

# **INFORMATION HANDOUT**

**For Contract No. 07-296704**

**At 07-Ven-118-T18.7/R32.6**

**Identified by**

**Project ID 0713000086**

## **MATERIALS INFORMATION**

**FIBER OPTIC SYSTEM AS BUILT DRAWINGS**

**BRIDGE APPROACH SLAB TYPE I MODIFICATION AS BUILT DRAWING**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**ITS DEVELOPMENT**  
**Caltrans**  
 PROJECT ENGINEER  
 SUNG LEE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE REVISIONS  
 DATE REVISIONS  
 DATE REVISIONS

**GENERAL NOTES**

1. THE LOCATION OF EXISTING CONTROLLER CABINETS, EXISTING SERVICE ENCLOSURES, AND POWER POLES ARE APPROXIMATE. THE LOCATION OF PROPOSED PULL BOXES AND SPLICE VAULTS ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
2. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL PROVIDE 72 HOUR ADVANCE WRITTEN NOTICE TO ALL AGENCIES CONCERNED.
3. UNLESS OTHERWISE NOTED, ALL COMMUNICATION CONDUIT BENDS SHALL BE 1.3 m RADIUS FACTORY BENDS.
4. TRENCHING IN PAVEMENT ALLOWED ONLY WHERE SHOWN ON PLANS.
5. ALL PULL BOXES AND SPLICE VAULTS SHALL BE INSTALLED IN UNPAVED AREA UNLESS NOTED OTHERWISE.
6. INSTALL PULL ROPE AND PLUG ENDS EACH UNUSED INNERDUCTS AND CONDUITS.

**ABBREVIATIONS**

1C	INTERCONNECT
1P	1-POLE
48SMFO	FIBER OPTIC CABLE, 48 SINGLE-MODE FIBERS
36SMFO	FIBER OPTIC CABLE, 36 SINGLE-MODE FIBERS
12SMFO	FIBER OPTIC CABLE, 12 SINGLE-MODE FIBERS
B/O	BREAKOUT
CCR	CAMERA CONTROL RECEIVER
F/O	FIBER OPTIC
GRS	GALVANIZED RIGID STEEL
OHS	OVERHEAD SIGN
SCE	SOUTHERN CALIFORNIA EDISON
RMS	RAMP METERING SYSTEM
FDU	FIBER DISTRIBUTION UNIT
SH	SHORT HAUL
UPRR	UNION PACIFIC RAIL ROAD
CS	COUNT STATION
FOCM	FIBER OPTIC CONTROL MODEM
FOTM	FIBER OPTIC TRAFFIC MODEM
CCM	CAMERA CONTROL MODEM

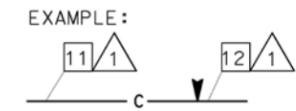


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var	374	667

Registered Professional Engineer  
 Leesunghwan 08-30-06  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>

**LEGEND**

- PROPOSED CCTV CAMERA AND POLE
- TYPE 334-TV CABINET FOR CCTV CAMERA, DATA NODE, CABLE NODE, VIDEO NODE, TMS AND CMS CONTROLLER
- SPLICE VAULT
- COMMUNICATION PULL BOX, SEE SHEET E-52
- EXISTING COMMUNICATION PULL BOX
- COMMUNICATION CONDUIT
- EXISTING TYPE 334 CABINET
- EXISTING SPLICE VAULT
- DELIMITER FOR PROJECT NOTES
- TYPE E INDUCTIVE LOOP DETECTOR
- EXISTING TYPE E INDUCTIVE LOOP DETECTOR
- SERVICE CONDUIT
- EXISTING SERVICE CONDUIT
- CONDUIT FOR LOOP DETECTOR AND SIGNAL CONDUCTORS



CONDUCTOR TYPE	FUNCTION	QUANTITY
RG-6A/U COAX CABLE	CAMERA VIDEO INTERFACE CABLE	1
RS232 (5#22) CABLE	CAMERA CONTROL CABLE	1
3#18	POWER CABLE	1

**AS-BUILT**

Contract No. 07- **116794**

Resident Engineer: **M. TOUTOUNCHIAN**

Completion Date: **01/ 14/ 2010**

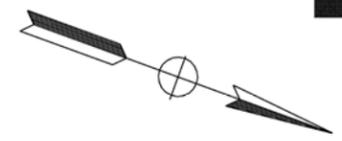
**COMMUNICATION SYSTEM ROUTING**  
**(LEGEND AND NOTES)**  
**(SHEETS E-2 TO E-45)**  
**E-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE  
 DATE REVISION: [ ] REVISOR: [ ] DATE REVISOR: [ ]  
 CALCULATED/DESIGNED BY: [ ] CHECKED BY: [ ]

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 25 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO LOCATION PLAN.

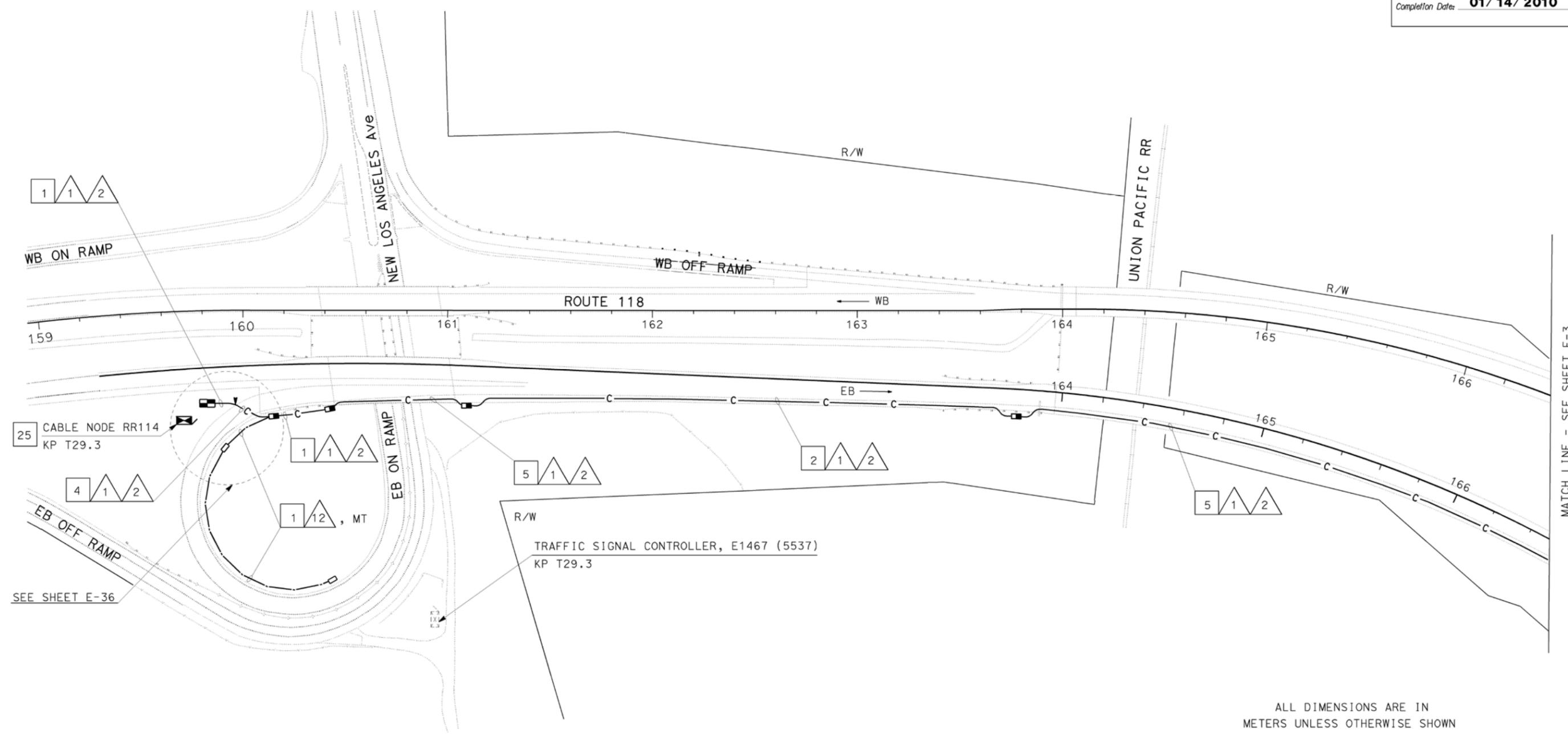
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN		
CONDUIT AND CONDUCTOR TYPE	FUNCTION	1	2	3
48SMFO CABLE	DATA/VOICE	1		
36SMFO CABLE	VIDEO/VOICE		1	
48SMFO CABLE	VIDEO/DATA			1
INNERDUCT (SIZE 25)		1	1	1
CONDUIT SIZE		103	103	53



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var	375	667

REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA  
 ELECTRICIAN  
 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- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



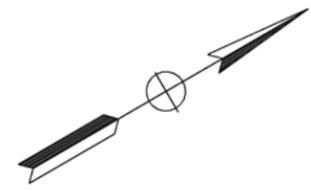
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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	Ven,LA	23,118	Var	376	667

08-30-06  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 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>



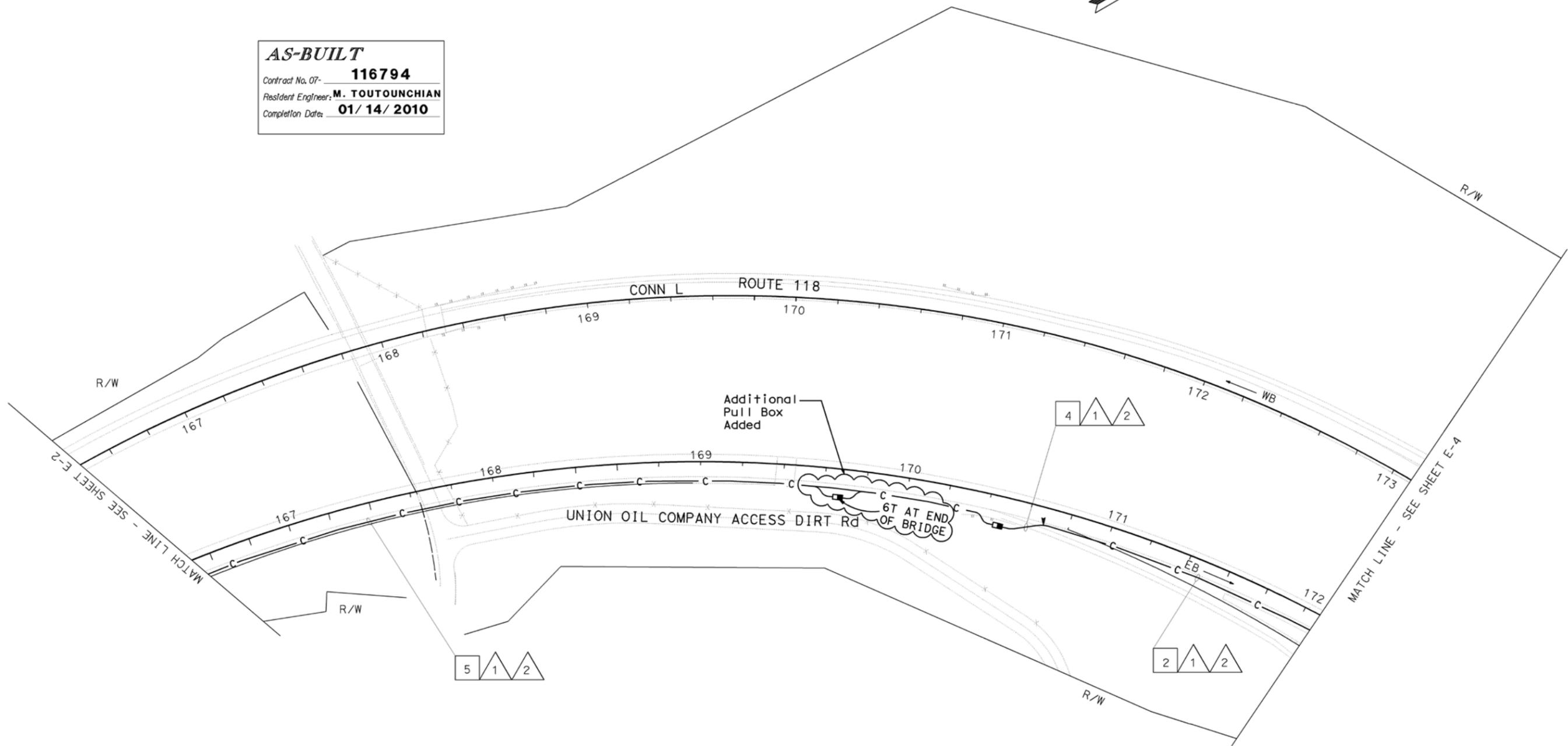
**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN			
CONDUIT AND CONDUCTOR TYPE	FUNCTION	1		2	
		48SMFO CABLE	DATA/VOICE	1	
36SMFO CABLE	VIDEO/VOICE		1		
48SMFO CABLE	VIDEO/DATA			1	
INNERDUCT (SIZE 25)		1	1	1	4
CONDUIT SIZE		103		103	

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**ITS DEVELOPMENT**  
 PROJECT ENGINEER: SUNG LEE  
 REVISIONS: (Grid of X's)  
 DATE: (Grid of X's)  
 REVISOR: (Grid of X's)  
 DATE: (Grid of X's)  
 CHECKED BY: (Grid of X's)  
 DESIGNED BY: (Grid of X's)



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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



USERNAME => s110796  
 DGN FILE => 711679ua003.dgn

CU 07388

EA 116791

LAST REVISION: 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:44



**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

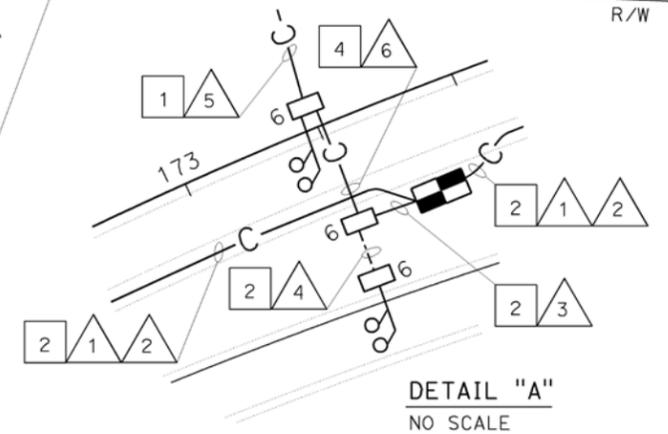
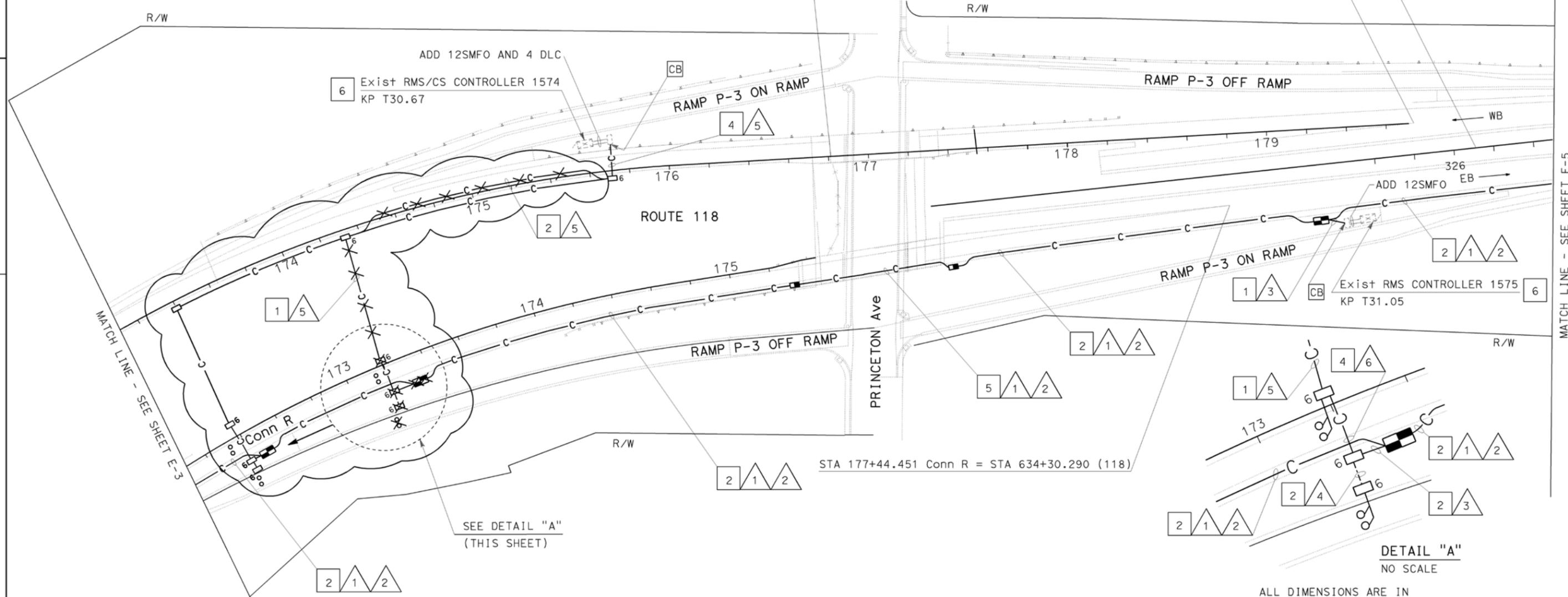
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN					
CONDUIT AND CONDUCTOR TYPE	FUNCTION	1	2	3	4	5	6
		48SMFO CABLE	DATA/VOICE	1			
36SMFO CABLE	VIDEO/VOICE		1				
48SMFO CABLE	VIDEO/DATA			1			
12SMFO CABLE	DATA/VOICE				1	1	1
DLC	RAMP/COUNT				2	4	2
INNERDUCT (SIZE 25)		1	1	1	1	4	1
CONDUIT SIZE		103		103	53	78	78

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**

179+72.899 "Conn L" BK = 635+26.58 AHD  
 177+44.451 "Conn R" BK = 634+30.290 AHD  
 635+56.896 BK = 326+12.195 AHD

STA 323+08.866 = STA 632+53.567 POT (118)

STA 179+72.899 Conn L = STA 635+26.580 (118)



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000  
**E-4**

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



USERNAME => s110796  
 DGN FILE => 711679uo004.dgn

CU 07388

EA 116791

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 ITS DEVELOPMENT  
 PROJECT ENGINEER  
 SUNG LEE  
 DATE REVISIONS BY DATE REVISIONS BY  
 CALCULATED/DESIGNED BY CHECKED BY  
 REVISOR'S NAME DATE REVISIONS BY DATE REVISIONS BY

LAST REVISION: 00-00-00 DATE PLOTTED => 29-JUN-2010 TIME PLOTTED => 09:44

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER  
 SUNG LEE

REVISOR  
 DATE  
 REVISIONS

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN			
CONDUIT AND CONDUCTOR TYPE	FUNCTION				
		1	2	3	4
48SMFO CABLE	DATA/VOICE	1			
36SMFO CABLE	VIDEO/VOICE		1		
48SMFO CABLE	VIDEO/DATA			1	
INNERDUCT (SIZE 25)		1	1	1	4
CONDUIT SIZE		103		103	



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var	378	667

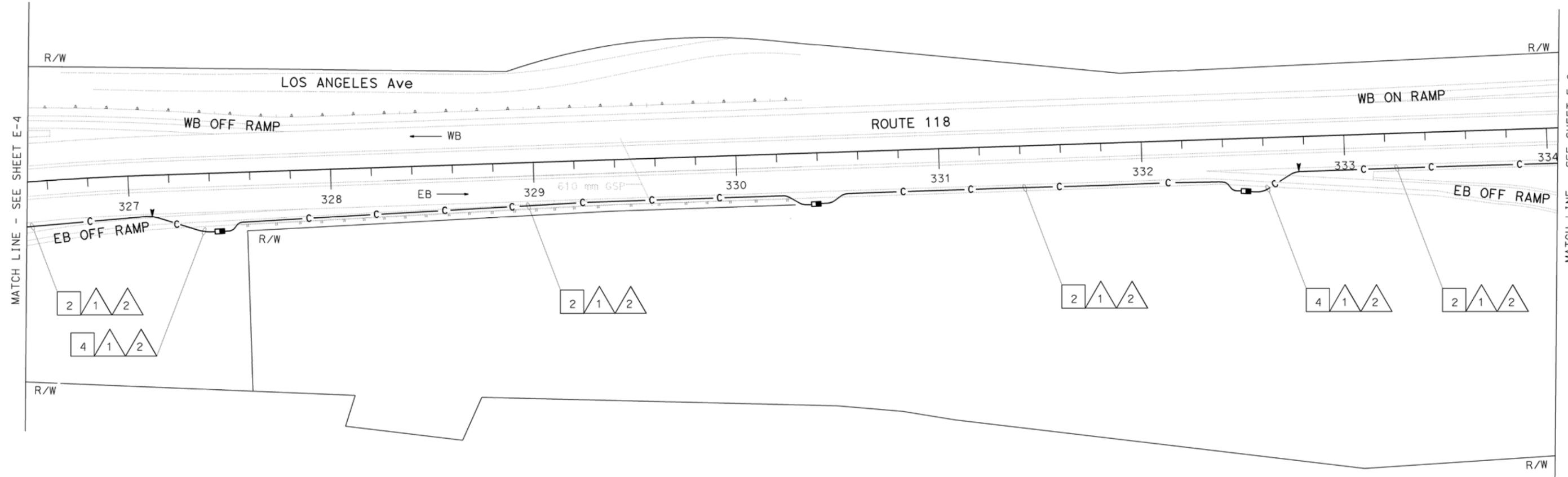
REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE

**SUNG LEE**  
 No. E16249  
 Exp. 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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



USERNAME => s110796  
 DGN FILE => 711679uo005.dgn

CU 07388 EA 116791

DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:44

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE  
 DATE: REVISED BY: DATE REVISED BY: CALCULATED/DESIGNED BY: CHECKED BY:

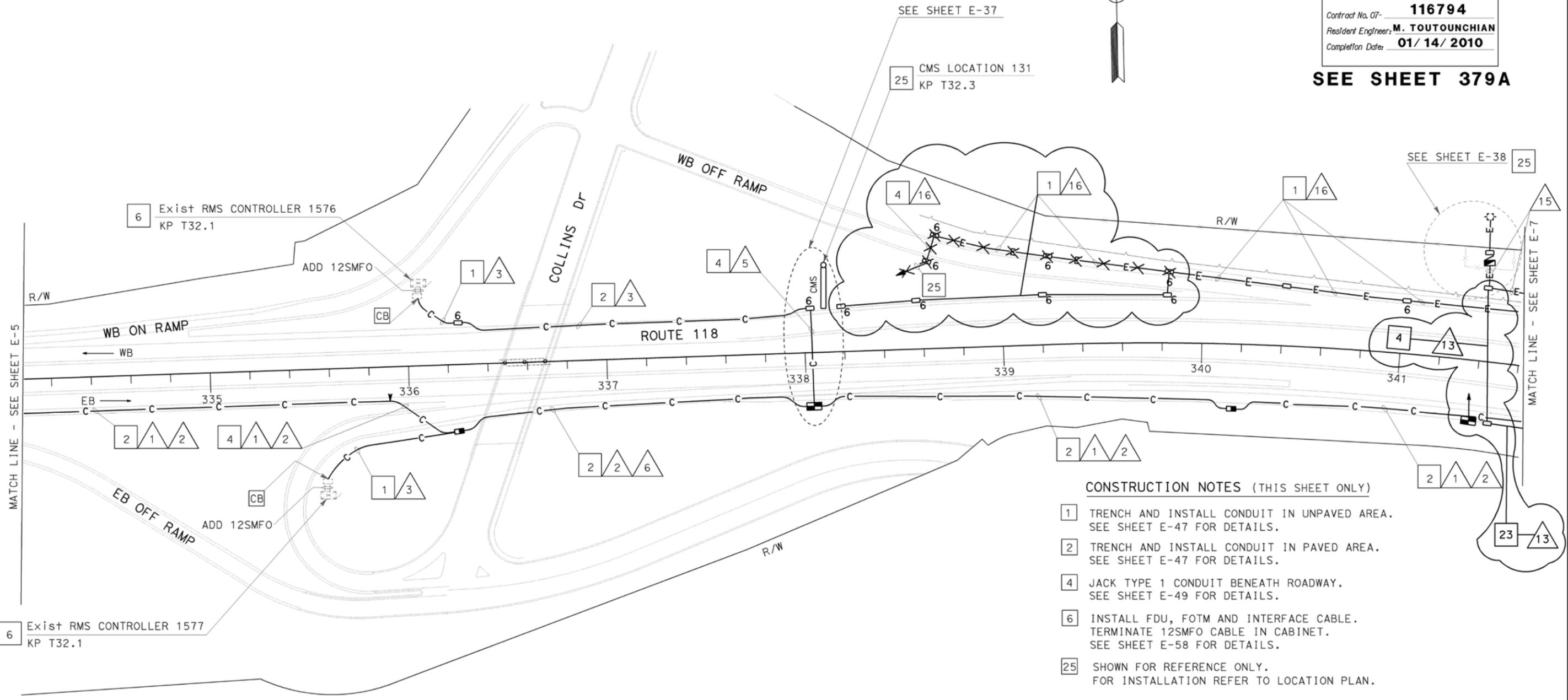
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN												
CONDUIT AND CONDUCTOR TYPE	FUNCTION													
		1	2	3	5	6	15	16	15	16				
48SMFO CABLE	DATA/VOICE	1					1							
36SMFO CABLE	VIDEO/VOICE		1					1						
48SMFO CABLE	VIDEO/DATA			1					1					
12SMFO CABLE	DATA/VOICE				1	1	1							
#4	POWER											10	2	
#1/0	POWER											14	12	
INNERDUCT (SIZE 25)		1	1	1	1	4		1	1	1	1	1		
CONDUIT SIZE			103	103	53	78			103			103	103	



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var		379	667

REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA  
 ELECTRICAL  
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**  
 Contract No. 07-116794  
 Resident Engineer: M. TOUTOUNCHIAN  
 Completion Date: 01/14/2010  
**SEE SHEET 379A**



- CONSTRUCTION NOTES (THIS SHEET ONLY)**
- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
  - 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
  - 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
  - 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.
  - 25 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO LOCATION PLAN.

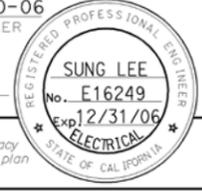
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000  
**E-6**

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	Ven, LA	23,118	Var	380	667
<i>Leesunghwan</i> 08-30-06 REGISTERED ELECTRICAL ENGINEER					
10-2-06 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: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>					



**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**  
**SEE SHEET 380A**

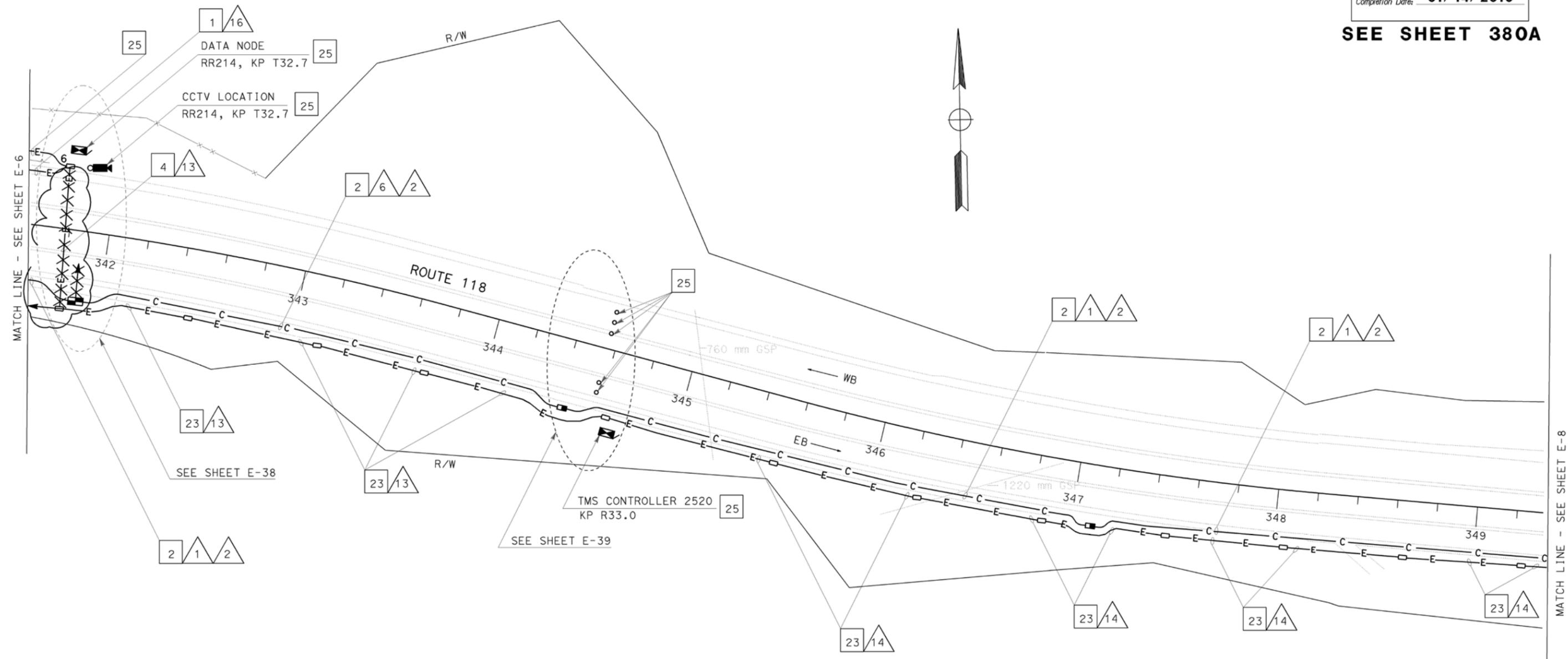
**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.
- 25 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO LOCATION PLAN.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN													
		1	2	6	13	14	15	16							
48SMFO CABLE	DATA/VOICE	1													
36SMFO CABLE	VIDEO/VOICE		1			1									
48SMFO CABLE	VIDEO/DATA			1			1								
12SMFO CABLE	DATA/VOICE							1							
#4	POWER								2			10	2		
#1/0	POWER								2	2	14	12			
INNERDUCT (SIZE 25)		1	1	1	1	4	1	1	1	1					
CONDUIT SIZE						103	103	103	78	53	103	103			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 ITS DEVELOPMENT  
 PROJECT ENGINEER  
**SUNG LEE**  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE REVISED BY  
 DATE REVISED



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000  
**E-7**

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 PROJECT ENGINEER  
 SUNG LEE  
 ITS DEVELOPMENT

DATE REVISIONS BY  
 10/05 10/05  
 SL CC  
 CALCULATED/DESIGNED BY  
 CHECKED BY

**PROJECT NOTES: (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.
- 25 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO LOCATION PLAN.
- 41 INSTALL 1#2 FOR BONDING WIRE.
- 42 INSTALL 1#6 FOR BONDING WIRE.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN							
		1	2	6	3	4	5	6	
48SMFO CABLE	DATA/VOICE	1			1				
36SMFO CABLE	VIDEO/VOICE		1			1			
48SMFO CABLE	VIDEO/DATA			1					
12SMFO CABLE	DATA/VOICE						1		
#4	POWER							2	14
#1/0	POWER							2	4
INNERDUCT (SIZE 25)		1	1	1	1	4	1	1	1
CONDUIT SIZE								78	53
								103	78

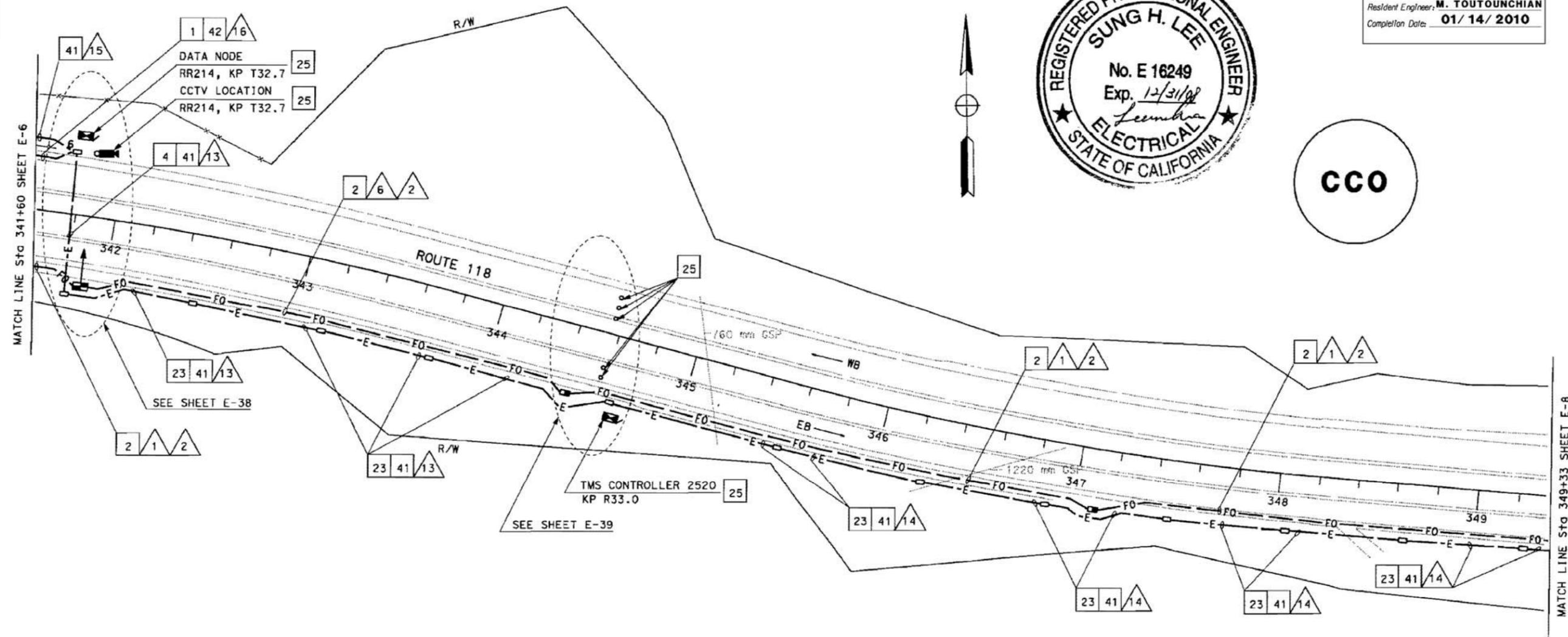
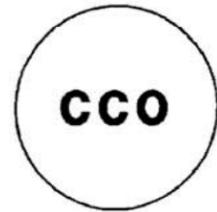


6#3/0 AND 2#4

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23, 118	Var	380A	667

REGISTERED ELECTRICAL ENGINEER  
 09-06-05  
 10-2-06  
 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.  
 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**  
 Contract No. 07-116794  
 Resident Engineer: M. TOUTOUNCHIAN  
 Completion Date: 01/14/2010



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 METER UNLESS OTHERWISE SHOWN.  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000  
**E-7A**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER  
 SUNG LEE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE  
 REVISED BY  
 DATE REVISED

- CONSTRUCTION NOTES (THIS SHEET ONLY)**
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
  - 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
48SMFO CABLE	DATA/VOICE	1				
36SMFO CABLE	VIDEO/VOICE		1			
48SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	DATA/VOICE					
#1/0	POWER					2
INNERDUCT (SIZE 25)		1	1	1	1	4
CONDUIT SIZE			103		103	53



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven,LA	23,118	Var	381	667

Leesunghuan 08-30-06  
 REGISTERED ELECTRICAL ENGINEER

10-2-06  
 PLANS APPROVAL DATE

SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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.

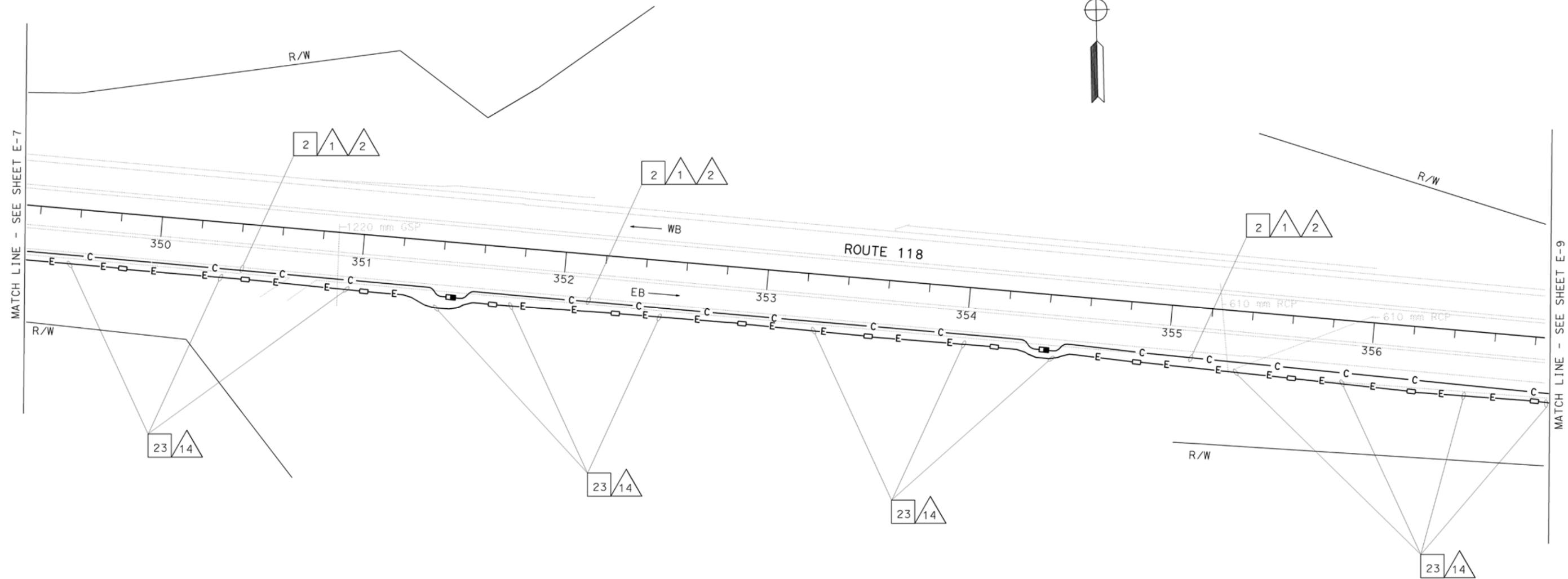
To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**

Contract No. 07- **116794**

Resident Engineer: **M. TOUTOUNCHIAN**

Completion Date: **01/14/2010**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

**E-8**

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



USERNAME => s110796  
 DGN FILE => 711679u0008.dgn

CU 07388

EA 116791

DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45  
 LAST REVISION  
 00-00-00

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven,LA	23,118	Var	382	667

Leesunghuan 08-30-06  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>



**CONSTRUCTION NOTES (THIS SHEET ONLY)**

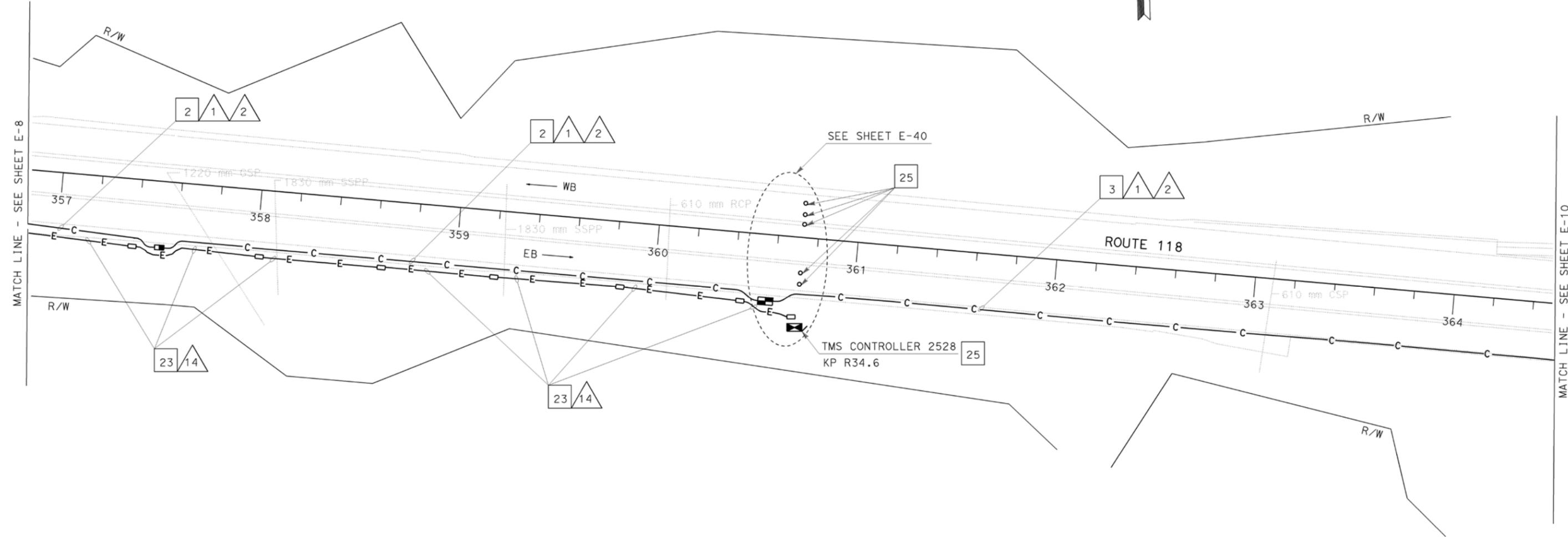
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 3 TRENCH AND INSTALL TYPE 1 CONDUIT IN PAVED AREA, MINIMUM DEPT OF 1200 mm. SEE SHEET E-48 FOR DETAILS.
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.
- 25 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO LOCATION PLAN.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN			
CONDUIT AND CONDUCTOR TYPE	FUNCTION				
		1	2	3	4
48SMFO CABLE	DATA/VOICE	1			
36SMFO CABLE	VIDEO/VOICE		1		
48SMFO CABLE	VIDEO/DATA			1	
12SMFO CABLE	DATA/VOICE				
#1/0	POWER				2
INNERDUCT (SIZE 25)		1	1	1	4
CONDUIT SIZE		103		103	53

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 ITS DEVELOPMENT  
 PROJECT ENGINEER  
 SUNG LEE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE  
 REVISIONS  
 DATE  
 REVISIONS  
 DATE  
 REVISIONS



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000  
**E-9**

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



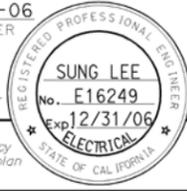
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET TOTAL SHEETS
07	Ven, LA	23,118	Var	383	667

*Leesunghwan* 08-30-06  
 REGISTERED ELECTRICAL ENGINEER

10-2-06  
 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- **116794**

Resident Engineer: **M. TOUTOUNCHIAN**

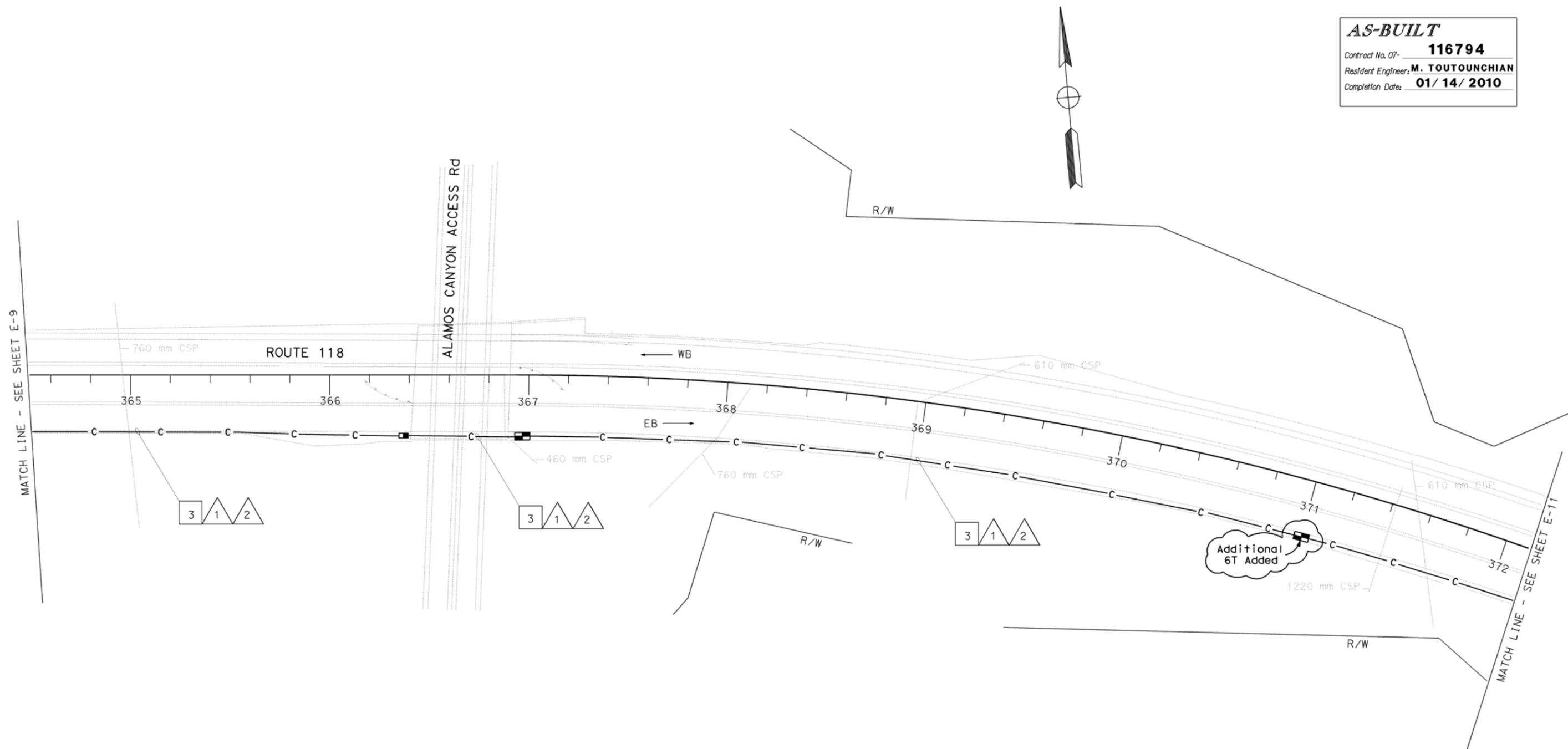
Completion Date: **01/14/2010**

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN			
		1	2	3	4
48SMFO CABLE	DATA/VOICE	1			
36SMFO CABLE	VIDEO/VOICE		1		
48SMFO CABLE	VIDEO/DATA			1	
INNERDUCT (SIZE 25)		1	1	1	4
CONDUIT SIZE		103			103

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 3 TRENCH AND INSTALL TYPE 1 CONDUIT IN PAVED AREA, MINIMUM DEPT OF 1200 mm. SEE SHEET E-48 FOR DETAILS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER	DESIGNED BY	REVISOR
<b>Caltrans</b>	<b>SUNG LEE</b>	CHECKED BY	DATE
<b>ITS DEVELOPMENT</b>			



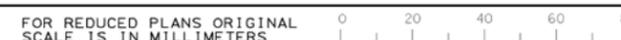
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

**E-10**

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



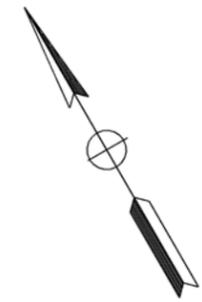
LAST REVISION: 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER  
 SUNG LEE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE REVISION  
 DATE REVISION  
 DATE REVISION

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 3 TRENCH AND INSTALL TYPE 1 CONDUIT, MINIMUM DEPTH OF 1200 mm. SEE SHEET E-48 FOR DETAILS.
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.
- 25 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO LOCATION PLAN.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
48SMFO CABLE	DATA/VOICE	1				
36SMFO CABLE	VIDEO/VOICE		1			
48SMFO CABLE	VIDEO/DATA			1		
#2	POWER					2
INNERDUCT (SIZE 25)		1	1	1	1	4
CONDUIT SIZE		103		103	53	



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var	384	667

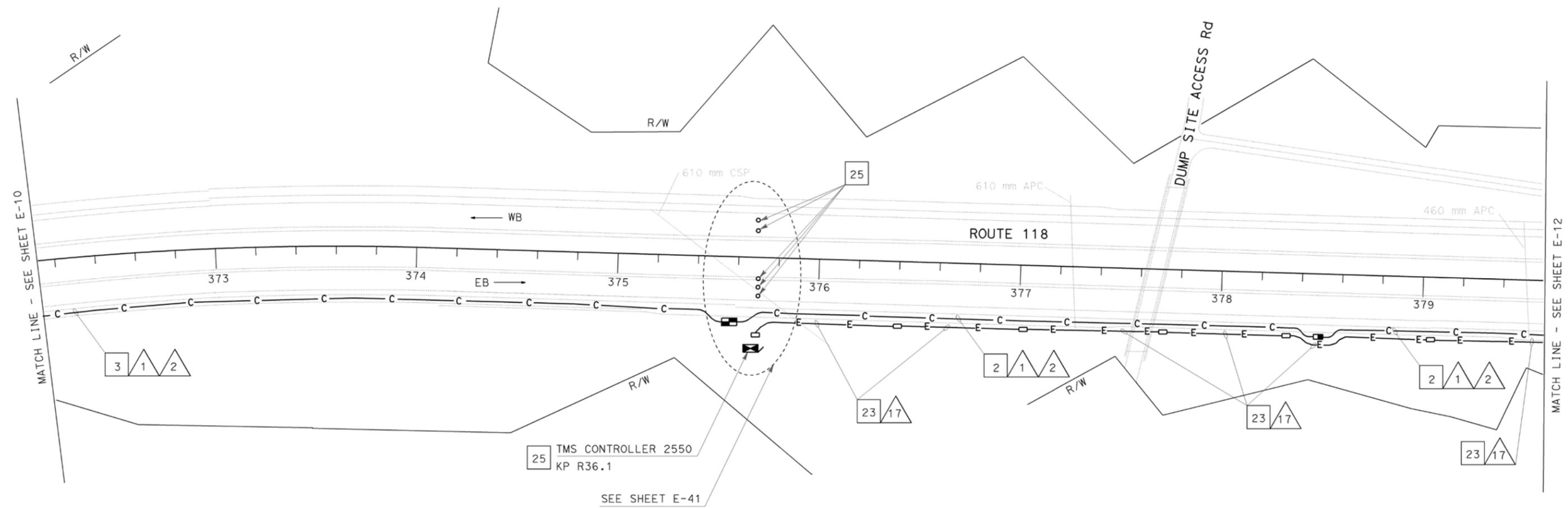
REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE

**SUNG LEE**  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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



USERNAME => s110796  
 DGN FILE => 711679ua011.dgn

CU 07388

EA 116791

LAST REVISION  
 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.
- 12 ADD 2#2 IN EXISTING CONDUIT.
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN						
		1	2	3	12	17	24	
48SMFO CABLE	DATA/VOICE	1						
36SMFO CABLE	VIDEO/VOICE		1					
48SMFO CABLE	VIDEO/DATA			1				
12SMFO CABLE	DATA/VOICE				1			1
#2	POWER						2	
INNERDUCT (SIZE 25)		1	1	1	1	4		
CONDUIT SIZE			103	103	53	53	53	78



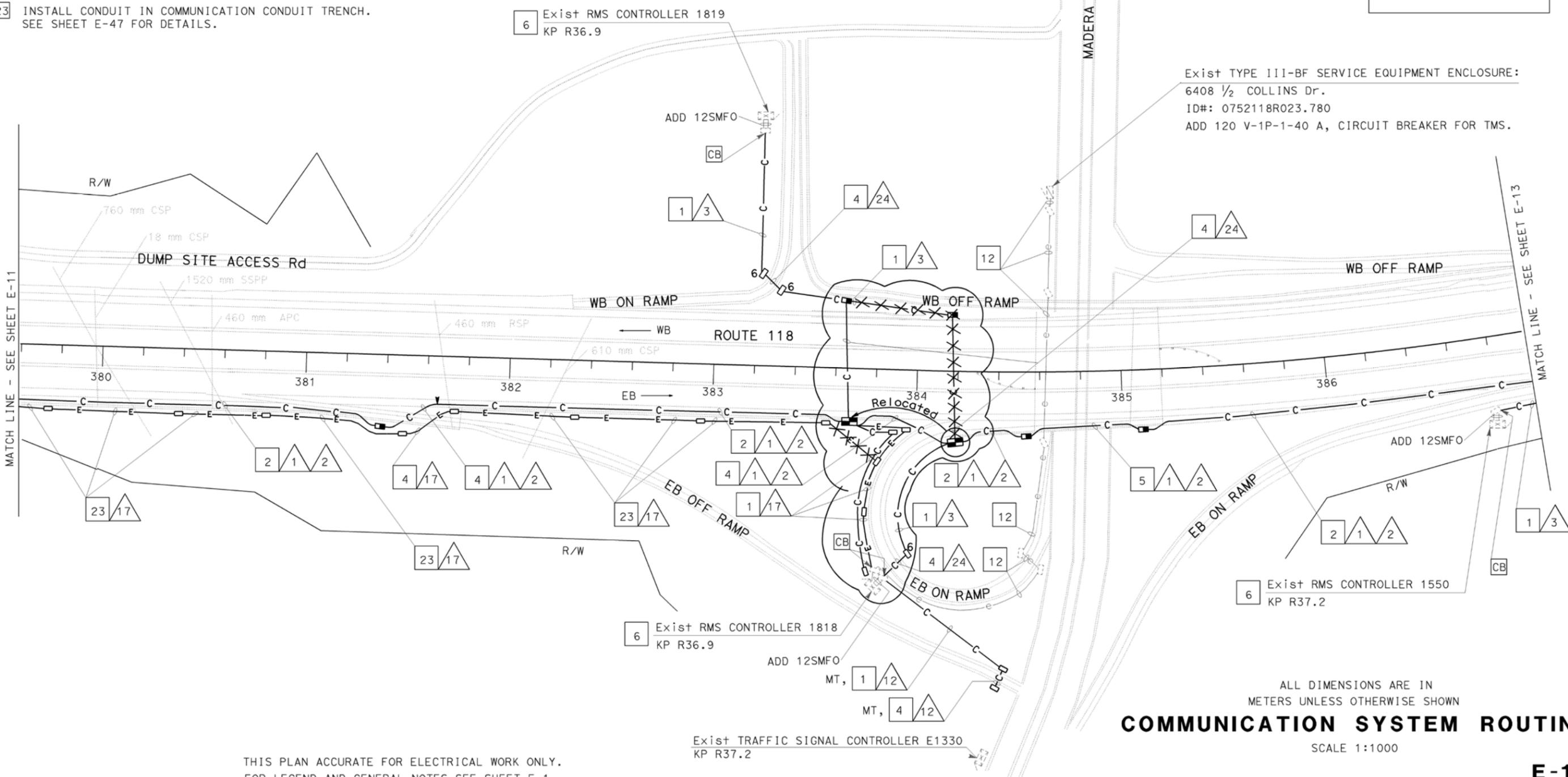
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var		385	667

REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE

**SUNG LEE**  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 ELECTRICAL  
 STATE OF CALIFORNIA

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

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

USERNAME => s110796  
 DGN FILE => 711679uo012.dgn

CU 07388 EA 116791

DATE REVISION BY

CALCULATED/DESIGNED BY  
 CHECKED BY

PROJECT ENGINEER  
 SUNG LEE

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

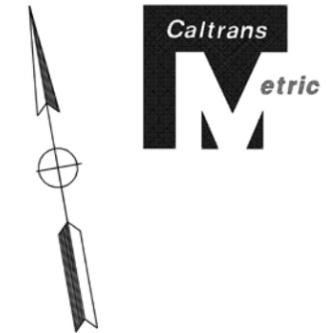
LAST REVISION  
 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE  
 DATE REVISION: 00-00-00  
 TIME PLOTTED: 20-00-00  
 DATE PLOTTED: 20-JUN-2010  
 TIME PLOTTED: 09:45

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

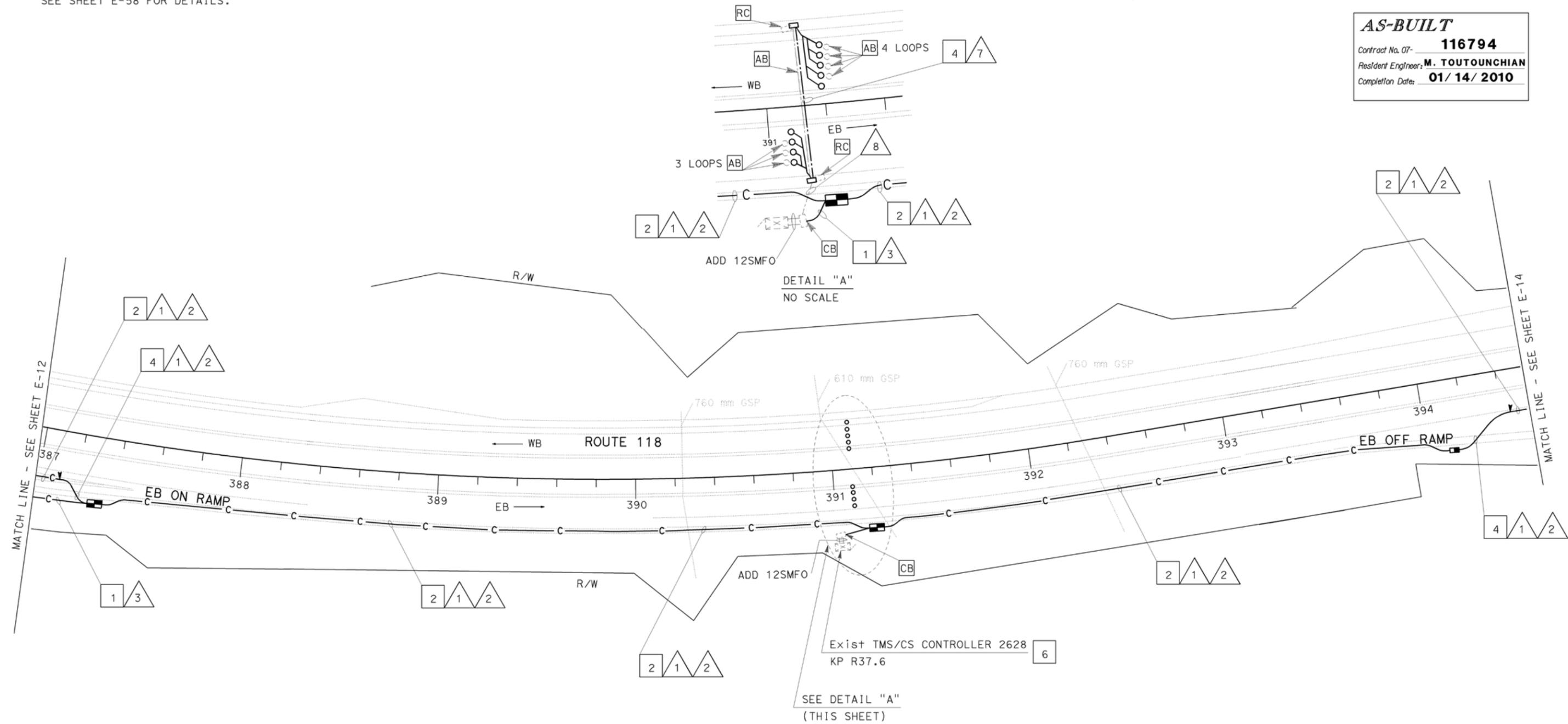
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN					
		1	2	3	7	8	
48SMFO CABLE	DATA/VOICE	1					
36SMFO CABLE	VIDEO/VOICE		1				
48SMFO CABLE	VIDEO/DATA			1			
12SMFO CABLE	DATA/VOICE				1		
DLC	RAMP/COUNT					5	9
INNERDUCT (SIZE 25)		1	1	1	1	4	
CONDUIT SIZE		103		103	53	78	78



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var		386	667

REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 ELECTRICAL  
 STATE OF CALIFORNIA  
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**  
 Contract No. 07-116794  
 Resident Engineer: M. TOUTOUNCHIAN  
 Completion Date: 01/14/2010



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**

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



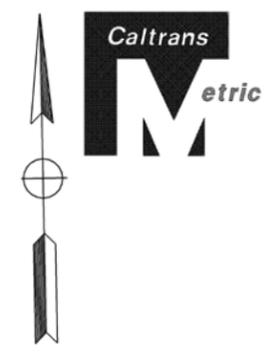
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE  
 DATE REVISIONS: [REVISIONS TABLE]

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

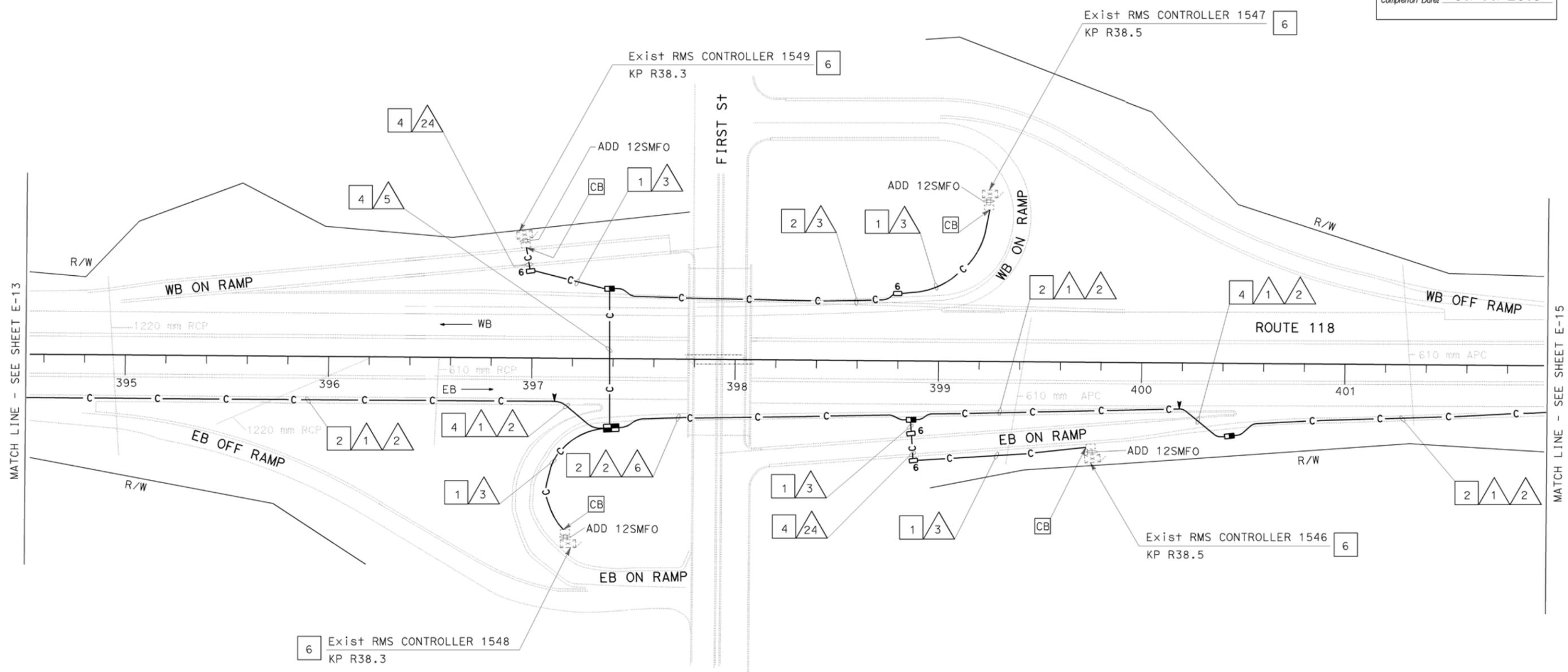
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN						
		1	2	3	5	6	24	
48SMFO CABLE	DATA/VOICE	1					1	
36SMFO CABLE	VIDEO/VOICE		1					1
48SMFO CABLE	VIDEO/DATA			1				1
12SMFO CABLE	DATA/VOICE				1	2		1
INNERDUCT (SIZE 25)		1	1	1	1	4		1
CONDUIT SIZE								
		103	103	53	78		103	78



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23, 118	Var		387	667

REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA  
 ELECTRICAL  
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**  
 Contract No. 07-116794  
 Resident Engineer: M. TOUTOUNCHIAN  
 Completion Date: 01/14/2010



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

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



**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN				
CONDUIT AND CONDUCTOR TYPE	FUNCTION	1			2	3
		1	1	1	4	1
48SMFO CABLE	DATA/VOICE	1				
36SMFO CABLE	VIDEO/VOICE		1			
48SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	DATA/VOICE					1
INNERDUCT (SIZE 25)		1	1	1	4	
CONDUIT SIZE		103			103	53



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23, 118	Var	388	667

REGISTERED ELECTRICAL ENGINEER  
*Leesunghwan* 08-30-06  
 REGISTERED ELECTRICAL ENGINEER

PLANS APPROVAL DATE: 10-2-06

REGISTERED PROFESSIONAL ENGINEER  
 SUNG LEE  
 No. E16249  
 Exp. 12/31/06  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>

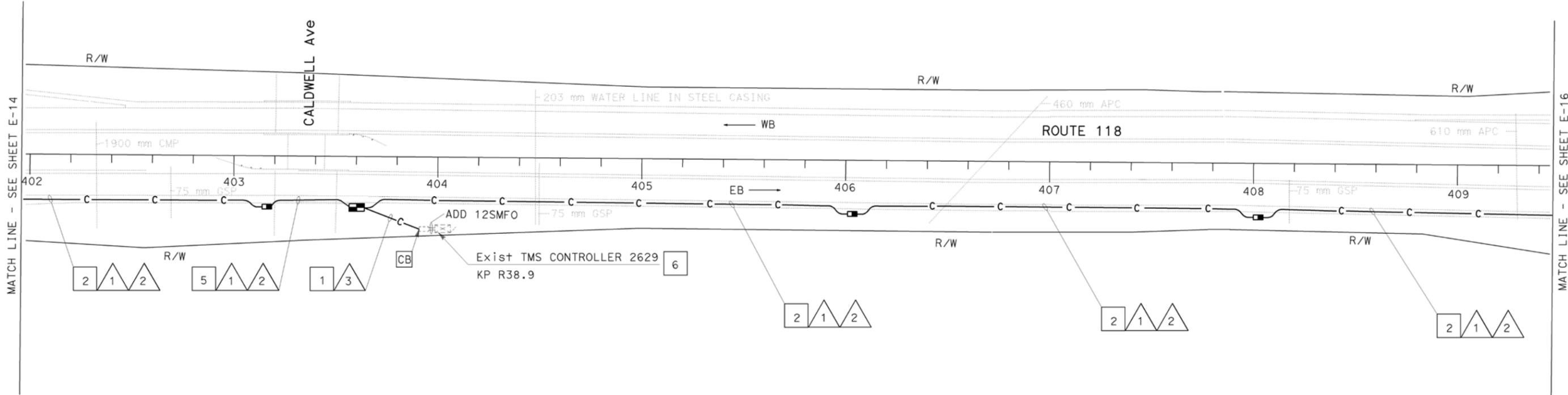
**AS-BUILT**

Contract No. 07- **116794**

Resident Engineer: **M. TOUTOUNCHIAN**

Completion Date: **01/14/2010**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**ITS DEVELOPMENT**  
 PROJECT ENGINEER: SUNG LEE  
 REVISIONS: (Grids with numbers 1, 2, 3, 5, 6)  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 DATE REVISION: [Blank]  
 DATE REVIS: [Blank]



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

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



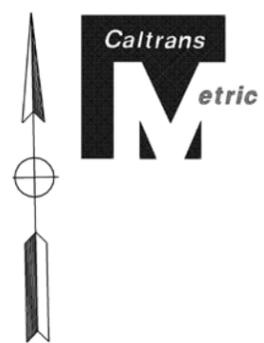
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE  
 DATE REVISION: 00-00-00  
 DATE PLOTTED: 29-JUN-2010  
 TIME PLOTTED: 09:45

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

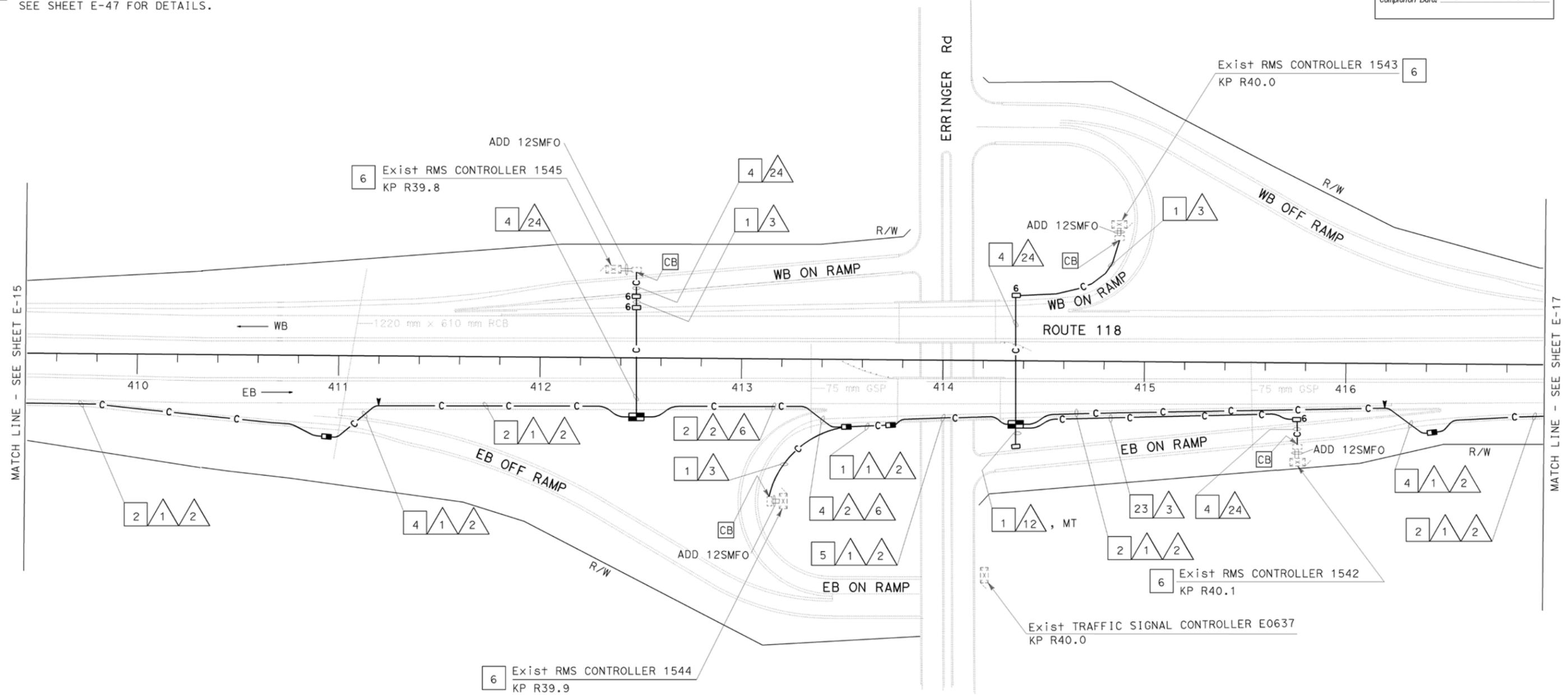
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN									
		1	2	3	6	12	24				
48SMFO CABLE	DATA/VOICE	1				1					
36SMFO CABLE	VIDEO/VOICE		1				1				
48SMFO CABLE	VIDEO/DATA			1			1				
12SMFO CABLE	DATA/VOICE				1			1	1		1
INNERDUCT (SIZE 25)		1	1	1	1	4	1	1	1	1	
CONDUIT SIZE		103		103		53	103		53		78



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23, 118	Var	389	667

REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 ELECTRICAL  
 STATE OF CALIFORNIA  
 To get to the Caltrans web site, go to: <http://www.ddt.ca.gov>

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



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



**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

**E-16**

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
48SMFO CABLE	DATA/VOICE	1				
36SMFO CABLE	VIDEO/VOICE		1			
48SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	DATA/VOICE					1
INNERDUCT (SIZE 25)		1	1	1	1	4
CONDUIT SIZE		103		103	78	



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23, 118	Var		390	667

*Leesunghuan* 08-30-06  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 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.

REGISTERED PROFESSIONAL ENGINEER  
**SUNG LEE**  
 No. E16249  
 Exp. 12/31/06  
 ELECTRICAL  
 STATE OF CALIFORNIA

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

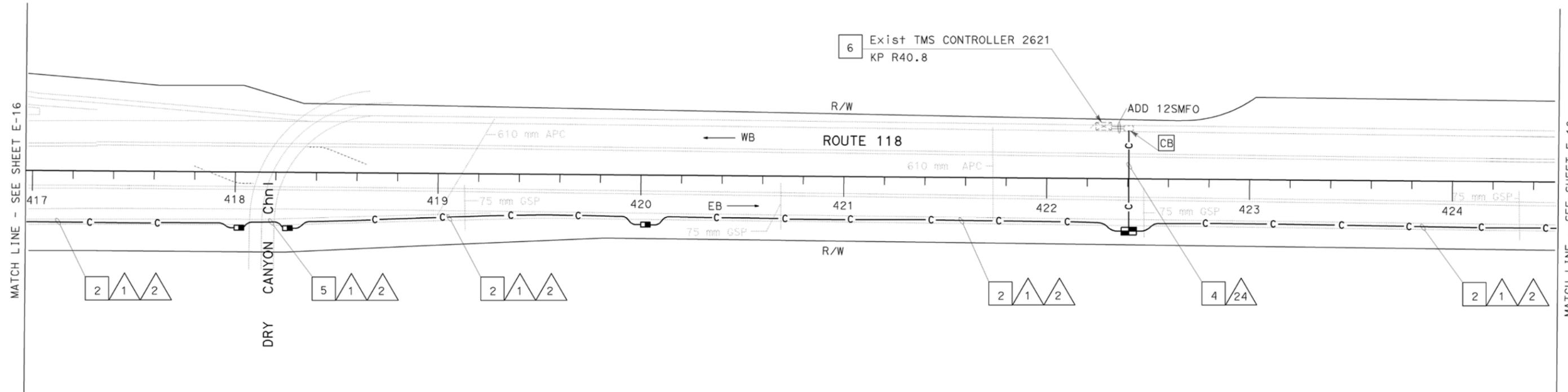
**AS-BUILT**

Contract No. 07- **116794**

Resident Engineer: **M. TOUTOUNCHIAN**

Completion Date: **01/14/2010**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**ITS DEVELOPMENT**  
 PROJECT ENGINEER  
**SUNG LEE**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**

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

SCALE 1:1000

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

USERNAME => s110796  
DGN FILE => 711679uo017.dgn

CU 07388

EA 116791

LAST REVISION  
 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN							
		1	2	3	6	12	24		
48SMFO CABLE	DATA/VOICE	1				1			
36SMFO CABLE	VIDEO/VOICE		1				1		
48SMFO CABLE	VIDEO/DATA			1			1		
12SMFO CABLE	DATA/VOICE				1			1	1
INNERDUCT (SIZE 25)		1	1	1	1	4	1	1	1
CONDUIT SIZE		103		103	53	103		53	78

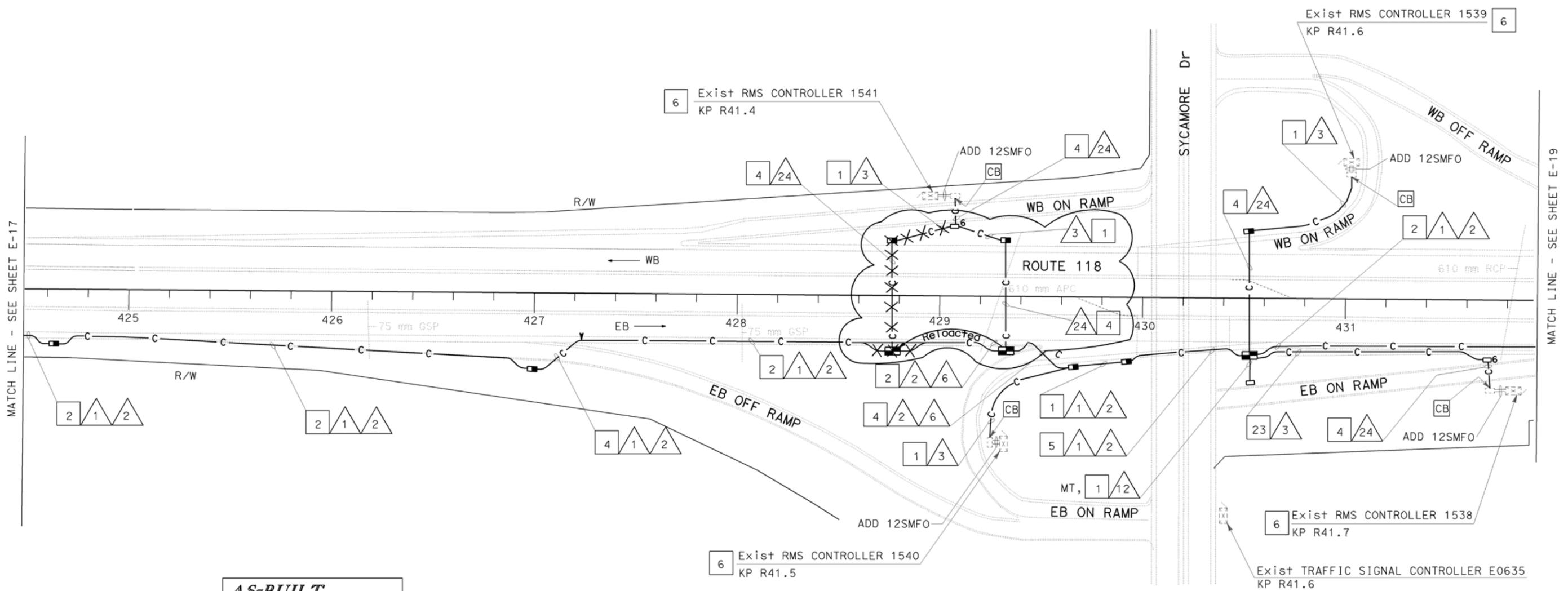


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23, 118	Var	391	667

*Leesungkwan* 08-30-06  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 PLANS APPROVAL DATE  
 REGISTERED PROFESSIONAL ENGINEER  
**SUNG LEE**  
 No. E16249  
 Exp. 12/31/06  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>



PROJECT ENGINEER: SUNG LEE  
 CALCULATED/DESIGNED BY: [ ]  
 CHECKED BY: [ ]  
 DATE REVISED BY: [ ]  
 DATE REVISED: [ ]



**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**

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



USERNAME => s110796  
 DGN FILE => 7116794u018.dgn

CU 07388

EA 116791

LAST REVISION: 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven,LA	23,118	Var		392	667

Registered Electrical Engineer  
 Leesunghwan 08-30-06  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>



**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	24
48SMFO CABLE	DATA/VOICE	1				
36SMFO CABLE	VIDEO/VOICE		1			
48SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	DATA/VOICE					1
INNERDUCT (SIZE 25)		1	1	1	1	4
CONDUIT SIZE			103		103	78

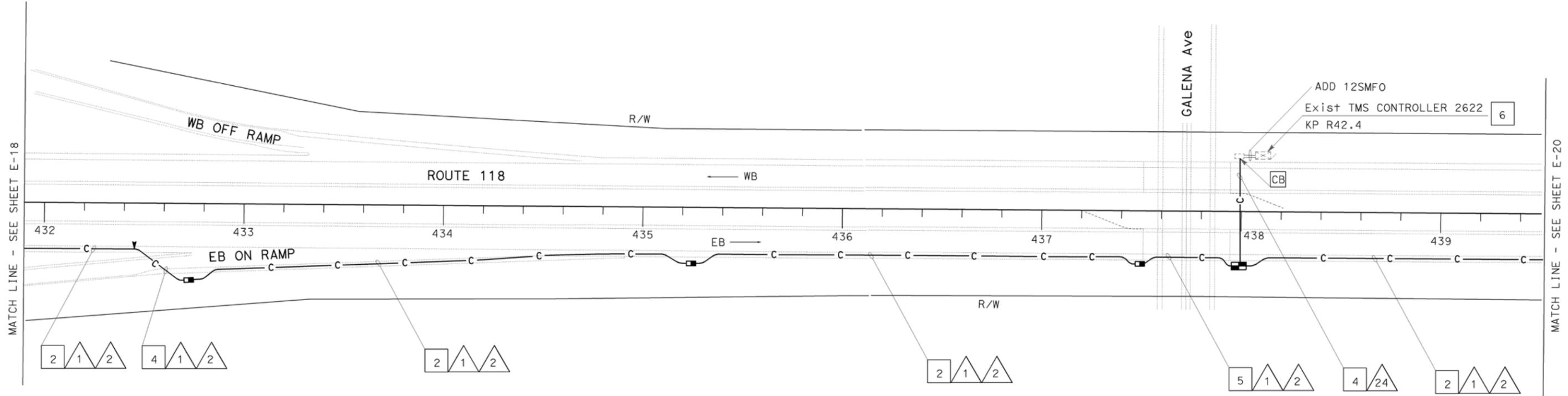
**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**

DATE REVISED BY  
DATE REVISED

CALCULATED/DESIGNED BY  
CHECKED BY

PROJECT ENGINEER  
SUNG LEE

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



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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



USERNAME => s110796  
 DGN FILE => 711679uo019.dgn

CU 07388

EA 116791

LAST REVISION  
 00-00-00 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45

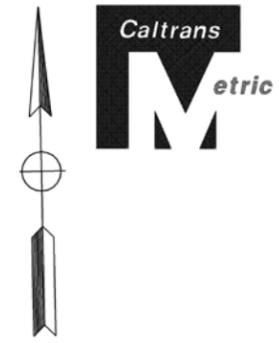
**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN					
		1	2	3	24	25	
48SMFO CABLE	DATA/VOICE	1					1
36SMFO CABLE	VIDEO/VOICE		1				1
48SMFO CABLE	VIDEO/DATA		1				1
12SMFO CABLE	DATA/VOICE				1	1	
INNERDUCT (SIZE 25)		1	1	1	1	4	1
CONDUIT SIZE		103		103	53	78	78(E)

(E): EXISTING



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var	393	667

REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE

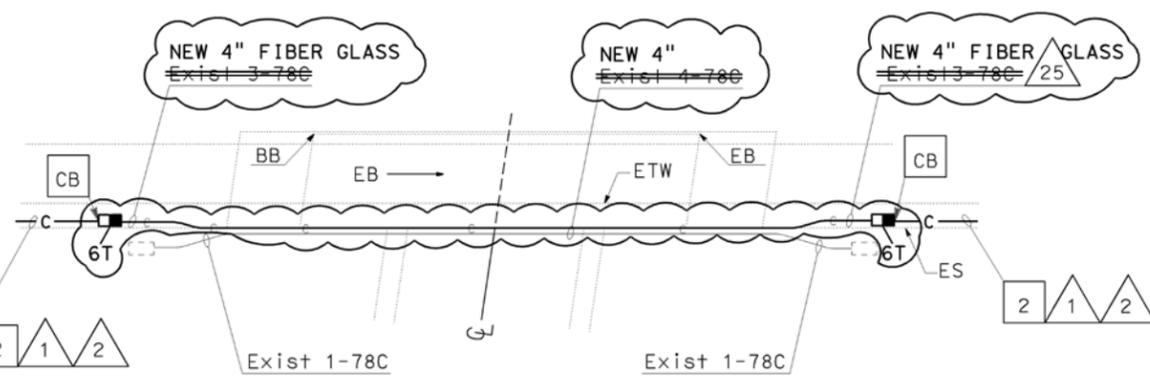
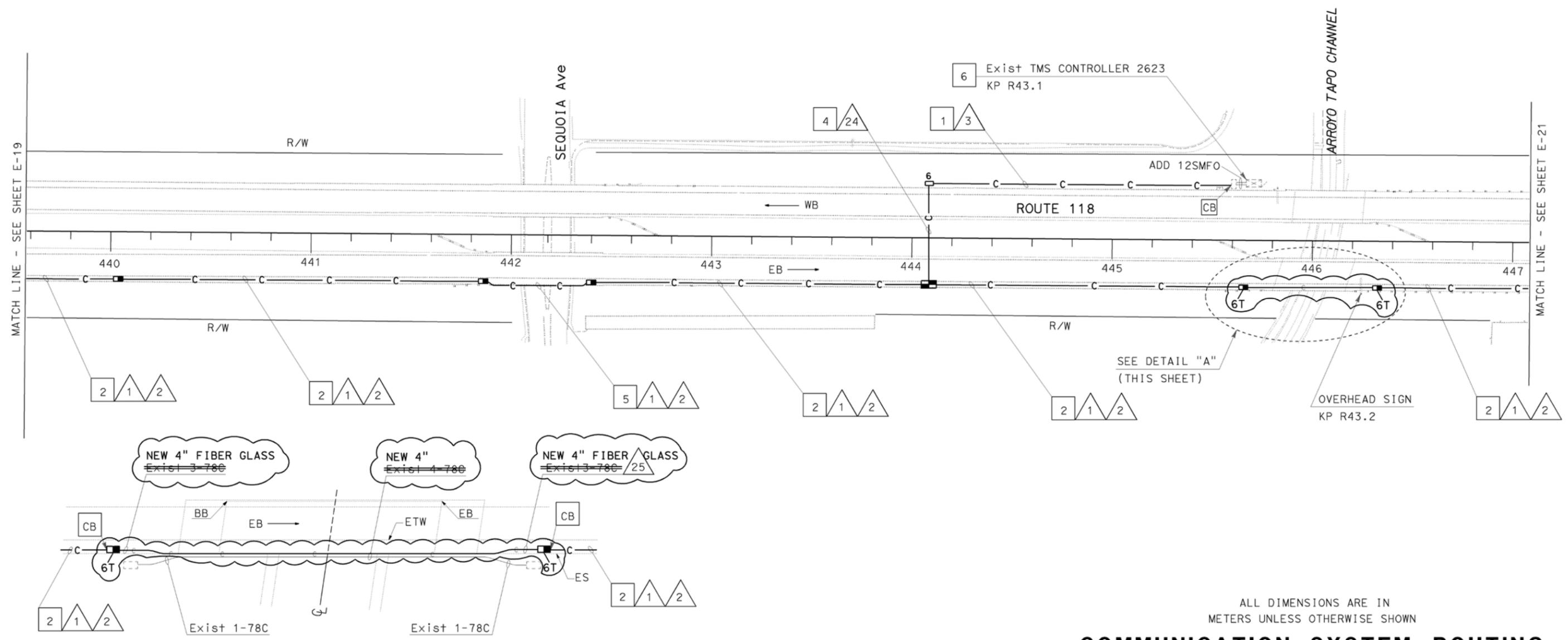
**SUNG LEE**  
 No. E16249  
 Exp. 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 ELECTRICAL  
 STATE OF CALIFORNIA

*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 the Caltrans web site, go to: <http://www.ddt.ca.gov>

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**

**SEE SHEET 393A & 393B**



DETAIL "A"  
NO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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



USERNAME => s110796  
 DGN FILE => 711679ua020.dgn

CU 07388

EA 116791

REVISOR  
DATE

DATE

DESIGNED BY  
CHECKED BY

PROJECT ENGINEER  
SUNG LEE

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

Caltrans logo and project name

LAST REVISION  
00-00-00  
DATE PLOTTED => 29-JUN-2010  
TIME PLOTTED => 09:45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 ITS DEVELOPMENT  
 PROJECT ENGINEER  
 SUNG LEE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 SL CC  
 DATE REVISED BY  
 DATE REVISED  
 07/05 10/05

**PROJECT NOTES: (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOAM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

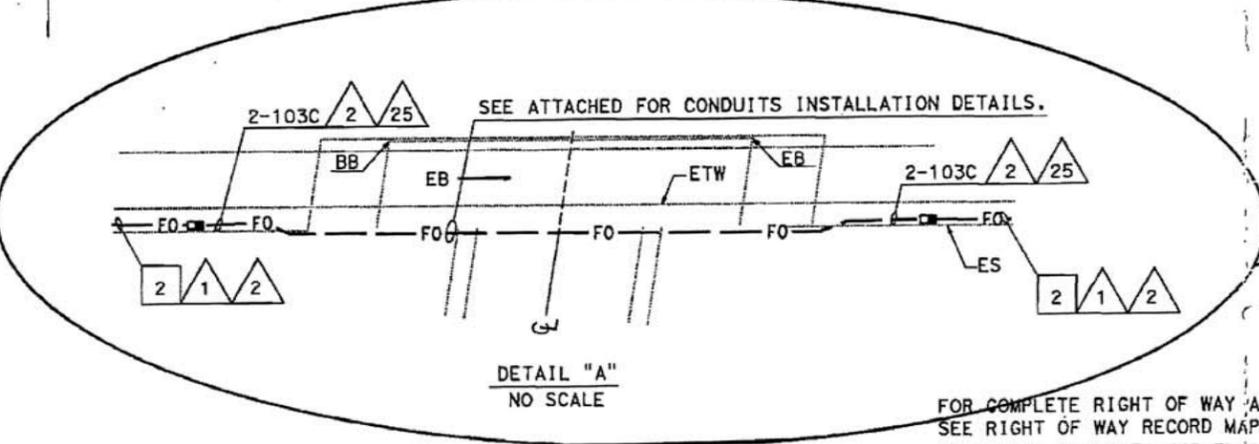
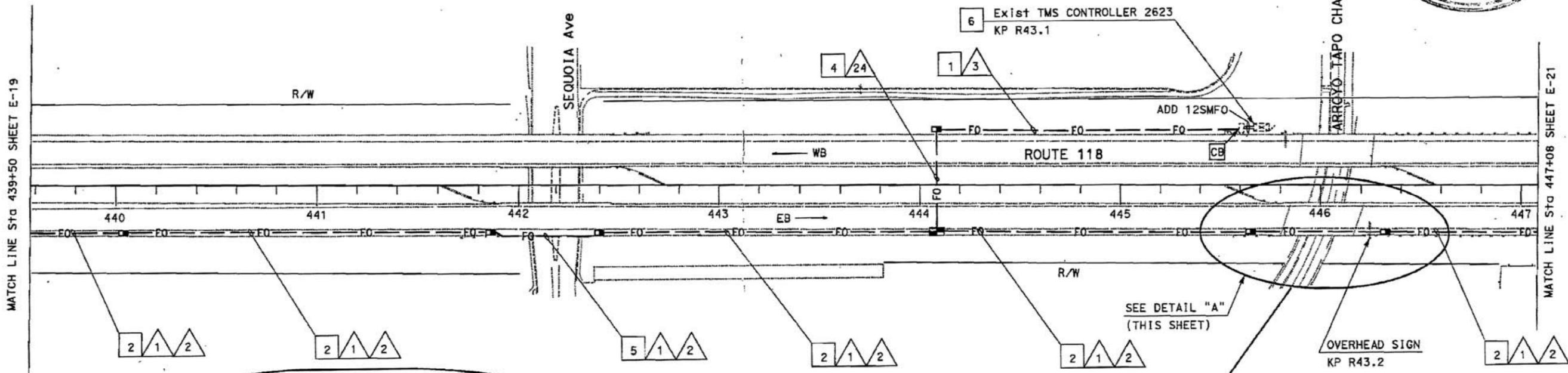
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
48SMFO CABLE	DATA/VOICE	1				1
36SMFO CABLE	VIDEO/VOICE		1			1
48SMFO CABLE	VIDEO/DATA		1			1
12SMFO CABLE	DATA/VOICE			1	1	1
INNERDUCT (SIZE 25)		1	1	1	1	4
CONDUIT SIZE		103	103	53	78	103

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven, LA	23,118	Var	393A	667

09-06-05  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 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.  
 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>



**CHANGE**

**CHANGE**

**CHANGE**

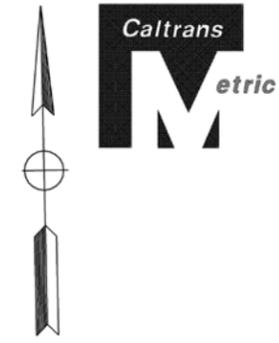
**CCO**

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 METER UNLESS OTHERWISE SHOWN.  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000  
**E-20A**

DATE PLOTTED 29-NOV-2007  
 TIME PLOTTED 09:54

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN																		
CONDUIT AND CONDUCTOR TYPE	FUNCTION																			
		1	2	3	6	11	12	24	26	27	1	2	3	6	11	12	24	26	27	
48SMFO CABLE	DATA/VOICE	1					1				1						1			
36SMFO CABLE	VIDEO/VOICE		1					1				1						1		
48SMFO CABLE	VIDEO/DATA			1				1				1						1		
12SMFO CABLE	DATA/VOICE				1				1			2			1				2	
INNERDUCT (SIZE 25)		1	1	1	1	4		1	1	1	1	1	1	1	1	1	1	1	1	
CONDUIT SIZE		103				103	53	103				103				53	78	78		3-78



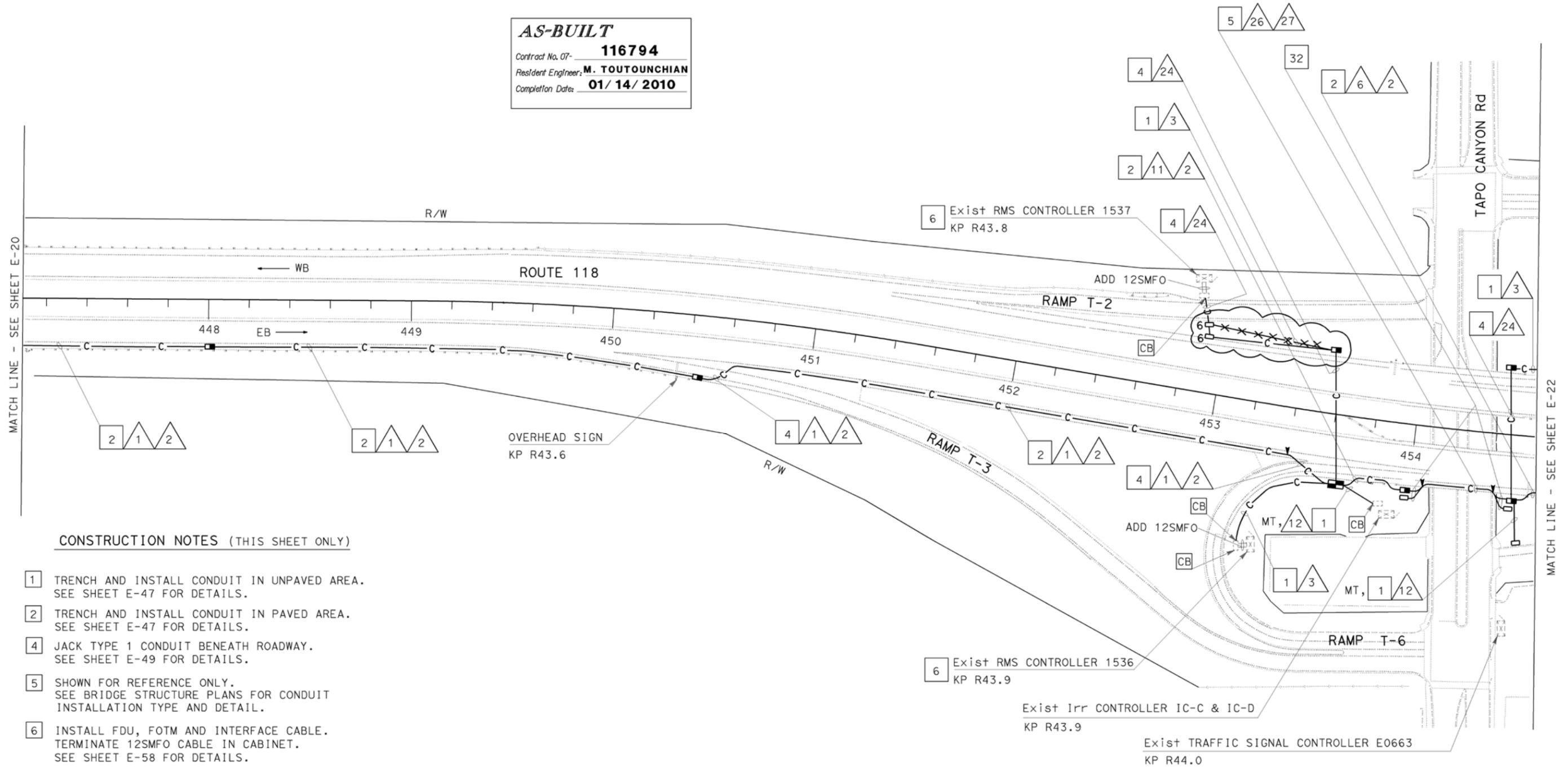
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var	394	667

Registered Electrical Engineer  
**Leesunghwan** 08-30-06  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 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>

REGISTERED PROFESSIONAL ENGINEER  
**SUNG LEE**  
 No. E16249  
 Exp. 12/31/06  
 ELECTRICAL  
 STATE OF CALIFORNIA

**AS-BUILT**

Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.
- 32 SEE SHEET E-51 FOR CONDUIT INSTALLATION DETAILS.

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

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

**E-21**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**ITS DEVELOPMENT**  
 PROJECT ENGINEER  
**SUNG LEE**  
 REVISIONS:  
 DATE REVISION BY DATE REVISOR  
 CALCULATED/DESIGNED BY CHECKED BY  
 DATE REVISOR DATE REVISOR



USERNAME => s110796  
DGN FILE => 711679uo021.dgn

CU 07388

EA 116791

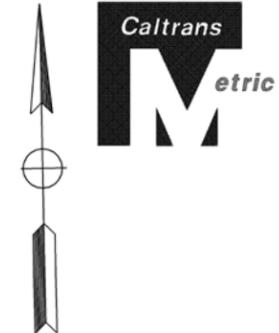
DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45  
 LAST REVISION  
 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE  
 SL CC  
 DATE REVISED BY: 10/05  
 DATE REVISED: 10/05

**PROJECT NOTES: (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

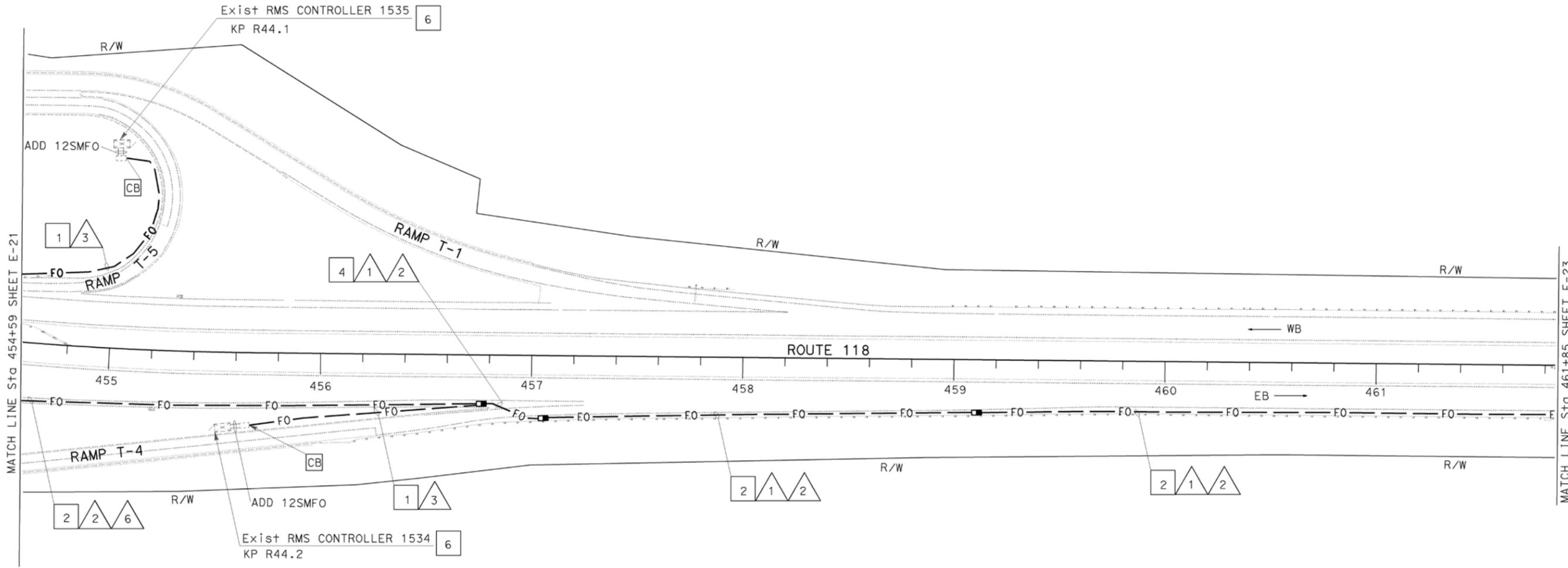
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN					
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN					
		1	2	3	4	5	6
48SMFO CABLE	DATA/VOICE	1					1
36SMFO CABLE	VIDEO/VOICE		1				1
48SMFO CABLE	VIDEO/DATA			1			1
12SMFO CABLE	DATA/VOICE					1	
INNERDUCT (SIZE 25)		1	1	1	1	4	1
CONDUIT SIZE		103		103	53	103	



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var		395	667

REGISTERED ELECTRICAL ENGINEER  
 09-06-05  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp. 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA  
 ELECTRICAL  
 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. 07-116794  
 Resident Engineer: M. TOUTOUNCHIAN  
 Completion Date: 01/14/2010



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 METER UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

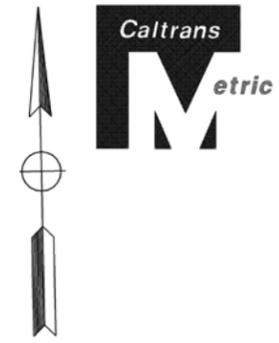
DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45  
 LAST REVISION  
 00-00-00

**PROJECT NOTES: (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.
- 26 COIL 15 m OF 12SMFO CABLE IN EXISTING CONTROLLER CABINET FOR FUTURE CONNECTION.
- 32 SEE SHEET E-51 FOR CONDUIT INSTALLATION DETAILS.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	26	27
48SMFO CABLE	DATA/VOICE	1			1	
36SMFO CABLE	VIDEO/VOICE		1			1
48SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	DATA/VOICE				1	
INNERDUCT (SIZE 25)		1	1	1	4	1
CONDUIT SIZE		103	103	53	78	3-78



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var	396	667

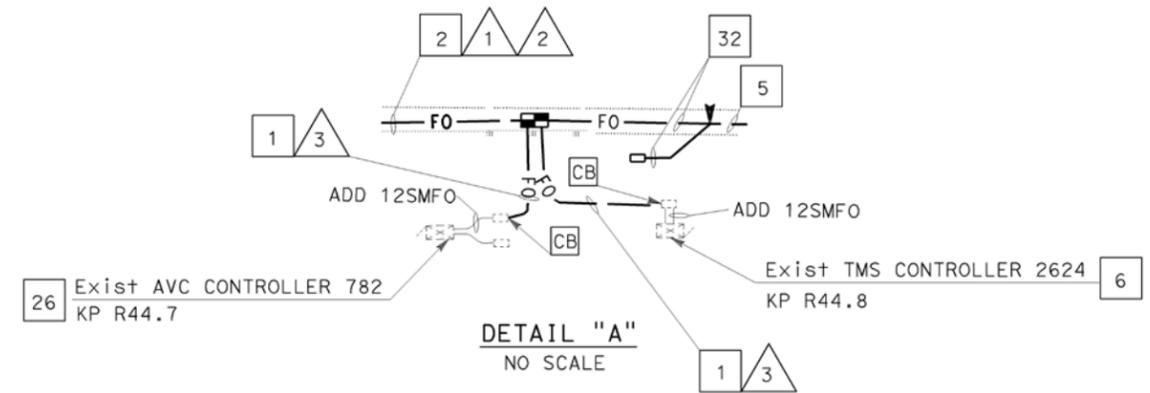
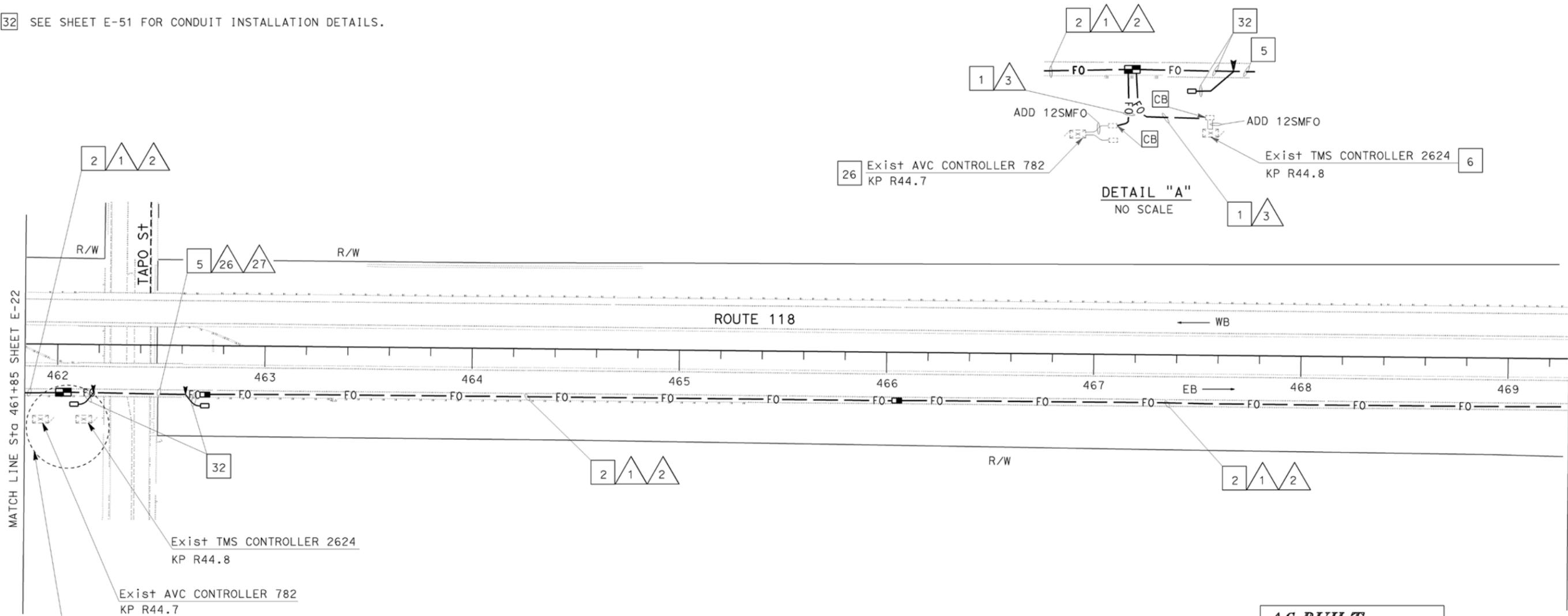
REGISTERED ELECTRICAL ENGINEER  
 09-06-05  
 10-2-06  
 PLANS APPROVAL DATE

**SUNG LEE**  
 No. E16249  
 Exp. 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>

REVISOR: SL, CC, DATE: 10/05, 10/05, PROJECT ENGINEER: SUNG LEE, DEPARTMENT OF TRANSPORTATION: ITS DEVELOPMENT



**AS-BUILT**  
 Contract No. 116794  
 Resident Engineer: M. TOUTOUNCHIAN  
 Completion Date: 01/14/2010

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

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.









STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE  
 REVISIONS: DATE, REVISION BY, DATE REVIS, DATE REVIS

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

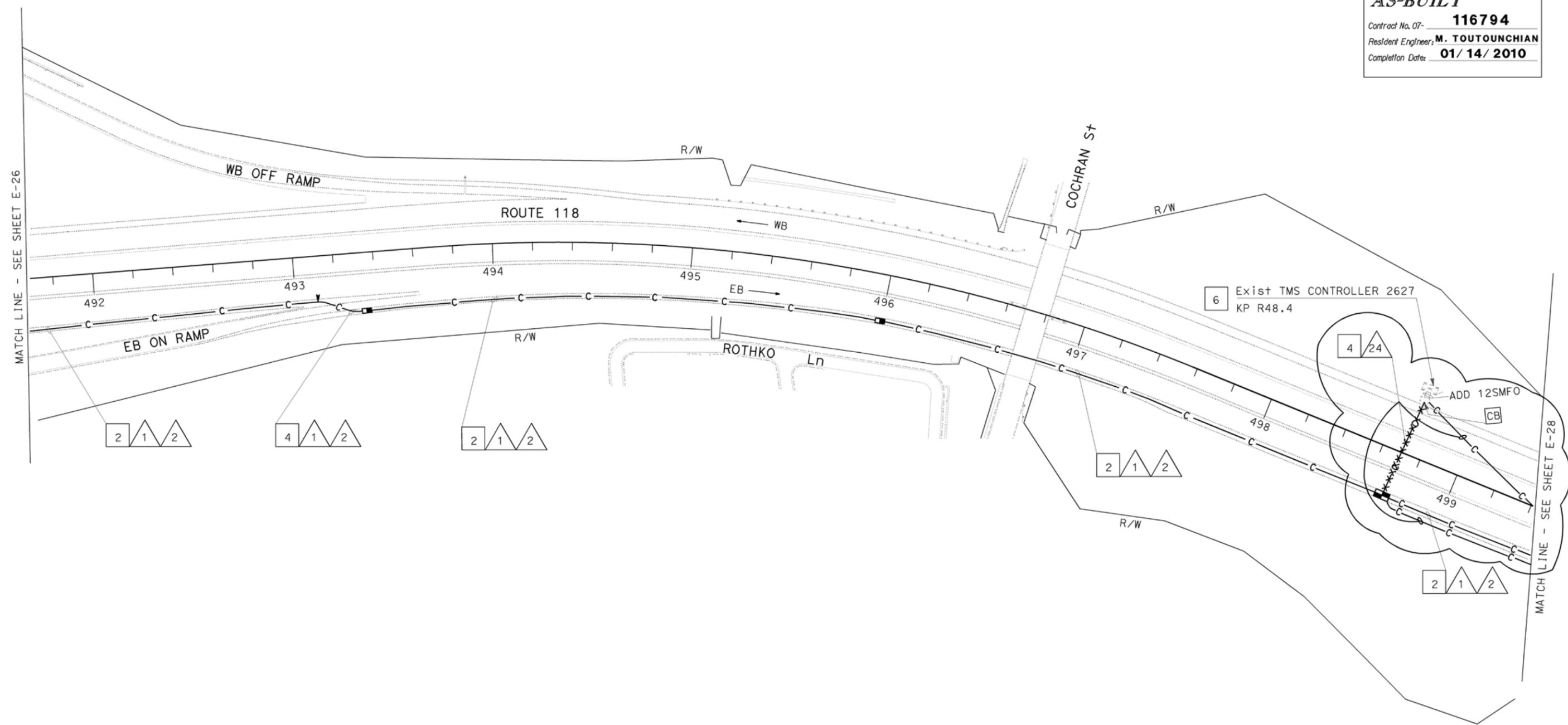
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN		
		1	2	24
48SMFO CABLE	DATA/VOICE	1		
36SMFO CABLE	VIDEO/VOICE		1	
48SMFO CABLE	VIDEO/DATA		1	
12SMFO CABLE	DATA/VOICE			1
INNERDUCT (SIZE 25)		1	1	1
CONDUIT SIZE		103	103	53



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven,LA	23,118	Var	400	667

REGISTERED ELECTRICAL ENGINEER  
 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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



USERNAME => s110796  
 DGN FILE => 711679uo027.dgn

CU 07388

EA 116791

LAST REVISION: 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.
- 12 ADD 2#1/0 IN EXISTING CONDUIT.
- 13 INSTALL 120/240 V, 3W, 2-100 A, METERED, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE AND FOUNDATION WITH:  
 METER 1:  
 2362 1/2 KEUHNER Dr  
 1-100 A, 240 V, 2 P MAIN CIRCUIT BREAKER  
 1-40 A, 120 V, 1 P CIRCUIT FOR CCTV  
~~1-40 A, 120 V, 1P CIRCUIT FOR TMS~~  
 METER 2:  
 2362 3/4 KEUHNER Dr  
 1-100 A, 240 V, 2 P MAIN CIRCUIT BREAKER  
 4-40 A, 120 V, 1P CIRCUIT BREAKER FOR CMS PANELS  
 1-40 A, 120 V, 1P CIRCUIT BREAKER FOR CMS CABINET
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.
- 25 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO LOCATION PLAN.
- 26 INSTALL 78C TYPE H SERVICE RISER ON POWER POLE. UTILITY COMPANY TO INSTALL CONDUCTORS.

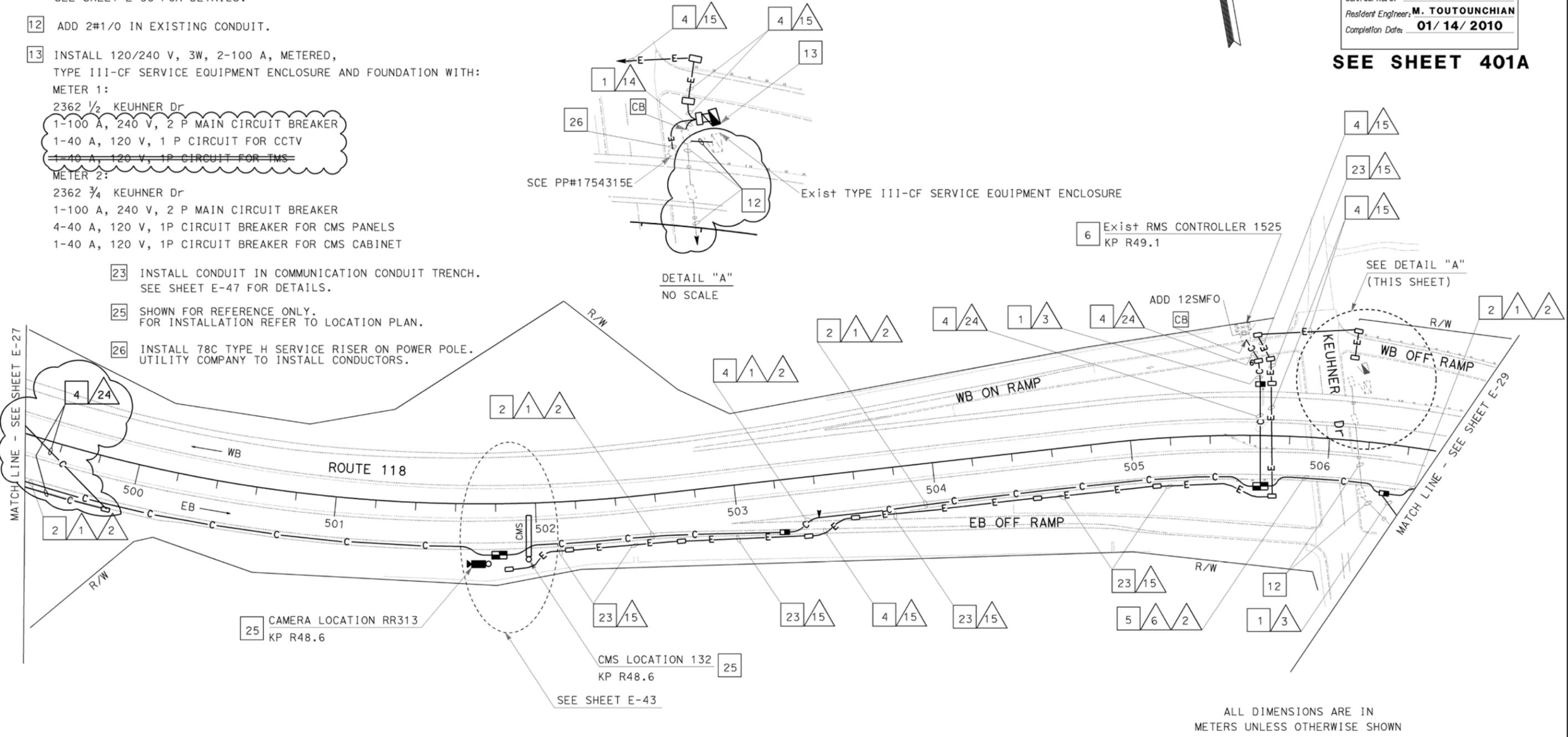
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN											
		1	2	3	6	4A	4B	4C	4D				
48SMFO CABLE	DATA/VOICE	1				1							
36SMFO CABLE	VIDEO/VOICE		1				1						
48SMFO CABLE	VIDEO/DATA			1			1						
12SMFO CABLE	DATA/VOICE				1			1					1
#4	POWER								2	4			
#1/0	POWER										12		
INNERDUCT (SIZE 25)		1	1	1	1	4	1	1	1	1			
CONDUIT SIZE		103		103	53	103			53	103	78		



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var	401	667

REGISTERED ELECTRICAL ENGINEER  
 Leesung Hwan 08-30-06  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp. 12/31/06  
 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.  
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**  
 Contract No. 07-116794  
 Resident Engineer: M. TOUTOUNCHIAN  
 Completion Date: 01/14/2010  
**SEE SHEET 401A**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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



USERNAME => s110796  
 DGN FILE => 711679uo028.dgn

CU 07388

EA 116791

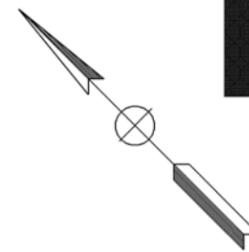
DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:45





DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven,LA	23,118	Var		403	667

Leesungkwon 08-30-06  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 PLANS APPROVAL DATE  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>



**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.
- 25 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO SITE DESIGN.

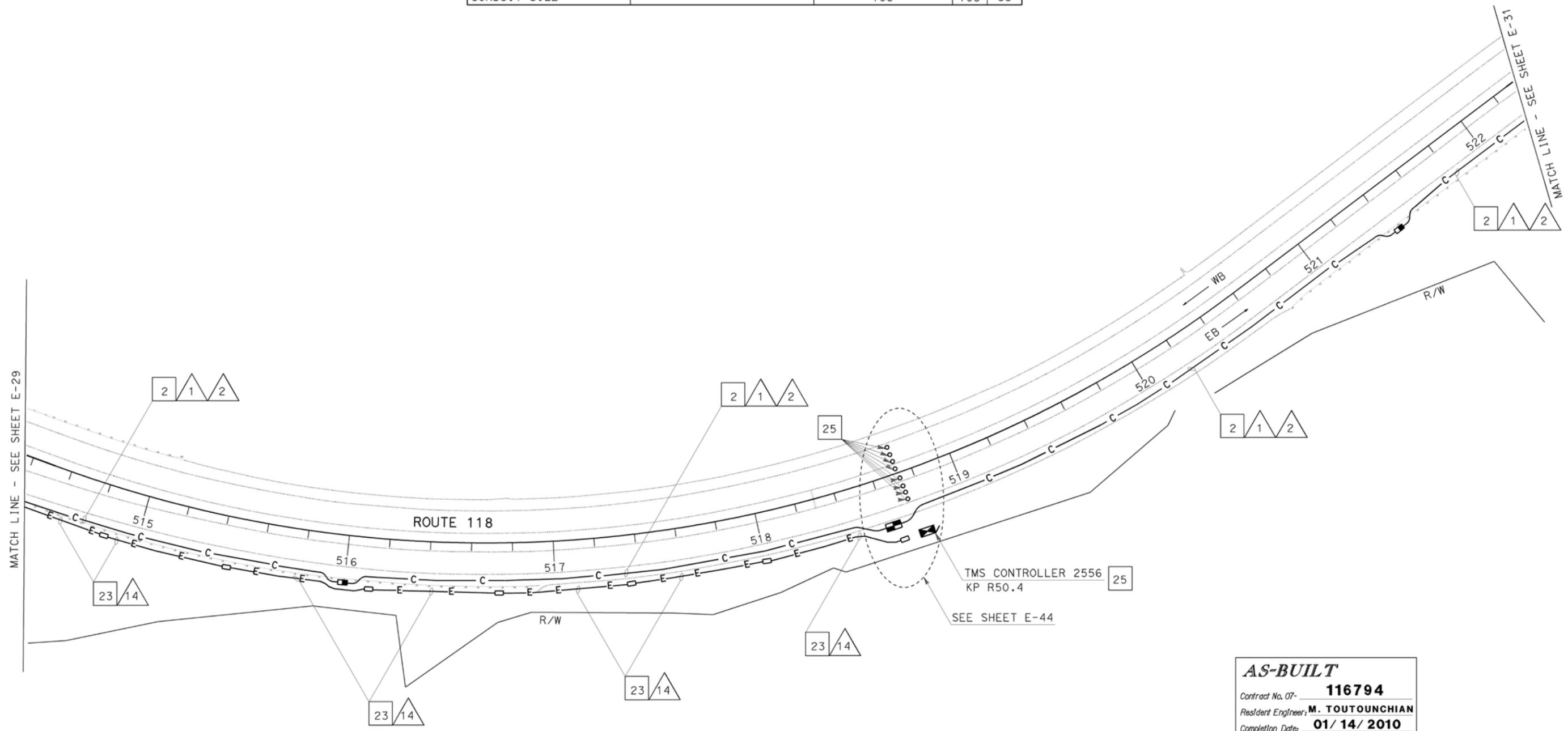
**CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)**

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
48SMFO CABLE	DATA/VOICE	1				
36SMFO CABLE	VIDEO/VOICE		1			
48SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	DATA/VOICE					
#1/0	POWER					2
INNERDUCT (SIZE 25)		1	1	1	1	4
CONDUIT SIZE		103			103	53

REVISOR

DATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**ITS DEVELOPMENT**  
 PROJECT ENGINEER  
 SUNG LEE



**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

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



USERNAME => s110796  
 DGN FILE => 711679uo030.dgn

CU 07388

EA 116791

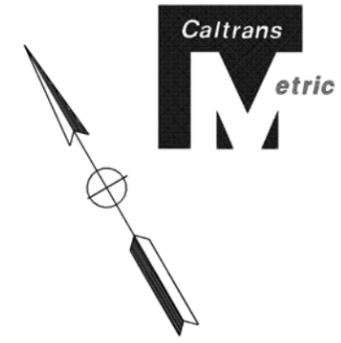
**E-30**

DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:46

CONSTRUCTION NOTES (THIS SHEET ONLY)

2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN			
		1	2	3	4
48SMFO CABLE	DATA/VOICE	1			
36SMFO CABLE	VIDEO/VOICE		1		
48SMFO CABLE	VIDEO/DATA			1	
12SMFO CABLE	DATA/VOICE				
INNERDUCT (SIZE 25)		1	1	1	4
CONDUIT SIZE		103			103



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST Var	SHEET No	TOTAL SHEETS
07	Ven,LA	23,118			404	667

REGISTERED ELECTRICAL ENGINEER  
*Leesungkwon* 08-30-06  
 REGISTERED ELECTRICAL ENGINEER

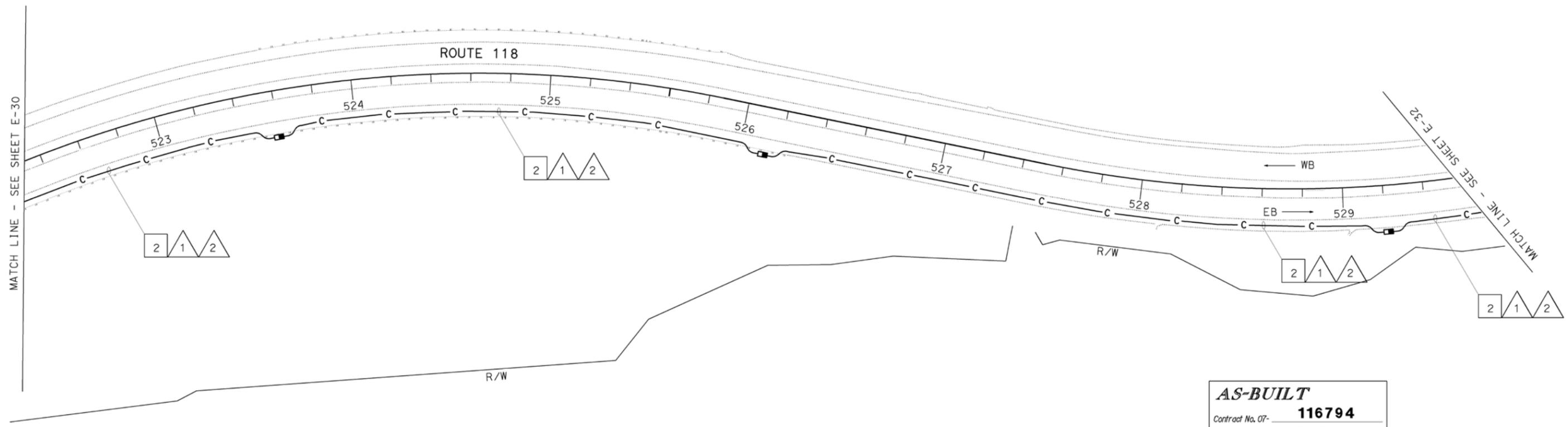
10-2-06  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 SUNG LEE  
 No. E16249  
 Exp 12/31/06  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER  
 SUNG LEE



**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN  
**COMMUNICATION SYSTEM ROUTING**  
 SCALE 1:1000

**E-31**

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



LAST REVISION  
 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:46

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 3 TRENCH AND INSTALL TYPE 1 CONDUIT, MINIMUM DEPTH OF 1200 mm. SEE SHEET E-48 FOR DETAILS.
- 6 INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
48SMFO CABLE	DATA/VOICE	1				
36SMFO CABLE	VIDEO/VOICE		1			
48SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	DATA/VOICE					1
INNERDUCT (SIZE 25)		1	1	1	1	4
CONDUIT SIZE		103			103	53



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var	405	667

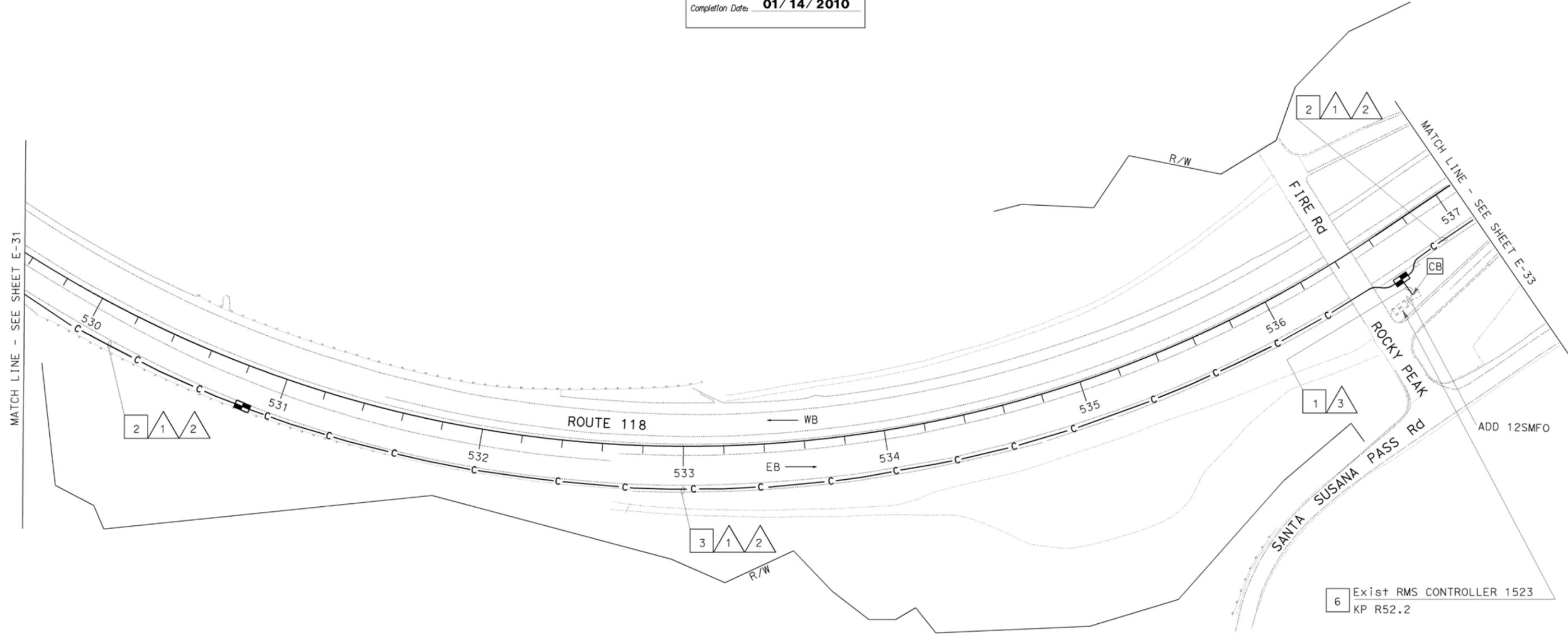
REGISTERED ELECTRICAL ENGINEER  
 07-14-03  
 10-2-06  
 PLANS APPROVAL DATE

**SUNG LEE**  
 No. E16249  
 Exp. 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

**E-32**

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



USERNAME => s110796  
 DGN FILE => 711679uo032.dgn

CU 07388

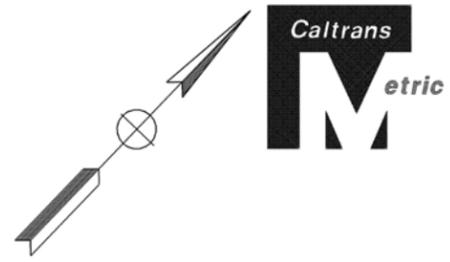
EA 116791

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE  
 REVISIONS: DATE, REVISION BY, DATE, REVISION BY, CALCULATED/DESIGNED BY, CHECKED BY

LAST REVISION: 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:46

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23,118	Var		406	667

Leersunghwan 08-30-06  
 REGISTERED ELECTRICAL ENGINEER  
 10-2-06  
 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>



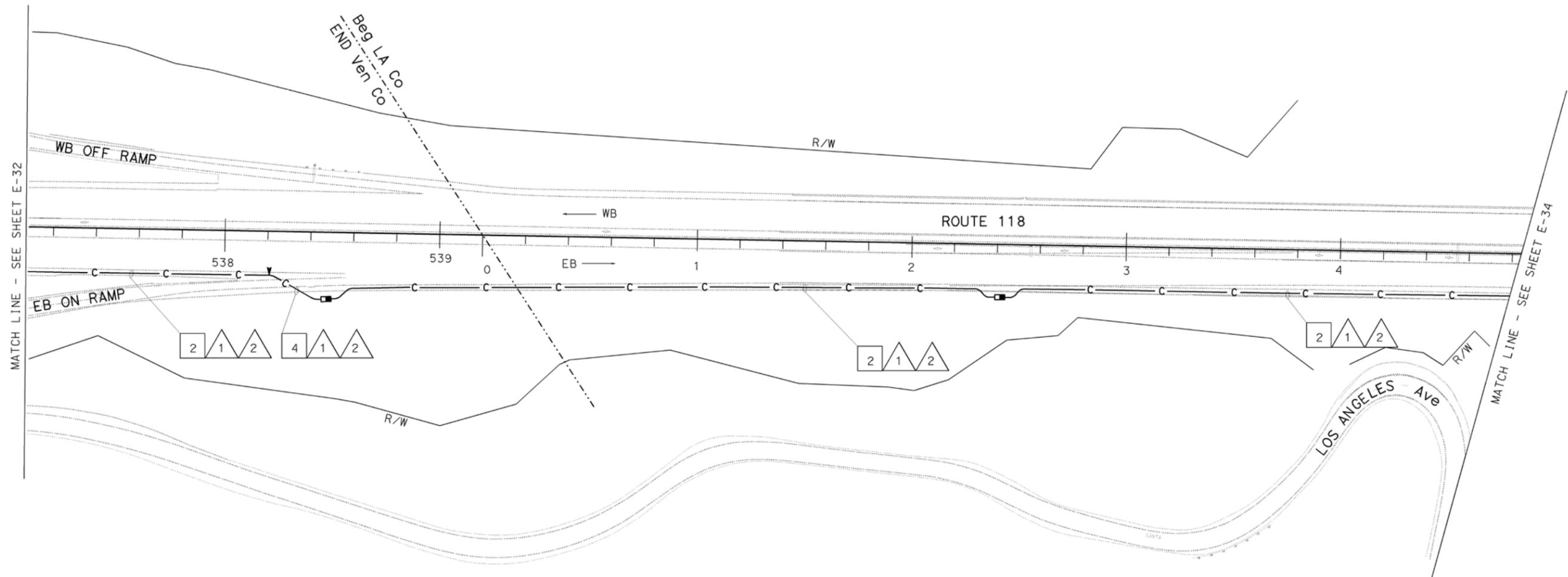
**CONSTRUCTION NOTES: (THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 4 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN			
		1	2	3	4
48SMFO CABLE	DATA/VOICE	1			
36SMFO CABLE	VIDEO/VOICE		1		
48SMFO CABLE	VIDEO/DATA			1	
12SMFO CABLE	DATA/VOICE				1
INNERDUCT (SIZE 25)		1	1	1	1
CONDUIT SIZE			103		103

**AS-BUILT**  
 Contract No. 07- **116794**  
 Resident Engineer: **M. TOUTOUNCHIAN**  
 Completion Date: **01/14/2010**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 PROJECT ENGINEER  
 SUNG LEE  
 REVISIONS:  
 DATE REVISIONED BY DATE REVISOR  
 DATE CALCULATED/DESIGNED BY CHECKED BY



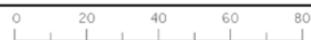
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.  
 FOR LEGEND AND GENERAL NOTES SEE SHEET E-1.  
 ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SHOWN.

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

**E-33**

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS



USERNAME => s110796  
 DGN FILE => 711679ua033.dgn

CU 07388

EA 116791

LAST REVISION  
 00-00-00  
 DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:46

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ITS DEVELOPMENT  
 PROJECT ENGINEER: SUNG LEE  
 CALCULATED/DESIGNED BY: [ ] CHECKED BY: [ ]  
 DATE REVISED BY: [ ] DATE REVISED: [ ]

**CONSTRUCTION NOTES:(THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.
- 25 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO SITE DESIGN.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
48SMFO CABLE	DATA/VOICE	1				
36SMFO CABLE	VIDEO/VOICE		1			
48SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	DATA/VOICE					
#1/0	POWER					2
INNERDUCT (SIZE 25)		1	1	1	1	4
CONDUIT SIZE			103		103	53



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	Ven,LA	23,118		Var	407	667

Leesunghwan 08-30-06  
 REGISTERED ELECTRICAL ENGINEER

10-2-06  
 PLANS APPROVAL DATE

SUNG LEE  
 No. E16249  
 Exp. 12/31/06  
 REGISTERED PROFESSIONAL ENGINEER  
 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.

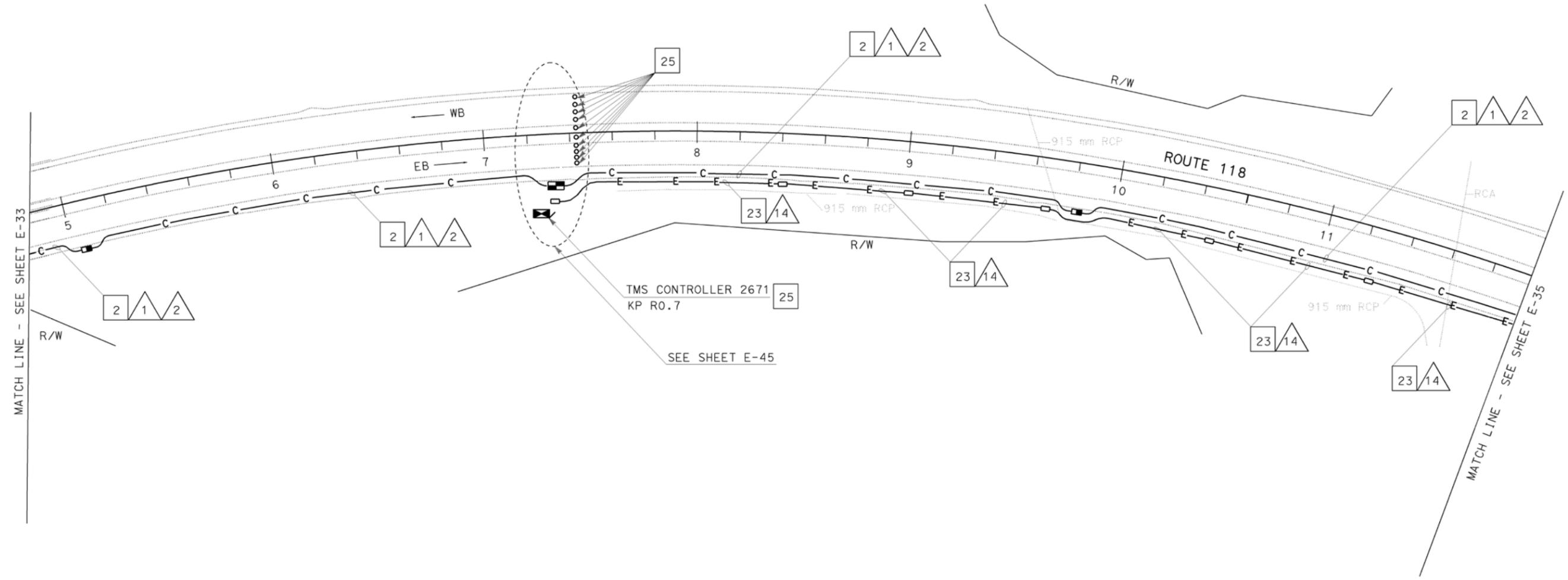
To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**

Contract No. 07- **116794**

Resident Engineer: **M. TOUTOUNCHIAN**

Completion Date: **01/14/2010**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

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



USERNAME => s110796  
 DGN FILE => 711679ua034.dgn

CU 07388

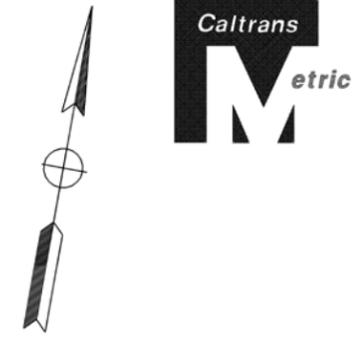
EA 116791

DATE PLOTTED => 29-JUN-2010  
 TIME PLOTTED => 09:46

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 2 TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. SEE BRIDGE STRUCTURE PLANS FOR CONDUIT INSTALLATION TYPE AND DETAIL.
- 12 ADD 2#1/0 IN EXISTING CONDUIT.
- 14 Exist TYPE III-BF SERVICE EQUIPMENT ENCLOSURE 120/240 V, 1 PHASE, 3 W  
11159 1/2 IVERSON Rd  
1-30 A, FOR DATA NODE TO REMAIN  
1-20 A, FOR TMS TO REMAIN  
1-20 A, FOR HAR TO REMAIN  
ADD 1-30A FOR TMS
- 23 INSTALL CONDUIT IN COMMUNICATION CONDUIT TRENCH. SEE SHEET E-47 FOR DETAILS.
- 27 COIL 20 m OF 36SMFO CABLE AND 48SMFO CABLE IN SPLICE VAULT. SPLICE THE OTHER 48SMFO CABLE (TRUNK CABLE) WITH EXISTING 24SMFO CABLE.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
48SMFO CABLE	DATA/VOICE	1				
36SMFO CABLE	VIDEO/VOICE		1			
48SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	DATA/VOICE					
#1/0	POWER					2
INNERDUCT (SIZE 25)		1	1	1	1	4
CONDUIT SIZE				103		103 53



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven, LA	23, 118	Var	408	667

*Leesunghuan* 08-30-06  
 REGISTERED ELECTRICAL ENGINEER

10-2-06  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**SUNG LEE**  
 No. E16249  
 Exp 12/31/06  
 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 the Caltrans web site, go to: <http://www.dot.ca.gov>

**AS-BUILT**

Contract No. 07- **116794**

Resident Engineer: **M. TOUTOUNCHIAN**

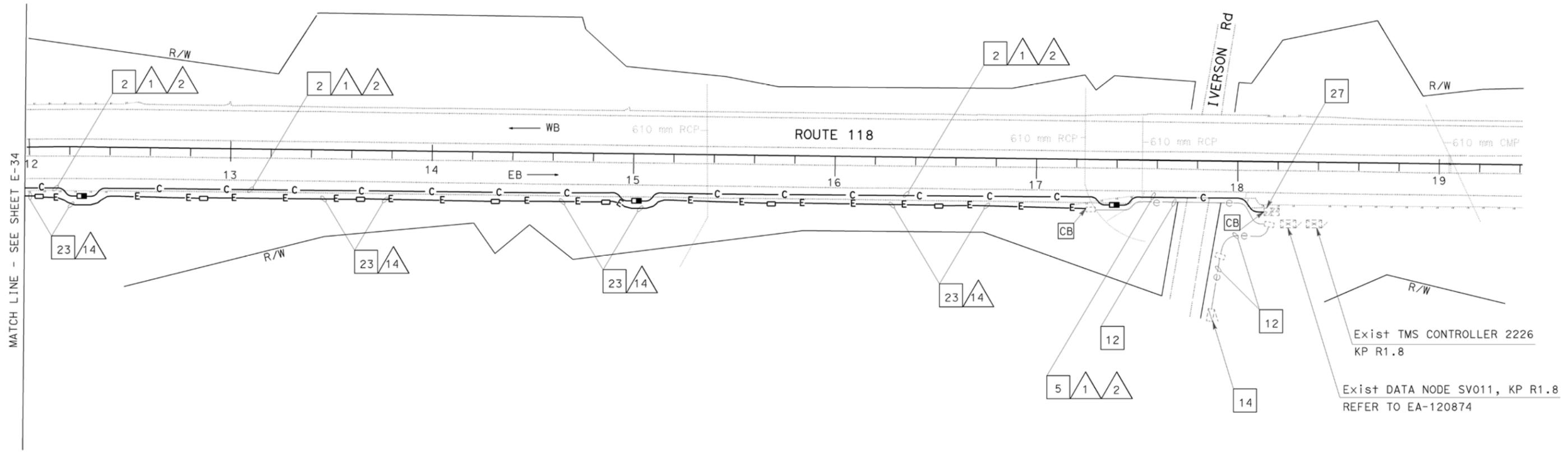
Completion Date: **01/14/2010**

DATE REVISION BY DATE REVISION

CALCULATED/DESIGNED BY CHECKED BY

PROJECT ENGINEER

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



MATCH LINE - SEE SHEET E-34

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**COMMUNICATION SYSTEM ROUTING**

SCALE 1:1000

**E-35**

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



*California Department of Transportation  
Division of Maintenance*

*Structure Maintenance and Investigations*

---

**B**<sub>RIDGE</sub>

**I**<sub>NSPECTION</sub>

**R**<sub>ECORDS</sub>

**I**<sub>NFORMATION</sub>

**S**<sub>YSTEM</sub>

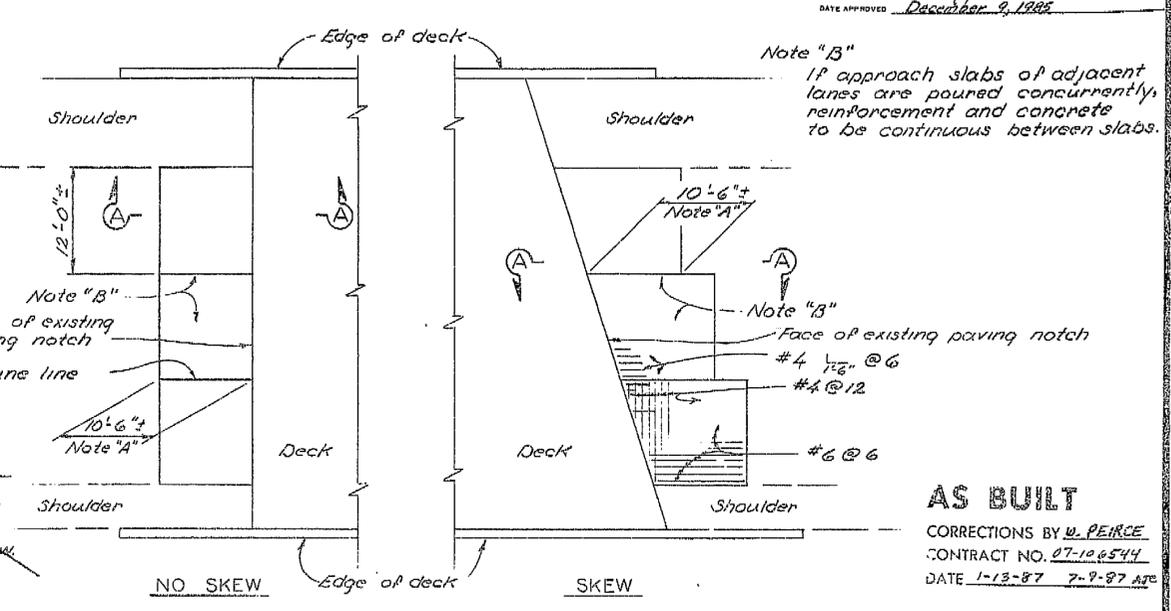
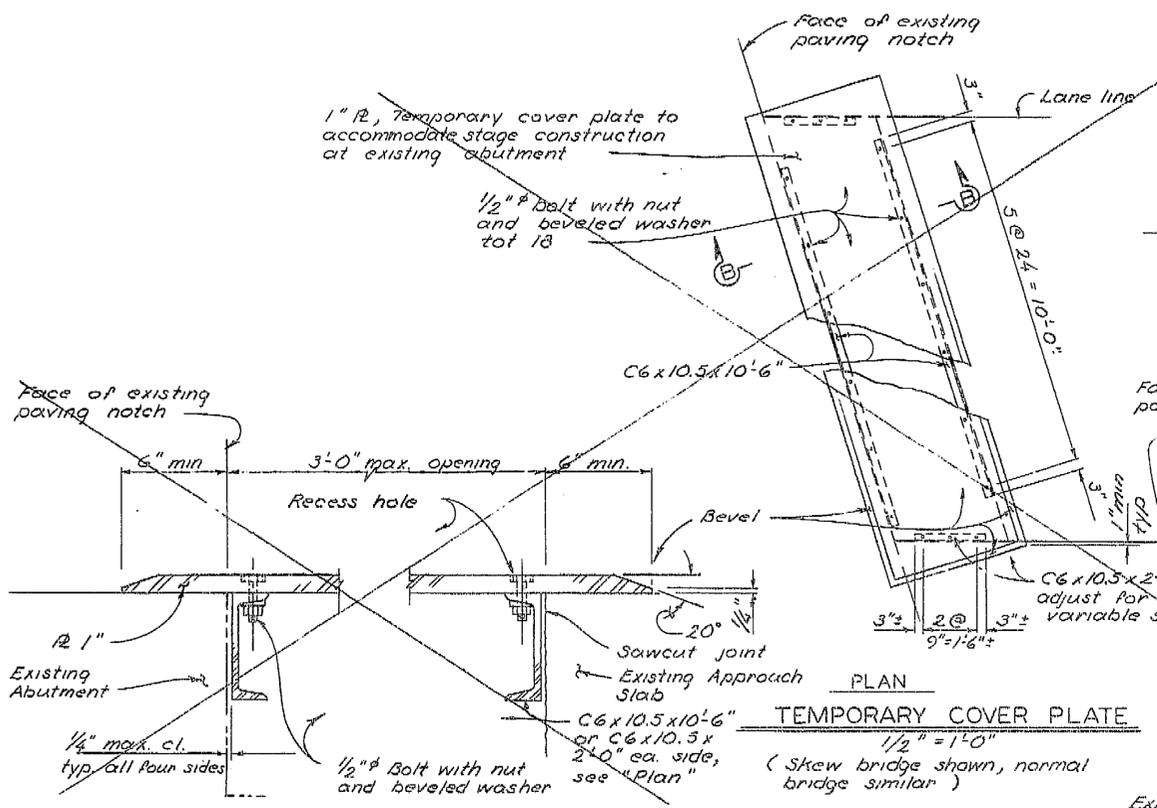
---

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

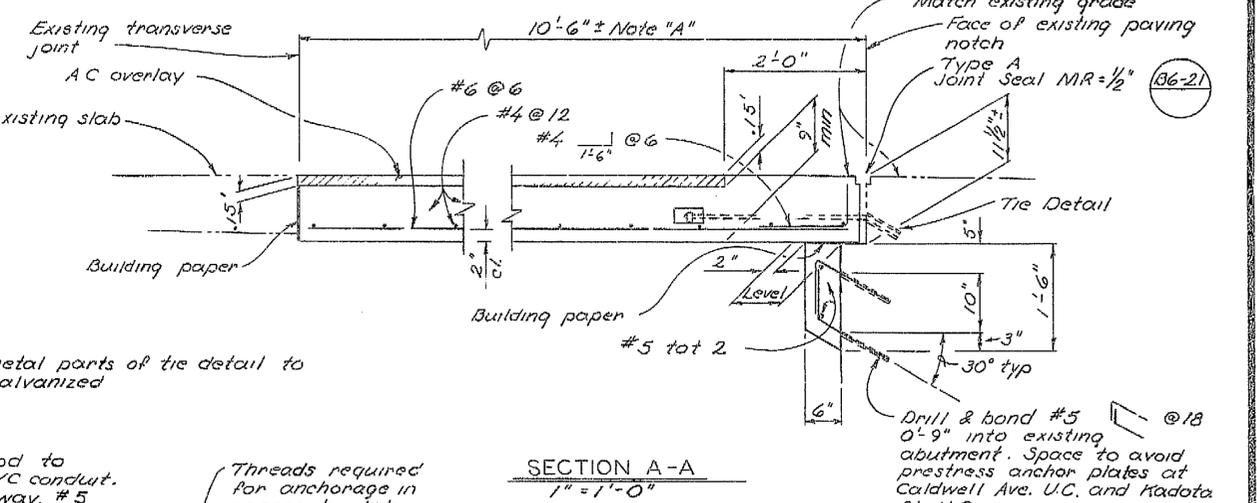
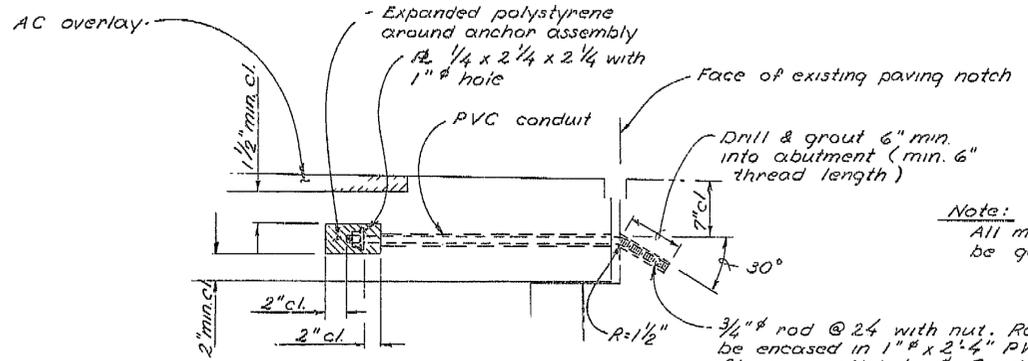
Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	93	118	1823.713326/100000	30	178
DESIGN ENGINEER			REGISTERED CIVIL ENGINEER NUMBER		
George S. Young			C12078		
DATE APPROVED			December 9, 1985		



**AS BUILT**  
 CORRECTIONS BY W. PEIRCE  
 CONTRACT NO. 07-106544  
 DATE 1-13-87 7-9-87 A/E

**SECTION B-B**  
 3" = 1'-0"



**Note:**  
 All metal parts of tie detail to be galvanized

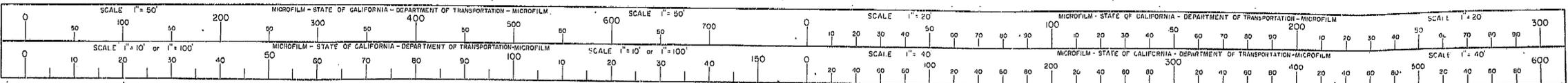
**TIE DETAIL**  
 1/2" = 1'-0"

**SECTION A-A**  
 1" = 1'-0"

**SPECIAL DETAILS**  
 APPROACH SLAB REHABILITATION

DESIGN	By P. McCouley	Checked <u>Shirley</u>	State of CALIFORNIA	STRUCTURES - DESIGN 10	BRIDGE NO. Various
DETAILS	By Vern R. Groth 9/85	Checked <u>Shirley</u>	DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER <u>George S. Young</u> 362872	POST MILE
QUANTITIES					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			CU 07	WO 106540	DISREGARD PRINT BEARING OFFICE REVISION DATES
			VARIABLES		
			REVISION DATES (PRELIMINARY STAGE ONLY)		
			SHEET 30		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.  
 DATE 9-14-87 SIGNATURE Donald [Signature] TITLE Microfilm Services



30