

SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA



ITEM: 3.42
(ID # 21769)

MEETING DATE:
Tuesday, July 11, 2023

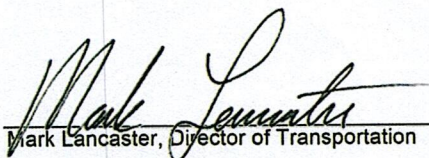
FROM : TLMA-TRANSPORTATION:

SUBJECT: TRANSPORTATION AND LAND MANAGEMENT AGENCY/TRANSPORTATION:
Approve Contract Change Order Nos. 11 and 12 – Between the County of Riverside and Granite Construction Company for the Construction of Jurupa Road/Union Pacific Railroad Grade Separation Project, District 2. [\$205,000 Total Cost – State Funds 100%]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve Contract Change Order Nos. 11 and 12 with Granite Construction Company on the Jurupa Road/Union Pacific Railroad Grade Separation Project, and authorize the Chair of the Board to execute the same; and
2. Authorize the Transportation Department to issue Contract Change Order Nos. 11 and 12 with Granite Construction Company on the Jurupa Road/Union Pacific Railroad Grade Separation Project.

ACTION: Policy


Mark Lancaster, Director of Transportation 5/22/2023

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Perez, seconded by Supervisor Jeffries and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Spiegel, Perez and Gutierrez
Nays: None
Absent: Washington
Date: July 11, 2023
xc: Trans.

Kimberly A. Rector
Clerk of the Board

By: 
Deputy



**SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE,
STATE OF CALIFORNIA**

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost
COST	\$ 205,000	\$ 0	\$ 205,000	\$ 0
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0
SOURCE OF FUNDS: SB-132 (100%). There are no General Funds used in this project.			Budget Adjustment:	N/A
			For Fiscal Year:	23/24

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

Summary

By Minute Order 3.43 of July 20, 2021, the Board of Supervisors entered into a contract with Granite Construction Company, of Indio, California for the Construction of the Jurupa Road/Union Pacific Railroad Grade Separation Project, in the City of Jurupa Valley.

The authorized amount of the contract was \$64,790,010. The total amount of Contract Change Order No. 11 is \$0.00 (0.00% of the original contract amount) and the total amount of Contract Change Order No. 12 is \$205,000 (0.32% of the original contract amount), which exceeds the maximum change order amounts that can be authorized by the Director of Transportation and requires Board of Supervisors approval in accordance with Resolution No. 2019-035.

Contract Change Order No. 11 directs the Contractor to implement the Caltrans Holiday schedule as the project calendar.

Contract Change Order No. 12 compensates the Contractor for the extra costs associated with the additional Southern California Edison (SCE) work that was not indicated and unforeseen on the original bid documents but are now shown on the final design plans.

Not including this Contract Change Order, the Transportation Department has issued 9 Contract Change Orders to date totaling \$6,663,884.90 (10.29% of the original contract amount), which was the result of:

- o Lead and asbestos material disposal: \$39,456
- o Storm Drain redesign: \$25,230
- o Differing site conditions, buried man-made objects and miscellaneous extra work: \$100,000
- o Establish Dispute Resolution Board (DRB): \$36,000
- o Compliance with the Construction General Permit: \$706,750
- o Removal and disposal of contaminated soil material: \$638,449
- o Structural Steel: \$1,908,000
- o Differing site conditions, buried man-made objects and miscellaneous extra work: \$210,000
- o Contractor's Time Impact Analysis (TIA) and time related overhead (TRO): \$3,000,000

**SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE,
STATE OF CALIFORNIA**

Impact on Residents and Businesses

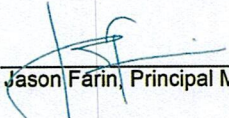
The project will provide uninterrupted and efficient access for motorists, residents, businesses, pedestrians and emergency vehicles in the area. Additionally, the project will eliminate conflicts between railroad operations and vehicular traffic.

Additional Fiscal Information

Contract Change Order Nos. 11 and 12 brings the total current authorized contract change order amount to \$6,868,884.90, which is 10.60% over the originally authorized contract amount of \$64,790,010.

ATTACHMENTS:

Change Order Report
Vicinity Map
Letters of Transmittal


Jason Farin, Principal Management Analyst

7/5/2023


Kristine Bell-Valdez, Supervising Deputy County Counsel

6/21/2023

LETTER OF TRANSMITTAL

**Local Agency: County of Riverside
Transportation Department**

DATE: May 11, 2023

**File: Jurupa Road/Union Pacific
Grade Separation Project
In the City of Jurupa Valley
W.O. No.: C8-0060
State-Federal No.: SB132L 6054 (086)
C.C.O.: 11**

TO: Mark Lancaster

From: Cindi Wachi

\$0.00 (0.00% of the original contract amount of \$64,790,010.00)

This contract change order directs the contractor to implement the Caltrans Holiday schedule as the project calendar.

Since the contract documents did not specify a Working Day Calendar, the County deferred to follow the Caltrans Holiday schedule per Section 1-1.07B, "Glossary," of the 2018 Caltrans Standard Specifications. All CPM update schedules shall reflect the Caltrans Holiday schedule.

The amount of this Contract Change Order is \$0.00. The accumulation of all Contract Change Orders thus far, including this one, is \$6,663,884.90.

Previous Contract Change Order Amounts Approved:

See C.C.O. History
(attached)

\$6,663,884.90.

This Contract Change Order was discussed with County Staff, and they gave their concurrence to this change.

Adjustment of Time: 0 working days

JUL 11 2023

3.42

ESTIMATE OF COST	
Items	\$0.00
Force Account	\$0.00
Agreed Price	\$0.00
Adjustment	\$0.00
TOTAL	\$0.00

Cindi A. Wachi

Cindi Wachi
 Engineering Division Manger

Joseph Smith

Joseph Smith
 Resident Engineer

CCO Category		
AFA	Anticipated Force Account	
CFC	Changed Field Condition	
CME	Contract Management Error	
DO	Design Omission	
OAM	Outside Agency Mandate	
RWO	Right-of-Way Obligation	
SE	Survey Error	
UB	Upgrade/Betterment	X
UI	Utility Interference	



**COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT**

SHEET 1 OF 1 SHEETS

Contract Change Order No. 011

CONTRACT: Jurupa Road/Union Pacific Railroad Grade Separation Project In the City of Jurupa Valley	WORK ORDER NO.	<u>C8-0060</u>
	CALTRANS EA NO.	<u>N/A</u>
	LOCAL-FED AID NO.	<u>N/A</u>
	STATE-FED AID NO.	<u>SB132L 6054(086)</u>

TO: Granite Construction Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

No Cost Change Order

Contractor shall follow the Caltrans holiday schedule for working days as defined in Section 1-1.07B, "Glossary," of the 2018 Caltrans Standard Specifications. This calendar shall be in effect starting from the first working day and through the duration of the project.

Holiday	Date observed
Every Sunday	Every Sunday
New Year's Day	January 1st
Birthday of Martin Luther King, Jr.	3rd Monday in January
Lincoln's Birthday	February 12th
Washington's Birthday	3rd Monday in February
Cesar Chavez Day	March 31st
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Columbus Day	2nd Monday in October
Veterans Day	November 11th
Thanksgiving Day	4th Thursday in November
Day after Thanksgiving Day	Day after Thanksgiving Day
Christmas Day	December 25th

If January 1st, February 12th, March 31st, July 4th, November 11th, or December 25th falls on a Sunday, the Monday following is a holiday. If November 11th falls on a Saturday, the preceding Friday is a holiday.

Any time adjustment associated with this change shall be incorporated into the monthly CPM schedule updates.

Estimated Cost: Decrease \$ _____ Increase \$ _____

Participating: Yes: No: N/A:

WE, the undersigned contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. By reason of this proposed change 0 days adjustment of time will be allowed.

DocuSigned by:
 Accepted Mu'in Mustafa 4/26/2023
3A978DE50C7E58A
 Contractor Date

Cindi A. Wachl 05/11/2023
 Approval Recommended Date
 Cindi Wachl, Engineering Division Manager

Mark Lancaster 5/16/2023
 Approved Date
 Mark Lancaster, Director of Transportation

NOTE: This change order is not effective until approved by County. If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest with the time therein specified.

[Signature] 7/11/23
 Approved Date
 Chairman, Riverside County Board of Supervisors

ATTEST:
 KIMBERLY A. RECTOR, Clerk
 By [Signature]
 DEPUTY

FORM APPROVED COUNTY COUNSEL
 BY: [Signature]
 DANIELLE D. MALAND

JUL 11 2023 3.42

Jurupa Road Grade Separation Project
 Contract CCO History

Contract No. 21-05-013
 Work Order No. C8-0060, SB132L 6054(086)
 Contract Amount \$64,790,010.00

Single Maximum CCO \$210,000.00
 Maximum CCO's \$6,479,001.00

CCO Category Legend	
AFA	Anticipated Force Account
CFC	Changed Field Condition
CME	Contract Management Error
DO	Design Omission
OAM	Outside Agency Mandate
RWO	Right-of-Way Obligation
SE	Survey Error
UB	Upgrade/Betterment
UI	Utility Interference

CCO No.	Amount This CCO	Authority	Cumulative CCO's	% Original Authorized	Cumulative CCO %	CCO Category	Classification
1	\$39,455.90	Director	\$39,455.90	0.06%	0.06%	DO	Avoidable
2	\$0.00	Director	\$39,455.90	0.00%	0.06%	CFC	Unavoidable
4	\$100,000.00	Director	\$139,455.90	0.15%	0.22%	AFA	Unavoidable
3	\$25,230.90	Director	\$164,686.80	0.04%	0.25%	UI	Unavoidable
6	\$36,000.00	Director	\$200,686.80	0.06%	0.31%	CFC	Unavoidable
5	\$706,749.60	Board	\$907,436.40	1.09%	1.40%	CFC	Unavoidable
8	\$638,448.50	Board	\$1,545,884.90	0.99%	2.39%	CFC	Unavoidable
9	\$1,908,000.00	Board	\$3,453,884.90	2.94%	5.33%	CFC	Unavoidable
4S1	\$210,000.00	Director	\$3,663,884.90	0.32%	5.66%	CFC	Unavoidable
13	\$3,000,000.00	Board	\$6,663,884.90	4.63%	10.29%	CFC	Unavoidable
11	\$0.00	Board	\$6,663,884.90	0.00%	10.29%	CFC	Unavoidable
\$6,663,884.90				10.29%			

New Authorized Contract Total \$71,453,894.90
 Total CCO Dollars To Date \$6,663,884.90
 Total % Increased by CCO's 10.29%

LETTER OF TRANSMITTAL

Local Agency: County of Riverside
Transportation Department

DATE: May 15, 2023

File: Jurupa Road/Union Pacific
Grade Separation Project
In the City of Jurupa Valley
W.O. No.: C8-0060
State-Federal No.: SB132L 6054 (086)
C.C.O.: 12

TO: Mark Lancaster

From: Cindi Wachi

\$205,000.00 (0.32% of the original contract amount of \$64,790,010.00)

This contract change order compensates the contractor for the extra costs associated with the additional Southern California Edison (SCE) work that was not indicated and unforeseen on the original bid documents but are now shown on the final design plans. The final design for the work at the pump station and the irrigation service at Jurupa Rd/Felspar St are still being finalized by SCE. Revised design plans have been provided to the contractor. The contractor shall install additional conduits to the SCE runs and add services to meet the project demands per these updated drawings.

Conduits and services will be extended and/or added at:

- TD #1811683: Pump Station
- TD #1894399: Comer of Connector Rd & Jurupa Rd
- TD #1903809: Connector Rd
- TD #1919827: Northeast corner of Jurupa Rd and Pedley Rd
- TD #1924044: Miller Driveway & Connector Rd
- TD #1967394: Southwest corner of Van Buren Blvd & Connector Rd
- TD #1967548: Northwest corner of Felspar St & Jurupa Rd
- TD #2053119: Facilities behind Stater Bros

The contractor shall also remove, haul away, and dispose of any temporary patching placed by the electrical contractor and prepare any grading for paving.

The contractor submitted their proposed cost. The County reviewed and performed an Independent Cost Analysis. Work will be performed at Extra Work at Force Account

JUL 11 2023

File: Jurupa Road/Union Pacific Grade Separation Project
In the City of Jurupa Valley
W.O. No.: C8-0060
C.C.O. No. 12
Page 2

since no agreement was reached. Final costs will be determined after all extra work bills are reviewed and paid. All documentation is attached and in the project files.

The amount of this Contract Change Order is \$205,000.00. The accumulation of all Contract Change Orders thus far, including this one, is \$6,868,884.90.

Previous Contract Change Order Amounts Approved:

See C.C.O. History \$6,663,884.90
 (attached)

This Contract Change Order was discussed with County Staff and has their concurrence.

Adjustment of Time: 0 working days

ESTIMATE OF COST

Items	\$0.00
Force Account	\$205,000.00
Agreed Price	0.00
Adjustment	\$0.00
TOTAL	\$205,000.00

Cindi A. Wachi

Cindi Wachi
 Engineering Division Manger

Joseph Smith

Joseph Smith
 Resident Engineer

CCO Category		
AFA	Anticipated Force Account	
CFC	Changed Field Condition	X
CME	Contract Management Error	
DO	Design Omission	
OAM	Outside Agency Mandate	
RWO	Right-of-Way Obligation	
SE	Survey Error	
UB	Upgrade/Betterment	
UI	Utility Interference	



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 012

CONTRACT: Jurupa Road/Union Pacific Railroad
Grade Separation Project
In the City of Jurupa Valley

WORK ORDER NO. C8-0060
CALTRANS EA NO. N/A
LOCAL-FED AID NO. N/A
STATE-FED AID NO. SB132L 6054 (086)

TO: Granite Construction Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Estimate of Extra Work at Force Account:

As directed by the Engineer and in accordance with Section 9-1.04, "Force Account," of the Standard Specifications, compensate the contractor for the costs to be incurred for the additional Southern California Edison (SCE) work not indicated on the original contract documents. The contractor shall install additional conduits to the SCE runs and services to meet project demands per the attached drawings - see Attachment A.

Conduits and services will be extended and/or added at:

- TD #1811683: Pump Station
- TD #1894399: Corner of Connector Rd & Jurupa Rd
- TD #1903809: Connector Rd
- TD #1919827: Northeast corner of Jurupa Rd and Pedley Rd
- TD #1924044: Miller Driveway & Connector Rd
- TD #1967394: Southwest corner of Van Buren Blvd & Connector Rd
- TD #1967548: Northwest corner of Felspar St & Jurupa Rd
- TD #2053119: Facilities behind Stater Bros

The contractor shall also be compensated to remove, haul away, and dispose of any temporary patching placed by the electrical contractor, and prepare any grading for paving.

As determined by the Engineer, provide all additional labor, material, equipment, tools, and incidentals to add additional conduits to the SCE runs and the additional services per the final drawings, to remove and haul any temporary patching, and to prepare grading for paving. All work shall be done in accordance with the contract documents.

Estimate of Force Account Work = \$205,000.00

This change order does not affect the controlling activity. No time adjustment is warranted.

Estimated Cost: Decrease \$ Increase \$ 205,000.00

Participating: Yes: No: N/A:

WE, the undersigned contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. By reason of this proposed change 0 days adjustment of time will be allowed.

Accepted Muin Mustafa Granite Construction Company Date

NOTE: This change order is not effective until approved by County. If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest with the time therein specified.

Cindi A. Wachl 04/10/2023
Approval Recommended Date
Cindi Wachl, Engineering Division Manager

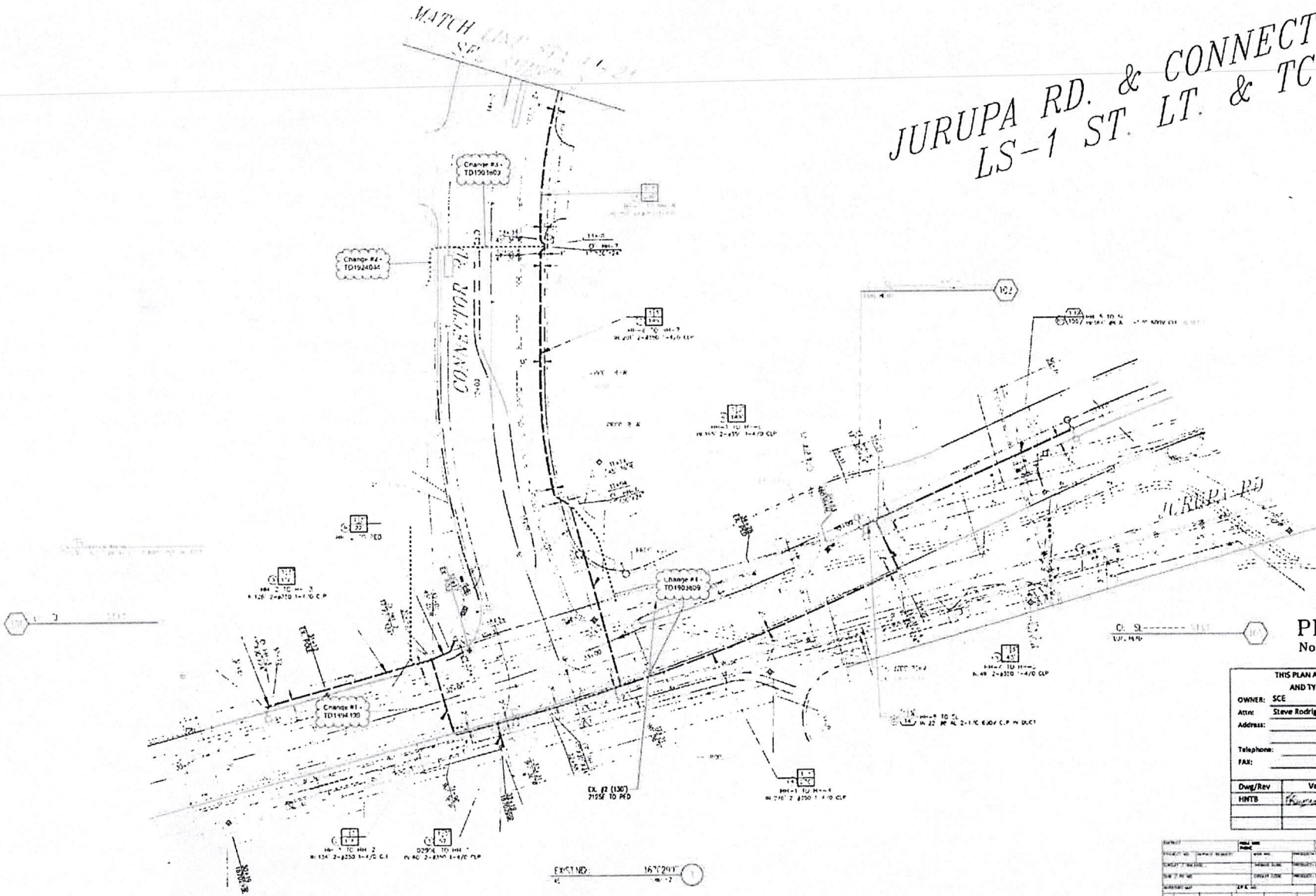
Mark Lancaster 5/16/2023
Approved Date
Mark Lancaster, Director of Transportation

[Signature] 7/11/23
Approved Date
Chairman, Riverside County Board of Supervisors

FORM APPROVED COUNTY COUNSEL
BY: [Signature]
DANIELLE D. MALAND

ATTEST:
KIMBERLY A. RECTOR, Clerk
By [Signature]
DEPUTY

JURUPA RD. & CONNECTOR RD. LS-1 ST. LT. & TC PED



JURUPA ROAD/
UNION PACIFIC RAILROAD
GRADE SEPARATION
CDD #012
ATTACHMENT A
SHEET 1 OF 13

PRELIMINARY
Not For Construction

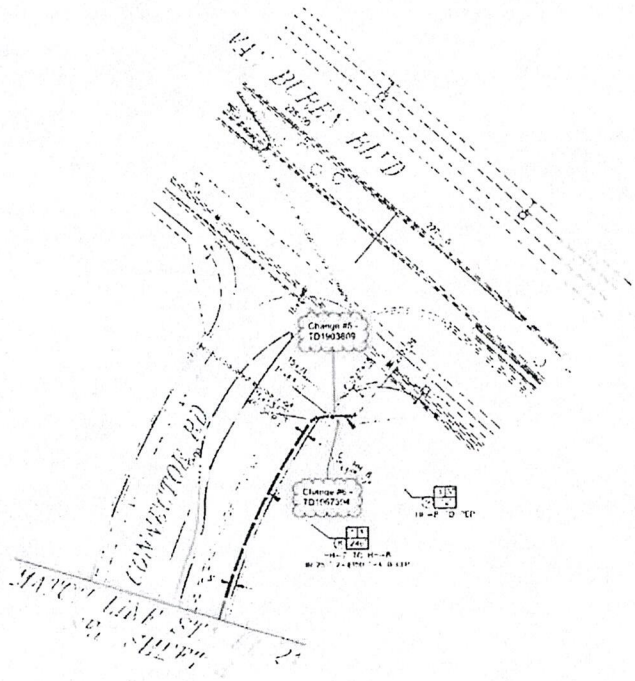
THIS PLAN APPROVED AS TO LOCATION AND TYPE OF SUBSTRUCTURES

OWNER: SCE
 Attn: Steve Rodriguez
 Address: _____
 Telephone: _____
 FAX: _____

Draw/Rev	Verification Signature	Date
HNTB	<i>[Signature]</i>	3/29/2021

DATE	APPROVED BY	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	PROJECT NO.	PROJECT NAME	DATE

VAN BUREN & CONNECTOR RD. TC PED



JURUPA ROAD
UNION PACIFIC RAILROAD
GRADE SEPARATION
CCO #012
ATTACHMENT A
SHEET 2 OF 13

PRELIMINARY
Not For Construction

This Plan Approved as to Location and Type of Electric Substructures

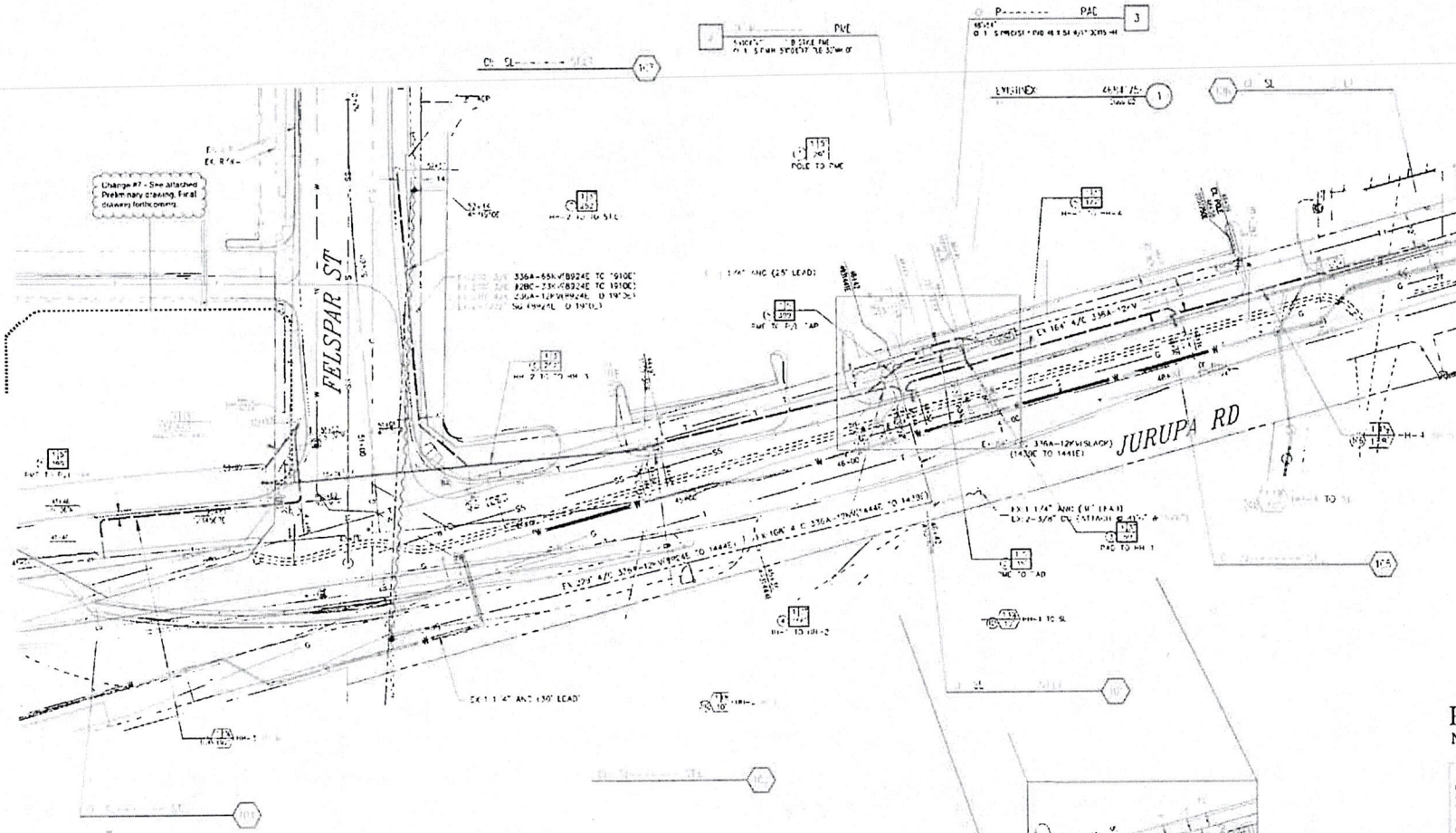
Drawn by: _____
 Date: _____
 Address: _____
 Telephone: _____
 File: _____

Orig./Rev.	Developer's Signature	Date
Original		
Rev.		
Rev.		

C-NANTS IN THESE PLANS ARE HELD BY THE CUSTOMER AND NOT THE ENGINEER OR ARCHITECT

PROJECT	DATE	SCALE	SHEET NO.	TOTAL SHEETS

SHEET 2 OF 2



JURUPA RD. & FELSPAR ST.
 LS-1 ST.LT. & PED

SUPPLEMENTAL PROJECT INFORMATION, SCE PLANS, Sheet 3 of 4

JURUPA ROAD/
 UNION PACIFIC RAILROAD
 GRADE SEPARATION
 CDD #012
 ATTACHMENT A
 SHEET 3 OF 13

**PRELIMINARY
 Not For Construction**

THIS PLAN APPROVED AS TO LOCATION AND TYPE OF ELECTRICAL SUBSTRUCTURES

Drawn by: _____
 Address: _____
 Signature: _____
 Title: _____

Rev.	Revised By	Revised Date

CHECKS IN THESE SPACES
 AN APPROVED: _____ DATE: _____
 CUSTOMER: _____
 DATE: _____

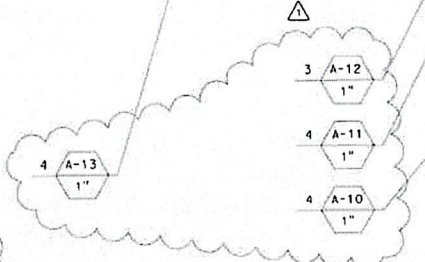
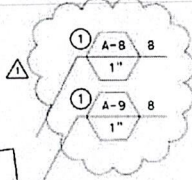
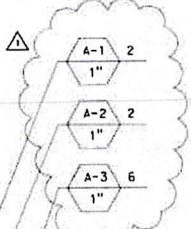
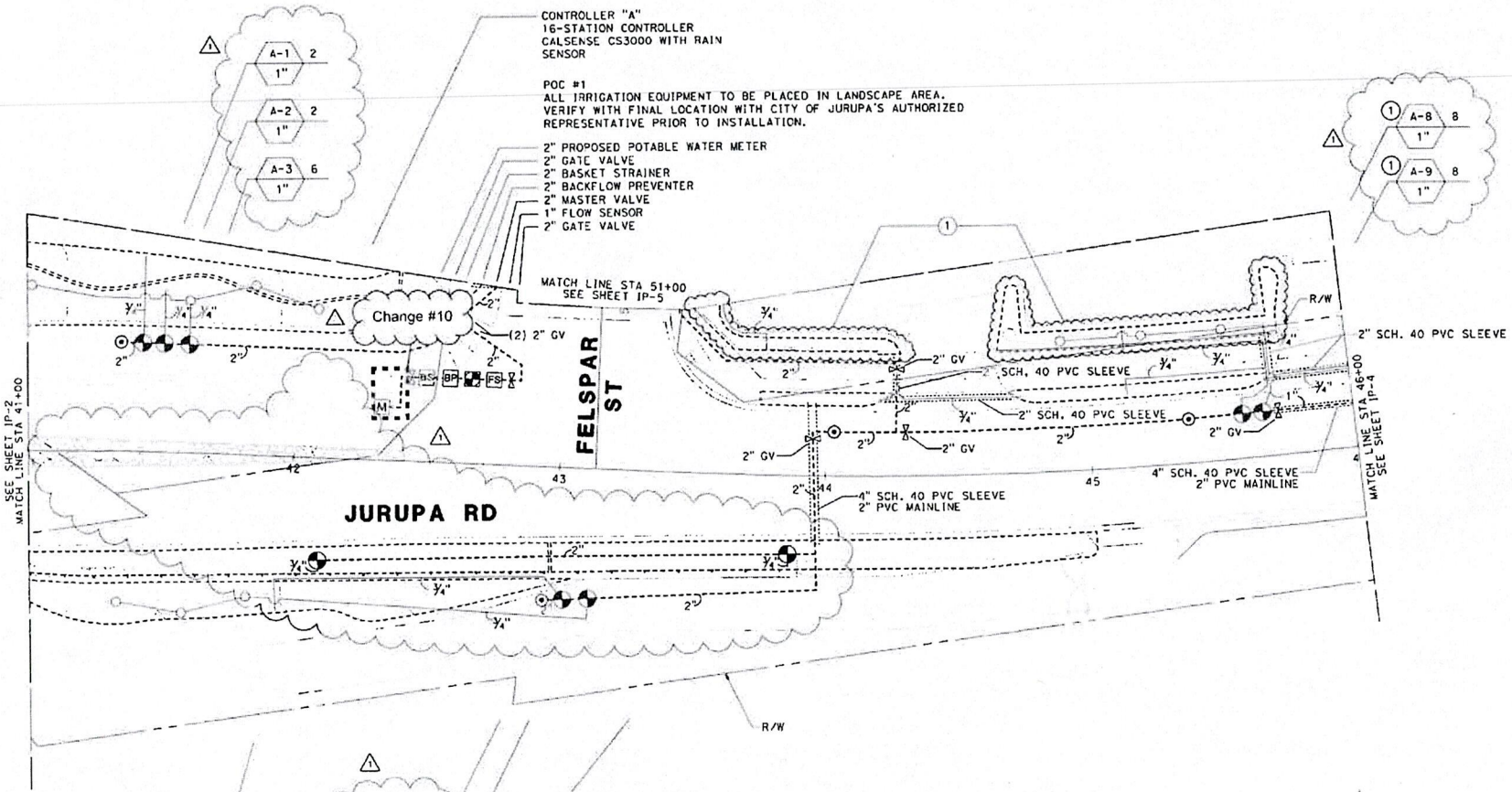
24 Nov 1993

NO.	DATE	BY	REVISION

PROPOSED CONSTRUCTION EQUIPMENT

NO.	DATE	BY	REVISION

DESIGNED BY: _____
 CHECKED BY: _____
 APPROVED BY: _____
 SOUTH CALIFORNIA Edison COMPANY



CONTROLLER "A"
16-STATION CONTROLLER
CALSENSE CS3000 WITH RAIN
SENSOR

POC #1
ALL IRRIGATION EQUIPMENT TO BE PLACED IN LANDSCAPE AREA.
VERIFY WITH FINAL LOCATION WITH CITY OF JURUPA'S AUTHORIZED
REPRESENTATIVE PRIOR TO INSTALLATION.

2" PROPOSED POTABLE WATER METER
2" GATE VALVE
2" BASKET STRAINER
2" BACKFLOW PREVENTER
2" MASTER VALVE
1" FLOW SENSOR
2" GATE VALVE

MATCH LINE STA 51+00
SEE SHEET IP-5

SEE SHEET IP-2
MATCH LINE STA 41+00

MATCH LINE STA 46+00
SEE SHEET IP-4

JURUPA RD

FELSPAR ST

NOTE:

1 CONTRACTOR SHALL INVESTIGATE THE EXISTING ADJACENT OFF-SITE IRRIGATION SYSTEM, THEN SUBMIT SHOP DRAWINGS TO MODIFY THE SYSTEMS WITHIN PRIVATE AREAS TO ENSURE A COMPLETE AND FULLY FUNCTIONING IRRIGATION SYSTEM FOR ALL PRIVATE AREAS IMPACTED BY THE PROJECT IMPROVEMENTS. IRRIGATION EQUIPMENT FOR PRIVATE AREAS SHALL CONNECT TO THE APPROPRIATE PRIVATE IRRIGATION CONTROLLER AND WATER SUPPLY. THE CONTRACTOR SHALL UPGRADE THE WATER SUPPLY AND/OR IRRIGATION CONTROLLER TO ACCOMMODATE THE IRRIGATION CHANGES. IRRIGATION EQUIPMENT FOR OFF-SITE IRRIGATION WILL BE PLACED WITHIN THE APPROPRIATE PRIVATE OFF-SITES AREAS.

JURUPA ROAD/
UNION PACIFIC RAILROAD
GRADE SEPARATION
CCO #012
ATTACHMENT A
SHEET 5 OF 13

REVISIONS			
REV	BY	DESCRIPTION	APPR DATE
1	GR	UPDATE MEDIUM LANDSCAPE	MA 8/16 2022

PREPARED BY
DAVID H. TATSUMI
DATE 08-16-2022



COUNTY OF RIVERSIDE		SHEET No.
IRRIGATION PLAN		IP-3
JURUPA ROAD GRADE SEPARATION		SHEET 476 OF 565

BORDER LAST REVISED 09/2017

RELATIVE BORDER SCALE
15 IN INCHES



USERNAME -> MUSER#
DDN FILE -> REQUEST#

NO 00-0000

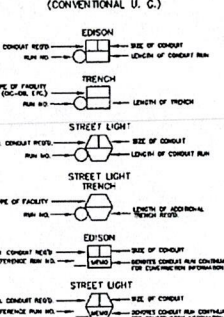
COUNTY
FILE No.

DATE PLOTTED -> 09-16-22 TIME PLOTTED -> 9:18AM

CONSTRUCTION NOTES

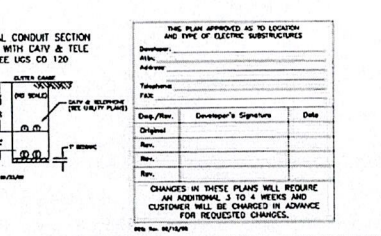
- 1. ALL CONDUIT SHALL BE PERMITTED TO BE USED IN THE MANNER INTENDED BY THE MANUFACTURER.
- 2. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 3. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 4. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 5. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 6. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 7. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 8. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 9. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 10. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.

LEGEND OF CONDUIT SYMBOLS (CONVENTIONAL U. C.)

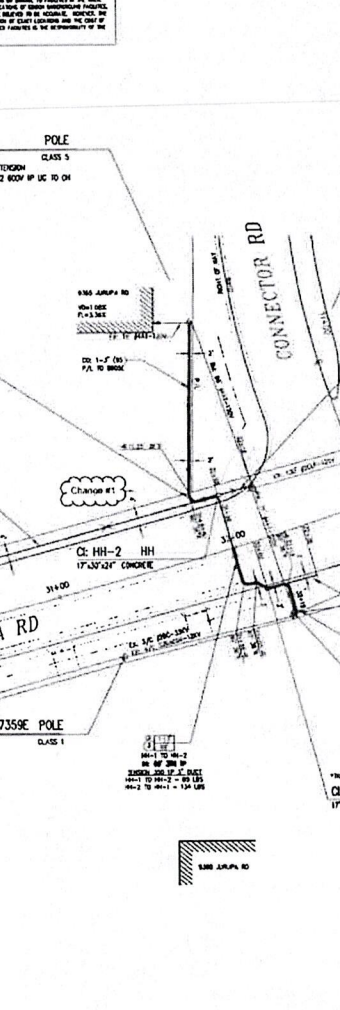


LEGEND CODE DEFINITIONS

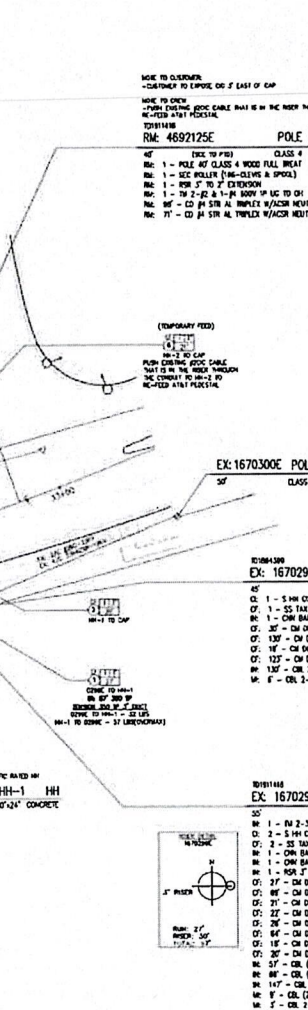
- 1. ALL CONDUIT SHALL BE PERMITTED TO BE USED IN THE MANNER INTENDED BY THE MANUFACTURER.
- 2. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 3. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 4. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 5. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 6. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 7. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 8. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 9. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
- 10. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.



THE PLAN APPROVED AS TO LOCATION AND TYPE OF ELECTRIC STRUCTURES



FINAL DESIGN APPROVED FOR CONSTRUCTION



PROJECT REQUIREMENTS (Y/N)

Requirement	Y/N
DESIGN ELEMENT REQUIRED	<input type="checkbox"/>
PERMITS REQUIRED	<input type="checkbox"/>
UC DIAL ONLY WORK ORDER	<input type="checkbox"/>
ONLY WORK ORDER	<input type="checkbox"/>
PERMIT TYPE: ELEC/AV/PLUMB/CLC	<input type="checkbox"/>
OUTAGE REQUIRED	<input type="checkbox"/>
OUTAGE DATE: _____ TIME: _____	
TRAFFIC CONTROL REQUIRED	<input type="checkbox"/>
PEDESTAL TRAFFIC CONTROL REQUIRED	<input type="checkbox"/>
CONFORMANCE LETTER REQUIRED	<input type="checkbox"/>
ENVIRONMENTAL REQUIREMENTS DOCUMENT (EOD) REQUIRED	<input type="checkbox"/>
CD #48 (L)N) REQ'D	<input type="checkbox"/>
DC ALERT APP	<input type="checkbox"/>
VERIFIED ACTIVE AND CONFIRMED USA RIGHTS	<input type="checkbox"/>
UTLTIEST NOTIFIED	<input type="checkbox"/>

SIZE NOTES

Item	Size
CONDUIT	1 1/2"
POLE	30"
CONDUIT	1 1/2"
CONDUIT	1 1/2"
CONDUIT	1 1/2"



UNDERGROUND SERVICE ALERT

Contact USA
Dial 811 or 888-422-4113
www.811.org/contact
For Underground Location
See Working Deep Before You Dig

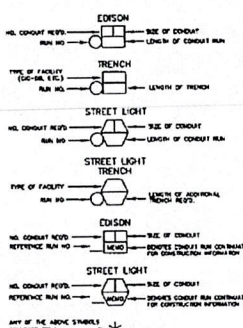
EDISON

143592_1.01

CONSTRUCTION NOTES

1. All conduit shall be installed in a trench... (text continues)
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20. All conduit shall be installed in a trench... (text continues)

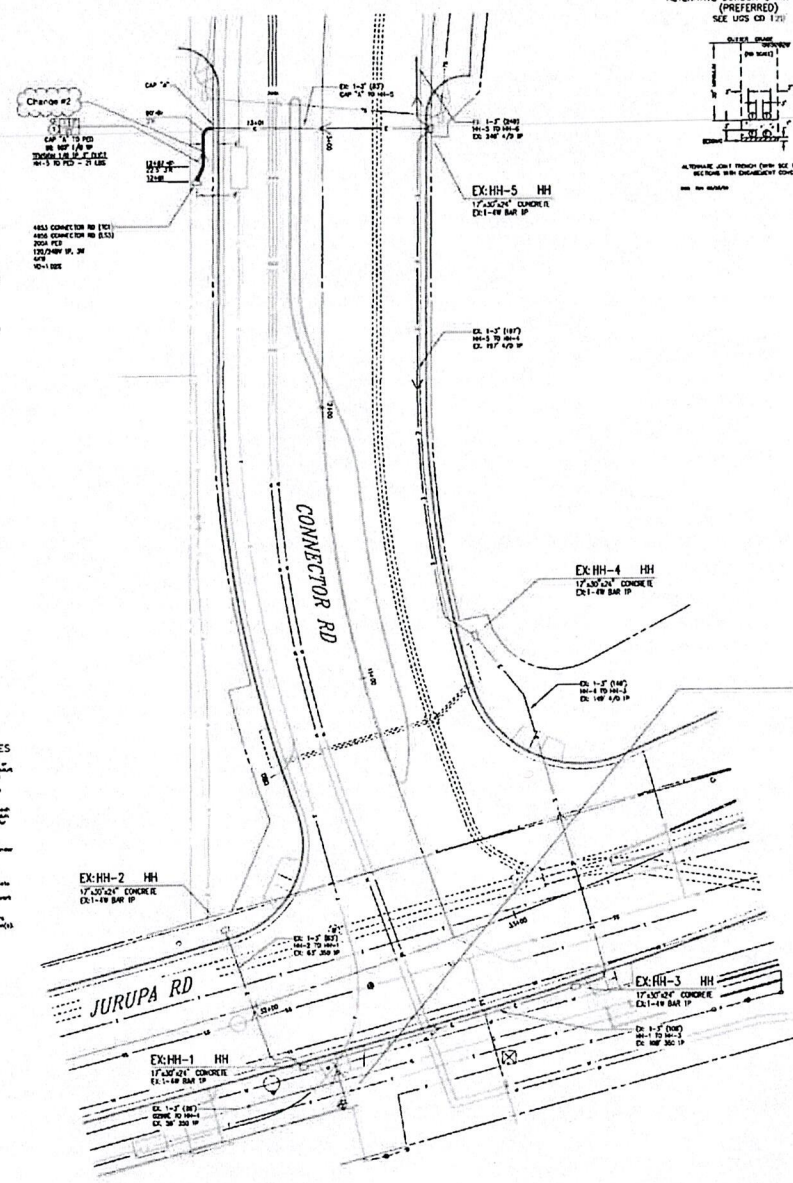
LEGEND OF CONDUIT SYMBOLS (CONVENTIONAL U. G.)



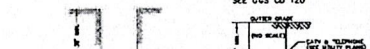
EDISON
TRENCH
STREET LIGHT
EDISON
TRENCH
STREET LIGHT

LEGEND CODE DEFINITIONS

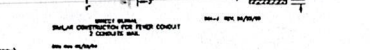
1. All conduit shall be installed in a trench... (text continues)
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20. All conduit shall be installed in a trench... (text continues)



ALTERNATE CONDUIT BANK SECTION (PREFERRED) SEE UCS CD 1-2



TYPICAL CONDUIT BANK SECTION SEE UCS CD 1-2



TYPICAL CONDUIT SECTION SEE UCS CD 1-2



PROJECT REQUIREMENTS (Y/N)

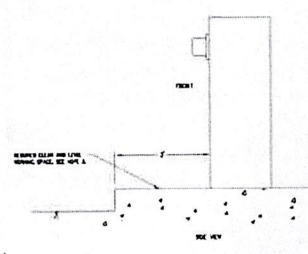
EDISON FACILITY REQUIRED	<input type="checkbox"/>
EDISON ONLY WORK ORDER	<input type="checkbox"/>
PERMIT REQUIRED	<input type="checkbox"/>
CONFORMANCE LETTER REQUIRED	<input type="checkbox"/>
ENVIRONMENTAL REQUIREMENTS DOCUMENT REVIEW REQUIRED	<input type="checkbox"/>
CDG (L) REQUIRED	<input type="checkbox"/>
DIS ALERT APP	<input type="checkbox"/>
VERIFIED ACTIVE AND COMPLETED USA TICKETS	<input type="checkbox"/>
UTILITIES NOTIFIED	<input type="checkbox"/>

SEE INDEX

REVISIONS	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

JURUPA ROAD / UNION PACIFIC RAILROAD GRADE SEPARATION
CCO #12
ATTACHMENT A
SHEET 7 OF 13

Duct and Structure Inspector: PANEL CLEARANCE UNDERGROUND SERVICE CONNECTIONS C-600 VOLTS SEE ESR 3-16



NOTE: ALL ELECTRICAL BUILDS AND STRUCTURES WILL CONFORM TO GENERAL UNDERGROUND SERVICE CONNECTIONS... (text continues)

WARNING: THE EXPOSURE OF ANY LIVE PARTS NECESSARY TO MAKE... (text continues)

WHERE CONDUITS ARE PICKED UP FOR RETRIEVAL, CONDUIT SHALL BE BARRICADED AND FULL ROPS BE INSTALLED FROM TERMINAL TO TERMINAL.

EX-HH-1 HH
EX-HH-2 HH
EX-HH-3 HH
EX-HH-4 HH
EX-HH-5 HH

CONNECTIONS TO EXISTING SCE STRUCTURES

NOTE: ALL ELECTRICAL BUILDS AND STRUCTURES WILL CONFORM TO GENERAL UNDERGROUND SERVICE CONNECTIONS... (text continues)

WHERE CONDUITS ARE PICKED UP FOR RETRIEVAL, CONDUIT SHALL BE BARRICADED AND FULL ROPS BE INSTALLED FROM TERMINAL TO TERMINAL.

CONNECTIONS TO EXISTING SCE STRUCTURES

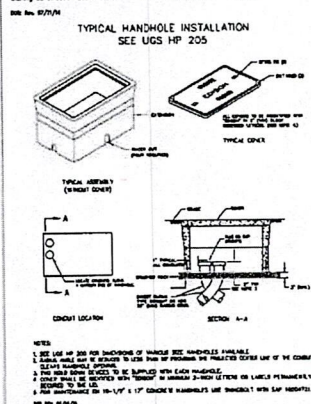
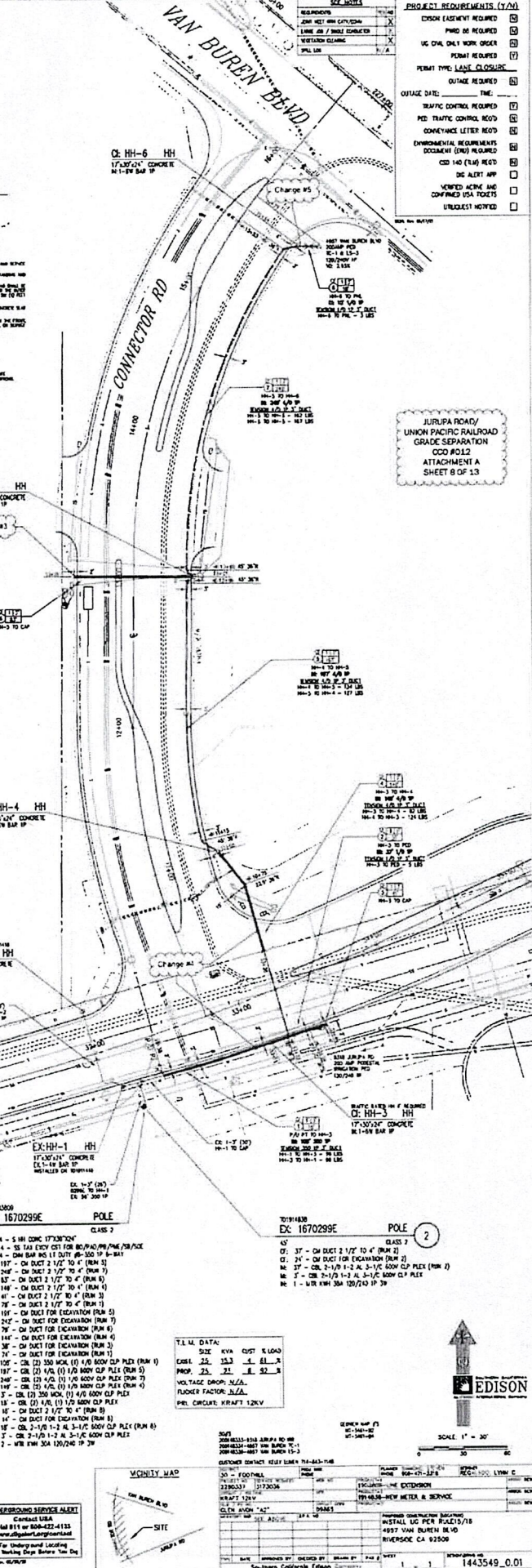
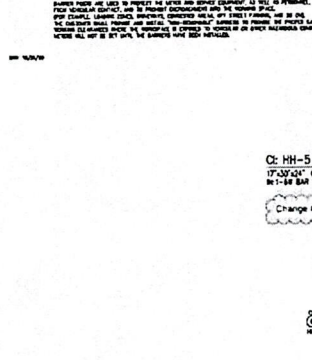
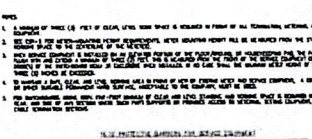
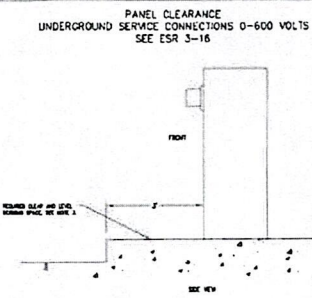
FINAL DESIGN APPROVED FOR CONSTRUCTION

SCALE: 1" = 20'

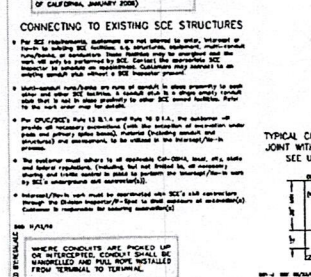
EDISON

1460101_0.01

CONSTRUCTION NOTES:
1. All electrical ducts and structures will conform to all applicable codes and standards, including but not limited to the following:
a. National Electrical Code (NEC) and National Fire Alarm Code (NFPA) as amended.
b. International Building Code (IBC) as amended.
c. Local codes and ordinances as applicable.
d. Manufacturer's instructions for all equipment.
2. All work shall be done in accordance with the approved construction methods and materials specified herein.
3. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.
4. The contractor shall maintain the site at all times and shall be responsible for any damage to existing structures or utilities.
5. The contractor shall provide a site access plan and shall be responsible for maintaining the same throughout the project.
6. The contractor shall provide a construction schedule and shall be responsible for meeting the same.
7. The contractor shall provide a quality assurance plan and shall be responsible for meeting the same.
8. The contractor shall provide a safety plan and shall be responsible for meeting the same.
9. The contractor shall provide a site restoration plan and shall be responsible for meeting the same.
10. The contractor shall provide a final report and shall be responsible for meeting the same.
11. The contractor shall be responsible for all safety and health matters during the project.
12. The contractor shall be responsible for all environmental matters during the project.
13. The contractor shall be responsible for all legal matters during the project.
14. The contractor shall be responsible for all cost matters during the project.
15. The contractor shall be responsible for all scheduling matters during the project.
16. The contractor shall be responsible for all communication matters during the project.
17. The contractor shall be responsible for all coordination matters during the project.
18. The contractor shall be responsible for all documentation matters during the project.
19. The contractor shall be responsible for all record keeping matters during the project.
20. The contractor shall be responsible for all other matters not specifically mentioned herein.
Duct and Structure Inspector: PHO RIVERA
Cabling Construction Coordinator: BAREL SACRIZO
Date: 02/27/14

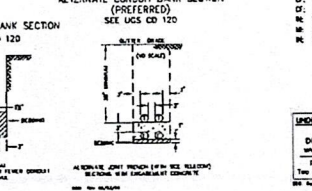
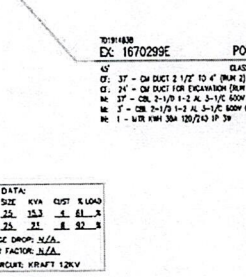


CONCRETE PRODUCTS
JENSEN PRECAST
14221 San Bernardino Ave., Fontana, CA 92335
Phone: (909) 350-1111
Fax: (909) 351-0100
OLDCASTLE PRECAST
16530 Norwalk Ave., Fontana, CA 92337
Phone: (909) 428-3700
Fax: (909) 428-3480
FOR HANDHOLE AND PALLETT MANUFACTURERS, SEE UGS HP 205.
Date: 02/27/14



CONNECTIONS TO EXISTING SCE STRUCTURES
1. All electrical ducts and structures will conform to all applicable codes and standards, including but not limited to the following:
a. National Electrical Code (NEC) and National Fire Alarm Code (NFPA) as amended.
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20. The contractor shall be responsible for all other matters not specifically mentioned herein.
WHERE CONDUITS ARE PICKED UP OR DROPPED OFF AT EXISTING STRUCTURES, THE CONDUITS SHALL BE PROTECTED BY A CONDUIT RING OR OTHER MEANS TO PREVENT DAMAGE TO THE CONDUITS AND TO THE EQUIPMENT AT THESE LOCATIONS.
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DETAILS ON SYSTEMS
EX-HH-2 HH
17"X30"X4" CONCRETE
EX-1-18 BAR 1P



PROJECT REQUIREMENTS (Y/N)

CRON ESTIMATE REQUIRED	<input checked="" type="checkbox"/>
PHSD OR OTHER WORK ORDER	<input checked="" type="checkbox"/>
UTS ONLY WORK ORDER	<input checked="" type="checkbox"/>
PERMIT REQUIRED	<input checked="" type="checkbox"/>
PERMIT TIME LAST CLOSE	<input checked="" type="checkbox"/>
OUTAGE DATE	<input checked="" type="checkbox"/>
TRAFFIC CONTROL REQUIRED	<input checked="" type="checkbox"/>
POST TRAFFIC CONTROL REQUIRED	<input checked="" type="checkbox"/>
CONVEYANCE LETTER MOOD	<input checked="" type="checkbox"/>
ENVIRONMENTAL REQUIREMENTS	<input checked="" type="checkbox"/>
DOCUMENT (Y/N) REQUIRED	<input checked="" type="checkbox"/>
COO 140 (Y/N) REQUIRED	<input checked="" type="checkbox"/>
USE ALERT APP	<input checked="" type="checkbox"/>
VOYERD ALERT AND CONFINED USA TOOLS	<input checked="" type="checkbox"/>
UTRACES1 NOTICED	<input checked="" type="checkbox"/>

JURUPA RD/ UNION PACIFIC RAILROAD GRADE SEPARATION
COO #012
ATTACHMENT A
SHEET 8 OF 13

FINAL DESIGN
APPROVED FOR CONSTRUCTION

UNDERGROUND SERVICE ALERT
Call 811 or 800-422-4133
www.csa.utah.gov
For Underground Locating
See the CAUTION

EDISON
SCALE 1" = 30'
1443549_0.01

DATE	02/27/14
DESIGNED BY	PHO RIVERA
CHECKED BY	BAREL SACRIZO
APPROVED BY	PHO RIVERA
DATE	02/27/14
DESIGNED BY	PHO RIVERA
CHECKED BY	BAREL SACRIZO
APPROVED BY	PHO RIVERA
DATE	02/27/14
DESIGNED BY	PHO RIVERA
CHECKED BY	BAREL SACRIZO
APPROVED BY	PHO RIVERA

JURUPA ROAD/
UNION PACIFIC RAILROAD
GRADE SEPARATION
CCO #012
ATTACHMENT A
SHEET 10 OF 13

GRANITE (RFI)

1. The radius of the conduit sweeps, - RADIUS SWEEPS FROM XX5527722 TO TRANSFORMER PAD ARE 12.5R. FROM TRANSFORMER PAD TO PANEL ARE 48" R.
2. Is the schedule of the conduit sch 40 or sch, 80? - EVERYTHING WILL BE SCH 40.
3. Is encasement necessary? If so, which encasement is required. - ONLY ENCASEMENT REQUIRED IS WHERE THERE WILL BE 3 CONDUITS. THIS PROJECT YOU WILL HAVE THE 1-5" CONDUIT OVERLAPPING THE 2-3" CONDUITS THAT WILL BE INSTALLED ON TO1967548. (3-CONDUITS = SEMI ENCASED)

3 CO: P
45' EX
RM
DI

Charge #7

CO 3.5" (N)
P - TO PANEL

4993 FELSPAR ST
400AMP PANEL
2777480V 3P

CP
1 5'
32"
X7722 TO P

SEMI ENCASED

100 AMP
120V
120/240V
120/240V

CI: HH-2 HH
17'-30"x24" CONCRETE
M1-08 B&B UP

CI: HH-2 HH
17'-30"x24" CONCRETE
M1-08 B&B UP

1 EX: P5527720
5'x10' PME

2 EX: X5527722
3'x5'x4' RPM

THIS PLAN APPROVED AS TO LOCATION AND TYPE OF ELECTRIC SUBSTITUTIONS

Developer: AT&T
Address: 45085
City: SACRAMENTO
State: CA

Dev. Name	Developer's Signature	Date

CHANGES IN THESE PLANS WILL REQUIRE AN ADDITIONAL 6 TO 8 WEEKS AND CUSTOMER WILL BE CHARGED IN ADVANCE FOR REQUESTED CHANGES.

PRELIMINARY
Not For Construction

NO.	DESCRIPTION	DATE	BY	REVISION
00	FOOTING			
01	CONCRETE			
02	STEEL			
03	WELDING			
04	PAINT			
05	INSULATION			
06	MECHANICAL			
07	ELECTRICAL			
08	PLUMBING			
09	MECHANICAL			
10	ELECTRICAL			
11	PLUMBING			
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14	PLUMBING			
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98	PLUMBING			
99	MECHANICAL			
100	ELECTRICAL			

JURUPA

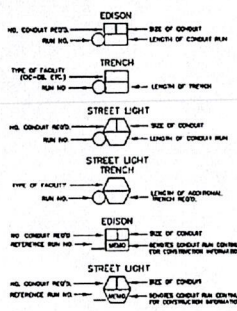
ALL RIGHTS RESERVED BY THE CONSULTANT. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE CONSULTANT.

CONSTRUCTION NOTES

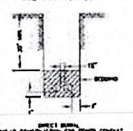
1. THE DESIGNER SHALL BE RESPONSIBLE FOR THE LOCATION, SIZE AND DEPTH OF ALL TRENCHES AND CONDUIT BANKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, SIZE AND DEPTH OF ALL TRENCHES AND CONDUIT BANKS.

2. ALL TRENCHES SHALL BE OPENED AND CLOSED IN ACCORDANCE WITH THE STANDARD PRACTICES OF THE INDUSTRY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, SIZE AND DEPTH OF ALL TRENCHES AND CONDUIT BANKS.

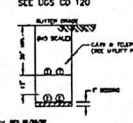
LEGEND OF CONDUIT SYMBOLS (CONVENTIONAL U. S. G.)



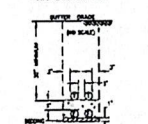
TYPICAL CONDUIT BANK SECTION



TYPICAL CONDUIT SECTION JOINT WITH CATV & TELE



ALTERNATE CONDUIT BANK SECTION (PREFERRED)



DENOTES THE FOLLOWING:

1. CONDUIT BANKING SHALL BE PERMITTED FOR THE FOLLOWING TYPES OF TRENCHES:

- EDISON
- TRENCH
- STREET LIGHT

2. CONDUIT BANKING SHALL NOT BE PERMITTED FOR THE FOLLOWING TYPES OF TRENCHES:

- JOINT WITH CATV & TELE

LEGEND CODE DEFINITIONS

1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

6. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

7. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

8. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

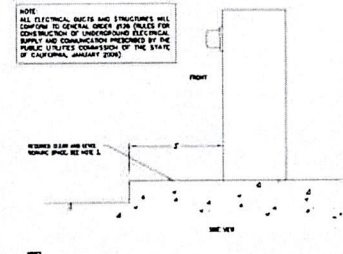
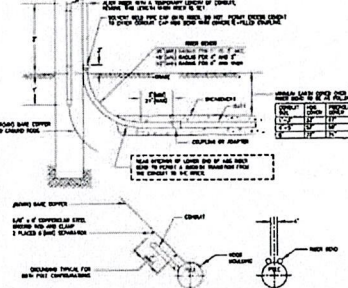
9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

PANEL CLEARANCE UNDERGROUND SERVICE CONNECTIONS 0-600 VOLTS

SEE ESR 3-16

POLE RISER BEND STANDARD LOCATION

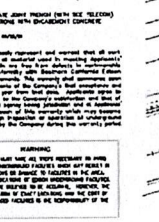


NOTES

1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

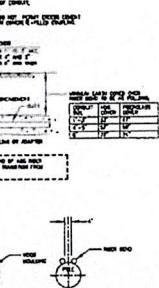
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.



LEGEND CODE DEFINITIONS

1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

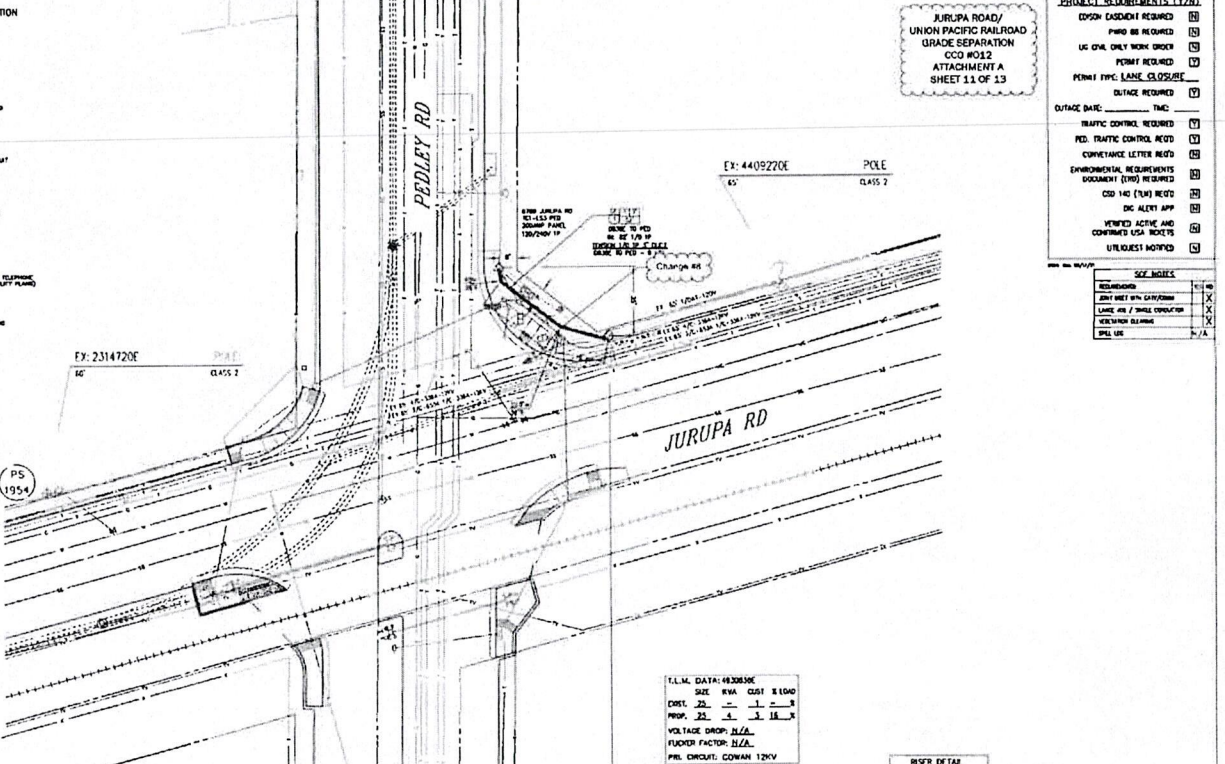
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.



LEGEND CODE DEFINITIONS

1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.



JURUPA ROAD/ UNION PACIFIC RAILROAD GRADE SEPARATION

CCO #012

ATTACHMENT A

SHEET 11 OF 13

PROJECT REQUIREMENTS (Y/N)

EXISTING FACILITY REQUIRED	<input type="checkbox"/>
FUNDS BE REQUIRED	<input type="checkbox"/>
UTILITY CHG. ONLY WORK ORDER	<input type="checkbox"/>
PERMIT REQUIRED	<input type="checkbox"/>
PERMIT TRNG. LANE CLOSURE	<input type="checkbox"/>
OUTAGE REQUIRED	<input type="checkbox"/>
OUTAGE DATE: _____ TIME: _____	
TRAFFIC CONTROL REQUIRED	<input type="checkbox"/>
TRAFFIC CONTROL METHOD	<input type="checkbox"/>
CONFORMANCE LETTER NEEDED	<input type="checkbox"/>
ENVIRONMENTAL REQUIREMENTS DOCUMENT (TRM) REQUIRED	<input type="checkbox"/>
CONTRACT DOCUMENT REQUIRED	<input type="checkbox"/>
DESIGN ALERT APP	<input type="checkbox"/>
VERIFIED ACTIVE AND CONTROLLED USA RECORDS	<input type="checkbox"/>
UTILITIES NOTIFIED	<input type="checkbox"/>

REV. SHEET

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITS		
2	ISSUED FOR PERMITS		
3	ISSUED FOR PERMITS		
4	ISSUED FOR PERMITS		
5	ISSUED FOR PERMITS		
6	ISSUED FOR PERMITS		
7	ISSUED FOR PERMITS		
8	ISSUED FOR PERMITS		
9	ISSUED FOR PERMITS		
10	ISSUED FOR PERMITS		

T.M. DATA: 4930838E

SIZE: 3/4" DIA

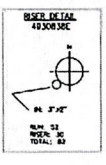
DEPTH: 1'-6"

PROP. 25'-0" X 18'-0" X 18'-0"

VOLTAGE DROP: N/A

FLUXOR FACTOR: N/A

PHL. CIRCUIT: COMMON 12KV



INSTALLED ON 10/16/06

EX: 4930838E

POLE 1

CLASS 1

1 - 1" DIA 2-1/2" X 1-1/2" RISKY UP US TO CH

1 - 1" DIA 3" X 2" X 2" EDISON

1 - 1" DIA 2-1/2" X 1-1/2" AL 3-1/2" BODY COP PLIX (RISKY TO PER)

1 - 1" DIA 2-1/2" X 1-1/2" AL 3-1/2" BODY COP PLIX

CF: 52' - ON GROUND FOR EXHAUSTION

CF: 52' - ON GROUND 1-1/2" TO 4" (RISKY TO PER)

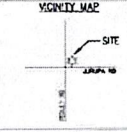
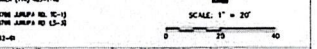
1 - 1" DIA 2-1/2" X 1-1/2" AL 3-1/2" BODY COP PLIX (RISKY TO PER)

1 - 1" DIA 2-1/2" X 1-1/2" AL 3-1/2" BODY COP PLIX (RISKY TO PER)

FINAL DESIGN

APPROVED FOR CONSTRUCTION

EDISON



REVISIONS

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITS		
2	ISSUED FOR PERMITS		
3	ISSUED FOR PERMITS		
4	ISSUED FOR PERMITS		
5	ISSUED FOR PERMITS		
6	ISSUED FOR PERMITS		
7	ISSUED FOR PERMITS		
8	ISSUED FOR PERMITS		
9	ISSUED FOR PERMITS		
10	ISSUED FOR PERMITS		

PROJECT INFORMATION

PROJECT NO: 1456635_001

DATE: 10/16/06

UNDERGROUND SERVICE ALERT

CONTACT: 1-800-851-4133

WWW.888.4133

CONSTRUCTION NOTES

Before starting any work, the contractor shall obtain a copy of the specifications, the Schedule/Program and other relevant documents to be used in the construction.

1. FOR GENERAL SPECIFICATIONS SEE UGS CD 120
2. CONDUIT
 - a. Conduits shall be placed in trenches 18" deep, unless otherwise specified.
 - b. Conduits shall be placed in trenches 18" deep, unless otherwise specified.
 - c. Conduits shall be placed in trenches 18" deep, unless otherwise specified.
 - d. Conduits shall be placed in trenches 18" deep, unless otherwise specified.

CONDUIT BANK REQUIREMENTS

1. CONDUIT BANK REQUIREMENTS
 - a. The conduit bank shall be constructed in accordance with the specifications.
 - b. The conduit bank shall be constructed in accordance with the specifications.
 - c. The conduit bank shall be constructed in accordance with the specifications.

UNDERGROUND SERVICE ALERTS

1. UNDERGROUND SERVICE ALERTS
 - a. The contractor shall contact the utility companies to locate any underground utilities.
 - b. The contractor shall contact the utility companies to locate any underground utilities.

NOTE

ALL ELECTRICAL DUCTS AND STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE STATE OF CALIFORNIA, JANUARY 2003.

SEE INJECTION

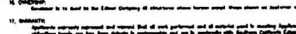
CONTACT SEE AND HOURS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA, JANUARY 2003.

CONNECTIONS TO EXISTING SEE STRUCTURES

1. CONNECTIONS TO EXISTING SEE STRUCTURES
 - a. The contractor shall connect the new conduits to the existing structures.
 - b. The contractor shall connect the new conduits to the existing structures.

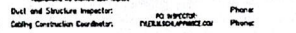
CONDUIT BANK SECTION

SEE UGS CD 120



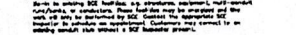
ALTERNATE CONDUIT BANK SECTION

(PREFERRED) SEE UGS CD 120



TYPICAL CONDUIT SECTION

JOINT WITH CABLE & TELE SEE UGS CD 120



CONNECTING TO EXISTING SEE STRUCTURES

1. CONNECTING TO EXISTING SEE STRUCTURES
 - a. The contractor shall connect the new conduits to the existing structures.
 - b. The contractor shall connect the new conduits to the existing structures.

WARNING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

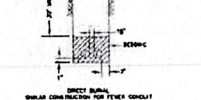
OUTSIDE-OWNED CONDUIT MATERIAL - JOB OWNER'S RESPONSIBILITY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

WHERE CONDUITS ARE PICKED UP OR INTERRUPTED, CONDUIT SHALL BE HANDLED AND FULL BORE INSTALLED FROM TERMINAL TO TERMINAL.

TYPICAL CONDUIT BANK SECTION

SEE UGS CD 120



UNDERGROUND SERVICE ALERTS

CONTACT USA Dial 811 or 800-422-4133 www.811.com

FOR UNDERGROUND LOCATING

See Working Order Before You Dig

NOTE

ALL ELECTRICAL DUCTS AND STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE STATE OF CALIFORNIA, JANUARY 2003.

SEE INJECTION

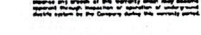
CONTACT SEE AND HOURS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA, JANUARY 2003.

CONNECTIONS TO EXISTING SEE STRUCTURES

1. CONNECTIONS TO EXISTING SEE STRUCTURES
 - a. The contractor shall connect the new conduits to the existing structures.
 - b. The contractor shall connect the new conduits to the existing structures.

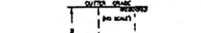
CONDUIT BANK SECTION

SEE UGS CD 120



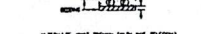
ALTERNATE CONDUIT BANK SECTION

(PREFERRED) SEE UGS CD 120



TYPICAL CONDUIT SECTION

JOINT WITH CABLE & TELE SEE UGS CD 120



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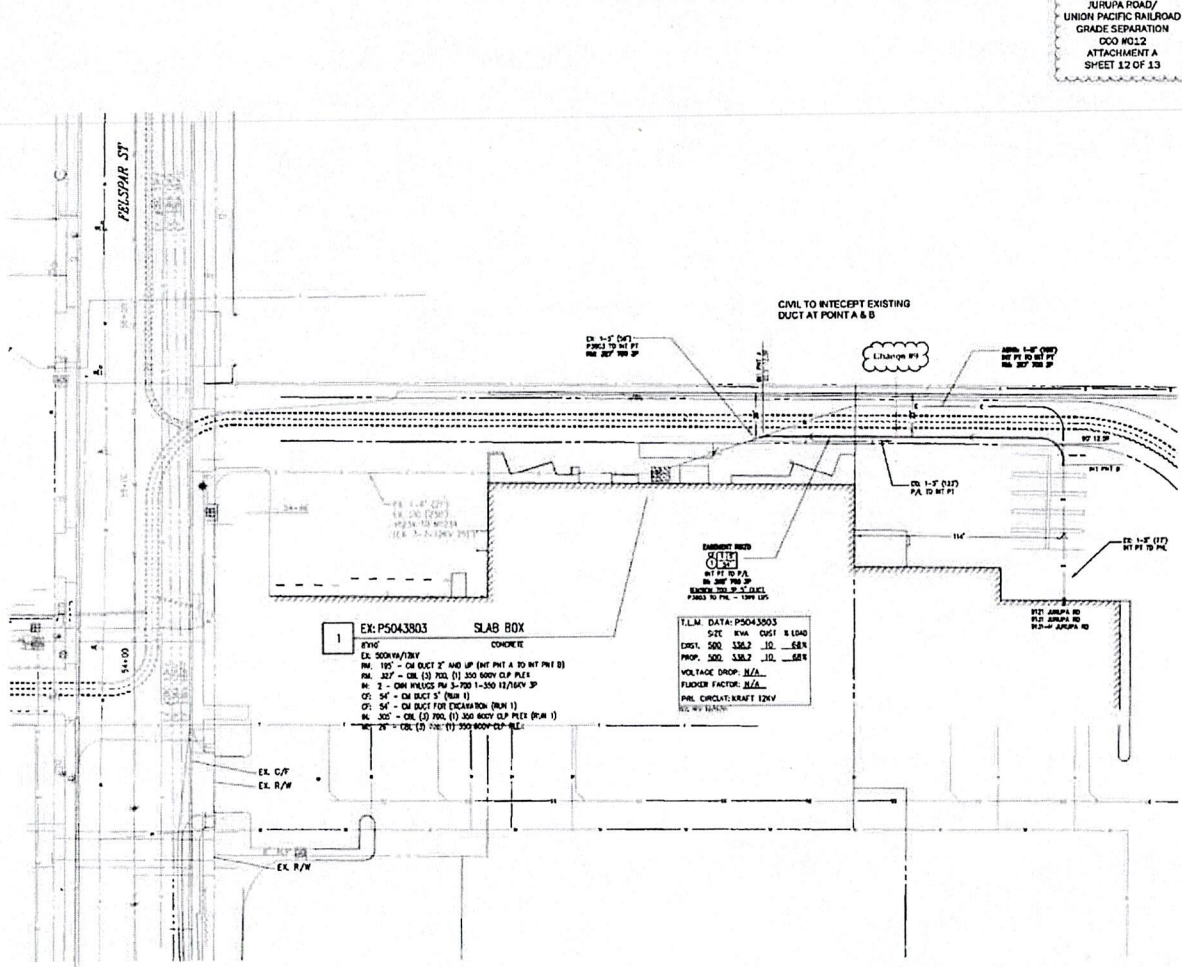
WARNING

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THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

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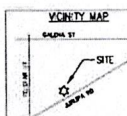
EX: P5043803
SLAB BOX
 CONCRETE
 EX: 50074/120
 PA: 105' - ON DUCT 2' AND UP (INT PNT A TO INT PNT B)
 PA: 107' - ON (3) PLS (1) 300 BODY CLP PLS
 M: 2 - ON PLS (1) 300 1-1/2 DIA SP
 C: 54' - ON DUCT 2' (PNT 1)
 M: 300' - ON (1) PLS (1) 300 BODY CLP PLS (PNT 1)
 M: 2' - ON (1) PLS (1) 300 BODY CLP PLS

T.I.M. DATA: P5043803
 SITE: RWA COST 8 LOAD
 ENCL: 500 3362 10 684
 PROP: 500 3362 10 684
 VOLTAGE DROP: 100%
 FLUXOR FACTOR: 100%
 PLS: CONDUIT: KRAFT 120V
 SEE UGS CD 120

FINAL DESIGN
 APPROVED FOR CONSTRUCTION



SCALE: 1" = 30'



DATE	BY	REVISION
01/15/2021	J. GARCIA	ISSUED FOR PERMITS
01/15/2021	J. GARCIA	ISSUED FOR CONSTRUCTION

PROJECT: 1562720_001
 SHEET: 12 OF 13
 DATE: 01/15/2021
 BY: J. GARCIA

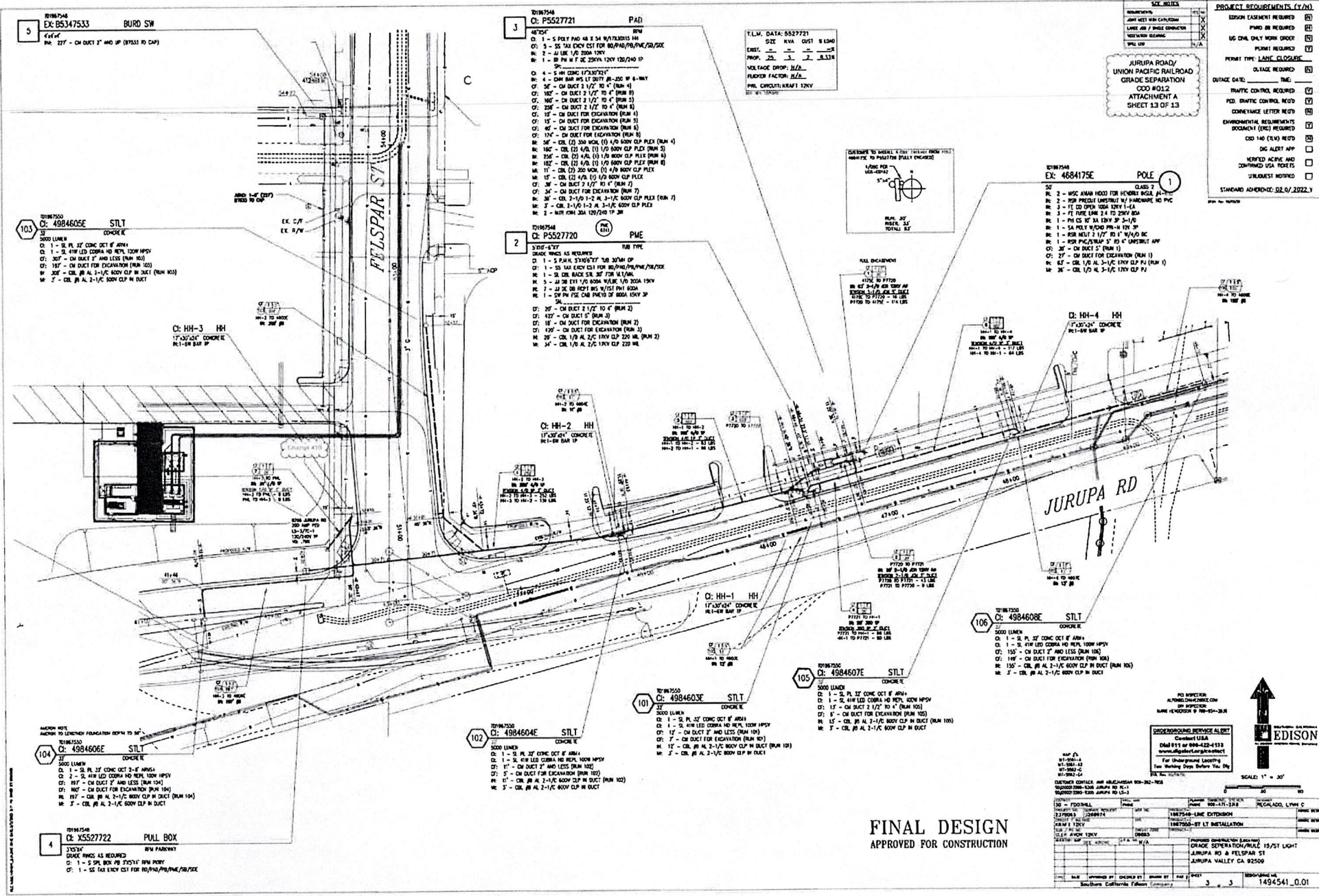
PROJECT REQUIREMENTS (1/21)

PERMITS REQUIRED	<input type="checkbox"/>
PHOTO AS REQUIRED	<input type="checkbox"/>
UC ONLY ONLY WORK	<input type="checkbox"/>
PERMITS REQUIRED	<input type="checkbox"/>
OUTAGE REQUIRED	<input type="checkbox"/>
TRAFFIC CONTROL REQUIRED	<input type="checkbox"/>
PERMITS CONTROL REQUIRED	<input type="checkbox"/>
CONVENIENCE LETTER REQUIRED	<input type="checkbox"/>
ENVIRONMENTAL REQUIREMENTS DOCUMENT (ERM) REQUIRED	<input type="checkbox"/>
CD 140 (EIA) REPORT	<input type="checkbox"/>
DC ALERT APP	<input type="checkbox"/>
VERIFIED ACTIVE AND CONFIRMED USA TICKETS	<input type="checkbox"/>
UTILITIES NOTIFIED	<input type="checkbox"/>

STANDARD ADHERENCE: 04/01/2022_Y

SEE NOTES

REVISIONS	DATE	BY
1	01/15/2021	J. GARCIA
2	01/15/2021	J. GARCIA



103
STLT
 CONCRETE
 3000 LUMEN
 D. 1 - 3L PL 32 CONC OCT IF AFRM
 D. 2 - 3L 4IN LED CORR HD REIN 1200 HPV
 D. 3 - 1" CH DUCT 2" AND LESS (RUM 100)
 D. 4 - 1" CH DUCT FOR EXCAVATION (RUM 100)
 W. 306 - CON. IN AL 2-1/2" BODY CLP IN DUCT (RUM 100)
 W. 2 - CON. IN AL 2-1/2" BODY CLP IN DUCT

104
STLT
 CONCRETE
 3000 LUMEN
 D. 1 - 3L PL 32 CONC OCT IF AFRM
 D. 2 - 3L 4IN LED CORR HD REIN 1200 HPV
 D. 3 - 1" CH DUCT 2" AND LESS (RUM 100)
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104
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 CONCRETE
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STLT
 CONCRETE
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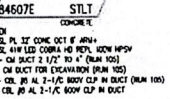
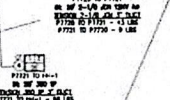
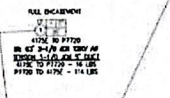
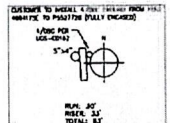
103
STLT
 CONCRETE
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 W. 2 - CON. IN AL 2-1/2" BODY CLP IN DUCT

102
STLT
 CONCRETE
 3000 LUMEN
 D. 1 - 3L PL 32 CONC OCT IF AFRM
 D. 2 - 3L 4IN LED CORR HD REIN 1200 HPV
 D. 3 - 1" CH DUCT 2" AND LESS (RUM 100)
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 W. 306 - CON. IN AL 2-1/2" BODY CLP IN DUCT (RUM 100)
 W. 2 - CON. IN AL 2-1/2" BODY CLP IN DUCT

105
STLT
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 D. 1 - 3L PL 32 CONC OCT IF AFRM
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 W. 2 - CON. IN AL 2-1/2" BODY CLP IN DUCT

T.L.W. DATA: 5527721
 SIZE: RWA, CHET 8 L400
 EXIST. - - - - -
 PROP. 25 1 2 3 4 5 6 7 8 9 10
 VOLTAJE DROP: 3/16
 FLUIDITY FACTOR: 1/16
 100% CEMENT/MASK 100%
 100% FIBER



PROJ. REQ. (Y/N)	
EDISON EASMENT REQUIRED	<input checked="" type="checkbox"/>
PAVED BR REQUIRED	<input checked="" type="checkbox"/>
UG ONLY WORK ORDER	<input checked="" type="checkbox"/>
PLUMB REQUIRED	<input checked="" type="checkbox"/>
PERMIT TYPE: LANE CLOSURE	<input checked="" type="checkbox"/>
OUTAGE REQUIRED	<input checked="" type="checkbox"/>
TRAFFIC CONTROL REQUIRED	<input checked="" type="checkbox"/>
CONTRACT LETTER NOTES	<input checked="" type="checkbox"/>
ENVIRONMENTAL REQUIREMENTS DOCUMENT (EPC) REQUIRED	<input checked="" type="checkbox"/>
CGI ALERT APP	<input type="checkbox"/>
VERIFIED ACTIVE AND CONFIRMED USA POLE TS	<input type="checkbox"/>
SUBMITTING NOTING	<input type="checkbox"/>

JURUPA ROAD / UNION PACIFIC RAILROAD GRADE SEPARATION
 CDD #012
 ATTACHMENT A
 SHEET 13 OF 13

NO.	DESCRIPTION	CLASS
1	WSC AMAN HOOK FOR HEAVY BOLT	CLASS 1
2	FOR PRECUT LUMBER W/ HANDBARE NO PVC	CLASS 2
3	FOR OPEN 100% LEG	CLASS 3
4	FOR LEG 3/4 TO 2 1/2" DIA	CLASS 4
5	FOR LEG 2 1/2 TO 3 1/2" DIA	CLASS 5
6	FOR LEG 3 1/2 TO 4 1/2" DIA	CLASS 6
7	FOR LEG 4 1/2 TO 5 1/2" DIA	CLASS 7
8	FOR LEG 5 1/2 TO 6 1/2" DIA	CLASS 8
9	FOR LEG 6 1/2 TO 7 1/2" DIA	CLASS 9
10	FOR LEG 7 1/2 TO 8 1/2" DIA	CLASS 10

106
STLT
 CONCRETE
 3000 LUMEN
 D. 1 - 3L PL 32 CONC OCT IF AFRM
 D. 2 - 3L 4IN LED CORR HD REIN 1200 HPV
 D. 3 - 1" CH DUCT 2" AND LESS (RUM 100)
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8	FOR LEG 5 1/2 TO 6 1/2" DIA	CLASS 8
9	FOR LEG 6 1/2 TO 7 1/2" DIA	CLASS 9
10	FOR LEG 7 1/2 TO 8 1/2" DIA	CLASS 10

SCALE: 1" = 30'

1494541_0.01

FINAL DESIGN
 APPROVED FOR CONSTRUCTION

Jurupa Road Grade Separation Project
 Contract CCO History

Contract No. 21-05-013
 Work Order No. C8-0060, SB132L 6054(086)
 Contract Amount \$64,790,010.00

Single Maximum CCO \$210,000.00
 Maximum CCO's \$6,479,001.00

CCO Category Legend	
AFA	Anticipated Force Account
CFC	Changed Field Conditon
CME	Contract Management Error
DO	Design Omission
OAM	Outside Agency Mandate
RWO	Right-of-Way Obligation
SE	Survey Error
UB	Upgrade/Betterment
UI	Utility Interference

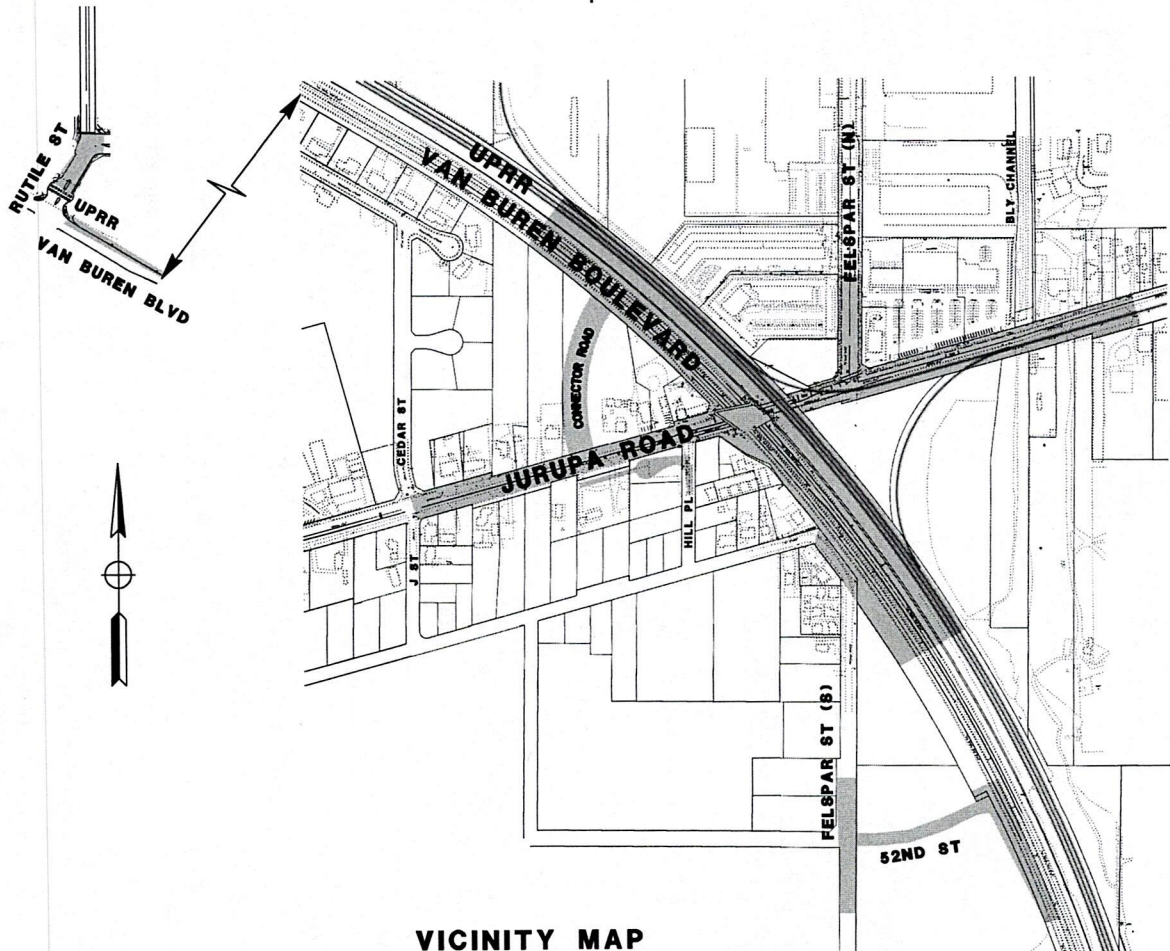
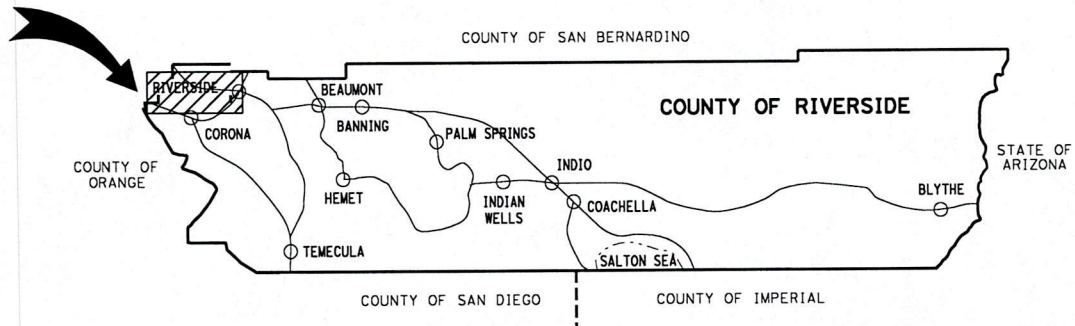
CCO No.	Amount This CCO	Authority	Cumulative CCO's	% Original Authorized	Cumulative CCO %	CCO Category	Classification
1	\$39,455.90	Director	\$39,455.90	0.06%	0.06%	DO	Avoidable
2	\$0.00	Director	\$39,455.90	0.00%	0.06%	CFC	Unavoidable
4	\$100,000.00	Director	\$139,455.90	0.15%	0.22%	AFA	Unavoidable
3	\$25,230.90	Director	\$164,686.80	0.04%	0.25%	UI	Unavoidable
6	\$36,000.00	Director	\$200,686.80	0.06%	0.31%	CFC	Unavoidable
5	\$706,749.60	Board	\$907,436.40	1.09%	1.40%	CFC	Unavoidable
8	\$638,448.50	Board	\$1,545,884.90	0.99%	2.39%	CFC	Unavoidable
9	\$1,908,000.00	Board	\$3,453,884.90	2.94%	5.33%	CFC	Unavoidable
4S1	\$210,000.00	Director	\$3,663,884.90	0.32%	5.66%	CFC	Unavoidable
13	\$3,000,000.00	Board	\$6,663,884.90	4.63%	10.29%	CFC	Unavoidable
12	\$205,000.00	Board	\$6,868,884.90	0.32%	10.60%	CFC	Unavoidable
\$6,868,884.90				10.60%			

New Authorized Contract Total \$71,658,894.90
 Total CCO Dollars To Date \$6,868,884.90
 Total % Increased by CCO's 10.60%

C O U N T Y O F R I V E R S I D E
T R A N S P O R T A T I O N D E P A R T M E N T

**JURUPA ROAD / UNION PACIFIC RAILROAD
GRADE SEPARATION PROJECT
IN THE CITY OF JURUPA VALLEY
PROJECT No. C8-0060
STATE PROJECT No. - SB132L 6054 (086)**

PROJECT
SITE



VICINITY MAP
NO SCALE