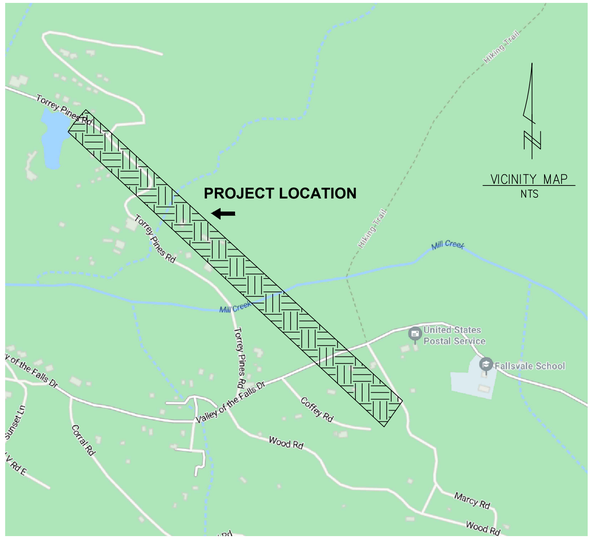



| ** HFA PROJECT ** TIER LEVEL 3 | |
|---|---|
| TOTAL PLANNED COVERED CONDUCTOR CIRCUIT MILES: | .49 DOT |

D145: Rev. 02/12/21



HELICOPTER SET REQUIRED ON THIS WORK ORDER

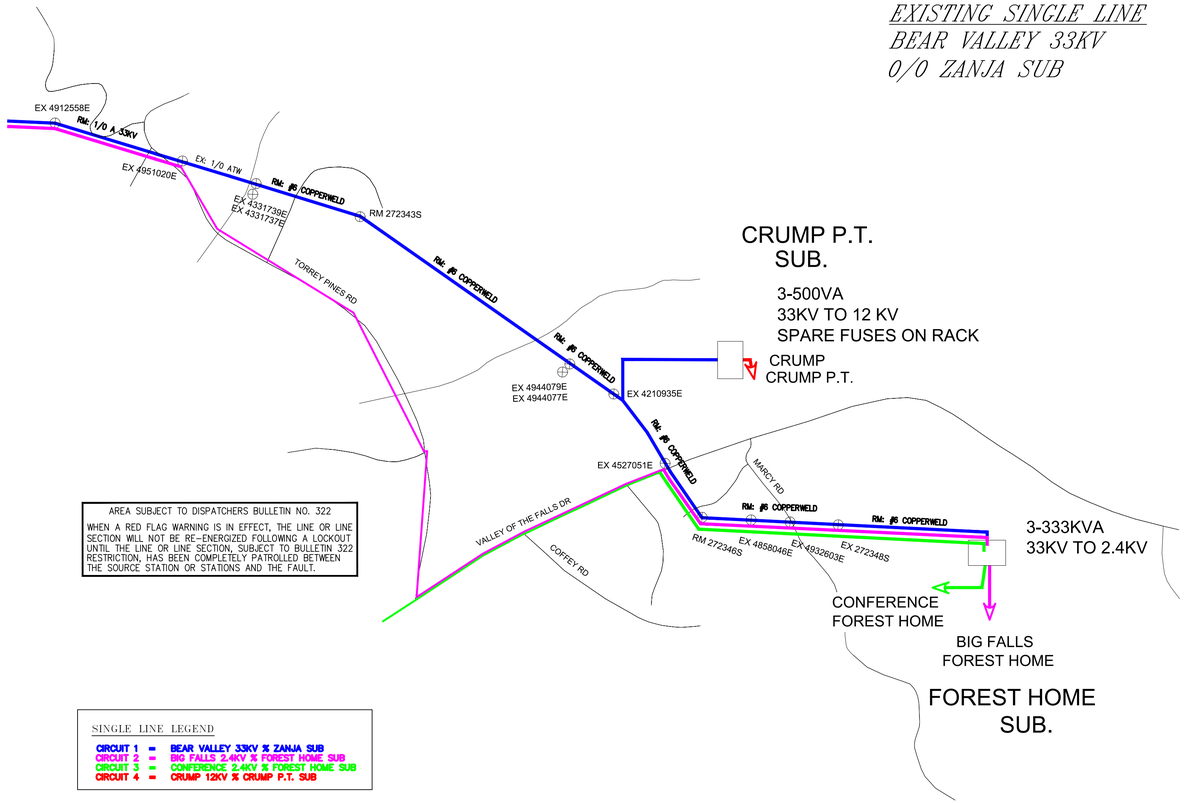
D158: Rev. 02/08/23

# TD2198084
# Bear Valley 33kv

| PROJECT REQUIREMENTS (Y/N) | |
|---|---|
| EDISON EASEMENT REQUIRED | N |
| PWRD 88 REQUIRED | N |
| UG CIVIL ONLY WORK ORDER | N |
| PERMIT REQUIRED | Y |
| PERMIT TYPE: ENCR/EXCA | |
| OUTAGE REQUIRED | Y |
| OUTAGE DATE: _____ TIME: ____ | |
| TRAFFIC CONTROL REQUIRED | Y |
| PED. TRAFFIC CONTROL REQ'D | N |
| CONVEYANCE LETTER REQ'D | N |
| ENVIRONMENTAL REQUIREMENTS DOCUMENT (ERD) REQUIRED | Y |
| CSD 140 (TLM) REQ'D | N |
| CIRCUIT MAP CHANGE REQ'D (TD 203) | Y |
| DIG ALERT APP | Y |
| VERIFIED ACTIVE AND CONFIRMED USA TICKETS | ☐ |
| UTILIQUEST NOTIFIED | ☐ |
| STANDARD ADHERENCE: 3 Q/2024 Y | |

D124: Rev. 03/21/23

## *EXISTING SINGLE LINE*
## *BEAR VALLEY 33KV*
## *O/O ZANJA SUB*



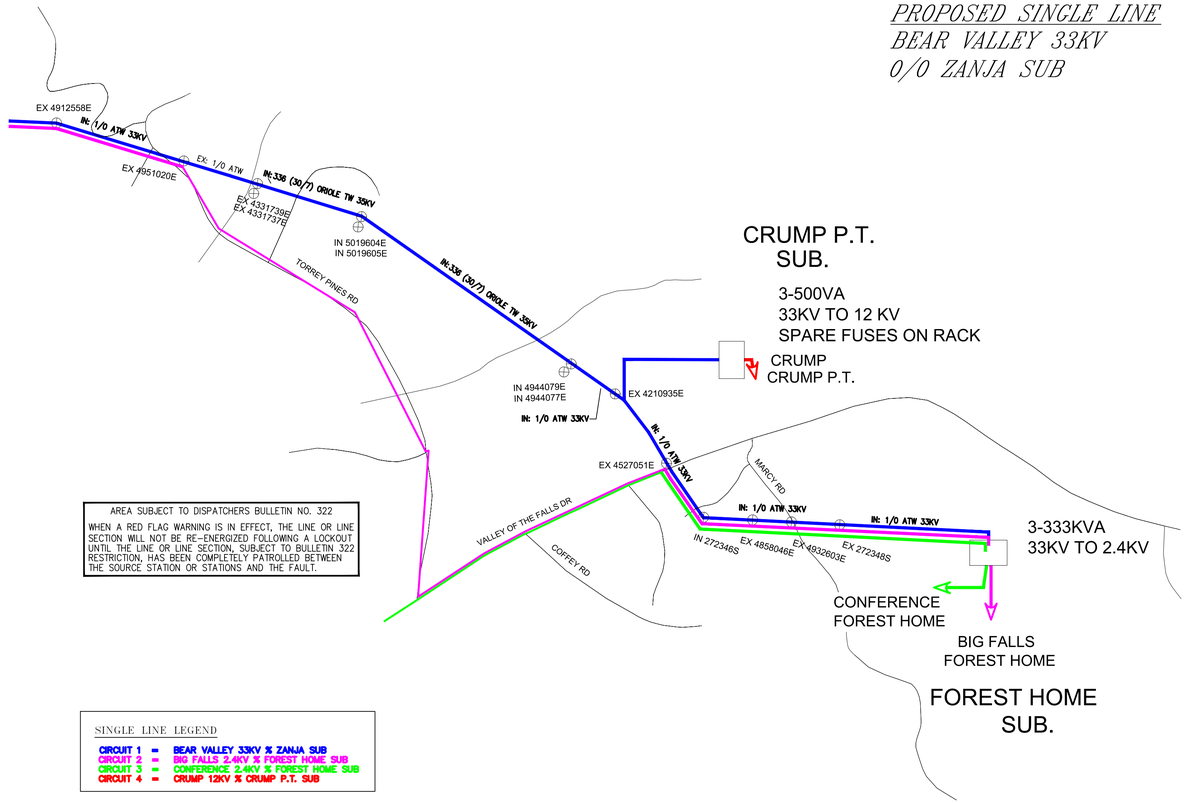

AREA SUBJECT TO DISPATCHERS BULLETIN NO. 322

WHEN A RED FLAG WARNING IS IN EFFECT, THE LINE OR LINE SECTION WILL NOT BE RE-ENERGIZED FOLLOWING A LOCKOUT UNTIL THE LINE OR LINE SECTION, SUBJECT TO BULLETIN 322 RESTRICTION, HAS BEEN COMPLETELY PATROLLED BETWEEN THE SOURCE STATION OR STATIONS AND THE FAULT.

SINGLE LINE LEGEND

CIRCUIT 1 = BEAR VALLEY 33KV % ZANJA SUB
CIRCUIT 2 = BIG FALLS 2.4KV % FOREST HOME SUB
CIRCUIT 3 = CONFERENCE 2.4KV % FOREST HOME SUB
CIRCUIT 4 = CRUMP 12KV % CRUMP P.T. SUB

## *PROPOSED SINGLE LINE*
## *BEAR VALLEY 33KV*
## *O/O ZANJA SUB*




AREA SUBJECT TO DISPATCHERS BULLETIN NO. 322

WHEN A RED FLAG WARNING IS IN EFFECT, THE LINE OR LINE SECTION WILL NOT BE RE-ENERGIZED FOLLOWING A LOCKOUT UNTIL THE LINE OR LINE SECTION, SUBJECT TO BULLETIN 322 RESTRICTION, HAS BEEN COMPLETELY PATROLLED BETWEEN THE SOURCE STATION OR STATIONS AND THE FAULT.

SINGLE LINE LEGEND

CIRCUIT 1 = BEAR VALLEY 33KV % ZANJA SUB
CIRCUIT 2 = BIG FALLS 2.4KV % FOREST HOME SUB
CIRCUIT 3 = CONFERENCE 2.4KV % FOREST HOME SUB
CIRCUIT 4 = CRUMP 12KV % CRUMP P.T. SUB

FINAL DESIGN
APPROVED FOR CONSTRUCTION

NOT TO SCALE

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

| | | | | | |
|---|---|---|---|---|---|
| DISTRICT: 31 – REDLANDS | | PROJ. MGR. ALVAREZ, LISSETTE PHONE 310-608-5084 | | PLANNER TURNER, HEATHER PHONE 9512498513 | DESIGNER TURNER, HEATHER |
| PROJECT NO. 2748477 | SERVICE REQUEST 3632671 | MSR NO. | PRODUCT-1 2198084–GRID RESILIENCY | | ASSOC DESGN 1679608 |
| CIRCUIT / VOLTAGE BEAR VALLEY 33KV | | GPS | PRODUCT-2 | | ASSOC DESGN |
| SUB / PG NO. ZANJA | | CIRCUIT CODE 8035 | PRODUCT-3 | | ASSOC DESGN |
| INVENTORY MAP | | J.P.A. NO. | PROPOSED CONSTRUCTION (LOCATION) COVERED CONDUCTOR–GR–PIF531064 TORREY PINES RD/VALLEY OF THE FALLS DR. FOREST FALLS CA 92339 | | |
| TYPE | DATE | APPROVED BY | CHECKED BY | DRAWN BY | PAX # |
| F | 5/6/24 | B.WATKINS | E.URENO | H.TURNER | |
| Southern California Edison Company | | | | | SHEET 1 OF 3 — DESIGN\DRWG NO. 1679608_0.01 |

FILE NAME: I:\1679608_0.01.DWG SAVE DATE: 5/7/2024 7:32 AM SAVED BY: TURNERHA

TORREY PINES RD

MOMYER CREEK

TORREY PINES RD

MILL CREEK

SEE SHEET 2
MATCH LINE "A"

EX 1/0 ACSR 3/C BEAR VALLEY 33KV
EX #6 STR CU 2/C BIG FALLS 2.4KV

EX 1/25/12.0-120/240

POLE,ARMS AND EQUIPMENT DONE BY OTHERS AND POLES AND GUY WIRE LEFT ON SITE BY OTHERS

RM: 237' 3/C 1/0 STR AL BARE ACSR 33KV
IN: 237' 3/C 1/0 ATW XLHDPE 35KV

EX: 2/C #6C (BIG FALLS 2.4KV)

RM: 250' 3/C 1/0 STR AL BARE ACSR 33KV
IN: 250' 3/C 1/0 ATW XLHDPE 35KV

EX: 2/C #6C (BIG FALLS 2.4KV)

EX: 212' 3/C 1/0 ATW XLHDPE 35KV

EX 1/0 3/C ATW XLHDPE BIG FALLS 2.4KV

EX 4331737E

EX 4242368E
EX 1/25/2400/4160-120/240

EX SCE BIG FALLS WEATHER STA-2124

EX 1/0ATW-2.4 KV 2/C

EX X17059E
EX 1/50/2400/4160-120/240

EX 60342S

EX 1/0ATW-2.4 KV 2/C

EX 4912540E
35 2018 CL-2

RM: 570' 3/C #6 COPPERWELD 33KV
IN: 570' 3/C 336 ATW 30/7 ORIOLE 35KV

30X7 ORILE WIRE HERE

RM: 770' 3/C #6 COPPERWELD 33KV
IN: 770' 3/C 336 ATW 30/7 ORIOLE 35KV

30X7 ORILE WIRE HERE

IN: 3/8 DG
IN: 1"X10' 3 EYE ANCHOR W/PLT

RM: 9/32 DG
RM: 1"X10' 3 EYE ANCHOR W/PLT

---

1

ELEVATION ABOVE 5,000FT
TD2198084
EX: 4912558E — EXTREME POLE
75' — CLASS H2
RM: 1461' – CD 1/0 STR AL BARE ACSR NON-GREASED (487' SPAN TO 4951020E)
RM: 3 – INS GLASS/POLY 35KV & LESS
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 711' – 1/0 ATW XLHDPE INS CABLE 35kV (237' SPAN TO 4859542E)
IN: 3 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR

EX: 10' DBL DE COMP XA W/VB

COVERED TO BARE TRANSITION REQUIRES CONNECTOR AND DEAD END COVERS ON THE BARE WIRE SIDE

CREW NOTE:
-TRUCK ACCESS OK

2

ELEVATION ABOVE 5,000FT
TD2198084
EX: 4859542E — EXTREME POLE
50' — CLASS H3
RM: 6 – INS GLASS/POLY 35KV & LESS
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 750' – 1/0 ATW XLHDPE INS CABLE 35kV (250' SPAN TO 4951020E)
IN: 6 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR
IN: 3 – INS 46KV POLY POST VRT CLMP TOP EXLG STD

EX: 10' DBL DE COMP XA W/VB

POST TYPE INSULATORS REQUIRED

CREW NOTE:
-TRUCK ACCESS OK

POLE AND ARMS DONE BY OTHERS

3

ELEVATION ABOVE 5,000FT
TD2198084
EX: 4951020E — EXTREME POLE
55' — CLASS 3
RM: 3 – INS GLASS/POLY 35KV & LESS
IN: 3 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 3 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR

EX: 10' DBL DE COMP XA W/VB

POLE AND ARMS AND ANCHOR DONE BY OTHERS

CREW NOTE:
-TRUCK ACCESS OK
-EX 1/0 ATW XLHDPE 35KV TO 4331739E
-LOCATED NEAR 9030 TORREY PINES DR., FOREST FALLS

4

ELEVATION ABOVE 5,000FT
TD2198084
EX: 4331739E — EXTREME POLE
55' — CLASS 1
RM: 6 – MISC OH CC AVIAN DE COVER W/DF EXTENSION
RM: 1710' – CD #6 SOLID BARE CU (COPPERWELD)(570' SPAN TO 272343S)
RM: 3 – INS GLASS/POLY 35KV & LESS
IN: 3 – MISC VBR DMP CVR COND 35KV 336 30/7
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 1710' – 336 ATW 30X7 XLHDPE INS CABLE 35kV (570' SPAN TO 272343S)
IN: 3 – INS POLY DE 33KV HVY LOAD 336 ACSR

EX: 20' DBL DE COMP XA W/VB (HFRAME)

PER NOTIFICATION CONNECTOR COVER MISSING, OPEN OR IT SLID DOWN OR WIRE EXPOSED

ARMS DONE BY OTHERS AND 6X6 WASHERS REQUIRED

CREW NOTE:
-TRUCK ACCESS OK
-T/C REQ
-LOCATED NEAR 9019 TORREY PINES DR., FOREST FALLS
-NEW 336 ATW 30/7 ORIOLE 35KV PER LONG SPAN ENGINEERING

5

ELEVATION ABOVE 5,000FT
TD2198084
RM: 272343S — EXTREME POLE
45' — CLASS 1
RM: 1 – POLE 45' CLASS 1 WOOD FULL TREAT
RM: 1 – XA DBLE ALLEY ARM 12' W/BRC
RM: 2310' – CD #6 SOLID BARE CU (COPPERWELD) (770' SPAN TO 4944077E/4944079E)
RM: 7 – INS GLASS/POLY 35KV & LESS
RM: 1 – AG DOWN GUY 9/32" – 50' MORE THAN 22.5KV
RM: 1 – AG 17" PLT W/ 1"X10' 3 EYE ROD

PER NOTIFICATION INSTALL HIGH SIGNS

6

ELEVATION ABOVE 5,000FT
TD2198084
IN: 5019604E — EXTREME POLE
50' — CLASS 1
IN: 1 – POLE 50' CL 1 WD FT /W PROT BARR WF
IN: 3 – MISC VBR DMP CVR COND 35KV 336 30/7
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 1 – XA, H-FRM, DE, 20', COMP X-ARM W/2 VB'S & 2 STND OFF BKTS
IN: 2310' – 336 ATW 30X7 XLHDPE INS CABLE 35kV (770' SPAN TO 4944077E/4944079E)
IN: 6 – INS POLY DE 33KV HVY LOAD 336 ACSR
IN: 3 – INS 46KV POLY POST VRT CLMP TOP EXLG STD

USA REQUIRED TO CALL IN

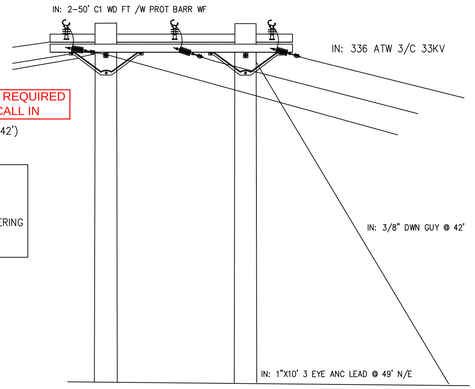
E ALL POLE

7

ELEVATION ABOVE 5,000FT
TD2198084
IN: 5019605E — EXTREME POLE
50' — CLASS 1
IN: 1 – POLE 50' CL 1 WD FT /W PROT BARR WF
IN: 1 – AG DOWN GUY 3/8"–50' W/1–FGSI ALL KV (ATTACHED @ 42')
IN: 1 – AG 17" PLT W/ 1"X10' 3 EYE ROD (LEAD 49' N/E)

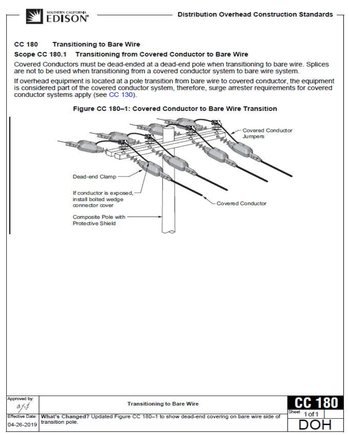
USA REQUIRED TO CALL IN

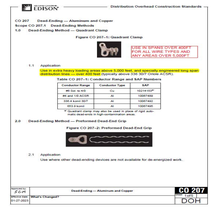
CREW NOTE:
-NO TRUCK ACCESS
-HELICOPTER SET REQ
-HARD SET 1' WEST (NEW HFRAME)
-NEW 336 ATW 30/7 ORIOLE 35K PER LONG SPAN ENGINEERING
-SOIL TYPE A CLASS 6
-GPS: LAT 34.089922, LONG -116.9244480



PROPOSED HFRAME (POLE#'S 5019604E & 5019605E) L/N

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ALL POLES ON THIS PROJECT ARE ABOVE 5,000FT HEAVY LOADING AREAS
DOUBLE COMP ARMS ARE TO BE INSTALLED ON EVERY STRUCTURE EXCEPT EQUIPMENT ARMS
V BRACES REQUIRED WITH V BRACE BRACKET WITH 4X4 WASHERS TOP AND BOTTOM
6X6 WASHERS ON ALL 12ft DEAD END ARMS TOP AND BOTTOM OF ARM AND V BRACES
POST POLYMER INSULATORS MUST BE USED WITH WASHERS TOP AND BOTTOM
PISTOL GRIP SHOES ARE REQUIRED ON EVERY PRIMARY DEAD END STATION
CENTER LINE DEADENDING REQUIRED ON HARD DEAD END AND CORNER POLES

COMP ARMS REQUIRE THE INSTALLATION 12" FROM THE TOP OF THE POLE, 4X4 WASHERS ON ALL BOLTS AND TOP AND BOTTOM OF V BRACE,PINS IN 5,000FT. AND ABOVE AND SPLIT BOLT AT TOP OF ALL POLES.
CENTER LINE DEADENDING REQUIRED ON ALL HARD DEAD ENDS AND CORNER POLES

ALL POLES IN HFA AREAS REQUIRE POLE TOP TAG, ALL SECONDARY TRIPLEX AND TRANSFORMER CONNECTIONS REQUIRE 33 TAPE. ALL WEATHER HEAD CONNECTIONS IN ALL AREAS REQUIRE TAPE PER GO 95

INSTALL RISER WARNING STICKER ON ALL SECONDARY, PRIMARY AND PRIMARY NEUTRAL RISERS 4-6FT. FROM BASE, CAPACITOR, POTHEAD AND TRANSFORMER LA GROUND TAPS TO 4TH WIRE WHEN PRESENT


HELICOPTER SET REQUIRED ON THIS WORK ORDER

D158: Rev. 02/08/23

ASPLUNDH MAP REVISIONS IN RED 7-18-2024 JM

# FINAL DESIGN
## APPROVED FOR CONSTRUCTION

N

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

NOT TO SCALE

| | | | | | |
|---|---|---|---|---|---|
| DISTRICT: 31 – REDLANDS | PROJ. MGR. ALVAREZ, LISSETTE PHONE 310-608-5084 | | PLANNER TURNER, HEATHER PHONE 9512498513 | DESIGNER TURNER, HEATHER | |
| PROJECT NO. 27484777 | SERVICE REQUEST 36326711 | MSR NO. | PRODUCT-1 2198084-GRID RESILIENCY | | ASSOC DESGN 1679608 |
| CIRCUIT / VOLTAGE BEAR VALLEY 33KV | | GPS | PRODUCT-2 | | ASSOC DESGN |
| SUB / PG NO. ZANJA | | CIRCUIT CODE 8035 | PRODUCT-3 | | ASSOC DESGN |
| INVENTORY MAP | | J.P.A. NO. | PROPOSED CONSTRUCTION (LOCATION) COVERED CONDUCTOR-GR-PIF531064 TORREY PINES RD/VALLEY OF THE FALLS DR. FOREST FALLS CA 92339 | | |
| F 5/6/24 B.WATKINS E.URENO H.TURNER | | | | | |
| TYPE DATE APPROVED BY CHECKED BY DRAWN BY PAX # | | | SHEET 2 OF 3 | DESIGN\DRWG NO. 1679608_0.01 | |
| Southern California Edison Company | | | | | |

FILE NAME:1679608_LID.DWG SAVE DATE:5/7/2024 7:32 AM SAVED BY:SUMQUINA

SEE SHEET 2
MATCH LINE "A"

MILL CREEK

MEMO: SEE SHEET 2

ELEVATION ABOVE 5,000FT
TD2198084
8 RM: 4944079E EXTREME POLE
45' CLASS 1
RM: 1 – POLE 45' CLASS 1 WOOD FULL TREAT
RM: 1 – XA, H-FRM, DE, 20', COMP X-ARM
RM: 105' – CD #6 SOLID BARE CU (COPPERWELD)(TO 0935E)
RM: 12 – INS GLASS/POLY 35KV & LESS
RM: 3 – AG DOWN GUY 9/32" – 50' MORE THAN 22.5KV
RM: 1 – AG ANCHOR ROD 3/4" X 8' 2-EYE W/PLATE

ELEVATION ABOVE 5,000FT
TD2198084
9 RM: 4944077E EXTREME POLE
45' CLASS 1
RM: 1 – POLE 45' CL 1 WD FT /W PROT BARR WF

CREW NOTE:
–NO TRUCK ACCESS
–HFRAME C/O PER ENGINEERING

ELEVATION ABOVE 5,000FT
TD2198084
10 IN: 4944079E EXTREME POLE
50' CLASS 1
IN: 1 – POLE 50' CL 1 WD FT /W PROT BARR WF
IN: 3 – MISC VBR DMP CVR COND 35KV 336 30/7
IN: 1 – XA, H-FRM, DE, 20', COMP X-ARM W/2 VB'S & 2 STND OFF BKTS
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 105' – 1/0 ATW XLHDPE INS CABLE 35kV (35' SPAN TO 4210935E)
IN: 3 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR
IN: 3 – INS POLY DE 33KV HVY LOAD 336 ACSR
IN: 3 – INS 46KV POLY POST VRT CLMP TOP EXLG STD
IN: 3 – AG DOWN GUY 3/8"–50' W/1–FGSI ALL KV(ATTACHED @ 41' & 40')
~~IN: 1 – AG 17" PLT W/ 1"X10' 3 EYE ROD (21' TO N/E)~~

USA REQUIRED TO CALL IN

E ALL POLE

ELEVATION ABOVE 5,000FT
TD2198084
11 IN: 4944077E EXTREME POLE
50' CLASS 1
IN: 1 – POLE 50' CL 1 WD FT /W PROT BARR WF

USA REQUIRED TO CALL IN

CREW NOTE:
–NO TRUCK ACCESS
–SOIL TYPE A CLASS 6
–GPS: LAT 34.088624, LONG –116.922579

E ALL POLE

IN-1-1"1/4 PLATE HERE PLANNER MISTAKE ON STA 8/10

ELEVATION ABOVE 5,000FT
TD2198084
12 EX: 4210935E EXTREME POLE
45' CLASS H5
RM: 1 – XA SNGL TAN HD COMP 10' W/BKT
RM: 276' – CD #6 SOLID BARE CU (COPPERWELD)(TO 7051E)
RM: 3 – INS GLASS/POLY 35KV & LESS
IN: 1 – XA DBL HD DE COMP 10' W/VB & STND OFF BKT
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 276' – 1/0 ATW XLHDPE INS CABLE 35kV (92' SPAN TO 4527051E)
IN: 6 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR
IN: 3 – INS 46KV POLY POST VRT CLMP TOP EXLG STD

CREW NOTE:
–TRUCK ACCESS OK
–INSTALL COVERED CND ON BEAR VALLEY 33KV MAINLINE
–LOCATED NEAR 4043J VALLEY OF THE FALLS DR., FOREST FALLS

IN: 2–50' C1 WD FT /W PROT BARR WF
IN: 336 ATW 3/C 33KV
IN: 1/0 ATW 3/C 33KV
IN:2–3/8" DG @ 42'
IN: 3/8" DG @ 41'
EX ANC LEAD @ 28' S
IN: 1"X10' 3 EYE ANC LEAD 21' N/E
PROPOSED HFRAME (POLE#'S 4944079E & 4944077E) L/NE

RM: 3/4" x 8' 2 EYE ANCHOR W/PLT
IN:1"X10' 3 EYE ANCHOR W/PLT
RM: 9/32" DG
IN: 3/8" DG
RM: 2– 9/32 DG
IN: 2–3/8 DG
EX ANCHOR
EX 4895746E
EX 4210936E
3/500/34400–7200
EX 4918046E
RAR0026 CRUMP 12KV
CRUMP P.T. SUB
3–500VA
33KV TO 12KV
SPARE FUSES ON RACK
EX 3/C 1/0 ACSR 12KV
EX 4210934E
EX 336A–12
EX 4893470E
EX 1/0 A–24
EX 1/0 ATW–720
EX 4823800E
RM: 35' 3/C #6 COPPERWELD 33KV
IN: 35' 3/C 1/0 ATW XLHDPE 35KV
RM: 92' 3/C #6 COPPERWELD 33KV
IN: 92' 3/C 1/0 ATW XLHDPE 35KV
INTERSET POLE DONE BY OTHERS NOT ON MAP 4932636E
RM:182' 3/C #6 COPPERWELD 33KV
IN: 182' 3/C 1/0 ATW XLHDPE 35KV
VALLEY OF THE FALLS DR
EX 336A–12
EX 8852CWT
GT258342
45 1992 CL–4
EX 336A–12
4893451E
45 2016 CL–H1
MARCY RD

ALL POLES ON THIS PROJECT ARE ABOVE 5,000FT HEAVY LOADING AREAS
DOUBLE COMP ARMS ARE TO BE INSTALLED ON EVERY STRUCTURE EXCEPT EQUIPMENT ARMS
V BRACES REQUIRED WITH V BRACE BRACKET WITH 4X4 WASHERS TOP AND BOTTOM
6X6 WASHERS ON ALL 12ft DEAD END ARMS TOP AND BOTTOM OF ARM AND V BRACES
POST POLYMER INSULATORS MUST BE USED WITH WASHERS TOP AND BOTTOM
PISTOL GRIP SHOES ARE REQUIRED ON EVERY PRIMARY DEAD END STATION
CENTER LINE DEADENDING REQUIRED ON HARD DEAD END AND CORNER POLES

COMP ARMS REQUIRE THE INSTALLATION 12" FROM THE TOP OF THE POLE, 4X4 WASHERS ON ALL BOLTS AND TOP AND BOTTOM OF V BRACE,PINS IN 5,000FT. AND ABOVE AND SPLIT BOLT AT TOP OF ALL POLES.
CENTER LINE DEADENDING REQUIRED ON ALL HARD DEAD ENDS AND CORNER POLES

ALL POLES IN HFA AREAS REQUIRE POLE TOP TAG, ALL SECONDARY TRIPLEX AND TRANSFORMER CONNECTIONS REQUIRE 33 TAPE. ALL WEATHER HEAD CONNECTIONS IN ALL AREAS REQUIRE TAPE PER GO 95

INSTALL RISER WARNING STICKER ON ALL SECONDARY, PRIMARY AND PRIMARY NEUTRAL RISERS 4-6FT. FROM BASE. CAPACITOR, POTHEAD AND TRANSFORMER LA GROUND TAPS TO 4TH WIRE WHEN PRESENT

ELEVATION ABOVE 5,000FT
TD2198084
13 EX: 4527051E EXTREME POLE
60' CLASS 2
RM: 1 – XA SNGL TAN HD COMP 10' W/BKT
RM: 546' – CD #6 SOLID BARE CU (COPPERWELD)(TO 2346S)
RM: 3 – INS GLASS/POLY 35KV & LESS
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 1 – XA DBL HD DE COMP 10' W/VB & STND OFF BKT
IN: 546' – 1/0 ATW XLHDPE INS CABLE 35kV (182' SPAN TO 272346S)
IN: 6 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR
IN: 3 – INS 46KV POLY POST VRT CLMP TOP EXLG STD

CREW NOTE:
–TRUCK ACCESS OK
–T/C REQ (LANE CLOSURE)

RM: 2– 1/2" DWN GUY
IN: 2– 7/16" DWN GUY
EX ANCHORS (30'6"& 35'6" LEADS)
IN: 3/8" DWN GUY
EX ANCHOR (30' 6" LEAD)
EX ANCHORS (30'6"& 35'6" LEADS)
RM: 2– 1/2" DWN GUY
IN: 2– 7/16" DWN GUY
RM:174' 3/C #6 COPPERWELD 33KV
RM:174' 3/C 1/0 ATW XLHDPE 35KV
EX 47–120
EX 1609479E
RM:97' 3/C #6 COPPERWELD 33KV
IN:97' 3/C 1/0 ATW XLHDPE 35KV
EX 1/25/2400–120/240
BIG FALLS 2.4KV
RM:81' 3/C #6 COPPERWELD 33KV
IN:81' 3/C 1/0 ATW XLHDPE 35KV
EX PS3329
BIG FALLS 2.4KV
RM:80' 3/C #6 COPPERWELD 33KV
IN:80' 3/C 1/0 ATW XLHDPE 35KV
EX PS0034
BIG FALLS 2.4KV
FOREST HOME SUB

ELEVATION ABOVE 5,000FT
TD2198084
14 RM: 272346S EXTREME POLE
50' CLASS 3
RM: 1 – POLE 50' CLASS 3 WOOD FULL TREAT
RM: 3 – XA DBLE VB 10' STEEL PINS N/BOND
RM: 1 – XA SNGL VB 10' STEEL PINS
RM: 522' – CD #6 SOLID BARE CU (COPPERWELD) (174' SPAN TO 4858046E)
RM: 26 – INS GLASS/POLY 35KV & LESS
RM: 4 – AG DOWN GUY 1/2" – 50' MORE THAN 22.5KV
TR: 4– CD #4C 3/C 2.4KV (BIG FALLS 2.4KV, CONFERENCE 2.4KV)

IN:1/0 ATW 33KV 3/C
IN: 50' C2 WD FT/W PROT BARR WF
IN:1/0 ATW 33KV 3/C
EX:#4 COPPERWELD 2.4KV 3/C BIG FALLS
EX:#4 COPPERWELD 2.4KV 3/C CONFERENCE
EX:2A 2.4KV 3/C BIG FALLS
EX:2A 2.4KV 3/C CONFERENCE
IN:7/16" DWN GUY @ 45'
IN:7/16" DWN GUY @ 40'
IN:7/16" DWN GUY @ 36'
IN:3/8" DWN GUY @ 33'
IN:7/16" DWN GUY @ 30'
EX ANCHOR (LEAD 35' 6")
EX ANCHOR (LEAD 30' 6")
EX ANCHOR (LEAD 30' 6")
EX ANCHOR (LEAD 35' 6")
EX ANCHOR (LEAD 30' 6")
PROPOSED POLE# 272346S L/N

PLANNER AND PGS APPROVED TO KEEP EXISTING 55 CL1 IN FIELD

ELEVATION ABOVE 5,000FT
TD2198084
15 EX 272346S EXTREME POLE
50' CLASS H3
IN: 1 – POLE 50' CL H3 WD FT /W PROT BARR WF
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 4 – XA DBL HD DE COMP 10' W/VB & STND OFF BKT
IN: 522' – 1/0 ATW XLHDPE INS CABLE 35kV (174' SPAN TO 4858046E)
IN: 6 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR
IN: 6 – INS POLY POST 33KV CLMP #4–336
IN: 3 – INS 46KV POLY POST VRT CLMP TOP EXLG STD
IN: 12 – INS POLY DE 4KV HVY LOAD #4 & 1/0 ACSR
IN: 4 – AG DOWN GUY 7/16"–50' W/1–FGSI ALL KV (ATTACHED @ 43', 40', 34', 30')(EX ANCHORS)
IN: 1 – AG DOWN GUY 3/8"–50' W/1–FGSI ALL KV (ATTACHED @ 33')(EX ANCHOR, NO EX DWN GUY)

NEW 55CL1 COMP FIRE BARRIER POLE IN BY OTHERS

USA REQUIRED TO CALL IN

J HOOK

CREW NOTE:
–NO TRUCK ACCESS
–HARDSET 1' N/W
–SOIL TYPE A CLASS 6
–GPS: LAT 34.087803, LONG –116.922122

PER NOTIFICATION
1- INSTALL HIGH SIGNS
2- SECONDARY COTTER KEY BACKING OUT

ELEVATION ABOVE 5,000FT
TD2198084
16 EX: 4858046E EXTREME POLE
50' CLASS 1
RM: 1 – XA SNGL TAN HD COMP 10' W/BKT W/VB & STND OFF BKT
RM: 291' – CD #6 SOLID BARE CU (COPPERWELD)(TO 2603E)
RM: 3 – INS GLASS/POLY 35KV & LESS
IN: 1 – XA DBL HD DE COMP 10' W/VB & STND OFF BKT
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 291' – 1/0 ATW XLHDPE INS CABLE 35kV (97' SPAN TO 4932603E)
IN: 6 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR
IN: 3 – INS 46KV POLY POST VRT CLMP TOP EXLG STD

CREW NOTE:
–NO TRUCK ACCESS

POLE AND EQUIPMENT DONE BY OTHERS

ELEVATION ABOVE 5,000FT
TD2198084
17 EX: 4932603E EXTREME POLE
50' CLASS 1
RM: 1 – XA SNGL TAN HD COMP 10' W/BKT W/VB & STND OFF BKT
RM: 243' – CD #6 SOLID BARE CU (COPPERWELD)
RM: 3 – INS GLASS/POLY 35KV & LESS
IN: 1 – XA DBL HD DE COMP 10' W/VB & STND OFF BKT
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 243' – 1/0 ATW XLHDPE INS CABLE 35kV (81' SPAN TO 272348S)
IN: 6 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR
IN: 3 – INS POLY POST 33KV CLMP #4–336

CREW NOTE:
–TRUCK ACCESS OK

#REPAIR FIRE WRAP DAMAGE

PER NOTIFICATION
1- CONNECTOR COVER MISSING, OPEN OR IT SLID DOWN OR WIRE EXPOSED
2- FIRE WRAP DAMAGE

ELEVATION ABOVE 5,000FT
TD2198084
18 EX: 272348S EXTREME POLE
50' CLASS 1
RM: 240' – CD #6 SOLID BARE CU (COPPERWELD)(80' TO SUB)
RM: 9 – INS GLASS/POLY 35KV & LESS
IN: 6 – MISC OH CC AVIAN DE COVER W/DE EXTENSION
IN: 240' – 1/0 ATW XLHDPE INS CABLE 35kV (80' TO SUB)
IN: 9 – INS POLY DE 33KV HVY LOAD #4 & 1/0 ACSR
EX: 10' DBL DE COMP XA W/VB

CREW NOTE:
–TRUCK ACCESS OK
–SUBSTATION MEET REQ

COVERED TO BARE TRANSITION REQUIRES CONNECTOR AND DEAD END COVERS ON THE BARE WIRE SIDE

POLE AND ARMS DONE BY OTHERS

EDISON — Distribution Overhead Construction Standards
CC 180 Transitioning to Bare Wire
Scope CC 180.1 Transitioning from Covered Conductor to Bare Wire
Covered Conductors must be dead-ended at a dead-end pole when transitioning to bare wire. Splices are not to be used when transitioning from a covered conductor system to bare wire system.
If overhead equipment is located at a pole transition from bare wire to covered conductor, the equipment shall be isolated from the covered conductor system, therefore, surge arrester requirements for covered conductor systems apply (see CC 150).
Figure CC 180–1: Covered Conductor to Bare Wire Transition
Dead-end Clamp
Covered Conductor Jumpers
If conductor is exposed, apply approved connector cover
Composite Pole with Protective Shield
Covered Conductor
Effective Date: 04-26-2018 — What's Changed? Updated Figure CC 180-1 to show dead-end covering on bare wire side of transition point.
Transitioning to Bare Wire — CC 180 — POH

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SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

NOT TO SCALE

# FINAL DESIGN
## APPROVED FOR CONSTRUCTION

ASPLUNDH MAP REVISIONS IN RED 7-18-2024 JM

| | | | |
|---|---|---|---|
| DISTRICT: 31 – REDLANDS | PROJ. MGR. ALVAREZ, LISSETTE PHONE 310–608–5084 | PLANNER TURNER, HEATHER PHONE 9512498513 | DESIGNER TURNER, HEATHER |
| PROJECT NO. 2748477 | SERVICE REQUEST 3632671 | MSR NO. | PRODUCT–1 2198084–GRID RESILIENCY — ASSOC DESGN 1679608 |
| CIRCUIT / VOLTAGE BEAR VALLEY 33KV | GPS | PRODUCT–2 | ASSOC DESGN |
| SUB / PG NO. ZANJA | CIRCUIT CODE 8035 | PRODUCT–3 | ASSOC DESGN |
| INVENTORY MAP | J.P.A. NO. | PROPOSED CONSTRUCTION (LOCATION): COVERED CONDUCTOR–GR–PIF531064 TORREY PINES RD/VALLEY OF THE FALLS DR. FOREST FALLS CA 92339 | |

| F | 5/6/24 | B.WATKINS | E.URENO | H.TURNER | |
|---|---|---|---|---|---|
| TYPE | DATE | APPROVED BY | CHECKED BY | DRAWN BY | PAX # |

Southern California Edison Company

SHEET 3 of 3 — DESIGN\DRWG NO. 1679608_0.01

FILE NAME: N:\POWER_D\DWG SAVE DIR\5/7/2024 1:32 AM SAVED BY: TURNERHA