Path: S:\Projects\41872 - Garden and Legend Substations\MAPS\NR\REPORT MAPS\IP\Maps\1 - Vicinity Map.mxd

SWCA ENVIRONMENTAL CONSULTANTS
10245 West Little York, Suite 600
Houston, Texas 77040
(281) 617-3217 phone
(281) 617-3227 fax
www.swca.com

LEGEND SUBSTATION
VICINITY MAP
JEFFERSON COUNTY, TEXAS

FIGURE 1

Project Boundary

Background:	ESRI Street Map
Scale:	1:60,000
Created By:	JS
Approved By:	CF
SWCA Project No.:	41872
Date Produced:	September 14, 2017

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

0 0.5 1 Miles
0 0.5 1 1.5 Kilometers

Path: S:\Projects\41827 - Gordon and Legend Substations\MAPS\NR\REPORT MAPS\PMaps\L3 - Legend Site Layout Map.mxd

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LEGEND SUBSTATION
SITE LAYOUT MAP
JEFFERSON COUNTY, TEXAS

FIGURE 3

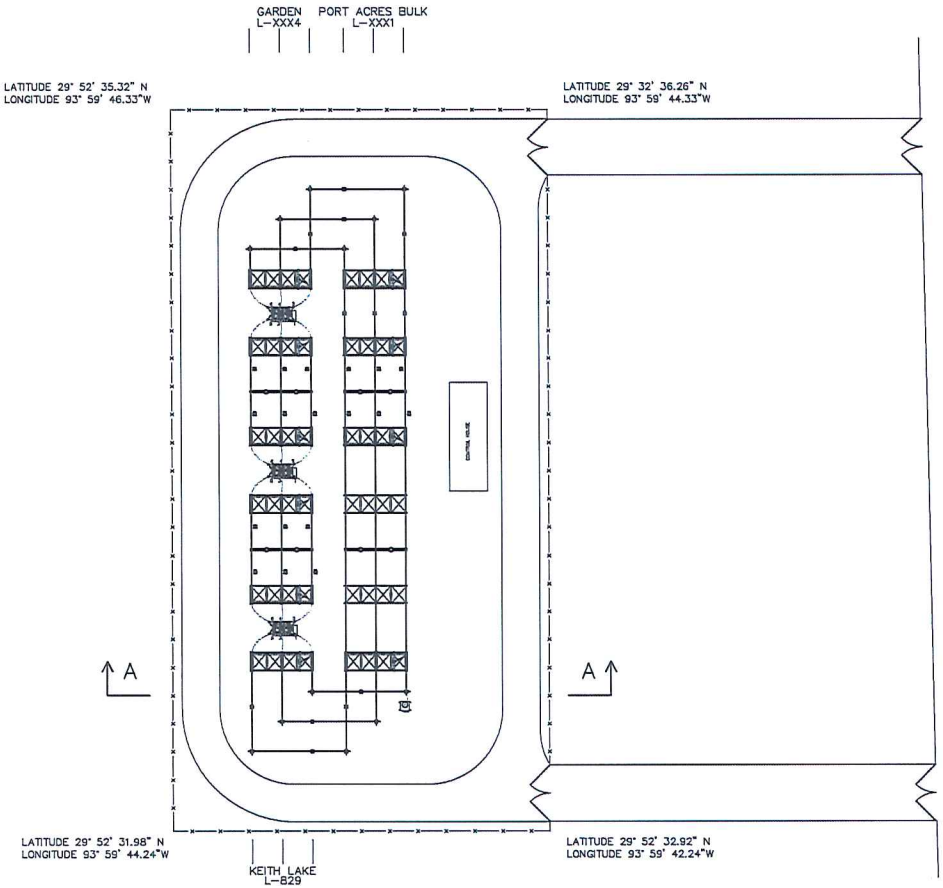
Project Boundary — Site Layout
Data Point — Emergent Wetland

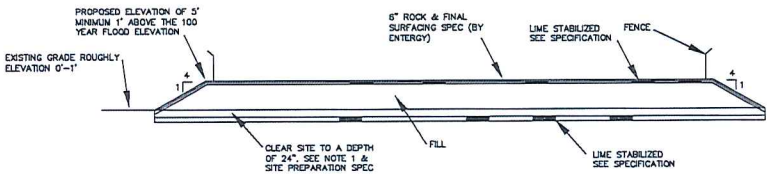
Background:	ESRI Aerial Imagery (2015)
Scale:	1:6,000
Created By:	JS
Approved By:	CF
SWCA Project No.:	41827
Date Produced:	September 14, 2017

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

0 250 500 Feet

0 50 100 150 Meters





SECTION A–A
NTS

NOTES:

1. REMOVE ALL ORGANIC MATERIAL TO A DEPTH OF 24". REPLACE WITH FILL COMPACTED TO 95% MAXIMUM CONTENT PER ASTM D698.
2. #610 AGGREGATE ROCK TO EXTEND 5 FEET OUTSIDE FENCE. COMPACTED FILL TO EXTEND 5 FEET OUTSIDE FENCE THEN TAPER TO EXISTING GRADE AT MAX SIDE SLOPE OF 4:1 (HORIZONTAL:VERTICAL).
3. SITE WORK TO CONFORM TO ENTERGY SPECIFICATIONS AND STANDARDS.

QUANTITIES:

PAD: COMPACTED FILL (EXCLUDING EXCAVATION – 11000 CY

6" STONE/RIP RAP – 1800CY

TRANSITION ROAD: COMPACTED FILL (EXCLUDING EXCAVATION) 465CY

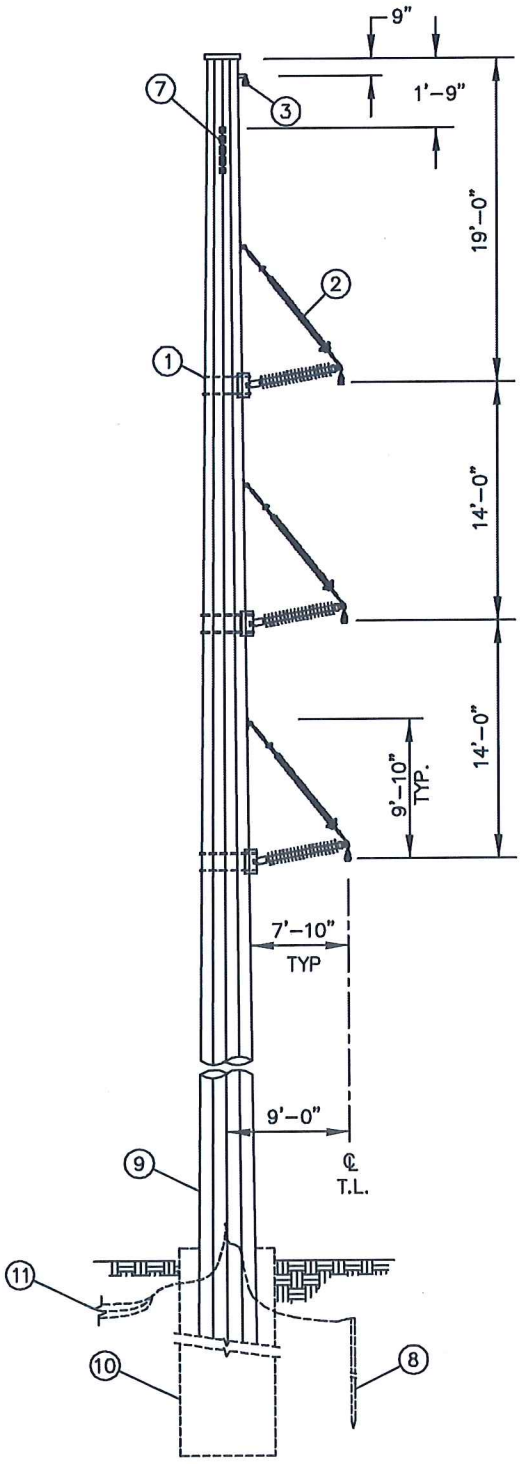
12" STONE – 685CY

A	6-13-17	PRELIMINARY	AD		
NO.	DATE:	REVISION	BY:	CHK:	APPR:

ENTERGY TEXAS, INC.
LEGEND 230kV SUBSTATION
PRELIMINARY
ELECTRICAL ARRANGEMENT
JOB NO.: SCALE: 1/32"=1'
Entergy No. GXXXXPP1
PLOT 1=240 SH. 1 OF 1

6°–20°, SELF SUPPORTING VERTICAL, SINGLE CIRCUIT,
BRACED POST 2–1/2", STEEL 230kV

ASSEMBLY LIST		
ITEM	QTY.	ASSEMBLY/DRAWING
1	3	BLT–P–S
2	3	BP2–230–XX
3	1	OHG–SUS–XX
4		
5		
6		
REFERENCE DRAWINGS		
7	1	SGN–S
8	–	GND–S–XX
9	–	POLE INDEX
10	1	FOOTING
11	–	ANODE–XX (IF REQ.)



NOTES:

1) All dimensions are to Centerline of attachment.
2) See Pole Fabricator's drawings for attachment details.
3) See Staking Sheet and CU Drawings for line angles, pole, footing, grounding, and sign requirements.
4) Refer to Assembly drawings for part details.

NO.	DATE:	REVISION	ITRON BY:	APPR:
1	4–23–03	GENERAL DRAWING REVISIONS		

SC–V–BP2–S 230

ENTERGY STANDARD DWG.

DESIGN APPROVAL	STANDARDS APPROVAL
SIGNED / DATE	SIGNED / DATE

BRACED POST STEEL 230kV 6°–20° SINGLE CIRCUIT

APPROVED BY:	DATE: 2–9–96
CHECKED BY:	SCALE: NONE
DRAWN BY: ECSI	ESI NO. TDS402A1

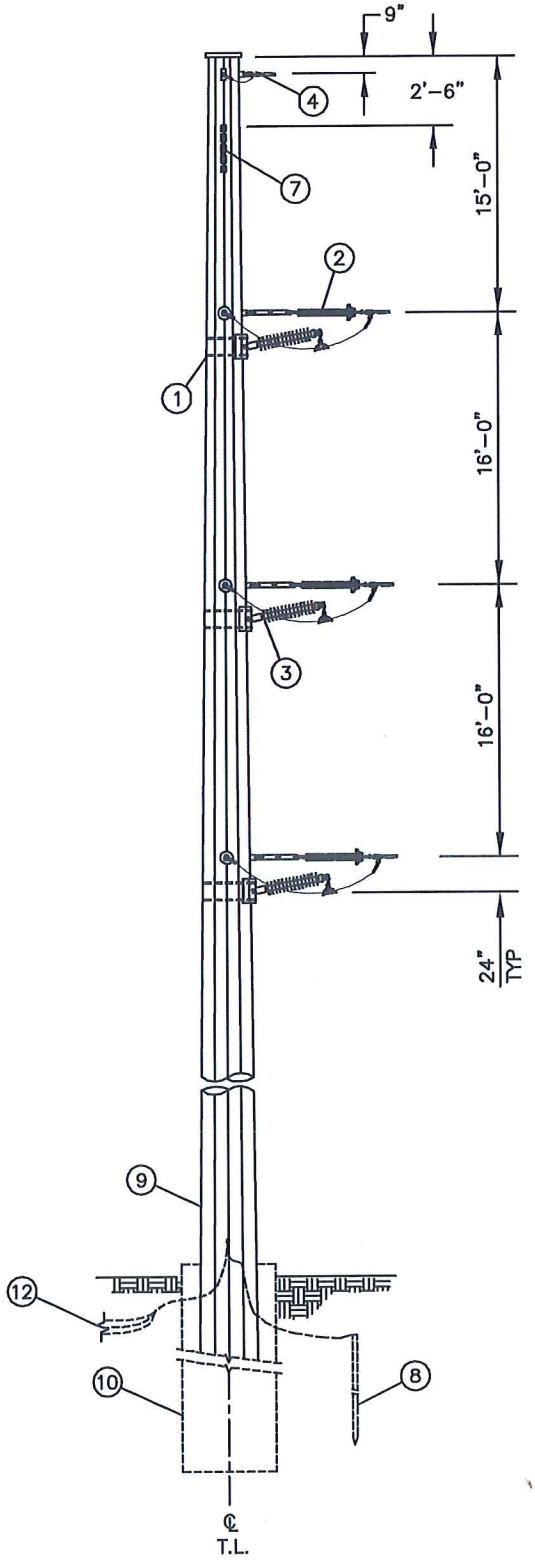
Entergy

No.

PLOT 1=130 SH. 1 OF 1

5°–70°, SELF SUPPORTING, DE, JUMPER, VERTICAL, SINGLE CIRCUIT, DE POLYMER, STEEL 230kV

ASSEMBLY LIST		
ITEM	QTY.	ASSEMBLY/DRAWING
1	3	BLT–P–S
2	6	DEP/TRB–230–XX
3	3	JLP–230–XX
4	2	OHG–DE–XX
REFERENCE DRAWINGS		
7	1	SGN–S
8	–	GND–S–XX
9	–	POLE INDEX
10	1	FOOTING
11	–	PVO, SHT 1, VW PV–19
12	–	ANODE–XX (IF REQ.)



NOTES:

1) All dimensions are to Centerline of top attachment or BLT–XX.
2) See Pole Fabricator's drawings for attachment details.
3) See Staking Sheet and CU Drawings for line angles, pole, footing, grounding, and sign requirements.
4) Refer to Assembly drawings for part details.
5) Conductor attachment vangs shall be placed within 5 degrees of Ahead and Back locations.
6) This structure shall not be used for single insulator bundled conductor applications unless the combined phase tension is less than 19.4 kips. For two insulator attachment bundled conductor applications, use the appropriate bundled framing.

NO.	DATE:	REVISION	BY:	APPR:
3	8–18–04	REVISED DIMENSION FOR SIGN	ITRON	
2	4–3–03	REV., DIM., GND., NOTE 1, ADD ITEM 12, NOTE 6	ITRON	
1	9–14–01	CHANGED ANGLE RANGE	LSFT	

SDJ–V–DEP–S 230

ENTERGY STANDARD DWG.

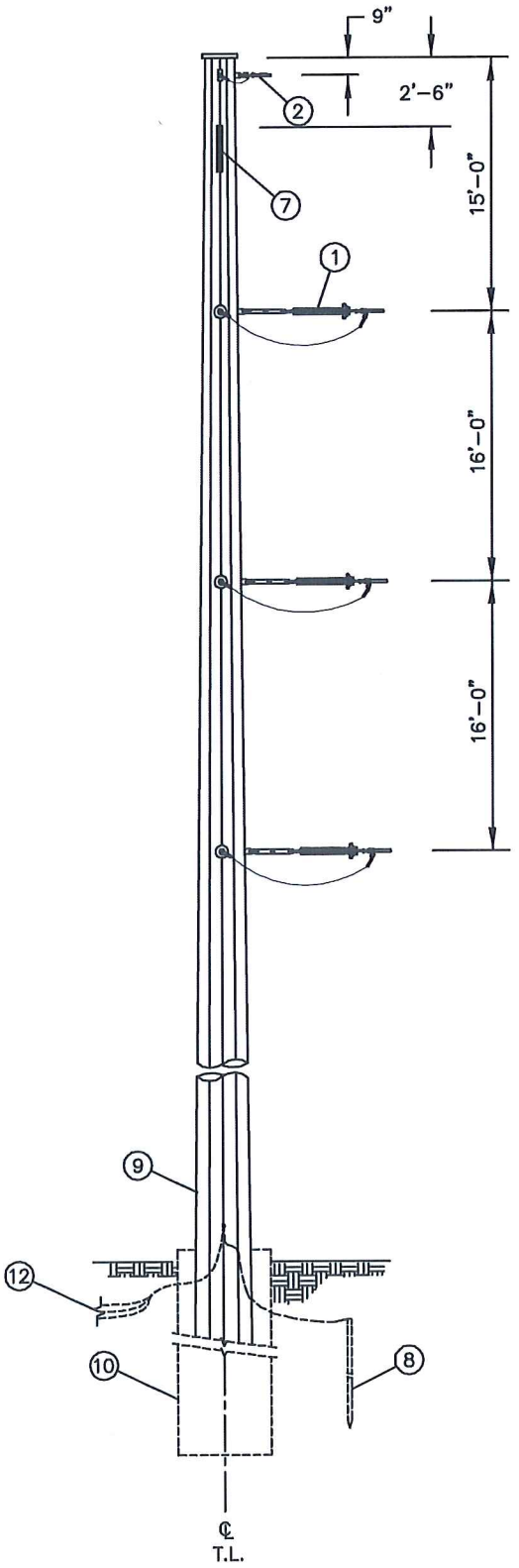
DESIGN APPROVAL	STANDARDS APPROVAL
SIGNED / DATE	SIGNED / DATE

DEADEND STEEL 230kV 5°–70° SINGLE CIRCUIT

APPROVED BY:	DATE: 10–18–96
CHECKED BY:	SCALE: NONE
DRAWN BY: LINESOFT	ESI NO. TDS417A3
Entergy	No.
	PLOT 1=130 SH. 1 OF 1

70°–120°, SELF SUPPORTING, DE, VERTICAL, SINGLE CIRCUIT, DE POLMER, STEEL 230kV

ASSEMBLY LIST		
ITEM	QTY.	ASSEMBLY/DRAWING
1	6	DEP/TRB–230–XX
2	2	OHG–DE–XX
REFERENCE DRAWINGS		
7	1	SGN–S
8	–	GND–S–XX
9	–	POLE INDEX
10	1	FOOTING
11	–	PVO, SHT 2, VW PV–15
12	–	ANODE–XX (IF REQ.)



NOTES:

1) All dimensions are to Centerline of top attachment.
2) See Pole Fabricator's drawings for attachment details.
3) See Staking Sheet and CU Drawings for line angles, pole, footing, grounding, and sign requirements.
4) Refer to Assembly drawings for part details.
5) Conductor attachment vangs shall be placed within 5 degrees of Ahead and Back locations.
6) This framing shall not be used for single insulator bundled conductor applications unless the combined phase tension is less than 19.4 kips. For two insulator attachment bundled conductor applications, use the appropriate bundled framing.

NO.	DATE:	REVISION	BY:	APPR:
2	8–18–04	REVISED DIMENSION FOR SIGN	ITRON	
1	4–28–03	REV., DIM., GND., NOTE 1, ADD ITEM 12, NOTE 6	ITRON	

SD–V–DEP–S 230

ENTERGY STANDARD DWG.

DESIGN APPROVAL	STANDARDS APPROVAL
SIGNED / DATE	SIGNED / DATE

DEADEND STEEL 230kV
70°–120° SINGLE CIRCUIT

APPROVED BY:	DATE: 10–18–96
CHECKED BY:	SCALE: NONE
DRAWN BY:	ESI NO. TDS419A2

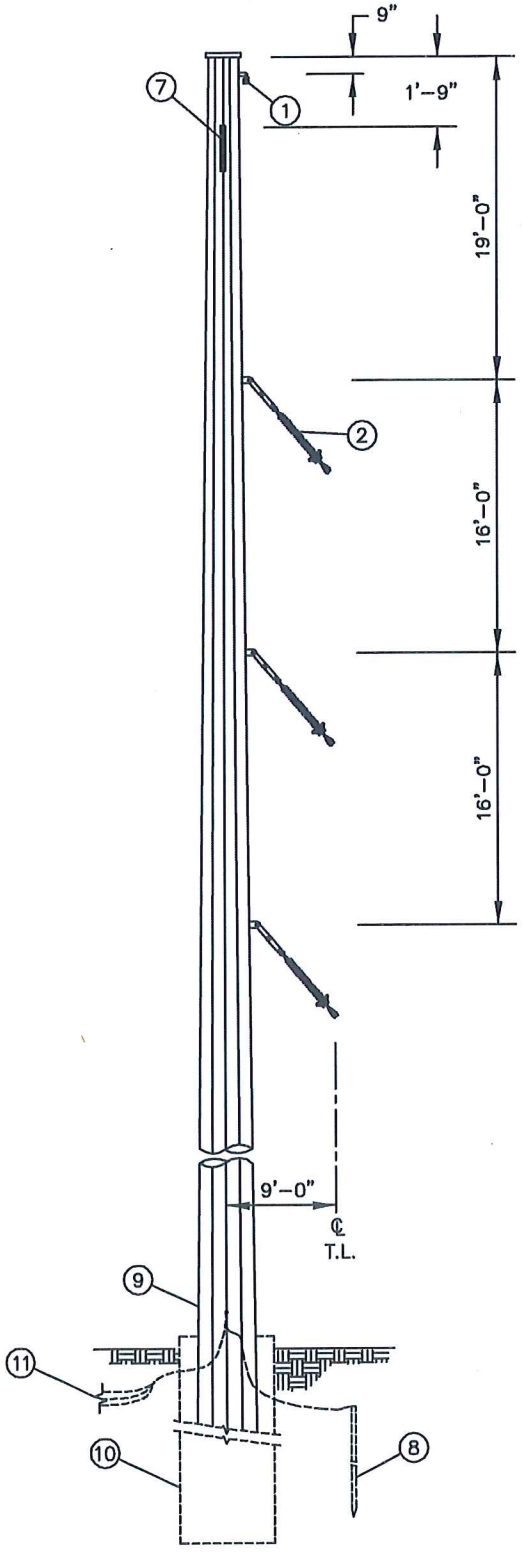
Entergy

No.

PLOT 1=130 SH. 1 OF 1

15°–30°, SELF SUPPORTING SUSPENSION, VERTICAL,
SINGLE CIRCUIT, SUSPENSION HEAVY POLYMER w/LINK, STEEL 230kV

ASSEMBLY LIST		
ITEM	QTY.	ASSEMBLY/DRAWING
1	1	OHG–SUS–XX
2	3	SHR–LINK–230–XX
3		
4		
5		
6		
REFERENCE DRAWINGS		
7	1	SGN–S
8	–	GND–S–XX
9	–	POLE INDEX
10	1	FOOTING
11	–	ANODE–XX (IF REQ.)



NOTES:

1) All dimensions are to Centerline of attachment.
2) See Pole Fabricator's drawings for attachment details.
3) See Staking Sheet and CU Drawings for line angles, pole, footing, grounding, and sign requirements.
4) Refer to Assembly drawings for part details.
5) For Insulator Swing Angle see Swing Angle Chart.

NO.	DATE:	REVISION	BY:	APPR:
1	4–28–03	ADDED DIMS, GROUNDING AND ANODE OPTIONS	ITRON	

SF–V–SHR–S 230
ENTERGY STANDARD DWG.

DESIGN APPROVAL	STANDARDS APPROVAL
SIGNED / DATE	SIGNED / DATE

SUSP ANGLE STEEL 230kV
15°–30° SINGLE CIRCUIT

APPROVED BY:	DATE: 2–9–96
CHECKED BY:	SCALE: NONE
DRAWN BY: ECSI	ESI NO. TDS423A1

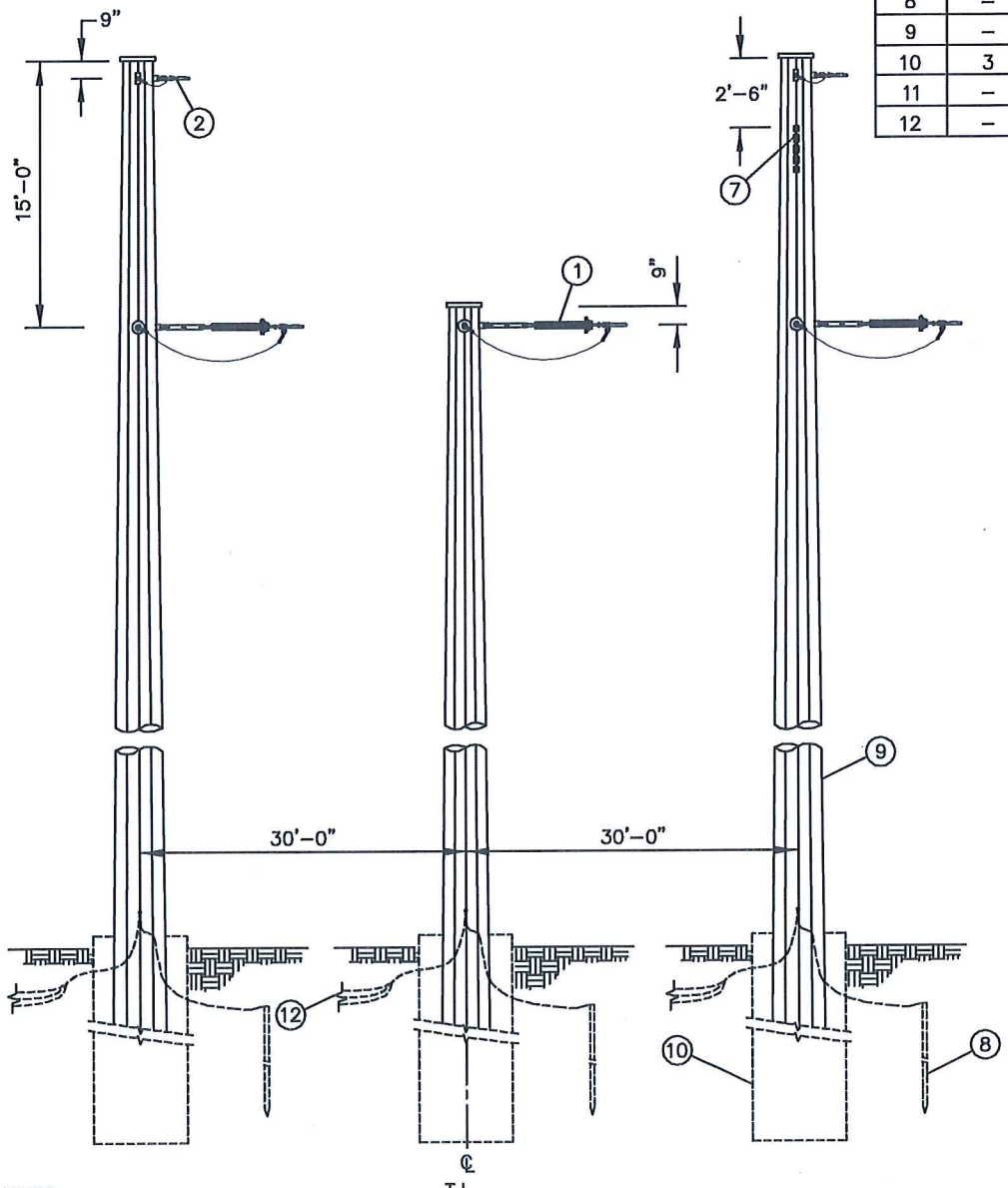
Entergy

No.

PLOT 1=130 SH. 1 OF 1

70°–120°, SELF SUPPORTED DE 3–POLE, NO GUYS, SINGLE CIRCUIT, DE POLYMER, STEEL 230kV

ASSEMBLY LIST		
ITEM	QTY.	ASSEMBLY/DRAWING
1	6	DEP/TRB–230–XX
2	4	OHG–DE–XX
REFERENCE DRAWINGS		
7	1	SGN–S
8	–	GND–S–XX
9	–	POLE INDEX
10	3	FOOTING
11	–	PVO–SHT11, VIEW PV–44
12	–	ANODE–XX (IF REQ.)



NOTES:

1) All dimensions are to Centerline of top attachment.
2) See Pole Fabricator's drawings for attachment details.
3) See Staking Sheet and CU Drawings for line angles, pole, footing, grounding and sign requirments.
4) Refer to Assembly drawings for part details.
5) Conductor attachment vangs shall be placed within 5 degrees of Ahead and Back locations.
6) Pole vendor should analyze structure loading for each job.
7) This structure shall not be used for single insulator bundled conductor applications unless the combined phase tension is less than 19.4 kips. For two insulator attachment bundled conductor applications, use the appropriate bundled framing.

NO.	DATE:	REVISION	BY:	APPR:
2	8–18–04	REVISED DIMENSION FOR SIGN	ITRON	
1	4–29–03	GENERAL DRAWING REVISIONS	ITRON	

SL3–NG–DEP–S 230

ENTERGY STANDARD DWG.

DESIGN APPROVAL	STANDARDS APPROVAL
SIGNED / DATE	SIGNED / DATE

3–POLE DE STEEL 230kV 70°–120° SINGLE CIRCUIT

APPROVED BY:	DATE: 12–09–96
CHECKED BY:	SCALE: NONE
DRAWN BY:	ESI NO. TDS427A2

Entergy

No.

PLOT 1=130 SH. 1 OF 1