INFORMATION HANDOUT

For Contract No. 07-2W6904
At 07-LA-5-PM Various

Identified by
Project ID 0713000439

As-Builts

Fiber Optic System As-Built Drawings

Communication System Routing

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 10	16.9/18.5, SO.0/31.1	69	159

Teri Parola 9/18/95
REGISTERED ELECTRICAL ENGINEER (Date)

12-30-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TERI J. PAROLA — No. 14898 — Exp. 6/30/99 — ELECTRICAL — STATE OF CALIFORNIA

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

IN ASSOCIATION WITH:

KAWES AND ASSOCIATES, INC.

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.

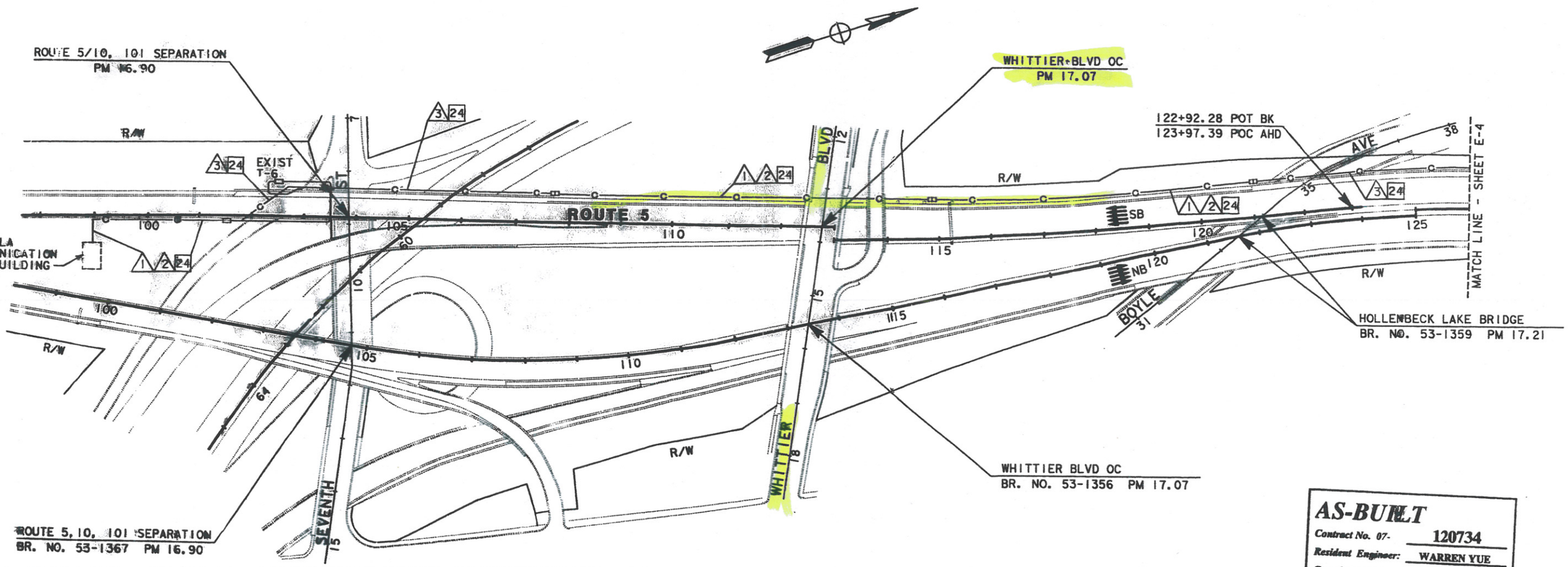
DESIGNED BY	PAT SULLIVAN	9/95	REVISED BY
CHECKED BY	JZ	9/95	DATE REVISED

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 2	RUN 5
72 SM FO CABLE	VIDEO / DATA		1	1
48 SM FO CABLE	VIDEO / DATA	1 (E)		1 (E)
RG6/QUAD CABLE	SHORT HAUL VIDEO	1 (E)		1 (E)
50P22 CABLE	DATA / PHONE	1 (E)	1 (E)	
	INNERDUCT	1¼" (E), 1¼" (E)	1¼", 1¼", 1¼"	1¼" (E), 1¼" (E)
	CONDUIT SIZE	4" (E)	4" (E)	4" (E)

(E) - EXISTING CONDUIT OR CONDUCTOR

PROJECT NOTES: (THIS SHEET ONLY)
24 ADD CABLES TO EXISTING CONDUIT.



AS-BUILT
Contract No. 07- 120734
Resident Engineer: WARREN YUE
Completion Date: 09/18/2000

COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

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

E-3

DATE PLOTTED => 26-Mar-2001
TIME PLOTTED => 10:54
LAST REVISION 00-00-00

DC-OE-92-PF (REV. 3/88)

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

USERNAME => HHuynh

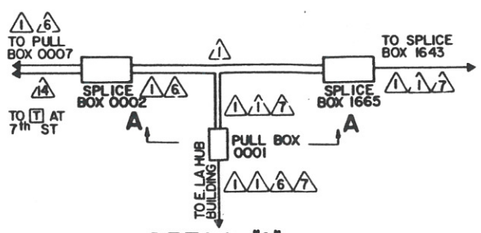
CU 07396

EA 120731

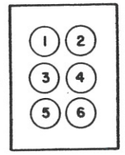
FOR EXISTING UTILITIES
SEE SHEET U 5

PROJECT NOTES:
1. INSTALL CONDUIT IN SLOPED EMBANKMENT.
2. INSTALL CONDUIT IN SLOPED EMBANKMENT.
3. JACK CONDUIT UNDER FREEWAY

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



DETAIL "A"
CONDUIT ROUTING
FOR BOXES 0001, 0002, & 1665
AT E.L.A. HUB LOCATION



CONDUITS 4,5,6 TO SPLICE BOX 1665
CONDUITS 1 & 3 TO SPLICE BOX 0002
NO CONDUIT IN KNOCK OUT 2.

SECTION A-A
PULL BOX 0001
NORTH EAST WALL

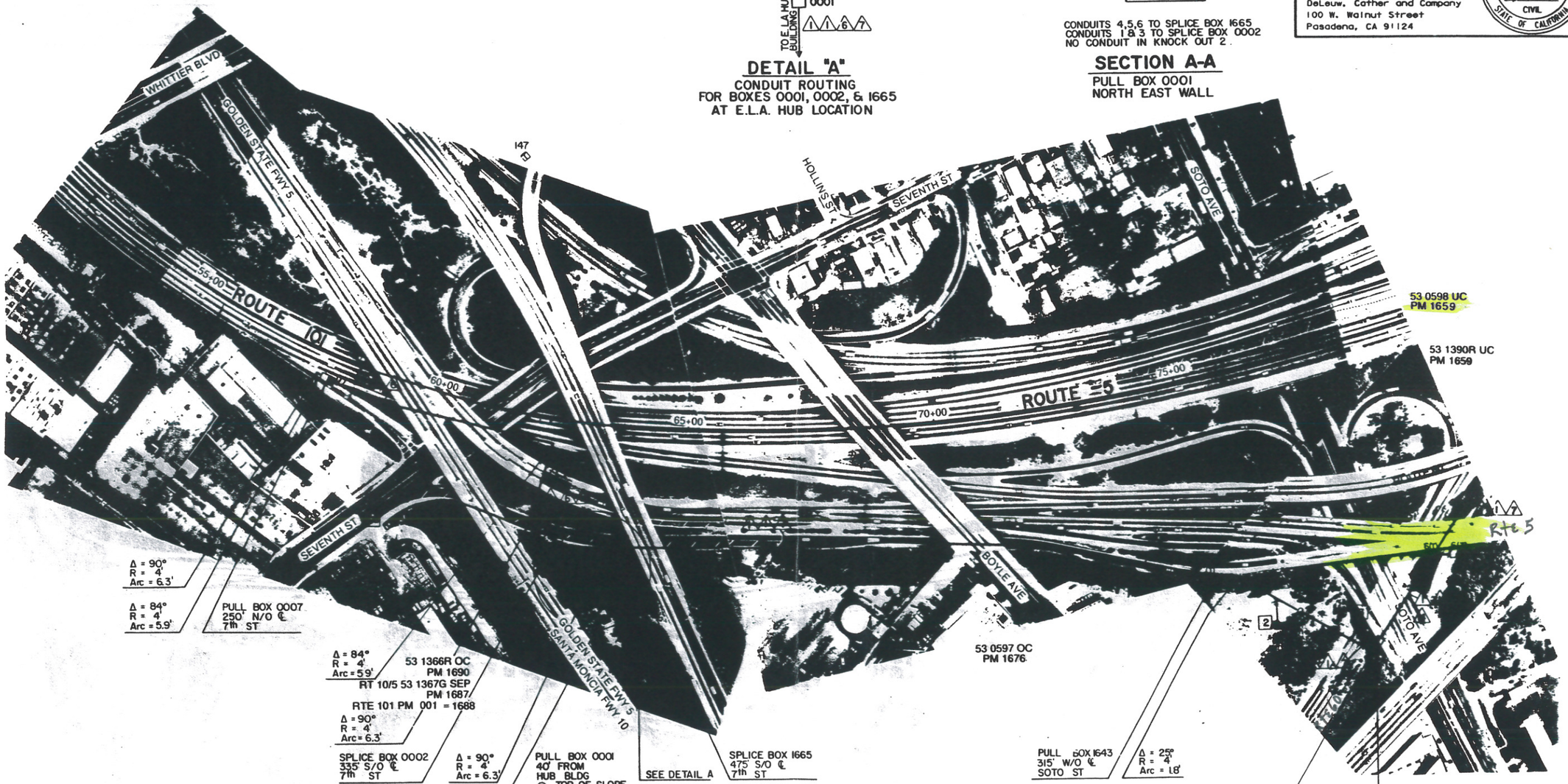
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.8/16.9, 0.0/1.8	36	133

REGISTERED CIVIL ENGINEER — 4/17/95

REGISTERED PROFESSIONAL ENGINEER — T.M. WILSON — No. 43560 — Exp. 6/30/96 — CIVIL — STATE OF CALIFORNIA

3-15-93
PLANS APPROVAL DATE

DeLeuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124



COMMUNICATION ROUTING PLAN

SCALE 1"= 100'

E-6

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

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

CU 07387 | EA 118601

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
DESIGN OVERSIGHT
GLORIA GWYNNE

CALCULATED/ DESIGNED BY	D.R.	DATE	REVISED BY
CHECKED BY	E.C.		DATE REVISED

FORM DC-OE-92-PF (REV. 3/88)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 101	6.8/16.3,0.0/1.8	37	133

REGISTERED CIVIL ENGINEER — 4/17/92

T.M. WILSON No. 43560 Exp. 6/30/96 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

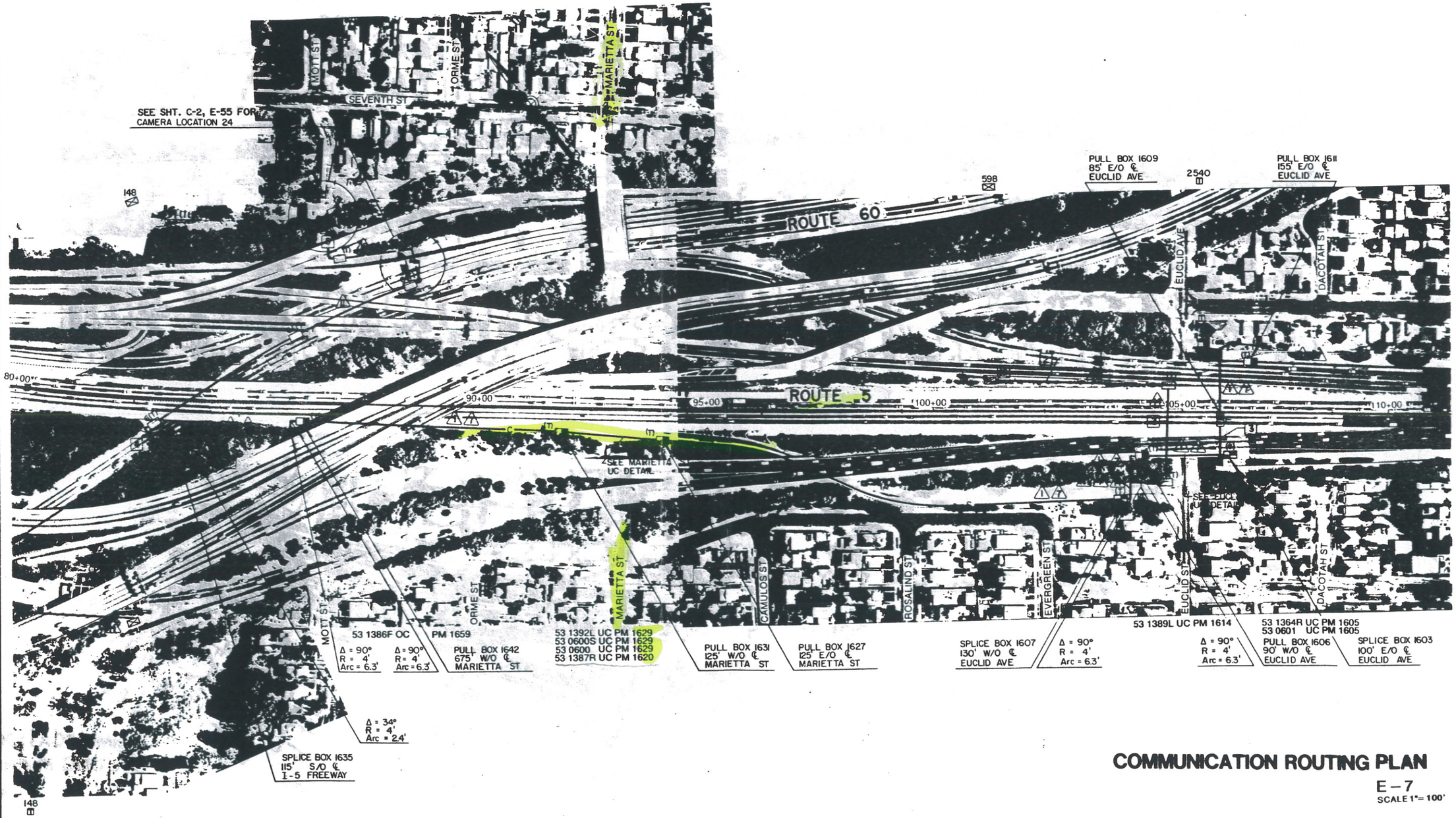
3-15-93
PLANS APPROVAL DATE

DeLeuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124

FOR EXISTING UTILITIES
SEE SHEET U 6

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

PROJECT NOTES:
1. INSTALL CONDUIT IN SLOPED EMBANKMENT.
2. INSTALL CONDUIT IN NON PAVED AREA.
3. INSTALL CONDUIT IN SLOPED EMBANKMENT UNDER EUCLID ST. UC STRUCTURE.
4. JACK CONDUIT UNDER FREEWAY.
5. SEE DRAWING FOR CAMERA LOCATION 24
FOR POWER WIRING TO BE PROVIDED IN 16



COMMUNICATION ROUTING PLAN

E-7
SCALE 1"= 100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

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

CU 07387 | EA 118601

SHEET CC-9 CL 9

DESIGN OVERSIGHT
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

D.R.	DATE	REVISED BY
E.C.		DATE REVISED

CALCULATED/ DESIGNED BY
CHECKED BY

FORM DC-OE-92-PF (REV. 3/88)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.8/16.9, 0.0/1.8	40	133

REGISTERED CIVIL ENGINEER — 4/12/92

3-15-93
PLANS APPROVAL DATE

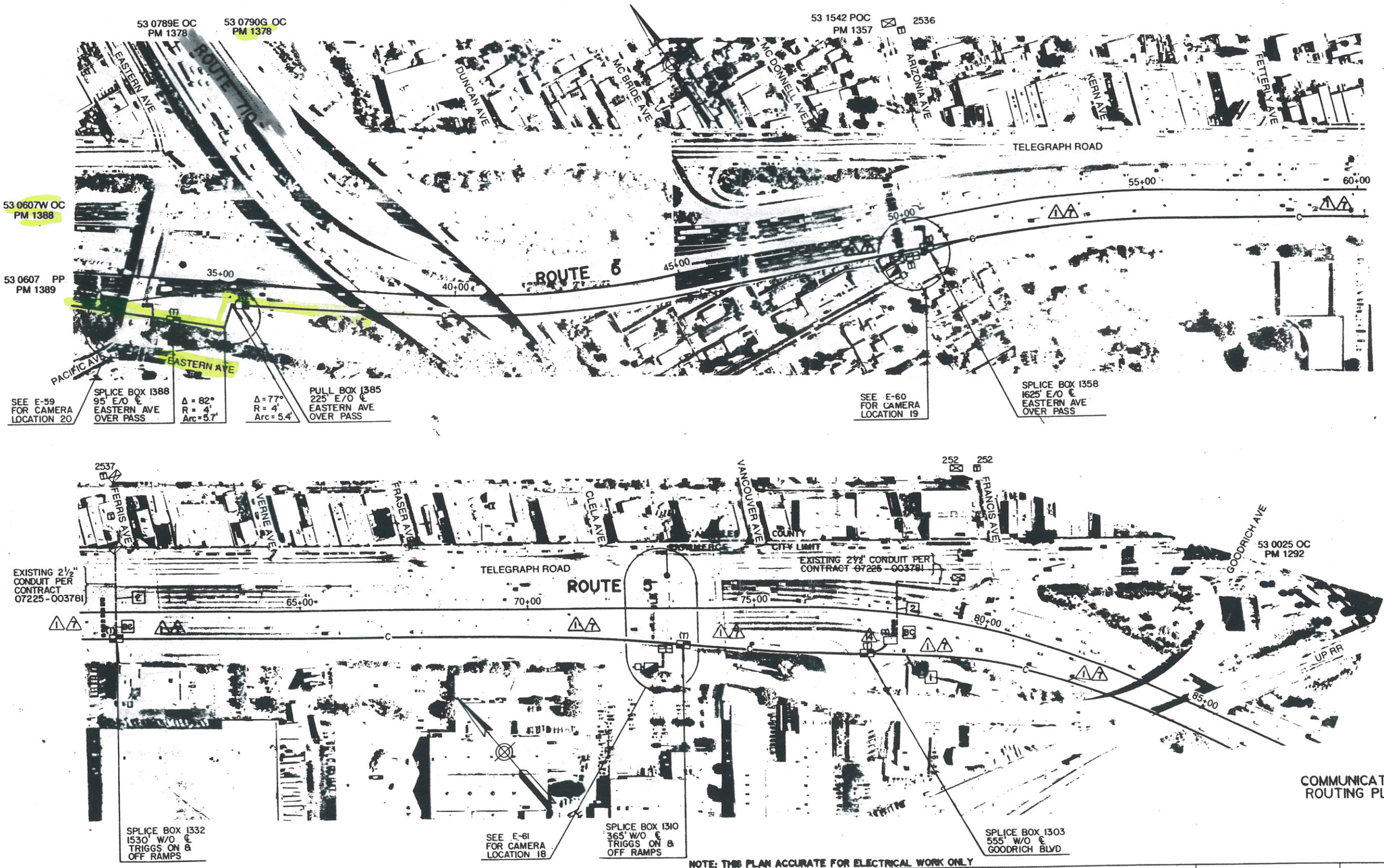
DeLeuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124

REGISTERED PROFESSIONAL ENGINEER
T.M. WILSON
No. 43560
Exp. 6/30/96
CIVIL
STATE OF CALIFORNIA

FOR EXISTING UTILITIES
SEE SHEET U 9

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

PROJECT NOTES: [1] INSTALL CONDUIT IN PAVEMENT
[2] ADD ONE (1) COMMUNICATION DISTRIBUTION CABLE IN EXISTING CONDUIT.



COMMUNICATION ROUTING PLAN

E-10
SCALE 1"= 100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

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

CU 07387 | EA 118601

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

DESIGN OVERSIGHT: GLORIA GWYNNE

	D.R. DATE	REVISED BY
CALCULATED/DESIGNED BY	E.C.	DATE REVISED
CHECKED BY		

FORM DC-OE-92-PF (REV. 3/88)

CC-12 CL12

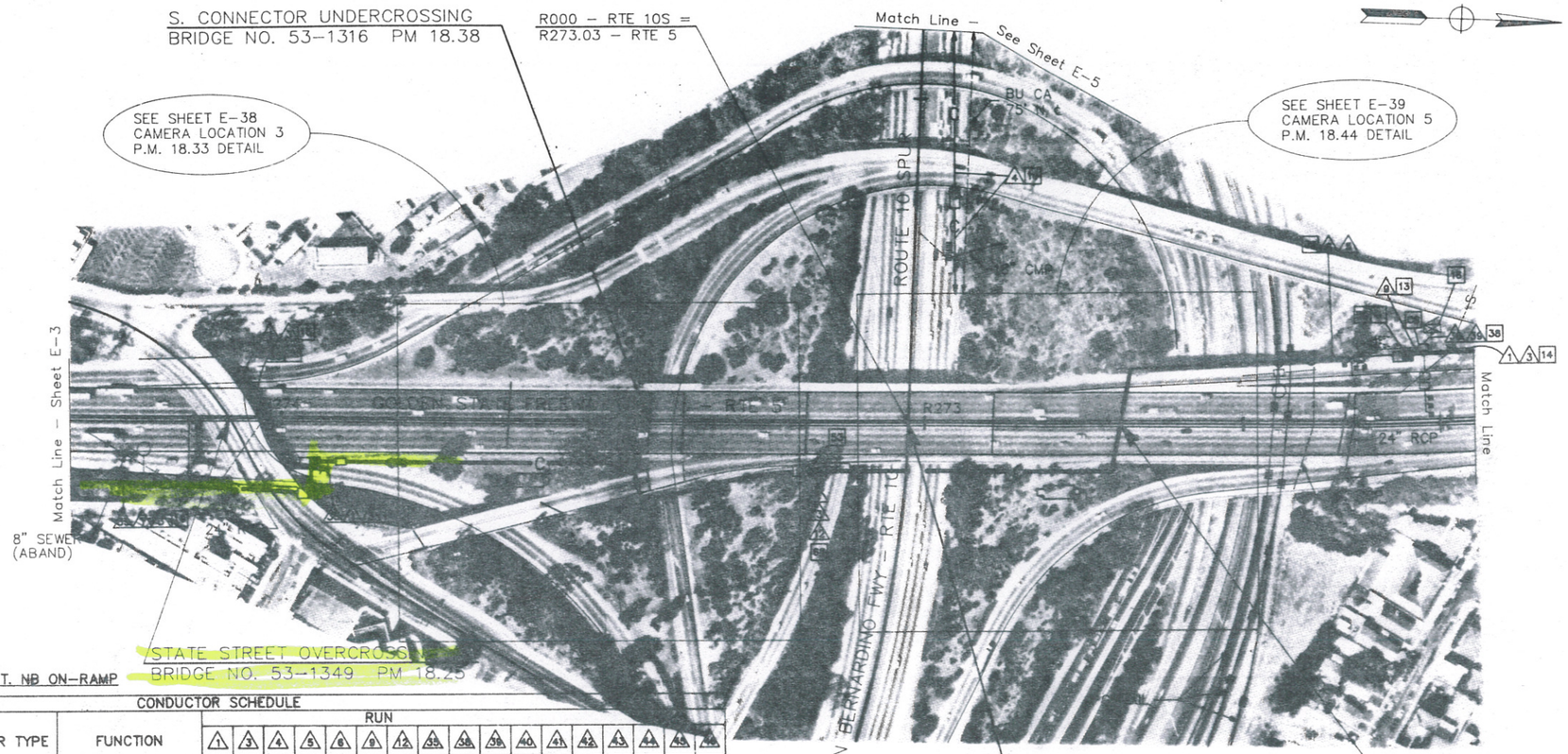
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,SO.1	26	153

Joseph A. Kwak
REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. KWAK
No. 10991
Exp. 6/30/95
STATE OF CALIFORNIA

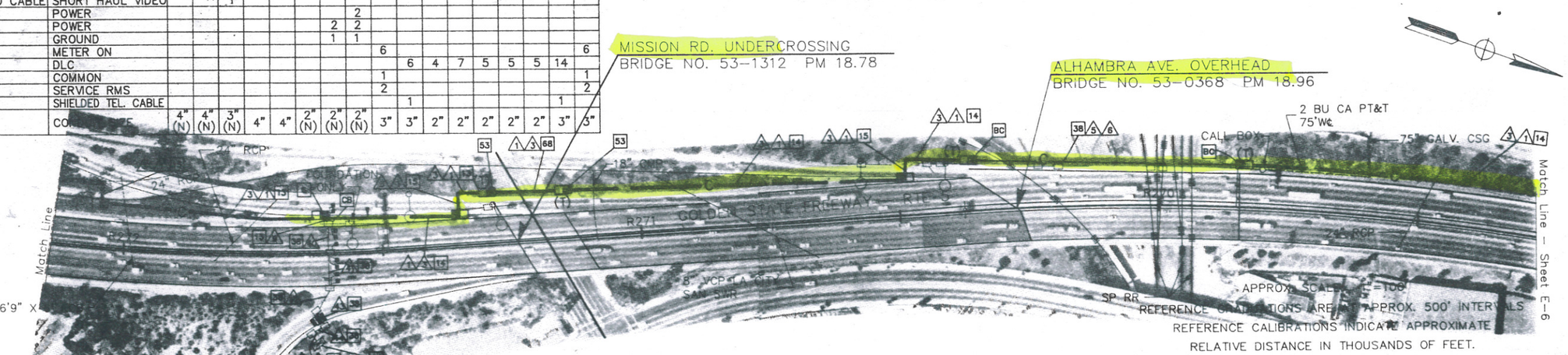
NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



MARENGO ST. NB ON-RAMP

CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 1	3	4	5	6	9	12	35	38	39	40	41	42	43	44	45	46
50P22 CABLE	PHONE LINES	1				1(N)												
6P19 CABLE	PHONE LINES			1														
12P22 CABLE	PHONE LINES						1				1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	
48SMFO CABLE	MUX VID/DATA	1				1(N)												
8MMFO CABLE	SHORT HAUL VIDEO	1				1(N)												
2MMFO B/O CABLE	SHORT HAUL VIDEO			1														
#4	POWER								2									
#2	POWER							2	2									
#8	GROUND							1	1									
#14 EXIST.	METER ON									6								6
#12 EXIST.	DLC										6	4	7	5	5	5	14	
#10 EXIST.	COMMON									1								1
#6 EXIST.	SERVICE RMS									2								2
#18 EXIST.	SHIELDED TEL. CABLE										1						1	
	CONDUCTOR SIZE	4" (N)	4" (N)	3" (N)	4"	4"	2" (N)	2" (N)	2" (N)	3"	3"	2"	2"	2"	2"	2"	3"	3"



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 AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-4

CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
CHECKED BY JK	3/23	JK	5/22

DESIGN OVERSIGHT
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

11663E04.DWG HLN 05/15/92

FORM DC-OE-92-PF (REV. 3/88)

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

CU 07387 EA 116634

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,50.1	33	153

Joseph A. Kwak
REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. KWAK
No. 10991
Exp. 6/30/95
STATE OF CALIFORNIA

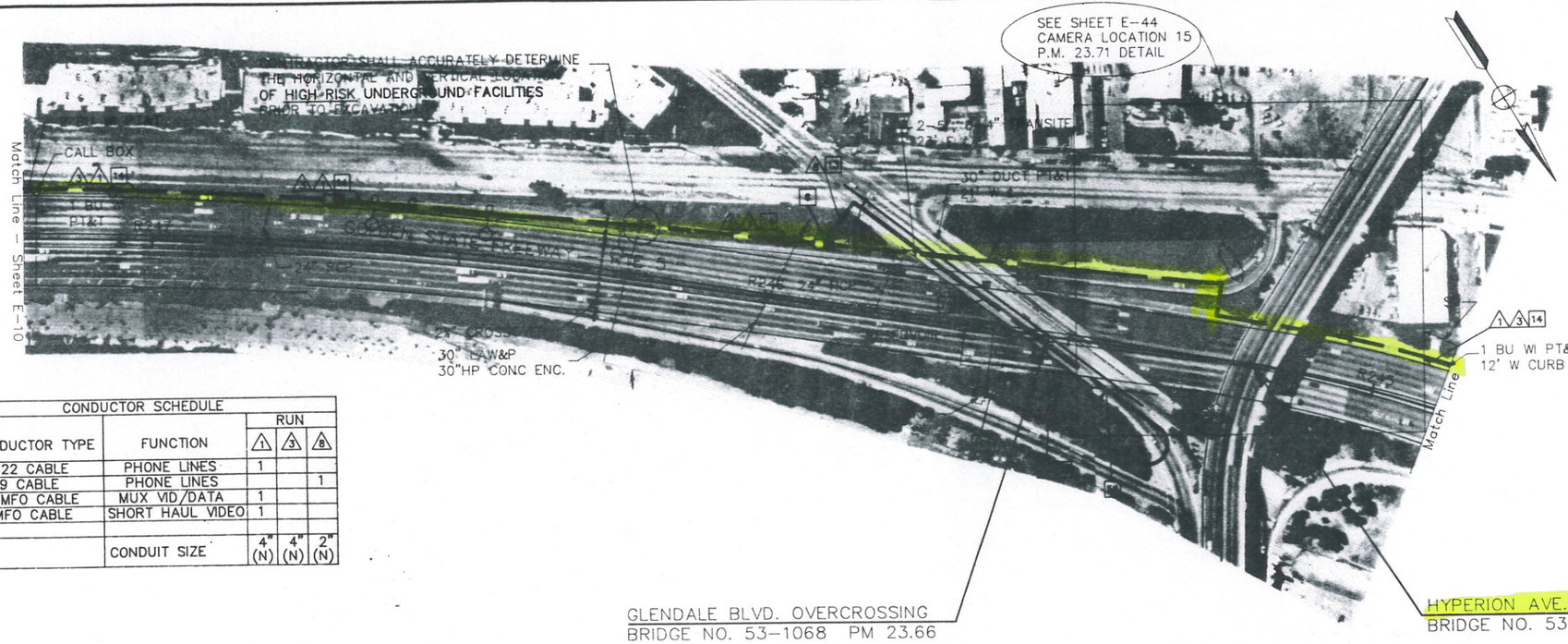
NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS

DATE	REVISED BY
3/23	DATE REVISED
	JK
	CALCULATED/DESIGNED BY
	CHECKED BY
5/22	JK

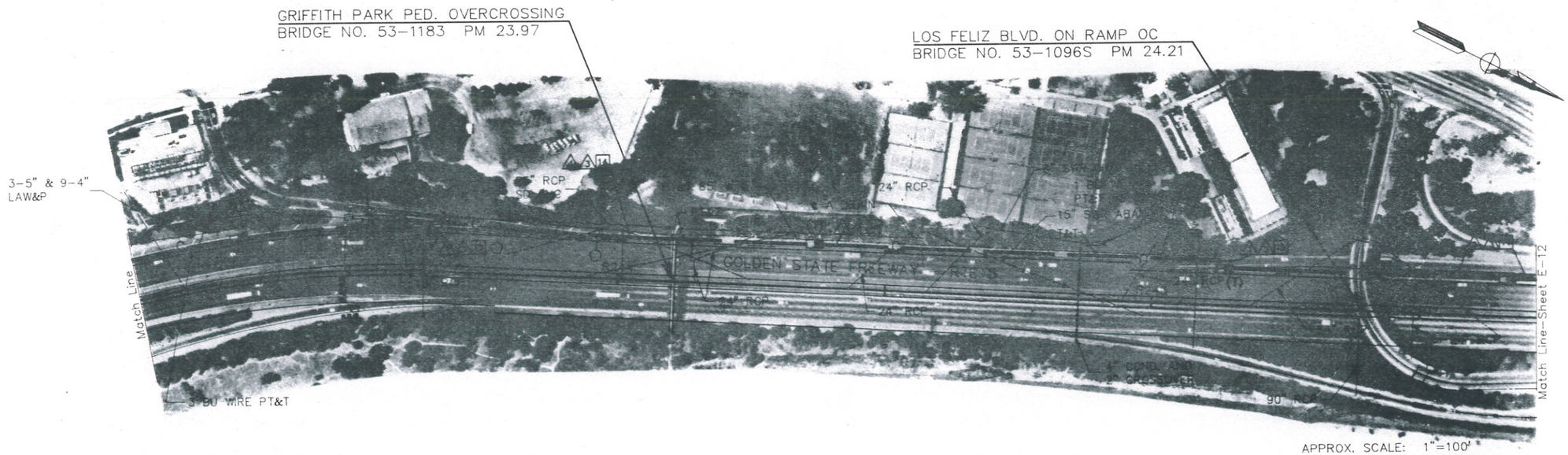
DESIGN OVERSIGHT
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

05/14/92 HLN
116634E11.DWG



CONDUCTOR SCHEDULE				
CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 3	RUN 8
50P22 CABLE	PHONE LINES	1		
6P19 CABLE	PHONE LINES			1
48SMFO CABLE	MUX VID/DATA	1		
8MMFO CABLE	SHORT HAUL VIDEO	1		
	CONDUIT SIZE	4" (N)	4" (N)	2" (N)



APPROX. SCALE: 1"=100'

REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

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 AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-11

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

CU 07387 EA 116634

FORM DC-OE-92-PF (REV. 3/88)

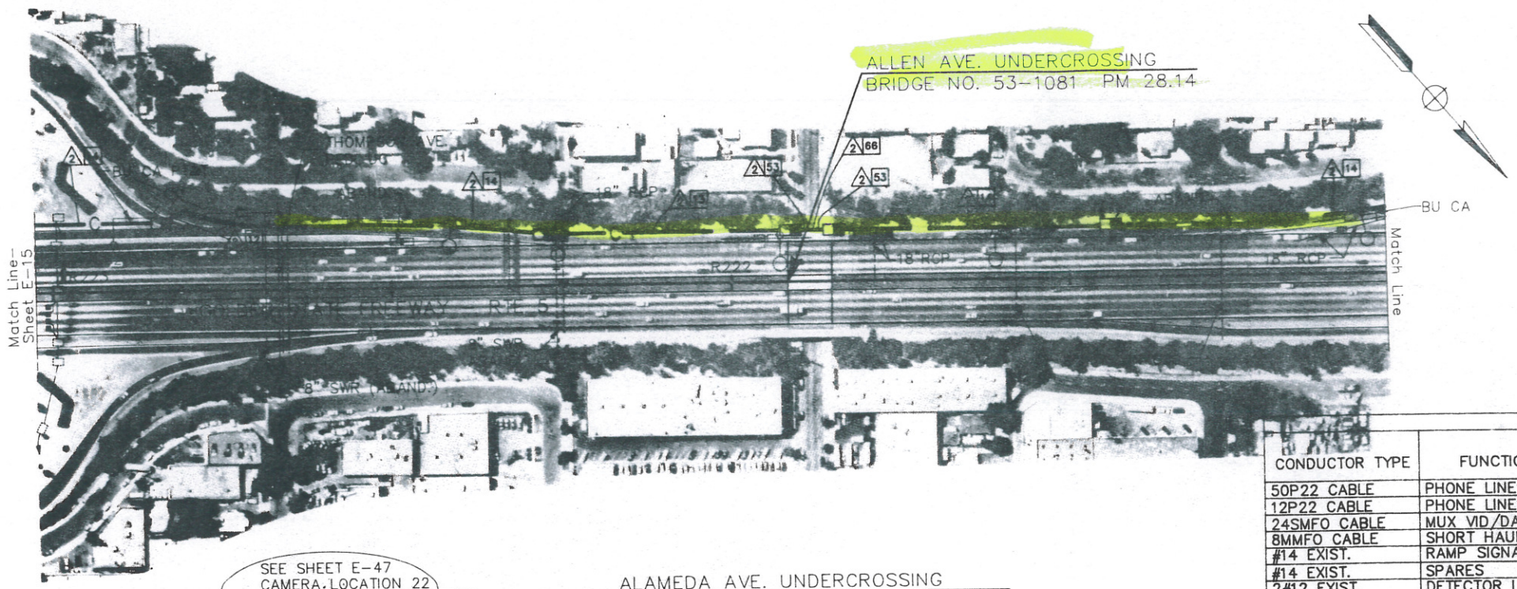
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/46.2,S0.1	38	153

Joseph A. Kwak
REGISTERED ELECTRICAL ENGINEER

8-31-92
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOSEPH A. KWAK — No. 10991 — Exp. 6/30/95 — STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
16700 VALLEY VIEW AVE., SUITE 260
LA MIRADA, CA 90638
IN ASSOCIATION WITH:
EBASCO SERVICES INCORPORATED
KATZ, OKITSU & ASSOCIATES
WAGNER ENGINEERING & SURVEY, INC.
CONTROL DESIGN SYSTEMS



CONDUCTOR SCHEDULE

CONDUCTOR TYPE	FUNCTION	RUN 2	3	9	30	31	32	33	34	35	36	37	38	39	40
50P22 CABLE	PHONE LINES	1	1(N)												
12P22 CABLE	PHONE LINES			1	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)		1(N)	
24SMFO CABLE	MUX VID/DATA	1	1(N)												
8MMFO CABLE	SHORT HAUL VIDEO	1	1(N)												
#14 EXIST.	RAMP SIGNAL										3		3		3
#14 EXIST.	SPARES										3		3		3
2#12 EXIST.	DETECTOR LOOP				4	2		2	4	5	8	8		8	
#10 EXIST.	COMMON										1		1		1
#8 EXIST.	SERVICE												2		2
4#18 EXIST.	SHIELDED TEL. CABLE				2	2	2	2	2	2					
	CONDUIT SIZE	4" (N)	4"	2" (N)	2"	2"	2"	2"	2"	2"	2¼"	2"	2"	2¼"	2¼"

APPROX. SCALE: 1"=100'
REFERENCE GRADUATIONS ARE AT APPROX. 500' INTERVALS
REFERENCE CALIBRATIONS INDICATE APPROXIMATE
RELATIVE DISTANCE IN THOUSANDS OF FEET.

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 AND CONFLICTING UTILITIES ONLY

CCTV AND COMMUNICATIONS SYSTEM (LAYOUT)

E-16

DATE	REVISED BY	DATE REVISED
	JK	5/22
CALCULATED/DESIGNED BY		
CHECKED BY	JK	3/23

DESIGN OVERSIGHT
GLORIA GWYNNE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

11663E16.DWG HLN 05/15/92

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

CU 07387 EA 116634

FORM DC-OE-92-PF (REV. 3/88)