

	8	7	6	5	4	3	2	1
H	<b>BILL OF MATERIALS</b>							
	ITEM	DESCRIPTION	QTY	MFR. CATALOG No.				
	①	POLES: _____ FT CLASS _____	3					
	④	CROSSARM ASSEMBLY: ASSEMBLED ARM WITH #2821.6 SWING ANGLE BRACKET AND MOUNTING HARDWARE	1	HUGHES #C2561.BB				
	⑧	X-BRACES: COMPLETE WITH MOUNTING HARDWARE (2-7/8" x 14" AND 2-7/8" x 16" BOLTS)	2 SETS	HUGHES #1042-14-8-CPT				
	⑩	SUSPENSION CLAMP: WITH 90° Y-EYE FOR 3/8", 7 STRAND SHIELD WIRE	2	HUBBELL/ANDERSON #WS-7D-N WITH #YCS-05-90				
G	⑫	ARMOR ROD: 3/8", 7 STRAND E.H.S.	2	PREFORMED #AR-1130				
	⑬	SHIELD WIRE DAMPER	4	ALCOA #17D1-3				
	⑮	STEEL CABLE: 1/2", 7 STRAND E.H.S.	140 Ft.	BETHLEHEM STEEL				
	⑳	CONNECTING LINK	8 PR.	HUGHES #3154				
	㉑	GUY ROLLER	5	HUGHES #28082				
	㉒	MACHINE BOLT: 7/8" x 3" WITH #MFBG LOCKNUT	5	HUGHES #B83-2				
F	㉓	GUY GRIP: 1/2", 7 STRAND E.H.S.	8	PREFORMED #BG-2115				
	㉕	Y-BALL	3	HUBBELL/ANDERSON #YBC-3D				
	㉗	SUSPENSION CLAMPS: WITH SOCKET EYE FOR 477 KCM 26/7 ACSR	3	HUBBELL/ANDERSON #HAS-139-5				
	㉘	SUSPENSION INSULATORS: 15,000# TEST WITH BALL & SOCKET CLASS 52-5	21	LAPP #5980G				
	㉚	ARMOR ROD: FOR 477 KCM 26/7 ACSR	3	PREFORMED #AR-0134				
	㉛	CONDUCTOR DAMPER	8	ALCOA #17D5-7				
E	㉜	GUY STRAIN INSULATOR: FIBERGLASS, 6"-6" WITH ROLLER & 2 PINS	1	MACLEAN POWER SYSTEMS #BCC30-7BR				
	㉞	ANCHOR ROD: 1-1/4" x 10' WITH INSULATING WASHER, HEAVY CAST STEEL NUT & STEEL WASHER COATED WITH MASTIC ASPHALT & COVERED BY A PLASTIC PIPE	2	NATIONAL FOUNDRY #12510				
	㉟	ANCHOR PLATE	2	NATIONAL FOUNDRY #NFD248-14				
	㊱	GROUND WIRE: 30% CONDUCTIVITY, 3#8 (REFER TO POLE HEIGHT FOR LENGTH)	AS REQ'D	COPPERWELD				
	㊲	GROUND WIRE STAPLE	5D	COOPER POWER SYSTEMS/KEARNEY #12328-1				
D	㊳	GROUND ROD: 5/8" x 10'-0" SECTIONAL	8	THOMAS & BETTS/BLACKBURN #8260S				
	㊴	GROUND ROD COUPLERS: 5/8" ROD	3	THOMAS & BETTS/BLACKBURN #80C				
	㊵	GROUND ROD CONNECTOR: 5/8" ROD TO GROUND WIRE 3#8 (2)	2	FCI-BURNDY HYTAP #YGHP29C2				
	㊶	GROUND ROD CONNECTOR: 5/8" ROD TO GROUND WIRE 3#8 (1)	1	FCI-BURNDY HYTAP #YGHP29C2				
	㊷	CRIMPIT: 1/2" STEEL TO (1) 3#8 WIRE	1	FCI-BURNDY CAT. #YC28U25				
	㊸	POLE BAND: 2 WAY 180° (10° - 12°)	1	HUGHES #3108.6				
	㊹	POLE BAND: 2 WAY 180° (8° - 10°)	2	HUGHES #3108.5 WITH #2718.55 BONDING UNIT				
	㊺	POLE BAND: 2 WAY 180° (8° - 10°)	1	HUGHES #3108.5				
C								
B								
A								

**GENERAL NOTES:**

1. THIS BILL OF MATERIALS APPLIES TO DRAWING ST-G4010-03, SHT. 1.
2. EQUIPMENT ITEM NUMBERS ((1)) REFER TO EQUIPMENT NUMBERS IN LANL SUPPORT SERVICES CONTRACTOR'S MASTER BILL OF MATERIALS. ONLY THOSE NUMBERS USED ON SHT. 1 OF THIS DRAWING ARE SHOWN.

NOTES FOR DESIGNER:  
 (DO NOT INCLUDE ON CONSTRUCTION DRAWING)  
 1. COMPLY WITH CURRENT EDITION OF LANL DRAFTING MANUAL FOR CALL-OUTS PROTOCOL AND LOCATION OF SCHEDULES/MATERIAL.  
 2. ASSIGN AN APPROPRIATE DRAWING NUMBER PER CURRENT EDITION OF LANL DRAFTING MANUAL PROTOCOL FOR DETAILS.

DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

NO	DATE	CLASS REV	DESCRIPTION	OWN	VER	CHKD	SUB	APP	
<b>FACILITY &amp; WASTE OPERATIONS SYSTEMS ENGINEERING &amp; MAINTENANCE</b>									
<b>LANL ENGINEERING MANUAL SITE ELECTRICAL DISTRIBUTION STDS.</b>							DRAWN	M. BAKER	
TANGENT STRUCTURE 403 (4'-8") BILL OF MATERIALS							DESIGN	D. BRYANT	
BLDG. X							CHECKED	J. LANDMAN	
SUBMITTED							DATE	9/30/02	
DISCIPLINE POC: DAVID POWELL				APPROVED FOR RELEASE					
STANDARDS MANAGER: TOBIN CRUCH				SHEET					
				2					
PO Box 1663 Los Alamos, New Mexico 87545				2 of 2					
CLASSIFICATION U			REVIEWER MICHAEL LADACH			DATE 9/30/02			
PROJECT ID			DRAWING NO			REV			
CHAPTER 7			ST-G4010-03			0			