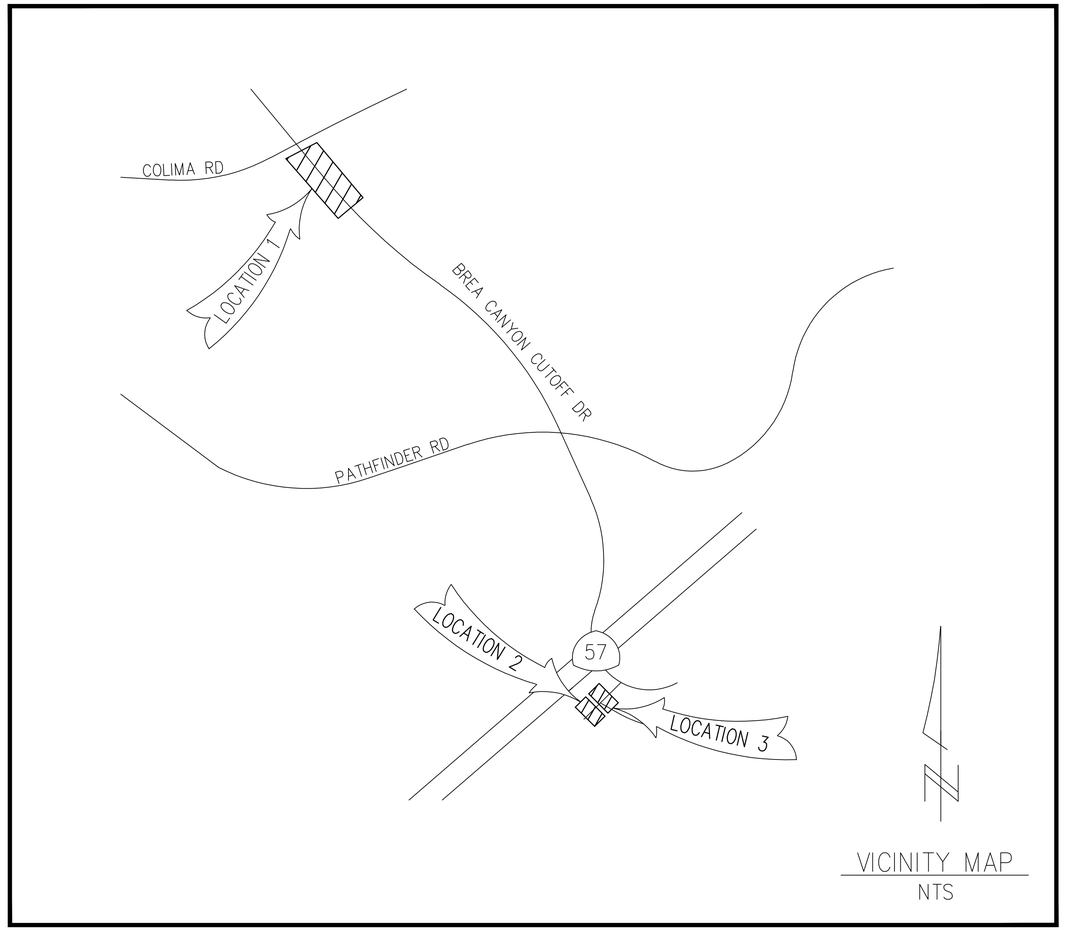


VICINITY MAP
NTS

CONSTRUCTION NOTES:

Unless otherwise specified on the working drawing which forms a part of the specification, the Contractor/Developer shall furnish the following items at no cost to the Edison Company.

Southern California Edison Company has attempted to correctly show all existing utilities and substructures in the vicinity of the work, but does not guarantee there are no other substructures in the area. Failure of SCE to show all substructures in their correct location will not be a basis for a claim for extra work, and the contractor shall be responsible for all damages to substructures whether shown or not.

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.

2. CONDUIT:
   a. Minimum cover in street or parkway is 30" below gutter grade, unless noted otherwise.
   b. Minimum cover on private property is 30" below finished grade, unless noted otherwise.
   c. Contractor is to furnish and install approved conduit to Edison specifications per UGS CD 100.1, 110 AND 120.
   d. For the type of conduit for this job, See UGS CD 110.1.
   e. Install all risers per UGS CD 160, 161, 162 and 170.
   f. Cap all mainline conduits per UGS CD 148 and service conduits per UGS CD 150.
   g. Install blank conduit plugs in all conduits terminating into Vaults, Manhole's, PMH's, SOE's & all cap locations, per UGS CD 180.1 & UGS CD 180.2
   h. Install pull rope in all conduit runs. Pull rope to be 1/4" polypropylene or polyethylene rope, braided or twisted. For specifications, approved makes, and suppliers, see UGS GI 040.
   i. All conduit must be mandreled with the approved mandrel UGS CD 197.

3. CONDUIT RADIUS REQUIREMENTS:
   a: The minimum radius for bends are:
      36" for conduits 3" in diameter or smaller
      48" for conduits 4" and 5" in diameter
      60" for 6" diameter conduit
   b: The minimum radius for all sweeps of all mainline conduits is 12'-6" (unless noted otherwise).

4. EXCAVATION AND BACKFILL:
   a. Work area shall be cleared and rough graded to within four inches of final grade prior to installation of Edison conduit or structures.
   b. All excavations shall be in accordance with the California State Construction Safety Orders (when applicable), Edison specifications, and all governing local ordinances.
   c. Each trench to be a uniform depth below final grade prior to installation of Edison conduit or structures.
   d. Backfill shall be provided by the Contractor for all excavations and shall include crushed rock, concrete, and/or imported backfill, when required.
   e. Backfill with a MINIMUM of one sack per yard sand cement slurry around and over vaults and manholes per UGS GI 030, section 6.4 and around PMH's within one foot of finished grade, per UGS SS 590.1.
   f. Backfill, per Edison specifications, shall immediately follow conduit or substructure installation. At no time shall conduit be left exposed over 24 hours.
   g. No rocks are allowed within 12 inches of direct-buried cables or any conduit without concrete encasement. Native backfill capable of passing through a one-half inch mesh screen shall be considered to be "rock free". If existing backfill does not pass through a 1/2" screen, place imported sand 3" below and 12" above Edison cables. After this point, no rocks larger than 12" diameter are permitted.
   h. All backfill shall be compacted to meet or exceed local ordinances or other requirements. It shall be placed in a manner that will not damage the conduit or substructure or allow future subsidence of the trench or structures.

5. PAVING:
   Repaving, where required, shall be placed in such a manner that interference with traffic, including pedestrian traffic, will be kept to a minimum. The Contractor shall establish a program of repaving acceptable to the Municipality, County, or other authority having jurisdiction and which is acceptable to Edison.

6. STRUCTURES:
   a. All substructures shall be constructed or installed to Edison specifications.
   b. Install protection barriers per UGS MS 830 when required in areas exposed to traffic, per Edison Inspector.
   c. All conduit lines and concrete floored substructures shall be water tight.
   d. All grounding materials shall be furnished and installed by the Contractor.

7. RETAINING WALLS:
   When required, retaining walls shall be provided by the Developer. Walls are required wherever grade rises more than 18 inches above the structure or 24" above the pad surface at a distance of 5 feet from the same, or in areas subject to erosion. Design and installation must comply with local building ordinances. Refer to Edison Inspector for typical space requirements.

8. PERMITS:
   All permits necessary for excavation shall be provided by the Contractor/Developer.

9. ACCESS:
   Heavy truck access shall be maintained to equipment locations. Structures must be clear of all appurtenances that would obstruct the loading or unloading of equipment.

10. SERVICES:
    a. Meters and services shall comply with Edison Electrical Services Requirements.
    b. Wiring must be in accordance with applicable local ordinances and approved by local Inspection Authorities.

11. LOCATION:
    a. The location of excavations and structures for Edison shall be as shown on the working drawing. No deviation from the planned locations will be permitted unless approved by the Edison Inspector. See UGS GI 001, section 2.2.
    b. Actual location of obstructions, storm drains, and/or other foreign utilities to be the responsibility of the Contractor. See UGS GI 001, section 2.3.

12. Contractor is to verify location and widths of all sidewalks and driveways prior to street light installation. See UGS CD 175.1, UGS CD 175.2 and UGS CD 175.3.

13. SURVEY:
    Surveying of street improvements, property corners, lot lines, finished grade, etc., necessary for the installation of underground facilities must be completed and markers or stakes placed prior to the start of the installation. In addition, Developer shall maintain the markers during the installation and inspection by Edison. Grade and property line stakes must show any offset measurements.

14. COORDINATION AND SUPERVISION:
    The Developer shall provide supervision over and coordination among the various contractors working within the development in order to prevent damage to Edison facilities. He is responsible for the cost of repairs, replacement, relocation, or other corrections to Edison facilities made necessary by his failure to provide supervision or to otherwise comply with these specifications.

15. TELEPHONE AND OTHER UTILITY REQUIREMENTS:
    The drawing prepared for this job may also cover the facilities to be installed for the telephone company and/or other utility. Any questions concerning details of their installation should be referred to the company concerned.

16. OWNERSHIP:
    Developer is to deed to the Edison Company all structures shown hereon except those shown as customer owned.

17. WARRANTY:
    Applicants expressly represent and warrant that all work performed and all material used in meeting Applicants' obligations herein are free from defects in workmanship and are in conformity with Southern California Edison Company's requirements. This warranty shall commence upon receipt by Applicants of Company's final acceptance and shall expire one year from that date. Applicants agree to promptly correct to the Company's satisfaction and that of any governmental agency having jurisdiction and at Applicant's expense any breach of this warranty which may become apparent through inspection or operation of underground electric system by Company during this warranty period.

18. INSPECTION:
    Inspection is required during the construction period. A 48 hour advance notice of intent to start construction is required from the contractor to the Southern California Edison Company. Standards of Edison construction requirements are available upon request.

Duct and Structure Inspector: Phone:

Cabling Construction Coordinator: Phone:

DOS: Rev. 07/17/07

N

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

SCALE: 1 in = NTS ft

FINAL DESIGN
APPROVED FOR CONSTRUCTION

RELATED WORK ORDERS:

TD853858 – DET POLE 2209531E	DESIGN#:	595672
TD853851 – DET POLES (2)	DESIGN#:	595666
TD786529 – BRAKEMAN 12KV WCR-UG	DESIGN#:	550987

INVENTORY MAP NO.'S
098-4332-1
100-4332-1
106-4326-1

THOMAS GUIDE NO.'S
679-E5
709-G1

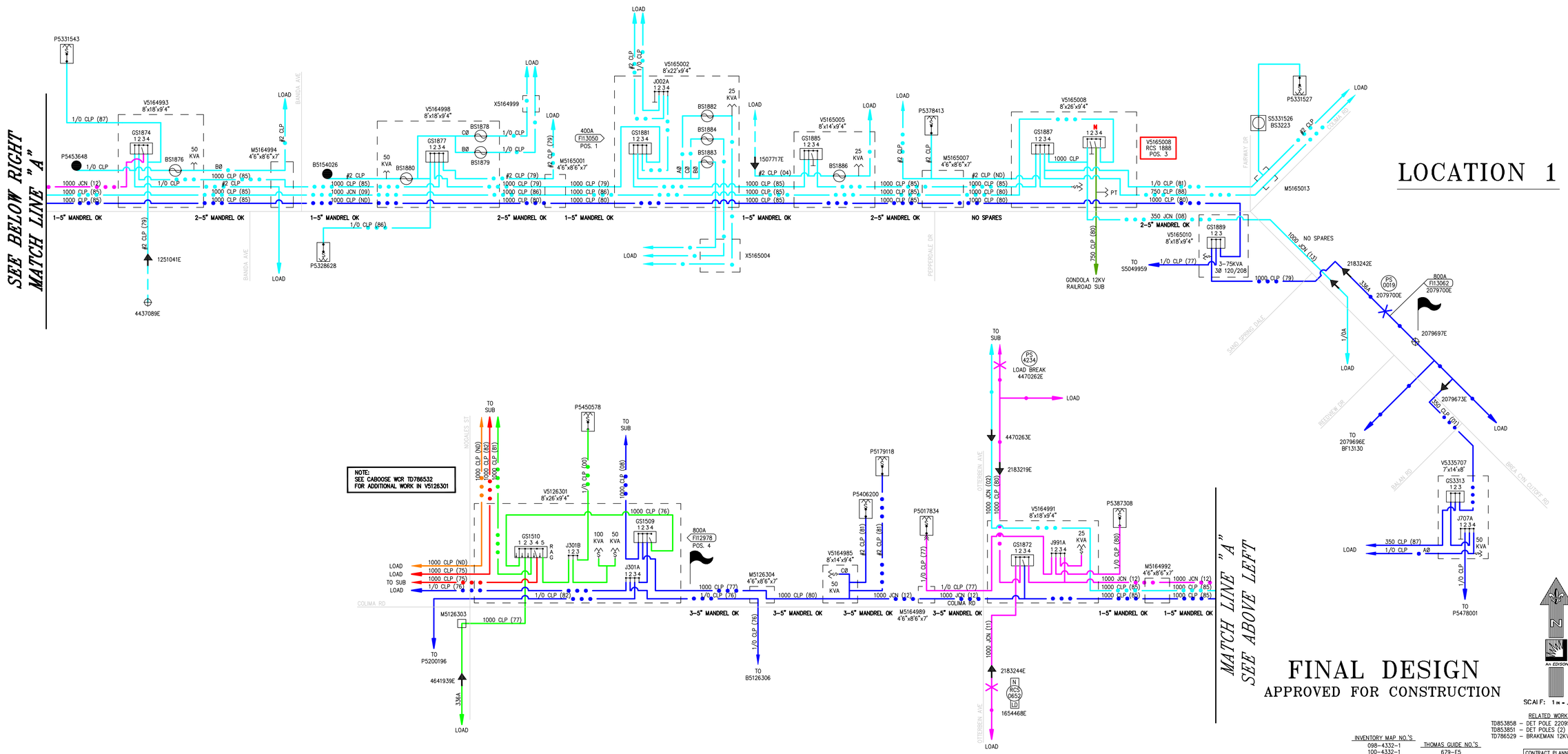
CONTRACT PLANNER: TIM REDDING/ASP
PHONE: 951-505-3976

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

DISTRICT 26-COVINA	PROJ. MGR. STEPHEN BACH PHONE 714-796-9862		PLANNER EVERARDO ANGULO PHONE 909-838-0923		SR NO. 1722007
FOREMAN	TRUCK NO.	P/E	INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE ABOVE	GRID NO. / DESIGN NO. 561474
CSD 140 Y ___ N ___	BY-PASS CODE	EXISTING ___ CHANGE TO ___	TLM CHECKED ___ %LOAD	J.P.A. NO. E6026-406360542	ASSOCIATED DESIGN NO. SEE ABOVE
PRODUCT/SAP NO. TD803450-OH			PRODUCT/SAP NO. SEE ABOVE		PRODUCT/SAP NO.
					PROPOSED CONSTRUCTION (LOCATION) WCR – BRAKEMAN 12KV o/o RAILROAD SUB MULTIPLE LOCATIONS ROWLAND HEIGHTS
B	05/20/14		ASP/PB		
TYPE / APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #	SHEET 1 OF 2 / JOB NO. 0561474

Southern California Edison Company

EXISTING OVERALL SINGLE LINE
BRAKEMAN 12KV o/o RAILROAD SUB



FINAL DESIGN
APPROVED FOR CONSTRUCTION

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

SCALE: 1 IN = NTS

RELATED WORK ORDERS:
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TD853851 – DET POLES (2) DESIGN#: 595666
TD786529 – BRAKEMAN 12KV WCR–UG DESIGN#: 550987

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TYPE	APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #

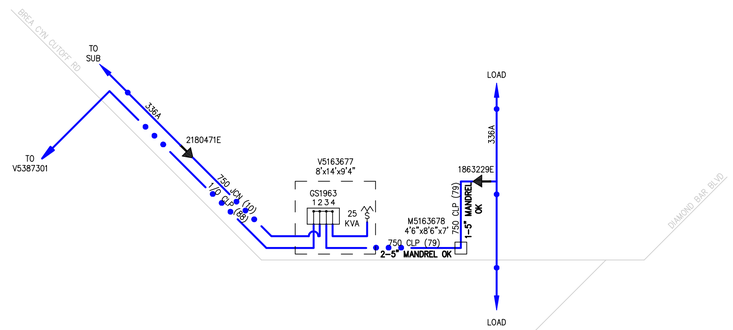
PROPOSED CONSTRUCTION (LOCATION)
WCR – BRAKEMAN 12KV o/o RAILROAD SUB
MULTIPLE LOCATIONS
ROWLAND HEIGHTS

Southern California Edison Company

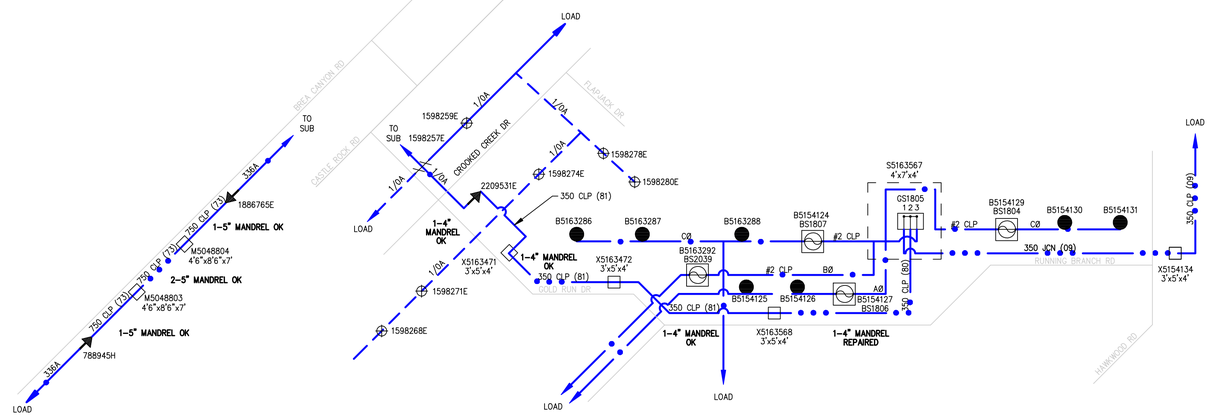
SHEET 1A OF 2

JOB NO. 0561474

EXISTING OVERALL SINGLE LINE
BRAKEMAN 12KV o/o RAILROAD SUB



LOCATIONS 2&3



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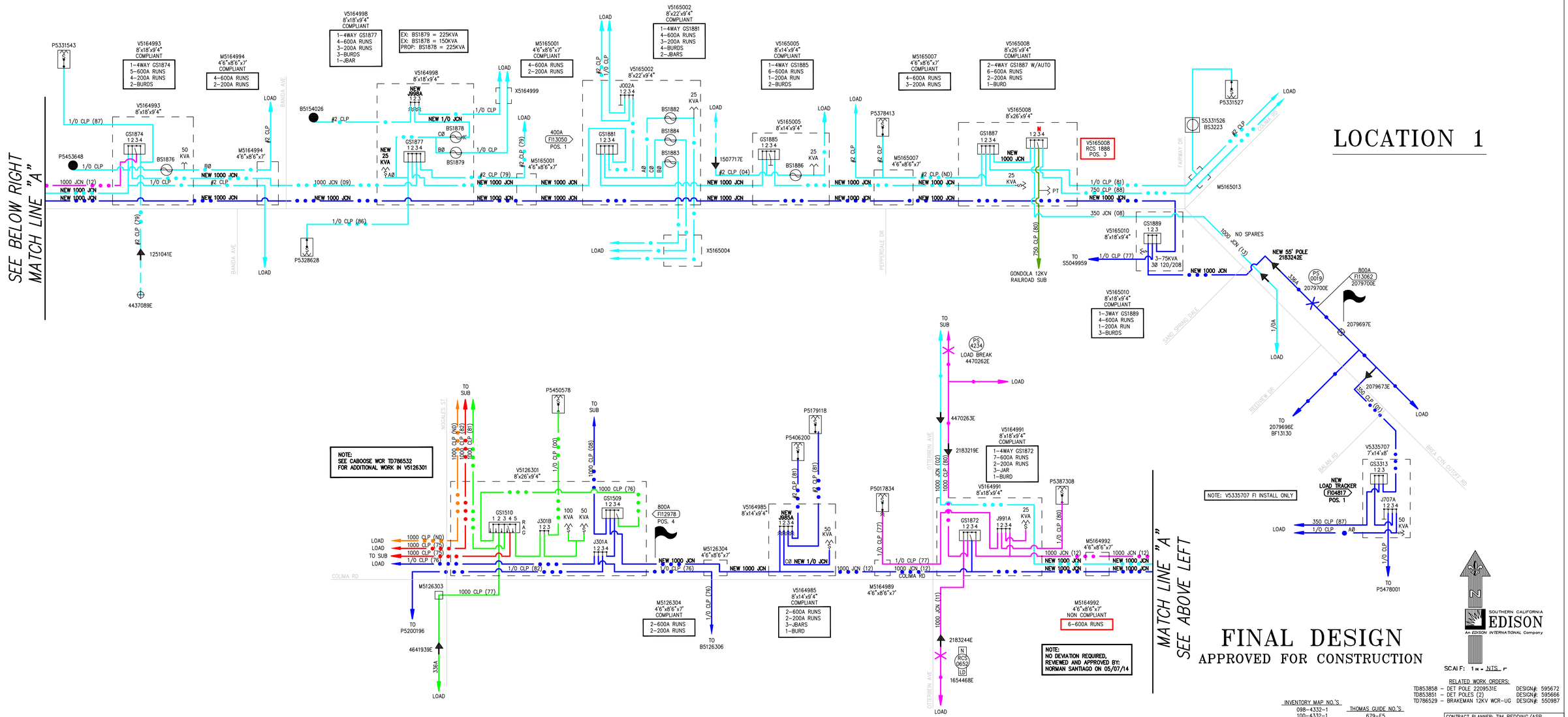
B	05/20/14		ASP/PB		SHEET 1B OF 2
TYPE / APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #	JOB NO. 0561474
Southern California Edison Company					

PROPOSED OVERALL SINGLE LINE
BRAKEMAN 12KV o/o RAILROAD SUB



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PROPOSED CONSTRUCTION (LOCATION)
WCR – BRAKEMAN 12KV o/o RAILROAD SUB
MULTIPLE LOCATIONS
ROWLAND HEIGHTS

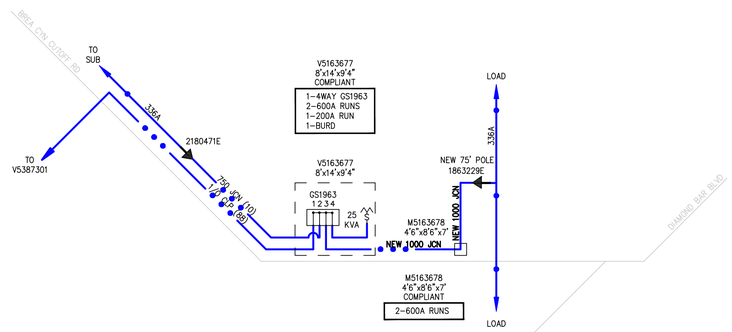
Southern California Edison Company

SHEET 1C OF 2

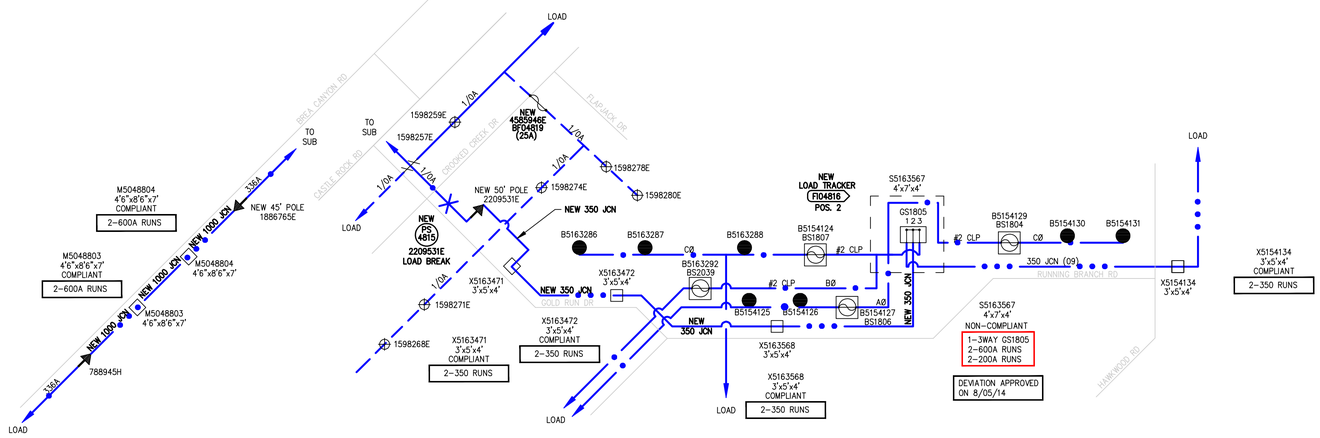
JOB NO. 0561474

PROPOSED OVERALL SINGLE LINE

BRAKEMAN 12KV o/o RAILROAD SUB



LOCATIONS 2&3



FINAL DESIGN

APPROVED FOR CONSTRUCTION

SCALE: 1 IN = NTS

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

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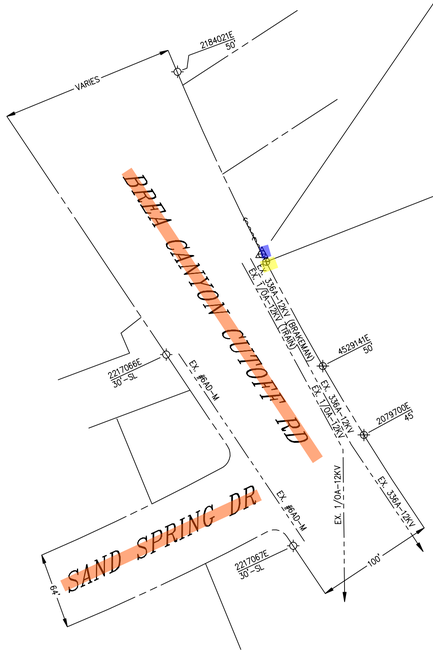
Southern California Edison Company

PROPOSED CONSTRUCTION (LOCATION)
WCR – BRAKEMAN 12KV o/o RAILROAD SUB
MULTIPLE LOCATIONS
ROWLAND HEIGHTS

SHEET 1D OF 2

JOB NO. 0561474

LOCATION 1



CREW NOTE:
REPLACE POLE DUE TO CLEARANCE ISSUE. INSTALL SURGE ARRESTERS ON TRAIN 12KV. SEE RELATED WORK ORDER TD786529 STA. 15 FOR ADDITIONAL MATERIAL.

RM: 2183242E POLE (1)

50' POLE (2013)
RM: 3-12KV SURGE ARRESTER
1-10' TRPL XARM VB W/DA BRKT
4-12KV DE (336A)
2-3/8" DOWN GUY
BRAKEMAN 12KV

1-10' DBLE XARM FB
4-12KV DE (1/0A)
1-9/32" DOWN GUY
TRAIN 12KV

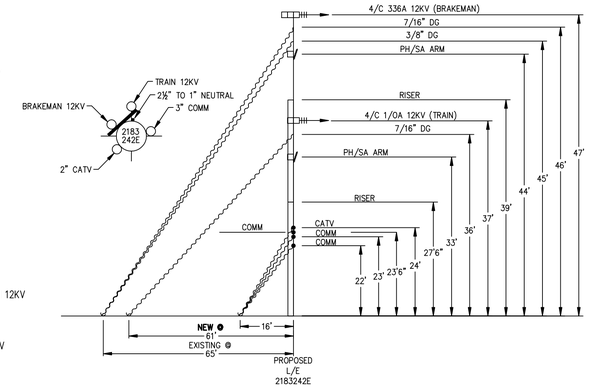
TR: 4/C 336A 12KV (BRAKEMAN)
4/C 1/0A 12KV (TRAIN)
1-5" RISER (TRAIN 12KV ONLY)

SET IN SAME HOLE
IN: 2183242E POLE (2)

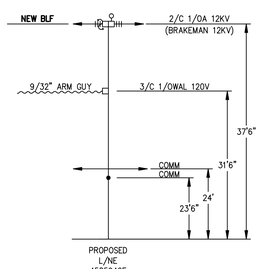
55' POLE CLASS H1

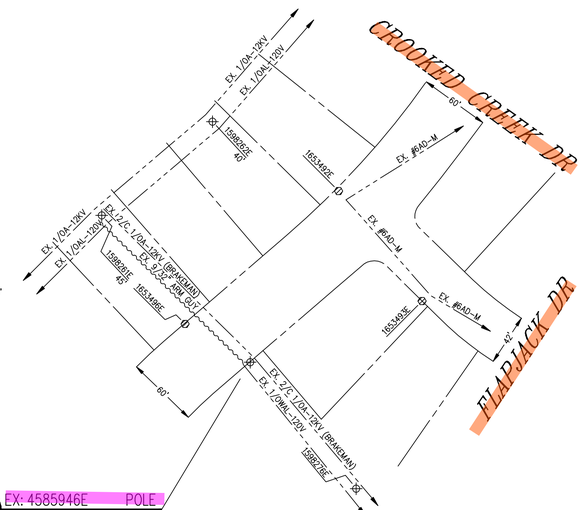
IN: 6-12KV SURGE ARRESTER (BRAKEMAN & TRAIN)
1-10' TRPL XARM VB W/DA BRKT
4-12KV DE (336A)
1-7/16" DOWN GUY
1-3/8" DOWN GUY
BRAKEMAN 12KV

1-10' DBLE XARM FB
4-12KV DE (1/0A)
1-7/16" DOWN GUY
1-1"x10' TRPL EYE ANCHOR ROD & PLATE
TRAIN 12KV



LOCATION 2

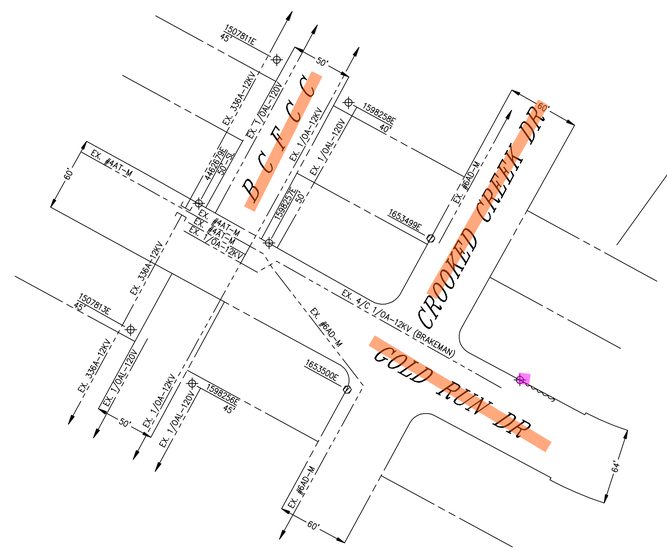




(3) EX: 4585946E POLE

45' POLE CLASS 3 (2005)
RM: 1-10' SNGL XARM FB
2-12KV P&I
IN: 2-12KV FUSE HOLDER (BLF04819)
2-SMU 25E FUSE
1-10' DBLE XARM FB
4-12KV DE (1/0A)
2-12KV P&I

LOCATION 3

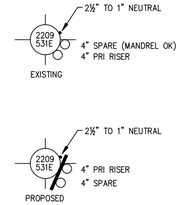


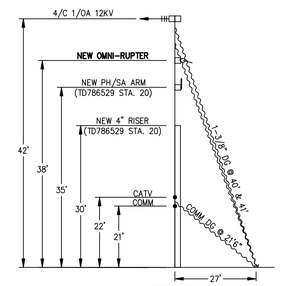
CREW NOTE:
SEE RELATED WORK ORDER TD853858 STA. 1/2 FOR POLE REPLACEMENT & TD786529 STA. 20 FOR CABLE/RISER MATERIAL.

EX: 2209531E POLE (4)

50' POLE CLASS 2

IN: 1-12KV OMNI-RUPTER FOR UG DIP APPLICATION (PS4815)





LEGEND
EXISTING
INSTALL
REMOVE

FINAL DESIGN
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SCALE: 1 in = NTS

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THOMAS GUIDE NO.'S: 679-E5, 709-G1

CONTRACT PLANNER: TIM REDDING/ASP
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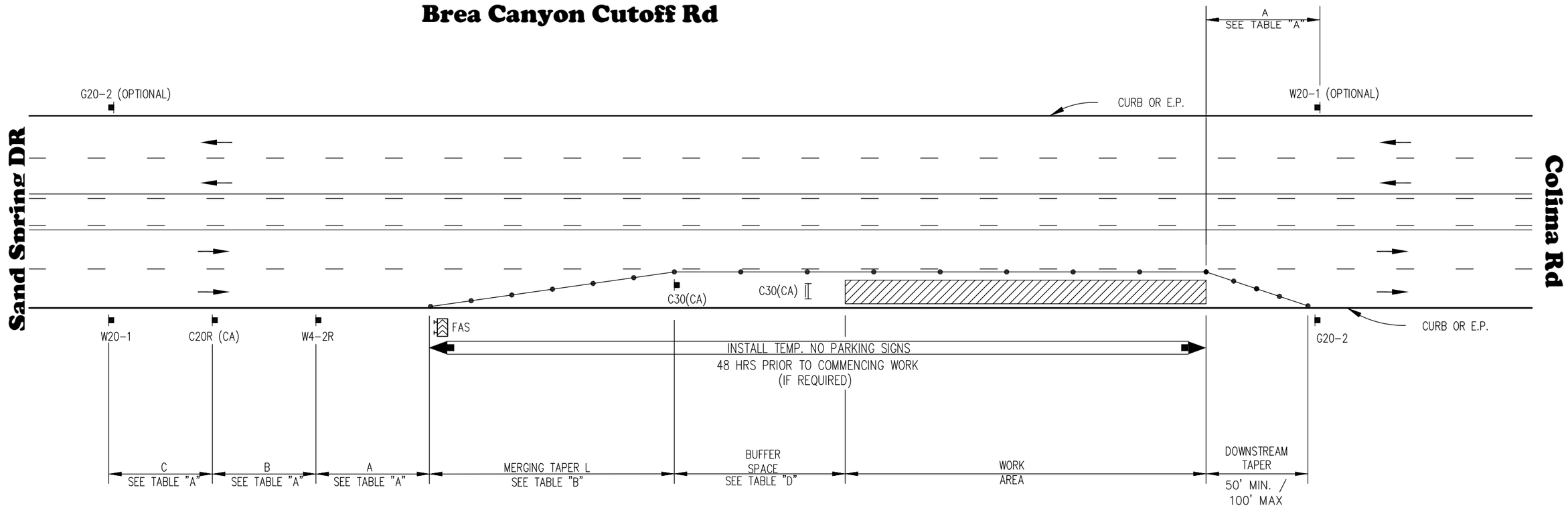
PROPOSED CONSTRUCTION (LOCATION)
WCR – BRAKEMAN 12KV o/o RAILROAD SUB
MULTIPLE LOCATIONS
ROWLAND HEIGHTS

SHEET 2 OF 2 — JOB NO. 0561474

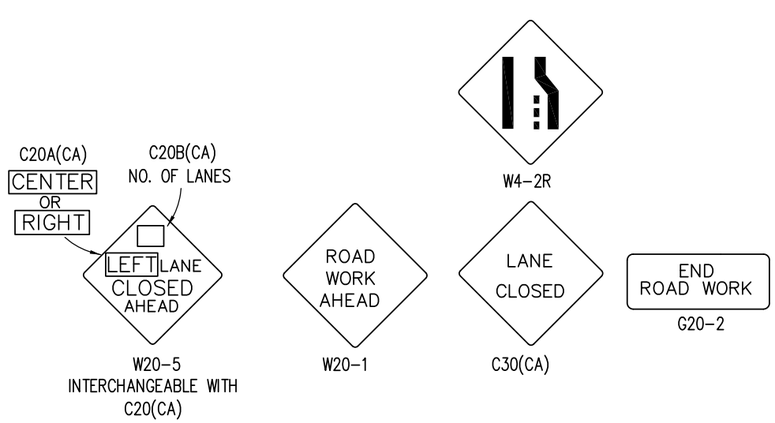
Southern California Edison Company

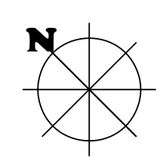
Brea Canyon Cutoff Rd



LEGEND

- TYPE III BARRICADE W/SIGN
- TYPE III BARRICADE W/O SIGN
- TYPE II BARRICADE W/SIGN
- TYPE II BARRICADE W/O SIGN
- CHANNELIZING DEVICE – **SEE TABLE "F" FOR SPACING**
- TRAFFIC CONE WITH CLIP ON SIGN
- SIGN
- (S) SIGNALIZED INTERSECTION
- ARROW PANEL (FLASHING ARROW) (WHERE REQUIRED)
- HIGH LEVEL WARNING DEVICE (FLAGTREE) (OPTIONAL)
- FLAGGER
- TANS — TOW AWAY NO STOPPING ___ TO ___ (SHOW HOURS)
- TANSAT — TOW AWAY NO STOPPING ANY TIME
- WORK ZONE (ACTIVITY AREA) LIMITS
- DIRECTION OF TRAFFIC (NOT PAVEMENT MARKING)
- (A) ROADWAY DESIGNATION (A THROUGH D)





INDICATE NORTH WITH A "N"
AND AN ARROW POINT

DATES OF TEMPORARY NO PARKING ZONE

TD803450 Location #1

WORKSITE TRAFFIC CONTROL PLAN
SINGLE LANE CLOSURE
(RIGHT LANE)

DATE		SCALE NONE
		DRAWING NO. 9

REV. 6/13/2013 CJUTCM-DWG09.DWG