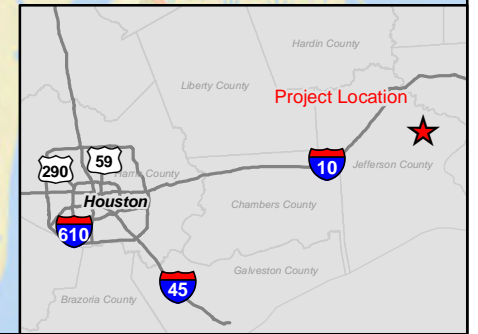


Path: S:\Project\41872 - Garden and Legions\Substations\MAPS\REPORT MAPS\SP Map\SP Map.mxd



SWCA
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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

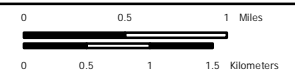
FIGURE 1

 Project Boundary



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

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet



Path: S:\Project\41872 - Garden and Legend Substation\MAPS\REPORT MAPS\LP Mapset2 - Legend NWI Map.mxd






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LEGEND SUBSTATION
RESOURCE REVIEW MAP
JEFFERSON COUNTY, TEXAS

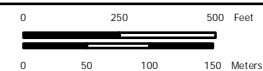
FIGURE 2

-  Project Boundary
-  NHD
-  NWI



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

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet





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LEGEND SUBSTATION
SITE LAYOUT MAP
JEFFERSON COUNTY, TEXAS

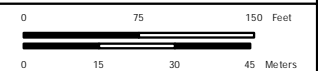
FIGURE 3

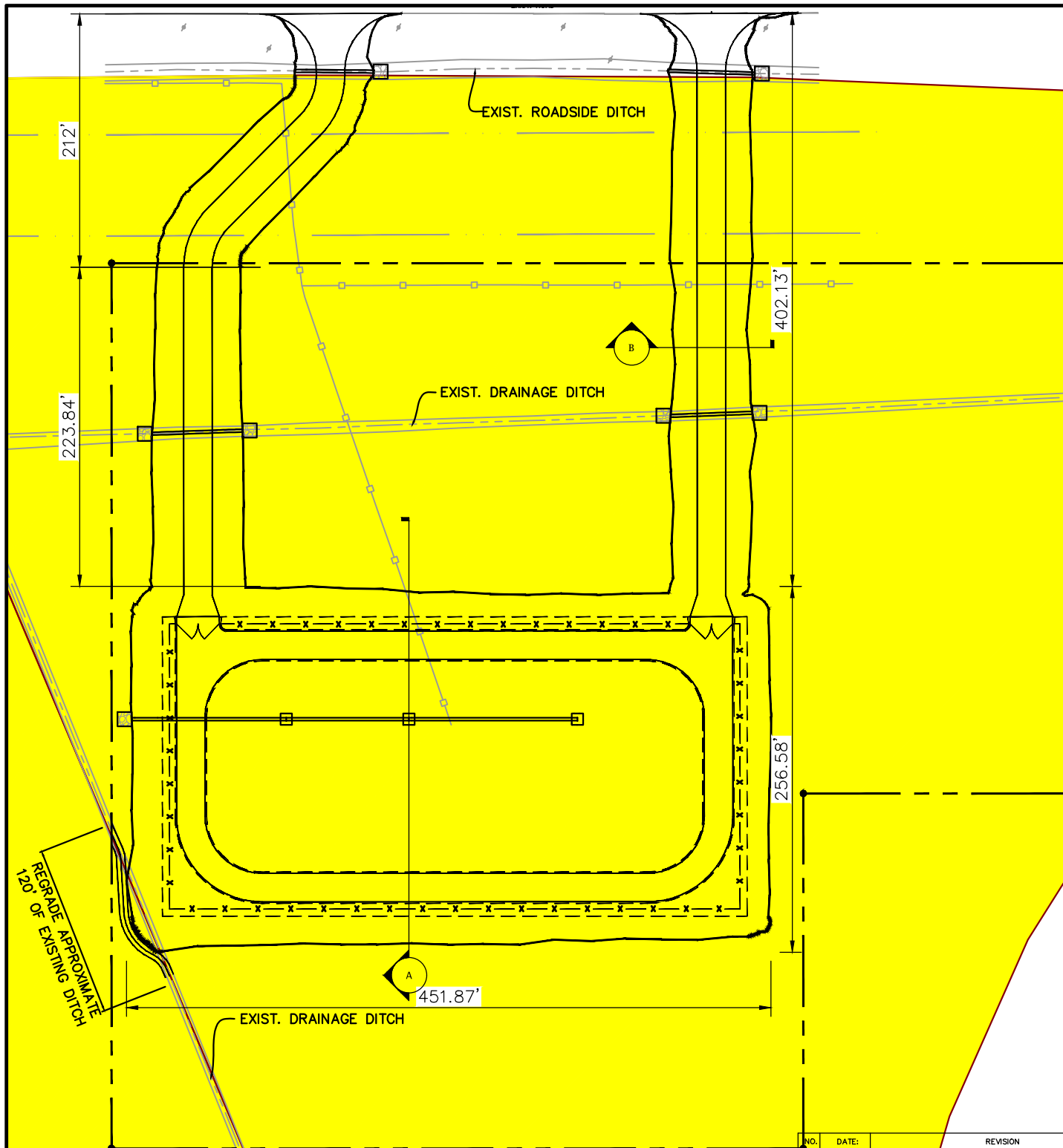
- Site Layout
- Ephemeral Waterbody Temporary Impact
- Wetland Impacts**
- ▨ PEM Wetland Fill
- ▨ PEM Temporary Impact



Background:	ESRI Aerial Imagery (2015)
Scale:	1:1,500
Created By:	JS
Approved By:	CF
SWCA Project No.:	41827
Date Produced:	December 04, 2018

NAD 1983 StatePlane Texas South Central FIPS 4204 Feet





NOTES:

1. ALL FLOWLINES TO REMAIN THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED TO MATCH FLOWLINES PRIOR TO DISTURBANCE.
2. TREES AND OTHER VEGETATION WITHIN THE EARTHWORK LIMITS SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH ENTERGY STANDARD SL1202, REV 2, EFFECTIVE 05-2006. CLEARING AND GRUBBING WITHIN PROPOSED EARTHWORK LIMITS SHALL BE DONE IN ACCORDANCE WITH ENTERGY STANDARD SL1202, REV 2, EFFECTIVE 05-2006. ADDITIONAL CLEARING AND GRUBBING SHALL HAVE PRIOR APPROVAL BY THE CONTRACTOR.
3. STRIP AND GRUB ALL AREAS DESIGNATED TO RECEIVE FILL TO A DEPTH NOT LESS THAN 6 INCHES FROM EXISTING GRADE TO REMOVE ALL ORGANIC MATTER, DEBRIS, AND UNSTABLE SOIL IN ACCORDANCE WITH ENTERGY STANDARD SL1202, REV 2, EFFECTIVE 05-2006.
4. SITE WORK TO CONFORM TO ENTERGY SPECIFICATIONS AND STANDARDS.
5. COMPACTED #610 GRAY LIMESTONE CRUSHED ROCK TO EXTEND 5 FEET OUTSIDE FENCE.

QUANTITIES:

SUBSTATION PAD: COMPACTED FILL - 15,988 CY
 ACCESS ROAD OUTSIDE SUBSTATION: COMPACTED FILL - 4,953 CY
 12" RIPRAP (4:1 SLOPE PROTECTION) - 856 CY
 SUBSTATION SURFACE ROCK - #610 GRAY LIMESTONE (6" COMPACTED) - 1,594 CY
 SUBSTATION PAVING ACCESS ROAD (INSIDE PAD) - #610 GRAY LIMESTONE (6" COMPACTED) - 400 CY
 ACCESS ROAD OUTSIDE SUBSTATION - #610 GRAY LIMESTONE (4" COMPACTED) - 236 CY
 ACCESS ROAD OUTSIDE SUBSTATION - TXDOT 247 (8" COMPACTED) - 472 CY
 10'X10' (6" RIPRAP MATT) (OUTLET PROTECTION) - 13 CY

BURNS MEDONNELL
 Engineering License #F-845

**PRELIMINARY ONLY
 NOT FOR CONSTRUCTION**

ENTERGY GULF STATES, INC.

LEGEND 230kV SUBSTATION

SITE PLAN

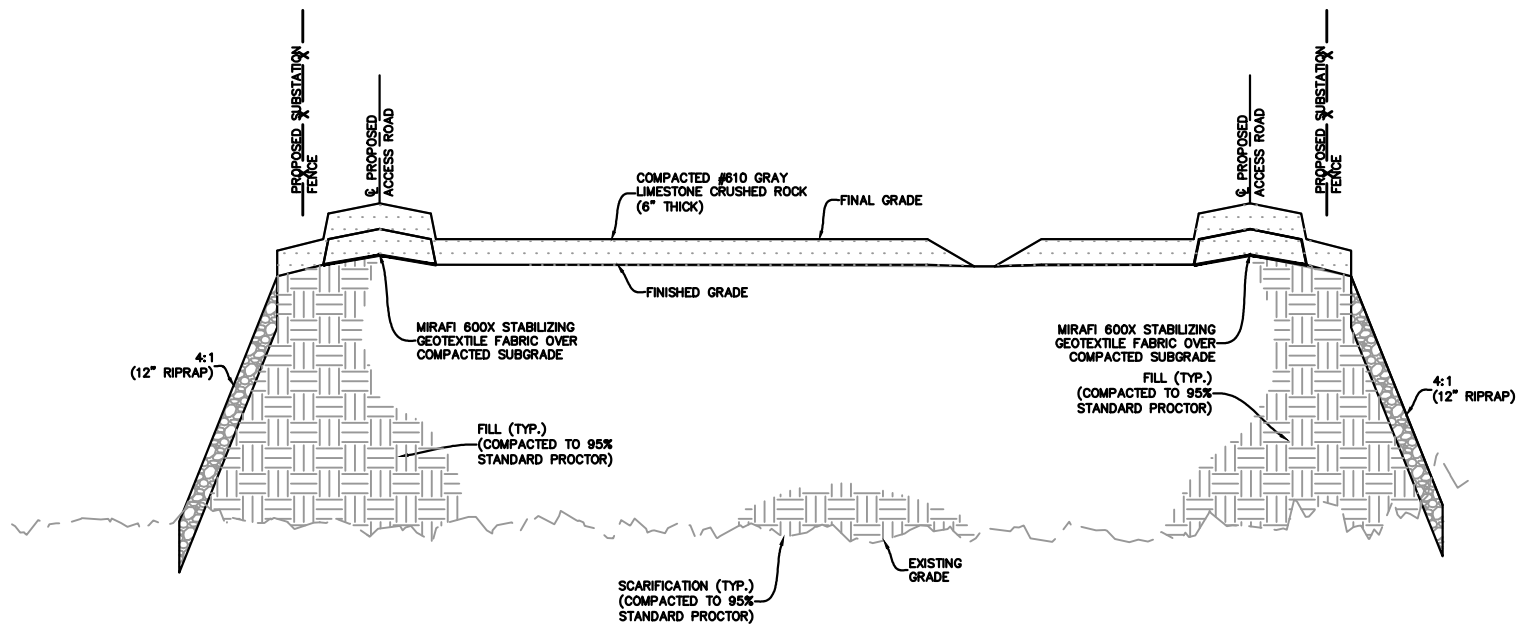
GRADING & DRAINAGE

JOB NO.: CBPPTSH106 SCALE: 1" = 100'

No. **G2075XXX**
 PLOT 1=1 SH. 1 OF 1



NO. DATE: REVISION BY: CHK: APPR:



TYPICAL SUBSTATION PAD SECTION A
NOT TO SCALE

**BURNS
MEDONNELL**
Engineering License #F-845

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NOT FOR CONSTRUCTION

ENTERGY GULF STATES, INC.

LEGEND 230KV SUBSTATION

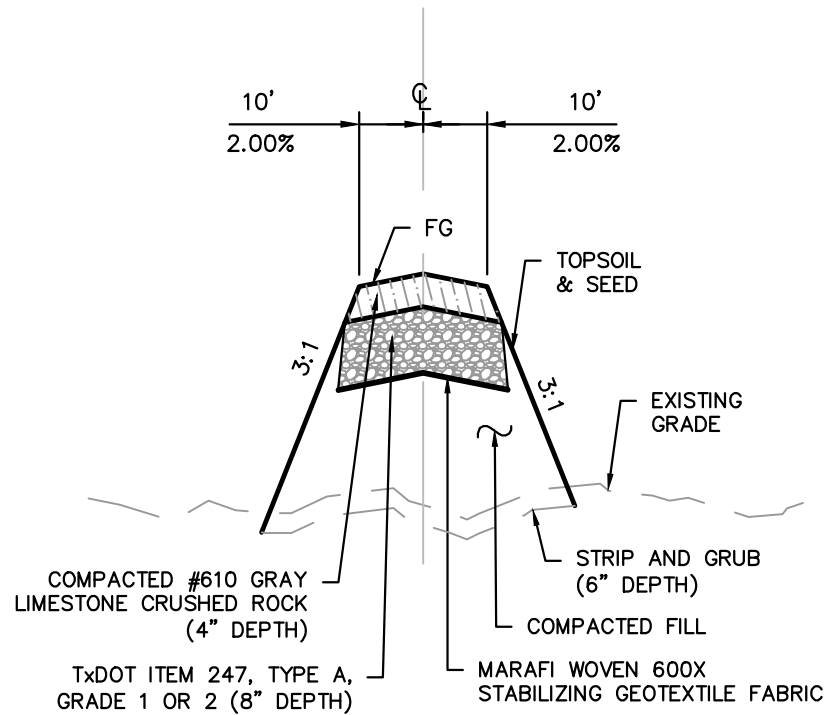
SECTION A

GRADING & DRAINAGE

JOB NO.: C6PPTSH106 SCALE: NONE

Plot area with Entergy logo and project details: No. **G2075XXX**, PLOT 1=1, SH. 1 OF 1

NO.	DATE:	REVISION	BY:	CHK:	APPR:
-----	-------	----------	-----	------	-------



TYPICAL ACCESS ROAD SECTION B

NOT TO SCALE

**BURNS
MEDONNELL**
Engineering License #F-845

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

ENTERGY GULF STATES, INC.

LEGEND 230KV SUBSTATION

SECTION B

GRADING & DRAINAGE

JOB NO.: C6PPTSH106 SCALE: NONE

No. **G2075XXX**
PLOT 1=1 SH. 1 OF 1



NO.	DATE:	REVISION	BY:	CHK:	APPR:
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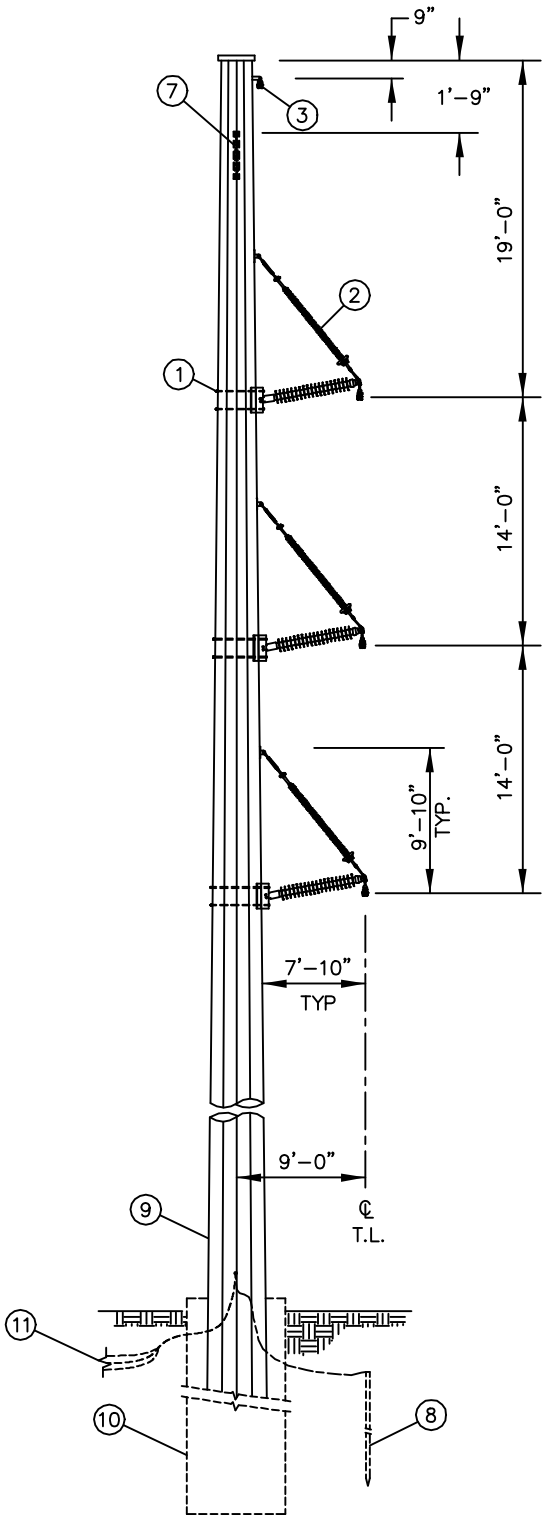
6°-20°, SELF SUPPORTING VERTICAL, SINGLE CIRCUIT,
BRACED POST 2-1/2", STEEL 230kV

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.

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

1 4-23-03

GENERAL DRAWING REVISIONS

ITRON

NO.

DATE:

REVISION

BY:

APPR:



No.

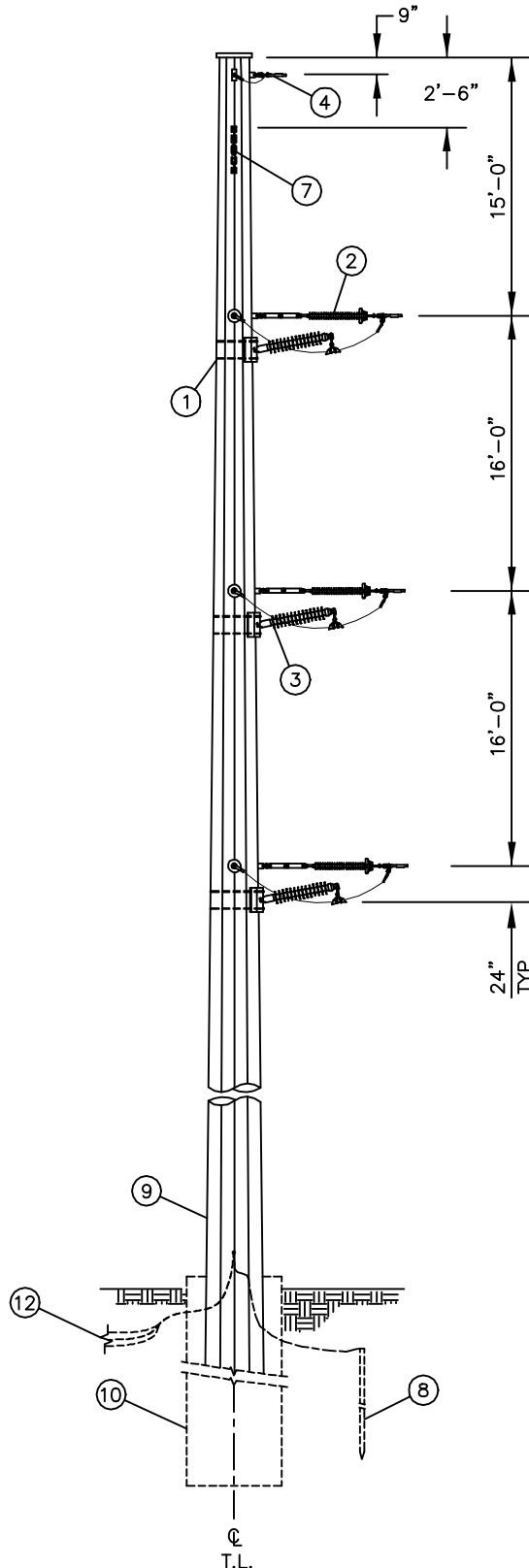
PLOT 1=130

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.

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

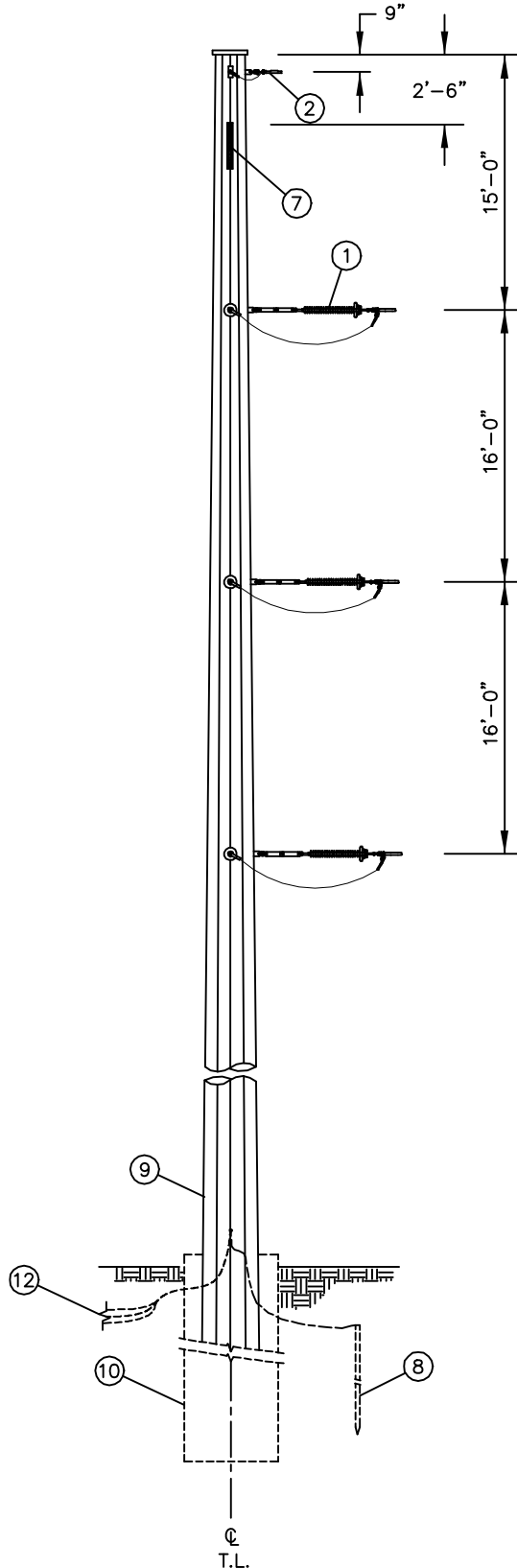
SH. 1 OF 1

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	
NO.	DATE:	REVISION	BY:	APPR:

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.

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

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



No.
PLOT 1=130 SH. 1 OF 1

15°-30°, SELF SUPPORTING SUSPENSION, VERTICAL, SINGLE CIRCUIT, SUSPENSION HEAVY POLYMER w/LINK, STEEL 230kV			
1	4-28-03	ADDED DIMS, GROUNDING AND ANODE OPTIONS	ITRON
NO.	DATE:	REVISION	BY: APPR:

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.)

All dimensions are to Centerline of attachment.


See Pole Fabricator's drawings for attachment details.

See Staking Sheet and CU Drawings for line angles, pole, footing, grounding, and sign requirements.

Refer to Assembly drawings for part details.

For Insulator Swing Angle see Swing Angle Chart.

- 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.

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
	No.	
	PLOT 1=130	SH. 1 OF 1

DESIGN APPROVAL	STANDARDS APPROVAL
SIGNED _____ / DATE _____	SIGNED _____ / DATE _____

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

No.	
PLOT 1=130	SH. 1 OF 1

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

