FOR CONTRACT NO.: 07-1W5904

INFORMATION HANDOUT

ELECTRICAL INFORMATION

FIBER OPTIC SYSTEM AS-BUILT DRAWINGS

ROUTE: 07-LA-10, 39, 210, 605 - PM - Var

DIST	COUNTY	ROUTE	ALONG BEST ROAD TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	210	R53.7/R75.3	62	213

Conway Chu
REGISTERED ELECTRICAL ENGINEER

5-22-06
PLANS APPROVAL DATE

CONWAY CHU No. E15305 EXP. 3/31/07 ELECTRICAL

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

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

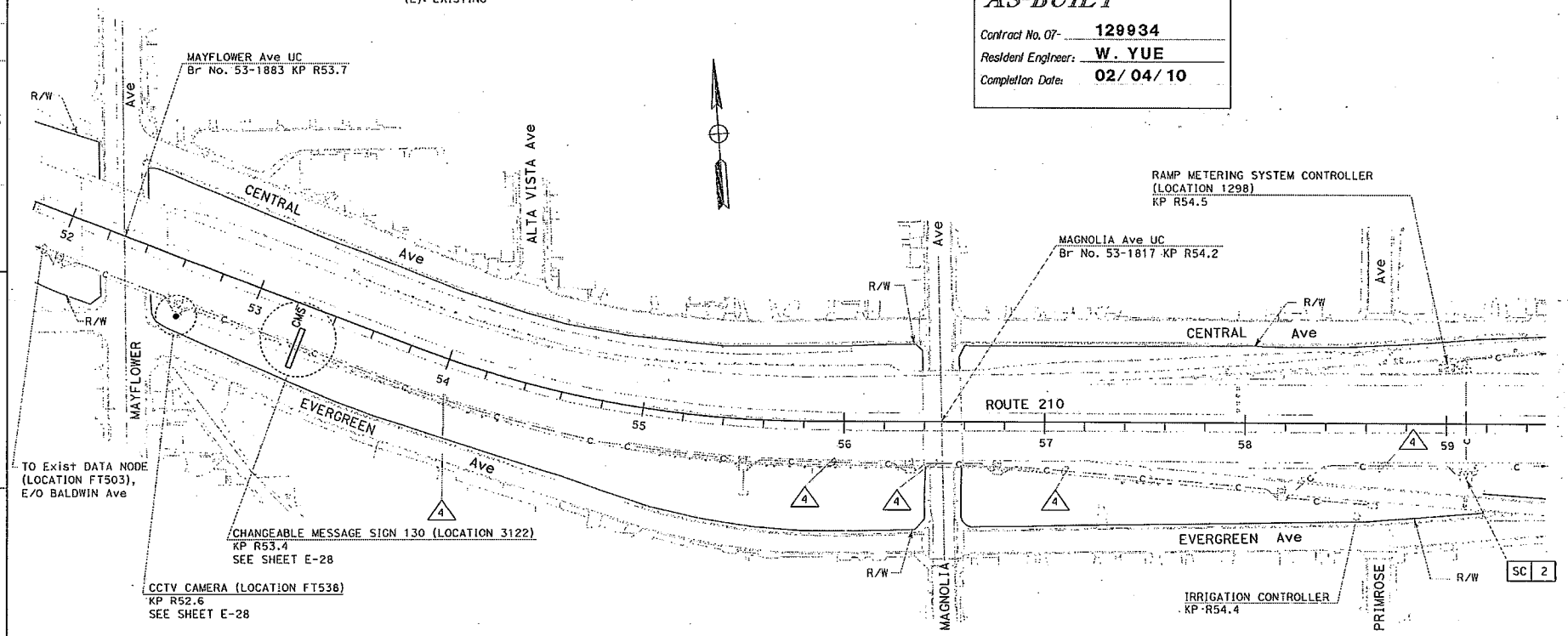
Caltrans Metric

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)			
CONDUCTOR TYPE	FUNCTION	RUN 4	
6P22 CABLE	VOICE/DATA	2	
12SMFO CABLE	SHORT HAUL VIDEO		1
INNERDUCT (SIZE 25)			1
CONDUIT SIZE		103 (E)	

(E): EXISTING

AS-BUILT

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



PROJECT NOTES: (THIS SHEET)

1. INSTALL INNERDUCT AND CABLES IN EXISTING SPARE 103C.

2 INSTALL FIBER OPTIC SPLICE CLOSURE AND TWISTED PAIR SPLICE CLOSURE.

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:1000

E-2

	DATE	REVISED BY
	3/02	CC
	11/05	DATE REVISED 7/05

CALCULATED/DESIGNED BY: CC
CHECKED BY: JT
PROJECT ENGINEER: CONWAY CHU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 50 40 60 80

USERNAME => s129934
LGN FILE => f7995ce02.dgn

CU 07388 | EA 129931

00-00-00 DATE PLOTTED 00-00-00 TIME PLOTTED 00:00:00

DIST.	COUNTY	ROUTE	P.M. BUFFER POST TO AL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	R53.7/R75.3	63	213

Conway Chu
REGISTERED ELECTRICAL ENGINEER
5-22-06
PLANS APPROVAL DATE

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

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

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

PROJECT NOTES: (THIS SHEET)

1. INSTALL FOTM, FOCM, PTSCM, 48-FIBER FDU, AND CABLES IN EXISTING CONTROLLER CABINET. SEE SHEET E-61 FOR DETAILS.
2. INSTALL FIBER OPTIC SPLICE CLOSURE IN EXISTING SPLICE VAULT.

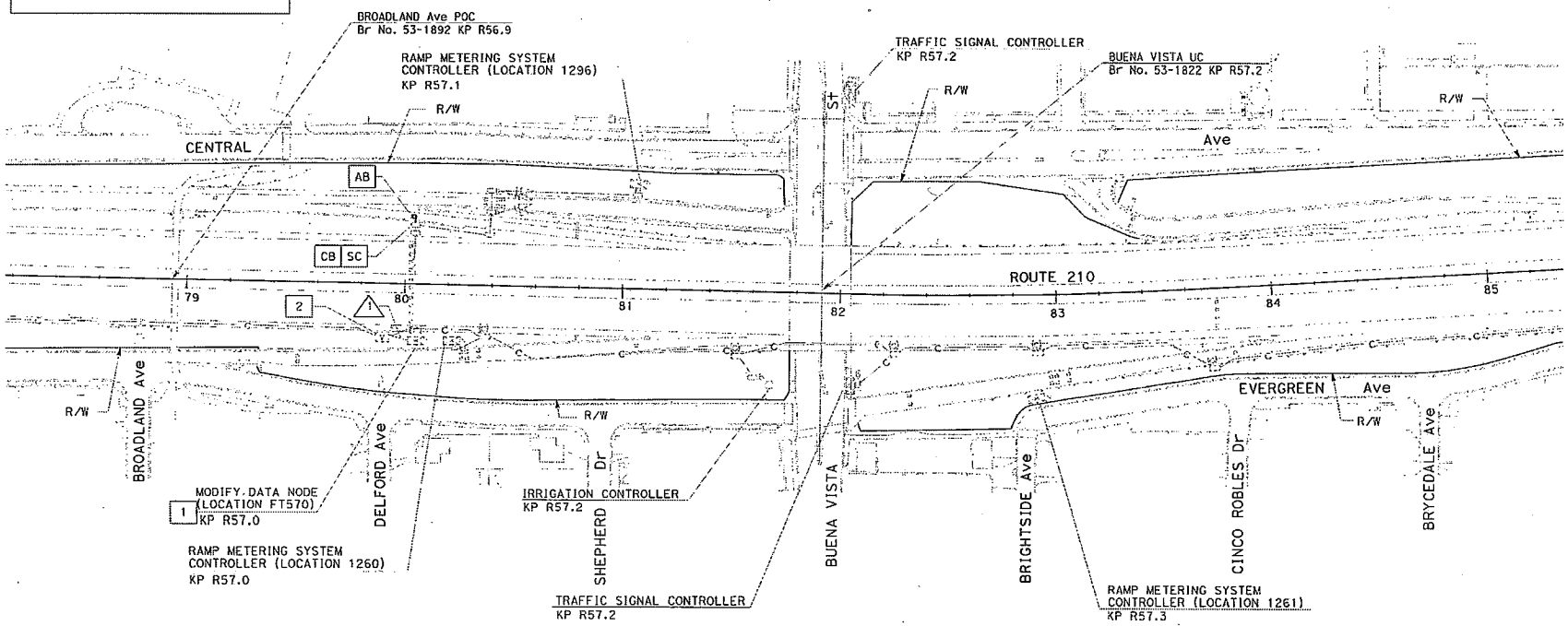
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1		
50P22 CABLE	VOICE/DATA	1(E)		
2SMFO CABLE	DATA/VIDEO		1(E)	
12SMFO CABLE	CAMERA CONTROL			1
INNERDUCT (SIZE 32)			1(E)	
CONDUIT SIZE		103(E)		103(E)

(E): EXISTING

AS-BUILT

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



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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING
MODIFY DATA NODE
(LOCATION FT570)

SCALE 1:1000

E-3

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

CU 07388 | EA 129931

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
PROJECT ENGINEER CONWAY CHU
CALCULATED/DESIGNED BY CC
CHECKED BY JT

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

REVISED 7/05

DIST	COUNTY	ROUTE	POST MILE TOTAL NO.	SHEET NO.	TOTAL SHEETS
07	LA	210	R53.7/R75.3	72	213

Conway Chu
REGISTERED ELECTRICAL ENGINEER

5-22-06
PLANS APPROVAL DATE

CONWAY CHU No. E15305 EXP. 3/31/07 ELECTRICAL

Caltrans Metric

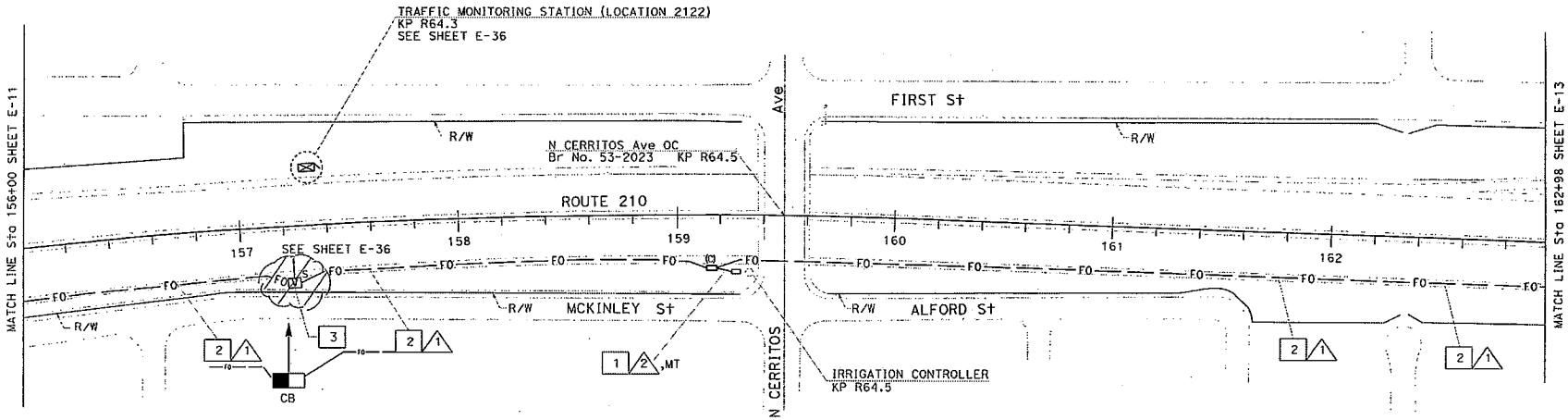
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)							
CONDUCTOR TYPE	FUNCTION	RUN					
		1					2
48SMFO CABLE	DATA DISTRIBUTION	1					
48SMFO CABLE	VIDEO DISTRIBUTION		1				
48SMFO CABLE	DATA/VIDEO			1			
INNERDUCT (SIZE 25)		1	1	1	1		
CONDUIT SIZE		103				103	53

AS-BUILT

Contract No. 07- 129934

Resident Engineer: W. YUE

Completion Date: 02/04/10



PROJECT NOTES: (THIS SHEET)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. INSTALL FIBER OPTIC SPLICE CLOSURE.

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:1000

E-12

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

CALCULATED/DESIGNED BY: CC
CHECKED BY: JT

PROJECT ENGINEER: CONWAY CHU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

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

USERNAME = x113913
DGN FILE = x129934e017.dgn

CU 07388

EA 129931

AS-BUILT 00-00-00 DATE PLOTTED = 23-APR-2010 TIME PLOTTED = 9:00:55

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	R53.7/R75.3	73	213

Conway Chu
REGISTERED ELECTRICAL ENGINEER

5-22-06
PLANS APPROVAL DATE

CONWAY CHU No. E15305 Exp. 3/31/07 ELECTRICAL STATE OF CALIFORNIA

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

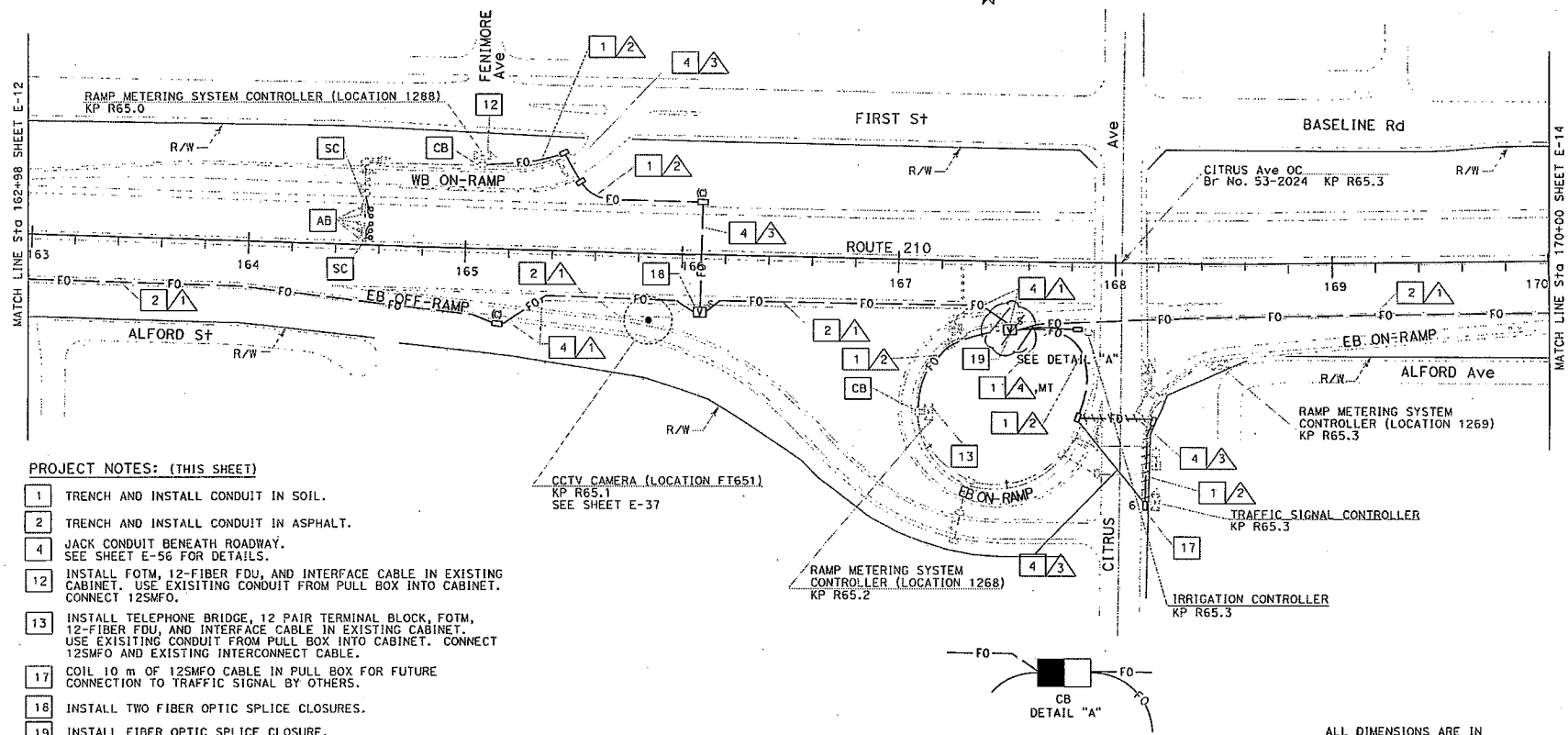
To get the latest version, go to http://www.dot.ca.gov

Caltrans Metric

AS-BUILT

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

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



PROJECT NOTES: (THIS SHEET)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
4. JACK CONDUIT BENEATH ROADWAY. SEE SHEET E-56 FOR DETAILS.
12. INSTALL FOTM, 12-FIBER FDU, AND INTERFACE CABLE IN EXISTING CABINET. USE EXISITING CONDUIT FROM PULL BOX INTO CABINET. CONNECT 12SMFO.
13. INSTALL TELEPHONE BRIDGE, 12 PAIR TERMINAL BLOCK, FOTM, 12-FIBER FDU, AND INTERFACE CABLE IN EXISTING CABINET. USE EXISITING CONDUIT FROM PULL BOX INTO CABINET. CONNECT 12SMFO AND EXISTING INTERCONNECT CABLE.
17. COIL 10 m OF 12SMFO CABLE IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL BY OTHERS.
18. INSTALL TWO FIBER OPTIC SPLICE CLOSURES.
19. INSTALL FIBER OPTIC SPLICE CLOSURE.

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:1000

E-13

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

USERNAME = s121913
DGN FILE = s121593-sc013.dgn

CU 07388 | EA 129931

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

PROJECT ENGINEER: CONWAY CHU
CALCULATED/DESIGNED BY: CC
CHECKED BY: JT
DATE REVISED BY: 3/02 CC
DATE REV-SED: 8/05 7/05

ARE REVISIONS: 00-00-00
DATE PLOTTED: 23 JUN 2010
TIME PLOTTED: 15:45:55

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	210	R53.7/R75.3	77	213

Conway Chu
REGISTERED ELECTRICAL ENGINEER

5-22-06
PLANS APPROVAL DATE

CONWAY CHU No. E15305 Exp. 3/31/07 ELECTRICAL

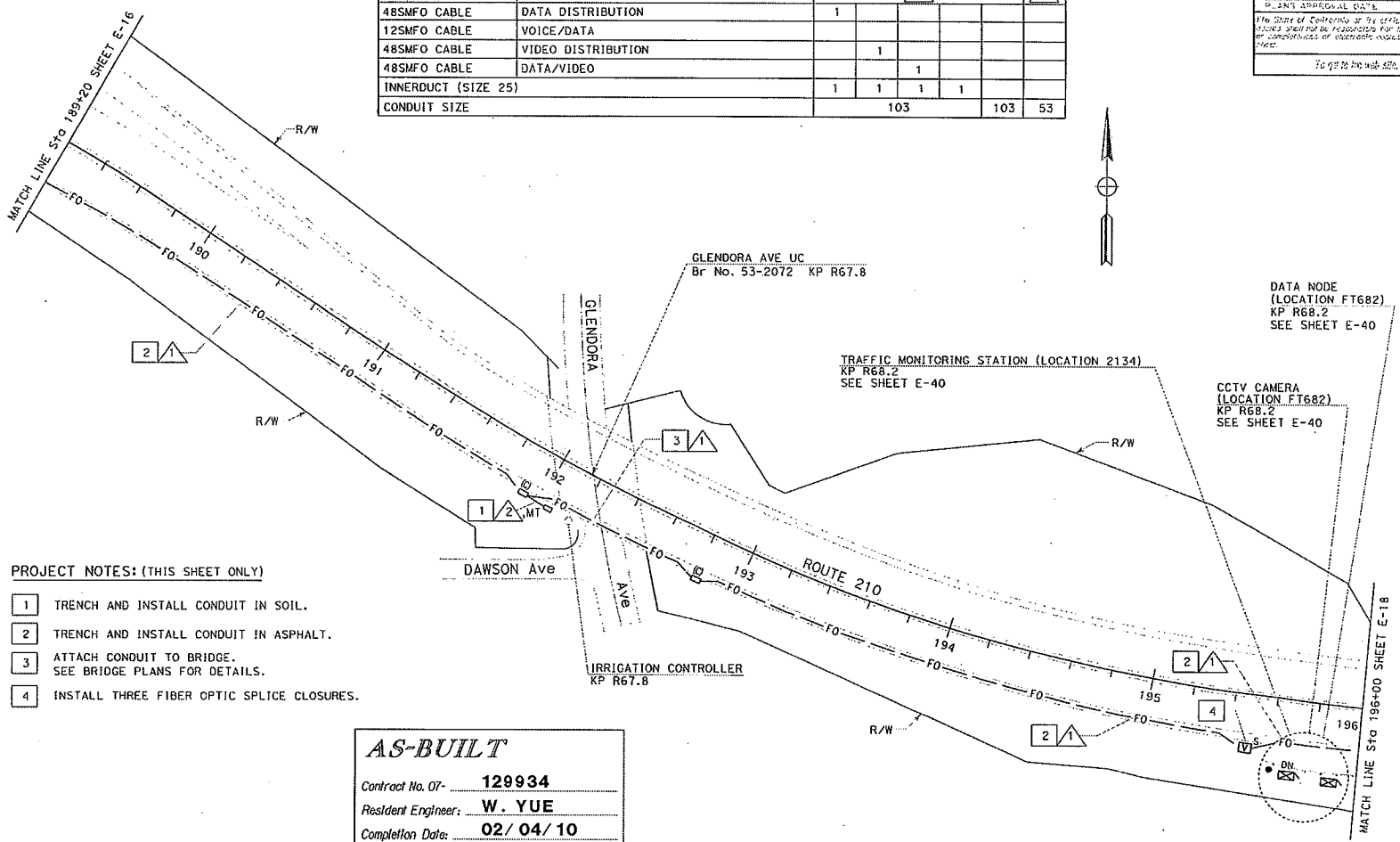
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

Caltrans Metric

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

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



PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. ATTACH CONDUIT TO BRIDGE. SEE BRIDGE PLANS FOR DETAILS.
4. INSTALL THREE FIBER OPTIC SPLICE CLOSURES.

AS-BUILT

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

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:1000

E-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

PROJECT ENGINEER: CONWAY CHU
CALCULATED/DESIGNED BY: CC DATE: 3/02
CHECKED BY: JT DATE: 8/05
REVISED BY: CC DATE REVISED: 7/05

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

CU 07388 | EA 129931

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	210	R53.7/R75.3	78	213

Conway Chu
REGISTERED ELECTRICAL ENGINEER

5-22-06
PLANS APPROVAL DATE

CONWAY CHU No. E15305 Exp. 3/31/07 ELECTRICAL STATE OF CALIFORNIA

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

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

Caltrans Metric

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

AS-BUILT

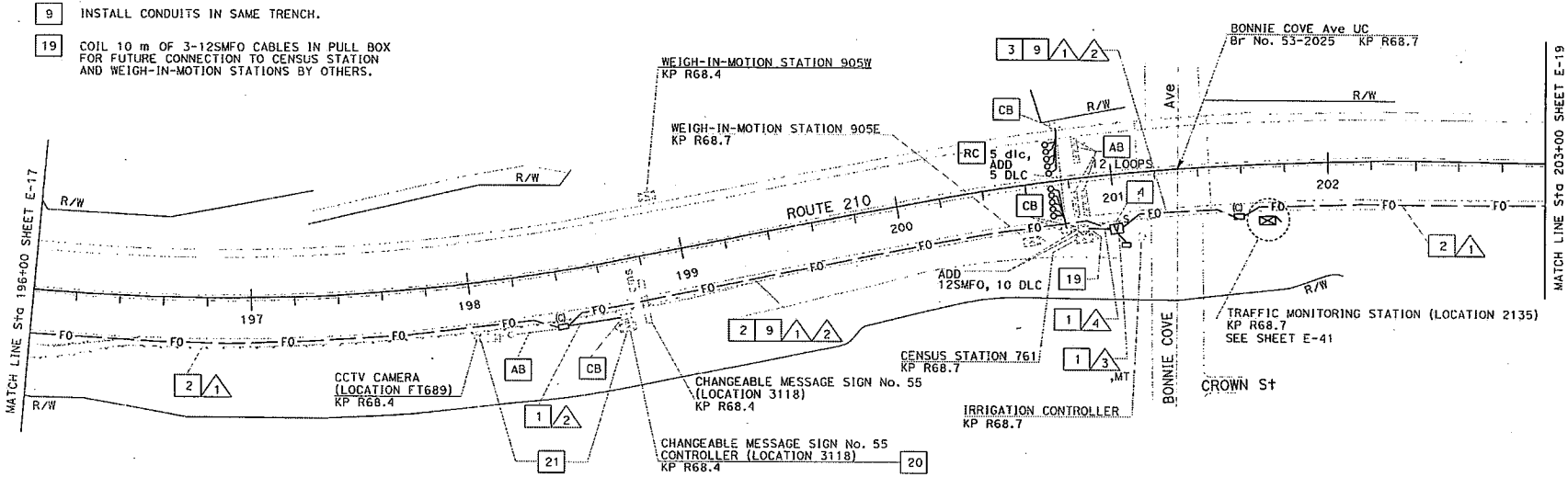
Contract No. 07- 129934

Resident Engineer: W. YUE

Completion Date: 02/ 04/ 10

PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. ATTACH CONDUIT TO BRIDGE. SEE BRIDGE PLANS FOR DETAILS.
4. INSTALL FIBER OPTIC SPLICE CLOSURE.
9. INSTALL CONDUITS IN SAME TRENCH.
19. COIL 10 m OF 3-12SMFO CABLES IN PULL BOX FOR FUTURE CONNECTION TO CENSUS STATION AND WEIGH-IN-MOTION STATIONS BY OTHERS.
20. INSTALL FOTM, 12-FIBER FDU AND INTERFACE CABLE IN EXISTING CABINET. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET. CONNECT 12SMFO.
21. RS SLOW-SCAN CCTV CAMERA EQUIPMENT AND POLE.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

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

COMMUNICATION SYSTEM ROUTING

SCALE 1:1000

E-18

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

CALCULATED/DESIGNED BY CC
CHECKED BY JT

PROJECT ENGINEER CONWAY CHU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

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

USERNAME = s129112
DGN FILE = s71293ita018.dgn

CU 07388 EA 129931

DATE PLOTTED 21 JAN 2010
TIME PLOTTED 07:15:25
00-00-00

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	210	R53.7/R75.3	83	213

Conway Chu
REGISTERED ELECTRICAL ENGINEER

5-22-06
PLANS APPROVAL DATE

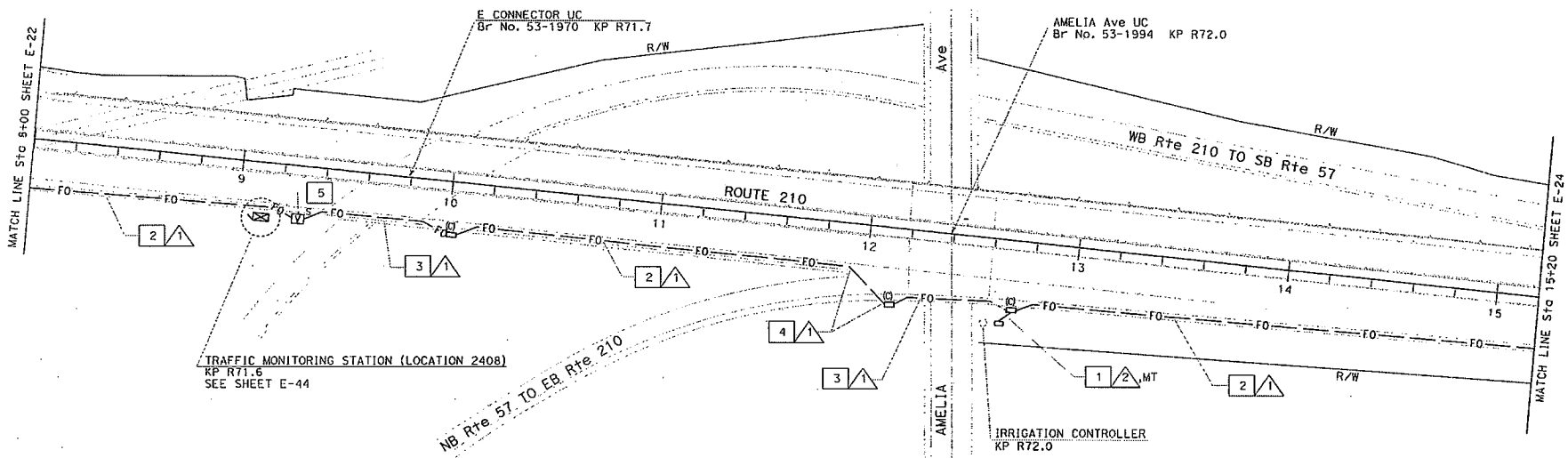
CONWAY CHU No. E15305 Exp. 3/31/07 ELECTRICAL STATE OF CALIFORNIA

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

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

Caltrans Metric

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



PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. ATTACH CONDUIT TO BRIDGE. SEE BRIDGE PLANS FOR DETAILS.
4. JACK CONDUIT BENEATH ROADWAY. SEE SHEET E-56 FOR DETAILS.
5. INSTALL FIBER OPTIC SPLICE CLOSURE.

AS-BUILT

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

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

COMMUNICATION SYSTEM ROUTING

SCALE 1:1000

E-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

PROJECT ENGINEER: CONWAY CHU
CALCULATED/DESIGNED BY: CC
CHECKED BY: JT

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

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

CU 07388 | EA 129931

00-00-00 DATE PLOTTED

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	210	R53.7/R75.3	85	213

Caltrans Metric

Conway Chu
REGISTERED ELECTRICAL ENGINEER

5-22-06
PLANS APPROVAL DATE

CONWAY CHU No. E15305 Exp. 3/31/07 ELECTRICAL

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

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

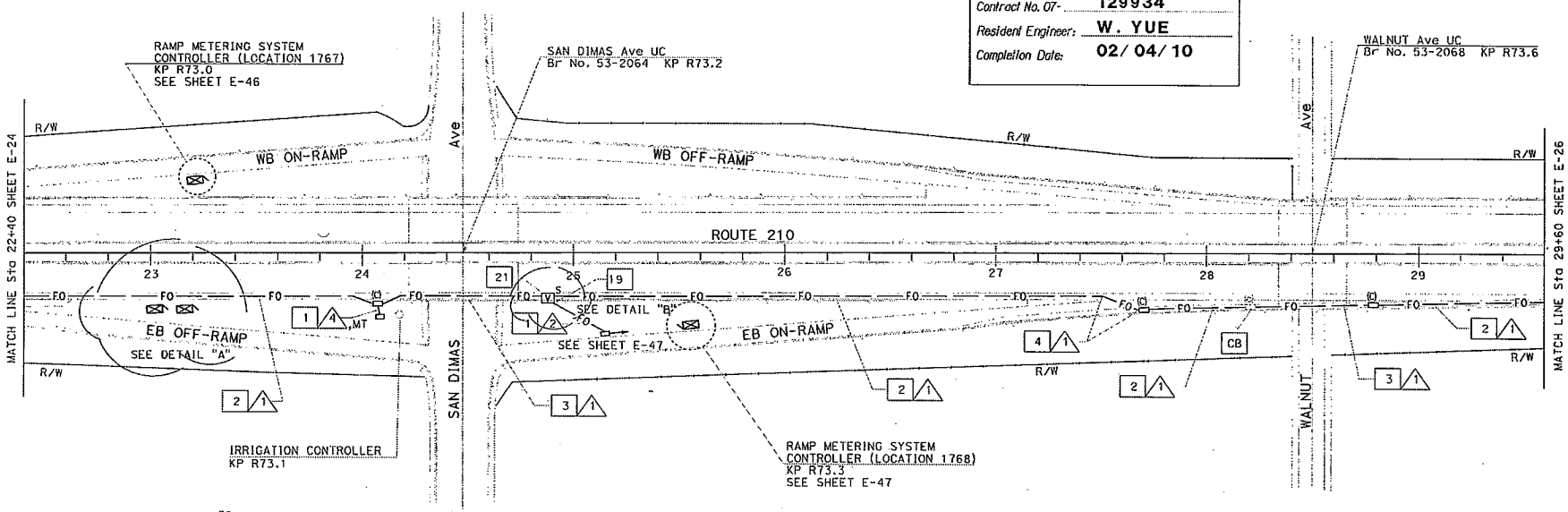
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)								
CONDUCTOR TYPE	FUNCTION	RUN						
		1					2	4
48SMFO CABLE	DATA DISTRIBUTION	1						
12SMFO CABLE	VOICE/DATA						1	
48SMFO CABLE	VIDEO DISTRIBUTION		1					
48SMFO CABLE	DATA/VIDEO			1				
INNERDUCT (SIZE 25)		1	1	1	1			
CONDUIT SIZE		103				103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

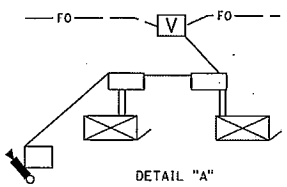
PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. ATTACH CONDUIT TO BRIDGE. SEE BRIDGE PLANS FOR DETAILS.
4. JACK CONDUIT BENEATH ROADWAY. SEE SHEET E-56 FOR DETAILS.
19. JACKED CONDUIT BETWEEN SOUNDWALL CIDH PILES.
21. INSTALL FIBER OPTIC SPLICE CLOSURE.

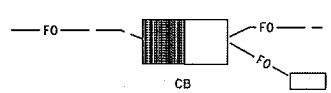
AS-BUILT

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





DETAIL "A"



DETAIL "B"

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:1000

E-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

PROJECT ENGINEER: CONWAY CHU
CALCULATED/DESIGNED BY: CC
CHECKED BY: JT
DATE REVISED BY: CC
3/02 8/05 DATE REVISED 7/05

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

CU 07388 | EA 129931

00-00-00

CONDUCTOR TYPE	FUNCTION	RUN 1				2	3
50P22 CABLE	VOICE/DATA	1					
6P22 CABLE	VOICE/DATA					1	2
24SMFO CABLE	VIDEO DISTRIBUTION		1				
24SMFO CABLE	MULTIPLEXED VIDEO AND DATA			1			
	SIZE 32 INNERDUCT		1	1			
	CONDUIT SIZE		103		103	53	53

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
4. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
5. TRENCH AND INSTALL CONDUIT IN SIDEWALK, SEE SHEET C-2 FOR DETAILS.
8. CORE THROUGH CONCRETE RETAINING/WING WALL, SEE SHEET C-3 FOR DETAILS.
10. COIL 10 m OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER.
11. INSTALL TELEPHONE BRIDGE AND A 12-PAIR TERMINAL BLOCK IN EXISTING CABINET. SEE SHEET E-73 FOR DETAILS.
12. CONNECT 6P22 TO BRIDGE/CONTROLLER. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
13. RECONFIGURE EXISTING BRIDGE AS SHOWN ON COMMUNICATION SYSTEM SCHEMATIC.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	210	40.0/61.8	78	179

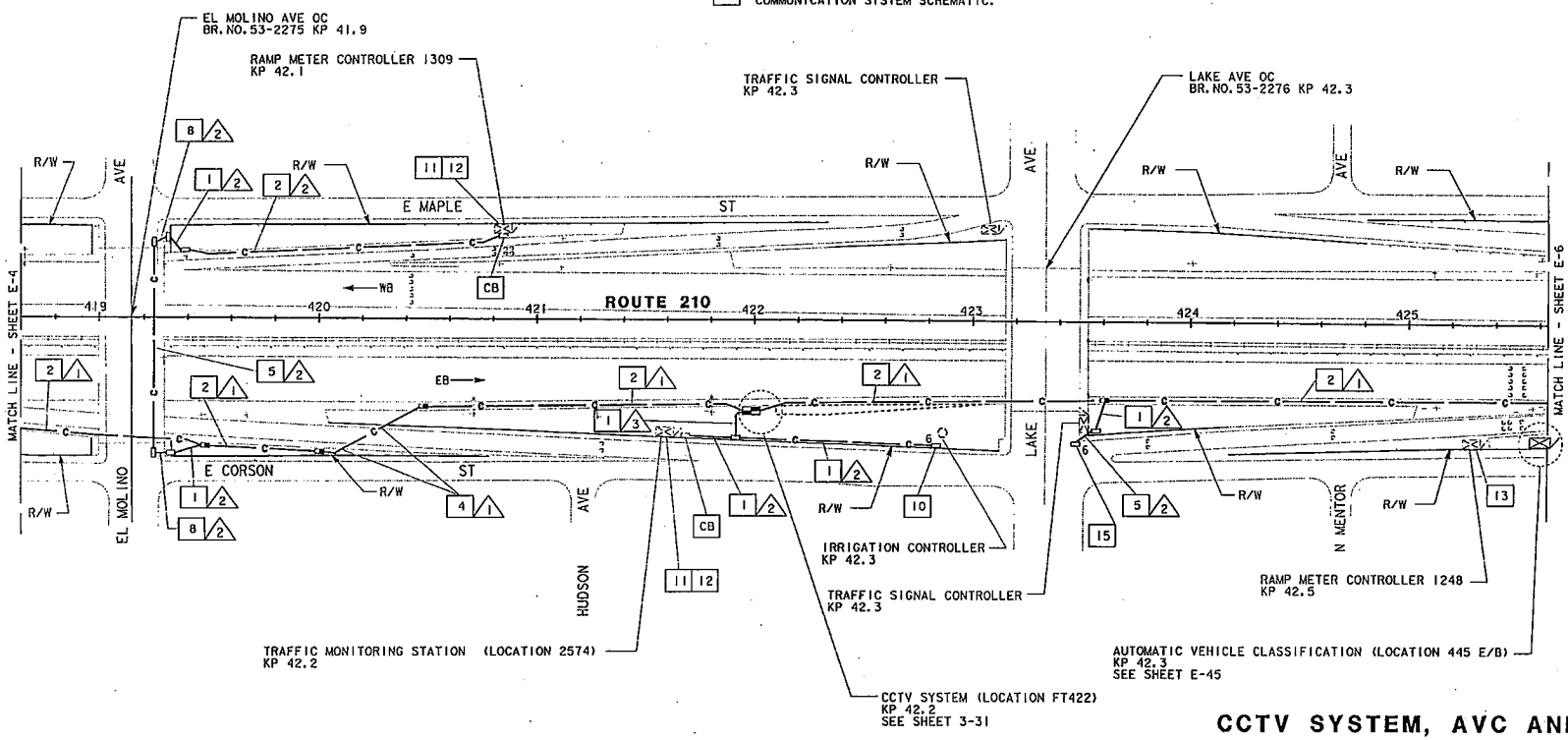
REGISTERED CIVIL ENGINEER 5/24/96

3-3-97
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER R. EVERETT No. C53217 EXP. 06/30/99 CIVIL STATE OF CALIFORNIA

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

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



AS-BUILT
Contract No. 07- 129914
Resident Engineer: MANNA, H.
Completion Date: 09/27/2000

CCTV SYSTEM, AVC AND COMMUNICATION SYSTEM ROUTING

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

SCALE: 1:1000

E-5

DATE 5/96	REVISED BY	CALCULATED/DESIGNED BY	SH
5/96	DATE REVISED	CHECKED BY	PE

PROJECT ENGINEER PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans

REVISION 00-00-00 TIME PLOTTED => 22-Feb-2001

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

USERNAME => HHuynh
DGN FILE => 712991u0522152031

CU 7396 EA 129911

USERID: HHuynh017NT6044 FILE: f:\projects\129911_ua\ab\712991u05.dgn DATE: Thu Feb 22 2001 TIME: 15:21

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	210	40.0 / 61.8	84	179

Peter Everett 5/24/96
REGISTERED CIVIL ENGINEER

3-3-97
PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER PETER R. EVERETT No. C53217 Exp. 06/30/99 CIVIL STATE OF CALIFORNIA

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

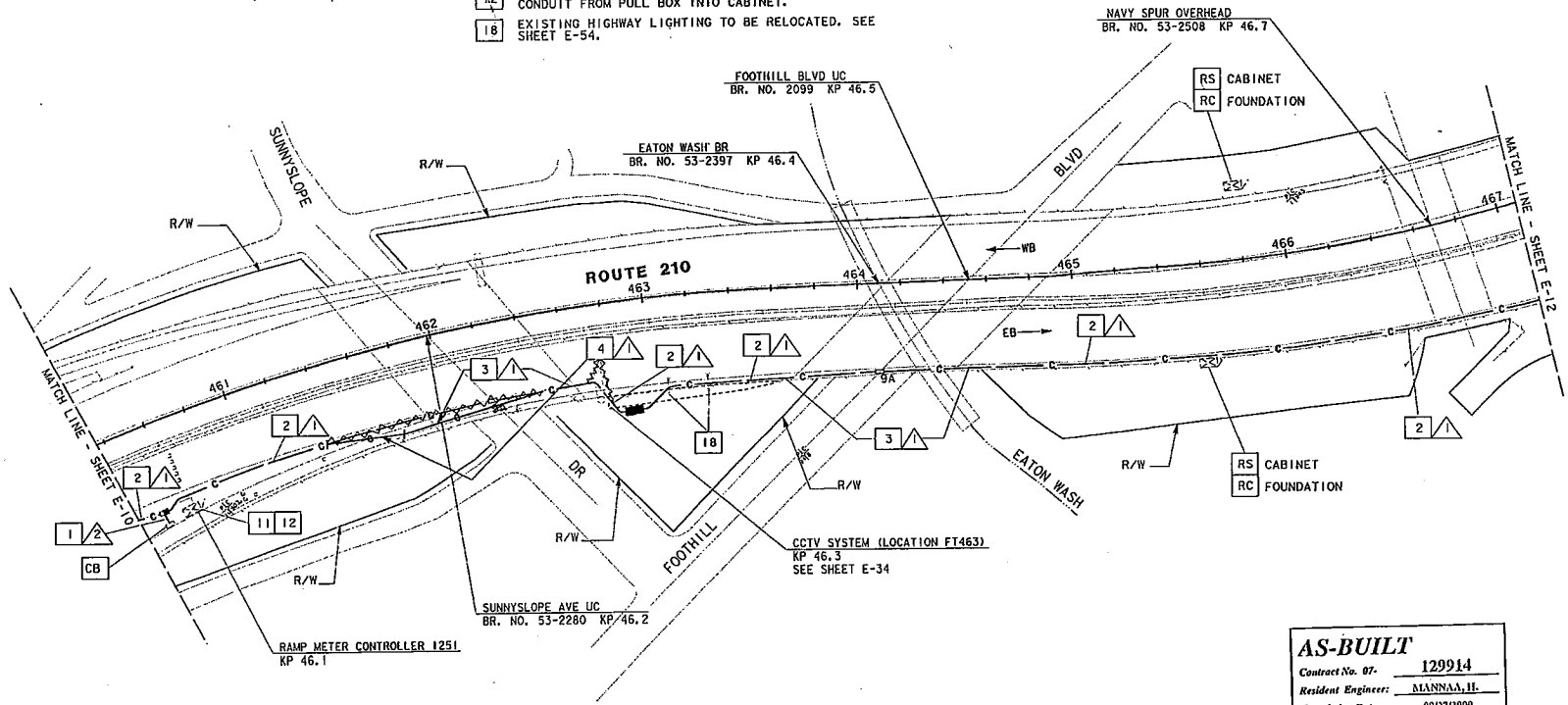
Caltrans Metric

CONDUCTOR TYPE	FUNCTION	RUN 1				RUN 2
50P22 CABLE	VOICE/DATA	1				
6P22 CABLE	VOICE/DATA					1
24SMFO CABLE	VIDEO DISTRIBUTION		1			
24SMFO CABLE	MULTIPLEXED VIDEO AND DATA			1		
	SIZE 32 INNERDUCT		1	1		
	CONDUIT SIZE		103		103	53

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. ATTACH CONDUIT TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
4. JACK CONDUIT BENEATH ROADWAY SEE SHEET C-7 FOR DETAILS.
11. INSTALL TELEPHONE BRIDGE AND A 12-PAIR TERMINAL BLOCK IN EXISTING CABINET. SEE SHEET E-73 FOR DETAILS.
12. CONNECT 6P22 TO BRIDGE/CONTROLLER. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
18. EXISTING HIGHWAY LIGHTING TO BE RELOCATED. SEE SHEET E-54.



AS-BUILT
Contract No. 07- 129914
Resident Engineer: MANNAA, H.
Completion Date: 09/27/2000

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

CCTV SYSTEM AND COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER: PAT SULLIVAN

CALCULATED/DESIGNED BY: SH — DATE: 5/96 — REVISED BY
CHECKED BY: PE — 5/96 — DATE REVISED

FILE NAME: TAT2DCWS1 DGN DATE: 15MAR96 1523 BB

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

USERNAME => HHuynh
DGN FILE => 712991ul126071423

CU 7396 | EA 129911

LEF RK/SSK 00-00-00 TIME PLOTTED => 26-Feb-2001

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	210	40.0/61.8	98	179

REGISTERED CIVIL ENGINEER 5/24/96

3-3-97
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
444 S. FLOWER STREET, SUITE 850
LOS ANGELES, CA 90071

REGISTERED PROFESSIONAL ENGINEER PETER R. EVERETT C53217 06/30/98 CIVIL STATE OF CALIFORNIA

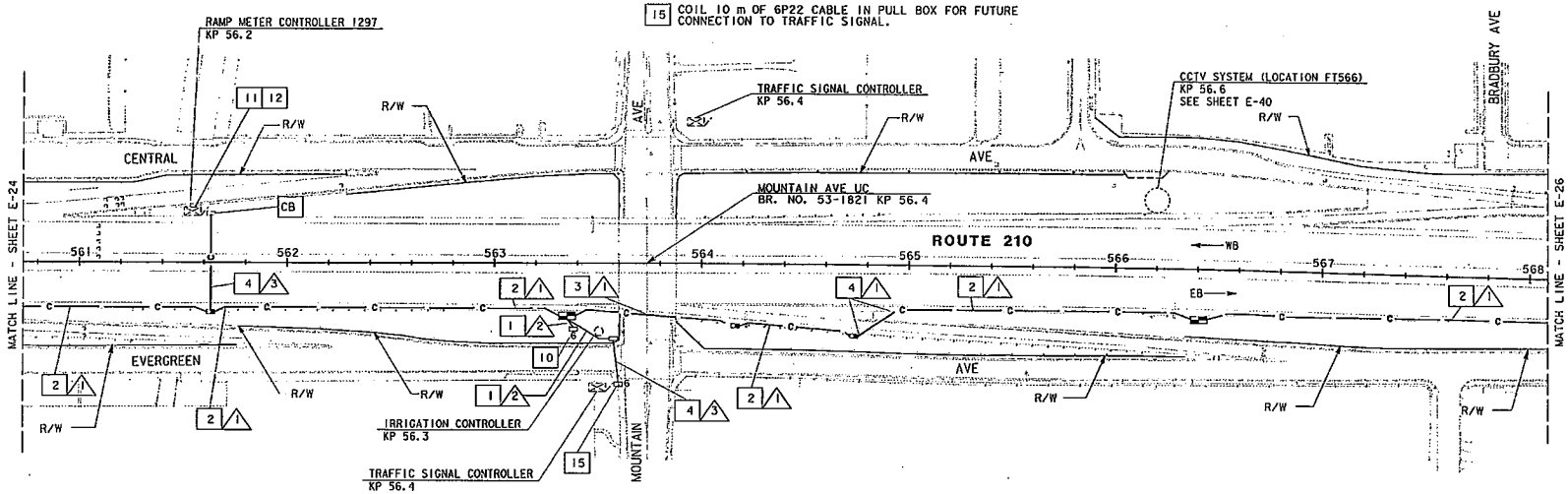
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans Metric

CONDUCTOR TYPE	FUNCTION	RUN 1				2	3
50P22 CABLE	VOICE/DATA	1					
6P22 CABLE	VOICE/DATA					1	1
24SMFO CABLE	VIDEO DISTRIBUTION		1				
24SMFO CABLE	MULTIPLEXED VIDEO AND DATA			1			
	SIZE 32 INNERDUCT		1	1			
	CONDUIT SIZE	103			103	53	78

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. ATTACH CONDUITS TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
4. JACK CONDUITS BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
10. COIL 10 m OF 6P22 CABLE IN PULLBOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER.
11. INSTALL TELEPHONE BRIDGE AND A 12-PAIR TERMINAL BLOCK IN EXISTING CABINET. SEE SHEET E-73 FOR DETAILS.
12. CONNECT 6P22 TO BRIDGE/CONTROLLER. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
15. COIL 10 m OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL.



AS-BUILT
Contract No. 07- 129914
Resident Engineer: MANNAA, H.
Completion Date: 09/27/2000

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

CCTV SYSTEM AND COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PROJECT ENGINEER: PAT SULLIVAN
CALCULATED/DESIGNED BY: SH DATE 5/96
CHECKED BY: PE 5/96
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
TIME PLOTTED => 13-Mar-1997

FILE NAME: TASCPOSTA 0E25.DGN DATE: 1997/03/13 15:42:30

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

USERNAME => trphlis
DGN FILE => [ESC-OE]712991u25.dgn

CU 7396 EA 129911

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	210	40.0/61.8	99	179

Peter Everett 5/24/96
REGISTERED CIVIL ENGINEER

3-3-97
PLANS APPROVAL DATE

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

PETER R. EVERETT No. C53217 Exp. 06/30/99 CIVIL STATE OF CALIFORNIA

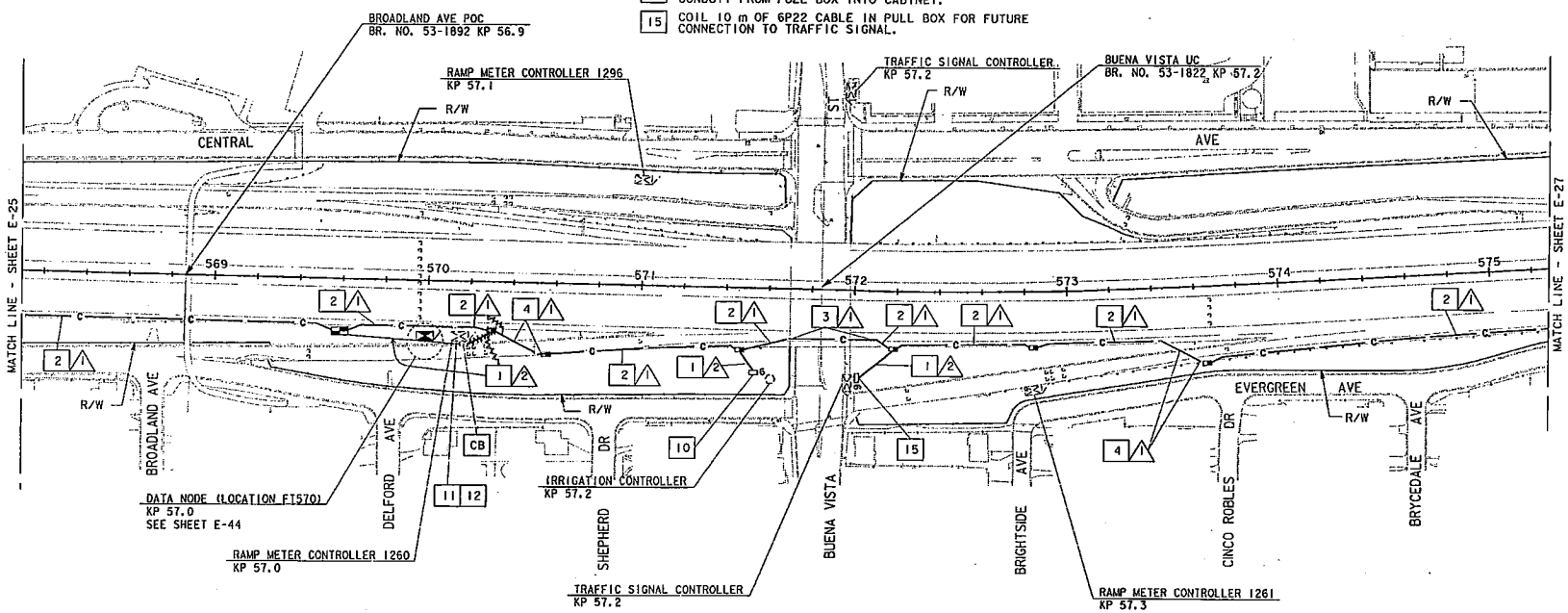
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans Metric

CONDUCTOR TYPE	FUNCTION	RUN 1				RUN 2
50P22 CABLE	VOICE/DATA	1				
6P22 CABLE	VOICE/DATA					1
24SMFO CABLE	VIDEO DISTRIBUTION		1			
24SMFO CABLE	MULTIPLEXED VIDEO AND DATA			1		
	SIZE 32 INNERDUCT					
	CONDUIT SIZE	10			10	5

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. ATTACH CONDUIT TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
4. JACK CONDUITS BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
10. COIL 10 m OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER.
11. INSTALL TELEPHONE BRIDGE AND A 12-PAIR TERMINAL BLOCK IN EXISTING CABINET. SEE SHEET E-73 FOR DETAILS.
12. CONNECT 6P22 TO BRIDGE/CONTROLLER. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
15. COIL 10 m OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO TRAFFIC SIGNAL.



AS-BUILT
Contract No. 07- 129914
Resident Engineer: MANNAA, H.
Completion Date: 09/27/2000

DATA NODE AND COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-26

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER: PAT SULLIVAN

CALCULATED/DESIGNED BY: SH
CHECKED BY: PE
DATE: 5/96
REVISED BY
DATE REVISED

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

USERNAME => HHuynh
DGN FILE => 712991u262EC72801

CU 7396
EA 129911

TIME PLOTTED => 26-Feb-2001
LAST REVISION 00-00-00

USERID: HHuynh@T7NT6044 FILE: f:\projects\129911_ua\ob\712991u26.dgn DATE: Mon Feb 26 2001 TIME: 07:28

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUCTOR TYPE	FUNCTION	RUN 1			2	3
50P22 CABLE	VOICE/DATA	1				
6P22 CABLE	VOICE/DATA				1	1
24SMFO CABLE	VIDEO DISTRIBUTION		1			
24SMFO CABLE	MULTIPLEXED VIDEO AND DATA			1		
	SIZE 32 INNERDUCT		1	1		
	CONDUIT SIZE	103		103	53	78

NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN SOIL.
2. TRENCH AND INSTALL CONDUIT IN ASPHALT.
3. ATTACH CONDUIT TO BRIDGE. SEE SHEET C-2 FOR DETAILS.
4. JACK CONDUIT BENEATH ROADWAY. SEE SHEET C-7 FOR DETAILS.
10. COIL 10 m OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER.
17. COIL 10 m OF 6P22 CABLE IN PULL BOX FOR FUTURE CONNECTION TO CENSUS STATION.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	210	40.0/61.8	100	179

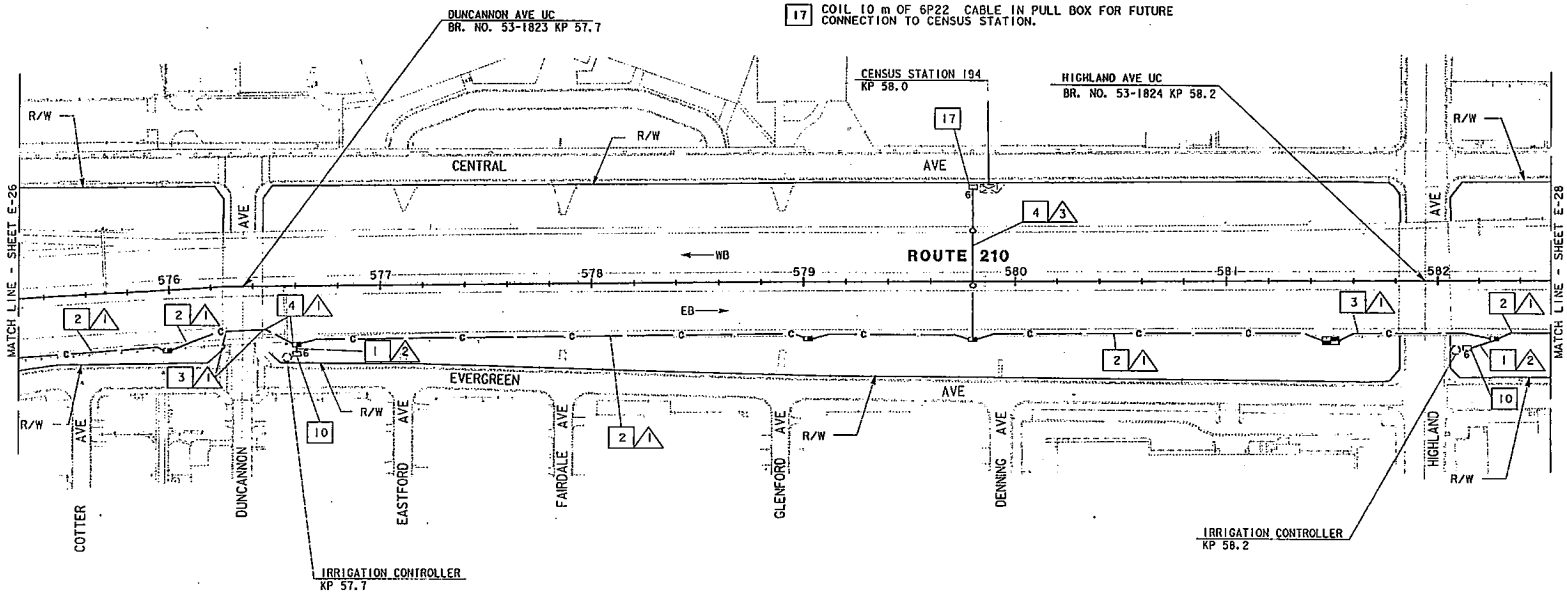
REGISTERED CIVIL ENGINEER 5/24/96

3-3-97
PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER PETER R. EVERETT No. C53217 Exp. 06/30/99 CIVIL STATE OF CALIFORNIA

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



AS-BUILT
Contract No. 07- 129914
Resident Engineer: MANNAA, H.
Completion Date: 09/27/2000

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

COMMUNICATION SYSTEM ROUTING

SCALE: 1:1000

E-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER: PAT SULLIVAN

CALCULATED/DESIGNED BY: SH | DATE REVISED BY: 5/96
CHECKED BY: PE | 5/96 | DATE REVISED

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

USERNAME => fronnda
DGN FILE => (ESC-DEJ71299lu27.psf

CU 7396 | EA 129911

TIME PLOTTED => 07-Mar-1997
00-00-00