



AGGREGATE SPECIFICATION	
SIEVE SIZE	PERCENT BY MASS PASSING DESIGNATED SIEVE (AASHTO T27 & T11)
1 INCH	100
NO. 4	25-65
NO. 40	8-25
NO. 200	0-8

NOTES:

1. SEE STRUCTURE LIST FOR SPECIFIED FOOTING LOCATION.
2. SEE BPA TRANSMISSION LINE MASTER SPECIFICATION SECTION 31 23 16 FOR FOOTING INSTALLATION REQUIREMENTS.
3. SEE BPA TRANSMISSION LINE MASTER SPECIFICATION SECTION 33 40 00, PART 2.2 D FOR CORRUGATED METAL PIPE SELECTION.
4. CORRUGATED METAL PIPE FOOTING SHALL ALWAYS BE USED WHEN POLE WRAP IS REQUIRED.
5. SEE BPA TRANSMISSION LINE STANDARD TECHNICAL SPECIFICATION 07.04 FOR CONCRETE INSTALLATION REQUIREMENTS.

NO.	C	WO	355445	COMPUTER	REVISION	ONLY	BY	DATE	APPROVED
C=CONTRACT CONSTR.. FA=FORCE ACCOUNT CONSTR.. R=RECORD. FILE NAME: 322448-1-0									
APPROVED				UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON					
COMPILED	HDR/MKM			WOOD POLE TRANSMISSION STRUCTURE CORRUGATED METAL PIPE FOOTING WITH CONCRETE BASE INSTALLATION DETAILS					
DRAWN	HDR/DRH								
CHECKED	HDR/KAD								
CHECKED									
APPROVED									
DATE				SERIAL	SOURCE	SIZE	SHEET	REVISION	
				328803	LFS	ANSI A	1 OF 1	0	

	MATERIALS				
	ITEM NO.	CAT. ID	DESCRIPTION		
	1	646915	ADAPTER GUY, TRIPLE EYE 18" LENGTH, GALV., W/NUT AND BOLT		
	2	646911	BAR, EXTENSION, SCREW ANCHOR, 7' LONG, SQUARE, GALV., W/NUT AND BOLT		
3	646905	THREE HELIX SCREW ANCHOR, 1-1/2" SQUARE SHAFT, STEEL, 7' LONG, 10", 12", 14" HELIX D A.			

ELEVATION

NOTES:

1. SEE BPA TRANSMISSION LINE MASTER SPECIFICATION SECTION 33 71 18 FOR GUY INSTALLATION REQUIREMENTS.

2. SCREW ANCHOR EXTENSION BARS TO BE ADDED AS NECESSARY TO OBTAIN REQUIRED TORQUE VALUE (SEE NOTE 3)

3. REQUIRED TORQUE ON ALL SCREW ANCHORS ON TACOMA SUBSTATION TIE LINE NO. 3 IS 5,000 FT-LBS.

4. REFER TO SITE DATA SHEETS FOR GUY ANCHOR H/L

NO.	W.D.	REVISION		BY	DATE	APPROVED
	355445					
* C = CONTRACT CONSTRUCTION, FA = FORCE ACCOUNT, R = RECORD FILE NAME: 341054-1-0						
DSGN HDR		UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON				
DRWN HDR		TACOMA SUBSTATION TIE LINE NO. 3 THREE HELIX, 10", 12" AND 14" HELICAL ANCHOR INSTALLATION				
CHKD HDR						
REVV _____						
CNCR _____						
APPR _____						
DATE 10/27/20		Serial	Source	Size	Sheet	Revision
		344748	LFS	ANSI C VERT.	1 OF 1	0