

INFORMATION HANDOUT

**For Contract No. 07-3X9404
At 07-LA-5,10,14,60,91, etc.-Var**

**Identified by
Project ID 0713000331**

MATERIALS INFORMATION

Fiber Optic As-Built Drawings on Route 5, 110, 118, and 605

3-MAR-1992 14156 07000

DEPARTMENT OF TRANSPORTATION
CALIFORNIA
TRAFFIC DESIGN
GREGORY B DAMICO

DESIGNED BY	CF
REVISOR	10/92
DATE	4/92
REVISION	10
CHECKED BY	10
DATE	4/92
REVISION	

GENERAL NOTES:

1. CCTV LOCATION PLANS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE AND GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUIT. THE LOCATION OF ITEMS NOT DIMENSIONED ARE APPROXIMATIONS ONLY. THE OPTIMUM LOCATIONS SHALL BE DETERMINED AT THE PROJECT SITE AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED.
2. CONDUITS BEING PLACED TO EXISTING RAMP METER CONTROLLERS, CMS CONTROLLERS, AND TELEPHONE COMPANY/CALTRANS DEMARCATION BOXES TERMINATE IN EXISTING ADJACENT PULL BOX. IF NONE EXIST, PLACE CALTRANS PULL BOX 5 OR 5(T), AS LOCATION WARRANTS AND AS DIRECTED BY THE ENGINEER.
3. ALL 2" AND 4" POLYVINYL CHLORIDE CONDUIT SHALL BE CONSIDERED RIGID NON-METALLIC CONDUIT.

CONDUIT AND CONDUCTOR SCHEDULE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
CAMERA VIDEO INTERFACE CABLE																				1
PAN/TILT CONTROL CABLE																				1
LENS CONTROL CABLE																				1
CAMERA POWER CABLE																				1
CAMERA GROUND CABLE																				1
SINGLE MODE FIBERS		2	2	72	72	72	12	6	12											2
MULTI MODE FIBERS							6	18	6	6	2									6
COPPER TRUNK CABLE TWISTED PAIR							25	100		50	50									1
2 PAIR COMMUNICATION DISTRIBUTION CABLE							2	2	2	2	2	1								1
INNER DUCT				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CONDUIT DIAMETER (INCHES)	(MT) 4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

LEGEND (SHEETS E-1 THROUGH E-74)

- NX NO CROSSCONNECT
- 2W 2-WIRE CIRCUIT
- 4W 4-WIRE CIRCUIT (4WTO)
- FXS FOREIGN EXCHANGE SUBSCRIBER
- FXO FOREIGN EXCHANGE OFFICE
- CCTV CAMERA LOCATION (100 SCALE)
- CCTV CAMERA AND POLE
- SPLICE BOX SEE E-48 AND E-49
- 2 1/2' x 4' x 3' PULL BOX SEE E-48 AND E-49
- EXISTING CONTROLLER CABINET WITH CIRCUIT IDENTIFICATION (FOR INFORMATION ONLY)
- CCTV 334 CABINET
- COMMUNICATION CONDUIT
- POWER SERVICE CONDUIT
- EXISTING TELEPHONE DEMARCATION CABINET WITH CIRCUIT IDENTIFICATION (FOR INFORMATION ONLY)
- EXISTING 4-INPUT 4-WIRE AUDIO BRIDGE (TELLABS 4445) LOCATED IN CONTROLLER CABINET (XXX INDICATES CABINET NUMBER)
- TELEPHONE BRIDGE DUAL 5-WAY ACTIVE BRIDGE (X INDICATES SHELF NUMBER)
- SURGE PROTECTOR
- EQUIPMENT GROUND
- CIRCUIT BREAKER
- DUPLEX RECEPTACLE
- EXISTING DETECTOR LOOPS
- VIDEO SWITCH KEYPAD
- CAMERA CONTROL KEYPAD
- MONITOR RACK
- EQUIPMENT RACK
- OPTICAL TO ELECTRICAL
- ELECTRICAL TO OPTICAL
- MULTIMODE FIBER
- CCTV IDENTIFICATION NUMBER: PLACE ON STRUCTURE WITH RAISED OR RECESSED FIGURES OR ON POLE ABOVE 10', IN 3" CHARACTERS
 - SA 069 (SANTA ANA, PM)
 - SA 500 (SANTA ANA, SPUR, PM)
 - HO 012 (HOLLYWOOD, PM)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.8/16.9, 0.0/1.8	31	133

5/29/92
REGISTERED CIVIL ENGINEER
3-15-93
PLANS APPROVAL DATE
DeLeuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

AS BUILT 118604
Contract No. 07-
Resident Engineer: *[Signature]*
Completion Date: September 17, 1997

**CCTV COMMUNICATION SYSTEM
CONDUIT AND CONDUCTOR
SCHEDULE AND LEGEND**

NO SCALE

E-1

CU 07387

EA 119601

FOR EXISTING UTILITIES
SEE SHEET U 1

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 NON PAVED AREA.
 2. INSTALL CONDUIT INSIDE CURB IN CONCRETE PAVEMENT.
 3. INSTALL CONDUIT OUTSIDE CURB IN NON PAVED AREA.
 4. JACK CONDUIT UNDER FREEWAY.
 5. SEE DRAWING FOR CAMERA LOCATION 30 FOR POWER WIRING TO BE PROVIDED IN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 101	5.8/6.9, 0.0/1.8	32	133

Thomas M. Wilson 4/17/92
 REGISTERED CIVIL ENGINEER

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. 6/30/196
 CIVIL
 STATE OF CALIFORNIA

SEE SHEET E-50
CAMERA LOCATION 30
NO LOC 24

53 0622F PM 0157
53 0622G PM 0157
53 0622L PM 0157
53 0622R PM 0157

53 0621 UC
PM 0176

$\Delta = 21^\circ$
 $R = 4'$
 $Arc = 1.5'$

$\Delta = 29^\circ$
 $R = 4'$
 $Arc = 2.0'$

53 0623G UC PM 0145
53 0623L UC PM 0145
53 0623R UC PM 0145

$\Delta = 77^\circ$
 $R = 4'$
 $Arc = 5.4'$

$\Delta = 82^\circ$
 $R = 4'$
 $Arc = 5.7'$

SPLICE BOX 0151
330' W/O C
FIGUEROA ST

PULL BOX 0142
650' W/O C
GRAND AVE

PULL BOX 0139
270' W/O C
GRAND AVE

53 0103S OC PM 0142

BOSTON ST

180+00

53 0240H UC
PM 0163
SPLICE BOX 0166
435' W/O C
BEAUDRY AVE
SET 4-7-94
BY P.M.

FIGUEROA ST-UC
SEE BR. DETAILS BR. NO.
53-623L

PULL BOX 0152
430' W/O C
FIGUEROA ST
SET 4-1-94
BY P.M.

$\Delta = 95^\circ$
 $R = 4'$
 $Arc = 6.6'$

$\Delta = 63^\circ$
 $R = 4'$
 $Arc = 4.5'$

53 0102K OC
PULL BOX 0141
575' W/O C
GRAND AVE
MARIN CO. SET BOX
BY M. VERMILION
& P. BURET 5-2-94

PM 0140
PULL BOX 0140
345' W/O C
GRAND AVE

$\Delta = 69^\circ$
 $R = 4'$
 $Arc = 4.8'$

$\Delta = 90^\circ$
 $R = 4'$
 $Arc = 6.3'$

AS BUILT
Contract No. 07-118604
Resident Engineer: **Luke Nguyen**
Completion Date: September 17, 1997

COMMUNICATION ROUTING PLAN

SCALE 1" = 100'

E-2

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



CU 07387

EA 118601



DESIGNED BY	REVISOR	DATE	REVISION
EC	BY	DATE	REVISION

DESIGN OVERSIGHT: GLORIA GWYNNE
 TRAFFIC DESIGN

BASE
CL-4
SHEET
CC-4

FOR EXISTING UTILITIES
SEE SHEET U 3

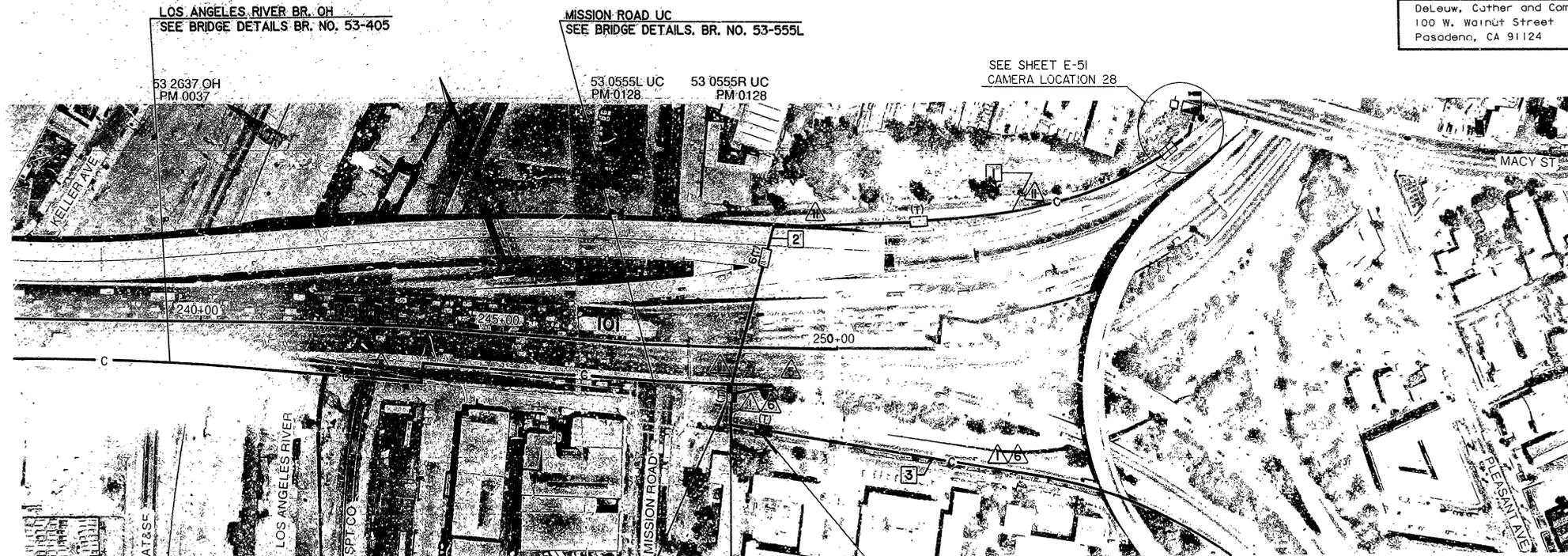
- PROJECT NOTES:
1. INSTALL CONDUIT IN NON-PAVED AREA
 2. INSTALL CONDUIT IN CALTRANS R/W UNDER MISSION RD UC
 3. INSTALL BEHIND CURB IN NON-PAVED AREA.

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

DIST. COUNTY	ROUTE	POST MILES TO AL PROJECT	SHEET NO	TOTAL SHEETS
07 LA	5, 101	6.81/6.9, 0.01/0.8	34	133

Steven M. Wilson 4/17/92
 REGISTERED CIVIL ENGINEER
 3-15-93
 PLANS APPROVAL DATE
 DeLew, Cuthler and Company
 100 W. Walnut Street
 Pasadena, CA 91124

T.H. WILSON
 No. 43560
 Exp. 6/30/96
 CIVIL
 STATE OF CALIFORNIA



MISSION ROAD UC
SEE BRIDGE DETAILS, BR. NO. 53-555L

LOS ANGELES RIVER BR. OH
SEE BRIDGE DETAILS BR. NO. 53-405

SEE SHEET E-51
CAMERA LOCATION 28

SPLICE BOX 0124
145' E/O ϕ
MISSION RD

$\Delta = 84^\circ$
R = 4'
Arc = 5.7'

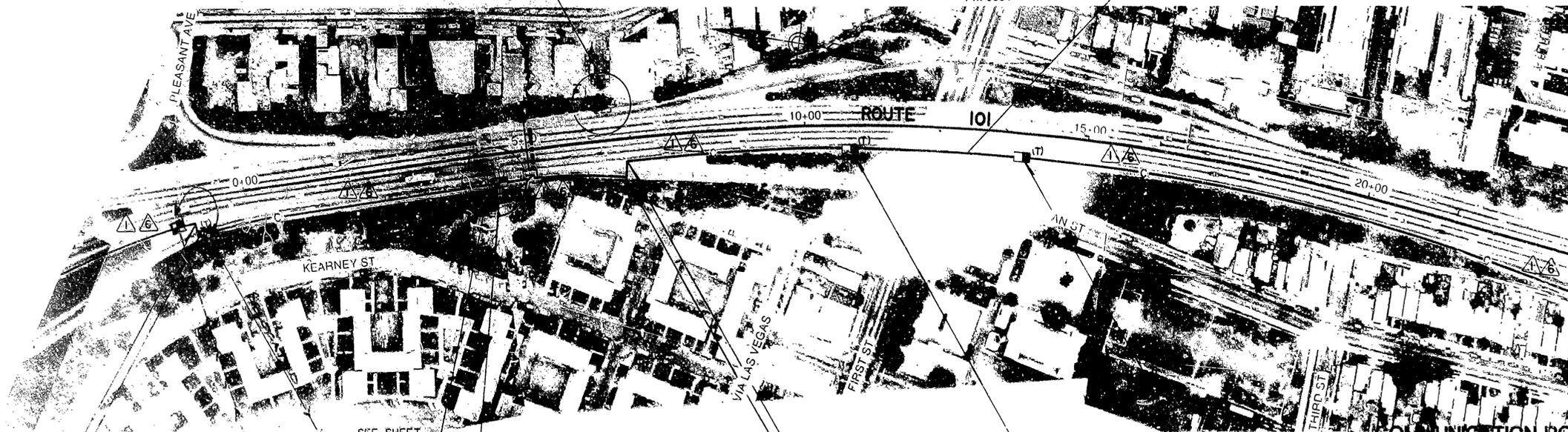
SPLICE BOX 0123
170' E/O ϕ
MISSION RD

SEE DETAIL "A"
SHEET E-52
FOR CAMERA LOCATION 27

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FIRST ST UC
SEE BRIDGE DETAILS BR. NO. 53-582

AS BUILT 118604
 Contract No. 07-**118604**
 Resident Engineer: **Luke Nguyen**
 Completion Date: **September 17, 1997**



$\Delta = 90^\circ$
R = 4'
Arc = 6.3'

PULL BOX 0115
1250' N/O ϕ
1st ST

SEE SHEET C-1, E-52
FOR CAMERA LOCATION 27

SPLICE BOX 0101
790' N/O ϕ
1st ST

$\Delta = 90^\circ$
R = 4'
Arc = 6.3'

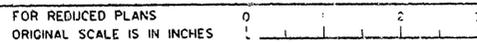
$\Delta = 83^\circ$
R = 4'
Arc = 5.8'

PULL BOX 0094
153' N/O ϕ
1st ST

PULL BOX 0090
150' S/O ϕ
1st ST

COMMUNICATION ROUTING PLAN
SCALE 1" = 100'

E-4



LU 07387

EA 118601



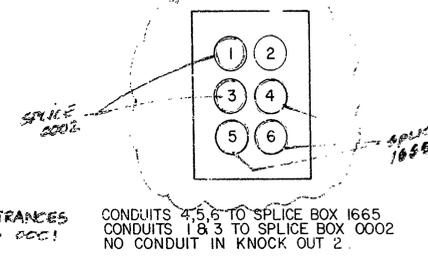
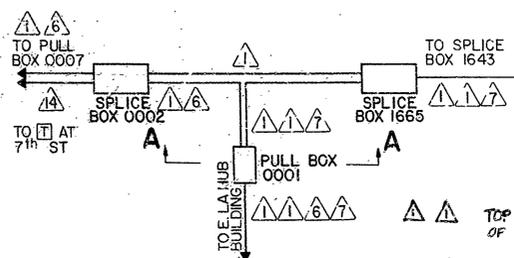
DESIGN OVERSIGHT: GLORIA GWYNNE
 DEPARTMENT OF TRANSPORTATION
 TRAFFIC DESIGN

DATE	REVISED BY
D.R.	DATE REVISED
CALCULATED/DESIGNED BY	EC.
CHECKED BY	

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.



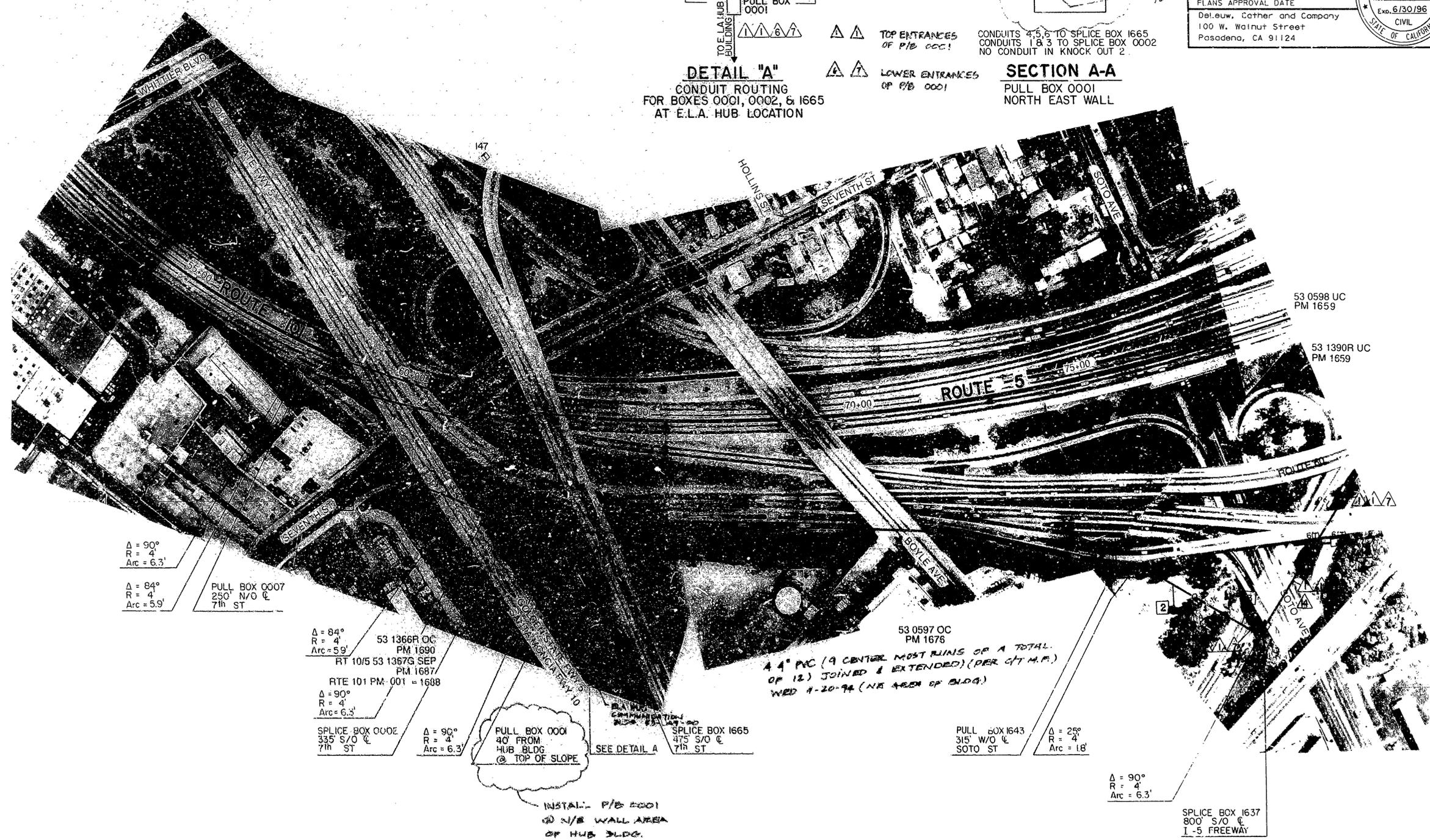
DETAIL "A"
CONDUIT ROUTING FOR BOXES 0001, 0002, & 1665 AT E.L.A. HUB LOCATION

SECTION A-A
PULL BOX 0001 NORTH EAST WALL

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

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

PLANS APPROVAL DATE: 1-15-93
Dolew, Gathar and Company
100 W. Walnut Street
Pasadena, CA 91124



$\Delta = 90^\circ$
 $R = 4'$
 $Arc = 6.3'$

$\Delta = 84^\circ$
 $R = 4'$
 $Arc = 5.9'$

PULL BOX 0007
250' N/O \angle
7th ST

$\Delta = 84^\circ$
 $R = 4'$
 $Arc = 5.9'$

53 1366R OC
PM 1690
RT 10/5 53 1367G SEP
PM 1687
RTE 101 PM 001 = 1688

$\Delta = 90^\circ$
 $R = 4'$
 $Arc = 6.3'$

SPLICE BOX 0002
335' S/O \angle
7th ST

$\Delta = 90^\circ$
 $R = 4'$
 $Arc = 6.3'$

PULL BOX 0001
40' FROM HUB BLDG
@ TOP OF SLOPE

SPLICE BOX 1665
475' S/O \angle
7th ST

PULL BOX 1643
315' W/O \angle
SOTO ST

$\Delta = 25^\circ$
 $R = 4'$
 $Arc = 18'$

$\Delta = 90^\circ$
 $R = 4'$
 $Arc = 6.3'$

SPLICE BOX 1637
800' S/O \angle
I-5 FREEWAY

4.4' P/C (9 CENTRAL MOST RINS OF A TOTAL OF 12) JOINED & EXTENDED (PER C/T M.F.)
WED 4-20-94 (NE AREA OF BLDG.)

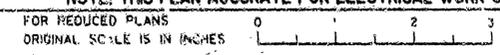
INSTALL P/B 0001 @ N/E WALL AREA OF HUB BLDG.

AS BUILT
Contract No. 07-118604
Resident Engineer: **Luke Nguyen**
Completion Date: September 17, 1997

COMMUNICATION ROUTING PLAN

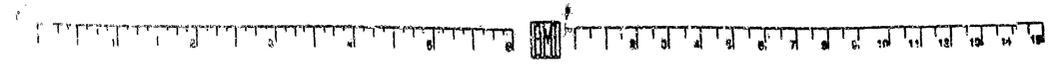
SCALE 1" = 100'
E-6

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



CU 07387

EAL18601



DESIGN OVERSIGHT: GLORIA GWYNE
TRAFFIC DESIGN

REVISOR: DATE
DESIGNED BY: DATE
CHECKED BY: DATE

SHEET NO. 36 OF 133

CALCULATED/DESIGNED BY: _____
 CHECKED BY: _____
 DATE: _____
 REVISIONS: _____
 DATE REVISED: _____
 DESIGN OVERSIGHT: GLORIA GWYNNE
 TRAFFIC DESIGN

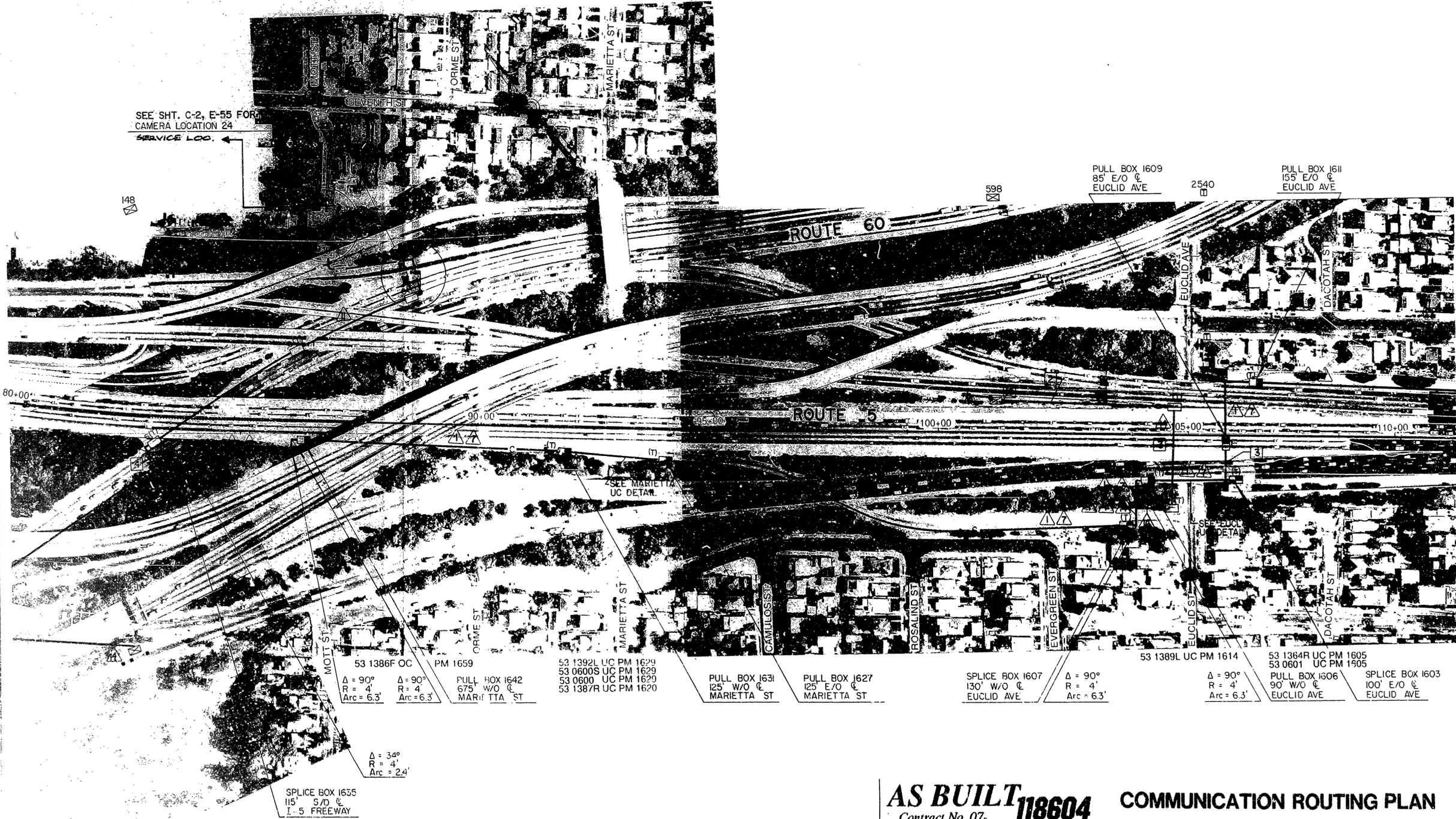
FOR EXISTING UTILITIES
SEE SHEET U 6

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

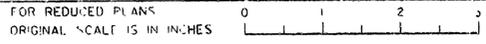
- PROJECT NOTES:
1. INSTALL CONDUIT IN SLOPED EMBANKMENT.
 2. INSTALL CONDUIT IN NON PAVED AREA.
 3. INSTALL CONDUIT IN SLOPED EMBANKMENT UNDER EUCLID ST. UC STRUCTURE.
 4. JACK CONDUIT UNDER FREEWAY.
 5. SEE DRAWING FOR CAMERA LOCATION 24.
 6. FOR POWER WIRING TO BE PROVIDED IN Δ

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 101	6.8116.0, 0.011.8	37	133

Thomas M. Wilson 4/17/92
 REGISTERED CIVIL ENGINEER
 3-15-93
 PLANS APPROVAL DATE
 DeLeuw, Cather and Company
 100 W. Walnut Street
 Pasadena, CA 91124



NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY



AS BUILT 118604 COMMUNICATION ROUTING PLAN
 Contract No. 07-**118604**
 Resident Engineer: **Luke Nguyen**
 Completion Date: **September 17, 1997**

E-7
SCALE 1" = 100'

CU 07387 EA 118601

FOR EXISTING UTILITIES
SEE SHEET U 8.

- PROJECT NOTES: 1 JACK CONDUIT UNDER FREEWAY.
2 INSTALL COMMUNICATION DISTRIBUTION CABLE IN EXISTING CONDUIT.

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

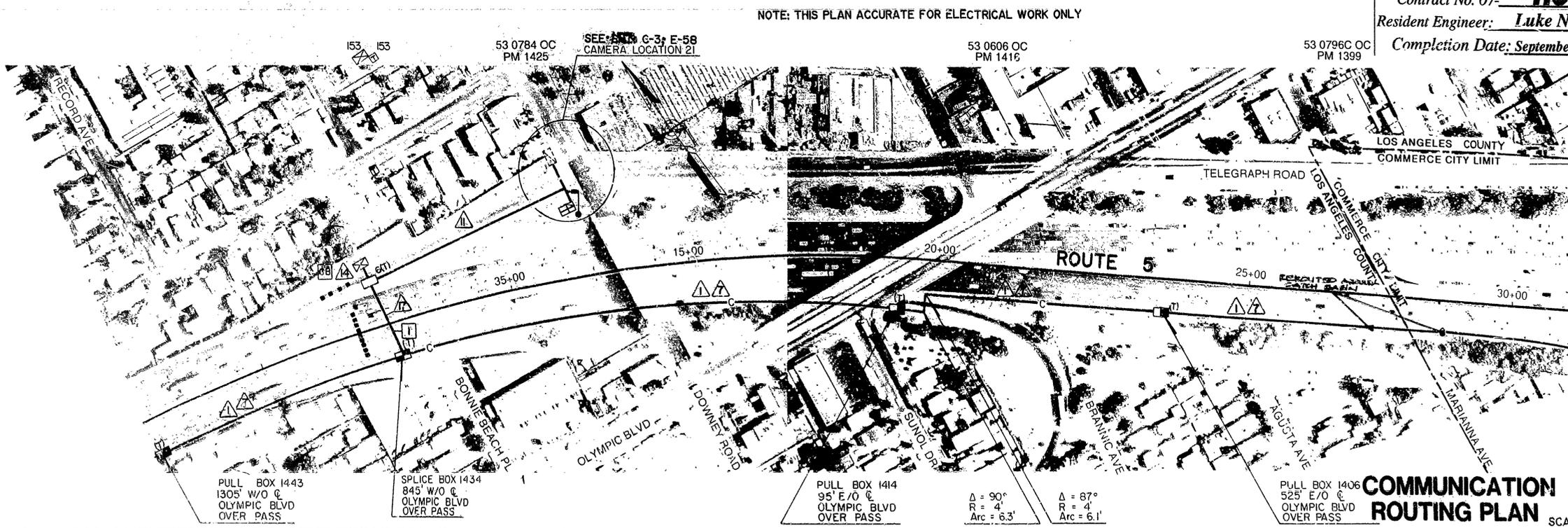
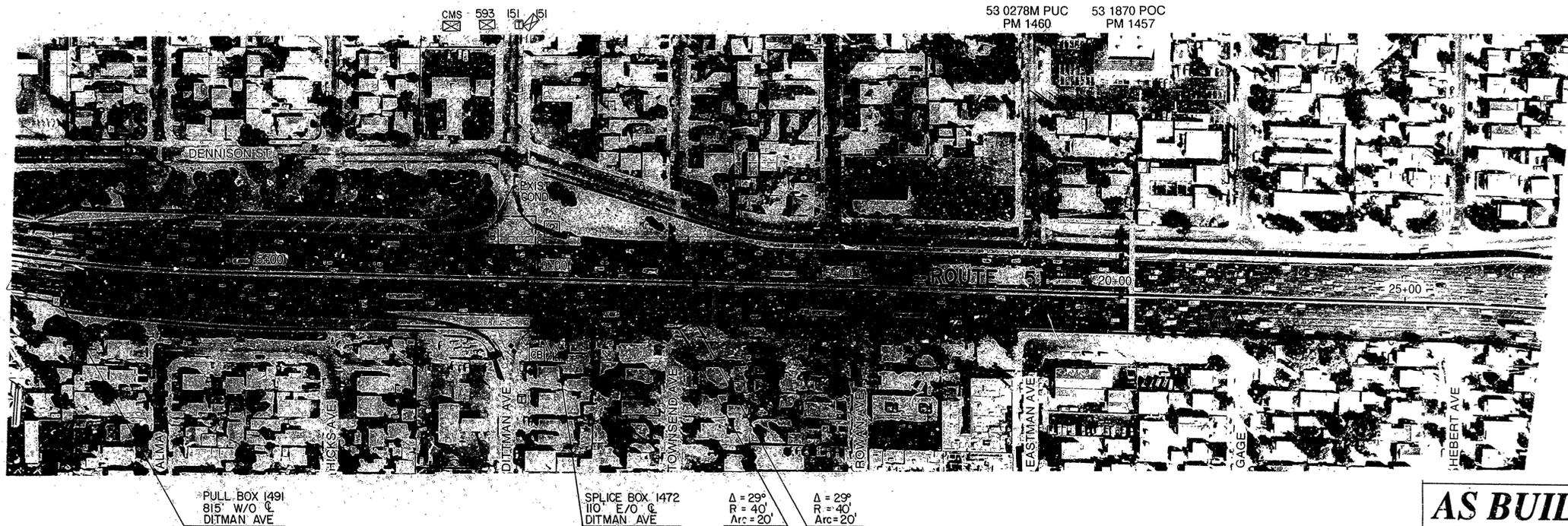
DIST	COUNTY	ROUTE	POST MILES TO TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 101	6.8/16.9, 0.0/1.8	39	133

REGISTERED CIVIL ENGINEER
4/17/92
i.m. WILSON
No. 43560
Exp. 6/30/95
CIVIL
STATE OF CALIFORNIA

3-15-93
PLANS APPROVAL DATE
DeLeuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124

DESIGN OVERSIGHT
GLORIA GWYNNE

DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN



AS BUILT
Contract No. 07-118604
Resident Engineer: Luke Nguyen
Completion Date: September 17, 1997

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

HOLLYWOOD, SANTA ANA FREEWAY

CU 07387

EA 118601

COMMUNICATION ROUTING PLAN
E-9
SCALE 1" = 100'



SHEET BASE
CC-II (CL 1)

FOR EXISTING UTILITIES
SEE SHEET U 9

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

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6,816.9, 0,011.8	40	133

Thomas M. Wilson 4/17/92
 REGISTERED CIVIL ENGINEER

3-15-93
 PLANS APPROVAL DATE

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

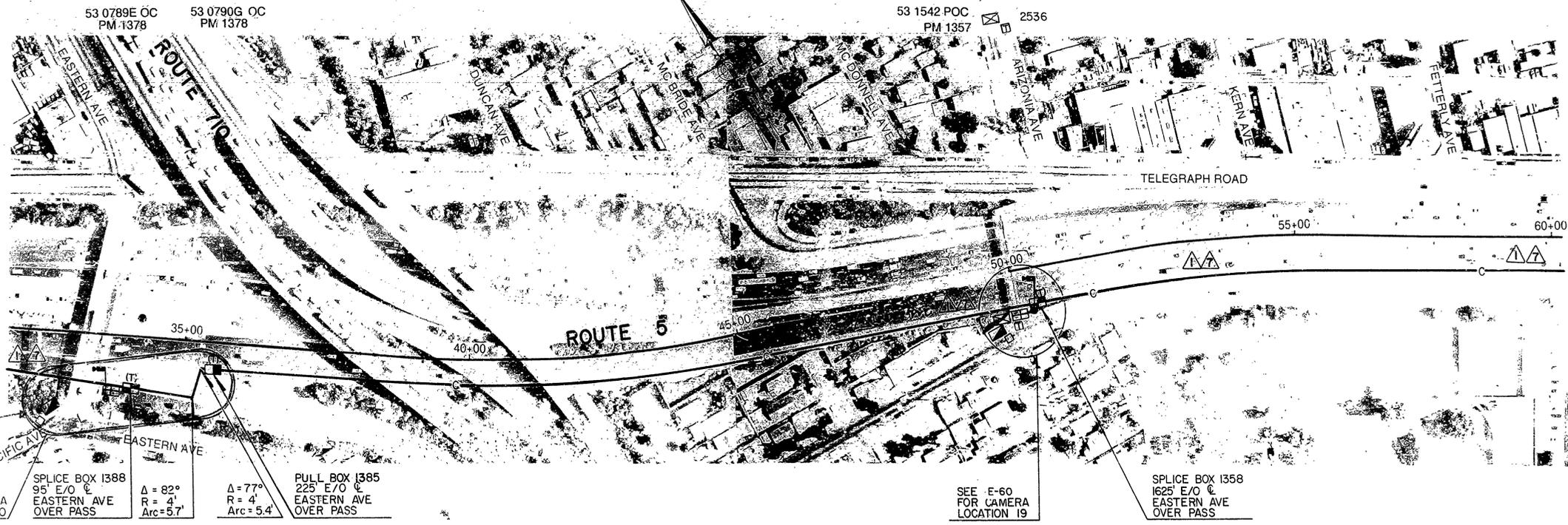
T.M. WILSON
 No. 43560
 Exp. 6/30/96
 CIVIL
 STATE OF CALIFORNIA

DESIGN OVERSIGHT
GLORIA GWYNNE

REVISOR
DATE
REVISIONS

CHECKED BY
E.C.

DESIGNED BY
E.C.



SEE E-59 FOR CAMERA LOCATION 20

SPLICE BOX 1388 95' E/O EASTERN AVE OVER PASS

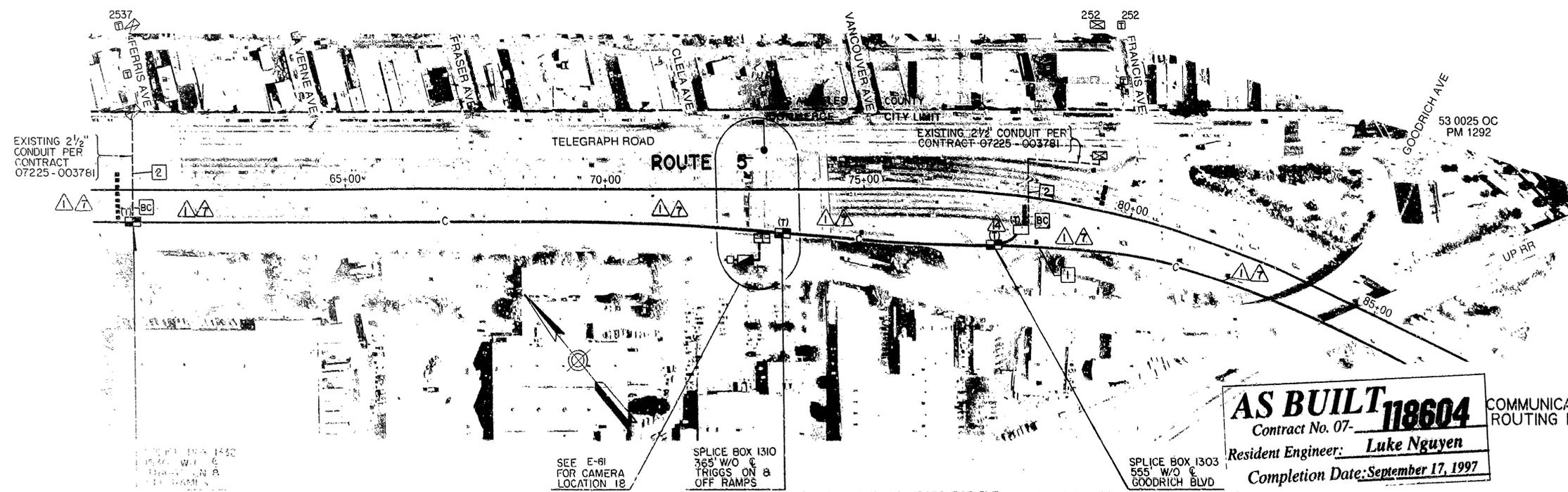
$\Delta = 82^\circ$
 $R = 4'$
 $Arc = 5.7'$

$\Delta = 77^\circ$
 $R = 4'$
 $Arc = 5.4'$

PULL BOX 1385 225' E/O EASTERN AVE OVER PASS

SEE E-60 FOR CAMERA LOCATION 19

SPLICE BOX 1358 1625' E/O EASTERN AVE OVER PASS



EXISTING 2 1/2" CONDUIT PER CONTRACT 07225-003781

EXISTING 2 1/2" CONDUIT PER CONTRACT 07225-003781

SEE E-61 FOR CAMERA LOCATION 18

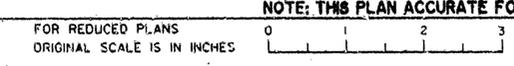
SPLICE BOX 1310 365' W/O TRIGGS ON & OFF RAMP

SPLICE BOX 1303 555' W/O GOODRICH BLVD

AS BUILT 118604 COMMUNICATION ROUTING PLAN
 Contract No. 07-
 Resident Engineer: **Luke Nguyen**
 Completion Date: **September 17, 1997**

E-10
SCALE 1" = 100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY



CU 07387

EA 118601

SHEET
CC-12 CL12

FOR EXISTING UTILITIES
SEE SHEET U 10

PROJECT NOTES: 1. ADD THREE COMMUNICATION DISTRIBUTION CABLES
AND ONE 1-FIBER MULTIMODE FIBER CABLE IN EXISTING
CONDUIT.

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.8/16.9, 0.0/1.8	41	133

REGISTERED CIVIL ENGINEER
4/17/92
T.M. WILSON
No. 43560
Exp. 6/30/1996
CIVIL
STATE OF CALIFORNIA

3-15-93
PLANS APPROVAL DATE
DeLeuw, Cather and Company
100 W. Walnut Street
Pasadena, CA 91124

DESIGN OVERSIGHT
GLORIA GWYNNE

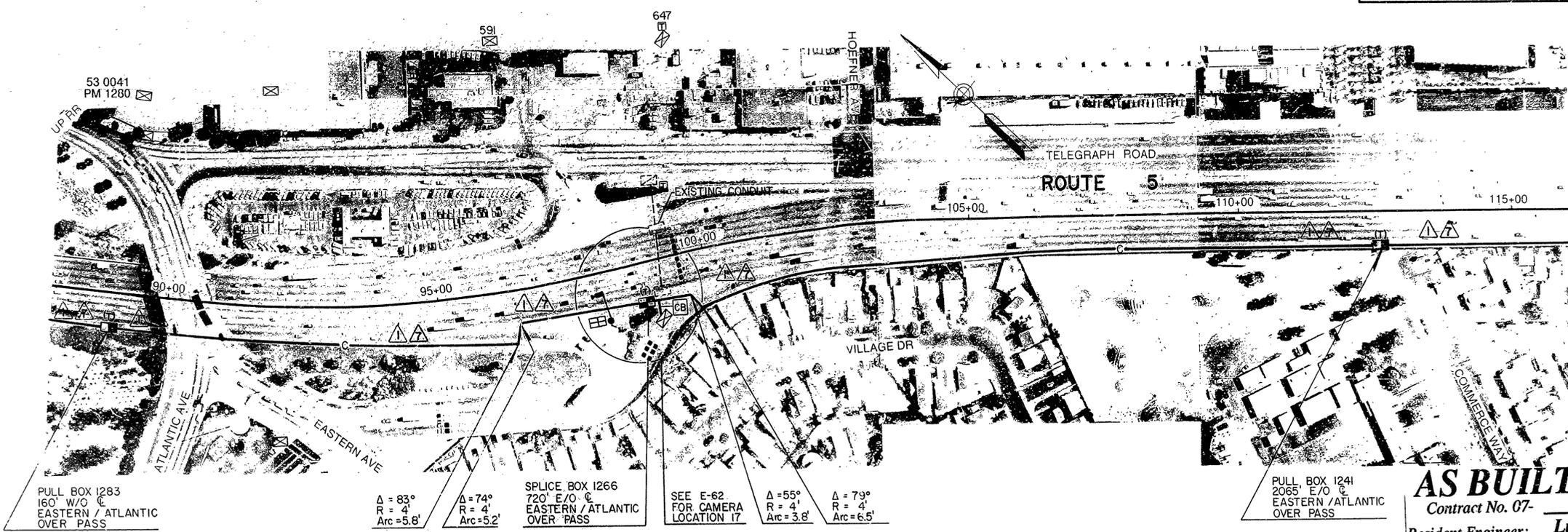
CHECKED BY
EC.

DESIGNED BY
CALCULATED BY

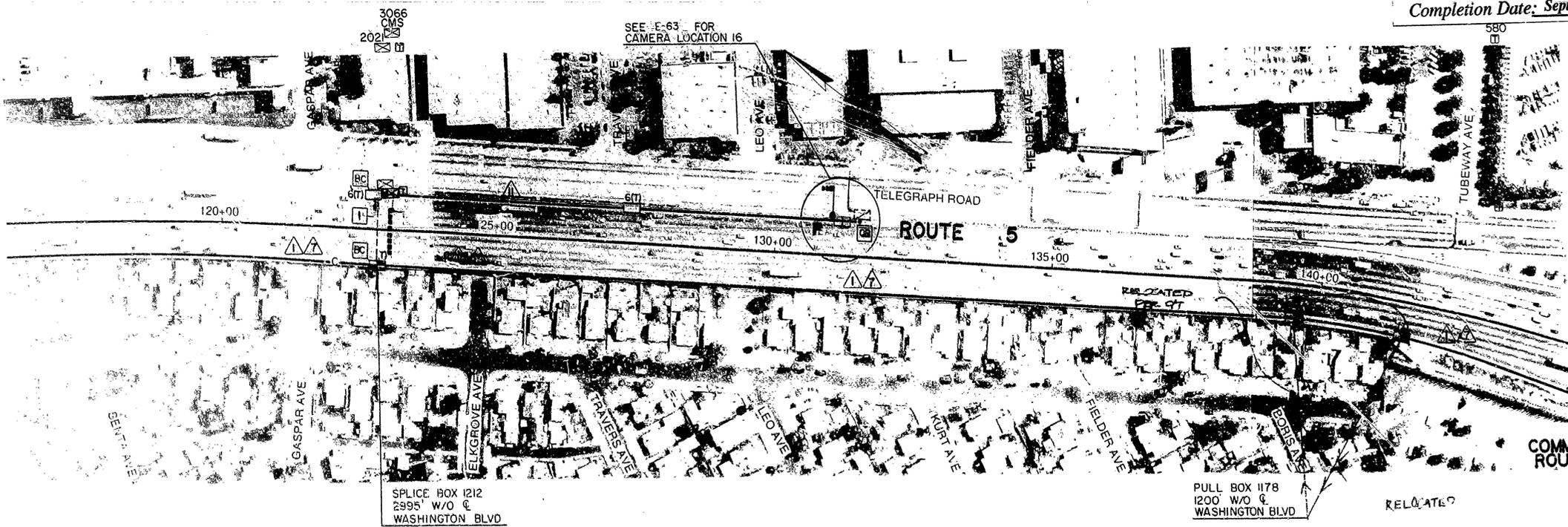
DATE
DR.

REVISOR
DATE

REVISION
DATE

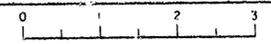


AS BUILT 118604
Contract No. 07-
Resident Engineer: **Luke Nguyen**
Completion Date: **September 17, 1997**



COMMUNICATION
ROUTING PLAN
E-11
SCALE 1"=100'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



CU 07387

EA118601



SHEET
CC-13 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.8/16.9, 0.0/1.8	42	133

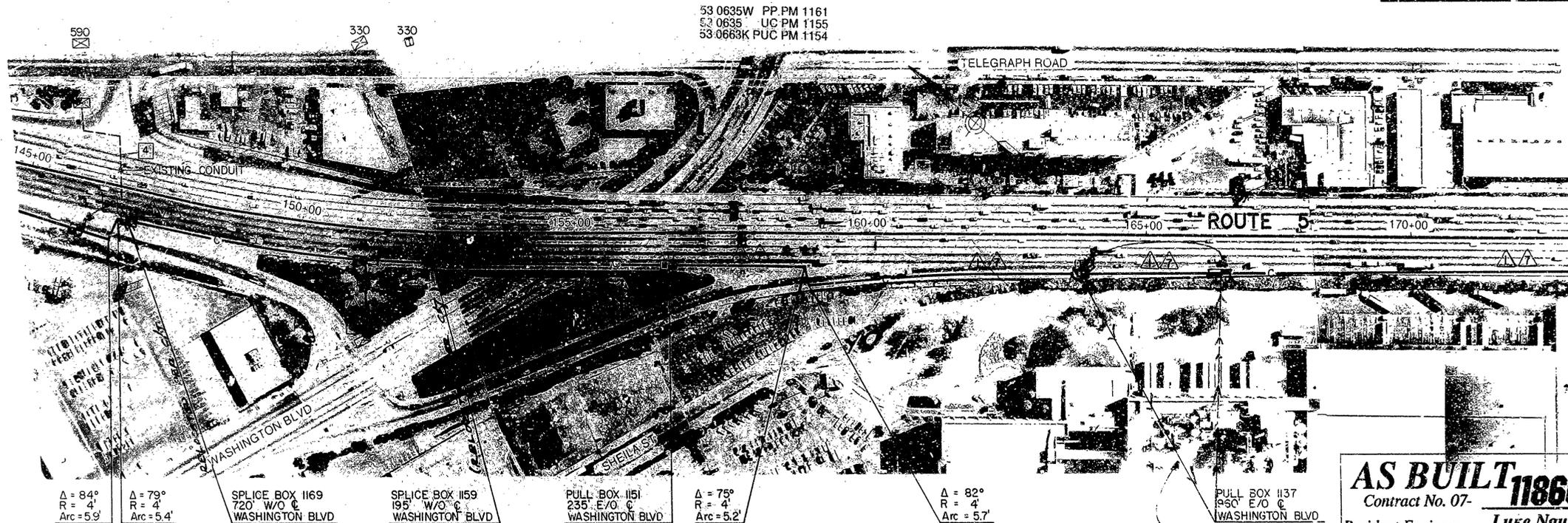
Thomas W. Wilson 4/17/97
 REGISTERED CIVIL ENGINEER
 3-15-93
 PLANS APPROVAL DATE
 DeLeuw, Cottier and Company
 100 W. Walnut Street
 Pasadena, CA 9124

FOR EXISTING UTILITIES
SEE SHEET U 11

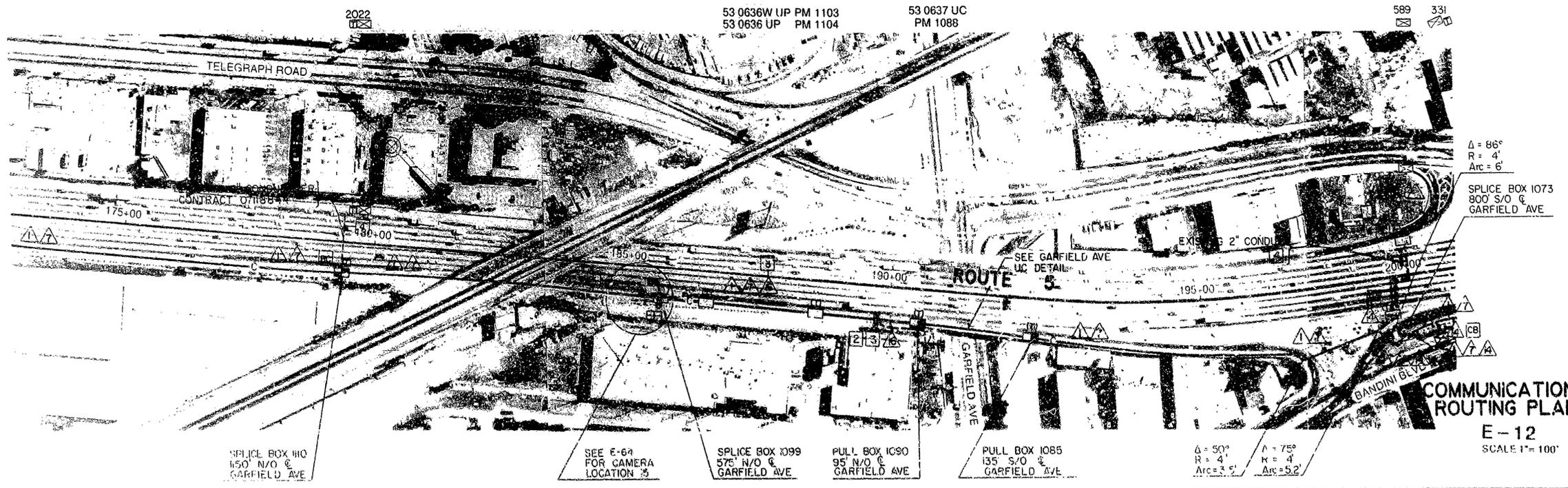
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

- PROJECT NOTES:
1. INSTALL CONDUIT OUTSIDE ETW AND BEHIND GUARD RAILING IN NON PAVED AREA.
 2. INSTALL CONDUIT IN SLOPED EMBANKMENT
 3. SEE DRAWING FOR CAMERA LOCATION 15 FOR POWER WIRING TO BE PROVIDED IN
 4. ADD ONE 1 COMMUNICATION DISTRIBUTION CABLE IN EXISTING CONDUIT.

REVISOR: DATE REVISION BY DATE REVISION BY
 EC. CHECKED BY
 DESIGN OVERSIGHT: GLORIA GWYNNE
 TRAFFIC DESIGN

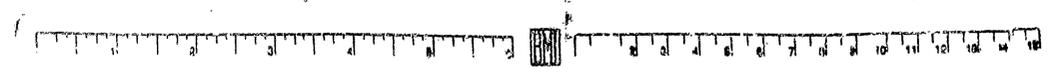


AS BUILT 118604
 Contract No. 07-
 Resident Engineer: **Luke Nguyen**
 Completion Date: September 17, 1997



FOR REDUCED PLANS ORIGINAL SCALE IS 1/4 INCHES

CU 07387 EA 118601



SHEET CC-12 CL 14

FOR EXISTING UTILITIES
SEE SHEET U 12

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.816,9, 0.011,8	43	133

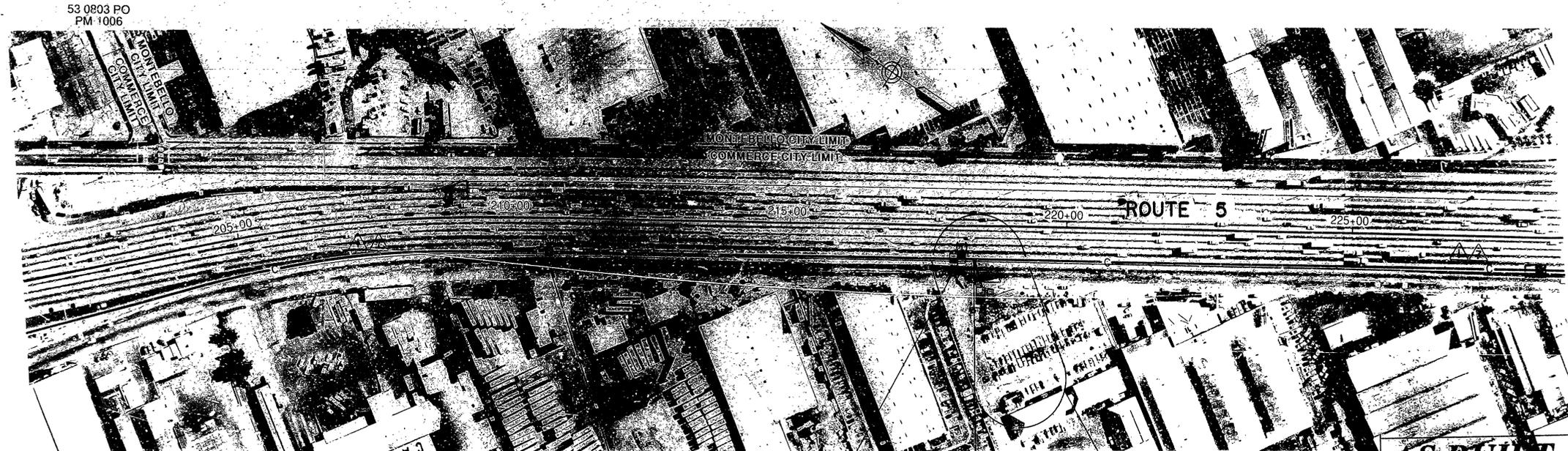
John M. Wilson 4/17/92
 REGISTERED CIVIL ENGINEER
 3-15-93
 PLANS APPROVAL DATE
 DeLeuw, Cather and Company
 100 W. Walnut Street
 Pasadena, CA 91124

DESIGN OVERSIGHT
GLORIA GWYNNE

REVISOR: DATE REVISION

DESIGNED BY: DATE

CHECKED BY: DATE



P/B 1020 PER C/T
ADDED P/B PER C/T
DUE TO DISTANCE
BTWN BOXES ALSO
DUE TO DELETION
OF P/B'S @ HOPE ST.
ON / RAMP
SHEET E-2

PULL BOX 1054
1810' S/O @
GARFIELD AVE

SPLICE BOX 1041
2520' S/O @
GARFIELD AVE

$\Delta = 69^\circ$
 $R = 4'$
 $Arc = 48'$

SEE EOC
CONDUIT DETAIL SHT E-47

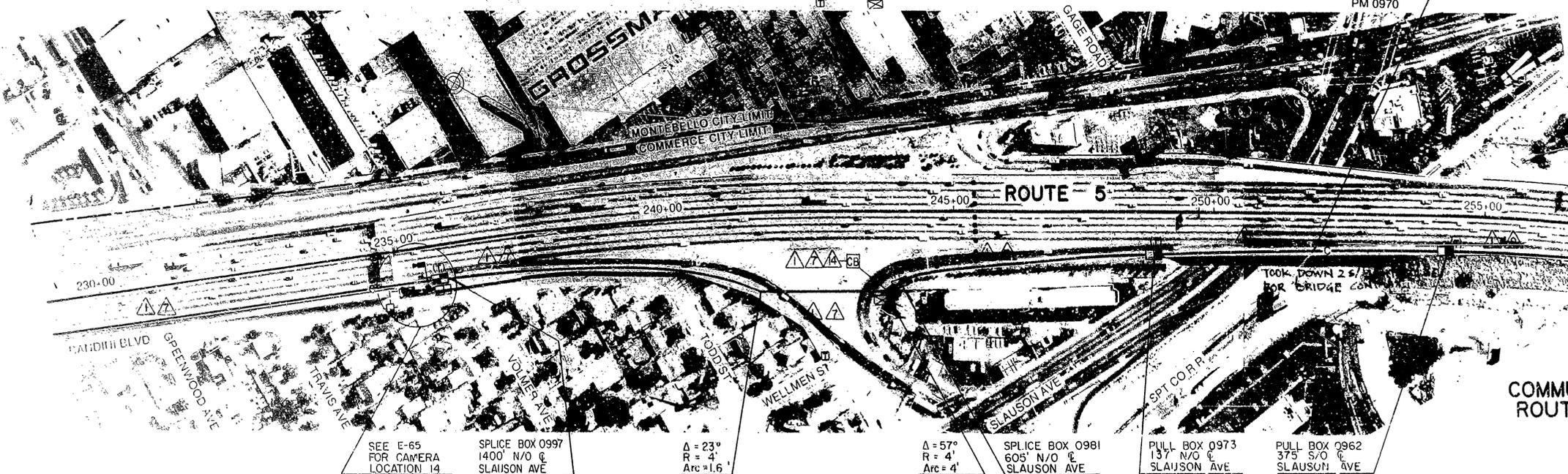
STUBBED 1-4" PVC TOWARDS
MEDIAN BARRIER. MUST
CORE DRILL BARRIER TO EXTEND

INSTALLED 2 ADDITIONAL STUB-OUTS
@ N/S OF P/B, # 3 STUB-OUTS @
S/S OF P/B PER MIKE FARRON (C/T)
REQUEST

AS BUILT 118604

Contract No. 07-
Resident Engineer: **Luke Nguyen**
Completion Date: **September 17, 1997**

53 0638 UC
PM 0970
SLAUSON AVE OH
SEE BR DETAILS BR NO 53-638



SEE E-65
FOR CAMERA
LOCATION 14

SPLICE BOX 0997
1400' N/O @
SLAUSON AVE

$\Delta = 23^\circ$
 $R = 4'$
 $Arc = 1.6'$

$\Delta = 57^\circ$
 $R = 4'$
 $Arc = 4'$

SPLICE BOX 0981
605' N/O @
SLAUSON AVE

PULL BOX 0973
137' N/O @
SLAUSON AVE

PULL BOX 0962
375' S/O @
SLAUSON AVE

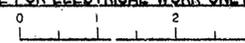
TOOK DOWN 2 S/O
FOR BRIDGE CON

COMMUNICATION
ROUTING PLAN

E-13
SCALE 1" = 100'

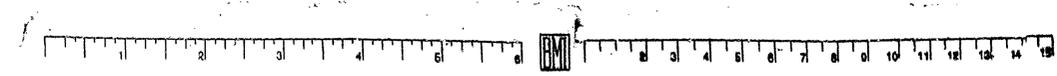
NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



CU 07387

EA118601



SHEET 43 OF 133
CC-15 CL 15

FOR EXISTING UTILITIES
SEE SHEET U 13

PROJECT NOTES: 1. PROVIDE ONE COMMUNICATION DISTRIBUTION CABLE
TO CONTROLLER CABINET IN CONDUIT PROVIDED
WITH CAMERA LOCATION 12.

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

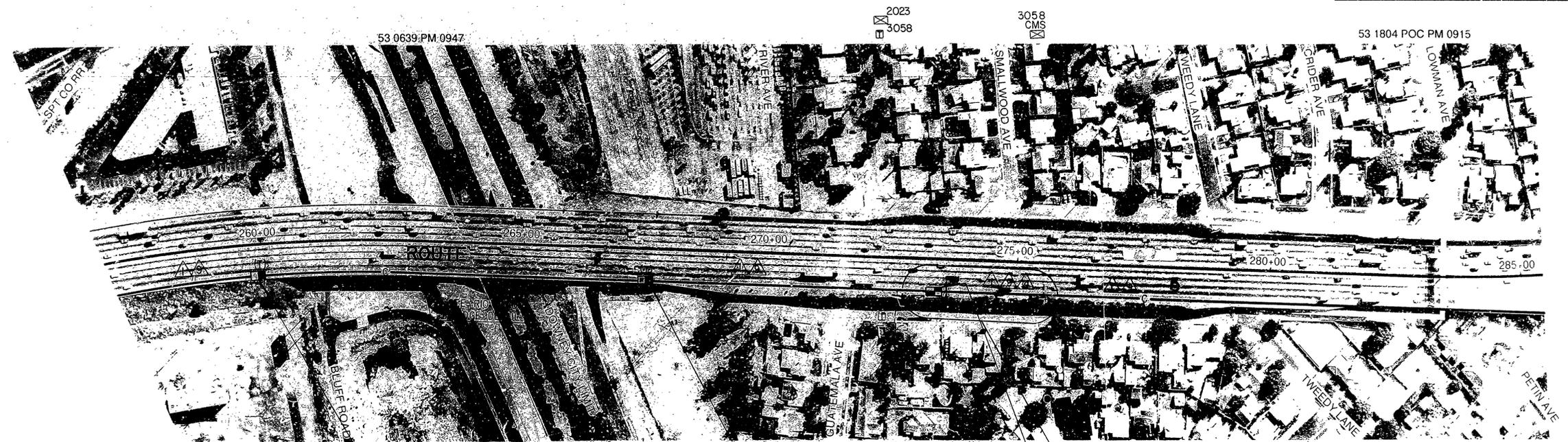
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5.101	6.81/15.9, 0.0/1.8	44	133

John M. Wilson 4/17/92
 REGISTERED CIVIL ENGINEER
 3-15-93
 PLANS APPROVAL DATE
 DeLeuw, Cather and Company
 100 W. Walnut Street
 Pasadena, CA 91124

DESIGN OVERSIGHT
GLORIA GWYNNE

DATE REVISED BY
DATE REVISION

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



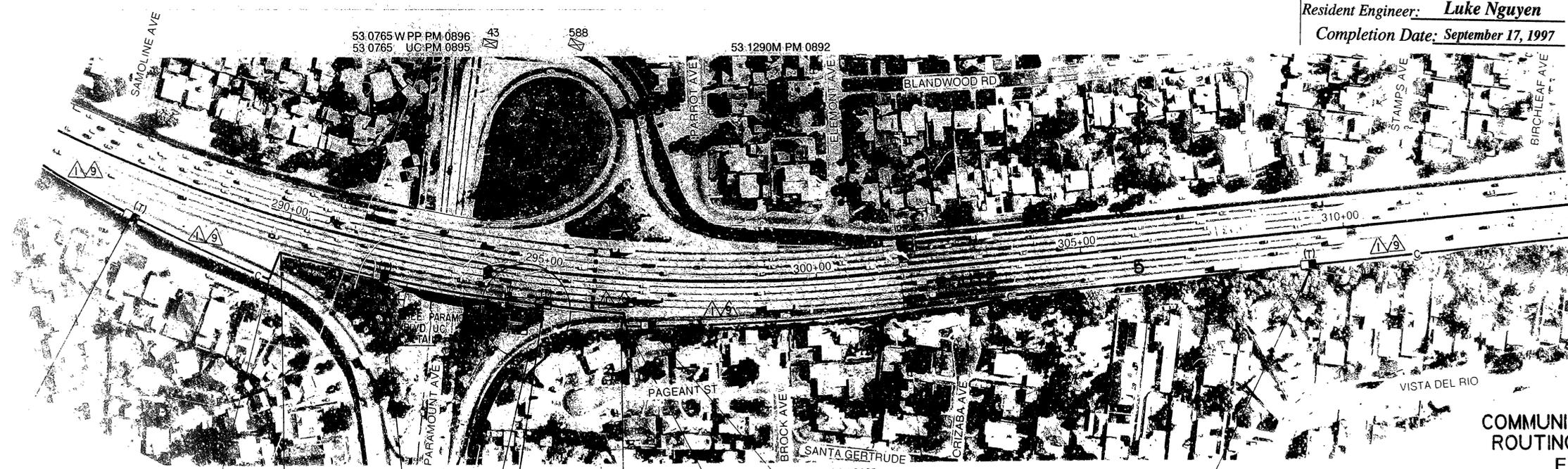
PULL BOX 0954
3095' N/O C
PARAMOUNT BLVD

PULL BOX 0940
2385' N/O C
PARAMOUNT BLVD

SPLICE BOX 0931
1875' N/O C
PARAMOUNT BLVD

SEE SHT C-4, E-66
CAMERA LOCATION 13

AS BUILT 118604
 Contract No. 07-
 Resident Engineer: **Luke Nguyen**
 Completion Date: **September 17, 1997**



PULL BOX 0906
1875' N/O C
PARAMOUNT BLVD

$\Delta = 88^\circ$
 $R = 4'$
 $Arc = 6.1'$

$\Delta = 80^\circ$
 $R = 4'$
 $Arc = 5.6'$

PULL BOX 0897
110' N/O C
PARAMOUNT BLVD

SEE SHT E-67
FOR CAMERA
LOCATION 12

SPLICE BOX 0893
180' E/O C
PARAMOUNT BLVD

$\Delta = 84^\circ$
 $R = 4'$
 $Arc = 5.9'$

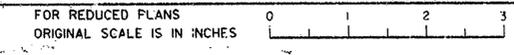
$\Delta = 89^\circ$
 $R = 4'$
 $Arc = 6.2'$

PULL BOX 0888
395' E/O C
PARAMOUNT AVE

PULL BOX 0865
1575' E/O C
PARAMOUNT BLVD

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

COMMUNICATION
ROUTING PLAN
E-14
SCALE 1" = 100'



CU 07387 EA 118601



SHEET BASE PP
CC-16CL 16

DESIGN OVERSIGHT	REVISOR	DATE	REVISION
GLORIA GWYNE			
DESIGNED BY	CHECKED BY	DATE	REVISION
DEPARTMENT OF TRANSPORTATION	TRAFFIC DESIGN		

FOR EXISTING UTILITIES
SEE SHEET U 14

PROJECT NOTES: 1 ADD ONE 1 COMMUNICATION DISTRIBUTION CABLE
IN EXISTING CONDUIT.

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

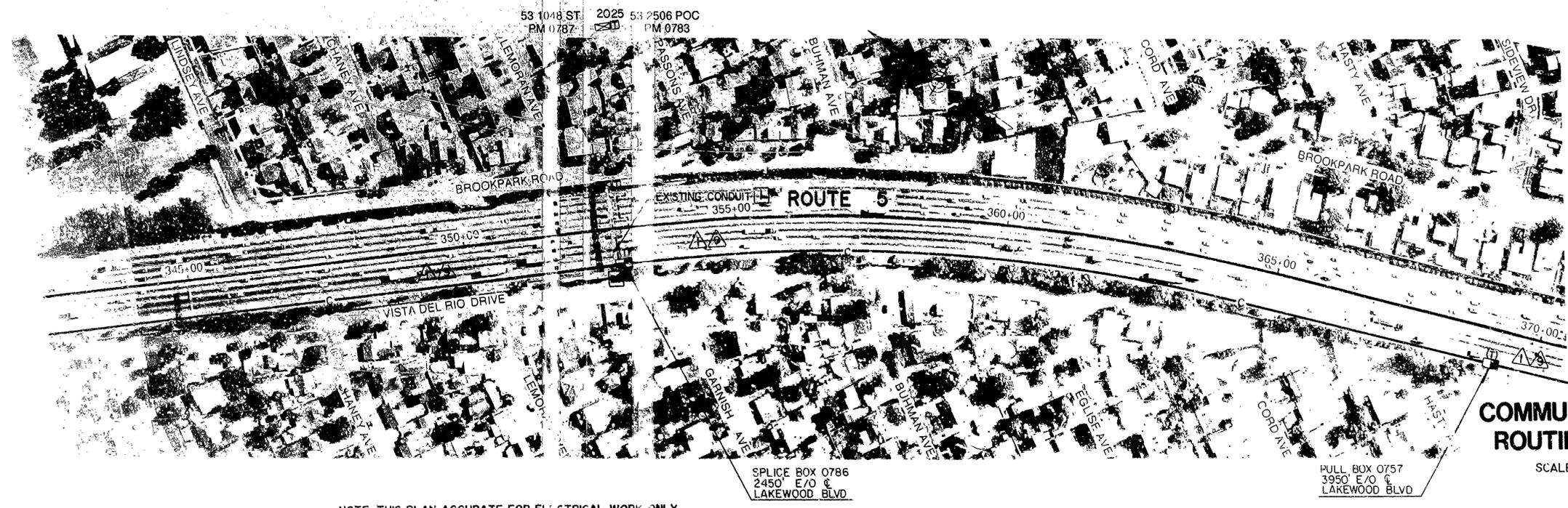
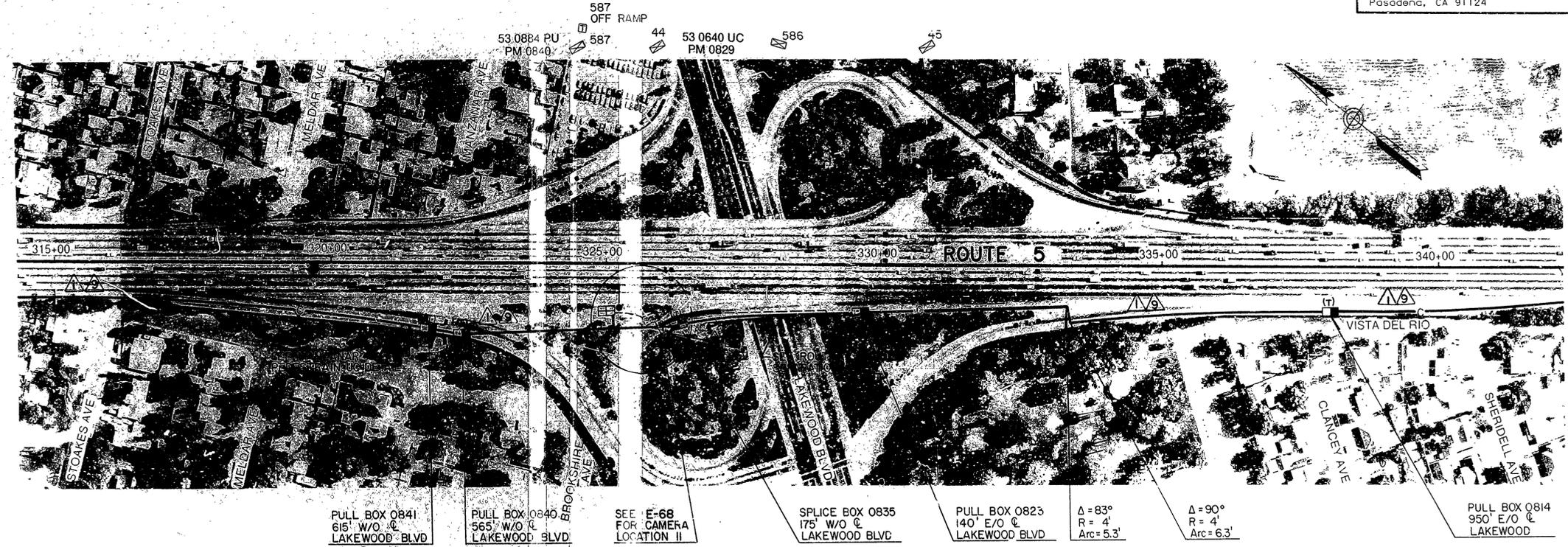
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.8/16.9, 0.0/1.8	45	133

L. M. Wilson 4/17/92
REGISTERED CIVIL ENGINEER

3-15-93
PLANS APPROVAL DATE

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

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



NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

FOR REPRODUCED PLANS
ORIGINAL SCALE IS IN INCHES



COMMUNICATION ROUTING PLAN

SCALE = 1" = 100'

E-15

AS BUILT 118604
Contract No. 07-
Resident Engineer: Luke Nguyen
Completion Date: September 17, 1997

CU 07387

EA 118601

SHEET 17 OF 17

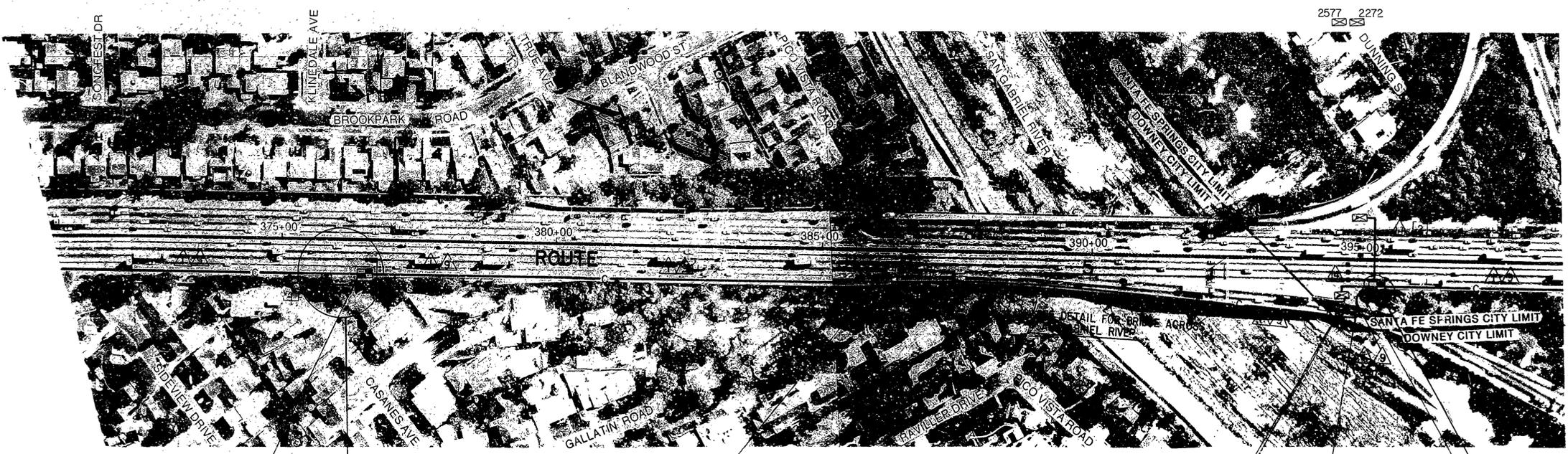
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,101	6.8/16.9, 0.0/1.8	46	133
<p><i>Thomas M. Wilson</i> 5/27/93 REGISTERED CIVIL ENGINEER</p> <p>3-15-93 PLANS APPROVAL DATE</p> <p>DeLew, Cather and Company 100 W. Walnut Street Pasadena, CA 91124</p>					

PROJECT NOTES: 1. INSTALL SEPARATE PULL BOXES FOR POWER AND COMM. CONDUITS.
 2. JACK CONDUIT UNDER FREEWAY
 3. SEE DRAWING FOR CAMERA LOCATION 9. FOR POWER WIRING TO BE PROVIDED IN 1/6

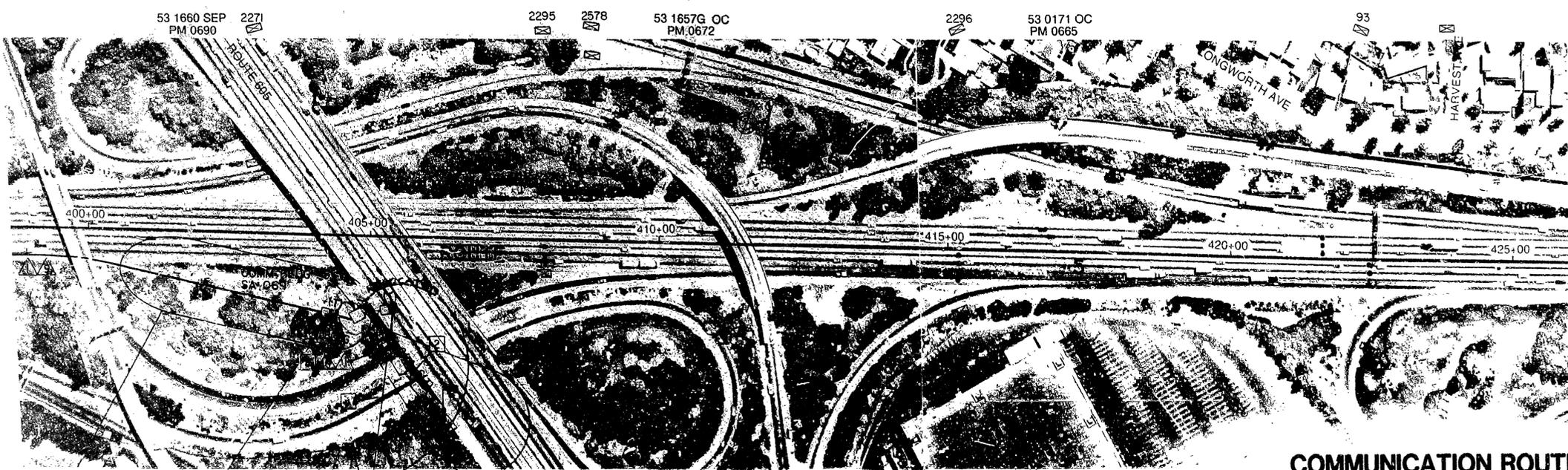
FOR EXISTING UTILITIES SEE SHEET U.15

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

DESIGN OVERSIGHT	GLORIA GWYNNE
CALCULATED/DESIGNED BY	CF
CHECKED BY	5/92L
DATE	REVISOR
D.R.	E.C.
DATE	REVISOR
D.R.	E.C.
DATE	REVISOR
D.R.	E.C.
DATE	REVISOR
D.R.	E.C.
DATE	REVISOR
D.R.	E.C.

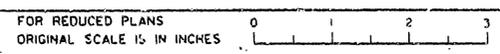


SPLICE BOX 0743 2790' W/O C I-605 FREEWAY
 SEE E-69 FOR CAMERA LOCATION 10
 PULL BOX 0724 1865' W/O C I-605 FREEWAY
 PULL BOX 0709 1025' W/O C I-605 FREEWAY
 $\Delta = 99^\circ$
 $R = 4'$
 $Arc = 6.9'$
 REPLICATED
 $\Delta = 90^\circ$
 $R = 25'$
 $Arc = 35'$
 SPLICE BOX 0699 995' W/O C I-605 FREEWAY



PULL BOX 0693 40' W/WEST WALL 405 COMM BLDG
 PULL BOX 0690 40' E/EAST WALL 605 COMM BLDG
 SEE E-70 FOR CAMERA LOCATION 9

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY



COMMUNICATION ROUTING PLAN

SCALE 1" = 100'

E-16

AS BUILT 118604
 Contract No. 07-118604
 Resident Engineer: Luke Nguyen
 Completion Date: September 17, 1997

CU 07387 EA 118601



SHEET CC-16 CL 18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	110	21.4/30.5	45	109

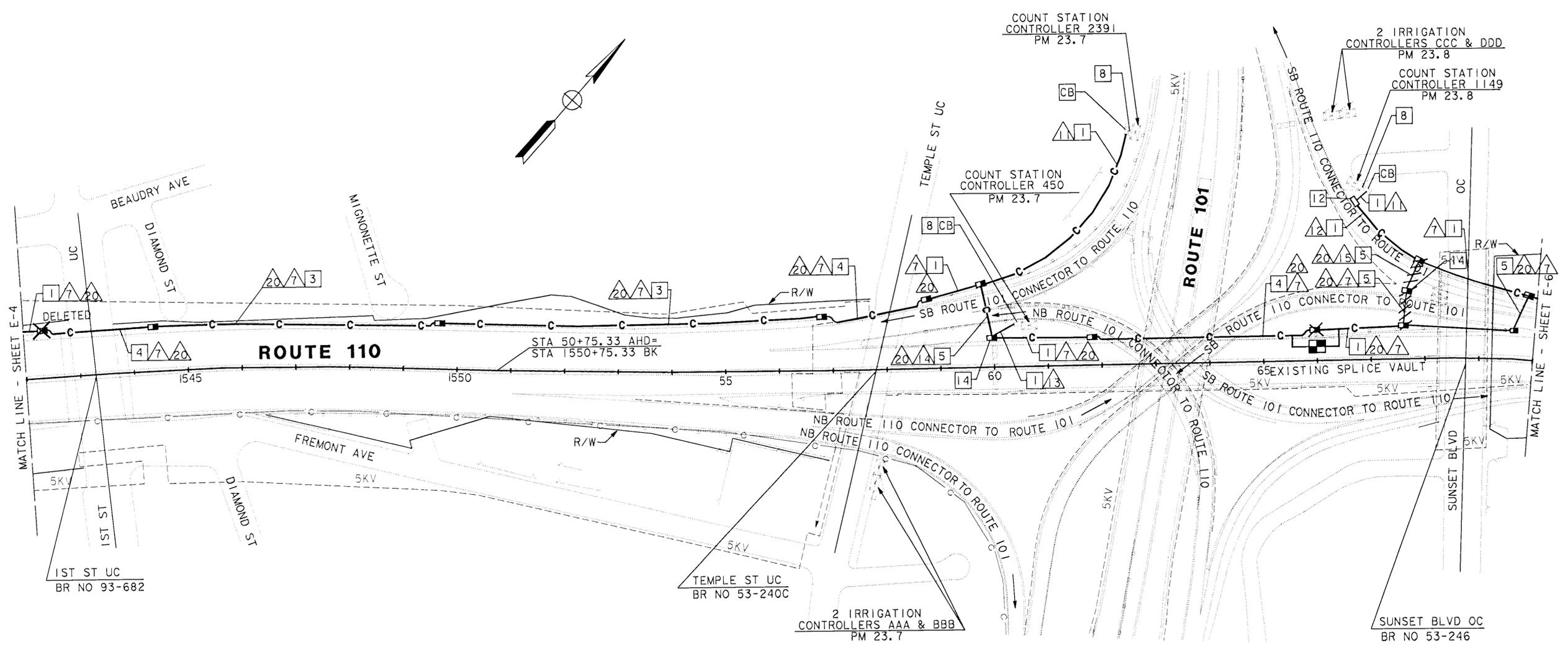
CONDUCTOR SCHEDULE		RUN						
CONDUCTOR TYPE	FUNCTION	7	11	12	13	14	15	20
75P22 CABLE	COMMUNICATION DATA							
6P22 CABLE	CONTROLLER DATA		1	2	3		2	
24SMFO CABLE	DATA/VIDEO NODE TO HUB TRUNK	1				1		1
12SMFO CABLE	CCTV CAMERA TO VIDEO DISTRIBUTION INNERDUCT	1/4	1/4			1/4	1/4	1/4
	CONDUIT SIZE	4"	2"	2"	2"	4"	4"	4"

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.

Pat Sullivan
 REGISTERED CIVIL ENGINEER
 No. C30912
 Exp. 3/31/00
 6-9-97
 PLANS APPROVAL DATE

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.

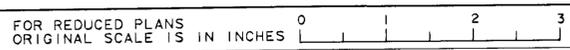
DESIGN OVERSIGHT: PAT SULLIVAN
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 Caltrans



AS-BUILT
 Contract No. 07- 120854
 Resident Engineer: NGUYEN, L.
 Completion Date: 04/24/2001

**LOOP DETECTOR,
 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.



LAST REVISION: 00-00-00
 DATE PLOTTED -> 8-Aug-2001
 TIME PLOTTED -> 10:39

INDEX OF SHEETS

Sheet No. 1	Title and Location Map
" " 2-3	Standard Plans List
" " 4-5	Key Map and Line Index
" " 6-11	Layouts
" " 12-22	Construction Details
" " 23-36	Utility Plans
" " 37-39	Traffic Handling Plans
" " 40-41	Construction Area Signs
" " 42	Summary of Quantities
" " 43	Sign Details
" " 44-116	Electrical Plans
" " 117-122	Revised Standard Plans
" " 123-124	New Standard Plans
" " 125	Revised New Standard Plan

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN LOS ANGELES COUNTY
FROM VENTURA COUNTY LINE
TO ROUTE 118/ 210 SEPARATION

To be supplemented by Standard Plans dated July, 1992

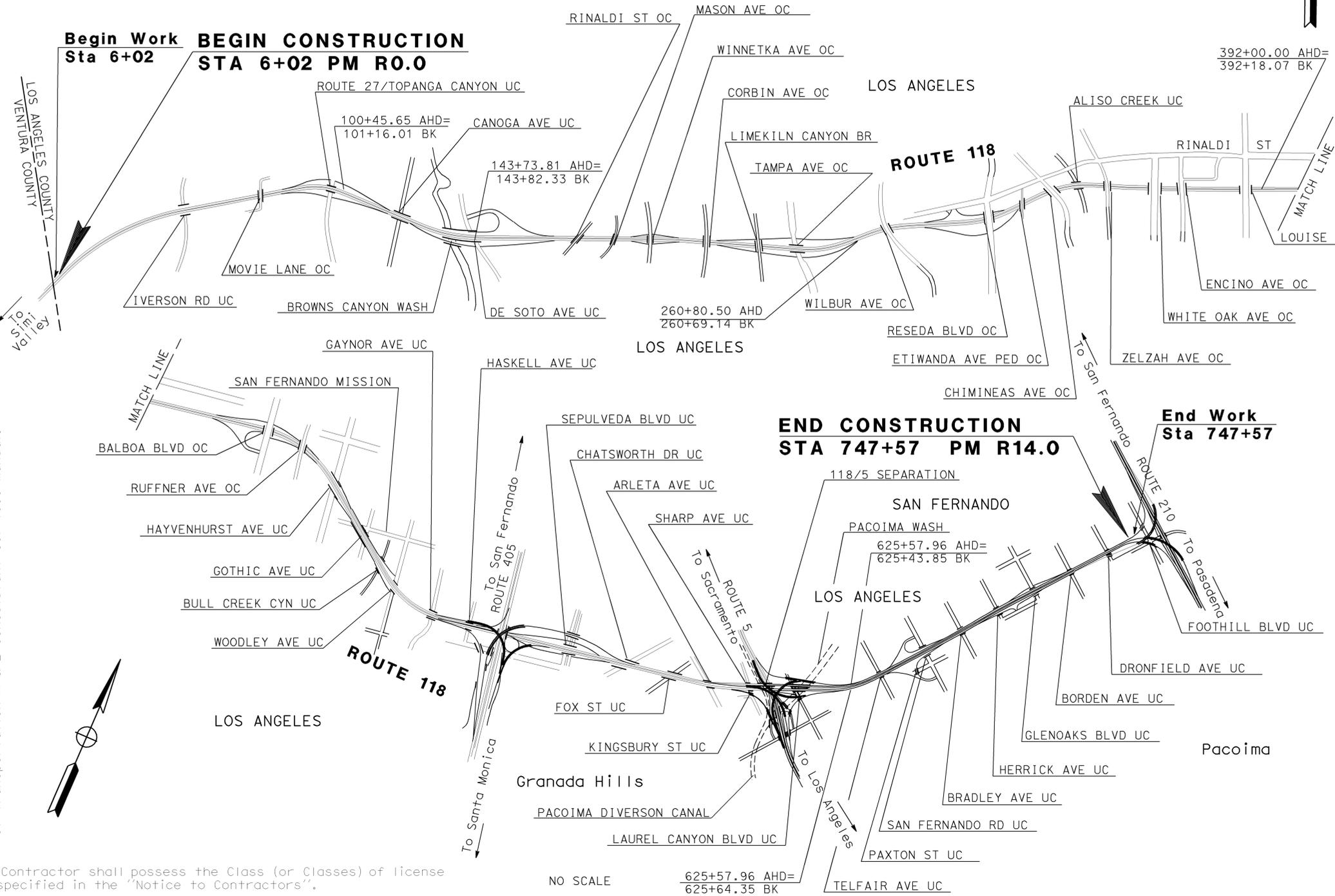
ACNHG-P118(048)E

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	R0.0/R14.0	1	125



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.

Approved as to impact on State facilities and conformance with applicable State standards and practices and that technical oversight was performed as described in the California Department of Transportation A & E Consultant Services Manual.



ARCHIVED PLANS
UNCERTIFIED ASBUILT

END CONSTRUCTION
STA 747+57 PM R14.0

Leo K. Lee
 Project Engineer
 Registered Civil Engineer
 8/15/94



July 22, 1996
 Plans Approval Date

DKS Associates
 1055 West 7th Street, Suite 2850
 Los Angeles, CA 90017
 Contract No. **07-120874**

The Contractor shall possess the Class (or Classes) of license as specified in the "Notice to Contractors".

NO SCALE



USERNAME => s129183
 DGN FILE => 712087a01.dgn

CU 07374

EA 120871

DATE PLOTTED => 19-MAR-2009
 TIME PLOTTED => 14:09

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN						
CONDUCTOR TYPE	FUNCTION	1	3	8	10	11	12	13
50P22 CABLE	COMMUNICATION DATA	1	1					
6P22 CABLE	CONTROLLER DATA			4	3	1	2	2
24SMFO CABLE	NODE LINE	1	1					
12SMFO CABLE	CCTV CAMERA TO VIDEO DISTRIBUTION		1					
	INNERDUCT	1 1/4	1 1/4					
	CONDUIT SIZE	4"	4"	4"	2"	2"	2"	3"

PROJECT NOTES:(THIS SHEET ONLY)

- 15 SEE SHEET C-11 FOR CONDUIT BENEATH SOUND WALL DETAILS.
- 29 SPLICE 6P22 CABLE(S) WITH THE 50P22 CABLE. SEE TWISTED PAIR ASSIGNMENT TABLE, SHEETS E-66 THROUGH E-68.
- 34 INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEETS E-54 AND E-59 FOR DETAILS.

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.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	R0.0/R14.0	53	125

Kenneth D. Camp 8/15/94
 REGISTERED ELECTRICAL ENGINEER



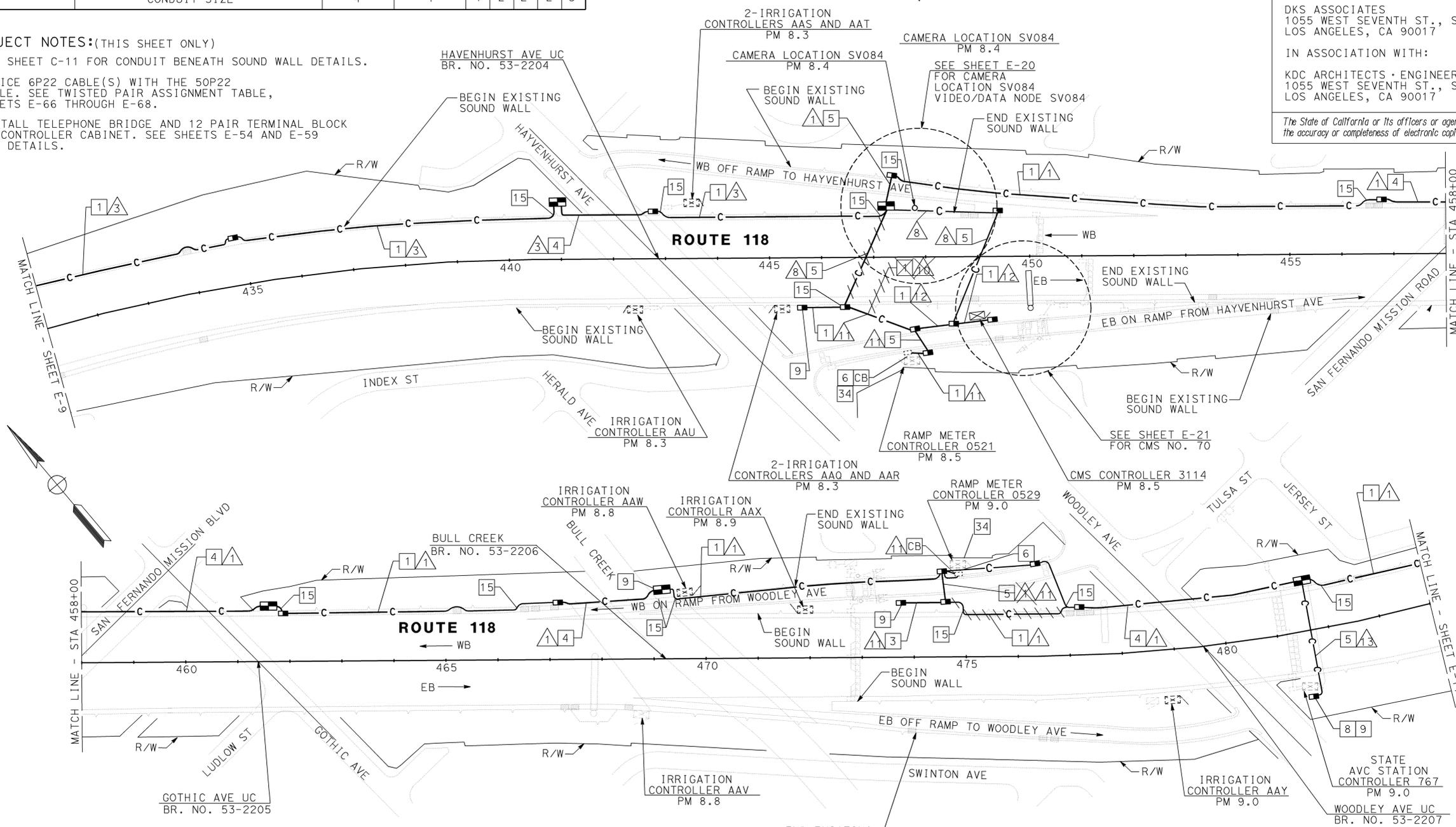
7-22-96
 PLANS APPROVAL DATE

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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COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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



USERNAME => s129183
 DGN FILE => 712087u10.dgn

CU 07374

EA 120871

DESIGNED BY: KP
 CHECKED BY: CF
 DATE: 5/94
 REVISIONS: 2/96

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 s129183



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
07	LA	118	R0.0/R14.0	54 125

Kenneth D. Camp 8/15/94
REGISTERED ELECTRICAL ENGINEER



7-22-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

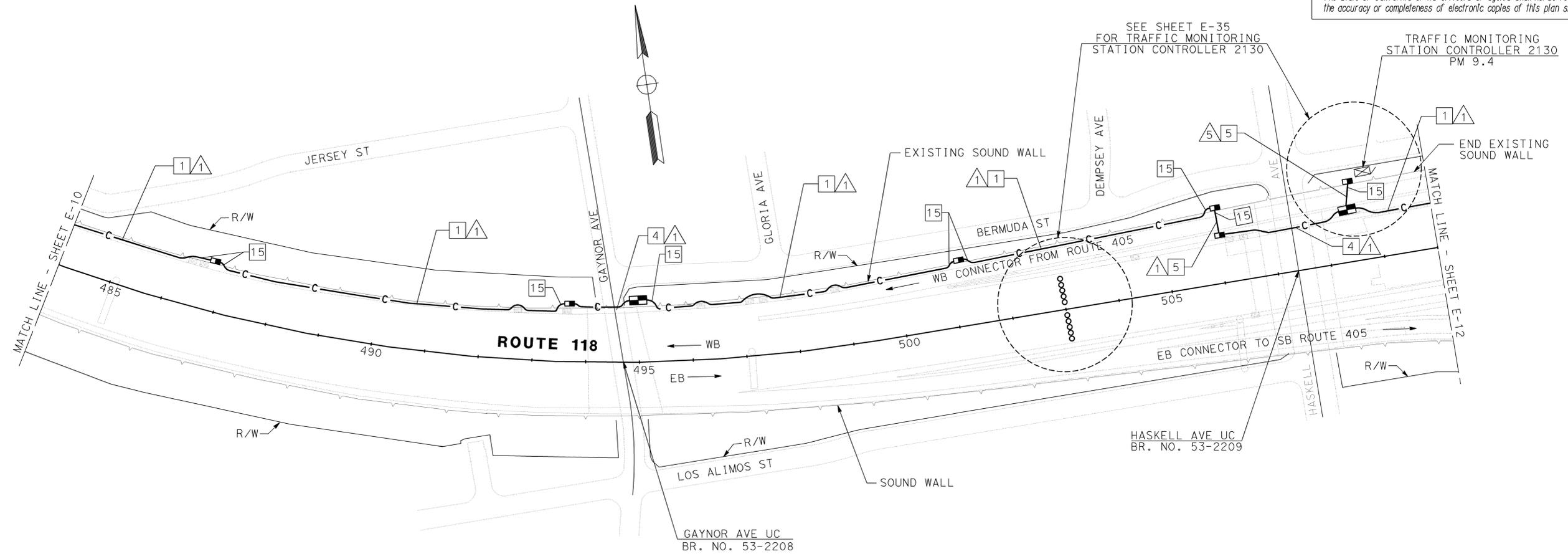
IN ASSOCIATION WITH:
KDC ARCHITECTS - ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)				
CONDUCTOR TYPE	FUNCTION	RUN		
		1	5	1
50P22 CABLE	COMMUNICATION DATA	1		
6P22 CABLE	CONTROLLER DATA			1
24SMFO CABLE	NODE LINE	1		
	INNERDUCT		1 1/4"	1 1/4"
	CONDUIT SIZE		4"	4"

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.

DATE	REVISOR	DATE	REVISOR
5/94	RL	5/94	CF
CALCULATED/DESIGNED BY	CHECKED BY		
PAT SULLIVAN			
DESIGN OVERSIGHT			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			



PROJECT NOTES: (THIS SHEET ONLY)
15 SEE SHEET C-11 FOR CONDUIT BENEATH SOUND WALL DETAILS.

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



COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-11

712087u11.dgn 24-MAR-2009 s129183

LAST REVISION 00-00-00 DATE PLOTTED => 24-MAR-2009 TIME PLOTTED => 11:25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	RO.0/R14.0	57	125

Kenneth D. Camp 8/15/94
 REGISTERED ELECTRICAL ENGINEER
 7-22-96
 PLANS APPROVAL DATE



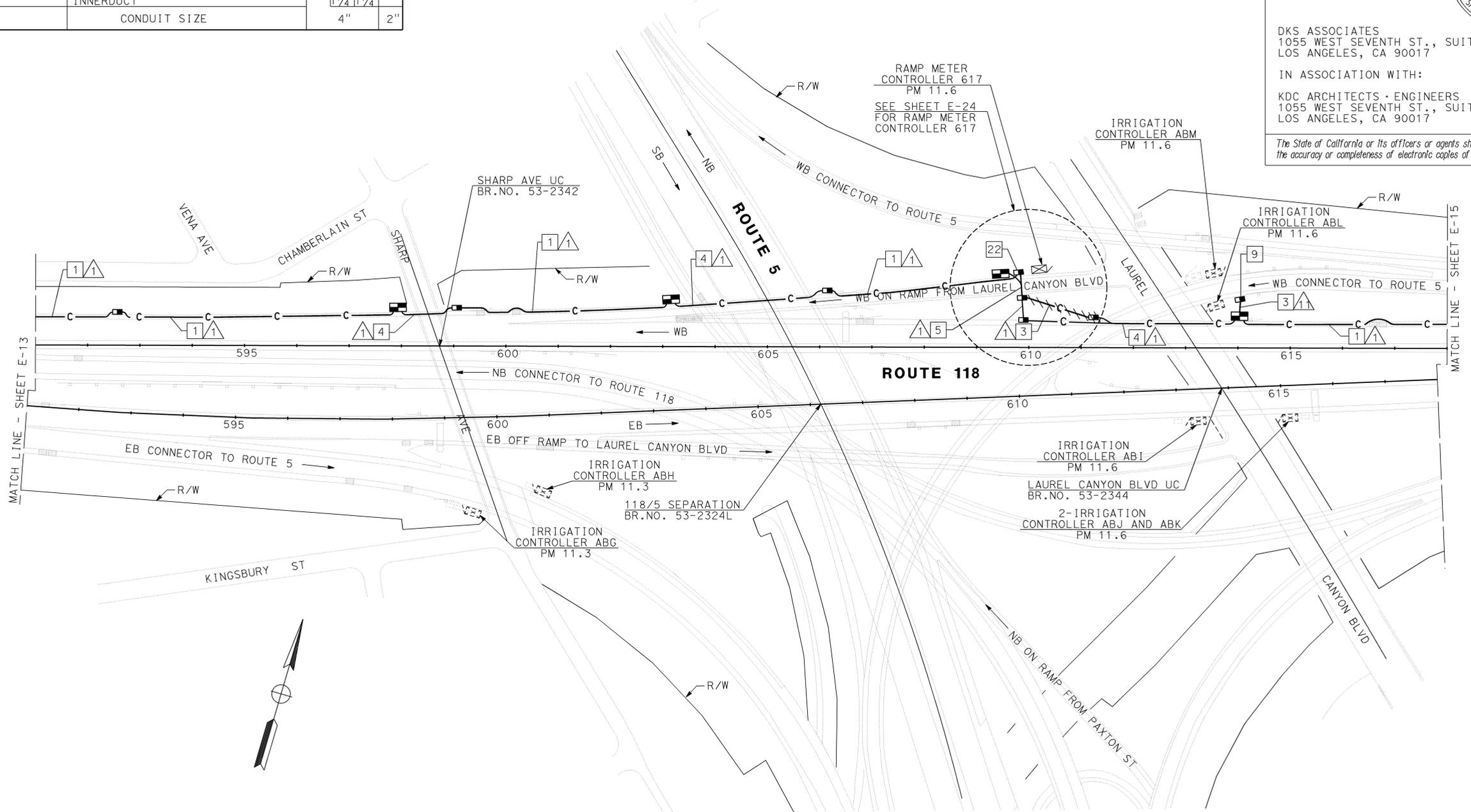
DKS ASSOCIATES
 1055 WEST SEVENTH ST., SUITE 2850
 LOS ANGELES, CA 90017
 IN ASSOCIATION WITH:
 KDC ARCHITECTS - ENGINEERS
 1055 WEST SEVENTH ST., SUITE 2890
 LOS ANGELES, CA 90017
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CONDUCTOR TYPE	FUNCTION	RUN	
		1	1/4
50P22 CABLE	COMMUNICATION DATA	1	
6P22 CABLE	CONTROLLER DATA		1
24SMFO CABLE	NODE LINE	1	
	INNERDUCT	1/4	1/4
	CONDUIT SIZE	4"	2"

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.

PROJECT NOTES: (THIS SHEET ONLY)
 22 PULL AND COIL AN EXTRA 50 FEET OF 24SMFO AND 50P22 CABLE IN SPLICE VAULT.

CALCULATED/DESIGNED BY: KP
 REVISIONS: 2/96
 DATE: 5/94
 CHECKED BY: CF
 DESIGN OVERSIGHT: PAT SULLIVAN
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 s129183
 19-MAR-2009
 712087u14.dgn



COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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



USERNAME => s129183
 DGN FILE => 712087u14.dgn

CU 07374

EA 120871

DATE PLOTTED => 19-MAR-2009
 TIME PLOTTED => 15:15
 LAST REVISION 00-00-00

712087u15.dgn 19-MAR-2009 6129183

DATE	REVISION	BY	DATE
5/94	1	KP	2/96
5/94	2	CF	
5/94	3	CF	
5/94	4	CF	
5/94	5	CF	
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5/94	96	CF	
5/94	97	CF	
5/94	98	CF	
5/94	99	CF	
5/94	100	CF	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT
PAT SULLIVAN

CALCULATED/DESIGNED BY
RL

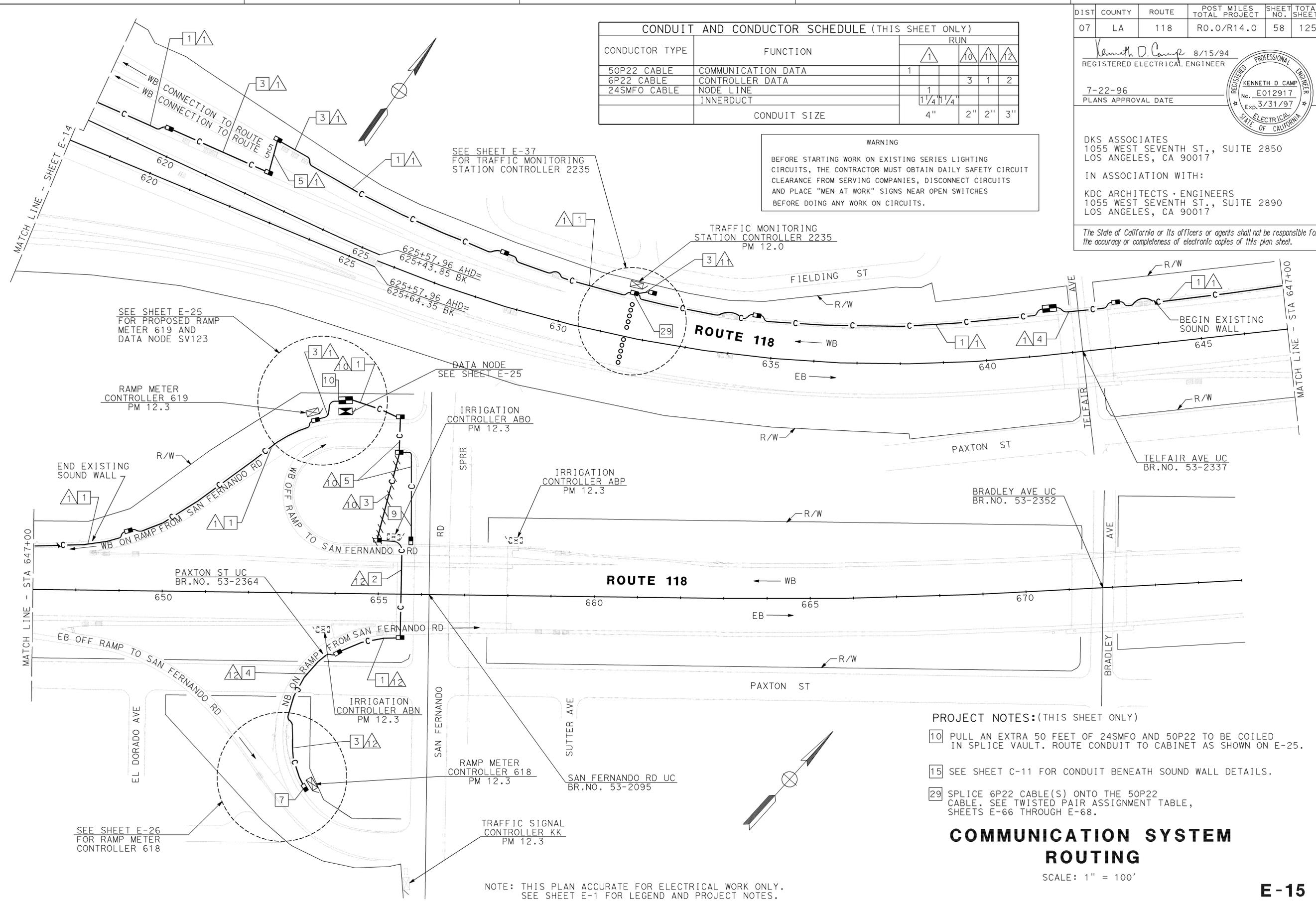
CHECKED BY
CF

DATE
5/94

REVISION
1

BY
KP

DATE
2/96



CONDUCTOR TYPE	FUNCTION	RUN			
		1	10	11	12
50P22 CABLE	COMMUNICATION DATA	1			
6P22 CABLE	CONTROLLER DATA		3	1	2
24SMFO CABLE	NODE LINE	1			
	INNERDUCT	1 1/4	1 1/4		
	CONDUIT SIZE	4"	2"	2"	3"

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.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	R0.0/R14.0	58	125

Kenneth D. Camp 8/15/94
 REGISTERED ELECTRICAL ENGINEER

7-22-96
 PLANS APPROVAL DATE

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.

- PROJECT NOTES: (THIS SHEET ONLY)**
- 10 PULL AN EXTRA 50 FEET OF 24SMFO AND 50P22 TO BE COILED IN SPLICE VAULT. ROUTE CONDUIT TO CABINET AS SHOWN ON E-25.
 - 15 SEE SHEET C-11 FOR CONDUIT BENEATH SOUND WALL DETAILS.
 - 29 SPLICE 6P22 CABLE(S) ONTO THE 50P22 CABLE. SEE TWISTED PAIR ASSIGNMENT TABLE, SHEETS E-66 THROUGH E-68.

COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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



USERNAME => s129183
 DGN FILE => 712087u15.dgn

CU 07374 EA 120871

DATE PLOTTED => 19-MAR-2009
 TIME PLOTTED => 15:16
 LAST REVISION
 00-00-00

INDEX OF SHEETS

Sheet No.	1	Title and Location Map
"	2-3	Standard Plans List
"	4-5	Key Map and Line Index
"	6-17	Layouts
"	18-26	Construction Details
"	27-51	Utility Plans
"	52	Traffic Handling Plan
"	53-54	Construction Area Signs
"	55	Summary of Quantities
"	56	Retaining Wall
"	57-121	Electrical Plans
"	122-123	Revised Standard Plans
"	124-126	New Standard Plans
BUILDING PLANS		
"	127-130	Architectural Plans
"	131-134	Structural Plans
"	135	Mechanical Plans
"	136-141	Electrical Plans

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN LOS ANGELES,
IN NORWALK, DOWNEY, SANTA FE SPRINGS,
WHITTER, PICO RIVERA, INDUSTRY AND BALDWIN PARK
FROM ROUTE 605/105 SEPARATION
TO ROUTE 605/10 SEPARATION**

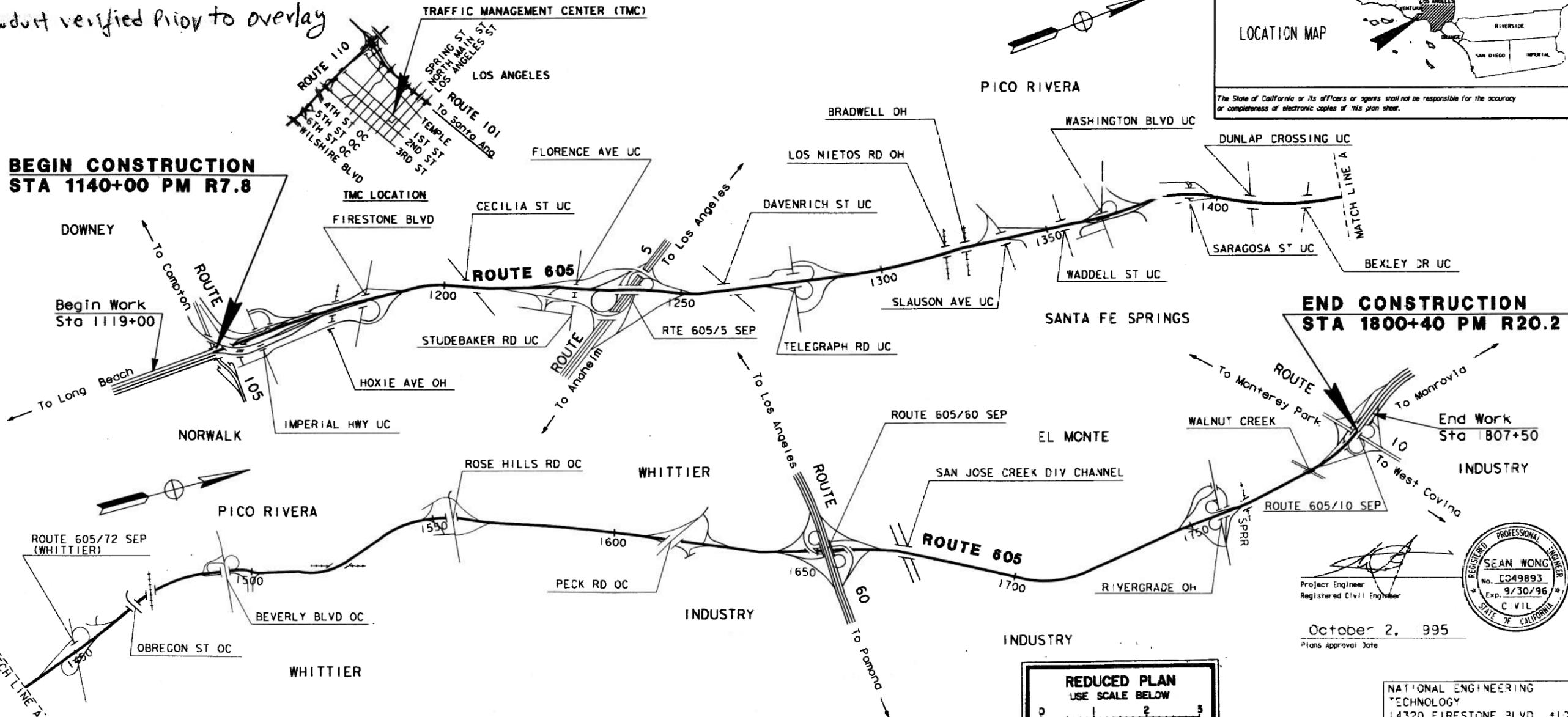
To be supplemented by Standard Plans dated July, 1992

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	605	R7.8/R20.2	141	141

LOCATION MAP

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.

By DP. - Conduit verified prior to overlay



**BEGIN CONSTRUCTION
STA 1140+00 PM R7.8**

**END CONSTRUCTION
STA 1800+40 PM R20.2**

Begin Work
Sta 1119+00

End Work
Sta 1807+50

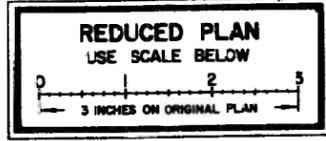
Approved as to impact on State facilities and conformance with applicable State standards and practices and that technical oversight was performed as described in the California Department of Transportation A & E Consultant Services Manual

PROJECT ENGINEER	SEAN WONG
DESIGN CHECKERS ONLY APPROVAL	
REGISTERED PROFESSIONAL ENGINEER	SEAN WONG
REGISTRATION NO.	C30912
DATE	5-2-95
PRINTED BY	PAT SULLIVAN
SCALE	AS SHOWN

The Contractor shall possess the Class (or Classes) of license as specified in the "Notice to Contractors".

Project Engineer
Registered Civil Engineer

October 2, 1995
Plans Approval Date



FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

USERNAME => trmarlak
DGN FILE => /usr/trmarlak/P2/71209aa01.

CU 07396 EA 209A1

NATIONAL ENGINEERING TECHNOLOGY
14320 FIRESTONE BLVD., #100
LA MIRADA, CA 90638
Contract No. **07-1209A4**

TIME PLOTTED -> 12-OCT-1995 14:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	605	RT. 8/R20.2	75	141

Elia G. Saghir
 REGISTERED ELECTRICAL ENGINEER (Date)
 10-2-95
 PLANS APPROVAL DATE


NATIONAL ENGINEERING TECHNOLOGY
 14320 FIRESTONE BLVD., SUITE 100
 LA MIRADA, CA 90638
 IN ASSOCIATION WITH:
 RAYTHEON INFRASTRUCTURE SERVICES, INC.
 ABRATIQUO AND ASSOCIATES, INC.
 KATZ OKITSU AND ASSOCIATES
 WAGNER ENGINEERING AND SURVEY, INC.

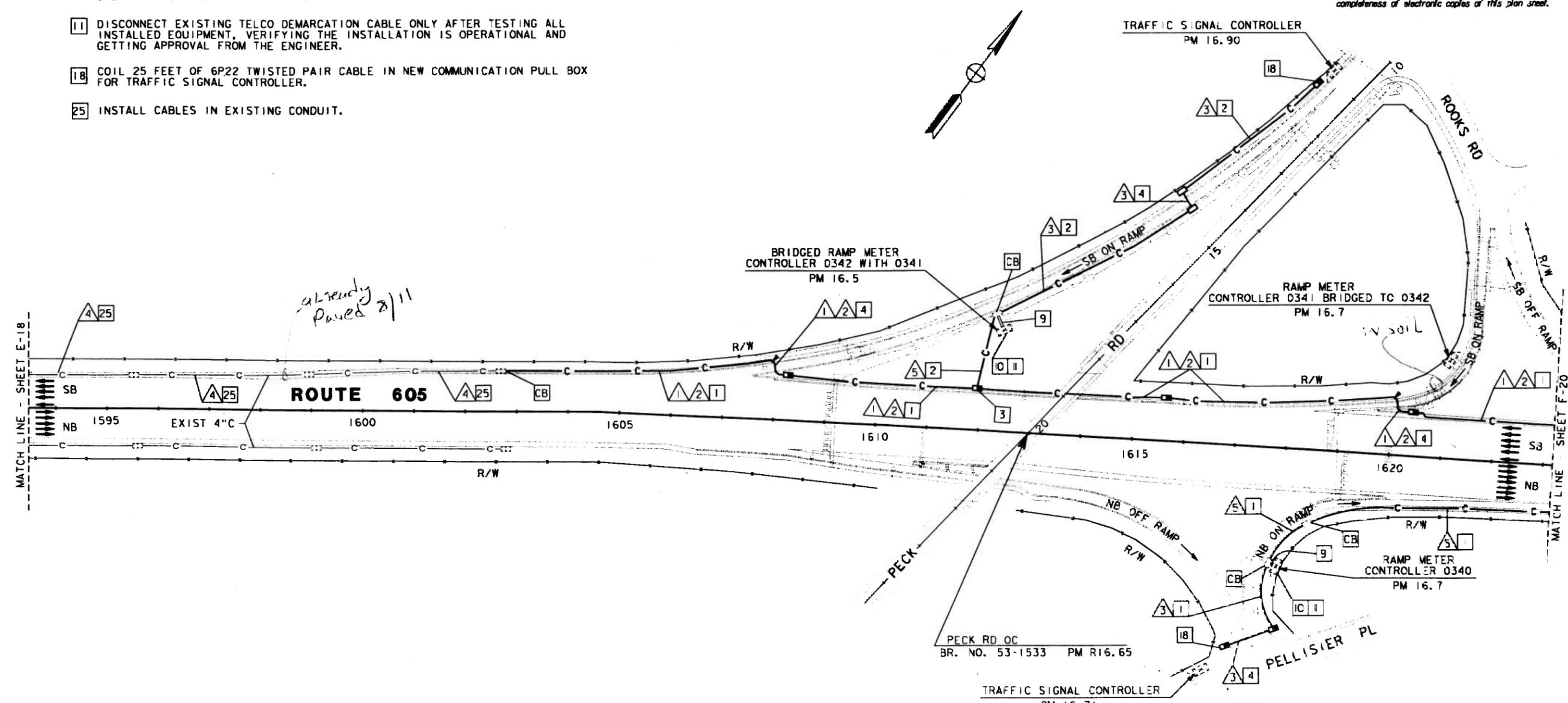
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RLN				
CONDUCTOR TYPE	FUNCTION	1	2	3	4	5
50P22 CABLE	DATA /PHONE					
6P22 CABLE	DATA /PHONE			1		2
60SMFO CABLE	VIDEO /DATA				1	
12SMFO CABLE	SH VIDEO					
	INNERDUCT	1/4"	1/4"		1/4"	1/4"
	CONDUIT SIZE	4"	4"	2"	4" (E)	2"

(E) = EXISTING CONDUIT OR CONDUCTOR

PROJECT NOTES: (THIS SHEET ONLY)

- 1. INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. SEE SHEET E-43 FOR DETAILS.
- 2. INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. SEE SHEET E-42 FOR DETAILS.
- 3. INSTALL COMMUNICATION PULL BOX WITH TWISTED-PAIR SPLICE CLOSURE. SEE DETAIL B, SHEET E-46.
- 4. JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. SEE SHEET E-44 FOR DETAILS.
- 9. CONNECT 6P22 TWISTED PAIR CABLE TO CONTROLLER.
- 10. INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEETS E-49 AND E-53 FOR DETAILS.
- 11. DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
- 18. COIL 25 FEET OF 6P22 TWISTED PAIR CABLE IN NEW COMMUNICATION PULL BOX FOR TRAFFIC SIGNAL CONTROLLER.
- 25. INSTALL CABLES IN EXISTING CONDUIT.

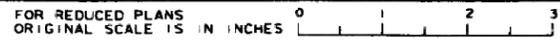


already paved 8/11

COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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



JUSERNAME => tme
DGN FILE => /usr/home/PO7/09/09.dgn

CU 07396 EA 1209A1

REVISIONS: REVISED BY DATE 3/95 CHECKED BY JZ
 DESIGN OVERSIGHT PAT SULLIVAN
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 Galtbans

TIME PLOTTED 12 OCT 1995 12:46
 10/30/00

Elia G. Saghir
 REGISTERED ELECTRICAL ENGINEER (Date)
 4/3/95
 10-2-95
 PLANS APPROVAL DATE


NATIONAL ENGINEERING TECHNOLOGY
 14320 FIRESTONE BLVD., SUITE 100
 LA MIRADA, CA 90638
 IN ASSOCIATION WITH:
 RAYTHEON INFRASTRUCTURE SERVICES, INC.
 ABRATIQUO AND ASSOCIATES, INC.
 KATZ OKITSU AND ASSOCIATES
 WAGNER ENGINEERING AND SURVEY, 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.

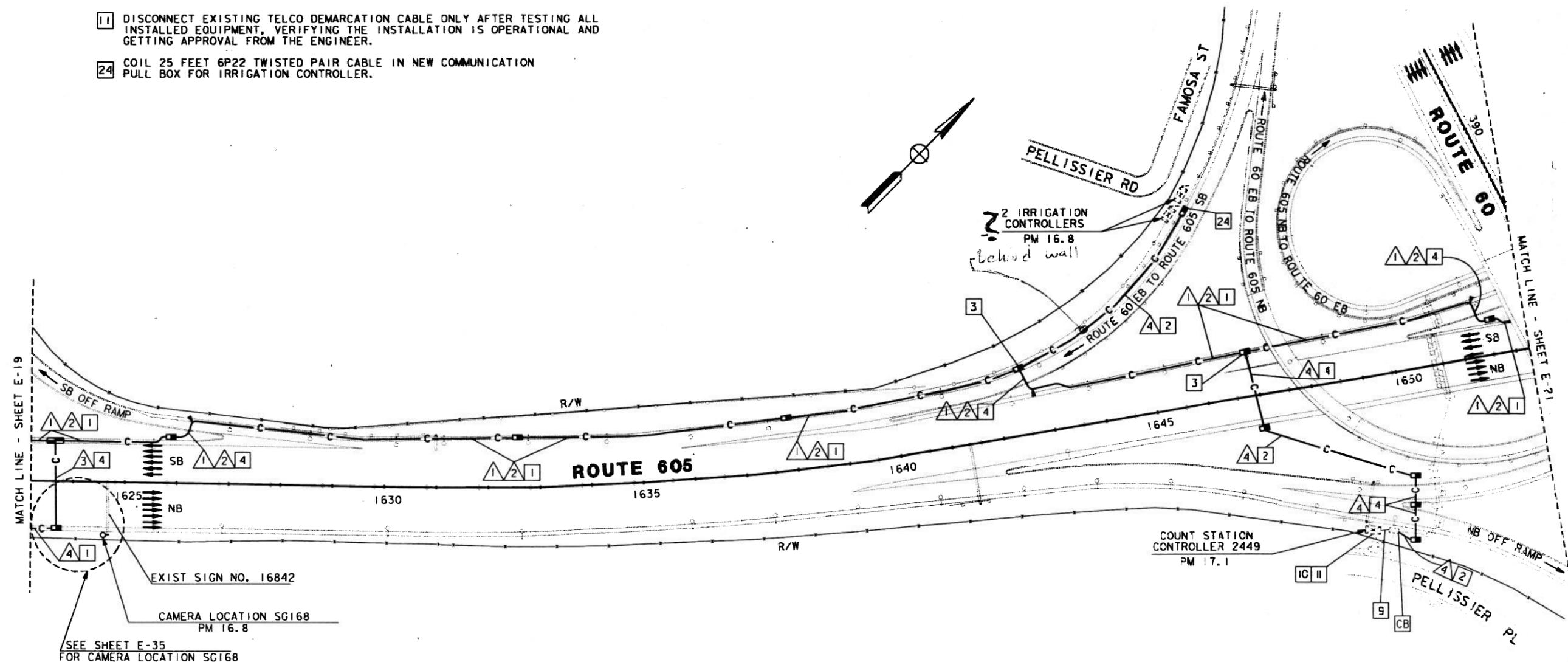
PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. SEE SHEET E-43 FOR DETAILS.
- 2 INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. SEE SHEET E-42 FOR DETAILS.
- 3 INSTALL COMMUNICATION PULL BOX WITH TWISTED-PAIR SPLICE CLOSURE. SEE DETAIL B, SHEET E-46.
- 4 JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. SEE SHEET E-44 FOR DETAILS.
- 9 CONNECT 6P22 TWISTED PAIR CABLE TO CONTROLLER.
- 10 INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEETS E-49 AND E-53 FOR DETAILS.
- 11 DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
- 24 COIL 25 FEET 6P22 TWISTED PAIR CABLE IN NEW COMMUNICATION PULL BOX FOR IRRIGATION CONTROLLER.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN			
		1	2	3	4
50P22 CABLE	DATA /PHONE				
6P22 CABLE	DATA /PHONE			3	2
60SMFO CABLE	VIDEO /DATA				
12SMFO CABLE	SH VIDEO				
2SMFO B/O CABLE	SH VIDEO				
	INNERDUCT	1 1/4"		1 1/4"	
	CONDUIT SIZE	4"	4"	3"	2"

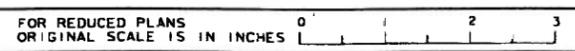
(E) = EXISTING CONDUIT OR CONDUCTOR



CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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



USERNAME => mikes
 DGN FILE => /usr/mikes/207/209cu20.dwg

CJ 07396

EA 1209A

REVISIONS
 DATE REVISED BY DATE REVISION
 3/95 ES JZ
 3/95 JZ JZ

DESIGN OVERSIGHT
 PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

TIME PLOTTED => 06 OCT 1995 15:24
 00 00 00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	605	R7.8/R20.2	77	41

Elia G. Saghir 4/3/95
 REGISTERED ELECTRICAL ENGINEER (Date)
 10-2-95
 PLANS APPROVAL DATE

NATIONAL ENGINEERING TECHNOLOGY
 14320 F RESTONE BLVD., SUITE 100
 LA MIRADA, CA 90638
 IN ASSOCIATION WITH:
 RAYTHEON INFRASTRUCTURE SERVICES, INC.
 ABRATIOUE AND ASSOCIATES, INC.
 KATZ OKITSU AND ASSOCIATES
 WAGNER ENGINEERING AND SURVEY, 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.

- PROJECT NOTES: (THIS SHEET ONLY)**
- INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. SEE SHEET E-43 FOR DETAILS.
 - INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. SEE SHEET E-42 FOR DETAILS.
 - JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. SEE SHEET E-44 FOR DETAILS.
 - INSTALL CONDUIT(S) ON STRUCTURE. SEE SHEETS C-1 TO C-9 FOR DETAILS.
 - INSTALL TYPE 334 CABINET. SEE DETAIL 7, SHEET E-54.

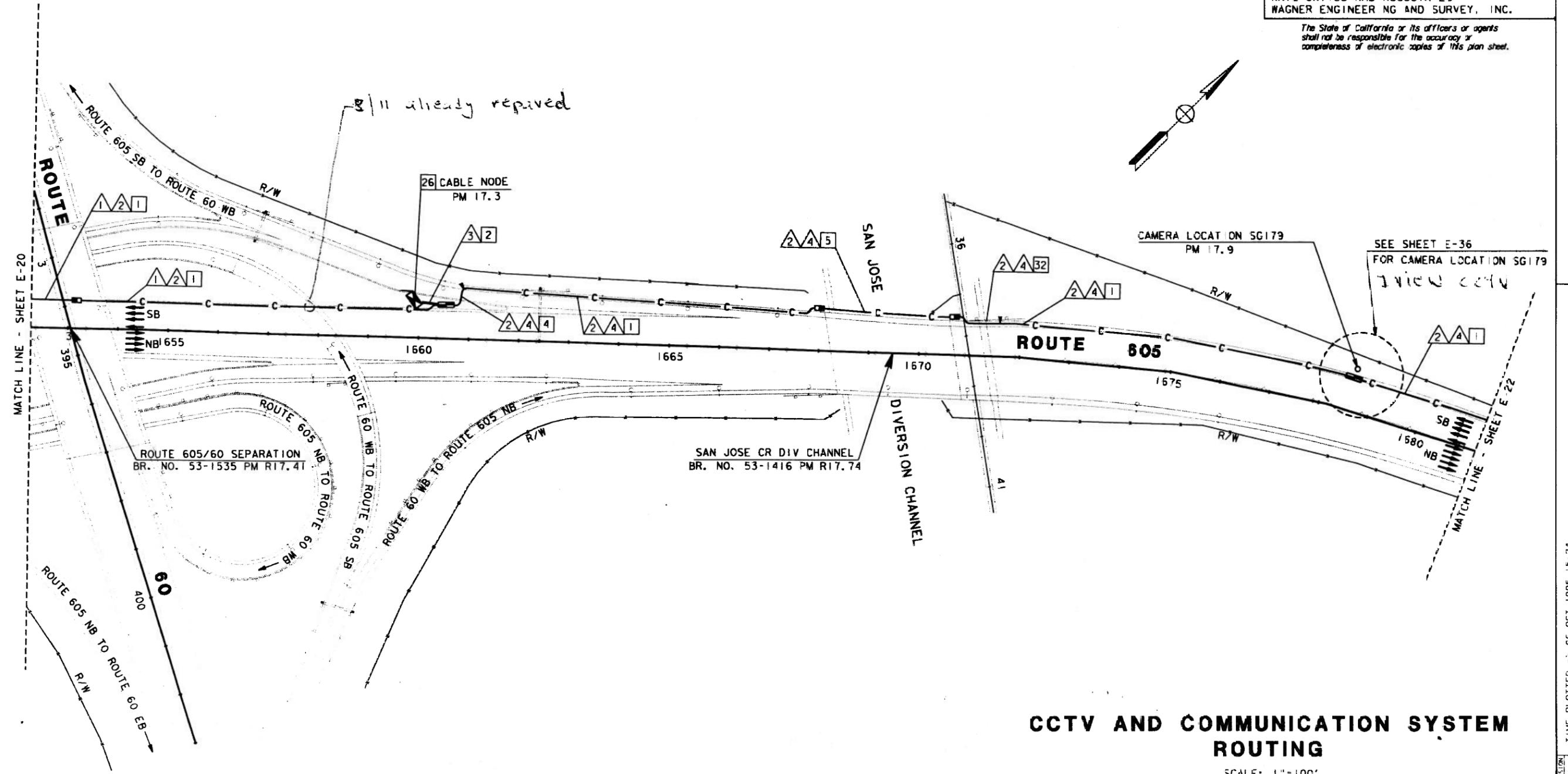
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	
50P22 CABLE	DATA /PHONE					
6P22 CABLE	DATA /PHONE					
60SMFO CABLE	VIDEO/DATA	1				
12SMFO CABLE	SH VIDEO		1			
24SMFO CABLE	VIDEO/DATA				1	
	INNERDUCT	1/4"	1/4"		1/4" 1/4"	
	CONDUIT SIZE	4"	4"	3"	3"	4"

DESIGNED BY	DATE	REVISOR	DATE
ES	3/95	JZ	3/95
CHECKED BY			

DESIGN OVERSIGHT
PAT SULLIVAN

DEPARTMENT OF TRANSPORTATION
CALIFORNIA
Caltrans



CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

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



USERNAME => mikesi
DGN FILE => \Lsr\m\kesi\9071209.dwg

CL 07396 EA 209A1

TIME PLOTTED => 06-OCT-1995 15:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	605	R7.8/R20.2	79	141

REGISTERED ELECTRICAL ENGINEER (000000) 4/3/95
 ELIA S. SAGHIR
 No. 014922
 Exp. 6/30/95
 PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

10-2-95
 PLANS APPROVAL DATE
 NATIONAL ENGINEERING TECHNOLOGY
 14320 FIRESTONE BLVD., SUITE 00
 LA MADA, CA 90638
 IN ASSOCIATION WITH:
 RAYTHEON INFRASTRUCTURE SERVICES, INC.
 ABRATIQUE AND ASSOCIATES, INC.
 KATZ DKITSU AND ASSOCIATES
 WAGNER ENGINEERING AND SURVEY, INC.

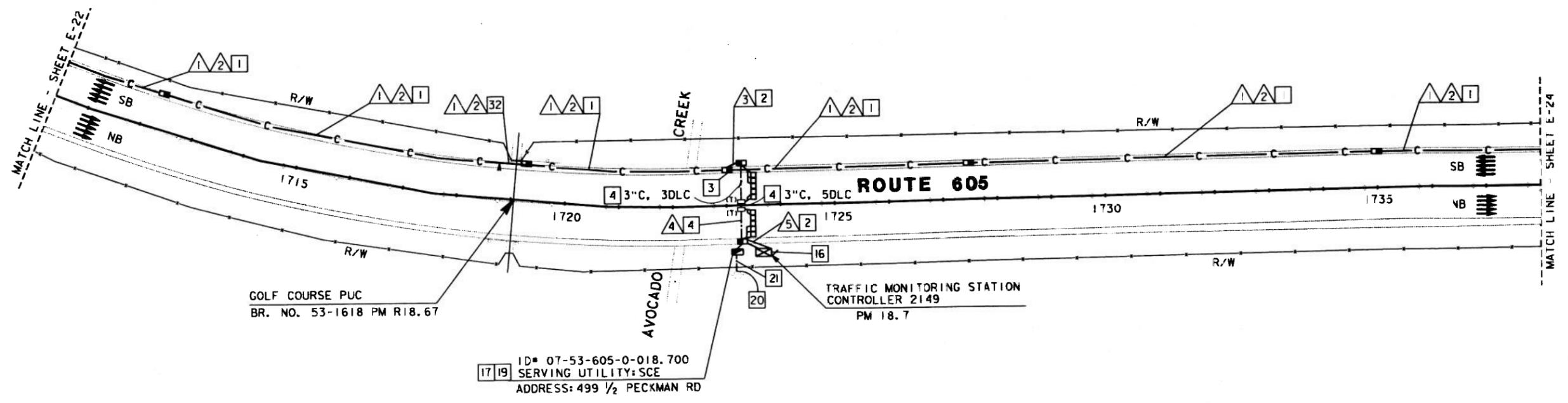
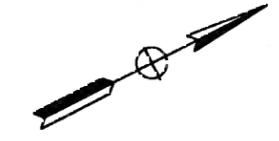
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)						
CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
50P22 CABLE	DATA /PHONE	1				
6P22 CABLE	DATA /PHONE			1	1	1
24SMFO CABLE	VIDEO /DATA	1				
12SMFO CABLE	SH VIDEO		1			
#8	POWER					2
DLC	TMS				7	10
	INNERDUCT	1/4"	1/4"			
	CONDUIT SIZE	4"	4"	2"	3"	3"

(E) = EXISTING CONDUIT OR CONDUCTOR

PROJECT NOTES: (THIS SHEET ONLY)

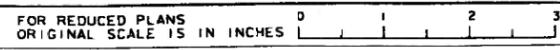
- 1 INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. SEE SHEET E-43 FOR DETAILS.
- 2 INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. SEE SHEET E-42 FOR DETAILS.
- 3 INSTALL COMMUNICATION PULL BOX WITH TWISTED-PAIR SPLICE CLOSURE. SEE DETAIL B, SHEET E-46.
- 4 JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. SEE SHEET E-44 FOR DETAILS.
- 16 INSTALL TYPE 334 CABINET ON NEW FOUNDATION. INSTALL STATE-FURNISHED MODEL 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK. SEE DETAIL C, SHEET E-50 AND DETAIL 4, SHEET E-53
- 17 INSTALL ONE 30A, 120V, SINGLE POLE CIRCUIT BREAKER FOR TRAFFIC MONITORING STATION TO LEAST LOADED PHASE.
- 19 INSTALL ON NEW FOUNDATION TYPE III-BF 100A, 120/240V SERVICE WITH A 100A, 240V, 2P MAIN CIRCUIT BREAKER.
- 20 INSTALL 3" CONDUIT TYPE H SERVICE RISER ON POWER POLE.
- 21 INSTALL 3" RIGID STEEL CONDUIT. UTILITY COMPANY TO INSTALL CONDUCTORS.
- 32 INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER OVER EXISTING UNDERGROUND STRUCTURE. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELED WAY. SEE SHEET E-43 FOR DETAILS.



TRAFFIC MONITORING STATION AND COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

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



LSERNAME = j_tome
DGN FILE = \\usr\j_tome\20\71209a23.dgn

CU 07396 EA 1209A1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT - PAT SULLIVAN
 CALCULATED/DESIGNED BY - ES
 CHECKED BY - JZ
 DATE REVISIONS: 3/95
 DATE REVISOR: JZ

TIME PLOTTED -> 13-OCT-1995 07:25
 501-00-00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	605	R7. B/R2C. 2	80	141

REGISTERED ELECTRICAL ENGINEER (Date) 4/3/95
 ELIA G. SAGHIR
 No. C14922
 E No. 6/30/95
 ELECTRICAL ENGINEER
 STATE OF CALIFORNIA

10-2-95
 PLANS APPROVAL DATE
 NATIONAL ENGINEERING TECHNOLOGY
 14320 FIRESTONE BLVD., SUITE 100
 LA MIRADA, CA 90638
 IN ASSOCIATION WITH:
 RAYTHEON INFRASTRUCTURE SERVICES, INC.
 ABRATIQUE AND ASSOCIATES, INC.
 KATZ OKITSU AND ASSOCIATES
 WAGNER ENGINEERING AND SURVEY, INC.

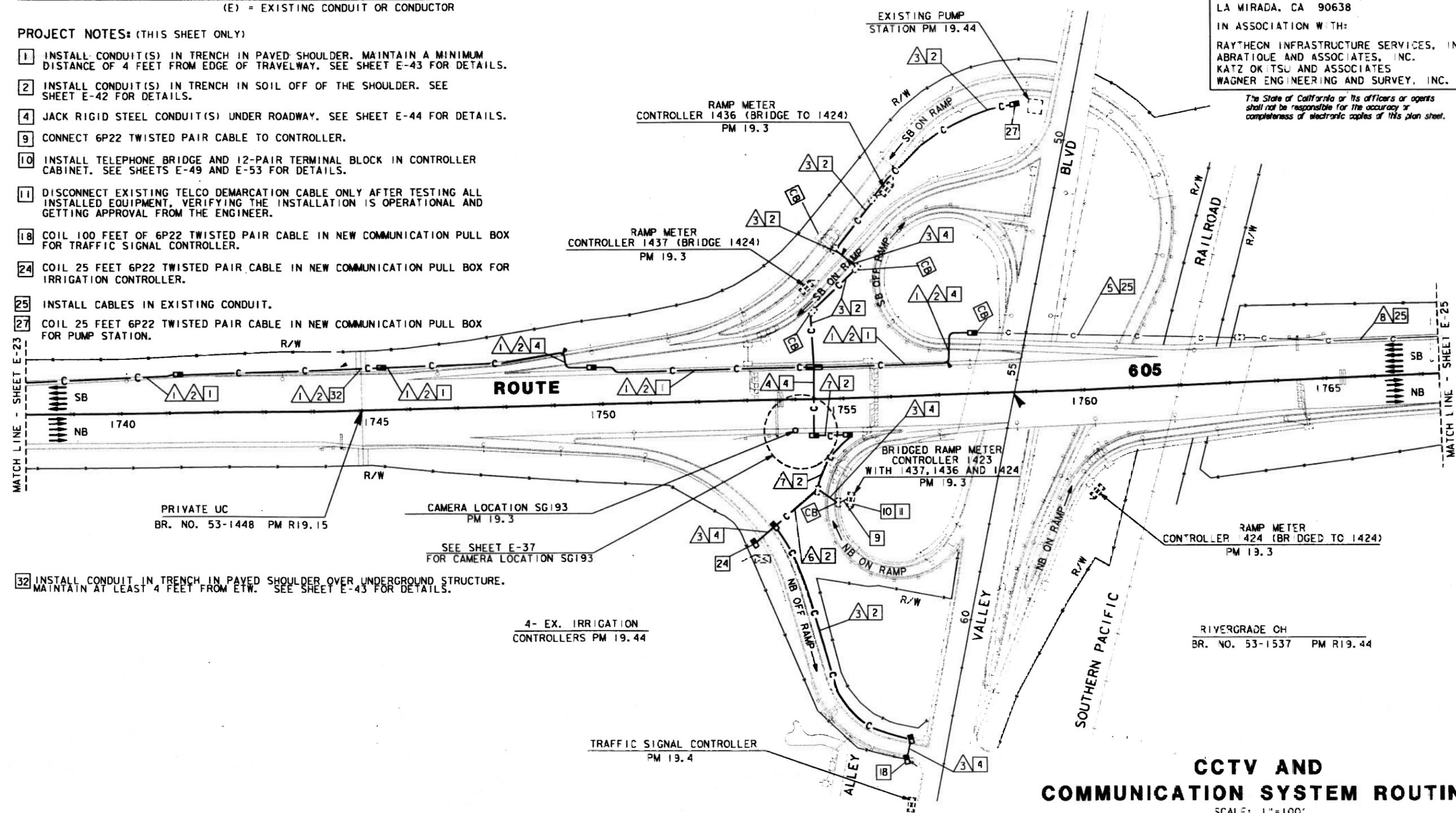
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN							
CONDUCTOR TYPE	FUNCTION	1	2	3	4	5	6	7	8
50P22 CABLE	DATA /PHONE								
6P22 CABLE	DATA /PHONE				4			2	3
24SMFO CABLE	VIDEO /DATA								
12SMFO CABLE	SH VIDEO								
2SMFO B/O CABLE	SH VIDEO								
	INNERDUCT	1/4"	1/4"		1/4"				1/4"
	CONDUIT SIZE	4"	4"	2"	3"	3" (E)	2"	2"	4" (E)

(E) = EXISTING CONDUIT OR CONDUCTOR

PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. SEE SHEET E-43 FOR DETAILS.
- 2 INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. SEE SHEET E-42 FOR DETAILS.
- 4 JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. SEE SHEET E-44 FOR DETAILS.
- 9 CONNECT 6P22 TWISTED PAIR CABLE TO CONTROLLER.
- 10 INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEETS E-49 AND E-53 FOR DETAILS.
- 11 DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
- 18 COIL 100 FEET OF 6P22 TWISTED PAIR CABLE IN NEW COMMUNICATION PULL BOX FOR TRAFFIC SIGNAL CONTROLLER.
- 24 COIL 25 FEET 6P22 TWISTED PAIR CABLE IN NEW COMMUNICATION PULL BOX FOR IRRIGATION CONTROLLER.
- 25 INSTALL CABLES IN EXISTING CONDUIT.
- 27 COIL 25 FEET 6P22 TWISTED PAIR CABLE IN NEW COMMUNICATION PULL BOX FOR PUMP STATION.
- 32 INSTALL CONDUIT IN TRENCH IN PAVED SHOULDER OVER UNDERGROUND STRUCTURE. MAINTAIN AT LEAST 4 FEET FROM ETW. SEE SHEET E-43 FOR DETAILS.



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

CCTV AND COMMUNICATION SYSTEM ROUTING
SCALE: 1"=100'

E-24

DESIGNED BY ES 3/95
 CHECKED BY JZ 3/95
 DESIGN OVERSIGHT PAT SULLIVAN
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 Galters

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	605	27.3/R20.2	8	14

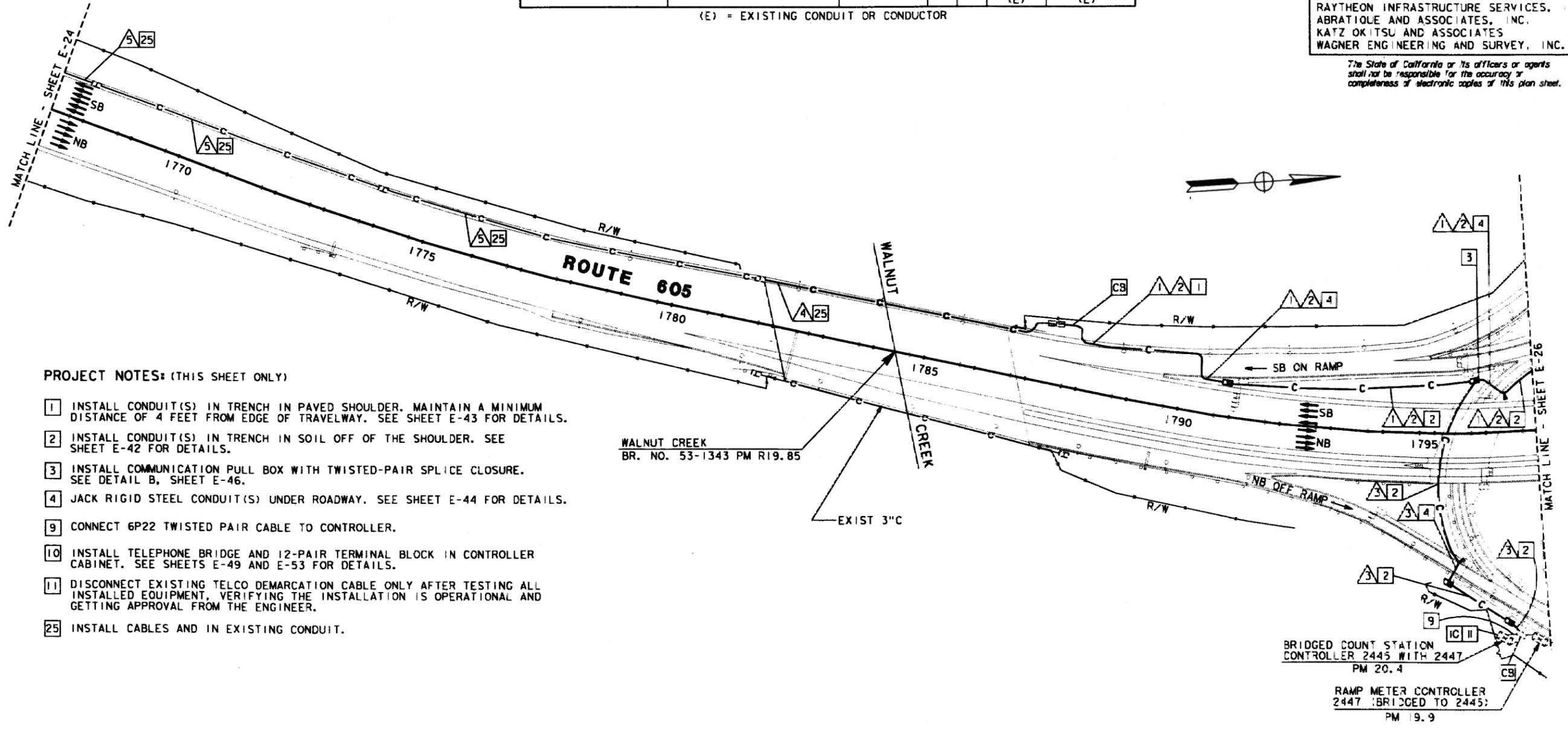
Elu G. Saghir
 REGISTERED ELECTRICAL ENGINEER (Date) 4/3/95
 No. 04922
 Exp. 6/30/95
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER

10-2-95
 PLANS APPROVAL DATE
 NATIONAL ENGINEERING TECHNOLOGY
 14320 FIRESTONE BLVD., SUITE 00
 LA MIRADA, CA 90638
 IN ASSOCIATION WITH:
 RAYTHEON INFRASTRUCTURE SERVICES, INC.
 ABRATILO AND ASSOCIATES, INC.
 KATZ OKITSU AND ASSOCIATES
 WAGNER ENGINEERING AND SURVEY, 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.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN				
CONDUCTOR TYPE	FUNCTION	1	2	3	4	5
50P22 CABLE	DATA /PHONE					
6P22 CABLE	DATA /PHONE					
24SMFO CABLE	VIDEO /DATA					
12SMFO CABLE	SH VIDEO					
	INNERDUCT	1/4"	1/4"		1/4"	1/4"
	CONDUIT SIZE	4"	4"	2"	3" (E)	4" (E)

(E) = EXISTING CONDUIT OR CONDUCTOR



PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. SEE SHEET E-43 FOR DETAILS.
- 2 INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. SEE SHEET E-42 FOR DETAILS.
- 3 INSTALL COMMUNICATION PULL BOX WITH TWISTED-PAIR SPLICE CLOSURE. SEE DETAIL B, SHEET E-46.
- 4 JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. SEE SHEET E-44 FOR DETAILS.
- 9 CONNECT 6P22 TWISTED PAIR CABLE TO CONTROLLER.
- 10 INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEETS E-49 AND E-53 FOR DETAILS.
- 11 DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
- 25 INSTALL CABLES AND IN EXISTING CONDUIT.

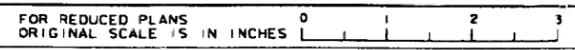
WALNUT CREEK
 BR. NO. 53-1343 PM R19.85

BRIDGED COUNT STATION
 CONTROLLER 2445 WITH 2447
 PM 20.4

RAMP METER CONTROLLER
 2447 BRIDGED TO 2445:
 PM 19.9

**COMMUNICATION SYSTEM
 ROUTING**
 SCALE: 1" = 00'

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



USERNAME => tom
 DGN FILE => /usr/tomd/P38/71209du25.dgn

CU 07396 EA 209A

TIME PLOTTED => 12-OCT-1995 14:55
 UG-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT PAT SULLIVAN
 CALCULATED/DESIGNED BY ES 3/95
 CHECKED BY JZ 3/95
 DATE REVISIED DATE REVISIED

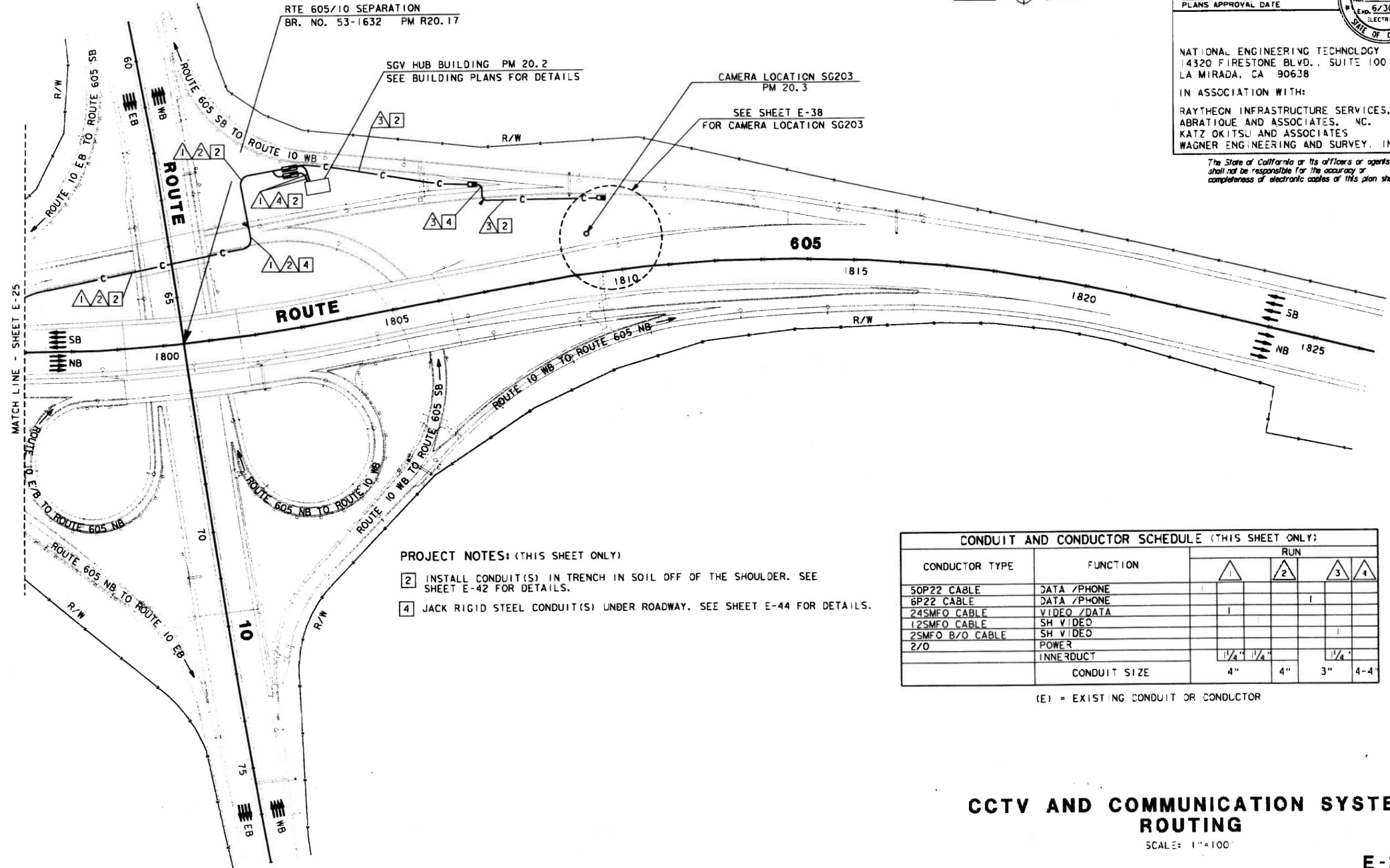


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	605	R7.8/R20.2	82	41

REGISTERED ELECTRICAL ENGINEER (Date) *4/3/95*
 EL A G. SAGHIR
 No. 0.4922
 Exp. 6/30/95
 PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
 14320 FIRESTONE BLVD., SUITE 100
 LA MIRADA, CA 90638
 IN ASSOCIATION WITH:
 RAYTHEON INFRASTRUCTURE SERVICES, INC.
 ABRATIQUE AND ASSOCIATES, INC.
 KATZ OKITSU AND ASSOCIATES
 WAGNER ENGINEERING AND SURVEY, INC.

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- PROJECT NOTES: (THIS SHEET ONLY)**
- 2 INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. SEE SHEET E-42 FOR DETAILS.
 - 4 JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. SEE SHEET E-44 FOR DETAILS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		RUN			
CONDUCTOR TYPE	FUNCTION	1	2	3	4
50P22 CABLE	DATA /PHONE				
6P22 CABLE	DATA /PHONE				
24SMFO CABLE	VIDEO /DATA				
12SMFO CABLE	SH VIDEO				
2SMFO B/O CABLE	SH VIDEO				
2/O	POWER				
	INNERDUCT	1/4"	1/4"	1/4"	
	CONDUIT SIZE	4"	4"	3"	4-4"

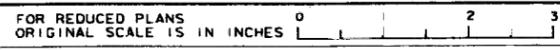
(E) = EXISTING CONDUIT OR CONDUCTOR

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

E-26

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



USERNAME => tomc
 DCN FILE => /Lsr/tomd/P38/71209au26.dgn

CU 07396

EA 1209A1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT - PAT SULLIVAN
 CALCULATED/DESIGNED BY ES
 CHECKED BY JZ
 DATE REVISIONS BY DATE REVISIONS
 3/7/95
 3/7/95



TIME PLOTTED => 12-OCT-1995 14:56
 1209A1