

SHEET NOTES:

[02] STRUCTURE 22-6:

EXISTING: TRANSMISSION H-POLE STRUCTURE (2) 85/H5; DOUBLE ALLEY ARM DISTRIBUTION FRAMING.

[03] POLE 2332 (173L2 IN FIELD):

EXISTING: (53', 2x) #2 ACSR. UG SVC.

REMOVE: (2x) #2 ACSR, 40/5, VA6, SVG10-15, SM52-3, SM2-11, SUM5.

INSTALL: (2x) #2 ACSR, 4/0 RIBB, 45/3, VA6, (2) SE1-3 (27' L.), SE1-3 (7'), SF-4P (27' L.), SF-4P (6' BISECTOR), F1-4P-TRPL (20' L.), SVG10-25, SUM5, SUME290S3, SM52-3, SM2-11. SET POLE ON NORTH SIDE OF EXISTING. BEGIN REPLACEMENT OF #2 ACSR SOUTH. SAG PER CHARTS PROVIDED; MAINTAIN EXISTING TENSIONS NORTH. INSTALL NEUTRAL SOUTH AT 6' BELOW PHASE. INSTALL NEUTRAL NORTH 6" HIGHER AND AT SMALL ANGLE TO PROVIDE CLEARANCE TO GUYS. ATTACH NORTH GUYS AT 12" BELOW PHASE AND NEUTRAL. ATTACH BISECTOR GUY 6" BELOW NEUTRAL SOUTH. CONSTRUCT RISER TO 29'-6" (AT 18" BELOW NEUTRAL).

[04] PED 2332A:

EXISTING: UG SVC.

INSTALL: (10') 4/0 RIBB, (10') SUM5012H, (10') SHUR2-3, SUK5, SUM1-SM.

INSTALL PEDESTAL 4' NORTH OR 4' SOUTH OF BISECTOR ANCHOR; RE-LOCATE UG SVC INTO PEDESTAL.

[05] POLE 2028 (173L1 IN FIELD):

EXISTING: (2) OH SVC.

REMOVE: (274', 2x) #2 ACSR, (~150' 2x) #4/#2 TPXI, 40/5, VA2, SE1-4, SF-4P, SVG9-10, EYE-BOLT, (2) SK16, SM52-3, SM2-11.

INSTALL: (274', 2x) #2 ACSR, (~150' 2x) #2 TPX, 50/2, VA2, (2) SE1-3 (32' L.), SF-4P (32' L.), F1-4P-TRPL (25' L.), SVG9-25, J10, (3) SK16, SM52-3, SM2-11, (40') SR1-10. CLEAR AS REQ'D FOR GUYS/ANCHORS. INSTALL NEUT. 6' BELOW POLE TOP. INSTALL J10 16" BELOW NEUTRAL. REPLACE SVCS. TO WEATHERHEAD AND LIFT POLE.

[06] POLE 1525:

INSTALL: (301', 2x) #2 ACSR, 45/3, VA7F, VA5, (2) VM5-5, (1) E1-5C (30' L.), SF-4P (30' L.), F1-4P-TRPL (23' L.), SM52-3, SM2-11. INSTALL VA5 ON BACKSIDE OF VA7. INSTALL NEUTRAL ON FIELD SIDE.

[07] POLE 1425 (173 IN FIELD):

REMOVE: (339', 2x) #2 ACSR, (3x) 1/0 ACSR E/W, #2 ACSR E/W, 40/3, VC1P, VA5-2, SVM5-9B, SE1-3, SF-4P, SVG39-5, SM2-11. INSTALL: (40', 2x, REDUCED TENSION) #2 ACSR, 50/2, VC1-1R, VA5-2, SVM5-9B, SE1-3, SF-4P (10' L.), F1-4P-TRPL, SM2-11, SM52-3. SET POLE 7' DEEP. INSTALL E/W NEUT 8' BELOW XARM AND TAP NEUT 6" HIGHER. ATTACH GUY AT 2' BELOW TAP PHASE. FUSE TAP AT 20T.

[08] POLE 0928 (172, __2 IN FIELD)

EXISTING: (~381', 3x, WEST) 1/0 ACSR, (~381', WEST) #2 ACSR, (2x, NORTH) #2 ACSR. SF-4P, (2) UG SVC. POLE IS AN ACS DEADEND & DOUBLE RISER POLE.

REMOVE: (3x, 328') 1/0 ACSR, (328') #2 ACSR, 40/4, VC1AP, VA5-2, SVM5-9B, SE1-3, SVG39-15 (DE-ENERGIZED), SUM5, SM2-11, SM52-3.

INSTALL: (3x) 1/0 ACSR, #2 ACSR, (15', 2x, NORTH) #2 ACSR, (2) SM45A, 50/2, VC8F, VA7F, (1) VM5-5, SVM5-9B, E1-5C (27.5' L.), (2) E1-5C (30' L.), E1-5 (25' L.), SEM-142, (2) SF-4P (30' L.), F1-4P-TRPL (24' L.), SVG39-25, SUM5, SUM290S3, SM2-11, SM52-3. SPLICE #2 ACSR NORTH 10' FROM POLE. INSTALL VA7F 2' BELOW VC8F. INSTALL E/W NEUT 6' BELOW VA7F XARM. LEAVE XFMR DE-ENERGIZED. FUSE TAP AT 20T. COORDINATE CHANGE-OUT OF POLE WITH ACS.

[09] PED 0928A

EXISTING: (2) UG SVC.

INSTALL: (10') 4/0 RIBB, (10') SUM5012H, (10') SHUR2-3, SUK5, SUM1-SM. INSTALL PEDESTAL 7' EAST AND 1' NORTH OF POLE. RE-LOCATE UG SVCS INTO PED.

[10] POLE 1327

INSTALL: (135' W., 202' E. 3x) 1/0 ACSR, (135' W., 202' E.) #2 ACSR, 45/3, VC2R, SE1-3 (25' L.), SF-4P (25' BISECTOR), F1-4P-TRPL (18' BISECTOR), SM52-3, (185') SR1-30, (15') SR1-10. INSTALL NEUTRAL 6' BELOW XARM. CLEAR FOR NEW ALIGNMENT, AND AS REQ'D FOR GUYS/ANCHORS.

[11] RMB (1__ IN FIELD):

EXISTING: 45/3, METER, METER BASE, MTR BASE RISER, M2-11.

REMOVE: (328', 3x) 1/0 ACSR, (328') #2 ACSR, VC1P, VA5-2, SVM5-9B, SE1-3, SF-4P, SVG39-25, J6, SK16, SM52-3, (RELOCATE TAP PRIMARIES AND OH SERVICES TO POLE 1920). TOP POLE ABOVE METER BASE RISER.

INSTALL: K10.

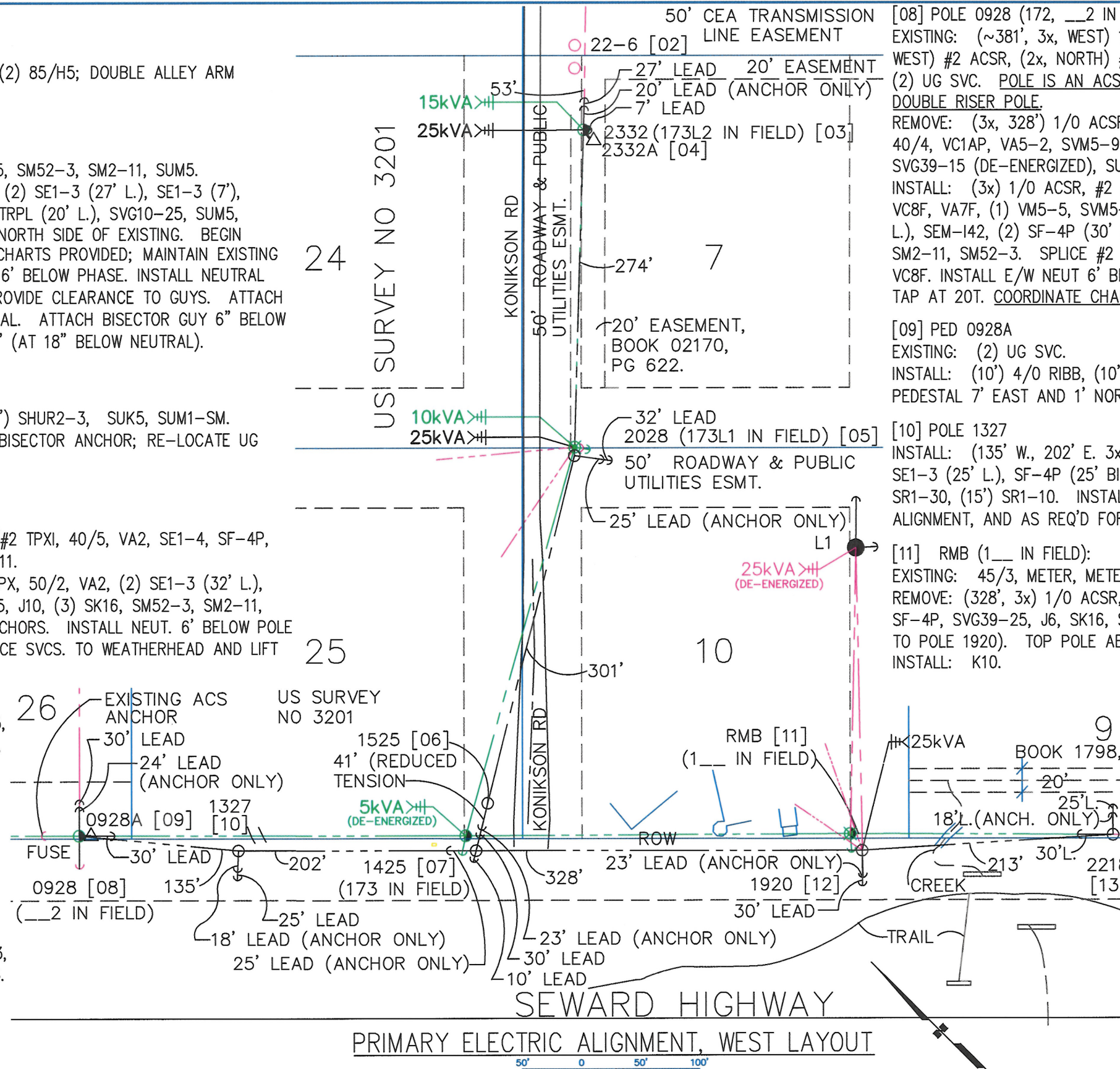
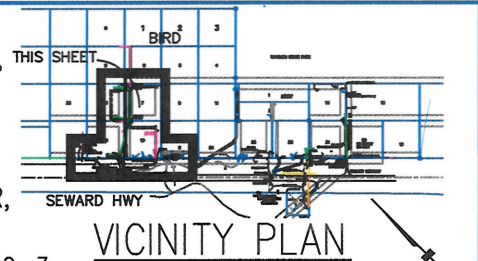
[12] POLE 1920

INSTALL: (328', 3x) 1/0 ACSR, (328') #2 ACSR, (20', 2x, NORTH) #2 ACSR, (2) SM45A, (20') #2 TPX, (90', 2x) #2 TPX, 55/2, VC2R, VA5-2, SVM5-9B, E1-5 (30' L.) SF-4P (30' L.), F1-4P-TRPL (23' L.), SVG39-25, (2) J10, (3) SK16, SM2-11, SM52-3, (130') SR1-30. SET POLE 7.5' DEEP. INSTALL E/W NEUT 8' BELOW XARM AND TAP NEUT 6" HIGHER. SPLICE PRIMARY ~13' FROM POLE. REPLACE SVCS TO WEATHERHEAD AND LIFT POLE. CLEAR IN SPANS TO 1425 & L1 AS REQ'D. FUSE TAP AT 20T.

[13] POLE 2218:

EXISTING: (3x) 1/0 ACSR, #2 ACSR.

REMOVE: (223', 3x) 1/0 ACSR, (223') #2 ACSR, INSTALL: (213', 3x) 1/0 ACSR, (213') #2 ACSR, 45/3, VC8F, E1-5C (30' L.), E1-5 (25'), SF-4P (30' L.), SF-4P (25' L.), F1-4P-TRPL (18' L.), SM52-3, SM2-11, (20') SR1-10. CLEAR AS REQ'D FOR GUYS/ANCHORS.



PROJECT: BIRD POINT FIBER TIES

DESIGNER/PROJECT ENGINEER: EEE

W.O. #: E2414297

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	GE/3-5-25	DT	

OWNER



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DRAWING NAME:

BIRD POINT FIBER TIE IN

PRIMARY ELECTRICAL ALIGNMENT
WEST LAYOUT

FILE NAME:

SHEET NO.:

ES101

SHEET 2 OF 17

SHEET NOTES:

- [14] POLE (R)175 (17_ IN FIELD):
REMOVE: 40/5, VC1P, SM52-3, SM2-11.

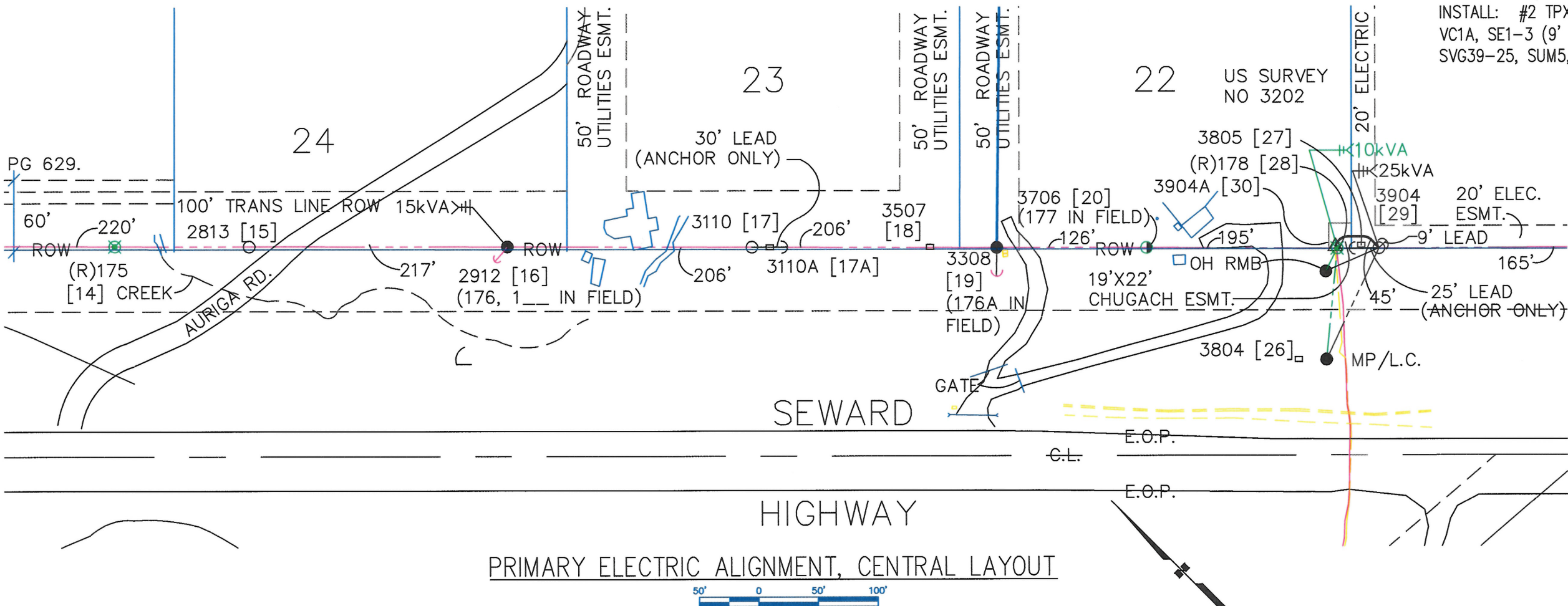
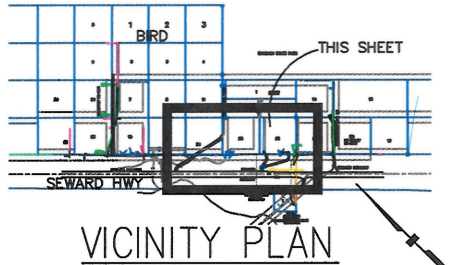
[15] POLE 2813:
EXISTING: (220', 3x) 1/0 ACSR, (220') #2 ACSR.
INSTALL: 45/3, VC1AR.

[16] POLE 2912 (176, 1__ IN FIELD):
EXISTING: (217', 3x) 1/0 ACSR, (217') #2 ACSR, 1/0 TPX, 45/3, SE1-3 (16.5' L.), SF-4P, SVG39-15, J6, SM2-11, M52-3.
REMOVE: VC1AP
INSTALL: VC1AR, SM52-3. INSTALL REPLACEMENT NEUTRAL OFFSET BRACKET AT EXISTING HEIGHT (SAME HOLE). SHORTEN SECONDARY DRIP TO ABOVE GUY ATTACHMENT BOLT (OR CONFIRM IT IS ABOVE THE GUY BOLT).

[17] POLE 3110:
EXISTING: (206', 3x) 1/0 ACSR, (206') #2 ACSR.
INSTALL: 50/2, VC8F, F1-4P-TRPL (30' L.), SM2-11, SM52-3.
- [19] POLE 3308 (176A IN FIELD):
EXISTING: (206', 3x) 1/0 ACSR, (206') (206') #2 ACSR, (2x) #2 ACSR, 60/2, SF-4P, M52-3.
REMOVE: VC1, VA5-2, SVM5-9B, SE1-3.
INSTALL: VC1, VA5-2, SVM5-9B, (2) SE1-3 (24' L.), SM52-3.
INSTALL E/W NEUTRAL AT 45'-7" (AT EXISTING HEIGHT - RE-UTILIZE HOLE).
INSTALL TAP NEUTRAL 7' BELOW TAP PHASE (AT 2'-10" BELOW E/W NEUTRAL).
ATTACH GUYS 9" BELOW TAP PHASE AND TAP NEUTRAL.
FUSE AT 20T.

[20] POLE 3706 (177 IN FIELD):
EXISTING: (128', 3x) 1/0 ACSR, (128') #2 ACSR.
REMOVE: 40/5, VC1AP, SM52-3.
INSTALL: 40/2, VC1-1 (8' XARMS), SM52-3.
SET POLE 8' DEEP.
INSTALL NEUTRAL AT 4'-6" BELOW CROSSARM (SEE DETAIL).
- [28] POLE (R)178 (1_8 IN FIELD):
POLE HAD AN ACS DOUBLE DEADENDED WITH A 2" RISER.
EXISTING: UG-SVC, SUM5, (2) SUM5A.
UG SVC AND TALL SPARE RISER HAD CABLE TAGS.
THIRD RISER WAS A SPARE WITH ONLY ITS 10' RSC SECTION, AND IT HAD A CABLE TAG.
REMOVE: 40/4, (22') #2 TPX, (93') #2 TPX, VC1P, SVG39-15, EYE-BOLT, (3) SK16, SM52-3, SM2-11, SUM5, (2) SUM5A.
CAREFULLY RETIRE SECONDARY RISER AND SPARE RISERS.

[29] POLE 3904:
EXISTING: (195', 3x) 1/0 ACSR, (195') #2 ACSR.
INSTALL: #2 TPX (49'), #2 TPX (102'), 4/0 RIBB, 45/3, VC1A, SE1-3 (9' L.), SF4-P (9' L.), F1-4P-TRPL (25' L.), SVG39-25, SUM5, SUME290S3, J10, SK16, SM2-11, SM52-3.



- [30] PEDESTAL 3904A:
EXISTING: UG SVC.
INSTALL: (45') 4/0 RIBB, SUK5, SUM1-SM, (45') SUM5012H, (45') SUR2-3, BELL-END/PLUG.
INSTALL PEDESTAL OVER/AROUND EXISTING CONDUITS.
EXTEND CONDUITS, PROVIDE BELL ENDS, AND PLUGS. ROUTE CONDUIT 10' NORTH OF PROPERTY AT 15' WEST OF POLE TO MINIMIZE CONFLICT WITH NEW FIBER OPTIC HANDHOLE 3805.

PROJECT: **BIRD POINT FIBER TIES**

DESIGNER/PROJECT ENGINEER: **EEE**

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	GE/3-5-25	<i>DT</i>	

W.O. #: **E2414297**

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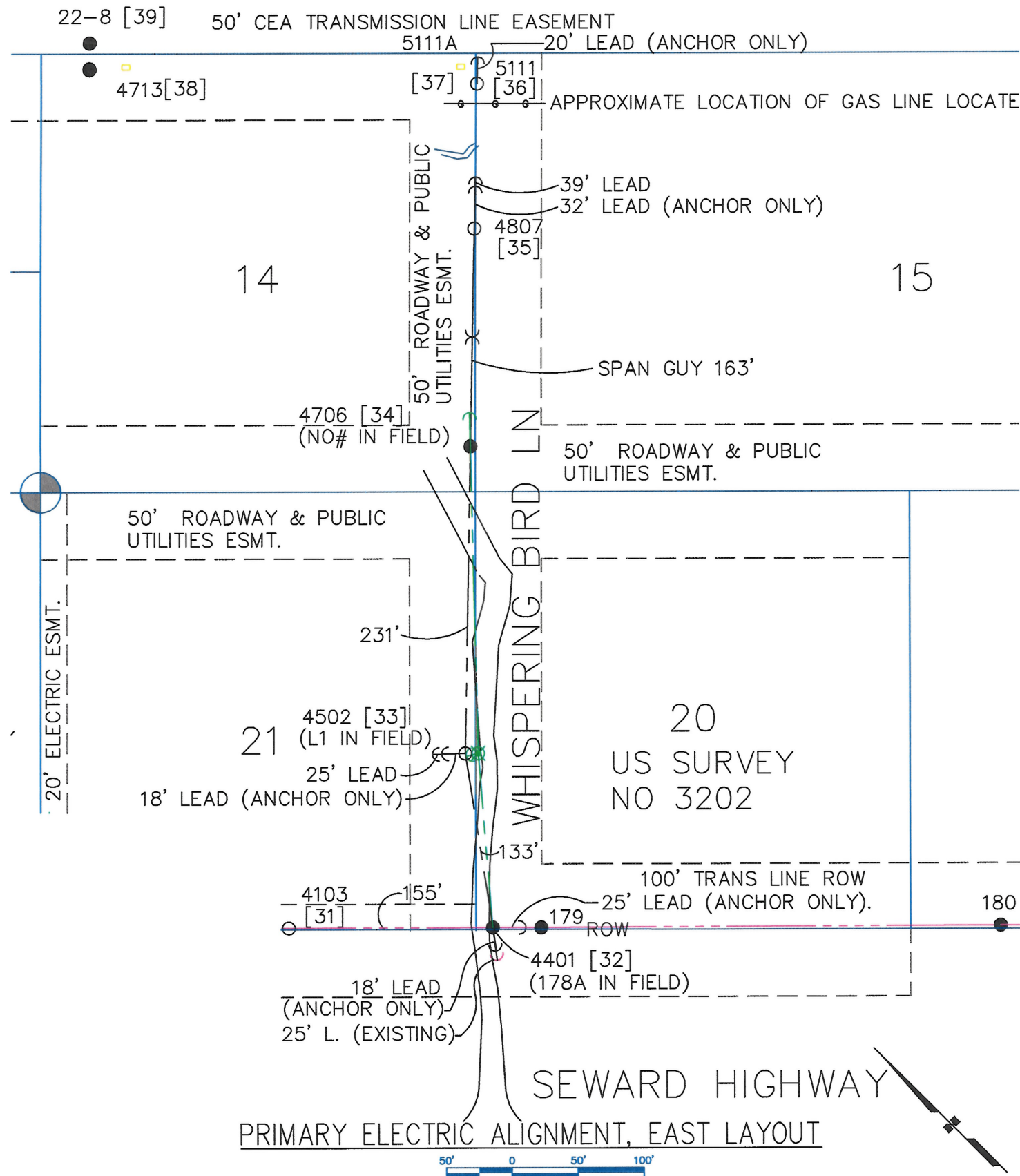
DRAWING NAME: **BIRD POINT FIBER TIE IN**

PRIMARY ELECTRIC ALIGNMENT

CENTRAL LAYOUT

FILE NAME: **ES102**

SHEET NO.: **3** of **17**



SHEET NOTES:

[31] POLE 4103:
EXISTING: (165', 3x) 1/0 ACSR, (165') #2 ACSR.
INSTALL: 45/3, VC1AR, SM2-11, SM52-3.

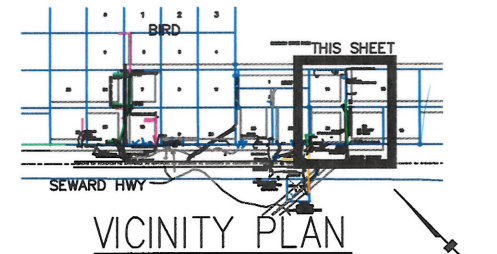
[32] POLE 4401 (178A IN FIELD):
EXISTING: (155', 3x) 1/0 ACSR, (155') #2 ACSR, 40/5, SF-4P (25' L.), M52-3.
REMOVE: (2) #2 ACSR, VC1, VA5-2, SE1-3 (25' L.), SVM5-9B.
INSTALL: VC8F, VA7F, E1-5 (25' L.), F1-4P-TRPL (18' L.), F1-4P-TRPL (25' L.), SVM5-9B, SM2-11, SM52-3. INSTALL VA7F 3' BELOW VC8F XARM. INSTALL VC8F NEUTRAL 2' BELOW VA7F'S XARM. FUSE TAP AT 20T.

[33] POLE 4502 (L1 IN FIELD):
REMOVE: (131', 2x) #2 ACSR, 40/5, VA1X, SE1-3, SF-4P, SM52-3.
INSTALL: (133', 2x) #2 ACSR, 45/3, VA2, SE1-3 (25' L.), SF-4P (25' L.), F1-4P-TRPL (18' L.), SM2-11, SM52-3, (75') SR1-30, (20') SR1-10.
ATTACH GUY AT 18" BELOW POLE TOP.
INSTALL NEUTRAL AT 6' BELOW POLE TOP.
CLEAR IN SPAN TO POLE 4401 FOR NEW PRIMARY ALIGNMENT. CLEAR FOR GUY AND ANCHORS.

[34] POLE 4706 (NO# IN FIELD):
EXISTING: 40/5, UG SVC, SVG10-15, SUM52.5 (U-GUARD RISER), SM2-11.
REMOVE: (231', 2x) #2 ACSR, VA5, SE1-3, SF-4P.
INSTALL: (231' 2x), VA5, SM52-3, (75') SR1-30.
INSTALL NEUTRAL AT 4' BELOW PHASE (UTILIZE EXISTING HOLES FOR PHASE AND NEUTRAL BOLTS).
SHORTEN SECONDARY DRIP LOOPS TO AT, OR ABOVE, TOP OF RISER.
ATTACH SPAN GUY TO POLE 4807 AT HEIGHT OF RETIRED DOWN GUY.
CLEAR IN SPAN TO POLE 4502 FOR NEW PRIMARY ALIGNMENT. CLEAR IN SPAN TO POLE 4502 FOR NEW PRIMARY ALIGNMENT.

[35] POLE 4807:
INSTALL: 60/2, SE2-3 (163' L.), SE1-3 (39' L.), SF4C (39' L.), F1-4P-TRPL (32' L.), (3) SM31A, SM2-11, SM52-3, SUM1-SM, (~163') SR1-30, (~20') SR1-10.
INSTALL SNOW MARKER AT F1-4P-TRPL ANCHOR ROD EYE.
PROVIDE NSF FILL AT POLE AND ANCHORS.
INSTALL SPAN GUY AND DOWN GUY BACK-TO-BACK AT 2' FROM POLE TOP.
CLEAR IN SPAN TO POLE 4706 FOR FUTURE PRIMARY INSTALLATION.
CLEAR WITH CARE TO REDUCE IMPACT TO LARGE SPRUCE NW OF NEW POLE.

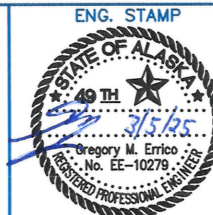
[36] POLE 5111:
INSTALL: 35/5, F1-4P-TRPL (20' L.), (2) SM31A, SM52-3, SUM1-SM, (85') SR1-20.
SET POLE 9.5' DEEP. INSTALL SNOW MARKER AT ANCHOR ROD EYE.
PROVIDE NSF FILL AT POLE AND ANCHOR.
CLEAR FOR FO INSTALLATION.



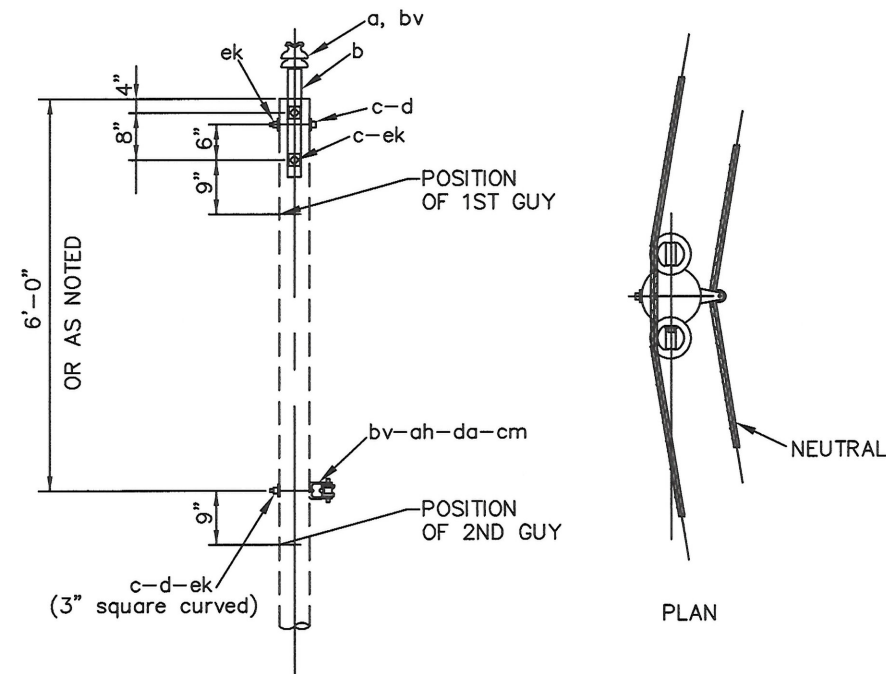
PROJECT: BIRD POINT FIBER TIES				
DESIGNER/PROJECT ENGINEER: EEE W.O. #: E2414297				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE
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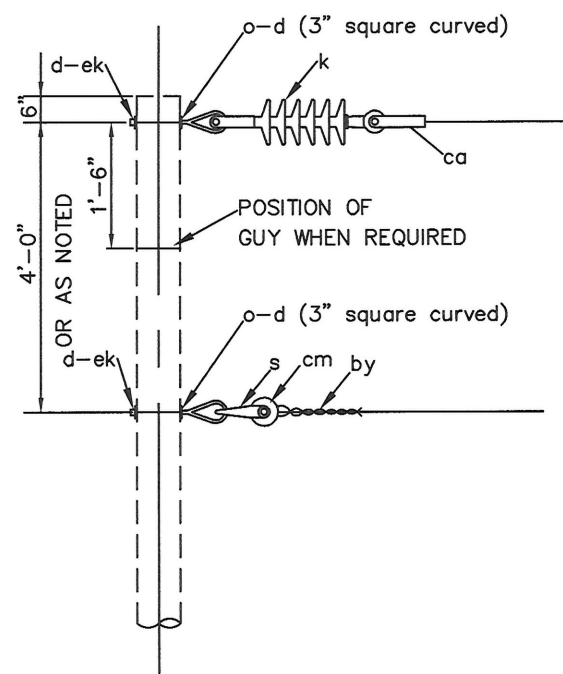
DRAWING NAME:		BIRD POINT FIBER TIE IN
		PRIMARY ELECTRIC ALIGNMENT
		EAST LAYOUT
FILE NAME:		
SHEET NO.:	ES103	
		SHEET



- NOTE:
1. THIS ASSEMBLY USES ARMOR RODS FOR #2 ACSR SPARATE.
 2. THIS ASSEMBLY USES 3" SQUARE CURVED WASHER (3 REQUIRED).

MATERIAL LIST		
NO.	Qty.	DESCRIPTION
a	2	INSULATOR, PIN TYPE, VISE TOP, 35KV, 1-3/8" THREAD, ANSI 55-7, PREFORMED LINE PRODUCTS# IP-35-VTN2 OR HENDRIX# HPI-35VT-02
cm	1	INSULATOR, SPOOL, 3", 1-3/4" NECK, ANSI 53-2 PREFORMED LINE PRODUCTS PART# IP-53-2
bv	1	ARMOR ROD, DOUBLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0314
bv	1	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0114
ah	1	TIE, WRAPLOCK, SPOOL, PREFORMED LINE PRODUCTS PART# SPL-1354-P
b	2	PIN, POLE TOP, 20", 1-3/8" THREAD, CHANCE PART #SA2195
cs	2	BRACKET, POLE TOP, (SPACER BRACKET), CHANCE PART #2157
dl	4	PIPE SPACER, 3/4" DIA. X 1-1/2" LONG, CHANCE PART #2237
da	1	CLEVIS, RIGID, MACLEAN #J1300, OR EQUAL
c	4	BOLT, MACHINE, 5/8" x REQ'D LENGTH
d	2	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE
d	1	WASHER, 3" SQUARE, CURVED, WITH 11/16" HOLE
ek	-	LOCKNUTS, AS REQUIRED

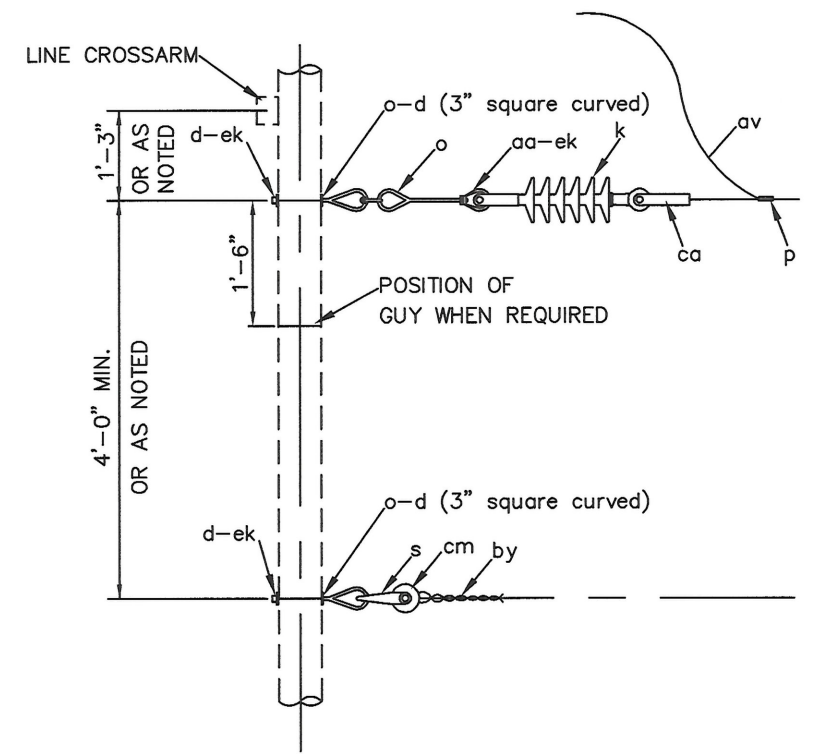
1 VA2
SCALE: NTS



- NOTE:
1. THIS ASSEMBLY: USES 3" SQUARE CURVED WASHERS (4 REQUIRED).

MATERIAL LIST		
Item	NO.	DESCRIPTION
ca	1	DEADEND, AUTOMATIC, SIDE-OPENING, #4 TO 2/0, HUBBELL PART# GDW420
k	1	INSULATOR, EPOXILATOR, 25 kV, 15,000 lb
by	1	GRIP, DEADEND, #2 ACSR SPARATE, PART# DG4542
cm	1	INSULATOR, SPOOL, 3", PLP #IP-53-2, OR EQ.
s	1	CLEVIS, SWINGING, MACLEAN #J0322, OR EQUAL
o	2	BOLT, EYE, OVAL, 5/8" x REQUIRED LENGTH
d	4	WASHER, 3" SQUARE, CURVED (11/16" HOLE)
ek	-	LOCKNUTS, AS REQUIRED

2 VA5
SCALE: NTS



- NOTE:
1. THIS ASSEMBLY: USES 3" SQUARE CURVED WASHERS (4 REQUIRED).

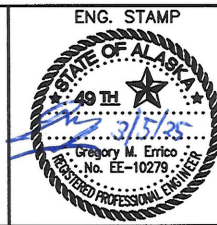
MATERIAL LIST		
Item	NO.	DESCRIPTION
ca	1	DEADEND, AUTOMATIC, SIDE-OPENING, #4 TO 2/0, HUBBELL PART# GDW420
k	1	INSULATOR, EPOXILATOR, 25 kV, 15,000 lb
by	1	GRIP, DEADEND, #2 ACSR SPARATE, PART# DG4542
cm	1	INSULATOR, SPOOL, 3", PLP #IP-53-2, OR EQ.
s	1	CLEVIS, SWINGING, MACLEAN #J0322, OR EQUAL
bo	1	SHACKLE, ANCHOR
aa	1	NUT, EYE, OVAL, 5/8"
o	3	BOLT, EYE, OVAL, 5/8" x REQUIRED LENGTH
d	4	WASHER, 3" SQUARE, CURVED (11/16" HOLE)
ek	-	LOCKNUTS, AS REQUIRED
av	-	JUMPERS, #2 CU, HIGH MOLECULAR WEIGHT POLYETHYLENE COVERING, AS REQ'D
p	-	CONNECTORS, H-TAP, AS REQUIRED

3 VA5-2
SCALE: NTS

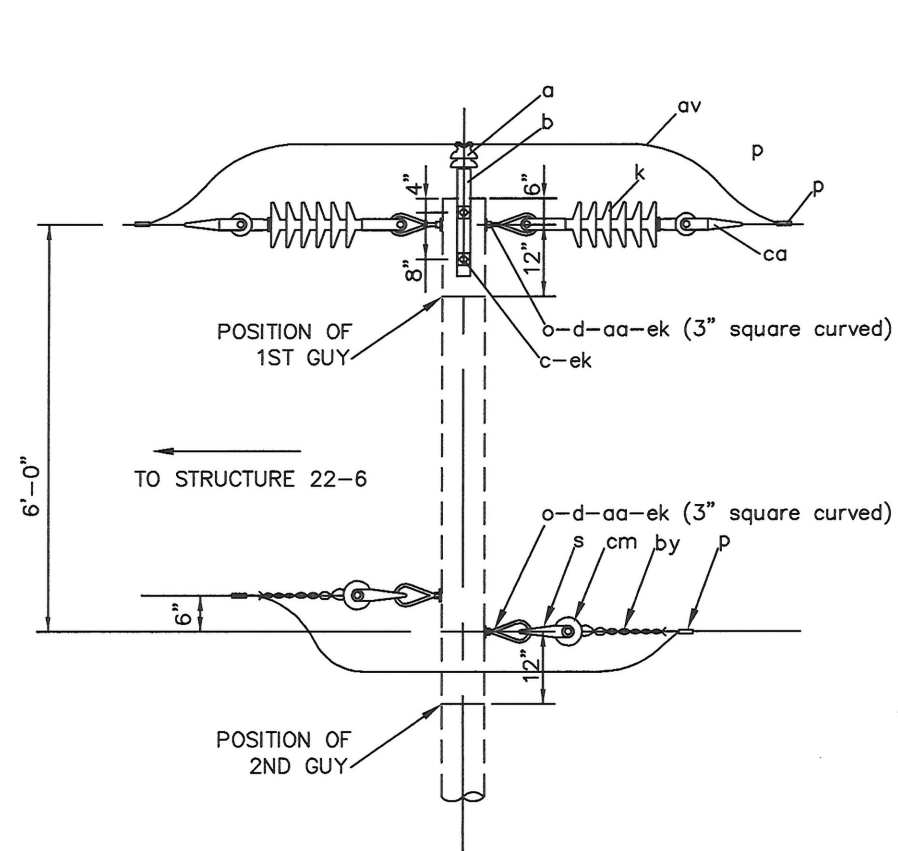
PROJECT: BIRD POINT FIBER TIES				
DESIGNER/PROJECT ENGINEER: EEE W.O. #: E2414297				
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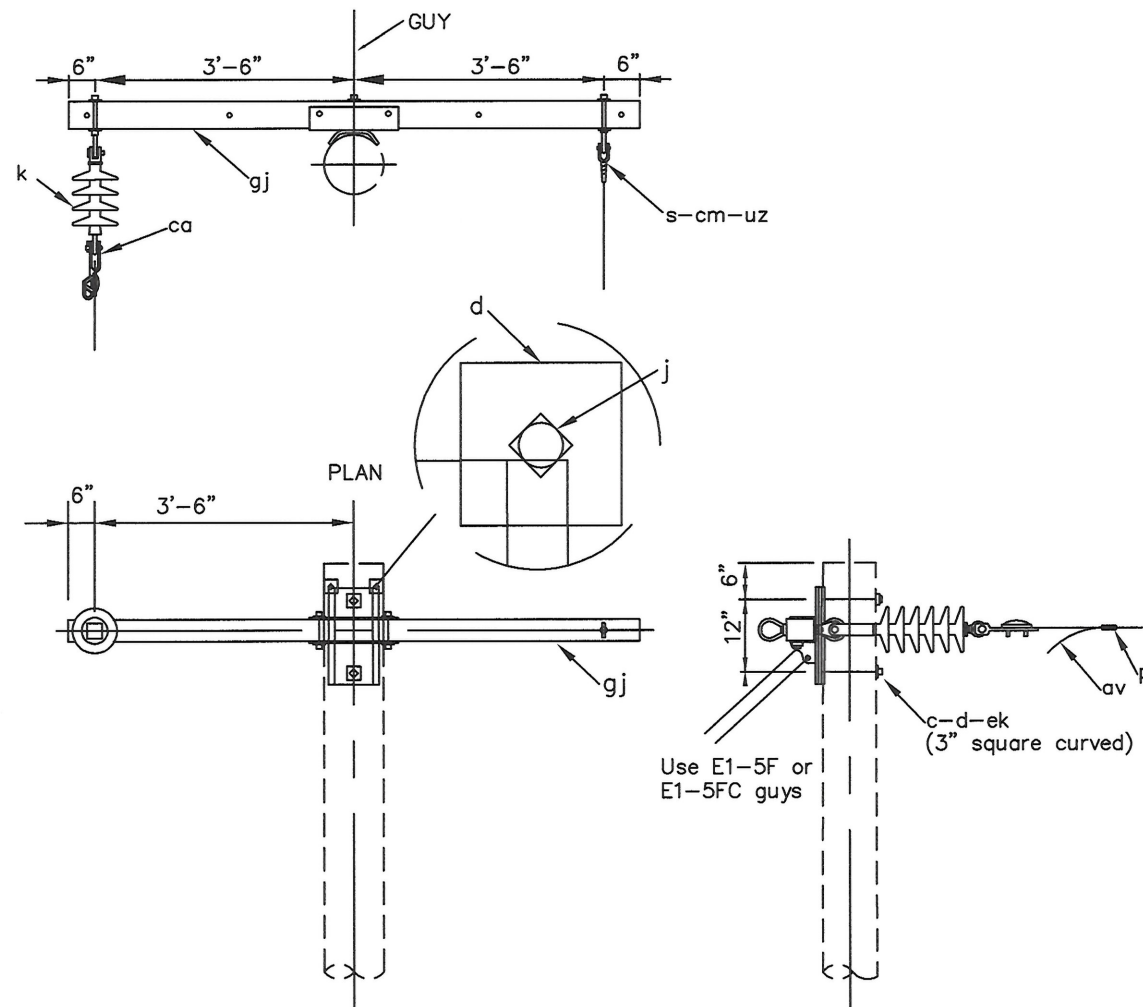
DRAWING NAME: BIRD POINT FIBER TIE IN	
ELECTRIC DISTRIBUTION DETAILS	
FILE NAME:	ES301
SHEET NO.:	8 of 17



NOTES:
1. FRAME NEUTRAL EYE-BOLT TO STRUCTURE 22-6 AND POLE 1425 AT ~20° FROM IN-LINE, TO PROVIDE CLEARANCE TO PRIMARY DOWN GUY.

MATERIAL LIST		
NO.	Qty.	DESCRIPTION
a	1	INSULATOR, PIN TYPE, VISE TOP, 35kV, 1-3/8" THREAD, ANSI 55-7, PREFORMED LINE PRODUCTS# IP-35-VTN2 OR HENDRIX# HPI-35VT-02
k	2	INSULATOR, EPOXILATOR, 25 kV, 15,000 lb
cm	2	INSULATOR, SPOOL, 3", 1-3/4" NECK, ANSI 53-2 PREFORMED LINE PRODUCTS PART# IP-53-2
ca	2	DEADEND, AUTOMATIC, SIDE-OPENING, #4 TO 2/0, HUBBELL PART# GDW420
by	2	GRIP, DEADEND, #2 ACSR SPARATE, PART# DG4542, NO SUB
b	1	PIN, POLE TOP, 20", 1-3/8" THREAD, CHANCE PART #SA2195
s	2	CLEVIS, SWINGING, MACLEAN #J0322, OR EQUAL
o	3	BOLT, EYE, OVAL, 5/8" x REQUIRED LENGTH
aa	1	NUT, EYE, OVAL, 5/8"
d	6	WASHER, 3" SQUARE, CURVED (11/16" HOLE)
c	2	BOLT, MACHINE, 5/8" x REQ'D LENGTH
d	2	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE
ek	-	LOCKNUTS, AS REQUIRED
av	-	JUMPERS, #2 CU, HIGH MOLECULAR WEIGHT POLYETHYLENE COVERING, AS REQ'D
p	-	CONNECTORS, H-TAP, AS REQUIRED

1 VA6
SCALE: NTS



NOTES:
1. THIS ASSEMBLY USES: 3" SQUARE CURVED WASHERS (2 REQUIRED).
2. WHERE UTILIZED AS BUCK ARM, INSTALL PER DRAWING AND STAKING NOTES.

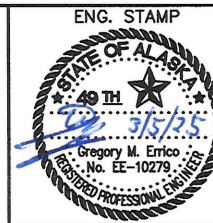
MATERIAL LIST		
Item	NO.	DESCRIPTION
gj	1	CROSSARM ASSEMBLY, PUPU FIBERGLASS, #DA200096E2B7X2
c	2	BOLT, MACHINE, 5/8" x REQUIRED LENGTH
d	2	WASHER, 3" SQUARE, CURVED (11/16" HOLE)
k	1	INSULATOR, EPOXILATOR, SUSPENSION, 25 kV, 15,000 lb
ca	1	DEADEND, AUTOMATIC, SIDE-OPENING, #4 TO 2/0, HUBBELL PART# GDW420
cm	1	INSULATOR, SPOOL, 3", PREFORMED LINE PRODUCTS #IP-53-2, OR EQ.
s	1	CLEVIS, SWINGING, MACLEAN #J0322, OR EQUAL
uz	1	GRIP, DEADEND, #2 ACSR SPARATE, PREFORMED PART# DG4542
ek	-	LOCKNUTS, AS REQUIRED
av	-	JUMPERS, #2 CU, HIGH MOLECULAR WEIGHT POLYETHYLENE COVERING, AS REQ'D
p	-	CONNECTORS, H-TAP, AS REQUIRED
j	2	SCREW, LAG, 1/2" x 4-1/2"
d	2	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE

2 VA7F
SCALE: NTS

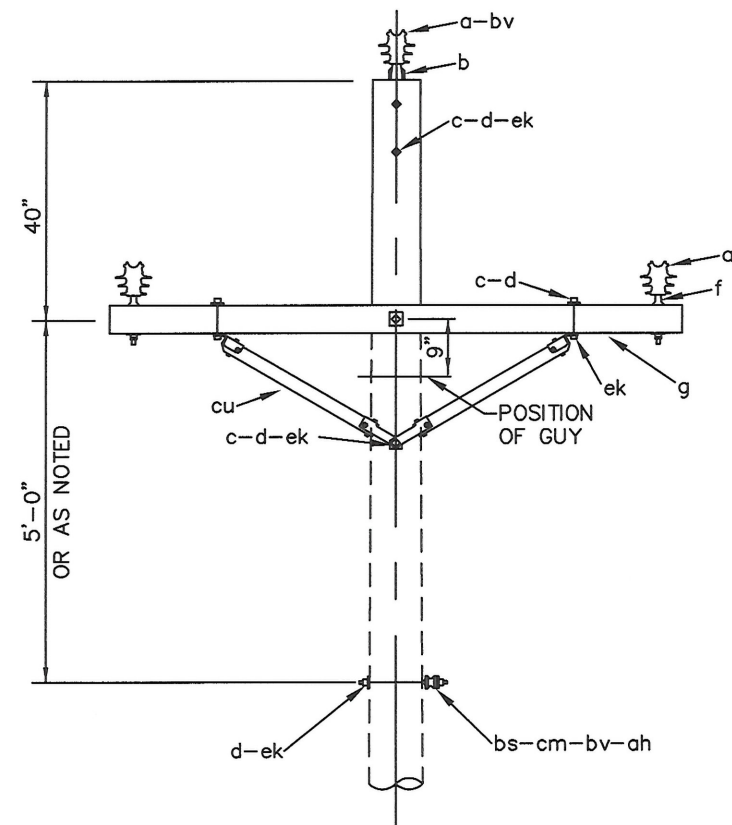
PROJECT: BIRD POINT FIBER TIES				
DESIGNER/PROJECT ENGINEER: EEE W.O. #: E2414297				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	GE/3-5-25	<i>DT</i>	



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DRAWING NAME: BIRD POINT FIBER TIE IN	
ELECTRIC DISTRIBUTION DETAILS	
FILE NAME:	
SHEET NO.: ES302	SHEET 9 OF 17

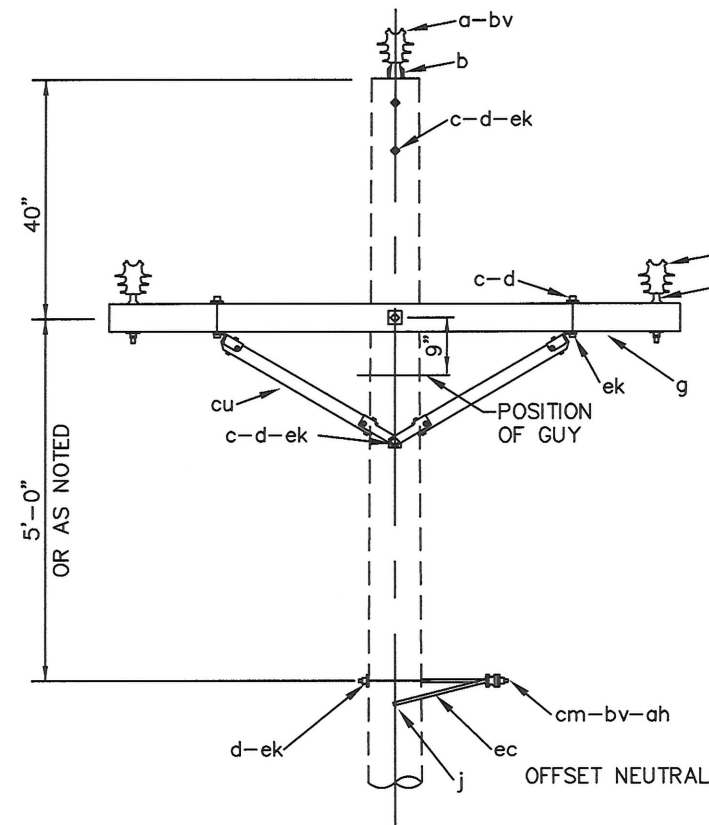


NOTE:

NOTE:
1. THIS ASSEMBLY USES ARMOR RODS FOR 1/0 ACSR RAVEN
AND #2 ACSR SPARATE.

MATERIAL LIST		
NO.	Qty.	DESCRIPTION
a	3	INSULATOR, PIN TYPE, VISE TOP, 35kV, 1-3/8" THREAD, ANSI 55-7, PREFORMED# IP-35-VTN2 OR HENDRIX# HPI-35VT-02
cm	1	INSULATOR, SPOOL, 3", 1-3/4" NECK, ANSI 53-2 PREFORMED LINE PRODUCTS PART# IP-53-2
bv	3	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0118 (1/0 ACSR)
bv	1	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0114 (#2 ACSR)
ah	1	TIE, WRAPLOCK, SPOOL, PREFORMED LINE PRODUCTS PART# SPL-1354-P
b	1	PIN, POLE TOP, 20", 1-3/8" THREAD, CHANCE PART #SA2195
f	2	PIN, CROSSARM, STEEL, 7", 1-3/8" THREAD, CHANCE PART #4717P
g	1	CROSSARM, 3-5/8" x 4-5/8" X 8'-0"
cu	2	BRACE, WOOD, 60" SPAN, 18" DROP, HUGHES BROTHERS PART #2045-CC30-9-11
bs	1	BOLT, SINGLE UPSET
c	4	BOLT, MACHINE, 5/8" x REQ'D LENGTH
d	6	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE
c	2	BOLT, MACHINE, 1/2" x 6"
d	2	WASHER, 1-3/8" ROUND WITH 9/16" HOLE
ek	-	LOCKNUTS, AS REQUIRED

1 VC1
SCALE: NTS

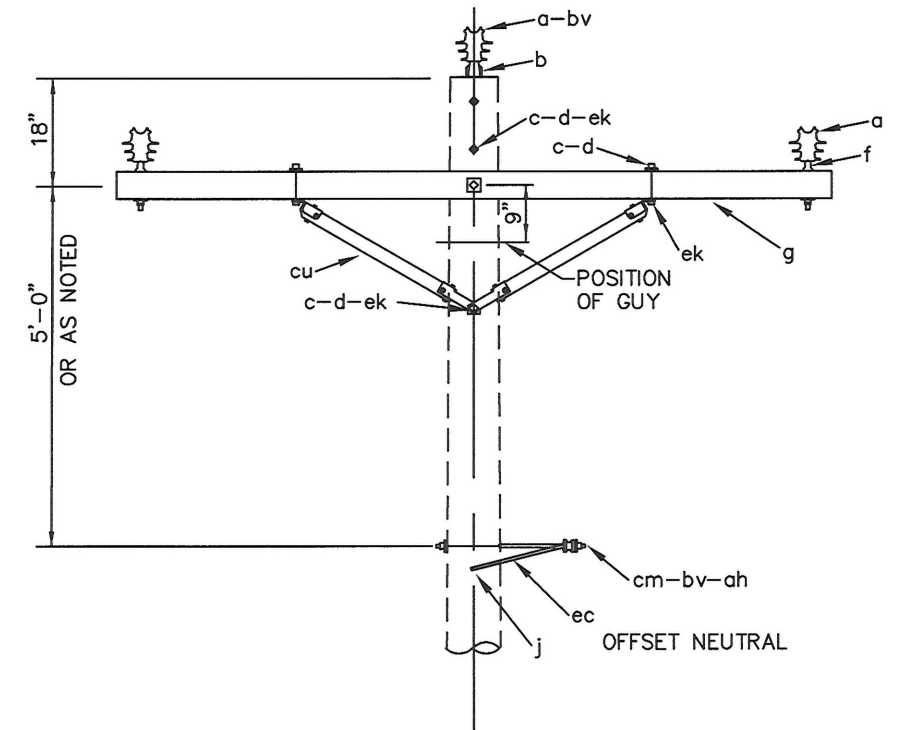


NOTE:

1. THIS ASSEMBLY USES ARMOR RODS FOR 1/0 ACSR RAVEN AND #2 ACSR SPARATE.

MATERIAL LIST		
NO.	Qty.	DESCRIPTION
a	3	INSULATOR, PIN TYPE, VISE TOP, 35kV, 1-3/8" THREAD, ANSI 55-7. PREFORMED# IP-35-VTN2 OR HENDRIX# HPI-35VT-02
cm	1	INSULATOR, SPOOL, 3", 1-3/4" NECK, ANSI 53-2 PREFORMED LINE PRODUCTS PART# IP-53-2
bv	3	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0118 (1/0 ACSR)
bv	1	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0114 (#2 ACSR)
ah	1	TIE, WRAPLOCK, SPOOL, PREFORMED LINE PRODUCTS PART# SPL-1354-P
b	1	PIN, POLE TOP, 20", 1-3/8" THREAD, CHANCE PART #SA2195
f	2	PIN, CROSSARM, STEEL, 7", 1-3/8" THREAD, CHANCE PART #4717P
g	1	CROSSARM, 3-5/8" x 4-5/8" X 8'-0"
cu	2	BRACE, WOOD, 60" SPAN, 18" DROP, HUGHES BROTHERS PART #2045-CC30-9-11
ec	1	BRACKET, OFFSET NEUTRAL, CHANCE PART #C2060004
c	4	BOLT, MACHINE, 5/8" x REQ'D LENGTH
d	6	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE
c	2	BOLT, MACHINE, 1/2" x 6"
d	2	WASHER, 1-3/8" ROUND WITH 9/16" HOLE
j	2	SCREW, LAG, 1/2" x 4-1/2"
ek	-	LOCKNUTS, AS REQUIRED

2 VC1A
SCALE: NTS



NOTE:

1. THIS ASSEMBLY USES ARMOR RODS FOR 1/0 ACSR RAVEN AND #2 ACSR SPARATE.

MATERIAL LIST		
NO.	Qty.	DESCRIPTION
a	3	INSULATOR, PIN TYPE, VISE TOP, 35kv, 1-3/8" THREAD, ANSI 55-7, PREFORMED# IP-35-VTN2 OR HENDRIX# HPI-35VT-02
cm	1	INSULATOR, SPOOL, 3", 1-3/4" NECK, ANSI 53-2 PREFORMED LINE PRODUCTS PART# IP-53-2
bv	3	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0118 (1/0 ACSR)
bv	1	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0114 (#2 ACSR)
ah	1	TIE, WRAPLOCK, SPOOL, PREFORMED LINE PRODUCTS PART# SPL-1354-P
b	1	PIN, POLE TOP, 20", 1-3/8" THREAD, CHANCE PART #SA2195
f	2	PIN, CROSSARM, STEEL, 7", 1-3/8" THREAD, CHANCE PART #4717P
g	1	CROSSARM, 3-5/8" x 4-5/8" X 10'-0"
cu	2	BRACE, WOOD, 60" SPAN, 18" DROP, HUGHES BROTHERS PART #2045-CC30-9-11
ec	1	BACKET, OFFSET NEUTRAL, CHANCE PART #C2060004
c	4	BOLT, MACHINE, 5/8" x REQ'D LENGTH
d	6	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE
c	2	BOLT, MACHINE, 1/2" x 6"
d	2	WASHER, 1-3/8" ROUND WITH 9/16" HOLE
j	2	SCREW, LAG, 1/2" x 4-1/2"
ek	-	LOCKNUTS, AS REQUIRED

3 **VC1AR**
SCALE: NTS

PROJECT: BIRD POINT FIBER TIES				
DESIGNER/PROJECT ENGINEER: EEF			W.O. #: E2414297	
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	GE/3-5-25	<i>DT</i>	

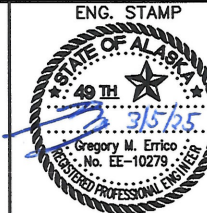
OWNER



CONSULTANT



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DRAWING NAME:

BIRD POINT FIBER TIE IN

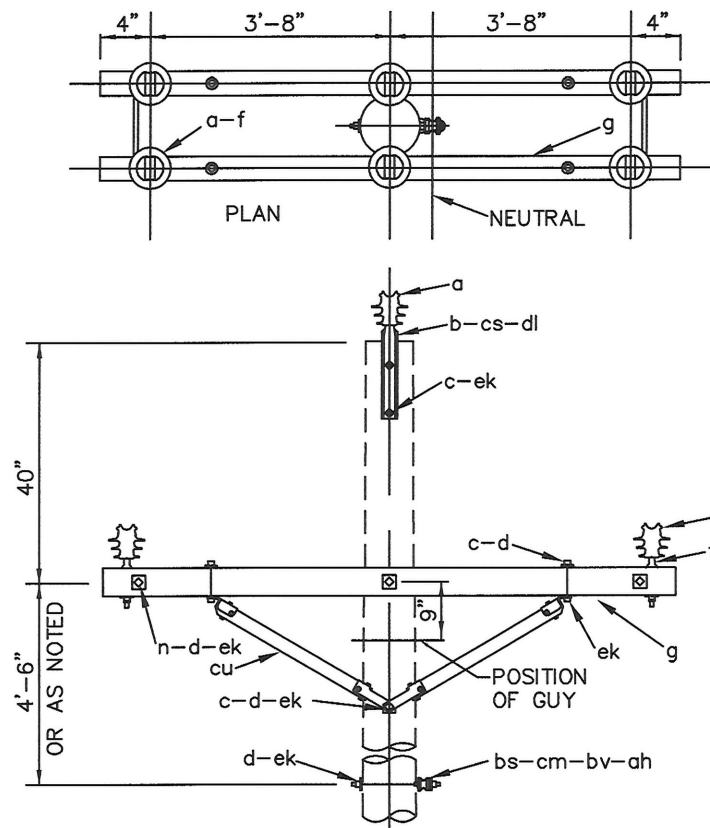
ELECTRIC DISTRIBUTION DETAILS

FILE NAME:

SHEET NO.:

ES303

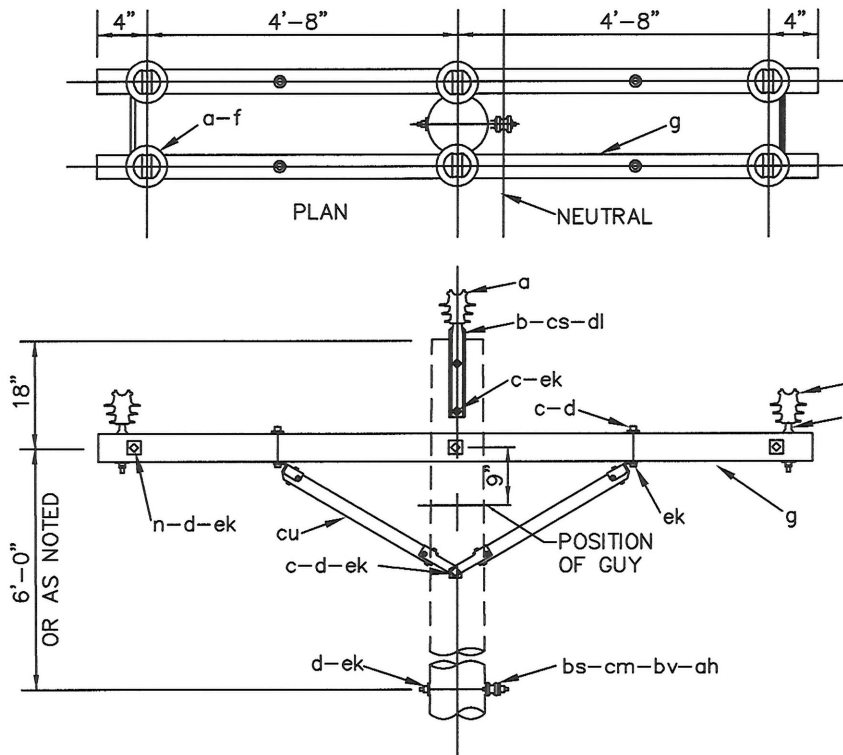
SHEET 10 OF 17



NOTE:
1. THIS ASSEMBLY USES ARMOR RODS FOR 1/0 ACSR RAVEN AND #2 ACSR SPARATE.

MATERIAL LIST		
NO.	Qty.	DESCRIPTION
a	6	INSULATOR, PIN TYPE, VISE TOP, 35kV, 1-3/8" THREAD, ANSI 55-7, PREFORMED# IP-35-VTN2 OR HENDRIX# HPI-35VT-02
cm	1	INSULATOR, SPOOL, 3", 1-3/4" NECK, ANSI 53-2 PREFORMED LINE PRODUCTS PART# IP-53-2
bv	3	ARMOR ROD, DOUBLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0318 (1/0 ACSR)
bv	1	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0114 (#2 ACSR)
ah	1	TIE, WRAPLOCK, SPOOL, PREFORMED LINE PRODUCTS PART# SPL-1354-P
b	2	PIN, POLE TOP, 20", 1-3/8" THREAD, CHANCE PART #SA2195
cs	2	BRACKET, POLE TOP, (SPACER BRACKET), CHANCE PART #2157
dl	4	PIPE SPACER, 3/4" DIA. X 1-1/2" LONG, CHANCE PART #2237
f	4	PIN, CROSSARM, STEEL, 7", 1-3/8" THREAD, CHANCE PART #4717P
g	2	CROSSARM, 3-5/8" x 4-5/8" X 8'-0"
cu	4	BRACE, WOOD, 60" SPAN, 18" DROP, HUGHES BROTHERS PART #2045-CC30-9-11
bs	1	BOLT, SINGLE UPSET
c	3	BOLT, MACHINE, 5/8" x REQ'D LENGTH
n	3	BOLT, DOUBLE ARMING, 5/8" x REQ'D LENGTH
d	11	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE
c	4	BOLT, MACHINE, 1/2" x 6"
d	4	WASHER, 1-3/8" ROUND WITH 9/16" HOLE
ek	-	LOCKNUTS, AS REQUIRED

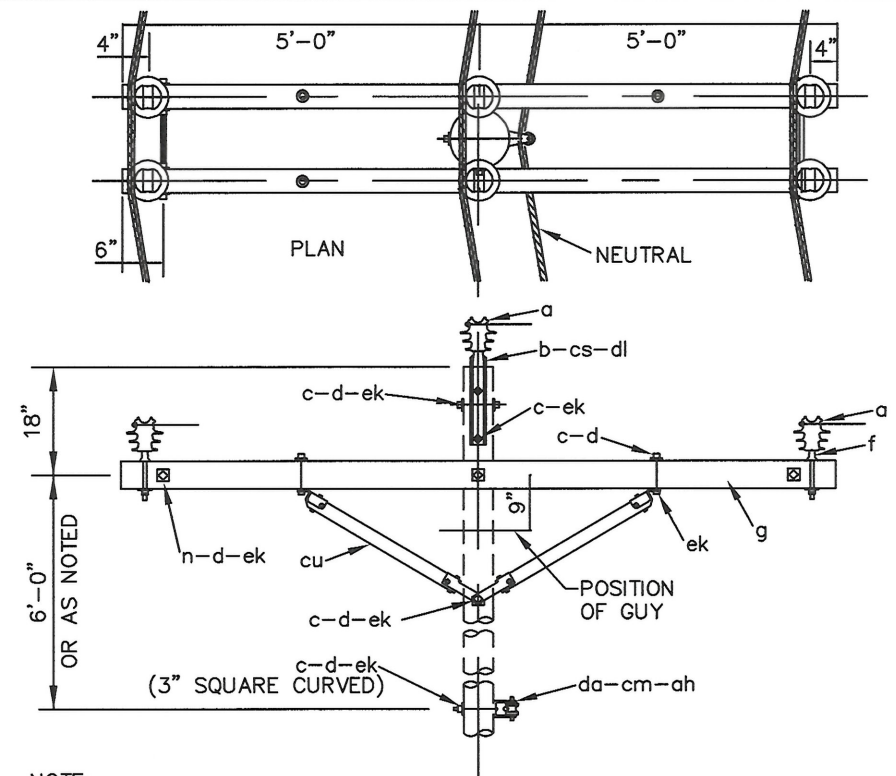
1 VC1-1
SCALE: NTS



NOTE:
1. THIS ASSEMBLY USES ARMOR RODS FOR 1/0 ACSR RAVEN AND #2 ACSR SPARATE.

MATERIAL LIST		
NO.	Qty.	DESCRIPTION
a	6	INSULATOR, PIN TYPE, VISE TOP, 35kV, 1-3/8" THREAD, ANSI 55-7, PREFORMED# IP-35-VTN2 OR HENDRIX# HPI-35VT-02
cm	1	INSULATOR, SPOOL, 3", 1-3/4" NECK, ANSI 53-2 PREFORMED LINE PRODUCTS PART# IP-53-2
bv	3	ARMOR ROD, DOUBLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0318 (1/0 ACSR)
bv	1	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0114 (#2 ACSR)
ah	1	TIE, WRAPLOCK, SPOOL, PREFORMED LINE PRODUCTS PART# SPL-1354-P
b	2	PIN, POLE TOP, 20", 1-3/8" THREAD, CHANCE PART #SA2195
cs	2	BRACKET, POLE TOP, (SPACER BRACKET), CHANCE PART #2157
dl	4	PIPE SPACER, 3/4" DIA. X 1-1/2" LONG, CHANCE PART #2237
f	4	PIN, CROSSARM, STEEL, 7", 1-3/8" THREAD, CHANCE PART #4717P
g	2	CROSSARM, 3-5/8" x 4-5/8" X 10'-0"
cu	4	BRACE, WOOD, 60" SPAN, 18" DROP, HUGHES BROTHERS PART #2045-CC30-9-11
bs	1	BOLT, SINGLE UPSET
c	3	BOLT, MACHINE, 5/8" x REQ'D LENGTH
n	3	BOLT, DOUBLE ARMING, 5/8" x REQ'D LENGTH
d	11	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE
c	4	BOLT, MACHINE, 1/2" x 6"
d	4	WASHER, 1-3/8" ROUND WITH 9/16" HOLE
ek	-	LOCKNUTS, AS REQUIRED

2 VC1-1R
SCALE: NTS

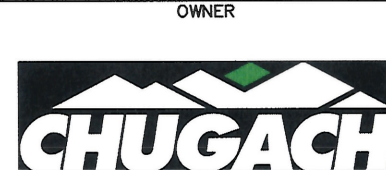


NOTE:
1. THIS ASSEMBLY USES ARMOR RODS FOR 1/0 ACSR RAVEN AND #2 ACSR SPARATE.
2. INSTALL PHASE CONDUCTORS ON SIDES OF PINS.
3. THIS ASSEMBLY USES 3" SQUARE CURVED WASHER (3 REQUIRED).

MATERIAL LIST		
NO.	Qty.	DESCRIPTION
a	6	INSULATOR, PIN TYPE, VISE TOP, 35kV, 1-3/8" THREAD, ANSI 55-7, PREFORMED# IP-35-VTN2 OR HENDRIX# HPI-35VT-02
cm	1	INSULATOR, SPOOL, 3", 1-3/4" NECK, ANSI 53-2 PREFORMED LINE PRODUCTS PART# IP-53-2
bv	3	ARMOR ROD, DOUBLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0318 (1/0 ACSR)
bv	1	ARMOR ROD, SINGLE SUPPORT, PREFORMED LINE PRODUCTS PART# AR-0114 (#2 ACSR)
ah	1	TIE, WRAPLOCK, SPOOL, PREFORMED LINE PRODUCTS PART# SPL-1354-P
b	2	PIN, POLE TOP, 20", 1-3/8" THREAD, CHANCE PART #SA2195
cs	2	BRACKET, POLE TOP, (SPACER BRACKET), CHANCE PART #2157
dl	4	PIPE SPACER, 3/4" DIA. X 1-1/2" LONG, CHANCE PART #2237
f	4	PIN, CROSSARM, STEEL, 7", 1-3/8" THREAD, CHANCE PART #4717P
g	2	CROSSARM, 3-5/8" x 4-5/8" X 10'-0"
cu	4	BRACE, WOOD, 60" SPAN, 18" DROP, HUGHES BROTHERS PART #2045-CC30-9-11
da	1	CLEVIS, LARGE, RIGID, MACLEAN #J1300, OR EQ.
c	5	BOLT, MACHINE, 5/8" x REQ'D LENGTH
d	1	WASHER, 3" SQUARE, CURVED (11/16" HOLE)
n	3	BOLT, DOUBLE ARMING, 5/8" x REQ'D LENGTH
d	12	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE
c	4	BOLT, MACHINE, 1/2" x 6"
d	4	WASHER, 1-3/8" ROUND WITH 9/16" HOLE
ek	-	LOCKNUTS, AS REQUIRED

1 VC2R
SCALE: NTS

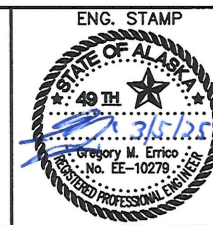
PROJECT: BIRD POINT FIBER TIES				
DESIGNER/PROJECT ENGINEER: EEE W.O. #: E2414297				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	GE/3-5-25	DT	



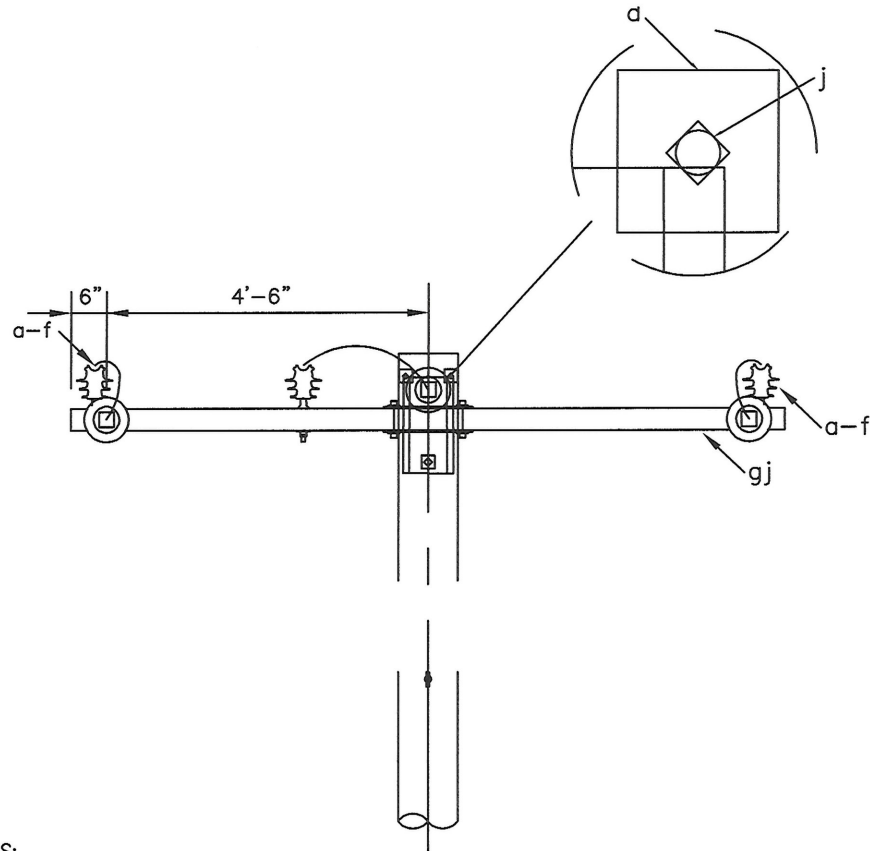
OWNER
EEE, LLC

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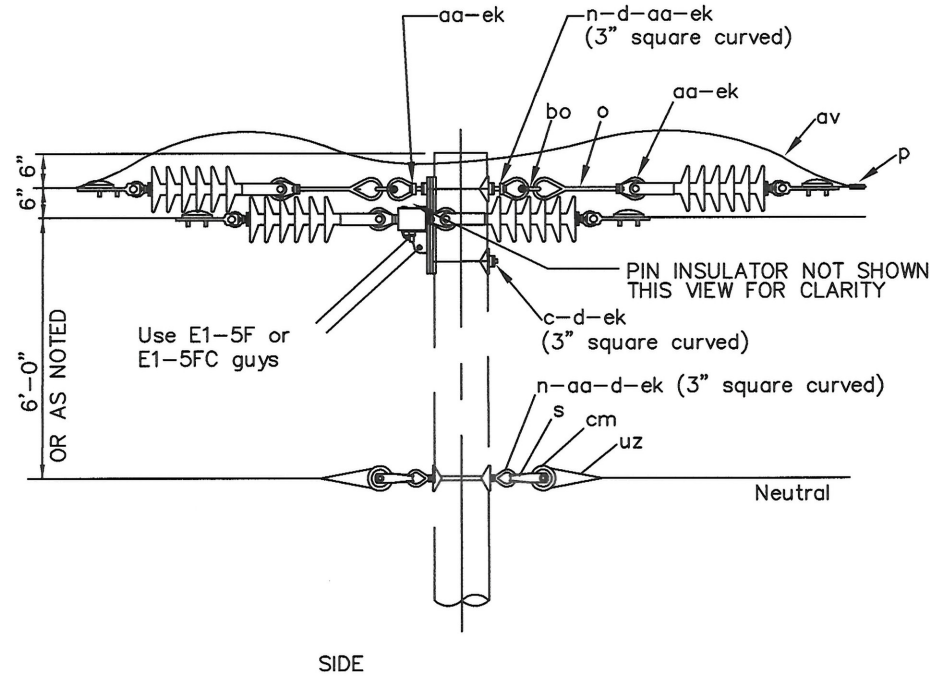
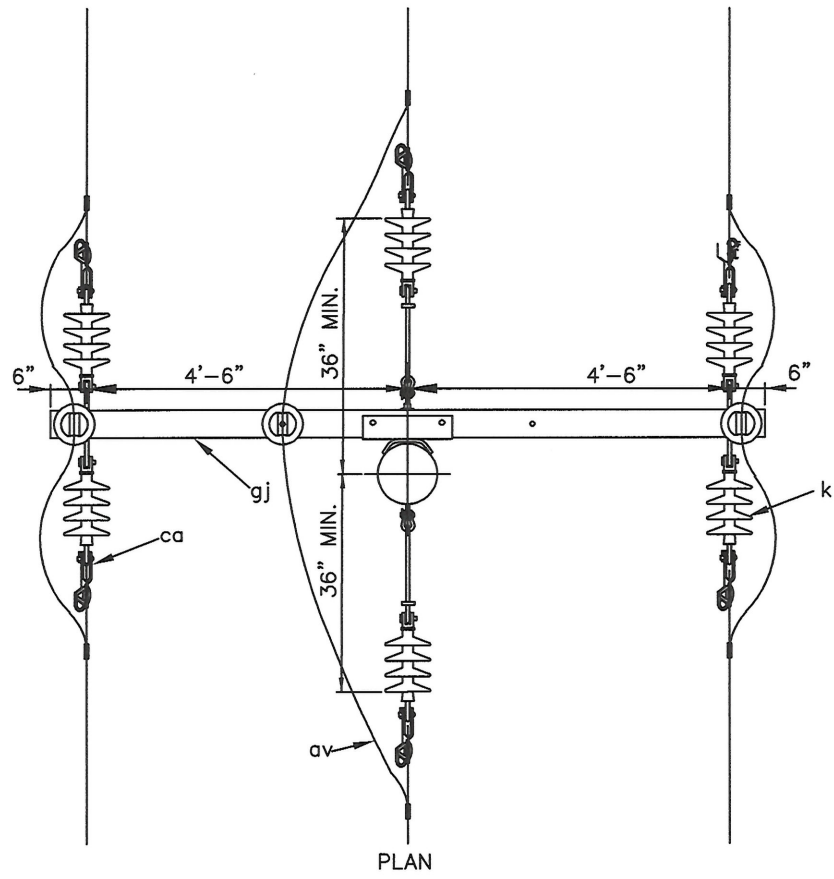


DRAWING NAME: BIRD POINT FIBER TIE IN
ELECTRIC DISTRIBUTION DETAILS
FILE NAME:
SHEET NO.: ES304
SHEET 11 of 17



- NOTES:
1. INSTALL CROSSARM OPPOSITE: HIGHER TENSION SPAN, OR LONGER SPAN.
 2. THIS ASSEMBLY: USES 3" SQUARE CURVED WASHERS (4 REQUIRED).
 3. WHERE IN-LINE GUYS ARE CALLED FOR ON POLE, INSTALL NEUTRAL DA BOLT AT SMALL ANGLE TO PROVIDE CLEARANCE TO DOWN GUYS.
 - * 4. WHERE UTILIZED FOR A LINE ANGLE GREATER THAN 5°, ORIENT ALL EYE-NUTS HORIZONTALLY AND PROVIDE ANCHOR SHACKLES BETWEEN EYE-NUTS AND EPOXILATORS AT AØ AND CØ.

MATERIAL LIST		
Item	NO.	DESCRIPTION
gj	1	CROSSARM ASSEMBLY, PUPU FIBERGLASS, #DA2500120E2B9X2
n	2	BOLT, DOUBLE ARMING, 5/8" x REQUIRED LENGTH
c	1	BOLT, MACHINE, 5/8" x REQUIRED LENGTH
d	4	WASHER, 3" SQUARE, CURVED (11/16" HOLE)
n	1	BOLT, DOUBLE ARMING, 5/8" x REQUIRED LENGTH
o	2	BOLT, EYE, 5/8" x REQUIRED LENGTH
aa	6	NUT, EYE, 5/8"
* bo	2	SHACKLE, ANCHOR, (6) REQUIRED AT LINE ANGLE - SEE NOTE 4.
k	6	INSULATOR, EPOXILATOR, SUSPENSION, 25 kV, 15,000 lb
ca	6	DEADEND, AUTOMATIC, SIDE-OPENING, #4 TO 2/0, HUBBELL PART# GDW420
cm	2	INSULATOR, SPOOL, 3", PREFORMED LINE PRODUCTS #IP-53-2, OR EQ.
s	2	CLEVIS, SWINGING, MACLEAN #J0322, OR EQUAL
uz	2	GRIP, DEADEND, #2 ACSR SPARATE, PREFORMED PART# DG4542
f	3	PIN, CROSSARM, STEEL, 7", 1-3/8" THREAD, CHANCE PART #4717P
a	3	INSULATOR, PIN TYPE, VISE TOP, 35kV, 1-3/8" THREAD, ANSI 55-7, PREFORMED# IP-35-VTN2 OR HENDRIX# HPI-35VT-02
ek	-	LOCKNUTS, AS REQUIRED
av	-	JUMPERS, #2 CU, HIGH MOLECULAR WEIGHT POLYETHYLENE COVERING, AS REQ'D
p	-	CONNECTORS, H-TAP, AS REQUIRED
j	2	SCREW, LAG, 1/2" x 4-1/2"
d	2	WASHER, 2-1/4" SQUARE WITH 11/16" HOLE



1 VC8F
SCALE: NTS

PROJECT: BIRD POINT FIBER TIES				
DESIGNER/PROJECT ENGINEER: EEE W.O. #: E2414297				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	GE/3-5-25	<i>BT</i>	



OWNER

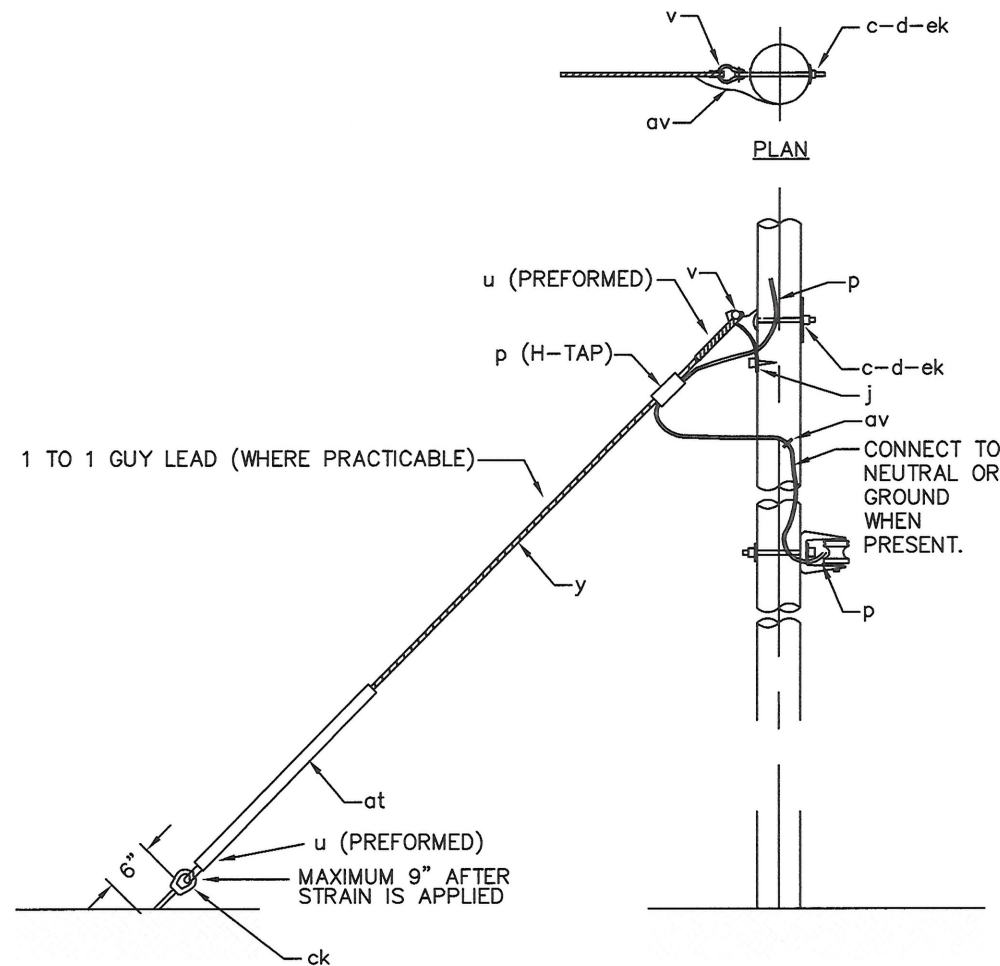
CONSULTANT

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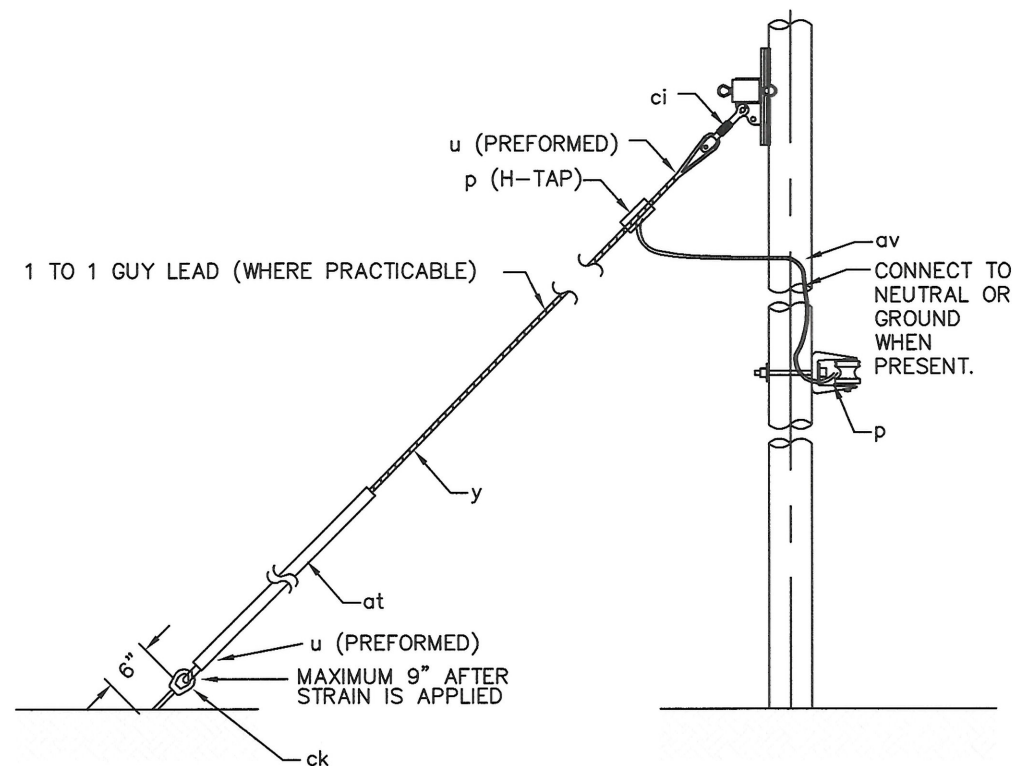
DRAWING NAME:		BIRD POINT FIBER TIE IN	
		ELECTRIC DISTRIBUTION DETAILS	
FILE NAME:		ES305	
SHEET NO.:		SHEET 12 of 17	



- NOTES:**
1. WHERE SEPARATE ANCHORS ARE INSTALLED THE MINIMUM SEPARATION SHALL BE FIVE FEET.
 2. PROVIDE A SEPARATE BOLT FOR GUY. DO NOT SHARE A SECONDARY OR NEUTRAL ATTACHMENT BOLT.
 3. SECURE GUY MARKER TO ANCHOR ROD EYE OR GUY.

MATERIAL LIST		
Item	QTY	DESCRIPTION
c	1	BOLT, MACHINE, 3/4" X REQ'D LENGTH
d	1	WASHER, STEEL, 4" SQUARE, STEEL, CURVED, 13/16" HOLE, 1/4" THICK
ek	1	LOCKNUTS, 3/4"
j	1	SCREW, LAG 1/2" x 4-1/2"
p	-	CONNECTORS, COMPRESSION, COPPER, AS REQUIRED
p	-	CONNECTORS, H-TAP, COMPRESSION, AS REQ'D
u	2	DEADEND, PREFORMED, GUY, PREFORMED #AWDE-4122
v	1	GUY, ATTACHMENT, HOOK TYPE, 18,500 LBS, CHANCE #GH6, OR APPR. EQ.
y	-	GUY STRAND, ALUMINUM CLAD STEEL, 16M, AS REQ'D
al	-	COPPER CLAD STAPLES, AS REQUIRED
av	-	JUMPERS, GROUNDING, AS REQUIRED, #6 BARE SOLID COPPER
at	1	GUY MARKER, 96", 2" DIA., YELLOW, PREFORMED #PGMS7578
ck	-	CLAMP, ANCHOR ROD, BONDING

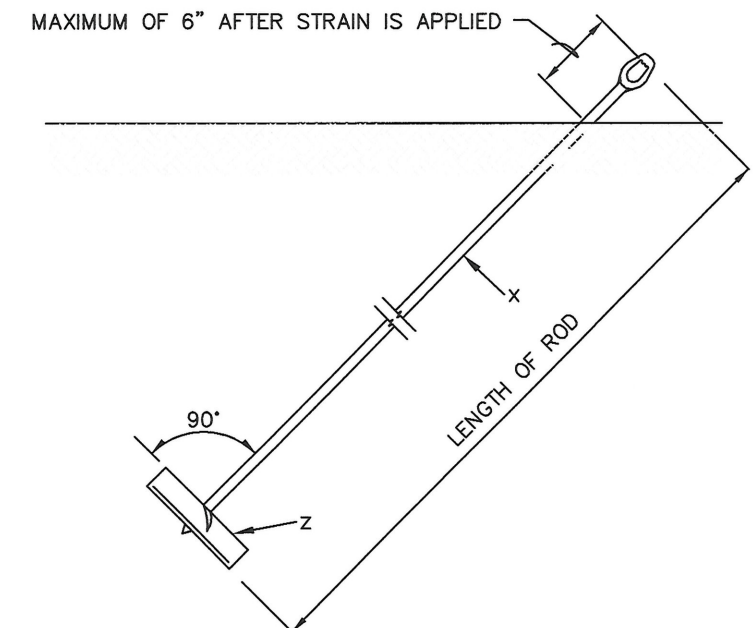
1 E1-5
SCALE: NTS



- NOTES:**
1. WHERE SEPARATE ANCHORS ARE INSTALLED THE MINIMUM SEPARATION SHALL BE FIVE FEET.
 2. SECURE GUY MARKER TO ANCHOR ROD EYE OR GUY.

MATERIAL LIST		
Item	QTY	DESCRIPTION
u	2	DEADEND, PREFORMED, GUY, PREFORMED #AWDE-4122
ci	1	CLEVIS, THIMBLE-EYE, 30,000 LBS., CHANCE #SATC2, OR EQUAL
y	-	GUY STRAND, ALUMINUM CLAD STEEL, 16M, AS REQ'D
p	-	CONNECTORS, COMPRESSION, COPPER, AS REQUIRED
p	-	CONNECTORS, H-TAP, COMPRESSION, AS REQ'D
al	-	COPPER CLAD STAPLES, AS REQUIRED
av	-	JUMPERS, GROUNDING, AS REQUIRED, #6 BARE SOLID COPPER
at	1	GUY MARKER, 96", 2" DIA., YELLOW, PREFORMED #PGMS7578
ck	1	CLAMP, ANCHOR ROD, BONDING

2 E1-5C
SCALE: NTS



- NOTES:**
1. THE ANCHOR ROD AND NUT SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
 2. CONTRACTOR SHALL INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. WHERE SEPARATE ANCHORS ARE INSTALLED THE MINIMUM SEPARATION SHALL BE FIVE FEET.

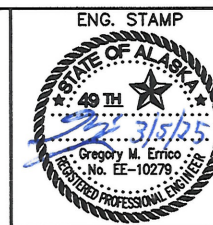
MATERIAL LIST		
Item	QTY	DESCRIPTION
x	1	ANCHOR ROD, 1" DIAMETER, 10' LONG, TRIPLE-EYE, CHANCE# 7570
z	1	ANCHOR PLATE, CHANCE# X24, 400 SQ. IN., FOR 1" ROD

3 F1-4P-TRPL
SCALE: NTS

PROJECT: BIRD POINT FIBER TIES				
DESIGNER/PROJECT ENGINEER: EEE				
W.O. #: E2414297				
NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE	CHECKED/DATE	APPROVED/DATE
0	ISSUED FOR CONSTRUCTION	GE/3-5-25	DT	



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DRAWING NAME:		BIRD POINT FIBER TIE IN
		ELECTRIC DISTRIBUTION DETAILS
FILE NAME:	ES306	
SHEET NO.:	13 OF 17	