

# **INFORMATION HANDOUT**

**For Contract No. 07-2W7004**

**At 07-LA-1,10,405-PM Various**

**Identified by**

**Project ID 0713000438**

## **As-Builts**

Fiber Optic System As-Built Drawings

CCTV, Loop Detector and Communication System Routing

7/12/05, DON EBASCO 7/16/93  
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DESIGN OVERSIGHT  
 GREGORY DAMICO  
 CHECKED BY AP  
 DATE REVISIONS

**CONDUIT AND CONDUCTOR SCHEDULE**

CONDUCTOR TYPE	FUNCTION	1	2	3	4	5	6	7	8	9	10	11	12	13
50P22 CABLE	DATA /PHONE	1												
6P22 CABLE	DATA /PHONE				1									
12 SMFO CABLE	VIDEO TRUNK	1												
12 MMFO CABLE	SH VIDEO	1												
2 MMFO B/O CABLE	SH VIDEO										1			
2 SMFO B/O CABLE	SH VIDEO										1			
RG-6A/U COAX	BB VIDEO										1			
27C18 CABLE	CAMERA CONTROL										1			
#14	POWER													
#12	POWER													
#10	POWER													
#8	POWER													
#6	GROUND				1						1	1		
#4	POWER					2							2	
DLC	RAMP/COUNT						2(N)	2(N)	2(N)	2(N)				
DLC	RAMP/COUNT							1	3	7				

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1, 10	R34.6/35.2, R2.2/R5.7	16	61

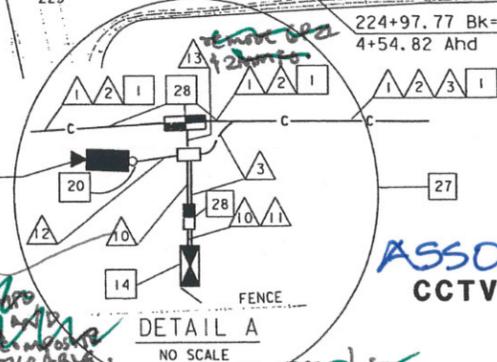
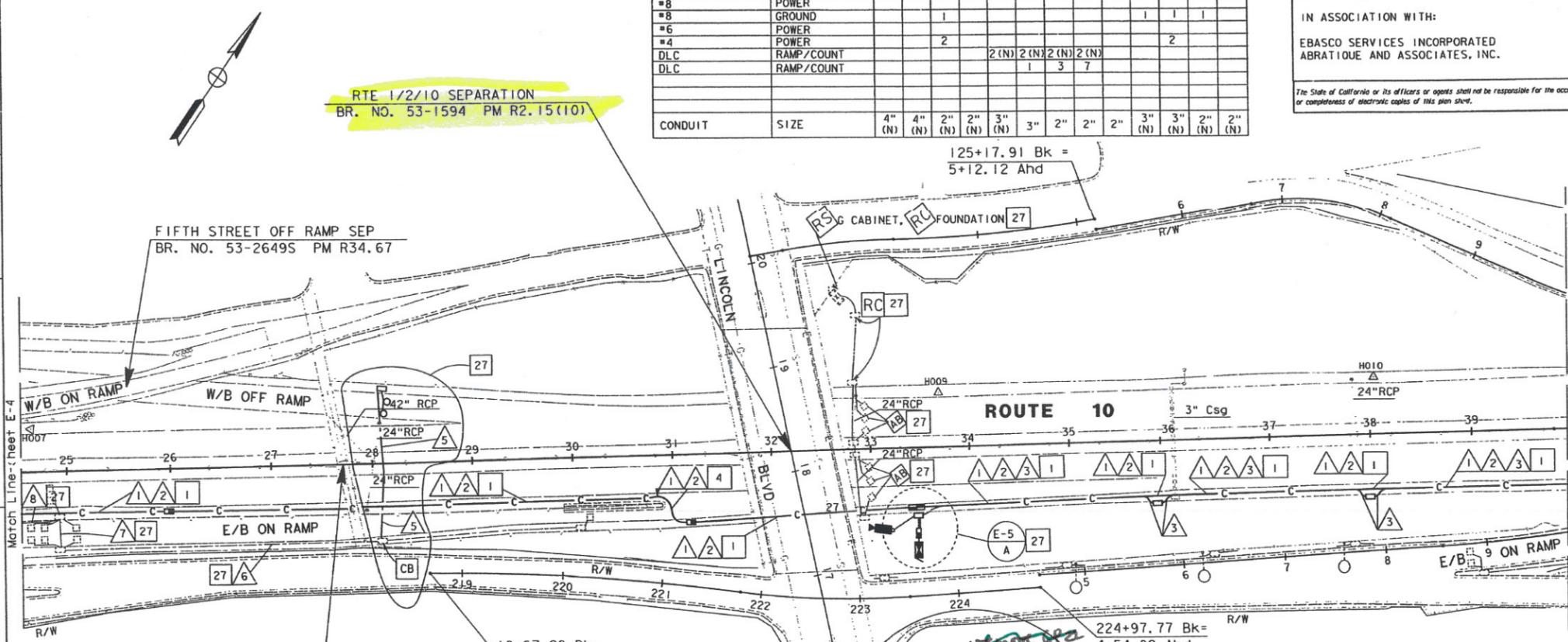
5/24/99  
 REGISTERED ELECTRICAL ENGINEER  
 ASHOK KUMAR PURI  
 No. 12891  
 Exp. 2/31/96  
 STATE OF CALIFORNIA

2-21-95  
 PLANS APPROVAL DATE

NATIONAL ENGINEERING TECHNOLOGY  
 14320 FIRESTONE BLVD., SUITE 100  
 LA MIRADA, CA 90638

IN ASSOCIATION WITH:  
 EBASCO SERVICES INCORPORATED  
 ABRATIQUE AND ASSOCIATES, INC.

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**AS-BUILT**  
 Contract No. 07- 120714  
 Resident Engineer: AMOS, H.  
 Completion Date: 06/04/1998

SEE SHEET 16A  
 ASSOC. W/EA 2W7001/1 of 9  
**CCTV CAMERA, COMMUNICATION SYSTEM AND UTILITY**  
 (LOCATION 3)  
 SCALE: 1"=50'

1 PER ADDENDUM NO. 1 DATED APRIL 13, 1995

SEE SHEETS E-1 AND E-2 FOR LEGEND AND NOTES.  
 NOTES: THIS PLAN ACCURATE FOR ELECTRICAL WORK AND UTILITIES ONLY.

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

USERNAME => tomcd  
 DGN FILE => /usr/tomcd/P5/712071u05.dgn

CU 07387 EA 120711

**FIBER OPTIC CABLE RTG. SHTS.**



7/12/2001 6:00 AM EBASCO 7/16/93  
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 GREGORY DAMICO  
 DESIGN OVERSIGHT  
 CHECKED BY AP  
 DATE REVISOR DATE REVISOR

CONDUIT AND CONDUCTOR SCHEDULE		1	2	3	4	5	6	7	8	9	10	11	12	13
50P22 CABLE	DATA /PHONE	1							1 (N)	1 (N)				
50P22 CABLE	DATA /PHONE													
6P22 CABLE	DATA /PHONE				1 (N)	1 (N)	1 (N)							
48 SMFO CABLE	VIDEO TRUNK													
12 SMFO CABLE									1 (N)	1 (N)				
12 MMFO CABLE	SH VIDEO													
12 MMFO CABLE	SH VIDEO								1 (N)	1 (N)				
2 MMFO B/O CABLE	SH VIDEO													
2 SMFO B/O CABLE	SH VIDEO													
RG-6A/U COAX	BB VIDEO													
27C18 CABLE	CAMERA CONTROL													
#14	POWER													
#12	POWER													
#10	POWER						2							
#8	POWER									3				
#6	GROUND													
#4	POWER													
DLC	RAMP/COUNT					1 (N)					4 (N)	6 (N)	6 (N)	1 (N)
DLC	RAMP/COUNT						1 (N)	7	7	1 (N)				2
1" FLEX CONDUIT														
CONDUIT	SIZE	4" (N)	4" (N)	2" (N)	2"	2"	3"	3"	3"	3"	3"	3"	3"	2"

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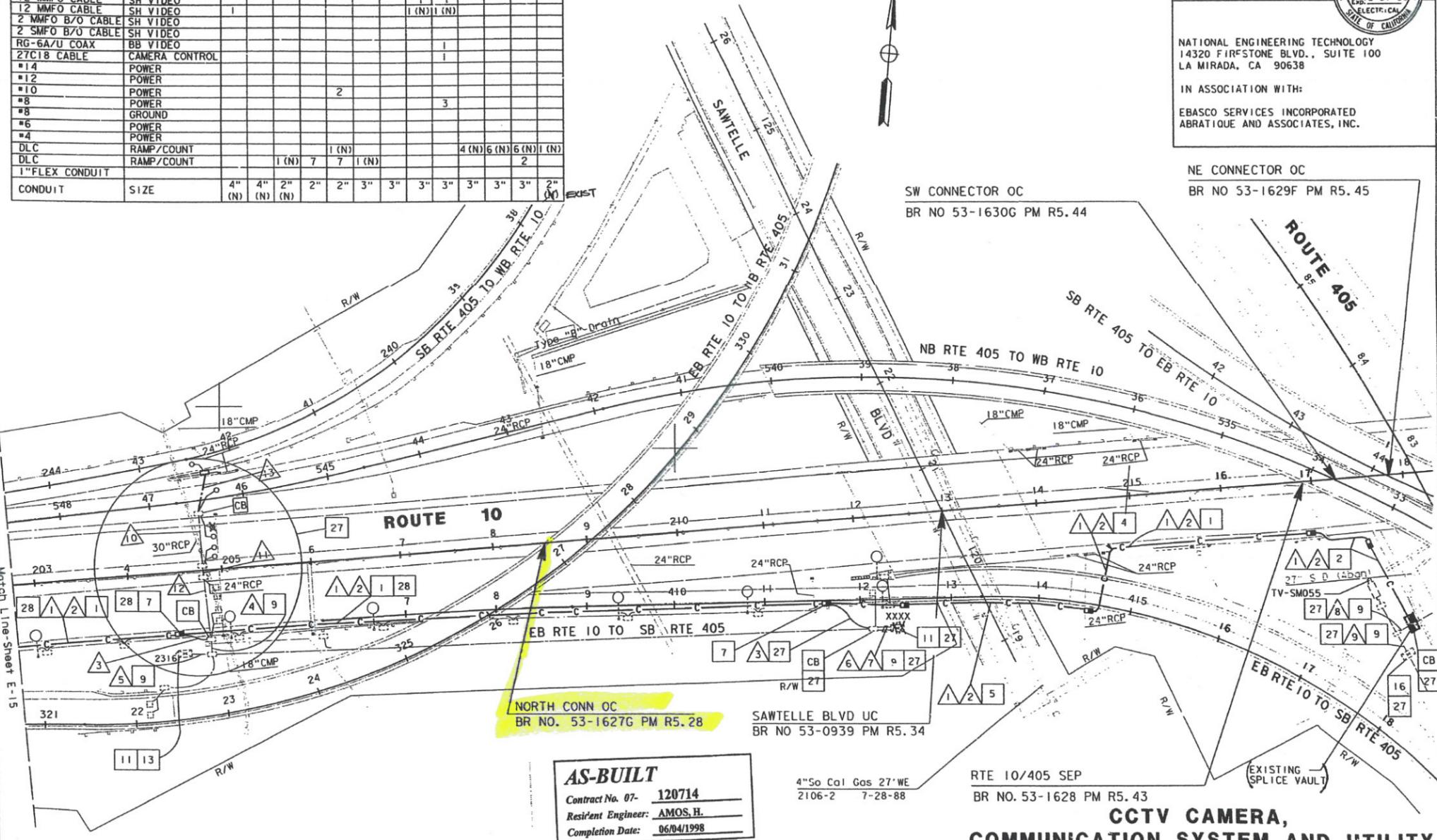
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1, 10	R34.6/35.2 R2.2/R5.7	27	61

5/24/94  
 REGISTERED ELECTRICAL ENGINEER  
 2-21-95  
 PLANS APPROVAL DATE

ASHOK KUMAR PURI  
 12891  
 12-31-96  
 ELECTRICAL  
 STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY  
 14320 FIRESTONE BLVD., SUITE 100  
 LA MIRADA, CA 90638

IN ASSOCIATION WITH:  
 EBASCO SERVICES INCORPORATED  
 ABRATIQUÉ AND ASSOCIATES, INC.



**AS-BUILT**  
 Contract No. 07- 120714  
 Resident Engineer: AMOS, H.  
 Completion Date: 06/04/1998

**CCTV CAMERA, COMMUNICATION SYSTEM AND UTILITY (LOCATION 5)**

SEE SHEETS E-1 AND E-2 FOR LEGEND AND NOTES.  
 NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK AND UTILITIES ONLY.

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

USERNAME -> tenard  
 DGN FILE -> /usr/tenard/P2/712071u16.dg

CU 07387 EA 120711

Sht 3 of 9

TIME PLOTTED -> 02-MAR-1995 09:08

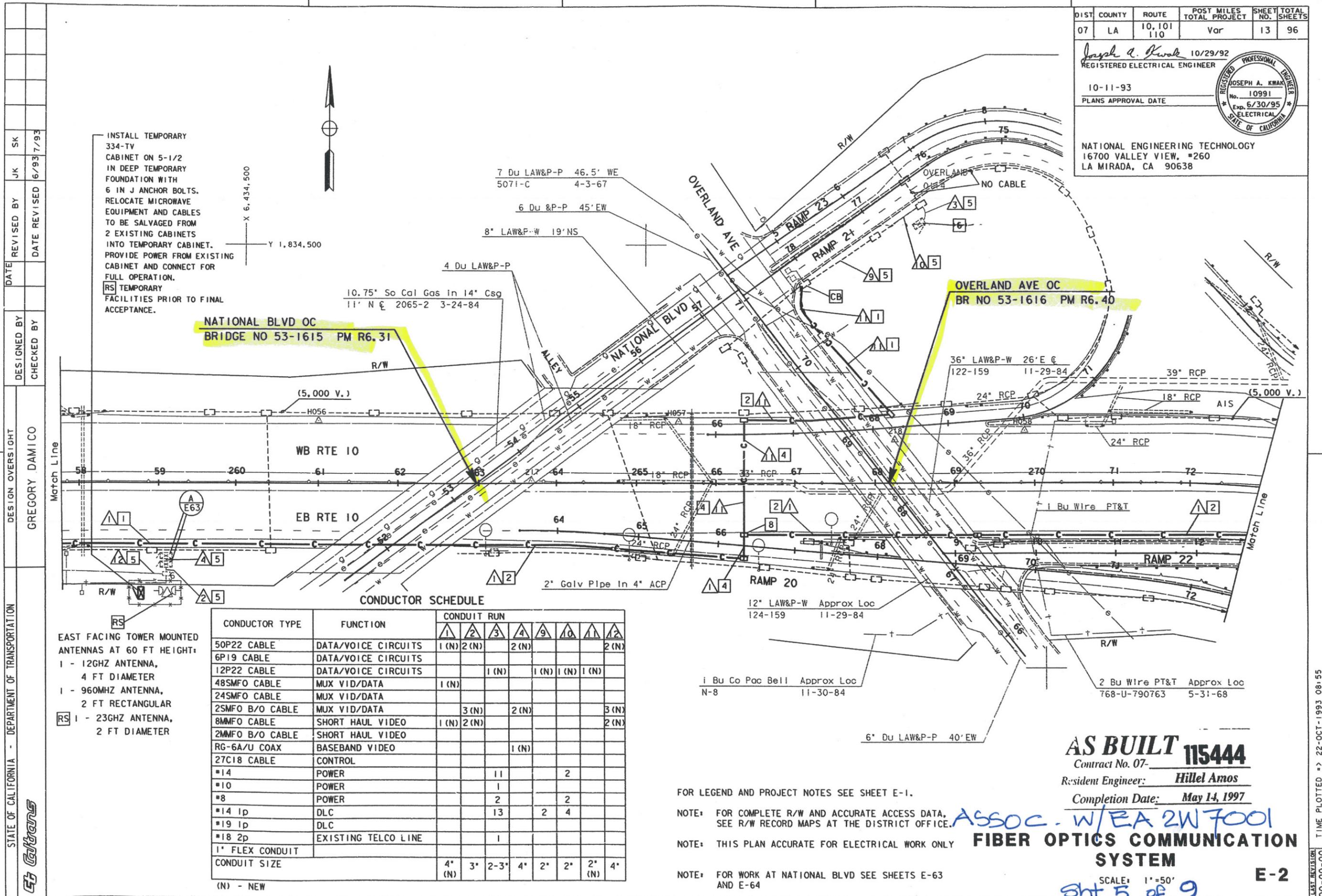


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10, 101 110	Var	13	96

Joseph A. Kwak 10/29/92  
REGISTERED ELECTRICAL ENGINEER

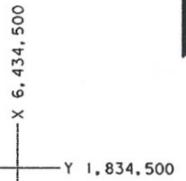
10-11-93  
PLANS APPROVAL DATE

NATIONAL ENGINEERING TECHNOLOGY  
16700 VALLEY VIEW, #260  
LA MIRADA, CA 90638



INSTALL TEMPORARY 334-TV CABINET ON 5-1/2 IN DEEP TEMPORARY FOUNDATION WITH 6 IN J ANCHOR BOLTS. RELOCATE MICROWAVE EQUIPMENT AND CABLES TO BE SALVAGED FROM 2 EXISTING CABINETS INTO TEMPORARY CABINET. PROVIDE POWER FROM EXISTING CABINET AND CONNECT FOR FULL OPERATION.

RS TEMPORARY FACILITIES PRIOR TO FINAL ACCEPTANCE.



NATIONAL BLVD OC  
BRIDGE NO 53-1615 PM R6.31

OVERLAND AVE OC  
BR NO 53-1616 PM R6.40

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	CONDUIT RUN											
		1	2	3	4	9	10	11	12	13	14	15	
50P22 CABLE	DATA/VOICE CIRCUITS	1 (N)	2 (N)		2 (N)								2 (N)
6P19 CABLE	DATA/VOICE CIRCUITS												
12P22 CABLE	DATA/VOICE CIRCUITS			1 (N)		1 (N)	1 (N)	1 (N)					
48SMFO CABLE	MUX VID/DATA	1 (N)											
24SMFO CABLE	MUX VID/DATA												
2SMFO B/O CABLE	MUX VID/DATA		3 (N)		2 (N)								3 (N)
8MMFO CABLE	SHORT HAUL VIDEO	1 (N)	2 (N)										2 (N)
2MMFO B/O CABLE	SHORT HAUL VIDEO												
RG-6A/U COAX	BASEBAND VIDEO				1 (N)								
27C18 CABLE	CONTROL												
#14	POWER			11					2				
#10	POWER			1									
#8	POWER			2					2				
#14 1p	DLC			13		2	4						
#19 1p	DLC												
#18 2p	EXISTING TELCO LINE			1									
1" FLEX CONDUIT													
CONDUIT SIZE		4" (N)	3"	2-3"	4"	2"	2"	2"	2" (N)	4"			

(N) - NEW

RS EAST FACING TOWER MOUNTED ANTENNAS AT 60 FT HEIGHT:  
1 - 12GHZ ANTENNA, 4 FT DIAMETER  
1 - 960MHZ ANTENNA, 2 FT RECTANGULAR  
RS 1 - 23GHZ ANTENNA, 2 FT DIAMETER

FOR LEGEND AND PROJECT NOTES SEE SHEET E-1.

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

NOTE: FOR WORK AT NATIONAL BLVD SEE SHEETS E-63 AND E-64

**AS BUILT 115444**  
Contract No. 07-

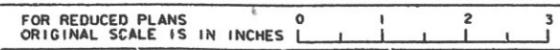
Resident Engineer: **Hillel Amos**

Completion Date: **May 14, 1997**

**ASSOC. W/EA 2W7001 FIBER OPTICS COMMUNICATION SYSTEM**

SCALE: 1"=50'  
**Sht 5 of 9**

**E-2**



USERNAME => normk  
DGN FILE => /usr/normk/P0/711544u02.dgn

CU 07387

EA 115441



DATE REVISION BY DATE REVISION BY  
 CALCULATED/DESIGNED BY CHECKED BY  
 DESIGN OVERSIGHT GREGORY DAMICO  
 DEPARTMENT OF TRANSPORTATION - STATE OF CALIFORNIA  
 EBASCO 10/22/92  
 711544u12.DGN

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	CONDUIT RUN													
		1	3	4	5	6	7	8	9	10	12	13	14		
50P22 CABLE	DATA/VOICE CIRCUITS	1 (N)													
6P19 CABLE	DATA/VOICE CIRCUITS														
12P22 CABLE	DATA/VOICE CIRCUITS		1 (N)		1 (N)	1 (N)	1 (N)	1 (N)	1 (N)	1 (N)	1 (N)	1 (N)	1 (N)		
48SMFO CABLE	MUX VID/DATA	1 (N)													
24SMFO CABLE	MUX VID/DATA														
2SMFO B/O CABLE	MUX VID/DATA														
8MMFO CABLE	SHORT HAUL VIDEO	1 (N)													
2MMFO B/O CABLE	SHORT HAUL VIDEO														
RG-6A/U COAX	BASEBAND VIDEO														
27C18 CABLE	CONTROL														
#14	POWER			7											
#10	POWER			2											
#14 1p	DLC		2	4											
#19 1p	DLC		9	7		3	5	9	10	11	2	9			
#19 2p	EXISTING TELCO LINE										1				
1" FLEX CONDUIT															
CONDUIT SIZE		4" (N)	3"	3"	2"	2" (N)	2"	2"	2"	2"	2"	2"	2"	2"	

(N) - NEW

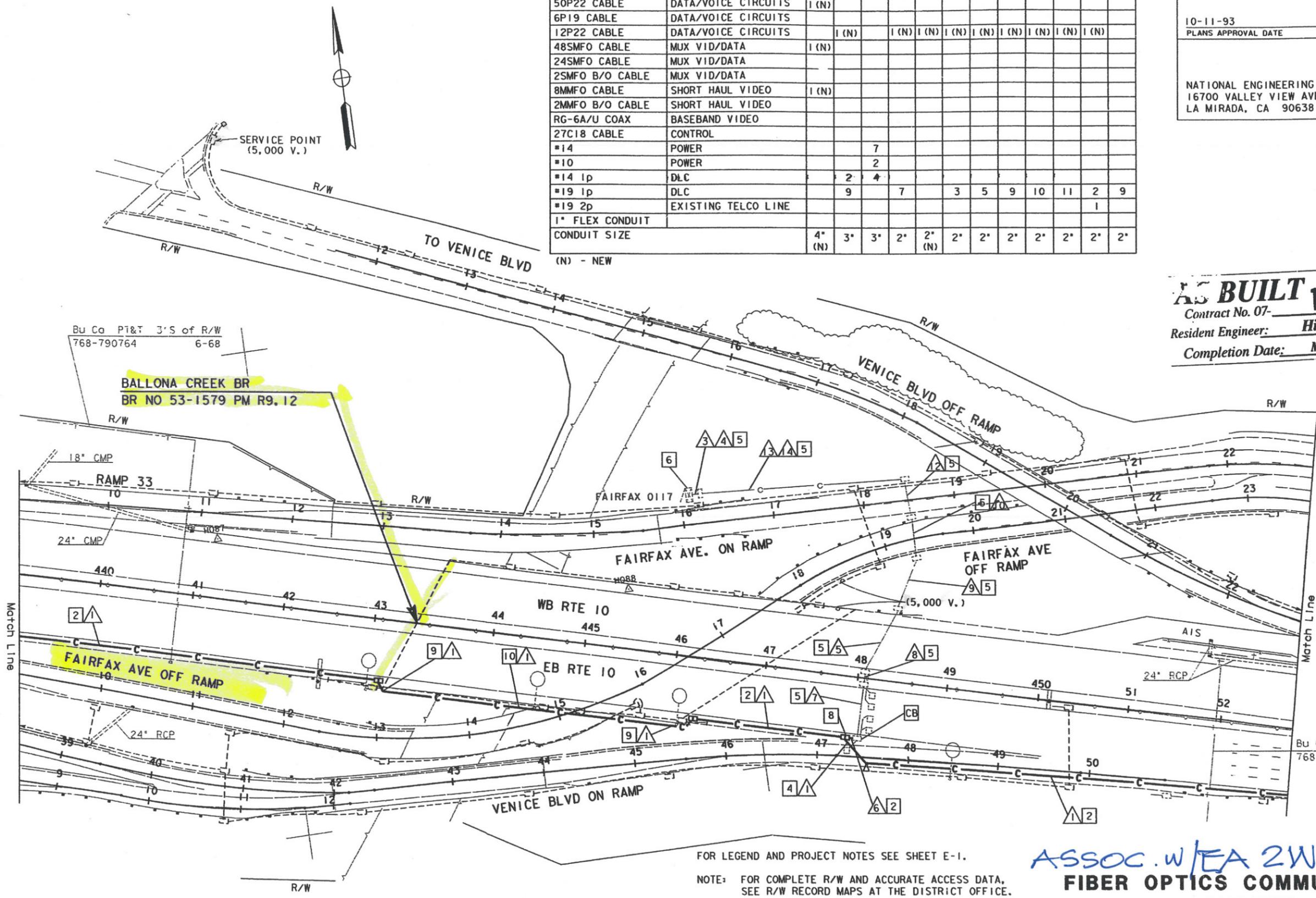
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10, 101, 110	Var	23	96

Joseph A. Kwak 10/29/92  
 REGISTERED ELECTRICAL ENGINEER

10-11-93  
 PLANS APPROVAL DATE

NATIONAL ENGINEERING TECHNOLOGY  
 16700 VALLEY VIEW AVE. #260  
 LA MIRADA, CA 90638

**AS BUILT 115444**  
 Contract No. 07-  
 Resident Engineer: **Hillel Amos**  
 Completion Date: **May 14, 1997**



FOR LEGEND AND PROJECT NOTES SEE SHEET E-1.  
 NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT THE DISTRICT OFFICE.  
 NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

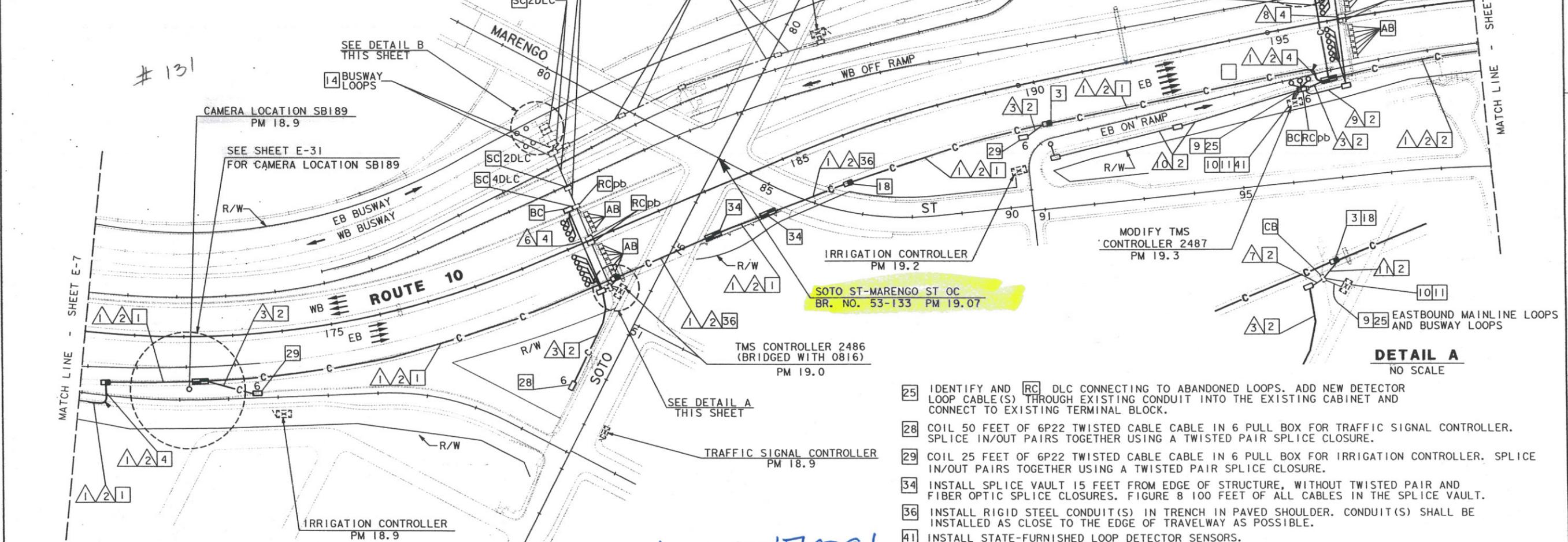
ASSOC. W/EA 2W7001  
**FIBER OPTICS COMMUNICATION SYSTEM**  
 sht 7 of 9  
 SCALE: 1"=50'  
**E-12**

TIME PLOTTED => 22-OCT-1993 10:00  
 LAST REVISION 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 PROJECT ENGINEER - PAT SULLIVAN  
 DATE REVISIONS: 9/95  
 TP JZ  
 CHECKED BY: JZ  
 DATE REVISIONS: 9/95

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN										
CONDUCTOR TYPE	FUNCTION	1	2	3	4	6	7	8	9	10	11	
50P22 CABLE	DATA /PHONE											2
6P22 CABLE	DATA /PHONE											
72SMFO CABLE	DATA /VIDEO											
12SMFO CABLE	SH VIDEO											
2SMFO B/O CABLE	SH VIDEO											
DLC	RAMP/COUNT						6	11	17			
DLC	BUSWAY COUNT					4	4					
	INNERDUCT	1/4"	1/4"		1/4"							
	CONDUIT SIZE	4"	4"	2"	3"	2"	2"	2"	3"	2"	2"	

- PROJECT NOTES: (THIS SHEET ONLY)**
- INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-56 FOR DETAILS.
  - INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-55 FOR DETAILS.
  - INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-62 AND E-63 FOR DETAILS.
  - JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-57 FOR DETAILS.
  - ADD CABLE(S) AND CONNECT TO CONTROLLER.
  - INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEET E-65 AND DETAIL 1, SHEET E-67.
  - DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
  - RC EXIST DLC. INSTALL NEW DLC IN THE EXISTING CONDUIT.
  - INSTALL COMMUNICATION PULL BOX 15 FEET FROM EDGE OF STRUCTURE.



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 10	16.9/18.5, 50.0/31.1	74	159

TERI J. PAROLA 9/18/95  
 REGISTERED ELECTRICAL ENGINEER (Date)

12-30-96  
 PLANS APPROVAL DATE

NATIONAL ENGINEERING TECHNOLOGY  
 14320 FIRESTONE BLVD., SUITE 100  
 LA MIRADA, CA 90638

IN ASSOCIATION WITH:  
 KAWES AND ASSOCIATES, INC.

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- IDENTIFY AND RC DLC CONNECTING TO ABANDONED LOOPS. ADD NEW DETECTOR LOOP CABLE(S) THROUGH EXISTING CONDUIT INTO THE EXISTING CABINET AND CONNECT TO EXISTING TERMINAL BLOCK.
- COIL 50 FEET OF 6P22 TWISTED CABLE CABLE IN 6 PULL BOX FOR TRAFFIC SIGNAL CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A TWISTED PAIR SPLICE CLOSURE.
- COIL 25 FEET OF 6P22 TWISTED CABLE CABLE IN 6 PULL BOX FOR IRRIGATION CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A TWISTED PAIR SPLICE CLOSURE.
- INSTALL SPLICE VAULT 15 FEET FROM EDGE OF STRUCTURE, WITHOUT TWISTED PAIR AND FIBER OPTIC SPLICE CLOSURES. FIGURE 8 100 FEET OF ALL CABLES IN THE SPLICE VAULT.
- INSTALL RIGID STEEL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. CONDUIT(S) SHALL BE INSTALLED AS CLOSE TO THE EDGE OF TRAVELWAY AS POSSIBLE.
- INSTALL STATE-FURNISHED LOOP DETECTOR SENSORS.

ASSOC. W/EA2W7001

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY. FOR LEGEND AND PROJECT NOTES SEE SHEETS E-1 AND E-2. Sht 8 of 9

**LOOP DETECTOR, CCTV AND COMMUNICATION SYSTEM ROUTING**

SCALE: 1"=100'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => trbing  
 DGN FILE => [ESC-OE]1712073u08.psf

CU 07396

EA 120731

DATE PLOTTED => 10-Jan-1997  
 TIME PLOTTED => 09:02

PROJECT NOTES: (THIS SHEET ONLY)

- 47 ADD 2 DLC IN EXISTING CONDUIT.
- 49 ADD 5 DLC IN EXISTING CONDUIT.

CONDUCTOR SCHEDULE		RUN					
CONDUCTOR TYPE	FUNCTION	13	14	39	50	51	99
50P22 CABLE	COMMUNICATION DATA						
6P22 CABLE	CONTROLLER DATA	1	2			2	
48SMFO	SONET/CCTV TRUNK			1	1	1	
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION			1/4	1/4	1/4	1/4
	INNERDUCT						
	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

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

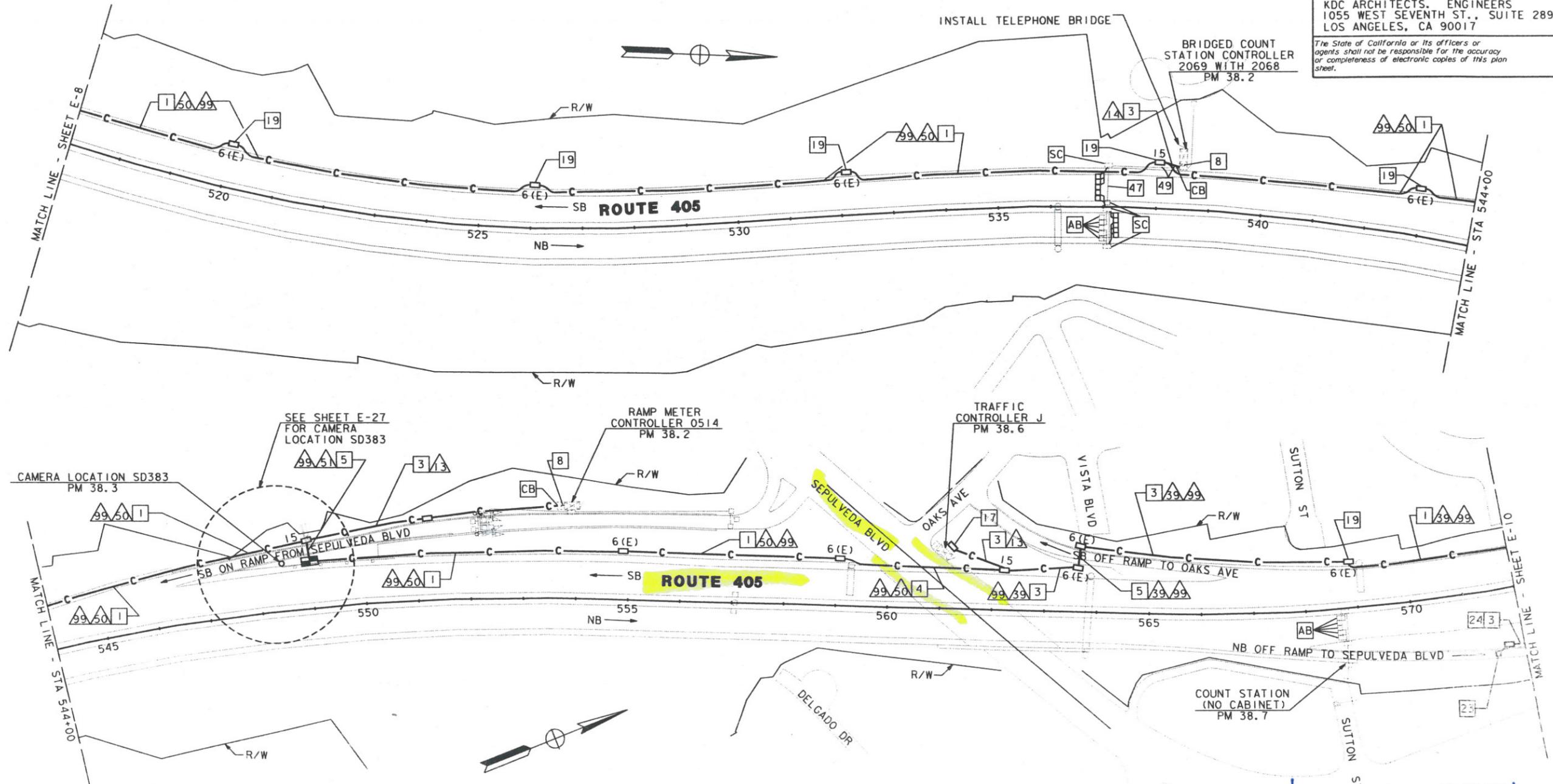
IN ASSOCIATION WITH:  
KDC ARCHITECTS. ENGINEERS  
1055 WEST SEVENTH ST., SUITE 2890  
LOS ANGELES, CA 90017

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DATE REVISIED BY MZ  
10/93  
RL  
12/93  
RS  
DATE REVISIED 10/94

DESIGN OVERSIGHT  
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



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



USERNAME => lenard  
DGN FILE => /usr/lenard/P5/712083u09.dg

CU 07374

EA 120831

Assoc. w/EA 2W7001  
CCTV AND COMMUNICATIONS SYSTEM  
ROUTING, AND LOOP DETECTOR

SHt 9 of 9

SCALE: 1" = 100'

E-9