

INFORMATION HANDOUT

**For Contract No. 07-2W9604
At 07-19,60,91,164,605-Var**

**Identified by
Project ID 0715000028**

PERMITS

California Department of Fish and Wildlife, dated October 27, 2015

United States Army Corps of Engineers, dated September 30, 2014

Non-Reporting Nationwide 404

MATERIALS INFORMATION

ITS As-Built



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
South Coast Region
3883 Ruffin Road
San Diego, CA 92123
(858) 467-4201
www.dfg.ca.gov

EDMUND G. BROWN JR., Governor
CHARLTON H. BONHAM, Director



October 27, 2015

Mr. Paul Caron
California Department of Transportation
100 South Main Street
Los Angeles, California 90012
paul_d_caron@dot.ca.gov

Subject: No Streambed Alteration Agreement Needed
Notification No. 1600-2015-0169-R5
Route 605 Walnut Creek Bridge Preservation Project
Walnut Creek

Dear Mr. Caron:

The Department of Fish and Wildlife (“Department”) has reviewed your Streambed Alteration Notification (“Notification”). We have determined that your project is subject to the notification requirement in Fish and Game Code Section 1602, including payment of the notification fee.

The Department has also determined that your project will not substantially adversely affect an existing fish or wildlife resource. As a result, you will not need a Streambed Alteration Agreement for your project. You are responsible for complying with all applicable local, state, and federal laws in completing your work. A copy of this letter and your notification with all attachments should be available at all times at the work site.

Please note that if you change your project so that it differs materially from the project you described in your original Notification, you will need to submit a new Notification and corresponding fee to the Department.

Thank you for notifying us of your project. If you have any questions regarding this matter, please contact Senior Environmental Scientist (Specialist), Jamie Jackson at 805-382-6906 or jamie.jackson@wildlife.ca.gov.

Sincerely,

Erinn Wilson
Senior Environmental Scientist, (Supervisory)

ec: Jamie Jackson, Senior Environmental Scientist (Specialist)

Conserving California's Wildlife Since 1870



DEPARTMENT OF THE ARMY
Los Angeles District, U.S. Army Corps of Engineers
915 WILSHIRE BOULEVARD, SUITE 930
Los Angeles, California 90017

SEP 30 2014

Office of the Chief
Engineering Division

Ms. Eden Berhan, P. E.
Permit Manager
Lan Development Division – Flood Permits
County of Los Angeles
900 South Fremont Avenue
Alhambra, California 91803

Dear Ms. Berhan:

This letter responds to the request to access the Walnut Creek for installing falsework under the California Department of Transportation Bridge crossing the Walnut Creek. In support of the request, final permit application materials were deemed completed on September 08, 2014. We have reviewed the design documents that were submitted; find them to be acceptable; and have concluded that the proposed work would not adversely impact the Los Angeles River Channel as constructed by the U.S. Army Corps of Engineers (Corps).

Enclosed please find two copies of Corps permit number SPL 408 2014-100. Please execute both copies of the enclosed Permit indicating your acceptance of its terms and conditions and return them to this office for execution. A copy of the fully executed Permit will be returned to you for your files providing final approval of your request.

This Permit to modify and/or alter the Project is conditioned upon your compliance with all of the stated conditions, both general and special. If you fail to comply with the terms and conditions of this Permit or if your activity changes in scope, size, or in any other substantive manner, you are required to contact the Corps immediately prior to initiating or continuing work. This Permit does not obviate the necessity to obtain a Department of the Army permit for activities which involve the discharge of dredge or fill material or the placement of fixed structures in the waters of the United States, pursuant to the provisions of Section 10 of the Rivers and Harbors Act (33 USC 403) and/or Section 404 of the Clean Water Act (33 USC 1344). Construction activities may not begin in waters of the United States unless and until applicable permits have been acquired.

This Permit is effective only insofar as the jurisdiction of the Department of the Army applies to the Project. You may be required to obtain additional permits,

comply with applicable laws or regulations as may be required by Federal, state, or local statutes, and/or acquire any necessary real estate rights or permissions from third parties necessary to commence the permitted actions.

Thank you for participating in the Section 408 permit process. If you have any questions, please contact Ms. Huma Nisar, (213) 452-3665, spl.408permits@usace.army.mil.

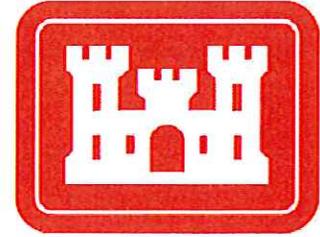
Sincerely,

A handwritten signature in cursive script that reads "Brian Tracy for". The signature is written in black ink and is positioned above the typed name and title.

Richard J. Leifield, P.E.
Chief, Engineering Division



DEPARTMENT OF THE ARMY
33 U.S.C. § 408 PERMIT
U. S. Army Corps of Engineers
Los Angeles District



APPLICANT/NON-FEDERAL SPONSOR: Los Angeles County, Flood Control District, Land Development Division, P.O. Box 1460, Alhambra, CA 91802-1460

PERMIT NUMBER: SPL-408-2014-100

ISSUING OFFICE: U.S. Army Corps of Engineers, Los Angeles District, Engineering Division

CORPS PERMIT COORDINATOR: Ms. Huma Nisar, (213) 452-3665, spl.408permits@usace.army.mil

AFFECTED FEDERAL PROJECT AND DESCRIPTION: Walnut Creek

LOCATION: LAT 34 03 37.18 N LON 118 0 3.2 W

APPROVED MODIFICATION OR ALTERATION OF THE FEDERAL PROJECT:

Permission to access the Walnut Creek rights-of-way in order to perform construction on the Bridge structure, including bringing in equipment to access underneath the Bridge structure. All rebar work and concrete work will be performed from above. No piles, ramps, or other bridge structures will be constructed in the channel. Access shall be along an existing dirt path between channel rip-rap. The equipment will traverse from the staging area to underneath the bridges and then within the channel, the entire length of the bridges.

Detailed drawings of the Permitted Activity are retained by the Corps and filed pursuant to the Permit number listed above.

I. GENERAL CONDITIONS:

A. The Corps acknowledges that the Permitted Activity will be carried out by California Department of Transportation (Third Party) and that this Permit is being issued to the Non-Federal Sponsor, pursuant to the Non-Federal Sponsor's obligations under any applicable Federal Project agreement and as codified in 33 U.S.C. 2213(j). The Non-Federal Sponsor shall ensure compliance with and enforce all requirements referenced in General Condition "C" and Special Conditions, below, against Third Party by separate agreement or permit. The Corps reserves the right to enforce all conditions stated herein against the Non-Federal Sponsor directly. This Permit shall not diminish the

overall responsibility of the Non-Federal Sponsor to operate and maintain the Federal Project as described in the Federal Project's Operation and Maintenance Manual.

B. In the event the Third Party fails to maintain the Permitted Activity in good condition and in conformance with the terms and conditions of this Permit or the agreement or separate permit referenced in General Condition "C" and Special Conditions, below, the Non-Federal Sponsor shall be responsible for taking any and all actions necessary to prevent or mitigate any interference with the operation of the Federal Project that may result from the Third Party's failure, in accordance with the following:

1. Except when immediate action is necessary to prevent or minimize injury to persons or damage to property or the environment, the Non-Federal Sponsor shall, prior to commencing any such actions, provide notice to the Corps of the proposed actions and obtain the Corps' approval.

2. When the Non-Federal Sponsor takes immediate action to prevent injury to persons or damage to property or the environment, The Non-Federal Sponsor shall notify the Corps of such actions as soon as reasonably practical and shall obtain the Corps' approval of any additional actions reasonably necessary to prevent or mitigate the interference with the operation of the Federal Project.

In the event that actions by the Non-Federal Sponsor in accordance with this General Condition "B" fail to prevent interference or potential interference with the operation of the Federal Project resulting from modifications or alterations by the Third Party, the Non-Federal Sponsor then shall be responsible to maintain the Permitted Activity or to take action to remove the Permitted Activity in a manner acceptable to the Corps. Removal shall be conducted only after consultation with the Corps and upon modification or amendment of this Permit.

C. Prior to the commencement of any construction related to the Permitted Activity, the Non-Federal Sponsor shall enter into an agreement with, or issue a separate permit to, the Third Party which shall impose the following requirements on the Third Party:

1. The United States shall not be responsible for damages to property or injuries to persons which may arise from or be incident to the construction, operation, maintenance, repair, rehabilitation, or replacement of the Permitted Activity, or for damages to the Federal Project. Third Party shall hold the United States harmless from any and all such claims except to the extent caused by the fault or negligence of the United States or its contractors.

2. Third Party shall acknowledge that the issuance of the Permit shall not excuse or exempt the Third Party's compliance with any Federal, state, or local law or regulation that is otherwise applicable, , including, but not limited to, those regarding construction, health, safety, water supply, sanitation, use of pesticides, and licenses or permits necessary for the Permitted Activity.

3. Third Party shall maintain the Permitted Activity in good condition and in conformance with the terms and conditions of this Permit. Third Party shall not be relieved of this requirement even if the Permitted Activity is abandoned. Should the Third Party wish to cease to maintain the Permitted Activity or desire to abandon it, Third Party shall request the Non-Federal Sponsor to obtain from the Corps a modification of this permit, which may require additional construction activities to abandon the facility.

4. If previously unknown historic or archeological remains are discovered in carrying out the Permitted Activity, Third Party shall cease activity, protect the site, and immediately notify the Non-Federal Sponsor and the Corps. The Corps will initiate Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

5. If the scope of the Permitted Activity changes from the approved plans and specifications upon which this Permit is based, Third Party shall request the Non-Federal Sponsor to resubmit the permit application with the permit number and revisions clearly identified. Work associated with the Permitted Activity that does not pertain to the revised portion of the project, may continue while the revisions are being reviewed unless the Corps indicates otherwise.

6. Third Party shall apprise the Non-Federal Sponsor and the Corps' Permit Coordinator of the anticipated start and completion dates of construction of the Permitted Activity.

7. Third Party shall notify the Non-Federal Sponsor and the Corps of the start date for construction and a copy of the construction schedule at least one (1) week prior to starting. Updated construction schedules shall be made available upon request. An invitation shall be sent to the Non-Federal Sponsor and the Corps for any kick-off meetings and final walk-through, as applicable.

8. Third Party shall allow the Non-Federal Sponsor and Corps representatives to inspect the Permitted Activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of this Permit.

9. Third Party shall oversee the conduct of the work and ensure the Permitted Activity is being constructed in accordance with the plans and specifications approved by the Corps.

10. Upon completion of construction of the Permitted Activity, Third Party shall submit electronic copies of the as-built plans of the Permitted Activity to the Non-Federal Sponsor and the Corps, which are signed by the Third Party's engineer of record. Electronic copies of the as-built plans shall be submitted in .pdf format.

11. Work shall not begin in waters of the United States until Third Party first obtains a separate, additional Department of the Army permit for activities which involve the discharge of dredge or fill material or the placement of fixed structures in the waters of the United States, pursuant to the provisions of Section 10 of the Rivers and Harbors Act (33 USC 403), and Section 404 of the Clean Water Act (33 USC 1344).

12. Should construction activities fail to commence within two (2) years after the effective date of this Permit, this Permit shall be immediately revoked.

D. The determination of this office that issuance of this Permit is not contrary to the public interest was made in reliance on the information submitted. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

1. Third Party fails to comply with any of the requirements contained in the agreement or separate permit referenced in General Condition "C", below, and the Non-Federal Sponsor fails to take appropriate action, within a reasonable period of time, to enforce those requirements and/or to prevent any interference with operation of the Federal Project caused by, or related to, Third Party's non-compliance.

2. The information provided by the Non-Federal Sponsor in support of the permit application proves to be incomplete or inaccurate.

3. Significant new information surfaces which the Corps did not consider in reaching the original public interest decision.

II. SPECIAL CONDITIONS:

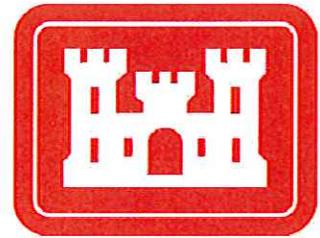
The agreement, or separate permit, between the Non-Federal Sponsor and Third Party, referenced in General Condition "C" above, shall also include the following additional requirements:

1. Third Party must submit a completed Site Access Coordination form found here: [<http://www.spl.usace.army.mil/Missions/CivilWorks/ReservoirRegulation.aspx>, under 'Contact Us' see "LAD Site Access Form"].

2. The field Point-of-Contact (POC) identified in the Site Access Form must contact the Reservoir Operations Center (ROC) at least two (2) business days prior to commencement of work by either calling (213) 452-3623 (leave a message) or email [ROC-LA@usace.army.mil].



DEPARTMENT OF THE ARMY
33 U.S.C. § 408 PERMIT
U. S. Army Corps of Engineers
Los Angeles District



APPLICANT/NON-FEDERAL SPONSOR: Los Angeles County, Flood Control District, Land Development Division, P.O. Box 1460, Alhambra, CA 91802-1460

PERMIT NUMBER: SPL-408-2014-100

ISSUING OFFICE: U.S. Army Corps of Engineers, Los Angeles District, Engineering Division

CORPS PERMIT COORDINATOR: Ms. Huma Nisar, (213) 452-3665, spl.408permits@usace.army.mil

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LOCATION: LAT 34 03 37.18 N LON 118 0 3.2 W

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**DISTRICT 7 QUALITY/CONSTRUCTABILITY REVIEW CHECKLIST
FOR PA/ED-60%-95% DESIGN PACKAGES**

EA (EFIS Proj ID): 07-2W9601 (0715000028) Co-Rte-PM: LA-19, 60, 91, 164, 605-VAR

Staff Reviewer: Conway Chu Date: 9/3/2015 Functional Unit: **ITS**

I certify that a thorough and complete quality review has been performed by my staff:

Jaqueline Tan 9-3-2015
Name and Signature of Functional Manager Date

Key Quality Issues	PA/ED	60%	95%
1. Project design includes PS&E for relocation/installation of Transportation Management System elements.			N
2. Project design includes protection of Transportation Management System elements which will remain in place and be maintained during construction.			√
3. BEES item 860090 Maintaining Existing Traffic Management System elements during construction with spec 86-1.06B are included.			√
4. As-Built plans for fiber optic lines are included as Information Handout.			√

Additional Comments:

Directions: √ = Approved/Accepted, U = Unavailable, I = Incomplete, P = Pending, N = Not Applicable

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	0.1/11.7	88	183

Alebache Bekele
REGISTERED ELECTRICAL ENGINEER

5-18-98
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.

CONSTRUCTION NOTES (SHEETS E-3 TO E-24)

- 1 ADD 6PR22 CABLE IN EXISTING CONDUIT.
 - 2 ADD (2) 6PR22 CABLES IN EXISTING CONDUIT.
 - 3 TERMINATE 6PR22 CABLE IN CABINET AND INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK PER SHEET E-67. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
 - 4 COIL 25' (UNLESS OTHERWISE INDICATED ON PLAN) OF 6PR22 CABLE FOR FUTURE CONNECTION TO TRAFFIC SIGNAL CONTROLLER.
 - 5 COIL 25' OF 6PR22 CABLE FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER.
 - 6 INSTALL SPARE 4" C. SHARE TRENCH WITH COMMUNICATION CONDUIT.
 - 7 JACK SPARE 4" C ADJACENT TO COMMUNICATION CONDUIT.
 - 8 TRENCH AND INSTALL CONDUIT IN SOIL.
 - 9 TRENCH AND INSTALL CONDUIT IN ASPHALT.
 - 10 JACK CONDUIT BENEATH ROADWAY.
- 11 ATTACH CONDUIT TO STRUCTURE. SEE SHEET C-6 TO C-9 FOR BRIDGE ATTACHMENT TYPE AND DETAIL.
 - 12 INSTALL CONDUITS IN SAME TRENCH.
 - 13 SHOWN FOR REFERENCE ONLY. FOR INSTALLATION, REFER TO ELECTRICAL SITE DESIGN ON SHEET E-25 THRU E-49.

TABLE 1 -CCTV WIRING

CONDUCTOR TYPE	FUNCTION	QUANTITY
RG-6A/U	CAMERA VIDEO INTERFACE CABLE	1
9 PR #18 CABLE	PAN/TILT CONTROL CABLE	1
12 PR #18 CABLE	LENS CONTROL CABLE	1

AS-BUILT
 Contract No. 07- **1209C4**
 Resident Engineer: **Paul Wang**
 Completion Date: **01/28/02**

**CCTV AND COMMUNICATION SYSTEM
(NOTES)**

NO SCALE

E-2

DESIGN OVERSIGHT
PAT SULLIVAN

CALCULATED/
DESIGNED BY

CHECKED BY

DATE

REVISOR BY

DATE REVISOR

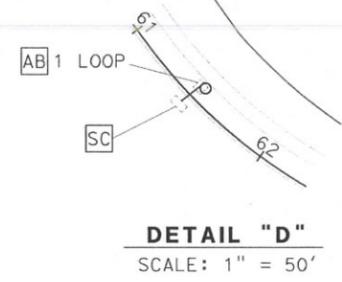
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Alebachew Bekele
REGISTERED ELECTRICAL ENGINEER

5-18-98
PLANS APPROVAL DATE

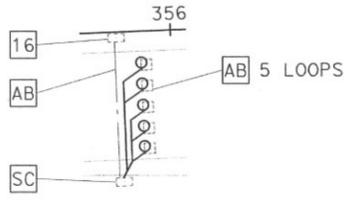
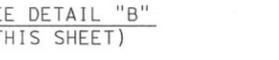
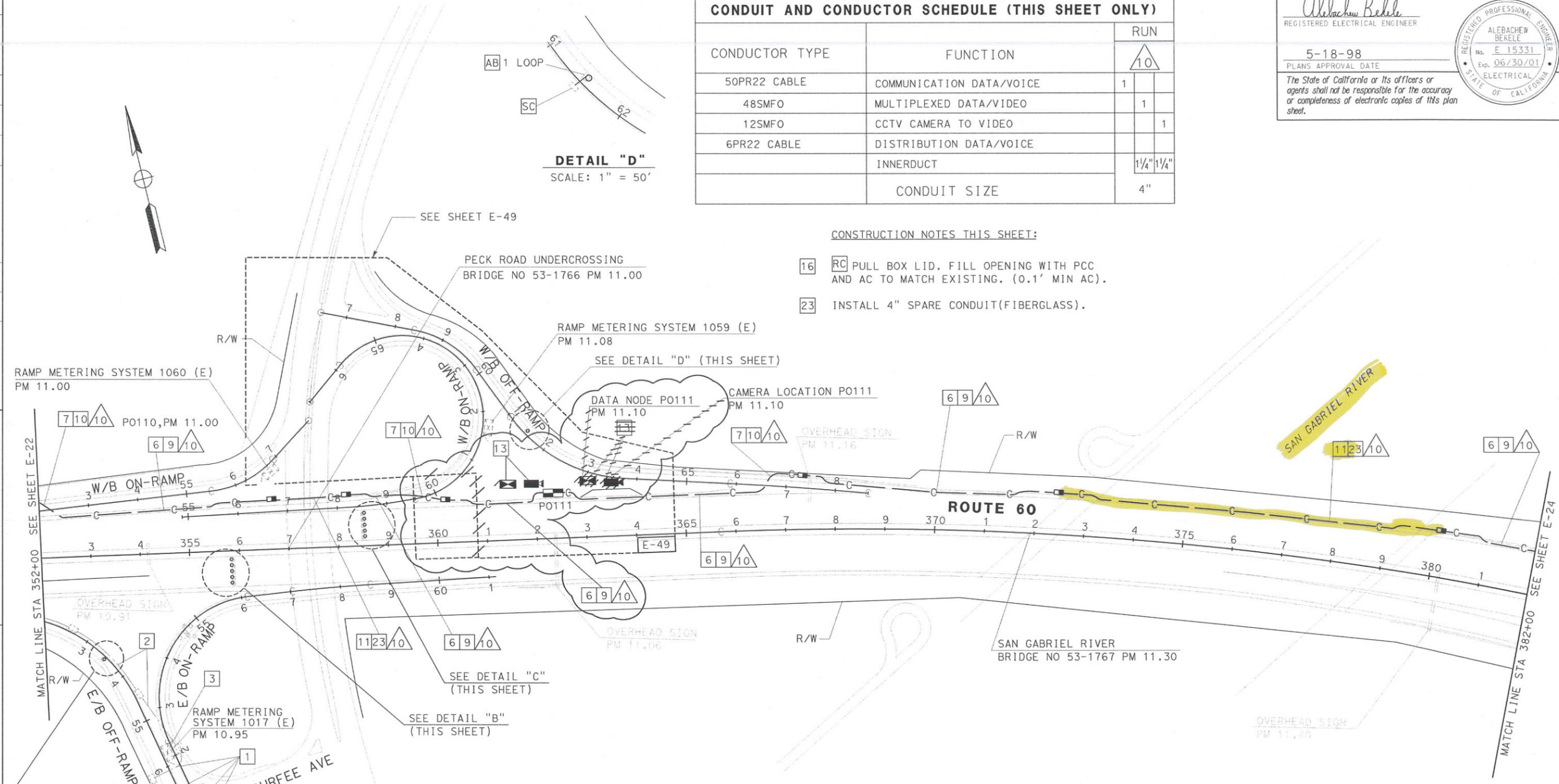
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)		
CONDUCTOR TYPE	FUNCTION	RUN
50PR22 CABLE	COMMUNICATION DATA/VOICE	1
48SMFO	MULTIPLEXED DATA/VIDEO	1
12SMFO	CCTV CAMERA TO VIDEO	1
6PR22 CABLE	DISTRIBUTION DATA/VOICE	1
	INNERDUCT	1/4" 1/4"
	CONDUIT SIZE	4"



- CONSTRUCTION NOTES THIS SHEET:
- 16 RC PULL BOX LID. FILL OPENING WITH PCC AND AC TO MATCH EXISTING. (0.1' MIN AC).
 - 23 INSTALL 4" SPARE CONDUIT(FIBERGLASS).

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT: PAT SULLIVAN
 REVISIONS: DATE, REVISION BY, DATE, REVISION BY



AS-BUILT

Contract No. 07-1209C4
 Resident Engineer: Paul Wang
 Completion Date: 01/28/02

LOOP DETECTOR AND COMMUNICATION SYSTEM ROUTING
 SCALE: 1" = 100'
E-23

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



USERNAME => gcruz
 DGN FILE => 71209cu23.dgn

13-JUL-2007 11:04 gcruz
 71209cu23.dgn

DATE PLOTTED => 13-JUL-2007
 TIME PLOTTED => 11:04
 LAST REVISION

ABBREVIATIONS

- IP — 1-POLE
- 2SMFO — FIBER OPTIC CABLE, 2 SINGLE-MODE FIBERS
- 2SMFO B/O — FIBER OPTIC BREAKOUT CABLE, 2 SINGLE-MODE FIBERS
- 12SMFO — FIBER OPTIC CABLE, 12 SINGLE-MODE FIBERS
- 48SMFO — FIBER OPTIC CABLE, 48 SINGLE-MODE FIBERS
- 50PR22 — TWISTED PAIR CABLE, 50 PAIR 22AWG CONDUCTORS
- 6PR22 — TWISTED PAIR BREAKOUT CABLE, 8 PAIR 22AWG CONDUCTORS
- B/O — BREAKOUT
- AVC — AUTOMATIC VEHICLE CLASSIFICATION STATION
- CB — CIRCUIT BREAKER
- CCR — CAMERA CONTROL RECEIVER
- CCTV — CLOSED CIRCUIT TELEVISION
- CIA — CONTROLLER INTERFACE ASSEMBLY
- CMS — CHANGEABLE MESSAGE SIGN
- COMM — COMMUNICATION
- DACCS — DIGITAL ACCESS AND CROSS CONNECTION SYSTEM
- DEMUX — DEMULTIPLEX
- (E) — EXISTING
- ELA — EAST LOS ANGELES
- EXIST — EXISTING
- FDF — FIBER DISTRIBUTION FRAM
- FDU — FIBER DISTRIBUTION UNIT
- F/O — FIBER OPTIC
- GRS — GALVANIZED RIGID STEEL
- HAR — HIGHWAY ADVISORY RADIO
- JKFD — JACKFIELD
- MUX — MULTIPLEX
- OHS — OVERHEAD SIGN
- OW — ORDER WIRE (MULTIPLE VOICE CIRCUIT)
- PDA — POWER DISTRIBUTION ASSEMBLY
- RCVR — RECEIVER
- RMS — RAMP METERING SYSTEM OR STATION
- RX — RECEIVE
- SCE — SOUTHERN CALIFORNIA EDISON
- SMFO — SINGLEMODE FIBER OPTIC
- SO CAL EDISON — SOUTHERN CALIFORNIA EDISON
- TMS — TRAFFIC MONITORING STATION
- TWP — TWISTED WIRE PAIR
- TX — TRNSMIT
- VMX — VIDEO MULTIPLEXER
- XMTR — TRANSMITTER

CONSTRUCTION NOTES (SHEETS E-2 TO E-23)

- 1 TRENCH AND INSTALL CONDUIT IN SOIL AREA.
- 2 TRENCH AND INSTALL CONDUIT IN ASPHALT.
- 3 JACK RIGID STREET CONDUIT BENEATH ROADWAY.
- 4 ATTACH 2-4 " CONDUITS TO BRIDGE. SEE SHEET C-6 TO C-9 FOR BRIDGE ATTACHEMENT TYPE AND DETAILS.
- 5 TERMINATE 6PR22 CABLE IN CABINET AND INSTALL I70 CONTROLLER INTERFACE PER SHEET E-59. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET.
- 6 COIL 25' (UNLESS OTHERWISE INDICATED ON PLAN) OF 6PR22 CABLE FOR FUTURE CONNECTION TO TRAFFIC SIGNAL CONTROLLER.
- 7 COIL 25' OF 6PR22 CABLE FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER.
- 8 PROTECT EXISTING LOOP DETECTOR STUB-OUT.
- 9 INSTALL SPARE 4"C. SHARE TRENCH WITH COMMUNICATION CONDUIT.
- 10 JACK SPARE 4"C ADJACENT TO COMMUNICATION CONDUIT.
- 11 SHOWN FOR REFERENCE ONLY. SEE SITE DESIGN SHEETS FOR INSTALLATION DETAILS.
- 12 INSTALL PULL BOX IN ASPHALT SHOULDER.

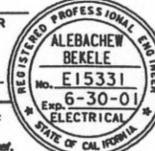
GENERAL NOTES

1. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, EXISTING SERVICE ENCLOSURES, POWER POLES AND EXISTING DEMARCATION BOXES ARE APPROXIMATE. THE LOCATIONS OF PROPOSED PULL BOXES AND SPLICE VAULTS CABINETS AND POSITIONING OF DETECTORS ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
2. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL PROVIDE 72 HOUR ADVANCE WRITTEN NOTICE TO ALL AGENCIES CONCERNED.
3. UNLESS OTHERWISE NOTED, ALL CONDUIT BENDS SHALL BE 4 FOOT RADIUS FACTORY BENDS.
4. COMMUNICATION CONDUIT SHALL BE CENTERED IN THE PAVED SHOULDER OR AS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER.
5. TWISTED PAIR CABLES SHALL BE SPLICED IN A COMMUNICATION PULL BOX, SPLICE VAULT OR CABINET.
6. TRENCHING IN PAVEMENT ALLOWED ONLY WHERE SHOWN ON PLANS.
7. FOR NOTES PERTAINING TO UTILITIES, SEE SHEET U-1.
8. ALL PULL BOXES AND SPLICE VAULTS SHALL BE INSTALLED IN UNPAVED AREA UNLESS NOTED OTHERWISE.
9. ALL IRRIGATION CONTROLLERS ARE EXISTING UNLESS OTHERWISE NOTED ON THE PLANS.
10. PULL BOXES SHALL NOT BE USED TO CHANGE THE ALIGNMENT OF CONDUIT.
11. ALL NEW SERVICE EQUIPMENT ENCLOSURES SHALL ALSO HAVE:
 - (1) IP, 20 A BREAKER (SPARE)
 - (1) IP, 30 A BREAKER (SPARE)
 - (1) 2P, (SPACE FOR FUTURE)
12. SIZE 4" CONDUITS TO BE INSTALLED IN PAVEMENT SHALL MAINTAIN 4 FEET MINIMUM DISTANCE FROM EDGE OF TRAVELED WAY UNLESS OTHERWISE NOTED.
13. SERVICE EQUIPMENT ENCLOSURE SHALL BE LOCATED 10 FEET MINIMUM FROM THE POWER POLE OR VAULT.
14. ELECTRICAL SERVICE INSTALLATION SHALL MET THE REQUIREMENTS OF EITHER SOUTHERN CALIFORNIA EDISON (SCE) OR LOS ANGELES DEPARTMENT OF WATER AND POWER (DWP).
15. CONDUCTOR FROM POWER (OR VAULT) TO SERVICE ENCLOSURE WILL BE INSTALLED BY UTILITY COMPANY.
16. 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 BEFOR IT IS BACKFILLED.

TABLE 1 - CCTV WIRING

CONDUCTOR TYPE	FUNCTION	QUANTITY
RG-6A/U	CAMERA VIDEO INTERFACE CABLE	1
9*18 CABLE	PAN/TILT CONTROL CABLE	1
12*18 CABLE	LENS CONTROL CABLE	1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	11.7/23.7	63	148



5-25-98
 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.

EQUIPMENT IDENTIFICATION



LEGEND

- LOCATION OF PROPOSED CCTV CAMERA AND POLE
- TYPE 334-TV CABINET
- CMS
- SPLICE VAULT
- COMMUNICATION PULL BOX SEE SHEET E-47
- COMMUNICATION CONDUIT
- EXISTING CCTV CAMERA AND POLE
- EXISTING CCTV, OR CABLE NODE
- EXISTING SPLICE VAULT

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 151748 1596
 DATE PLOTTED -> 02 JUL 2002
 TIME PLOTTED -> 09:26:19

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)			
CONDUCTOR TYPE	FUNCTION	RUN	
		1	60
6PR22 CABLE	DATA/VOICE		1
50PR22 CABLE	COMMUNICATION DATA/VOICE	1	
12SMFO CABLE	CCTV CAMERA TO VIDEO DISTRIBUTION		1
48SMFO CABLE	MULTIPLEXED DATA/VIDEO	1	
	INNERDUCT	1 1/4"	1 1/4"
	CONDUIT SIZE	4"	2"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	11.7/23.7	69	148

Albachev Bekele
REGISTERED ELECTRICAL ENGINEER

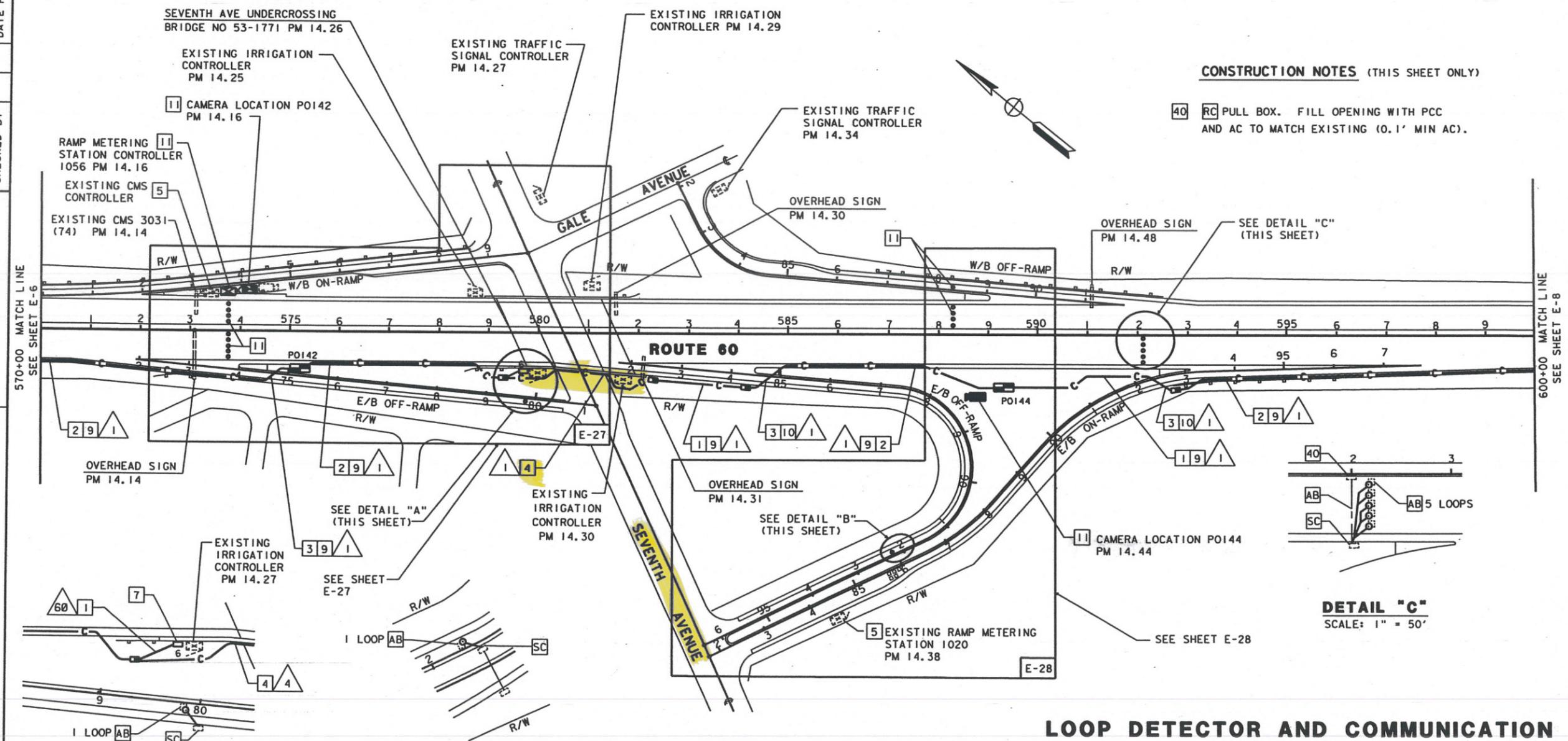


5-25-98
PLANS APPROVAL DATE

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.

CONSTRUCTION NOTES (THIS SHEET ONLY)

40 RC PULL BOX. FILL OPENING WITH PCC AND AC TO MATCH EXISTING (0.1' MIN AC).



DETAIL "A"
SCALE: 1" = 50'

DETAIL "B"
SCALE: 1" = 50'

DETAIL "C"
SCALE: 1" = 50'

LOOP DETECTOR AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-7

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



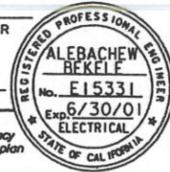
DESIGN OVERSIGHT: PAT SULLIVAN
 CALCULATED/DESIGNED BY: []
 CHECKED BY: []
 DATE REVISED BY: []
 DATE REVISED: []



LAST REVISION
 12-07-95

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	11.7/23.7	82	148

Alfred Bebel
 REGISTERED ELECTRICAL ENGINEER
 5-25-98
 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.

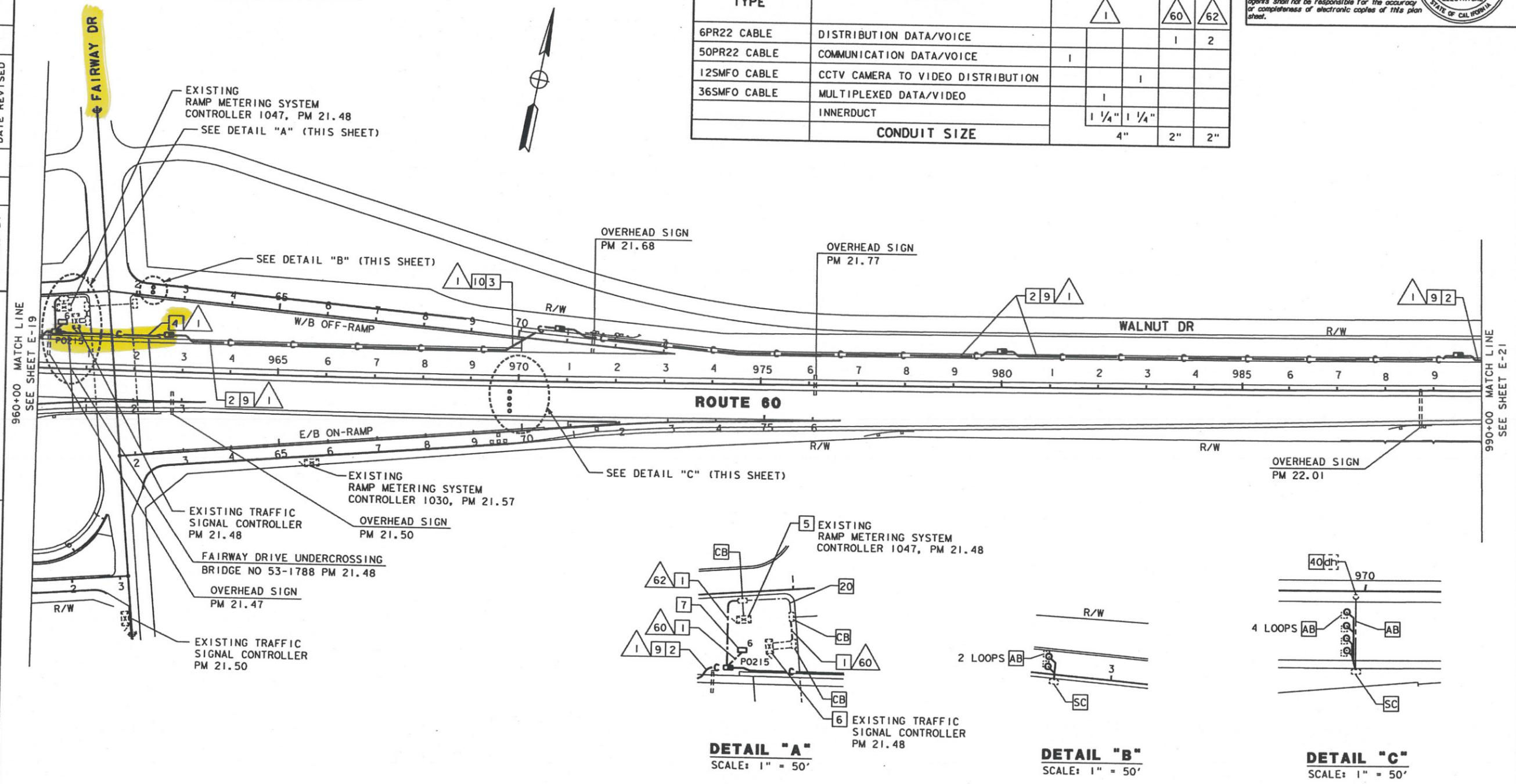


CONSTRUCTION NOTES (THIS SHEET ONLY)

- 20 ADD 6PR22 CABLE IN EXISTING CONDUIT.
- 40 RC PULL BOX OR DETECTOR HANDHOLE. FILL OPENING WITH PCC AND AC TO MATCH EXISTING (0.1' MIN AC).

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN		
		1	60	62
6PR22 CABLE	DISTRIBUTION DATA/VOICE			
50PR22 CABLE	COMMUNICATION DATA/VOICE	1		
12SMFO CABLE	CCTV CAMERA TO VIDEO DISTRIBUTION		1	
36SMFO CABLE	MULTIPLEXED DATA/VIDEO	1		
	INNERDUCT	1 1/4"	1 1/4"	
	CONDUIT SIZE	4"	2"	2"



DETAIL "A"
SCALE: 1" = 50'

DETAIL "B"
SCALE: 1" = 50'

DETAIL "C"
SCALE: 1" = 50'

LOOP DETECTOR AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

USERNAME -> *USER*
DGN FILE -> ... \712096u20.dgn

CU 07396

EA 120961

LAST REVISION DATE PLOTTED 02 JUL 2002
 01-15-96 TIME PLOTTED 10:33:43

9913833
Jan. 15, 1996
EBACHEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Ed Cabrans

DESIGN OVERSIGHT	DATE	REVISOR
PAT SULLIVAN		
CHECKED BY	DATE	REVISOR

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	91	14.6/20.7	43	107

Albachew Bekele
REGISTERED ELECTRICAL ENGINEER
6-1-98
PLANS APPROVAL DATE
No. E15331
Exp. 6/30/01
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.

GENERAL NOTES

1. THE LOCATIONS OF EXISTING CONTROLLER CABINETS, EXISTING SERVICE ENCLOSURES, AND POWER POLES ARE APPROXIMATE. THE LOCATIONS OF PROPOSED PULL BOXES AND SPLICE VAULTS ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
2. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL PROVIDE 72 HOUR ADVANCE WRITTEN NOTICE TO ALL AGENCIES CONCERNED.
3. UNLESS OTHERWISE NOTED, ALL COMMUNICATION CONDUIT BENDS SHALL BE 4 FOOT RADIUS FACTORY BENDS.
4. COMMUNICATION CONDUIT SHALL BE CENTERED IN THE PAVED SHOULDER OR AS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER.

ABBREVIATIONS

IC	INTERCONNECT
IP OR 2P	1 POLE OR 2 POLE
12SMFO	12 SINGLEMODE FIBER OPTIC CABLE
2SMFO B/O	2 SINGLEMODE FIBER OPTIC BREAKOUT CABLE
24SMFO	24 SINGLEMODE FIBER OPTIC CABLE
36SMFO	36 SINGLEMODE FIBER OPTIC CABLE
50P22	50 PAIR 22 AWG TWISTED PAIR CABLE CONDUCTORS
6P22	6 PAIR 22 AWG TWISTED PAIR CABLE CONDUCTORS
12P22	2 PAIR 22 AWG TWISTED PAIR CABLE CONDUCTORS
Ø	DIAMETER
AVC	AUTOMATIC VEHICLE CLASSIFICATION
AR	ARTISIA
BB	BASE BAND
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
DN	DATA NODE
DWP	DEPARTMENT OF WATER & POWER
FDU	FIBER DISTRIBUTION UNIT
FDV	FIBER DISTRIBUTION FRAME
FLEX	FLEXIBLE
F/O OR FO	FIBER OPTIC
FRE	FIBERGLASS REINFORCED EPOXY
GRS	GALVANIZED RIGID STEEL
INTRFC	INTERFACE
IRR	IRRIGATION
J-BOX	JUNCTION BOX
MUX	MULTIPLEXER
NOM	NOMINAL
OHS	OVERHEAD SIGN
PDA	POWER DISTRIBUTION ASSEMBLY
PH	PHASE
PR	PAIR
PTZ	PAN, TILT AND ZOOM
PS	PUMP STATION
REQ'D	REQUIRED
RMS	RAMP METERING SYSTEM OR STATION
RX	RECEIVER
SCE	SOUTHERN CALIFORNIA EDISON
SCHED	SCHEDULE
SH	SHORT HAUL
SM	SINGLEMODE
STL	STEEL
TELCO	TELEPHONE COMPANY
TMC	TRANSPORTATION MANAGEMENT CENTER
TMS	TRAFFIC MONITORING STATION
TP	TWISTED PAIR
TS(C)	TRAFFIC SIGNAL (CONTROLLER)
TX	TRANSMITTER
VSAT	VERY SMALL APERTURE TERMINAL
VDX	VIDEO DEMULTIPLEXER
VMX	VIDEO MULTIPLEXER
VN	VIDEO NODE
VR	SINGLE VIDEO RECEIVER
VSM	VIDEO SWITCH MATRIX
VX	SINGLE VIDEO TRANSMITTER
*X	X AWG CONDUCTOR, 1ø *10 MEANS 10 AWG CONDUCTOR
YP	Y PAIRS OF CONDUCTORS, 1ø 2P MEANS 2 PAIRS

CONSTRUCTION NOTES: (SHEET E-2 TO E-12 ONLY)

1. INSTALL SPARE 4" CONDUIT, SHARE TRENCH WITH COMMUNICATION CONDUIT.
2. JACK SPARE 4" GRS CONDUIT, ADJACENT TO COMMUNICATION CONDUIT.
3. RC PULL BOX, FILL OPENING WITH SLURRY CEMENT BACKFILL AND INSTALL AC TO MATCH (0.1" MIN).
4. SHOWN FOR REFERENCE ONLY. SEE SITE DESIGN SHEETS FOR INSTALLATION DETAILS.
5. INSTALL MODEL 170 CONTROLLER INTERFACE AND TERMINATE 6P22 CABLE IN CABINET. USE EXISTING CONDUIT FROM PULL BOX INTO CABINET. SEE SHEET E-36 FOR DETAILS.
6. PROTECT EXISTING LOOP DETECTOR STUB-OUT AND SAWCUTS.
7. COIL 25' (UNLESS OTHERWISE INDICATED ON PLAN) OF 6P22 CABLE FOR FUTURE CONNECTION TO TRAFFIC SIGNAL CONTROLLER.
8. COIL 25' OF 6P22 CABLE FOR FUTURE CONNECTION TO IRRIGATION CONTROLLER.
9. TRENCH AND INSTALL CONDUIT IN UNPAVED AREA.
10. TRENCH AND INSTALL CONDUIT IN ASPHALT.
11. JACK GRS CONDUIT BENEATH ROADWAY.
12. INSTALL CONDUIT UNDER CONCRETE SIDEWALK.
13. ATTACH CONDUIT TO STRUCTURE. SEE SHEET C-2 THROUGH C-4 FOR BRIDGE ATTACHMENT TYPE AND DETAIL.
14. INSTALL PULL BOX IN ASPHALT.

TABLE 1 - CAMERA IC WIRING

CONDUCTOR TYPE	FUNCTION	QUANTITY
RG-6A/U	CAMERA VIDEO INTERFACE CABLE	1
9 PAIR*18 CABLE	PAN/TILT CONTROL CABLE	1
12 PAIR*18 CABLE	LENS CONTROL CABLE	1

SEE SHEET E-35

EQUIPMENT IDENTIFICATION



LEGEND

- CCTV CAMERA AND POLE
- TYPE 334-TV CABINET
- SPLICE VAULT, SEE SHEET E-29 & E-30
- COMMUNICATION PULL BOX SEE SHEET E-27
- COMMUNICATION CONDUIT
- EXISTING COMMUNICATION CONDUIT
- EXISTING CMS
- VSAT ANTENNA
- TELEPHONE BRIDGE
- EXISTING TELEPHONE BRIDGE
- FIBER OPTIC CABLE
- FIBER OPTIC JUMPER OR PATCH CORD
- COAXIAL CABLE

AS-BUILT
Contract No. 07- 120994
Resident Engineer: NGUYEN, L.
Completion Date: 09/15/2000

CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM (LEGEND AND NOTES)

SCALE: NONE

E-1

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PROJECT ENGINEER
PAT SULLIVAN
CALCULATED/DESIGNED BY
CHECKED BY
DATE 6/97
REVISOR
DATE 6/97
REVISOR

DATE PLOTTED -> 5-JUN-1998
TIME PLOTTED -> 13:32
LAST REVISION
08-04-97

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	605	R7.8/R20.2	63	141

4/3/95
 REGISTERED ELECTRICAL ENGINEER (Date)
 ELTA G. SAGHIR
 No. 014922
 Exp. 6/30/95
 PROFESSIONAL ENGINEER
 ELECTRICAL
 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.
 ABRATIOQUE AND ASSOCIATES, INC.
 KATZ OKITSU AND ASSOCIATES
 WAGNER ENGINEERING AND SURVEY, INC.

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 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
50P22 CABLE	DATA /PHONE				
6P22 CABLE	DATA /PHONE				
60SMFO CABLE	VIDEO /DATA				
12SMFO CABLE	SH VIDEO				
	INNERDUCT	1/4"	1/4"		1/4" 1/4"
	CONDUIT SIZE	4"	4"	2"	4" (E)

(E) = EXIST CONDUIT OR CONDUCTOR

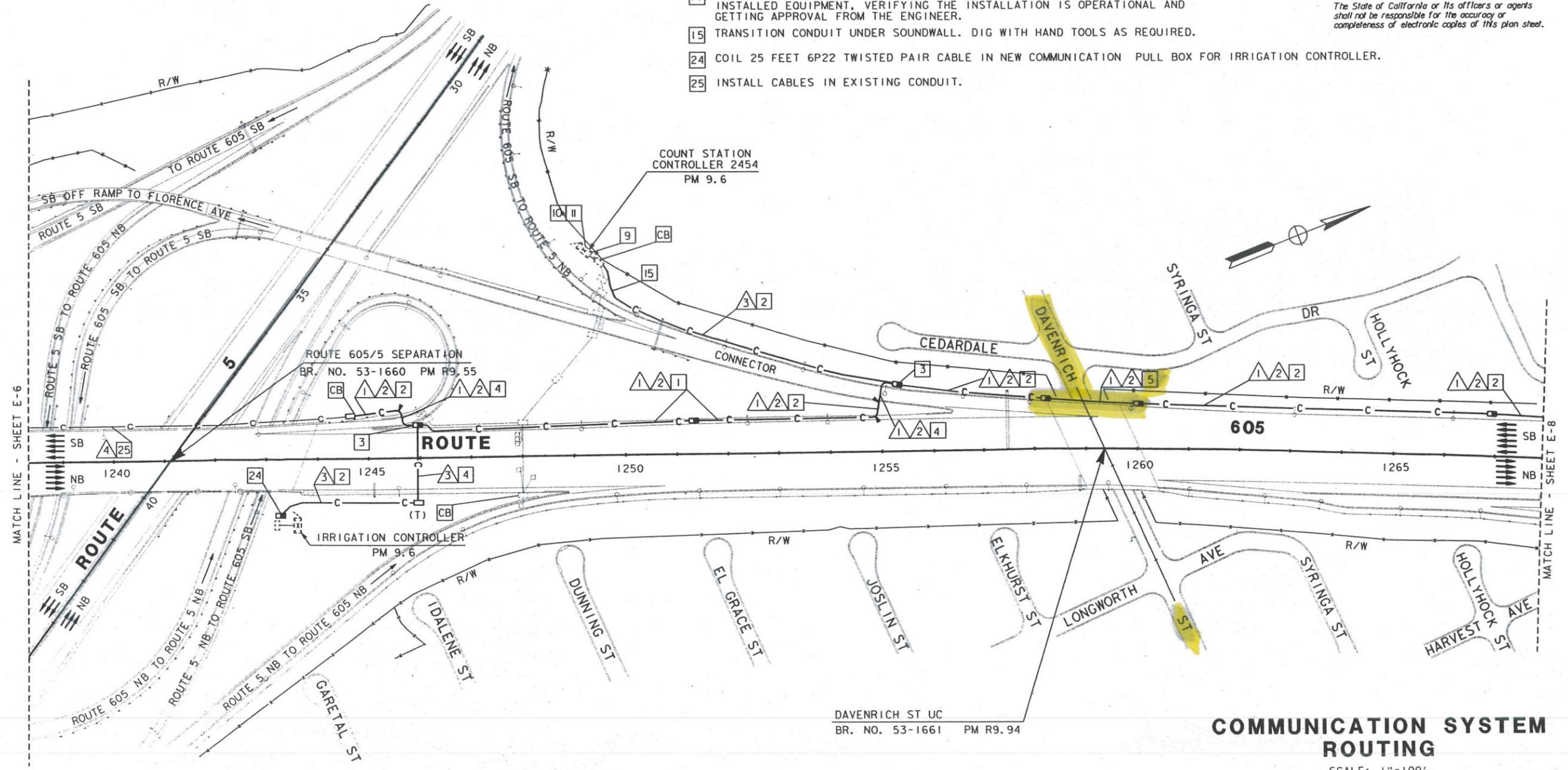
PROJECT NOTES: (THIS SHEET ONLY)

- 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.
- 5 INSTALL CONDUIT(S) ON STRUCTURE. SEE SHEETS C-1 TO C-9 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.
- 15 TRANSITION CONDUIT UNDER SOUNDWALL. DIG WITH HAND TOOLS AS REQUIRED.
- 24 COIL 25 FEET 6P22 TWISTED PAIR CABLE IN NEW COMMUNICATION PULL BOX FOR IRRIGATION CONTROLLER.
- 25 INSTALL CABLES IN EXISTING CONDUIT.

DATE REVISIED BY
 3/95 ES
 DATE REVISIED BY
 3/95 JZ

DESIGN OVERSIGHT
 PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans



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



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 DGN FILE => /usr/gp250/P3/71209au07.dgn

CU 07396 EA 1209A1

E-7

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	605	R7.8/R20.2	81	141

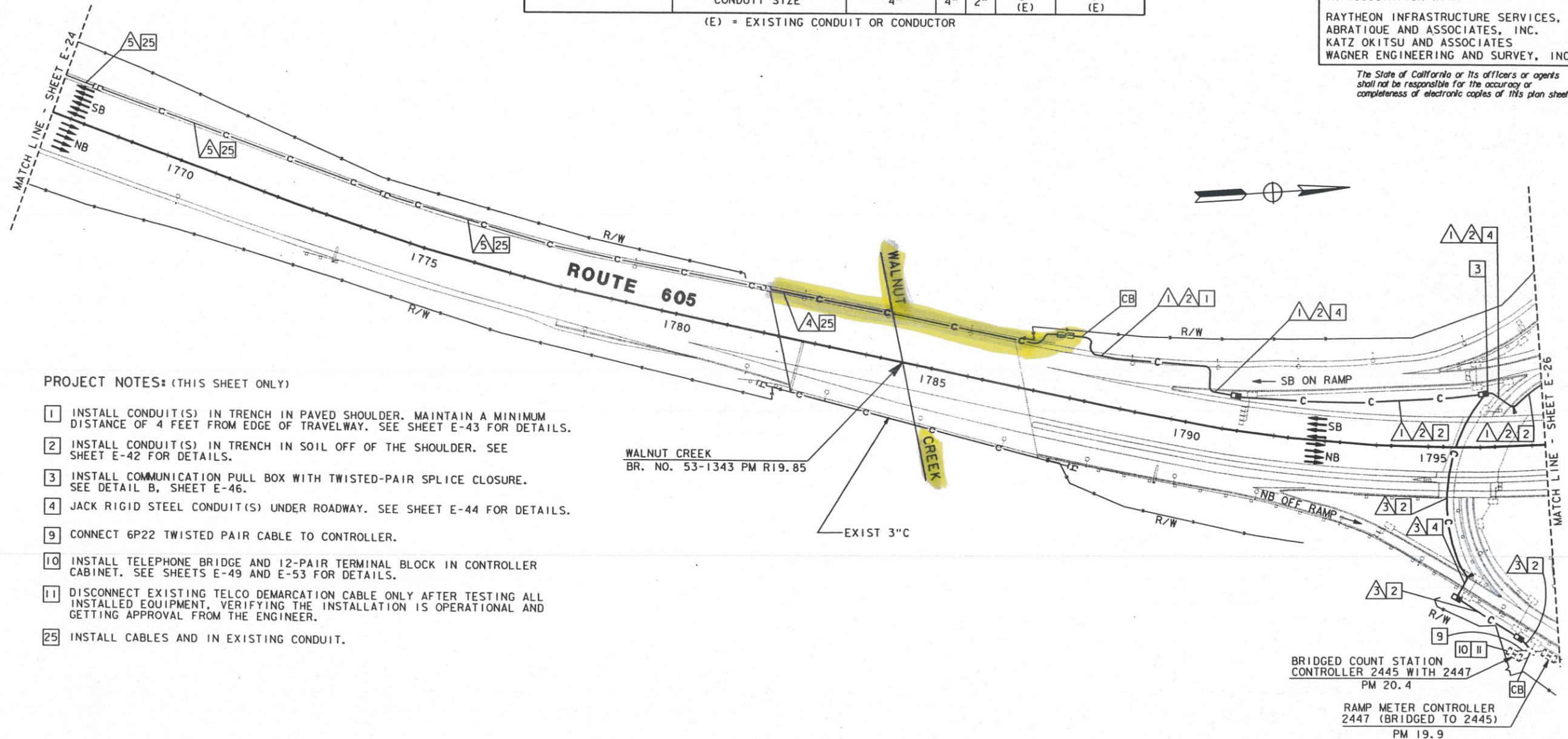
Elia G. Saghir
 REGISTERED ELECTRICAL ENGINEER (Date)
 4/3/95
 PROFESSIONAL ENGINEER
 ELIA G. SAGHIR
 No. 014922
 Exp. 6/30/95
 ELECTRICAL
 STATE OF CALIFORNIA

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.

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CONDUCTOR TYPE	FUNCTION	RUN				
		1	2	3	4	5
50P22 CABLE	DATA /PHONE	I			I	
6P22 CABLE	DATA /PHONE			I		
24SMFO CABLE	VIDEO /DATA	I			I	
12SMFO CABLE	SH VIDEO		I			I
	INNERDUCT	1/4"	1/4"		1/4"	1/4"
	CONDUIT SIZE	4"	4"	2"	3"	4"

(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.

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.



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

