



TUBE DIAMETERS MEASURED ACROSS FLATS

DWG. NO.

1G

A diagram of a vertical rectangular box with a red border. Green arrows point to the top, bottom, and right edges. The right edge has a bracket indicating a specific section.



TUBE DIAMETERS MEASURED ACROSS FLATS



**Greenville
Utilities**

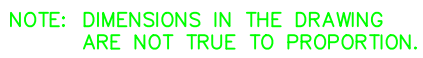


NOTE: DIMENSIONS IN THE DRAWING
ARE NOT TRUE TO PROPORTION.

TUBE DIAMETERS MEASURED ACROSS FLATS



**Greenville
Utilities**



TUBE DIAMETERS MEASURED ACROSS FLATS

DWG. NO.
15G

A diagram of a vertical rectangular box with a red border. Green arrows point to the top, bottom, and right edges. The right edge has a bracket indicating a specific section.



TUBE DIAMETERS MEASURED ACROSS FLATS



**Greenville
Utilities**

CIRCUIT 15 STRUCTURE 16a & 18a
GROUNDING AND COATINGS DETAIL

REVISION

16(a)G

A diagram of a vertical rectangular box with a red border. Green arrows point to the top, bottom, and right edges. The right edge has a bracket indicating a specific section.



TUBE DIAMETERS MEASURED ACROSS FLATS



**Greenville
Utilities**

A diagram of a vertical rectangular box with a red border. Green arrows point to the top, bottom, and right edges. The right edge has a bracket indicating a specific section.



NOTE: DIMENSIONS IN THE DRAWING
ARE NOT TRUE TO PROPORTION.

1. FLATS 1 AND 12 ARE ADJACENT TO SEAM WELD
2. ALL CROSS SECTION VIEWS ARE FROM SMALL END OF TUBE.
3. POLE TUBE DATA REF MATERIAL=S-99

TUBE DIAMETERS MEASURED ACROSS FLATS



**Greenville
Utilities**

GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
 Greenville Utilities		CIRCUIT 16, STRUCTURE 1 GROUNDING AND COATINGS DETAIL		
DWN. JLS		DATE: 12/09/19		DWG. NO. 1G
CKD. KW		APPD. KW		
SCALE: N.T.S.				
DATE	REVISION	DATE	REVISION	

A diagram of a vertical rectangular box with a red border. Green arrows point to the top, bottom, and right edges. The right edge has a bracket indicating a specific section.



TUBE DIAMETERS MEASURED ACROSS FLATS

2G



TUBE DIAMETERS MEASURED ACROSS FLATS



**Greenville
Utilities**



NOTE: DIMENSIONS IN THE DRAWING
ARE NOT TRUE TO PROPORTION.

TUBE LENGTH	END OD (IN)		THICKNESS (IN)
	LARGE	SMALL	
75'			

TUBE DIAMETERS MEASURED ACROSS FLATS

GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
 Greenville Utilities		CIRCUIT 16, STRUCTURE 8 GROUNDING AND COATINGS DETAIL		
DWN. JLS		DATE: 12/09/19		DWG. NO. 86
CKD. KW		APPD. KW		
SCALE: N.T.S.				
DATE	REVISION	DATE	REVISION	

GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
 Greenville Utilities		CIRCUIT 16, STRUCTURE 9 GROUNDING AND COATINGS DETAIL		
DWN. JLS		DATE: 12/09/2019		DWG. NO. 96
CKD. KW		APPD. KW		
SCALE: N.T.S.				
DATE	REVISION	DATE	REVISION	

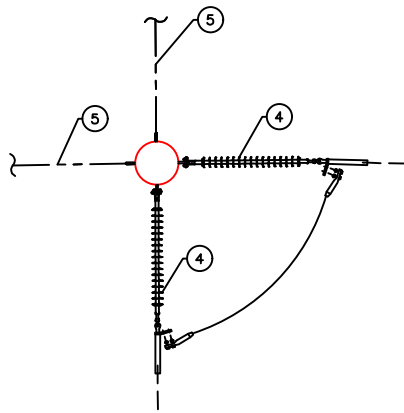


TUBE DIAMETERS MEASURED ACROSS FLATS

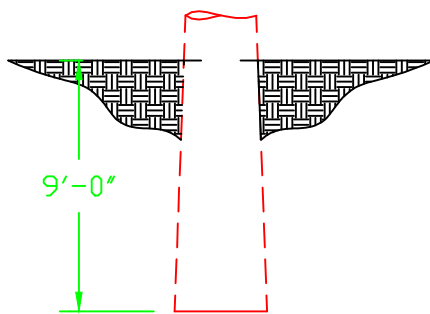


**Greenville
Utilities**

GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
 Greenville Utilities		CIRCUIT 17, STRUCTURE 3 GROUNDING AND COATINGS DETAIL		
DWN. JLS		DATE: 12/10/19		DWG. NO. 3G
CKD. KW		APPD. KW		
SCALE: N.T.S.				
DATE	REVISION	DATE	REVISION	



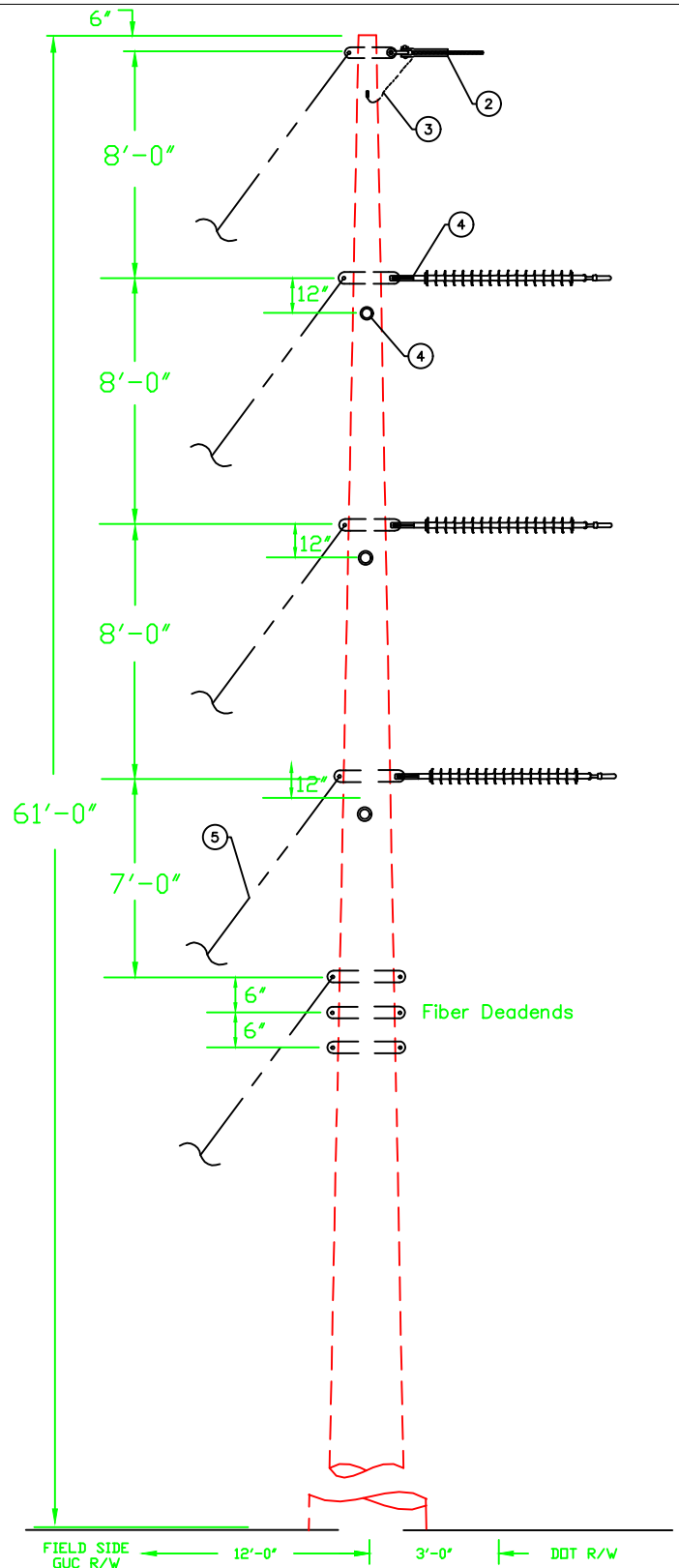
OVERHEAD VIEW



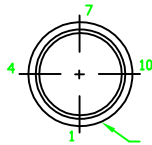
70' Structure Embedment

NOTE:

1. THE ANGLE BETWEEN CONDUCTOR VANGS IS 90°.
2. DRAWING IS NOT TO SCALE.
3. SINGLE BOLT OHGW SUPPORT WILL BE FIELD DRILLED FOR STATIC RUNNING TO CKT 16 STRUCTURE 2.
4. SPAN GUY WILL BE USED OPPOSITE OF EACH CONDUCTOR FROM SUBSTATION.

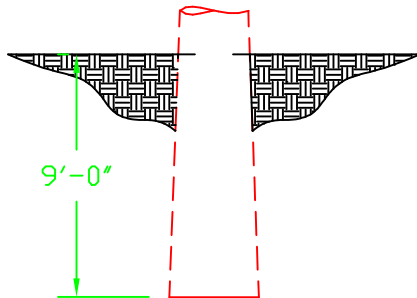


DWG. REF.		LIST OF MATERIALS			GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
	ea.	DESCRIPTION	ITEM	DET.		CIRCUIT 15 STRUCTURE 1 115 KV 3 PHASE, VERTICAL STRUCTURE LARGE ANGLE, DOUBLE DEADEND SUSPENSION			
1	1	SINGLE BOLT OHGW SUPPORT	–	TM–6A(S)					
2	1	OHGW ASSEMBLY, DEADEND	–	TM–4E					
3	2	OHGW GROUNDING ASSEMBLY	–	TM–2B					
4	6	DEADEND ASSEMBLY, PRIMARY	–	TM–1EM					
5	5	SINGLE DOWN GUY	–	TG–21A	DWN. JLS	DATE: 11/22/2019		DWG. NO. TSV4	
	4	SPAN GUY	–		CKD. KW	APPD. KW			
	1	DRIVEN GROUND ROD ASSEMBLY	–	TM–9	SCALE: N.T.S.				
	5	ANCHOR ASSEMBLY, TRANSMISSION	–	TA–2H	DATE	REVISION	DATE		REVISION



THRU HOLE BORING DETAIL

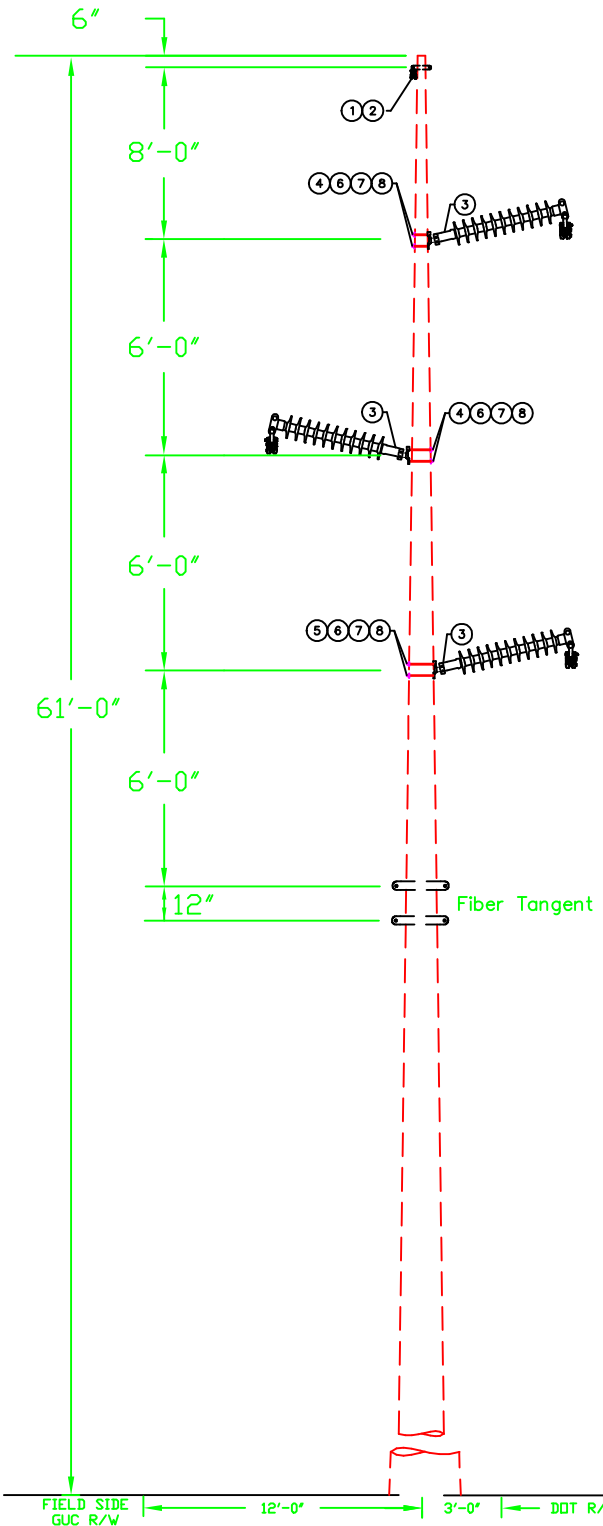
DIAMETER	FROM SMALL END	FLAT#
1.00"	8'-0.00"	4
1.00"	9'-0.00"	4
1.00"	14'-0.00"	4
1.00"	15'-0.00"	4
1.00"	20'-0.00"	4
1.00"	21'-0.00"	4



70' STRUCTURE EMBEDMENT

NOTES:

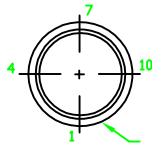
- DRAWING IS NOT TO SCALE. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.



DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	1	OHGW ASSEMBLY, TANGENT	-	TM-4A				
2	1	OHGW GROUNDING ASSEMBLY	-	TM-9X(S)				
3	3	115 KV POST INSULATOR, TANGENT	-	TM-3DM				
4	4	BOLT, MACHINE, 3/4" x 20"	-					
5	2	BOLT, MACHINE, 3/4" x 22"	-		DWN. JLS		DATE: 11/25/2019	
6	6	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-		CKD. KW		APPD. KW	
7	6	SPRING LOCK WASHER, 3/4"	-		SCALE: N.T.S.			
8	6	NUT, 3/4"	-		DATE	REVISION	DATE	REVISION
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9	10/08/2020	A		

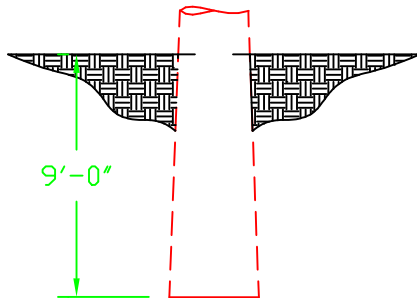
DWG. NO.

TPZ1



THRU HOLE BORING DETAIL

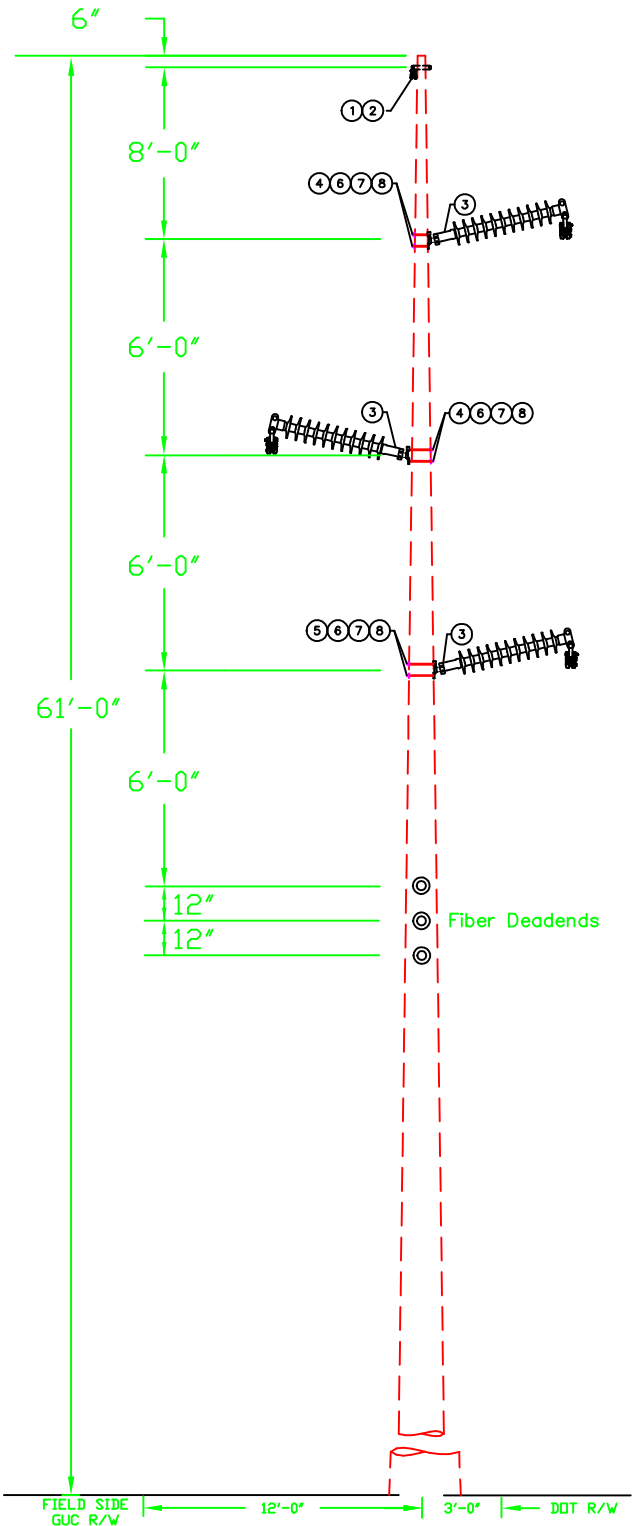
DIAMETER	FROM SMALL END	FLAT#
1.00"	8'-0.00"	4
1.00"	9'-0.00"	4
1.00"	14'-0.00"	4
1.00"	15'-0.00"	4
1.00"	20'-0.00"	4
1.00"	21'-0.00"	4



70' STRUCTURE EMBEDMENT

NOTES:

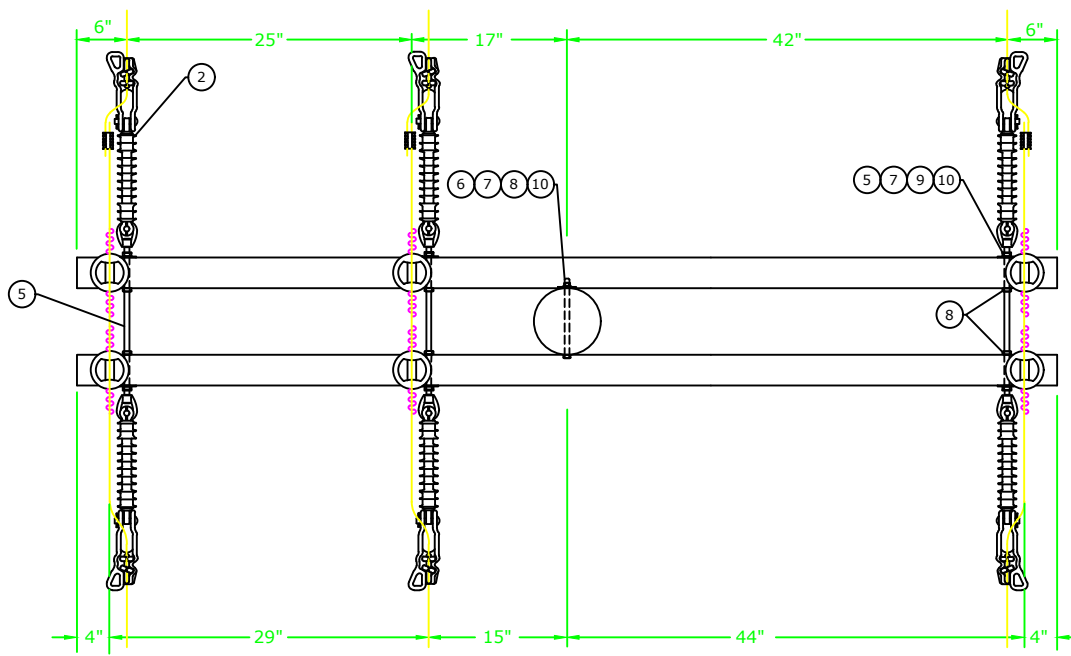
- DRAWING IS NOT TO SCALE. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.
- ANGLE FIBER DEADENDS WILL BE FIELD DRILLED TO APPROPRIATE ANGLE AND ATTACHED WITH EYE BOLTS.



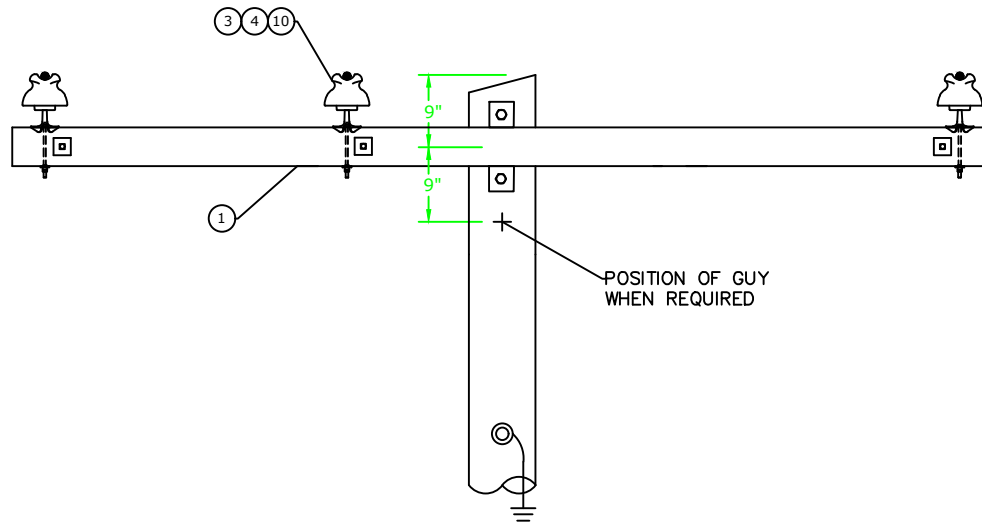
DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	1	OHGW ASSEMBLY, TANGENT	-	TM-4A		CIRCUIT 15, STRUCTURE 4 115 KV 3 PHASE, Z-FRAME STRUCTURE, TANGENT, POST INSULATORS		
2	1	OHGW GROUNDING ASSEMBLY	-	TM-9X(S)				
3	3	115 KV POST INSULATOR, TANGENT	-	TM-3DM				
4	4	BOLT, MACHINE, 3/4" x 20"	-					
5	2	BOLT, MACHINE, 3/4" x 22"	-		DWN. JLS		DATE: 11/25/2019	
6	6	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-		CKD. KW		APPD. KW	
7	6	SPRING LOCK WASHER, 3/4"	-		SCALE: N.T.S.			
8	6	NUT, 3/4"	-		DATE	REVISION	DATE	REVISION
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9	10/08/2020	A		

DWG. NO.

TPZ1



PLAN VIEW

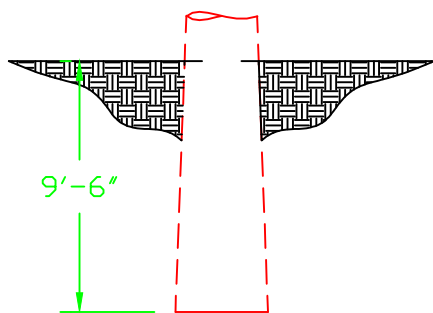


FRONT VIEW

NOTES:

1. GROUNDS ARE TO STOP AT THE NEUTRAL POSITION EXCEPT TO RISE TO A LIGHTNING ARRESTER OR TRANSFORMER.
2. ALL GUYS MUST CONTAIN A GUY STRAIN INSULATOR SUFFICIENT TO PROVIDE TWO FEET OF AIR CLEARANCE.

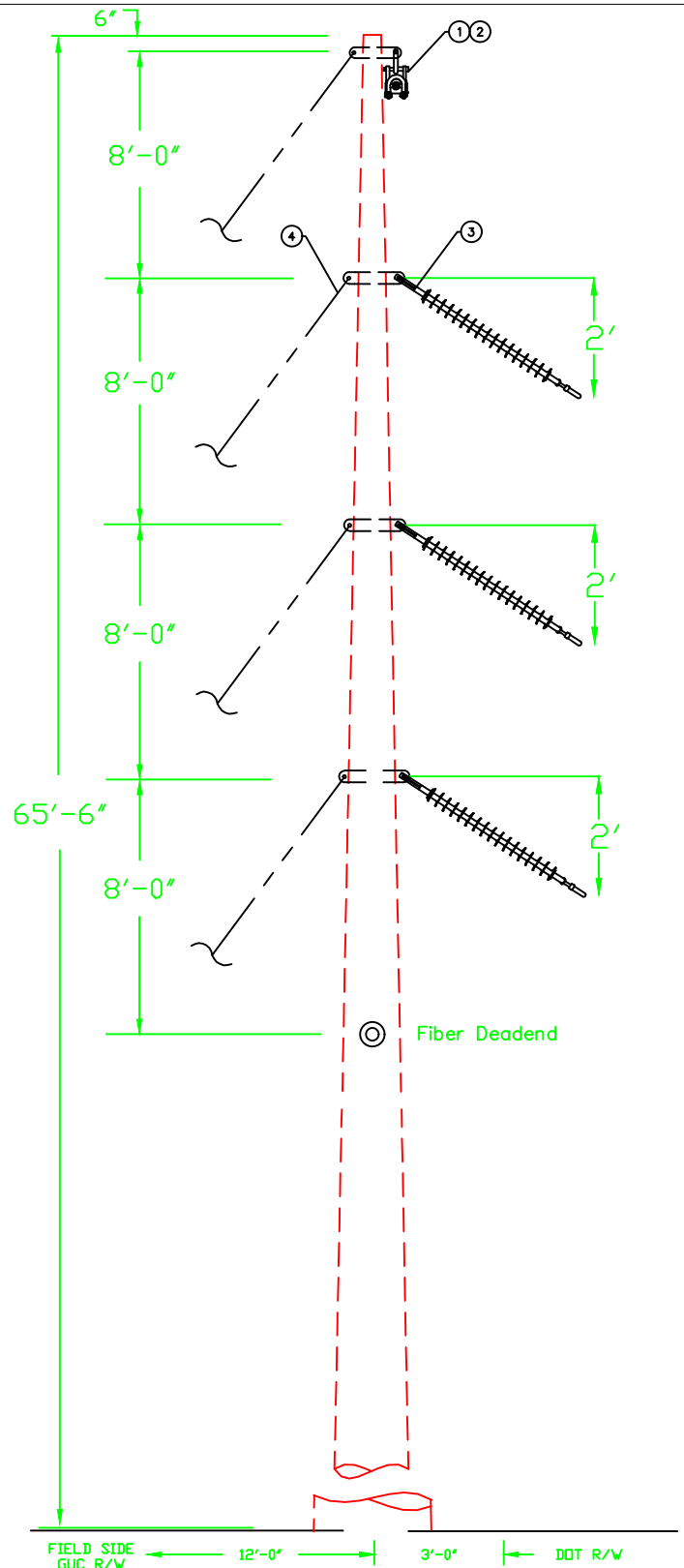
DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA							
	ea.	DESCRIPTION	ITEM	DET.		CKT 15 STRUCTURE 5 115 KV 3 PHASE, VERTICAL STRUCTURE, SMALL ANGLE POST, W/DISTRIBUTION UB						
1	2	8' DISTRIBUTION CROSSARM DE	—									
2	6	DEAD END ASSEMBLY, SECONDARY	—									
3	6	25 KV PIN INSULATOR	—									
4	6	25 KV PINS, LONG SHANK CROSS	—									
5	3	BOLT, DOUBLE ARMING 5/8" x 32"	—			DWN. JLS		DATE: 02/13/20		DWG. NO. TPVD2.C6		
6	2	BOLT, MACHINE 5/8" x 20"	—			CKD. KW		APPD. KW				
7	8	SPRING LOCK WASHER, 5/8"	—			SCALE: N.T.S.		PAGE 2 OF 2				
8	8	NUT, 5/8"	—			DATE	REVISION	DATE	REVISION			
9	6	NUT, EYE 5/8"	—									
10	14	WASHER, SQUARE, 3 x 3 x 1/4" w/ 13/16"	—									



75' Structure Embedment

NOTES:

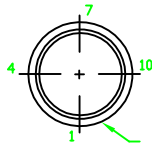
1. DRAWING IS NOT TO SCALE. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.
2. FIBER DEADEND WILL BE FIELD DRILLED TO APPROPRIATE ANGLE



DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	1	OHGW ASSEMBLY, ANGLE	-	TM-4A				
2	1	OHGW GROUNDING ASSEMBLY	-	TM-9X(S)				
3	3	ANGLE ASSEMBLY, PRIMARY	-	TM-1CM				
4	4	SINGLE DOWN GUY	-	TG-21A				
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9	DWN. JLS		DATE: 11/25/19	
	4	ANCHOR ASSEMBLY, TRANSMISSION	-	TA-2H	CKD. KW		APPD. KW	
					SCALE: N.T.S.			
					DATE	REVISION	DATE	REVISION

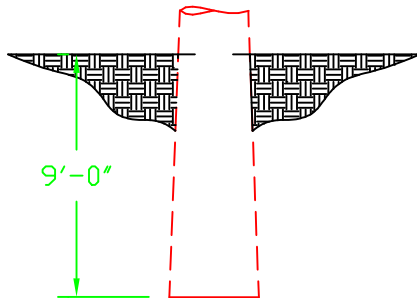
DWG. NO.

TSV3



THRU HOLE BORING DETAIL

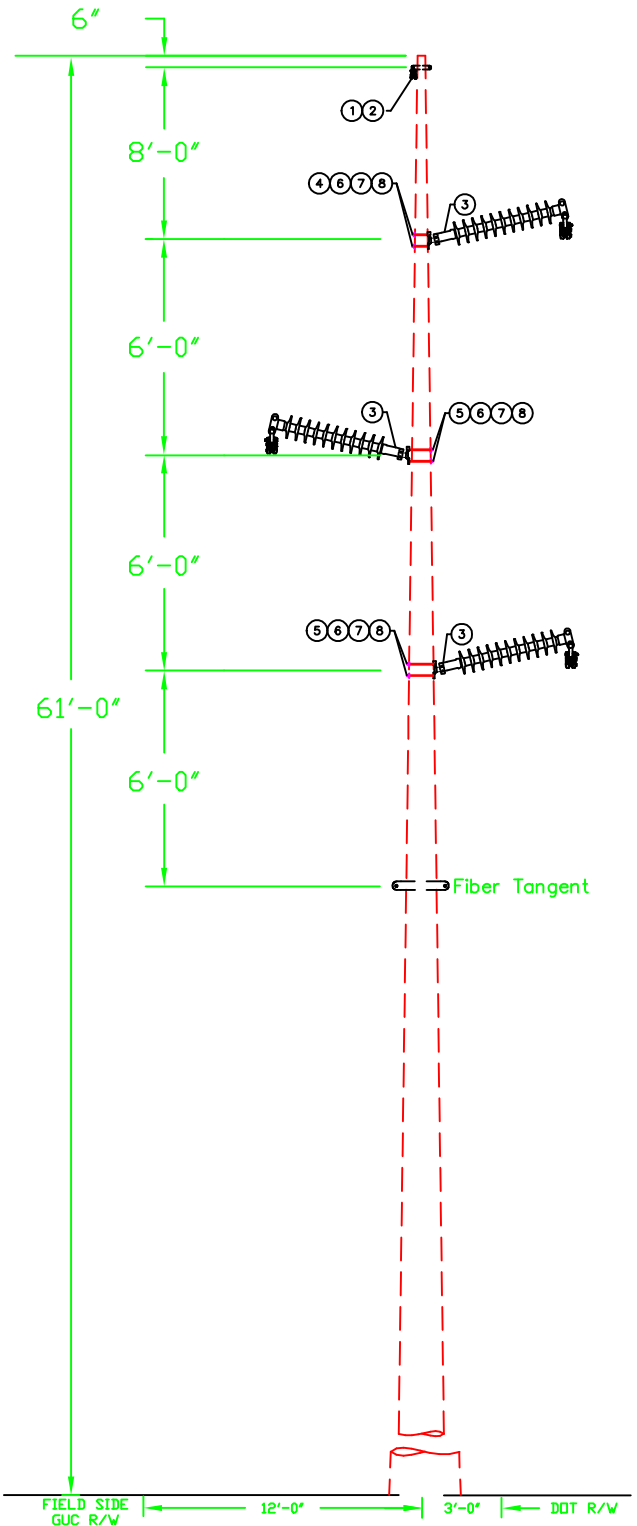
DIAMETER	FROM SMALL END	FLAT#
1.00"	8'-0.00"	4
1.00"	9'-0.00"	4
1.00"	14'-0.00"	4
1.00"	15'-0.00"	4
1.00"	20'-0.00"	4
1.00"	21'-0.00"	4



70' STRUCTURE EMBEDMENT

NOTES:

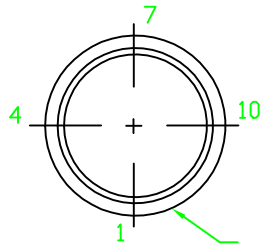
- DRAWING IS NOT TO SCALE. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.



DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	1	OHGW ASSEMBLY, TANGENT	-	TM-4A		CIRCUIT 15, STRUCTURE 7, 8, & 9 115 KV 3 PHASE, Z-FRAME STRUCTURE, TANGENT, POST INSULATORS		
2	1	OHGW GROUNDING ASSEMBLY	-	TM-9X(S)				
3	3	115 KV POST INSULATOR, TANGENT	-	TM-3DM				
4	2	BOLT, MACHINE, 3/4" x 18"	-					
5	4	BOLT, MACHINE, 3/4" x 20"	-		DWN. JLS		DATE: 11/25/2019	
6	6	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-		CKD. KW		APPD. KW	
7	6	SPRING LOCK WASHER, 3/4"	-		SCALE: N.T.S.			
8	6	NUT, 3/4"	-		DATE	REVISION	DATE	REVISION
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9	10/08/2020	A		

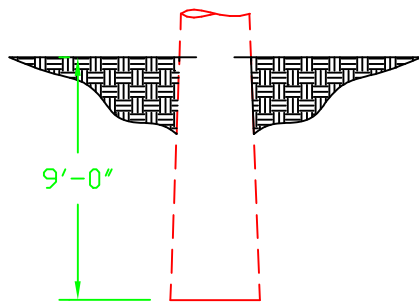
DWG. NO.

TPZ1



THRU HOLE BORING DETAIL

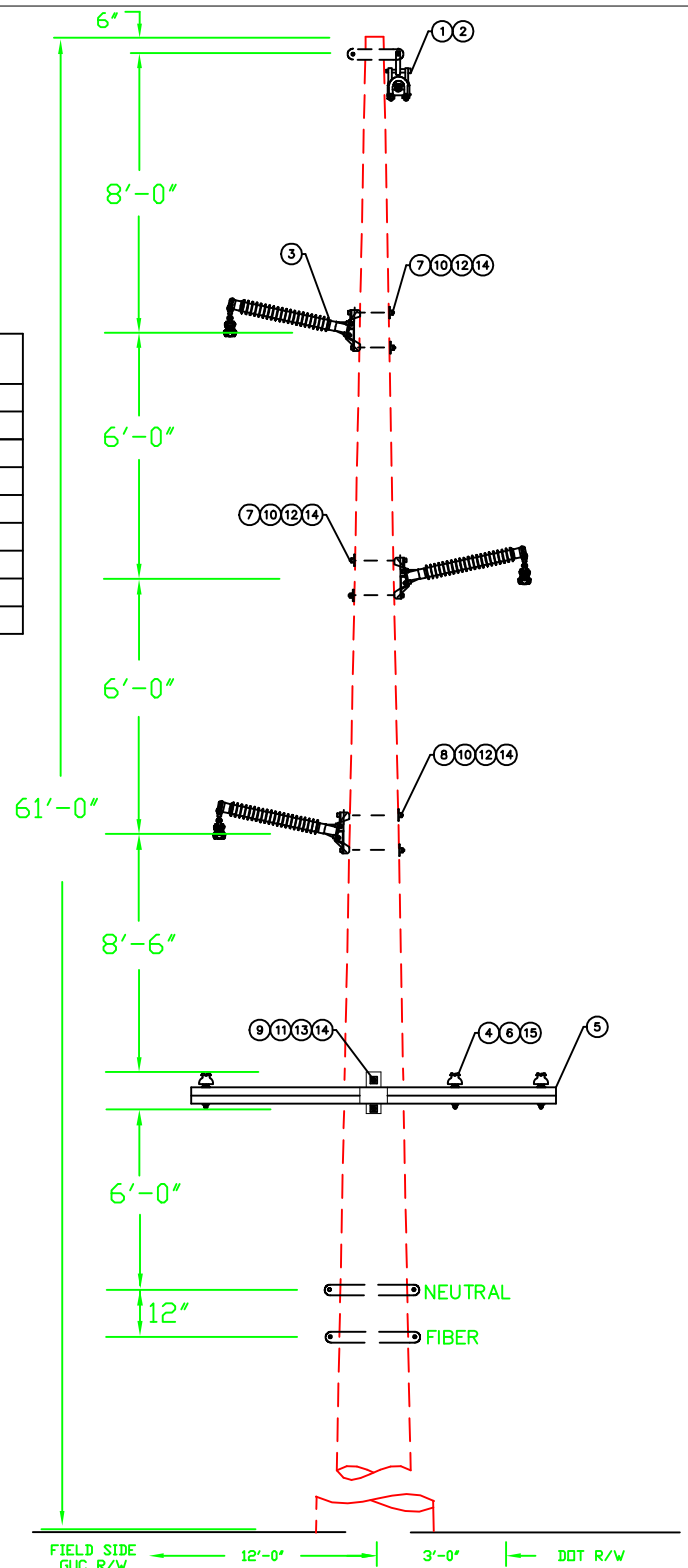
DIAMETER	FROM SMALL END	FLAT#
1.00"	8'-0"	4
1.00"	9'-0"	4
1.00"	14'-0"	4
1.00"	15'-0"	4
1.00"	20'-0"	4
1.00"	21'-0"	4
0.75"	29'-0"	1
0.75"	30'-0"	1



70' Structure Embedment

NOTES:

- 1) DRAWING IS NOT TO SCALE.
- 2) ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.



GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



CKT 15 STRUCTURE 11-14
115 KV 3 PHASE, Z-FRAME STRUCTURE,
TANGENT POST, W/DISTRIBUTION UB

DWG. REF.	LIST OF MATERIALS			
	ea.	DESCRIPTION	ITEM	DET.
1	1	OHGW ASSEMBLY, TANGENT	-	TM-4A
2	2	OHGW/NEUTRAL GROUNDING ASSY	-	TM-9X(S)
3	3	115 KV POST INSULATOR, TANGENT	-	TM-3DM
4	3	25 KV POST INSULATOR	-	
5	1	8' DISTRIBUTION CROSSARM	-	
6	3	PINS, 25 KV CROSS	-	
7	4	BOLT, MACHINE, 3/4" x 20"	-	
8	2	BOLT, MACHINE, 3/4" x 22"	-	
9	2	BOLT, MACHINE, 5/8" x 20"	-	
10	6	SPRING LOCK WASHER, 3/4"	-	
11	2	SPRING LOCK WASHER, 5/8"	-	
12	6	NUT, 3/4"	-	
13	2	NUT, 5/8"	-	
14	8	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-	
15	3	WASHER, SQUARE, 3" x 3" x 1/4" w/ 13/16"	-	
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9

DWN. JLS
CKD. KW
SCALE: N.T.S.

DATE: 12/03/2019

APPD. KW

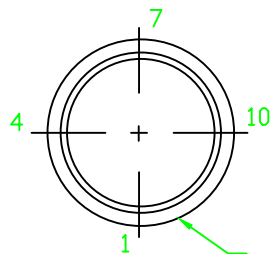
DWG. NO.

DATE: 10/08/2020
REVISION: A

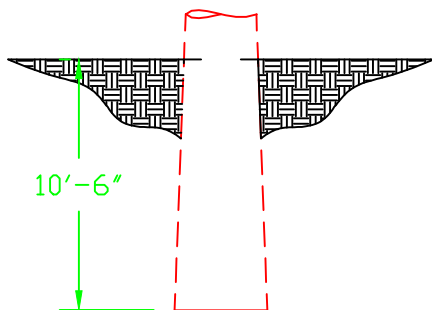
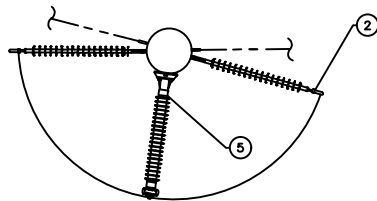
DATE:

REVISION:

TPZD1.C1



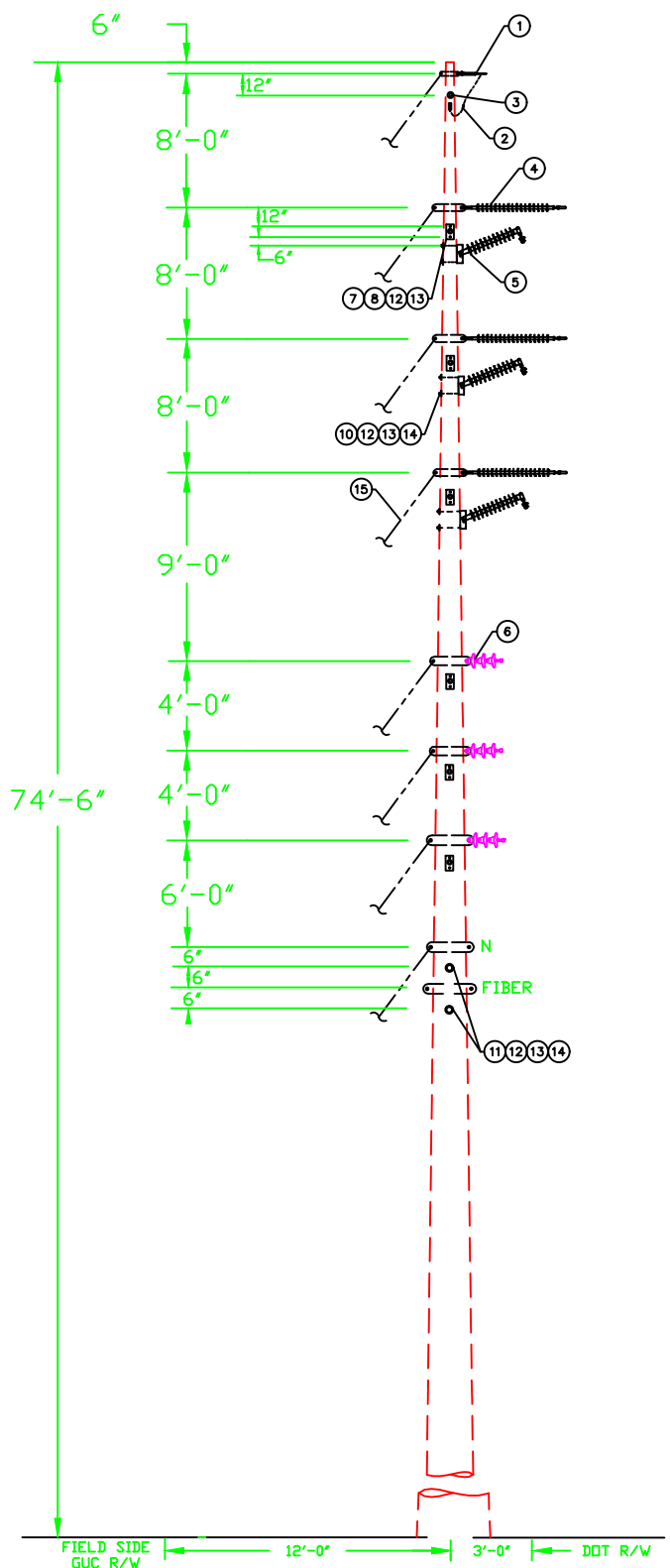
OVERHEAD VIEW



85' Structure Embedment

NOTE:

1. DRAWING IS NOT TO SCALE.
2. HOLES WILL BE FIELD DRILLED TO APPROPRIATE ANGLE.
3. GUYS OPPOSITE EACH CONDUCTOR DEADEND.



DWG. REF.	LIST OF MATERIALS			
	ea.	DESCRIPTION	ITEM	DET.
1	2	OHGW ASSEMBLY, DEADEND	-	TM-4E
2	2	OHGW GROUNDING/NEUTRAL ASSEMBLY	-	TM-2B
3	1	SINGLE BOLT OHGW SUPPORT	-	
4	6	DEADEND ASSEMBLY, PRIMARY	-	TM-1EM
5	3	115 KV POST INSULATOR, TANGENT	-	TM-3DM
6	6	DEADEND ASSEMBLY, SECONDARY	-	
7	13	GUY PLATE, TRANSMISSION	-	TG-27D
8	5	BOLT, MACHINE, 3/4" x 18"	-	
9	8	BOLT, MACHINE, 3/4" x 20"	-	
10	6	BOLT, MACHINE, 3/4" x 22"	-	
11	2	EYE BOLT, MACHINE, 3/4" x 20"	-	
12	9	SPRING LOCK WASHER, 3/4"	-	
13	9	NUT, 3/4"	-	
14	9	WASHER SQUARE, 4"x4"x1/4", w/13/16"	-	
15	16	SINGLE DOWN GUY	-	TG-21A
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9
	14	ANCHOR ASSEMBLY, TRANSMISSION	-	TA-2H

GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
CIRCUIT 15 STRUCTURE 15 115 KV 3 PHASE, VERTICAL STRUCTURE, SMALL ANGLE DOUBLE DEADEND SUSPENSION, W/POST			
DWN. JLS		DATE: 08/21/20	
CKD. KW		APPD. KW	
SCALE: N.T.S.			
DATE	REVISION	DATE	REVISION

DWG. NO.
TSVD6.V6



NOTES:

- [illegible]

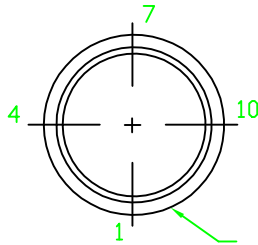
DWG. REF.	LIST OF MATERIALS			
	ea.	DESCRIPTION	ITEM	
1	2	OHGW ASSEMBLY, DEADEND	—	DET.
2	2	OHGW/NEUTRAL GROUNDING ASSEMBLY	—	TM—4E
3	3	4' DAVIT ARM *SEE NOTE 2	—	TM—2B
4	9	DEADEND ASSEMBLY, PRIMARY	—	
5	3	DEADEND ASSEMBLY SECONDARY	—	TM—1EM
6	1	8' DISTRIBUTION CROSSARM DE	—	
7	2	BOLT, MACHINE, 1" x 20"	—	
8	4	BOLT, MACHINE, 1" x 22"	—	
9	2	BOLT, MACHINE, 5/8" x 20"	—	
10	6	SPRING LOCK WASHER, 1"	—	
11	2	SPRING LOCK WASHER, 5/8"	—	
12	6	NUT, 1"	—	
13	2	NUT, 5/8"	—	
14	2	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	—	
15	6	WASHER, SQUARE, 4" x 4" x 1/4" w/ 1-3/16"	—	
16	11	SINGLE DOWN GUY	—	TG—21A
	1	DRIVEN GROUND ROD ASSEMBLY	—	TM—9
	10	ANCHOR ASSEMBLY TRANSMISSION	—	TA—2H

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



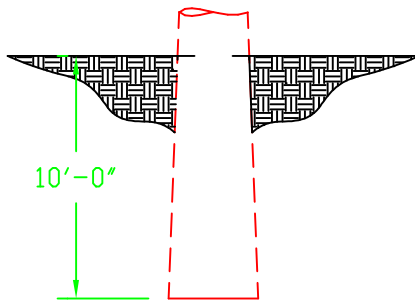
CKT 15 STRUCTURE 16
115 KV 3 PHASE, VERTICAL DOUBLE CIRCUIT
STRUCTURE, LARGE ANGLE, DOUBLE DEADEND,
DISTRIBUTION ON CROSSARM

DWN. JLS		DATE: 08/21/2020		DWG. NO.
CKD. KW		APPD. KW		
SCALE: N.T.S.				
DATE	REVISION	DATE	REVISION	TSVD4.C5.2
10/08/2020	A			



THRU HOLE BORING DETAIL

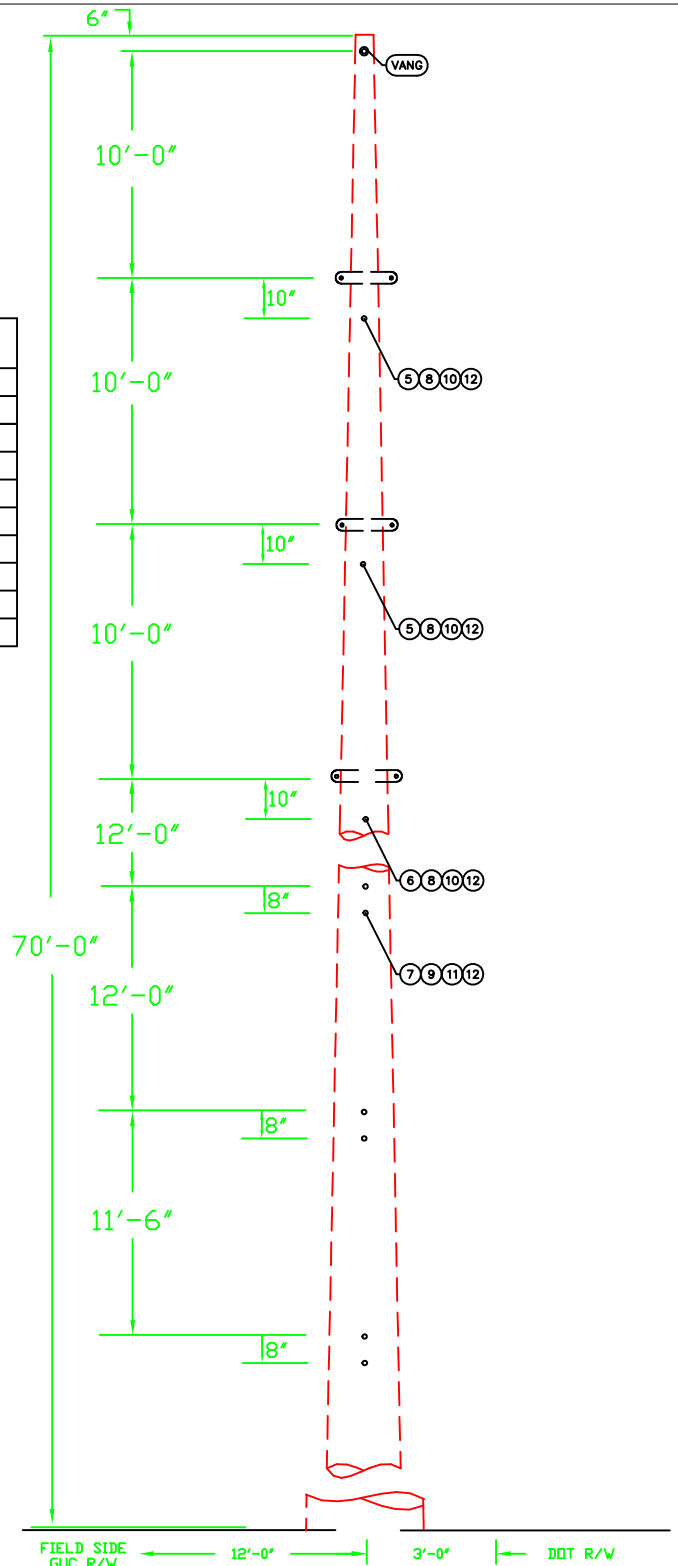
DIAMETER	FROM SMALL END	FLAT#
1.00"	11'-4.00"	1
1.00"	21'-4.00"	1
1.00"	31'-4.00"	1
0.75"	42'-6.00"	1
0.75"	43'-2.00"	1
0.75"	54'-6.00"	1
0.75"	55'-2.00"	1
0.75"	66'-0.00"	1
0.75"	66'-8.00"	1



80' Structure Embedment

NOTES:

- DRAWING IS NOT TO SCALE. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.
- SEE SWITCH DRAWING FOR SWITCH DETAILS



DWG. REF.	LIST OF MATERIALS			
	eq.	DESCRIPTION	ITEM	DET.
1	1	OHGW ASSEMBLY, TANGENT	-	TM-4A
2	1	OHGW GROUNDING ASSEMBLY	-	TM-9X(S)
3	6	DEADEND ASSEMBLY, PRIMARY	-	TM-1EM
4	1	GANG SWITCH	-	
5	2	BOLT MACHINE, 3/4" x 22"	-	
6	1	BOLT MACHINE, 3/4" x 24"	-	
7	6	BOLT MACHINE, 5/8" x 22"	-	
8	3	SPRING LOCK WASHER, 3/4"	-	
9	6	SPRING LOCK WASHER 5/8"	-	
10	3	NUT, 3/4"	-	
11	6	NUT, 5/8"	-	
12	9	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-	
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9



GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA

CIRCUIT 15 STRUCTURE 17
115 KV 3 PHASE, VERTICAL STRUCTURE DOUBLE
DEADEND TANGENT, W GANG SWITCH

DWN. JLS

DATE: 01/24/2020

CKD. KW

APPD. KW

SCALE: N.T.S.

DATE

REVISION

DATE

REVISION

10/08/2020

A

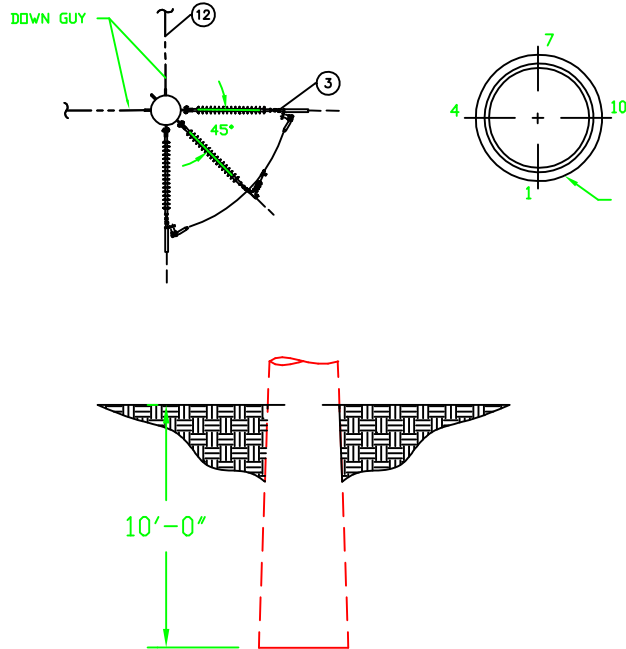
DWG. NO.

TSV6.16

THRU HOLE BORING DETAIL

DIAMETER	FROM SMALL END	FLAT#
0.75"	33'-6"	4
0.75"	33'-11"	4
0.75"	37'-6"	4
0.75"	37'-11"	4
0.75"	41'-6"	4
0.75"	41'-11"	4

OVERHEAD VIEW

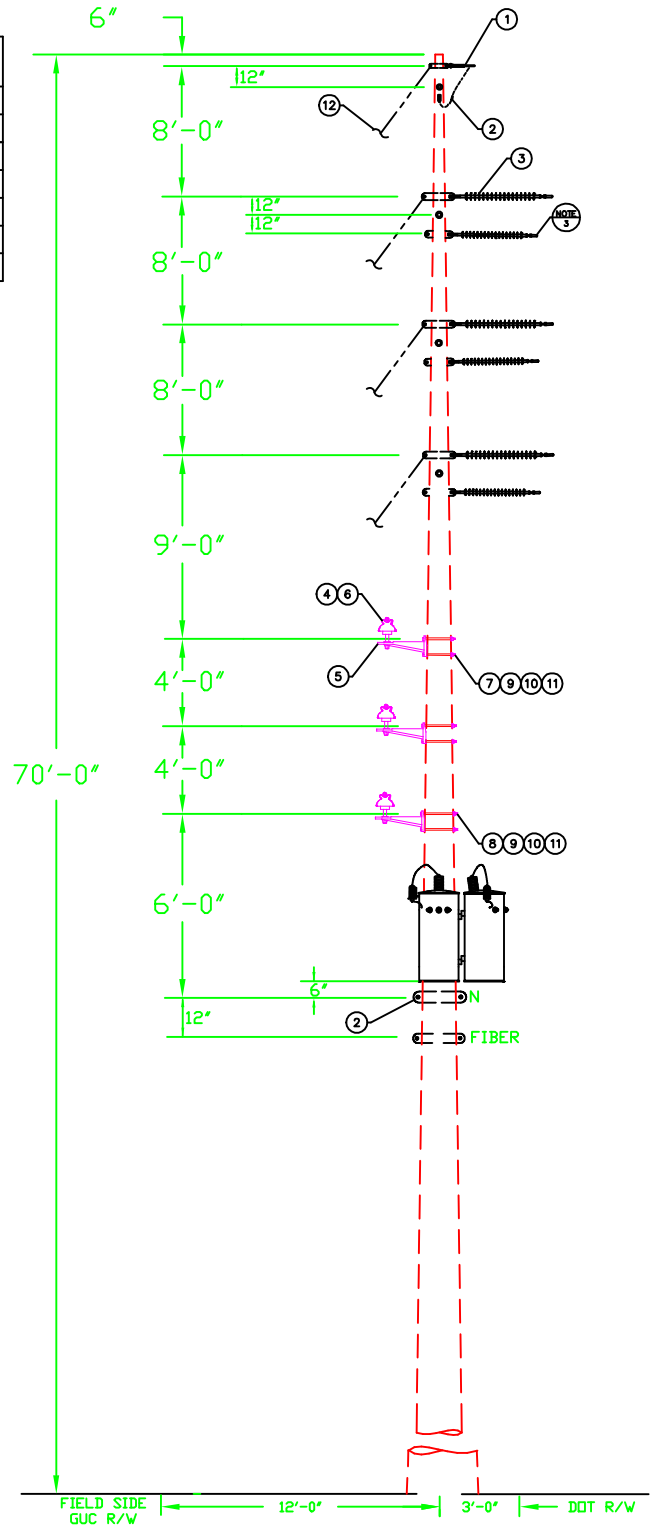


80' Structure Embedment

NOTE:

1. DRAWING IS NOT TO SCALE.
2. GUYS OPPOSITE EACH CONDUCTOR DEADEND.
3. SEE OVERHEAD VIEW FOR VANG ANGLE.

DWG. REF.	LIST OF MATERIALS			
	eq.	DESCRIPTION	ITEM	DET.
1	2	OHGW ASSEMBLY, DEADEND	-	TM-4E
2	2	OHGW/NEUTRAL GROUNDING ASSEMBLY	-	TM-2B
3	9	DEADEND ASSEMBLY, PRIMARY	-	TM-1EM
4	3	15 kV PIN INSULATOR	-	
5	3	BRACKETS, MIF	-	
6	3	PIN, SHANK	-	
7	4	BOLT, MACHINE, 5/8" x 18"	-	
8	2	BOLT, MACHINE, 5/8" x 20"	-	
9	6	SPRING LOCK WASHER, 5/8"	-	
10	6	NUT, 5/8"	-	
11	6	WASHER, 2 1/4" SQUARE	-	
12	8	SINGLE DOWN GUY	-	TG-21A
	8	ANCHOR ASSEMBLY, TRANSMISSION	-	TA-2H
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9

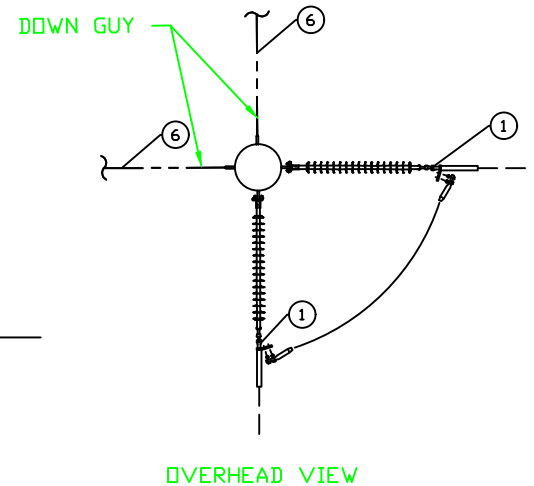
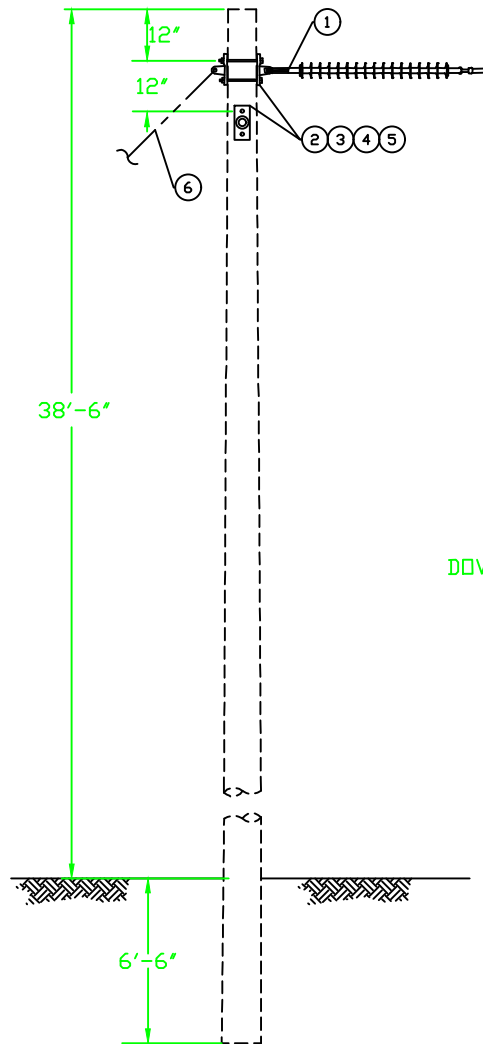


GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



CIRCUIT 15 STRUCTURE 18
115 KV 3 PHASE, VERTICAL STRUCTURE, LARGE
ANGLE DOUBLE DEADEND SUSPENSION, DIST UB

DWN. JLS		DATE: 12/06/2019		DWG. NO. TSVD4.V1.8
CKD. KW		APPD. KW		
SCALE: N.T.S.				
DATE	REVISION	DATE	REVISION	
10/08/2020	A			

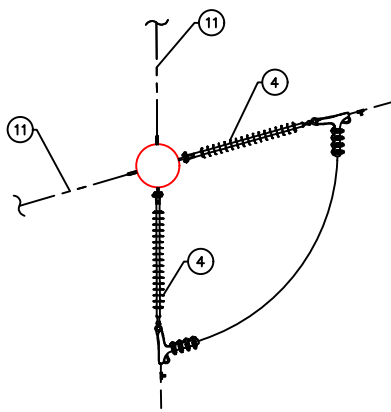


45' STRUCTURE

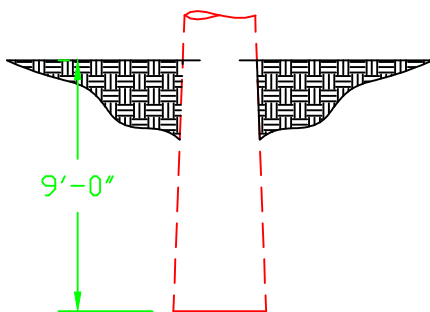
NOTES:

1. DOWN GUYS OPPOSITE OF EACH CONDUCTOR.
2. ANGLE BETWEEN CONDUCTOR ATTACHMENTS WILL BE DETERMINED AND DRILLED IN THE FIELD.
3. DRAWING NOT TO SCALE

DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	2	DEAD END ASSEMBLY, PRIMARY	-	TM-1EM		CIRCUIT 16, STRUCTURE 1 115 KV 3 PHASE 3 POLE STRUCTURE LARGE ANGLE, DOUBLE DEADEND		
2	4	GUY PLATE, TRANSMISSION	-	TG-27D				
3	4	BOLT, MACHINE, 3/4" x 14"	-					
4	4	SPRING LOCK WASHER, 3/4"	-					
5	4	NUT, 3/4"	-		DWN. JLS	DATE: 11/01/19	DWG. NO. TST4	
6	2	SINGLE DOWN GUY	-	TG-21A	CKD. KW	APPD. KW		
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9	SCALE: N.T.S.			
	2	ANCHOR ASSEMBLY, TRANSMISSION	-	TA-2H	DATE	REVISION	DATE	REVISION



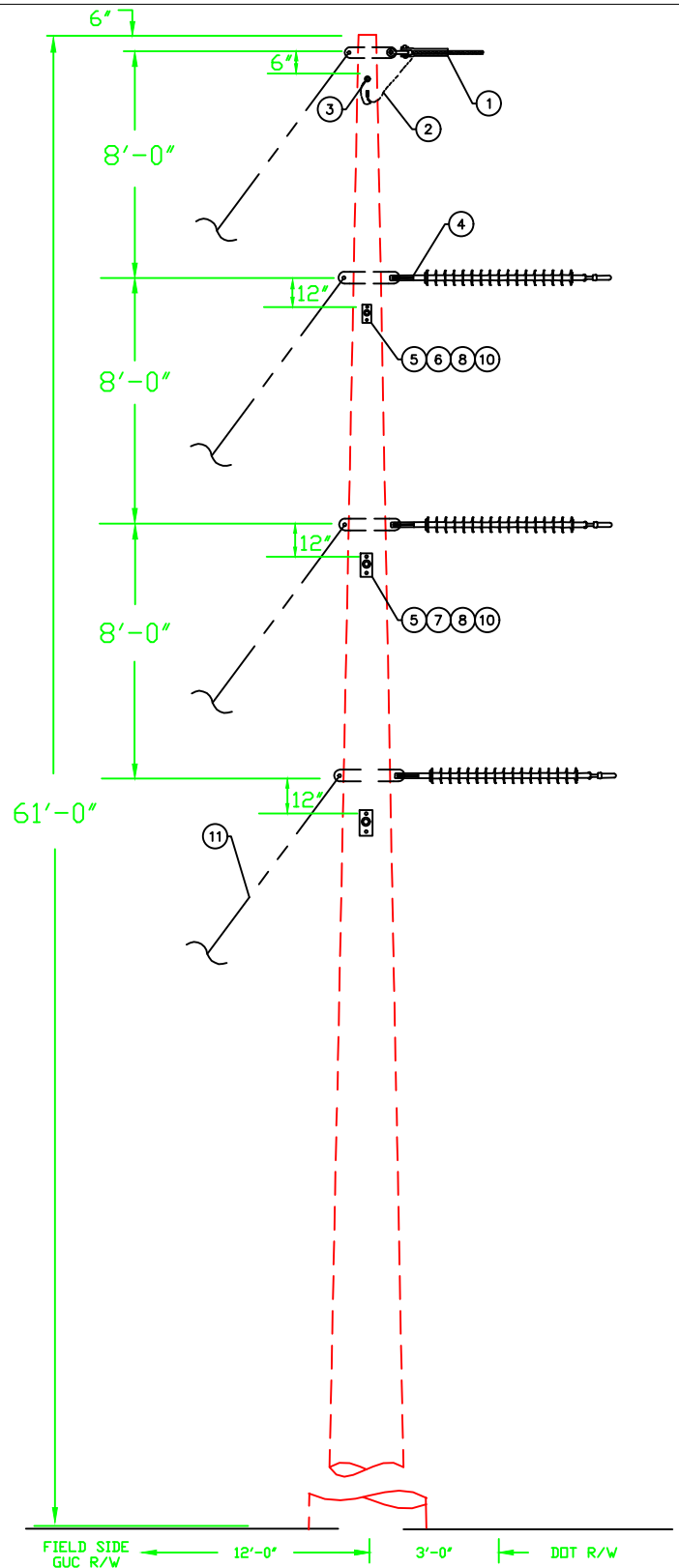
OVERHEAD VIEW



70' Structure Embedment

NOTE:

1. ANGLE BETWEEN CONDUCTOR ATTACHMENTS WILL BE DETERMINED AND DRILLED IN THE FIELD.
2. DRAWING IS NOT TO SCALE.

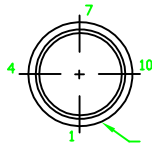


DWG. REF.	LIST OF MATERIALS			
	ea.	DESCRIPTION	ITEM	DET.
1	2	OHGW ASSEMBLY, DEADEND	-	TM-4E
2	1	OHGW GROUNDING ASSEMBLY	-	TM-2B
3	1	SINGLE BOLT OHGW SUPPORT	-	TM-6A(S)
4	6	DEADEND ASSEMBLY, PRIMARY	-	TM-1EM
5	7	GUY PLATE, TRANSMISSION	-	TG-27D
6	3	BOLT, MACHINE 3/4" x 14"	-	
7	4	BOLT, MACHINE 3/4" x 16"	-	
8	6	NUT, 3/4"	-	
9	1	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-	
10	7	SPRING LOCK WASHER, 3/4"	-	
11	8	SINGLE DOWN GUY	-	TG-21A
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9
	8	ANCHOR ASSEMBLY, TRANSMISSION	-	TA-2H



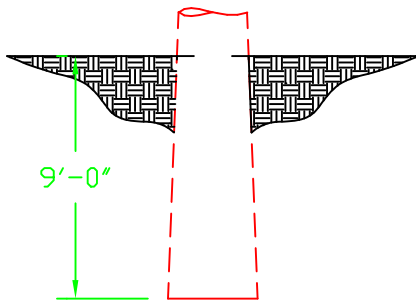
DWN. JLS		DATE: 08/21/20		DWG. NO.
CKD. KW		APPD. KW		
SCALE: N.T.S.				
DATE	REVISION	DATE	REVISION	TSV4

DWG. NO.
TSV4



THRU HOLE BORING DETAIL

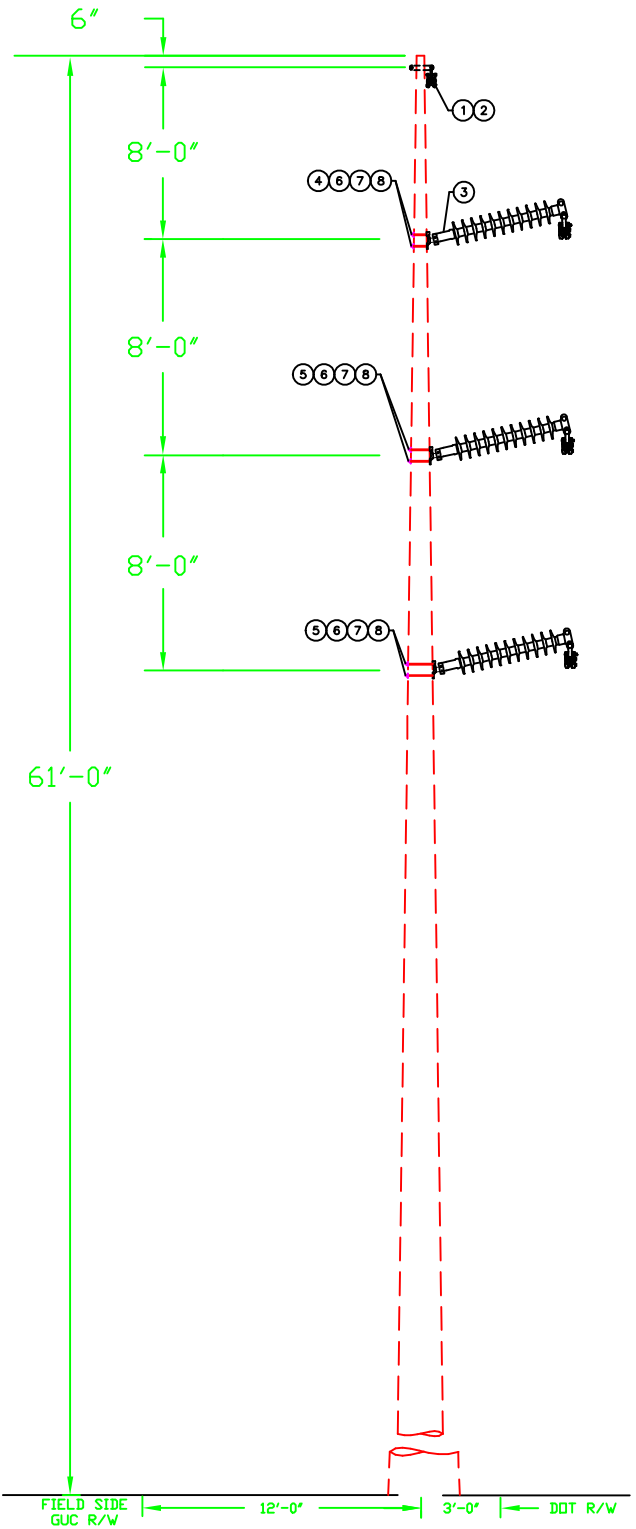
DIAMETER	FROM SMALL END	FLAT#
1.00"	8'-0"	4
1.00"	9'-0"	4
1.00"	16'-0"	4
1.00"	17'-0"	4
1.00"	24'-0"	4
1.00"	25'-0"	4



70' STRUCTURE EMBEDMENT

NOTES:

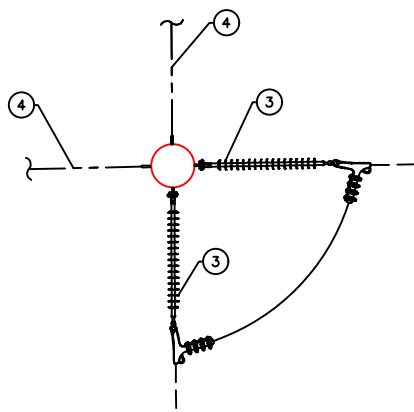
1. DRAWING IS NOT TO SCALE.
2. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.



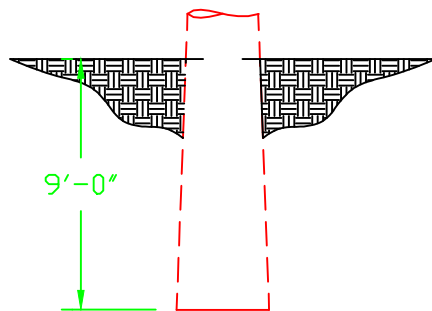
DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	1	OHGW ASSEMBLY, TANGENT	-	TM-4A				
2	1	OHGW GROUNDING ASSEMBLY	-	TM-9X(S)				
3	3	115 KV POST INSULATOR, TANGENT	-	TM-3DM				
4	2	BOLT, MACHINE, 3/4" x 18"	-					
5	4	BOLT, MACHINE, 3/4" x 20"	-		DWN. JLS		DATE: 08/21/2020	
6	6	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-		CKD. KW		APPD. KW	
7	6	SPRING LOCK WASHER, 3/4"	-		SCALE: N.T.S.			
8	6	NUT, 3/4"	-		DATE	REVISION	DATE	REVISION
					10/08/2020	A		

CIRCUIT 16, STRUCTURE 3
115 KV 3 PHASE, VERTICAL STRUCTURE,
TANGENT, POST INSULATORS

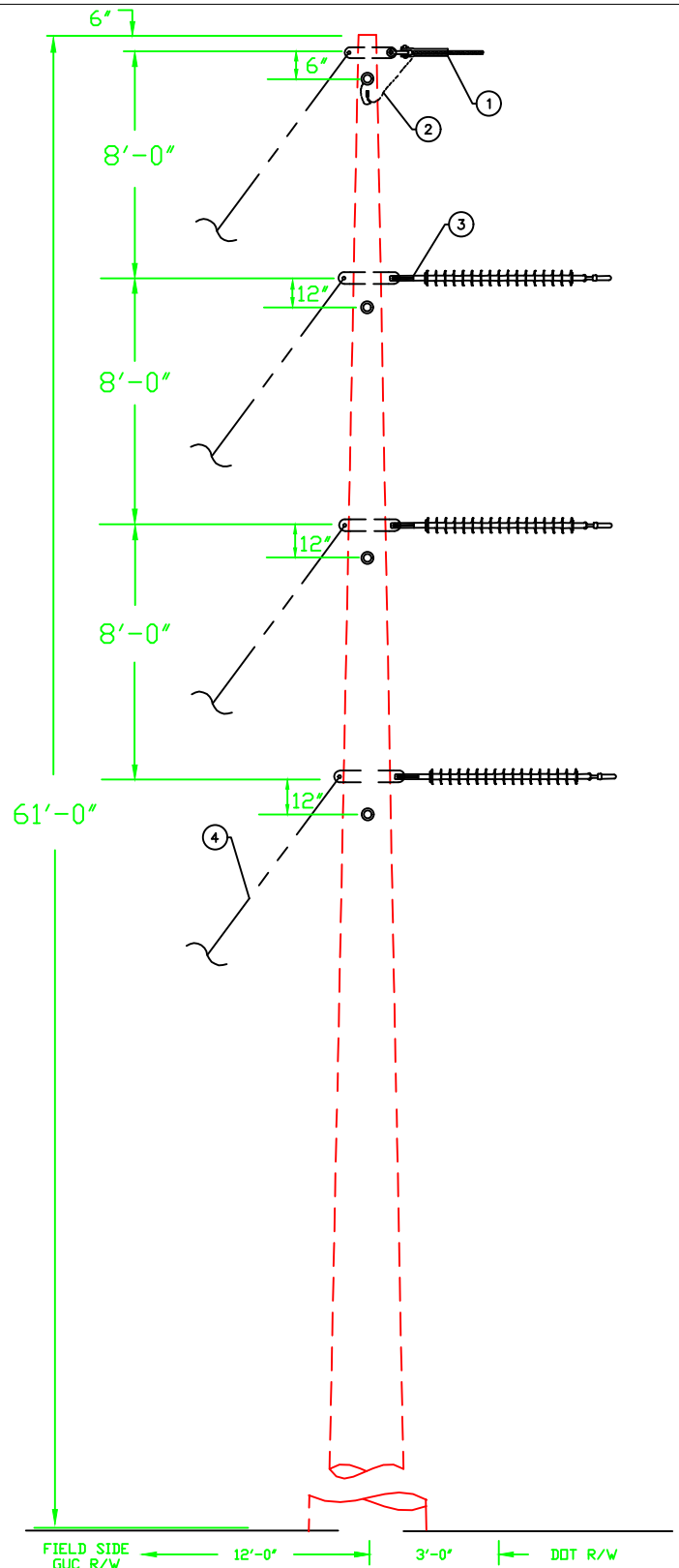
DWG. NO.
TPV1



OVERHEAD VIEW



70' Structure Embedment



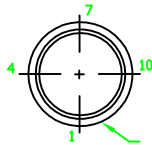
NOTES:

1. DRAWING IS NOT TO SCALE.
2. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.

DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	2	OHGW ASSEMBLY, DEADEND	-	TM-4E	 CIRCUIT 16, STRUCTURE 4 115 KV 3 PHASE, VERTICAL STRUCTURE LARGE ANGLE, DOUBLE DEADEND SUSPENSION			
2	1	OHGW GROUNDING ASSEMBLY	-	TM-2B				
3	6	DEADEND ASSEMBLY, PRIMARY	-	TM-1EM				
4	8	SINGLE DOWN GUY	-	TG-21A				
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9				
	8	ANCHOR ASSEMBLY, TRANSMISSION	-	TA-2H				
					DWN. JLS		DATE: 11/8/19	
					CKD. KW		APPD. KW	
					SCALE: N.T.S.			
					DATE	REVISION	DATE	REVISION

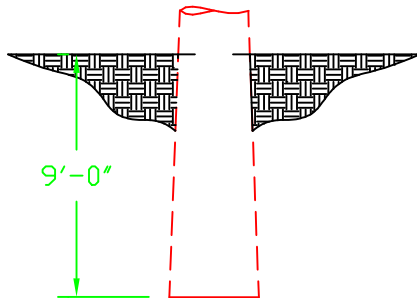
DWG. NO.

TSV4



THRU HOLE BORING DETAIL

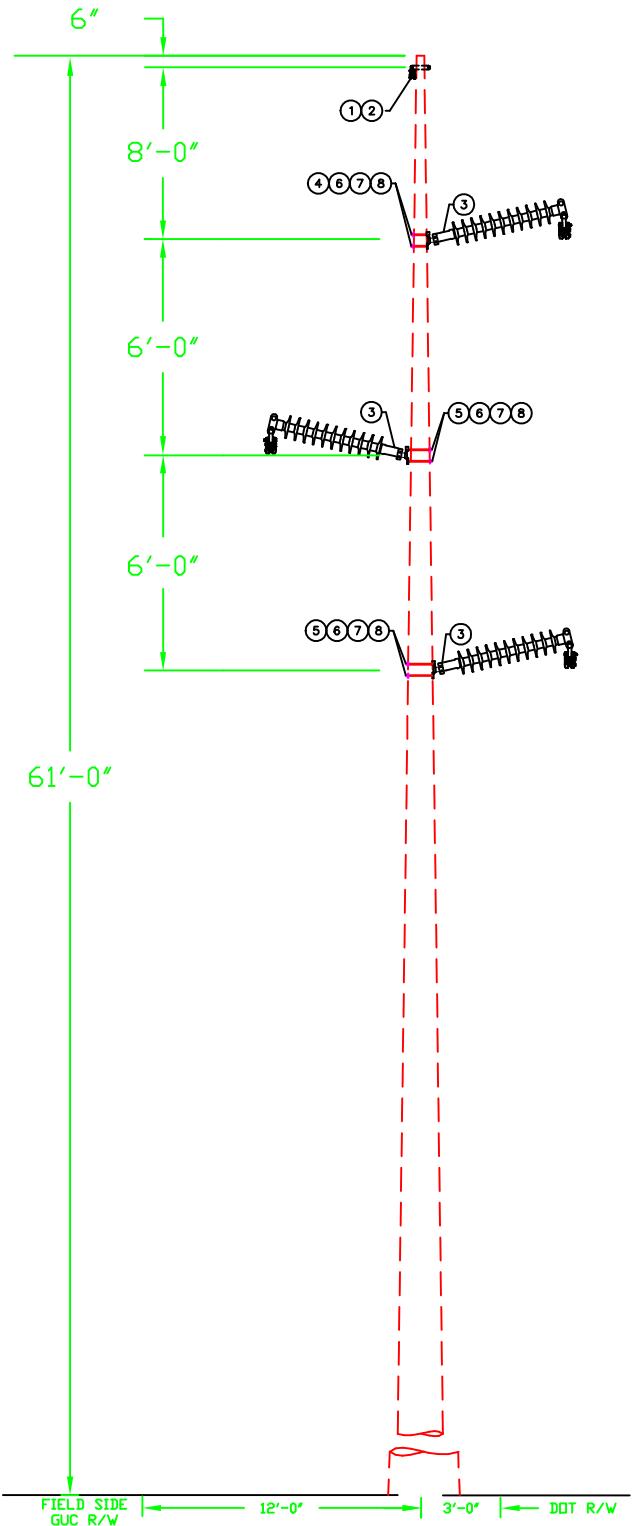
DIAMETER	FROM SMALL END	FLAT#
1.00"	8'-0.00"	4
1.00"	9'-0.00"	4
1.00"	14'-0.00"	4
1.00"	15'-0.00"	4
1.00"	20'-0.00"	4
1.00"	21'-0.00"	4



70' STRUCTURE EMBEDMENT

NOTES:

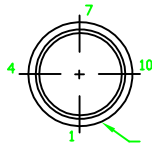
- DRAWING IS NOT TO SCALE. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.



DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	1	OHGW ASSEMBLY, TANGENT	-	TM-4A				
2	1	OHGW GROUNDING ASSEMBLY	-	TM-9X(S)				
3	3	115 KV POST INSULATOR, TANGENT	-	TM-3DM				
4	2	BOLT, MACHINE, 3/4" x 18"	-					
5	4	BOLT, MACHINE, 3/4" x 20"	-		DWN. JLS		DATE: 11/13/2019	
6	6	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-		CKD. KW		APPD. KW	
7	6	SPRING LOCK WASHER, 3/4"	-		SCALE: N.T.S.			
8	6	NUT, 3/4"	-		DATE	REVISION	DATE	REVISION
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9	10/08/2020	A		

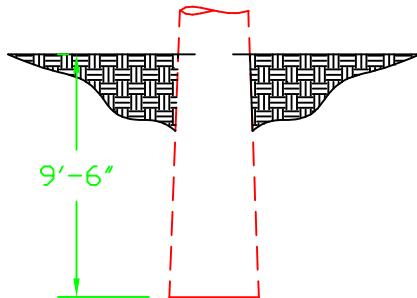
DWG. NO.

TPZ1



THRU HOLE BORING DETAIL

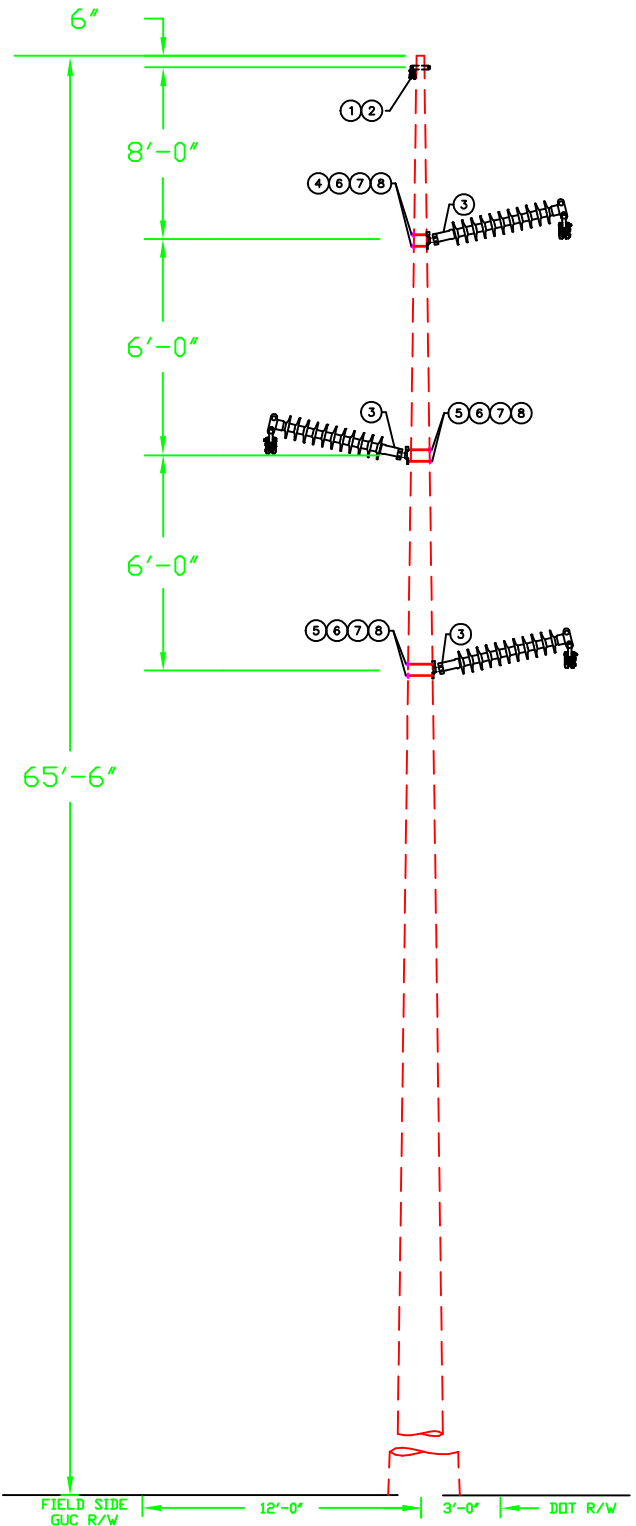
DIAMETER	FROM SMALL END	FLAT#
1.00"	8'-0.00"	4
1.00"	9'-0.00"	4
1.00"	14'-0.00"	4
1.00"	15'-0.00"	4
1.00"	20'-0.00"	4
1.00"	21'-0.00"	4



75' STRUCTURE EMBEDMENT

NOTES:

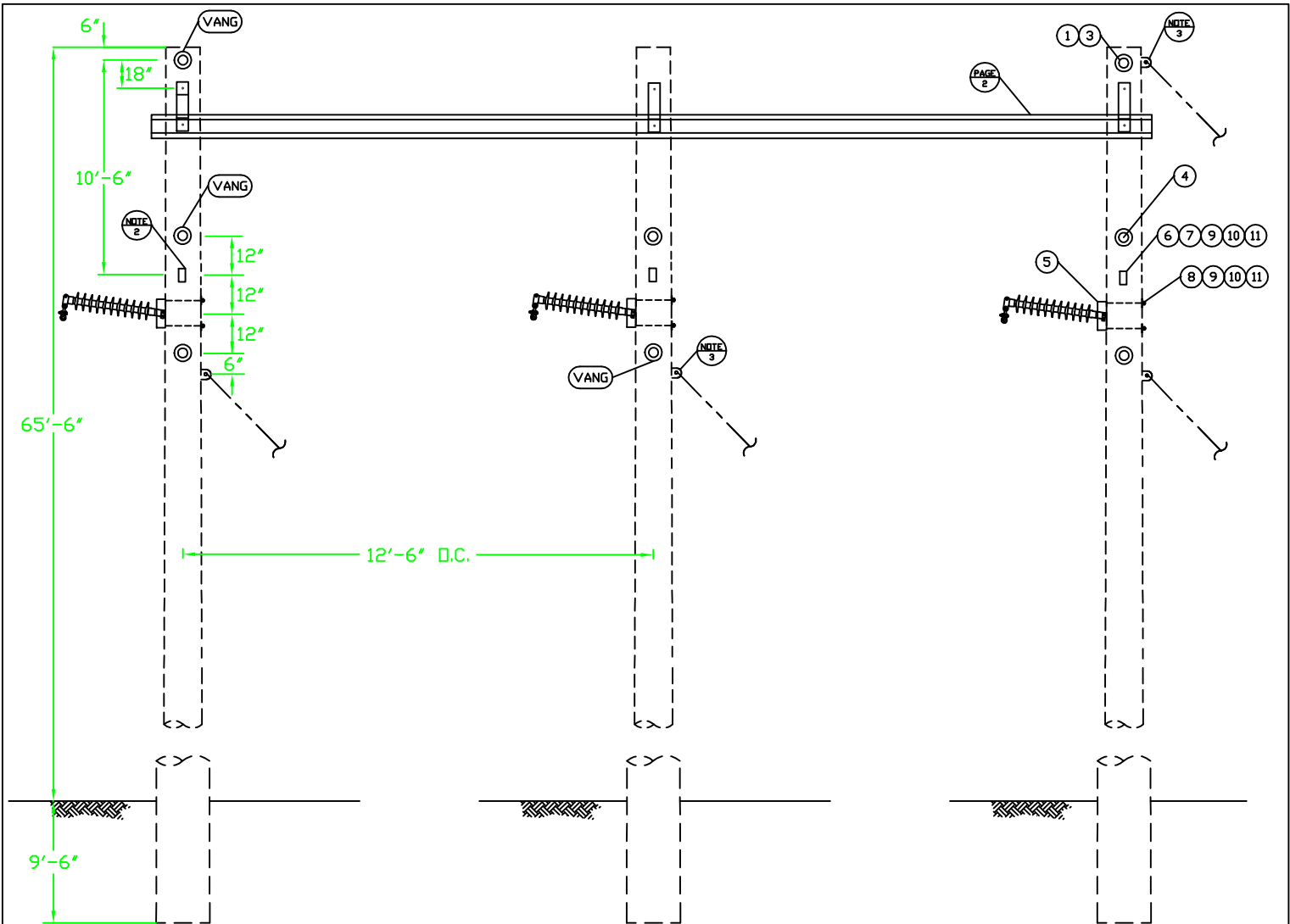
- DRAWING IS NOT TO SCALE. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.



DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	2	OHGW ASSEMBLY, TANGENT	-	TM-4A		CIRCUIT 16, STRUCTURE 7 115 KV 3 PHASE, Z-FRAME STRUCTURE, TANGENT, POST INSULATORS		
2	2	OHGW GROUNDING ASSEMBLY	-	TM-9X(S)				
3	3	115 KV POST INSULATOR, TANGENT	-	TM-3DM				
4	2	BOLT, MACHINE, 3/4" x 18"	-					
5	4	BOLT, MACHINE, 3/4" x 20"	-		DWN. JLS		DATE: 11/13/2019	
6	6	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-		CKD. KW		APPD. KW	
7	6	SPRING LOCK WASHER, 3/4"	-		SCALE: N.T.S.			
8	6	NUT, 3/4"	-		DATE	REVISION	DATE	REVISION
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9	10/08/2020	A		

DWG. NO.

TPZ1



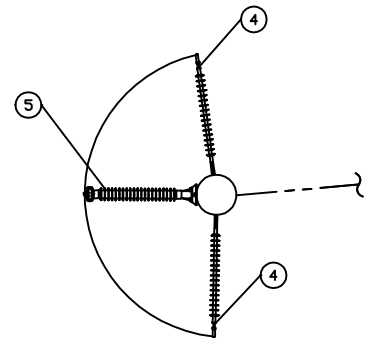
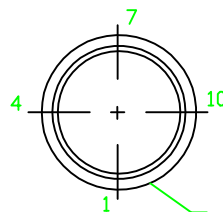
NOTES:

- DRAWING IS NOT TO SCALE.
- TRANSMISSION POLE EYE PLATE WILL BE FIELD DRILLED AT APPROPRIATE ANGLE FOR EACH CONDUCTOR AND STATIC.
- VANGS 10° CCW FROM FLAT 10.

THRU HOLE BORING DETAIL

DIAMETER	FROM SMALL END	FLAT#
1.25"	2'-0.00"	1
1.25"	3'-3.00"	1
1.00"	11'-6"	10
1.00"	12'-6"	10

DWG. REF.	LIST OF MATERIALS			
	ea.	DESCRIPTION	ITEM	DET.
1	4	OHGW ASSEMBLY, DEADEND	-	TM-4E
2	2	SINGLE BOLT OHGW SUPPORT	-	TM-6A(S)
3	2	OHGW/NEUTRAL GROUNDING ASSEMBLY	-	TM-2B
4	6	DEAD END ASSEMBLY, PRIMARY	-	TM-1EM
5	3	115 KV POST INSULATOR	-	TM-3DM
6	3	GUY PLATE, TRANSMISSION	-	TG-27
7	6	BOLT, MACHINE, 3/4" x 16"	-	
8	6	BOLT, MACHINE, 3/4" x 18"	-	
9	12	SPRING LOCK WASHER, 3/4"	-	
10	12	NUT, 3/4"	-	
11	12	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-	
12	4	SINGLE DOWN GUY	-	TG-21A
	3	DRIVEN GROUND ROD ASSEMBLY	-	TM-9
	4	ANCHOR ASSEMBLY, TRANSMISSION	-	TA-2H



TOP VIEW

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA

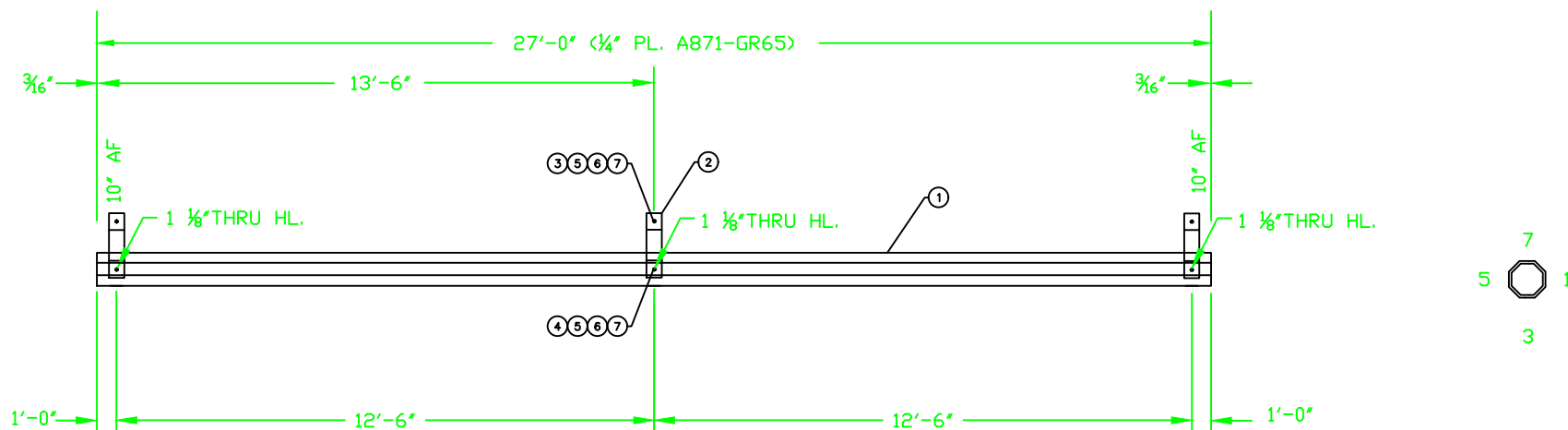


CIRCUIT 16 STRUCTURE 8 RIVER CROSSING
115 KV 3 PHASE 3 POLE DOUBLE CIRCUIT STRUCTURE
SMALL ANGLE, DOUBLE DEADEND

DWN. JLS		DATE: 11/22/2019		DWG. NO. TST6
CKD. KW		APPD. KW		
SCALE: N.T.S.		PAGE 1 OF 2		
DATE	REVISION	DATE	REVISION	
10/08/2020	A			

MANUFACTURER IS RESPONSIBLE FOR
MOUNTING BOLTS BEING LONG
ENOUGH TO FIT POLE CLASSES
SPECIFIED.

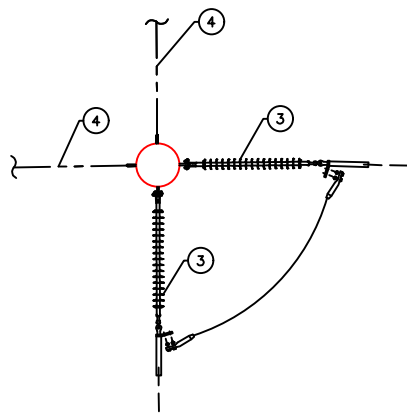
ALL WELDS
UNLESS NOTED, 



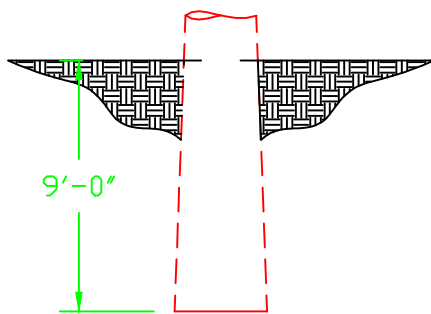
NOTE: DRAWING IS NOT TO SCALE.

[illegible]

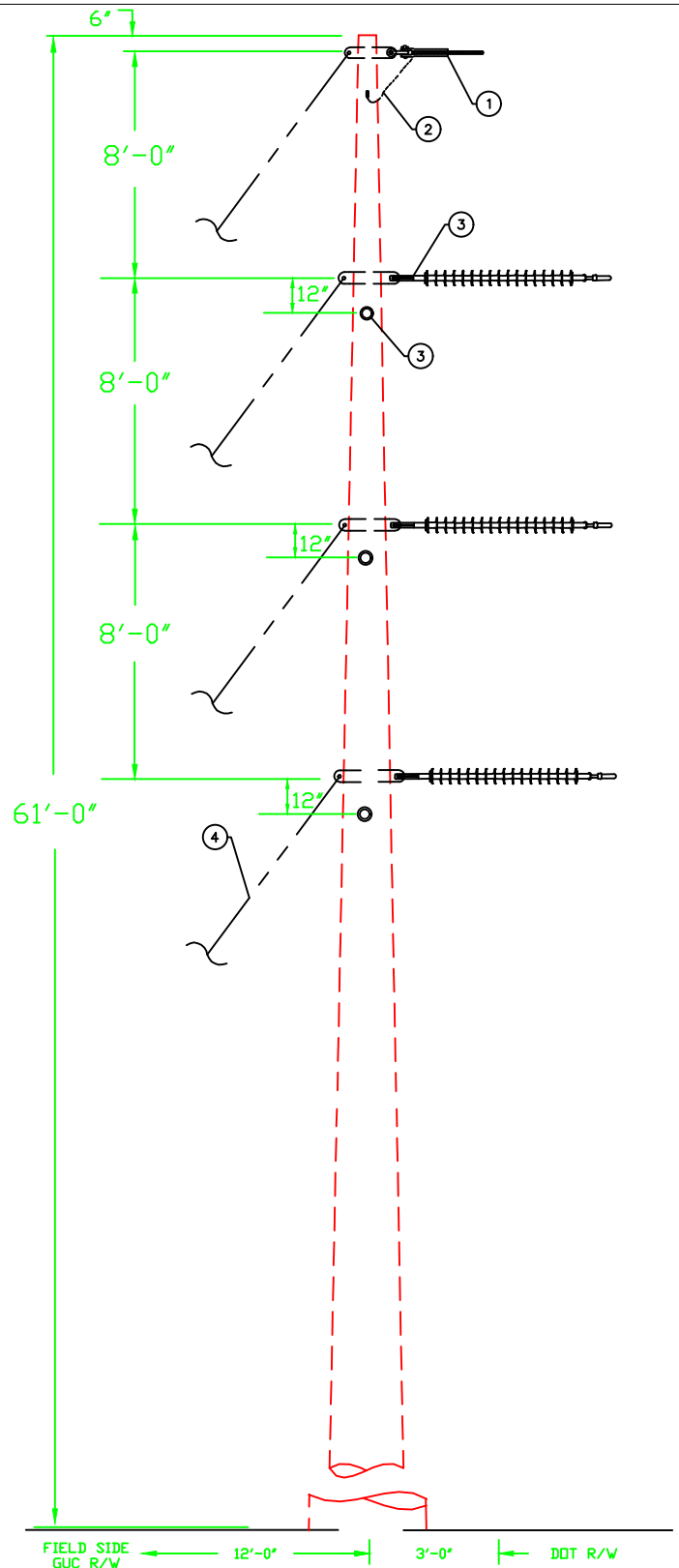
DWG. REF.		LIST OF MATERIALS			GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
	ea.	DESCRIPTION	ITEM	DET.		CIRCUIT 16 STRUCTURE 9 115 KV 3 PHASE, VERTICAL STRUCTURE TANGENT DOUBLE DEADEND, SUSPENSION			
1	3	OHWG ASSEMBLY, DEADEND	—	TM-4E					
2	1	OHWG GROUNDING ASSEMBLY	—	TM-2C					
3	6	DEADEND ASSEMBLY, PRIMARY	—	TM-1EM					
4	3	115 KV POST INSULATOR TANGENT	—	TM-3DM					
5	2	BOLT, MACHINE, 3/4" x 20"	—		DWN. JLS	DATE: 11/22/2019			
6	4	BOLT, MACHINE, 3/4" x 22"	—		CKD. KW	APPD. KW			
7	6	SPRING LOCK WASHER, 3/4"	—		SCALE: N.T.S.				
8	6	NUT, 3/4"	—		DATE	REVISION	DATE	REVISION	
9	6	WASHER SQUARE, 4"x4"x1/4", w/13/16"	—		10/08/2020	A			
	1	DRIVEN GROUND ROD ASSEMBLY	—	TM-9					



OVERHEAD VIEW



70' Structure Embedment



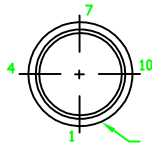
NOTE:

1. DRAWING IS NOT TO SCALE.

DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	1	OHGW ASSEMBLY, DEADEND	-	TM-4E		CIRCUIT 17 STRUCTURE 1 115 KV 3 PHASE, VERTICAL STRUCTURE LARGE ANGLE, DOUBLE DEADEND SUSPENSION		
2	1	OHGW GROUNDING ASSEMBLY	-	TM-2A				
3	6	DEADEND ASSEMBLY, PRIMARY	-	TM-1EM				
4	7	SINGLE DOWN GUY	-	TG-21A				
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9	DWN. JLS		DATE: 11/13/2019	
	7	ANCHOR ASSEMBLY, TRANSMISSION	-	TA-2H	CKD. KW		APPD. KW	
					SCALE: N.T.S.			
					DATE	REVISION	DATE	REVISION

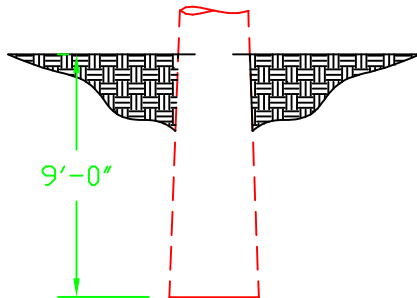
DWG. NO.

TSV4



THRU HOLE BORING DETAIL

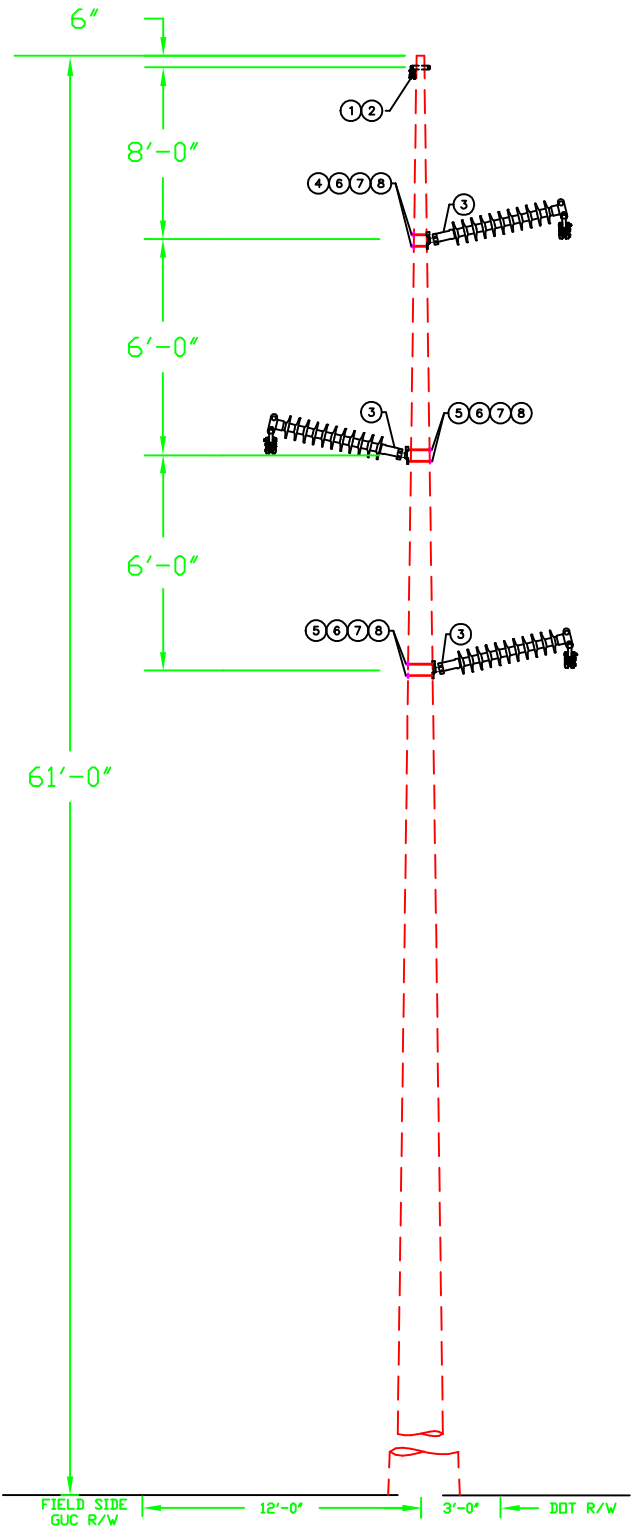
DIAMETER	FROM SMALL END	FLAT#
1.00"	8'-0.00"	4
1.00"	9'-0.00"	4
1.00"	14'-0.00"	4
1.00"	15'-0.00"	4
1.00"	20'-0.00"	4
1.00"	21'-0.00"	4



70' STRUCTURE EMBEDMENT

NOTES:

- DRAWING IS NOT TO SCALE. ALL DIMENSIONS ARE O.C. OF INSULATOR MOUNTS.

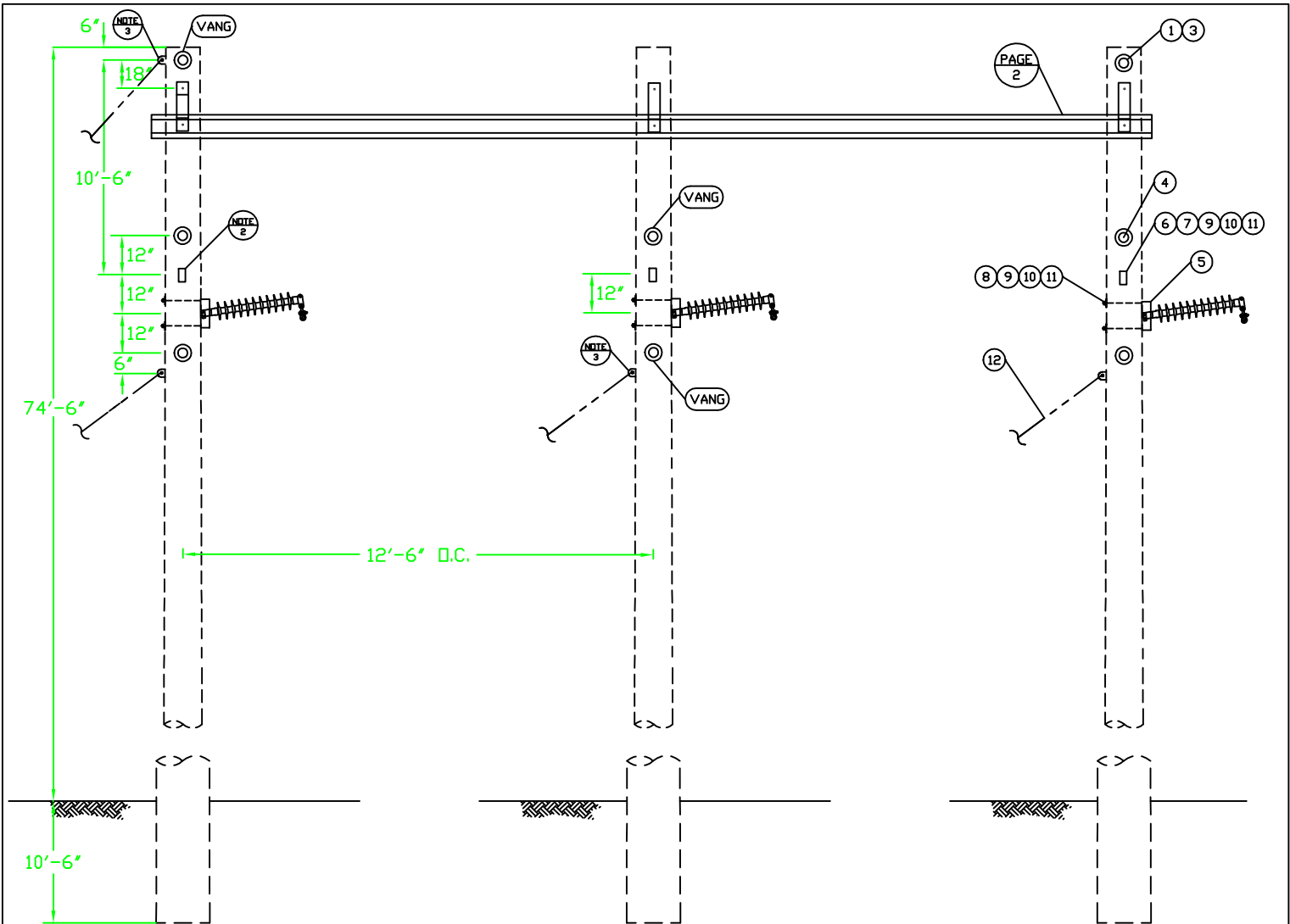


DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.				
1	1	OHGW ASSEMBLY, TANGENT	-	TM-4A				
2	1	OHGW GROUNDING ASSEMBLY	-	TM-9X(S)				
3	3	115 KV POST INSULATOR, TANGENT	-	TM-3DM				
4	2	BOLT, MACHINE, 3/4" x 18"	-					
5	4	BOLT, MACHINE, 3/4" x 20"	-		DWN. JLS		DATE: 11/14/2019	
6	6	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-		CKD. KW		APPD. KW	
7	6	SPRING LOCK WASHER, 3/4"	-		SCALE: N.T.S.			
8	6	NUT, 3/4"	-		DATE	REVISION	DATE	REVISION
	1	DRIVEN GROUND ROD ASSEMBLY	-	TM-9	10/08/2020	A		

CIRCUIT 17, STRUCTURE 2
115 KV 3 PHASE, Z-FRAME STRUCTURE,
TANGENT, POST INSULATORS

DWG. NO.

TPZ1

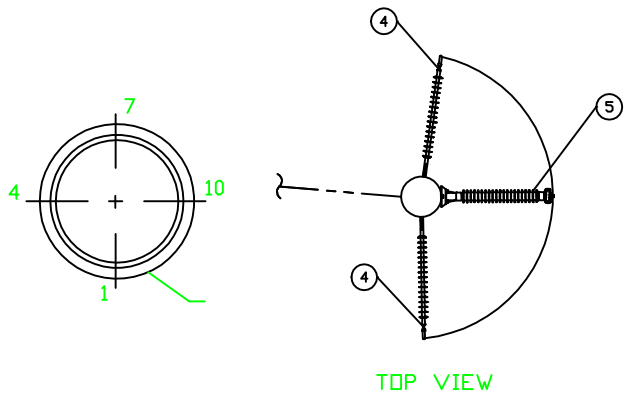


NOTES:

1. DRAWING IS NOT TO SCALE.
2. TRANSMISSION POLE EYE PLATE WILL BE FIELD DRILLED AT APPROPRIATE ANGLE FOR EACH CONDUCTOR AND STATIC.
3. VANGS 10° CW FROM FLAT 4.

THRU HOLE BORING DETAIL		
DIAMETER	FROM SMALL END	FLAT#
1.25"	2'-0.00"	1
1.25"	3'-3.00"	1
1.00"	11'-6"	10
1.00"	12'-6"	10

DWG. REF.	LIST OF MATERIALS			
	eq.	DESCRIPTION	ITEM	DET.
1	4	OHGW ASSEMBLY, DEADEND	-	TM-4E
2	2	SINGLE BOLT OHGW SUPPORT	-	TM-6A(S)
3	2	OHGW/NEUTRAL GROUNDING ASSEMBLY	-	TM-2B
4	6	DEAD END ASSEMBLY, PRIMARY	-	TM-1EM
5	3	115 KV POST INSULATOR	-	TM-3DM
6	3	GUY PLATE, TRANSMISSION	-	TG-27
7	6	BOLT, MACHINE, 3/4" x 16"	-	
8	6	BOLT, MACHINE, 3/4" x 18"	-	
9	12	SPRING LOCK WASHER, 3/4"	-	
10	12	NUT, 3/4"	-	
11	12	WASHER, SQUARE, 4" x 4" x 1/4" w/ 13/16"	-	
12	4	SINGLE DOWN GUY	-	TG-21A
	3	DRIVEN GROUND ROD ASSEMBLY	-	TM-9
	4	ANCHOR ASSEMBLY, TRANSMISSION	-	TA-2H



TOP VIEW

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



CIRCUIT 17 STRUCTURE 3 RIVER CROSSING
115 KV 3 PHASE 3 POLE DOUBLE CIRCUIT STRUCTURE
SMALL ANGLE, DOUBLE DEADEND

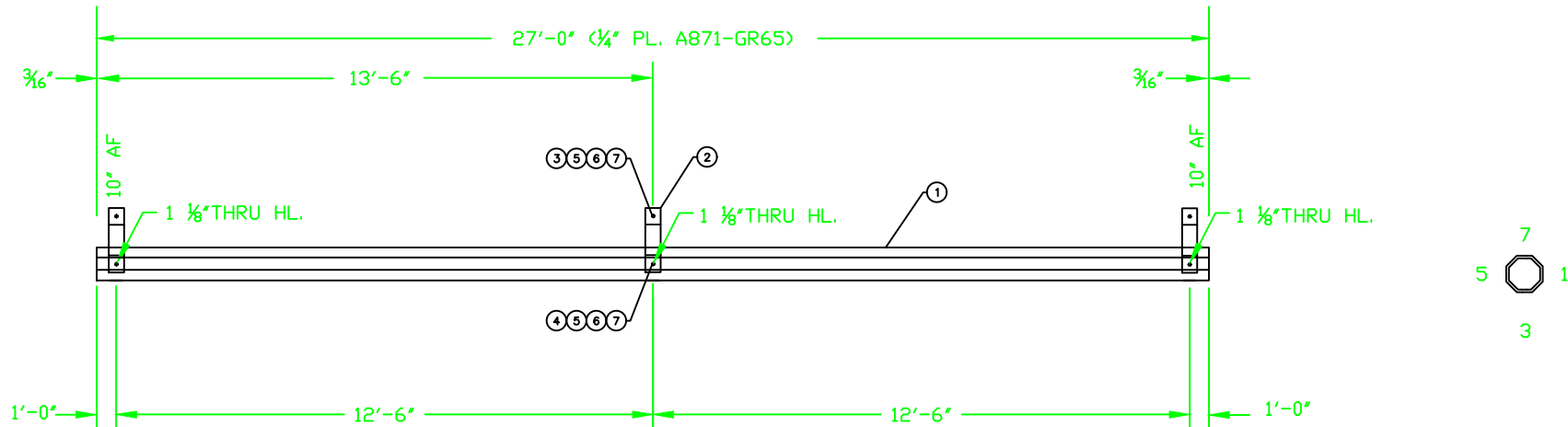
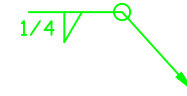
DWN. JLS		DATE: 11/20/2019	
CKD. KW		APPD. KW	
SCALE: N.T.S.		PAGE 1 OF 2	
DATE	REVISION	DATE	REVISION
10/08/2020	A		

DWG. NO.
TST6

MANUFACTURER NOTE:

MANUFACTURER IS RESPONSIBLE FOR
MOUNTING BOLTS BEING LONG
ENOUGH TO FIT POLE CLASSES
SPECIFIED.

ALL WELDS
UNLESS NOTED.

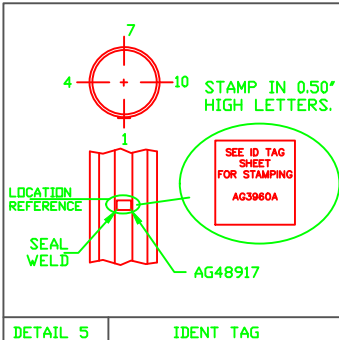


NOTE: DRAWING IS NOT TO SCALE.

DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA							
	ea.	DESCRIPTION	ITEM	DET.		CIRCUIT 17 STRUCTURE 3 RIVER CROSSING 115 KV 3 PHASE 3 POLE DOUBLE CIRCUIT STRUCTURE SMALL ANGLE, DOUBLE DEADEND						
1	1	27' WEATHERED STEEL CROSS ARM	—									
2	3	GALVANIZED STEEL MOUNTING STRAP	—									
3	3	BOLT, MACHINE 1" x 14"	—									
4	3	BOLT, MACHING 1" x REQ. LENGTH	—									
5	6	SPRING LOCK WASHER, 1"	—		DWN. JLS		DATE: 11/20/19		DWG. NO. TST6			
6	6	NUT, 1"	—		CKD. KW		APPD. KW					
7	6	WASHER, SQUARE, 4" x 4" x 1/4" w/ 1-1/8"	—		SCALE: N.T.S.		PAGE 2 OF 2					
					DATE	REVISION		DATE	REVISION			

1. FLATS 1 AND 12 ARE ADJACENT TO SEAM WELD
2. ALL CROSS SECTION VIEWS ARE FROM SMALL END OF TUBE.
3. POLE TUBE DATA REF MATERIAL=S-99

TUBE DIAMETERS MEASURED ACROSS FLATS



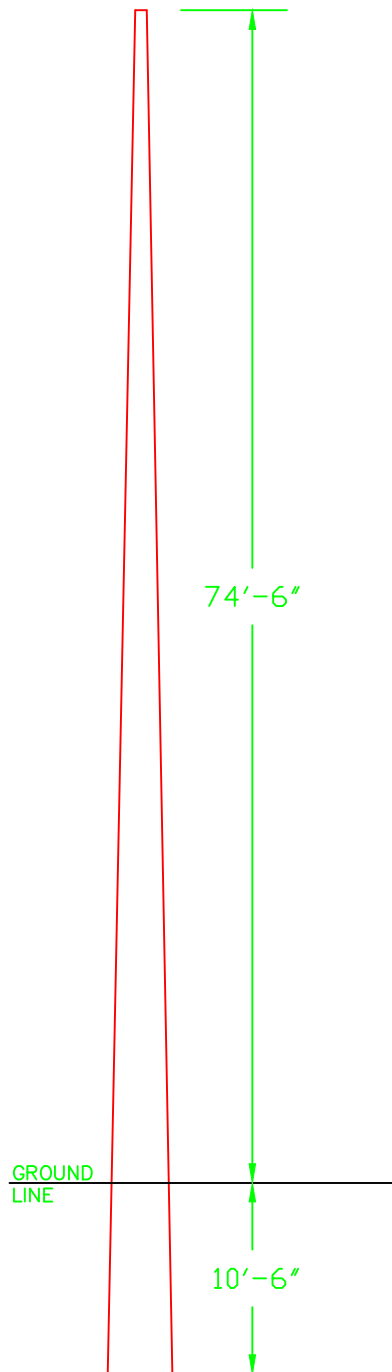
NOTES:

1. OHGW HOLES WILL BE FIELD DRILLED.
2. DRAWING IS NOT TO SCALE

GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
		CIRCUIT 17, STRUCTURE 4 & 5 115 KV 3 PHASE, H-FRAME STRUCTURE, TANGENT DOUBLE DEADEND	
DWN. JLS		DATE: 11/19/19	
CKD. KW		APPD. KW	
SCALE: N.T.S.		PAGE: 1 OF 4	
DATE	REVISION	DATE	REVISION

DWG. NO.

TSH6



NOTE: DIMENSIONS IN THE DRAWING
ARE NOT TRUE TO PROPORTION.

85' GALVANIZED STEEL POLE

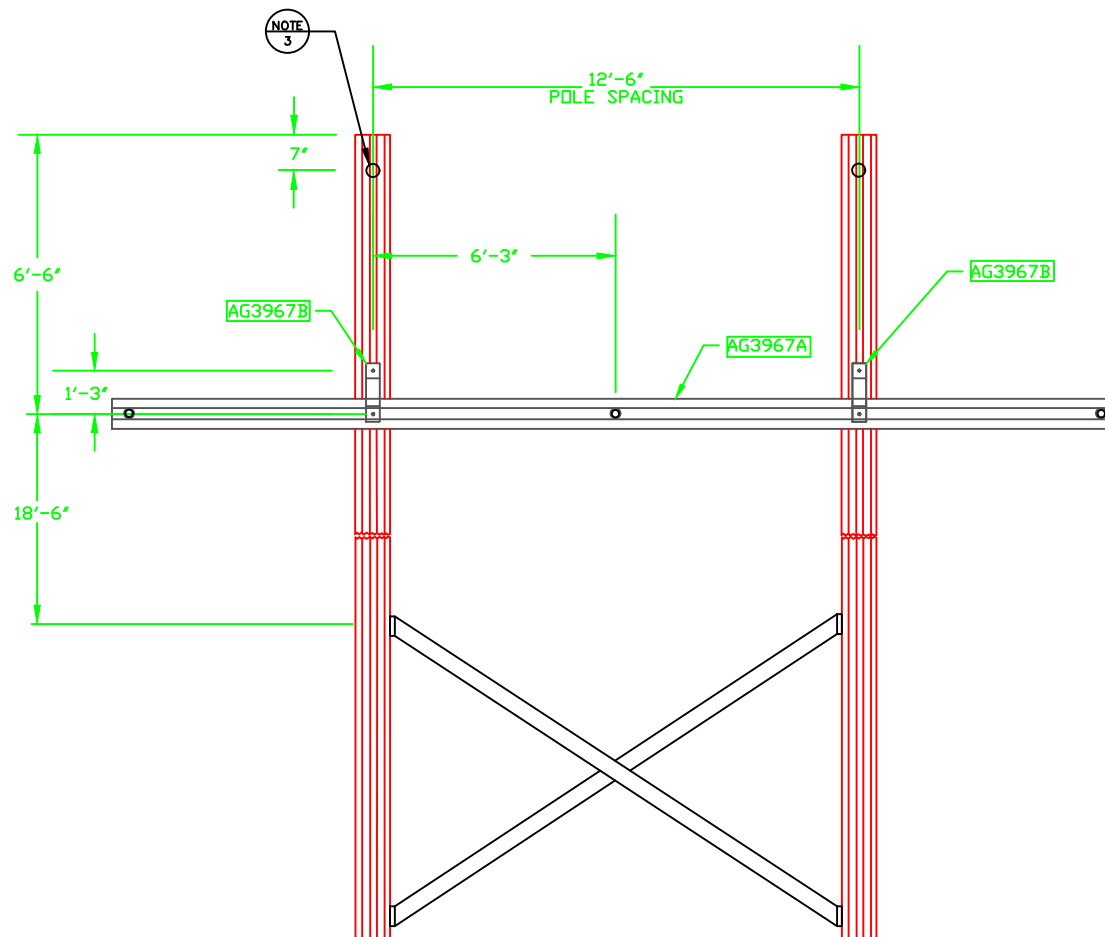
DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	ea.	DESCRIPTION	ITEM	DET.		CIRCUIT 17, STRUCTURE 4 & 5 115 KV 3 PHASE, H-FRAME STRUCTURE, TANGENT DOUBLE DEADEND		
	2	DOUBLE BOLT OHGW SUPPORT	—	TM-6B(S)				
	2	OHGW ASSEMBLY, TANGENT	—	TM-4A				
	2	OHGW GROUNDING ASSEMBLY	—	TM-9X(S)				
	6	DEADEND ASSEMBLY, PRIMARY	—	TM-1EM				
	2	DRIVEN GROUND ROD ASSEMBLY	—	TM-9				
					DWN. JLS		DATE: 11/19/19	
					CKD. KW		APPD. KW	
					SCALE: N.T.S.		PAGE: 2 OF 4	
					DATE	REVISION	DATE	REVISION

DWG. NO.
TSH6

AG3967Z

NOTES:

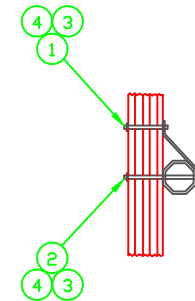
1. MANUFACTURER IS RESPONSIBLE FOR MOUNTING BOLTS BEING LONG ENOUGH TO FIT POLE CLASSES SPECIFIED.
2. DRAWING IS NOT TO SCALE.
3. STRUCTURE 4 WILL HAVE OHGW DOUBLE DEADEND. MANUFACTURER'S BORES SHOULD BE PLUGGED AND NEW HOLES WILL NEED TO BE FIELD DRILLED ON FACE 1 FOR DOUBLE POLE EYE PLATES. SEE SEPARATE MATERIALS LIST FOR STRUCTURE 4.

TOTAL HARDWARE QUANTITIES TO INCLUDE AN
EXTRA 5% OVERAGEBILL OF MATERIAL
(SHIPPING SEQ. = 1 FOR ALL)

PART #	DESCRIPTION	UNIT WEIGHT	QTY PER STR.
AG3967A	CROSSARM	790	1
	GALVANIZED STEEL MOUNTING STRAP	20	2
AG99267	HARDWARE KIT		1

DESCRIPTION

LINE	PART NUMBER	HARDWARE SIZE				GEN.	FINISH	ASTM SPEC.	QTY PER STR.
		BOLT		NUT	WASHER				
		DIA.	LENGTH						
1		1				TYPE3	BARE	A325	2
2		1				TYPE3	BARE	A325	2
3				1		ANCO	BARE	A563	8
4					1	FLT	BARE	F436	16
5									
6									



115 kV H-FRAME 26' CROSSARM

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINACIRCUIT 17, STRUCTURE 4 & 5
115 KV 3 PHASE, H-FRAME STRUCTURE,
TANGENT DOUBLE DEADEND

DWN. JLS		DATE: 11/19/19		DWG. NO. TSH6
CKD. KW		APPD. KW		
SCALE: N.T.S.		PAGE: 3 OF 4		
DATE	REVISION	DATE	REVISION	

AG3967A

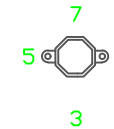
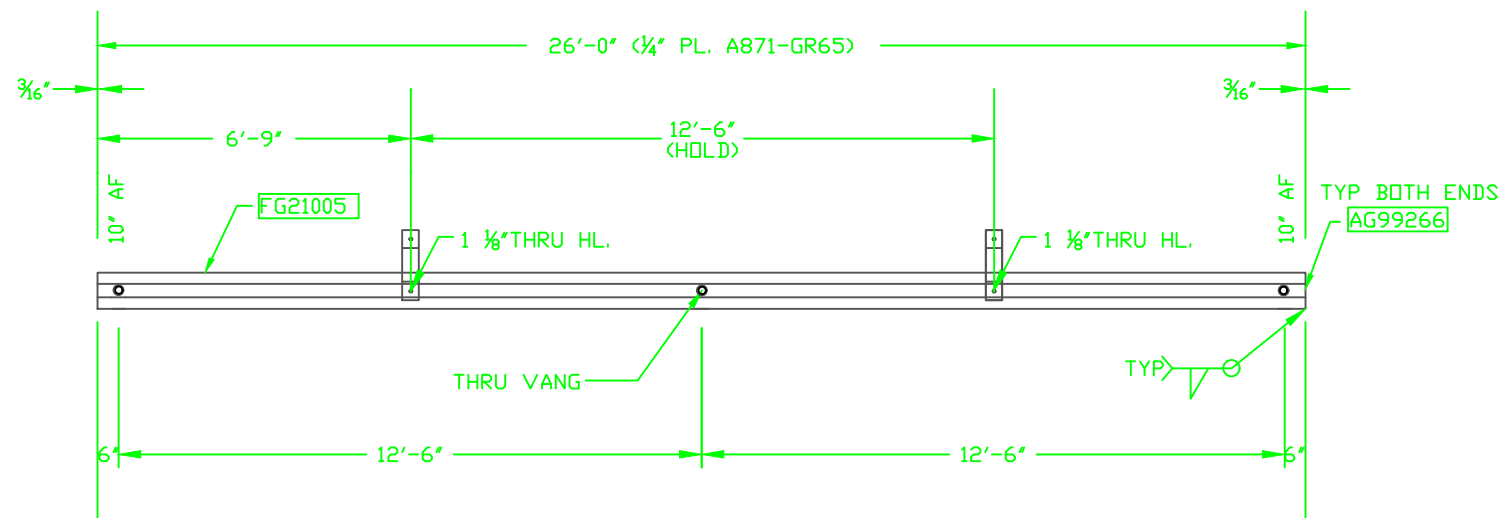
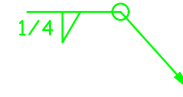
BILL OF MATERIAL

PART NUMBER	QTY.
FG21005	1
AG99328	3
AG99266	2

MANUFACTURER NOTE:

MANUFACTURER IS RESPONSIBLE FOR
MOUNTING BOLTS BEING LONG
ENOUGH TO FIT POLE CLASSES
SPECIFIED.

ALL WELDS
UNLESS NOTED. $1/4$ "



NOTE: DIMENSIONS IN THE DRAWING
ARE NOT TRUE TO PROPORTION.

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



CIRCUIT 17 STRUCTURE 4 & 5
115 KV 3 PHASE, H-FRAME STRUCTURE,
TANGENT DOUBLE DEADEND

DWN. JLS		DATE: 11/19/19	
CKD. KW		APPD. KW	
SCALE: N.T.S.		PAGE: 4 OF 4	
DATE	REVISION	DATE	REVISION

DWG. NO.

TSH6