INFORMATION HANDOUT

For Contract No. 07-257104
At 07-LA-405-0.0/29.2, 39.0/48.6

Identified by
Project ID 0713000161

07-257104
07-LA-405-0.0/29.2, 39.0/48.6
Project ID 071300016

MATERIALS INFORMATION

List of the preconstruction status-check results

Fiber Optic As-Built Plans

List of Preconstruction Operational Status-Check for HAR and CMS Systems
EA 07-257104 / EFIS 0713000161

Highway Advisory Radio System (Route 405)

PM	Location	Status
0.01	ATMS Loc ID #12/405SB/405-605 Jn.	Good
33	ATMS Loc ID #10/405SB/Sunset Blvd	Not Working
33.056	ATMS Loc ID#26/405NB/Sunset Blvd	Not Working
37.04	ATMS Loc ID#27/405SB/Skirball Ctr	Not Working
39.4	ATMS Loc ID#9/405NB/405-105 I-chg.	Not Working

Changeable Message Sign System (Route 405)

PM	Location	Status
19.77	ATMS Loc ID#1/405NB/s/o ElSegundo	Good
17.91	ATMS Loc ID#2/405NB/s/o Inglewood	Good
35.74	ATMS Loc ID#23/405NB/s/o Mulholland	Good
41.86	ATMS Loc ID#29/405SB/n/o Victory Blvd	Good
26.66	ATMS Loc ID#35/405SB/Venice Blvd	Good
23.4	ATMS Loc ID#36/405SB/n/o Manchester Blvd	Good
3.72	ATMS Loc ID#38/405NB/n/o Lakewood Blvd	not Working
14.54	ATMS Loc ID#39/405SB/Western Ave	Good
11.18	ATMS Loc ID#48/405NB/Avalon Blvd	Good
9.48	ATMS Loc ID#49/405SB/Wilmington Ave	Good
28.09	ATMS Loc ID#58/405NB/n/o Venice Blvd	Good
21.92	ATMS Loc ID#87/405NB/s/o Seal Beach Blvd	Good
44.88	ATMS Loc ID#101/405NB/Nordhoff Blvd	Good
24.5	ATMS Loc ID#121/405NB/Howard Hughes Pkwy	Good

EA 257104/EFIS 0713000161

CAMERA_ID	ROUTE	DIRECTION	POSTMILE	NAME	ACTIVE	HUB
323	405	S	0.1	ROUTE 405 / 605	Y	LAX
324	405	N	1	PALO VERDE AVE	Y	LAX
325	405	S	2.4	BELLFLOWER BLVD	Y	LAX
327	405	N	3.4	LAKEWOOD BLVD	Y	LAX
328	405	N	4.7	CHERRY	Y	LAX
329	405	S	5.5	ORANGE AVE	Y	LAX
330	405	S	6.1	ATLANTIC AVE	Y	LAX
332	405	N	7.4	W/O PACIFIC PLACE	Y	LAX
333	405	S	8.1	SANTE FE AVE	Y	LAX
334	405	S	8.6	EAST OF ALAMEDA ST	Y	LAX
335	405	S	9.5	WILMINGTON AVE	Y	LAX
336	405	S	10.5	CARSON ST	Y	LAX
337	405	N	11.1	213TH STREET	Y	LAX
339	405	N	11.6	NO AVALON BLVD	Y	LAX
340	405	S	12.5	MAIN ST	Y	LAX
343	405	N	13.2	WEST OF RTE 110	Y	LAX
344	405	N	13.8	NORMANDIE AVE	Y	LAX
345	405	S	14.5	WESTERN AVE	Y	LAX
346	405	S	15.9	CRENSHAW BLVD	Y	LAX
348	405	N	16.6	ARTESIA BLVD	Y	LAX
349	405	S	17.7	HAWTHORNE	Y	LAX
350	405	S	18.9	SO ROSECRANS	Y	LAX
351	405	S	19.7	135TH ST	Y	LAX
997	405	N	20	NTCIP CCTV on I-405	N	
352	405	N	20.7	120TH ST	Y	LAX
371	405	S	21.2	W 105 TO S 405 T-ENT	Y	LAX
372	405	S	21.2	W 105 TO S 405 LOC2	Y	LAX
373	405	S	21.2	W 105 TO S 405 LOC3	Y	LAX
374	405	S	21.2	W 105 TO S 405 LOC4	Y	LAX
375	405	S	21.2	W 105 TO S 405 LOC5	Y	LAX
376	405	S	21.2	W 105 TO S 405 LOC6	Y	LAX
377	405	S	21.2	W 105 TO S 405 T-EXT	Y	LAX
378	405	N	21.2	E 105 TO LA CIENEGA	Y	LAX
379	405	N	21.2	E 105 TO N 405 T-ENT	Y	LAX
380	405	N	21.2	E 105 TO N 405 LOC2	Y	LAX
381	405	N	21.2	E 105 TO N 405 LOC3	Y	LAX
382	405	N	21.2	E 105 TO N 405 LOC4	Y	LAX
383	405	N	21.2	E 105 TO N 405 T-EXT	Y	LAX
354	405	N	21.4	SO LENNOX	Y	LAX
355	405	N	22.4	N/O CENTURY BLVD	Y	LAX
356	405	S	23.3	MANCHESTER BLVD	Y	LAX
357	405	S	23.4	N/O FLORENCE	Y	LAX
358	405	N	23.8	W/O LA CIENEGA BLVD	Y	LAX
359	405	N	24.5	LA TIJERA	Y	LAX

360	405	S	25.1	HUGHES PARKWAY	Y	LAX
361	405	S	25.5	SEPULVEDA/CENTINELLA	Y	LAX
362	405	S	26.7	SO BRADDOCK DRIVE	Y	LAX
363	405	N	27.8	VENICE	Y	LAX
364	405	S	28.5	SOUTH OF PALMS AVE	Y	LAX
736	405	N	28.84	S/O NATIONAL BLVD	N	
675	405	S	39.1	VENTURA BLVD	Y	NHD
747	405	S	39.17	N/O VENTURA BLVD	N	
676	405	S	39.8	NO ROUTE 101	Y	NHD
677	405	N	40.7	NO BURBANK BLVD	Y	NHD
679	405	S	42	NO VANOWEN ST	Y	NHD
681	405	S	43.1	STAGG ST	Y	NHD
682	405	N	44.5	SO NORDHOFF ST	Y	NHD
683	405	S	45.6	SO LASSEN ST	Y	NHD
684	405	S	46.8	SOUTH OF RTE 118	Y	NHD

EA 257104/EFIS 0713000161

LDS_ID	RMS/TMS ID	ROUTE	DIRECTION	POSTMILE	NAME	Status
771811	2418	405	S	0.11	N. OF 605	Good-NB
714776	3006	405	N	0.55	STUDEBAKER	Good
714777	3007	405	S	0.9	STEARNS	Good
714778	3008	405	N	1.1	PALO VERDE	Good
714779	3009	405	S	1.5	WOODRUFF	Good
714780	3010	405	N	1.73	WOODRUFF	Good
714782	3012	405	N	2.16	BELLFLOWER 1	Bad
714781	3011	405	S	2.19	BELLFLOWER 1	Good
714783	3013	405	S	2.45	BELLFLOWER 2	Bad
714784	3014	405	N	2.45	BELLFLOWER 2	Bad
715674	2049	405	S	2.74	CLARK	Good
714785	3015	405	S	2.97	WILLOW	Good
714786	3016	405	N	3.28	LAKEWOOD1	Good
714788	3018	405	N	3.44	LAKEWOOD2	Good
714787	3017	405	S	3.47	LAKEWOOD 1	Good
715673	2048	405	N	3.82	REDONDO	Bad
771832	2123	405	N	4.21	TEMPLE	Bad
714789	3019	405	S	4.47	SPRING	Good
714790	3020	405	N	4.57	SPRING	Good
714791	3021	405	N	4.81	CHERRY 1	Good
714792	3022	405	S	4.81	CHERRY 1	Good
714793	3023	405	N	4.92	CHERRY 2	Good
714794	3024	405	S	5.38	ORANGE	Good
714795	3025	405	N	5.46	ORANGE	Good
714797	3027	405	N	5.99	ATLANTIC 1	Bad
714796	3026	405	S	6	ATLANTIC 1	Good
714798	3028	405	S	6.15	ATLANTIC 2	Good
715781	2535	405	N	6.27	LONG BEACH	Good
714799	3029	405	S	6.42	LONG BEACH	Good
714800	3030	405	N	6.56	WARDLOW	Good
771849	2476	405	N	6.78	PACIFIC 1	Good
714801	3031	405	N	7.22	PACIFIC	Good
771867	2429	405	S	7.63	SO. OF 710	Good
714846	3079	405	N	8.02	SANTA FE	Good
714845	3078	405	S	8.05	SANTA FE	Good
771884	2124	405	S	8.45	RIVER AVE	Bad
714844	3077	405	S	8.63	ALAMEDA	Bad
714847	3080	405	N	8.69	ALAMEDA	Bad
771901	2047	405	S	9.09	WESTWARD	Good
714848	3081	405	N	9.47	WILMINGTON	Bad
714843	3076	405	S	9.47	WILMINGTON	Bad
771918	2125	405	S	10.03	LUCERNE ST	Bad
714842	3075	405	S	10.49	CARSON	Good
714849	3082	405	N	10.66	CARSON	Good

771927	2046	405	S	10.9	213TH ST	Bad
774316	3209	405	S	11.2	AVALON 1	Good
714850	3083	405	N	11.32	AVALON	Good
714841	3074	405	S	11.32	AVALON 2	Good
715672	2045	405	N	11.82	TRUCK SCALE 1	Bad
715671	2044	405	S	12.05	TRUCK SCALE 2	Bad
714840	3073	405	S	12.57	MAIN	Good
772983	2264	405	S	12.6	FROM NB 110 CONN	Bad
772468	2477	405	N	13	CONN TO NB 110	Bad
715770	2480	405	N	13.18	N OF 110	Good
714816	3046	405	N	13.31	VERMONT	Good
715104	3374	405	S	13.686	NORMANDIE 1	Good
714817	3047	405	N	13.81	NORMANDIE1	Good
714818	3048	405	N	14.34	WESTERN	Good
715103	3373	405	S	14.52	190TH	Bad
715670	2043	405	N	14.96	VAN NESS	Bad
714819	3049	405	N	15.43	CRENSHAW BLVD	Good
715102	3372	405	S	15.51	CRENSHAW	Good
715669	2042	405	S	16	YUKON	Good
715101	3371	405	S	16.47	ARTESIA 1	Good
714820	3050	405	N	16.66	ARTESIA 2	Good
714821	3051	405	N	17.01	REDONDO BEACH	Good
714822	3052	405	N	17.52	HAWTHORNE	Good
715100	3370	405	S	17.64	HAWTHORNE	Good
715099	3369	405	S	18.2	INGLEWOOD 1	Good
714823	3053	405	N	18.2	INGLEWOOD 1	Good
715098	3368	405	S	18.3	INGLEWOOD 2	Good
714824	3054	405	N	18.35	INGLEWOOD 2	Good
715097	3367	405	S	19.16	ROSECRANS1	Good
714825	3055	405	N	19.16	ROSECRANS 1	Good
714826	3056	405	N	19.36	ROSECRANS 2	Bad
715675	2054	405	N	19.57	137TH	Good
715859	2918	405	S	20.1	FM RT 105	Good
714827	3057	405	N	20.13	EL SEGUNDO 1	Good
715096	3366	405	S	20.3	EL SEGUNDO 1	Good
714828	3058	405	N	20.39	EL SEGUNDO 2	Bad
715570	4521	405	S	20.6	125TH	Bad
715676	2055	405	N	20.6	122ND	Bad
715095	3365	405	S	21.08	IMPERIAL 1	Bad
715083	3352	405	N	21.1	IMPERIAL 1	Bad
715094	3364	405	S	21.3	IMPERIAL 2	Bad
715858	2915	405	N	21.365	FM 105 WB	Good
715084	3353	405	N	21.39	IMPERIAL 2	Bad
715093	3363	405	S	22	CENTURY 1	Bad
715092	3361	405	S	22.34	OLIVE	Bad
765152	4517	405	S	22.4	98TH / WB CENTURY	Good
715085	3354	405	N	22.68	CENTURY 1	Bad

715086	3355	405	N	22.7	CENTURY 2	Good
715087	3356	405	N	23.36	MANCHESTER 1	Good
715088	3357	405	N	23.47	MANCHESTER 2	Good
715091	3360	405	S	23.61	LA CIENEGA	Bad
715089	3358	405	N	24.25	LA TIJERA	Good
715090	3359	405	S	24.25	LA TIJERA	Good
771942	3196	405	S	24.9	HOWARD HUGHES	Good
771959	4555	405	N	25.1	HOWARD HUGHES	Good
715730	2251	405	S	25.41	CENTINELA	Good
714957	3195	405	S	25.83	JEFFERSON	Good
769490	3197	405	N	26	JEFFERSON	Good
715759	2420	405	S	26.15	N OF 90	Bad
714956	3194	405	S	26.84	BRADDOCK	Good
714960	3199	405	N	27.35	CULVER	Good
714961	3200	405	S	27.8	VENICE	Good
714955	3193	405	N	27.81	VENICE	Good
772422	2448	405	N	28.1	N/O VENICE	Good
715677	2059	405	N	28.52	WESTMINSTER	Good
772441	2442	405	S	28.54	PALMS BLVD	Good
714954	3192	405	S	29.16	NATIONAL	Good
715120	3393	405	N	38.74	VENTURA	Bad
715234	3513	405	S	39.09	VENTURA	Good
715123	2070	405	S	40	BURBANK 1	Good
767044	3396	405	S	40.08	BURBANK 2	Good
715233	3512	405	N	40.33	BURBANK 2	Good
767338	2071	405	S	40.9	OXNARD ST	Good
765262	3394	405	S	41.31	VICTORY 1	Good
715232	3511	405	N	41.48	VICTORY	Good
765270	3395	405	S	41.48	VICTORY 2	Good
771780	2072	405	S	41.9	VANOWEN	Good
715231	3510	405	S	42.26	SHERMAN 1	Good
715229	3508	405	S	42.45	SHERMAN 2	Good
715230	3509	405	N	42.46	SHERMAN	Good
767354	2073	405	S	43.2	STAGG ST	Good
715228	3507	405	S	43.68	ROSCOE	Bad
715227	3506	405	N	43.87	ROSCOE	Good
715226	3505	405	S	44.66	NORDHOFF	Good
715225	3504	405	N	44.87	NORDHOFF	Good
771796	2075	405	S	45.7	LASSEN	Good
715224	3503	405	S	46.1	DEVONSHIRE 1	Good
771754	4371	405	N	46.2	DEVONSHIRE 1	Good
715223	3502	405	S	46.21	DEVONSHIRE 2	Good
771772	4372	405	N	46.4	DEVONSHIRE 2	Good
771985	4377	405	S	47.61	SAN FERNANDO	Good
771972	4376	405	S	47.8	RINALDI	Good
772001	4373	405	N	47.94	RINALDI	Good
772015	2424	405	N	48.3	FM 5 to 405	Good

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1002	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 ELECTRICAL — STATE OF CALIFORNIA

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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

Caltrans Metric

GENERAL NOTES: (SHEETS E-2 TO E-18)

1. SIZE OF CONDUIT FOR FREEWAY LIGHTING DISTRIBUTION SHALL BE 78C, UNLESS OTHERWISE NOTED ON THE PLANS.

PROJECT NOTES: (SHEETS E-2 TO E-18)

1 RC EXISTING CONDUCTORS. INSTALL 2#6 CONDUCTORS.

2 INSTALL NEW FOUNDATION.

3 INSTALL SIZE 78 TYPE 3 CONDUCTORS BY OTHERS (PER UTILITY REQUIREMENTS).

4 RC EXISTING 175 W mv LAMP AND INTERGRAL BALLAST. INSTALL 85 W ISL LAMP AND INTEGRAL BALLAST.

5 USE EXISTING ELECTROLIER FOR TEMPORARY LIGHTING DURING CONSTRUCTION.

CIRCUIT WIRING DIAGRAM LEGEND: (SHEETS E-18 TO E-29)

- ◯ INSTALL 310 W HPS LAMP AND INTEGRAL BALLAST.
- ■ INSTALL 175 W MV LAMP AND INTEGRAL BALLAST.
- —— INSTALL NEW CONDUCTORS.
- ◌ EXISTING HIGH VOLTAGE 400 WATT mv LAMP AND BALLAST TO REMAIN
- ⬚ EXISTING SIGN ILLUMINATION LAMP AND BALLAST TO REMAIN
- —— EXISTING CONDUCTOR TO REMAIN.
- • SPLICE CONDUCTOR.
- <> EXISTING SPLICE.
- ⊘ EXISTING HIGH VOLTAGE CITY STREET LIGHTING TO REMAIN.
- ems EXISTING EXITINGUISHABLE MESSAGE SIGN
- EMS NEW EXTINGUISHABLE MESSAGE SIGN

LEGEND FOR LIGHTING LAYOUT (SHEETS E-2 TO E-18)

- EXISTING #8,5 kV CABLE TO REMAIN
- EXISTING HIGH VOLTAGE ELECTROLIER TO REMAIN IN PLACE

ABBREVIATION: (SHEETS E-2 TO E-18)

ISL- INDUCTION SIGN LIGHTING

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-1

DATE	REVISED BY	DATE REVISED

CALCULATED/ DESIGNED BY
CHECKED BY

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:43

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

USERNAME => s110796
DGN FILE => 71178uu001.dgn

CU 07382

EA 1178U1

NOTE:

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

AS-BUILT

Contract No. 07- **1178U4**

Resident Engineer: **J. VENTOCILLA**

Completion Date: **06/10/2010**

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1003	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 ELECTRICAL — STATE OF CALIFORNIA

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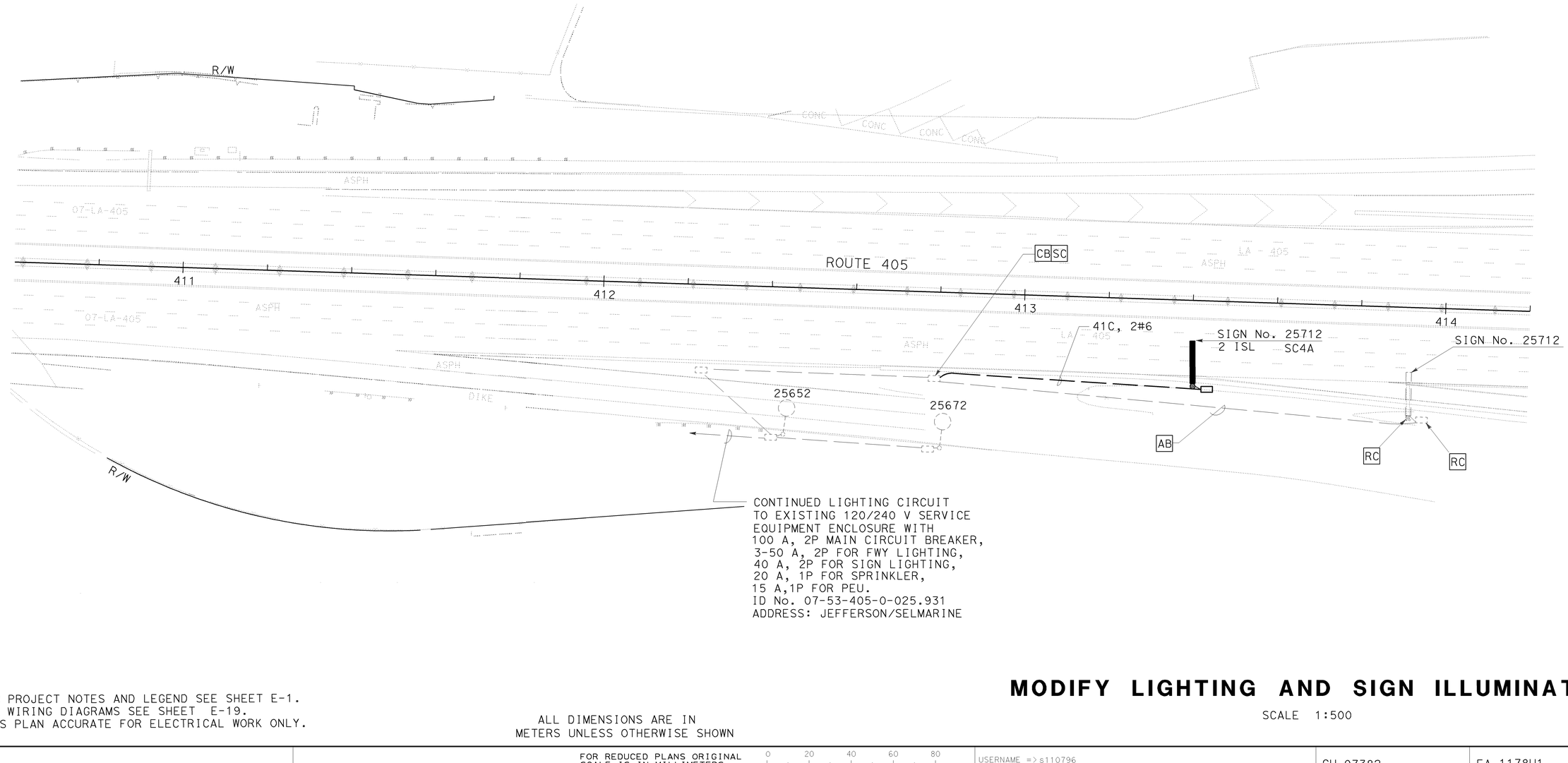

CONTINUED LIGHTING CIRCUIT
TO EXISTING 120/240 V SERVICE
EQUIPMENT ENCLOSURE WITH
100 A, 2P MAIN CIRCUIT BREAKER,
3-50 A, 2P FOR FWY LIGHTING,
40 A, 2P FOR SIGN LIGHTING,
20 A, 1P FOR SPRINKLER,
15 A,1P FOR PEU.
ID No. 07-53-405-0-025.931
ADDRESS: JEFFERSON/SELMARINE

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEET E-19.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-2

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY

CHECKED BY

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:43

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

USERNAME => s110796
DGN FILE => 71178uu002.dgn

CU 07382

EA 1178U1

NOTE:

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

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1004	1697

Johannes O Anserlian 5-15-03
REGISTERED CIVIL ENGINEER DATE

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 ELECTRICAL — STATE OF CALIFORNIA

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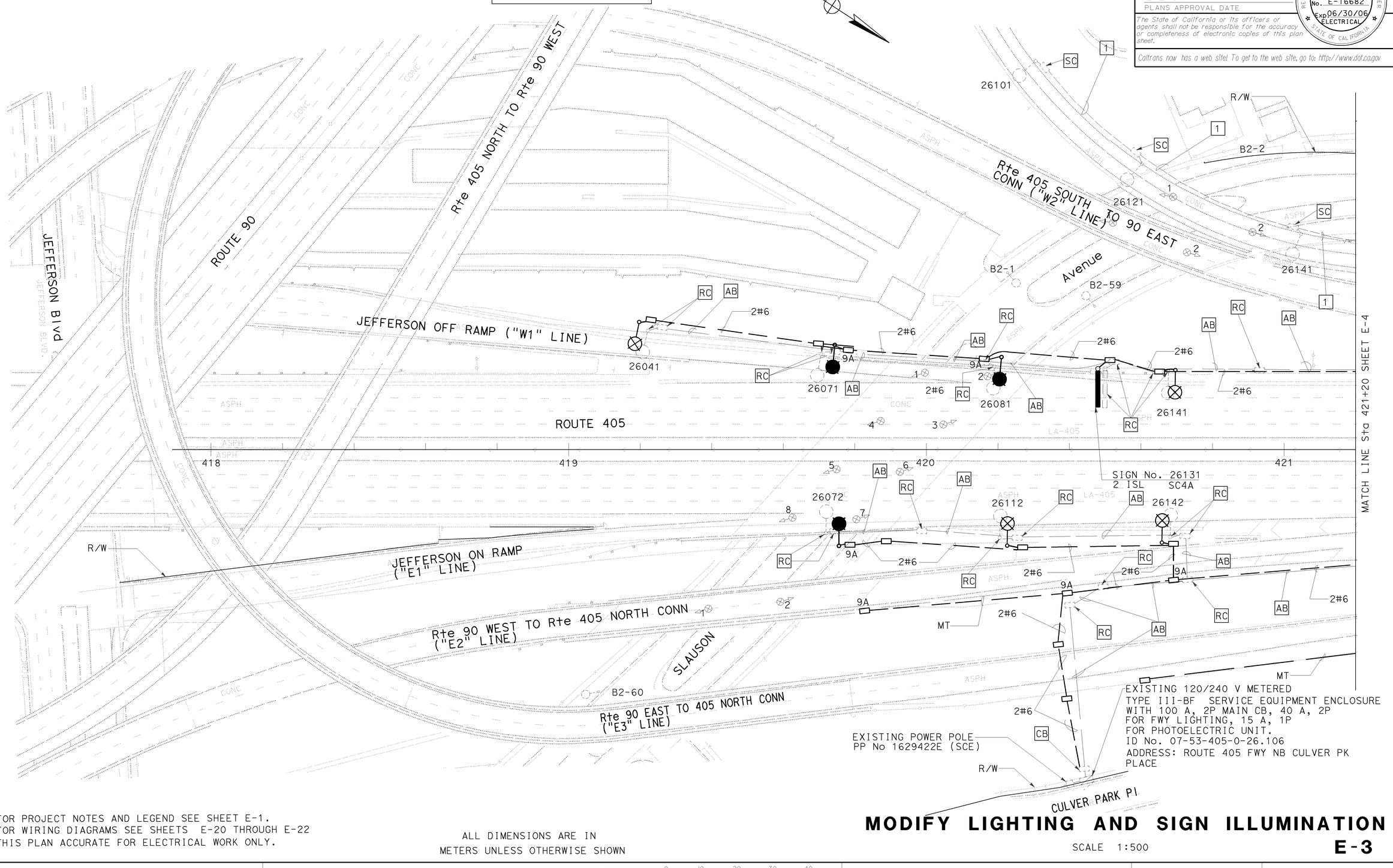
DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: K. NGUYEN
CHECKED BY: LEWEN KUO

PROJECT ENGINEER: JOHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN



FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEETS E-20 THROUGH E-22
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-3

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:43

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu003.dgn

CU 07244

EA 1178U1

NOTE:

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1005	1697

Caltrans Metric

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 ELECTRICAL — STATE OF CALIFORNIA

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DATE REVISED BY — DATE REVISED

CALCULATED/ DESIGNED BY — CHECKED BY

PROJECT ENGINEER — OHANNES ANSERLIAN

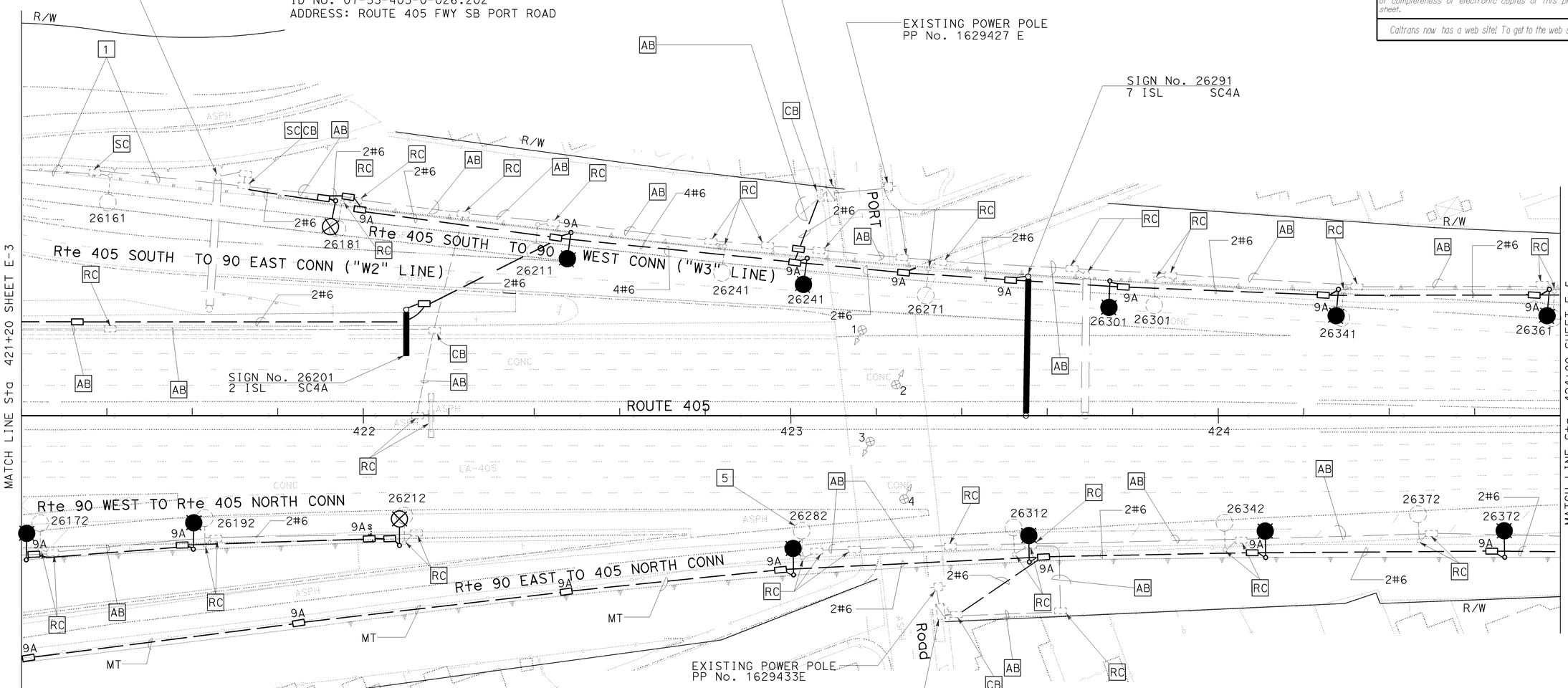
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — TRAFFIC DESIGN

4 SIGN No. 26191 4 ISL SC4A

EXISTING 120/240 V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100 A, 2P MAIN CB, 50 A, 240 V, 2P FOR FWY LTG, 40 A, 240 V, 2P FWY LTG, 2-40 A, 2P, 240 V SIGN LTG, 15 A, 1P FOR PHOTOELECTRIC CONTROL.
ID No. 07-53-405-0-026.202
ADDRESS: ROUTE 405 FWY SB PORT ROAD

EXISTING POWER POLE PP No. 1629427 E

SIGN No. 26291 7 ISL SC4A



EXISTING 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100 A, 2P CB 40 A, 2P FOR FWY LIGHTING, 15 A, 1P FOR PHOTOELECTRIC CONTROL, 20 A, 1P FOR SPRINKLER.
ID No. 07-53-405-0-026.320
ADDRESS: ROUTE 405 NB PORT ROAD

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEETS E-20 & E-22 THROUGH E-24.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-4

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:43

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

USERNAME => s110796
DGN FILE => 71178uu004.dgn

CU 07382 | EA 1178U1

NOTE:

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1006	1697

Johannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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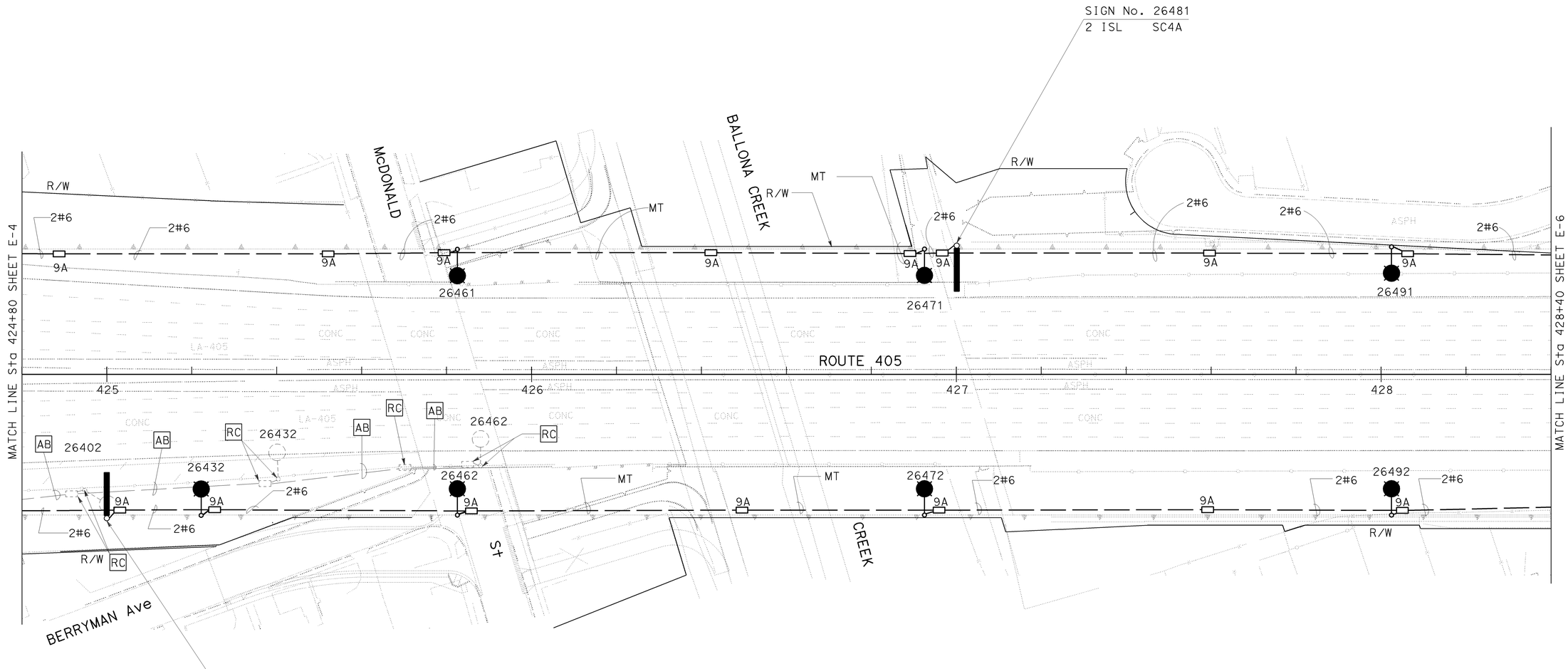

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEETS E-22 & E-24.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-5

DATE	REVISED BY	DATE REVISED
	CALCULATED/ DESIGNED BY	CHECKED BY

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:43

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

USERNAME => s110796
DGN FILE => 71178uu005.dgn

CU 07382

EA 1178U1

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1007	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

OHANNES ANSERLIAN No. E-16682 Exp 06/30/06 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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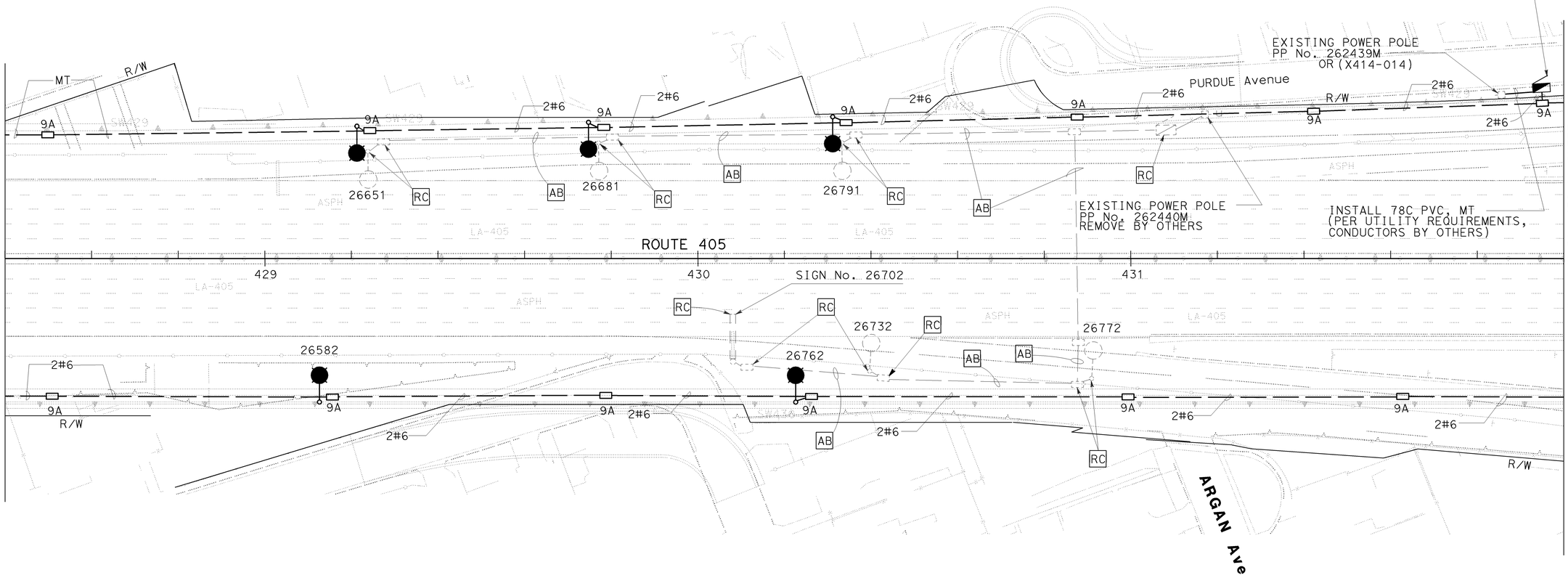
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE
WITH 100 A, 2P MAIN CB, 30 A, 2P CB FOR SIGN AND LIGHTING,
30 A, 1P FOR RAMP METERING AND 20 A, 1P FOR IRRIGATION CONTROL.
ID No. 07-53-405-0-026.810
ADDRESS: 4715 ½ PURDUE AVE.



FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEET E-25.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-6

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:43

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

USERNAME => s110796
DGN FILE => 71178uu006.dgn

CU 07382

EA 1178U1

NOTE:

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

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1008	1697

Caltrans Metric

O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 — ELECTRICAL — STATE OF CALIFORNIA

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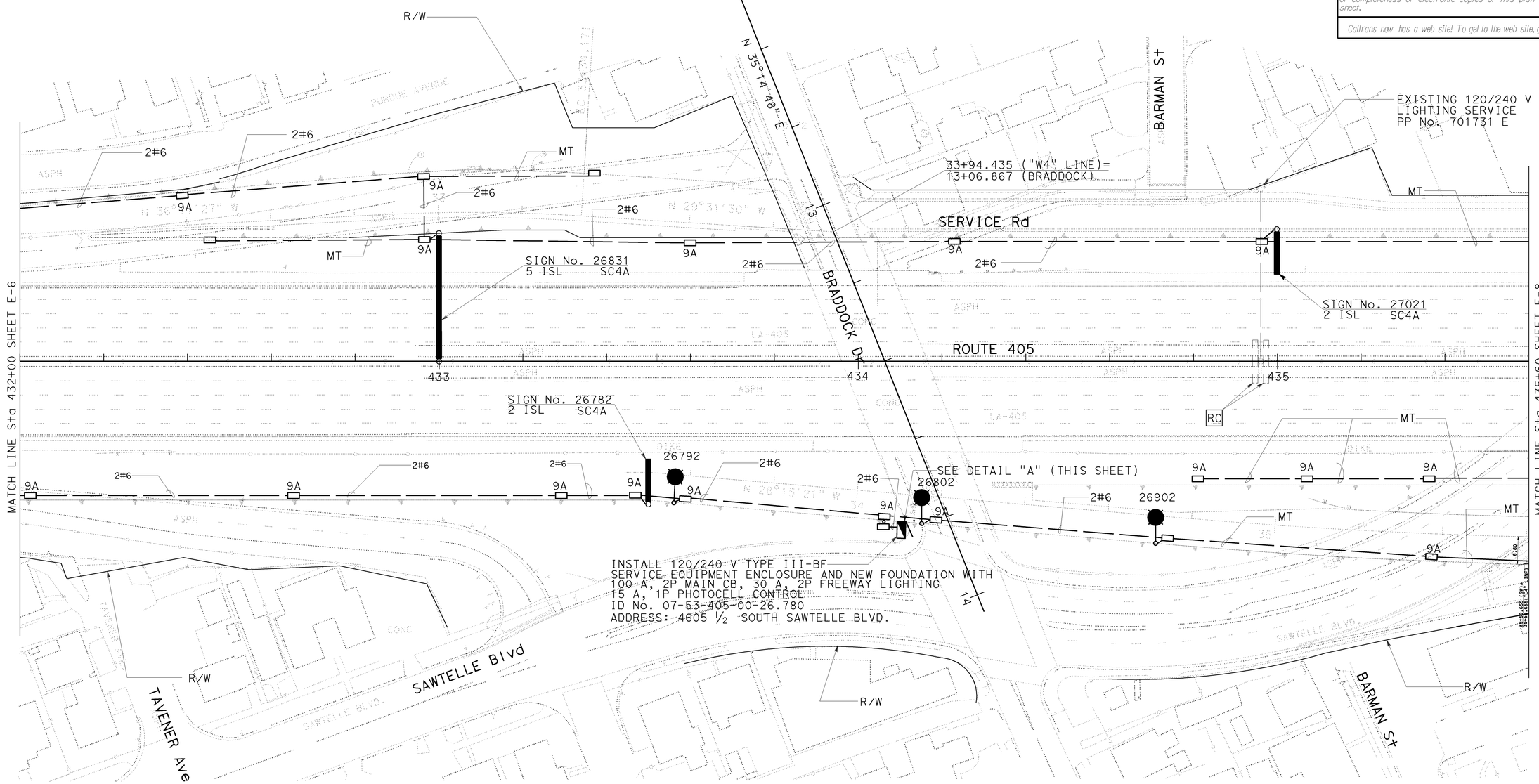

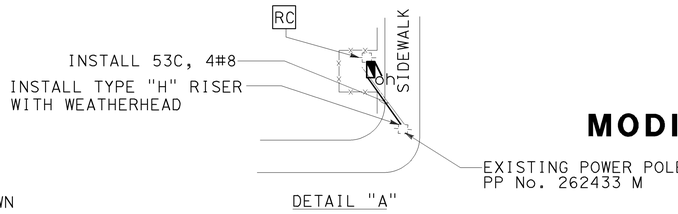

DETAIL "A"

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEET E-25.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-7

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

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

USERNAME => s110796
DGN FILE => 71178uu007.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:43

NOTE:
FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1009	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

OHANNES ANSERLIAN No. E-16682 Exp 06/30/06 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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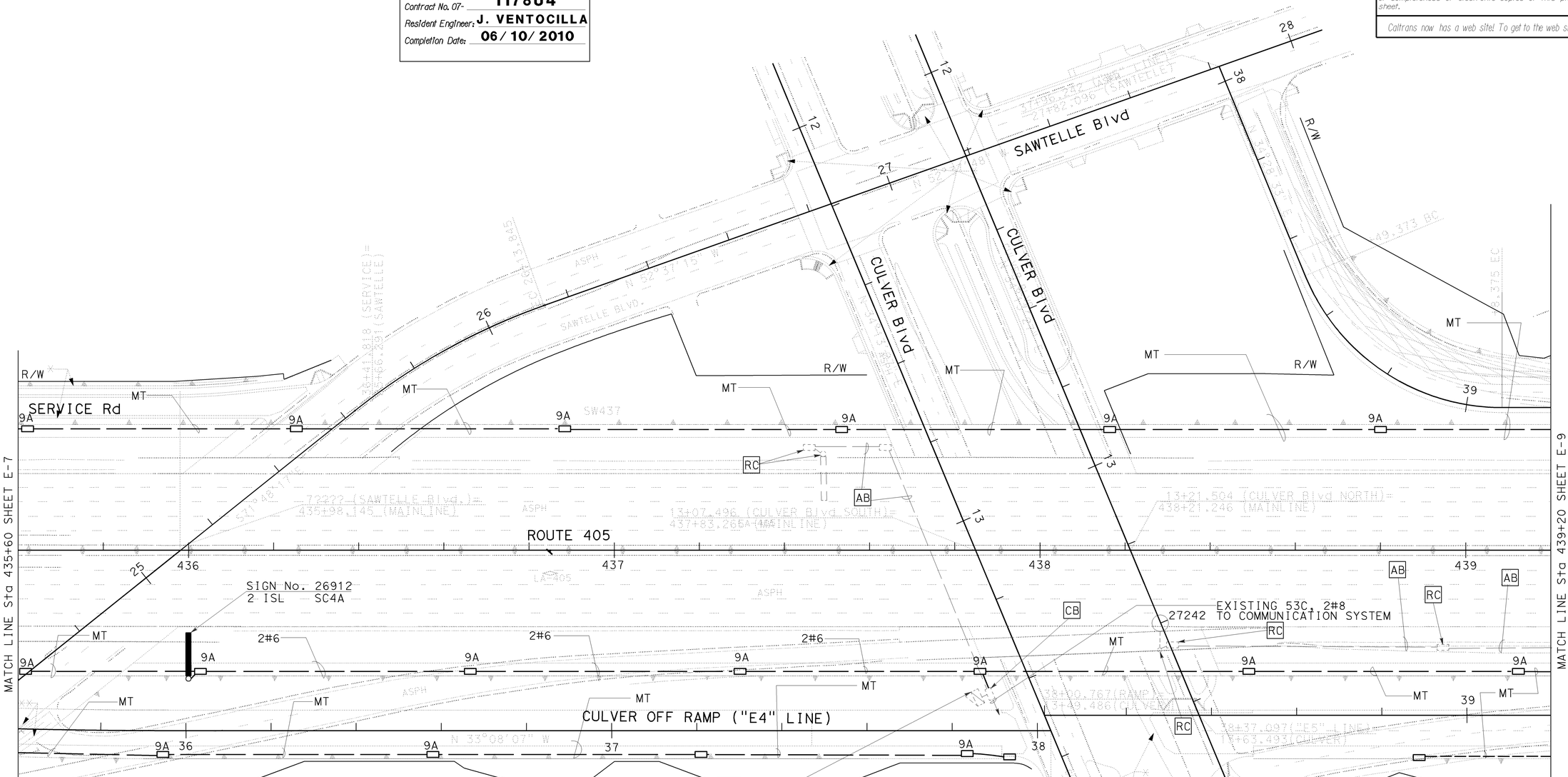
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010



FOR WIRING DIAGRAMS SEE E-26.
FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
PROJECT ENGINEER
OHANNES ANSERLIAN
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:43

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

USERNAME => s110796
DGN FILE => 71178uu008.dgn

CU 07382

EA 1178U1

NOTE:

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1010	1697

Caltrans Metric

Johannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

JOHANNES ANSERLIAN No. E-16682 06/30/06 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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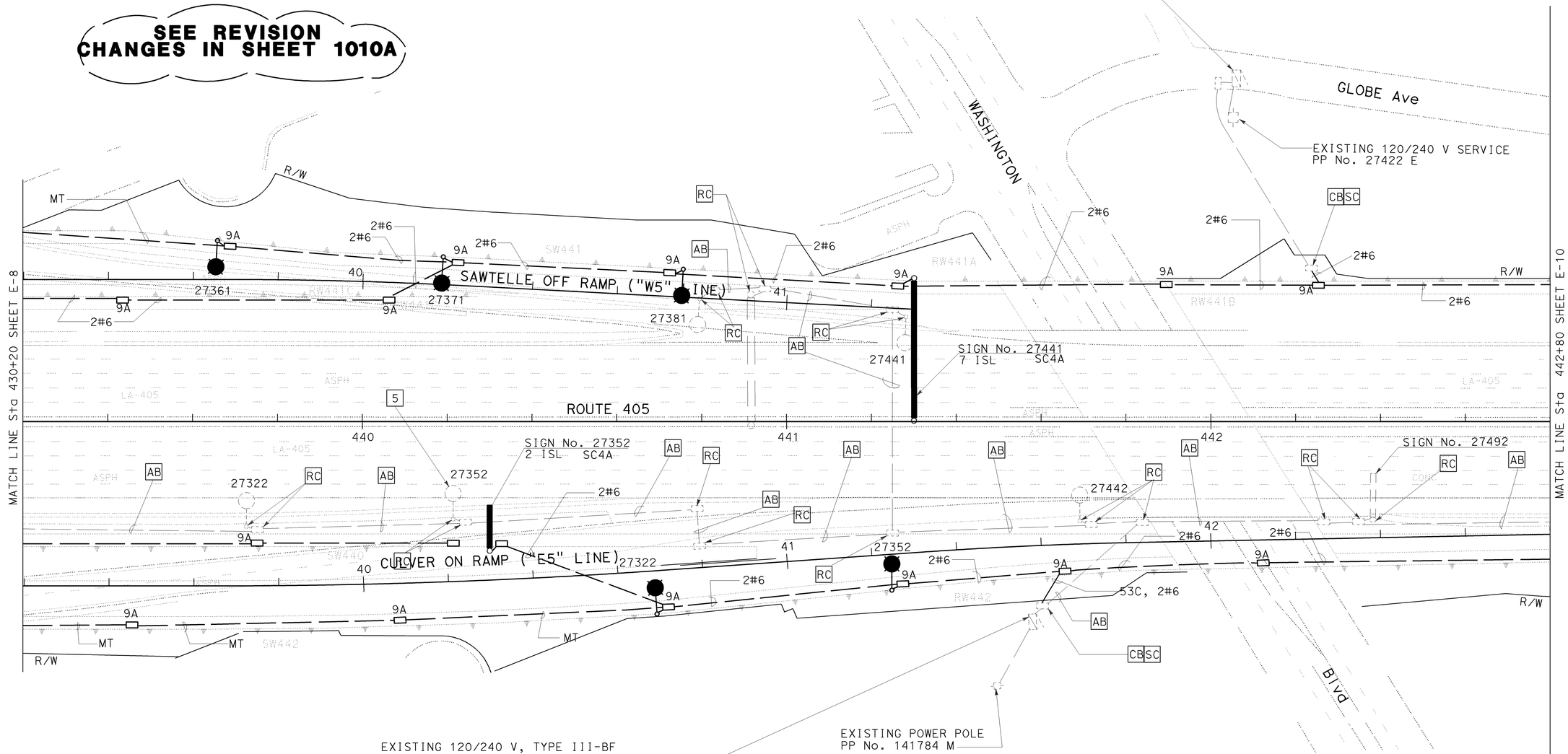
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE REVISION CHANGES IN SHEET 1010A

EXISTING 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH 100 A, 2P, MAIN CIRCUIT BREAKER. 30 A, 2P FOR SIGN AND LIGHTING, 15 A, 1P FOR TYPE V PHOTOELECTRIC CONTROL.
ID No. 07-53-405-0-027.450 PM)
ADDRESS: 4072 ½ GLOBE Ave



EXISTING POWER POLE
PP No. 141784 M

EXISTING 120/240 V, TYPE III-BF
SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-027.438
ADDRESS: WASHINGTON AND SEPULVEDA

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEETS E-26 & E-27.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-9

DATE REVISED BY | DATE REVISED
CALCULATED/ DESIGNED BY | CHECKED BY
PROJECT ENGINEER: OHANNES ANSERLIAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 11-APR-2011 | TIME PLOTTED => 14:43

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

USERNAME => s111708
DGN FILE => 71178uu009.dgn

CU 07382 | EA 1178U1

NOTE:

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

07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1010A	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

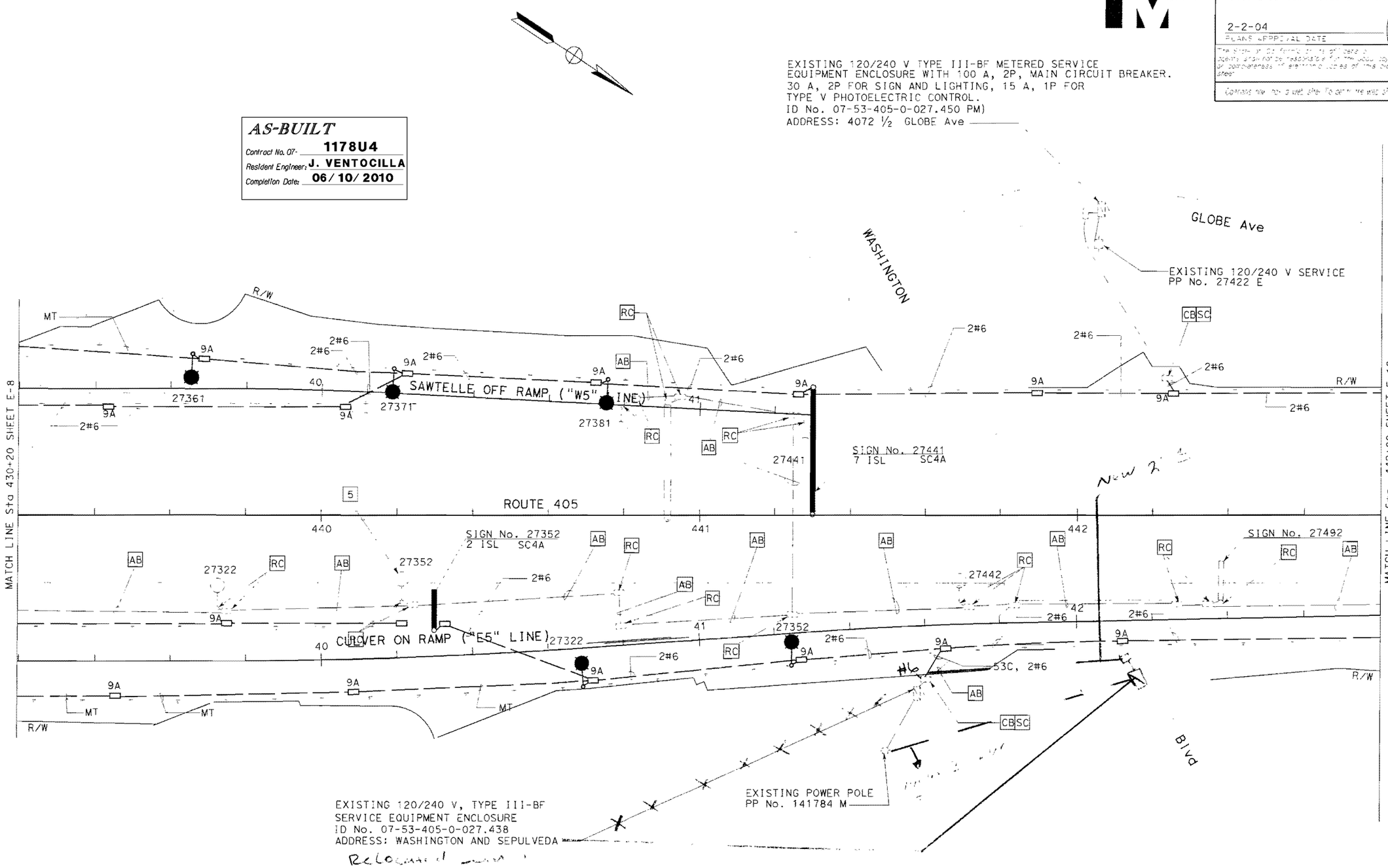
2-2-04
PLANS APPROVAL DATE

OHANNES ANSERLIAN No. E-16682 EXP. 06/30/06 ELECTRICAL

Caltrans Metric

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

EXISTING 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH 100 A, 2P, MAIN CIRCUIT BREAKER. 30 A, 2P FOR SIGN AND LIGHTING, 15 A, 1P FOR TYPE V PHOTOELECTRIC CONTROL.
ID No. 07-53-405-0-027.450 PM)
ADDRESS: 4072 ½ GLOBE Ave



EXISTING 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-027.438
ADDRESS: WASHINGTON AND SEPULVEDA

Relocated

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEETS E-26 & E-27.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-9A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
PROJECT ENGINEER OHANNES ANSERLIAN
CALCULATED/DESIGNED BY
CHECKED BY
DATE
REVISED BY
DATE REVISED

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

USERNAME => trienard
DGN FILE => 71178u009.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 17-FEB-2004
TIME PLOTTED => 07:55

NOTE:

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1011	1697

Caltrans Metric

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 — ELECTRICAL — STATE OF CALIFORNIA

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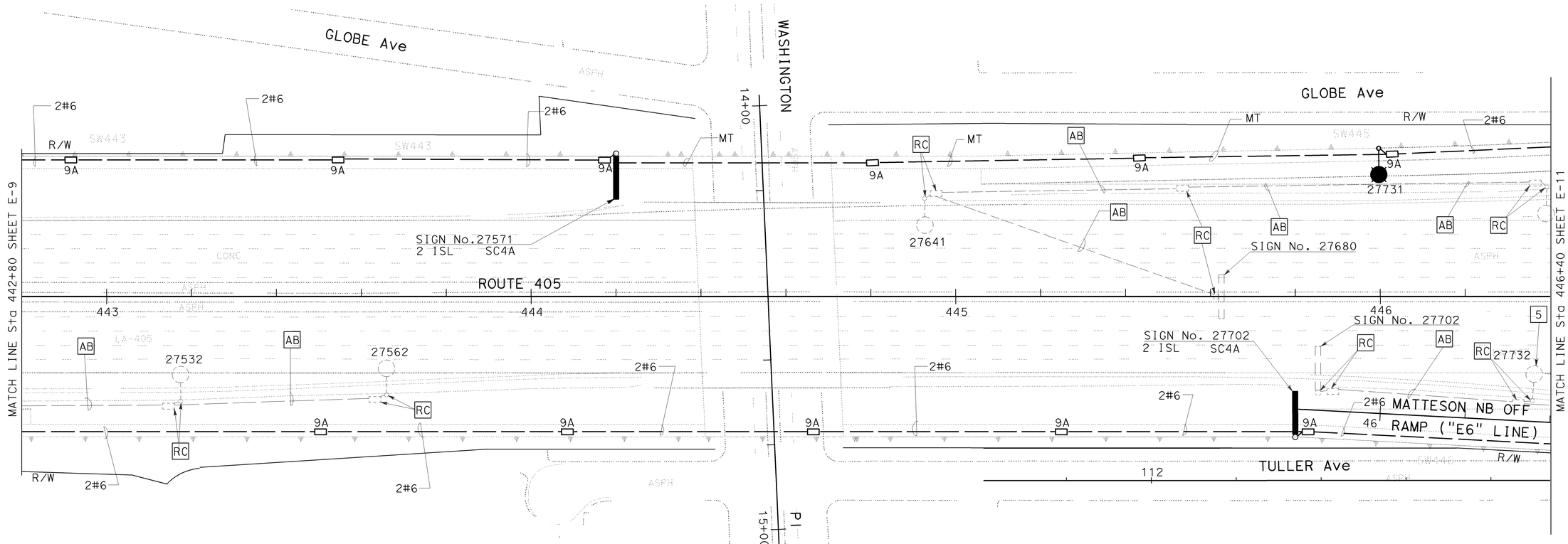


AS-BUILT

Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEETS E-26 & E-27.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER
OHANNES ANSERLIAN

CALCULATED/ DESIGNED BY
CHECKED BY

DATE	REVISED BY	DATE REVISED

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

USERNAME => s110796
DGN FILE => 71178uu010.dgn

CU 07382

EA 1178U1

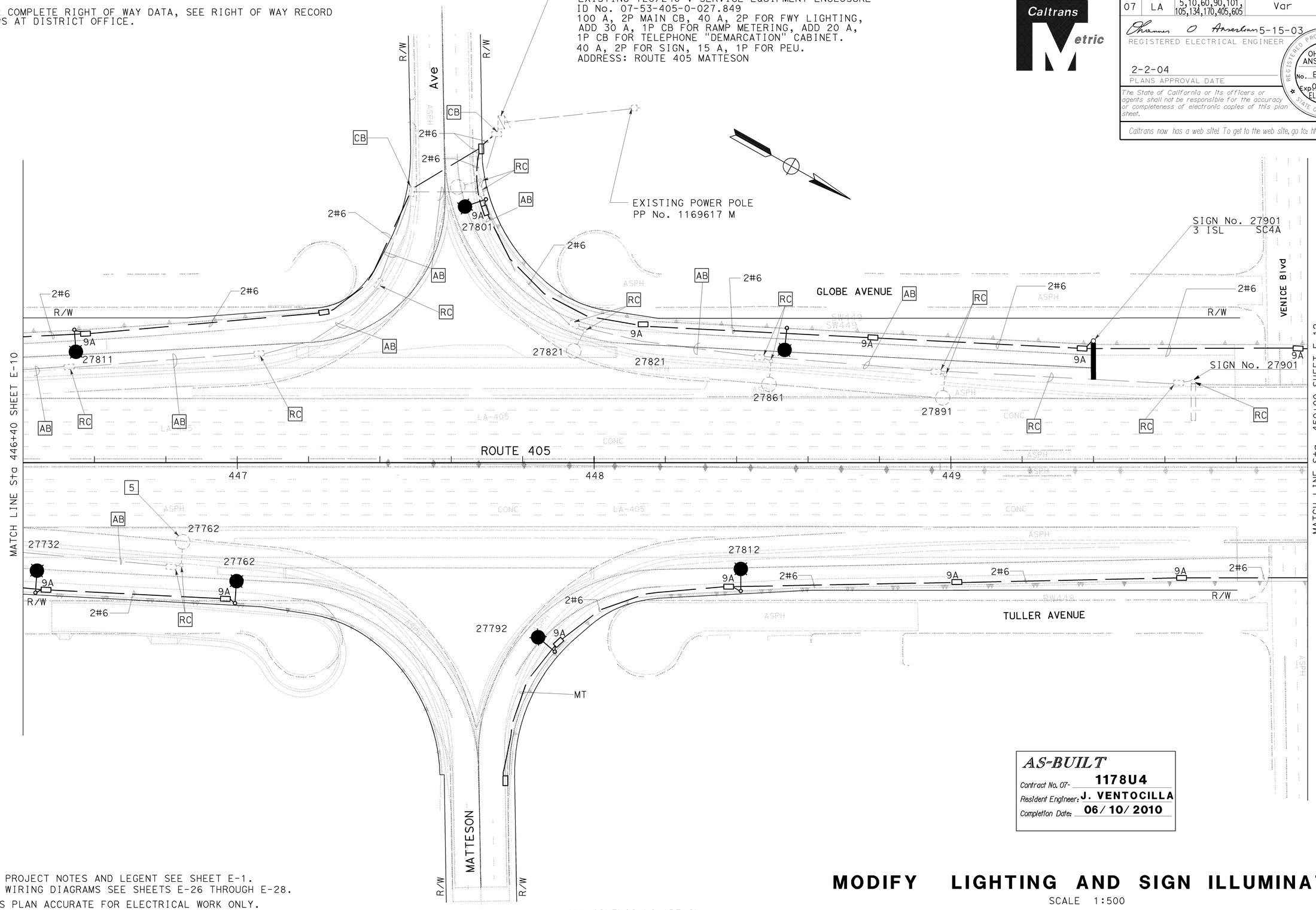
LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:43

NOTE:

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

EXISTING 120/240 V SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-027.849
100 A, 2P MAIN CB, 40 A, 2P FOR FWY LIGHTING,
ADD 30 A, 1P CB FOR RAMP METERING, ADD 20 A,
1P CB FOR TELEPHONE "DEMARCATION" CABINET.
40 A, 2P FOR SIGN, 15 A, 1P FOR PEU.
ADDRESS: ROUTE 405 MATTESON

EXISTING POWER POLE
PP No. 1169617 M



AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

FOR PROJECT NOTES AND LEGENT SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEETS E-26 THROUGH E-28.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-11

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1012	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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DATE REVISED BY

CALCULATED/ DESIGNED BY
CHECKED BY

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

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

USERNAME => s110796
DGN FILE => 71178uu011.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:43

NOTE:

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1013	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

OHANNES ANSERLIAN No. E-16682 Exp 06/30/06 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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EXISTING 120/240 V, TYPE III-BF METERED SERVICE EQUIPMENT ENLOSURE
ADDRESS: 3701 GLOBE Ave

VENICE BLVD

REGENT St

GLOBE AVENUE

ASPH

2#6 2#6 2#6 2#6 2#6 2#6

R/W

SW451

9A 9A 9A 9A 9A 9A

SIGN No. 28250
1 ISL SC4A

SIGN No. 28250

AB

MATCH LINE Sta 450+00 SHEET E-11

MATCH LINE Sta 453+60 SHEET E-13

CONC

LA-405

ROUTE 405

451 452 453

EXISTING CAMERA TO BE REMOVED BY OTHERS

AB BY OTHERS

RC

TO CCTV CIRCUIT

CB

TULLER AVENUE

EXISTING 120/240 V SERVICE EQUIPMENT ENCLOSURE
WITH 200 A, 2P MAIN CB,
30 A, 1P FOR CMS CABINET,
30 A, 2P FOR FWY LIGHTING,
30 A, 1P FOR CCTV, (4) 80 A, 1P FOR CMS.
ID No. 07-53-405-0-027.986
ADDRESS: 3762 ½ TULLER Ave

REMOVE EXISTING LIGHTING AND SIGN WIRES. INSTALL 2#6 WIRES.

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-12

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

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

USERNAME => s110796
DGN FILE => 71178uu012.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:44

NOTE:

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

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE REVISION CHANGES IN SHEET 1014A

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1014	1697

Johannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 — ELECTRICAL — STATE OF CALIFORNIA

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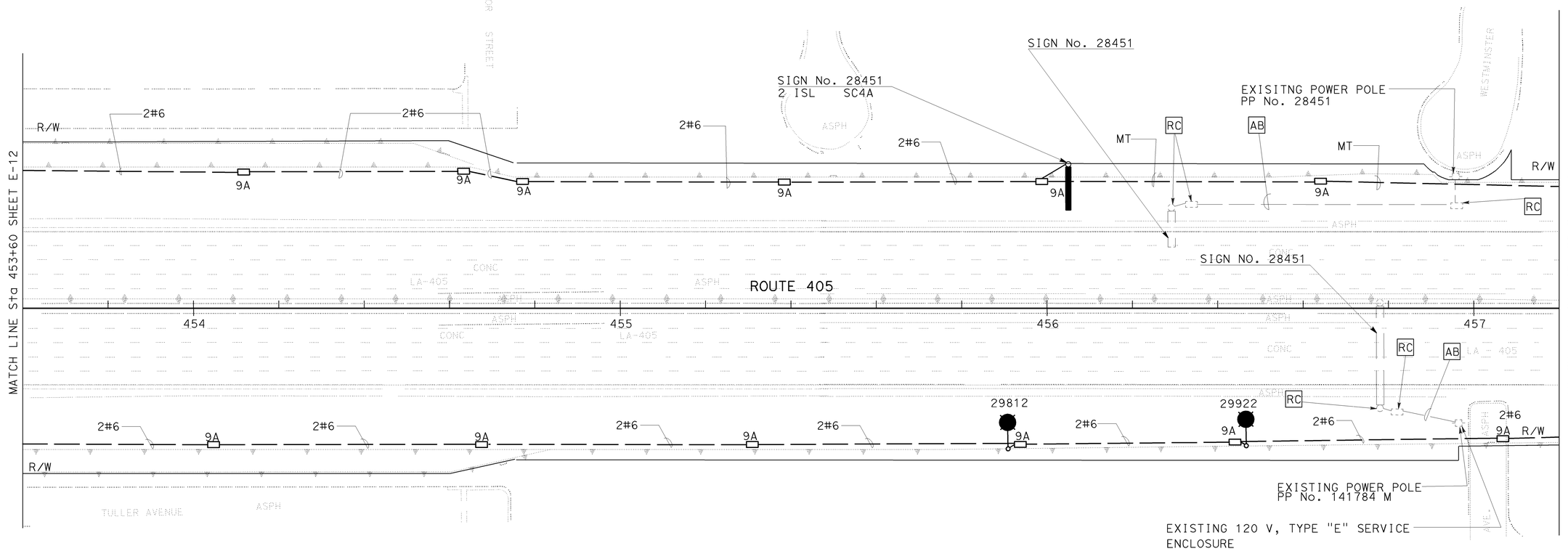

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
PROJECT ENGINEER
JOHANNES ANSERLIAN
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED =>11-APR-2011 TIME PLOTTED =>14:43

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

USERNAME =>s111708
DGN FILE =>71178uu013.dgn

CU 07382

EA 1178U1

NOTE:

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

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101 105,134,170,405,605	Var	1014A	1697

Ohannes Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

OHANNES ANSERLIAN No. E-16682 Exp 06/30/06 ELECTRICAL

2-2-04
PLANS APPROVAL DATE

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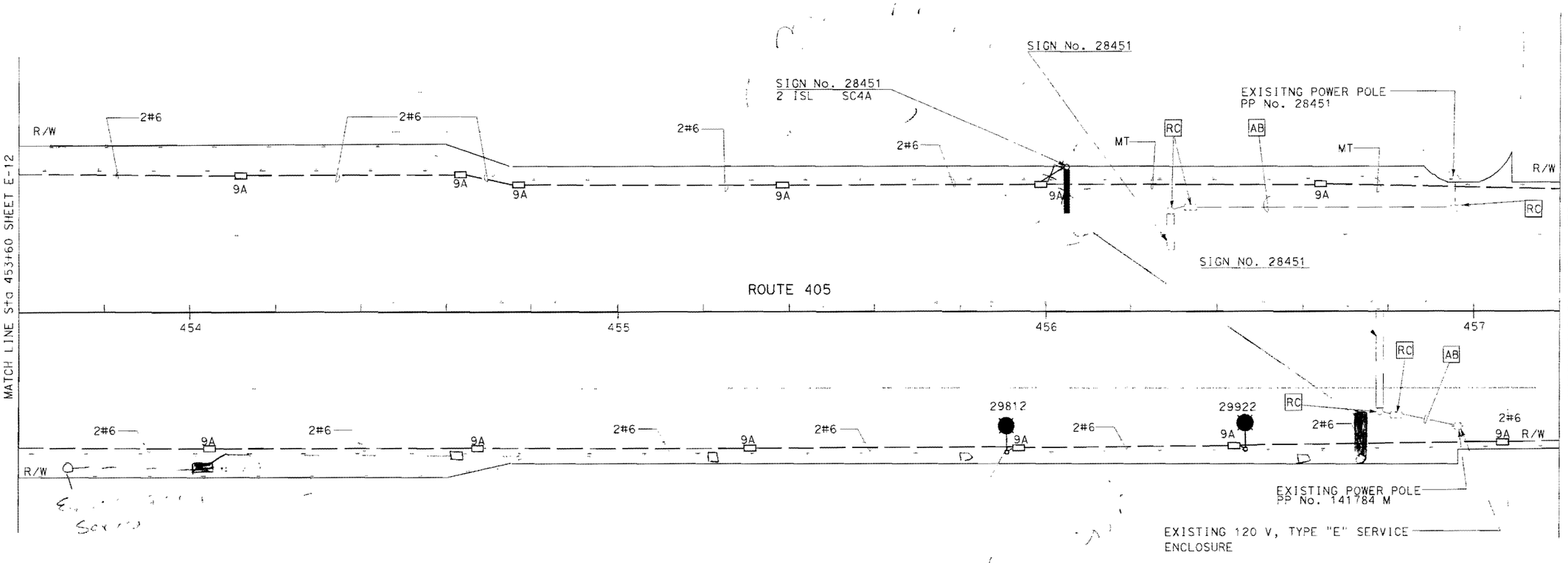

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-13A

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

USERNAME = DGN FILE =

CU 07382 EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED = 17-FEB-2004 TIME PLOTTED = 08:16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
PROJECT ENGINEER OHANNES ANSERLIAN
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

NOTE:
FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1015	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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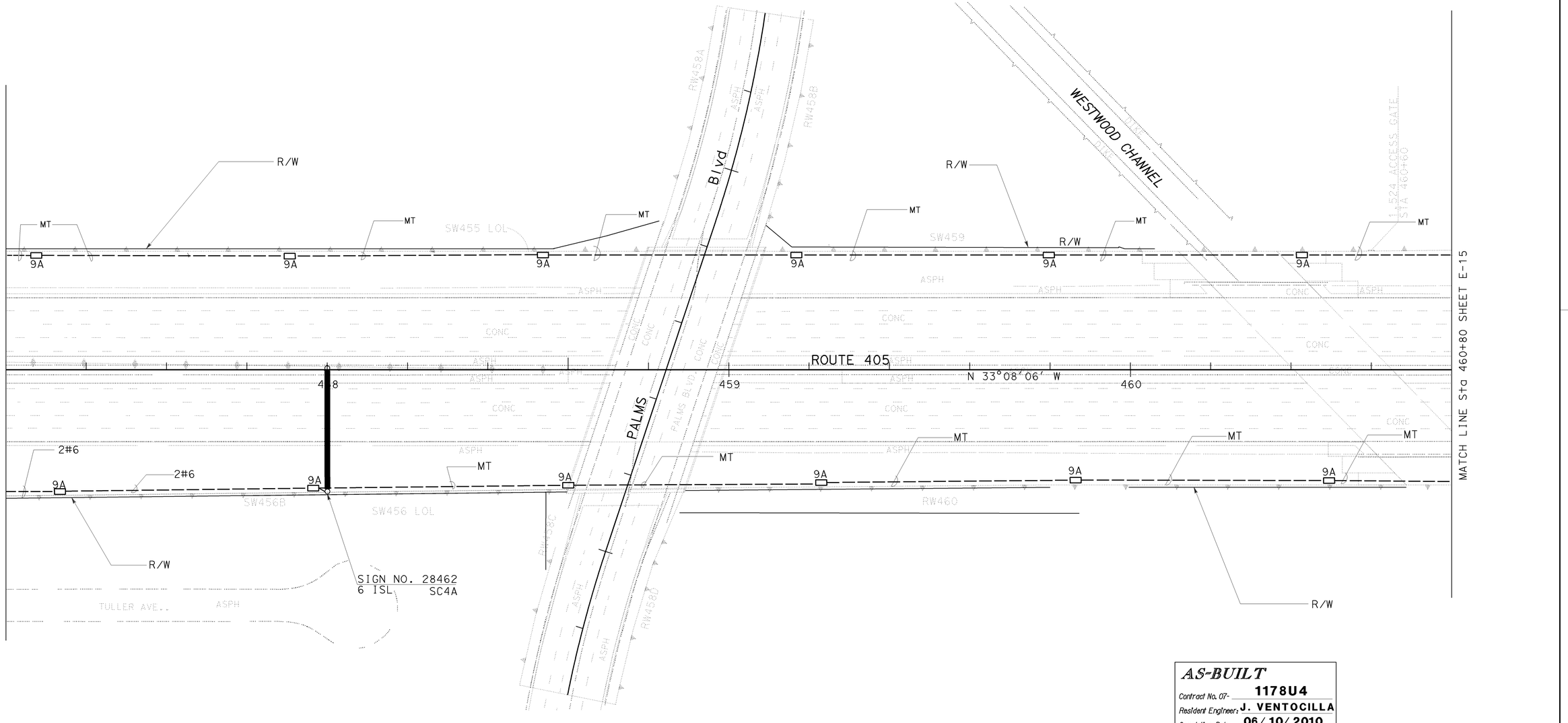
PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN



AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

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

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-14

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu014.dgn

CU 07382

EA 1178U1

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1016	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 — ELECTRICAL — STATE OF CALIFORNIA

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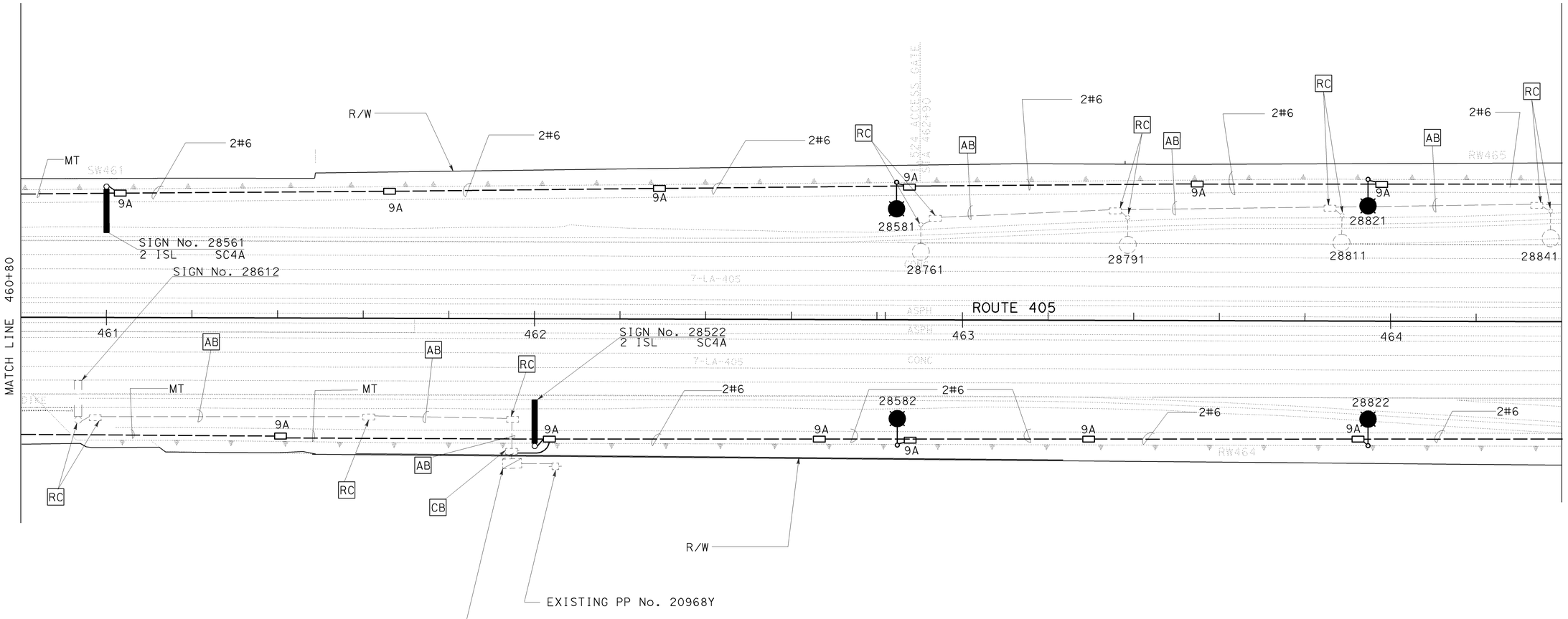

EXISTING 120/240 V TYPE I
SERVICE EQUIPMENT ENCLOSURE
WITH 100 A, 2P MAIN CB, 30 A,
2P FOR SIGN.
ID No. 07-53-405-0-028.610
ADDRESS: 3281 ½ S. SEPULVEDA BLVD.

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAM SEE SHEET E-28.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-15

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	CHECKED BY	

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

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

USERNAME => s110796
DGN FILE => 71178uu015.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:44

NOTE:

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1017	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 ELECTRICAL — STATE OF CALIFORNIA

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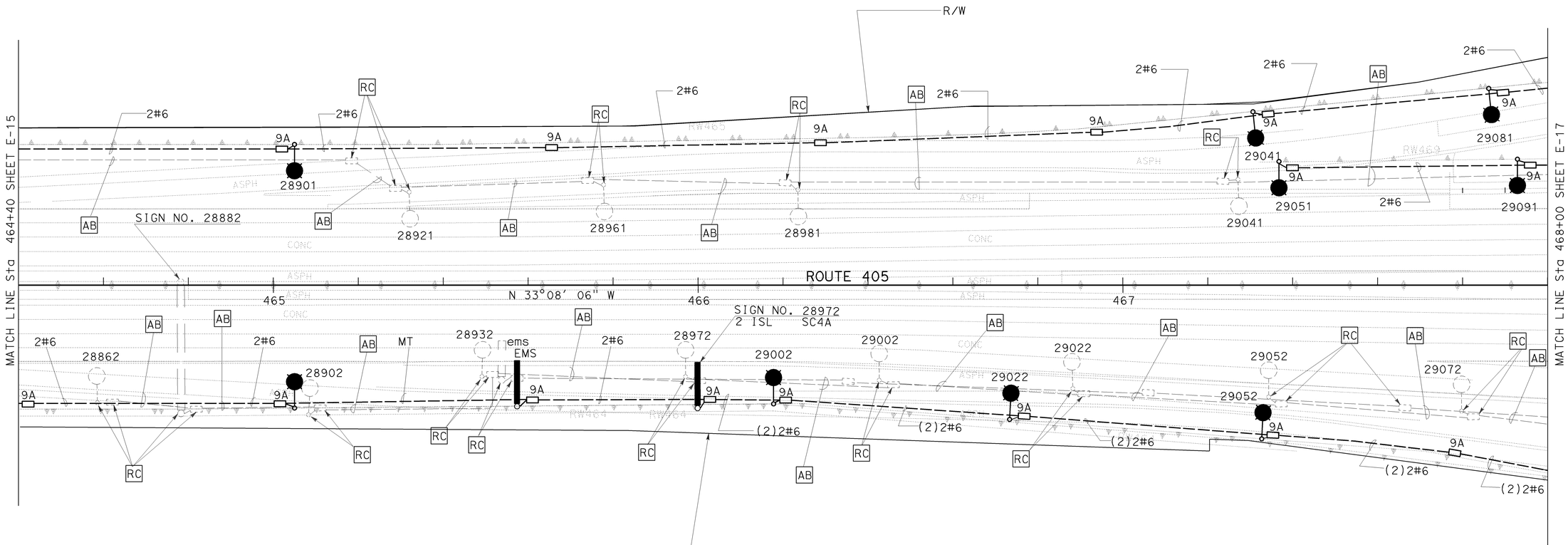

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

FOR PROJECT NOTES AND LEGENT SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEET E-28.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-16

DATE | REVISED BY | DATE REVISED
CALCULATED/ DESIGNED BY | CHECKED BY
PROJECT ENGINEER | OHANNES ANSERLIAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans | TRAFFIC DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu016.dgn

CU 07382 | EA 1178U1

NOTE:
FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1018	1697

Johannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 ELECTRICAL — STATE OF CALIFORNIA

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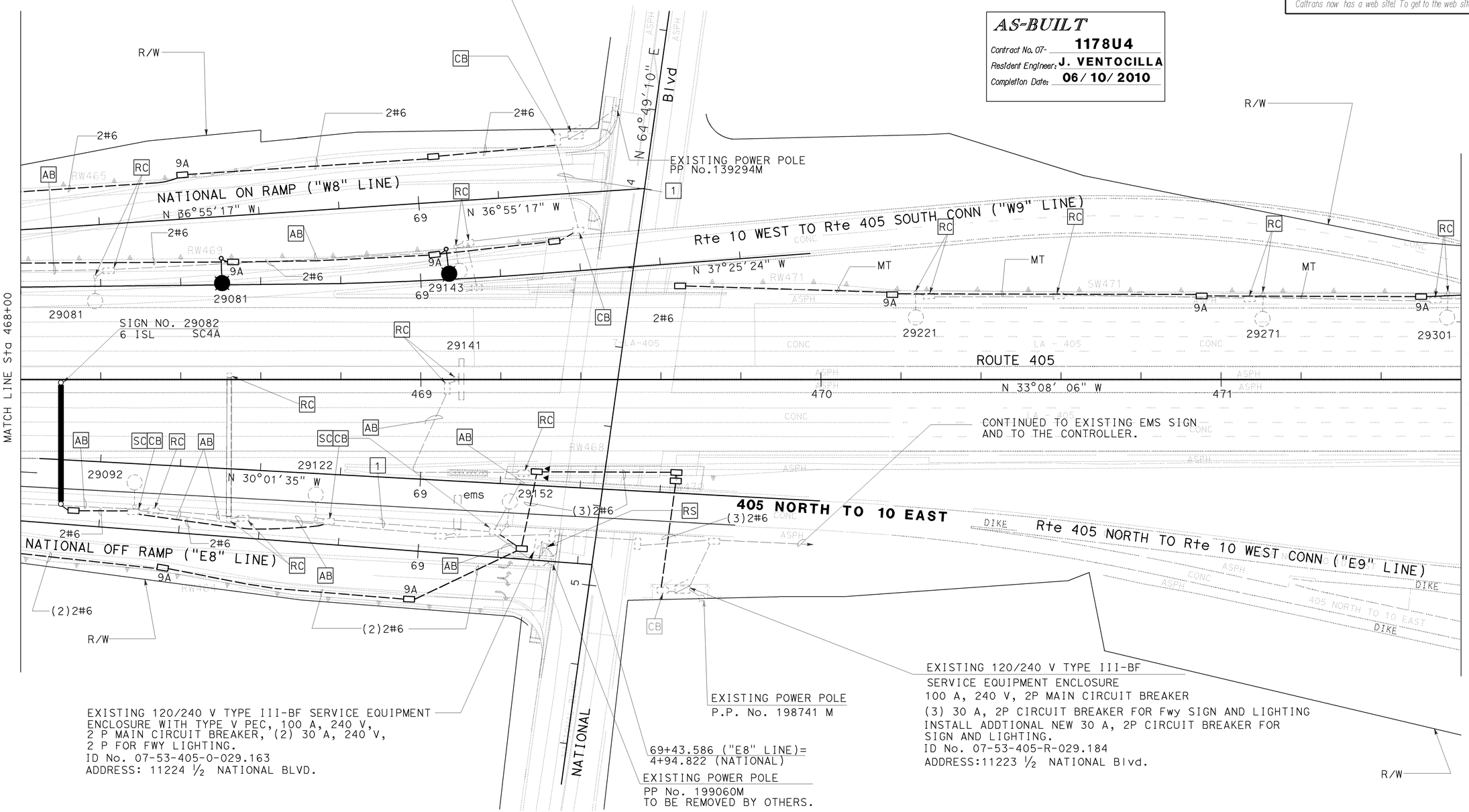
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

EXISTING 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE
WITH TYPE V PEC, 100 A, 2 P MAIN CIRCUIT BREAKER,
(2) 30 A, 240 V, 2P FOR FWY LIGHTING.
ID No. 07-53-405-0-029.173
ADDRESS: 11251 ½ NATIONAL BLVD.



FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEET E-28.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
PROJECT ENGINEER
OHANNES ANSERLIAN
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE

LAST REVISION 00-00-00 DATE PLOTTED =>22-MAR-2011 TIME PLOTTED =>12:44

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

USERNAME =>s110796
DGN FILE =>71178uu017.dgn

CU 07382

EA 1178U1

NOTE:

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1019	1697

Caltrans Metric

Ohannes Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 ELECTRICAL — STATE OF CALIFORNIA

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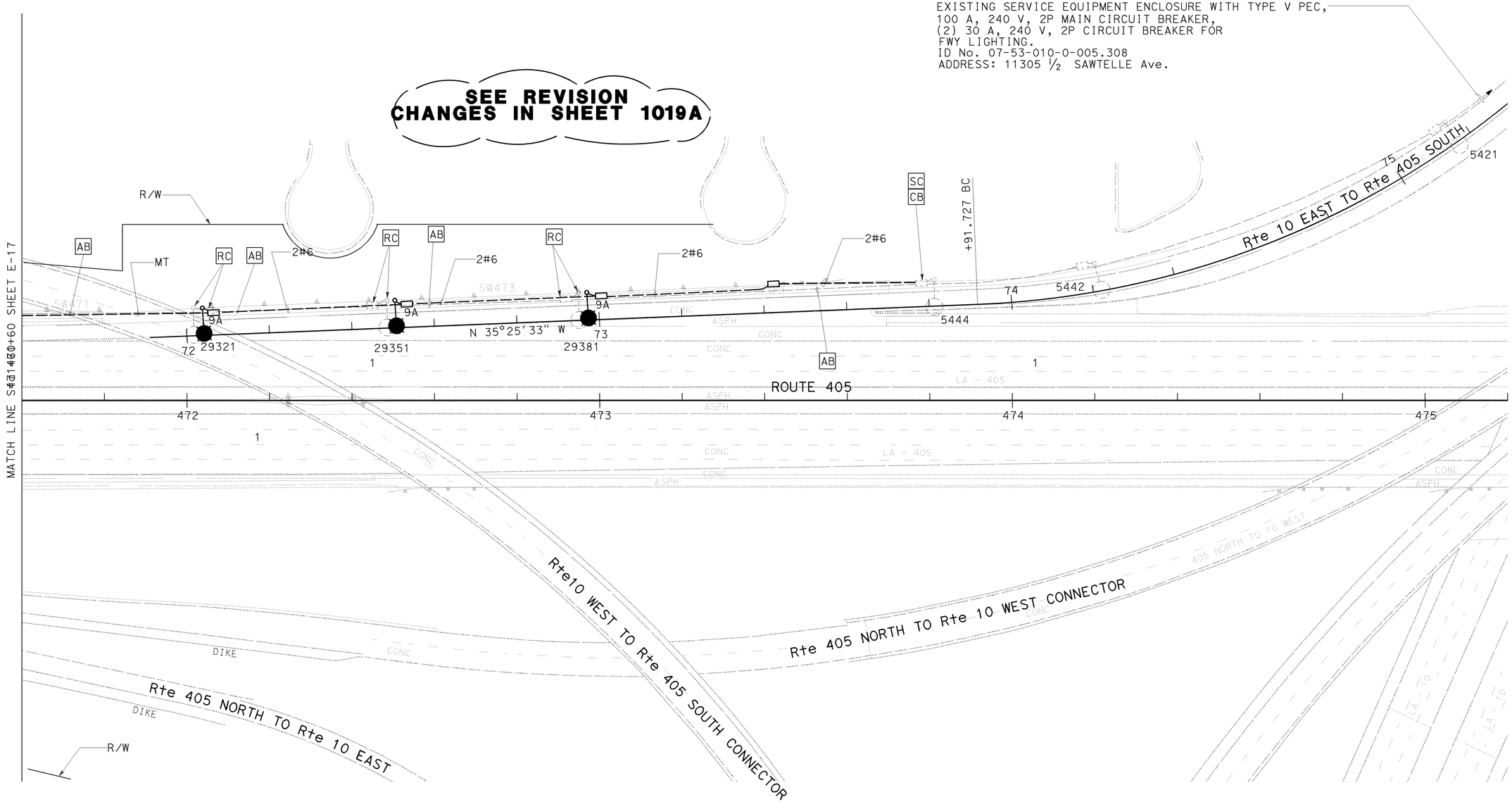
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE REVISION CHANGES IN SHEET 1019A

EXISTING SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC,
100 A, 240 V, 2P MAIN CIRCUIT BREAKER,
(2) 30 A, 240 V, 2P CIRCUIT BREAKER FOR
FWY LIGHTING.
ID No. 07-53-010-0-005.308
ADDRESS: 11305 ½ SAWTELLE Ave.



FOR PROJECT NOTES AND LEGENT SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEET E-29.
ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN.

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-18

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Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER
OHANNES ANSERLIAN

CALCULATED/ DESIGNED BY
CHECKED BY

DATE	REVISED BY	DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 11-APR-2011
TIME PLOTTED => 14:43

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

USERNAME => s111708
DGN FILE => 71178uu018.dgn

CU 07382

EA 1178U1

NOTE:
FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1019A	1697

Caltrans Metric

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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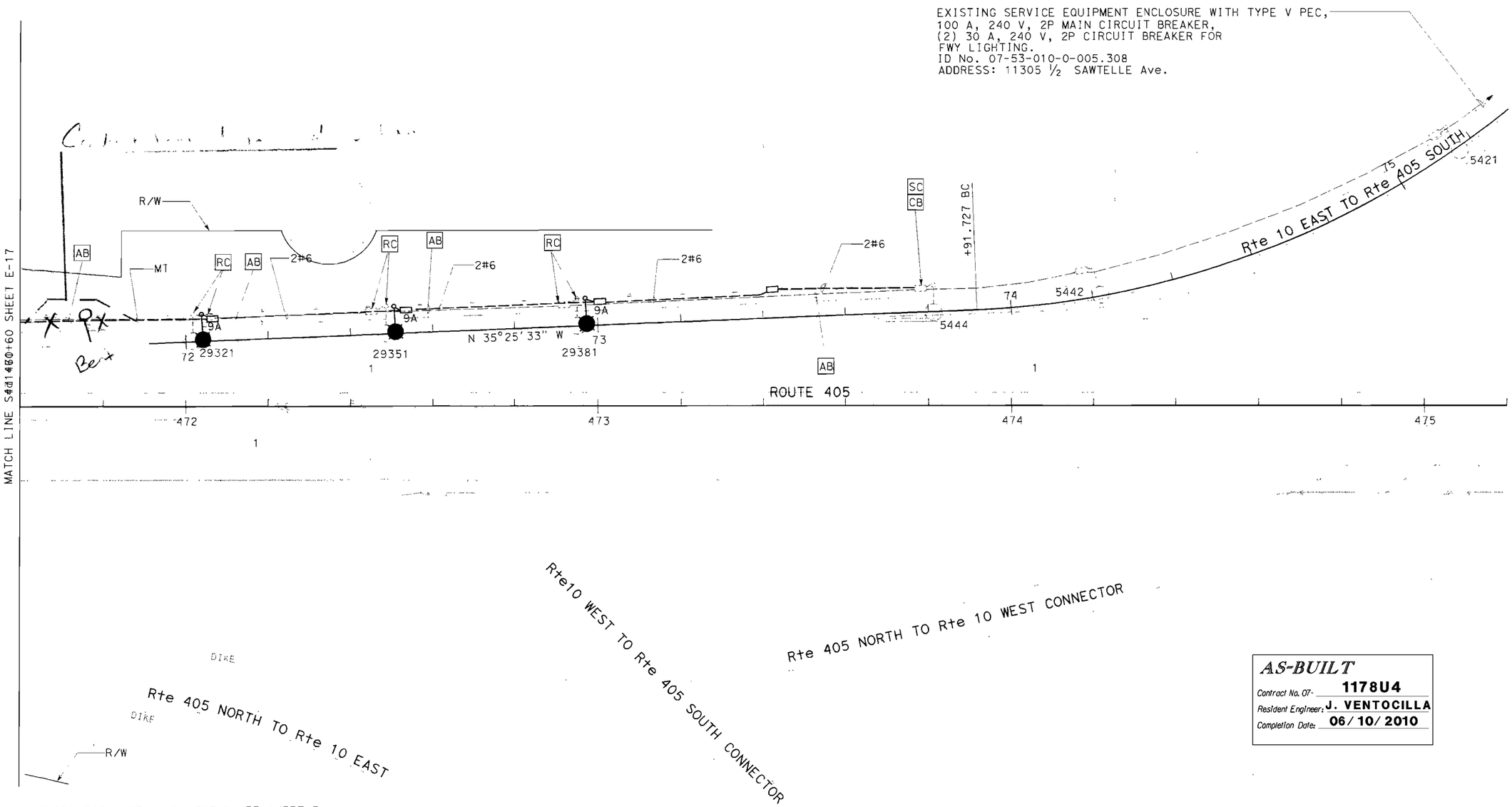

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

FOR PROJECT NOTES AND LEGENT SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEET E-29.
ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN.

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1:500

E-18A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

PROJECT ENGINEER
OHANNES ANSERLIAN

CALCULATED/DESIGNED BY
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DATE
REVISED BY
DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

CU 07382

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED = 26-FEB-2004
TIME PLOTTED = 07:38

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1020	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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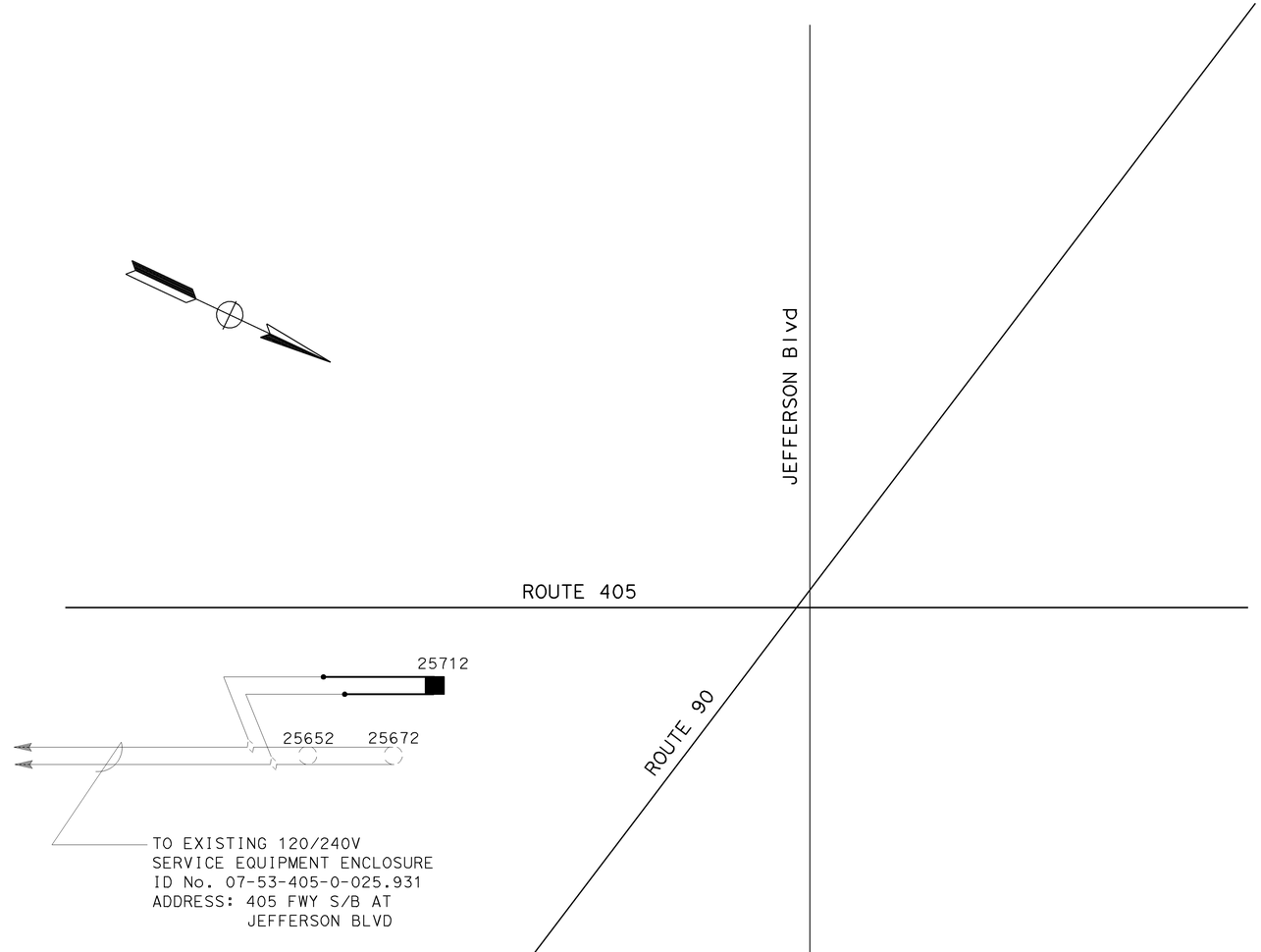
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

E-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER
OHANNES ANSERLIAN

CALCULATED/ DESIGNED BY
CHECKED BY

DATE	REVISED BY	DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu019.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1021	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 ELECTRICAL — STATE OF CALIFORNIA

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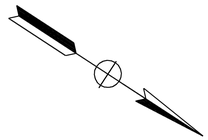
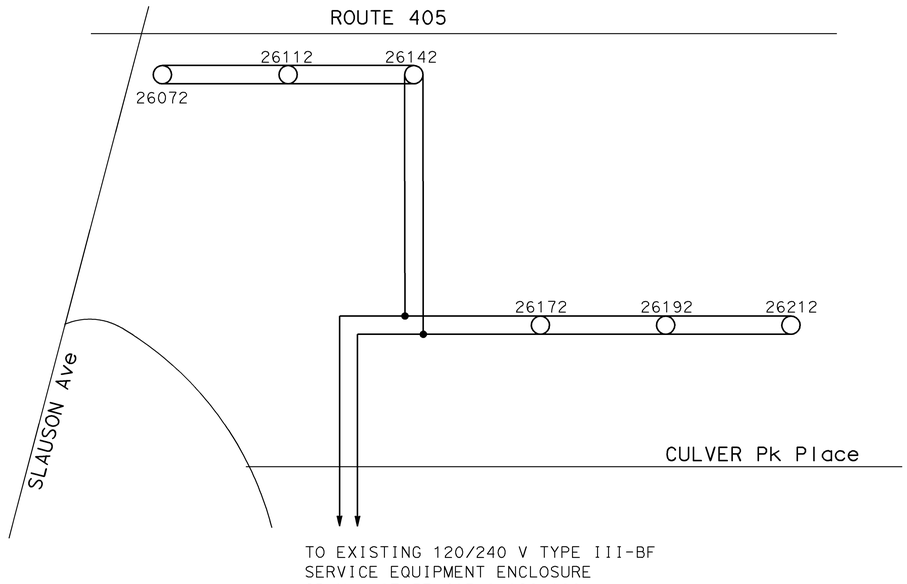
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**





TO EXISTING 120/240 V TYPE III-BF
SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-026.106
ADDRESS: ROUTE 405 FWY N/B CULVER Pk PLACE

MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

NO SCALE

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-20

DATE	REVISED BY
	DATE REVISED

CALCULATED/ DESIGNED BY
CHECKED BY

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu020.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1022	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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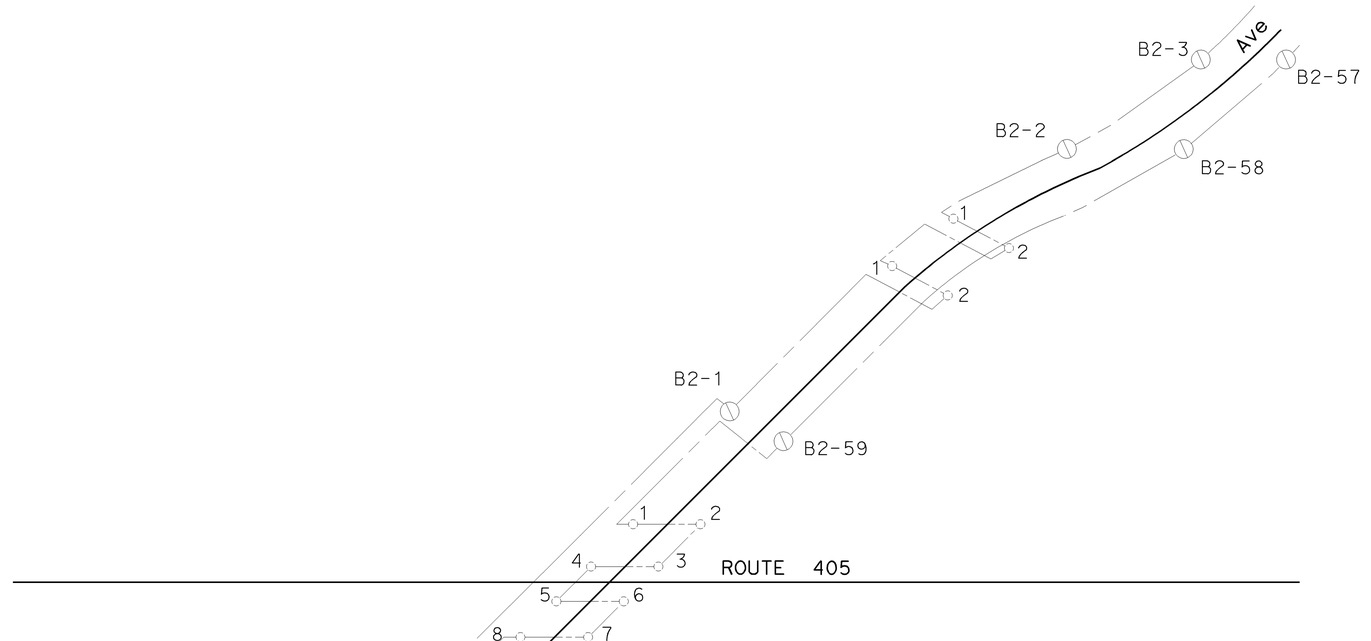
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.



PARTIAL WIRING DIAGRAM
Circuit No. B2

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY LIGHTING AND SIGN ILLUMINATION
(EXISTING WIRING DIAGRAM- FOR REFERENCE ONLY)

NO SCALE

E-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

PROJECT ENGINEER
OHANNES ANSERLIAN

CALCULATED/ DESIGNED BY
CHECKED BY

DATE	REVISED BY	DATE REVISED

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

USERNAME => s110796
DGN FILE => 71178uu021.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:44

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1023	1697

Caltrans Metric

Ohannes O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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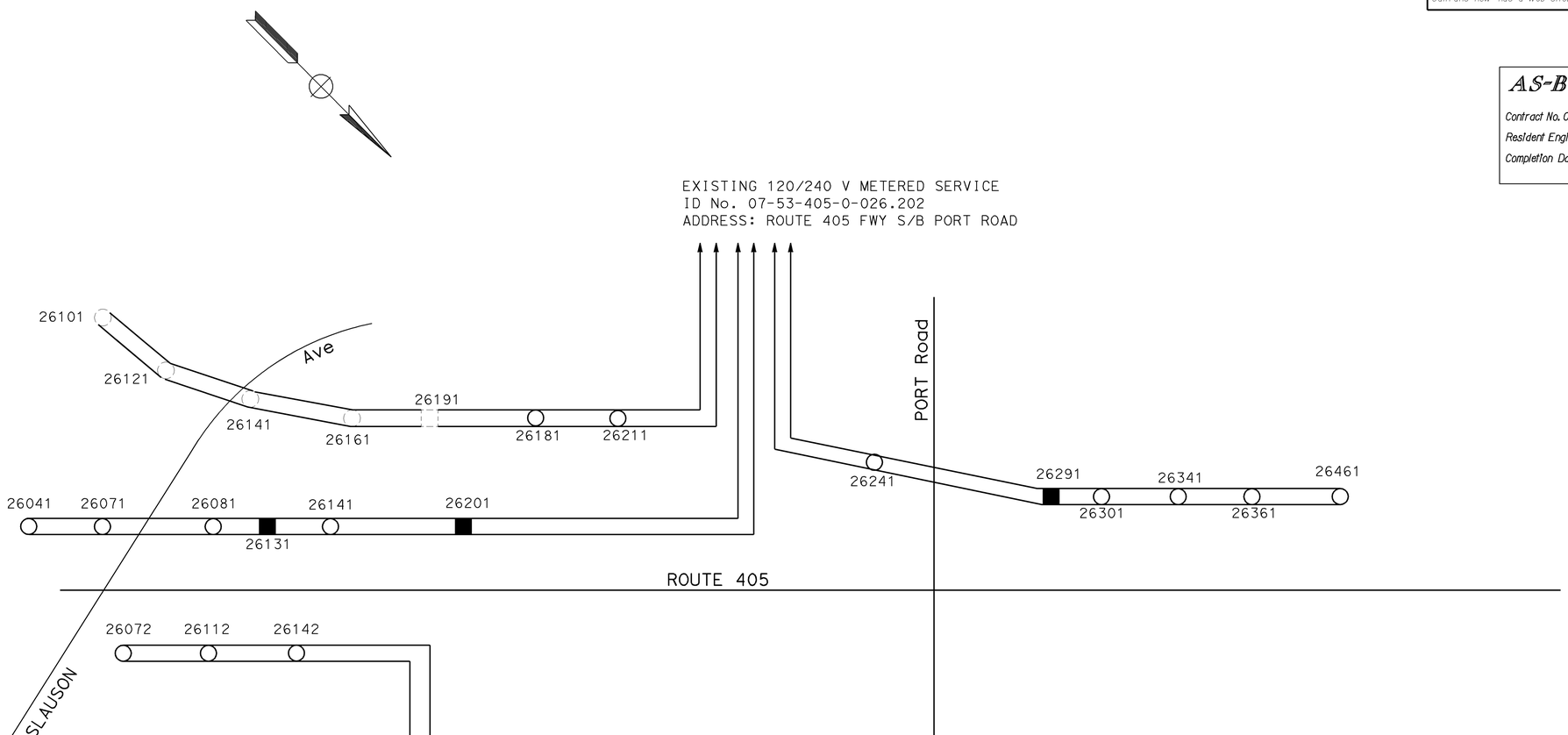
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

EXISTING 120/240 V METERED SERVICE
ID No. 07-53-405-0-026.202
ADDRESS: ROUTE 405 FWY S/B PORT ROAD



TO 120/240 V SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-00-26.106
ADDRESS: ROUTE 405 FWY N/B CULVER PK

ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

NO SCALE

E-22

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu022.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1024	1697

Caltrans Metric

Ohannes O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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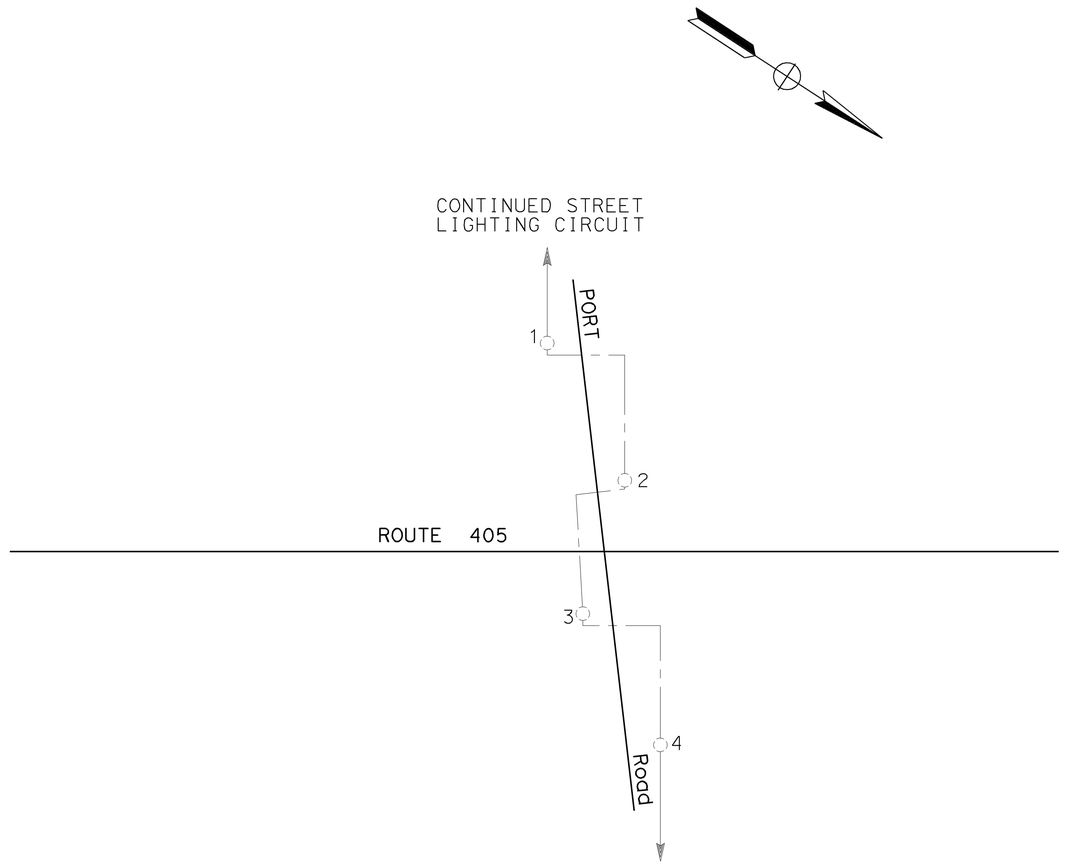
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.



MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

NO SCALE

E-23

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY

CHECKED BY

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu023.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1025	1697

Ohannes O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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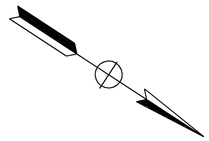
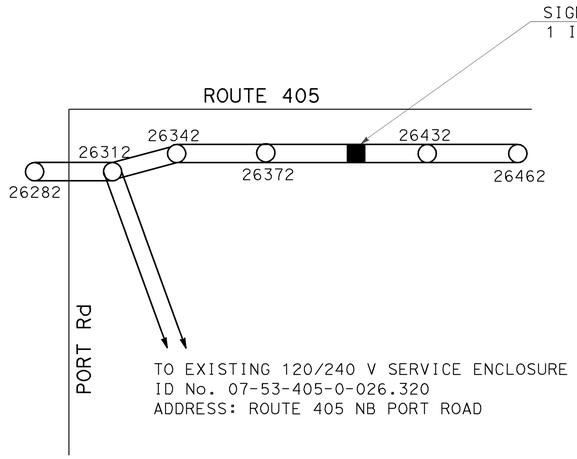
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**





MODIFY LIGHTING AND SIGN ILLUMINATION

(WIRING DIAGRAM)

NO SCALE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans TRAFFIC DESIGN
PROJECT ENGINEER	OHANNES ANSERLIAN
CALCULATED/ DESIGNED BY	
CHECKED BY	

DATE	REVISED BY	DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu024.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1026	1697

Johannes O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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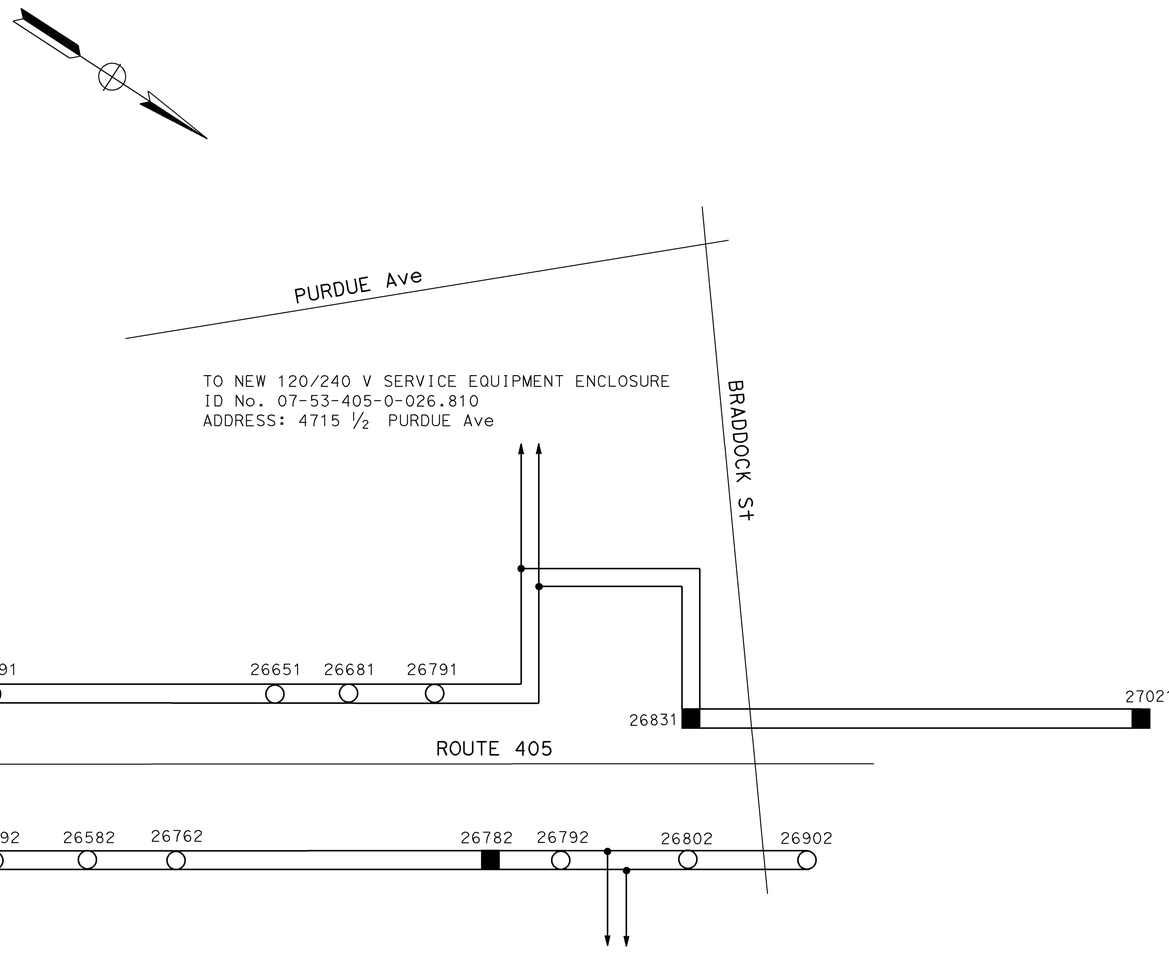
AS-BUILT

Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

NO SCALE

E-25

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER
OHANNES ANSERLIAN

CALCULATED/ DESIGNED BY
CHECKED BY

DATE	REVISED BY	DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu025.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1027	1697

Ohannes Anserlian 05-15-03
REGISTERED CIVIL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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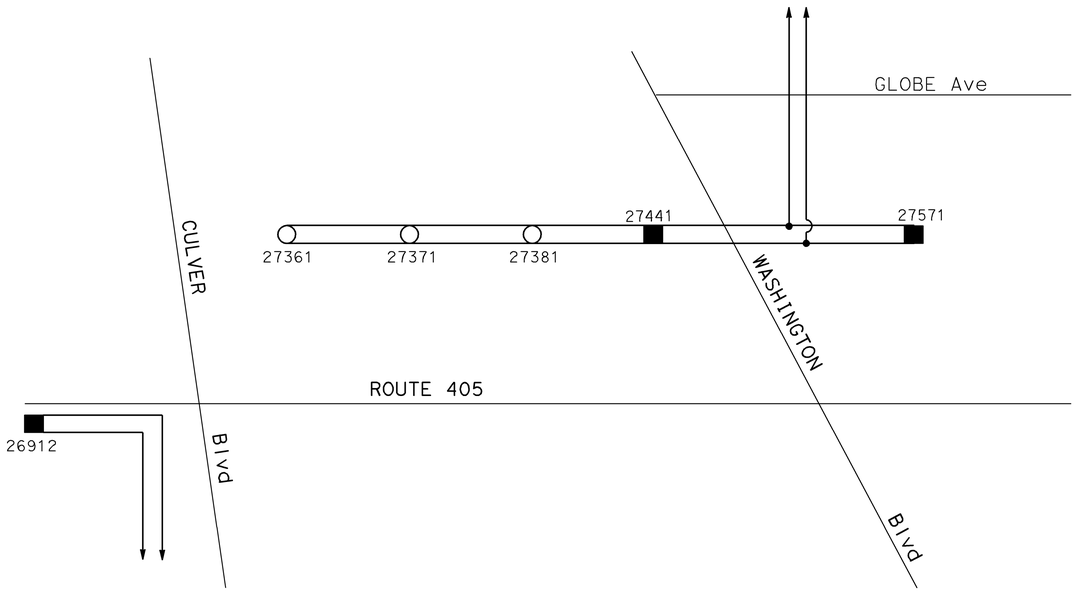
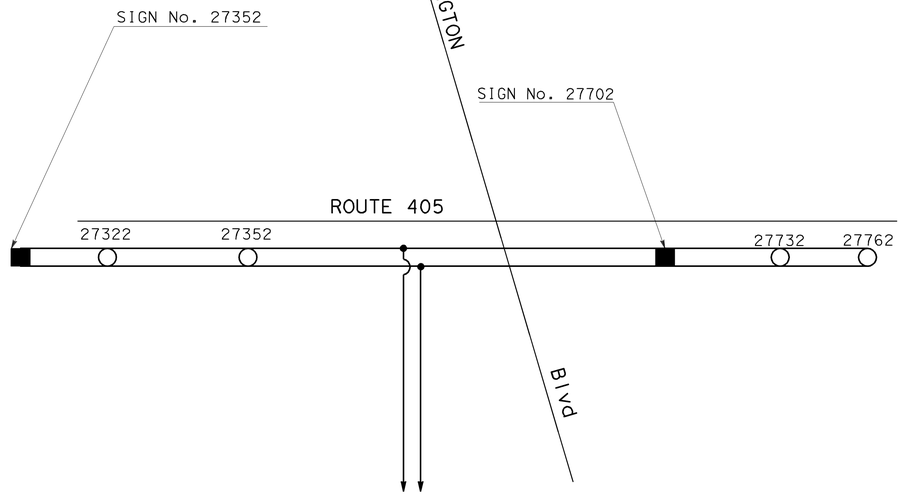
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE REVISION CHANGES IN SHEET 1027A

TO 120/240 V SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-026.810
ADDRESS: 4072 ½ GLOBE Ave



TO 120/240 V SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-27.180
ROUTE 405, NB SAWTELLE/ BRADDOCK



TO EXISTING 120/240 V
SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-027.438
WASHINGTON AND SEPULVEDA

MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

NO SCALE

E-26

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	CHECKED BY	

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 11-APR-2011
TIME PLOTTED => 14:43

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

USERNAME => s111708
DGN FILE => 71178uu026.dgn

CU 07382

EA 1178U1

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

Caltrans Metric

DIST	COUNTY	ROUTE	POST MILE	SHEET NO.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1027A	1697

Ohannes O Anserlian 05-15-03
REGISTERED CIVIL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — OHANNES ANSERLIAN — No. E-16682 — Exp 06/30/06 — ELECTRICAL — STATE OF CALIFORNIA

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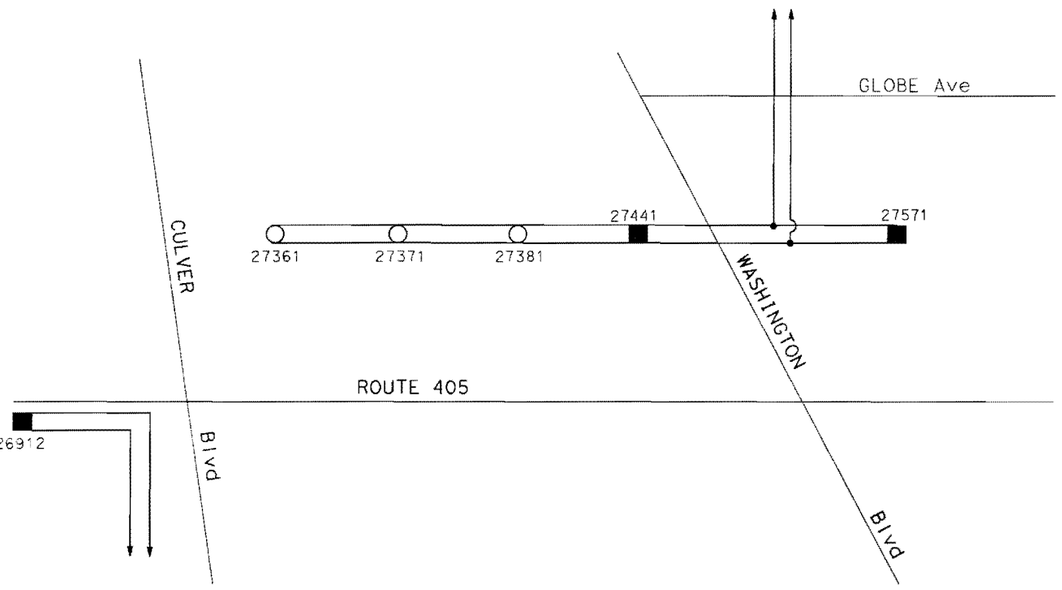
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

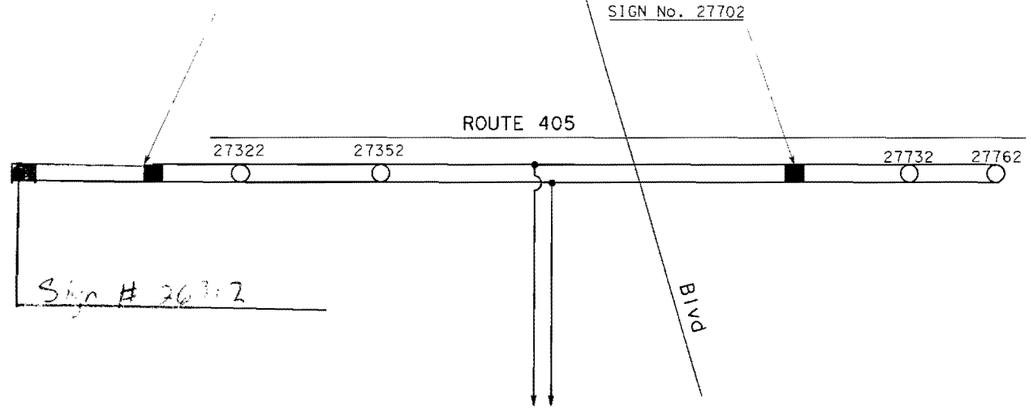
TO 120/240 V SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-026.810
ADDRESS: 4072 ½ GLOBE Ave



TO 120/240 V SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-27.180
ROUTE 405, NB SAWTELLE/ BRADDOCK

SIGN No. 27352

SIGN No. 27702



TO EXISTING 120/240 V
SERVICE EQUIPMENT ENCLOSURE
ID No. 07-53-405-0-027.438
WASHINGTON AND SEPULVEDA

MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

NO SCALE

E-26A

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

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

USERNAME => tramaguya
DGN FILE => 71178u0026.dgn

CU 07382 | EA 1178U1

LAST REVISION 00-00-00 | DATE PLOTTED => 17-FEB-2004 | TIME PLOTTED => 08:50

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1028	1697

Johannes O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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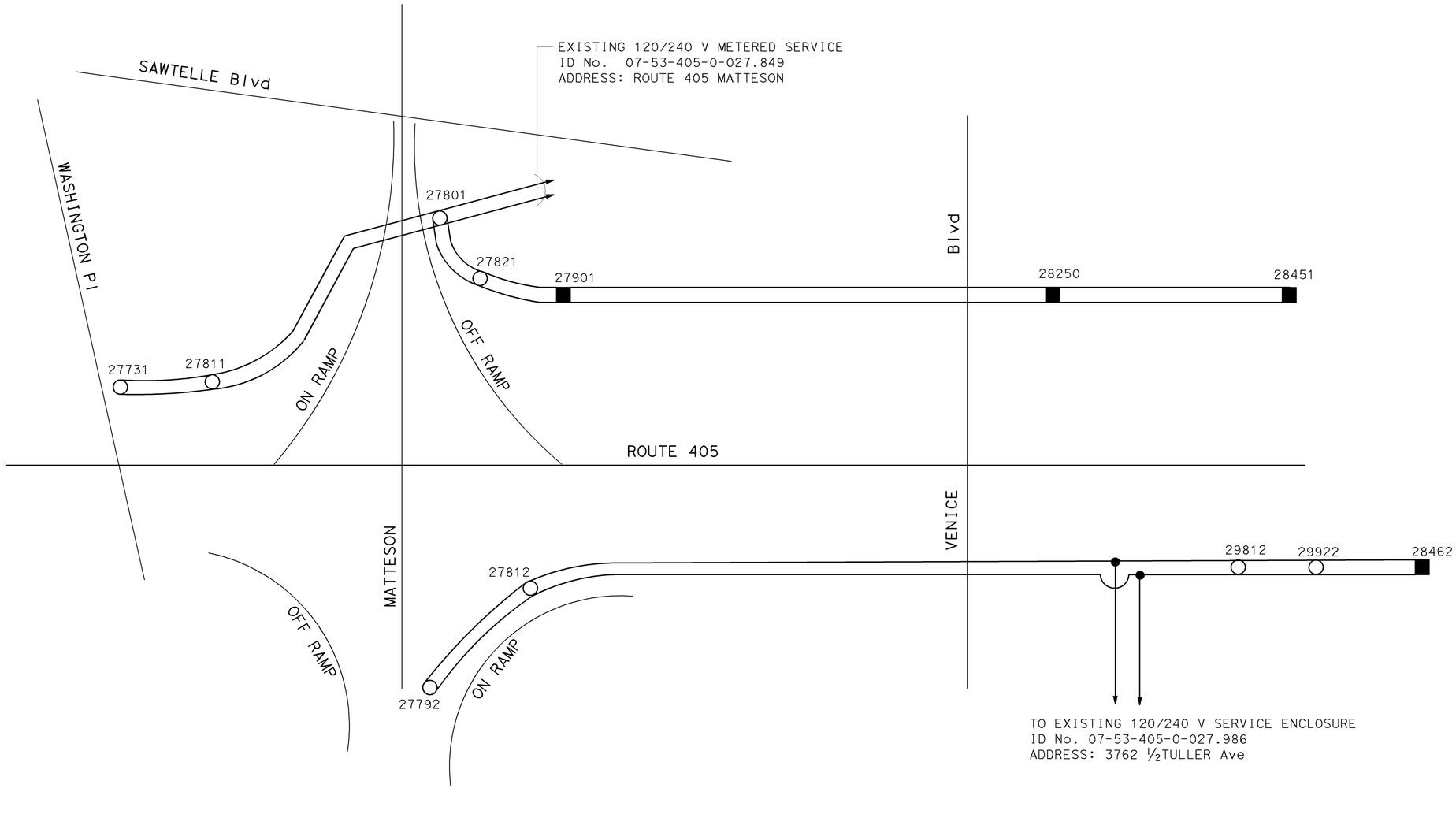
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

NO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-27

PROJECT ENGINEER: OHANNES ANSERLIAN
CALCULATED/DESIGNED BY
CHECKED BY

DATE	REVISED BY	DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu027.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1029	1697

Johannes O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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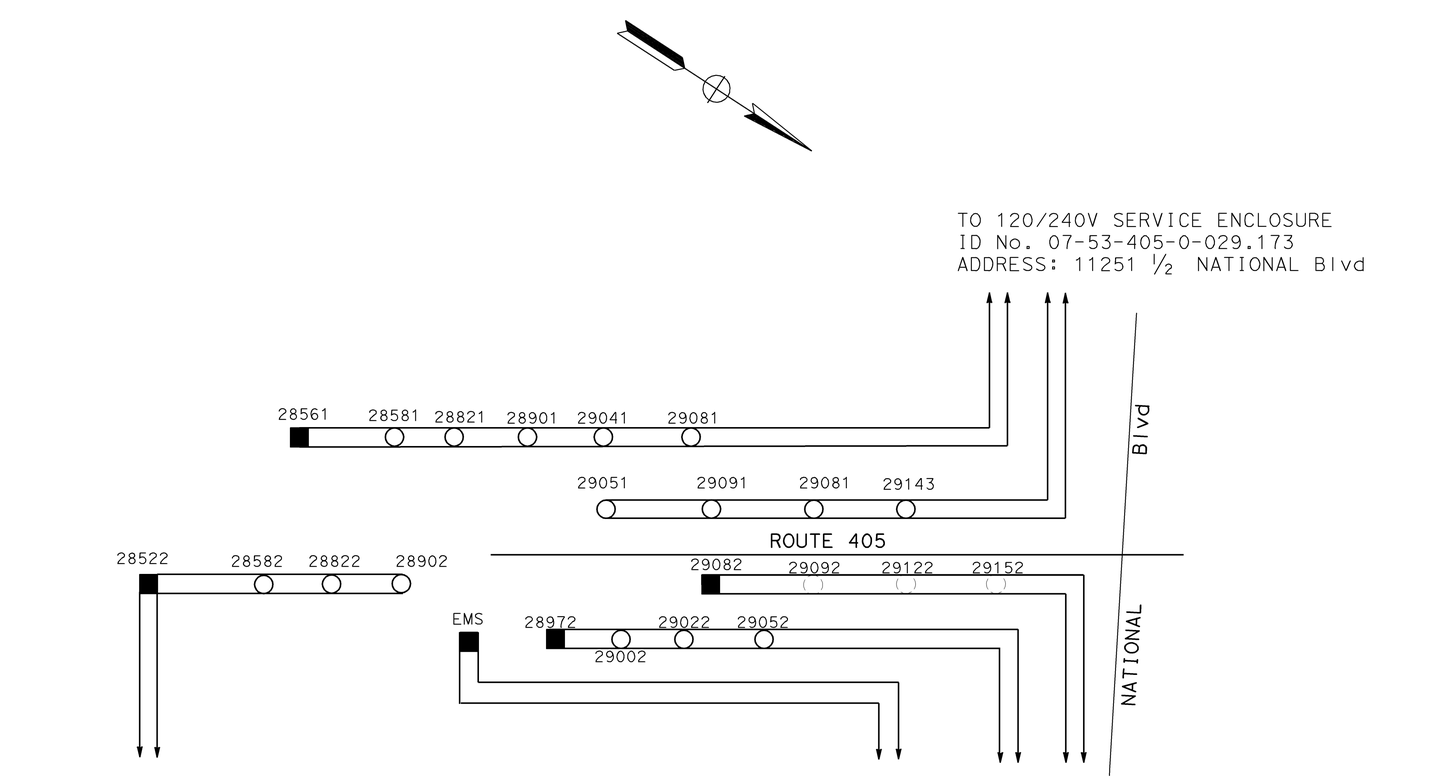
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

NO SCALE

E-28

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu028.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1030	1697

Ohannes O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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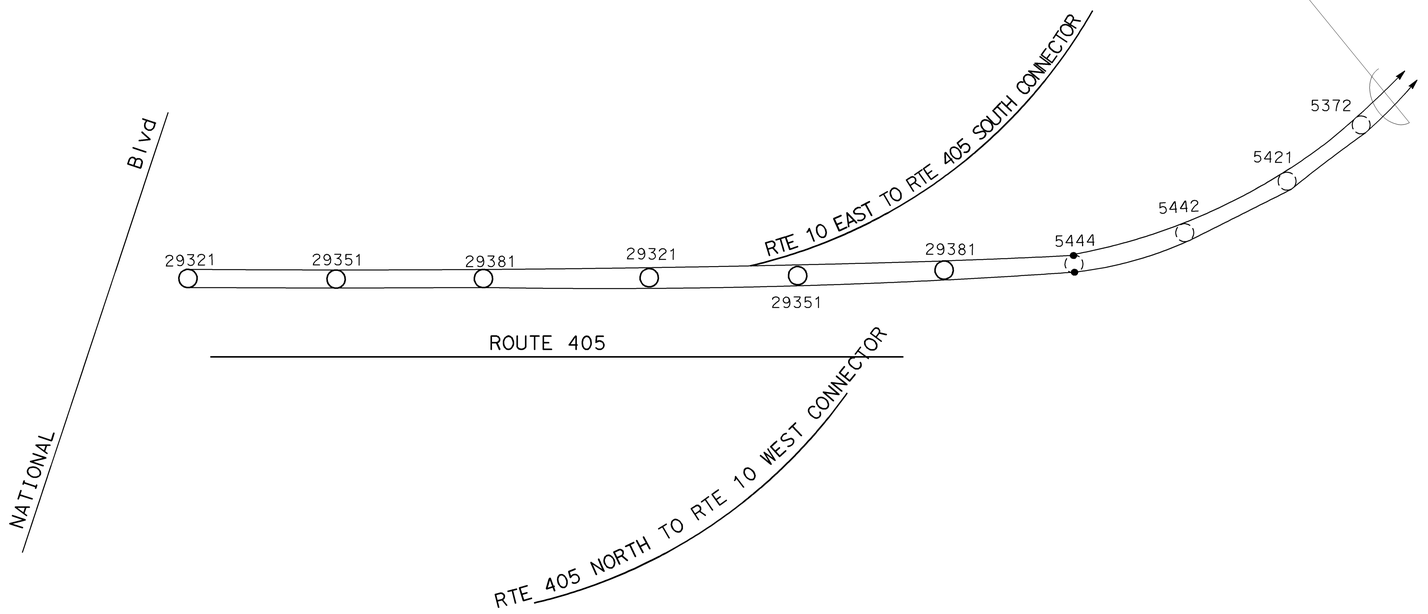
AS-BUILT

Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

TO EXISTING 120/240 V TYPE III-BF
SERVICE ENCLOSURE.
ID No. 07-53-10-0-005.308
ADDRESS: 11305 ½ SAWTELLE Ave



ALL DIMENSIONS ARE IN
METERS UNLESS OTHERWISE SHOWN

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY LIGHTING AND SIGN ILLUMINATION
(WIRING DIAGRAM)

NO SCALE

E-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER
OHANNES ANSERLIAN

CALCULATED/ DESIGNED BY
CHECKED BY

DATE	REVISED BY	DATE REVISED

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

USERNAME => s110796
DGN FILE => 71178uu029.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:44

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1031	1697

Caltrans Metric

Ohannes O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER O. ANSERLIAN No. E16682 Exp 6/30/2006 ELECTRICAL STATE OF CALIFORNIA

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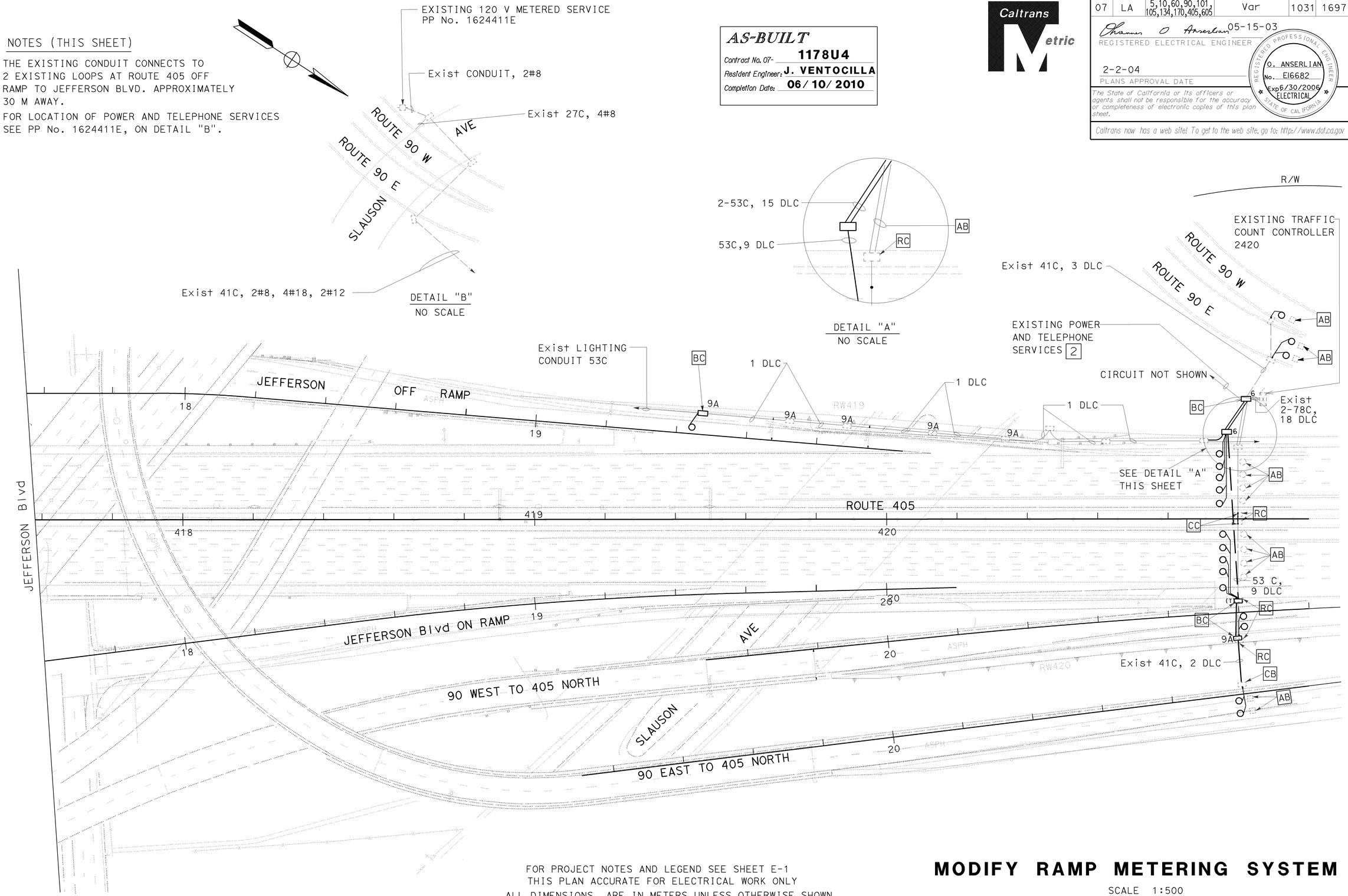
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

NOTES (THIS SHEET)

1. THE EXISTING CONDUIT CONNECTS TO 2 EXISTING LOOPS AT ROUTE 405 OFF RAMP TO JEFFERSON BLVD. APPROXIMATELY 30 M AWAY.
2. FOR LOCATION OF POWER AND TELEPHONE SERVICES SEE PP No. 1624411E, ON DETAIL "B".



NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER MICHAEL MARVI

CALCULATED/DESIGNED BY | CHECKED BY | DATE | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:44

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

USERNAME => s110796
DGN FILE => 71178uu030.dgn

CU 07382 | EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1032	1697

Caltrans Metric

Channes O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER DATE

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
O. ANSERLIAN
No. E16682
Exp. 6/30/2006
ELECTRICAL
STATE OF CALIFORNIA

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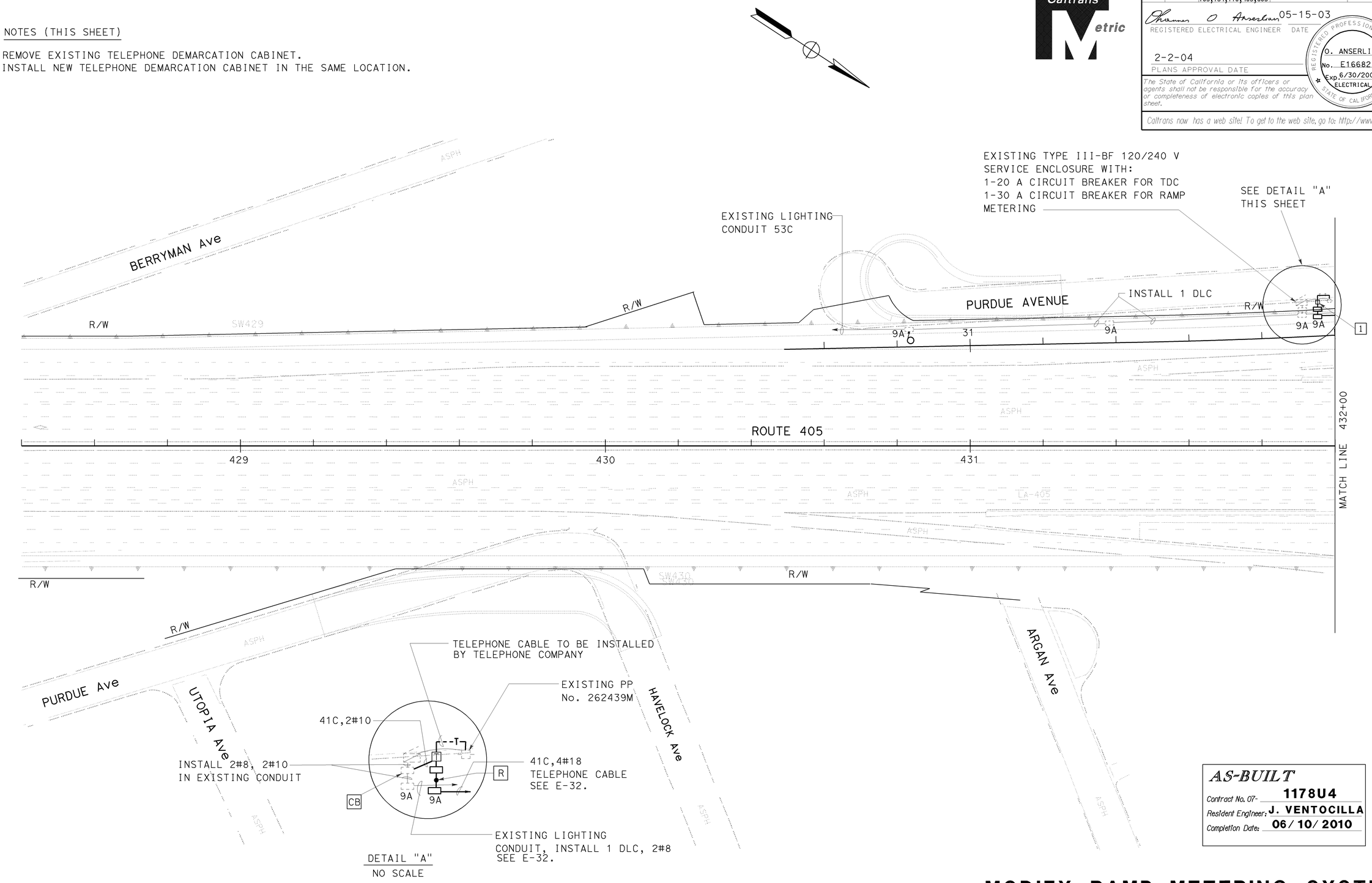
NOTES (THIS SHEET)

1 REMOVE EXISTING TELEPHONE DEMARCATION CABINET.
INSTALL NEW TELEPHONE DEMARCATION CABINET IN THE SAME LOCATION.



DETAIL "A"
NO SCALE

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

PROJECT ENGINEER MICHAEL MARVI

CALCULATED/DESIGNED BY | CHECKED BY | DATE | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:44

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu031.dgn

CU 07382 | EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1033	1697

REGISTERED ELECTRICAL ENGINEER — 05-15-03

O. ANSERLIAN No. EI6682 Exp.6/30/2006 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-2-04
PLANS APPROVAL DATE

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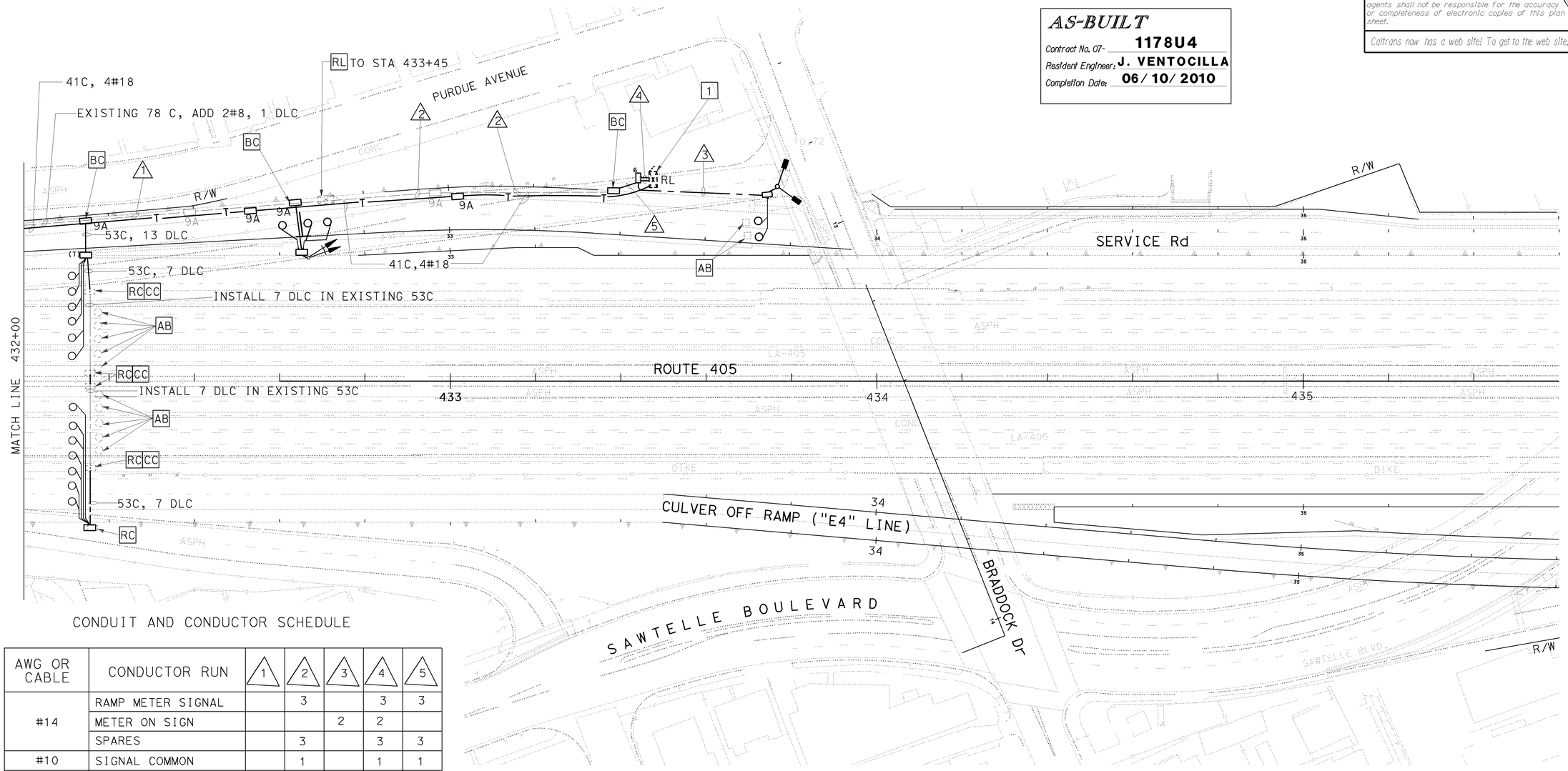
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

NOTES (THIS SHEET)

1 INSTALL RELOCATED CONTROLLER ON A NEW FOUNDATION



CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5
#14	RAMP METER SIGNAL		3		3	3
	METER ON SIGN			2	2	
	SPARES		3		3	3
#10	SIGNAL COMMON		1		1	1
DLC	MAIN LINE DETECTOR	13	13		13	13
	QUEUE DETECTOR			2	2	
	DEMAND DETECTOR		1		1	1
	PASSAGE DETECTOR		1		1	1
	COUNT DETECTOR	1	1		1	1
	EXIT DETECTOR					
#8	SERVICE	2	2		2	2
CONDUIT SIZE		78(E)	78(E)	41	2-78	78

E= EXISTING

LOCATION 76

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-32

DATE | REVISED BY | DATE REVISED

CALCULATED/ DESIGNED BY | CHECKED BY

PROJECT ENGINEER — MICHAEL MARVI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans — **TRAFFIC DESIGN**

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:45

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

USERNAME => s110796
DGN FILE => 71178uu032.dgn

CU 07382 | EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1034	1697

Thomas O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — O. ANSERLIAN No. E16682 Exp.6/30/2006 ELECTRICAL — STATE OF CALIFORNIA

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CONDUIT AND CONDUCTOR SCHEDULE

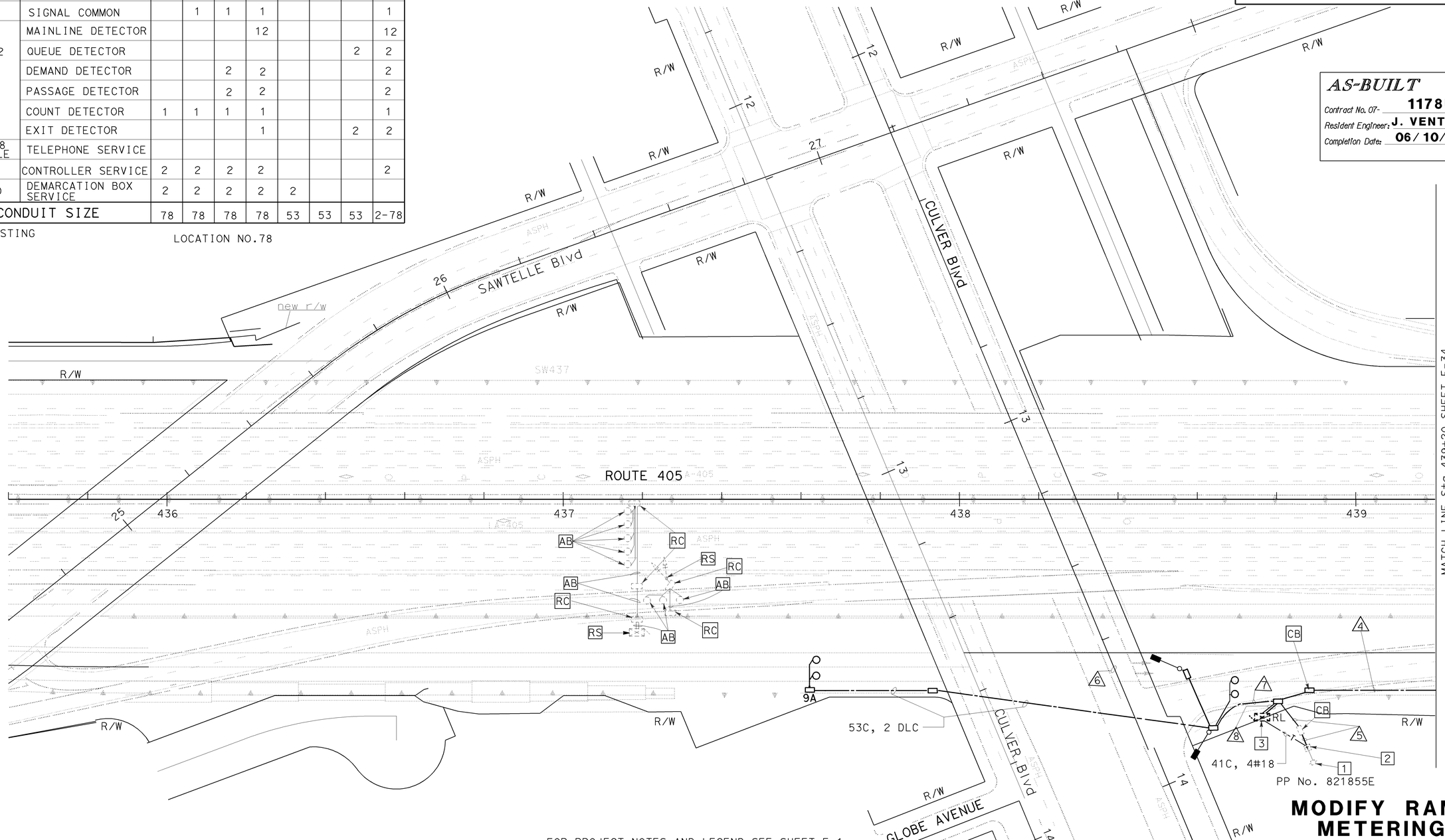
AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8
#14	RAMP METER SIGNAL		3	3	3				3
	METER ON SIGN						2	2	2
	SPARES		3	3	3				3
#10	SIGNAL COMMON		1	1	1				1
2#12 DLC	MAINLINE DETECTOR				12				12
	QUEUE DETECTOR							2	2
	DEMAND DETECTOR			2	2				2
	PASSAGE DETECTOR			2	2				2
	COUNT DETECTOR	1	1	1	1				1
	EXIT DETECTOR				1			2	2
4#18 CABLE	TELEPHONE SERVICE								
#6	CONTROLLER SERVICE	2	2	2	2				2
#10	DEMARCATION BOX SERVICE	2	2	2	2	2			
CONDUIT SIZE		78	78	78	78	53	53	53	2-78

E=EXISTING

LOCATION NO.78

NOTES (THIS SHEET)

1. REMOVE EXISTING POWER SERVICE
2. INSTALL EXISTING TELEPHONE DEMARCATION BOX ON NEW FOUNDATION
3. INSTALL RL CONTROLLER ON NEW FOUNDATION



AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER
MICHAEL MARVI

CALCULATED/ DESIGNED BY
CHECKED BY

DATE REVISED BY
DATE REVISED

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

USERNAME => s110796
DGN FILE => 71178uu033.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:45

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1035	1697

Thomas O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

O. ANSERLIAN No. E16682 Exp. 6/30/2006 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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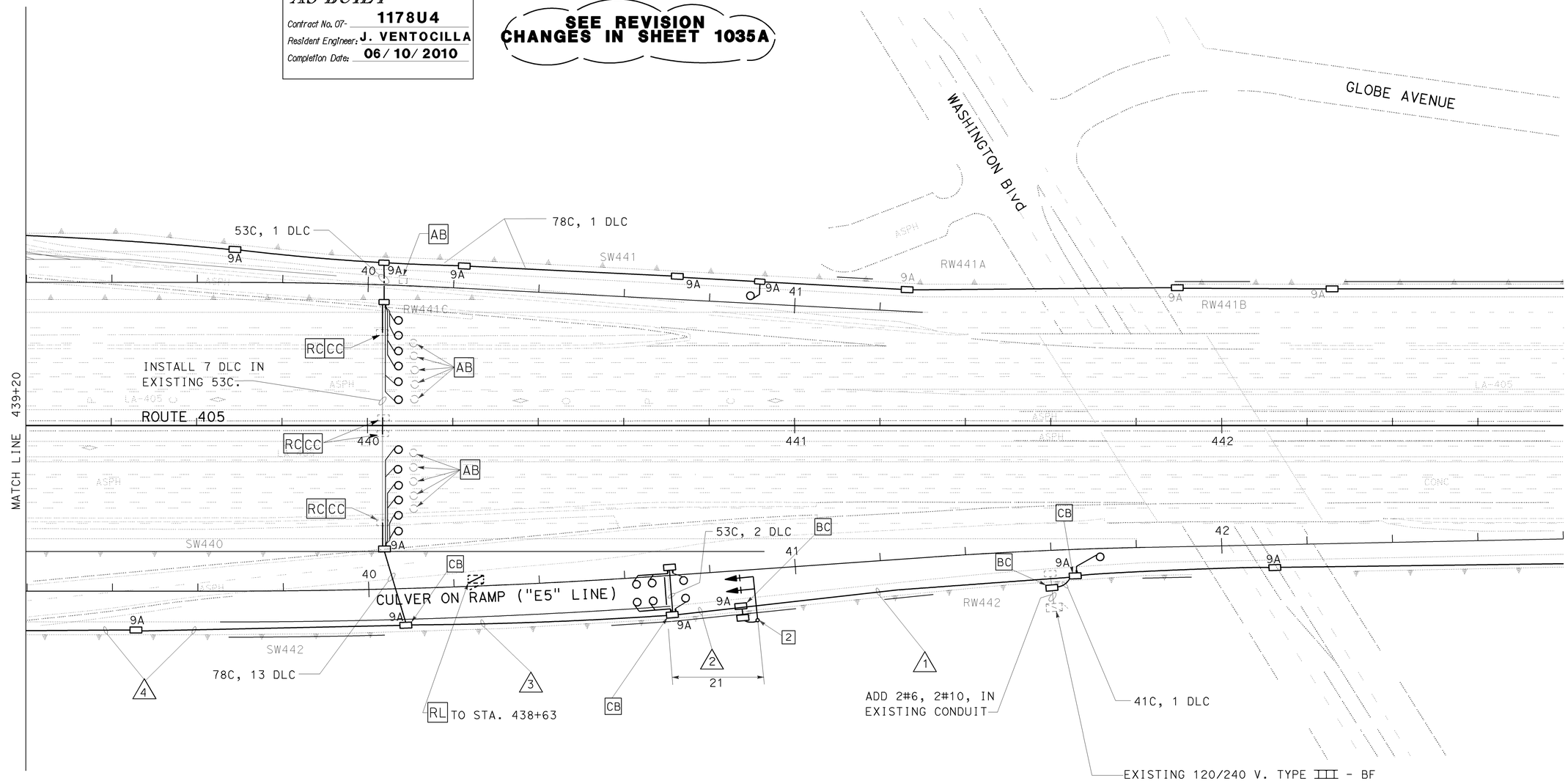
Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

NOTES (THIS SHEET)

1. FOR CONDUCTOR SCHEDULE REFER TO SHEET E-63
2. INSTALL ONE TYPE 18-3-129 SIGNAL STANDARD WITH 9.1M MAST ARM AT THE BACK OF SOUNDWALL FOR RAMP METERING

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE REVISION CHANGES IN SHEET 1035A



EXISTING 120/240 V. TYPE III - BF SERVICE EQUIPMENT INSTALL:
1 - 30A. 120 V. 1P CIRCUIT BREAKER FOR RAMP METERING.
1 - 20A. 120 V. CIRCUIT BREAKER FOR DEMARCATION BOX.

NOTE:
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-34

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		

PROJECT ENGINEER: MICHAEL MARVI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00 DATE PLOTTED => 11-APR-2011 TIME PLOTTED => 14:43

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s111708
DGN FILE => 71178uu034.dgn

CU 07382 EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1035A	1697

Caltrans Metric

Channer O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER O. ANSERLIAN No. E16682 Exp. 6/30/2006 ELECTRICAL STATE OF CALIFORNIA

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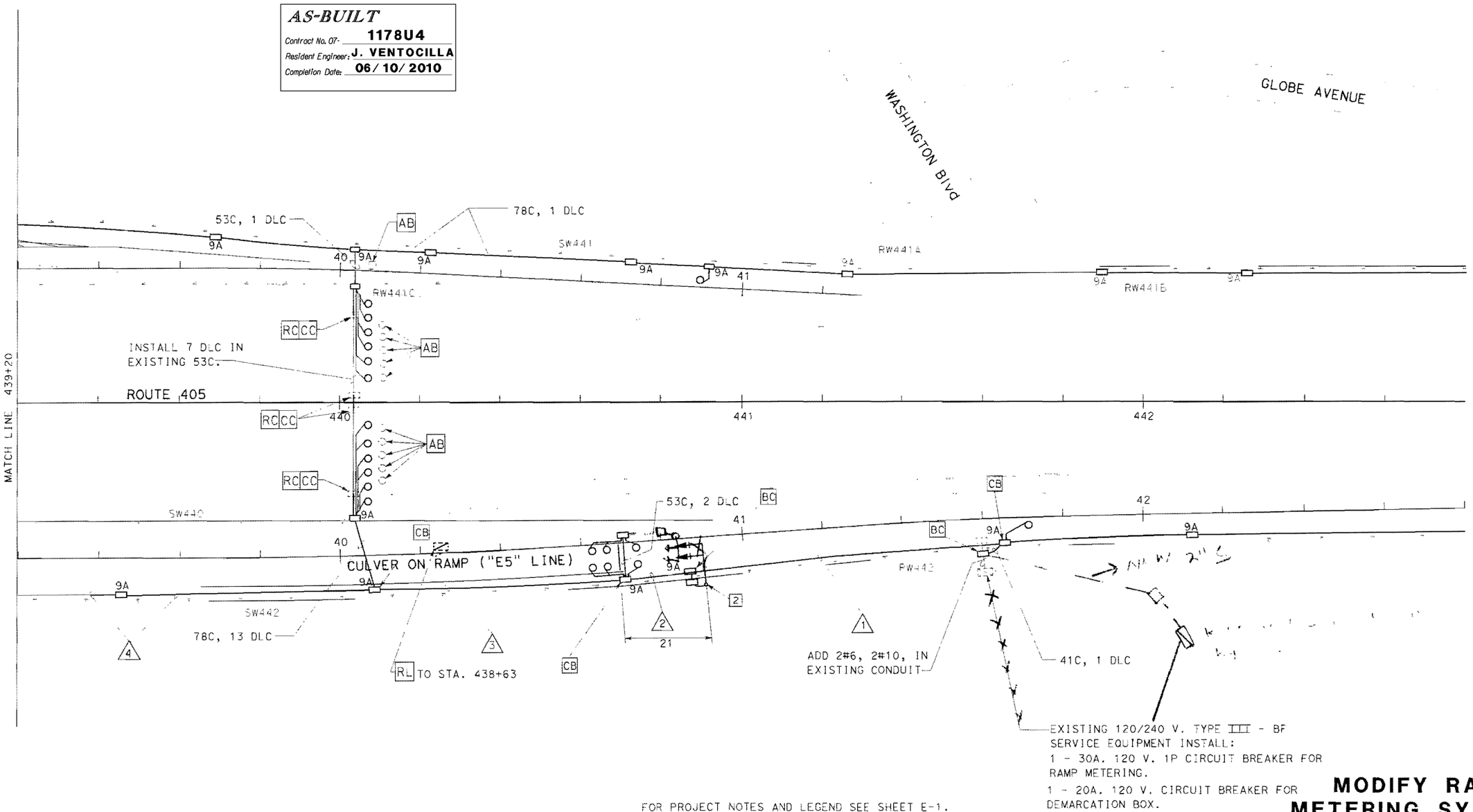
NOTES (THIS SHEET)

1. FOR CONDUCTOR SCHEDULE REFER TO SHEET E-63
2. INSTALL ONE TYPE 18-3-129 SIGNAL STANDARD WITH 9.1M MAST ARM AT THE BACK OF SOUNDWALL FOR RAMP METERING

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010



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

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-34A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

PROJECT ENGINEER: MICHAEL MARVI

CALCULATED/DESIGNED BY | CHECKED BY | DATE | REVISED BY | DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

USERNAME = [illegible]
DGN FILE = [illegible]

CU 07382 | EA 1178U1

LAST REVISION 00-00-00 | DATE PLOTTED = 25-FEB 2004 | TIME PLOTTED = 14:36

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1037	1697

Thomas O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

O. ANSERLIAN No. E16682 Exp.6/30/2006 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-2-04
PLANS APPROVAL DATE

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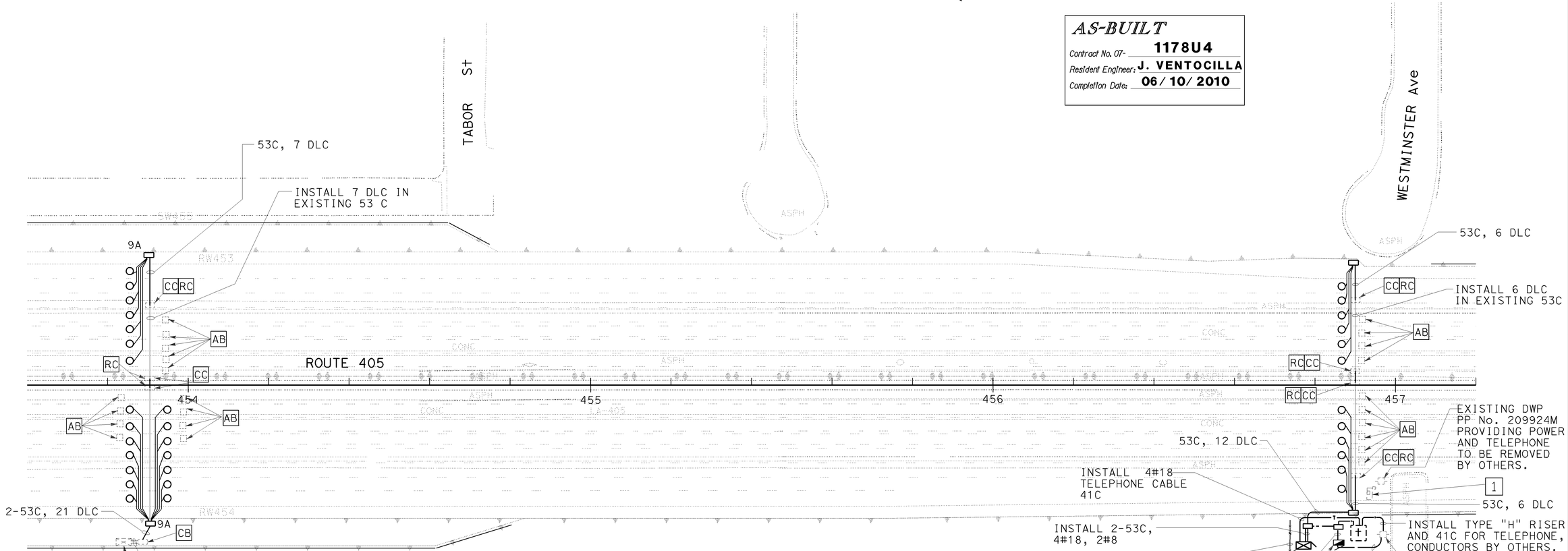
NOTES (THIS SHEET)

1 REMOVE EXISTING CONTROLLER CABINET AND SERVICE EQUIPMENT. RELOCATE TDC.

AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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

TRAFFIC COUNT STATIONS

SCALE 1:500

E-36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
PROJECT ENGINEER
MICHAEL MARVI

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:45

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu036.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1036	1697

REGISTERED ELECTRICAL ENGINEER — 05-15-03

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — O. ANSERLIAN No. E16682 Exp.6/30/2006 ELECTRICAL — STATE OF CALIFORNIA

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PROJECT NOTE (THIS SHEET ONLY)

1. RC ALL EXISTING CONDUCTORS.
2. RC EXISTING 120 V SERVICE. RETAIN TELEPHONE SERVICE
3. INSTALL 2 METER-ON SIGNALS, ONE AT EACH CORNER OF MATTESON AVE/SEPULVEDA BLV. ON TYPE 1A POLE.

TO EXISTING METER ON SIGNALS

EXISTING SERVICE EQUIPMENT ENCLOSURE WITH:
1-30 A, 120 V,1P CIRCUIT BREAKER FOR RAMP METERING
1-20 A, 120 V, 1P CIRCUIT BREAKER FOR TDC
ID No.07-53-405-0-022.849

EXISTING PP No.1169617 M

EXISTING TELEPHONE AND 120 V POWER SERVICE PP No.825048E

ADD 2#8 AND 2#10 IN EXISTING 53C

RELOCATED EXISTING CONTROLLER

41C, 1 DLC

RL TO STA. 447+63

GLOBE AVE

MATTESON SB ON RAMP ("W6" LINE)

MATTESON SB OFF RAMP ("W7" LINE)

MATTESON Ave

VENICE Blvd

ROUTE 405

MATCH LINE 446+40

MATTESON NB OFF RAMP ("E6" LINE)

MATTESON NB ON RAMP ("E7" LINE)

TULLER Ave

53C,2#8

41C,2#8

EXISTING LIGHTING CONDUIT

CITY OF LOS ANGELES
CITY OF CULVER CITY

CONDUIT AND CONDUCTOR SCHEDULE
LOCATION 80

AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9
#14	RAMP METER SIGNAL						3	3		3
	METER ON SIGN	2	2		2			2		2
	SPARES						3	3		3
#10	SIGNAL COMMON						1	1		1
DLC	MAINLINE DETECTOR								6	6
	QUEUE DETECTOR	2	2		2			2		2
	DEMAND DETECTOR						1	1		1
	PASSAGE DETECTOR						1	1		1
	COUNT DETECTOR					1	1	1		1
	EXIT DETECTOR								1	1
4#18	TELEPHONE SERVICE			1					1	2
#8	CONTROLLER SERVICE				2			2		2
#10	DEMARCATION BOX SERVICE		2							2
CONDUIT SIZE		41E	41	41	41	41	41	53	53	2-78

E=EXISTING

CONDUIT AND CONDUCTOR SCHEDULE
LOCATION 79

AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8
#14	RAMP METER SIGNAL					3			3
	METER ON SIGN	2				2			2
	SPARES					3			3
#10	SIGNAL COMMON					1			1
DLC	MAINLINE DETECTOR							6	6
	QUEUE DETECTOR	2				2			2
	DEMAND DETECTOR					1			1
	PASSAGE DETECTOR					1			1
	COUNT DETECTOR				1	1			1
	EXIT DETECTOR			1					1
4#18	TELEPHONE SERVICE						1	1	1
#8	CONTROLLER SERVICE		2						2
#10	DEMARCATION BOX SERVICE								
CONDUIT SIZE		53	53	41E	53	53	53E	53	2-78E

E=EXISTING

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

EXISTING 120/240 V SERVICE EQUIPMENT ENCLOSURE.
INSTALL 1-30 A 1P 120 V CIRCUIT BREAKER FOR RAMP METERING.
ADDRESS: 3905½SEPULVEDA BLVD.
ID No.07-53-405-0-027.793

3 TO 2 METER-ON SIGNALS

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-35

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT ENGINEER
MICHAEL MARVI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:45

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

USERNAME => s110796
DGN FILE => 71178uu035.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1038	1697

Thomas O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
O. ANSERLIAN
No. E16682
Exp. 6/30/2006
ELECTRICAL
STATE OF CALIFORNIA

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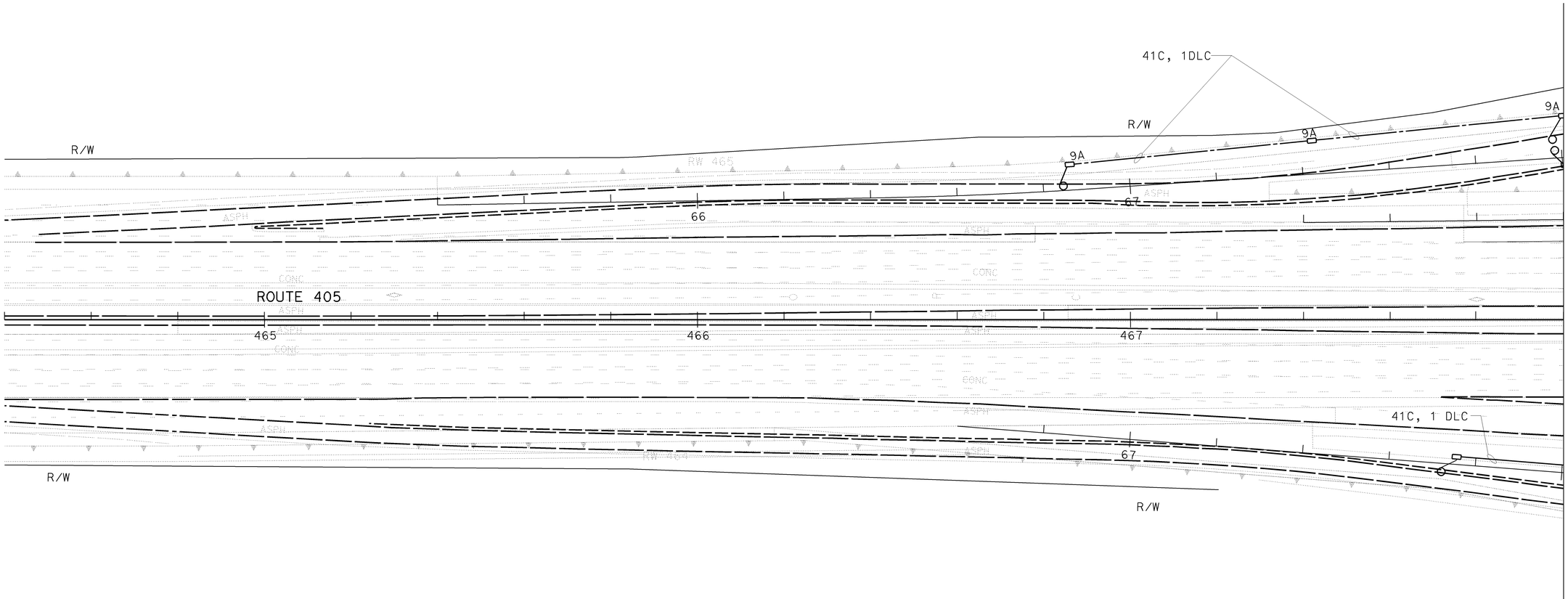

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-37

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
PROJECT ENGINEER MICHAEL MARVI
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu037.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:45

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1039	1697

Thomas O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — O. ANSERLIAN No. E16682 Exp. 6/30/2006 ELECT — STATE OF CALIFORNIA

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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE REVISION CHANGES IN SHEET 1039A

NOTES (THIS SHEET)

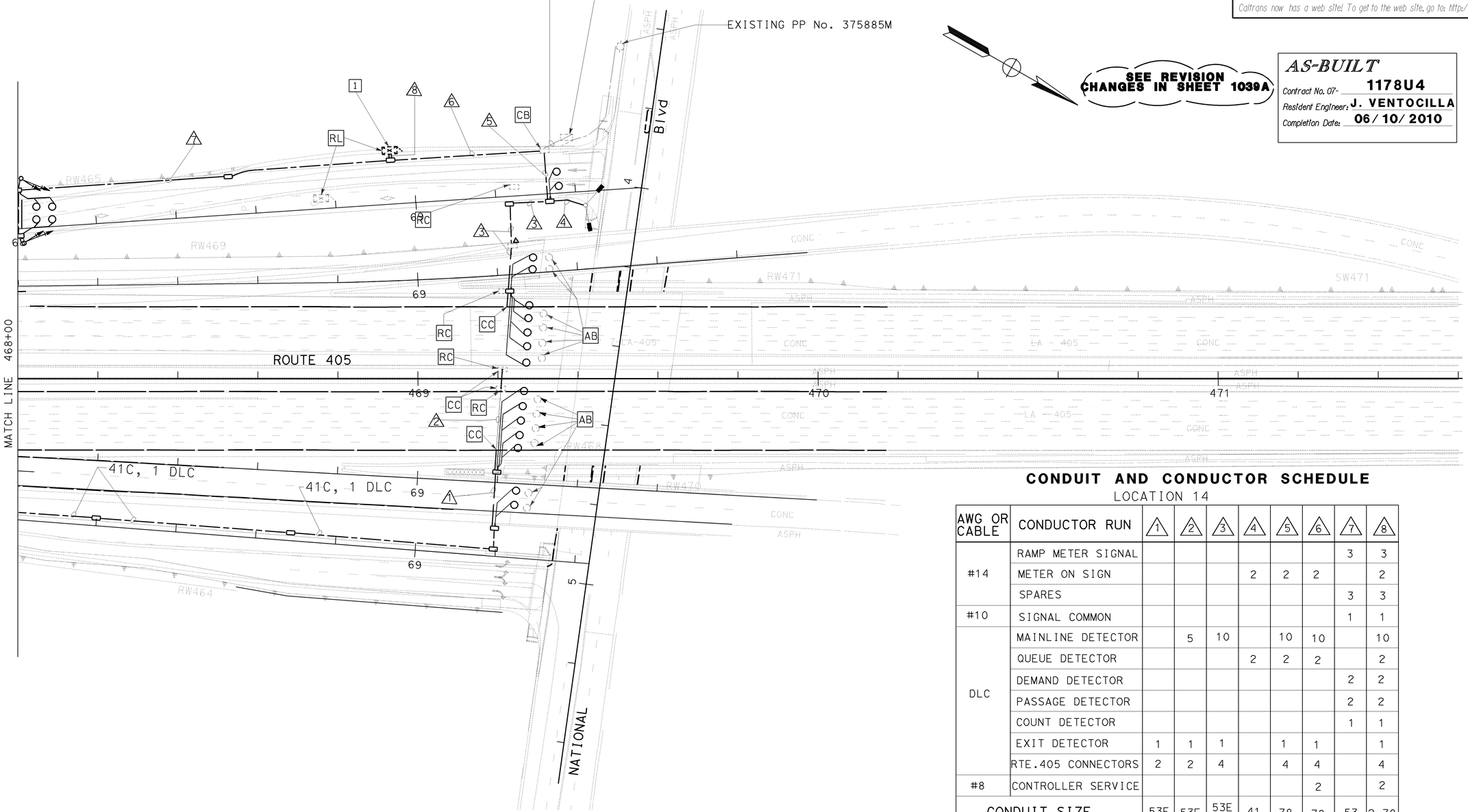
1 INSTALL RELOCATED CONTROLLER ON NEW FOUNDATION.

PLACE "METER ON" SIGN DOUBLE HEAD,

EXISTING 120/240 V TYPE III-BF ENCLOSURE WITH:
1 - 100 A, 2P 240 V MAIN CIRCUIT BREAKER
2 - 30 A, 2P 240 V CIRCUIT BREAKER FOR FREEWAY LIGHTING
1 - 40 A, 1P 120 V CIRCUIT BREAKER FOR RAMP METERING
1 - 15 A, 1P 120 V PEC

INSTALL 2#8 IN EXISTING 53C

EXISTING PP No. 375885M



CONDUIT AND CONDUCTOR SCHEDULE

LOCATION 14

AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8
#14	RAMP METER SIGNAL							3	3
	METER ON SIGN				2	2	2		2
	SPARES							3	3
#10	SIGNAL COMMON							1	1
DLC	MAINLINE DETECTOR		5	10		10	10		10
	QUEUE DETECTOR				2	2	2		2
	DEMAND DETECTOR							2	2
	PASSAGE DETECTOR							2	2
	COUNT DETECTOR							1	1
	EXIT DETECTOR	1	1	1		1	1		1
	RTE.405 CONNECTORS	2	2	4		4	4		4
#8	CONTROLLER SERVICE						2		2
CONDUIT SIZE		53E	53E	53E &41E	41	78	78	53	2-78

E = EXISTING

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-38

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
PROJECT ENGINEER: MICHAEL MARVI
CALCULATED/DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 11-APR-2011 TIME PLOTTED => 14:44

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s111708
DGN FILE => 71178uu038.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1039A	1697

Thomas O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER O. ANSERLIAN No. E16682 Exp. 6/30/2006 ELECT STATE OF CALIFORNIA

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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

NOTES (THIS SHEET)

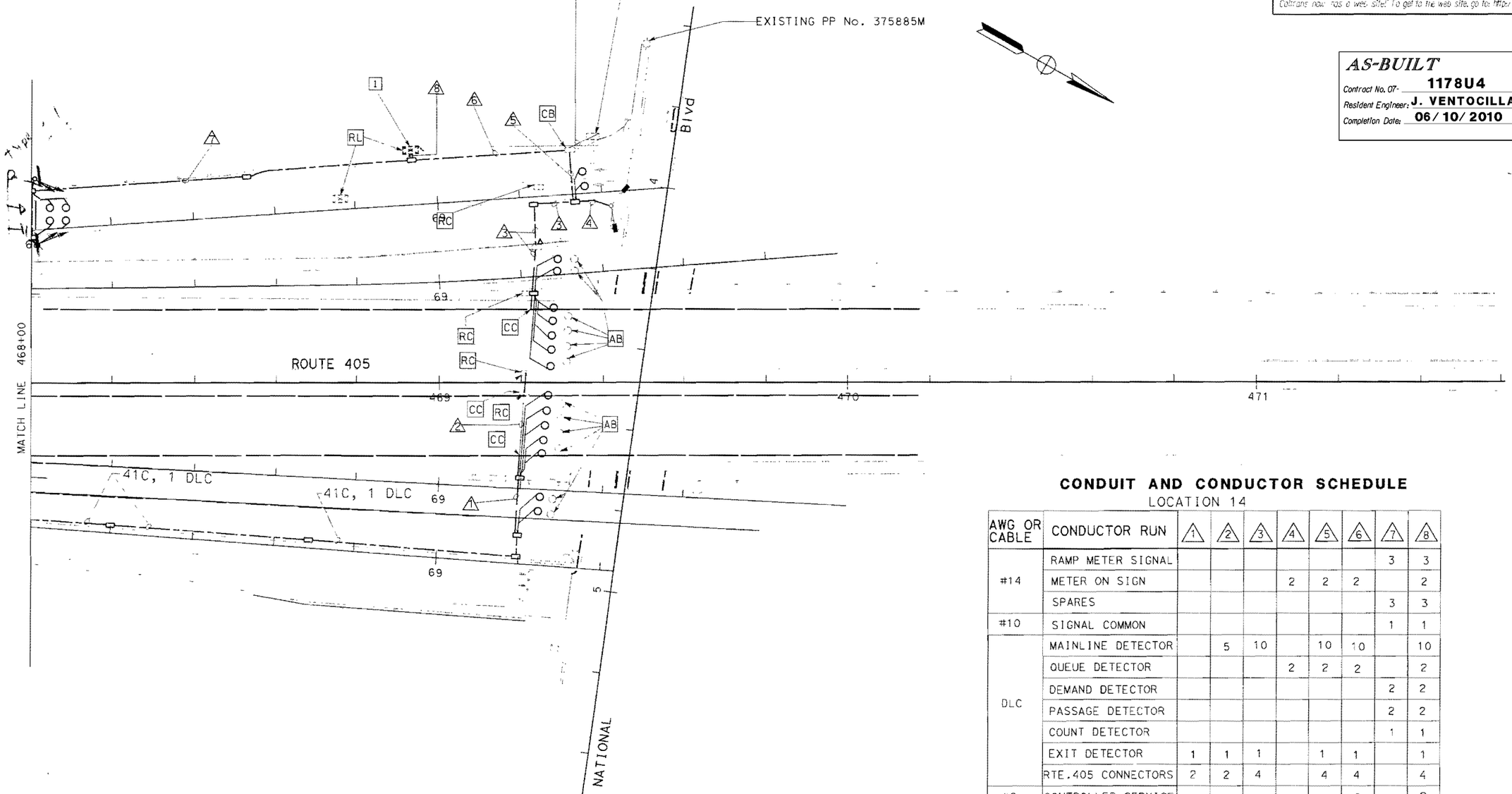
[1] INSTALL RELOCATED CONTROLLER ON NEW FOUNDATION.

PLACE "METER ON" SIGN DOUBLE HEAD,

EXISTING 120/240 V TYPE III-BF ENCLOSURE WITH:
1 - 100 A, 2P 240 V MAIN CIRCUIT BREAKER
2 - 30 A, 2P 240 V CIRCUIT BREAKER FOR FREEWAY LIGHTING
1 - 40 A, 1P 120 V CIRCUIT BREAKER FOR RAMP METERING
1 - 15 A, 1P 120 V PEC

INSTALL 2#8 IN EXISTING 53C

EXISTING PP No. 375885M



CONDUIT AND CONDUCTOR SCHEDULE
LOCATION 14

AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8
#14	RAMP METER SIGNAL							3	3
	METER ON SIGN				2	2	2		2
	SPARES							3	3
#10	SIGNAL COMMON							1	1
DLC	MAINLINE DETECTOR		5	10		10	10		10
	QUEUE DETECTOR				2	2	2		2
	DEMAND DETECTOR							2	2
	PASSAGE DETECTOR							2	2
	COUNT DETECTOR							1	1
	EXIT DETECTOR	1	1	1		1	1		1
	RTE.405 CONNECTORS	2	2	4		4	4		4
#8	CONTROLLER SERVICE						2		2
CONDUIT SIZE		53E	53E	53E &41E	41	78	78	53	2-78

E = EXISTING

NOTE:
1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY RAMP METERING SYSTEM

SCALE 1:500

E-38A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**
PROJECT ENGINEER MICHAEL MARVI
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED = 26-FEB-2004
TIME PLOTTED = 08:05

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USER NAME = TTTUTTE8
DGN FILE = T1178U01E38.dgn

CU 07382 EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1040	1697

Caltrans Metric

Chauncey O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
O. ANSERLIAN
No. E16682
Exp.6/30/2006
ELECTRICAL
STATE OF CALIFORNIA

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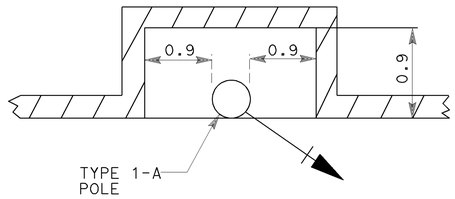
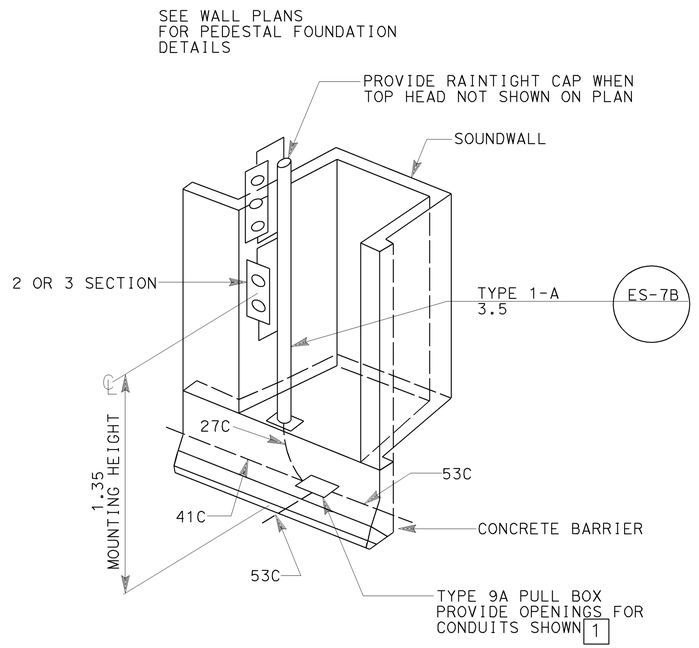
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

SEE REVISION CHANGES IN SHEET 1040A



PLAN VIEW



DETAIL A

NOTES:(THIS SHEET)

1 FOR EXACT SIZE OF CONDUIT OPENING FOR TYPE 9A PULL BOX, REFER TO RESPECTIVE PLAN

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

RAMP METERING SYSTEM DETAILS

NO SCALE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-39

LAST REVISION 00-00-00
DATE PLOTTED => 11-APR-2011
TIME PLOTTED => 14:44

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

PROJECT ENGINEER
MICHAEL MARVI

DATE	REVISED BY	DATE REVISED

CALCULATED/ DESIGNED BY
CHECKED BY

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

USERNAME => s111708
DGN FILE => 71178uu039.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1040A	1697

O. Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

O. ANSERLIAN No. E16682 Exp. 6/30/2006 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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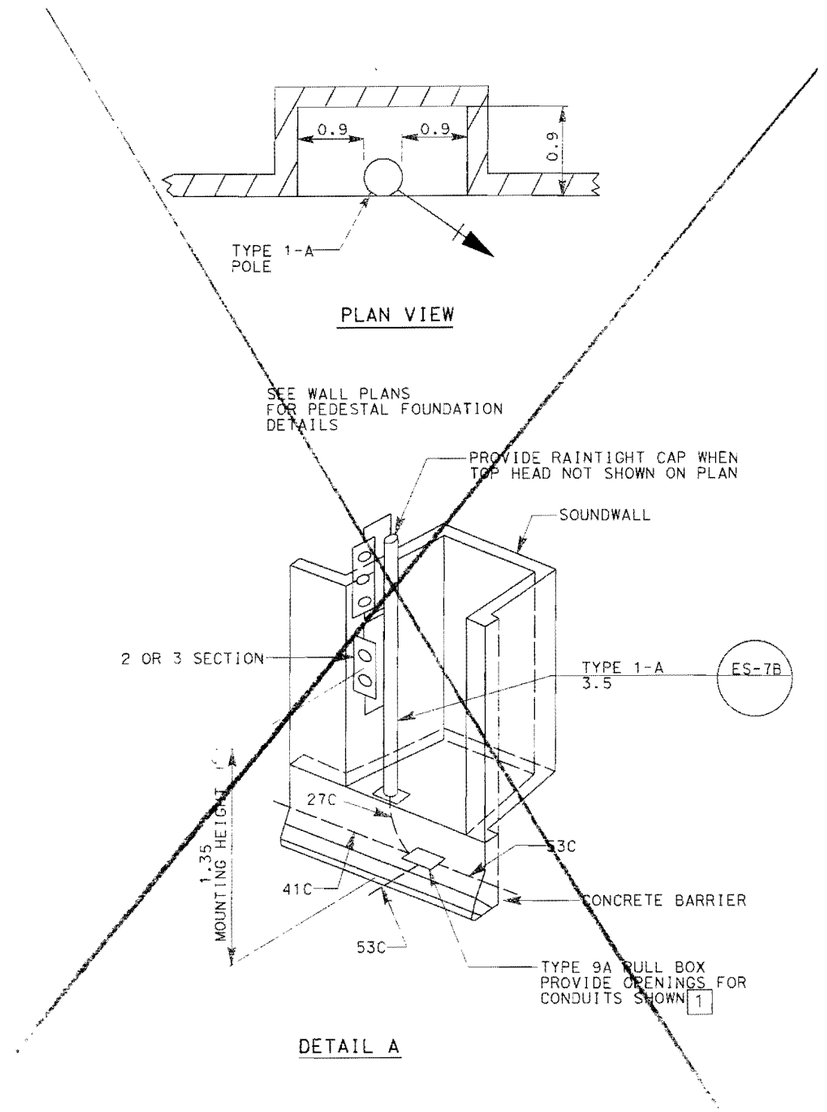
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010



NOTES: (THIS SHEET)

1 FOR EXACT SIZE OF CONDUIT OPENING FOR TYPE 9A PULL BOX, REFER TO RESPECTIVE PLAN

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RAMP METERING SYSTEM DETAILS

NO SCALE

E-39A

LAST REVISION 00-00-00 DATE PLOTTED = 17-FEB-2004 PLOTTED = 08:21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

PROJECT ENGINEER: MICHAEL MARVI

CALCULATED/DESIGNED BY
CHECKED BY

DATE	REVISED BY	DATE REVISED

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

USERNAME = rtrwikes
DGN FILE = T:\TSS\DGN\E39A.dgn

CU 07382 EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1041	1697

Caltrans Metric

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
O. ANSERLIAN
No. E16682
Exp. 6/30/2006
ELECTRICAL
STATE OF CALIFORNIA

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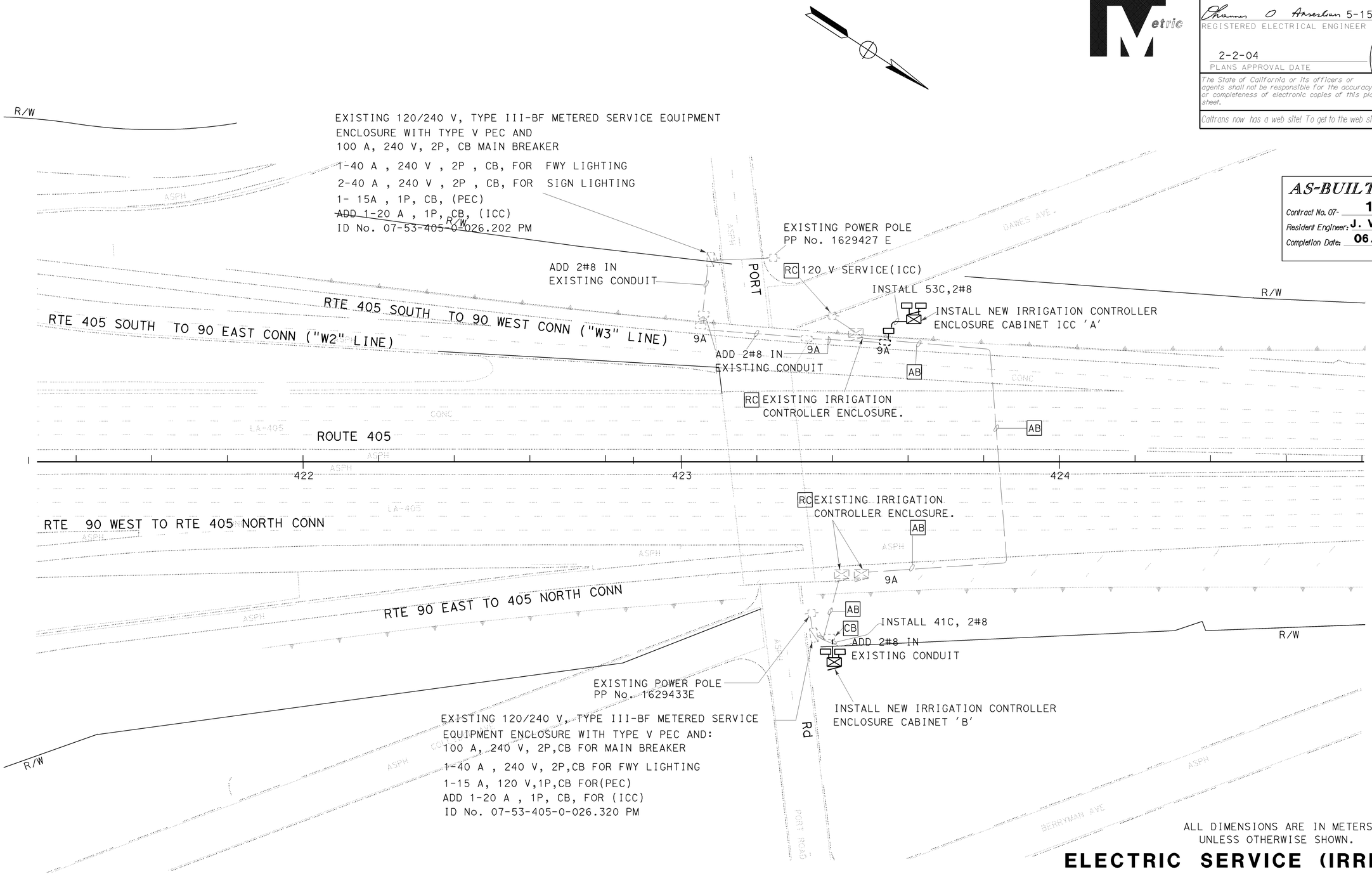
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

ELECTRIC SERVICE (IRRIGATION)
IRRIGATION CONTROLLER
ENCLOSURE CABINET

SCALE 1:500

E-40

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER
NOOSHIN ANSARI

CALCULATED/DESIGNED BY
CHECKED BY

DATE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:45

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

USERNAME => s110796
DGN FILE => 71178uu040.dgn

CU 07382

EA 1178U1

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1042	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
OHANNES ANSERLIAN
No. E-16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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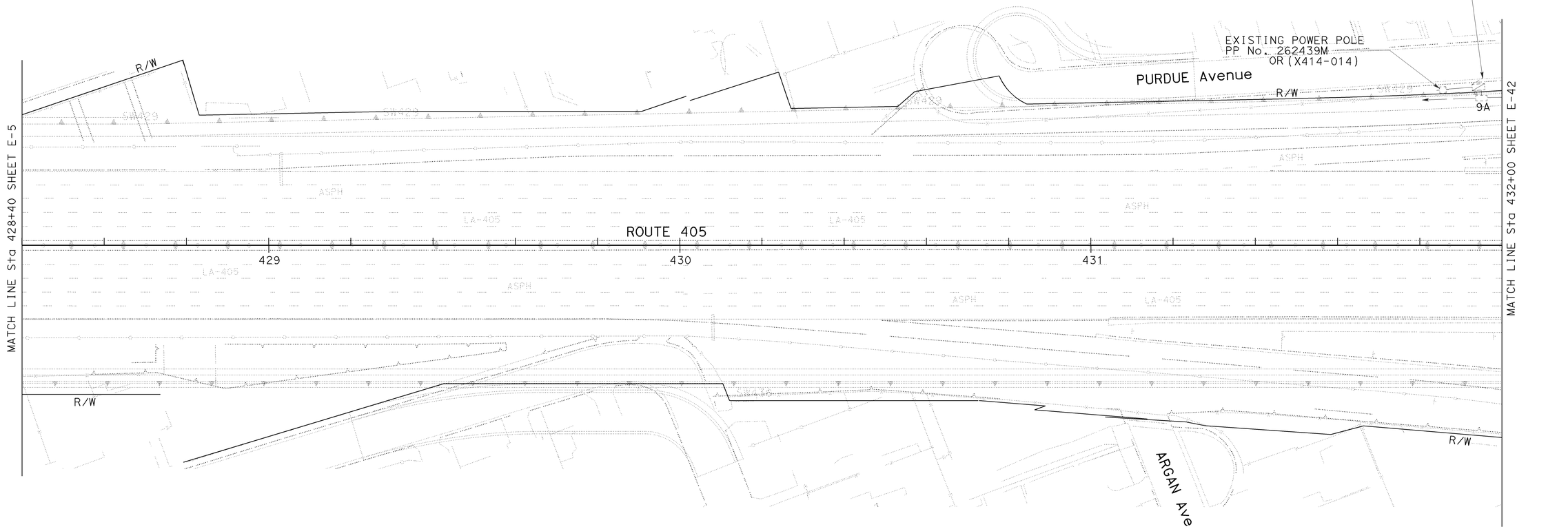
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

EXISTING 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE
WITH 100 A, 2P CB MAIN CB, 30 A, 2P CB FOR SIGN AND LIGHTING,
30 A, 1P FOR RAMP METERING AND 20 A, 1P FOR IRRIGATION CONTROL.
ID No. 07-53-405-0-026.810
ADDRESS: 4715 ½ PURDUE AVE.



FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEET E-25.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

* SEE SHEETS L-20 AND L-21 FOR CONSTRUCTION DETAILS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ELECTRIC SERVICE (IRRIGATION) IRRIGATION CONTROLLER ENCLOSURE CABINET

SCALE 1:500

E-41

DATE | REVISED BY | DATE REVISED
CALCULATED/ DESIGNED BY
CHECKED BY
PROJECT ENGINEER
OHANNES ANSERLIAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:45

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

USERNAME => s110796
DGN FILE => 71178uu041.dgn

CU 07382 | EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1043	1697

Shannon O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04

REGISTERED PROFESSIONAL ENGINEER
O. ANSERLIAN
No. E16682
Exp. 6/30/2006
ELECTRICAL
STATE OF CALIFORNIA

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AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

INSTALL NEW IRRIGATION CONTROLLER ENCLOSURE CABINET ICC 'C'

ADD 2#8 IN EXISTING CONDUIT

41C, 2#8

PURDUE Ave

PURDUE AVENUE

BRADDOCK Dr

MATCH LINE STA 432+00 SHEET E-41

ROUTE 405

LA-405

433 434 435

9A 9A 9A

BC

ASPH

CONC

DIKE

INSTALL 41C,2#8

CB

ADD 2#8 IN EXISTING CONDUIT
9A

RC EXISTING IRRIGATION CONTROLLER ENCLOSURE.

INSTALL NEW IRRIGATION CONTROLLER ENCLOSURE CABINET ICC 'D'

EXSTING 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC
100 A, 2P MAIN CB, 30 A, 2P FREEWAY LIGHTING
15 A, 1P PHOTOCELL CONTROL
ADD 1-20 A,120 V,IP,CB FOR (ICC)
07-53-405-00-26.780
ADDRESS: 4605½SOUTH SAWTELLE BIVD.

TAMIED AVE.

SAWTELLE BLVD.

BRADDOCK DR.

BRADDOCK AVENUE

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

ELECTRIC SERVICE (IRRIGATION)
IRRIGATION CONTROLLER ENCLOSURE CABINET

SCALE 1:500

E-42

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY

CHECKED BY

PROJECT ENGINEER
NOOSHIN ANSARI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

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

USERNAME => s110796
DGN FILE => 71178uu042.dgn

CU 07382

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:45

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1044	1697

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

Caltrans Metric

O. Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
O. ANSERLIAN
No. EI6682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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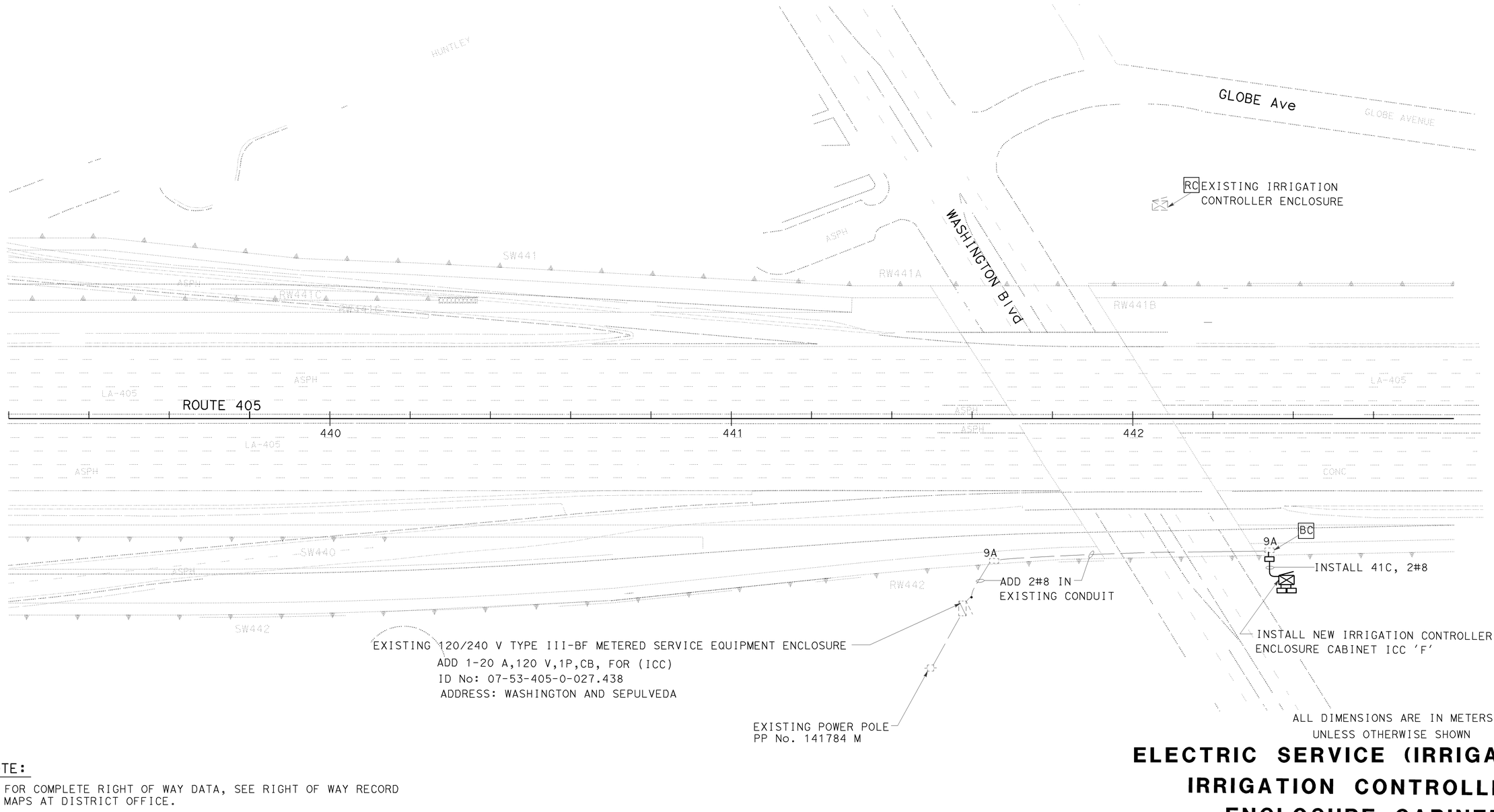

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

ELECTRIC SERVICE (IRRIGATION)
IRRIGATION CONTROLLER ENCLOSURE CABINET

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-43

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT ENGINEER
NOOSHIN ANSARI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:45

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USERNAME => s110796
DGN FILE => 71178uu043.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1045	1697

05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
O. ANSERLIAN
No. E16682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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EXISTING 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE
WITH TYPE V PEC.AND:
100 A,240 V,2P, CB (MAIN BREAKER)
1-40 A ,240 V, 2P, CB (FWY LIGHTING)
1-40 A ,240 V, 2P, CB (SIGN)
1- 15 A, 120 V, 1P, CB (PEC).
ADD 1-20 A, 120 V, 1P, CB (ICC)
ID #07-53-405-0-022.849
ADDRESS: ROUTE 405 MATTESON

R/W

MATTESON Ave

EXISTING POWER POLE
PP No. 1169617 M

ADD 2#8 IN EXISTING CONDUIT

9A

ADD 2#8 IN EXISTING CONDUIT

INSTALL NEW IRRIGATION CONTROLLER ENCLOSURE CABINET ICC 'E'

ADD 2#8 IN EXISTING CONDUIT

ADD 2#8 IN EXISTING CONDUIT

GLOBE AVENUE

SW449

INSTALL 41C,2#8

CB

INSTALL 41C,2#8

ASPH

LA-405

CONC

ROUTE 405

447

448

449

MATCH LINE Sta 450+00 SHEET E-45

TULLER AVENUE

R/W

MATTESON Ave

R/W

R/W

R/W

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

ELECTRIC SERVICE (IRRIGATION) IRRIGATION CONTROLLER ENCLOSURE CABINET

SCALE 1:500

E-44

DATE	REVISED BY	DATE REVISED

CALCULATED/ DESIGNED BY

CHECKED BY

PROJECT ENGINEER
NOOSHIN ANSARI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:45

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USERNAME => s110796
DGN FILE => 71178uu044.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1046	1697

Thomas O Anserlian 05-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
O. ANSERLIAN
No. EI6682
Exp 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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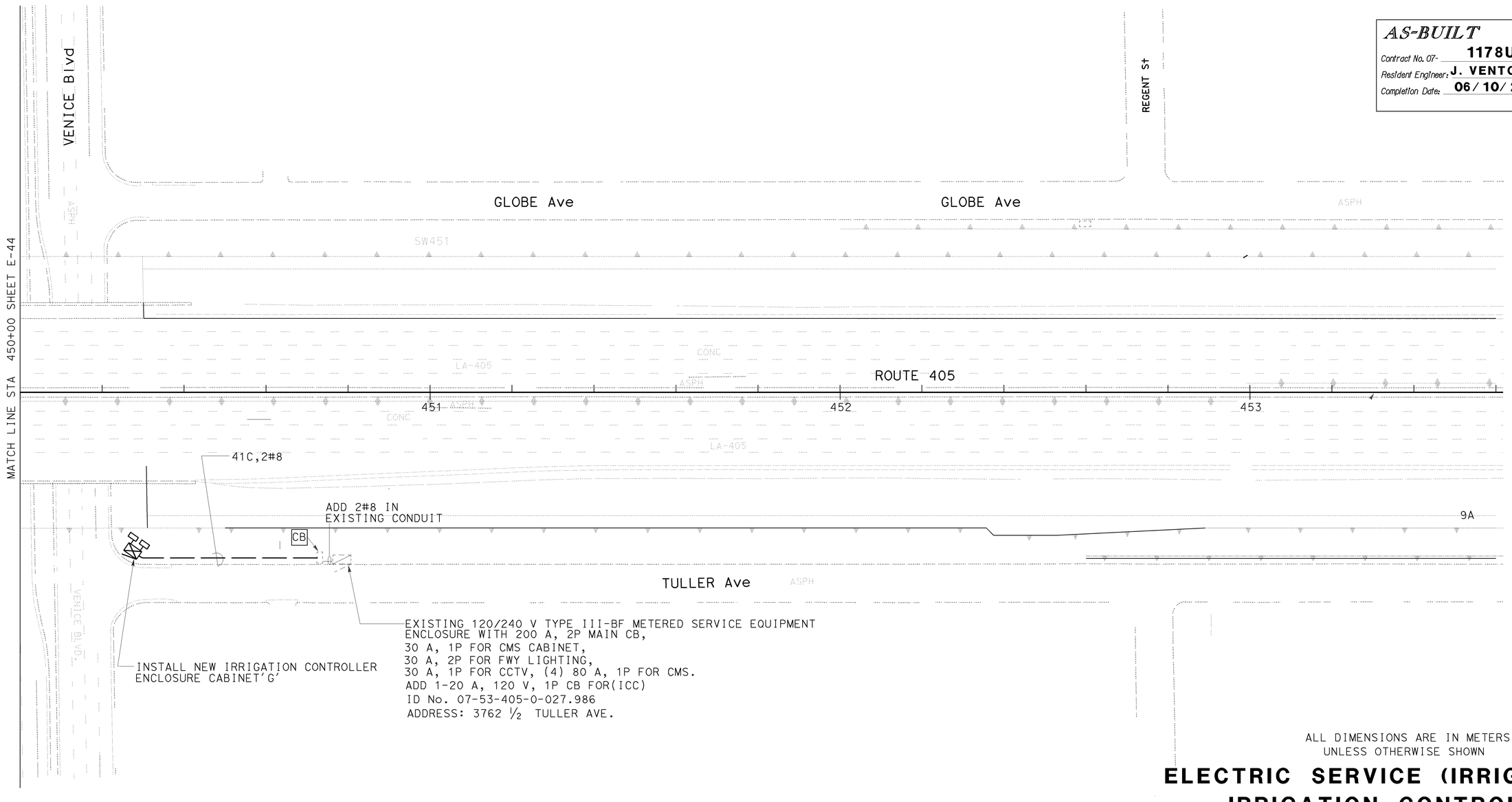
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010



NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

ELECTRIC SERVICE (IRRIGATION) IRRIGATION CONTROLLER ENCLOSURE CABINET

SCALE 1:500

E-45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
PROJECT ENGINEER
NOOSHIN ANSARI
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:45

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

USERNAME => s110796
DGN FILE => 71178uu045.dgn

CU 07382 EA 1178U1

NOTE:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1047	1697

Ohannes O Anserlian 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
O. ANSERLIAN
No. EI6682
Exp. 06/30/06
ELECTRICAL
STATE OF CALIFORNIA

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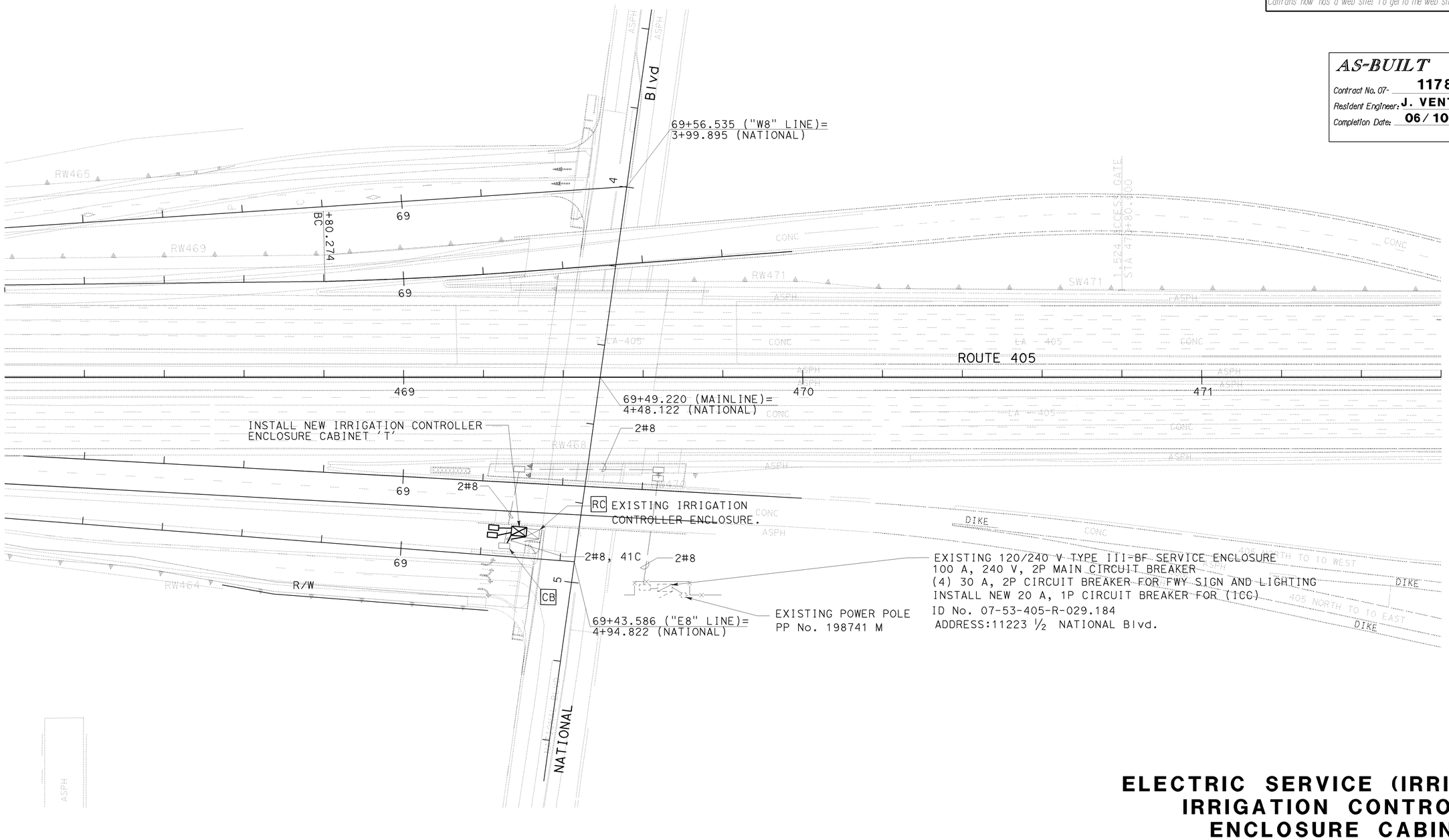
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



ELECTRIC SERVICE (IRRIGATION) IRRIGATION CONTROLLER ENCLOSURE CABINET

SCALE 1:500

E-46

FOR PROJECT NOTES AND LEGEND SEE SHEET E-1.
FOR WIRING DIAGRAMS SEE SHEET E-28.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DATE | REVISED BY | DATE REVISED

CALCULATED/ DESIGNED BY | CHECKED BY

PROJECT ENGINEER
OHANNES ANSERLIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:45

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USERNAME => s110796
DGN FILE => 71178uu046.dgn

CU 07382

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1048	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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GENERAL NOTES (SHEETS E-47 TO E-104)

1. THE CONTRACTOR SHALL VERIFY PROPOSED CCTV POLE LOCATIONS WITH THE ENGINEER PRIOR TO PLACEMENT OF FOUNDATIONS.
2. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.
3. AT THE UNDERCROSSING BRIDGES, COMMUNICATION PULL BOXES OR SPLICE VAULTS SHALL BE PLACED AT APPROX. 15 m AWAY FROM APPROACH SLAB. SEE STRUCTURAL PLANS FOR DETAIL.

NOTES: (CMS No. SD245 & CMS No. MA019)

1. CMS No. SD 245, CCTV CAMERA AND CMS No. MA019 SHALL BE INSTALLED AND TESTED FOR THE OPERATION PRIOR TO SOUNDWALL AND WIDENING CONSTRUCTION OF THE PROJECT. REFER TO SHEETS E-98, E-99, E-100 AND E-101.

PROJECT NOTES (SHEETS E-47 TO E-104)

1. TRENCH AND INSTALL CONDUIT IN ASPHALT OR CONCRETE. SEE SHEET E-76 FOR DETAIL.
2. TRENCH AND INSTALL CONDUIT IN SOIL. SEE SHEET E-76 FOR DETAIL.
3. JACK RIGID STEEL CONDUIT BENEATH ROADWAY. SEE SHEET E-84 FOR DETAIL.
4. INSTALL 3-78C INSIDE THE CONCRETE BARRIER. SEE STRUCTURAL PLANS FOR DETAIL.
5. INSTALL CONDUIT UNDER SOUNDWALL
6. COIL 20 m OF 6P22 CABLE FOR TSC, FUTURE TMS OR IRR CONTROLLER.

ABBREVIATIONS (NOT LISTED IN CALTRANS STANDARD PLANS, SHEETS E-94 TO E-151)

2SMFO B/O	2 SINGLE MODE FIBER OPTIC BREAKOUT CABLE
24SMFO	24 SINGLE MODE FIBER OPTIC CABLE
50P22	50 PAIR 22 AWG TWISTED PAIR CABLE CONDUCTORS
6P22	6 PAIR 22 AWG TWISTED PAIR CABLE CONDUCTORS
12P22	12 PAIR 22 AWG TWISTED PAIR CABLE CONDUCTORS
Ø	DIAMETER
B/O	BREAKOUT CABLE
CB	CIRCUIT BREAKER
CCR	CAMERA CONTROL RECEIVER
CCT	CAMERA CONTROL TRANSMITTER
CCTV	CLOSED CIRCUIT TELEVISION
CHAN #	CHANNEL NUMBER
CMS	CHANGEABLE MESSAGE SIGN
DEMARC	DEMARCATION
DEMUX	DEMULTIPLEXER
DIST	DISTRIBUTION
DWP	DEPARTMENT OF WATER & POWER
FDU	FIBER DISTRIBUTION UNIT
FC	FLOOD CHANNEL
FDF	FIBER DISTRIBUTION FRAME
FLEX	FLEXIBLE
F/O OR FO	FIBER OPTIC
FRE	FIBERGLASS REINFORCED EPOXY
INTRFCE	INTERFACE
IRR	IRRIGATION
MUX	MULTIPLEXER
PDA	POWER DISTRIBUTION ASSEMBLY
RX	RECEIVER
SCE	SOUTHERN CALIFORNIA EDISON
TELCO	TELEPHONE COMPANY
TMC	TRANSPORTATION MANAGEMENT CENTER
TMS	TRAFFIC MONITORING STATION
TP	TWISTED PAIR
TS	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONTROLLER
TX	TRANSMITTER
VDX	VIDEO DEMULTIPLEXER
VMX	VIDEO MULTIPLEXER
VR	SINGLE VIDEO RECEIVER
VSM	VIDEO SWITCH MATRIX
VX	SINGLE VIDEO TRANSMITTER
#X	X AWG CONDUCTOR, ie #10 MEANS #10 AWG CONDUCTOR
YP	Y PAIRS OF CONDUCTORS, ie 2P MEANS 2 PAIRS

LEGEND (NOT LISTED IN CALTRANS STANDARD PLANS, SHEETS E-94 TO E-151)

- CCTV CAMERA
- SPLICE VAULT
- EXISTING SPLICE VAULT
- FIBER OPTIC JUMPER
- COMMUNICATIONS PULL BOX
- DELIMITER FOR PROJECT NOTES — EXAMPLE: 1 11 C 1 12
- EXISTING CCTV DATA CABLE NODE CABINET
- EXISTING RMS TMS CMS CABINET
- TYPE 334-TV CABINET
- EXISTING TELEPHONE BRIDGE
- TELEPHONE BRIDGE
- FIBER OPTIC CABLE
- COAXIAL CABLE
- EXISTING ELECTRICAL CONDUIT

TABLE 1 - CCTV CONTROL CABLE		
CONDUCTOR TYPE	FUNCTION	QUANTITY
9P18 AWG CABLE	PAN/TILT CONTROL CABLE	1
12P18 AWG CABLE	CAMERA CONTROL CABLE	1
RG-6A/U COAX CABLE	CAMERA VIDEO INTERFACE CABLE	1

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

CCTV AND COMMUNICATION SYSTEM
(MODIFY)
(LEGEND AND NOTES)

E-47

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	HIEU LUU	JACQUELINE TAN
CHECKED BY		

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

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USERNAME => s110796
DGN FILE => 71178uu094.dgn

CU 07223 EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1049	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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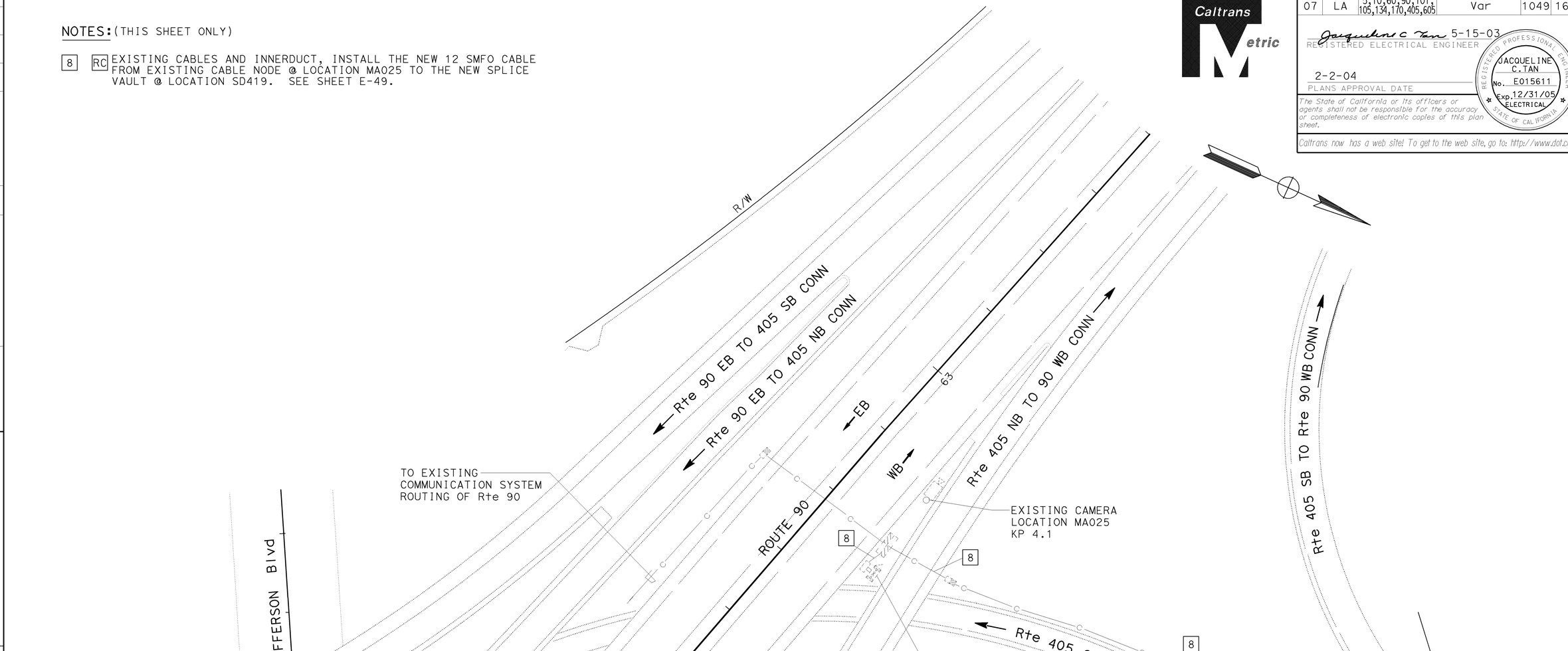
NOTES: (THIS SHEET ONLY)

8 RC EXISTING CABLES AND INNERDUCT, INSTALL THE NEW 12 SMFO CABLE FROM EXISTING CABLE NODE @ LOCATION MA025 TO THE NEW SPLICE VAULT @ LOCATION SD419. SEE SHEET E-49.



MATCH LINE - SEE SHEET E-49

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

COMMUNICATION SYSTEM ROUTING (MODIFY)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

E-48

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT
PROJECT ENGINEER: HIEU LUU
CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN
DATE REVISED | REVISED BY

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:47

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USERNAME => s110796
DGN FILE => 71178uu095.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1050	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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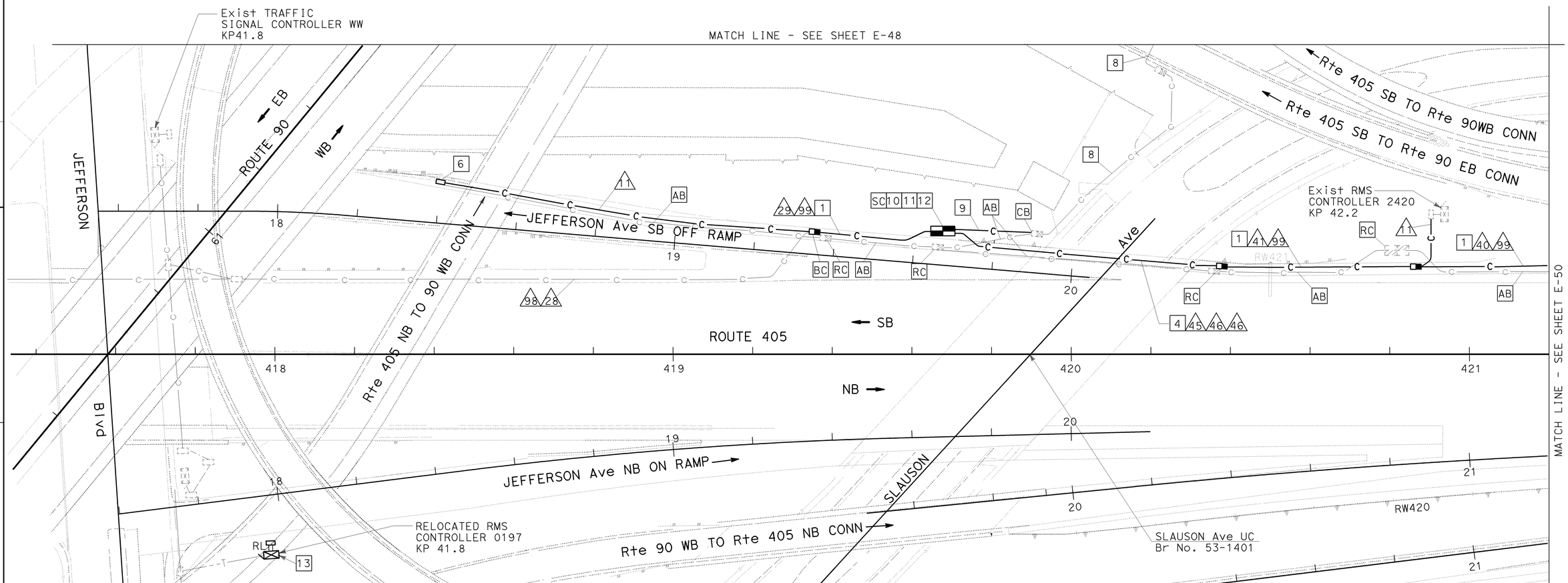
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN																		
		11	28			29			40			41			98	99	45			46
75P22 CABLE	VOICE/DATA		1(E)			1			1			1					1			
6P22 CABLE	VOICE/DATA	1	4(E)			4(E),1						1								
48SMFO CABLE	VIDEO/DATA				1(E)			1			1			1						1
24SMFO CABLE	VIDEO/DATA				1(E)			1			1			1						1
12SMFO CABLE	VIDEO DISTRIBUTION			1(E)			1			1			1						1	
INNERDUCT(SIZE 32)				1(E)	1(E)		1	1		1	1		1	1					1	1
CONDUIT SIZE		53	103(E)			103			103			103			103(E)	103	78			78

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS



NOTES: (THIS SHEET ONLY)

8 RC EXISTING CABLES AND INNERDUCT, INSTALL NEW 12SMFO CABLE IN EXISTING CONDUIT.

9 103C, 12SMFO

10 IDENTIFY ALL EXIST TWISTED PAIR SPLICES. INSTALL NEW TWISTED PAIR SPLICE CLOSURES. SC THE NEW 75P22 CABLES PER CURRENT CONFIGURATION.

11 IDENTIFY ALL EXIST FIBER OPTIC SPLICES. INSTALL NEW FIBER OPTIC SPLICE CLOSURES. SC THE NEW FIBER OPTIC CABLES PER CURRENT CONFIGURATION.

12 SC 12SMFO CABLE (FROM CABLE NODE OF ROUTE 90) WITH 24SMFO CABLE (ROUTE 405) PER CURRENT CONFIGURATION.

13 FOR REFERENCE ONLY. SEE ELECTRICAL SHEET E-30 FOR DETAILS.

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

COMMUNICATION SYSTEM ROUTING (MODIFY)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

E-49

DATE | REVISED BY | DATE REVISED
CALCULATED/DESIGNED BY: HIEU LUU | JACQUELINE TAN
CHECKED BY

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu096.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:48

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1051	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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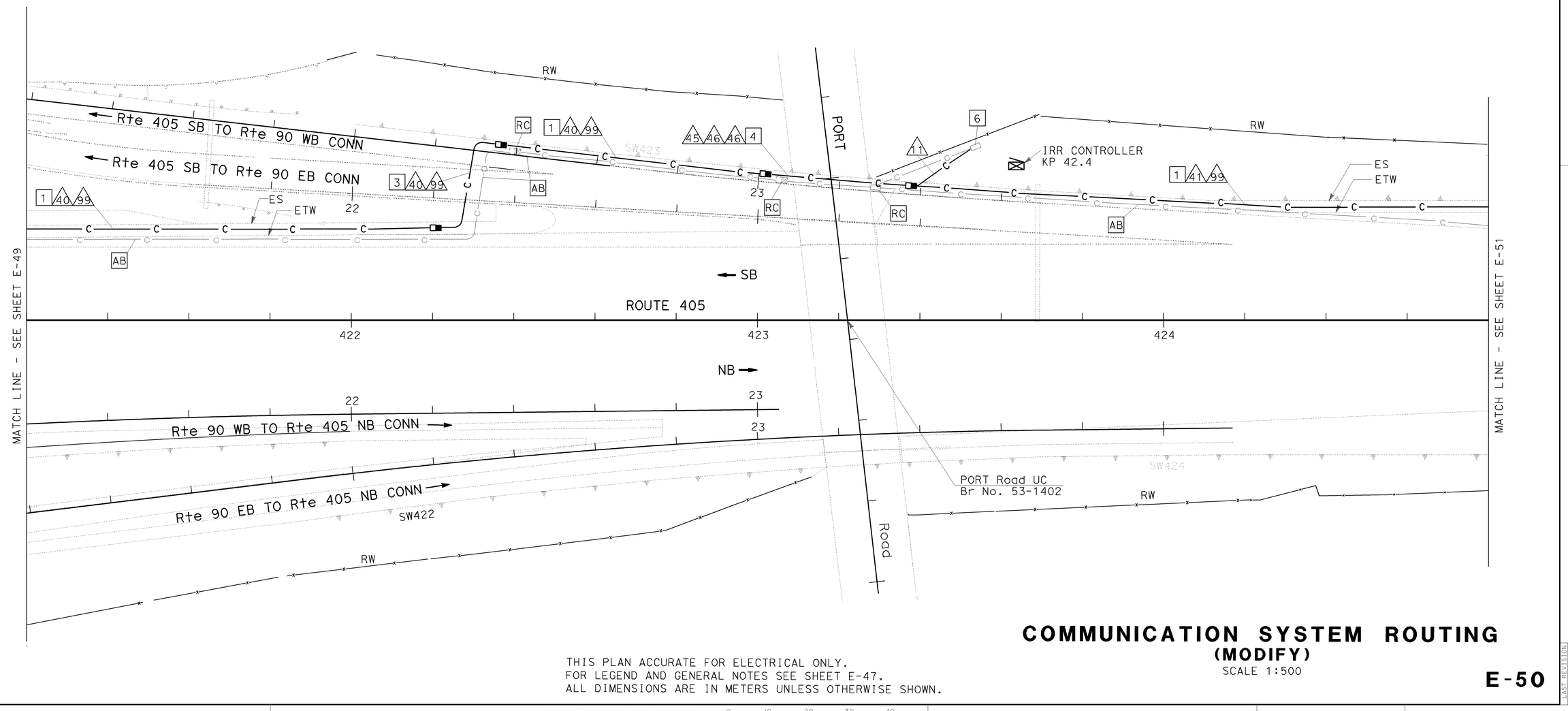
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)													
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN											
		11	40			41			99	45			46
75P22 CABLE	VOICE/DATA		1			1				1			
6P22 CABLE	VOICE/DATA	1				1							
48SMFO CABLE	VIDEO/DATA				1			1				1	
24SMFO CABLE	VIDEO/DATA				1			1				1	
12SMFO CABLE	VIDEO DISTRIBUTION			1			1				1		
INNERDUCT(SIZE 32)				1	1		1	1			1	1	
CONDUIT SIZE		53	103			103			103	78			78

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS

NOTES: (THIS SHEET ONLY)

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE SHEET 1051A



COMMUNICATION SYSTEM ROUTING (MODIFY)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

E-50

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	HIEU LUU	JACQUELINE TAN
CHECKED BY		

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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ITS DEVELOPMENT

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:48

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USERNAME => s110796
DGN FILE => 71178uu097.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1052	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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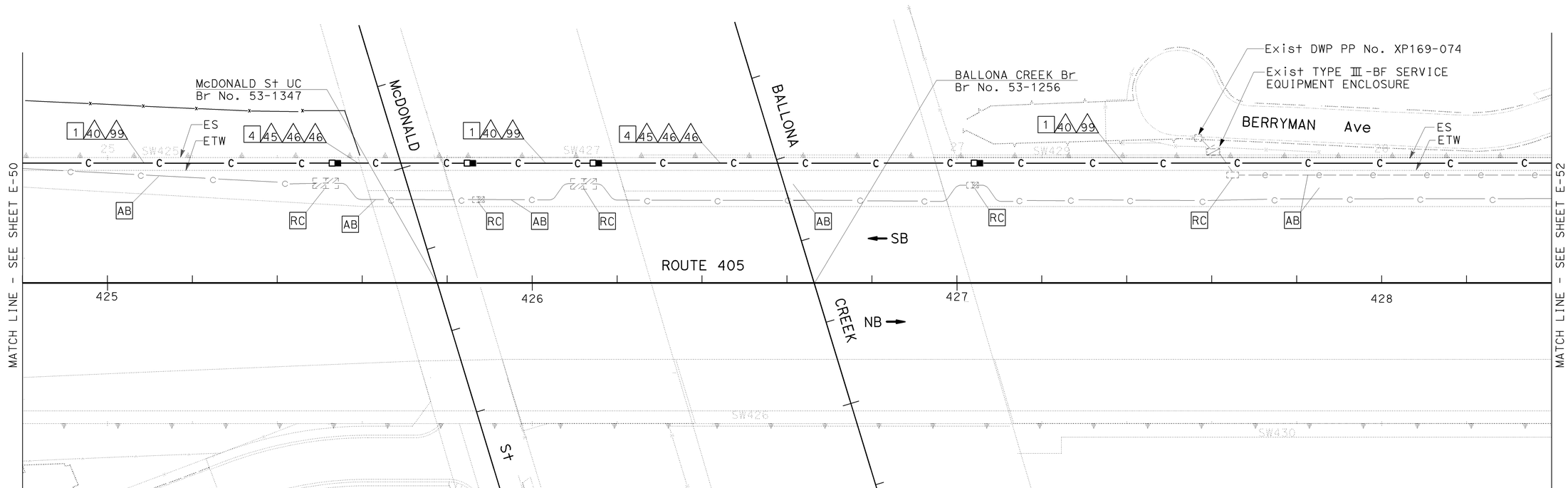
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN											
		11	40			41			99	45			46
75P22 CABLE	VOICE/DATA		1			1				1			
6P22 CABLE	VOICE/DATA	1				1							
48SMFO CABLE	VIDEO/DATA				1			1				1	
24SMFO CABLE	VIDEO/DATA				1			1				1	
12SMFO CABLE	VIDEO DISTRIBUTION			1			1				1		
INNERDUCT(SIZE 32)				1	1		1	1			1	1	
CONDUIT SIZE		53	103			103			103	78			78

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS



THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-94.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING
(MODIFY)
SCALE 1:500

E-51

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	HIEU LUU	
CHECKED BY	JACQUELINE TAN	

PROJECT ENGINEER
HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:48

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu098.dgn

CU 07223

EA 1178U1

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		△40				△99
75P22 CABLE	VOICE/DATA	1				
6P22 CABLE	VOICE/DATA					
48SMFO CABLE	VIDEO/DATA			1		
24SMFO CABLE	VIDEO/DATA			1		
12SMFO CABLE	VIDEO DISTRIBUTION		1			
INNERDUCT(SIZE 32)			1	1		
CONDUIT SIZE			103			103

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS

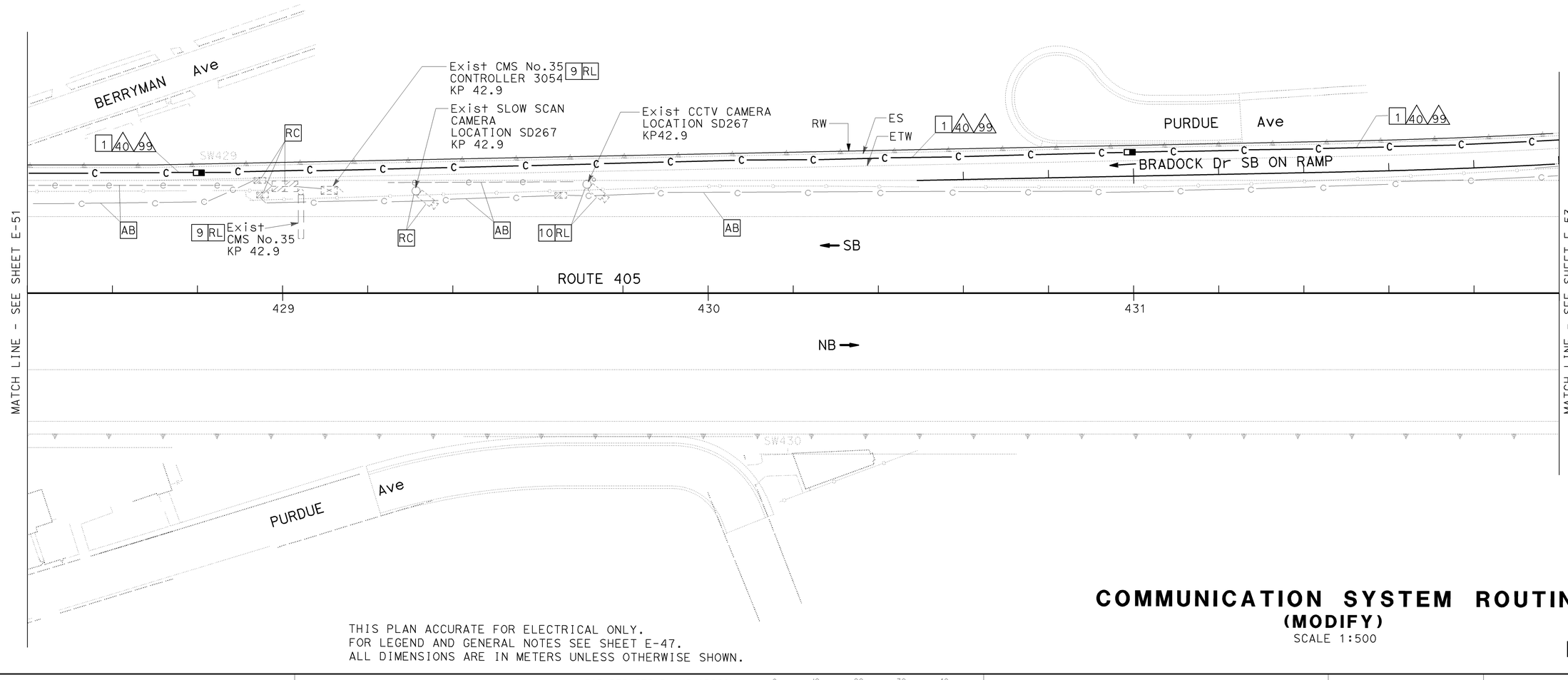
GENERAL NOTE:(THIS SHEET ONLY)

1. CONTRACTOR SHALL PROTECT THE EXISTING CMS No. 35, CONTROLLER CABINET AND ASSOCIATE ALL POWER AND COMMUNICATION CONDUITS DURING STAGE CONSTRUCTION 1. REFER TO STAGE CONSTRUCTION PLANS.

NOTES:(THIS SHEET ONLY)

[9] RELOCATE Exist CMS No. 35 SIGN PANEL, CONTROLLER CABINET TO THE STA 447+60. SEE SHEET E-57.

[10] RELOCATE Exist CCTV CAMERA AND THE POLE TO THE STA 433+30. SEE SHEET E-53.



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FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING
(MODIFY)
SCALE 1:500

E-52

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1053	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
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- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu099.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:48

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1054	1697

Caltrans Metric

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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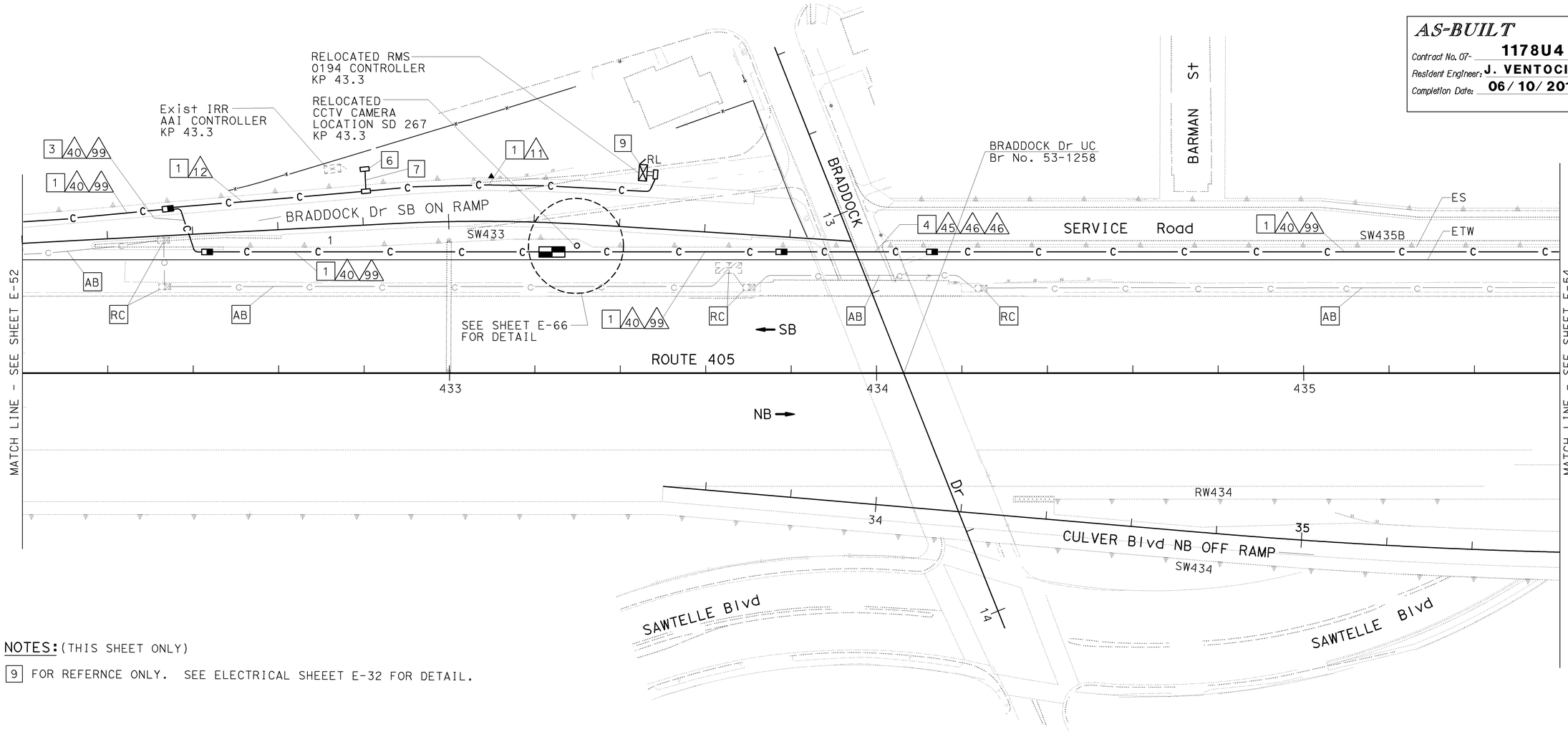
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)														
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN												
		11	12	40			41			99	45			46
75P22 CABLE	VOICE/DATA			1			1				1			
6P22 CABLE	VOICE/DATA	1	2				1							
48SMFO CABLE	VIDEO/DATA					1			1				1	
24SMFO CABLE	VIDEO/DATA					1			1				1	
12SMFO CABLE	VIDEO DISTRIBUTION				1			1				1		
INNERDUCT(SIZE 32)					1	1		1	1			1	1	
CONDUIT SIZE		53	53	103			103			103	78			78

(E) EXISTING CONDUIT OR CONDUCTORS
ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.



AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

NOTES: (THIS SHEET ONLY)

9 FOR REFERNCE ONLY. SEE ELECTRICAL SHEEET E-32 FOR DETAIL.

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FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
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COMMUNICATION SYSTEM ROUTING
(MODIFY)
SCALE 1:500

E-53

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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ITS DEVELOPMENT
PROJECT ENGINEER: HIEU LUU
CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN
DATE REVISED
REVISED BY
DATE

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu100.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:48

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1055	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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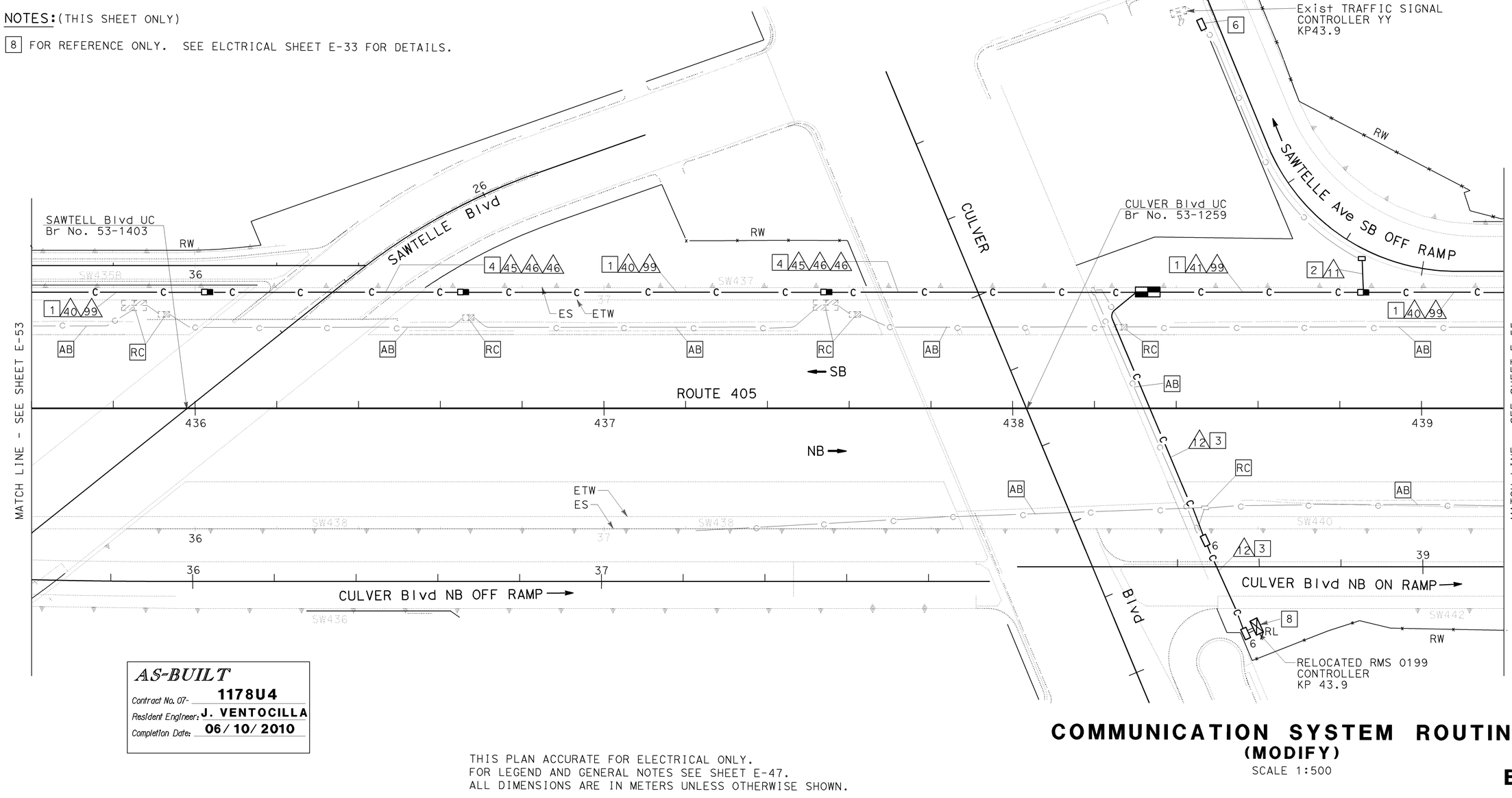
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN												
		11	12	40			41			99	45			46
75P22 CABLE	VOICE/DATA			1			1				1			
6P22 CABLE	VOICE/DATA	1	2				1							
48SMFO CABLE	VIDEO/DATA					1			1				1	
24SMFO CABLE	VIDEO/DATA					1			1				1	
12SMFO CABLE	VIDEO DISTRIBUTION				1			1				1		
INNERDUCT(SIZE 32)					1	1		1	1			1	1	
CONDUIT SIZE		53	103	103			103			103	78			78

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS

NOTES:(THIS SHEET ONLY)

8 FOR REFERENCE ONLY. SEE ELCTRICAL SHEET E-33 FOR DETAILS.



AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

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FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
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COMMUNICATION SYSTEM ROUTING
(MODIFY)

SCALE 1:500

E-54

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	HIEU LUU	JACQUELINE TAN
CHECKED BY		

PROJECT ENGINEER
HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED =>22-MAR-2011 TIME PLOTTED =>12:48

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USERNAME =>s110796
DGN FILE =>71178uu101.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1056	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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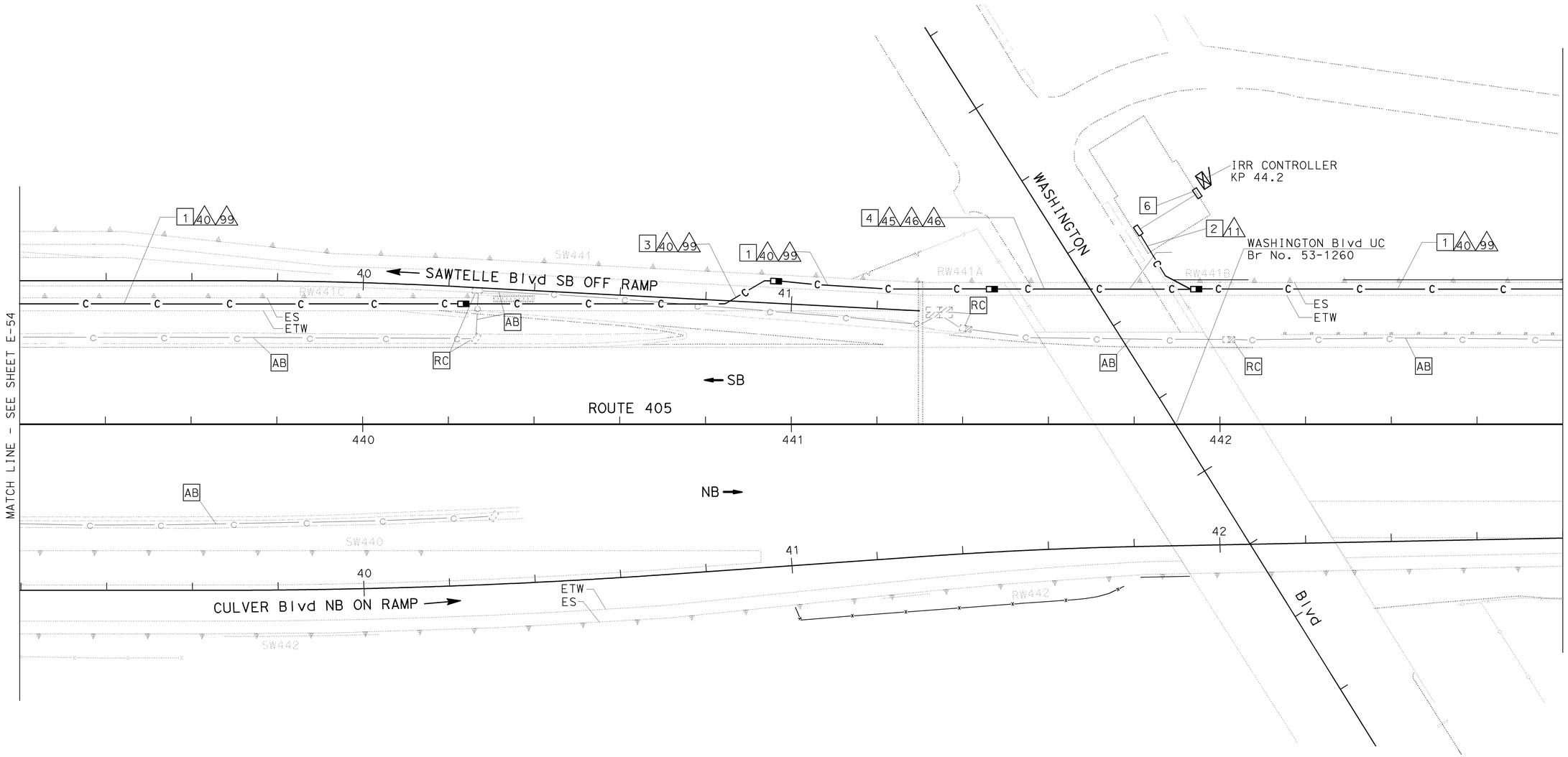
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN											
		11	40			41			99	45			46
75P22 CABLE	VOICE/DATA		1			1				1			
6P22 CABLE	VOICE/DATA	1				1							
48SMFO CABLE	VIDEO/DATA				1			1				1	
24SMFO CABLE	VIDEO/DATA				1			1				1	
12SMFO CABLE	VIDEO DISTRIBUTION			1			1				1		
INNERDUCT(SIZE 32)				1	1		1	1			1	1	
CONDUIT SIZE		53	103			103			103	78			78

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS



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FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
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COMMUNICATION SYSTEM ROUTING (MODIFY)

SCALE 1:500

E-55

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT
PROJECT ENGINEER: HIEU LUU

DATE	REVISED BY	DATE REVISED
CALCULATED/DESIGNED BY	HIEU LUU	
CHECKED BY	JACQUELINE TAN	

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:48

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu102.dgn

CU 07223

EA 1178U1

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)													
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN											
		11	40			41			99	45			46
75P22 CABLE	VOICE/DATA		1			1				1			
6P22 CABLE	VOICE/DATA	1				1							
48SMFO CABLE	VIDEO/DATA				1			1				1	
24SMFO CABLE	VIDEO/DATA				1			1				1	
12SMFO CABLE	VIDEO DISTRIBUTION			1			1				1		
INNERDUCT(SIZE 32)				1	1		1	1			1	1	
CONDUIT SIZE		53	103			103			103	78			78

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1057	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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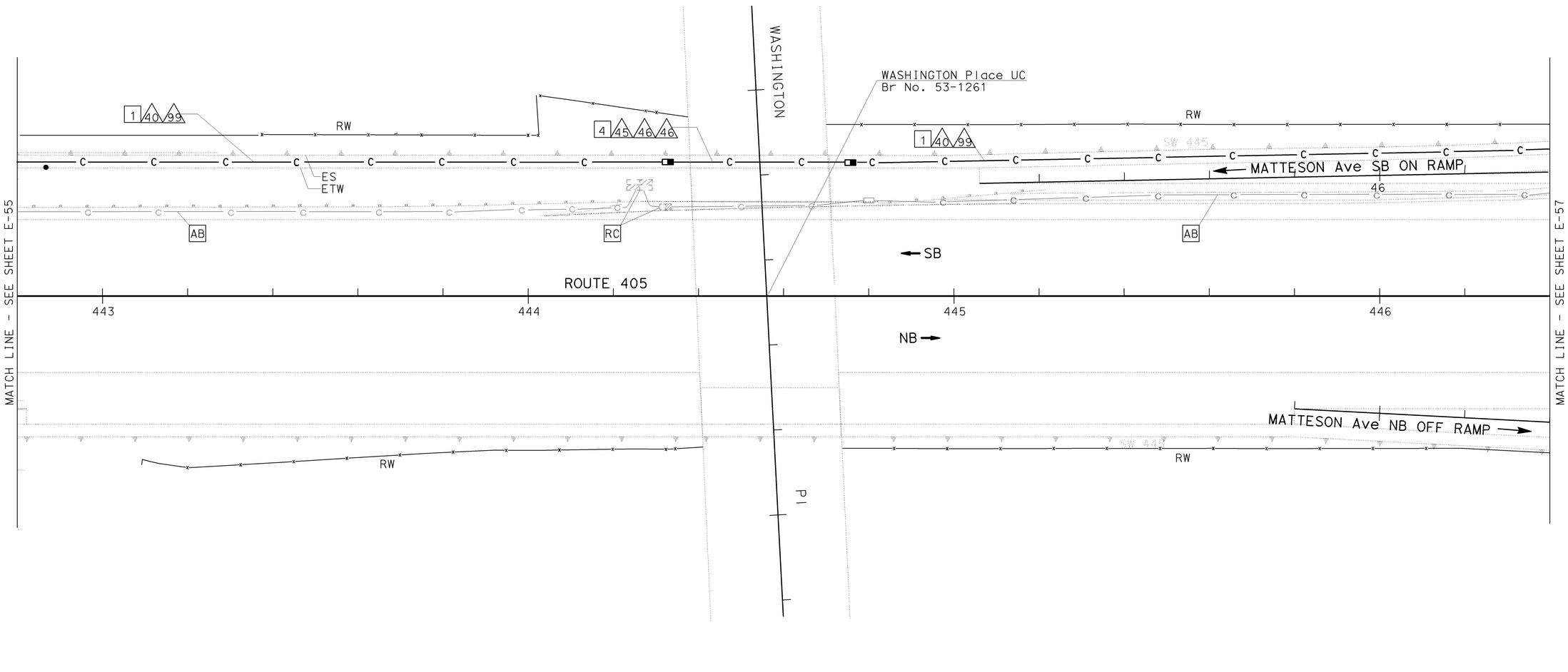

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING
(MODIFY)

SCALE 1:500

E-56

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	HIEU LUU	JACQUELINE TAN
CHECKED BY		

PROJECT ENGINEER
HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu103.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:48

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1058	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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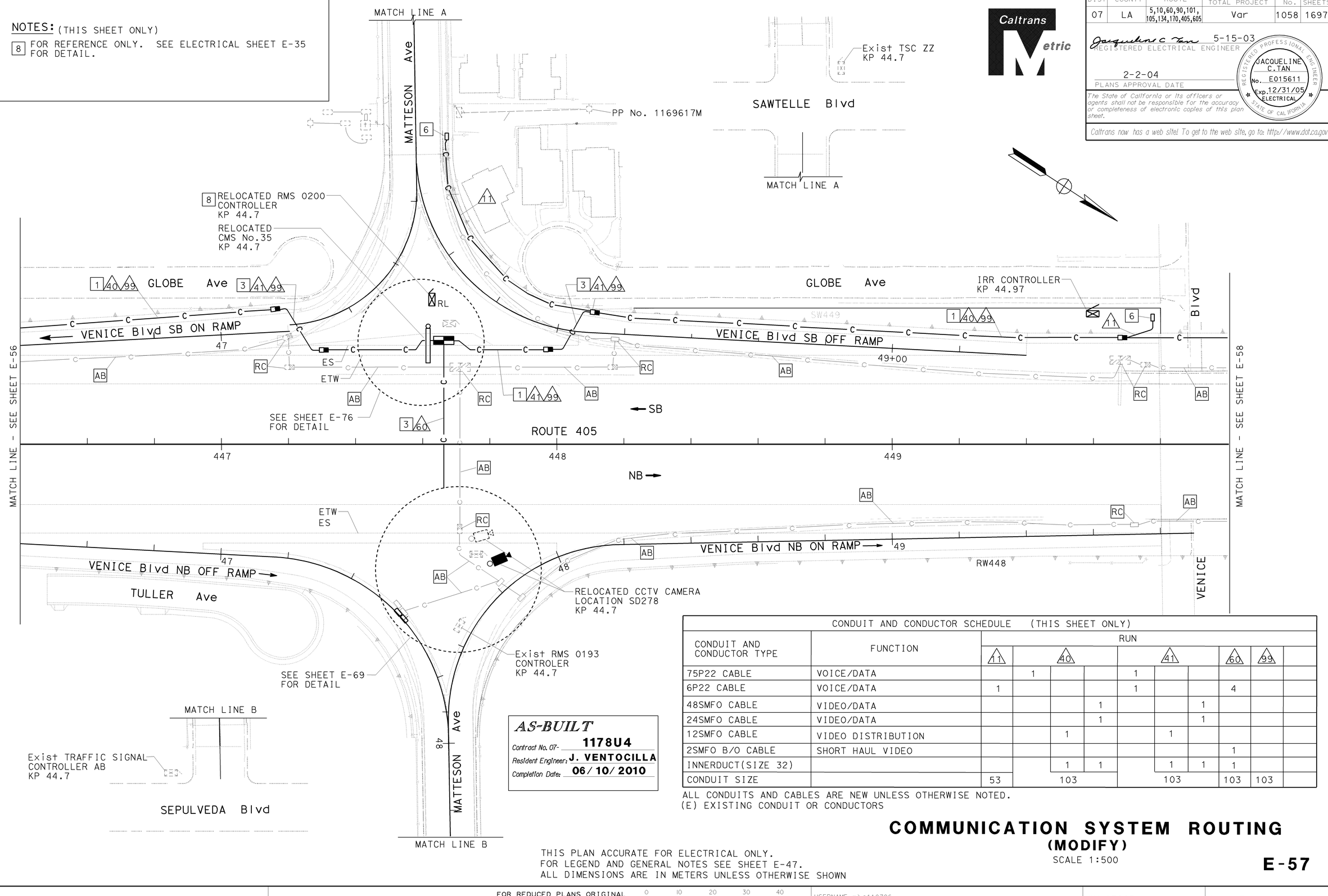
NOTES: (THIS SHEET ONLY)

8 FOR REFERENCE ONLY. SEE ELECTRICAL SHEET E-35 FOR DETAIL.



AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN									
		11	40			41			60	99	
75P22 CABLE	VOICE/DATA		1			1					
6P22 CABLE	VOICE/DATA	1				1			4		
48SMFO CABLE	VIDEO/DATA				1			1			
24SMFO CABLE	VIDEO/DATA				1			1			
12SMFO CABLE	VIDEO DISTRIBUTION			1			1				
2SMFO B/O CABLE	SHORT HAUL VIDEO								1		
INNERDUCT(SIZE 32)				1	1		1	1	1		
CONDUIT SIZE		53	103			103			103	103	

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS

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FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING (MODIFY)

SCALE 1:500

E-57

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	HIEU LUU	JACQUELINE TAN
CHECKED BY		

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu104.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:48

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1059	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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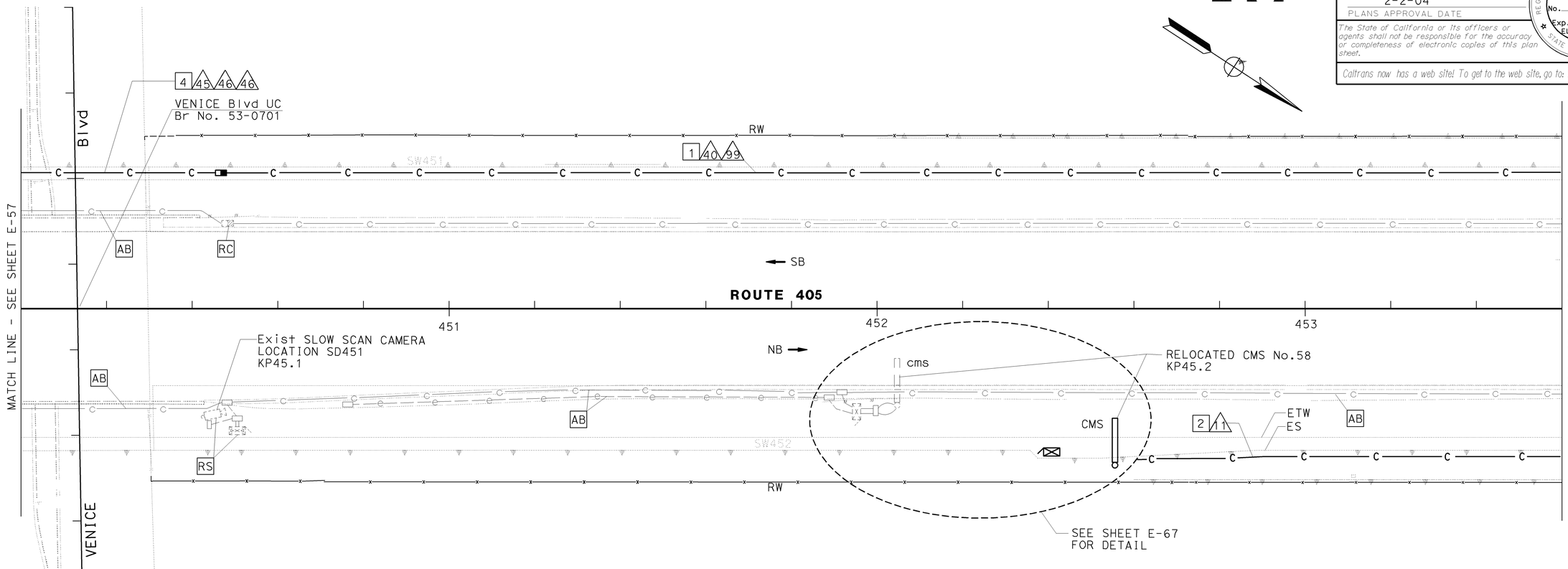
DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT



CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN								
		11	40			99	45			46
75P22 CABLE	VOICE/DATA		1				1			
6P22 CABLE	VOICE/DATA	1								
48SMFO CABLE	VIDEO/DATA				1				1	
24SMFO CABLE	VIDEO/DATA				1				1	
12SMFO CABLE	SHORT HAUL VIDEO			1				1		
INNERDUCT(SIZE 32)				1	1			1	1	
CONDUIT SIZE		53		103		103		78		78

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS

GENERAL NOTE: (THIS SHEET ONLY)

1. CONTRACTOR SHALL PROTECT THE EXISTING CMS No. 58, CONTROLLER CABINET AND ASSOCIATE ALL POWER AND COMMUNICATION CONDUITS DURING STAGE CONSTRUCTION 1. REFER TO STAGE CONSTRUCTION PLANS.

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

COMMUNICATION SYSTEM ROUTING
(MODIFY)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

E-58

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:48

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USERNAME => s110796
DGN FILE => 71178uu105.dgn

CU 07223

EA 1178U1

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		11	40			99
75P22 CABLE	VOICE/DATA		1			
6P22 CABLE	VOICE/DATA	1				
48SMFO CABLE	VIDEO/DATA				1	
24SMFO CABLE	VIDEO/DATA				1	
12SMFO CABLE	VIDEO DISTRIBUTION			1		
INNERDUCT(SIZE 32)				1	1	
CONDUIT SIZE		53	103			103

(E) EXISTING CONDUIT OR CONDUCTORS
ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.

AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1060	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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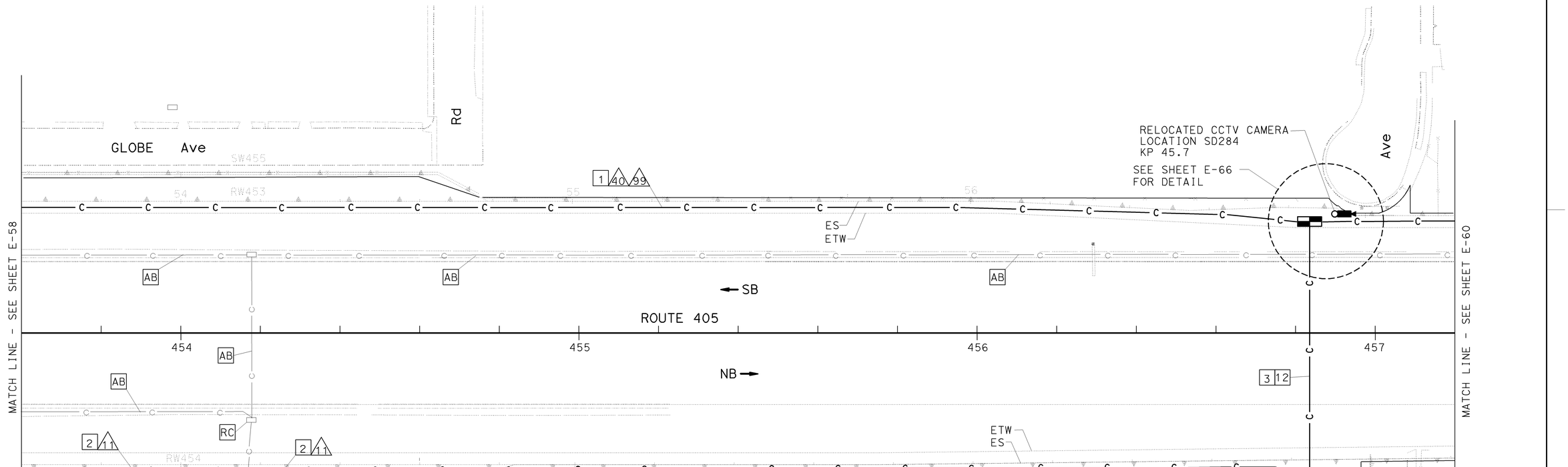

NOTES: (THIS SHEET ONLY)

11 53C, (2)6P22

12 103C, (3)6P22

13 FOR REFERNCE ONLY. SEE ELECTRICAL SHEET E-36 FOR DETAIL

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
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COMMUNICATION SYSTEM ROUTING
(MODIFY)

SCALE 1:500

E-59

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	HIEU LUU	
CHECKED BY	JACQUELINE TAN	

PROJECT ENGINEER
HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:48

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USERNAME => s110796
DGN FILE => 71178uu106.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1062	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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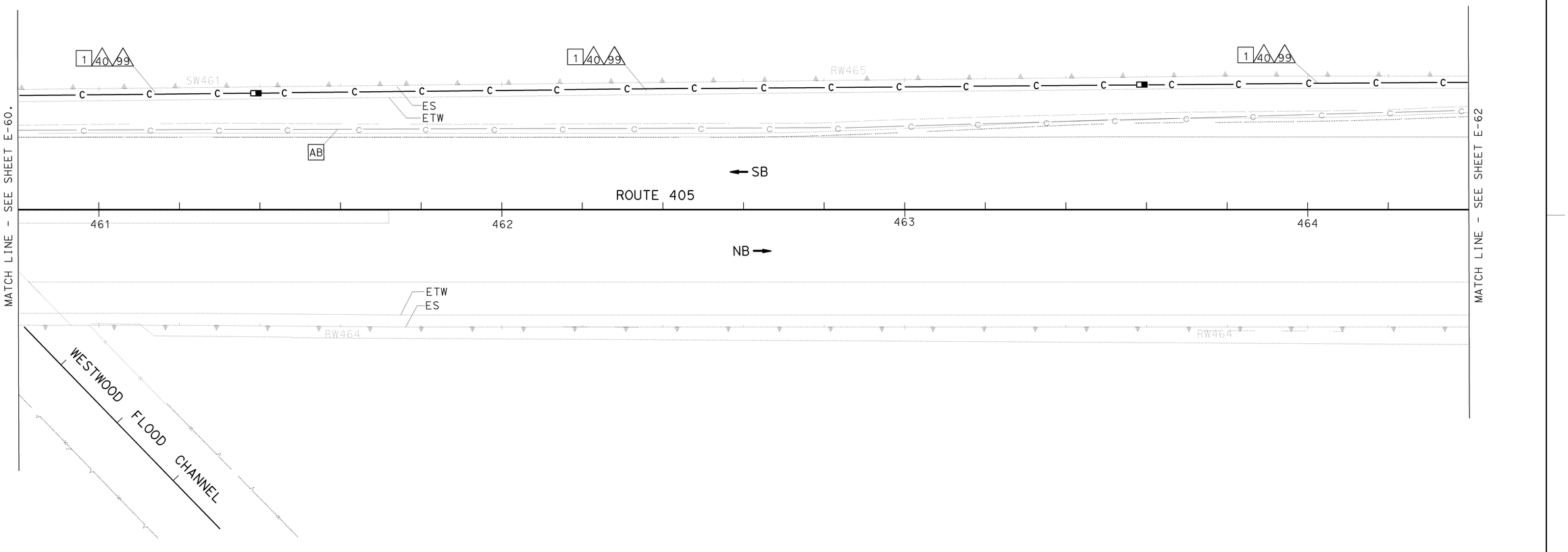
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

Caltrans Metric

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		11	40			99
75P22 CABLE	VOICE/DATA		1			
6P22 CABLE	VOICE/DATA	1				
48SMFO CABLE	VIDEO/DATA				1	
24SMFO CABLE	VIDEO/DATA				1	
12SMFO CABLE	VIDEO DISTRIBUTION			1		
INNERDUCT(SIZE 32)				1	1	
CONDUIT SIZE		53	103			103

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS



THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING
(MODIFY)

SCALE 1:500

E-61

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

PROJECT ENGINEER: HIEU LUU

DATE	REVISED BY	DATE REVISED
	HIEU LUU	JACQUELINE TAN
CALCULATED/ DESIGNED BY		
CHECKED BY		

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:48

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu108.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1063	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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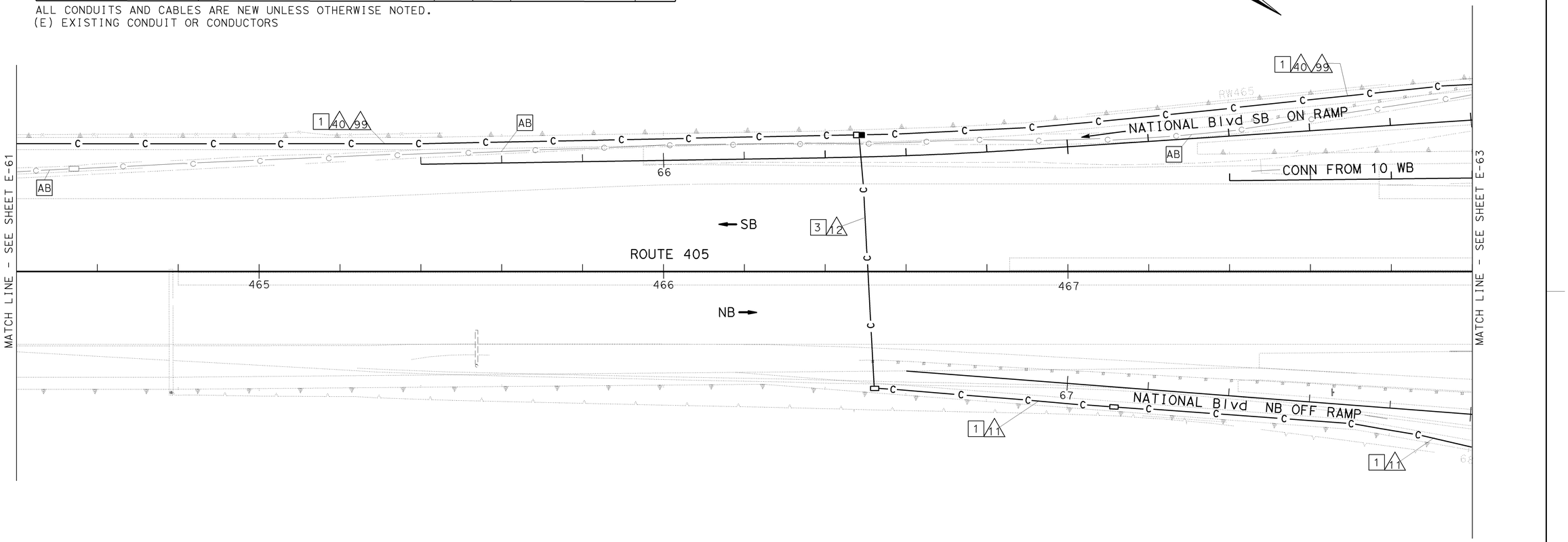
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)							
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN					
		11	12	40			99
75P22 CABLE	VOICE/DATA			1			
6P22 CABLE	VOICE/DATA	1	1				
48SMFO CABLE	VIDEO/DATA					1	
24SMFO CABLE	VIDEO/DATA					1	
12SMFO CABLE	VIDEO DISTRIBUTION				1		
INNERDUCT(SIZE 32)					1	1	
CONDUIT SIZE		53	103	103			103

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS



THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING (MODIFY)

SCALE 1:500

E-62

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	HIEU LUU	JACQUELINE TAN
CHECKED BY		

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu109.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:48

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1064	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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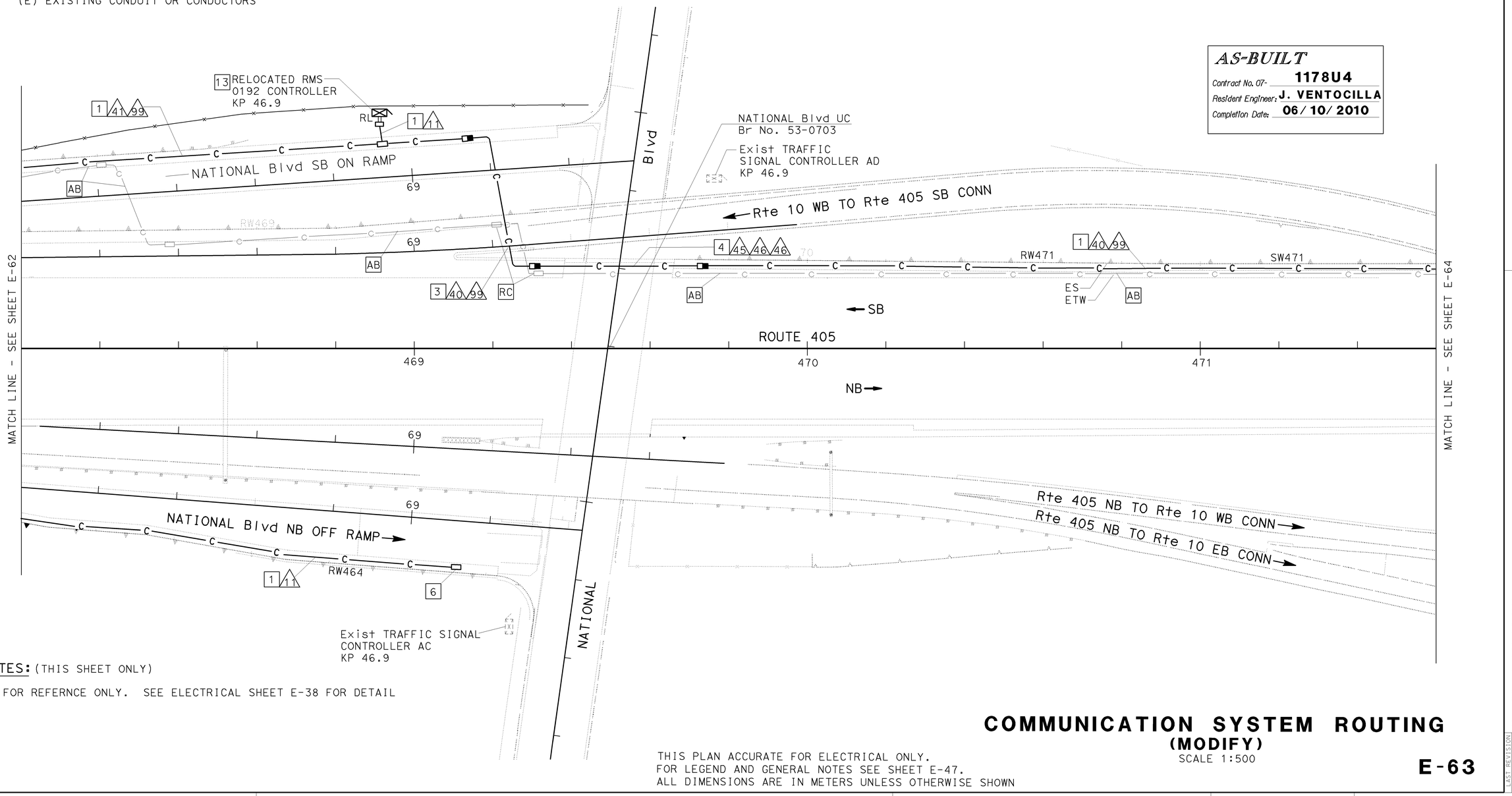
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)													
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN											
		11	40			42			99	45			46
75P22 CABLE	VOICE/DATA		1			1				1			
6P22 CABLE	VOICE/DATA	1				2							
48SMFO CABLE	VIDEO/DATA				1			1				1	
24SMFO CABLE	VIDEO/DATA				1			1				1	
12SMFO CABLE	VIDEO DISTRIBUTION			1			1				1		
INNERDUCT(SIZE 32)				1	1		1	1			1	1	
CONDUIT SIZE		53	103			103			103	78			78

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS

AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



NOTES: (THIS SHEET ONLY)

13 FOR REFERNCE ONLY. SEE ELECTRICAL SHEET E-38 FOR DETAIL

COMMUNICATION SYSTEM ROUTING (MODIFY)

SCALE 1:500

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

E-63

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT
PROJECT ENGINEER: HIEU LUU

DATE	REVISED BY	DATE REVISED
	HIEU LUU	JACQUELINE TAN
CALCULATED/ DESIGNED BY	CHECKED BY	

LAST REVISION 00-00-00 DATE PLOTTED = > 22-MAR-2011 TIME PLOTTED = > 12:48

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USERNAME = > s110796
DGN FILE = > 71178uu110.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1065	1697

Caltrans Metric

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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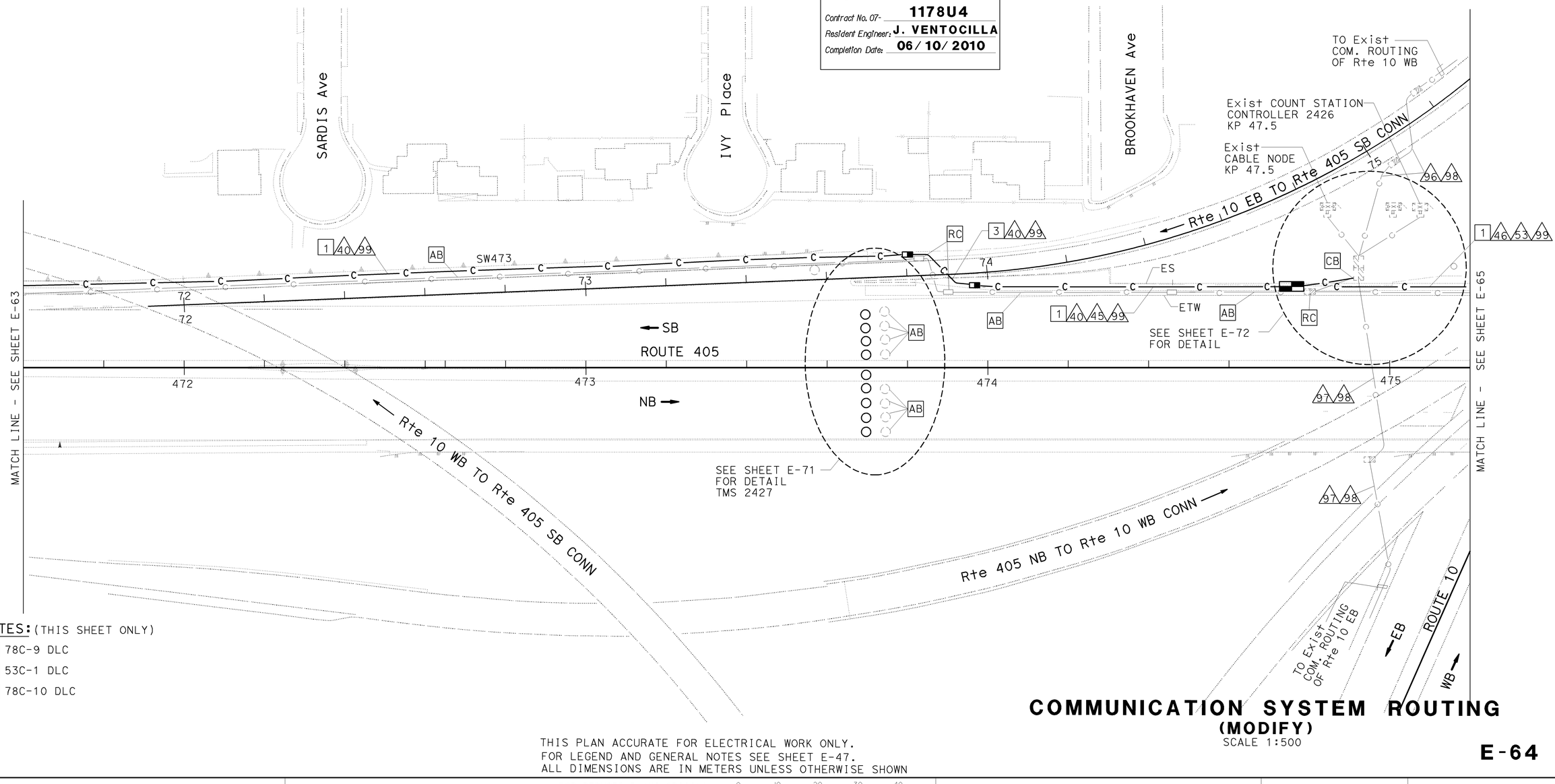
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN												
		11	40			45	46	53			96	97	98	99
75P22 CABLE	VOICE/DATA		1					1(E)						
6P22 CABLE	VOICE/DATA	1						1(E)						
48SMFO CABLE	VIDEO/DATA				1					1(E)		1(E)		
24SMFO CABLE	VIDEO/DATA				1									
12SMFO CABLE	VIDEO DISTRIBUTION			1					1(E)		1(E)			
DLC	DETECTOR LEAD CABLE					11	2							
INNERDUCT(SIZE 32)				1	1				1	1	1(E)	1(E)		
CONDUIT SIZE		53	103			78	53	103			103(E)	103(E)	103(E)	103

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010



NOTES: (THIS SHEET ONLY)
9 78C-9 DLC
10 53C-1 DLC
11 78C-10 DLC

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING (MODIFY)

SCALE 1:500

E-64

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN
PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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USERNAME => s110796
DGN FILE => 71178uu111.dgn

CU 07223

EA 1178U1

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)												
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN										
		11	46	53			54			98	99	
75P22 CABLE	VOICE/DATA			1(E)			1(E)					
6P22 CABLE	VOICE/DATA	1		1(E)			1(E)					
48SMFO CABLE	VIDEO/DATA					1(E)			1(E)			
12SMFO CABLE	VIDEO DISTRIBUTION				1(E)			1(E)				
DLC	DETECTOR LEAD CABLE		2									
INNERDUCT(SIZE 32)					1	1		1(E)	1(E)			
CONDUIT SIZE		53	53	103			103(E)			103(E)	103	

(E) EXISTING CONDUIT OR CONDUCTORS
ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1066	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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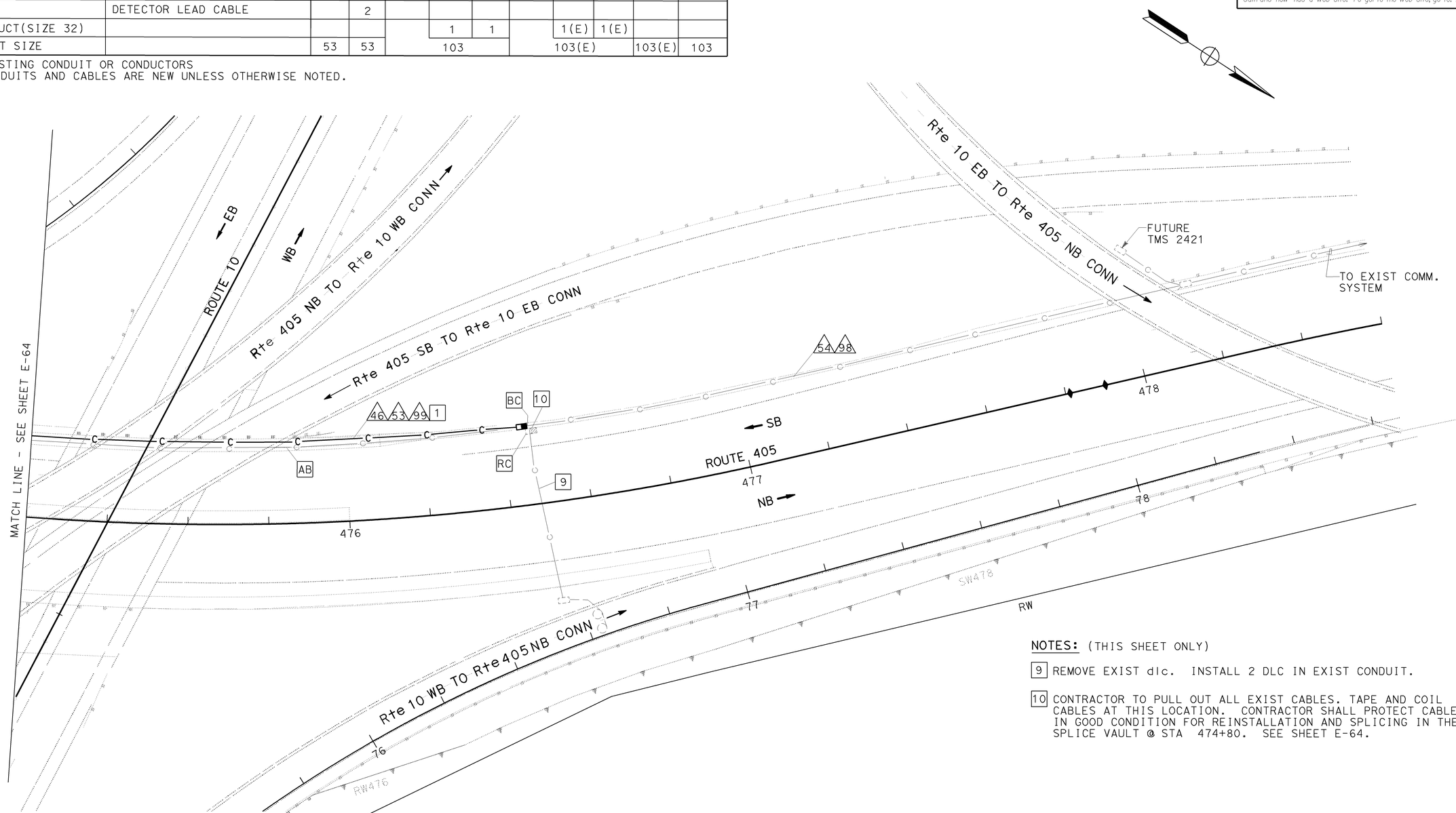

NOTES: (THIS SHEET ONLY)

9 REMOVE EXIST dlc. INSTALL 2 DLC IN EXIST CONDUIT.

10 CONTRACTOR TO PULL OUT ALL EXIST CABLES. TAPE AND COIL CABLES AT THIS LOCATION. CONTRACTOR SHALL PROTECT CABLES IN GOOD CONDITION FOR REINSTALLATION AND SPLICING IN THE NEW SPLICE VAULT @ STA 474+80. SEE SHEET E-64.

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING (MODIFY)

SCALE 1:500

E-65

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN
PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu112.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1067	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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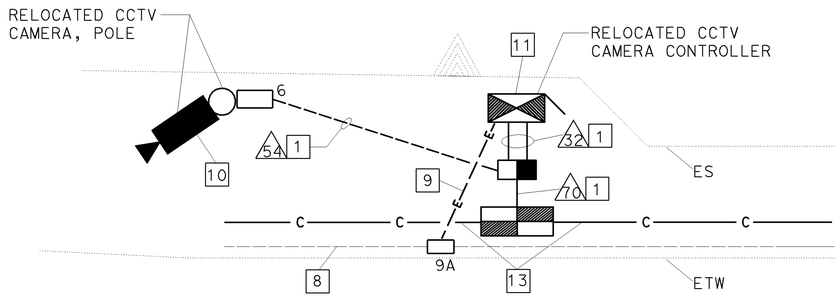
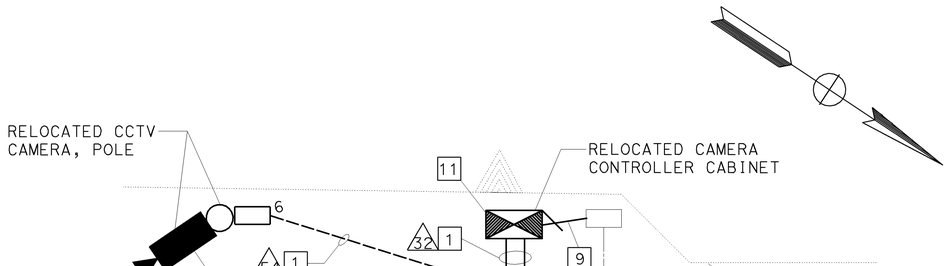


RELOCATE CCTV CAMERA SD267
KP 43.3
NO SCALE



RELOCATE CCTV CAMERA SD284
KP 45.7
NO SCALE

NOTES: (THIS SHEET ONLY)

8 ADD 2#6 TO LIGHTING CONDUIT. SEE SHEET E-6, E-7 (TRAFFIC DESIGN) FOR CONDUIT ROUTING.

9 53C, 2#6

10 INSTALL CCTV POLE. SEE SHEET E-90 FOR DETAIL

11 CONSTRUCT CONCRETE PAD PER SHEET E-83.

12 ADD 2#6 TO LOOP DETECTORS CONDUIT. SEE SHEET E-160 (TRAFFIC DESIGN) FOR CONDUIT ROUTING.

13 INCLUDED IN COMMUNICATION SYSTEM ROUTING

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUITS AND CONDUCTOR TYPE	FUNCTION	RUN				
		△32		△54	△70	
6P22 CABLE	VOICE/DATA				1	
2SMFO B/O CABLE	SHORT HAUL VIDEO		1			1
TABLE 1, E-1	CCTV WIRING	1		1		
INNERDUCT (SIZE 32)			1			1
CONDUIT SIZE		103	103	53	103	

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

RELOCATE CCTV CAMERA SD267
RELOCATE CCTV CAMERA SD284
SCALE 1:500

E-66

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT
PROJECT ENGINEER: HIEU LUU

DATE	REVISED BY	DATE REVISED
CALCULATED/DESIGNED BY	HIEU LUU	JACQUELINE TAN
CHECKED BY		

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu113.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:48

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1068	1697

Caltrans Metric

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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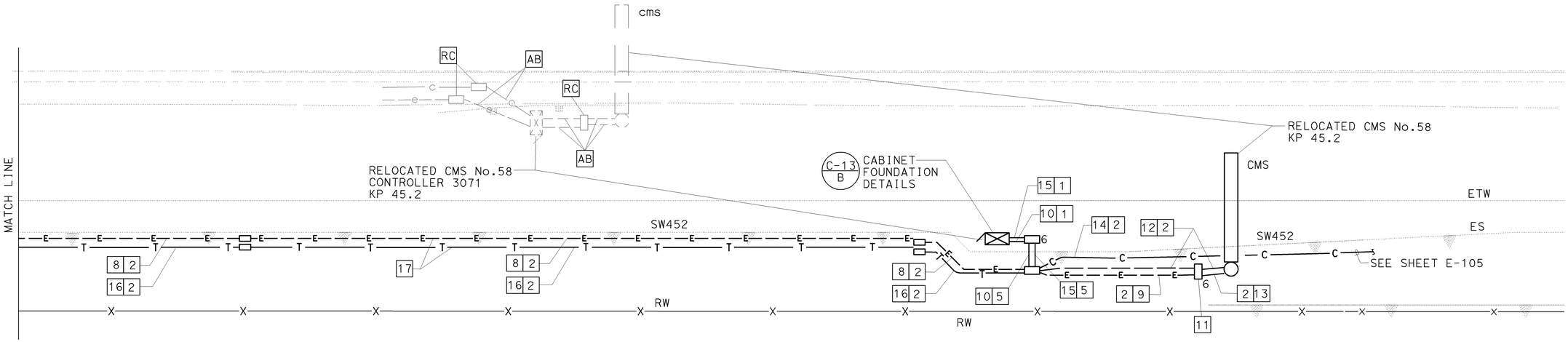
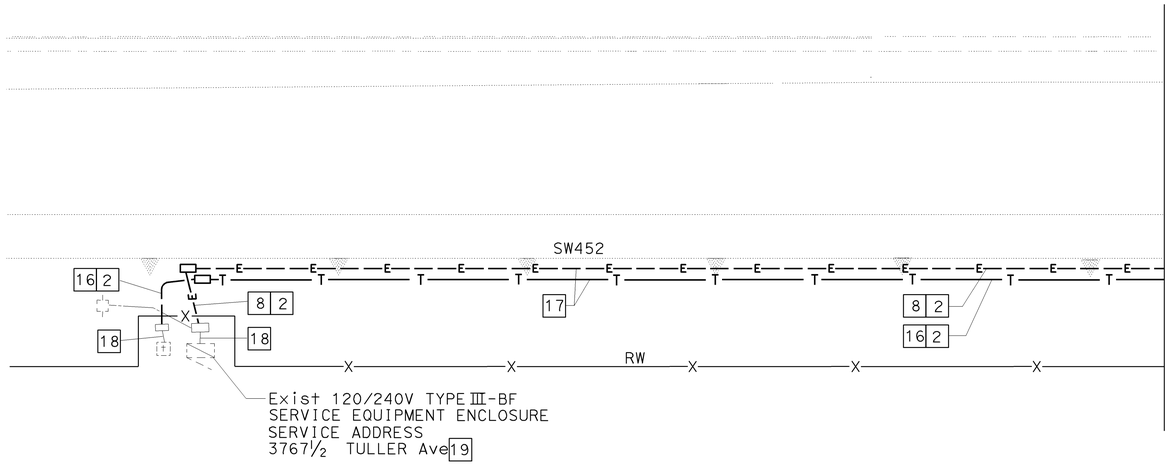
NOTES: (THIS SHEET ONLY)

8 78C, 3#4, 2#4
9 78C, 3#4
10 53C, 2#4
11 INSTALL GROUND ROD IN PULL BOX
12 78C, CMS CABLE (6P18, 24P18)
13 78C, 3#4, 1#4 GND
14 53C, 6P22
15 78C, 6P22, 4P18, CMS CABLE (6P18, 24P18)
16 53C, 4P18
17 INSTALL CONDUITS IN THE SAME TRENCH.
18 INSTALL NEW CONDUCTORS IN Exist CONDUIT.
19 RC Exist 4P, 80 A CIRCUIT BREAKER, INSTALL (1)2P, 30 A





THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.

SEE REVISION CHANGES IN SHEET 1068A

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

RELOCATE CMS No. 58

SCALE 1:200

E-67

DATE	REVISED BY	DATE REVISED
7/03	HIEU LUU	7/03

CALCULATED/DESIGNED BY: JACQUELINE TAN 1/04
CHECKED BY: HL

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED => 11-APR-2011 TIME PLOTTED => 14:44

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s111708
DGN FILE => 71178uu114.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1068A	1697

Caltrans Metric

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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2

NOTES: (THIS SHEET ONLY)

8 78C, 4#4, 2#4

9 78C, 4#4

10 53C, 2#4

11 BLANK

12 78C, CMS CABLE (6P18, 24P18)

13 78C, 4#4, 1#4 GND

14 53C, 6P22

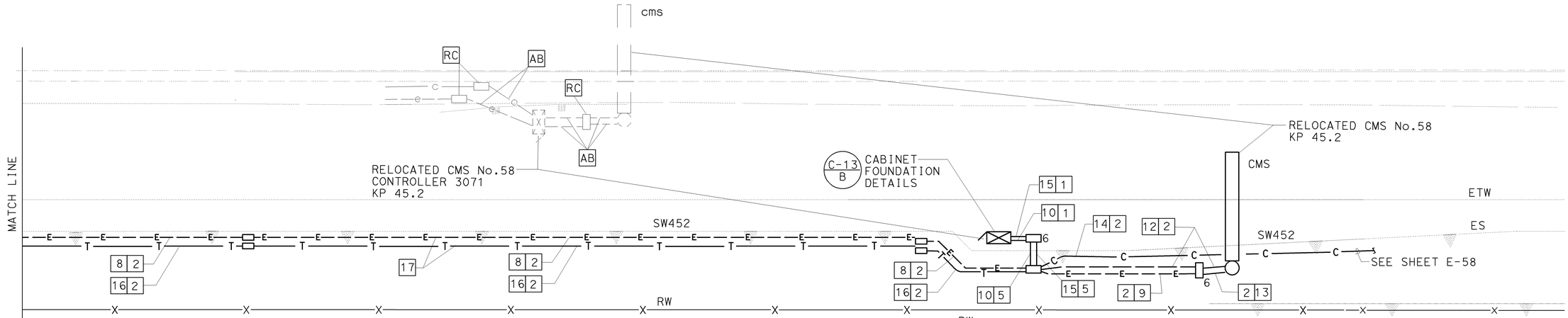
15 78C, 6P22, 4P18, STATE-FURNISHED CMS CABLE (6P18, 24P18)

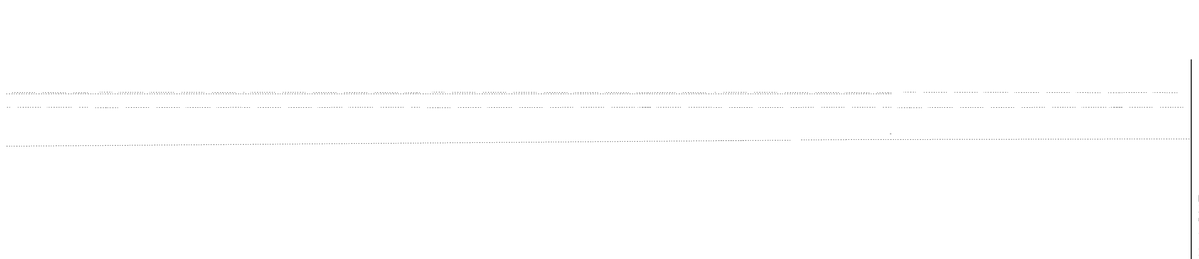
16 53C, 4P18

17 INSTALL CONDUITS IN THE SAME TRENCH.

18 INSTALL NEW CONDUCTORS IN Exist CONDUIT.

19 RC Exist 4P, 80 A CIRCUIT BREAKER, INSTALL (1)2P, 30 A





AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

2 REVISED PER ADDENDUM NO. 2 DATED MAY 14, 2004

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.

RELOCATE CMS No. 58

SCALE 1:200

E-67A

DATE	REVISED BY
7/03	HL
7/03	DATE REVISED 1/04
	HIEU LUU
	JACQUELINE TAN
CALCULATED/ DESIGNED BY	
CHECKED BY	

PROJECT ENGINEER
HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu114a.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:49

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1069	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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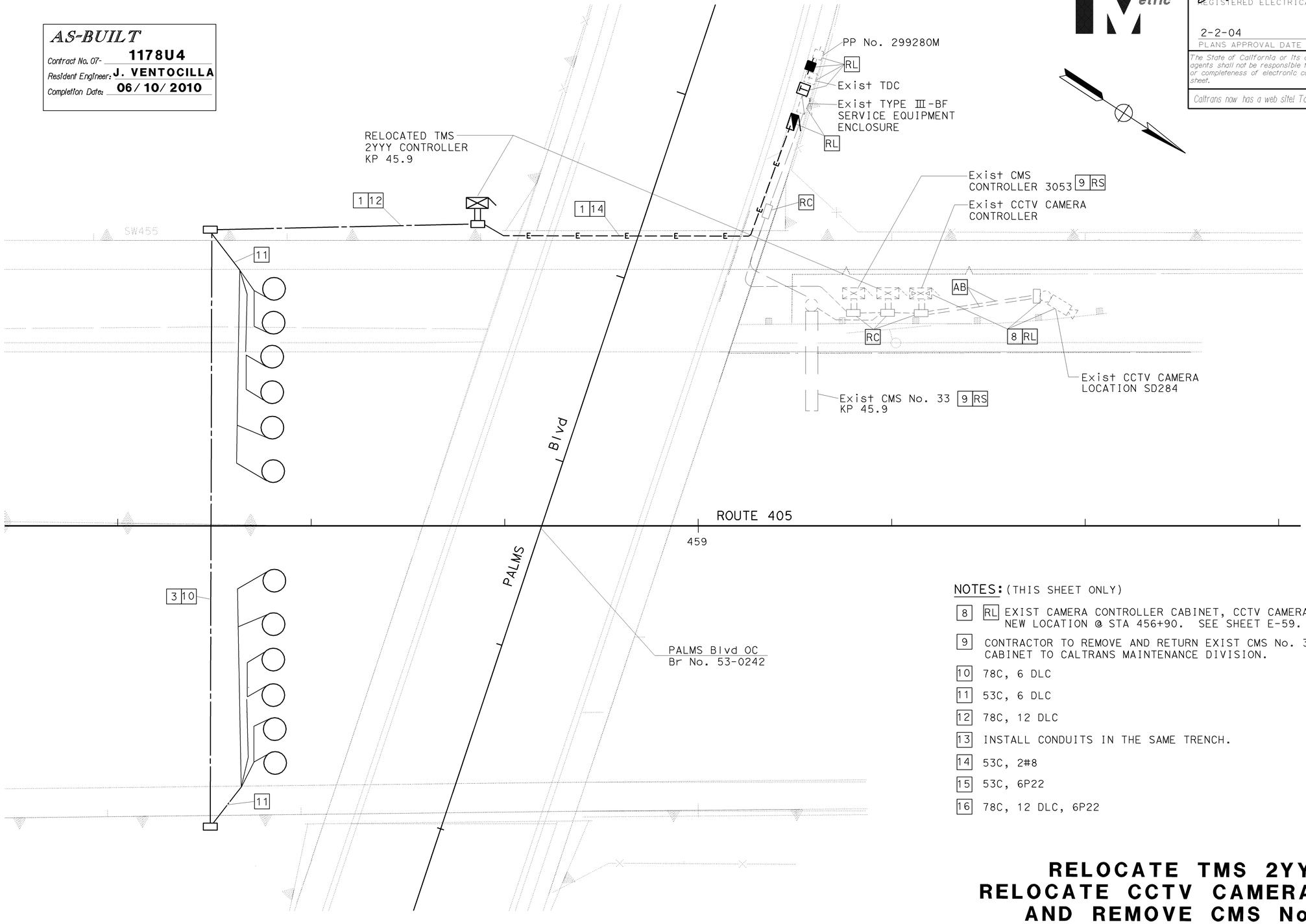
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



NOTES: (THIS SHEET ONLY)

8 RL EXIST CAMERA CONTROLLER CABINET, CCTV CAMERA AND POLE TO THE NEW LOCATION @ STA 456+90. SEE SHEET E-59.

9 CONTRACTOR TO REMOVE AND RETURN EXIST CMS No. 33 AND CONTROLLER CABINET TO CALTRANS MAINTENANCE DIVISION.

10 78C, 6 DLC

11 53C, 6 DLC

12 78C, 12 DLC

13 INSTALL CONDUITS IN THE SAME TRENCH.

14 53C, 2#8

15 53C, 6P22

16 78C, 12 DLC, 6P22

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RELOCATE TMS 2YYY, RELOCATE CCTV CAMERA SD284 AND REMOVE CMS No. 33

NO SCALE

E-68

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: HIEU LUU

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

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu115.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:49

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1070	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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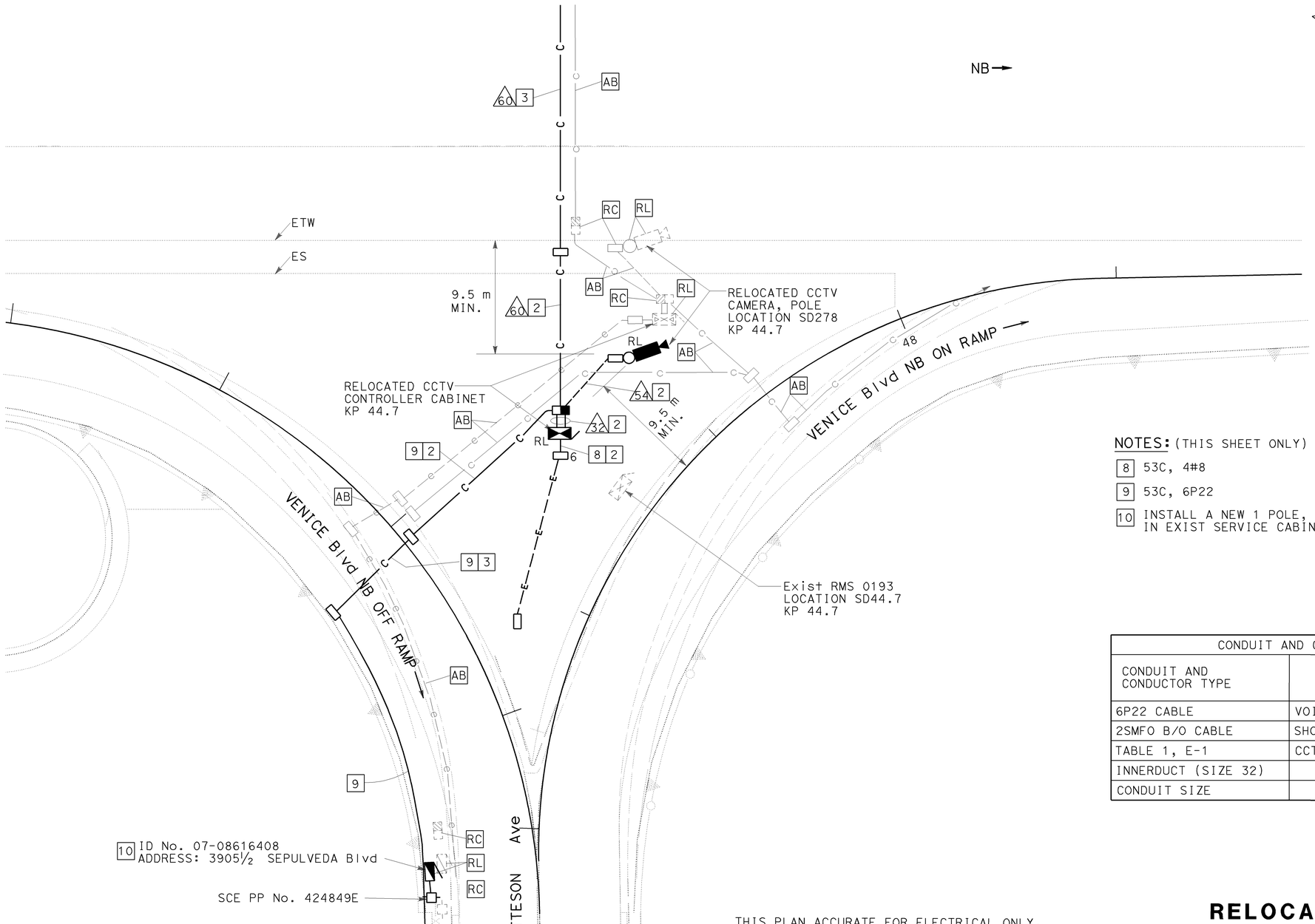
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



NOTES: (THIS SHEET ONLY)

8 53C, 4#8

9 53C, 6P22

10 INSTALL A NEW 1 POLE, 30 A, 120 V CIRCUIT BREAKER IN EXIST SERVICE CABINET.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN				
		32		54	60	
6P22 CABLE	VOICE/DATA				4	
2SMFO B/O CABLE	SHORT HAUL VIDEO		1			1
TABLE 1, E-1	CCTV WIRING	1		1		
INNERDUCT (SIZE 32)			1			1
CONDUIT SIZE		103	103	103	103	

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RELOCATE CCTV CAMERA SD278

SCALE 1:200

E-69

CALCULATED/ DESIGNED BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
HIEU LUU	JACQUELINE TAN			

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu116.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:49

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1071	1697

Caltrans Metric

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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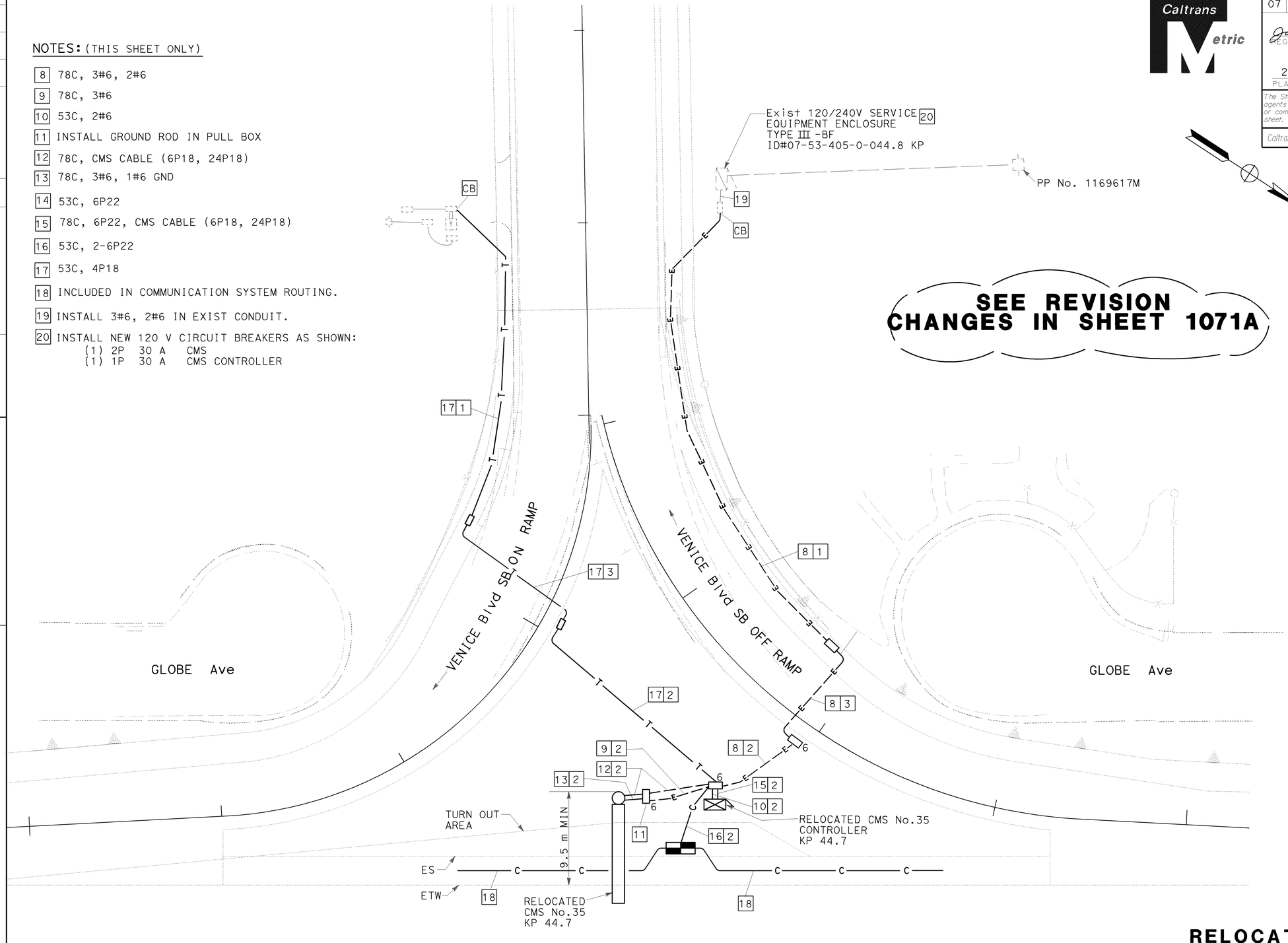
NOTES: (THIS SHEET ONLY)

8 78C, 3#6, 2#6
9 78C, 3#6
10 53C, 2#6
11 INSTALL GROUND ROD IN PULL BOX
12 78C, CMS CABLE (6P18, 24P18)
13 78C, 3#6, 1#6 GND
14 53C, 6P22
15 78C, 6P22, CMS CABLE (6P18, 24P18)
16 53C, 2-6P22
17 53C, 4P18
18 INCLUDED IN COMMUNICATION SYSTEM ROUTING.
19 INSTALL 3#6, 2#6 IN EXIST CONDUIT.
20 INSTALL NEW 120 V CIRCUIT BREAKERS AS SHOWN:
(1) 2P 30 A CMS
(1) 1P 30 A CMS CONTROLLER



SEE REVISION
CHANGES IN SHEET 1071A

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47

RELOCATE CMS No. 35

SCALE 1:200

E-70

DATE	REVISED BY	DATE REVISED
7/03	HL	1-04

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00
DATE PLOTTED => 11-APR-2011
TIME PLOTTED => 14:44

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s111708
DGN FILE => 71178uu117.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1071A	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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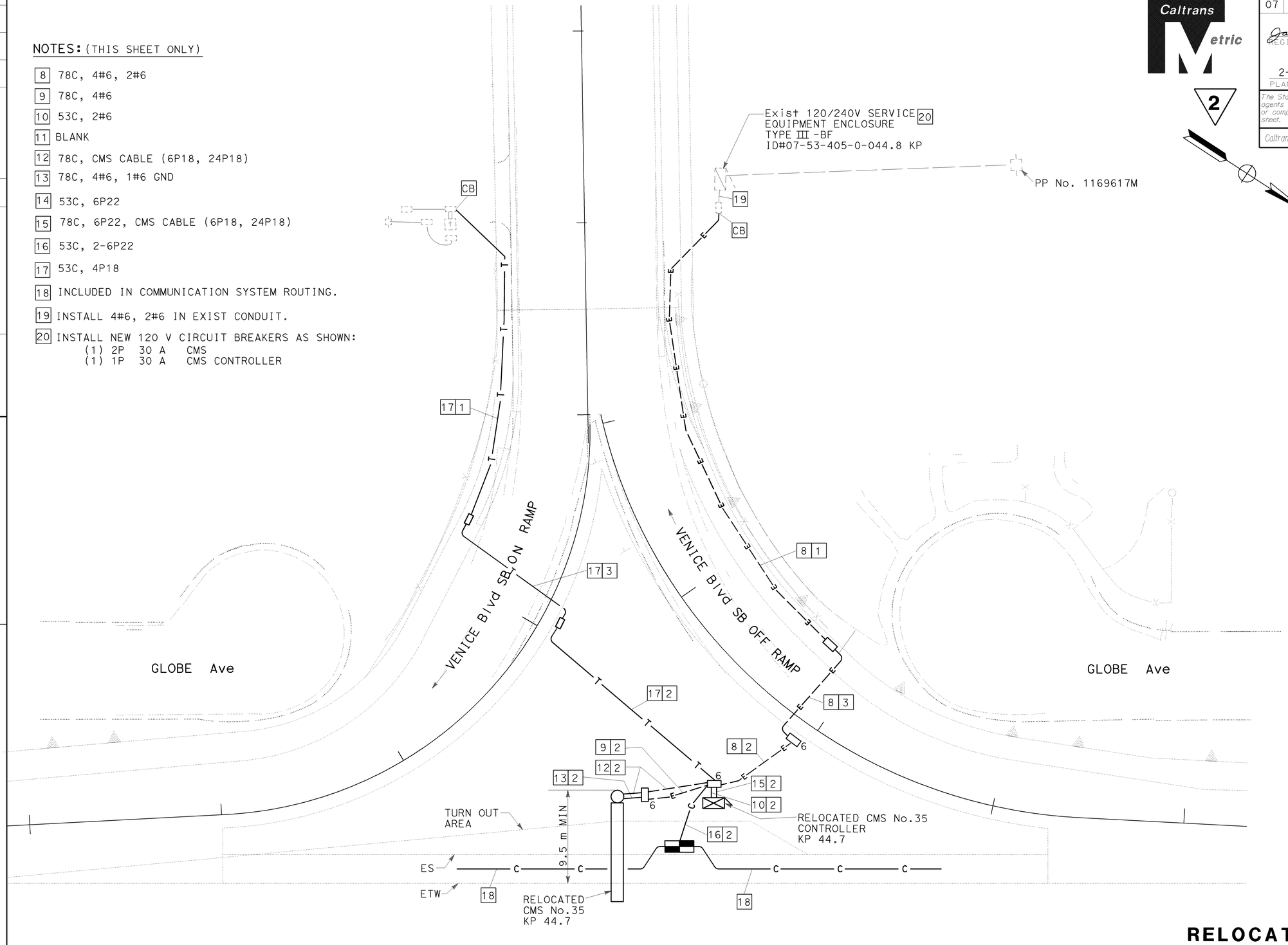
Caltrans Metric

2

AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

NOTES: (THIS SHEET ONLY)

8 78C, 4#6, 2#6
9 78C, 4#6
10 53C, 2#6
11 BLANK
12 78C, CMS CABLE (6P18, 24P18)
13 78C, 4#6, 1#6 GND
14 53C, 6P22
15 78C, 6P22, CMS CABLE (6P18, 24P18)
16 53C, 2-6P22
17 53C, 4P18
18 INCLUDED IN COMMUNICATION SYSTEM ROUTING.
19 INSTALL 4#6, 2#6 IN EXIST CONDUIT.
20 INSTALL NEW 120 V CIRCUIT BREAKERS AS SHOWN:
(1) 2P 30 A CMS
(1) 1P 30 A CMS CONTROLLER



RELOCATE CMS No. 35

SCALE 1:200

2 REVISED PER ADDENDUM NO. 2 DATED MAY 14, 2004

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47

E-70A

DATE	REVISED BY	DATE REVISED
7/03	HIEU LUU	7/03
	JACQUELINE TAN	1-04

CALCULATED/DESIGNED BY: HL
CHECKED BY:

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:49

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu117a.dgn

CU 07223

EA 1178U1

NOTES: (THIS SHEET ONLY)

9 78C-10 DLC

10 53C-1 DLC

11 53C-5 DLC

12 78C-11 DLC

13 78C, 11 DLC

14 103C, 13 DLC

15 51C, 2 DLC

AS-BUILT

Contract No. 07- **1178U4**

Resident Engineer: **J. VENTOCILLA**

Completion Date: **06/10/2010**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1072	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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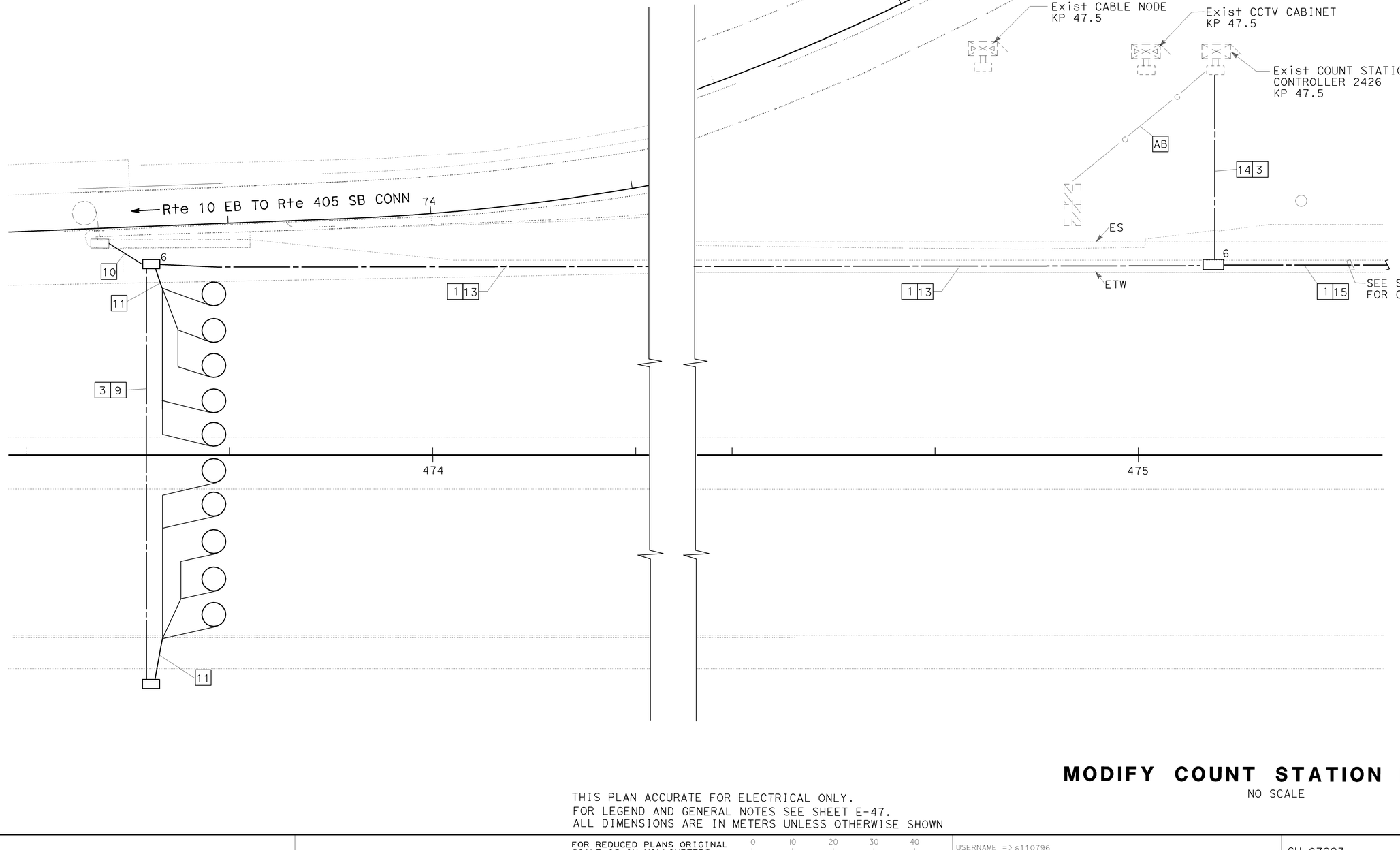


THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY COUNT STATION No. 2426

NO SCALE

E-71

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS DEVELOPMENT

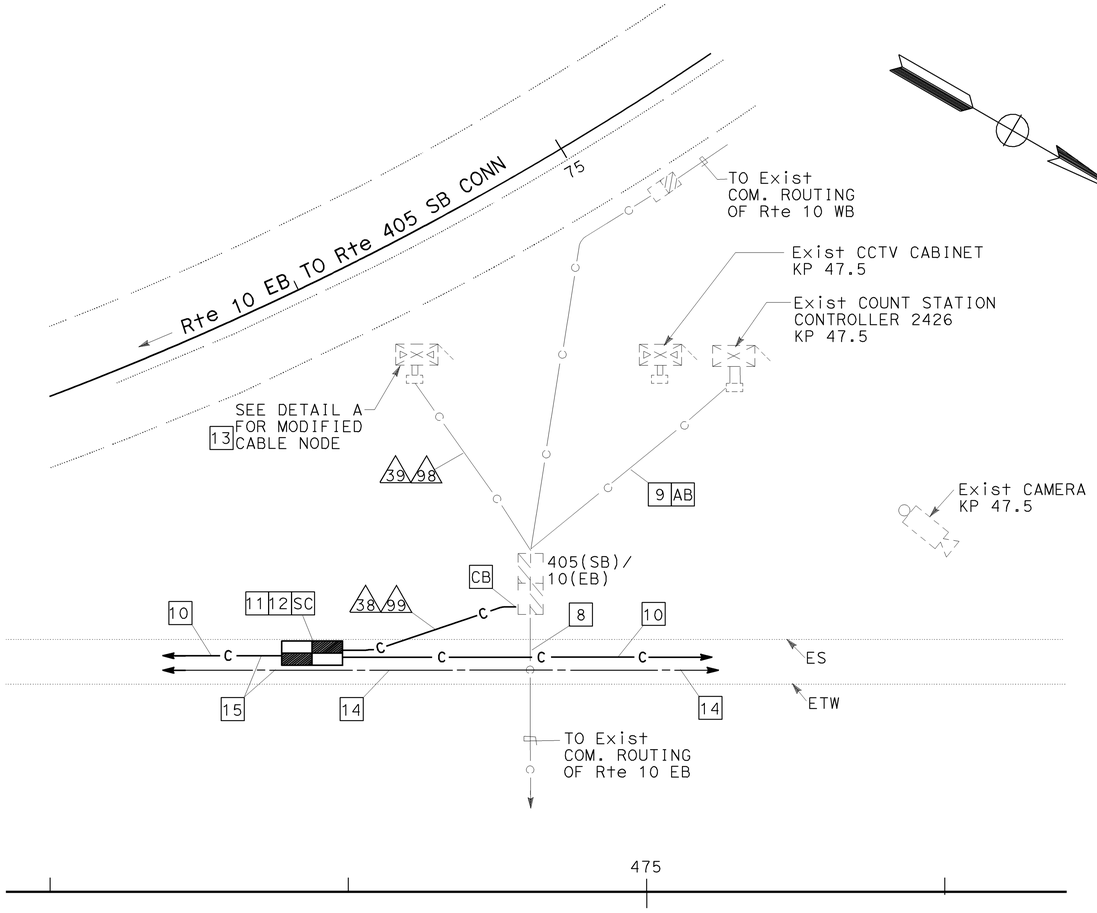
FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu118.dgn

CU 07223

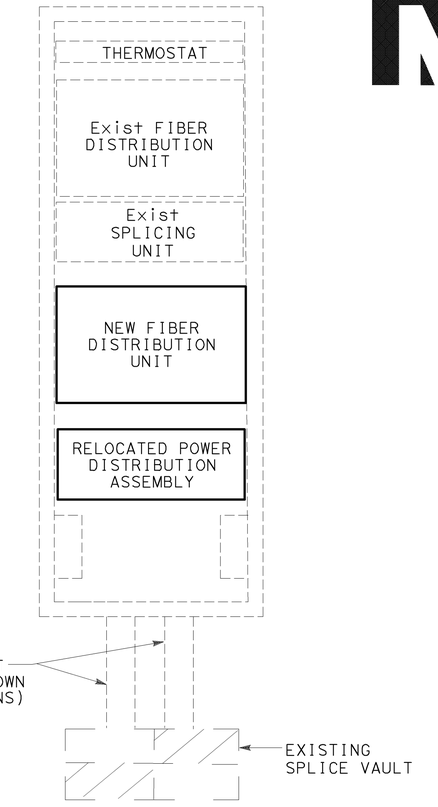
EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:49



MODIFY CABLE NODE KP 47.5

NO SCALE



DETAIL A
MODIFY CABLE NODE

405(SB)/10(EB)
KP 47.5

NOTES: (THIS SHEET ONLY)

8 CONTRACTOR SHALL USE HAND TOOL TO EXCAVATE THIS AREA TO PROTECT THE EXISTING COMMUNICATION CONDUITS.

9 RC ALL EXIST DLC INSIDE EXIST SPLICE VAULT.

10 INCLUDED IN COMMUNICATION SYSTEM ROUTING

11 IDENTIFY ALL EXIST TWISTED PAIR SPLICES. INSTALL NEW TWISTED PAIR SPLICE CLOSURES. SC THE NEW 75P22 CABLES PER CURRENT CONFIGURATION.

12 IDENTIFY ALL EXIST FIBER OPTIC SPLICES. INSTALL NEW FIBER OPTIC SPLICE CLOSURES. SC THE NEW 12SMFO CABLES PER CURRENT CONFIGURATION.

13 IDENTIFY ALL EXIST FIBER OPTIC SPLICES. INSTALL NEW FIBER OPTIC SPLICE CLOSURES. SC THE NEW 48SMFO CABLES PER CURRENT CONFIGURATION.

14 FOR REFERENCE ONLY. INCLUDED IN SHEET E-71.

15 INSTALL CONDUITS IN THE SAME TRENCH.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT & CONDUCTOR TYPE	FUNCTION	RUN							
		38		39		45	46	98	99
75P22 CABLE	VOICE/DATA								
6P22 CABLE	VOICE/DATA								
48SMFO CABLE	VIDEO/DATA	1	1(E)	1	1(E)				
24SMFO CABLE	VIDEO/DATA	1		1					
12SMFO CABLE	SHORT HAUL VIDEO								
DLC	DETECTOR LEAD CABLE					11	2		
INNERDUCT(SIZE 32)		1		1	1				
CONDUIT SIZE		103		103(E)		78	53	103(E)	103

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED.
(E) EXISTING CONDUIT OR CONDUCTORS

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY CABLE NODE (KP 47.5)

NO SCALE

E-72

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1073	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
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- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN
DATE REVISED
REVISED BY
DATE

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:49

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu119.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1074	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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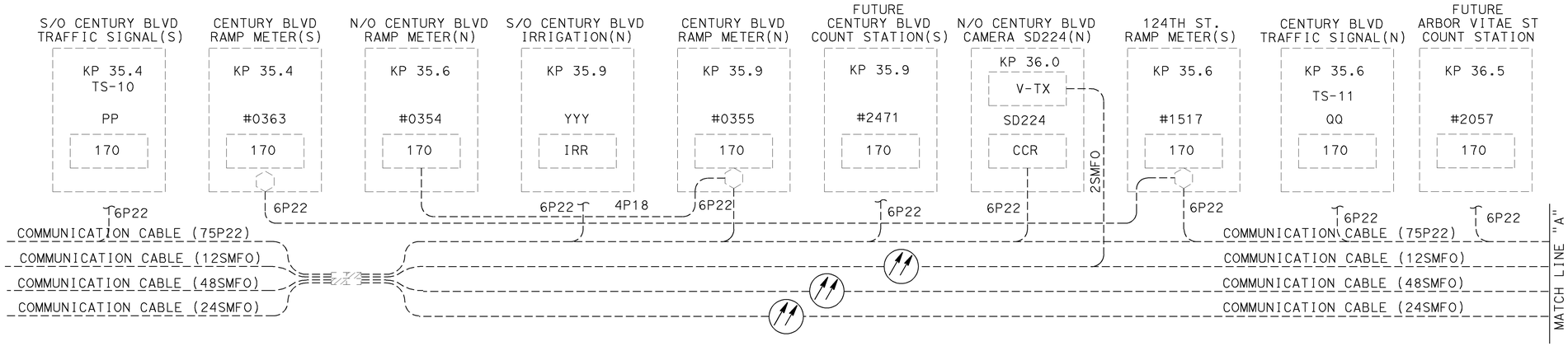
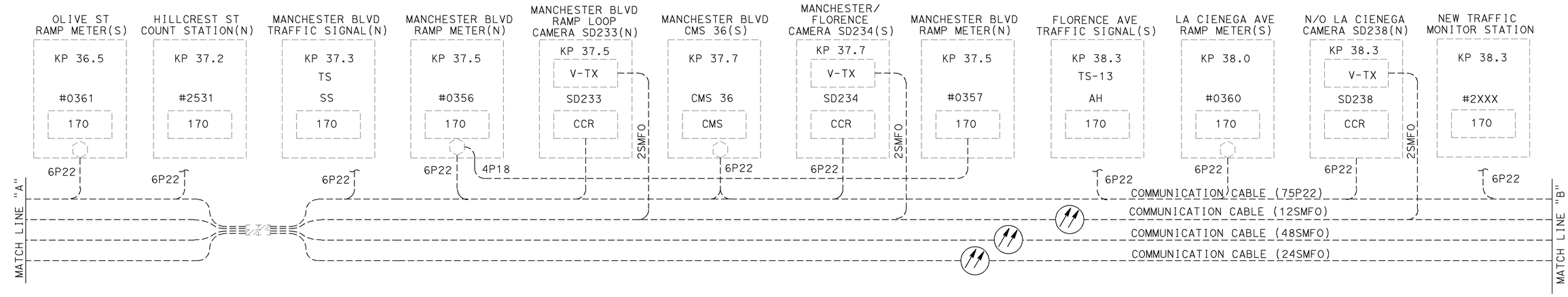
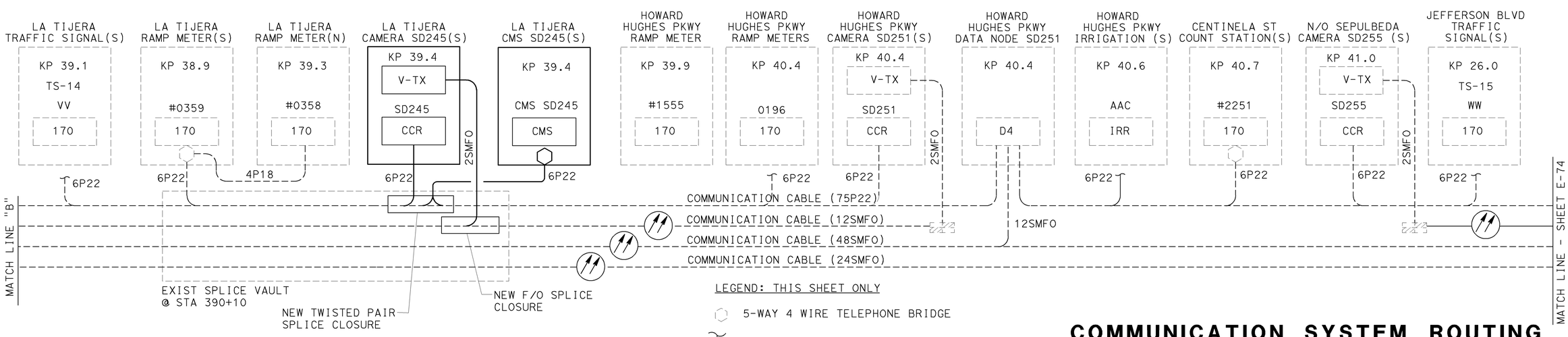
Caltrans Metric

AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**







NOTES: (THIS SHEET ONLY)

1. SEE SHEET E-78 AND E-79 FOR TWISTED PAIR ASSIGNMENT TABLE.

LEGEND: THIS SHEET ONLY

- 5-WAY 4 WIRE TELEPHONE BRIDGE
- 6P22 COILED IN PULL BOX
- OPTICAL FIBER CABLE

COMMUNICATION SYSTEM ROUTING
(MODIFY - SCHEMATIC)

NO SCALE

E-73

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

PROJECT ENGINEER: HIEU LUU

CALCULATED/ DESIGNED BY: RODOLFO HERNANDEZ
CHECKED BY:

DATE REVISED | DATE | REVISED BY

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

USERNAME => s110796
DGN FILE => 71178uu120.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:49

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1075	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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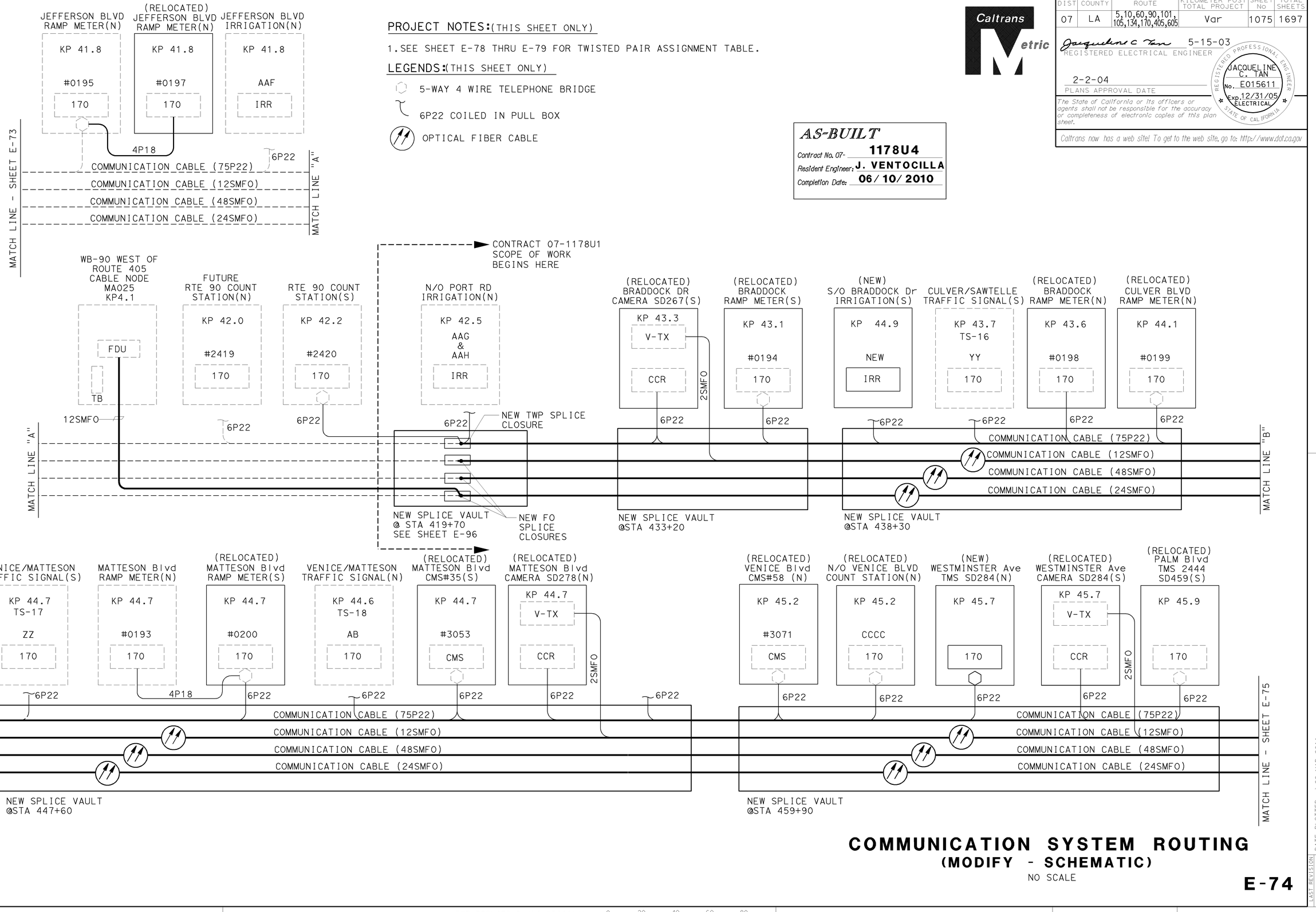
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

PROJECT NOTES: (THIS SHEET ONLY)

1. SEE SHEET E-78 THRU E-79 FOR TWISTED PAIR ASSIGNMENT TABLE.

LEGENDS: (THIS SHEET ONLY)

- 5-WAY 4 WIRE TELEPHONE BRIDGE
- 6P22 COILED IN PULL BOX
- OPTICAL FIBER CABLE



COMMUNICATION SYSTEM ROUTING
(MODIFY - SCHEMATIC)

NO SCALE

E-74

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

PROJECT ENGINEER: HIEU LUU

CALCULATED/DESIGNED BY | CHECKED BY

DATE | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 22-MAR-2011 | TIME PLOTTED => 12:49

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

USERNAME => s110796
DGN FILE => 71178uu121.dgn

CU 07223 | EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1076	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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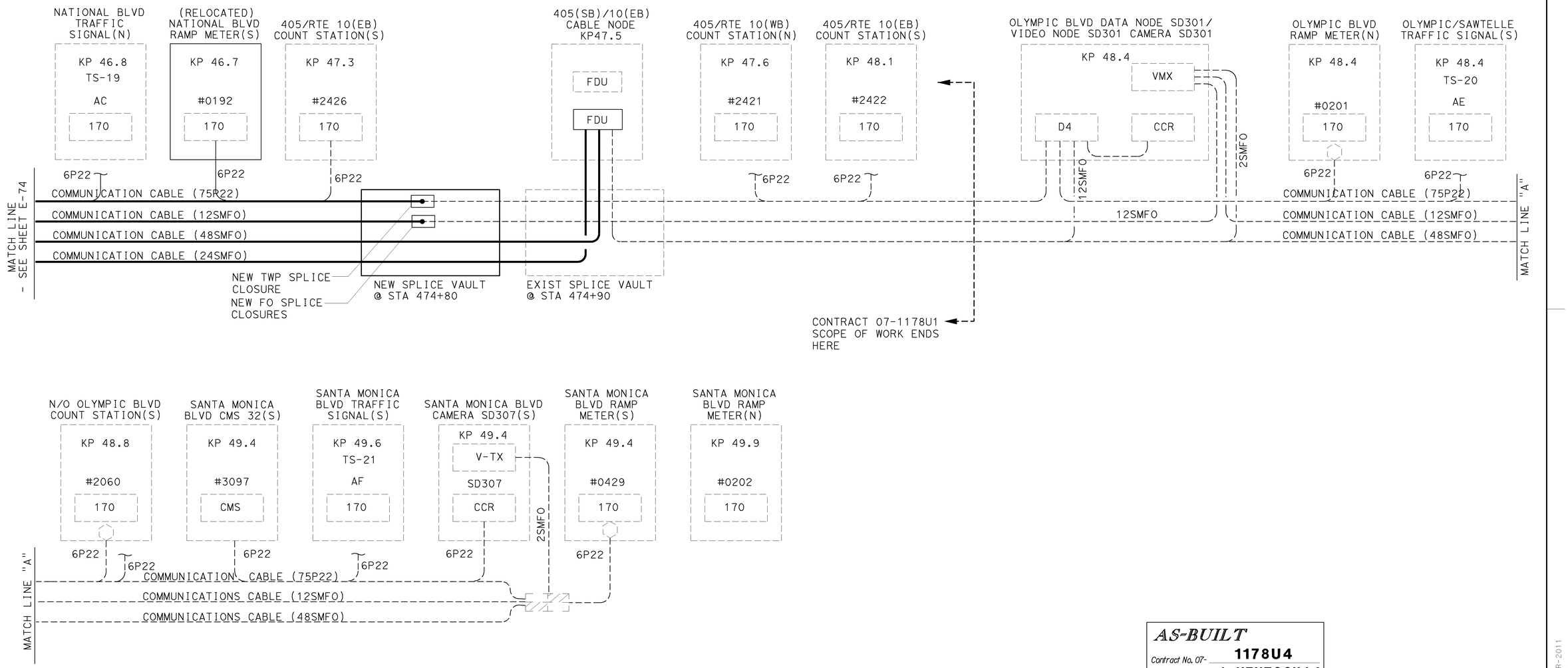

NOTES:(THIS SHEET ONLY)

1.SEE SHEET E-78 THRU E-79 FOR TWISTED PAIR ASSIGNMENT TABLE.

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

COMMUNICATION SYSTEM ROUTING
(MODIFY - SCHEMATICS)

NO SCALE

E-75

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
PROJECT ENGINEER HIEU LUU
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED BY
DATE REVISED

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

USERNAME => s110796
DGN FILE => 71178uu122.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:49

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1077	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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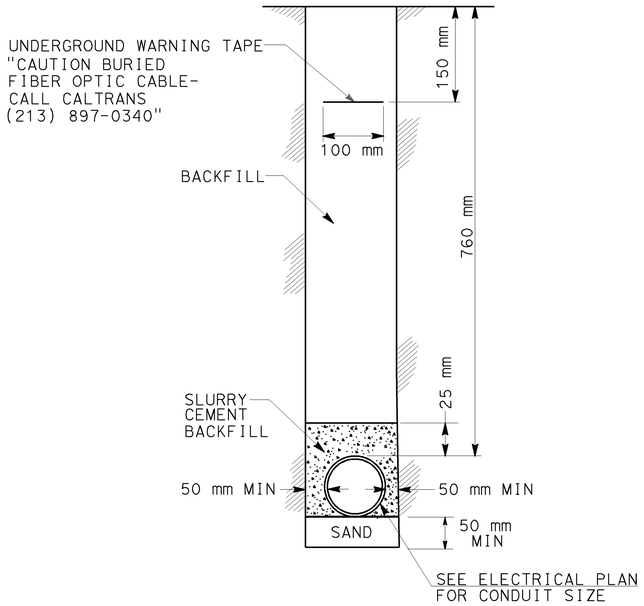
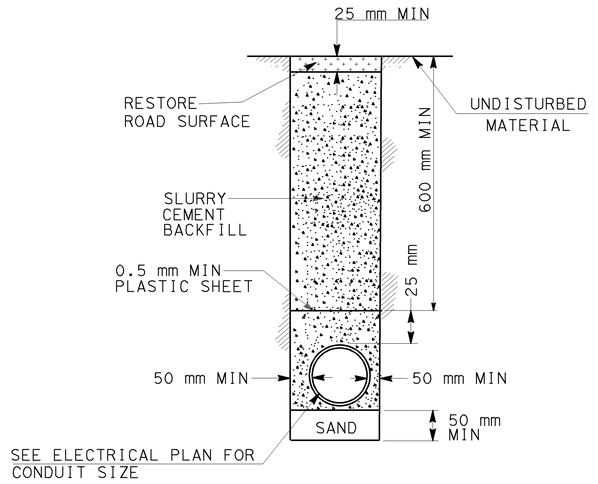
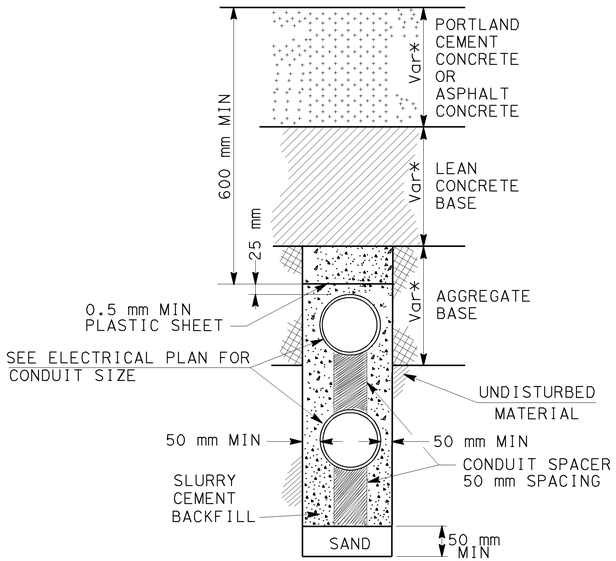
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



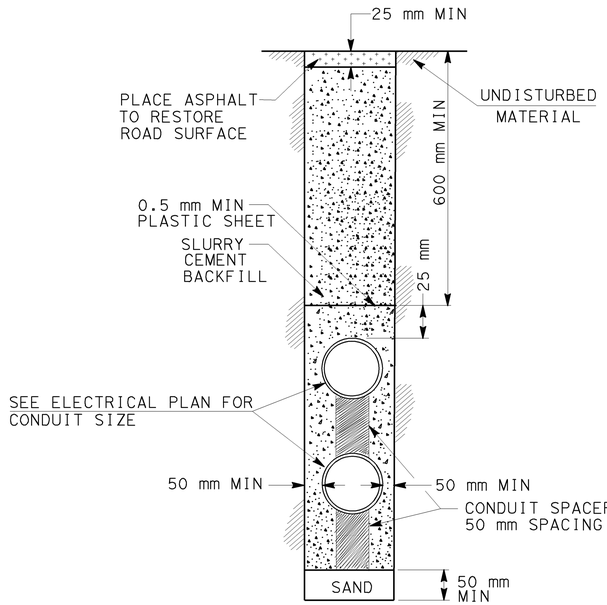
TYPICAL TRENCH IN SOIL DETAIL



TYPICAL TRENCH IN ASPHALT PAVEMENT DETAIL



TYPICAL SHARED TRENCH IN NEW CONCRETE PAVEMENT
(* PAVEMENT THICKNESS, SEE TYPICAL CROSS SECTION PLANS)



TYPICAL SHARED TRENCH IN ASPHALT PAVEMENT

COMMUNICATION SYSTEM ROUTING
(MODIFY - TRENCH DETAILS)

NO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-76

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	RODOLFO HERNANDEZ	
CHECKED BY		

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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USERNAME => s110796
DGN FILE => 71178uu123.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1078	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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COMMUNICATION CABLE (12 SMFO) ASSIGNMENT TABLE FOR VIDEO NODE SD301 FROM CAMERA LOCATION SD255 (PM 25.5) TO CAMERA LOCATION SD307 (PM 30.7)

	VIDEO NODE 1 AT CAMERA LOCATION 16 (PM 30.1)		CAMERA 12	CAMERA 13	CAMERA 14	CAMERA 15	CAMERA 16	CAMERA 17	VIDEO NODE 1 AT CAMERA LOCATION 16 (PM 30.1)			
FIBER	USE	CALCULATED LOSS, db	PM 25.5	PM 26.7	PM 27.8	PM 28.5	PM 30.1	PM 30.7	USE	CALCULATED LOSS, db	FIBER	NOTES
1	SPARE						IN	OUT	CAMERA SD307	3.4	1	
2	CAMERA SD255	6.9	OUT				IN		SPARE		2	
3	CAMERA SD267	6.9		OUT			IN		SPARE		3	
4	CAMERA SD278	5.7			OUT		IN		SPARE		4	
5	CAMERA SD285	4.3				OUT	IN		SPARE		5	
6	SPARE								SPARE		6	
7	SPARE								SPARE		7	
8-12	SPARE								SPARE		8-12	

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

COMMUNICATION SYSTEM ROUTING
(MODIFY - FIBER ASSIGNMENT TABLE)

E-77

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu124.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:49

COMMUNICATION CABLE (75P22) ASSIGNMENT TABLE FROM KP 40.4 TO KP 48.4: CABLE TP-SD251-301

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1079	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
PLANS APPROVAL DATE

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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

CONTRACT 07-1178U1 SCOPE OF WORK BEGINS HERE

CONTRACT 07-1178U1 SCOPE OF WORK ENDS HERE

PAIR	USE	DATA NODE SD251 HOWARD HUGHES Pkwy	IRR HOWARD HUGHES Pkwy	TMS 2251 CENTINELLA ST (S)	CCTV SD255 (S) N/O SEPULVEDA Blvd	TS JEFFERSON Blvd (S)	IRR JEFFERSON Blvd (S)	RMS 0195 JEFFERSON Blvd (S)	TMS 2419 JEFFERSON Blvd (S) Rte 90 (N)	RMS 0197 JEFFERSON Blvd (S)	IRR JEFFERSON Blvd (N)	SPLICE VAULT S/O SLAUSON Ave	TMS 2420 Rte 90 (S)	IRR N/O PORT Rd (S)	IRR S/O BRADDOCK Dr (S)	BRADDOCK Dr CCTV SD43.3 (S)	RMS 0194 BRADDOCK DR(S)	TS CULVER/SAWTELLE Blvd (S)	RMS 0199 CULVER Blvd (N)	IRR N/O WASHINGTON Blvd (S)	CMS 3515(S) MATTESON Ave (S)	TS VENICE Blvd/ MATTESON Ave (S)	RMS 0200 MATTESON Blvd (N)	RMS 0200 MATTESON Blvd (S)	RMS 0193 MATTESON Blvd (S)	TS VENICE Blvd (N) MATTESON Blvd (N)	TS VENICE Blvd/ MATTESON Ave (N)	CCTV SD44.8 MATTESON Blvd (N)	IRR S/O VENICE Blvd (N)	CMS NO. 58 (N) N/O OF VENICE Blvd	TMS CCCC N/O VENICE Blvd (N)	CCTV SD285 (S) WESTMINSTER Ave (N)	TMS 2059 WESTMINSTER Ave (N)	TMS 2YYY PALM BLVD (S)	TS NATIONAL Blvd (N)	RMS 0192 NATIONAL Blvd (N)	TMS 2427 NATIONAL Blvd (S) 405/RTE 10 (S)	TMS 2426 405/RTE 10 EB (S)	SPLICE VAULT 405/RTE 10 EB (S)	TMS 2421 405/RTE 10 WB (N)	CCTV SD3017 NODE SD48.4 OLYMPIC Blvd
KP		40.4	40.6	40.7	41.0	41.8	41.8	41.5	41.9	41.9	42.0	42.0	42.1	42.3	43.3	43.3	43.3	43.8	43.8	44.2	44.8	44.8	44.8	44.8	44.8	44.8	44.8	45.0	45.2	45.4	45.7	45.7	45.9	46.8	46.7	46.8	47.5	47.6	47.8	48.4
1	TS TX	X				T						S						T				T					T								T				S		
2	TS RX	X				T						S						T				T					T								T				S		
3		X										S																										S		
4		X										S																										S		
5		X										S																										S		
6		X										S																										S		
7	MODEM LINE 5INB TX	X		X					X			S											X														S		
8	MODEM LINE 5INB RX	X		X					X			S											X														S		
9	MODEM LINE 1NB TX	X										S																							T		S	T	
10	MODEM LINE 1NB RX	X										S																							T		S	T	
11	STATE COUNT TX	X										S																T									S		
12	STATE COUNT RX	X										S																T									S		
13	MODEM LINE 10 TX	X										S																							X		S		
14	MODEM LINE 10 RX	X										S																							X		S		
15	TX	X										S																									S		
16	RX	X										S																									S		
17	TX	X										S																									S		
18	RX	X										S																									S		
19	TX	X										S																									S		
20	RX	X										S																									S		
21	TX	X										S																									S		
22	RX	X										S																									S		
23	TX	X										S																									S		
24	RX	X										S																									S		
25	CMS #3054 TX	O										S									X															S		O
26	CMS #3054 RX	O										S									X															S		O
27	CMS #3071 TX	X										S																X								S		X
28	CMS #3071 RX	X										S																X								S		X
29	SPARE	O										S																								S		X
30	SPARE	O										S																								S		X
31	TX	X	T				T				T	S				T																				S		
32	RX	X	T				T				T	S				T																				S		
33												S																								S		X
34												S																								S		X
35												S																								S		X
36												S																								S		X
37	MODEM LINE 5ISB TX							X				S						X						X												S		X
38	MODEM LINE 5ISB RX							X				S						X						X												S		X
39	MODEM LINE 1SB TX											S																		T		X			X	S		X
40	MODEM LINE 1SB RX											S																		T		X			X	S		X
41	RESERVED											S																								S		X
42	RESERVED											S																								S		X
43	RESERVED											S																								S		X
44	RESERVED											S																								S		X
45	RESERVED											S																								S		X
46	RESERVED											S																								S		X
47	RESERVED											S																								S		X
48	RESERVED											S																								S		X
49	SB CCR TX				X							S															X								S		X
50	SB CCR RX				X							S															X								S		X

ABBREVIATIONS:(THIS SHEET)

X - TERMINATED ACTIVE

O - TERMINATED SPARE

XC - CROSS-CONNECTION THROUGH AT TERMINAL BLOCK

T - SPLICE ONLY, NO TERMINATION

S - SPLICE

AA-FYXXX-YYY
- AA: CABLE TYPE: TP=TWISTED PAIR, FO=FIBER OPTIC
- FYXXX: FREEWAY NAME SHORT FORM
- YYY: BEGIN POST MILE (TO NEAREST 10TH)
- YYY: END POST MILE (TO NEAREST 10TH)

COMMUNICATION SYSTEM ROUTING (MODIFY - TWISTED PAIR ASSIGNMENT TABLE)

NO SCALE

E-78

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

PROJECT ENGINEER: HIEU LUU

DATE	REVISED BY	DATE REVISED

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DGN FILE => 71178uu125.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1080	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
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- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

COMMUNICATION CABLE (75P22) ASSIGNMENT TABLE FROM KP 40.4 TO KP 48.4: CABLE TP-SD251-301

CONTRACT 07-1178U1 SCOPE OF WORK BEGINS HERE

CONTRACT 07-1178U1 SCOPE OF WORK ENDS HERE

PAIR	USE		DATA NODE SD251	HOWARD HUGHES PKwy IRR	HOWARD HUGHES PKwy TMS 2251	CENTINELLA ST (S) CCTV SD255 (S)	N/O SEPULVEDA Blvd JEFFERSON Blvd (S)	JEFFERSON Blvd IRR	JEFFERSON Blvd (S) RMS 0195	JEFFERSON Blvd (S) TMS 2419	Rte 90 (N) RMS 0197	JEFFERSON Blvd IRR	JEFFERSON Blvd (N) SPLICE VAULT	S/O SLAUSON Ave TMS 2420	Rte 90 (S) IRR	N/O PORT Rd (S) IRR	S/O BRADDOCK Dr (S) BRADDOCK Dr	CCTV SD43.3 (S) RMS 0194	BRADDOCK DR(S) CULVER/SAWTELLE Blvd (S)	RMS 0199 CULVER Blvd (N)	IRR N/O WASHINGTON Blvd (S)	CMS 35(S) MATTESON Ave (S)	TS, VENICE Blvd/ MATTESON Ave (S)	RMS 0200 MATTESON Blvd (N)	RMS 0200 MATTESON Blvd (S)	RMS 0193 MATTESON Blvd (S)	TS, VENICE Blvd (NS) MATTESON Ave/	CCTV SD44.8 (N) IRR S/O VENICE Blvd	CMS NO. 58 (N) N/O OF VENICE Blvd	TMS CCCC N/O VENICE Blvd	CCTV SD285 (S) WESTMINSTER Ave (N)	TMS 2059 WESTMINSTER Ave (N)	TMS 2YYY PALM Blvd (S) TS	NATIONAL Blvd (N) RMS 0192	NATIONAL Blvd (S) TMS 2427	405/RTE 10 (S) TMS 2426	405/RTE 10 EB (S) SPLICE VAULT	405/RTE 10 WB (N) TMS 2421	CCTV SD3017 NODE SD48.4	OLYMPIC Blvd
		KP	40.4	40.6	40.7	41.0	41.8	41.8	41.5	41.9	41.9	42.0	42.0	42.1	42.3	43.3	43.3	43.3	43.8	43.8	44.2	44.8	44.8	44.8	44.8	44.8	44.8	44.8	45.0	45.2	45.4	45.7	45.7	45.9	46.8	46.7	46.8	47.5	47.6	47.8	48.4
51	CCR SB	TX	X				T						S					X	T				T				T					X			T				S		X
52	CCR SB	RX	X				T						S					X	T				T				T					X			T				S		X
53		TX											S																										S		
54		RX											S																										S		
55		TX											S																										S		
56		RX											S																										S		
57													S	X										X														S		
58													S	X										X														S		
59	SPARE		0										S																									S		
60	SPARE		0										S																									S		
61	SPARE		0										S																T									S		
62	SPARE		0										S																T									S		
63	SPARE		0										S																									S		
64	SPARE		0										S																									S		
65	SPARE		0										S																									S		
66	SPARE		0										S																									S		
67	SPARE												S																									S		
68	SPARE												S																									S		0
69	SPARE												S																									S		0
70	SPARE												S																									S		0
71	SPARE												S																									S		0
72	OR-IRR			T				T			T		S				T																					S		0
73	OW-TS					T							S						T			T			T										T			S		X
74	OW-CTV/CMS				X								S		X	X										X	X					X	X					S		X
75	OW TX/RX RMS/TMS		X		X				X			T	S					X		X	X			X					T	X	T	T	X				X	T	X	S	T	X
																																									X

ABBREVIATIONS:(THIS SHEET ONLY)

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AA-FYXXX-YYY
- AA: CABLE TYPE: TP=TWISTED PAIR, FO=FIBER OPTIC
- F: FREEWAY NAME SHORT FORM
- XXX: BEGIN POST MILE (TO NEAREST 10TH)
- YYY: END POST MILE (TO NEAREST 10TH)

COMMUNICATION SYSTEM ROUTING
(MODIFY - TWISTED PAIR ASSIGNMENT TABLE)

NO SCALE

E-79

DATE | REVISED BY | DATE REVISED

CALCULATED/ DESIGNED BY | CHECKED BY

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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USERNAME => s110796
DGN FILE => 71178uu126.dgn

CU 07223 | EA 1178U1

HOWARD HUGHES PARKWAY (SOUTH)
DATA NODE SD251 CIRCUIT ASSIGNMENT (E-120)

D4 CHANNEL NUMBER	405 HUB INTERFACE	NODE INTERFACE	FUNCTION	TERMINATION CABLE	TERMINATION NODE
1	4WTO	4WTO	170-CMS 36	SD213251	35,36
2	4WTO	4WTO	170-NN	SD213251	39,40
3	4WTO	4WTO	170-QQ	SD213251	41,42
4	4WTO	4WTO	170-AH	SD213251	43,44
5	4WTO	4WTO	170-VV	SD213251	45,46
6	4WTO	4WTO	170-0353	SD213251	47,48
7	4WTO	4WTO	170-2056	SD213251	49,50
8	4WTO	4WTO	170-1517	SD213251	51,52
9	4WTO	4WTO	170-2057	SD213251	53,54
10	4WTO	4WTO	170-0357	SD213251	55,56
11	4WTO	4WTO	170-0359	SD213251	57,58
12	2WFX	2WFXS	OW-3	SD213251	75
13		SPARE			
14		SPARE			
15		SPARE			
16		SPARE			
17		SPARE			
18		SPARE			
19		SPARE			
20		SPARE			
21		SPARE			
22		SPARE			
23		SPARE			
24		SPARE			

OLYMPIC/PICO (SOUTH)
DATA/VIDEO NODE SD301 CIRCUIT ASSIGNMENT (E-122)

D4 CHANNEL NUMBER	405 HUB INTERFACE	NODE INTERFACE	FUNCTION	TERMINATION CABLE	TERMINATION NODE 1	
1	~~4WTO~~	~~4WTO~~	~~CMS-3054~~	~~SD251301~~	~~25,26~~	DISCONNECT
2	4WTO	4WTO	CMS-AF3071	SD251301	27,28	
3	4WTO	4WTO	CMS-3053	SD251301	29,30	
4	4WTO	4WTO	170-YY	SD251301	33,34	
5	4WTO	4WTO	170-AB	SD251301	35,36	
6	4WTO	4WTO	170-2419	SD251301	37,38	
7	4WTO	4WTO	170-0199	SD251301	39,40	
8	4WTO	4WTO	170-DDDD	SD251301	41,42	
9	4WTO	4WTO	170-0192	SD251301	43,44	
10	4WTO	4WTO	170-2427	SD251301	45,46	
11	4WTO	4WTO	170-2421	SD251301	47,48	
12	4WTO	4WTO	CCR-SD255	SD251301	49,50	
13	~~4WTO~~	~~4WTO~~	~~CCR-SD267~~	~~SD251301~~	~~51,52~~	DISCONNECT
14	4WTO	4WTO	CCR-SD278	SD251301	53,54	
15	4WTO	4WTO	CCR-SD285	SD251301	55,56	
16	2WFX	2WFXS	OW-4	SD251301	75	
17		SPARE				
18		SPARE				
19		SPARE				
20		SPARE				
21		SPARE				
22		SPARE				
23		SPARE				
24		SPARE				

HOWARD HUGHES PARKWAY (NORTH)
DATA NODE SD251 CIRCUIT ASSIGNMENT (E-120)

D4 CHANNEL NUMBER	405 HUB INTERFACE	NODE INTERFACE	FUNCTION	TERMINATION CABLE	TERMINATION NODE	
1	4WTO	4WTO	170-WW	SD251301	1,2	
2	4WTO	4WTO	170-ZZ	SD251301	3,4	
3	4WTO	4WTO	170-AC	SD251301	5,6	
4	4WTO	4WTO	170-2251	SD251301	7,8	
5	4WTO	4WTO	170-0195	SD251301	9,10	
6	4WTO	4WTO	170-2420	SD251301	11,12	
7	4WTO	4WTO	170-0200	SD251301	13,14	
8	4WTO	4WTO	170-CCCC	SD251301	15,16	
9	4WTO	4WTO	170-CCCC	SD251301	17,18	
10	4WTO	4WTO	170-2059	SD251301	19,20	
11	4WTO	4WTO	170-2426	SD251301	21,22	
12	4WTO	4WTO	170-2422	SD251301	23,24	
13	~~4WTO~~	~~4WTO~~	~~CMS-3054~~	~~SD251301~~	~~25,26~~	DISCONNECT
14	4WTO	4WTO	CMS-3071	SD251301	27,28	
15	4WTO	4WTO	CMS-3053	SD251301	29,30	
16	2WFX	2WFXS	OW-4	SD251301	75	
17		SPARE				
18		SPARE				
19		SPARE				
20		SPARE				
21		SPARE				
22		SPARE				
23		SPARE				
24		SPARE				

OLYMPIC/PICO (NORTH)
DATA/VIDEO NODE SD301 CIRCUIT ASSIGNMENT (E-122)

D4 CHANNEL NUMBER	405 HUB INTERFACE	NODE INTERFACE	FUNCTION	TERMINATION CABLE	TERMINATION NODE
1	4WTO	4WTO	170-AE	SD301310	1,2
2	4WTO	4WTO	170-AF	SD301310	3,4
3	4WTO	4WTO	170-0201	SD301310	5,6
4	4WTO	4WTO	170-2060	SD301310	7,8
5	4WTO	4WTO	170-2060	SD301310	9,10
6	4WTO	4WTO	170-0429	SD301310	11,12
7	4WTO	4WTO	CCR-SD307	SD301310	13,14
8	4WTO	4WTO	CMS-3097	SD301310	15,16
9	2WFO	2WFXS	OW-5	SD301310	75
10	4WTO	4WTO	CCR-SD301	LOCAL 6P22	
11		SPARE			
12		SPARE			
13		SPARE			
14		SPARE			
15		SPARE			
16		SPARE			
17		SPARE			
18		SPARE			
19		SPARE			
20		SPARE			
21		SPARE			
22		SPARE			
23		SPARE			
24		SPARE			

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1081	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
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- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

COMMUNICATION SYSTEM ROUTING
(MODIFY - DATA NODE CIRCUIT ASSIGNMENT TABLES)

E-80

CALCULATED/ DESIGNED BY			
CHECKED BY	HIEU LUU	JACQUELINE TAN	
PROJECT ENGINEER	HIEU LUU		

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

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu127.dgn

CU 07223 EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:49

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1082	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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DATE REVISED BY

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CHECKED BY

PROJECT ENGINEER
HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

(FOR REFERENCE ONLY)
(NOT SEPARATE PAY ITEMS)

COMMUNICATION SYSTEM ROUTING (SUMMARY OF QUANTITIES)

ITEM DESCRIPTION	UNIT	PROJECT TOTAL	PLAN SHEET																	
			E-95	E-96	E-97	E-98	E-99	E-100	E-101	E-102	E-103	E-104	E-105	E-106	E-107	E-108	E-109	E-110	E-111	E-112
78C (TRENCHED IN CONCRETE)	m	160										160								
78C (TRENCHED IN SOIL)	m	760						140					400	400						
53C (TRENCHED IN CONCRETE)	m	400										160	160		300		200	200		
12 SINGLEMODE FIBER OPTIC CABLE (12SMFO)	m	6790	160	270	440	410	400	420	420	420	420	420	420	420	420	420	420	420	420	220
24 SINGLEMODE FIBER OPTIC CABLE (24SMFO)	m	6690		270	440	410	400	420	420	420	420	420	420	420	420	420	420	420	420	220
48 SINGLEMODE FIBER OPTIC CABLE (48SMFO)	m	6690		270	440	410	400	420	420	420	420	420	420	420	420	420	420	420	420	220
TWISTED PAIR CABLE (6-PAIR)	m	360		360																
TWISTED PAIR CABLE (75-PAIR)	m	6690		200	440	410	400	420	420	420	420	420	420	420	420	420	420	420	420	220
INNERDUCT (SIZE 32)	m	12,640		540	880	820	800	840	840	840	840	840	840	840	840	840	840	840	840	440
2 - 103C (INSTALLED INSIDE BRIDGE)	m	660		60	80	120		40	100	60	60		60		80			40		
2 - 103C TYPE 1(TRENCHED IN CONCRETE)	m	6400		100	600	400	400	400	400	400	400	400	400	400	400	400	420	400	420	160
2 - 103C TYPE 1 (JACKED)	m	280			40			40		30		60	40					80	40	
1 - 103C TYPE 1 (JACKED)	m	360							120			100		140			140		20	
LOOP DETECTORS	EA	22													12				10	
DLC CABLES	m	600													300				300	
NO. 6 PULL BOX	EA	18		1					3	2		8						2	2	
COMMUNICATION PULL BOX	EA	48		3	4	4	2	4		4	2	6	2	2	4	2	1	4	3	
SPLICE VAULT	EA	7		1				1	1			1		1					1	1
TWISTED PAIR SPLICE CLOSURE	EA	15		4				3	4											4
FIBER OPTIC SPLICE CLOSURE	EA	8		4				1												3

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

COMMUNICATION SYSTEM ROUTING
(MODIFY)
(SUMMARY OF QUANTITIES)
NO SCALE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
SEE SHEET E-47 FOR LEGEND AND PROJECT NOTES.

E-81

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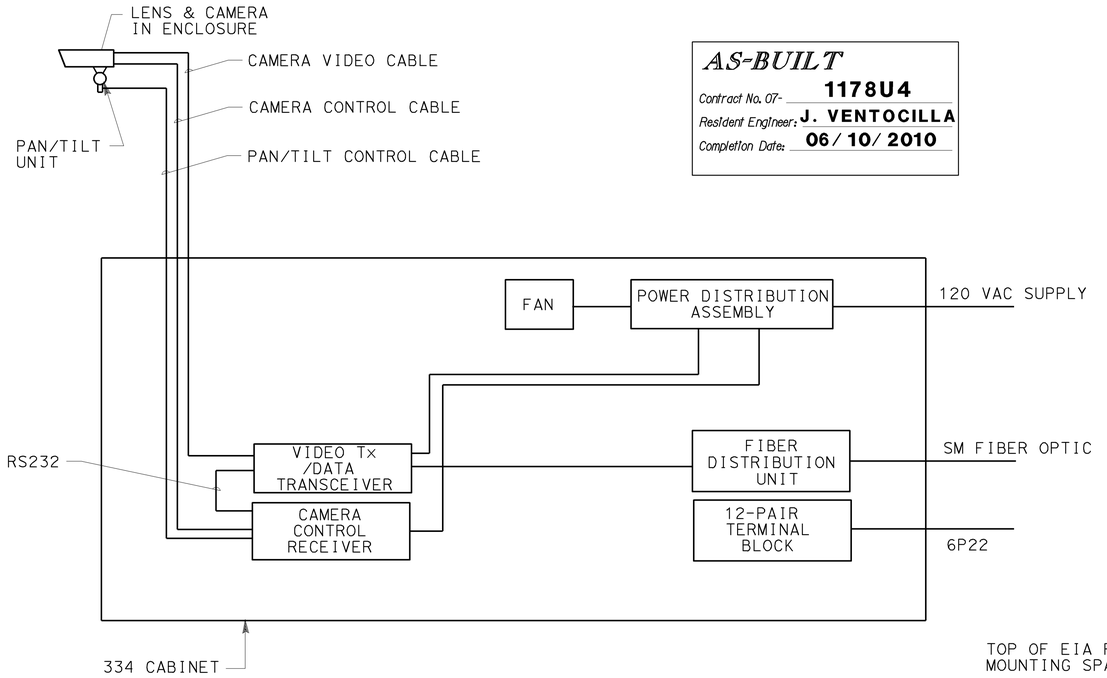
EA 1178U1



AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

LEGEND

- SURGE PROTECTOR
- CIRCUIT BREAKER
- HIGH TEMPERATURE RELAY COIL
- HT — RELAY CONTACT NORMALLY CLOSED
- 8 — WIRE SIZE, IF NOT INDICATED SHALL BE #12 AWG
- F — FAN
- L — INDICATOR LAMP
- THERMOSTATIC CONTROL
- THERMO — ADJUSTABLE CALIBRATED THERMOSTAT
- OW — ORDER WIRE
- R — DUPLEX RECEPTACLE
- SP — SPARE-CONNECTORIZED
- T — TERMINATE
- EQUIPMENT GROUND

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1083	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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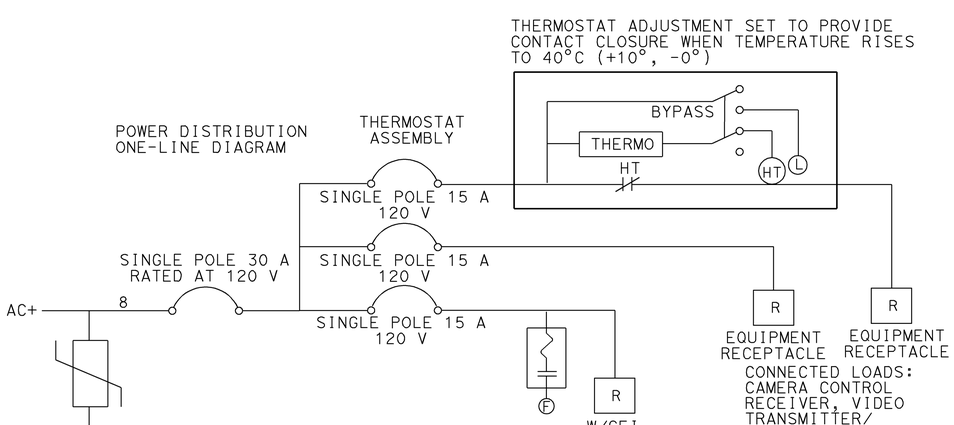
ABBREVIATIONS

W/GFI	WITH GROUND FAULT INTERRUPTOR
UPS	UNINTERUPTABLE POWER SUPPLY
PDA	POWER DISTRIBUTION ASSEMBLY
EG	EQUIPMENT GROUND
1P	1-POLE
HT	HIGH TEMPERATURE
Tx, Rx	TRANSMITTER, RECEIVER
Tc	TRANSCEIVER
DS1	DIGITAL SIGNAL LEVEL 1

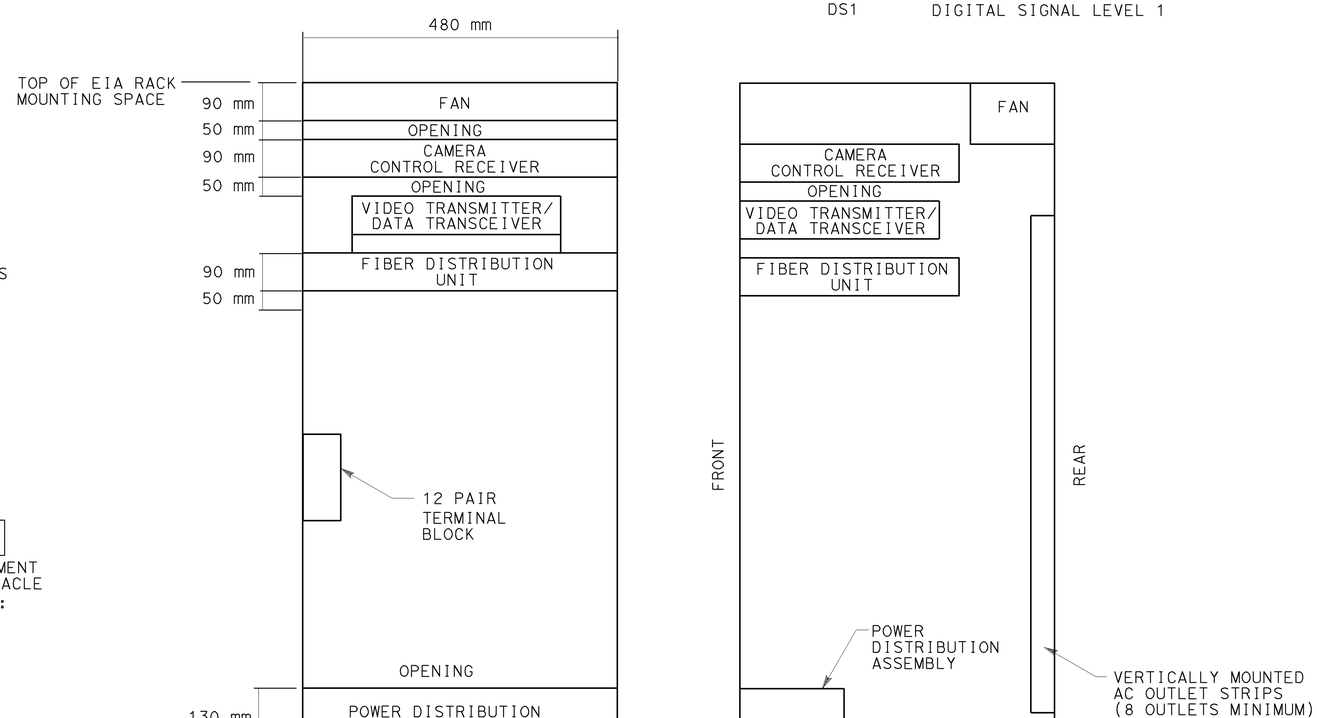
CAMERA ASSEMBLY & CCTV 334-TV CABINET



NOTE:

1. THERMOSTAT ADJUSTED SET TO PROVIDE CONTACT WHEN TEMPERATURE RISES TO 50°C.
2. SEE SPECIFICATIONS FOR CAMERA ASSEMBLY EQUIPMENT POWER REQUIREMENTS.

CCTV WIRING DETAIL POWER DISTRIBUTION ASSEMBLY



CCTV 334-TV CABINET EQUIPMENT LAYOUT

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

CCTV WIRING DETAILS

NO SCALE

E-82

DATE	REVISED BY	DATE REVISED	CALCULATED/ DESIGNED BY	CHECKED BY
7/03	HIEU LUU	7/03	JACQUELINE TAN	
1/04		1/04		

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1084	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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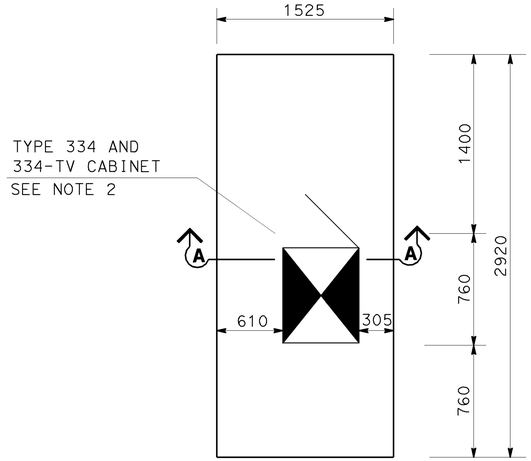
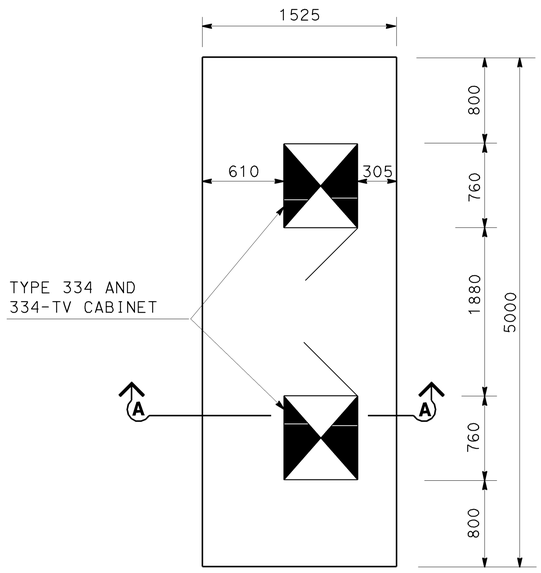


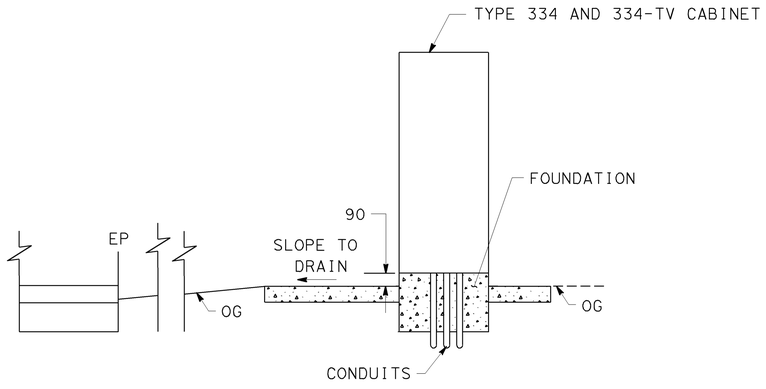
DETAIL A
PLAN VIEW



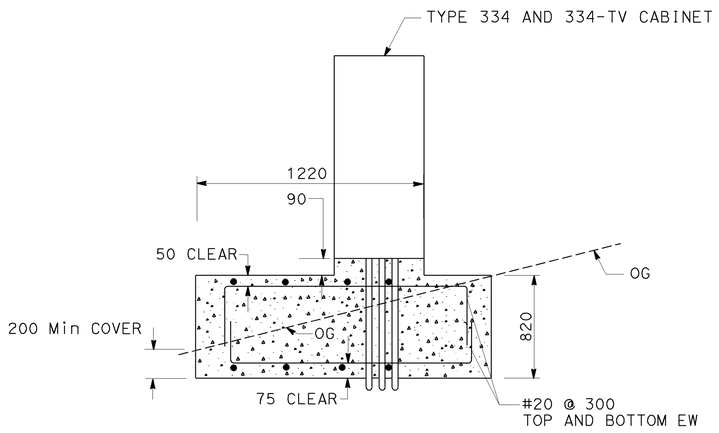
DETAIL B
PLAN VIEW

NOTES: (THIS SHEET ONLY)

1. FOR INFORMATION NOT SHOWN, SEE STANDARD PLAN ES-4B.
2. CABINET DOOR SHALL BE LOCATED PER PLAN AND HINGED TO OPEN AWAY FROM THE TRAVELED WAY.



SECTION A-A
ELEVATION VIEW FOR DETAILS A AND B



SECTION A-A
ELEVATION VIEW FOR DETAILS A AND B

AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

COMMUNICATION SYSTEM ROUTING
TYPE 334 AND 334-TV CABINET (FOUNDATION DETAILS)

NO SCALE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

E-83

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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PROJECT ENGINEER: HIEU LUU

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CU 07223 | EA 1178U1

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1085	1697

Caltrans Metric

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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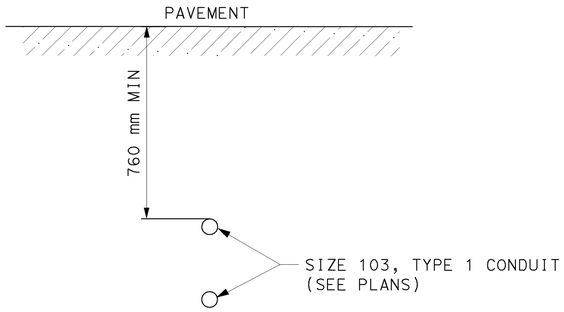
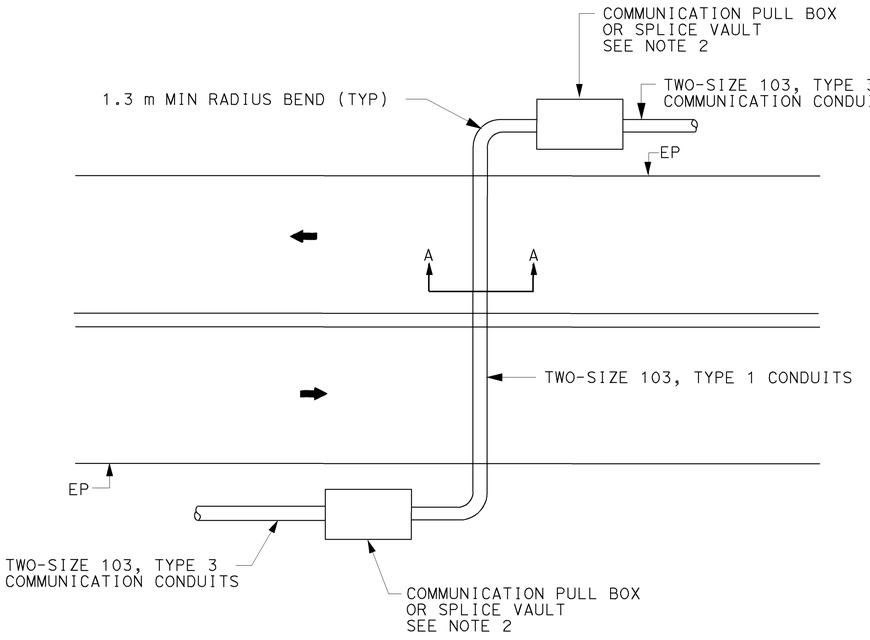
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

NOTES: (THIS SHEET ONLY)

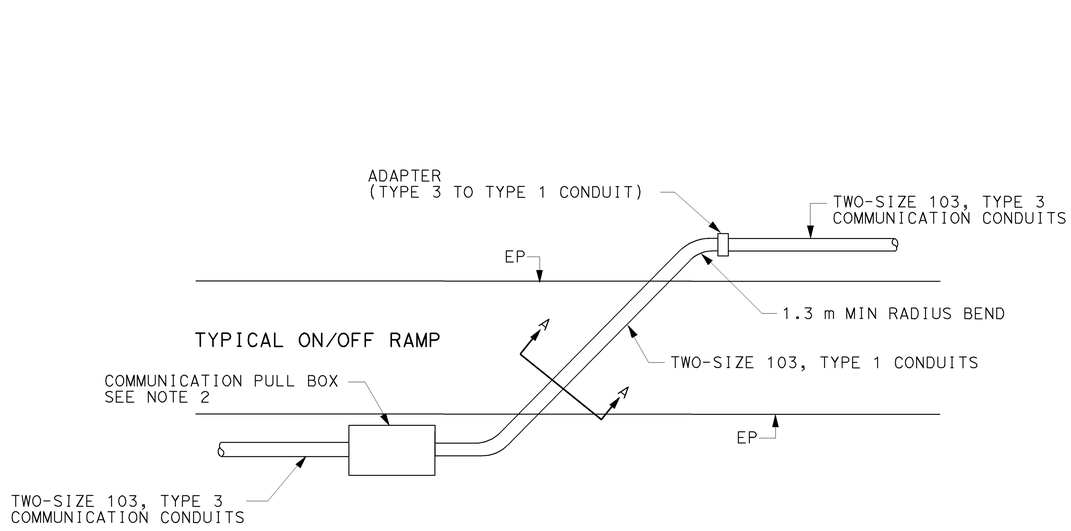
1. ALL JACKED CONDUITS SHALL BE 760 mm MINIMUM BELOW FINISHED GRADE.
2. PLACE PULL BOXES AND SPLICE VAULTS AS SHOWN PER PLANS.
3. ALL BENDS SHALL BE FACTORY BENDS.
4. BEND ANGLES AND CONDUIT DIRECTION VARY AS SHOWN PER PLANS.



SECTION A-A



TYPICAL MAINLINE CROSSING (4 OR MORE LANES)



TYPICAL ON/OFF RAMP CROSSING

COMMUNICATION SYSTEM ROUTING
(JACKING DETAILS)

NO SCALE

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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

E-84

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:49

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DGN FILE => 71178uu131.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1086	1697

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

Caltrans Metric

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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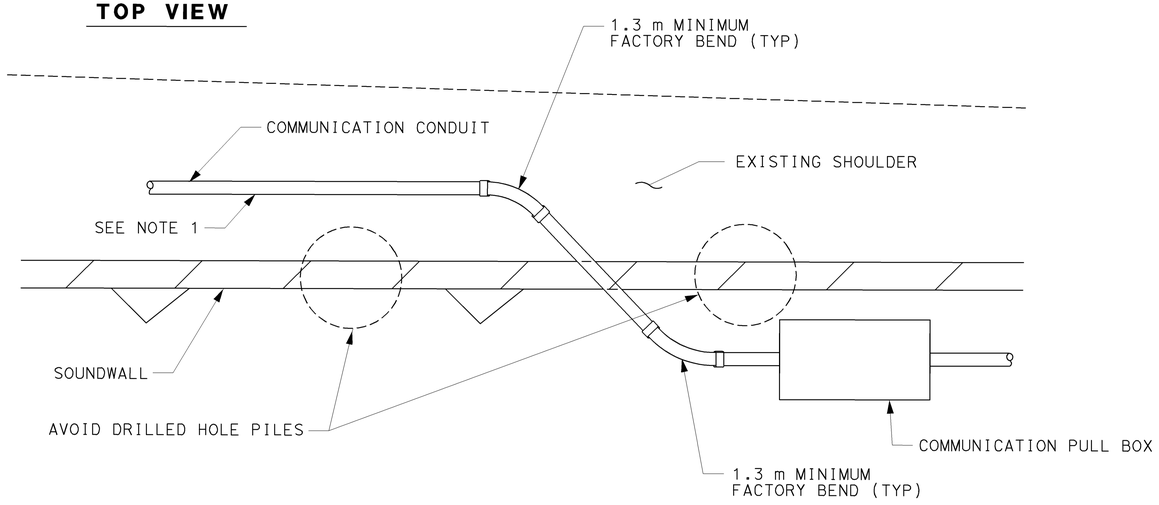
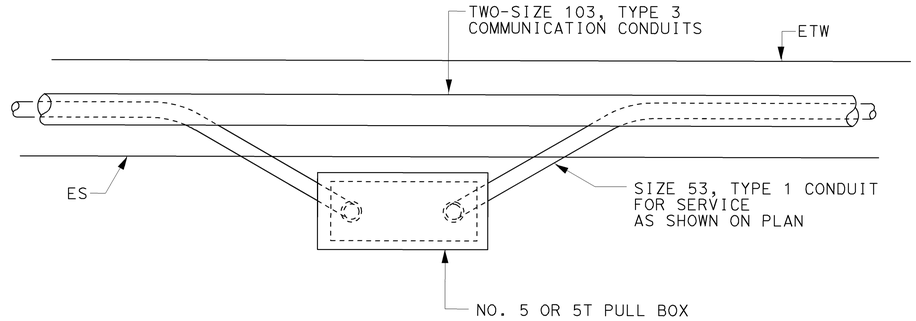
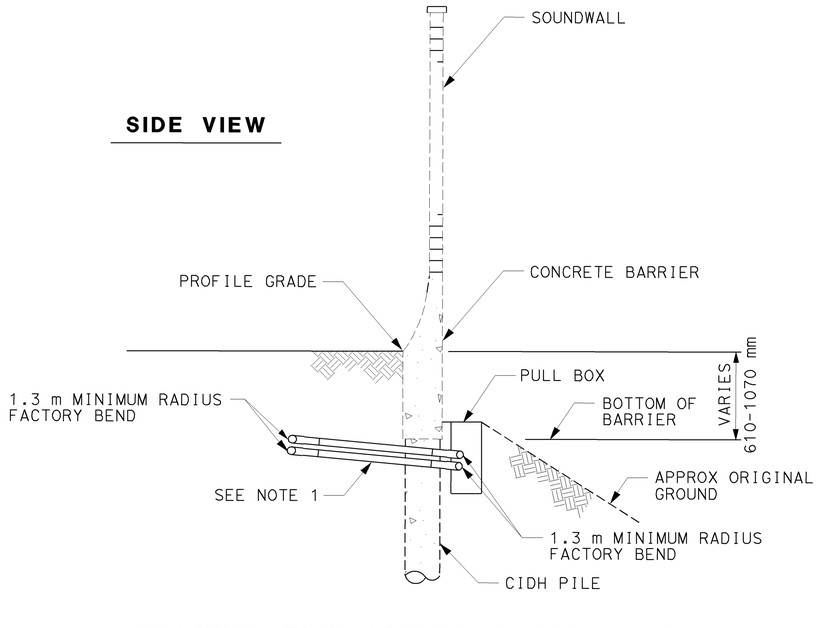
TOP VIEW



TOP VIEW



SIDE VIEW

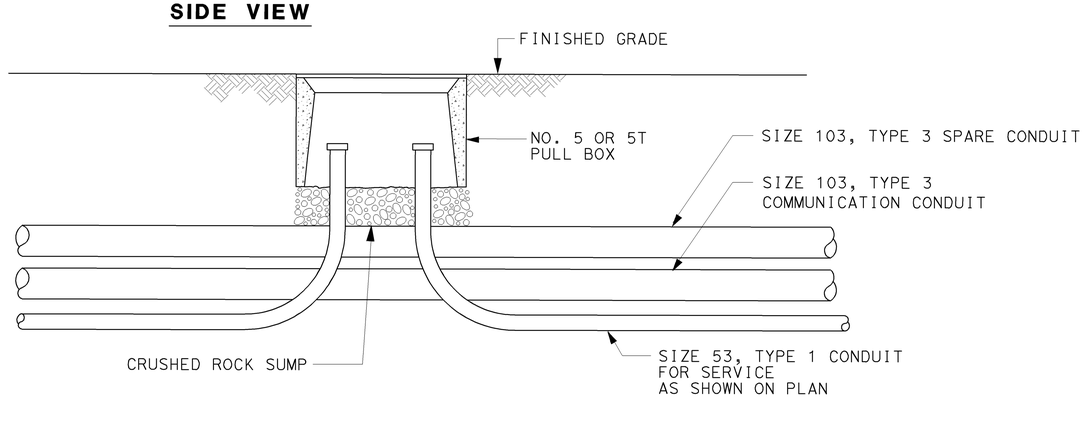


COMMUNICATION CONDUIT CROSSING SOUNDWALL ON CIDH PILES

NOTES:

1. CONDUIT TO GRADUALLY TRANSITION FROM 230 mm TO DEPTH REQUIRED TO CROSS BENEATH CONCRETE BARRIER.

SIDE VIEW



SERVICE CONDUIT BREAKOUT FROM COMMUNICATION CONDUIT

NOTES:

1. ROUTE SERVICE CONDUIT UP FROM BENEATH COMMUNICATION CONDUITS INTO NO. 5 OR 5T PULL BOX.
2. COMMUNICATION CONDUITS REMAIN IN TRENCH.

COMMUNICATION SYSTEM ROUTING
(CONDUIT INSTALLATION DETAILS)

NO SCALE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

E-85

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
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PROJECT ENGINEER
HIEU LUU

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ITS DEVELOPMENT

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CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1087	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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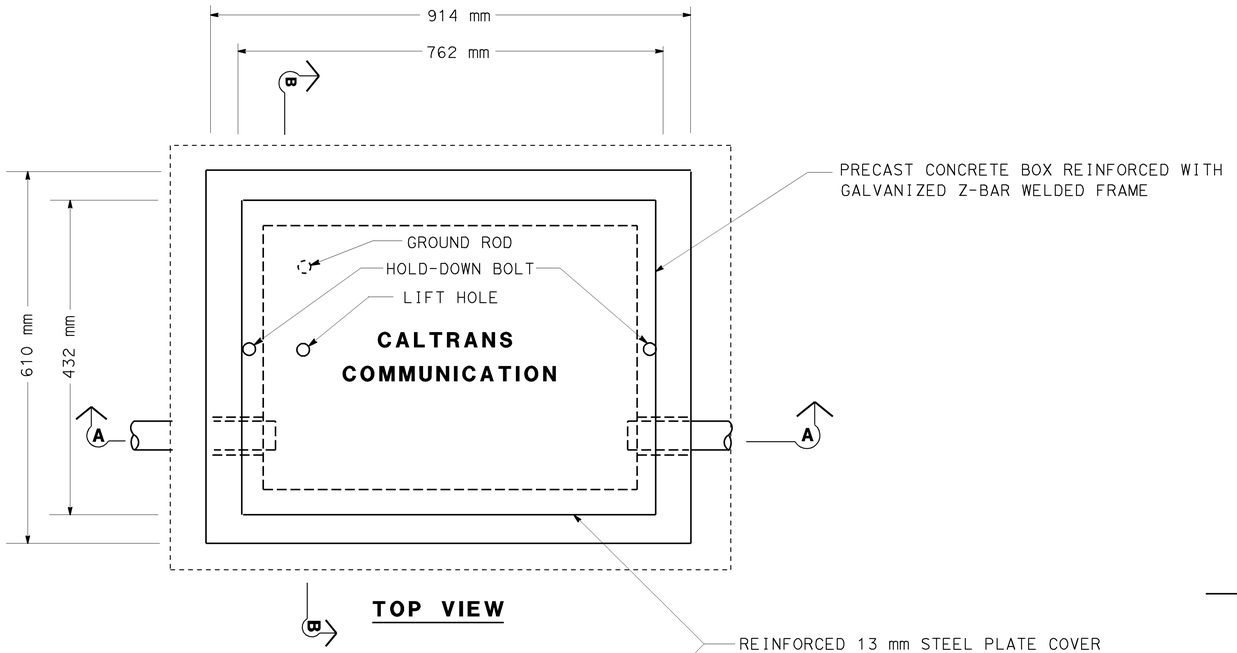
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

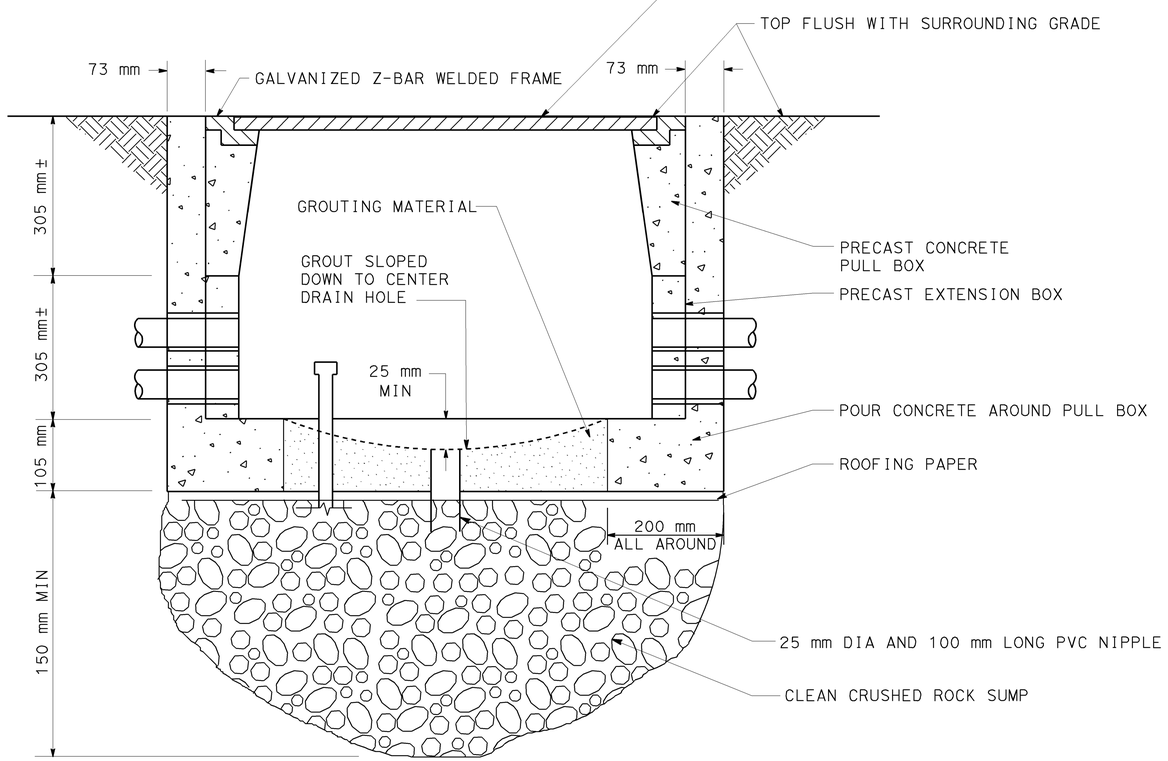
Caltrans Metric



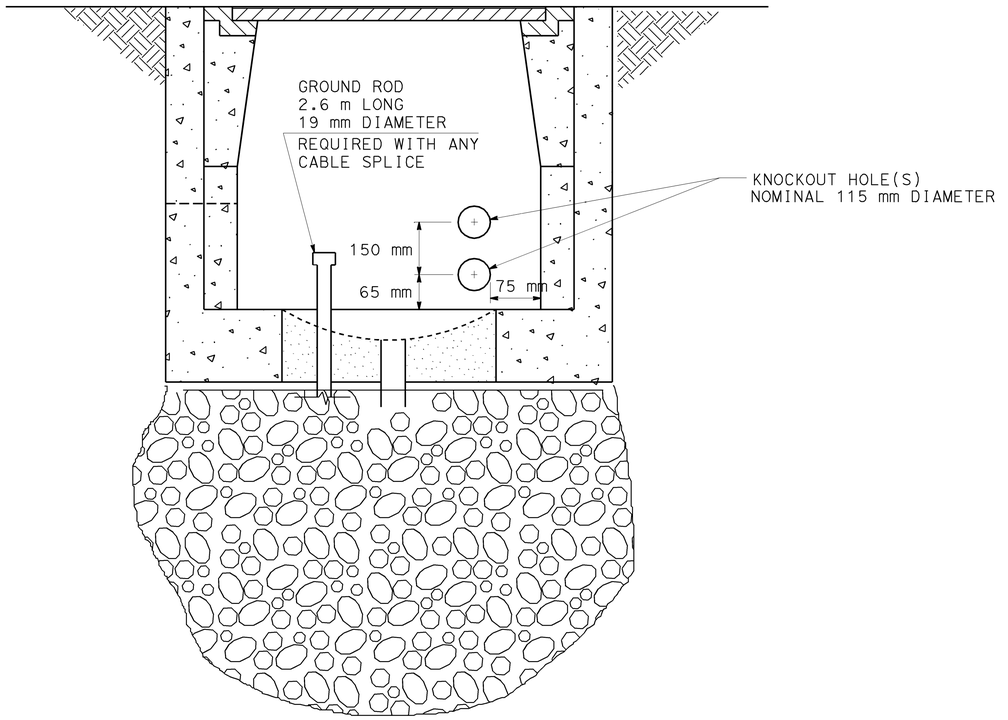
TOP VIEW

NOTES: (THIS SHEET ONLY)

1. FOR DETAILS NOT SHOWN SEE STANDARD PLAN ES-8.
2. CONDUITS SHOWN ARE FOR EXAMPLE ONLY. ADDITIONAL CONDUITS MAY BE REQURIED AS SHOWN ON THE PLAN SHEETS.
3. SEE SPECIAL PROVISIONS REGARDING HOLD-DOWN BOLTS FOR TRAFFIC COVERS.
4. CONDUITS SHALL EXTEND INTO THE PULL BOX A NOMINAL 50 mm FROM THE INSIDE WALL.



SECTION A-A



SECTION B-B

COMMUNICATION SYSTEM ROUTING
(COMMUNICATION PULL BOX)
NO SCALE

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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

E-86

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EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1088	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

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

2-2-04
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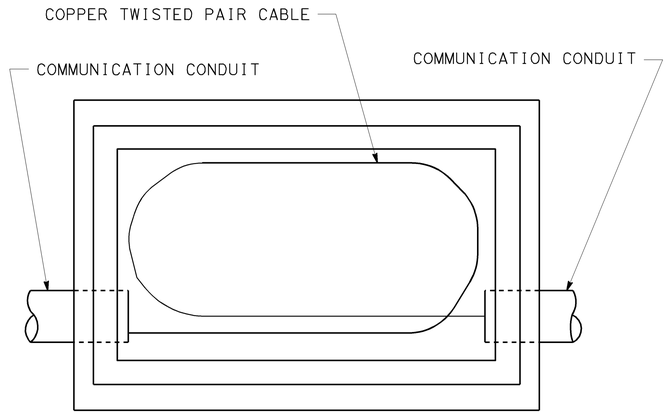
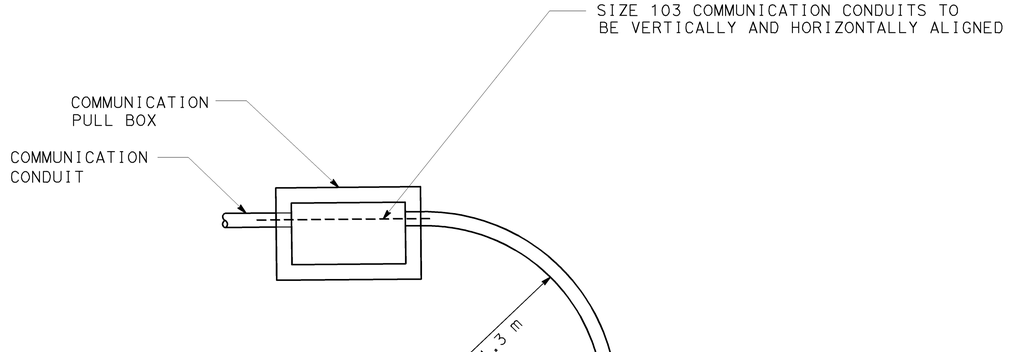
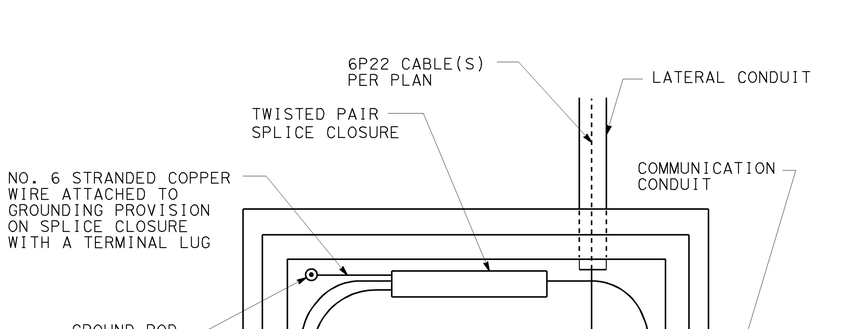
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



DETAIL A



DETAIL C



DETAIL B

NOTES: (THIS SHEET ONLY)

1. DIMENSIONS VARY ACCORDING TO SIZE OF CONDUIT, ETC. BUT THE MINIMUM BEND RADIUS OF 1.3 m SHALL BE MAINTAINED ON ALL CONDUITS CONTAINING FIBER OPTIC CABLE AND SIX TIMES THE CONDUIT DIAMETER FOR ALL OTHER CONDUITS.
2. ALL BENDS SHALL BE FACTORY BENDS.
3. CONTRACTOR SHALL ADAPT CONDUIT STUBOUTS FOR SPECIFIC PROJECT REQUIREMENTS.
4. ADDITIONAL CONDUIT ENTRANCES AS REQUIRED.
5. CONDUITS SHALL EXTEND INTO THE PULLBOX A NOMINAL 50 mm FROM THE INSIDE WALL.

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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

COMMUNICATION SYSTEM ROUTING
(COMMUNICATION PULL BOX DETAILS)

NO SCALE

E-87

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1089	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

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PROJECT ENGINEER
HIEU LUU

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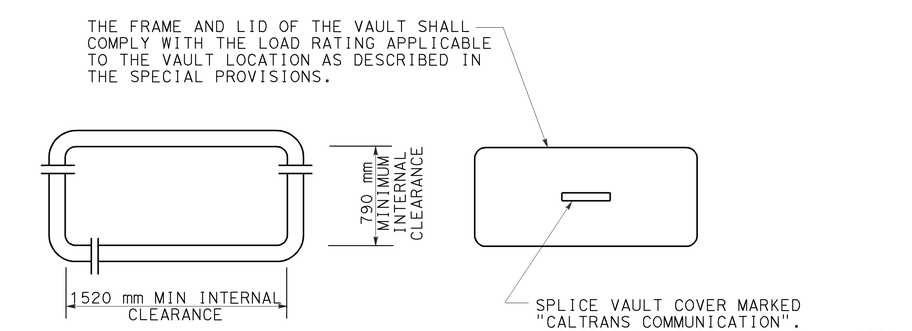
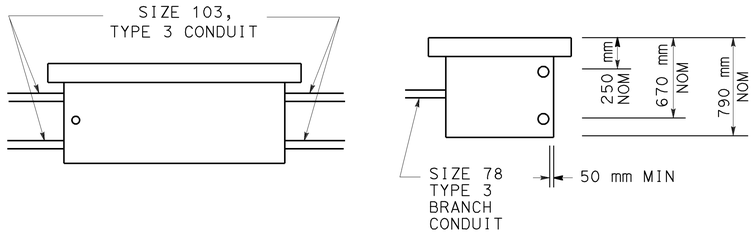
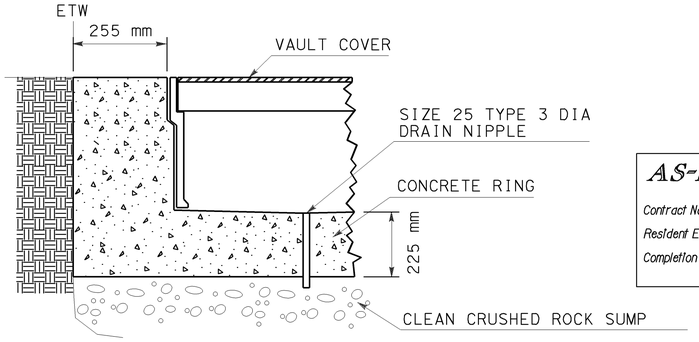


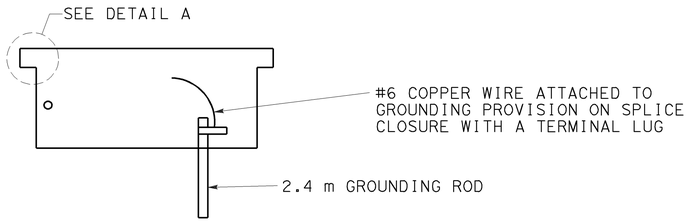


SPLICE VAULT DIMENSIONS



DETAIL A

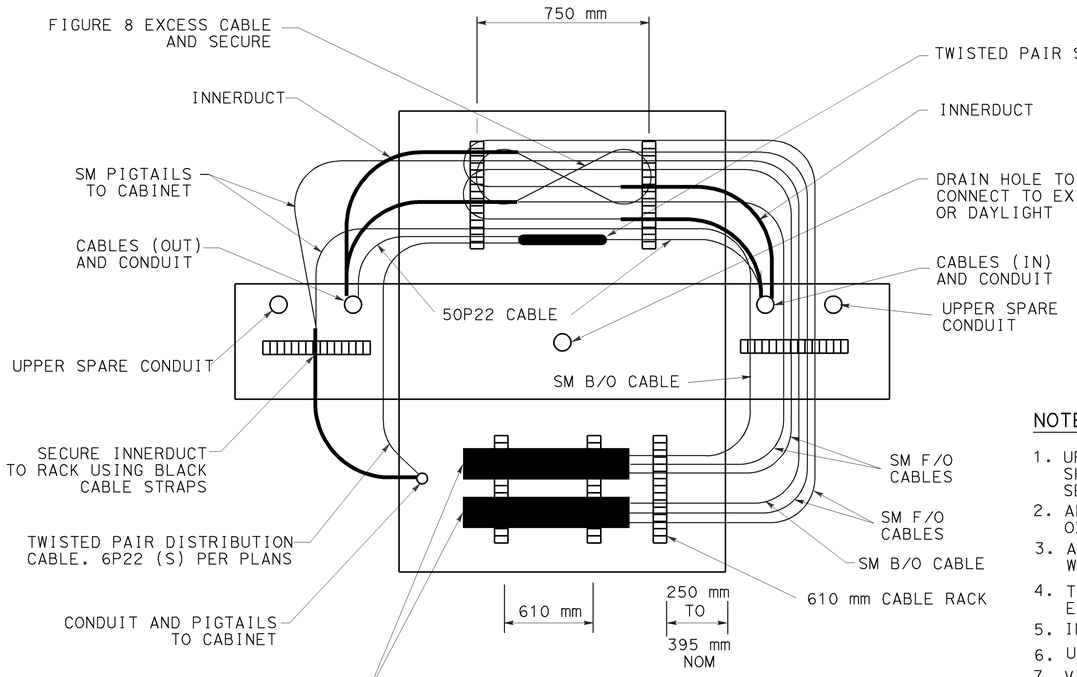
INSTALLATION IN CONCRETE PAVEMENT OR COMPACTED EARTH



SPLICE VAULT INSTALLATION

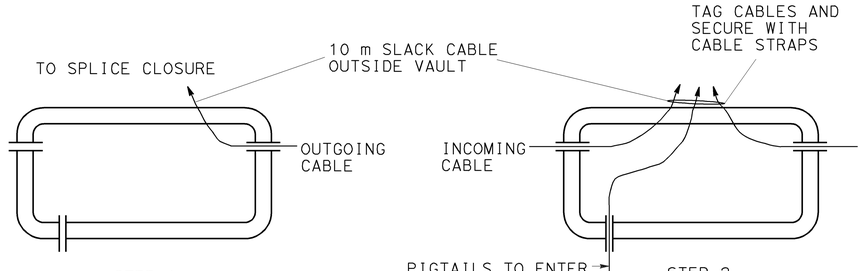
INSTALLATION NOTES:

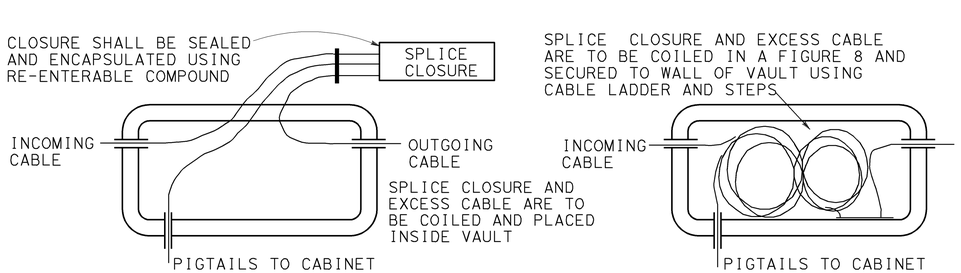
1. CONCRETE RING SHALL BE MINOR CONCRETE.
2. CONCRETE ENCASEMENT RING DIMENSION, D, TO BE EQUAL TO DESIGN PAVEMENT DEPTH.
3. PAVEMENT AND SUBGRADE TO BE AS DIRECTED BY THE ENGINEER.



CABLE INSTALLATION

TOP VIEW - WALLS FOLDED DOWN FOR CLARITY





SPLICE PROCEDURE

NOTES: (THIS SHEET ONLY)

1. UPON ACCEPTANCE OF THE WORK ALL CONDUITS SHALL BE SEALED WITH COMPATIBLE SEALANT MATERIAL
2. ALL GROUND CONNECTIONS SHALL BE COATED WITH OXIDATION PROHIBITING COMPOUND.
3. ALL CABLE STRAPS SHALL BE DESIGNED TO WITHSTAND ULTRA-VIOLET EXPOSURE.
4. THE VAULT SHALL BE CAULKED AFTER ALL KNOWN ENTRANCES HAVE BEEN MADE.
5. INSTALL ALL CABLES IN LOWER 103 mm CONDUIT.
6. UPPER SIZE 103 CONDUIT IS SPARE ONLY.
7. VAULT SHALL HAVE INTEGRAL BASE OR SHALL BE GROUTED PER STANDARD SPECIFICATION OF PULL BOXES
8. NUMBER OF SPLICE CLOSURES MAY VARY.

COMMUNICATION SYSTEM ROUTING
(SPLICE VAULT DETAILS)

NO SCALE

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E-88

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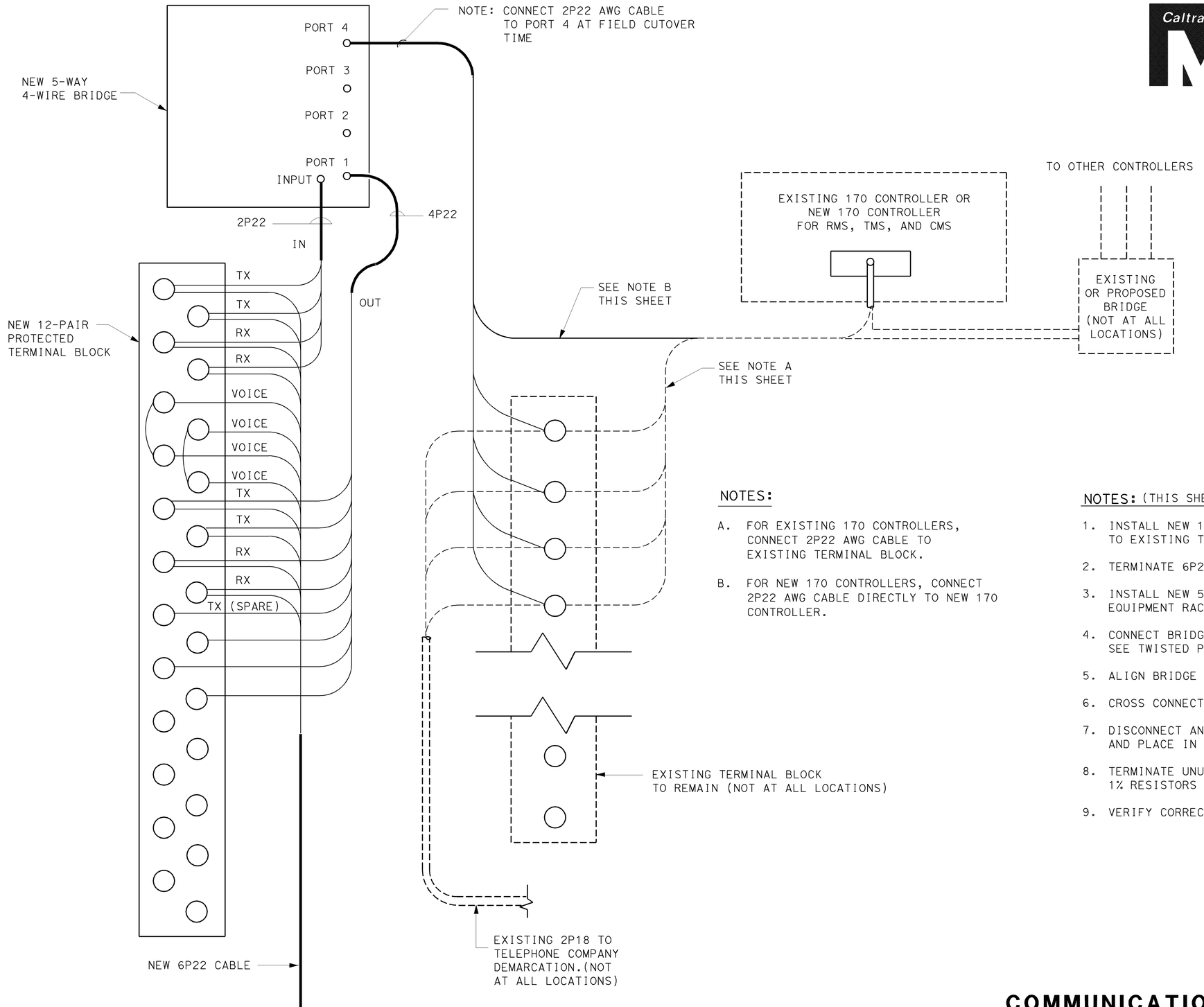

NOTES:

A. FOR EXISTING 170 CONTROLLERS, CONNECT 2P22 AWG CABLE TO EXISTING TERMINAL BLOCK.

B. FOR NEW 170 CONTROLLERS, CONNECT 2P22 AWG CABLE DIRECTLY TO NEW 170 CONTROLLER.

NOTES: (THIS SHEET ONLY)

1. INSTALL NEW 12-PAIR TERMINAL BLOCK ADJACENT TO EXISTING TERMINAL BLOCK.
2. TERMINATE 6P22 CABLE ON 12-PAIR TERMINAL BLOCK.
3. INSTALL NEW 5-WAY BRIDGE ON WALL OF CABINET OR EQUIPMENT RACK.
4. CONNECT BRIDGE TO 12-PAIR TERMINAL BLOCK AND CABLE, SEE TWISTED PAIR ASSIGNMENT TABLE FOR PAIRS TO BE USED.
5. ALIGN BRIDGE LEVELS PER CONTRACTORS TEST PLAN.
6. CROSS CONNECT VOICE (OW) PAIRS.
7. DISCONNECT AND LABEL EXISTING 2P18 TELCO CABLE AND COIL AND PLACE IN BOTTOM OF CABINET. CLEAN AND CAP EACH PAIR.
8. TERMINATE UNUSED PORTION OF BRIDGE WITH 600 OHMS 1% RESISTORS 1/10W OR GREATER.
9. VERIFY CORRECT OPERATION.

COMMUNICATION SYSTEM ROUTING
(170 CONTROLLER INTERFACE)

NO SCALE

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E-89

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1090	1697

Jacqueline C. Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
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- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

DATE	REVISED BY	DATE REVISED

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PROJECT ENGINEER
HIEU LUU

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

Jacqueline C. Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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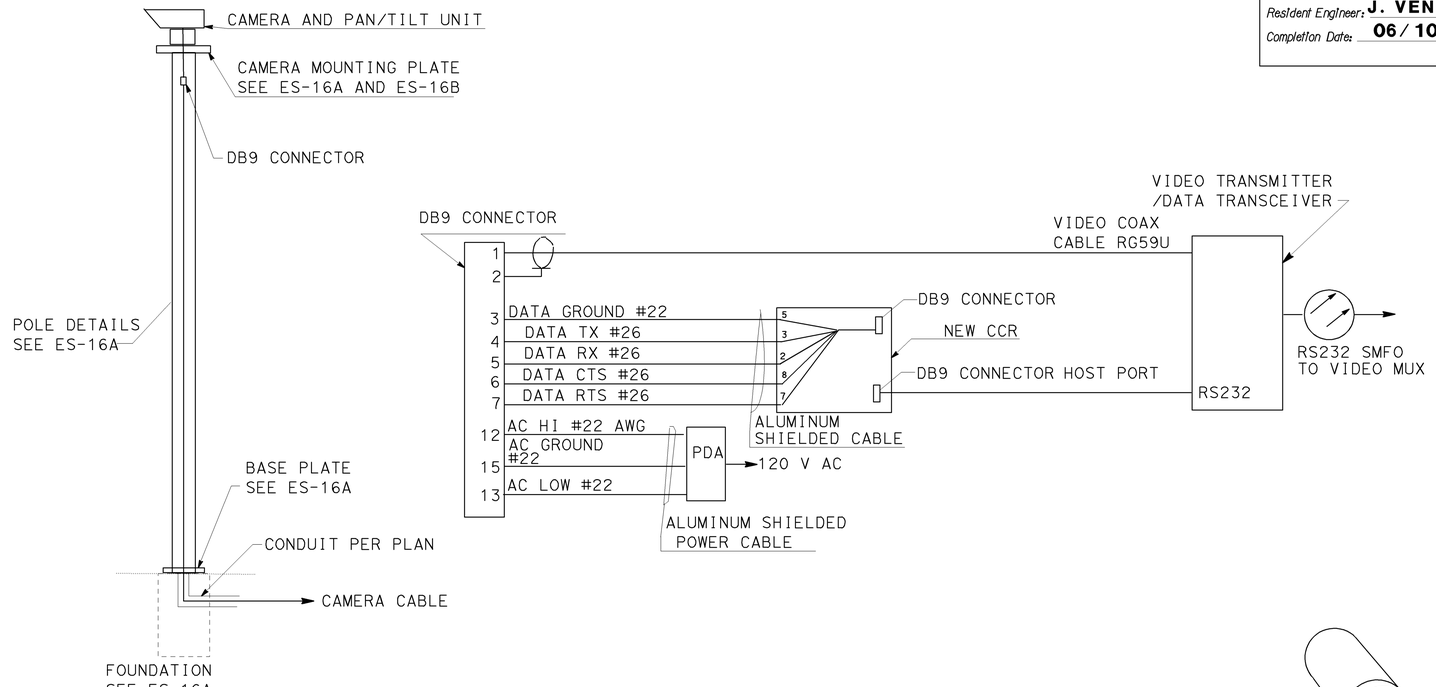
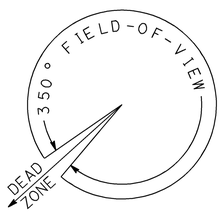


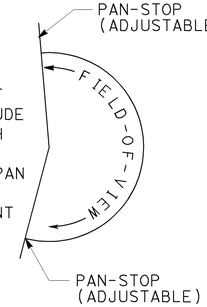
NOTES: (WIRING DIAGRAM)

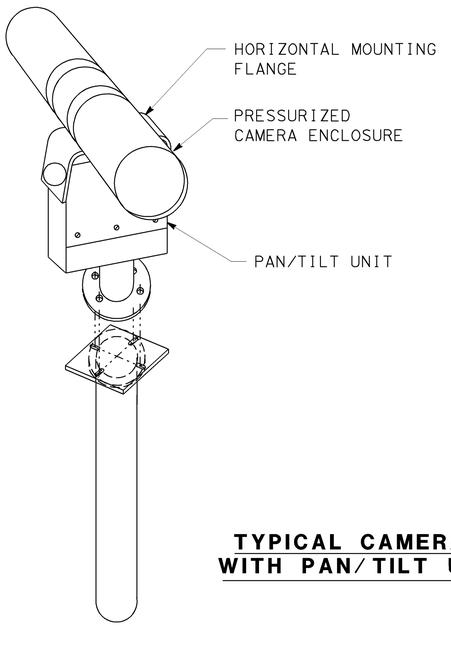
1. CONTRACTOR TO PROVIDE CABLE LENGTH FROM DB9 CONNECTOR AT THE CAMERA TO THEIR RESPECTIVE END POINTS AS SHOWN IN THIS SHEET.
2. ALL CABLES SHALL BE ALUMINUM SHIELDED TO PREVENT CROSS TALK.
3. IN THE CCTV CABINET, THE NUMBER IDENTIFIES THE THE SPECIFIC CONDUCTOR TO BE USED FOR THE INDICATED FUNCTION.
4. CONNECT ALL DRAIN WIRES OF SHIELDED-CONDUCTORS TO CABINET GROUND AT THE CAMERA CONTROL RECEIVERS.
5. INSTALL CONNECTORS IN ACCRODANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
6. WATERPROOF ALL CONNECTORS AND CABLES USING WATER-TIGHT GROMMETS, SEALING COMPOUNDS, AND TAPE.



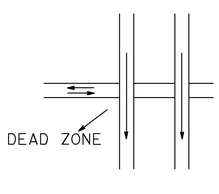
THE PAN/TILT SHALL BE POSITIONED SUCH THAT ALL IMPORTANT FEATURES ARE IN THE FIELD-OF-VIEW OF THE CAMERA. THE PAN IS LIMITED TO 350° FIELD-OF-VIEW AND HENCE HAS A 10° DEAD ZONE. ORIENT THE PAN/TILT UNIT SUCH THAT THE DEAD ZONE IS IN A DIRECTION WHERE VIEW OF IMPORTANT TRAFFIC FEATURES IS NOT REQUIRED.

PAN-STOPS ARE MECHANICAL OR ELECTRICAL STOPS WHICH LIMIT THE FIELD OF VIEW OF THE PAN-TILT UNIT TO EXCLUDE NON-TRAFFIC FEATURES WHICH ARE NOT TO BE VIEWED (EG, RESIDENTIAL HOUSING) THE PAN STOPS SHALL BE ADJUSTED AS DIRECTED BY THE RESIDENT ENGINEER

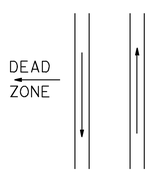




TYPICAL CAMERA WITH PAN/TILT UNIT



TYPICAL FREEWAY WITH CROSS STREET



TYPICAL FREEWAY WITHOUT CROSS STREET

COMMUNICATION SYSTEM ROUTING
(ELECTRICAL DIAGRAM FOR CCTV AND PAN/TILT UNIT)

NO SCALE

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07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1092	1697

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Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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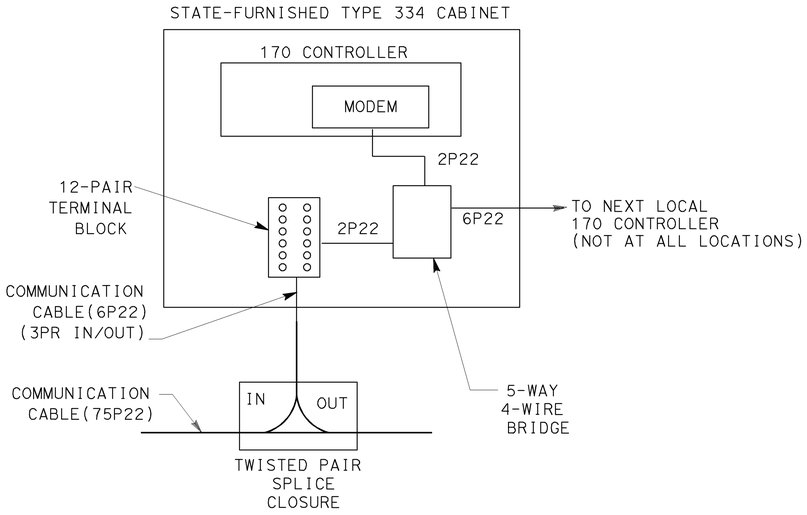
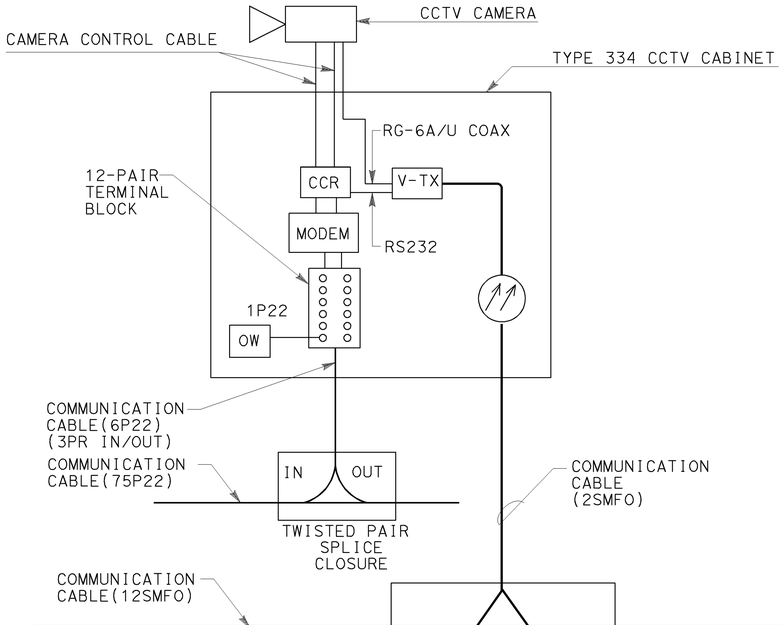
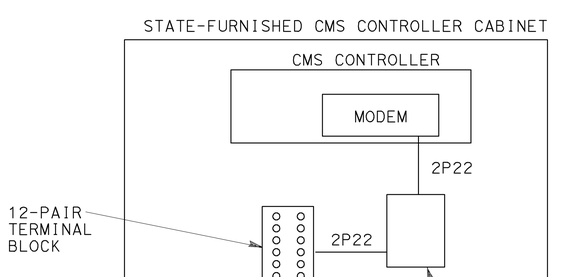


DETAIL A
TYPICAL 170 RMS/TMS CABINET



DETAIL C
TYPICAL CCTV WITH OPTICAL LINK



DETAIL B
TYPICAL CMS CABINET

ABBREVIATIONS: (THIS SHEET ONLY)

CCR - CAMERA CONTROL RECEIVER (COHU ER3490 OR COMPATIBLE)
CCTV - CAMERA (COHU 3855-1000/PED/D7 OR COMPATIBLE)
COAX - COAXIAL CABLE
OW - ORDER WIRE
V-TX - VIDEO TRANSCEIVER
IP22 - 1 TWISTED PAIR 22 CABLE

AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

COMMUNICATION SYSTEM ROUTING
(RMS/TMS/CMS/CCTV INTERFACES)
NO SCALE

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E-91

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HIEU LUU

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07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1093	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. TAN
No. E015611
Exp. 12/31/05
ELECTRICAL
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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

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LEGEND

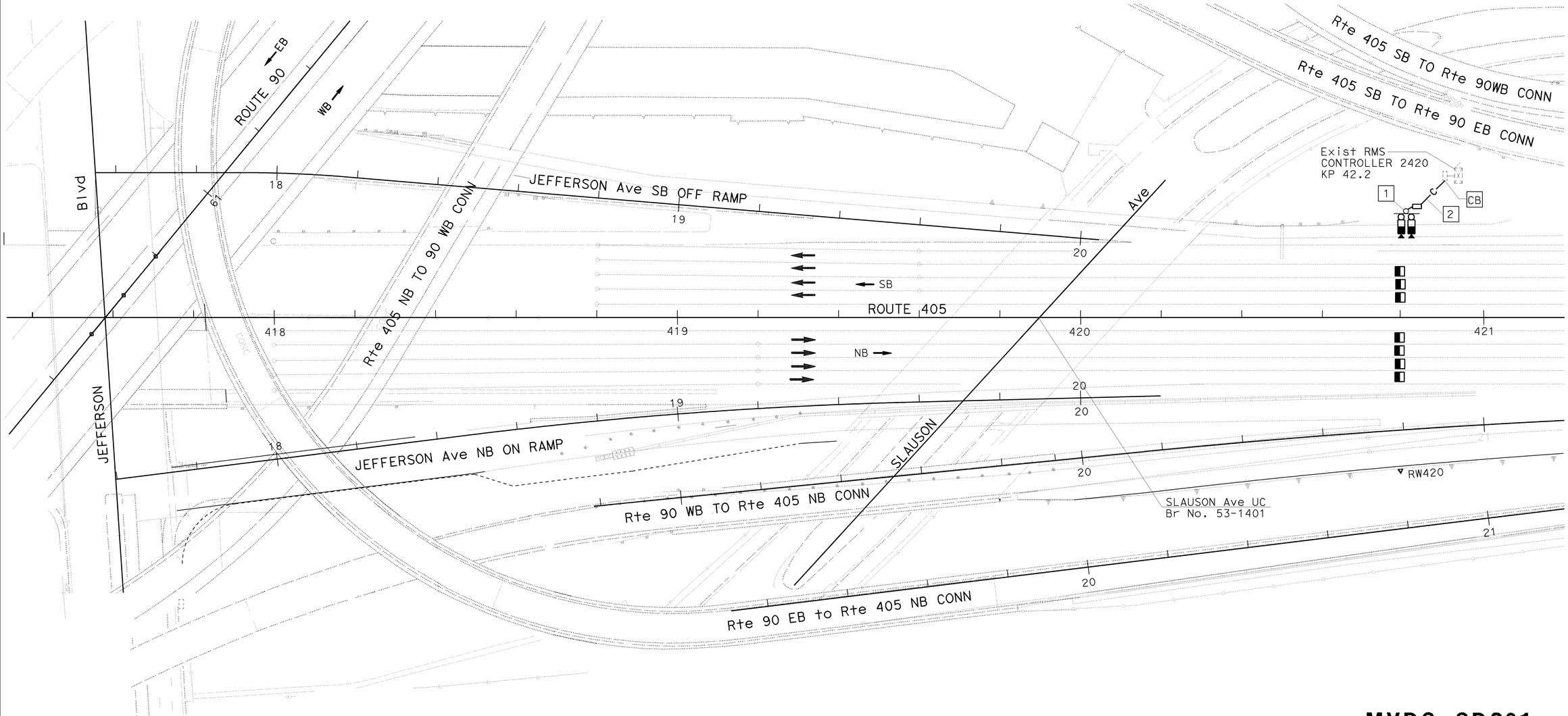
MICROWAVE VEHICLE DETECTION SENSOR
MVDS DECTION ZONE

ABBREVIATIONS:

MVDS MICROWAVE VEHICLE DETECTION SENSOR ON MODIFIED TYPE 15 POLE
MVDSCC MICROWAVE VEHICLE DETECTION CONTROL CABLE

NOTES: (THIS SHEET ONLY)

1. INSTALL MVDS ON MODIFIED TYPE 15 LIGHTING STANDARD. SEE SHEET E-95 FOR POLE FOUNDATION.
2. INSTALL 53C, 2 MVDSCC.



MVDS SD261
SCALE 1:500

E-92

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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
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REGISTERED ELECTRICAL ENGINEER

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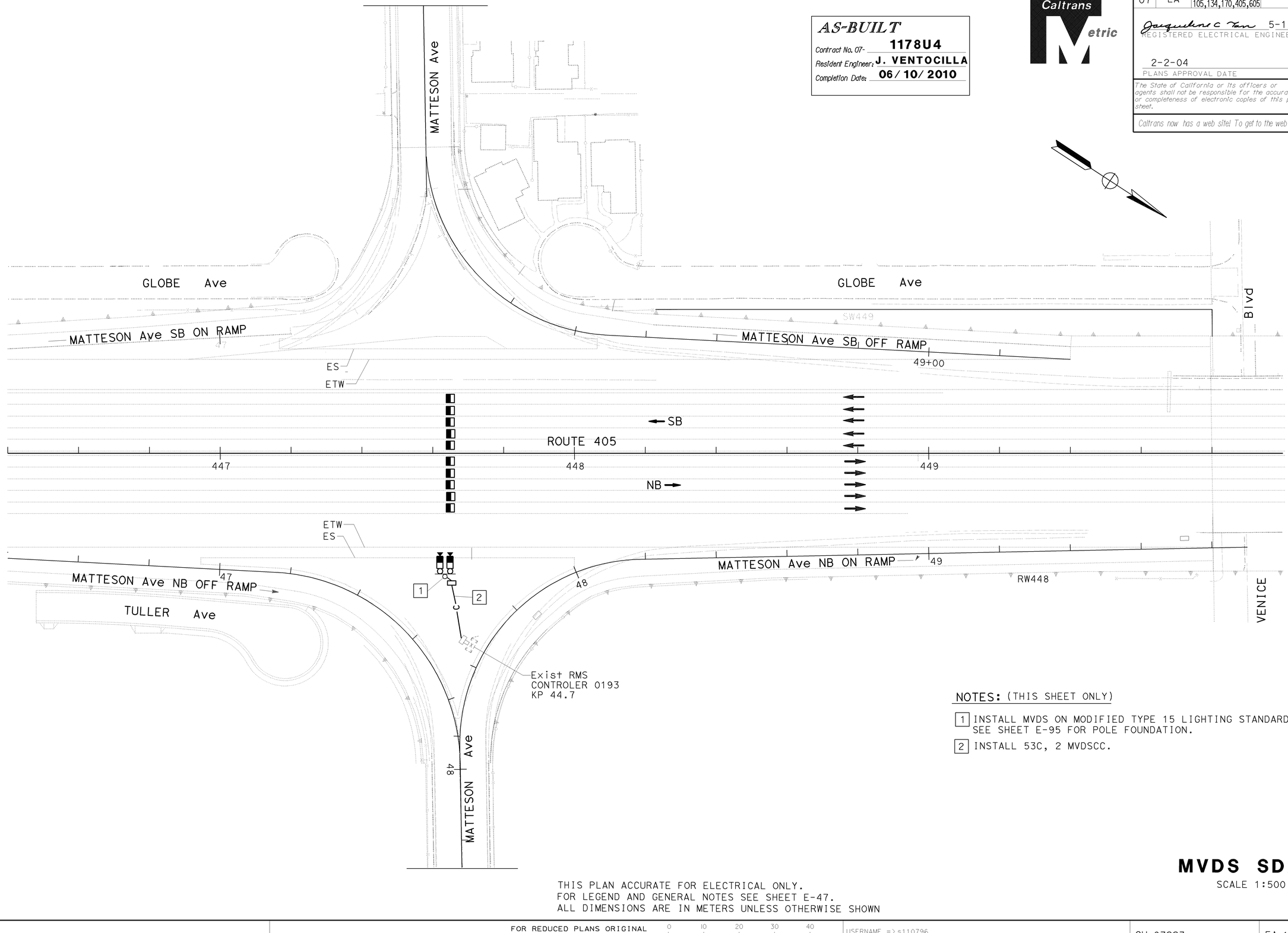

NOTES: (THIS SHEET ONLY)

1. INSTALL MVDS ON MODIFIED TYPE 15 LIGHTING STANDARD. SEE SHEET E-95 FOR POLE FOUNDATION.
2. INSTALL 53C, 2 MVDSCC.

THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MVDS SD278

SCALE 1:500

E-93

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu140.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:50

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1095	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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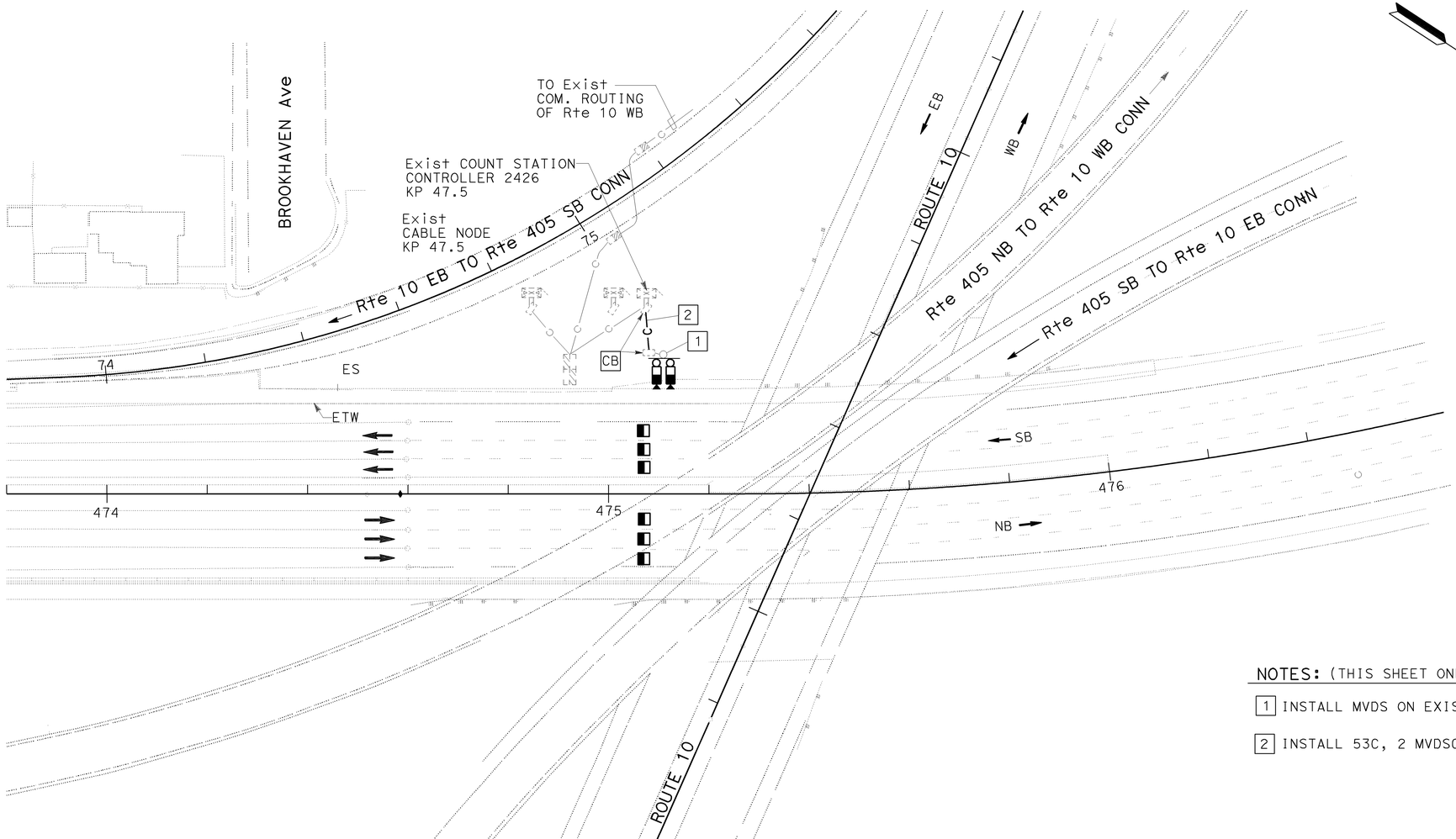
AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010



NOTES: (THIS SHEET ONLY)

1 INSTALL MVDS ON EXIST CCTV CAMERA POLE.

2 INSTALL 53C, 2 MVDSCC.

FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.
THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MVDS SD295
SCALE 1:500

E-94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

PROJECT ENGINEER: HIEU LUU
CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN
DATE REVISED BY:
DATE REVISED:

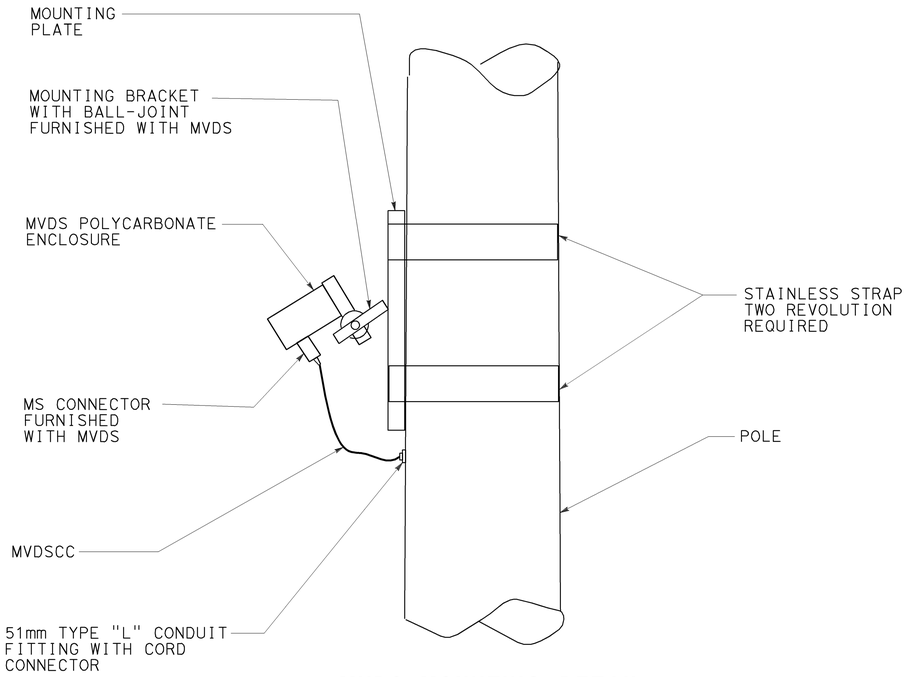
LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:50

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

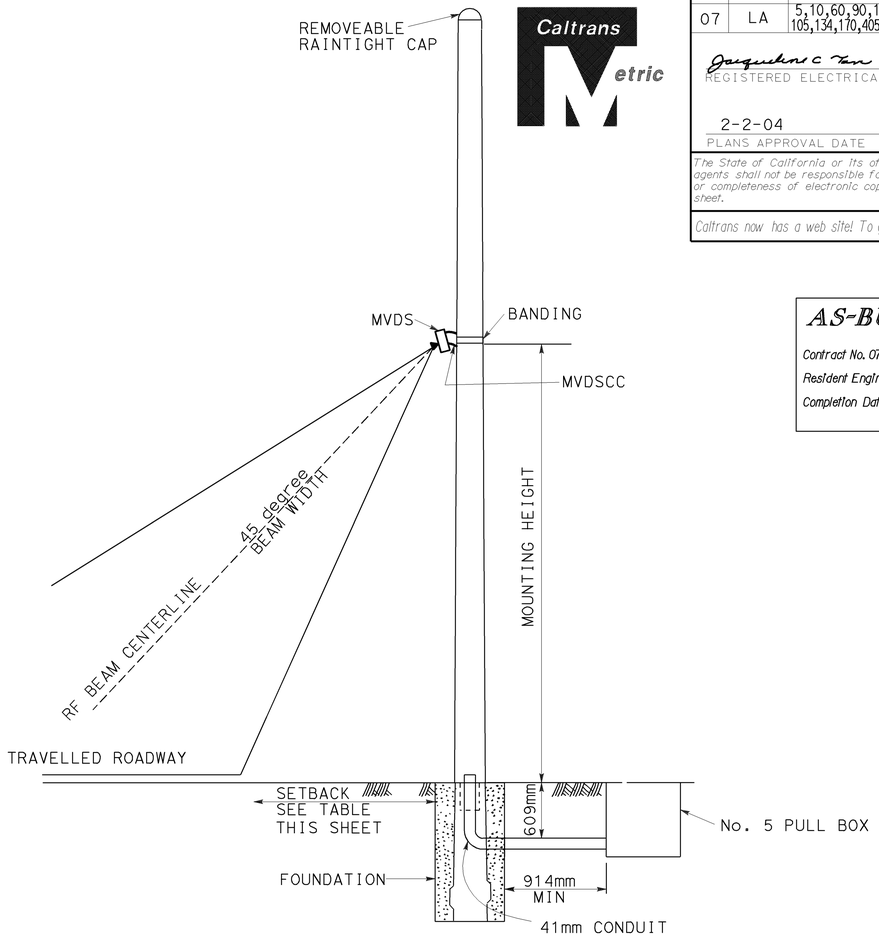
USERNAME => s110796
DGN FILE => 71178uu141.dgn

CU 07223

EA 1178U1



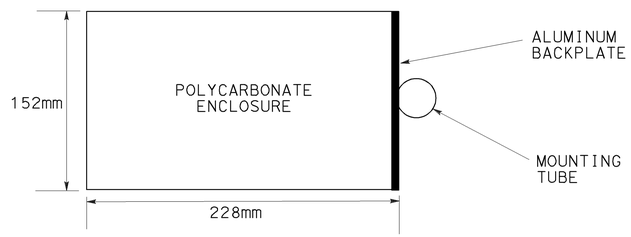
MVDS MOUNTING DETAIL



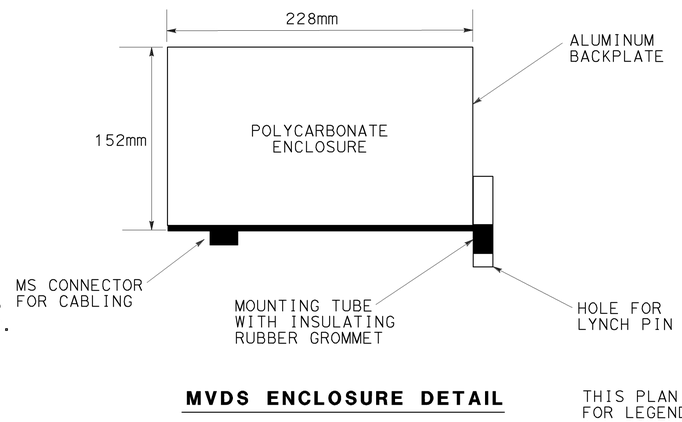
MODIFIED TYPE 15 POLE INSTALLATION

(SEE NOTE 1, 2 AND 3 THIS SHEET)

TOP VIEW



SIDE VIEW



MVDS ENCLOSURE DETAIL

NOTES:(THIS SHEET)

1. CUSTOM TYPE 15 LIGHTING STANDARD LUMINAIRE ARM CONNECTION SHALL BE OMITTED. SURFACE OF POLE SHALL HAVE NO HOLES EXCEPT FOR HANDHOLE AT BASE OF POLE.
2. FOR MODIFIED TYPE 15 POLE FOUNDATION SEE STANDARD PLANS ES-6A.
3. FOR MODIFIED TYPE 15 POLE INSTALL SLIP BASE INSERT. SEE STANDARD PLANS ES-6C.

SETBACK	MOUNTING HEIGHT
4.5	5.0
6.0	5.0
7.3	6.0
9.0	7.0

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MVDS
(POLE INSTALLATION DETAILS)

NO SCALE

E-95

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1096	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
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- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	CRAIG SCHNEIDER	
CHECKED BY	JACQUELINE C TAN	
PROJECT ENGINEER	HIEU LUU	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

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

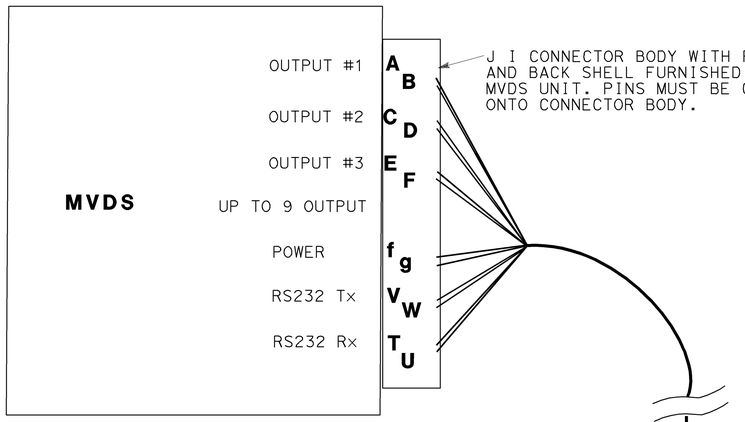
USERNAME => s110796
DGN FILE => 71178uu142.dgn

CU 07223

EA 1178U1

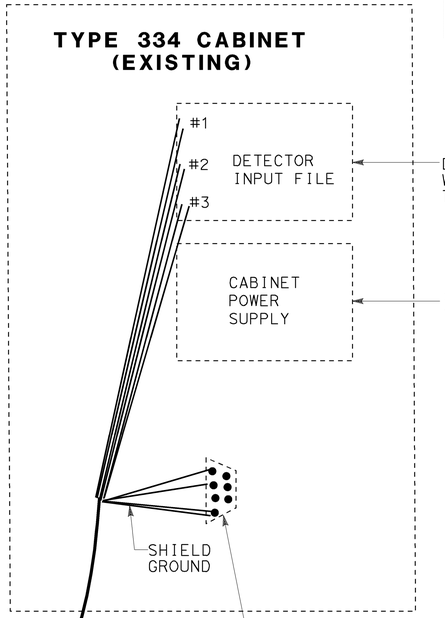
LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:50

MVDS WIRING INSTALLATION DETAIL



J I CONNECTOR BODY WITH PINS AND BACK SHELL FURNISHED WITH MVDS UNIT. PINS MUST BE CRIMPED ONTO CONNECTOR BODY.

MULTICONDUCTOR CABLE INCLUDES 12P20 OR 12P22, WITH MVDS OVERALL FOIL OR BRAIDED SHIELD, IN A PVC JACKET SUITED FOR OUTDOOR INSTALLATION, MAXIMUM 259 m LONG. OVERALL SHIELD TO GROUND ROD IN CABINET ONLY.

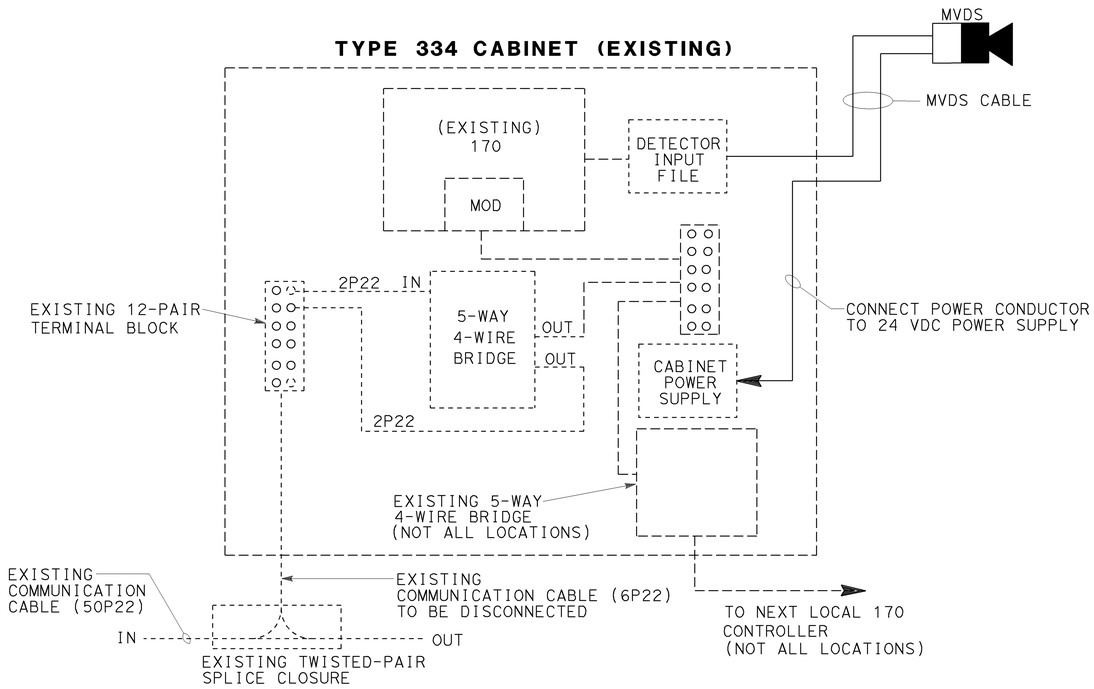


DETECTOR OUTPUT WIRES CONNECTED TO INPUT FILE.

POWER WIRES CONNECTED TO CABINET POWER SUPPLY.

RS323 CONNECTOR. CONNECTOR AND PINS FURNISHED WITH MVDS UNIT. PINS MUST BE CRIMPED ONTO WIRES AND INSERTED INTO CONNECTOR. CONNECTOR MUST BE MOUNTED ON A SUPPORTING PANEL.

TEMPORARY MVDS STATION



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FOR LEGEND AND GENERAL NOTES SEE SHEET E-47
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1097	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

MVDS (INSTALLATION DETAILS)

NO SCALE

E-96

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		
PROJECT ENGINEER	HIEU LUU	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	ITS DEVELOPMENT	

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:50

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

USERNAME => s110796
DGN FILE => 71178uu143.dgn

CU 07223 EA 1178U1

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUCTOR TYPE	FUNCTION	RUN			
		42			
75P22 CABLE	VOICE/DATA	1(E)			
6P22 CABLE	VOICE/DATA				
48SMFO CABLE	VIDEO/DATA		1(E)		
24SMFO CABLE	VIDEO/DATA			1(E)	
12SMFO CABLE	VIDEO DISTRIBUTION			1(E)	
	INNERDUCT (SIZE 32)				
	CONDUIT SIZE	103(E)			103(E)

GENERAL NOTE: (THIS SHEET ONLY)

1. CMS No. SD 245, CCTV CAMERA AND CMS No. MA019 SHALL BE INSTALLED AND TESTED FOR THE OPERATION PRIOR TO SOUNDWALL AND WIDENING CONSTRUCTION OF THE PROJECT. REFER TO SHEETS E-98, E-99, E-100 AND E-101.

PROJECT NOTES: (THIS SHEET ONLY)

8 78C, (2)6P22, 2 SMFO, INNERDUCT (SIZE 32)

9 78C, (2)6P22, 2 SMFO, INNERDUCT (SIZE 32), 4P18

10 78C, 6#1/0, 4#4

11 INSTALL CONDUITS IN THE SAME TRENCH.

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1098	1697

Jacqueline C Tan 5-15-03
REGISTERED CIVIL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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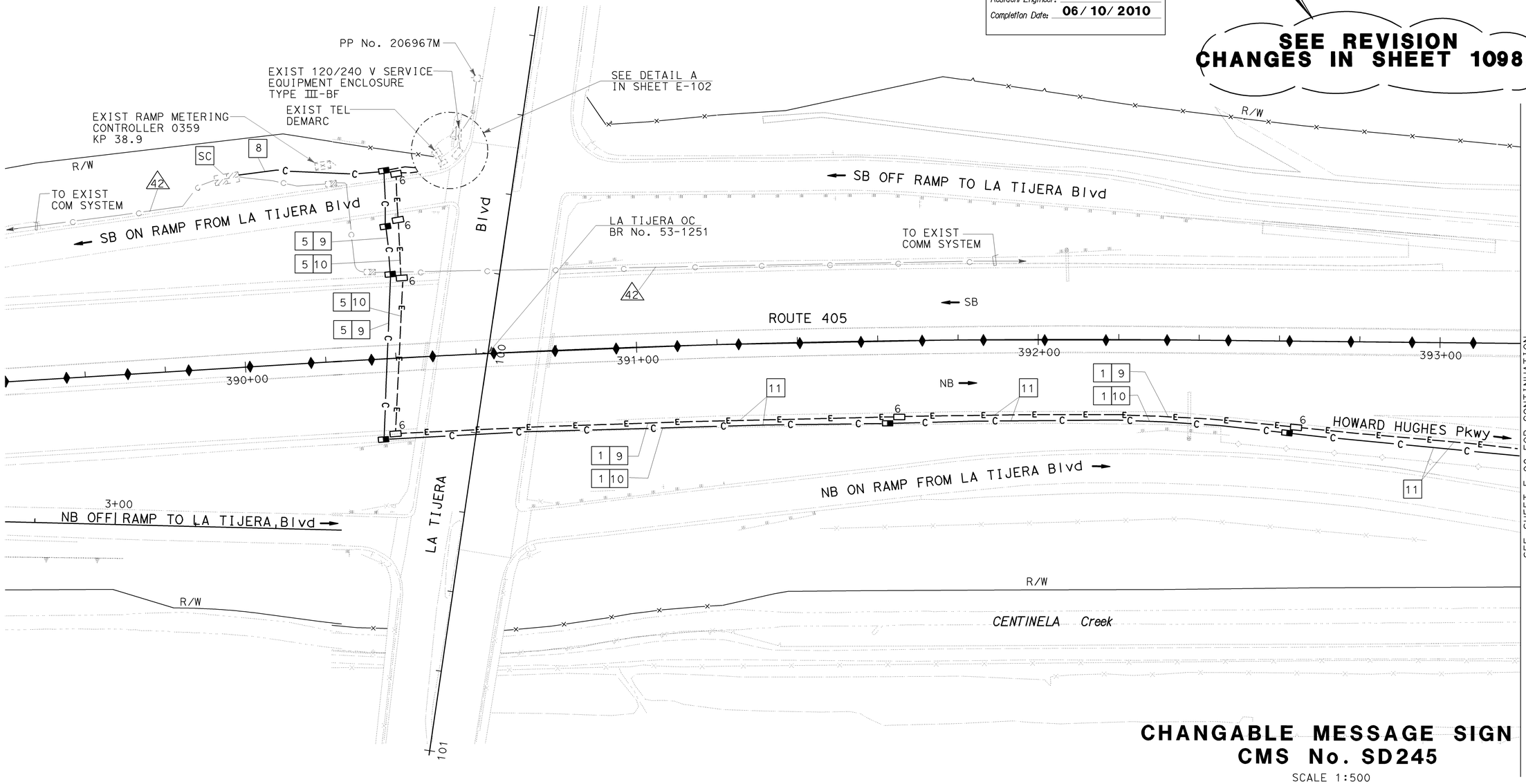
SEE REVISION CHANGES IN SHEET 1098A



CHANGABLE MESSAGE SIGN
CMS No. SD245

SCALE 1:500

E-97

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	CHECKED BY	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT
PROJECT ENGINEER HIEU LUU

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

USERNAME => s111708
DGN FILE => 71178uu144.dgn

CU 07223 EA 1178U1

LAST REVISION 00-00-00 DATE PLOTTED => 11-APR-2011 TIME PLOTTED => 14:44

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUCTOR TYPE	FUNCTION	RUN 42			
75P22 CABLE	VOICE/DATA	1(E)			
6P22 CABLE	VOICE/DATA				
48SMFO CABLE	VIDEO/DATA		1(E)		
24SMFO CABLE	VIDEO/DATA			1(E)	
12SMFO CABLE	VIDEO DISTRIBUTION			1(E)	
	INNERDUCT (SIZE 32)				
	CONDUIT SIZE	103(E)			103(E)

GENERAL NOTE: (THIS SHEET ONLY)

1. CMS No. SD 245, CCTV CAMERA AND CMS No. MA019 SHALL BE INSTALLED AND TESTED FOR THE OPERATION PRIOR TO SOUNDWALL AND WIDENING CONSTRUCTION OF THE PROJECT. REFER TO SHEETS E-98, E-99, E-100 AND E-101.

PROJECT NOTES: (THIS SHEET ONLY)

8 78C, (2)6P22, 2 SMFO, INNERDUCT (SIZE 32)

9 78C, (2)6P22, 2 SMFO, INNERDUCT (SIZE 32), 4P18

10 78C, 4#2, 4#4

11 INSTALL CONDUITS IN THE SAME TRENCH.

AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1098A	1697

REGISTERED CIVIL ENGINEER 5-15-03

2-2-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JACQUELINE C. TAN No. E01-5611 Exp. 12/31/05 ELECTRICAL STATE OF CALIFORNIA

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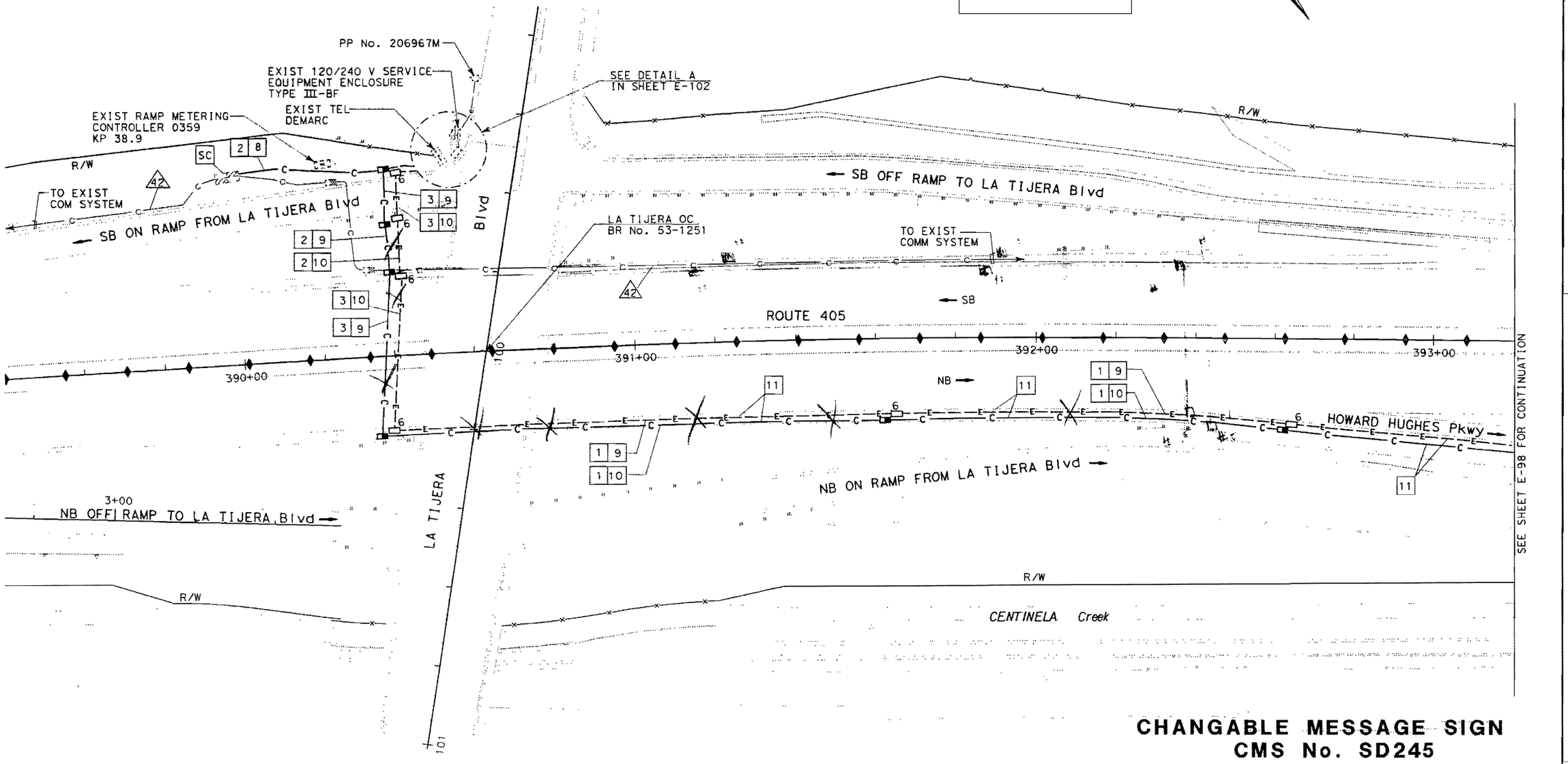

CHANGABLE MESSAGE SIGN
CMS No. SD245

SCALE 1:500

2 REVISED PER ADDENDUM NO. 2 DATED MAY 14, 2004

E-97A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

PROJECT ENGINEER HIEU LUU

CALCULATED/DESIGNED BY | CHECKED BY | DATE | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 13-MAY-2004 TIME PLOTTED => 04:58

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USERNAME => trienord
DGN FILE => 71178uu144.odd

CU 07223 | EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1099	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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Caltrans Metric

GENERAL NOTE: (THIS SHEET ONLY)

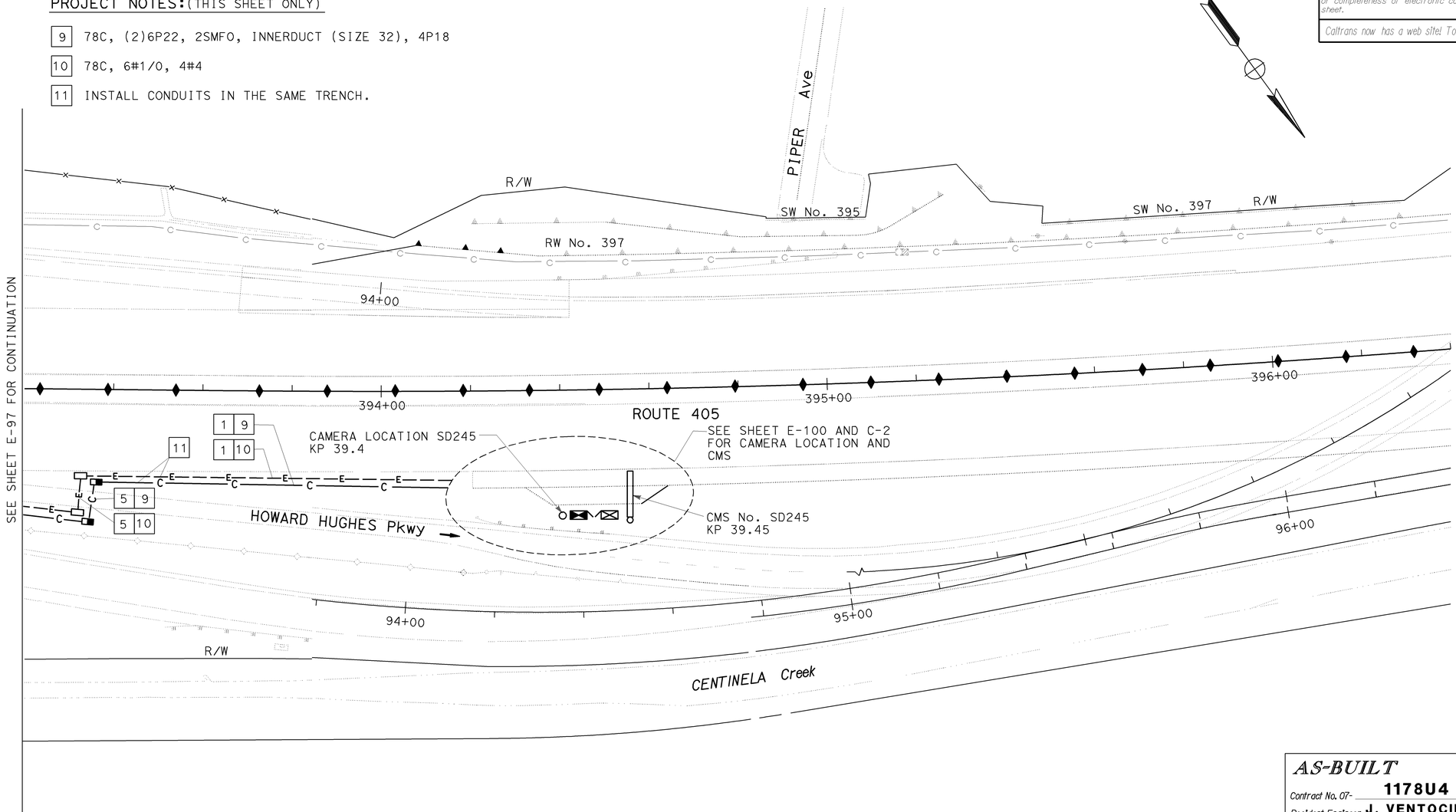
1. CMS No. SD 245, CCTV CAMERA AND CMS No. MA019 SHALL BE INSTALLED AND TESTED FOR THE OPERATION PRIOR TO SOUNDWALL AND WIDENING CONSTRUCTION OF THE PROJECT. REFER TO SHEETS E-99, E-100 AND E-101.

PROJECT NOTES: (THIS SHEET ONLY)

9 78C, (2)6P22, 2SMFO, INNERDUCT (SIZE 32), 4P18

10 78C, 6#1/0, 4#4

11 INSTALL CONDUITS IN THE SAME TRENCH.



AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE REVISION CHANGES IN SHEET 1099A

CMS No. SD245
CCTV CAMERA SD245

SCALE 1:500

E-98

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

PROJECT ENGINEER HIEU LUU
CALCULATED/DESIGNED BY HIEU LUU
CHECKED BY JACQUELINE TAN
DATE REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 11-APR-2011
TIME PLOTTED => 14:44

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s111708
DGN FILE => 71178uu145.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1099	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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GENERAL NOTE: (THIS SHEET ONLY)

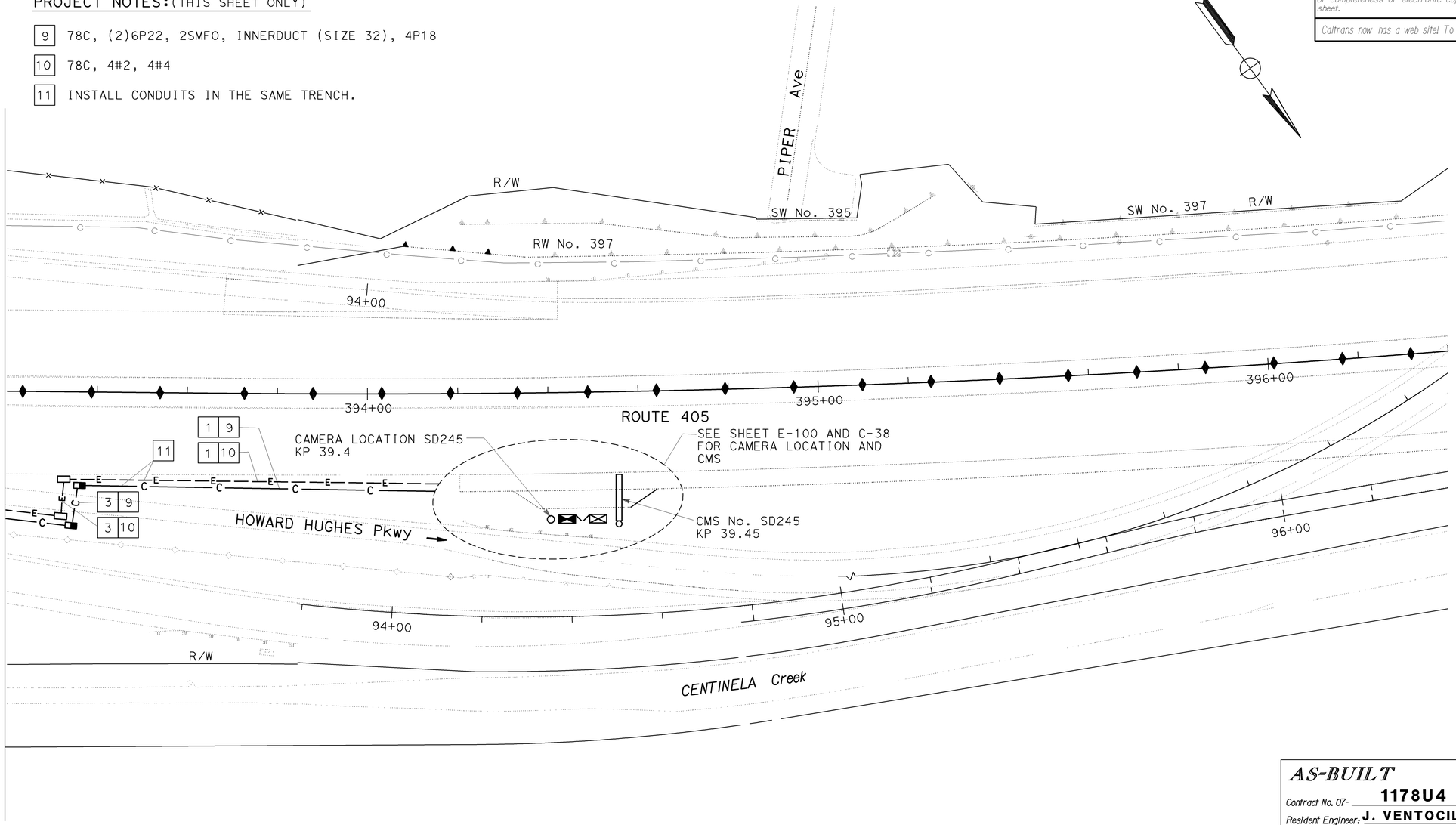
1. CMS No. SD 245, CCTV CAMERA AND CMS No. MA019 SHALL BE INSTALLED AND TESTED FOR THE OPERATION PRIOR TO SOUNDWALL AND WIDENING CONSTRUCTION OF THE PROJECT. REFER TO SHEETS E-99, E-100 AND E-101.

PROJECT NOTES: (THIS SHEET ONLY)

9 78C, (2)6P22, 2SMFO, INNERDUCT (SIZE 32), 4P18

10 78C, 4#2, 4#4

11 INSTALL CONDUITS IN THE SAME TRENCH.



AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

2 **REVISED PER ADDENDUM NO. 2 DATED MAY 14, 2004**

CMS No. SD245
CCTV CAMERA SD245
SCALE 1:500

E-98A

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: HIEU LUU

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

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu145a.dgn

CU 07223

EA 1178U1

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:50

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1100	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE REVISION CHANGES IN SHEET 1100A

GENERAL NOTE: (THIS SHEET ONLY)

1. CMS No. SD 245, CCTV CAMERA AND CMS No. MA019 SHALL BE INSTALLED AND TESTED FOR THE OPERATION PRIOR TO SOUNDWALL AND WIDENING CONSTRUCTION OF THE PROJECT. REFER TO SHEETS E-98, E-100 AND E-101.

NOTES: (THIS SHEET ONLY)

8 78C, 6#1/0, 2#8

9 78C, 6P22, 4P18

10 41C, 6P22

11 41C, 4P18

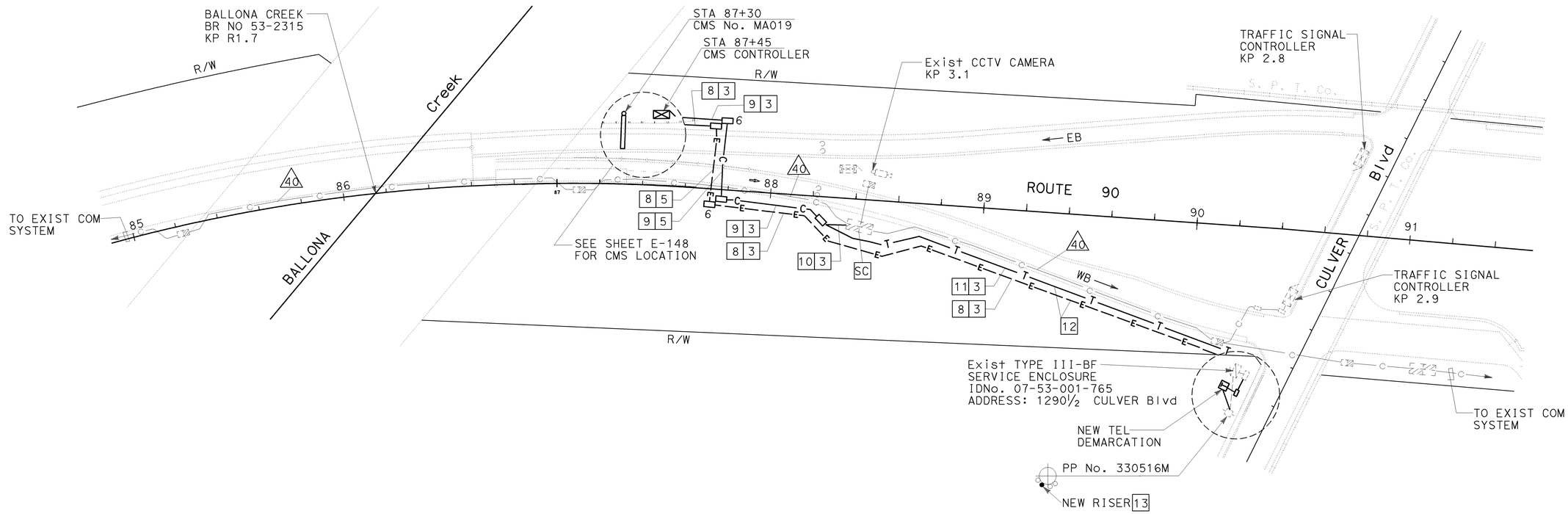
12 INSTALL CONDUITS IN THE SAME TRENCH

13 INSTALL 3"C TYPE H ON SERVICE POLE PER TELEPHONE COMPANY REQUIREMENTS (WIRES BY OTHERS)

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN △40			
50P22 CABLE	VOICE/DATA	1(E)			
24SMFO CABLE	VOICE/DATA		1(E)		
12SMFO CABLE	VIDEO DISTRIBUTION			1(E)	
INNERDUCT(SIZE 32)			1(E)	1(E)	
CONDUIT SIZE		103(E)			103(E)

(E) EXISTING CONDUIT OR CONDUCTORS



CMS No. MA019
SCALE 1:1000

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

E-99

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ITS DEVELOPMENT

PROJECT ENGINEER: HIEU LUU

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

LAST REVISION 00-00-00 DATE PLOTTED => 11-APR-2011 TIME PLOTTED => 14:44

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s111708
DGN FILE => 71178uu146.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1100A	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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2 Caltrans Metric

AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

GENERAL NOTE: (THIS SHEET ONLY)

1. CMS No. SD 245, CCTV CAMERA AND CMS No. MA019 SHALL BE INSTALLED AND TESTED FOR THE OPERATION PRIOR TO SOUNDWALL AND WIDENING CONSTRUCTION OF THE PROJECT. REFER TO SHEETS E-98, E-100 AND E-101.

NOTES: (THIS SHEET ONLY)

[8] 78C, 4#2, 2#6

[9] 78C, 6P22, 4P18

[10] 41C, 6P22

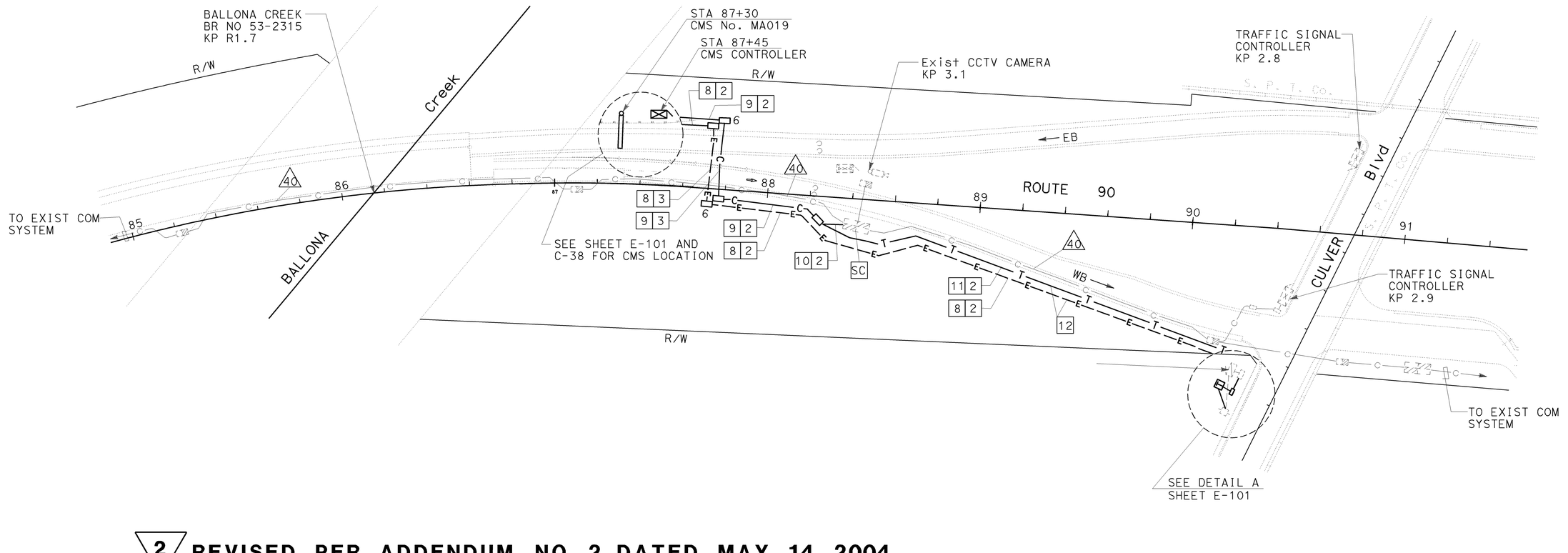
[11] 41C, 4P18

[12] INSTALL CONDUITS IN THE SAME TRENCH

[13] INSTALL 3"C TYPE H ON SERVICE POLE PER TELEPHONE COMPANY REQUIREMENTS (WIRES BY OTHERS)

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)					
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN △40			
50P22 CABLE	VOICE/DATA	1(E)			
24SMFO CABLE	VOICE/DATA		1(E)		
12SMFO CABLE	VIDEO DISTRIBUTION			1(E)	
INNERDUCT(SIZE 32)			1(E)	1(E)	
CONDUIT SIZE		103(E)			103(E)

(E) EXISTING CONDUIT OR CONDUCTORS



2 **REVISED PER ADDENDUM NO. 2 DATED MAY 14, 2004**

CMS No. MA019

SCALE 1:1000

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-47.

E-99A

DATE	REVISED BY	DATE REVISED
	HIEU LUU	JACQUELINE TAN

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN
PROJECT ENGINEER: HIEU LUU

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

LAST REVISION 00-00-00
DATE PLOTTED => 22-MAR-2011
TIME PLOTTED => 12:50

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu146a.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1101	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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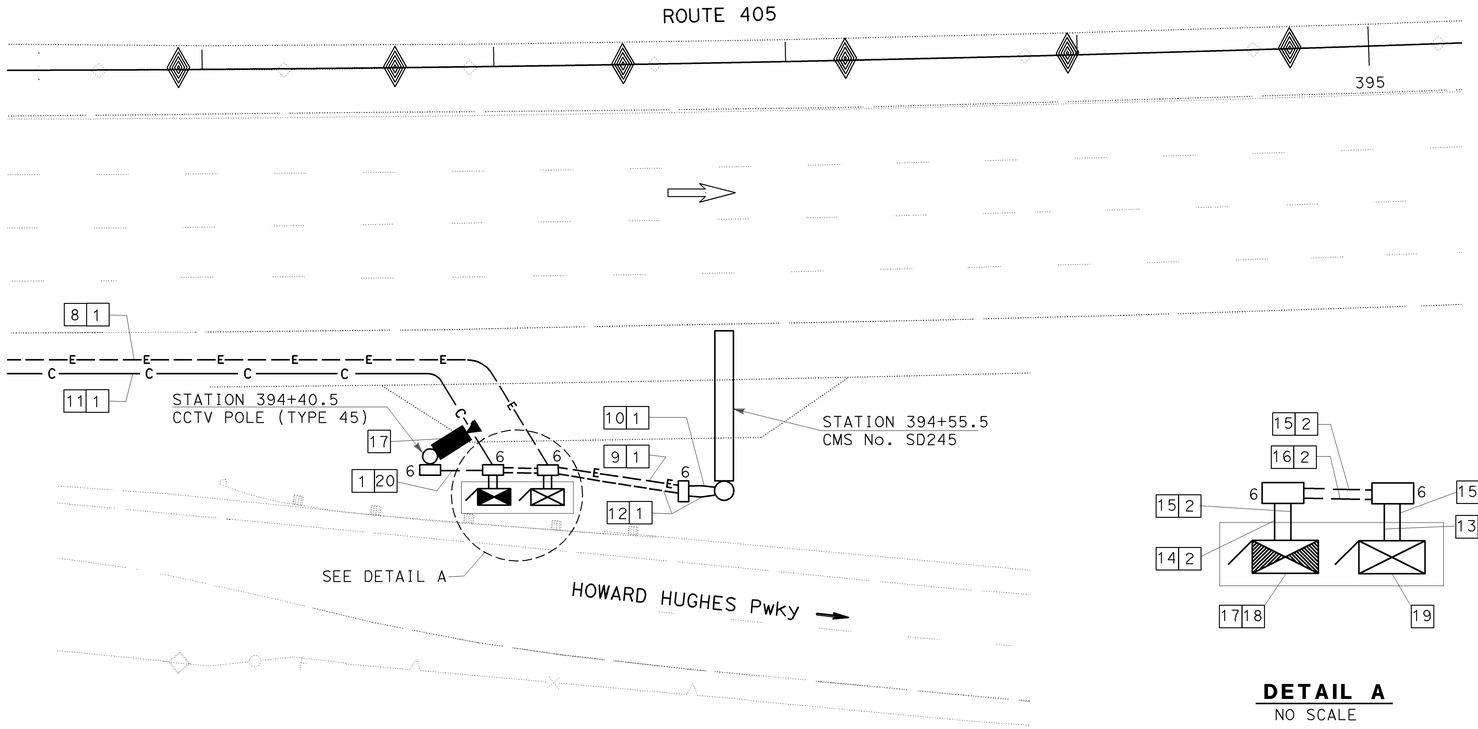
AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**

SEE REVISION CHANGES IN SHEET 1101A



CCTV CAMERA & CMS No. SD245
(LOCATION SD245)
NO SCALE

DETAIL A
NO SCALE

NOTES: (THIS SHEET ONLY)

8 78C, 6#1/0, 4#4

9 78C, 6#1/0

10 78C, 6#1/0, 1#4 GND

11 78C, (2)6P22, 4P18, 2SMFO, INNERDUCT (SIZE 32)

12 78C, 6P18, 24P18

13 103C, 6P22, 4P18, CMS CONTROL CABLE (6P18, 24P18)

14 103C, 6P22, 2SMFO, INNERDUCT (SIZE 32), CCTV WIRING (SEE TABLE 1, E-1)

15 103C, 2#4

16 103C, 6P22, 4P18

17 INSTALL CCTV CAMERA POLE ON NEW FOUNDATION. SEE SHEET E-137 FOR DETAILS. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE.

18 INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION. CABINET SHALL INCLUDE CAMERA CONTROL RECEIVER AND SINGLE VIDEO TRANSMITTER. SEE SHEETS E-91 FOR DETAILS.

19 INSTALL TYPE 334-CMS CABINET ON NEW FOUNDATION. CABINET SHALL INCLUDE MODEL 170 CONTROLLER ASSEMBLY. SEE SHEETS E-89 AND E-91 FOR DETAILS.

CMS No. SD245
CCTV CAMERA SD245
SCALE 1:200

E-100

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN
PROJECT ENGINEER: HIEU LUU

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

LAST REVISION 00-00-00 DATE PLOTTED => 11-APR-2011 TIME PLOTTED => 14:44

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s111708
DGN FILE => 71178uu147.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1101A	1697

Jacqueline C Tan 5-15-03
REGISTERED ELECTRICAL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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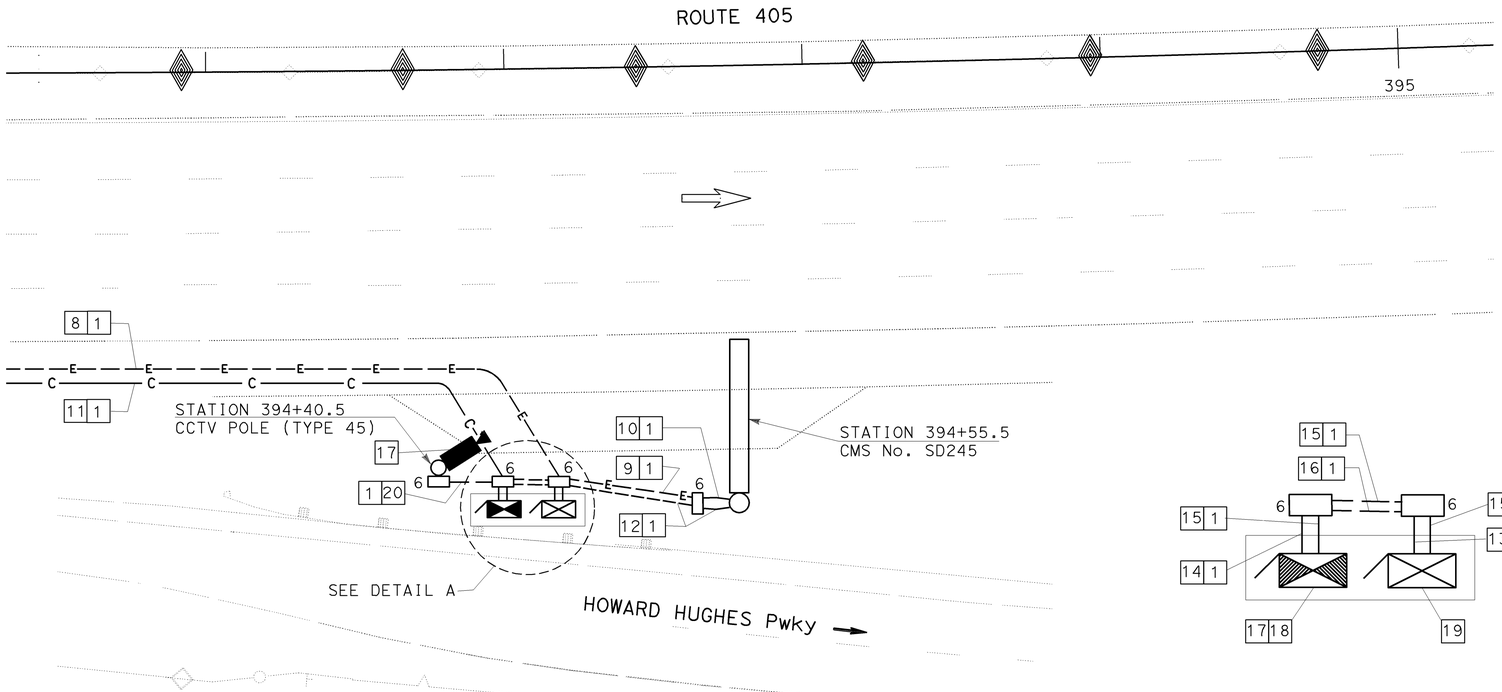
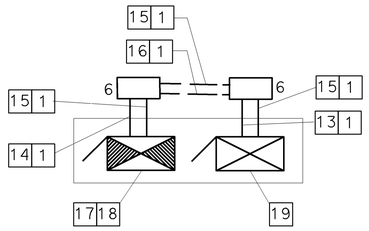
2

AS-BUILT
Contract No. 07- **1178U4**
Resident Engineer: **J. VENTOCILLA**
Completion Date: **06/10/2010**



CCTV CAMERA & CMS No. SD245
(LOCATION SD245)
NO SCALE



DETAIL A
NO SCALE

NOTES: (THIS SHEET ONLY)

8 78C, 4#2, 4#4

9 78C, 4#2

10 78C, 4#2, 1#4 GND

11 78C, (2)6P22, 4P18, 2SMFO, INNERDUCT (SIZE 32)

12 78C, 6P18, 24P18

13 103C, 6P22, 4P18, CMS CONTROL CABLE (6P18, 24P18)

14 103C, 6P22, 2SMFO, INNERDUCT (SIZE 32), CCTV WIRING (SEE TABLE 1, E-1)

15 103C, 2#4

16 103C, 6P22, 4P18

17 INSTALL CCTV CAMERA POLE ON NEW FOUNDATION. SEE SHEET E-90, C-38, AND C-39 FOR DETAILS. INSTALL CCTV CAMERA ASSEMBLY AND PAN/TILT UNIT ON POLE.

18 INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION. CABINET SHALL INCLUDE CAMERA CONTROL RECEIVER AND SINGLE VIDEO TRANSMITTER. SEE SHEETS E-91 FOR DETAILS.

19 INSTALL TYPE 334-CMS CABINET ON NEW FOUNDATION. CABINET SHALL INCLUDE MODEL 170 CONTROLLER ASSEMBLY. SEE SHEETS E-89 AND E-91 FOR DETAILS.

20 78C, CCTV WIRING (SEE TABLE 1, E-47)

2 **REVISED PER ADDENDUM NO. 2 DATED MAY 14, 2004**

CMS No. SD245
CCTV CAMERA SD245
SCALE 1:200

E-100A

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

PROJECT ENGINEER: HIEU LUU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:50

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 10 20 30 40

USERNAME => s110796
DGN FILE => 71178uu147a.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1102	1697

Caltrans Metric

Jacqueline C Tan 5-15-03
REGISTERED CIVIL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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AS-BUILT
Contract No. 07- 1178U4
Resident Engineer: J. VENTOCILLA
Completion Date: 06/10/2010

SEE REVISION CHANGES IN SHEET 1102A

NOTES: (THIS SHEET ONLY)

8 78C, 6#1/0, 2#8

9 78C, 6#1/0

10 78C, 6#1/0, 1#4 GND

11 78C, 6P22, 4P18

12 78C, 6P22, 4P18, CMS CONTROL CABLE (6P18, 24P18)

13 78C, CMS CONTROL CABLE (6P18, 24P18)

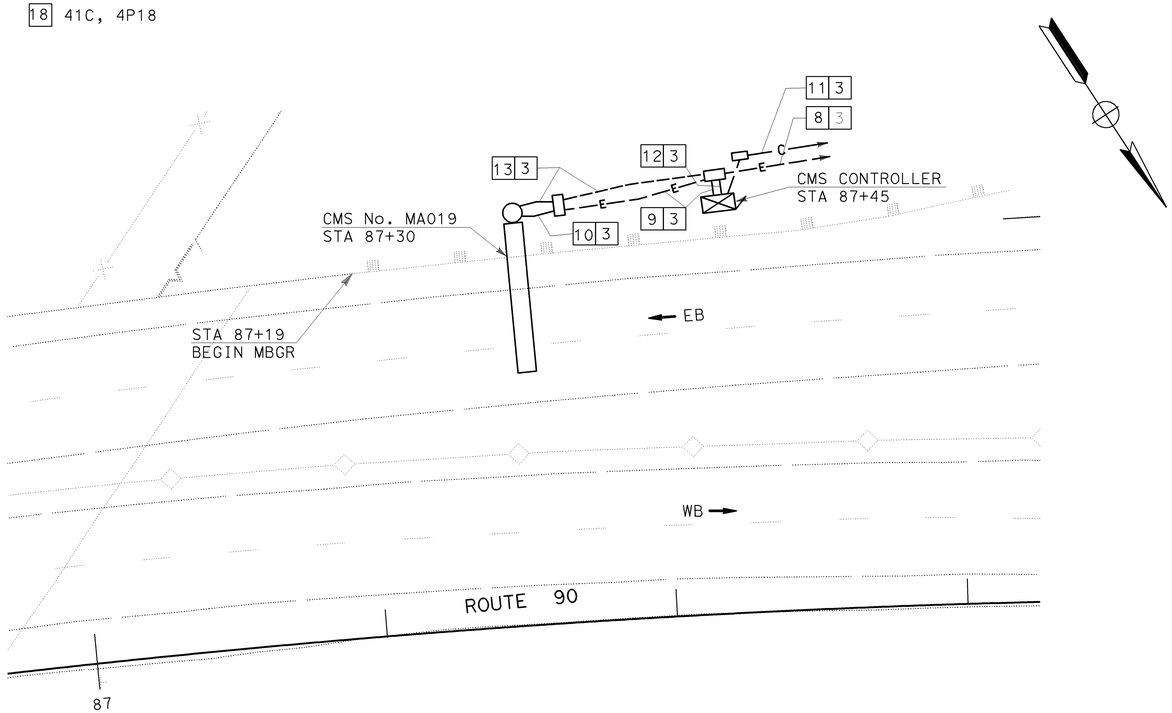
14 INSTALL (4)40 A, 120 V, 1P C/B FOR CMS PANEL AND (1)30 A, 1P C/B FOR CMS CONTROLLER. SEE SHEET E-102 FOR WIRING DETAIL.

15 41C, 2#12

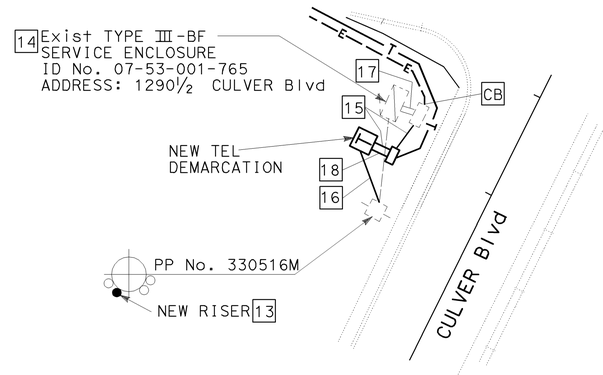
16 78C, CONDUCTOR INSTALLED BY OTHERS.

17 INSTALL NEW 6#1/0, 2#8 IN EXIST CONDUIT.

18 41C, 4P18



CMS No. MA019
KP 3.2
NO SCALE



DETAIL A
NO SCALE

CMS No. MA019
SCALE 1:200

E-101

PROJECT ENGINEER: HIEU LUU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY: HIEU LUU
CHECKED BY: JACQUELINE TAN

LAST REVISION 00-00-00 | DATE PLOTTED => 11-APR-2011 | TIME PLOTTED => 14:44

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

USERNAME => s111708
DGN FILE => 71178uu148.dgn

CU 07223 | EA 1178U1

NOTES: (THIS SHEET ONLY)

8 78C, 4#2, 2#6

9 78C, 4#2

10 78C, 4#2, 1#4 GND

11 78C, 6P22, 4P18

12 78C, 6P22, 4P18, CMS CONTROL CABLE (6P18, 24P18)

13 78C, CMS CONTROL CABLE (6P18, 24P18)

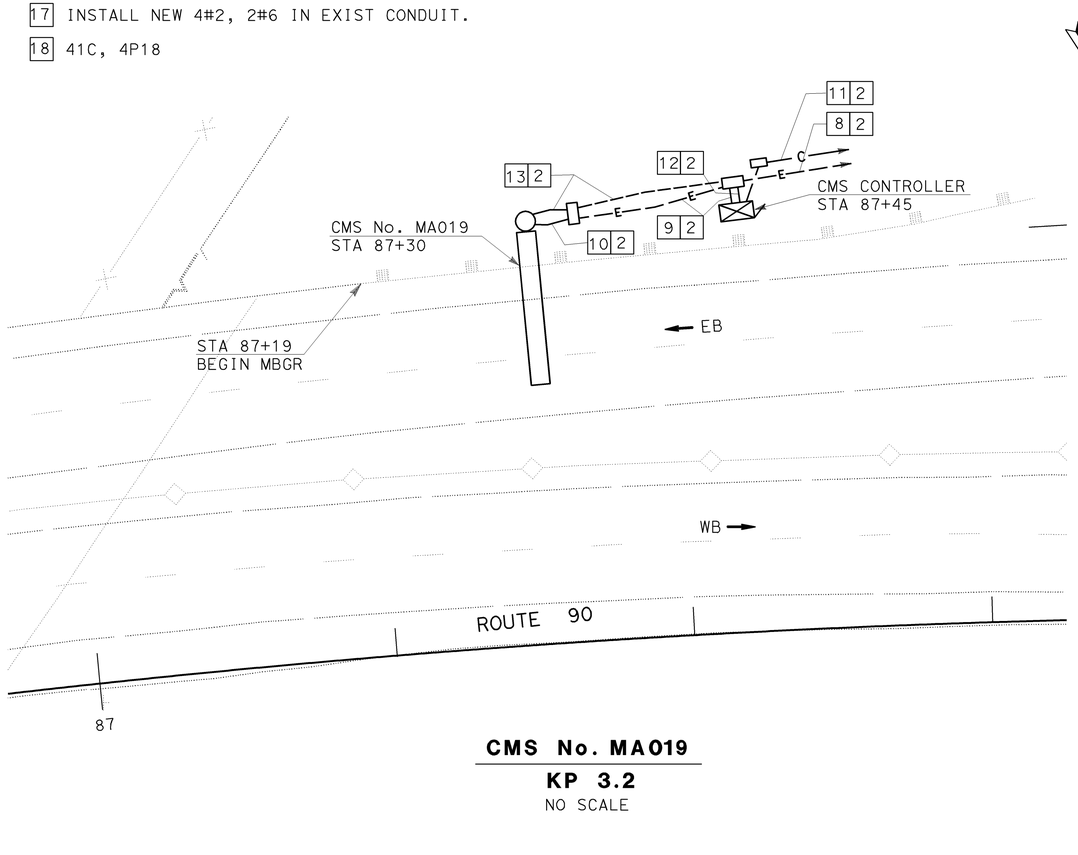
14 INSTALL NEW CIRCUIT BREAKERS AS FOLLOWS:
- 1 2P, 240 V, 40 A, CMS
- 1 1P, 120 V, 30 A, CMS CONTROLLER
- 1 1P, 120 V, 30 A, TDC

15 41C, 2#12

16 78C, CONDUCTOR INSTALLED BY OTHERS.

17 INSTALL NEW 4#2, 2#6 IN EXIST CONDUIT.

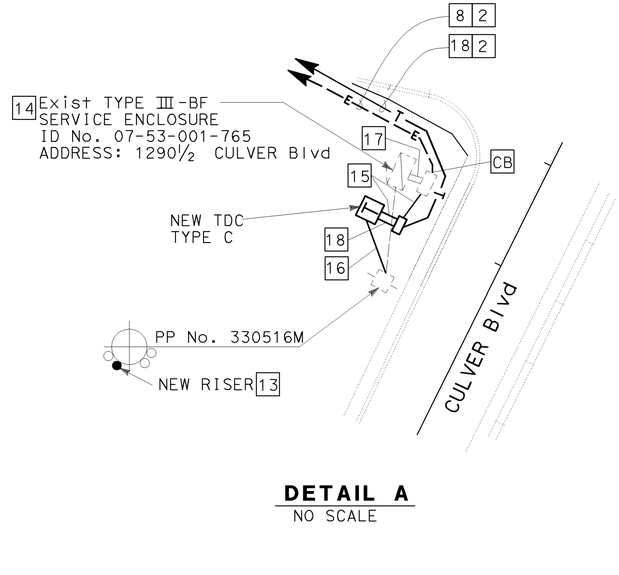
18 41C, 4P18



CMS No. MA019

KP 3.2

NO SCALE



DETAIL A

NO SCALE

2 **REVISED PER ADDENDUM NO. 2 DATED MAY 14, 2004**

CMS No. MA019

SCALE 1:200

E-101A

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101, 105,134,170,405,605	Var	1102A	1697

Jacqueline C Tan 5-15-03
REGISTERED CIVIL ENGINEER

2-2-04
PLANS APPROVAL DATE

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

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AS-BUILT

Contract No. 07- **1178U4**

Resident Engineer: **J. VENTOCILLA**

Completion Date: **06/10/2010**

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	HIEU LUU	JACQUELINE TAN
CHECKED BY		

PROJECT ENGINEER: HIEU LUU

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

LAST REVISION 00-00-00 DATE PLOTTED => 22-MAR-2011 TIME PLOTTED => 12:51

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USERNAME => s110796
DGN FILE => 71178uu148a.dgn

CU 07223

EA 1178U1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	43	151

1

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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PROJECT NOTES: (FOR SHEETS E-2 THRU E-19)

1. TRENCH AND INSTALL CONDUIT IN ASPHALT.
2. TRENCH AND INSTALL CONDUIT IN CONCRETE.
3. TRENCH AND INSTALL CONDUIT IN SOIL.
4. ATTACH CONDUIT TO STRUCTURE. SEE SHEET C-4 FOR BRIDGE ATTACHMENT TYPE AND DETAILS.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. COIL 30 FEET OF 6P22 CABLE IN NEW PULL BOX FOR FUTURE COUNT STATION CONTROLLER.
7. TERMINATE TWISTED PAIR CABLE AND COIL 60 FEET IN SPLICE VAULT.
8. CONNECT 6P22 TO CONTROLLER. USE CONDUIT FROM PB INTO CABINET. IF NEW TELEPHONE BRIDGE CONNECT OTHER 6P22 TO BLOCK SEE SHEET E-55.
9. TERMINATE 12SMFO CABLE AND COIL 60 FEET IN SPLICE VAULT.
10. TERMINATE 48SMFO CABLE AND COIL 60 FEET IN SPLICE VAULT.

10A. TERMINATE 72SMFO CABLE AND COIL 60 FEET IN SPLICE VAULT.

11. COIL 100 FEET 75P22 CABLE IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.
12. COIL 100 FEET 12SMFO CABLE IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.
13. COIL 100 FEET OF 48SMFO AND 24SMFO CABLES IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.
14. LOCATE SPLICE VAULT 15 FEET FROM EXISTING SHOULDER FOR ANTICIPATED HOV EXPANSION.
15. LOCATE 6(T) PB AS CLOSE TO SOUND WALL BASE AS POSSIBLE FOR FOR ANTICIPATED HOV EXPANSION.
16. COIL 25 FEET OF 6P22 CABLE IN NEW PULL BOX FOR IRRIGATION CONTROLLER CONNECTION.
17. COIL 25 FEET OF 6P22 CABLE IN NEW PULL BOX FOR TRAFFIC SIGNAL CONTROLLER.

GENERAL NOTES:

1. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE IN WRITING TO THE ENGINEER.
2. SERVICE EQUIPMENT ENCLOSURE SHALL BE LOCATED 10' MINIMUM FROM THE POWER POLE OR VAULT.
3. ELECTRICAL SERVICE INSTALLATION SHALL MEET THE REQUIREMENTS OF EITHER SOUTHERN CALIFORNIA EDISON COMPANY(SCE)OR LOS ANGELES DEPARTMENT OF WATER AND POWER(DWP).
4. CONDUCTORS FROM POWER POLE(OR VAULT)TO SERVICE ENCLOSURE WILL BE INSTALLED BY UTILITY COMPANY.
5. TRENCH FOR CONDUIT INSTALLATION BETWEEN POWER POLE(OR VAULT) AND SERVICE ENCLOSURE SHALL BE LEFT OPEN FOR INSPECTION AND APPROVAL BY SCE OR DWP INSPECTOR BEFORE BACKFILL.
6. STENCIL CAMERA IDENTIFICATION NUMBER ON POLE IN 3" CHARACTERS 10 FEET ABOVE BASE. SEE SHEET K1 AND K2.
7. GIVEN STATIONS ARE APPROXIMATE,EXACT EQUIPMENT AND POLE LOCATIONS TO BE DETERMINED BY ENGINEER.

ABBREVIATIONS: (NOT LISTED IN CALTRANS STANDARD PLANS)

B/O	- BREAK OUT
CCK	- CAMERA CONTROL KEYPAD
CCTV	- CLOSED CIRCUIT TELEVISION
COMM	- COMMUNICATION
DACCS	- DIGITAL ACCESS CROSS CONNECTION SYSTEM
DEMARC	- DEMARCATION
DEMUX	- DEMULTIPLEX
DWP	- LA DEPARTMENT OF WATER AND POWER
FDF	- FIBER DISTRIBUTION FRAME
FRX	- FIBER VIDEO RECEIVER
GTE	- GENERAL TELEPHONE AND ELECTRIC
HAR	- HIGHWAY ADVISORY RADIO
HID	- HIGH INTENSITY DISCHARGE
JKFD	- JACKFIELD
MUX	- MULTIPLEX
OW	- ORDER WIRE(MULTIPLE VOICE CIRCUIT)
OC	- OPTICAL CARRIER
O/E	- OPTICAL TO ELECTRIC
PAC BELL	- PACIFIC BELL TELEPHONE COMPANY
PT&T	- PACIFIC TELEPHONE AND TELEGRAPH
RX	- RECEIVER
SD	- SAN DIEGO
SCE	- SOUTHERN CALIFORNIA EDISON
SCGS	- SOUTHERN CALIFORNIA GAS COMPANY
SCWC	- SOUTHERN CALIFORNIA WATER COMPANY
SM	- SINGLEMODE
SMFO	- SINGLEMODE FIBER OPTIC
SONET	- SYCHRONOUS OPTICAL NETWORK
T	- TERMINATE
TX	- TRANSMITTER
VMX	- VIDEO MULTIPLEXER
VSK	- VIDEO SWITCH KEYPAD
VX	- VIDEO TRANSMITTER
WFM	- WAVEFORM MONITOR

LEGEND (SHEET E-2 TO E-20)

	CCTV ASSEMBLY CAMERA AND POLE
	SPLICE VAULT (SEE SHEET E-43)
	EXISTING SPLICE VAULT
	EXISTING CONTROLLER TO BE TIED TO COMMUNICATION SYSTEM
	NEW CCTV 334 TV CABINET
15	15 PULL BOX
— — E — —	PROPOSED POWER SERVICE CONDUIT
— — e — —	EXISTING POWER SERVICE CONDUIT
	EXISTING MAGNETOMETERS
	EXISTING DETECTOR LOOPS
PP#XXX	POWER POLE NUMBER
XXSMFO	SINGLE MODE FIBER OPTIC CABLE SEE SHEET E-84 THROUGH E-87 FOR ASSIGNMENT
XXP22	XX PAIR COPPER TELEPHONE CABLE SEE SHEET E-72 THROUGH E-80 FOR ASSIGNMENT
SDXXX	CCTV IDENTIFICATION NUMBER: (SD = SAN DIEGO; XXX = POST MILE DESIGNATOR TO ONE DECIMAL PLACE)

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

LEGEND AND NOTES

1 REVISED PER ADDENDUM NO. 1 DATED JANUARY 20, 1995

E-1

DATE	REVISED BY	DATE	REVISED
3/94		3/94	

CALCULATED/DESIGNED BY: RL
CHECKED BY: RS

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => 14-JAN-1995 11:53

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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DGN FILE => /usr/jimt/PO/712081u01.dgn

CU 07374

EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u02.dgn DATE: Mon Jun 26 2000 TIME: 09:18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	44	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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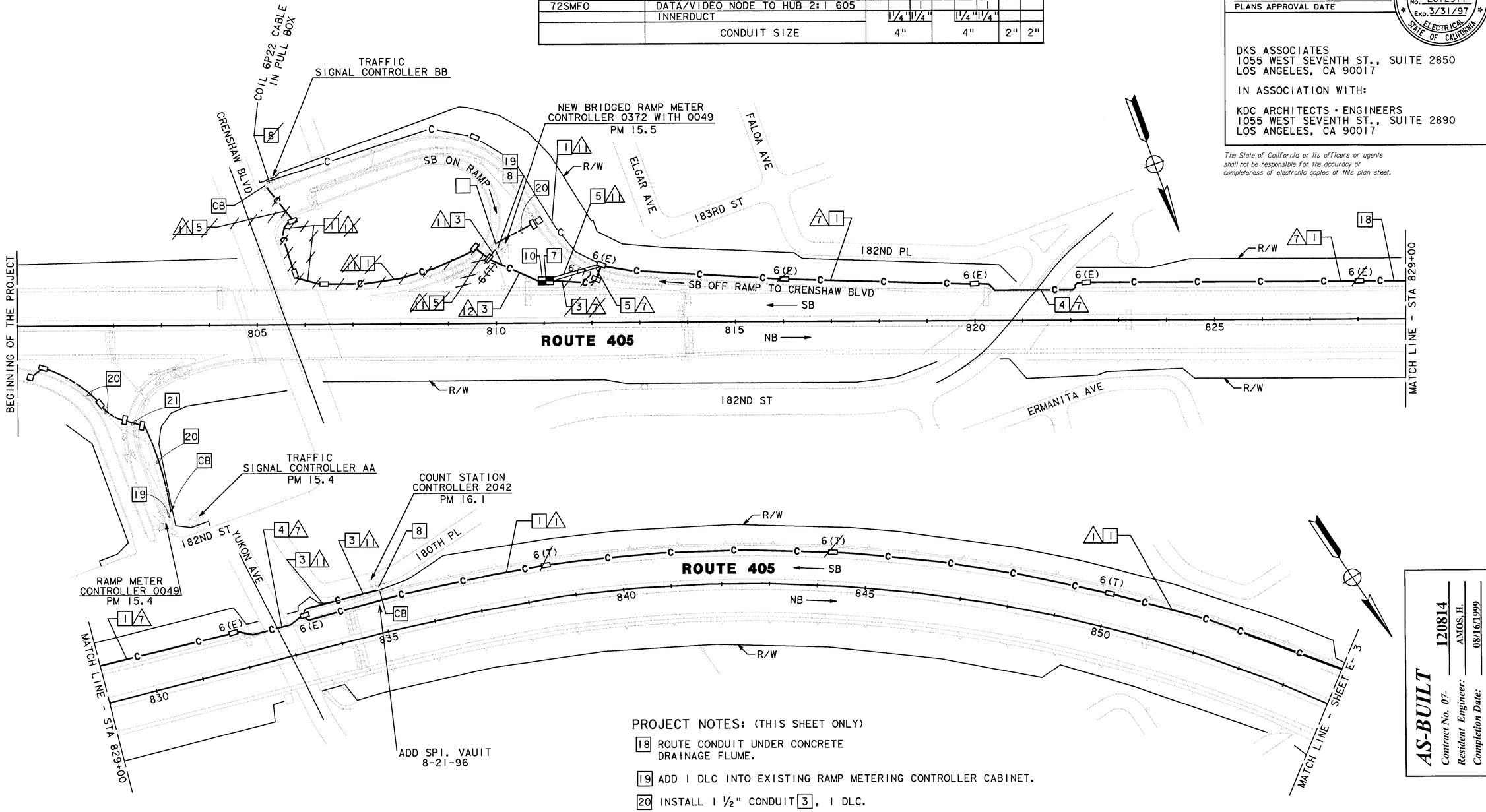
CONDUCTOR SCHEDULE					
CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 7	11	12
75P22 CABLE	COMMUNICATION DATA	1	1		
6P22 CABLE	CONTROLLER DATA		1	1	2
72SMFO	DATA/VIDEO NODE TO HUB 2: 1 605	1	1		
	INNERDUCT	1 1/4"	1 1/4"		
	CONDUIT SIZE	4"	4"	2"	2"



PROJECT NOTES: (THIS SHEET ONLY)

18 ROUTE CONDUIT UNDER CONCRETE DRAINAGE FLUME.

19 ADD 1 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

20 INSTALL 1 ½" CONDUIT 3, 1 DLC.

21 INSTALL 2" CONDUIT 5, 1 DLC.

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-2

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

LAST REVISION 00-00-00

CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
CHECKED BY	RL 3/94	JKB	7/94
	RS 3/94		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN OVERSIGHT
PAT SULLIVAN
Caltrans

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07374 EA 120811

FORM DC-OE-92-PF (REV. 3/88)

$$$$$$$$$$DGNSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USER$$$$$$

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u02.dgn DATE: Mon Jun 26 2000 TIME: 09:18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	45	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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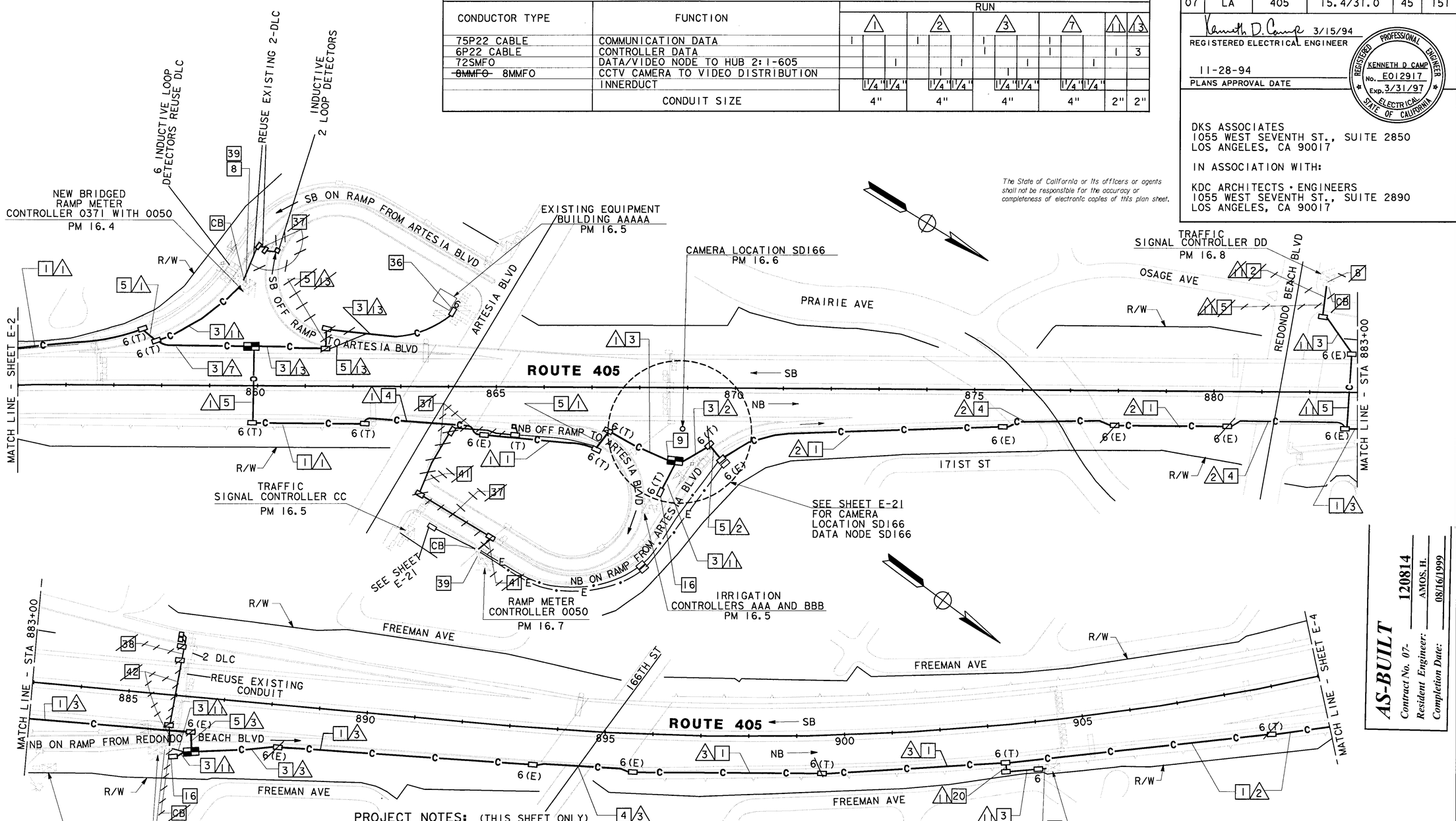
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 3	RUN 7	RUN 11	RUN 13
75P22 CABLE	COMMUNICATION DATA	1	1	1	1		
6P22 CABLE	CONTROLLER DATA					1	3
72SMFO	DATA/VIDEO NODE TO HUB 2: I-605	1	1	1	1		
~~8MMFO~~ 8MMFO	CCTV CAMERA TO VIDEO DISTRIBUTION						
	INNERDUCT	1/4" 1/4"	1/4" 1/4"	1/4" 1/4"	1/4" 1/4"		
	CONDUIT SIZE	4"	4"	4"	4"	2"	2"



PROJECT NOTES: (THIS SHEET ONLY)

19 CONNECT 6P22 FROM NEW PULL BOX TO EXISTING CONTROLLER CABINET.

20 CORE DRILL THROUGH SOUND WALL TO NEWLY LOCATED PULL BOX BEHIND SOUND WALL, SEE SHEET C-8. INSTALL CONDUIT AS SHOWN.

36 COIL 25 FEET OF 3-6P22 CABLES IN NEW PULL BOX.

37 INSTALL 1 1/2"C [3], 1 DLC

38 INSTALL 1 1/2"C [3], 2 DLC

39 ADD 1 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

40 ADD 2 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

41 INSTALL 2"C [5], 1 DLC

42 INSTALL 2"C [5], 2 DLC

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-3

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DRAWN BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	RL	CF	RS	3/94	JKB	7/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88) FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 USERNAME => $$$$$$USER$$$$$$ DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$ CU 07374 EA 120811

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	46	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

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DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 2	RUN 3	RUN 10	RUN 11	RUN 12	RUN 13	RUN 5
75P22 CABLE	COMMUNICATION DATA	1	1	1				1
6P22 CABLE	CONTROLLER DATA		1	4		1	2	3	3	
72SMFO	DATA/VIDEO NODE TO HUB 2: I-605	1								1
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1	1						
	INNERDUCT	1 1/4"	1 1/4"	1 1/4"				1 1/4"
	CONDUIT SIZE	4"	4"	4"	2"	2"	2"	4"

NEW BRIDGED RAMP METER CONTROLLER 0370 WITH 0052 PM 17.6

TRAFFIC SIGNAL CONTROLLER EE PM 17.5

IRRIGATION CONTROLLER FFF PM 17.6

SEE SHEET E-22 FOR CAMERA LOCATION SD177

CAMERA LOCATION SD177 PM 17.7

HAWTHORNE BLVD

SB ON RAMP

SB OFF RAMP TO HAWTHORNE BLVD

GREVILLEA AVE

R/W

MATCH LINE - SHEET E-3

INSTALL 1 1/2"C, 1 DLC

3"C, 2 DLC

ROUTE 405

SB

NB

3"C, 4 DLC

159TH ST

MANHATTAN BEACH BLVD

MATCH LINE - STA 938+00

915 920 925 930 935

ADD 6PR SPI

IRRIGATION CONTROLLERS DDD AND EEE PM 17.4

REUSE EXISTING CONDUIT & DLC

NB OFF RAMP TO HAWTHORNE BLVD

NB ON RAMP

RAMP METER CONTROLLER 0052 PM 17.5

TRAFFIC SIGNAL CONTROLLER FF PM 17.5

MODIFY TRAFFIC COUNT STATION CONTROLLER 2052, PM 17.7

CMS CONTROLLER 3055 CMS NO 2 PM 17.9

TRAFFIC SIGNAL CONTROLLER GG PM 18.2

EXISTING BRIDGED RAMP METER CONTROLLER 0369 WITH 0053, 0368 AND 0054 PM 18.0

SB OFF RAMP TO INGLEWOOD AVE

SB ON RAMP

RAMP METER CONTROLLER 0368 PM 18.3

INGLEWOOD AVE

IRRIGATION CONTROLLER HHH AND AAM PM 18.3

SB ON RAMP FROM INGLEWOOD AVE

MATCH LINE - SHEET E-5

940 945 950 955 960 965

NB

NB ON RAMP FROM INGLEWOOD AVE

NB OFF RAMP TO INGLEWOOD AVE

IRRIGATION CONTROLLER GGG AND AAL PM 18.2

RAMP METER CONTROLLER 0053 PM 18.2

TRAFFIC SIGNAL CONTROLLER HH PM 18.2

RAMP METER CONTROLLER 0054 PM 18.4

PROJECT NOTES: (THIS SHEET ONLY)

19 CONNECT 6P22 FROM NEW PULL BOX TO EXISTING CONTROLLER CABINET.

20 INSTALL 1 DLC.

21 ADD 1 DLC TO EXISTING RAMP METERING CONTROLLER CABINET.

22 INSTALL 1 1/2" CONDUIT [3], 1 DLC.

23 ADD 1 DLC TO EXISTING CONDUIT.

24 INSTALL 2"CONDUIT [5], 1 DLC.

25 ADD 4 DLC TO EXISTING TRAFFIC COUNT STATION.

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

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-4

DATE	BY	REVISED BY	DATE REVISED
3/94	RS	JKB	7/94/94

CALCULATED/DESIGNED BY
CHECKED BY
AD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
DESIGN OVERSIGHT PAT SULLIVAN

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$SYTIME$$$$$$

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

FORM DC-OE-92-PF (REV. 3/88)

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u05.dgn DATE: Mon Jun 26 2000 TIME: 09:21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	47	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

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DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

PROJECT NOTES: (THIS SHEET ONLY)

22 CONNECT 1-6P22 FROM NEW PULL BOX TO DISTRICT EQUIPMENT IN CONTROLLER CABINET AND COIL OTHER 6P22 IN PULL BOX.

23 INSTALL 1 DLC.

24 ADD 5 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

25 INSTALL 2"C [5] , 1 DLC.

26 INSTALL 1 1/2"C [3] , 1 DLC.

27 ADD 2 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

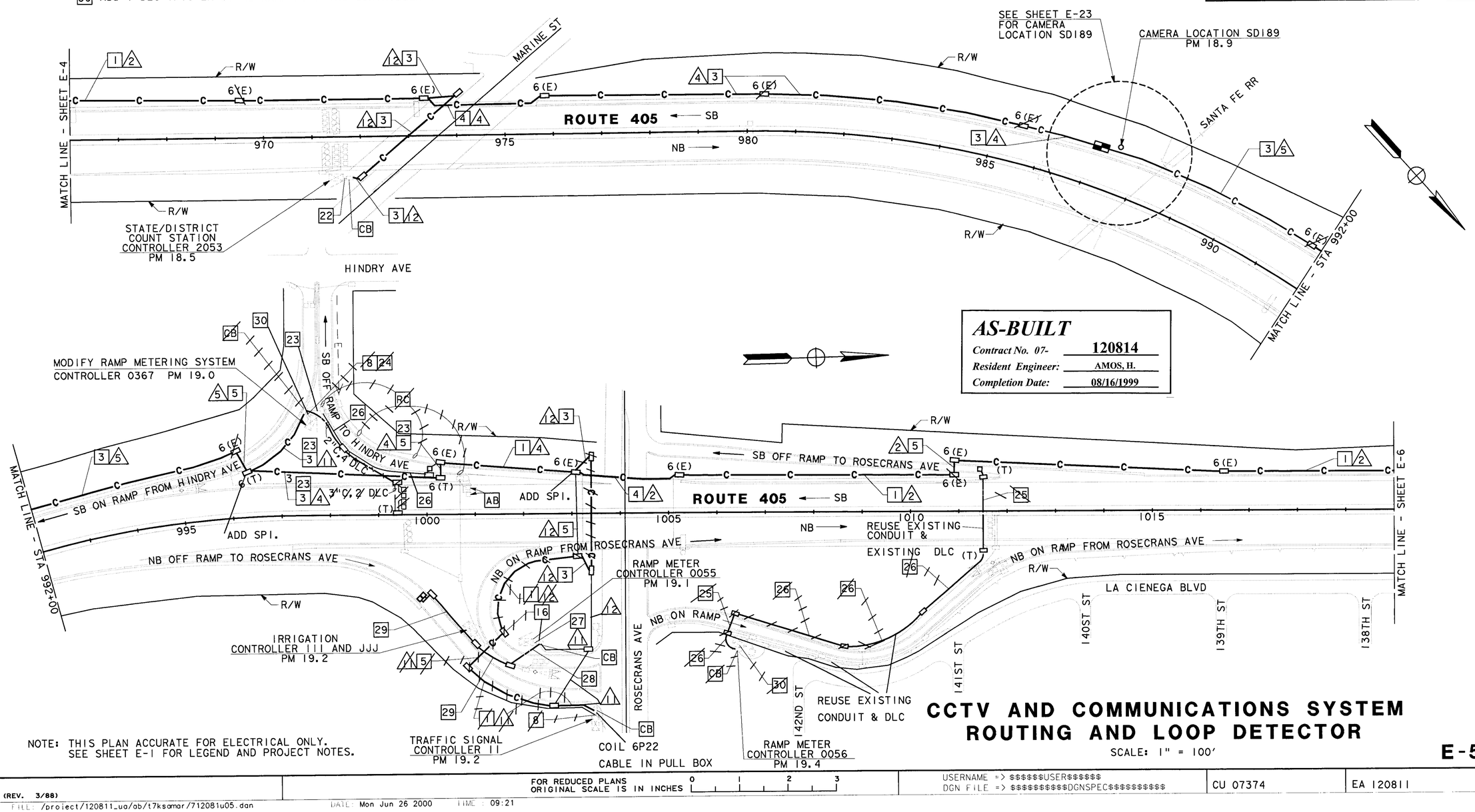
28 INSTALL 2"C [5] , 2 DLC.

29 INSTALL 1 1/2"C [3] , 2 DLC.

30 ADD 1 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN (2)	RUN (4)	RUN (5)	(11)	(12)
75P22 CABLE	COMMUNICATION DATA	1	1	1		
6P22 CABLE	CONTROLLER DATA		2	3	1	2
72SMFO	DATA/VIDEO NODE TO HUB 2: 1 605	1	1	1		
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1		
	INNERDUCT	1 1/4"	1 1/4"	1 1/4"		
	CONDUIT SIZE	4"	4"	4"	2"	2"



AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-5

DESIGNED BY	CALCULATED/ DESIGNED BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
JKB	RL	RS	3/94	AD	7/94/94

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$SYTIME$$$$$$

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

FORM DC-OE-92-PF (REV. 3/88)

$$$$$$$$$$DGNSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USER$$$$$$

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u05.dgn DATE: Mon Jun 26 2000 TIME: 09:21

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u06.dan DATE: Mon Jun 26 2000 TIME: 09:34

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	48	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER — REGISTERED — KENNETH D CAMP No. E012917 Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

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DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

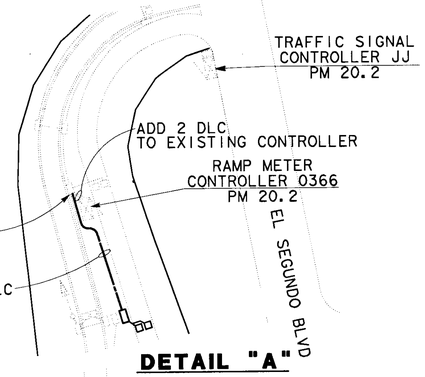
IN ASSOCIATION WITH:

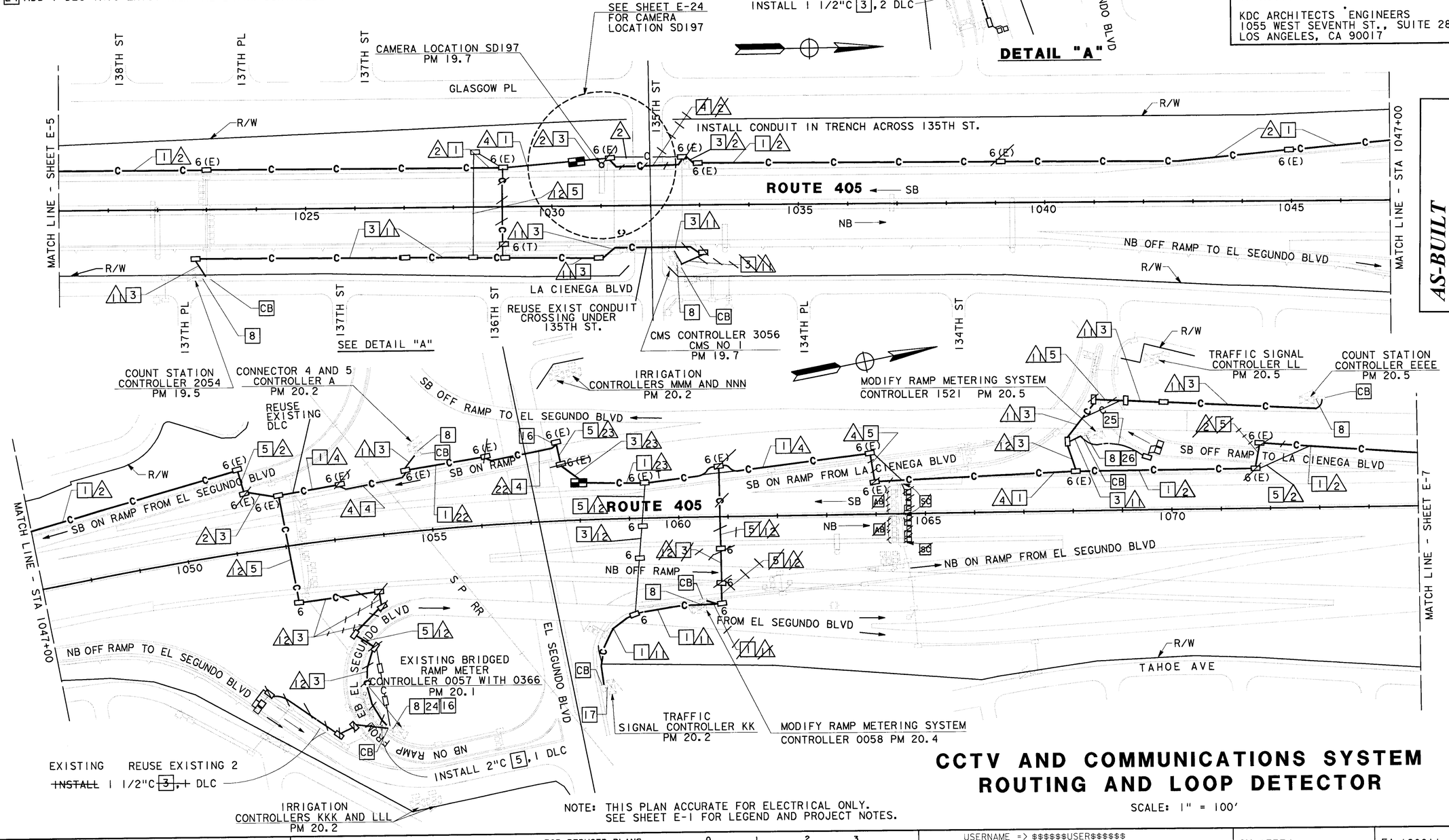
KDC ARCHITECTS ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 2	RUN 4	RUN 11	RUN 12	RUN 21	RUN 22	RUN 23
75P22 CABLE	COMMUNICATION DATA	1	1			1	1	1
6P22 CABLE	CONTROLLER DATA		2		2		3	4
72SMFO	DATA/VIDEO NODE TO HUB 2: I-605	1	1			1	1	1
~~6MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1			1	1	1
	INNERDUCT	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"
	CONDUIT SIZE	4"	4"	2"	2"	4"	4"	4"

PROJECT NOTES: (THIS SHEET ONLY)
24 REUSE 2 EXISTING ~~ADD 1~~ DLC INTO EXIST RAMP METERING CONTROLLER CABINET.
25 INSTALL 1 1/2"C [3], 2 DLC
26 ADD 2 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.





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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-6

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYTIME$$$$$$

CALCULATED/ DESIGNED BY	DATE	REVISED BY	AD	JKB
CHECKED BY	3/94	DATE REVISED	9/94	9/94
RS	RL			

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

$$$$$$$$$$DGNSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USER$$$$$$

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

FORM DC-OE-92-PF (REV. 3/88)

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u06.dan DATE: Mon Jun 26 2000 TIME: 09:34

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1/1	1/2	1/6	1/9	2	25	26	27	64
75P22 CABLE	COMMUNICATION DATA					1		1	1	
6P22 CABLE	CONTROLLER DATA	1	2	2	1		4	5	4	3
72SMFO	DATA/VIDEO NODE TO HUB 2: I-605									
12 ~~8~~SMFO	TUNNEL CAMERA TRUNK LINE				1		1	1	1	
2SMFO	CONNECTOR 5 TUNNEL TRUNK LINE						1	1	1	1
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION					1		1		
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO			1						
2SMFO	INNERDUCT					1¼"|1¼"	1¼"|1¼"	1¼"|1¼"	1¼"|1¼"	
	CONDUIT SIZE	2"	2"	2"	2"	4"	4"	4"	4"	2"

AS-BUILT
Contract No. 07- 120814
Resident Engineer: [signature]
Completion Date: 08/16/1999

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	49	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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PROJECT NOTES: (THIS SHEET ONLY)

24 ROUTE ~~8~~12SMFO AND 6P22 INTO VENTILATION BUILDING. CONNECT 8SMFO TO CABLE FROM TUNNEL CAMERAS ON PANEL "H" COIL 50 FEET OF 6P22 AT PANEL "H" FOR FUTURE CONNECTION BY OTHERS.

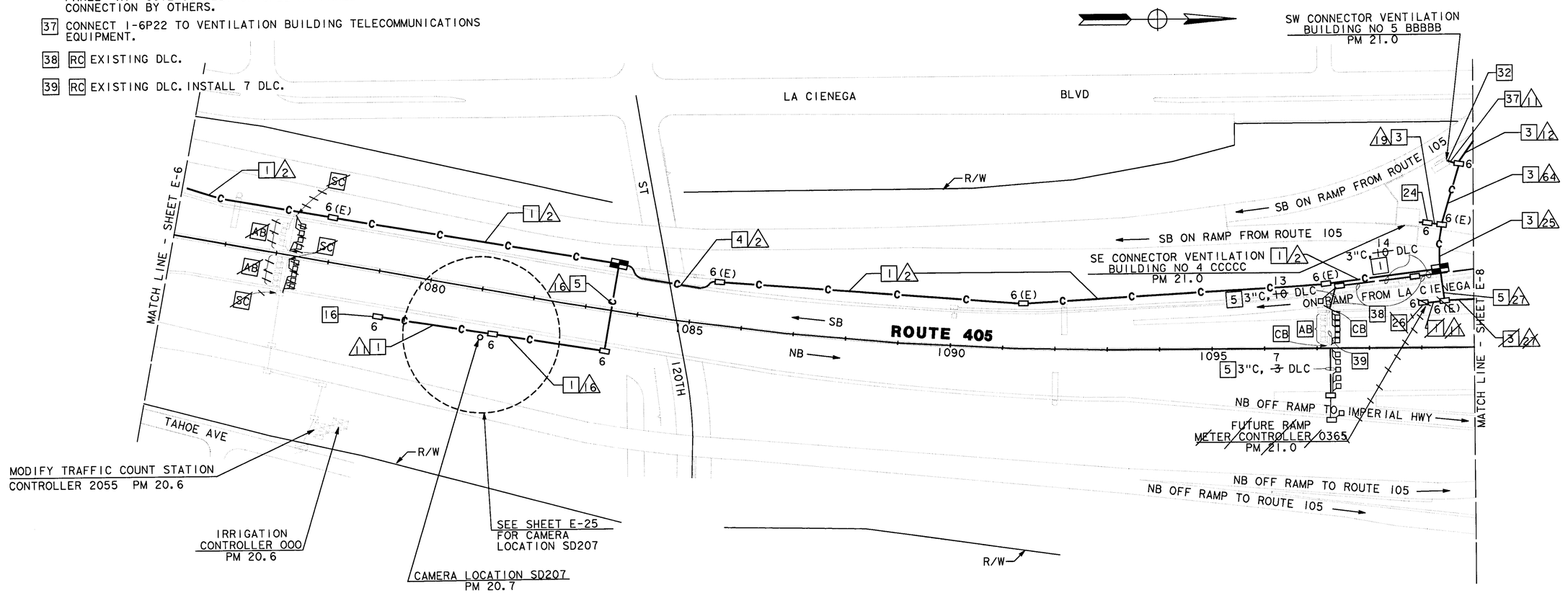
26 COIL 25 FEET OF 6P22 CABLE IN NEW PULL BOX FOR NEW RAMP METER CONTROLLER.

32 ROUTE 2SMFO AND 6P22 INTO VENTILATION BUILDING. CONNECT 2SMFO TO CABLE FROM TUNNEL CAMERAS ON PANEL "HI" COIL 50 FEET OF 6P22 AT PANEL "HI" FOR FUTURE CONNECTION BY OTHERS.

37 CONNECT 1-6P22 TO VENTILATION BUILDING TELECOMMUNICATIONS EQUIPMENT.

38 RC EXISTING DLC.

39 RC EXISTING DLC. INSTALL 7 DLC.



CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-7

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

DATE	REVISED BY	DATE REVISED
9/94	AD	
3/94	RL	RS

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYTIME$$$$$$

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

FORM DC-OE-92-PF (REV. 3/88)

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u08.dan DATE: Mon Jun 26 2000 TIME: 09:36

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 16	1	12	13	14	15	19	27	28	29	30	33	39	36	40	42		63		99
75P22 CABLE	COMMUNICATION DATA							1				1					1				
6P22 CABLE	CONTROLLER DATA	7	1	2	3	4	1	1	4		1		3		4			2		2	
48SMFO	SONET/CCTV TRUNKS													1			1		1		
72SMFO	DATA/VIDEO; NODE TO HUB 2: I-605								1				4	11							
24SMFO	HUB TO TMC											1				1					
24SMFO	DATA/VIDEOS 105 FREEWAY														1e						
12 ~~8~~SMFO	TUNNEL CAMERA TRUNK LINE							1	1		1										
2SMFO	CONNECTOR 5 TUNNEL TRUNK								1												
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION								1		1		1			1					
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO						1						1	1							
2SMFO	INNERDUCT								1¼"|1¼"	1¼"|1¼"	1¼"|1¼"	1¼"|1¼"				1¼"|1¼"	1¼"|1¼"				
	CONDUIT SIZE	2e"	2"	2"	2"	2"	4"	2"	4"	4"	4"	4"	2" (e)	4"	2" (e)	4"	4"		2" (e)		4"

"e" EXISTING CONDUITS AND CABLES.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	50	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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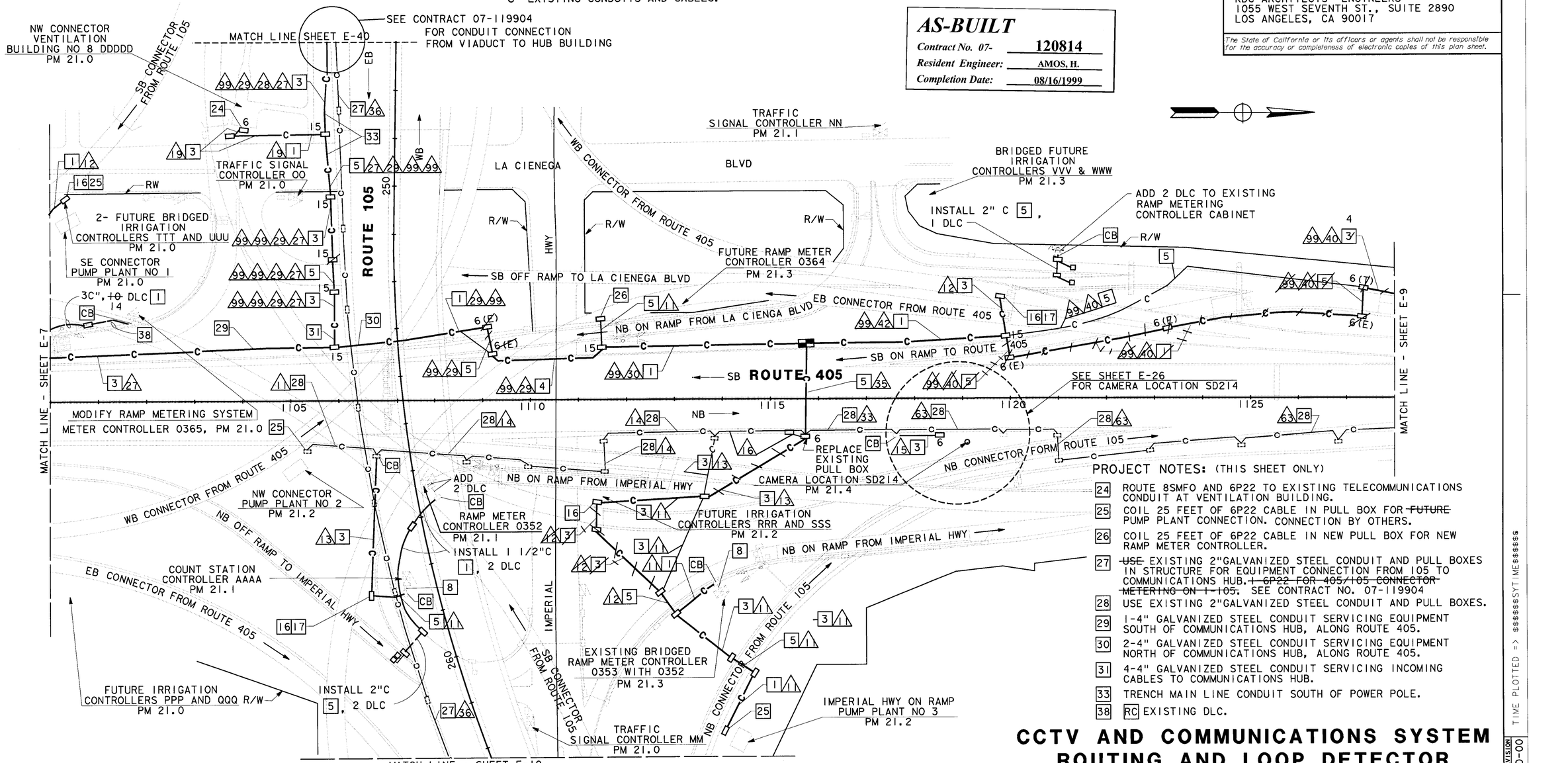
AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999



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

PROJECT NOTES: (THIS SHEET ONLY)

24 ROUTE 8SMFO AND 6P22 TO EXISTING TELECOMMUNICATIONS CONDUIT AT VENTILATION BUILDING.

25 COIL 25 FEET OF 6P22 CABLE IN PULL BOX FOR ~~FUTURE~~ PUMP PLANT CONNECTION. CONNECTION BY OTHERS.

26 COIL 25 FEET OF 6P22 CABLE IN NEW PULL BOX FOR NEW RAMP METER CONTROLLER.

27 ~~USE~~ EXISTING 2"GALVANIZED STEEL CONDUIT AND PULL BOXES IN STRUCTURE FOR EQUIPMENT CONNECTION FROM 105 TO COMMUNICATIONS HUB. ~~1 6P22 FOR 405/105 CONNECTOR METERING ON I-105.~~ SEE CONTRACT NO. 07-119904

28 USE EXISTING 2"GALVANIZED STEEL CONDUIT AND PULL BOXES.

29 1-4" GALVANIZED STEEL CONDUIT SERVICING EQUIPMENT SOUTH OF COMMUNICATIONS HUB, ALONG ROUTE 405.

30 2-4" GALVANIZED STEEL CONDUIT SERVICING EQUIPMENT NORTH OF COMMUNICATIONS HUB, ALONG ROUTE 405.

31 4-4" GALVANIZED STEEL CONDUIT SERVICING INCOMING CABLES TO COMMUNICATIONS HUB.

33 TRENCH MAIN LINE CONDUIT SOUTH OF POWER POLE.

38 RC EXISTING DLC.

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-8

REVISED BY	DATE REVISED
JKB	7/94
AD	9/94

CALCULATED/ DESIGNED BY	DATE
RL	3/94
CHECKED BY	DATE
RS	3/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
DESIGN OVERSIGHT
PAT SULLIVAN

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$
CU 07374
EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u08.dan DATE: Mon Jun 26 2000 TIME: 09:36

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	2	5	6	29	34	38	40	41	42	63	99
75P22 CABLE	COMMUNICATION DATA					1			1	1			
6P22 CABLE	CONTROLLER DATA	1	2	1	2	3	3	4	1	1	2	2	
48SMFO	SONET/CCTV TRUNK												
24SMFO	HUB TO TMC												
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION												
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO			1	1		1	1					
2SMFO	INNER DUCT					1¼" 1¼"			1¼" 1¼"	1¼" 1¼"	1¼" 1¼"		
	CONDUIT SIZE	2"	2"	2"	2"	4"	2"	2"	4"	4"	4"	2" (e)	4"

"e" EXISTING CONDUITS AND CABLES

TRAFFIC SIGNAL CONTROLLER RR PM 22.4

LA CIENEGA BLVD

R/W

DETAIL "B"

TRAFFIC SIGNAL CONTROLLER PP PM 22.0

LA CIENEGA BLVD

R/W

DETAIL "A"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	51	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
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LOS ANGELES, CA 90017

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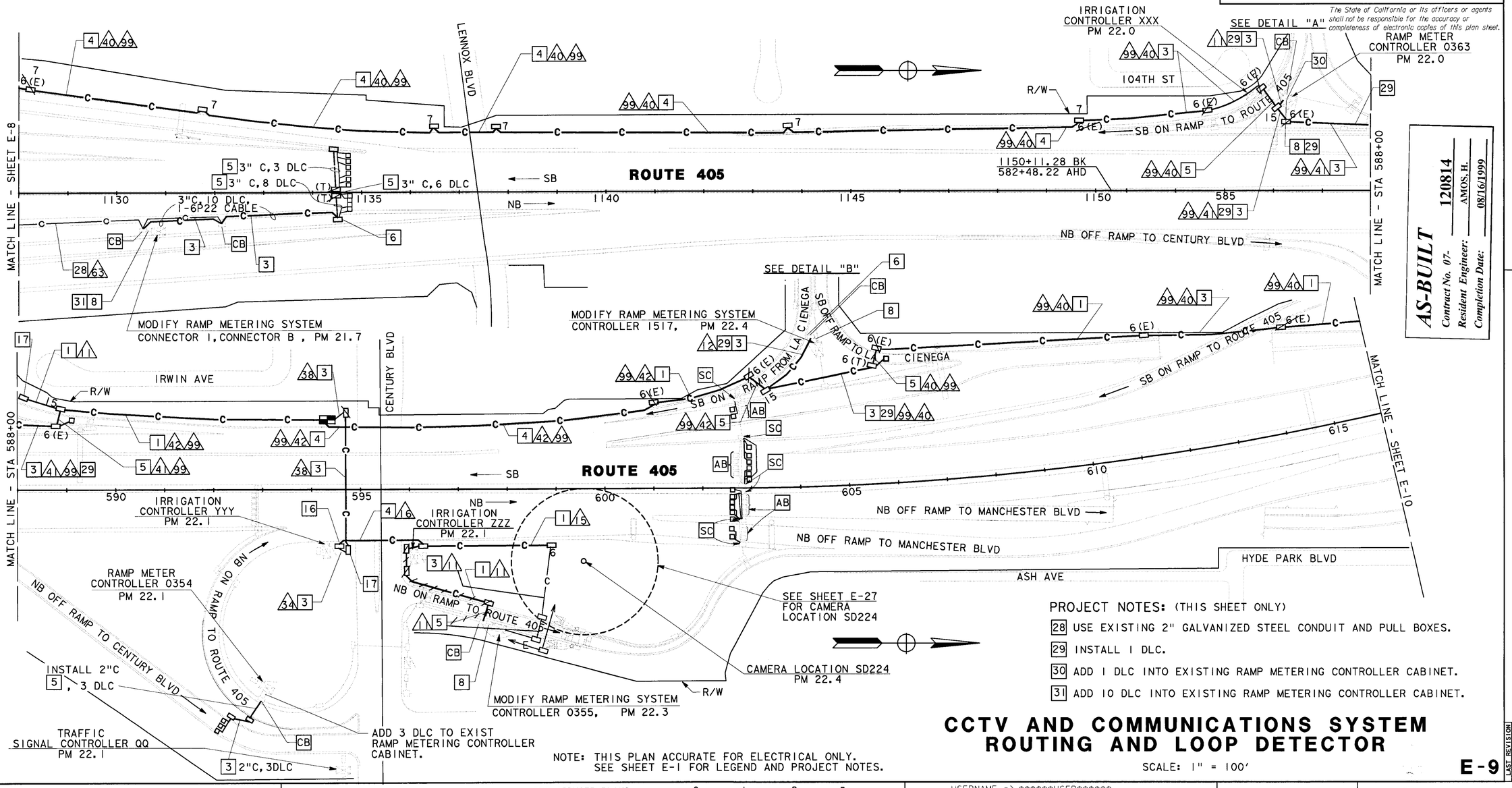

PROJECT NOTES: (THIS SHEET ONLY)

28 USE EXISTING 2" GALVANIZED STEEL CONDUIT AND PULL BOXES.
29 INSTALL 1 DLC.
30 ADD 1 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.
31 ADD 10 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-9

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$SYSTIME$$$$$$

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DRAWN BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	RL	JKB	RS	3/94	AD	7/94 9/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	52	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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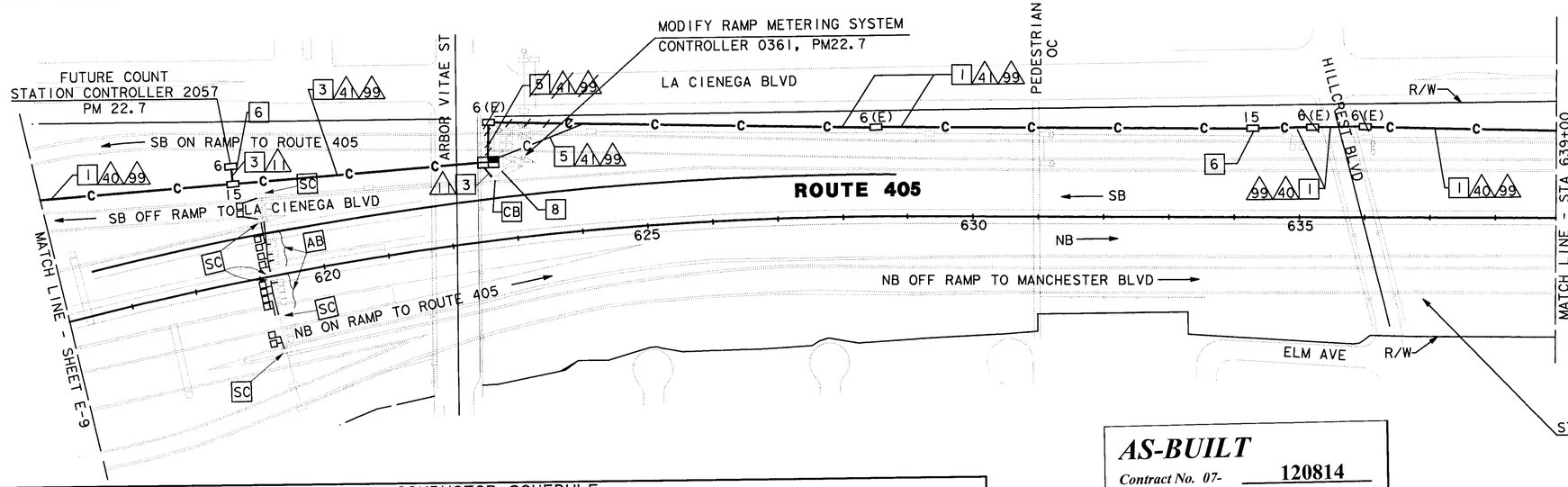
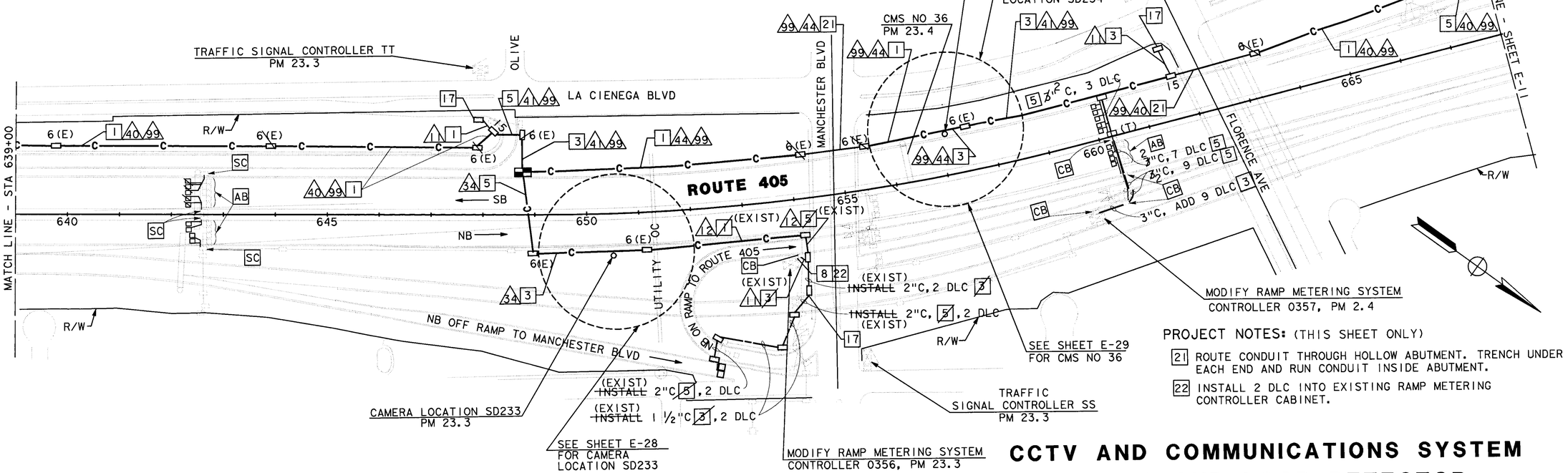


AS-BUILT

Contract No. 07- **120814**
Resident Engineer: **AMOS, H.**
Completion Date: **08/16/1999**

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 3	RUN 40	RUN 41	RUN 44	RUN 45	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	2	3	1	1	3	2	
6P22 CABLE	CONTROLLER DATA								
48SMFO	SONET/CCTV TRUNK				1	1	1	1	1
24SMFO	HUB TO TMC					1		1	
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION				1		1		
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO			1					
2SMFO	INNER DUCT				1¼"	1¼"	1¼"	1¼"	
	CONDUIT SIZE	2"	2"	2"	4"	4"	4"	4"	4"



PROJECT NOTES: (THIS SHEET ONLY)

21 ROUTE CONDUIT THROUGH HOLLOW ABUTMENT. TRENCH UNDER EACH END AND RUN CONDUIT INSIDE ABUTMENT.

22 INSTALL 2 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
DESIGN OVERSIGHT: PAT SULLIVAN

CALCULATED/ DESIGNED BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
RL	RS	3/94	JKB	7/94
			AD	9/94

LAST REVISION — TIME PLOTTED => $$$$$$SYTIME$$$$$$

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 | EA 120811

FORM DC-OE-92-PF (REV. 3/88)

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u11.dan DATE: Mon Jun 26 2000 TIME: 09:38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	53	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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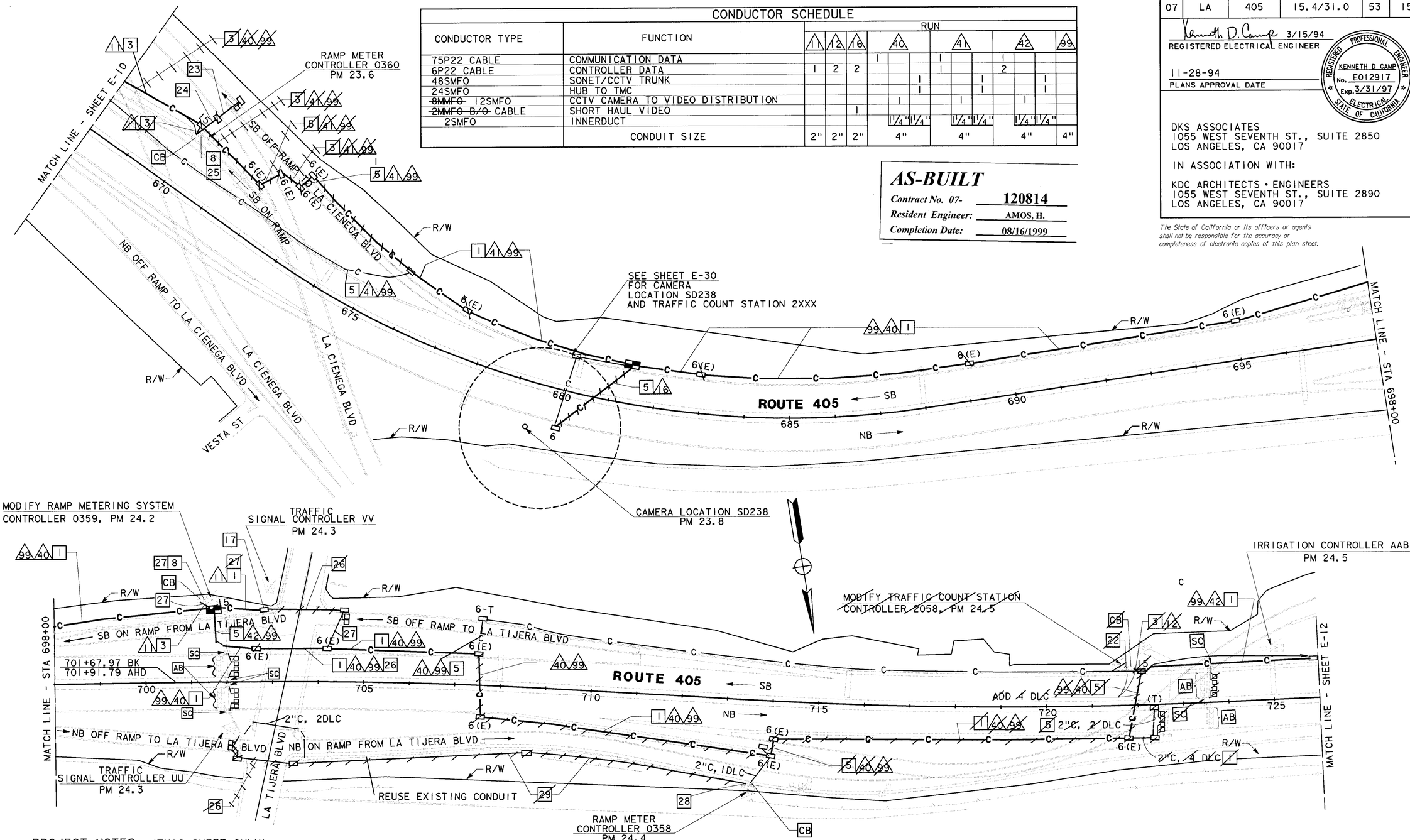
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	2	16	40	41	42	99
75P22 CABLE	COMMUNICATION DATA				1	1	1	
6P22 CABLE	CONTROLLER DATA	1	2	2		1	2	
48SMFO	SONET/CCTV TRUNK				1	1	1	
24SMFO	HUB TO TMC				1	1	1	
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION				1	1	1	
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO			1				
2SMFO	INNERDUCT				1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	
	CONDUIT SIZE	2"	2"	2"	4"	4"	4"	4"

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999



PROJECT NOTES: (THIS SHEET ONLY)

22 CONNECT 1-6P22 FROM NEW PULL BOX TO DISTRICT EQUIPMENT IN CONTROLLER CABINET AND COIL OTHER 6P22 IN PULL BOX.
23 INSTALL 2"C [5], 1 DLC.
24 INSTALL 1 1/2"C [3], 1 DLC.
25 ADD 1 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.
26 INSTALL 2"C [5], 2 DLC.
27 ADD 2 DLC.
28 ADD 2 DLC INTO EXISTING RAMP METERING CONROLLER CABINET.
29 INSTALL 1 1/2"C [3], 2 DLC.

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-11

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	CHECKED BY	DRAWN BY	QUANTITY CHECKED	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	RL	RS	JKB	AD	3/94	3/94	7/94 9/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

LAST REVISION — TIME PLOTTED => $$$$$$$SYTIME$$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u11.dan DATE: Mon Jun 26 2000 TIME: 09:38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	54	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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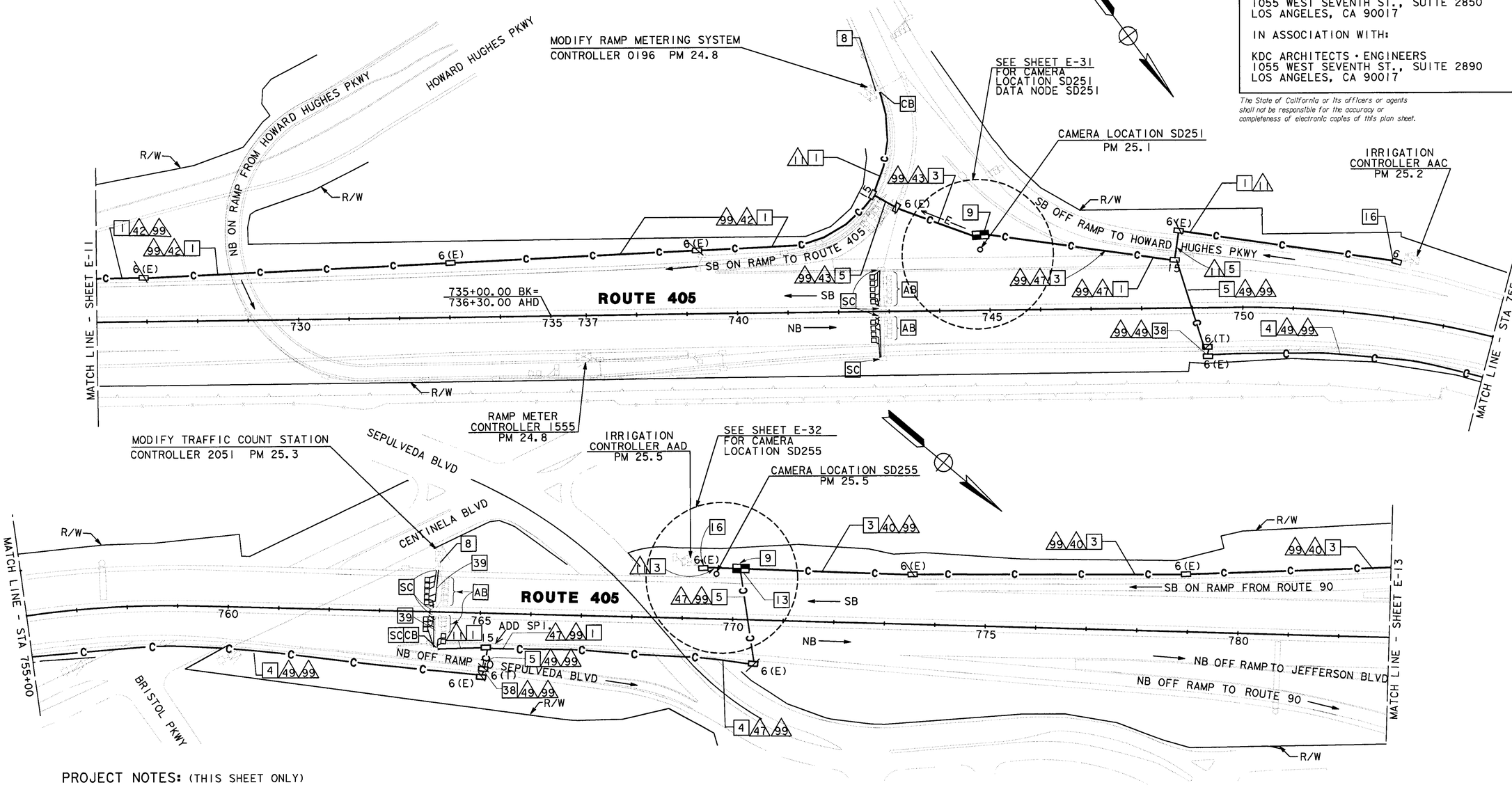
AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 11	40	42	43	47	48	49	50	99
75P22 CABLE	COMMUNICATION DATA		1	1	1	1	1	1	1	
6P22 CABLE	CONTROLLER DATA	1		2	3	1	2		3	
48SMFO	SONET/CCTV TRUNK		1	1	1	1	1	1	1	
24SMFO	HUB TO TMC		1	1	1	1	1	1	1	
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1	1	1					
	INNERDUCT		1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	
	CONDUIT SIZE	2"	4"	4"	4"	4"	4"	4"	4"	4"



PROJECT NOTES: (THIS SHEET ONLY)

38 CORE DRILL 2-6" HOLES THROUGH RETAINING WALL AND BELOW GRADE SURFACE. 4" CONDUIT WILL RUN THROUGH CORE DRILLED HOLES IN WALL. SEE SHEET C-8 FOR DETAILS.

39 ADD 6P22 CABLE IN EXISTING CONDUIT.

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-12

AD	CF	JKB	REVISED BY	DATE REVISED	DATE 3/94	RL	CALCULATED/ DESIGNED BY
9/94	9/94	7/94			3/94	RS	CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

TIME PLOTTED => $$$$$$SYTIME$$$$$$

LAST REVISION 00-00-00

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u13.dgn DATE: Mon Jun 26 2000 TIME: 09:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	55	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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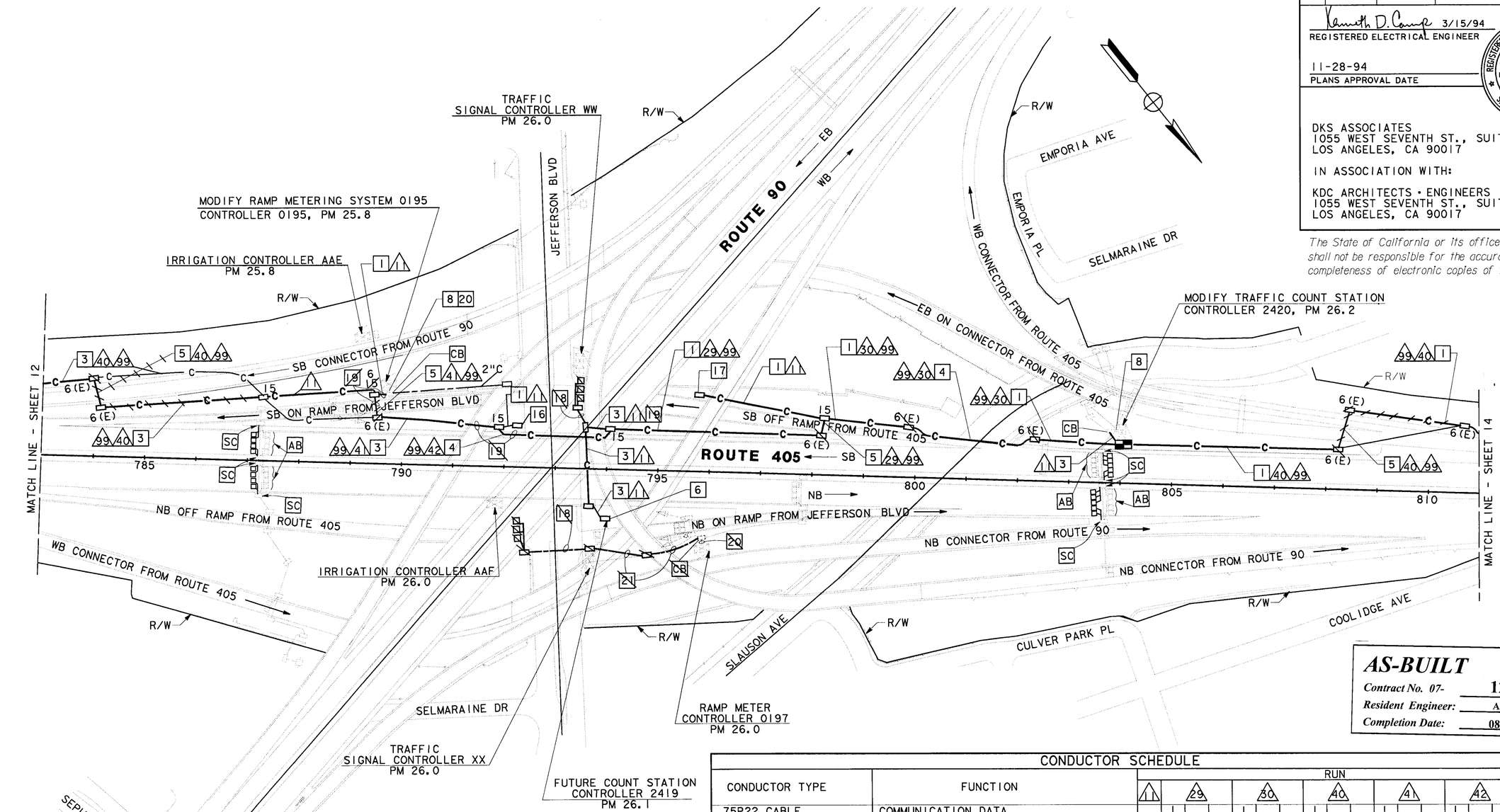
DATE	BY	REVISED BY	DATE REVISED
3/94	RL	RS	3/94
		JKB	7/94
		AD	9/94

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**



PROJECT NOTE: (THIS SHEET ONLY)

18 INSTALL 2"C 5 , 3 DLC

19 ADD 3 DLC

20 ADD 3 DCL INTO EXISTING RAMP METERING CONTROLLER CABINET

21 INSTALL 1½"C 3 , 3 DLC

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	29	30	40	41	42	99
75P22 CABLE	COMMUNICATION DATA	1	1	1	1	1	1	1
6P22 CABLE	CONTROLLER DATA	1	3	4		1	2	
48SMFO	SONET/CCTV TRUNK		1	1	1	1	1	1
24SMFO	HUB TO TMC		1	1	1	1	1	1
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1	1	1	1	1	1
	INNER DUCT		1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
	CONDUIT SIZE	2"	4"	4"	4"	4"	4"	4"

AS-BUILT
Contract No. 07- **120814**
Resident Engineer: **AMOS, H.**
Completion Date: **08/16/1999**

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-13

LAST REVISION — TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u13.dgn DATE: Mon Jun 26 2000 TIME: 09:40

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u14.dgn DATE: Mon Jun 26 2000 TIME: 09:41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	56	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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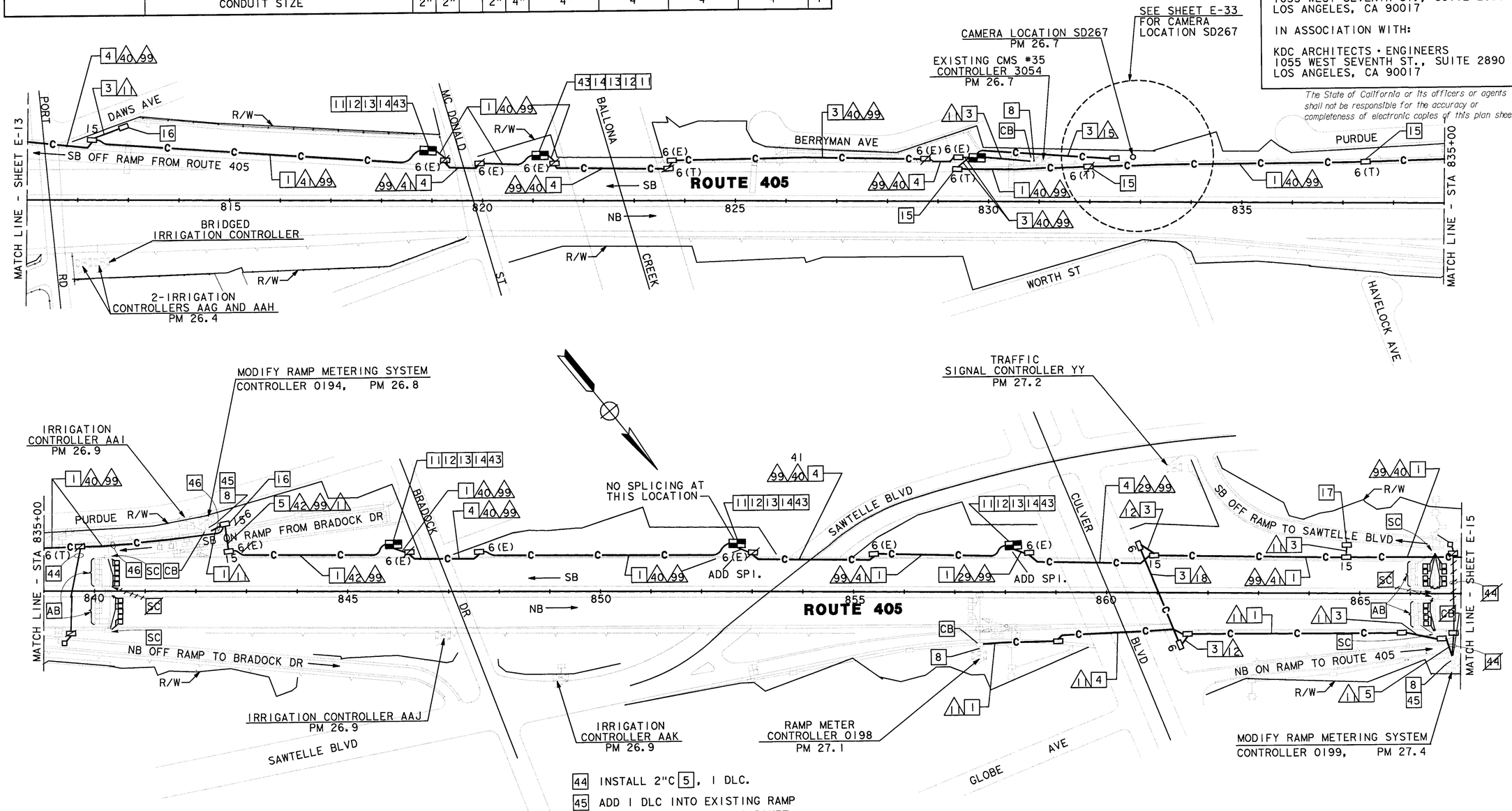
AS-BUILT
Contract No. 07- **120814**
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN /1	/2	/5	/8	/29	/40	/41	/42	/99
75P22 CABLE	COMMUNICATION DATA					1	1	1	1	
6P22 CABLE	CONTROLLER DATA	1	2	1	2	3			2	
48SMFO	SONET/CCTV TRUNK						1	1		
24SMFO	HUB TO TMC						1	1	1	
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION					1				
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO			1						
2SMFO	INNERDUCT					1 1/4"	1 1/4"	1 1/4"	1 1/4"	
	CONDUIT SIZE	2"	2"	2"	4"	4"	4"	4"	4"	4"



PROJECT NOTES: (THIS SHEET ONLY)

43 COIL 100 FEET 6P22 CABLE IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.

44 INSTALL 2"C 5, 1 DLC.

45 ADD 1 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

46 ADD 1 DLC.

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-14

LAST REVISION	TIME PLOTTED => $$$$$$$SYTIME$$$$$$
00-00-00	

DESIGNED BY	CALCULATED/ DESIGNED BY	CHECKED BY	DRAWN BY	DATE REVISED
AD	RL	RS	CT	9/94

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374	EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u14.dgn DATE: Mon Jun 26 2000 TIME: 09:41

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u15.dgn DATE: Mon Jun 26 2000 TIME : 09:41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	57	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

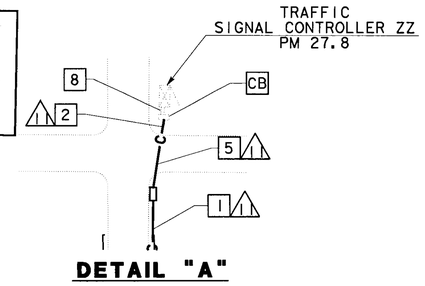
IN ASSOCIATION WITH:

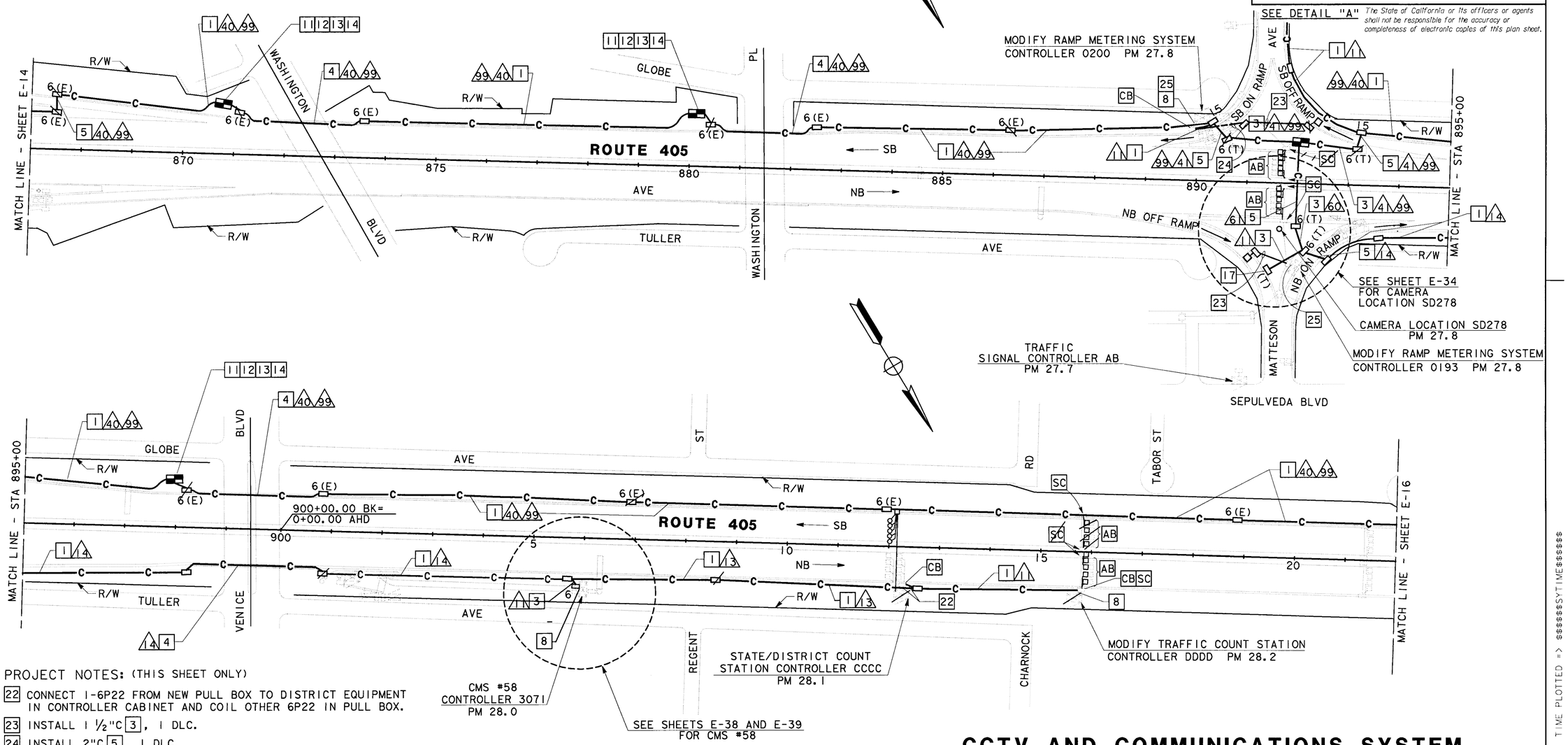
KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 11	13	14	40			41			60	61	99
75P22 CABLE	COMMUNICATION DATA				1			1					
6P22 CABLE	CONTROLLER DATA	1	3	4				1			5	6	
48SMFO	SONET/CCTV TRUNKS						1			1			
24SMFO	HUB TO TMC						1			1			
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION					1			1				
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO											1	
2SMFO	INNERDUCT					1¼"	1¼"		1¼"	1¼"			
	CONDUIT SIZE	2"	2"	2"	4"			4"			4"	4"	4"

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999





PROJECT NOTES: (THIS SHEET ONLY)

22 CONNECT 1-6P22 FROM NEW PULL BOX TO DISTRICT EQUIPMENT IN CONTROLLER CABINET AND COIL OTHER 6P22 IN PULL BOX.

23 INSTALL 1 ½"C 3, 1 DLC.

24 INSTALL 2"C 5, 1 DLC.

25 ADD 1 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET.

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	CHECKED BY	DATE REVISED BY	REVISED BY	DATE REVISED
PAT SULLIVAN	RL	RS	3/94	JKB	7/94
				AD	9/94

TIME PLOTTED => $$$$$$SYTIME$$$$$$

LAST REVISION 00-00-00

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u16.dgn DATE: Mon Jun 26 2000 TIME: 09:42

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN /11	/12	/16	40	41	42	44	99
75P22 CABLE	COMMUNICATION DATA			1		1	1	1	
6P22 CABLE	CONTROLLER DATA	1	2	2		1	2	3	
48SMFO	SONET/CCTV TRUNK				1				1
24SMFO	HUB TO TMC				1	1	1	1	1
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION				1	1	1	1	
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO			1				1	
2SMFO	INNERDUCT				1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	
	CONDUIT SIZE	2"	2"	2"	4"	4"	4"	4"	4"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	58	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

PROFESSIONAL ENGINEER — REGISTERED — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

11-28-94
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

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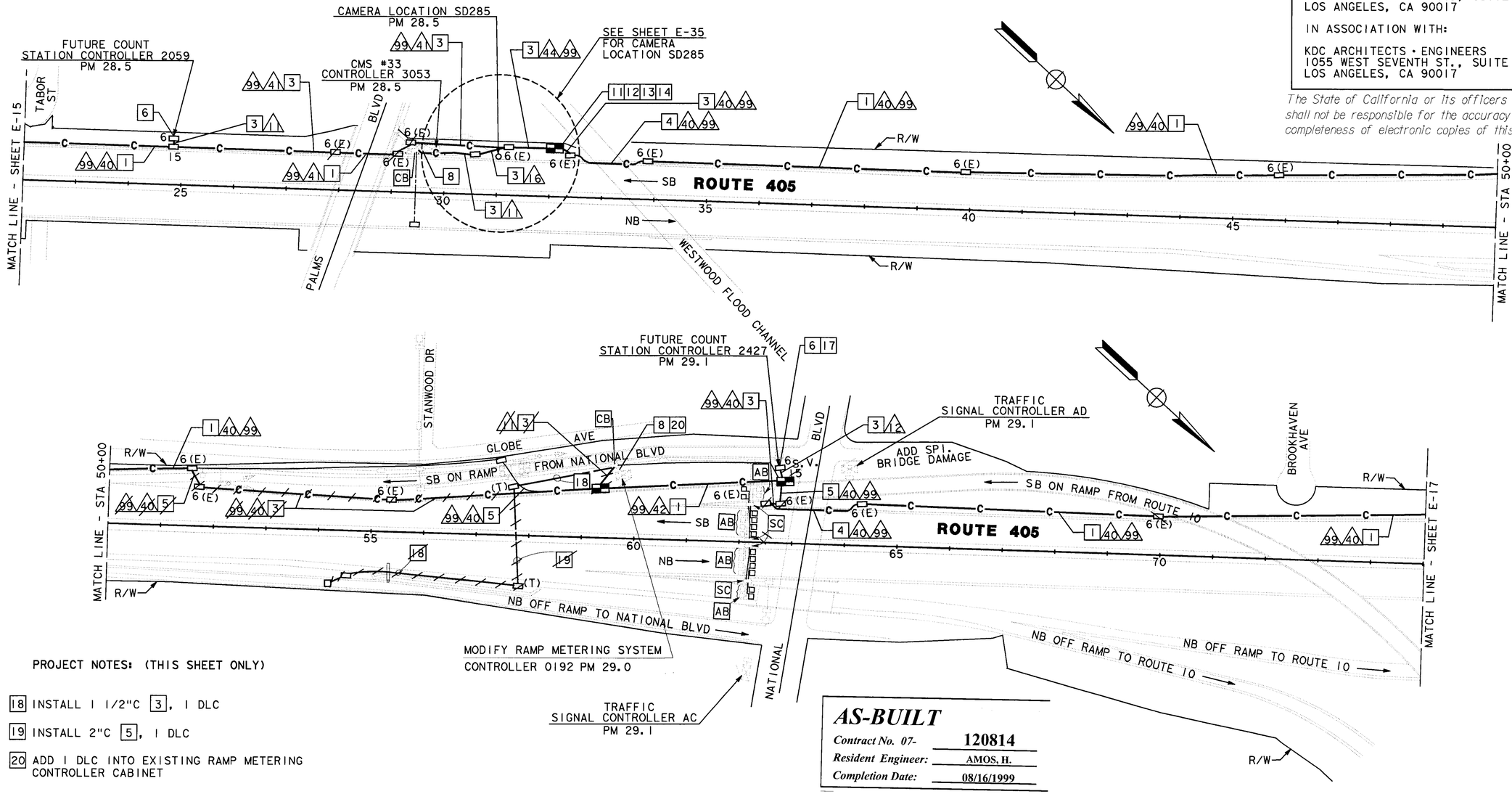

PROJECT NOTES: (THIS SHEET ONLY)

18 INSTALL 1 1/2"C 3, 1 DLC

19 INSTALL 2"C 5, 1 DLC

20 ADD 1 DLC INTO EXISTING RAMP METERING CONTROLLER CABINET

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

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

E-16

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

CALCULATED/ DESIGNED BY	CHECKED BY
RL	RS
DATE 3/94	3/94
REVISED BY	DATE REVISED
JKB	7/94 9/94
AD	

LAST REVISION

TIME PLOTTED => $$$$$$SYSTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u16.dgn DATE: Mon Jun 26 2000 TIME: 09:42

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u17.dgn DATE: Mon Jun 26 2000 TIME: 09:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	59	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST.,
SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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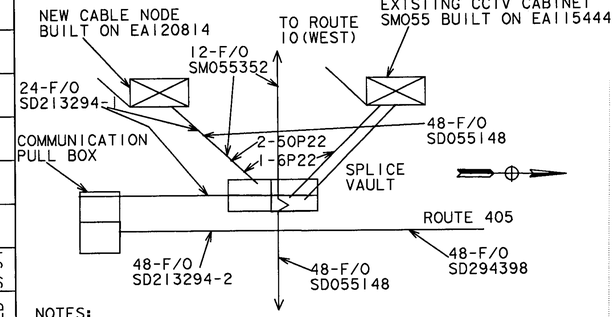
DATE	REVISED BY	DATE REVISED
	AD	9/94

CALCULATED/DESIGNED BY: RL 3/94
CHECKED BY: RS 3/94

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



NOTES:

1. REMOVE THE EXISTING FIBER DISTRIBUTION PANEL FROM THE EXISTING CCTV CABINET AND INSTALL IN THE NEW CABLE NODE
2. RELOCATE THE 48-F/O, SD055148 AND THE 12-F/O, SM055352 CABLES FROM THE EXISTING CCTV CABINET TO THE NEW CABLE NODE.
3. SPLICE OR PATCH FIBERS ACCORDING TO THE ATTACHCED 10 & 405 SPLICE DIAGRAM, DATED 01/06/99
4. RELOCATE THE EXISTING 4-25 TB AND 2-50 PR CABLES FROM THE EXISTING CCTV CABINET TO THE BEW CABLE NODE

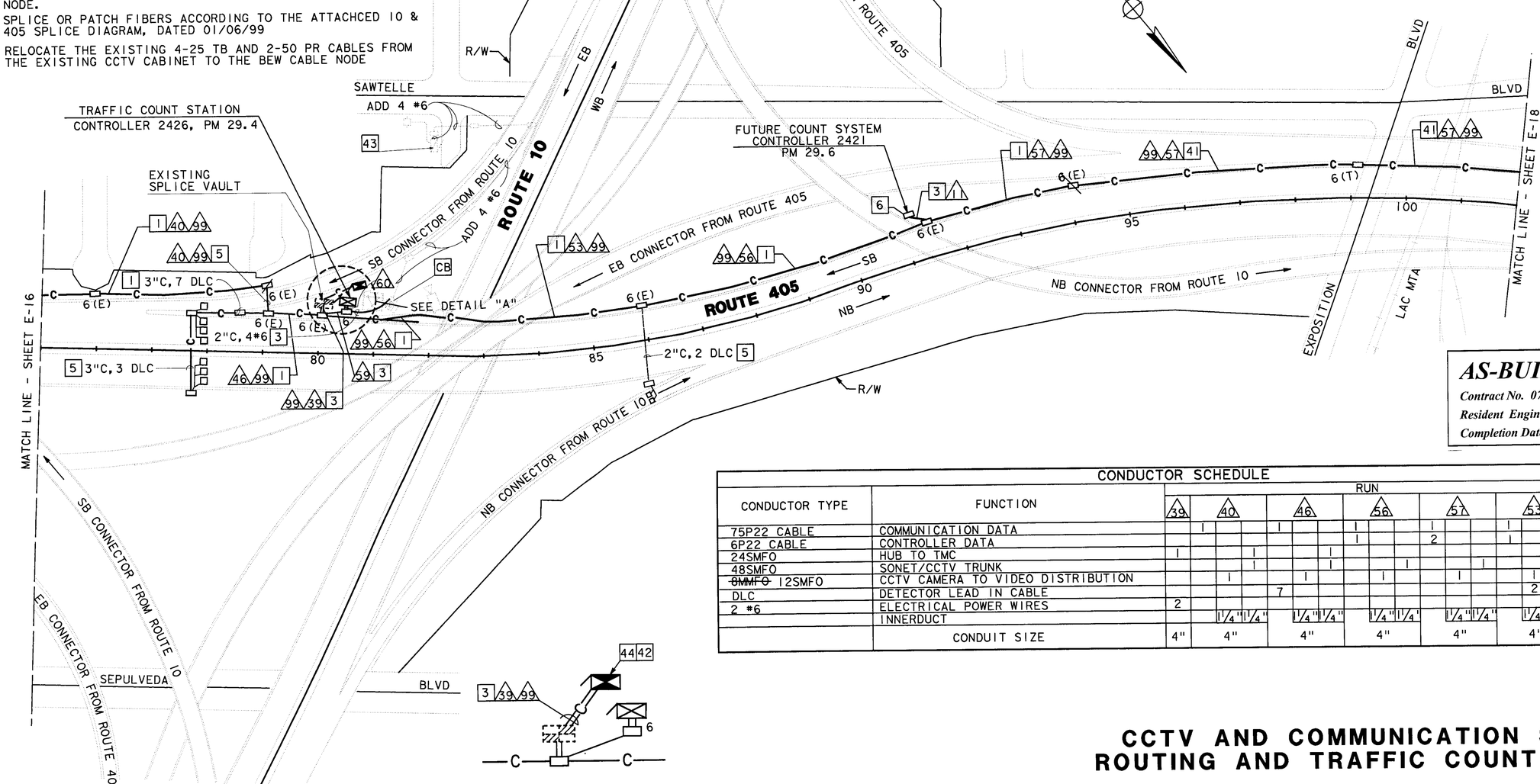
PROJECT NOTES: (THIS SHEET ONLY)

41 ATTACH CONDUIT TO STRUCTURE AS SHOWN ON SHEET C-7, DETAIL 2.

42 TERMINATE EXISTING 48SMFO AND 24SMFO CABLES IN FIBER DISTRIBUTION FRAME AS DIRECTED BY THE ENGINEER.

43 ADD 2-20A, 120V, IP CIRCUIT BREAKERS FOR TRAFFIC COUNT STATION AND CABLE NODE.

44 INSTALL 334 CCTV CABINET AND FIBER DISTRIBUTION FRAME FOR CABLE NODE. INCLUDED IN BID ITEM FOR TRAFFIC COUNT STATION.



DETAIL "A"
NO SCALE

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 39	40	46	56	57	53	59	60	99
75P22 CABLE	COMMUNICATION DATA		1	1	1	1	1			
6P22 CABLE	CONTROLLER DATA				1	2	1	1	1	
24SMFO	HUB TO TMC	1	1	1						
48SMFO	SONET/CCTV TRUNK		1	1	1	1	1			
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1	1	1	1	1			
DLC	DETECTOR LEAD IN CABLE			7			2	9	9	
2 #6	ELECTRICAL POWER WIRES	2						2	2	
	INNERDUCT		1/4"1/4"	1/4"1/4"	1/4"1/4"	1/4"1/4"	1/4"1/4"			
	CONDUIT SIZE	4"	4"	4"	4"	4"	4"	3"	2-3"	4"

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV AND COMMUNICATION SYSTEM ROUTING AND TRAFFIC COUNT STATION

SCALE: 1" = 100'

E-17

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

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u17.dgn DATE: Mon Jun 26 2000 TIME: 09:43

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u18.dgn DATE: Mon Jun 26 2000 TIME: 09:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	60	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST.,
SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:
HRC CONSULTANTS, INC.
67 EAST LIVE OAK AVE., SUITE 201
ARCADIA, CA 91006

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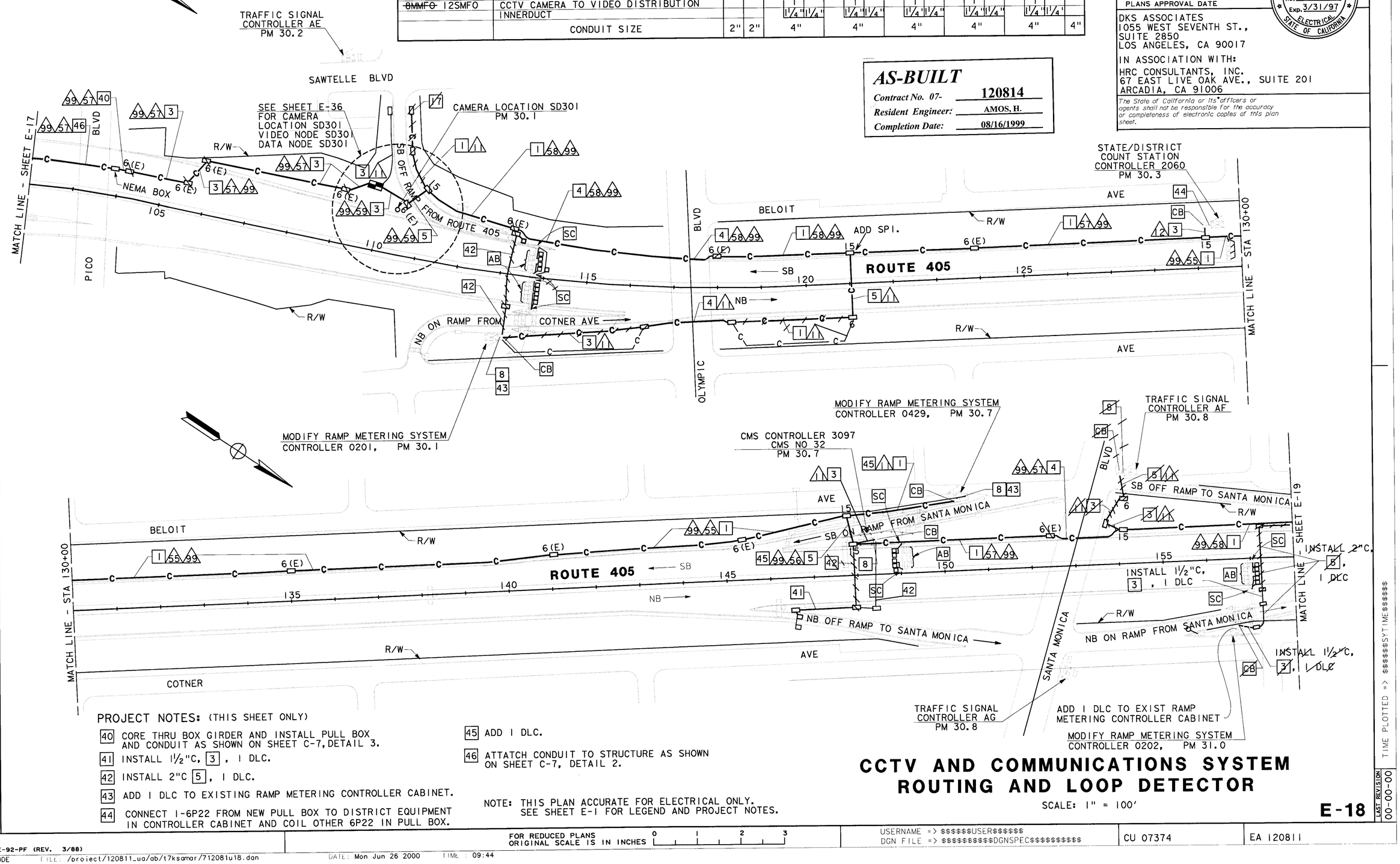
AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 55	RUN 56	RUN 57	RUN 58	RUN 59	RUN 99
75P22 CABLE	COMMUNICATION DATA			1	1				
6P22 CABLE	CONTROLLER DATA	1	2			2	3	4	
48SMFO	SONET/CCTV TRUNK								
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION			1	1	1	1	1	
	INNERDUCT			1¼"I.D.	1¼"I.D.	1¼"I.D.	1¼"I.D.	1¼"I.D.	
	CONDUIT SIZE	2"	2"	4"	4"	4"	4"	4"	4"



CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-18

PROJECT NOTES: (THIS SHEET ONLY)

40 CORE THRU BOX GIRDER AND INSTALL PULL BOX AND CONDUIT AS SHOWN ON SHEET C-7, DETAIL 3.

41 INSTALL 1½"C, 3, 1 DLC.

42 INSTALL 2"C 5, 1 DLC.

43 ADD 1 DLC TO EXISTING RAMP METERING CONTROLLER CABINET.

44 CONNECT 1-6P22 FROM NEW PULL BOX TO DISTRICT EQUIPMENT IN CONTROLLER CABINET AND COIL OTHER 6P22 IN PULL BOX.

45 ADD 1 DLC.

46 ATTATCH CONDUIT TO STRUCTURE AS SHOWN ON SHEET C-7, DETAIL 2.

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

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	CHECKED BY	DRAWN BY	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	JKB	RS	AD	3/94	JKB	7/94
						9/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

LAST REVISION 00-00-00

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FORM DC-OE-92-PF (REV. 3/88)

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u18.dgn DATE: Mon Jun 26 2000 TIME: 09:44

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u19.dan DATE: Mon Jun 26 2000 TIME: 09:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	61	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST.,
SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:
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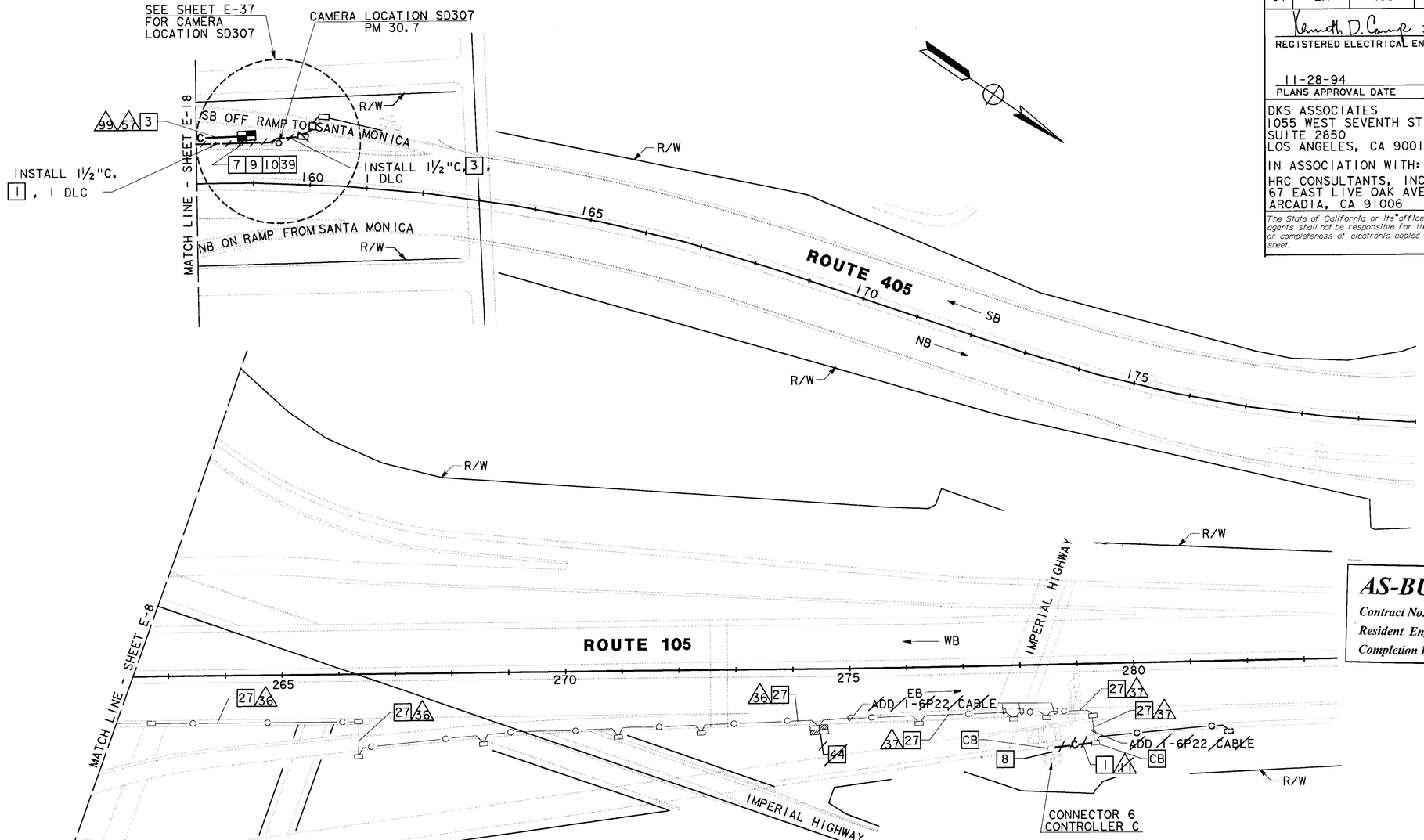

AS-BUILT

Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CONDUCTOR SCHEDULE								
CONDUCTOR TYPE	FUNCTION	RUN						
		11	38	57			99	37
75P22 CABLE	COMMUNICATION DATA		3	1				3
6P22 CABLE	CONTROLLER DATA	~~1~~	~~4~~e	3				~~4~~e
48SMFO	SONET/CCTV TRUNK					1		
24SMFO	DATA/VIDEOS 105 FREEWAY		1e					1e
~~8MMFO~~ 12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION				1			
	INNERDUCT				1¼"¶1¼"			
	CONDUIT SIZE	2"	2" (e)		4"		4"	4"e

"e" EXISTING CONDUITS AND CABLES

PROJECT NOTES: (THIS SHEET ONLY)

39 COPPER TWISTED CABLE, 48SMFO AND 8MMFO CABLES ~~TO BE LATER CONNECTED TO OTHER PROJECT~~. CONNECTION BY OTHERS.

44 ~~EXISTING SPLICE ONTO 24SMFO FROM THE I-105 CCTV SYSTEM. I05 SYSTEM AND I-6P22 TO BE CONNECTED INTO 405/I05 HUB.~~

27 ~~USE~~ EXISTING 2" GALVANIZED STEEL CONDUIT AND PULL BOXES IN STRUCTURE FOR EQUIPMENT CONNECTION FROM I05 TO COMMUNICATIONS HUB. ~~I-6P22 FOR 405/I05 CONNECTOR METERING ON I-I05.~~

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

E-19

DATE	REVISED BY
3/94	RL
3/94	RS
7/94	JKB

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FORM DC-OE-92-PF (REV. 3/88)

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CU 07374

EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u19.dan DATE: Mon Jun 26 2000 TIME: 09:44

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u20.dgn DATE: Mon Jun 26 2000 TIME: 09:45

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUCTOR TYPE	FUNCTION	RUN 1	2	3	4
2 .8SMFO B/O	TUNNEL CAMERA TRUNK	5	6		5
2SMFO B/O	CONNECTOR 5 CAMERA CABLE			1	
	CONDUIT SIZE	1"	1" (e)	3/4"	2" (e)

"e" EXISTING CONDUIT AND CABLES.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	62	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
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IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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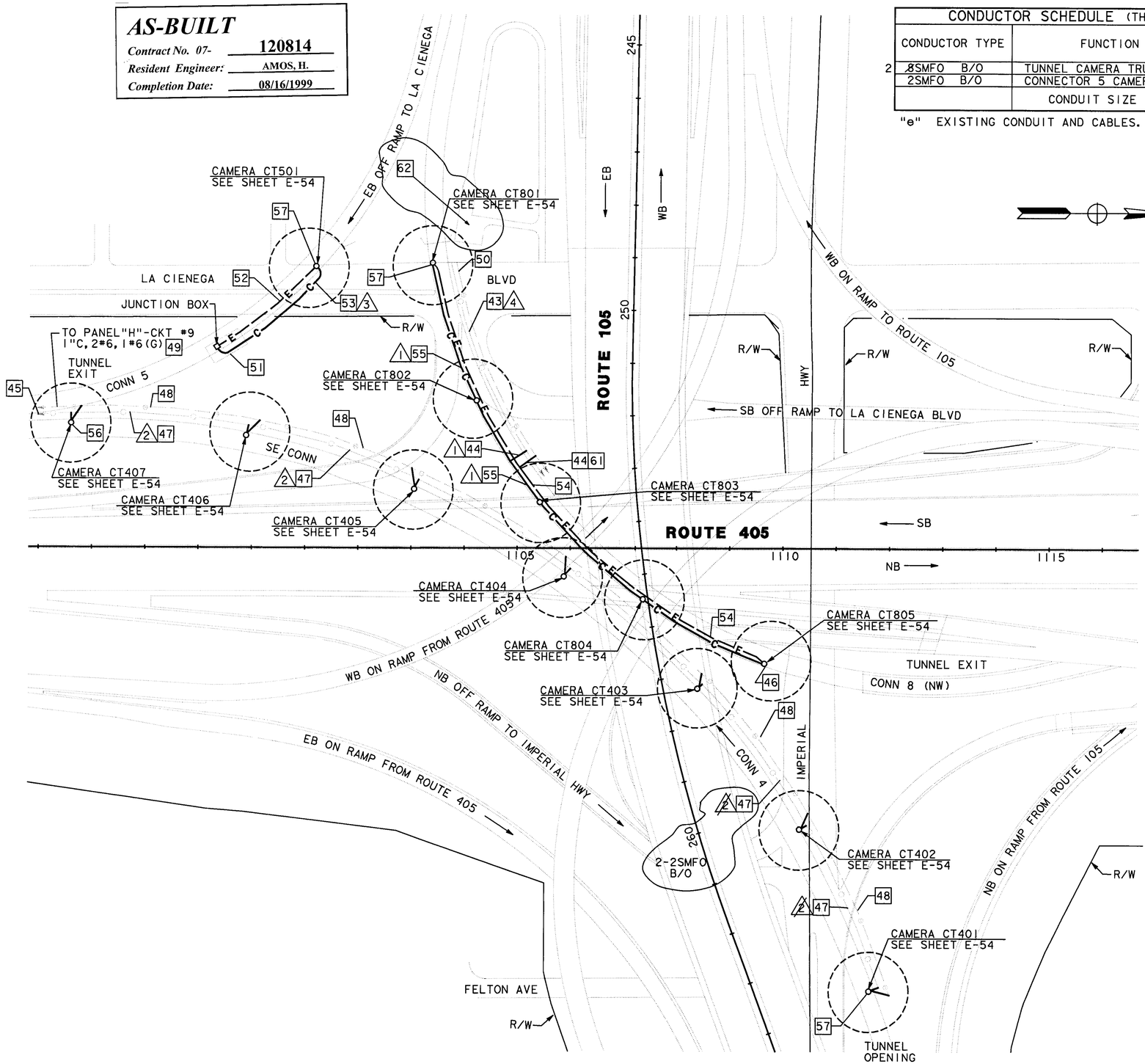

NOTES: (THIS SHEET ONLY)

43 USE EXISTING 2" CCTV CONDUIT IN TUNNEL CORRIDOR.

44 INSTALL 1" GALVANIZED STEEL CONDUIT ACROSS TUNNEL IN BOX GIRDER. SEE SHEETS E-54 AND C-7, DETAILS 5 THROUGH 8.

45 USE EXISTING (SPARE) 1" CONDUIT FROM VENTILATION BUILDING NO 4 TO THE TUNNEL FOR COMMUNICATION CABLE.

46 CAMERA CT805 TO BE PLACED APPROXIMATELY 250 FEET FROM EXIT OF TUNNEL.

47 INSTALL COMMUNICATION CABLE IN EXISTING 1" GALVANIZED STEEL CONDUIT IN SERVICE CORRIDOR.

48 INSTALL 2#6 AND 1#8(G) IN EXISTING 1" GALVANIZED STEEL CONDUIT IN SERVICE CORRIDOR FOR ELECTRICAL CABLES.

49 PANEL "H"-CKT #9 IN VENTILATION BUILDING NO 4. ADD 20A, 120V, 1P CIRCUIT BREAKER.

50 ADD 2#6 AND 1#8(G) IN EXISTING 1" CONDUIT IN SERVICE CORRIDOR TO PANEL "H"-CKT #10 IN VENTILATION BUILDING NO 8. ADD 20A, 120V, 1P CIRCUIT BREAKER TO PANEL.

51 ADD 2#12 AND 1#12(G) IN EXISTING CONDUIT TO PANEL "H1" IN VENTILATION BUILDING NO 5. ADD 20A, 120V, 1P CIRCUIT BREAKER TO PANEL.

52 INSTALL 3/4"GALVANIZED STEEL CONDUIT AND 2#12, 1#12(G) FROM EXISTING JUNCTION BOX BELOW VENTILATION BUILDING NO 5.

53 INSTALL 3/4" GALVANIZED STEEL CONDUIT FROM EXISTING JUNCTION BOX BELOW VENTILATION BUILDING NO 5.

54 INSTALL 2"C, 2#8, 1#8(G) ON WALL OF TUNNEL FOR ELECTRICAL SERVICE, SEE SHEET E-54 FOR DETAILS.

55 INSTALL 1"C ON WALL OF TUNNEL FOR COMMUNICATION CABLE, SEE SHEET E-54 FOR DETAILS.

56 CAMERA CT407 TO BE MOUNTED WITHIN 4 FEET OF THE EXIT OF CONNECTOR TUNNEL NO 4 FACING SOUTH.

57 CAMERAS CT401, CT501 AND CT801 TO BE MOUNTED FIFTY (50) FEET FROM THE ENTRANCE OF THE RESPECTIVE TUNNEL.

58. ALL CAMERAS TO MOUNTED FACING THE REAR OF VEHICLES.

59. ALL CAMERAS EXCEPT CT407 ARE MONOCHROME. CAMERA CT407 IS COLOR.

60. INTERIOR CAMERAS SHALL BE EQUALLY SPACED. SPACING MAY BE VARIED UP TO 15 FEET CLEAR OF OBSTRUCTIONS.

61 INSTALL 2#6 AND 1#8(G).

62 INSTALL 12-FIBER PERMISES INTERCONNECT CENTER (PIC) AND SPIDER FAN-OUT-KETS

TUNNEL CCTV CAMERA SYSTEM

SCALE: 1" = 100'

E-20

DATE	REVISED BY	DATE REVISED
3/94	RL	RS 3/94

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FORM DC-OE-92-PF (REV. 3/88)
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DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$
CU 07374
EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u20.dgn DATE: Mon Jun 26 2000 TIME: 09:45

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u21.dgn DATE: Mon Jun 26 2000 TIME : 09:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	63	151

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

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1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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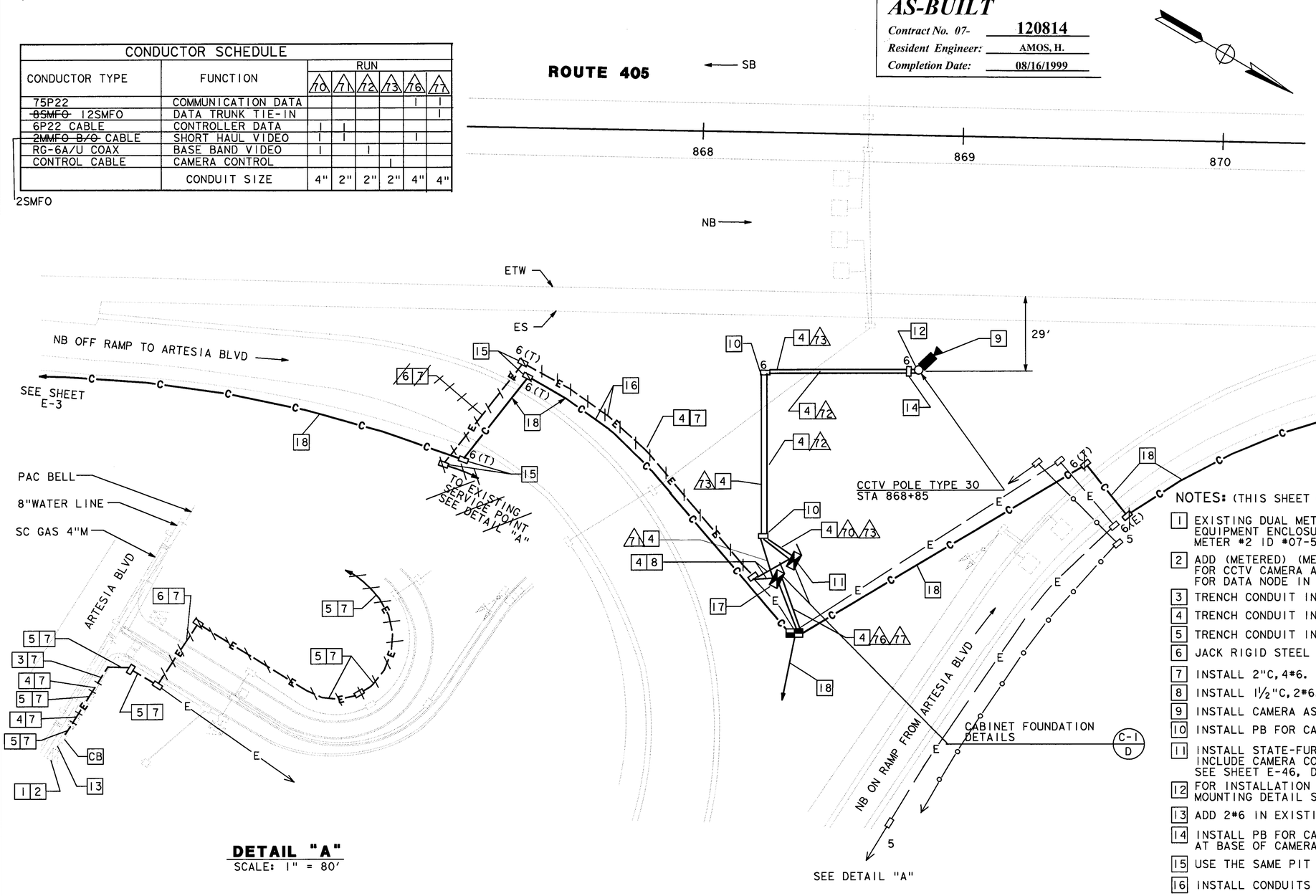
CONDUCTOR SCHEDULE								
CONDUCTOR TYPE	FUNCTION	RUN /10	/11	/12	/13	/16	/17
75P22	COMMUNICATION DATA					1	1
~~85MFO~~ 12SMFO	DATA TRUNK TIE-IN						1
6P22 CABLE	CONTROLLER DATA	1	1				
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			1	
RG-6A/U COAX	BASE BAND VIDEO	1		1			
CONTROL CABLE	CAMERA CONTROL				1		
	CONDUIT SIZE	4"	2"	2"	2"	4"	4"

2SMFO



DETAIL "A"
SCALE: 1" = 80'

CAMERA LOCATION SD166,
DATA NODE SD166, PM 16.6
SCALE: 1' = 20'

NOTES: (THIS SHEET ONLY)

1. EXISTING DUAL METER, 120/240V, 3 WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE: METER #1 ID #07-53-405-0-016.601 METER #2 ID #07-53-405-0-016.602.
2. ADD (METERED) (METER #2) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA AND 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR DATA NODE IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN CONCRETE.
4. TRENCH CONDUIT IN SOIL.
5. TRENCH CONDUIT IN ASPHALT.
6. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
7. INSTALL 2"C, 4#6.
8. INSTALL 1½"C, 2#6.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL C.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
13. ADD 2#6 IN EXISTING CONDUIT.
14. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
15. USE THE SAME PIT FOR JACKING CONDUITS.
16. INSTALL CONDUITS IN THE SAME TRENCH.
17. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE TWO D4 CHANNEL BANKS FOR DATA NODE. SEE SHEET E-46, DETAIL C. INCLUDED IN BID ITEM "EQUIPMENT AT DATA NODE LOCATION SD166"
18. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

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

CCTV CAMERA AND EQUIPMENT AT DATA NODE (LOCATION SD166)

SCALE AS NOTED

E-21

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	CHECKED BY	DP	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	JKB	CF	CF	3/94	CF	9/94	JKB	9/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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FORM DC-OE-92-PF (REV. 3/88)

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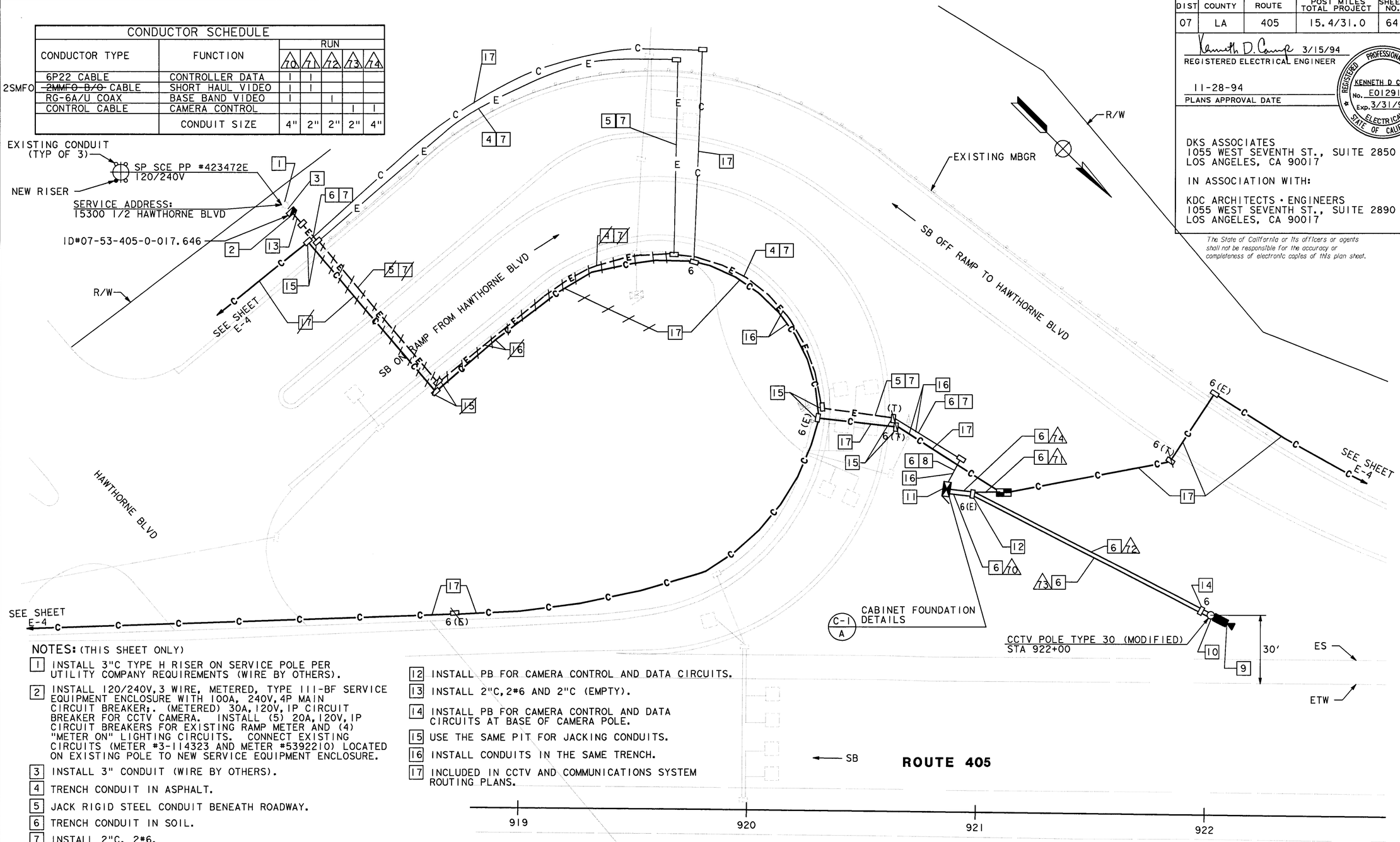
CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u21.dgn DATE: Mon Jun 26 2000 TIME : 09:46

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u22.dgn DATE: Mon Jun 26 2000 TIME : 09:47

CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN /10	/11	/12	/13	/14
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO ~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"



NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (WIRE BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER;. (METERED) 30A, 120V, IP CIRCUIT BREAKER FOR CCTV CAMERA. INSTALL (5) 20A, 120V, IP CIRCUIT BREAKERS FOR EXISTING RAMP METER AND (4) "METER ON" LIGHTING CIRCUITS. CONNECT EXISTING CIRCUITS (METER #3-114323 AND METER #5392210) LOCATED ON EXISTING POLE TO NEW SERVICE EQUIPMENT ENCLOSURE.
3. INSTALL 3" CONDUIT (WIRE BY OTHERS).
4. TRENCH CONDUIT IN ASPHALT.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. TRENCH CONDUIT IN SOIL.
7. INSTALL 2"C, 2#6.
8. INSTALL 1½"C, 2#6.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
12. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
13. INSTALL 2"C, 2#6 AND 2"C (EMPTY).
14. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
15. USE THE SAME PIT FOR JACKING CONDUITS.
16. INSTALL CONDUITS IN THE SAME TRENCH.
17. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

CAMERA LOCATION SD177, PM 17.7

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	64	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

11-28-94
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV CAMERA (LOCATION SD177)

SCALE: 1" = 20'

E-22

DATE	REVISED BY	DP	CALCULATED/ DESIGNED BY
3/94	DATE REVISED	CF	CHECKED BY

DESIGN OVERSIGHT — PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => $$$$$$SYYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u22.dgn DATE: Mon Jun 26 2000 TIME : 09:47

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u23.dgn DATE: Mon Jun 26 2000 TIME: 09:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	65	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

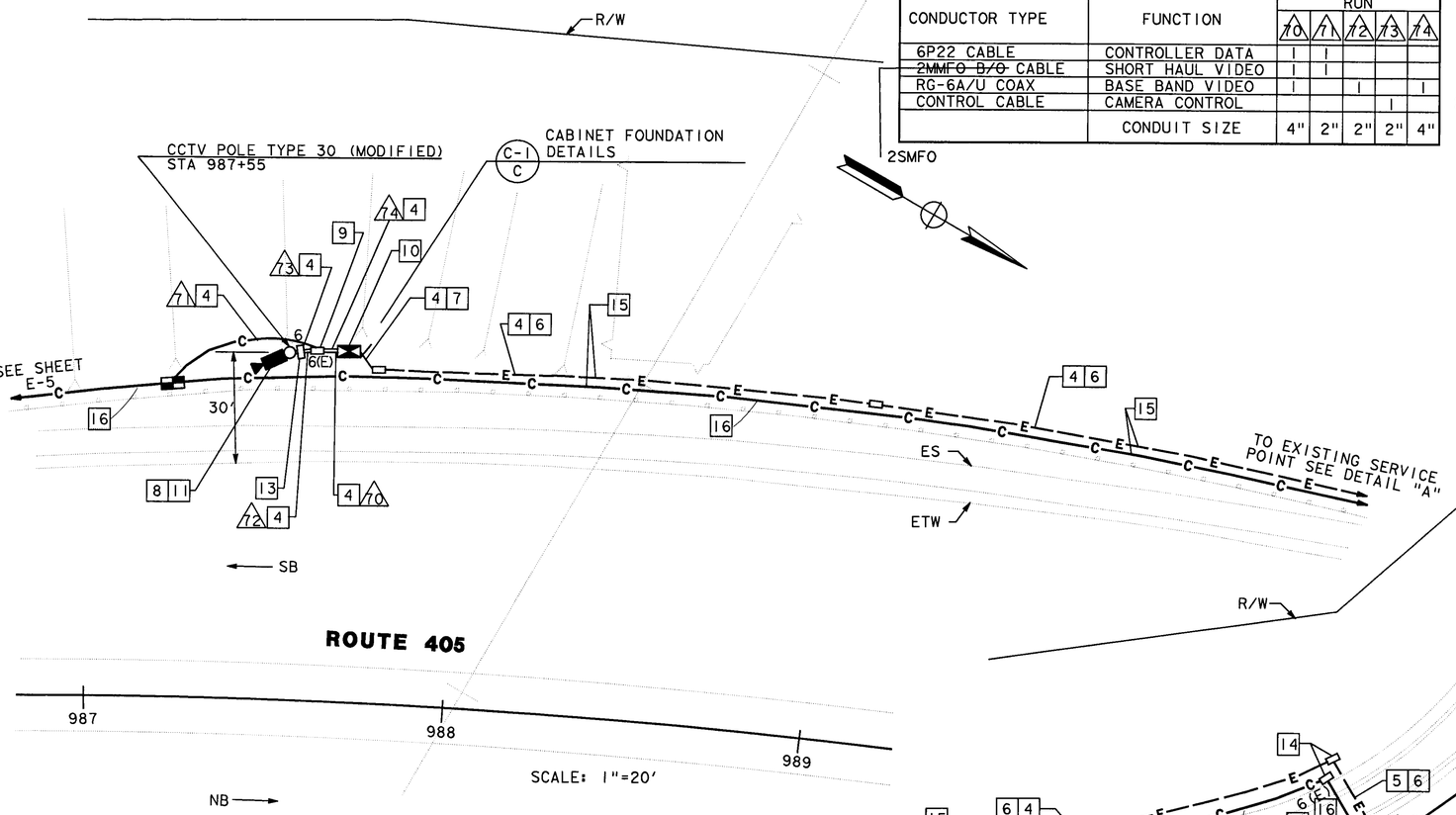
DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

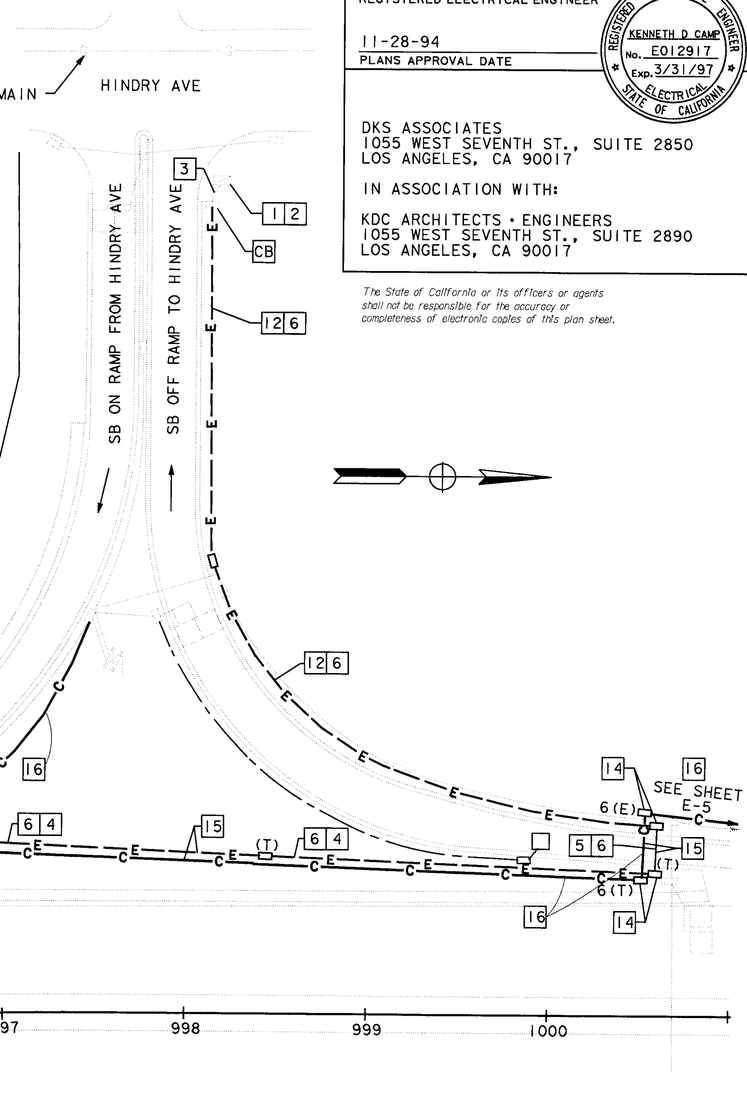
IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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.

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN /0	/1	/2	/3	/4
6P22 CABLE	CONTROLLER DATA	1	1			
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		1
CONTROL CABLE	CAMERA CONTROL				1	
	CONDUIT SIZE	4"	2"	2"	2"	4"





DETAIL A
SCALE: 1" = 40'

CAMERA LOCATION SD189, PM 18.9

NOTES: (THIS SHEET ONLY)

1. EXISTING DUAL METER, 120/240V, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE PP#1270515E. ID#07-53-405-0-019.074
2. ADD (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. ADD 2#2 IN EXISTING CONDUIT.
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. INSTALL 2"C, 2#2.
7. INSTALL 1½"C, 2#2.
8. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE - FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
12. TRENCH CONDUIT IN ASPHALT.
13. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
14. USE THE SAME PIT FOR JACKING CONDUITS.
15. INSTALL CONDUITS IN THE SAME TRENCH.
16. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLAN.

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

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV CAMERA (LOCATION SD189)

SCALE AS NOTED

E-23

CALCULATED/ DESIGNED BY	DATE	REVISED BY
DP	3/94	
CF	3/94	DATE REVISED
CHECKED BY		

DESIGN OVERSIGHT — PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => $$$$$$$SYSTIME$$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u23.dgn DATE: Mon Jun 26 2000 TIME: 09:47

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u24.dgn DATE: Mon Jun 26 2000 TIME: 09:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	66	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

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DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

DATE	REVISED BY
3/94	DATE REVISED

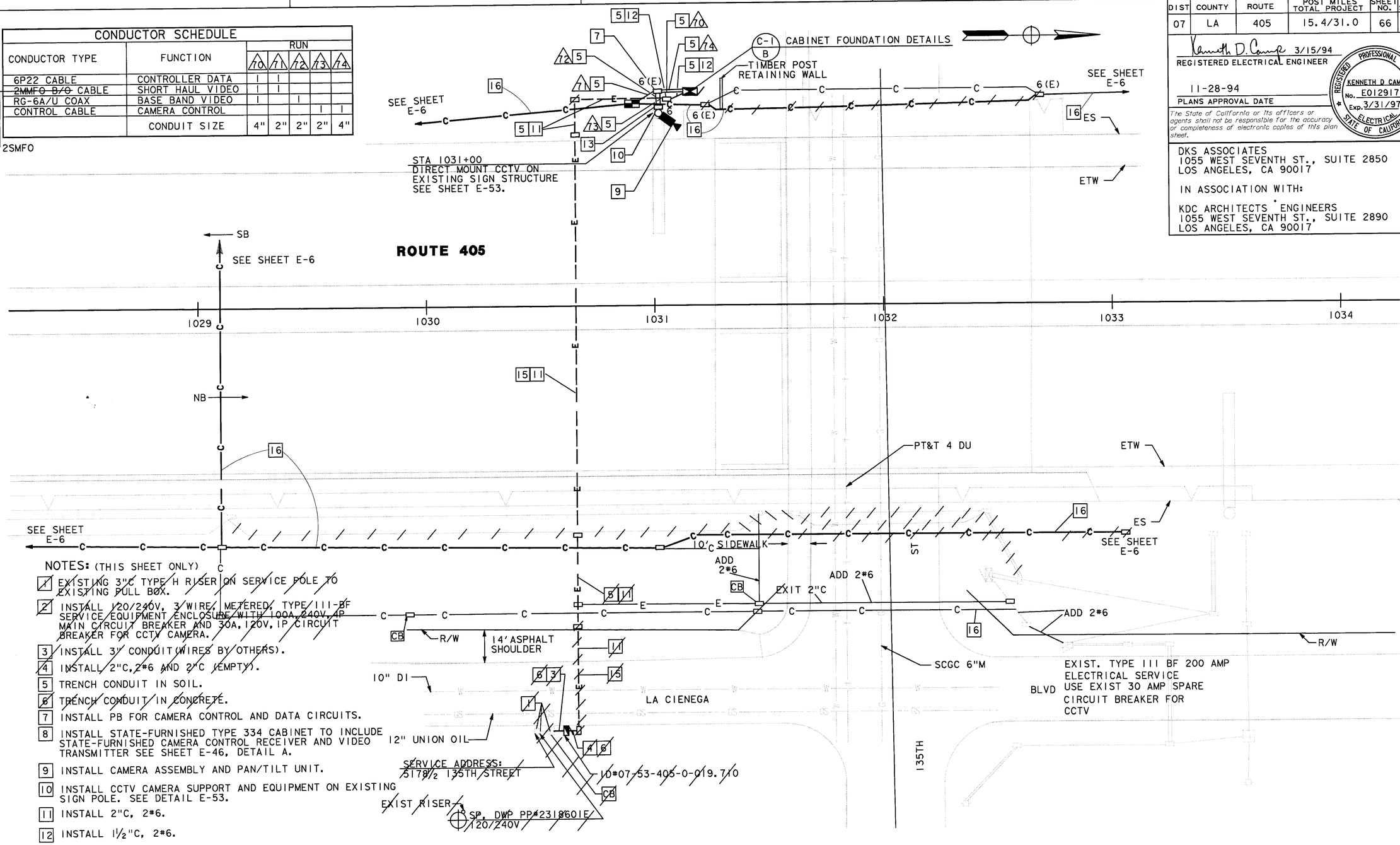
DP	CALCULATED/ DESIGNED BY
CF	CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN /0	/1	/2	/3	/4
6P22 CABLE	CONTROLLER DATA	1	1			
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

2SMFO



NOTES: (THIS SHEET ONLY)

1. EXISTING 3"C TYPE H RISER ON SERVICE POLE TO EXISTING PULL BOX.
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA.
3. INSTALL 3" CONDUIT (WIRES BY OTHERS).
4. INSTALL 2"C, 2#6 AND 2"C (EMPTY).
5. TRENCH CONDUIT IN SOIL.
6. TRENCH CONDUIT IN CONCRETE.
7. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
8. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER SEE SHEET E-46, DETAIL A.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. INSTALL CCTV CAMERA SUPPORT AND EQUIPMENT ON EXISTING SIGN POLE. SEE DETAIL E-53.
11. INSTALL 2"C, 2#6.
12. INSTALL 1½"C, 2#6.
13. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF SIGN POLE.
14. TRENCH CONDUIT IN ASPHALT.
15. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
16. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

CAMERA LOCATION SD197, PM 19.7

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

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV CAMERA (LOCATION SD197)

SCALE: 1" = 20'

E-24

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$SYTIME$$$$$$

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

FORM DC-OE-92-PF (REV. 3/88)

$$$$$$$$$$DGNSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USER$$$$$$

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u24.dgn DATE: Mon Jun 26 2000 TIME: 09:48

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (WIRES BY OTHERS).
2. INSTALL 120/240V, 3 WIRE TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA.
3. INSTALL 3"CONDUIT (WIRES BY OTHERS).
4. TRENCH CONDUIT IN SOIL.
5. TRENCH CONDUIT IN CONCRETE & ROCK SLOPE.
6. INSTALL 2"C, 2#6 & 2"C (EMPTY).
7. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
8. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
9. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER SEE SHEET E-46, DETAIL A.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
12. INSTALL 2"C, 2#6.
13. INSTALL 1½"C, 2#6.
14. INSTALL CONDUITS IN THE SAME TRENCH.
15. SEE SHEET L-1 FOR LAYOUT.
16. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
17. TRENCH CONDUIT IN ASPHALT.

CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN				
		10	11	12	13	14
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO ~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	67	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

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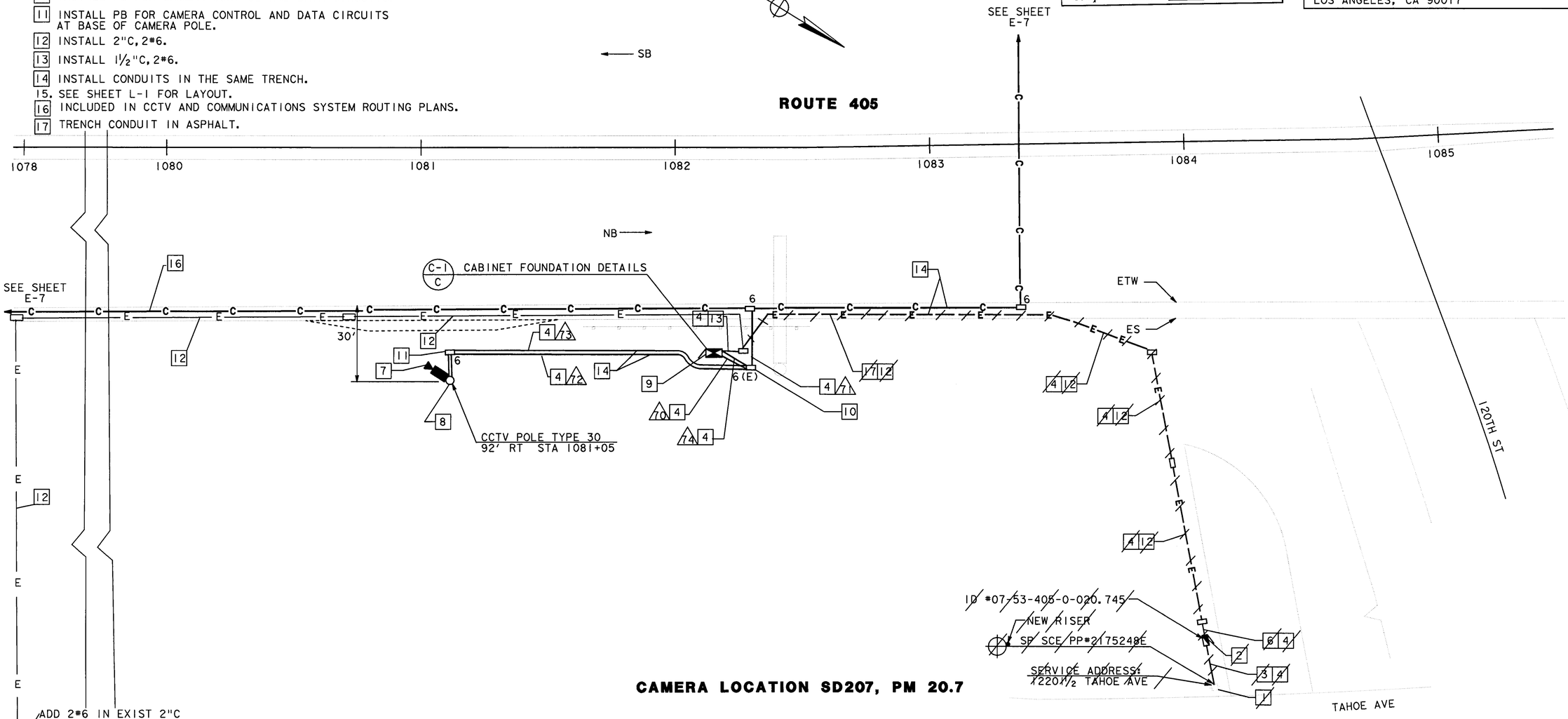
DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017



CAMERA LOCATION SD207, PM 20.7

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

CCTV CAMERA (LOCATION SD207)

SCALE: 1" = 20'

E-25

DATE	REVISED BY	DATE REVISED
3/94	DP	CF 3/94

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$SYTIME$$$$$$

$$$$$$$$$$DGNSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USER$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

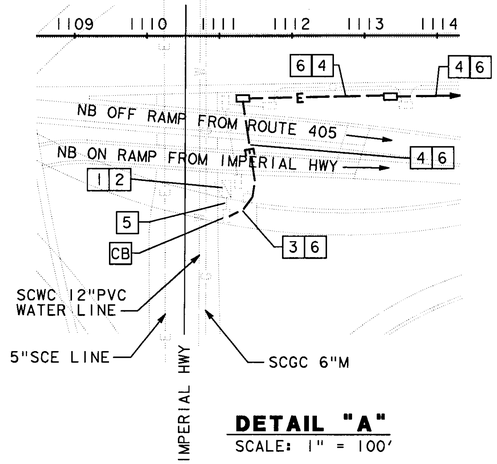
CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u26.dgn DATE: Mon Jun 26 2000 TIME: 09:50

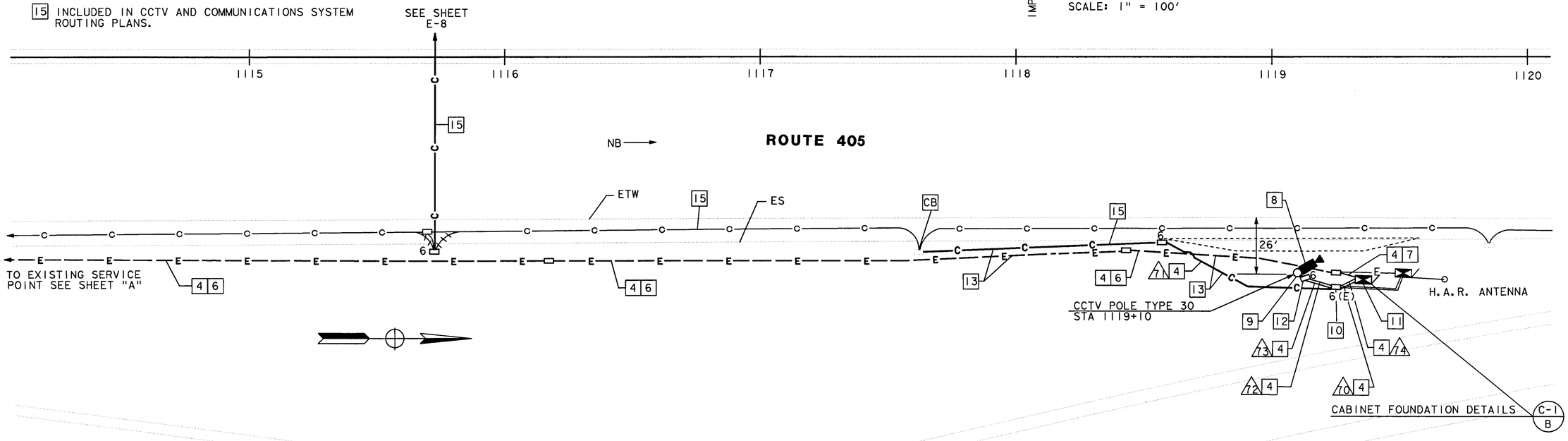
NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ID#07-53-405-0-021.059
2. ADD (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN ASPHALT.
4. TRENCH CONDUIT IN SOIL.
5. ADD 2#4 IN EXISTING CONDUIT.
6. INSTALL 2"C, 2#4.
7. INSTALL 1½"C, 2#4.
8. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
9. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
12. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
13. INSTALL CONDUIT IN THE SAME TRENCH.
14. SEE SHEET L-2 FOR LAYOUT.
15. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN					
		10	11	12	13	14
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO ~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"



DETAIL "A"
SCALE: 1" = 100'



CAMERA LOCATION SD214, PM 21.4
SCALE: 1"=20'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	68	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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DATE	REVISED BY
3/94	DP
3/94	CF

DATE REVISED
CALCULATED/DESIGNED BY
CHECKED BY
DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV CAMERA (LOCATION SD214)

SCALE AS NOTED

E-26

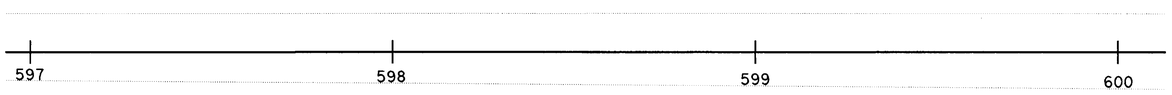
LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYTIME$$$$$$

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u26.dgn DATE: Mon Jun 26 2000 TIME: 09:50

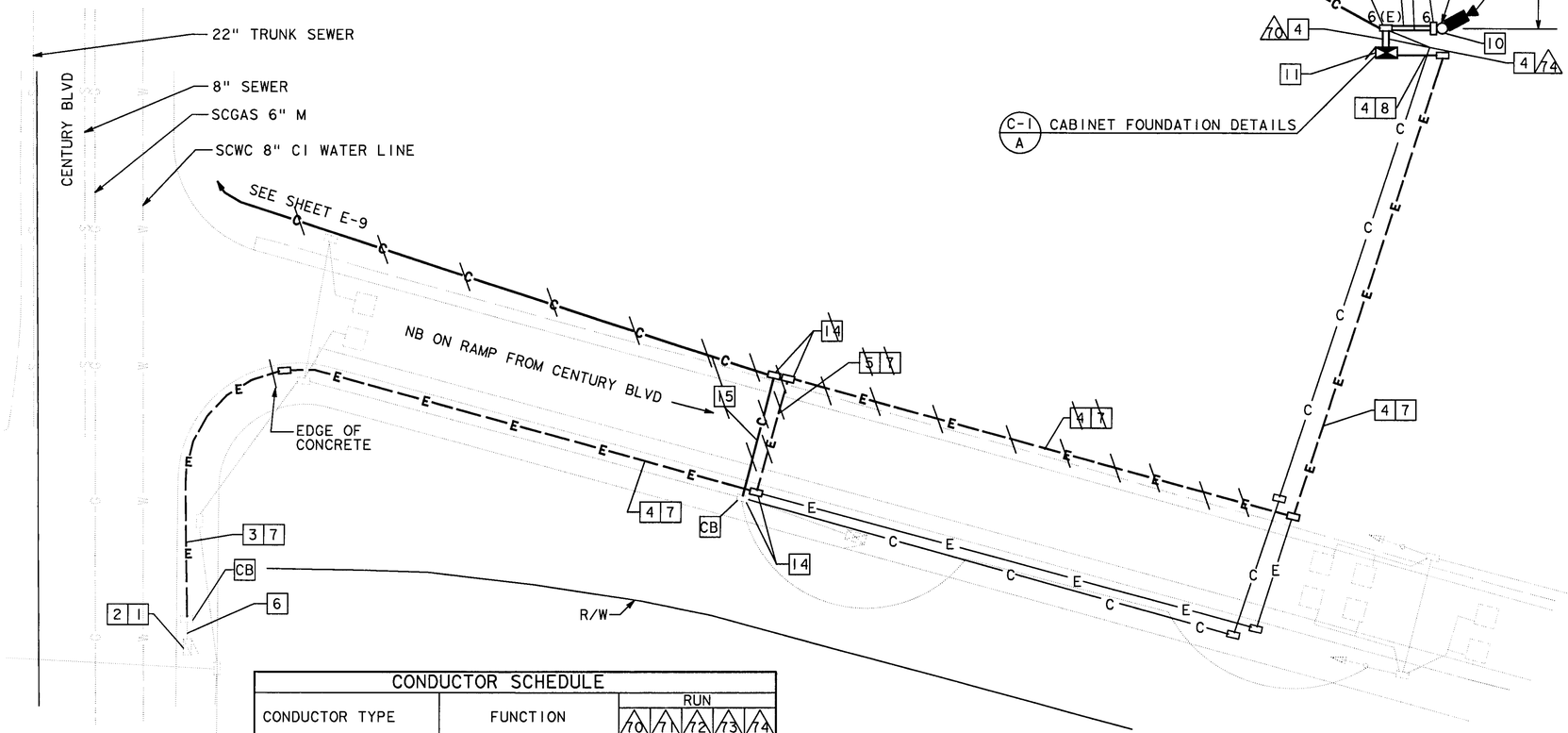
USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u27.dgn DATE: Mon Jun 26 2000 TIME: 09:50

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE PP#20919G, ID#07-53-01OR-010.240.
2. ADD (METERED) 30A.120V,1P CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN CONCRETE.
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. ADD 2#6 IN EXISTING CONDUIT.
7. INSTALL 2"C,2#6.
8. INSTALL 1½"C,2#6.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
12. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
13. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
14. USE THE SAME PIT FOR JACKING CONDUITS.
15. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.



ROUTE 405



CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN /10	/11	/12	/13	/14
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO ~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

CAMERA LOCATION SD224, PM 22.4

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	69	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV CAMERA (LOCATION SD224)

SCALE: 1" = 20'

E-27

DATE	REVISED BY	DATE REVISED
3/94	DP	CF 3/94

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u27.dgn DATE: Mon Jun 26 2000 TIME: 09:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	70	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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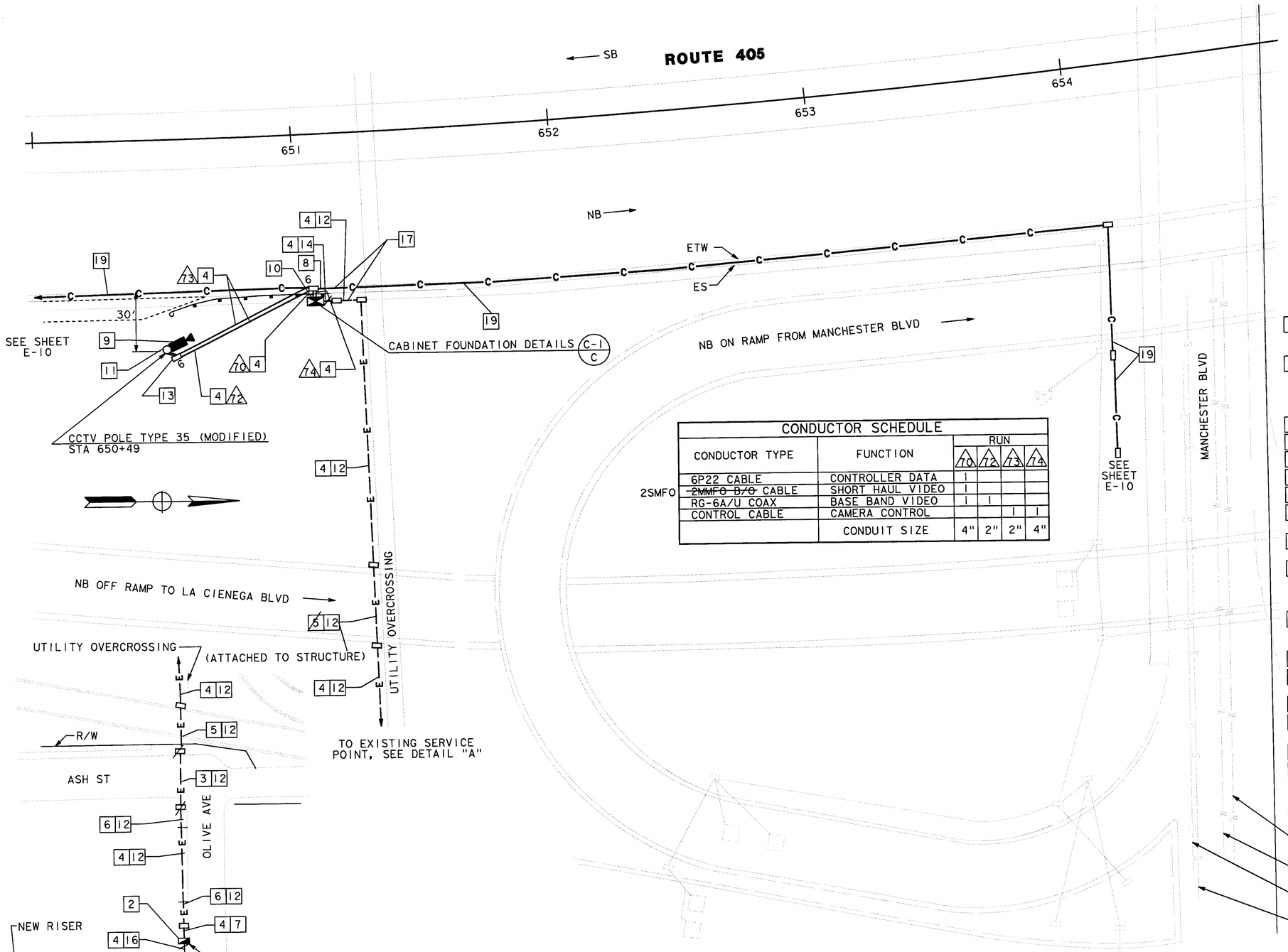


DETAIL "A"
SCALE 1"=50'

CONDUCTOR SCHEDULE					
CONDUCTOR TYPE	FUNCTION	RUN /10	/12	/13	/14
6P22 CABLE	CONTROLLER DATA	1			
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1			
RG-6A/U COAX	BASE BAND VIDEO	1	1		
CONTROL CABLE	CAMERA CONTROL			1	1
	CONDUIT SIZE	4"	2"	2"	4"

2SMFO

CAMERA LOCATION SD233, PM 23.3
SCALE: 1" = 20'

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

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (WIRES BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA.
3. TRENCH CONDUIT IN ASPHALT.
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. TRENCH CONDUIT IN CONCRETE.
7. INSTALL 2"C, 2#6 AND 2"C (EMPTY).
8. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-51 AND E-52.
12. INSTALL 2"C, 2#6.
13. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
14. INSTALL 1½"C, 2#6.
15. AVOID DAMAGING EXISTING IRRIGATION LINE AND SPRINKLER HEADS.
16. INSTALL 3" CONDUIT, WIRES BY OTHERS.
17. INSTALL CONDUITS IN THE SAME TRENCH.
18. SEE SHEET L-3 FOR LAYOUT DETAIL.
19. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

AS-BUILT
Contract No. 07- 120814
Resident Engineer:
Completion Date: 08/16/1999

CCTV CAMERA (LOCATION SD233)

SCALE AS NOTED

E-28

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYTIME$$$$$$$

CALCULATED/DESIGNED BY: DP 3/94 REVISED BY
CHECKED BY: CF 3/94 DATE REVISED
DESIGN OVERSIGHT: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

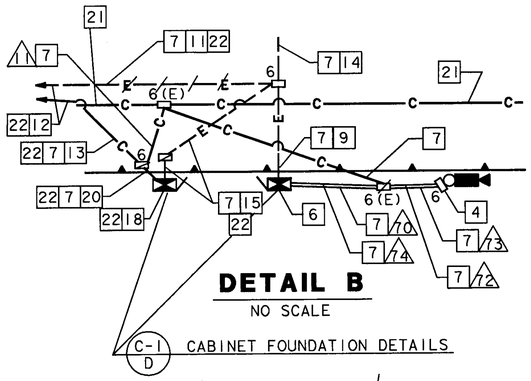
USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u29.dgn DATE: Mon Jun 26 2000 TIME: 09:52

CONDUCTOR SCHEDULE												
CONDUCTOR TYPE	FUNCTION	RUN /1	/10	/11	/12	/13	/14
6P22 CABLE	CONTROLLER DATA	1	1	1			
~~2MMFO B/G~~ CABLE	SHORT HAUL VIDEO		1	1			
RG-6 A/U COAX	BASE BAND VIDEO		1		1		
CONTROL CABLE	CAMERA CONTROL					1	1
	CONDUIT SIZE	2"	4"	2"	2"	2"	4"

2SMFO



DETAIL B
NO SCALE

C-1 D CABINET FOUNDATION DETAILS

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

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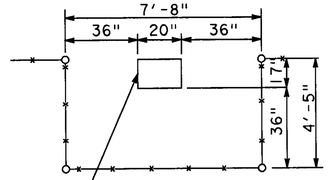
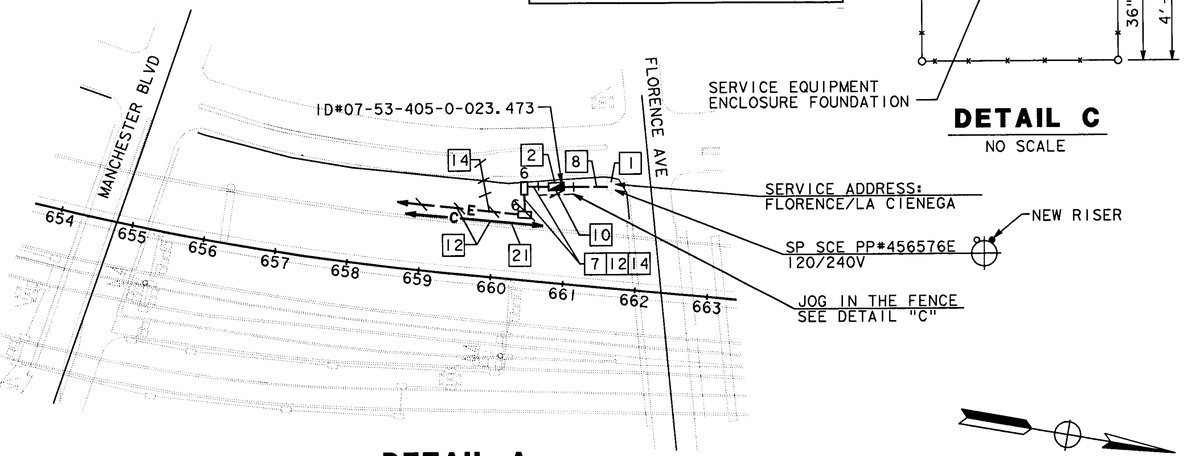
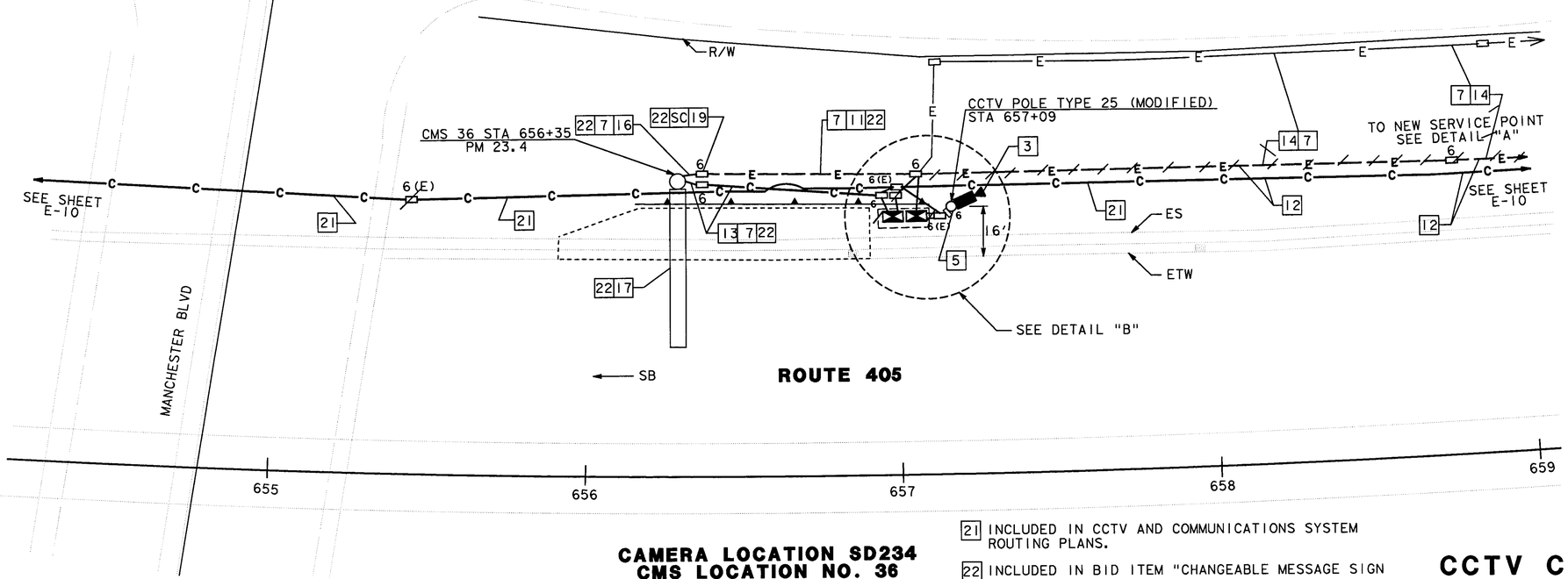


SERVICE EQUIPMENT ENCLOSURE FOUNDATION

DETAIL C
NO SCALE



DETAIL A
SCALE: 1"=100'



CAMERA LOCATION SD234
CMS LOCATION NO. 36
PM 23.4
SCALE: 1"=20'

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE "H" RISER ON SERVICE POLE PER UTILITY COMPANY REQUIRMENTS (WIRES BY OTHERS).
2. INSTALL 120/240V 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSED WITH 200A, 240V, 4P MAIN CIRCUIT BREAKER; (METERED) (4) 80A, 120V, 1P FOR CMS; (3) 30A, 120V, 1P FOR CMS; AND 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA.
3. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
4. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
5. FOR CAMERA INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
6. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE CAMERA TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
7. TRENCH CONDUIT IN SOIL.
8. INSTALL 3"C CONDUIT (WIRE BY OTHERS).
9. INSTALL 1½"C, 2#6.
10. PROVIDE A JOG IN FENCE TO LOCATE NEW SERVICE CABINET.
11. INSTALL 4"C, 12#1/0.
12. INSTALL CONDUITS IN SAME TRENCH.
13. INSTALL 3"C WITH STATE FURNISHED 6P18 AND 24P18 CMS CONTROL CABLES.
14. INSTALL 4"C, 12#1/0 AND 2"C, 2#2 AND 2#6 (FOR CCTV CAMERA).
15. INSTALL 3"C, 2#2.
16. INSTALL 3"C, 6#1/0.
17. INSTALL STATE-FURNISHED MODEL 500 CMS ON TUBLAR MAST ARM. SHEETS C2 AND C3 FOR POST AND CMS MOUNTING DETAILS.
18. INSTALL STATE-FURNISHED MODEL 170 CONTROLLER ASSEMBLY INSIDE STATE-FURNISHED TYPE 334 CABINET ON NEW FOUNDATION. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
19. SEE E-39 (CMS WIRING DETAILS) NOTE 2 FOR SPLICE INFOMATION.
20. INSTALL 3"C WITH 6P22 CMS COMMUNICATION CABLE AND STATE-FURNISHED 6P18 AND 24P18 CMS CONTROL CABLES.
23. SEE SHEET L-7 FOR LAYOUT DETAILS.

21 INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

22 INCLUDED IN BID ITEM "CHANGEABLE MESSAGE SIGN SYSTEM (NO. 36)".

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

CCTV CAMERA AND CHANGEABLE MESSAGE SYSTEM (LOCATION SD234)

SCALE AS NOTED

E-29

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	71	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

11-28-94
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

DATE	BY	REVISED
3/94	CF	9/94
DP	CF	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u29.dgn DATE: Mon Jun 26 2000 TIME: 09:52

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u30.dgn DATE: Mon Jun 26 2000 TIME: 09:53

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	72	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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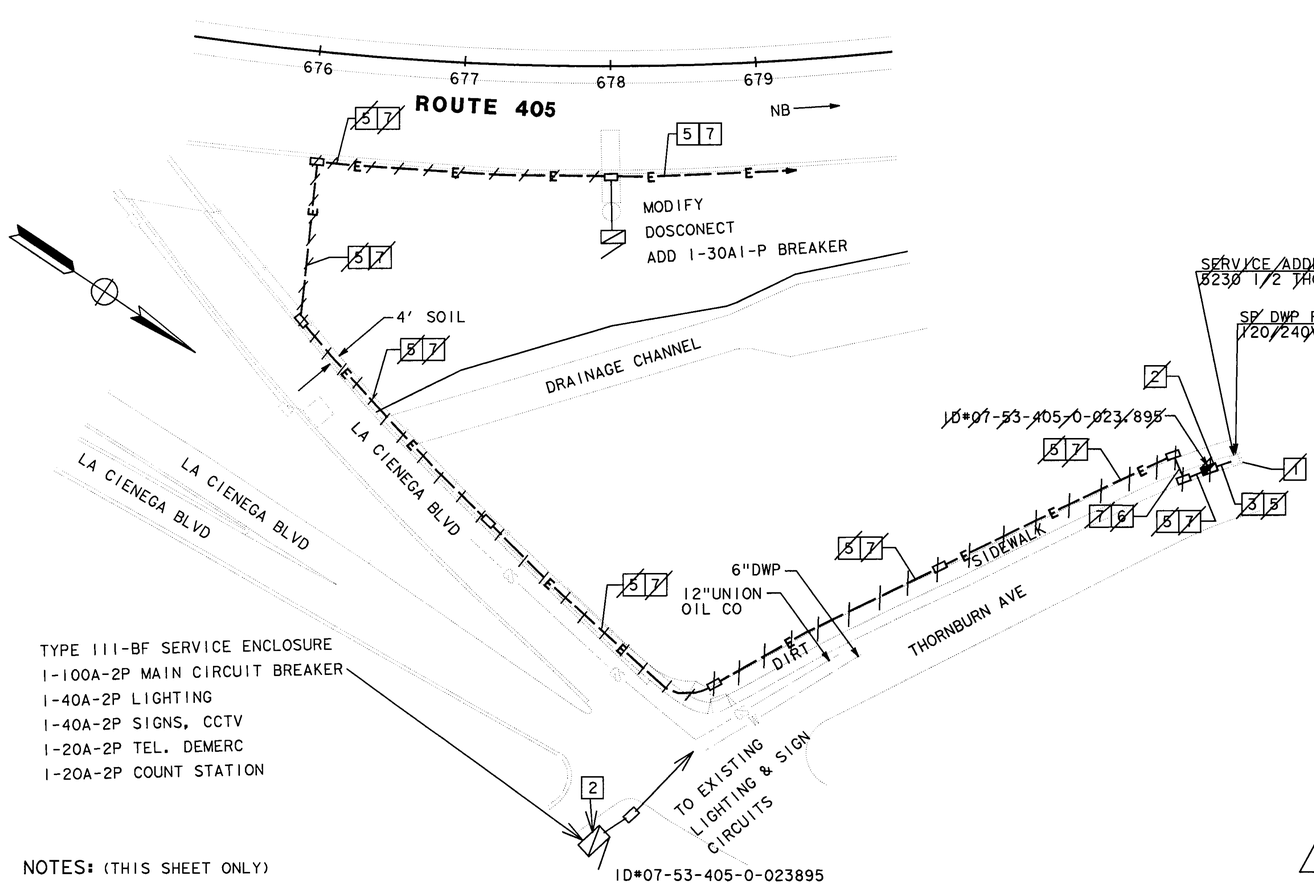

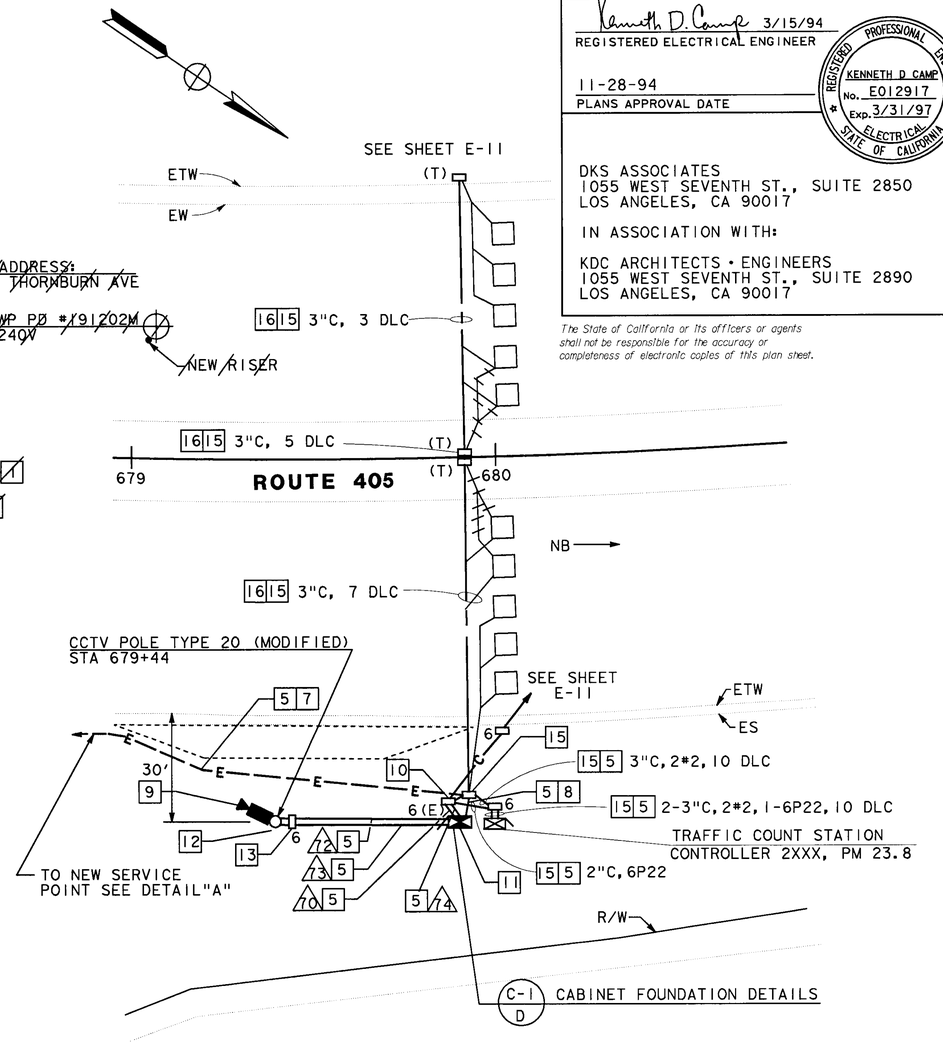

DETAIL "A"
SCALE: 1" = 50'

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (WIRES BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ~~WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER,~~ (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA, AND 20A, 120V, 1P CIRCUIT BREAKER FOR TRAFFIC COUNT STATION.
3. INSTALL 3" CONDUIT (WIRES BY OTHERS).
4. INSTALL 2"C, 2#2 AND 2"C (EMPTY).
5. TRENCH CONDUIT IN SOIL.
6. TRENCH CONDUIT IN CONCRETE.
7. INSTALL 2"C, 4#2.
8. INSTALL 1½"C, 2#2.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
13. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
14. SEE SHEET L-4 FOR LAYOUT DETAILS.
15. INCLUDED IN BID ITEM "TRAFFIC COUNT STATION".
16. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN /10	/12	/13	/14
6P22 CABLE	CONTROLLER DATA	1			
2SMFO ~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1			
RG-6A/U COAX	BASE BAND VIDEO	1	1		
CONTROL CABLE	CAMERA CONTROL			1	1
	CONDUIT SIZE	4"	2"	2"	4"

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

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CAMERA LOCATION SD238, PM 23.8
SCALE: 1"=20'

CCTV CAMERA AND TRAFFIC COUNT STATION (LOCATION SD238)

SCALE AS NOTED

E-30

CALCULATED/ DESIGNED BY	DP	DATE	REVISED BY	CF	AD
CHECKED BY	CF	3/94	DATE REVISED	9/94	9/94

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 00-00-00 — TIME PLOTTED => $$$$$$$SYTIME$$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u30.dgn DATE: Mon Jun 26 2000 TIME: 09:53

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u31.dgn DATE: Mon Jun 26 2000 TIME: 09:54

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE PP#1018626H.
2. ADD (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA AND 30A, 120V, 1P CIRCUIT BREAKER FOR DATA NODE IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. ADD 2#4 IN EXISTING CONDUIT.
4. TRENCH CONDUIT IN SOIL.
5. INSTALL 2"C, 4#4.
6. INSTALL 1½"C, 2#4.
7. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
8. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
12. INSTALL CONDUITS IN THE SAME TRENCH.
13. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE TWO D4 CHANNEL BANKS FOR DATA NODE. SEE SHEET E-46, DETAIL A. INCLUDED IN BID ITEM "EQUIPMENT AT DATA NODE LOCATION SD251".
14. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	73	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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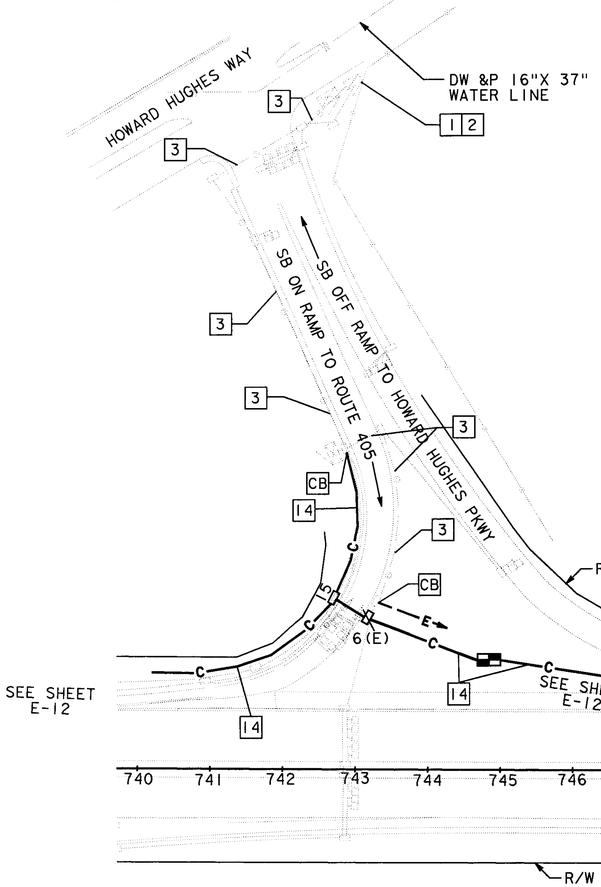
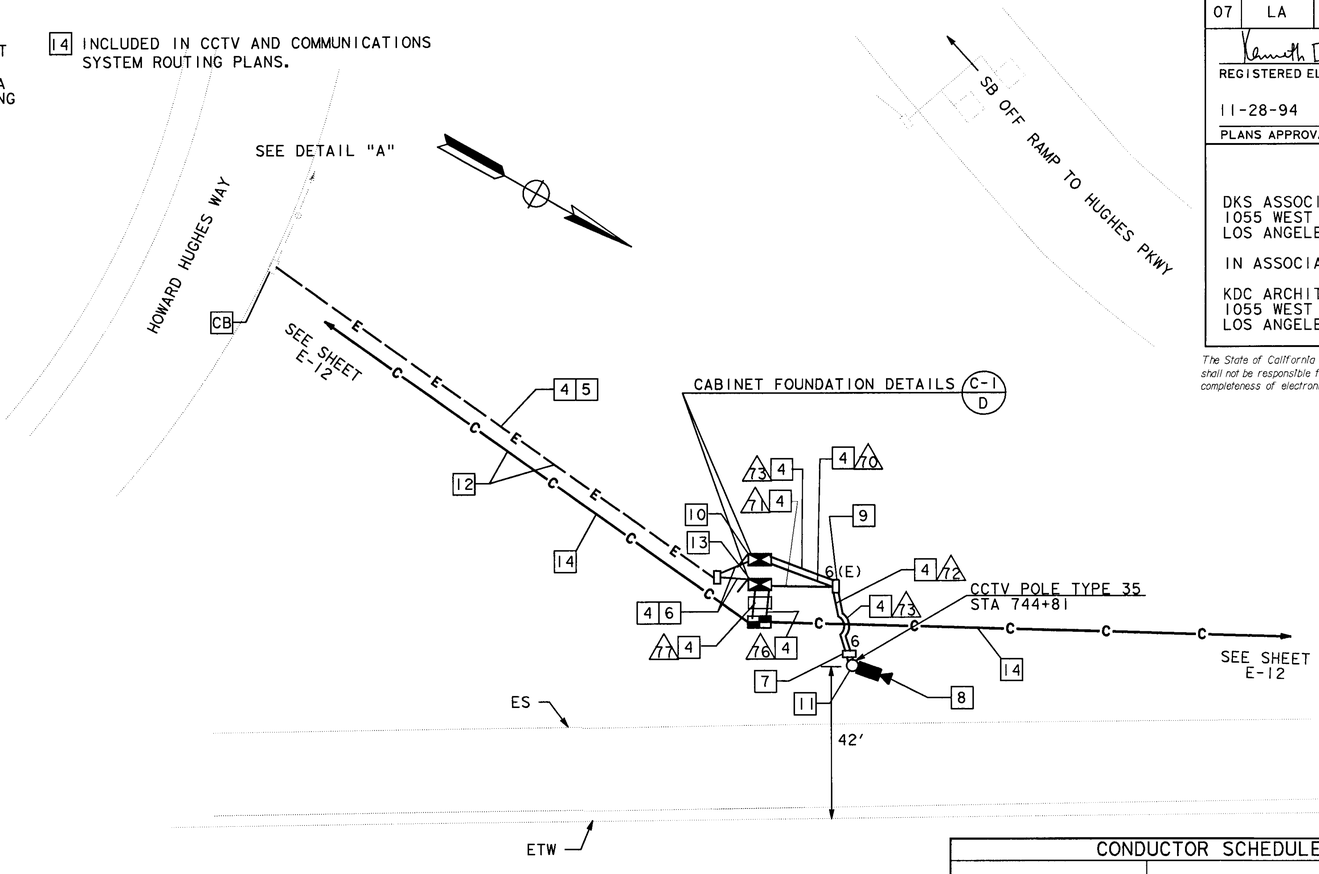


DETAIL "A"
SCALE: 1" = 100'



CONDUCTOR SCHEDULE								
	CONDUCTOR TYPE	FUNCTION	RUN /10	/11	/12	/13	/16	/17
	75P22	COMMUNICATION DATA					1	1
12	~~8~~SMFO	DATA TRUNK TIE-IN						1
	6P22 CABLE	CONTROLLER DATA	1	1				
2SMFO	~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			1	
	RG-6A/U COAX	BASE BAND VIDEO	1		1			
	CONTROL CABLE	CAMERA CONTROL				1		
		CONDUIT SIZE	4"	2"	2"	2"	4"	4"

NB →

CAMERA LOCATION SD251, PM 25.1
SCALE: 1" = 20'

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV CAMERA AND EQUIPMENT AT DATA NODE (LOCATION SD251)

SCALE AS NOTED

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

E-31

DATE	REVISED BY
3/94	DP
3/94	CF
9/94	CF
9/94	JKB

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$SYTIME$$$$$$

$$$$$$$$$$DGNSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USER$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u31.dgn DATE: Mon Jun 26 2000 TIME: 09:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	74	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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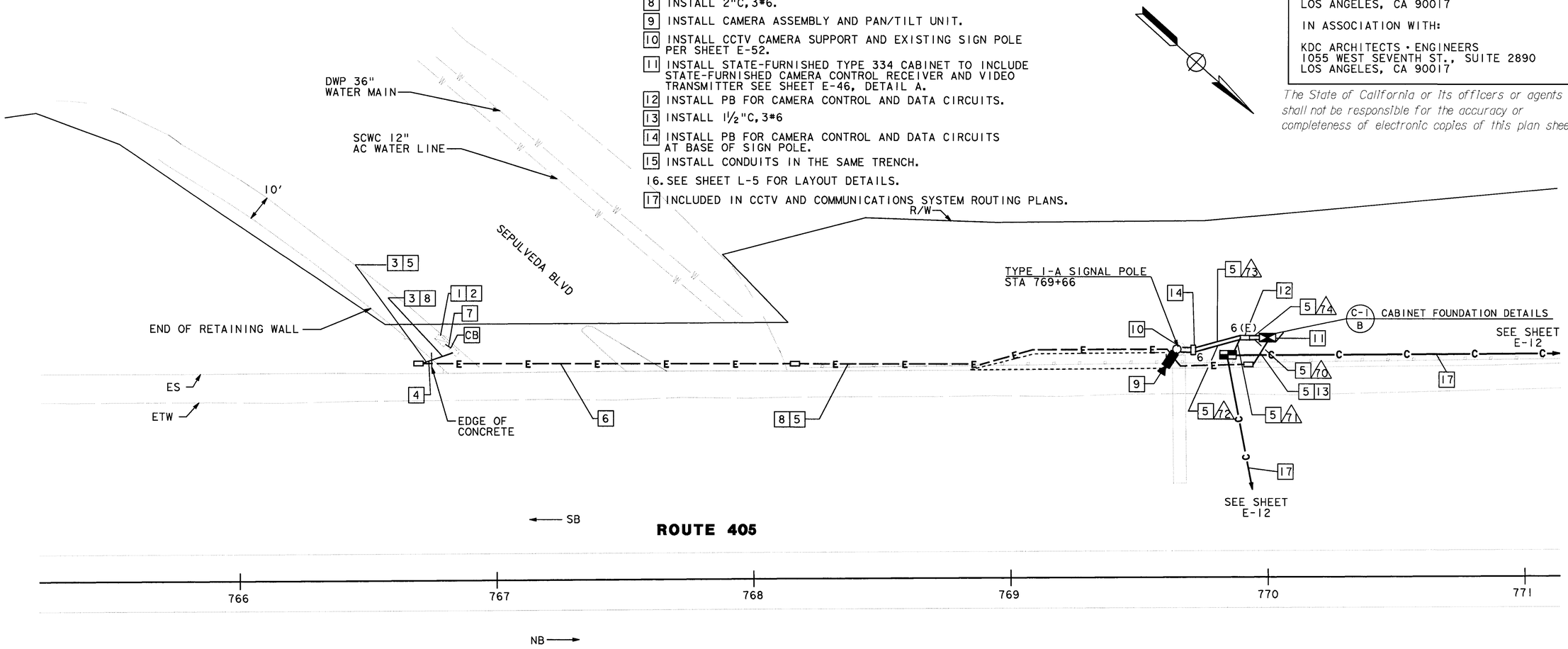
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 70	71	72	73	74
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO ~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, METERED, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE PP#14453520E ID# LA-405-24.460.
2. ADD (METERED) 30A, 120V, IP CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN CONCRETE.
4. TRENCH CONDUIT BY HAND BENEATH RETAINING WALL.
5. TRENCH CONDUIT IN SOIL.
6. INSTALL 2"FIBERGLASS CONDUIT WITH 3#6 ON THE PARAPET OF BRIDGE. SEE DETAIL 2, SHEET C-4.
7. ADD 3#6 IN EXISTING CONDUIT.
8. INSTALL 2"C, 3#6.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. INSTALL CCTV CAMERA SUPPORT AND EXISTING SIGN POLE PER SHEET E-52.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER SEE SHEET E-46, DETAIL A.
12. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
13. INSTALL 1½"C, 3#6
14. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF SIGN POLE.
15. INSTALL CONDUITS IN THE SAME TRENCH.
16. SEE SHEET L-5 FOR LAYOUT DETAILS.
17. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.



CAMERA LOCATION SD255, PM 25.5

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV CAMERA (LOCATION SD255)

SCALE: 1" = 20'

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

E-32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT: PAT SULLIVAN
CALCULATED/DESIGNED BY: DP DATE 3/94 REVISED BY
CHECKED BY: CF 3/94 DATE REVISED

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
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DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$
CU 07374
EA 120811

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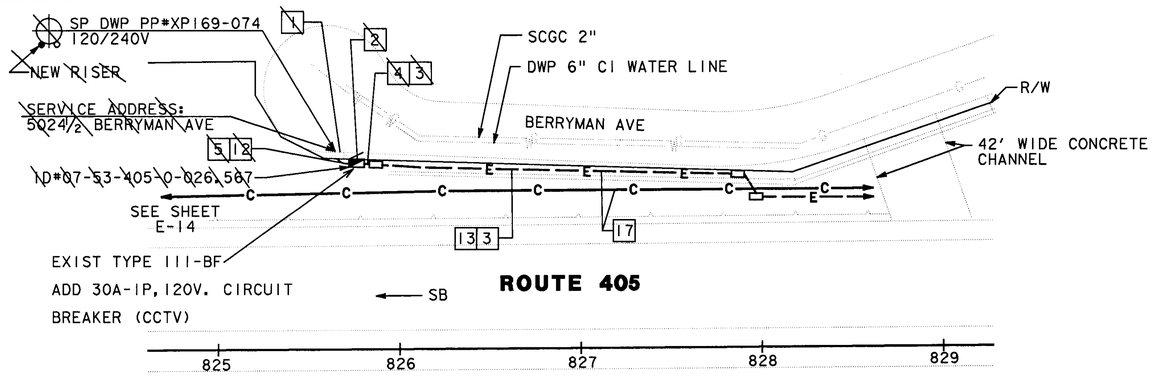

ROUTE 405

DETAIL "A"

SCALE: 1" = 40'

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (WIRE BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND (METERED) 30A, 120V, IP CIRCUT BREAKER FOR CCTV CAMERA.
3. TRENCH CONDUIT IN SOIL.
4. INSTALL 2"C, 2#2 AND 2"C (EMPTY).
5. TRENCH CONDUIT IN CONCRETE.
6. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
7. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
8. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
9. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
10. INSTALL 2"C, 2#6 ON LEDGE OVER BOX CULVERT (STORM DRAIN CHANNEL) SEE DETAIL 9, SHEET C-5.
11. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
12. INSTALL 3" CONDUIT (WIRE BY OTHERS).
13. INSTALL 2"C, 2#6.
14. TRENCH UNDER EXISTING CHAIN LINK FENCE.
15. INSTALL 1½"C, 2#6.
17. INSTALL CONDUITS IN THE SAME TRENCH.
18. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	75	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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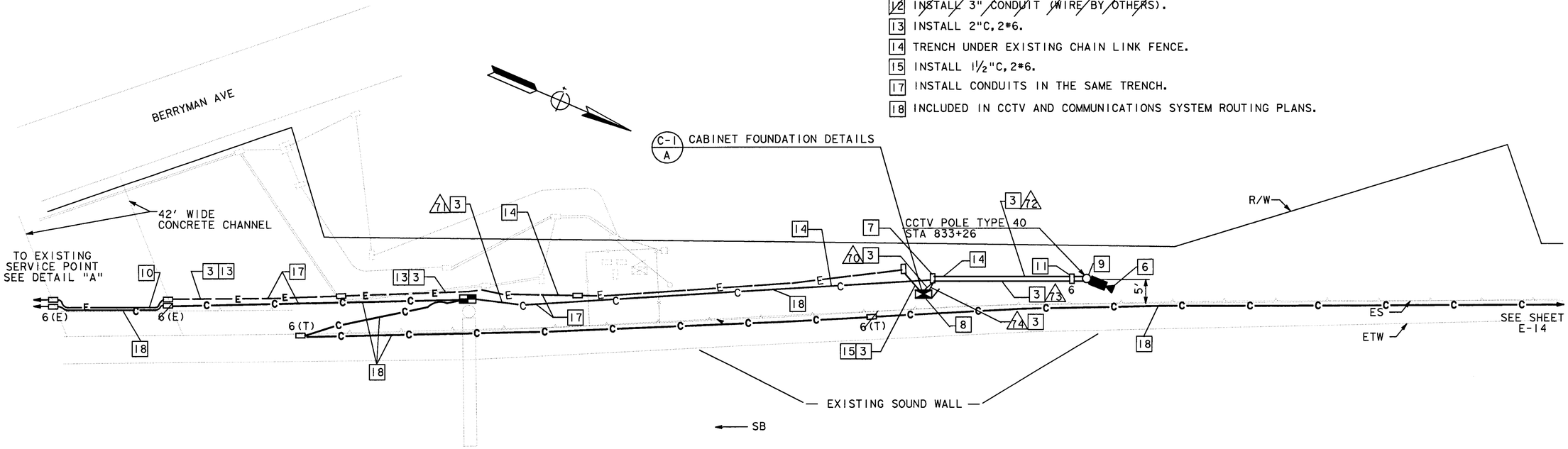

ROUTE 405

CONDUCTOR SCHEDULE							
	CONDUCTOR TYPE	FUNCTION	RUN /10	/11	/12	/13	/14
2SMFO	6P22 CABLE	CONTROLLER DATA	1	1			
	~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
	RG-6A/U COAX	BASE BAND VIDEO	1		1		
	CONTROL CABLE	CAMERA CONTROL				1	1
		CONDUIT SIZE	4"	2"	2"	2"	4"

NB →

CAMERA LOCATION SD267, PM 26.7

SCALE: 1" = 20'

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

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV CAMERA (LOCATION SD267)

SCALE AS NOTED

E-33

DATE	REVISED BY	DATE REVISED
3/94	DP	3/94 CF

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$$SYTIME$$$$$$

$$$$$$$$$$DGNSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USER$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u33.dgn DATE: Mon Jun 26 2000 TIME: 09:56

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	76	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

PROFESSIONAL ENGINEER — REGISTERED — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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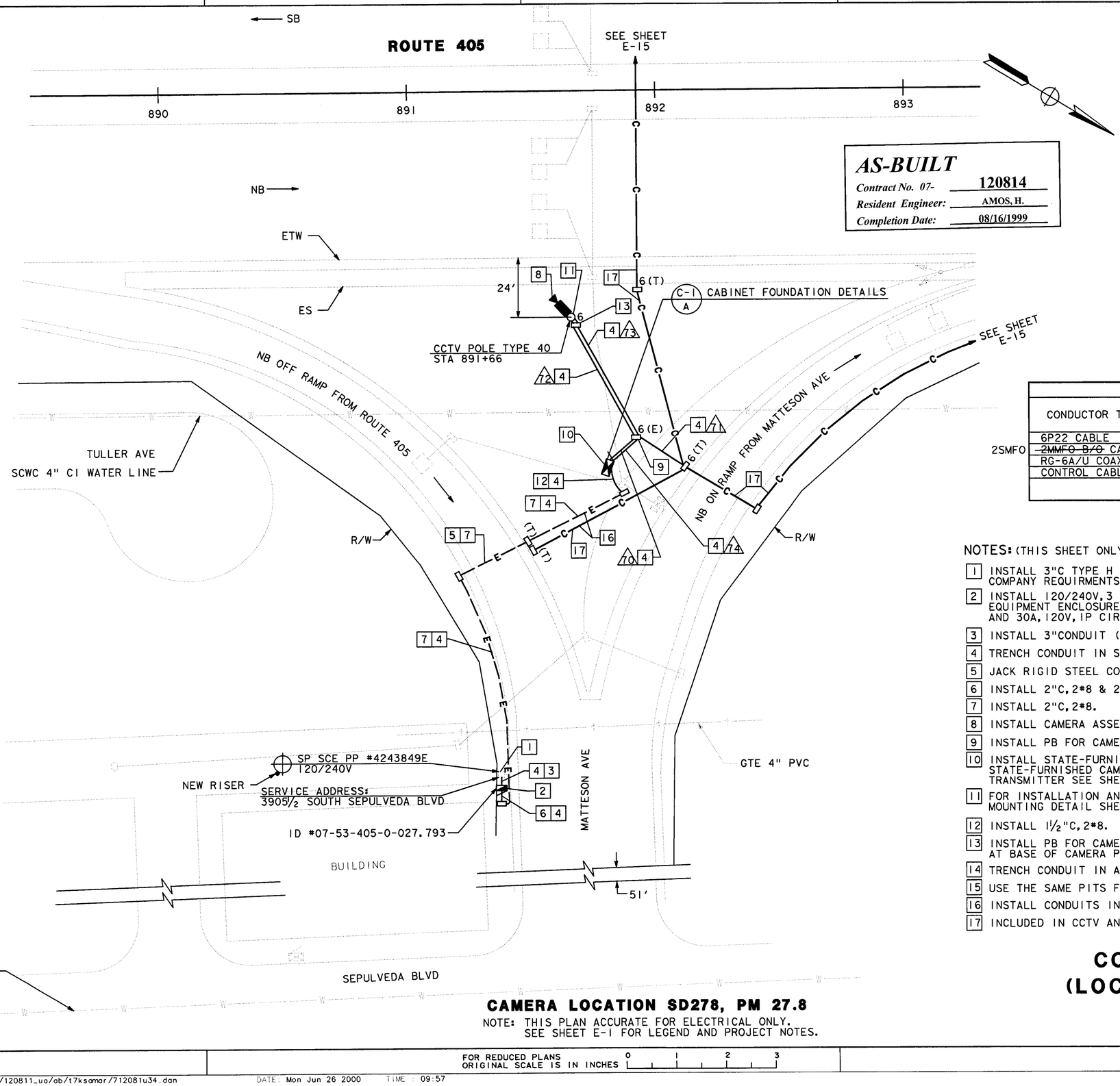
AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999



CAMERA LOCATION SD278, PM 27.8

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

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN				
		T0	T1	T2	T3	T4
6P22 CABLE	CONTROLLER DATA	1	1			
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

2SMFO

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIRMENTS (WIRES BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA.
3. INSTALL 3"CONDUIT (WIRES BY OTHERS).
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. INSTALL 2"C, 2#8 & 2"C (EMPTY).
7. INSTALL 2"C, 2#8.
8. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER SEE SHEET E-46, DETAIL A.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
12. INSTALL 1½"C, 2#8.
13. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
14. TRENCH CONDUIT IN ASPHALT.
15. USE THE SAME PITS FOR JACKING CONDUITS.
16. INSTALL CONDUITS IN THE SAME TRENCH.
17. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

CCTV CAMERA (LOCATION SD278)

SCALE: 1" = 20'

E-34

REVISED BY	DATE	DATE REVISED
DP	3/94	CF 3/94

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07374 EA 120811

FORM DC-OE-92-PF (REV. 3/88)

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u35.dgn DATE: Mon Jun 26 2000 TIME : 09:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	77	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

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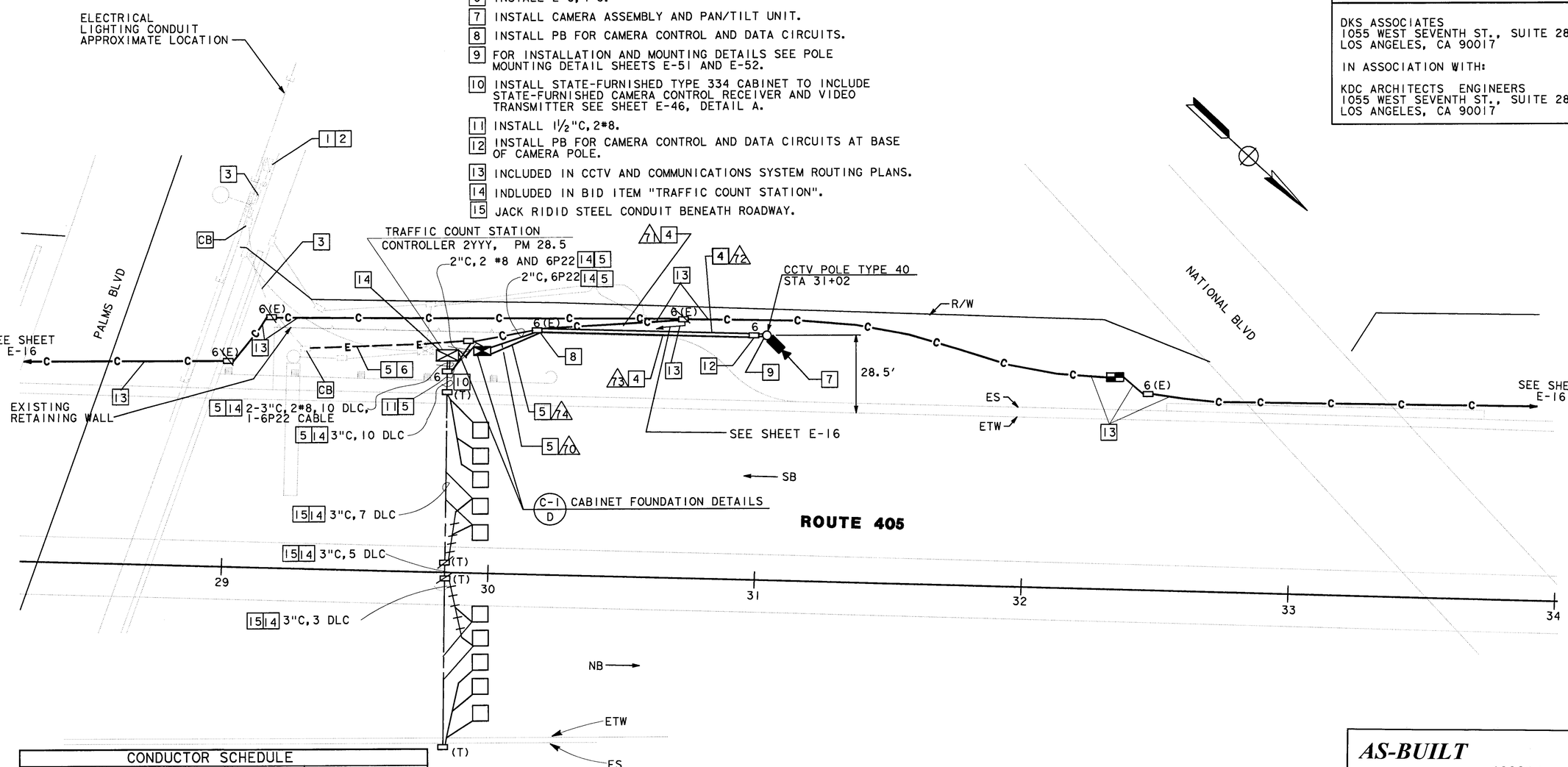
DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, METERED, TYPE 111-BF SERVICE EQUIPMENT ENCLOSURE PP *299280M.
2. ADD (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERAND 20A, 120V, 1P CIRCUIT BREAKER FOR TRAFFIC COUNT STATION IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. ADD 2*8 IN EXISTING CONDUIT.
4. TRENCH CONDUIT IN SOIL.
5. TRENCH CONDUIT IN ASPHALT.
6. INSTALL 2"C, 4*8.
7. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
8. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
9. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
10. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER SEE SHEET E-46, DETAIL A.
11. INSTALL 1½"C, 2*8.
12. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
13. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
14. INDLUDED IN BID ITEM "TRAFFIC COUNT STATION".
15. JACK RIDID STEEL CONDUIT BENEATH ROADWAY.



CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN /10	RUN /11	RUN /12	RUN /13	RUN /14
6P22 CABLE	CONTROLLER DATA	1	1			
~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

2SMFO

CAMERA LOCATION SD285, PM 28.5

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

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CCTV CAMERA AND TRAFFIC COUNT STATION (LOCATION SD285)

SCALE: 1" = 20'

E-35

DATE	REVISED BY	DATE REVISED
3/94	AD	9/94
DP		
CF		

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

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FORM DC-OE-92-PF (REV. 3/88)

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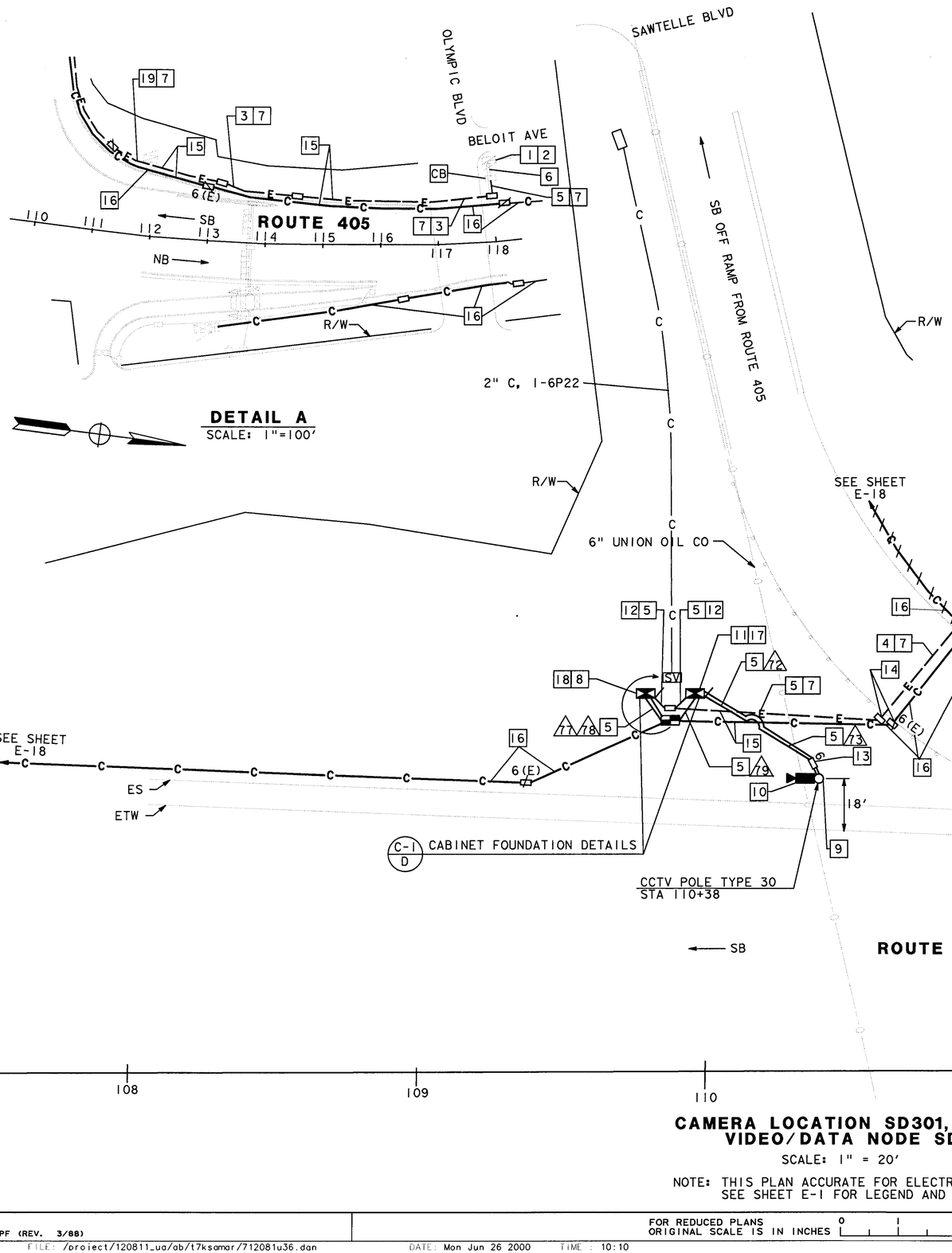
USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u35.dgn DATE: Mon Jun 26 2000 TIME : 09:58

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u36.dgn DATE: Mon Jun 26 2000 TIME: 10:10



DETAIL A
SCALE: 1"=100'

CAMERA LOCATION SD301, PM 30.1
VIDEO/DATA NODE SD301
SCALE: 1" = 20'

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

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE: 2198½ BELIOT AVE, PP#82023M.
2. ADD METERED 30A, 120V, IP CIRCUIT BREAKER FOR VIDEO NODE AND METERED 30A, 120V, IP CIRCUIT BREAKER FOR DATA NODE IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. ATTACH CONDUIT ON STRUCTURE, SEE STRUCTURAL DRAWINGS.
4. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
5. TRENCH CONDUIT IN SOIL.
6. ADD 4#4 IN EXISTING CONDUIT.
7. INSTALL 2"C, 4#4.
8. INSTALL STATE-FURNISHED TYPE 334 CABINET. DATA NODE CABINET TO INCLUDE TWO D4 CHANNEL BANK. SEE SHEET E-46, DETAIL B.
9. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-51 AND E-52.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET. VIDEO NODE CABINET TO INCLUDE 16 CHANNEL VIDEO MULTIPLEXER AND 9 VIDEO RECEIVERS. SEE SHEET E-46, DETAIL B.
12. INSTALL 1½"C, 2#4.
13. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF CAMERA POLE.
14. USE THE SAME PIT FOR JACKING CONDUITS.
15. INSTALL CONDUITS IN THE SAME TRENCH.
16. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
17. INCLUCED IN BID ITEM "EQUIPMENT AT VIDEO NODE LOCATION SD301".
18. INCLUDED IN BID ITEM "EQUIPMENT AT DATA NODE LOCATION SD301".
19. TRENCH CONDUIT IN ASPHALT.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	78	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

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DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN /12	/13	/11	/18	/19
75P22	COMMUNICATION DATA			1	1	
12 8SMFO	DATA TRUNK TIE-IN			1	1	
6P22 CABLE	CONTROLLER DATA				1	1
2SMFO	VIDEO TRUNK TIE-IN					1
RG-6A/U COAX	BASE BAND VIDEO	1				
CONTROL CABLE	CAMERA CONTROL		1			
~~8MMFO~~ 12SMFO	INCOMING VIDEO					2
	CONDUIT SIZE	2"	2"	4"	4"	4"

CCTV CAMERA, EQUIPMENT AT DATA NODE AND EQUIPMENT AT VIDEO NODE (LOCATION SD301)

SCALE AS NOTED

E-36

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DP	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	CHECKED BY	CF	3/94	CF	9/94
				JKB	9/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$SYTIME$$$$$$

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FORM DC-OE-92-PF (REV. 3/88)

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DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120811

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u36.dgn DATE: Mon Jun 26 2000 TIME: 10:10

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u37.dgn DATE: Mon Jun 26 2000 TIME: 10:11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	79	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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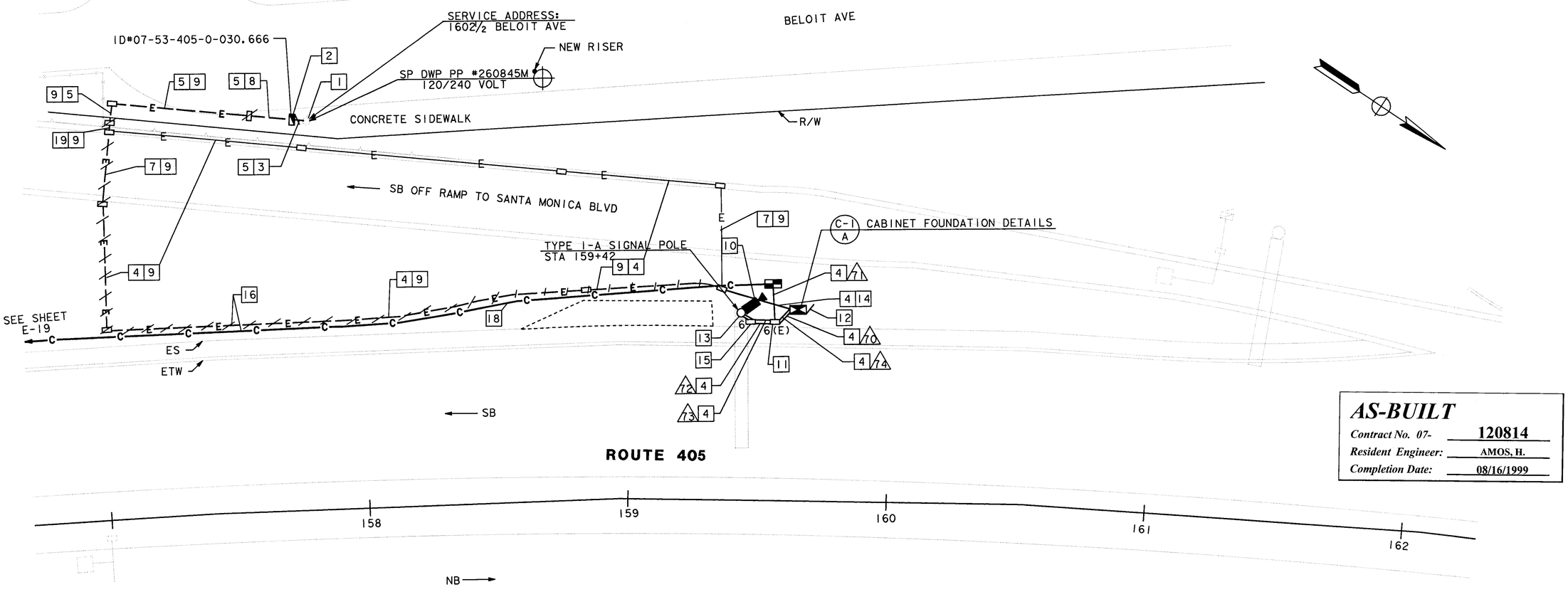
NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (WIRE BY OTHERS)
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND METERED 30A, 120V, IP CIRCUIT BREAKER FOR CCTV CAMERA.
3. INSTALL 3" CONDUIT (WIRE BY OTHERS).
4. TRENCH CONDUIT IN SOIL.
5. TRENCH CONDUIT IN CONCRETE.
6. TRENCH CONDUIT IN ASPHALT.
7. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
8. INSTALL 2"C, 2#6 AND 2"C (EMPTY).
9. INSTALL 2"C, 2#6.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
12. INSTALL STATE-FURNISHED TYPE 334 CABINET TO INCLUDE STATE-FURNISHED CAMERA CONTROL RECEIVER AND VIDEO TRANSMITTER. SEE SHEET E-46, DETAIL A.
13. INSTALL CCTV CAMERA SUPPORT AND EQUIPMENT ON EXISTING SIGN POLE PER SHEET E-52.
14. INSTALL 1½"C, 2#6.
15. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS AT BASE OF SIGN STRUCTURE.
16. INSTALL CONDUITS IN THE SAME TRENCH.
17. SEE SHEET L-6 FOR LAYOUT DETAILS.
18. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
19. CORE DRILL 3" HOLE THROUGH RETAINING WALL. SEE SHEET C-8.



CONDUCTOR SCHEDULE							
	CONDUCTOR TYPE	FUNCTION	RUN /10	/11	/12	/13	/14
	6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO	~~2MMFO B/O~~ CABLE	SHORT HAUL VIDEO	1	1			
	RG-6A/U COAX	BASE BAND VIDEO	1		1		
	CONTROL CABLE	CAMERA CONTROL				1	1
		CONDUIT SIZE	4"	2"	2"	2"	4"

CAMERA LOCATION SD307, PM 30.7

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

AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

AS-BUILT
Contract No. 07- 120814
Resident Engineer: [signature]
Completion Date: 08/16/1999

CCTV CAMERA (LOCATION SD307)

SCALE: 1" = 20'

E-37

DATE	REVISED BY
3/94	DATE REVISED

CALCULATED/ DESIGNED BY	DP
CHECKED BY	CF 3/94

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$$SYTIME$$$$$$

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USERNAME => $$$$$$USER$$$$$$
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CU 07374 EA 120811

FORM DC-OE-92-PF (REV. 3/88)

USERID: t7ksamar@NODE FILE: /project/120811_ua/ab/t7ksamar/712081u37.dgn DATE: Mon Jun 26 2000 TIME: 10:11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	15.4/31.0	80	151

Kenneth D. Camp 3/15/94
REGISTERED ELECTRICAL ENGINEER

11-28-94
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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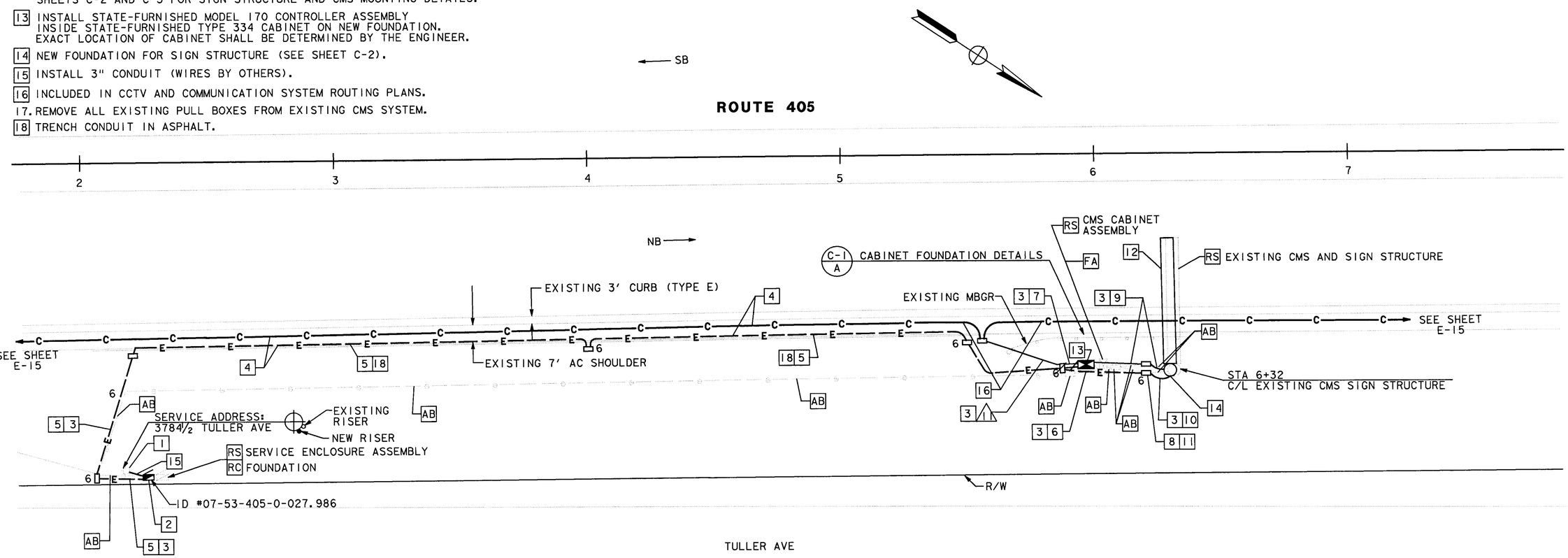
AS-BUILT
Contract No. 07- 120814
Resident Engineer: AMOS, H.
Completion Date: 08/16/1999

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (WIRES BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 200A, 240V, 4P MAIN CIRCUIT BREAKER. (METERED) (4) 80A, 120V, 1P; (4) 30A, 120V, 1P.
3. TRENCH CONDUIT IN SOIL.
4. INSTALL CONDUITS IN THE SAME TRENCH.
5. INSTALL 3"C, 6#2/0 AND 2#4.
6. INSTALL 3"C, 6#2/0.
7. INSTALL 3"C, 2#4.
8. INSTALL GROUND ROD IN PULL BOX.
9. INSTALL 3"C WITH STATE-FURNISHED 6P18 AND 24P18 CMS CONTROL CABLES.
10. INSTALL 3"C, 6#1/0 AND 1#4 GROUND.
11. SEE SHEET E-39 (CMS WIRING DETAILS) NOTE 2 FOR INSTRUCTIONS.
12. INSTALL STATE-FURNISHED MODEL 500 CMS ON NEW SIGN STRUCTURE. SEE SHEETS C-2 AND C-3 FOR SIGN STRUCTURE AND CMS MOUNTING DETAILS.
13. INSTALL STATE-FURNISHED MODEL 170 CONTROLLER ASSEMBLY INSIDE STATE-FURNISHED TYPE 334 CABINET ON NEW FOUNDATION. EXACT LOCATION OF CABINET SHALL BE DETERMINED BY THE ENGINEER.
14. NEW FOUNDATION FOR SIGN STRUCTURE (SEE SHEET C-2).
15. INSTALL 3" CONDUIT (WIRES BY OTHERS).
16. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.
17. REMOVE ALL EXISTING PULL BOXES FROM EXISTING CMS SYSTEM.
18. TRENCH CONDUIT IN ASPHALT.



CONDUCTOR SCHEDULE		
CONDUCTOR TYPE	FUNCTION	RUN 1
6P22 CABLE	CONTROLLER DATA	1
	CONDUIT SIZE	2"

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

CHANGEABLE MESSAGE SIGN SYSTEM

(NO. 58)

SCALE: 1" = 20'

E-38

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT: PAT SULLIVAN
CALCULATED/DESIGNED BY: RS
CHECKED BY: CF
DATE: 3/94
REVISED BY
DATE REVISED

LAST REVISION 03-15-94
TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120811

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	58	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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PROJECT NOTES: (FOR SHEETS E-2 TO E-20)

1. TRENCH AND INSTALL CONDUIT IN ASPHALT.
2. TRENCH AND INSTALL CONDUIT IN CONCRETE.
3. TRENCH AND INSTALL CONDUIT IN SOIL.
4. ATTACH CONDUIT TO STRUCTURE. SEE SHEET C-8 THROUGH C-10 FOR BRIDGE ATTACHMENT TYPE AND DETAILS.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. COIL 30 FEET OF 6P22 TWISTED PAIR CABLE IN PULL BOX FOR IRRIGATION CONTROLLER CONNECTION.
7. COIL 30 FEET OF 6P22 TWISTED PAIR CABLE IN PULL BOX FOR TRAFFIC SIGNAL CONTROLLER CONNECTION.
8. CONNECT 6P22 TWISTED PAIR CABLE TO CONTROLLER. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
9. COIL 30 FEET OF 6P22 TWISTED PAIR CABLE IN PULL BOX FOR FUTURE TMS CONTROLLER CONNECTION.
10. TRENCH CONDUIT IN SOIL BENEATH OVERPASS WITHIN CALTRANS RIGHT-OF-WAY.

ABBREVIATIONS: (NOT LISTED IN CALTRANS STANDARD PLANS)

B/O	- BREAK OUT
CCTV	- CLOSED CIRCUIT TELEVISION
COMM	- COMMUNICATION
DACCS	- DIGITAL CROSS CONNECTION SWITCH
DEMARC	- DEMARCATION
DEMUX	- DEMULTIPLEX
DWP	- LA DEPARTMENT OF WATER AND POWER
E/O	- ELECTRIC TO OPTIC
GTE	- GENERAL TELEPHONE AND ELECTRIC
HAR	- HIGHWAY ADVISORY RADIO
JKFD	- JACKFIELD
MUX	- MULTIPLEX
OW	- ORDER WIRE (MULTIPLE VOICE CIRCUIT)
O/E	- OPTICAL TO ELECTRIC
PAC BELL	- PACIFIC BELL TELEPHONE COMPANY
PT&T	- PACIFIC TELEPHONE AND TELEGRAPH
RX	- RECEIVER
SCE	- SOUTHERN CALIFORNIA EDISON
SCGS	- SOUTHERN CALIFORNIA GAS COMPANY
SCWC	- SOUTHERN CALIFORNIA WATER COMPANY
SD	- SAN DIEGO
SM	- SINGLEMODE
SMFO	- SINGLEMODE FIBER OPTIC
TMS	- TRAFFIC MONITORING STATION
TX	- TRANSMITTER
VMX	- VIDEO MULTIPLEXER

GENERAL NOTES:

1. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE IN WRITING TO THE ENGINEER.
2. SERVICE EQUIPMENT ENCLOSURE SHALL BE LOCATED 10' MINIMUM FROM THE POWER POLE OR VAULT.
3. ELECTRICAL SERVICE INSTALLATION SHALL MEET THE UTILITY COMPANY REQUIREMENTS SERVING IN THE LOCAL JURISDICTION.
4. CONDUCTORS FROM POWER POLE (OR VAULT) TO SERVICE ENCLOSURE WILL BE INSTALLED BY UTILITY COMPANY.
5. TRENCH FOR CONDUIT INSTALLATION BETWEEN POWER POLE (OR VAULT) AND SERVICE ENCLOSURE SHALL BE LEFT OPEN FOR INSPECTION AND APPROVAL BY CONCERNED UTILITY COMPANY INSPECTOR BEFORE BACKFILL.
6. STENCIL CAMERA IDENTIFICATION NUMBER ON POLE IN 3" CHARACTERS 10 FEET ABOVE BASE. SEE SHEETS K-1 AND K-2.

LEGEND (SHEET E-2 TO E-44)

- CCTV CAMERA AND POLE
- EXISTING CCTV CAMERA
- CCTV CAMERA POLE LOCATION
- COMMUNICATION PULL BOX
- SPLICE VAULT
- EXISTING SPLICE VAULT
- EXISTING CONTROLLER TO BE TIED TO COMMUNICATION SYSTEM
- TYPE 334 -TV CABINET
- PP#XXX — POWER POLE NUMBER
- XXP22 — XX TWISTED PAIR TELEPHONE CABLE SEE SHEETS E-79 THROUGH E-86 FOR TWISTED PAIR ASSIGNMENT TABLES
- SDXXX — CCTV IDENTIFICATION NUMBER: (SD = SAN DIEGO FREEWAY) (HA = HARBOR FREEWAY) (XXX = POST MILE DESIGNATOR TO ONE DECIMAL PLACE)
- EXISTING TELEPHONE BRIDGE
- TELEPHONE BRIDGE

TABLE 1 - CCTV WIRING

CONDUCTOR TYPE	FUNCTION	QUANTITY
RG-6 A/U	CAMERA VIDEO INTERFACE CABLE	1
9P18 CABLE	PAN/TILT CONTROL CABLE	1
12P18 CABLE	LENS CONTROL CABLE	1

AS-BUILT
Contract No. 07- 120824
Resident Engineer:
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM (LEGEND AND NOTES)

E-1

DATE	REVISED BY	DATE REVISED
7/94	DP	CF 7/94

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 09-14-95
DATE PLOTTED => 20-Dec-1996
TIME PLOTTED => 13:23

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => frienard
DGN FILE => [ESC-OE]712082u01.psf
CU 07396
EA 120821

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	59	164

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Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

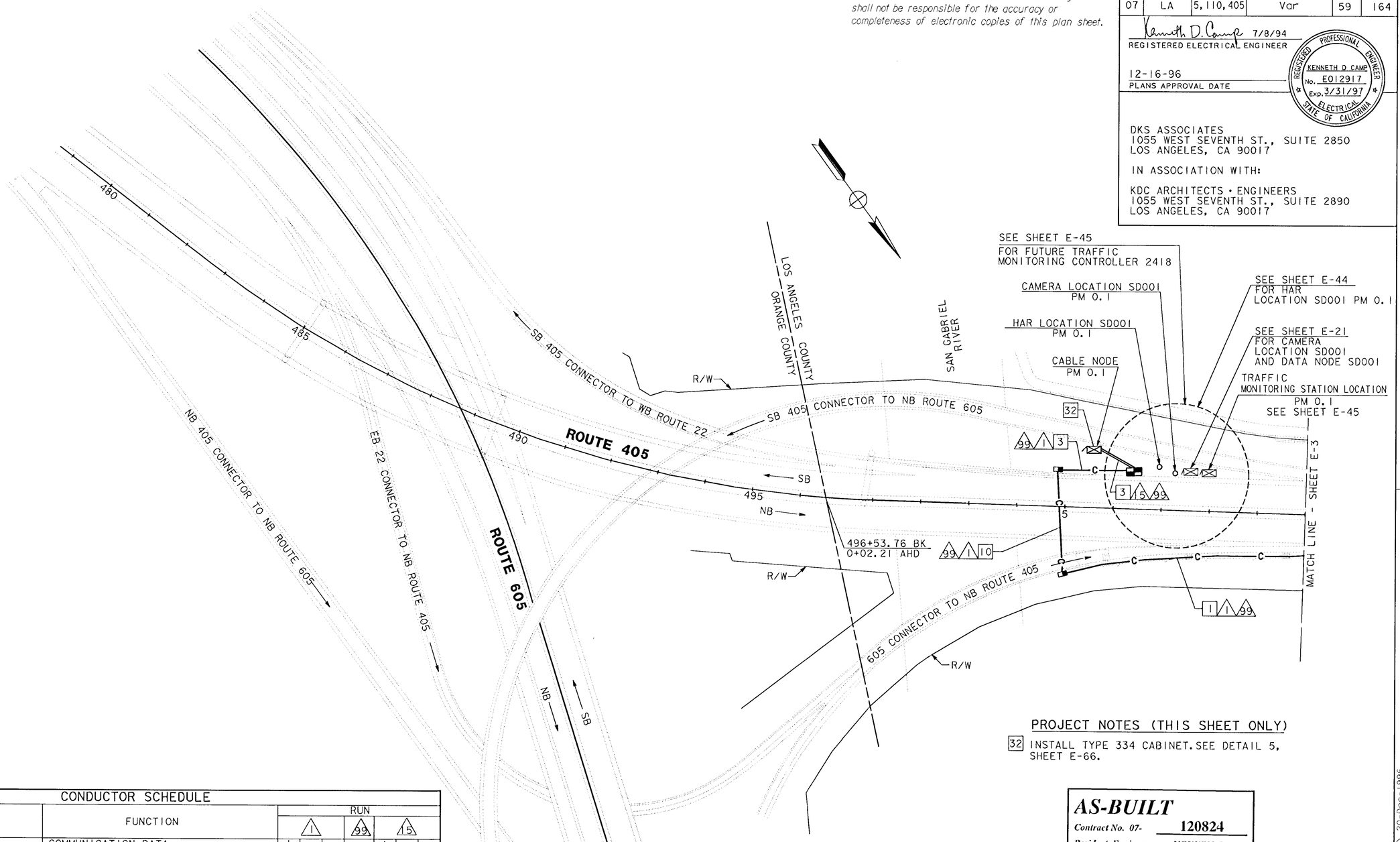
12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017



PROJECT NOTES (THIS SHEET ONLY)

32 INSTALL TYPE 334 CABINET. SEE DETAIL 5, SHEET E-66.

CONDUCTOR SCHEDULE										
CONDUCTOR TYPE	FUNCTION	RUN								
		1			99			15		
75P22 CABLE	COMMUNICATION DATA	1					1			
6P22 CABLE	CONTROLLER DATA									
72SMFO	DATA/VIDEO NODE TO HUB			1						1
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1							
2SMFO B/O CABLE	SHORT HAUL VIDEO									
	INNERDUCT		1 1/4"	1 1/4"					1 1/4"	1 1/4"
	CONDUIT SIZE	4"			4"			4"		

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-2

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

CALCULATED/ DESIGNED BY		DATE 7/94	REVISED BY
CHECKED BY	RL	7/94	DATE REVISED

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 20-Dec-1996
TIME PLOTTED => 10:42

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trienard
DGN FILE => (ESC-OEJ712082u02.psf

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ua\ab\712082u03.dgn DATE: Fri Apr 13 2001 TIME: 14:33

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	3, 110, 405	Var	60	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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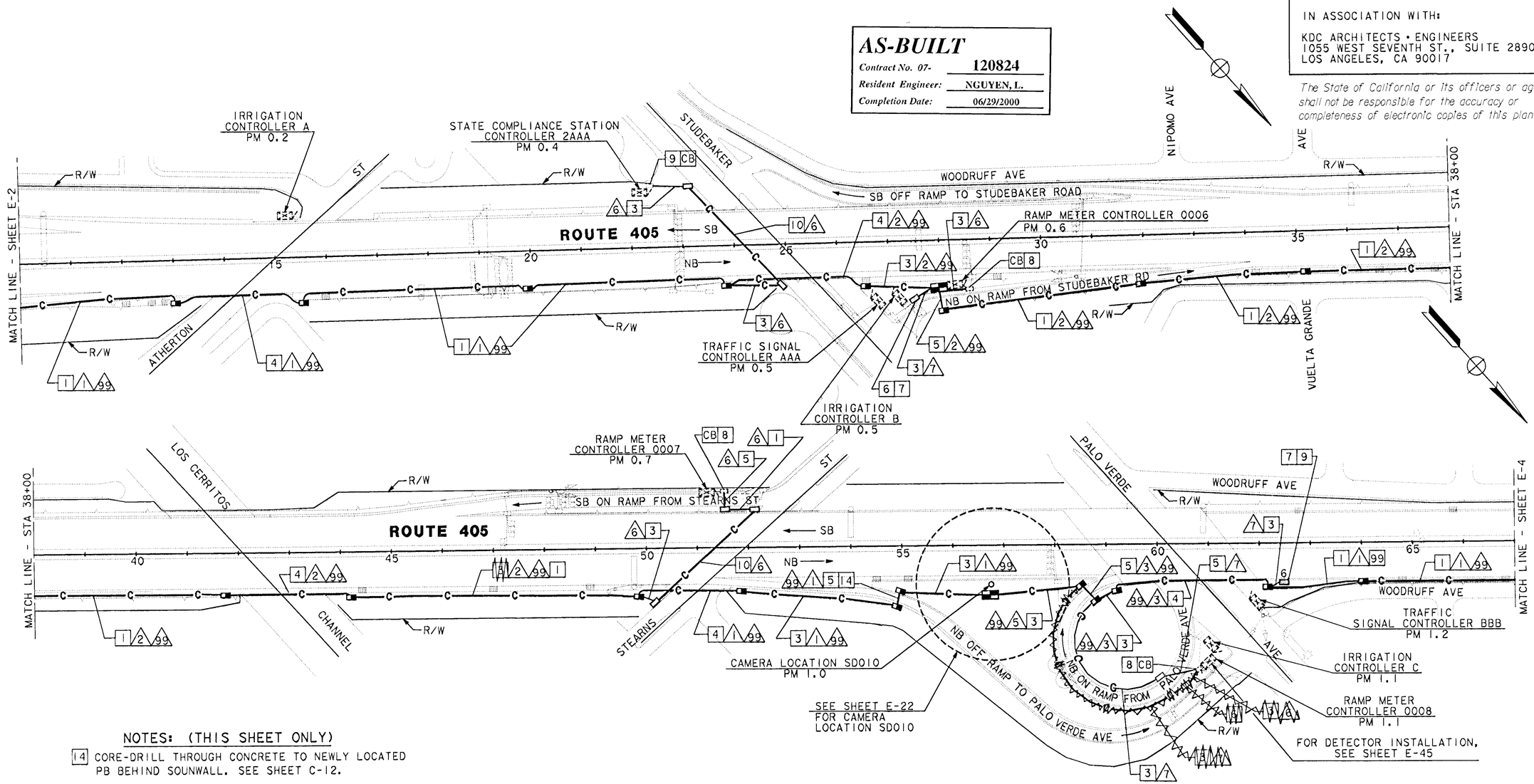
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 3	RUN 5	RUN 6	RUN 7	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1	1	1			
6P22 CABLE	CONTROLLER DATA		1	2	4	1	2	
72SMFO	DATA/VIDEO NODE TO HUB	1	1	1	1			
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1	1			
	INNERDUCT	1/4" 1/4"	1/4" 1/4"	1/4" 1/4"	1/4" 1/4"			
	CONDUIT SIZE	4"	4"	4"	4"	2"	2"	4"

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000



NOTES: (THIS SHEET ONLY)

14 CORE-DRILL THROUGH CONCRETE TO NEWLY LOCATED PB BEHIND SOUNWALL. SEE SHEET C-12.

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-3

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

DATE	BY	REVISED	DATE REVISED
7/94	DP		
7/94	RL		

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

712082u03\13143223 13-Apr-2001 HHuynh

LAST REVISION DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

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USERNAME => HHuynh
DGN FILE => 712082u03\13143223

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ua\ab\712082u03.dgn DATE: Fri Apr 13 2001 TIME: 14:33

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u04.dgn DATE: Fri Apr 13 2001 TIME: 14:14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	61	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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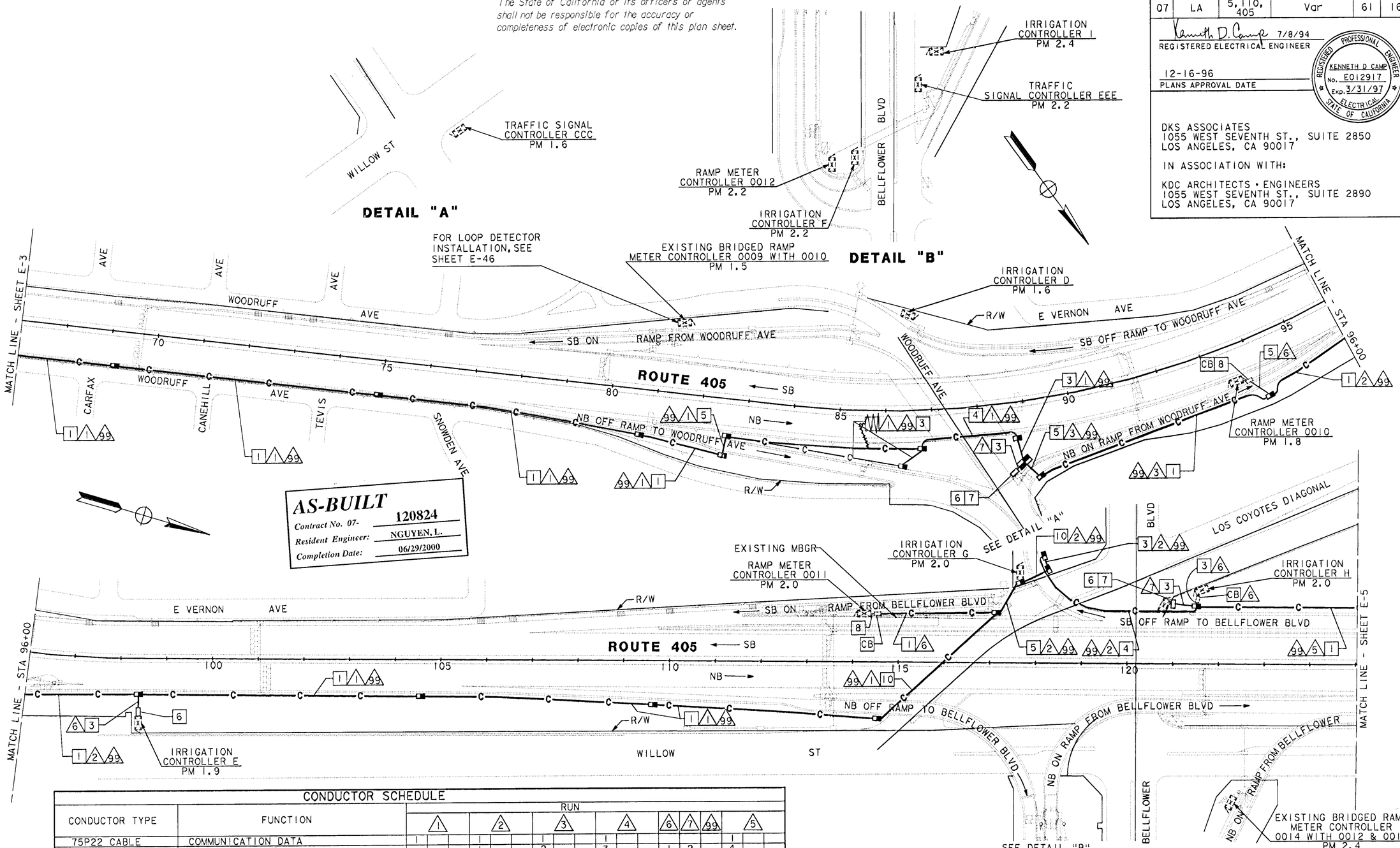

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1			RUN 2			RUN 3			RUN 4			RUN 6	RUN 7	RUN 99	RUN 5		
75P22 CABLE	COMMUNICATION DATA	1			1			1			1						1		
6P22 CABLE	CONTROLLER DATA				1			2			3			1	2		4		
72SMFO	DATA/VIDEO NODE TO HUB			1			1			1			1						1
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1			1			1			1						1	
	INNERDUCT		1¼"	1¼"		1¼"	1¼"		1¼"	1¼"		1¼"	1¼"					1¼"	1¼"
	CONDUIT SIZE		4"			4"			4"			4"		2"	2"	4"		4"	

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

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT: PAT SULLIVAN

CALCULATED/DESIGNED BY: DP DATE 7/94 REVISED BY
CHECKED BY: RL 7/94 DATE REVISED

Caltrans

712082u0413141356 13-Apr-2001 HHuynh

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u0413141356

CU 07396 EA 120821

DATE PLOTTED => 13-Apr-2001
LAST REVISION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	62	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KENNETH D CAMP
No. E012917
Exp. 3/31/97
ELECTRICAL
STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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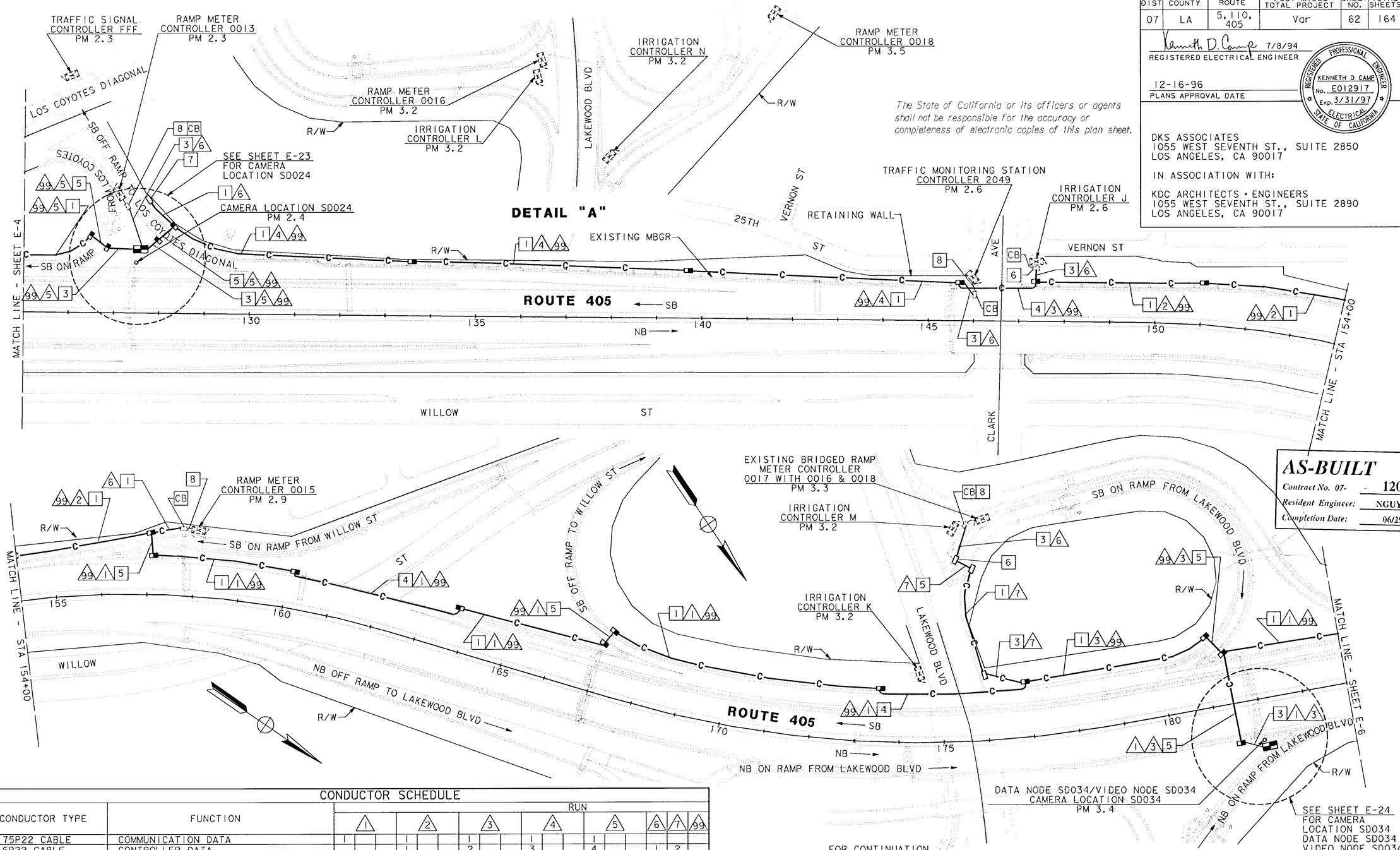

FOR CONTINUATION SEE DETAIL "A"

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1			RUN 2			RUN 3			RUN 4			RUN 5			RUN 6	RUN 7	RUN 99
75P22 CABLE	COMMUNICATION DATA	1			1			1			1			1					
6P22 CABLE	CONTROLLER DATA				1			2			3			4			1	2	
72SMFO	DATA/VIDEO NODE TO HUB			1			1			1			1			1			
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1			1			1			1			1				
	INNERDUCT		1¼"	1¼"		1¼"	1¼"		1¼"	1¼"		1¼"	1¼"		1¼"	1¼"			
	CONDUIT SIZE	4"			4"			4"			4"			4"			2"	2"	4"

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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

E-5

CALCULATED/ DESIGNED BY	DP	DATE 7/94	REVISED BY
CHECKED BY	RL	7/94	DATE REVISED

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

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CU 07396 | EA 120821

FORM DC-OE-92-PF (REV. 3/88)

[ESC-OE]712082u05.psf 21-Dec-1996 trmikesl

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	63	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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PROJECT NOTES: (THIS SHEET ONLY)

11 COIL 30 FEET OF 6P22 CABLE IN PB FOR PUMP HOUSE CONNECTION.

12 CONNECT 1-6P22 TO DISTRICT CONTROLLER IN CABINET. COIL OTHER 6P22 IN PB FOR STATE EQUIPMENT.

14 CORE-DRILL THROUGH CONCRETE TO NEWLY LOCATED PB BEHIND SOUNDWALL. SEE SHEET C-12.

17 INSTALL CONDUITS IN THE SAME TRENCH.

18 INSTALL TYPE E COUNT DETECTORS.

19 INSTALL 3"C, 2-DLC.

21 INSTALL STATE-FURNISHED TYPE 334 CABINET.

23 ADD (METERED) 15A, 120V, 1P CIRCUIT BREAKER FOR TYPE 334 CABINET IN EXISTING SERVICE EQUIPMENT ENCLOSURE.

24 INSTALL 2"C, 2#8 SERVICE CONDUCTORS FOR TYPE 334 CABINET.

25 ADD 2#8 IN EXISTING CONDUIT FOR TYPE 334 CABINET.

26 INSTALL 3"C, 2#8 SERVICE CONDUCTORS AND 2#14 COUNT DETECTOR CABLE.

27 INSTALL 2"C, 1#14 COUNT DETECTOR CABLE.

28 INSTALL DC ISOLATION MODULE FOR EXIT RAMP LOOP DETECTOR IN EXISTING RAMP METER CABINET.

29 INSTALL 1#14 COUNT DETECTOR CABLE INTO EXISTING CONDUIT.

31 INSTALL 2"C, 2#14 COUNT DETECTOR CABLES.

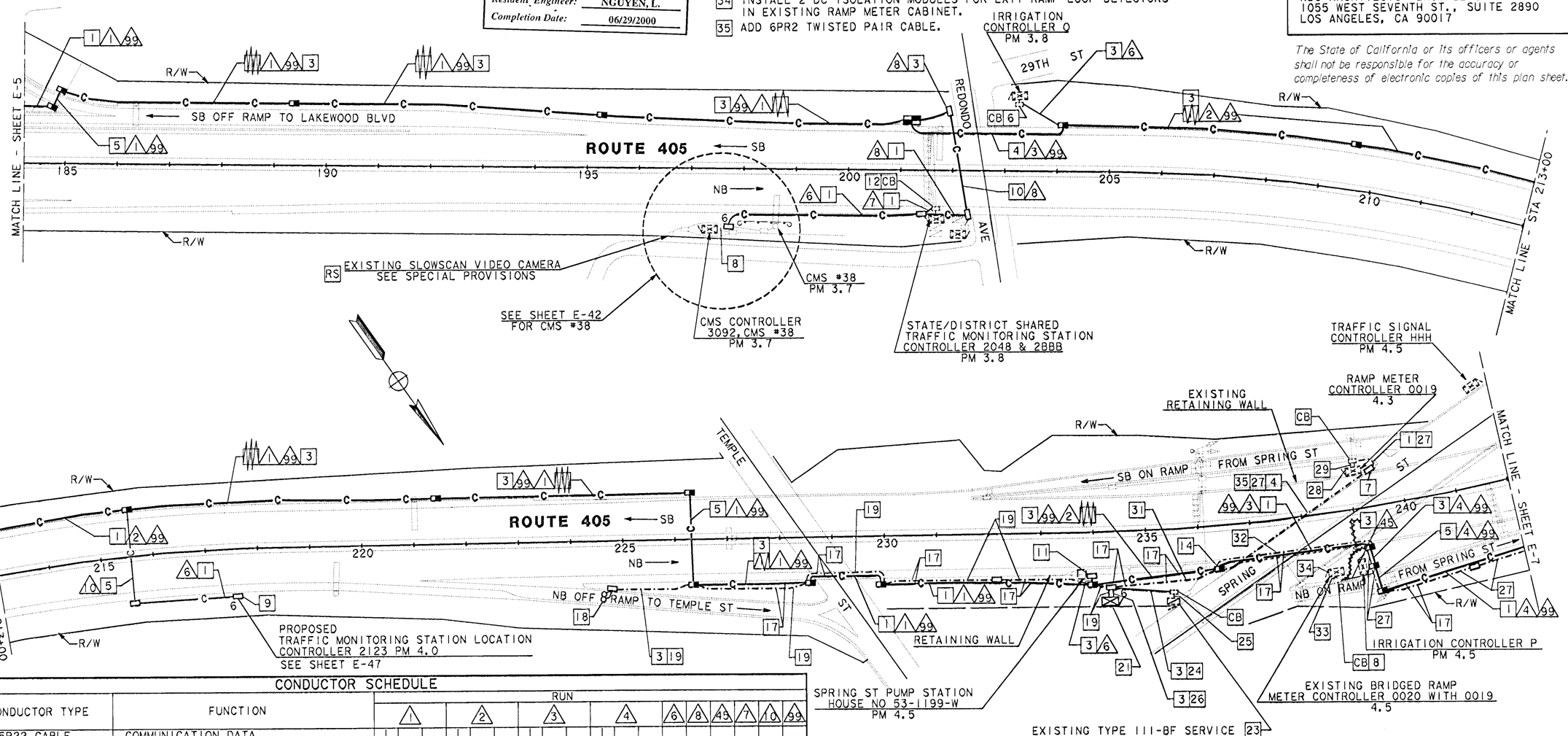
32 INSTALL 2"C, 3#14 COUNT DETECTOR CABLES.

33 INSTALL 2#14 COUNT DETECTOR CABLES INTO EXISTING CONDUIT.

34 INSTALL 2 DC ISOLATION MODULES FOR EXIT RAMP LOOP DETECTORS IN EXISTING RAMP METER CABINET.

35 ADD 6PR2 TWISTED PAIR CABLE.

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000



CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	2	3	4	6	8	45	7	10	99
75P22 CABLE	COMMUNICATION DATA	1	1	1	1						
6P22 CABLE	CONTROLLER DATA		1	2	3	1	3	1	2	1	
72SMFO	DATA/VIDEO NODE TO HUB	1	1	1	1						
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1	1						
1#14 AWG	COUNT DETECTOR CABLE							2			
	INNERDUCT	1/4" 1/4"	1/4" 1/4"	1/4" 1/4"	1/4" 1/4"						
	CONDUIT SIZE	4"	4"	4"	4"	2"	2"	2"	2"	4"	4"

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

CCTV AND COMMUNICATION SYSTEM ROUTING AND MODIFY RAMP METERING SYSTEM (LOCATION 0020)

SCALE: 1" = 100'

E-6

REVISED BY	DATE REVISED
DP	7/94
RL	7/94

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

712082u0613135929 13-Apr-2001 HHuynh

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USERNAME => HHuynh
DGN FILE => 712082u0613135929

CU 07396

EA 120821

LAST REVISION DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u07.dgn DATE: Fri Apr 13 2001 TIME: 14:00

PROJECT NOTES: (THIS SHEET ONLY)

11 COIL 30 FEET OF 6P22 CABLE IN NEW PB FOR PUMP HOUSE CONNECTION.
17 INSTALL CONDUITS IN THE SAME TRENCH.
18 INSTALL TYPE E COUNT DETECTOR.
19 INSTALL 2"C, 1-DLC.
21 INSTALL STATE-FURNISHED TYPE 334 CABINET.
23 ADD (METERED) 15A, 120V, 1P CIRCUIT BREAKER FOR TYPE 334 CABINET IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
24 INSTALL 2"C, 2#8 SERVICE CONDUCTORS FOR TYPE 334 CABINET.
25 ADD 2#8 IN EXISTING CONDUIT FOR TYPE 334 CABINET.
26 INSTALL 2"C, 2#8 SERVICE CONDUCTORS AND 1#14 COUNT DETECTOR CABLE.
27 INSTALL 2"C, 1#14 COUNT DETECTOR CABLE.
30 ADD 2#8 INTO CCTV SERVICE CONDUIT. SEE SHEET E-25 FOR CONDUIT SIZE AND INSTALLATION TYPE.

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 3	RUN 4	RUN 6	RUN 7	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1	1	1			
6P22 CABLE	CONTROLLER DATA		1	2	3	1	2	
72SMFO	DATA/VIDEO NODE TO HUB	1	1	1	1			
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1	1			
	INNERDUCT	1 1/4"	1 1/4"	1 1/4"	1 1/4"			
	CONDUIT SIZE	4"	4"	4"	4"	2"	2"	4"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	64	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

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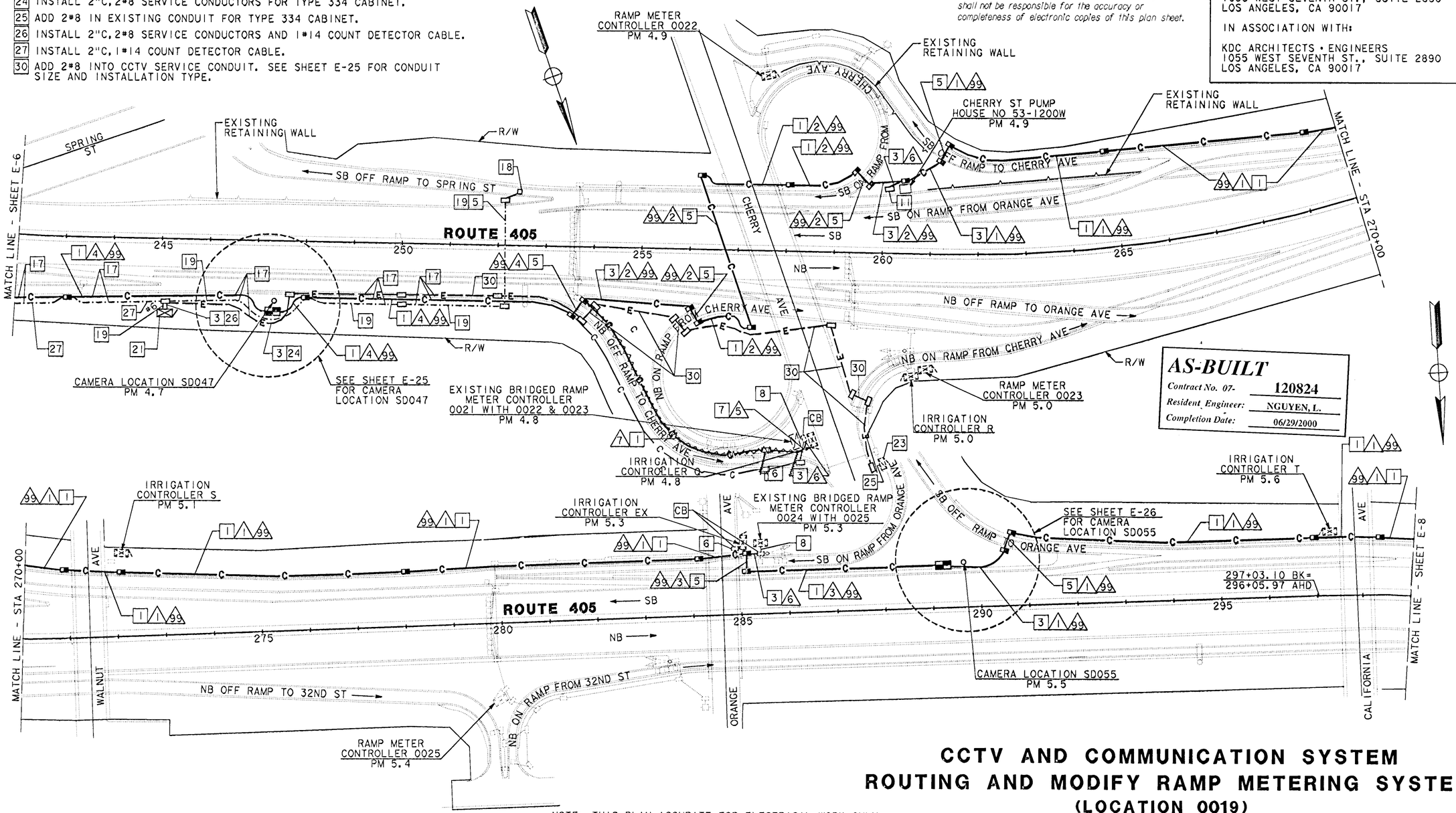
DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017



AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM ROUTING AND MODIFY RAMP METERING SYSTEM (LOCATION 0019)

SCALE: 1" = 100'

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

E-7

DATE	REVISED BY	DATE REVISED
7/94	RL	7/94

CALCULATED/DESIGNED BY: DP
CHECKED BY: RL
DESIGN OVERSIGHT: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
712082u0713135844 13-Apr-2001 HHuynh

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07396 EA 120821

LAST REVISION

FORM DC-OE-92-PF (REV. 3/88)
USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u07.dgn DATE: Fri Apr 13 2001 TIME: 14:00

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u08.dgn DATE: Fri Apr 13 2001 TIME: 13:56

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	65	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

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DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

DATE	REVISED BY
7/94	DP
7/94	RL

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT ENGINEER
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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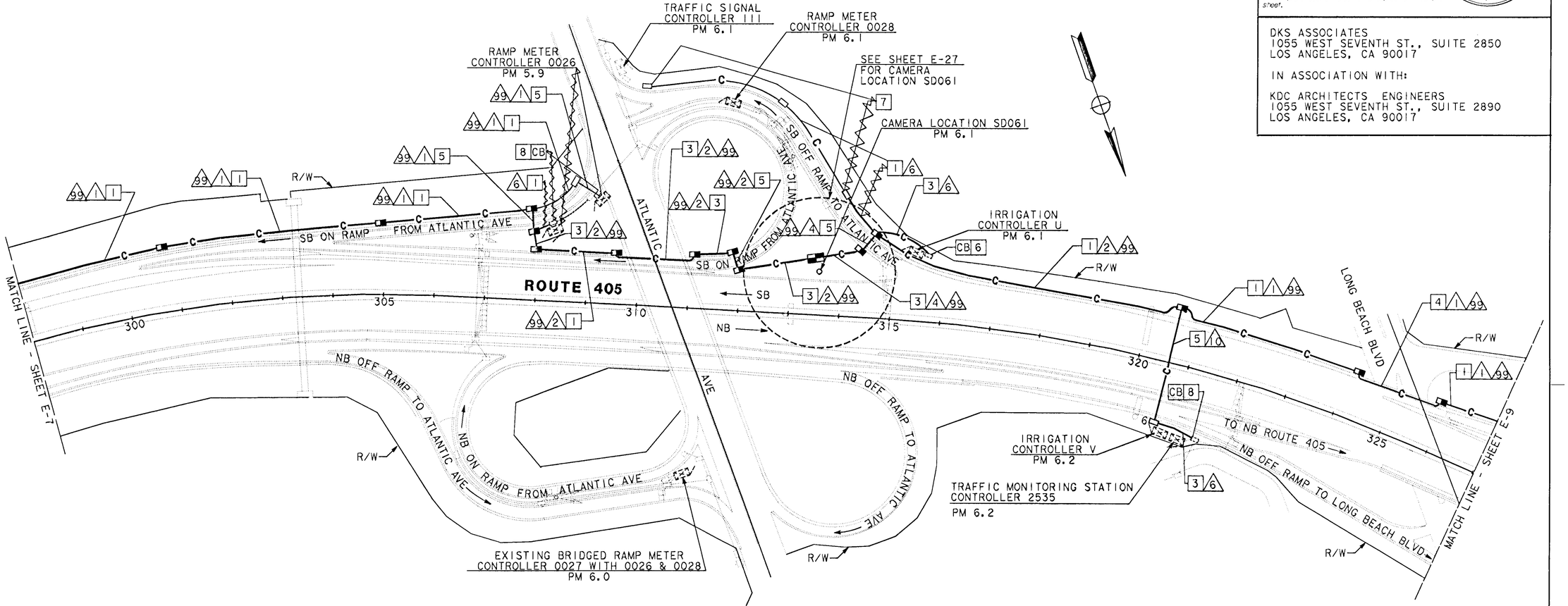

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 4	RUN 6	RUN 10	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1	1			
6P22 CABLE	CONTROLLER DATA		1	3	1	1	
72SMFO	DATA/VIDEO NODE TO HUB	1	1	1			
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1			
	INNERDUCT	1 1/4"	1 1/4"	1 1/4"			
	CONDUIT SIZE	4"	4"	4"	2"	4"	4"

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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

E-8

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u08l3135446

CU 07396 EA 120821

LAST REVISION DATE PLOTTED => 13-Apr-2001

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u08.dgn DATE: Fri Apr 13 2001 TIME: 13:56

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 4	RUN 6	RUN 7	RUN 10	RUN 11	RUN 15	RUN 37	RUN 38	RUN 39	RUN 2	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1					1	1	1		1	
6P22 CABLE	CONTROLLER DATA		3		1	2	1	2		2		1	
72SMFO	DATA/VIDEO NODE TO HUB		1						1				1
2SMFO B/O CABLE	NODE CONTROL								4				
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1					1				1	
2SMFO B/O CABLE	SHORT HAUL VIDEO								1				
	INNERDUCT	1 1/4"	1 1/4"					1 1/4"	1 1/4"			1 1/4"	1 1/4"
	CONDUIT SIZE	4"	4"	2"	2"	4"	4"	4"	4"	4"	4"	4"	4"

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var.	66	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — EXP. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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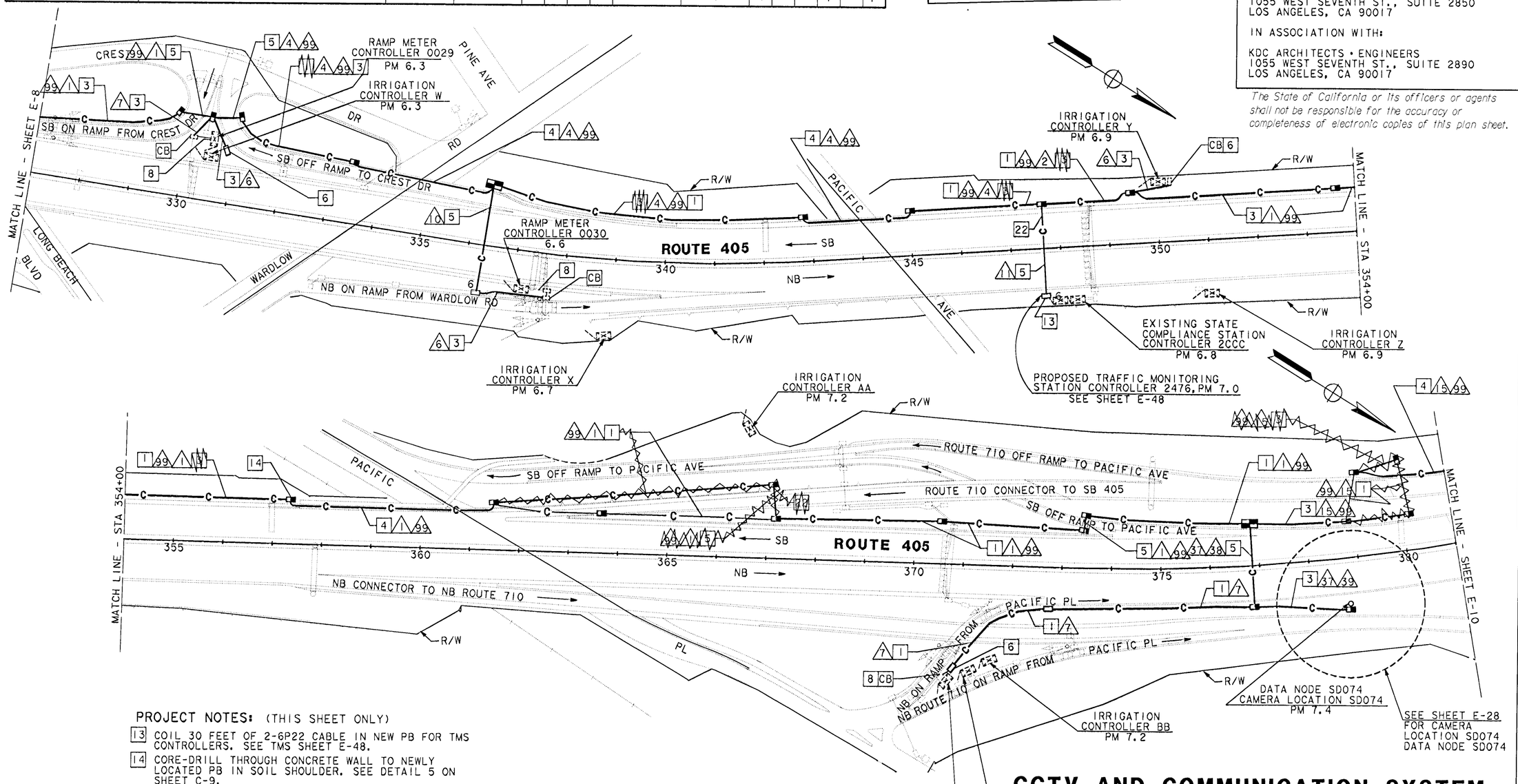

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

PROJECT NOTES: (THIS SHEET ONLY)

13 COIL 30 FEET OF 2-6P22 CABLE IN NEW PB FOR TMS CONTROLLERS. SEE TMS SHEET E-48.

14 CORE-DRILL THROUGH CONCRETE WALL TO NEWLY LOCATED PB IN SOIL SHOULDER. SEE DETAIL 5 ON SHEET C-9.

22 CORE-DRILL THROUGH SOUNDWALL TO NEWLY LOCATED PB BEHIND SOUNDWALL. SEE SHEET C-12.

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

E-9

DATE	BY	REVISED
7/94	DP	DATE REVISED
7/94	RL	

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

712082u09135205 13-Apr-2001 HHuynh

DATE PLOTTED => 13-Apr-2001

LAST REVISION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	67	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KENNETH D CAMP
No. E012917
Exp. 3/31/97
ELECTRICAL
STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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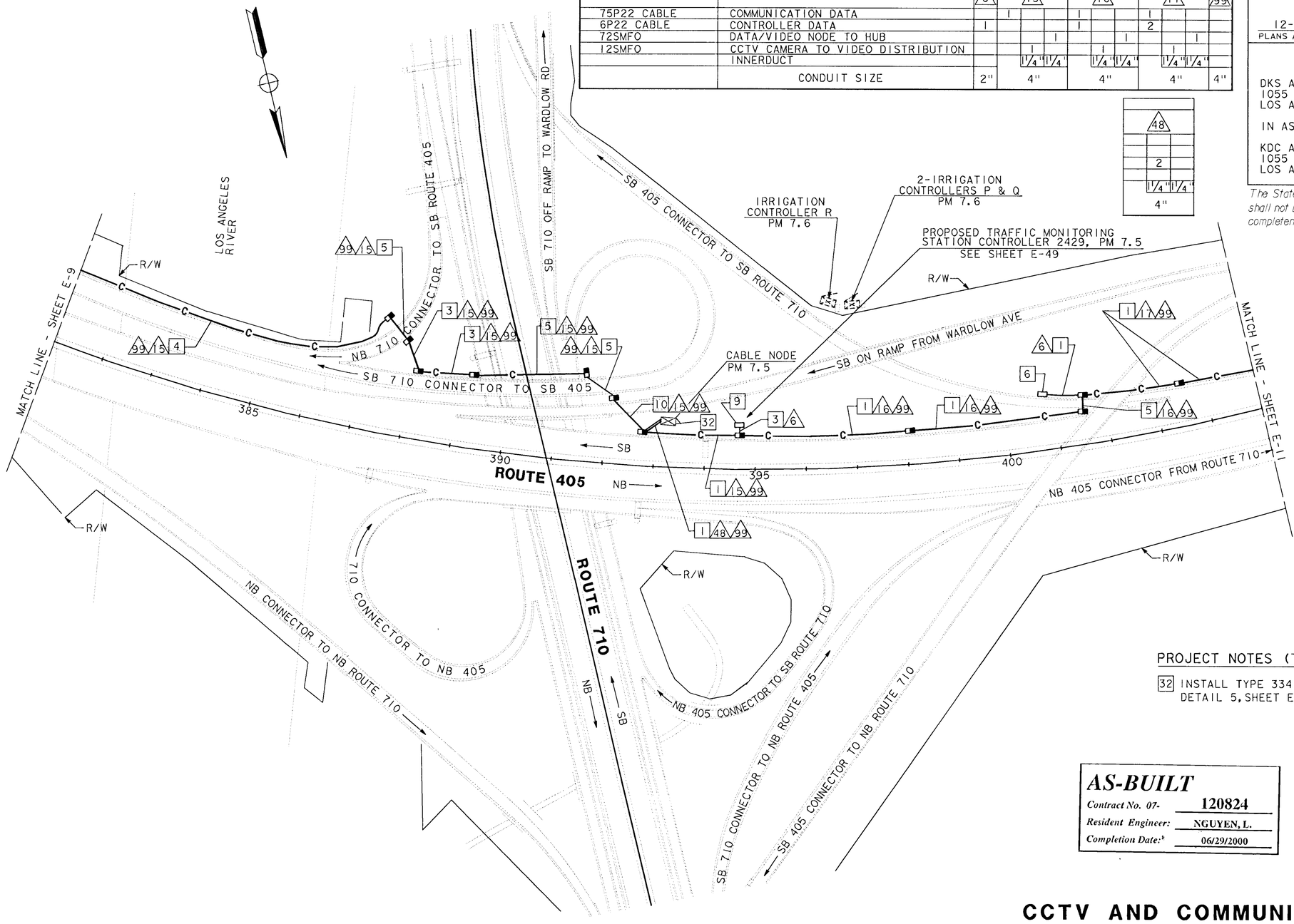
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 6	RUN 15	RUN 16	RUN 17	RUN 99
75P22 CABLE	COMMUNICATION DATA		1	1	1	
6P22 CABLE	CONTROLLER DATA	1		1	2	
72SMFO	DATA/VIDEO NODE TO HUB		1	1	1	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1	1	1	
	INNERDUCT		1 1/4"	1 1/4"	1 1/4"	
	CONDUIT SIZE	2"	4"	4"	4"	4"

48 | 2 | 1 1/4" | 4"



PROJECT NOTES (THIS SHEET ONLY)

32 INSTALL TYPE 334 CABINET. SEE DETAIL 5, SHEET E-66.

AS-BUILT

Contract No. 07-	120824
Resident Engineer:	NGUYEN, L.
Completion Date:	06/29/2000

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-10

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT: PAT SULLIVAN

CALCULATED/DESIGNED BY
DP 7/94 REVISED BY
RL 7/94 DATE REVISED
CHECKED BY

LAST REVISION 00-00-00
DATE PLOTTED => 26-Dec-1996
TIME PLOTTED => 15:39

[ESC-OE]712082ui10.psf 26-Dec-1996 trphils

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trphils
DGN FILE => [ESC-OE]712082ui10.psf

CU 07396

EA 120821

USERID: HHuynh@T7NT6044 F: f:\projects\120821_ug\gb\712082u11.dgn DATE: Fri Apr 13 2001 TIME: 13:52

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	2	3	4	6	7	11	17	18	40	99
75P22 CABLE	COMMUNICATION DATA	1	1	2	3	1	2	2	2	5	3	
6P22 CABLE	CONTROLLER DATA											
72SMFO	DATA/VIDEO NODE TO HUB	1	1	1	1				1	1		
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1										
	INNERDUCT	1/4" 1/4"	1/4" 1/4"	1/4" 1/4"	1/4" 1/4"				1/4" 1/4"	1/4" 1/4"		
	CONDUIT SIZE	4"	4"	4"	4"	2"	2"	4"	4"	4"	4"	4"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var.	68	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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SB OFF RAMP TO SANTA FE AVE
2-IRRIGATION CONTROLLERS N & O PM 8.1
CAMERA LOCATION SD081 PM 8.1
SANTA FE AVE
WARDLOW RD
SEE SHEET E-29 FOR CAMERA LOCATION SD081
RAMP METER CONTROLLER 0078 PM 8.1
R/W
IRRIGATION CONTROLLER M PM 8.4
PROPOSED TRAFFIC MONITORING STATION CONTROLLER 2124, PM 8.4
SEE SHEET E-50
SB ON RAMP FROM WARDLOW RD
SB 405 CONNECTOR TO NB ROUTE 710
MATCH LINE - SHEET E-10
SB
NB
ROUTE 405
UNION PACIFIC RR
MATCH LINE - STA 434+00
FROM SANTA FE AVE
NB OFF RAMP TO SANTA FE AVE
NB ON RAMP
RAMP METER CONTROLLER 0079 PM 8.0
RAMP METER CONTROLLER 0077 PM 8.6
TRAFFIC SIGNAL CONTROLLER JJJ PM 8.0
TRAFFIC SIGNAL CONTROLLER KKA PM 8.7
WARNOCK WAY
WARDLOW RD / 223RD ST
CAMERA LOCATION SD086 PM 8.6
SEE SHEET E-30 FOR CAMERA LOCATION SD086
2-IRRIGATION CONTROLLERS K & L PM 8.6
RIVER AVE
MCHELEN AVE
SB OFF RAMP TO WARDLOW RD/223RD ST
SB ON RAMP FROM WARDLOW RD/223RD
435+00.00 BK = 434+20.64 AHD
NB OFF RAMP TO ALAMEDA ST
NB ON RAMP FROM ALAMEDA ST
ALAMEDA ST
SPT CO
RAMP METER CONTROLLER 0080 PM 8.7
TRAFFIC SIGNAL CONTROLLER KKK PM 8.7
FOR CONTINUATION SEE DETAIL "A"
MATCH LINE - SHEET E-12

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date:* 06/29/2000

PROJECT NOTES (THIS SHEET ONLY)

22 CORE-DRILL THROUGH SOUNDWALL TO NEWLY LOCATED PB BEHIND SOUNDWALL. SEE SHEET C-12.

DETAIL A
SCALE : 1"=50'

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

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-11

DATE	REVISED BY
7/94	DP
7/94	RL

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

712082u1113135137 13-Apr-2001 HHuynh

LAST REVISION DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u1113135137

CU 07396 EA 120821

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u11.dgn DATE: Fri Apr 13 2001 TIME: 13:52

USER ID: HHuynh@T7NT6044 FILE: (:\projects\120821_ug\gb\712082u12.dgn DATE: Fri Apr 13 2001 TIME: 13:51

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 4	RUN 6	RUN 7	RUN 8	RUN 10	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1	1					
6P22 CABLE	CONTROLLER DATA	1	1	1					
72SMFO	SONET/CCTV TRUNK	1	1	3	1	2	3	1	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1					
	INNERDUCT	1 1/4"	1 1/4"	1 1/4"					
	CONDUIT SIZE	4"	4"	4"	2"	2"	2"	4"	4"

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.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	69	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

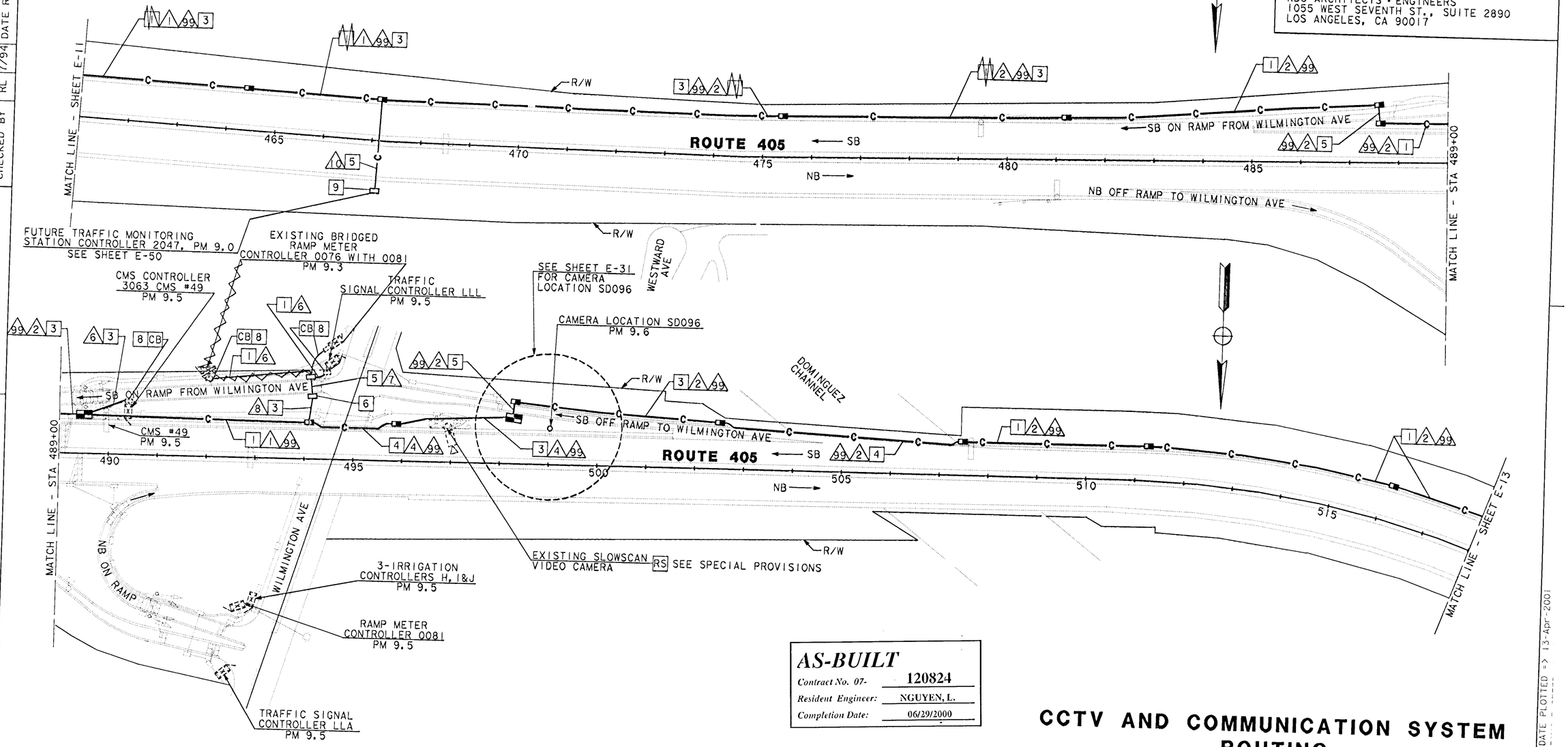
12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017



AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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

E-12

DATE	REVISED BY
7/94	DP
7/94	RL

DATE REVISED | CALCULATED/DESIGNED BY | CHECKED BY

DESIGN OVERSIGHT PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

HHuynh 13-Apr-2001 712082u1213135010

FORM DC-OE-92-PF (REV. 3/88)

USER ID: HHuynh@T7NT6044 FILE: (:\projects\120821_ug\gb\712082u12.dgn DATE: Fri Apr 13 2001 TIME: 13:51

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u1213135010

CU 07396 EA 120821

LAST REVISION DATE PLOTTED => 13-Apr-2001

USER ID: HHuynh@T7NT6044 F. F. f:\projects\120821_ug\gb\712082u13.dgn DATE: Fri Apr 13 2001 TIME: 13:50

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	70	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

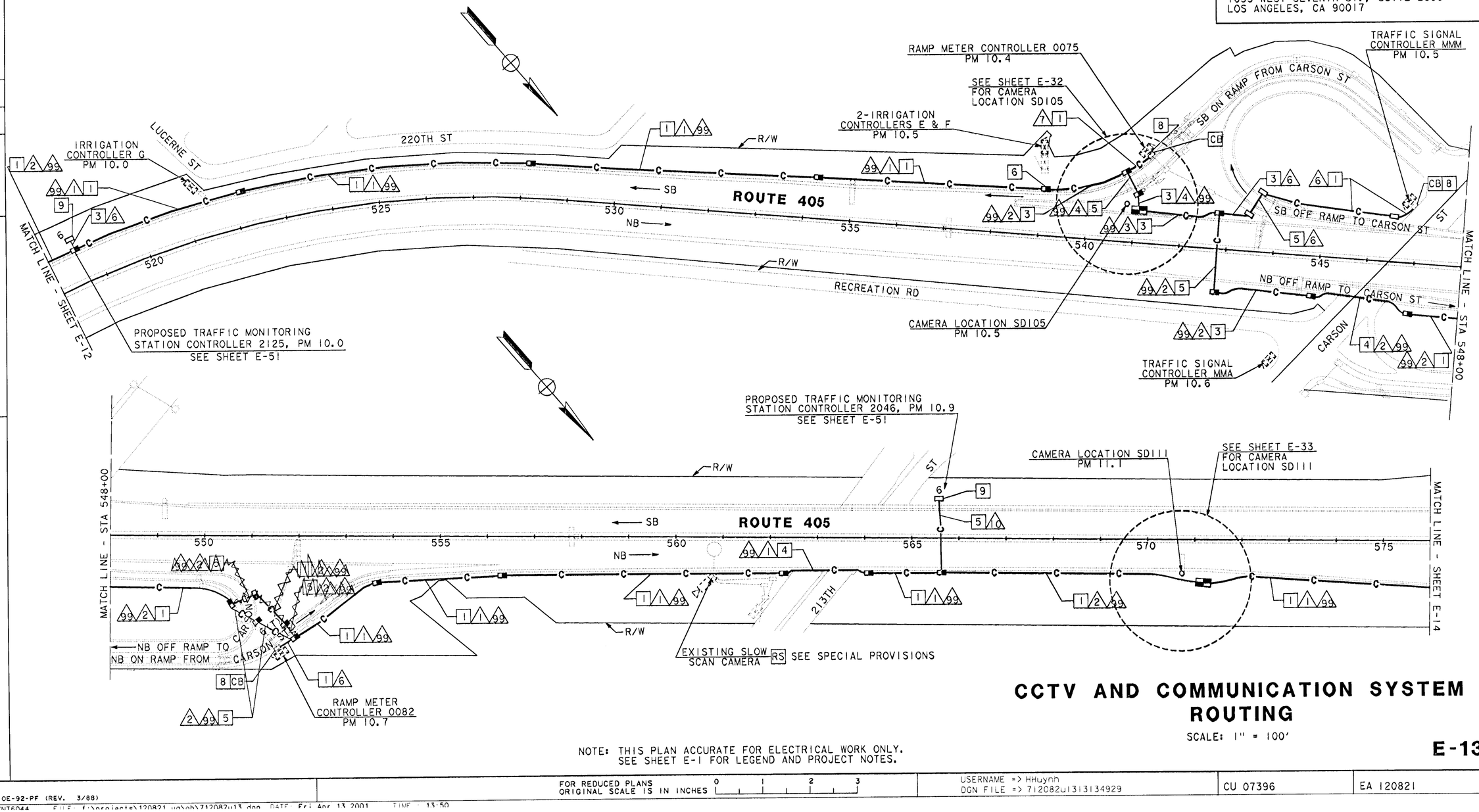
IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 3	RUN 4	RUN 6	RUN 7	RUN 10	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1	2	3	1	2	1	
6P22 CABLE	CONTROLLER DATA								
72SMFO	DATA/VIDEO NODE TO HUB	1	1	1	1				
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1	1				
	INNERDUCT	1 1/4"	1 1/4"	1 1/4"	1 1/4"				
	CONDUIT SIZE	4"	4"	4"	4"	2"	2"	4"	4"

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000



CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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

E-13

CALCULATED/ DESIGNED BY	DP	DATE 7/94	REVISED BY
CHECKED BY	RL	7/94	DATE REVISED

DESIGN OVERSIGHT — PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION — DATE PLOTTED => 13-Apr-2001

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u1313134929

CU 07396

EA 120821

FORM DC-OE-92-PF (REV. 3/88)

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u13.dgn DATE: Fri Apr 13 2001 TIME: 13:50

LSERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u14.dgn DATE: Fri Apr 13 2001 TIME: 13:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	71	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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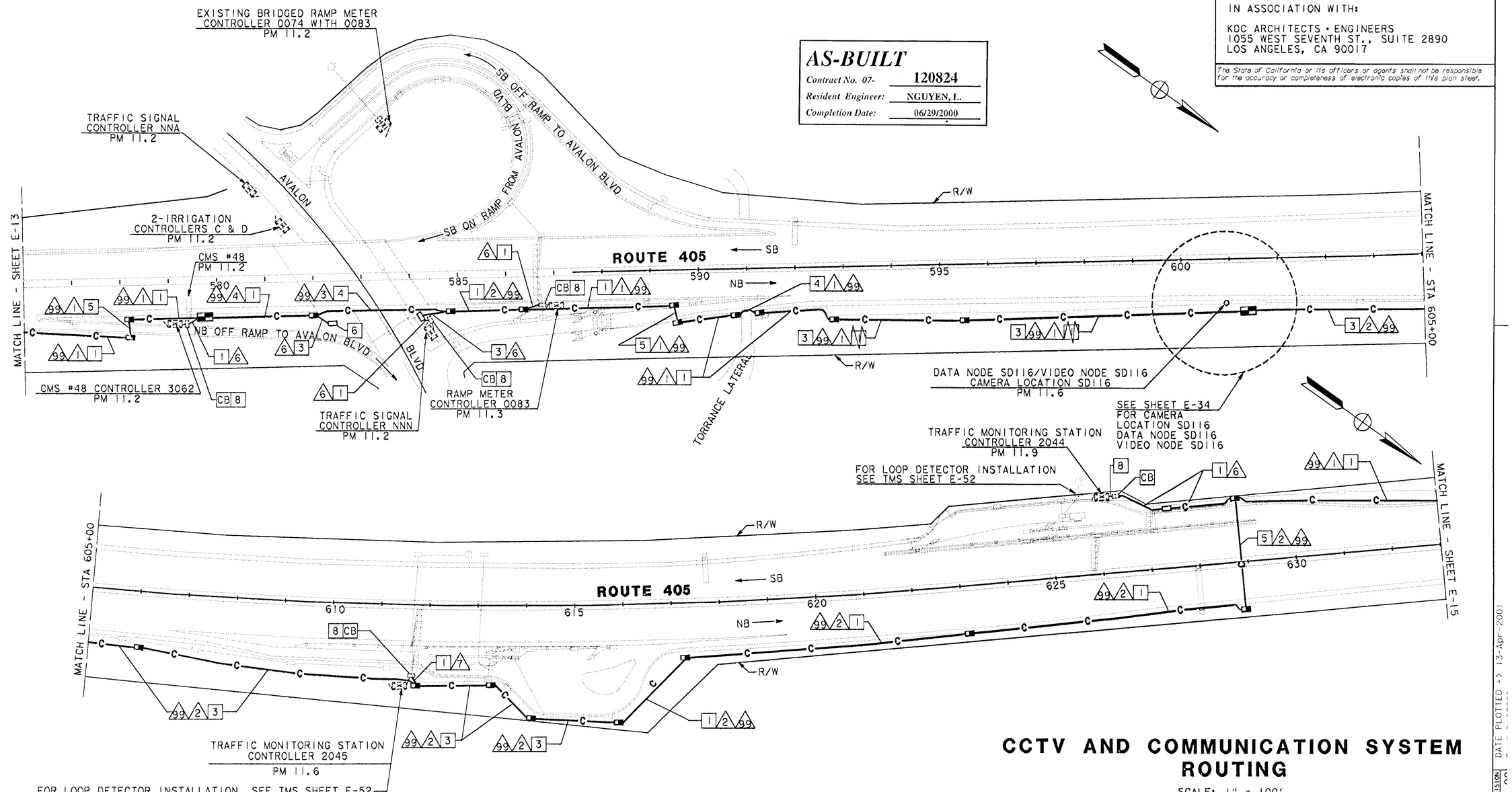
CONDUCTOR SCHEDULE												
CONDUCTOR TYPE	FUNCTION	RUN 1			RUN 2			RUN 3			RUN 4			6	7	99
75P22 CABLE	COMMUNICATION DATA	1			1			1			1					
6P22 CABLE	CONTROLLER DATA				1			2			3			1	2	
72SMFO	DATA/VIDEO NODE TO HUB			1			1			1			1			
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION			1			1			1			1			
	INNERDUCT	1 1/4"	1 1/4"		1 1/4"	1 1/4"		1 1/4"	1 1/4"		1 1/4"	1 1/4"				
	CONDUIT SIZE	4"			4"			4"			4"			2"	2"	4"

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000



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

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-14

CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
CHECKED BY	7/94	RL	7/94

DESIGN OVERSIGHT — PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION — DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u1413134847

CU 07396

EA 120821

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u14.dgn DATE: Fri Apr 13 2001 TIME: 13:49

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u15.dgn DATE: Fri Apr 13 2001 TIME: 13:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	72	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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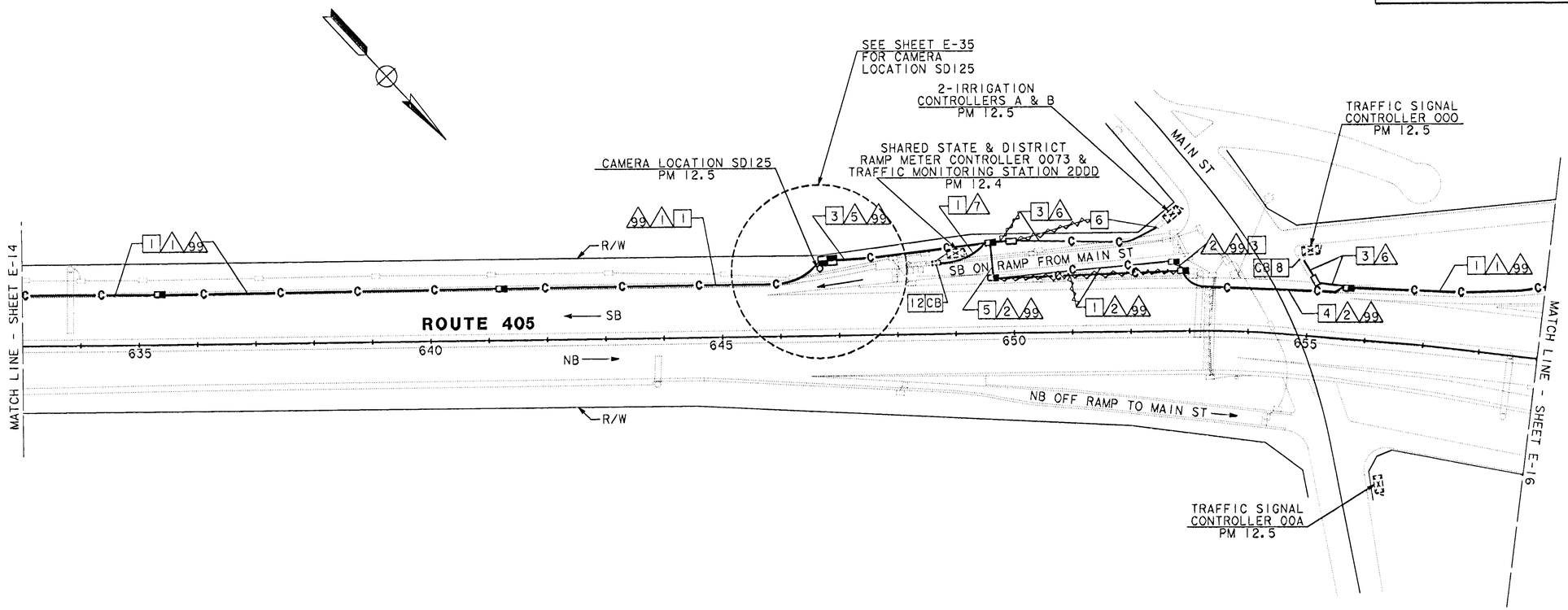
CONDUCTOR SCHEDULE										
CONDUCTOR TYPE	FUNCTION	RUN 1			RUN 2			RUN 5			RUN 6	RUN 7	RUN 99
75P22 CABLE	COMMUNICATION DATA	1			1			1					
6P22 CABLE	CONTROLLER DATA				1			4			1	2	
72SMFO	DATA/VIDEO NODE TO HUB			1			1			1			
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1			1			1					
	INNERDUCT	1 1/4"	1 1/4"		1 1/4"	1 1/4"		1 1/4"	1 1/4"				
	CONDUIT SIZE	4"			4"			4"			2"	2"	4"



PROJECT NOTES: (THIS SHEET ONLY)

12 CONNECT 1-6P22 TO DISTRICT CONTROLLER IN CABINET. COIL OTHER 6P22 IN PB FOR STATE EQUIPMENT.

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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

E-15

DATE	REVISED BY
7/94	DATE REVISED
DP	CALCULATED/ DESIGNED BY
RL 7/94	CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u1513134806

CU 07396

EA 120821

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u15.dgn DATE: Fri Apr 13 2001 TIME: 13:48

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u16.dgn DATE: Fri Apr 13 2001 TIME: 13:38

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	2	3	6	8	20	32	33	12	42	48	99
75P22 CABLE	COMMUNICATION DATA	1	1	1						1			
6P22 CABLE	CONTROLLER DATA	1	1	2	1	3	2	3	4	1	1		
72SMFO	DATA/VIDEO NODE TO HUB	1	1	1								2	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1							1		
2SMFO B/O CABLE	SHORT HAUL VIDEO						1						
2SMFO B/O CABLE	CCTV CAMERA TO VIDEO DISTRIBUTION							1	1	1			
	INNERDUCT	1¼" 1¼"	1¼" 1¼"	1¼" 1¼"							1¼" 1¼"	1¼" 1¼"	
	CONDUIT SIZE	4"	4"	4"	2"	2"	4"	4"	4"	4"	4"	4"	4"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	73	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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DATE	REVISED BY
7/94	DATE REVISED

CALCULATED/DESIGNED BY: DP 7/94
CHECKED BY: RL 7/94

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

MATCH LINE - SHEET E-20

PROPOSED TRAFFIC MONITORING STATION CONTROLLER 2264, PM 12.6
SEE SHEET E-53

TRAFFIC MONITORING STATION CONTROLLER 2337 PM 8.2 (SR-110)

NB 110 CONNECTOR TO SB ROUTE 405

NB 110 CONNECTOR TO NB ROUTE 405

SB ROUTE 110

SB 405 CONNECTOR TO SB ROUTE 110

SB 405 CONNECTOR TO NB ROUTE 110

SB 110 CONNECTOR TO SB ROUTE 405

SB ROUTE 405

NB 110 CONNECTOR TO NB ROUTE 405

NB 405 CONNECTOR TO SB ROUTE 110

SB 110 CONNECTOR TO NB ROUTE 405

NB CONNECTOR TO 110 (CARS)

NB CONNECTOR TO 110 (TRUCKS)

CABLE NODE PM 8.5

FIGUEROA

ANELO AVE

R/W

5KV

TRAFFIC MONITORING STATION CONTROLLER 2477 PM 13.0

TRAFFIC MONITORING STATION CONTROLLER 2480 PM 13.2

CAMERA LOCATION SD132 PM 13.2

SEE SHEET E-36 FOR CAMERA LOCATION SD132

SEE SHEET E-41 FOR CAMERA LOCATION HA089

CAMERA LOCATION HA089 PM 8.9 (SR-110)

MATCH LINE - SHEET E-17

MATCH LINE - SHEET E-15

PROJECT NOTES (THIS SHEET ONLY)

17 INSTALL CONDUITS IN THE SAME TRENCH.

32 INSTALL TYPE 334 CABINET. SEE DETAIL 5, SHEET E-66.

33 RC EXISTING PULL BOX.

34 INSTALL 1½"C, 2 DLC

35 ADD ~~3~~ 4 DLC, REMOVE EXISTING DLC'S.

36 INSTALL TWO LOOP SENSOR/DC ISOLATION UNITS IN EXISTING CABINET AND CONNECT DLC CABLES.

37 INSTALL 1 DLC IN EXISTING CONDUIT.

38 INSTALL 2"C, 2 DLC.

39 INSTALL 3 DLC IN EXISTING CONDUIT. RC EXISTING DLC'S.

40 INSTALL 4 DLC IN EXISTING CONDUIT AND CONNECT DLC CABLES IN CABINET. RC EXISTING DLC'S.

41 INSTALL 1½"C, 8 DLC.

42 ADD ~~10~~ 4 DLC, REMOVE EXISTING DLC'S.

43 ADD 3 DLC, REMOVE EXISTING DLC'S.

44 ADD ~~6~~ 4 DLC, REMOVE EXISTING DLC'S.

45 PLACE NUMBER 5 TRAFFIC PULL BOX AS CLOSE TO MEDIAN BARRIER AS POSSIBLE.

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

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM ROUTING AND MODIFY RAMP METERING SYSTEM AND TRAFFIC MONITORING STATION (LOCATION 2337, 2477 AND 2480)

SCALE: 1" = 100'

E-16

LAST REVISION | DATE PLOTTED = 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u1613133752

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u16.dgn DATE: Fri Apr 13 2001 TIME: 13:38

USERID: HHuynh@T7NT6044 F.I.F: f:\projects\120821_ug\ab\712082u17.dgn DATE: Fri Apr 13 2001 TIME: 13:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	74	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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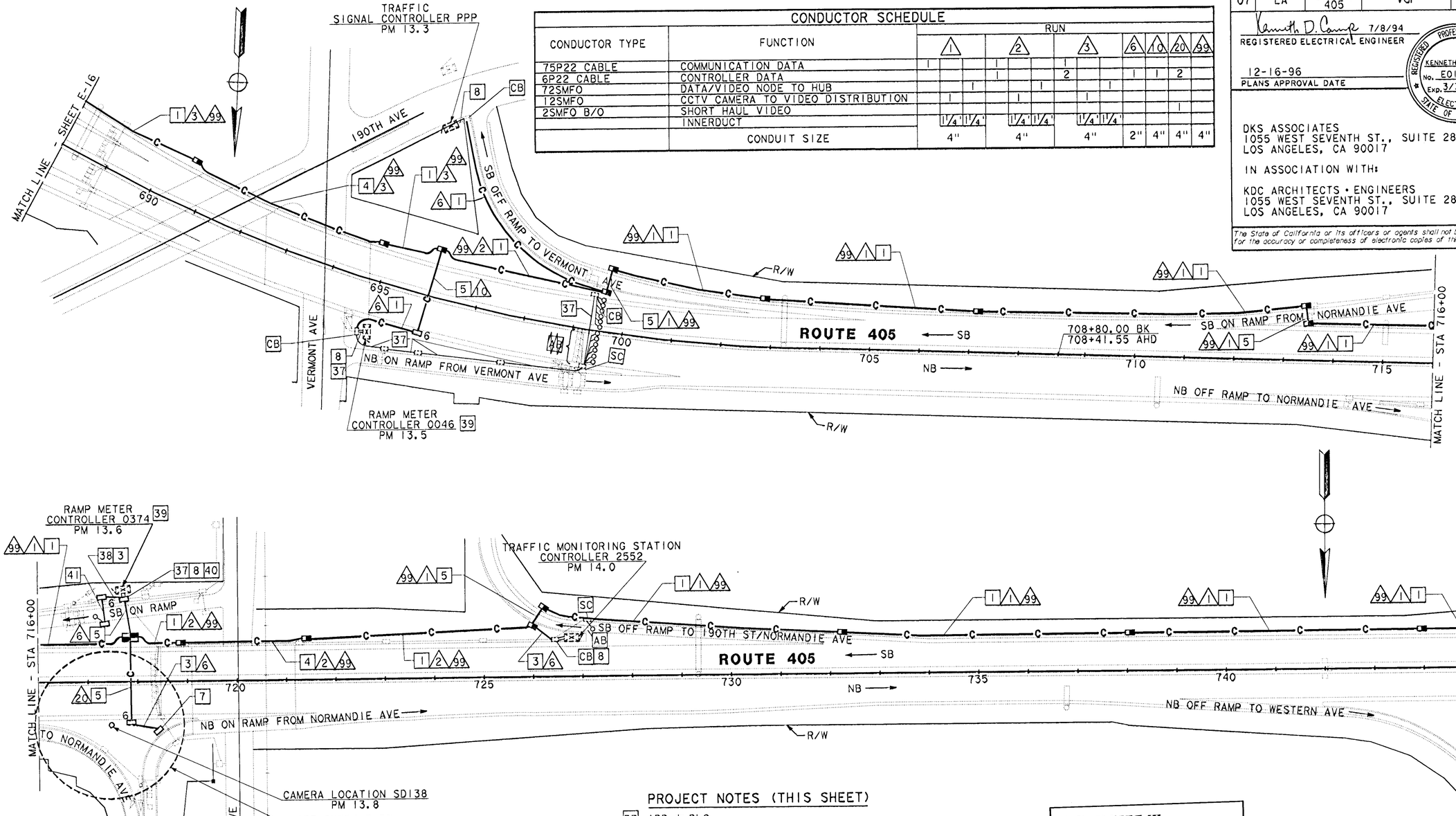
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 3	RUN 6	RUN 10	RUN 20	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1	1				
6P22 CABLE	CONTROLLER DATA	1	1	2		1	1	2
72SMFO	DATA/VIDEO NODE TO HUB	1	1	1				
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1				
2SMFO B/O	SHORT HAUL VIDEO	1	1	1			1	
	INNERDUCT	1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	2"	4"	4"	4"
	CONDUIT SIZE	4"	4"	4"				



PROJECT NOTES (THIS SHEET)

37 ADD ±6 DLC.
38 INSTALL 1½"C, 1 DLC FOR HOV LANE.
39 INSTALL LOOP SENSOR/DC ISOLATION UNIT IN EXISTING CABINET AND CONNECT DLC CABLE.
40 RC EXISTING PULL BOX.
41 INSTALL 2"C, 1 DLC FOR HOV LANE.

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

AS-BUILT
Contract No: 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM ROUTING AND MODIFY RAMP METERING SYSTEM (LOCATIONS 2552, 0046, 0047, & 0374)

SCALE: 1" = 100'

E-17

CALCULATED/ DESIGNED BY	DP	7/94	REVISED BY
CHECKED BY	RL	7/94	DATE REVISED

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 13-Apr-2001

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u1713133640

CU 07396

EA 120821

FORM DC-OE-92-PF (REV. 3/88)

USERID: HHuynh@T7NT6044 F.I.F: f:\projects\120821_ug\ab\712082u17.dgn DATE: Fri Apr 13 2001 TIME: 13:37

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u18.dgn DATE: Fri Apr 13 2001 TIME: 13:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	75	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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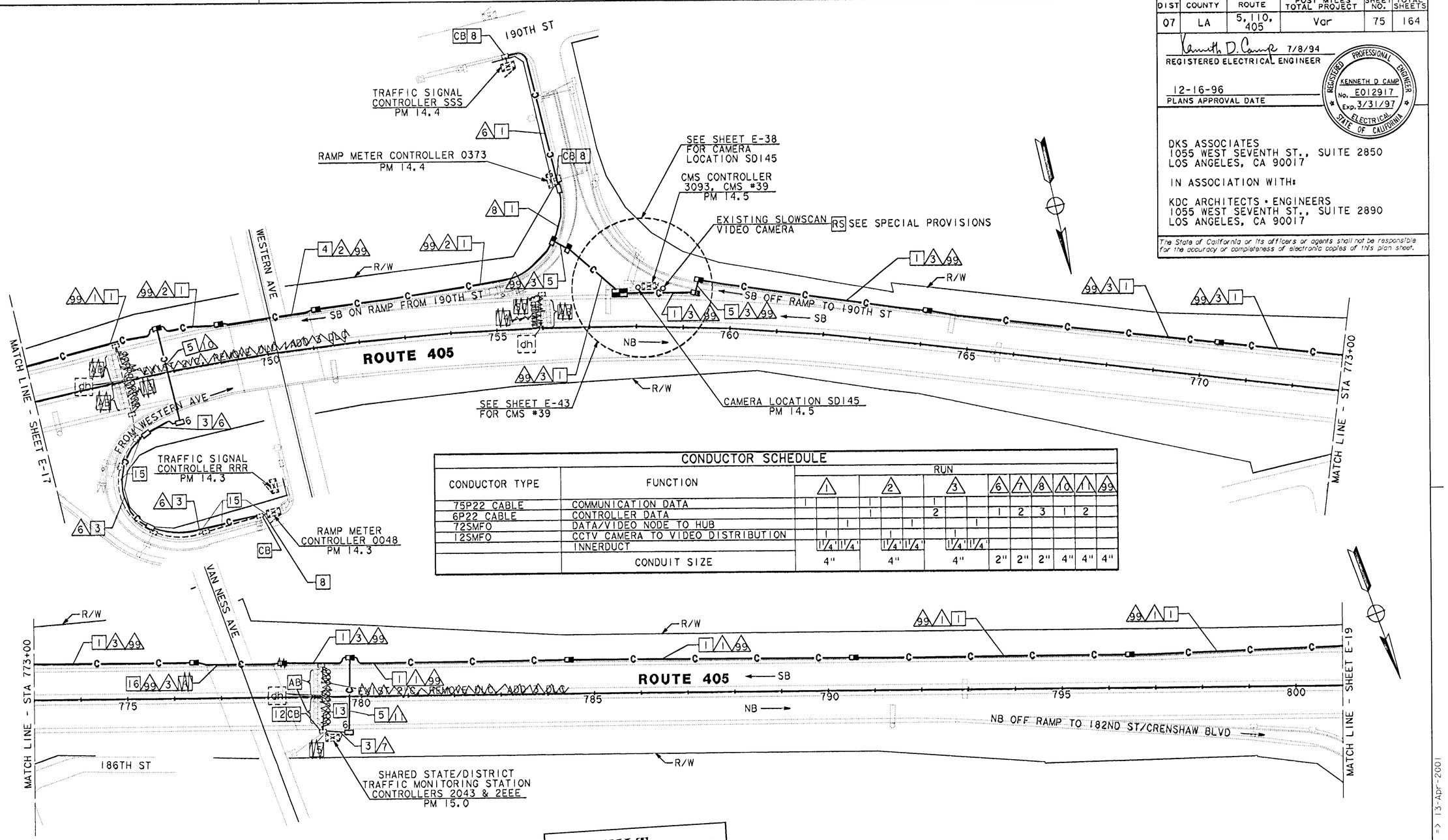
DATE	REVISED BY
7/94	DP
7/94	RL

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 3	RUN 6	RUN 7	RUN 8	RUN 10	RUN 11	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1	1						
6P22 CABLE	CONTROLLER DATA	1	1	2	1	2	3	1	2	
72SMFO	DATA/VIDEO NODE TO HUB	1	1	1						
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1	1						
	INNERDUCT	1/4"	1/4"	1/4"						
	CONDUIT SIZE	4"	4"	4"	2"	2"	2"	4"	4"	4"

PROJECT NOTES: (THIS SHEET ONLY)

12 CONNECT 1-6P22 TO DISTRICT CONTROLLER IN CABINET. COIL OTHER 6P22 IN PB FOR STATE EQUIPMENT.

~~13 EXISTING 2"C. REMOVE EXISTING LOOP CONDUCTORS. INSTALL NEW LOOP CONDUCTORS AND 3-DLC.~~

~~14 EXISTING 2"C. REMOVE EXISTING LOOP CONDUCTORS.~~ INSTALL NEW LOOP CONDUCTORS.

~~15 REMOVE MAINLINE DLC. ADD 10 DLC.~~

16 INSTALL INSIDE SOFFIT BY ANOTHER CONTRACTOR

AS-BUILT
Contract No: 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

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

CCTV AND COMMUNICATION SYSTEM ROUTING AND MODIFY RAMP METERING SYSTEM (LOCATIONS 0048, 0373, & 2043)

SCALE: 1" = 100'

E-18

LAST REVISION DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u1813133544

CU 07396

EA 120821

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u18.dgn DATE: Fri Apr 13 2001 TIME: 13:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	76	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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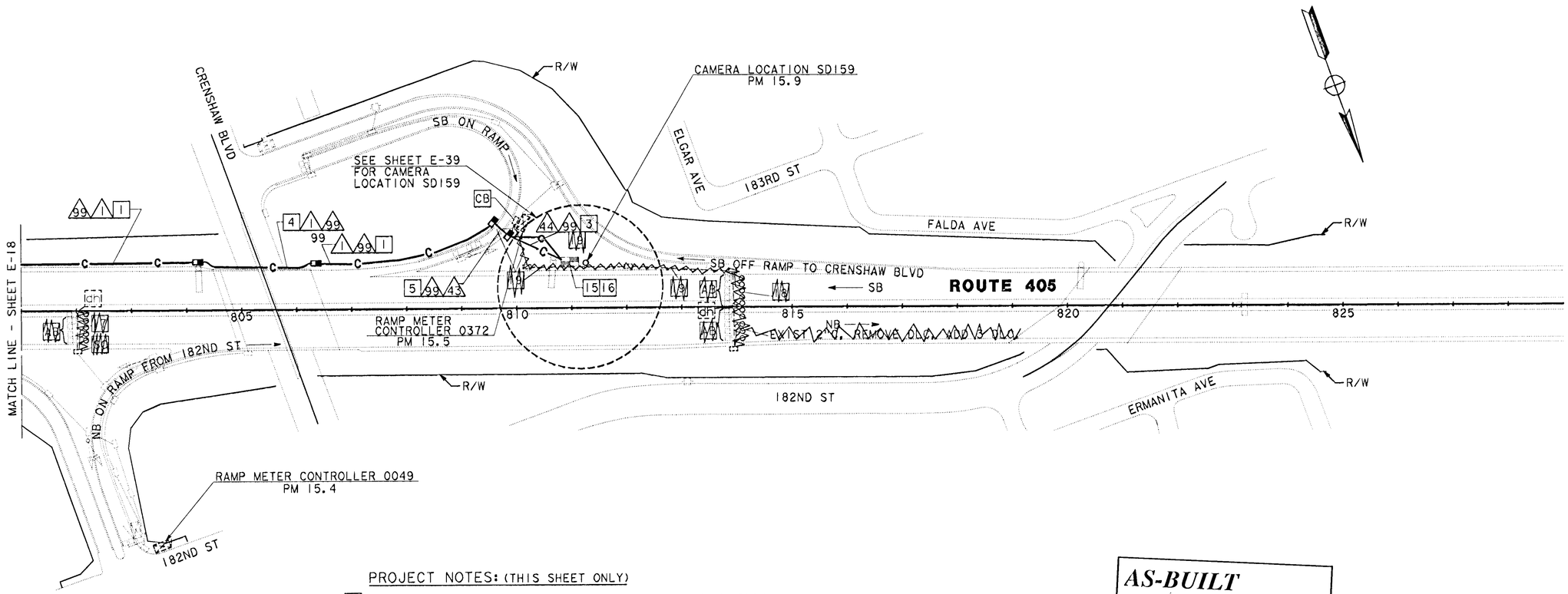
CONDUCTOR SCHEDULE												
CONDUCTOR TYPE	FUNCTION	RUN 1			RUN 43			RUN 44			RUN 99	
75P22 CABLE	COMMUNICATION DATA	1			1			1				
6P22 CABLE	CONTROLLER DATA				1			2				
72SMFO	DATA/VIDEO NODE TO HUB		1			1			1			
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1			1			1			
	INNERDUCT		1 1/4"	1 1/4"		1 1/4"	1 1/4"		1 1/4"	1 1/4"		
	CONDUIT SIZE		4"			4"			4"			4"



PROJECT NOTES: (THIS SHEET ONLY)

15 SPLICE ONTO 72SMFO AND 75P22 CABLES FOR CONTINUATION OF TWISTED PAIR AND FIBER OPTIC CONNECTION TO PREVIOUS CONTRACT. SEE SHEET E-56 FOR SPLICE DETAILS AND PROCEDURES.

16 TERMINATE 12SMFO CABLE IN SPLICE VAULT. SPLICE 2SMFO B/O CABLE FROM CAMERA ONTO 12SMFO CABLE.

~~17 EXISTING 2"C. REMOVE EXISTING LOOP CONDUCTORS. INSTALL NEW LOOP CONDUCTORS.~~

~~18 EXISTING 2"C. REMOVE EXISTING LOOP CONDUCTORS. INSTALL NEW LOOP CONDUCTORS AND 1 DLC.~~

~~19 REMOVE MAINLINE DLC. ADD 10 DLC.~~

AS-BUILT
Contract No: 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM ROUTING AND MODIFY RAMP METERING SYSTEM (LOCATIONS 0049 & 0372)

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

SCALE: 1" = 100'

E-19

CALCULATED/ DESIGNED BY	DP	7/94
CHECKED BY	RL	7/94

REVISED BY	DATE REVISED

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u1913130243

CU 07396

EA 120821

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	77	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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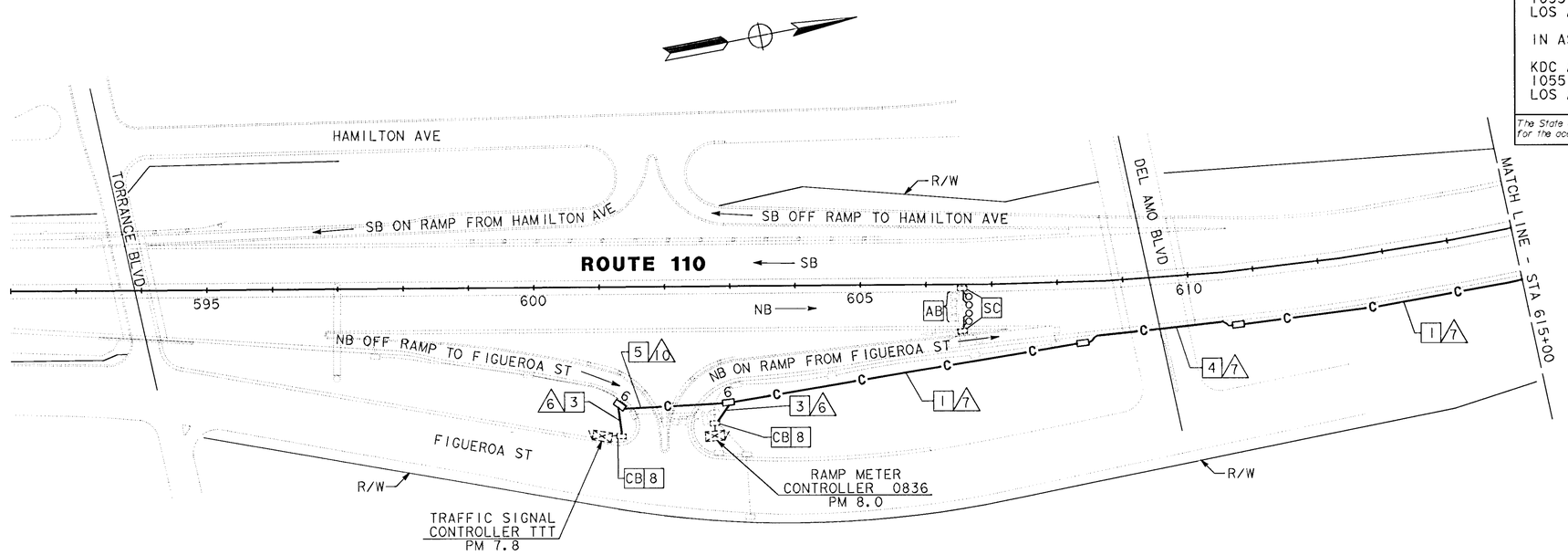
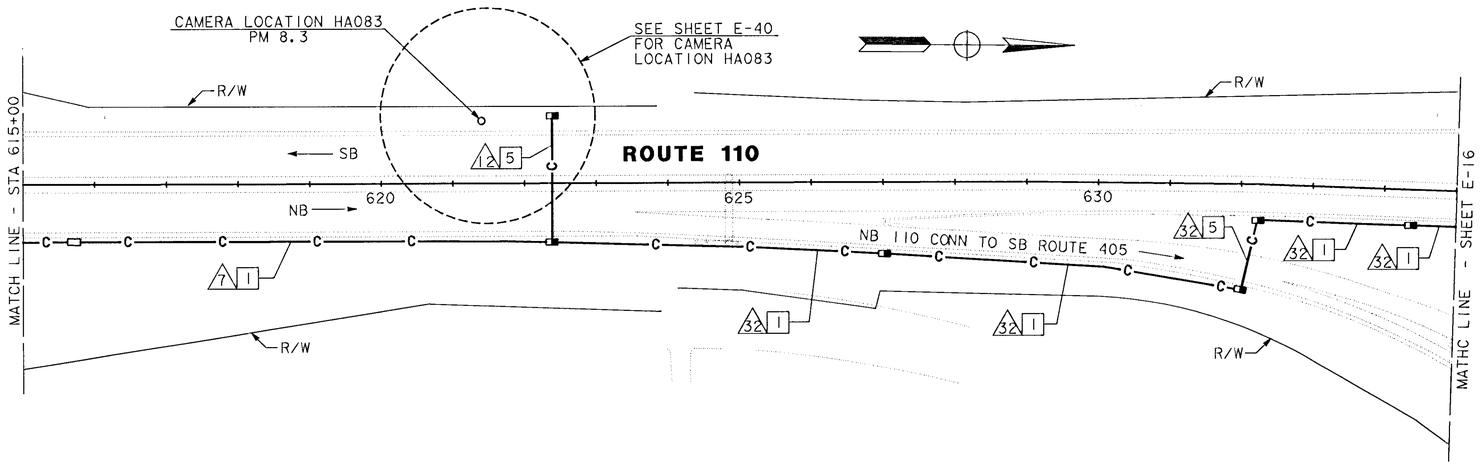
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 6	RUN 7	RUN 10	RUN 12	RUN 32
6P22 CABLE	CONTROLLER DATA	1	2	1	1	3
2SMFO B/O	CCTV CAMERA TO VIDEO DISTRIBUTION				1	1
	CONDUIT SIZE	2"	2"	4"	4"	4"





AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV AND COMMUNICATION SYSTEM
ROUTING AND MODIFY RAMP METERING SYSTEM
(LOCATION 0836)

SCALE: 1" = 100'

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

E-20

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DRAWN BY	CHECKED BY	DATE	REVISED BY
PAT SULLIVAN	DP	RL		7/94	DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 09-15-95
DATE PLOTTED => 21-Dec-1996
TIME PLOTTED => 08:56

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
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DGN FILE => [ESC-OE]712082u20.psf
CU 07396
EA 120821

USERID: HHuynh@T2NT6044 FILE: f:\projects\120821_ug\ab\712082u21.dgn DATE: Fri Apr 13 2001 TIME: 13:04

NOTES: (THIS SHEET ONLY)

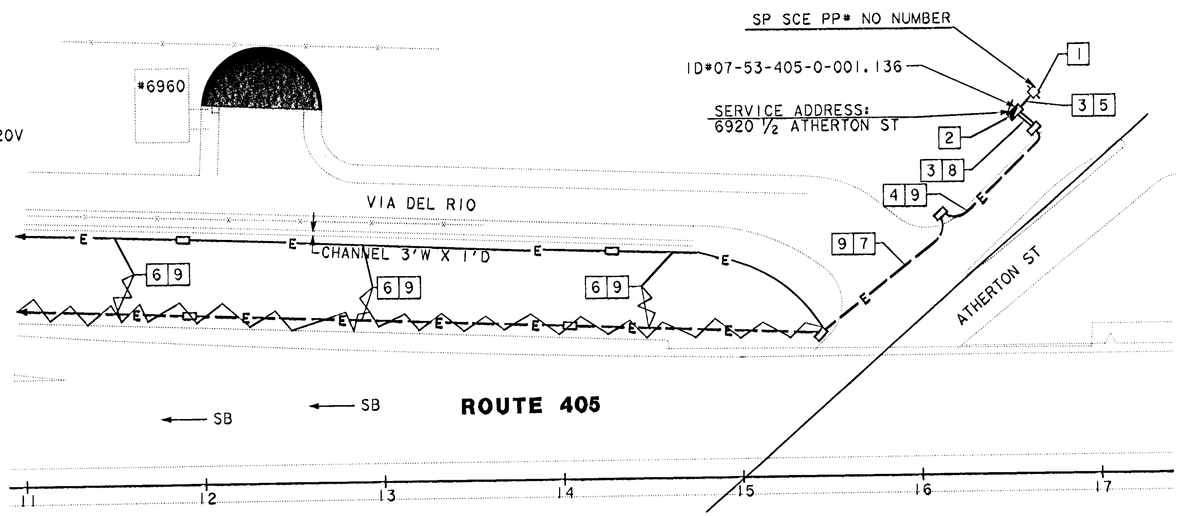
1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, (METERED), TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER, 30A, 120V, IP CIRCUIT BREAKER FOR CCTV CAMERA, 30A, 120V, IP CIRCUIT BREAKER FOR DATA NODE, 30A, 120V, IP CIRCUIT BREAKER FOR TRAFFIC MONITORING STATION, AND 30A, 120V IP CIRCUIT BREAKER FOR H A R.
3. TRENCH CONDUIT IN CONCRETE.
4. TRENCH CONDUIT IN ASPHALT.
5. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
6. TRENCH CONDUIT IN SOIL.
7. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
8. INSTALL 2"C, 6#4 AND 2"C (EMPTY).
9. INSTALL 2"C, 6#4.
10. INSTALL 1½"C, 4#4.
11. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
12. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
13. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-61 AND E-62.
14. INSTALL TYPE 334 CABINET, DATA NODE CABINET TO INCLUDE VIDEO TRANSMITTER, CAMERA CONTROL RECEIVER AND ONE D-4 CHANNEL BANK. SEE SHEET E-59, DETAIL C.
15. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
16. SEE SHEET L-1 FOR LAYOUT DETAILS.
17. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.
18. INSTALL 1 ½'C, 2#4
19. INSTALLATION OF ELECTRICAL CONDUCTORS, CIRCUIT BREAKER, 18, AND NUMBER 6 PULL BOX FOR TRAFFIC MONITORING STATION SHALL BE BID AS PART OF TRAFFIC MONITORING STATION.
20. CONNECT 6P22 CABLE TO NEW TRAFFIC MONITORING STATION CONTROLLER, CONNECTION TO BE BID AS PART OF TMS.
21. INSTALL 2"C, 4#4.

DATE	REVISED BY
11/93	DP
7/94	CF
DATE REVISED	CALCULATED/ DESIGNED BY
	CHECKED BY

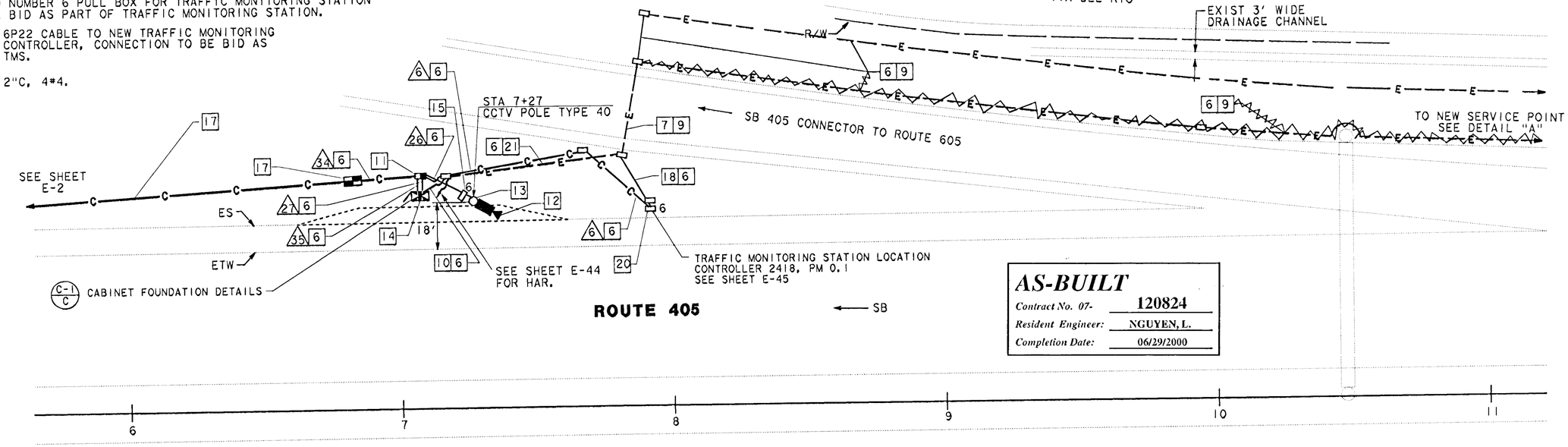
DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans



DETAIL "A"
SCALE 1"=40'



CONDUCTOR SCHEDULE												
CONDUCTOR TYPE	FUNCTION	RUN 26	27	34			35			6	
75P22 CABLE	COMMUNICATION DATA			1			1				
2SMFO CABLE	NODE CONTROL					4			1		
6P22 CABLE	CONTROLLER DATA			3			1			1	
2SMFO B/O CABLE	SHORT HAUL VIDEO				1			1			
SEE TABLE 1, SHEET E-1	CCTV WIRING	1	1								
	INNERDUCT			1¼"	1¼"	1¼"	1¼"	1¼"	1¼"		
	CONDUIT SIZE	2"	4"	4"			4"			2"	

CAMERA LOCATION SD001, PM 0.1
DATA NODE SD001
SCALE: 1"=20'

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

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

CCTV CAMERA AND EQUIPMENT AT DATA NODE (LOCATION SD001)

SCALE AS NOTED

E-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	78	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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LAST REVISION DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u2113130201

CU 07396

EA 120821

USERID: HHuynh@T2NT6044 FILE: f:\projects\120821_ug\ab\712082u21.dgn DATE: Fri Apr 13 2001 TIME: 13:04

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u22.dgn DATE: Fri Apr 13 2001 TIME: 13:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	79	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

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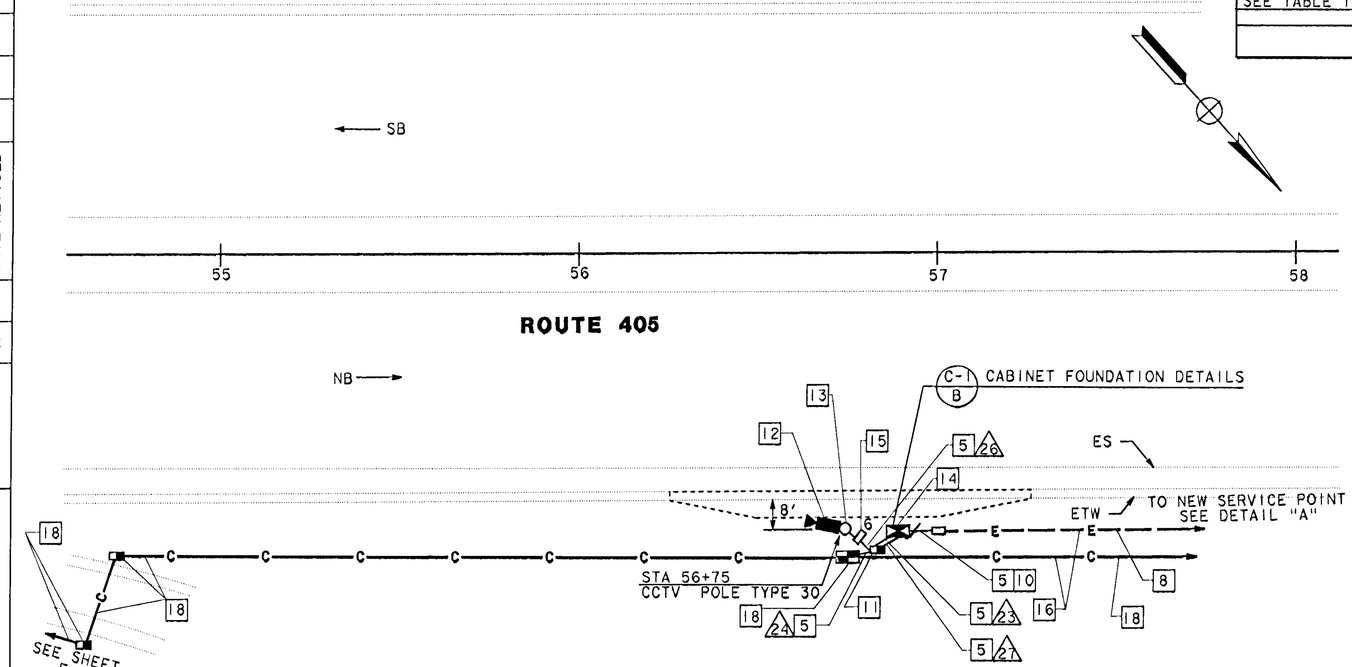
DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

CONDUCTOR SCHEDULE					
CONDUCTOR TYPE	FUNCTION	RUN 23	RUN 24	RUN 26	RUN 27
6P22 CABLE	CONTROLLER DATA	1	1		
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1		
SEE TABLE 1, SHEET E-1	CCTV WIRING			1	1
	CONDUIT SIZE	4"	2"	2"	4"



CAMERA LOCATION SD010, PM 1.0

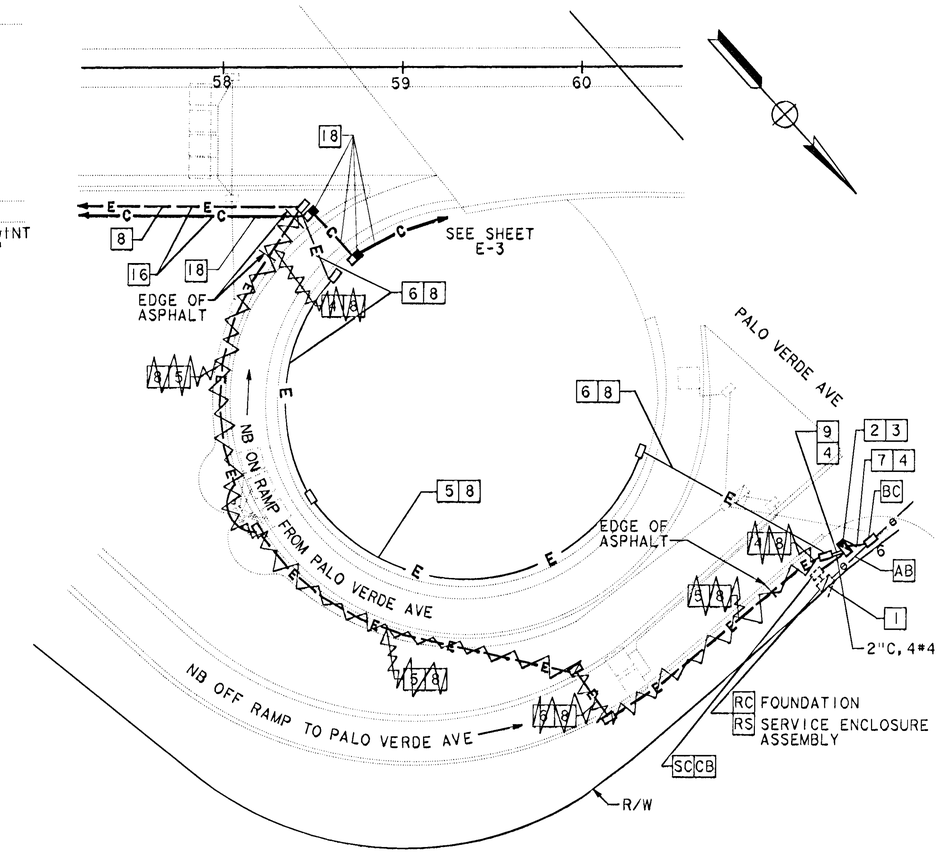
SCALE: 1"=20'

NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING 120/240V, 3 WIRE, UNMETERED SERVICE EQUIPMENT ENCLOSURE. CONTRACTOR SHALL CONTACT CALTRANS ENGINEER IN ADVANCE OF REMOVING EXISTING SERVICE EQUIPMENT ENCLOSURE AND CONTACT SCE 48 HOURS IN ADVANCE TO TURN OFF POWER FROM POWER POLE, PP#981062E.
2. INSTALL 120/240V, 3 WIRE, METERED TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH METERED AND UNMETERED CIRCUITS, 100A, 240V, 4P MAIN CIRCUIT BREAKER, (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA, AND (2) UNMETERED 20A, 120V, 1P CIRCUIT BREAKER FOR EXISTING LOAD.
3. CONNECT EXISTING LOAD TO UNMETERED CIRCUITS IN NEW SERVICE EQUIPMENT ENCLOSURE.
4. TRENCH CONDUIT IN ASPHALT.
5. TRENCH CONDUIT IN SOIL.
6. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
7. INSTALL 3"C, (CONDUCTORS BY OTHERS).
8. INSTALL 2"C, 2#4.
9. INSTALL 2"C, 2#4 AND 2"C (EMPTY).
10. INSTALL 1½", 2#4.
11. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
12. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
13. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
14. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
15. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
16. INSTALL CONDUITS IN THE SAME TRENCH.
17. SEE SHEET L-2 FOR LAYOUT DETAILS.
18. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

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



DETAIL "A"

SCALE: 1" = 40'

CCTV CAMERA (LOCATION SD010)

SCALE AS NOTED

E-22

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DP	DATE 11/93	REVISED BY
PAT SULLIVAN	CHECKED BY	CF	7/94	DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

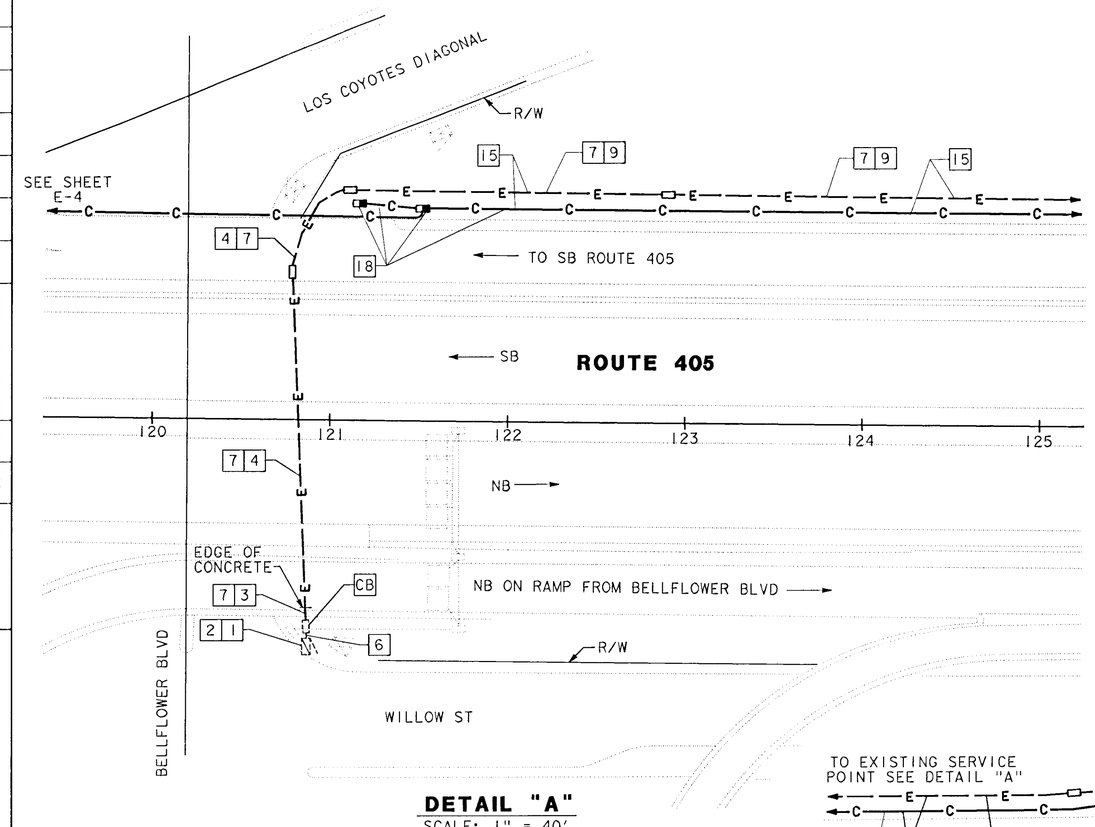
712082u2213130120 13-Apr-2001 HHuynh

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07396 EA 120821

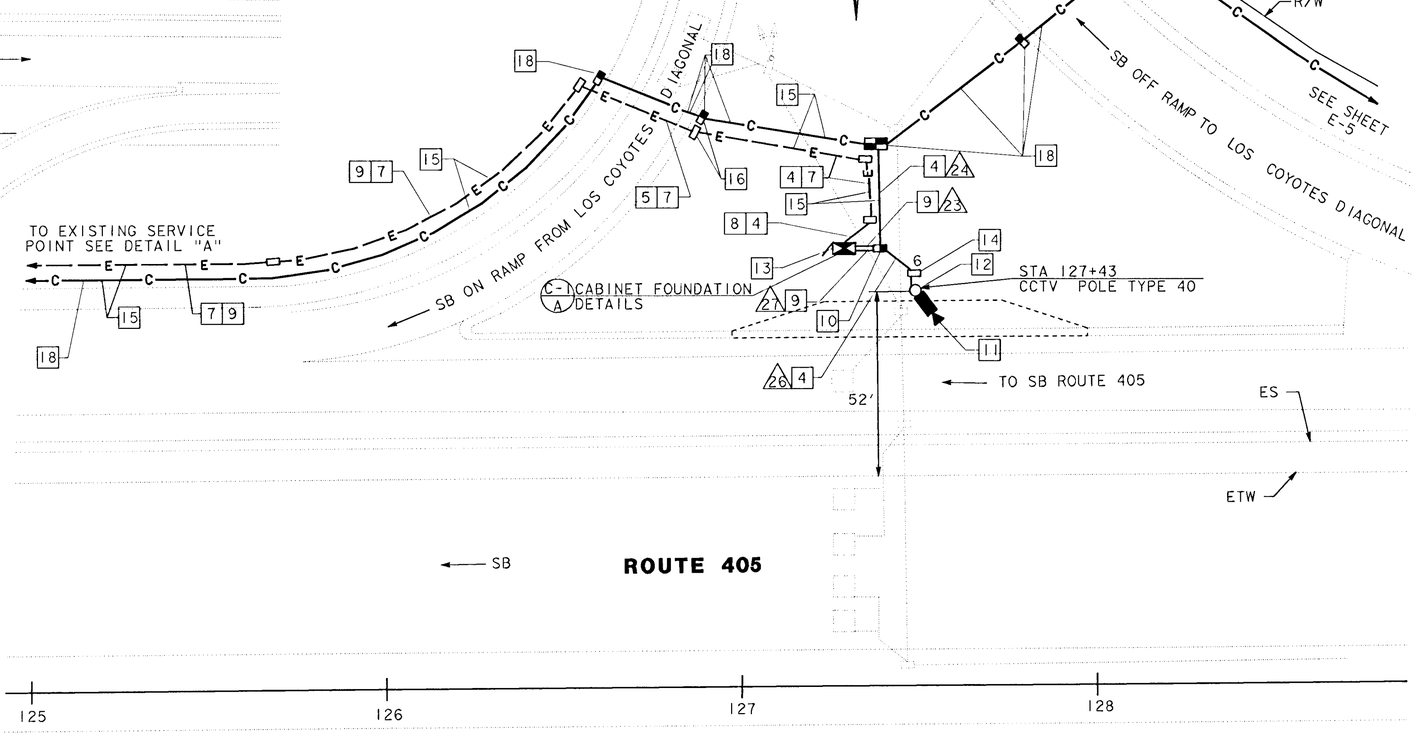
LAST REVISION 10-12-01

FORM DC-OE-92-PF (REV. 3/88)
USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u22.dgn DATE: Fri Apr 13 2001 TIME: 13:03



DETAIL "A"

SCALE: 1" = 40'



CAMERA LOCATION SD024, PM 2.4

SCALE: 1" = 20'

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE: PP#1282196E, ID#07-53-405-0-002.810.
2. ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN CONCRETE.
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. ADD 2#4 IN EXISTING CONDUIT.
7. INSTALL 2"C, 2#4.
8. INSTALL 1½"C, 2#4.
9. TRENCH CONDUIT IN ASPHALT.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT. SET PAN STOP AT 130°, SEE SHEET E-64.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-61 AND E-62.
13. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
14. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
15. INSTALL CONDUITS IN THE SAME TRENCH.
16. USE THE SAME PIT FOR JACKING CONDUITS.
17. SEE SHEET L-3 FOR LAYOUT DETAILS.
18. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

CONDUCTOR SCHEDULE					
CONDUCTOR TYPE	FUNCTION	RUN 23	RUN 24	RUN 26	RUN 27
6P22 CABLE	CONTROLLER DATA	1	1		
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1		
SEE TABLE 1, SHEET E-1	CCTV WIRING			1	1
	CONDUIT SIZE	4"	2"	2"	4"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	80	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — 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.

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

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

CCTV CAMERA (LOCATION SD024)

SCALE AS NOTED

E-23

DATE	REVISED BY
11/93	DP
7/94	CF

DESIGNED BY: CALCULATED/
CHECKED BY
DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

[ESC-OE]712082u23.psf 21-Dec-1996 trmlkesl

LAST REVISION 09-18-95
DATE PLOTTED => 21-Dec-1996
TIME PLOTTED => 08:46

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trmlkesl
DGN FILE => [ESC-OE]712082u23.psf

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u24.dgn DATE: Fri Apr 13 2001 TIME: 13:01

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,110,405	Var	81	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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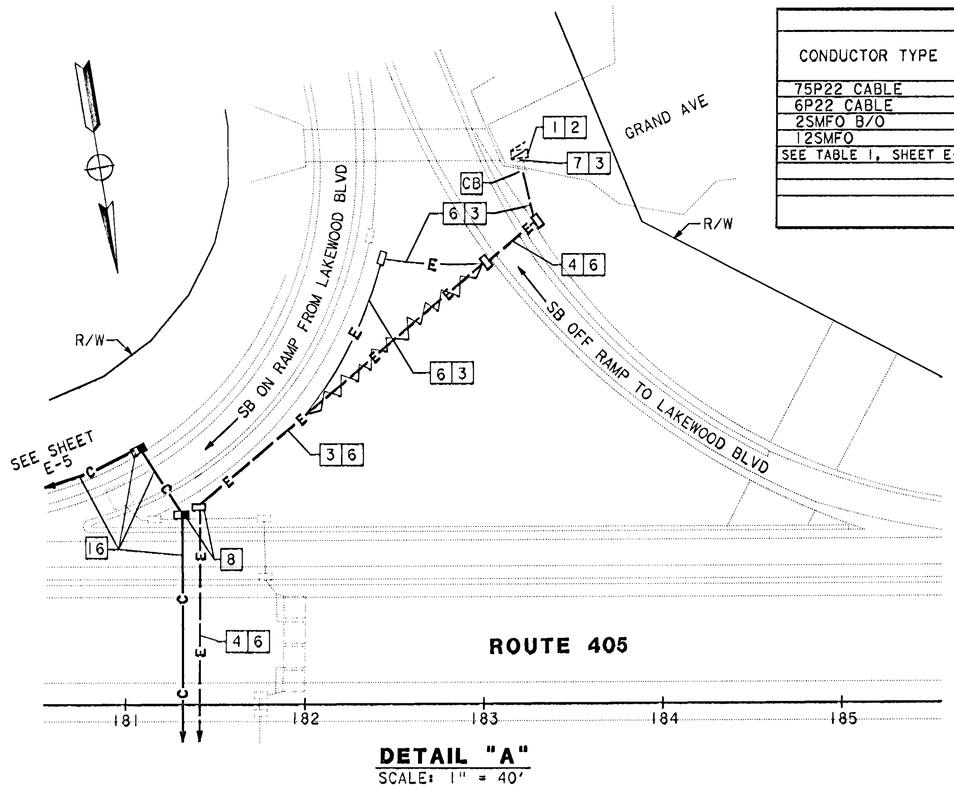
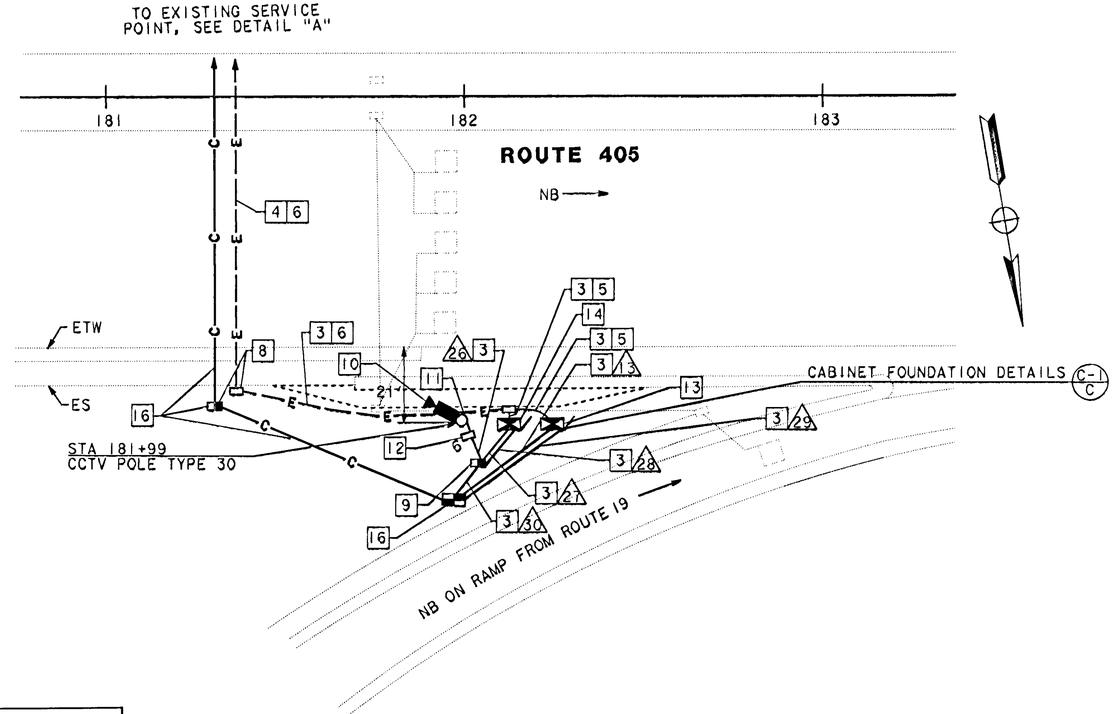
CONDUCTOR SCHEDULE													
CONDUCTOR TYPE	FUNCTION	RUN 13		26	21	28		29		30			
75P22 CABLE	COMMUNICATION DATA							2					
6P22 CABLE	CONTROLLER DATA					1		1			1		
2SMFO B/O	NODE CONTROL						1			1			1
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION					2					2		
SEE TABLE 1, SHEET E-1	CCTV WIRING			1	1								
	INNERDUCT					1¼"	1¼"	1¼"	1¼"		1¼"	1¼"	
	CONDUIT SIZE	4"		2"	4"	4"		4"			4"		



DETAIL "A"
SCALE: 1" = 40'

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE: PP #1638179E, ID#07-53-405-0-003.623
2. ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR VIDEO NODE AND 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR DATA NODE IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN SOIL.
4. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
5. INSTALL 1½"C, 2#6.
6. INSTALL 2"C, 4#6
7. ADD 4#6 IN EXISTING CONDUIT.
8. USE THE SAME PIT FOR JACKING CONDUITS.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-61 AND E-62.
12. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
13. INSTALL TYPE 334 CABINET. DATA NODE CABINET TO INCLUDE TWO D4 CHANNEL BANKS. SEE SHEET E-59, DETAIL B.
14. INSTALL TYPE 334 CABINET. VIDEO NODE CABINET TO INCLUDE 16 CHANNEL VIDEO MULTIPLEXER, 7 VIDEO RECEIVERS AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL B.
15. SEE SHEET L-4 FOR LAYOUT DETAILS.
16. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.



CAMERA LOCATION SD034, PM 3.4
VIDEO/DATA NODE 1
SCALE: 1"=20'

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV CAMERA, EQUIPMENT AT DATA NODE AND EQUIPMENT AT VIDEO NODE (LOCATION SD034)

SCALE AS NOTED

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

E-24

CALCULATED/ DESIGNED BY	DP	CF
CHECKED BY		
DATE	11/93	7/94
REVISED BY		
DATE REVISED		

DESIGN OVERSIGHT — PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION — DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u2413125953

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u24.dgn DATE: Fri Apr 13 2001 TIME: 13:01

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	82	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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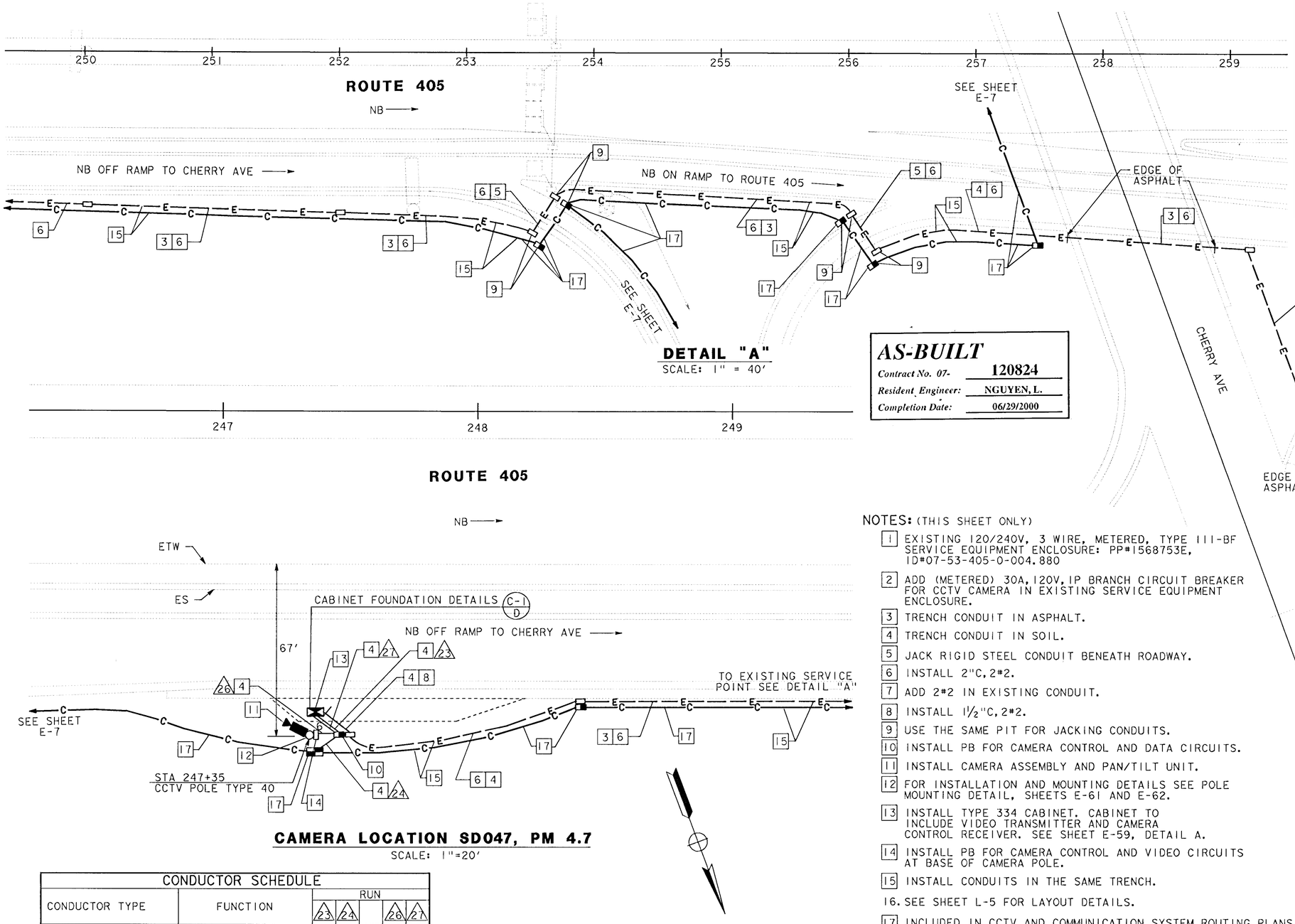

AS-BUILT

Contract No. 07-	120824
Resident Engineer:	NGUYEN, L.
Completion Date:	06/29/2000

CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN					
		23	24		20	21	
6P22 CABLE	CONTROLLER DATA	1	1				
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1				
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1	
	CONDUIT SIZE	4"	2"		2"	4"	

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE: PP#1568753E, ID#07-53-405-0-004.880
2. ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN ASPHALT.
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. INSTALL 2"C, 2#2.
7. ADD 2#2 IN EXISTING CONDUIT.
8. INSTALL 1½"C, 2#2.
9. USE THE SAME PIT FOR JACKING CONDUITS.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
13. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
14. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
15. INSTALL CONDUITS IN THE SAME TRENCH.
16. SEE SHEET L-5 FOR LAYOUT DETAILS.
17. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

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

CCTV CAMERA (LOCATION SD047)

SCALE AS NOTED

E-25

DATE	REVISED BY
11/93	DP
7/94	CF

DATE REVISED
CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 20-Dec-1996
TIME PLOTTED => 13:17

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trienard
DGN FILE => [ESC-OE]7I2082u25.psf

CU 07396

EA 120821

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u26.dgn DATE: Fri Apr 13 2001 TIME: 13:31

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	83	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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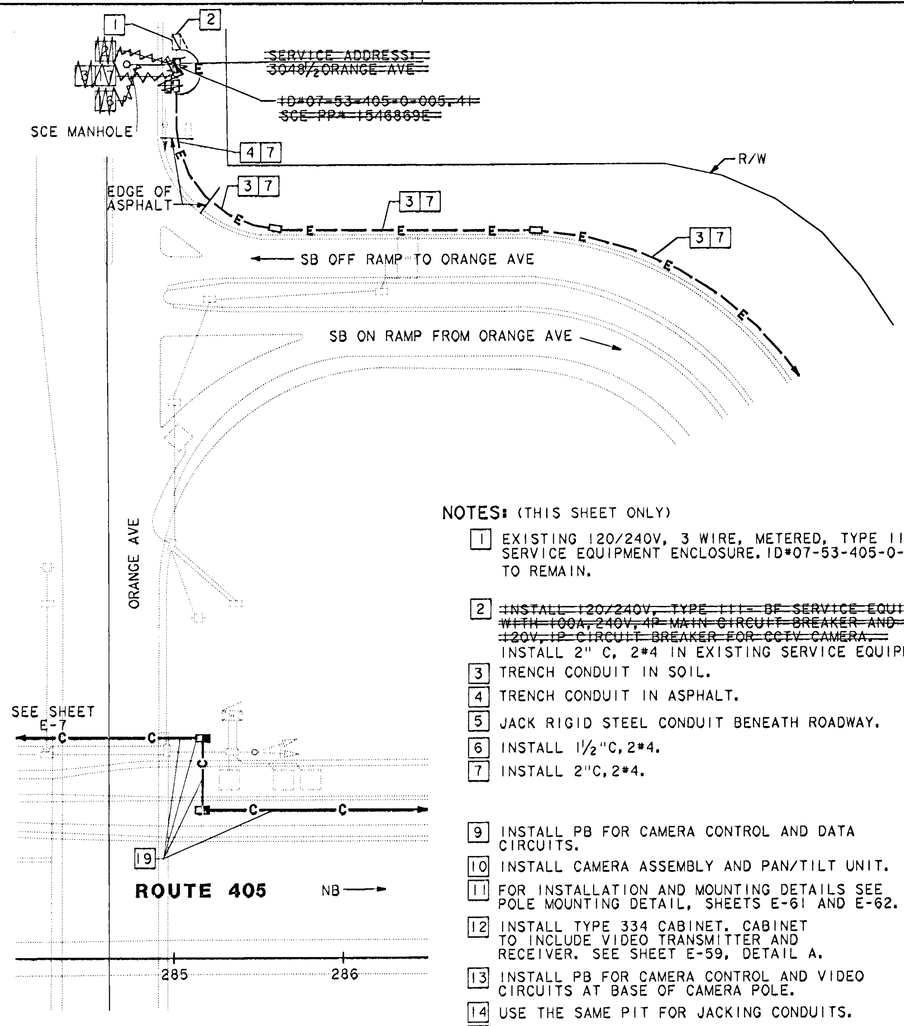
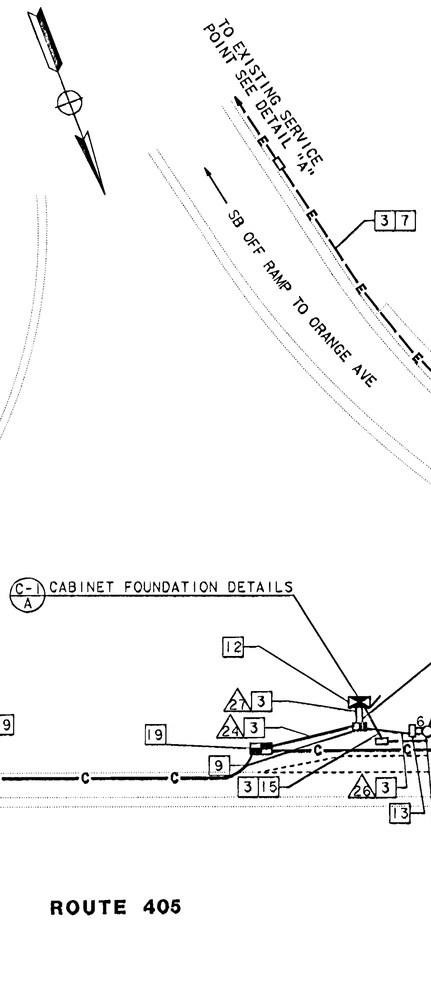
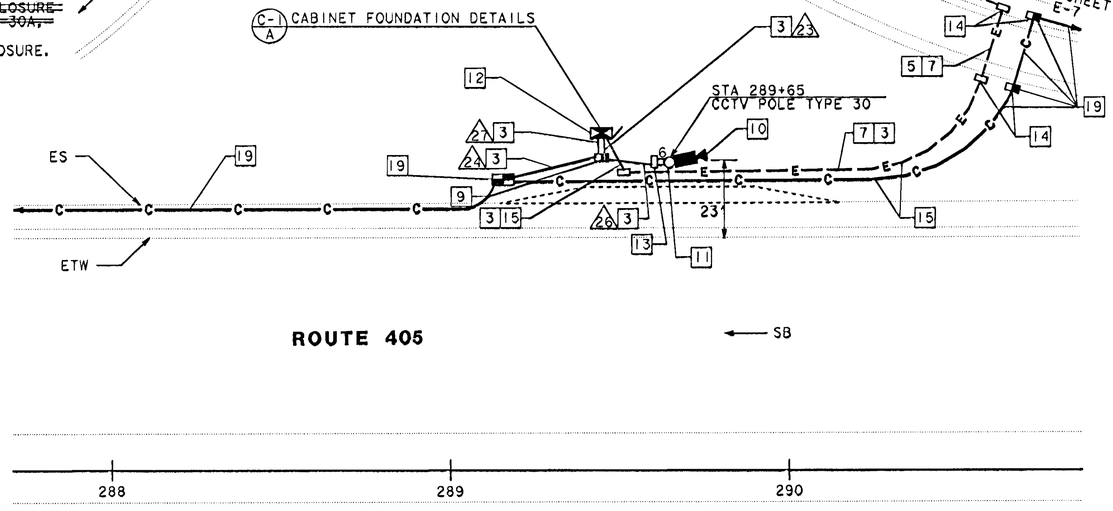


DETAIL "A"
SCALE: 1" = 40'





CAMERA LOCATION SD055, PM 5.5
SCALE: 1"=20'

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III- BF SERVICE EQUIPMENT ENCLOSURE. ID#07-53-405-0-005.390. TO REMAIN.
2. ~~INSTALL 120/240V, TYPE III- BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA.~~ INSTALL 2" C, 2#4 IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN SOIL.
4. TRENCH CONDUIT IN ASPHALT.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. INSTALL 1½"C, 2#4.
7. INSTALL 2"C, 2#4.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
12. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND RECEIVER. SEE SHEET E-59, DETAIL A.
13. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
14. USE THE SAME PIT FOR JACKING CONDUITS.
15. INSTALL CONDUITS IN THE SAME TRENCH.
16. INSTALL 3"C, MT(CONDUCTORS BY OTHERS).
17. INSTALL 2"C, 2#4 AND 2"C(EMPTY).
19. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN					
		23	24		26	27	
6P22 CABLE	CONTROLLER DATA	1	1				
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1				
SEE TABLE 1, SHEET E-1	CCTV WIRING	1			1	1	1
	CONDUIT SIZE	4"	2"		2"	4"	

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

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

CCTV CAMERA (LOCATION SD055)

SCALE AS NOTED

E-26

DESIGN OVERSIGHT: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
13-Apr-2001 HHuynh

DATE	REVISED BY	CALCULATED/ DESIGNED BY	CHECKED BY
11/93	DP		
7/94	CF		
DATE REVISED			

LAST REVISION 00-00-00 DATE PLOTTED => 13-Apr-2001 TIME PLOTTED => 13:31

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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DGN FILE => 712082u2613133051

CU 07396 EA 120821

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u26.dgn DATE: Fri Apr 13 2001 TIME: 13:31

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	84	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

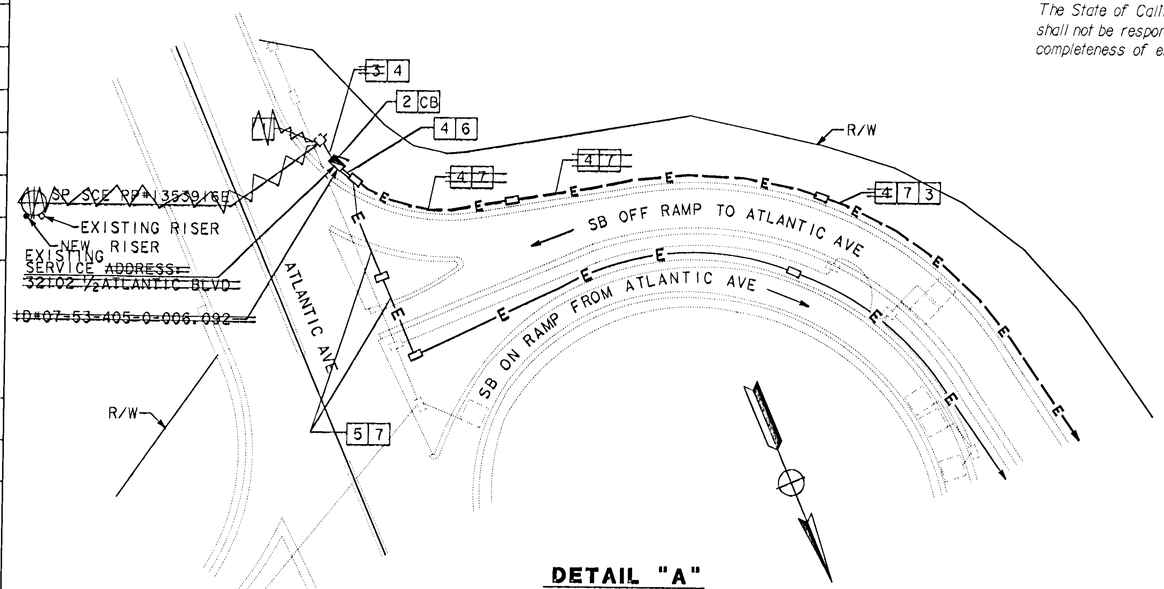
REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

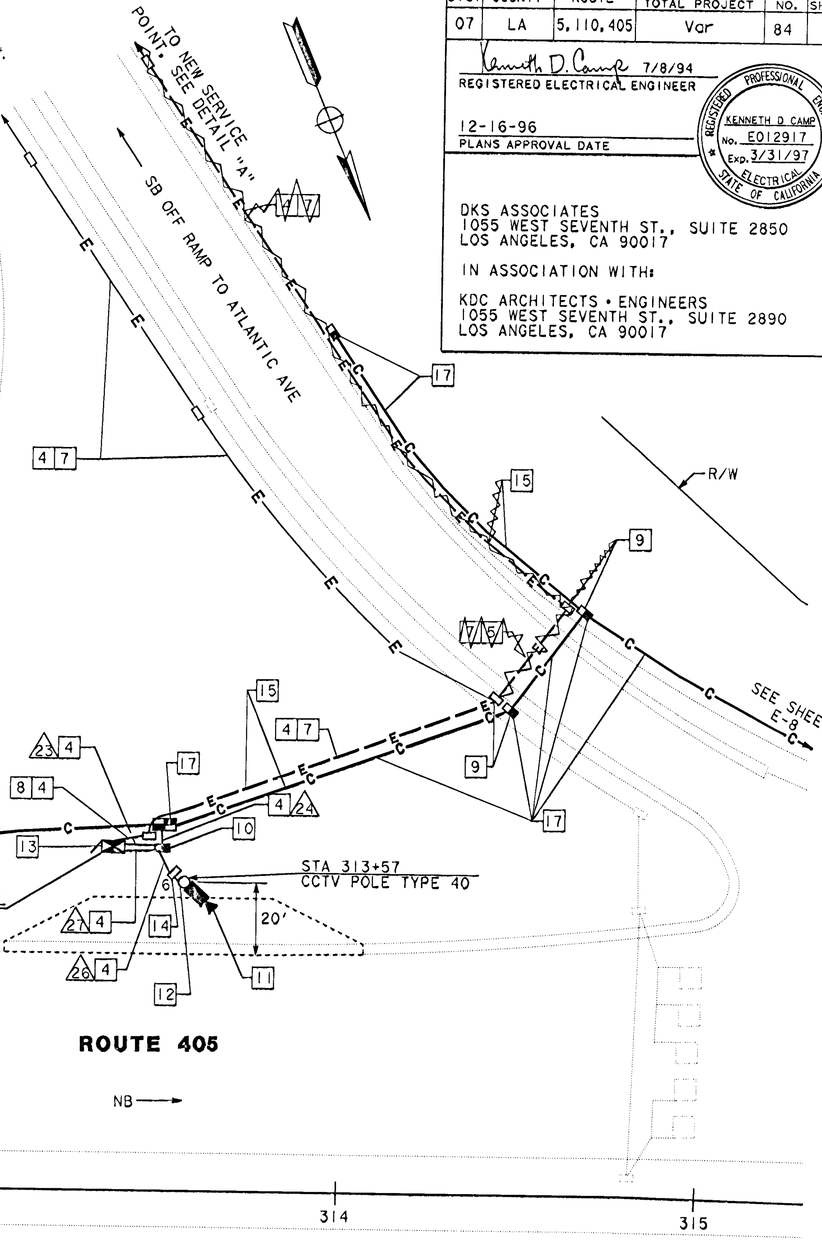
DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017



DETAIL "A"
SCALE: 1" = 40'



NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
2. INSTALL ~~120/240V, 3-WIRE, METERED, TYPE III-8F SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND~~ 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA. IN EXISTING CABINET
3. ~~INSTALL 3"C, MI (CONDUCTORS BY OTHERS).~~
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. INSTALL 2"C, 2#4 AND 2"C(EMPTY).
7. INSTALL 2"C, 2#4.
8. INSTALL 1½"C, 2#4.
9. USE THE SAME PIT FOR JACKING CONDUITS.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
13. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
14. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
15. INSTALL CONDUITS IN THE SAME TRENCH.
16. SEE SHEET L-7 FOR LAYOUT DETAILS.
17. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

3. ITRENCH AND INSTALL CONDUIT IN ASPHALT.

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN				
		23	24		26	27
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1
	CONDUIT SIZE	4"	2"		2"	4"

CAMERA LOCATION SD061, PM 6.1
SCALE: 1"=20'

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

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV CAMERA (LOCATION SD061)

SCALE AS NOTED

E-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN OVERSIGHT: PAT SULLIVAN
CALCULATED/DESIGNED BY
CHECKED BY: DP 11/93 — CF 7/94
REVISED BY — DATE REVISED
LAST REVISION — DATE PLOTTED => 13-Apr-2001

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	85	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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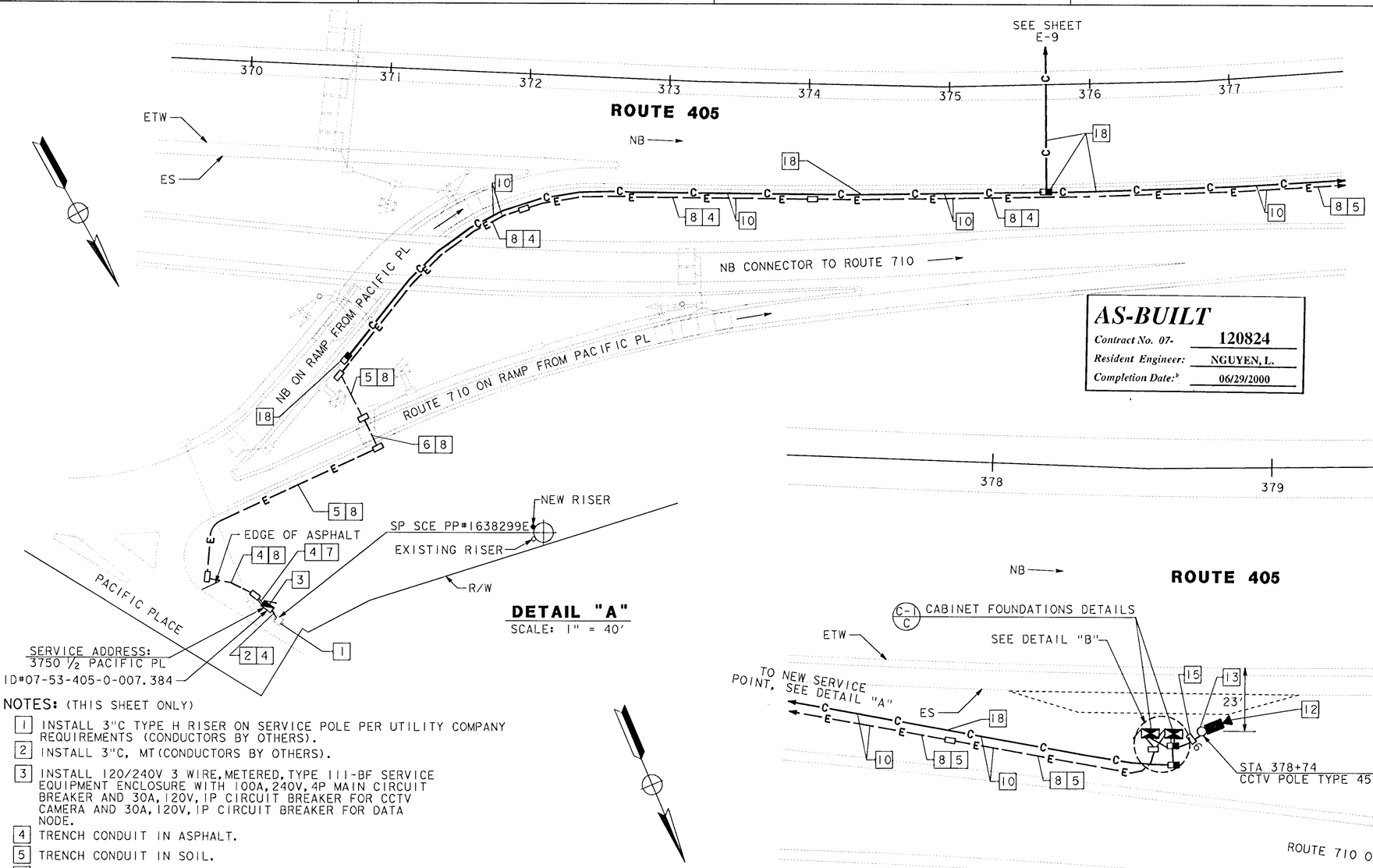
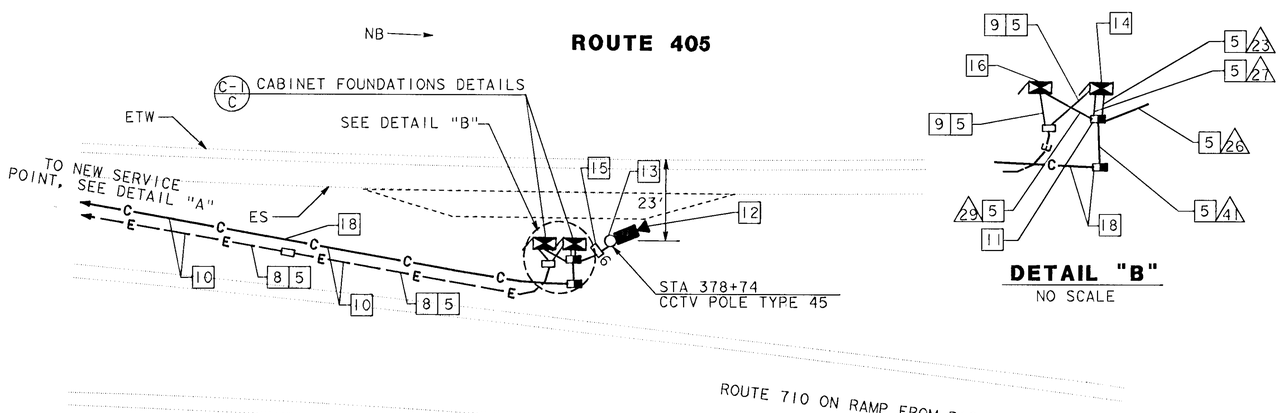
AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000



DETAIL "A"
SCALE: 1" = 40'



DETAIL "B"
NO SCALE

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
2. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
3. INSTALL 120/240V 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA AND 30A, 120V, 1P CIRCUIT BREAKER FOR DATA NODE.
4. TRENCH CONDUIT IN ASPHALT.
5. TRENCH CONDUIT IN SOIL.
6. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
7. INSTALL 2"C, 4#2 AND 2"C (EMPTY).
8. INSTALL 2"C, 4#2.
9. INSTALL 1½"C, 2#2.
10. INSTALL CONDUITS IN THE SAME TRENCH.
11. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
12. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
13. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
14. INSTALL 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL C.
15. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
16. INSTALL STATE-FURNISHED TYPE 334 CABINET. DATA NODE CABINET TO INCLUDE TWO D4 CHANNEL BANKS. SEE SHEET E-59, DETAIL C.
17. SEE SHEET L-8 FOR LAYOUT DETAILS.
18. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 23			26	21	29			4		
75P22 CABLE	COMMUNICATION DATA						2			2		
6P22 CABLE	CONTROLLER DATA	1					1					
2SMFO B/O CABLE	SHORT HAUL VIDEO	1									1	
2SMFO B/O CABLE	NODE CONTROL								4			4
SEE TBL 1, SHT E-1	CCTV WIRING				1	1						
	INNERDUCT							1¼"	1¼"		1¼"	1¼"
	CONDUIT SIZE	4"			2"	4"	4"			4"		

CAMERA LOCATION SD074, PM 7.4
DATA NODE SD074
SCALE: 1"=20'

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

CCTV CAMERA AND EQUIPMENT AT DATA NODE (LOCATION SD074)

SCALE AS NOTED

E-28

DATE	REVISED BY
11/93	DP
7/94	CF

DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 27-Dec-1996
TIME PLOTTED => 06:10

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => trlenard
DGN FILE => [ESC-OE]712082u28.psf
CU 07396
EA 120821

NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING 120/240V, UNMETERED SERVICE EQUIPMENT ENCLOSURE PP#1242773E, ID#07-53-710-0-009.469 CONTRACTOR SHALL CONTACT CALTRANS ENGINEER IN ADVANCE BEFORE REMOVING EXISTING SERVICE EQUIPMENT ENCLOSURE AND CONTACT SCE 48 HOURS IN ADVANCE TO TURN OFF POWER FROM POWER POLE.
2. INSTALL 120/240V, 3 WIRE, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH METERED AND UNMETERED CIRCUITS, 100A, 240V, 4P MAIN CIRCUIT BREAKER AND (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA AND (UNMETERED) 20A, 240V, 2P CIRCUIT BREAKER FOR EXISTING LIGHTS AND (UNMETERED) 15A, 120V, 1P CIRCUIT BREAKER FOR EXISTING LIGHT CONTROL.
3. CONNECT EXISTING LOAD TO UNMETERED CIRCUITS IN NEW SERVICE EQUIPMENT ENCLOSURE.
4. TRENCH CONDUIT IN SOIL.
5. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
6. INSTALL 2"C, 2#8 AND 2"C (EMPTY).
7. INSTALL 2"C, 2#8.
8. INSTALL 1½"C, 2#8.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
12. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
13. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
14. SEE SHEET L-9 FOR LAYOUT DETAILS.
15. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	86	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

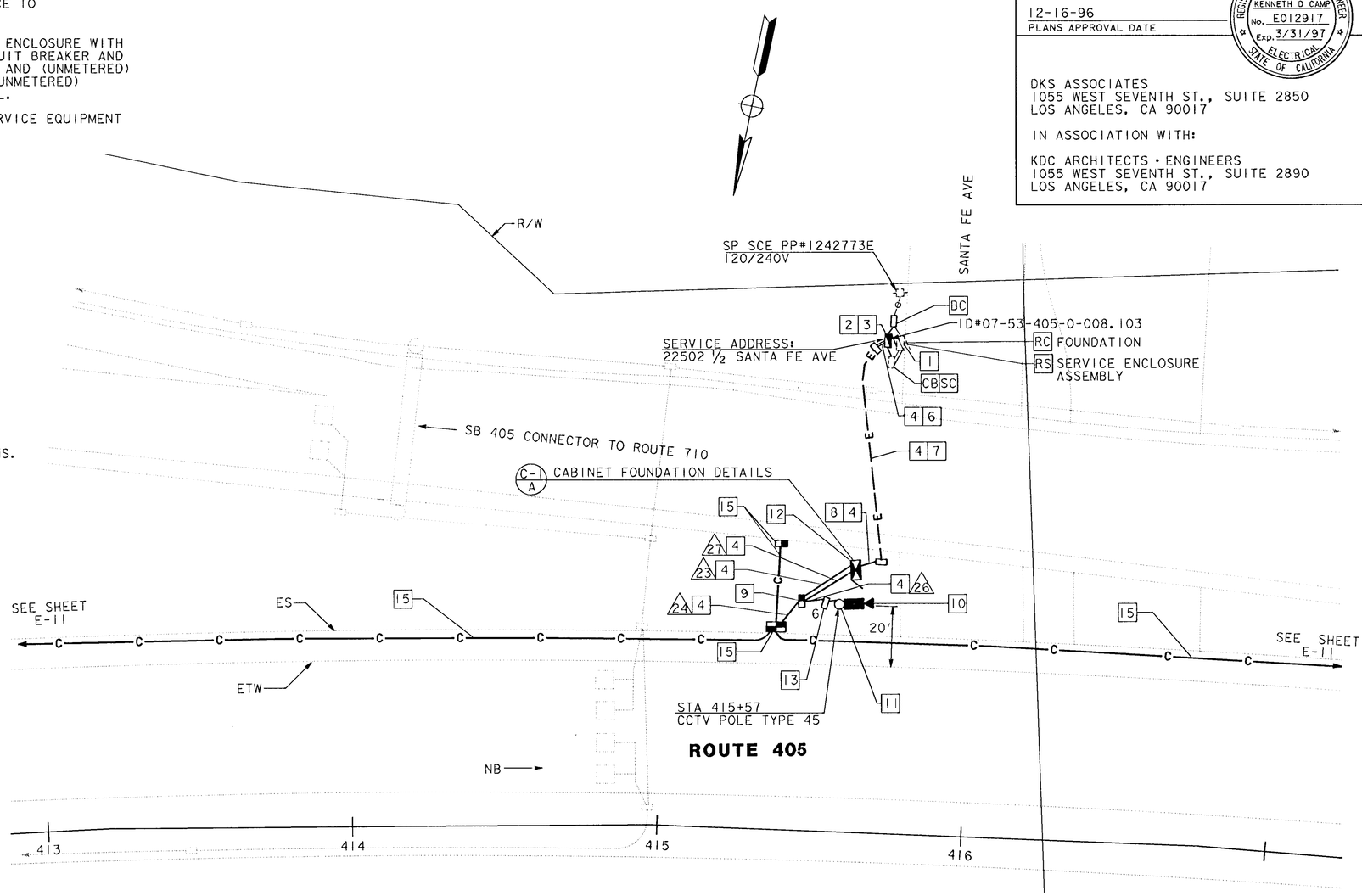
12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017



CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN					
		23	24		26	27	
6P22 CABLE	CONTROLLER DATA	1	1				
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1				
SEE TBL 1, SHT E-1	CCTV WIRING				1	1	
	CONDUIT SIZE	4"	2"		2"	4"	

CAMERA LOCATION SD081, PM 8.1

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
*Completion Date:** 06/29/2000

CCTV CAMERA (LOCATION SD081)

SCALE: 1" = 20'

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

E-29

DATE	REVISED BY
11/93	DP
7/94	CF

DATE REVISED | CALCULATED/DESIGNED BY | CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 20-Dec-1996 | TIME PLOTTED => 13:18

FORM DC-OE-92-PF (REV. 3/88)

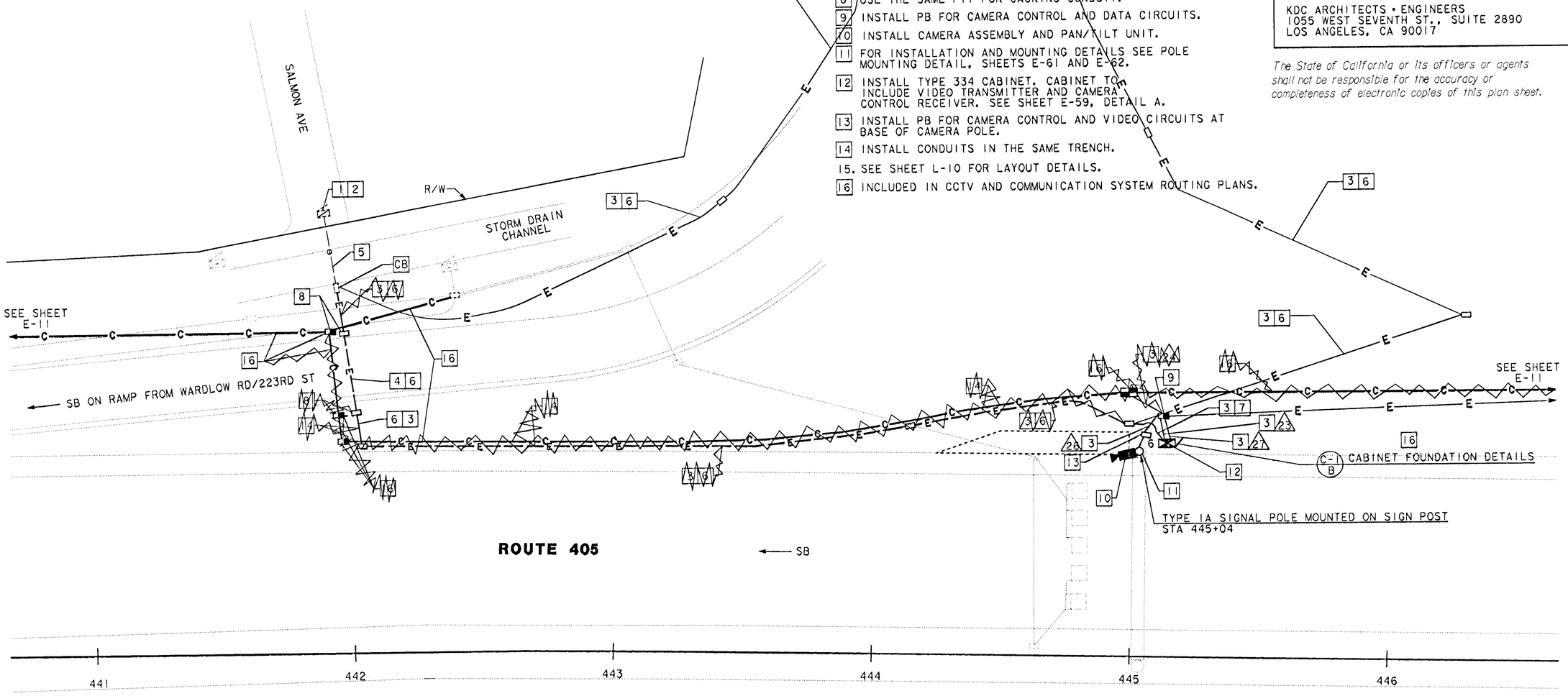
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trienard
DGN FILE => [ESC-OE]712082u29.psf

CU 07396

EA 120821

CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN					
		23	24		26	27	
6P22 CABLE	CONTROLLER DATA	1	1				
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1				
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1	
	CONDUIT SIZE	4"	2"		2"	4"	



CAMERA LOCATION SD086, PM 8.6

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE: PP#A082700E.
2. ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN SOIL.
4. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
5. ADD 2#6 IN EXISTING CONDUIT.
6. INSTALL 2"C, 2#6.
7. INSTALL 1½"C, 2#6.
8. USE THE SAME PIT FOR JACKING CONDUIT.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
12. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
13. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
14. INSTALL CONDUITS IN THE SAME TRENCH.
15. SEE SHEET L-10 FOR LAYOUT DETAILS.
16. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	87	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — EXP. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

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

CCTV CAMERA (LOCATION SD086)

SCALE: 1" = 20'

E-30

DATE	REVISED BY
11/93	DP
7/94	CF
DATE REVISED	CALCULATED/ DESIGNED BY
	CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u3013125712

CU 07396

EA 120821

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,110,405	Var	88	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

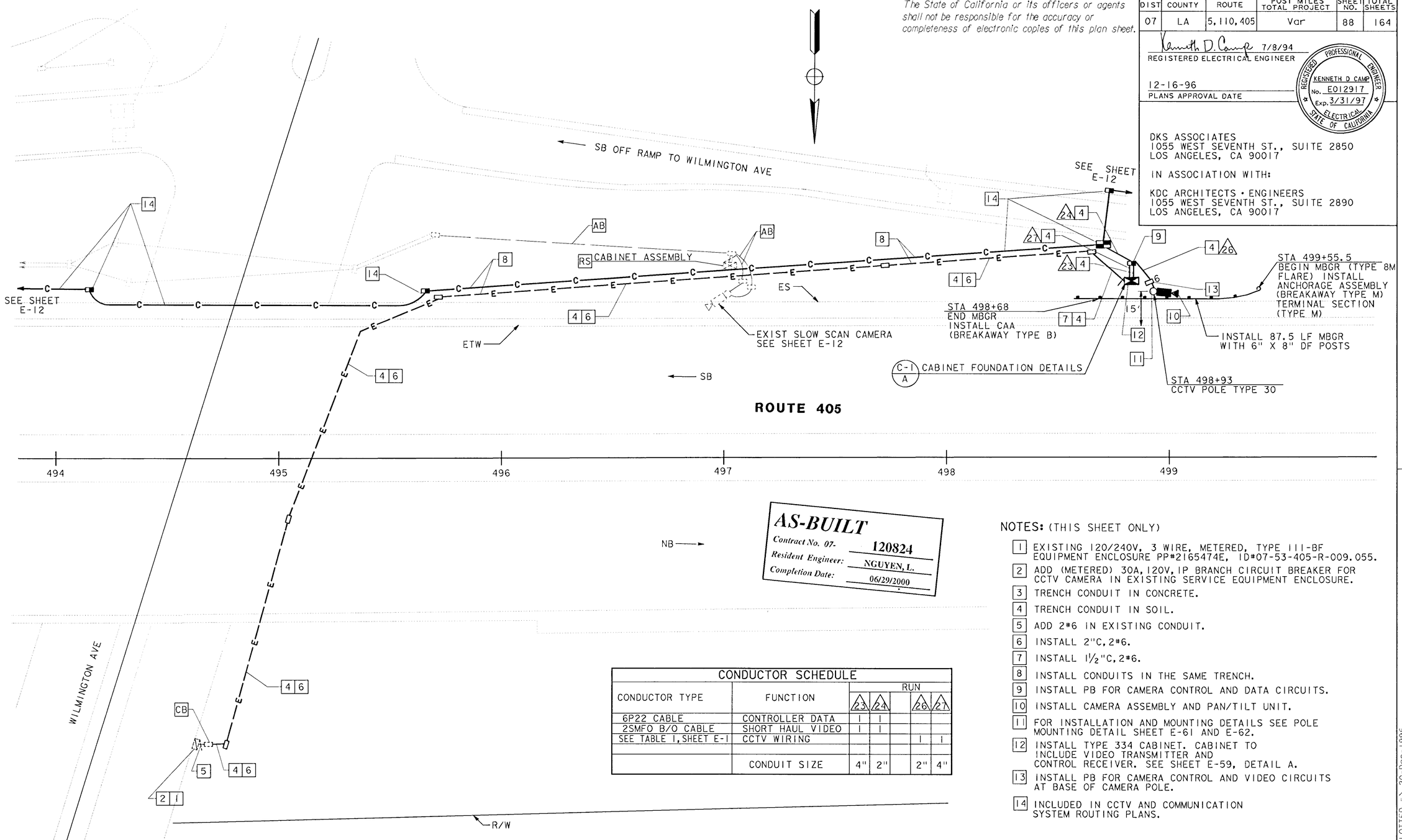
12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017



AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III-BF EQUIPMENT ENCLOSURE PP#2165474E, ID#07-53-405-R-009.055.
2. ADD (METERED) 30A, 120V, IP BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN CONCRETE.
4. TRENCH CONDUIT IN SOIL.
5. ADD 2#6 IN EXISTING CONDUIT.
6. INSTALL 2"C, 2#6.
7. INSTALL 1½"C, 2#6.
8. INSTALL CONDUITS IN THE SAME TRENCH.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEET E-61 AND E-62.
12. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
13. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
14. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 23	RUN 24		RUN 26	RUN 27
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1
	CONDUIT SIZE	4"	2"		2"	4"

CAMERA LOCATION SD096, PM 9.6

CCTV CAMERA (LOCATION SD096)

SCALE: 1"=20'

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

E-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT: PAT SULLIVAN
CALCULATED/DESIGNED BY: DP DATE 11/93 REVISED BY
CHECKED BY: CF 7/94 DATE REVISED

LAST REVISION 09-18-95
DATE PLOTTED => 20-Dec-1996
TIME PLOTTED => 13:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	89	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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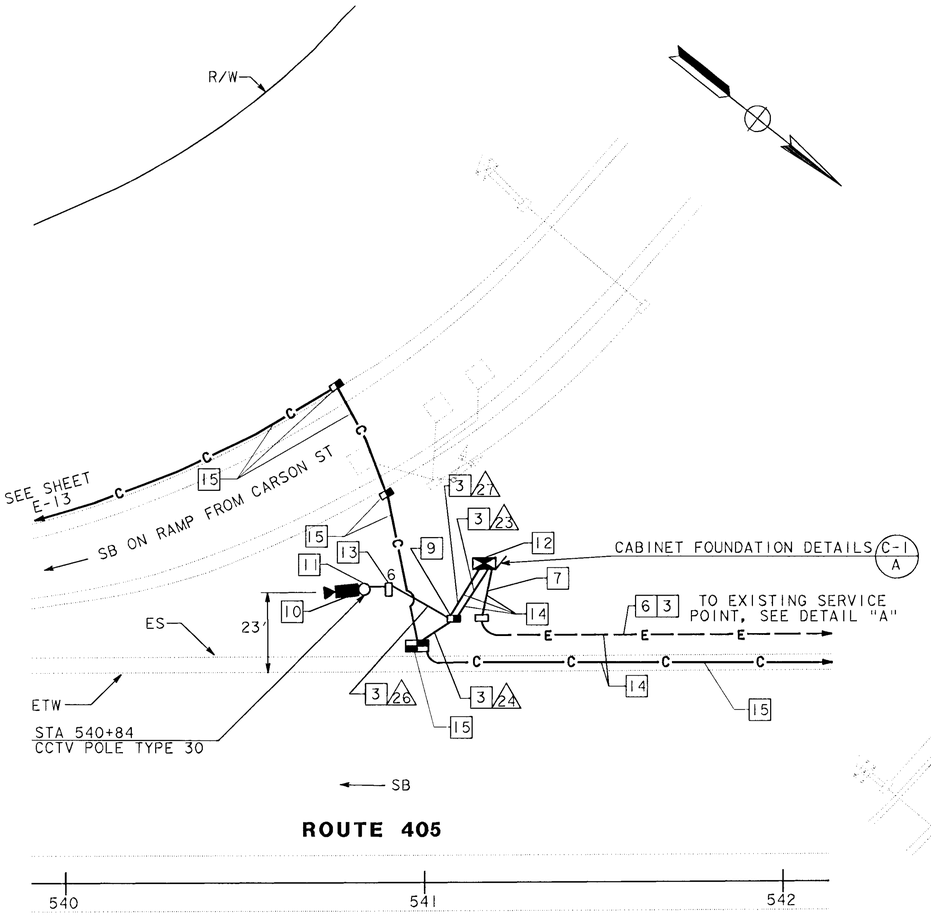
CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN				
		23	24		26	27
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1
	CONDUIT SIZE	4"	2"		2"	4"

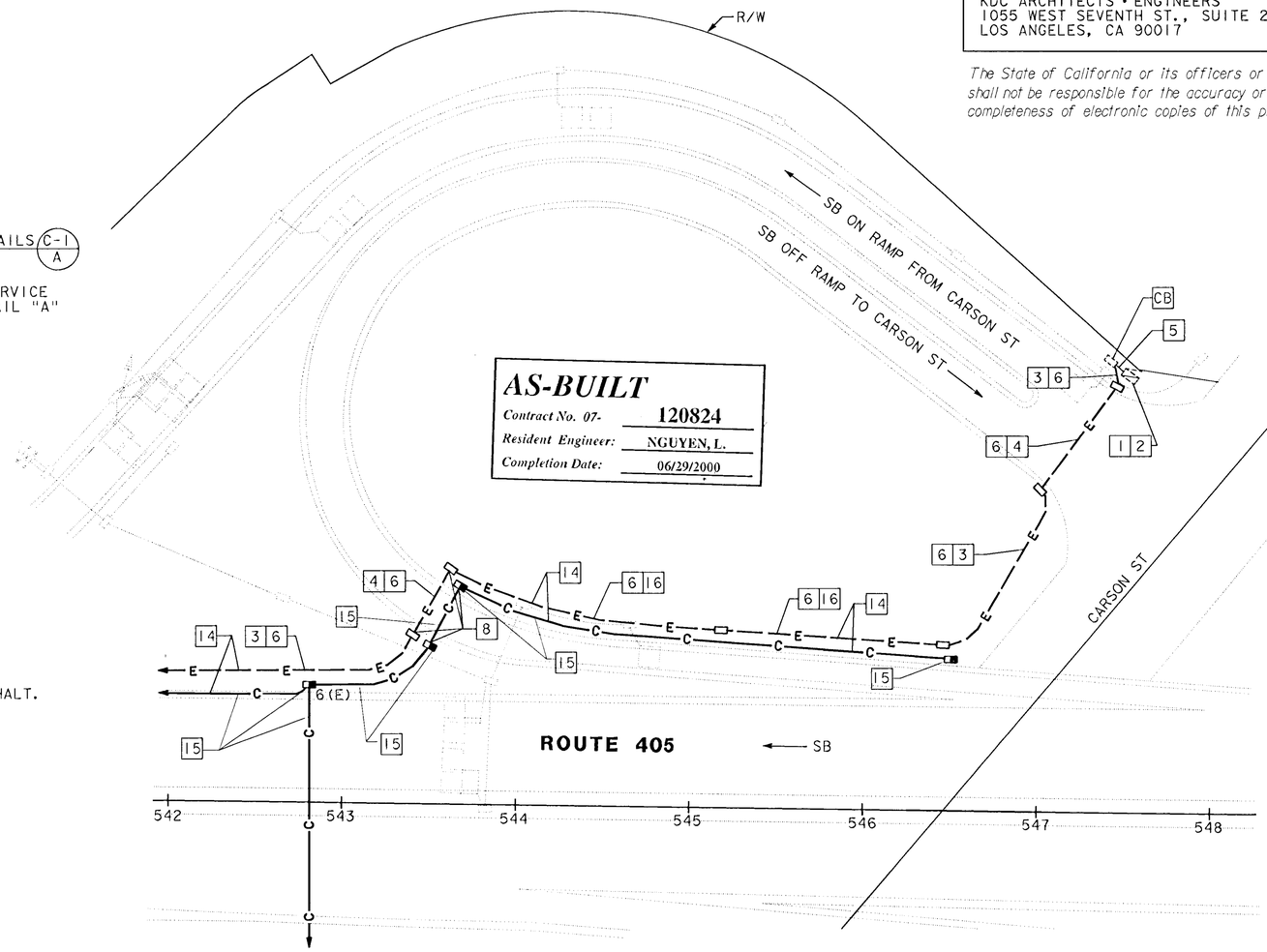


CAMERA LOCATION SD105, PM 10.5

SCALE: 1" = 20'

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ID#0753405R01O.
2. ADD (METERED) 30A, 120V, IP BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN SOIL.
4. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
5. ADD 2#6 IN EXISTING CONDUIT.
6. INSTALL 2"C, 2#6.
7. INSTALL 1½"C, 2#6.
8. USE THE SAME PIT FOR JACKING CONDUITS.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT. SET PAN STOPS AT 60°, SEE SHEETS E-1 AND E-64.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND 62.
12. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
13. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
14. INSTALL CONDUITS IN THE SAME TRENCH.
15. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.
16. TRENCH CONDUIT IN ASPHALT.



DETAIL "A"

SCALE: 1" = 40'

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

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV CAMERA (LOCATION SD105)

SCALE AS NOTED

E-32

DESIGN OVERSIGHT — PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CALCULATED/ DESIGNED BY	DP	11/93	REVISED BY
CHECKED BY	CF	7/94	DATE REVISED

LAST REVISION 09-18-95
DATE PLOTTED => 27-Dec-1996
TIME PLOTTED => 06:10

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u33.dgn DATE: Fri Apr 13 2001 TIME : 12:57

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	90	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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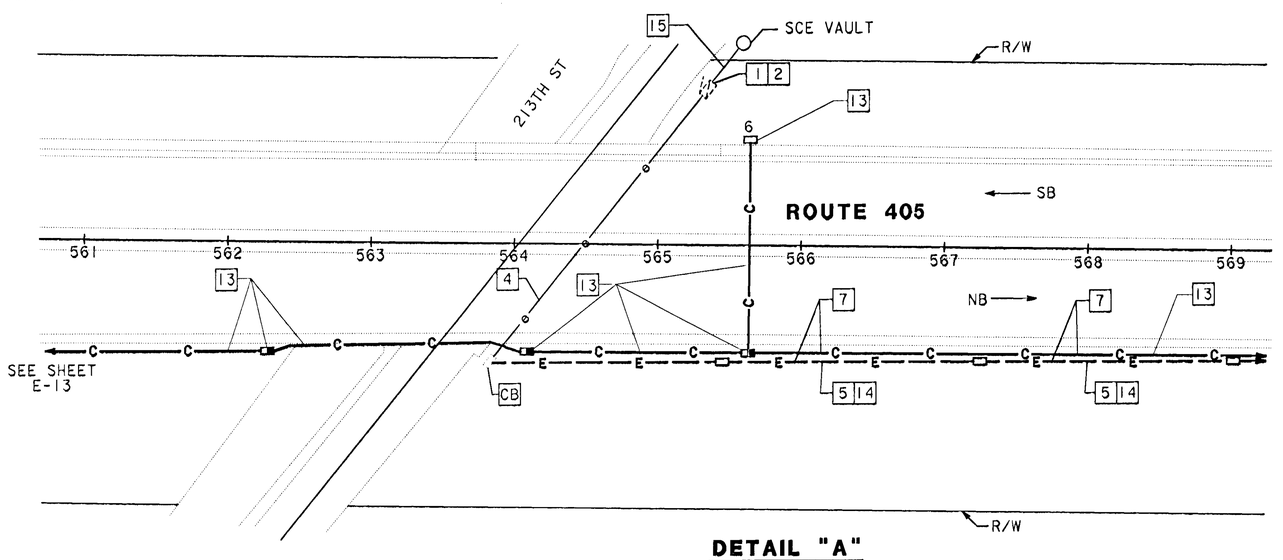
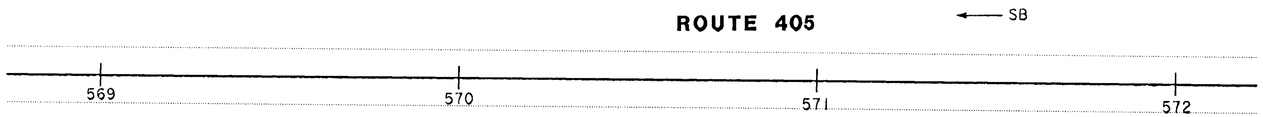
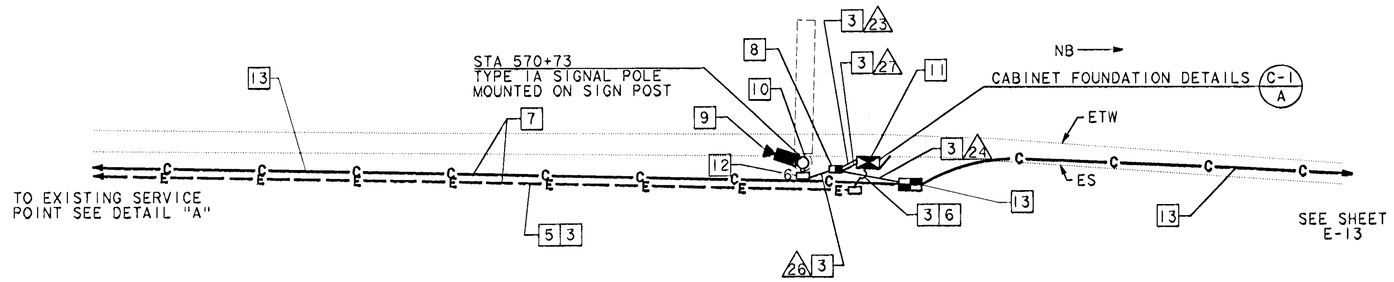


DETAIL "A"
SCALE: 1" = 50'





CAMERA LOCATION SD111, PM 11.1
SCALE: 1" = 20'

NOTES: (THIS SHEET ONLY)

1. REPLACE EXISTING 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE. WITH NEW ONE, 100A MAIN
2. ADD 30A, 120V, 1P (METERED) CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN SOIL.
4. ADD 2#4 IN EXISTING CONDUIT.
5. INSTALL 2"C, 2#4.
6. INSTALL 1½"C, 2#4.
7. INSTALL CONDUITS IN THE SAME TRENCH.
8. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
11. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER, SEE SHEET E-59, DETAIL A.
12. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
13. INCLUDED IN CCDTV AND COMMUNICATION SYSTEM ROUTING PLANS.
14. TRENCH CONDUIT IN ASPHALT.
15. CORE 2" C

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 23	RUN 24	RUN 26	RUN 27
6P22 CABLE	CONTROLLER DATA	1	1		
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1		
SEE TABLE 1, SHEET E-1	CCTV WIRING			1	1
	CONDUIT SIZE	4"	2"	2"	4"

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

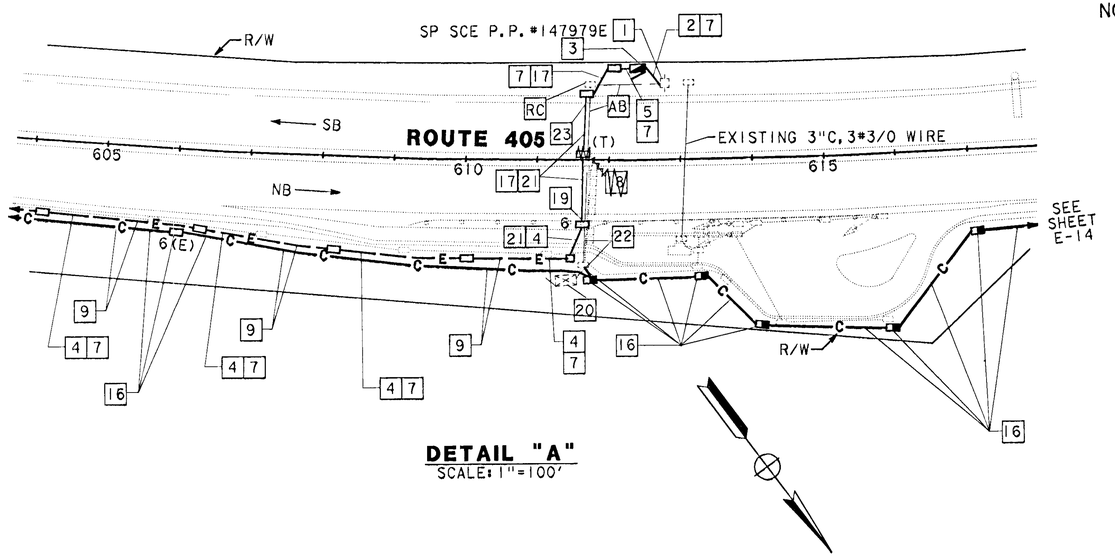
CCTV CAMERA (LOCATION SD111)

SCALE AS NOTED

E-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN OVERSIGHT PAT SULLIVAN
CALCULATED/DESIGNED BY RL DATE 11/93 REVISED BY
CHECKED BY CF 7/94 DATE REVISED
13-Apr-2001 HHuynh
712082u3313125641

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
CU 07396 EA 120821
LAST REVISION



NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON EXISTING SERVICE POLE PER UTILITY COMPANY REQUIREMENTS. REMOVE EXISTING TYPE E SERVICE, CONDUIT AND CONDUCTORS.
2. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
3. INSTALL 120/240V, 3 WIRE, ~~M~~ METERED, TYPE III ~~SE~~ SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND INSTALL 30A, 120V, 1P CIRCUIT BREAKER FOR VIDEO NODE AND 30A, 120V, 1P CIRCUIT BREAKER FOR DATA NODE AND 30A, 120V, 1P CIRCUIT BREAKER FOR EXISTING TMS. ID 0753-405-0-011.891 ONE 200A, 240 V, 4P MAIN CIRCUIT BREAKER FOR RTE-405 NB WIEGH SATION.
4. INSTALL 2"C, 4#1.
5. INSTALL 2"C, 2#6 AND 2"C, 4#1.
6. TRENCH CONDUIT IN CONCRETE.
7. TRENCH CONDUIT IN SOIL.
8. INSTALL 1½"C, 2#1.
9. INSTALL CONDUITS IN THE SAME TRENCH.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-61 AND E-62.
13. INSTALL TYPE 334 CABINET. DATA NODE CABINET TO INCLUDE TWO D4 CHANNEL BANKS. SEE SHEET E-59, DETAIL B.
14. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
15. INSTALL TYPE 334 CABINET. VIDEO NODE CABINET TO INCLUDE 16 CHANNEL VIDEO MULTIPLEXER, AND 12 VIDEO RECEIVERS AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL B.
16. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.
17. INSTALL 3"C, 4#1, 2#6.
18. PLACE NO. 5 TRAFFIC PULL BOX AS CLOSE TO MEDIAN BARRIER AS POSSIBLE.
19. REMOVE EXISTING PULL BOX AND INSTALL NEW PULL BOX.
20. INSTALL 2#6 CONDUCTORS IN EXISTING TMS CABINET.
21. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
22. INSTALL 2#6 CONDUCTORS IN EXISTING CONDUIT.
23. CORE DRILL THROUGH CONCRETE TO EXISTING PULL BOX BEHIND SOUNDWALL, SEE SHEET C-12.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	91	164

Kenneth D Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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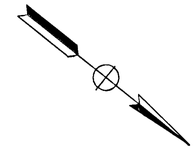

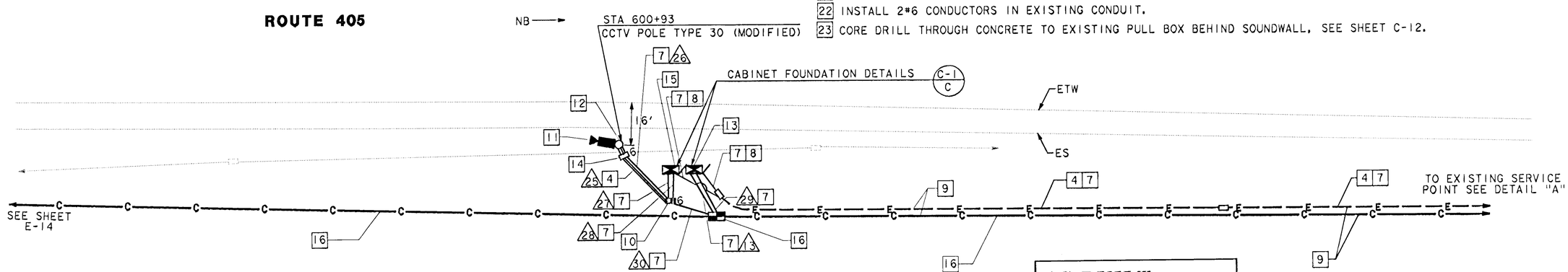

CONDUCTOR SCHEDULE														
CONDUCTOR TYPE	FUNCTION	RUN												
		13		26	27	28			29			30		
75P22 CABLE	COMMUNICATION DATA							2						
6P22 CABLE	CONTROLLER DATA					1			1			1		
2SMFO B/O CABLE	NODE CONTROL						4			4			4	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION					2						2		
SEE TABLE 1, SHEET E-1	CCTV WIRING			1	1									
	INNERDUCT					1¼"	1¼"		1¼"	1¼"		1¼"	1¼"	
	CONDUIT SIZE	4"		2"	4"	4"			4"			4"		

AS-BUILT
Contract No: 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CAMERA LOCATION SD116, PM 11.6
VIDEO/DATA NODE SD116
SCALE: 1"=20'

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

CCTV CAMERA, EQUIPMENT AT DATA NODE AND EQUIPMENT AT VIDEO NODE (LOCATION SD116)

SCALE AS NOTED

E-34

CALCULATED/ DESIGNED BY	DP	DATE 11/93	REVISED BY
CHECKED BY	CF	7/94	DATE REVISED

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

712082u3413123832 13-Apr-2001 HHuynh

LAST REVISION => DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u3413123832

CU 07396

EA 120821

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u35.dgn DATE: Fri Apr 13 2001 TIME: 12:38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	92	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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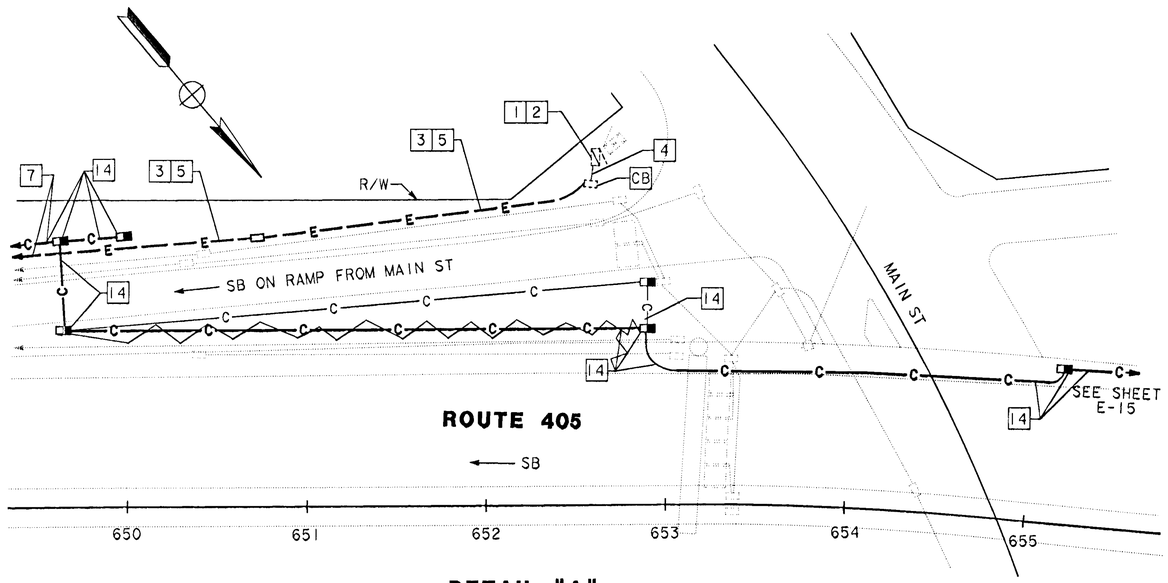
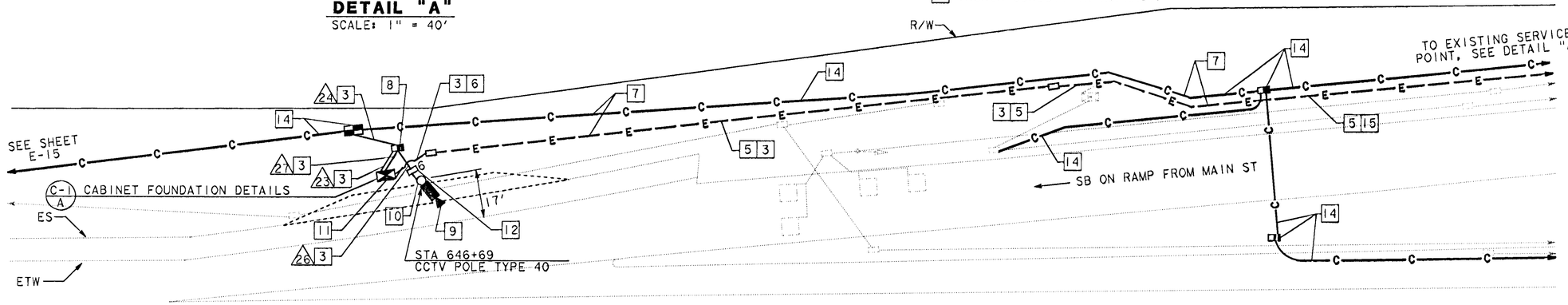
NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III-8F SERVICE EQUIPMENT ENCLOSURE: PP#281299M, ID#07-53-405-R-012.060.
2. ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH FOR CONDUIT IN SOIL.
4. ADD 2#6 IN EXISTING CONDUIT.
5. INSTALL 2"C, 2#6.
6. INSTALL 1½"C, 2#6.
7. INSTALL CONDUITS IN THE SAME TRENCH.
8. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT. SET PAN STOPS AT 150°, SEE SHEETS E-1 AND E-64.
10. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
11. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
12. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
13. SEE SHEET L-11 FOR LAYOUT DETAILS.
14. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.
15. TRENCH CONDUIT IN ASPHALT.



DETAIL "A"
SCALE: 1" = 40'



CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN					
		23	24		26	27	
6P22 CABLE	CONTROLLER DATA	1	1				
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1				
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1	
	CONDUIT SIZE	4"	2"		2"	4"	

AS-BUILT
Contract No: 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CAMERA LOCATION SD125, PM 12.5
SCALE: 1"=20'

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

CCTV CAMERA (LOCATION SD125)
SCALE AS NOTED

E-35

DESIGN OVERSIGHT: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CALCULATED/DESIGNED BY | DP | DATE 11/93 | REVISED BY
CHECKED BY | CF | 7/94 | DATE REVISED
712082u3513123736 13-Apr-2001 HHuynh
LAST REVISION | DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => HHuynh
DGN FILE => 712082u3513123736
CU 07396
EA 120821

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u35.dgn DATE: Fri Apr 13 2001 TIME: 12:38

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u36.dgn DATE: Fri Apr 13 2001 TIME: 12:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	93	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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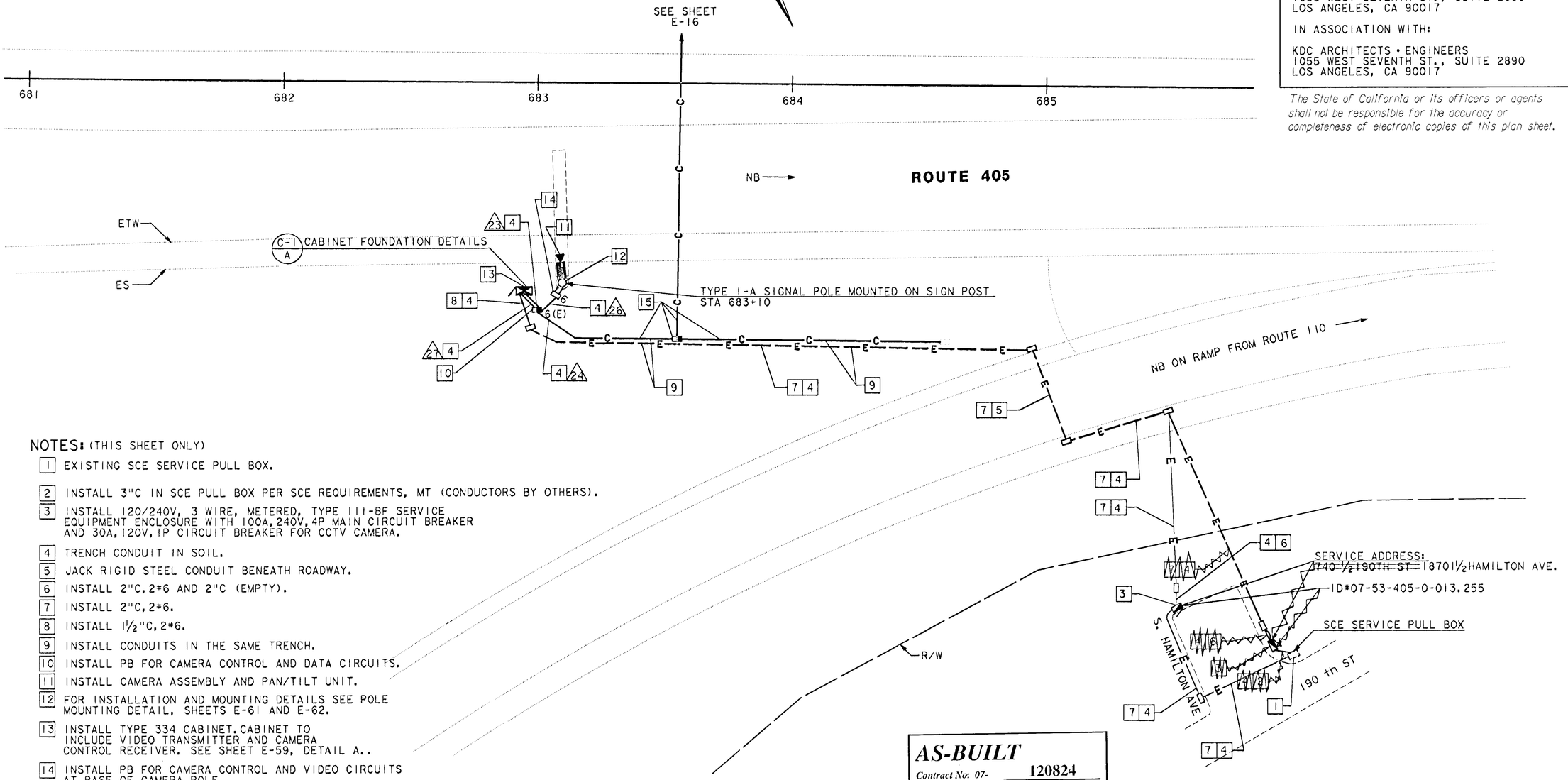
CONDUCTOR SCHEDULE							
CONDUCTOR TYPE	FUNCTION	RUN 23	24		26	27
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1
	CONDUIT SIZE	4"	2"		2"	4"



NOTES: (THIS SHEET ONLY)

1. EXISTING SCE SERVICE PULL BOX.
2. INSTALL 3"C IN SCE PULL BOX PER SCE REQUIREMENTS, MT (CONDUCTORS BY OTHERS).
3. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 4P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA.
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. INSTALL 2"C, 2#6 AND 2"C (EMPTY).
7. INSTALL 2"C, 2#6.
8. INSTALL 1 1/2"C, 2#6.
9. INSTALL CONDUITS IN THE SAME TRENCH.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
13. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A..
14. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
15. INCLUDED IN CCTV AND COMMUNICATION SYSTEM PLANS.

CAMERA LOCATION SD132, PM 13.2

AS-BUILT
Contract No: 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV CAMERA (LOCATION SD132)

SCALE: 1" = 20'

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

E-36

DATE	REVISED BY	DESIGN OVERSIGHT
11/93	DP	PAT SULLIVAN
7/94	CF	

CALCULATED/ DESIGNED BY	CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

712082u3613123637 13-Apr-2001 HHuynh

LAST REVISION DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

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USERNAME => HHuynh
DGN FILE => 712082u3613123637

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u36.dgn DATE: Fri Apr 13 2001 TIME: 12:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	94	164

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Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

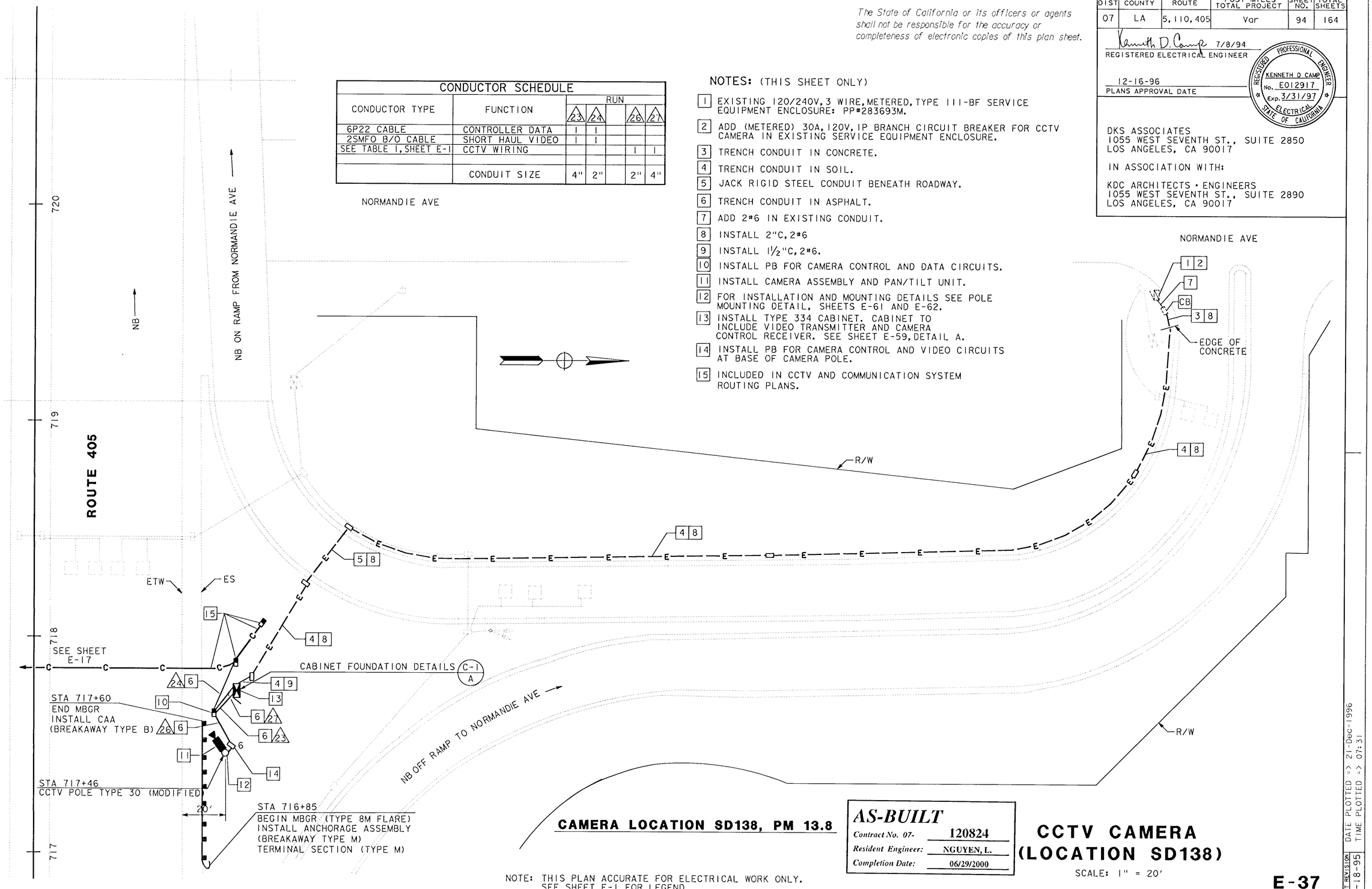
IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN				
		23	24		26	27
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1
	CONDUIT SIZE	4"	2"		2"	4"

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE: PP#283693M.
2. ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN CONCRETE.
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. TRENCH CONDUIT IN ASPHALT.
7. ADD 2#6 IN EXISTING CONDUIT.
8. INSTALL 2"C, 2#6
9. INSTALL 1½"C, 2#6.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
13. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
14. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
15. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.



CAMERA LOCATION SD138, PM 13.8

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

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV CAMERA (LOCATION SD138)

SCALE: 1" = 20'

E-37

DATE	REVISED BY
11/93	DP
7/94	CF

DATE REVISED

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CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 09-18-95
DATE PLOTTED => 21-Dec-1996
TIME PLOTTED => 07:31

[ESC-OE]712082u37.psf 21-Dec-1996 trbling

FORM DC-OE-92-PF (REV. 3/88)

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USERNAME => trbling
DGN FILE => [ESC-OE]712082u37.psf

CU 07396

EA 120821

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	95	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KENNETH D CAMP
No. E012917
Exp. 3/31/97
ELECTRICAL
STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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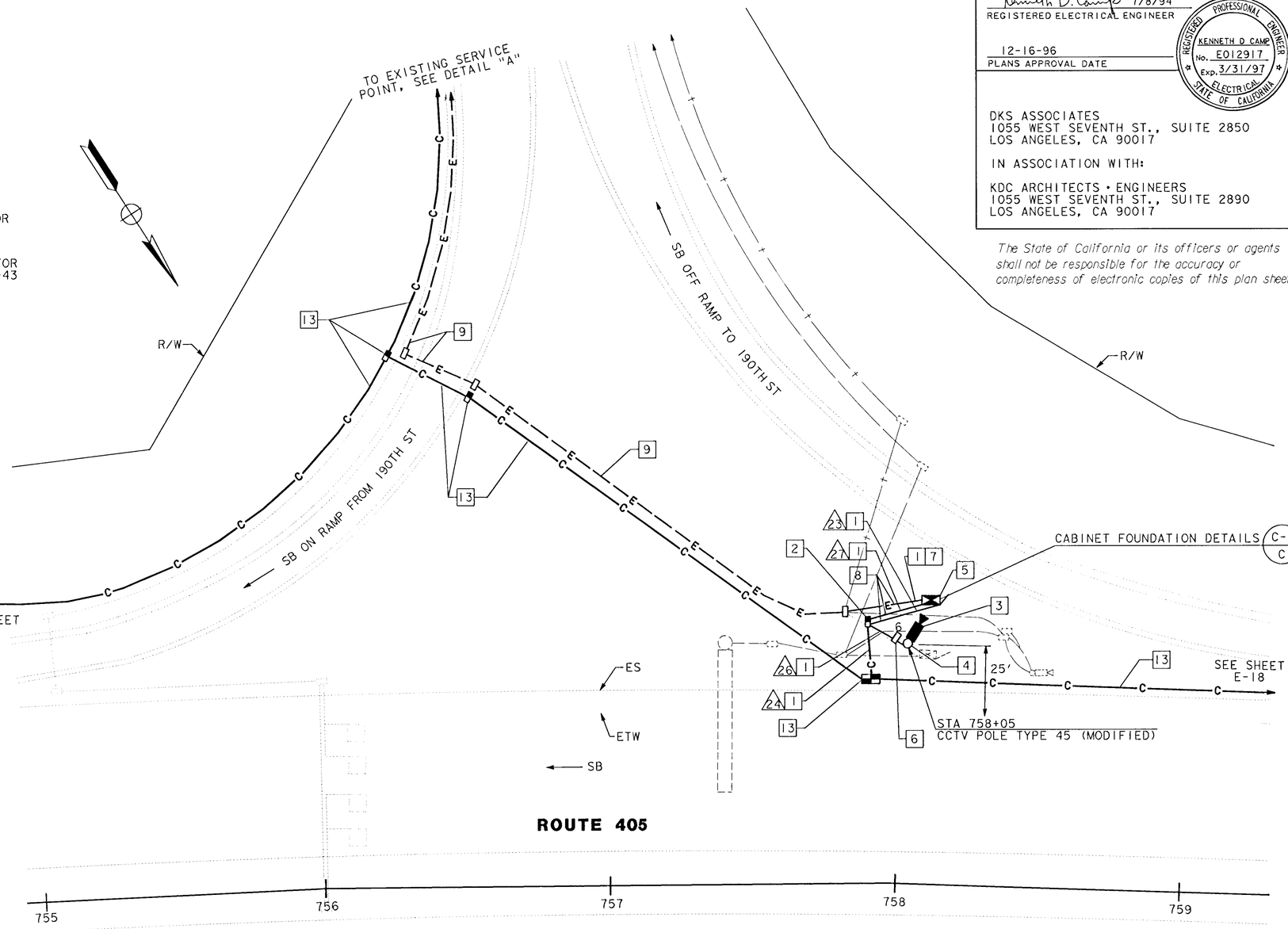
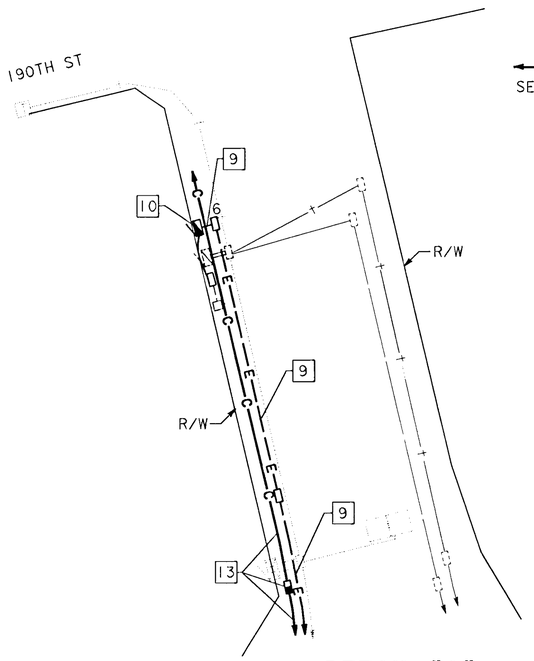
NOTES: (THIS SHEET ONLY)

1. TRENCH FOR CONDUIT IN ASPHALT.
2. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
3. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
4. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL, SHEETS E-61 AND E-62.
5. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
6. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
7. INSTALL 1½"C, 2#6.
8. INSTALL CONDUIT IN THE SAME TRENCH.
9. ADD 2#6 CONDUCTORS IN SERVICE CONDUIT INSTALLED FOR CMS NO 39. SEE SHEET E-43 FOR CONDUIT SIZE AND INSTALLATION TYPE.
10. ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN THE SERVICE ENCLOSURE. SEE SHEET E-43 FOR SERVICE DETAILS.
11. SEE SHEET L-13 FOR LAYOUT DETAILS.
12. FOR POWER SERVICE SEE SHEET E-43.
13. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 23	RUN 24		RUN 26	RUN 27
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1
	CONDUIT SIZE	4"	2"		2"	4"





DETAIL "A"
SCALE: 1"=40'

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CAMERA LOCATION SD145, PM 14.5
SCALE: 1" = 20'

CCTV CAMERA (LOCATION SD145)

SCALE AS NOTED

E-38

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT: PAT SULLIVAN
CALCULATED/DESIGNED BY: DP | DATE: 11/93 | REVISED BY
CHECKED BY: CF | 7/94 | DATE REVISED

DATE PLOTTED => 21-Dec-1996
TIME PLOTTED => 07:32
LAST REVISION 09-18-95

[ESC-OE]712082u38.psf 21-Dec-1996 trbing

FORM DC-OE-92-PF (REV. 3/88)

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DGN FILE => [ESC-OE]712082u38.psf

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u39.dgn DATE: Fri Apr 13 2001 TIME: 12:36

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN 23	24		26	27
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
SEE TABLE 1, SHEET E-1	CCTV WIRING				1	1
	CONDUIT SIZE	4"	2"		2"	4"

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	96	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

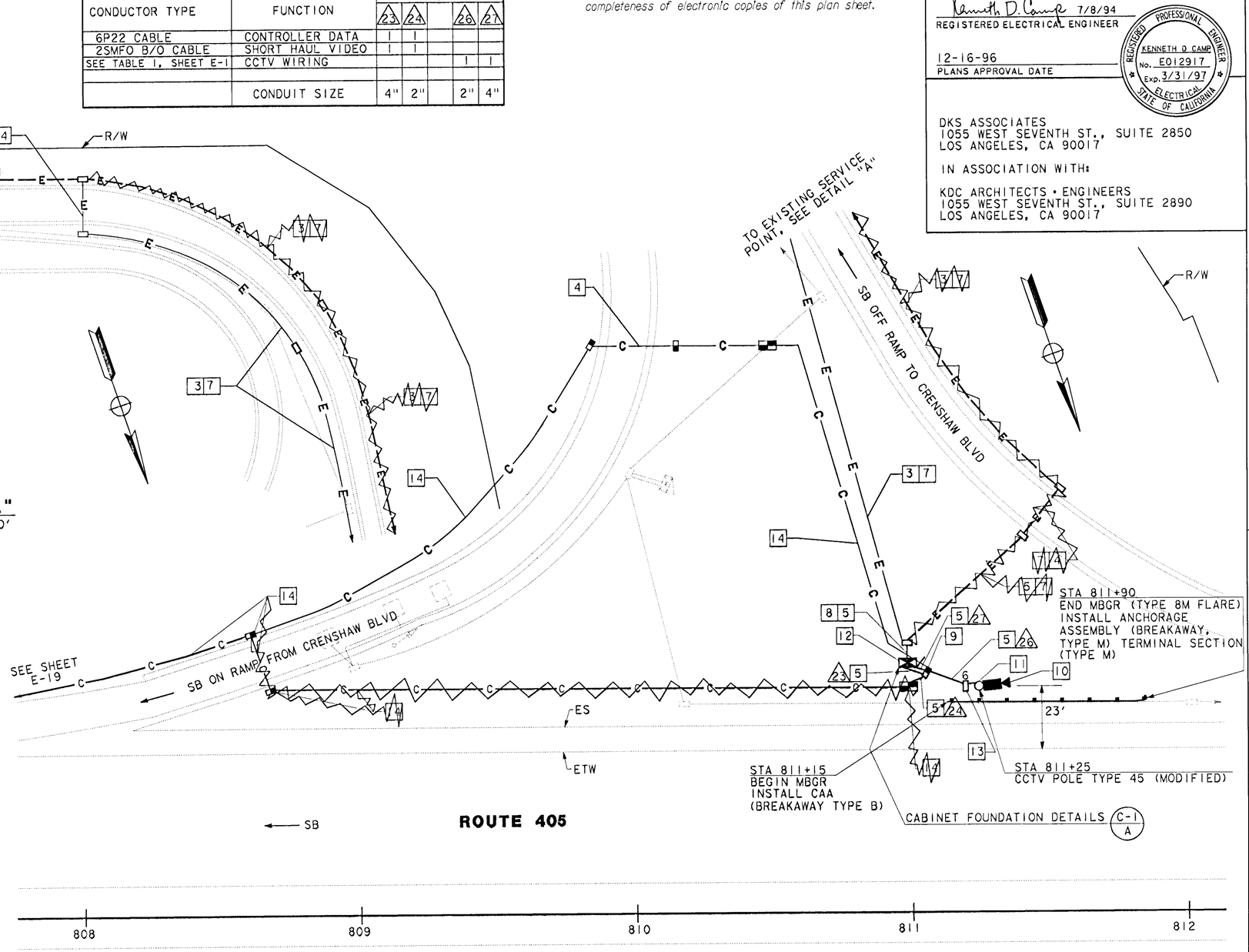
REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017



DETAIL "A"
SCALE: 1" = 40'

CAMERA LOCATION SD159, PM 15.9
SCALE: 1" = 20'

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
2. ADD (METERED) 30A, 120V, IP BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN SOIL.
4. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
5. TRENCH CONDUIT IN ASPHALT.
6. ADD 2#4 IN EXISTING CONDUIT.
7. INSTALL 2"C, 2#4.
8. INSTALL 1½"C, 2#4.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-61 AND E-62.
12. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
13. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
14. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

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

CCTV CAMERA (LOCATION SD159)

SCALE AS NOTED

E-39

REVISED BY	DATE	CALCULATED/ DESIGNED BY	CHECKED BY
DP	11/93		
CF	7/94		

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION: DATE PLOTTED => 13-Apr-2001

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u3913123555

CU 07396

EA 120821

FORM DC-OE-92-PF (REV. 3/89)

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u39.dgn DATE: Fri Apr 13 2001 TIME: 12:36

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	97	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

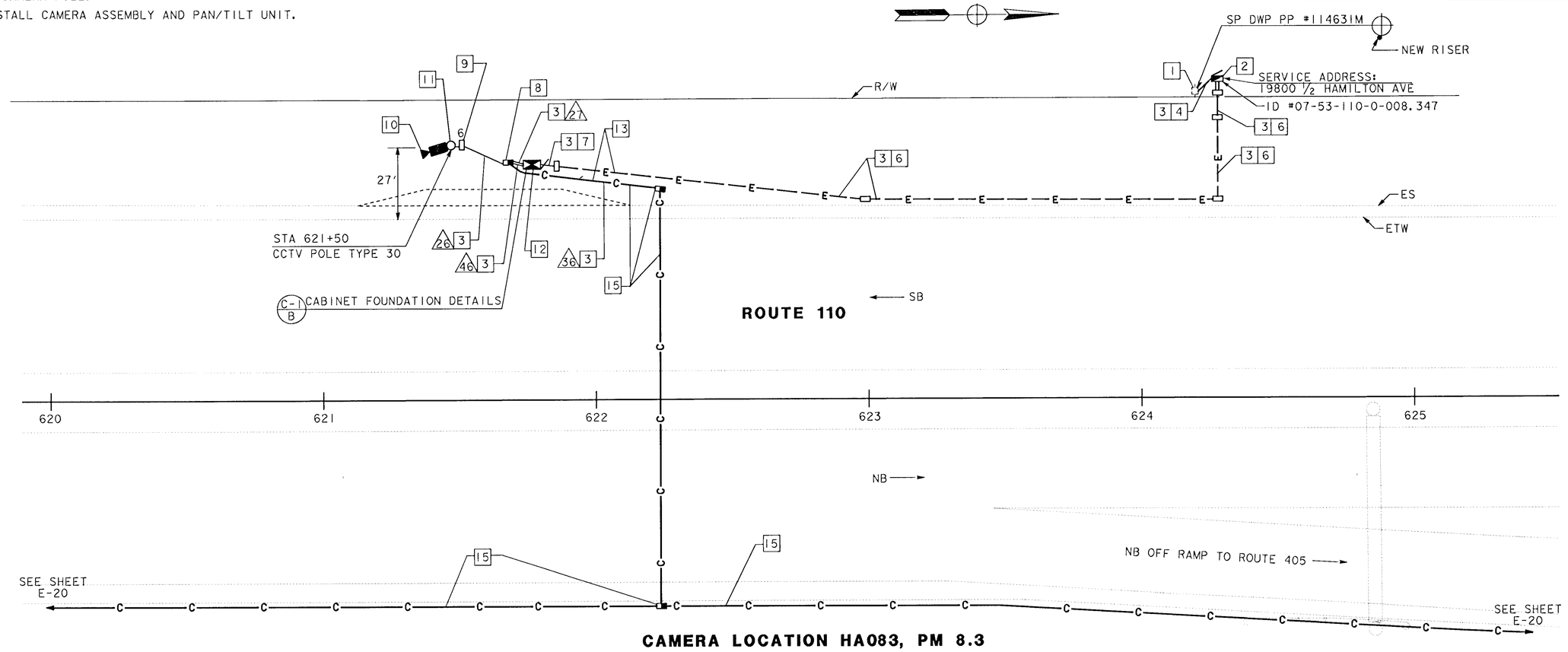
DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C, TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA.
3. TRENCH CONDUIT IN SOIL.
4. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
5. INSTALL 2"C, 2#8 AND 2"C (EMPTY).
6. INSTALL 2"C, 2#8.
7. INSTALL 1½"C, 2#8.
8. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
9. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-61 AND E-62.
12. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER, SEE SHEET E-59, DETAIL A.
13. INSTALL CONDUITS IN THE SAME TRENCH.
14. SEE SHEET L-12 FOR LAYOUT DETAILS.
15. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.
16. INSTALL FOUNDATION 36" DEEP. REPLACE IN KIND THE ADJACENT ASPHALT.



CAMERA LOCATION HA083, PM 8.3

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN				
			26	27	36	46
6P22 CABLE	CONTROLLER DATA				1	1
2SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION				1	1
SEE TABLE 1, SHEET E-1	CCTV WIRING		1	1		
	CONDUIT SIZE		2"	4"	2"	4"

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

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

CCTV CAMERA (LOCATION HA083)

SCALE: 1" = 20'

E-40

DATE	REVISED BY
11/93	RL
7/94	CF

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 20-Dec-1996
TIME PLOTTED => 14:53

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trienard
DGN FILE => [ESC-OE]712082u40.psf

CU 07396

EA 120821

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	98	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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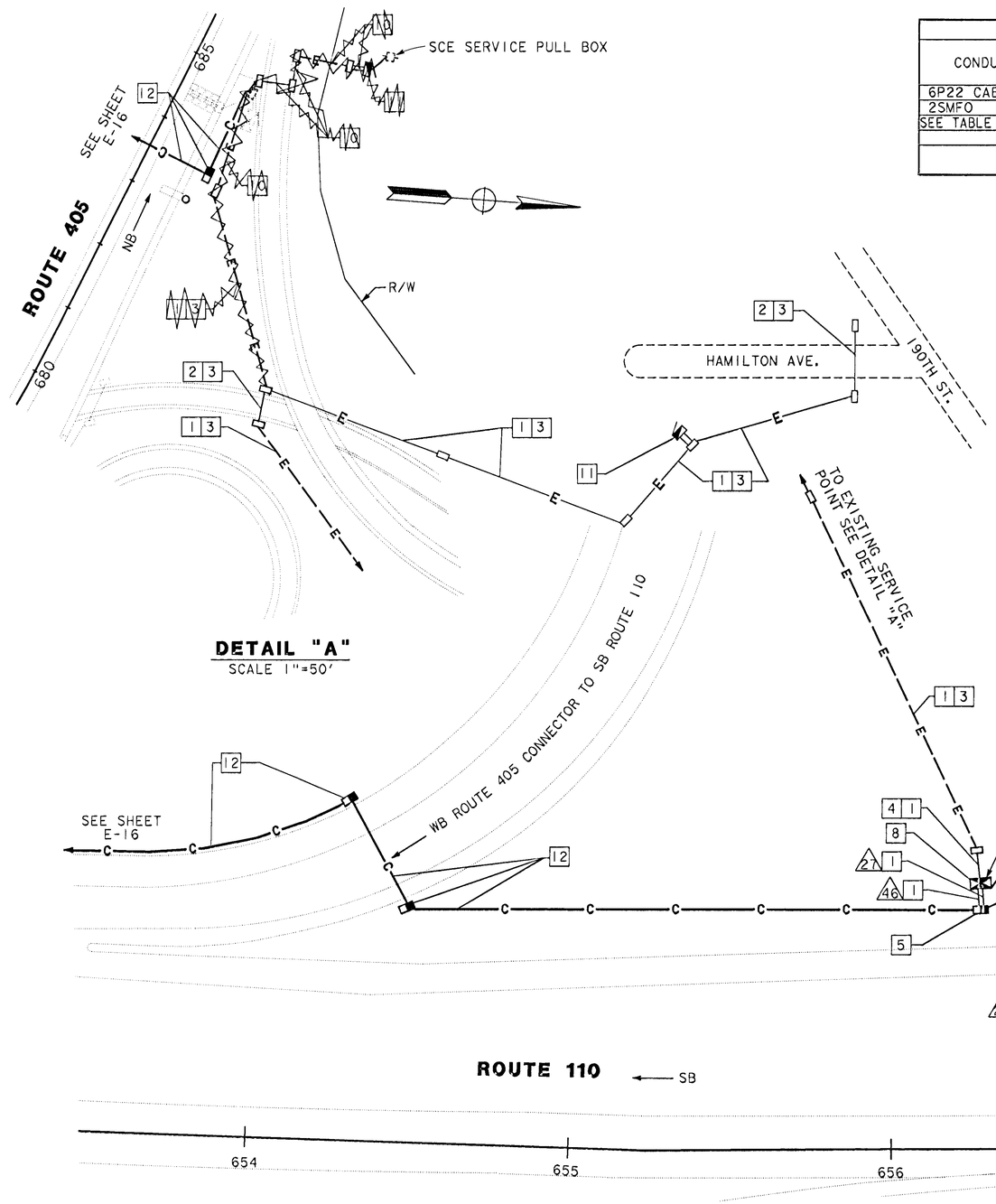
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 26	RUN 27	RUN	RUN 46
6P22 CABLE	CONTROLLER DATA				1
2SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION				1
SEE TABLE 1, SHEET E-1	CCTV WIRING	1	1		1
	CONDUIT SIZE	2"	4"		4"



DETAIL "A"
SCALE 1"=50'

CAMERA LOCATION HA089, PM 8.9
SCALE: 1" = 20'

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

NOTES: (THIS SHEET ONLY)

1. TRENCH CONDUIT IN SOIL.
2. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
3. INSTALL 2"C, 2#2.
4. INSTALL 1½"C, 2#2.
5. INSTALL PULL BOX FOR CAMERA CONTROL AND DATA CIRCUITS.
6. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
7. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-61 AND E-62.
8. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. SEE SHEET E-59, DETAIL A.
9. INSTALL PULL BOX FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
10. ADD 2#2 CONDUCTORS IN THE SERVICE CONDUIT INSTALLED FOR CAMERA LOCATION SD132. SEE SHEET E-36 FOR CONDUIT SIZE AND INSTALLATION TYPE.
11. ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN THE SERVICE ENCLOSURE. SEE SHEET E-36 FOR SERVICE DETAILS.
12. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CCTV CAMERA (LOCATION HA089)

SCALE AS NOTED

E-41

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN OVERSIGHT: PAT SULLIVAN
CALCULATED/DESIGNED BY
CHECKED BY
DP 11/93 REVISED BY
CF 7/94 DATE REVISED
LAST REVISION DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => HHuynh
DGN FILE => 712082u4113123524
CU 07396
EA 120821

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	99	164

NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING 120/240V, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE: PP#1663215E. CONTRACTOR SHALL CONTACT CALTRANS ENGINEER IN ADVANCE BEFORE REMOVING EXISTING SERVICE EQUIPMENT ENCLOSURE AND CONTACT SCE 48 HOURS IN ADVANCE TO TURN OFF POWER FROM SCE CABINET.
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 200A, 240V, 4P MAIN CIRCUIT BREAKER AND (4) 80A, 120V, 1P CIRCUIT BREAKERS AND 30A, 120V, 1P CIRCUIT BREAKER FOR CMS CABINET AND 40A, 120V, 1P CIRCUIT BREAKER FOR EXISTING TRAFFIC MONITORING STATION.
3. CONNECT EXISTING LOAD IN NEW SERVICE EQUIPMENT ENCLOSURE.
4. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
5. TRENCH CONDUIT IN CONCRETE.
6. TRENCH CONDUIT IN SOIL.
7. INSTALL CONDUITS IN THE SAME TRENCH.
8. INSTALL 3"C, 6#2/0 AND 2#4.
9. INSTALL 2"C, 2#4.
10. INSTALL 3"C, 6#1/0 AND 1#4 GROUND.
11. INSTALL 3"C, 6#2/0 AND 2#4 FOR CMS 2"C, 2#8 FOR EXISTING TRAFFIC MONITORING STATION.
12. INSTALL 3"C WITH STATE-FURNISHED 6P18 AND 24P18 CMS CONTROL CABLES.
13. INSTALL 3"C WITH STATE-FURNISHED 6P18 AND 24P18 CMS CONTROL CABLES AND 6P22 TWISTED PAIR CABLE.
15. SEE SHEET E-65 (CMS WIRING DETAILS) NOTE 2 FOR SPLICE INFORMATION.
16. INSTALL STATE-FURNISHED MODEL 500 CMS ON A NEW POST. SEE SHEETS C-2 TO C-7 FOR POST AND CMS MOUNTING DETAILS.
17. INSTALL STATE-FURNISHED MODEL 170 CONTROLLER ASSEMBLY INSIDE STATE-FURNISHED TYPE 334 CABINET ON NEW FOUNDATION. EXACT LOCATION OF CABINET SHALL BE DETERMINED BY THE ENGINEER.
19. SEE SHEET L-13 FOR LAYOUT DETAILS.
20. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
21. TRENCH CONDUIT IN ASPHALT.

6/23/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — VIOREL N PREDESCU — No. 13472 — Exp. 9/30/94 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

WILLIAM J. YANG AND ASSOCIATES
847 N. HOLLYWOOD WAY, SUITE 100
BURBANK, CA 91505-2826

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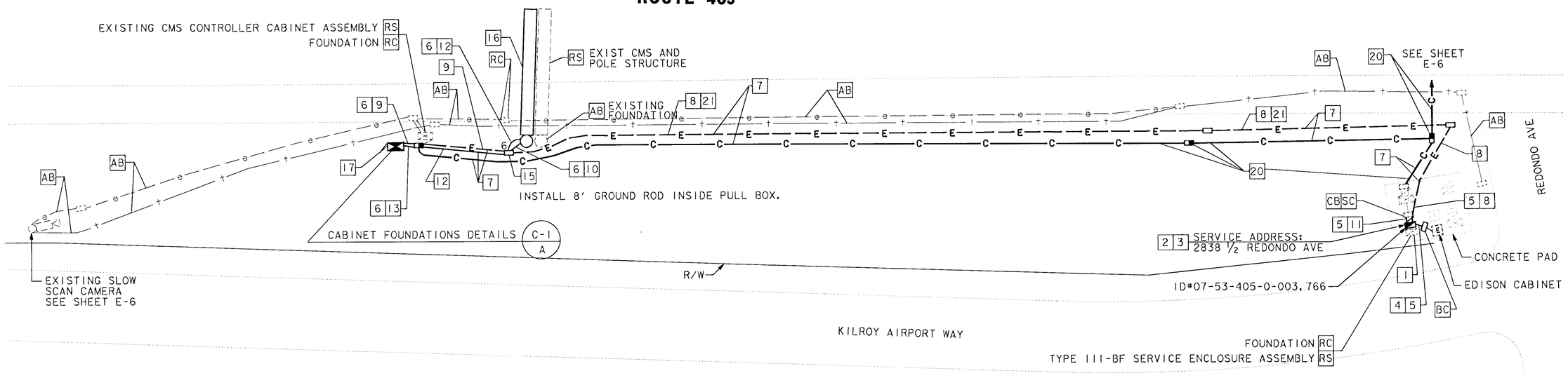
DATE	REVISED BY	DATE REVISED
11/93	SRN	7/94 CF

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

197 198 199 200 201 202



CMS NO. 38, PM 3.7

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

CHANGEABLE MESSAGE SIGN

(CMS NO. 38)

SCALE: 1" = 20'

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

E-42

LAST REVISION 00-00-00
DATE PLOTTED => 27-Dec-1996
TIME PLOTTED => 06:11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	100	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

12-16-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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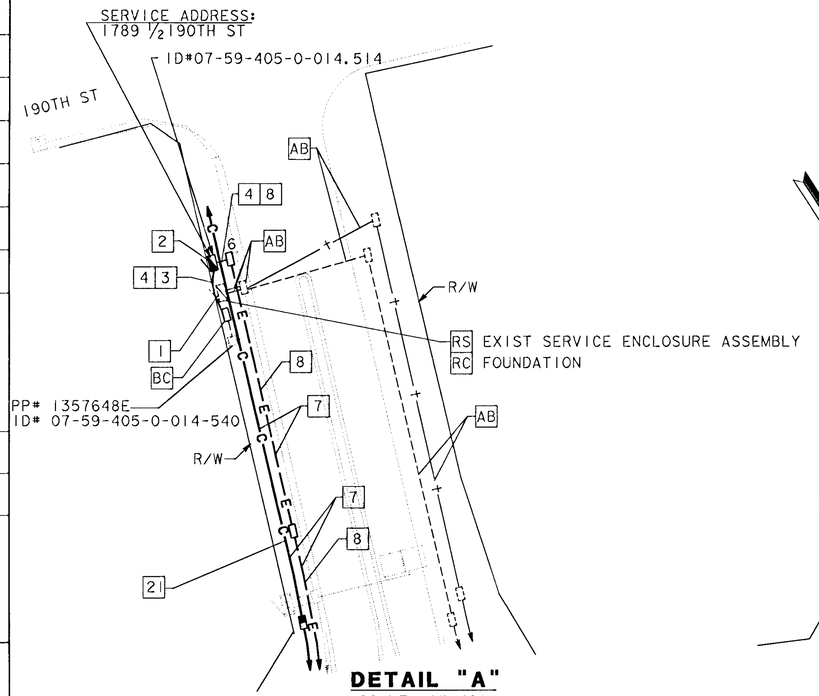
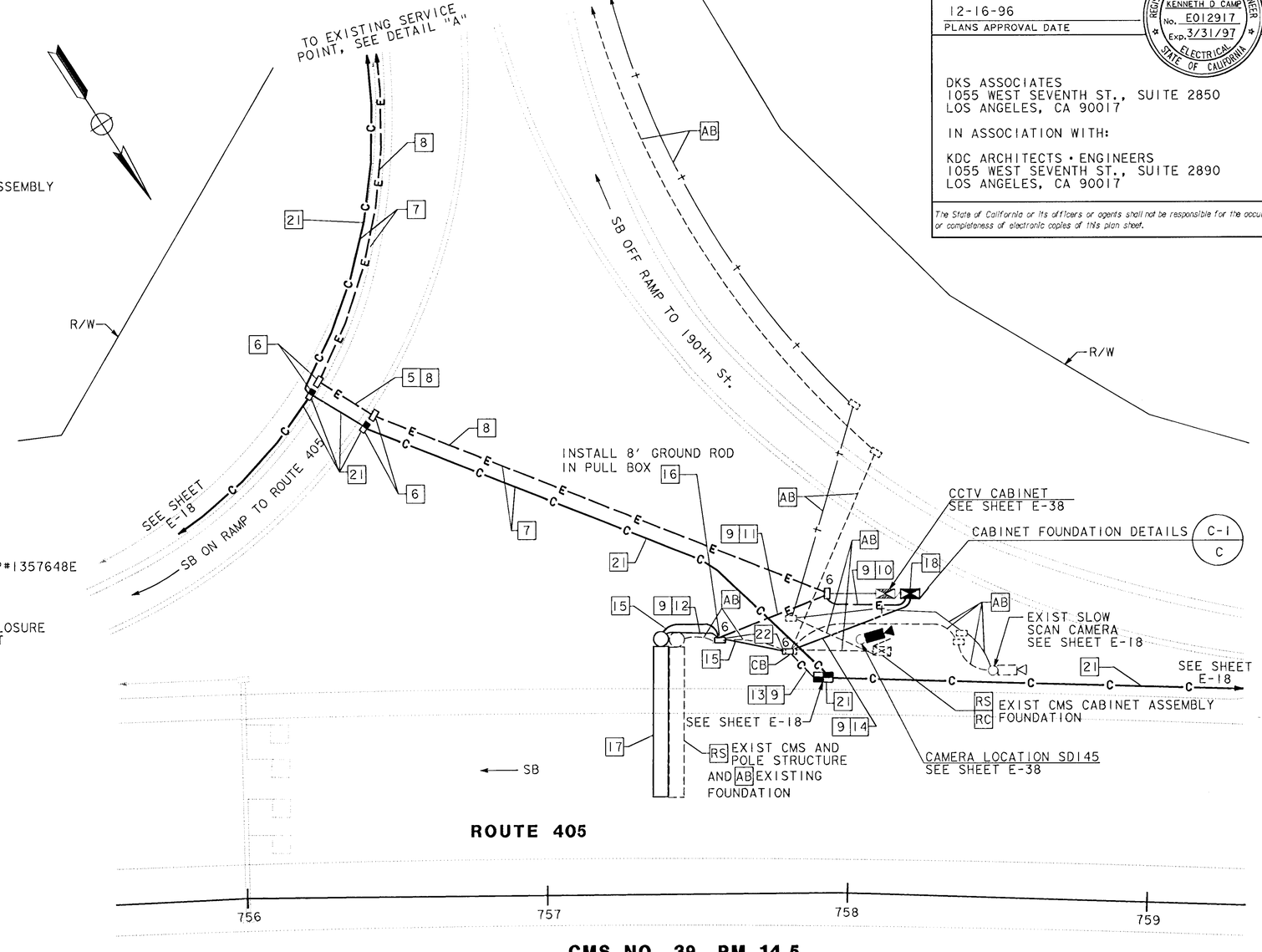


DETAIL "A"
SCALE: 1"=40'



CMS NO. 39, PM 14.5
SCALE: 1" = 20'

NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING 120/240V, METERED, TYPE III-BF SERVICE ENCLOSURE: PP#1357648E THE CONTRACTOR SHALL CONTACT CALTRANS ENGINEER IN ADVANCE BEFORE REMOVING EXISTING SERVICE EQUIPMENT ENCLOSURE AND CONTACT SCE 48 HOURS IN ADVANCE TO TURN OFF POWER FROM SCE POWER POLE.
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 200A, 240V, 4P MAIN CIRCUIT BREAKER AND (4) 80A, 120V, 1P CIRCUIT BREAKERS AND 30A, 120V, 1P CIRCUIT BREAKER FOR CMS CABINET.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. USE THE SAME PIT FOR JACKING CONDUITS.
7. INSTALL CONDUITS IN THE SAME TRENCH.
8. INSTALL 4"C, 12#1/0, 2#2.
9. TRENCH CONDUIT IN ASPHALT.
10. INSTALL 2"C, 2#2.
11. INSTALL 4"C, 12#1/0.
12. INSTALL 3"C, 6#1/0 AND 1#4 GROUND.
13. INSTALL 2"C, 6P22 TWISTED PAIR CABLE.
14. INSTALL 3"C WITH STATE-FURNISHED 6P18 AND 24P18 CMS CONTROL CABLES AND 6P22 TWISTED PAIR CABLE.
15. INSTALL 3"C STATE-FURNISHED 6P18 AND 24P18 CMS CONTROL CABLES.
16. SEE SHEET E-65 (CMS WIRING DETAILS), NOTE 2, FOR SPLICE INFORMATION.
17. INSTALL STATE-FURNISHED MODEL 500 CMS ON NEW POST. SEE SHEETS C-2 TO C-7 FOR POST AND CMS MOUNTING DETAILS.
18. INSTALL STATE-FURNISHED MODEL 170 CONTROLLER ASSEMBLY INSIDE STATE-FURNISHED TYPE 334 CABINET ON NEW FOUNDATION. EXACT LOCATION OF THE CABINET SHALL BE DETERMINED BY THE ENGINEER.
20. SEE SHEET L-13 FOR LAYOUT DETAILS.
21. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
22. REMOVE EXISTING PULL BOX.

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

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

CHANGEABLE MESSAGE SIGN

(CMS NO. 39)
SCALE AS NOTED

E-43

CALCULATED/ DESIGNED BY	RL	DATE 11/93	REVISED BY
CHECKED BY	CF	7/94	DATE REVISED

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 27-Dec-1996
TIME PLOTTED => 06:11

[ESC-OE]7120821u43.psf 27-Dec-1996 trienard

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trienard
DGN FILE => [ESC-OE]7120821u43.psf

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u44.dgn DATE: Fri Apr 13 2001 TIME: 12:35

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	101	164

Kenneth D. Camp 7/8/94
REGISTERED ELECTRICAL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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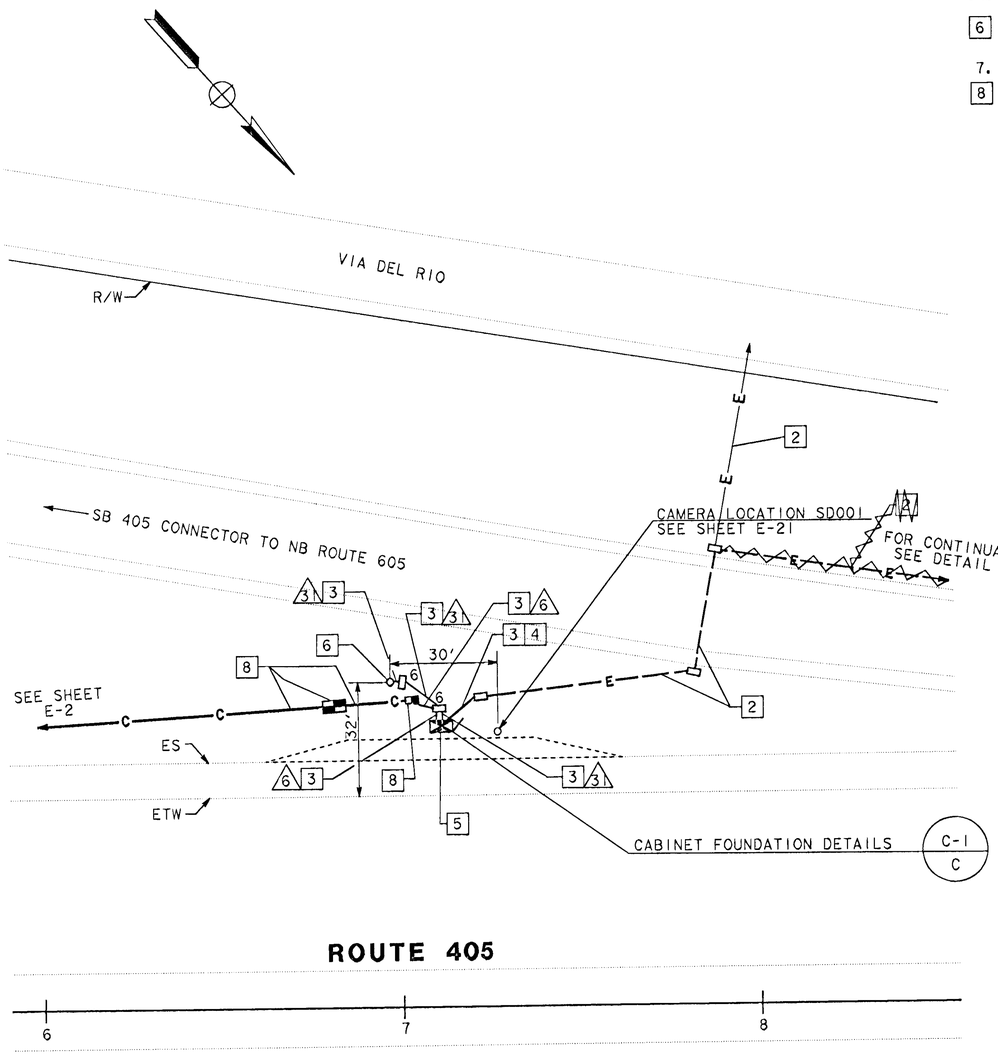
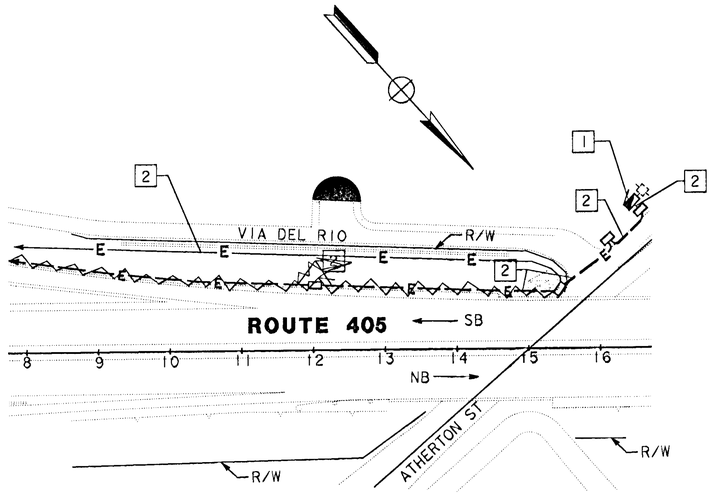
CONDUCTOR SCHEDULE			
CONDUCTOR TYPE	FUNCTION	RUN (6)	RUN (3)
6P22 CABLE	CONTROLLER DATA	1	
COAX CABLE	AUDIO TRANSMISSION DATA		1
	CONDUIT SIZE	2"	2"

NOTES: (THIS SHEET ONLY)

1. ADD 30A, 120V, 1P BRANCH CIRCUIT BREAKER IN THE SERVICE ENCLOSURE . SEE SHEET E-21 FOR SERVICE DETAILS.
2. ADD 2#4 CONDUCTORS IN THE SERVICE CONDUIT INSTALLED FOR CCTV CAMERA SD001. SEE SHEET E-21 FOR CONDUIT SIZE AND INSTALLATION TYPE.
3. TRENCH CONDUIT IN SOIL.
4. INSTALL 1½"C, 2#4.
5. INSTALL TYPE 334 CABINET. CABINET TO INCLUDE HAR TRANSMITTER ASSEMBLEY.
6. INSTALL HAR ANTENNA ON FIBER GLASS POLE SEE HAR ANTENNA MOUNTING DETAIL, SHEET E-60.
7. SEE SHEET L-1 FOR LAYOUT DETAILS.
8. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.



HAR LOCATION SD001, PM 0.1
SCALE: 1" = 20'



DETAIL "A"
SCALE 1"=100'

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

HAR AND COMMUNICATIONS SYSTEM (LOCATION SD001)

SCALE AS NOTED

E-44

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

CALCULATED/ DESIGNED BY	DATE	REVISED BY
CHECKED BY	7/94	DATE REVISED

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

712082u4413123455 13-Apr-2001 HHuynh

DATE PLOTTED => 13-Apr-2001

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u4413123455

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\gb\712082u44.dgn DATE: Fri Apr 13 2001 TIME: 12:35

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ua\ob\712082u45.dgn DATE: Fri Apr 13 2001 TIME: 11:16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	102	164

Pat Sullivan
REGISTERED CIVIL ENGINEER

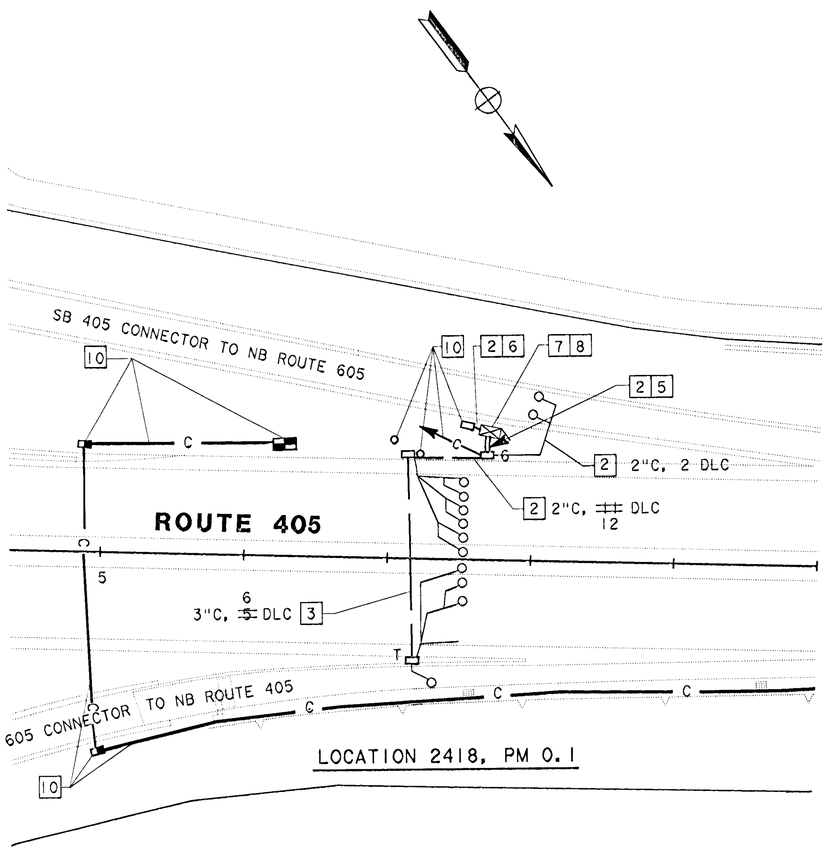
12-16-96
PLANS APPROVAL DATE

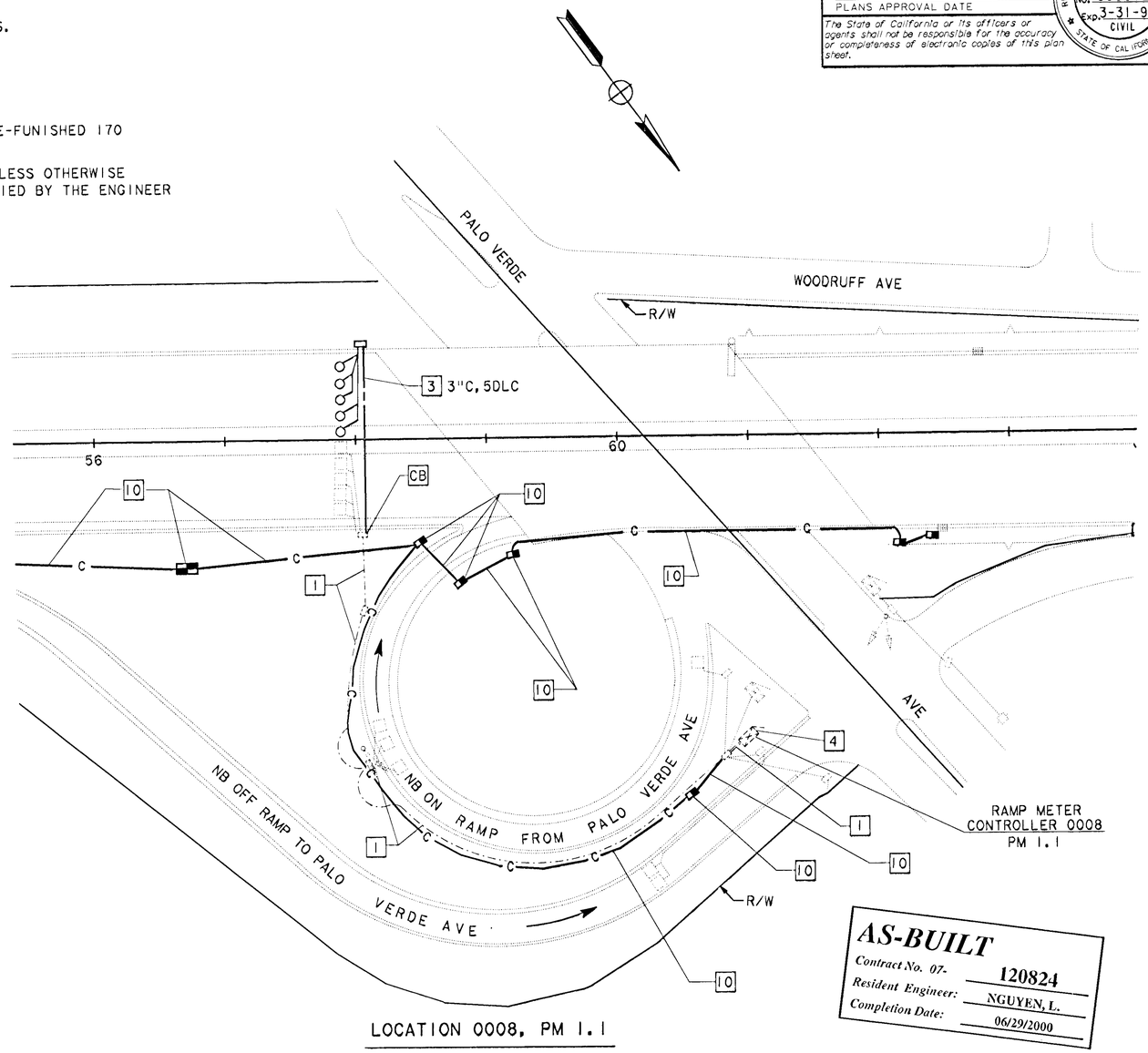
REGISTERED PROFESSIONAL ENGINEER — PAT SULLIVAN — No. C30912 — Exp. 3-31-96 — CIVIL — STATE OF CALIFORNIA

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.

NOTES: (THIS SHEET ONLY).

1. EXISTING CONDUIT. INSTALL NEW 5 DLC.
2. TRENCH CONDUIT IN SOIL.
3. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
4. INSTALL FIVE LOOP SENSOR/DC ISOLATION UNITS IN EXISTING CABINET AND CONNECT DLC CABLES.
5. INSTALL 2-3"C, 6P22, 11 DLC.
6. INSTALL 1 1/2"C, 2#4.
7. FOR ELECTRICAL SERVICE DETAILS, SEE SHEET E-21.
8. INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FUNISHED 170 CONTROLLER ASSEMBLY. SEE SHEET C-1, DETAIL A.
9. LOCATION OF PULL BOXES, CONTROLLER CABINET AND POSITIONING DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATIONS.
10. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS. SEE SHEET E-2, E-3 OR E-21.
11. SEE SHEET E-54 FOR TMS INSTALLATION DETAILS.





AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

TRAFFIC MONITORING STATION AND RAMP METERING SYSTEM (MODIFY) (LOCATIONS 2418 & 0008)

SCALE: 1" = 50'

E-45

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
CHECKED BY			

PROJECT MANAGER: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u4513111514

CU 07396

EA 120821

LAST REVISION 00 00 00 TIME PLOTTED => 13-Apr-2001

USERID: HHuynh@T7NT6044 FILE: f:\projects\120821_ua\ob\712082u45.dgn DATE: Fri Apr 13 2001 TIME: 11:16

NOTES: (THIS SHEET ONLY)

[1] JACK RIGID STEEL CONDUIT BENEATH ROADWAY

[2] EXISTING CONDUIT. REMOVE EXISTING 4 DLC AND INSTALL NEW 10 DLC.

[3] INSTALL SEVEN LOOP SENSOR/DC ISOLATION UNITS IN EXISTING CABINET AND CONNECT DLC CABLES.

4. LOCATION OF PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATIONS.

[5] INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS. SEE SHEET E-4.

6. SEE SHEET E-54 FOR TMS INSTALLATION DETAILS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	103	164

Pat Sullivan
REGISTERED CIVIL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAT SULLIVAN
No. 30912
Exp. 3/31/96
CIVIL
STATE OF CALIFORNIA

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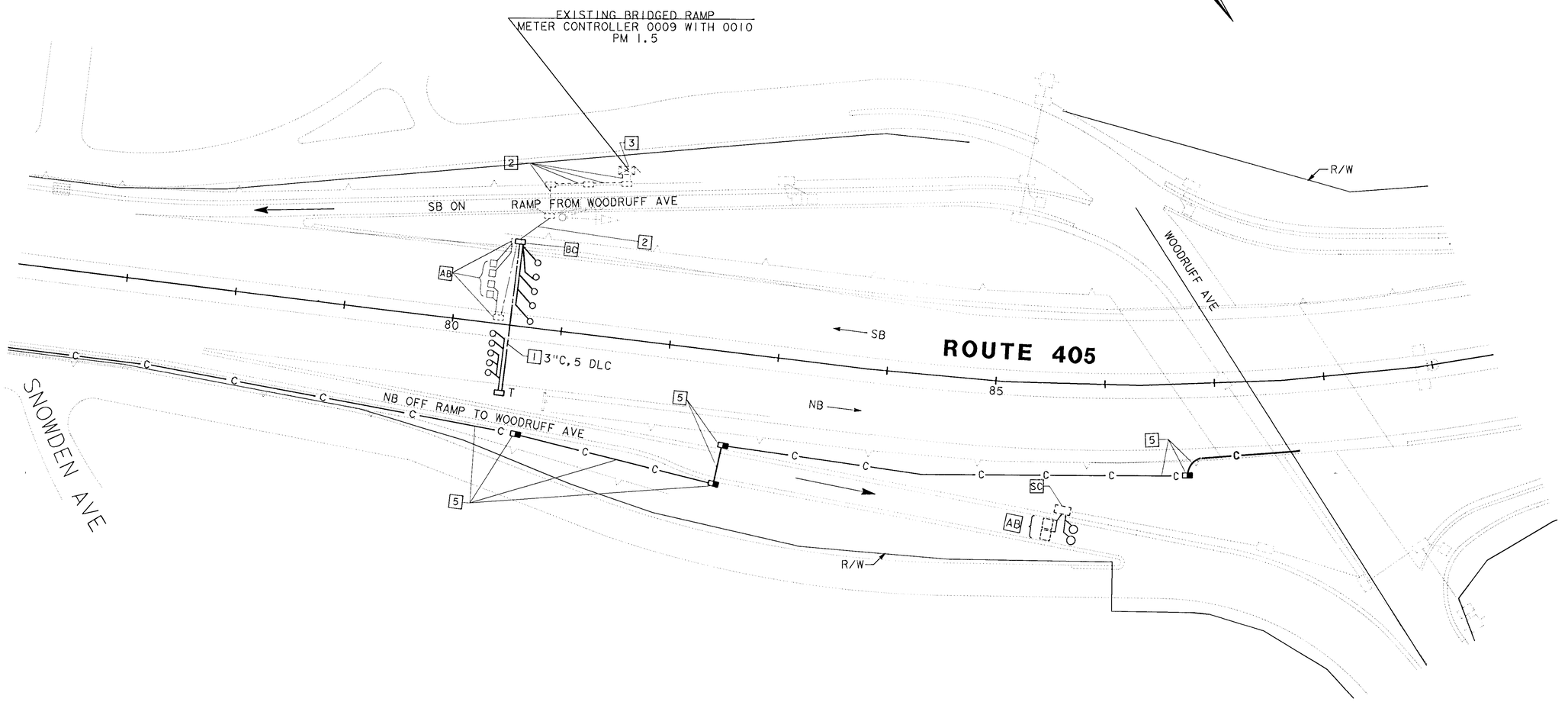

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

RAMP METERING SYSTEM (MODIFY) (LOCATION 0009)

SCALE: 1"=50"

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-46

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY
PROJECT MANAGER: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 09-22-95
TIME PLOTTED => 27-Dec-1996

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trlenard
DGN FILE => (ESC-OEJ7!2082u46.psf

CU 07396

EA 120821

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	104	164

Pat Sullivan
REGISTERED CIVIL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PAT SULLIVAN — No. C30912 — Exp. 9-21-95 — CIVIL — STATE OF CALIFORNIA

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DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT MANAGER
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

NOTES: (THIS SHEET ONLY)

1. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EPUIPMENT ENCLOSURE WITH 100A, 240V, 3P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR TRAFFIC MONITORING STATION. ID NO 0753-405-0-004.001
2. TRENCH CONDUIT IN SOIL.
3. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
4. INSTALL 2"C, 12 DLC.
5. INSTALL 2-3"C, 6P22, 12 DLC.
6. INSTALL 2"C, 2#6.
7. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER POWER COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
8. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
9. INSTALL 2"C, 2#6 AND 2"C (EMPTY).
10. INSTALL 1 ½"C, 2#6.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY. SEE SHEET C-1, DETAIL A.
12. LOCATION OF PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATIONS.
13. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS. SEE SHEET E-6.
14. SEE SHEET E-54 FOR TMS INSTALLATION DETAILS.

CONDUIT RISER PLACEMENT

SE QUADRANT

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

TRAFFIC MONITORING STATION (LOCATION 2123)

SCALE: 1"=50'

E-47

LAST REVISION 13-Apr-2001 TIME PLOTTED => 13-Apr-2001

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u47i111444

CU 07396

EA 120821

NOTES: (THIS SHEET ONLY)

1. INSTALL 120/240V, 3 WIRE, METERED, TYPE 111-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 3P MAIN CIRCUIT BREAKER, TWO 30A, 120V, 1P CIRCUIT BREAKERS FOR TRAFFIC MONITORING STATIONS AND A 15A, 120V, 1P CIRCUIT BREAKER FOR EXISTING DEMARCATION BOX. ID NO 07-53-405-0-006.890. SERVICE ADDRESS: 3550½ NORTH PACIFIC AVENUE
2. TRENCH CONDUIT IN SOIL.
3. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
4. INSTALL 2"C, 13 DLC.
5. INSTALL 2-3"C, 6P22, 13 DLC.
6. INSTALL 2"C, 2#6.
7. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS). PP # 1710384E
8. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
9. INSTALL 2"C, 2#6, 2#8, 2#12 AND 2"C (EMPTY).
10. TRENCH CONDUIT IN CONCRETE.
11. CORE-DRILL THROUGH SOUNWALL TO PULL BOX BEHIND SOUNDWALL. SEE SHEET C-12.
12. INSTALL 1½"C, 2#6.
13. INSTALL 2"C, 6P22.
14. INSTALL 1½"C, 2#8, 2#12.
15. INSTALL CONDUITS IN THE SAME TRENCH.
16. EXISTING TELEPHONE SERVICE RISER AND DEMARCATION BOX TO REMAIN. RC EXISTING TYPE E SERVICE AND RISER.
17. ADD 2#8 IN EXISTING CONDUIT AND RC EXISTING SERVICE CONDUCTORS.
18. ADD 6P22 TWISTED PAIR CABLE IN EXISTING CONDUIT AND TERMINATE ON 12 PAIR TERMINAL BLOCK.
19. INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY. SEE SHEET C-1, DETAIL A.
20. LOCATION OF PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATIONS.
21. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS. SEE SHEET E-9.
22. SEE SHEET E-54 FOR TMS INSTALLATION DETAILS.
23. ADD 2 #12 IN EXISTING CONDUIT.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	105	164

Pat Sullivan
REGISTERED CIVIL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PAT SULLIVAN No. C30912 Exp. 3/31/96 CIVIL — STATE OF CALIFORNIA

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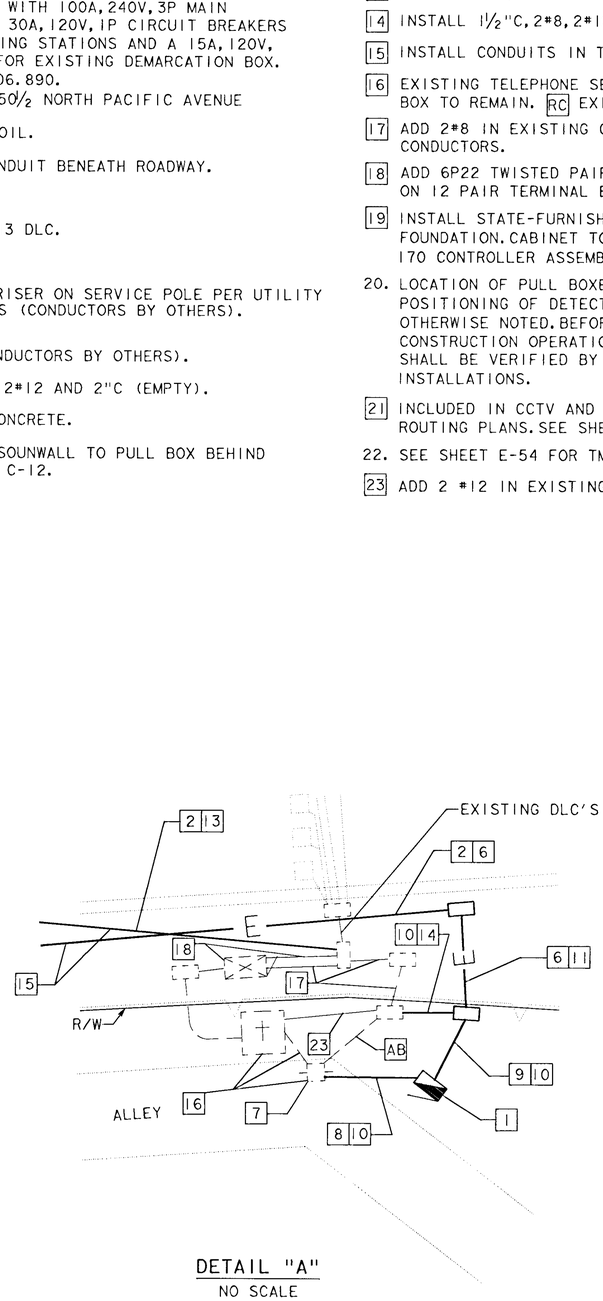
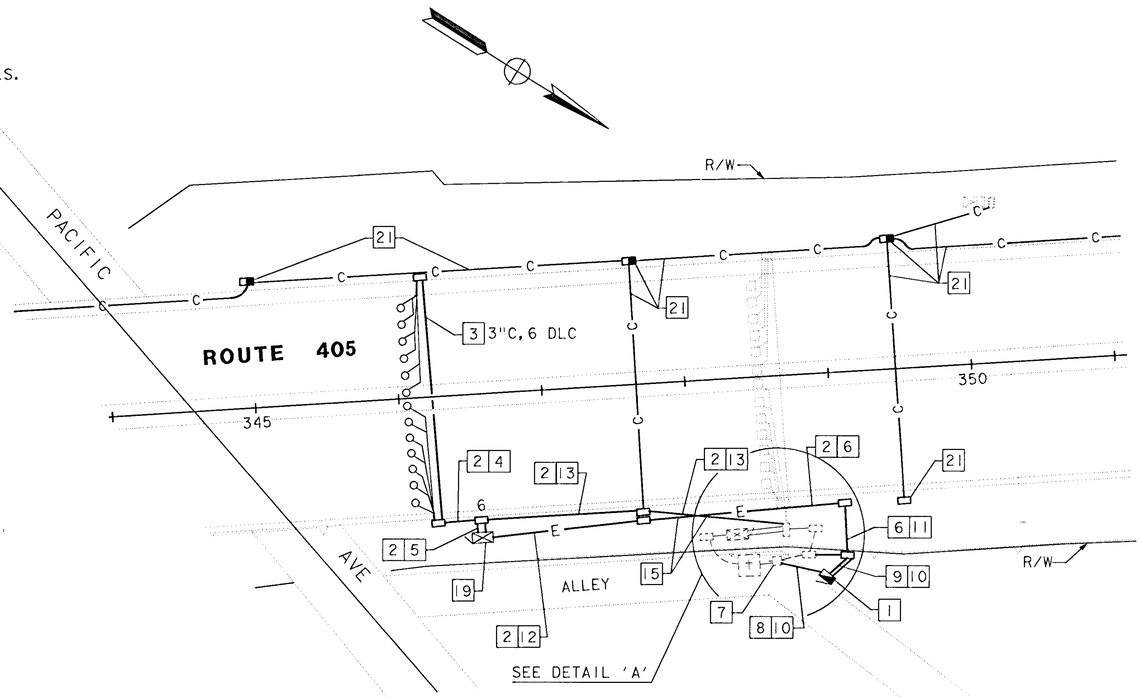


DETAIL "A"
NO SCALE



LOCATION 2476, PM 7.0

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

TRAFFIC MONITORING STATION
(LOCATION 2476)
SCALE: 1"=50'

E-48

NOTE : THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PROJECT MANAGER: PAT SULLIVAN
CALCULATED/DESIGNED BY | DATE | REVISED BY | DATE REVISED | CHECKED BY

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trienard
DGN FILE => [ESC-OEJ]12082u48.psf

CU 07396 | EA 120821

LAST REVISION 00-00-00 | TIME PLOTTED => 27-Dec-1996

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	106	164

Pat Sullivan
REGISTERED CIVIL ENGINEER

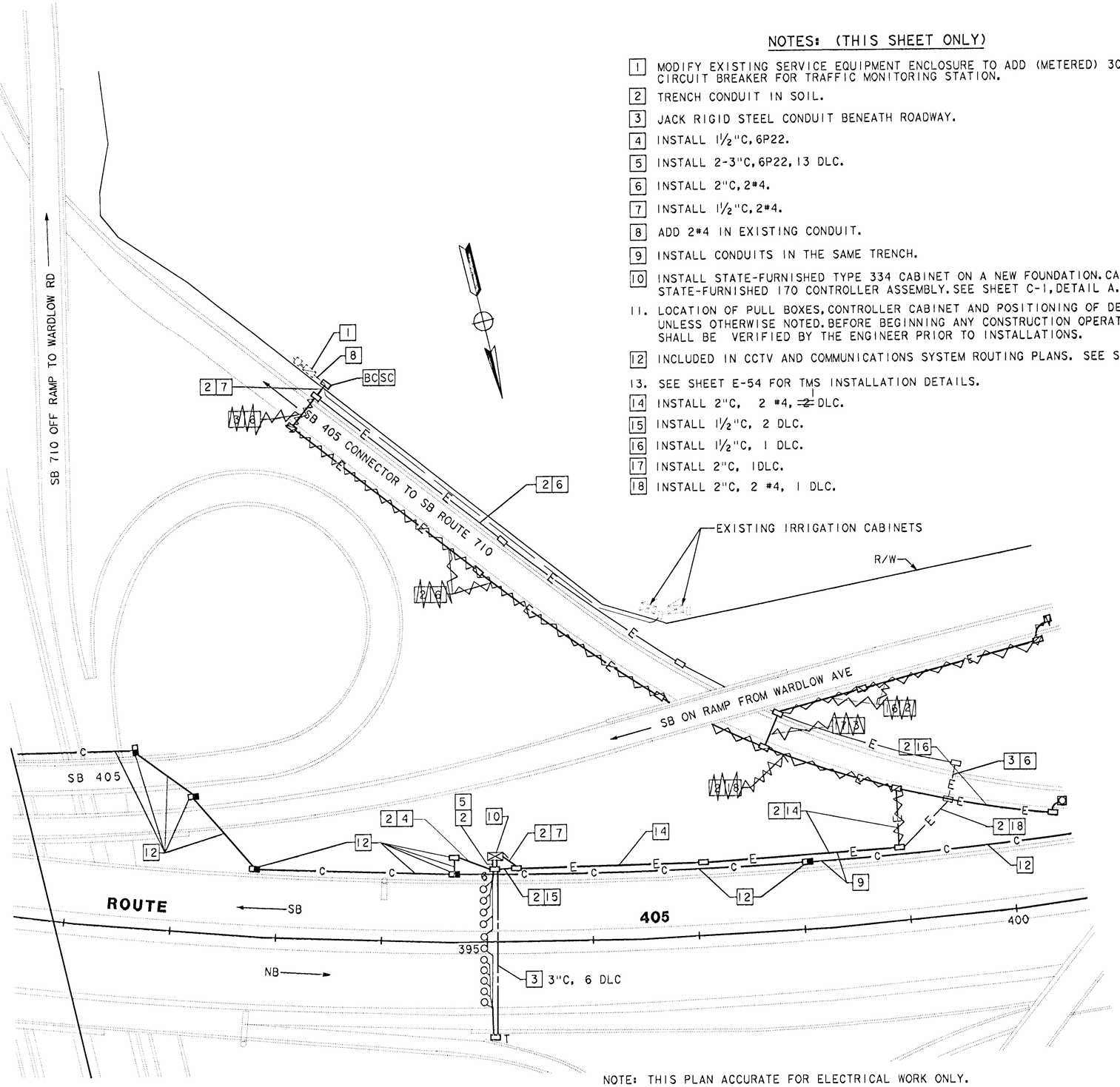
12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PAT SULLIVAN No. C30912 Exp. 3/31/96 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.

NOTES: (THIS SHEET ONLY)

1. MODIFY EXISTING SERVICE EQUIPMENT ENCLOSURE TO ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR TRAFFIC MONITORING STATION.
2. TRENCH CONDUIT IN SOIL.
3. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
4. INSTALL 1½"C, 6P22.
5. INSTALL 2-3"C, 6P22, 13 DLC.
6. INSTALL 2"C, 2#4.
7. INSTALL 1½"C, 2#4.
8. ADD 2#4 IN EXISTING CONDUIT.
9. INSTALL CONDUITS IN THE SAME TRENCH.
10. INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY. SEE SHEET C-1, DETAIL A.
11. LOCATION OF PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATIONS.
12. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS. SEE SHEET E-10.
13. SEE SHEET E-54 FOR TMS INSTALLATION DETAILS.
14. INSTALL 2"C, 2 #4, ~~2~~ 1 DLC.
15. INSTALL 1½"C, 2 DLC.
16. INSTALL 1½"C, 1 DLC.
17. INSTALL 2"C, 1DLC.
18. INSTALL 2"C, 2 #4, 1 DLC.



NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

TRAFFIC MONITORING STATION
(LOCATION 2429)

SCALE: 1"=50'

E-49

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		

PROJECT MANAGER: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 13-Apr-2001

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u4913111408

CU 07396

EA 120821

NOTES: (THIS SHEET ONLY)

1. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 3P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR TRAFFIC MONITORING STATION. ID NO. 0753-405-0-009.001
2. TRENCH CONDUIT IN SOIL.
3. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
4. INSTALL 2"C, 12 DLC.
5. INSTALL 2-3"C, 6P22, 12 DLC.
6. INSTALL 2"C, 2 #6.
7. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
8. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
9. INSTALL 2"C, 2 #6 AND 2"C (EMPTY).
10. JACK RIGID STEEL CONDUIT BENEATH DITCH.
11. CORE-DRILL THROUGH SOUNDWALL TO PULLBOX BEHIND SOUNDWALL, SEE SHEET C-11.
12. INSTALL 2"C, 6P22
13. INSTALL 1½"C, 2 #6.
14. MODIFY EXISTING SERVICE EQUIPMENT ENCLOSURE TO ADD (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR TRAFFIC MONITORING STATION.
15. ADD 2 #6 IN EXISTING CONDUIT.
16. INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO ENCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY. SEE SHEET C-1, DETAIL A.
17. LOCATION OF PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATIONS.
18. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS. SEE SHEET E-11 AND E-12.
19. SEE SHEET E-54 FOR TMS INSTALLATION DETAILS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	107	164

Pat Sullivan
REGISTERED CIVIL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PAT SULLIVAN — No. 30912 — Exp. 3-31-96 — CIVIL — STATE OF CALIFORNIA

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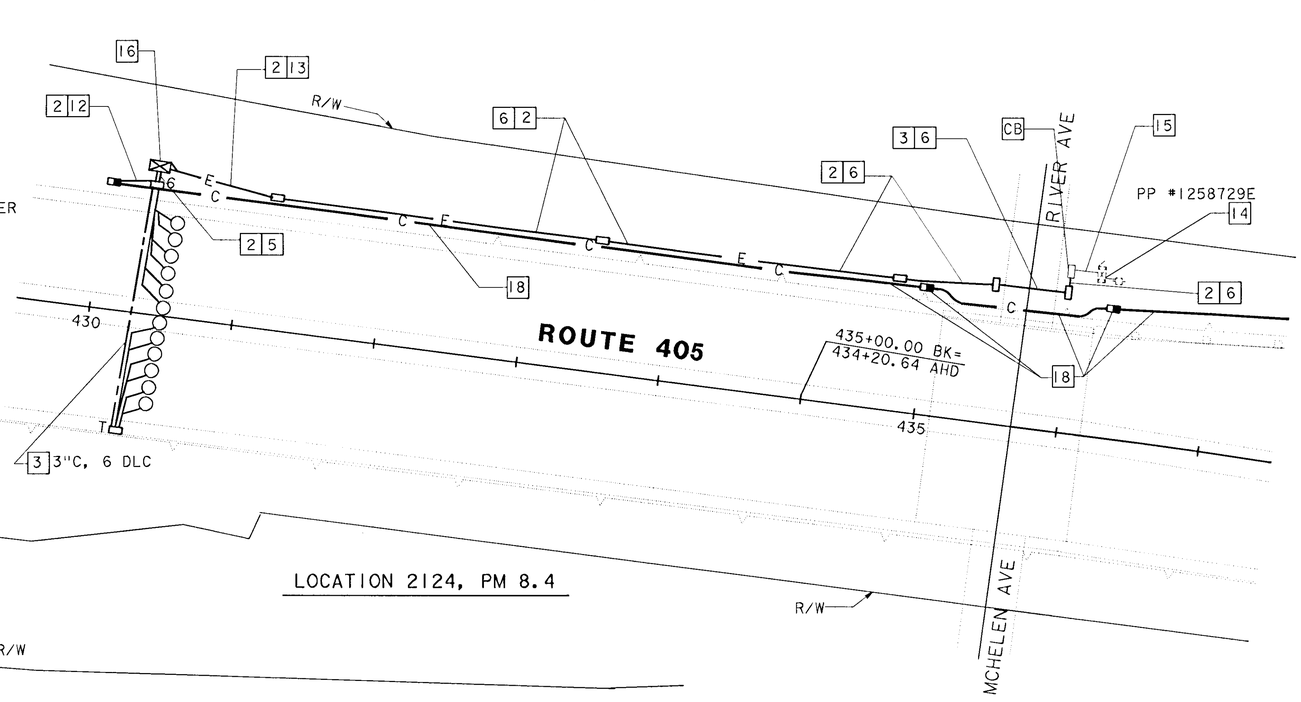

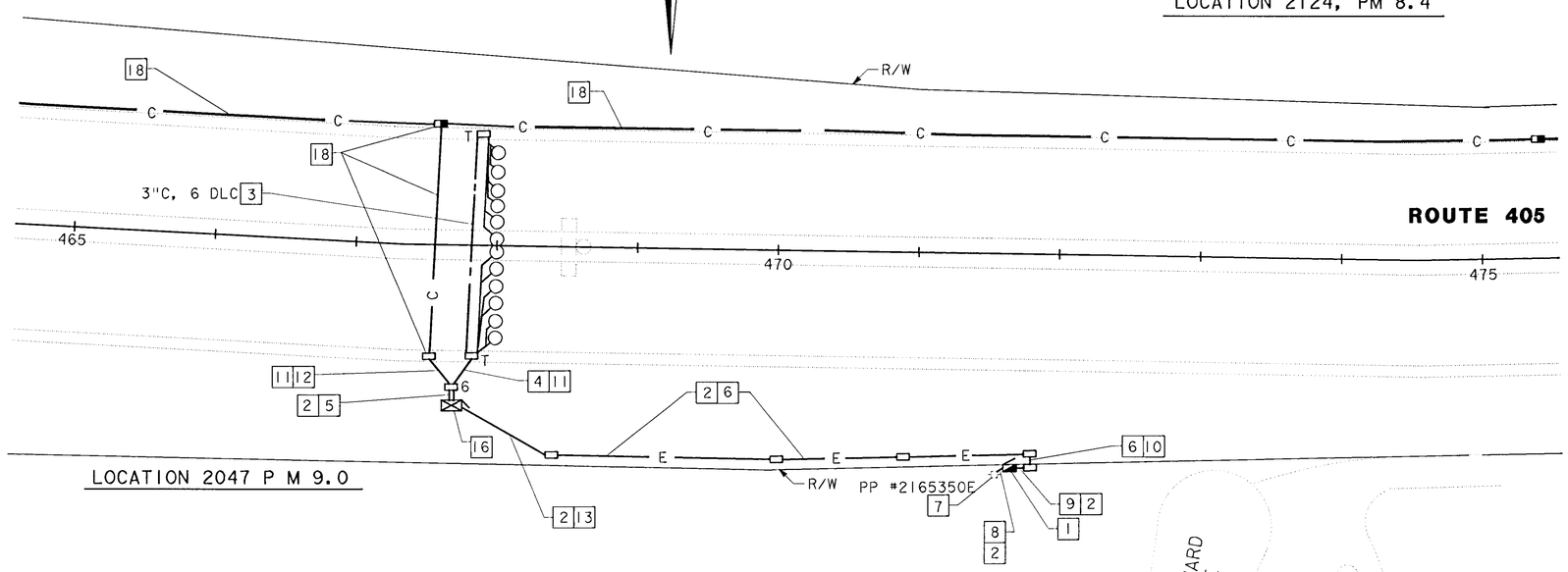

CONDUIT RISER PLACEMENT

N - NW QUADRANT
PP #2165350E

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

TRAFFIC MONITORING STATION
(LOCATIONS 2047 & 2124)

SCALE: 1" = 50'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-50

PROJECT MANAGER: PAT SULLIVAN
CALCULATED/DESIGNED BY:
CHECKED BY:
DATE REVISED BY:
DATE REVISED:
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => 21-Dec-1996

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trtome
DGN FILE => [ESC-OE]712082u50.psf

CU 07396

EA 120821

NOTE: (THIS SHEET ONLY)

1. MODIFY EXISTING SERVICE EQUIPMENT ENCLOSURE TO ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR TRAFFIC MONITORING STATION PP#4243451E.
2. TRENCH CONDUIT IN SOIL.
3. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
4. INSTALL 1 1/2"C, 6P22.
5. INSTALL 2-3"C, 6P22, 10 DLC.
6. INSTALL 2"C, 2#6.
7. INSTALL 1 1/2"C, 2#6.
8. ADD 2#6 IN EXISTING CONDUIT.
9. INSTALL 2"C, 10 DLC.
10. INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY. SEE SHEET C-1, DETAIL A.
11. LOCATION OF PULL BOXES CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INTALLATIONS.
12. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS. SEE SHEET E-13.
13. SEE SHEET E-54 FOR TMS INSTALLATION DETAILS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	108	164

Pat Sullivan
REGISTERED CIVIL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PAT SULLIVAN No. 30912 Exp. 3/31/96 CIVIL — STATE OF CALIFORNIA

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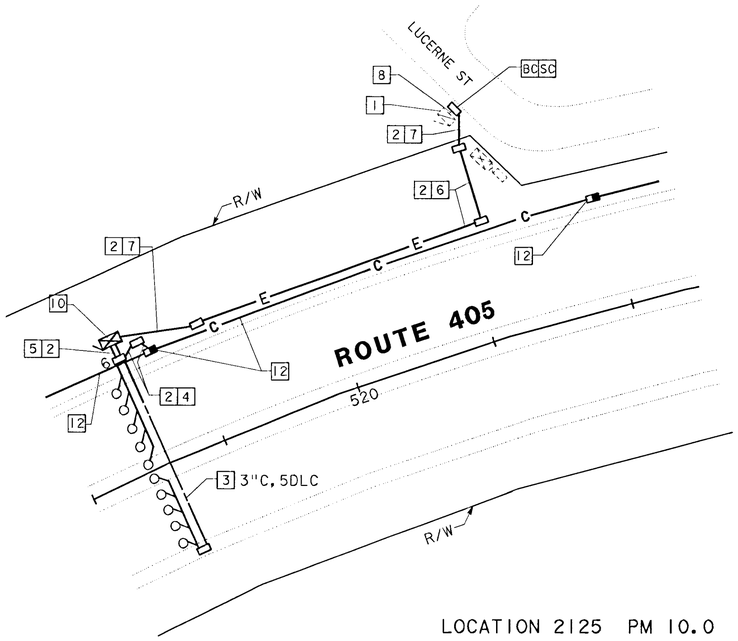
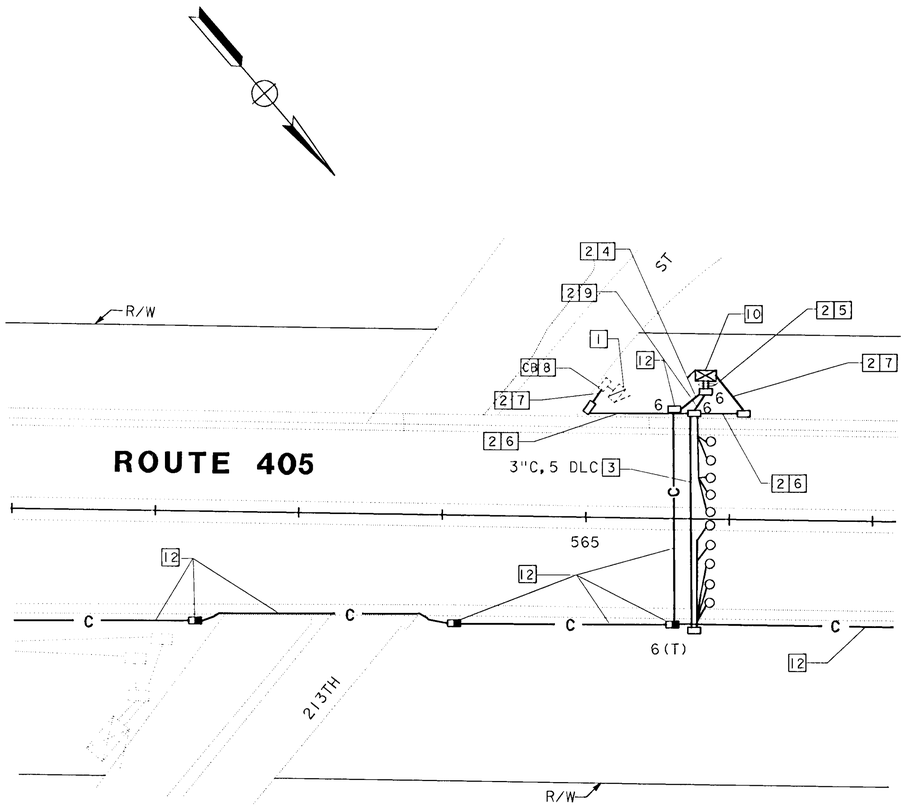


LOCATION 2125 PM 10.0



LOCATION 2046 P.M. 10.9

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

TRAFFIC MONITORING STATION
(LOCATION 2125 & 2046)

SCALE: 1"=50'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-51

DATE REVISED | DATE | REVISED BY | CALCULATED/ DESIGNED BY | CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
PROJECT ENGINEER PAT SULLIVAN

LAST REVISION 09-27-95
TIME PLOTTED => 21-Dec-1996

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => trtome
DGN FILE => [ESC-OE]712082u51.psf
CU 07396
EA 120821

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	109	164

Pat Sullivan
REGISTERED CIVIL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAT SULLIVAN
No. 30912
Exp. 3/31/96
CIVIL
STATE OF CALIFORNIA

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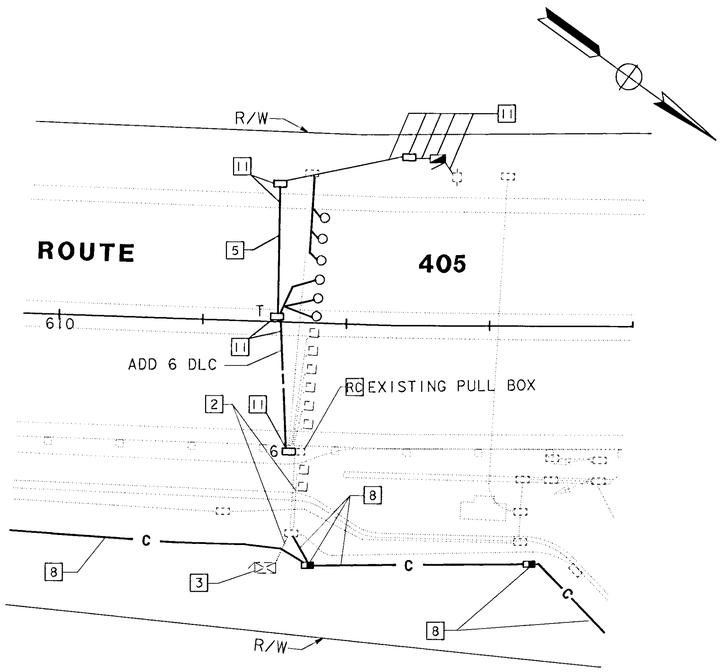
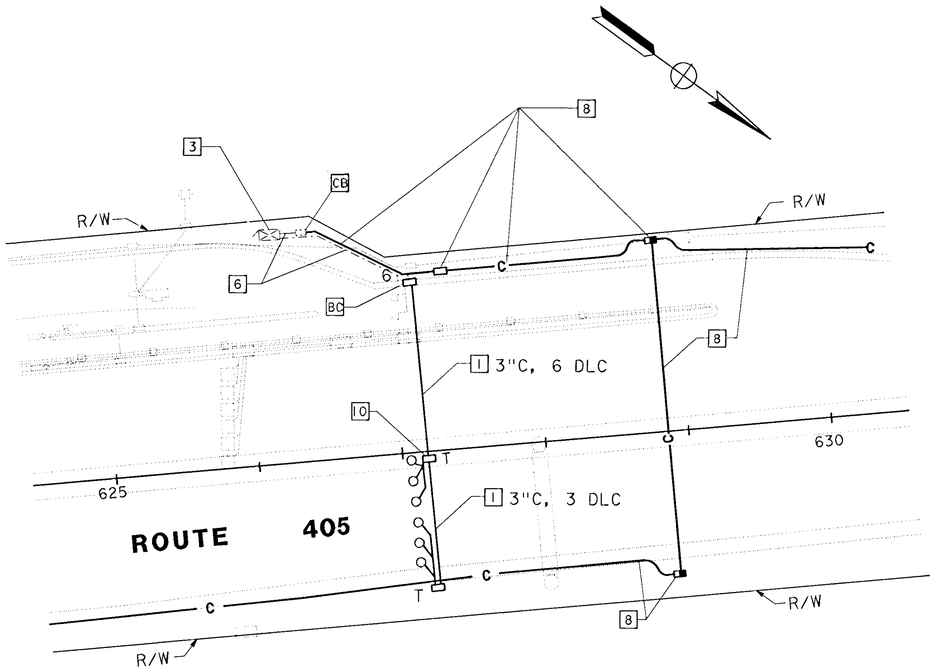
NOTE: (THIS SHEET ONLY)

1. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
2. EXISTING CONDUIT, REMOVE EXISTING 6 DLC, INSTALL NEW 12 DLC.
3. INSTALL SIX LOOP SENSOR/DC ISOLATION UNITS IN EXISTING CABINET AND CONNECT DLC CABLES.
4. CORE DRILL THOUGH CONCRETE TO EXISTING PULL BOX BEHIND SOUNDWALL, SEE SHEET C-11.
5. EXISTING 2"C, INSTALL NEW 6 DLC.
6. EXISTING CONDUIT, INSTALL NEW 6 DLC.
7. LOCATION OF PULL BOXES CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INTALLATIONS.
8. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS. SEE SHEET E-13.
9. SEE SHEET E-54 FOR TMS INSTALLATION DETAILS.
10. PLACE NUMBER 5 TRAFFIC PULL BOX AS CLOSE TO MEDIAN BARRIER AS POSSIBLE.
11. INCLUDED IN CCTV CAMERA, EQUIPMENT AT DATA NODE AND EQUIPMENT AT VIDEO NODE PLAN. SEE SHEET E-34.



LOCATION 2045, P.M. 11.6



LOCATION 2044 P.M. 11.9

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

TRAFFIC MONITORING STATION (MODIFIED) (LOCATIONS 2045 & 2044)

SCALE: 1"=50'

E-52

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT ENGINEER
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

LAST REVISION 12-13-95
TIME PLOTTED => 21-Dec-1996

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trtome
DGN FILE => [ESC-OE]712082u52.psf

CU 07396

EA 120821

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u53.dgn DATE: Fri Apr 13 2001 TIME: 11:14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 110, 405	Var	110	164

Pat Sullivan
REGISTERED CIVIL ENGINEER

12-16-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAT SULLIVAN
No. C30912
Exp. 3/31/96
CIVIL
STATE OF CALIFORNIA

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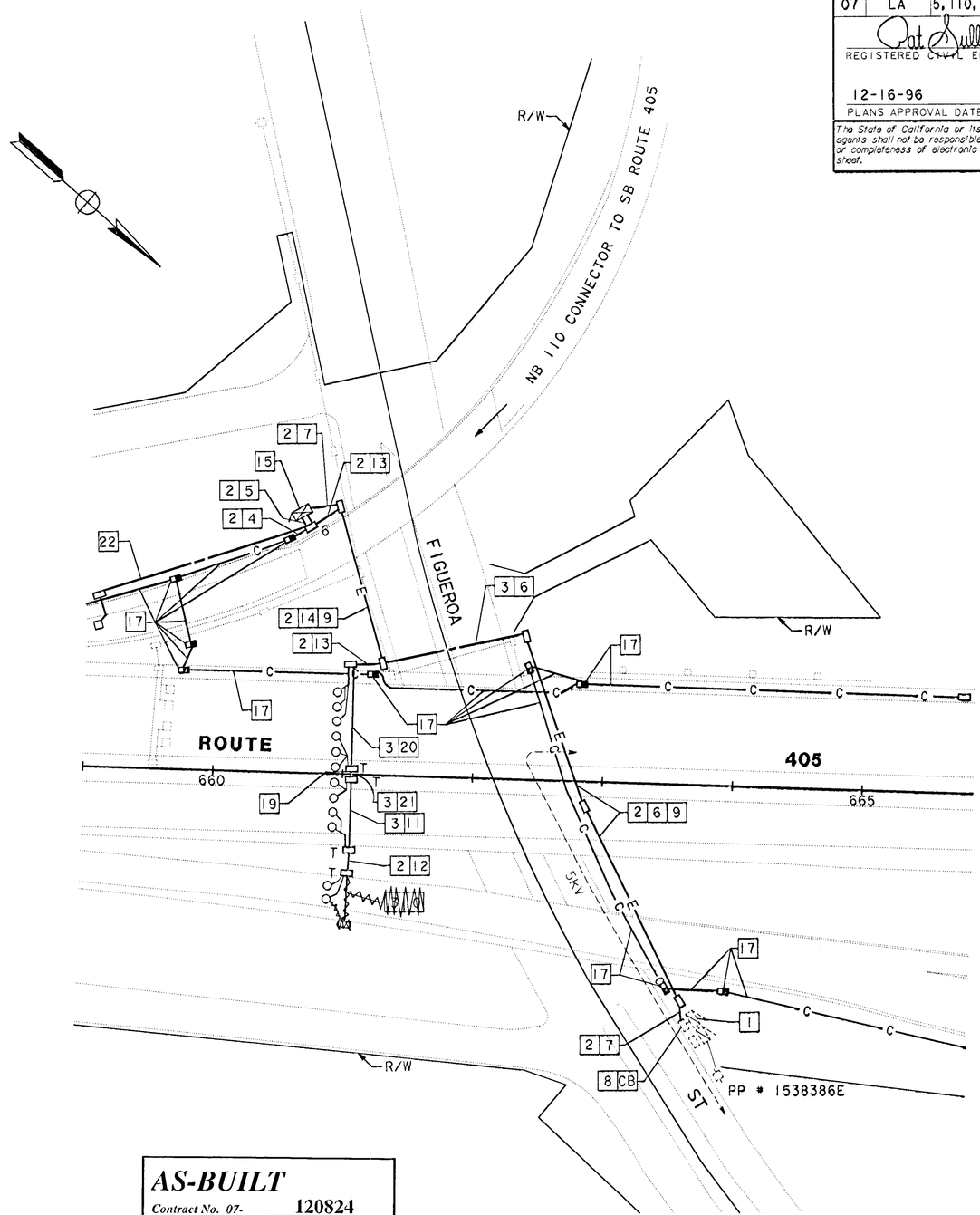
NOTES: (THIS SHEET ONLY)

1. MODIFY EXISTING SERVICE EQUIPMENT ENCLOSURE TO ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR TRAFFIC MONITORING STATION.
2. TRENCH CONDUIT IN SOIL.
3. JACK RIGID STEEL CONDUIT BENEATH ROADWAY
4. INSTALL 1½"C, 6P22.
5. INSTALL 2-3"C, 6P22, 13 DLC.
6. INSTALL 2"C, 2#6.
7. INSTALL 1½"C, 2#6.
8. ADD 2#6 IN EXISTING CONDUIT.
9. TRENCH CONDUIT SOIL BENEATH OVERPASS WITHIN CALTRANS RIGHT-OF-WAY.
10. INSTALL 3"C, 1 DLC.
11. INSTALL 3"C, 4 DLC.
12. INSTALL 2"C, 2 DLC.
13. INSTALL 2"C, 12 DLC.
14. INSTALL 2½"C, 2#6, 12 DLC.
15. INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY. SEE SHEET C-1, DETAIL A.
16. LOCATION OF PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATIONS.
17. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS. SEE SHEET E-16.
18. SEE SHEET E-54 FOR TMS INSTALLATION DETAILS.
19. PLACE No. 5 TRAFFIC PULL BOX AS CLOSE TO MEDIAN BARRIER AS POSSIBLE.
20. INSTALL 3"C, 9 DLC.
21. INSTALL 1½"C, 6 DLC.
22. INSTALL 1½"C, 1 DLC.



DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

PROJECT MANAGER
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

AS-BUILT
Contract No. 07- 120824
Resident Engineer: NGUYEN, L.
Completion Date: 06/29/2000

TRAFFIC MONITORING STATION
(LOCATION 2264)
SCALE: 1"=50'

E-53

NOTE : THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712082u5313111257

CU 07396

EA 120821

LAST REVISION TIME PLOTTED => 13-Apr-2001

USER ID: HHuynh@T7NT6044 FILE: f:\projects\120821_ug\ab\712082u53.dgn DATE: Fri Apr 13 2001 TIME: 11:14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	45	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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PROJECT NOTES: (FOR SHEETS E-2 TO E-21)

1. TRENCH AND INSTALL CONDUIT IN ASPHALT.
2. TRENCH AND INSTALL CONDUIT IN CONCRETE.
3. TRENCH AND INSTALL CONDUIT IN SOIL.
4. ATTACH CONDUIT TO STRUCTURE. SEE SHEET C-4 FOR BRIDGE ATTACHMENT TYPE AND DETAILS.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. COIL 30 FEET OF 6P22 CABLE IN NEW PULL BOX FOR FUTURE COUNT STATION CONTROLLER.
7. TERMINATE TWISTED PAIR CABLE AND COIL 60 FEET IN SPLICE VAULT.
8. CONNECT 6P22 TO CONTROLLER. USE CONDUIT FROM PB INTO CABINET.
9. TERMINATE 12SMFO CABLE AND COIL 60 FEET IN SPLICE VAULT.
10. LOCATE SPLICE VAULT 17 FEET FROM EXISTING SHOULDER FOR ANTICIPATED HOV EXPANSION.
11. COIL 25 FEET 75P22 CABLE IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.
12. COIL 25 FEET 12SMFO CABLE IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.
13. COIL 25 FEET 24SMFO CABLE IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.
14. LOCATE 6(E) PB 15 FEET FROM EXISTING SHOULDER FOR ANTICIPATED HOV EXPANSION.
15. LOCATE 6(T) PB AS CLOSE TO SOUND WALL BASE AS POSSIBLE FOR ANTICIPATED HOV EXPANSION.
16. COIL 30 FEET OF 6P22 CABLE IN NEW PB FOR IRRIGATION CONTROLLER CONNECTION.
17. COIL 30 FEET OF 6P22 CABLE IN NEW PB FOR TRAFFIC SIGNAL CONTROLLER.
18. CORE DRILL THROUGH SOUND WALL TO NEWLY LOCATED PULL BOX BEHIND SOUND WALL. SEE SHEET C-7.
19. LOCATE PULL BOX OFF THE PAVED SHOULDER OF THE FREEWAY IN SOIL SURFACE.
20. COIL 100 FEET OF 6P22 AND 2SMFO B/O CABLE FOR ANTICIPATED CAMERA LOCATION.
21. INSTALL TWISTED PAIR SPLICE CLOSURE ONLY.
22. MAINTAIN EXISTING DIAL-UP TELEPHONE SERVICE CABLE BETWEEN TELEPHONE SERVICE POINT AND CONTROLLER CABINET.
23. INSTALL TYPE A DETECTOR.
24. INSTALL 2"C, 1-DLC.
25. ADD 1-DLC IN EXISTING CONDUITS TO RAMP METER CONTROLLER.
26. INSTALL CONDUITS IN SAME TRENCH.
123. INSTALL 120/240V, 3-WIRE (METERED) TYPE III - BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR TRAFFIC COUNT STATION.
124. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENT. (CONDUCTORS BY OTHERS).

ABBREVIATIONS:

B/O	- BREAK OUT
CCR	- CAMERA CONTROL RECEIVER
CCTV	- CLOSED CIRCUIT TELEVISION
COMM	- COMMUNICATION
DACCS	- DIGITAL ACCESS CROSS CONNECTION SYSTEM
DEMARC	- DEMARCATION
DEMUX	- DEMULTIPLEX
DWP	- LA DEPARTMENT OF WATER AND POWER
E/O	- ELECTRIC TO OPTIC
GTE	- GENERAL TELEPHONE AND ELECTRIC
HAR	- HIGHWAY ADVISORY RADIO
JKFD	- JACKFIELD
MUX	- MULTIPLEX
OW	- ORDER WIRE(MULTIPLE VOICE CIRCUIT)
O/E	- OPTICAL TO ELECTRIC
PAC BELL	- PACIFIC BELL TELEPHONE COMPANY
PT&T	- PACIFIC TELEPHONE AND TELEGRAPH
RX	- RECEIVER
SD	- SAN DIEGO
SCE	- SOUTHERN CALIFORNIA EDISON
SCGS	- SOUTHERN CALIFORNIA GAS COMPANY
SCWC	- SOUTHERN CALIFORNIA WATER COMPANY
SM	- SINGLEMODE
SMFO	- SINGLEMODE FIBER OPTIC
T	- TERMINATE
TX	- TRANSMITTER
VMX	- VIDEO MULTIPLEXER
VX	- VIDEO TRANSMITTER

GENERAL NOTES:

1. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE IN WRITING TO THE ENGINEER.
2. SERVICE EQUIPMENT ENCLOSURE SHALL BE LOCATED 10' MINIMUM FROM THE POWER POLE OR VAULT.
3. ELECTRICAL SERVICE INSTALLATION SHALL MEET THE REQUIREMENTS OF EITHER SOUTHERN CALIFORNIA EDISON COMPANY(SCE)OR LOS ANGELES DEPARTMENT OF WATER AND POWER(DWP).
4. CONDUCTORS FROM POWER POLE(OR VAULT)TO SERVICE ENCLOSURE WILL BE INSTALLED BY UTILITY COMPANY.
5. TRENCH FOR CONDUIT INSTALLATION BETWEEN POWER POLE(OR VAULT) AND SERVICE ENCLOSURE SHALL BE LEFT OPEN FOR INSPECTION AND APPROVAL BY SCE OR DWP INSPECTOR BEFORE BACKFILL.
6. STENCIL CAMERA IDENTIFICATION NUMBER ON POLE IN 3" CHARACTERS 10 FEET ABOVE BASE. SEE SHEET K1 AND K2.
7. GIVEN STATIONS ARE APPROXIMATE,EXACT EQUIPMENT AND POLE LOCATIONS TO BE DETERMINED BY ENGINEER.

LEGEND

	CCTV ASSEMBLY CAMERA AND POLE
	CCTV CAMERA POLE LOCATION
	SPLICE VAULT
	EXISTING SPLICE VAULT
	EXISTING CONTROLLER TO BE TIED TO COMMUNICATION SYSTEM
	MODEL 170 IN 334 CABINET(RAMP METERING)
	334 TV CABINET
	CABLE NODE CABINET (334-TV)
— — E — —	PROPOSED POWER SERVICE CONDUIT
— — e — —	EXISTING POWER SERVICE CONDUIT
	PROPOSED RAMP METER SIGNALS
	EXISTING DETECTOR LOOPS
	PROPOSED DETECTOR LOOPS
PP#XXX	POWER POLE NUMBER
XXSMFO	SINGLEMODE FIBER OPTIC CABLE SEE SHEET E-81 TO E-83 FOR ASSIGNMENT
XXP22	XX PAIR COPPER TELEPHONE CABLE SEE SHEET E-69 THROUGH E-76 FOR ASSIGNMENT
SDXXX	CCTV IDENTIFICATION NUMBER: (SD = SAN DIEGO; XXX = POST MILE DESIGNATOR TO ONE DECIMAL PLACE)
15	TYPE 15 PULL BOX

AS-BUILT
Contract No. 07- 120834
Resident Engineer:
Completion Date: 09/27/1999

LEGEND AND NOTES

E-1

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DATE	REVISED BY
PAT SULLIVAN	CHECKED BY	6/94	DATE REVISED
	RL	CF	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => 14-JAN-1995 07:08

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => mikesl
DGN FILE => /usr/mikesl/PI/712083u01.dg
CU 07374
EA 120831

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u02.dgn DATE: Tue May 23 2000 TIME: 14:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	46	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

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DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

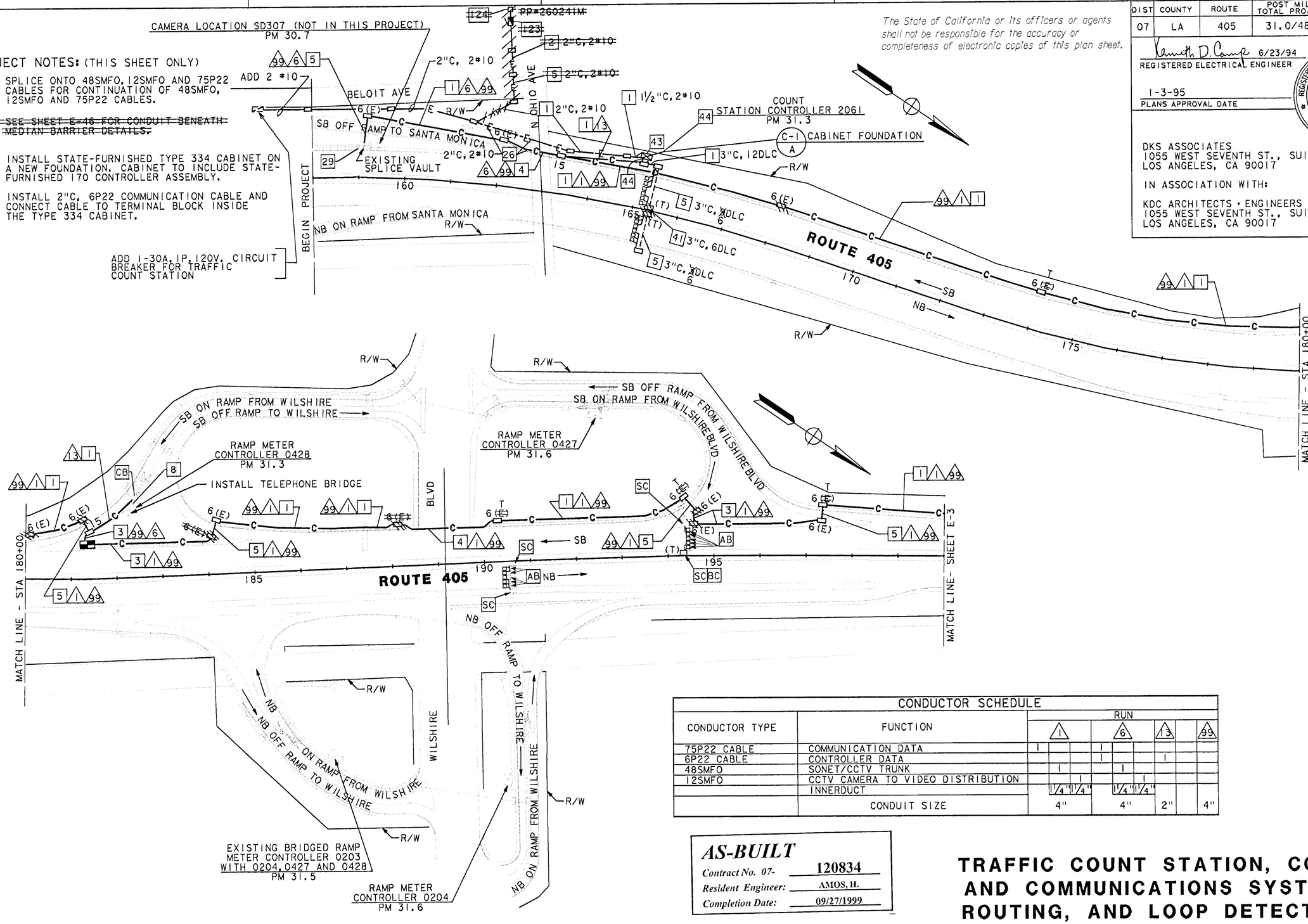
PROJECT NOTES: (THIS SHEET ONLY)

29 SPLICE ONTO 48SMFO, 12SMFO AND 75P22 CABLES FOR CONTINUATION OF 48SMFO, 12SMFO AND 75P22 CABLES.

~~41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE TYPE 334 CABINET.



CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 6	RUN 13		RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1			
6P22 CABLE	CONTROLLER DATA		1	1		
48SMFO	SONET/CCTV TRUNK	1	1			
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1	1			
	INNERDUCT	1 1/4" 1 1/4"	1 1/4" 1 1/4"			
	CONDUIT SIZE	4"	4"	2"		4"

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

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

TRAFFIC COUNT STATION, CCTV AND COMMUNICATIONS SYSTEM ROUTING, AND LOOP DETECTOR

SCALE: 1" = 100'

E-2

CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
CHECKED BY	RL 10/93	RS 12/93	MZ 10/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT
PAT SULLIVAN

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120831

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u02.dgn DATE: Tue May 23 2000 TIME: 14:00

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u03.dgn DATE: Tue May 23 2000 TIME: 13:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	47	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 6	RUN 13	RUN	RUN 99
75P22 CABLE	COMMUNICATION DATA	1	1			
6P22 CABLE	CONTROLLER DATA	1	1	1		
48SMFO	SONET/CCTV TRUNK	1	1			
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1				
	INNERDUCT	1 1/4"	1 1/4"	1 1/4"		
	CONDUIT SIZE	4"	4"	2"		4"

PROJECT NOTES: (THIS SHEET ONLY)

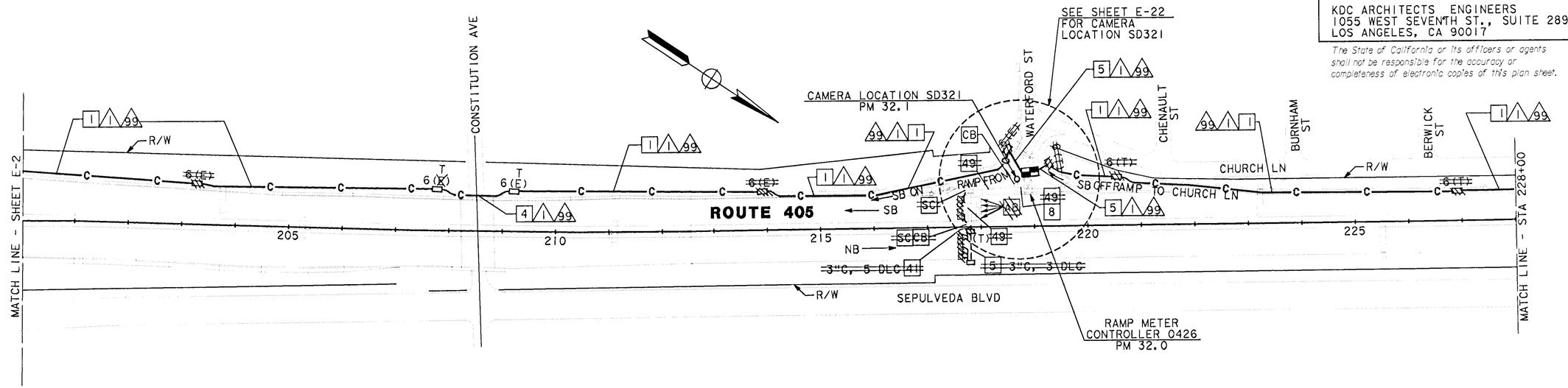
40 INSTALL 6(T) PULL BOX, (SEE DETAILS SHEET C-7).

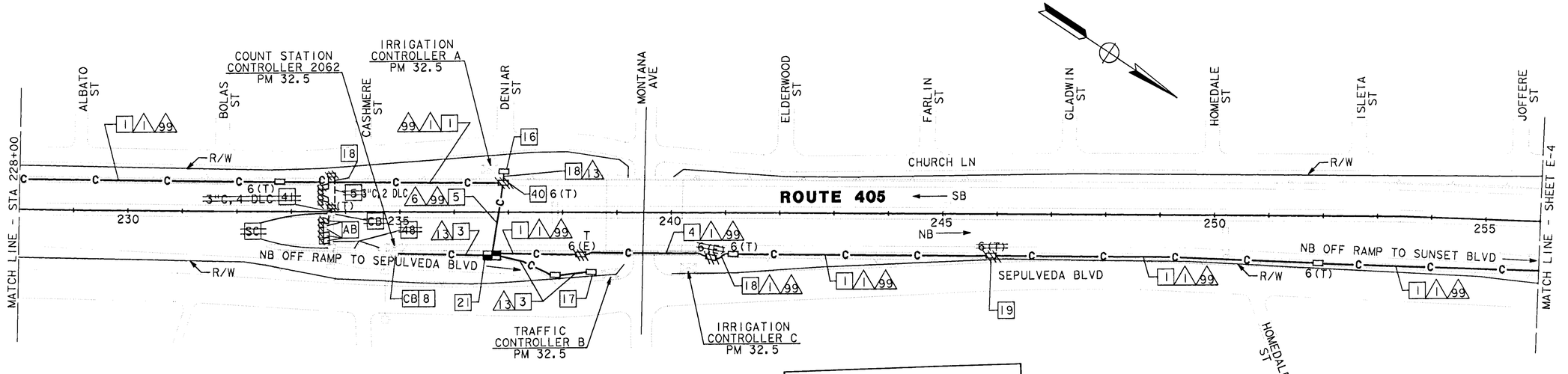
~~41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

~~48 ADD 4DLC IN EXISTING CONDUIT.~~

~~49 ADD 5DLC IN EXISTING CONDUIT.~~





AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-3

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

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DRAWN BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	RL	RS		10/93	MZ	10/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)
USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u03.dgn DATE: Tue May 23 2000 TIME: 13:59

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	6	7	13	18	19	20	31	99
75P22 CABLE	COMMUNICATION DATA	1	1	1						
6P22 CABLE	CONTROLLER DATA		1	2	1	3	4	4	1	
48SMFO	SONET/CCTV TRUNK	1	1	1						
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1	1						
2SMFO B/O CABLE	SHORT HAUL VIDEO					1	1	1		
	INNERDUCT	1 1/4"	1 1/4"	1 1/4"						
	CONDUIT SIZE	4"	4"	4"	2"	2"	4"	2"	4"	4"

PROJECT NOTES: (THIS SHEET ONLY)

30 INSTALL STATE-FURNISHED LOOP SENSOR.

~~41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

48 ADD 4DLC IN EXISTING CONDUIT.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	48	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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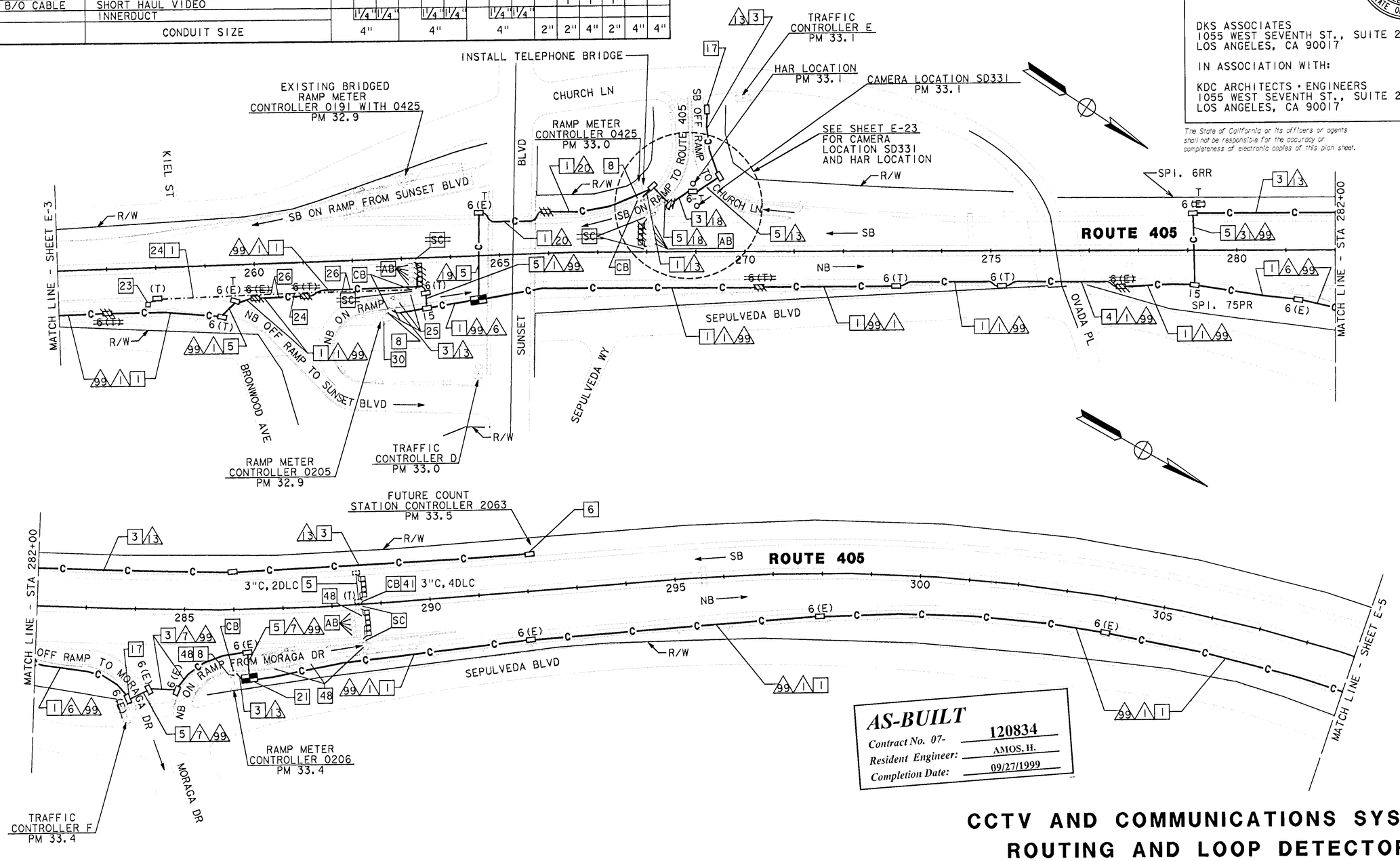

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-4

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

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	CHECKED BY	RL 10/93	MZ	10/94
		RS 12/93		

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USERNAME => $$$$$$USER$$$$$$
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CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

USER ID: t7aferna@NODE F.F: /project/120831_ua/ab/t7aferna/712083u05.dgn DATE: Tue May 23 2000 TIME: 13:58

CONDUCTOR SCHEDULE											
CONDUCTOR TYPE	FUNCTION	RUN									
		1			6		10	13	27	99	
75P22 CABLE	COMMUNICATION DATA	1			1						
50P22 CABLE	COMMUNICATION DATA						1		1		
6P22 CABLE	CONTROLLER DATA				1			1	1		
48SMFO	SONET/CCTV TRUNK	1			1		1		1		
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1			1		1				
	INNERDUCT	1/4"	1/4"		1/4"	1/4"	1/4"		1/4"	1/4"	
	CONDUIT SIZE	4"			4"		4"	2"	4"	4"	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	49	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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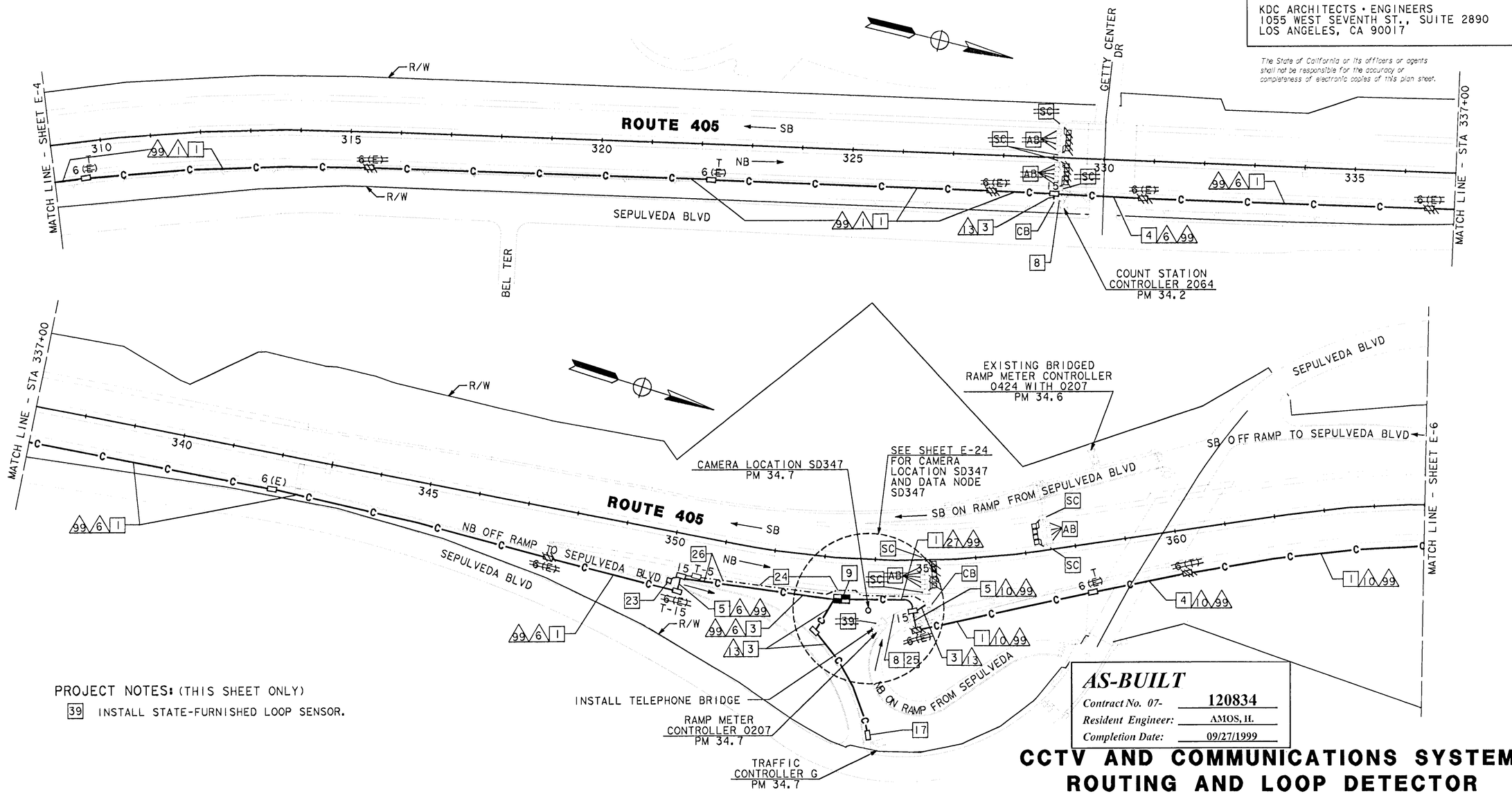

PROJECT NOTES: (THIS SHEET ONLY)

39 INSTALL STATE-FURNISHED LOOP SENSOR.

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

AS-BUILT

Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-5

DATE	REVISED BY
10/93	RL
12/93	RS
10/94	MZ

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FORM DC-OE-92-PF (REV. 3/88)

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120831

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u05.dgn DATE: Tue May 23 2000 TIME: 13:58

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u06.dgn DATE: Tue May 23 2000 TIME: 13:57

CONDUCTOR SCHEDULE												
CONDUCTOR TYPE	FUNCTION	RUN 10		13		39		50		51		99
50P22 CABLE	COMMUNICATION DATA	1				1				1		
6P22 CABLE	CONTROLLER DATA			1				1		2		
48SMFO	SONET/CCTV TRUNK		1				1		1		1	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION											1
2SMFO B/O CABLE	SHORT HAUL VIDEO											
	INNERDUCT	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	
	CONDUIT SIZE	4"		2"		4"		4"		4"		4"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	50	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

1-3-95
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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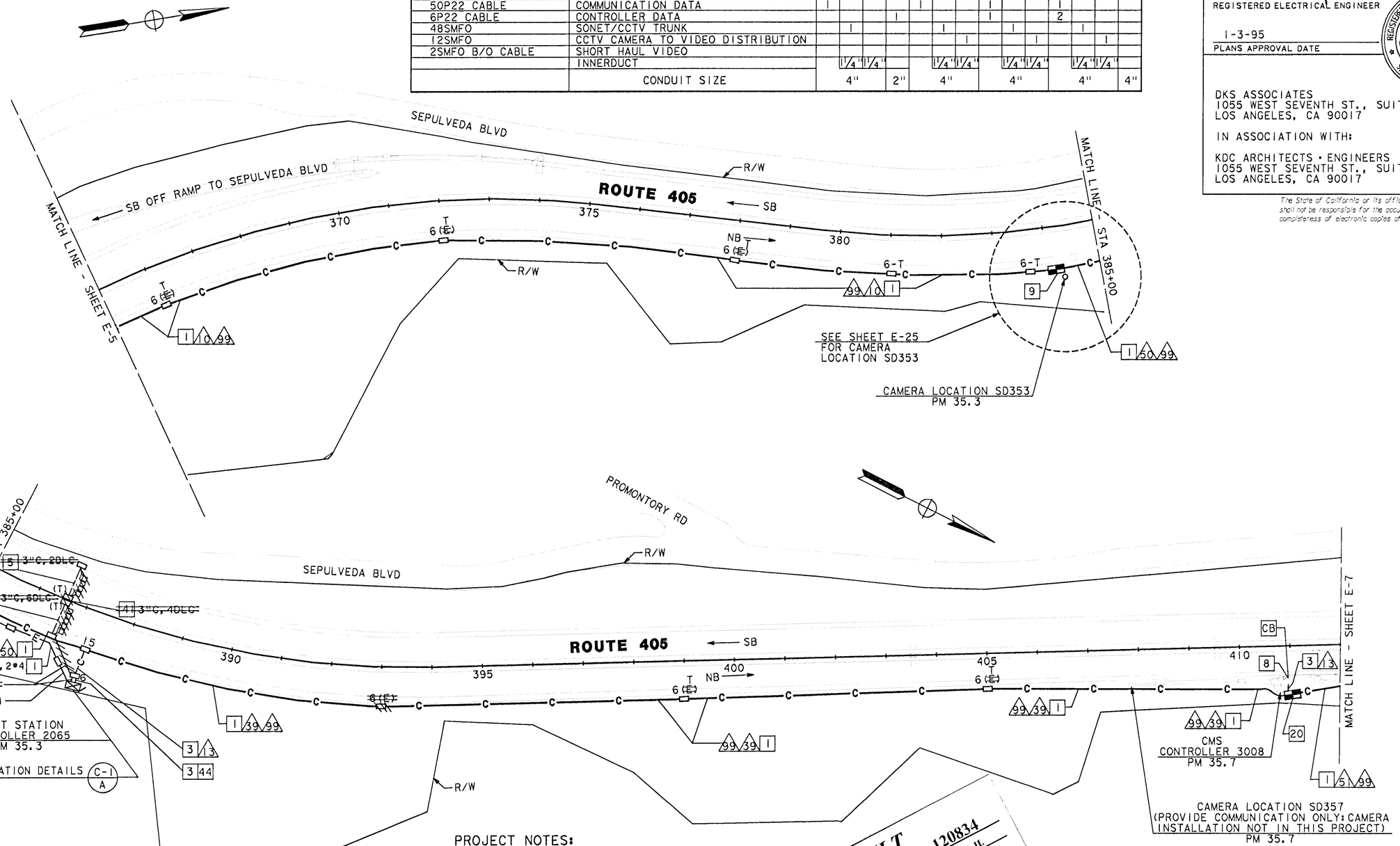

PROJECT NOTES:
(THIS SHEET ONLY)

41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE 334 CABINET.

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

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

TRAFFIC COUNT STATION AND CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

E-6

DESIGNED BY	CALCULATED/ DESIGNED BY	CHECKED BY	DRAWN BY	DESIGN OVERSIGHT
RL	RS		MZ	PAT SULLIVAN

DATE	REVISED BY	DATE REVISED
10/93		10/94
12/93		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$$SYTIME$$$$$$

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u06.dgn DATE: Tue May 23 2000 TIME: 13:57

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u07.dgn DATE: Tue May 23 2000 TIME: 13:56

CONDUCTOR SCHEDULE														
CONDUCTOR TYPE	FUNCTION	RUN												
		13	14	39			50			51			99	
50P22 CABLE	COMMUNICATION DATA			1			1			1				
6P22 CABLE	CONTROLLER DATA	1	2				1			2				
48SMFO	SONET/CCTV TRUNK			1			1			1				
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION													
	INNERDUCT			1/4"1/4"1/4"			1/4"1/4"1/4"			1/4"1/4"1/4"				
	CONDUIT SIZE	2"	2"	4"			4"			4"			4"	

PROJECT NOTES: (THIS SHEET ONLY)

33 USE CONDUIT FROM PB INTO CABINET TO CONNECT ONE 6P22 TO DISTRICT EQUIPMENT IN CABINET. CONNECT OTHER 6P22 FROM BRIDGED ELEMENT TO TERMINAL BLOCK INSIDE CABINET. COIL 25 FEET OF THE OTHER 6P22 IN EXISTING PB FOR THE STATE EQUIPMENT.

~~41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT TO TERMINAL BLOCK INSIDE THE 334 CABINET.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	51	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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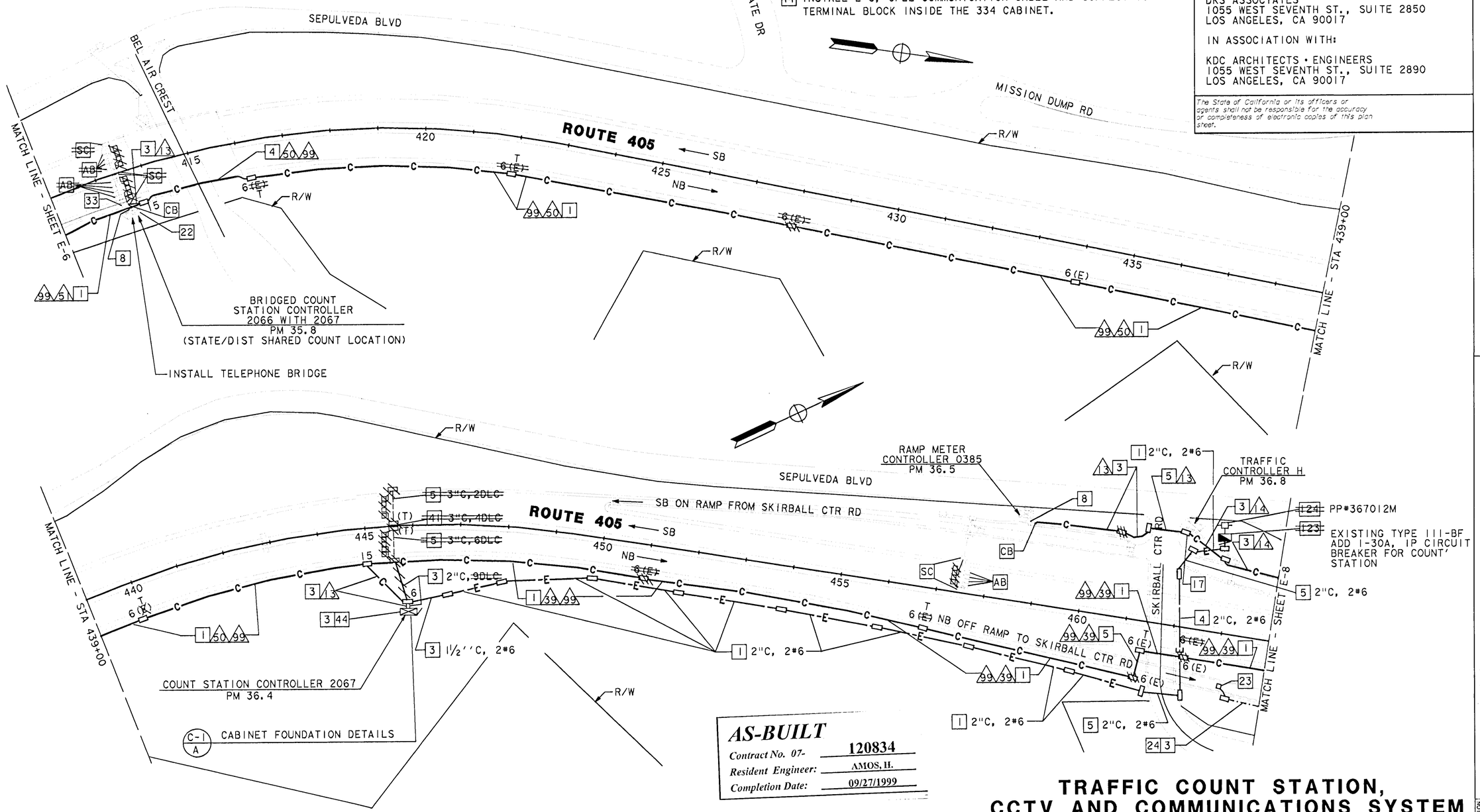

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

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

TRAFFIC COUNT STATION, CCTV AND COMMUNICATIONS SYSTEM ROUTING, AND LOOP DETECTOR

SCALE: 1" = 100'

E-7

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	CHECKED BY	RL 10/93	RS 12/93	MZ 10/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 TIME PLOTTED =>\ $$$$$$SYSTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

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USERNAME => $$$$$$USER$$$$$$
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CU 07374

EA 12083[illegible]

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u07.dgn DATE: Tue May 23 2000 TIME: 13:56

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u08.dgn DATE: Tue May 23 2000 TIME: 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	52	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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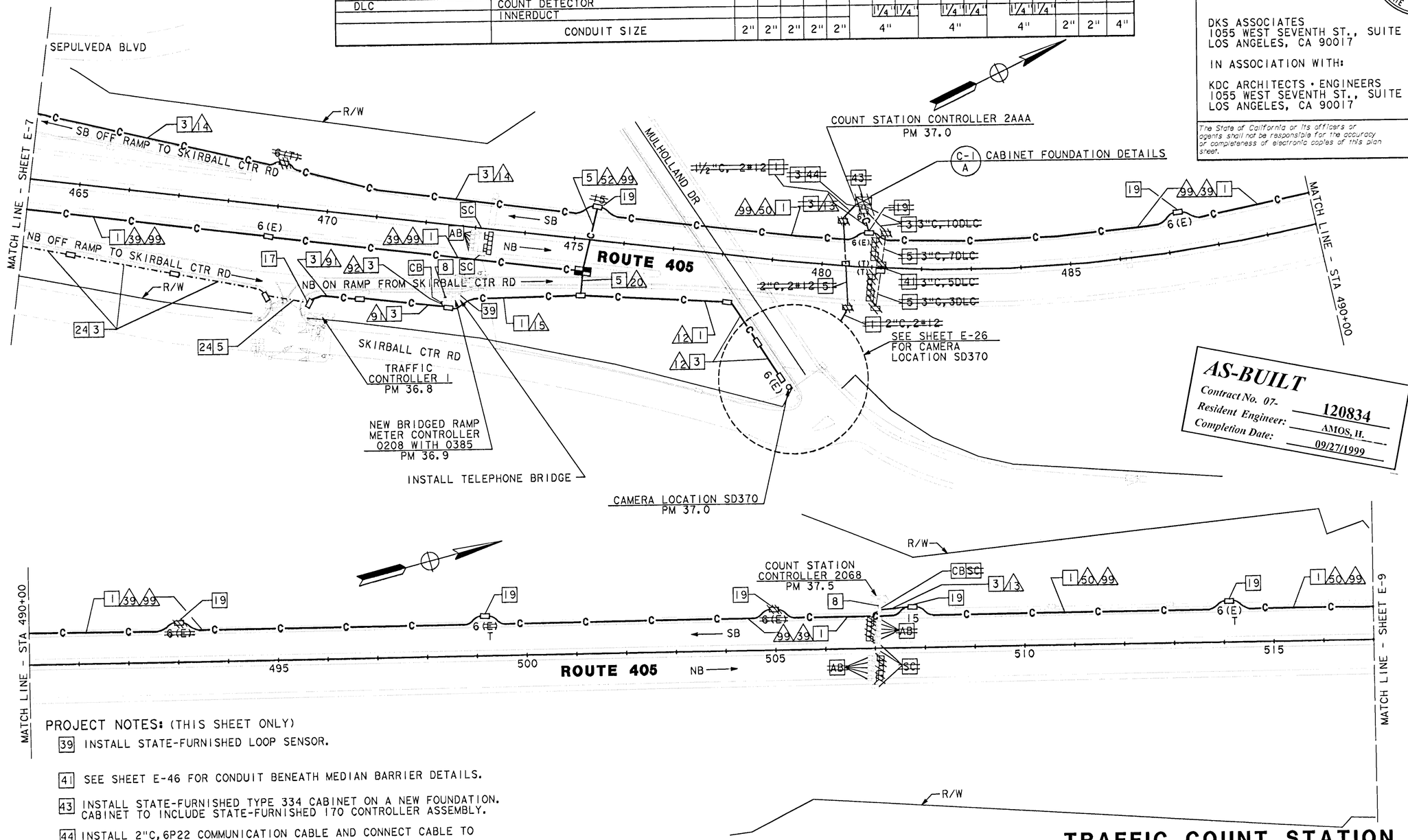
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN /2	/3	/4	/9	/20	39			/50			/52			/91	/92	/99
50P22 CABLE	COMMUNICATION DATA						1			1			1					
6P22 CABLE	CONTROLLER DATA	1	1	2	3	4							3			1	2	
48SMFO	SONET/CCTV TRUNK						1			1			1					
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION							1			1			1				
2SMFO B/O CABLE	SHORT HAUL VIDEO	1				1												
DLC	COUNT DETECTOR															1	1	
	INNERDUCT						1/4"	1/4"		1/4"	1/4"		1/4"	1/4"				
	CONDUIT SIZE	2"	2"	2"	2"	2"	4"			4"			4"			2"	2"	4"



PROJECT NOTES: (THIS SHEET ONLY)

39 INSTALL STATE-FURNISHED LOOP SENSOR.

41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C,6P22 COMMUNICATION CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE 334 CABINET.

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

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

TRAFFIC COUNT STATION, CCTV AND COMMUNICATIONS SYSTEM ROUTING, AND LOOP DETECTOR E-8

SCALE: 1" = 100'

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	RL	RS	10/93	MZ	10/94
PAT SULLIVAN			12/93		

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYTIME$$$$$$

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u08.dgn DATE: Tue May 23 2000 TIME: 13:55

USER ID: t7aferno@NODE FILE: /project/120831_ua/ab/t7aferna/712083u09.dgn DATE: Tue May 23 2000 TIME: 13:54

PROJECT NOTES: (THIS SHEET ONLY)

~~47 ADD 2 DLC IN EXISTING CONDUIT.~~

~~49 ADD 5 DLC IN EXISTING CONDUIT.~~

CONDUCTOR SCHEDULE												
CONDUCTOR TYPE	FUNCTION	RUN										
		13	14	39		50		51		99		
50P22 CABLE	COMMUNICATION DATA			1		1		1				
6P22 CABLE	CONTROLLER DATA	1	2					2				
48SMFO	SONET/CCTV TRUNK			1		1		1				
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION			1		1		1				
	INNERDUCT			1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"			
	CONDUIT SIZE	2"	2"	4"		4"		4"		4"		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	53	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

1-3-95
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS. ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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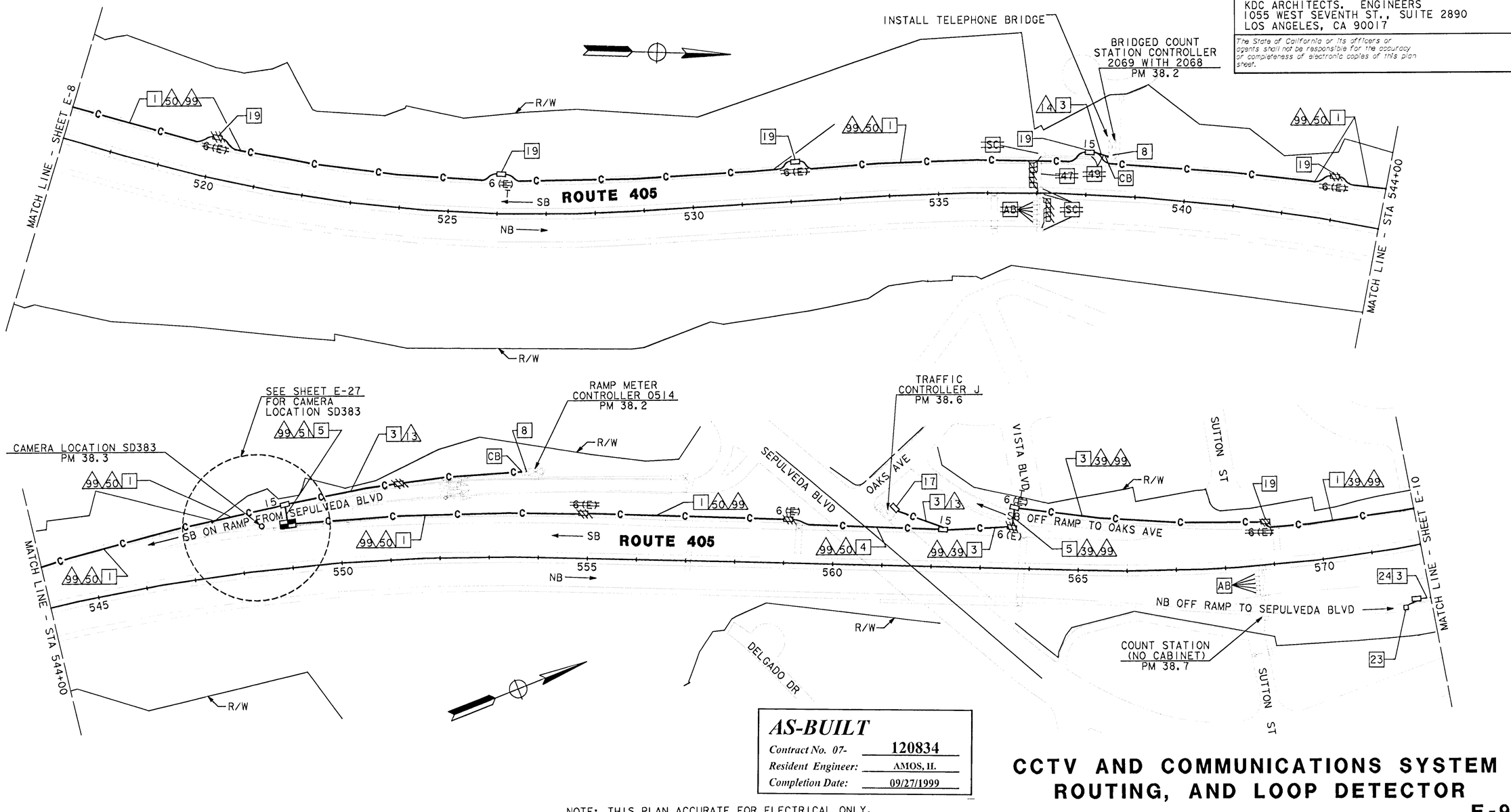

AS-BUILT

Contract No. 07- 120834

Resident Engineer: AMOS, H.

Completion Date: 09/27/1999

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING, AND LOOP DETECTOR

SCALE: 1" = 100'

E-9

DATE	REVISED BY	DATE REVISED
10/93	RL	12/93 RS
	CALCULATED/ DESIGNED BY	CHECKED BY
	MZ	10/94

DESIGN OVERSIGHT — PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => $$$$$$SYSTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

USER ID: t7aferno@NODE FILE: /project/120831_ua/ab/t7aferna/712083u09.dgn DATE: Tue May 23 2000 TIME: 13:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	54	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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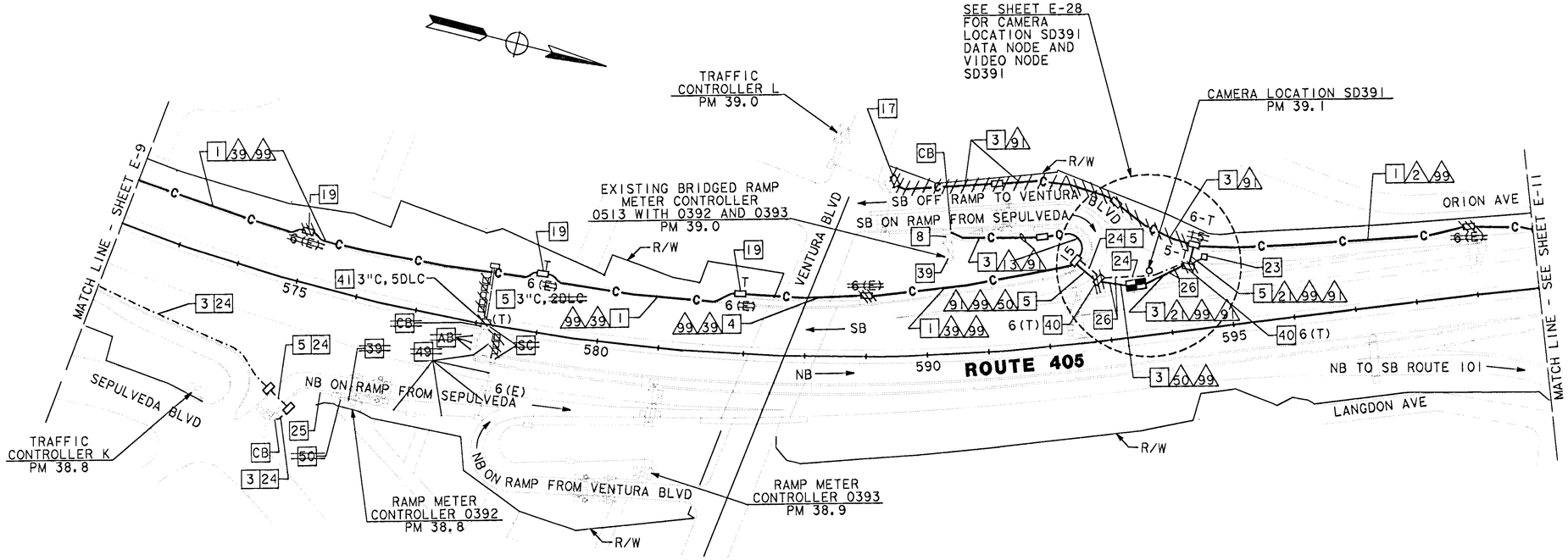
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 2	13	21	39	50	99	91
75P22 CABLE	COMMUNICATION DATA	1		1		1		
50P22 CABLE	COMMUNICATION DATA		1		1			1
6P22 CABLE	CONTROLLER DATA		1	1				
48SMFO	SONET/CCTV TRUNK	1		1		1		
36 ~~24~~SMFO	~~DATA/VIDEO NODE TO HUB TRUNK~~ SPARE	1		1		1		
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1		1			
DLC	COUNT DETECTOR		1					
	INNERDUCT	1 1/4" 1 1/4"		1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"		
	CONDUIT SIZE	4"	2"	4"	4"	4"	4"	2"

PROJECT NOTES: (THIS SHEET ONLY)

~~39 INSTALL STATE-FURNISHED LOOP SENSORS.~~
~~40 INSTALL 6(T) PULL BOX, (SEE DETAILS SHEET C-7).~~
~~41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~
~~49 ADD 5 DLC IN EXISTING CONDUIT.~~
~~50 ADD 6 DLC IN EXISTING CONDUIT.~~



AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-10

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

DATE	REVISED BY	DATE REVISED
10/93	RL	12/93 RS

CALCULATED/DESIGNED BY: MZ 10/94
CHECKED BY:

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$$SYTIME$$$$$$$

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USERNAME => $$$$$$USER$$$$$$
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CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u11.dgn DATE: Tue May 23 2000 TIME: 13:08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	55	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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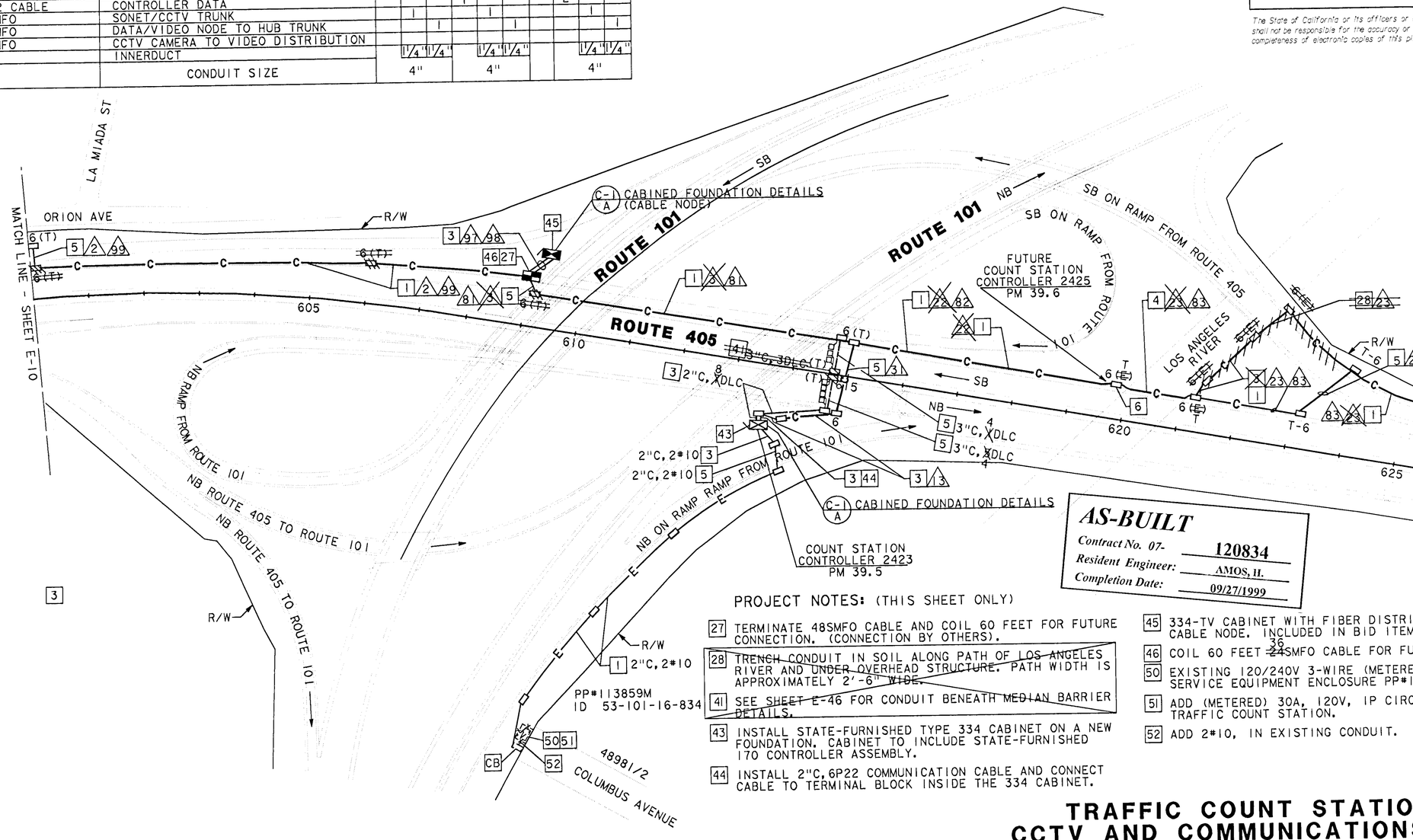
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 2	3	13	22	23	31	99	97	98
75P22 CABLE	COMMUNICATION DATA	1	1		1	2				
6P22 CABLE	CONTROLLER DATA			1					2	
48SMFO	SONET/CCTV TRUNK	1	1			1			1	
~~36~~24SMFO	DATA/VIDEO NODE TO HUB TRUNK									
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION									
	INNERDUCT	1-1/4"	1-1/4"		1-1/4"	1-1/4"			1-1/4"	1-1/4"
	CONDUIT SIZE	4"	4"	2"	4"	4"	4"	4"	4"	4"

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 81	82		83
75P22 CABLE	COMMUNICATION DATA	1	1		
6P22 CABLE	CONTROLLER DATA				2
48SMFO	SONET/CCTV TRUNK	1	1		1
36SMFO	DATA/VIDEO NODE TO HUB TRUNK				
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION				
	INNERDUCT	1-1/4"	1-1/4"		1-1/4"
	CONDUIT SIZE	4"	4"		4"



AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

PROJECT NOTES: (THIS SHEET ONLY)

27 TERMINATE 48SMFO CABLE AND COIL 60 FEET FOR FUTURE CONNECTION. (CONNECTION BY OTHERS).

~~28 TRENCH CONDUIT IN SOIL ALONG PATH OF LOS ANGELES RIVER AND UNDER OVERHEAD STRUCTURE. PATH WIDTH IS APPROXIMATELY 2'-6" WIDE.~~

~~41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE 334 CABINET.

45 334-TV CABINET WITH FIBER DISTRIBUTION FRAME FOR CABLE NODE. INCLUDED IN BID ITEM "CABLE NODE".

46 COIL 60 FEET ~~24~~36SMFO CABLE FOR FUTURE CONNECTION.

50 EXISTING 120/240V 3-WIRE (METERED) TYPE III-BF SERVICE EQUIPMENT ENCLOSURE PP#113859M.

51 ADD (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR TRAFFIC COUNT STATION.

52 ADD 2#10, IN EXISTING CONDUIT.

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

TRAFFIC COUNT STATION AND CCTV AND COMMUNICATIONS SYSTEM ROUTING E-11

SCALE: 1" = 100'

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	CHECKED BY	DRAWN BY	REVISED BY	DATE REVISED
PAT SULLIVAN	RL	RS	MZ		10/94
	DATE 10/93	12/93			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$SYTIME$$$$$$

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USERNAME => $$$$$$USER$$$$$$ DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u11.dgn DATE: Tue May 23 2000 TIME: 13:08

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u12.dgn DATE: Tue May 23 2000 TIME: 13:07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	56	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 3 & 8	13	14	15	17	18	~~22~~ & 83	~~23~~ & 83	30
75P22 CABLE	COMMUNICATION DATA	1						1	1	
6P22 CABLE	CONTROLLER DATA		1	2	3	2	3		2	3
36~~24~~SMFO	SONET/CCTV TRUNK	1						1	1	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1						1	1	
2SMFO B/O CABLE	SHORT HAUL VIDEO				1		1			1
DLC	NB COUNT LOOP						1			
	INNERDUCT	1 1/4"	1 1/4"					1 1/4"	1 1/4"	
	CONDUIT SIZE	4"	2"	2"	2"	2"	2"	4"	4"	4"

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SEE SHEET E-29 FOR CAMERA LOCATION SD398

CAMERA LOCATION SD398 PM 39.8

MATCH LINE - SHEET E-11

SEE SHT E-29

R/W

NEW BRIDGED COUNT STATION CONTROLLER 2070 WITH 2425 AND 2423 PM 40.0

INSTALL TELEPHONE BRIDGE C-1 CABINET FOUNDATION DETAILS A

26 1 2"C, 2#10

3 3"C, 12DLC

5 3"C, ~~6~~DLC

~~3"C, 6DLC~~ 4

ROUTE 405

SB ON RAMP FROM BURBANK BLVD

SB

NB

NEW BRIDGED RAMP METER CONTROLLER 0396 WITH 0512 PM 40.0

INSTALL TELEPHONE BRIDGE

IRRIGATION CONTROLLER M PM 40.0

630 635 645 650

651+69.59 BK= 51+67.59 AHD

MATCH LINE - STA 54+00

NB OFF RAMP TO BURBANK BLVD

TRAFFIC CONTROLLER O PM 40.3

BURBANK BLVD

MATCH LINE - STA 54+00

SB OFF RAMP TO BURBANK BLVD

NB ON RAMP FROM BURBANK BLVD

ADD 1 DLC

RAMP METER CONTROLLER 0512 PM 40.4

TRAFFIC CONTROLLER N PM 40.3

IRRIGATION CONTROLLER P PM 40.3

CAMERA LOCATION SD407 PM 40.7

SEE SHEET E-30 FOR CAMERA LOCATION SD407

MATCH LINE - SHEET E-13

55 60 65 70 75 80

PROJECT NOTES: (THIS SHEET ONLY)

39 INSTALL STATE-FURNISHED LOOP SENSORS.

~~41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE 334 CABINET.

47 ADD 2 DLC IN EXISTING CONDUIT.

54 ADD 1 DLC IN EXISTING CONDUIT.

55 LOOP DETECTOR TO CONSIST OF FOUR TURNS.

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

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

TRAFFIC COUNT STATION, CCTV AND COMMUNICATIONS SYSTEM ROUTING, AND LOOP DETECTOR

SCALE: 1" = 100'

E-12

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	DATE	REVISED BY	
PAT SULLIVAN	CHECKED BY	RS	12/93	DATE REVISED
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		RL	10/93	MZ 10/94

Caltrans

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FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u12.dgn DATE: Tue May 23 2000 TIME: 13:07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	57	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST.,
SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS . ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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PROJECT NOTES: (THIS SHEET ONLY)

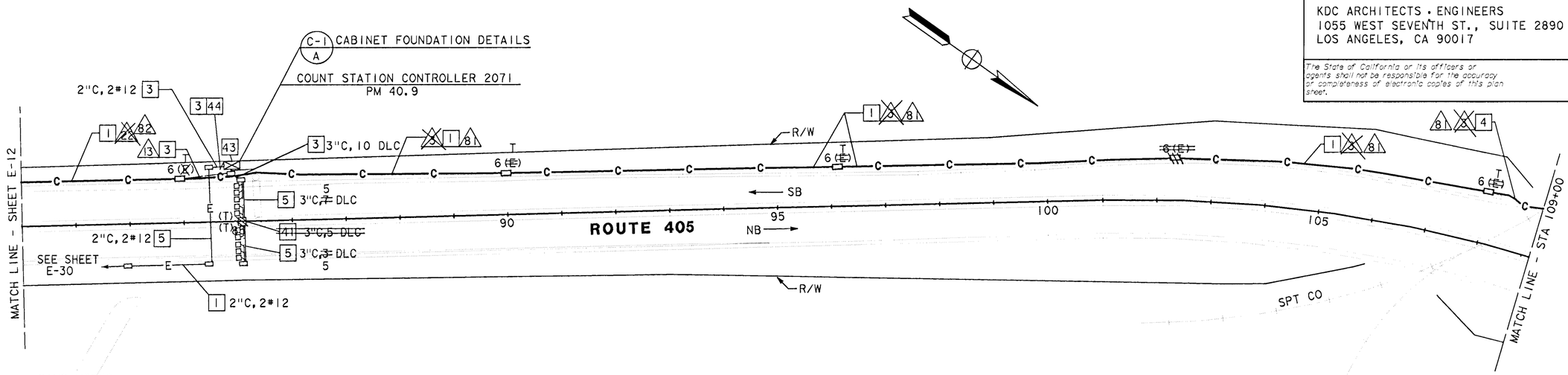
~~41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE TYPE 334 CABINET.

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 3 & 81	13	14	15	22 & 82	23 & 83	26 & 84	29	36 & 85
75P22 CABLE	COMMUNICATION DATA	1				1				1
6P22 CABLE	CONTROLLER DATA		1	2	3	1	2	3	2	4
3624SMFO	DATA /VIDEO NODE HUB TRUNK	1				1	1	1	1	1
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1				1	1	1	1	1
DLC	COUNT DETECTOR				1					
	INNERDUCT	1 1/4"				1 1/4"	1 1/4"	1 1/4"		1 1/4"
	CONDUIT SIZE	4"	2"	2"	2"	4"	4"	4"	4"	4"



AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

TRAFFIC COUNT STATION, CCTV AND COMMUNICATIONS SYSTEM ROUTING, AND LOOP DETECTOR

SCALE: 1" = 100'

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

E-13

DATE	REVISED BY	CALCULATED/ DESIGNED BY
10/93	RL	MZ
12/93	RS	
DATE REVISED	CHECKED BY	
10/94	PAT SULLIVAN	

DESIGN OVERSIGHT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)
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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$
CU 07374
EA 120831

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u14.dgn DATE: Tue May 23 2000 TIME: 13:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	58	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST.,
SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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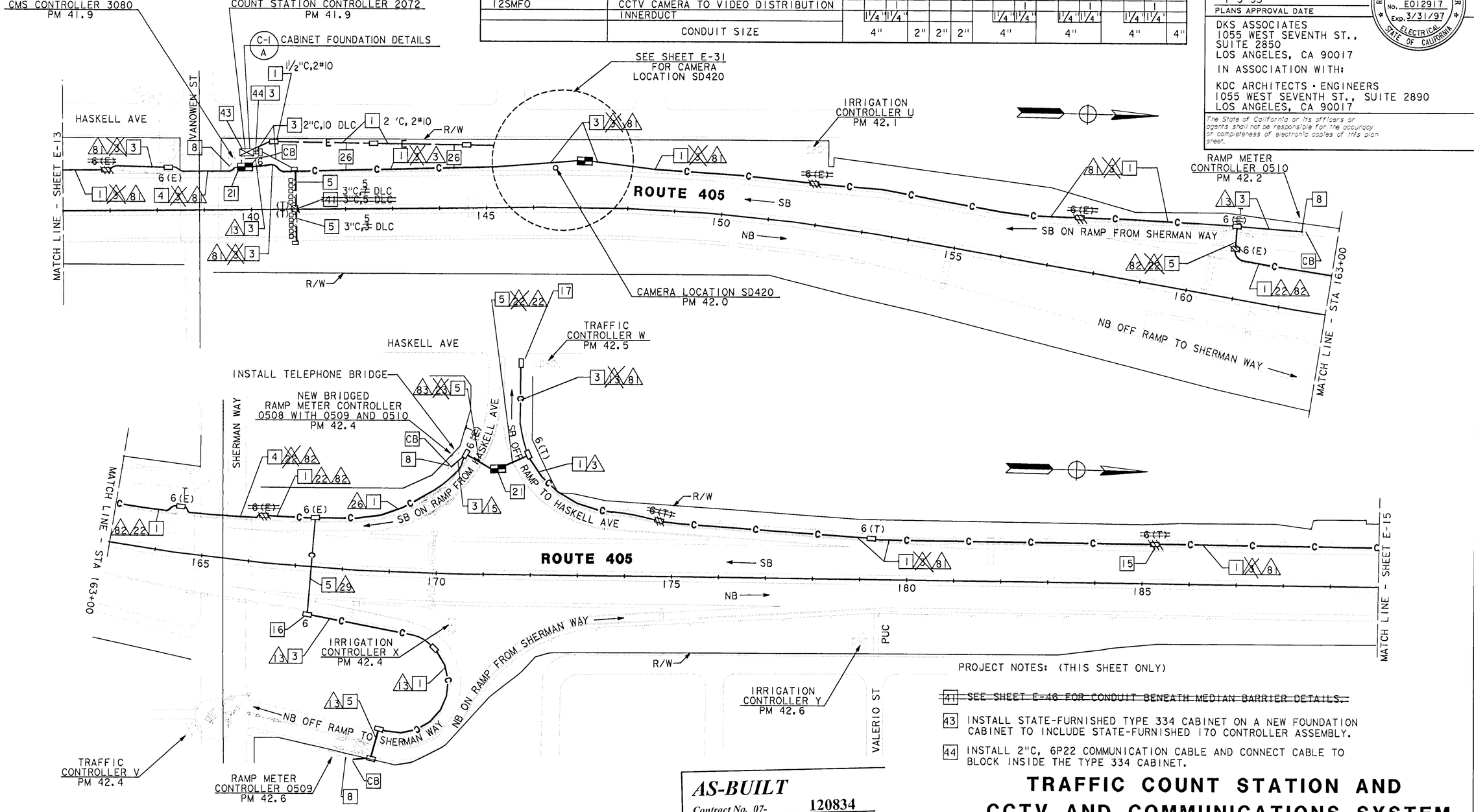
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 3 & 8	13 & 14	15	22 & 82	23 & 83	26 & 84	29
75P22 CABLE	COMMUNICATION DATA	1			1	1	1	
6P22 CABLE	CONTROLLER DATA		1	2	3	1	2	3	2
~~24SMFO~~ 36SMFO	DATA/VIDEO NODE TO HUB TRUNK	1						
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1		1	1	1	
	INNERDUCT	1¼" 1¼"			1¼" 1¼"	1¼" 1¼"	1¼" 1¼"	
	CONDUIT SIZE	4"	2"	2"	4"	4"	4"	4"



PROJECT NOTES: (THIS SHEET ONLY)

~~41 SEE SHEET E-48 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT CABLE TO BLOCK INSIDE THE TYPE 334 CABINET.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

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

TRAFFIC COUNT STATION AND CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

E-14

DATE	REVISED BY
10/93	RL
12/93	RS
10/94	MZ

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYTIME$$$$$$

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u14.dgn DATE: Tue May 23 2000 TIME: 13:05

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u15.dgn DATE: Tue May 23 2000 TIME: 13:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	59	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

1-3-95
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST.,
SUITE 2850
LOS ANGELES, CA 90017

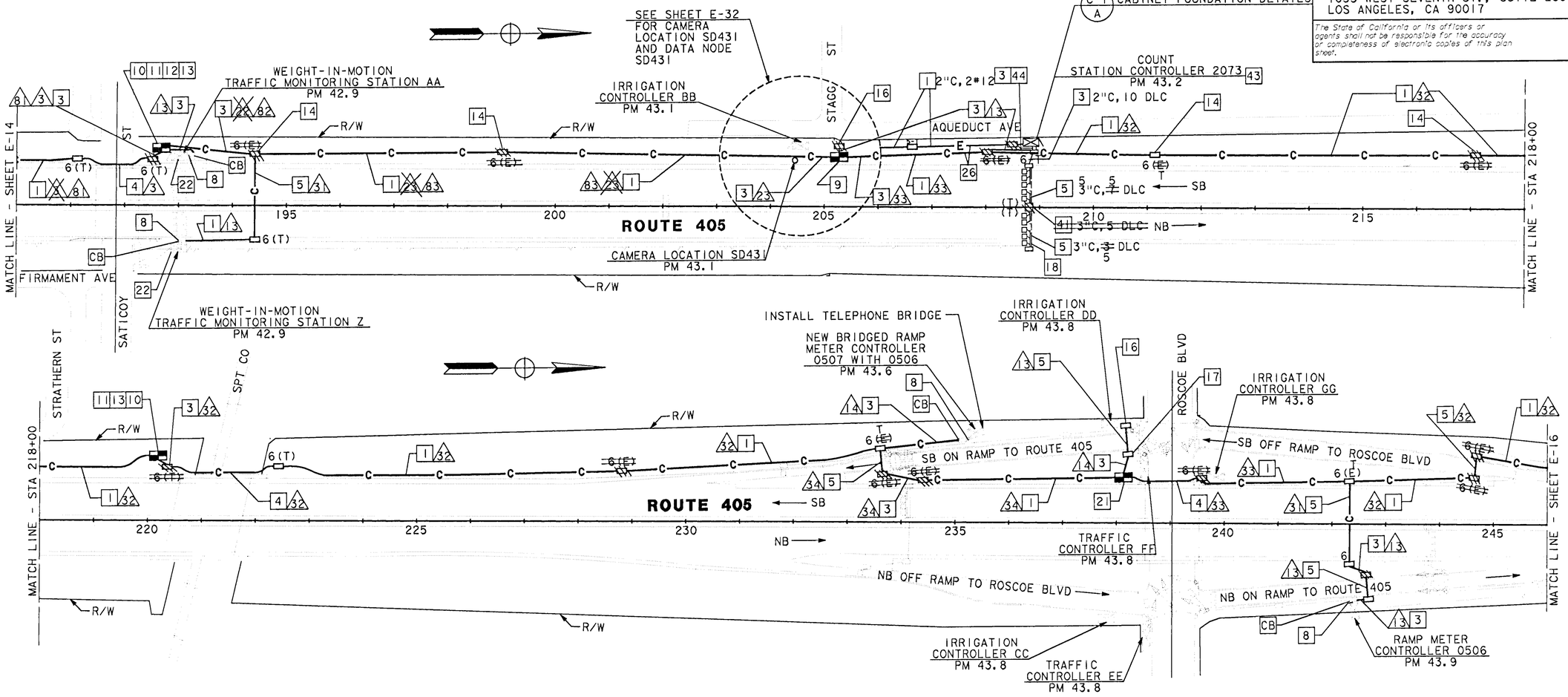
IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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.

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 3/8	13/14	22/82	23/83	31	32	33	34
75P22 CABLE	COMMUNICATION DATA	1		1	1	1	1	1	1
6P22 CABLE	CONTROLLER DATA		1 2		2				2
~~24SMFO~~ 36SMFO	DATA/VIDEO NODE TO HUB TRUNK	1		1	1	1	1	1	1
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1		1	1				
	INNERDUCT	1¼" 1¼"		1¼" 1¼"	1¼" 1¼"	1¼"	1¼" 1¼"	1¼" 1¼"	1¼" 1¼"
	CONDUIT SIZE	4"	2" 2"	4"	4"	4"	4"	4"	4"



PROJECT NOTES: (THIS SHEET ONLY)

~~41~~ ~~SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE TYPE 334 CABINET.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

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

TRAFFIC COUNT STATION AND CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

E-15

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	RL	RS	10/93	MZ	10/94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$
CU 07374
EA 120831

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u15.dgn DATE: Tue May 23 2000 TIME: 13:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	60	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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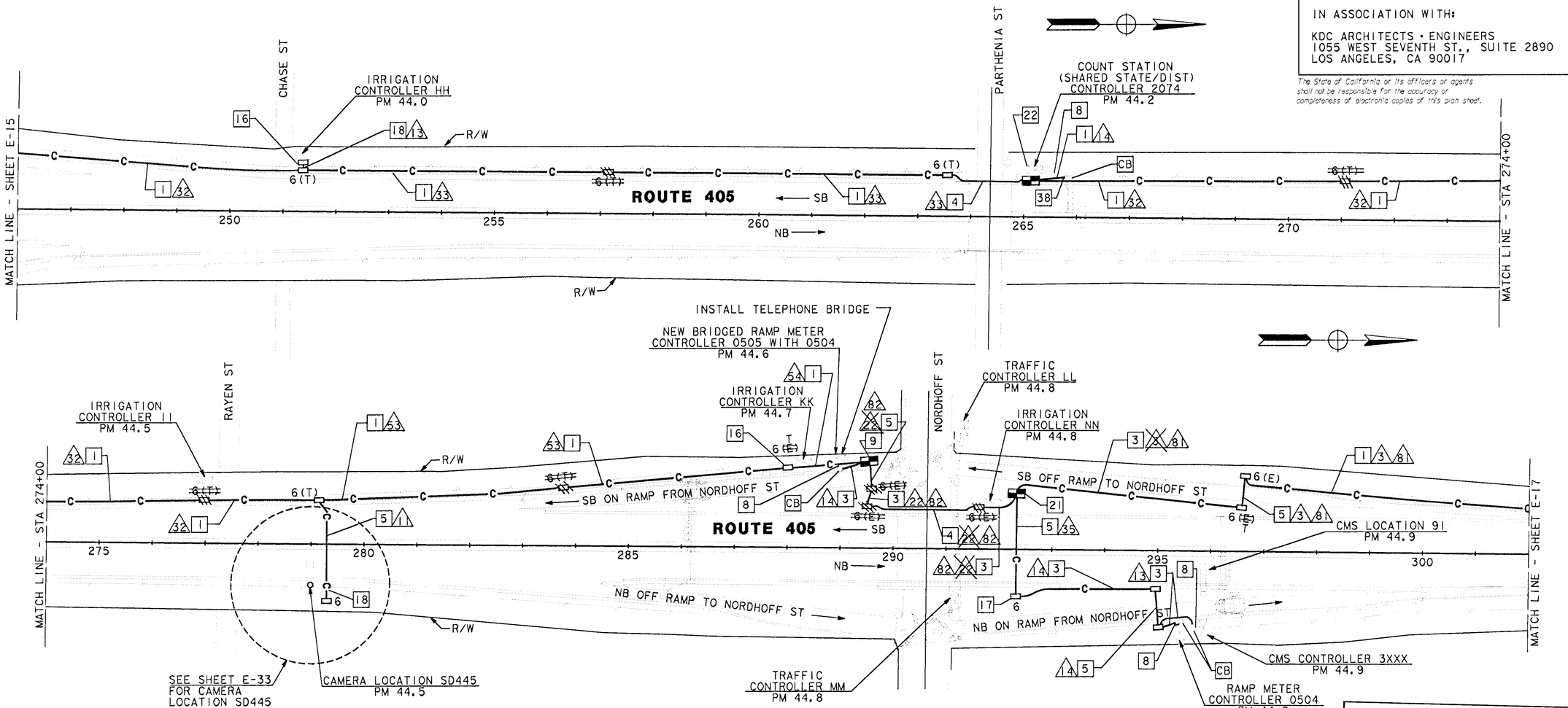
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 8	8	11	13	14	28	82	32	33	34	35	53	54
75P22 CABLE	COMMUNICATION DATA	1					1		1	1		1	1	1
6P22 CABLE	CONTROLLER DATA			1	1	2				1	2			2
~~24SMFO~~ 36SMFO	DATA/VIDEO NODE TO HUB TRUNK		1				1		1	1		3	1	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1				1		1	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO		1										1	
	INNERDUCT	1 1/4"	1 1/4"				1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"		1 1/4"	1 1/4"
	CONDUIT SIZE	4"		4"	2"	2"	4"		4"	4"	4"	4"	4"	4"



PROJECT NOTES: (THIS SHEET ONLY)

38 USE CONDUIT FROM PB INTO CABINET TO CONNECT 1-6P22 TO DISTRICT EQUIPMENT IN CABINET. COIL 25 FEET OF THE OTHER 6P22 IN EXISTING PB FOR STATE EQUIPMENT.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

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

E-16

DATE	REVISED BY	DATE REVISED
10/93	RL	12/93 RS

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYSTIME$$$$$$$

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$
CU 07374
EA 120831

SERID: t7aferna@NODE F.F.: /project/120831_ua/ab/t7aferna/712083u17.dgn DATE: Tue May 23 2000 TIME: 13:01

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.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	61	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

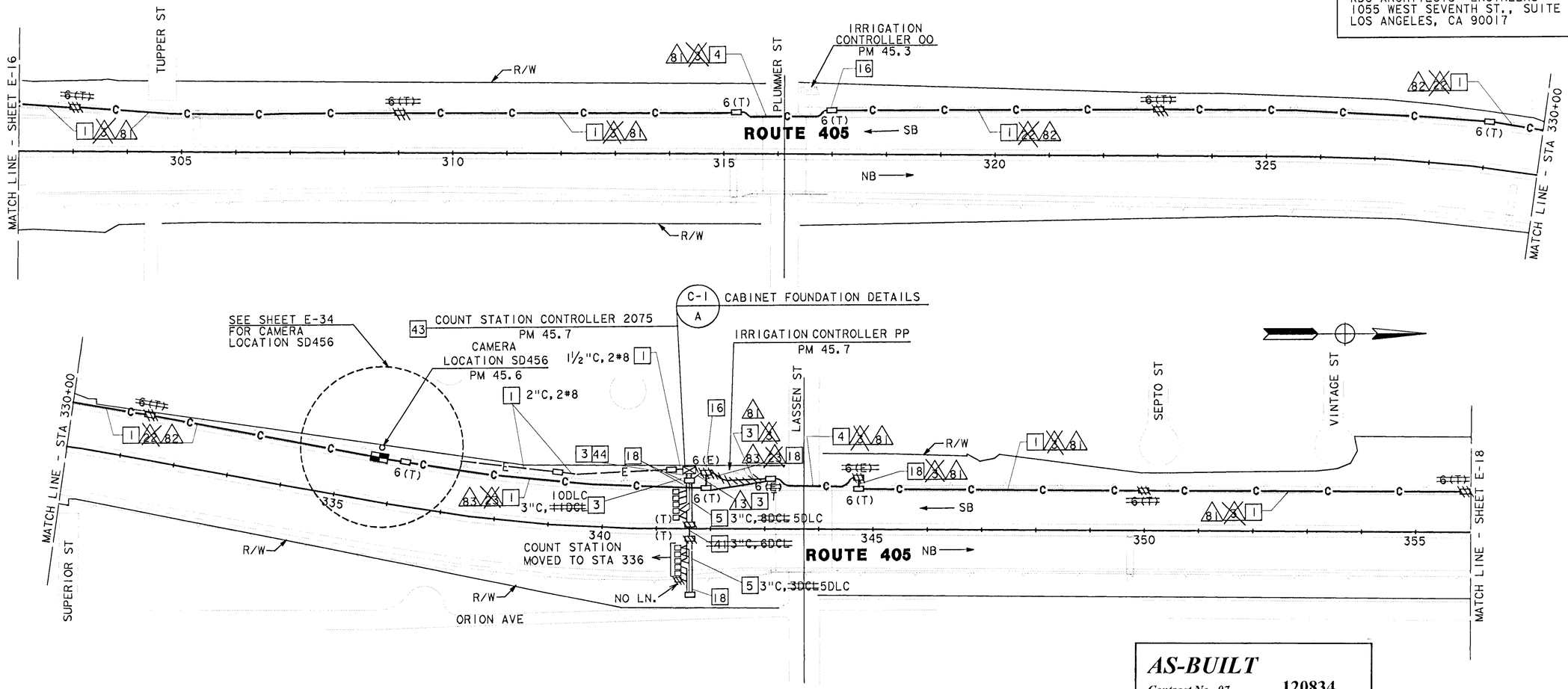
DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1 & 81	RUN 13	RUN 22 & 82	RUN 23 & 83
75P22 CABLE	COMMUNICATION DATA	1		1	1
6P22 CABLE	CONTROLLER DATA		1	1	2
~~24SMFO~~ 36SMFO	DATA/VIDEO NODE TO HUB TRUNK	1		1	1
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1		1	1
	INNERDUCT	1¼"/1¼"		1¼"/1¼"	1¼"/1¼"
	CONDUIT SIZE	4"	2"	4"	4"



PROJECT NOTES: (THIS SHEET ONLY)

41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED TO CONTROLLER ASSEMBELY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE TYPE 334 CABINET.

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

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

TRAFFIC COUNT STATION, CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

E-17

DATE	REVISED BY	DATE REVISED
10/93	MZ	10/94
12/93	RS	

CALCULATED/DESIGNED BY: RL
CHECKED BY:

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYTIME$$$$$$

$$$$$$$$$$DGNSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USER$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u17.dgn DATE: Tue May 23 2000 TIME: 13:01

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	62	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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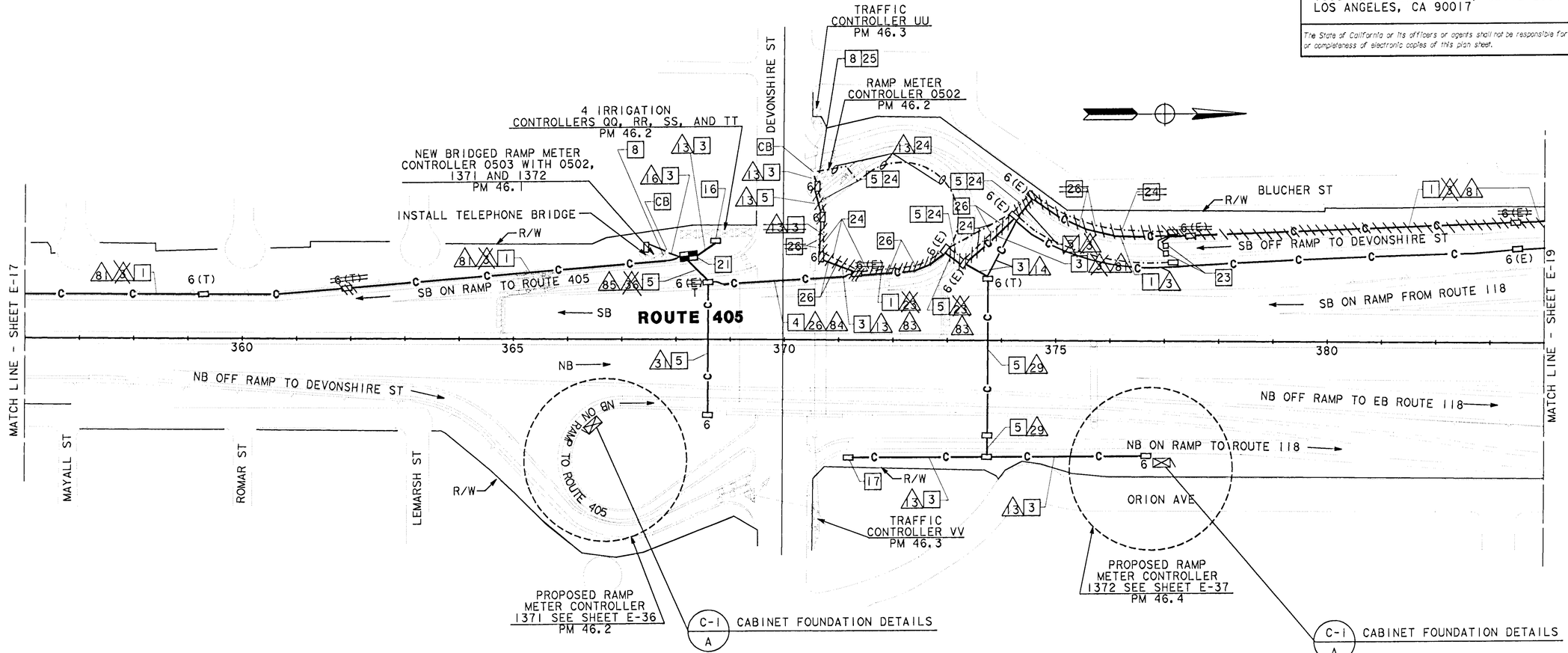
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 8	13	14	25 83	26 84	29	31	26 84	16
75P22 CABLE	COMMUNICATION DATA	1			1					
6P22 CABLE	CONTROLLER DATA		1	2	2	3	2	1	4	4
~~24SMFO~~ 36SMFO	DATA/VIDEO NODE TO HUB TRUNK	1			1	1			1	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1			1	1			1	
DLC	COUNT DETECTOR		1							
	INNERDUCT	1¼" 1¼"			1¼" 1¼"	1¼" 1¼"			1¼" 1¼"	
	CONDUIT SIZE	4"	2"	2"	4"	4"	4"	4"	4"	2"



AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-18

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

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	RL	RS	10/93		12/93

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u19.dgn DATE: Tue May 23 2000 TIME: 12:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	63	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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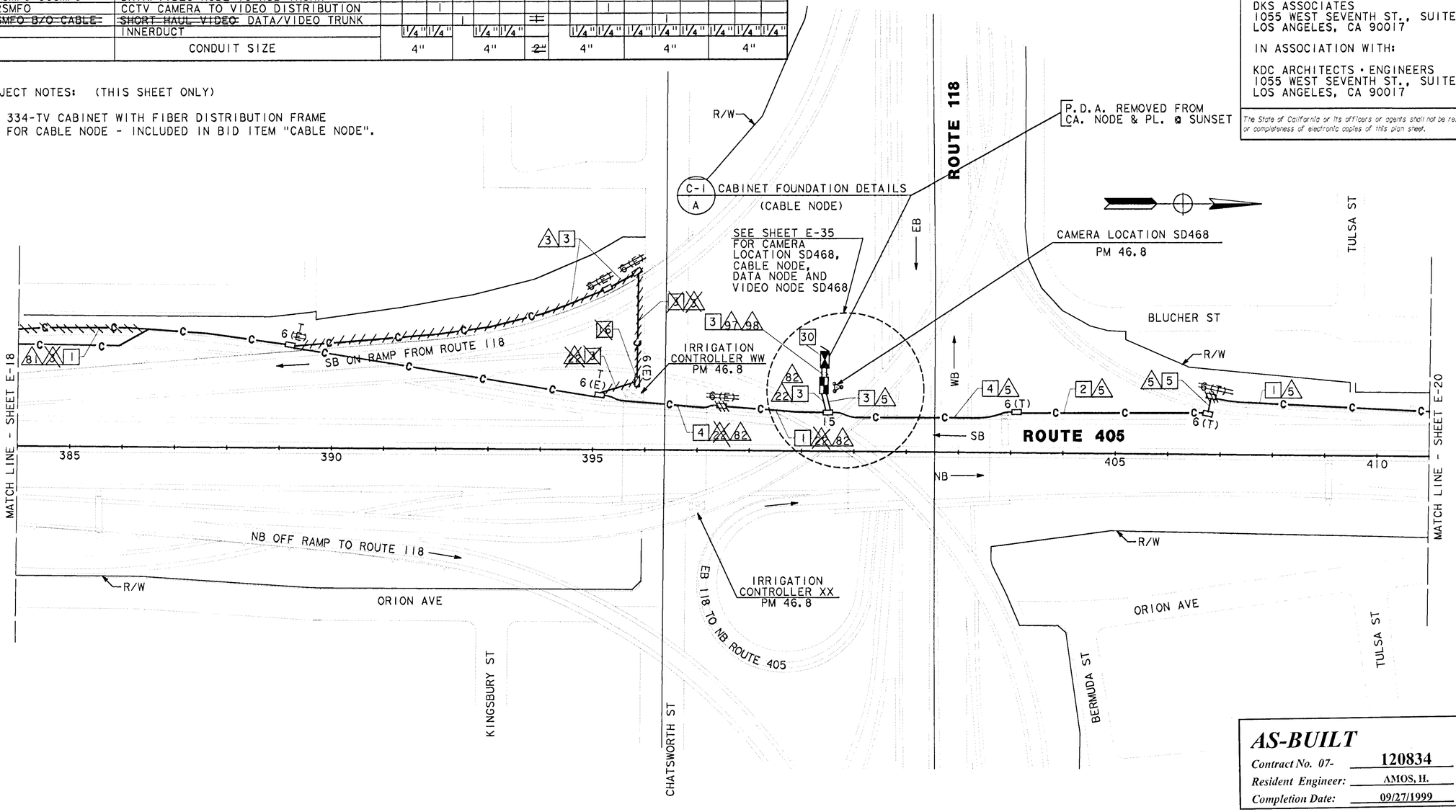
CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 5	8	5	15	22	82	97	98
50P22 CABLE	COMMUNICATION DATA			1					
75P22 CABLE	COMMUNICATION DATA	1				1			
6P22 CABLE	CONTROLLER DATA				=	1			
~~24SMFO~~ 36SMFO	DATA/VIDEO NODE TO HUB TRUNK		1				1	1	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION		1	1			1		
24SMFO ~~2SMFO B/O CABLE~~	~~SHORT HAUL VIDEO~~ DATA/VIDEO TRUNK			1	=		1		
	INNERDUCT	1¼" 1¼"		1¼" 1¼"		1¼" 1¼"		1¼" 1¼" 1¼"	1¼" 1¼" 1¼"
	CONDUIT SIZE	4"		4"	2"	4"		4"	4"

PROJECT NOTES: (THIS SHEET ONLY)

30 334-TV CABINET WITH FIBER DISTRIBUTION FRAME FOR CABLE NODE - INCLUDED IN BID ITEM "CABLE NODE".



AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

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

E-19

DATE	REVISED BY
10/93	RL
12/93	RS

DATE REVISED

CALCULATED/DESIGNED BY

CHECKED BY

DESIGN OVERSIGHT

PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$SYSTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374

EA 120831

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u19.dgn DATE: Tue May 23 2000 TIME: 12:58

USERID t7aferna@NODE FILE /project/120831_ua/ab/t7aferna/712083u20.dan DATE Tue May 23 2000 TIME 12:45

CONDUCTOR SCHEDULE													
CONDUCTOR TYPE	FUNCTION	RUN	5	13	14	28	31	37	38
50P22 CABLE	COMMUNICATION DATA		1			1	1	1	1
6P22 CABLE	CONTROLLER DATA			1	2	3	1	1	2
	INNERDUCT		1¼" 1¼"			1¼" 1¼"		1¼" 1¼"	1¼" 1¼"
	CONDUIT SIZE		4"	2"	2"	4"	4"	4"	4"

SEE SHEET 64A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	64	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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PROPOSED RAMP METER CONTROLLER 1377 SEE SHEET E-38 PM 47.2

SB ON RAMP

CABINET FOUNDATION DETAILS C-1 A

2 IRRIGATION CONTROLLERS ZZ AND AAA PM 47.2

LUNDLOW ST

SAN FERNANDO MISSION RD

MATCH LINE - SHEET E-19

R/W

ROUTE 405

SB

NB

ORION ST

TRAFFIC CONTROLLER YY PM 47.2

TRAFFIC MONITOR STATION GGG PM 47.3

MATCH LINE - STA 439+00

PROPOSED BRIDGED RAMP METER CONTROLLER 1376 WITH 1373 SEE SHEET E-39 PM 47.6

2 IRRIGATION CONTROLLERS CCC AND DDD PM 47.7

TRAFFIC CONTROLLER EEE PM 47.8

C-1 A CABINET FOUNDATION DETAILS

BLUCHER ST

STRANDWOOD AVE

RINALDI ST

SB OFF RAMP TO RINALDI ST

SB ON RAMP FROM RINALDI ST

NB OFF RAMP TO ORION AVE

NB ON RAMP TO ROUTE 405

BLUCHER AVE

IRRIGATION CONTROLLER FFF PM 48.0

MATCH LINE - SHEET E-21

RAMP METER CONTROLLER 1373 SEE SHEET E-40 PM 47.9

SEE SHEET 64A

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

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

E-20

DESIGN OVERSIGHT	CALCULATED/ DESIGNED BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
PAT SULLIVAN	RL	RS	10/93	12/93	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07374 EA 120831

USERID t7aferna@NODE FILE /project/120831_ua/ab/t7aferna/712083u20.dan DATE Tue May 23 2000 TIME 12:45

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u20A.dgn DATE: Tue May 23 2000 TIME: 12:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	64A	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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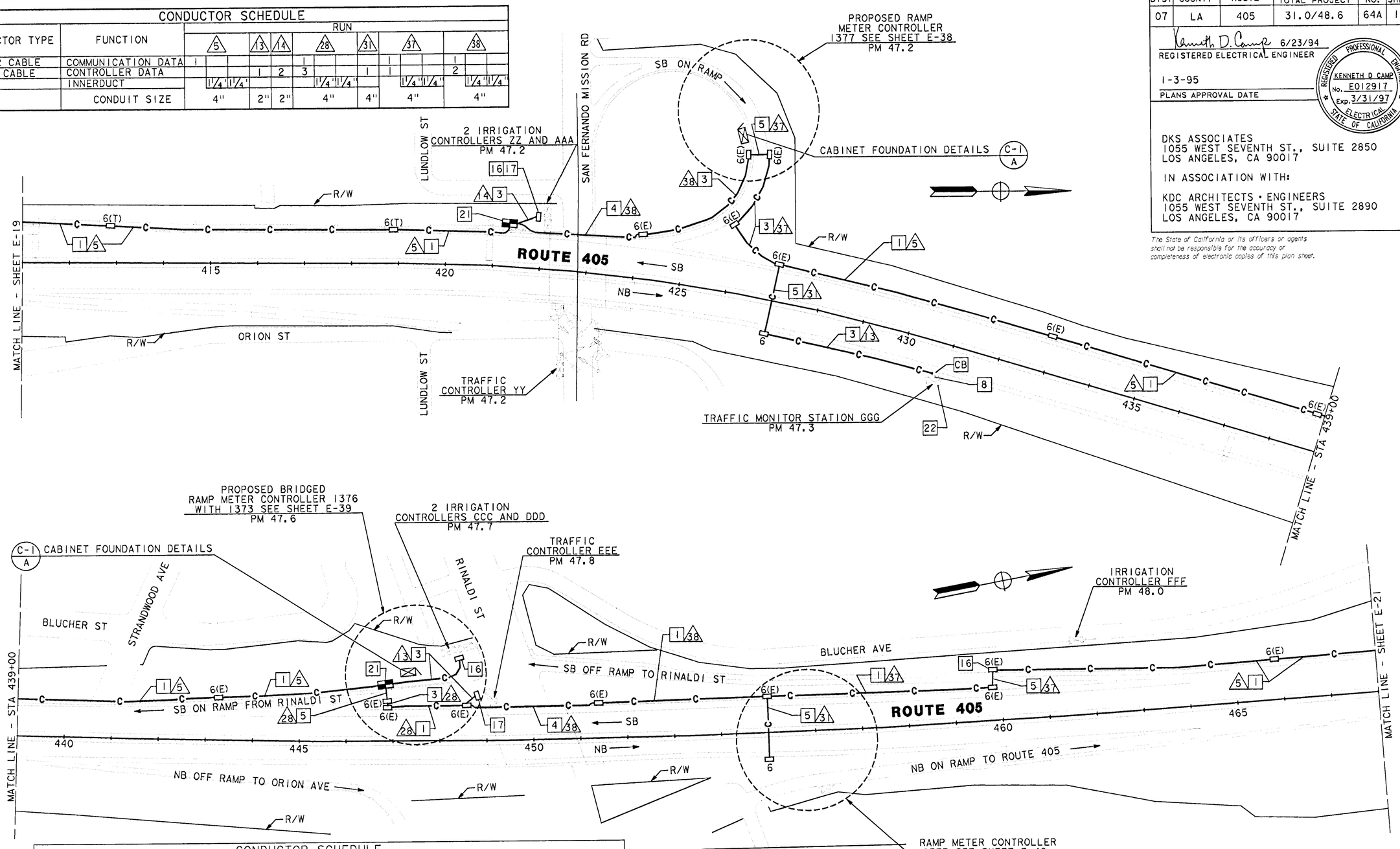
CONDUCTOR SCHEDULE																							
CONDUCTOR TYPE	FUNCTION	RUN																					
		5			13	14		28			31		37			38							
50P22 CABLE	COMMUNICATION DATA	1																					
6P22 CABLE	CONTROLLER DATA				1	2	3				1					2							
	INNERDUCT	1¼"	1¼"	1¼"				1¼"	1¼"	1¼"			1¼"	1¼"	1¼"			1¼"	1¼"	1¼"				
	CONDUIT SIZE	4"			2"	2"		4"			4"		4"			4"							



CONDUCTOR SCHEDULE																							
CONDUCTOR TYPE	FUNCTION	RUN																					
		5			13	14		28			31		37										
50P22 CABLE	COMMUNICATION DATA	1						1					1										
6P22 CABLE	CONTROLLER DATA				1	2	3				1		1										
24SMFO	DATA /VIDEO NODE HUB TRUNK																						
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION																						
DLC	CONDUIT DETECTOR																						
	INNERDUCT	1¼"	1¼"	1¼"				1¼"	1¼"	1¼"			1¼"	1¼"	1¼"								
	CONDUIT SIZE	4"			2"	2"		4"			4"		4"										

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

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

CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

E-20A

REVISED BY	DATE REVISED
RL	10/93
RS	12/93

CALCULATED/DESIGNED BY
CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN OVERSIGHT
PAT SULLIVAN

Caltrans

LAST REVISION 00-00-00

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

$$$$$$$$$$DGNSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USER$$$$$$

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u20A.dgn DATE: Tue May 23 2000 TIME: 12:44

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u21.dgn DATE: Tue May 23 2000 TIME: 12:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	65	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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CONDUCTOR SCHEDULE				
CONDUCTOR TYPE	FUNCTION	RUN 5	13	37
50P22 CABLE	COMMUNICATION DATA	1		1
6P22 CABLE	CONTROLLER DATA			
	INNERDUCT	1¼"1¼"		1¼"1¼"
	CONDUIT SIZE	4"	2"	4"

PROJECT NOTES: (THIS SHEET ONLY)

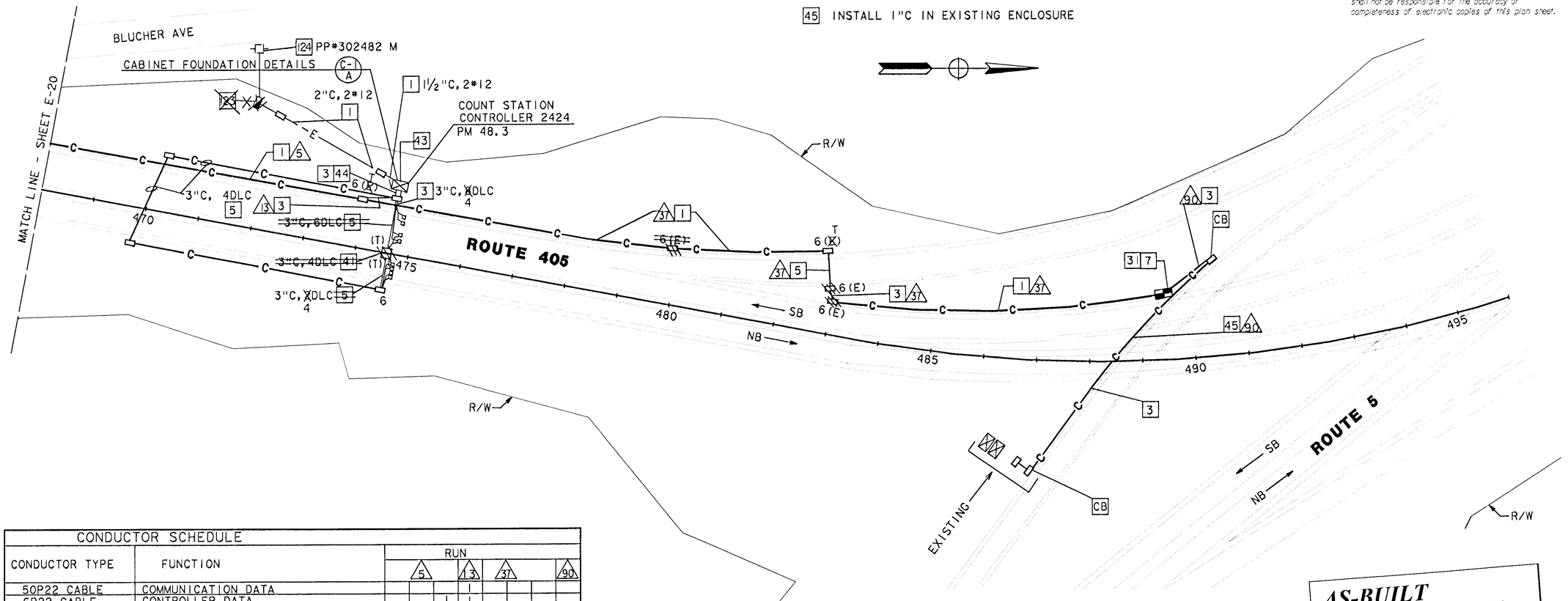
31 INSTALL TWISTED PAIR SPLICE CLOSURE AND TERMINATE 50P22 CABLE.

~~41 SEE SHEET E-46 FOR CONDUIT BENEATH MEDIAN BARRIER DETAILS.~~

43 INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER ASSEMBLY.

44 INSTALL 2"C, 6P22 COMMUNICATION CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE TYPE 334 CABINET.

45 INSTALL 1"C IN EXISTING ENCLOSURE



CONDUCTOR SCHEDULE					
CONDUCTOR TYPE	FUNCTION	RUN 5	13	37	90
50P22 CABLE	COMMUNICATION DATA		1		
6P22 CABLE	CONTROLLER DATA		1		
24SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION	1			
12SMFO	SHORT HAUL VIDEO				
2SMFO B/O CABLE					
	INNERDUCT	1¼"1¼"		1¼"1¼"	
	CONDUIT SIZE	4"	2"	4"	

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

TRAFFIC COUNT STATION AND CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

E-21

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

CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
CHECKED BY	RL 10/93	MZ	10/94
	RS 12/93		

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => $$$$$$SYTIME$$$$$$

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

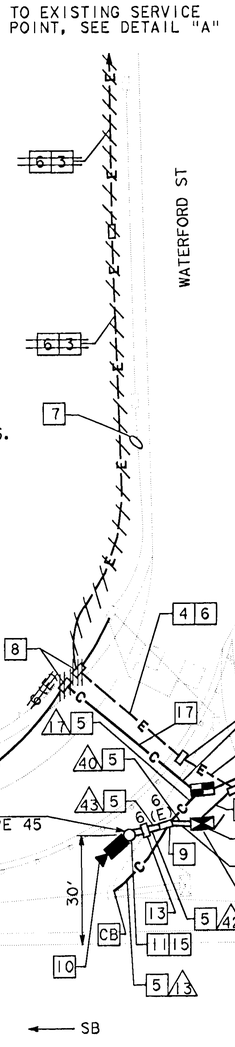
USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u21.dgn DATE: Tue May 23 2000 TIME: 12:43

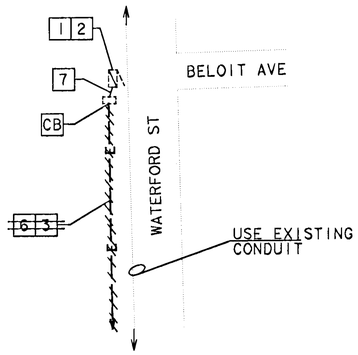
USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u22.dgn DATE: Tue May 23 2000 TIME: 12:43

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3WIRE (METERED), TYPE 111-BF SERVICE EQUIPMENT ENCLOSURE: PP #107418M, 11372½ WATERFORD ST.
2. ADD (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT IN PAVEMENT.
4. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
5. TRENCH CONDUIT IN ASPHALT.
6. INSTALL 2"C, 2#8.
7. ADD 2#8 WIRES IN EXISTING CONDUIT.
8. USE THE SAME PIT FOR JACKING CONDUITS.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
12. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL A).
13. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
14. INSTALL 1½"C, 2#8.
15. INSTALL 160 DEGREE CAMERA PAN STOPS TO RESTRICT VIEW INTO RESIDENTIAL AREA.
16. TRIM TREES ALONG WALL AS DIRECTED BY ENGINEER FOR IMPROVED CAMERA VISIBILITY.
17. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

CONDUCTOR SCHEDULE								
CONDUCTOR TYPE	FUNCTION	RUN 13	17	40	42	43	44
6P22 CABLE	CONTROLLER DATA	1	2	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO		1	1			
RG-6A/U COAX	BASE BAND VIDEO			1	1		
CONTROL CABLE	CAMERA CONTROL					1	1
	CONDUIT SIZE	2"	2"	4"	2"	2"	4"





DETAIL "A"
SCALE 1" = 40'

CAMERA LOCATION SD321, PM 32.1
SCALE = 1"-20'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	66	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV CAMERA (LOCATION SD321)
SCALE AS NOTED

E-22

REVISED BY	DATE REVISED
DP	RS
DATE 10/93	12/93

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

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CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

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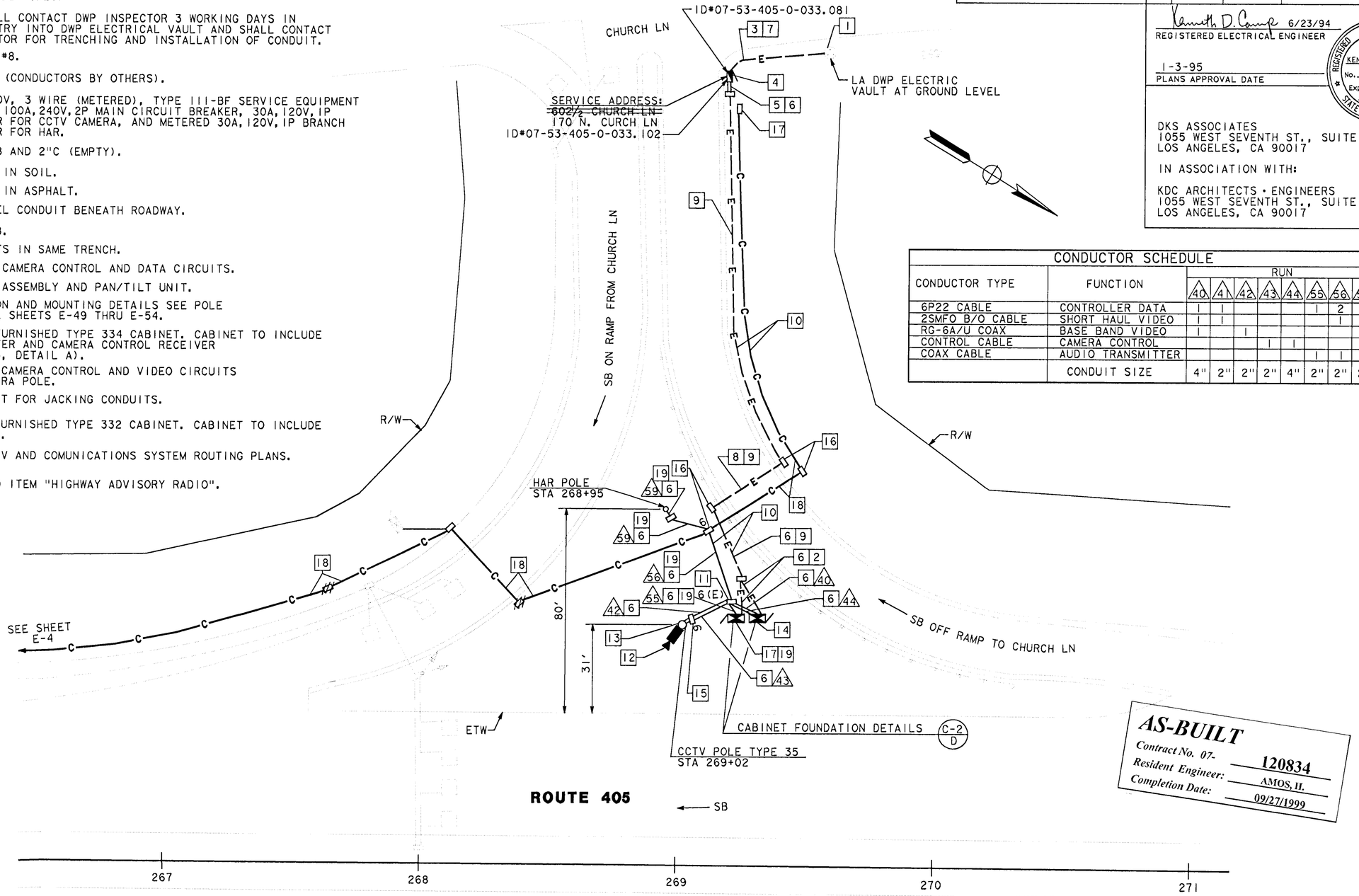
USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u22.dgn DATE: Tue May 23 2000 TIME: 12:43

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u23.dgn DATE: Tue May 23 2000 TIME: 12:41

NOTES: (THIS SHEET ONLY)

1. CONTRACTOR SHALL CONTACT DWP INSPECTOR 3 WORKING DAYS IN ADVANCE FOR ENTRY INTO DWP ELECTRICAL VAULT AND SHALL CONTACT LA CITY INSPECTOR FOR TRENCHING AND INSTALLATION OF CONDUIT.
2. INSTALL 1½"C, 2#8.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
4. INSTALL 120/240V, 3 WIRE (METERED), TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER, 30A, 120V, IP CIRCUIT BREAKER FOR CCTV CAMERA, AND METERED 30A, 120V, IP BRANCH CIRCUIT BREAKER FOR HAR.
5. INSTALL 2"C, 4#8 AND 2"C (EMPTY).
6. TRENCH CONDUIT IN SOIL.
7. TRENCH CONDUIT IN ASPHALT.
8. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
9. INSTALL 2"C, 4#8.
10. INSTALL CONDUITS IN SAME TRENCH.
11. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
12. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
13. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
14. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL A).
15. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
16. USE THE SAME PIT FOR JACKING CONDUITS.
17. INSTALL STATE-FURNISHED TYPE 332 CABINET. CABINET TO INCLUDE HAR TRANSMITTER.
18. INCLUDED IN CCTV AND COMUNICATIONS SYSTEM ROUTING PLANS.
19. INCLUDED IN BID ITEM "HIGHWAY ADVISORY RADIO".



CONDUCTOR SCHEDULE									
CONDUCTOR TYPE	FUNCTION	RUN							
		△40	△41	△42	△43	△44	△55	△56	△59
6P22 CABLE	CONTROLLER DATA	1	1				1	2	
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1					1	
RG-6A/U COAX	BASE BAND VIDEO	1		1					
CONTROL CABLE	CAMERA CONTROL				1	1			
COAX CABLE	AUDIO TRANSMITTER						1	1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"	2"	2"	2"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	67	129

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Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, II.
Completion Date: 09/27/1999

CAMERA LOCATION SD331, PM 33.1
HAR LOCATION SD331, PM 33.1

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

CCTV CAMERA AND HIGHWAY ADVISORY RADIO (LOCATION SD331)

SCALE: 1" = 20'

E-23

DATE	REVISED BY
10/93	DP
12/93	RS

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYSTIME$$$$$$

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u23.dgn DATE: Tue May 23 2000 TIME: 12:41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	68	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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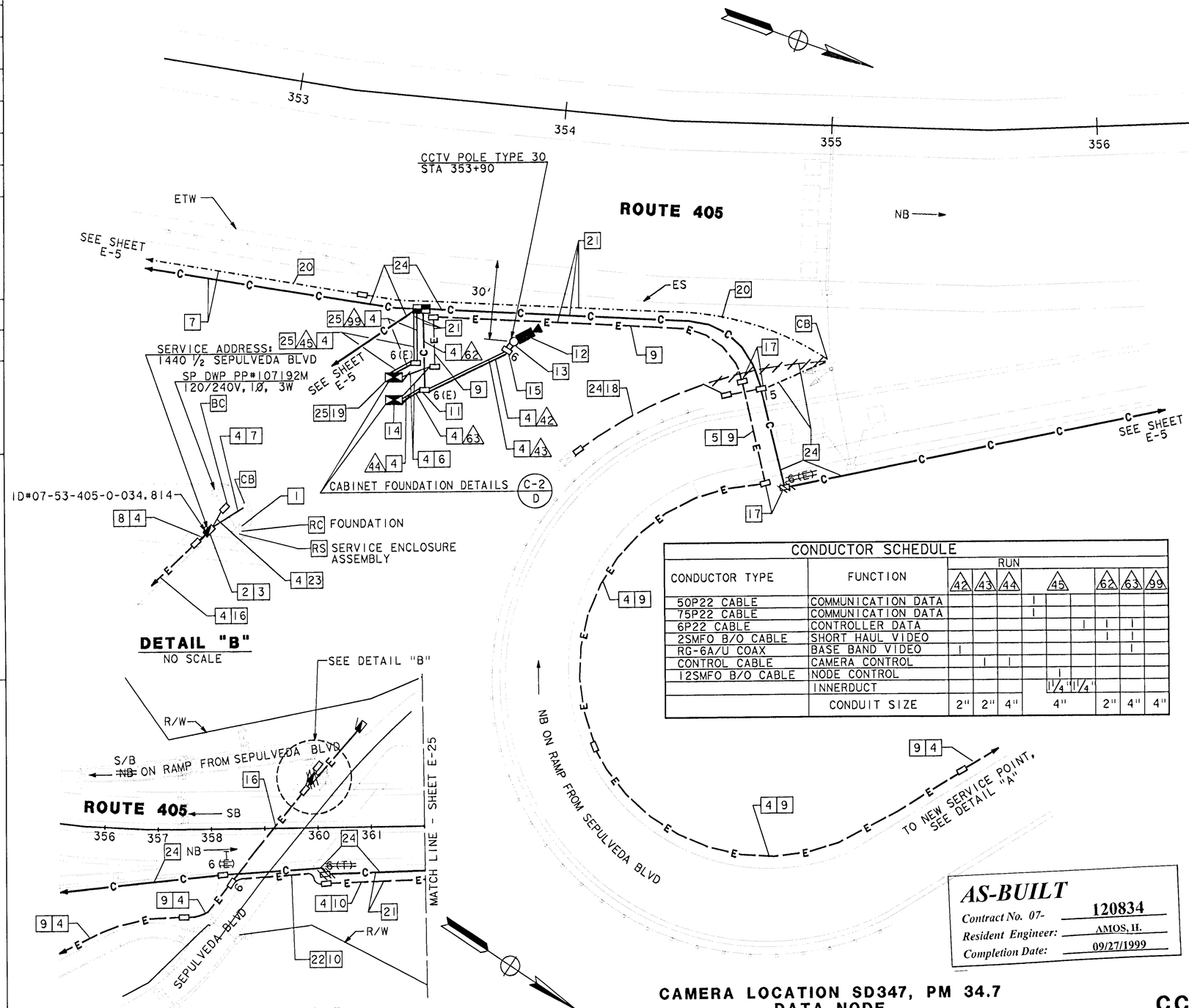

DETAIL "B"
NO SCALE

DETAIL "A"
SCALE: 1"=100'

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 42	43	44	45		62	63	99
50P22 CABLE	COMMUNICATION DATA				1				
75P22 CABLE	COMMUNICATION DATA				1				
6P22 CABLE	CONTROLLER DATA					1	1	1	
2SMFO B/O CABLE	SHORT HAUL VIDEO						1	1	
RG-6A/U COAX	BASE BAND VIDEO	1						1	
CONTROL CABLE	CAMERA CONTROL		1	1					
12SMFO B/O CABLE	NODE CONTROL				1				
	INNERDUCT				1 1/4"	1 1/4"			
	CONDUIT SIZE	2"	2"	4"	4"		2"	4"	4"

CAMERA LOCATION SD347, PM 34.7
DATA NODE
SCALE : 1" = 20'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING 120/240V UNMETERED SERVICE EQUIPMENT ENCLOSURE. CONTRACTOR SHALL CONTACT CALTRANS ENGINEER IN ADVANCE OF REMOVING EXISTING SERVICE EQUIPMENT ENCLOSURE. CONTACT DWP 48 HOURS IN ADVANCE TO TURN OFF POWER FROM POWER POLE.
2. INSTALL 120/240V, 3 WIRE (METERED) TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH METERED AND UNMETERED CIRCUITS, 100A, 240V, 2P MAIN CIRCUIT BREAKER; 3 (METERED) 30A, 120V, 1P CIRCUIT BREAKERS FOR CCTV CAMERA, 30A, 120V, 1P, CIRCUIT BREAKER FOR DATA NODE; AND (UNMETERED) 40A, 120V, 1P CIRCUIT BREAKER FOR EXISTING RAMP METER.
3. CONNECT EXISTING LOAD CIRCUITS TO UNMETERED CIRCUITS IN NEW SERVICE EQUIPMENT ENCLOSURE.
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. INSTALL 1 1/2"C, 2#2.
7. INSTALL 2"C, 2#8.
8. INSTALL 2"C, 4#2 FOR CAMERA SD347 2#4 FOR TRAFFIC COUNT STATION AND DATA NODE SD347, 2#1/0 FOR CAMERA SD353 AND 2"C, EMPTY.
9. INSTALL 2"C, 4#2.
10. INSTALL 2", 2#1/0, 2#4
11. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
12. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
13. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
14. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL C).
15. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
16. INSTALL 2"C, 4#2 FOR CAMERA SD347, 2#4 FOR TRAFFIC COUNT STATION, AND DATA NODE SD347, 2#1/0 FOR CAMERA SD353.
17. USE THE SAME PIT FOR JACKING CONDUITS.
18. ADD 1-DLC IN EXISTING CONDUITS TO CONTROLLER.
19. INSTALL STATE-FURNISHED TYPE 334 CABINET, DATA NODE CABINET TO INCLUDE TWO D4 CHANNEL BANKS (SEE SHEET E-48, DETAIL C).
20. INSTALL 2"C, 1-DLC.
21. INSTALL CONDUITS IN THE SAME TRENCH.
22. ATTACH CONDUIT TO STRUCTURE (SEE SHEET C-5 FOR BRIDGE ATTACHMENT TYPE AND DETAILS).
23. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
24. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
25. INCLUDED IN BID ITEM "EQUIPMENT AT DATA NODE SD347".

CCTV CAMERA AND EQUIPMENT AT DATA NODE (LOCATION SD 347)

SCALE AS NOTED

E-24

LAST REVISION 00-00-00

DESIGN OVERSIGHT: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DATE	REVISED BY	CALCULATED/ DESIGNED BY	CHECKED BY
10/93	DP		
12/93	RS		

DATE REVISED

$$$$$$$$$$DONSPEC$$$$$$$$$$ $$$$$$SYSTIME$$$$$$ $$$$$$USER$$$$$$

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CU 07374 | EA 120831

FORM DC-OE-92-PF (REV. 3/88)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	69	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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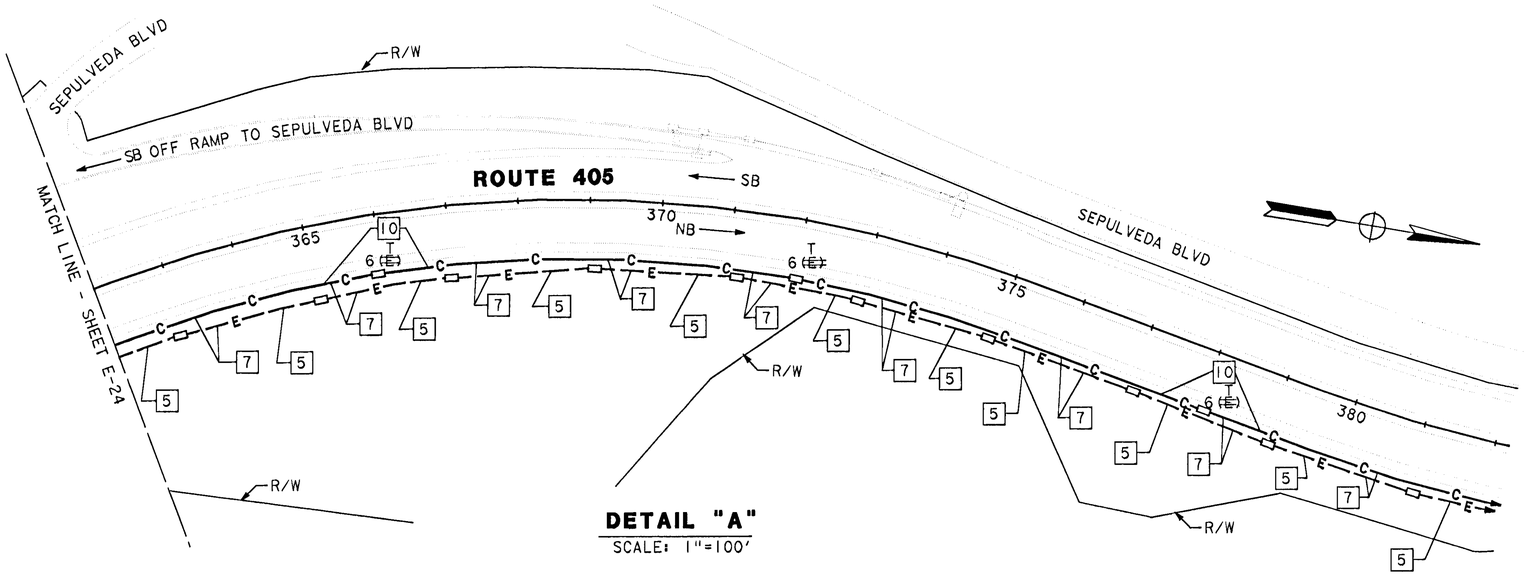
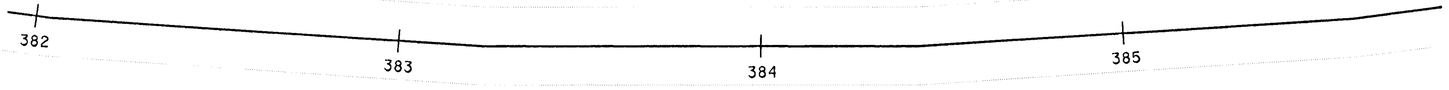
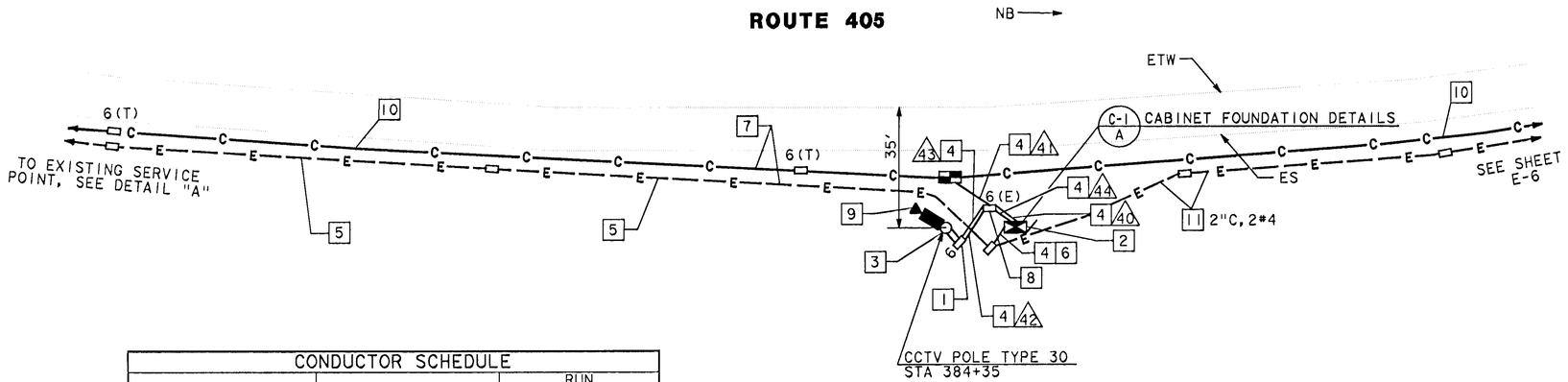


DETAIL "A"
SCALE: 1"=100'





CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN 40	41	42	43	44
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

CAMERA LOCATION SD353, PM 35.3
SCALE : 1" = 20'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

NOTES: (THIS SHEET ONLY)

1. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
2. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. (SEE SHEET E-48, DETAIL A).
3. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
4. TRENCH CONDUIT IN SOIL.
5. INSTALL 2"C, 2#1/0, 2#4
6. INSTALL 1½"C, 2#1/0.
7. INSTALL CONDUITS IN THE SAME TRENCH.
8. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. INCLUDED IN CCTV AND COMUNICATIONS SYSTEM ROUTING PLANS.
11. TRENCH AND INSTALL CONDUIT IN SOIL.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV CAMERA (LOCATION SD353)

SCALE AS NOTED

E-25

LAST REVISION 00-00-00

CALCULATED/ DESIGNED BY	CHECKED BY	DP	RS
DATE 10/93	12/93		
REVISED BY	DATE REVISED		

DESIGN OVERSIGHT — PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

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FORM DC-OE-92-PF (REV. 3/88)

CU 07374 EA 120831

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u26.dgn DATE: Tue May 23 2000 TIME: 12:39

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	70	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

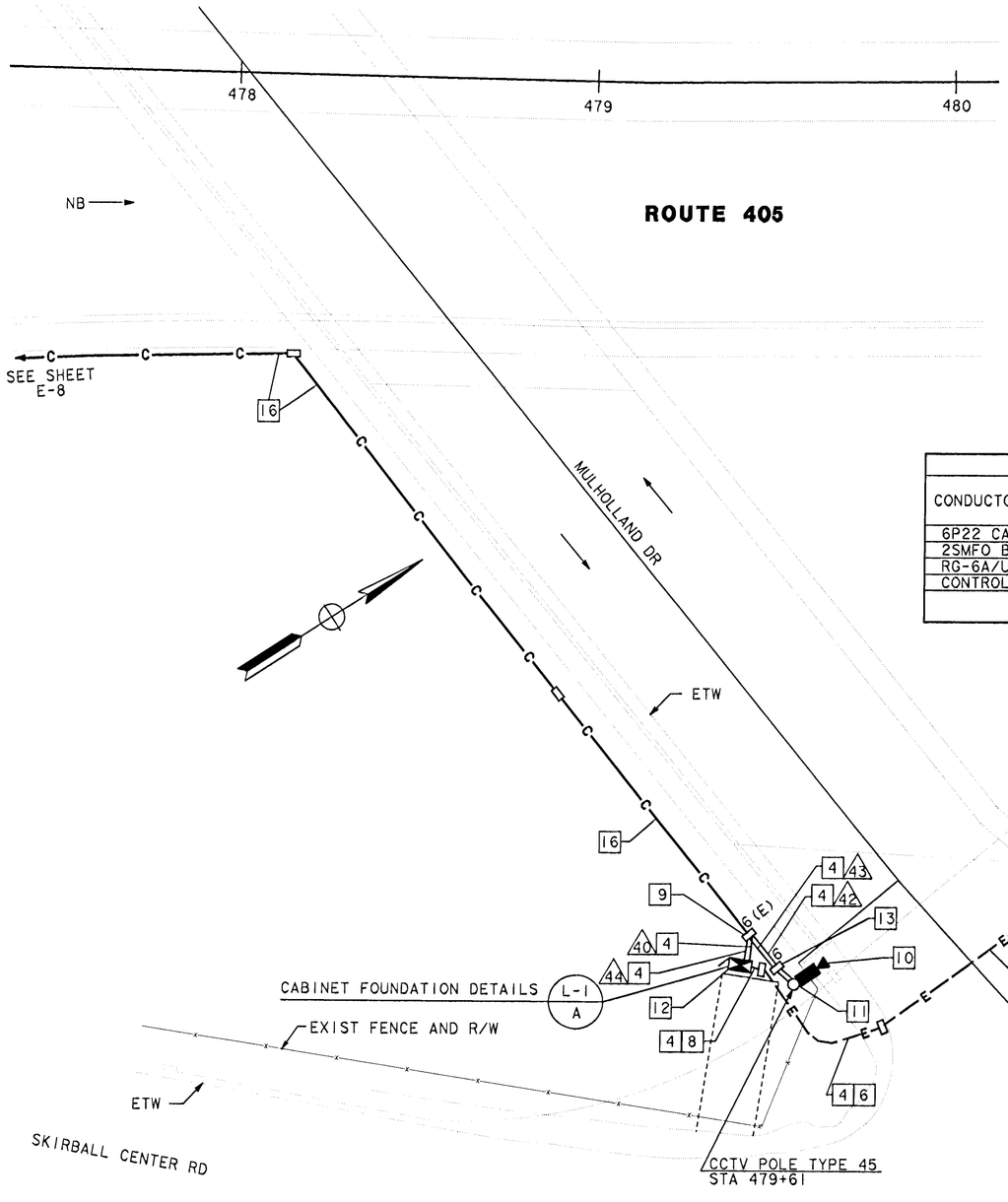
1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

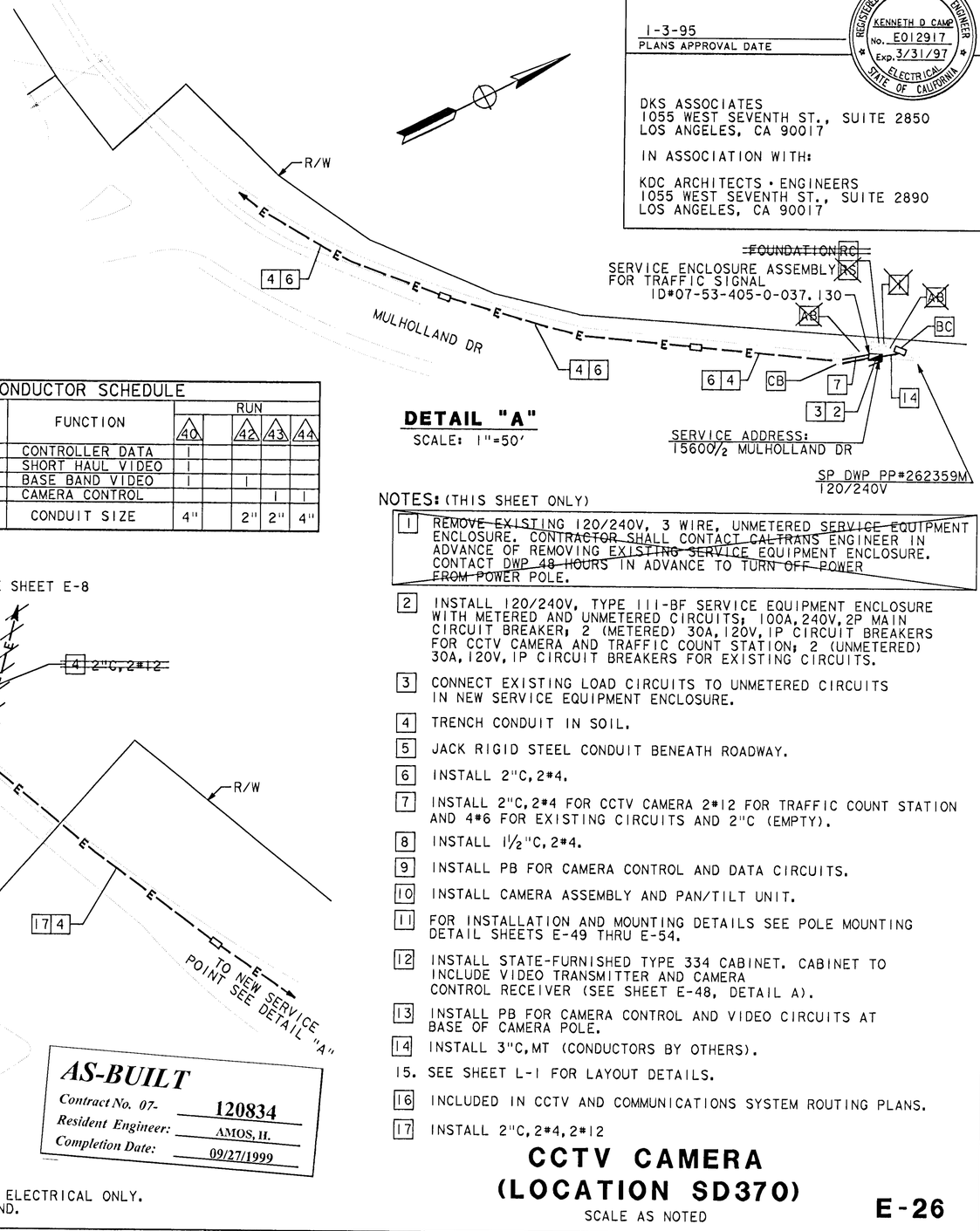
KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017



CAMERA LOCATION SD370, PM 37.0

SCALE : 1" - 20'

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN 40		42	43	44
6P22 CABLE	CONTROLLER DATA	1				
2SMFO B/O CABLE	SHORT HAUL VIDEO	1				
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"		2"	2"	4"



DETAIL "A"

SCALE: 1"=50'

NOTES: (THIS SHEET ONLY)

1. ~~REMOVE EXISTING 120/240V, 3 WIRE, UNMETERED SERVICE EQUIPMENT ENCLOSURE. CONTRACTOR SHALL CONTACT CALTRANS ENGINEER IN ADVANCE OF REMOVING EXISTING SERVICE EQUIPMENT ENCLOSURE. CONTACT DWP 48 HOURS IN ADVANCE TO TURN OFF POWER FROM POWER POLE.~~
2. INSTALL 120/240V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH METERED AND UNMETERED CIRCUITS; 100A, 240V, 2P MAIN CIRCUIT BREAKER; 2 (METERED) 30A, 120V, 1P CIRCUIT BREAKERS FOR CCTV CAMERA AND TRAFFIC COUNT STATION; 2 (UNMETERED) 30A, 120V, 1P CIRCUIT BREAKERS FOR EXISTING CIRCUITS.
3. CONNECT EXISTING LOAD CIRCUITS TO UNMETERED CIRCUITS IN NEW SERVICE EQUIPMENT ENCLOSURE.
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. INSTALL 2"C, 2#4.
7. INSTALL 2"C, 2#4 FOR CCTV CAMERA 2#12 FOR TRAFFIC COUNT STATION AND 4#6 FOR EXISTING CIRCUITS AND 2"C (EMPTY).
8. INSTALL 1½"C, 2#4.
9. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
10. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
11. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
12. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL A).
13. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
14. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
15. SEE SHEET L-1 FOR LAYOUT DETAILS.
16. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
17. INSTALL 2"C, 2#4, 2#12

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

CCTV CAMERA (LOCATION SD370)

SCALE AS NOTED

E-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN OVERSIGHT: PAT SULLIVAN
CALCULATED/DESIGNED BY | CHECKED BY
DP | RS
DATE 10/93 | 12/93
REVISED BY | DATE REVISED
LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYSTIME$$$$$$$

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$
CU 07374
EA 120831

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u26.dgn DATE: Tue May 23 2000 TIME: 12:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	71	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST.,
SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:
KDC ARCHITECTS-ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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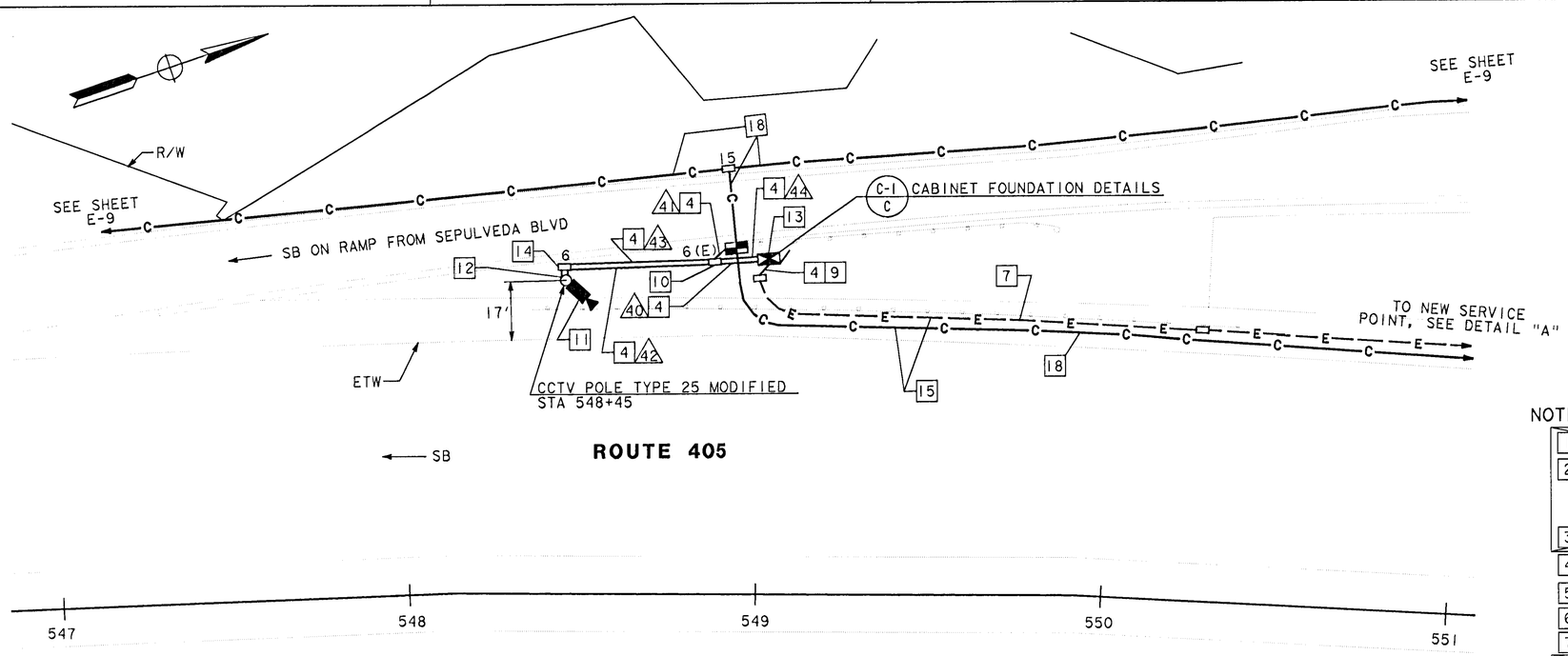
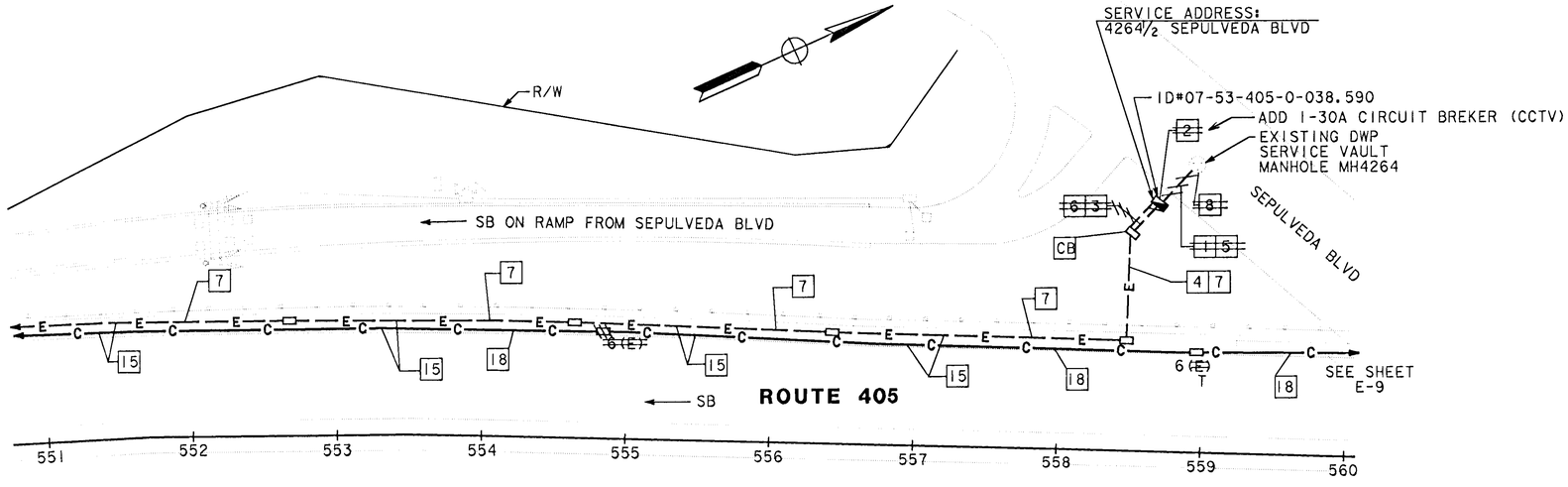


CAMERA LOCATION SD383, PM 38.3

SCALE: 1"=20'



DETAIL "A"

SCALE: 1"=50'

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE (METERED), TYPE III- BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND (METERED) 30A, 120V, 1P BRANCH CIRCUIT BREAKER FOR CCTV CAMERA.
3. INSTALL 2"C, 2#4 AND 2"C (EMPTY)
4. TRENCH CONDUIT IN SOIL.
5. TRENCH CONDUIT IN ASPHALT.
6. TRENCH CONDUIT IN CONCRETE.
7. INSTALL 2"C, 2#4.
8. CONTRACTOR SHALL CONTACT DWP INSPECTOR 3 WORKING DAYS IN ADVANCE FOR ENTRY INTO DWP ELECTRICAL VAULT AND SHALL CONTACT LA CITY INSPECTOR FOR TRENCHING AND INSTALLATION OF CONDUIT.
9. INSTALL 1½"C, 2#4.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
13. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL A).
14. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
15. INSTALL CONDUIT IN THE SAME TRENCH.
16. SEE SHEET L-2 FOR LAYOUT DETAILS.
17. TYPE III-BF SERVICE EQUIPMENT ENCLOSURE ELECTRICAL COMPONENTS (BUS AND CIRCUIT BREAKERS) SHALL HAVE INTERRUPTING CAPACITY ISC=42,000 AMP (ISC-SHORT-CIRCUIT CURRENT).
18. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEMS ROUTING PLANS.

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 40	4	42	43	44
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
SEE SHEET E-1 FOR LEGEND.

CCTV CAMERA (LOCATION SD383)

SCALE AS NOTED

E-27

REVISED BY	DATE REVISED
DP	RS
DATE 10/93	12/93

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$$SYSTIME$$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	72	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

1-3-95
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST.,
SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:
KDC ARCHITECTS-ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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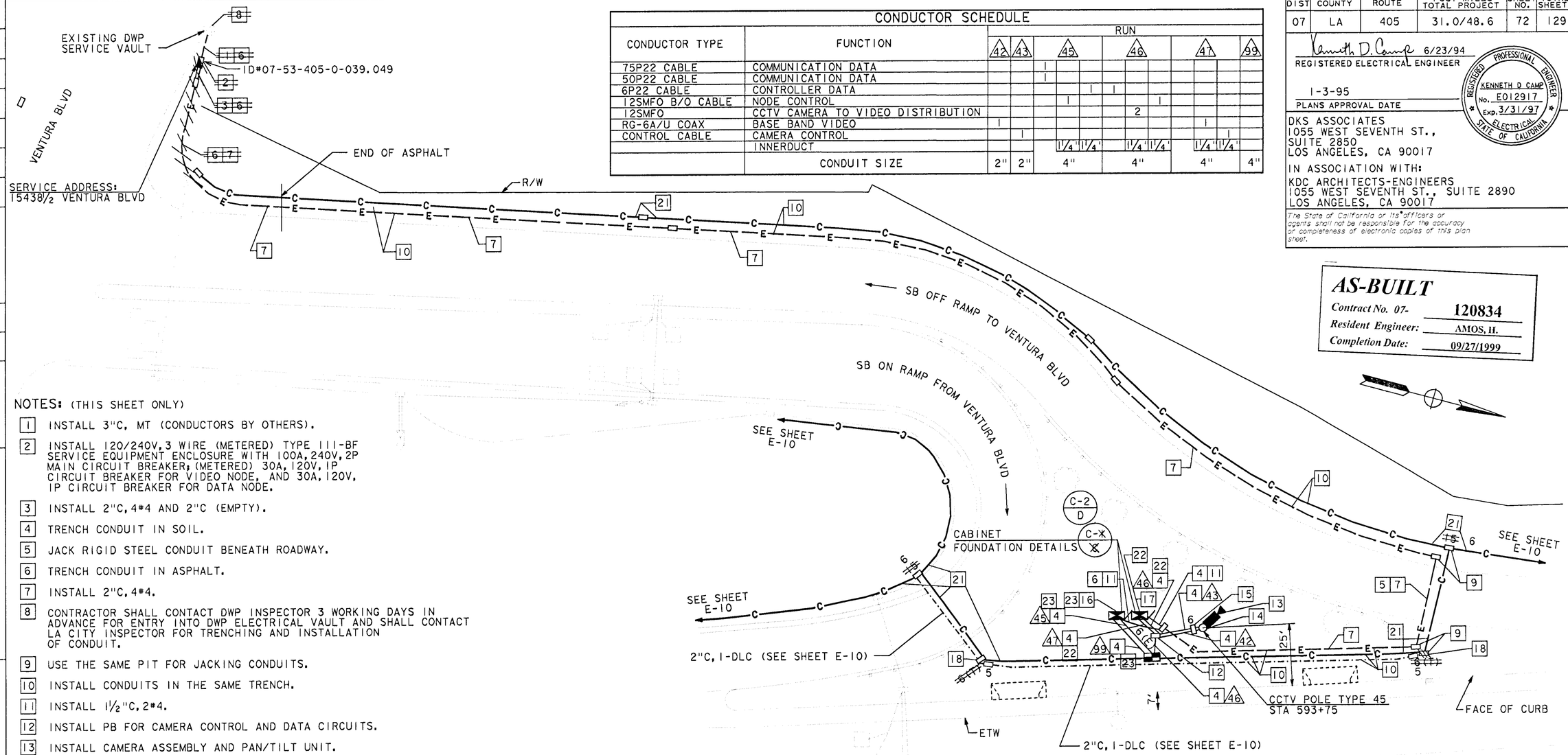
AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CONDUCTOR TYPE	FUNCTION	RUN 42	RUN 43	RUN 45	RUN 46	RUN 47	RUN 99
75P22 CABLE	COMMUNICATION DATA			1			
50P22 CABLE	COMMUNICATION DATA			1			
6P22 CABLE	CONTROLLER DATA			1	1		
12SMFO B/O CABLE	NODE CONTROL			1	1		
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION				2		
RG-6A/U COAX	BASE BAND VIDEO	1				1	
CONTROL CABLE	CAMERA CONTROL		1				1
	INNERDUCT			1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	
	CONDUIT SIZE	2"	2"	4"	4"	4"	4"



NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE (METERED) TYPE 111-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER; (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR VIDEO NODE, AND 30A, 120V, 1P CIRCUIT BREAKER FOR DATA NODE.
3. INSTALL 2"C, 4#4 AND 2"C (EMPTY).
4. TRENCH CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. TRENCH CONDUIT IN ASPHALT.
7. INSTALL 2"C, 4#4.
8. CONTRACTOR SHALL CONTACT DWP INSPECTOR 3 WORKING DAYS IN ADVANCE FOR ENTRY INTO DWP ELECTRICAL VAULT AND SHALL CONTACT LA CITY INSPECTOR FOR TRENCHING AND INSTALLATION OF CONDUIT.
9. USE THE SAME PIT FOR JACKING CONDUITS.
10. INSTALL CONDUITS IN THE SAME TRENCH.
11. INSTALL 1½"C, 2#4.
12. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
13. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
14. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
15. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
16. INSTALL STATE-FURNISHED TYPE 334 CABINET. DATA NODE CABINET TO INCLUDE TWO D4 CHANNEL BANKS (SEE SHEET E-48, DETAIL A).
17. INSTALL STATE-FURNISHED TYPE 334 CABINET. VIDEO NODE CABINET TO INCLUDE 16 CHANNEL VIDEO MULTIPLEXER AND 10 VIDEO RECEIVERS (SEE SHEET E-48, DETAIL B).
18. INSTALL 6(T) PULL BOX, (SEE DETAILS, SHEET C-7).
19. SEE SHEET L-3 FOR LAYOUT DETAILS.
20. TYPE 111-BF SERVICE EQUIPMENT ENCLOSURE ELECTRICAL COMPONENTS (BUS AND CIRCUIT BREAKERS) SHALL HAVE INTERRUPTING CAPACITY ISC=42,000 AMP (ISC-SHORT-CIRCUIT CURRENT).
21. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
22. INCLUDED IN BID ITEM "EQUIPMENT AT VIDEO NODE SD 391."
23. INCLUDED IN BID ITEM "EQUIPMENT AT DATA NODE SD 391."

ROUTE 405

CAMERA LOCATION SD391, PM 39.1
VIDEO/DATA NODE

CCTV CAMERA, EQUIPMENT AT DATA NODE, AND EQUIPMENT AT VIDEO NODE

(LOCATION SD391)

SCALE: 1" = 20'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

E-28

CALCULATED/ DESIGNED BY	CHECKED BY	DP	DATE 10/93	REVISED BY	DATE REVISED
		RS	12/93		

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

USER ID: t7aferno@NODE FILE: /project/120831_ua/ab/t7aferno/712083u29.dgn DATE: Tue May 23 2000 TIME: 09:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	73	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

1-3-95
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST.,
SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:
KDC ARCHITECTS-ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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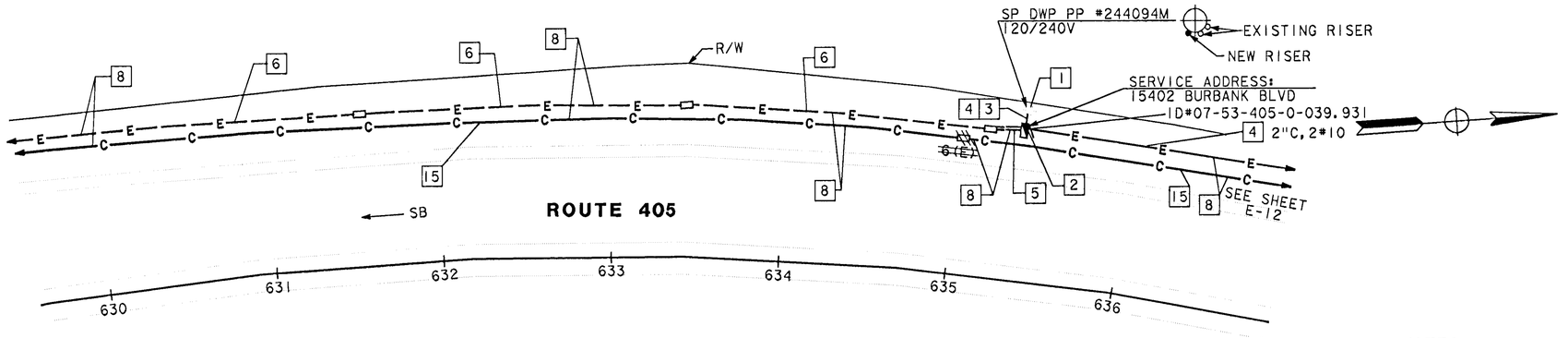
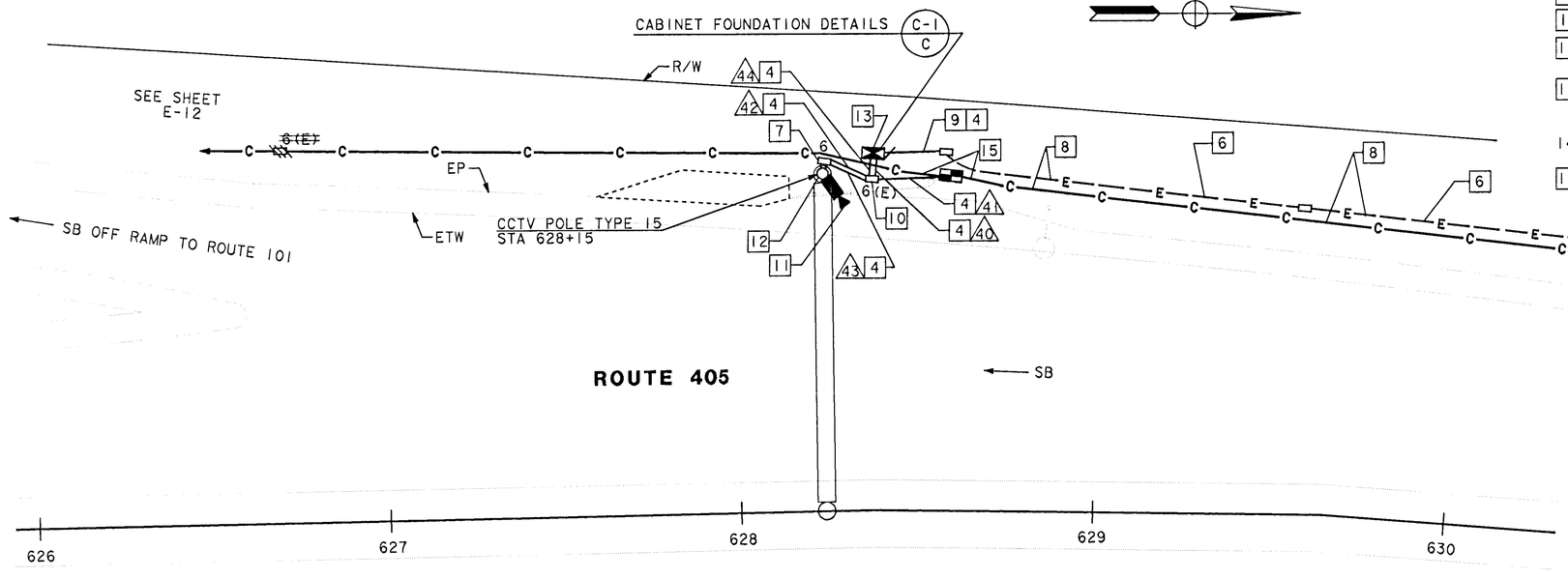


DETAIL "A"
SCALE: 1"=40'

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN				
		40	41	42	43	44
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE (METERED), TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND 2 (METERED) 30A, 120V, 1P CIRCUIT BREAKERS FOR CCTV CAMERA AND TRAFFIC COUNT STATION.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
4. TRENCH CONDUIT IN SOIL.
5. INSTALL 2"C, 2#4 AND 2"C (EMPTY)
6. INSTALL 2"C, 2#4.
7. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF SIGN POLE.
8. INSTALL CONDUITS IN THE SAME TRENCH.
9. INSTALL 1½"C, 2#4.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
12. FOR INSTALLATION AND MOUNTING DETAILS ON SIGN STRUCTURE, SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
13. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL A).
14. SEE SHEET L-4 FOR LAYOUT DETAILS.
15. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.



CAMERA LOCATION SD398, PM 39.8
SCALE: 1"=20'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV CAMERA (LOCATION SD398)
SCALE AS NOTED

E-29

REVISED BY	DATE REVISED
DP	RS
DATE 10/93	12/93

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

USER ID: t7aferno@NODE FILE: /project/120831_ua/ab/t7aferno/712083u29.dgn DATE: Tue May 23 2000 TIME: 09:10

USERID t7aferno@NODE F: /project/120831_ua/ab/t7aferno/712083u30.dgn DATE: Tue May 23 2000 TIME: 07:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	74	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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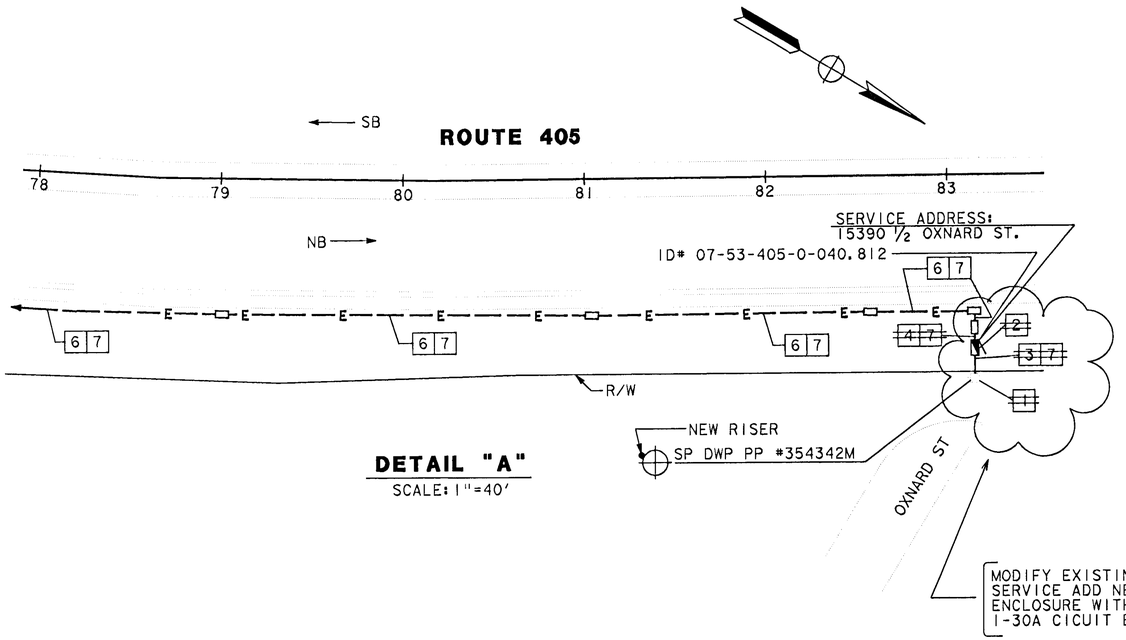
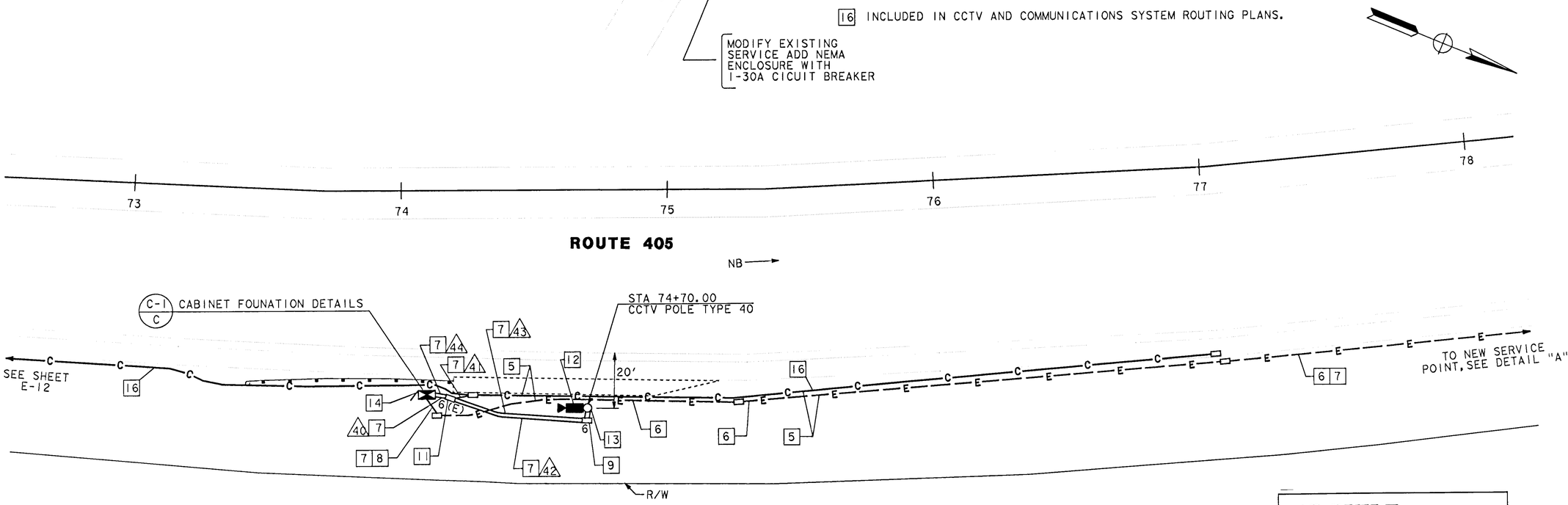


DETAIL "A"
SCALE: 1"=40'

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENT, (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE (METERED), TYPE-III BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR CCTV CAMERA.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
4. INSTALL 2"C, 2#4 AND 2"C (EMPTY).
5. INSTALL CONDUITS IN THE SAME TRENCH.
6. INSTALL 2"C, 2#4.
7. TRENCH CONDUIT IN SOIL.
8. INSTALL 1 1/2"C, 2#4.
9. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
10. OMITTED
11. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
12. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
13. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
14. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL A).
15. SEE SHEET L-5 FOR LAYOUT DETAILS.
16. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.



CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN 40	41	42	43	44
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

CAMERA LOCATION SD407, PM 40.7
SCALE: 1"=20'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV CAMERA (LOCATION SD407)

SCALE AS NOTED

E-30

CALCULATED/ DESIGNED BY	CHECKED BY	DP	DATE 10/93	REVISED BY
		RS	12/93	DATE REVISED

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

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CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

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USERID t7aferno@NODE FILE: /project/120831_ua/ab/t7aferno/712083u30.dgn DATE: Tue May 23 2000 TIME: 07:40

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u31.dgn DATE: Tue May 23 2000 TIME: 07:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	75	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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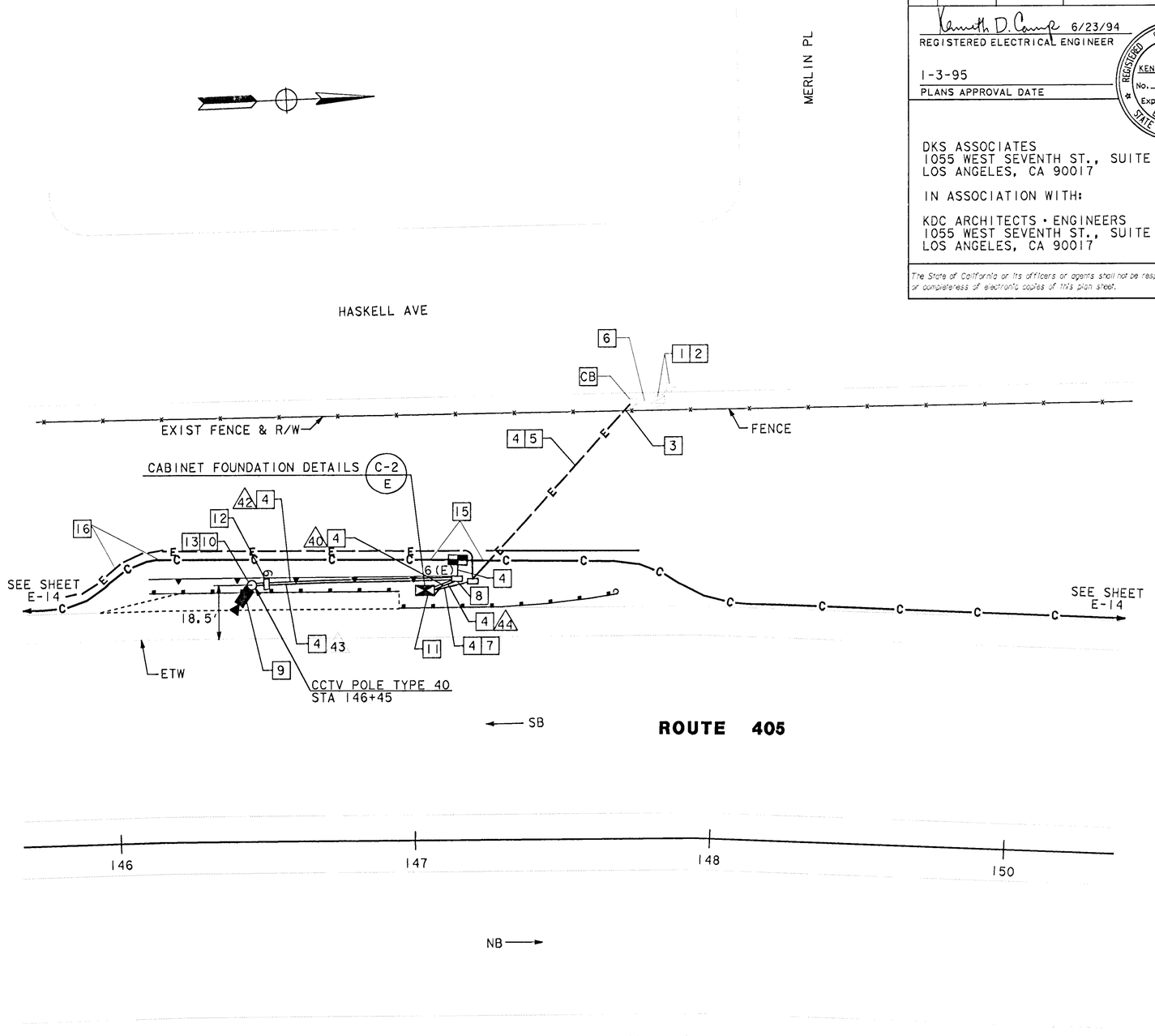
CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN 40	41	42	43	44
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE (METERED), TYPE III-BF SERVICE EQUIPMENT ENCLOSURE: PP#353983M 6929½ HASKELL AVE.
2. ADD 2 (METERED) 30A, 120V, IP BRANCH CIRCUIT BREAKERS FOR CCTV CAMERA AND TRAFFIC COUNT STATION IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. TRENCH CONDUIT BENEATH CHAINLINK FENCE.
4. TRENCH CONDUIT IN SOIL.
5. INSTALL 2"C, 2#8, 2#10.
6. ADD 2#8 AND 2#10 IN EXISTING CONDUIT.
7. INSTALL 1½"C, 2#8.
8. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
9. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
10. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL A).
12. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
13. INSTALL 160 DEGREE CAMERA PAN STOPS TO RESTRICT VIEW INTO RESIDENTIAL AREAS.
14. SEE SHEET L-6 FOR LAYOUT DETAIL.
15. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
16. INSTALL CONDUITS IN SAME TRENCH.



CAMERA LOCATION SD420, PM 42.0

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV CAMERA (LOCATION SD420)

SCALE: 1" = 20'

E-31

CALCULATED/ DESIGNED BY	DP	DATE 10/93	REVISED BY
CHECKED BY	RS	12/93	DATE REVISED

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

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USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u31.dgn DATE: Tue May 23 2000 TIME: 07:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	76	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER · KENNETH D CAMP · No. E012917 · Exp. 3/31/97 · ELECTRICAL · STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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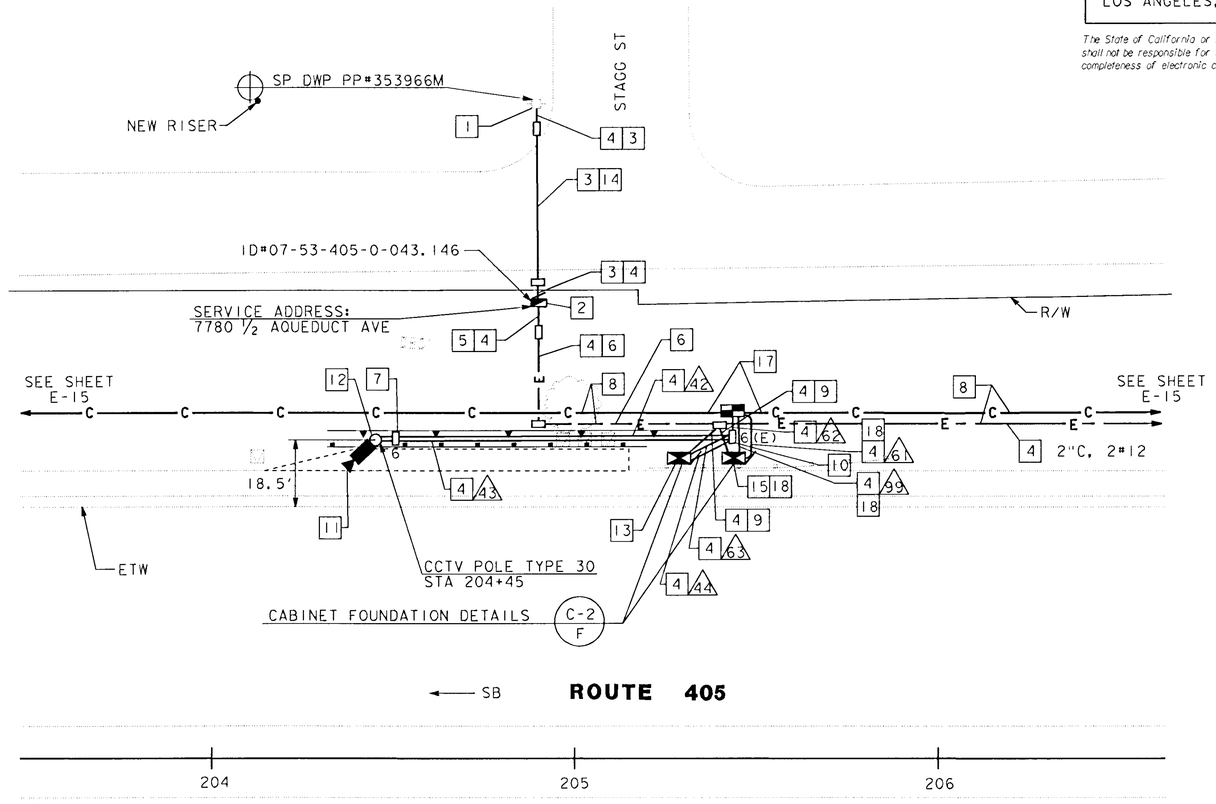
CONDUCTOR SCHEDULE											
CONDUCTOR TYPE	FUNCTION	RUN									
		42	43	44	61			62	63	99	
75P22 CABLE	COMMUNICATION DATA				2						
12SMFO B/O CABLE	NODE CONTROL					1					
2SMFO B/O CABLE	SHORT HAUL VIDEO							1	1		
RG-6A/U COAX	BASE BAND VIDEO	1								1	
CONTROL CABLE	CAMERA CONTROL		1	1							
6P22 CABLE	CONTROLLER DATA						1	1	1		
	INNERDUCT				1 1/4"	1 1/4"					
	CONDUIT SIZE	2"	2"	4"	4"			4"	4"	4"	

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE (METERED), TYPE III-BF3 SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P CIRCUIT BREAKER; (METERED) 30A, 120V, 1P CIRCUIT BREAKERS FOR CCTV CAMERA, TRAFFIC COUNT STATION, AND DATA NODE.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
4. TRENCH CONDUIT IN SOIL.
5. INSTALL 2"C, 4#8 2#12 AND 2"C (EMPTY).
6. INSTALL 2"C, 4#8, 2#12.
7. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
8. INSTALL CONDUITS IN THE SAME TRENCH.
9. INSTALL 1 1/2"C, 2#8.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
12. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
13. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL C).
14. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
15. INSTALL STATE-FURNISHED TYPE 334 CABINET. DATA NODE CABINET TO INCLUDE TWO D4 CHANNEL BANKS (SEE SHEET E-48, DETAIL C).
16. SEE SHEET L-7 FOR LAYOUT DETAILS.
17. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
18. INCLUDED IN BID ITEM "EQUIPMENT AT DATA NODE SD431".



CAMERA LOCATION SD431, PM 43.1
DATA NODE

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV CAMERA AND EQUIPMENT AT DATA NODE (LOCATION SD431)

SCALE: 1" = 20'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
SEE SHEET E-1 FOR LEGEND.

E-32

CALCULATED/DESIGNED BY: DP
CHECKED BY: RS
DATE: 10/93 | 12/93
REVISED BY | DATE REVISED
DESIGN OVERSIGHT: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => 14-JAN-1995 11:40

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => mikesl
DGN FILE => /usr/mikesl/PI/712083u32.dg
CU 07374
EA 120831

SEP D: t7aferna@NODE F: E: /project/120831_ua/ab/t7aferna/712083u33.dan DATE: Tue May 23 2000 TIME: 07:38

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN				
		40	41	42	43	44
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

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DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

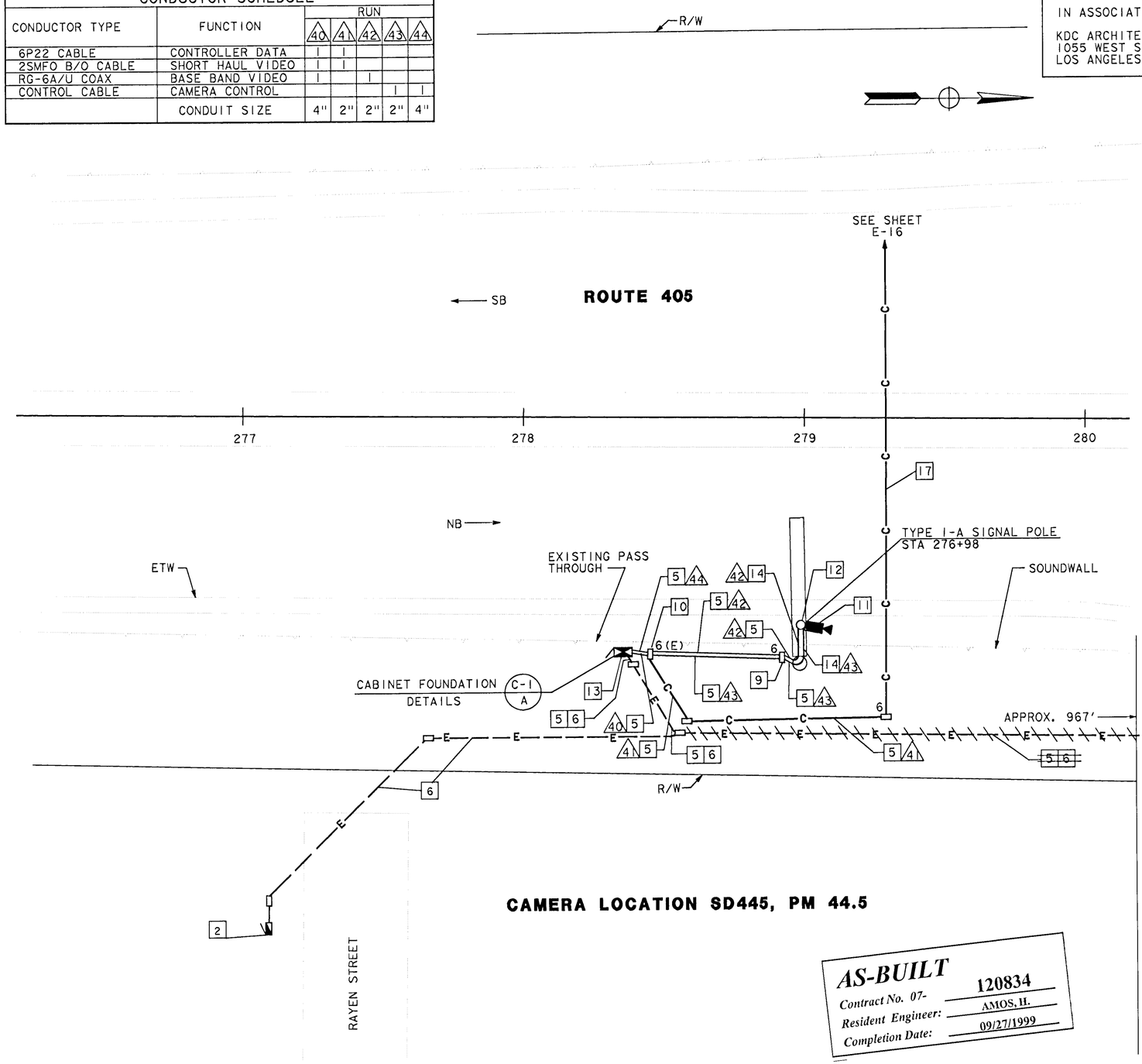
KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	77	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

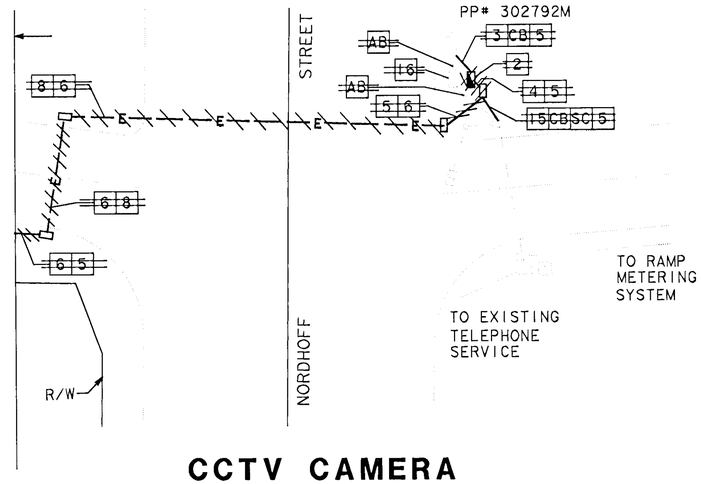


CAMERA LOCATION SD445, PM 44.5

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS, (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE (METERED), TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER, A (METERED) 30A, 120V, IP CIRCUIT BREAKER FOR CCTV CAMERA, A 30A, 120V, IP CIRCUIT BREAKER FOR EXISTING RAMP METER, AND A 20A, 120V, IP CIRCUIT BREAKER FOR EXISTING DEMARCATION BOX.
3. INSTALL 3"C MT, (CONDUCTORS BY OTHERS).
4. INSTALL 2"C, 2#6, 2#8, 2#12 AND 2"C (EMPTY).
5. TRENCH CONDUIT IN SOIL.
6. INSTALL 2"C, 2#6.
7. TRENCH CONDUIT IN ASPHALT.
8. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
9. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF SIGN POLE.
10. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
11. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
12. FOR INSTALLATION AND MOUNTING DETAILS ON SIGN STRUCTURE SEE POLE MOUNTING DETAILS SHEETS E-49 THRU E-54.
13. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER (SEE SHEET E-48, DETAIL A).
14. SEE SHEET E-51 FOR CONDUIT MOUNTING TO POLE.
15. INSTALL 2"C, 2#8, 2#12 FOR EXISTING RAMP METERING SYSTEM.
16. REMOVE EXISTING 120V SERVICE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER TWO WORKING DAYS PRIOR TO REMOVAL.
17. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.



NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY.
SEE SHEET E-1 FOR LEGEND.

CCTV CAMERA (LOCATION SD445)

SCALE: 1" = 20'

E-33

LAST REVISION 00-00-00

DATE	REVISED BY	CALCULATED/ DESIGNED BY	DESIGN OVERSIGHT
10/93	DP	CHECKED BY	PAT SULLIVAN
12/93	RS		
DATE REVISED			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

$$$$$$$$$$DONSPEC$$$$$$$$$$ $$$$$$SYTIME$$$$$$ $$$$$$USERID$$$$$$$$$$

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u33.dan DATE: Tue May 23 2000 TIME: 07:38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	78	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP No. E012917 Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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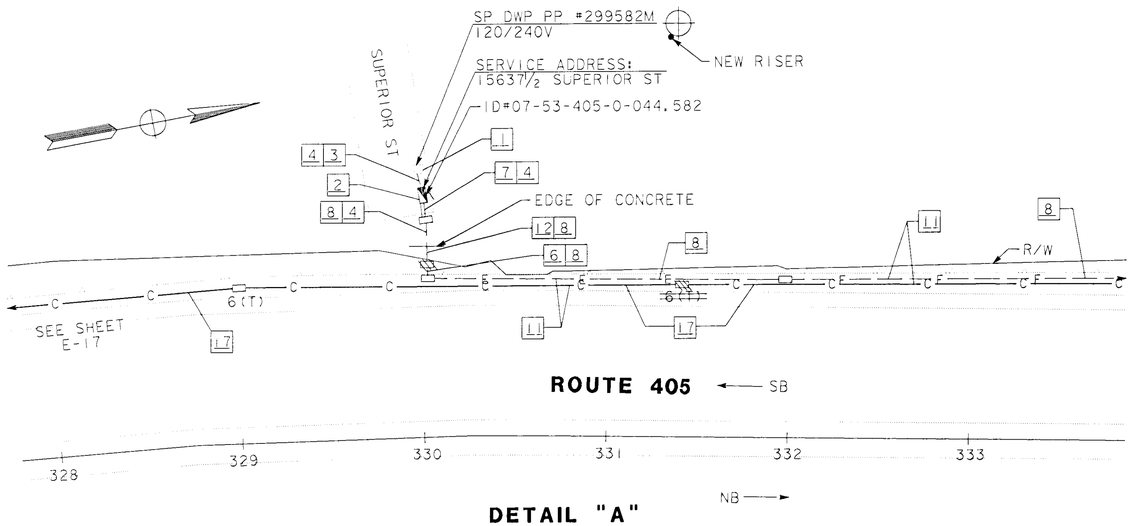
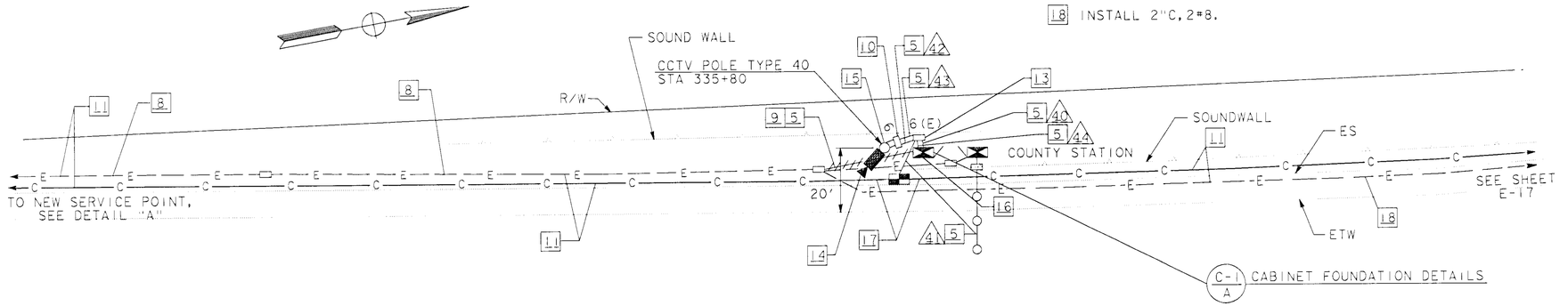


DETAIL "A"
SCALE: 1"=40'

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS, (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE (METERED), TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND 2 (METERED) 30A, 120V, 1P CIRCUIT BREAKERS FOR CCTV CAMERA AND TRAFFIC COUNT STATION.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
4. TRENCH CONDUIT IN CONCRETE.
5. TRENCH CONDUIT IN ASPHALT.
6. CORE 2" GALVANIZED STEEL CONDUIT THROUGH THE SOUND WALL. SEE DETAIL SHEET C-7.
7. INSTALL 2"C, 2#4, 2#8 AND 2"C (EMPTY).
8. INSTALL 2"C, 2#4, 2#8.
9. INSTALL 1½"C, 2#4.
10. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF CAMERA POLE.
11. INSTALL CONDUITS IN THE SAME TRENCH.
12. TRENCH CONDUIT IN SOIL.
13. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
14. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
15. FOR INSTALLATION AND MOUNTING DETAILS SEE POLE MOUNTING DETAIL SHEETS E-49 THRU E-54.
16. INSTALL STATE-FURNISHED TYPE 334 CABINET. CABINET TO INCLUDE VIDEO TRANSMITTER AND CAMERA CONTROL RECEIVER. (SEE SHEET E-48, DETAIL A).
17. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.
18. INSTALL 2"C, 2#8.



CAMERA LOCATION SD456, PM 45.6
SCALE: 1" = 20'

CONDUCTOR SCHEDULE						
CONDUCTOR TYPE	FUNCTION	RUN				
		40	41	42	43	44
6P22 CABLE	CONTROLLER DATA	1	1			
2SMFO B/O CABLE	SHORT HAUL VIDEO	1	1			
RG-6A/U COAX	BASE BAND VIDEO	1		1		
CONTROL CABLE	CAMERA CONTROL				1	1
	CONDUIT SIZE	4"	2"	2"	2"	4"

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV CAMERA (LOCATION SD456)

SCALE AS NOTED

E-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN OVERSIGHT — PAT SULLIVAN
CALCULATED/DESIGNED BY
CHECKED BY
DP — RS
DATE REVISED 12/93 — REVISED BY 10/93
LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$$SYSTIME$$$$$$$$

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$
CU 07374
EA 120831

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u35.dgn DATE: Tue May 23 2000 TIME: 07:31

TO NEW SERVICE POINT, SEE DETAIL "A"

ROUTE 118 CONN TO ROUTE 405

CHATSWORTH ST

EXISTING EDGE OF OVERHEAD RAMP

CABINET FOUNDATION DETAILS C-1 / A

SEE DETAIL"B"

80'CCTV TOWER STA 339+66

CABINET FOUNDATION DETAILS C-2 / D

ROUTE 118 CONNECTOR RAMP TO ROUTE 405

SEE SHEET E-19

RIP RAP PAVEMENT

ROUTE 405 CONNECTOR RAMP TO ROUTE 118

SEE SHEET E-19

ETW

EXISTING EDGE OF OVERHEAD RAMP

ROUTE 405 CONNECTOR RAMP TO ROUTE 405

SB

ROUTE 405

397 398 399 400

NB

DETAIL B
NO SCALE

CAMERA LOCATION SD468, PM 46.8
VIDEO/DATA NODE
SCALE: 1" = 20'

SERVICE ADDRESS:
15707 1/2 CHATSWORTH AVE

CHATSWORTH ST

ROUTE 118 CONNECTOR TO ROUTE 405

DETAIL A
SCALE: 1"=50'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY. SEE SHEET E-1 FOR LEGEND.

NOTES: (THIS SHEET ONLY)

1. EXISTING 120/240V, 3 WIRE (METERED), TYPE III-BF SERVICE EQUIPMENT ENCLOSURE: 15707 1/2 CHATSWORTH ST.
2. ADD (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR VIDEO NODE AND (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR DATA NODE IN EXISTING SERVICE EQUIPMENT ENCLOSURE.
3. ADD 4#6 IN EXISTING CONDUIT.
4. TRENCH CONDUIT IN SOIL.
5. INSTALL 2"C, 4#6.
6. INSTALL 1 1/2"C, 2#6.
7. INSTALL PB FOR CAMERA CONTROL AND DATA CIRCUITS.
8. INSTALL CAMERA ASSEMBLY AND PAN/TILT UNIT.
9. FOR INSTALLATION AND MOUNTING DETAILS SEE TOWER ATTACHMENT DETAILS, SHEET E-53.
10. INSTALL PB FOR CAMERA CONTROL AND VIDEO CIRCUITS AT BASE OF TOWER.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET. DATA NODE CABINET TO INCLUDE TWO D4 CHANNEL BANKS (SEE SHEET E-48, DETAIL B).
12. INSTALL STATE-FURNISHED TYPE 334 CABINET. VIDEO NODE CABINET TO INCLUDE 16 CHANNEL VIDEO MULTIPLEXER AND 3 VIDEO RECEIVERS (SEE SHEET E-48, DETAIL B).
13. CONNECT 6P22 TO CONTROLLER, USE CONDUIT FROM PB INTO CABINET.
14. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
15. INCLUDED IN BID ITEM "EQUIPMENT AT DATA NODE SD468".
16. INCLUDED IN BID ITEM "EQUIPMENT AT VIDEO NODE SD468".

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 42	43	45	47	58	99
75P22 CABLE	COMMUNICATION DATA			1			
50P22 CABLE	COMMUNICATION DATA			1			
6P22 CABLE	CONTROLLER DATA				1		
12SMFO B/O CABLE	NODE CONTROL			1		1	
12SMFO	CCTV CAMERA TO VIDEO DIST						1
RG-6A/U COAX	BASE BAND VIDEO	1			1		
CONTROL CABLE	CAMERA CONTROL		1		1		
	INNERDUCT			1 1/4" 1 1/4"	1 1/4" 1 1/4"	1 1/4" 1 1/4"	
	CONDUIT SIZE	2"	2"	4"	4"	4"	4"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	79	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

CCTV CAMERA, EQUIPMENT AT DATA NODE, AND EQUIPMENT AT VIDEO NODE (LOCATION SD468)

SCALE AS NOTED

E-35

DATE	REVISED BY
10/93	DP
12/93	RS

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYSTIME$$$$$$

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 07374 EA 120831

FORM DC-OE-92-PF (REV. 3/88)

USER ID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u35.dgn DATE: Tue May 23 2000 TIME: 07:31

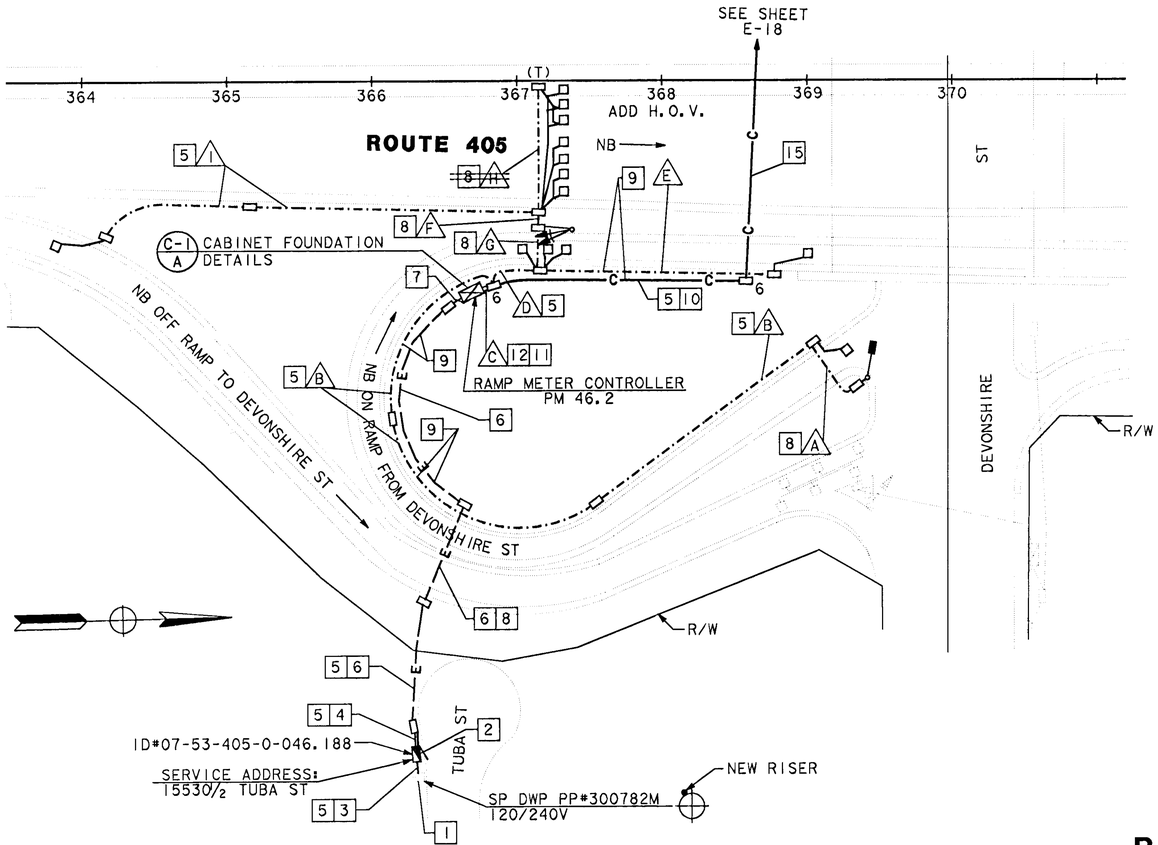
USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u36.dgn DATE: Tue May 23 2000 TIME: 07:30

RAMP METER CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	A	B	C	D	E	F	G	H	I
#14	RAMP SIGNAL			3	3			3		
	SPARES			3	3			3		
	TOTAL			6	6			6		
#10	SIGNAL COMMON			1	1			1		
	METER-ON SIGN	2	2	2						
	TOTAL	2	2	3	1			1		
DLC	QUEUE DETECTOR		1	1						
	DEMAND DETECTOR			1	1					
	PASSAGE DETECTOR			1	1					
	SURVELLANCE DETECTOR			6	6		6	6	2	
	COUNT DETECTOR			2	2	1	1	1		1
	SPARE (HOV)			1	1		1	1	1	
	TOTAL		1	12	11		8	8	3	1
	CONDUIT SIZE (INCHES)	2"	2"	2-3"	3"	1½"	2"	3"	2"	1½"

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE (METERED), TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 2P MAIN CIRCUIT BREAKER AND (METERED) 30A, 120V, IP CIRCUIT BREAKER FOR RAMP METERING SYSTEM.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
4. INSTALL 2"C, 2#6 AND 2"C (EMPTY).
5. TRENCH CONDUIT IN SOIL.
6. INSTALL 2"C, 2#6.
7. INSTALL 1½"C, 2#6.
8. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
9. INSTALL CONDUITS IN THE SAME TRENCH.
10. INSTALL 1-6P22 CABLE IN 2" CONDUIT.
11. INSTALL 6P22 IN CONDUIT RUN (C).
12. CONNECT 6P22 TO RAMP METERING EQUIPMENT IN CABINET.
13. FOR RAMP METERING DETAILS AND NOTES SEE SHEET E-41.
14. LOCATIONS OF POLES, PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
15. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	80	129

6/23/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — VIOREL N PREDESCU No. 13472 Exp. 9/30/94 ELECTRICAL — STATE OF CALIFORNIA

1-3-95
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

WILLIAM J. YANG AND ASSOCIATES
847 N. HOLLYWOOD WAY, SUITE 100
BURBANK, CA 91505-2826

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- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

RAMP METERING SYSTEM (LOCATION 1371)

SCALE: 1"=50'

E-36

DESIGN OVERSIGHT: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CALCULATED/DESIGNED BY | CHECKED BY | RWF 11/93 | PRO 12/93 | REVISED BY | DATE REVISED
LAST REVISION 00-00-00
TIME PLOTTED -> $$$$$$SYSTIME$$$$$$

USERID: t7aferna@NODE FILE: /project/120831_ua/ab/t7aferna/712083u36.dgn DATE: Tue May 23 2000 TIME: 07:30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	81	129

6/23/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
VIOREL N PREDESCU
No. 13472
Exp. 9/30/94
ELECTRICAL
STATE OF CALIFORNIA

1-3-95
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

WILLIAM J. YANG AND ASSOCIATES
847 N. HOLLYWOOD WAY, SUITE 100
BURBANK, CA 91505-2826

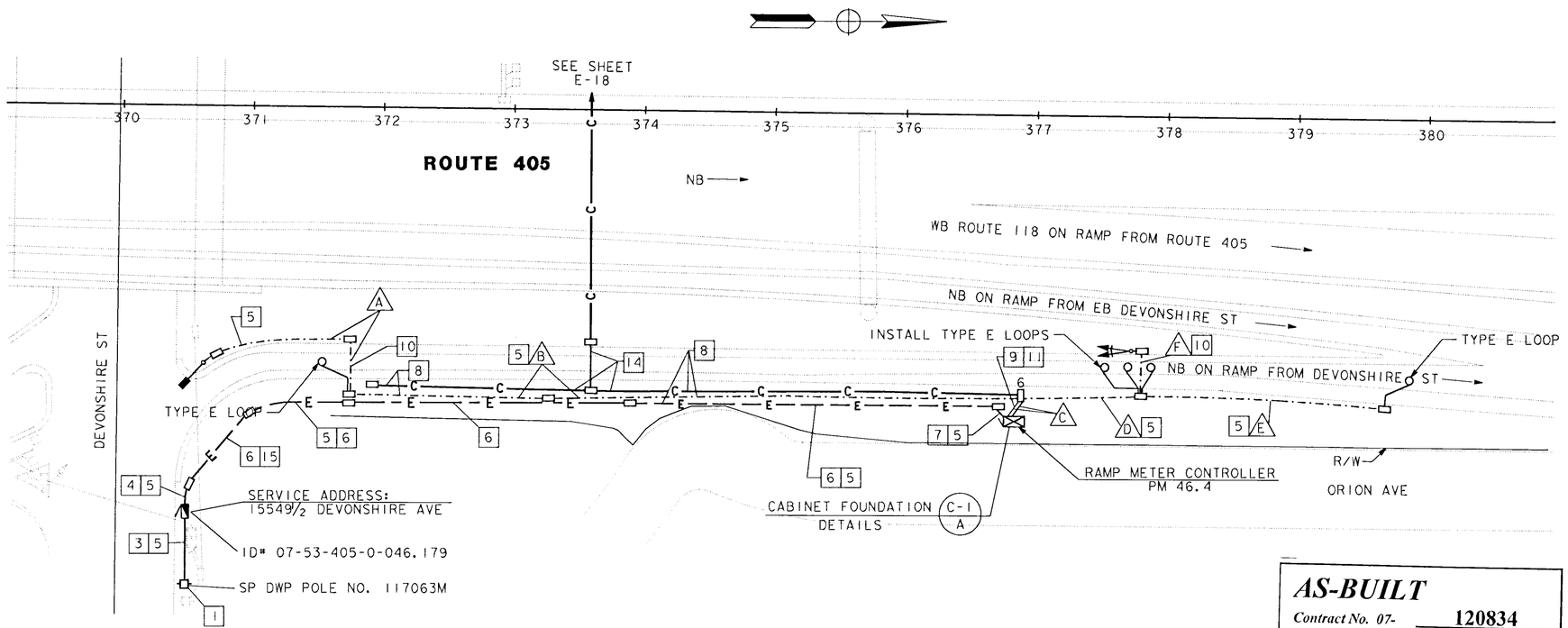
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY, (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE (METERED), TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR RAMP METERING SYSTEM.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
4. INSTALL 2"C, 2#4 AND 2"C (EMPTY).
5. TRENCH CONDUIT IN SOIL.
6. INSTALL 2"C, 2#4.
7. INSTALL 1½"C, 2#4.
8. INSTALL CONDUITS IN THE SAME TRENCH.
9. CONNECT 6P22 TO RAMP METERING EQUIPMENT IN CABINET.
10. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
11. INSTALL 6P22 IN CONDUIT RUN (C).
12. FOR RAMP METERING DETAILS AND NOTES SEE SHEET E-41.
13. LOCATIONS OF POLES, PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
14. INCLUDED IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.
15. TRENCH FOR CONDUIT IN CONCRETE

RAMP METER CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	A	B	C	D	E	F
#14	RAMP SIGNAL			3	3		3
	SPARES			3	3		3
	TOTAL			6	6		6
#10	SIGNAL COMMON			1	1		1
	METER-ON SIGN	2	2	2			
	TOTAL	2	2	3	1		1
DLC	QUEUE DETECTOR		1	1			
	DEMAND DETECTOR			1	1		
	PASSAGE DETECTOR			1	1		
	COUNT DETECTOR			1	1	1	
	TOTAL		1	4	3	1	
	CONDUIT SIZE (INCHES)	2"	2"	2-3"	2"	1½"	2"



AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

RAMP METERING SYSTEM (LOCATION 1372)

SCALE: 1" = 50'

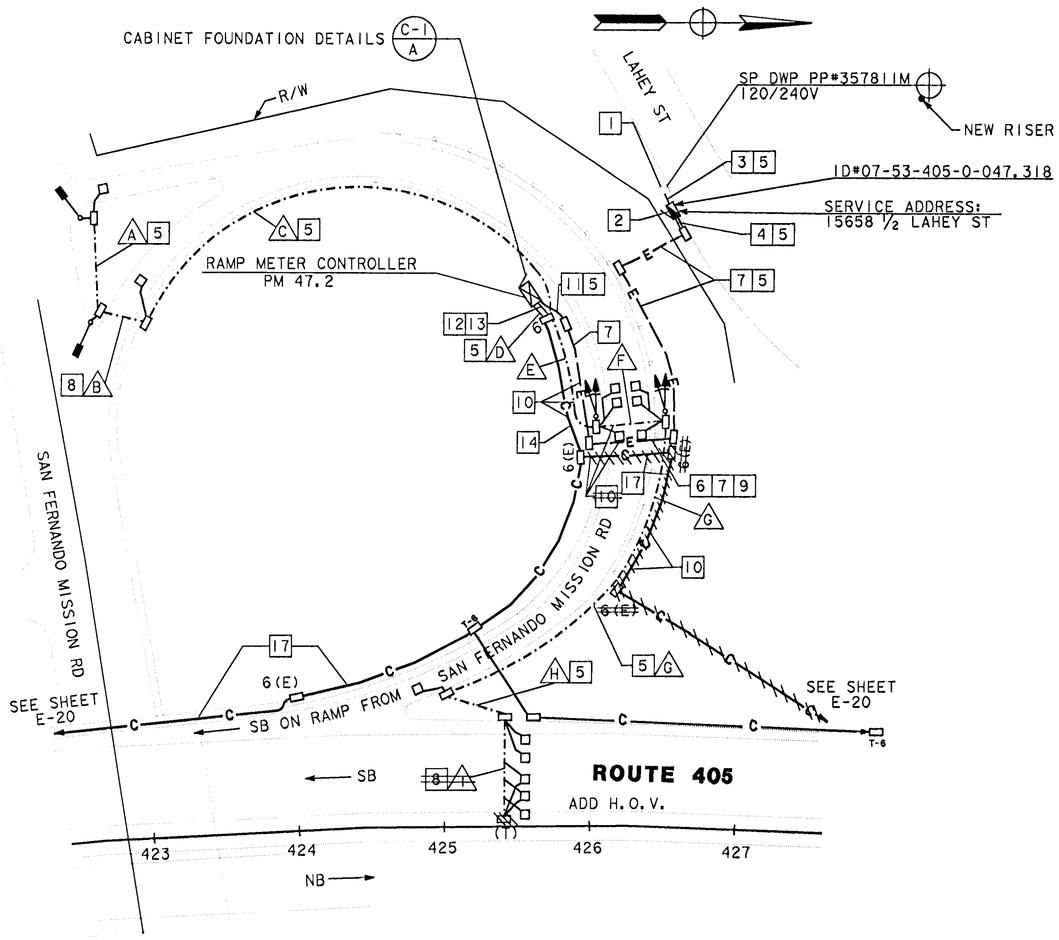
E-37

CALCULATED/ DESIGNED BY	RWF	DATE 11/93	REVISED BY
CHECKED BY	PRO	12/93	DATE REVISED

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => 14-JAN-1995 12:35



RAMP METER CONDUCTOR SCHEDULE										
AWG OR CABLE	CONDUCTOR RUN	A	B	C	D	E	F	G	H	I
#14	RAMP SIGNAL				6	6	3			
	SPARES				3	3	3			
	TOTAL				9	9	6			
#10	SIGNAL COMMON				1	1	1			
	METER-ON SIGN	2	2	2	2					
	TOTAL	2	2	2	3	1	1			
DLC	QUEUE DETECTOR	1	1	2	2					
	DEMAND DETECTOR				2	2	1			
	PASSAGE DETECTOR				2	2	1			
	SURVEILLANCE DETECTOR				4	4	4	4	4	2
	COUNT DETECTOR				1	1	1	1		
	SPARE (HOV)				1	1	1	1	1	1
	TOTAL	1	1	2	12	10	8	6	5	3
	CONDUIT SIZE (INCHES)	1½"	2"	2"	2-3"	3"	2"	2"	2"	2"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	82	129

6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
VIOREL N PREDESCU
No. 13472
Exp. 9/30/94
ELECTRICAL
STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

WILLIAM J. YANG AND ASSOCIATES
847 N. HOLLYWOOD WAY, SUITE 100
BURBANK, CA 91505-2826

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.

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENT (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR RAMP METERING SYSTEM.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS)
4. INSTALL 2"C, 2#8 AND 2"C (EMPTY).
5. TRENCH CONDUIT IN SOIL.
6. TRENCH CONDUITS IN ASPHALT.
7. INSTALL 2"C, 2#8.
8. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
9. CONTRACTOR SHALL CONTACT CALTRANS ENGINEER IN ADVANCE FOR TRENCHING THE ROADWAY.
10. INSTALL CONDUITS IN THE SAME TRENCH.
11. INSTALL 1½"C, 2#8.
12. INSTALL 6P22 IN CONDUIT RUN (D).
13. CONNECT 6P22 TO RAMP METERING EQUIPMENT IN CABINET.
14. INSTALL 2"C, 1-6P22.
15. FOR RAMP METERING DETAILS AND NOTES SEE SHEET E-41.
16. LOCATIONS OF POLES, PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
17. INCLUDE IN CCTV AND COMMUNICATIONS SYSTEM ROUTING PLANS.

AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

RAMP METERING SYSTEM (LOCATION 1377)

SCALE: 1" = 50'

E-38

	DATE	REVISED BY
CALCULATED/DESIGNED BY	RWF	11/93
CHECKED BY	PRO	12/93

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 07374 EA 120831

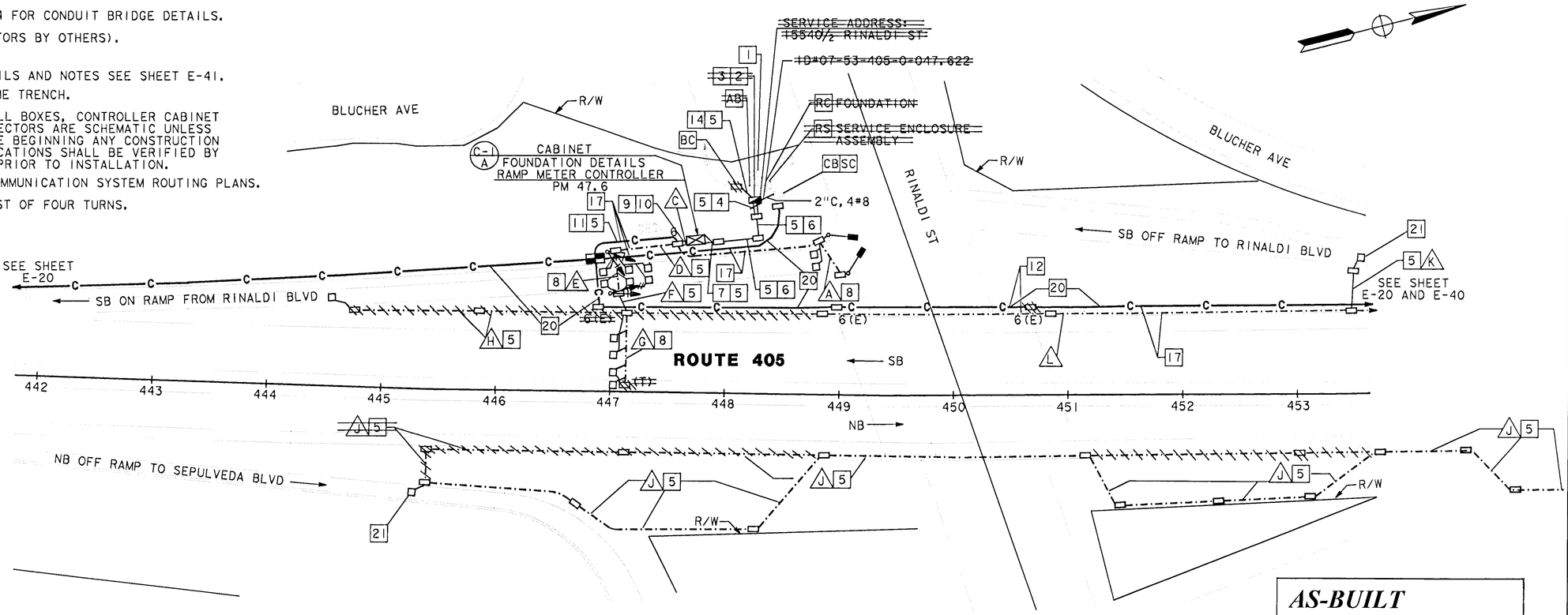
USER ID: t7aferno@NODE FILE: /project/120831_ua/ab/t7aferno/712083u39.dgn DATE: Tue May 23 2000 TIME: 07:27

NOTES: (THIS SHEET ONLY)

1. ~~REMOVE EXISTING 120/240V, 3 WIRE (UNMETERED) SERVICE EQUIPMENT ENCLOSURE. CONTRACTOR SHALL CONTACT CALTRANS ENGINEER IN ADVANCE OF REMOVING EXISTING SERVICE EQUIPMENT ENCLOSURE AND SHALL CONTACT DWP 48 HRS IN ADVANCE TO TURN OFF POWER FROM POWER POLE PP#262130M.~~ ADD 1-30A CIRCUIT BREAKER FOR RAMP METERING
2. ~~INSTALL 120/240V, 3 WIRE (METERED), TYPE 111-BF SERVICE EQUIPMENT ENCLOSURE WITH METERED AND UMETERED CIRCUITS, 100A, 240V, 2P MAIN CIRCUIT BREAKER; (METERED) 30A, 120V, 1P CIRCUIT BREAKER FOR RAMP METERING SYSTEM, AND (UNMETERED) (2) 20A, 120V, 1P CIRCUIT BREAKER FOR EXISTING IRRIGATION.~~
3. ~~CONNECT EXISTING LOAD CIRCUITS TO UNMETERED CIRCUITS IN NEW SERVICE EQUIPMENT ENCLOSURE.~~
4. INSTALL 2"C, 2#8 AND ~~2"C (EMPTY).~~
5. TRENCH CONDUIT IN SOIL.
6. INSTALL 2"C, 2#8.
7. INSTALL 1½"C, 2#8.
8. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
9. INSTALL 6P22 IN CONDUIT RUN (C).
10. CONNECT 6P22 TO RAMP METERING EQUIPMENT IN CABINET.
11. INSTALL 2"C, 1-6P22.
12. SEE SHEETS E-20 AND C-4 FOR CONDUIT BRIDGE DETAILS.
14. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
15. INSTALL 2"C, 4#8.
16. FOR RAMP METERING DETAILS AND NOTES SEE SHEET E-41.
17. INSTALL CONDUITS IN SAME TRENCH.
19. LOCATIONS OF POLES, PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
20. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.
21. LOOP DETECTOR TO CONSIST OF FOUR TURNS.

RAMP METER CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)	(L)
#14	RAMP SIGNAL			6	6	3						
	SPARES			3	3	3						
	NB COUNT DETECTORS											
	TOTAL			9	9	6						
#10	SIGNAL COMMON			1	1	1						
	METER-ON SIGN	2	2	2								
	TOTAL	2	2	3	1	1						
#8	SERVICE (BOOSTER)											
	TOTAL											
DLC	QUEUE DETECTOR		2	2								
	DEMAND DETECTOR			2	2	1						
	PASSAGE DETECTOR			2	2	1						
	SURVEILLANCE DETECTOR			3	3	3	3	1				
	SB COUNT DETECTOR			2	2	2	2		1		1	1
	NB COUNT DETECTOR									1		
	SPARE (HOV)			1	1	1	1	1				
	TOTAL		2	12	10	8	6	2	1	1	1	1
	CONDUIT SIZE (INCHES)	2"	2"	2-3"	3"	2"	2"	2"	1½"	1½"	1½"	2"



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	83	129

6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — VIOREL N PREDESCU No. 13472 Exp. 9/30/94 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

WILLIAM J. YANG AND ASSOCIATES
847 N. HOLLYWOOD WAY, SUITE 100
BURBANK, CA 91505-2826

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AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

RAMP METERING SYSTEM (LOCATION 1376)

SCALE: 1" = 50'

E-39

CALCULATED/DESIGNED BY: RWF
CHECKED BY: PRO
DATE REVISED: 12/93
REVISED BY: DATE 11/93
DESIGN OVERSIGHT: PAT SULLIVAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$$SYTIM $$$$$$

USER ID: t7aferno@NODE FILE: /project/120831_ua/ab/t7aferno/712083u39.dgn DATE: Tue May 23 2000 TIME: 07:27

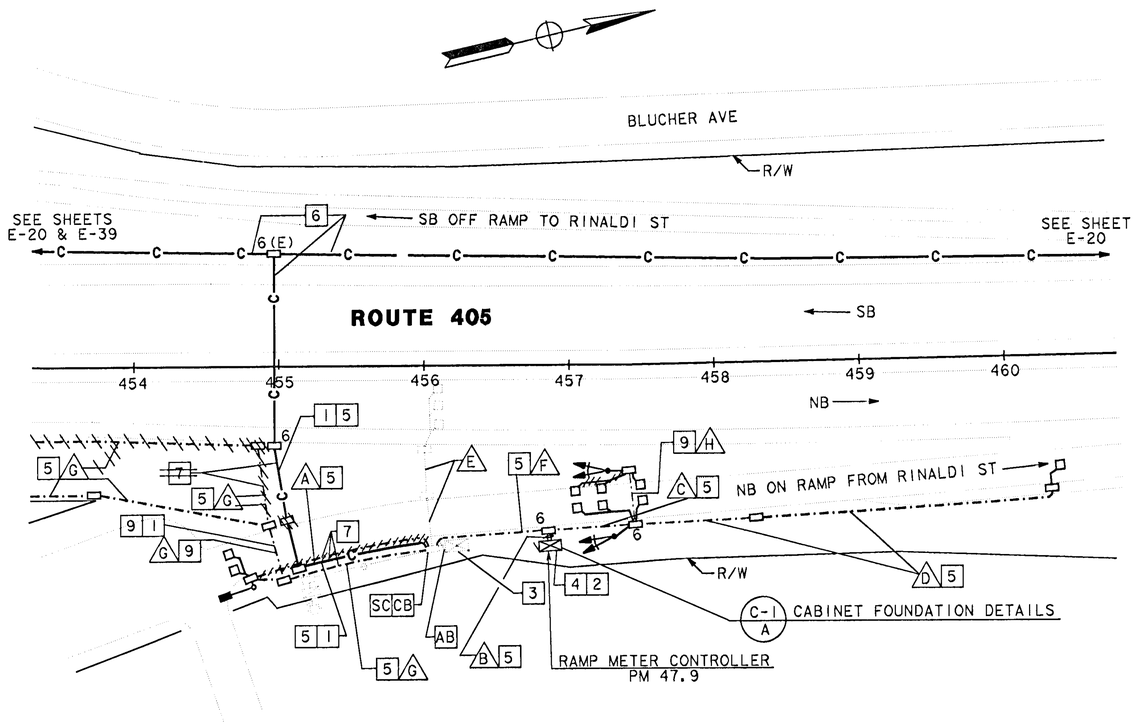
RAMP METER CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	A	B	C	D	E	F	G	H
#14	RAMP SIGNAL		6	6					3
	SPARES		3	3					3
	TOTAL		9	9					6
#10	SIGNAL COMMON		1	1					1
	METER-ON SIGN	2	2				2		
	TOTAL	2	3	1			2		1
#22	I-6P CABLE		1				1		
#8	SERVICE		2				2		
	TOTAL		2				2		
DLC	QUEUE DETECTOR	2	2				2		
	DEMAND DETECTOR		2	2					1
	PASSAGE DETECTOR		2	2					1
	SURVEILLANCE DETECTOR		3			3A	3		
	COUNT DETECTOR		1	1	1				
	SPARE (HOV)		1			1A	1		
	NB COUNT DETECTOR		1				1	1	
	TOTAL	2	12	5	1	4A	7	1	2
	CONDUIT SIZE (INCHES)	2"	2-3"	3"	1½"	E	3"	1½"	3"

E= EXISTING CONDUIT OR CONDUCTOR
A= ADD CONDUCTOR OR CABLE TO EXISTING CONDUIT.

NOTES: (THIS SHEET ONLY)

1. INSTALL 2"C, I-6P22.
2. INSTALL STATE-FURNISHED RAMP METER CABINET AND CONTROLLER.
3. REMOVE AND SALVAGE EXISTING TRAFFIC MONITORING STATION CABINET AND CONTROLLER.
4. CONNECT 6P22 TO RAMP METERING EQUIPMENT IN CABINET.
5. TRENCH CONDUIT IN SOIL.
6. INCLUDED IN CCTV AND COMMUNICATION SYSTEM ROUTING PLANS.
7. INSTALL CONDUITS IN THE SAME TRENCH.
8. LOCATIONS OF POLES, PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
9. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
10. FOR RAMP METERING DETAILS AND NOTES SEE SHEET E-41.



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	84	129

6/23/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — YIOREL N PREDESCU — No. 13472 — Exp. 9/30/94 — ELECTRICAL — STATE OF CALIFORNIA

1-3-95
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

WILLIAM J. YANG AND ASSOCIATES
847 N. HOLLYWOOD WAY, SUITE 100
BURBANK, CA 91505-2826

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AS-BUILT
Contract No. 07- 120834
Resident Engineer: AMOS, H.
Completion Date: 09/27/1999

RAMP METERING SYSTEM (LOCATION 1373)

SCALE: 1" = 50'

E-40

DESIGN OVERSIGHT: PAT SULLIVAN
CALCULATED/DESIGNED BY:
CHECKED BY:
RWF
PRO
DATE 11/93 REVISED BY
12/93 DATE REVISED
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => $$$$$$SYSTIME$$$$$$

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$
CU 07374
EA 120831

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	09-17-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 09-17-10 DATE

09-17-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

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FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

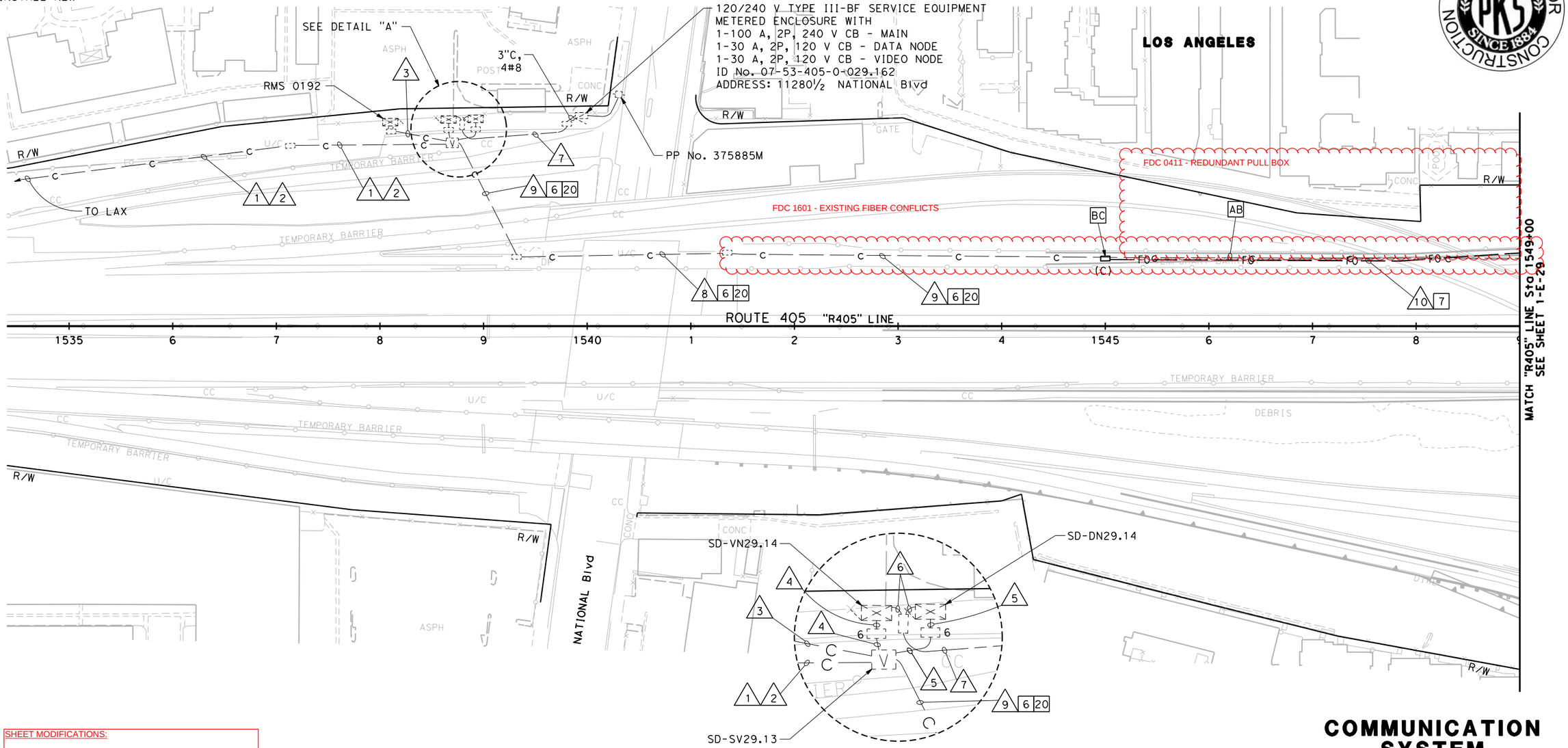
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

NOTE: SEE SHEET 1-E-27 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6	7	8			9				10			
75P22 CABLE	VOICE/DATA	1							1													
6P22 CABLE	VOICE/DATA						1															
TYPE A CABLE	TRUNK											1(N)			1(N)				1(N)			
	EXISTING TRUNK		1																			
TYPE C CABLE	BREAKOUT								1													
	VIDEO DISTRIBUTION			1				2														
INTERDUCT SIZE 1"			1	1	1							1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)
#8 SERVICE										2	4											
PULL ROPE					1	1							1(N)	1(N)		1(N)	1(N)	1(N)		1(N)	1(N)	1(N)
#12 AWG	TRACER WIRE	1										1(N)			1(N)				1(N)			
CONDUIT SIZE		4"				4"	2"	3"	3"	2"	2"	3"			4"				4"(N)			

ALL CONDUCTORS AND CONDUIT ARE EXISTING. UNLESS OTHERWISE NOTED.
(N)=INSTALL NEW



DETAIL "A"
NO SCALE

SHEET MODIFICATIONS:

1. FDC 0411 - REDUNDANT PULL BOX
2. FDC 1641 - K RAIL AND SIGNS TO PROTECT PULL BOX
3. FDC 1822 - NW3 FIBER OPTIC BACKBONE RE-ROUTE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

1-E-28

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

N/A	N/A			
N/A	N/A			
N/A	N/A			
REVISED BY	DATE REVISED			
HUBURT KANG	ALEX ZUPANSKI			
CALCULATED-DESIGNED BY	CHECKED BY			
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans			

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-1.dgn

CU 07242

EA 120301

LAST REVISION 00-00-00 TIME PLOTTED => 10:45:47 AM DATE PLOTTED => 10/15/2010

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	09-17-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 09-17-10 DATE

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

09-17-10
PLANS APPROVAL DATE

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FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

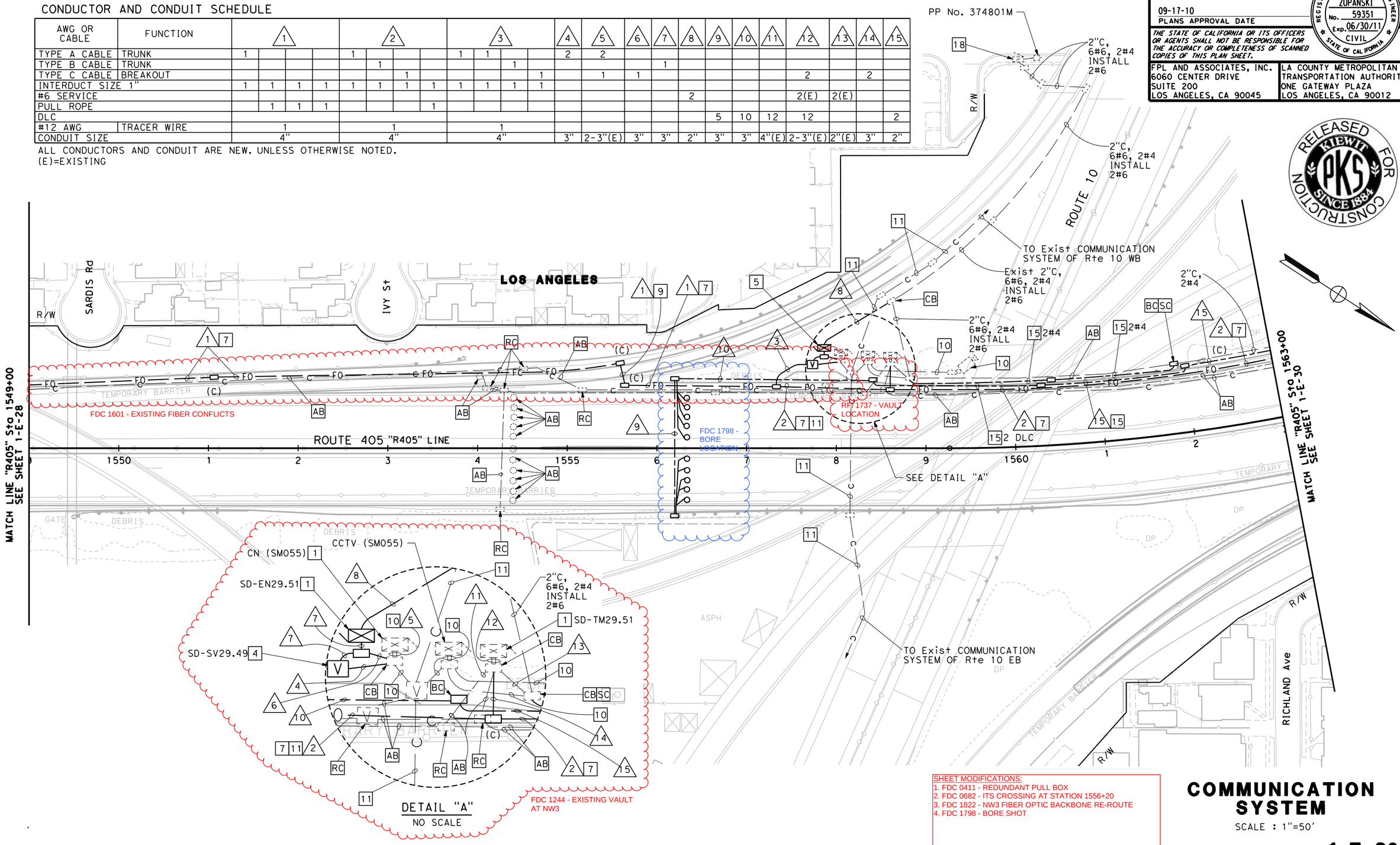
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

NOTE: SEE SHEET 1-E-27 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2				3				4	5	6	7	8	9	10	11	12	13	14	15
TYPE A CABLE	TRUNK	1				1				1	1			2	2										
TYPE B CABLE	TRUNK						1					1					1								
TYPE C CABLE	BREAKOUT							1					1		1	1						2		2	
INTERDUCT SIZE 1"		1	1	1	1	1	1	1	1	1	1	1	1												
#6 SERVICE																		2				2(E)	2(E)		
PULL ROPE			1	1	1				1																
DLC																			5	10	12	12			2
#12 AWG	TRACER WIRE	1				1				1															
CONDUIT SIZE		4"				4"				4"				3"	2-3"(E)	3"	3"	2"	3"	3"	4"(E)	2-3"(E)	2"(E)	3"	2"

ALL CONDUCTORS AND CONDUIT ARE NEW. UNLESS OTHERWISE NOTED.
(E)=EXISTING



SHEET MODIFICATIONS:
1. FDC 0411 - REDUNDANT PULL BOX
2. FDC 0682 - ITS CROSSING AT STATION 1556+20
3. FDC 1822 - NW3 FIBER OPTIC BACKBONE RE-ROUTE
4. FDC 1798 - BORE SHOT

COMMUNICATION SYSTEM

SCALE : 1"=50'

1-E-29

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

CALCULATED-DESIGNED BY	HUBURT KANG	REVISED BY	N/A
CHECKED BY	ALEX ZUPANSKI	DATE REVISED	N/A
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD		N/A
			N/A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => 10:45:50 AM — DATE PLOTTED => 10/15/2010

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-1.dgn

CU 07242

EA 120301

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

NOTE: SEE SHEET 1-E-27 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	09-17-10
1	NDC 226: REVISED PER BMP 52	01-24-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 09-17-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

09-17-10
PLANS APPROVAL DATE

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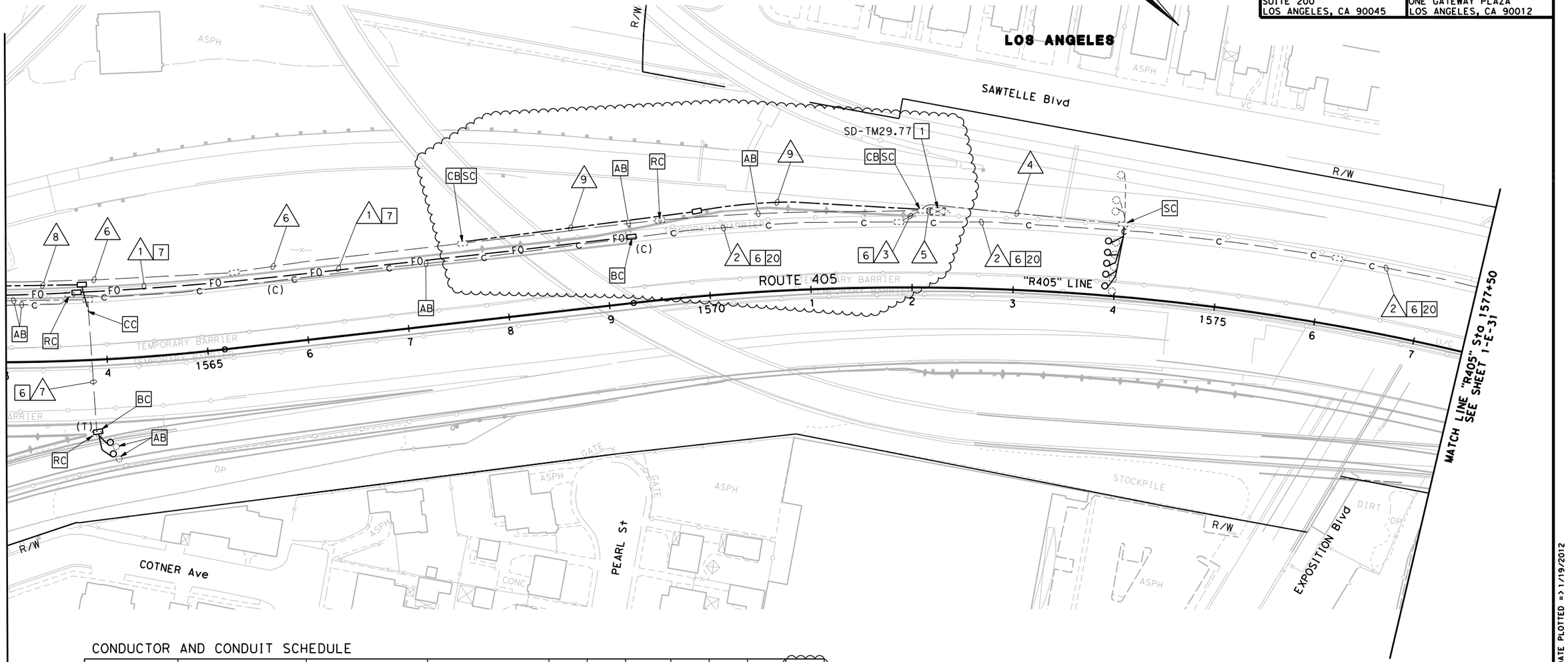
FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2				3	4	5	6	7	8	9
TYPE A CABLE	TRUNK	1				1										
TYPE B CABLE	TRUNK		1				1									
TYPE C CABLE	BREAKOUT			1				1		2		2				
INTERDUCT SIZE 1"		1	1	1	1	1	1	1	1							
#4 SERVICE												2(E)	2(E)			2
PULL ROPE					1				1							
DLC											8(E)	8(E)		2	2	
#12 AWG	TRACER WIRE	1				1										
CONDUIT SIZE		4"				4"(E)				2"(E)	3"(E)	2-3"(E)	2"(E)	3"(E)	2"	2"

ALL CONDUCTORS AND CONDUIT ARE NEW. UNLESS OTHERWISE NOTED.
(E)=EXISTING

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

1-E-30

CALCULATED-DESIGNED BY	N/A
CHECKED BY	N/A
REVISED BY	N/A
DATE REVISED	N/A
HUBURT KANG	HK
ALEX ZUPANSKI	01-24-12

CONSULTANT FUNCTIONAL SUPERVISOR — BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => 6:49:29 PM — DATE PLOTTED => 1/19/2012

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-1.dgn

CU 07242

EA 120301

REVISED BY	HK	N/A	N/A
DATE REVISED	03-28-12	N/A	N/A

CALCULATED-DESIGNED BY	HUBURT KANG
CHECKED BY	ALEX ZUPANSKI

CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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

NOTE: SEE SHEET 1-E-27 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE
100 A, 240 V, 3P, CB MAIN
20 A, 120 V, 1P, CB CCTV
REMOVE:
20 A, 120 V, 1P, CB DATA NODE
ID No. 07-53-010-R-006.721
ADDRESS: 2320½ SAWTELLE Blvd

RELEASED FOR CONSTRUCTION KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	09-17-10
1	NDC 289: BMP 50 ADDITION	03-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

09-17-10
REGISTERED CIVIL ENGINEER DATE

09-17-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

SHEET MODIFICATIONS:

1. FDC 1774 - 1585 ADD'L PULL BOX
2. FDC 1862 - COMMUNICATION CONDUIT RE-ROUTE

MATCH LINE "R405" Sta 1577+50 SEE SHEET 1-E-30

MATCH LINE "R405" Sta 1592+50 SEE SHEET 1-E-32

SAWTELLE Ave
Exist PP No. 164367M
R/W
CONC
DIRT
ASPH
GATE
POST
LOS ANGELES
ROUTE 405
"R405" LINE
TEMPORARY BARRIER
U/C
SEE DETAIL "A"
PICO Blvd
COTNER Ave
SD-RM30.10 2 1
SD-SV30.04 12
MT 6
DATA NODE (SD301) AB 19
SD-CC30.04
1580
1585
1590

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6	7
TYPE A CABLE	TRUNK	1									
TYPE B CABLE	TRUNK		1								
TYPE C CABLE	BREAKOUT			1		2	2			2	
MULTI-CONDUCTOR CCTV CABLE								1			
INTERDUCT SIZE 1"		1	1	1	1						
#6 SERVICE									2(E)		2
PULL ROPE					1						
#12 AWG	TRACER WIRE	1								1	1
CONDUIT SIZE		4"(E)				2-3"(E)	3"(E)	3"(E)	2"(E)	3"	3"

ALL CONDUCTORS AND CONDUIT ARE NEW. UNLESS OTHERWISE NOTED.
(E)=EXISTING

DETAIL "A"
NO SCALE

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

1-E-31

LAST REVISION 00-00-00 TIME PLOTTED => 10:02:48 AM DATE PLOTTED => 3/27/2012

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-1.dgn

CU 07242

EA 120301

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

NOTE: SEE SHEET 1-E-27 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

SHEET MODIFICATIONS:

1. NCR 0462 - ITS PULLBOX

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	09-17-10
1	NDC 256: REVISIONS PER BMP 46 DESIGN	07-29-11
2	NDC 287: REVISIONS PER BMP 46 NB DESIGN	10-19-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 09-17-10 DATE

09-17-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

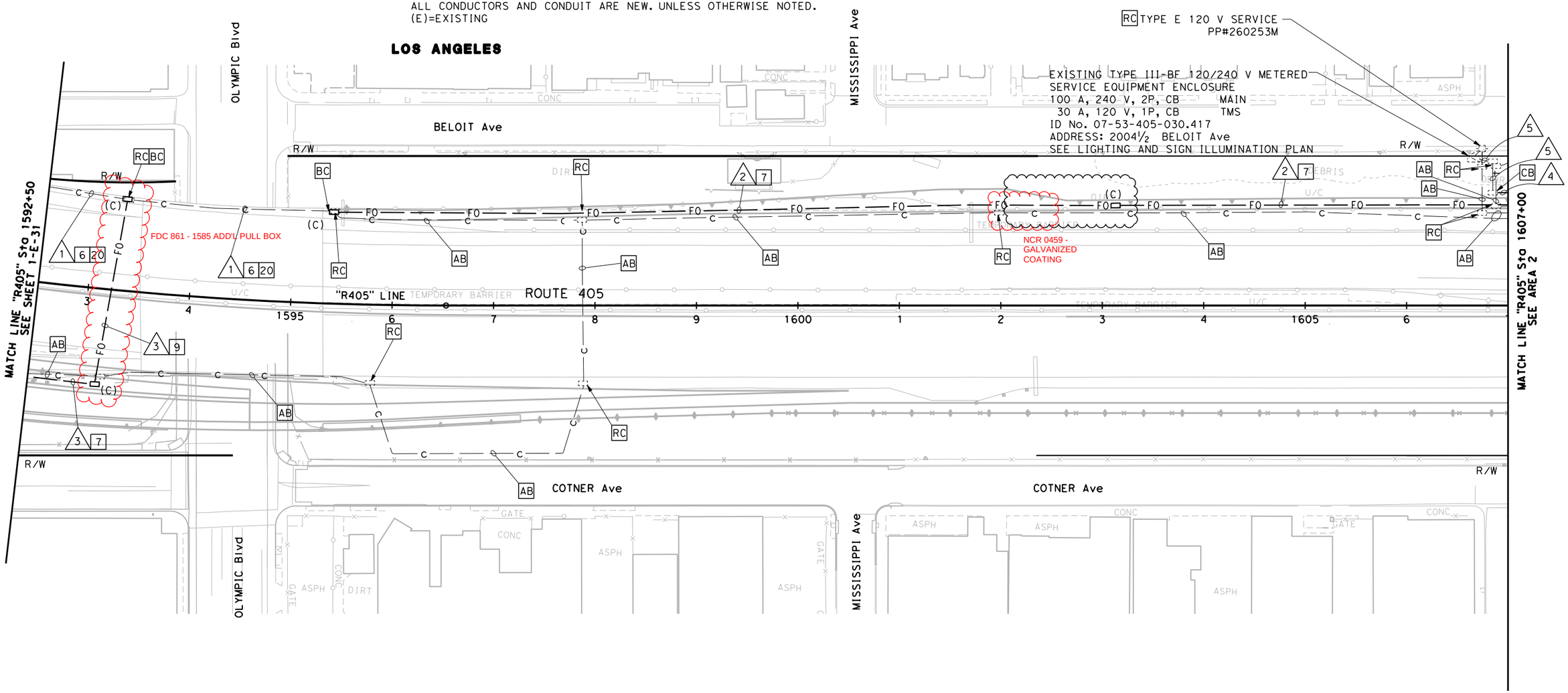
LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

RELEASED FOR CONSTRUCTION KIEWIT PKS SINCE 1884

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2				3	4	5
TYPE A CABLE	TRUNK	1				1						
TYPE B CABLE	TRUNK		1				1					
TYPE C CABLE	BREAKOUT			1				1		2		
INTERDUCT SIZE 1"		1	1	1	1	1	1	1	1			
#8 SERVICE											2	2
PULL ROPE					1				1			
#12 AWG	TRACER WIRE	1				1				1		
CONDUIT SIZE		4"(E)				4"				3"	2"	2"(E)

ALL CONDUCTORS AND CONDUIT ARE NEW. UNLESS OTHERWISE NOTED.
(E)=EXISTING



COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

1-E-32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: HK
DATE REVISED: 07-29-11
HK: 10-19-12
N/A: N/A

LAST REVISION 00-00-00 TIME PLOTTED => 10:00:28 AM DATE PLOTTED => 10/19/2012

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-1.dgn

CU 07242

EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-23-10

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 07-23-10

PLANS APPROVAL DATE 07-23-10

REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

GENERAL NOTES: (SHEETS 2-E-19 TO 2-E-24)

1. THE LOCATIONS OF EXISTING ELECTRICAL FACILITIES SUCH AS UNDERGROUND CONDUITS, PULL BOXES, SPLICE VAULTS, AND CONTROLLER CABINETS ARE APPROXIMATE.
2. ALL FIBER OPTIC CONDUIT BENDS SHALL BE 4 ft RADIUS MINIMUM, AND SHALL BE FACTORY BENDS. ALL OTHER CONDUITS SHALL HAVE A MINIMUM BEND RADIUS OF NO LESS THAN 6 TIMES THE CONDUIT DIAMETER.
3. NEW ELECTRICAL EQUIPMENT LOCATIONS SHOWN ON THE PLANS, INCLUDING PULL BOXES AND CONDUIT, ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS.
4. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, SERVICE EQUIPMENT ENCLOSURES, POWER POLES, AND TELEPHONE DEMARCATION BOXES ARE APPROXIMATE.
5. FOR COMMUNICATION SYSTEM DETAILS SEE DETAIL SHEETS ED-10 TO ED-19 AND ED-21 TO ED-23. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLAN FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.
6. CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS WHICH SHALL RUN CONTINUOUSLY IN ALL NEW AND AFFECTED CIRCUITS. SEE SECTION 86-2.10 OF THE CALTRANS STANDARD SPECIFICATIONS FOR BONDING AND GROUNDING REQUIREMENTS.

PROJECT NOTES: (SHEETS 2-E-19 TO 2-E-23)

[1] PROPOSED ETHERNET COMMUNICATION EQUIPMENT AND CONNECTION DETAILS TO BE PROVIDED IN CORRIDOR WIDE FIBER SPLICING DETAILS PLAN.

[2] FOR REFERENCE ONLY, SEE RAMP METERING PLANS.

[3] INSTALL CONDUIT UNDER MSE SLAB. SEE DETAILS SHEET ED-13.

[4] INSTALL SPLICE VAULT AND SPLICE CLOSURES FOR FIBER OPTIC SPLICING. SEE DETAILS SHEET ED-15 FOR DETAILS. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLAN FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.

[5] [RS] EXISTING CCTV POLE AND CAMERA ASSEMBLY. [RC] EXISTING FOUNDATION.

[6] INSTALL CONDUIT IN BRIDGE DECK WITH EXPANSION-DEFLECTION FITTINGS, SEE STRUCTURE PLANS FOR DETAILS.

[7] INSTALL NEW CCTV TYPE 45 POLE, CAMERA ASSEMBLY AND NEW FOUNDATION. SEE DETAILS SHEET ED-18 FOR DETAILS.

[8] [RL] EXISTING CABINET AND EQUIPMENT ON NEW FOUNDATION.
[RC] EXISTING FOUNDATION.

[9] TRENCH AND INSTALL CONDUIT IN ASPHALT OR CONCRETE. SEE DETAIL SHEETS ED-10, ED-11 AND ED-12 FOR DETAILS.

[10] JACK CONDUIT UNDER ROADWAY AS INDICATED, SEE DETAILS SHEET ED-14 FOR DETAILS.

[11] INSTALL CONDUIT IN CONCRETE BARRIER. SEE STRUCTURE PLANS.

[12] RELOCATED EXISTING CMS 500 ON NEW POLE AND FOUNDATION, SEE CIVIL AND STRUCTURE PLANS FOR DETAILS. SEE DETAILS SHEET ED-22 FOR CMS SCHEMATIC DETAILS.

[13] RELOCATE EXISTING CMS 500 AS INDICATED. REFER TO CIVIL PLANS FOR REMOVAL OF CMS POLE AND FOUNDATION.

[14] INSTALL 3" CONDUIT. CONDUCTORS TO BE INSTALLED BY UTILITY COMPANY.

[15] INSTALL TYPE III-CF METERED SERVICE EQUIPMENT ENCLOSURE
METER#1
200 A, 240 V, 2P, CB — MAIN
40 A, 240 V, 2P, CB — CMS
30 A, 120 V, 1P, CB — CMS CONTROLLER
METER#2
200 A, 240 V, 2P, CB — MAIN
30 A, 120 V, 1P, CB — CCTV CONTROLLER
ID No. 07-53-405-030.713
ADDRESS: 1760½ BELOIT Ave

[16] INSTALL CONDUIT BEHIND MSE WALL. SEE DETAILS SHEET ED-13.

[17] FOR INSTALLATION SEE LIGHTING PLANS.

[18] INSTALL PULLBOX IN MSE SLAB. LABEL PULL BOX COVER WITH APPROPRIATE MARK. SEE DETAILS SHEET ED-23 AND WALL PLANS FOR DETAILS.

LEGEND: (SHEETS 2-E-19 TO 2-E-24)

[V]	SPLICE VAULT
[V]	Exist SPLICE VAULT
SD-XXYY.YY	CABINET ID
XX	DENOTES ELECTRICAL SYSTEM, SEE ABBREVIATIONS
YY.YY	DENOTES CABINET PM

ABBREVIATION: (SHEETS 2-E-19 TO 2-E-24)

F/O OR FO	FIBER OPTIC CABLE
SMFO	SINGLEMODE FIBER OPTIC CABLE
TYPE A CABLE	72 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE B CABLE	48 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE C CABLE	12 SINGLEMODE FIBER OPTIC CABLE (BREAKOUT)
SD	SAN DIEGO
TM	TMS
CC	CCTV
SV	SPLICE VAULT
CM	CMS

COMMUNICATION SYSTEM

NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

2-E-19

CALCULATED-DESIGNED BY	N/A	N/A	N/A
CHECKED BY	N/A	N/A	N/A
HUBURT KANG	REVISED BY	N/A	N/A
ALEX ZUPANSKI	DATE REVISED	N/A	N/A
CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans			

LAST REVISION 00-00-00 — TIME PLOTTED => 9:49:56 AM — DATE PLOTTED => 8/16/2010

BORDER LAST REVISED 4/11/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => Huburt Kang — DGN FILE => 45710-S-TR-ITS01-2.dgn — CU 07242 — EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-23-10
1	NDC 256: REVISED PER BMP 46 DESIGN	10-07-11
2	NDC 287: REVISED PER BMP 46 NB DESIGN	10-19-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 07-23-10 DATE

07-23-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

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

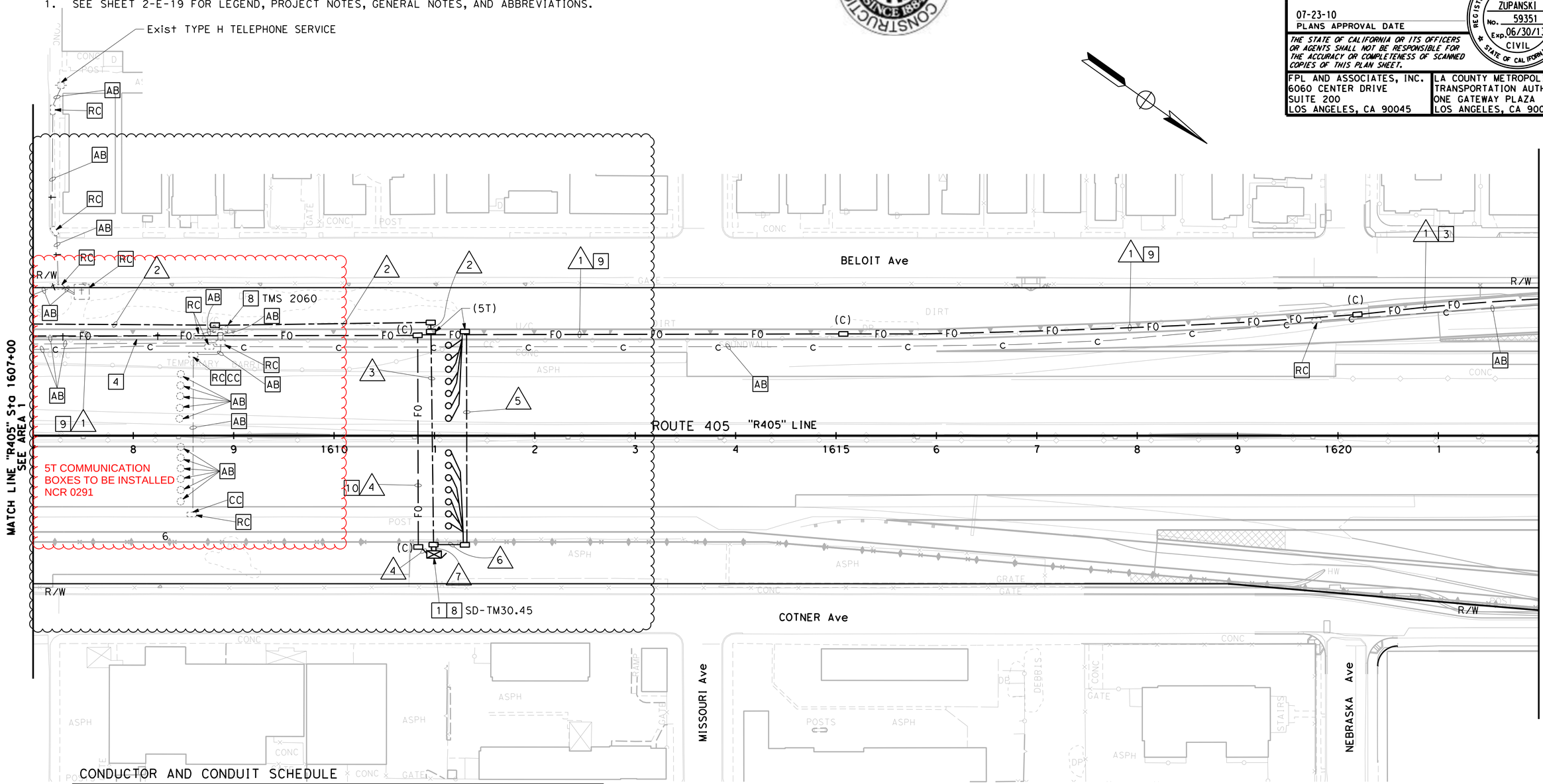
FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTE:

1. SEE SHEET 2-E-19 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6	7
TYPE A CABLE	TRUNK	1									
TYPE B CABLE	TRUNK		1								
TYPE C CABLE	BREAKOUT			1				2			
#6	SD-TM30.45 SERVICE					2	2				2
DLC	COUNT								7	14	14
INTERDUCT SIZE 1"		1	1	1	1						
PULL ROPE					1						
#12 AWG	TRACER WIRE	1									
CONDUIT SIZE		4"				2"	3"	3"	3"	3"	2-3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E)=EXISTING

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

2-E-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: HK
DATE REVISED: 10-07-11
HK: 10-19-12
N/A: N/A

LAST REVISION 00-00-00
TIME PLOTTED => 3:55:33 PM
DATE PLOTTED => 10/18/2012

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-2.dgn
CU 07242
EA 120301

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

SHEET MODIFICATIONS:

1. FDC 0762 - RELOCATE THE BOX PER THE AS-BUILT SURVEY LOCATION
2. FDC 1336 - MAX COVER ON CONDUIT
3. FDC 1270 - 1625 CONTROLLER CABINET LOCATION

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-23-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 07-23-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

07-23-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

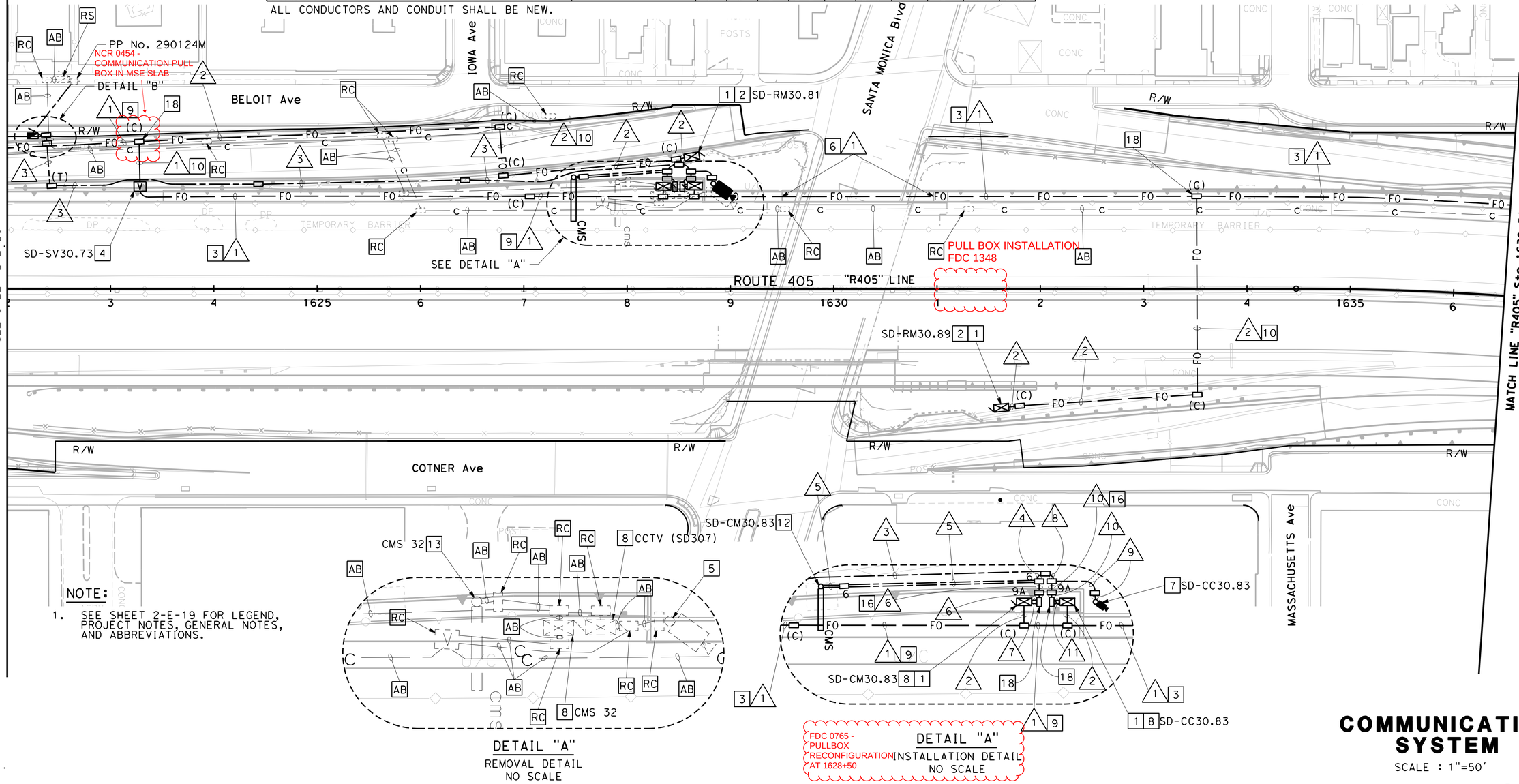
RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6	7	8	9	10	11
TYPE A CABLE	TRUNK	1													
TYPE B CABLE	TRUNK		1												
TYPE C CABLE	BREAKOUT			1		2									
#4	SD-CM30.83 SERVICE						4	4	4						
#8	SD-CM30.83 CONTROLLER SERVICE						2	2		2	2				
#8	SD-CC30.83 CONTROLLER SERVICE						2					2		2	2
CMS CONTROL CABLE									1	1	1		1	1	1
CCTV MULTI-CONDUCTOR CABLE															
INTERDUCT SIZE 1"		1	1	1	1										
PULL ROPE					1										
#12 AWG	TRACER WIRE			1											
CONDUIT SIZE				4"		3"	3"	2"	2-2"	3"	2-3"	2"	2"	3"	2-3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

DETAIL "B"
NO SCALE



NOTE:

1. SEE SHEET 2-E-19 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

DETAIL "A"
REMOVAL DETAIL
NO SCALE

DETAIL "A"
INSTALLATION DETAIL
NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

2-E-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: N/A | N/A | N/A | N/A | N/A
DATE REVISED: N/A | N/A | N/A | N/A | N/A

LAST REVISION => 00-00-00
TIME PLOTTED => 11:07:12 AM
DATE PLOTTED => 8/19/2010

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-2.dgn
CU 07242
EA 120301

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

NOTE:

1. SEE SHEET 2-E-25 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-23-10
1	NDC 161: REDESIGN RAMP "W1" DUE TO ADDITIONAL CAPACITY	11-30-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 07-23-10

PLANS APPROVAL DATE 07-23-10

REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/13 — CIVIL — STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

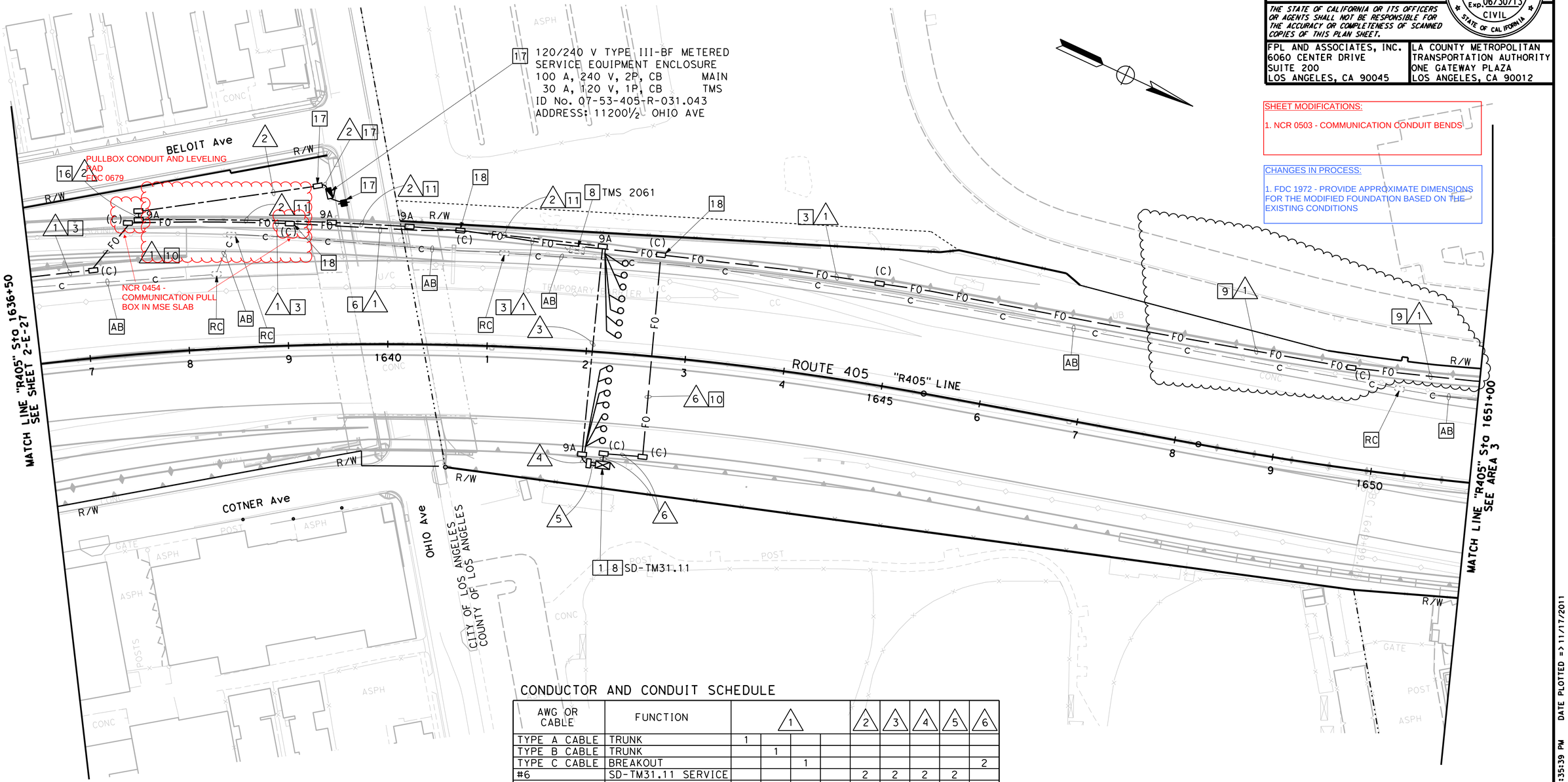
LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

SHEET MODIFICATIONS:

1. NCR 0503 - COMMUNICATION CONDUIT BENDS

CHANGES IN PROCESS:

1. FDC 1972 - PROVIDE APPROXIMATE DIMENSIONS FOR THE MODIFIED FOUNDATION BASED ON THE EXISTING CONDITIONS



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6
TYPE A CABLE	TRUNK	1								
TYPE B CABLE	TRUNK		1							
TYPE C CABLE	BREAKOUT			1						2
#6	SD-TM31.11 SERVICE					2	2	2	2	
DLC	COUNT						7	14	14	
INTERDUCT SIZE 1"		1	1	1	1					
PULL ROPE					1					
#12 AWG	TRACER WIRE	1								
CONDUIT SIZE		4"				2"	3"	3"	2-3"	3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

2-E-22

CALCULATED-DESIGNED BY	N/A	N/A	
CHECKED BY	N/A	N/A	
HUBURT KANG	HK	11-30-11	
ALEX ZUPANSKI	REVISED BY	DATE REVISED	

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-2.dgn

CU 07242

EA 120301

LAST REVISION 00-00-00 TIME PLOTTED => 4:35:39 PM DATE PLOTTED => 11/17/2011

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	06-21-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 06-21-10

PLANS APPROVAL DATE 06-21-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

RELEASED FOR CONSTRUCTION — KIBWIT PKS SINCE 1884

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FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

GENERAL NOTES: (SHEETS 3-E-17 TO 3-E-19)

1. THE LOCATIONS OF EXISTING ELECTRICAL FACILITIES, SUCH AS UNDERGROUND CONDUITS, PULL BOXES, SPLICE VAULTS, AND CONTROLLER CABINETS, ARE APPROXIMATE.
2. ALL FIBER OPTIC CONDUIT BENDS SHALL BE 4 ft RADIUS MINIMUM, AND SHALL BE FACTORY BENDS. ALL OTHER CONDUITS SHALL HAVE A MINIMUM BEND RADIUS OF NO LESS THAN 6 TIMES THE CONDUIT DIAMETER.
3. NEW ELECTRICAL EQUIPMENT LOCATIONS SHOWN ON THE PLANS, INCLUDING PULL BOXES AND CONDUIT, ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS.
4. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, SERVICE EQUIPMENT ENCLOSURES, POWER POLES, AND TELEPHONE DEMARCATION BOXES ARE APPROXIMATE.
5. FOR COMMUNICATION SYSTEM DETAILS SEE SHEET 3-E-19 AND DETAIL SHEETS ED-12, ED-14, ED-16, ED-17 AND ED-19. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLANS FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.

PROJECT NOTES: (SHEETS 3-E-17 TO 3-E-18)

[1] PROPOSED ETHERNET COMMUNICATION EQUIPMENT AND CONNECTION DETAILS ARE PROVIDED IN CORRIDOR WIDE FIBER SPLICING DETAILS PLANS.

[2] FOR REFERENCE ONLY, SEE RAMP METERING PLANS.

[3] [RC] EXISTING CABLES AND CONDUCTORS. INSTALL NEW CABLES/CONDUCTORS AS NOTED.

[4] JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE DETAILS SHEET ED-14.

ABBREVIATIONS: (SHEETS 3-E-16 TO 3-E-19)

F/O OR FO	FIBER OPTIC CABLE
SMFO	SINGLEMODE FIBER OPTIC CABLE
TYPE C CABLE	12 SINGLEMODE FIBER OPTIC CABLE (BREAKOUT)
SD	SAN DIEGO

LEGEND: (SHEETS 3-E-16 TO 3-E-19)

SD-XXYY.YY	CABINET ID
XX	DENOTES ELECTRICAL SYSTEM, SEE ABBREVIATIONS
YY.YY	DENOTES CABINET PM

COMMUNICATION SYSTEM

NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

3-E-16

CALCULATED-DESIGNED BY	HUBURT KANG	REVISED BY	N/A
CHECKED BY	ALEX ZUPANSKI	DATE REVISED	N/A
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD		N/A
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans		N/A

LAST REVISION 00-00-00 TIME PLOTTED => 11:57:26 AM DATE PLOTTED => 6/16/2010

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => Huburt Kang DGN FILE => 45710-S-TR-ITS01-3.dgn | CU 07242 | EA 120301

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

NOTE:

1. SEE SHEET 3-E-16 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION
KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	06-21-10

SHEET MODIFICATIONS:

1. NDC 0207 - REVISE ELECTRICAL COMPONENTS TO MATCH ROADWAY GEOMETRY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 06-21-10

PLANS APPROVAL DATE 06-21-10

REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

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

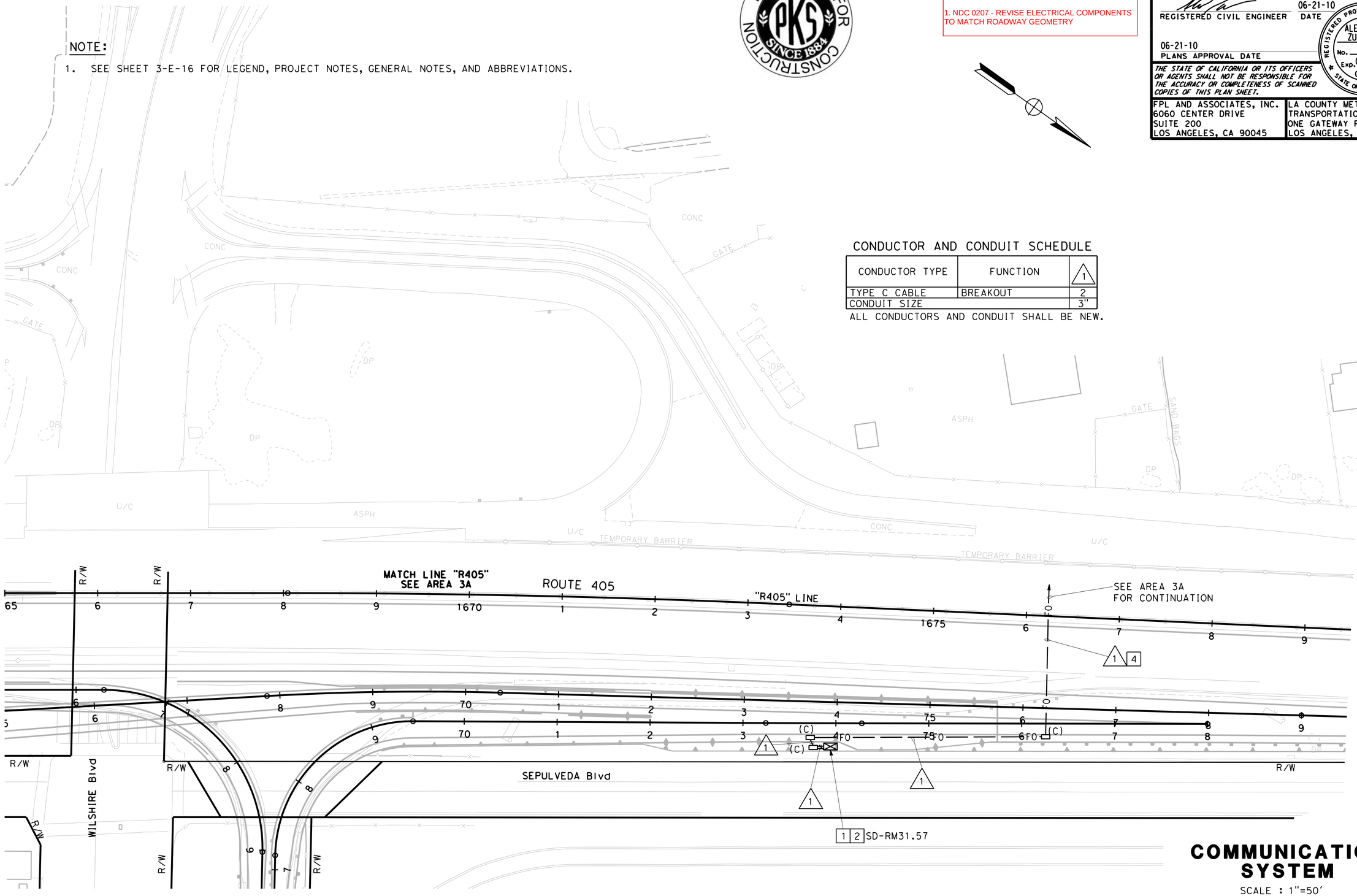
FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR TYPE	FUNCTION	1
TYPE C CABLE	BREAKOUT	2
CONDUIT SIZE		3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.



COMMUNICATION SYSTEM

SCALE : 1"=50'

3-E-17

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

CALCULATED-DESIGNED BY	N/A
CHECKED BY	N/A
HUBURT KANG	N/A
ALEX ZUPANSKI	N/A
REVISED BY	N/A
DATE REVISED	N/A

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 11:57:28 AM DATE PLOTTED => 6/16/2010

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-3.dgn

CU 07242

EA 120301

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

NOTE:

1. SEE SHEET 3-E-16 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR TYPE	FUNCTION	1
DLC	COUNT	6
CONDUIT SIZE		2"(E)

ALL CONDUCTORS AND CONDUIT SHALL BE NEW, UNLESS OTHERWISE INDICATED.
(E)=EXISTING

RELEASED FOR CONSTRUCTION
KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	06-21-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 06-21-10 DATE

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

06-21-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

3-E-18

REVISED BY	N/A
DATE REVISED	N/A
CALCULATED-DESIGNED BY	HUBURT KANG
CHECKED BY	ALEX ZUPANSKI
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-3.dgn

CU 07242

EA 120301

LAST REVISION 00-00-00 TIME PLOTTED => 11:57:30 AM DATE PLOTTED => 6/16/2010

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	06-30-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 06-30-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

06-30-10
PLANS APPROVAL DATE

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RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

GENERAL NOTES: (SHEETS 3A-E-17 TO 3A-E-21)

1. THE LOCATIONS OF EXISTING ELECTRICAL FACILITIES SUCH AS UNDERGROUND CONDUITS, PULL BOXES, SPLICE VAULTS, AND CONTROLLER CABINETS ARE APPROXIMATE.
2. ALL FIBER OPTIC CONDUIT BENDS SHALL BE 4 ft RADIUS MINIMUM, AND SHALL BE FACTORY BENDS. ALL OTHER CONDUITS SHALL HAVE A MINIMUM BEND RADIUS OF NO LESS THAN 6 TIMES THE CONDUIT DIAMETER.
3. NEW ELECTRICAL EQUIPMENT LOCATIONS SHOWN ON THE PLANS, INCLUDING PULL BOXES AND CONDUIT, ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS.
4. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, SERVICE EQUIPMENT ENCLOSURES, POWER POLES, AND TELEPHONE DEMARCATION BOXES ARE APPROXIMATE.
5. FOR COMMUNICATION SYSTEM DETAILS SEE SHEETS 3A-E-21 AND DETAIL SHEETS ED-10 TO ED-20. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLANS FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.
6. CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS WHICH SHALL RUN CONTINUOUSLY IN ALL NEW AND AFFECTED CIRCUITS. SEE SECTION 86-2.10 OF THE CALTRANS STANDARD SPECIFICATIONS FOR BONDING AND GROUNDING REQUIREMENTS.

PROJECT NOTES: (SHEETS 3A-E-17 TO 3A-E-20)

[1] PROPOSED ETHERNET COMMUNICATION EQUIPMENT AND CONNECTION DETAILS TO BE PROVIDED IN CORRIDOR WIDE FIBER SPLICING DETAILS PLANS.

[2] FOR REFERENCE ONLY, SEE RAMP METERING PLANS.

[3] INSTALL CONDUIT UNDER MSE SLAB. SEE DETAILS SHEET ED-13.

[4] INSTALL SPLICE VAULT AND SPLICE CLOSURES FOR FIBER OPTIC SPLICING. SEE DETAILS SHEET ED-15 FOR DETAILS. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLANS.

[5] [RS] CAMERA ASSEMBLY. PROTECT IN-PLACE EXISTING CCTV TYPE 35 POLE.

[6] REMOVE EXISTING CABLES AND INSTALL NEW CABLES IN EXISTING CONDUIT IN BRIDGE STRUCTURE. SEE DETAILS SHEET ED-20 FOR DETAILS.

[7] INSTALL NEW CCTV CAMERA ASSEMBLY ON EXISTING CCTV TYPE 35 POLE. SEE DETAILS SHEET ED-18 FOR DETAILS.

[8] [RC] EXISTING CABLES AND CONDUCTORS. INSTALL NEW CABLES/CONDUCTORS AS NOTED.

[9] TRENCH AND INSTALL CONDUIT IN ASPHALT OR CONCRETE. SEE DETAILS SHEETS ED-10, ED-11 AND ED-12 FOR DETAILS.

[10] TRENCH AND INSTALL CONDUIT IN SOIL. SEE DETAILS SHEET ED-10 FOR DETAILS.

[11] JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE DETAILS SHEET ED-14 FOR DETAILS.

[12] [AB] ONE OF THE TWO EXISTING 4" CONDUITS. CONNECT NEW 4" CONDUIT TO EXISTING 4" CONDUIT AS NOTED ON PLANS.

[13] INSTALL CONDUIT IN CONCRETE BARRIER PER Std PLAN B14-3. SEE STRUCTURE PLANS.

ABBREVIATIONS: (SHEETS 3A-E-17 TO 3A-E-21)

F/O OR FO	FIBER OPTIC CABLE
SMFO	SINGLEMODE FIBER OPTIC CABLE
TYPE A CABLE	72 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE B CABLE	48 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE C CABLE	12 SINGLEMODE FIBER OPTIC CABLE (BREAKOUT)
SD	SAN DIEGO
TM	TMS
CC	CCTV
SV	SPLICE VAULT

LEGEND: (SHEETS 3A-E-17 TO 3A-E-21)

[V]	SPLICE VAULT
{V}	Exist SPLICE VAULT
SD-XXYY.YY	CABINET ID
XX	DENOTES ELECTRICAL SYSTEM, SEE ABBREVIATIONS
YY.YY	DENOTES CABINET PM

COMMUNICATION SYSTEM

NO SCALE

3A-E-16

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

CALCULATED-DESIGNED BY	N/A	N/A	
CHECKED BY	N/A	N/A	
CONSULTANT FUNCTIONAL SUPERVISOR	REVISED BY	DATE REVISED	
BRIAN BURKHARD	HUBURT KANG	ALEX ZUPANSKI	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => 5:30:33 PM — DATE PLOTTED => 6/30/2010

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-3A.dgn

CU 07242

EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	06-30-10
1	NDC 161: REDESIGN RAMP "W1" DUE TO ADDITIONAL CAPACITY	11-30-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 06-30-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

06-30-10
PLANS APPROVAL DATE

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FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

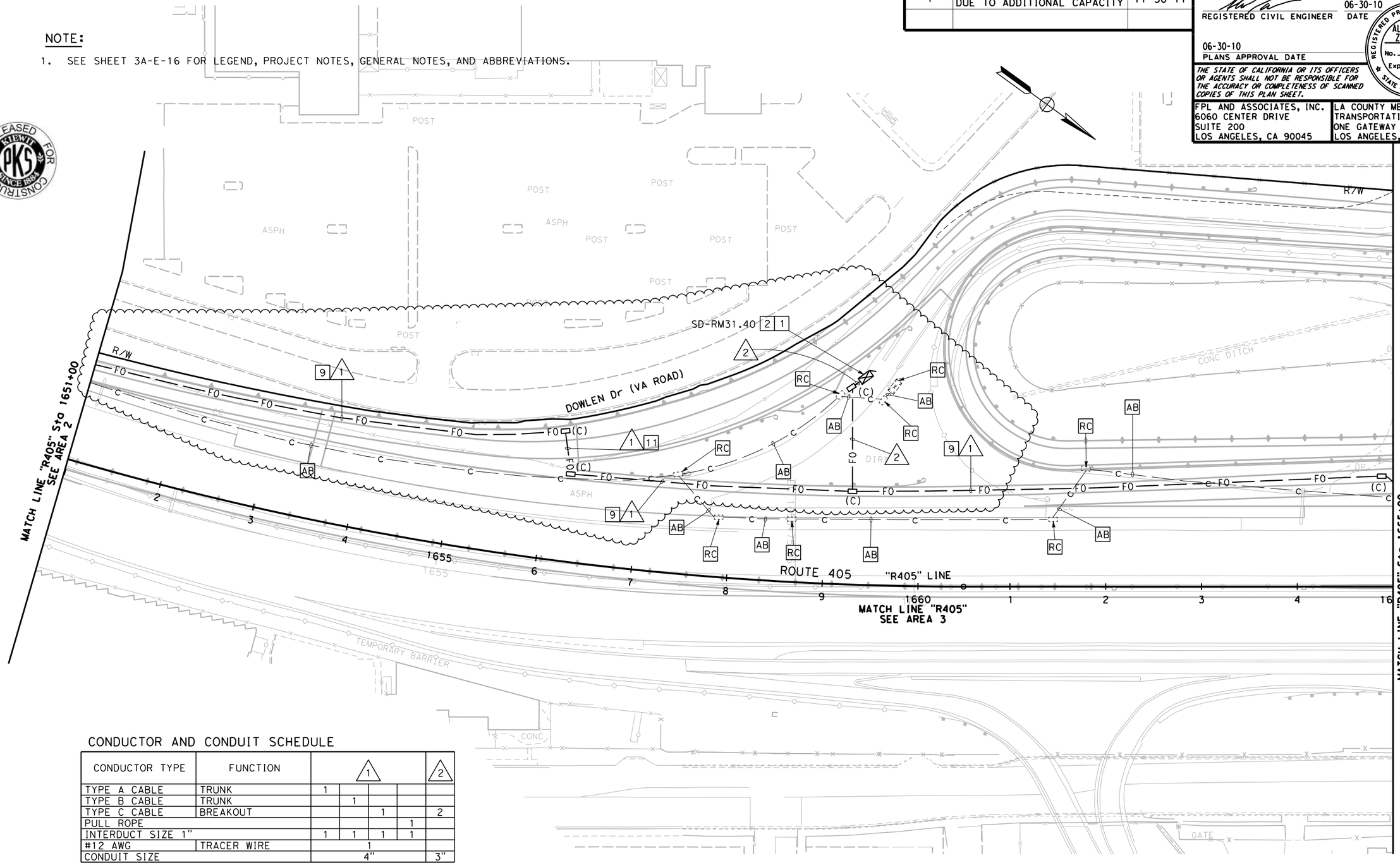
LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTE:

1. SEE SHEET 3A-E-16 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION — KLEWIT PKS SINCE 1889



CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR TYPE	FUNCTION	1				2
TYPE A CABLE	TRUNK	1				
TYPE B CABLE	TRUNK		1			
TYPE C CABLE	BREAKOUT			1		2
PULL ROPE					1	
INTERDUCT SIZE 1"		1	1	1	1	
#12 AWG	TRACER WIRE	1				
CONDUIT SIZE		4"				3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

3A-E-17

	REVISED BY	DATE REVISED
CALCULATED-DESIGNED BY	HUBURT KANG	
CHECKED BY	ALEX ZUPANSKI	
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD	
	HK	11-30-11
	N/A	N/A
	N/A	N/A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => 4:37:09 PM — DATE PLOTTED => 11/17/2011

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Hubert Kang
DGN FILE => 45710-S-TR-ITS01-3A.dgn

CU 07242

EA 120301

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

CHANGES IN PROCESS:

1. NDC 0483 - HORIZONTAL ALIGNMENT REVISED FOR SB 405 OFF RAMP TO EB WILSHIRE
2. FDC 1883 - ELIMINATE NON-STANDARD DESIGN FEATURE
3. NDC 0509 - HORIZONTAL ALIGNMENT

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	06-30-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 06-30-10 DATE

06-30-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

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

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

NOTE:

1. SEE SHEET 3A-E-16 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR TYPE	FUNCTION	1				2				3
TYPE A CABLE	TRUNK	1				1				
TYPE B CABLE	TRUNK		1				1			
TYPE C CABLE	BREAKOUT			1				1		2
PULL ROPE					1				1	
INTERDUCT SIZE 1"		1	1	1	1	1	1	1	1	
#12 AWG	TRACER WIRE	1				1				
CONDUIT SIZE		4"				4"(E)				3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW, UNLESS OTHERWISE NOTED.
(E)=EXISTING

WILSHIRE Blvd

SEPULVEDA Blvd

ROUTE 405 "R405" LINE

MATCH LINE "R405" Sta 1665+00 SEE SHEET 3A-E-17

MATCH LINE "R405" SEE AREA 3

MATCH LINE"R405" Sta 1679+50 SEE SHEET 3A-E-19

SEE AREA 3 FOR CONTINUATION

SD-RM31.64

4 SD-SV31.65

TEMPORARY BARRIER

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

3A-E-18

CALCULATED-DESIGNED BY	N/A	N/A	
CHECKED BY	N/A	N/A	
REVISED BY	N/A	N/A	
DATE REVISED	N/A	N/A	
HUBURT KANG			
ALEX ZUPANSKI			
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans		

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS01-3A.dgn

CU 07242

EA 120301

LAST REVISION 00-00-00 TIME PLOTTED => 5:30:38 PM DATE PLOTTED => 6/30/2010

SHEET MODIFICATIONS:

1. FDC 0984 - PULL BOX AND CONDUIT INFORMATION

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	06-30-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 06-30-10 DATE

06-30-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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

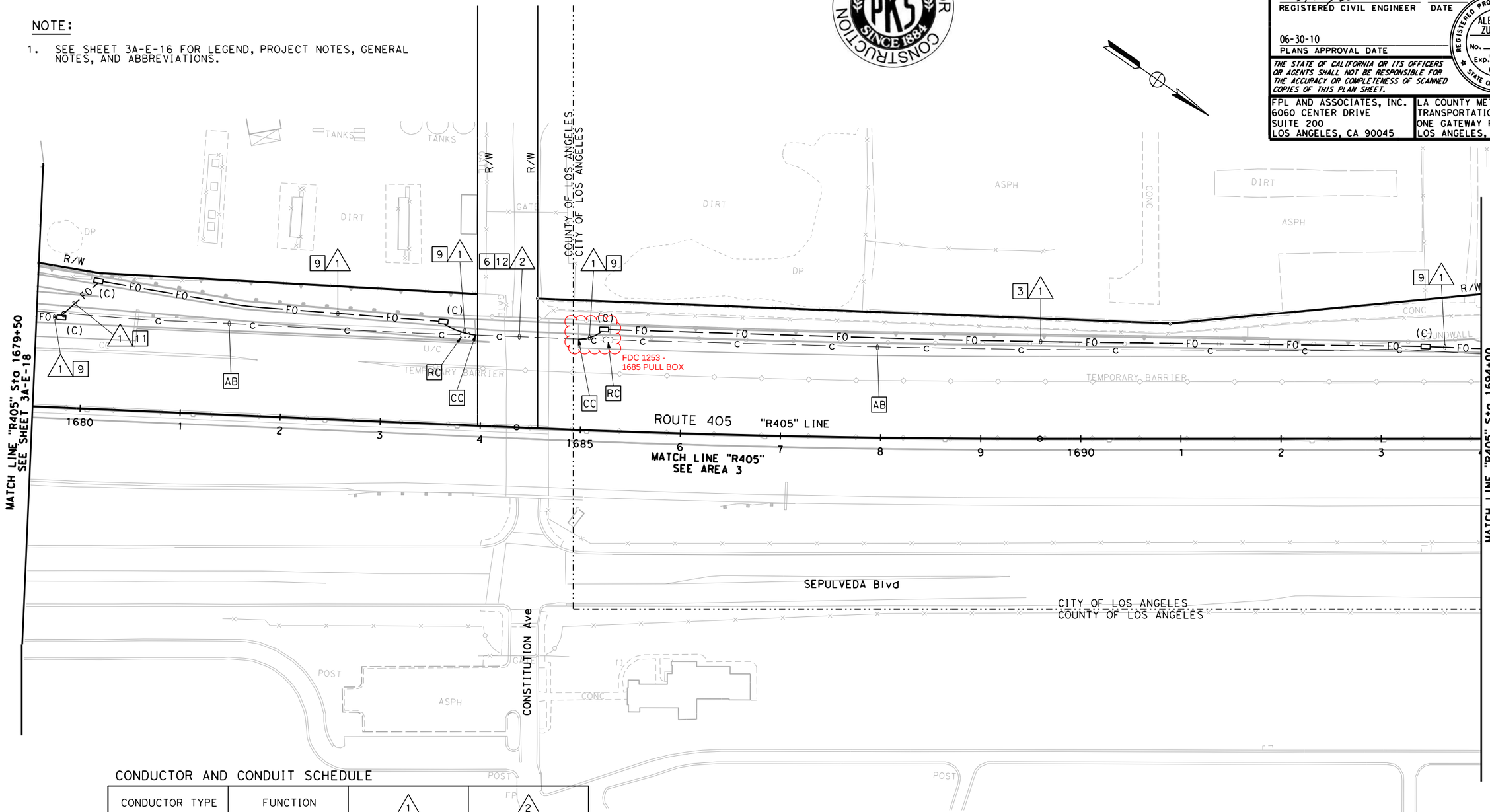
FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTE:

1. SEE SHEET 3A-E-16 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.



CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR TYPE	FUNCTION	1				2			
TYPE A CABLE	TRUNK	1				1			
TYPE B CABLE	TRUNK		1				1		
TYPE C CABLE	BREAKOUT			1				1	
PULL ROPE					1				1
INTERDUCT SIZE 1"		1	1	1	1	1	1	1	1
#12 AWG	TRACER WIRE	1				1			
CONDUIT SIZE		4"				2-4"(E)			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW, UNLESS OTHERWISE NOTED.
(E)=EXISTING

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

3A-E-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

CALCULATED-DESIGNED BY: HUBURT KANG | CHECKED BY: ALEX ZUPANSKI

REVISED BY: N/A | DATE REVISED: N/A

LAST REVISION 00-00-00 | TIME PLOTTED => 10:39:56 AM | DATE PLOTTED => 7/1/2010

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => David Sethman | DGN FILE => 45710-S-TR-ITS01-3A.dgn | CU 07242 | EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	06-30-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 06-30-10 DATE

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

06-30-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
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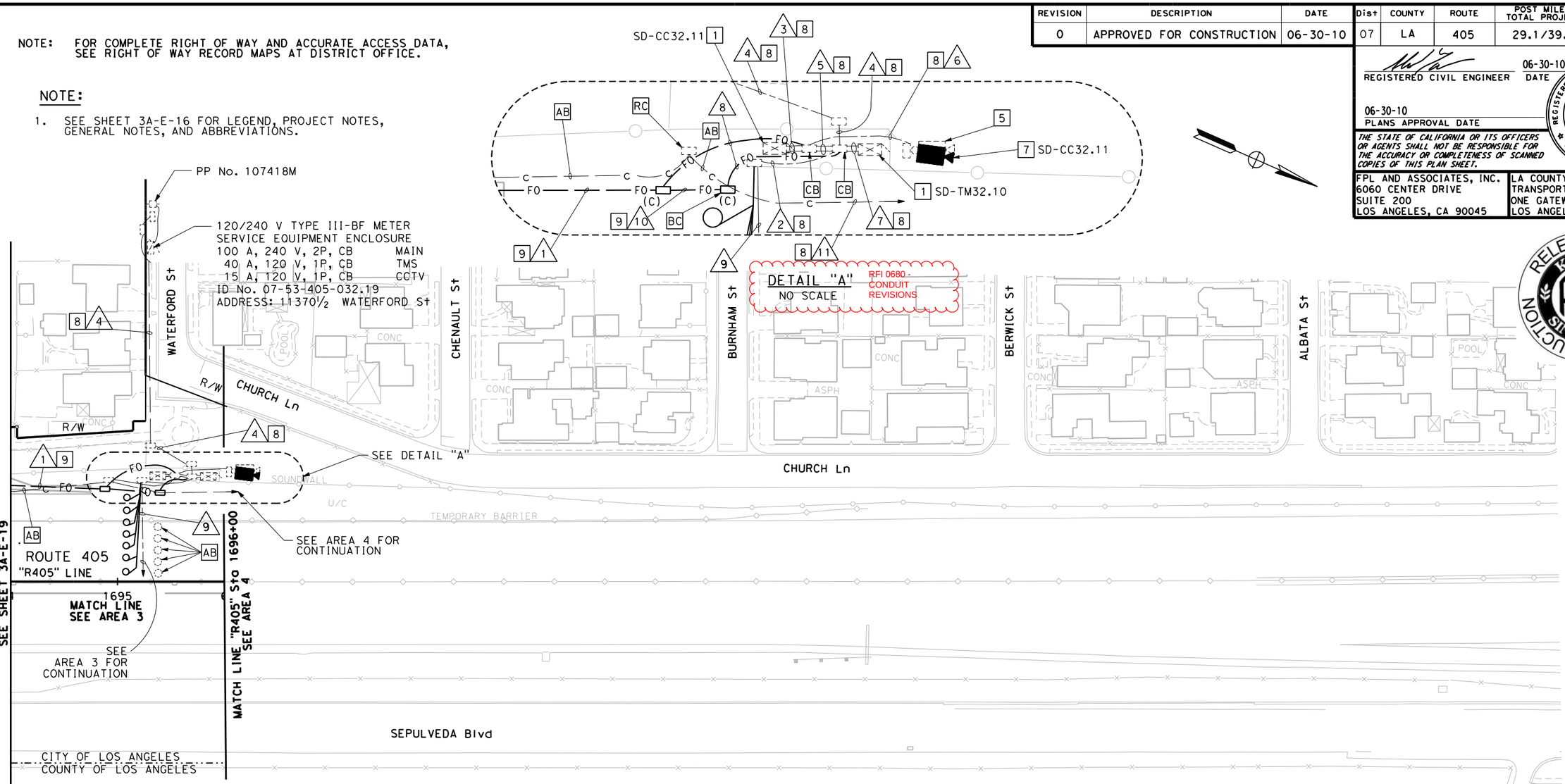
LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTE:

1. SEE SHEET 3A-E-16 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6	7	8	9	10				11			
TYPE A CABLE	TRUNK	1												1				1			
TYPE B CABLE	TRUNK		1												1				1		
TYPE C CABLE	BREAKOUT			1			2		1		2	1								1	
CCTV MULTI-CONDUCTOR CABLE							1			1											
#6	SD-TM32.10 SERVICE							2			2										
#8	SD-CC32.11 SERVICE						2	2	2												
DLC	COUNT					13					13		6								
INTERDUCT SIZE 1"		1	1	1	1									1	1	1	1	1	1	1	1
PULL ROPE					1											1	1				1
#12 AWG	TRACER WIRE	1												1				1			
CONDUIT SIZE		4"				2"(E)	2-3"(E)	1½"(E)	2-3"(E)	2"(E)	2-3"(E)	3"	3"(E)	4"				2-4"(E)			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E)=EXISTING

COMMUNICATION SYSTEM

SCALE : 1"=50'

3A-E-20

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
HUBURT KANG	ALEX ZUPANSKI	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

LAST REVISION 00-00-00 | TIME PLOTTED => 5:30:43 PM | DATE PLOTTED => 6/30/2010

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => Huburt Kang | DGN FILE => 45710-S-TR-ITS01-3A.dgn | CU 07242 | EA 120301

SHEET MODIFICATIONS:

1. FDC 1427 - ITS CONDUIT IN BARRIER IN LIEU OF CONDUIT IN GROUND

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-08-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 11-08-10 DATE

11-08-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

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FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

GENERAL NOTES: (SHEETS 4-E-29 TO 4-E-34)

1. THE LOCATIONS OF EXISTING ELECTRICAL FACILITIES SUCH AS UNDERGROUND CONDUITS, PULL BOXES, SPLICE VAULTS, AND CONTROLLER CABINETS ARE APPROXIMATE.
2. ALL FIBER OPTIC CONDUIT BENDS SHALL BE 4 ft RADIUS MINIMUM, AND SHALL BE FACTORY BENDS. ALL OTHER CONDUITS SHALL HAVE A MINIMUM BEND RADIUS OF NO LESS THAN 6 TIMES THE CONDUIT DIAMETER.
3. NEW ELECTRICAL EQUIPMENT LOCATIONS SHOWN ON THE PLANS, INCLUDING PULL BOXES AND CONDUIT, ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS.
4. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, SERVICE EQUIPMENT ENCLOSURES, POWER POLES, AND TELEPHONE DEMARCATION BOXES ARE APPROXIMATE.
5. FOR COMMUNICATION SYSTEM DETAILS SEE SHEET 4-E-35 AND DETAIL SHEETS ED-10 TO ED-19 AND ED-23. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLAN FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.
6. CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS WHICH SHALL RUN CONTINUOUSLY IN ALL NEW AND AFFECTED CIRCUITS. SEE SECTION 86-2.10 OF THE CALTRANS STANDARD SPECIFICATIONS FOR BONDING AND GROUNDING REQUIREMENTS.

PROJECT NOTES: (SHEETS 4-E-29 TO 4-E-34)

[1] PROPOSED ETHERNET COMMUNICATION EQUIPMENT AND CONNECTION DETAILS PROVIDED IN CORRIDOR WIDE FIBER SPLICING DETAILS PLAN.

[2] FOR REFERENCE ONLY, SEE RAMP METERING PLANS.

[3] INSTALL CONDUIT UNDER MSE SLAB. SEE DETAILS SHEET ED-13.

[4] INSTALL SPLICE VAULT AND SPLICE CLOSURES FOR FIBER OPTIC SPLICING, SEE DETAILS SHEET ED-15 FOR DETAILS. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLAN FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.

[5] [RL] EXISTING CABINET AND EQUIPMENT. [RC] EXISTING FOUNDATION AND INSTALL ON NEW FOUNDATION AS INDICATED.

[6] [RC] EXISTING CABLES AND CONDUCTORS. INSTALL NEW CABLES/CONDUCTORS AS NOTED.

[7] TRENCH AND INSTALL CONDUIT IN ASPHALT OR CONCRETE. SEE DETAIL SHEETS ED-10, ED-11 AND ED-12 FOR DETAILS.

[8] TRENCH AND INSTALL CONDUIT IN SOIL. SEE DETAILS SHEET ED-10 FOR DETAILS.

[9] JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE DETAILS SHEET ED-14 FOR DETAILS.

[10] INSTALL NEW CCTV CAMERA ASSEMBLY ON EXISTING CCTV POLE. SEE DETAILS SHEET ED-18 FOR DETAILS.

[11] INSTALL CONDUIT IN NEW BRIDGE EXTENSION PER BRIDGE DETAILS. SEE STRUCTURE PLANS.

[12] EXISTING SPLICE VAULT TO REMAIN. CONTRACTOR SHALL NOT USE INDICATED SPLICE VAULT FOR SPLICING OF FIBER.

[13] INSTALL CONDUIT BEHIND WALL. SEE DETAILS SHEET ED-13.

[14] INSTALL CONDUIT THROUGH EXISTING SOUND WALL.

[15] INSTALL CONDUIT IN CONCRETE BARRIER PER Std PLAN B14-E. SEE STRUCTURE PLANS.

[16] [RS] EXISTING CCTV CAMERA ASSEMBLY. EXISTING CCTV POLE TO REMAIN.

[17] INSTALL PULL BOX IN MSE SLAB. LABEL PULL BOX COVER WITH APPROPRIATE MARK. SEE DETAILS SHEET ED-23 AND WALL PLANS FOR DETAILS.

ABBREVIATIONS: (SHEETS 4-E-29 TO 4-E-35)

F/O OR FO	FIBER OPTIC CABLE
SMFO	SINGLEMODE FIBER OPTIC CABLE
TYPE A CABLE	72 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE B CABLE	48 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE C CABLE	12 SINGLEMODE FIBER OPTIC CABLE (BREAKOUT)
SD	SAN DIEGO
TM	TMS
CC	CCTV
SV	SPLICE VAULT

LEGEND: (SHEETS 4-E-29 TO 4-E-35)

[V]	SPLICE VAULT
[V]	Exist SPLICE VAULT
SD-XXYY.YY	CABINET ID
XX	DENOTES ELECTRICAL SYSTEM, SEE ABBREVIATIONS
YY.YY	DENOTES CABINET PM

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

4-E-28

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
HUBURT KANG	ALEX ZUPANSKI	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 10:25:09 AM DATE PLOTTED => 11/4/2010

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS02-4.dgn

CU 07242

EA 120301

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

NOTE: SEE SHEET 4-E-28 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-08-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 11-08-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

11-08-10
PLANS APPROVAL DATE

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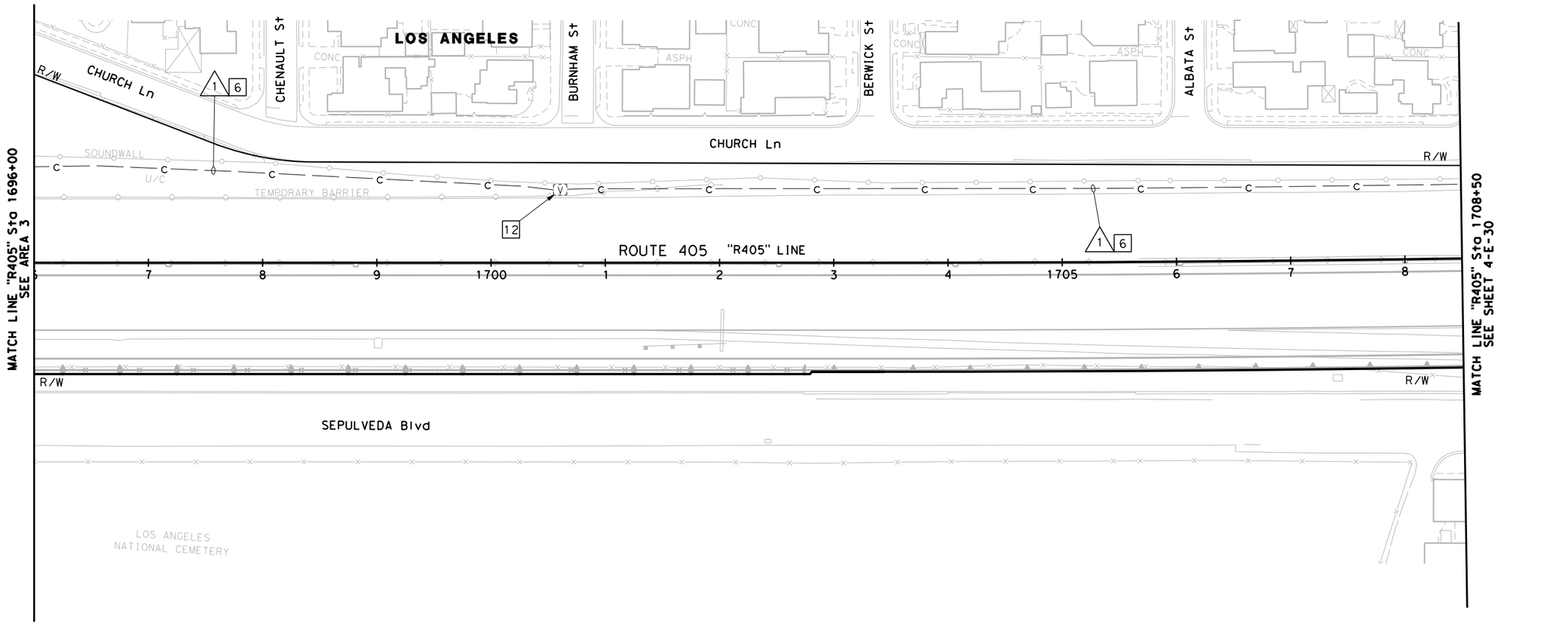
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1			
TYPE A CABLE	TRUNK	1			
TYPE B CABLE	TRUNK		1		
TYPE C CABLE	BREAKOUT			1	
INTERDUCT SIZE 1"		1	1	1	1
PULL ROPE					1
#12 AWG	TRACER WIRE	1			
CONDUIT SIZE		2-4"(E)			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E)=EXISTING



COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

4-E-29

CALCULATED-DESIGNED BY	N/A
CHECKED BY	N/A
REVISED BY	N/A
DATE REVISED	N/A
HUBURT KANG	
ALEX ZUPANSKI	
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 10:25:11 AM DATE PLOTTED => 11/4/2010

BORDER LAST REVISED 4/11/2008

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USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS02-4.dgn

CU 07242 EA 120301

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NOTE: SEE SHEET 4-E-28 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-08-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 11-08-10 DATE

11-08-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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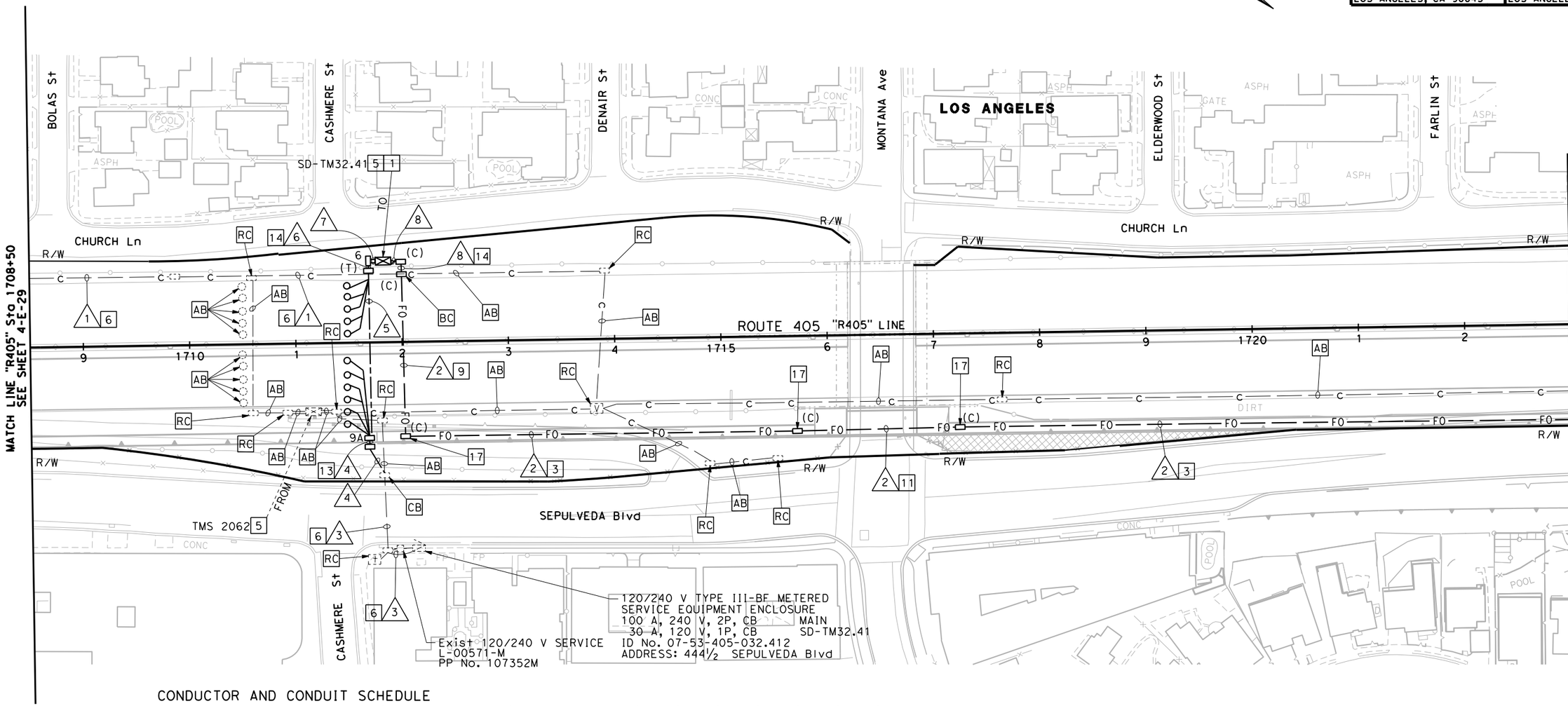
LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2				3	4	5	6	7	8
TYPE A CABLE	TRUNK	1				1									
TYPE B CABLE	TRUNK		1				1								
TYPE C CABLE	BREAKOUT			1				1							2
#6	TMS SERVICE									2	2	2	2	2	
DLC	COUNT											6	11	11	
INTERDUCT SIZE 1"		1	1	1	1	1	1	1	1						
PULL ROPE					1				1						
#12 AWG	TRACER WIRE	1				1									
CONDUIT SIZE		2-4"(E)				4"				2"(E)	2"	3"	3"	2-3"	3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E)=EXISTING

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

4-E-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: N/A
DATE REVISED: N/A

LAST REVISION 00-00-00 TIME PLOTTED => 10:25:13 AM DATE PLOTTED => 11/4/2010

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

NOTE: SEE SHEET 4-E-28 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

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KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-08-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 11-08-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

11-08-10
PLANS APPROVAL DATE

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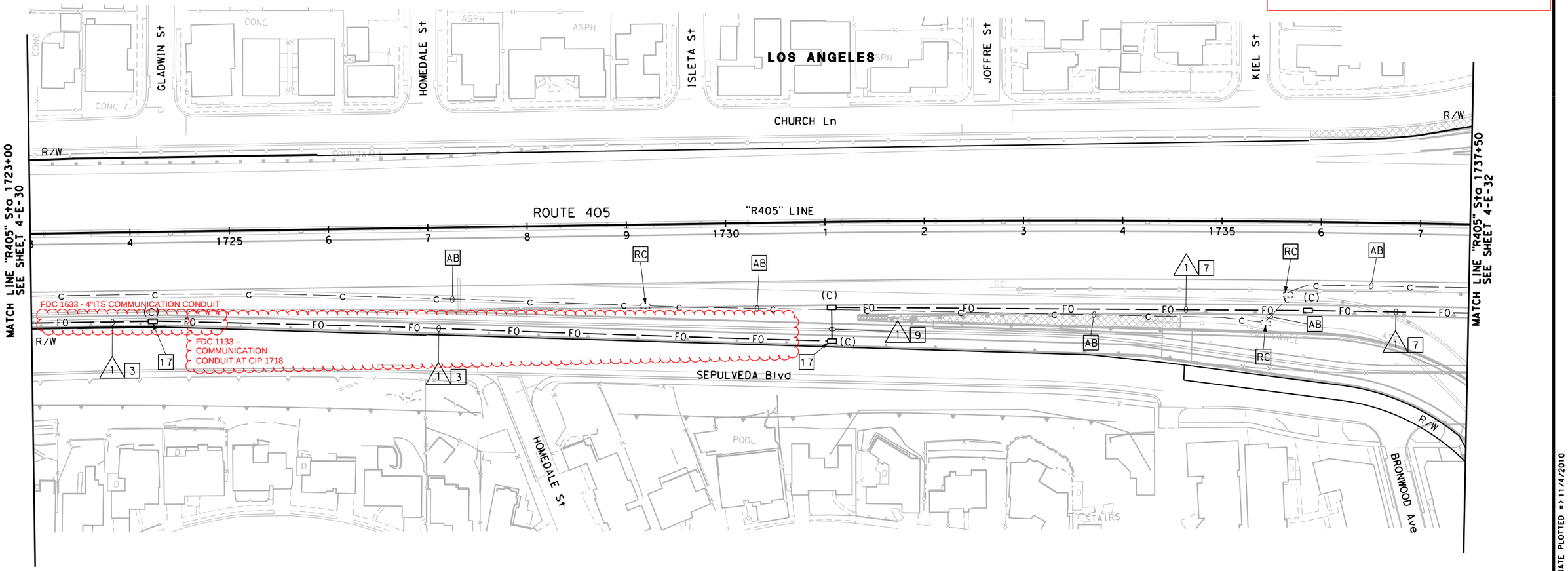
LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

SHEET MODIFICATIONS:

1. NDC 0202 - REVISIONS PER 10' SHOULDER ON SUNSET OFF RAMP
2. FDC 1905 - ITS CONDUIT
3. NCR 0641 - CONDUIT INSTALLATION OUT OF ALIGNMENT



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1			
TYPE A CABLE	TRUNK	1			
TYPE B CABLE	TRUNK		1		
TYPE C CABLE	BREAKOUT			1	
INTERDUCT SIZE 1"		1	1	1	1
PULL ROPE					1
#12 AWG	TRACER WIRE	1			
CONDUIT SIZE		4"			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

4-E-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: N/A N/A N/A N/A N/A
DATE REVISED: N/A N/A N/A N/A N/A

LAST REVISION 00-00-00
TIME PLOTTED => 10:25:15 AM DATE PLOTTED => 11/4/2010

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS02-4.dgn
CU 07242
EA 120301

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

NOTE: SEE SHEET 4-E-28 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

SHEET MODIFICATIONS:

1. NDC 0202 - REVISIONS PER 10' SHOULDER ON SUNSET OFF RAMP
2. FDC 0833 - BORE AT STA 1740+50 CONFLICT
3. FDC 1427 - ITS CONDUIT IN BARRIER
4. FDC 1905 - ITS CONDUIT
5. FDC 1974 - CORE TOP OF MSE PANEL IN BETWEEN THE MSE WALL STRAPS
6. FDC 2021 - CORE DRILL THROUGH BRIDGE 17 MSE WALL PANEL
7. FDC 2029 - CONDUIT UNDER MICRO PILES

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-08-10
1	NDC 235: BMP 29 ADDITION	08-03-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 11-08-10 DATE

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

11-08-10
PLANS APPROVAL DATE

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LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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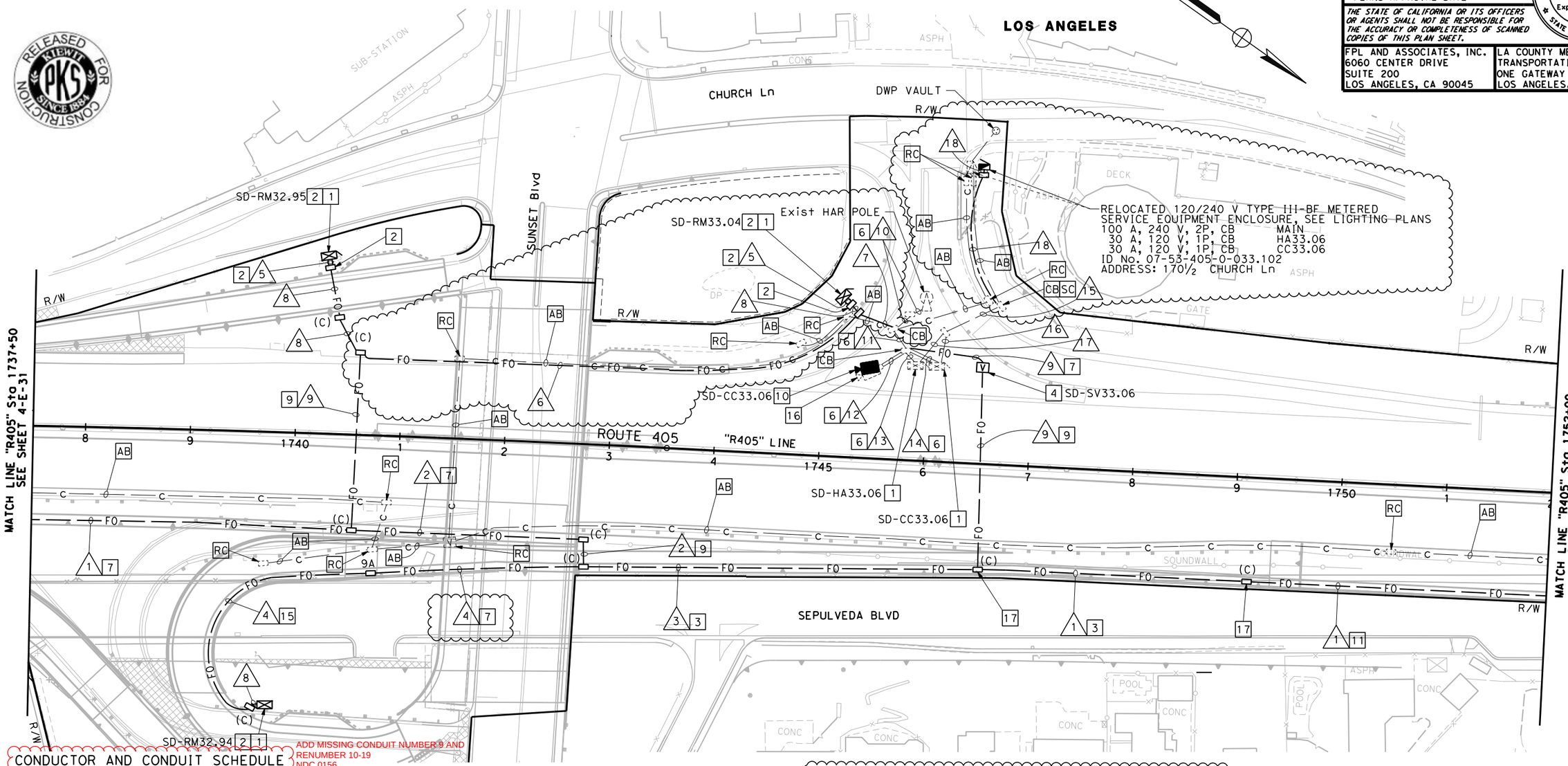

CONDUCTOR AND CONDUIT SCHEDULE

ADD MISSING CONDUIT NUMBER 9 AND RENUMBER 10-19 NDC 0156

AWG OR CABLE	FUNCTION	1				2				3				4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
TYPE A CABLE	TRUNK	1				1				1																		
TYPE B CABLE	TRUNK		1				1				1																	
TYPE C CABLE	BREAKOUT			1								1	1	2	2	1	1	2	1		1		2	2				
#8 SERVICE	SD-CC33.06																								2(E)	2(E)		2
#8 SERVICE	SD-HA33.06																								2(E)		2(E)	2
HAR CABLE																				1	1		1					
CCTV MULTI-CONDUCTOR CABLE																						1		1				
INTERDUCT SIZE 1"		1	1	1	1	1	1	1	1	1	1	1	1															
PULL ROPE					1			1	1																			
#12 AWG	TRACER WIRE	1				1				1																		
CONDUIT SIZE		4"				4"				4"				2"	2-3"	3"	3"	3"	3"	2"(E)	2"(E)	2-2"(E)	2"(E)	2-4"(E)	2"(E)	2"(E)	2"(E)	2"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E)=EXISTING

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

4-E-32

N/A	N/A
N/A	N/A
HK	08-03-12
REVISED BY	DATE REVISED
HUBURT KANG	ALEX ZUPANSKI
CALCULATED-DESIGNED BY	CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 2:35:57 PM DATE PLOTTED => 8/13/2012

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

NOTE: SEE SHEET 4-E-28 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION
KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-08-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 11-08-10 DATE

11-08-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALEXANDER ZUPANSKI
No. 59351
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA

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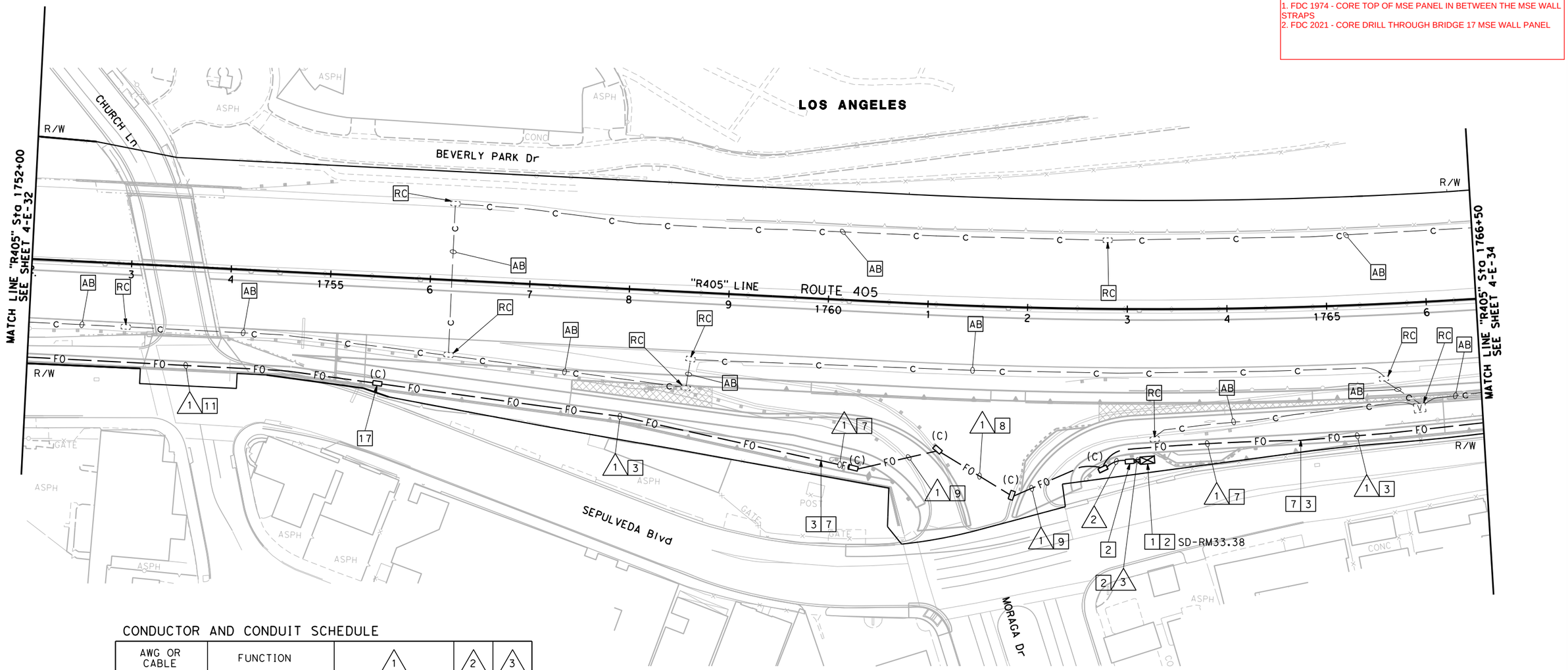
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

SHEET MODIFICATIONS:

1. FDC 1974 - CORE TOP OF MSE PANEL IN BETWEEN THE MSE WALL STRAPS
2. FDC 2021 - CORE DRILL THROUGH BRIDGE 17 MSE WALL PANEL



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3
TYPE A CABLE	TRUNK	1					
TYPE B CABLE	TRUNK		1				
TYPE C CABLE	BREAKOUT			1		2	2
INTERDUCT SIZE 1"		1	1	1	1		
PULL ROPE					1		
#12 AWG	TRACER WIRE	1					
CONDUIT SIZE		4"				3"	2-3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

4-E-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI

REVISED BY: N/A N/A N/A N/A
DATE REVISED: N/A N/A N/A N/A

LAST REVISION 00-00-00
TIME PLOTTED => 10:25:19 AM DATE PLOTTED => 11/4/2010

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USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS02-4.dgn

CU 07242

EA 120301

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

NOTE: SEE SHEET 4-E-28 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION
KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-08-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 11-08-10 DATE

11-08-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALEXANDER ZUPANSKI
No. 59351
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA

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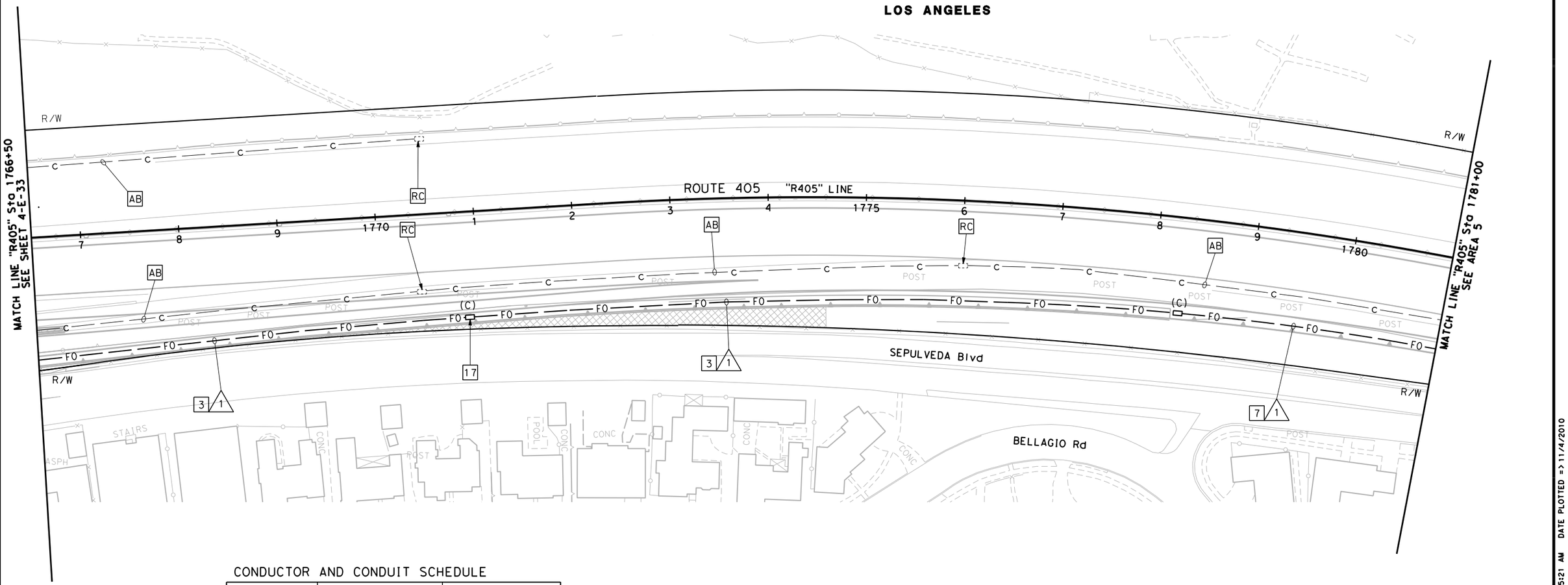
LOS ANGELES, CA 90012

LOS ANGELES



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1			
TYPE A CABLE	TRUNK	1			
TYPE B CABLE	TRUNK		1		
TYPE C CABLE	BREAKOUT			1	
INTERDUCT SIZE 1"		1	1	1	1
PULL ROPE					1
#12 AWG	TRACER WIRE	1			
CONDUIT SIZE		4"			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

4-E-34

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
HUBURT KANG	ALEX ZUPANSKI	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 10:25:21 AM DATE PLOTTED => 11/4/2010

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Hubert Kang
DGN FILE => 45710-S-TR-ITS02-4.dgn

CU 07242

EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	08-12-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 08-12-11

REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/13 — CIVIL — STATE OF CALIFORNIA

08-12-11
PLANS APPROVAL DATE

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ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

SHEET MODIFICATIONS:

1. FDC 0780 - MISSING BARRIER SLAB DETAILS
2. RFI 2092 - METAL BEAM GUARD RAILING

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

GENERAL NOTES: (SHEETS 5-E-16 TO 5-E-20)

1. THE LOCATIONS OF EXISTING ELECTRICAL FACILITIES SUCH AS UNDERGROUND CONDUITS, PULL BOXES, SPLICE VAULTS, AND CONTROLLER CABINETS ARE APPROXIMATE.
2. ALL FIBER OPTIC CONDUIT BENDS SHALL BE 4 ft RADIUS MINIMUM, AND SHALL BE FACTORY BENDS. ALL OTHER CONDUITS SHALL HAVE A MINIMUM BEND RADIUS OF NO LESS THAN 6 TIMES THE CONDUIT DIAMETER.
3. NEW ELECTRICAL EQUIPMENT LOCATIONS SHOWN ON THE PLANS, INCLUDING PULL BOXES AND CONDUIT, ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS.
4. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, SERVICE EQUIPMENT ENCLOSURES, POWER POLES, AND TELEPHONE DEMARCATION BOXES ARE APPROXIMATE.
5. FOR COMMUNICATION SYSTEM DETAILS SEE SHEETS 5-E-20 AND DETAIL SHEETS ED-10 TO ED-19, AND ED-23. CORRIDOR WIDE FIBER SPLICING DETAILS PLAN FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.
6. CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS WHICH SHALL RUN CONTINUOUSLY IN ALL NEW AND AFFECTED CIRCUITS. SEE SECTION 86-2.10 OF THE CALTRANS STANDARD SPECIFICATIONS FOR BONDING AND GROUNDING REQUIREMENTS.

PROJECT NOTES: (SHEETS 5-E-16 TO 5-E-19)

[1] PROPOSED ETHERNET COMMUNICATION EQUIPMENT AND CONNECTION DETAILS TO BE PROVIDED IN CORRIDOR WIDE FIBER SPLICING DETAILS PLAN.

[2] FOR REFERENCE ONLY, SEE RAMP METERING PLANS.

[3] INSTALL CONDUIT UNDER MSE SLAB. SEE DETAILS SHEET ED-13.

[4] [RS] EXISTING CCTV POLE AND CAMERA ASSEMBLY. [RC] EXISTING FOUNDATION.

[5] INSTALL CONDUIT IN NEW BRIDGE WIDENING SEE STRUCTURE PLANS FOR DETAILS.

[6] INSTALL NEW CCTV TYPE 45 POLE, CAMERA ASSEMBLY ON NEW FOUNDATION. SEE DETAILS SHEET ED-18.

[7] [RL] EXISTING CABINET AND EQUIPMENT ON NEW FOUNDATION.
[RC] EXISTING FOUNDATION.

[8] TRENCH AND INSTALL CONDUIT IN ASPHALT OR CONCRETE. SEE DETAILS SHEET ED-10, ED-11 AND ED-12.

[9] JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE DETAILS SHEET ED-14.

[10] INSTALL CONDUIT BEHIND MSE WALL. SEE DETAILS ON SHEET ED-13.

[11] INSTALL SPLICE VAULT AND SPLICE CLOSURES FOR FIBER OPTIC SPLICING. SEE DETAILS SHEET ED-15. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLANS.

[12] SEE LIGHTING AND SIGN ILLUMINATION PLANS FOR INSTALLATION.

[13] INSTALL PULL BOX IN MSE SLAB. LABEL PULL BOX COVER WITH APPROPRIATE MARK. SEE DETAILS SHEET ED-23 AND WALL PLANS FOR DETAILS.

ABBREVIATION: (SHEETS 5-E-16 TO 20)

F/O OR FO	FIBER OPTIC CABLE
SMFO	SINGLEMODE FIBER OPTIC CABLE
TYPE A CABLE	72 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE B CABLE	48 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE C CABLE	12 SINGLEMODE FIBER OPTIC CABLE (BREAKOUT)
SD	SAN DIEGO
TM	TMS
CC	CCTV
CM	CMS
SV	SPLICE VAULT

LEGEND: (SHEETS 5-E-16 TO 5-E-20)

[V]	SPLICE VAULT
{V}	Exist SPLICE VAULT
SD-XXYY.YY	CABINET ID
XX	DENOTES ELECTRICAL SYSTEM, SEE ABBREVIATIONS
YY.YY	DENOTES CABINET PM

COMMUNICATION SYSTEM

NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

5-E-15

CALCULATED-DESIGNED BY	N/A
CHECKED BY	N/A
REVISED BY	N/A
DATE REVISED	N/A
HUBURT KANG	
ALEX ZUPANSKI	
CONSULTANT FUNCTIONAL SUPERVISOR	
BRIAN BURKHARD	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => 4:41:25 PM — DATE PLOTTED => 8/11/2011

BORDER LAST REVISED 4/11/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => Huburt Kang — DGN FILE => 45710-S-TR-ITS02-5.dgn — CU 07242 — EA 120301

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

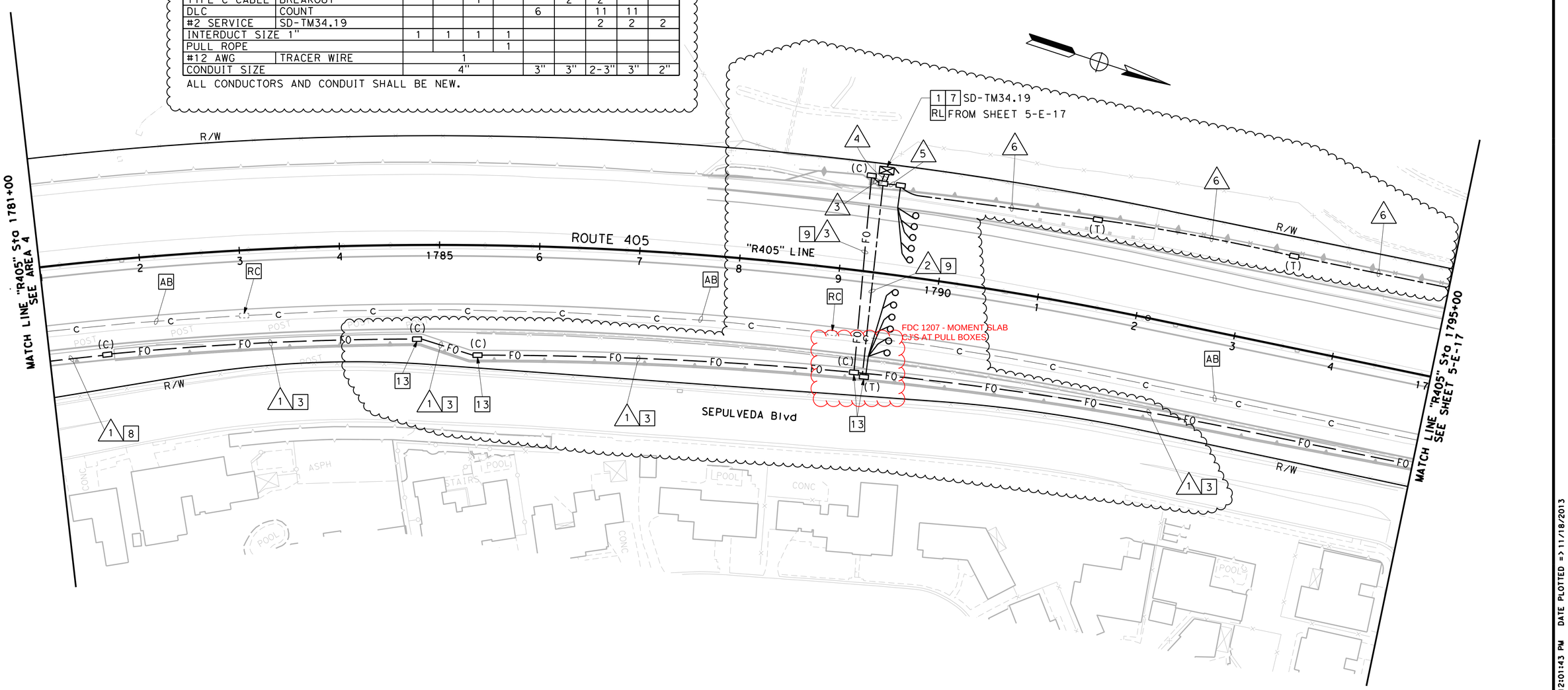
NOTE:

1. SEE SHEET 5-E-15 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6
TYPE A CABLE	TRUNK	1								
TYPE B CABLE	TRUNK		1							
TYPE C CABLE	BREAKOUT			1			2	2		
DLC	COUNT					6		11	11	
#2 SERVICE	SD-TM34.19							2	2	2
INTERDUCT SIZE 1"		1	1	1	1					
PULL ROPE					1					
#12 AWG	TRACER WIRE	1								
CONDUIT SIZE		4"				3"	3"	2-3"	3"	2"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.



REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	08-12-11
	FDC 1042 & NCR 481 REVISIONS	04-19-13
1	NDC 494: GETTY MVP & BARRIER RAIL	11-19-13

SHEET MODIFICATIONS:

1. FDC 0780 - MISSING BARRIER SLAB DETAILS
2. FDC 1942 - COMM PULL BOX CONFLICT WITH DI

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 08-12-11 DATE

08-12-11 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/15 CIVIL STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

5-E-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: ADZ
DATE REVISED: 04-19-13
EF: 11-19-13
N/A: N/A

LAST REVISION 00-00-00
TIME PLOTTED => 12:01:43 PM DATE PLOTTED => 11/18/2013

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => Nicole
DGN FILE => 45710-S-TR-ITS02-5.dgn
CU 07242
EA 120301

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

NOTE:

1. SEE SHEET 5-E-15 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION
KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
	FDC 410 REVISIONS	08-09-12
	FDC 780 REVISIONS	11-08-12
1	NDC 494: GETTY MVP & BARRIER RAIL	11-19-13

SHEET MODIFICATIONS:

1. FDC 1035 - BLOCKOUT FOR PULL BOXES IN MOMENT SLAB
2. FDC 2250 - FLUSH PULL BOXES WITH FINISH GRADE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 08-12-11

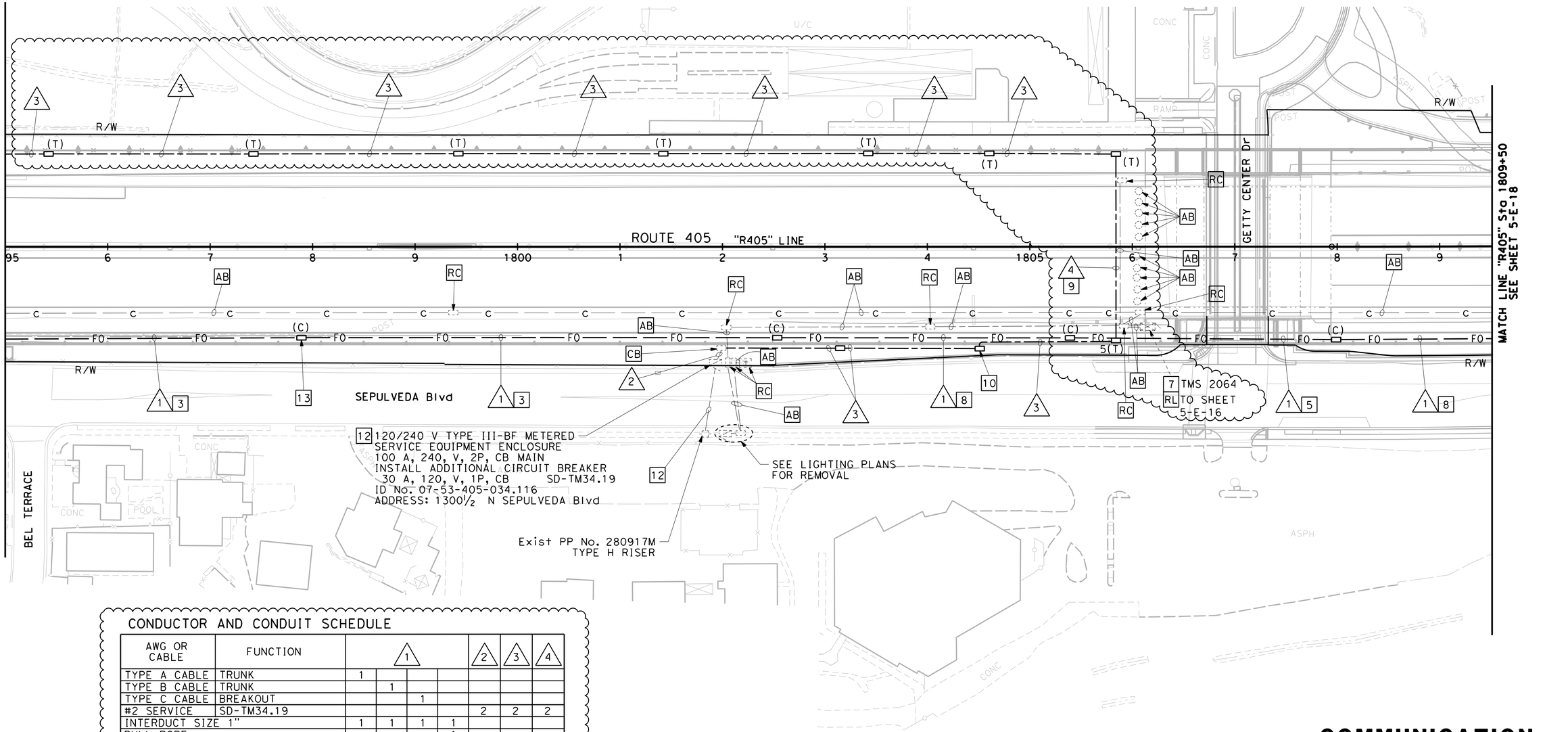
ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

08-12-11
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4
TYPE A CABLE	TRUNK	1						
TYPE B CABLE	TRUNK		1					
TYPE C CABLE	BREAKOUT			1				
#2 SERVICE	SD-TM34.19					2	2	2
INTERDUCT SIZE 1"		1	1	1	1			
PULL ROPE					1			
#12 AWG	TRACER WIRE	1						
CONDUIT SIZE		4"				2"(E)	2"	3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E) = EXISTING

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

5-E-17

	EF	HK	HK	REVISED BY	CALCULATED-DESIGNED BY	HUBURT KANG	CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
	11-19-13	11-08-12	08-09-12	DATE REVISED	CHECKED BY	ALEX ZUPANSKI			Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 12:03:08 PM DATE PLOTTED => 11/18/2013

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Nicole
DGN FILE => 45710-S-TR-ITS02-5.dgn

CU 07242

EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	08-12-11
1	FDC 780 & NDC 467: NB GETTY ON/OFF RAMPS REVISED	06-21-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 08-12-11 DATE

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

08-12-11
PLANS APPROVAL DATE

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FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTE:

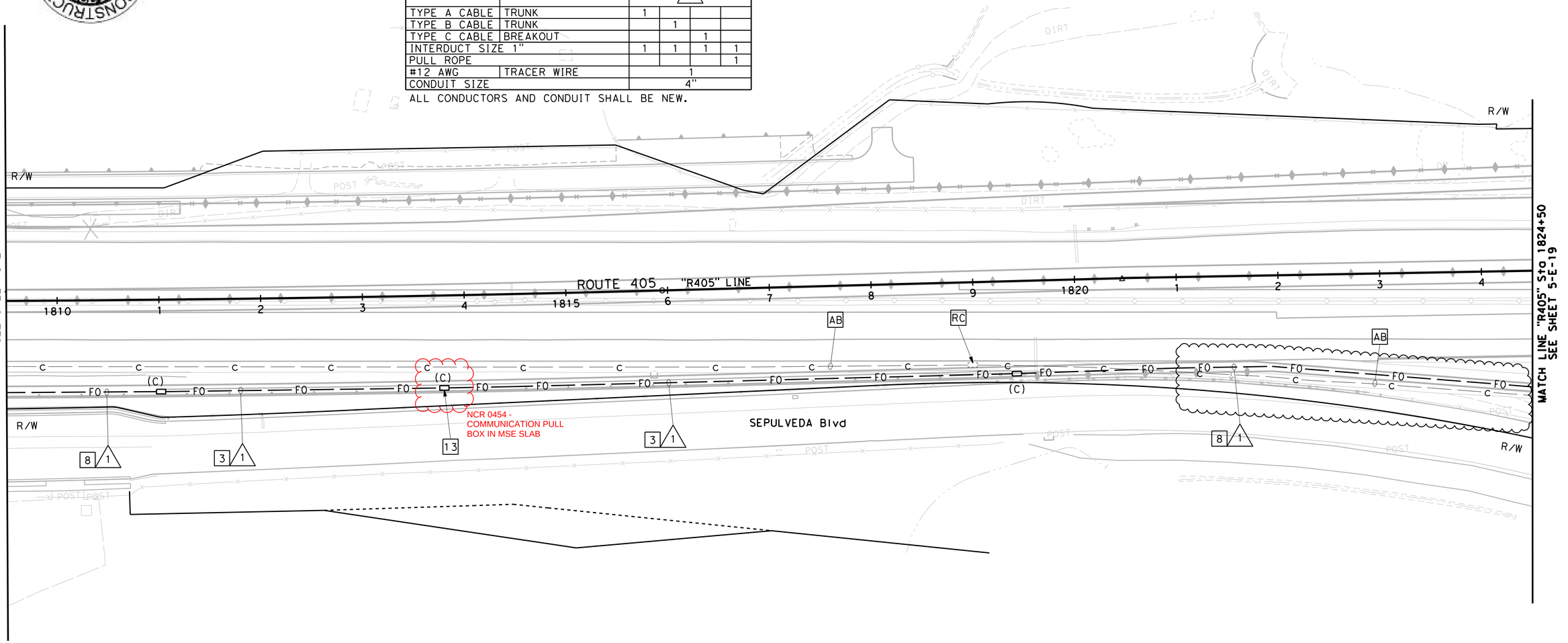
1. SEE SHEET 5-E-15 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1			
TYPE A CABLE	TRUNK	1			
TYPE B CABLE	TRUNK		1		
TYPE C CABLE	BREAKOUT			1	
INTERDUCT SIZE 1"		1	1	1	1
PULL ROPE					1
#12 AWG	TRACER WIRE	1			
CONDUIT SIZE		4"			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.



COMMUNICATION SYSTEM

SCALE : 1"=50'

5-E-18

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

N/A	N/A		
N/A	N/A		
EF	06-21-13		
REVISED BY	DATE REVISED		
HUBURT KANG	ALEX ZUPANSKI		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR			
BRIAN BURKHARD			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			
Caltrans			

LAST REVISION 00-00-00 TIME PLOTTED => 4:27:30 PM DATE PLOTTED => 7/18/2013

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => Alex DGN FILE => 45710-S-TR-ITS02-5.dgn | CU 07242 | EA 120301

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

NOTE:

1. SEE SHEET 5-E-15 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

SHEET MODIFICATIONS:

1. RFI 2092 - METAL BEAM GUARD RAILING

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	08-12-11
1	NDC 391 - REVISED NB ON RAMP	07-11-12
2	NDC 467 - NB GETTY ON/OFF RAMPS REVISED	06-21-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 08-12-11 DATE

08-12-11 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/15 CIVIL STATE OF CALIFORNIA

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

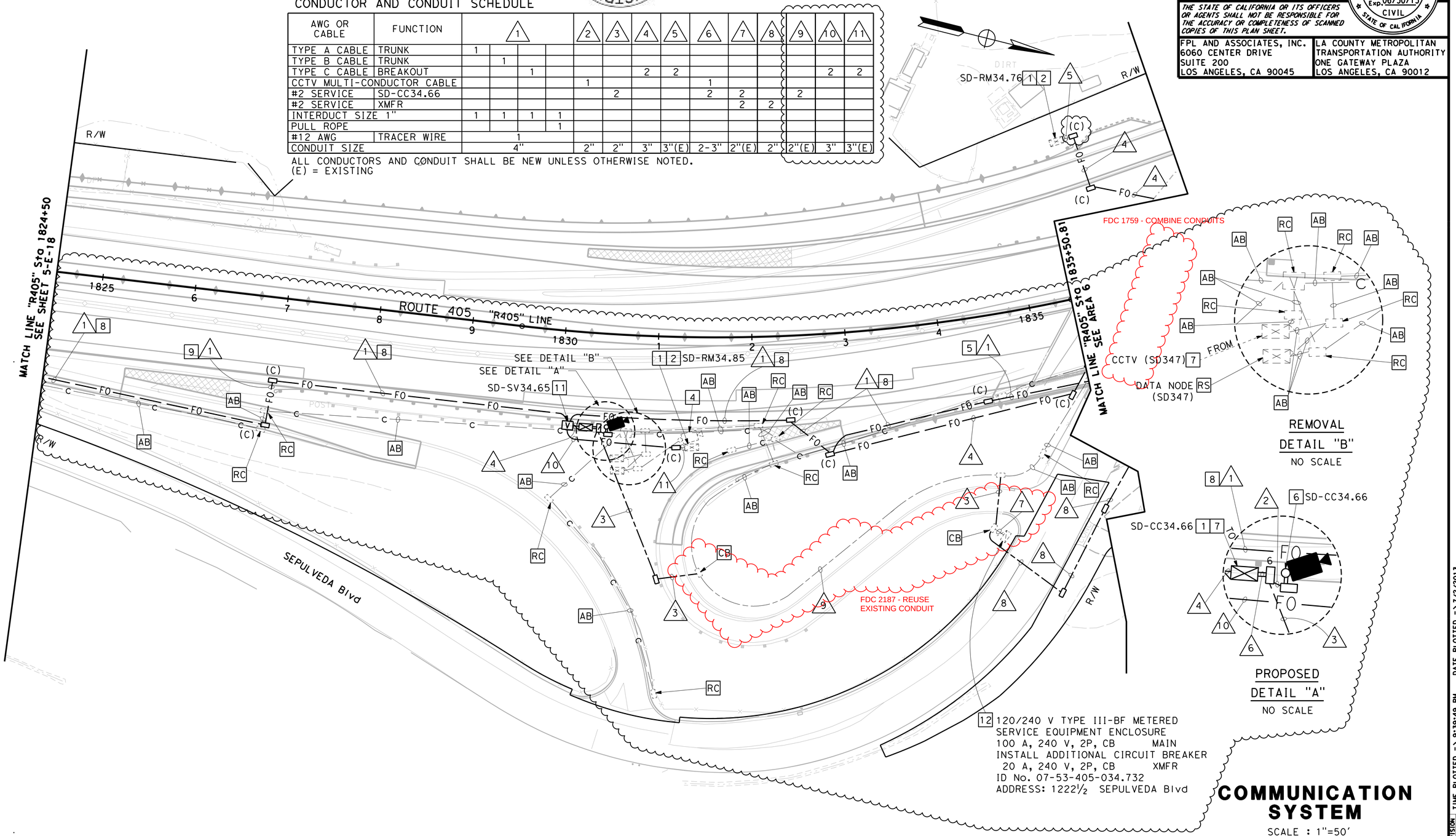
FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6	7	8	9	10	11
TYPE A CABLE	TRUNK	1													
TYPE B CABLE	TRUNK		1												
TYPE C CABLE	BREAKOUT			1				2	2					2	2
CCTV MULTI-CONDUCTOR CABLE						1				1					
#2 SERVICE	SD-CC34.66						2			2	2		2		
#2 SERVICE	XMFR										2	2			
INTERDUCT SIZE 1"		1	1	1	1										
PULL ROPE					1										
#12 AWG	TRACER WIRE	1													
CONDUIT SIZE		4"				2"	2"	3"	3"(E)	2-3"	2"(E)	2"	2"(E)	3"	3"(E)

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E) = EXISTING



12 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE
100 A, 240 V, 2P, CB MAIN
INSTALL ADDITIONAL CIRCUIT BREAKER
20 A, 240 V, 2P, CB XMFR
ID No. 07-53-405-034.732
ADDRESS: 1222½ SEPULVEDA Blvd

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

5-E-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: HK
DATE REVISED: 07-11-12
EF: 06-21-13
N/A: N/A

LAST REVISION 00-00-00
TIME PLOTTED => 9:39:49 PM
DATE PLOTTED => 7/2/2013

REVISION	DESCRIPTION	DATE
1	REVISED FOR AREA 6 RELEASE	12-03-10
2	NDC 391 - REVISED NB ON RAMP	07-11-12
3	NDC 467 - NB GETTY ON/OFF RAMPS REVISED	06-21-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 11-11-10 DATE

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

11-11-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

GENERAL NOTES: (SHEETS 6-E-31 TO 6-E-43)

1. THE LOCATIONS OF EXISTING ELECTRICAL FACILITIES SUCH AS UNDERGROUND CONDUITS, PULL BOXES, SPLICE VAULTS, AND CONTROLLER CABINETS ARE APPROXIMATE.
2. ALL FIBER OPTIC CONDUIT BENDS SHALL BE 4 ft RADIUS MINIMUM, AND SHALL BE FACTORY BENDS. ALL OTHER CONDUITS SHALL HAVE A MINIMUM BEND RADIUS OF NO LESS THAN 6 TIMES THE CONDUIT DIAMETER.
3. NEW ELECTRICAL EQUIPMENT LOCATIONS SHOWN ON THE PLANS, INCLUDING PULL BOXES AND CONDUIT, ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS.
4. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, SERVICE EQUIPMENT ENCLOSURES, POWER POLES, AND TELEPHONE DEMARCATION BOXES ARE APPROXIMATE.
5. FOR COMMUNICATION SYSTEM DETAILS SEE SHEETS 6-E-42, 6-E-43 AND DETAIL SHEETS ED-10 TO ED-19, ED-21 TO ED-23. CORRIDOR WIDE FIBER SPLICING DETAILS PLAN FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.
6. CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS WHICH SHALL RUN CONTINUOUSLY IN ALL NEW AND AFFECTED CIRCUITS. SEE SECTION 86-2.10 OF THE CALTRANS STANDARD SPECIFICATIONS FOR BONDING AND GROUNDING REQUIREMENTS.

ABBREVIATION: (SHEETS 6-E-31 TO 6-E-43)

F/O OR FO	FIBER OPTIC CABLE
SMFO	SINGLEMODE FIBER OPTIC CABLE
TYPE A CABLE	72 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE B CABLE	48 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE C CABLE	12 SINGLEMODE FIBER OPTIC CABLE (BREAKOUT)
SD	SAN DIEGO
TM	TMS
CC	CCTV
CM	CMS
SV	SPLICE VAULT

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

LEGEND: (SHEETS 6-E-31 TO 6-E-43)

[V]	SPLICE VAULT
[V]	Exist SPLICE VAULT
SD-XXYY.YY	CABINET ID
XX	DENOTES ELECTRICAL SYSTEM, SEE ABBREVIATIONS
YY.YY	DENOTES CABINET PM

PROJECT NOTES: (SHEETS 6-E-31 TO 6-E-41)

1. PROPOSED ETHERNET COMMUNICATION EQUIPMENT AND CONNECTION DETAILS TO BE PROVIDED IN CORRIDOR WIDE FIBER SPLICING DETAILS PLAN.
2. FOR REFERENCE ONLY, SEE RAMP METERING PLANS.
3. INSTALL CONDUIT UNDER MSE SLAB. SEE DETAILS SHEET ED-13.
4. INSTALL SPLICE VAULT AND SPLICE CLOSURES FOR FIBER OPTIC SPLICING. SEE DETAILS SHEET ED-15. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLANS.
5. [RS] EXISTING CCTV POLE AND CAMERA ASSEMBLY. [RC] EXISTING FOUNDATION.
6. INSTALL CONDUIT IN NEW BRIDGE WIDENING. SEE STRUCTURE PLANS FOR DETAILS.
7. INSTALL NEW CCTV TYPE 45 POLE, CAMERA ASSEMBLY AND NEW FOUNDATION. SEE DETAILS SHEET ED-18.

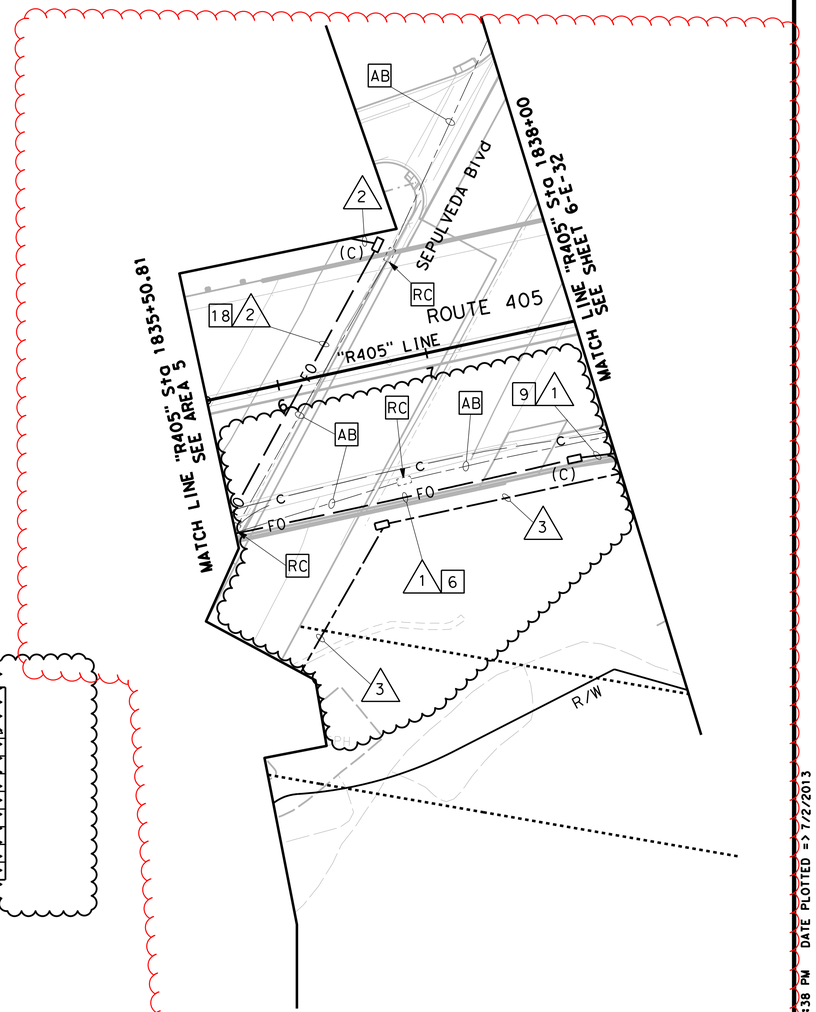
RFI 1970 - BRIDGE 19 HANGER SIZE

8. [RL] EXISTING CABINET AND EQUIPMENT ON NEW FOUNDATION.
   [RC] EXISTING FOUNDATION.
9. TRENCH AND INSTALL CONDUIT IN ASPHALT OR CONCRETE. SEE DETAILS SHEET ED-10, ED-11 AND ED-12.
10. JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE DETAILS SHEET ED-14.
11. INSTALL CONDUIT IN CONCRETE BARRIER. SEE STRUCTURE PLANS.
12. RELOCATED EXISTING CMS 500 ON NEW POLE AND FOUNDATION, SEE CIVIL AND STRUCTURE PLANS FOR DETAILS. SEE DETAILS SHEET ED-22 FOR CMS WIRING.
13. RELOCATE EXISTING CMS 500 AS INDICATED. REFER TO CIVIL PLANS FOR REMOVAL OF CMS POLE AND FOUNDATION.
14. ~~[RS] EXISTING CAMERA ASSEMBLY AND INSTALL NEW CAMERA ASSEMBLY ON EXISTING CCTV POLE. SEE DETAILS SHEET ED-18.~~
15. [RS] EXISTING 120/240 V TYPE III-BF METERED SERVICE AND
    [RC] EXISTING FOUNDATION.
    INSTALL 120/240 V TYPE III-CF METERED SERVICE EQUIPMENT ENCLOSURE WITH
    METER#1
    200 A, 240 V, 2P, CB — MAIN
    80 A, 240 V, 2P, CB — CM35.69
    30 A, 120 V, 1P, CB — CM35.69 CABINET
    METER#2
    100 A, 240 V, 2P, CB — MAIN
    30 A, 120 V, 1P, CB — TM35.69 CABINET
    30 A, 120 V, 1P, CB — CC35.69 CABINET
    ID No. 07-53-405-035.800
    ADDRESS: 12010½ BEL AIR CREST
    ON NEW FOUNDATION AT ORIGINAL LOCATION INSTALL CONDUITS AS INDICATED ON PLANS.
16. INSTALL CONDUIT BEHIND MSE WALL. SEE DETAILS SHEET ED-13.
17. FOR INSTALLATION SEE LIGHTING PLANS.
18. TRENCH AND INSTALL CONDUIT UNDER BRIDGE UNDERCROSSING.
19. INSTALL UNMETERED TYPE III-D SERVICE EQUIPMENT ENCLOSURE WITH:
    240 V TO 120 V STEP-DOWN 3 kVA XFMR
    1-100 A, 240 V, 2P, CB — MAIN
    1- 30 A, 240 V, 2P, CB — XFMR
    1- 30 A, 120 V, 1P, CB — SD-TM35.22
    1- 30 A, 120 V, 1P, CB — SD-CC35.22
    SEE DETAILS SHEET ED-22.
20. INSTALL PULL BOX IN MSE SLAB. LABEL PULL BOX COVER WITH APPROPRIATE MARK. SEE DETAILS SHEET ED-23 AND WALL PLANS FOR DETAILS.

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3
TYPE A CABLE	TRUNK	1					
TYPE B CABLE	TRUNK		1				
TYPE C CABLE	BREAKOUT			1		2	
#2 SERVICE	XMFR						2
INTERDUCT SIZE 1"		1	1	1	1		
PULL ROPE					1		
#12 AWG	TRACER WIRE	1					
CONDUIT SIZE		4"				3"	2"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.



NDC 0434 - REVISED ELECTRICAL PLANS

SHEET MODIFICATIONS:

1. NDC 0482 - ON OFF RAMP NAMING
2. FDC 2004 - ADDITIONAL ITS BENDS AND ADAPTER

CHANGES IN PROCESS:

1. NCR 0662 - HANGING CONDUIT

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

6-E-31

	EF	HK	REVISED BY	DATE REVISED
	06-21-13	12-03-10	HUBURT KANG	ALEX ZUPANSKI
	07-11-12			

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 10:59:38 PM DATE PLOTTED => 7/2/2013

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => Nicole DGN FILE => 45710-S-TR-ITS03-6.dgn | CU 07242 | EA 120301

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

NOTE:

1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3
TYPE A CABLE	TRUNK	1					
TYPE B CABLE	TRUNK		1				
TYPE C CABLE	BREAKOUT			1		2	
#2 SERVICE	XMFR						2
INTERDUCT SIZE 1"		1	1	1	1		
PULL ROPE					1		
#12 AWG	TRACER WIRE	1					
CONDUIT SIZE		4"				3"	2"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	12-03-10
1	NDC 391 - REVISED NB ON RAMP	07-11-12
2	NDC 467 - NB GETTY ON/OFF RAMPS REVISED	06-21-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 12-03-10 DATE

12-03-10 PLANS APPROVAL DATE

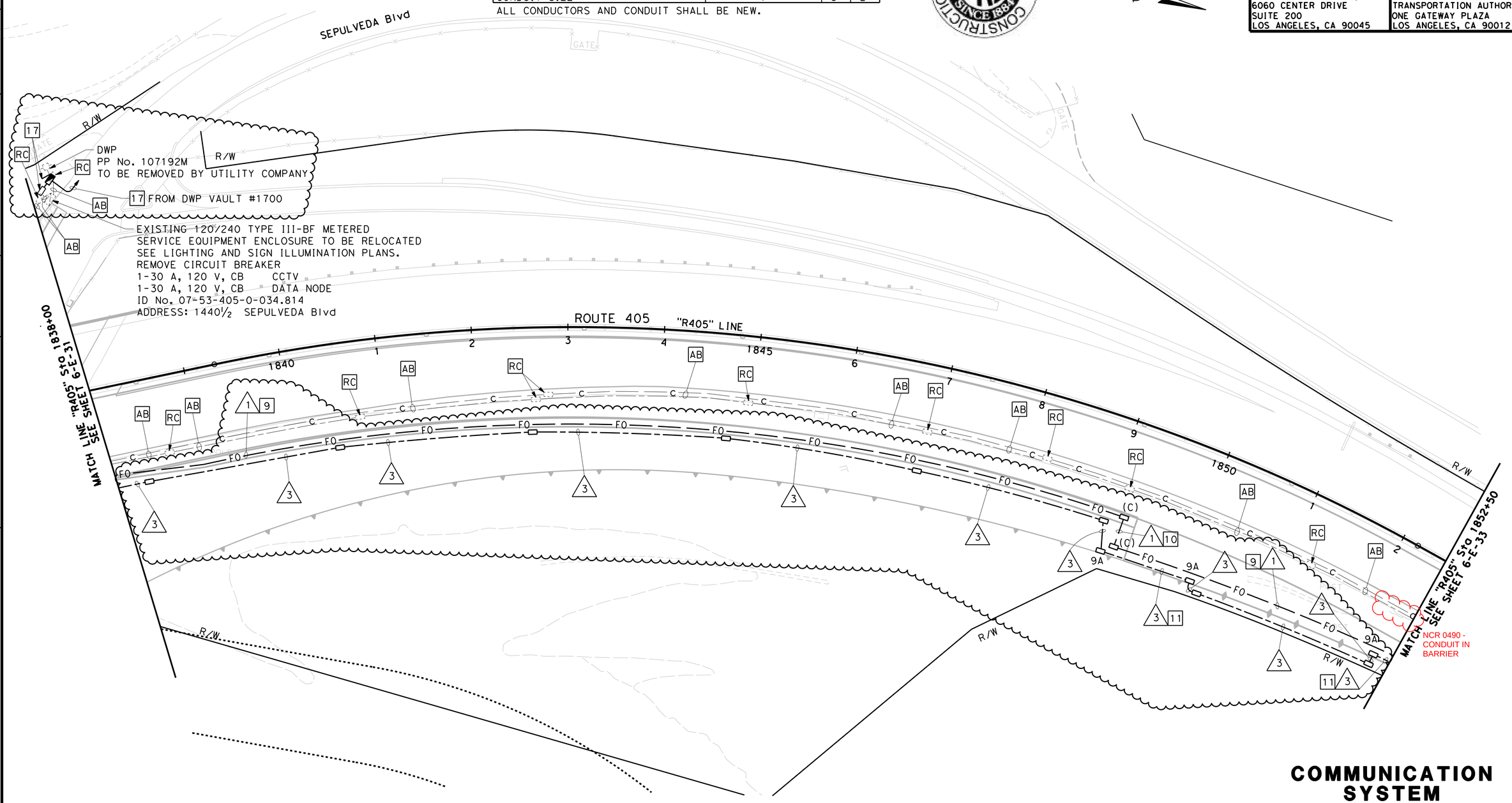
REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/15 CIVIL STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

RELEASED FOR CONSTRUCTION KIEWIT PKS SINCE 1884



COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

6-E-32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

CALCULATED-DESIGNED BY: HUBURT KANG

CHECKED BY: ALEX ZUPANSKI

REVISED BY: HK

DATE REVISED: 07-11-12

EF: 06-21-13

N/A

N/A

LAST REVISION 00-00-00

TIME PLOTTED => 10:13:51 PM DATE PLOTTED => 7/2/2013

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Nicole
DGN FILE => 45710-S-TR-ITS03-6.dgn

CU 07242

EA 120301

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

NOTE:

1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	12-03-10
1	NDC 467 - NB GETTY ON/OFF RAMPS REVISED	06-21-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 12-03-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

12-03-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

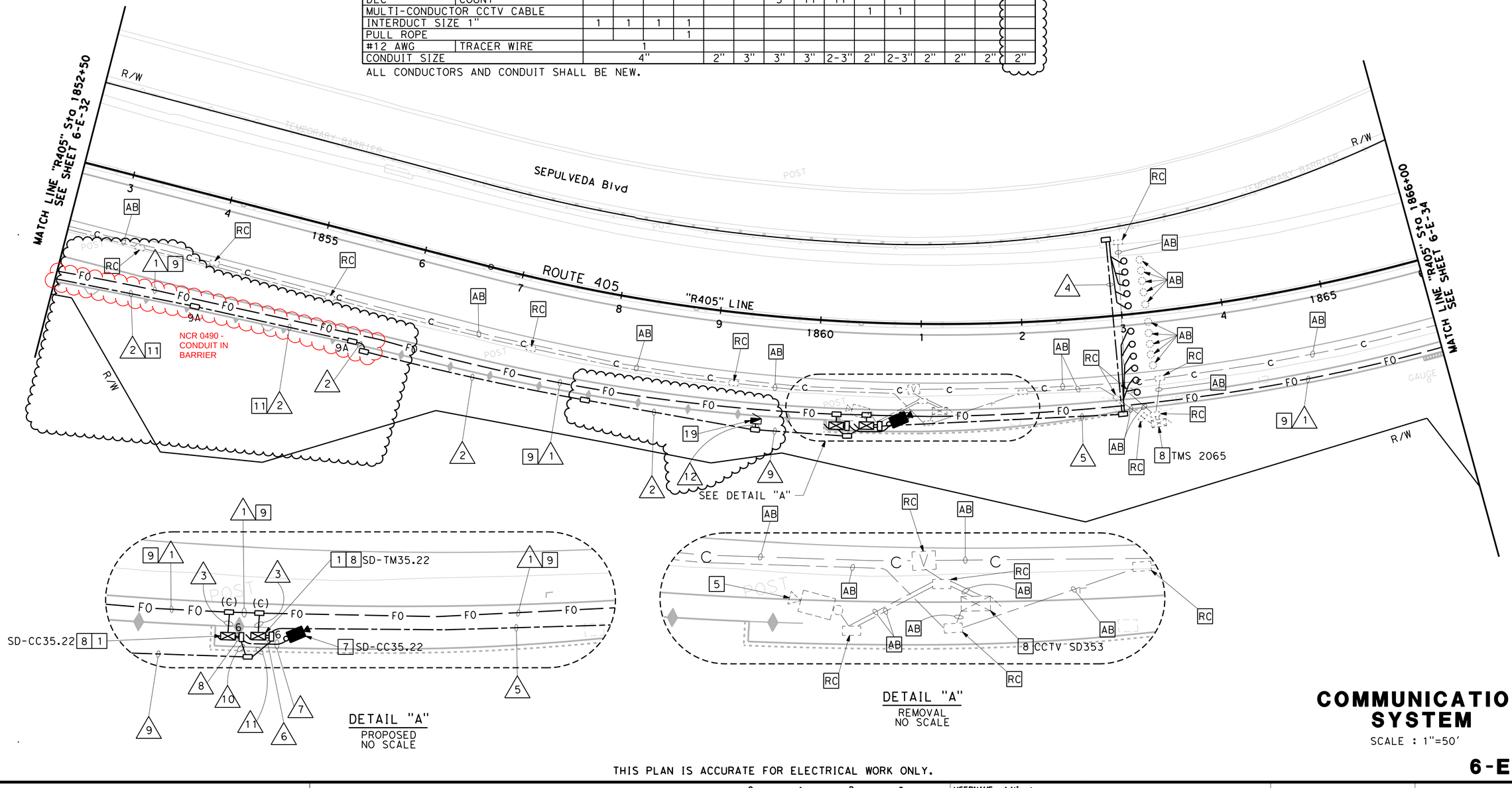
LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6	7	8	9	10	11	12
TYPE A CABLE	TRUNK	1														
TYPE B CABLE	TRUNK		1													
TYPE C CABLE	BREAKOUT			1			2									
#6 SERVICE	SD-TM35.22									2			2		2	2
#4 SERVICE	SD-CC35.22											2	2	2		2
#2 SERVICE	XMFR					2										2
DLC	COUNT							5	11	11						
MULTI-CONDUCTOR CCTV CABLE											1	1				
INTERDUCT SIZE 1"		1	1	1	1											
PULL ROPE					1											
#12 AWG	TRACER WIRE	1														
CONDUIT SIZE		4"				2"	3"	3"	3"	2-3"	2"	2-3"	2"	2"	2"	2"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.



DETAIL "A"
PROPOSED
NO SCALE

DETAIL "A"
REMOVAL
NO SCALE

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

6-E-33

CALCULATED-DESIGNED BY	REVISED BY	EF	N/A	N/A
CHECKED BY	DATE REVISED	06-21-13	N/A	N/A
HUBURT KANG				
ALEX ZUPANSKI				

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 10:56:20 PM DATE PLOTTED => 7/2/2013

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Nicole
DGN FILE => 45710-S-TR-ITS03-6.dgn

CU 07242

EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	12-03-10
1	NDC 336 - UPDATE FOR LANDSLIDE AREA NEAR 1878	05-03-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 12-03-10 DATE

12-03-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTE:

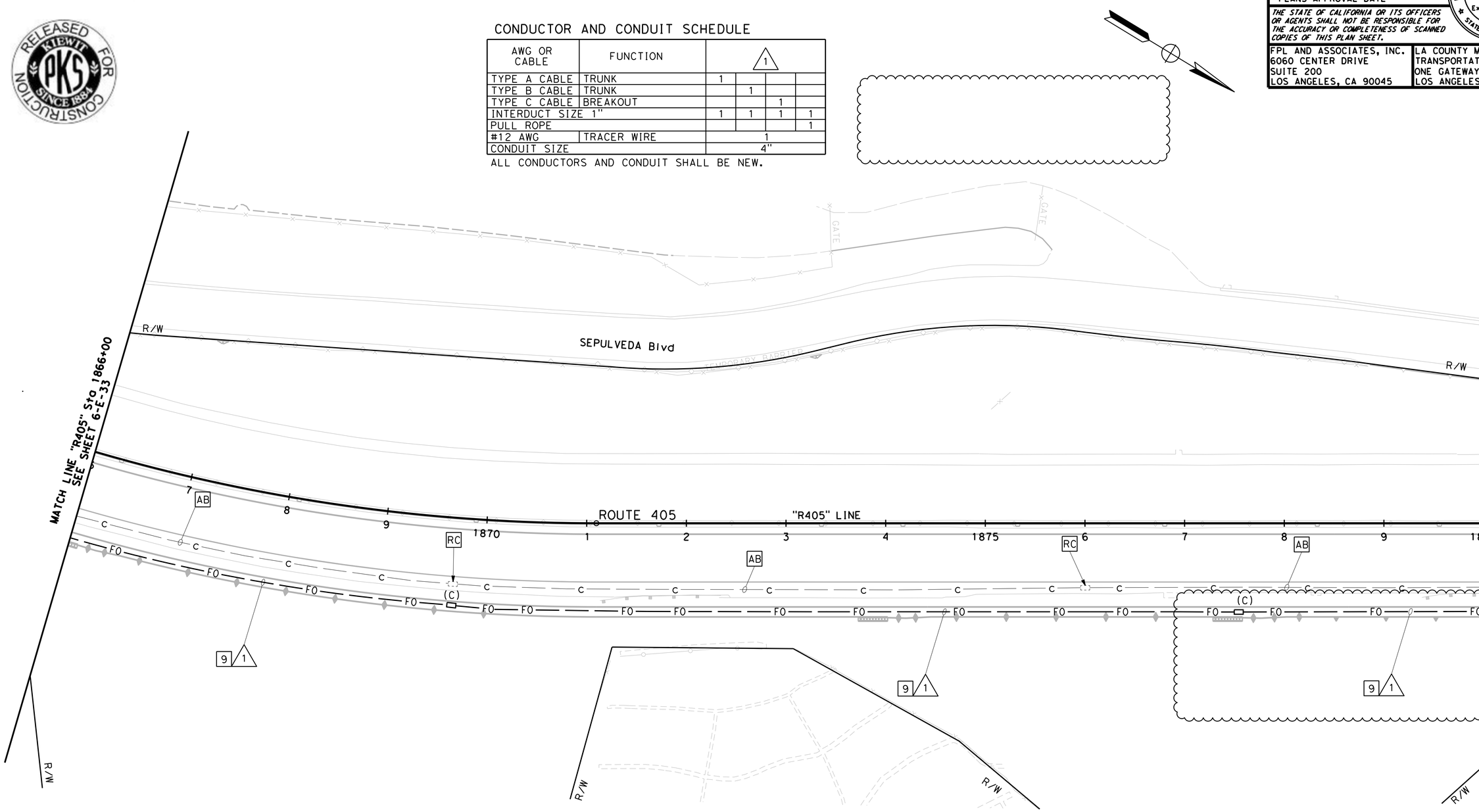
1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION KIEWIT PKS SINCE 1884

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1			
TYPE A CABLE	TRUNK	1			
TYPE B CABLE	TRUNK		1		
TYPE C CABLE	BREAKOUT			1	
INTERDUCT SIZE 1"		1	1	1	1
PULL ROPE					1
#12 AWG	TRACER WIRE	1			
CONDUIT SIZE		4"			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.



COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

6-E-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: HK
DATE REVISED: 05-03-12
N/A
N/A
N/A
N/A

LAST REVISION 00-00-00
TIME PLOTTED => 6:52:55 PM
DATE PLOTTED => 4/24/2012

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS03-6.dgn
CU 07242
EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	12-03-10
1	NDC 336 - UPDATE FOR LANDSLIDE AREA NEAR 1878	05-03-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 12-03-10 DATE

12-03-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

SHEET MODIFICATIONS:

1. FDC 0129 - INSTALL CONDUIT NB SIDE OF 405 INSTEAD OF SB
2. FDC 2151 - BEL AIR COMMUNICATION CONDUIT

CHANGES IN PROCESS:

1. NCR 0662 - HANGING CONDUIT

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

NOTE:

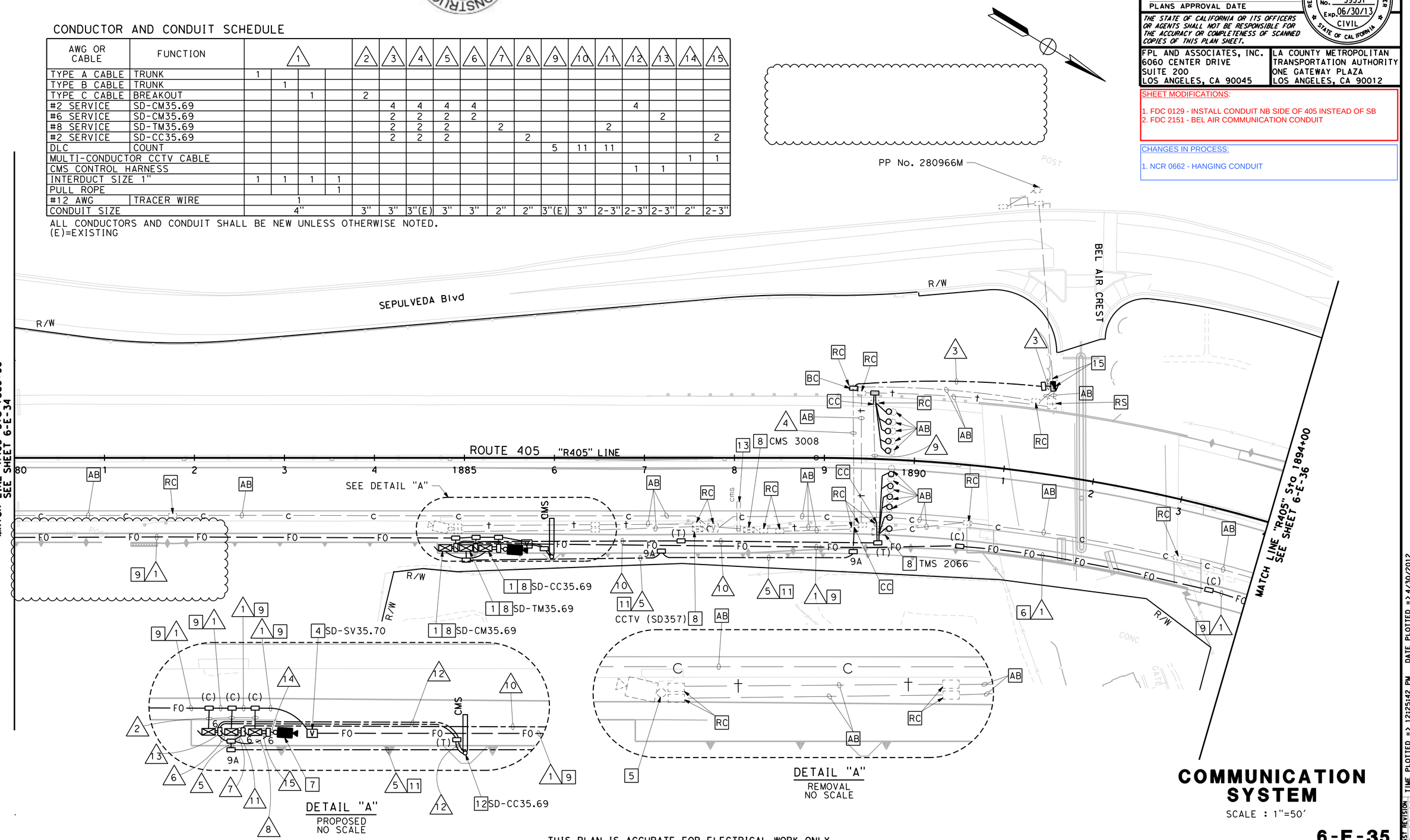
1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION KIEWIT PKS SINCE 1884

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6	7	8	9	10	11	12	13	14	15
TYPE A CABLE	TRUNK	1																	
TYPE B CABLE	TRUNK		1																
TYPE C CABLE	BREAKOUT			1		2													
#2 SERVICE	SD-CM35.69						4	4	4	4						4			
#6 SERVICE	SD-CM35.69						2	2	2	2							2		
#8 SERVICE	SD-TM35.69						2	2	2		2				2				
#2 SERVICE	SD-CC35.69						2	2	2			2							2
DLC	COUNT												5	11	11				
MULTI-CONDUCTOR CCTV CABLE																		1	1
CMS CONTROL HARNESS																1	1		
INTERDUCT SIZE 1"		1	1	1	1														
PULL ROPE					1														
#12 AWG	TRACER WIRE	1																	
CONDUIT SIZE		4"				3"	3"	3"(E)	3"	3"	2"	2"	3"(E)	3"	2-3"	2-3"	2-3"	2"	2-3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E)=EXISTING



COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

6-E-35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: HK
DATE REVISED: 05-03-12
N/A
N/A
N/A
N/A

LAST REVISION 00-00-00
TIME PLOTTED => 12:25:42 PM
DATE PLOTTED => 4/30/2012

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS03-6.dgn
CU 07242
EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	12-03-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 12-03-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

12-03-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTE:

1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	△1			
TYPE A CABLE	TRUNK	1			
TYPE B CABLE	TRUNK		1		
TYPE C CABLE	BREAKOUT			1	
INTERDUCT SIZE 1"		1	1	1	1
PULL ROPE					1
#12 AWG	TRACER WIRE	1			
CONDUIT SIZE		4"			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

6-E-36

CALCULATED-DESIGNED BY	N/A
CHECKED BY	N/A
HUBURT KANG	N/A
ALEX ZUPANSKI	N/A
REVISED BY	N/A
DATE REVISED	N/A

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => 5:47:31 PM — DATE PLOTTED => 12/10/2010

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS03-6.dgn

CU 07242

EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	12-03-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 12-03-10 DATE

12-03-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTE:

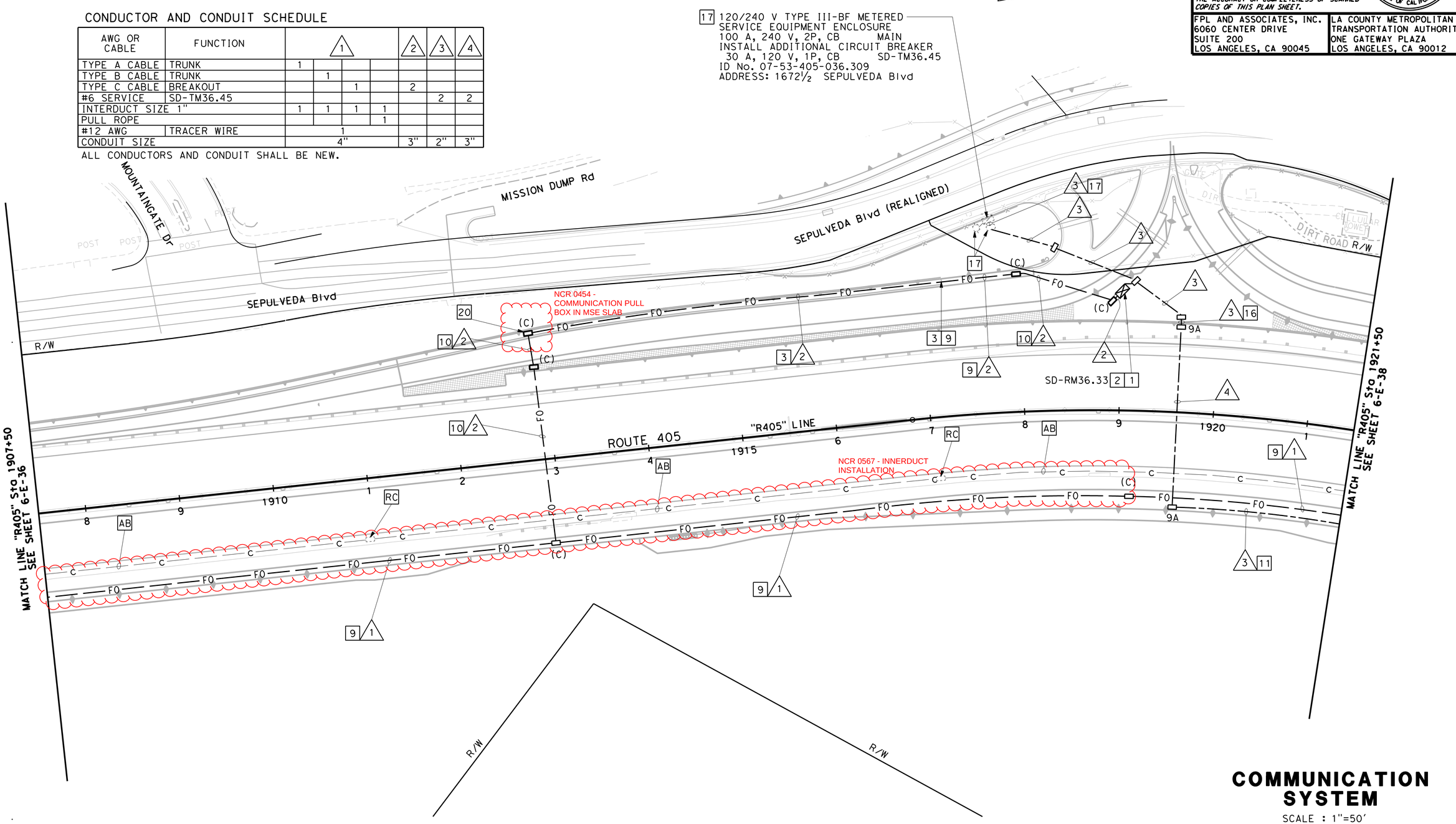
1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION KIEWIT PKS SINCE 1884

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4
TYPE A CABLE	TRUNK	1						
TYPE B CABLE	TRUNK		1					
TYPE C CABLE	BREAKOUT			1		2		
#6 SERVICE	SD-TM36.45						2	2
INTERDUCT SIZE 1"		1	1	1	1			
PULL ROPE					1			
#12 AWG	TRACER WIRE	1						
CONDUIT SIZE		4"				3"	2"	3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.



COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

6-E-37

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: N/A
DATE REVISED: N/A

LAST REVISION 00-00-00 TIME PLOTTED => 3:57:30 PM DATE PLOTTED => 12/14/2010

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => Huburt Kang DGN FILE => 45710-S-TR-ITS03-6.dgn | CU 07242 | EA 120301

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

NOTE:

1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

SHEET MODIFICATIONS:

1. NCR 0567 - INNERDUCT INSTALLATION - RECORDING PULLING TENSION
2. FDC 1923 - PROPOSED PULL BOX
3. FDC 1955 - CONDUIT REROUTE FROM BARRIER
4. NDC 0482 - ON OFF RAMP NAMING
5. FDC 1973 - ELIMINATE LIGHT POLE GRADING

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-11-10
1	REVISED FOR AREA 6 RELEASE	12-03-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 11-11-10 DATE

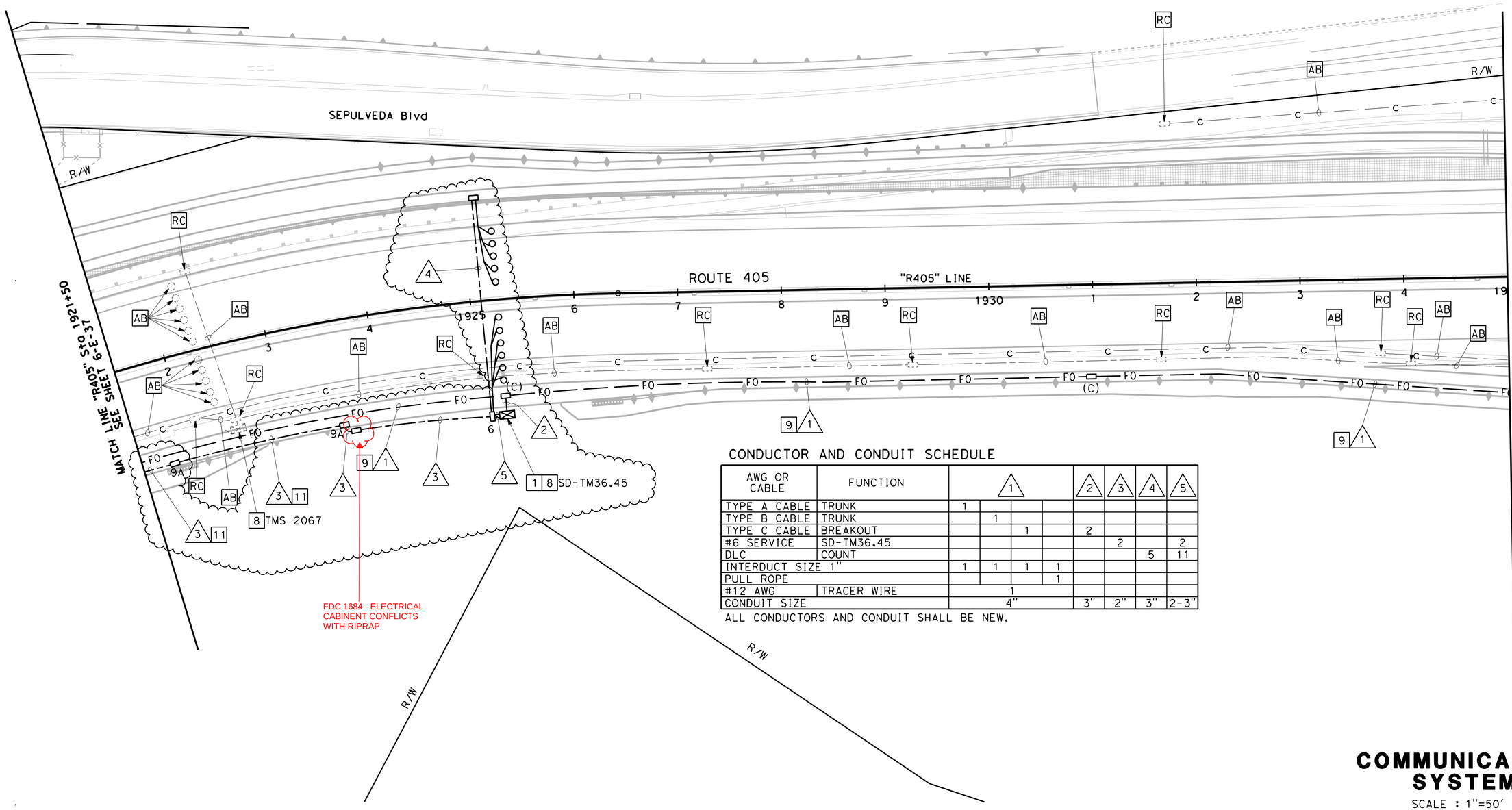
11-11-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5
TYPE A CABLE	TRUNK	1							
TYPE B CABLE	TRUNK		1						
TYPE C CABLE	BREAKOUT			1		2			
#6 SERVICE	SD-TM36.45						2		2
DLC	COUNT							5	11
INTERDUCT SIZE 1"		1	1	1	1				
PULL ROPE					1				
#12 AWG	TRACER WIRE	1							
CONDUIT SIZE		4"				3"	2"	3"	2-3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

6-E-38

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

CALCULATED-DESIGNED BY: HUBURT KANG — CHECKED BY: ALEX ZUPANSKI

REVISED BY: HK — DATE REVISED: 12-03-10

N/A — N/A — N/A — N/A

LAST REVISION 00-00-00 — TIME PLOTTED => 5:47:39 PM — DATE PLOTTED => 12/10/2010

BORDER LAST REVISED 4/11/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => Huburt Kang — DGN FILE => 45710-S-TR-ITS03-6.dgn — CU 07242 — EA 120301

REVISION	DESCRIPTION	DATE
2	NDC 234: REVISE "SBAL3" ALIGNMENT	01-05-12
	NDC 482: AS-BUILT CHANGES	06-20-13
3	NDC 489: NB SKIRBALL ON-RAMPS	01-24-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — 11-11-10 DATE

11-11-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/15 — CIVIL — STATE OF CALIFORNIA

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

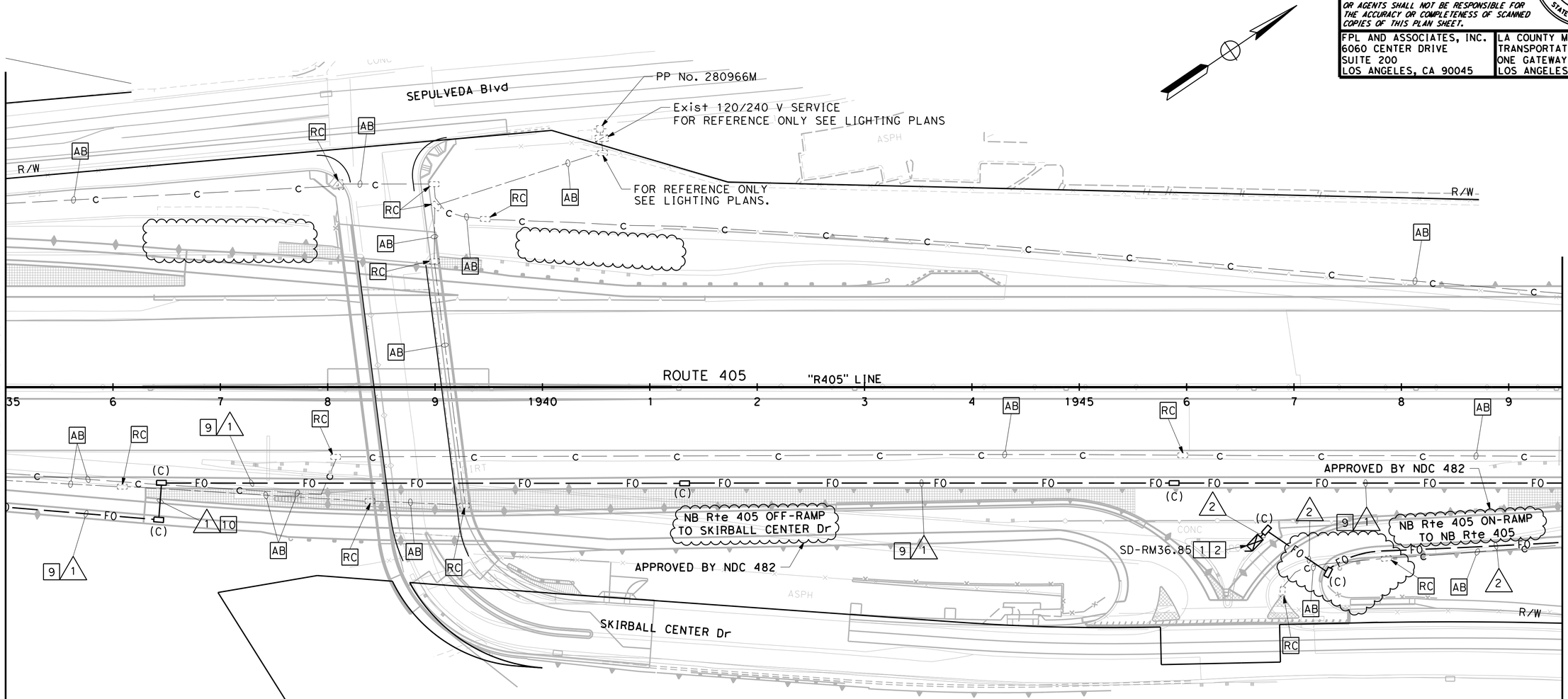
LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTE:

1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	△1				△2
TYPE A CABLE	TRUNK	1				
TYPE B CABLE	TRUNK		1			
TYPE C CABLE	BREAKOUT			1		2
INTERDUCT SIZE 1"		1	1	1	1	
PULL ROPE					1	
#12 AWG	TRACER WIRE	1				
CONDUIT SIZE		4"				3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

COMMUNICATION SYSTEM

SCALE : 1"=50'

6-E-39

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

	REVISED BY	DATE REVISED
EF	HK	01-24-14
EF		06-20-13
		01-05-12

CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | TIME PLOTTED => 5:57:46 PM | DATE PLOTTED => 1/24/2014

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Alex
DGN FILE => 45710-S-TR-ITS03-6.dgn

CU 07242

EA 120301

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

NOTE:

1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

SHEET MODIFICATIONS:

1. NDC 0482 - ON OFF RAMP NAMING

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-11-10
1	REVISED FOR AREA 6 RELEASE	12-03-10
2	NDC 234: REVISED "SBAL3" ALIGNMENT	01-05-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 11-11-10

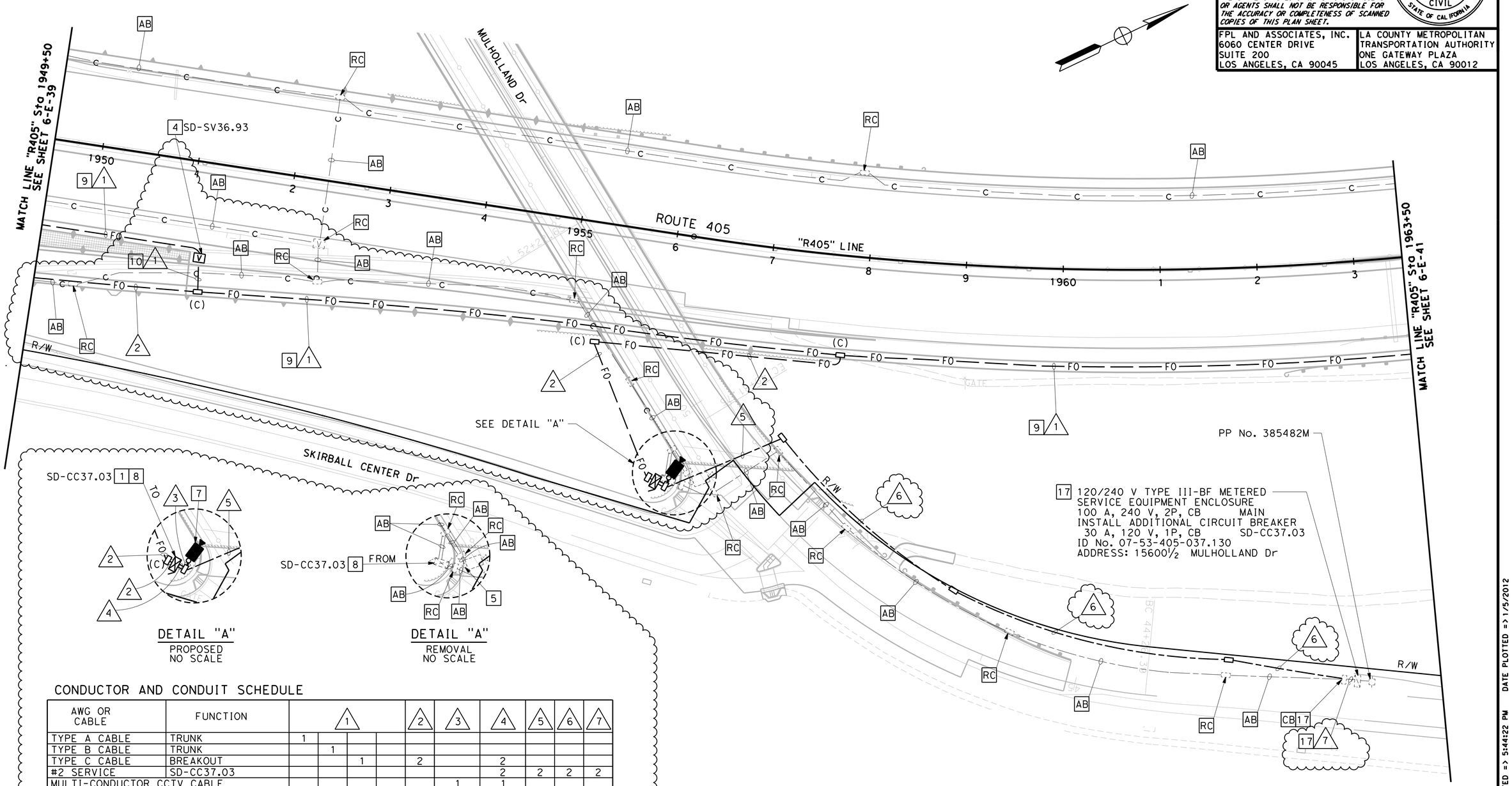
ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

11-11-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012



DETAIL "A"
PROPOSED
NO SCALE

DETAIL "A"
REMOVAL
NO SCALE

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6	7
TYPE A CABLE	TRUNK	1									
TYPE B CABLE	TRUNK		1								
TYPE C CABLE	BREAKOUT			1		2		2			
#2 SERVICE	SD-CC37.03							2	2	2	2
MULTI-CONDUCTOR CCTV CABLE							1	1			
INTERDUCT SIZE 1"		1	1	1	1						
PULL ROPE					1						
#12 AWG	TRACER WIRE	1									
CONDUIT SIZE		4"				3"	2-2"	2-3"	3"	2"	3"(E)

ALL CONDUCTORS AND CONDUIT SHALL BE NEW, UNLESS OTHERWISE NOTED.
(E) = EXISTING

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

6-E-40

	N/A	N/A
	HK	01-05-12
REVISED BY	HK	12-03-10
DATE REVISED		
CALCULATED-DESIGNED BY	HUBURT KANG	
CHECKED BY	ALEX ZUPANSKI	
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 5:44:22 PM DATE PLOTTED => 1/5/2012

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

NOTE:

1. SEE SHEET 6-E-31 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1934

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	11-11-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 11-11-10

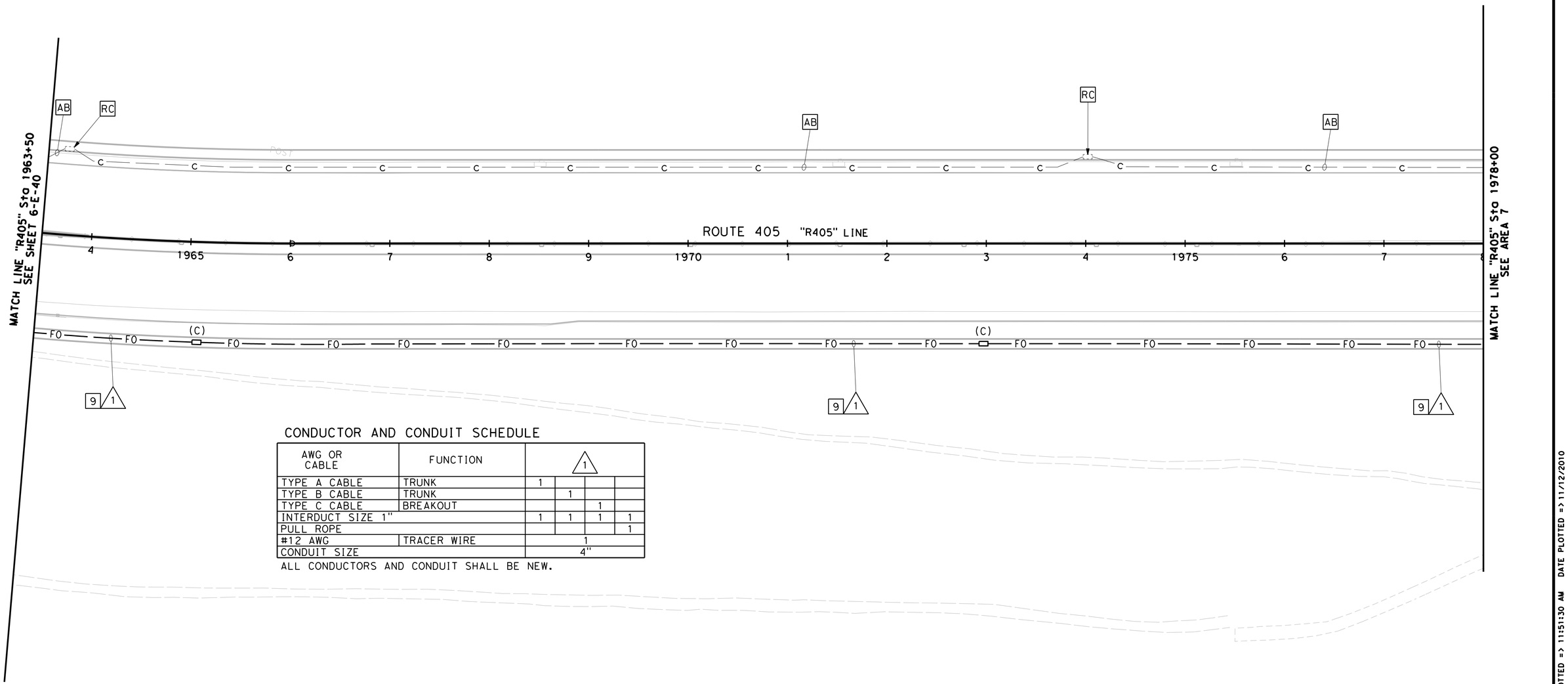
ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

11-11-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1			
TYPE A CABLE	TRUNK	1			
TYPE B CABLE	TRUNK		1		
TYPE C CABLE	BREAKOUT			1	
INTERDUCT SIZE 1"		1	1	1	1
PULL ROPE					1
#12 AWG	TRACER WIRE	1			
CONDUIT SIZE		4"			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW.

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

6-E-41

CALCULATED-DESIGNED BY	N/A
CHECKED BY	N/A
REVISED BY	N/A
DATE REVISED	N/A

HUBURT KANG — ALEX ZUPANSKI

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 11:51:30 AM DATE PLOTTED => 11/12/2010

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS03-6.dgn

CU 07242

EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-27-10
1	NDC 200: "VV1" RAMP REDESIGN	05-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 07-27-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

07-27-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

SHEET MODIFICATIONS:

1. FDC 1878 - CCTV POLE RELOCATION

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

GENERAL NOTES: (SHEETS 7-E-14 TO 7-E-22)

1. THE LOCATIONS OF EXISTING ELECTRICAL FACILITIES SUCH AS UNDERGROUND CONDUITS, PULL BOXES, SPLICE VAULTS, AND CONTROLLER CABINETS ARE APPROXIMATE.
2. ALL FIBER OPTIC CONDUIT BENDS SHALL BE 4 ft RADIUS MINIMUM, AND SHALL BE FACTORY BENDS. ALL OTHER CONDUITS SHALL HAVE A MINIMUM BEND RADIUS OF NO LESS THAN 6 TIMES THE CONDUIT DIAMETER.
3. NEW ELECTRICAL EQUIPMENT LOCATIONS SHOWN ON THE PLANS, INCLUDING PULL BOXES AND CONDUIT, ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS.
4. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, SERVICE EQUIPMENT ENCLOSURES, POWER POLES, AND TELEPHONE DEMARCATION BOXES ARE APPROXIMATE.
5. FOR COMMUNICATION SYSTEM DETAILS SEE SHEETS 7-E-21 TO 7-E-22 AND DETAIL SHEETS ED-10 TO ED-19, DETAIL "B" ON ED-21 AND ED-23. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLAN FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.
6. CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS WHICH SHALL RUN CONTINUOUSLY IN ALL NEW AND AFFECTED CIRCUITS. SEE SECTION 86-2.10 OF THE CALTRANS STANDARD SPECIFICATIONS FOR BONDING AND GROUNDING REQUIREMENTS.

PROJECT NOTES: (SHEETS 7-E-14 TO 7-E-20)

1. PROPOSED ETHERNET COMMUNICATION EQUIPMENT AND CONNECTION DETAILS TO BE PROVIDED IN CORRIDOR WIDE FIBER SPLICING DETAILS PLANS.
2. FOR REFERENCE ONLY, SEE RAMP METERING PLANS.
3. INSTALL CONDUIT UNDER MSE SLAB. SEE DETAILS SHEET ED-13.
4. INSTALL SPLICE VAULT AND SPLICE CLOSURES FOR FIBER OPTIC SPLICING. SEE DETAILS SHEET ED-15 FOR DETAILS. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLAN.
5. [RS] EXISTING CCTV POLE AND CAMERA ASSEMBLY. [RC] EXISTING FOUNDATION.
6. INSTALL CONDUIT IN BRIDGE DECK. SEE STRUCTURE PLANS FOR DETAILS.
7. INSTALL NEW CCTV TYPE 25 POLE, CAMERA ASSEMBLY AND NEW FOUNDATION. SEE DETAILS SHEET ED-18 FOR DETAILS.
8. [RL] EXISTING CABINET AND EQUIPMENT ON NEW FOUNDATION.
   [RC] EXISTING FOUNDATION.
9. TRENCH AND INSTALL CONDUIT IN ASPHALT OR CONCRETE. SEE DETAIL SHEETS ED-10, ED-11 AND ED-12 FOR DETAILS.
10. JACK CONDUIT UNDER ROADWAY AS INDICATED, SEE SHEET ED-14 FOR DETAILS.
11. INSTALL CONDUIT IN CONCRETE BARRIER. SEE STRUCTURE PLANS.
12. INSTALL NEW 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH
    100 A, 240 V, 2P, CB MAIN
    30 A, 120 V, 1P, CB TMS
    ID No. 07-53-405-R-038.164
    ADDRESS: 15519 WOODCREST Dr
    ON NEW FOUNDATION.
    INSTALL SERVICE CABINET ENCLOSURE AT EXISTING LOCATION.
13. INSTALL CONDUIT BEHIND MSE WALL. SEE DETAILS SHEET ED-13.
14. PROTECT IN-PLACE EXISTING EQUIPMENT. SEE COMMUNICATION SYSTEM DETAILS FOR FIBER OPTIC CONFIGURATION. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLAN FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.
15. INSTALL NEW ETHERNET COMMUNICATION NODE 334 CABINET ENCLOSURE WITH NEW EQUIPMENT. SEE CORRIDOR WIDE FIBER SPLICING DETAILS PLAN FOR FIBER SPLICING AND EQUIPMENT CONNECTION DETAILS.
16. REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS AS INDICATED.
17. CONTRACTOR TO ABANDON ONE OF TWO EXISTING COMMUNICATION 4" CONDUIT.
18. INSTALL PULL BOX IN MSE SLAB. LABEL PULL BOX COVER WITH APPROPRIATE MARK. SEE DETAILS SHEET ED-23 AND WALL PLANS FOR DETAILS.

LEGEND: (SHEETS 7-E-14 TO 7-E-22)

[V] SPLICE VAULT

[V] Exist SPLICE VAULT

ABBREVIATION: (SHEETS 7-E-14 TO 7-E-22)

F/O OR FO	FIBER OPTIC CABLE
SMFO	SINGLEMODE FIBER OPTIC CABLE
TYPE A CABLE	72 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE B CABLE	48 SINGLEMODE FIBER OPTIC CABLE (TRUNK)
TYPE C CABLE	12 SINGLEMODE FIBER OPTIC CABLE (BREAKOUT)
SD	SAN DIEGO
TM	TMS
CC	CCTV
SV	SPLICE VAULT
CM	CMS
TWP	TWISTED WIRE PAIR
OTU	OPTICAL TRANSMISSION UNIT

COMMUNICATION SYSTEM

NO SCALE

7-E-13

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

	REVISED BY	HK	HK	HK
	DATE REVISED	05-18-12	N/A	N/A
CALCULATED-DESIGNED BY	HUBURT KANG			
CHECKED BY	ALEX ZUPANSKI			
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 00-00-00 — TIME PLOTTED => 7:39:02 PM — DATE PLOTTED => 5/11/2012

BORDER LAST REVISED 4/11/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => Alex — DGN FILE => 45710-S-TR-ITS03-7.dgn — CU 07242 — EA 120301

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

NOTES:

1. SEE SHEET 7-E-13 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION KIEWIT PKS SINCE 1854

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-27-10
1	NDC 171: REDESIGN RAMP "VV3" DUE TO ADDITIONAL CAPACITY	07-27-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 07-27-10

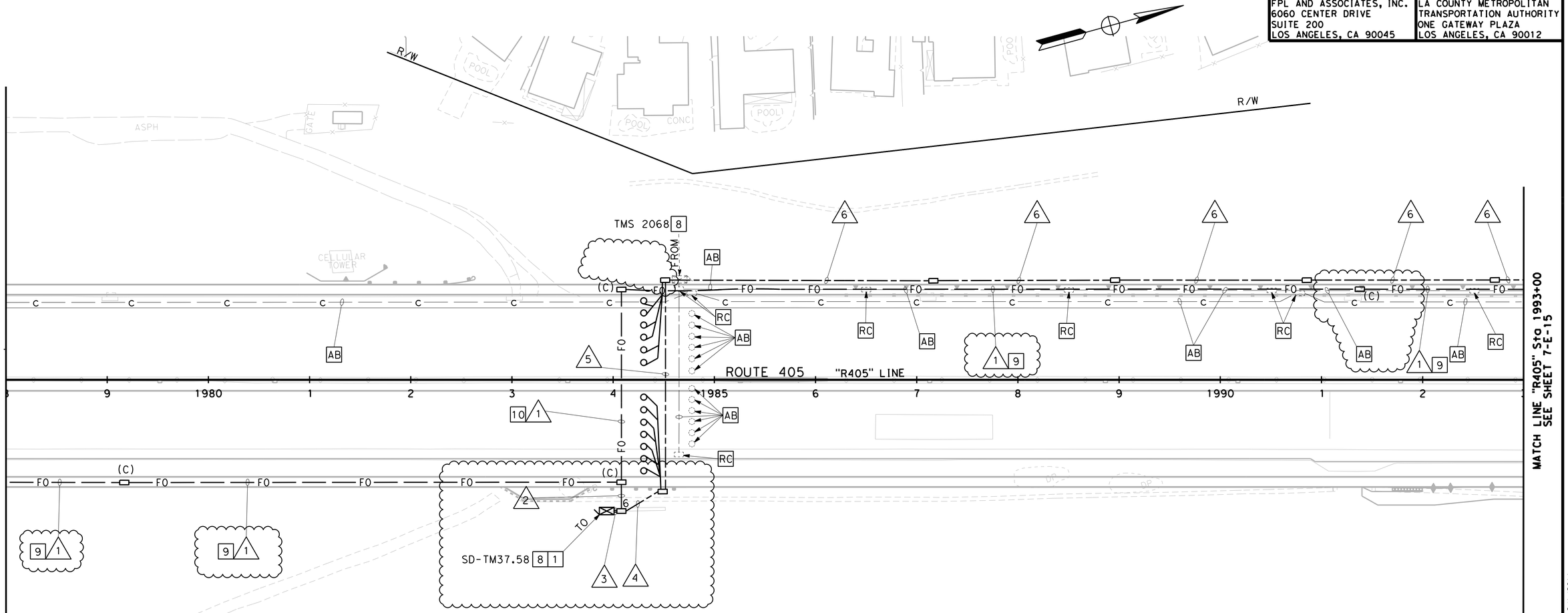
REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/13 — CIVIL — STATE OF CALIFORNIA

07-27-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6
TYPE A CABLE	TRUNK	1								
TYPE B CABLE	TRUNK		1							
TYPE C CABLE	BREAKOUT			1		2	2			
#4	SD-TM37.58 SERVICE						2	2	2	2
DLC	COUNT						13	13	6	
INTERDUCT SIZE 1"		1	1	1	1					
PULL ROPE					1					
#12 AWG	TRACER WIRE	1								
CONDUIT SIZE		4"				3"	2-3"	3"	3"	2"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

7-E-14

	REVISED BY	HUBURT KANG	N/A	N/A
	DATE REVISED	ALEX ZUPANSKI	N/A	N/A
	HK	CALCULATED-DESIGNED BY	N/A	N/A
	07-27-11	CHECKED BY	N/A	N/A

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 00-00-00 TIME PLOTTED => 10:55:05 AM DATE PLOTTED => 6/1/2011

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS03-7.dgn

CU 07242

EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-27-10
1	NDC 171: REDESIGN RAMP "VV3" DUE TO ADDITIONAL CAPACITY	07-27-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 07-27-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

07-27-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

SHEET MODIFICATIONS:

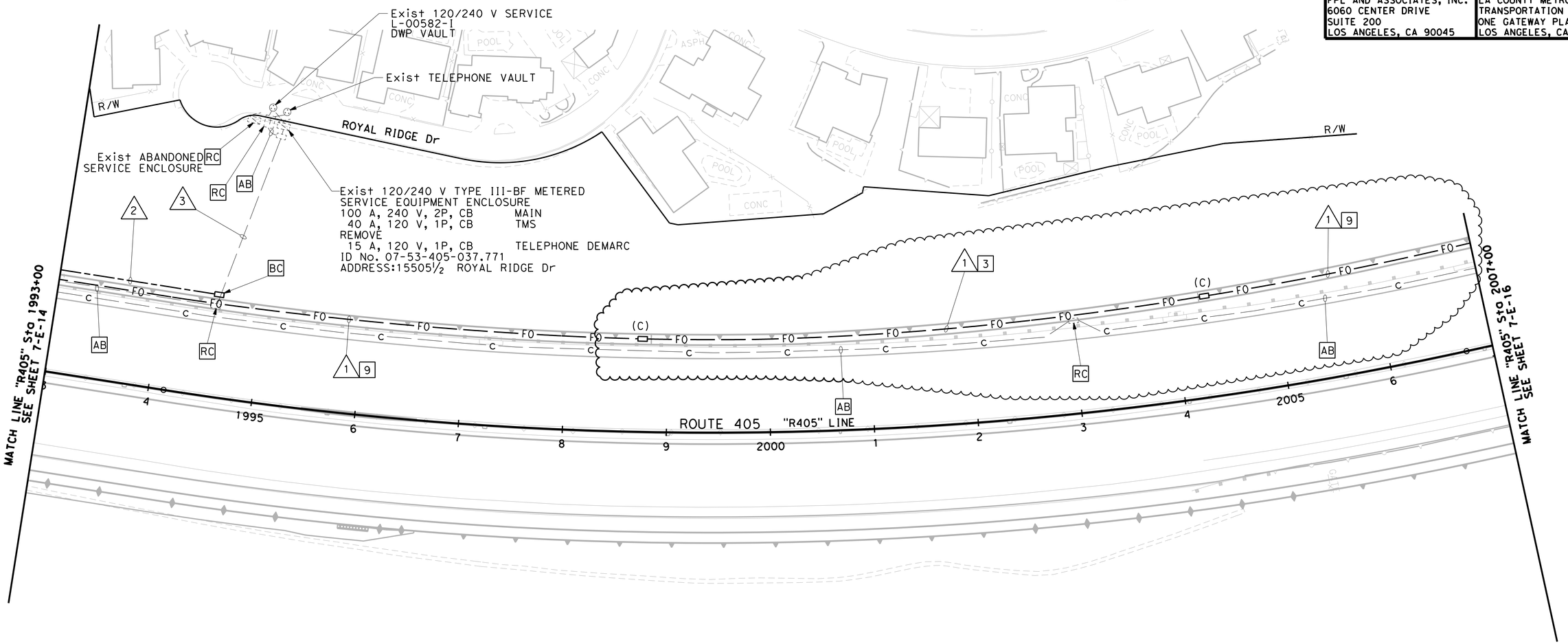
1. NDC 0471 - REVISED ITS PLAN PER CALTRANS DEFERRED COMMENTS

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

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

NOTES:

1. SEE SHEET 7-E-13 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3
TYPE A CABLE	TRUNK	1					
TYPE B CABLE	TRUNK		1				
TYPE C CABLE	BREAKOUT			1			
#4	SD-TM37.58 SERVICE					2	2
DLC	COUNT						
INTERDUCT SIZE 1"		1	1	1	1		
PULL ROPE					1		
#12 AWG	TRACER WIRE	1					
CONDUIT SIZE		4"				2"	2"(E)

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E)=EXISTING

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

7-E-15

CALCULATED-DESIGNED BY	N/A		
CHECKED BY	N/A		
REVISED BY	HK	07-27-11	
DATE REVISED	N/A		
HUBURT KANG	ALEX ZUPANSKI		
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans		

LAST REVISION 00-00-00 TIME PLOTTED => 10:55:43 AM DATE PLOTTED => 6/1/2011

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => Huburt Kang | DGN FILE => 45710-S-TR-ITS03-7.dgn | CU 07242 | EA 120301

SHEET MODIFICATIONS:

1. NDC 0471 - REVISED ITS PLAN PER CALTRANS DEFERRED COMMENTS
2. NDC 0482 - ON OFF RAMP NAMING

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-27-10
1	NDC 171: REDESIGN RAMP "VV3" DUE TO ADDITIONAL CAPACITY	07-27-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER 07-27-10 DATE

07-27-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

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

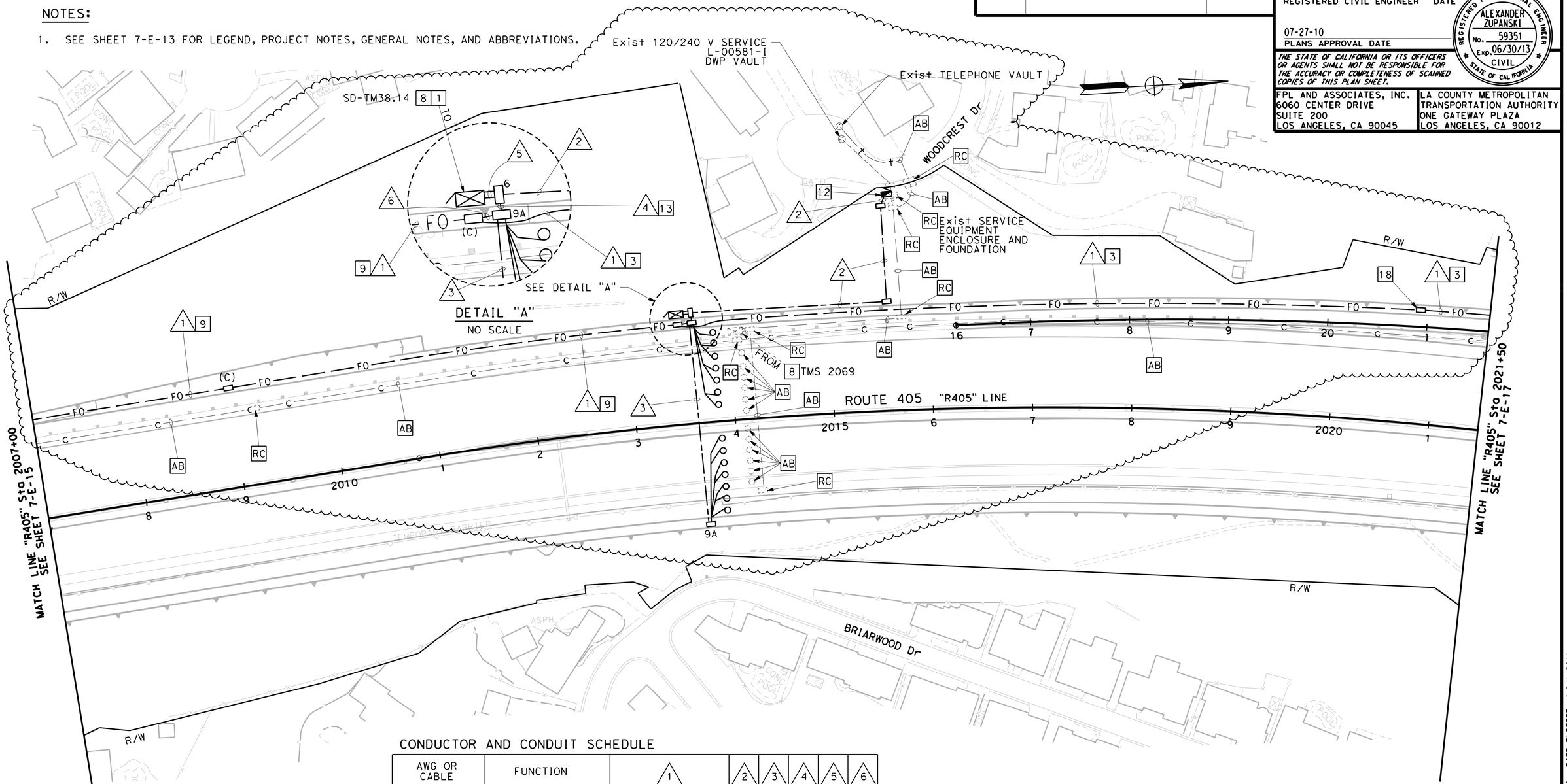
FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

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

NOTES:

1. SEE SHEET 7-E-13 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6
TYPE A CABLE	TRUNK	1								
TYPE B CABLE	TRUNK		1							
TYPE C CABLE	BREAKOUT			1				2	2	2
#6	SD-TM38.14					2				
DLC	COUNT						7	14	14	
INTERDUCT SIZE 1"		1	1	1	1					
PULL ROPE					1					
#12 AWG	TRACER WIRE	1								
CONDUIT SIZE		4"				2"	3"	3"	2-3"	3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.

RELEASED FOR CONSTRUCTION KIEWIT PKS SINCE 1884

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

7-E-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
REVISED BY: HK
DATE REVISED: 07-27-11
N/A
N/A
N/A
N/A

LAST REVISION 00-00-00 TIME PLOTTED => 10:56:20 AM DATE PLOTTED => 6/1/2011

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS03-7.dgn

CU 07242

EA 120301

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

NOTES:

1. SEE SHEET 7-E-13 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3	4	5	6
TYPE A CABLE	TRUNK	1								
TYPE B CABLE	TRUNK		1							
TYPE C CABLE	BREAKOUT			1		2				
#4	SD-CC38.41 SERVICE						2		2	2
CCTV MULTI-CONDUCTOR CABLE							1	1		1
INTERDUCT SIZE 1"		1	1	1	1					
PULL ROPE					1					
#12 AWG	TRACER WIRE			1						
CONDUIT SIZE				4"		3"	2-3"	2"	2"	3"

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-27-10
1	NDC 171: REDESIGN RAMP "VV3" DUE TO ADDITIONAL CAPACITY	07-27-11
2	NDC 223: ADDITION OF BMP 5	07-20-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 07-27-10

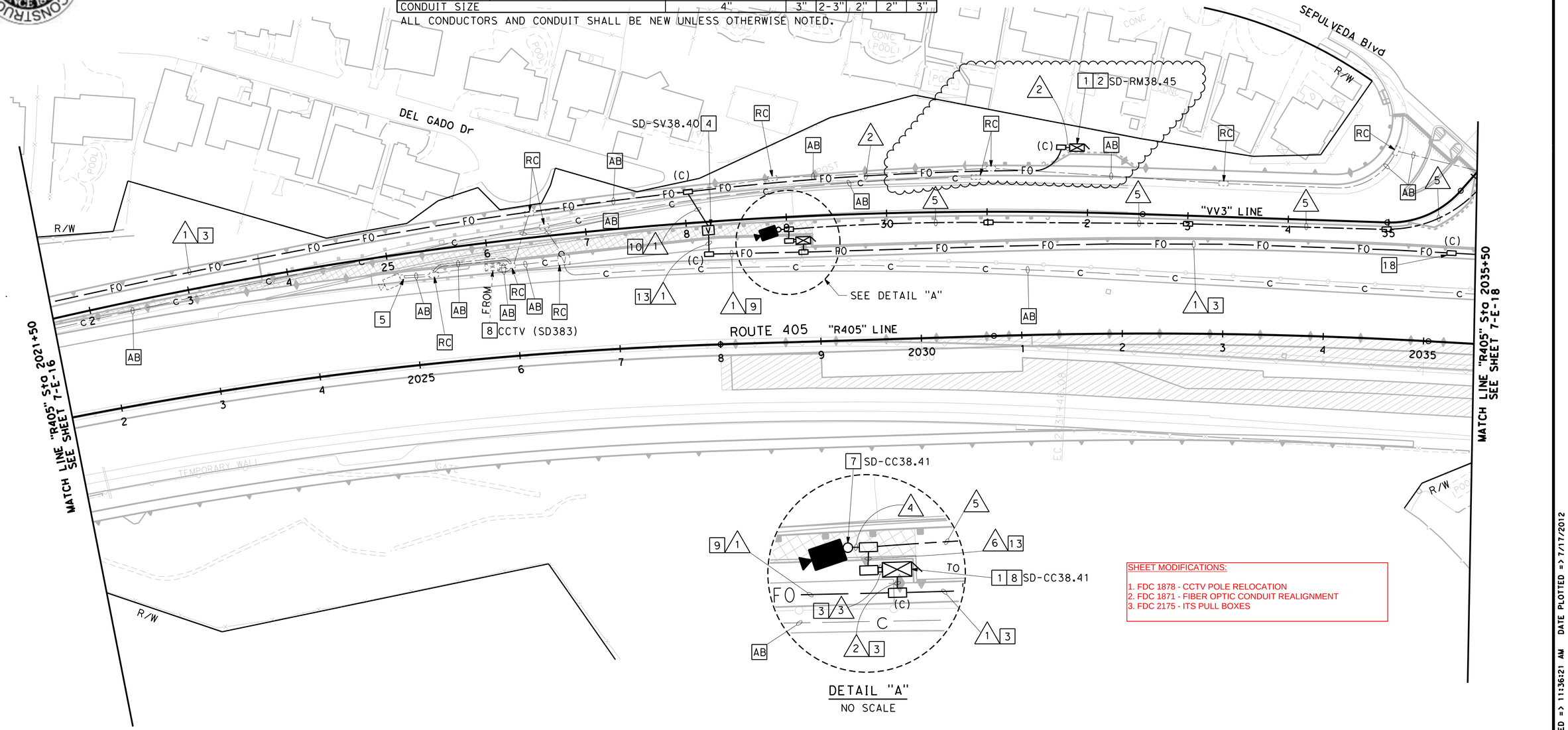
REGISTERED PROFESSIONAL ENGINEER — ALEXANDER ZUPANSKI — No. 59351 — Exp. 06/30/13 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE 07-27-10

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012



DETAIL "A"
NO SCALE

SHEET MODIFICATIONS:

1. FDC 1878 - CCTV POLE RELOCATION
2. FDC 1871 - FIBER OPTIC CONDUIT REALIGNMENT
3. FDC 2175 - ITS PULL BOXES

COMMUNICATION SYSTEM

SCALE : 1"=50'

7-E-17

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

N/A	N/A		
HK	07-20-12		
HK	07-27-11		
REVISED BY	DATE REVISED		
HUBURT KANG			
CALCULATED-DESIGNED BY			
ALEX ZUPANSKI			
CHECKED BY			
BRIAN BURKHARD			
CONSULTANT FUNCTIONAL SUPERVISOR			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			
Caltrans			

LAST REVISION 00-00-00 TIME PLOTTED => 11:36:21 AM DATE PLOTTED => 7/17/2012

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => Huburt Kang
DGN FILE => 45710-S-TR-ITS03-7.dgn

CU 07242

EA 120301

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

NOTES:

1. SEE SHEET 7-E-13 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

RELEASED FOR CONSTRUCTION
K T E W T PKS SINCE 1984

SHEET MODIFICATIONS:

1. FDC 1436 - VV SB OFF RAMP ADDITIONAL ITS BENDS

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-27-10
1	NDC 171: REDESIGN RAMP "VV3" DUE TO ADDITIONAL CAPACITY	07-27-11
2	NDC 200: "VV1" RAMP REDESIGN	05-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 07-27-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

07-27-10
PLANS APPROVAL DATE

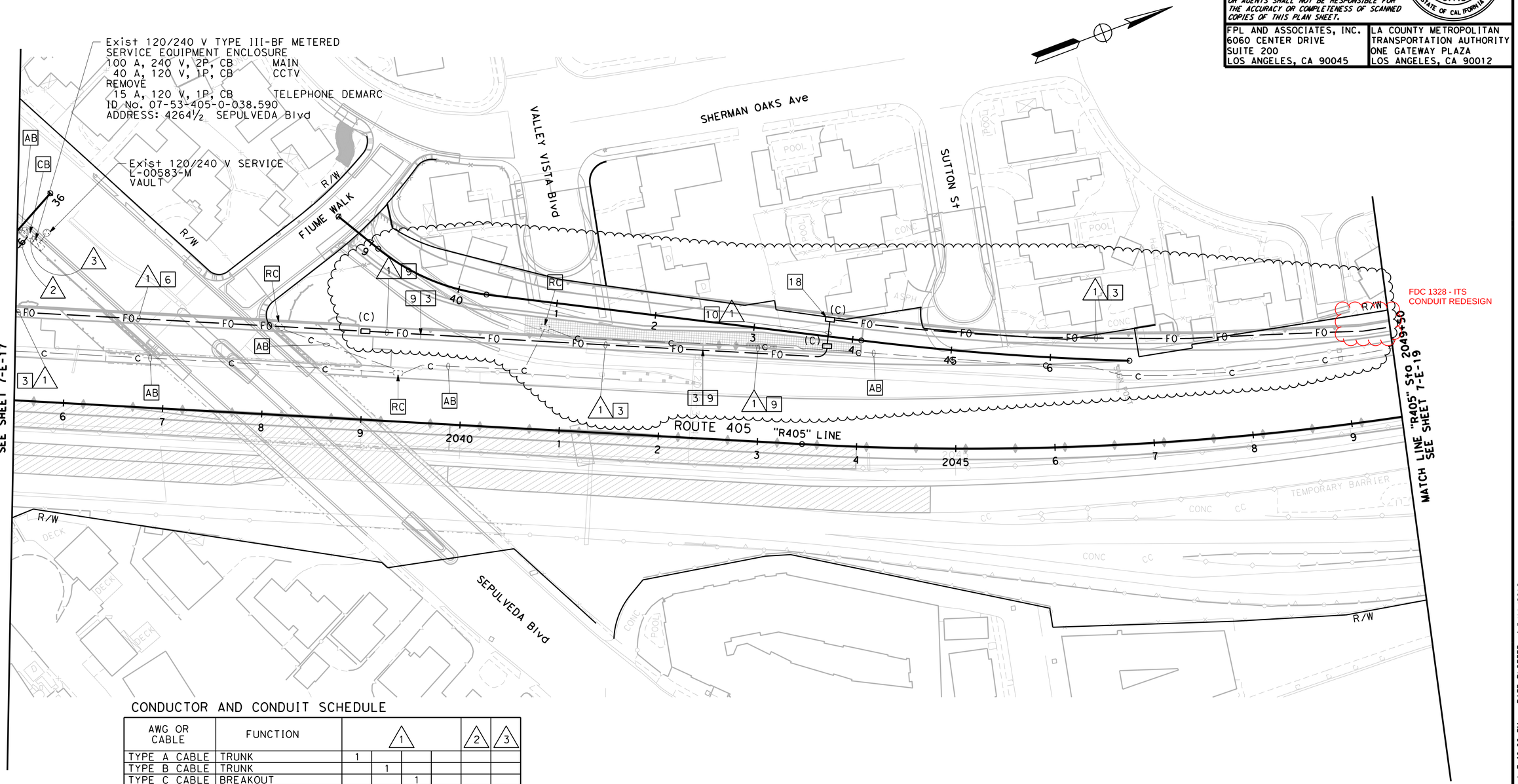
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

Exist 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE
100 A, 240 V, 2P, CB — MAIN
40 A, 120 V, 1P, CB — CCTV
REMOVE
15 A, 120 V, 1P, CB — TELEPHONE DEMARC
ID No. 07-53-405-0-038.590
ADDRESS: 4264½ SEPULVEDA Blvd

Exist 120/240 V SERVICE L-00583-M VAULT



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2	3
TYPE A CABLE	TRUNK	1					
TYPE B CABLE	TRUNK		1				
TYPE C CABLE	BREAKOUT			1			
#4	SD-CC38.41 SERVICE					2	2
INTERDUCT SIZE 1"		1	1	1	1		
PULL ROPE					1		
#12 AWG	TRACER WIRE	1					
CONDUIT SIZE		4"				2"	2"(E)

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E)=EXISTING

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

7-E-18

	REVISED BY	DATE REVISED
0	N/A	N/A
1	HK	05-18-12
2	HK	07-27-11

CALCULATED-DESIGNED BY: HUBURT KANG
CHECKED BY: ALEX ZUPANSKI
CONSULTANT FUNCTIONAL SUPERVISOR: BRIAN BURKHARD
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 TIME PLOTTED => 7:40:06 PM DATE PLOTTED => 5/11/2012

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => Alex | DGN FILE => 45710-S-TR-ITS03-7.dgn | CU 07242 | EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	07-27-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 07-27-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

07-27-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

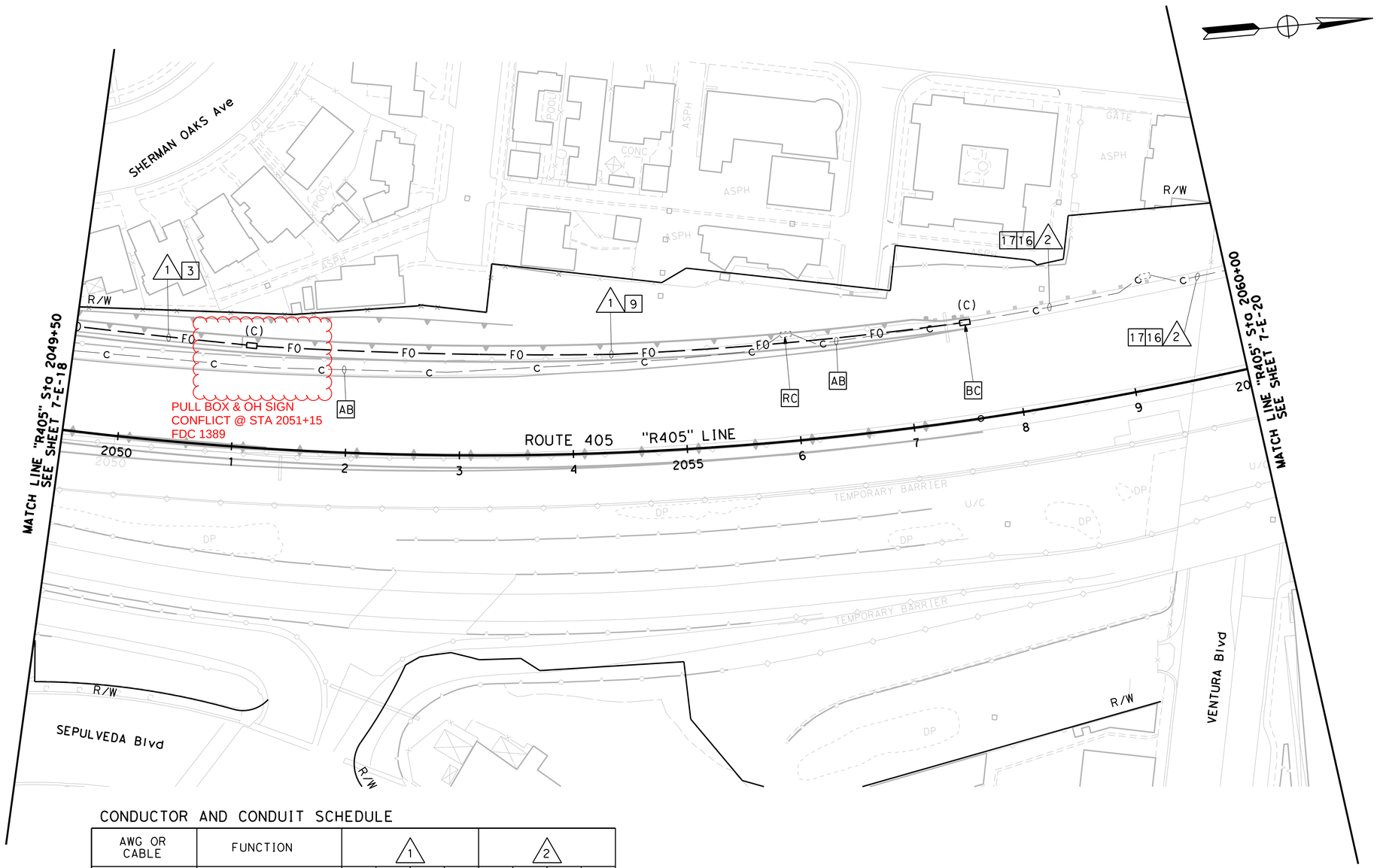
LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

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

NOTES:

1. SEE SHEET 7-E-13 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.



CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2			
TYPE A CABLE	TRUNK	1				1			
TYPE B CABLE	TRUNK		1				1		
TYPE C CABLE	BREAKOUT			1				1	
INTERDUCT SIZE 1"		1	1	1	1	1	1	1	1
PULL ROPE					1				1
#12 AWG	TRACER WIRE	1				1			
CONDUIT SIZE		4"				4"(E)			

ALL CONDUCTORS AND CONDUIT SHALL BE NEW UNLESS OTHERWISE NOTED.
(E)=EXISTING

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

COMMUNICATION SYSTEM

SCALE : 1"=50'

7-E-19

CALCULATED-DESIGNED BY	HUBURT KANG
CHECKED BY	ALEX ZUPANSKI
REVISED BY	N/A
DATE REVISED	N/A
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans

LAST REVISION 00-00-00 | TIME PLOTTED => 5:36:43 PM | DATE PLOTTED => 8/17/2010

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => Huburt Kang | DGN FILE => 45710-S-TR-ITS03-7.dgn | CU 07242 | EA 120301

REVISION	DESCRIPTION	DATE
0	APPROVED FOR CONSTRUCTION	05-27-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	29.1/39.0		

REGISTERED CIVIL ENGINEER — DATE 05-27-10

ALEXANDER ZUPANSKI No. 59351 Exp. 06/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

05-27-10
PLANS APPROVAL DATE

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

FPL AND ASSOCIATES, INC.
6060 CENTER DRIVE
SUITE 200
LOS ANGELES, CA 90045

LA COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
ONE GATEWAY PLAZA
LOS ANGELES, CA 90012

RELEASED FOR CONSTRUCTION — KIEWIT PKS SINCE 1884

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

EXISTING 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE
100 A, 240 V, 2P, CB — MAIN
30 A, 120 V, 1P, CB — CCTV
30 A, 120 V, 1P, CB — DATA NODE

INSTALL ADDITIONAL
30 A, 120 V, 1P, CB — ETHERNET NODE
ID No. 07-53-405-0-039.049
ADDRESS: 15438½ VENTURA Blvd

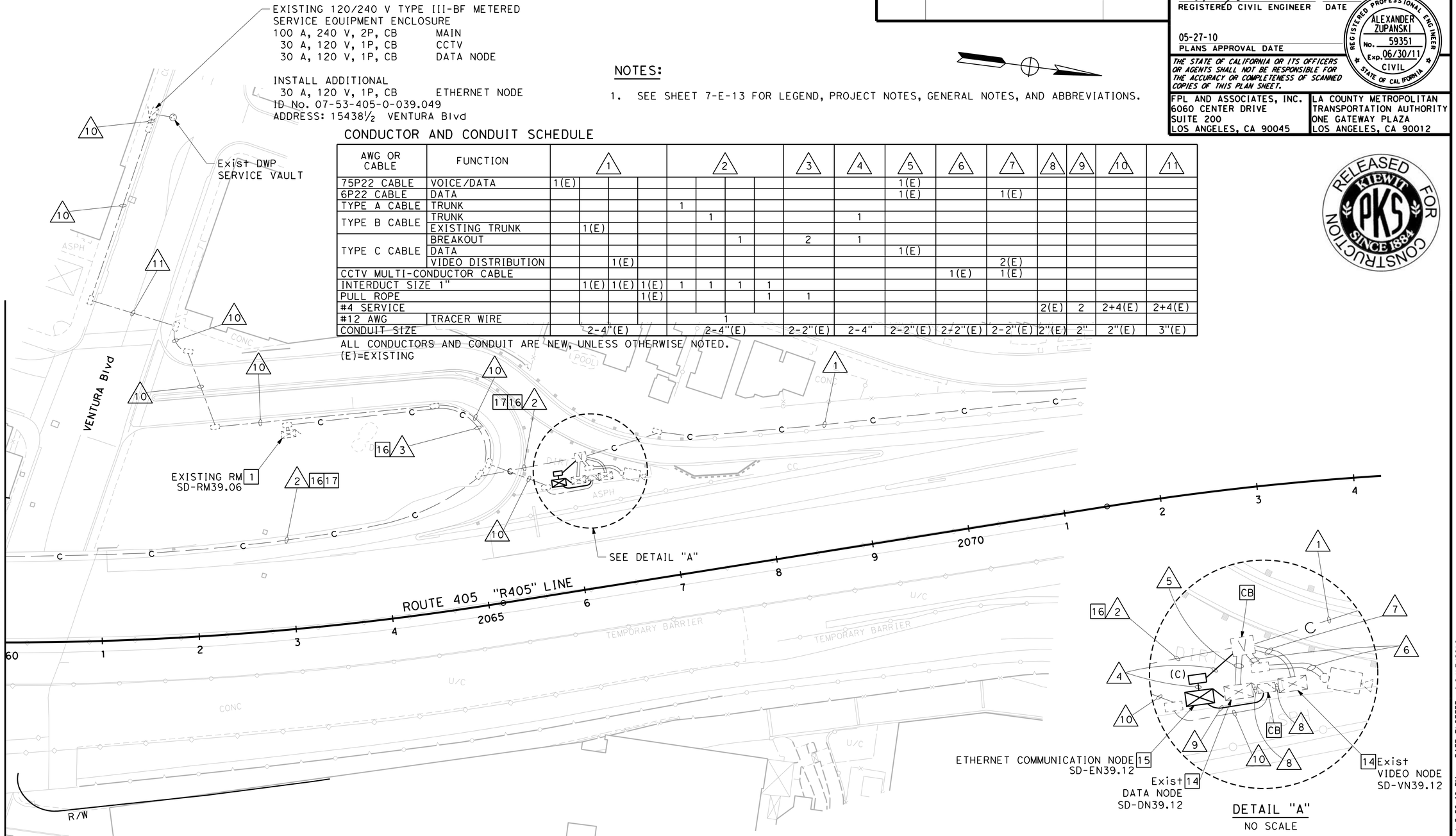
NOTES:

1. SEE SHEET 7-E-13 FOR LEGEND, PROJECT NOTES, GENERAL NOTES, AND ABBREVIATIONS.

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	FUNCTION	1				2				3	4	5	6	7	8	9	10	11
75P22 CABLE	VOICE/DATA	1(E)										1(E)						
6P22 CABLE	DATA											1(E)		1(E)				
TYPE A CABLE	TRUNK					1												
TYPE B CABLE	TRUNK						1				1							
	EXISTING TRUNK		1(E)															
TYPE C CABLE	BREAKOUT							1		2	1							
	DATA											1(E)						
	VIDEO DISTRIBUTION			1(E)										2(E)				
CCTV MULTI-CONDUCTOR CABLE													1(E)	1(E)				
INTERDUCT SIZE 1"			1(E)	1(E)	1(E)	1	1	1	1									
PULL ROPE					1(E)				1	1								
#4 SERVICE															2(E)	2	2+4(E)	2+4(E)
#12 AWG	TRACER WIRE							1										
CONDUIT SIZE			2-4"(E)				2-4"(E)			2-2"(E)	2-4"	2-2"(E)	2-2"(E)	2-2"(E)	2"(E)	2"	2"(E)	3"(E)

ALL CONDUCTORS AND CONDUIT ARE NEW, UNLESS OTHERWISE NOTED.
(E)=EXISTING



DETAIL "A"
NO SCALE

COMMUNICATION SYSTEM

SCALE : 1"=50'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

7-E-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR	BRIAN BURKHARD
CALCULATED-DESIGNED BY	HUBURT KANG
CHECKED BY	ALEX ZUPANSKI
REVISED BY	N/A
DATE REVISED	N/A

LAST REVISION 00-00-00 — TIME PLOTTED => 5:36:46 PM — DATE PLOTTED => 8/17/2010

BORDER LAST REVISED 4/11/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => Huburt Kang — DGN FILE => 45710-S-TR-ITS03-7.dgn — CU 07242 — EA 120301