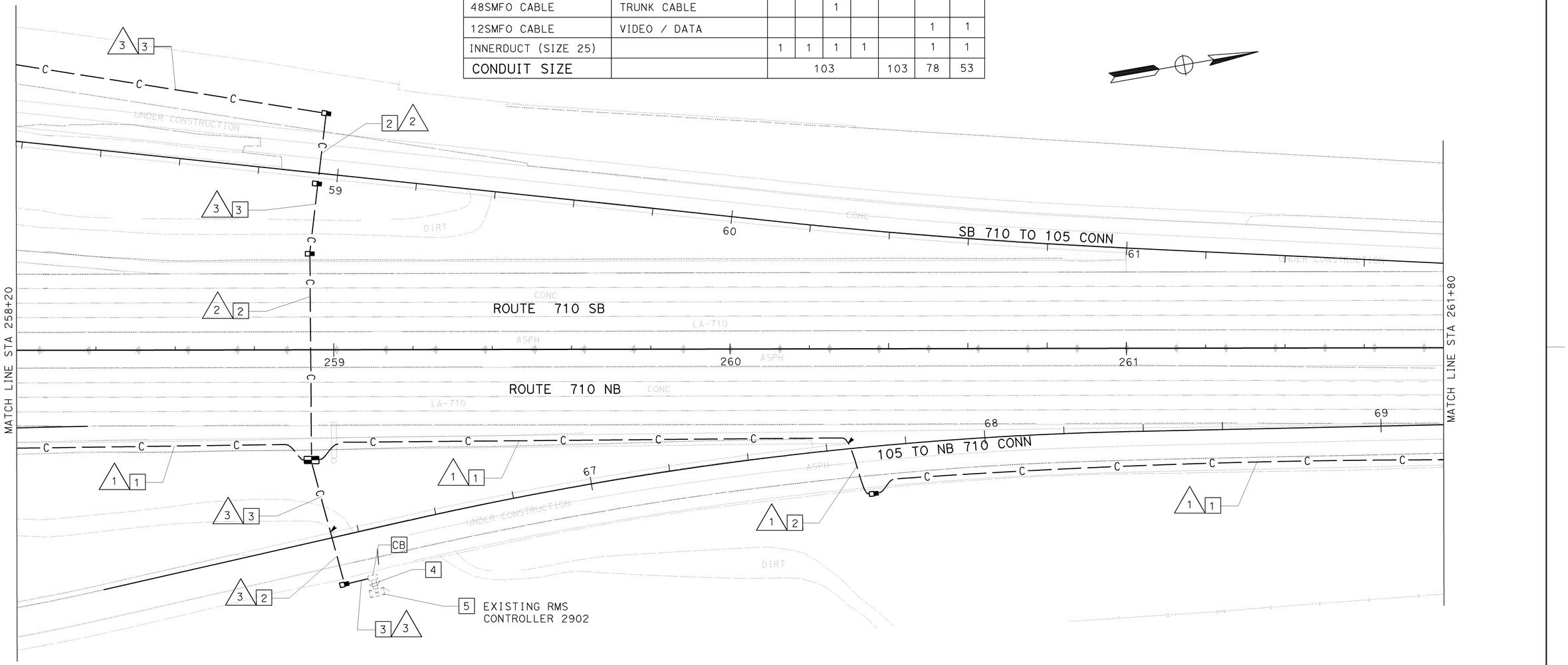
Contract No. 07- **183114**

Resident Engineer: **N. MOUSSA**

Completion Date: **06/29/11**

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN						
		1					2	3
48SMFO CABLE	VIDEO DISTRIBUTION	1						
48SMFO CABLE	DATA DISTRIBUTION		1					
48SMFO CABLE	TRUNK CABLE			1				
12SMFO CABLE	VIDEO / DATA						1	1
INNERDUCT (SIZE 25)		1	1	1	1		1	1
CONDUIT SIZE		103				103	78	53



CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-116 FOR DETAILS.
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. ADD 12SMFO CABLE IN EXISTING CONDUIT AND CONNECT TO CONTROLLER.
5. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-122 FOR DETAILS.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-98

DATE	REVISED BY
5/05	DATE REVISED
CANDACE FUNG	5/05
JACQUELINE TAN	5/05
CALCULATED/ DESIGNED BY	CHECKED BY

PROJECT ENGINEER
CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua098.dgn

CU 07388

EA 183111

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:28

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	615	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 EXP. 06/30/07 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

8-21-06
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.

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN						
		1					2	3
48SMFO CABLE	VIDEO DISTRIBUTION	1						
48SMFO CABLE	DATA DISTRIBUTION		1					
48SMFO CABLE	TRUNK CABLE			1				
12SMFO CABLE	VIDEO / DATA						1	1
INNERDUCT (SIZE 25)		1	1	1	1		1	1
CONDUIT SIZE		103				103	78	53

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-116 FOR DETAILS.
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. ADD 12SMFO CABLE IN EXISTING CONDUIT AND CONNECT TO CONTROLLER.
5. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-122 FOR DETAILS.

AS-BUILT

Contract No. 07- **183114**
Resident Engineer: **N. MOUSSA**
Completion Date: **06/29/11**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-82.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-99

DATE	REVISED BY	DATE REVISED
HP		4/02

CALCULATED/DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
PROJECT ENGINEER: CANDACE FUNG
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED => 29-MAY-2012 TIME PLOTTED => 10:28

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua099.dgn

CU 07388

EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	616	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
Exp. 06/30/07
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.

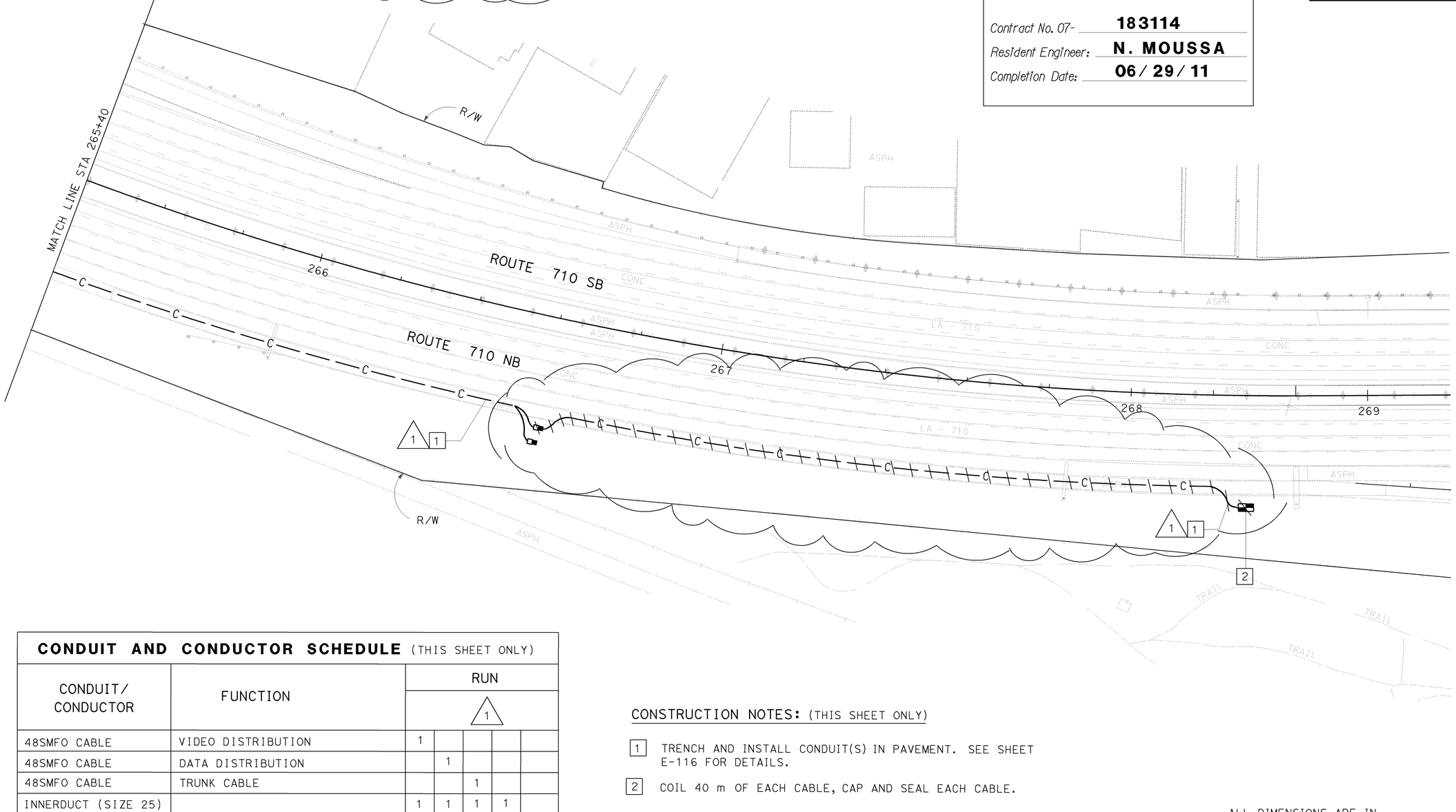
To get to Caltrans web site, go to: http://www.dot.ca.gov

Caltrans Metric

SEE REVISION SHEET #616A

AS-BUILT

Contract No. 07- **183114**
Resident Engineer: **N. MOUSSA**
Completion Date: **06/29/11**



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN △1				
48SMFO CABLE	VIDEO DISTRIBUTION	1				
48SMFO CABLE	DATA DISTRIBUTION		1			
48SMFO CABLE	TRUNK CABLE			1		
INNERDUCT (SIZE 25)		1	1	1	1	
CONDUIT SIZE		103				103

CONSTRUCTION NOTES: (THIS SHEET ONLY)

[1] TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-116 FOR DETAILS.

[2] COIL 40 m OF EACH CABLE, CAP AND SEAL EACH CABLE.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-100

CALCULATED/ DESIGNED BY	CANDACE FUNG	DATE 5/05	REVISED BY
CHECKED BY	JACQUELINE TAN	5/05	DATE REVISED

PROJECT ENGINEER: CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua100.dgn

CU 07388

EA 183111

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:28

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	616	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
Exp. 06/30/07
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.

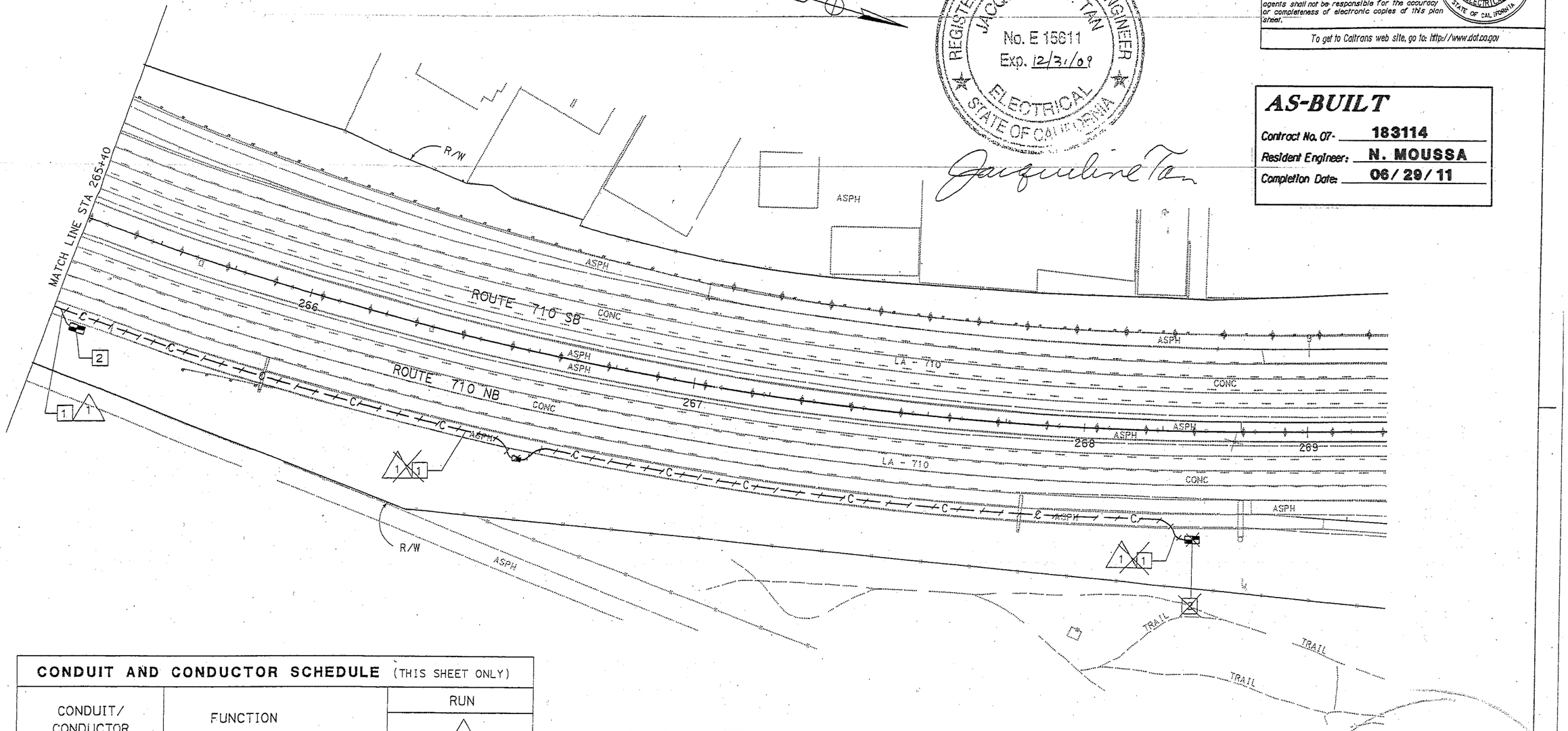
To get to Caltrans web site, go to: http://www.dot.ca.gov

REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. TAN
No. E 15611
Exp. 12/31/09
ELECTRICAL
STATE OF CALIFORNIA

Jacqueline Tan

AS-BUILT

Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN △1				
48SMFO CABLE	VIDEO DISTRIBUTION	1				
48SMFO CABLE	DATA DISTRIBUTION		1			
48SMFO CABLE	TRUNK CABLE			1		
INNERDUCT (SIZE 25)		1	1	1	1	
CONDUIT SIZE		103				103

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-116 FOR DETAILS.

2 COIL 40 m OF EACH CABLE, CAP AND SEAL EACH CABLE.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

07-183114
CCO # 29
Sheet 3 of 5

E-100A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER
Caltrans ITS DEVELOPMENT	CANDACE FUNG

	CALCULATED/ DESIGNED BY	DATE	REVISED BY
	CANDACE FUNG	5/05	
	CHECKED BY	DATE	DATE REVISED
	JACQUELINE TAN	5/05	

LAST REVISION 00-00-00 | DATE PLOTTED => 25-FEB-2006 | TIME PLOTTED => 10:32

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129438
DGN FILE => 71831lua100.dgn

CU 07388

EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	710	15.1/29.6	617	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
EXP. 06/30/07
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.

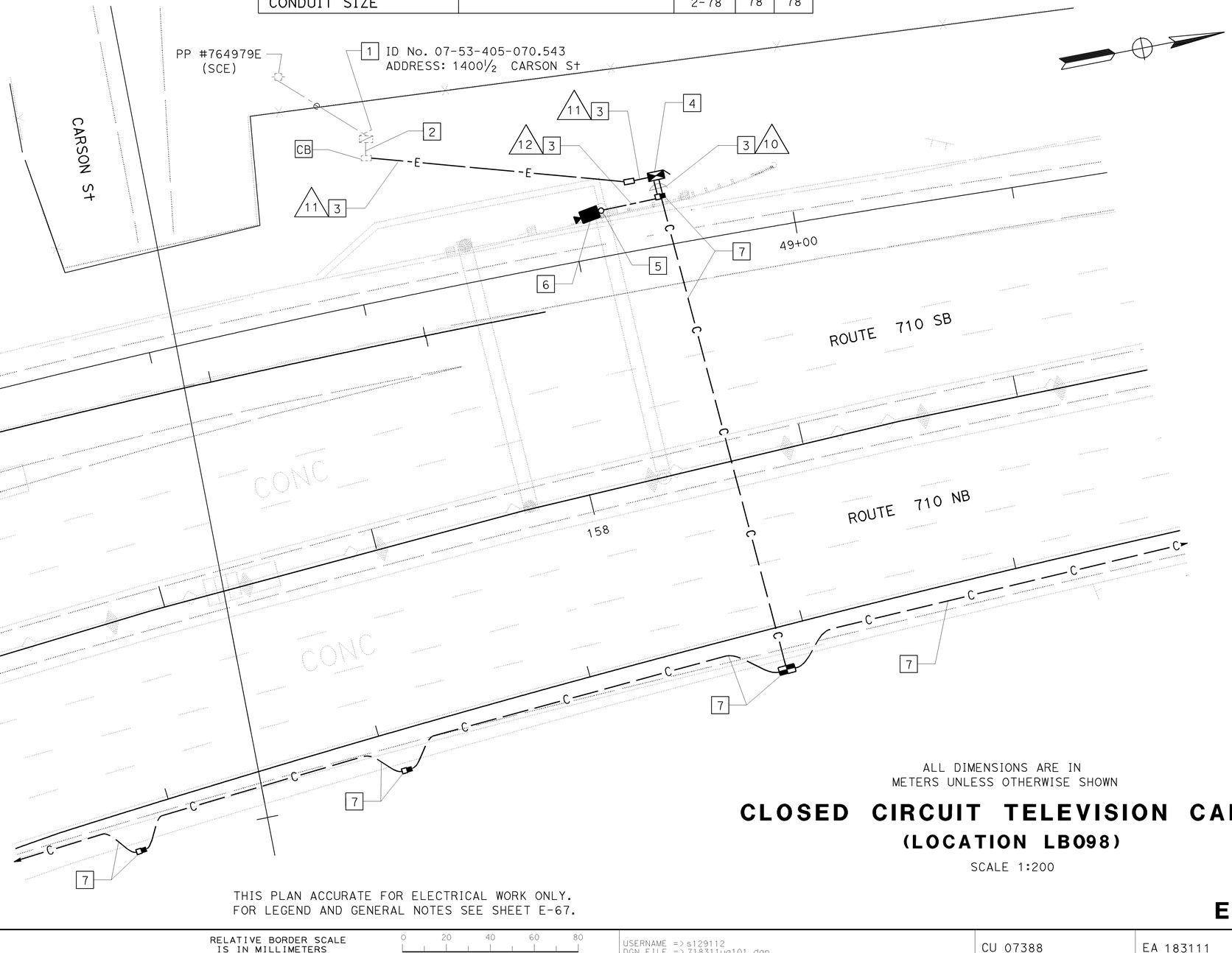
To get to Caltrans web site, go to: http://www.dot.ca.gov

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
   EXISTING:
   (1) 120 V, 1P, 20 A CB, FOR IRRIGATION
   ADD:
   (1) 120 V, 1P, 30 A CB, FOR CCTV CAMERA CONTROLLER CABINET
2. ADD 2#8 CONDUCTORS TO EXISTING CONDUIT.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-123 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
5. INSTALL TYPE CCTV 10 CAMERA POLE ON SIGN STRUCTURE.
6. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.
7. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 10	RUN 11	RUN 12
12SMFO CABLE	VIDEO / DATA	2		
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING	1		1
2#8	CAMERA CABINET SERVICE		1	
INNERDUCT (SIZE 25)				
CONDUIT SIZE		2-78	78	78



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB098)

SCALE 1:200

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

AS-BUILT

Contract No. 07- **183114**
Resident Engineer: **N. MOUSSA**
Completion Date: **06/29/11**

E-101

DATE	REVISED BY
5/05	CANDACE FUNG

DATE	DATE REVISED
5/05	5/05

CALCULATED/DESIGNED BY: JACQUELINE TAN
CHECKED BY: CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

PROJECT ENGINEER
CANDACE FUNG

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:28

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua101.dgn

CU 07388

EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	618	756

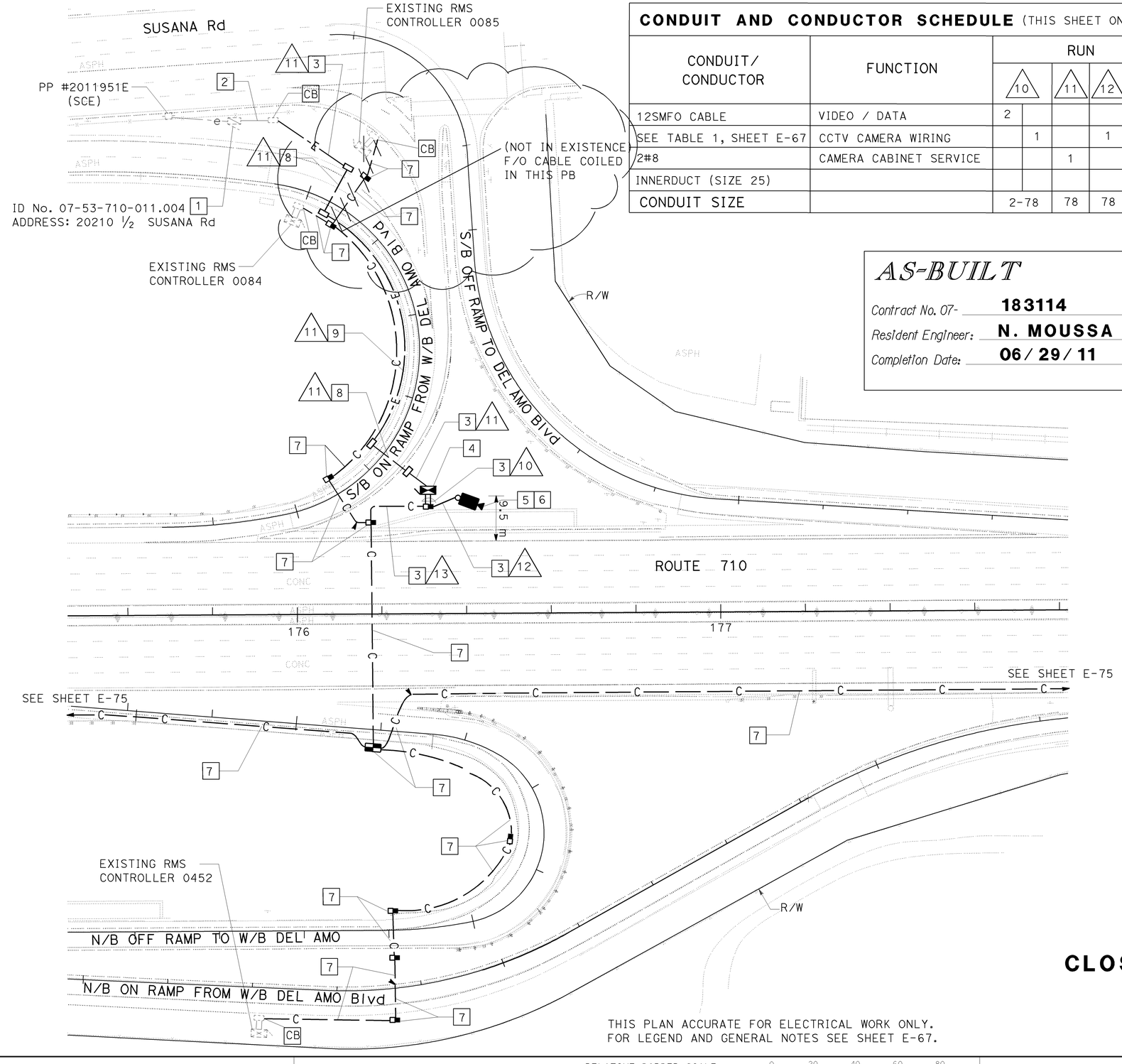
4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 Exp 06/30/07 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

8-21-06
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.

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



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 10	RUN 11	RUN 12	RUN 13
12SMFO CABLE	VIDEO / DATA	2			2
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING	1		1	
2#8	CAMERA CABINET SERVICE		1		
INNERDUCT (SIZE 25)					2
CONDUIT SIZE		2-78	78	78	78

AS-BUILT

Contract No. 07- **183114**
Resident Engineer: **N. MOUSSA**
Completion Date: **06/29/11**

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
   EXISTING:
   METER 1
   (1) 120 V, 1P, 20 A CB, FOR TDC
   (1) 240 V, 2P, 30 A CB, FOR SIGN
   (2) 120 V, 1P, 20 A CB, FOR RMS
   UNMETERED
   (1) 240 V, 2P, 40 A CB, FOR LIGHTS
   ADD:
   METER 1
   (1) 120 V, 1P, 30 A CB, FOR CCTV CAMERA CONTROLLER CABINET
2. ADD 2#8 CONDUCTORS TO EXISTING CONDUIT.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
5. INSTALL CCTV CAMERA POLE CCTV 40 ON NEW FOUNDATON.
6. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.
7. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.
8. JACKED CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.
9. INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICATION CONDUIT(S). SEE SHEET E-115 FOR DETAILS.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB109)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

E-102

DATE	REVISED BY
5/05	5/05 DATE REVISED

CALCULATED/ DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua102.dgn

CU 07388

EA 183111

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:28

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	619	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — EXP 06/30/07 — 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.

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUIT/ CONDUCTOR	FUNCTION	RUN			
		11	14	15	16
12SMFO CABLE	VIDEO / DATA		1		
6#1	CMS PANEL			1	1
2#8	CMS CABINET SERVICE	1		1	
INNERDUCT (SIZE 25)			1		
CONDUIT SIZE		78	78	78	78

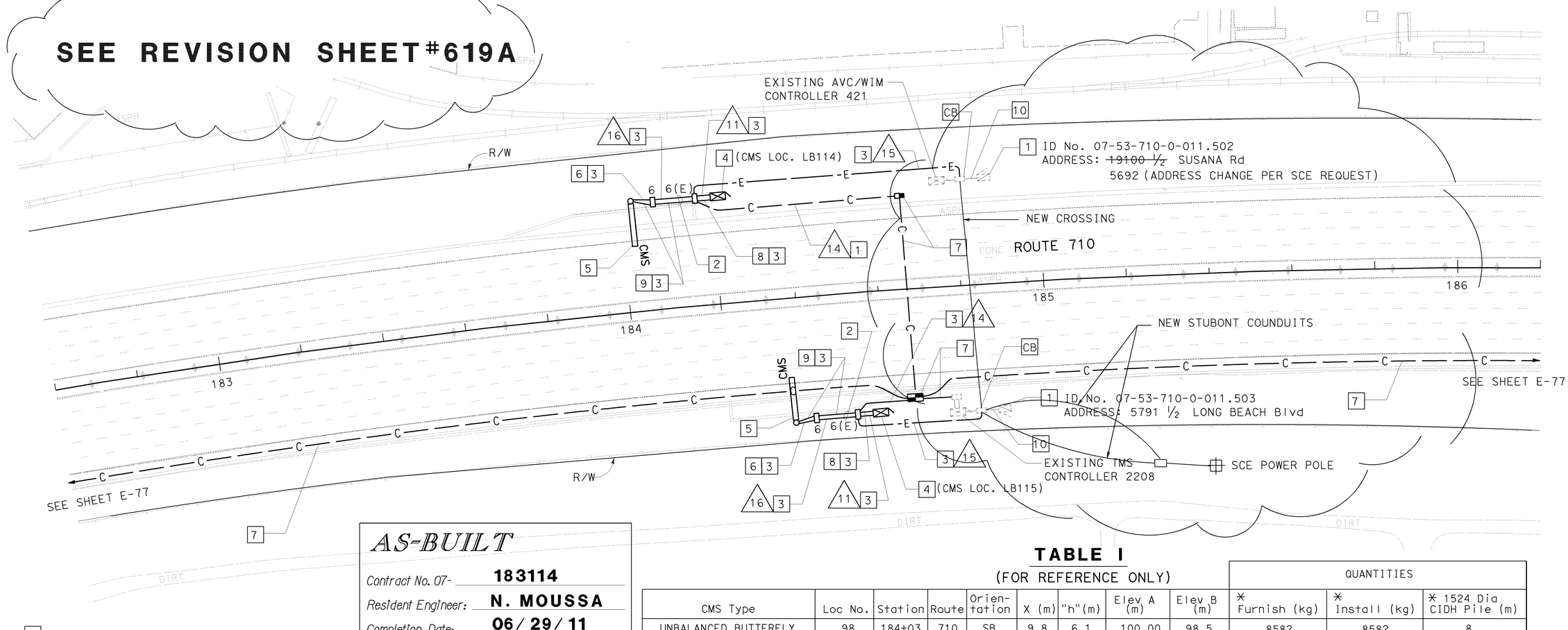
SEE REVISION SHEET #619A

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 EXISTING 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
ADD:
(1) 120 V, 1P, 30 A CB, FOR CMS CONTROLLER CABINET
(4) 120 V, 1P, 40 A CB, FOR CMS PANEL

2 INSTALL CONDUITS IN THE SAME TRENCH.

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.



AS-BUILT

Contract No. 07- **183114**

Resident Engineer: **N. MOUSSA**

Completion Date: **06 / 29 / 11**

TABLE I
(FOR REFERENCE ONLY)

CMS Type	Loc No.	Station	Route	Orientation	X (m)	"h"(m)	Elev A (m)	Elev B (m)	QUANTITIES * Furnish (kg)	QUANTITIES * Install (kg)	QUANTITIES * 1524 Dia CIDH Pile (m)
UNBALANCED BUTTERFLY	98	184+03	710	SB	9.8	6.1	100.00	98.5	8582	8582	8
UNBALANCED BUTTERFLY	36	184+37	710	NB	9.8	6.1	100.00	99.4	8582	8582	8

* FOR ADDITIONAL QUANTITIES, SEE SHEETS SQ-3 AND E-109.

4 INSTALL STATE-FURNISHED MODEL 334 CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-123 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.

5 INSTALL STATE-FURNISHED MODEL 500 CMS PANEL ON SIGN STRUCTURE. SEE Std Plan S-101 TO S-104 FOR DETAILS.

6 INSTALL 78C, 6#1. SEE SHEET E-123 FOR WIRING DETAILS.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

8 INSTALL 78C, 12SMFO CABLE AND STATE-FURNISHED CMS CONTROL CABLES (6P18, 24P18).

9 INSTALL 78C, STATE-FURNISHED CMS CONTROL CABLES (6P18, 24P18).

10 ADD 6#1 AND 2#8 CONDUCTORS TO EXISTING CONDUIT.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CHANGEABLE MESSAGE SIGN (LOCATIONS LB114 AND LB115)

SCALE 1:500

E-103

DATE	REVISED BY
5/05	5/05 DATE REVISED

CANDACE FUNG — JACQUELINE TAN — CALCULATED/ DESIGNED BY — CHECKED BY

PROJECT ENGINEER: CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua103.dgn

CU 07388

EA 183111

LAST REVISION 00-00-00 DATE PLOTTED => 29-MAY-2012 TIME PLOTTED => 10:28

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	619	A756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — Exp. 06/30/07 — 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.

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

AS-BUILT

Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 11	RUN 14	RUN 15	RUN 16
12SMFO CABLE	VIDEO / DATA		1		
6#1	CMS PANEL			1	1
2#8	CMS CABINET SERVICE	1		1	
INNERDUCT (SIZE 25)			1		
~~CONDUIT SIZE~~		78	78	78	78

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 EXISTING 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
ADD:
(1) 120 V, 1P, 30 A CB, FOR CMS CONTROLLER CABINET
~~(4) 120 V, 1P, 40 A CB, FOR CMS PANEL~~

2 INSTALL CONDUITS IN THE SAME TRENCH.

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.

REGISTERED PROFESSIONAL ENGINEER — JACQUELINE C. TAN — No. E 15611 — Exp. 12/31/09 — ELECTRICAL — STATE OF CALIFORNIA

Jacqueline Tan

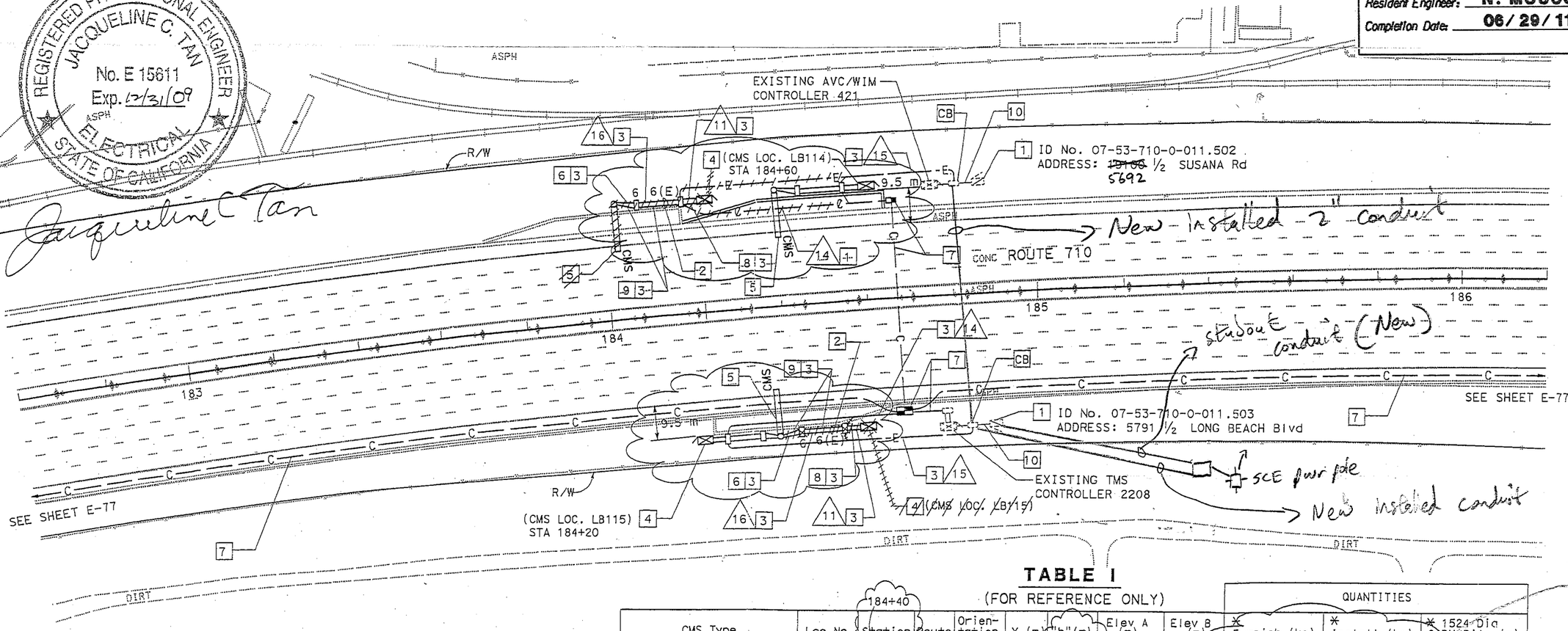


TABLE I
(FOR REFERENCE ONLY)

CMS Type	Loc No.	Station	Route	Orientation	X (m)	"h" (m)	Elev A (m)	Elev B (m)	QUANTITIES * Furnish (kg)	QUANTITIES * Install (kg)	QUANTITIES * 1524 Dia CIDH Pile (m)
UNBALANCED BUTTERFLY	98	~~184+03~~ 184+40	710	SB	9.8	~~6.1~~ 7.3	100.00	98.5	~~8582~~ 8813	~~8582~~ 8813	8
UNBALANCED BUTTERFLY	36	184+37	710	NB	9.8	~~6.1~~ 6.3	100.00	99.4	~~8582~~ 8621	~~8582~~ 8621	8

* FOR ADDITIONAL QUANTITIES, SEE SHEETS SQ-3 AND E-109.

4 INSTALL STATE-FURNISHED MODEL 334 CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-123 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.

5 INSTALL STATE-FURNISHED MODEL 500 CMS PANEL ON SIGN STRUCTURE. SEE Std Plan S-101 TO S-104 FOR DETAILS.

6 INSTALL 78C, 6#1. SEE SHEET E-123 FOR WIRING DETAILS.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

8 INSTALL 78C, 12SMFO CABLE AND STATE-FURNISHED CMS CONTROL CABLES (6P18, 24P18).

9 INSTALL 78C, STATE-FURNISHED CMS CONTROL CABLES (6P18, 24P18).

10 ADD 6#1 AND 2#8 CONDUCTORS TO EXISTING CONDUIT.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CCO
07-183114
CCO #29
Sheet 4 of 5

CHANGEABLE MESSAGE SIGN
(LOCATIONS LB114 AND LB115)

SCALE 1:500

E-103A

DATE	REVISED BY	DATE REVISED
5/05	CANDACE FUNG	5/05
	CALCULATED/ DESIGNED BY	CHECKED BY
	JACQUELINE TAN	

PROJECT ENGINEER — CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans — ITS DEVELOPMENT

LAST REVISION 00-00-00 — DATE PLOTTED => 25-FEB-2008 — TIME PLOTTED => 10:33

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129438
DGN FILE => 718311ua103.dgn

CU 07388 | EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	620	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — EXP 06/30/07 — 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.

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

DATE	REVISED BY	DATE REVISED
5/05	CANDACE FUNG	5/05

CALCULATED/ DESIGNED BY	CHECKED BY
JACQUELINE TAN	

PROJECT ENGINEER
CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN					
		10		11	12	13	17
12SMFO CABLE	VIDEO / DATA	2				2	
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING		1		1		
2#8	CABINET SERVICE			1			2
INNERDUCT (SIZE 25)						2	
CONDUIT SIZE		2-78		78	78	78	78

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.

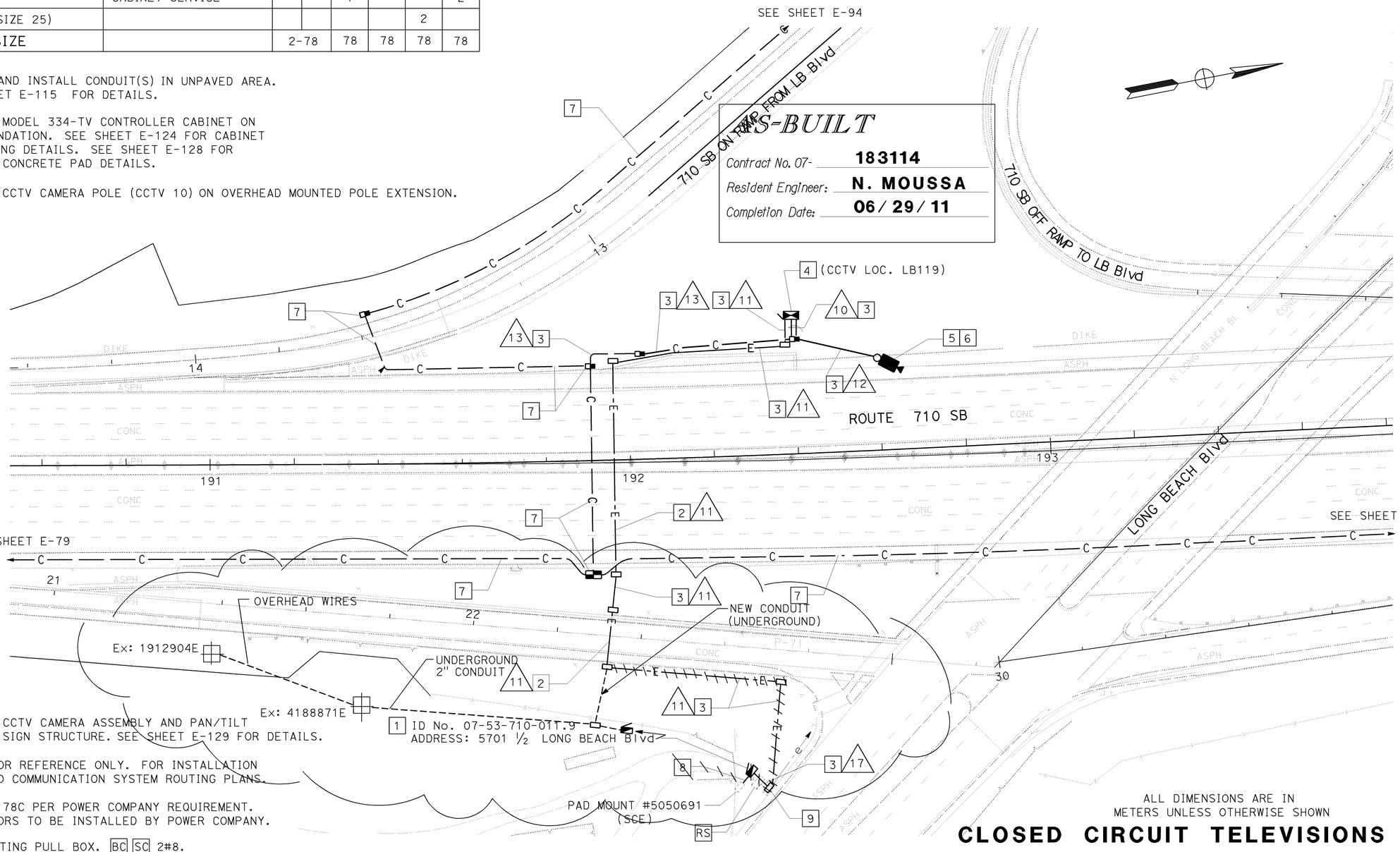
4 INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.

5 INSTALL CCTV CAMERA POLE (CCTV 10) ON OVERHEAD MOUNTED POLE EXTENSION.

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
INSTALL:
(1) 120 V, 1P, 30 A CB, FOR CAMERA CONTROLLER CABINET
(1) 120 V, 1P, 40 A CB, FOR EXISTING RMS

2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.



6 INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON SIGN STRUCTURE. SEE SHEET E-129 FOR DETAILS.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

8 INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.

9 RC EXISTING PULL BOX. BC SC 2#8.

1 ID No. 07-53-710-011.9
ADDRESS: 5701 1/2 LONG BEACH Blvd

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CLOSED CIRCUIT TELEVISIONS CAMERA (LOCATION LB119)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

E-104

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:28

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua104.dgn

CU 07388

EA 183111

AS-BUILT

Contract No. 07- **183114**

Resident Engineer: **N. MOUSSA**

Completion Date: **06/29/11**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	621	756

Caltrans Metric

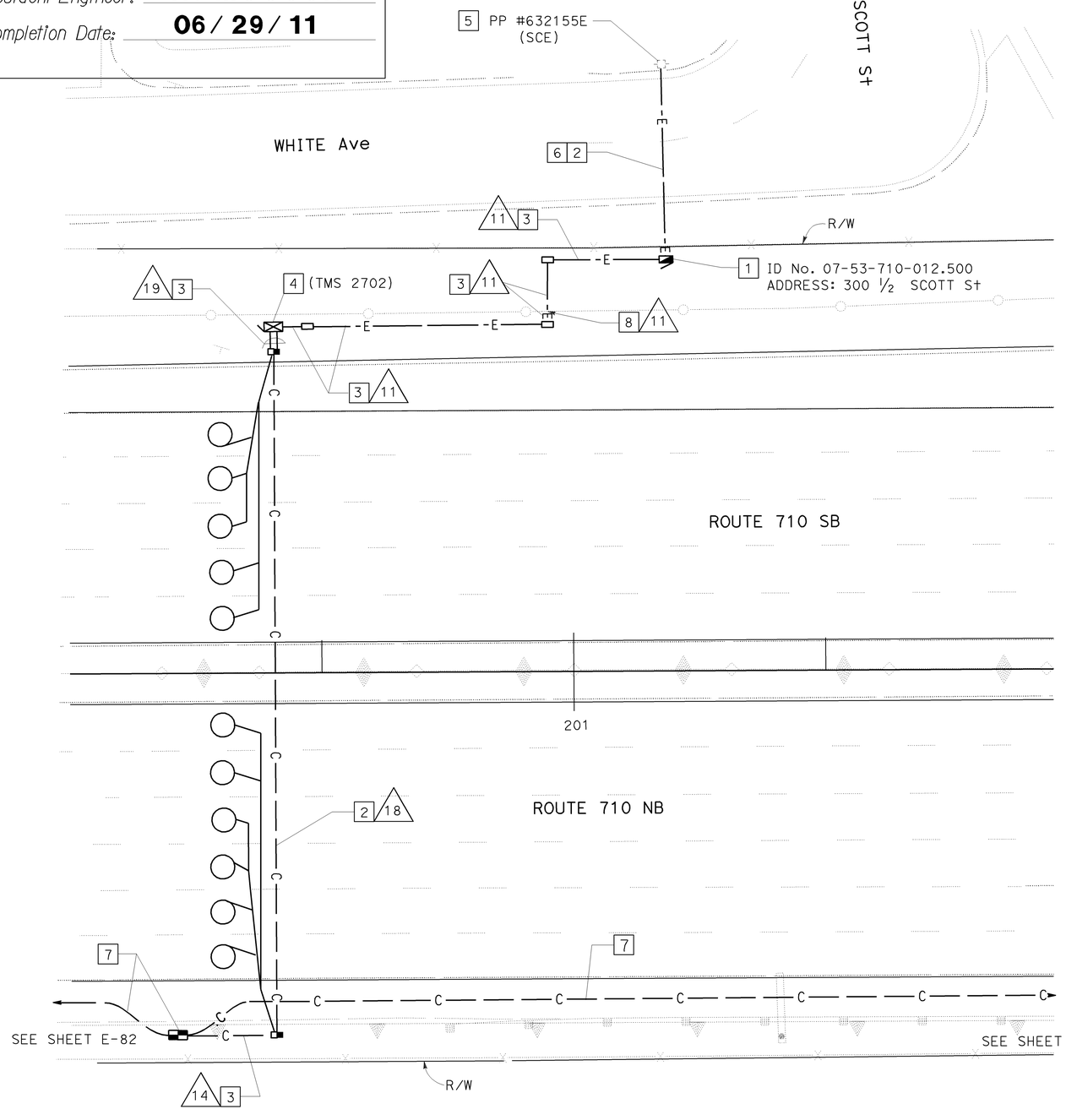
4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 Exp 06/30/07 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

8-21-06
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.

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



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT / CONDUCTOR	FUNCTION	RUN 11	RUN 14	RUN 18		RUN 19	
12SMFO CABLE	VIDEO / DATA		1	1		1	
DLC	DETECTOR LEAD-IN CABLE				11		11
2#8	TMS CABINET SERVICE	1					
INNERDUCT (SIZE 25)			1	1		1	
CONDUIT SIZE		78	78	78		2-78	

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
   INSTALL:
   (1) 120 V, 1P, 30 A CB, FOR TMS CONTROLLER CABINET
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. INSTALL STATE-FURNISHED MODEL 334 CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-122 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
5. INSTALL 78C, TYPE "H" SERVICE RISER ON POWER POLE.
6. INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.
7. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.
8. INSTALL CONDUIT(S) UNDER SOUNDWALL, BETWEEN PILINGS.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

TRAFFIC MONITORING STATION (LOCATION 2702)

SCALE 1:200

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

E-105

REVISED BY	DATE REVISED
CANDACE FUNG	5/05
JACQUELINE TAN	5/05

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT ENGINEER
CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

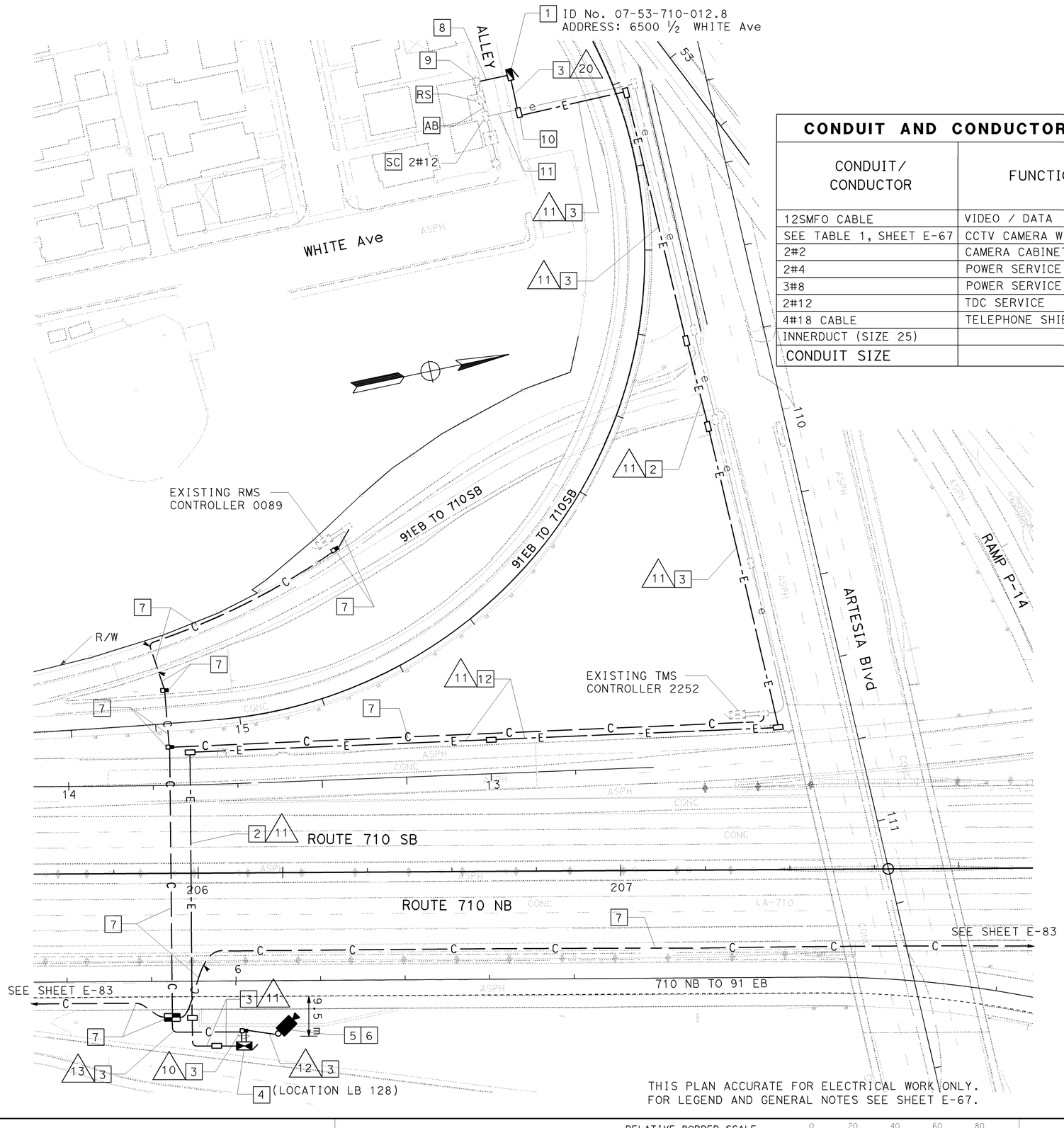
LAST REVISION 00-00-00 | DATE PLOTTED => 29-MAY-2012 | TIME PLOTTED => 10:28

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua105.dgn

CU 07388

EA 183111



THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN					
		10		11	12	13	20
12SMFO CABLE	VIDEO / DATA	2				2	
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING		1		1		
2#2	CAMERA CABINET SERVICE			1			1
2#4	POWER SERVICE						1
3#8	POWER SERVICE						1
2#12	TDC SERVICE						1
4#18 CABLE	TELEPHONE SHIELDED						1
INNERDUCT (SIZE 25)						2	
CONDUIT SIZE		2-78		78	78	78	78

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
INSTALL:
(1) 120 V, 1P, 30 A CB, FOR CAMERA CONTROLLER CABINET
(2) 120 V, 1P, 40 A CB, FOR EXISTING RMS
(1) 120 V, 1P, 40 A CB, FOR EXISTING STREEET LIGHTING
(1) 120 V, 1P, 20 A CB, FOR EXISTING TDC

2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.

4 INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.

5 INSTALL CCTV CAMERA POLE (CCTV 45) ON NEW FOUNDATION.

6 INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

8 INSTALL 78C PER UTILITY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY UTILITY.

9 INSTALL 78C, TYPE "H" SERVICE RISER ON POWER POLE.

10 BC SC 2#4, 3#8, 4#18.

11 ADD 2#12 CONDUCTORS TO EXISTING CONDUIT.

12 INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICATION CONDUIT(S). SEE SHEET E-114 FOR DETAILS.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CLOSED CIRCUIT TELEVISION CAMERA
(LOCATION LB128)

SCALE 1:500

E-106

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	622	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 Exp 06/30/07 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

8-21-06
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.

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

AS-BUILT
Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11

DATE	REVISED BY	DATE	REVISED
5/05	CANDACE FUNG	5/05	JACQUELINE TAN

CALCULATED/ DESIGNED BY
CHECKED BY

PROJECT ENGINEER
CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua106.dgn

CU 07388

EA 183111

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:28

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	623	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 EXP. 06/30/07 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

8-21-06
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.

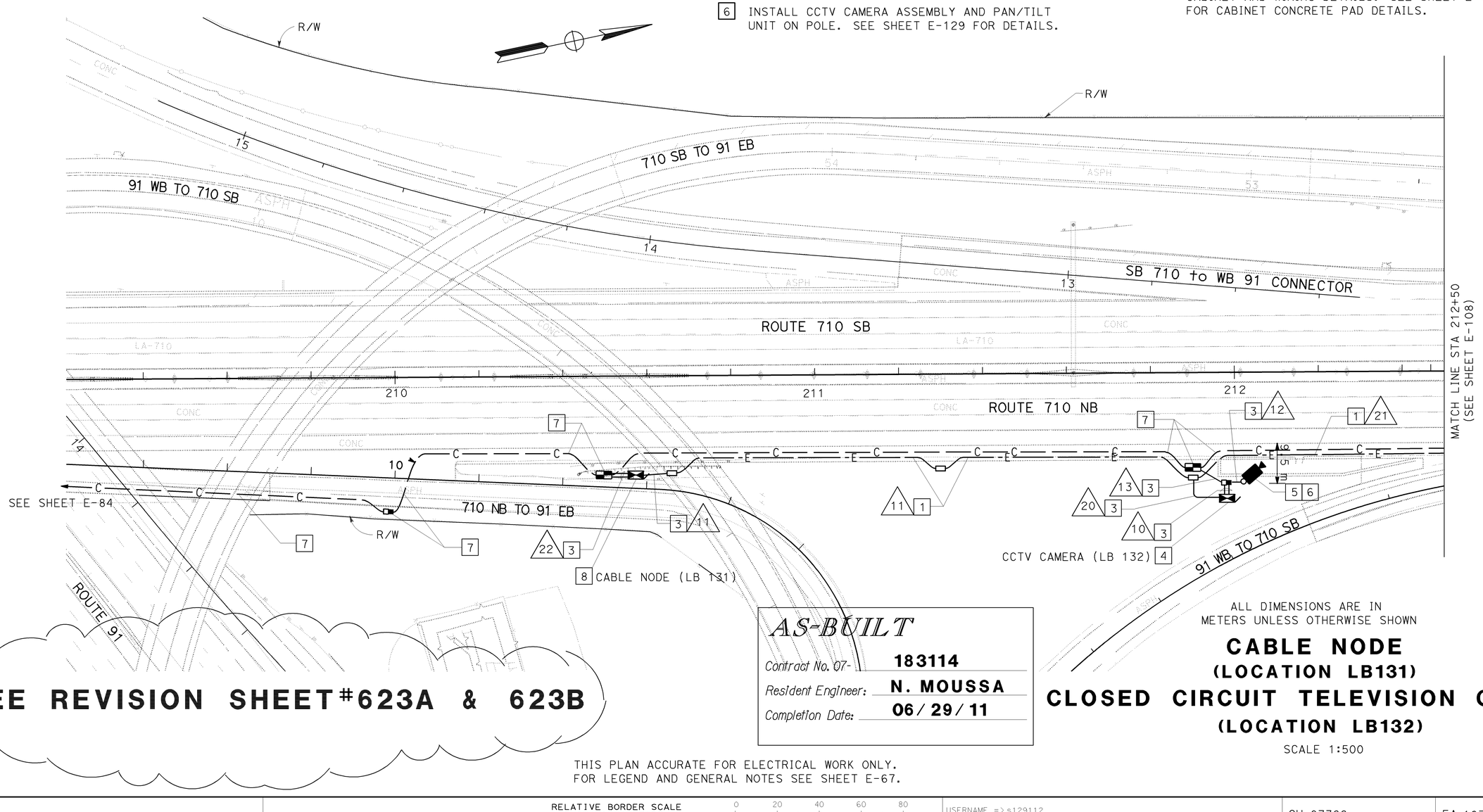
To get to Caltrans web site, go to: http://www.dot.ca.gov

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 10		11	12	13	20	21	22	
48SMFO CABLE	TRUNK CABLE								2	
12SMFO CABLE	VIDEO / DATA	2				2				
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING		1		1					
2#2	CABLE NODE SERVICE			1				1		
2#4	CAMERA CABINET SERVICE						1	1		
INNERDUCT (SIZE 25)						2			4	
CONDUIT SIZE		2-78		78	78	78	78	78	2-103	

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICAITON CONDUIT(S). SEE SHEET E-116 FOR DETAILS.
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
5. INSTALL CCTV CAMERA POLE (CCTV 20) ON NEW FOUNDATION.
6. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.
7. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.
8. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-127 FOR CABLE NODE CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.



SEE REVISION SHEET#623A & 623B

AS-BUILT

Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CABLE NODE (LOCATION LB131)

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB132)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

E-107

DATE	REVISED BY	CALCULATED/ DESIGNED BY	CANDACE FUNG
5/05	5/05 DATE REVISED	CHECKED BY	JACQUELINE TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT
PROJECT ENGINEER
CANDACE FUNG

LAST REVISION 00-00-00 DATE PLOTTED => 29-MAY-2012 TIME PLOTTED => 10:28

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ga107.dgn

CU 07388

EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	623	756

Caltrans Metric

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CANDACE FUNG No. E16936 Exp. 06/30/07 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.

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

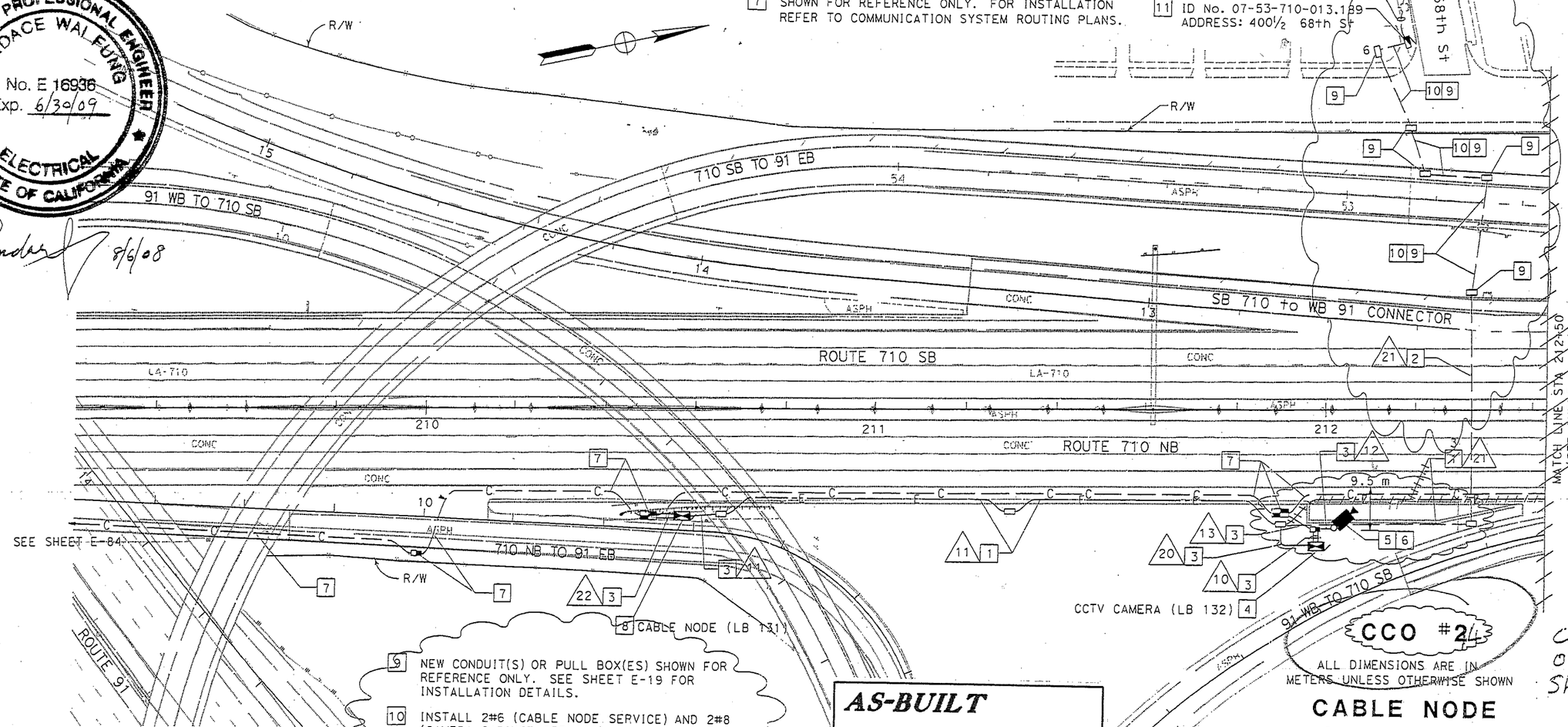
CONDUIT/ CONDUCTOR	FUNCTION	RUN 10	11	12	13	20	21	22
48SMFO CABLE	TRUNK CABLE							2
12SMFO CABLE	VIDEO / DATA	2			2			
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING	1		1				
2#~~2~~ 6	CABLE NODE SERVICE		1				1	
2#~~4~~ 8	CAMERA CABINET SERVICE					1	1	
INNERDUCT (SIZE 25)					2			4
CONDUIT SIZE		2-78	78	78	78	78	78	2-103

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICAITON CONDUIT(S). SEE SHEET E-116 FOR DETAILS.
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
5. INSTALL CCTV CAMERA POLE (CCTV 20) ON NEW FOUNDATION.
6. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.
7. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.
8. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-127 FOR CABLE NODE CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
9. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-19 FOR INSTALLATION DETAILS.
10. INSTALL 2#6 (CABLE NODE SERVICE) AND 2#8 (CAMERA CABINET SERVICE).
11. INSTALL 2-30A CIRCUIT BREAKERS FOR CABLE NODE AND CAMERA CABINETS. NEW SERVICE EQUIPMENT ENCLOSURE SHOWN FOR REFERENCE ONLY. SEE SHEET E-19 FOR INSTALLATION DETAILS.

REGISTERED PROFESSIONAL ENGINEER CANDACE WAI FUNG No. E 16936 Exp. 6/30/09 ELECTRICAL STATE OF CALIFORNIA

Candace 8/6/08



11 ID No. 07-53-710-013.189
ADDRESS: 400½ 68th St

CCO #24

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CCO #44
07-183114
Sheet 2 of 4

AS-BUILT
Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

CABLE NODE
(LOCATION LB131)
CLOSED CIRCUIT TELEVISION CAMERA
(LOCATION LB132)

SCALE 1:500

E-107A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

PROJECT ENGINEER: CANDACE FUNG
CALCULATED/DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
DATE 5/05 REVISED BY
5/05 DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 8/6/2008
TIME PLOTTED => 1:05:50 PM

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s113750
DGN FILE => ...

CU 07388
EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	710	15.1/29.6	623	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 Exp. 06/30/07 ELECTRICAL STATE OF CALIFORNIA

8-21-06
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.

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

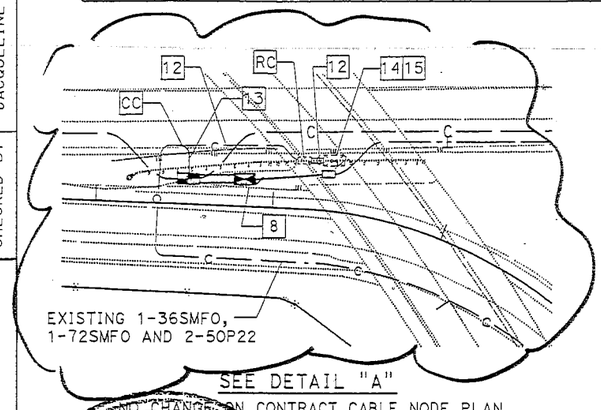
CONDUIT/ CONDUCTOR	FUNCTION	RUN 10	11	12	13	20	21	22
48SMFO CABLE	TRUNK CABLE							2
12SMFO CABLE	VIDEO / DATA	2			2			
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING		1	1				
2#6	CABLE NODE SERVICE		1				1	
2#8	CAMERA CABINET SERVICE					1	1	
INNERDUCT (SIZE 25)					2			4
CONDUIT SIZE		2-78	78	78	78	78	78	2-103

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICAITON CONDUIT(S). SEE SHEET E-116 FOR DETAILS.
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
5. INSTALL CCTV CAMERA POLE (CCTV 20) ON NEW FOUNDATION.
6. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.
7. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.
8. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-127 FOR CABLE NODE CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.

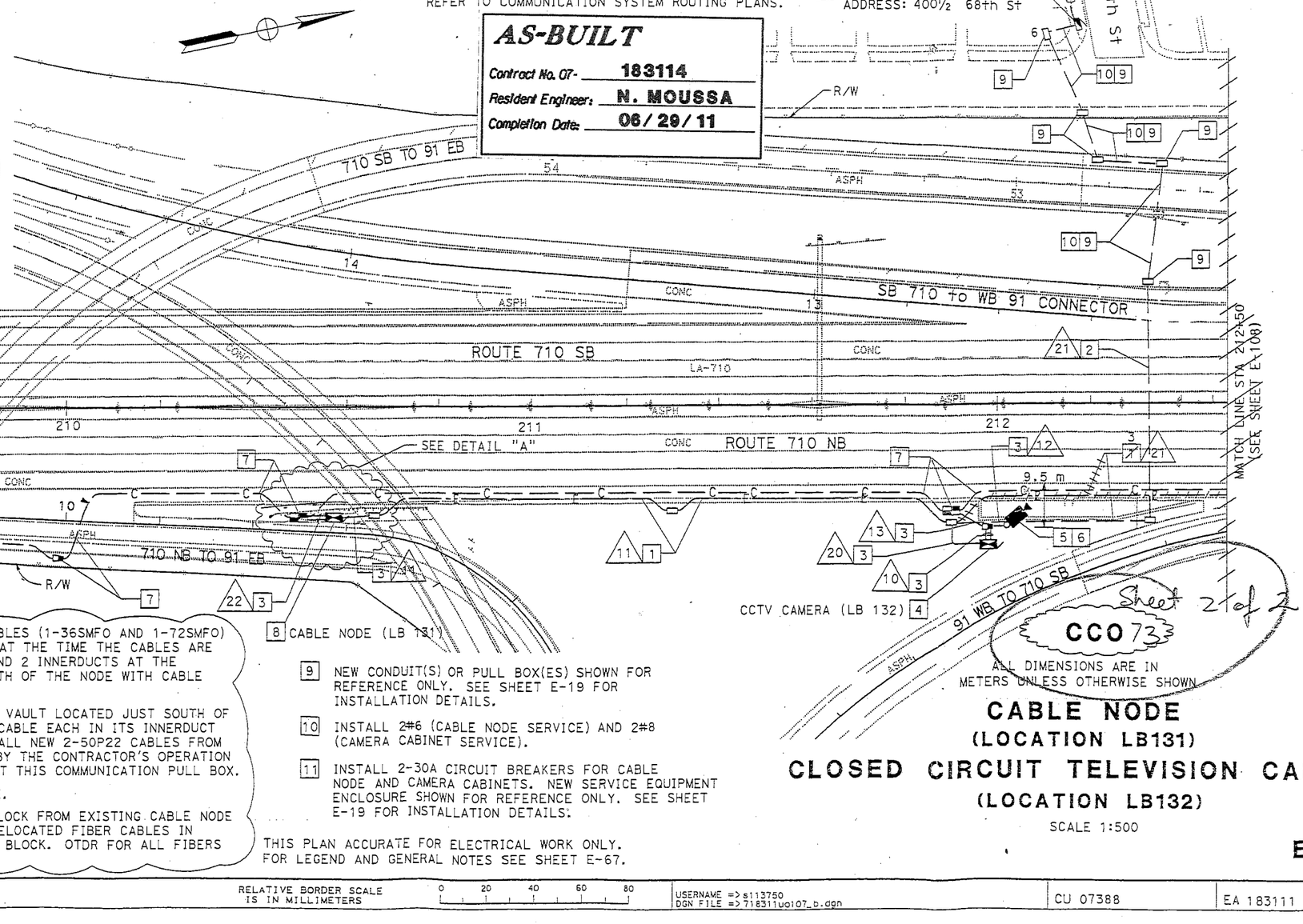
11 ID No. 07-53-710-013.189
ADDRESS: 400½ 68th St

AS-BUILT
Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11



SEE DETAIL "A"

NO CHANGE ON CONTRACT CABLE NODE PLAN



12 AT THE EXISTING CABLE NODE, CUT TWO FIBER OPTIC CABLES (1-36SMFO AND 1-72SMFO) AND 2-50P22 CABLES. THE ENGINEER WILL BE PRESENT AT THE TIME THE CABLES ARE BEING CUT. PROTECT AND PULL OUT EXISTING CABLES AND 2 INNERDUCTS AT THE NEAREST COMMUNICATION PULL BOX LOCATED TO THE SOUTH OF THE NODE WITH CABLE LUBRICANT AND WITH CARE.

13 CC EXISTING 2-103C WITH NEW CONDUITS TO NEW SPLICE VAULT LOCATED JUST SOUTH OF THE EXISTING CABLE NODE. REINSTALL EXISTING FIBER CABLE EACH IN ITS INNERDUCT ALL THE WAY TO THE NEW CABLE NODE IN 1-103C. INSTALL NEW 2-50P22 CABLES FROM THE NEAREST COMMUNICATION PULL BOX DUE TO DAMAGE BY THE CONTRACTOR'S OPERATION EARLIER. SPLICE NEW 2-50P22 WITH EXISTING CABLES AT THIS COMMUNICATION PULL BOX.

14 REMOVE EXISTING CABLE NODE AND FOUNDATION COMPLETE.

15 REMOVE AND REINSTALL EXISTING FDU'S AND TERMINAL BLOCK FROM EXISTING CABLE NODE TO NEW CABLE NODE. PERFORM FUSION SPLICE ON THE RELOCATED FIBER CABLES IN CABLE TRAYS. TERMINATE 2-50P22 CABLES ON TERMINAL BLOCK. OTDR FOR ALL FIBERS AND PERFORM CONTINUITY TEST FOR COPPER CABLES.

8 CABLE NODE (LB 131)

9 NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-19 FOR INSTALLATION DETAILS.

10 INSTALL 2#6 (CABLE NODE SERVICE) AND 2#8 (CAMERA CABINET SERVICE).

11 INSTALL 2-30A CIRCUIT BREAKERS FOR CABLE NODE AND CAMERA CABINETS. NEW SERVICE EQUIPMENT ENCLOSURE SHOWN FOR REFERENCE ONLY. SEE SHEET E-19 FOR INSTALLATION DETAILS.

CCTV CAMERA (LB 132) 4

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

Sheet 21 of 22

CCO 73

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CABLE NODE (LOCATION LB131)

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB132)

SCALE 1:500

E-107 B

REGISTERED PROFESSIONAL ENGINEER CANDACE WAI FUNG No. E16936 Exp. 6/30/11 ELECTRICAL STATE OF CALIFORNIA

9/28/09

PROJECT ENGINEER: CANDACE FUNG
CALCULATED/ DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
DATE: 5/05
REVISED BY: 5/05
DATE REVISED:

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s113750
DGN FILE => 718311uo107_b.dgn

CU 07388 EA 183111

LAST REVISION 00-00-00 DATE PLOTTED => 22-SEP-2009 TIME PLOTTED => 08:50

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	624	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 Exp. 06/30/07 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

8-21-06
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.

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 21	RUN 23
2#2	CABLE NODE SERVICE	1	1
2#4	CAMERA CABINET SERVICE	1	1
2#8	RMS CABINET SERVICE		1
CONDUIT SIZE		78	78

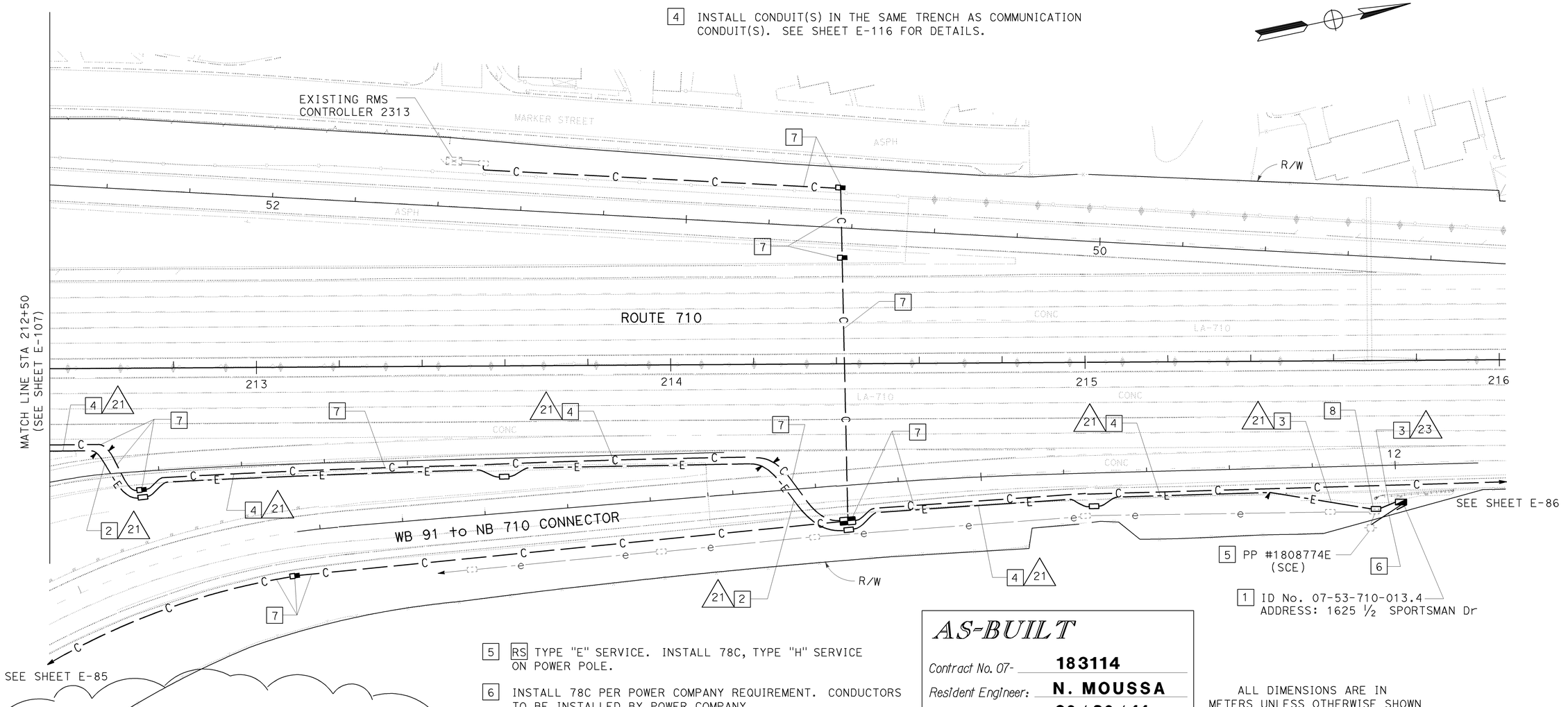
CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
INSTALL:
(1) 120 V, 1P, 30 A CB, FOR CAMERA CONTROLLER CABINET
(1) 120 V, 1P, 30 A CB, FOR CABLE NODE CABINET
(1) 120 V, 1P, 40 A CB, FOR EXISTING RMS

2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.

4 INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICATION CONDUIT(S). SEE SHEET E-116 FOR DETAILS.



5 RS TYPE "E" SERVICE. INSTALL 78C, TYPE "H" SERVICE ON POWER POLE.

6 INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

8 RC EXISTING PULL BOX. BC SC 2#8.

SEE REVISION SHEET #624A

AS-BUILT

Contract No. 07- **183114**
Resident Engineer: **N. MOUSSA**
Completion Date: **06/29/11**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CABLE NODE (LOCATION LB131)

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB132)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

E-108

DATE	REVISED BY
5/05	DATE REVISED
CANDACE FUNG	JACQUELINE TAN
CALCULATED/ DESIGNED BY	CHECKED BY

PROJECT ENGINEER: CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED => 29-MAY-2012 TIME PLOTTED => 10:28

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua108.dgn

CU 07388

EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	710	15.1/29.6	624	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — EXP. 06/30/07 — 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.

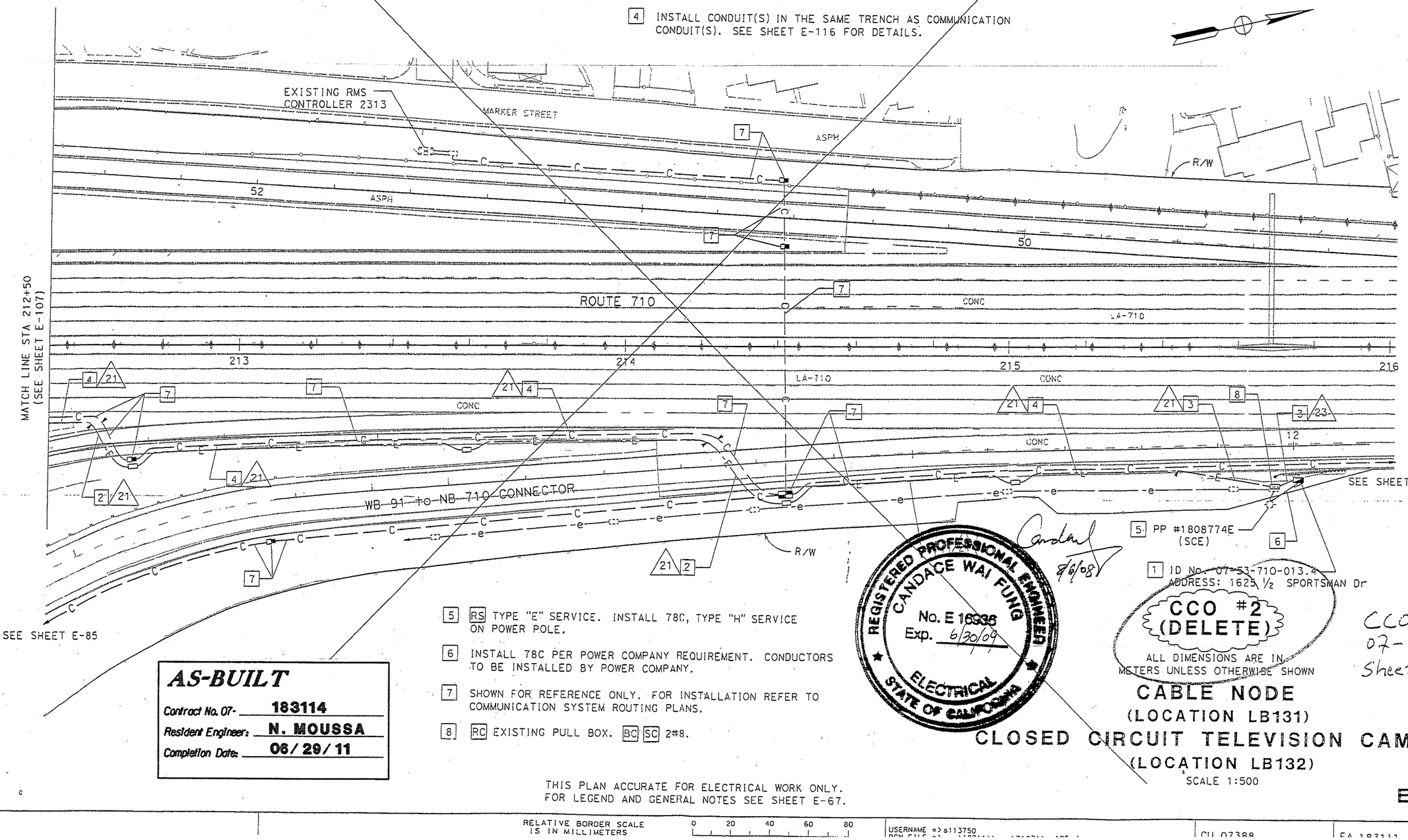
To get to Caltrans web site, go to: http://www.dot.ca.gov

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 21	RUN 23
2#2	CABLE NODE SERVICE	1	1
2#4	CAMERA CABINET SERVICE	1	1
2#8	RMS CABINET SERVICE		1
CONDUIT SIZE		78	78

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
   INSTALL:
   (1) 120 V, 1P, 30 A CB, FOR CAMERA CONTROLLER CABINET
   (1) 120 V, 1P, 30 A CB, FOR CABLE NODE CABINET
   (1) 120 V, 1P, 40 A CB, FOR EXISTING RMS
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICATION CONDUIT(S). SEE SHEET E-116 FOR DETAILS.



5. RS TYPE "E" SERVICE. INSTALL 78C, TYPE "H" SERVICE ON POWER POLE.
6. INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.
7. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.
8. RC EXISTING PULL BOX. BC SC 2#8.

REGISTERED PROFESSIONAL ENGINEER — CANDACE WAI FUNG — No. E 16936 — Exp. 6/30/09 — ELECTRICAL — STATE OF CALIFORNIA

8/6/08

CCO #2 (DELETE)
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CCO#44
07-183114
Sheet 3 of 4

AS-BUILT
Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11

CABLE NODE (LOCATION LB131)
CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB132)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

E-108A

DATE	REVISED BY	DATE REVISED
5/05	CANDACE FUNG	5/05

CALCULATED/ DESIGNED BY: JACQUELINE TAN
CHECKED BY:

PROJECT ENGINEER: CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s113750

LAST REVISION 00-00-00 | DATE PLOTTED => 8/6/2008 | TIME PLOTTED => 11:04:06 PM

CU 07388 | EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	710	15.1/29.6	625	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — Exp. 06/30/07 — 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.

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 8	9		10		11	12	16	24	25	26	
12SMFO CABLE	VIDEO / DATA	3	2		2							1	
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING				1			1					
6#1	CMS PANEL								1	1	1		1
2#8	CABINET SERVICE			1		1	1			3	2		1
INNERDUCT (SIZE 25)		3											
CONDUIT SIZE		78	2-78		2-78		78	78	78	78	78	2-78	

SEE REVISION SHEET #625A

TABLE I
(FOR REFERENCE ONLY)

CMS Type	Loc. No.	Station	Route	Orien-tation	X (m)	"h"(m)	Elev. A (m)	Elev. B (m)	QUANTITIES * Furnish (kg.)	* Install (kg.)	* 1524 Dia. CIDH Pile (m)
UNBALANCED BUTTERFLY	98	233+47	710	NB	9.8	4.9	100.00	101.5	8351	8351	8

* FOR ADDITIONAL QUANTITIES, SEE SHEETS SQ3 AND E-103

AS-BUILT
Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
INSTALL:
(1) 120 V, 1P, 30 A CB, FOR CAMERA CONTROLLER CABINET
(1) 120 V, 1P, 30 A CB, FOR CMS CONTROLLER CABINET
(4) 120 V, 1P, 40 A CB, FOR CMS PANEL
(1) 120 V, 1P, 40 A CB, FOR EXISTING RMS

2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.

4 INSTALL CONDUIT(S) IN THE SAME TRENCH.

5 RS TYPE "E" SERVICE. INSTALL 78C, TYPE "H" SERVICE RISER ON POWER POLE.

6 INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

8 RC EXISTING PULL BOX. BC SC 2#8.

9 INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.

10 INSTALL CCTV CAMERA POLE (CCTV 35) ON NEW FOUNDATION.

11 INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.

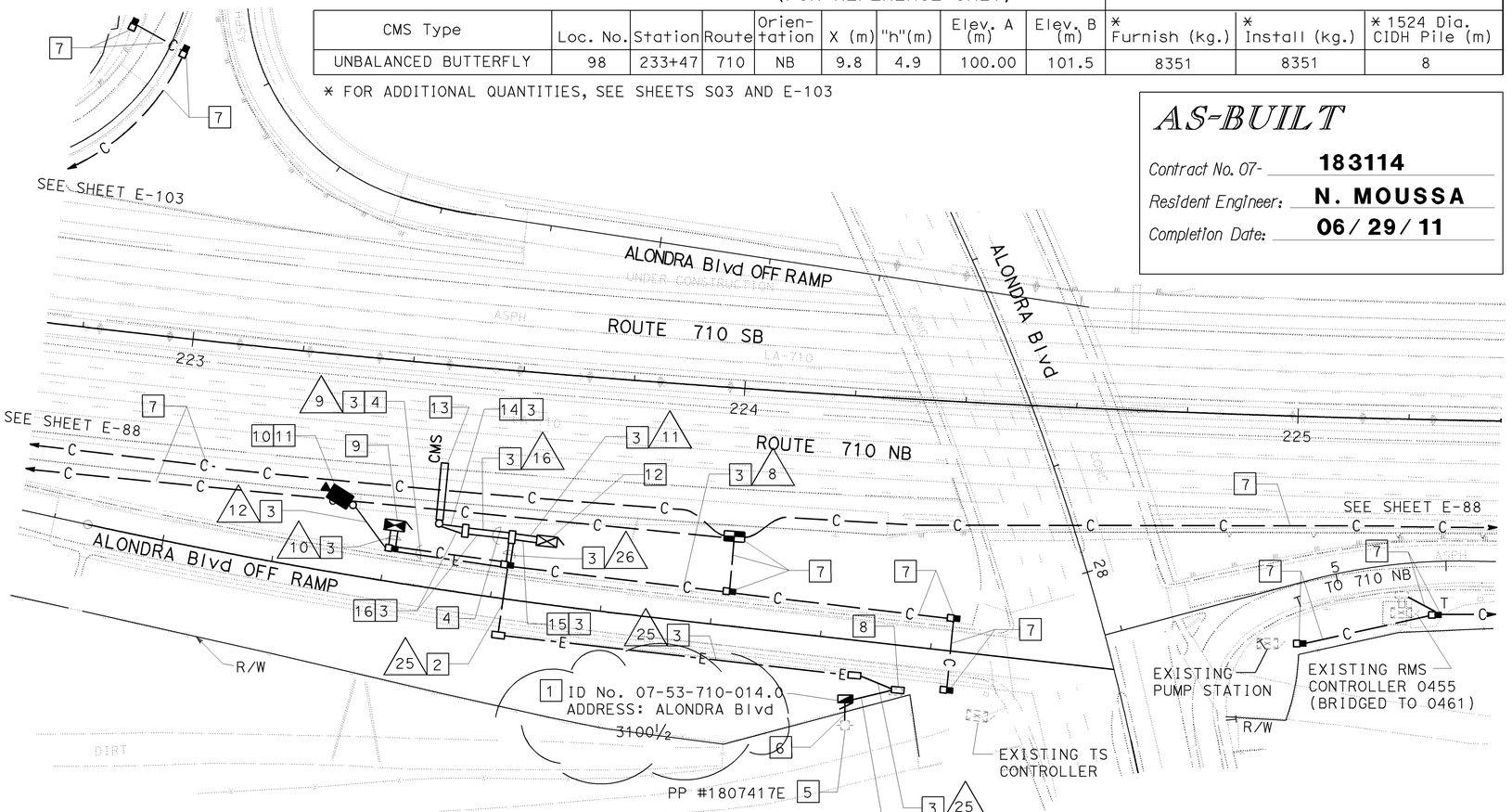
12 INSTALL STATE-FURNISHED MODEL 334 CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-123 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.

13 INSTALL STATE-FURNISHED MODEL 500 CMS PANEL ON SIGN STRUCTURE. SEE Std PLAN S-101-104 FOR DETAILS.

14 INSTALL 78C, 6#1. SEE SHEET E-123 FOR WIRING DETAILS.

15 INSTALL 78C, 12SMFO CABLE AND STATE-FURNISHED CMS CONTROL CABLES (6P18, 24P18).

16 INSTALL 78C, STATE-FURNISHED CMS CONTROL CABLES (6P18, 24P18).



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB139) CHANGEABLE MESSAGE SIGN (LOCATION LB139)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

E-109

CALCULATED/ DESIGNED BY	CANDACE FUNG	DATE 5/05	REVISED BY
CHECKED BY	JACQUELINE TAN	5/05	DATE REVISED
PROJECT ENGINEER	CANDACE FUNG		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED = 29-MAY-2012 TIME PLOTTED = 10:29

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua109.dgn

CU 07388
EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	625	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — Exp. 06/30/07 — 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.

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

Caltrans Metric

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 8	9		10		11	12	16	24	25	26	
12SMFO CABLE	VIDEO / DATA	3	2		2							1	
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING				1			1					
6#1	CMS PANEL								1	1	1		1
2#8	CABINET SERVICE			1		1	1			3	2		1
INNERDUCT (SIZE 25)		3											
CONDUIT SIZE		78	2-78		2-78		78	78	78	78	78	2-78	

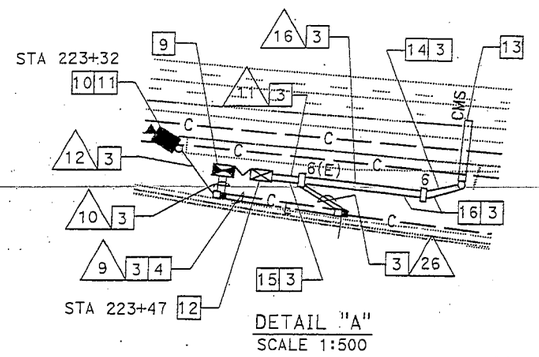


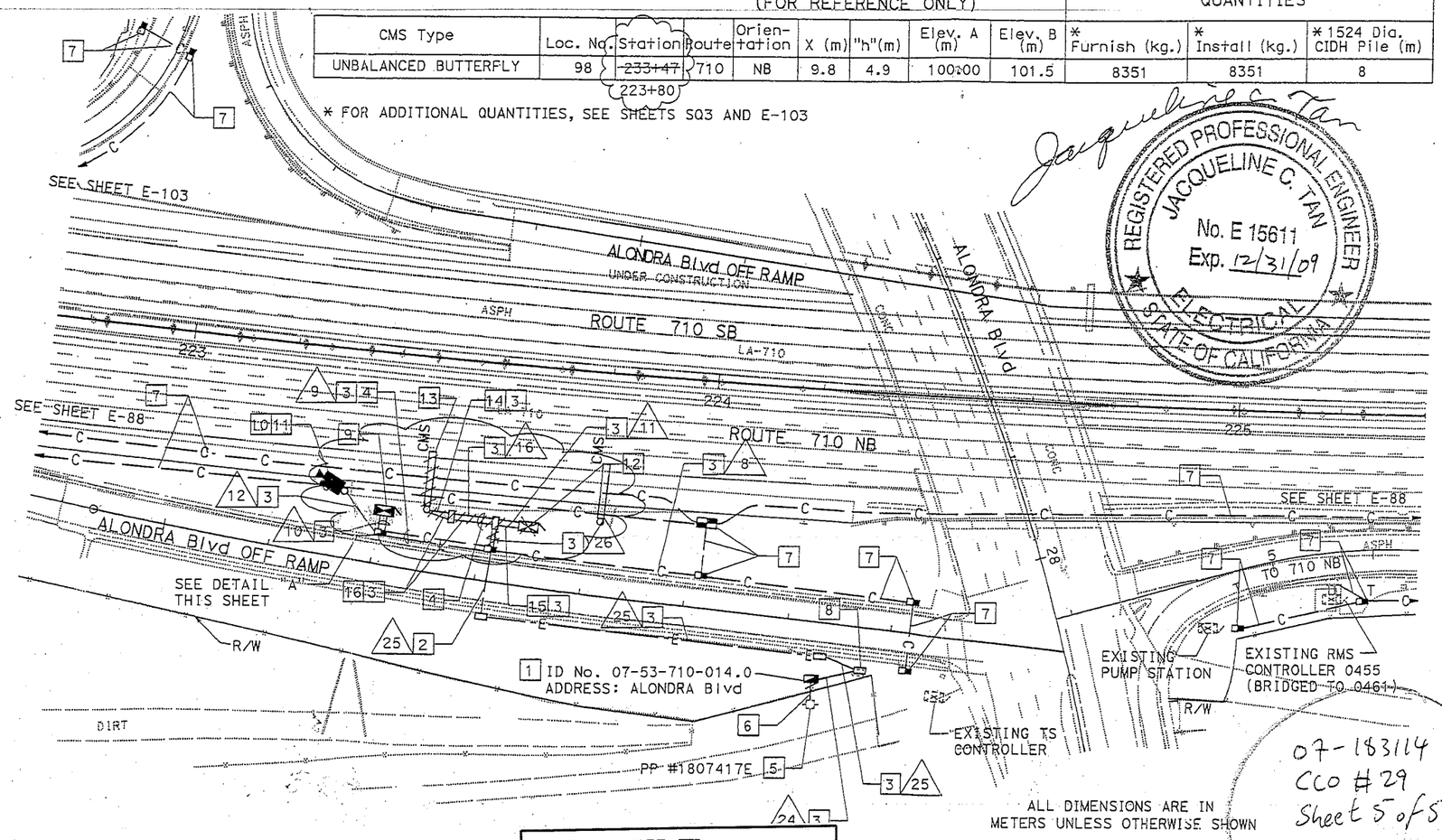
TABLE I
(FOR REFERENCE ONLY)

CMS Type	Loc. No.	Station	Route	Orientation	X (m)	"h"(m)	Elev. A (m)	Elev. B (m)	QUANTITIES * Furnish (kg.)	* Install (kg.)	* 1524 Dia. CIDH Pile (m)
UNBALANCED BUTTERFLY	98	~~233+47~~ 223+80	710	NB	9.8	4.9	100.00	101.5	8351	8351	8

* FOR ADDITIONAL QUANTITIES, SEE SHEETS SQ3 AND E-103

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
   INSTALL:
   (1) 120 V, 1P, 30 A CB, FOR CAMERA CONTROLLER CABINET
   (1) 120 V, 1P, 30 A CB, FOR CMS CONTROLLER CABINET
   (4) 120 V, 1P, 40 A CB, FOR CMS PANEL
   (1) 120 V, 1P, 40 A CB, FOR EXISTING RMS
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. INSTALL CONDUIT(S) IN THE SAME TRENCH.
5. RS TYPE "E" SERVICE. INSTALL 78C, TYPE "H" SERVICE RISER ON POWER POLE.
6. INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.
7. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.
8. RC EXISTING PULL BOX. BC SC 2#8.
9. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
10. INSTALL CCTV CAMERA POLE (CCTV 35) ON NEW FOUNDATION.
11. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.
12. INSTALL STATE-FURNISHED MODEL 334 CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-123 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
13. INSTALL STATE-FURNISHED MODEL 500 CMS PANEL ON SIGN STRUCTURE. SEE Std PLAN S-101-104 FOR DETAILS.
14. INSTALL 78C, 6#1. SEE SHEET E-123 FOR WIRING DETAILS.
15. INSTALL 78C, 12SMFO CABLE AND STATE-FURNISHED CMS CONTROL CABLES (6P18, 24P18).
16. INSTALL 78C, STATE-FURNISHED CMS CONTROL CABLES (6P18, 24P18).



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

AS-BUILT
Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11

07-183114
CCO #29
Sheet 5 of 5

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB139)
CHANGEABLE MESSAGE SIGN (LOCATION LB139)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WOR... FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

E-109A

REGISTERED PROFESSIONAL ENGINEER — JACQUELINE C. TAN — No. E 15611 — Exp. 12/31/09 — ELECTRICAL — STATE OF CALIFORNIA

DESIGNED BY	DATE	REVISED BY	DATE REVISED
CANDACE FUNG	5/05	JACQUELINE TAN	5/05
CALCULATED/ DESIGNED BY		CHECKED BY	
PROJECT ENGINEER: CANDACE FUNG			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00 | DATE PLOTTED => 25-FEB-2008 | TIME PLOTTED => 10:37

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

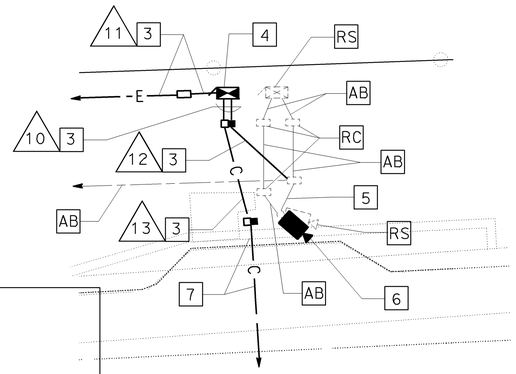
USERNAME => s129438
DGN FILE => 718311ua109.dgn

CU 07388 | EA 183111

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240 V, 200 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
   EXISTING:
   (4) 120 V, 1P, 80 A CB, FOR CMS PANEL
   (1) 120 V, 1P, 30 A CB, FOR CMS CMS CONTROLLER CABINET
   (1) 120 V, 1P, 20 A CB, FOR TDC
   (1) 120 V, 1P, 20 A CB, FOR IRRIGATION
   ADD:
   (1) 120 V, 1P, 30 A CB, FOR CAMERA CONTROLLER CABINET
2. ADD 2#8 CONDUCTORS TO EXISTING CONDUIT.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.
5. ADD CCTV CAMERA WIRING TO EXISTING CONDUIT.
6. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON EXISTING POLE. SEE SHEET E-129 FOR DETAILS.

AS-BUILT
Contract No. 07- **183114**
Resident Engineer: **N. MOUSSA**
Completion Date: **06/29/11**



DETAIL A
SCALE 1:200

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	710	15.1/29.6	626	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

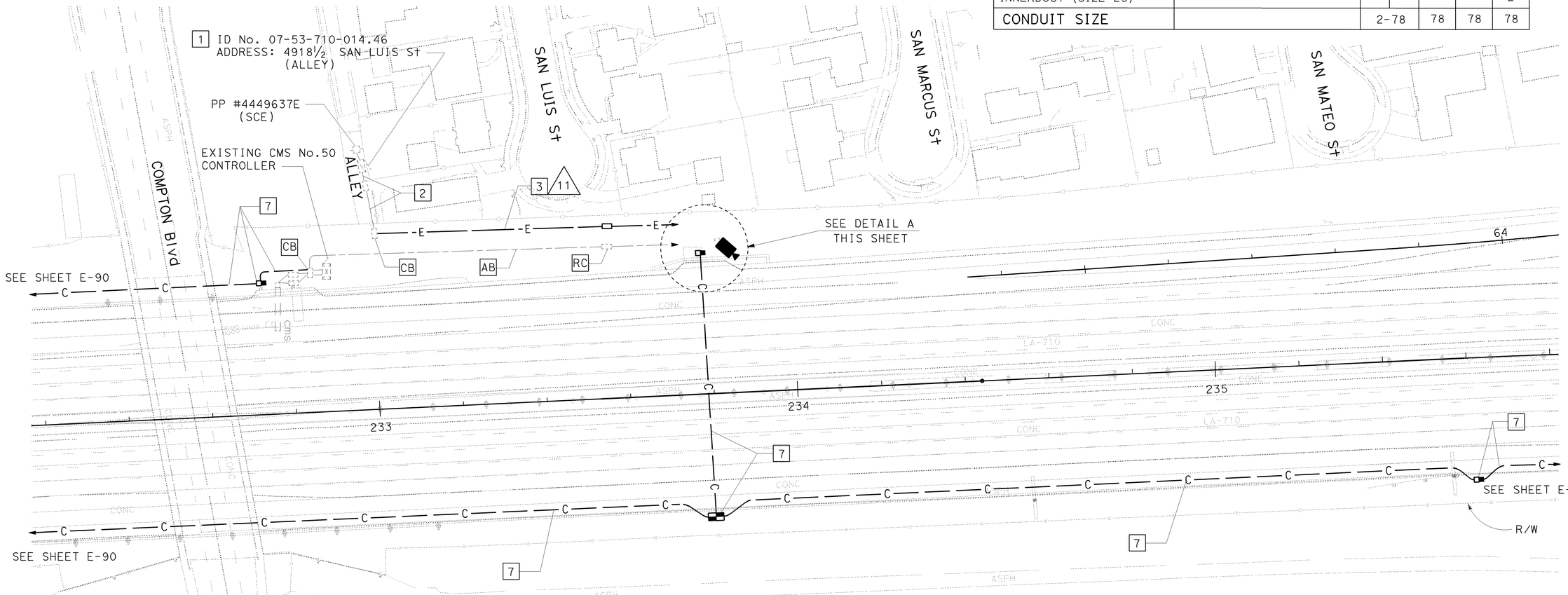
REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — EXP 06/30/07 — ELECTRICAL — STATE OF CALIFORNIA

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.

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 10		RUN 11	RUN 12	RUN 13
12SMFO CABLE	VIDEO / DATA	2				2
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING		1		1	
2#8	CAMERA CABINET SERVICE			1		
INNERDUCT (SIZE 25)						2
CONDUIT SIZE		2-78		78	78	78



7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB145)

SCALE 1:500

E-110

DATE	REVISED BY
5/05	DATE REVISED
	CANDACE FUNG
	JACQUELINE TAN
	CALCULATED/ DESIGNED BY
	CHECKED BY

PROJECT ENGINEER: CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:29

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua110.dgn

CU 07388

EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	627	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG
No. E16936
Exp 06/30/07
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

8-21-06
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.

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

DATE	REVISED BY	DATE REVISED
5/05	CANDACE FUNG	5/05
CALCULATED/ DESIGNED BY		CHECKED BY
	JACQUELINE TAN	

PROJECT ENGINEER
CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		10	11	12	27	28		29	
48SMFO CABLE	VIDEO DISTRIBUTION				2			2	
48SMFO CABLE	DATA DISTRIBUTION				2	2			
12SMFO CABLE	VIDEO / DATA				2		2		2
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING			1				1	
2#4	CABINET SERVICE	2	1						
INNERDUCT (SIZE 25)					4				
CONDUIT SIZE		78	78	78	103	2-78		2-78	

AS-BUILT

Contract No. 07- **183114**

Resident Engineer: **N. MOUSSA**

Completion Date: **06/29/11**

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 EXISTING 120/240 V, 200 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
EXISTING:
(1) 120 V, 1P, 40 A CB, FOR TMS
(2) 240 V, 2P, 40 A CB, FOR RMS 1 & 2
(1) 120 V, 1P, 20 A CB, FOR TDC
(1) 120 V, 1P, 40 A CB, NOT MARKED
ADD:
(1) 120 V, 1P, 30 A CB, FOR VIDEO NODE CABINET
(1) 120 V, 1P, 30 A CB, FOR DATA NODE CABINET

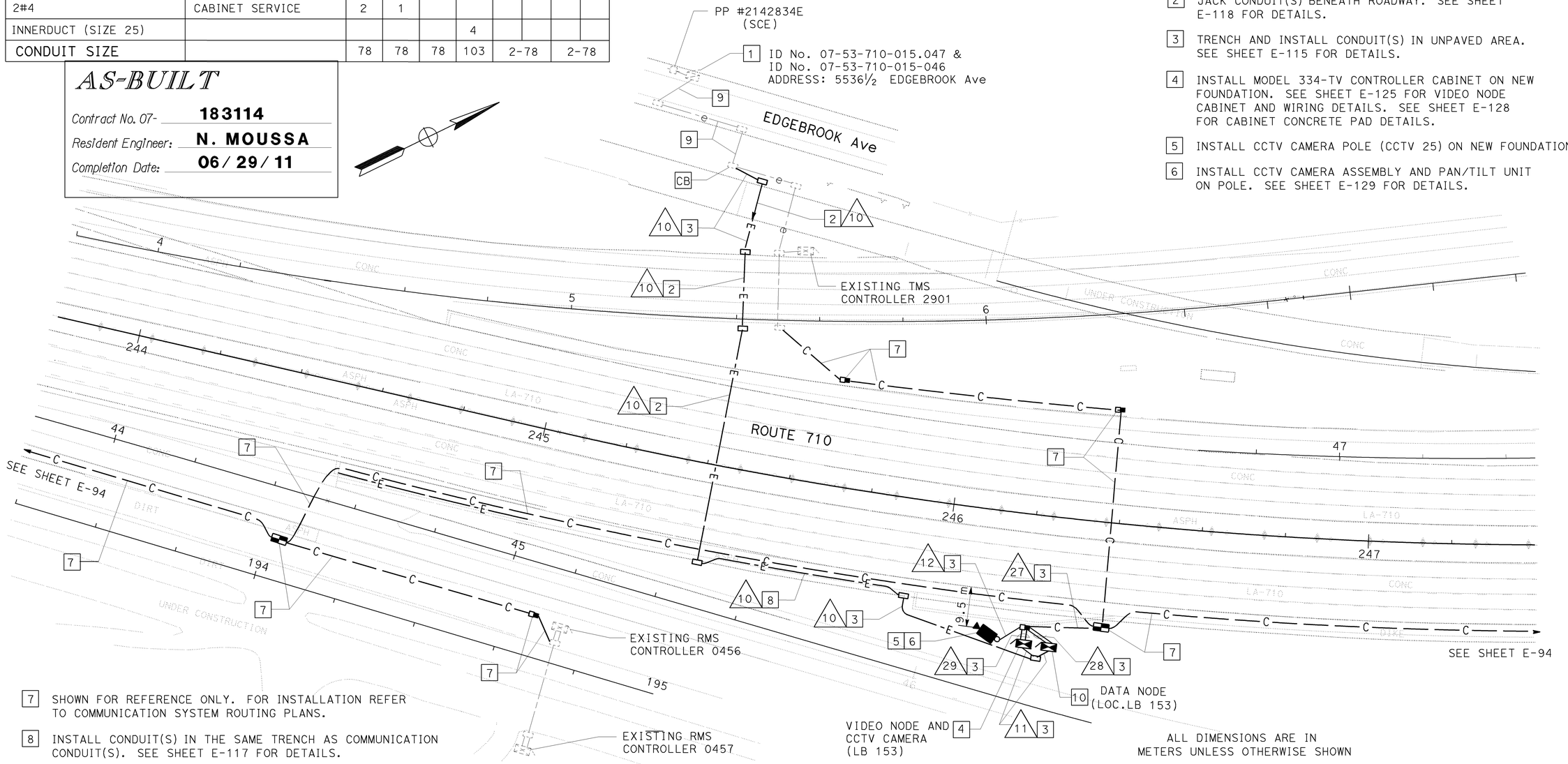
2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-115 FOR DETAILS.

4 INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-125 FOR VIDEO NODE CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.

5 INSTALL CCTV CAMERA POLE (CCTV 25) ON NEW FOUNDATION.

6 INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.



7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

8 INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICATION CONDUIT(S). SEE SHEET E-117 FOR DETAILS.

9 ADD 4#4 CONDUCTORS TO EXISTING CONDUIT.

10 INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-126 FOR DATA NODE CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

CLOSED CIRCUIT TELEVISION CAMERA, VIDEO NODE AND DATA NODE (LOCATION LB153)

SCALE 1:500

E-111

LAST REVISION 00-00-00
DATE PLOTTED => 29-MAY-2012
TIME PLOTTED => 10:29

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua111.dgn

CU 07388

EA 183111

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	628	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 Exp. 06/30/07 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

8-21-06
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.

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN		
		11	22	
48SMFO CABLE	TRUNK CABLE		2	
2#6	CABLE NODE CABINET SERVICE	1		
INNERDUCT (SIZE 25)			4	
CONDUIT SIZE		78	2-103	

AS-BUILT

Contract No. 07- **183114**
Resident Engineer: **N. MOUSSA**
Completion Date: **06/29/11**

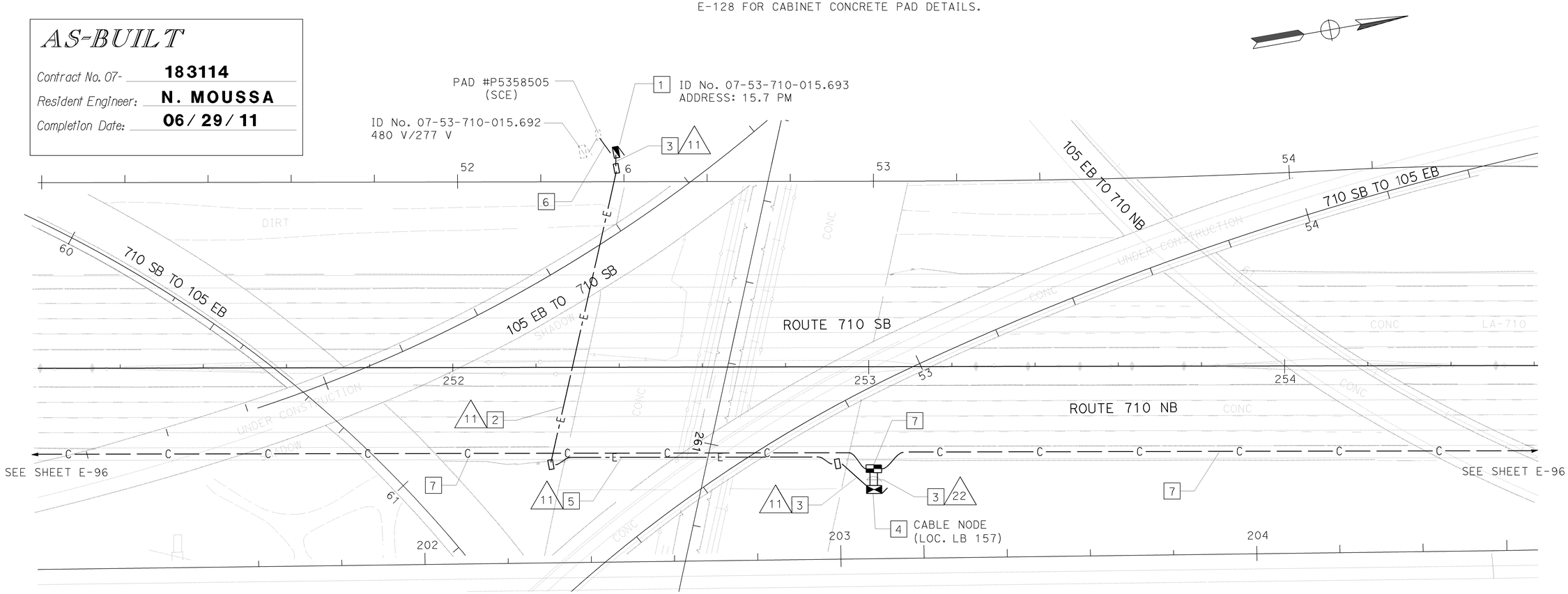
CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
INSTALL:
(1) 120 V, 1P, 30 A CB, FOR CABLE NODE CABINET

2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-116 FOR DETAILS.

4 INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-127 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.



5 INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICATION CONDUIT(S). SEE SHEET E-116 FOR DETAILS.

6 INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

SEE REVISION SHEET#628A

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CABLE NODE (LOCATION LB157)

SCALE 1:500

E-112

DATE	REVISED BY	CALCULATED/ DESIGNED BY	CANDACE FUNG
5/05	5/05 DATE REVISED	CHECKED BY	JACQUELINE TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **ITS DEVELOPMENT**

PROJECT ENGINEER
CANDACE FUNG

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129112
DGN FILE => 718311ua112.dgn

CU 07388 EA 183111

LAST REVISION 00-00-00 DATE PLOTTED => 18-JUN-2012 TIME PLOTTED => 14:15

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	628	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

8-21-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — Exp. 06/30/07 — 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.

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

DATE	REVISED BY	DATE REVISED
5/05	CANDACE FUNG	5/05
CALCULATED/ DESIGNED BY		CHECKED BY
	JACQUELINE TAN	

PROJECT ENGINEER: CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

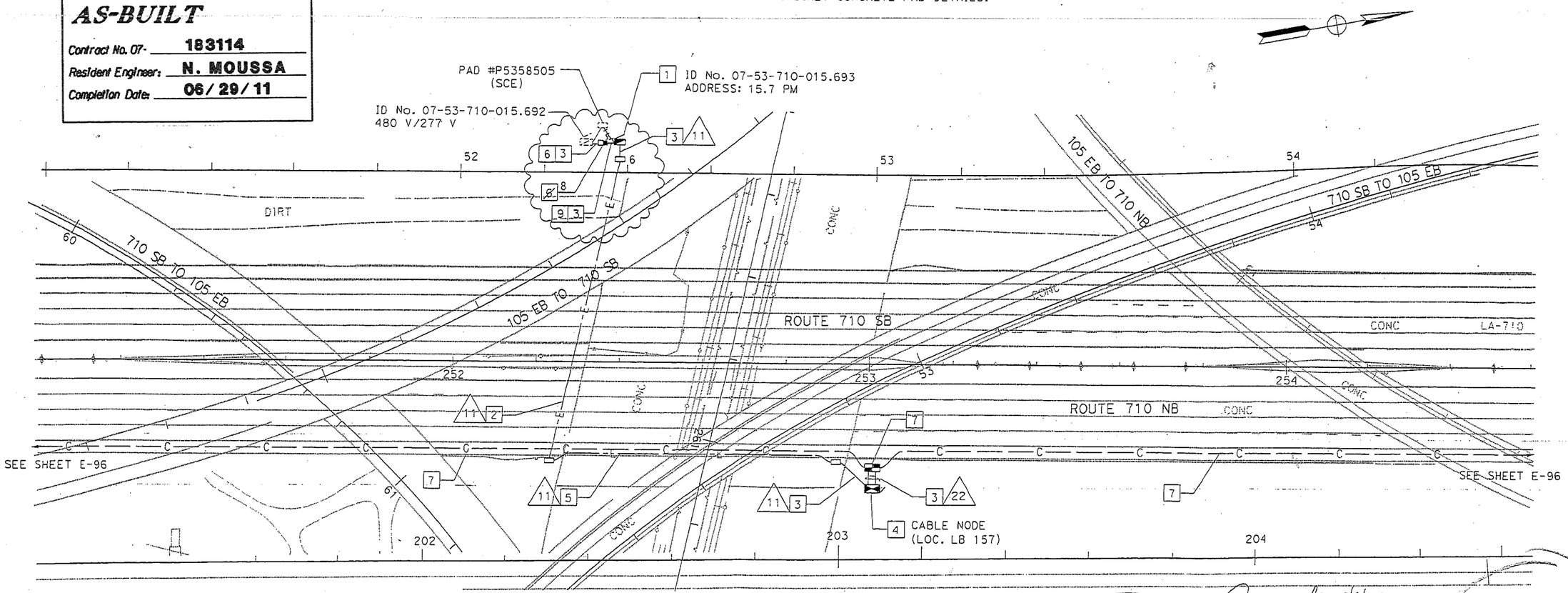
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 11	RUN 22	
48SMFO CABLE	TRUNK CABLE		2	
2#8	CABLE NODE CABINET SERVICE	1		
INNERDUCT (SIZE 25)			4	
CONDUIT SIZE		78	2-103	

AS-BUILT
Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11

CONSTRUCTION NOTES: (THIS SHEET ONLY)

1. INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
   INSTALL:
   (1) 120 V, 1P, 30 A CB, FOR CABLE NODE CABINET
2. JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.
3. TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-116 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-127 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.



5. INSTALL CONDUIT(S) IN THE SAME TRENCH AS COMMUNICATION CONDUIT(S). SEE SHEET E-116 FOR DETAILS.
6. INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.
7. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.
8. INSTALL 100 VA, DRY TYPE TRANSFORMER WITH SECONDARY FUSES MOUNTED IN THE ENCLOSURE IN COMMUNICATION PULL BOX.
   PRIMARY: 480/277 V, 3-PHASE, 4 WIRE, 60 Hz
   SECONDARY: 120/240 V, 3-PHASE, 3 WIRE, 60 Hz
9. INSTALL 53C, 2#8.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

REGISTERED PROFESSIONAL ENGINEER — CANDACE WAI FUNG — No. E 16936 — Exp. 6/30/09 — ELECTRICAL — STATE OF CALIFORNIA

8/6/08

CCO #44
07-183114
CCO #2 Sheet 4 of 4

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CABLE NODE (LOCATION LB157)

SCALE 1:500

E-112A

LAST REVISION 00-00-00 | DATE PLOTTED => 8/5/2008 | TIME PLOTTED => 8:15:08 AM

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s113750

CU 07398

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	710	15.1/29.6	629	756

4-30-06
REGISTERED ELECTRICAL ENGINEER

CANDACE FUNG No. E16936 Exp. 06/30/07 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

8-21-06
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.

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

Caltrans Metric

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN				
		10		11	12	13
12SMFO CABLE	VIDEO / DATA	2				2
SEE TABLE 1, SHEET E-67	CCTV CAMERA WIRING		1		1	
2#2	CAMERA CABINET SERVICE			1		
INNERDUCT (SIZE 25)						2
CONDUIT SIZE		2-78		78	78	78

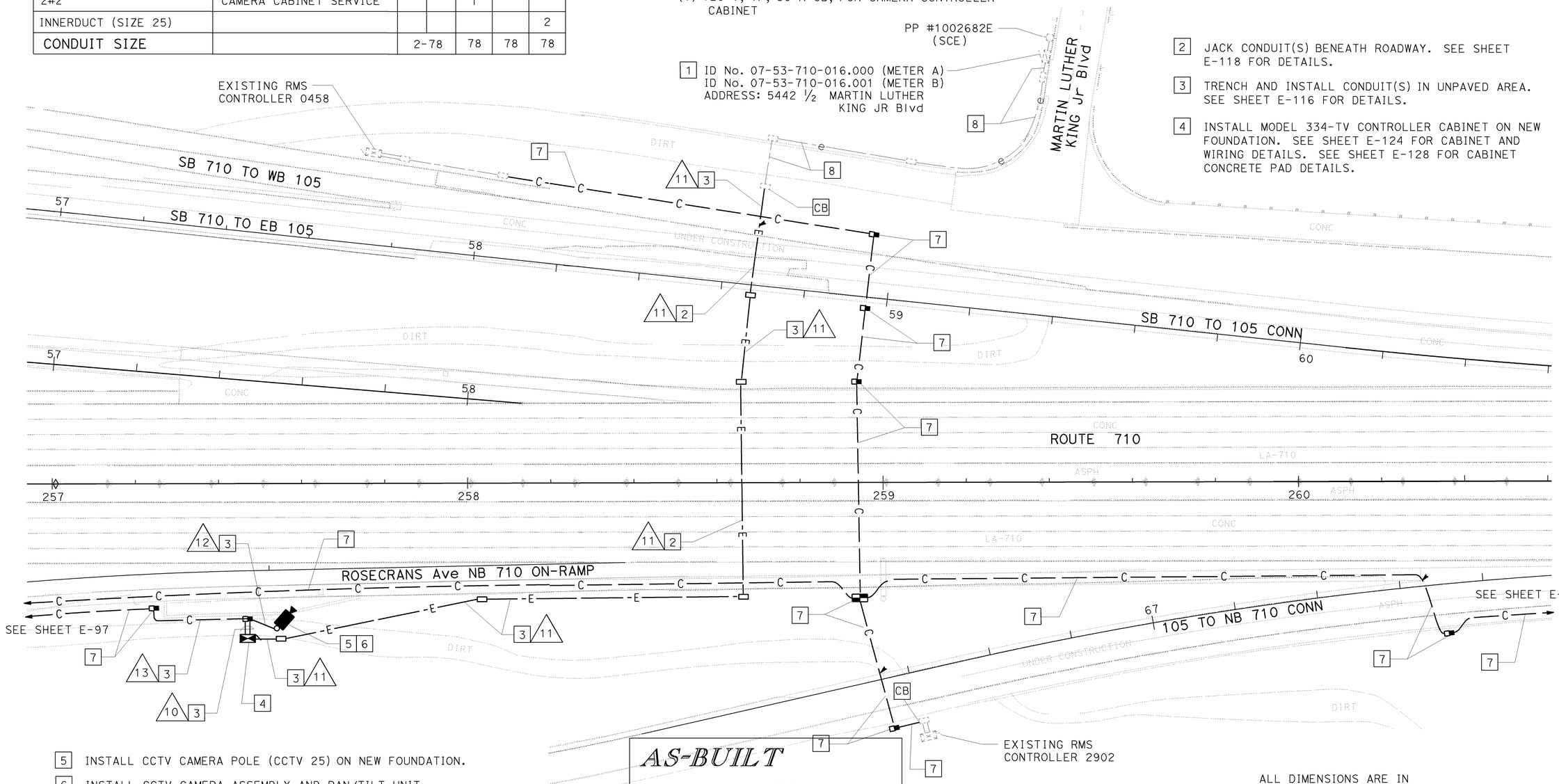
CONSTRUCTION NOTES: (THIS SHEET ONLY)

1 EXISTING 120/240 V, 200 A, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE.
EXISTING:
METER B
(1) 120 V, 1P, 40 A CB, FOR TDC
(2) 120 V, 1P, 40 A CB, FOR RMS
(1) 120 V, 1P, 20 A CB, FOR SPRINKLER
ADD:
METER B
(1) 120 V, 1P, 30 A CB, FOR CAMERA CONTROLLER CABINET

2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-118 FOR DETAILS.

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA. SEE SHEET E-116 FOR DETAILS.

4 INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-124 FOR CABINET AND WIRING DETAILS. SEE SHEET E-128 FOR CABINET CONCRETE PAD DETAILS.



5 INSTALL CCTV CAMERA POLE (CCTV 25) ON NEW FOUNDATION.

6 INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-129 FOR DETAILS.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

8 ADD 2#2 CONDUCTORS TO EXISTING CONDUIT.

AS-BUILT

Contract No. 07- 183114
Resident Engineer: N. MOUSSA
Completion Date: 06/29/11

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-67.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB160)

SCALE 1:500

E-113

DATE	REVISED BY
5/05	CANDACE FUNG

DATE	DESIGNED BY
5/05	JACQUELINE TAN

CHECKED BY

PROJECT ENGINEER
CANDACE FUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED =>29-MAY-2012 TIME PLOTTED =>10:29

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME =>s129112
DGN FILE =>718311ua113.dgn

CU 07388

EA 183111

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	206	290

REGISTERED ELECTRICAL ENGINEER — 2/01/08 DATE

5-12-08
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

NOTE:

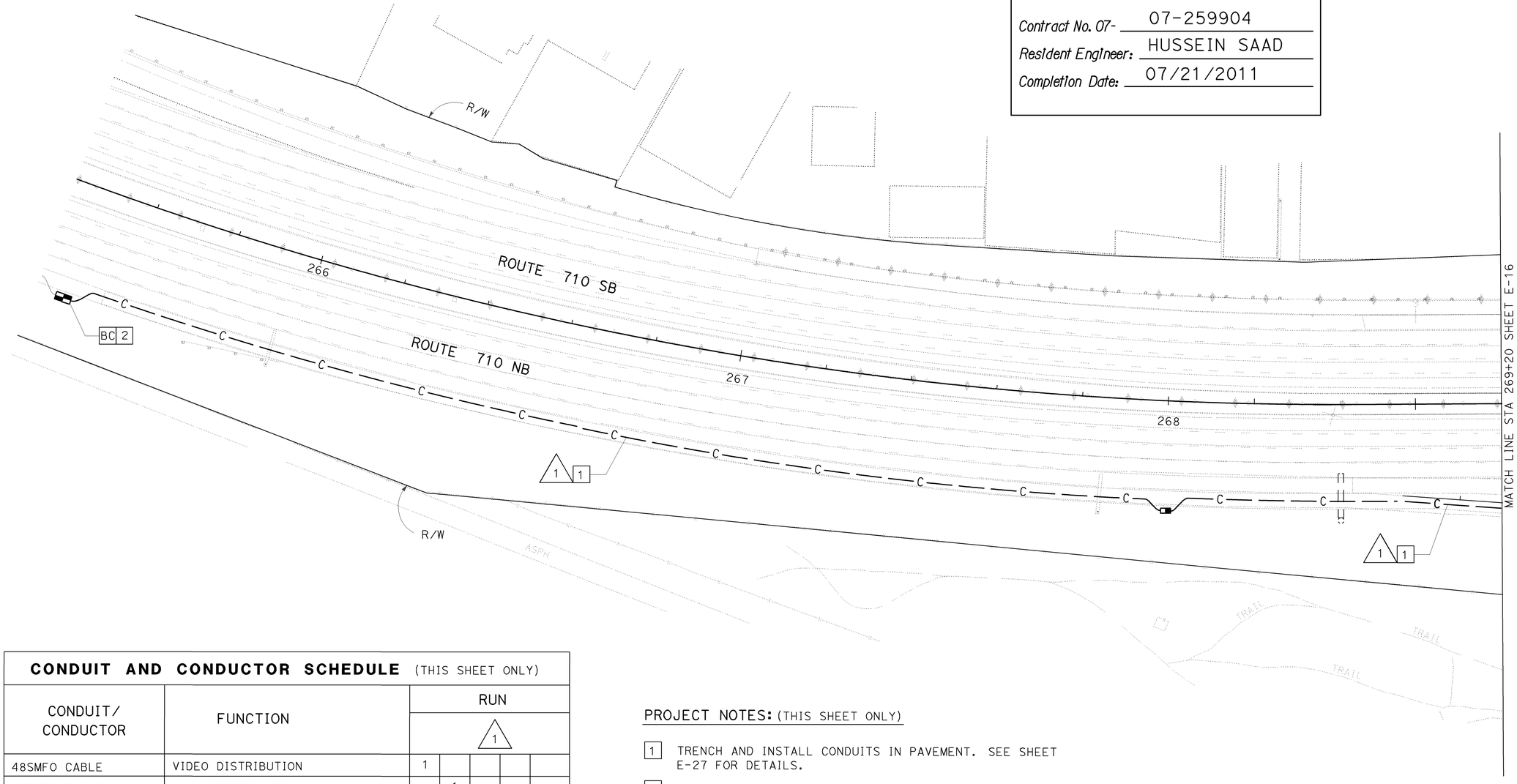
FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

AS-BUILT

Contract No. 07- 07-259904

Resident Engineer: HUSSEIN SAAD

Completion Date: 07/21/2011



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 1				
48SMFO CABLE	VIDEO DISTRIBUTION	1				
48SMFO CABLE	DATA DISTRIBUTION		1			
48SMFO CABLE	TRUNK CABLE			1		
INNERDUCT (SIZE 25)		1	1	1	1	
CONDUIT SIZE		103				103

PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.
2. COIL 10 m 3-48SMFO FOR FUTURE USE. TO BE SPLICED IN COOPERATION WITH ADJACENT ONGOING CONTRACT.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

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

E-15

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
CANDACE FUNG	JACQUELINE TAN	BN	04/06

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION 00-00-00 DATE PLOTTED => 09-DEC-2011 TIME PLOTTED => 09:45

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s111708 DGN FILE => 725990ua015.dgn | CU 07388 | EA 259901

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	207	290

REGISTERED ELECTRICAL ENGINEER 2/01/08 DATE

5-12-08
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

NOTE:

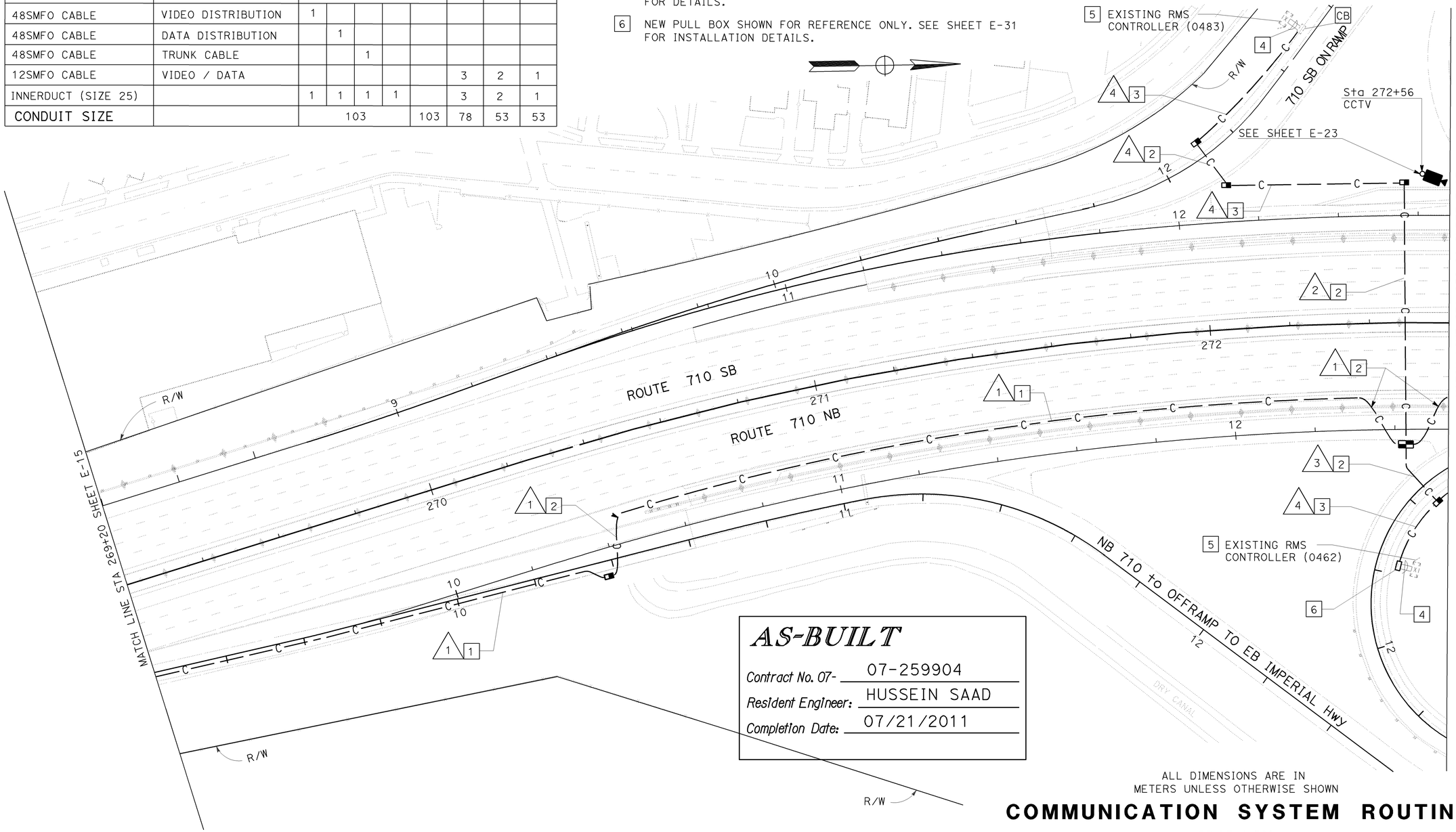
FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE DISTRICT OFFICE.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 1					RUN 2	RUN 3	RUN 4
48SMFO CABLE	VIDEO DISTRIBUTION	1							
48SMFO CABLE	DATA DISTRIBUTION		1						
48SMFO CABLE	TRUNK CABLE			1					
12SMFO CABLE	VIDEO / DATA						3	2	1
INNERDUCT (SIZE 25)		1	1	1	1		3	2	1
CONDUIT SIZE		103				103	78	53	53

PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUITS IN PAVEMENT, SEE SHEET E-27 FOR DETAILS.
2. JACK CONDUITS BENEATH ROADWAY, SEE SHEET E-29 FOR DETAILS.
3. TRENCH AND INSTALL CONDUITS IN UNPAVED AREA, SEE SHEET E-26 FOR DETAILS.
4. ADD 1-2SMFO CABLE IN EXISTING CONDUIT AND CONNECT TO CONTROLLER.
5. INSTALL FOTM AND FDU IN CONTROLLER CABINET, SEE SHEET E-33 FOR DETAILS.
6. NEW PULL BOX SHOWN FOR REFERENCE ONLY. SEE SHEET E-31 FOR INSTALLATION DETAILS.



AS-BUILT

Contract No. 07- 07-259904
Resident Engineer: HUSSEIN SAAD
Completion Date: 07/21/2011

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

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

E-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY: BN
DATE REVISED: 04/06

LAST REVISION 00-00-00
DATE PLOTTED => 09-DEC-2011
TIME PLOTTED => 09:45

NOTE: 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	710	25.9/29.6	208	290

REGISTERED ELECTRICAL ENGINEER — 2/01/08 DATE

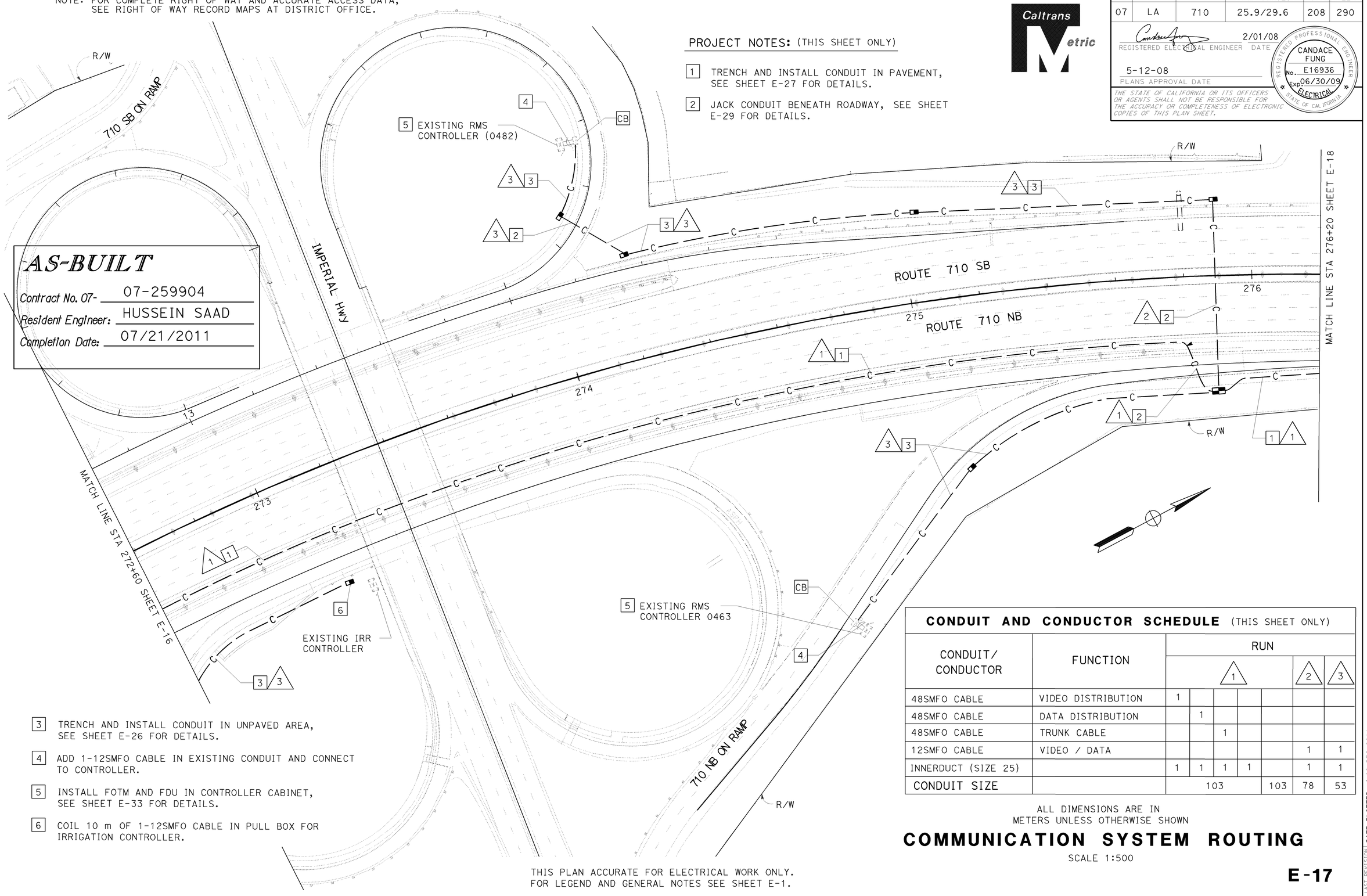
CANDACE FUNG No. E16936 Exp. 06/30/09 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

5-12-08
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.

PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN PAVEMENT, SEE SHEET E-27 FOR DETAILS.
2. JACK CONDUIT BENEATH ROADWAY, SEE SHEET E-29 FOR DETAILS.



AS-BUILT

Contract No. 07- 07-259904

Resident Engineer: HUSSEIN SAAD

Completion Date: 07/21/2011

3 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA, SEE SHEET E-26 FOR DETAILS.

4 ADD 1-12SMFO CABLE IN EXISTING CONDUIT AND CONNECT TO CONTROLLER.

5 INSTALL FOTM AND FDU IN CONTROLLER CABINET, SEE SHEET E-33 FOR DETAILS.

6 COIL 10 m OF 1-12SMFO CABLE IN PULL BOX FOR IRRIGATION CONTROLLER.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 1					RUN 2	RUN 3
48SMFO CABLE	VIDEO DISTRIBUTION	1						
48SMFO CABLE	DATA DISTRIBUTION		1					
48SMFO CABLE	TRUNK CABLE			1				
12SMFO CABLE	VIDEO / DATA						1	1
INNERDUCT (SIZE 25)		1	1	1	1		1	1
CONDUIT SIZE		103				103	78	53

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

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

E-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY: BN
DATE REVISED: 04/06
LAST REVISION DATE PLOTTED => 09-DEC-2011
00-00-00 TIME PLOTTED => 09:45

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s111708 DGN FILE => 725990ua017.dgn | CU 07388 | EA 259901

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	209	290

REGISTERED ELECTRICAL ENGINEER — 2/01/08 DATE

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

5-12-08
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.

Caltrans Metric

REVISED BY	DATE REVISED
BN	04/06

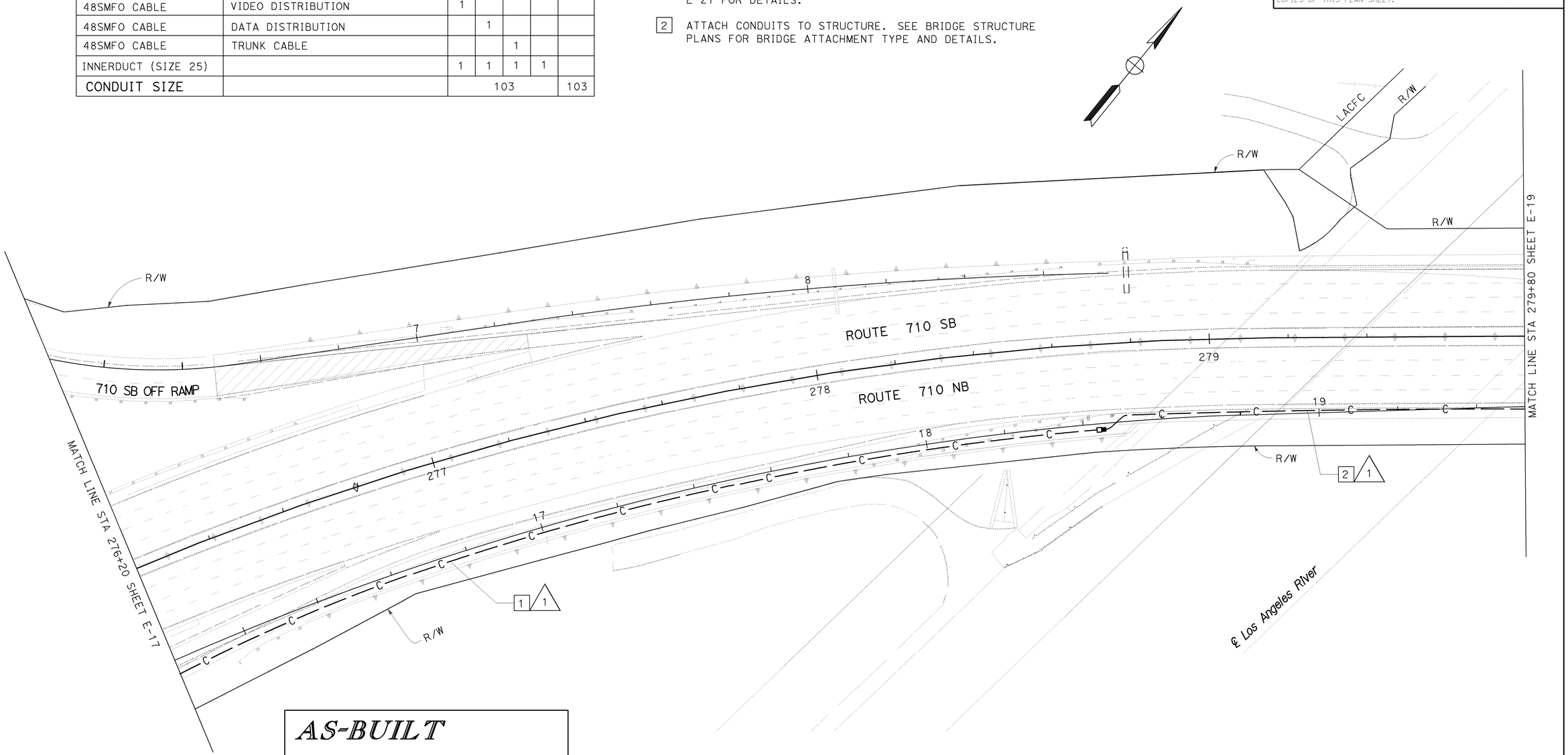
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT / CONDUCTOR	FUNCTION	RUN 1				
48SMFO CABLE	VIDEO DISTRIBUTION	1				
48SMFO CABLE	DATA DISTRIBUTION		1			
48SMFO CABLE	TRUNK CABLE			1		
INNERDUCT (SIZE 25)		1	1	1	1	
CONDUIT SIZE		103				103

PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.
2. ATTACH CONDUITS TO STRUCTURE. SEE BRIDGE STRUCTURE PLANS FOR BRIDGE ATTACHMENT TYPE AND DETAILS.



AS-BUILT

Contract No. 07- 07-259904
Resident Engineer: HUSSEIN SAAD
Completion Date: 07/21/2011

NOTES:
FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-1.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-18

LAST REVISION 00-00-00 | DATE PLOTTED => 09-DEC-2011 | TIME PLOTTED => 09:45

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s111708 | DGN FILE => 725990ua018.dgn | CU 07388 | EA 259901

NOTE:

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

AS-BUILT

Contract No. 07- 07-259904

Resident Engineer: HUSSEIN SAAD

Completion Date: 07/21/2011

Caltrans Metric

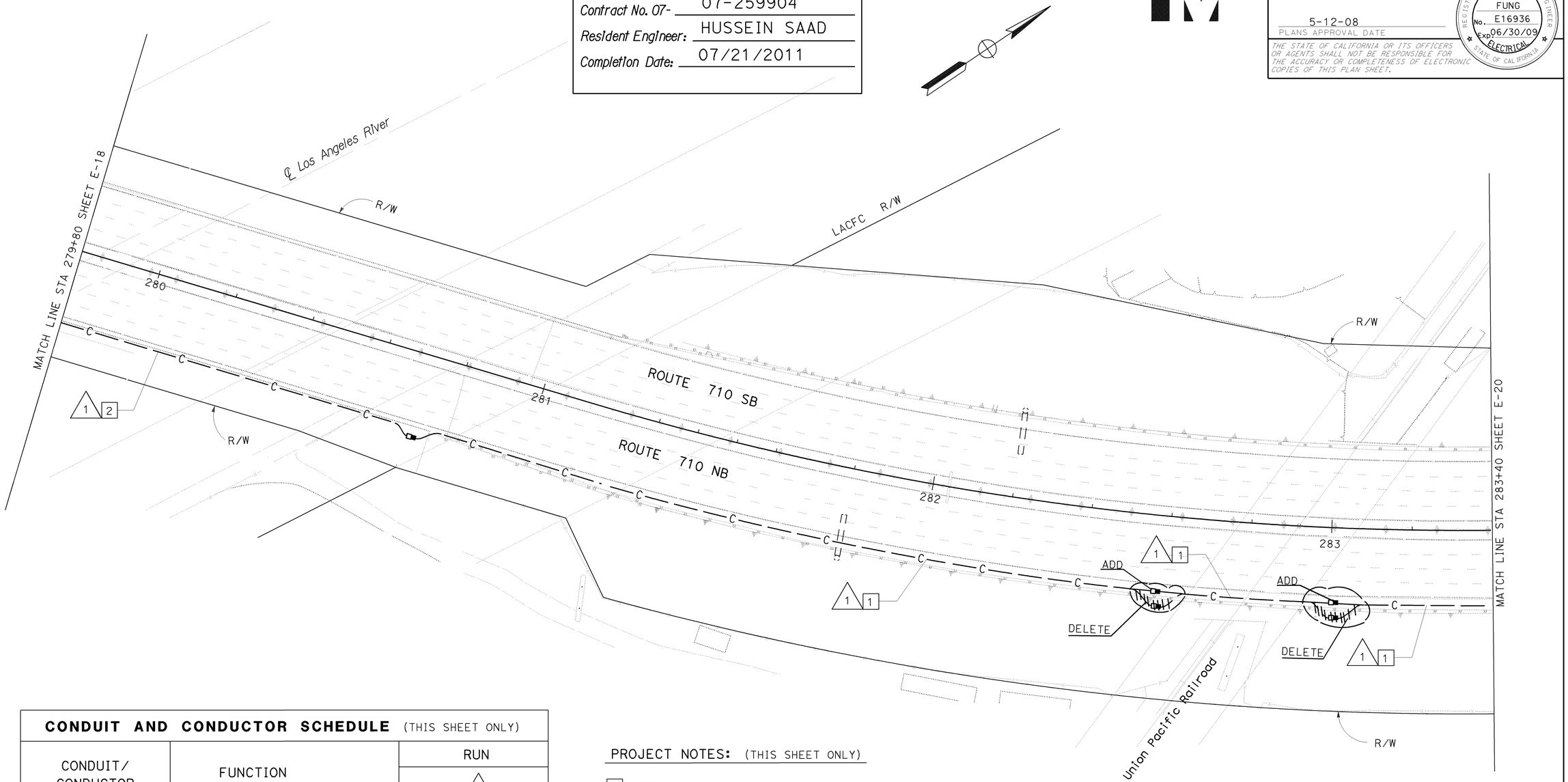
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	210	290

REGISTERED ELECTRICAL ENGINEER 2/01/08 DATE

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

5-12-08 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.



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 1				
48SMFO CABLE	VIDEO DISTRIBUTION	1				
48SMFO CABLE	DATA DISTRIBUTION		1			
48SMFO CABLE	TRUNK CABLE			1		
INNERDUCT (SIZE 25)		1	1	1	1	
CONDUIT SIZE		103				103

PROJECT NOTES: (THIS SHEET ONLY)

1 TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.

2 ATTACH CONDUITS TO STRUCTURE. SEE BRIDGE STRUCTURE PLANS FOR BRIDGE ATTACHMENT TYPE AND DETAILS.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

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

E-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
CALCULATED-DESIGNED BY: JACQUELINE TAN
CHECKED BY: CANDACE FUNG
REVISED BY: BN
DATE REVISED: 04/06
LAST REVISION 00-00-00
DATE PLOTTED => 09-DEC-2011
TIME PLOTTED => 09:45

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s111708 DGN FILE => 725990ua019.dgn | CU 07388 | EA 259901

NOTE:

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	710	25.9/29.6	211	290

REGISTERED ELECTRICAL ENGINEER — 2/01/08 DATE

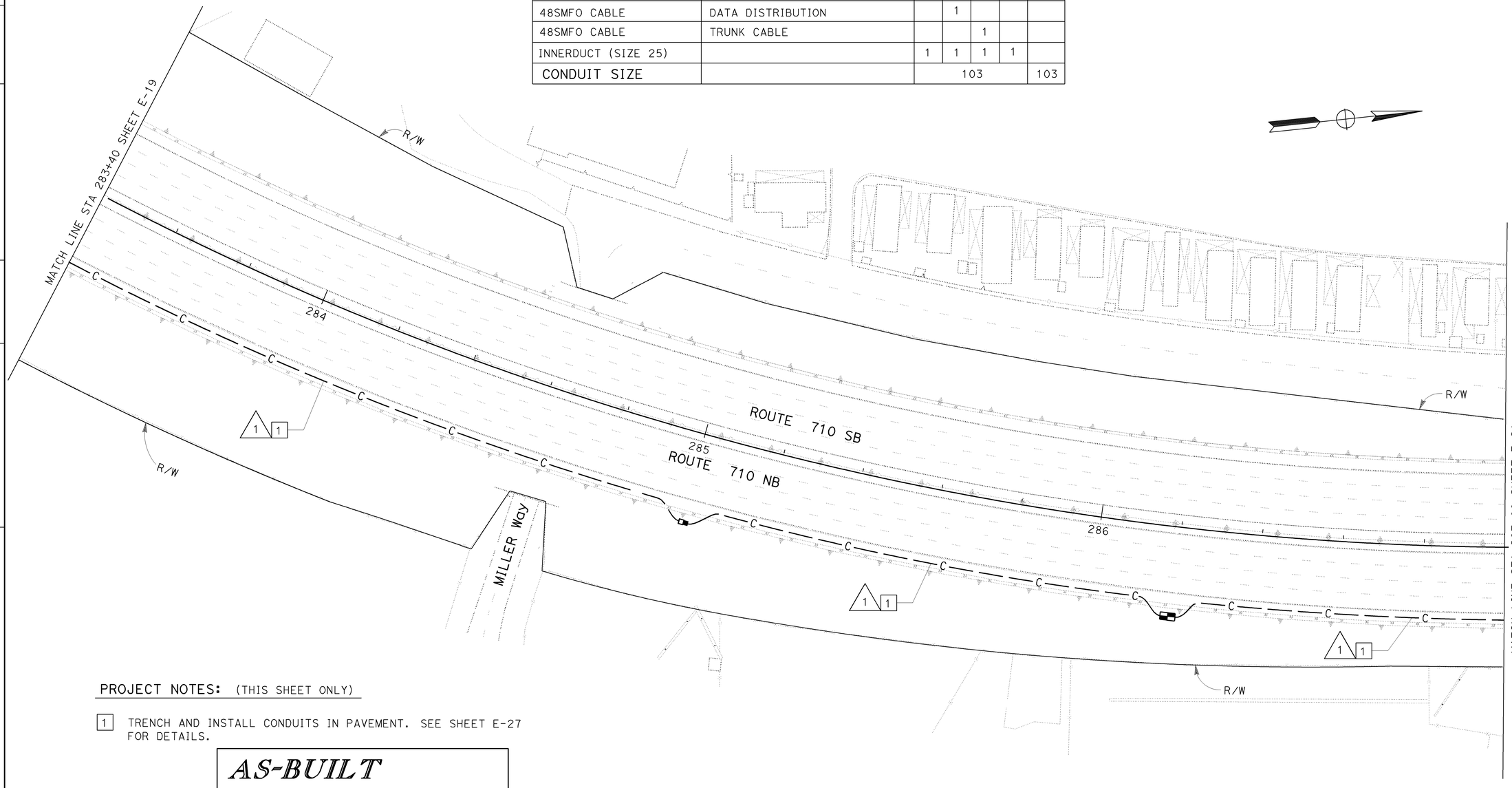
CANDACE FUNG No. E16936 Exp. 06/30/09 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

5-12-08
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.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 1				
48SMFO CABLE	VIDEO DISTRIBUTION	1				
48SMFO CABLE	DATA DISTRIBUTION		1			
48SMFO CABLE	TRUNK CABLE			1		
INNERDUCT (SIZE 25)		1	1	1	1	
CONDUIT SIZE		103				103



PROJECT NOTES: (THIS SHEET ONLY)

[1] TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.

AS-BUILT

Contract No. 07- 07-259904

Resident Engineer: HUSSEIN SAAD

Completion Date: 07/21/2011

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN

REVISED BY: BN
DATE REVISED: 04/06

LAST REVISION 00-00-00
DATE PLOTTED => 09-DEC-2011
TIME PLOTTED => 09:45

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s111708
DGN FILE => 725990ua020.dgn

CU 07388

EA 259901

NOTE:

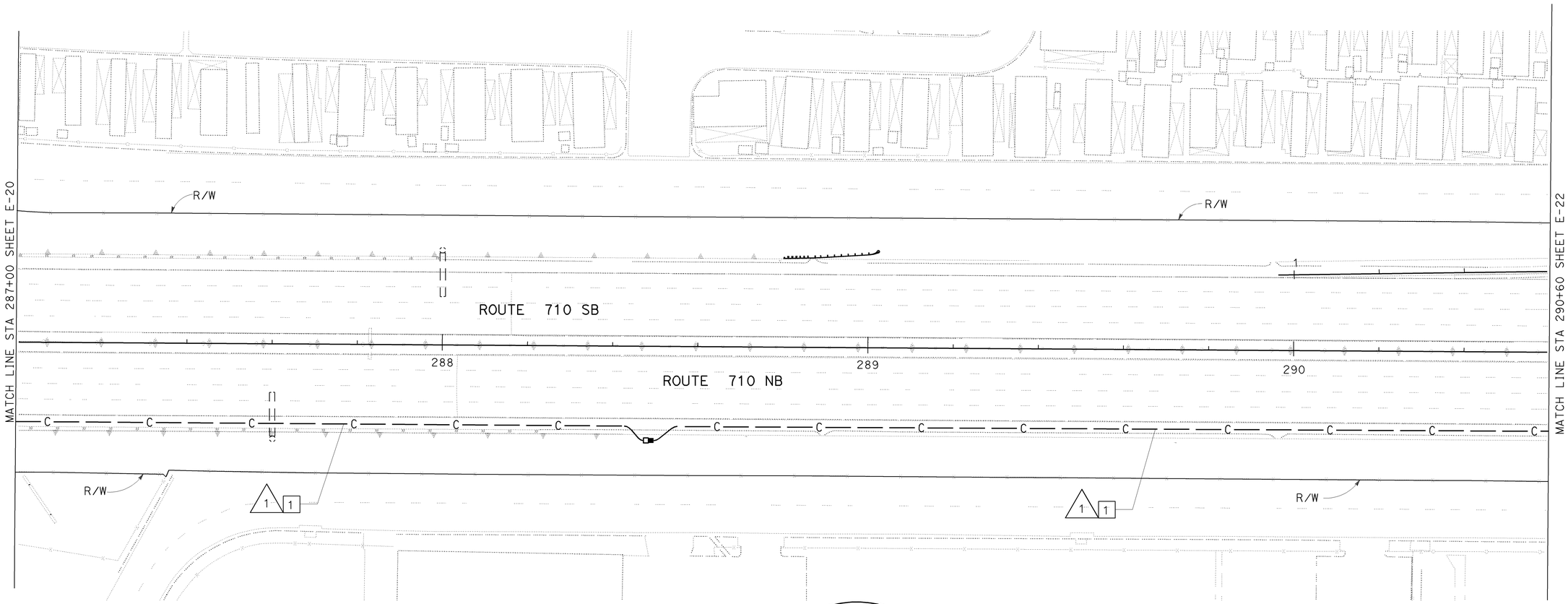
FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN △1				
48SMFO CABLE	VIDEO DISTRIBUTION	1				
48SMFO CABLE	DATA DISTRIBUTION		1			
48SMFO CABLE	TRUNK CABLE			1		
INNERDUCT (SIZE 25)		1	1	1	1	
CONDUIT SIZE		103				103

PROJECT NOTES: (THIS SHEET ONLY)

[1] TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.



AS-BUILT

Contract No. 07- 07-259904

Resident Engineer: HUSSEIN SAAD

Completion Date: 07/21/2011

SEE REVISION IN SHEET 212A

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

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-21

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	212	290

REGISTERED ELECTRICAL ENGINEER — 2/01/08 DATE

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

5-12-08
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.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
CANDACE FUNG	JACQUELINE TAN	BN	04/06

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION DATE PLOTTED => 09-DEC-2011
00-00-00 TIME PLOTTED => 09:45

NOTE:

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

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN △1				
48SMFO CABLE	VIDEO DISTRIBUTION	1				
48SMFO CABLE	DATA DISTRIBUTION		1			
48SMFO CABLE	TRUNK CABLE			1		
INNERDUCT (SIZE 25)		1	1	1	1	
CONDUIT SIZE		103				103

PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.
2. INSTALL SPLICE VAULT INSTEAD OF COMMUNICATION PULL BOX. COIL 10 m OF EACH CABLE, CAP AND SEAL EACH CABLE FOR FUTURE USE.

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	212A	290

2/01/08
REGISTERED ELECTRICAL ENGINEER DATE

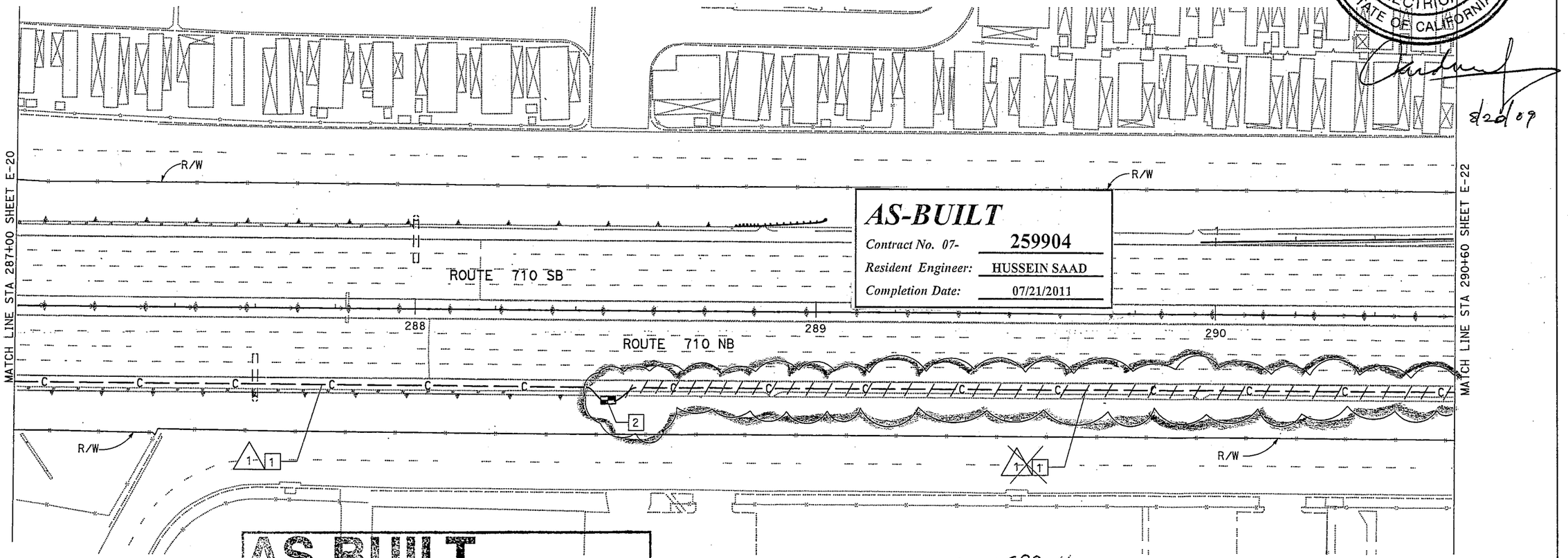
5-12-08
PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
CANDACE WAI FUNG
No. E 16936
Exp. 06/30/11
ELECTRICAL
STATE OF CALIFORNIA

8/20/09



AS-BUILT
Contract No. 07- 259904
Resident Engineer: HUSSEIN SAAD
Completion Date: 07/21/2011

AS BUILT
CONTRACT NO. 07-259904
DATE 9-7-2011
CORRECTIONS BY S. Rago

CONTRACT NO. 07-259904
CCO NO. 15
Sheet 2 of 4

CCO

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

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

E-21A

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

REVISED BY	DATE REVISED
BN	04/06

LAST REVISION 00-00-00 | DATE PLOTTED => 20-AUG-2009 | TIME PLOTTED => 09:09

BORDER LAST REVISED 3/1/2007- | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s113750 | DGN FILE => 725990ua021_cco.dgn | CU 07388 | EA 259901

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	213	290

REGISTERED ELECTRICAL ENGINEER — 2/01/08 DATE

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

5-12-08
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.

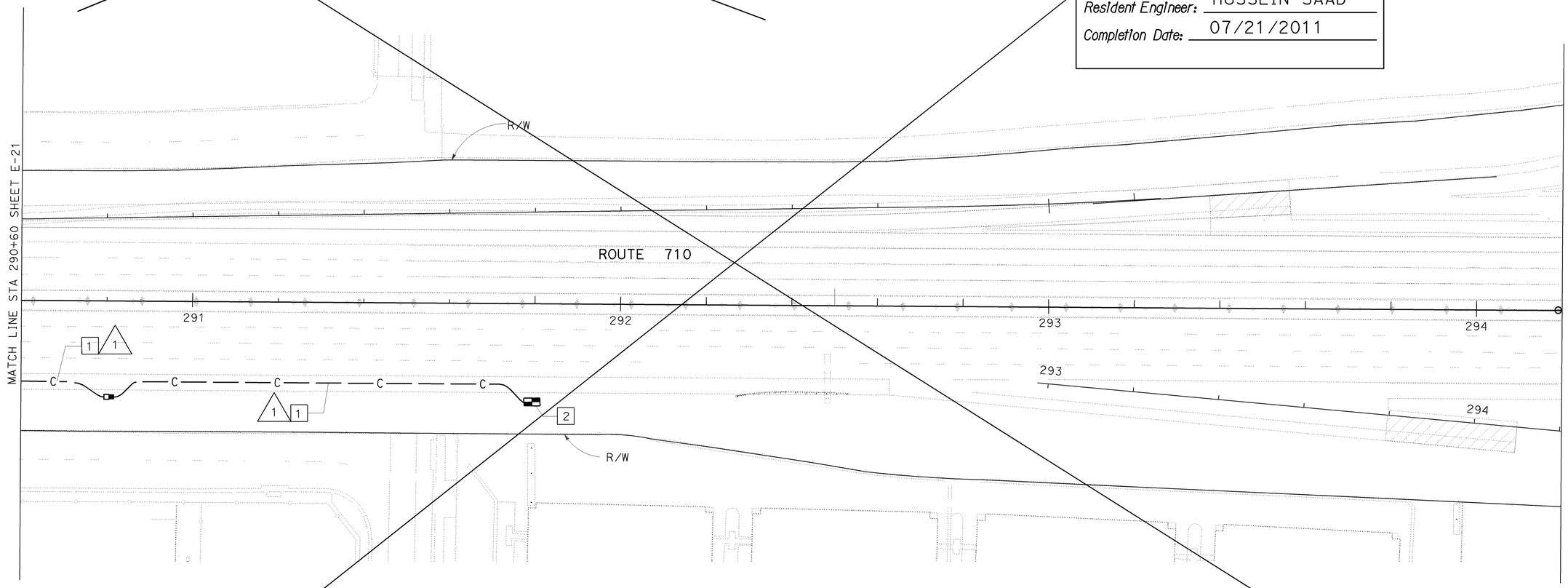
Caltrans Metric

AS-BUILT

Contract No. 07- 07-259904
Resident Engineer: HUSSEIN SAAD
Completion Date: 07/21/2011

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 1				
48SMFO CABLE	VIDEO DISTRIBUTION	1				
48SMFO CABLE	DATA DISTRIBUTION		1			
48SMFO CABLE	TRUNK CABLE			1		
INNERDUCT (SIZE 2S)		1	1	1	1	
CONDUIT SIZE		103				103



PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-27 FOR DETAILS.
2. COIL 12 m 3-48SMFO FOR FUTURE USE.

DELETE PER CCO NO.15

NOTE:

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

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-22

	REVISED BY	DATE REVISED
	BN	04/06

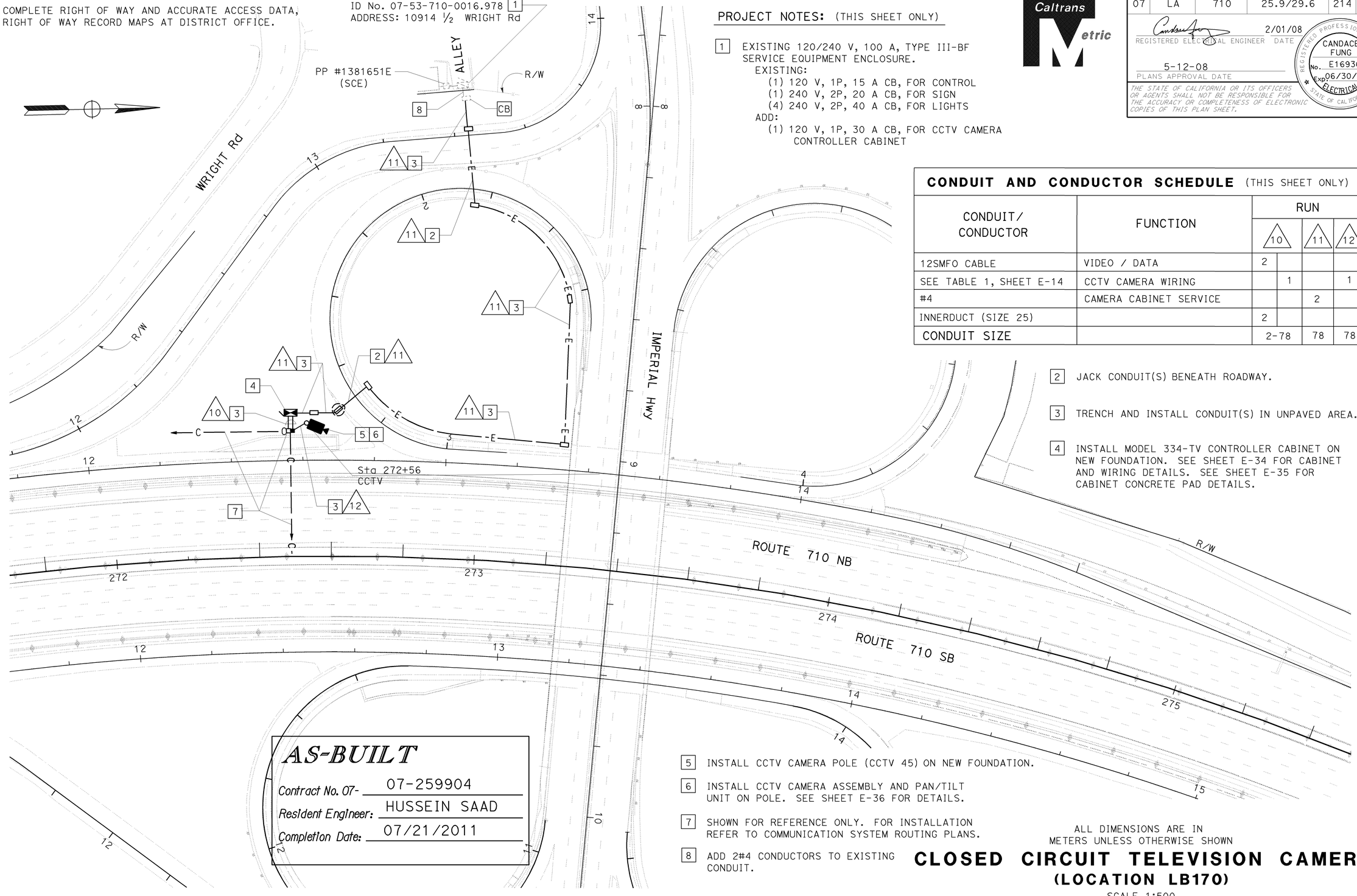
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION DATE PLOTTED => 09-DEC-2011
00-00-00 TIME PLOTTED => 09:45

NOTE:

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



PROJECT NOTES: (THIS SHEET ONLY)

[1] EXISTING 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
- EXISTING:
  - (1) 120 V, 1P, 15 A CB, FOR CONTROL
  - (1) 240 V, 2P, 20 A CB, FOR SIGN
  - (4) 240 V, 2P, 40 A CB, FOR LIGHTS
- ADD:
  - (1) 120 V, 1P, 30 A CB, FOR CCTV CAMERA CONTROLLER CABINET

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN			
		10		11	12
12SMFO CABLE	VIDEO / DATA	2			
SEE TABLE 1, SHEET E-14	CCTV CAMERA WIRING		1		1
#4	CAMERA CABINET SERVICE			2	
INNERDUCT (SIZE 25)		2			
CONDUIT SIZE		2-78		78	78

[2] JACK CONDUIT(S) BENEATH ROADWAY.

[3] TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA.

[4] INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-34 FOR CABINET AND WIRING DETAILS. SEE SHEET E-35 FOR CABINET CONCRETE PAD DETAILS.

[5] INSTALL CCTV CAMERA POLE (CCTV 45) ON NEW FOUNDATION.

[6] INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE. SEE SHEET E-36 FOR DETAILS.

[7] SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

[8] ADD 2#4 CONDUCTORS TO EXISTING CONDUIT.

AS-BUILT

Contract No. 07- 07-259904

Resident Engineer: HUSSEIN SAAD

Completion Date: 07/21/2011

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB170)

SCALE 1:500

E-23

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

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	214	290

REGISTERED ELECTRICAL ENGINEER — 2/01/08 DATE

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

5-12-08
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.

Caltrans Metric

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
CANDACE FUNG	JACQUELINE TAN	BN	04/06

FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION 00-00-00 DATE PLOTTED => 09-DEC-2011 TIME PLOTTED => 09:45

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s111708
DGN FILE => 725990ua023.dgn

CU 07388

EA 259901

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	215	290

2/01/08
REGISTERED ELECTRICAL ENGINEER DATE

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

5-12-08
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.

Caltrans Metric

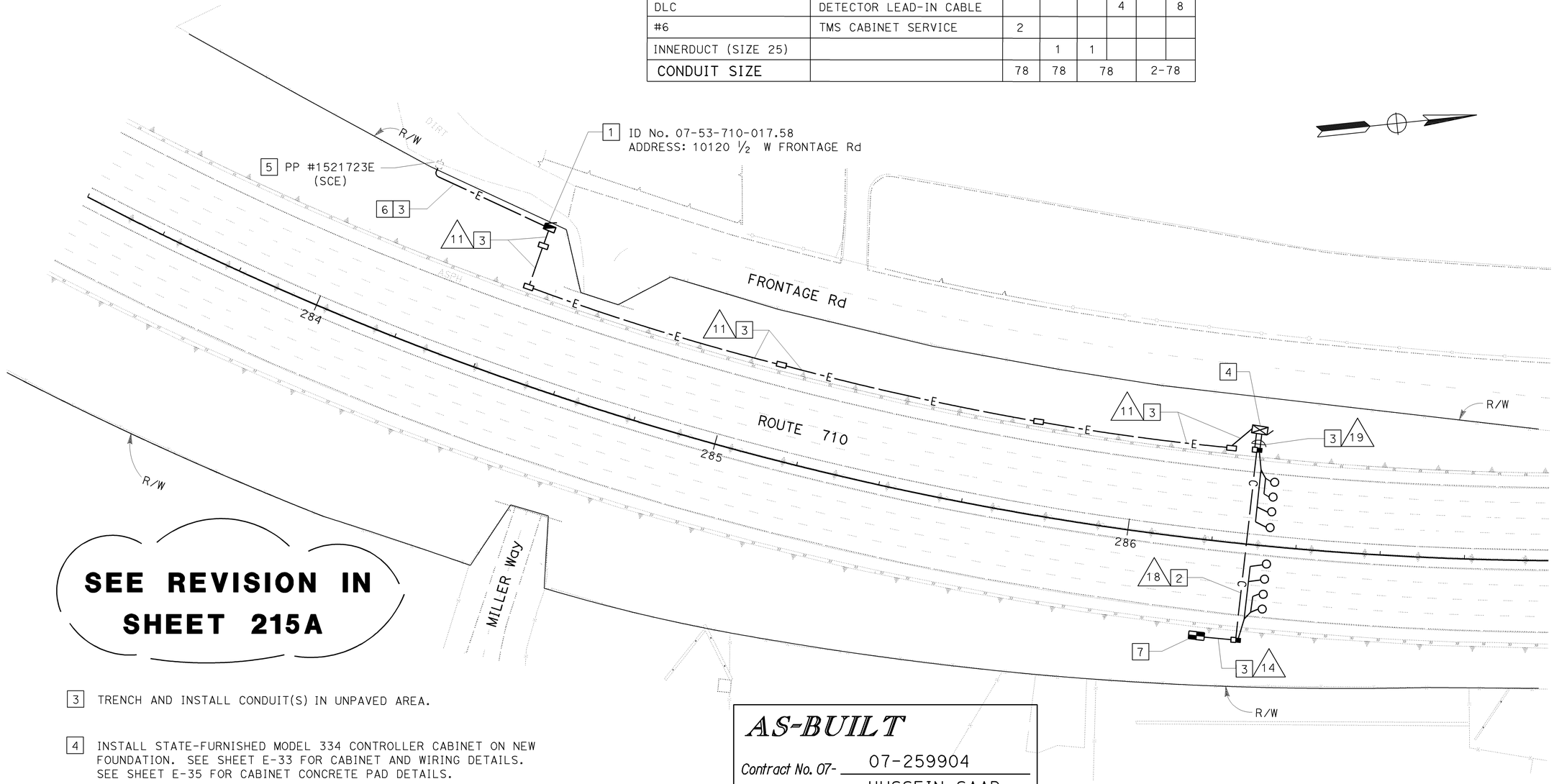
PROJECT NOTES: (THIS SHEET ONLY)

1 INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
INSTALL:
(1) 120 V, 1P, 30 A, CB FOR TMS CONTROLLER CABINET

2 JACK CONDUIT BENEATH ROADWAY. SEE SHEET E-30 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN					
		11	14	18		19	
12SMFO CABLE	VIDEO / DATA		1	1		1	
DLC	DETECTOR LEAD-IN CABLE				4		8
#6	TMS CABINET SERVICE	2					
INNERDUCT (SIZE 25)			1	1			
CONDUIT SIZE		78	78	78		2-78	



SEE REVISION IN SHEET 215A

3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA.

4 INSTALL STATE-FURNISHED MODEL 334 CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-33 FOR CABINET AND WIRING DETAILS. SEE SHEET E-35 FOR CABINET CONCRETE PAD DETAILS.

5 INSTALL 78C, TYPE H SERVICE ON POWER POLE.

6 INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

AS-BUILT

Contract No. 07- 07-259904
Resident Engineer: HUSSEIN SAAD
Completion Date: 07/21/2011

NOTES:

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

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

TRAFFIC MONITORING STATION (LOCATION 2212)

SCALE 1:500

E-24

REVISED BY	DATE REVISED
BN	04/06

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS
Caltrans

LAST REVISION 00-00-00 DATE PLOTTED => 09-DEC-2011 TIME PLOTTED => 09:45

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s111708 DGN FILE => 725990ua024.dgn | CU 07388 | EA 259901

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	25.9/29.6	215A	290

REGISTERED ELECTRICAL ENGINEER — 2/01/08 DATE

5-12-08
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

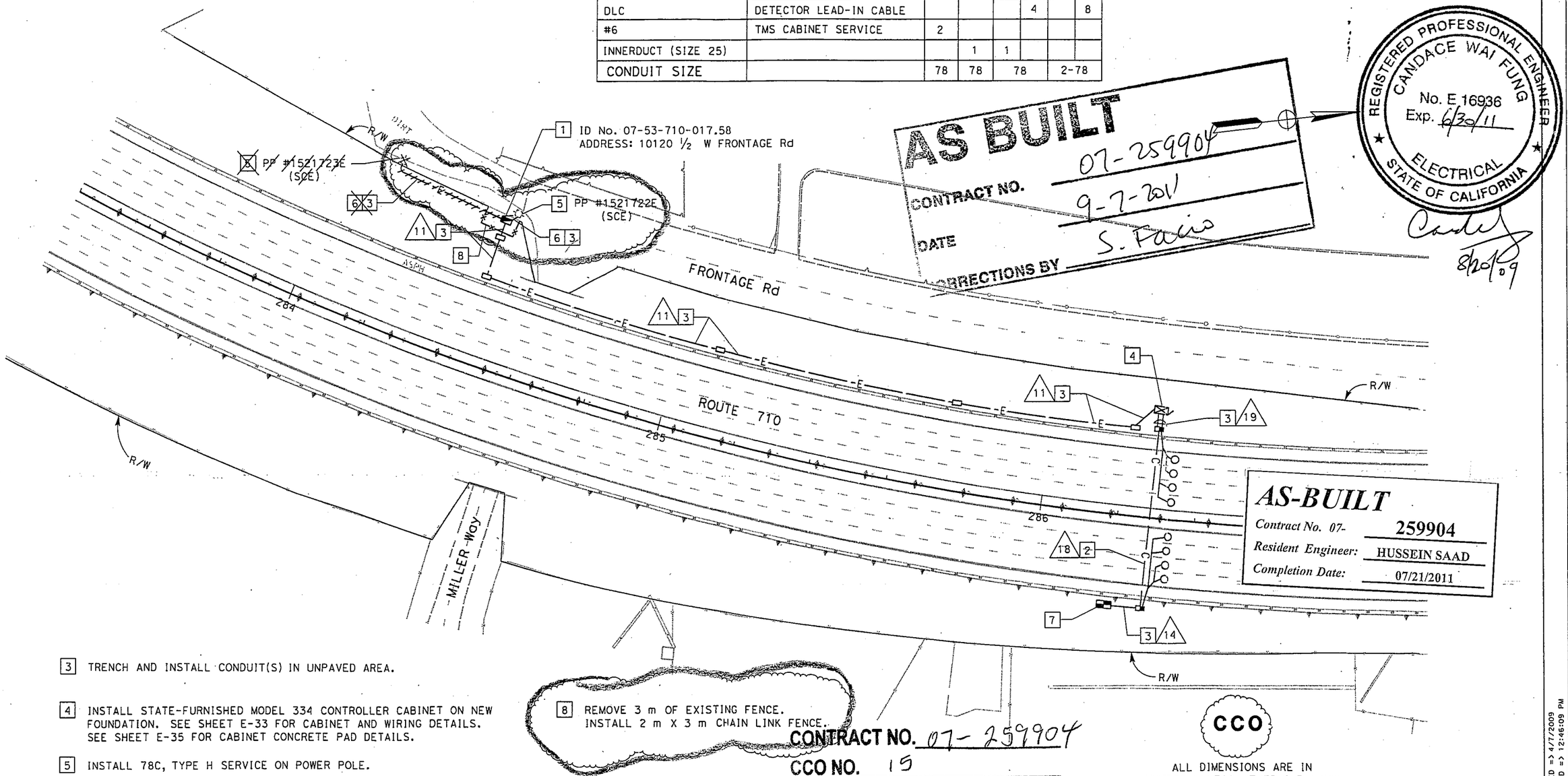
PROJECT NOTES: (THIS SHEET ONLY)

1 INSTALL 120/240 V, 100 A, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION.
INSTALL:
(1) 120 V, 1P, 30 A, CB FOR TMS CONTROLLER CABINET

2 JACK CONDUIT BENEATH ROADWAY. SEE SHEET E-30 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN 11	RUN 14	RUN 18		RUN 19	
12SMFO CABLE	VIDEO / DATA		1	1		1	
DLC	DETECTOR LEAD-IN CABLE				4		8
#6	TMS CABINET SERVICE	2					
INNERDUCT (SIZE 25)			1	1			
CONDUIT SIZE		78	78	78		2-78	



3 TRENCH AND INSTALL CONDUIT(S) IN UNPAVED AREA.

4 INSTALL STATE-FURNISHED MODEL 334 CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-33 FOR CABINET AND WIRING DETAILS. SEE SHEET E-35 FOR CABINET CONCRETE PAD DETAILS.

5 INSTALL 78C, TYPE H SERVICE ON POWER POLE.

6 INSTALL 78C PER POWER COMPANY REQUIREMENT. CONDUCTORS TO BE INSTALLED BY POWER COMPANY.

7 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO COMMUNICATION SYSTEM ROUTING PLANS.

8 REMOVE 3 m OF EXISTING FENCE. INSTALL 2 m X 3 m CHAIN LINK FENCE.

CONTRACT NO. 07-259904
CCO NO. 15
Sheet 4 of 4

CCO

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

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

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

TRAFFIC MONITORING STATION
(LOCATION 2212)

SCALE 1:500

E-24A

	REVISED BY	DATE REVISED
	BN	04/06

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
FUNCTIONAL SUPERVISOR: JACQUELINE C. TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION 00-00-00
DATE PLOTTED => 4/7/2009
TIME PLOTTED => 12:46:09 PM

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s113750
DGN FILE => ...\its_cco\725990ua024_cco.dgn

CU 07388

EA 259901

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	319	368

REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

4-20-09
PLANS APPROVAL DATE

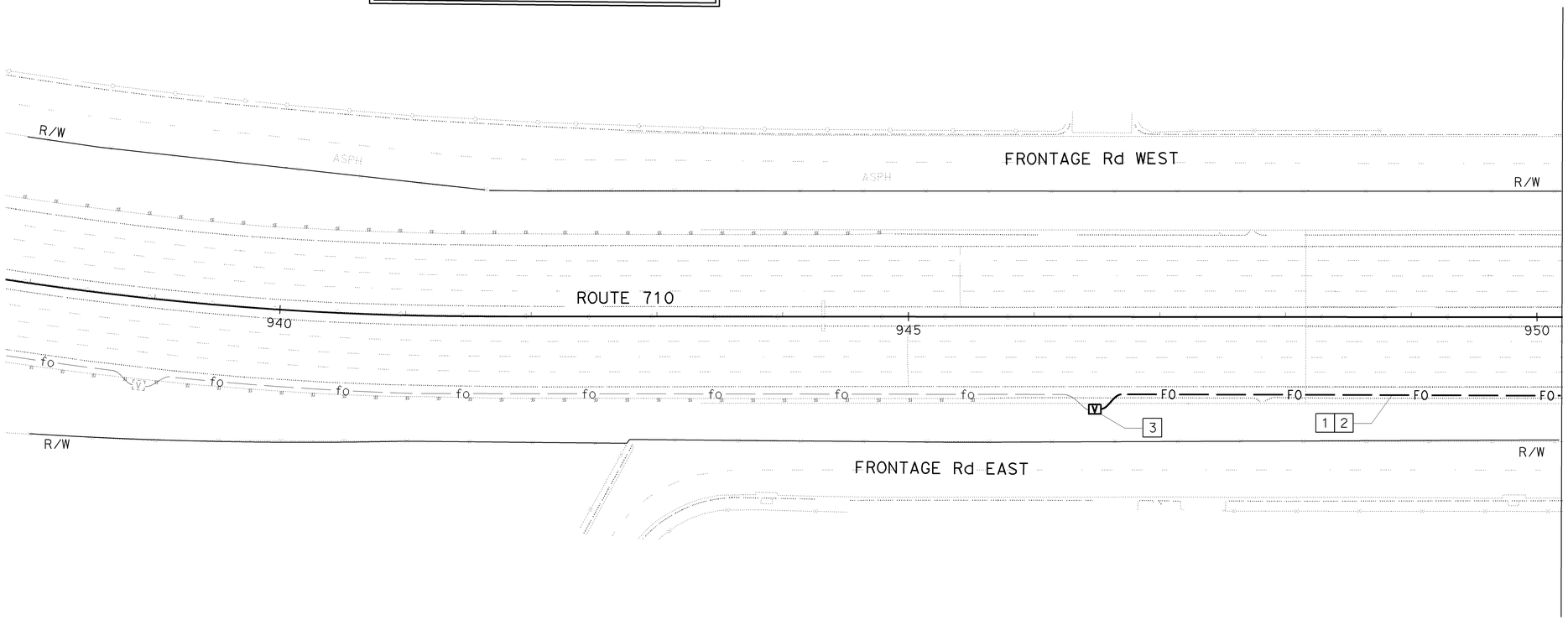
REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
Exp. 06/30/09
ELECTRICAL
STATE OF CALIFORNIA

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.

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. COIL 30' 3-48SMFO FOR FUTURE USE, CAP AND SEAL EACH CABLE.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI



COMMUNICATION SYSTEM

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-22

CANDACE FUNG — CALCULATED-DESIGNED BY
JACQUELINE TAN — CHECKED BY
JACQUELINE TAN — FUNCTIONAL SUPERVISOR
REVISED BY — DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

LAST REVISION: DATE PLOTTED => 08-OCT-2013
00-00-00 TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s111708 | DGN FILE => 726900ua022.dgn | CU 07388 | EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	320	368

12/2/08
REGISTERED ELECTRICAL ENGINEER DATE

4-20-09
PLANS APPROVAL DATE

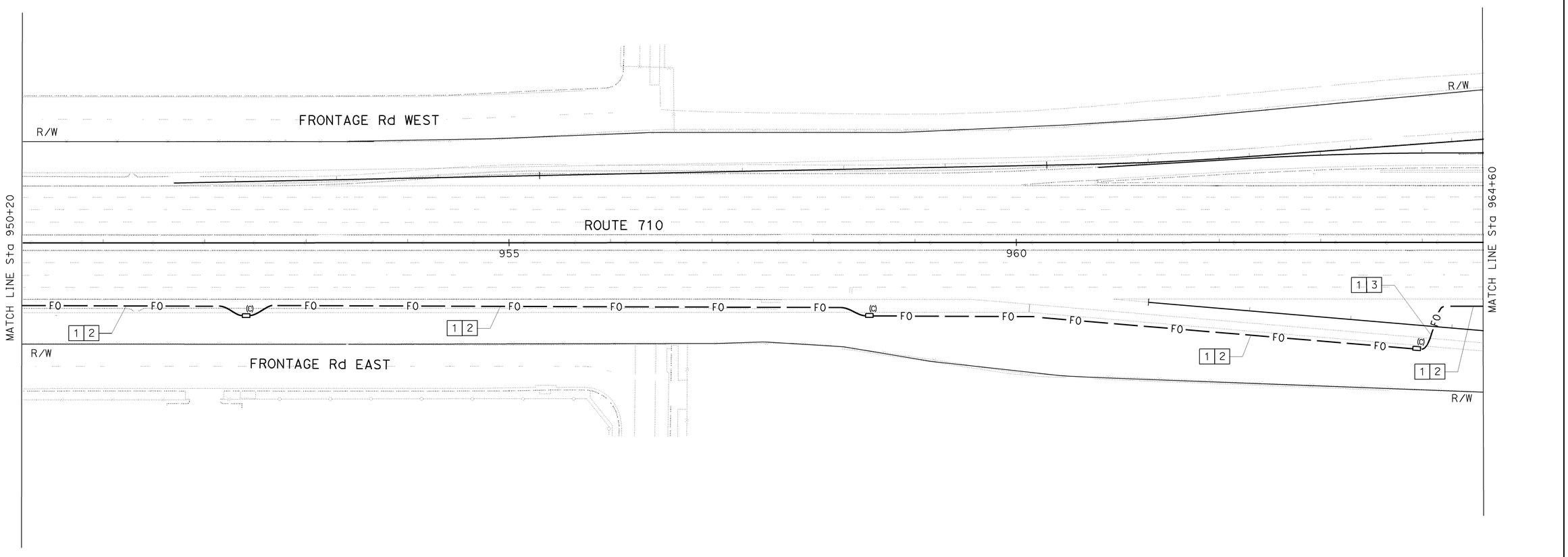
REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
Exp. 06/30/09
ELECTRICAL
STATE OF CALIFORNIA

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.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.



COMMUNICATION SYSTEM

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-23

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
REVISED BY / DATE REVISED:
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS
LAST REVISION 00-00-00
DATE PLOTTED => 08-OCT-2013
TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s111708
DGN FILE => 726900ua023.dgn
CU 07388
EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	321	368

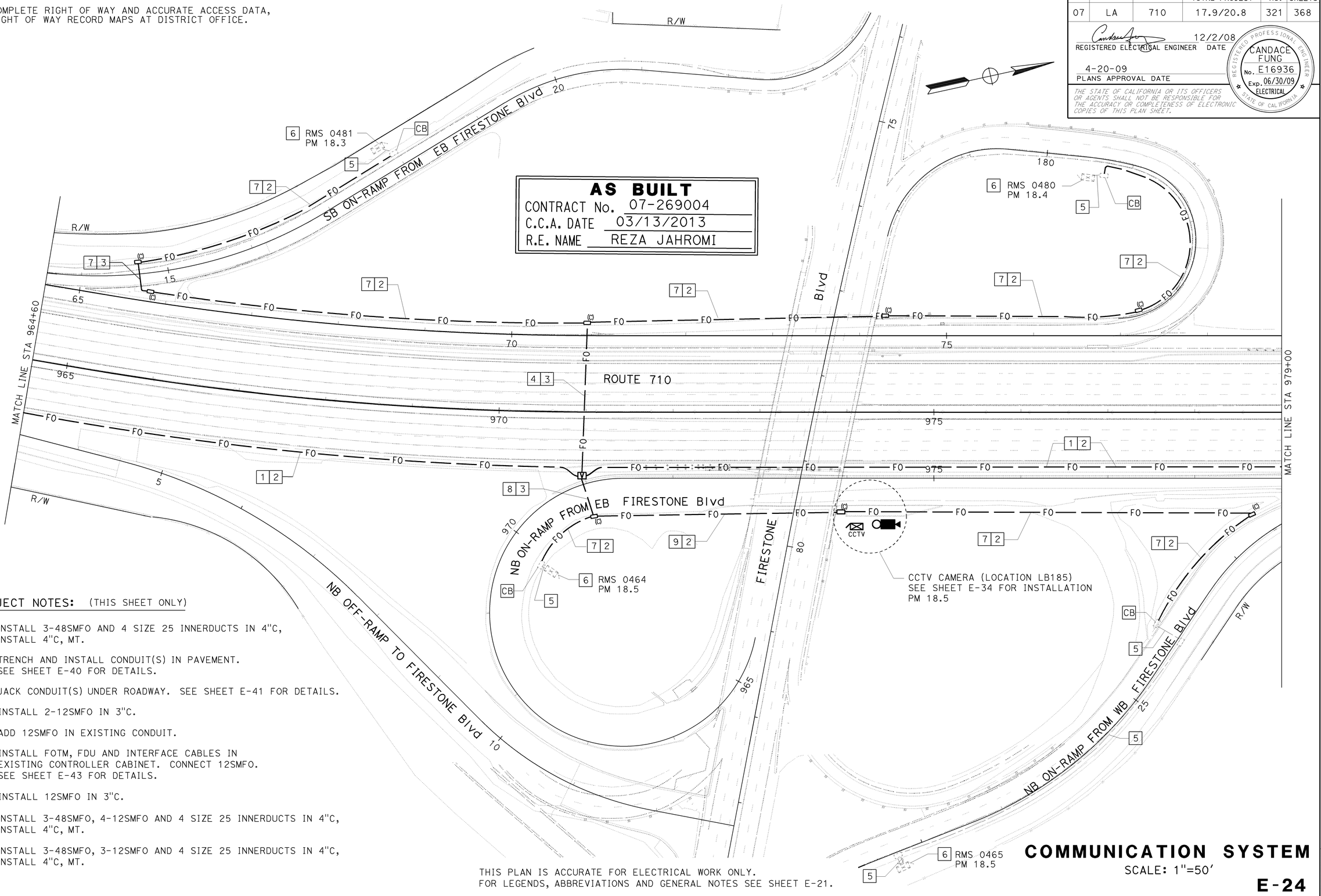
REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

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

4-20-09
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 SHEET.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.
4. INSTALL 2-12SMFO IN 3"C.
5. ADD 12SMFO IN EXISTING CONDUIT.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12SMFO. SEE SHEET E-43 FOR DETAILS.
7. INSTALL 12SMFO IN 3"C.
8. INSTALL 3-48SMFO, 4-12SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.
9. INSTALL 3-48SMFO, 3-12SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

COMMUNICATION SYSTEM

SCALE: 1"=50'

E-24

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
CANDACE FUNG	JACQUELINE TAN		

FUNCTIONAL SUPERVISOR: JACQUELINE TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION 00-00-00 — DATE PLOTTED => 08-OCT-2013 — TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s111708
DGN FILE => 726900ua024.dgn

CU 07388 — EA 269001

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 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.
4. INSTALL 12SMFO IN 3"C.
5. COIL 25' OF 12SMFO IN PULL BOX FOR PUMP STATION.

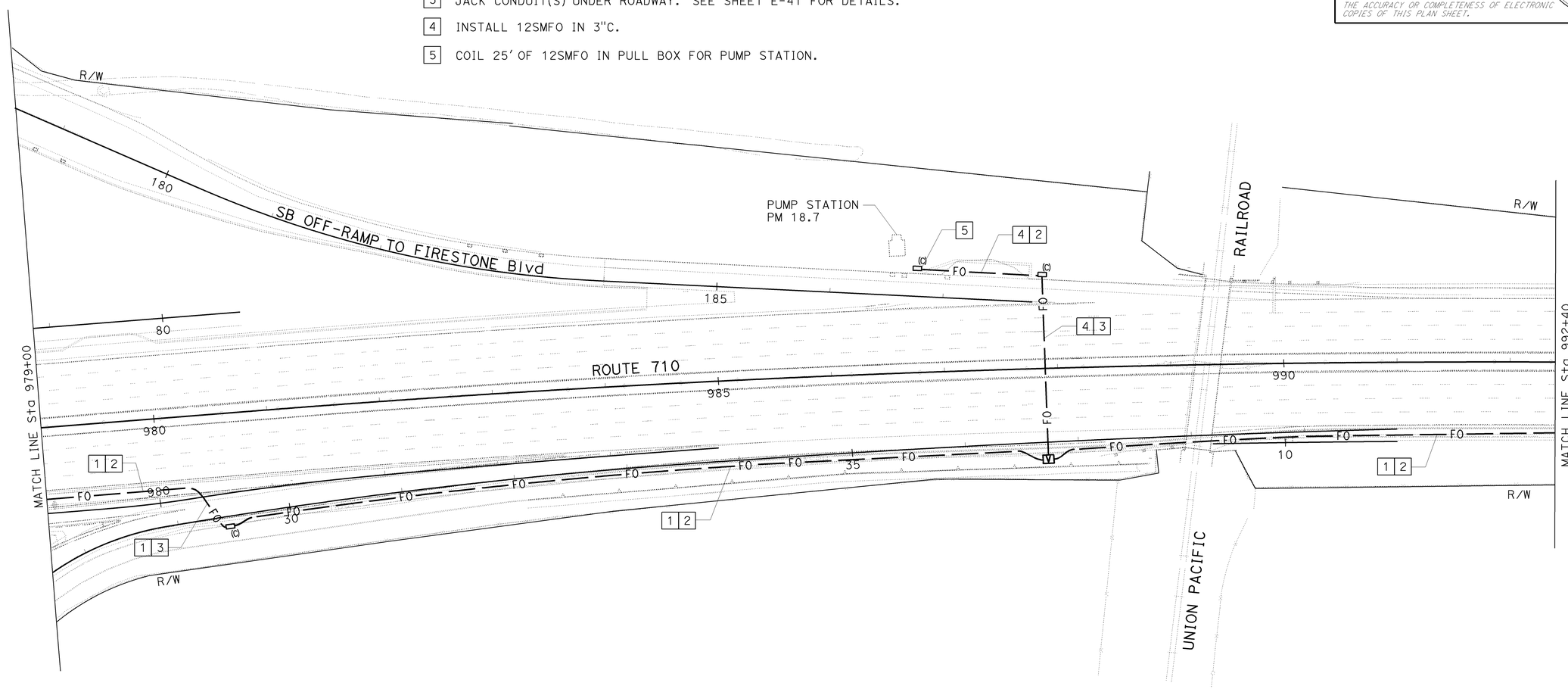
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	322	368

CANDACE FUNG — REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

4-20-09
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.



AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

COMMUNICATION SYSTEM

SCALE: 1"=50'

E-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **OFFICE OF ITS**
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY / DATE REVISED

LAST REVISION: DATE PLOTTED => 08-OCT-2013 TIME PLOTTED => 13:17
00-00-00

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s111708 DGN FILE => 726900ua025.dgn | CU 07388 | EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	323	368

REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

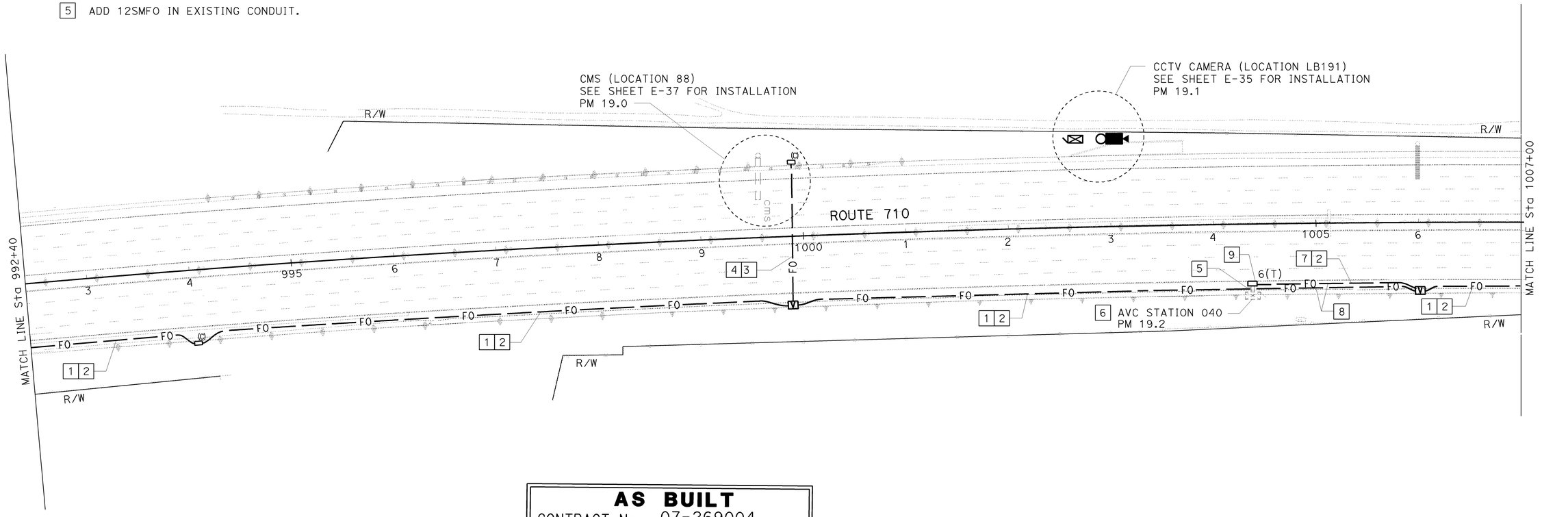
CANDACE FUNG No. E16936 Exp. 06/30/09 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-20-09
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 SHEET.

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.
4. INSTALL 3-12SMFO IN 3"C.
5. ADD 12SMFO IN EXISTING CONDUIT.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12SFMO. SEE SHEET E-43 FOR DETAILS.
7. INSTALL 12SMFO IN 3"C.
8. INSTALL CONDUITS IN THE SAME TRENCH.
9. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-17 FOR INSTALLATION.



AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI

COMMUNICATION SYSTEM

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-26

CANDACE FUNG — CALCULATED-DESIGNED BY
JACQUELINE TAN — CHECKED BY
REVISED BY — DATE REVISED
JACQUELINE TAN — FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

LAST REVISION 00-00-00 — DATE PLOTTED => 08-OCT-2013 — TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => s111708 — DGN FILE => 726900ua026.dgn — CU 07388 — EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	324	368

12/2/08
REGISTERED ELECTRICAL ENGINEER DATE

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

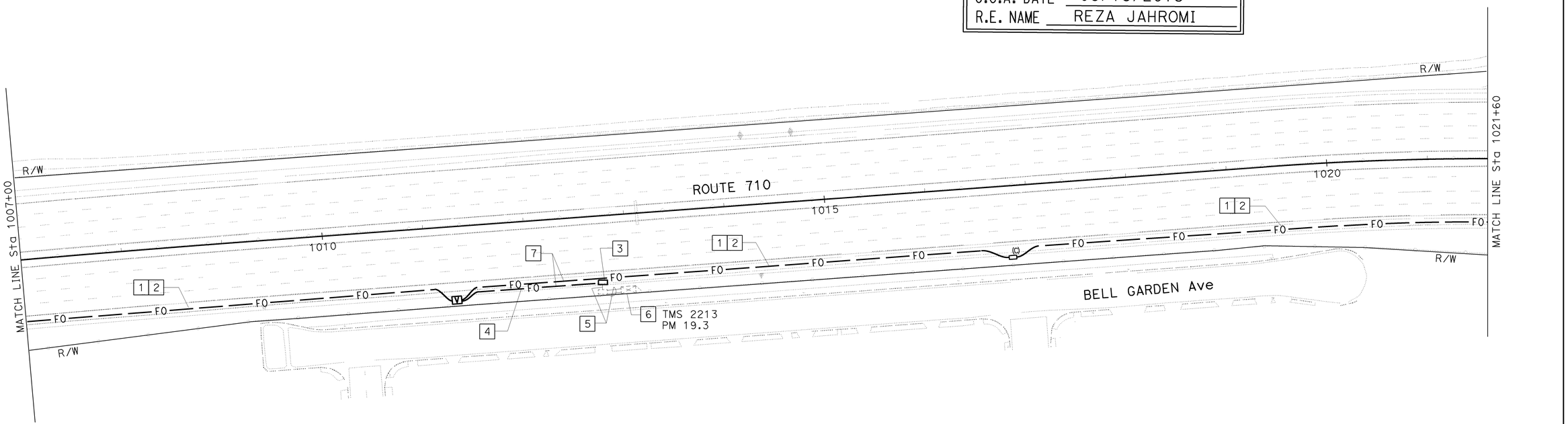
4-20-09
PLANS APPROVAL DATE

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-17 FOR INSTALLATION.
4. INSTALL 12SMFO IN 3"C.
5. ADD 12SMFO IN EXISTING CONDUIT.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12SMFO. SEE SHEET E-43 FOR DETAILS.
7. INSTALL CONDUITS IN THE SAME TRENCH.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

COMMUNICATION SYSTEM

SCALE: 1"=50'

E-27

CALCULATED-DESIGNED BY
CHECKED BY
CANDACE FUNG
JACQUELINE TAN
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR
JACQUELINE TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION 00-00-00
DATE PLOTTED => 08-OCT-2013
TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s111708
DGN FILE => 726900ua027.dgn
CU 07388
EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	325	368

REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

4-20-09
PLANS APPROVAL DATE

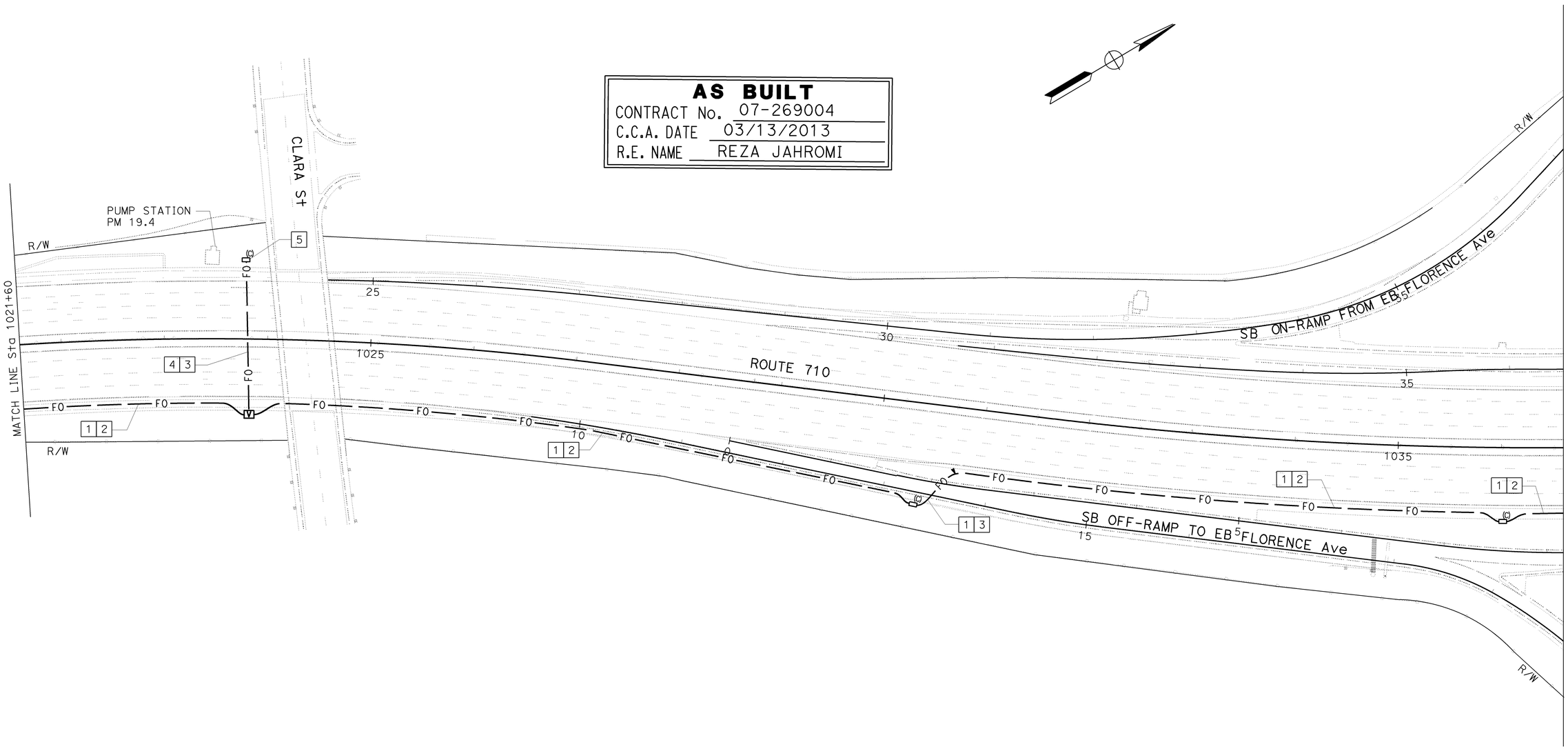
REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — Exp. 06/30/09 — ELECTRICAL — STATE OF CALIFORNIA

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.

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.
4. INSTALL 12SMFO IN 3"C.
5. COIL 25' OF 12SFMO IN PULL BOX FOR PUMP STATION.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI



COMMUNICATION SYSTEM

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-28

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

REVISED BY	DATE REVISED

LAST REVISION: DATE PLOTTED => 08-OCT-2013
00-00-00 TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s111708 DGN FILE => 726900ua028.dgn | CU 07388 | EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	326	368

12/2/08
REGISTERED ELECTRICAL ENGINEER DATE

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

4-20-09
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 SHEET.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.
4. INSTALL 2-12 SMFO IN 3"C.
5. ADD 12 SMFO IN EXISTING CONDUIT.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12 SMFO. SEE SHEET E-43 FOR DETAILS.
7. INSTALL 3-48SMFO, 3-12 SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C. INSTALL 4"C, MT.
8. INSTALL 12 SMFO IN 3"C.

SB OFF-RAMP TO EB FLORENCE Ave
SB ON-RAMP FROM WB FLORENCE Ave
SB OFF-RAMP TO WB FLORENCE Ave
FLORENCE Ave
ROUTE 710
MATCH LINE STA 1036+60
MATCH LINE STA 1051+60
NB OFF-RAMP TO EB FLORENCE Ave
NB ON-RAMP FROM WB FLORENCE Ave
R/W
RMS 0479 PM 19.5
RMS 0478 PM 19.7
RMS 0466 PM 19.6
RMS 0467 PM 19.8
CCTV CAMERA (LOCATION LB198)
SEE SHEET E-36 FOR INSTALLATION
PM 19.8
CB
F0

COMMUNICATION SYSTEM

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
CALCULATED-DESIGNED BY
CHECKED BY
CANDACE FUNG
JACQUELINE TAN
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 08-OCT-2013
00-00-00 TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s111708
DGN FILE => 726900ua029.dgn
CU 07388
EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	327	368

REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

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

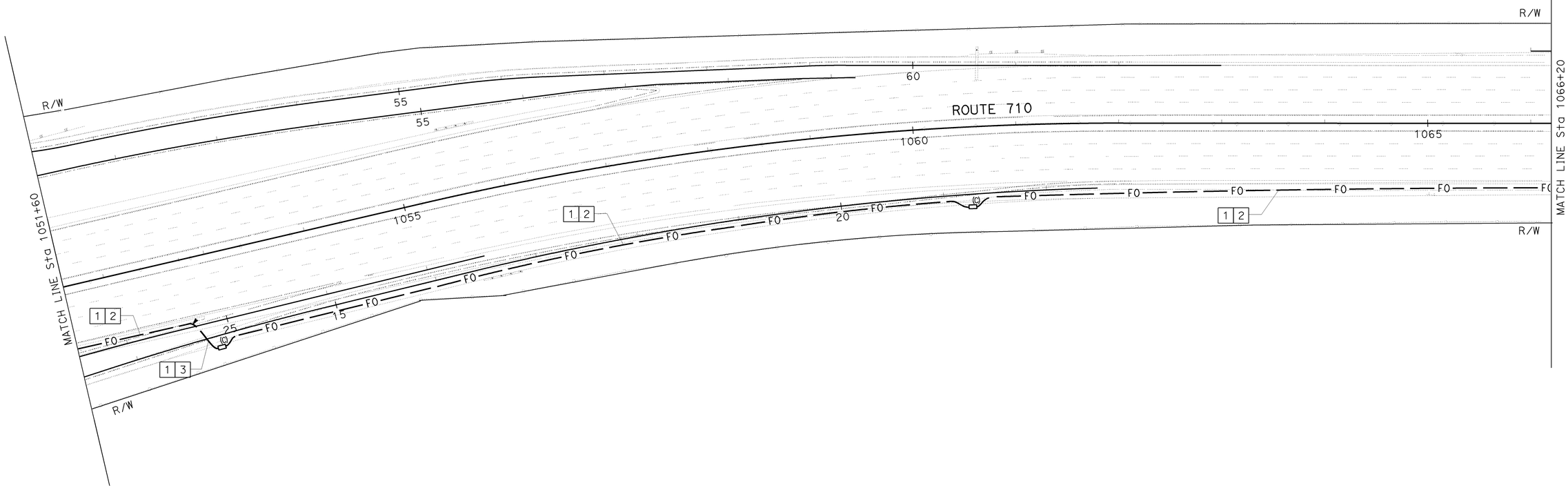
4-20-09
PLANS APPROVAL DATE

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI



COMMUNICATION SYSTEM

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-30

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION 00-00-00
DATE PLOTTED => 08-OCT-2013
TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s111708
DGN FILE => 726900ua030.dgn

CU 07388

EA 269001

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 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C INSTALL 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.
4. INSTALL 12 SMFO IN 3"C.
5. ADD 12 SMFO IN EXISTING CONDUIT.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12 SMFO. SEE SHEET E-43 FOR DETAILS.
7. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-19 FOR INSTALLATION.
8. INSTALL 12 SMFO IN 3"C.
9. COIL 25' OF 12 SMFO IN PULL BOX FOR PUMP STATION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	328	368

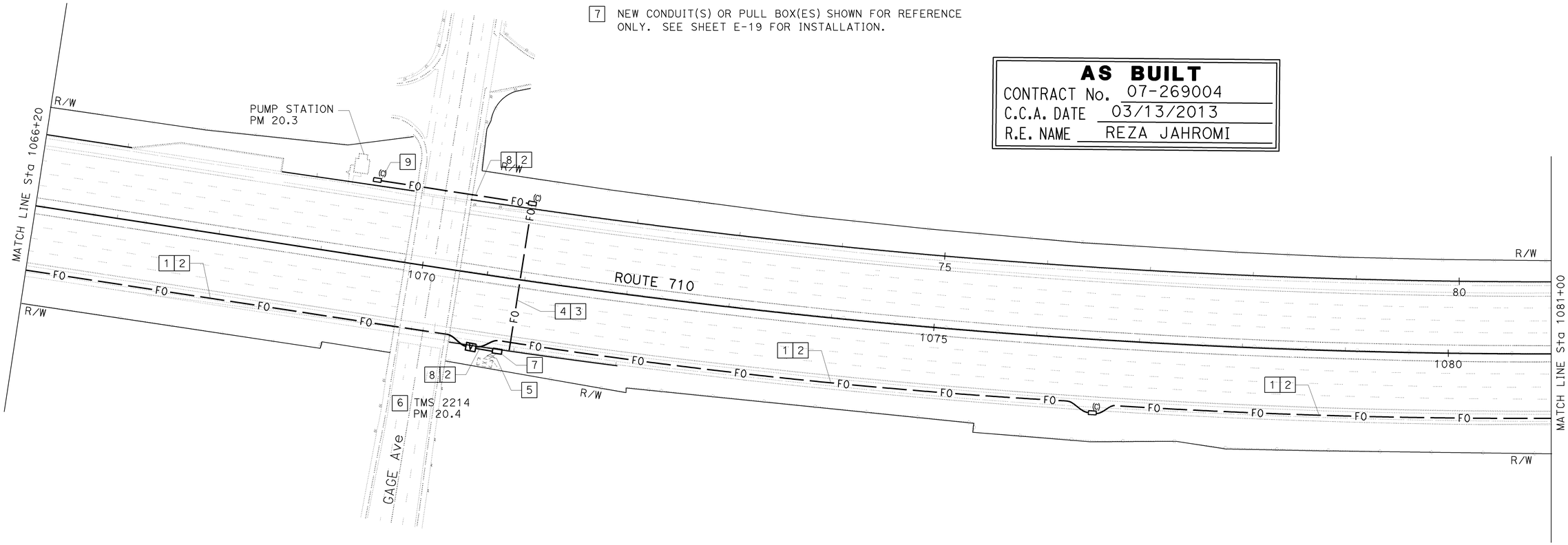
REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

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

4-20-09
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 SHEET.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI



COMMUNICATION SYSTEM

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-31

CANDACE FUNG — CALCULATED-DESIGNED BY
JACQUELINE TAN — CHECKED BY
REVISED BY — DATE REVISED
JACQUELINE TAN — FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS
LAST REVISION 00-00-00 — DATE PLOTTED => 08-OCT-2013 — TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s111708 | DGN FILE => 726900ua031.dgn | CU 07388 | EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	329	368

12/2/08
REGISTERED ELECTRICAL ENGINEER DATE

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

4-20-09
PLANS APPROVAL DATE

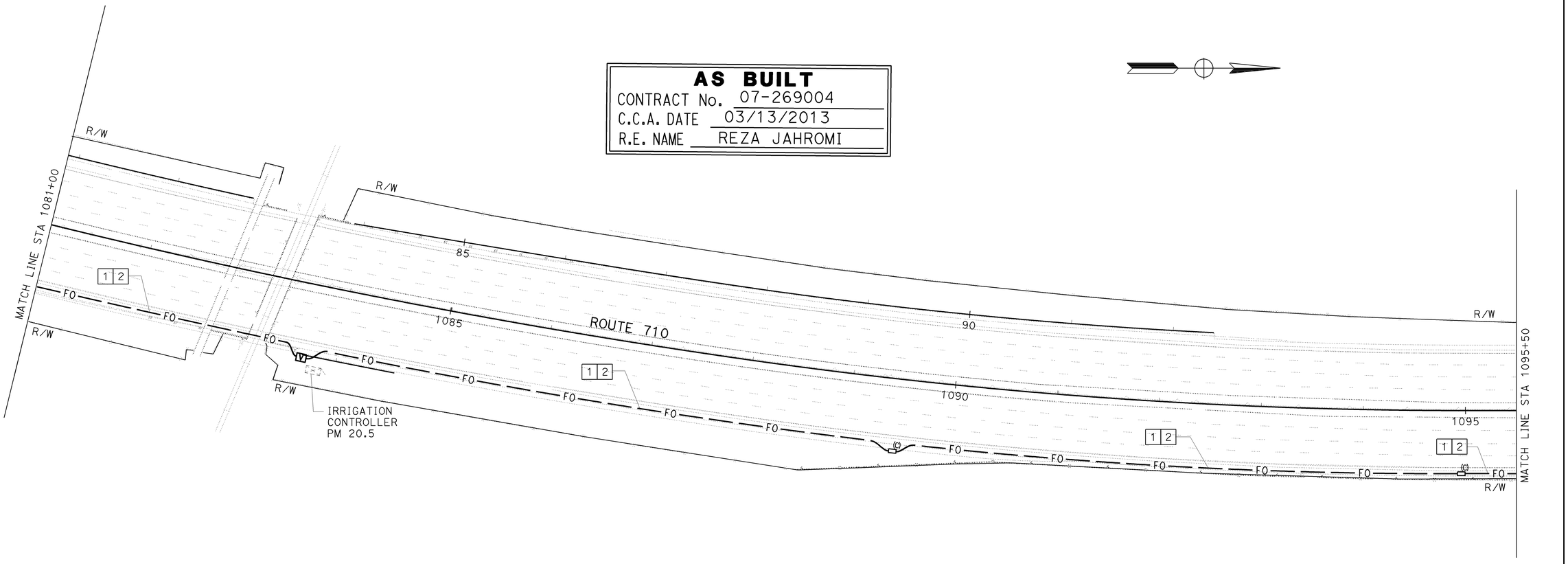
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

PROJECT NOTES: (THIS SHEET ONLY)

1 INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.

2 TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI



COMMUNICATION SYSTEM

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 08-OCT-2013
00-00-00 | TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s111708
DGN FILE => 726900ua032.dgn
CU 07388
EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	330	368

12/2/08
REGISTERED ELECTRICAL ENGINEER DATE

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

4-20-09
PLANS APPROVAL DATE

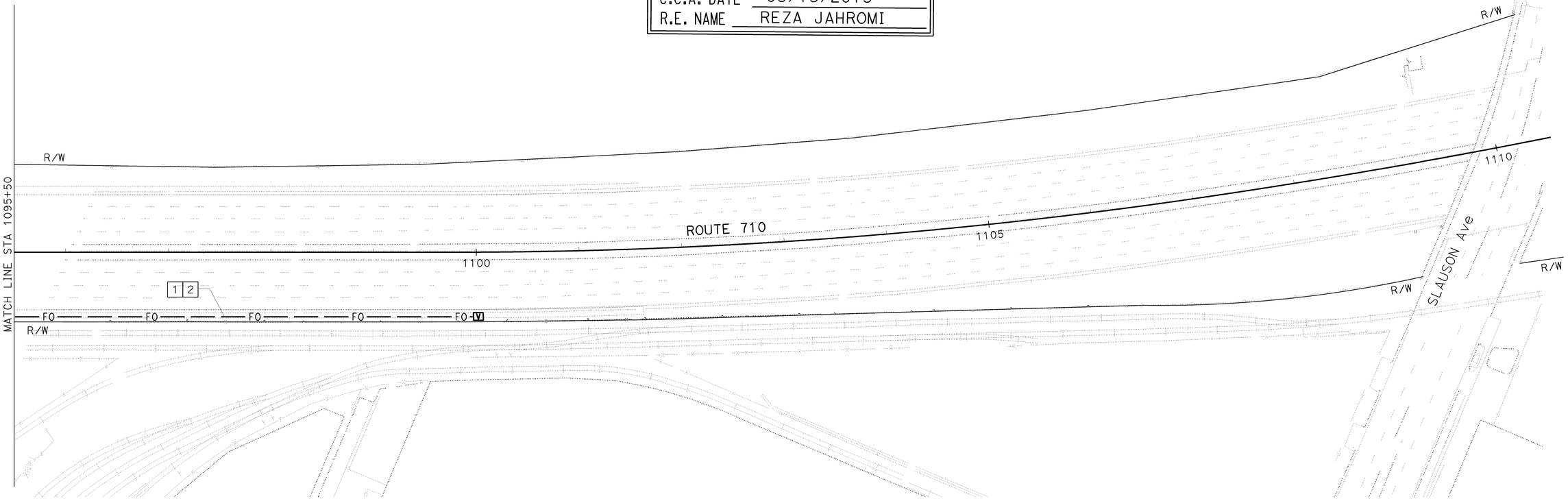
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

PROJECT NOTES: (THIS SHEET ONLY)

1 INSTALL 3-48SMFO AND 4 SIZE 25 INNERDUCTS IN 4"C, INSTALL 4"C, MT.

2 TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

COMMUNICATION SYSTEM

SCALE: 1"=50'

E-33

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF ITS

REVISED BY	DATE REVISED

LAST REVISION DATE PLOTTED => 08-OCT-2013
00-00-00 TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s111708
DGN FILE => 726900ua033.dgn

CU 07388

EA 269001

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

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI

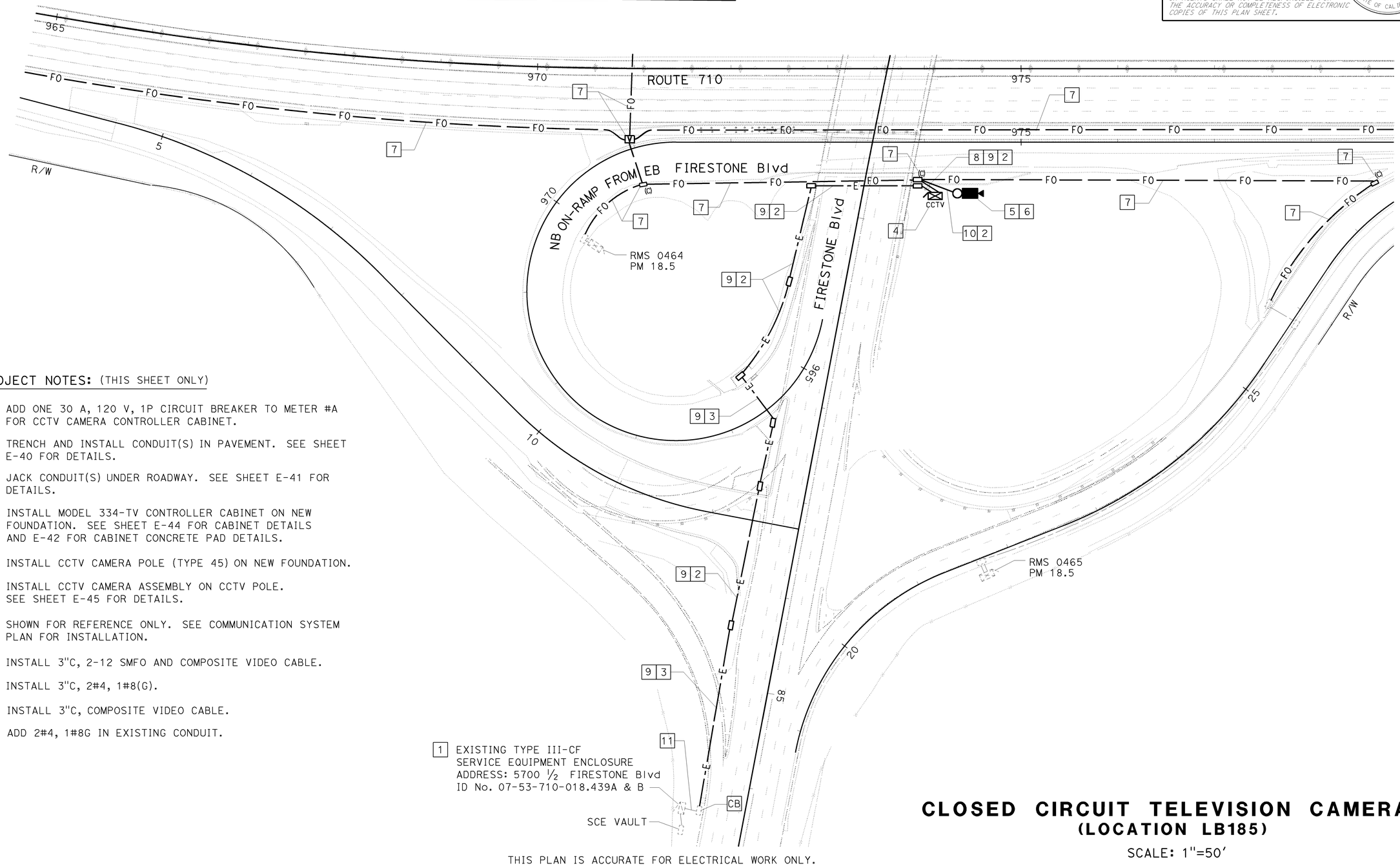
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	331	368

REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

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

4-20-09
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 SHEET.



PROJECT NOTES: (THIS SHEET ONLY)

1. ADD ONE 30 A, 120 V, 1P CIRCUIT BREAKER TO METER #A FOR CCTV CAMERA CONTROLLER CABINET.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-44 FOR CABINET DETAILS AND E-42 FOR CABINET CONCRETE PAD DETAILS.
5. INSTALL CCTV CAMERA POLE (TYPE 45) ON NEW FOUNDATION.
6. INSTALL CCTV CAMERA ASSEMBLY ON CCTV POLE. SEE SHEET E-45 FOR DETAILS.
7. SHOWN FOR REFERENCE ONLY. SEE COMMUNICATION SYSTEM PLAN FOR INSTALLATION.
8. INSTALL 3"C, 2-12 SMFO AND COMPOSITE VIDEO CABLE.
9. INSTALL 3"C, 2#4, 1#8(G).
10. INSTALL 3"C, COMPOSITE VIDEO CABLE.
11. ADD 2#4, 1#8G IN EXISTING CONDUIT.

1. EXISTING TYPE III-CF SERVICE EQUIPMENT ENCLOSURE
ADDRESS: 5700 ½ FIRESTONE Blvd
ID No. 07-53-710-018.439A & B

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

CLOSED CIRCUIT TELEVISION CAMERA
(LOCATION LB185)

SCALE: 1"=50'

E-34

CALCULATED-DESIGNED BY
CHECKED BY
CANDACE FUNG
JACQUELINE TAN
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR
JACQUELINE TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS

LAST REVISION 00-00-00
DATE PLOTTED => 08-OCT-2013
TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s111708
DGN FILE => 726900ua034.dgn
CU 07388
EA 269001

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

PROJECT NOTES: (THIS SHEET ONLY)

1. ADD ONE 30 A, 120 V, 1P CIRCUIT BREAKER FOR CCTV CAMERA CONTROLLER CABINET.
2. TRENCH AND INSTALL CONDUIT(S) IN SOIL. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-44 FOR CABINET DETAILS AND E-42 FOR CABINET CONCRETE PAD DETAILS.
5. INSTALL CCTV CAMERA POLE (TYPE 45) ON NEW FOUNDATION.
6. INSTALL CCTV CAMERA ASSEMBLY ON CCTV POLE. SEE SHEET E-45 FOR DETAILS.
7. SHOWN FOR REFERENCE ONLY. SEE COMMUNICATION SYSTEM PLAN FOR DETAILS.
8. INSTALL 3"C, 2-12SMFO.
9. INSTALL 3"C, 2#8, 1#8(G).
10. INSTALL 3"C, 2-12SMFO AND COMPOSITE VIDEO CABLE.
11. INSTALL 3"C, COMPOSITE VIDEO CALBE.
12. ADD 2#6, AND 1#8(G) IN EXISTING CONDUIT.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	332	368

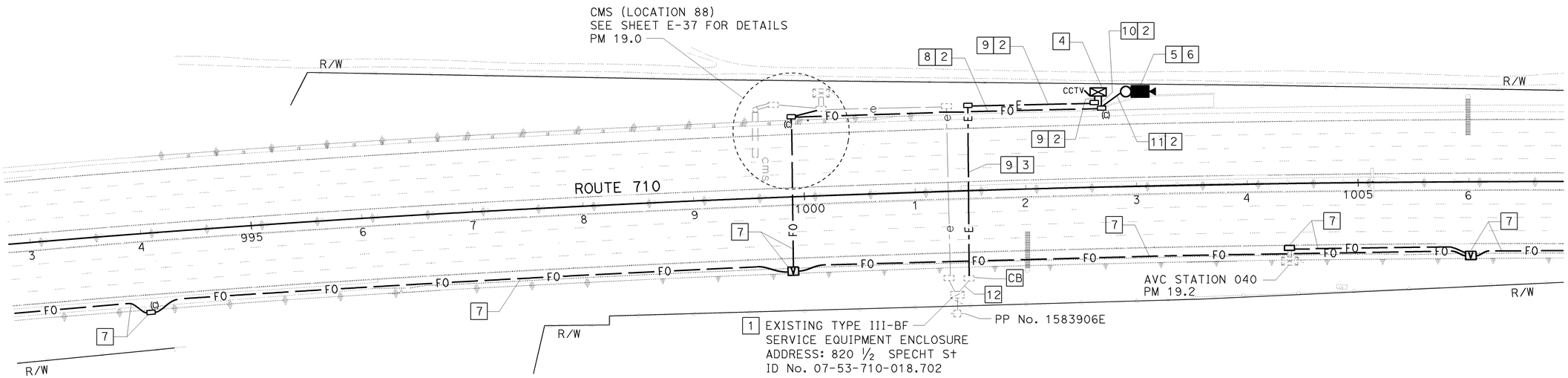
REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

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

4-20-09
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 SHEET.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI



CLOSED CIRCUIT TELEVISION CAMERA
(LOCATION LB191)

SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-35

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
REVISED BY | DATE REVISED
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION 00-00-00 | DATE PLOTTED => 08-OCT-2013 | TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s111708 | DGN FILE => 726900ua035.dgn | CU 07388 | EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	333	368

REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

4-20-09
PLANS APPROVAL DATE

CANDACE FUNG No. E16936 Exp. 06/30/09 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.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI

PROJECT NOTES: (THIS SHEET ONLY)

1. ADD ONE 30 A, 120 V, 1P CIRCUIT BREAKER FOR CCTV CAMERA CONTROLLER CABINET.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-40 FOR DETAILS.
3. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-41 FOR DETAILS.
4. INSTALL MODEL 334-TV CONTROLLER CABINET ON NEW FOUNDATION. SEE SHEET E-44 FOR CABINET DETAILS AND E-42 FOR CABINET CONCRETE PAD DETAILS.
5. INSTALL CCTV CAMERA POLE (TYPE 45) ON NEW FOUNDATION.
6. INSTALL CCTV CAMERA ASSEMBLY ON CCTV POLE. SEE SHEET E-45 FOR DETAILS.
7. SHOWN FOR REFERENCE ONLY. SEE COMMUNICATION SYSTEM PLAN FOR INSTALLATION.
8. INSTALL 3"C, 2-12SMFO.
9. INSTALL 3"C, 2#6, 1#8G.
10. INSTALL 3"C, COMPOSITE VIDEO CABLE.
11. ADD 2#6, 1#8(G) IN EXISTING CONDUIT.

SB OFF-RAMP TO EB FLORENCE Ave
SB ON-RAMP FROM WB FLORENCE Ave
FLORENCE Ave
ROUTE 710
NB OFF-RAMP TO EB FLORENCE Ave
NB ON-RAMP FROM WB FLORENCE Ave
R/W
RMS 0479 PM 19.5
RMS 0478 PM 19.7
RMS 0466 PM 19.6
RMS 0467 PM 19.8
CCTV
FO
E
CB

1 EXISTING TYPE III-CF
SERVICE EQUIPMENT ENCLOSURE
ADDRESS: 5700 ½ FLORENCE Ave
ID No. 07-53-710-019.500A & B

TO SCE VAULT
No. V5394701

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

CLOSED CIRCUIT TELEVISION CAMERA
(LOCATION LB198)

SCALE: 1"=50'

E-36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **OFFICE OF ITS**
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY / DATE REVISED:

LAST REVISION 00-00-00 | DATE PLOTTED => 08-OCT-2013 | TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s111708 | DGN FILE => 726900ua036.dgn | CU 07388 | EA 269001

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.9/20.8	334	368

REGISTERED ELECTRICAL ENGINEER — 12/2/08 DATE

4-20-09
PLANS APPROVAL DATE

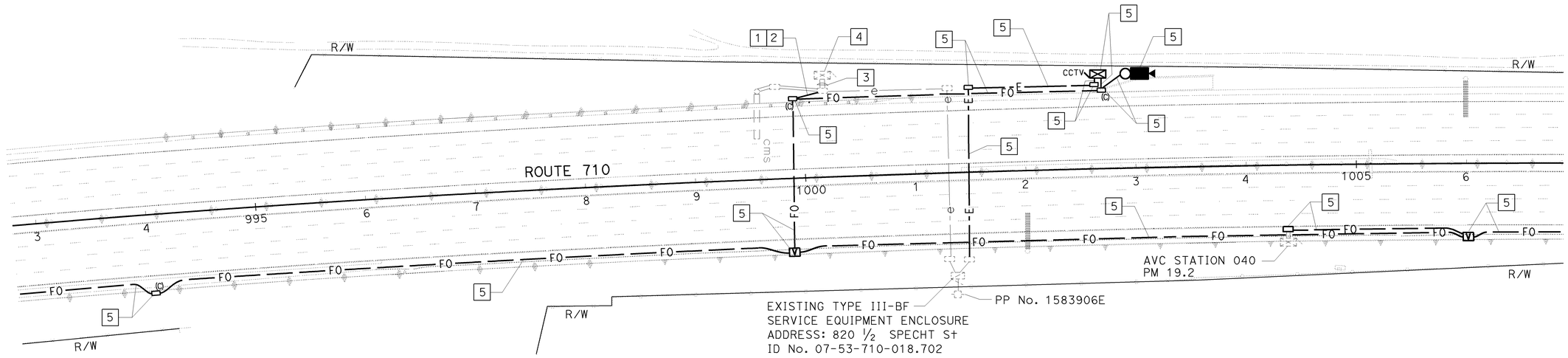
REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
Exp. 06/30/09
ELECTRICAL
STATE OF CALIFORNIA

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.

AS BUILT
CONTRACT No. 07-269004
C.C.A. DATE 03/13/2013
R.E. NAME REZA JAHROMI

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C, 12SMFO.
2. TRENCH AND INSTALL CONDUIT(S) IN SOIL. SEE SHEET E-40 FOR DETAILS.
3. ADD 12SMFO IN EXISTING CONDUIT.
4. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. CONNECT 12SMFO. SEE SHEET E-43 FOR DETAILS.
5. SHOWN FOR REFERENCE ONLY. SEE COMMUNICATION SYSTEM PLAN FOR DETAILS.



MODIFY
CHANGEABLE MESSAGE SIGN SYSTEM
(LOCATION 88)
SCALE: 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGENDS, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-21.

E-37

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY | DATE REVISED
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS

LAST REVISION: 00-00-00 DATE PLOTTED => 08-OCT-2013 TIME PLOTTED => 13:17

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s111708 DGN FILE => 726900ua037.dgn | CU 07388 | EA 269001

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-81 FOR DETAILS.
3. SPLICE 3-48SMFO TO EXISTING 3-48SMFO.
4. INSTALL 3-48SMFO AND 3 SIZE 1" INNERDUCTS IN 3½"C. INSTALL SPARE 3½"C, MT.
5. SEE BRIDGE STRUCTURE PLANS FOR BRIDGE DETAILS.
6. EXISTING 2-4"C, 3-48SMFO.
7. 2-3½"C, MT

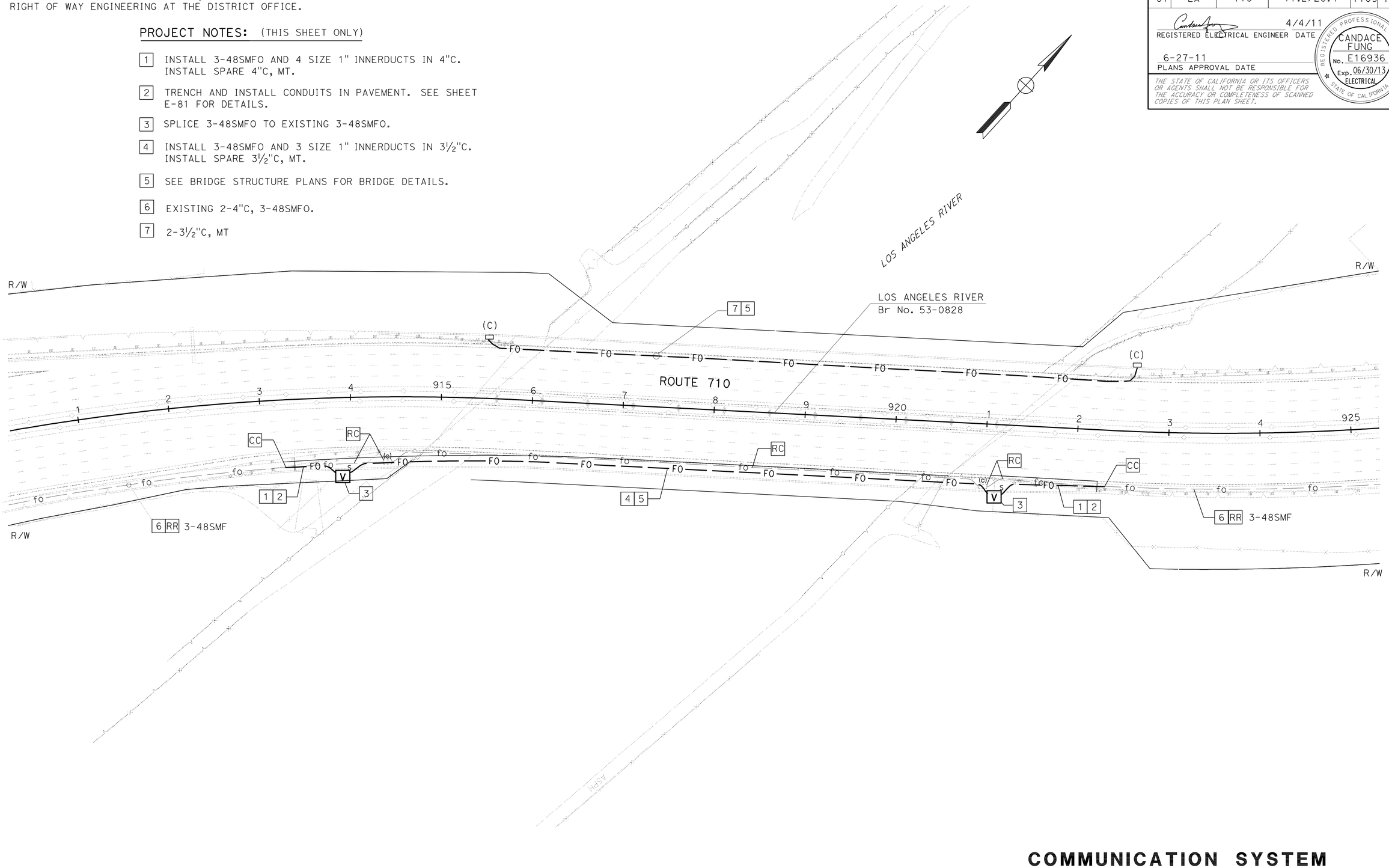
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1109	1507

REGISTERED ELECTRICAL ENGINEER — DATE 4/4/11

CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE 6-27-11

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



COMMUNICATION SYSTEM

SCALE: 1" = 50'

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

E-50

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY: CANDACE FUNG | JACQUELINE TAN
CHECKED BY
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
OFFICE OF ITS

LAST REVISION | DATE PLOTTED => 29-JUN-2011 | TIME PLOTTED => 17:09 | 00-00-00

BORDER LAST REVISED 7/1/2010 | USERNAME => trcarol | DGN FILE => 720211ua051.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1110	1507

REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

6-27-11
PLANS APPROVAL DATE

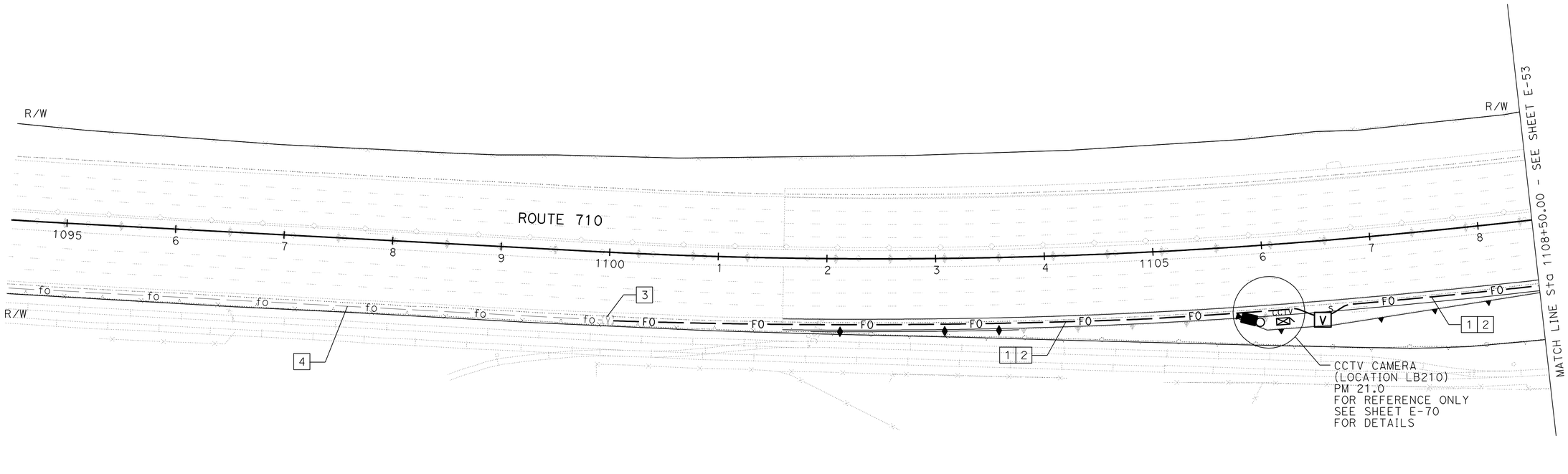
REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
Exp. 06/30/13
ELECTRICAL
STATE OF CALIFORNIA

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

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. INSTALL SPLICE CLOSURES. SPLICE 3-48SMFO TO EXISTING 3-48SMFO.
4. EXISTING 2-4"C, 3-48SMFO.



FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE: 1" = 50'

E-51

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
OFFICE OF ITS

LAST REVISION | DATE PLOTTED => 29-JUN-2011
00-00-00 | TIME PLOTTED => 16:59

BORDER LAST REVISED 7/1/2010 | USERNAME => trcarol | DGN FILE => 720211ua052.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1111	1507

REGISTERED ELECTRICAL ENGINEER 4/4/11 DATE

6-27-11
PLANS APPROVAL DATE

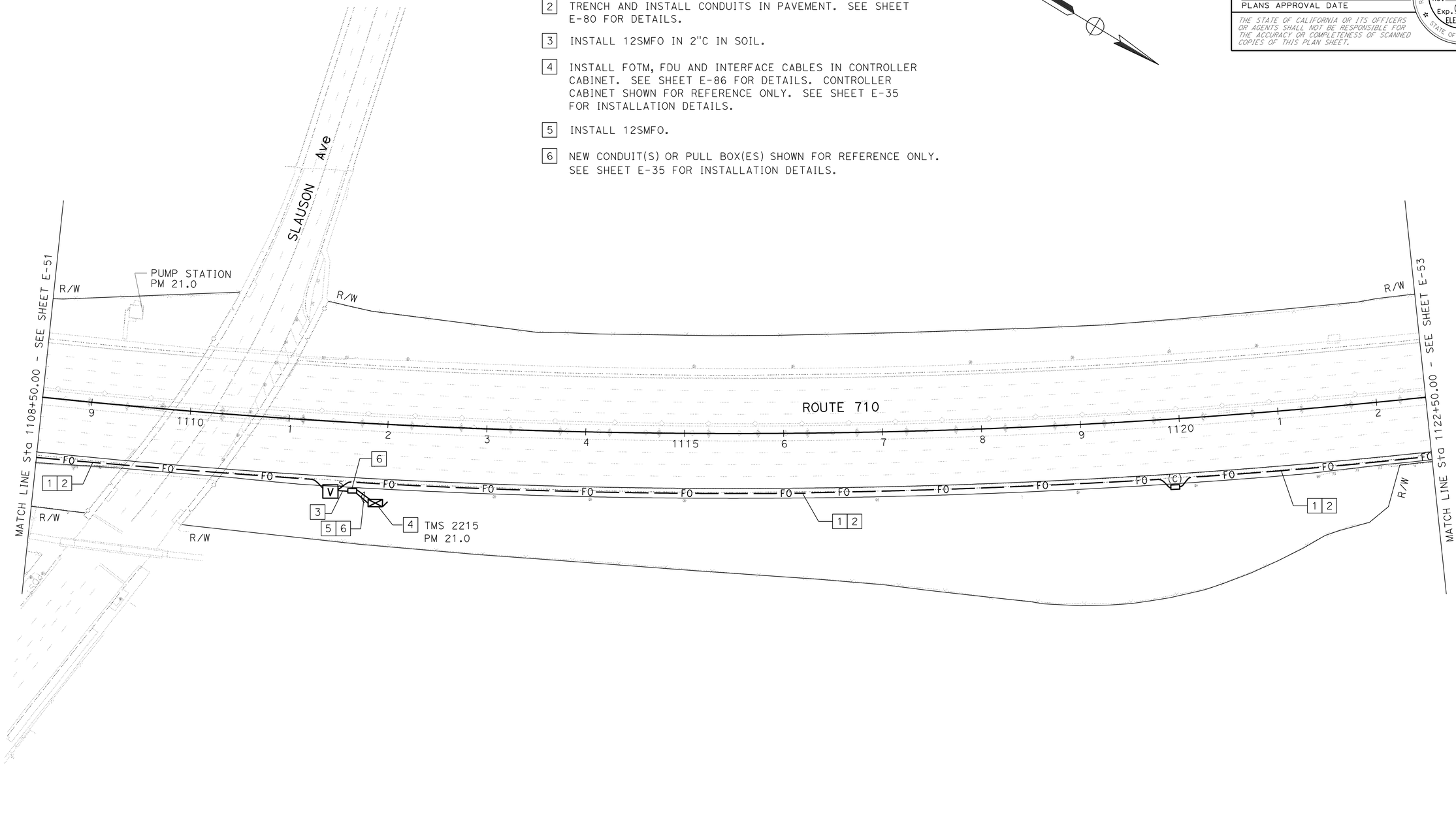
REGISTERED PROFESSIONAL ENGINEER CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL STATE OF CALIFORNIA

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

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. INSTALL 12SMFO IN 2"C IN SOIL.
4. INSTALL FOTM, FDU AND INTERFACE CABLES IN CONTROLLER CABINET. SEE SHEET E-86 FOR DETAILS. CONTROLLER CABINET SHOWN FOR REFERENCE ONLY. SEE SHEET E-35 FOR INSTALLATION DETAILS.
5. INSTALL 12SMFO.
6. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-35 FOR INSTALLATION DETAILS.



COMMUNICATION SYSTEM

SCALE: 1" = 50'

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

E-52

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® OFFICE OF ITS

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

LAST REVISION 00-00-00
DATE PLOTTED => 06-JUL-2011
TIME PLOTTED => 10:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1112	1507

REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

PLANS APPROVAL DATE — 6-27-11

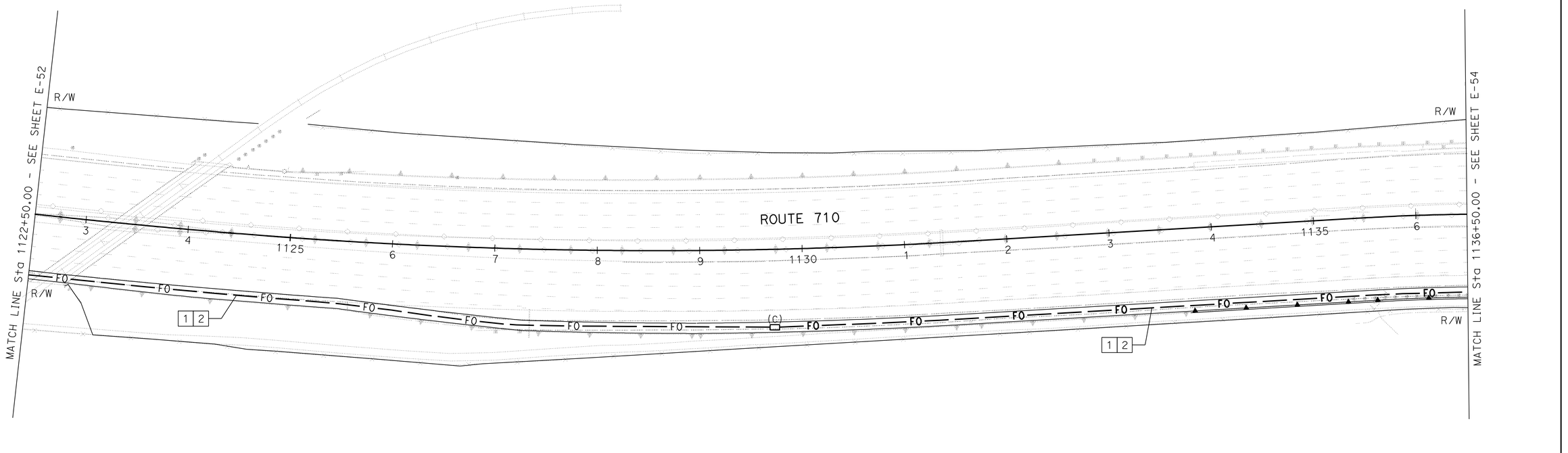
CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.



COMMUNICATION SYSTEM

SCALE: 1" = 50'

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

E-53

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
OFFICE OF ITS

LAST REVISION 00-00-00 | DATE PLOTTED => 29-JUN-2011 | TIME PLOTTED => 17:28

BORDER LAST REVISED 7/1/2010 | USERNAME => trcarol | DGN FILE => 720211ua054.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

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

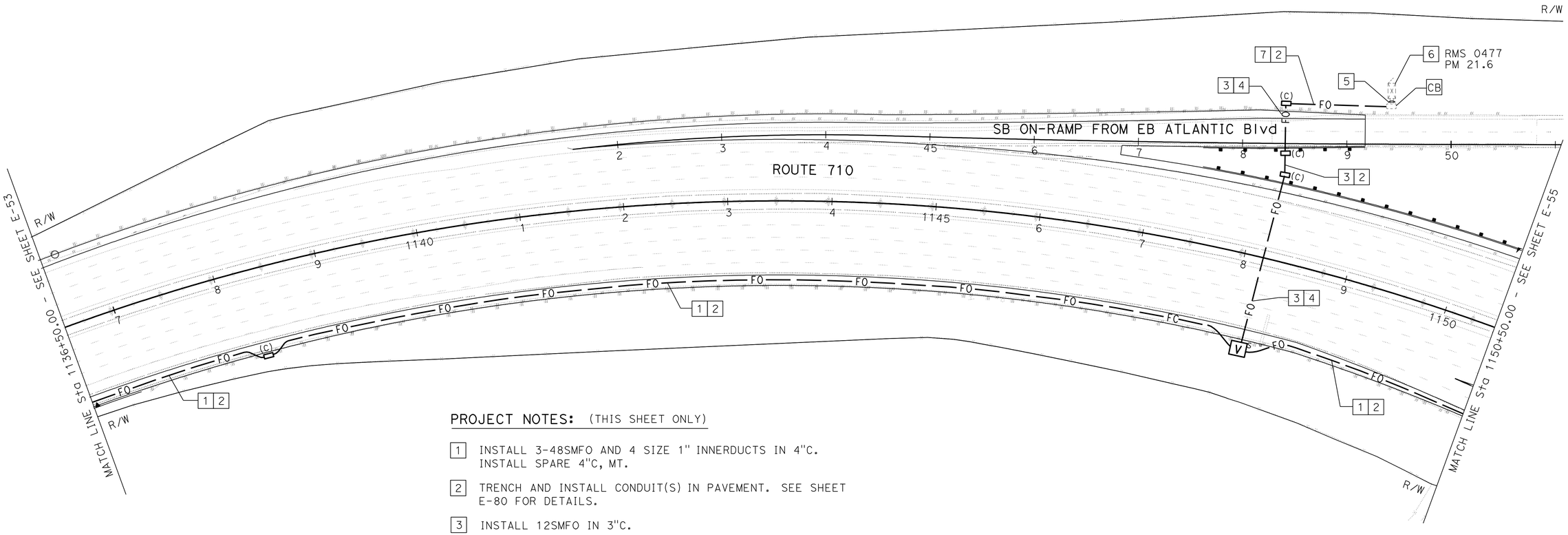
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1113	1507

REGISTERED ELECTRICAL ENGINEER — DATE 4/4/11

CANDACE FUNG
No. E16936
Exp. 06/30/13
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

6-27-11
PLANS APPROVAL DATE

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



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. INSTALL 12SMFO IN 3"C.
4. JACK CONDUIT UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
5. ADD 12SMFO IN EXISTING 3"C.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. SEE SHEET E-85 FOR DETAILS.
7. INSTALL 12SMFO IN 2"C.

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE: 1" = 50'

E-54

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY
DATE REVISED

FUNCTIONAL SUPERVISOR: JACQUELINE TAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION DATE PLOTTED => 29-JUN-2011
00-00-00 TIME PLOTTED => 16:59

BORDER LAST REVISED 7/1/2010

USERNAME => trcarol
DGN FILE => 720211ua055.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1885

PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1114	1507

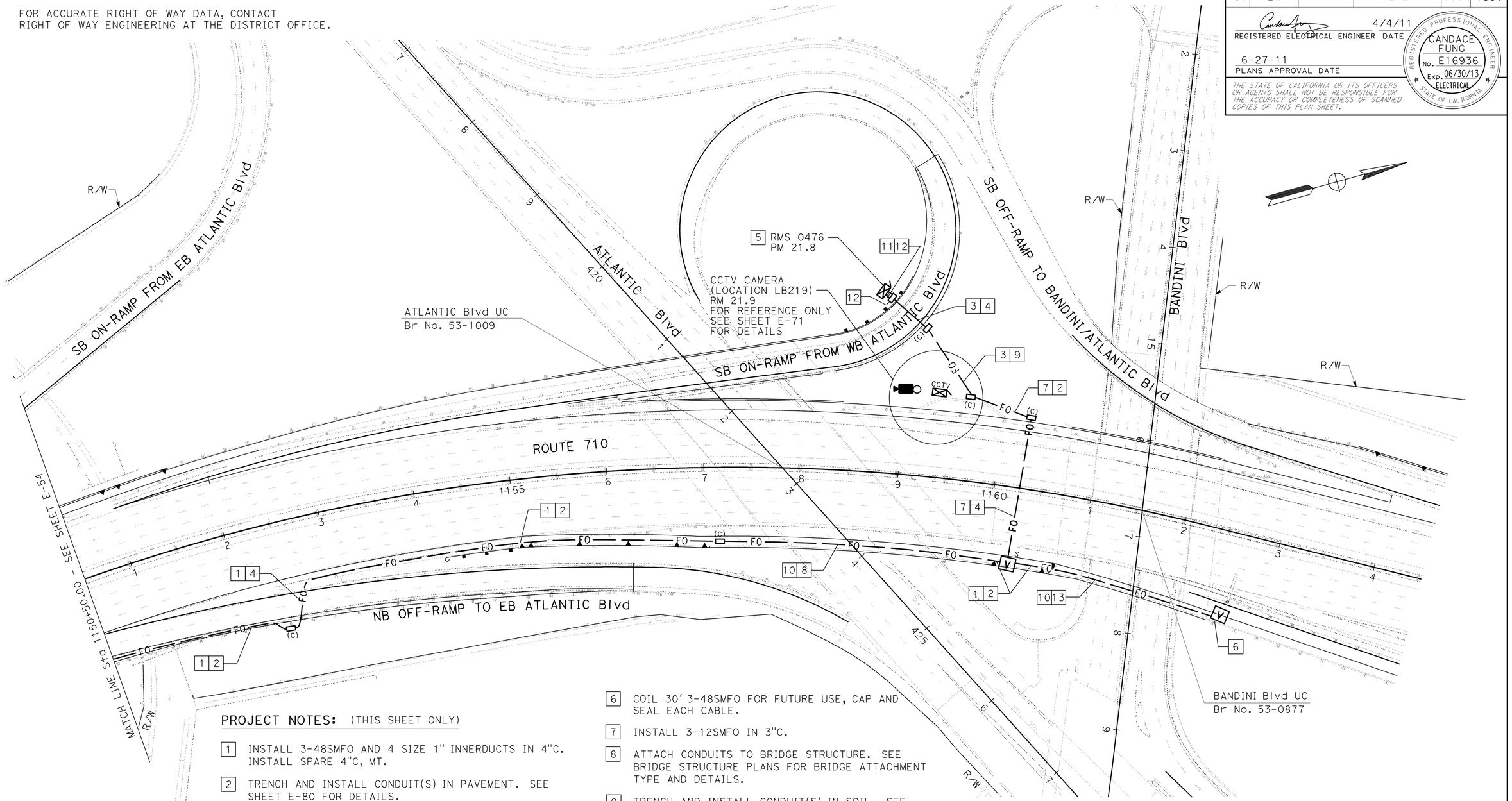
REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

PLANS APPROVAL DATE — 6-27-11

REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — Exp. 06/30/13 — ELECTRICAL — STATE OF CALIFORNIA

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

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



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. INSTALL 12SMFO IN 2"C.
4. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
5. INSTALL FOTM, FDU AND INTERFACE CABLES IN CONTROLLER CABINET. SEE SHEET E-86 FOR DETAILS. CONTROLLER CABINET SHOWN FOR REFERENCE ONLY. SEE SHEET E-37 FOR DETAILS.
6. COIL 30' 3-48SMFO FOR FUTURE USE, CAP AND SEAL EACH CABLE.
7. INSTALL 3-12SMFO IN 3"C.
8. ATTACH CONDUITS TO BRIDGE STRUCTURE. SEE BRIDGE STRUCTURE PLANS FOR BRIDGE ATTACHMENT TYPE AND DETAILS.
9. TRENCH AND INSTALL CONDUIT(S) IN SOIL. SEE SHEET E-80 FOR DETAILS.
10. INSTALL 3-48SMFO AND 3 SIZE 1" INNERDUCTS IN 3½"C. INSTALL SPARE 3½"C, MT.
11. INSTALL 12SMFO.
12. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-37 FOR INSTALLATION DETAILS.
13. ATTACH CONDUIT TO EXISTING CONCRETE BARRIER. INSTALLATION OF CONDUITS SIMILAR TO TRIGGS St UC. SEE SHEETS E-94 AND E-95.

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE: 1" = 50'

E-55

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 06-JUL-2011 | 00-00-00 | TIME PLOTTED => 11:15

BORDER LAST REVISED 7/1/2010 | USERNAME => trmikesl | DGN FILE => 720211ua056.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. JACK CONDUIT UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
4. INSTALL 2-12SMFO IN 3"C.
5. COIL 30' 3-48SMFO FOR FUTURE USE. CAP AND SEAL EACH CABLE.

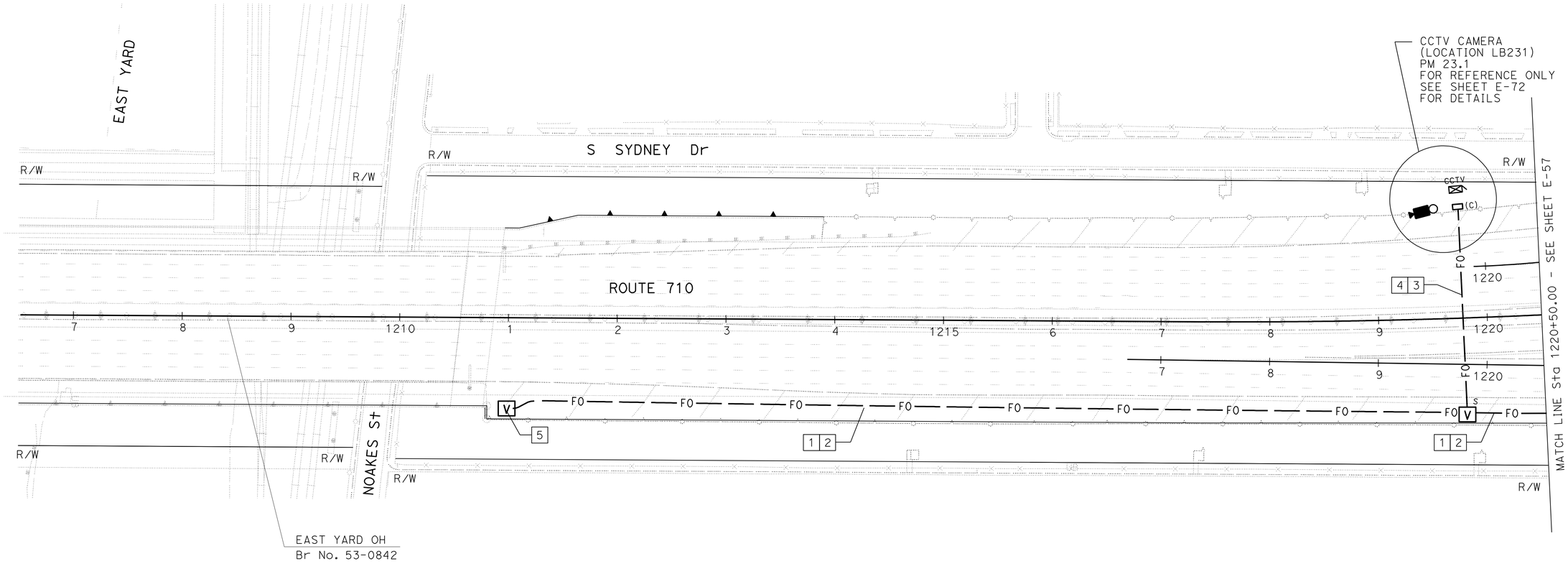
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1115	1507

4/4/11
REGISTERED ELECTRICAL ENGINEER DATE

6-27-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
Exp. 06/30/13
ELECTRICAL
STATE OF CALIFORNIA

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



COMMUNICATION SYSTEM

SCALE: 1" = 50'

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

E-56

REVISED BY	DATE REVISED

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
OFFICE OF ITS

LAST REVISION
DATE PLOTTED => 29-JUN-2011
TIME PLOTTED => 17:29
00-00-00

BORDER LAST REVISED 7/1/2010
USERNAME => trcarol
DGN FILE => 720211ua057.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1885
PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1116	1507

REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

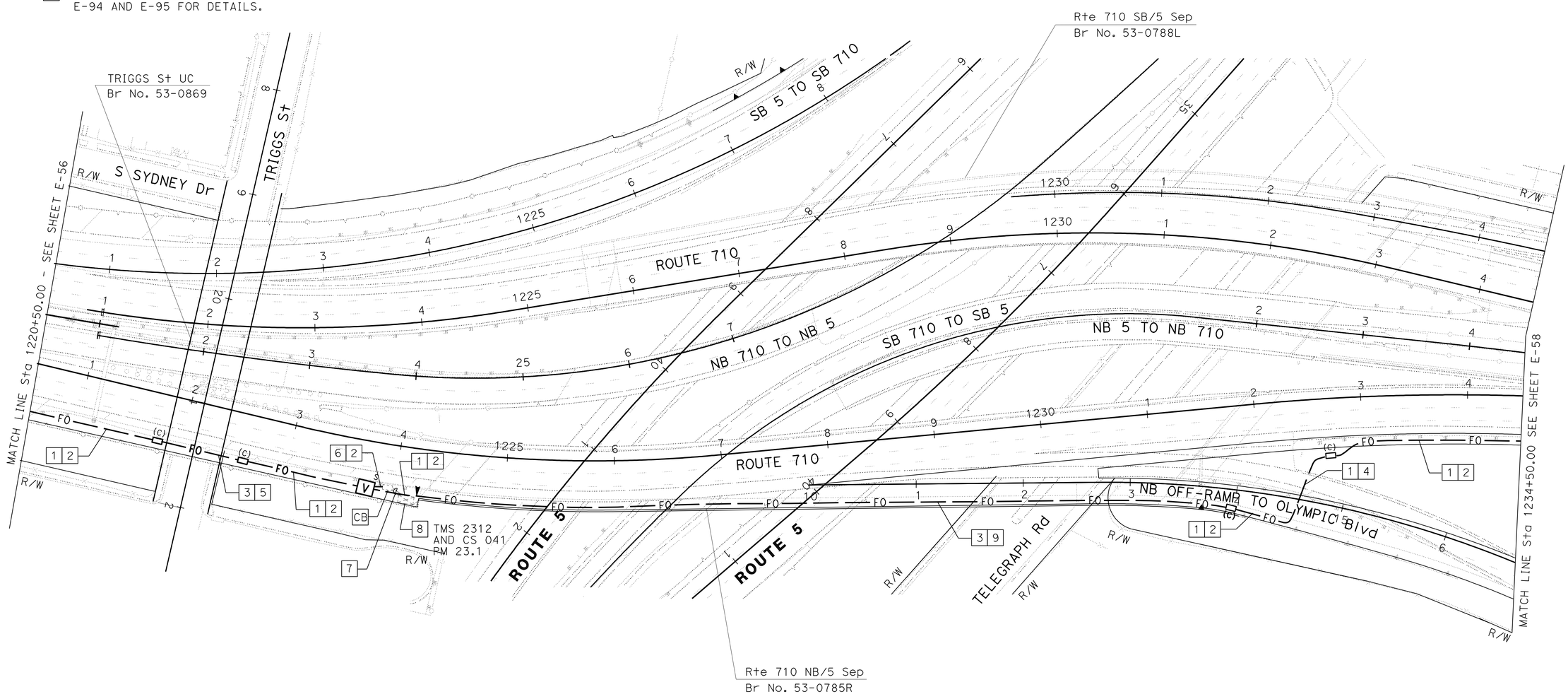
6-27-11
PLANS APPROVAL DATE

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

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. INSTALL 3-48SMFO AND 3 SIZE 1" INNERDUCTS IN 3½"C. INSTALL SPARE 3½"C, MT.
4. JACK CONDUITS UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
5. ATTACH CONDUITS TO EXISTING CONCRETE BARRIER. SEE SHEETS E-94 AND E-95 FOR DETAILS.
6. INSTALL 12SMFO IN 2"C.
7. ADD 12SMFO IN EXISTING 3"C.
8. INSTALL FOTM, FDU AND INTEREFACE CABLES IN EXISTING CONTROLLER CABINET. SEE SHEET E-85 FOR DETAILS.
9. SEE BRIDGE STRUCTURE PLANS FOR BRIDGE DETAILS.



FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE: 1" = 50'

E-57

REVISED BY | DATE REVISED
CANDACE FUNG | JACQUELINE TAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS
Caltrans

LAST REVISION | DATE PLOTTED => 29-JUN-2011 | TIME PLOTTED => 17:00
00-00-00

BORDER LAST REVISED 7/1/2010 | USERNAME => trcarol | DGN FILE => 720211ua058.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. INSTALL 12SMFO IN 3"C.
4. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
5. ADD 12SMFO IN EXISTING 3"C.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. SEE SHEET E-85 FOR DETAILS.
7. SEE BRIDGE STRUCTURE PLANS FOR BRIDGE DETAILS.
8. INSTALL 3-48SMFO AND 3 SIZE 1" INNERDUCTS IN 3½"C. INSTALL SPARE 3½"C, MT.
9. INSTALL 12SMFO IN 2"C.

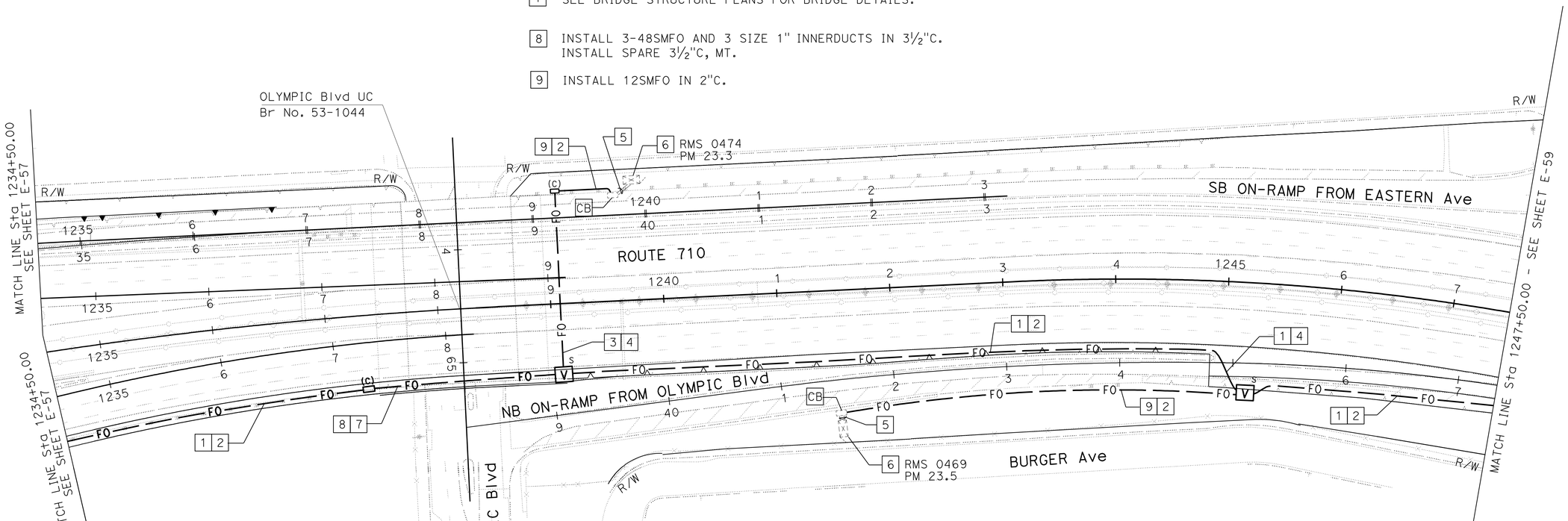
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1117	1507

REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

6-27-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — Exp. 06/30/13 — ELECTRICAL — STATE OF CALIFORNIA

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



FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE: 1" = 50'

E-58

CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY / DATE REVISED
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS

LAST REVISION DATE PLOTTED => 29-JUN-2011
00-00-00 TIME PLOTTED => 17:00

BORDER LAST REVISED 7/1/2010 | USERNAME => trcarol | DGN FILE => 720211ua059.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1118	1507

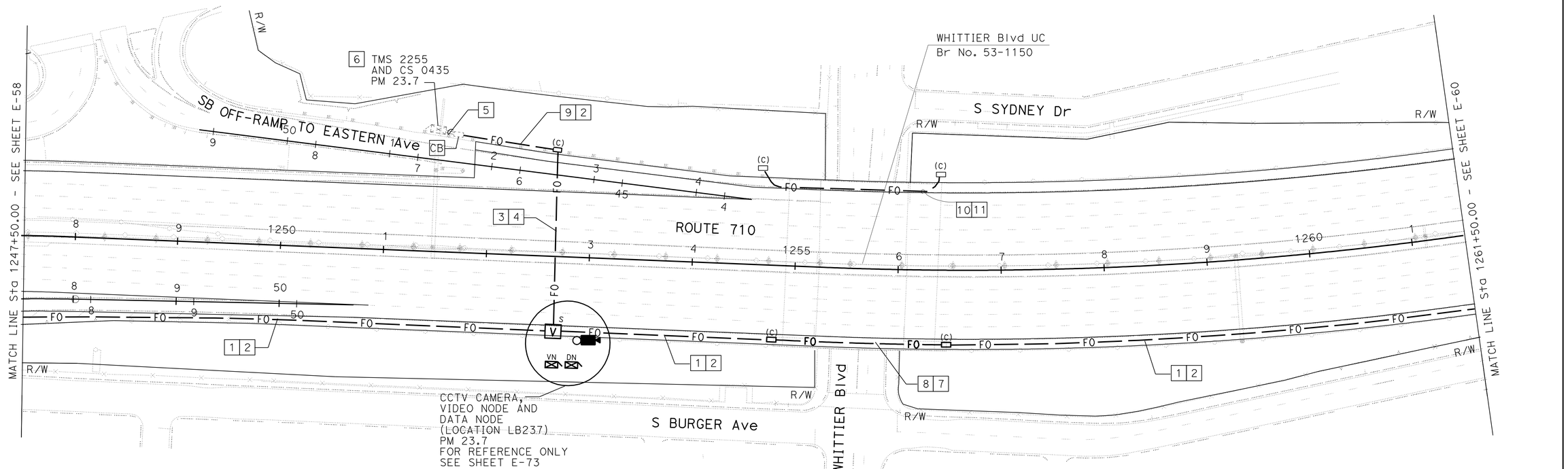
REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

6-27-11
PLANS APPROVAL DATE

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

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



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. INSTALL 12SMFO IN 3"C.
4. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
5. ADD 12SMFO IN EXISTING 3"C.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. SEE SHEET E-85 FOR DETAILS.
7. ATTACH CONDUITS TO BRIDGE STRUCTURE. SEE BRIDGE STRUCTURE PLANS FOR BRIDGE ATTACHMENT TYPE AND DETAILS.
8. INSTALL 3-48SMFO AND 3 SIZE 1" INNERDUCTS IN 3½"C. INSTALL SPARE 3½"C, MT.
9. INSTALL 12SMFO IN 2"C.
10. 2-3½"C, MT.
11. SEE BRIDGES STRUCTURE PLANS FOR BRIDGE DETAILS.

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE: 1" = 50'

E-59

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS
Caltrans®

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

LAST REVISION | DATE PLOTTED => 06-JUL-2011 | TIME PLOTTED => 10:37 | 00-00-00

BORDER LAST REVISED 7/1/2010 | USERNAME => trmikesl | DGN FILE => 720211ua060.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1119	1507

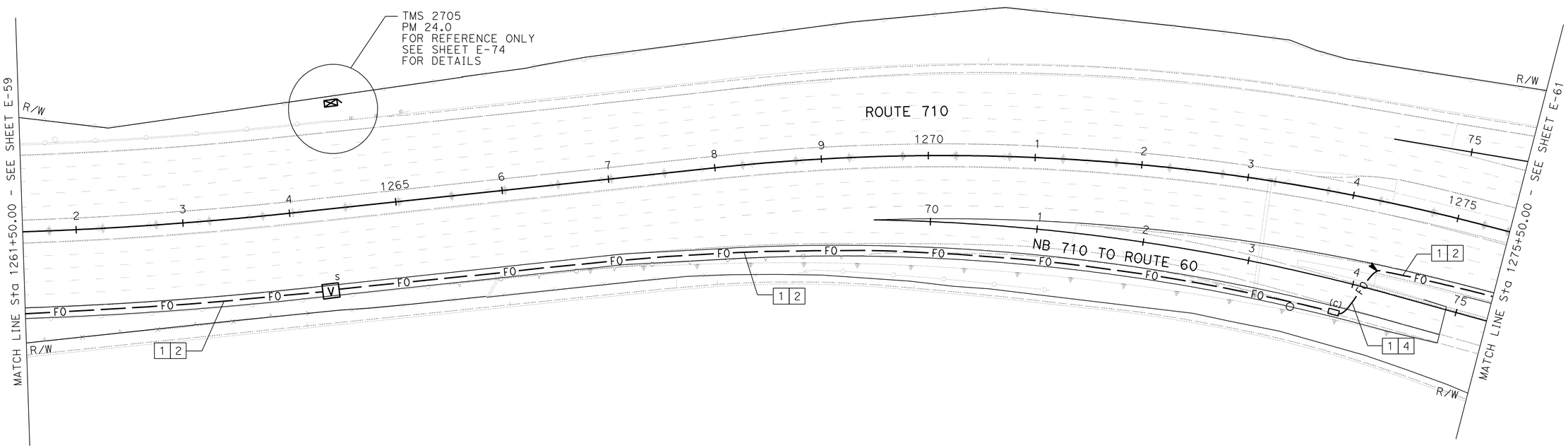
REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

6-27-11
PLANS APPROVAL DATE

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

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



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUITS IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE: 1" = 50'

E-60

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY | DATE REVISED

LAST REVISION DATE PLOTTED => 29-JUN-2011
00-00-00 TIME PLOTTED => 17:00

BORDER LAST REVISED 7/1/2010 | USERNAME => trcarol | DGN FILE => 720211ua061.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1120	1507

REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

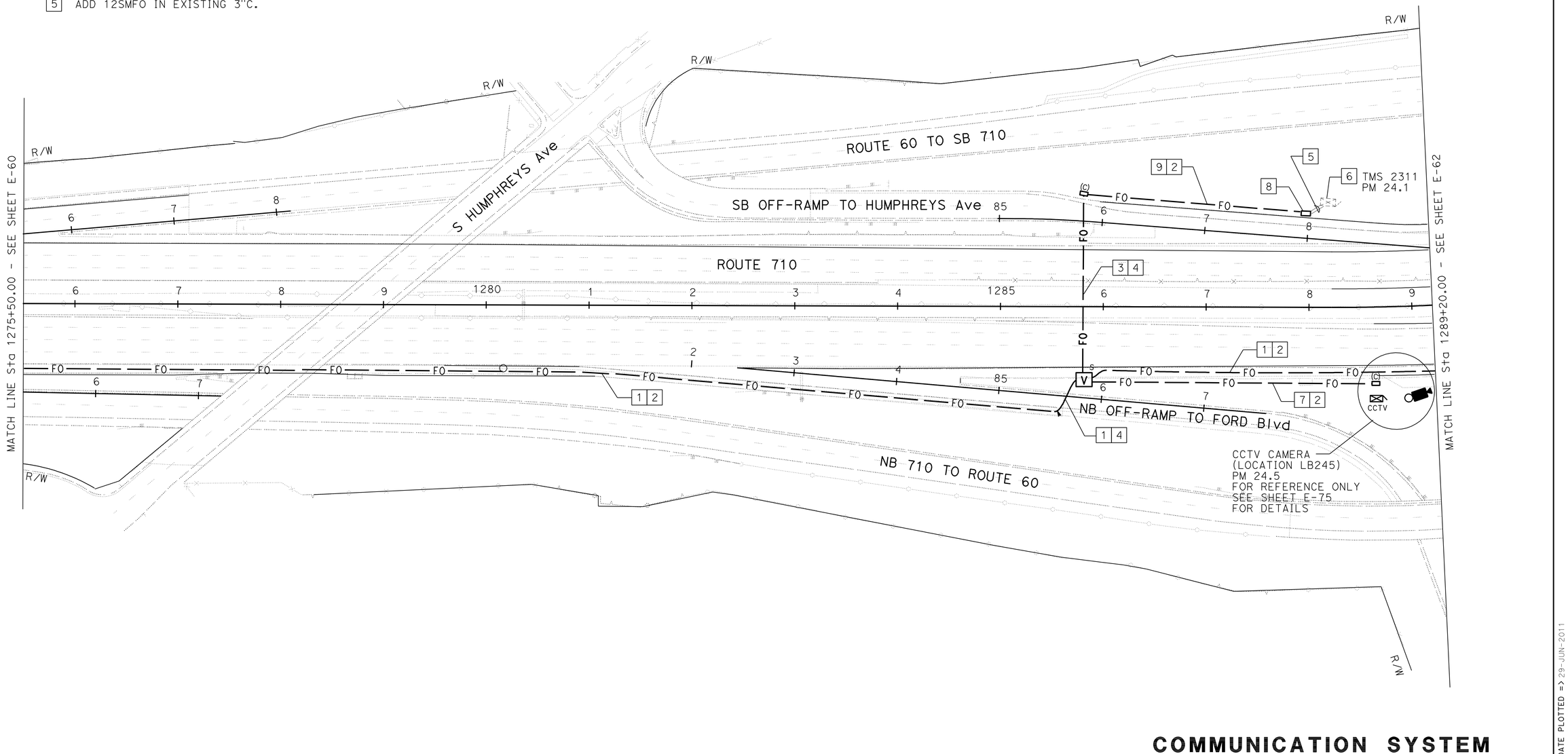
6-27-11
PLANS APPROVAL DATE

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

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. INSTALL 12SMFO IN 3"C.
4. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
5. ADD 12SMFO IN EXISTING 3"C.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN EXISTING CONTROLLER CABINET. SEE SHEET E-85 FOR DETAILS.
7. INSTALL 2-12SMFO IN 2"C.
8. PULL BOX SHOWN FOR REFERENCE ONLY. SEE SHEET E-37 FOR DETAILS.
9. INSTALL 12SMFO IN 2"C.



COMMUNICATION SYSTEM

SCALE: 1" = 50'

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

E-61

CANDACE FUNG — CALCULATED-DESIGNED BY
JACQUELINE TAN — CHECKED BY
JACQUELINE TAN — FUNCTIONAL SUPERVISOR
REVISED BY — DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS

LAST REVISION 00-00-00 | DATE PLOTTED => 29-JUN-2011 | TIME PLOTTED => 17:29

BORDER LAST REVISED 7/1/2010 | USERNAME => trcarol | DGN FILE => 720211ua062.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1121	1507

REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

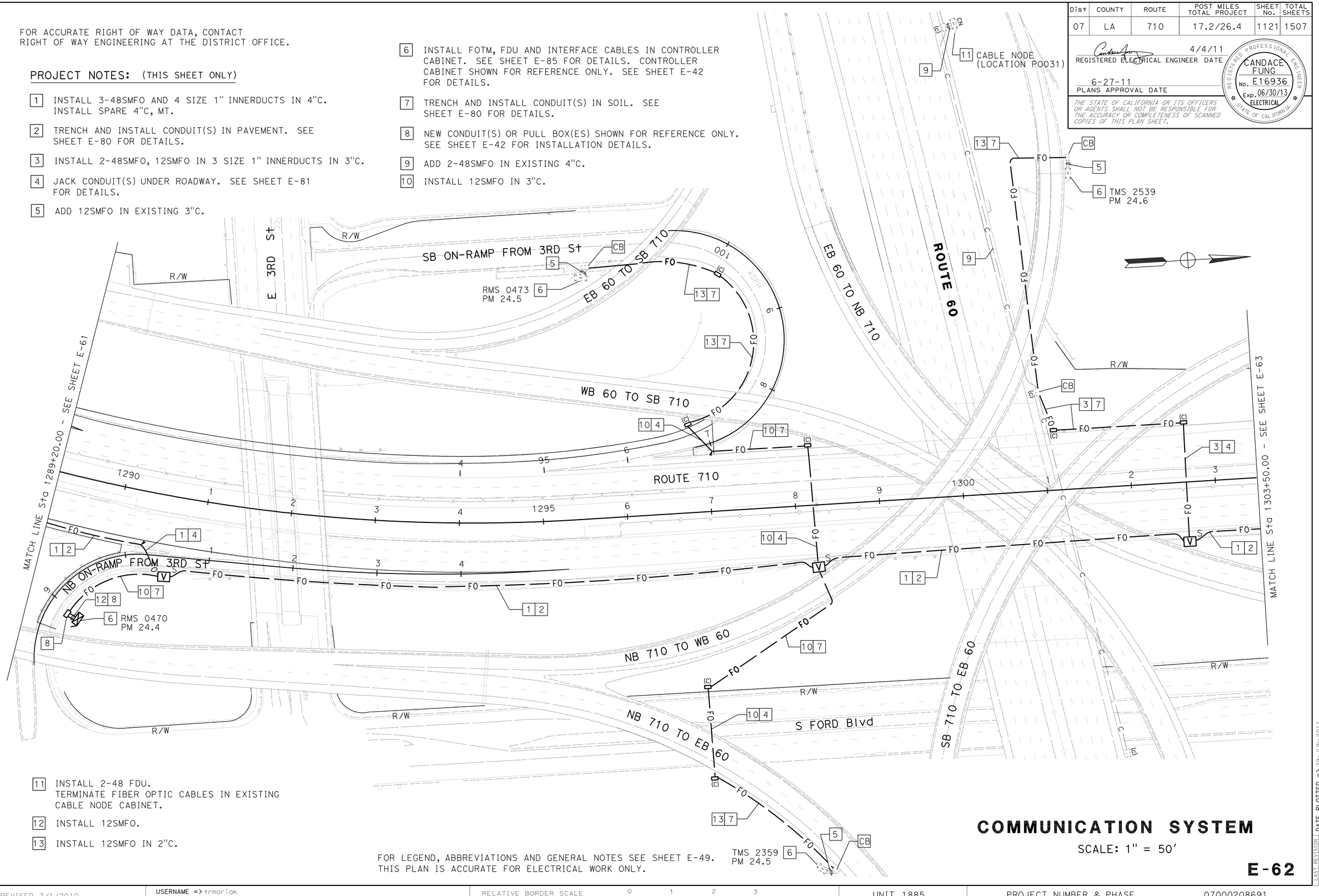
6-27-11
PLANS APPROVAL DATE

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

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

PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL 3-48SMFO AND 4 SIZE 1" INNERDUCTS IN 4"C. INSTALL SPARE 4"C, MT.
2. TRENCH AND INSTALL CONDUIT(S) IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. INSTALL 2-48SMFO, 12SMFO IN 3 SIZE 1" INNERDUCTS IN 3"C.
4. JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
5. ADD 12SMFO IN EXISTING 3"C.
6. INSTALL FOTM, FDU AND INTERFACE CABLES IN CONTROLLER CABINET. SEE SHEET E-85 FOR DETAILS. CONTROLLER CABINET SHOWN FOR REFERENCE ONLY. SEE SHEET E-42 FOR DETAILS.
7. TRENCH AND INSTALL CONDUIT(S) IN SOIL. SEE SHEET E-80 FOR DETAILS.
8. NEW CONDUIT(S) OR PULL BOX(ES) SHOWN FOR REFERENCE ONLY. SEE SHEET E-42 FOR INSTALLATION DETAILS.
9. ADD 2-48SMFO IN EXISTING 4"C.
10. INSTALL 12SMFO IN 3"C.



11. INSTALL 2-48 FDU. TERMINATE FIBER OPTIC CABLES IN EXISTING CABLE NODE CABINET.
12. INSTALL 12SMFO.
13. INSTALL 12SMFO IN 2"C.

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE: 1" = 50'

E-62

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 29-JUN-2011 | TIME PLOTTED => 15:48 | 00-00-00

BORDER LAST REVISED 7/1/2010 | USERNAME => trmariak | DGN FILE => 720211ua063.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1129	1507

REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

PLANS APPROVAL DATE — 6-27-11

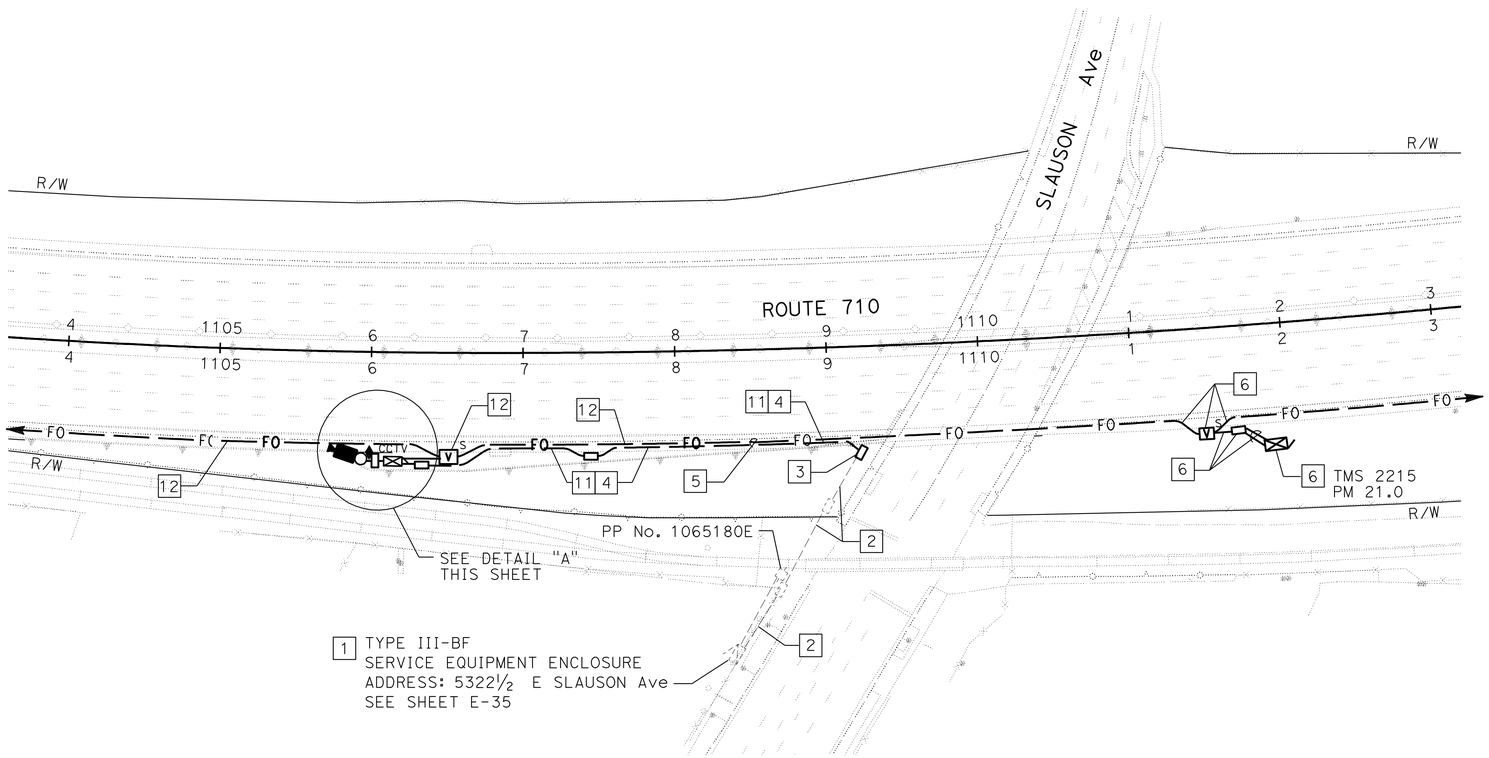
REGISTERED PROFESSIONAL ENGINEER — CANDACE FUNG — No. E16936 — Exp. 06/30/13 — ELECTRICAL — STATE OF CALIFORNIA

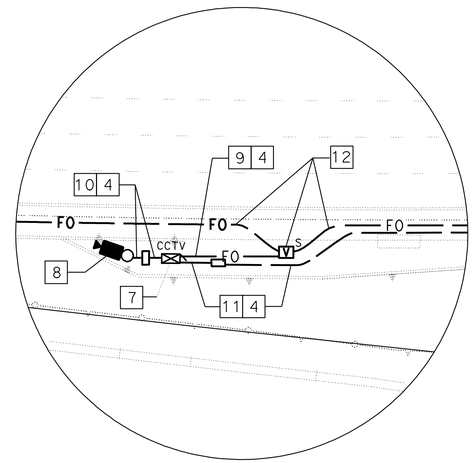
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

PROJECT NOTES: (THIS SHEET ONLY)

1. ADD ONE 30 A, 120 V, 1P CIRCUIT BREAKER FOR CCTV CAMERA CONTROLLER CABINET.
2. ADD 2#8, IN EXISTING 1½"C.
3. NEW PULL BOX SHOWN FOR REFERENCE ONLY. SEE SHEET E-35 FOR INSTALLATION DETAILS.
4. TRENCH AND INSTALL CONDUIT IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
5. INSTALL CONDUITS IN SAME TRENCH.
6. SHOWN FOR REFERENCE ONLY. SEE SHEETS E-35 AND E-52 FOR INSTALLATION DETAILS.
7. INSTALL MODEL 334-TV CONTROLLER CABINET. SEE SHEET E-84 AND E-90 FOR CONTROLLER CABINET FOUNDATION AND CABINET WIRING DETAILS.
8. INSTALL CCTV CAMERA POLE TYPE CCTV 45. INSTALL CCTV CAMERA ASSEMBLY ON POLE. SEE SHEET E-91 FOR DETAILS.
9. 3"C, 2-12SMFO.
10. 3"C, COMPOSITE VIDEO CABLE. SEE SHEET E-91 AND E-92 FOR DETAILS.
11. 3"C, 2#8, 1#8G.
12. SHOWN FOR REFERENCE ONLY. SEE SHEET E-51 FOR INSTALLATION DETAILS.





DETAIL "A"
NO SCALE

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB210)

SCALE: 1" = 50'

E-70

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
OFFICE OF ITS

LAST REVISION DATE PLOTTED => 06-JUL-2011
00-00-00 TIME PLOTTED => 10:37

BORDER LAST REVISED 7/1/2010
USERNAME => trmikesl
DGN FILE => 720211ua071.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1885
PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1130	1507

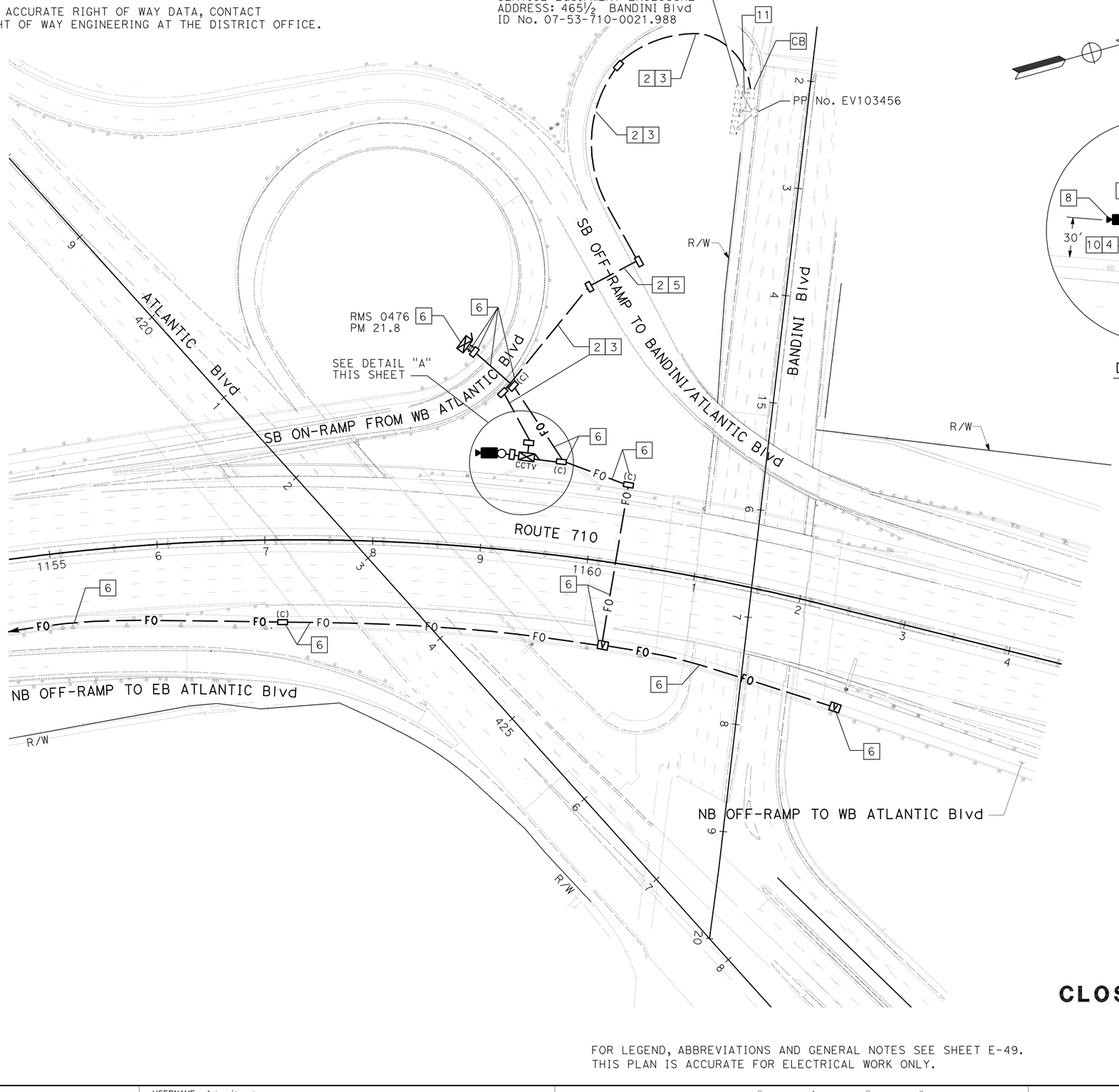
REGISTERED ELECTRICAL ENGINEER — 4/4/11 DATE

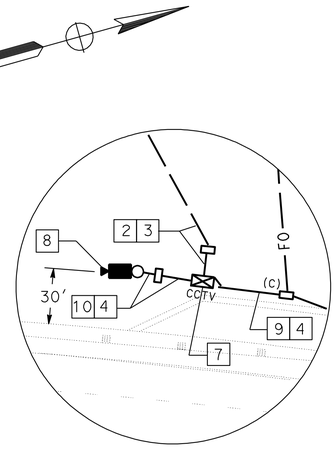
CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

6-27-11
PLANS APPROVAL DATE

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

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





DETAIL "A"
NO SCALE

PROJECT NOTES: (THIS SHEET ONLY)

1. ADD ONE 30 A, 120 V, 1P CIRCUIT BREAKER FOR CCTV CAMERA CONTROLLER CABINET.
2. INSTALL 3"C, 2#6, 1#6G.
3. TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-80 FOR DETAILS.
4. TRENCH AND INSTALL CONDUIT IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
5. JACK CONDUIT UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
6. SHOWN FOR REFERENCE ONLY. SEE COMMUNICATION SYSTEM PLAN SHEET E-55 FOR INSTALLATION DETAILS.
7. INSTALL MODEL 334-TV CONTROLLER CABINET. SEE SHEET E-84 AND E-90 FOR CONTROLLER CABINET FOUNDATION AND CABINET WIRING DETAILS.
8. INSTALL CCTV CAMERA POLE TYPE CCTV 45. INSTALL CCTV CAMERA ASSEMBLY ON POLE. SEE SHEET E-91 FOR DETAILS.
9. 3"C, 2-12SMFO.
10. 3"C, COMPOSITE VIDEO CABLE. SEE SHEET E-91 AND E-92 FOR DETAILS.
11. ADD 2#6, 1#6G IN EXISTING 1½"C.

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB219)

SCALE: 1" = 50'

E-71

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS

LAST REVISION DATE PLOTTED => 06-JUL-2011
TIME PLOTTED => 10:37
00-00-00

BORDER LAST REVISED 7/1/2010
USERNAME => trmikesl
DGN FILE => 720211ua072.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1885
PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1131	1507

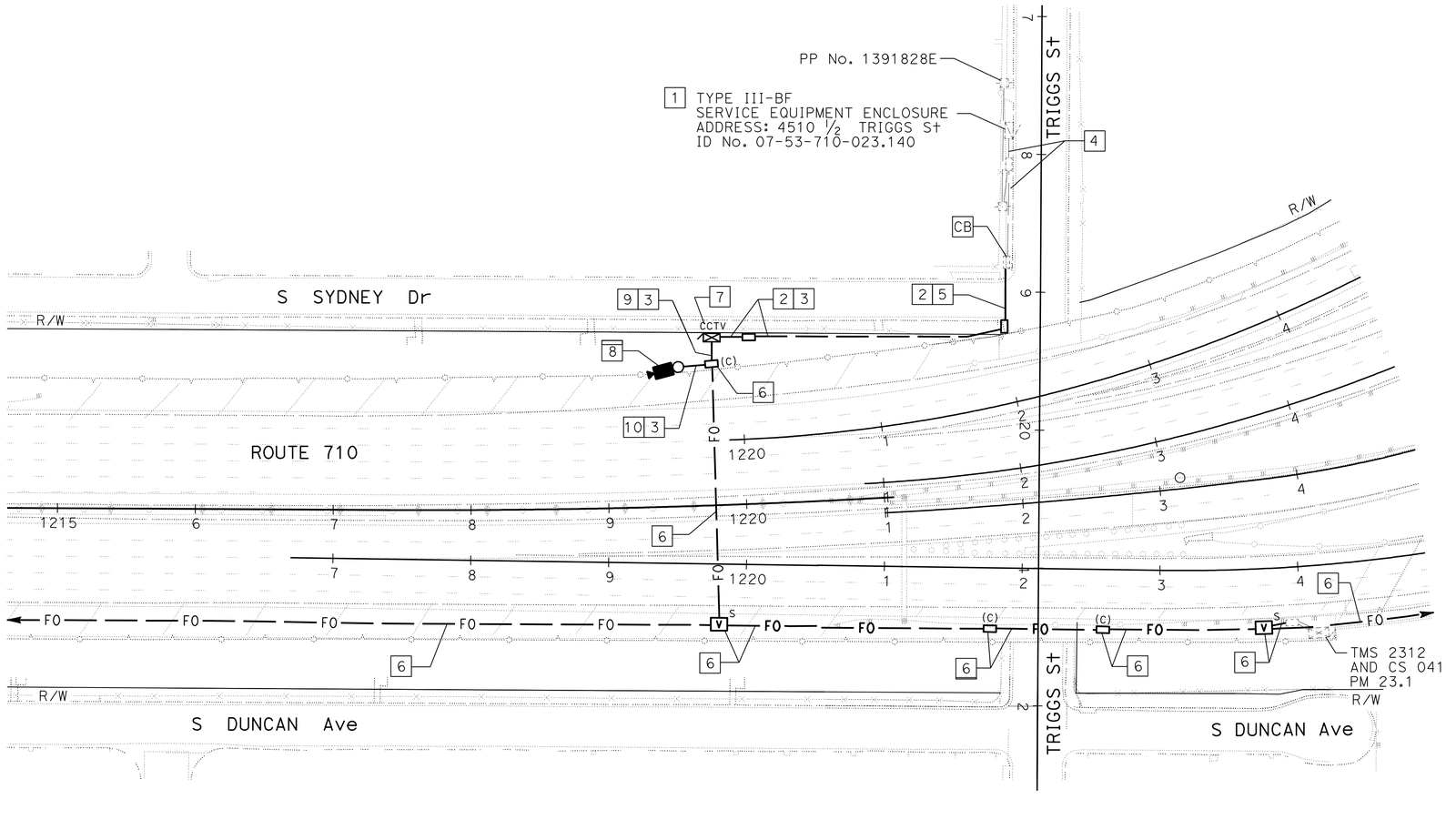
REGISTERED ELECTRICAL ENGINEER — DATE 4/4/11

CANDACE FUNG No. E16936 Exp. 06/30/13 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE 6-27-11

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

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



PROJECT NOTES: (THIS SHEET ONLY)

1. ADD ONE 30 A, 120 V, 1P CIRCUIT BREAKER FOR CCTV CAMERA CONTROLLER CABINET.
2. 3"C, 2#8, 1#8G.
3. TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-80 FOR DETAILS.
4. ADD 2#8 AND 1#8G IN EXISTING 1½"C.
5. JACK CONDUIT UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
6. SHOWN FOR REFERENCE ONLY. SEE COMMUNICATION SYSTEM PLAN SHEETS E-56 AND E-57 FOR INSTALLATION DETAILS.
7. INSTALL MODEL 334-TV CONTROLLER CABINET. SEE SHEET E-84 AND E-90 FOR CABINET FOUNDATION AND CABINET WIRING DETAILS.
8. INSTALL CCTV CAMERA POLE TYPE CCTV 45 BEHIND SOUNDWALL. INSTALL CCTV CAMERA ASSEMBLY ON POLE. SEE SHEET E-91 FOR DETAILS.
9. 3"C, 2-12SMFO AND COMPOSITE VIDEO CABLE.
10. 3"C, COMPOSITE VIDEO CABLE. SEE SHEET E-91 AND E-92 FOR DETAILS.

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB231)

SCALE: 1" = 50'

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

E-72

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 29-JUN-2011 | TIME PLOTTED => 19:48 | 00-00-00

BORDER LAST REVISED 7/1/2010 | USERNAME => trphils | DGN FILE => 720211ua073.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1132	1507

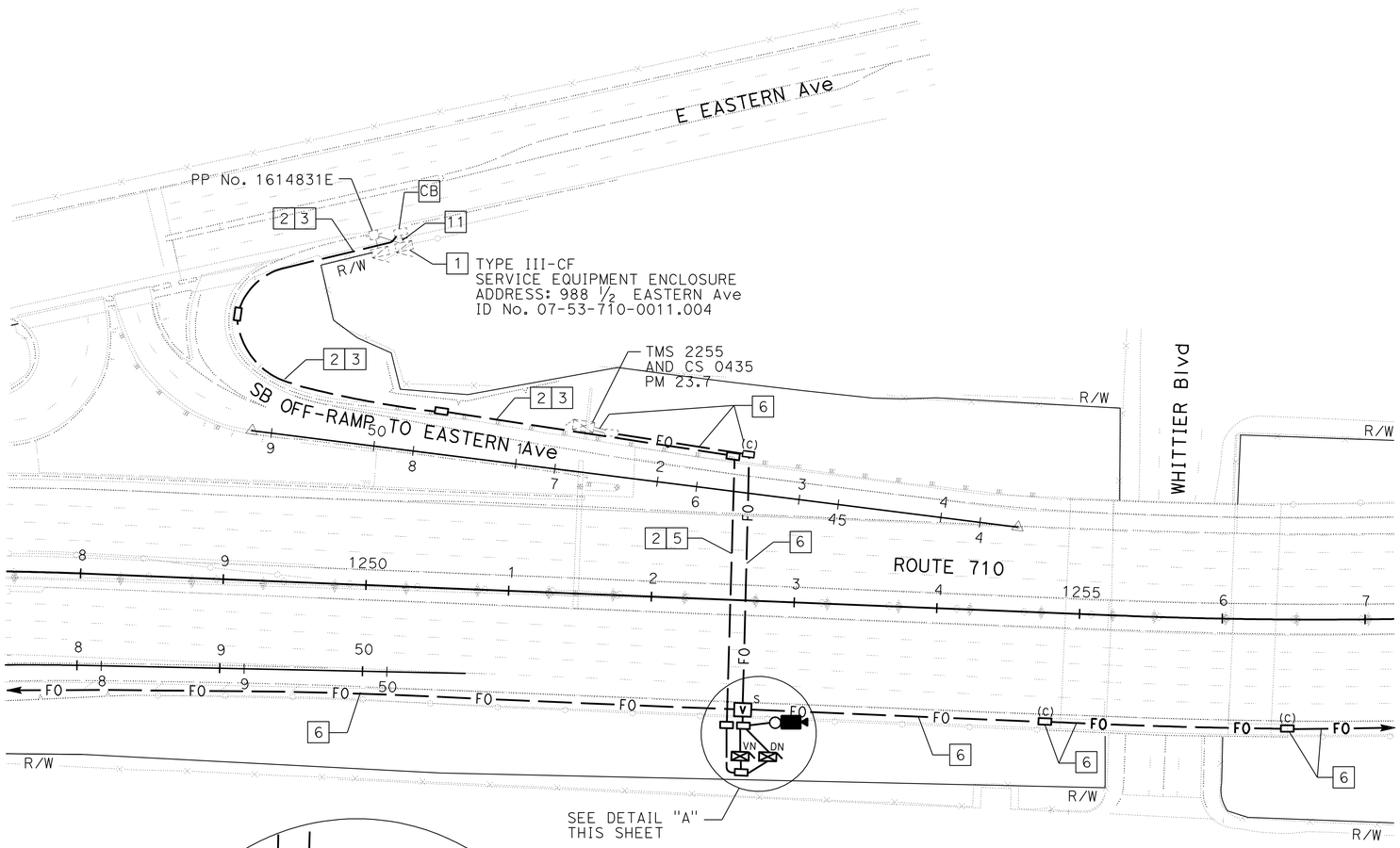
4/4/11
REGISTERED ELECTRICAL ENGINEER DATE

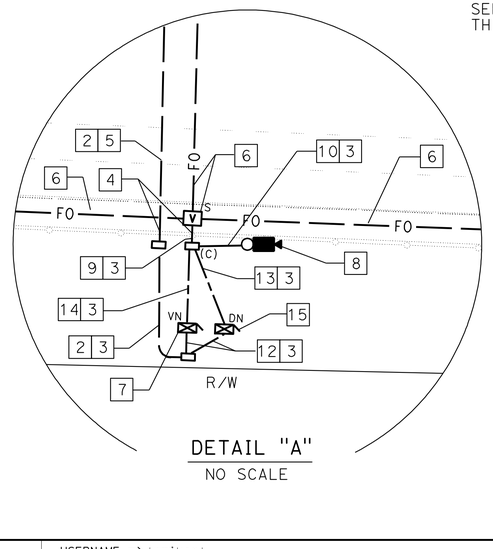
6-27-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
Exp. 06/30/13
ELECTRICAL
STATE OF CALIFORNIA

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

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





DETAIL "A"
NO SCALE

PROJECT NOTES: (THIS SHEET ONLY)

1. ADD 2-30 A, 120 V, 1P CIRCUIT BREAKERS FOR VIDEO NODE AND DATA NODE CONTROLLER CABINETS.
2. 3"C, 4#4 AND 1#8G.
3. TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-80 FOR DETAILS.
4. CORE CONDUIT THROUGH EXISTING SOUNDWALL.
5. JACK CONDUIT UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
6. SHOWN FOR REFERENCE ONLY. SEE COMMUNICATION SYSTEM PLAN SHEET E-59 FOR INSTALLATION DETAILS.
7. INSTALL MODEL 334-TV CONTROLLER CABINET. SEE SHEET E-84 AND E-89 FOR CONTROLLER CABINET FOUNDATION AND VIDEO NODE CABINET WIRING DETAILS.
8. INSTALL CCTV CAMERA POLE TYPE CCTV 45 BEHIND SOUNDWALL. INSTALL CCTV CAMERA ASSEMBLY ON POLE. SEE SHEET E-91 FOR DETAILS.
9. 3"C, 4-48SMFO AND 2-12SMFO.
10. 3"C, COMPOSITE VIDEO CABLE. SEE SHEET E-91 AND E-92 FOR DETAILS.
11. ADD 4#4 AND 1#8G IN EXISTING 1½"C.
12. 3"C, 2#4 AND 1#8G.
13. 3"C, 2-48SMFO, 12SMFO AND 2P22.
14. 3"C, 2-48SMFO, 12SMFO, 2P22 AND COMPOSITE VIDEO CABLE.
15. INSTALL MODEL 334-TV CONTROLLER CABINET. SEE SHEET E-84 AND E-88 FOR CONTROLLER CABINET FOUNDATION AND DATA NODE CABINET WIRING DETAILS.

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

CLOSED CIRCUIT TELEVISION CAMERA, VIDEO NODE AND DATA NODE (LOCATION LB237)

SCALE: 1" = 50'

E-73

REVISED BY | DATE REVISED
CANDACE FUNG | JACQUELINE TAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS

LAST REVISION | DATE PLOTTED => 06-JUL-2011
00-00-00 | TIME PLOTTED => 10:37

BORDER LAST REVISED 7/1/2010 | USERNAME => trmikesl | DGN FILE => 720211ua074.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1133	1507

4/4/11
REGISTERED ELECTRICAL ENGINEER DATE

6-27-11
PLANS APPROVAL DATE

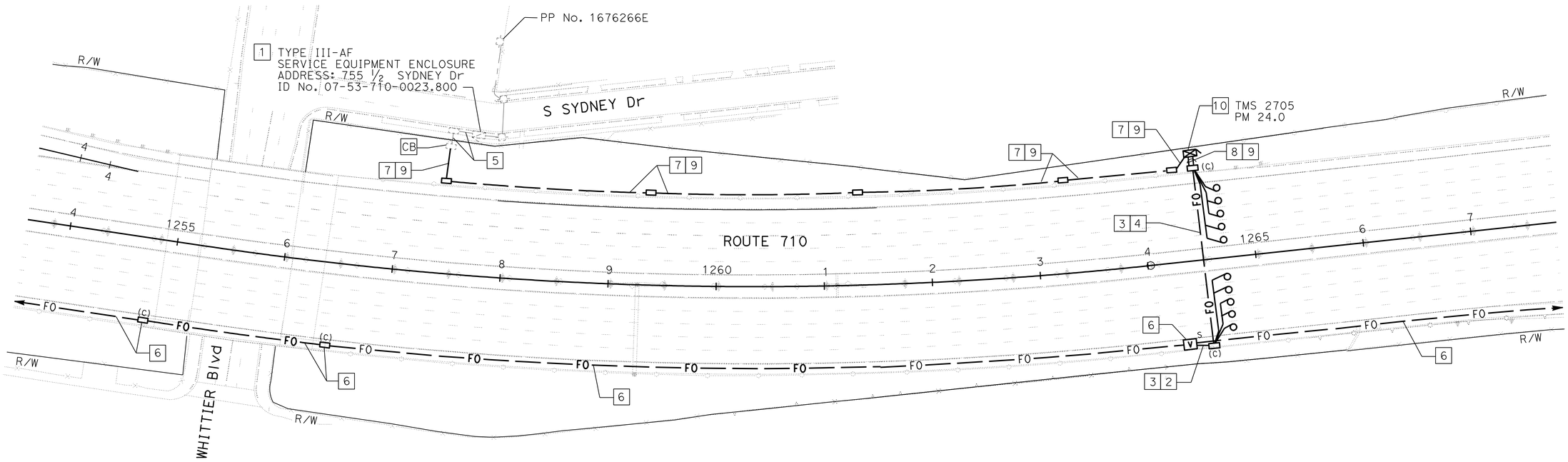
REGISTERED PROFESSIONAL ENGINEER
CANDACE FUNG
No. E16936
Exp. 06/30/13
ELECTRICAL
STATE OF CALIFORNIA

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

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

PROJECT NOTES: (THIS SHEET ONLY)

1. ADD ONE 30 A, 120 V, 1P CIRCUIT BREAKER FOR TMS CONTROLLER CABINET.
2. TRENCH AND INSTALL CONDUIT IN PAVEMENT. SEE SHEET E-80 FOR DETAILS.
3. 3"C, 12SMFO, 5 DLC, 1#8G.
4. JACK CONDUIT UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
5. ADD 2#2, 1#8G IN EXISTING 1½"C.



6. SHOWN FOR REFERENCE ONLY. SEE COMMUNICATION SYSTEM PLAN SHEETS E-59 AND E-60 FOR INSTALLATION DETAILS.
7. 3"C, 2#2, 1#8G.
8. 2-3"C, 12SMFO, 10 DLC, 1#8G.
9. TRENCH AND INSTALL CONDUIT(S) IN SOIL. SEE SHEET E-80 FOR DETAILS.
10. INSTALL STATE-FURNISHED MODEL 170 CONTROLLER ASSEMBLY AND MODEL 400 MODEM. SEE SHEET E-84 AND E-86 FOR CONTROLLER CABINET FOUNDATION AND CABINET WIRING DETAILS.

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

TRAFFIC MONITORING STATION (LOCATION 2705)

SCALE: 1" = 50'

E-74

CANDACE FUNG — CALCULATED-DESIGNED BY
JACQUELINE TAN — CHECKED BY
JACQUELINE TAN — FUNCTIONAL SUPERVISOR
REVISED BY | DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS
Caltrans®

LAST REVISION | DATE PLOTTED => 29-JUN-2011
00-00-00 | TIME PLOTTED => 19:48

BORDER LAST REVISED 7/1/2010 | USERNAME => trphils | DGN FILE => 720211ua075.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1885 | PROJECT NUMBER & PHASE 07000208691

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	17.2/26.4	1134	1507

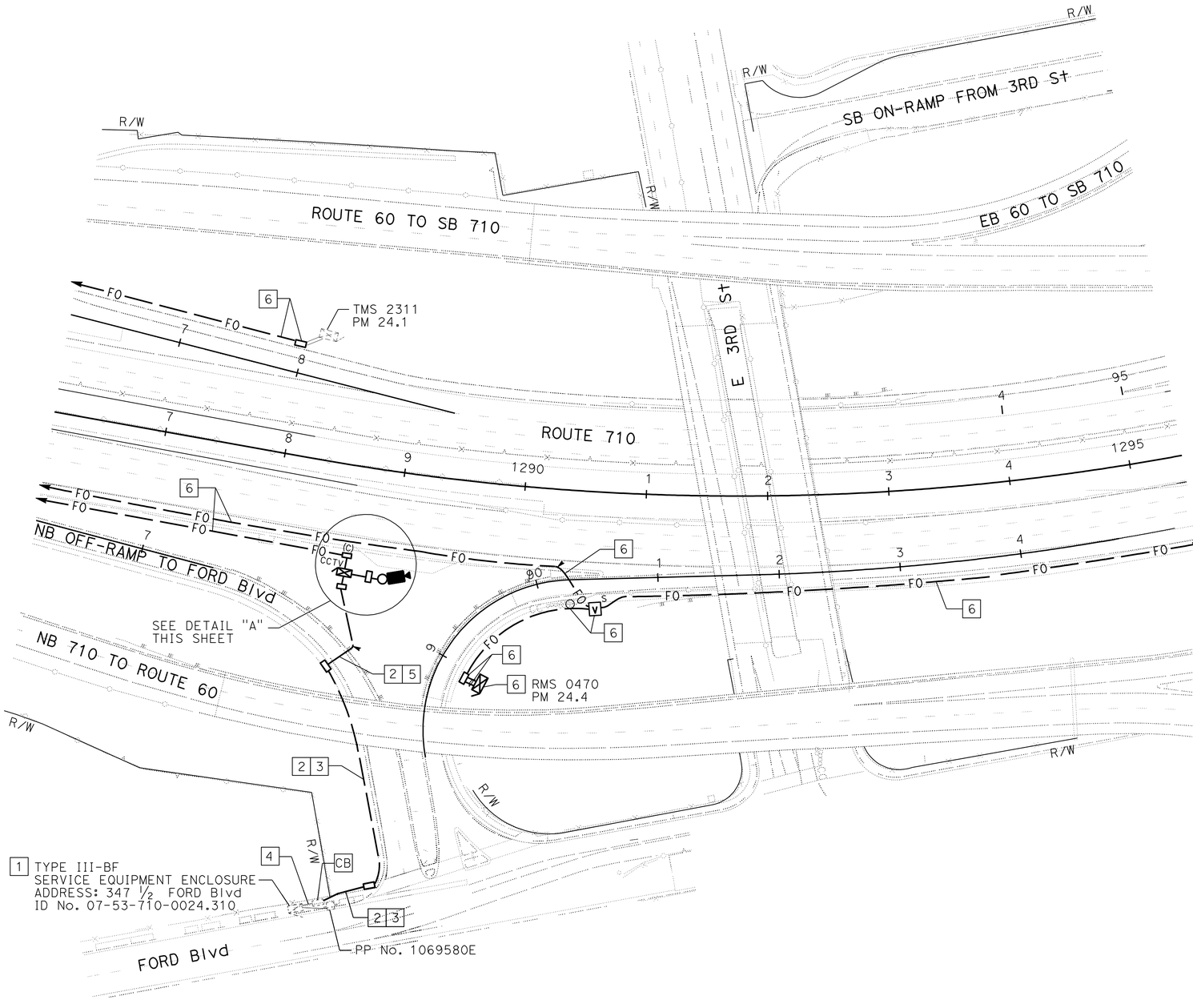
4/4/11
REGISTERED ELECTRICAL ENGINEER DATE

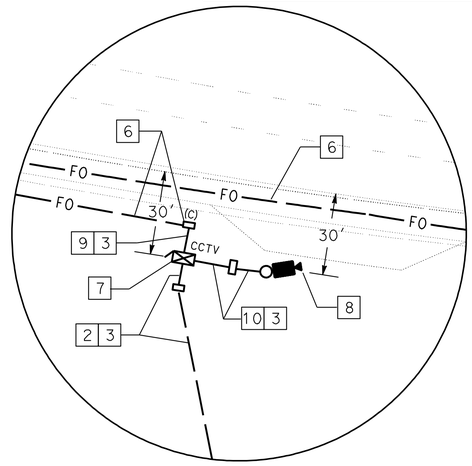
CANDACE FUNG
No. E16936
Exp. 06/30/13
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

6-27-11
PLANS APPROVAL DATE

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

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





DETAIL "A"
NO SCALE

PROJECT NOTES: (THIS SHEET ONLY)

1. ADD ONE 30 A, 120 V, 1P CIRCUIT BREAKER FOR CCTV CAMERA CONTROLLER CABINET.
2. 3"C, 2#8, 1#8G.
3. TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-80 FOR DETAILS.
4. ADD 2#8, 1#8G IN EXISTING 1½"C.
5. JACK CONDUIT UNDER ROADWAY. SEE SHEET E-81 FOR DETAILS.
6. SHOWN FOR REFERENCE ONLY. SEE COMMUNICATION SYSTEM PLAN SHEET E-61 FOR INSTALLATION DETAILS.
7. INSTALL MODEL 334-TV CONTROLLER CABINET. SEE SHEET E-84 AND E-90 FOR CONTROLLER CABINET FOUNDATION AND CABINET WIRING DETAILS.
8. INSTALL CCTV CAMERA POLE TYPE CCTV 45. INSTALL CCTV CAMERA ASSEMBLY ON POLE. SEE SHEET E-91 FOR DETAILS.
9. 3"C, 2-12SMFO.
10. 3"C, COMPOSITE VIDEO CABLE. SEE SHEETS E-91 AND E-92 FOR DETAILS.

CLOSED CIRCUIT TELEVISION CAMERA (LOCATION LB245)

SCALE 1" = 50'

FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEET E-49.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

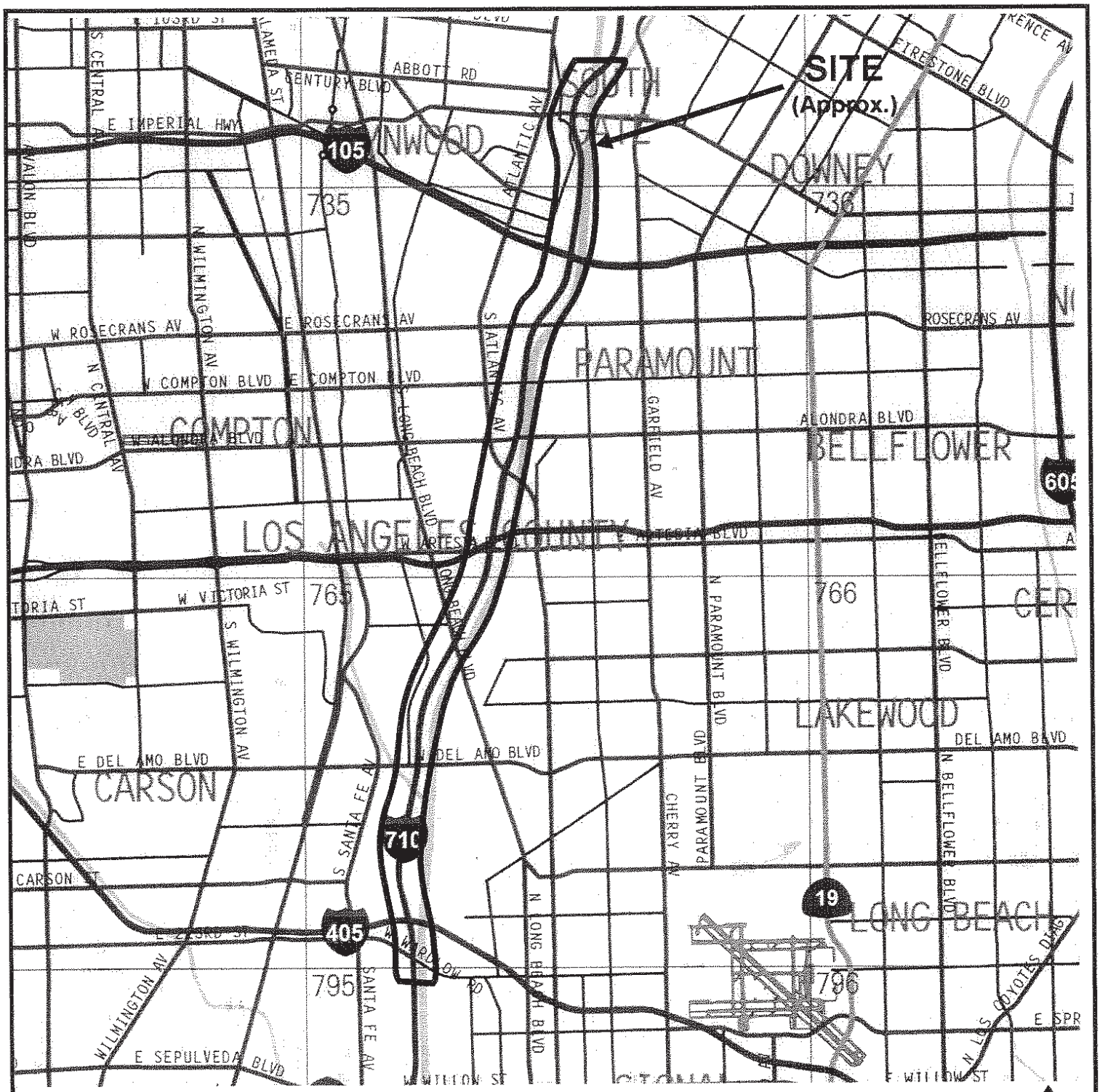
E-75

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF ITS
FUNCTIONAL SUPERVISOR: JACQUELINE TAN
CALCULATED-DESIGNED BY: CANDACE FUNG
CHECKED BY: JACQUELINE TAN
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 06-JUL-2011
00-00-00 TIME PLOTTED => 10:51

BORDER LAST REVISED 7/1/2010
USERNAME => trmikesl
DGN FILE => 720211ua076.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1885
PROJECT NUMBER & PHASE 07000208691

II. ADL Concentration Data and Sample Location Maps



SOURCE: 2002 THOMAS BROTHERS MAP
LOS ANGELES AND VENTURA COUNTIES, CALIFORNIA

No Scale

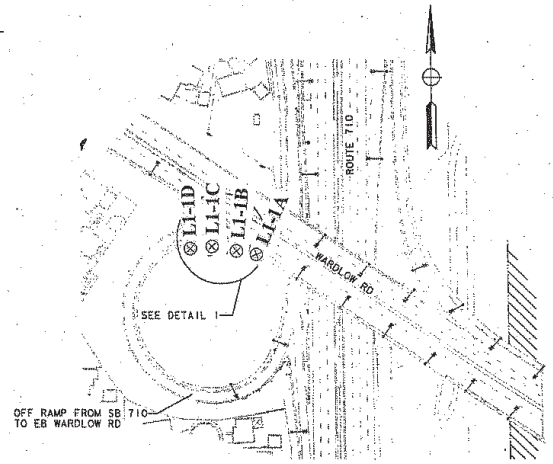
GEOCON
CONSULTANTS, INC
ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 2974
PHONE 858 558-6100 - FAX 858 558-8437

SC	T.O. 07-4N6801-PW

VICINITY MAP

ROUTE 710 FROM THE WARDLOW OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING LOS ANGELES COUNTY, CALIFORNIA

DATE 9-18-2002	PROJECT NO. 09100-06-48	FIG. 1



LOCATION 1

WARDLOW RD

R/W

Sample ID	Depth (Meters)	Total Lead (mg/kg)	Wet Citric (mg/l)	Wet DI (mg/l)	TCLP	pH
L1-1A-S	0.15	150	11	0.83	0.47	---
L1-1A-0.3	0.3	ND	---	---	---	7.82
L1-1B-S	0.15	61	6.4	ND	---	---
L1-1B-0.3	0.3	ND	---	---	---	8.61
L1-1C-S	0.15	110	6.2	0.73	---	---
L1-1C-0.3	0.3	ND	---	---	ND	8.52
L1-1D-S	0.15	13	---	---	---	---
L1-1D-0.3	0.3	11	---	---	---	8.3

BORING LOCATION MAP – AREA A

PROPOSED CURB RAMPS PROJECT AT ROUTE 710 FROM THE WARDLOW ROAD OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING
LOS ANGELES COUNTY, CALIFORNIA

GEOCON
CONSULTANTS, INC.
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 858. 558-6100 - FAX 858. 558-8437

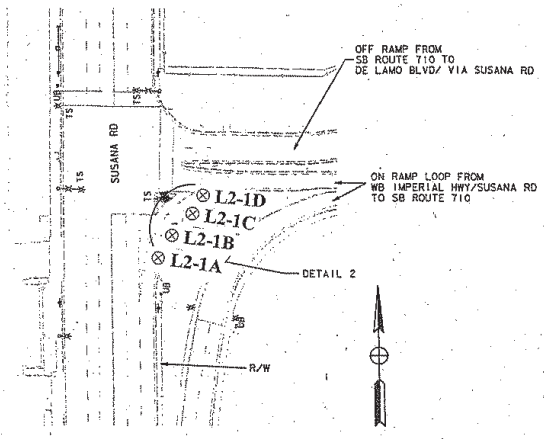
PROJECT NO. 09100-06-48
FIGURE 2, PLATE 1
DATE: 09-18-2002

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PROJECT ENGINEER
CALCULATED/DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => #USER
DGN FILE => #REQUEST
CU 07271
EA 4N6801
LAST REVISION 00-00-00
DATE PLOTTED => #DATE
TIME PLOTTED => #TIME

LOCATION 2

DEL AMO BLVD



Sample ID	Depth (Meters)	Total Lead (mg/kg)	Wet Citric (mg/l)	Wet DI (mg/l)	TCLP	pH
L2-1A-S	0.15	180	10	ND	---	7.6
L2-1A-0.3	0.3	220	17	1.00	---	---
L2-1B-S	0.15	170	13	0.44	---	---
L2-1B-0.3	0.3	180	11	0.25	---	---
L2-1C-S	0.15	210	18	1.10	---	---
L2-1C-0.3	0.3	10	---	---	---	---
L2-1D-S	0.15	110	7.8	ND	---	7.65
L2-1D-0.3	0.3	62	4.6	---	---	---

BORING LOCATION MAP – AREA B

PROPOSED CURB RAMPS PROJECT AT ROUTE 710 FROM THE WARDLOW ROAD OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING
LOS ANGELES COUNTY, CALIFORNIA

GEOCON
CONSULTANTS, INC.
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 858. 558-6100 - FAX 858. 558-8437

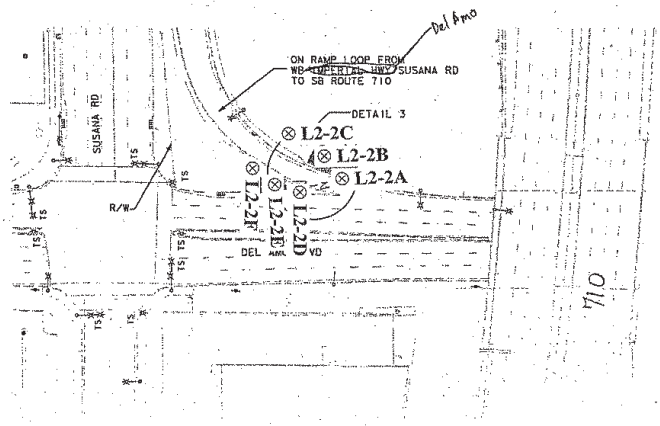
PROJECT NO. 09100-06-48
FIGURE 2, PLATE 2
DATE: 09-18-2002

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

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS
0 20 40 60 80
USERNAME => $USER
DGN FILE => $REQUEST
CU 00000
EA 000000

LOCATION 2

DEL AMO BLVD



Sample ID	Depth (Meters)	Total Lead (mg/kg)	Wet Citric (mg/l)	Wet DI (mg/l)	TCLP	pH
L2-2A-S	0.15	360	14	ND	---	7.13
L2-2A-0.3	0.3	240	8.1	ND	---	---
L2-2B-S	0.15	760	45	0.48	1.4	---
L2-2B-0.3	0.3	480	35	3.00	---	---
L2-2C-S	0.15	650	37	1.10	0.45	---
L2-2C-0.3	0.3	520	19	0.42	0.56	---
L2-2D-S	0.15	330	12	1.40	---	7.99
L2-2D-0.3	0.3	150	8	0.80	---	---
L2-2E-S	0.15	420	22	0.65	---	---
L2-2E-0.3	0.3	210	12	0.61	---	---
L2-2F-S	0.15	480	18	1.60	---	---
L2-2F-0.3	0.3	24	---	---	---	---

BORING LOCATION MAP - AREA B

PROPOSED CURB RAMPS PROJECT AT ROUTE 710 FROM THE WARDLOW ROAD OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING

LOS ANGELES COUNTY, CALIFORNIA

GEOCON

CONSULTANTS, INC.
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 858. 558-6100 - FAX 858. 558-8437

PROJECT NO. 09100-06-48
FIGURE 2, PLATE 3
DATE: 09-18-2002

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

PROJECT ENGINEER

CALCULATED/DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

DATE

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

0 20 40 60 80

USERNAME => $USER
DGN FILE => $REQUEST

CU 00000

EA 000000

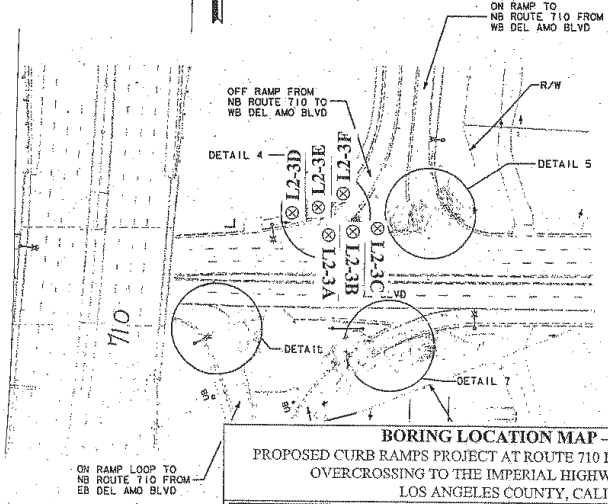
LAST REVISION 00-00-00

DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

LOCATION 2

DEL AMO BLVD

Sample ID	Depth (Meters)	Total Lead (mg/kg)	Wet Citric (mg/l)	Wet DI (mg/l)	TCLP	pH
L2-3A-S	0.15	350	42	0.69	3.9	---
L2-3A-0.3	0.3	70	5.4	ND	0.41	---
L2-3B-S	0.15	200	17	ND	0.85	---
L2-3B-0.3	0.3	59	2.3	---	---	8.59
L2-3C-S	0.15	540	64	0.37	4	---
L2-3C-0.3	0.3	130	9.8	1.10	0.62	---
L2-3D-S	0.15	28	---	---	---	---
L2-3D-0.3	0.3	14	---	---	---	---
L2-3E-S	0.15	18	---	---	---	---
L2-3E-0.3	0.3	16	---	---	---	---
L2-3F-S	0.15	18	---	---	---	---
L2-3F-0.3	0.3	11	---	---	---	---



BORING LOCATION MAP – AREA C

PROPOSED CURB RAMPS PROJECT AT ROUTE 710 FROM THE WARDLOW ROAD OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING
LOS ANGELES COUNTY, CALIFORNIA

GEOCON CONSULTANTS, INC.
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 858. 558-6100 - FAX 858. 558-8437

PROJECT NO. 09100-06-48
FIGURE 2, PLATE 4
DATE: 09-18-2002

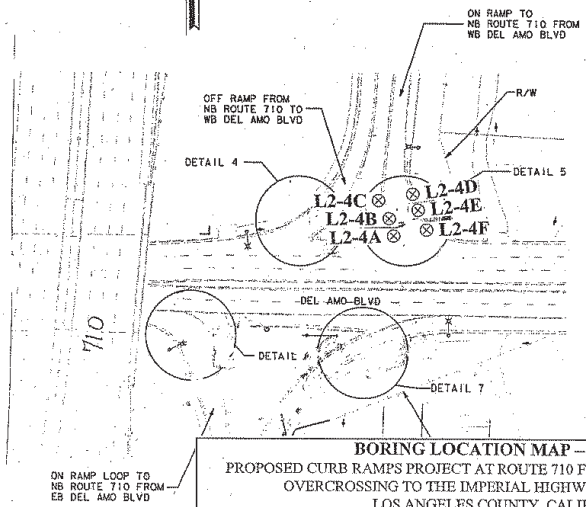
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PROJECT ENGINEER
CALCULATED/DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS
0 20 40 60 80
USERNAME => $USER
DGN FILE => $REQUEST
DU 00000
EA 000000
LAST REVISED DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

LOCATION 2

DEL AMO BLVD

Sample ID	Depth (Meters)	Total Lead (mg/kg)	Wet Citric (mg/l)	Wet DI (mg/l)	TCLP	pH
L2-4A-S	0.15	59	6.7	ND	---	---
L2-4A-0.3	0.3	50	3.2	---	---	---
L2-4B-S	0.15	74	4.2	---	0.63	---
L2-4B-0.3	0.3	57	2.9	---	---	---
L2-4C-S	0.15	65	3.5	---	---	8.01
L2-4C-0.3	0.3	67	3.2	---	---	---
L2-4D-S	0.15	31	---	---	---	---
L2-4D-0.3	0.3	37	---	---	---	---
L2-4E-S	0.15	44	---	---	---	---
L2-4E-0.3	0.3	38	---	---	---	---
L2-4F-S	0.15	120	7.8	ND	0.42	---
L2-4F-0.3	0.3	24	---	---	---	---



BORING LOCATION MAP – AREA C

PROPOSED CURB RAMPS PROJECT AT ROUTE 710 FROM THE WARDLOW ROAD OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING

LOS ANGELES COUNTY, CALIFORNIA

GEOCON CONSULTANTS, INC.

6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974

PHONE 858. 558-6100 - FAX 858. 558-8437

PROJECT NO. 09100-06-48

FIGURE 2, PLATE 5

DATE: 09-18-2002

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER

CALCULATED/DESIGNED BY

CHECKED BY

DATE REVISED BY

DATE REVISED

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

USERNAME => #USER
DGN FILE => #REQUEST

CU 00000

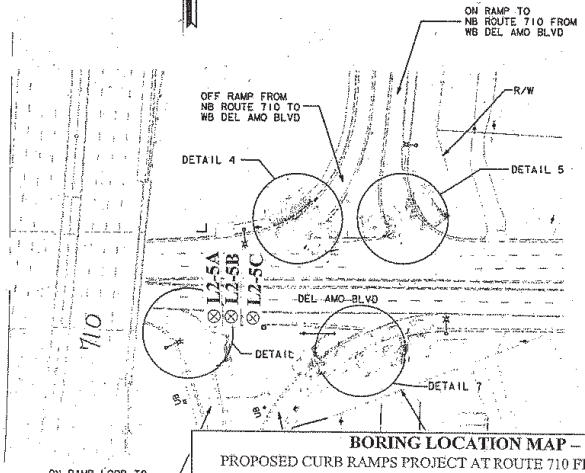
EA 000000

LAST PLOTTED => #DATE
TIME PLOTTED => #TIME

LOCATION 2

DEL AMO BLVD

Sample ID	Depth (Meters)	Total Lead (mg/kg)	Wet Citric (mg/l)	Wet DI (mg/l)	TCLP	pH
L2-5A-S	0.15	51	3.4	---	---	---
L2-5A-0.3	0.3	13	---	---	---	---
L2-5B-S	0.15	110	4.7	---	0.49	---
L2-5B-0.3	0.3	39	---	---	---	---
L2-5C-S	0.15	38	---	---	---	---
L2-5C-0.3	0.3	170	6.7	0.22	0.69	---



BORING LOCATION MAP – AREA C

PROPOSED CURB RAMPS PROJECT AT ROUTE 710 FROM THE WARDLOW ROAD OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING

LOS ANGELES COUNTY, CALIFORNIA

GEOCON

CONSULTANTS, INC.

6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974

PHONE 858 558-6100 - FAX 858 558-8437

PROJECT NO. 09100-06-48

FIGURE 2, PLATE 6

DATE: 09-18-2002

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER

CALCULATED/DESIGNED BY

CHECKED BY

DATE REVISED BY

DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 00/00/00 TIME PLOTTED => 0:00

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

USERNAME => %USER DGN FILE => %REQUEST

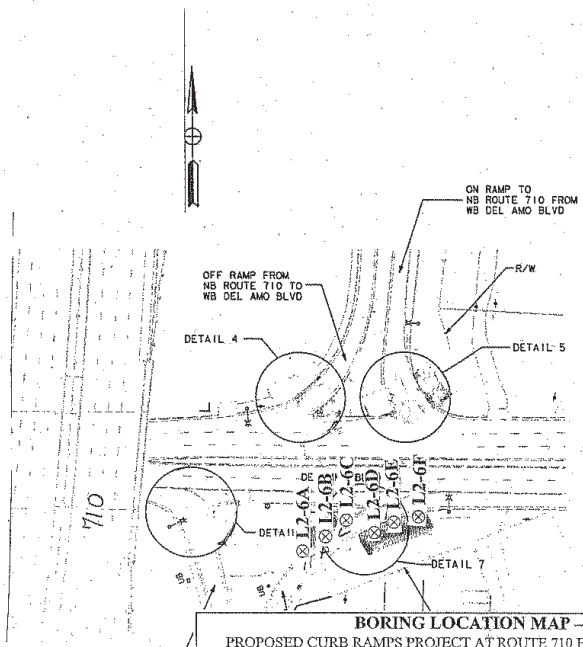
CU 00000

EA 000000

LOCATION 2

DEL AMO BLVD

Sample ID	Depth (Meters)	Total Lead (mg/kg)	Wet Citric (mg/l)	Wet DI (mg/l)	TCLP	pH
L2-6A-S	0.15	30	---	---	---	8.4
L2-6A-0.3	0.3	16	---	---	---	---
L2-6B-S	0.15	19	---	---	---	---
L2-6B-0.3	0.3	30	---	---	---	---
L2-6C-S	0.15	73	3.4	---	0.43	---
L2-6C-0.3	0.3	97	8.5	0.87	0.35	---
L2-6D-S	0.15	35	---	---	---	---
L2-6D-0.3	0.3	11	---	---	---	---
L2-6E-S	0.15	23	---	---	---	---
L2-6E-0.3	0.3	13	---	---	---	---
L2-6F-S	0.15	26	---	---	---	---
L2-6F-0.3	0.3	13	---	---	---	8.76



BORING LOCATION MAP – AREA C

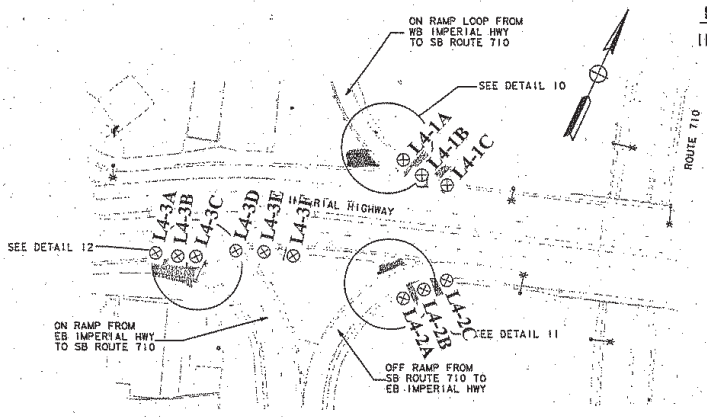
PROPOSED CURB RAMPS PROJECT AT ROUTE 710 FROM THE WARDLOW ROAD OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING
LOS ANGELES COUNTY, CALIFORNIA

GEOCON
CONSULTANTS, INC.
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 858. 558-6100 - FAX 858. 558-8437

PROJECT NO. 09100-06-48
FIGURE 2, PLATE 7
DATE: 09-18-2002

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PROJECT ENGINEER
CALCULATED/DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => MUSER
DGN FILE => MREQUEST
CU 00000
EA 000000
DATE PLOTTED => DATE
TIME PLOTTED => TIME



Sample ID	Depth (Meters)	Total Lead (mg/kg)	Wet Citric (mg/l)	Wet DI (mg/l)	TCLP	pH
L4-1A-S	0.15	410	35	1.80	1.4	---
L4-1A-0.3	0.3	12	---	---	---	---
L4-1B-S	0.15	110	7.6	0.63	---	7.69
L4-1B-0.3	0.3	8.6	---	---	---	---
L4-1C-S	0.15	120	7.1	0.30	---	---
L4-1C-0.3	0.3	ND	---	---	---	---
L4-2A-S	0.15	13	---	---	---	---
L4-2A-0.3	0.3	ND	---	---	---	---
L4-2B-S	0.15	180	12	2.20	---	---
L4-2B-0.3	0.3	7.7	---	---	---	---
L4-2C-S	0.15	120	15	1.70	---	7.49
L4-2C-0.3	0.3	430	19	1.00	1.3	---
L4-3A-S	0.15	910	68	3.00	4	---
L4-3A-0.3	0.3	26	---	---	---	---
L4-3B-S	0.15	82	5.9	1.10	---	---
L4-3B-0.3	0.3	170	12	1.30	---	---
L4-3C-S	0.15	72	5.4	0.63	---	7.15
L4-3C-0.3	0.3	11	---	---	---	---
L4-3D-S	0.15	340	26	2.50	1.1	---
L4-3D-0.3	0.3	ND	---	---	---	---
L4-3E-S	0.15	710	59	1.30	4.3	---
L4-3E-0.3	0.3	7.4	---	---	---	---
L4-3F-S	0.15	280	22	1.40	1.2	7.68
L4-3F-0.3	0.3	ND	---	---	---	---

BORING LOCATION MAP – AREA D

PROPOSED CURB RAMPS PROJECT AT ROUTE 710 FROM THE WARDLOW ROAD OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING
LOS ANGELES COUNTY, CALIFORNIA

GEOCON
CONSULTANTS, INC.
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 858. 558-6160 - FAX 858. 558-8437

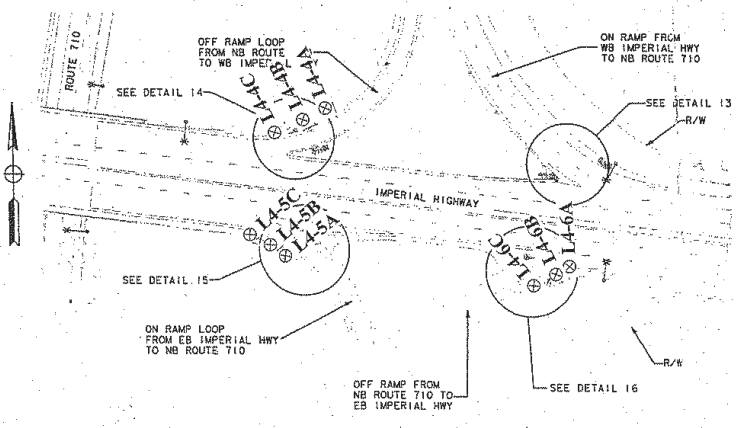
PROJECT NO. 09100-06-48
FIGURE 2, PLATE 8
DATE: 09-18-2002

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PROJECT ENGINEER
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => %USER
DATE PLOTTED => %DATE
TIME PLOTTED => %TIME

LOCATION 4

IMPERIAL HWY



Sample ID	Depth (Meters)	Total Lead (mg/kg)	Wet Citric (mg/l)	Wet DI (mg/l)	TCLP	pH
L4-6A-S	0.15	84	6	1.10	ND	---
L4-6A-0.3	0.3	ND	---	---	0.21	8.9
L4-6B-S	0.15	9.5	---	---	---	---
L4-6B-0.3	0.3	90	6.6	0.98	---	---
L4-6C-S	0.15	ND	---	---	---	---
L4-6C-0.3	0.3	ND	---	---	---	9.15
L4-5A-S	0.15	250	17	0.35	0.89	---
L4-5A-0.3	0.3	6.1	---	---	---	---
L4-5B-S	0.15	70	4.5	---	---	---
L4-5B-0.3	0.3	460	40	0.83	2.8	---
L4-5C-S	0.15	15	---	---	---	---
L4-5C-0.3	0.3	ND	---	---	---	---
L4-4A-S	0.15	21	---	---	---	---
L4-4A-0.3	0.3	8	---	---	---	8.82
L4-4B-S	0.15	81	5.4	ND	---	---
L4-4B-0.3	0.3	9.5	---	---	---	---
L4-4C-S	0.15	86	4.7	---	ND	7.51
L4-4C-0.3	0.3	9	---	---	---	---

BORING LOCATION MAP – AREA E

PROPOSED CURB RAMPS PROJECT AT ROUTE 710 FROM THE WARDLOW ROAD OVERCROSSING TO THE IMPERIAL HIGHWAY OVERCROSSING
LOS ANGELES COUNTY, CALIFORNIA

GEOCON
CONSULTANTS, INC.
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 858. 558-6100 - FAX 858. 558-8437

PROJECT NO. 09100-06-48
FIGURE 2, PLATE 9
DATE: 09-18-2002

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PROJECT ENGINEER
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 1
USERNAME => #USER
DATE PLOTTED => #DATE
TIME PLOTTED => #TIME

TABLE I
SUMMARY OF ANALYTICAL LABORATORY RESULTS

Sample ID	Depth (Meters)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead – WET Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET-DI Water EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Test Method 7420 (mg/l)	Soil pH EPA Test Method 9045
Area A						
L1-1A-S	0.15	150	11	0.83/0.28	0.47	---
L1-1A-0.3	0.3	ND	---	---	---	7.82
L1-1B-S	0.15	61	....6.4	ND	---	---
L1-1B-0.3	0.3	ND	---	---	---	8.61
L1-1C-S	0.15	110	6.2	0.73/0.32	---	---
L1-1C-0.3	0.3	ND	---	---	ND	8.52
L1-1D-S	0.15	13	---	---	---	---
L1-1D-0.3	0.3	11	---	---	---	8.3
Area B						
L2-2A-S	0.15	360	14	ND	---	7.13
L2-2A-0.3	0.3	240	8.1	ND	---	---
L2-2B-S	0.15	760	45	0.48	1.4	---
L2-2B-0.3	0.3	480	35	3/0.40	---	---
L2-2C-S	0.15	650	37	1.10	0.45	---
L2-2C-0.3	0.3	520	19	0.42	0.56	---
L2-2D-S	0.15	330	12	1.40	---	7.99
L2-2D-0.3	0.3	150	8	0.80	---	---
L2-2E-S	0.15	420	22	0.65	---	---
L2-2E-0.3	0.3	210	12	0.61	---	---
L2-2F-S	0.15	480	18	1.6/ND	---	---
L2-2F-0.3	0.3	24	---	---	---	---
L2-1A-S	0.15	180	10	ND	---	7.6
L2-1A-0.3	0.3	220	17	1.00	---	---
L2-1B-S	0.15	170	13	0.44	---	---
L2-1B-0.3	0.3	180	11	0.25	---	---
L2-1C-S	0.15	210	18	1.10	---	---

Sample ID	Depth (Meters)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead – WET Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET-DI Water EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Test Method 7420 (mg/l)	Soil pH EPA Test Method 9045
L2-1C-0.3	0.3	10	---	---	---	---
L2-1D-S	0.15	110	7.8	ND	---	7.65
L2-1D-0.3	0.3	62	4.6	---	---	---
Area C						
L2-6A-S	0.15	30	---	---	---	8.4
L2-6A-0.3	0.3	16	---	---	---	---
L2-6B-S	0.15	19	---	---	---	---
L2-6B-0.3	0.3	30	---	---	---	---
L2-6C-S	0.15	73	3.4	---	0.43	---
L2-6C-0.3	0.3	97	8.5	0.87	0.35	---
L2-6D-S	0.15	35	---	---	---	---
L2-6D-0.3	0.3	11	---	---	---	---
L2-6E-S	0.15	23	---	---	---	---
L2-6E-0.3	0.3	13	---	---	---	---
L2-6F-S	0.15	26	---	---	---	---
L2-6F-0.3	0.3	13	---	---	---	8.76
L2-5A-S	0.15	51	3.4	---	---	---
L2-5A-0.3	0.3	13	---	---	---	---
L2-5B-S	0.15	110	4.7	---	0.49	---
L2-5B-0.3	0.3	39	---	---	---	---
L2-5C-S	0.15	38	---	---	---	---
L2-5C-0.3	0.3	170	6.7	0.22	0.69	---
L2-4A-S	0.15	59	6.7	ND	---	---
L2-4A-0.3	0.3	50	3.2	---	---	---
L2-4B-S	0.15	74	4.2	---	0.63	---
L2-4B-0.3	0.3	57	2.9	---	---	---
L2-4C-S	0.15	65	3.5	---	---	8.01
L2-4C-0.3	0.3	67	3.2	---	---	---
L2-4D-S	0.15	31	---	---	---	---
L2-4D-0.3	0.3	37	---	---	---	---

Sample ID	Depth (Meters)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead – WET Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET-DI Water EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Test Method 7420 (mg/l)	Soil pH EPA Test Method 9045
L2-4E-S	0.15	44	---	---	---	---
L2-4E-0.3	0.3	38	---	---	---	---
L2-4F-S	0.15	120	7.8	ND	0.42	---
L2-4F-0.3	0.3	24	---	---	---	---
L2-3A-S	0.15	350	42	0.69	3.9	---
L2-3A-0.3	0.3	70	5.4	ND	0.41	---
L2-3B-S	0.15	200	17	ND	0.85	---
L2-3B-0.3	0.3	59	2.3	---	---	8.59
L2-3C-S	0.15	540	64	0.37	4	---
L2-3C-0.3	0.3	130	9.8	1.10	0.62	---
L2-3D-S	0.15	28	---	---	---	---
L2-3D-0.3	0.3	14	---	---	---	---
L2-3E-S	0.15	18	---	---	---	---
L2-3E-0.3	0.3	16	---	---	---	---
L2-3F-S	0.15	18	---	---	---	---
L2-3F-0.3	0.3	11	---	---	---	---
Area D						
L4-1A-S	0.15	410	35	1.80	1.4	---
L4-1A-0.3	0.3	12	---	---	---	---
L4-1B-S	0.15	110	7.6	0.63	---	7.69
L4-1B-0.3	0.3	8.8	---	---	---	---
L4-1C-S	0.15	120	7.1	0.30	---	---
L4-1C-0.3	0.3	ND	---	---	---	---
L4-3A-S	0.15	910	68	3/7.9	4	---
L4-3A-0.3	0.3	26	---	---	---	---
L4-3B-S	0.15	82	5.9	1.10	---	---
L4-3B-0.3	0.3	170	12	1.30	---	---
L4-3C-S	0.15	72	5.4	0.63	---	7.15
L4-3C-0.3	0.3	11	---	---	---	---
L4-3D-S	0.15	340	26	2.5/2.3	1.1	---

Sample ID	Depth (Meters)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead – WET Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET-DI Water EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Test Method 7420 (mg/l)	Soil pH EPA Test Method 9045
L4-3D-0.3	0.3	ND	---	---	---	---
L4-3E-S	0.15	710	59	1.30	4.3	---
L4-3E-0.3	0.3	7.4	---	---	---	---
L4-3F-S	0.15	280	22	1.40	1.2	7.68
L4-3F-0.3	0.3	ND	---	---	---	---
L4-2A-S	0.15	13	---	---	---	---
L4-2A-0.3	0.3	ND	---	---	---	---
L4-2B-S	0.15	180	12	2.2/1.8	---	---
L4-2B-0.3	0.3	7.7	---	---	---	---
L4-2C-S	0.15	120	15	1.70	---	7.49
L4-2C-0.3	0.3	430	19	1.00	1.3	---
Area E						
L4-6A-S	0.15	84	6	1.1/0.38	ND	---
L4-6A-0.3	0.3	ND	---	---	0.21	8.9
L4-6B-S	0.15	9.5	---	---	---	---
L4-6B-0.3	0.3	90	6.6	0.98/0.23	---	---
L4-6C-S	0.15	ND	---	---	---	---
L4-6C-0.3	0.3	ND	---	---	---	9.15
L4-5A-S	0.15	250	17	0.35	0.89	---
L4-5A-0.3	0.3	6.1	---	---	---	---
L4-5B-S	0.15	70	4.5	---	---	---
L4-5B-0.3	0.3	460	40	0.83	2.8	---
L4-5C-S	0.15	15	---	---	---	---
L4-5C-0.3	0.3	ND	---	---	---	---
L4-4A-S	0.15	21	---	---	---	---
L4-4A-0.3	0.3	8	---	---	---	8.82
L4-4B-S	0.15	81	5.4	ND	---	---
L4-4B-0.3	0.3	9.5	---	---	---	---
L4-4C-S	0.15	86	4.7	---	ND	7.51
L4-4C-0.3	0.3	9	---	---	---	---

Notes:

mg/kg = milligrams per kilogram
mg/l = milligrams per liter
--- = analysis not performed
EPA = United States Environmental Protection Agency

TABLE II
SUMMARY OF CCR TITLE 22 METALS RESULTS

	Area A		Area B		Area C		Area D		Area E					
Element	L1-1A-S	L1-1C-0.3	L2-2B-S	L2-2C-S	L2-3A-S	L2-3C-S	L4-3A-S	L4-3E-S	L4-5A-S	L4-5B-.3	Max Value	STLC	TTLC	10X STLC
Antimony	0.50	0.50	0.50	1.00	0.50	0.50	0.50	0.50	0.50	0.50	1.00	15	500	150
Arsenic	9.00	3.00	8.50	7.50	12.00	12.00	8.00	6.50	7.50	9.00	12.00	5	500	50
Barium	84.00	26.00	120.00	120.00	16.00	150.00	58.00	78.00	84.00	92.00	150.00	100	10,000	1000
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.75	75	7.5
Cadmium	ND	ND	ND	0.50	ND	ND	0.18	ND	ND	ND	0.50	1	100	10
Chromium	16.00	8.50	16.00	23.00	24.00	38.00	15.00	20.00	17.00	17.00	38.00	5	2,500	50
Cobalt	6.50	3.50	6.00	6.00	8.50	8.50	6.00	5.50	7.00	8.00	8.50	80	8,000	800
Copper	27.00	4.00	35.00	46.00	72.00	110.00	38.00	45.00	44.00	34.00	110.00	25	2,500	250
Lead	190.00	1.50	810.00	780.00	730.00	870.00	510.00	970.00	310.00	560.00	970.00	5	1,000	50
Mercury	ND	0.12	ND	0.14	0.11	ND	ND	ND	ND	ND	0.14	0.2	20	2
Molybdenum	1.00	0.37	1.50	2.00	3.00	2.50	1.00	2.00	1.00	1.00	3.00	350	3,500	3500
Nickel	13.00	4.50	16.00	18.00	20.00	24.00	14.00	16.00	18.00	14.00	24.00	20	2,000	200
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	100	10
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500	50
Thallium	ND	ND	ND	ND	ND	0.42	ND	ND	ND	ND	0.42	7	700	70
Vanadium	26.00	16.00	26.00	24.00	34.00	36.00	22.00	20.00	24.00	29.00	36.00	24	2,400	240
Zinc	210.00	18.00	270.00	390.00	280.00	360.00	230.00	220.00	240.00	220.00	390.00	250	5000	2500

Notes:
All results reported in milligrams per kilogram except STLC limits which are in mg/l
Samples analyzed using EPA Test Method 6010B and 7471
TTLC = Total threshold limit concentration
STLC = Soluble threshold limit concentration
ND = Not detected at or above laboratory detection limits