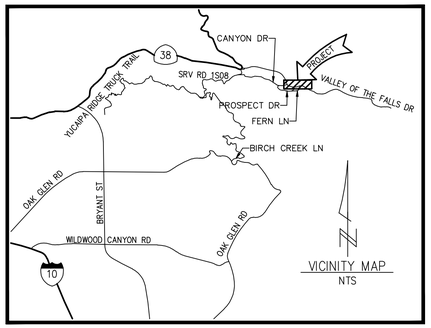
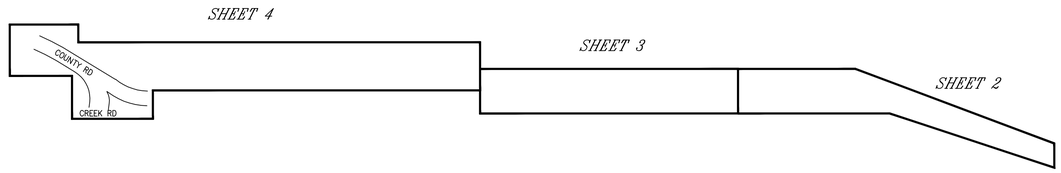


TD1671394
Big Falls 2.4kv
CCD: 7-24-2026

SHEET INDEX



INDEX MAP
NTS

PROJECT REQUIREMENTS (Y/N)	
EDISON EASEMENT REQUIRED	N
PWRD 88 REQUIRED	N
UC CIVIL ONLY WORK ORDER	N
PERMIT REQUIRED	Y
PERMIT TYPE: EXCAVATION	
OUTAGE REQUIRED	Y
OUTAGE DATE: _____ TIME: _____	
TRAFFIC CONTROL REQUIRED	N
PED. TRAFFIC CONTROL REQ'D	N
CONVEYANCE LETTER REQ'D	N
ENVIRONMENTAL CLEARANCE REQ'D	N
CSD 140 (TLM) REQ'D	N

D124: Rev. 02/08/18

RELATED TD'S / DESIGN NO.'S
TD1662779/1244172
TD1551239/1154286

INVENTORY MAP NO.'S
216-25322-2
216-2316-2

THOMAS GUIDE MAP NO.'S
CASNBR 611-E2
CASNBR 611-D2
CASNBR 611-C2

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

FINAL DESIGN
APPROVED FOR CONSTRUCTION

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DTE: Rev. 05/28/20

CONTRACT PLANNER: JACOB GIBSON/HTE
PHONE: 909-628-1253

DISTRICT: 31 – REDLANDS	PROJ. MGR. BRANDEN COLEMAN PHONE 714-514-0023		PLANNER LUIS ESTRADA PHONE 909-820-5614			SR NO. **2824510**
FOREMAN	TRUCK NO.	P/E	INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE ABOVE	GRID NO.	DESIGN NO. **1251109**
CSD 140 Y___ N___	BY-PASS CODE	EXISTING _____ CHANGE TO _____	TLM CHECKED _____ %LOAD		J.P.A. NO.	ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. **TD1671394**		PRODUCT/SAP NO.			PRODUCT/SAP NO.	

F	ANN LENOIR	8/28/2020				
P		05/29/20		N.MENDOZA/HTE		
B		05/11/20	RW/HTE/AP	AP/HTE		
TYPE	APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #	

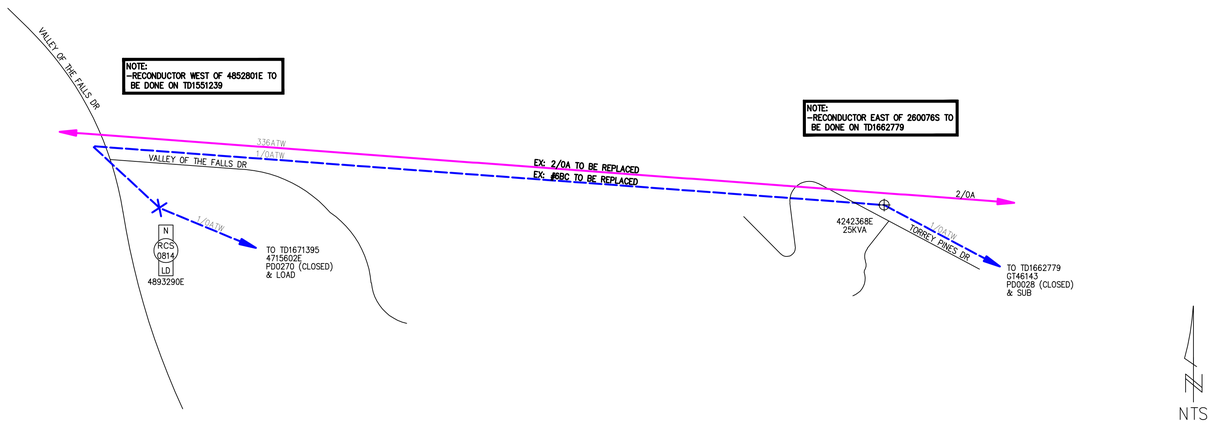
PROPOSED CONSTRUCTION (LOCATION)
PIF#131028 – 2021 GRID RESILIENCY – BIG FALLS 2.4KV
VARIOUS LOCATIONS
FOREST FALLS, CA 92339

Southern California Edison Company

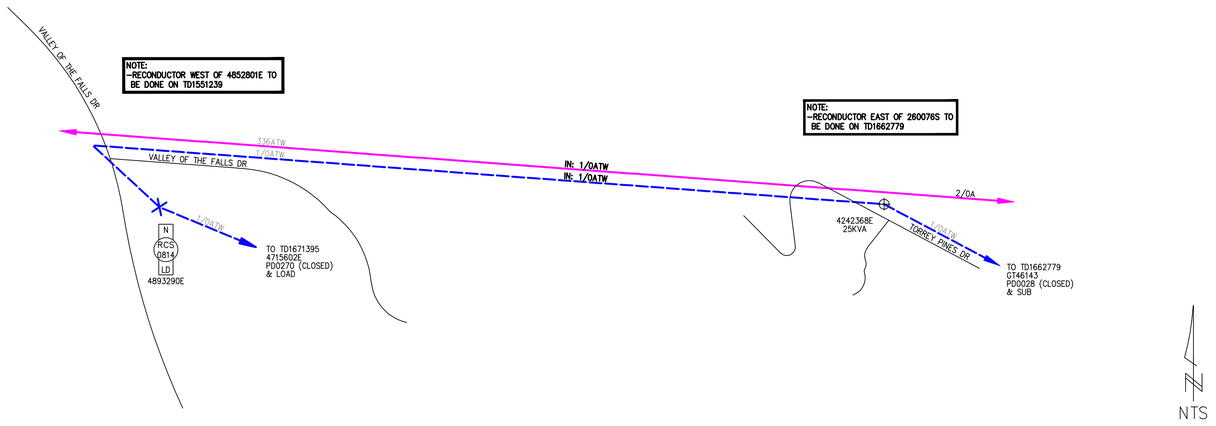
SHEET 1 OF 4

JOB NO. 1251109

AS-IS SINGLE LINE
BIG FALLS 2.4KV o/o FOREST HOME SUB



PROPOSED SINGLE LINE
BIG FALLS 2.4KV o/o FOREST HOME SUB



SINGLE LINE LEGEND

CIRCUIT 1 = BIG FALLS 2.4KV o/o FOREST HOME SUB
CIRCUIT 2 = BEAR VALLEY 33KV o/o ZANJA SUB

RELATED TD'S / DESIGN NO.'S
TD1662779/1244172
TD1551239/1154286

INVENTORY MAP NO.'S
216-25322-2
216-2316-2

THOMAS GUIDE MAP NO.'S
CASNBR 611-E2
CASNBR 611-D2
CASNBR 611-C2

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

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DISTRICT: 31 – REDLANDS		PROJ. MGR. BRANDEN COLEMAN PHONE 714-514-0023		PLANNER LUIS ESTRADA PHONE 909-820-5614		SR NO. **2824510**	
FOREMAN		TRUCK NO.	P/E	INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE ABOVE	GRID NO.	DESIGN NO. **1251109**
CSD 140 Y___ N___	BY-PASS CODE	EXISTING _____ CHANGE TO _____		TLM CHECKED _____ %LOAD		J.P.A. NO.	ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. **TD1671394**		PRODUCT/SAP NO.				PRODUCT/SAP NO.	

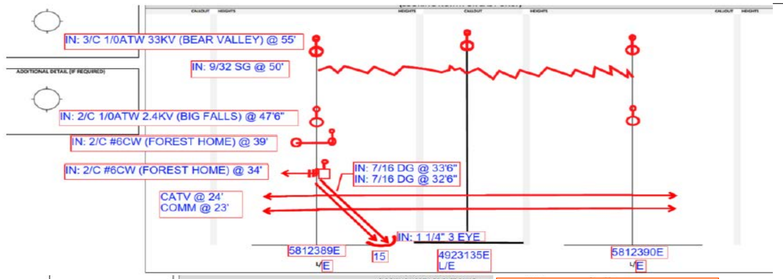
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P		05/29/20		N.MENDOZA/HTE	
P		05/11/20	RW/HTE/AP	AP/HTE	
TYPE	APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #

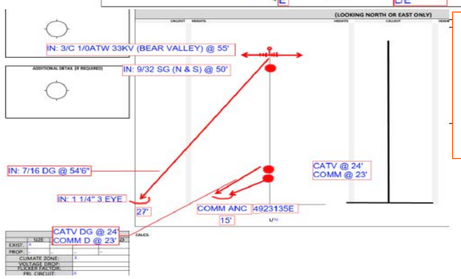
PROPOSED CONSTRUCTION (LOCATION)
PIF#131028 – 2021 GRID RESILIENCY – BIG FALLS 2.4KV
VARIOUS LOCATIONS
FOREST FALLS, CA 92339

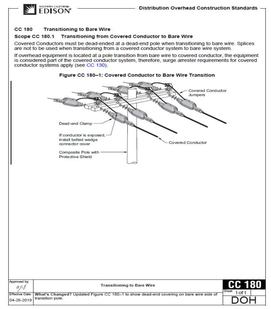
Southern California Edison Company

SHEET 1A OF 4

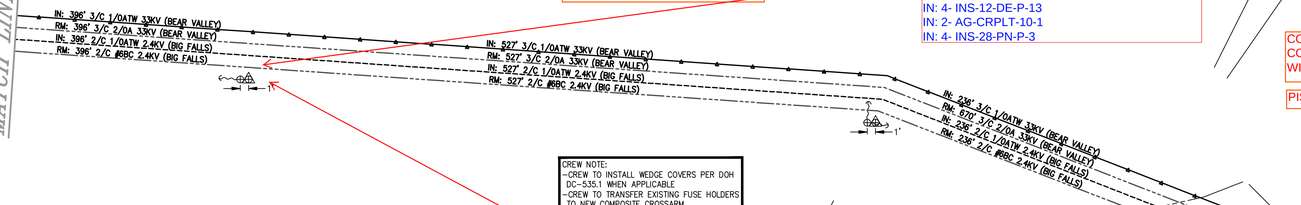
JOB NO. 1251109

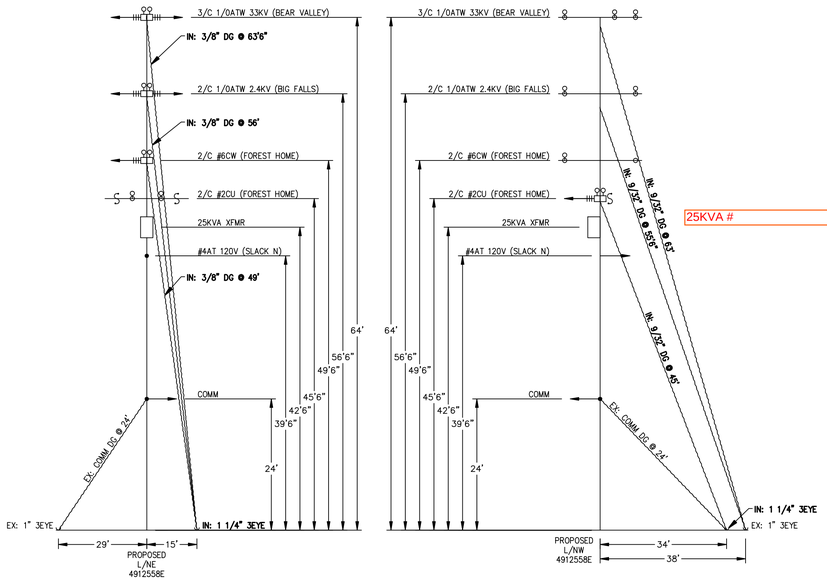






SEE SHEET 3
MATCH LINE "A"





CREW NOTE:
-CREW TO INSTALL WEDGE COVERS PER DOH DC-535.1 WHEN APPLICABLE

NOTE:
-NO TC REQUIRED
-NO PTC REQUIRED
-HIGH FIRE TIER 3
-EAGLE ZONE
-E TO PTD
-FTR TO SOP
-HELICOPTER SET REQUIRED
-POLE BEING REPLACED TO MAINTAIN PROPER SAG CLEARANCES PER G.O. 95
-BUDDYPOLE@SCE NOTIFIED ON 07/20/20

GPS:
LAT: 34°05'29.10"
LONG: 116°55'47.82"

ELEVATION: 5257 FT

RM: 4923135E POLE (5)

55' CLASS H3 (2019) INSP. N/A
RM: 527' 3/C 2/0A 33KV (TO 2558E)
527' 2/C #6BC 2.4KV (TO 2558E)
1-10' SGL HEAVY TANGENT COMPOSITE XARM W/BRKT
1-10' DBL DE COMPOSITE XARM W/BRKT
2-10' SGL DE COMPOSITE XARM W/BRKT
3-33KV POLY P&I
4-12KV POLY P&I (CU)
8-4KV DE (#6BC)
1-3/8" DOWN GUY
1-9/32" DOWN GUY
1-3/4"x8' DBLE EYE ANCHOR ROD & PLATE
1-8" SNGL HELIX SCREW ANCHOR
1-RAPTOR HOOD W/ SET OF 2 EXT.

SET POLE 1' WEST
IN: 4923135E POLE (6)

IN: 1- P-65-H2-CMP-PS-1
IN: 2- INS-33-DE-P-12
IN: 1- INS-33-PN-P-3
IN: 527' CD-ATW-1/0-A-1-3 1/C (TO 2558E)
IN: 1- AG-SPN-9/32-3 (TO 2390E)
IN: 2- MISC-D-CC-35-1/0-2
IN: 2- MISC-AV-DE-CVR-1
IN: 1- AG-DWN-7/16-3
IN: 1- AG-CRPLT-10-1
4-CLEVIS HEART

USA REQUIRED TO CALL IN

PISTOL GRIP SHOES REQUIRED

CREW NOTE:
-CREW TO INSTALL WEDGE COVERS PER DOH DC-535.1 WHEN APPLICABLE
-CREW TO TRANSFER EXISTING FUSE HOLDERS TO NEW COMPOSITE CROSSARM

NOTE:
-NO TC REQUIRED
-NO PTC REQUIRED
-HIGH FIRE TIER 3
-EAGLE ZONE
-E TO PTD
-FTR TO SOP
-HELICOPTER SET REQUIRED
-POLE BEING REPLACED TO MAINTAIN PROPER SAG CLEARANCES PER G.O. 95

GPS:
LAT: 34°05'28.64"
LONG: 116°55'41.46"

ELEVATION: 5261 FT

RM: 4912558E POLE (3)

65' CLASS 2 (2017) INSP. N/A
RM: 670' 3/C 2/0A 33KV (TO 1737E)
236' 2/C #6BC 2.4KV (TO 9542E)
2-10' DBLE XARM VB
2-10' SNGL XARM VB
3-33KV NYLON POLY PIN
5-12KV POLY P&I
6-33KV DE (#4 & 1/0A)
4-12KV DE (#4 & 1/0A)
1-166 ROLLER
1-9" EXT. BRKT FOR SEC ROLLER
1-9/32" DOWN GUY (33KV)
1-9/32" DOWN GUY
2-9/32" SPAN GUY (TO 9542E)
TR: 1-25KVA 2.4KV 120/240V 1Ø

25KVA #

USA REQUIRED TO CALL IN

EX
SET POLE 1' WEST
IN: 4912558E POLE (4)

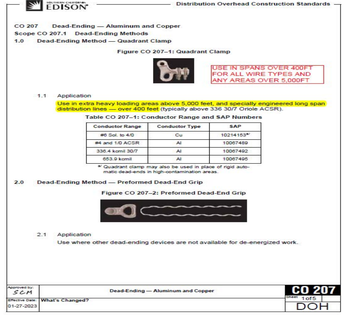
~~75' CLASS H2 WF~~
IN: 236' 3/C 1/0ATW 33KV (TO 9542E)
236' 2/C 1/0ATW 2.4KV (TO 9542E)
4-10' DBL DE COMPOSITE XARM W/BRKT
6-33KV NYLON POLY PIN
4-12KV NYLON POLY PIN
6-33KV DE (#4 & 1/0A)
4-4KV DE (#4 & 1/0A)
4-4KV DE (#6BC)
1-166 ROLLER
1-9" EXT. BRKT FOR SEC ROLLER
1-3/8" DOWN GUY (33KV)
2-3/8" DOWN GUY
1-9/32" DOWN GUY (33KV)
2-9/32" DOWN GUY
2-1 1/4"x10' TRPL EYE ANCHOR ROD & PLATE
10-WILDLIFE DE COVER
3-CLEVIS HEART

POLE,ARMS AND EQUIPMENT DONE BY OTHERS

GUY WIRE LEFT ON SITE BY OTHERS

#IN-2- HFA LA'S

PISTOL GRIP SHOES REQUIRED



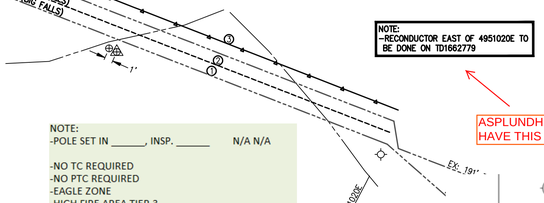
-CREW TO INSTALL WEDGE COVERS PER DOH DC-535.1 WHEN APPLICABLE

NOTE:
-POLE SET IN _____, INSP. _____ N/A N/A

-NO TC REQUIRED
-NO PTC REQUIRED
-EAGLE ZONE
-HIGH FIRE AREA TIER 3
HELICOPTER SET REQUIRED
POLE BEING INSTALLED TO BACK UP LONG SPANS

IN: 5812389E (7)

IN: 1- P-65-H2-CMP-PS-1
IN: 2- INS-33-DE-P-12
IN: 2- INS-33-PN-P-3
IN: 527' CD-ATW-1/0-A-1-3 1/C (TO 2558E)
IN: 2- INS-12-DE-P-14
IN: 2- MISC-D-CC-35-1/0-2
IN: 527' CD-ATW-1/0-A-1-1 1/C (TO 2558E)
IN: 2- MISC-D-CC-17-VAR-1
IN: 1- XA-DE-CMP-10-DB-1
IN: 1- XA-DE-CMP-10-SG-2
IN: 1- XA-VB-DE-10-DB-1
IN: 8- MISC-AV-DE-CVR-1
IN: 3- AG-DWN-7/16-3
IN: 4- INS-12-DE-P-13
IN: 2- AG-CRPLT-10-1
IN: 4- INS-28-PN-P-3



NOTE:
-POLE SET IN _____, INSP. _____ N/A N/A

-NO TC REQUIRED
-NO PTC REQUIRED
-EAGLE ZONE
-HIGH FIRE AREA TIER 3
HELICOPTER SET REQUIRED
POLE BEING INSTALLED TO BACK UP LONG SPANS

① RM: 243' 2/C #6BC 2.4KV (BIG FALLS)
② IN: 243' 2/C 1/0ATW 2.4KV (BIG FALLS)
③ IN: 243' 3/C 1/0ATW 33KV (BEAR VALLEY)

IN: 5812390E (8)

IN: 1- P-65-H2-CMP-PS-1
IN: 2- INS-33-DE-P-12
IN: 2- INS-33-PN-P-3
IN: 527' CD-ATW-1/0-A-1-3 1/C (TO 2558E)
IN: 2- INS-12-DE-P-14
IN: 2- MISC-D-CC-35-1/0-2
IN: 527' CD-ATW-1/0-A-1-1 1/C (TO 2558E)
IN: 2- MISC-D-CC-17-VAR-1
IN: 4- MISC-AV-DE-CVR-1
IN: 3- AG-DWN-7/16-3
IN: 2- AG-CRPLT-10-1
IN: 1- INS-28-PN-P-3

CREW NOTE:
-CREW TO INSTALL WEDGE COVERS PER DOH DC-535.1 WHEN APPLICABLE

NOTE:
-NO TC REQUIRED
-NO PTC REQUIRED
-EAGLE ZONE
-E TO PTD
-FTR TO SOP
-POLE BEING REPLACED TO MAINTAIN PROPER CLEARANCES
-COMM TO BE MOVED INTO GRADE @ 22'-4"
-BUDDYPOLE@SCE NOTIFIED ON 04/21/20

GPS:
LAT: 34°05'27.73"
LONG: 116°55'39.04"

ELEVATION: 5214 FT

RM: 4859542E POLE (1)

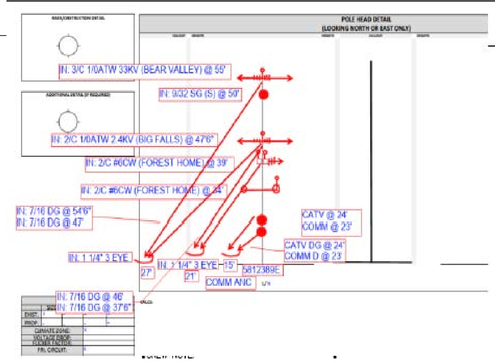
45' CLASS H1 (2016) INSP. N/A
RM: 243' 2/C #6BC 2.4KV (TO 0076S)
1-10' DBLE XARM VB
2-12KV POLY P&I (CU)
4-4KV DE (#6BC)

EX
SET POLE 1' NORTHWEST
IN: 4859542E POLE (2)

~~50' CLASS H3 WF~~
IN: 243' 3/C 1/0ATW 33KV (TO 1020E)
243' 2/C 1/0ATW 2.4KV (TO 1020E)
2-10' DBL DE COMPOSITE XARM W/BRKT
6-33KV NYLON POLY PIN
4-12KV NYLON POLY PIN
6-33KV DE (#4 & 1/0A)
4-4KV DE (#4 & 1/0A)
10-WLDLIFE DE COVER

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

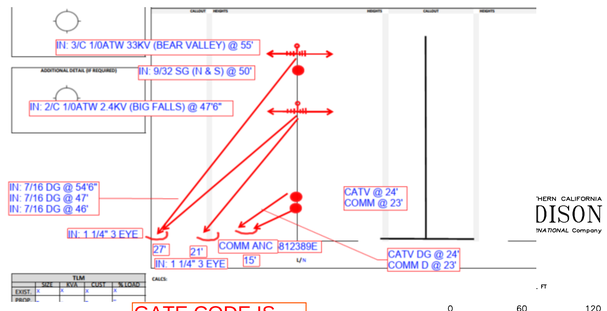
PISTOL GRIP SHOES REQUIRED





NOTE:
-RECONDUCTOR EAST OF 4951020E TO BE DONE ON TD1662779

ASPLUNDH DOES NOT HAVE HAVE THIS TD



GATE CODE IS 6852

RELATED TD'S / DESIGN NO.'S
TD1662779/1244172
TD1551239/1154286

INVENTORY MAP NO.'S
216-25322-2
216-216-2

THOMAS GUIDE MAP NO.'S
CASNBR 611-E2
CASNBR 611-D2
CASNBR 611-C2

FINAL DESIGN
APPROVED FOR CONSTRUCTION

ASPLUNDH MAP REVISIONS IN RED 2-2-2026 JM

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DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

CONTRACT PLANNER: JACOB GIBSON/HTE
PHONE: 909-628-1253

DISTRICT: 31 – REDLANDS		PROJ. MGR. BRANDEN COLEMAN PHONE 714-514-0023		PLANNER LUIS ESTRADA PHONE 909-820-5614		SR NO. 2824510
FOREMAN		TRUCK NO. P/E		INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE ABOVE	GRID NO. DESIGN NO. 1251109
CSD 140 Y ___ N ___	BY-PASS CODE	EXISTING CHANGE TO	TLM CHECKED	%LOAD	J.P.A. NO.	ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. TD1671394		PRODUCT/SAP NO.				PRODUCT/SAP NO.

F	ANN LENOIR	8/28/2020				
P		05/29/20		N.MENDOZA/HTE		
B		05/11/20	RW/HTE/AP	AP/HTE		
TYPE	APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #	

PROPOSED CONSTRUCTION (LOCATION)
PIF#131028 – 2021 GRID RESILIENCY – BIG FALLS 2.4KV
VARIOUS LOCATIONS
FOREST FALLS, CA 92339

Southern California Edison Company

SHEET 2 OF 4
JOB NO. 1251109

Distribution Overhead Construction Standards

CO 207 Dead-Ending — Aluminum and Copper
Scope CO 207.1 Dead-Ending Methods
1.0 Dead-Ending Method — Quadrant Clamp

Figure CO 207–1: Quadrant Clamp



USE IN SPANS OVER 400FT FOR ALL WIRE TYPES AND ANY AREAS OVER 5,000FT

1.1 Application

Use in extra heavy loading areas above 5,000 feet, and specially engineered long span distribution lines — over 400 feet (typically above 336 30/7 Oriole ACSR).

Table CO 207–1: Conductor Range and SAP Numbers

Conductor Range	Conductor Type	SAP
#6 Sol. to 4/0	Cu	10214153*
#4 and 1/0 ACSR	Al	10067489
336.4 kcmil 30/7	Al	10067492
653.9 kcmil	Al	10067495

* Quadrant clamp may also be used in place of rigid automatic dead-ends in high-contamination areas.

2.0 Dead-Ending Method — Preformed Dead-End Grip

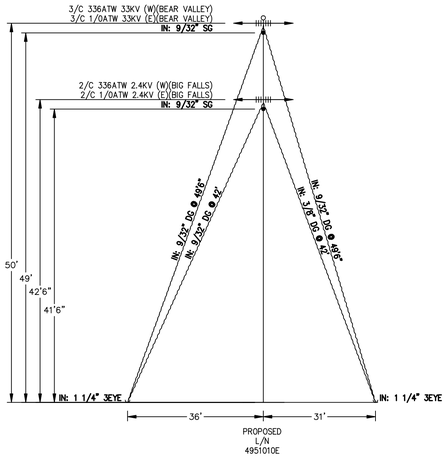
Figure CO 207–2: Preformed Dead-End Grip



2.1 Application

Use where other dead-ending devices are not available for de-energized work.

Approved by:	Dead-Ending — Aluminum and Copper	CO 207
SCH		Sheet: 1 of 5
Effective Date: 01-27-2023	What's Changed?	DOH



CREW NOTE:
-CREW TO INSTALL WEDGE COVERS PER DOH DC-535.1 WHEN APPLICABLE

NOTE:
-NO TC REQUIRED
-NO PTC REQUIRED
-HIGH FIRE TIER 3
-EAGLE ZONE
-POLE BEING REPLACED TO MAINTAIN PROPER SAG CLEARANCES PER G.O.95

GPS:
LAT: 34°05'29.50"
LONG: 116°55'52.48"

ELEVATION: 5227 FT

7 RM: 260396A POLE

50' CLASS 4 (1960) INSP. 2004
RM: 396' 3/C 2/0A 33KV (TO 3135E)
396' 2/C 2/0A 2.4KV (TO 3135E)
1-20' DBLE ARM FOR H-FRAME
1-10' SGL HEAVY TANGENT COMPOSITE XARM W/BRKT
3-33KV P&I CLAMP TOP
1-12KV POLY P&I
6-33KV DE (2/OBC)
2-4KV DE (2/OBC)
1-12KV DE (#4 & 1/0A)
5-9/32" DOWN GUY
4-1"x10' TRPL EYE ANCHOR ROD & PLATE
1-8" SNGL HELIX SCREW ANCHOR
1-9/32" SPAN GUY (TO 3135E)

POLE AND ARMS DONE BY OTHERS

EX
8 SET POLE 1' WEST
IN: 4951010E POLE

~~60' CLASS 2 WF~~
IN: 396' 3/C 1/0ATW 33KV (TO 3135E)
396' 2/C 1/0ATW 2.4KV (TO 3135E)
1-33KV POLY RIDGE PIN
4-OH GUYING TEE
1-3/8" DOWN GUY
3-9/32" DOWN GUY (33KV)
2-9/32" DOWN GUY
1-9/32" SPAN GUY (33KV)(TO 5832E)
1-9/32" SPAN GUY (TO 5832E)
3-1 1/4"x10' TRPL EYE ANCHOR ROD & PLATE
4-WILDLIFE DE COVER
4-"Y" CLEVIS
4-69KV DEADEND INSULATORS
4-336A HEAVY LOADING DEADEND HOT SHOE

INSTALL 4X4 WASHERS BEHIND HOGEYE ON FISHROD SPAN GUY AND BACKSIDE OF POLE AND ON BACKSIDE WHEN USING A GUYING TEE

PISTOL GRIP SHOES REQUIRED

POLE DONE BY OTHERS

P# IN FIELD IS 260396B

CREW NOTE:
-CREW TO INSTALL WEDGE COVERS PER DOH DC-535.1 WHEN APPLICABLE

NOTE:
-NO TC REQUIRED
-NO PTC REQUIRED
-HIGH FIRE TIER 3
-EAGLE ZONE
-HELICOPTER SET REQUIRED
-POLE TO BE INSTALLED TO REMEDIATE LONG SPAN INFRACTION

GPS:
LAT: 34°05'29.44"
LONG: 116°55'52.49"

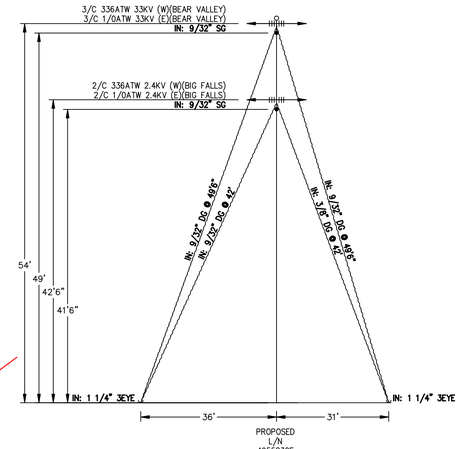
ELEVATION: 5227 FT

SET POLE BETWEEN EXISTING H-FRAME
IN: 4955832E POLE 9

60' CLASS 2 WF
IN: 1-33KV POLY RIDGE PIN
4-OH GUYING TEE
1-3/8" DOWN GUY
3-9/32" DOWN GUY (33KV)
2-9/32" DOWN GUY
1-9/32" SPAN GUY (33KV)(TO 5832E)
1-9/32" SPAN GUY (TO 5832E)
3-1 1/4"x10' TRPL EYE ANCHOR ROD & PLATE
4-WILDLIFE DE COVER
4-"Y" CLEVIS
4-69KV DEADEND INSULATORS
4-336A HEAVY LOADING DEADEND HOT SHOE

PISTOL GRIP SHOES REQUIRED

INSTALL 4X4 WASHERS BEHIND HOGEYE ON FISHROD SPAN GUY AND BACKSIDE OF POLE AND ON BACKSIDE WHEN USING A GUYING TEE



SEE SHEET 4 MATCH LINE "B"

IN: 1440' 3/C 336ATW 33KV (BEAR VALLEY)
RM: 1440' 3/C 2/0A 33KV (BEAR VALLEY)
IN: 1440' 2/C 336ATW 2.4KV (BIG FALLS)
RM: 1440' 2/C #6BC 2.4KV (BIG FALLS)

IN: 396' 3/C 1/0ATW 33KV (BEAR VALLEY)
RM: 396' 3/C 2/0A 33KV (BEAR VALLEY)
IN: 396' 2/C 1/0ATW 2.4KV (BIG FALLS)
RM: 396' 2/C #6BC 2.4KV (BIG FALLS)

10'
1'
10'
1'

MATCH LINE "A" SEE SHEET 2

CREW NOTE:
-CREW TO INSTALL WEDGE COVERS PER DOH DC-535.1 WHEN APPLICABLE

NOTE:
-NO TC REQUIRED
-NO PTC REQUIRED
-HIGH FIRE TIER 3
-EAGLE ZONE
-HELICOPTER SET REQUIRED
-POLE BEING REPLACED TO MAINTAIN PROPER SAG CLEARANCES PER G.O. 95

GPS:
LAT: 34°05'29.38"
LONG: 116°55'52.52"

ELEVATION: 5227 FT

10 RM: 260396B POLE

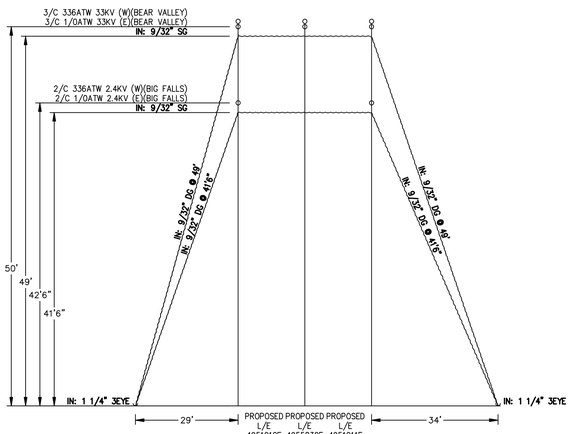
50' CLASS 4 (1960) INSP. 2004
RM: 1-10' SGL HEAVY TANGENT COMPOSITE XARM W/BRKT
1-12KV POLY P&I
2-4KV DE (2/OBC)
5-9/32" DOWN GUY
4-1"x10' TRPL EYE ANCHOR ROD & PLATE
1-8" SNGL HELIX SCREW ANCHOR

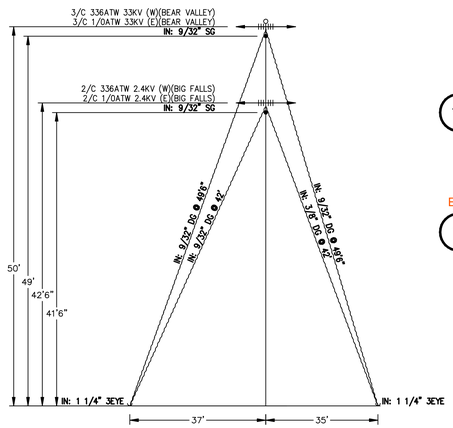
EX
11 SET POLE 1' WEST
IN: 4951011E POLE

POLE AND ARMS DONE BY OTHERS

~~60' CLASS 2 WF~~
IN: 1-33KV POLY RIDGE PIN
4-OH GUYING TEE
1-3/8" DOWN GUY
3-9/32" DOWN GUY (33KV)
2-9/32" DOWN GUY
1-9/32" SPAN GUY (33KV)(TO 5832E)
1-9/32" SPAN GUY (TO 5832E)
3-1 1/4"x10' TRPL EYE ANCHOR ROD & PLATE
4-WILDLIFE DE COVER
4-"Y" CLEVIS
4-69KV DEADEND INSULATORS
4-336A HEAVY LOADING DEADEND HOT SHOE

PISTOL GRIP SHOES REQUIRED





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

N

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An EDISON INTERNATIONAL Company

SCALE: 1 IN = 60 FT

0 60 120

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www.digalert.org/contact
For Underground Locating
Two Working Days Before You Dig

Drfc Rev. 05/28/20

RELATED TD'S / DESIGN NO.'S
TD1662779/1244172
TD1551239/1154286

INVENTORY MAP NO.'S
216-25322-2
216-2316-2

THOMAS GUIDE MAP NO.'S
CASNBR 611-E2
CASNBR 611-D2
CASNBR 611-C2

FINAL DESIGN
APPROVED FOR CONSTRUCTION

ASPLUNDH MAP REVISIONS IN RED 2-2-2026 JM

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

CONTRACT PLANNER: JACOB GIBSON/HTE
PHONE: 909-628-1253

DISTRICT: 31 – REDLANDS	PROJ. MGR. BRANDEN COLEMAN PHONE 714-514-0023		PLANNER LUIS ESTRADA PHONE 909-820-5614		SR NO. 2824510
FOREMAN	TRUCK NO.	P/E	INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE ABOVE	GRID NO. / DESIGN NO. 1251109
CSD 140 Y ___ N ___	BY-PASS CODE	EXISTING ___ CHANGE TO ___	TLM CHECKED ___ %LOAD	J.P.A. NO.	ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. TD1671394		PRODUCT/SAP NO.		PRODUCT/SAP NO.	

TYPE	APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #
F	ANN LENOIR	5/28/2020			
P		05/29/20		N.MENDOZA/HTE	
B		05/11/20	RW/HTE/AP	AP/HTE	

PROPOSED CONSTRUCTION (LOCATION)
PIF#131028 – 2021 GRID RESILIENCY – BIG FALLS 2.4KV
VARIOUS LOCATIONS
FOREST FALLS, CA 92339

Southern California Edison Company

SHEET 3 OF 4

JOB NO. 1251109

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

Distribution Overhead Construction Standards

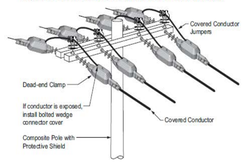
CC 180 Transitioning to Bare Wire

Scope CC 180.1 Transitioning from Covered Conductor to Bare Wire

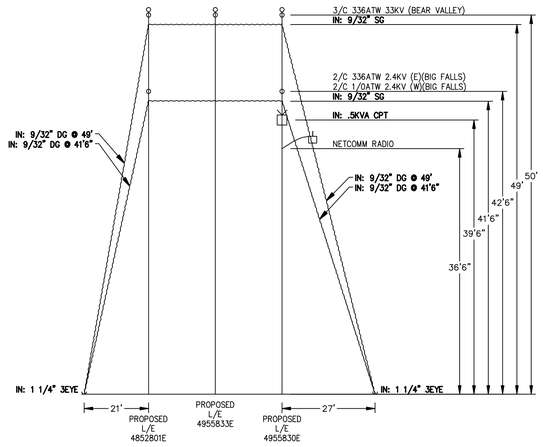
Covered Conductors must be dead-ended at a dead-end pole when transitioning to bare wire. Splices are not to be used when transitioning from a covered conductor system to bare wire system.

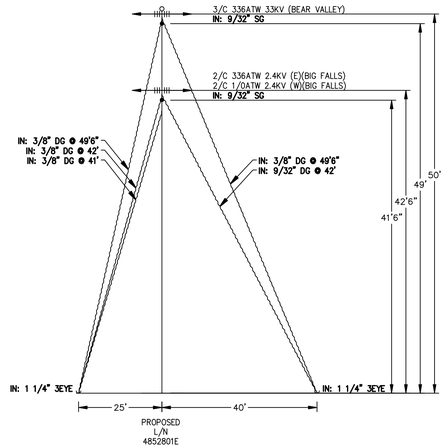
If overhead equipment is located at a pole transition from bare wire to covered conductor, the equipment is considered part of the covered conductor system, therefore, surge arrester requirements for covered conductor systems apply (see CC 130).

Figure CC 180–1: Covered Conductor to Bare Wire Transition



Approved by: KH | Transitioning to Bare Wire | CC 180 | Sheet 1of1 | Effective Date 04-26-2019 | What's Changed? Updated Figure CC 180–1 to show dead-end covering on bare wire side of transition pole. | DOH





GUYED DIFFERENCE IN TENSION CALC (2801E)

A. 531' SPAN 2/C 336ATW HEAVY	= 8,300 LBS
B. 1440' SPAN 2/C 1/0ATW HEAVY	= 2,830 LBS
TOTAL (A–B)	= 5,470 LBS
2–3/8" DG @ 29° ANGLE CAN HOLD	= 6,508 LBS

CREW NOTE:
–CREW TO INSTALL WEDGE COVERS PER DOH DC–535.1 WHEN APPLICABLE

NOTE:
–NO TC REQUIRED
–NO PTC REQUIRED
–HIGH FIRE TIER 3
–EAGLE ZONE
–HELICOPTER SET REQUIRED
–STATION REFLECTS MATERIAL ORDERED ON TD1551239
–POLE BEING REPLACED TO MAINTAIN PROPER CLEARANCES PER G.O. 95

GPS:
LAT: 34°05'30.78"
LONG: 116°56'09.50"

ELEVATION: 5182 FT

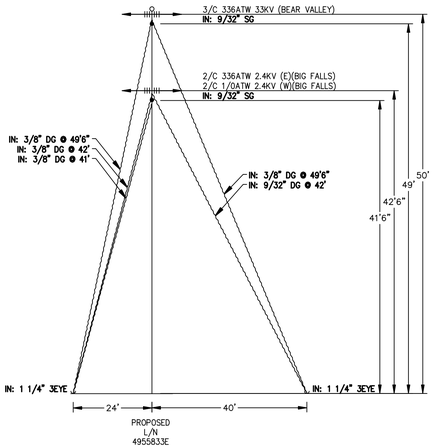
12 RM: 4852801E POLE

50' CLASS 4 (1960) INSP. 2017
RM: 1440' 3/C 2/0A 33KV (TO 0396A)
1440' 2/C 2/0A 2.4KV (TO 0396A)
4–20' SGL DE COMP XARM
3–33KV POLY P&I
4–12KV NYLON POLY PIN
3–33KV DE (336A)
3–33KV DE (1/0A)
4–12KV DE (#4 & 1/0A)
3–3/8" DOWN GUY (33KV)
3–3/8" DOWN GUY (2.4KV)
5–WILDLIFE DE COVER
SET POLE 1' EAST

EX 13 IN: 4852801E POLE

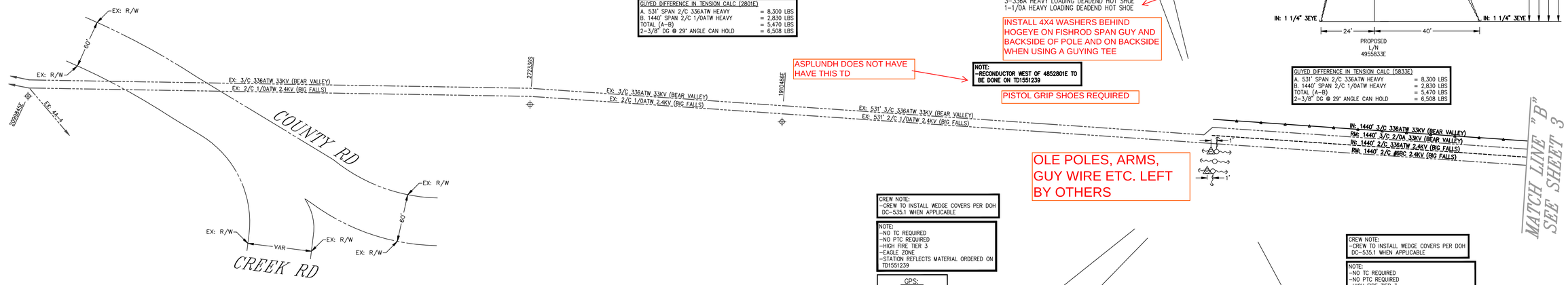
~~60' CLASS 2 WF~~
IN: 1440' 3/C 1/0ATW 33KV (TO 1010E)
1440' 2/C 1/0ATW 2.4KV (TO 1010E)
1–33KV POLY RIDGE PIN
4–OH GUYING TEE
2–3/8" DOWN GUY (33KV)
2–3/8" DOWN GUY
2–9/32" DOWN GUY (33KV)
2–9/32" DOWN GUY
1–9/32" SPAN GUY (33KV)(TO 5833E)
1–9/32" SPAN GUY (TO 5833E)
3–1 1/4"x10' TRPL EYE ANCHOR ROD & PLATE
4–WILDLIFE DE COVER
4–"Y" CLEVIS
4–69KV DEADEND INSULATORS
3–336A HEAVY LOADING DEADEND HOT SHOE
1–1/0A HEAVY LOADING DEADEND HOT SHOE

INSTALL 4X4 WASHERS BEHIND HOGEYE ON FISHROD SPAN GUY AND BACKSIDE OF POLE AND ON BACKSIDE WHEN USING A GUYING TEE



GUYED DIFFERENCE IN TENSION CALC (5833E)

A. 531' SPAN 2/C 336ATW HEAVY	= 8,300 LBS
B. 1440' SPAN 2/C 1/0ATW HEAVY	= 2,830 LBS
TOTAL (A–B)	= 5,470 LBS
2–3/8" DG @ 29° ANGLE CAN HOLD	= 6,508 LBS



ASPLUNDH DOES NOT HAVE HAVE THIS TD

NOTE:
–RECONDUCTOR WEST OF 4852801E TO BE DONE ON TD1551239

PISTOL GRIP SHOES REQUIRED

OLE POLES, ARMS, GUY WIRE ETC. LEFT BY OTHERS

MATCH LINE "B" SEE SHEET 3

CREW NOTE:
–CREW TO INSTALL WEDGE COVERS PER DOH DC–535.1 WHEN APPLICABLE

NOTE:
–NO TC REQUIRED
–NO PTC REQUIRED
–HIGH FIRE TIER 3
–EAGLE ZONE
–STATION REFLECTS MATERIAL ORDERED ON TD1551239

GPS:
LAT: 34°05'30.66"
LONG: 116°56'09.55"

ELEVATION: 5175 FT

15 RM: 260395S POLE

50' CLASS 4 (1960) INSP. 2004
RM: 3–3/8" DOWN GUY (33KV)
3–3/8" DOWN GUY (2.4KV)
.5KVA 12/16KV 120/240V OIL CPT
SET POLE 1' EAST

EX 16 IN: 4955830E POLE

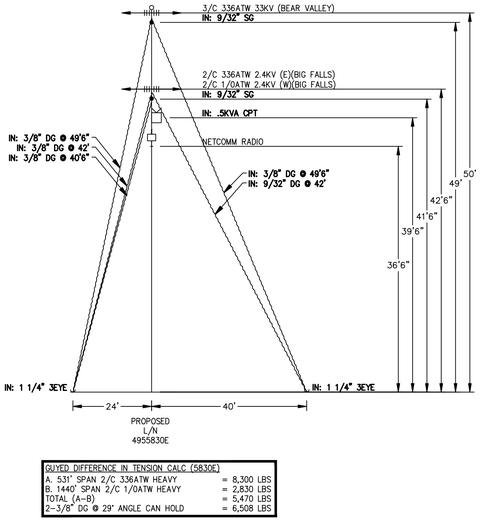
~~60' CLASS 2 WF~~
IN: 1–33KV POLY RIDGE PIN
4–OH GUYING TEE
2–3/8" DOWN GUY (33KV)
2–3/8" DOWN GUY
2–9/32" DOWN GUY (33KV)
2–9/32" DOWN GUY
1–9/32" SPAN GUY (33KV)(TO 5833E)
1–9/32" SPAN GUY (TO 5833E)
3–1 1/4"x10' TRPL EYE ANCHOR ROD & PLATE
4–WILDLIFE DE COVER
1–CLD AVIAN COVER
~~1–0.5KVA 12/16KV 120/240V DRY CPT~~
2–12A CLD FUSE
4–"Y" CLEVIS
4–69KV DEADEND INSULATORS
3–336A HEAVY LOADING DEADEND HOT SHOE
1–1/0A HEAVY LOADING DEADEND HOT SHOE

POLE,ARMS AND EQUIPMENT DONE BY OTHERS

PISTOL GRIP SHOES REQUIRED

INSTALL 4X4 WASHERS BEHIND HOGEYE ON FISHROD SPAN GUY AND BACKSIDE OF POLE AND ON BACKSIDE WHEN USING A GUYING TEE

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



GUYED DIFFERENCE IN TENSION CALC (5830E)

A. 531' SPAN 2/C 336ATW HEAVY	= 8,300 LBS
B. 1440' SPAN 2/C 1/0ATW HEAVY	= 2,830 LBS
TOTAL (A–B)	= 5,470 LBS
2–3/8" DG @ 29° ANGLE CAN HOLD	= 6,508 LBS

RELATED TD'S / DESIGN NO.'S
TD1662779/1244172
TD1551239/1154286

INVENTORY MAP NO.'S
216–25322–2
216–2316–2

THOMAS GUIDE MAP NO.'S
CASNBR 611–E2
CASNBR 611–D2
CASNBR 611–C2

		APPROVED	DRAWN	CHECKED
	TION			

CREW NOTE:
–CREW TO INSTALL WEDGE COVERS PER DOH DC–535.1 WHEN APPLICABLE

NOTE:
–NO TC REQUIRED
–NO PTC REQUIRED
–HIGH FIRE TIER 3
–EAGLE ZONE
–HELICOPTER SET REQUIRED
–POLE TO BE INSTALLED TO REMEDIATE LONG SPAN INFRACTION

GPS:
LAT: 34°05'30.72"
LONG: 116°56'09.53"

ELEVATION: 5180 FT

SET POLE BETWEEN EXISTING H–FRAME

IN: 4955833E POLE 14

~~60' CLASS 2 WF~~
IN: 1–33KV POLY RIDGE PIN
4–OH GUYING TEE
2–3/8" DOWN GUY (33KV)
2–3/8" DOWN GUY
2–9/32" DOWN GUY (33KV)
2–9/32" DOWN GUY
1–9/32" SPAN GUY (33KV)(TO 2801E)
1–9/32" SPAN GUY (TO 2801E)
3–1 1/4"x10' TRPL EYE ANCHOR ROD & PLATE
4–WILDLIFE DE COVER
4–"Y" CLEVIS
4–69KV DEADEND INSULATORS
3–336A HEAVY LOADING DEADEND HOT SHOE
1–1/0A HEAVY LOADING DEADEND HOT SHOE

POLE AND ARMS DONE BY OTHERS

PISTOL GRIP SHOES REQUIRED

INSTALL 4X4 WASHERS BEHIND HOGEYE ON FISHROD SPAN GUY AND BACKSIDE OF POLE AND ON BACKSIDE WHEN USING A GUYING TEE

Distribution Overhead Construction Standards

CO 207 Dead-Ending — Aluminum and Copper

Scope CO 207.1 Dead-Ending Methods

1.0 Dead-Ending Method — Quadrant Clamp

Figure CO 207–1: Quadrant Clamp



USE IN SPANS OVER 400FT FOR ALL WIRE TYPES AND ANY AREAS OVER 5,000FT

1.1 Application

Use in extra heavy loading areas above 5,000 feet, and specially engineered long span distribution lines — over 400 feet (typically above 336 30/7 Oriole ACSR).

Table CO 207–1: Conductor Range and SAP Numbers

Conductor Range	Conductor Type	SAP
#6 Sol. to 4/0	Cu	10214153*
#4 and 1/0 ACSR	Al	10067489
336.4 kcmil 30/7	Al	10067492
653.9 kcmil	Al	10067495

* Quadrant clamp may also be used in place of rigid automatic dead-ends in high-contamination areas.

2.0 Dead-Ending Method — Preformed Dead-End Grip

Figure CO 207–2: Preformed Dead-End Grip



2.1 Application

Use where other dead-ending devices are not available for de-energized work.

Approved by: SCH | Dead-Ending — Aluminum and Copper | CO 207 | Sheet 1of5 | Effective Date 01-27-2023 | What's Changed? | DOH

FINAL DESIGN

APPROVED FOR CONSTRUCTION

ASPLUNDH MAP REVISIONS IN RED 2-2-2026 JM

SOUTHERN CALIFORNIA EDISON An EDISON INTERNATIONAL Company

SCALE: 1 IN = 60 FT

0 60 120

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CONTRACT PLANNER: JACOB GIBSON/HTE
PHONE: 909–628–1253

DISTRICT: 31 – REDLANDS	PROJ. MGR. PHONE: BRANDEN COLEMAN 714–514–0023	PLANNER PHONE: LUIS ESTRADA 909–820–5614		SR NO.	2824510
FOREMAN	TRUCK NO.	P/E	INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE ABOVE	GRID NO.	DESIGN NO. 1251109
CSD 140 Y___ N___	BY–PASS CODE	EXISTING ___ CHANGE TO ___	TLM CHECKED ___ %LOAD	J.P.A. NO.		ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. TD1671304		PRODUCT/SAP NO.		PRODUCT/SAP NO.		

F	ANN LENOIR	8/28/2020				
P		05/29/20		N.MENDOZA/HTE		
B		05/11/20	RW/HTE/AP	AP/HTE		
TYPE	APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #	

Southern California Edison Company

PROPOSED CONSTRUCTION (LOCATION)
PIF#131028 – 2021 GRID RESILIENCY – BIG FALLS 2.4KV
VARIOUS LOCATIONS
FOREST FALLS, CA 92339

SHEET 4 OF 4 | JOB NO. 1251109