

INFORMATION HANDOUT

For Contract No. 07-2W8804

At 07-LA,Ven-23,27,33,150-PM Various

Identified by

Project ID 0714000290

As-Builts

Fiber Optic System As-Built Drawings

CCTV, Loop Detector and Communication System Routing



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		565	849

Jacqueline C Tan 7-14-03
REGISTERED ELECTRICAL ENGINEER

8-22-05
PLANS APPROVAL DATE

JACQUELINE C. TAN
No. E015611
Exp. 12/31/05
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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

GENERAL NOTES:

- 1- FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.
- 2- ALL CONDUIT CONTAINING FIBER OPTIC CABLE SHALL ENTER PULL BOXES ON THE SHORT SIDE ONLY. PULL BOXES SHALL NOT BE USED TO CHANGE THE ALIGNMENT OF COMMUNICATION CONDUIT.
- 3- ALL PULL BOXES AND SPLICE VAULTS SHALL BE INSTALLED IN THE UNPAVED AREA IMMEDIATELY ADJACENT TO THE PAVED SHOULDER OR BEHIND MBGR. CONDUIT SHALL BE DIRECTED FROM THE SHOULDER TO THE BOXES WITH 22 1/2 DEGREE BENDS.
- 4- CONDUITS INSTALLED IN THE PAVEMENT SHALL MAINTAIN 1.2 m MINIMUM DISTANCE FROM EDGE OF TRAVELED WAY UNLESS OTHERWISE NOTED.
- 5- DURING CONSTRUCTION PHASE, IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO PREVENT ANY DAMAGE TO THE EXISTING ELECTRICAL AND COMMUNICATION CABINETS NOT PART OF THIS CONTRACT. IN THE EVENT ANY OF THEM ARE INADVERTENTLY DAMAGED, IT MUST BE REPAIRED OR REPLACED WITHOUT INCURRING ADDITIONAL COSTS OR PROJECT DELAY.
- 6- THE LOCATION OF EXISTING UNDERGROUND FACILITIES, EXISTING CONTROLLER CABINETS, EXISTING SERVICE ENCLOSURES, POWER POLES ARE APPROXIMATE AND WERE OBTAINED FROM AS-BUILT DRAWINGS. CONTRACTOR SHALL ACCURATELY DETERMINE THE EXACT LOCATION OF ALL U/G FACILITIES PRIOR TO EXCAVATION. HAND TRENCHING MAY BE REQUIRED IF CONTRACTOR FAILS THESE INSTRUCTIONS.
- 7- ALL CONDUITS SHALL BE INSTALLED IN THE SHOULDER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 8- THE CONTRACTOR SHALL VERIFY PROPOSED CCTV POLE LOCATIONS WITH THE ENGINEER PRIOR TO PLACEMENT OF FOUNDATIONS.
- 9- INSTALL CONTROLLER CABINETS AT A MINIMUM OF 12 m FROM THE EDGE OF TRAVELED WAY.

AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING
(LEGEND AND NOTES)
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISIONS BY: HKA
 DATE REVISIONS BY: JT
 CALCULATED/DESIGNED BY: HKA
 CHECKED BY: JT

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUIT IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 INSTALL 4-78C CONDUITS INSIDE BRIDGE BARRIER. SEE STRUCTURAL PLANS FOR DETAILS.
- 3 COIL 200 m OF EACH OF THE FIBER OPTIC CABLES IN THE SPLICE VAULT AND CAP ENDS OF CABLES.
- 4 TERMINATE 1-78C (MT) IN THIS PULL BOX (5T).
- 5 FOR UNDERGROUND TRANSITION DETAIL FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.

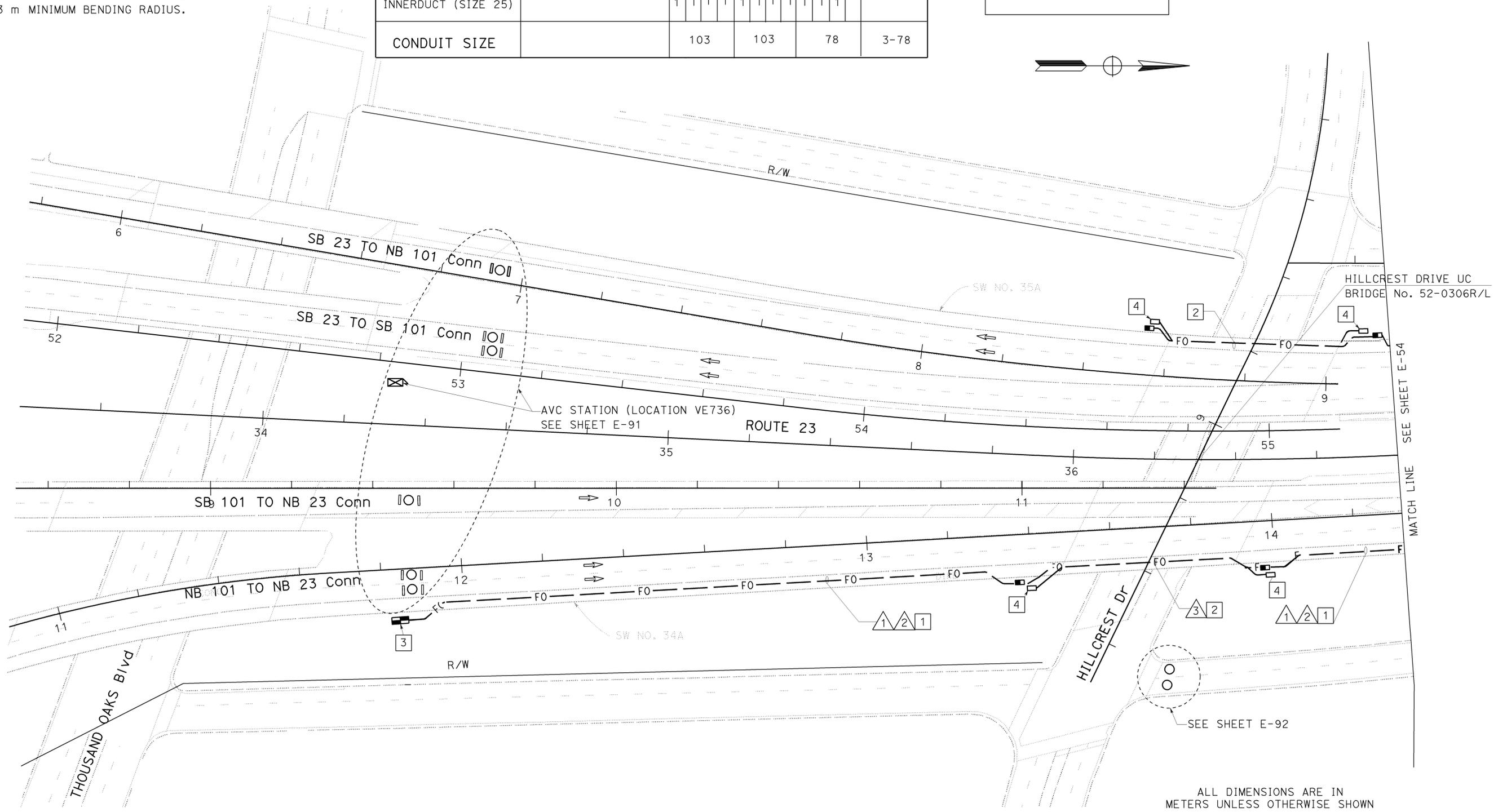
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)									
CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1		2		3			
72SMFO CABLE	DATA	1				1			
72SMFO CABLE	VIDEO / DISTRIBUTION	1				1			
48SMFO CABLE	TRUNK LINE		1				1		
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103		103		78		3-78	



AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	566	849

REGISTERED ELECTRICAL ENGINEER
 7-14-03
 8-22-05
 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA
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COMMUNICATION SYSTEM ROUTING

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

SCALE 1:500

E-53

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

USERNAME => S110796
 DGN FILE => 711545ua053.dgn

CU 07388

EA 115451

LAST REVISION
 00-00-00 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 09:54

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY: _____
 DATE REVISED: _____
 CALCULATED/DESIGNED BY: _____
 CHECKED BY: _____

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL 2-103C IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

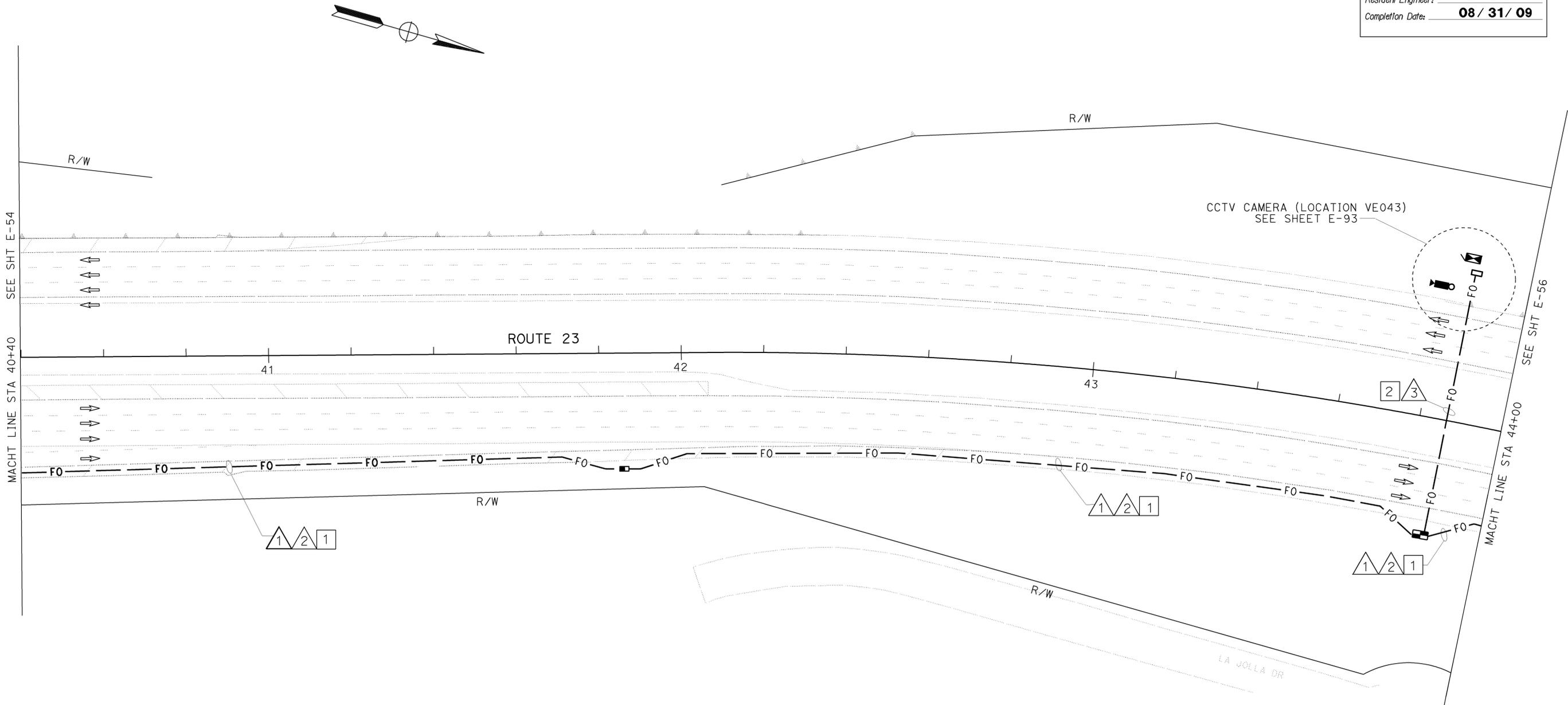
CONDUIT/ CONDUCTOR	FUNCTION	RUN														
		1	2	3	1	2	3	1	2	3						
72SMFO CABLE	DATA	1														
72SMFO CABLE	VIDEO / DISTRIBUTION	1														
48SMFO CABLE	TRUNK LINE		1													
12SMFO CABLE	VIDEO/DATA													2		
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1	1	1	1	1			
CONDUIT SIZE		103			103			2-78								



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		568	849

Jacqueline C. Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE
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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500

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FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA JT
 DATE REVISED BY: HKA
 DATE REVISED BY: JT

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL 2-103C IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK 2-103C BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 INSTALL 2-103C INSIDE NEW BRIDGE GIRDER (NB AND SB). SEE STRUCTURAL PLANS FOR DETAILS.
- 4 FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.

CONDUIT AND CONDUCTOR SCHEDULE THIS SHEET ONLY

CONDUIT / CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



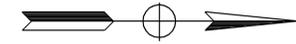
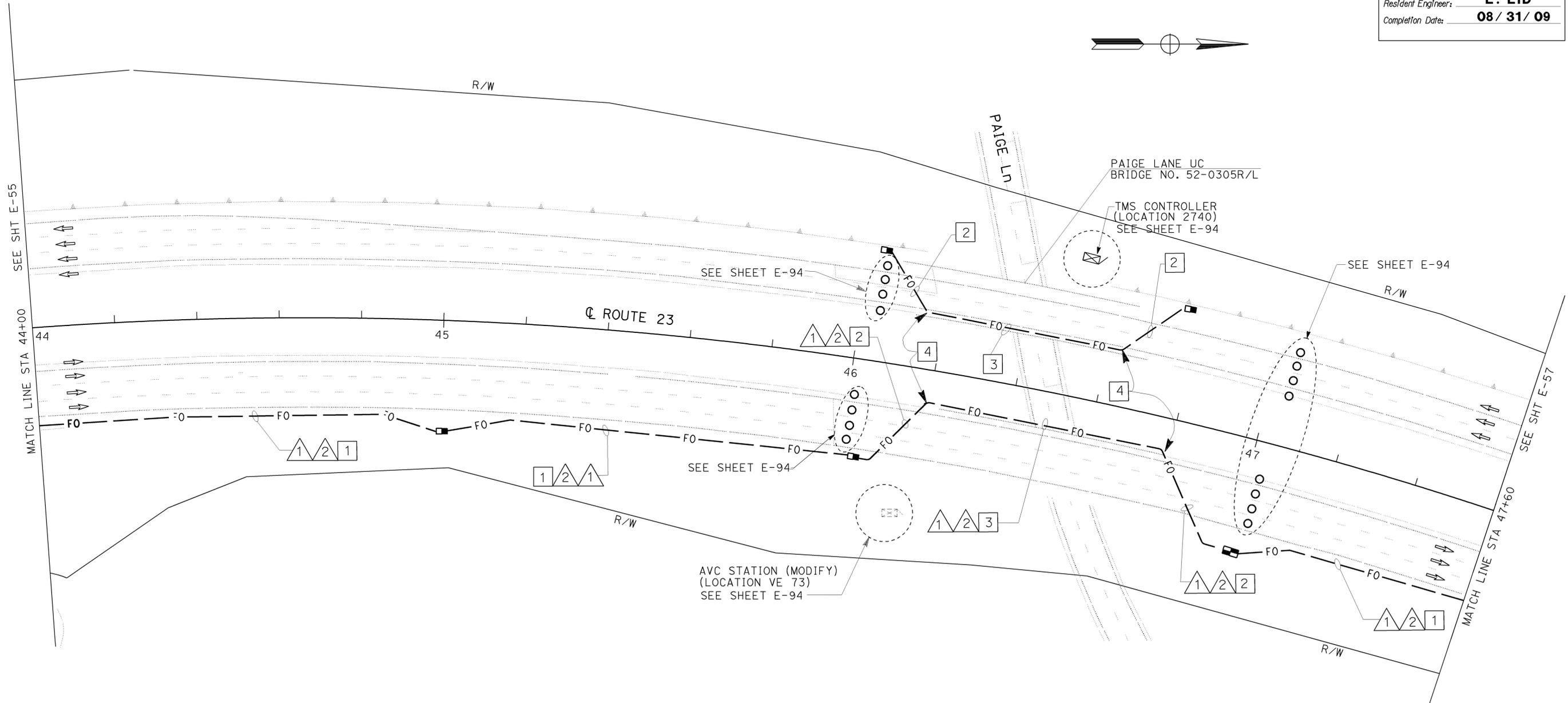
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		569	849

REGISTERED ELECTRICAL ENGINEER
 7-14-03
 8-22-05
 PLANS APPROVAL DATE

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
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COMMUNICATION SYSTEM ROUTING

SCALE 1:500

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USERNAME => S110796
 DGN FILE => 711545ua056.dgn

CU 07388

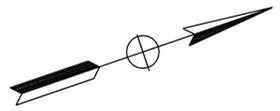
EA 115451

DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 09:55

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY: _____
 DATE REVISED: _____
 CALCULATED/DESIGNED BY: _____
 CHECKED BY: _____

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL 2-103C IN ASPHALT. SEE SHEET E-127 FOR DETAILS.



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		570	849

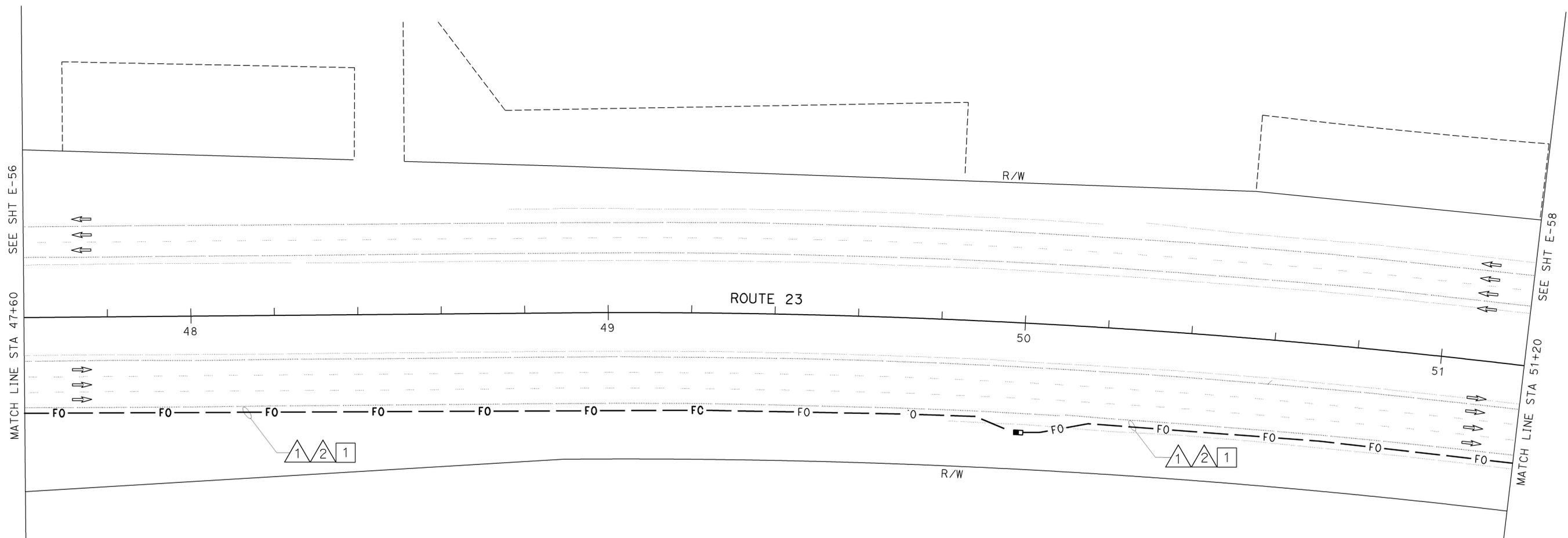
8-22-05
PLANS APPROVAL DATE

Jacqueline C. Tan 7-14-03
REGISTERED ELECTRICAL ENGINEER

JACQUELINE C. TAN
No. E015611
Exp. 12/31/05
ELECTRICAL
STATE OF CALIFORNIA

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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500
E-57

LAST REVISION: 00-00-00 DATE PLOTTED => 22-APR-2010 TIME PLOTTED => 10:07

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Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE
 REVISED BY
 DATE REVISED

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL 2-103C IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	VOICE / DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		571	849

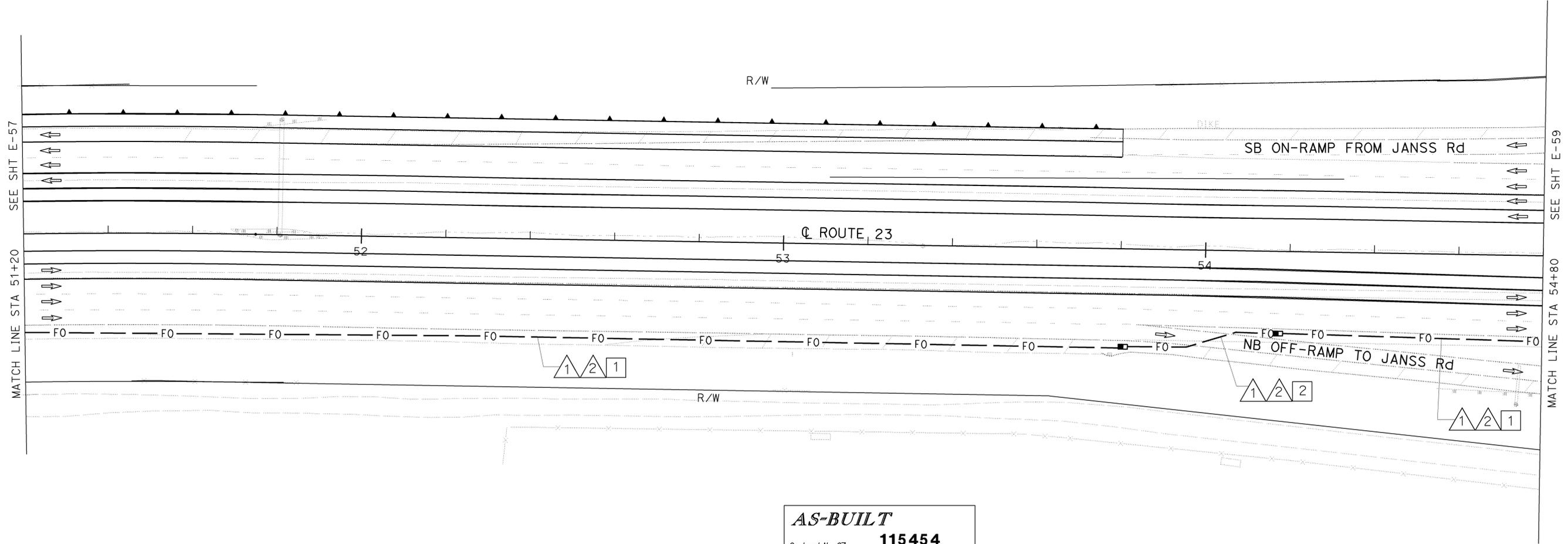
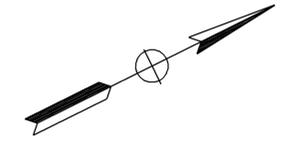
8-22-05
 PLANS APPROVAL DATE

Jacqueline Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-58

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



LAST REVISION
 00-00-00 DATE PLOTTED => 22-APR-2010 TIME PLOTTED => 09:56

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA JT
 DATE REVISED BY: DATE REVISED
 CALCULATED/DESIGNED BY: CHECKED BY:

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION	1							
48SMFO CABLE	TRUNK LINE		1						
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

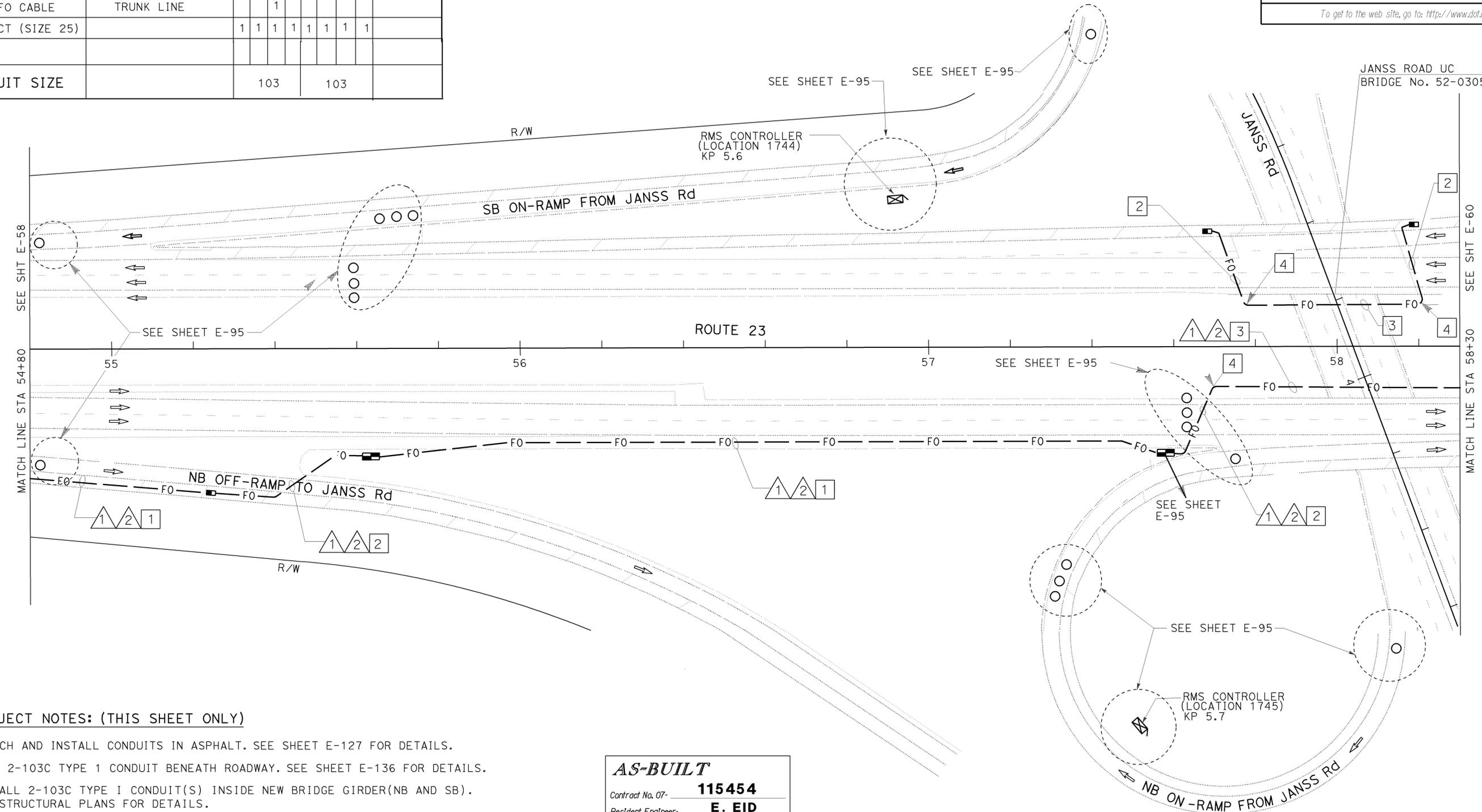


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	572	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL
 STATE OF CALIFORNIA

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- PROJECT NOTES: (THIS SHEET ONLY)**
- TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
 - JACK 2-103C TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
 - INSTALL 2-103C TYPE I CONDUIT(S) INSIDE NEW BRIDGE GIRDER(NB AND SB). SEE STRUCTURAL PLANS FOR DETAILS.
 - FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500
E-59

LAST REVISION: 00-00-00 DATE PLOTTED => 22-APR-2010 TIME PLOTTED => 09:56

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)								
CONDUIT/CONDUCTOR	FUNCTION	RUN						
		1	2	3	4	5	6	7
72SMFO CABLE	DATA	1						
72SMFO CABLE	VIDEO / DISTRIBUTION		1					
48SMFO CABLE	TRUNK LINE			1				
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1
CONDUIT SIZE		103			103			

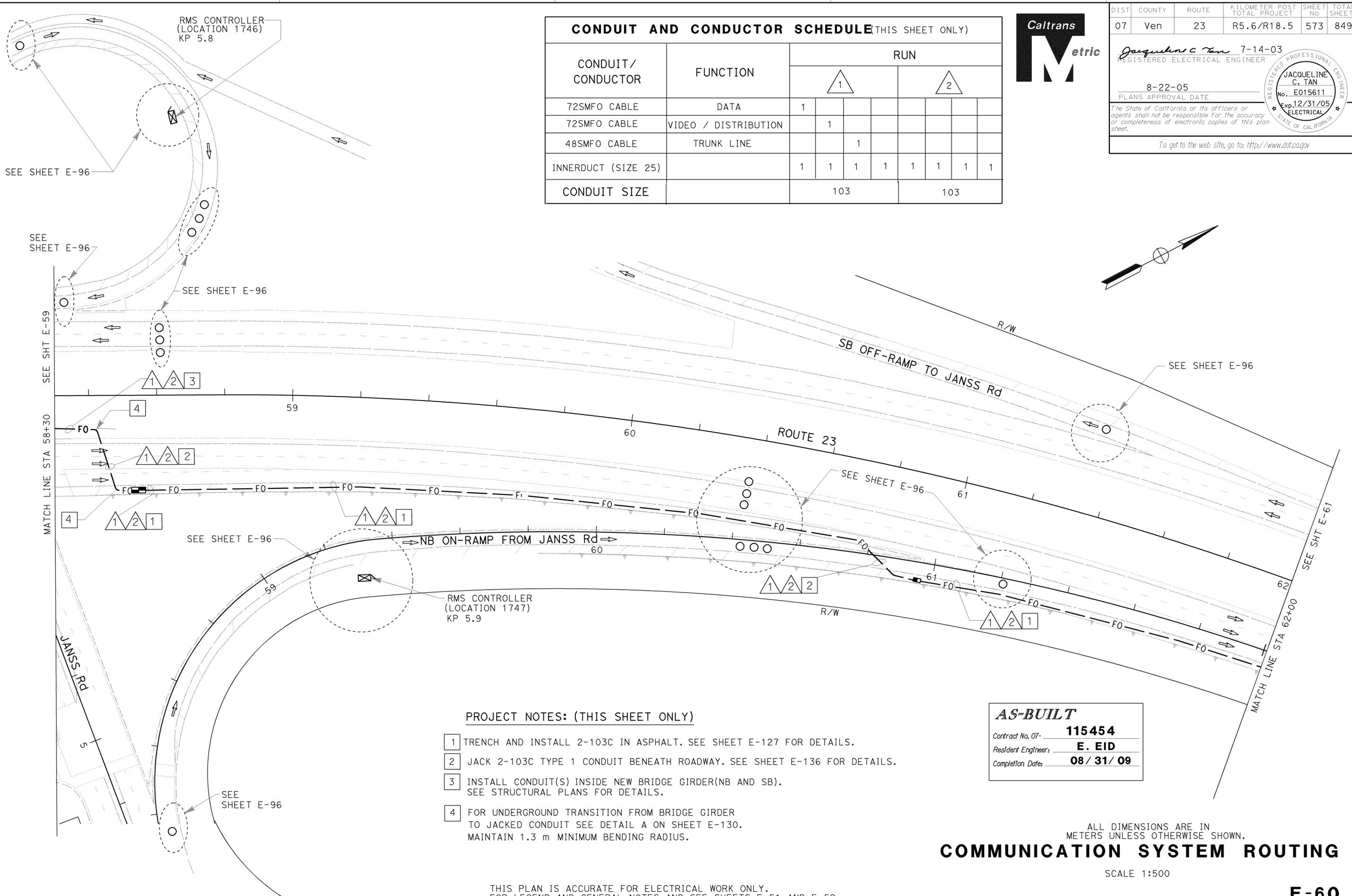


DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		573	849

REGISTERED ELECTRICAL ENGINEER
 7-14-03
 8-22-05
 PLANS APPROVAL DATE

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL 2-103C IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK 2-103C TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 INSTALL CONDUIT(S) INSIDE NEW BRIDGE GIRDER(NB AND SB). SEE STRUCTURAL PLANS FOR DETAILS.
- 4 FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.

AS-BUILT

Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-60

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



USERNAME => S110796
 DGN FILE => 711545u0060.dgn

CU 07388

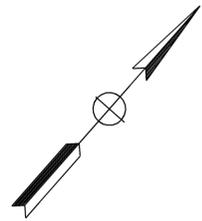
EA 115451

DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 09:56

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUIT IN ASPHALT. SEE SHEET E-127 FOR DETAILS.



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



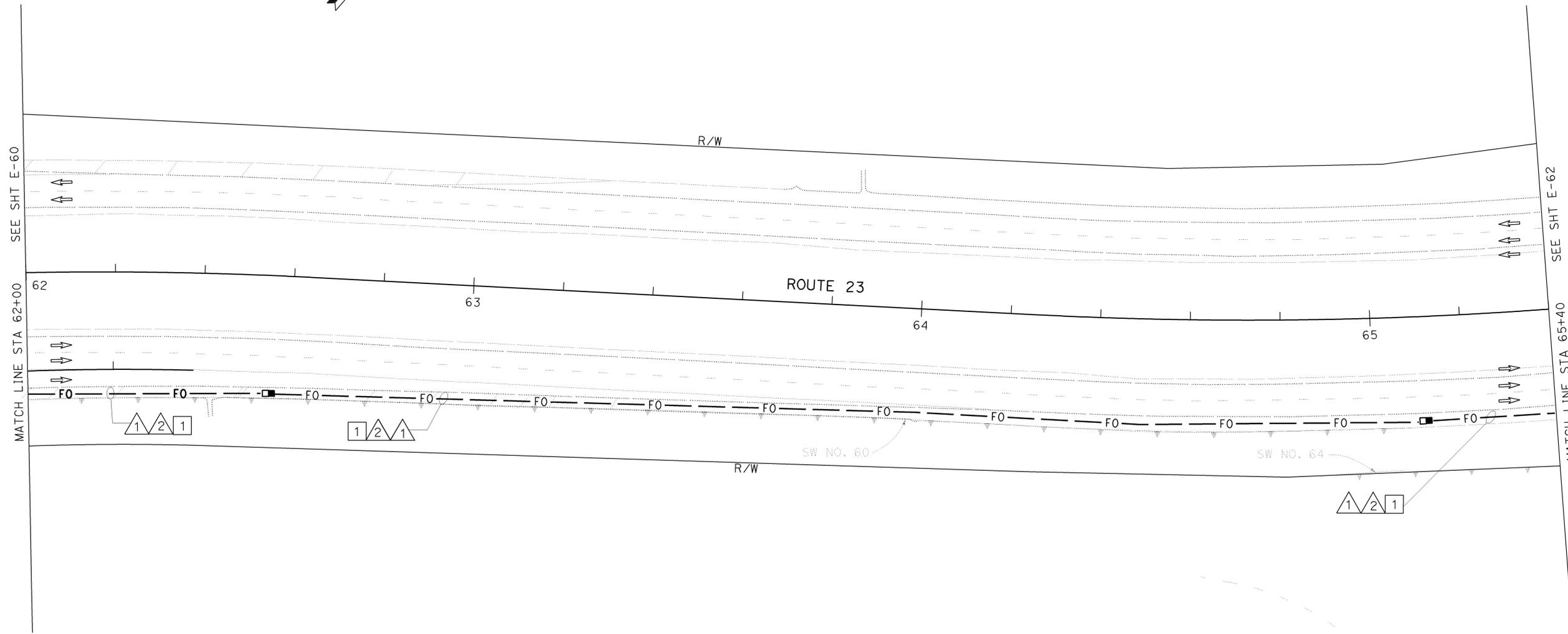
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		574	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

8-22-05
 APPROVAL DATE

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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

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

SCALE 1:500

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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



E-61

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA JT
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE REVISED BY
 DATE REVISED

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUIT IN ASPHALT. SEE SHEET E-127 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT / CONDUCTOR	FUNCTION	RUN		
		1	2	3
72SMFO CABLE	DATA	1		
72SMFO CABLE	VIDEO / DISTRIBUTION	1		
48SMFO CABLE	TRUNK LINE		1	
INNERDUCT (SIZE 25)		1	1	1
CONDUCTOR (No.4)	TMS POWER			2
CONDUIT SIZE		103	103	78



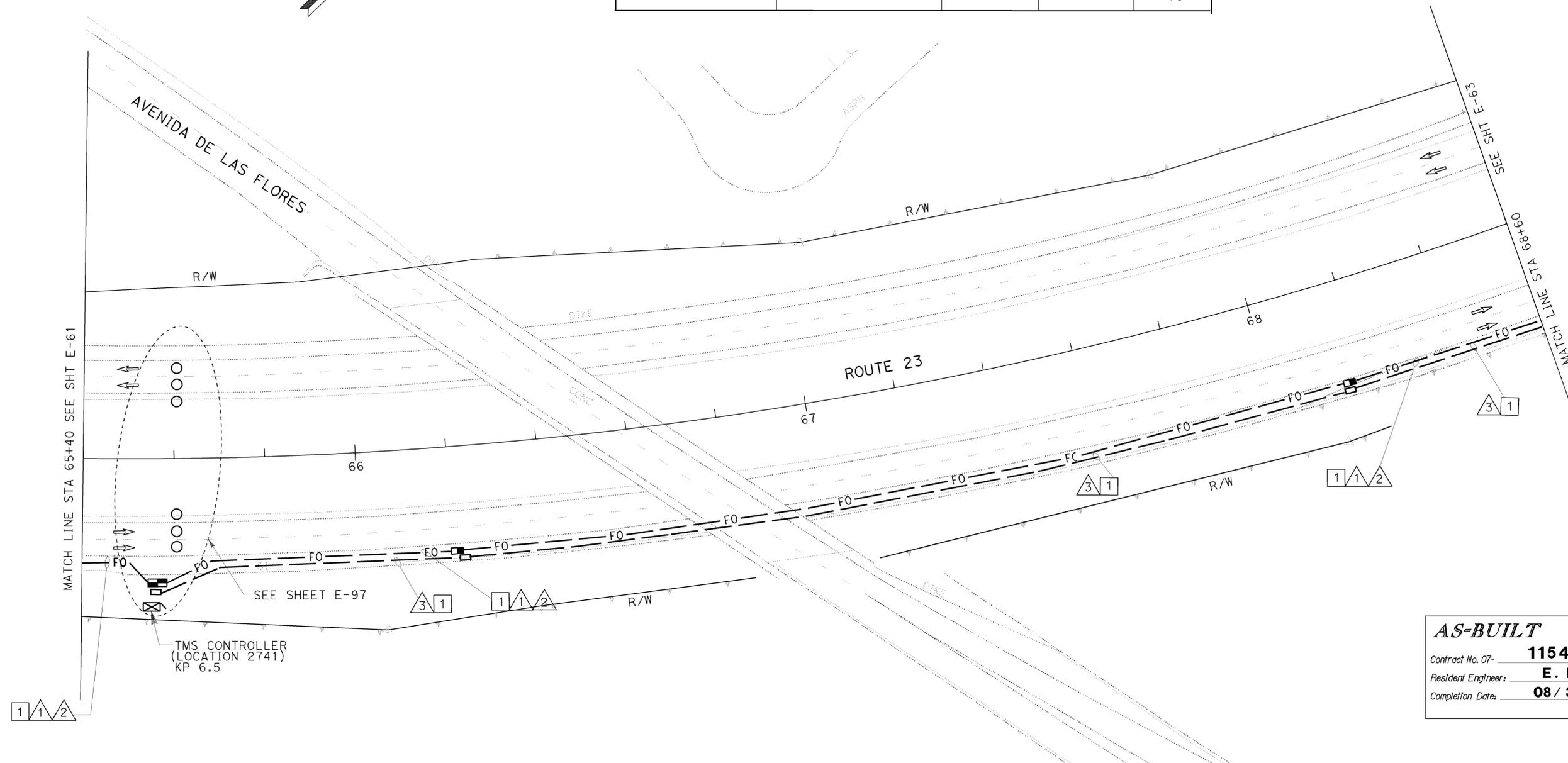
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		575	849

7-14-03
 REGISTERED CIVIL ENGINEER
 8-22-05
 PLANS APPROVAL DATE

Jacqueline C. Tan
 REGISTERED PROFESSIONAL ENGINEER
 No. E015611
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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500
E-62

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



LAST REVISION
 00-00-00 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 09:57

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUIT IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

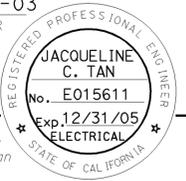
CONDUIT/ CONDUCTOR	FUNCTION	RUN			
		1	2	3	4
72SMFO CABLE	DATA	1			
72SMFO CABLE	VIDEO / DISTRIBUTION	1			
48SMFO CABLE	TRUNK LINE		1		
CONDUCTOR (No.4)	TMS POWER			2	4
INNERDUCT (SIZE 25)		1	1	1	1
CONDUIT SIZE		103	103	78	78



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	576	849

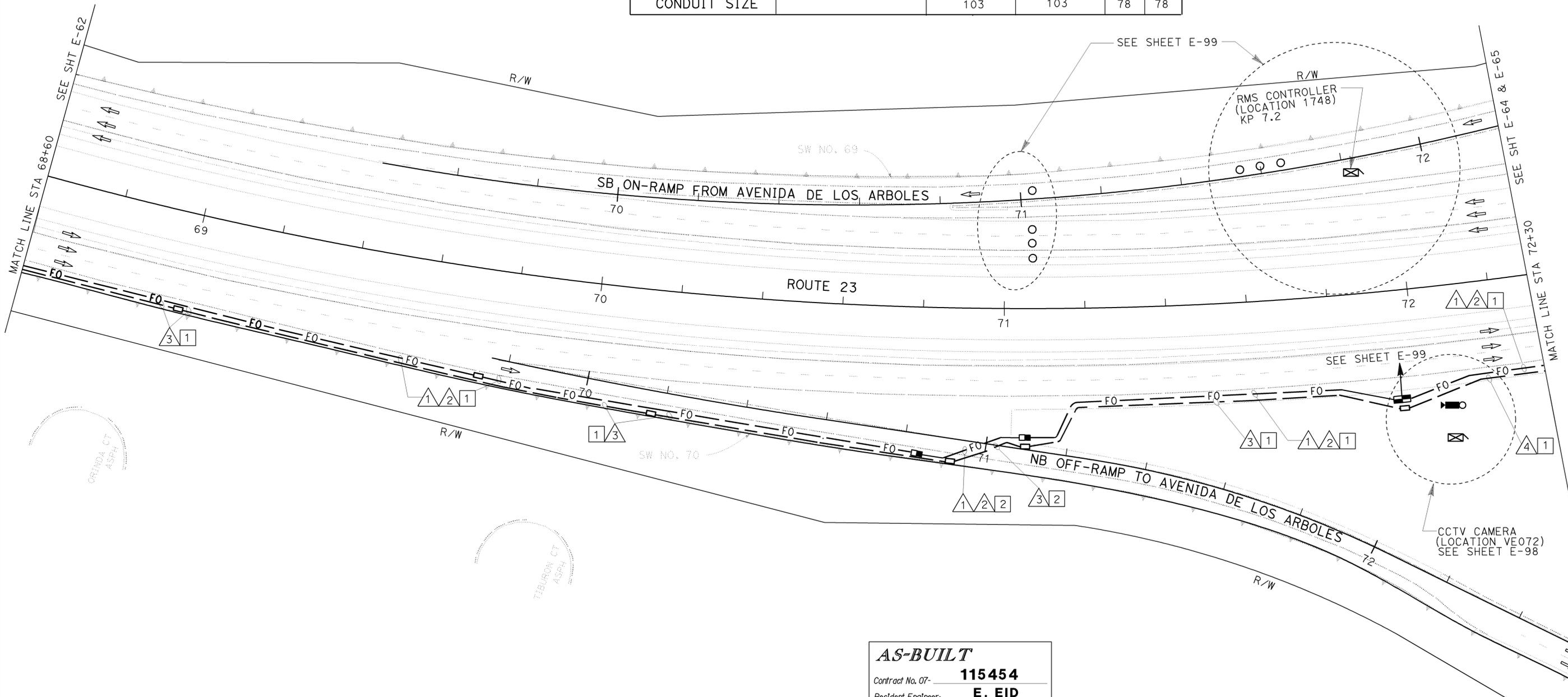
Jacqueline C. Tan 7-14-03
REGISTERED ELECTRICAL ENGINEER

8-22-05
PLANS APPROVAL DATE



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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

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USERNAME => S110796
 DGN FILE => 7115454a063.dgn

CU 07388

EA 115451

E-63

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 CALCULATED/DESIGNED BY: HKA
 CHECKED BY: JT
 DATE: [blank]
 REVISIONS BY: [blank]
 DATE REVISED: [blank]

LAST REVISION: 00-00-00
 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 09:57



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		577	849

7-14-03
REGISTERED ELECTRICAL ENGINEER

8-22-05
PLANS APPROVAL DATE

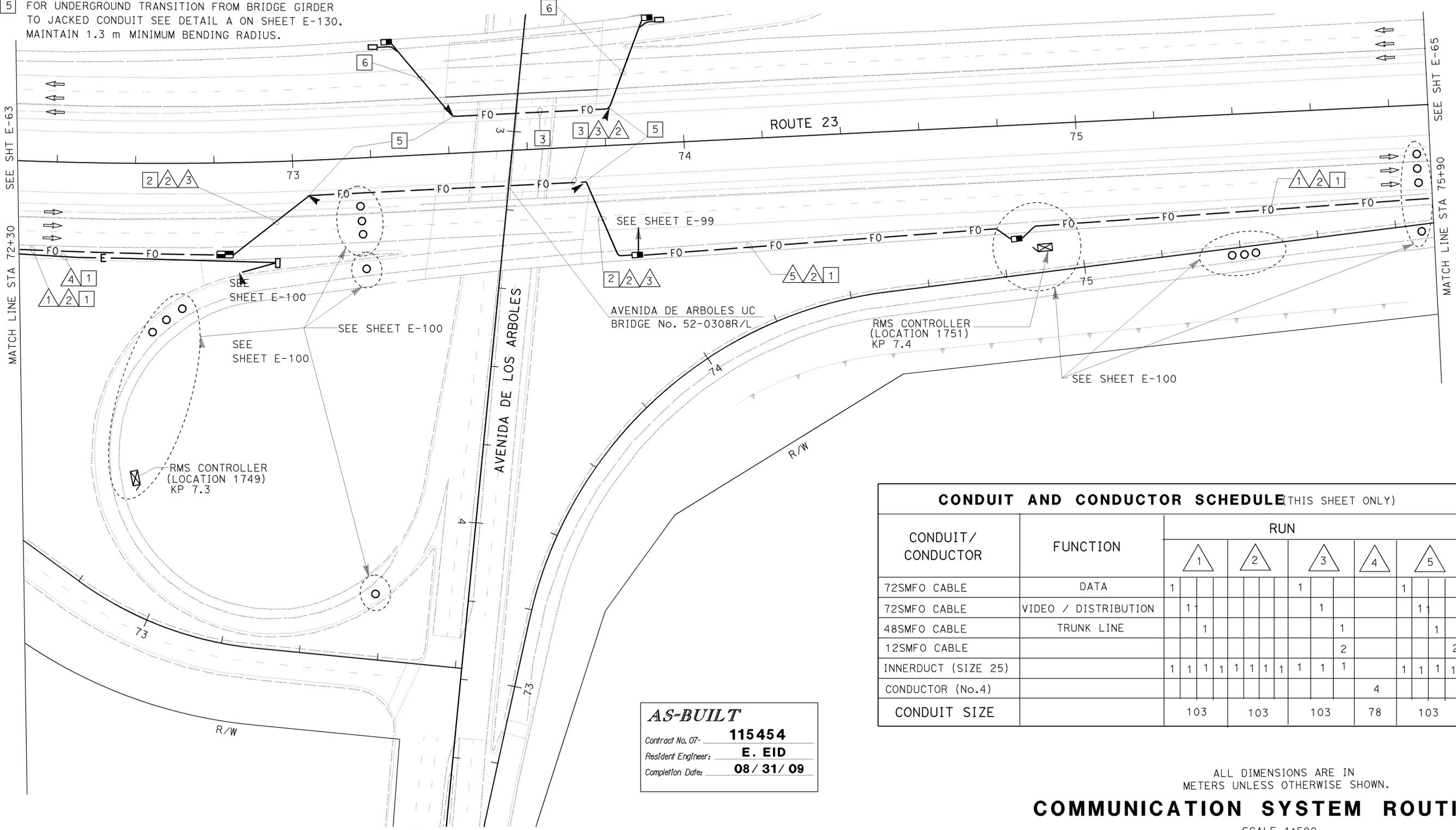
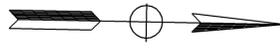
JACQUELINE C. TAN
REGISTERED PROFESSIONAL ENGINEER
No. E015611
Exp. 12/31/05
ELECTRICAL
STATE OF CALIFORNIA

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PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 INSTALL 2-103C INSIDE BRIDGE BARRIER(NB AND SB). SEE STRUCTURAL PLANS FOR DETAILS.
- 4 SERVICE EQUIPMENT ENCLOSURE INSTALLATION INCLUDED IN LIGHTING PLANS.
- 5 FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.
- 6 JACK 2-103C CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT / CONDUCTOR	FUNCTION	RUN				
		1	2	3	4	5
72SMFO CABLE	DATA	1		1		1
72SMFO CABLE	VIDEO / DISTRIBUTION	1		1		1
48SMFO CABLE	TRUNK LINE	1			1	1
12SMFO CABLE				2		2
INNERDUCT (SIZE 25)		1	1	1	1	1
CONDUCTOR (No.4)					4	
CONDUIT SIZE		103	103	103	78	103

AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

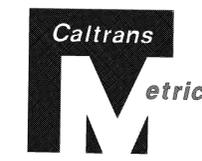
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FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT
PROJECT ENGINEER
HOSAKERE K. ANANTH
CALCULATED / DESIGNED BY
CHECKED BY
HKA
JT
DATE REVISIONS BY
DATE REVISIONS

DATE PLOTTED => 22-APR-2010
TIME PLOTTED => 09:57

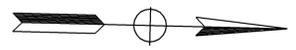
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER	CALCULATED/DESIGNED BY	HKA	DATE	REVISED BY
Caltrans ITS DEVELOPMENT	HOSAKERE K. ANANTH	CHECKED BY	JT		DATE REVISED



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	578	849

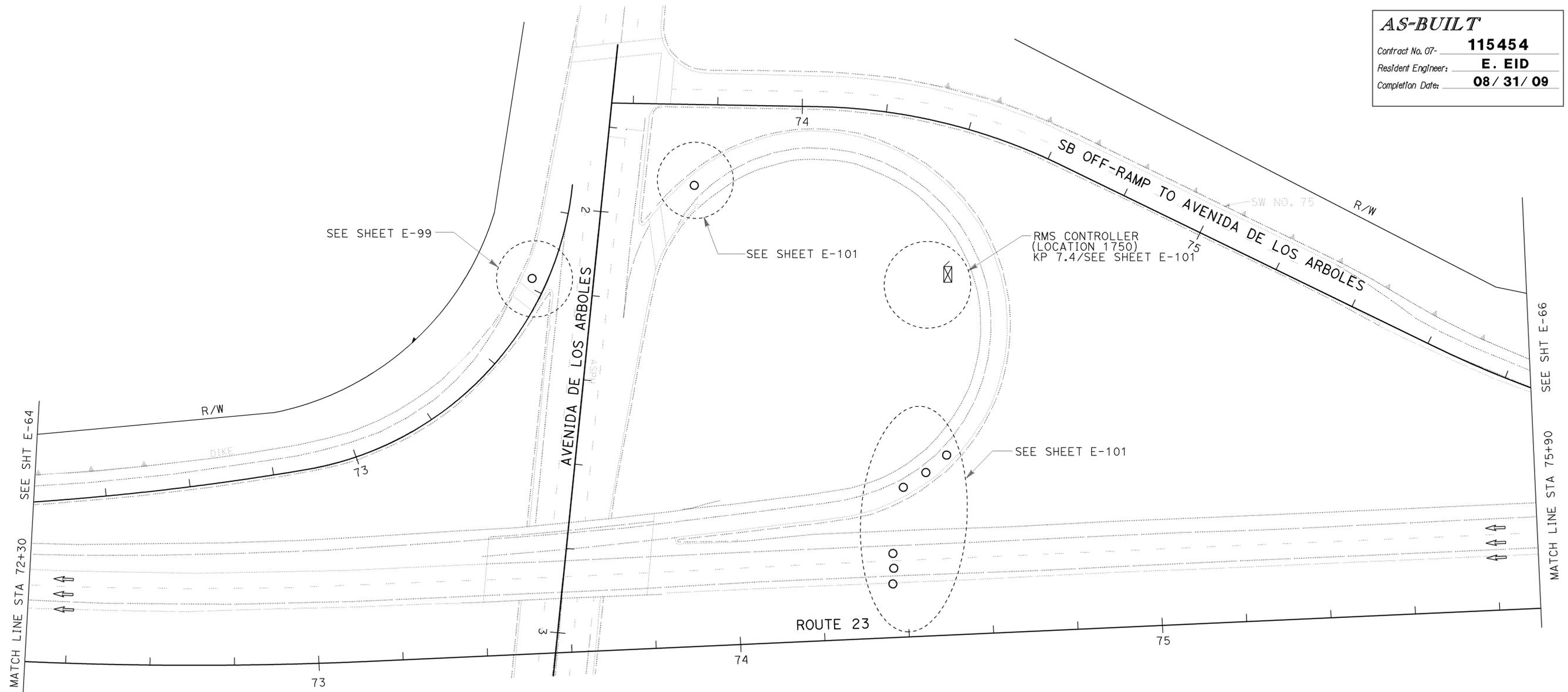
Jacqueline C. Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE

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AS-BUILT

Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



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COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-65

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT / CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		579	849

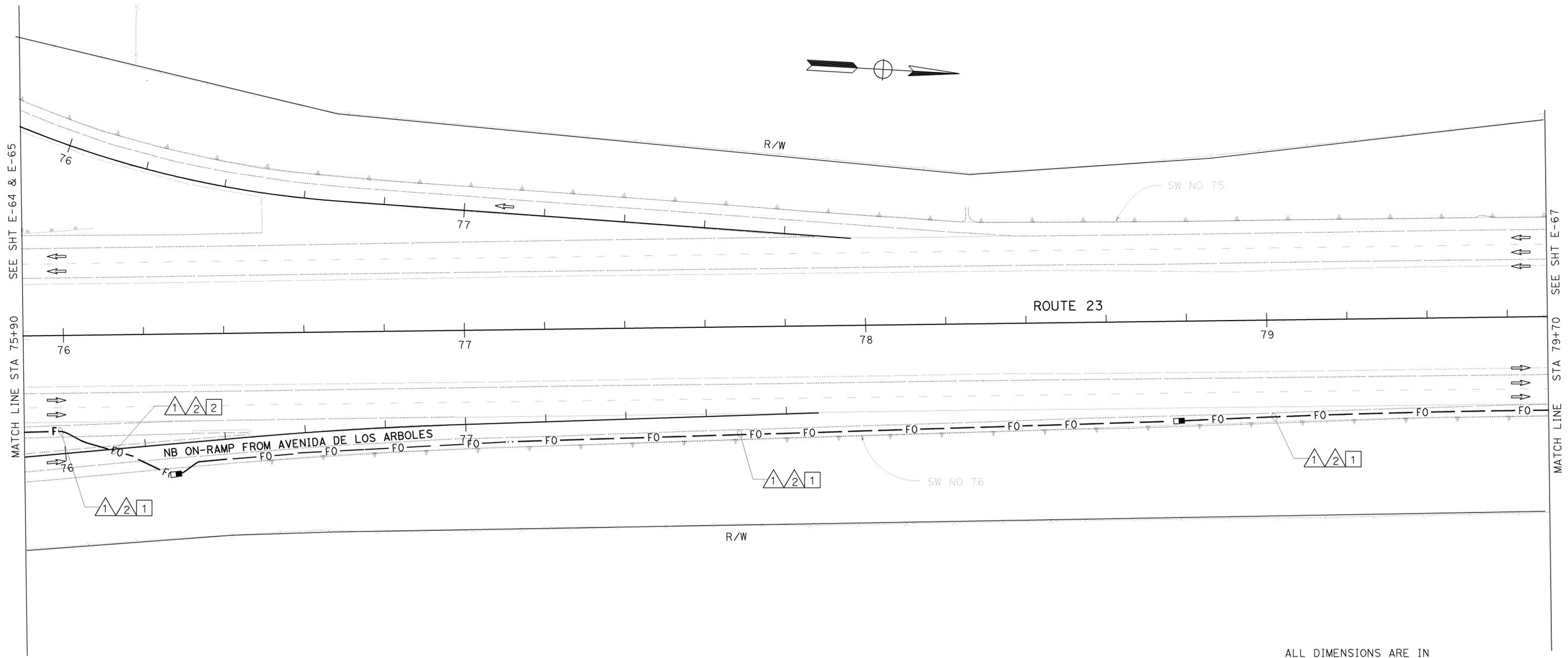
REGISTERED ELECTRICAL ENGINEER
Jacqueline C. Tan 7-14-03
 8-22-05
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-66

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



USERNAME => S110796
 DGN FILE => 711545ua066.dgn

CU 07388

EA 115451

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 TIME PLOTTED => 09:58

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Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA JT
 DATE REVISED BY: DATE REVISED BY:
 CALCULATED/DESIGNED BY: CHECKED BY:

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 INSTALL 2-103C CONDUITS INSIDE BRIDGE GIRDER(NB AND SB). SEE STRUCTURAL PLANS FOR DETAILS.
- 4 SEE SOUND WALL PLANS FOR TMS CABINET ACCESS DOOR DETAILS.
- 5 FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.
- 6 JACK 2-103C BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)								
CONDUIT/ CONDUCTOR	FUNCTION	RUN						
		1			2			
72SMFO CABLE	DATA	1						
72SMFO CABLE	VIDEO / DISTRIBUTION		1					
48SMFO CABLE	TRUNK LINE			1				
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1
CONDUIT SIZE		103			103			



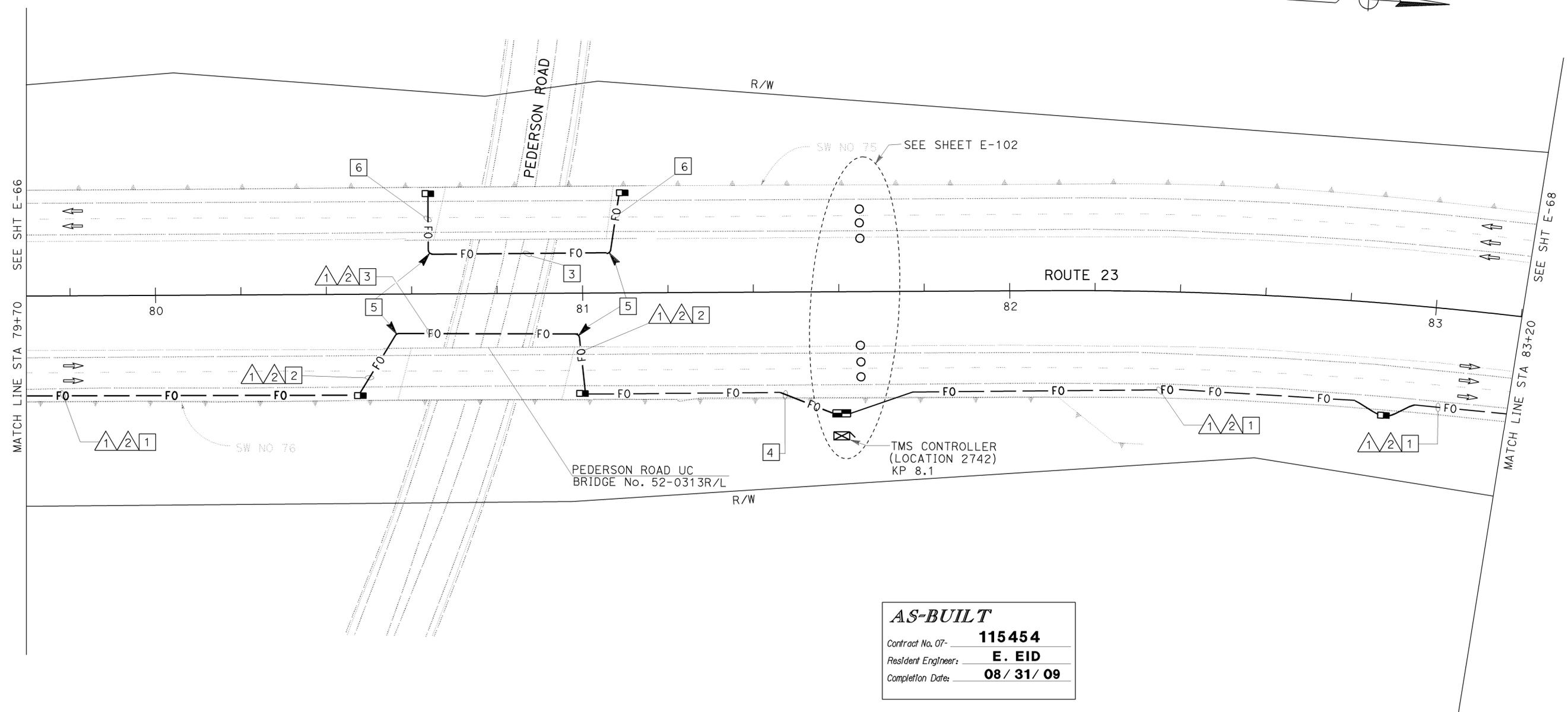
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	580	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500
E-67

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 DGN FILE => 711545u0067.dgn

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 PROJECT ENGINEER
 HOSAKERE K. ANANTH

DATE REVISIONS BY
 HKA
 JT
 CHECKED BY

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)									
CONDUIT / CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	VOICE / DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

PROJECT NOTES: (THIS SHEET ONLY)
 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-126 FOR DETAILS.



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		581	849

8-22-05
 PLANS APPROVAL DATE

Jacqueline C. Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA

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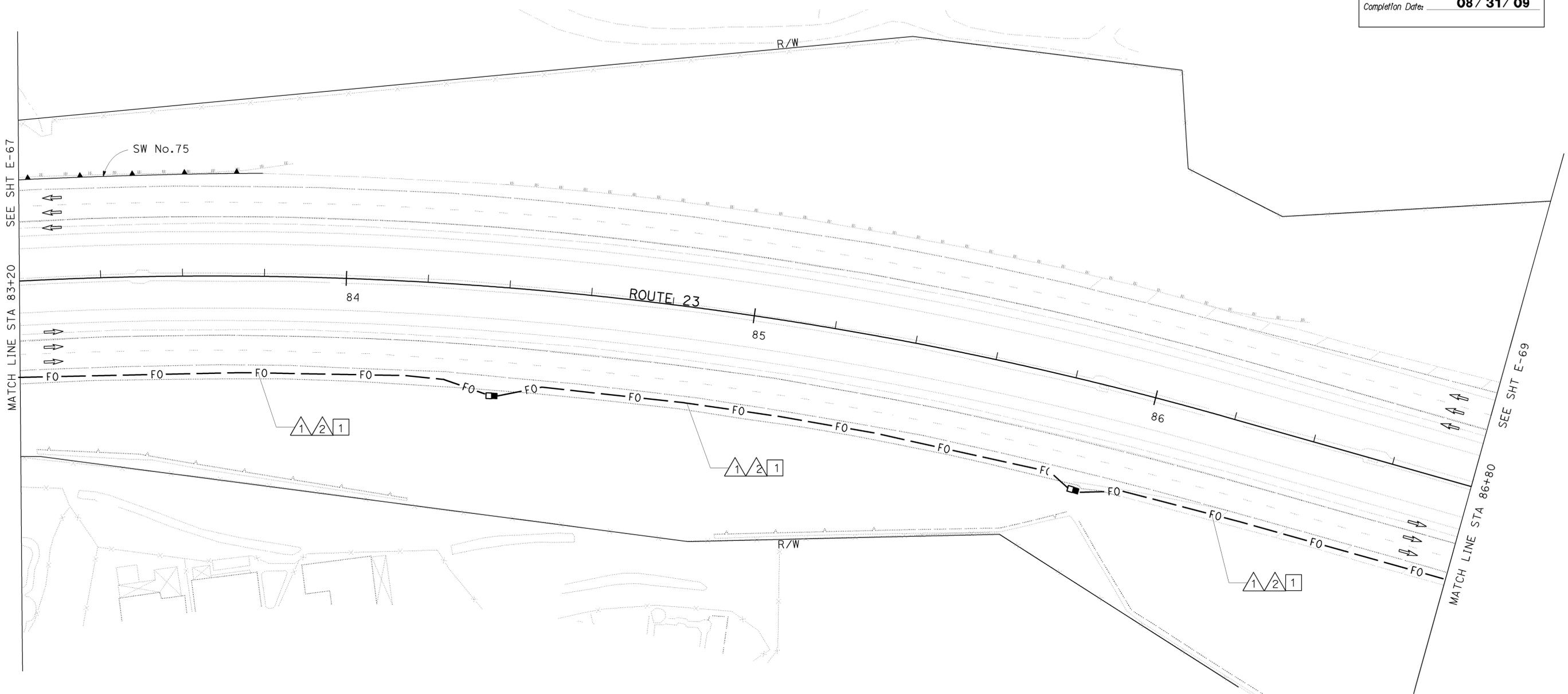
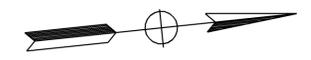
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AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**



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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500
E-68

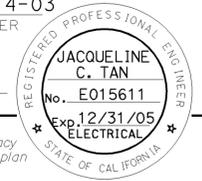


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Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
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 JT
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 CHECKED BY
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 DATE REVISED



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		582	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
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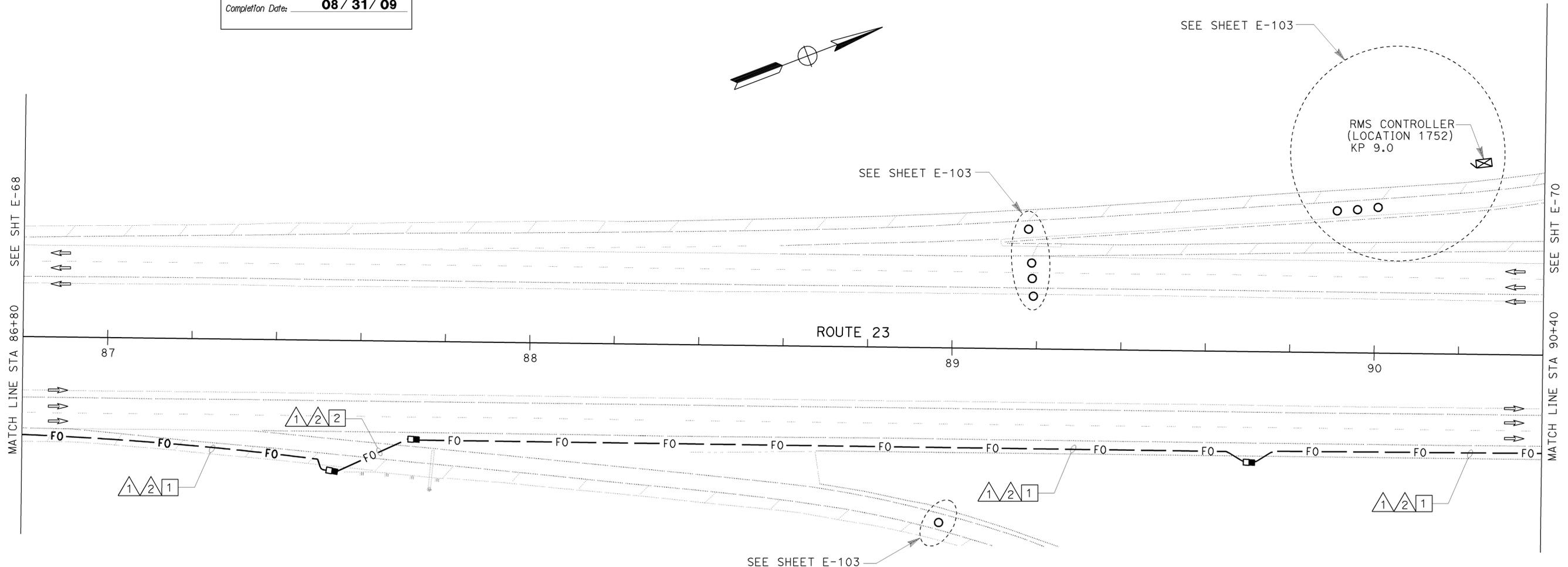


PROJECT NOTES: (THIS SHEET ONLY)

- TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

CONDUIT / CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



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COMMUNICATION SYSTEM ROUTING
 SCALE 1:500
E-69

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Caltrans
 ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE REVISED BY
 DATE REVISED

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)									
CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

PROJECT NOTES:(THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	583	849

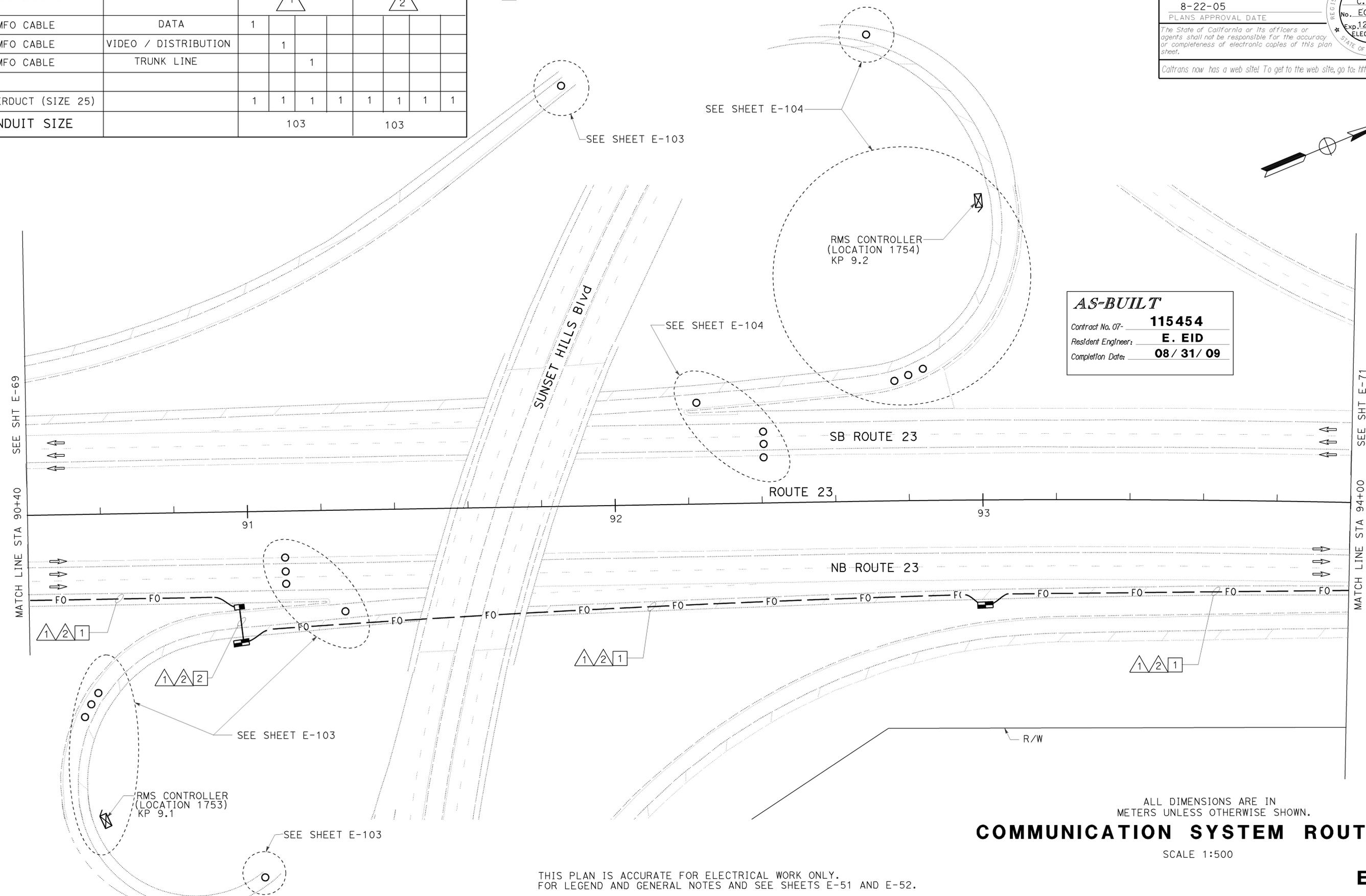
8-22-05
 PLANS APPROVAL DATE

Jacqueline C. Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08/31/09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		584	849

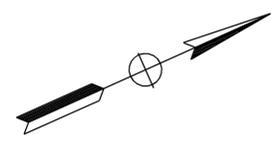
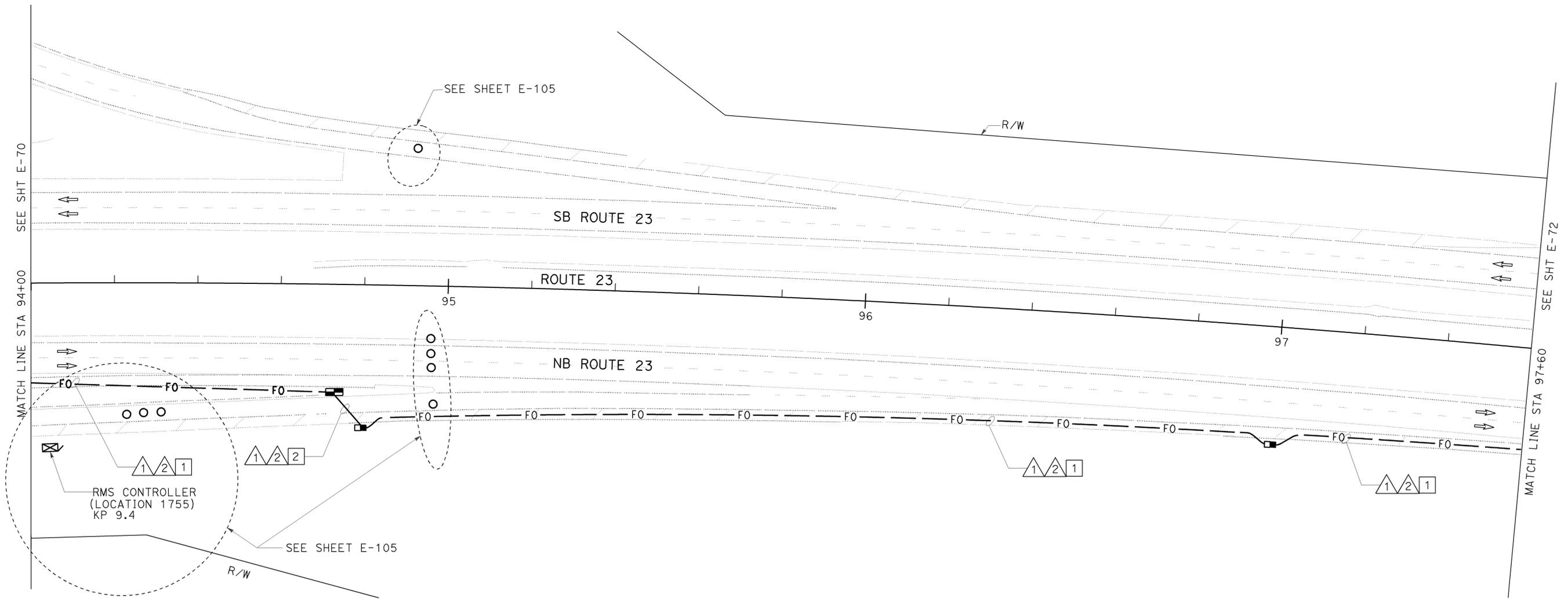
7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
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CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500

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USERNAME => S110796
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E-71

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 PROJECT ENGINEER
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 HKA
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		585	849

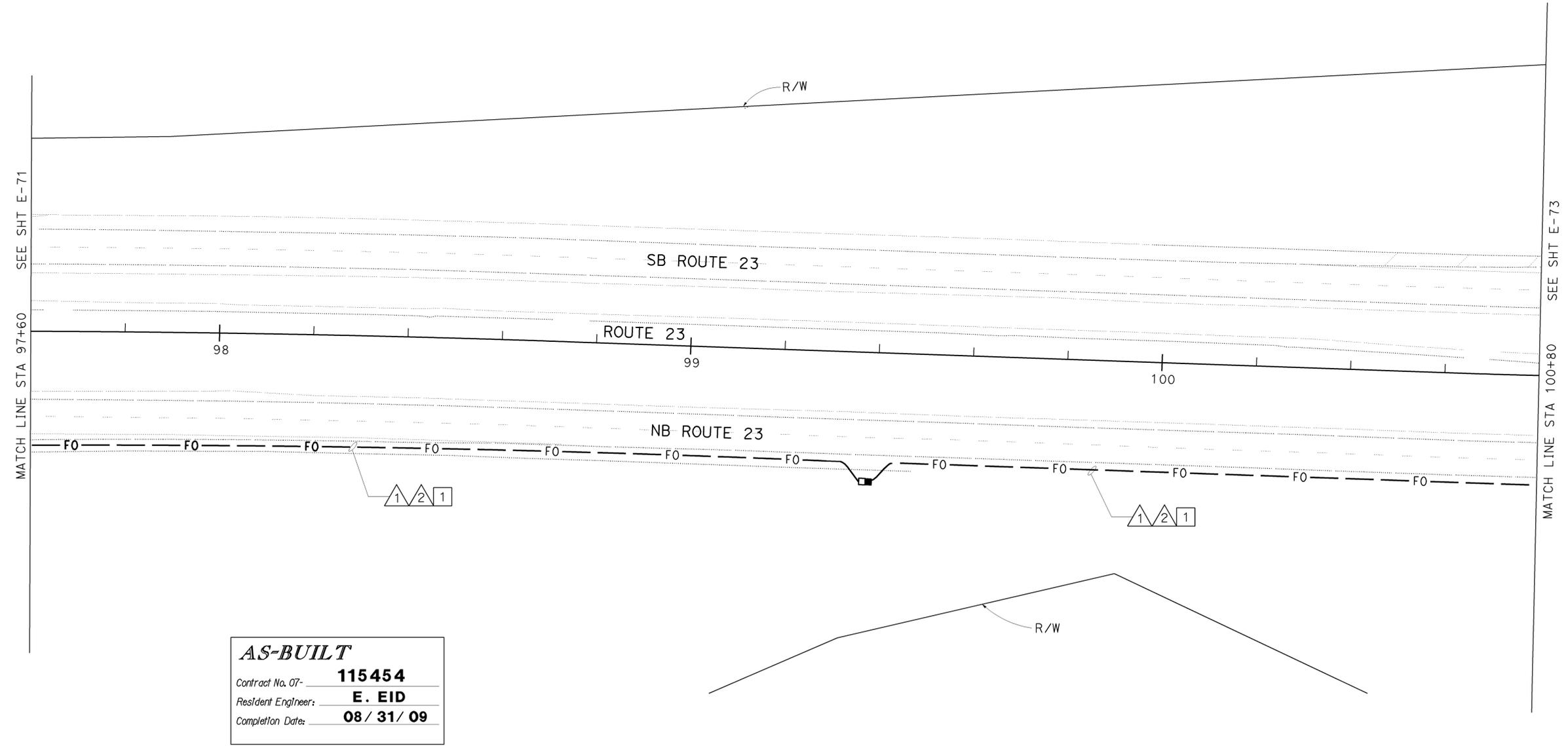
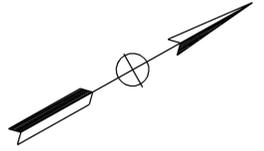
7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA
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PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

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

SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

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 DGN FILE => 711545u0072.dgn

CU 07388

EA 115451

E-72

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 TIME PLOTTED => 09:59

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY: HKA
 DATE REVISED BY: JT
 CALCULATED/DESIGNED BY: HOSAKERE K. ANANTH
 CHECKED BY: JT

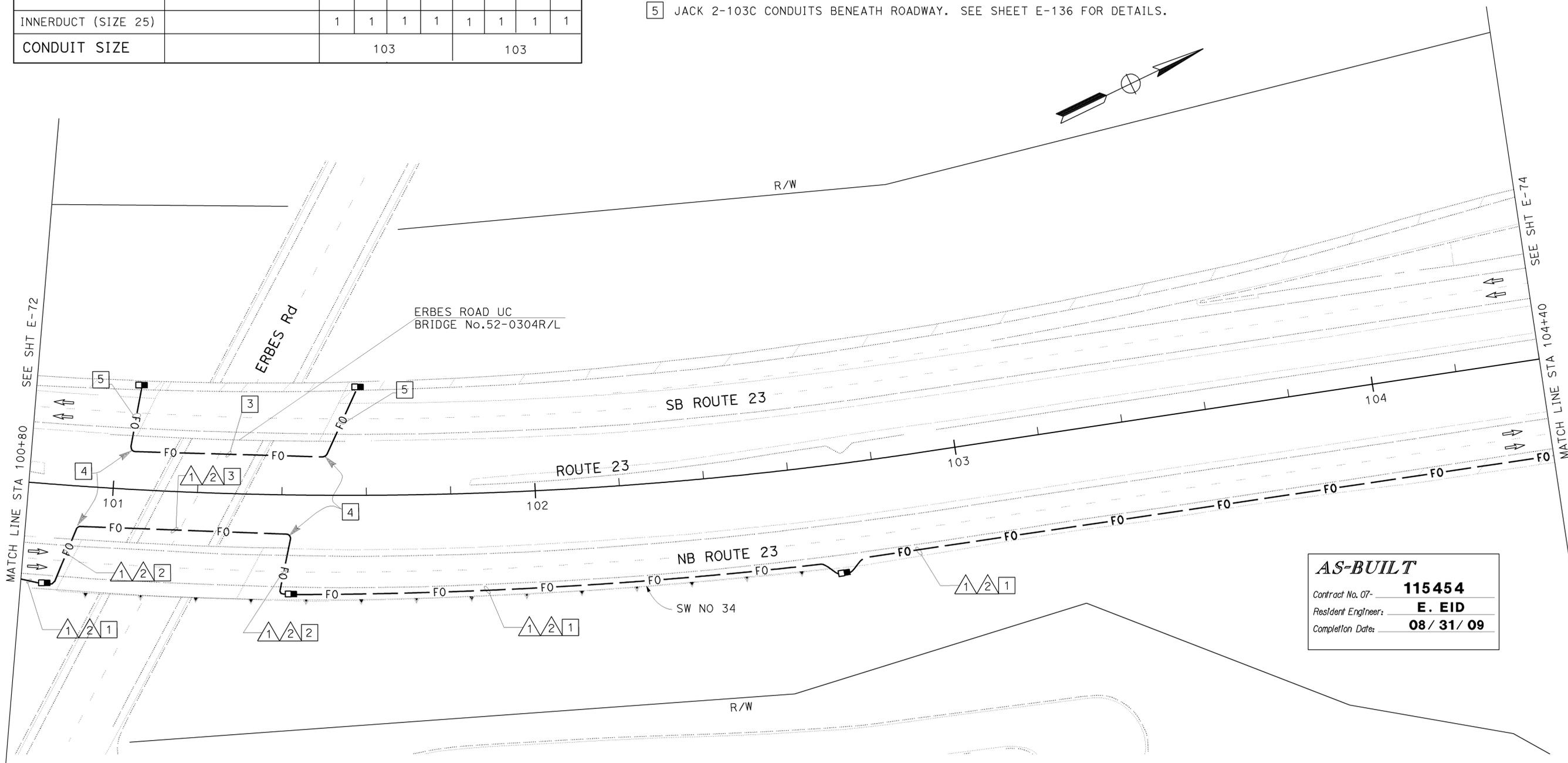


DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		586	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA
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CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

- PROJECT NOTES: (THIS SHEET ONLY)**
- TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
 - JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
 - INSTALL 2-103C INSIDE NEW BRIDGE GIRDER(NB AND SB). SEE STRUCTURAL PLANS FOR DETAILS.
 - FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.
 - JACK 2-103C CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.



AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



COMMUNICATION SYSTEM ROUTING

SCALE 1:500

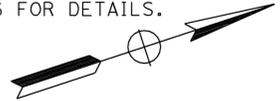
E-73

DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 09:59

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY: _____ DATE REVISED: _____
 CALCULATED/DESIGNED BY: _____ CHECKED BY: _____

PROJECT NOTES; (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.
- 4 JACK 2-103C CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

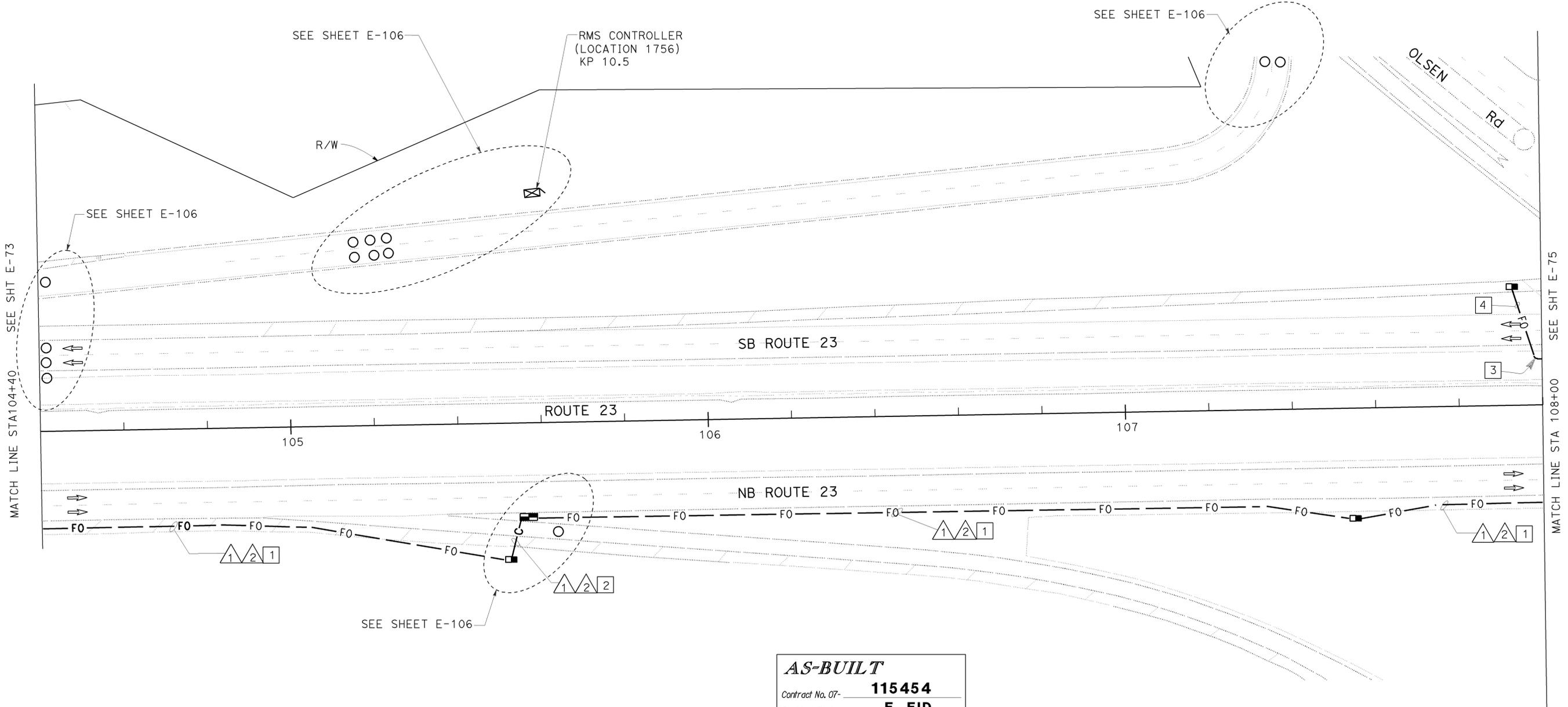
CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		587	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA



AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500
E-74

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		588	849



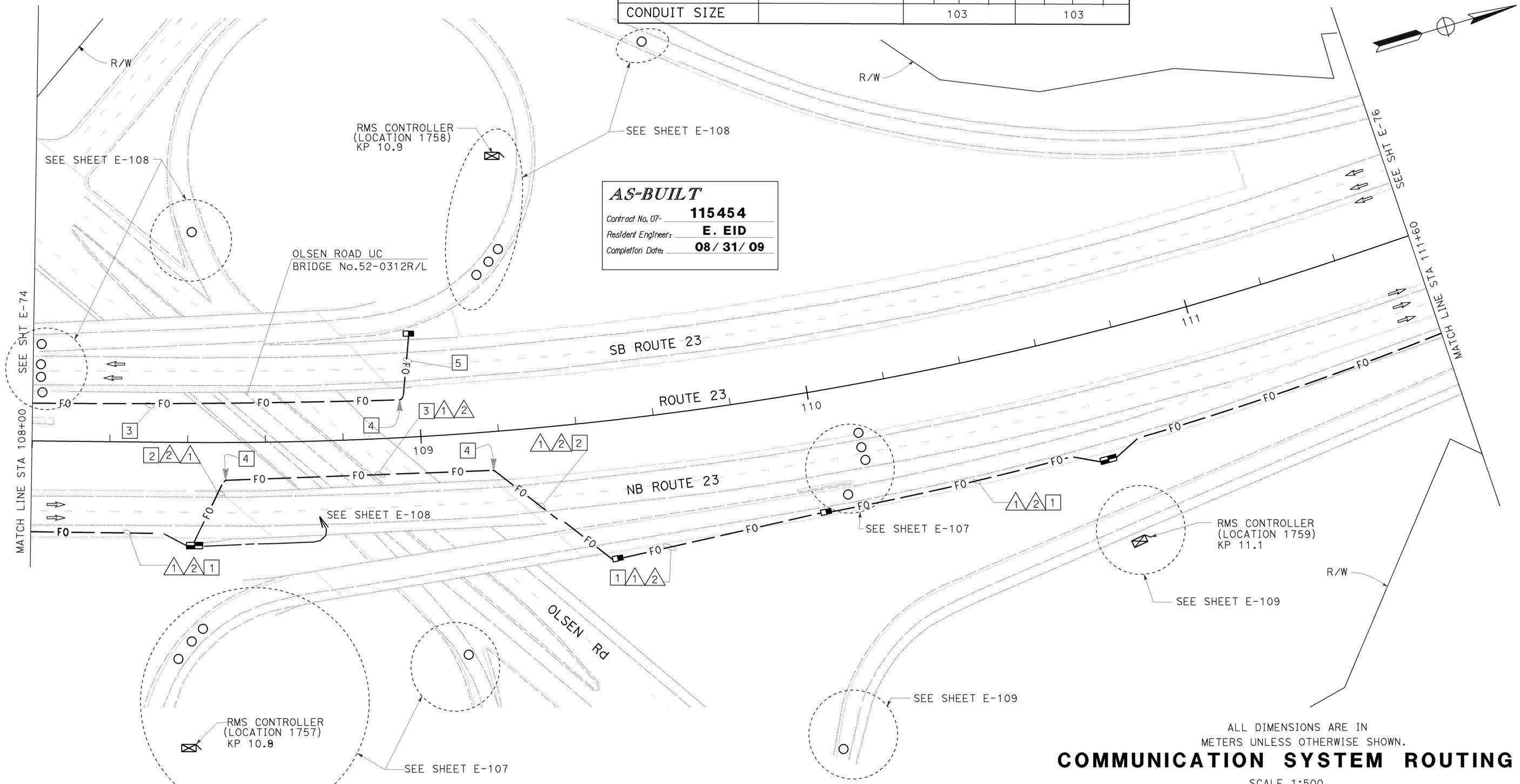
8-22-05
 PLANS APPROVAL DATE
 REGISTERED ELECTRICAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA
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PROJECT NOTES; (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 INSTALL 2-103C CONDUITS IN BRIDGE STRUCTURE(NB AND SB). SEE STRUCTURAL PLANS FOR DETAILS.
- 4 FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.
- 5 JACK 2-103C CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN							
CONDUIT / CONDUCTOR	FUNCTION	1				2			
		1	2	3	4	1	2	3	4
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION	1							
48SMFO CABLE	TRUNK LINE		1						
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500

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USERNAME => S110796
 DGN FILE => 711545u0075.dgn

CU 07388

EA 115451

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY

LAST REVISION
 00-00-00
 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:00

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		589	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE

Jacqueline C. Tan
 REGISTERED PROFESSIONAL ENGINEER
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUIT(S) IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT / CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



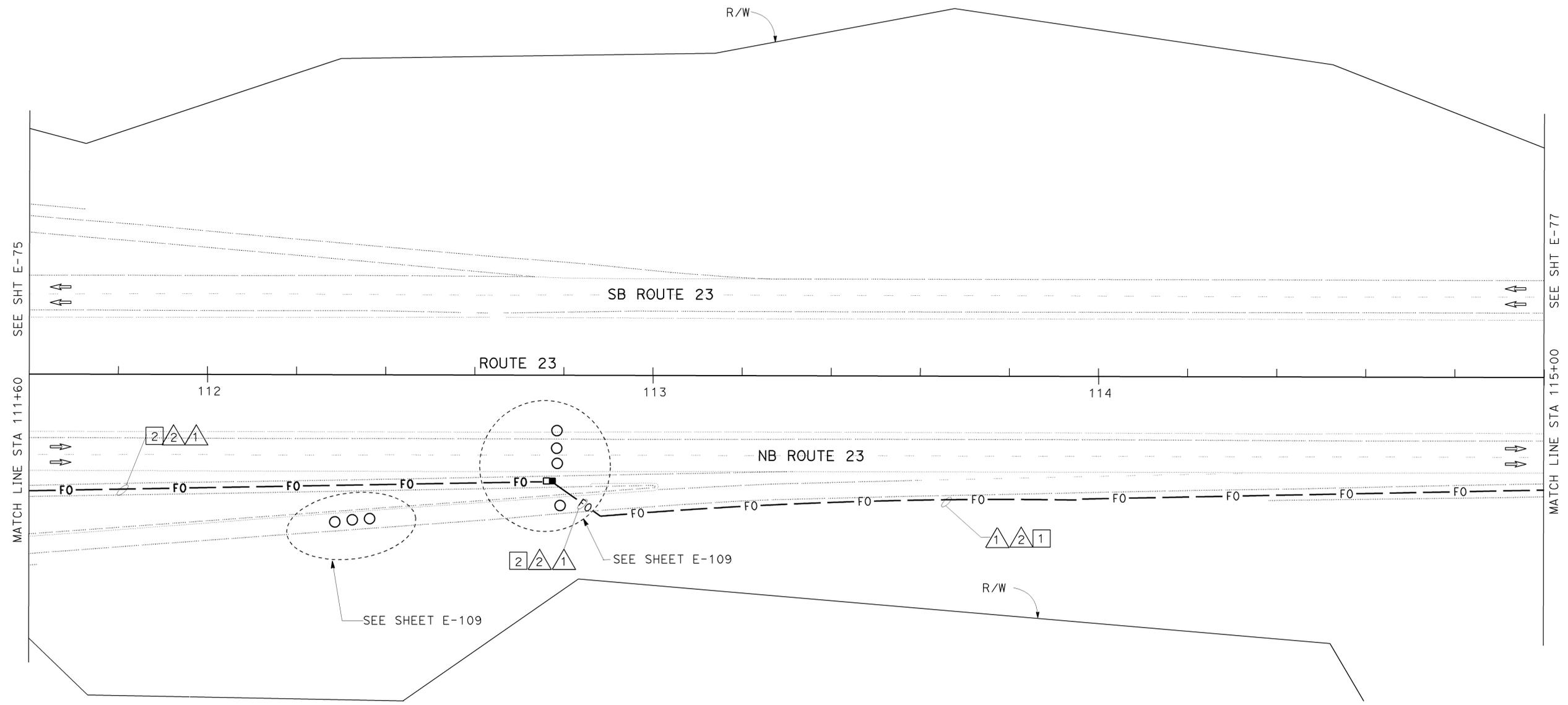
AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 PROJECT ENGINEER
 HOSAKERE K. ANANTH
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COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-76

LAST REVISION
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 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:00

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	590	849



Jacqueline C Tan 7-14-03
REGISTERED ELECTRICAL ENGINEER

8-22-05
PLANS APPROVAL DATE

JACQUELINE C. TAN
No. E015611
Exp. 12/31/05
ELECTRICAL
STATE OF CALIFORNIA

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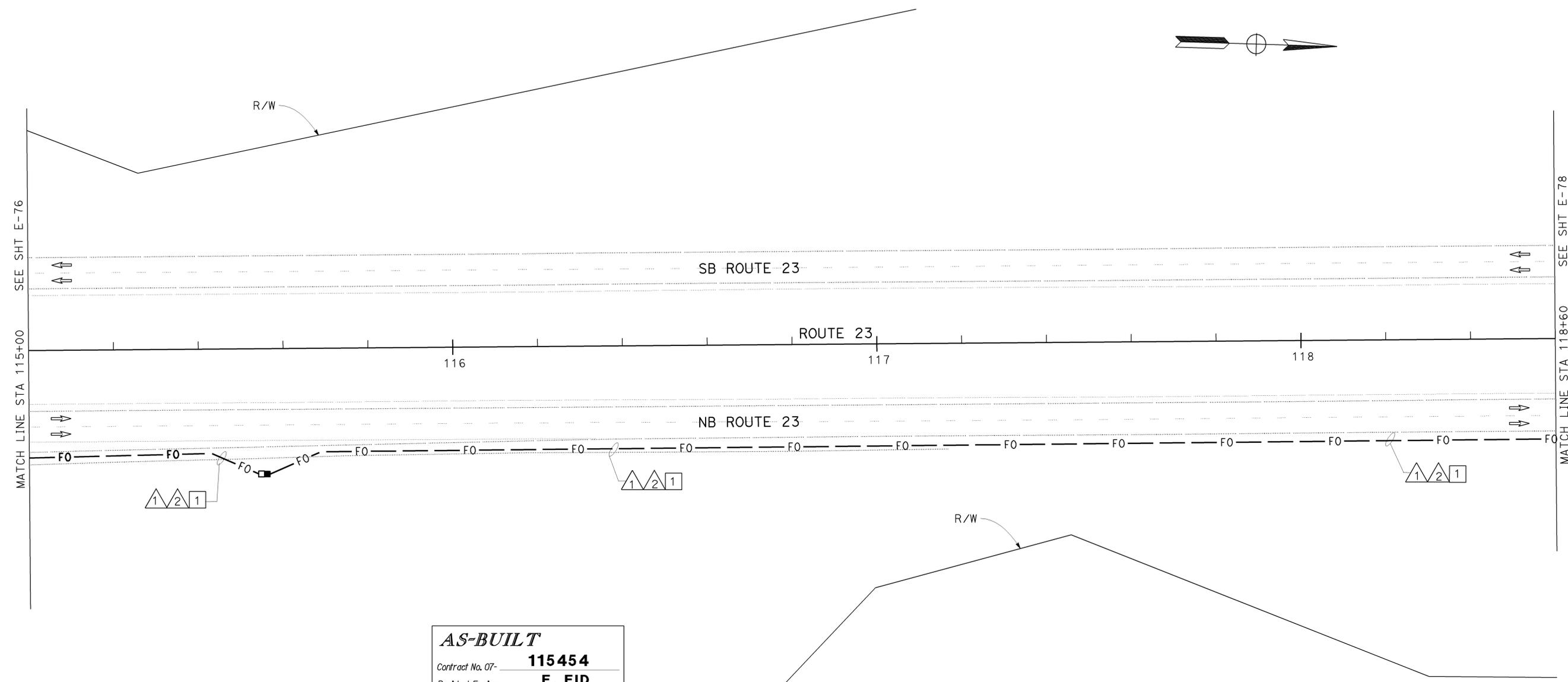
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PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN							
	FUNCTION	1				2			
		72SMFO CABLE	DATA	1					
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY
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 CHECKED BY



AS-BUILT
 Contract No. **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500

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USERNAME => S110796
 DGN FILE => 711545Ua077.dgn

CU 07388

EA 115451

E-77

LAST REVISION
 00-00-00
 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:00

PROJECT NOTES: (THIS SHEET ONLY)

1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	591	849

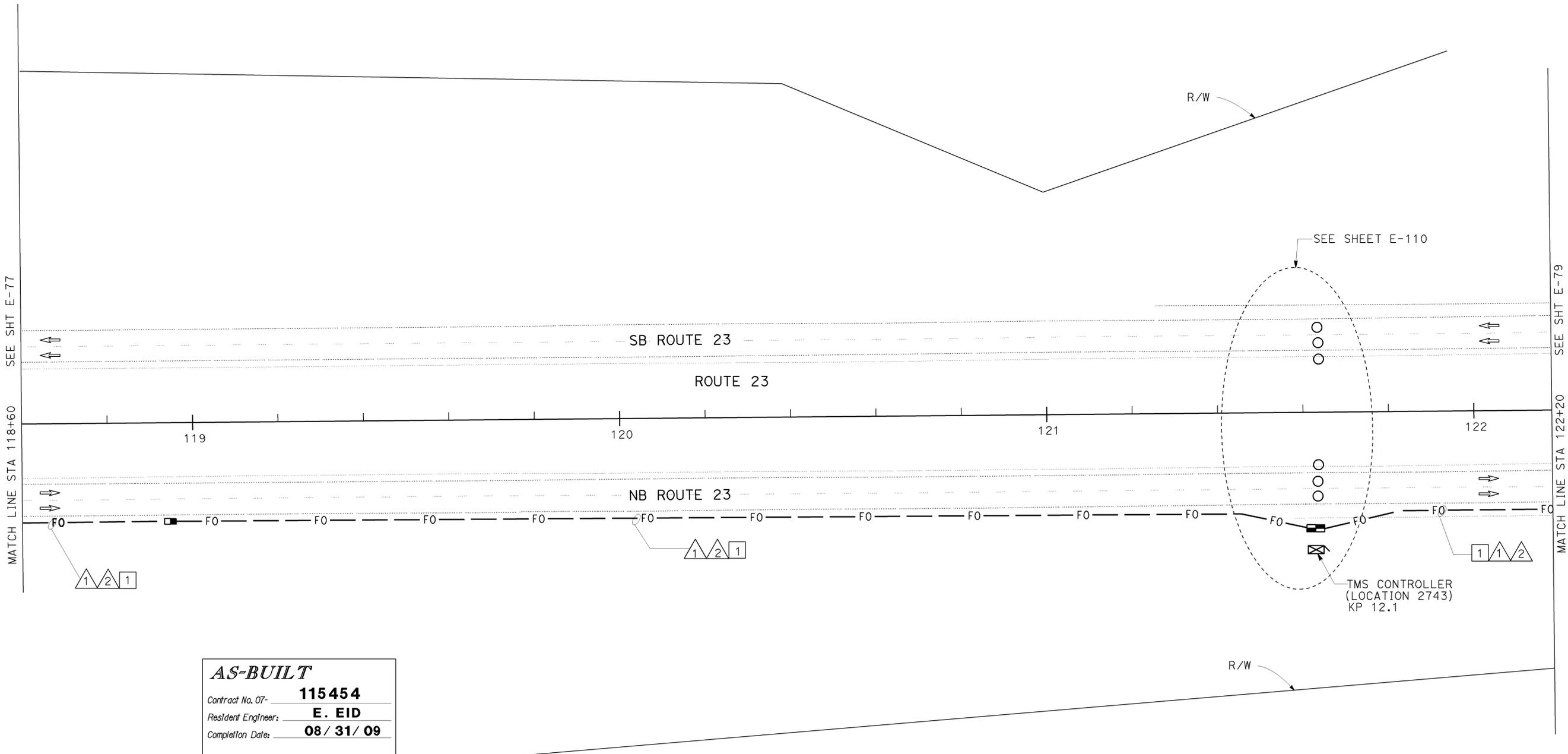
Jacqueline C Tan 7-14-03
REGISTERED ELECTRICAL ENGINEER

8-22-05
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. TAN
No. E015611
Exp. 12/31/05
ELECTRICAL
STATE OF CALIFORNIA

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AS-BUILT
Contract No. 07- **115454**
Resident Engineer: **E. EID**
Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
SCALE 1:500
E-78

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USERNAME => S110796
DGN FILE => 711545ua078.dgn

CU 07388

EA 115451

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT
PROJECT ENGINEER
HOSAKERE K. ANANTH
HKA
JT
REVISOR
DATE
REVISOR
DATE

LAST REVISION
00-00-00
DATE PLOTTED => 22-APR-2010
TIME PLOTTED => 10:01

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE
 REVISED BY
 DATE REVISED

PROJECT NOTES: (THIS SHEET ONLY)

1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		595	849

Jacqueline C Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER

8-22-05
 PLANS APPROVAL DATE

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
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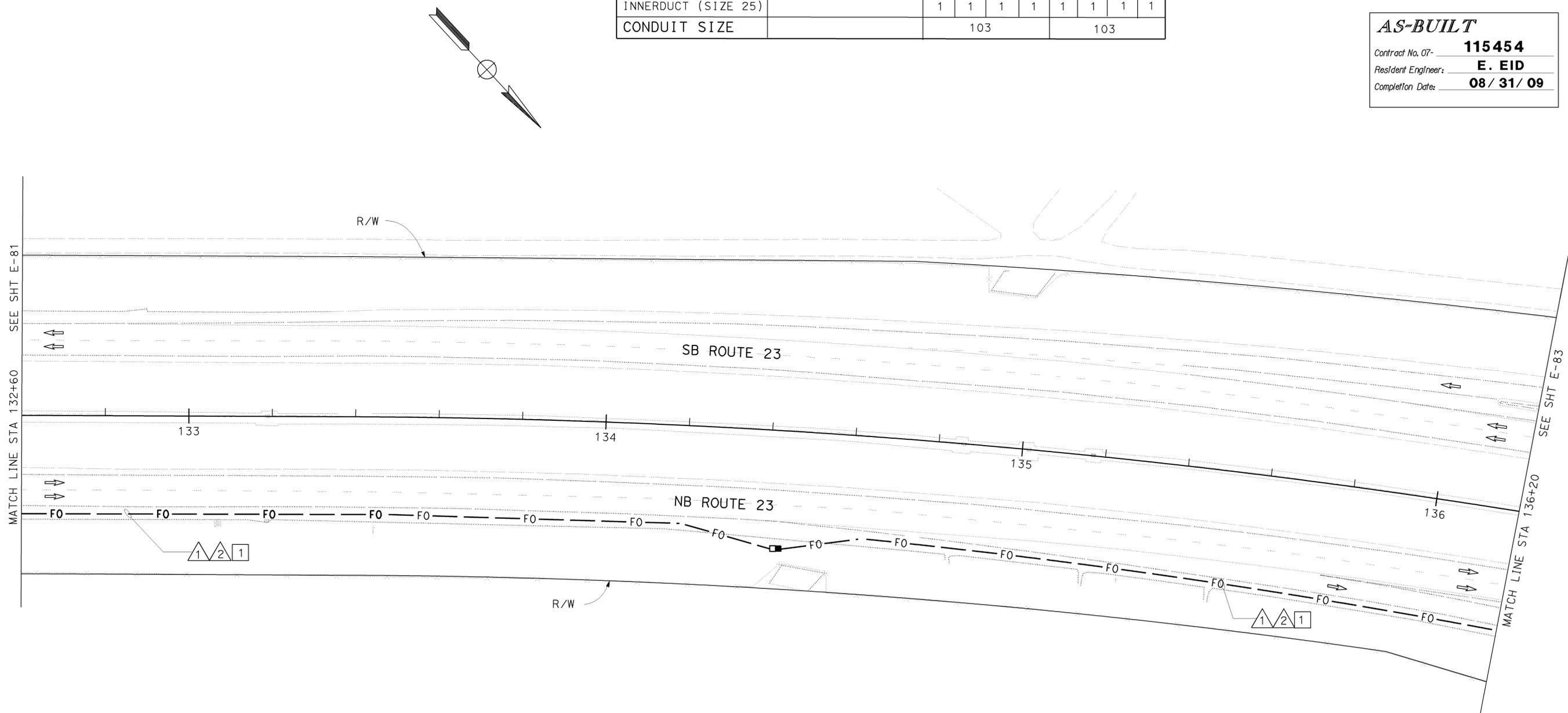
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AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500

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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK TYPE 1 CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

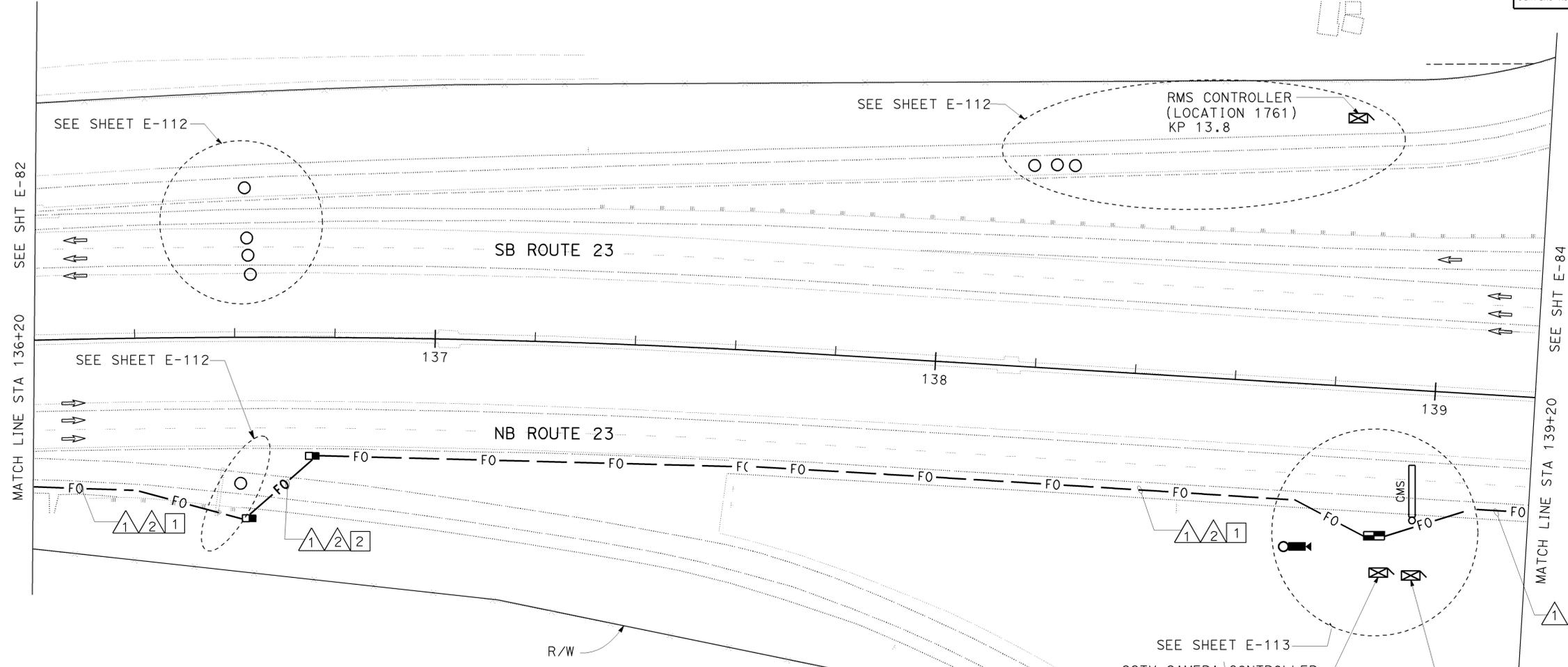
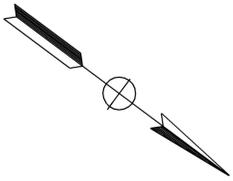


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	596	849

Jacqueline C. Tan
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION	1							
48SMFO CABLE	TRUNK LINE		1						
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

AS-BUILT

Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

E-83

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USERNAME => S110796
DGN FILE => 711545ua083.dgn

CU 07388

EA 115451

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 REVISIONS: (Table with columns for NO., DATE, BY, DESCRIPTION)

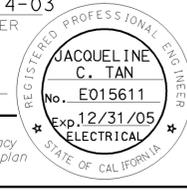
LAST REVISION: 00-00-00
 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:02

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA JT
 DATE REVISIONS BY DATE REVISIONS BY
 CALCULATED/DESIGNED BY CHECKED BY
 DATE REVISIONS BY DATE REVISIONS BY



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		597	849

REGISTERED ELECTRICAL ENGINEER
 7-14-03
 8-22-05
 PLANS APPROVAL DATE
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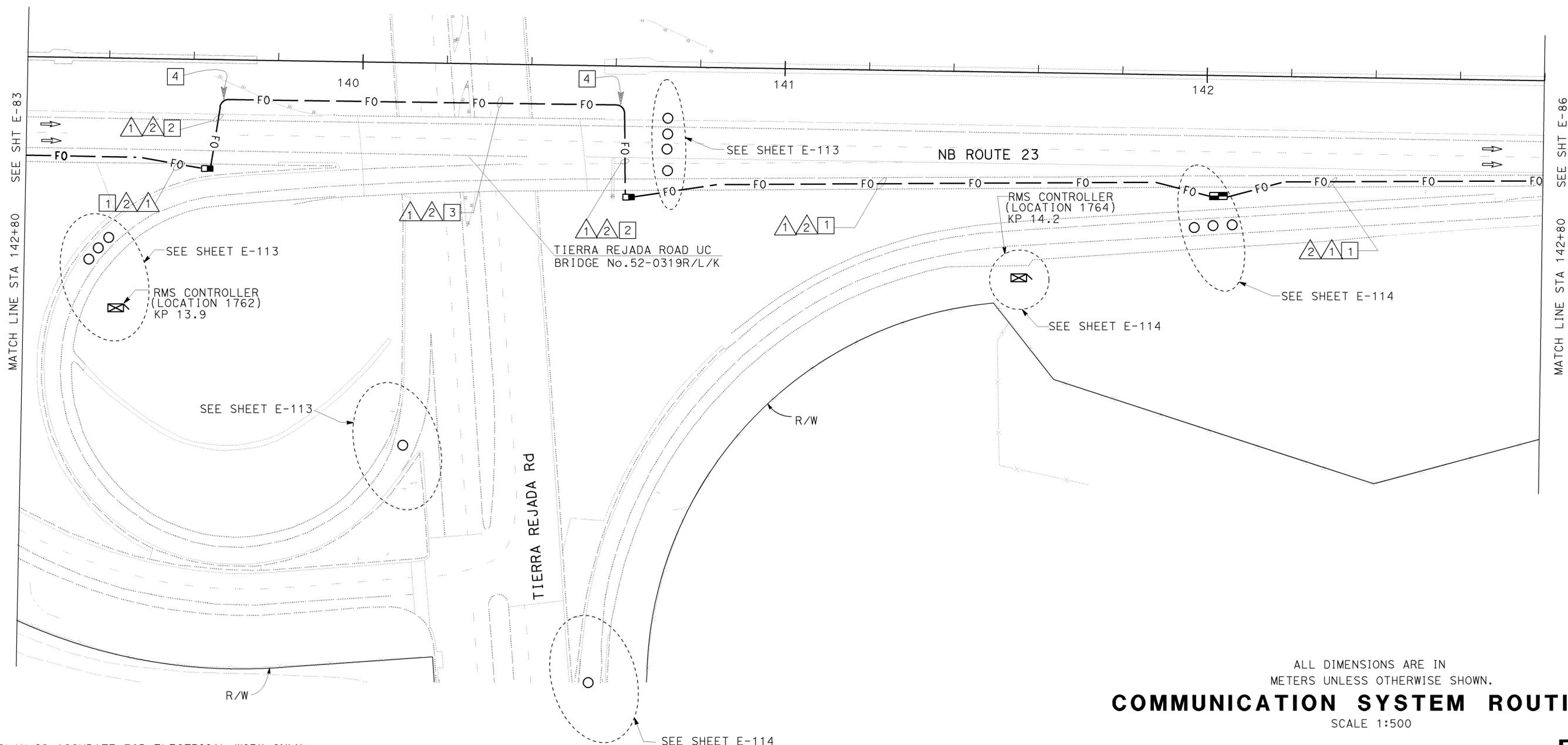
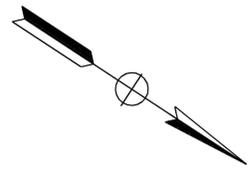
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK TYPE 1 CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 INSTALL 2-103C INSIDE NEW BRIDGE GIRDER(NB AND SB). SEE STRUCTURAL PLANS FOR DETAILS.
- 4 FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

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

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL 2-103C INSIDE NEW BRIDGE GIRDER. SEE STRUCTURAL PLANS FOR DETAILS.
- 2 JACK 2-103C TYPE 1 CONDUITS BENEATH THE ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 FOR UNDERGROUND TRANSITION FROM BRIDGE GIRDER TO JACKED CONDUIT SEE DETAIL A ON SHEET E-130. MAINTAIN 1.3 m MINIMUM BENDING RADIUS.

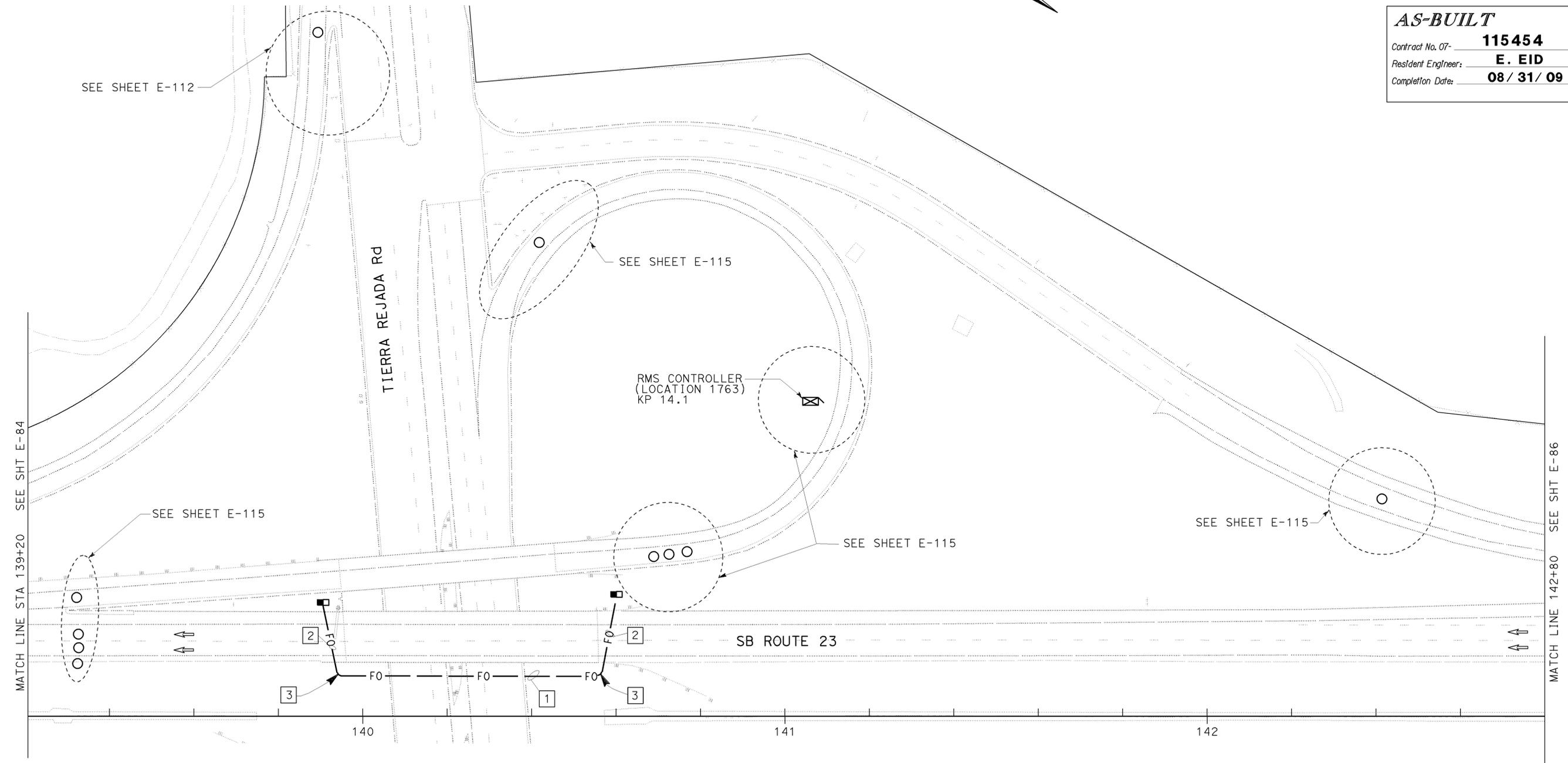


DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		598	849

Jacqueline C Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
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USERNAME => S110796
 DGN FILE => 711545ua085.dgn

CU 07388

EA 115451

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY

PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK TYPE 1 CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		599	849

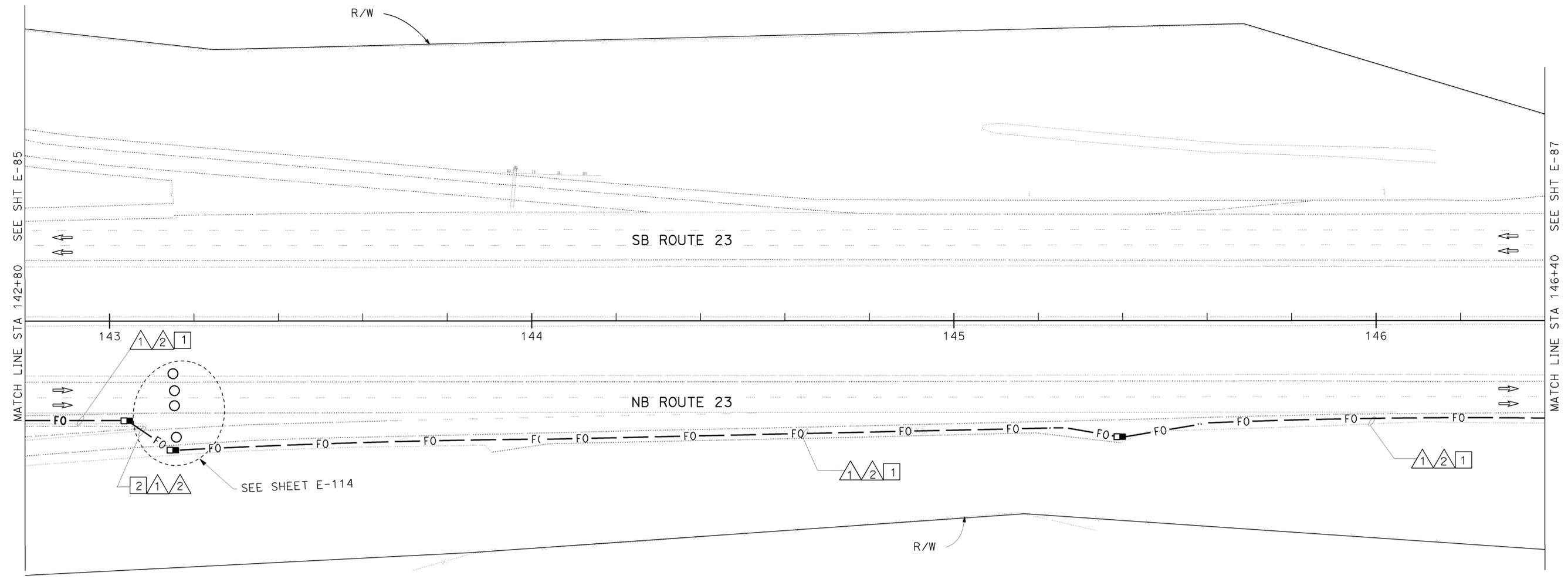
7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE

Jacqueline C. Tan
 REGISTERED ELECTRICAL ENGINEER
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500

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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

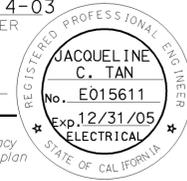


DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:03



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		600	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE
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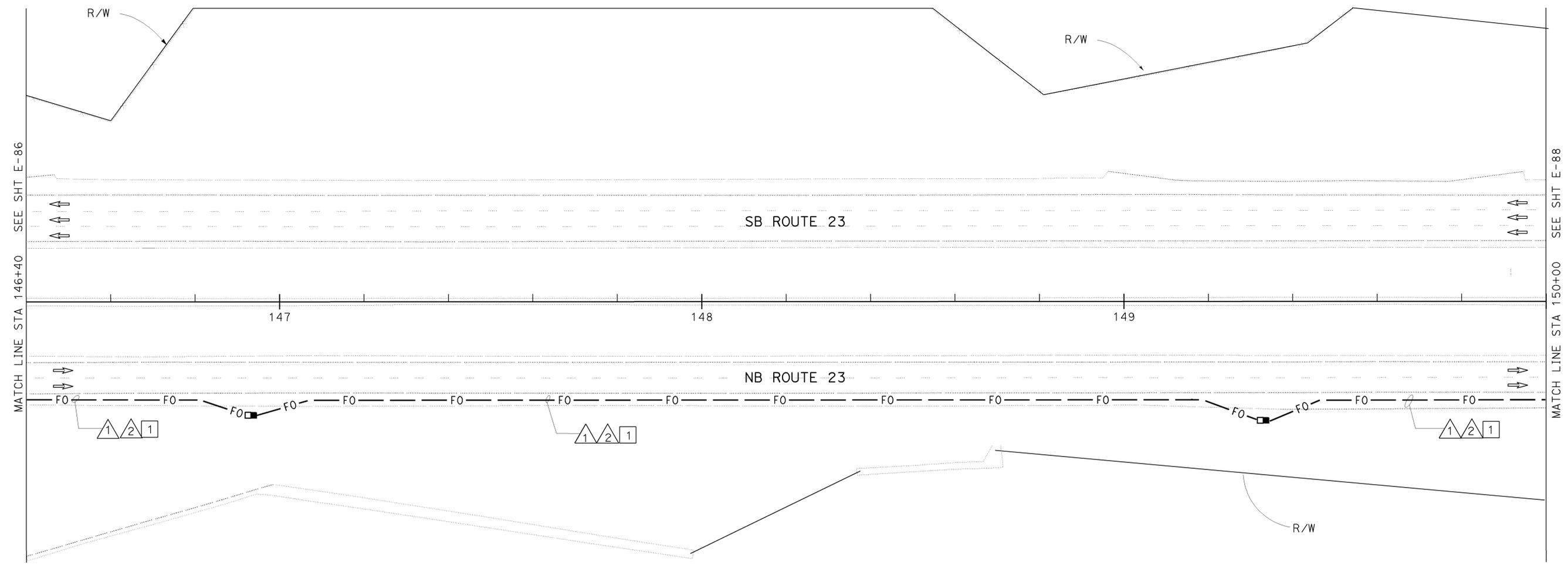


PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING

SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY. FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



USERNAME => S110796
 DGN FILE => 711545ua087.dgn

CU 07388

EA 115451

E-87

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER	DESIGNED BY	DATE
Caltrans	HOSAKERE K. ANANTH	CHECKED BY	
		DESIGNED BY	
		CHECKED BY	
		DATE	
		REVISER BY	
		DATE	
		REVISER BY	
		DATE	
		REVISER BY	
		DATE	
		REVISER BY	
		DATE	

LAST REVISION
 00-00-00 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:03

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE REVISED BY
 DATE REVISED

PROJECT NOTES; (THIS SHEET ONLY)

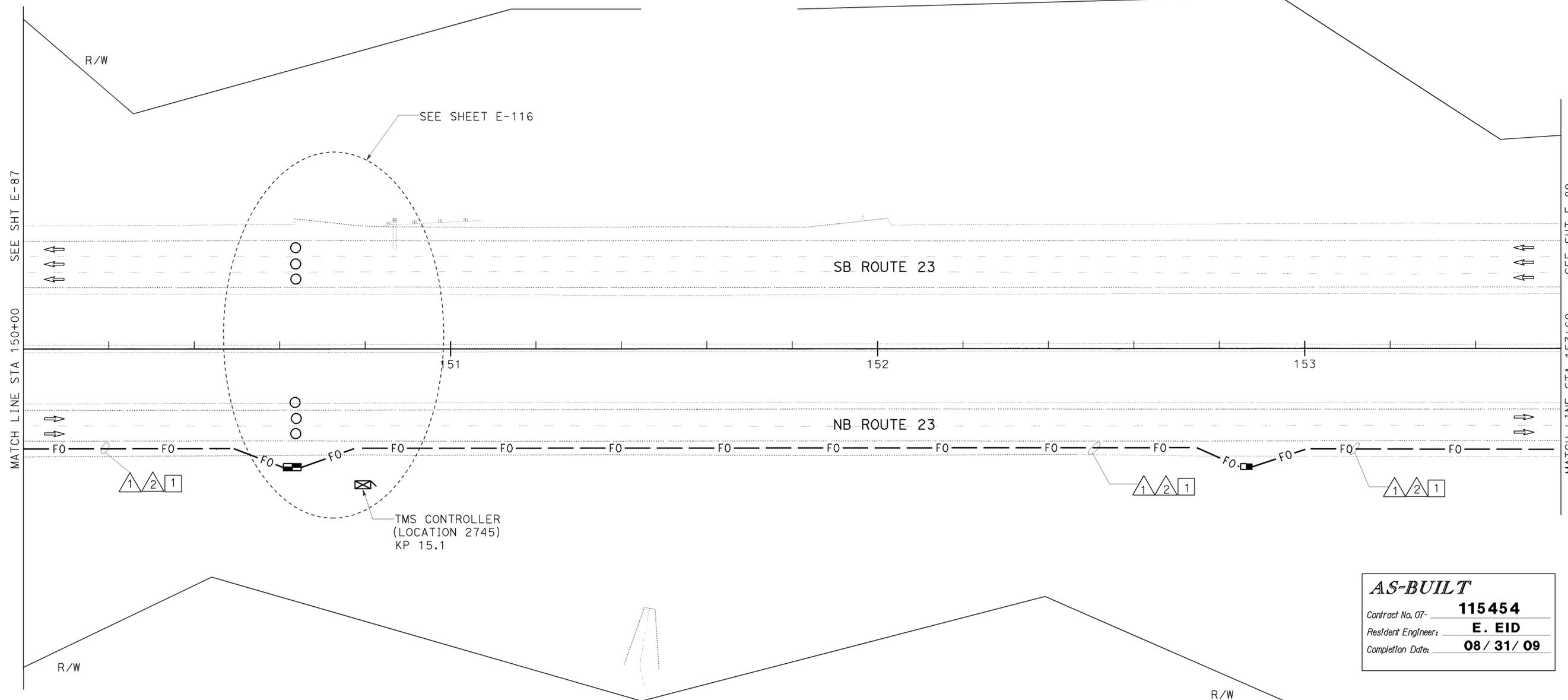
1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)								
CONDUIT/ CONDUCTOR	FUNCTION	RUN						
		1			2			
72SMFO CABLE	DATA	1						
72SMFO CABLE	VIDEO / DISTRIBUTION		1					
48SMFO CABLE	TRUNK LINE			1				
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1
CONDUIT SIZE		103			103			



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		601	849

Registered Electrical Engineer
 Jacqueline C. Tan
 7-14-03
 8-22-05
 PLANS APPROVAL DATE
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA
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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY

PROJECT NOTES; (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUITS IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK TYPE 1 CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 INSTALL 53C. INSTALL 1 DLC.
- 4 WORK INCLUDED IN ITEM FOR RMS (LOCATION 1572). SEE SHEET E-117.
- 5 INSTALL TYPE E LOOP DETECTOR. SEE SHEET E-134 FOR INSTALLATION DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN							
		1				2			
72SMFO CABLE	DATA	1							
72SMFO CABLE	VIDEO / DISTRIBUTION		1						
48SMFO CABLE	TRUNK LINE			1					
INNERDUCT (SIZE 25)		1	1	1	1	1	1	1	1
CONDUIT SIZE		103				103			



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		602	849

REGISTERED ELECTRICAL ENGINEER
 7-14-03
 8-22-05
 PLANS APPROVAL DATE

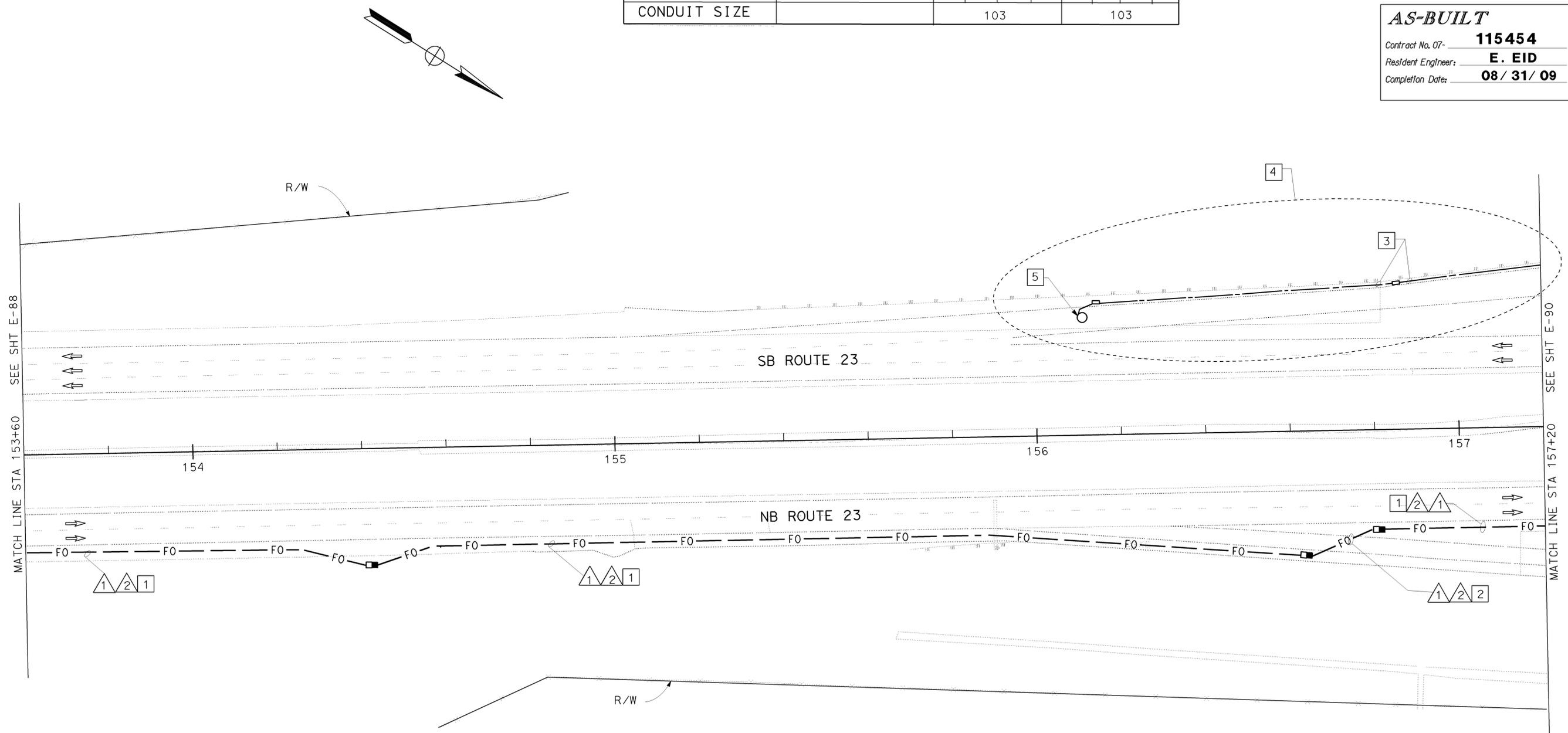
JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT

Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
COMMUNICATION SYSTEM ROUTING
 SCALE 1:500
E-89

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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	603	849

7-14-03
REGISTERED ELECTRICAL ENGINEER
8-22-05
PLANS APPROVAL DATE

JACQUELINE C. TAN
No. E015611
Exp. 12/31/05
ELECTRICAL
STATE OF CALIFORNIA

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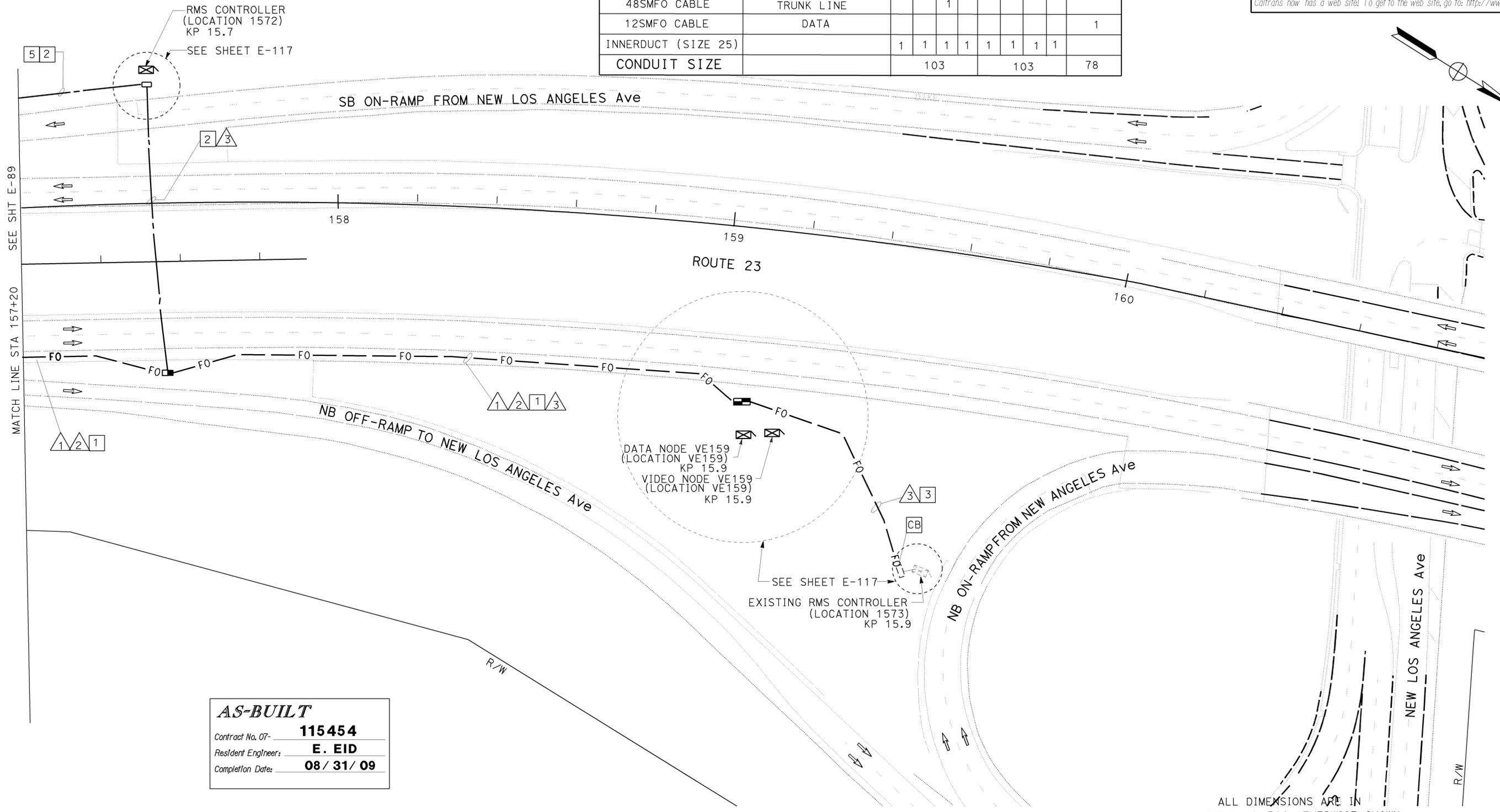
PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUIT(S) IN ASPHALT. SEE SHEET E-127 FOR DETAILS.
- 2 JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 TRENCH CONDUIT IN SOIL. SEE SHEET E-126 FOR DETAILS.
- 4 INSTALL 53C. INSTALL 1 DLC.
- 5 WORK INCLUDED IN ITEM FOR RMS (LOCATION 1572). SEE SHEET E-117.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN		
		1	2	3
72SMFO CABLE	DATA	1		
72SMFO CABLE	VIDEO / DISTRIBUTION	1		
48SMFO CABLE	TRUNK LINE		1	
12SMFO CABLE	DATA			1
INNERDUCT (SIZE 25)		1	1	1
CONDUIT SIZE		103	103	78

REVISIONS: DATE, REVISED BY, DATE, HKA, JT, CALCULATED/DESIGNED BY, CHECKED BY, PROJECT ENGINEER, HOSAKERE K. ANANTH, STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION, ITS DEVELOPMENT, Caltrans



AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

COMMUNICATION SYSTEM ROUTING
SCALE 1:500

E-90

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY. FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

FOR REDUCED PLANS ORIGINAL SCALE 15 IN MILLIMETERS

USERNAME => S110796
DGN FILE => 711545ua090.dgn

CU 07388

EA 115451

LAST REVISION: 00-00-00 DATE PLOTTED => 22-APR-2010 TIME PLOTTED => 10:04

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 CALCULATED/DESIGNED BY
 CHECKED BY
 HKA
 JT
 DATE
 REVISED BY
 DATE REVISED



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	604	849

REGISTERED ELECTRICAL ENGINEER DATE 7-14-03
 REGISTERED ELECTRICAL ENGINEER DATE 8-22-05
 PLANS APPROVAL DATE 12/31/05
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA
 JACQUELINE C. TAN
 REGISTERED PROFESSIONAL ENGINEER
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PROJECT NOTES: (THIS SHEET ONLY)

- 1 PORTABLE POWER PROVIDED BY OTHERS.
- 2 INSTALL 53C, MT.
- 3 INSTALL 53C IN SOIL. INSTALL 3 DLC AND 6 STC.
- 4 JACK 78C BENEATH ROADWAY. INSTALL 1 DLC AND 2 STC.
- 5 INSTALL 53C IN SOIL. INSTALL 1 DLC AND 2 STC.
- 7 JACK 78C BENEATH ROADWAY. INSTALL 12SMFO.
- 8 INSTALL 78C IN SOIL. INSTALL 12SMFO, 2 DLC AND 4 STC.
- 9 JACK 78C BENEATH ROADWAY. INSTALL 12SMFO, 2 DLC AND 4 STC.
- 10 INSTALL 2-78C IN SOIL. INSTALL 12SMFO, 6 DLC AND 12 STC.
- 11 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 12 INSTALL 78C IN SOIL. INSTALL 12SMFO, 3 DLC AND 6 STC.
- 13 INSTALL TYPE E LOOP DETECTORS AND AXLE SENSORS. SEE SHEET E-119 FOR DETAILS.
- 14 INSTALL STATE FURNISHED MODEL 334 CABINET ON NEW FOUNDATION. SEE SHEET E-135 FOR DETAILS.

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
AVC STATION
(LOCATION VE736)
 SCALE 1:500

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LAST REVISION
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 TIME PLOTTED => 10:04

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT
Caltrans

PROJECT ENGINEER
HOSAKERE K. ANANTH

REVISER BY DATE
HKA JT

DESIGNED BY CHECKED BY
CALCULATED BY

RAMP METER CONDUCTOR SCHEDULE									
AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8
#14	RAMP SIGNAL		3			3	3	3	
	SPARES		3			3	3	3	
	TOTAL		6			6	6	6	
#10	SIGNAL COMMON		1		1	1	1	1	
	METER- ON SIGN				2	2	2	2	2
	SPARES				3	3	3	3	3
DLC	TOTAL				5	6	6	6	5
	QUEUE DETECTOR					2	2	2	2
	DEMAND DETECTOR					4	4	4	
	PASSAGE DETECTOR					2	2	2	
	SURVEILLANCE DETECTOR	3		3		3	6		
12SMFO	COUNT DETECTOR	1		1		1	2		
	TOTAL	4		4		12	16	8	2
CONDUIT SIZE		78	78	78	78	2-78	2-78	2-78	78

NOTES: (THIS SHEET ONLY)

- SEE LIGHTING PLANS FOR SERVICE EQUIPMENT ENCLOSURE INSTALLATION.
- INSTALL 2#8 IN CONDUIT. SEE LIGHTING PLANS FOR CONDUIT INSTALLATION.
- INSTALL 1-120 V 30A CIRCUIT BREAKER FOR RMS CONTROLLER 1850 IN THE NEW SERVICE EQUIPMENT ENCLOSURE.
- TRENCH AND INSTALL 53C IN SOIL. INSTALL 2#8.
- TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-127 AND FOR DETAILS.
- JACK 78C CONDUIT BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS. INSTALL 2#8.
- INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FODM AND C-MIC IN CONTROLLER CABINET. SEE SHEET E-135 FOR DETAILS.
- SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- CONDUIT THROUGH WALL INCLUDED IN SOUNDWALL CONSTRUCTION PLANS.
- INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
- INSTALL METER-ON SIGN AND POLE. SEE SHEET E-134 FOR DETAILS.
- JACK CONDUIT BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- TRENCH AND INSTALL 78C IN SOIL. INSTALL 2#8. SEE E-127 FOR DETAILS.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	605	849

7-14-03
REGISTERED ELECTRICAL ENGINEER DATE

8-22-05
PLANS APPROVAL DATE

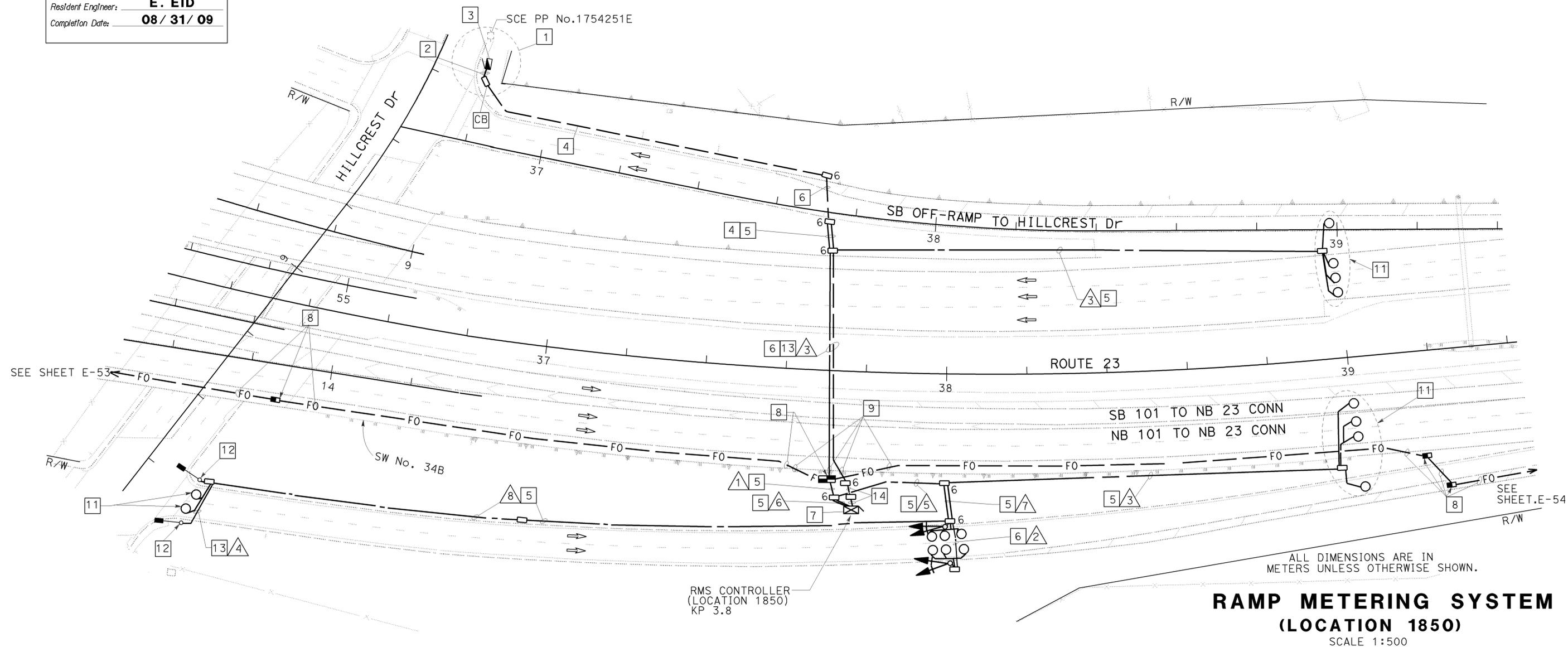
JACQUELINE C. TAN
No. E015611
Exp. 12/31/05
ELECTRICAL
STATE OF CALIFORNIA

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AS-BUILT

Contract No. 07- **115454**
Resident Engineer: **E. EID**
Completion Date: **08/31/09**



**RAMP METERING SYSTEM
(LOCATION 1850)
SCALE 1:500**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

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EA 115451

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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		607	849

REGISTERED ELECTRICAL ENGINEER DATE 7-14-03
 REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

8-22-05
 PLANS APPROVAL DATE

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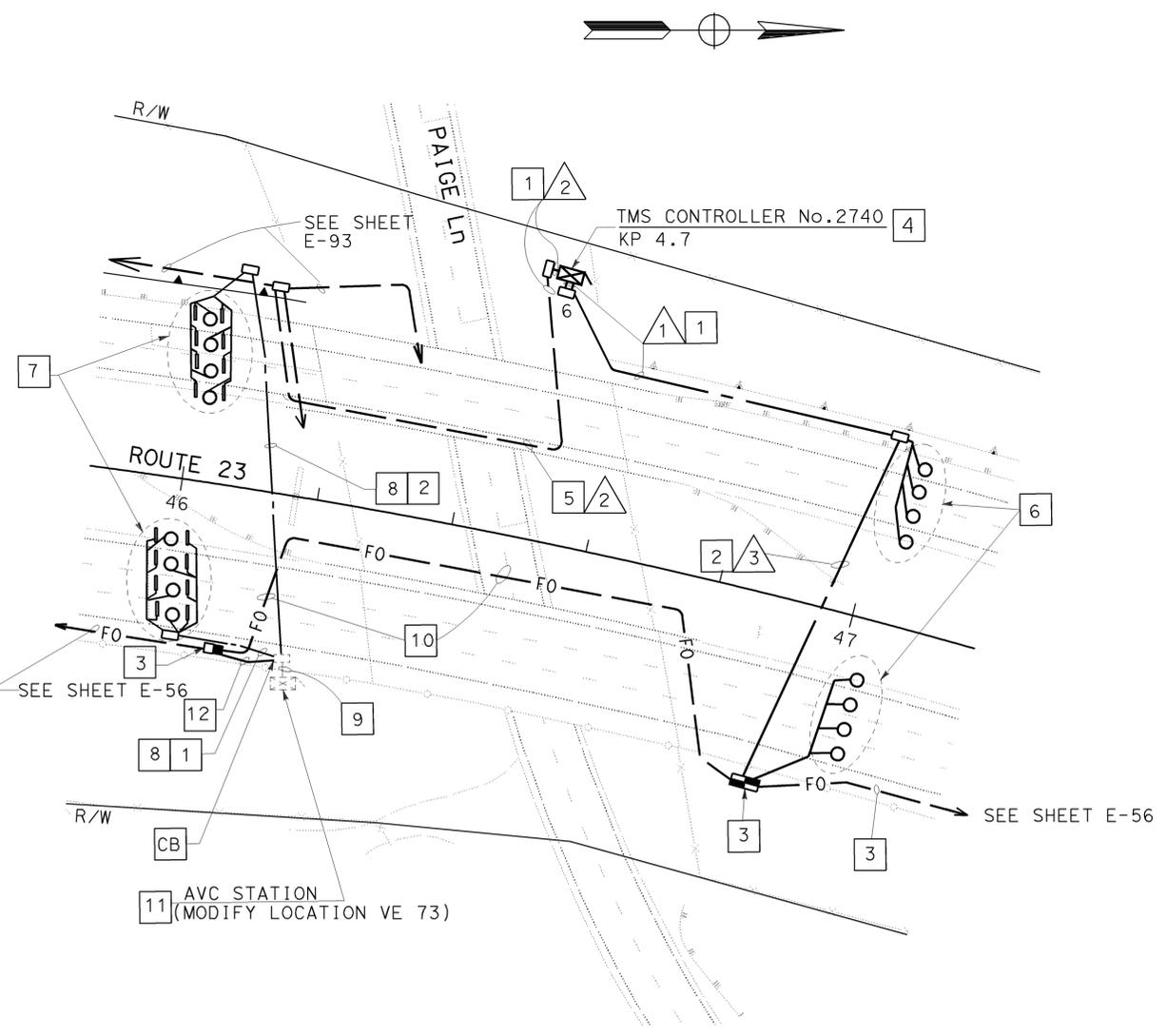
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN		
		1	2	3
12SMFO CABLE	DATA	1		1
# 8	POWER		2	
INNERDUCT (SIZE 25)		1		1
DLC	COUNT		8	4
CONDUIT SIZE		2-78	78	78

AS-BUILT

Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISIED BY
 DATE REVISIED
 CALCULATED/ DESIGNED BY
 CHECKED BY



PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-127, FOR DETAILS.
- 2 JACK CONDUIT BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 4 INSTALL STATE- FURNISHED MODEL 334 CABINET ON NEW FOUNDATION. CABINET TO INCLUDE STATE FURNISHED 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU. SEE SHEET E-121 AND E-122 FOR DETAILS.
- 5 UTILIZE CONDUIT INSTALLED IN BRIDGE GIRDER. SEE STRUCTURAL PLANS FOR DETAILS.
- 6 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR INSTALLATION DETAILS.
- 7 INSTALL TYPE E LOOP DETECTORS AND AXLE SENSORS. SEE SHEET E-119 FOR INSTALLATION DETAILS.
- 8 INSTALL 78C. INSTALL 4 DLC AND 8 SCREENED TRANSMISSION CABLES.
- 9 REMOVE dlc's AND SCREENED TRANSMISSION CABLES. INSTALL NEW 8 DLC AND 16 SCREENED TRANSMISSION CABLES.
- 10 INSTALL 12SMFO. CONDUIT INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 11 EXISTING AVC CONTROLLER CABINET. PORTABLE POWER AND MODIFICATION TO CABINET BY OTHERS.
- 12 INSTALL 53C IN SOIL. INSTALL 12SMFO.
13. EXISTING AVC STATION LOOPS AND AXLE SENSORS SHALL BE ABANDONED IN PLACE.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
MODIFY AVc STATION (LOCATION VE 73)
TRAFFIC MONITORING STATION (LOCATION 2740)
 SCALE 1:500

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
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USERNAME => S110796
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CU 07388

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E-94

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Caltrans
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 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY

RAMP METER CONDUCTOR SCHEDULE											
AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9	10
#14	RAMP SIGNAL							3	3		
	SPARES							3	3		
#10	TOTAL							6	6		
	SIGNAL COMMON	1	1					1	1		
	METER ON SIGN	2	2								
	SPARES	3	3								
DLC	TOTAL	6	6					1	1		
	QUEUE DETECTOR		1								
	DEMAND DETECTOR					1		1	1		
	PASSAGE DETECTOR					1		1	1		
	SURVEILLANCE DETECTOR			3		3		2	3		3
	COUNT DETECTOR			1		1	1	2	1	1	3
12SMFO	TOTAL		1	4		6	1	7	6	1	3
	DATA			1	1	1	1	1	1		1
CONDUIT SIZE		78	78	53	78	78	78	103	78	78	78

PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 2 INSTALL 2-30 A, 120 V, 1P CIRCUIT BREAKERS IN THE EXISTING SERVICE EQUIPMENT ENCLOSURE FOR RMS CONTROLLERS 1744 AND 1745.
- 3 TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-127 AND FOR DETAILS.
- 4 JACK TYPE 1 CONDUITS BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 5 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN THE CONTROLLER CABINET. SEE SHEET E-121 AND E-122 FOR DETAILS.
- 6 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 7 JACK 78C BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS. INSTALL 2#8.
- 8 INSTALL 53C IN SOIL. INSTALL 12SMFO.
- 9 INSTALL 53C IN SOIL. INSTALL 2#8.
- 10 JACK 78C. INSTALL 4#8.
- 11 INSTALL 78C IN SOIL. INSTALL 4#8.
- 12 INSTALL 4#8 IN EXISTING CONDUIT.

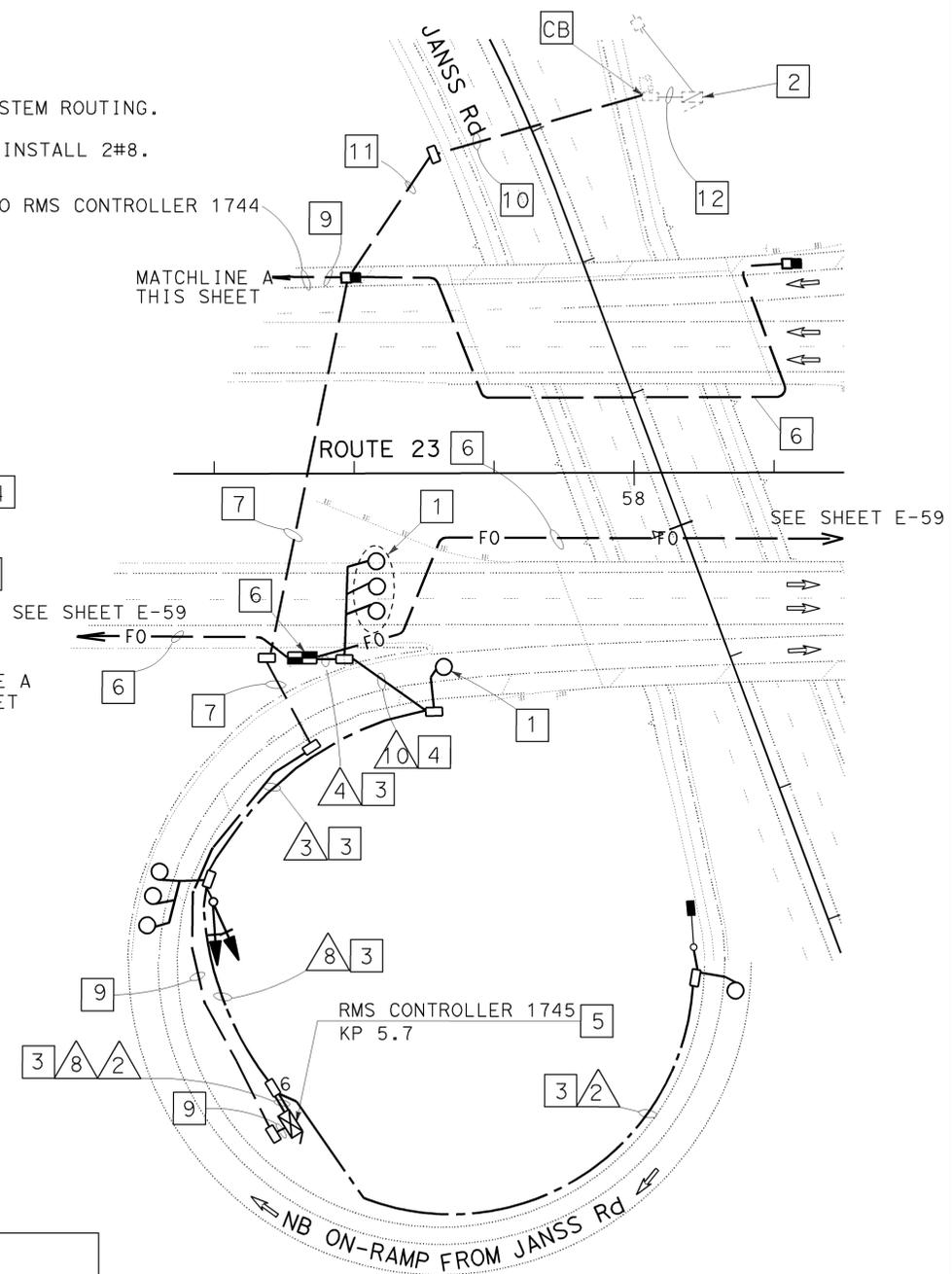
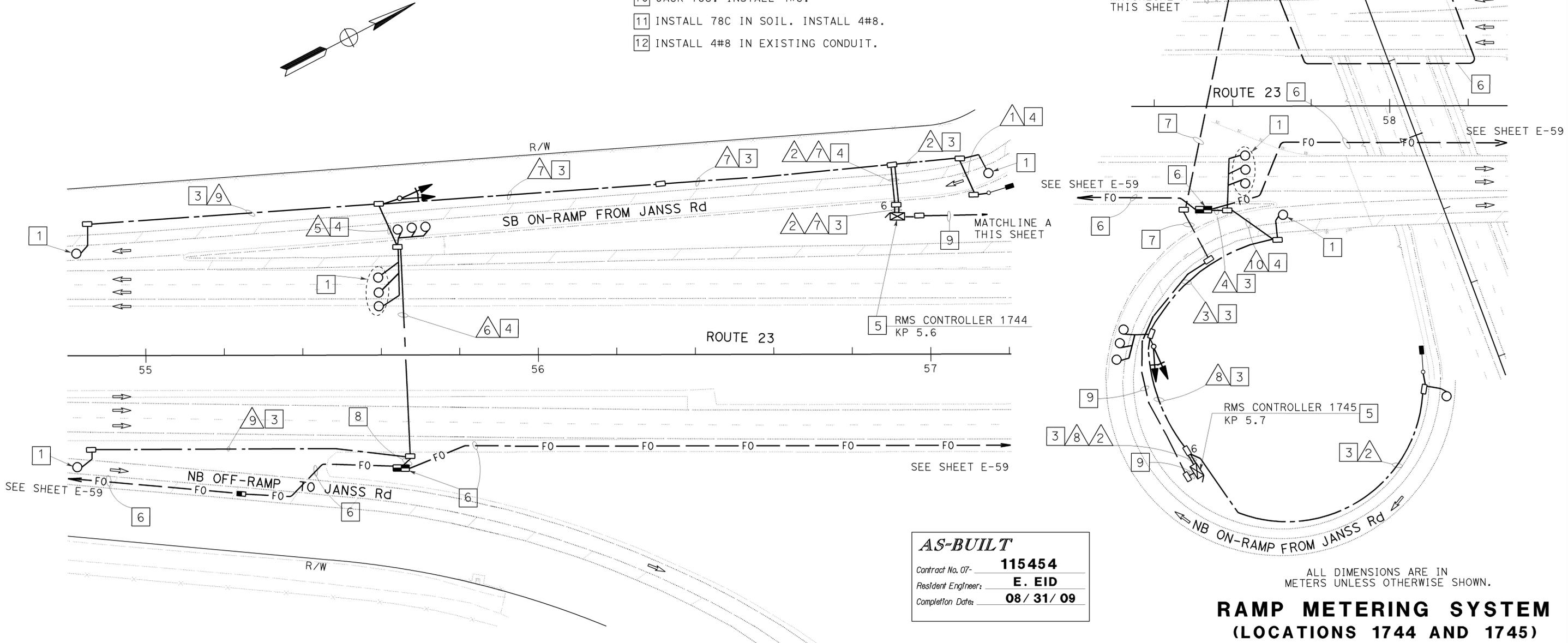


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	608	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER DATE
 8-22-05
 PLANS APPROVAL DATE

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
RAMP METERING SYSTEM
 (LOCATIONS 1744 AND 1745)
 SCALE 1:500
E-95

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



LAST REVISION
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

PROJECT ENGINEER
HOSAKERE K. ANANTH

CALCULATED/DESIGNED BY
CHECKED BY

HKA
JT

DATE REVISED BY
DATE REVISED

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUIT/ CONDUCTOR	FUNCTION	RUN			
		1	2	3	4
12SMFO CABLE	DATA	1		1	
INNERDUCT (SIZE 25)		1		1	
DLC	COUNT		3		6
# 4	POWER				2
CONDUIT SIZE		53	78	2-78	78



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		610	849

REGISTERED ELECTRICAL ENGINEER DATE
Jacqueline C. Tan 7-14-03

PLANS APPROVAL DATE
8-22-05

REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. TAN
No. E015611
Exp. 12/31/05
ELECTRICAL
STATE OF CALIFORNIA

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AS-BUILT

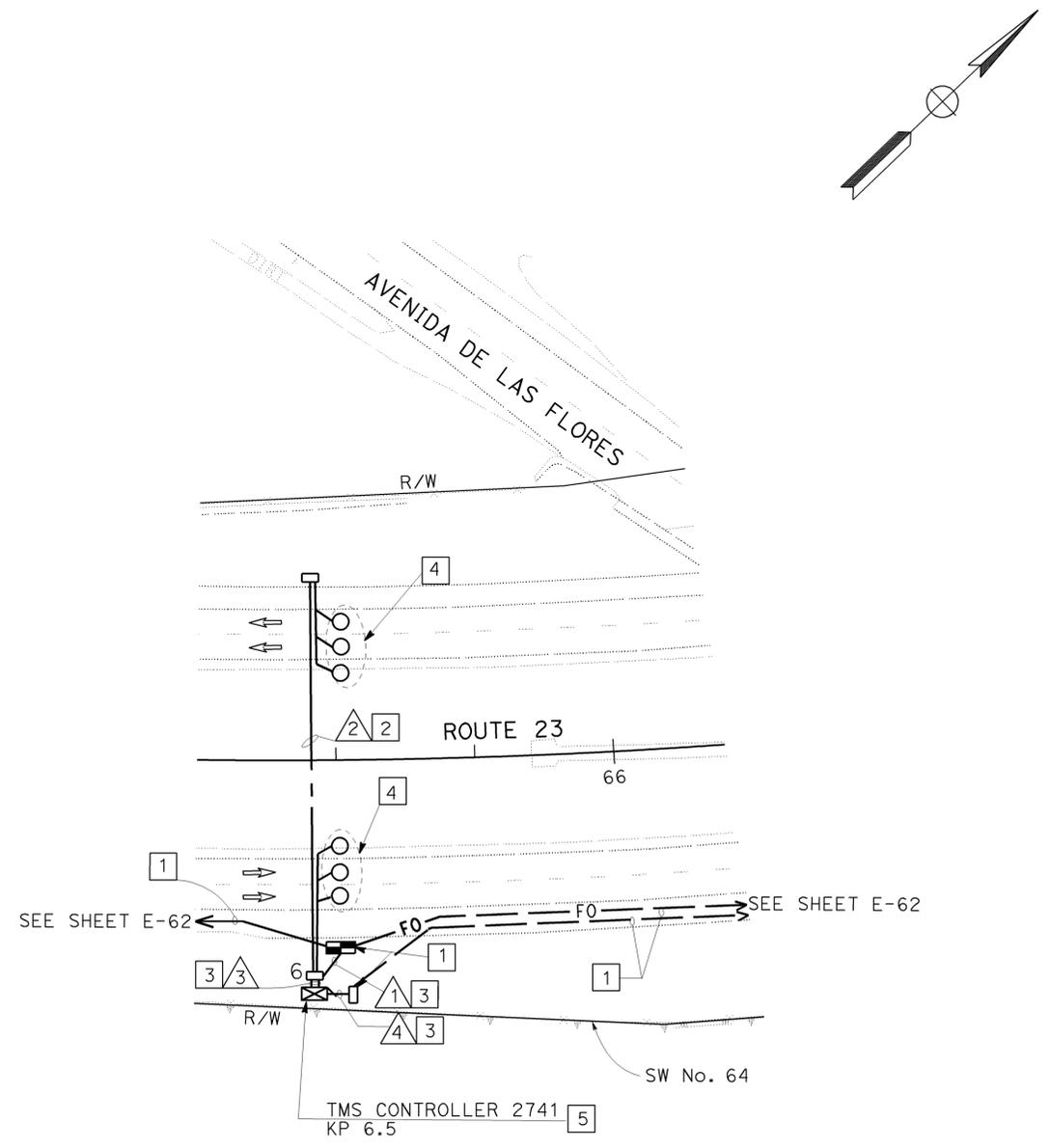
Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**

PROJECT NOTES: (THIS SHEET ONLY)

- 1 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING PLANS.
- 2 JACK TYPE 1 CONDUIT BENEATH THE ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEETS E-127 FOR DETAILS.
- 4 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 5 INSTALL STATE FURNISHED MODEL 334 CABINET ON NEW FOUNDATION. CABINET TO INCLUDE STATE FURNISHED MODEL 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU. SEE SHEET E-121 AND E-122 FOR DETAILS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

**TRAFFIC MONITORING SYSTEM
(LOCATION 2741)**

SCALE 1:500

E-97

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

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DGN FILE => 711545ua097.dgn

CU 07388

EA 115451

LAST REVISION
00-00-00 DATE PLOTTED => 22-APR-2010
TIME PLOTTED => 10:05

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE
 DATE
 REVISIONS

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)				
CONDUCTOR TYPE	FUNCTION	RUN		
		1	2	3
12SMFO CABLE	VIDEO/VOICE		2	
SEE SHEET E-125	CCTV CONTROL CABLE			1
#4	POWER	2		
	SIZE 25 INNERDUCT		2	
CONDUIT SIZE		78	78	78

PROJECT NOTES: (THIS SHEET ONLY)

- 1 SEE SHEET C-6 FOR CCTV MAINTENANCE TURNOUT DETAILS.
- 2 TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-127 FOR DETAILS.
- 3 INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. INCLUDE CAMERA CONTROL RECEIVER, FOCM, FDU AND SINGLE VIDEO TRANSMITTER. SEE SHEET E-121 FOR DETAILS.
- 4 INSTALL CCTV CAMERA POLE ON NEW FOUNDATION. SEE STANDARD PLANS ES-16A AND SHEET E-125. INSTALL CCTV CAMERA ASSEMBLY WITH PAN/TILT UNIT ON THE POLE. SEE C-6 FOR EXACT POLE LOCATION AND TURNOUT DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 6 SEE SHEET E-135 FOR MODEL 334-CCTV CABINET INSTALLATION DETAILS.



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		611	849

REGISTERED ELECTRICAL ENGINEER
Jacqueline C. Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER DATE

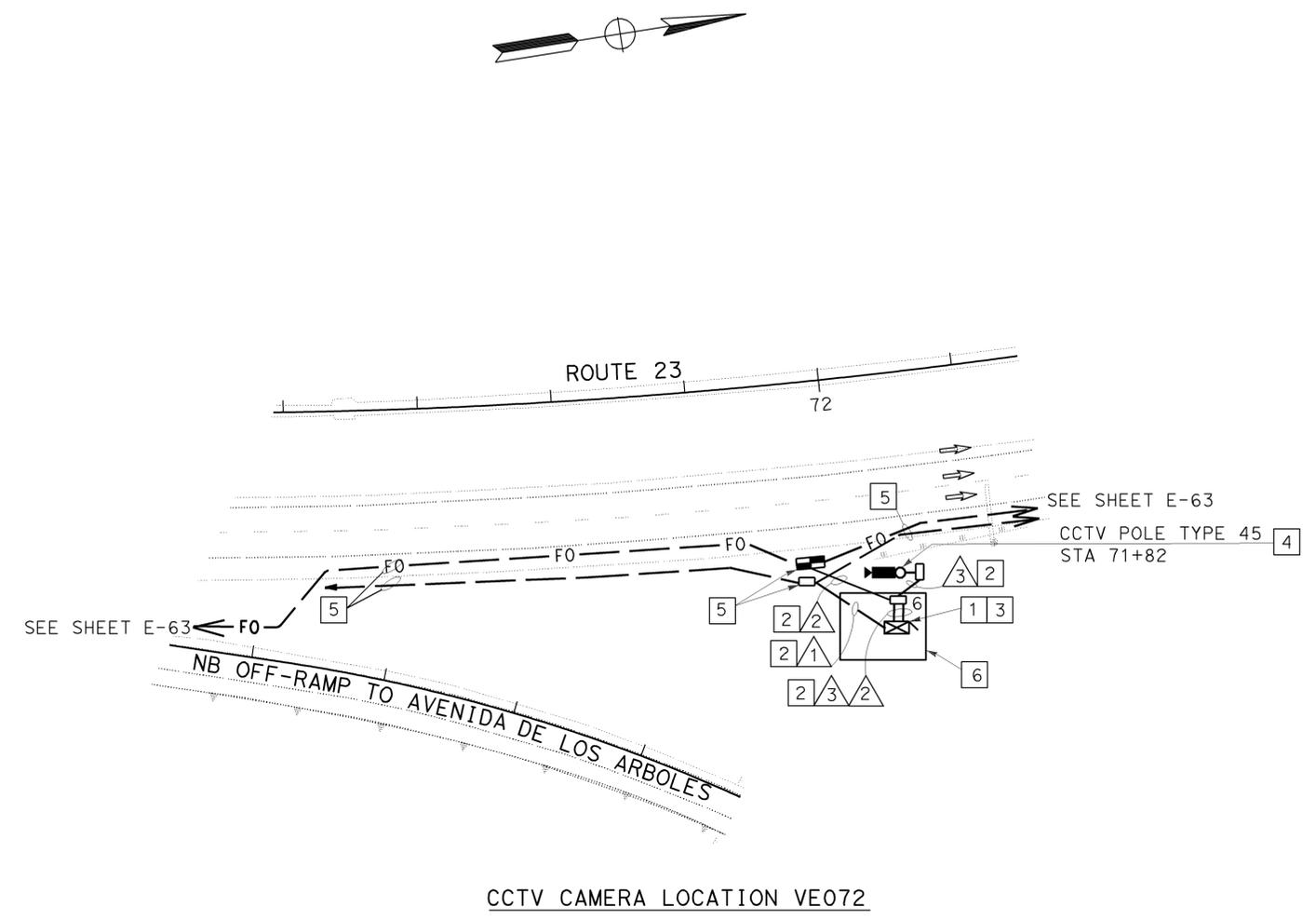
PLANS APPROVAL DATE
 8-22-05

REGISTERED PROFESSIONAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT	
Contract No. 07-	115454
Resident Engineer:	E. EID
Completion Date:	08 / 31 / 09



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



USERNAME => S110796
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA JT
 DATE REVISED BY: DATE REVISED
 CALCULATED/DESIGNED BY: CHECKED BY



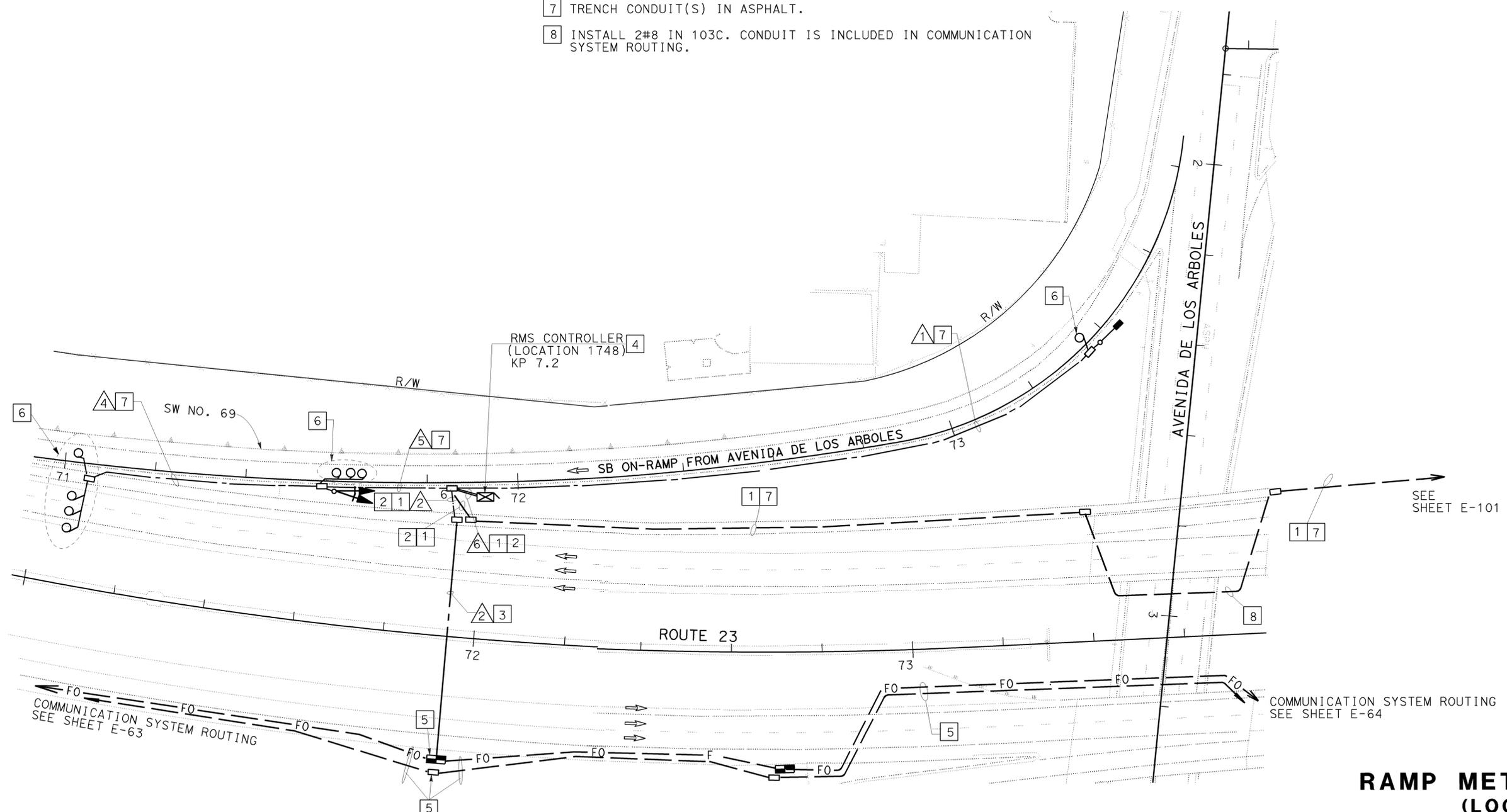
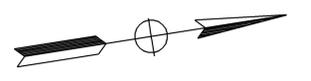
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		612	849

REGISTERED ELECTRICAL ENGINEER: *Jacqueline C. Tan* 7-14-03
 REGISTERED ELECTRICAL ENGINEER DATE: 8-22-05
 PLANS APPROVAL DATE: 12/31/05
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA
 To get to the web site, go to: <http://www.dot.ca.gov>

AWG OR CABLE	CONDUCTOR RUN	1	2	4	5	6
#14	RAMP SIGNAL				3	3
	SPARES				3	3
#10	TOTAL				6	6
	SIGNAL COMMON	1			1	1
	METER ON SIGN	2				2
	SPARES	3				3
DLC	TOTAL	6			1	6
	QUEUE DETECTOR	1				1
	DEMAND DETECTOR				1	1
	PASSAGE DETECTOR				1	1
	SURVEILLANCE DETECTOR			3	3	3
	COUNT DETECTOR			1	1	1
12SMFO	TOTAL	1		4	6	7
	DATA		1			1
CONDUIT SIZE		78	78	53	78	2-78

PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL 78C, 2#8.
- 2 TRENCH CONDUIT(S) IN SOIL.
- 3 JACK TYPE 1 CONDUIT(S) BENEATH ROADWAY.
- 4 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-121 AND E-122 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 6 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 7 TRENCH CONDUIT(S) IN ASPHALT.
- 8 INSTALL 2#8 IN 103C. CONDUIT IS INCLUDED IN COMMUNICATION SYSTEM ROUTING.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

**RAMP METERING SYSTEM
 (LOCATION 1748)**
 SCALE 1:500

E-99

FOR REDUCED PLANS ORIGINAL SCALE 15 IN MILLIMETERS

USERNAME => S110796
 DGN FILE => 711545ua099.dgn

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DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:06
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	613	849



REGISTERED ELECTRICAL ENGINEER
Jacqueline C. Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER DATE

8-22-05
 PLANS APPROVAL DATE

No. E015611
 12/31/05
 Exp. ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

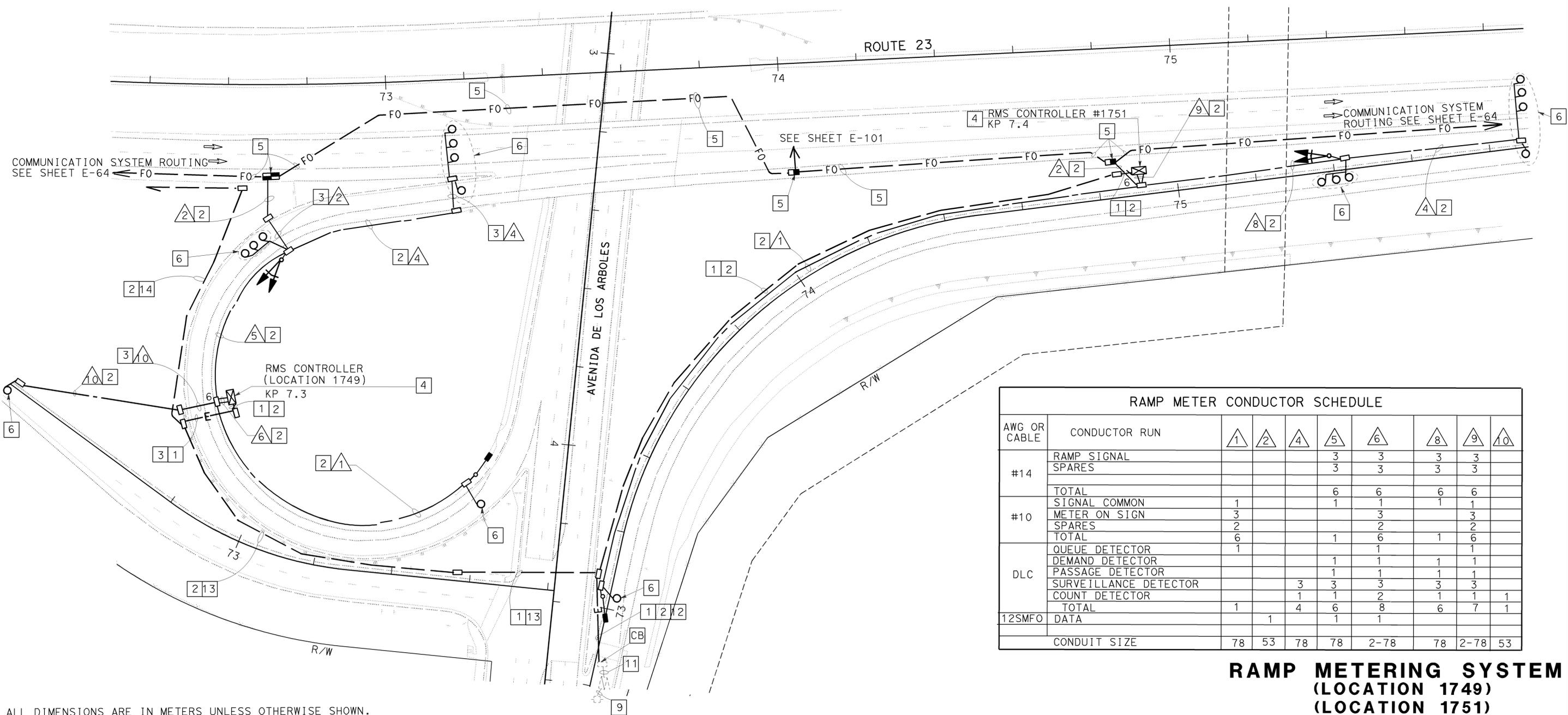
Completion Date: **08/31/09**

PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL 78C, 2#6.
- 2 TRENCH CONDUIT(S) IN SOIL.
- 3 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 4 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-121 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 6 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 9 INSTALL 120 V, 1P, 4-20 A CIRCUIT BREAKERS IN EXISTING SERVICE EQUIPMENT ENCLOSURE. ONE EACH FOR RMS CONTROLLERS 1749 AND 1751, TMS CONTROLLER 2741, AND CCTV CAMERA VE072.
- 11 INSTALL 4#6, 4#4 IN EXISTING CONDUIT.
- 12 INSTALL 78C. INSTALL 4#6, 4#4.
- 13 INSTALL 78C. INSTALL 2#6, 4#4.
- 14 INSTALL 78C. INSTALL 4#4.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT
 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISIONS BY DATE REVISIONS BY
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 PROJECT ENGINEER: HOSAKERE K. ANANTH
 HOSAKERE K. ANANTH
 HOSAKERE K. ANANTH
 HOSAKERE K. ANANTH



AWG OR CABLE	CONDUCTOR RUN	1	2	4	5	6	8	9	10
#14	RAMP SIGNAL				3	3	3	3	
	SPARES				3	3	3	3	
#10	TOTAL				6	6	6	6	
	SIGNAL COMMON	1			1	1	1	1	
	METER ON SIGN	3			3			3	
	SPARES	2			2			2	
DLC	TOTAL	6			1	6	1	6	
	QUEUE DETECTOR	1				1		1	
	DEMAND DETECTOR				1	1	1	1	
	PASSAGE DETECTOR				1	1	1	1	
	SURVEILLANCE DETECTOR				3	3	3	3	
12SMFO	COUNT DETECTOR			1	1	2	1	1	1
	TOTAL	1		4	6	8	6	7	1
	DATA		1		1				
	CONDUIT SIZE	78	53	78	78	2-78	78	2-78	53

RAMP METERING SYSTEM
(LOCATION 1749)
(LOCATION 1751)
 SCALE 1:500
E-100

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ITS DEVELOPMENT

PROJECT ENGINEER
 HOSAKERE K. ANANTH

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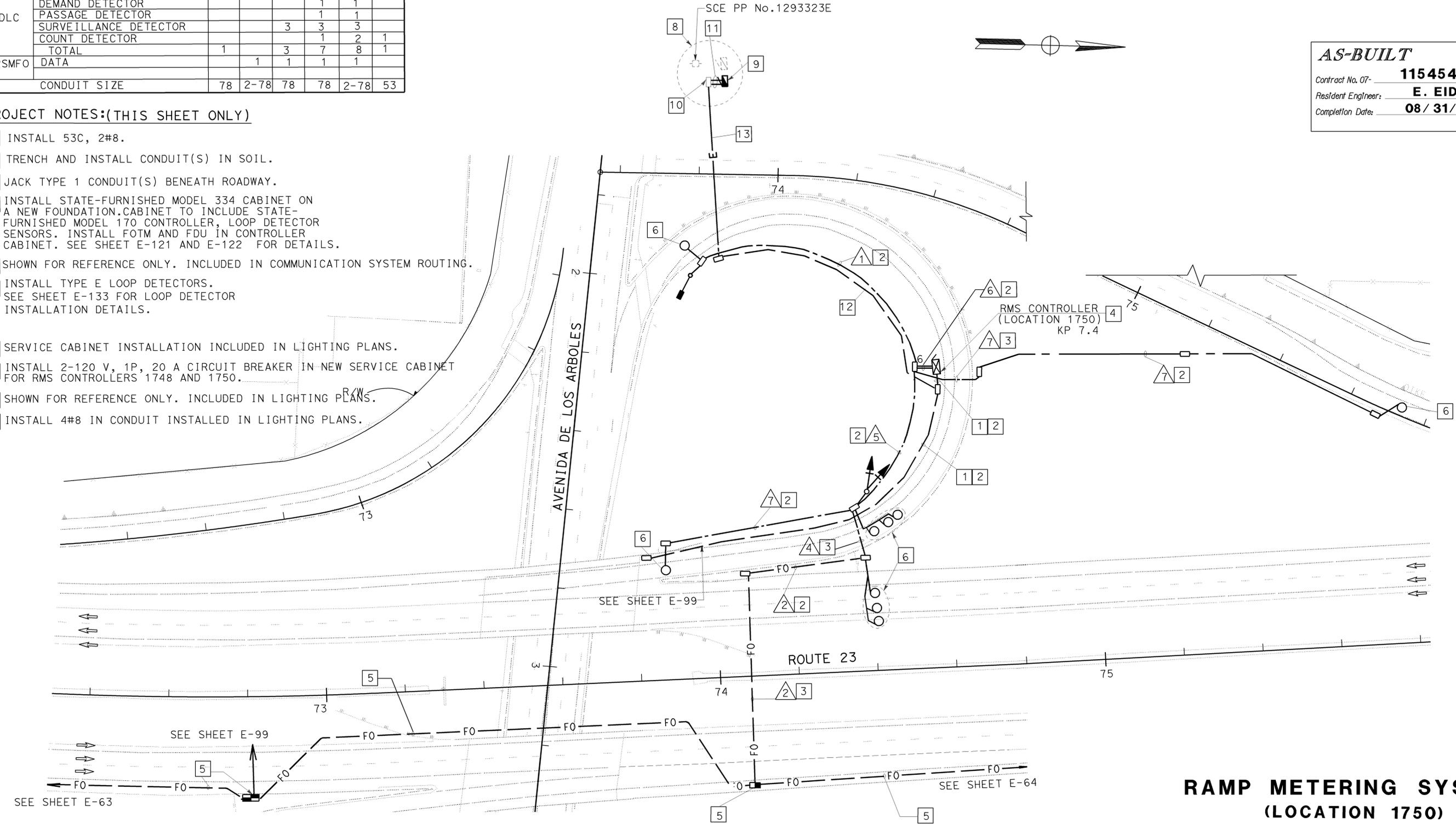
HKA JT

DATE REVISED BY
 DATE REVISED

RAMP METER CONDUCTOR SCHEDULE							
AWG OR CABLE	CONDUCTOR RUN	①	②	④	⑤	⑥	⑦
#14	RAMP SIGNAL				3	3	
	SPARES				3	3	
	TOTAL				6	6	
#10	SIGNAL COMMON	1			1	1	
	METER ON SIGN	2				2	
	SPARES	3				3	
	TOTAL	6			1	6	
DLC	QUEUE DETECTOR	1			1	1	
	DEMAND DETECTOR				1	1	
	PASSAGE DETECTOR				1	1	
	SURVEILLANCE DETECTOR			3	3	3	
	COUNT DETECTOR				1	2	1
	TOTAL	1		3	7	8	1
12SMFO	DATA		1	1	1	1	
	CONDUIT SIZE	78	2-78	78	78	2-78	53

PROJECT NOTES:(THIS SHEET ONLY)

- 1 INSTALL 53C, 2#8.
- 2 TRENCH AND INSTALL CONDUIT(S) IN SOIL.
- 3 JACK TYPE 1 CONDUIT(S) BENEATH ROADWAY.
- 4 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-121 AND E-122 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 6 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 8 SERVICE CABINET INSTALLATION INCLUDED IN LIGHTING PLANS.
- 9 INSTALL 2-120 V, 1P, 20 A CIRCUIT BREAKER IN NEW SERVICE CABINET FOR RMS CONTROLLERS 1748 AND 1750.
- 10 SHOWN FOR REFERENCE ONLY. INCLUDED IN LIGHTING PLANS.
- 11 INSTALL 4#8 IN CONDUIT INSTALLED IN LIGHTING PLANS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	614	849

Caltrans
Metric

Jacqueline C. Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER

8-22-05
 PLANS APPROVAL DATE

JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**

**RAMP METERING SYSTEM
 (LOCATION 1750)**

SCALE 1:500

E-101

CU 07388

EA 115451

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 00-00-00 DATE PLOTTED => 22-APR-2010
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 PROJECT ENGINEER
 HOSAKERE K. ANANTH
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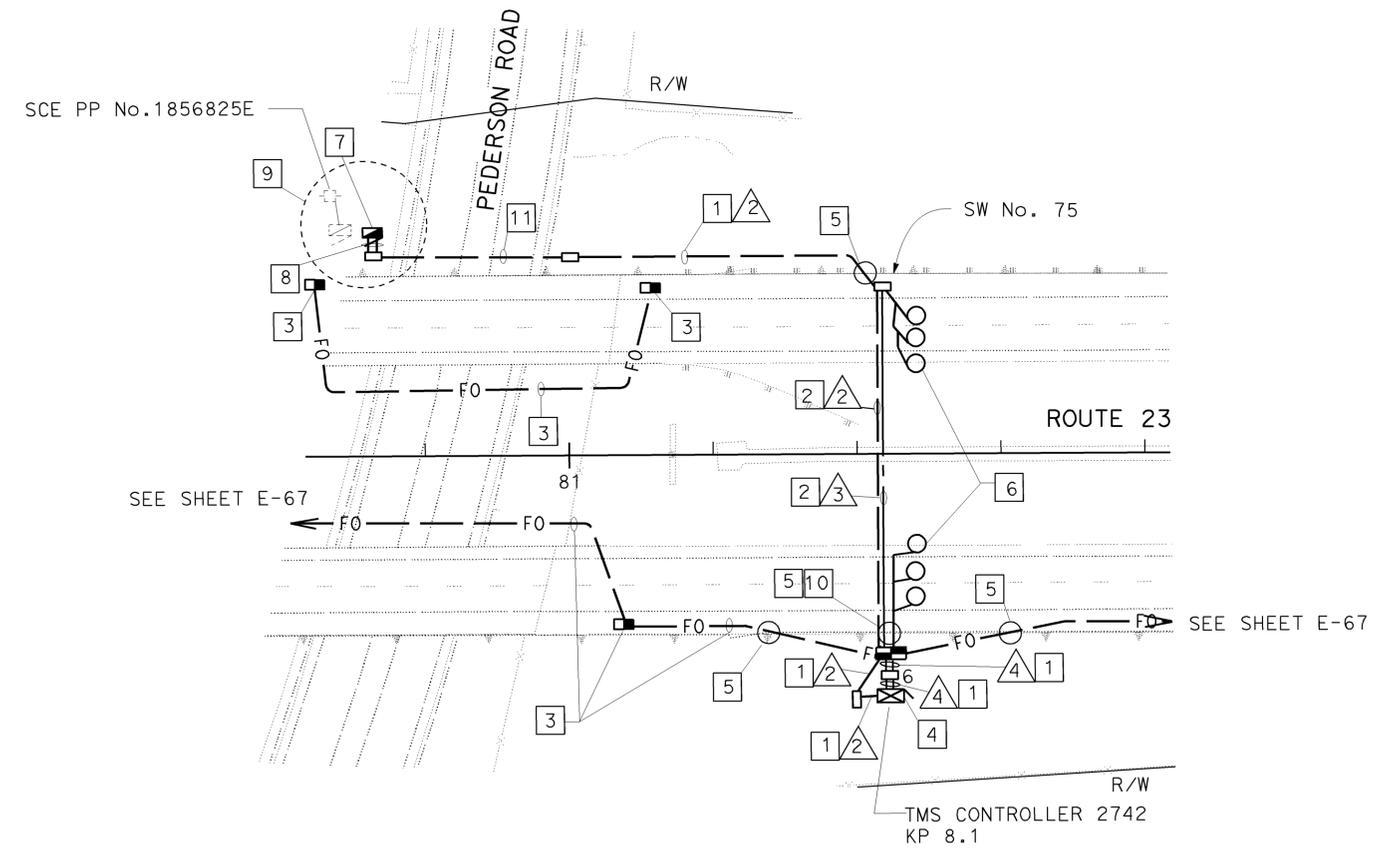


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	615	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA
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CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT/ CONDUCTOR	FUNCTION	RUN			
		1	2	3	4
12SMFO CABLE	DATA	1			1
2 # 8	TMS CONTROLLER POWER		1		
DLC	COUNT			3	6
CONDUIT SIZE		78	78	78	2-78



PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH CONDUIT IN SOIL.
- 2 JACK CONDUITS BENEATH ROADWAY.
- 3 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 4 INSTALL STATE FURNISHED MODEL 334 CABINET ON NEW FOUNDATION. CABINET TO INCLUDE STATE FURNISHED MODEL 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU. SEE SHEET E-121 AND E-122 FOR DETAILS.
- 5 INSTALL SLEEVE DURING SOUNDWALL CONSTRUCTION FOR SUBSEQUENT INSTALLATION OF CONDUIT.
- 6 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR INSTALLATION DETAILS.
- 7 INSTALL 1- 120 V, 1P, 20 A CIRCUIT BREAKER IN NEW SERVICE CABINET.
- 8 INSTALL 2#8. CONDUIT INCLUDED IN LIGHTING PLANS.
- 9 SERVICE EQUIPMENT ENCLOSURE INSTALLATION INCLUDED IN LIGHTING PLANS.
- 10 CUTOUT FOR A DOOR IN SOUNDWALL SHOWN ON CIVIL PLANS.
- 11 INSTALL 2#8. CONDUIT INCLUDED IN LIGHTING PLAN SHEET E-14.

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

**TRAFFIC MONITORING STATION
 (LOCATION 2742)**

SCALE 1:500

E-102

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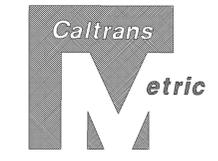


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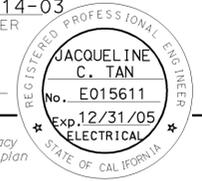
EA 115451

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 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:07



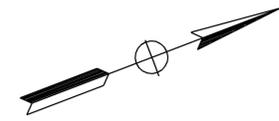
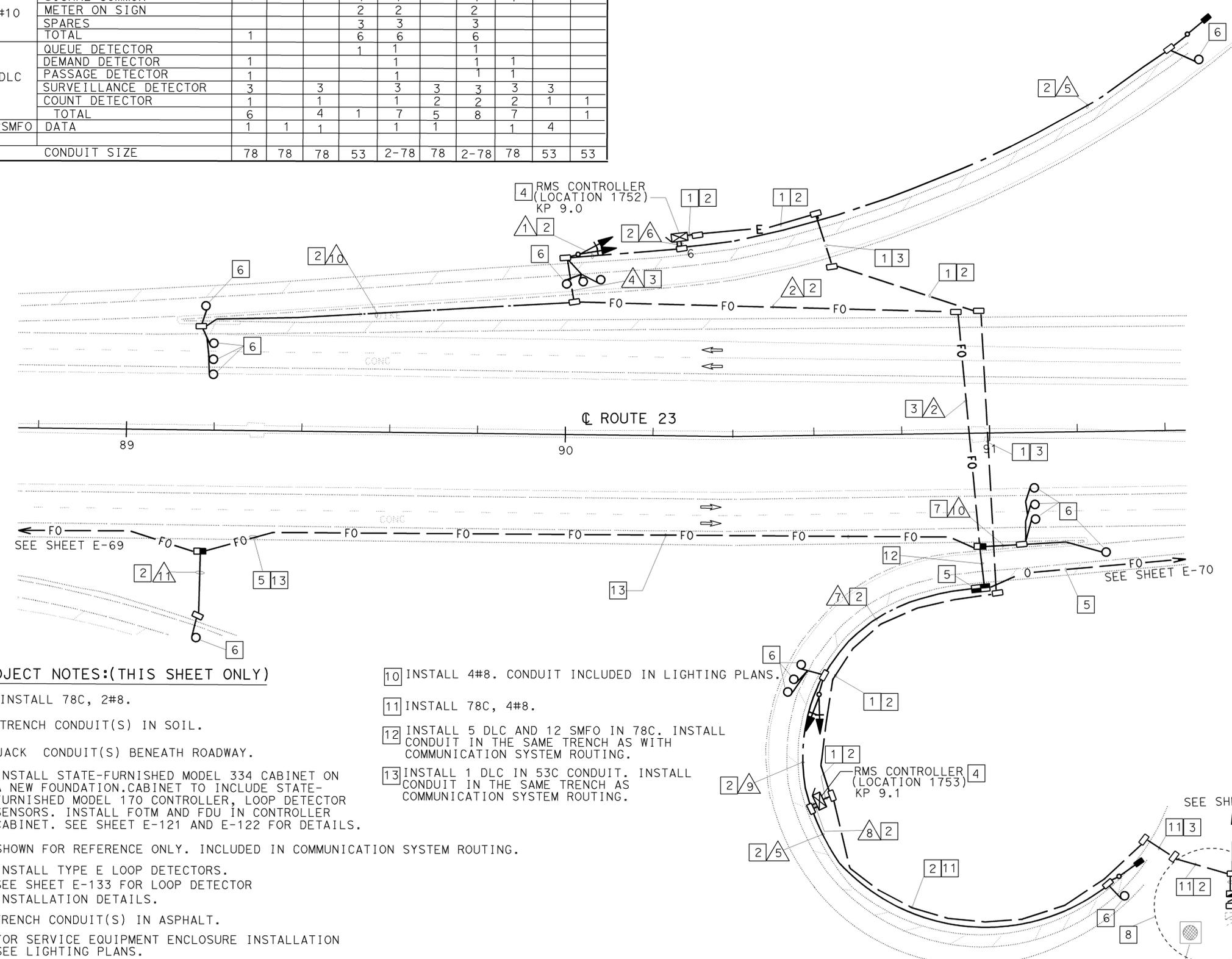
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	616	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE
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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

AWG OR CABLE	CONDUCTOR RUN	1	2	4	5	6	7	8	9	10	11
#14	RAMP SIGNAL	3				3		3	3		
	SPARES	3				3		3	3		
	TOTAL	6				6		6	6		
#10	SIGNAL COMMON	1			1	1		1	1		
	METER ON SIGN				2	2		2			
	SPARES				3	3		3			
	TOTAL	1			6	6		6			
DLC	QUEUE DETECTOR				1	1		1			
	DEMAND DETECTOR	1			1	1		1	1		
	PASSAGE DETECTOR	1			1	1		1	1		
	SURVEILLANCE DETECTOR	3		3	3	3		3	3	3	
	COUNT DETECTOR	1		1	1	2		2	2	1	1
	TOTAL	6		4	1	7	5		8	7	1
12SMFO	DATA	1	1	1		1			1	4	
	CONDUIT SIZE	78	78	78	53	2-78	78	2-78	78	53	53



PROJECT NOTES:(THIS SHEET ONLY)

- 1) INSTALL 78C, 2#8.
- 2) TRENCH CONDUIT(S) IN SOIL.
- 3) JACK CONDUIT(S) BENEATH ROADWAY.
- 4) INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-121 AND E-122 FOR DETAILS.
- 5) SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 6) INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 7) TRENCH CONDUIT(S) IN ASPHALT.
- 8) FOR SERVICE EQUIPMENT ENCLOSURE INSTALLATION SEE LIGHTING PLANS.
- 9) INSTALL 2-120 V, 1P, 20 A CIRCUIT BREAKERS IN SERVICE EQUIPMENT ENCLOSURE. ONE EACH FOR RMS CONTROLLERS 1752 AND 1753.
- 10) INSTALL 4#8. CONDUIT INCLUDED IN LIGHTING PLANS.
- 11) INSTALL 78C, 4#8.
- 12) INSTALL 5 DLC AND 12 SMFO IN 78C. INSTALL CONDUIT IN THE SAME TRENCH AS WITH COMMUNICATION SYSTEM ROUTING.
- 13) INSTALL 1 DLC IN 53C CONDUIT. INSTALL CONDUIT IN THE SAME TRENCH AS COMMUNICATION SYSTEM ROUTING.

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**RAMP METERING SYSTEM
 (LOCATION 1752)
 (LOCATION 1753)**

SCALE 1:500

E-103

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 PROJECT ENGINEER
 HOSAKERE K. ANANTH

CALCULATED/DESIGNED BY
 CHECKED BY
 HKA
 JT
 DATE
 REVISOR
 DATE REVISOR

LAST REVISION
 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:10:07
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CU 07388

EA 115451

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISED BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY

PROJECT NOTES: (THIS SHEET ONLY)

- 1 TRENCH AND INSTALL CONDUIT(S) IN SOIL.
- 2 JACK TYPE 1 CONDUIT(S) BENEATH ROADWAY.
- 3 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-121 FOR DETAILS.
- 4 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 5 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 6 INSTALL CONDUIT(S) IN TRENCH IN ASPHALT. SEE SHEET E-126 FOR DETAILS.
- 7 SERVICE EQUIPMENT ENCLOSURE INSTALLATION INCLUDED IN LIGHTING PLANS.
- 8 INSTALL 1-120 V, 1P, 20 A CIRCUIT BREAKER IN SERVICE EQUIPMENT ENCLOSURE FOR RMS 1755.
- 9 INSTALL 2#8. CONDUIT INCLUDED IN LIGHTING PLANS.
- 10 SHOWN FOR REFERENCE ONLY. INCLUDED IN LIGHTING PLANS.

RAMP METER CONDUCTOR SCHEDULE									
AWG OR CABLE	CONDUCTOR RUN	1	2	4	5	6	7	8	9
#14	RAMP SIGNAL				3			3	
	SPARES				3			3	
	TOTAL				6			6	
#10	SIGNAL COMMON	1			1			1	
	METER ON SIGN	2						2	
	SPARES	3						3	
	TOTAL	6			1			6	
DLC	QUEUE DETECTOR	1						1	
	DEMAND DETECTOR				1			1	
	PASSAGE DETECTOR				1			1	
	SURVEILLANCE DETECTOR		3	3	3	3		3	
	COUNT DETECTOR		1	1	1	1		1	1
	TOTAL	1	4	4	6	4		7	1
12SMFO #8	DATA			1	1	1		1	
	RAMP SIGNAL POWER						2		
	CONDUIT SIZE	78	53	2-78	78	78	78	2-78	53



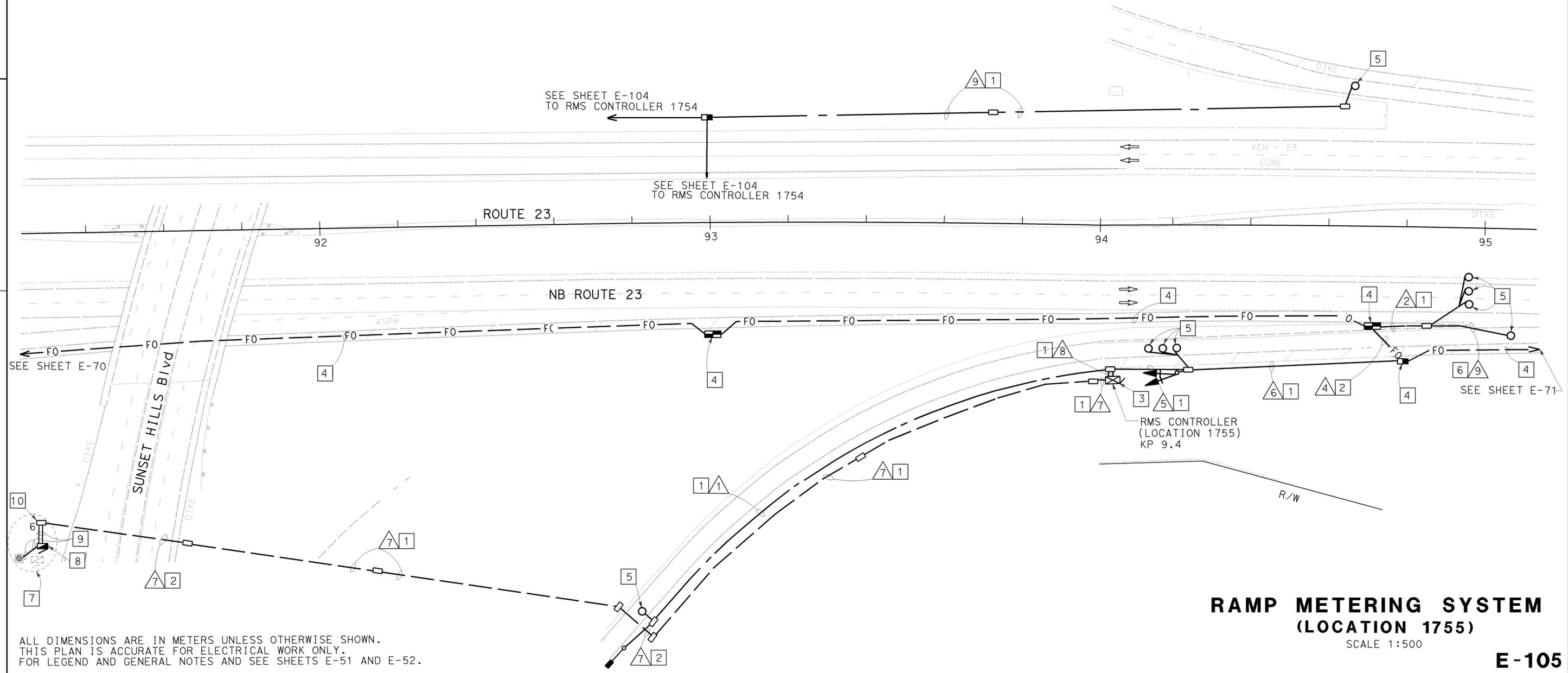
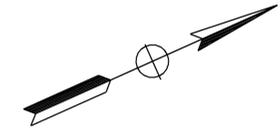
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		618	849

7-14-03
 REGISTERED ELECTRICAL ENGINEER DATE
 8-22-05
 PLANS APPROVAL DATE

JACQUELINE C. TAN
 No. E015611
 12/31/05
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA

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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**



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USERNAME => S110796
 DGN FILE => 711545ua105.dgn

CU 07388

EA 115451

E-105

DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:07

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 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
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 CHECKED BY
 DATE REVISOR BY
 DATE REVISOR BY

RAMP METER CONDUCTOR SCHEDULE								
AWG OR CABLE	CONDUCTOR RUN	1	2	4	5	6	7	8
#14	RAMP SIGNAL				3	3		3
	SPARES				3	3		3
	TOTAL				6	6		6
#10	SIGNAL COMMON	1			1	1		1
	METER ON SIGN	2				2		
	SPARES	3				3		
	TOTAL	6			1	6		1
DLC	QUEUE DETECTOR	2				2		
	DEMAND DETECTOR				2	2		1
	PASSAGE DETECTOR				2	2		1
	SURVEILLANCE DETECTOR			3	3	3	3	
	COUNT DETECTOR		1	1	1	2		
	TOTAL		1	4	8	11	3	2
12SMFO #8	DATA		1			1		
	RAMP SIGNAL POWER							
	CONDUIT SIZE	78	78	53	78	2-78	78	78

NOTES:(THIS SHEET ONLY)

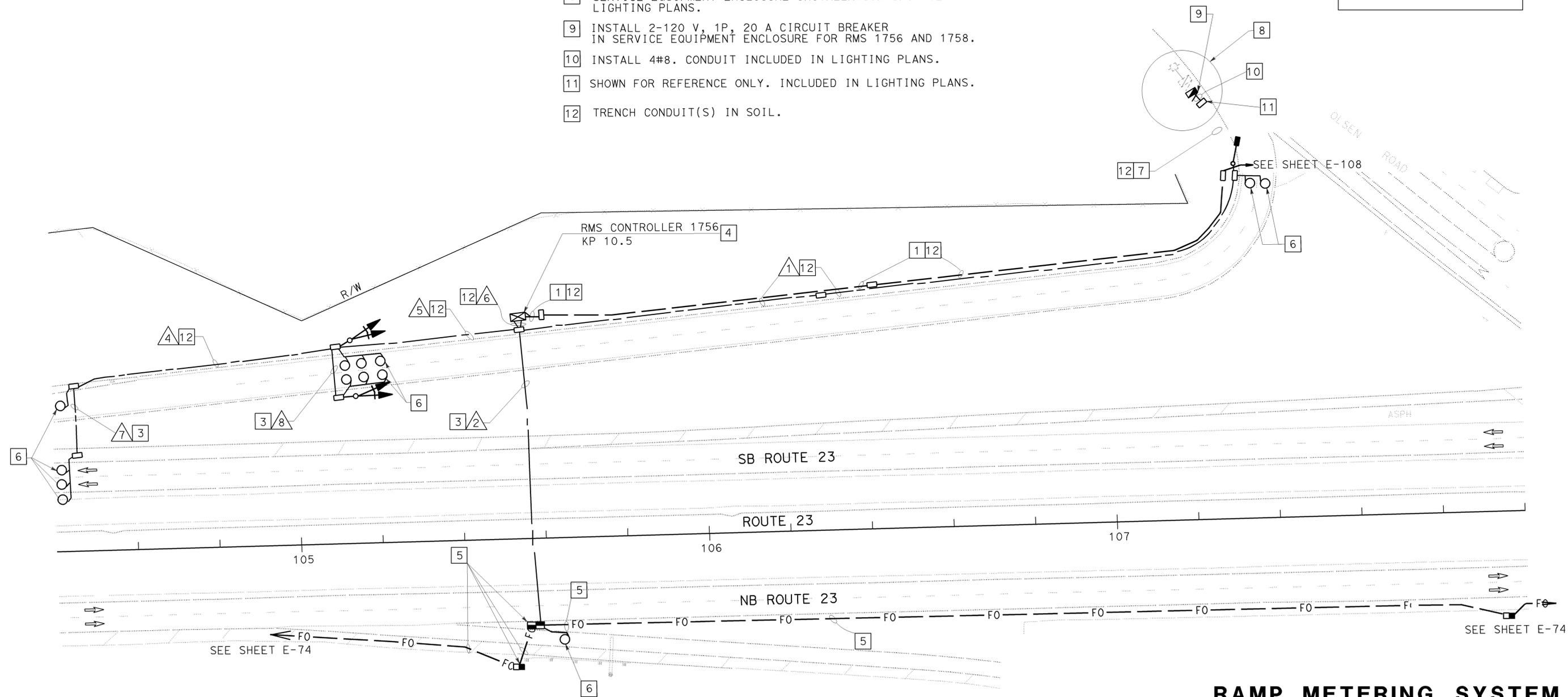
- 1 INSTALL 53C, 2#8.
- 3 JACK CONDUIT(S) BENEATH ROADWAY.
- 4 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-121 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 6 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-123 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 7 INSTALL 53C. INSTALL 4#8.
- 8 SERVICE EQUIPMENT ENCLOSURE INSTALLATION INCLUDED IN LIGHTING PLANS.
- 9 INSTALL 2-120 V, 1P, 20 A CIRCUIT BREAKER IN SERVICE EQUIPMENT ENCLOSURE FOR RMS 1756 AND 1758.
- 10 INSTALL 4#8. CONDUIT INCLUDED IN LIGHTING PLANS.
- 11 SHOWN FOR REFERENCE ONLY. INCLUDED IN LIGHTING PLANS.
- 12 TRENCH CONDUIT(S) IN SOIL.



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		619	849

REGISTERED ELECTRICAL ENGINEER
 JACQUELINE C. TAN 7-14-03
 DATE
 8-22-05
 PLANS APPROVAL DATE
 No. E015611
 12/31/05
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA
 To get to the web site, go to: <http://www.dot.ca.gov>

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**



**RAMP METERING SYSTEM
 (LOCATION 1756)**
 SCALE 1:500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	620	849

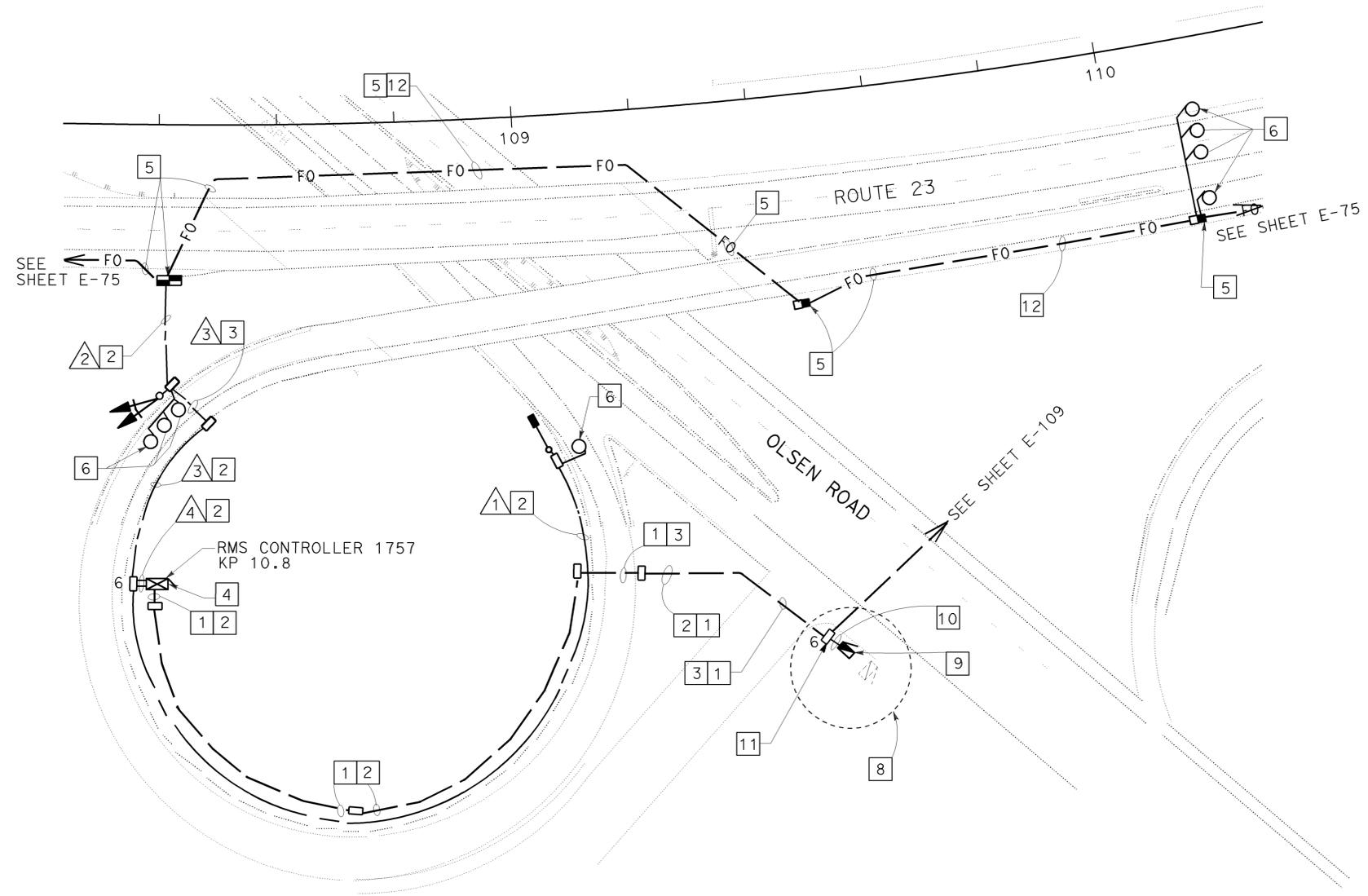
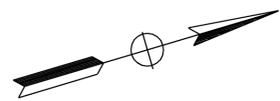
REGISTERED ELECTRICAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

7-14-03
 REGISTERED ELECTRICAL ENGINEER DATE

8-22-05
 PLANS APPROVAL DATE

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

AWG OR CABLE	CONDUCTOR RUN	1	2	3	4
#14	RAMP SIGNAL			3	3
	SPARES			3	3
#10	TOTAL			6	6
	SIGNAL COMMON	1		1	1
	METER ON SIGN	2			2
	SPARES	3			3
DLC	TOTAL	6		1	6
	QUEUE DETECTOR	1			1
	DEMAND DETECTOR			1	1
	PASSAGE DETECTOR			1	1
	SURVEILLANCE DETECTOR		3	3	3
	COUNT DETECTOR		1	1	1
12SMFO	TOTAL	4	6	7	7
	DATA	1	1	1	1
CONDUIT SIZE		78	78	78	2-78



NOTES: (THIS SHEET ONLY)

- 1 INSTALL 78C, 2#8.
- 2 INSTALL CONDUIT(S) IN SOIL.
- 3 JACK CONDUIT(S) BENEATH ROADWAY.
- 4 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEETS E-121 AND FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 6 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 8 SERVICE EQUIPMENT ENCLOSURE INSTALLATION INCLUDED IN LIGHTING PLANS.
- 9 INSTALL 1-120 V, 1P, 20 A CIRCUIT BREAKER IN NEW SERVICE EQUIPMENT ENCLOSURE FOR RMS CONTROLLERS 1757.
- 10 INSTALL 4#8 AND 2#2. CONDUIT INCLUDED IN LIGHTING PLANS.
- 11 SHOWN FOR REFERENCE ONLY. INCLUDED IN LIGHTING PLANS.
- 12 INSTALL 4 DLC. NEW CONDUIT IS SHOWN FOR REFERENCE ONLY AND IS INCLUDED WITH COMMUNICATION SYSTEM ROUTING.

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08 / 31 / 09**

**RAMP METERING SYSTEM
 (LOCATION 1757)**
 SCALE 1:500

E-107

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



USERNAME => S110796
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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RAMP METER CONDUCTOR SCHEDULE								
AWG OR CABLE	CONDUCTOR RUN	2	3	4	5	6	8	9
#14	RAMP SIGNAL				3	3		
	SPARES				3	3		
#10	TOTAL				6	6		1
	SIGNAL COMMON				1	1		2
	METER ON SIGN					2		2
	SPARES					3		3
DLC	TOTAL				1	6		6
	QUEUE DETECTOR					1		1
	DEMAND DETECTOR				1	1		
	PASSAGE DETECTOR				1	1		
	SURVEILLANCE DETECTOR			3	3	3		
	COUNT DETECTOR			1	1	2	1	1
12SMFO #8	TOTAL		4		6	8		1
	DATA	1		1	1	1		
	RMS POWER		2					
CONDUIT SIZE	78	78	2-78	78	2-78	78	53	

- NOTES: (THIS SHEET ONLY)
- INSTALL 53C, 2#8.
 - TRENCH CONDUIT(S) IN SOIL.
 - JACK TYPE 1 CONDUIT(S) BENEATH ROADWAY
 - INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-121 AND -122 FOR DETAILS.
 - SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
 - INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-133 FOR LOOP DETECTOR INSTALLATION DETAILS.
 - SEE STRUCTURAL PLANS FOR CONDUIT INSTALLATION.
 - INSTALL 4 DLC AND 12SMFO. CONDUIT IS SHOWN FOR REFERENCE ONLY AND IS INCLUDED WITH COMMUNICATION SYSTEM ROUTING.



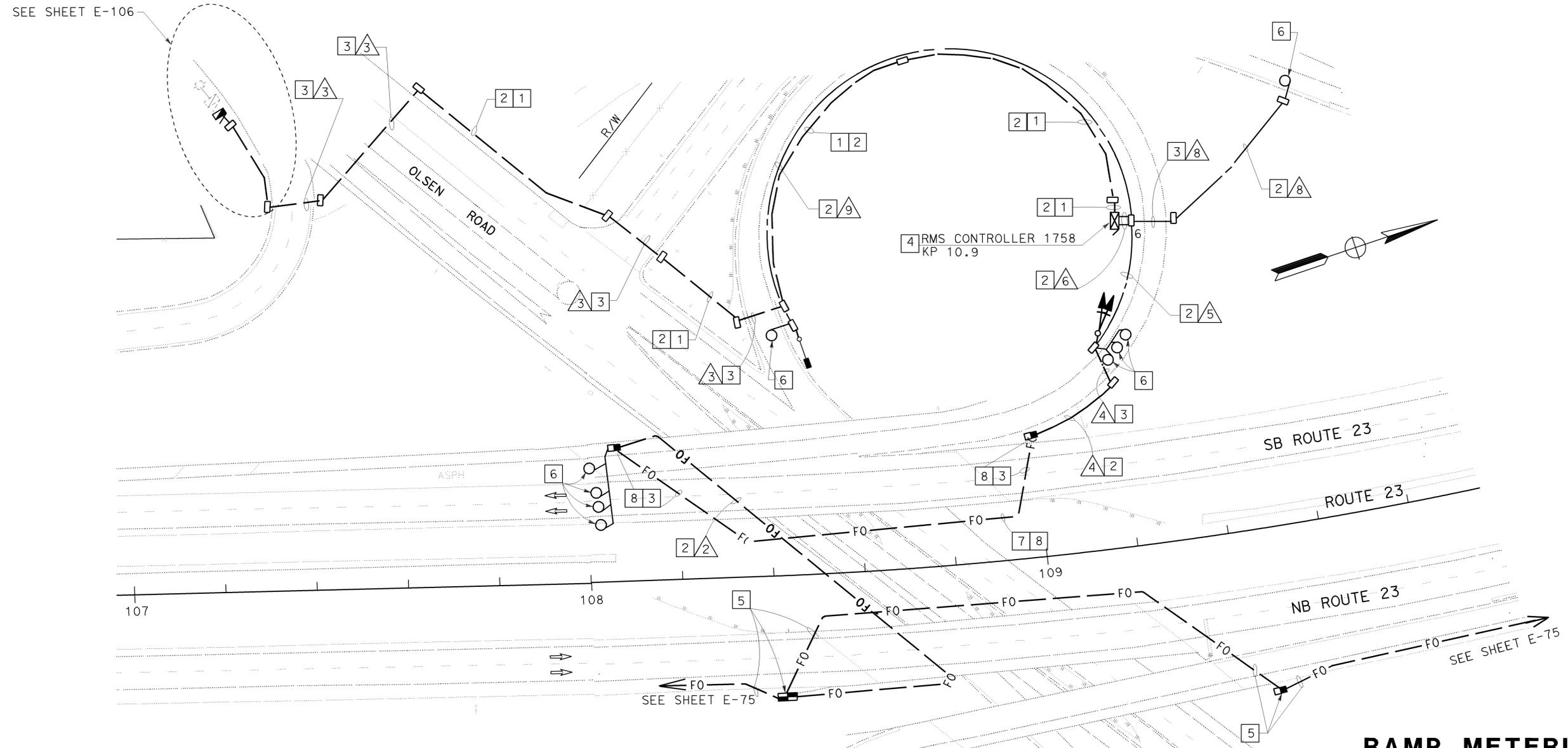
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		621	849

REGISTERED ELECTRICAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

7-14-03
 8-22-05
 PLANS APPROVAL DATE

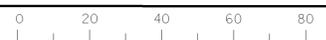
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AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS



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EA 115451

**RAMP METERING SYSTEM
 (LOCATION 1758)**

SCALE 1:500

E-108

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 HKA
 JT
 DATE REVISIONS BY DATE REVISIONS BY
 CALCULATED/DESIGNED BY CHECKED BY

GENERAL NOTES: (THIS SHEET ONLY)

- 1 INSTALL 53C, 2#8, 2#2.
- 2 INSTALL CONDUIT(S) IN SOIL. SEE SHEET E-126 FOR DETAILS.
- 3 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 4 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-122 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 6 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-134 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 12 INSTALL 53C IN SOIL. INSTALL 4 DLC.
- 13 INSTALL 2-120 V, 20 A CIRCUIT BREAKER FOR TMS 2743 AND RMS 1759.
- 15 INSTALL 53C, 2#2 (APPROX. 900 m TO TMS CONTROLLER 2743) FOR TMS 2743 POWER. SEE SHEET E-110
- 16 SEE SHEET E-38 FOR SERVICE EQUIPMENT ENCLOSURE INSTALLATION.
- 17 INSTALL 53C IN SOIL. INSTALL 2#8.

RAMP METER CONDUCTOR SCHEDULE					
AWG OR CABLE	CONDUCTOR RUN	1	2	3	4
#14	RAMP SIGNAL		3	3	
	SPARES		3	3	
	TOTAL		6	6	
#10	SIGNAL COMMON	1	1	1	
	METER ON SIGN	2	2		
	SPARES	3	3		
	TOTAL	6	6	1	
DLC	QUEUE DETECTOR	1	1		
	DEMAND DETECTOR		1	1	
	PASSAGE DETECTOR		1	1	
	SURVEILLANCE DETECTOR		3	3	
	COUNT DETECTOR		1	1	
TOTAL		7	6		
12SMFO	DATA		1		1
CONDUIT SIZE		78	2-78	78	53



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		622	849

REGISTERED ELECTRICAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 12/31/05
 EXP. DATE
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

7-14-03
 DATE
 8-22-05
 PLANS APPROVAL DATE

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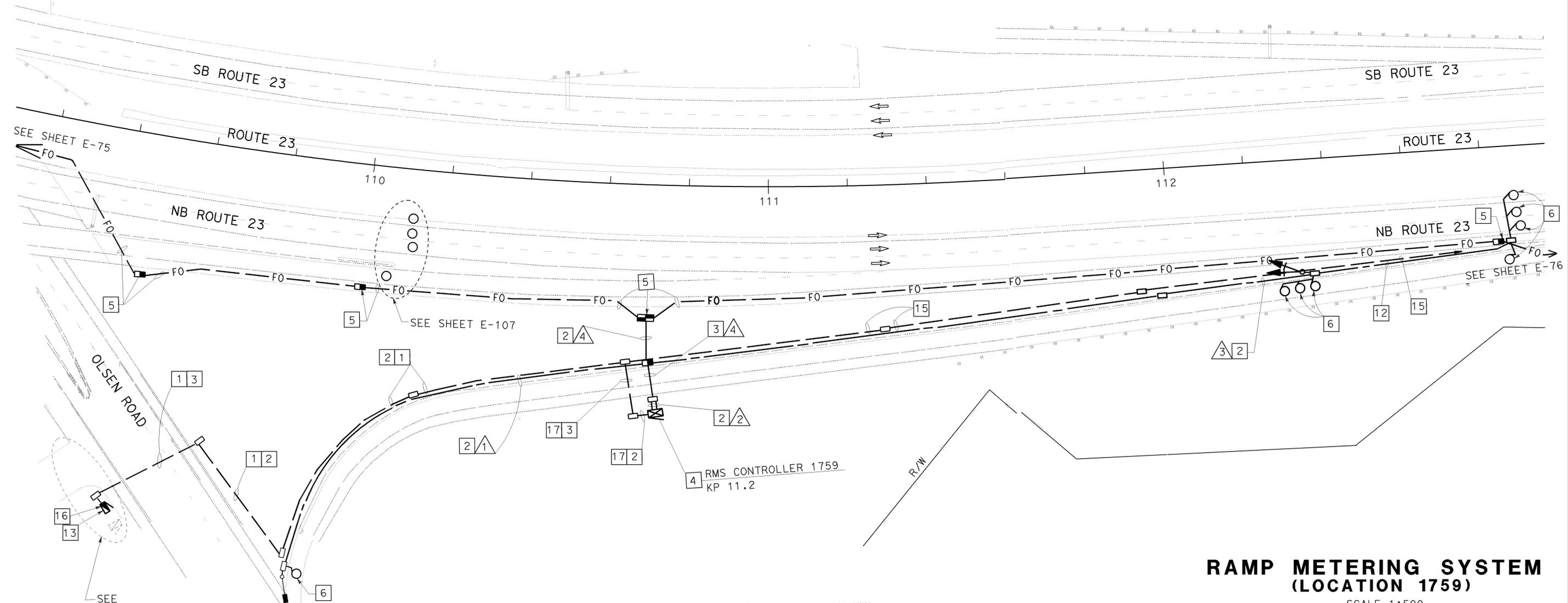
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AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**



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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



**RAMP METERING SYSTEM
 (LOCATION 1759)
 SCALE 1:500**

E-109

DATE PLOTTED => 22-APR-2010
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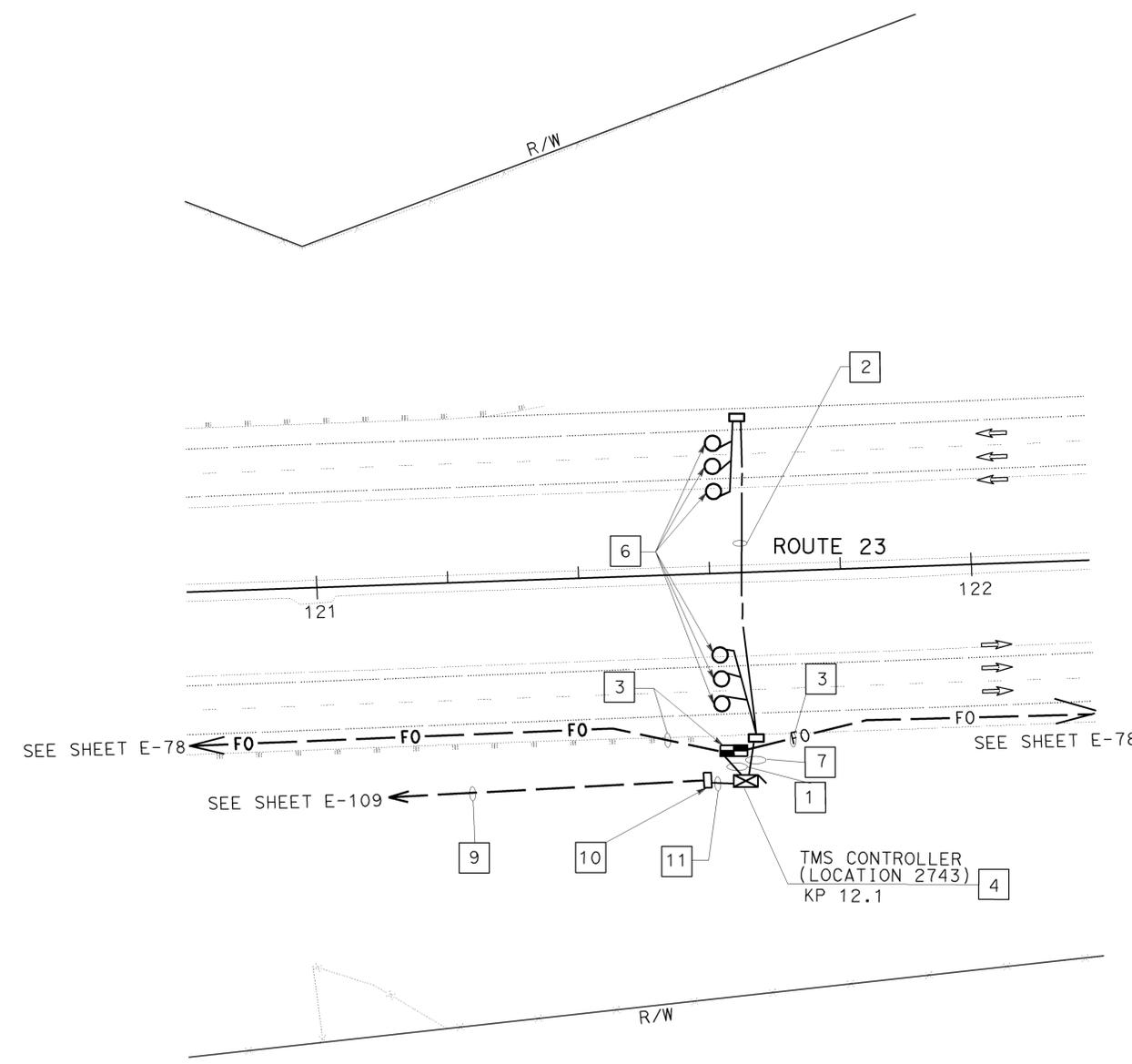


DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		623	849

Jacqueline C. Tan 7-14-03
 REGISTERED ELECTRICAL ENGINEER
 8-22-05
 PLANS APPROVAL DATE

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- PROJECT NOTES: (THIS SHEET ONLY)
- 1 TRENCH 1-78C IN SOIL. INSTALL 12SMFO.
 - 2 JACK 103C BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS. INSTALL 3 DLC.
 - 3 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
 - 4 INSTALL STATE FURNISHED TYPE 334 CABINET ON NEW FOUNDATION. CABINET TO INCLUDE STATE FURNISHED 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL FODM AND C-MIC. SEE SHEET E-121 AND E-122 FOR DETAILS.
 - 6 INSTALL TYPE E INDUCTIVE LOOP DETECTORS. SEE SHEET E-134 FOR INSTALLATION DETAILS.
 - 7 TRENCH 1-78C IN SOIL. INSTALL 6 DLC.
 - 9 INSTALL 78C IN SOIL, 2#2,600 V CABLE.
 - 10 INSTALL A 50 VA, 480/120 V DRY TYPE TRANSFORMER WITH SECONDARY FUSES MOUNTED FOR TMS 2743 POWER SUPPLY.
 - 11 INSTALL 53C IN SOIL, 2#2.

AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**

**TRAFFIC MONITORING STATION
 (LOCATION 2743)**

SCALE 1:500

E-110

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



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 HOSAKERE K. ANANTH
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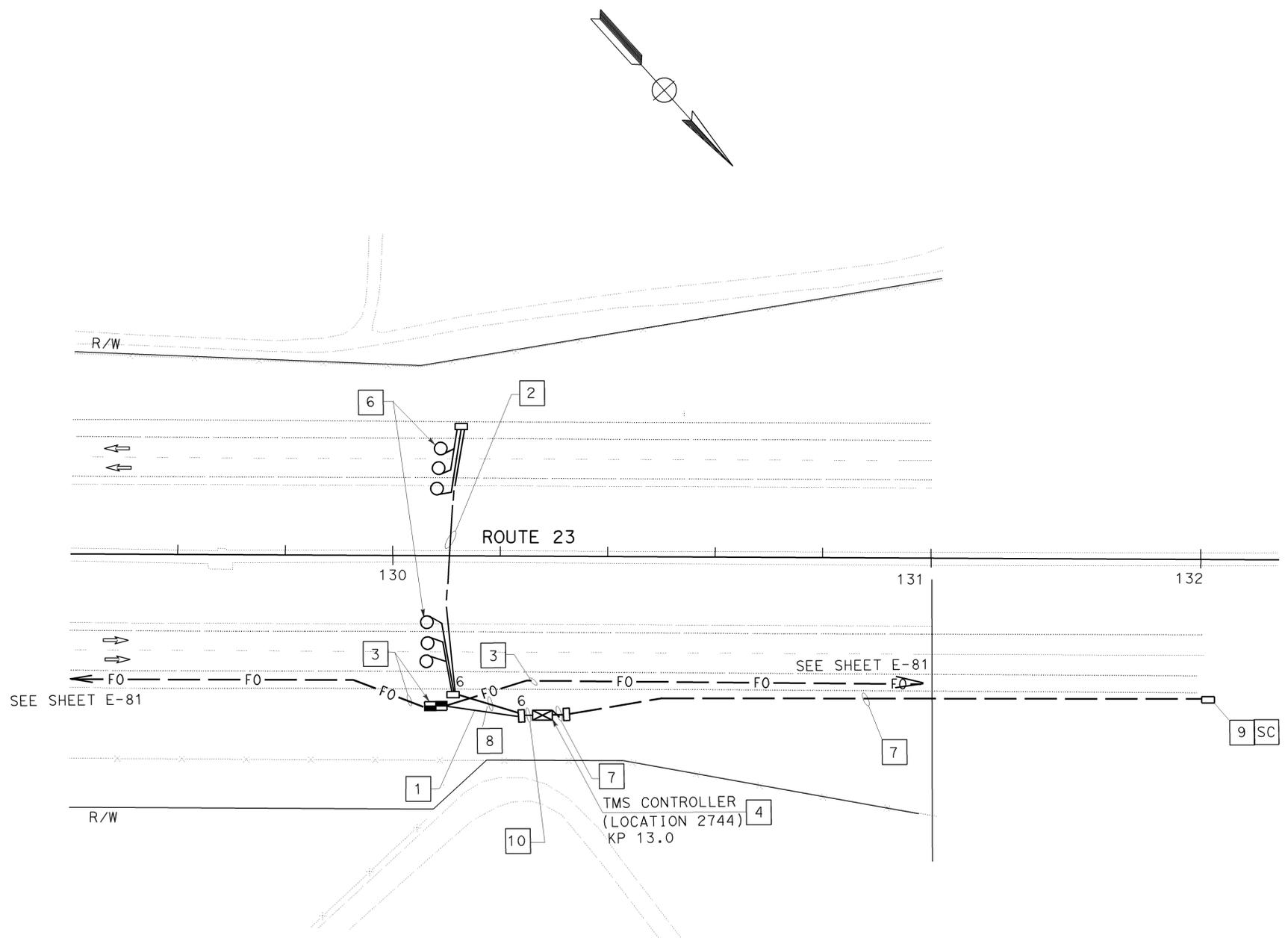
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		624	849

REGISTERED ELECTRICAL ENGINEER
Jacqueline C. Tan
 DATE
 8-22-05
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 12/31/05
 ELECTRICAL
 STATE OF CALIFORNIA

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- PROJECT NOTES: (THIS SHEET ONLY)
- 1 INSTALL 1-78C IN SOIL. SEE SHEET E-127 FOR DETAILS. INSTALL 12SMFO.
 - 2 JACK 103C BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS. INSTALL 3 DLC.
 - 3 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
 - 4 INSTALL STATE FURNISHED MODEL 334 CABINET ON NEW FOUNDATION. CABINET TO INCLUDE STATE- FURNISHED MODEL 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU. SEE SHEET E-121 AND E-122 FOR DETAILS.
 - 6 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-134 FOR INSTALLATION DETAILS.
 - 7 INSTALL 53C IN SOIL. INSTALL 2#4.
 - 8 INSTALL 1-78C IN SOIL. INSTALL 6 DLC.
 - 9 SPLICE 2#4 AT THIS PULL BOX. SEE E-28 FOR REFERENCE.
 - 10 INSTALL 1-78C IN SOIL. INSTALL 12SMFO AND 6 DLC.

AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**

TRAFFIC MONITORING SYSTEM (LOCATION 2744)

SCALE 1:500

E-111

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

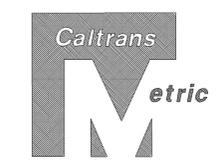


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 DGN FILE => 711545ua111.dgn

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EA 115451

LAST REVISION
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		625	849

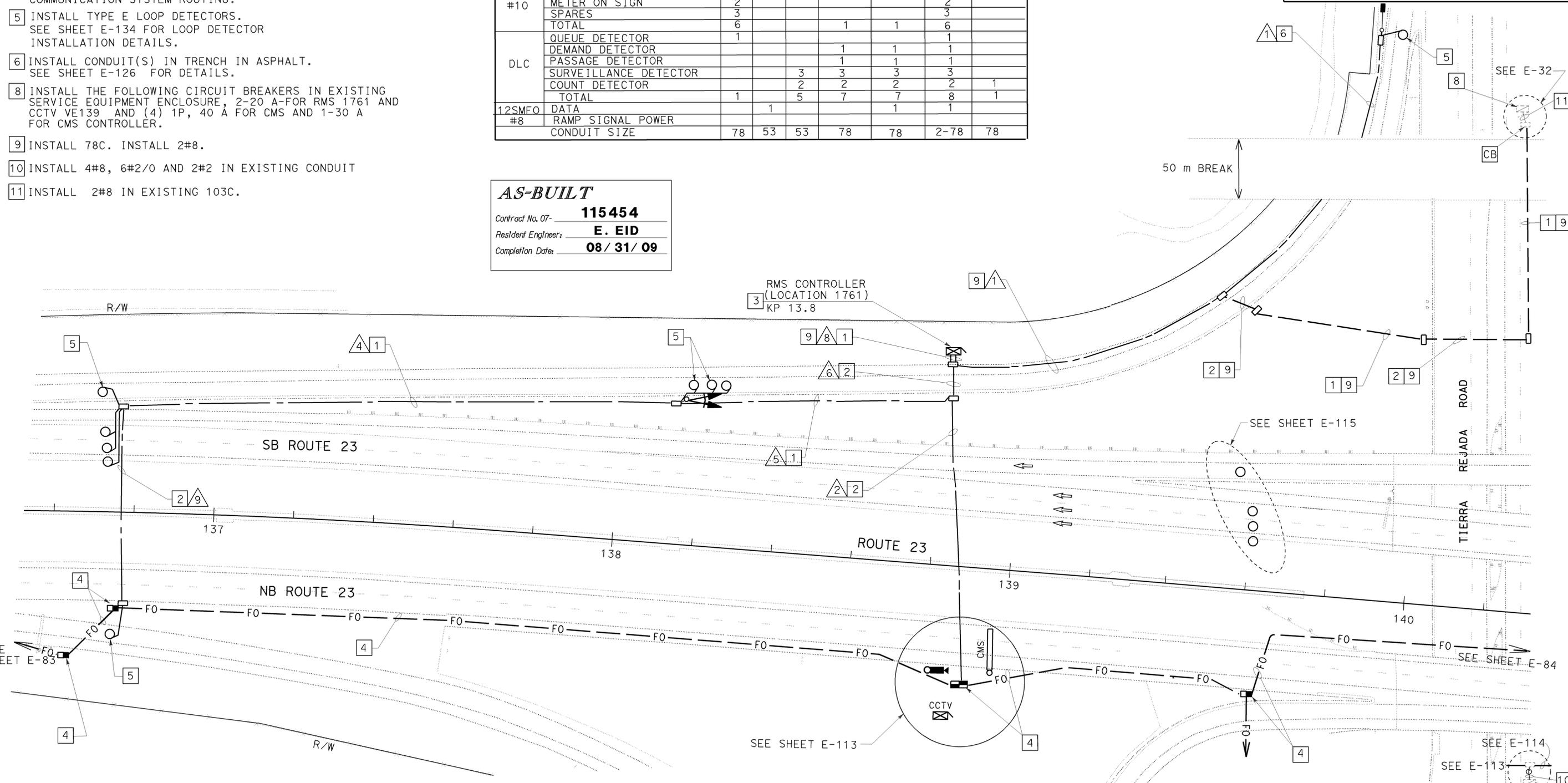
8-22-05
 PLANS APPROVAL DATE
 REGISTERED ELECTRICAL ENGINEER DATE
 REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. TAN
 No. E015611
 12/31/05
 Exp. ELECTRICAL
 STATE OF CALIFORNIA
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

GENERAL NOTES: (THIS SHEET ONLY)

- 1 INSTALL CONDUIT(S) IN TRENCH IN SOIL.
- 2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FODM AND C-MIC IN CONTROLLER CABINET. SEE SHEET E-122 FOR DETAILS.
- 4 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 5 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-134 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 6 INSTALL CONDUIT(S) IN TRENCH IN ASPHALT. SEE SHEET E-126 FOR DETAILS.
- 8 INSTALL THE FOLLOWING CIRCUIT BREAKERS IN EXISTING SERVICE EQUIPMENT ENCLOSURE, 2-20 A-FOR RMS 1761 AND CCTV VE139 AND (4) 1P, 40 A FOR CMS AND 1-30 A FOR CMS CONTROLLER.
- 9 INSTALL 78C. INSTALL 2#8.
- 10 INSTALL 4#8, 6#2/0 AND 2#2 IN EXISTING CONDUIT
- 11 INSTALL 2#8 IN EXISTING 103C.

RAMP METER CONDUCTOR SCHEDULE								
AWG OR CABLE	CONDUCTOR RUN	1	2	4	5	6	8	9
#14	RAMP SIGNAL				3	3	3	
	SPARES				3	3	3	
	TOTAL				6	6	6	
#10	SIGNAL COMMON	1			1	1	1	
	METER ON SIGN	2					2	
	SPARES	3					3	
	TOTAL	6			1	1	6	
DLC	QUEUE DETECTOR	1					1	
	DEMAND DETECTOR				1	1	1	
	PASSAGE DETECTOR				1	1	1	
	SURVEILLANCE DETECTOR			3	3	3	3	
	COUNT DETECTOR			2	2	2	2	1
	TOTAL	1		5	7	7	8	1
12SMFO #8	DATA		1			1	1	
	RAMP SIGNAL POWER							
	CONDUIT SIZE	78	53	53	78	78	2-78	78

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**



**RAMP METERING SYSTEM
 (LOCATION 1761)
 SCALE 1:500
 E-112**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
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 JT
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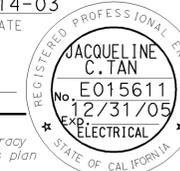
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 TIME PLOTTED => 10:09



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		626	849

Jacqueline C. Tan 7-14-03
REGISTERED ELECTRICAL ENGINEER DATE

8-22-05
PLANS APPROVAL DATE

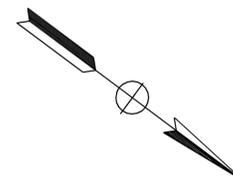


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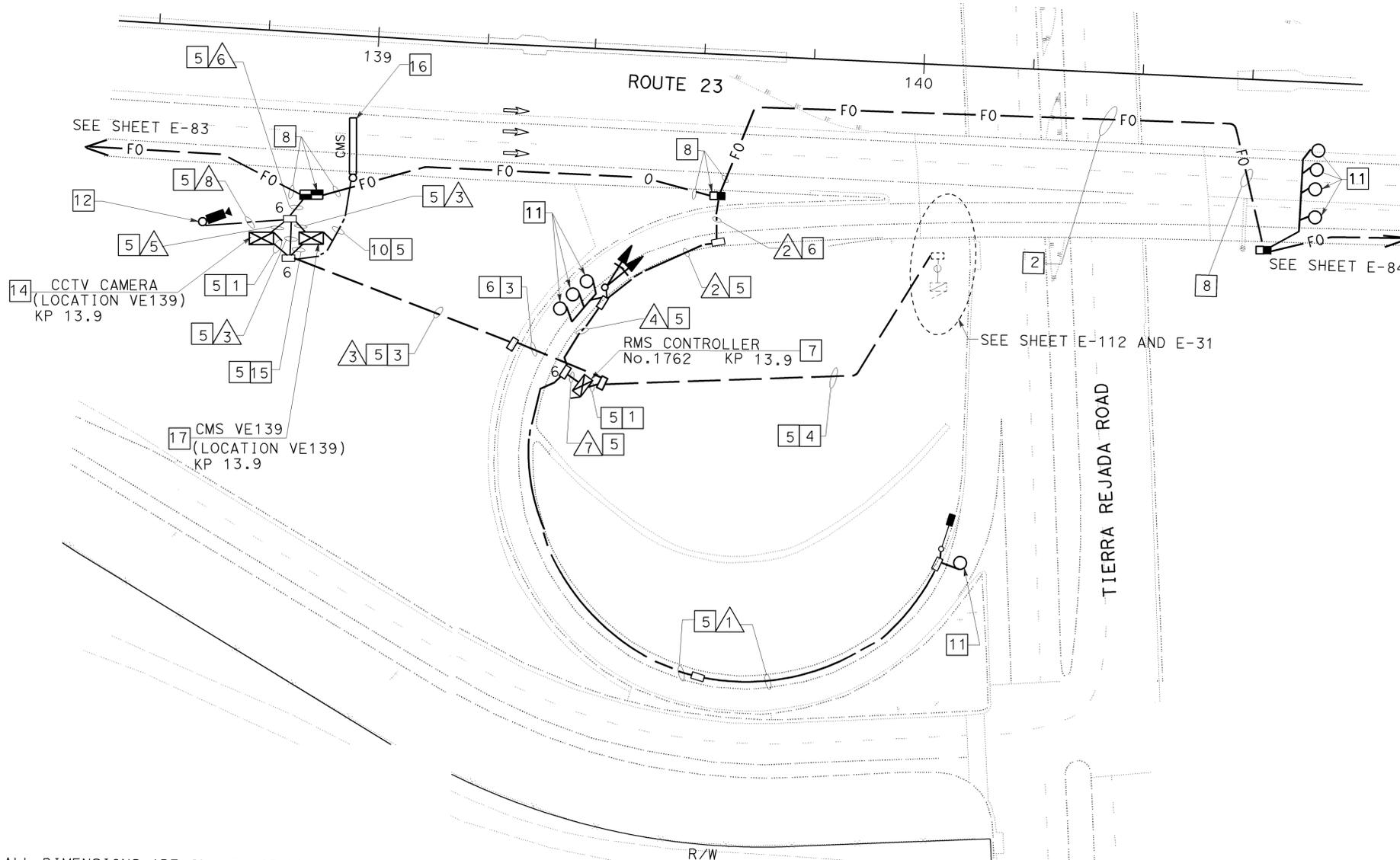
AS-BUILT
Contract No. 07- **115454**
Resident Engineer: **E. EID**
Completion Date: **08/31/09**

RAMP METER CONDUCTOR SCHEDULE									
AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8
#14	RAMP SIGNAL				3				3
	SPARES				3				3
	TOTAL				6				6
#10	SIGNAL COMMON				1				1
	METER ON SIGN	2							3
	SPARES	3							
	TOTAL	5			1				4
DLC	QUEUE DETECTOR	1							1
	DEMAND DETECTOR				1				1
	PASSAGE DETECTOR				1				1
	SURVEILLANCE DETECTOR			3	3				3
	COUNT DETECTOR		1		1				1
	TOTAL	1	4						7
	12SMFO			1		2	4		1
	RG-59U COAX CABLE					1			1
	CAMERA POWER & CONTROL CABLES					1			1
	CONDUIT SIZE	53	53	53	78	53	78	103	78



NOTES:(THIS SHEET ONLY)

- 1 INSTALL 53C, 2#8.
- 2 INSTALL 4 DLC IN COMMUNICATION SYSTEM ROUTING CONDUIT.
- 3 INSTALL 78C, 4#4, 2#8.
- 4 INSTALL 103C, 4#4, 2#8.
- 5 INSTALL CONDUIT IN TRENCH IN SOIL. SEE SHEET E-126 OR E-127 FOR DETAILS.
- 6 JACK CONDUIT BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 7 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-121 AND E-122 FOR DETAILS.
- 8 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 10 INSTALL 78C, 4#4 AND STATE- FURNISHED CMS CONTROL CABLES.
- 11 INSTALL TYPE E LOOP DETECTORS. SEE SHEET E-134 FOR LOOP DETECTOR INSTALLATION DETAILS.
- 12 INSTALL CCTV POLE TYPE 45. SEE ES-16A FOR DETAILS. INSTALL CAMERA ASSEMBLY WITH PAN/TILT UNIT. SEE SHEET E-125 FOR DETAILS.
- 14 INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE VIDEO TRANSMITTER, FOCM AND CAMERA CONTROL RECEIVER. SEE SHEET E-122 DETAIL A AND E-122 DETAIL B.
- 15 INSTALL 78C,2#8 AND STATE FURNISHED CMS CONTROL CABLES.
- 16 INSTALL STATE FURNISHED MODEL 500 LED CMS PANEL ON NEW CMS SIGN STRUCTURE. SEE DETAILS C-17 AND S-1 THRU S-12.
- 17 INSTALL STATE FURNISHED CMS CABINET AND CONTROLLER ASSEMBLY ON NEW FOUNDATION. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEETS E-122 DETAIL C AND E-122 FOR DETAILS. INSTALL CABINET 9 m FROM ETW.
18. LOCATIONS OF POLES, PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER.
19. SEE SHEET C-17 FOR CMS VE139 AND CCTV VE139 CONSTRUCTION DETAILS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

**CCTV CAMERA
(LOCATION VE139)
RAMP METERING SYSTEM
(LOCATION 1762)
CHANGEABLE MESSAGE SIGN
(LOCATION VE139)**
SCALE 1:500

E-113

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS



USERNAME => S110796
DGN FILE => 711545ua113.dgn

CU 07388

EA 115451

LAST REVISION
00-00-00 DATE PLOTTED => 22-APR-2010
TIME PLOTTED => 10:10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT
PROJECT ENGINEER
HOSAKERE K. ANANTH
CALCULATED/DESIGNED BY
CHECKED BY
HKA
JT
DATE
REVISED BY
DATE REVISED



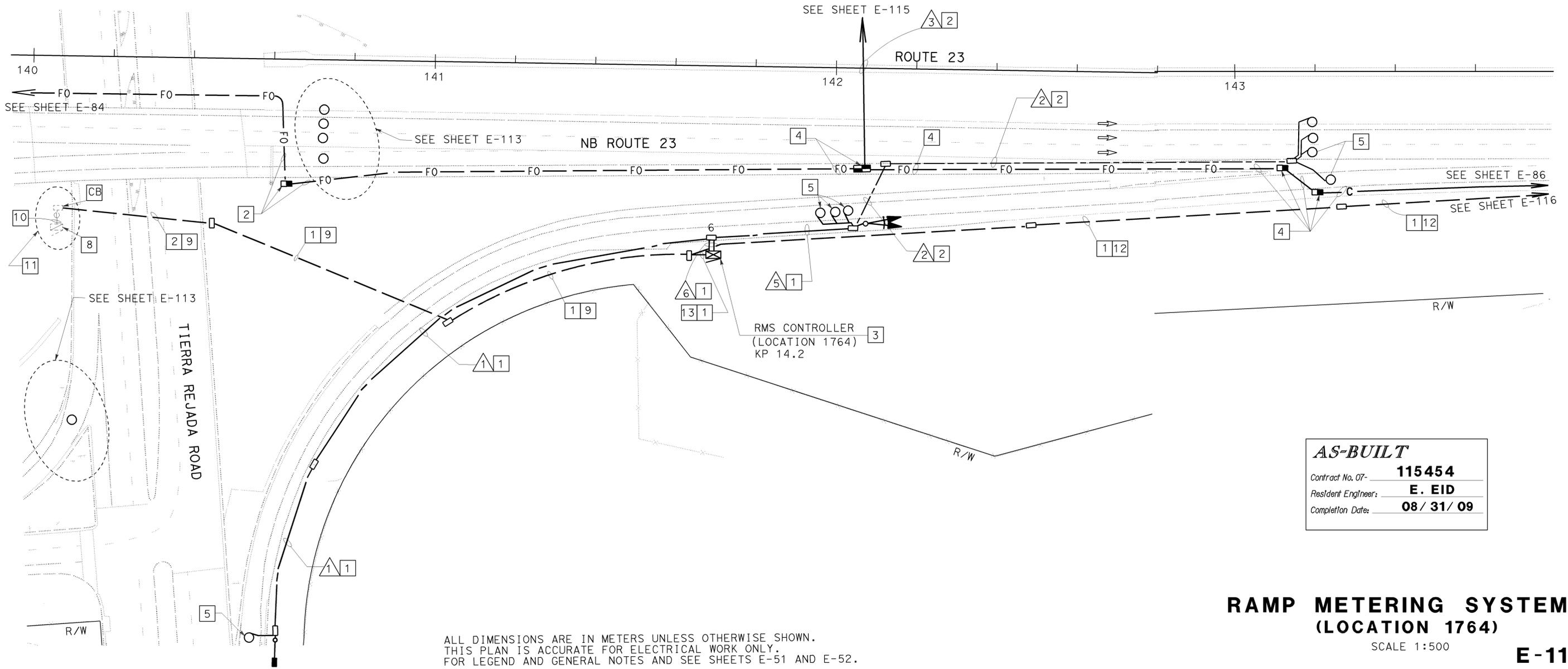
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5	627	849

REGISTERED ELECTRICAL ENGINEER DATE 7-14-03
Jacqueline C. Tan
 REGISTERED ELECTRICAL ENGINEER DATE 8-22-05
 PLANS APPROVAL DATE
 No. E015611
 12/31/05
 EXP. ELECTRICAL
 STATE OF CALIFORNIA
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

GENERAL NOTES:(THIS SHEET ONLY)

- 1 INSTALL CONDUIT(S) IN TRENCH IN SOIL.
- 2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 3 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-134 FOR DETAILS.
- 4 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 5 INSTALL TYPE E LOOP DETECTORS.
- 8 INSTALL THE FOLLOWING CIRCUIT BREAKERS IN EXISTING SERVICE EQUIPMENT ENCLOSURE, 2-20 A CB'S FOR RMS 1764 AND TMS 2745.
- 9 INSTALL 78C. INSTALL 2#2, 2#8.
- 10 INSTALL 2#8, 2#2 IN EXISTING CONDUIT.
- 11 SEE SHEETS E-112 AND E-3.
- 12 INSTALL 53C. INSTALL 2#2.
- 13 INSTALL 78C. INSTALL 2#8.

AWG OR CABLE	CONDUCTOR RUN	△1	△2	△3	△5	△6
#14	RAMP SIGNAL				3	3
	SPARES				3	3
	TOTAL				6	6
#10	SIGNAL COMMON	1			1	1
	METER ON SIGN	2				2
	SPARES	3				3
	TOTAL	6			1	6
	DLC	QUEUE DETECTOR	1			
	DEMAND DETECTOR				1	1
	PASSAGE DETECTOR				1	1
	SURVEILLANCE DETECTOR		3		3	3
	COUNT DETECTOR		1		1	1
	TOTAL	1	4		7	7
12SMFO	DATA		1	1	1	1
#8	RAMP SIGNAL POWER					
	CONDUIT SIZE	78	78	78	78	2-78



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

USERNAME => S110796
 DGN FILE => 711545ua114.dgn

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**

**RAMP METERING SYSTEM
 (LOCATION 1764)
 SCALE 1:500
 E-114**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA
 JT
 DATE REVISIONS BY DATE REVISIONS BY

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 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
 PROJECT ENGINEER
 HOSAKERE K. ANANTH
 HKA JT
 DATE REVISED BY DATE REVISED BY
 CALCULATED/DESIGNED BY CHECKED BY

RAMP METER CONDUCTOR SCHEDULE								
AWG OR CABLE	CONDUCTOR RUN	1	2	4	5	6	8	9
#14	RAMP SIGNAL				3	3		
	SPARES				3	3		
	TOTAL				6	6		
#10	SIGNAL COMMON	1			1	1		
	METER ON SIGN	3				3		
	SPARES	2				2		
	TOTAL	6			1	6		
DLC	QUEUE DETECTOR	1				1		
	DEMAND DETECTOR				1	1		
	PASSAGE DETECTOR				1	1		
	SURVEILLANCE DETECTOR			3	3	3		
	COUNT DETECTOR			1	1	1	1	1
	TOTAL	1		4	6	7	1	1
12SMFO	DATA		1			1		
	CONDUIT SIZE	78	78	53	78	2-78	78	53

- GENERAL NOTES:(THIS SHEET ONLY)**
- 1 INSTALL CONDUIT(S) IN TRENCH IN SOIL.
 - 2 JACK CONDUIT(S) BENEATH ROADWAY. SEE SHEET E-136 FOR DETAILS.
 - 3 INSTALL STATE-FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED MODEL 170 CONTROLLER, LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-121 AND E-122 FOR DETAILS.
 - 5 INSTALL TYPE E LOOP DETECTORS.
 - 6 INSTALL CONDUIT(S) IN TRENCH IN ASPHALT. SEE SHEET E-126 FOR DETAILS.
 - 7 CONDUIT INSTALLED IN LIGHTING PLANS. INSTALL 2#8. SEE SHEET E-32.
 - 8 INSTALL 120 V, 1-1P, 20 A CIRCUIT BREAKER IN EXISTING SERVICE CABINET FOR TMS 1763.
 - 9 INSTALL 78C. INSTALL 2#8.
 - 10 INSTALL 4 DLC IN CONDUIT PROVIDED WITH COMMUNICATION SYSTEM ROUTING. SEE SHEET E-85.
 - 11 CONDUIT PART OF COMMUNICATION SYSTEM ROUTING. SEE STRUCTURAL PLANS.
 - 12 INSTALL 2#8 IN EXISTING CONDUIT.
 - 13 SHOWN FOR REFERENCE ONLY. INCLUDED IN LIGHTING PLANS.



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		628	849

REGISTERED ELECTRICAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 No. 12/31/05
 EXP. ELECTRICAL
 STATE OF CALIFORNIA

7-14-03
 8-22-05
 PLANS APPROVAL DATE

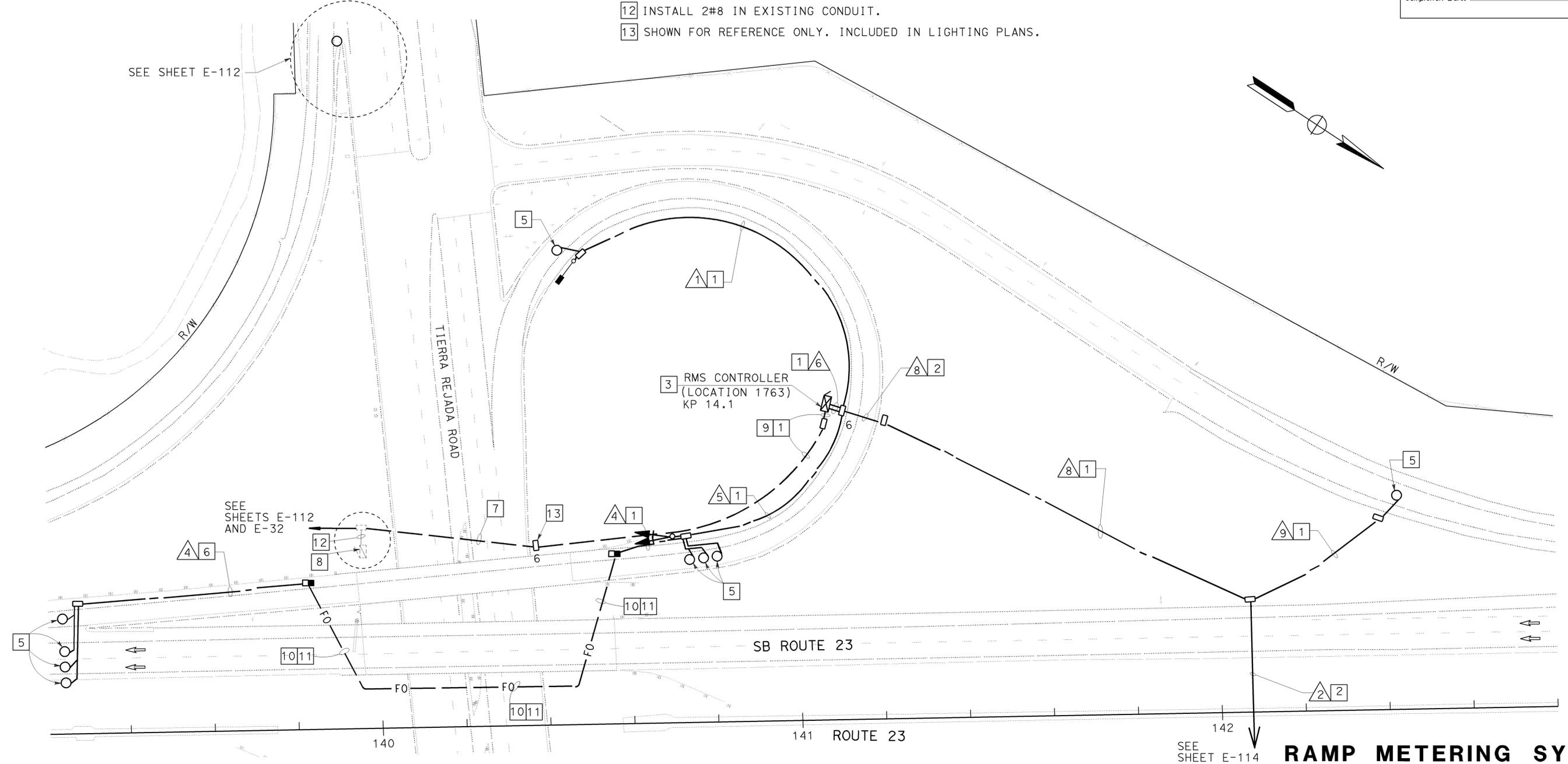
To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

AS-BUILT

Contract No. 07- **115454**

Resident Engineer: **E. EID**

Completion Date: **08 / 31 / 09**



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
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 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.



**RAMP METERING SYSTEM
 (LOCATION 1763)
 SCALE 1:500
 E-115**

LAST REVISION
 00-00-00
 DATE PLOTTED => 22-APR-2010
 TIME PLOTTED => 10:10

PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL CONDUIT(S) IN SOIL. SEE SHEET E-126 OR E-127 FOR DETAILS.
- 2 INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. INSTALL DATA NODE EQUIPMENT. SEE SHEET E-122 AND E-135 FOR DETAILS.
- 3 INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. INSTALL VIDEO NODE EQUIPMENT. SEE SHEET E-122 AND E-135 FOR DETAILS.
- 4 JACK CONDUIT(S) UNDER ROADWAY. SEE SHEET E-136 FOR DETAILS.
- 5 SHOWN FOR REFERENCE ONLY. INCLUDED IN COMMUNICATION SYSTEM ROUTING.
- 6 INSTALL 78C. INSTALL 2#8.
- 7 INSTALL 53C. INSTALL 6#8.
- 8 INSTALL 6#8 IN EXISTING CONDUIT.
- 9 INSTALL 3-20 A BREAKERS FOR RMS CONTROLLER 1572, VIDEO NODE AND DATA NODE.
- 10 BLANK.
- 11 INSTALL 78C. INSTALL 4#8.
- 12 INSTALL 12SMFO CABLE IN 53C IN SOIL.
- 13 INSTALL FOTM,FDU,LOOP DETECTOR SENSORS IN EXISTING CONTROLLER CABINET(LOC.1573). SEE SHEET E-122 FOR DETAILS.
- 14 INSTALL STATE FURNISHED MODEL 334 CABINET ON A NEW FOUNDATION FOR LOC.1572. CABINET TO INCLUDE STATE FURNISHED MODEL 170 CONTROLLER,LOOP DETECTOR SENSORS. INSTALL FOTM AND FDU IN CONTROLLER CABINET. SEE SHEET E-122 FOR DETAILS.
- 15 INSTALL 3 DLC CABLE IN 53C IN SOIL.

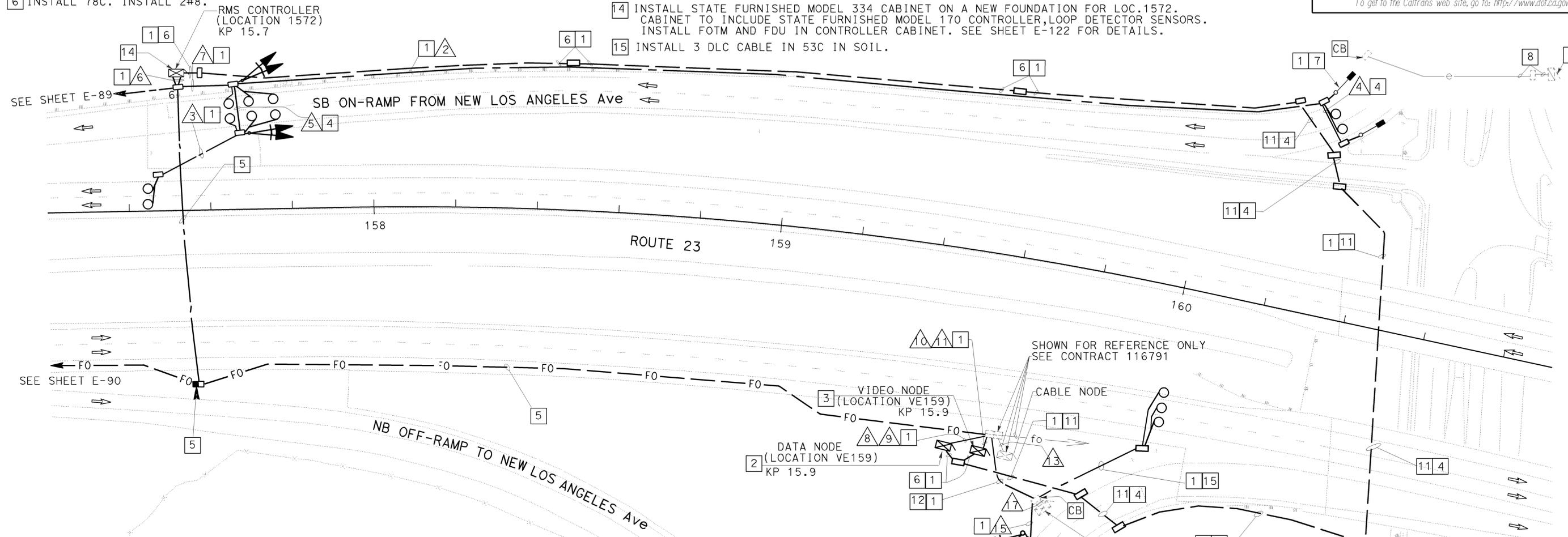


DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
07	Ven	23	R5.6/R18.5		630	849

REGISTERED ELECTRICAL ENGINEER
 JACQUELINE C. TAN
 No. E015611
 Exp. 12/31/05
 STATE OF CALIFORNIA

7-14-03
 8-22-05
 PLANS APPROVAL DATE

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



AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
#14	RAMP SIGNAL					3	3	3							3	3	3	3
	SPARES					3	3	3							3	3	3	3
	TOTAL					6	6	6							6	6	6	6
#10	SIGNAL COMMON		1		1		1	1			1				1	1	1	1
	METER ON SIGN		2		2		2	2			2				2	2	2	2
	SPARES		3		3		3	3			3				3	3	3	3
	TOTAL		6		6		6	6			6				6	6	6	6
DLC	QUEUE DETECTOR		2				2	2							2	2	2	2
	DEMAND DETECTOR					1	2	2							1	2	2	2
	PASSAGE DETECTOR					1	2	2							1	2	2	2
	SURVEILLANCE DETECTOR			2			2	2									3	3
	COUNT DETECTOR	1				2	1	1								1	1	1
	TOTAL	1	2	2		4	9	9							4	7	10	10
12SMFO	DATA						1											
72SMFO	DATA								1									
72SMFO	VIDEO/DATA										1							
48SMFO	TRUNK LINE													1				
12SMFO	DATA DISTRIBUTION								3		1			2			1	1
I-DUCT	INNERDUCT-SIZE 25								4	4	4	4						
	CONDUIT SIZE	53	53	53	78	78	2-78	78	103	103	103	103	78	e	78	78	2-78	e

e-EXISTING 103C

AS-BUILT
 Contract No. 07- **115454**
 Resident Engineer: **E. EID**
 Completion Date: **08/31/09**

**RMS (LOCATION 1572)
 MODIFY RMS (LOCATION 1573)
 DATA NODE (LOCATION VE159)
 VIDEO NODE (LOCATION VE159)**
 SCALE 1:500

E-117

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
 FOR LEGEND AND GENERAL NOTES AND SEE SHEETS E-51 AND E-52.

FOR REDUCED PLANS ORIGINAL SCALE 15 IN MILLIMETERS



USERNAME => S110796
 DGN FILE => 711545ua117.dgn

CU 07388

EA 115451

PROJECT ENGINEER: HOSAKERE K. ANANTH
 HKA: JT
 DATE REVISIONS: [blank]
 DATE REVISOR: [blank]
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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 DATE PLOTTED => 22-APR-2010
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