



ITEM	DESCRIPTION	QTY	MFR. CATALOG No.
2	CROSS ARM, WOOD, 3 1/2" X 4 1/2" X 8'-0", 4 PIN	1	HUGHES #2202C
3	CROSS ARM BRACE, 1 11/16" X 2 11/16" X 48" SPAN	1	BROOKS #446-48-24
7	SPRING WASHER, 5/8" SIZE	3	JOSLYN #J177
10	LAG SCREW, 1/2" X 4"	4	JOSLYN #J87B4
14	CRIMP CONNECTOR	1	HYTAP
15	CRIMP CONNECTOR	1	HYTAP
16	LOW VOLTAGE STEEL PIN, 5/8", 8" HEIGHT	3	JOSLYN #J207Z
17	PIN INSULATOR, ANSI CLASS 55-5	5	VICTOR #BR
18	MACHINE BOLT, 1/2" X 6"	2	JOSLYN #J87D6
19	SPRING WASHER, 1/2" SIZE	2	JOSLYN #J176
22	SQUARE WASHER, 5/8" SIZE	4	JOSLYN #J1074
23	DOUBLE ARMING BOLT, 5/8" X 22"	4	JOSLYN #J8B72
27	CLAMP, HOT LINE, FOR ACSR	3	CHANCE #S153D-AGP
28	HOT LINE CLAMP ADAPTER, 1/0-4/0 ACSR	3	FCI-BURNDY #YCB-2BU26
29	DIST. FUSE CUTOFF, 100 AMP.	3	KEARNEY #144261-020
30	DIST. TYPE METAL OXIDE SURGE ARRESTER WITH MOUNTING BRACKET	3	HUBBELL/CHIC BRASS MODEL PVD-100, #213613-7224
36	CONDUIT, 4" IMC OR 6" RIGID	AS REQ'D	
38	CONDUIT STANDOFF BRACKET WITH STRAP KIT	2	ALUMAFORM #8-CSO-12
40	LEAD THREAD ADAPTER, TRANS.	2	JOSLYN #J2B4D
41	WEATHERHEAD FOR 4" CONDUIT	1	COOPER/CROUSE-HINDS #F1066
42	GROUND CLAMP FOR 4" OR 6" CONDUIT	1	O.Z. GEDNEY #CG4104
47	NO. 4 BARE COPPER WIRE, 7 STRAND	AS REQ'D	
48	NO. 1/0 BARE COPPER WIRE, 7 STRAND	AS REQ'D	
52	GROUND WIRE STAPLE, 2"	AS REQ'D	JOSLYN #J6655
53	TRANSFORMER, CONV. CLASS A, 14,400/_____ LV	3	
55	TRANSFORMER MOUNTING BRACKETS	1 SET	ALUMAFORM
56	GROUND ROD, 3/4" X 8"	2	JOSLYN #J533B
57	GROUND ROD CLAMP, HEX HEAD, 3/4"	2	JOSLYN #J84B3
73	HOT LINE CLAMP BAIL FOR COPPER	3	THOMAS & BETTS/BLACKBURN #7030C
74	COMPRESSION TAP, 1/0 TO #2 SOLID COPPER	3	THOMAS & BETTS/BLACKBURN #CF102-1
75	COMPRESSION TAP, 2/0 TO #2 SOLID COPPER	3	THOMAS & BETTS/BLACKBURN #CF402-1
76	WEJTAP CONNECTOR	3	FCI-BURNDY (# AS REQUIRED)

**GENERAL NOTES:**  
1. THIS BILL OF MATERIALS APPLIES TO DRAWING ST-G4010-21, SHT. 1.  
2. EQUIPMENT ITEM NUMBERS (Ⓜ) 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.

\* USE ITEM 73 AND 74 OR 75 FOR COPPER CONDUCTORS.  
USE ITEM 28 FOR ACSR CONDUCTORS.

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>									
LANL ENGINEERING MANUAL SITE ELECTRICAL DISTRIBUTION STDS.				DRAWN	M. BAKER				
NEW 3 PHASE TRANSFORMER BANK ON EXISTING POLE WITH UNDERGROUND SECONDARY - BILL OF MATERIALS				DESIGN	D. BRYANT				
BLDG. X TA-X				CHECKED	J. LANDMAN				
SUBMITTED				DATE	8/30/02				
DISCIPLINE POCI DAVID POWELL				APPROVED FOR RELEASE	STANDARDS MANAGER TOSH GRUCH				
				SHEET	2				
CLASSIFICATION U				REVIEWER	MICHAEL LADACH				
PROJECT ID				DATE	8/30/02				
CHAPTER 7				DRAWING NO	ST-G4010-21				
				REV	0				

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