

DISTRIBUTION CONSTRUCTION STANDARDS

The construction standards set forth in this manual represent accepted specifications for distribution lines throughout the Central Maine Power Company (CMP) system. These standards are for construction and technical information. They are not intended to interpret Company policy in the serving of customers. These specifications, effective at the date of their issue, have been instituted with the objective of establishing uniform distribution construction. The standards are based on the requirements of the National Electrical Safety Code (ANSI standard #2C), Maine State regulation and supplemented by Central Maine Power standard work practices. However, any more stringent requirements contained herein will apply.

These standards should be utilized only by those competent in the construction, operation and maintenance of electrical distribution facilities, CMP Safety Rules and CMP work practices. Economy and safety require that these specifications be followed where ever practicable. All new construction and all rebuilds of any consequence shall conform to these standards unless specific approval for the particular deviation has been obtained from the CMP Distribution Field Engineer. Approvals for deviations from these standards will be granted only under specific circumstances and shall not be given on a blanket basis. It is not intended that existing construction be immediately changed to conform to these standards. Nothing in these standards shall be construed as superseding the regulations of any state or municipal authorities.

ATTENTION CONTRACTORS

There are reference tables included in the Standards Book, such as sag charts, wire and pole characteristics etc, that are used for comparison reasons. Acceptable materials are reflected in the Contractor Item Catalog. Please refer to this to avoid confusion.

The process for requesting an alternative material

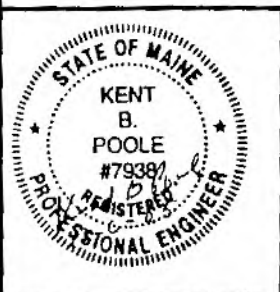
1. Contractor should submit to CMP, (to the Manager of Distribution Engineering) the recommendations, in writing, along with Manufacturers Specifications.
2. CMP will review.
3. If accepted, CMP will submit to MPUC, a request for a more flexible standard and notify all private contractors, via mailing.
4. If not accepted, contractor can submit suggestion to MPUC.

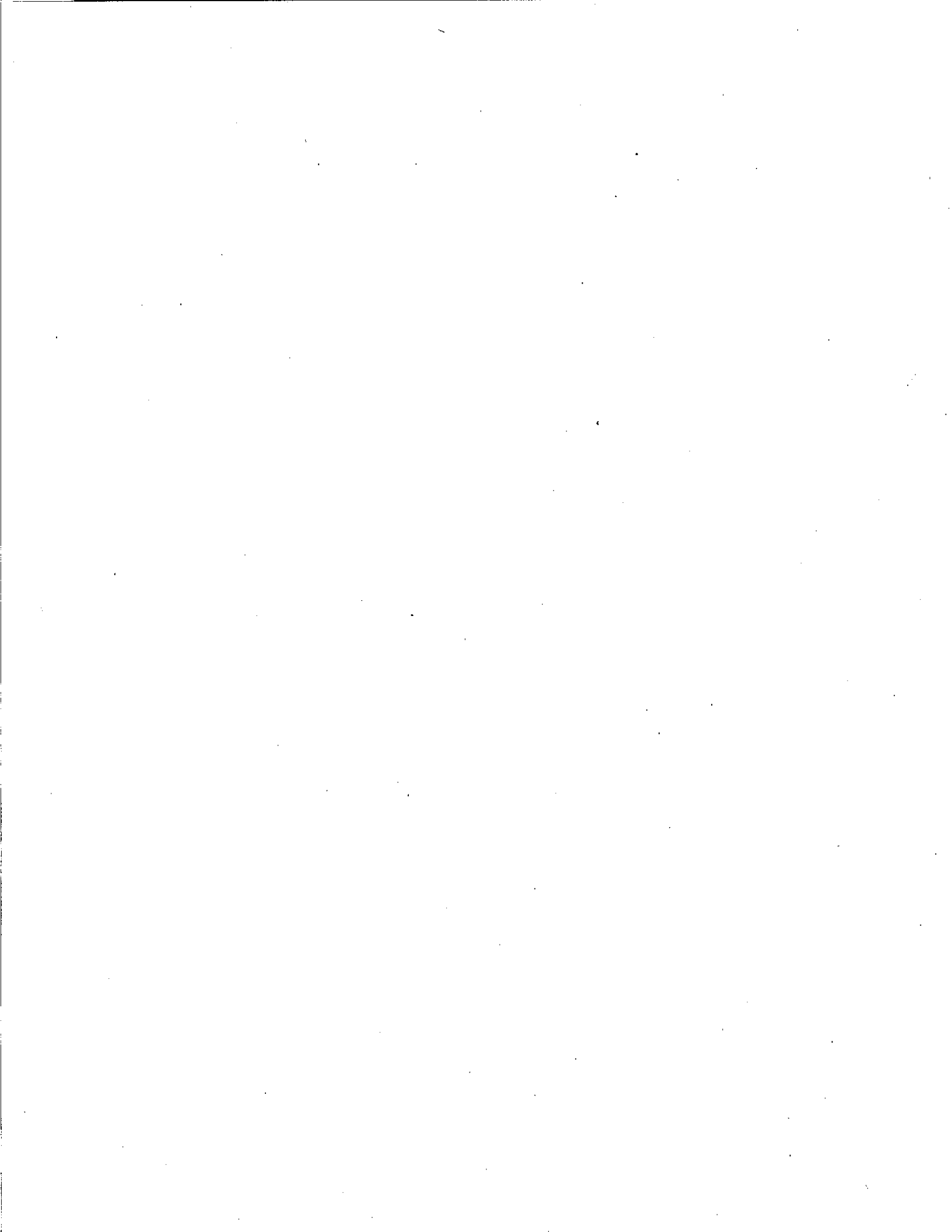
DESIGNED	REVISOR	REVISION	DATE
	CS		10/15/01
DRAWN	REC		10/07/02
	CS		07/03/03



DESIGNED	ORIGINAL	DATE
	GRG	12/13/93
DRAWN		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
07/03/03	300	Foreword
	301-1	Index
	301-2	Macro Index
		303 PLANT IDENTIFICATION
08/23/01	303	Plant Identification - General
02/24/06	303-1	Plant Identification - Overhead
02/07/06	303-2	Plant Identification - Overhead
11/21/05	303-3	Plant Identification - Underground
12/06/05	303-4	Plant Identification - Underground
11/21/05	303-5	Plant Identification - Poles
11/21/05	303-6	Plant Identification - URD Equip & Cable
03/25/08	303-7	Plant Identification - Markers and Signs
11/30/05	303-8	Plant Identification - Switch Numbering
11/28/06	303-9	Plant Identification - Fuse Marking
06/13/06	303-10	Plant Identification - Life Support Equipment
07/06/06	303-11	Warning and Danger Labels Padmounts
04/14/06	303-12	Warning and Danger Labels Padmounts
		304 LINE VOLTAGES
10/16/06	304	Line Voltages
08/20/08	304-1	Line Voltages
		305 CLEARANCES
03/15/07	305	Clearances
03/15/07	305-1	Clearances
03/15/07	305-2	Clearances
03/15/07	305-3	Clearances
03/15/07	305-4	Clearances
03/15/07	305-5	Clearances
03/15/07	305-6	Clearances
03/15/07	305-7	Clearances
03/15/07	305-8	Clearances
12/06/05	305-9	Clearances
03/15/07	305-10	Clearances
03/15/07	305-11	Clearances
03/15/07	305-12	Clearances
03/15/07	305-13	Clearances
12/06/05	305-14	Clearances
08/03/01	305-15	Clearances
10/04/02	305-16	Clearances

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
		307 POLES
10/16/06	307	General Poles - Classification and Salvage
08/23/01	307-1	35 - 50 Foot Distribution Poles
07/06/06	307-2	Standard Crossarms
08/23/01	307-3	Pole Dimensions - Minimum
12/26/02	307-4	Pole Weights - Average
08/23/01	307-5	Pole Class - Unguyed Pole
10/05/01	307-6	Communication Company Inline Pole Attachments
08/23/01	307-7	Pole Class Graph 1
08/23/01	307-8	Pole Class Graph 2
08/23/01	307-9	Pole Classification - Guyed Poles
08/23/01	307-10	Pole Classification - Heavy Equipment
08/31/01	307-11	Pole Classification - Example
10/01/01	307-12	Pole Classification - Example
07/12/07	307-13	Pole Setting
		308 JOINT USE OF PLANT
11/30/05	308-1	Joint Use of Poles - Pole Space
12/06/05	308-2	Joint Use of Poles - Pole Space
10/30/08	308-3	Joint Use of Poles - Pole Space
09/15/08	308-4	Pole Space and Pole Height Calculations
09/15/08	308-5	Pole Space and Pole Height Calculations (Continued)
09/15/08	308-6	Pole Space and Pole Height Calculations (Continued)
06/19/08	308-6	45' Pole for Road Crossing, 40' Pole Spacing
		309 GUYING
11/18/06	309	Guying - General
10/11/07	309-1	Guy Selection Tables, Single Phase Lines
10/11/07	309-2	Guy Selection Tables, Three Phase Lines, 2000# Tension
10/11/07	309-3	336, 400 CM Long Span 3 Ph Guy Table
12/31/07	309-4	Anchor Guy Components
04/19/06	309-5	Line Tension Factors
10/04/01	309-6	Guy Tension Graph
12/26/02	309-7	Use of Guy Graph
08/24/01	309-8	Use of Guy Graph
10/04/01	309-9	Method of Measuring Lead and Height of Guy
10/16/01	309-10	Method of Determining Pull at Angle in Line
10/18/06	309-11	Using the Pull Finder
07/08/09	309-12A	Guy-Grounded Down
12/02/05	309-12B	Guy-Grounded Down
07/08/09	309-13A	Guy-Grounded Down with Fiberglass Strain Link
11/17/06	309-13B	Guy-Grounded Down with Fiberglass Strain Link

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
07/08/09	309-14A	Guy Grounded Aerial
12/02/05	309-14B	Guy Grounded Aerial
07/08/09	309-15A	Guy Grounded Aerial w/78in FG St Link
12/06/05	309-15B	Guy Grounded Aerial w/78in FG St Link
07/08/09	309-16A	Guy Grounded Sidewalk Assembly
12/06/05	309-16B	Guy Grounded Sidewalk Assembly
04/27/09	309-17	Push Brace
310 POLE TOP CONSTRUCTION		
12/28/07	310	General Pole Top Construction
10/16/06	310-1	Railroad Crossings & Limited Access Highway Crossings
07/08/09	311-1A	1PH Pole Top Structure
12/02/05	311-1B	1PH Pole Top Structure
07/08/09	311-2A	1PH Pole Top Extension 30 In.
06/19/06	311-2B	1PH Pole Top Extension 30 In.
07/08/09	311-3A	1PH Single Xarm Structure
12/02/05	311-3B	1PH Single Xarm Structure
07/08/09	311-4A	1PH Tap from Pole Top Structure
12/08/05	311-4B	1PH Tap from Pole Top Structure
07/08/09	311-5A	1PH Tap from Pole Top Structure 2 Way
07/12/07	311-5B	1 PH Tap from Pole Top Structure 2 Way
07/08/09	311-6A	1 PH Pole Top Structure With Guy
12/08/05	311-6B	1 PH Pole Top Structure With Guy
07/08/09	311-7A	1PH Double Xarm Offset
12/29/06	311-7B	1PH Double Xarm Offset
07/08/09	311-8A	1 PH Fiberglass Alley Arm Structure
12/08/06	311-8B	1 PH Fibergss Alley Arm Structure
07/08/09	311-9A	1PH Semi-Strain Structure
10/05/06	311-9B	1PH Semi-Strain Structure
07/08/09	311-10A	Single Phase Take Off from Semi-Strain Structure
12/29/05	311-10B	Single Phase Take Off from Semi-Strain Structure
07/07/09	311-11A	1 PH Tap from Semi-Strain Structure W/60 in. FG Ext.
03/24/08	311-11B	1 PH Tap from Semi-Strain Structure W/60 in. FG Ext.
07/07/09	311-12A	Single Phase Tap from Inside Semi-Strain
11/18/06	311-12B	Single Phase Tap from Inside Semi-Strain
07/07/09	311-13A	1PH Deadend Structure
01/05/06	311-13B	1 PH Deadend Structure
07/07/09	311-14A	1 PH Deadend Corner Structure
01/05/06	311-14B	1 PH Deadend Corner Structure
07/07/09	312-1A	2 PH Single Xarm 0-6' Corner
12/14/05	312-1B	2 PH Single Xarm 0-6' Corner
07/07/09	312-2A	2 PH Double Xarm 6-25' Corner

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
01/05/06	312-2B	2 PH Double Xarm 6-25' Corner
07/07/09	312-3A	2 PH Double Xarm Angle Pin to 50' Corner
12/29/05	312-3B	2 PH Double Xarm Angle Pin to 50' Corner
07/07/09	313-1A	3 PH Single Xarm up to 6' Corner
12/19/05	313-1B	3 PH Single Xarm up to 6' Corner
07/07/09	313-2A	3 PH Pole Top Extension F/G Single Xarm
03/24/08	313-2B	3 PH Pole Top Extension F/G Single Xarm
07/07/09	313-3A	1 PH Tap from 3 PH Xarm Structure
12/19/05	313-3B	1 PH Tap from 3 PH Xarm Structure
07/07/09	313-4A	Two 1 PH Taps from 3 PH Xarm Structure
12/19/05	313-4B	Two 1 PH Taps from 3 PH Xarm Structure
07/07/09	313-5A	3 PH Double Xarm Tap N/Fused
12/19/05	313-5B	3 PH Double Xarm Tap N/Fused
07/07/09	313-6A	3 PH Double Xarm Tap Fused from 12 KV
01/05/06	313-6B	3 PH Double Xarm Tap Fused from 12 KV
07/07/09	313-7A	3 PH Triple Xarm Tap N/Fused
12/29/05	313-7B	3 PH Triple Xarm Tap N/Fused
07/07/09	313-8A	3 PH Triple Xarm Tap Fused from 12 KV
12/29/05	313-8B	3 PH Triple Xarm Tap Fused from 12 KV
07/07/09	313-9A	3 PH Single Xarm Offset Structure
12/19/05	313-9B	3 PH Single Xarm Offset Structure
07/07/09	313-10A	3 PH Alley Arm Structure
03/14/06	313-10B	3 PH Alley Arm Structure
07/07/09	313-11A	3 PH Fiberglass Alley Arm Structure up to 15ft Corner
10/18/06	313-11B	3 PH Fiberglass Alley Arm Structure up to 15ft Corner
07/07/09	313-12A	3 PH Double Xarm up to 25' Corner
12/20/05	313-12B	3 PH Double Xarm up to 25' Corner
07/07/09	313-13A	3 PH Pole Top Extension F/G Double Xarm
04/14/08	313-13B	3 PH Pole Top Extension F/G Double Xarm
07/07/09	313-14A	3 PH Double Xarm Offset
12/29/05	313-14B	3 PH Double Xarm Offset
07/07/09	313-15A	3 PH Double Arm Angle Pin
12/21/05	313-15B	3 PH Double Arm Angle Pin
07/07/09	313-16A	3 PH Double Deadend Angle
12/29/05	313-16B	3 PH Double Deadend Angle
07/07/09	313-17A	3 PH Double Buckarms over 50' Corner
12/29/05	313-17B	3 PH Double Buckarms over 50' Corner
07/07/09	313-18A	3 PH Triple Arm Buckarms over 50' Corner
12/21/05	313-18B	3 PH Triple Arm Buckarms over 50' Corner
07/07/09	313-19A	3 PH Deadend Structure
12/21/05	313-19B	3 PH Deadend Structure
07/07/09	313-20A	3 PH Triple Xarm Deadend

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
12/21/05	313-20B	3 PH Triple Xarm Deadend
		315 CAPACITORS
10/16/06	315	Single Phase Capacitors
07/07/09	315-1A	1 PH Capacitor on Pole Top Inst
06/26/06	315-1B	1 PH Capacitor on Pole Top Inst
07/07/09	315-2A	1 PH Capacitor Pole Top W/Blocking Unit
06/26/06	315-2B	1 PH Capacitor Pole Top W/Blocking Unit
01/30/06	316	3 PH Capacitor Banks - General Information
07/07/09	316-1A	3 PH Capacitor Bank 12 KV Grounded Wye
06/26/06	316-1B	3 PH Capacitor Bank 12 KV Grounded Wye
07/07/09	316-2A	3 PH Capacitor Bank 34 KV Grounded Wye
06/26/06	316-2B	3 PH Capacitor Bank 34 KV Grounded Wye
07/07/09	316-3A	3 PH Capacitor Bank w/Blocking Units 34 KV
06/26/06	316-3B	3 PH Capacitor Bank w/Blocking Units 34 KV
		319 REGULATORS
08/27/08	319	Regulator Operating Instructions
07/07/09	319-1A	1 PH Voltage Regulator 12KV Road Ph
08/27/08	319-1B	1 PH Voltage Regulator 12KV Road Ph
07/07/09	319-2A	1 PH Voltage Regulator 12KV Center Ph
08/27/08	319-2B	1 PH Voltage Regulator 12KV Center Ph
07/07/09	319-3A	1 PH Voltage Regulator 12KV Field Ph
08/27/08	319-3B	1 PH Voltage Regulator 12KV Field Ph
07/07/09	319-4A	3 PH Platform Mounted Voltage Regulator
08/27/08	319-4B	3 PH Platform Mounted Voltage Regulator
08/27/08	319-4C	3 PH Platform Mounted Voltage Regulator
01/09/06	319-4D	3 PH Platform Mounted Voltage Regulator
		320 SECTIONALIZING
07/07/09	321-1A	1 PH Sectionalizing Disconnect with Inline Deadend
01/09/06	321-1B	1 PH Sectionalizing Disconnect with Inline Deadend
07/07/09	321-2A	1 PH Sectionalizing Disc. Dbl Deadends
07/10/09	321-2B	1 PH Sectionalizing Disc. Dbl Deadends
07/07/09	323-1A	3 Ph Sectionalizing Disc Using In-Line D/E 12KV
12/28/05	323-1B	3 Ph Sectionalizing Disc Using In-Line D/E 12KV
07/07/09	323-2A	3 Ph Sectionalizing Disc using Double Deadends 12KV
01/09/06	323-2B	3 Ph Sectionalizing Disc using Double Deadends 12KV
07/07/09*	324-1A	3 PH Airbreak Switch Inline 12KV
01/09/06	324-1B	3 PH Airbreak Switch Inline 12KV
07/07/09	324-2A	3 PH Airbreak Switch Inline 34 KV
01/09/06	324-2B	3 PH Airbreak Switch Inline 34 KV

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
07/07/09	325-1A	1 PH Recl Inst #4 Cond & Up In Line
11/18/06	325-1B	1 PH Recl Inst #4 Cond & Up In Line
07/07/09	325-2A	1 PH Recl Inst Down Double D/E
07/10/06	325-2B	1 PH Recl Inst Down Double D/E
07/07/09	325-3A	2 1 PH Recl Inst in Line DBL Xarm
11/18/06	325-3B	2 1 PH Recl Inst in Line DBL Xarm
07/07/09	325-4A	3 PH Recl 12KV inline Disconnect 1/0 and 336
12/06/06	325-4B	3 PH Recl 12KV inline Disconnect 1/0 and 336
07/07/09	325-5A	3 PH Recl Inline Deadend Sgl Xarm 12KV
07/11/06	325-5B	3 PH Recl Inline Deadend Sgl Xarm 12KV
07/07/09	325-6A	3 Ph Recl Inst 12 KV DBL Deadends
07/10/06	325-6B	3 PH Recl Inst 12 KV Dbl Deadends
07/07/09	325-7A	3 PH Recl over 2000 Amp Dbl Deadend 12 KV
02/06/08	325-7B	3 Ph Recl Over 2000 Amp DBL Deadend 12 KV
07/07/09	325-8A	3 PH Recl Inst 34 KV Dbl Deadends
02/06/08	325-8B	3 Ph Recl Inst 34 KV DBL Deadends
08/31/01	326-2	Recloser Metering Connection Diagram
330 SPACER CABLE		
01/30/06	330	Spacer Cable General
01/24/06	330-1	Spacer Cable Stock Codes
07/07/09	330-2	Spacer Cable Material ID Numbers
07/07/09	331-1A	1 Phase Spacer Cable Tangent Structure 12KV
01/24/06	331-1B	1 Phase Spacer Cable Tangent Structure 12KV
07/07/09	331-2A	1 PH Spacer CBL To 60 FT Angle 12KV
01/17/06	331-2B	1 PH Spacer CBL To 60 FT Angle 12KV
07/07/09	331-3A	1 PH Spacer CBL 60-90 FT Angle 12KV
01/17/06	331-3B	1 PH Spacer CBL 60-90 FT Angle 12KV
07/07/09	331-4A	1 PH Spacer CBL Deadend Structure 12KV
01/17/06	331-4B	1 PH Spacer CBL Deadend Structure 12KV
07/07/09	331-5A	1 PH Spacer CBL Open Wire Transition 12KV
01/24/06	331-5B	1 PH Spacer CBL Open Wire Transition 12KV
07/07/09	331-6A	1 PH Spacer CBL Tap From Pole Top ST 12KV
01/24/06	331-6B	1 PH Spacer CBL Tap From Pole Top ST 12KV
07/07/09	331-7A	1 PH Spacer CBL Tap From 3PH SX STR 12KV
01/17/06	331-7B	1 PH Spacer CBL Tap From 3PH SX STR 12KV
07/07/09	333-1A	3PH Spacer CBL Tangent Structure 12KV
01/24/06	333-1B	3PH Spacer CBL Tangent Structure 12KV
07/07/09	333-2A	3PH Spacer CBL 30 IN Pole Top Ext 12KV
01/24/06	333-2B	3PH Spacer CBL 30 IN Pole Top Ext 12KV
07/07/09	333-3A	3PH Spacer CBL 60 IN Pole Top Ext 12KV
01/24/06	333-3B	3PH Spacer CBL 60 IN Pole Top Ext 12KV

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
07/07/09	333-4A	3PH Spacer CBL Angle Struct 6-60 FT 12KV
01/24/06	333-4B	3PH Spacer CBL Angle Struct 6-60 FT 12KV
07/07/09	333-5A	3PH Spacer CBL Inside Angle 6-25 FT 12KV
02/07/06	333-5B	3PH Spacer CBL Inside Angle 6-25 FT 12KV
07/07/09	333-6A	3PH Spacer Cable Deadend 12KV
01/17/06	333-6B	3PH Spacer Cable Deadend 12KV
07/07/09	333-7A	3PH Spacer CBL DBL D/E Preform Grip 12KV
07/12/07	333-7B	3PH Spacer CBL DBL D/E Preform Grip 12KV
07/07/09	333-8A	3PH Spacer CBL Deadend To Open Wire 12KV
07/12/07	333-8B	3PH Spacer CBL Deadend To Open Wire 12KV
07/07/09	333-9A	3PH Spacer CBL Open Wire Tap 12KV
02/02/06	333-9B	3PH Spacer CBL Open Wire Tap 12KV
07/07/09	333-10A	3PH Spacer CBL W/3PH Overbuild STR 12KV
01/17/06	333-10B	3PH Spacer CBL W/3PH Overbuild STR 12KV
335 FIBER OPTIC		
08/31/01	335	General Fiber Optic Cable
01/19/06	335-1B	Fiber Position on 3 PH Single Xarm for Up to 6 Ft Corner
01/31/06	335-2B	Fiber Position on 3 PH Double Xarm up to 25FT Corner
02/07/06	335-3B	Fiber Position on 3 PH Double Xarm Angle Pin to 50Ft Comer
02/03/06	335-4B	Fiber Position on 3 PH DoubleDeadend Angle
01/31/06	335-5B	Fiber Position on 3 PH Double Buckarms Over 50Ft Corner
02/03/06	335-6B	Fiber Position on 3 PH Fiberglass Alley Arm Structure
02/02/06	335-7B	Fiber Position on 1 PH Tap from 3 PH Xarm Structure
02/08/06	335-8B	Fiber Position on 3 PH Double Xarm Tap Fused from 12KV
02/08/06	335-9B	Fiber Position on 3 PH Double Xarm Tap Fused from 34KV
02/24/06	336-1B	Fiber Position on 3 PH Riser 4 Wire 34KV
02/03/06	337-1B	Fiber Position on 1 PH Xfmr 10 to 50 KVA on 3 PH SX 34KV
02/03/06	337-2B	Fiber Position on 1 PH Xfmr 75 - 100 KVA on 3 PH SX 34KV
02/09/06	337-3B	Fiber Position on 3 PH to 167KVA Cluster MT on SX 34KV
02/08/06	337-4B	Fiber Position on 3 PH Xfrm Unit Prot on SX Structure 12KV
02/08/06	337-5B	Fiber Position on 3 PH Xfrm Unit Prot on DE Structure 12KV
02/08/06	337-6B	Fiber Position on 3 PH Xfrm Unit Conv on SX Structure 12KV
02/09/06	337-7B	Fiber Position on 3 PH to 250KVA Cluster MT on SX 12KV
340 TRANSFORMERS OVERHEAD		
12/05/07	340	Trans. General Prot Trans and Series Multiple Connections
01/31/06	340-1	Transformer General Polarity Markings
07/06/06	340-2	Transformers General
03/12/07	341	Loading Guide
03/14/06	341-1	Transformer Fuse Schedule
01/23/06	341-1A	Circuits Requiring Current Limiting Fuses

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
01/23/06	341-1B	Circuits Requiring Current Limiting Fuses
01/23/06	341-1C	Circuits Requiring Current Limiting Fuses
01/23/06	341-1D	Circuits Requiring Current Limiting Fuses
11/25/08	341-1E	Circuits Requiring Current Limiting Fuses
11/25/08	341-1F	Circuits Requiring Current Limiting Fuses
05/07/02	341-2	Minimum Xfmr Lead Sizes for Single Phase Transformers
06/13/06	341-3	Minimum Tsfr Lead Sizes for 3 Phase Tsfrs and Banks
08/23/01	342	Three Phase Transformers
07/01/08	342-1	Three Phase Transformer Bank Connections General
09/02/08	342-2	Chart Three Phase Transformer Bank Connections
07/01/08	342-3	Check List Notes
08/14/08	342-4	Check List Notes
07/01/08	342-5	Check List Notes
08/14/08	342-6	Grnd Wye-Wye Bank for 120/208 Volt, 4 Wire Services
08/14/08	342-6.1	Grnd Wye - Grnd Wye Bank for 120/208 Volt, 4 Wire Service
08/28/08	342-6.2	Grnd Wye - Grnd Wye Bank for 277/480 Volt, 4 Wire Service
08/14/08	342-6.3	Grnd Wye - Grnd Wye Bank for 277/480 Volt, 4 Wire Service
08/08/08	342-6.4	Grnd Wye - Grnd Wye Bank for 277/480 Volt, 4 Wire Service
08/14/08	342-7	Grnd Wye-Wye Bank for 240 Volt 3 Wire Services
08/28/08	342-7.1	Grnd Wye - Wye Bank for 480 Volt 3 Wire Services
08/14/08	342-7.2	Grnd Wye - Wye Bank for 480 Volt 3 Wire Services
08/14/08	342-7.3	Grnd Wye - Wye Bank for 480 Volt 3 Wire Services
08/14/08	342-7.4	Grnd Wye - Wye Bank for 600 Volt 3 Wire Services
08/14/08	342-8	Wye-Delta Bank with 480 Volt 3 Wire Secondary
08/28/08	342-8.1	Wye - Delta Bank with 480 Volt 3 Wire Secondary
08/14/08	342-9	Wye-Delta Bank with 120/240 Volt, 4 Wire Secondary
08/14/08	342-10	Open Grnd Wye - Open Delta Bank for 240 Volt, 3 Wire Secondary
08/28/08	342-10.1	Open Grnd Wye - Open Delta Bank for 240 Volt, 3 Wire Secondary
08/28/08	342-10.2	Open Grnd Wye - Open Delta Bank for 480 Volt, 3 Wire Secondary
08/15/08	342-11	Open Grnd Wye - Open Delta Bank for 120/240 4 Wire Secondary
08/15/08	342-12	Delta-Grnd Wye Bank for 120/208 Volt, 4 Wire Services
08/15/08	342-12.1	Delta-Grnd Wye Bank for 277/480 Volt, 4 Wire Services
08/18/08	342-12.2	Delta-Grnd Wye Bank for 120/208 Volt, 4 Wire Services
08/18/08	342-13	Delta-Wye Bank for 480 Volt 3 Wire Services
08/28/08	342-13.1	Delta-Wye Bank for 480 Volt 3 Wire Services
07/30/08	342-13.2	Delta-Wye Bank for 600 Volt 3 Wire Services
08/19/08	342-14	Delta-Delta Bank for 240 Volt 3 Wire Services
08/19/08	342-14.1	Delta-Delta Bank for 240 Volt 3 Wire Services
08/29/08	342-14.2	Delta-Delta Bank for 480 Volt 3 Wire Services
08/19/08	342-15	Delta-Delta Bank for 120/240 Volt, 4 Wire Secondary
08/19/08	342-16	Open Delta - Open Delta Bank for 240 Volt, 3 Wire Secondary
08/19/08	342-16.1	Open Delta - Open Delta Bank for 240 Volt, 3 Wire Secondary

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
08/19/08	342-16.2	Open Delta - Open Delta Bank for 480 Volt, 3 Wire Secondary
08/19/08	342-17	Open Delta - Open Delta Bank with 120/240 Volt, 4 Wire Secondary
08/28/08	342-18	Open Wye - Wye Bank with 120/208 Volt, 4 Wire Secondary
07/09/08	342-19	Wye - 2 Phase Bank with 4 Wire Secondary
07/07/09	343-1A	1 PH Xfmr to 50KVA on Var Pole Position
08/24/01	343-1B	1 PH Xfmr to 50KVA on Pole Top Structure
01/25/06	343-1C	1 PH Xfmr to 50KVA on SX Structure
01/25/06	343-1D	1 PH Xfmr to 50KVA on SS Structure
01/25/06	343-1E	1 PH Xfmr to 50KVA Deadend Structure
07/07/09	343-2A	1 PH Xfmr 2 Bushing Conv To 50KVA Pole Top
05/18/09	343-2B	1 PH Xfmr 2 Bushing Conv To 50KVA Pole Top
07/07/09	343-2A	1 PH Xfmr to 100-167KVA Inst on P/T
05/15/09	343-2B	1 PH Xfmr to 100-167KVA Inst on P/T
07/07/09	343-3A	1 PH Stepdown DBL Deadend Inst 34KV W/Cutout
06/25/09	343-3B	1 PH Stepdown DBL Deadend Inst 34KV W/Cutout
07/07/09	343-4A	1 PH Xfmr 100 or 167KVA Conv on 3 PH SX
05/15/09	343-4B	1 PH Xfmr 100 or 167KVA Conv on 3 PH SX
07/07/09	343-5A	1 PH Xfmr 10-50 KVA on 3 PH SX 12 KV
05/18/09	343-5B	1 PH Xfmr 10-50 KVA on 3 PH SX 12 KV
07/07/09	343-7A	1 PH Xfmr 10-50 KVA on 3 PH SX 34 KV
05/15/09	343-7B	1 PH Xfmr 10-50 KVA on 3 PH SX 34 KV
07/07/09	343-8A	3 PH 34KV Cluster Mount up to 3-16KVA
05/15/09	343-8B	3 PH 34KV Cluster Mount up to 3-167KVA
07/07/09	343-9A	3 PH To 167KVA Cluster MT on SX 12KV
06/25/09	343-9B	3 PH To 167KVA Cluster MT on SX 12KV
07/07/09	343-10A	3 PH Xfmr Unit Conv on SX Structure 12KV
05/15/09	343-10B	3 PH Xfmr Unit Conv on SX Structure 12KV
07/07/09	343-11A	3 PH Platform Mounted S/D Xfmr Bank
05/15/09	343-11B	3 PH Platform Mounted S/D Xfmr Bank
05/15/09	343-11C	3 PH Platform Mounted S/D Xfmr Bank
06/25/09	343-11D	3 PH Platform Mounted S/D Xfmr Bank
07/07/09	344-1A	1 PH Xfmr TO 50KVA SPCR CBL 12KV
02/24/06	344-1B	1 PH Xfmr TO 50KVA Tang Spacer CBL STR 12KV
02/24/06	344-1C	1 PH Xfmr TO 50KVA ON SS Spacer CBL STRUCT.
07/07/09	344-2A	1 Phase Xfmr to 50Kva Spacer Cable Deadend Structure
02/24/06	344-2B	1 Phase Xfmr to 50Kva Spacer Cable Deadend Structure
07/07/09	344-3A	3 Phase Cluster Mount 34KV up to 3-167KVA
07/07/09	344-3B	3 Phase Cluster Mount 34KV up to 3-167KVA
		345 SERVICES
10/29/01	345	General Services
10/25/01	345-1B	Triplex Service Detail

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
12/18/98	345-2	Midspan Triplex Cable Tap
12/22/08	345-3	Temporary Seasonal Decoration Installation
07/12/07	345-4	Neutral Isolator
01/27/06	346-1B	1 PH Primary Metering Inst. For UG Riser 7.2KV
02/06/06	346-1C	1 PH Primary Metering Inst. For UG Riser 7.2KV
01/27/06	346-2B	3 PH Primary Metering Inst. Inline 12KV
05/02/02	346-2C	3 PH Primary Metering Inst. Inline 12KV
02/07/06	346-3B	3 PH Primary Metering Inst. For UG Riser 12KV
01/30/06	346-3C	3 PH Primary Metering Inst. For UG Riser 12KV
04/19/02	346-4B	3 PH Primary Metering Inst. Cluster Mount 35KV
02/06/06	346-4C	3 PH Primary Metering Inst. Cluster Mount 35KV
04/19/02	346-5B	3 PH Primary Metering Inst. Cluster Mount 35KV W/Bypass
02/06/06	346-5C	3 PH Primary Metering Inst. Cluster Mount 35KV W/Bypass
350 CONDUCTORS		
09/10/08	350	General
03/01/06	351	Tree Wire - General
05/12/09	352	Characteristics of Low Voltage Aerial Triplex and Quadraplex Cable
02/06/06	352-1	Characteristics of Aluminum Conductors
01/30/06	352-2	Characteristics of MHD Copper Conductors
01/30/06	352-3	Characteristics of Composite Conductors
09/10/08	352-4	Characteristics of Aluminum Conductors
01/30/06	352-5	Characteristics of Bare ACSR Conductors
10/01/01	354	Conductor Sagging - General Information
08/24/01	354-1	336,400 CM Bare Aluminum Wire 150 Ft. Ruling Span
08/24/01	354-2	336,400 CM Bare Aluminum Wire 250 Ft. Ruling Span
08/24/01	354-3	336,400 CM Bare Aluminum Wire 300 Ft. Ruling Span
08/24/01	354-4	336,400 CM Aluminum 8 KV Tree Wire 150 Ft. Ruling Span
08/24/01	354-5	336,400 CM Aluminum 8 KV Tree Wire 250 Ft. Ruling Span
08/24/01	354-6	336,400 CM Aluminum 15KV Tree Wire 150 Ft. Ruling Span
08/24/01	354-7	336,400 CM Aluminum 15KV Tree Wire 250 Ft. Ruling Span
08/24/01	354-8	336,400 CM Aluminum 35KV Tree Wire 150 Ft. Ruling Span
08/24/01	354-9	336,400 CM Aluminum 35KV Tree Wire 250 Ft. Ruling Span
08/24/01	354-10	#1/0 AAAC Bare Wire 150 Ft. Ruling Span
08/24/01	354-11	#1/0 AAAC Bare Wire 250 Ft. Ruling Span
08/24/01	354-12	#1/0 AAAC Bare Wire 300 Ft. Ruling Span
08/24/01	354-13	#1/0 AAAC 8 KV Tree Wire 150 Ft. Ruling Span
08/24/01	354-14	#1/0 AAAC 8 KV Tree Wire 250 Ft. Ruling Span
08/24/01	354-15	#1/0 AAAC 15KV Tree Wire 150 Ft. Ruling Span
08/24/01	354-16	#1/0 AAAC 15KV Tree Wire 250 Ft. Ruling Span
08/24/01	354-17	#1/0 AAAC 35KV Tree Wire 150 Ft. Ruling Span
08/24/01	354-18	#1/0 AAAC 35KV Tree Wire 250 Ft. Ruling Span

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
08/24/01	354-19	#4/0 AWG Stranded Bare Copper MHD 150 Ft. Ruling Span
08/24/01	354-20	#4/0 AWG Stranded WP Copper MHD 150 Ft. Ruling Span
08/24/01	354-21	#2/0 AWG Stranded Bare Copper MHD 150 Ft. Ruling Span
08/24/01	354-22	#2/0 AWG Stranded Bare Copper MHD 250 Ft. Ruling Span
08/24/01	354-23	#2/0 AWG Stranded WP Copper MHD 150 Ft. Ruling Span
08/24/01	354-24	#2/0 AWG Stranded WP Copper MHD 250 Ft. Ruling Span
08/24/01	354-25	#1/0 AWG Stranded Bare Copper MHD 150 Ft. Ruling Span
08/24/01	354-26	#1/0 AWG Stranded Bare Copper MHD 250 Ft. Ruling Span
08/24/01	354-27	#1/0 AWG Stranded WP Copper MHD 150 Ft. Ruling Span
08/24/01	354-29	#2 Solid Bare Copper MHD 150 Ft. Ruling Span
08/24/01	354-30	#2 Solid Bare Copper MHD 250 Ft. Ruling Span
08/24/01	354-31	#2 Solid WP Copper MHD 150 Ft. Ruling Span
08/24/01	354-32	#2 Solid WP Copper MHD 250 Ft. Ruling Span
08/24/01	354-33	#4 Solid Bare Copper MHD 150 Ft. Ruling Span
08/24/01	354-34	#4 Solid Bare Copper MHD 200 Ft. Ruling Span
08/24/01	354-35	#4A Copper Copperweld Conductor 150 Ft. Ruling Span
08/24/01	354-36	#4A Copper Copperweld Conductor 250 Ft. Ruling Span
08/24/01	354-37	#6A Copper Copperweld Conductor 150 Ft. Ruling Span
08/24/01	354-38	#6A Copper Copperweld Conductor 250 Ft. Ruling Span
08/24/01	354-39	3 Phase 15KV 336.4 Al. Spacer Cable with 052 AWA
08/24/01	354-40	3 Phase 15KV 336.4 Spacer Cable with 052 AWA Messenger
08/24/01	354-41	3 Phase 35KV 336.4 Al. Spacer Cable with 052 AWA Messenger 150 Ft. Ruling Span
08/24/01	354-42	3 Phase 35KV 336.4 Al. Spacer Cable with 052 AWA Messenger 200 Ft. Ruling Span
08/24/01	354-43	3 Phase 15KV 1/0 AAAC Spacer Cable with 052 AWA Messenger 150 Ft. Ruling Span
08/24/01	354-44	3 Phase 15KV 1/0 AAAC Spacer Cable with 052 AWA Messenger 200 Ft. Ruling Span
08/24/01	354-45	3 Phase 35KV 1/0 AAAC Spacer Cable with 052 AWA Messenger 150 Ft. Ruling Span
08/24/01	354-46	3 Phase 35KV 1/0 AAAC Spacer Cable with 052 AWA
08/24/01	354-47	3 Phase 15KV 1/0 AAAC Spacer Cable with 052 AWA Messenger 150 Ft. Ruling Span
08/24/01	354-48	Single Phase 15KV 1/0 AAAC Spacer Cable with 052 AWA Messenger 250 Ft. Ruling Span
01/31/02	354-49	#1/0 Aluminum Triplex Secondary Cable 150 Ft. Ruling Span
01/31/02	354-50	#2 Aluminum Triplex Secondary Cable 150 Ft. Ruling Span
08/24/01	354-51	336,400 CM Aluminum Service Drop Cable
08/24/01	354-52	#1/0 Aluminum Triplex Service Drop Cable
01/30/06	354-53	#2 Aluminum Triplex Service Drop Cable

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
		360 UG & URD SYSTEMS
08/21/08	360	General
08/22/08	360-1	URD and UG Systems (cont'd)
08/18/08	361	Primary Riser - General
08/21/08	361-1A	Secondary Or Service URD Riser Single Conduit
08/18/08	361-1B	Secondary Or Service URD Riser Single Conduit
08/21/08	361-2A	Primary URD Riser Single Conduit
08/18/08	361-2B	Primary URD Riser Single Conduit
08/22/08	361-3A	Conduit Standoff Bracket for Multiple Riser on 1 Pole
08/19/08	361-3B	Conduit Standoff Bracket for Multiple Riser on 1 Pole
07/07/09	361-4A	1 PH Riser from Pole Top Inst
06/22/06	361-4B	1 PH Riser from Pole Top Inst
07/07/09	361-5A	1 PH Riser from Deadend Inst
06/22/06	361-5B	1 PH Riser from Deadend Inst
07/07/09	361-6A	1 PH Riser from SX Structure
06/22/06	361-6B	1 PH Riser from SX Structure
07/07/09	361-7A	1 PH Riser Loop Feed from Pole Top
06/22/06	361-7B	1 PH Riser Loop Feed from Pole Top
07/07/09	361-7.1A	1 Phase Riser Loop Feed from Dead End
03/01/06	361-7.1B	1 Phase Riser Loop Feed from Dead End
07/07/09	361-8A	1 PH Riser Loop Feed from SX Struct
06/22/06	361-8B	1 PH Riser Loop Feed from SX Struct
07/07/09	361-8.1A	1 Phase Riser Loop Feed from SX Structure Single Conduit
06/22/06	361-8.1B	1 Phase Riser Loop Feed from SX Structure Single Conduit
07/07/09	361-8.2A	1 PH Riser Loop Feed Transitional
12/06/06	361-8.2B	1 PH Riser Loop Feed Transitional
07/07/09	361-9A	3 PH Station Riser 3 Wire 34 KV
06/22/06	361-9B	3 PH Station Riser 3 Wire 34 KV
07/07/09	361-10A	3 PH Riser, 3 WireFuse with Air Break 34KV
04/17/09	361-10B	3 PH Riser, 3 WireFuse with Air Break 34KV
07/07/09	361-11A	3 PH Riser 4W with Fuse Air Break 34KV
04/17/09	361-11B	3 PH Riser 4W with Fuse Air Break 34KV
07/07/09	361-12A	3 PH Riser 3 Wire 12 KV
12/04/06	361-12B	3 PH Riser 3 Wire 12 KV
07/07/09	361-13A	3 PH Riser 4 Wire 12 KV
12/28/07	361-13B	3 PH Riser 4 Wire 12 KV
07/07/09	361-14A	3 PH Riser 4 Wire with Air Break 12KV
12/18/07	361-14B	3 PH Riser 4 Wire with Air Break 12KV
07/07/09	361-15A	3 PH Spacer Cable 4 Wire Riser 12KV
05/12/09	361-15B	3 PH Spacer Cable 4 Wire Riser 12KV
06/25/09	361-16	URD Riser Extension
08/23/01	363	Cable Installation - General

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
10/01/01	363-1	Minimum Cover Requirements 0-600 Volts
10/01/01	363-2	Minimum Cover Requirements 600 - 22 KV
07/30/08	363-3	Underground Cable Trench for Power Only
07/30/08	363-4	Underground Cable Installation Jointly Used Trench Horizontal Separation
07/30/08	363-5	Underground Cable Installation Jointly Used Trench Vertical Separation
06/04/08	364	Padmount Transformer Layout for Direct Buried System
02/24/06	364-1	Padmount Transformer Layout for Continuous System
05/12/09	364-2	Fiberglass Handhole w/Cover
09/26/08	364-3	Fiberglass Box Pad
09/26/08	364-4	Primary Junction Box Fiberglass Covers
06/26/08	364-5	Single Ph. Concrete Tsfr Foundation & Install 25 to 167 KVA
08/22/08	364-6	Single Ph. Concrete Tsfr Foundation & Install 25 to 167 KVA
09/08/08	364-7	Small(7'x7') Three Phase Transformer Foundation
08/22/08	364-8	Small(7'x7') Three Phase Transformer Foundation
09/08/08	364-9	Large (9'x9') Three Phase Transformer Foundation
08/22/08	364-10	Large (9'x9') Three Phase Transformer Foundation
05/12/09	364-11	Temp. Feed Through Bushing Park Stand
10/29/01	365	Pad Mounted Transformers - General
11/18/06	365-1	Bay-O-Net Fuses for Transformers
08/11/06	365-2	Padmount Transformers
06/27/06	365-3	Padmount Transformer 35KV Large Interface
07/14/06	365-4	Single Phase Feed Thru Padmount Transformer Installation
06/22/06	365-5	Dead Front and Live Front Pad Mount Transformers
06/22/06	365-6	3 PH Dead Front Loop Feed Transformers
02/15/06	366	Cable Characteristics
07/14/06	366-1	Primary Cable Splicing Material
02/15/06	367	34 and 15 KV Primary Cable Terminators
04/30/08	367-1	15KV URD 200 Amp Material
07/12/07	367-2	15KV 600 Amp Elbow Connectors
04/30/08	367-3	35KV URD 200 Amp Material
02/16/06	367-4	35KV 600 Amp Elbow Connectors
05/12/09	368-1	URD Switching Tools and Equipment
10/01/01	368-2	15KV Switching General Instructions
10/29/01	368-3	15KV Switching General Instructions
10/01/01	368-4	URD Switching Procedure Cables
09/11/01	368-5	15KV Switching Procedures Transformers
02/12/09	369-1	Cable Rack Component
		370 TIES GENERAL
10/01/01	370	Ties - General

INDEX

<u>REVISION</u>	<u>PAGE</u>	<u>DESCRIPTION</u>
08/24/01	370-1	Cold Ties
08/24/01	370-2	Hot Line Ties - Single Insulator
08/24/01	370-3	Hot Line Ties - Double Insulator
380 GROUNDING		
08/24/01	380	Grounding General
08/24/01	380-2	Power Cable Grounding
05/12/09	380-3	Ground Road Assembly
06/23/06	380-4	Switch Handle Groundmat
390 CLAMPS AND CONNECTORS		
02/21/06	390	Clamps and Connectors
08/24/01	390-1	Splices and Deadends
10/01/01	390-2	Sleeve and Deadend Holding Requirements
08/24/01	390-3	Recommended Torque Values for Bolted Connectors
395 AREA LIGHTING		
03/14/06	395-1	Underground Street and Area Lighting Requirements
10/16/06	395-2	Decorative Pole Layouts
02/07/06	395-3	Underground Feed Layout
03/15/06	395-4	Streetlighting Equipment
02/21/06	395-5	Plant Identification Luminaire Marking
02/07/06	395-6	Marking Installation Date Codes
04/10/08	395-7	Street Light and Area Light Connections
02/07/06	395-8	Direct-Buried Post Top Installations
02/07/06	395-9	Open Sodium Fixture Installation
02/07/06	395-10	Flood Light Installation
02/07/06	395-11	Mongoose Installation
02/21/06	395-12	Minimum Bracket Size for Given Fixture Size and Bracket Length
02/07/06	395-13	Mounting Height of Fixtures
02/06/06	395-14	6, 8, 10, 15, 20 Foot Brackets
03/01/06	395-15	Floodlight Brackets
03/15/06	395-16	H.P. Sodium and Metal Halide Fixture Ballast Data
02/06/06	395-17	Lamp Data
397 MISC		
02/16/06	397-1	Crossarm Changer Installation Instructions Tangent Structure
399 CONTRACTOR ITEM CATALOG		
09/20/02	399	Contractor Item Catalog
10/24/02	399-1	Acceptable Alternate Poles
12/03/02	399-2	Acceptable Alternate Poles

INDEX

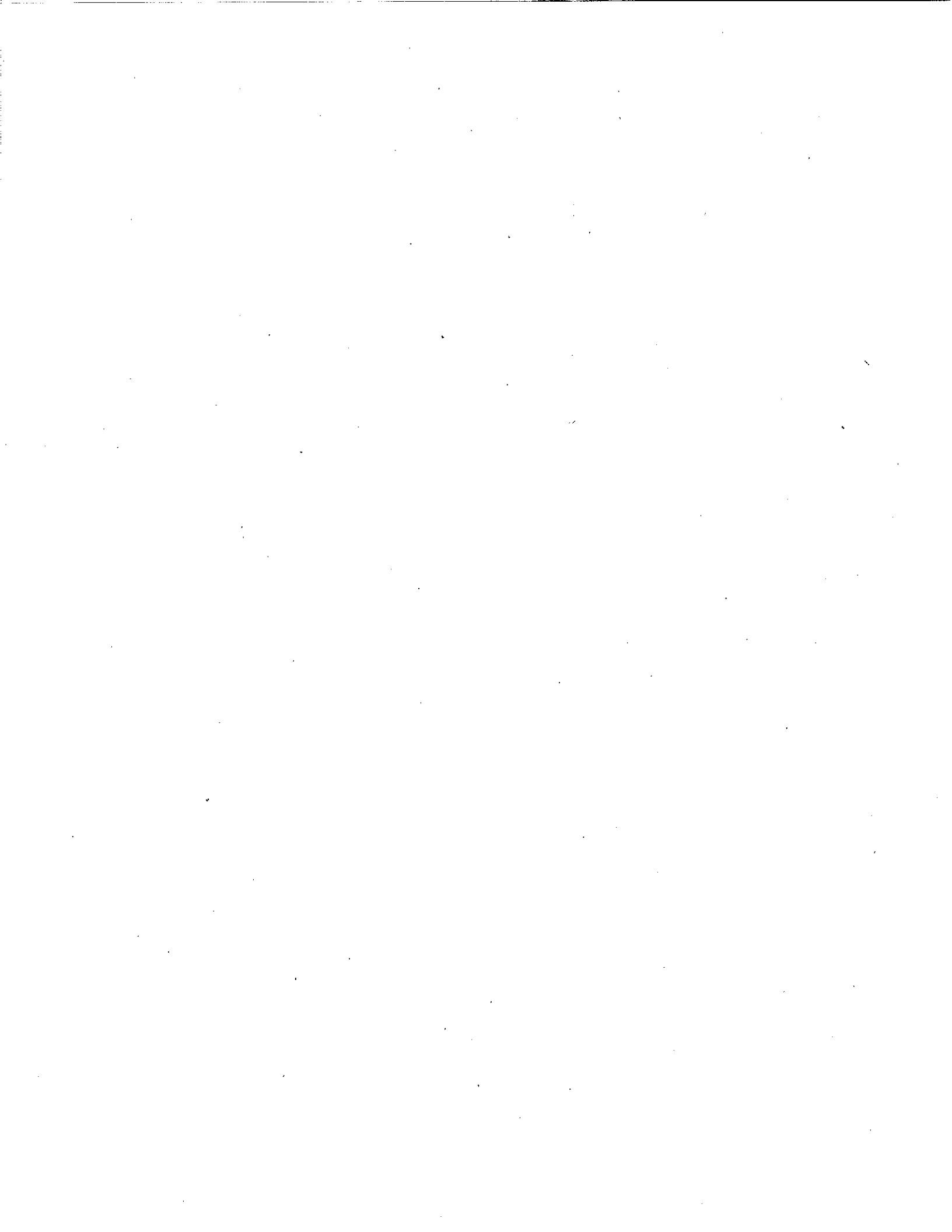
REVISION

PAGE

DESCRIPTION

12/06/06

Approved Contractor Materials and Supply Catalog



MACRO INDEX

301-2

<u>MACRO</u>	<u>MACRO PAGE</u>	<u>PRINT PAGE</u>	<u>DESCRIPTION</u>
C6MC1AAF	311-8A	311-8B	1 PH Fiberglass Alley Arm Structure
C6MC1DDEC	311-14A	311-14B	1 PH Deadend Corner Structure
C6MC1DE	311-13A	311-13B	1PH Deadend Structure
C6MC1DX	311-7A	311-7B	1PH Double Xarm Offset
C6MC1PT	311-1A	311-1B	1PH Pole Top Structure
C6MC1PTE30	311-2A	311-2B	1PH Pole Top Extension 30 In.
C6MC1PTG	311-6A	311-6B	1 PH Pole Top Structure With Guy
C6MC1SCA60-90	331-3A	331-3B	1 PH Spacer CBL 60-90 FT Angle 12KV
C6MC1SCA6-60	331-2A	331-2B	1 PH Spacer CBL To 60 FT Angle 12KV
C6MC1SCDE	331-4A	331-4B	1 PH Spacer CBL Deadend Structure 12KV
C6MC1SCOWT	331-5A	331-5B	1 PH Spacer CBL Open Wire Transition 12KV
C6MC1SCT	331-1A	331-1B	1 Phase Spacer Cable Tangent Structure 12KV
C6MC1SCTFPT	331-6A	331-6B	1 PH Spacer CBL Tap From Pole Top ST 12KV
C6MC1SDDDE	321-2A	321-2B	1 PH Sectionalizing Disc. Dbl Deadends
C6MC1SDIL	321-1A	321-1B	1 PH Sectionalizing Disconnect with Inline Deadend
C6MC1SS	311-9A	311-9B	1PH Semi-Strain Structure.
C6MC1SX	311-3A	311-3B	1PH Single Xarm Structure
C6MC1TFISS	311-12A	311-12B	Single Phase Tap from Inside Semi-Strain
C6MC1TFPT	311-4A	311-4B	1PH Tap from Pole Top Structure
C6MC1TFPT2W	311-5A	311-5B	1PH Tap from Pole Top Structure 2 Way
C6MC1TFSS	311-10A	311-10B	Single Phase Take Off from Semi-Strain Structure
C6MC1TFSSPTE60	311-11A	311-11B	1 PH Tap from Semi-Strain Structure W/60 in. FG Ext.
C6MC2DX26-50	312-3A	312-3B	2 PH Double Xarm Angle Pin to 50' Corner
C6MC2DX6-25	312-2A	312-2B	2 PH Double Xarm 6-25' Corner
C6MC2SXO-6	312-1A	312-1B	2 PH Single Xarm 0-6' Corner
C6MC31TFSX	313-3A	313-3B	1 PH Tap from 3 PH Xarm Structure

<u>MACRO</u>	<u>MACRO PAGE</u>	<u>PRINT PAGE</u>	<u>DESCRIPTION</u>
C6MC32TFSX	313-4A	313-4B	Two 1 PH Taps from 3 PH Xarm Structure
C6MC3AA	313-10A	313-10B	3 PH Alley Arm Structure
C6MC3AAF-15	313-11A	313-11B	3 PH Fiberglass Alley Arm Structure up to 15ft Corner
C6MC3DDEA	313-16A	313-16B	3 PH Double Deadend Angle
C6MC3DDS/D12	323-2A	323-2B	3 Ph Sectionalizing Disc using Double Deadends 12KV
C6MC3DE	313-19A	313-19B	3 PH Deadend Structure
C6MC3DX6-25	313-12A	313-12B	3 PH Double Xarm up to 25' Corner
C6MC3DXAP	313-15A	313-15B	3 PH Double Arm Angle Pin
C6MC3DXBUCK	313-17A	313-17B	3 PH Double Buckarms over 50' Corner
C6MC3DXIAB12	324-1A	324-1B	3 PH Airbreak Switch Inline 12KV
C6MC3DXIAB34	324-2A	324-2B	3 PH Airbreak Switch Inline 34 KV
C6MC3DXO	313-14A	313-14B	3 PH Double Xarm Offset
C6MC3DXTF12	313-6A	313-6B	3 PH Double Xarm Tap Fused from 12 KV
C6MC3DXTNF	313-5A	313-5B	3 PH Double Xarm Tap N/Fused
C6MC3ILS/D12	323-1A	323-1B	3 Ph Sectionalizing Disc Using In-Line D/E 12KV
C6MC3SC1TFSX	331-7A	331-7B	1 PH Spacer CBL Tap From 3PH SX STR 12KV
C6MC3SCA6-60	333-4A	333-4B	3PH Spacer CBL Angle Struct 6-60 FT 12KV
C6MC3SCDDEPG	333-7A	333-7B	3PH Spacer CBL DBL D/E Preform Grip 12KV
C6MC3SCDE	333-6A	333-6B	3PH Spacer Cable Deadend 12KV
C6MC3SCDE-OW	333-8A	333-8B	3PH Spacer CBL Deadend To Open Wire 12KV
C6MC3SCI6-25	333-5A	333-5B	3PH Spacer CBL Inside Angle 6-25 FT 12KV
C6MC3SCOWT	333-9A	333-9B	3PH Spacer CBL Open Wire Tap 12KV
C6MC3SCPTE30	333-2A	333-2B	3PH Spacer CBL 30 IN Pole Top Ext 12KV
C6MC3SCPTE60	333-3A	333-3B	3PH Spacer CBL 60 IN Pole Top Ext 12KV
C6MC3SCTAN	333-1A	333-1B	3PH Spacer CBL Tangent Structure 12KV
C6MC3SPC/30B	333-10A	33-10B	3PH Spacer CBL W/3PH Overbuild STR 12KV
C6MC3SX	313-1A	313-1B	3 PH Single Xarm up to 6' Corner
C6MC3SXO	313-9A	313-9B	3 PH Single Xarm Offset Structure

<u>MACRO</u>	<u>MACRO PAGE</u>	<u>PRINT PAGE</u>	<u>DESCRIPTION</u>
C6MC3TXBUCK	313-18A	313-18B	3 PH Triple Arm Buckarms over 50' Corner
C6MC3TXDE	313-20A	313-20B	3 PH Triple Xarm Deadend
C6MC3TXTF12	313-8A	313-8B	3 PH Triple Xarm Tap Fused from 12 KV
C6MC3TXTNF	313-7A	313-7B	3 PH Triple Xarm Tap N/Fused
C6MH1DDE	325-2A	325-2B	1 PH Reel Inst Down Double D/E
C6MH1PT4UPL	325-1A	325-1B	1 PH Reel Inst #4 Cond & Up In Line
C6MH21DXI	325-3A	325-3B	2 1 PH Reel Inst in Line DBL Xarm
C6MH3DDE12	325-6A	325-6B	3 Ph Reel Inst 12 KV DBL Deadends
C6MH3DDE20012	325-7A	325-7B	3 PH Reel over 2000 Amp Dbl Deadend 12 KV
C6MH3DDE34	325-8A	325-8B	3 PH Reel Inst 34 KV Dbl Deadends
C6MH3ID12	325-4A	325-4B	3 PH Reel 12KV inline Disconnect 1/0 and 336
C6MH3ILDDESX12	325-5A	325-5B	3 PH Reel Inline Deadend Sgl Xarm 12KV
C6MI1DX12C	319-2A	319-2B	1 PH Voltage Regulator 12KV Center Ph
C6MI1DX12F	319-3A	319-3B	1 PH Voltage Regulator 12KV Field Ph
C6MI1DX12R	319-1A	319-2B	1 PH Voltage Regulator 12KV Road Ph
C6M3PMVR	319-4A	319-4B-D	3 PH Platform Mounted Voltage Regulator
C6MK1PT	315-1A	315-1B	1 PH Capacitor on Pole Top Inst
C6MK1PTBU	315-2A	315-2b	1 PH Capacitor Pole Top W/Blocking Unit
C6MK3DXBU34	316-3A	316-3B	3 PH Capacitor Bank w/Blocking Units 34 KV
C6MK3DXCB12Y	316-1A	316-1B	3 PH Capacitor Bank 12 KV Grounded Wye
C6MK3DXCB34	316-2A	316-2B	3 PH Capacitor Bank 34 KV Grounded Wye
C6MP3PTE0-6	313-2A	313-2B	3 PH Pole Top Extension F/G Single Xarm
C6MP3PTE6-25	313-13A	313-13B	3 PH Pole Top Extension F/G Double Xarm
C6MPGGA	309-14A	309-14B	Guy Grounded Aerial
C6MPGGA/FGSL78	309-15A	309-15B	Guy Grounded Aerial w/78in FG St Link
C6MPGGD	309-12A	309-12B	Guy-Grounded Down
C6MPGGD/FGSL	309-13A	309-13B	Guy-Gruanded Down with Fiberglass Strain Link
C6MPGSWG	309-16A	309-16B	Guy Grounded Sidewalk Assembly

<u>MACRO</u>	<u>MACRO PAGE</u>	<u>PRINT PAGE</u>	<u>DESCRIPTION</u>
C6MT3PR3W/AB34	361-10A	361-10B	3 PH Riser, 3 Wire Fuse with Air Break 34KV
C6MT3PR4W/AB34	361-11A	361-11B	3 PH Riser 4W with Fuse Air Break 34KV
C6MU1PRDE	361-5A	361-5B	1 PH Riser from Deadend Inst
C6MU1PRLFDE	361-7.1A	361-7.1B	1 Phase Riser Loop Feed from Dead End
C6MU1PRLFPT	361-7A	361-7B	1 PH Riser Loop Feed from Pole Top
C6MU1PRLFSX	361-8A	361-8B	1 PH Riser Loop Feed from SX Struct
C6MU1PRLFSX1CON	361-8.1A	361-8.1B	1 Phase Riser Loop Feed from SX Structure Single Con
C6MU1PRLFTRANS	361-8.2A	361-8.2B	1 PH Riser Loop Feed Transitional
C6MU1PRPT	361-4A	361-4B	1 PH Riser from Pole Top Inst
C6MU1PRSX	361-6A	361-6B	1 PH Riser from SX Structure
C6MU3PR3W12	361-12A	361-12B	3 PH Riser 3 Wire 12 KV
C6MU3PR4W/AR12	361-14A	361-14B	3 PH Riser 4 Wire with Air Break 12KV
C6MU3PR4W12	361-13A	361-13B	3 PH Riser 4 Wire 12 KV
C6MU3PSC4WR12	361-15A	361-15B	3 PH Spacer Cable 4 Wire Riser 12KV
C6MU3PSR3W	361-9A	361-9B	3 PH Station Riser 3 Wire 34 KV
C6MX1	343-1A	343-1B-E	1 PH Xfmr to 50KVA on Var Pole Position
C6MX1PT167	343-2A	343-3B	1 PH Xfmr to 100-167KVA Inst on P/T
C6MX1PT50CON	343-2A	343-2A	1 PH Xfmr 2 Bushing Conv To 50KVA Pole Top
C6MX1SC	344-1A	344-1B	1 PH Xfmr TO 50KVA SPCR CBL 12KV
C6MX1SCDE	344-2A	344-2B	1 Phase Xfmr to 50Kva Spacer Cable Deadend Structure
C6MX1SD34DDECO	343-3A	343-4B	1 PH Stepdown DBL Deadend Inst 34KV W/Cutout
C6MX1SX167	343-4A	343-5B	1 PH Xfmr 100 or 167KVA Conv on 3 PH SX
C6MX1SX5012	343-5A	343-6B	1 PH Xfmr 10-50 KVA on 3 PH SX 12 KV
C6MX1SX5034	343-7A	343-7B	1 PH Xfmr 10-50 KVA on 3 PH SX 34 KV
C6MX3CM34K167S	344-3A	344-3B	3 Phase Cluster Mount 34KV up to 3-167KVA
C6MX3P34K167CM	343-8A	343-8B	3 PH 34KV Cluster Mount up to 3-16KVA
C6MX3PMSDXB	343-11A	343-11B-C	3 PH Platform Mounted S/D Xfmr Bank
C6MX3SX167CM12	343-9A	343-9B	3 PH To 167KVA Cluster MT on SX 12KV

<u>MACRO</u>	<u>MACRO PAGE</u>	<u>PRINT PAGE</u>	<u>DESCRIPTION</u>
C6MX3SXUC12	343-10A	343-10B	3 PH Xfmr Unit Conv on SX Structure 12KV







This section deals with the identifying markers, signs, and numbers used throughout the Central Maine Power Company Distribution System. Directions for the numbering of poles and the numbering of underground distribution are provided within this section.

All poles within the Central Maine Power Company's Distribution System shall be marked, and the owner identified by either a property tag or by the letter "P" indicating private ownership. Underground distribution is to be marked in the field, so that all equipment points will show the assigned number. All underground cable appearing at any equipment point shall be tagged to show the location of the far ends of the cable.

All reclosers, sectionalizers, oil switches, and air break switches shall be numbered for identification. Disconnects, (fused or solid blade), placed between numbered switches will be numbered. Normally, disconnects placed beyond the last numbered switch shall not be numbered. Any particular switch considered a potential problem shall be numbered.

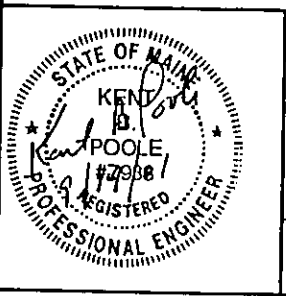
All distribution shall be numbered as directed in the following. The use of this numbering system shall apply to all new plant and all old plant being renumbered. This numbering system shall also apply to all underground distribution systems, except the Portland Network and other extensive urban manhole and conduit systems. On underground distribution where a line starts aerially on a road and then goes underground, the numbering shall continue consecutively from the last pole. All underground equipment locations of any type: manhole, pull hole, hand hole, junction box, dry well, switch point, padmount transformer, etc., shall be numbered (Exception: Meter pedestals shall not be numbered).

Various other signs and markings are used on Central Maine Power Company's distribution plant. These are included on the following pages concerning plant identification.

DESIGNED	DRAWN	DATE	REVISED	REVISED	REVISED
CS	REC	08/23/01			

DESIGNED	DRAWN	DATE	ORIGINAL	REDRAWN
	GRG	7/27/94		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



PAGE 303-1	DESCRIPTION PLANT IDENTIFICATION OVERHEAD	MACRO
---------------	--	-------

Pole lines shall be numbered as follows:

1. The basic line on a street shall be numbered from 1 to 499.
2. The second line on the same street shall be numbered from 501 to 699.
3. The third line on the same street shall be numbered from 701 to 799.
4. The fourth line on the same street shall be numbered from 801 to 899.
5. The fifth line on the same street shall be numbered from 901 to 999.

Note: The practice of placing zeros before the basic pole number shall not be used. If the number of poles on a line exceeds the numbers available, two (2) or more of the above series may be combined.

6. Tap lines up to 9 poles may be numbered as point lines by adding a decimal point and sequential numbers to the main line pole number. See 501.1-501.9 opposite.
7. A second top line from a main line pole up to 9 poles may be numbered as a point zero line by adding a decimal point, zero, and numbering. See 501.01-501.09 opposite. (See #10)
8. Tap lines up to 9 poles may be numbered off point poles by adding a second digit. See 501.61-501.69 opposite. (See #10)
9. Tap lines over 9 poles must be given a name and road code and numbered.
10. No more than 2 digits may follow the decimal point.
11. The only fraction allowed is the 1/2 or the stub of this fraction i.e. 1/2 S. Point poles may not be fed from S poles. As necessary, renumber the succeeding or preceding poles, or name and renumber the tap.
12. When a line crosses a town baundry it shall be numbered in the 1 to 499 series starting with the number 1 on the first structure after crossing the town baundry. If there is an existing line on the street using the 1 to 499 series, number according to 2., 3., 4. or 5. above.
13. WARNING - The plant numbers are not to be regarded as always indicating the direction of feed. Wherever possible such numbers are applied away from the source, but this has not been followed 100%, especially in congested areas. For safety, the number sequence is to be disregarded entirely as an indication of direction of feed when deenergizing sections of line on which work is to be done.

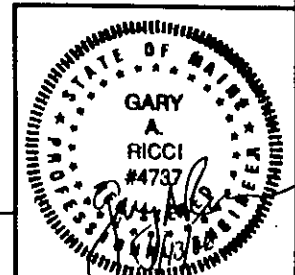
DESIGNED	LLF	CS	CS
DRAWN	GRG	CMH	REC
DATE	2/6/97	8/23/01	02/24/06



East

DESIGNED	REORAWN
DRAWN	GRG
DATE	7/12/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

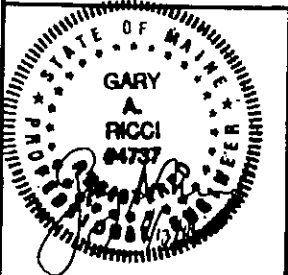
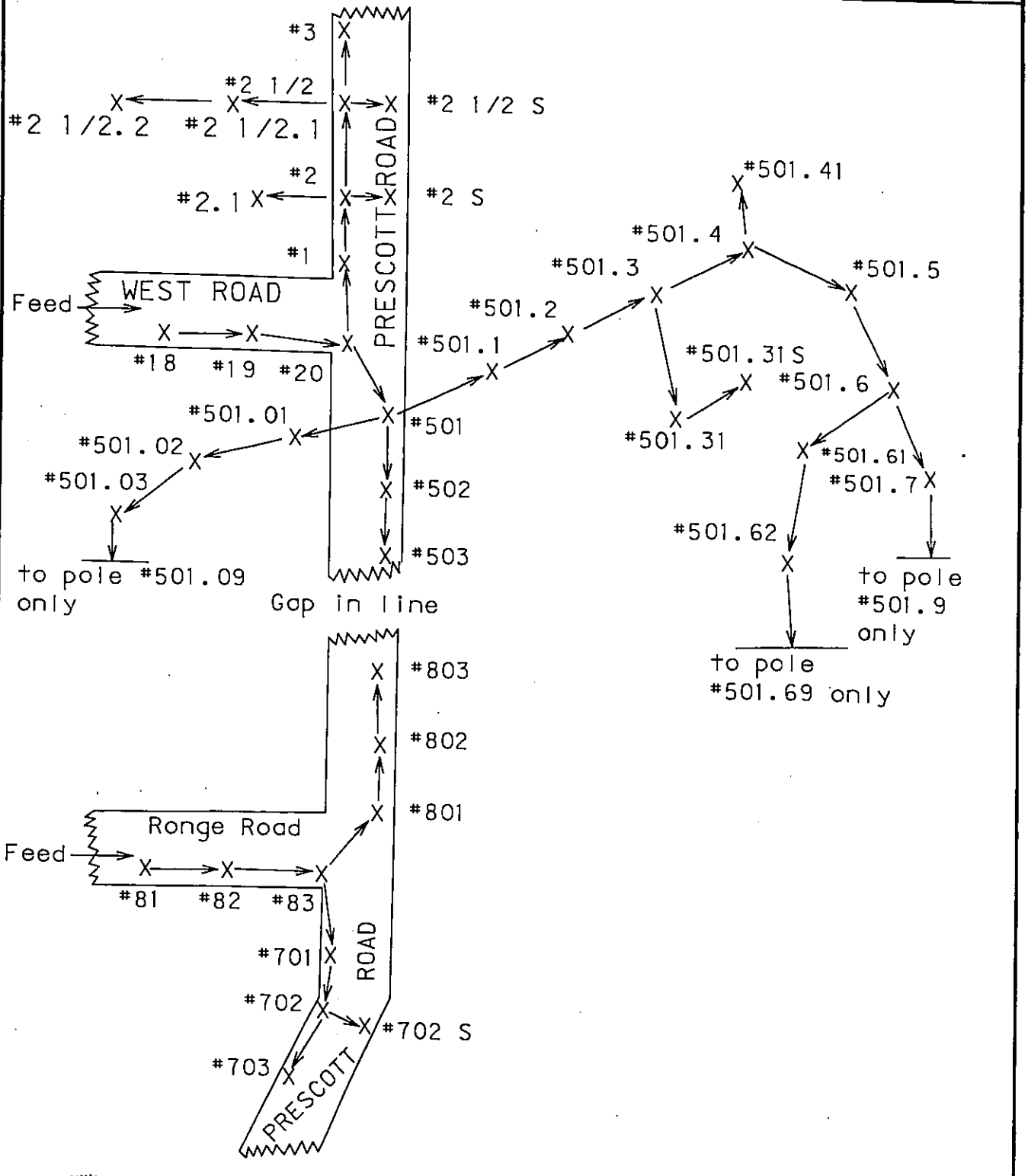


DESIGNED	REVISED	REVISED	REVISED
CS	CS	CS	CS
DRAWN	DRAWN	DRAWN	DRAWN
CMH	CMH	CMH	CMH
DATE	DATE	DATE	DATE
B/23/01	B/23/01	B/23/01	02/07/06



ORIGINAL	REDESIGNED	REDESIGNED	REDESIGNED
DRAWN	DRAWN	DRAWN	DRAWN
GRC	GRC	GRC	GRC
DATE	DATE	DATE	DATE
7/12/94			

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



PAGE 303-3	DESCRIPTION PLANT IDENTIFICATION UNDERGROUND	MACRO
---------------	---	-------

Underground Distribution shall be numbered as overhead plant with the following differences:

1. Lines that run partly overhead and partly underground on a street shall be numbered with a single sequence of numbers.
2. Every equipment location such as pad mounts, junction boxes, pull boxes or any cable access points (Primary or Secondary) shall be numbered as a pole would be numbered.
3. When an equipment location is added between two existing sequentially numbered equipment locations, a 1/2 suffix shall be added to the preceding equipment location number and that half number shall mark the new location.

Example: Adding a pad between pad 2 and pad 3 the new pad shall be marked 2 1/2.

Half (1/2) is the only fraction allowed. Any additional locations will require more extensive renumbering.

4. Each underground cable shall be marked at every location where a cable terminates (Primary or Secondary). The cable shall be marked with the number designation of the location where the other end of the cable terminates. If the termination location of any existing cable changes, that cable shall be renumbered to reflect the new locations.

5. Underground service cables shall have a letter designation for identification, starting with the letter A at the source. Service cables shall be marked at both ends. A letter designation at the source and at the meter location the cable shall be marked with the number indicating the location of the power source followed by a dash and then the service letter designation.

Example: If there are three services from pad mount transformer 2.3, each of the service ends in the pad would be marked A, B & C. At the meter end, the service cables would be marked 2.3-A, 2.3-B & 2.3-C.

6. Parallel lay, cables, (primary, Secondary or Service) run between the same points shall be labeled 1 of 2 and 2 of 2 etc. in addition to the number and or letter designation.

Example #1: Parallel service from pad mount transformer 2.01 to meter A, the cables in the pad shall be marked A 1 of 2 and A 2 of 2. The cables in the meter compartment shall be marked 2.01-A 1 of 2 and 2.01-A 2 of 2.

Example #2: Two primary cables rising on pole 101 and both cables terminate in pad 101.1. At the pole one cable shall be marked pad 101.1 1 of 2 and the other marked pad 101.1 2 of 2. At the pad one cable shall be marked pole 101 1 of 2 and the other cable marked pole 101 2 of 2. The inside of the cable compartment shall be labeled CAUTION MULTIPLE CABLES using label MID # 6000815454.

7. The numbering of equipment is not to be regarded as an indication of the direction of feed.

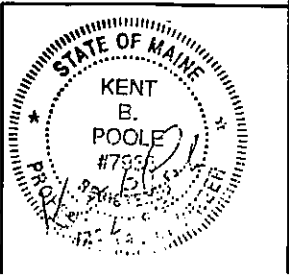
DESIGNED	JEC	CS
DRAWN	GRG	REC
DATE	6/19/95	11/21/05



YEAST

DESIGNED	REDRAWN
DRAWN	GRG
DATE	7/6/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ON

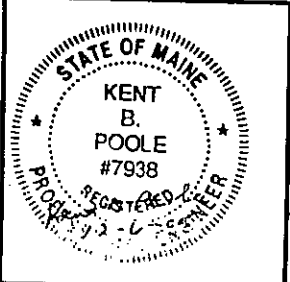
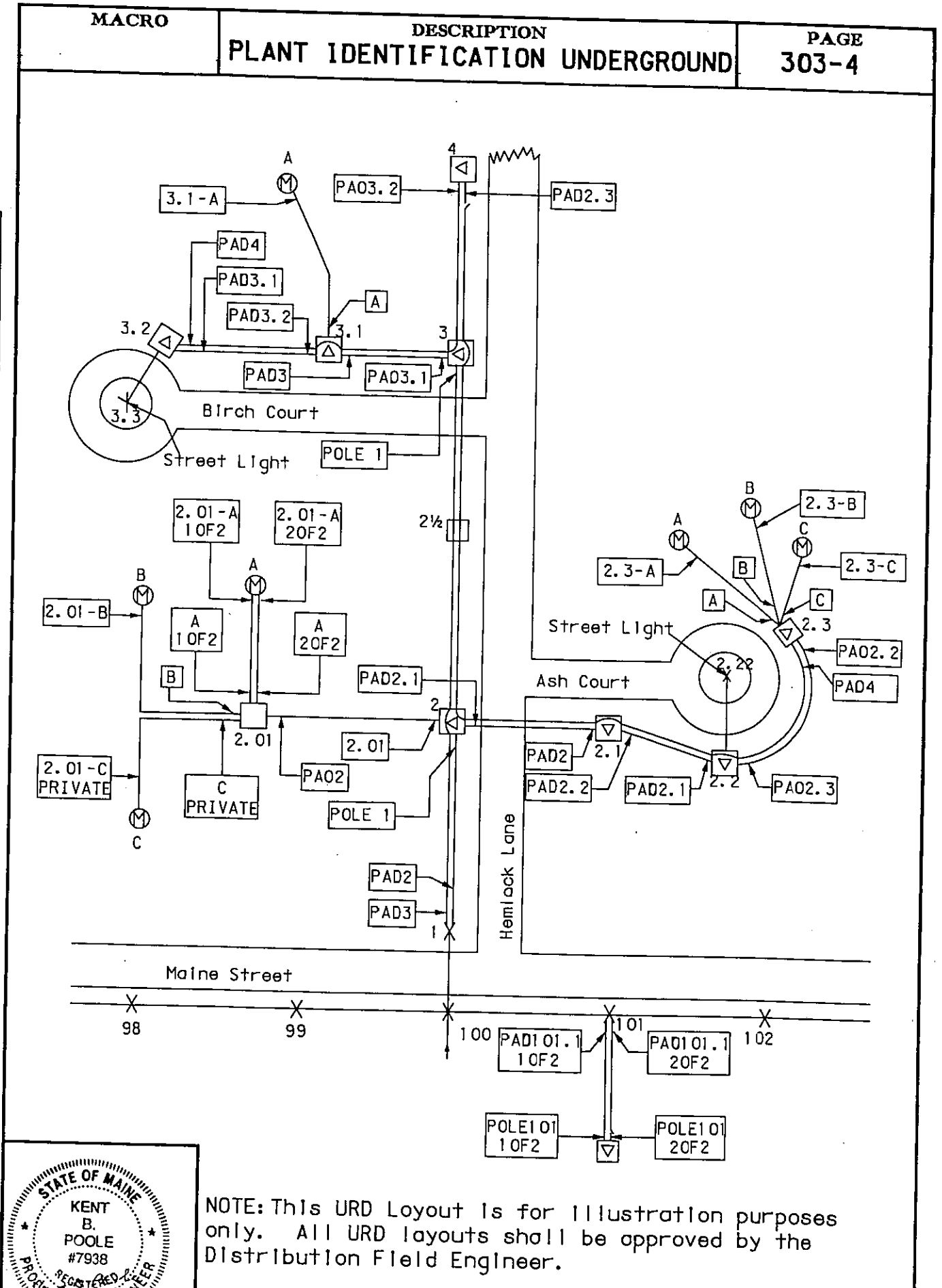


DESIGNED	REVISOR	REVISION	DATE
CS	CS		
CMH	REC		
8/23/01	12/06/05		



DESIGNED	REVISOR	REVISION	DATE
GRG	GRG		
7/12/94			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



PAGE 303-5	DESCRIPTION PLANT IDENTIFICATION POLES	MACRO
---------------	---	-------

Every Central Maine Power Company (CMPCo.) pole is to bear a date tag (MID*600081551) a CMPCo. property tag (MID*6000815519) and number (MID*6000815520 to MID*6000815529). Property tags and pole numbers shall be placed approximately six feet from the ground on the road side of the pole. On private property, where not legible from any road, markers shall be placed on the side facing the source. The tags and numbers shall be attached to all poles by 1" galvanized nails, whereby two nails are required for each tag, letter, or figure. Nails (MID*6000815515) are issued by weight averaging 900 per pound. Date tags shall be attached on the road side of the pole approximately one foot above the ground with 1/2 inch head roofing nail (MID*6000815516).

On jointly-used poles, a joint user may apply their number to the pole, but only the pole owner shall apply a property tag. Telephone Company poles, jointly used by CMPCo., will each be marked with the TEL. Co. property tag, the TEL. Co. pole number, and the CMPCo. pole number. All jointly-used poles shall have a CMPCo. pole number on them, regardless of whether or not the CMPCo. number is the same as the TEL. Co. number. Spacing between the CMPCo. numbers and TEL. Co. numbers shall be approximately 12".

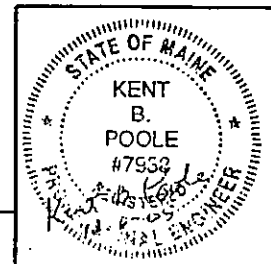
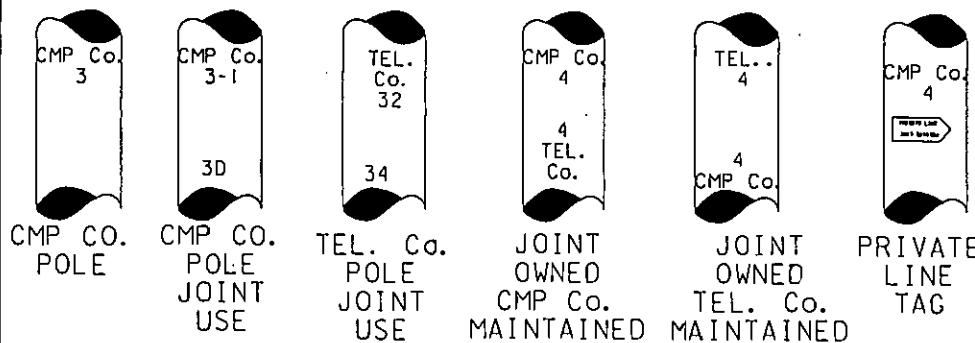
Jointly owned poles shall bear the property tags and numbers of both companies. The property tag and number of the company maintaining the pole shall be located above the tags and numbers of the joint owners, but it should be noted that this is not true for all cases.

A prefix letter "P" (MID*6000815542) shall be used with the pole number for each pole on privately owned lines. No property tag shall be used on privately owned lines. A private line tag (MID*6000815518) shall be attached to the last CMPCo. pole feeding a private line with the point on the tag pointing towards the private line.

A suffix letter "S" (MID*6000815544) shall be used with the number on guy stubs. The number on the stub shall be the same as the pole being supported.

Push braces will not be numbered.

Decimal points will be made with a 1/2" head roofing nail (MID*6000815516) placed halfway between the top and bottom of the figures.



DESIGNED	CS
DRAWN	REC
DATE	10/03/01
	11/21/05

E
IV/EAST

DESIGNED	REDRAWN
DRAWN	GRC
DATE	7/6/94

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ON



MACRO	DESCRIPTION	PAGE
PLANT IDENTIFICATION URD EQUIP & CABLE		303-6

All underground distribution equipment points shall be marked inside and out as follows:

- (1) Pad mount transformers
Pad mount equipment
The number on the inside shall be placed on the lid or door to show plainly when open and be marked with adhesive numbers (MID# 6000815570 to 6000815580).
The number on the outside shall be placed on the upper right front corner of the door or lid with adhesive numbers.
- (2) Manhole
Splice Pit
Handhole
Junction Box
The number on the inside shall be stenciled with contrasting paint on a wall where it will be easily seen when the containment is entered. If it is desired or it is not practical to stencil the number on the wall, adhesive numbers may be placed on a piece of metal plate and the plate attached to a wall or hung from a cable or a cable rack.
The number on the outside shall be either brazed or stenciled on the cover. The number shall be renewed as necessary.
- (3) Meter Enclosures
On the inside the service letter shall be included on the cable label.

Open points in loop feed systems shall be marked with a "DON'T TIE ALIVE" (MID#6000825625) sign if fed from two different sources. The open point in the loop feed system shall be located in the cable compartment of a padmount transformer so that all cable is energized. This transformer shall be marked with N.O. label. (MID# 6000815463).

Where more than one phase is used to supply single phase equipment, phase identification shall be placed inside and outside the equipment. The phase identification shall be placed below the equipment number.

All underground distribution primary and secondary cables shall be labeled at both ends to show the location of the far ends. Service cables shall have both ends marked with the same number consisting of the source number followed by a dash (-) and the service letter (i.e 2-A, 2-B). Service cables running from service to service shall be marked at both ends with the source number, space, the service letter nearer the source, a dash, and the service letter further from the source (i.e. 2 A-B). In the case of cables with direct buried taps, labels shall show the location of all remote ends, with the various numbers arranged one above the other, to prevent confusion. Privately owned cables entering CMPCo. owned equipment, padmount transformers or rising on CMP poles shall be labeled PRIVATE.

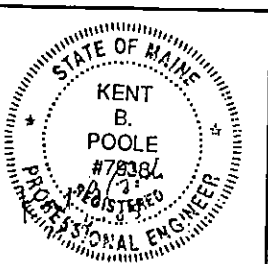
Labels shall consist of polyethylene cable labels. (MID# 6000815407 to 6000815446). When more than one number is to be placed on a cable, as far cables with direct buried taps, each number shall be on a separate line. To prevent the labels from slipping down out of sight, one label holder band shall be put around only one conductor of triplex URD cable, and around part of the neutral wires on primary URD cable as close as possible to where the neutral leaves the cable.

DESIGNED	REVISOR	REVISION
DRAWN	CS	REC
DATE	CMH	11/21/05
	10/15/01	

EnergyEast

DESIGNED	REVISOR	REVISION
DRAWN	GRC	
DATE	7/7/94	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



DON'T TIE ALIVE

'DON'T TIE ALIVE' (MID#6000825625) signs shall be posted at all distribution tie points or switches that cannot be closed with both lines energized. On switches with handles near the ground, the sign shall be placed near the handle where it can be easily noticed by the switch operator. In the case of cutouts placed at the top of the pole, the sign shall be posted below the crossarm braces under the switch number.

**DON'T
TIE
ALIVE**

black letters with
a yellow background

VOLTAGE SIGN

A sign shall be placed on any pole that has two primary circuits which cannot be tied together and are dead-ended on the same pole. The sign shall consist of the standard switch number holder, board, and characters. The board shall be placed parallel with the road and mounted at the same height as a switch number. The position of the characters on the board shall indicate the voltage of the primary circuit on that side of the pole.

example: **12KV / 34.5KV**

NOTE: This situation is not to be permanent. The voltage sign shall be used only in areas where lines are being cutover to higher voltages and the cutover work has been temporarily stopped.

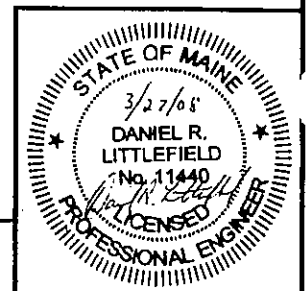
NOTE: Permanent Deadends - Two circuits that deadend on one pole, that must not be tied together and that will remain this way for some time, shall have a second set of deadends installed one full span back on one of the lines so that there is a dead span of wire in the line.

NOTE: Tap Lines - All of the notes above shall also apply to tap lines that are fed from other sources and are deadended on main line poles. Tap lines shall not be permanently deadended on main line poles unless they can be fed from the main line.

STEP UP TRANSFORMER

Step up transformer sticker (MID# 70000860) shall be installed on all transformers used to step up voltage.

NOTICE
**Step Up
Transformer**



DO NOT REVISION UN THE
CADD SYSTEM ONLY

DRAWN
DATE 07/17/94
GRG

Emer

East

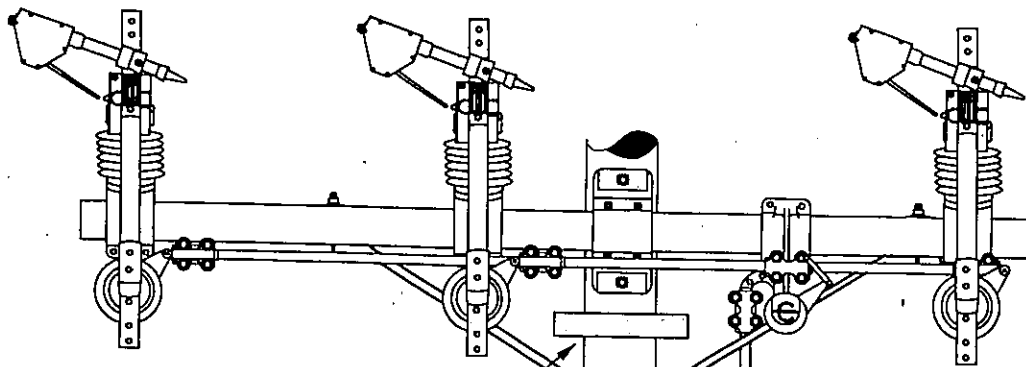
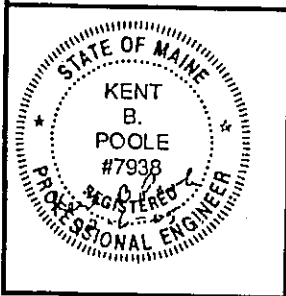
Switch numbers shall be placed on oil switches, reclosers, sectionalizers, and air break switches. Disconnects shall be numbered when they are located between two numbered switches. Disconnects located after the last numbered switch shall not normally be numbered. The numbers shall be placed under the crossarm and between the crossarm braces. For oil switches, reclosers, sectionalizers and disconnects, the number shall be positioned on the cutout side of the pole. For air break switches, the number shall be positioned under the switch frame away from any obstruction.

DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
08/23/01	11/30/05		



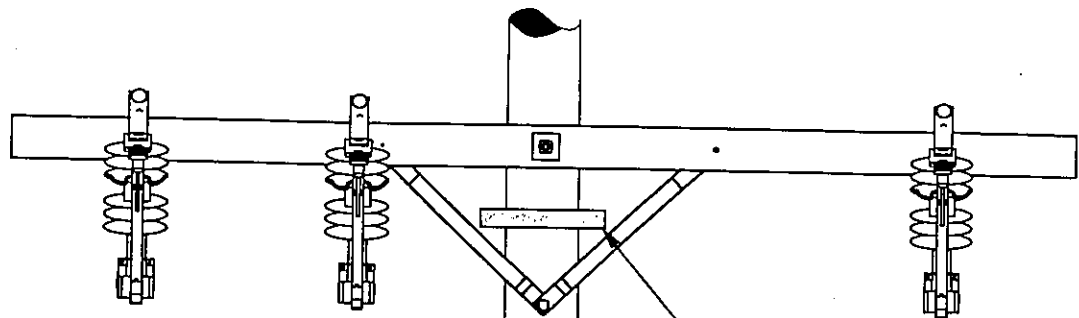
DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	DATE
7/7/94	GRG

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Switch Number

Air Break Switch



Switch Numbers

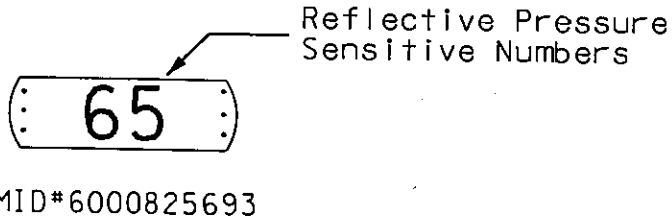
Numbers shall be placed below brace if standard position conflicts with clearance requirements.

Sectionalizers, Reclosers, Etc.

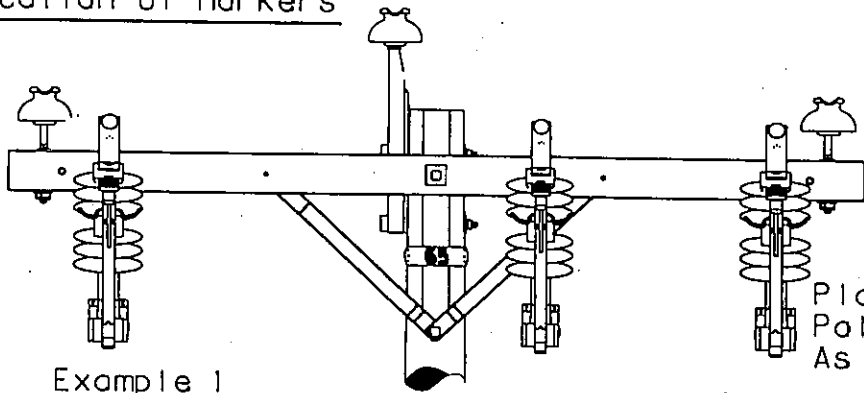


All fused cutouts shall have markers near the cutout to indicate fuse size. The marker shall be a 3 1/8" X 9" aluminum, 4 character horizontal switch number holder (MID#6000825693) High reflective pressure sensitive characters (of various stock codes) shall be placed on the switch holder specifying fuse size.

Fuse sizes are limited to 3, 6, 10, 15, 25, 40, 65, 100, 140, and 200 amps.

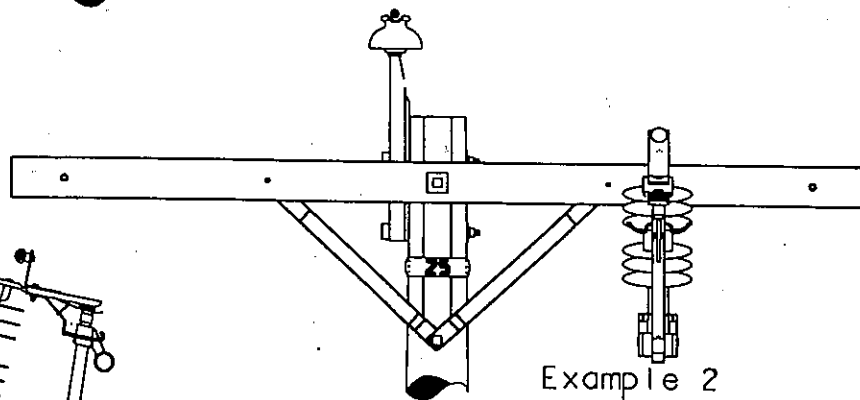


Location Of Markers

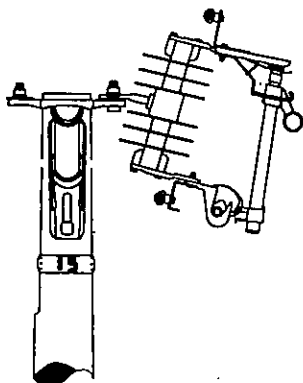


Place Marker on The Pole Under The Crossarm As Shown

Example 1



Example 2



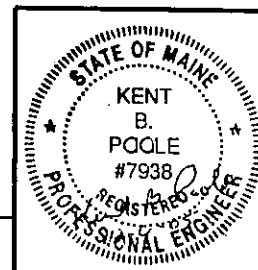
Example 3

DESIGNED	JEC	REVISED	REVISED
DRAWN	GRC	CS	REVISED
DATE	8/22/95	REC	CS
		REC	REVISED
		10/15/01	11/28/05



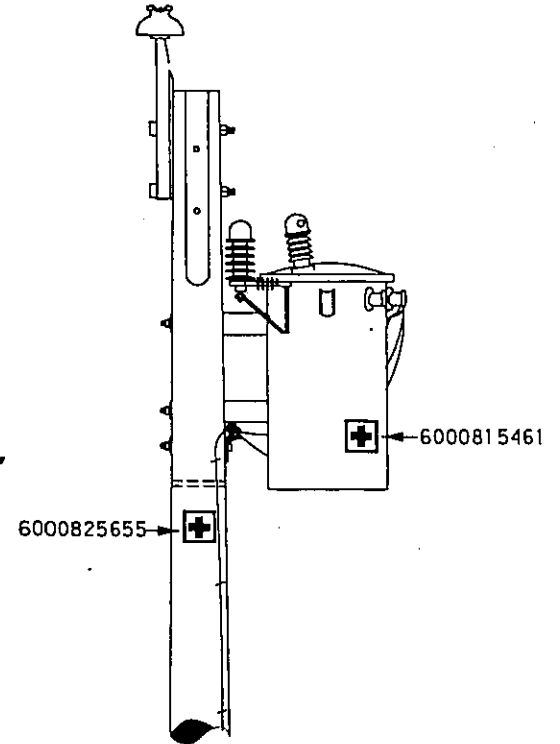
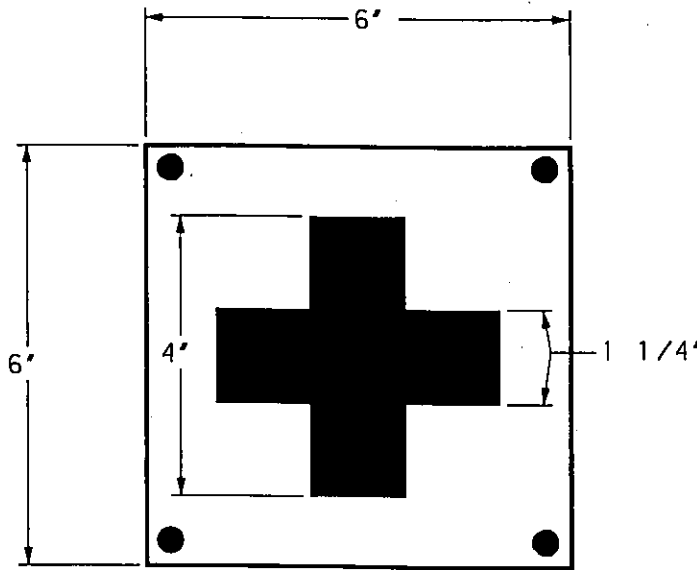
DESIGNED	REDRAWN	ORIGINAL
DRAWN	GRC	
DATE	7/8/94	

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



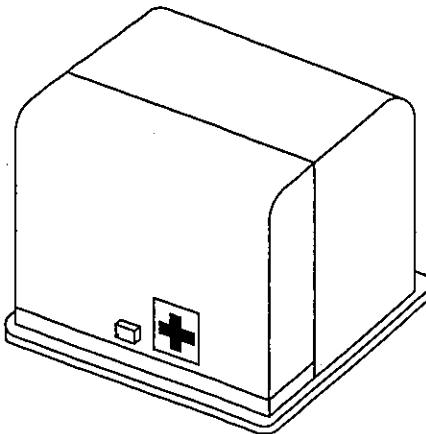
Transformers known to serve customers with electrically operated life support devices shall be marked with a sign. The sign is 6' X 6' with a red cross on a white background. MID#6000825655 is designed to be securely attached to the pole in a clearly visible location immediately below the transformer. MID#6000815461 is magnetic and is applied to the transformer tank.

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	06/13/06	



DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	CRG
	7/8/94

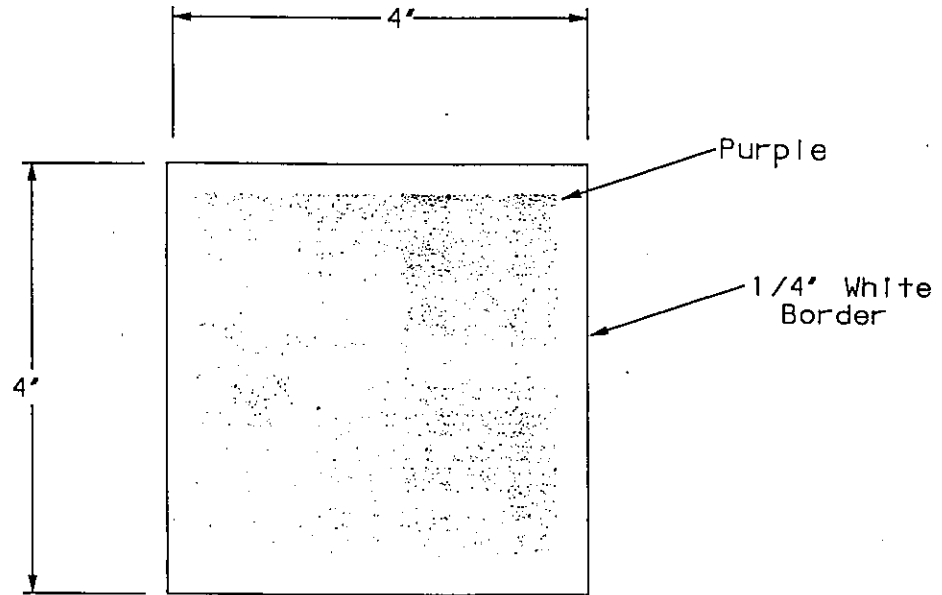
Pad mounted transformers shall be marked by applying a label (MID#6000815462) to the cover adjacent to the lock.



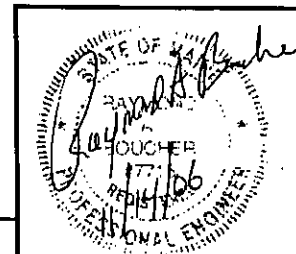
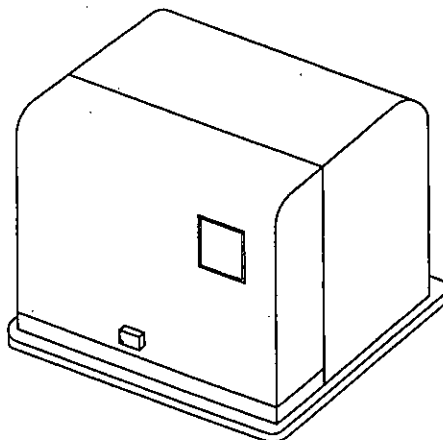
THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY



Single Phase, 19.9 kv, large interface pod mounted transformers (MID#D865494, D865294, D865194), shall be marked with a sticker to identify them as possible sectionalizing points. The sticker is 4' X 4' with 1/4' white border. Purple, HI gloss vinyl. Outdoor grade, with permanent acrylic adhesive, temp rated for -50 F to 180 F.



19.9 kv, single phase, large interface pad mounted transformers, shall be marked by applying a label (MID#6000815475) to the upper right hand corner of the cover.



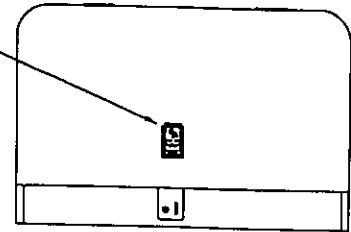
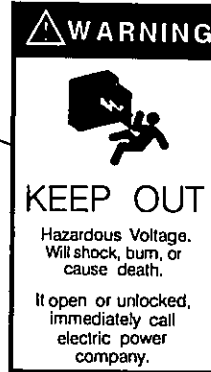
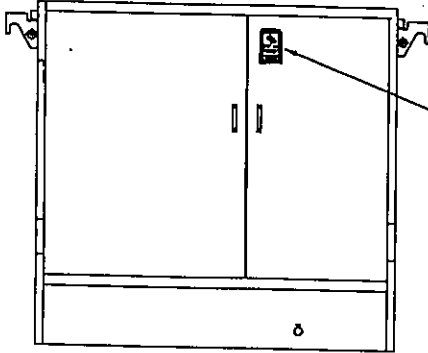
REVISIONS	
DRAWN	
DATE	



REVISIONS	
DRAWN	
DATE	
REC	
DATE	07/06/06

BE REVISED ON THE
CADD SYSTEM ONLY

OUTSIDE (Orange background at top)

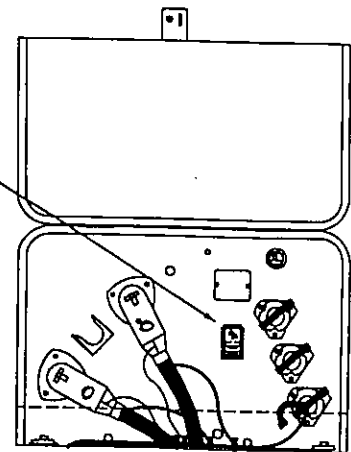
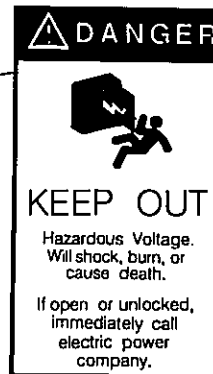
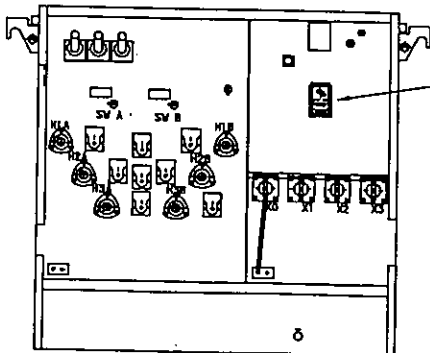


DESIGNED	LLF	REVISED	REVISED	REVISED
DRAWN	CRG	REC	REC	REC
DATE	5/28/96	10/15/01	04/14/06	

All padmounted equipment containing energized conductors shall be labeled on the outside with a WARNING label MID*6000815447 mounted above the locking handle. Switchgear or translosures with doors on multiple sides shall have labels on each side having a door.



INSIDE (Red background at top)

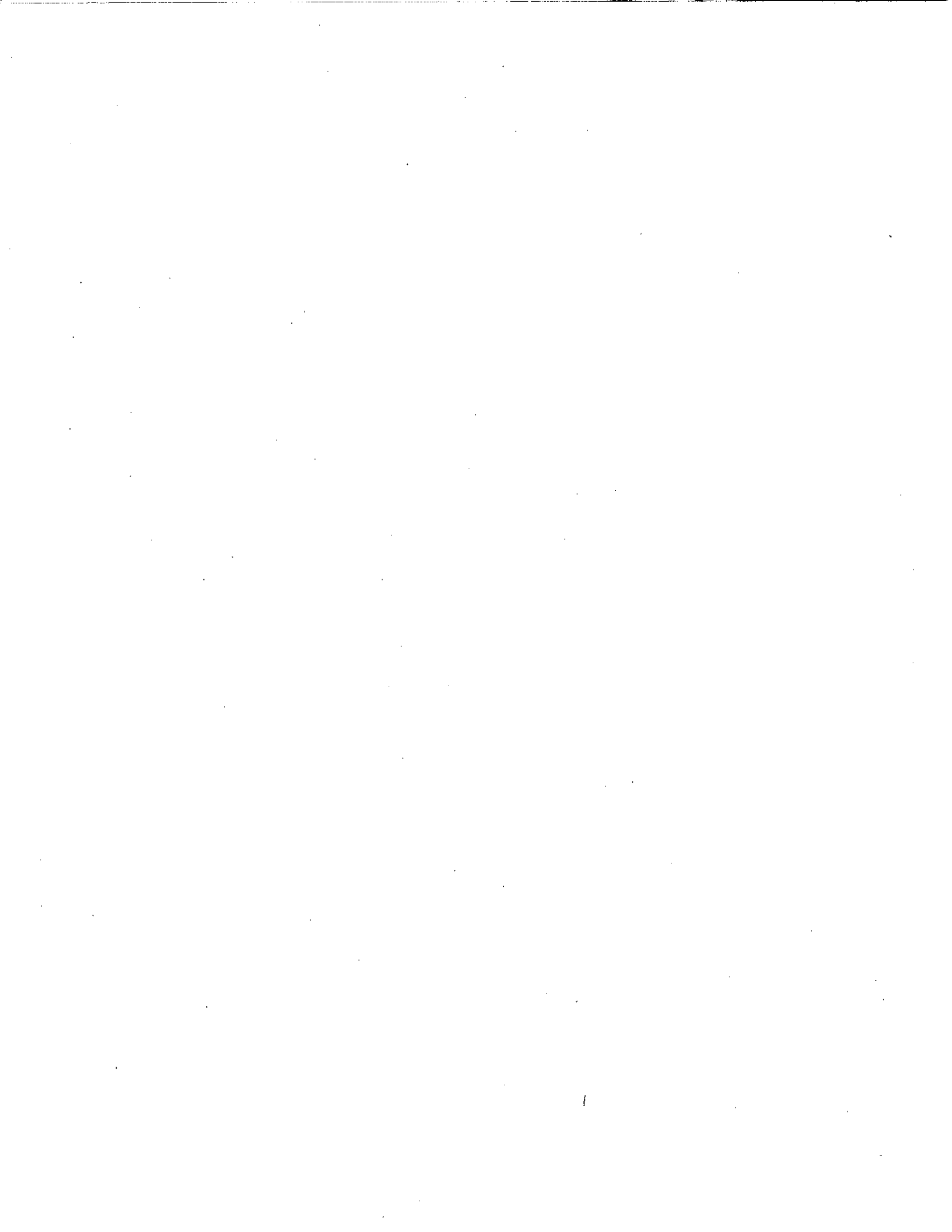


DESIGNED	REDRAWN
DRAWN	CRG
DATE	7/12/94

All padmounted equipment containing energized conductors shall be labeled on the inside with DANGER labels MID*6000815448 mounted in a location plainly visible when the doors are open.

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY









Line Voltages

Standard distribution voltages are 12,470grdy/7200 and 34,500grdy/19,920 volt; a few lines are operating at other voltages.

All overhead line construction repairs and replacements are to be built to 12,470grdy/7,200 volts specifications except those distribution circuits operating at 34,500grdy/19,920 volt or anticipated for cutover to 34,500grdy/19,920 volt shall be built to 34,500grdy/19,920 volt specifications. Those specifications include but are not limited to replacement poles, cross arms, insulators, and clearances. All overcurrent devices and surge arresters shall be appropriate for actual operating voltage.

The following circuits are designated for 34,500grdy/19,920 volt.
Capital Region

<u>Circuit</u>	<u>Source</u>	<u>Area</u>	<u>Category (volt)</u>
20406	Washington St.	To Popham	34,500grdy/19,920
21703	Cooks Corner	To Bailey Island	34,500grdy/19,920
24601	Thomaston Creek	To St. George	Future
26201	Puddledock	To Mt. Vernon Readfield	34,500grdy/19,920
26301	Bowman St.	To Randolph Pittston Dresden	34,500grdy/19,920
80001	Lincolnton	To Lincolnton Northport	34,500grdy/19,920
80306	Belfast West Side	To Searsmaunt	34,500grdy/19,920
80602	Bucksport	To Penobscot Castine	34,500grdy/19,920
84601	Prospect	To Winterport Frankfort	Future

Northern Region

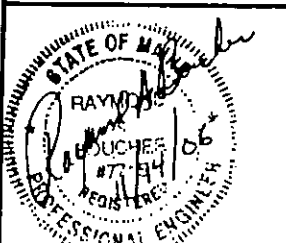
428K4	Livermore Falls	To James River	34,500grdy/19,920
44702	Rumford	To Canton	34,500grdy/19,920
82302	Harris	To Jackman	34,500grdy/19,920
83402	Monson	To Greenville Rockwood	34,500grdy/19,920
85801	Sturtevant	To Greater Farmington	34,500grdy/19,920
87301	Rice Rips	To Belgrade, Oakland, Smithfield	34,500grdy/19,920
87501	Rangleey	To All	34,500grdy/19,920
87701	Strotton	To All	Future
88201	Bigelow	To Stratton	34,500grdy/19,920
88202	Bigelow	To Sugarloaf	34,500grdy/19,920

DESIGNED	JEC	REVISOR	CS	DATE	10/16/06
DRAWN	GRG	REVISOR	REC	DATE	10/22/01
DATE	8/7/95	REVISOR	REC	DATE	10/16/06

DESIGNED	REDBAWN	REVISOR	GRG	DATE	5/26/95
DRAWN	GRG	REVISOR	GRG	DATE	5/26/95
DATE	5/26/95	REVISOR	GRG	DATE	5/26/95



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



PAGE 304-1	DESCRIPTION LINE VOLTAGES	MACRO
-----------------------------	--	--------------

Line Voltages

The following circuits are designated for 34,500grdy/19,920 (volts)

Lokes Region

<u>Circuit</u>	<u>Source</u>	<u>Area</u>	<u>Category (volts)</u>
420D4	Hotel Rd.	To All	34,500grdy/19,920
420D6	Hotel Rd.	To Poland Spring	34,500grdy/19,920
420D7	Hotel Rd.	All	34,500grdy/19,920
438D1	Papoose Pond	All	34,500grdy/19,920
445D1	Raymond 115	All	34,500grdy/19,920
454D1	Turner	To North Turner	Future
456D2	Wales Corner	All	34,500grdy/19,920

York County Region

602D1	Bassett	All	34,500grdy/19,920
603D2	Berwick	To Lebanon	Future
605D1	Biddeford Pump	To Goodwin's Mills	Future
612D1	Butlers Corner	To Lebanon	Future
612D2	Butlers Corner	To Acton	Future
640D2	Ogunquit	To Moody	Future
681D2	Branch Brook	To Wells	Future
685D3	Bolt Hill	To Kittery Point	Future
691D1	Baldwin Tap	To Sebago	34,500grdy/19,920
692D1	Hiram Tap	To Cornish	34,500grdy/19,920

Greater Portland Region

636D1	Mussey	All	34,500grdy/19,920
636D2	Mussey	All	34,500grdy/19,920
668D4	Spring	All	34,500grdy/19,920
668D6	Spring	All	34,500grdy/19,920
693D1	Scarborough	To Payne Rd. Mussey Rd	34,500grdy/19,920
693D2	Scarborough	To Payne Rd. Industrial Park Connector, Scottow Hill Rd	34,500grdy/19,920
696D1	Red Brook	All	34,500grdy/19,920
696D2	Red Brook	All	34,500grdy/19,920
696D3	Red Brook	All	34,500grdy/19,920

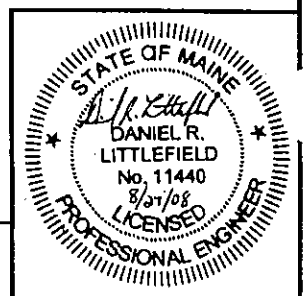
CADD SYSTEM ONLY

DRAWN
DATE 5/30/95
GRG



AST

2 Added circuits greater Portland del York County 08/20/08



DISTRIBUTION CONSTRUCTION STANDARDS

CENTRAL MAINE POWER CO.







MACRO	DESCRIPTION CLEARANCES	PAGE 305
-------	----------------------------------	--------------------

GENERAL This Section is intended as a reference of the MINIMUM clearances from overhead Electric Distribution facilities including supporting structures, equipment and conductors. All clearances are based on the latest revision of the National Electrical Safety Code (NESC) unless otherwise noted.

Exceptions: Any and all Exceptions shall be permitted only with prior approval of the responsible CMP Distribution Engineer and only for special situation and only where allowed by the latest Revision of the NESC or other governing jurisdiction or CMP policy.

ACKNOWLEDGEMENT: This section contains excerpts from IEEE Std. C2-2007 National Electrical Safety Code.

DEFINITIONS:

NESC. C2-2007 National Electrical Safety Code

Clearance. The clear distance between two objects measured surface to surface.

MDOT. Maine Department of Transportation

SUPPORTING STRUCTURES

Supporting structures, support arms, anchor guys and other equipment attached thereto, and braces shall have the following clearance from other objects.

1-From Fire Hydrants. Not less than 4 feet

2-Streets, Roads and Highways NOT under MDOT

1. Where there are curbs: supporting structures, support arms, anchor guys, or equipment attached thereto, up to 15 ft above the road surface shall be located a sufficient distance from the street side of the curbs to avoid contact by ordinary vehicles using and located on the traveled way. For a redirection curb, such distance shall be not less than 6 in. For paved or concrete swale-type curbs, such facilities shall be located behind the curb.

2. Where there are no curbs, supporting structures should be located a sufficient distance from the roadway to avoid contact by ordinary vehicles using and located on the traveled way.

3. Location of overhead utility installations on roads, streets, or highways with narrow rights-of way or closely abutting improvements are special cases that must be resolved in a manner consistent with the prevailing limitations and conditions.

Where a governmental authority exercising jurisdiction over structure location has issued a permit for, or otherwise approved, specific locations for supporting structures, that permit or approval shall govern.

3-Streets, Roads, and Highways under MDOT Jurisdiction. See the MDOT

2002 Utility Accommodations Policy

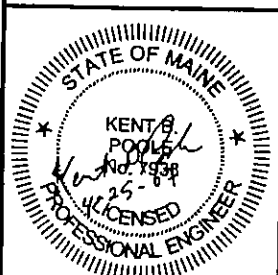
4-From Railroad Tracks: Where railroad tracks are parallel to or crossed by overhead lines, all portions of the supporting structures, support arms, anchor guys and equipment attached thereto less than 22 feet above the nearest track rail shall have a horizontal clearance of 12 feet

NO.	REVISION	DATE	CHK.



DESIGNED	KBK	REC
DRAWN		
DATE	03/15/07	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

CLEARANCE ABOVE GROUND OF WIRES, CONDUCTORS, CABLES, EQUIPMENT, AND SUPPORT ARMS MOUNTED ON SUPPORTING STRUCTURES:

1. The vertical clearance of wires, conductors, and cables aboveground in generally accessible places, roadway, rail, or water surfaces, shall be not less than that shown in NESC Table 232-1. The vertical clearances specified in 2007 NESC Table 232-1 apply under the following conductor temperature and loading conditions, whichever produces the largest final sag:

1. 50°C (120°F), no wind displacement
2. The maximum conductor temperature for which the line is designed to operate, if greater than 120° F, with no wind displacement.
3. 0°C (32°F), no wind displacement, with 1/2 inch radial thickness of ice.

Table 232-1—
Vertical clearance of wires, conductors, and cables above ground, roadway, rail, or water surfaces

(Voltages are phase to ground for effectively grounded circuits and those other circuits where all ground faults are cleared by promptly de-energizing the faulted section, both initially and following subsequent breaker operations. See the definitions section for voltages of other systems. See Rules 232B1, 232C1a, and 232D4.)

Nature of surface underneath wires, conductors, or cables	Insulated communications conductors and cable; messengers; overhead shield/surge-protection wires; grounded guys; ungrounded guys exposed to 0 to 300V (1) (3); neutral conductors meeting Rule 230E1; supply cable meeting Rule 230C1 (ft)	Noninsulated communication conductors; supply cables of 0 to 750 V meeting Rule 230C2 or 230C3 (ft)	Supply cables over 750V meeting Rule 230C2 or 230C3; open supply conductors, 0 to 750V (3); ungrounded guys exposed to over 300V to 750V (4) (ft)	Open supply conductors over 750V to 22 kV; ungrounded guys exposed to 750V to 22 kV (4) (ft)
Where wires, conductors, or cables cross over or overhang				
1. Track rails of railroads (except electrified railroads using overhead trolley conductors) (2) (6) (22)	23.5	24.0	24.5	26.5
2. Roads, streets, and other areas subject to truck traffic (2)	15.5	16.0	16.5	18.5
3. Driveways, parking lots, and alleys (23)	15.5 (7) (13)	16.0 (7) (13)	16.5 (7)	18.5
4. Other land traversed by vehicles, such as cultivated, grazing, forest, orchard, etc. (2)	15.5	16.0	16.5	18.5
5. Spaces and ways subject to pedestrians or restricted traffic (23)	9.5	12.0 (8)	12.5 (8)	14.5

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	KBP
DATE	REC
03/15/07	



NO.	REVISION	DATE	BY

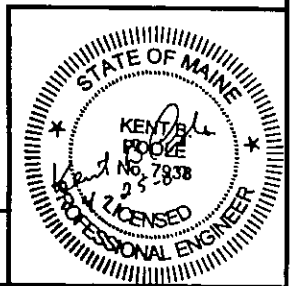


Table 232-1 (continued)
Vertical clearance of wires, conductors, and cables above ground,
roadway, rail, or water surfaces⁽²⁾

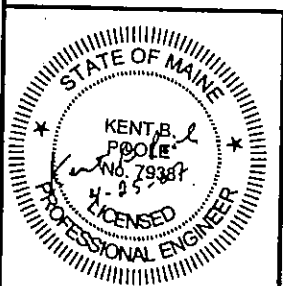
(Voltages are phase to ground for effectively grounded circuits and those other circuits where all ground faults are cleared by promptly de-energizing the faulted section, both initially and following subsequent breaker operations. See the definitions section for voltages of other systems.
 See Rules 232B1, 232C1a, and 232D4.)

NO.	REVISION	DATE	CHK.

Nature of surface underneath wires, conductors, or cables	Insulated communications conductors and cable; messengers; overhead shield/surge-protection wires; grounded guys; ungrounded guys exposed to 0 to 300V ⁽¹⁾ ⁽³⁾ ; neutral conductors meeting Rule 230E1; supply cable meeting Rule 230C1 (ft)	Noninsulated communication conductors; supply cables of 0 to 750 V meeting Rule 230C2 or 230C3 (ft)	Supply cables over 750V meeting Rule 230C2 or 230C3; open supply conductors, 0 to 750V ⁽³⁾ ; ungrounded guys exposed to over 300V to 750V ⁽⁴⁾ (ft)	Open supply conductors over 750V to 22 kV; ungrounded guys exposed to 750V to 22 kV ⁽⁴⁾ (ft)
6. Water areas not suitable for sailboating or where sailboating is prohibited ⁽²⁾	14.0	14.5	15.0	17.0
7. Water areas suitable for sailboating including lakes, ponds, reservoirs, tidal waters, rivers, streams, and canals with an unobstructed surface area of ⁽¹⁾ ⁽²⁾ ⁽³⁾ ⁽⁴⁾				
a. Less than 20 acres	17.5	18.0	18.5	20.5
b. Over 20 to 200 acres	25.5	26.0	26.5	28.5
c. Over 200 to 2000 acres	31.5	32.0	32.5	34.5
d. Over 2000 acres	37.5	38.0	38.5	40.5
8. Established boat ramps and associated rigging areas; areas posted with sign(s) for rigging or launching sail boats	Clearance aboveground shall be 5 ft greater than in 7 above, for the type of water areas served by the launching site.			
Where wires, conductors, or cables run along and within the limits of highways or other road right-of-way but do not overhang the roadway				
9. Roads, streets, or alleys	15.5 ⁽²⁾	16.0	16.5	18.5
10. Roads where it is unlikely that vehicles will be crossing under the line	13.5 ⁽¹⁾ ⁽²⁾	14.0 ⁽¹⁾	14.5 ⁽¹⁾	16.5

⁽¹⁾ Where subways, tunnels, or bridges require it, less clearance above ground or rails than required by Table 232-1 may be used locally. The trolley and electrified railroad contact conductor should be graded very gradually from the regular construction down to the reduced elevation.

⁽²⁾ For wires, conductors, or cables crossing over mine, logging, and similar railways that handle only cars lower than standard freight cars, the clearance may be reduced by an amount equal to the difference in height between the highest loaded car handled and 20 ft, but the clearances shall not be reduced below that required for street crossings.



DESIGNED	KBP
DRAWN	REC
DATE	03/15/07

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

PAGE 305-3	DESCRIPTION CLEARANCES	MACRO
---------------	---------------------------	-------

- ③ Does not include neutral conductors meeting Rule 230E1.
- ④ In communities where 21 ft has been established, this clearance may be continued if carefully maintained. The elevation of the contact conductor should be the same in the crossing and next adjacent spans. (See 22502 for conditions that must be met where uniform height above rail is impractical.)
- ⑤ In communities where 16 ft has been established for trolley and electrified railroad contact conductors 0 to 750V to ground, or 18 ft for trolley and electrified railroad contact conductors exceeding 750V, or where local conditions make it impractical to obtain the clearance given in the table, these reduced clearances may be used if carefully maintained.
- ⑥ This footnote not used in this edition.
- ⑦ Where the height of a residential building does not permit its service drop(s) to meet these values, the clearances over residential driveways only may be reduced to the following:

	(ft)
(a) Insulated supply service drops limited to 300V to ground	12.5
(b) Insulated drip loops of supply service drops limited to 300V to ground	10.5
(c) Supply service drops limited to 150V to ground and meeting Rule 230C1 or 230C3	12.0
(d) Drip loops only of service drops limited to 150V to ground and meeting Rule 230C1 or 230C3	10.0
- ⑧ Where the height of a residential building does not permit its service drop(s) to meet these values, the clearances may be reduced to the following:

	(ft)
(a) Insulated supply service drops limited to 300V to ground	10.5
(b) Insulated drip loops of supply service drops limited to 300V to ground	10.5
(c) Supply service drops limited to 150V to ground and meeting Rule 230C1 or 230C3	10.0
(d) Drip loops only of service drops limited to 150V to ground and meeting Rule 230C1 or 230C3	10.0
- ⑨ Spaces and ways subject to pedestrians or restricted traffic only are those areas where riders on horses or other large animals, vehicles, or other mobile units exceeding a total height of 8 ft, are prohibited by regulation or permanent terrain configurations, or are otherwise not normally encountered nor reasonably anticipated.
- ⑩ Where supply or communication line along a road is located relative to fences, ditches, embankments, etc, so that the ground under the line would not be expected to be traveled except by pedestrians, the clearances may be reduced to the following values:

	(ft)
(a) Insulated communication conductor and communication cables	9.5
(b) Conductors of other communication circuits	9.5
(c) Supply cables of any voltage meeting Rule 230C1, supply cables limited to 150V to ground meeting Rule 230C2 or 230C3, and neutral conductors meeting Rule 230E1.	9.5
(d) Insulated supply conductors limited to 300V to ground	12.5
(e) Guys	9.5
- ⑪ No clearance from ground is required for anchor guys not crossing tracks, rails, streets, driveways, roads, or pathways.
- ⑫ This clearance may be reduced to 13 ft for communication conductors or guys.
- ⑬ Where this construction crosses over or runs along alleys, driveways, or parking lots not subject to truck traffic this clearance may be reduced to 15 ft.
- ⑭ Ungrounded guys and ungrounded portions of span guy insulators shall have clearances based on the highest voltage to which they may be exposed due to a slack conductor or guy.
- ⑮ Anchor guys insulated in accordance with Rule 279 may have the same clearance as grounded guys.
- ⑯ Adjacent to tunnels and overhead bridges that restrict the height of loaded rail cars to less than 20 ft, these clearances may be reduced by the difference between the highest loaded rail car handled and 20 ft, if mutually agreed to by the parties of interest.
- ⑰ For controlled impoundments, the surface area and corresponding clearances shall be based upon the design highwater level.

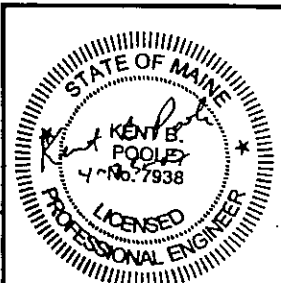
THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

DESIGNED	KBP	ULTIMATE
DRAWN	REC	
DATE	03/15/07	



EAST

NO.	REVISION	DATE	BY



- ⑬ For uncontrolled water flow areas, the surface area shall be that enclosed by its annual high-water mark. Clearances shall be based on the normal flood level; if available, the 10-year flood level may be assumed as the normal flood level.
- ⑭ The clearance over rivers, streams, and canals shall be based upon the largest surface area of any 1 mile-long segment that includes the crossing. The clearance over a canal, river, or stream normally used to provide access for sailboats to a larger body of water shall be the same as that required for the larger body of water.
- ⑮ Where an overwater obstruction restricts vessel height to less than the applicable reference height given in Table 232-3, the required clearance may be reduced by the difference between the reference height and the overwater obstruction height, except that the reduced clearance shall be not less than that required for the surface area on the line-crossing side of the obstruction.
- ⑯ Where the US Army Corps of Engineers, or the state, or surrogate thereof has issued a crossing permit, clearances of that permit shall govern.
- ⑰ See Rule 234I for the required horizontal and diagonal clearances to real cars.
- ⑱ For the purpose of this rule, trucks are defined as any vehicle exceeding 8 ft in height. Areas not subject to truck traffic are areas where truck traffic is not normally encountered nor reasonably anticipated.
- ⑲ Communication cables and conductors may have a clearance of 15 ft where poles are back of curbs or other deterrents to vehicular traffic.
- ⑳ The clearance values shown in this table are computed by adding the applicable Mechanical and Electrical (M & E) value of Table A-1 to the applicable Reference Component of Table A-2a of Appendix A.
- ㉑ When designing a line to accommodate oversized vehicles, these clearance values shall be increased by the difference between the known height of the oversized vehicle and 14 ft.

2. The vertical clearance above ground, roadway, or water surfaces for unguarded rigid live parts such as potheads, transformer bushings, surge arresters, and short lengths of supply conductors connected thereto, which are not subject to variation in sag, shall be not less than that shown in NESC Table 232-2. For clearances of drip loops of service drops, see NESC Table 232-1..

3. The vertical clearance of switch handles, equipment cases, support arms, platforms, and braces that extend beyond the surface of the structure shall be not less than that shown in Table 232-2. These clearances do not apply to internal structural braces for latticed towers, X-braces between poles, and pole-type push braces.

	DATE	CHK.



ORIGINAL	KBP	REC	
DESIGNED			
DRAWN			
DATE	03/15/07		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

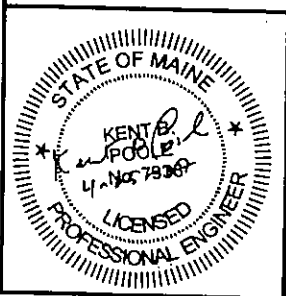
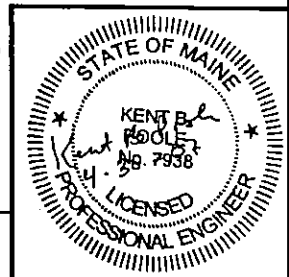


Table 232-2—
Vertical clearance of equipment cases, support arms, platforms, braces and unguarded rigid live parts above ground, roadway, or water surfaces (B)
(Voltages are phase to ground for effectively grounded circuits and those other circuits where all ground faults are cleared by promptly de-energizing the faulted section, both initially and following subsequent breaker operations. See the definitions section for voltages of other systems.
See Rules 232B2, 232B3, 232C1a, and 232D4.)

Nature of surface below	Nonmetallic or effectively grounded support arms, switch handles, platforms, braces, and equipment cases (ft)	Unguarded rigid live parts of 0 to 750V and ungrounded cases that contain equipment connected to circuits of not more than 750V (ft)	Unguarded rigid live parts of over 750V to 22 kV and ungrounded cases that contain equipment connected to circuits of over 750V to 22 kV (ft)
1. Where rigid parts overhang			
a. Roads, streets, and other areas subject to truck traffic	15.0	16.0	18.0
b. Driveways, parking lots, and alleys	15.0	16.0 ⁽⁶⁾	18.0
c. Other land traveled by vehicles such as cultivated land, grazing land, forest, orchard, etc.	15.0 ⁽⁷⁾	16.0	18.0
d. Spaces and ways subject to pedestrians or restricted traffic only ⁽⁵⁾	11.0 ⁽⁷⁾	12.0 ⁽¹⁾	14.0
2. Where rigid parts are along and within the limits of highways or other road right-of-way but do not overhang the roadway			
a. Roads, streets, and alleys	15.0 ⁽⁷⁾	16.0	18.0
b. Roads where it is unlikely that vehicles will be crossing under the line	13.0 ⁽⁷⁾	14.0 ⁽²⁾	16.0
c. Water areas not suitable for sailboating or where sailboating is prohibited	14.0	14.5	15.0

- ① For insulated live parts limited to 150V to ground, this value may be reduced to 10 ft.
- ② Where a supply line along a road is limited to 300V to ground and is located relative to fences, ditches, embankments, etc., so that the ground under the line would not be expected to be traveled except by pedestrians, this clearance may be reduced to 12 ft.
- ③ This footnote not used in this edition.
- ④ For the purpose of this rule, trucks are defined as any vehicle exceeding 8 ft in height. Areas not subject to truck traffic are areas where truck traffic is not normally encountered nor nor reasonably anticipated.



THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

DESIGNED: KBP
DRAWN: REC
DATE: 03/15/07
ORIGINAL



NO.	REVISION	DATE	BY



- ⑤ Spaces and ways subject to pedestrians or restricted traffic only are those areas where riders on horseback or other large animals, vehicles, or other mobile units exceeding 8 ft in height, are prohibited by regulation or permanent terrain configurations or are otherwise not normally encountered nor reasonably anticipated.
- ⑥ This clearance may be reduced to the following values for driveways, parking lots, and alleys not subject to truck traffic:
 - (a) Insulated live parts limited to 300V to ground (ft) 12
 - (b) Insulated live parts limited to 150V to ground 10
- ⑦ Effectively grounded switch handles and supply or communication equipment cases (such as fire alarm boxes, control boxes, communication terminals, meters or similar equipment cases) may be mounted at a lower level for accessibility, provided such cases do not unduly obstruct a walkway.
NOTE: See NESC Rule 234J2c.
- ⑧ The clearance value shown in this table are computed by adding the applicable Mechanical and Electrical (M & E) value of Table A-1 to the applicable Reference Component of Table A-2a of NESC appendix A.
- ⑨ Where the US Army Corps of Engineers, or the state, or surrogate thereof has issued a crossing permit, clearances of that permit shall govern.

CLEARANCE OF WIRES, CONDUCTORS, CABLES, AND EQUIPMENT FROM BUILDINGS, BRIDGES, RAIL CARS, SWIMMING POOLS, AND OTHER INSTALLATIONS

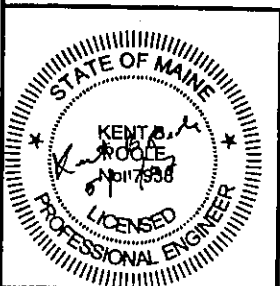
- 1- From buildings, signs, billboards, chimneys, radio and television antennas, tanks, and other installations except bridges: SEE 2007 NESC Table 234-1. (pg. 126)
- 2- From bridges: SEE 2007 NESC Table 234-2. (pg. 129)
- 3- Installed over or near swimming areas with no wind displacement: See 2007 NESC Table 234-3. (pg. 132)

NO.	REVISION	DATE	CHK.
1			

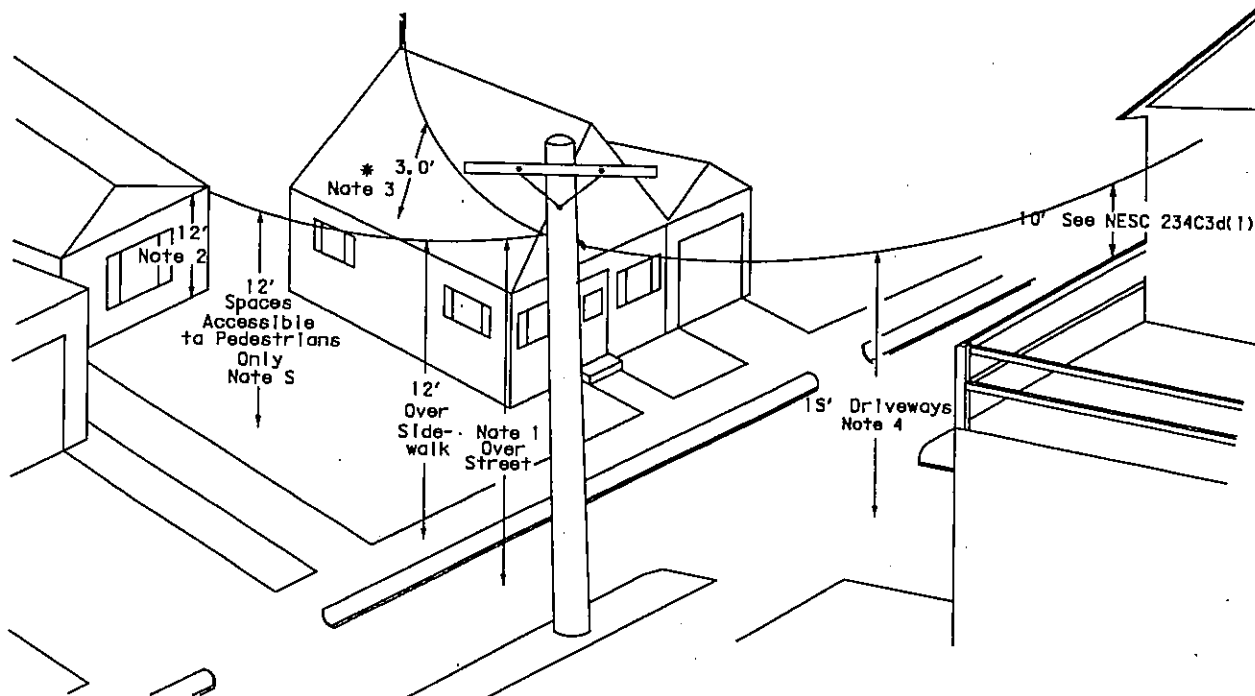


DESIGNED	KBP
DRAWN	REC
DATE	05/10/07

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



SUPPLY (SERVICE DROPS) CONDUCTORS ATTACHED TO BUILDINGS OR OTHER INSTALLATIONS.

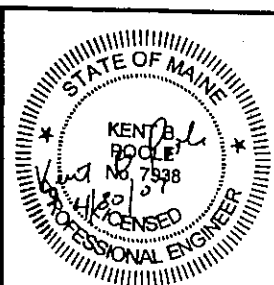


TRIPLEX AND QUADRAPLEX SERVICES
OF LESS THAN 300 VOLTS TO GROUND

Where the permanent attachment of supply conductors of any class to a building or other installation is necessary for an entrance, such conductors shall meet the following requirements over or along the installation to which the conductors are attached:

- a. Energized service drop conductors, including splices and taps, shall be insulated or covered in accordance with the following:
 - (1) For 0 to 750V, NESC Rule 230C or 230D
 - (2) For over 750 V, NESC Rule 230C1
 This rule does not apply to neutral conductors meeting NESC Rule 230E1.
- b. Conductors of more than 300 V to ground shall not be carried along or near the surface of the installation unless they are guarded or made inaccessible.
- c. Wires or cables attached to and run along side the installation shall have clearances from the surface of the installation not less than 3 in.
- d. Service-drop conductors, including drip loops shall have a clearance of not less than the following:
 - (1) 10 ft vertical clearance from the highest point of roofs, balconies, porches, or attached decks over which they pass

EXCEPTION: Where the voltage between conductors meeting NESC Rule 230D does not exceed 300 V, or where the voltage of cables meeting NESC Rule 230C2 or 230C3 does not exceed 750 V, or where the cable meets NESC Rule 230C1, and the roof, balcony, porch, or attached deck is not readily accessible, the clearance over the roof, balcony, porch, or attached deck including the drip loop shall be not less than either of the following:



THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

DESIGNED	KBP
DRAWN	REC
DATE	03/15/07



NO.	REVISION	DATE	BY



- (a) 3 ft
- (b) 18 In far a horizontal distance of 6 ft from an approved raceway or support located not more than 4 ft from the edge of the roof and not less than 3 ft for the remainder of the horizontal distance that the cable or conductor passes over the roof or balcony.

A roof, balcony, porch, or attached deck is considered readily accessible to pedestrians if it can be casually accessed through a doorway, window, ramp, stairway, or permanently mounted ladder by a person, on foot, who neither exerts extraordinary physical effort nor employs tools or devices to gain entry. A permanently mounted ladder is not considered a means of access if its bottom rung is 8 ft or more from the ground or other permanently installed accessible surface.

NOTE: See NESC Figure 234-2.

- (2) 3 ft in any direction from windows, doors, porches, fire escapes, or similar locations.

EXCEPTION 1: This does not apply to service-drop conductors meeting NESC Rule 230C3 above the top level of a window

EXCEPTION 2: This does not apply to windows that are not designed to open

Above ground clearances of service conductors shall be not less than required by NESC Table 232-1 or other applicable NESC rule.

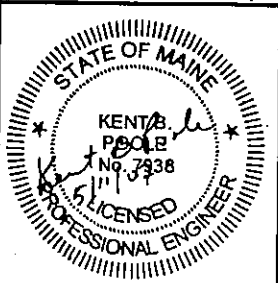
Service conductors located above or near swimming pools shall be not less than required by NESC Table 234-3 or other applicable NESC rule.

NO.	REVISION	DATE	CHK.

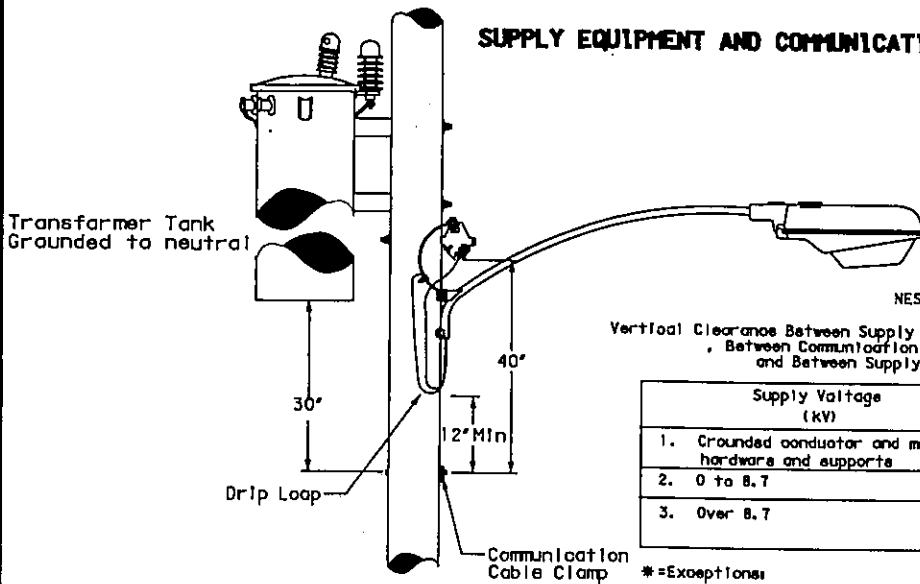


DESIGNED	KBP	ORIGINAL
DRAWN	REC	03/15/07
DATE		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



SUPPLY EQUIPMENT AND COMMUNICATIONS EQUIPMENT



NESSC TABLE 238-1

Vertical Clearance Between Supply Conductors and Communications Equipment, Between Communication Conductors and Supply Equipment, and Between Supply and Communications Equipment

Supply Voltage (kV)	Vertical Clearance (In)
1. Grounded conductor and messenger hardware and supports	30
2. 0 to 8.7	40*
3. Over 8.7	40 plus 0.4 per kV* over 8.7 kV

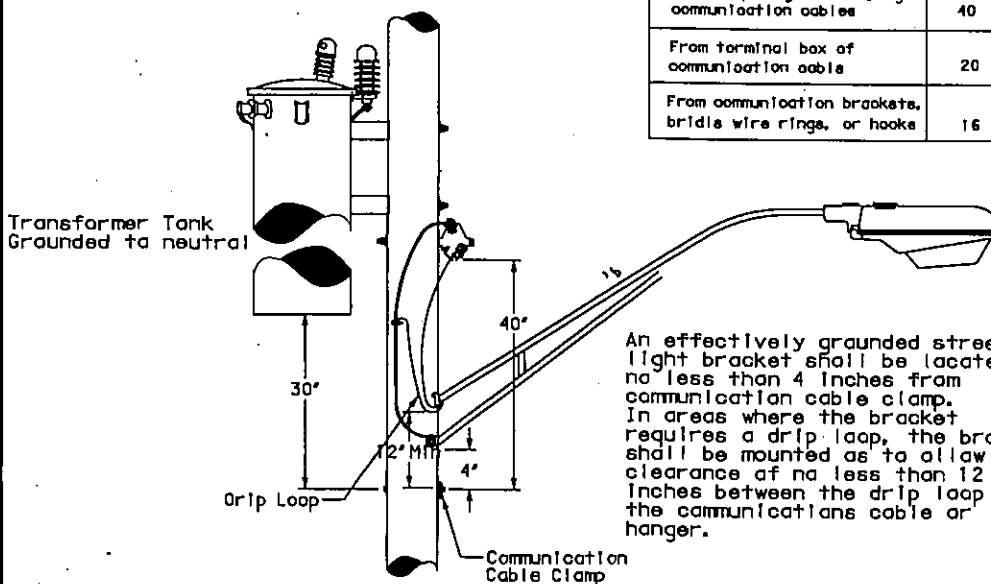
*=Exceptions:

Where non-current-carrying parts of supply equipment are effectively grounded and the associated neutral (meeting NESC Rule 230E1) or supply cables (meeting NESC Rule 230C1) (including the support brackets) are bonded to communication messengers at intervals (meeting NESC Rule 92C) through out well-defined areas and where communication is at lower levels, clearances may be reduced to 30 in.

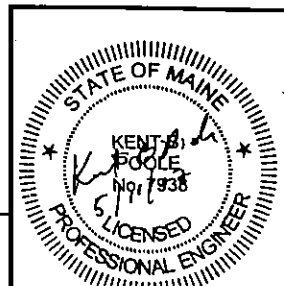
NESSC TABLE 238-2

Vertical Clearance of Span Wires and Brackets From Communication Lines

	Carrying luminaires or traffic signals	
	Not effectively grounded	Effectively grounded
	(In)	(In)
Above communication support arms	20	20
Below communication support arms	40	24
Above messengers carrying communication cables	20	4
Below messengers carrying communication cables	40	4
From terminal box of communication cable	20	4
From communication brackets, bridge wire rings, or hooks	16	4



An effectively grounded street light bracket shall be located no less than 4 inches from communication cable clamp. In areas where the bracket requires a drip loop, the bracket shall be mounted as to allow a clearance of no less than 12 inches between the drip loop and the communications cable or hanger.



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	CS
DRAWN	REC
DATE	12/06/05



NO.	REVISION	DATE	BY

VERTICAL CLEARANCE FOR WIRES, CONDUCTORS, OR CABLES CARRIED ON THE SAME SUPPORTING STRUCTURE

All line wires, conductors, and cables located at different levels on the same supporting structure shall have vertical clearances not less than the following:

1. Basic clearance for conductors of same or different circuits

a. Between supply lines of the same or different circuits

The clearance requirements given in NESC Table 235-5 shall apply to supply line wires, conductors, or cables of 0 to 50 kV attached to supports. No value is specified for clearances between conductors of the same circuit exceeding 50 kV, between cables meeting NESC Rule 230C3 and neutral conductors meeting NESC Rule 230E1 of the same utility, or between ungrounded open supply conductors 0 to 50 kV of the same phase and circuit of the same utility.

b. Between supply lines and communication lines

The clearance requirements given in NESC Table 235-5 shall apply.

c. Between communication lines located in the communication space

The clearance and spacing requirements of NESC Rule 235H shall apply to communication lines located in the communication space.

d. Between communication lines located in the supply space

The clearance requirements of NESC Table 235-5 shall apply to communication lines located in the supply space.

EXCEPTION 1: Line wires, conductors, or cables on vertical racks or separate brackets placed vertically and meeting the requirements of NESC Rule 235G may have spacings as specified in that rule.

EXCEPTION 2: Where communication service drops cross under supply conductors on a common crossing structure, the clearance between the communication conductor and an effectively grounded supply conductor may be reduced to 4 in provided the clearance between the communication conductor and supply conductors not effectively grounded meets the requirements of NESC Rule 235C as appropriate.

EXCEPTION 3: Supply service drops of 0 to 750 V running above and parallel to communication service drops may have a clearance of not less than 12 inches at any point in the span including the point of their attachment to the building or structure being served provided that the nongrounded conductors are insulated and that the clearance as otherwise required by this rule is maintained between the two service drops at the pole.

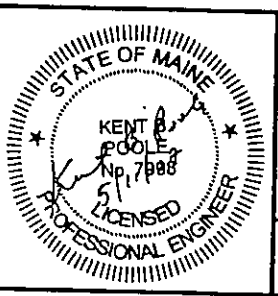
EXCEPTION 4: This rule does not apply to conductors of the same circuit meeting NESC Rule 230D.

	DATE	CK.					
REVISION							
REV.							



ORIGINAL	KBP	REC	03/15/07
DESIGNED	DRAWN	DATE	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



PAGE 305-11	DESCRIPTION CLEARANCES	MACRO
----------------	---------------------------	-------

2. Sag-related clearances

(1) Line wires, conductors, and cables supported at different levels on the same structures shall have vertical clearances at the supporting structures so adjusted that the clearance at any point in the span shall be not less than any of the following:

(a) For voltages less than 50 kV between conductors, 75% of that required at the supports by NESC Table 235-5.

EXCEPTION 1: Neutral conductors meeting NESC Rule 230E1, fiberoptic supply cables meeting NESC Rule 230F1a or 230F1b, insulated communication cables located in the supply space and supported by an effectively grounded messenger, and supply cables meeting NESC Rule 230C1 (including their support brackets) in the supply space running above and parallel to communication cables in the communications space where the supply neutral or messenger is bonded to the communication messenger at intervals specified in NESC Rule 92C, may have a clearance of 12 inches at any point in the span provided that a clearance of 30 inches is maintained between the supply space conductors and cables and communication space cables at the supporting poles. Banding is not required for entirely dielectric cables meeting NESC Rule 230F1b.

i. The upper conductor is at final sag at 120° F or the maximum operating temperature for which the line is designed to operate and the lower conductor is at final sag at the same ambient conditions as the upper conductor without electrical loading, or

ii. The upper conductor is at final sag at 32° F with 1/2 inch radial thickness of ice and the lower conductor is at final sag at the same ambient conditions as the upper conductor without electrical loading, and without ice loading.

3. Span lengths in excess of 150 ft.

Vertical clearance at the structure between open supply conductors and communication cables or conductors shall be adjusted so that under conditions of conductor temperature of 60°F, no wind displacement and final unloaded sag, no open supply conductor of over 750 V but less than 50 kV shall be lower in the span than a straight line joining the points of support of the highest communication cable or conductor.

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	KBP	ORIGINAL
DRAWN	REC	
DATE	03/15/07	



East

NO.	REVISION	DATE	BY

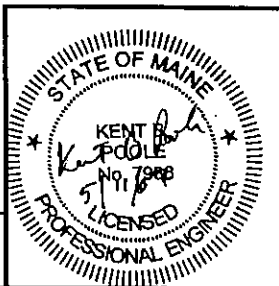


Table 235-5—

Vertical clearance between conductors at supports
 (When using column and row headings, voltages are phase to ground for effectively grounded circuits and those other circuits where all ground faults are cleared by promptly de-energizing the faulted section, both initially and following subsequent breaker operations. When calculating clearance values within the table, all voltages are between the conductors involved. See the definitions section for voltages of other systems.
 See also Rules 235C1, 235C2, and 235F)

REV. NO.	DATE	BY

Conductors and cables usually at lower levels	Conductors and cables usually at upper levels			
	Supply cables meeting Rule 230C1, 2, or 3; neutral conductors meeting Rule 230E1; communications cables meeting Rule 224A2 (In)	Open supply conductors		
		0 to ① 8.7kV (In)	Over 8.7 to 50 kv	
			Same utility ⑦ (In)	Different utility ⑦ (In)
1. Communication conductors and cables				
a. Located in the communication space	40 ① ⑤	40	40	40 plus 0.4 per kv ⑥ In excess of 8.7kv
b. Located in the supply space	16 ① ⑤	16	40	40 plus 0.4 per kv ⑥ In excess of 8.7kv
2. Supply conductors and cables				
a. Open conductors 0 to 750V; supply meeting Rule 230C1, 2, or 3; neutral conductors meeting Rule 230E1 ①	16 ③	16	16 plus 0.4 per kv ⑥ In excess of 8.7kv	40 plus 0.4 per kv ⑥ In excess of 8.7kv
b. Open conductors over 750V to 8.7kV		16 ②	16 plus 0.4 per kv ④ ⑥ In excess of 8.7kv	40 plus 0.4 per kv A ⑥ In excess of 8.7kv
c. Open conductors over 8.7 to 22kV				
(1) If worked on energized with live-line tools and adjacent circuits are neither de-energized nor covered with shields or protectors			16 plus 0.4 per kv ⑥ In excess of 8.7kv	40 plus 0.4 per kv ⑥ In excess of 8.7kv



DESIGNED	KBP
DRAWN	REC
DATE	03/15/07

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

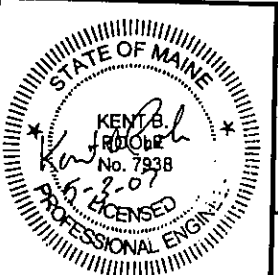


Table 235-5 (continued)
Vertical clearance between conductors at supports

(When using column and row headings, voltages are phase to ground for effectively grounded circuits and those other circuits where all ground faults are cleared by promptly de-energizing the faulted section, both initially and following subsequent breaker operations. When calculating clearance values within the table, all voltages are between the conductors involved. See the definitions section for voltages of other systems.
See also Rules 235C1, 235C2, and 235F)

Conductors and cables usually at lower levels	Conductors and cables usually at upper levels			
	Supply cables meeting Rule 230C1, 2, or 3; neutral conductors meeting Rule 230E1; communication cables meeting Rule 224A2 (in)	Open supply conductors		
		0 to ① 8.7kV (in)	Over 8.7 to 50 kv	
	Some utility ⑦ (in)		Different utility ⑦ (in)	
(2) If not working on energized except when adjacent circuits (either above or below) are de-energized or covered by shields or protectors, or by the use of live-line tools not requiring line workers to go between live wires		16 plus 0.4 per kv ③⑥ in excess of 8.7kv	40 plus 0.4 per kv ③⑥ in excess of 8.7kv	
d. Open conductors exceeding 22kv, but not exceeding 50kv		16 plus 0.4 per kv ③⑥ in excess of 8.7kv	40 plus 0.4 per kv ③⑥ in excess of 8.7kv	

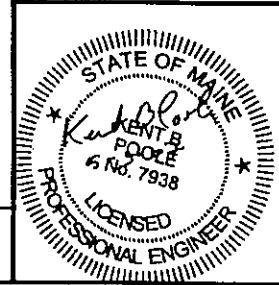
- ① Where supply circuits of 600V or less, with transmitted power of 500W or less, are run below communication circuits in accordance with Rule 220B2, the clearance may be reduced to 16 in.
- ② Where conductors are operated by different utilities, a vertical clearance of not less than 40 in is recommended.
- ③ These values do not apply to conductors of the same circuit or circuits being carried on adjacent conductor supports.
- ④ May be reduced to 16 in where conductors are not worked on energized except when adjacent circuits (either above or below) are de-energized or covered by shields or protectors, or by the use of live-line tools not requiring line workers to go between live wires.
- ⑤ May be reduced to 30 in for supply neutrals meeting Rule 230E1, fiber-optic supply cables on an effectively grounded messenger meeting Rule 230F1a, entirely dielectric fiber-optic supply cables meeting Rule 230F1b, insulated communication cables located in the supply space and supported by an effectively grounded messenger, and cables meeting Rule 230C1 where the supply neutral or messenger is banded to the communication messenger. Banding is not required for entirely dielectric cables meeting Rule 230F1b.
- ⑥ The greater of phasor difference or phase-to-ground voltage; see Rule 235A3.
- ⑦ See examples of calculations in Rule 235C2a and 235C2b.
- ⑧ Not used in this edition.
- ⑨ No clearance is specified between neutral conductors meeting Rule 230E1 and insulated communication cables located in the supply space and supported by an effectively grounded messenger.
- ⑩ No clearance is specified between fiber-optic supply cables meeting Rule 230F1b and supply cables and conductors.
- ⑪ Does not include neutral conductors meeting Rule 230E1.

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

DESIGNED	KBP	DATE	03/15/07
DRAWN	REC		

ST. YEAST

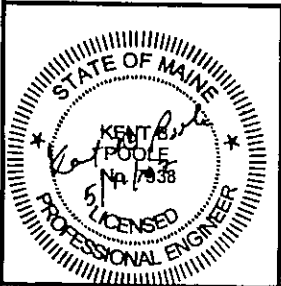
NO.	REVISION	DATE	BY



NO.	REVISION	DATE	CK.
1			

DESIGNED	CS
DRAWN	REC
DATE	12/06/05

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

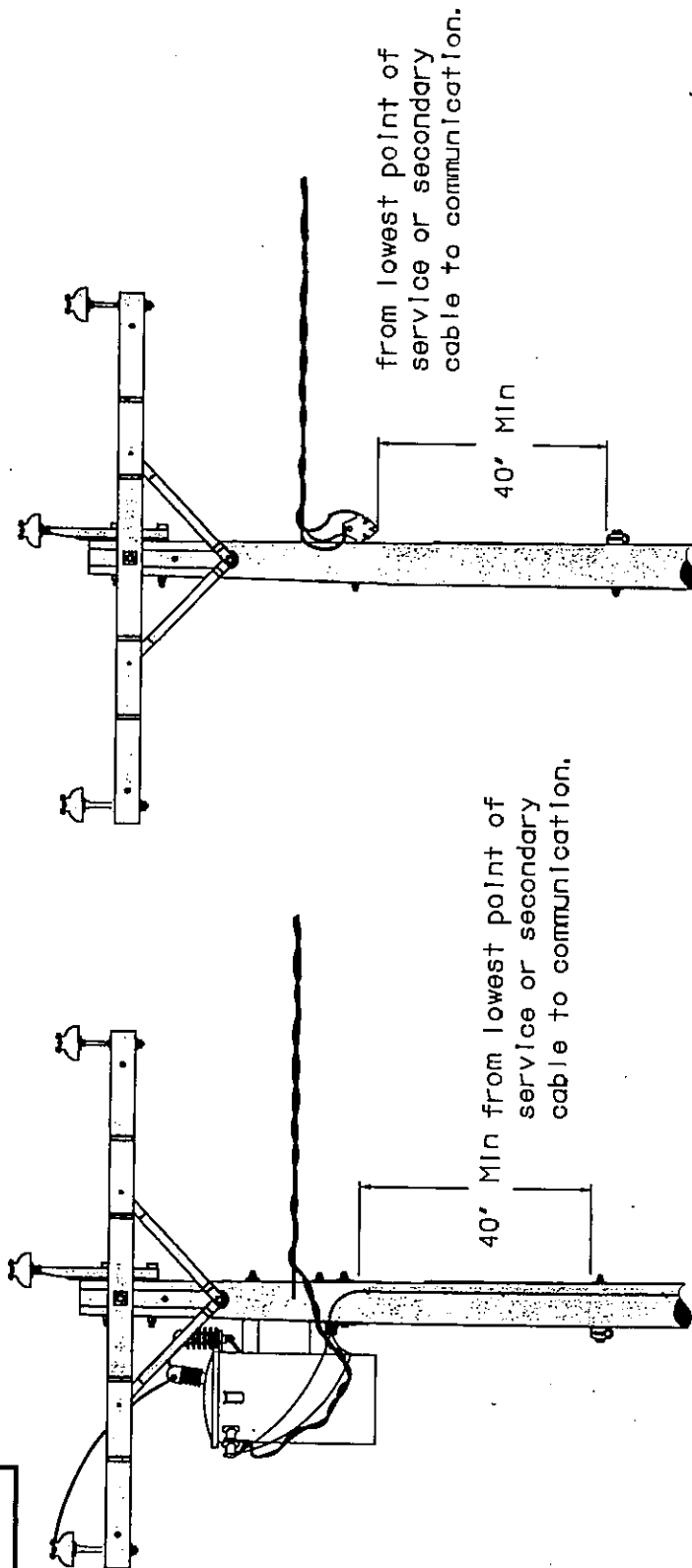


SUPPLY AND COMMUNICATION CLEARANCE AT SUPPORTING STRUCTURE

MACRO

DESCRIPTION
CLEARANCES

PAGE
305-14

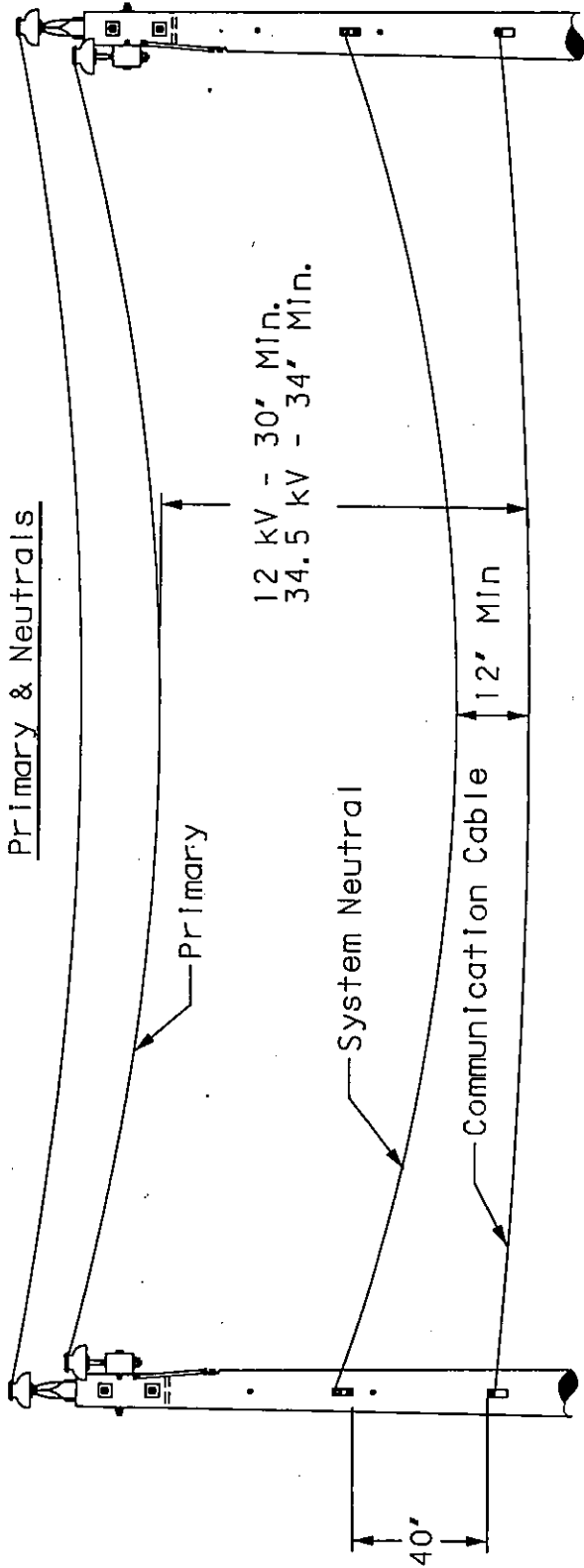


NOTES

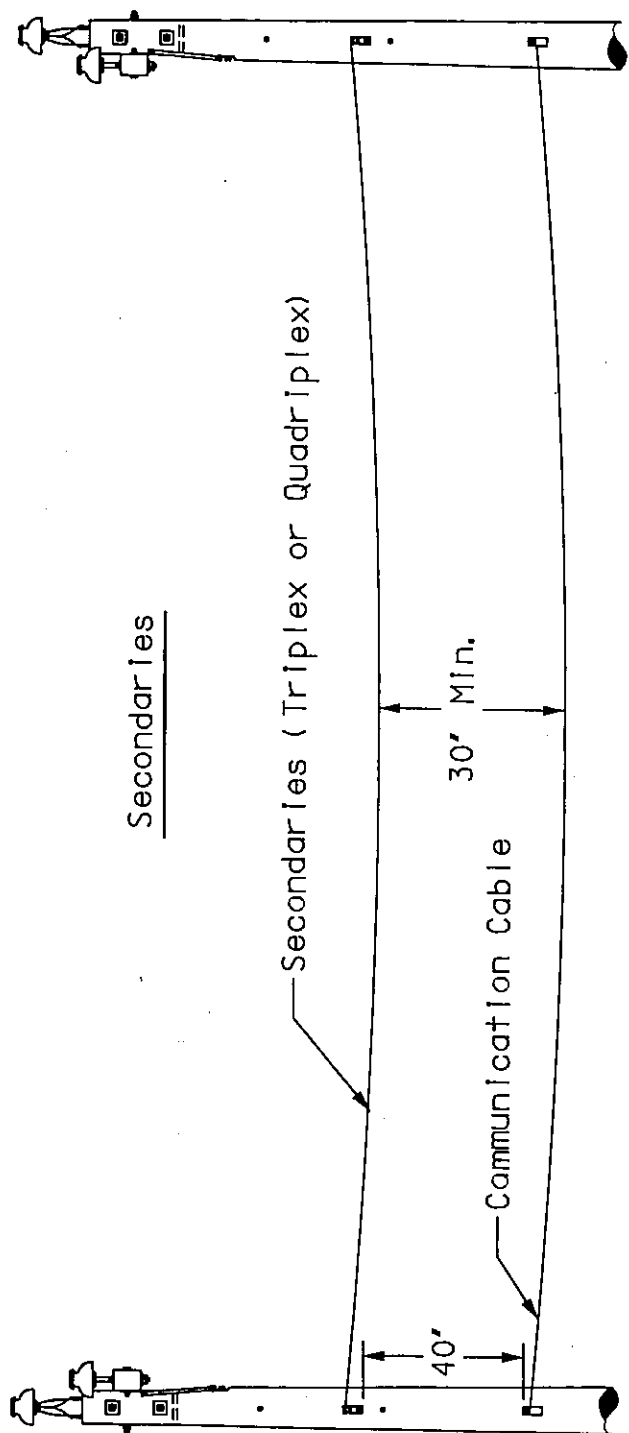
- Transformers should normally be mounted on the roadside of the pole and may be quarter mounted if the lateral service or secondary cable interferes with the installation.
- The top mounting bracket of the transformer must be located above the neutral.
- Minimum clearance between the bottom of the transformer tank and the highest communication cable shall be 30'.
- DO NOT place any conductors in the 40 Inch Communication Personal Safety Zone.

SUPPLY AND COMMUNICATION CLEARANCE IN SPAN

Primary & Neutrals



Secondaries

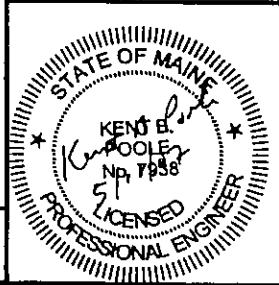


THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	CS
DRAWN	REC
DATE	08/23/01



East



MACRO

DESCRIPTION
CLEARANCES

PAGE
305-16

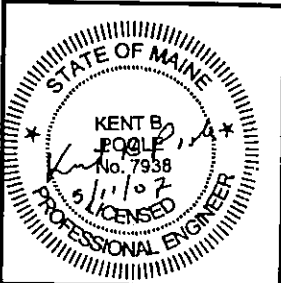
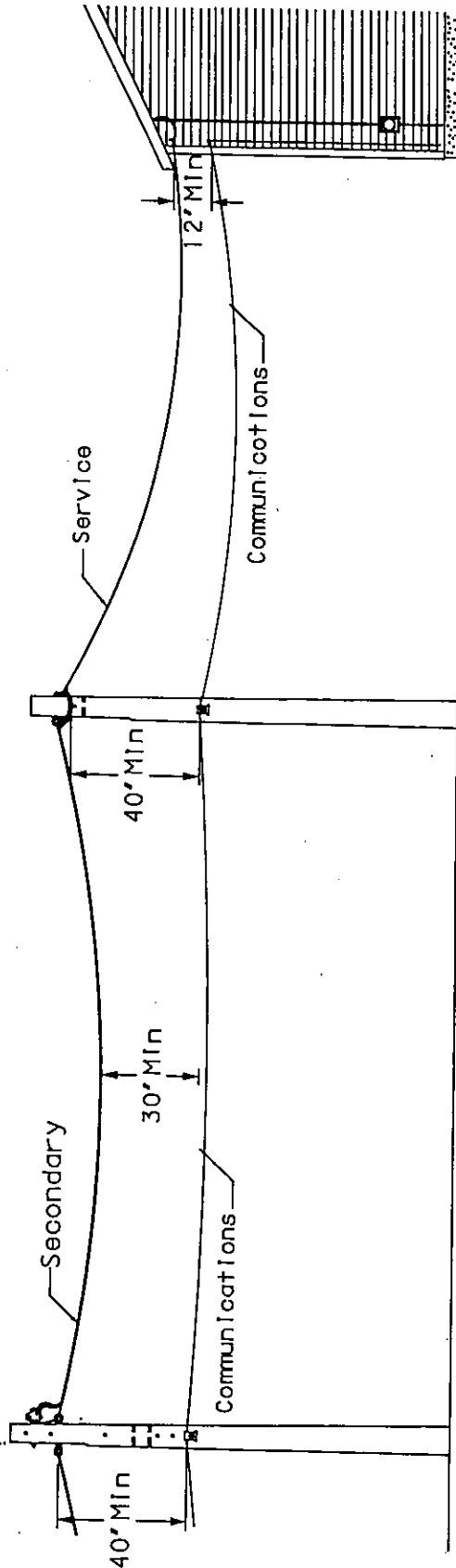
NO.	REVISION	DATE	CL.
1			



DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	10/04/02

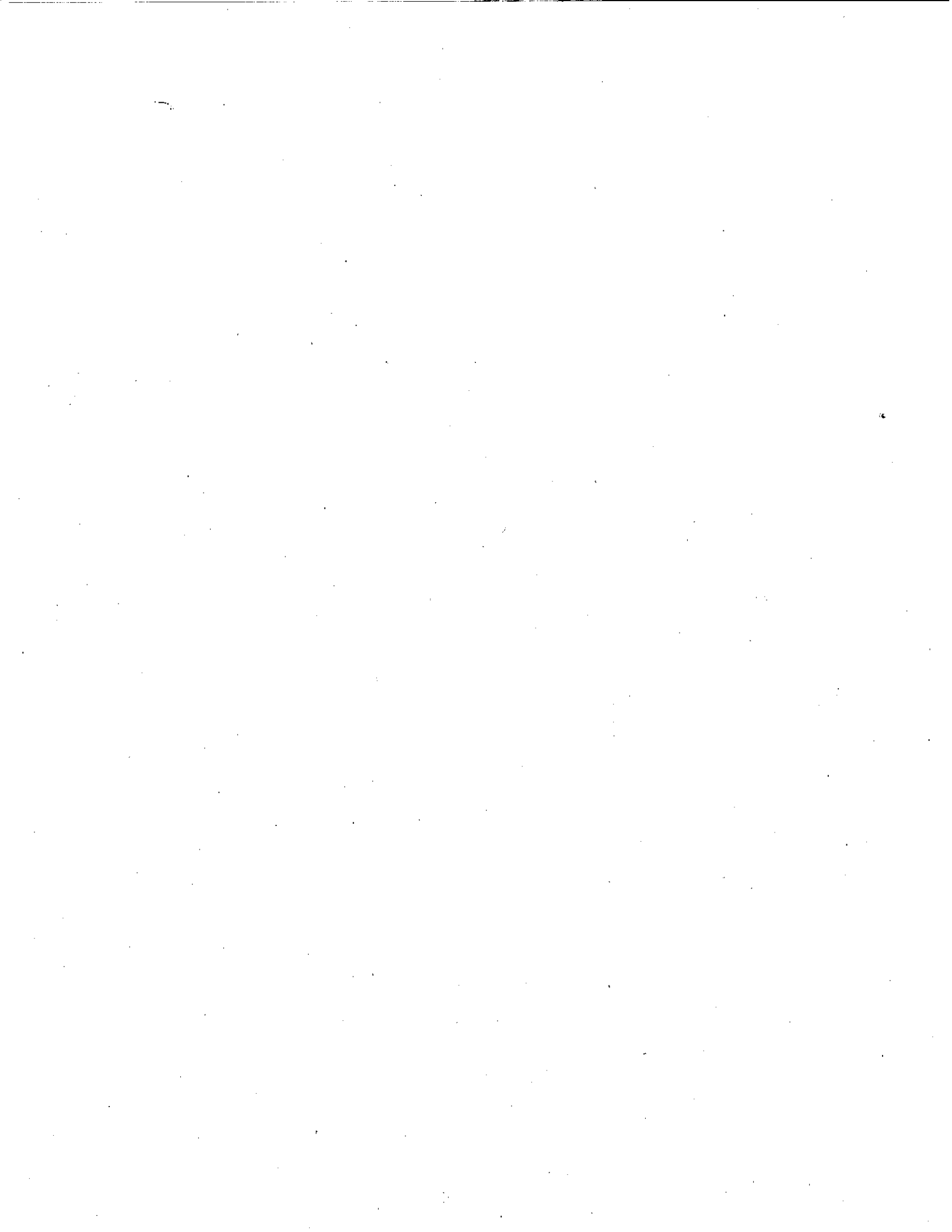
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

SUPPLY AND COMMUNICATION SERVICE DROP CLEARANCE



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS







GENERAL

This section provides standard requirements for classifying, salvaging and setting of wood poles and crossarms.

Wood poles used on Central Maine Power Company's distribution system should be full length treated with Pentachlorophenol (Pento). SEE ENVIRONMENTAL & LICENSING PROCEDURES MANUAL SECTION TREATED WOOD (POLE) MANAGEMENT FOR POLE SITING RESTRICTIONS.

SALVAGE

To be salvaged, a pole must have been initially full length treated with PENTA; must be less than ten years old and be in first class condition at the time of return. Poles to be salvaged shall show NO evidence of shell rot, internal decay, weather checking or excessive damage due to repeated climbing.

All poles returned to salvage shall have all hardware, pole numbers, ground wires, etc... removed before return. Date markers SHALL NOT be removed from pole.

A new date marker shall be put on the pole when it is reinstalled. The new date marker shall be placed two inches above the original date marker.

CLASSIFICATION

This section provides information and instruction for selecting the proper class of pole. The pole class is mainly dependent upon the loading that the pole must withstand under heavy ice loading conditions. Conductor loading, equipment loading, and downward forces caused by guying, must all be considered in order to select the proper class of pole.

This section provides three ways of determining the class of pole depending on the loading conditions. The first condition is for unguyed poles and considers conductor loading only. The second condition deals with guyed poles and the third condition is for equipment loading on poles.

When classifying a pole for heavy equipment or for guying, more than one method must be used in order to select the correct class of pole. For instance, if a transformer is to be added to a pole, first the conductor loading on the pole must be checked for the correct class of pole. Then the equipment loading is checked for the correct class of pole. If the class of pole differs between the two methods, the larger pole shall be used. In a similar case where the same pole is to be guyed also, all three methods must be checked.

RECONDUCTORING:

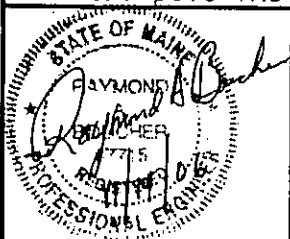
Whenever any load such as heavier conductors, large transformers, CATV, or telephone cables are added to an existing line, the poles should be reviewed for adequate strength. An existing pole in good condition that is within one class of the size required for a new pole (see pages 307-5 through 307-16 for size requirements) is both adequate and will meet the requirements of the National Electrical Safety Code (NESC). For example, if a 40/3 pole was already installed and new loading would require a 40/2 pole, then the old 40/3 pole would NOT have to be changed out. If, however, the new loading required a 40/1 pole, then the old 40/3 pole would have to be changed out and a new 40/1 pole installed. Whenever a new pole is installed on an existing line or a new line, the pole class has to meet all the requirements for a new pole installation. Poles may be measured at the ground line to determine their class (see page 307-3).

DESIGNED	REVISED	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	10/01/01	10/16/06	

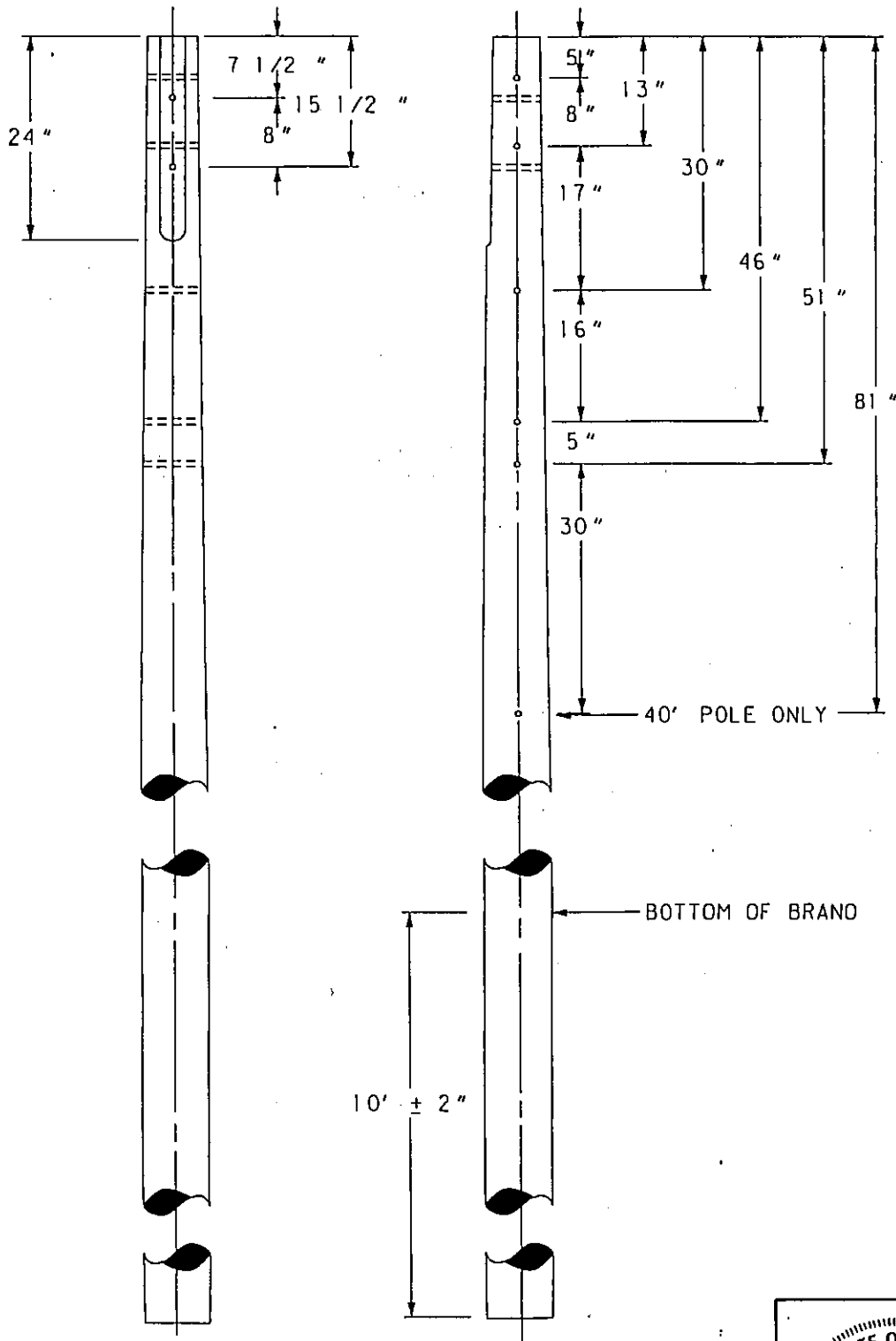


DESIGNED	ORIGINAL	GRG
DRAWN		
DATE		05/14/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY.



FRAMING DETAIL

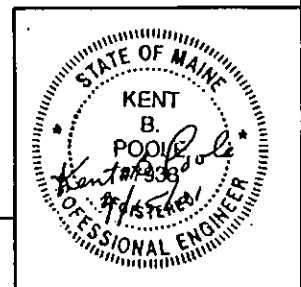


NOTE: All holes 11/16" diameter

DESIGNED	CS
DRAWN	REC
DATE	08/23/01

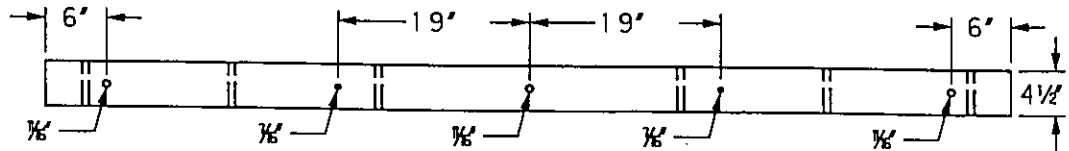
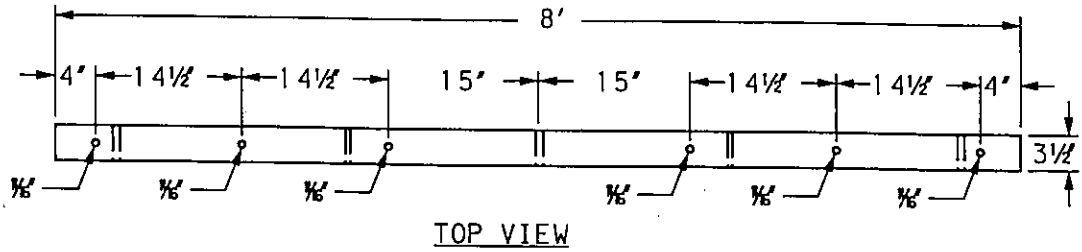
DESIGNED	REDRAWN
DRAWN	GRC
DATE	11/1/94

BE REVISIED ON THE
CAD SYSTEM ONLY



DRILLING DETAIL

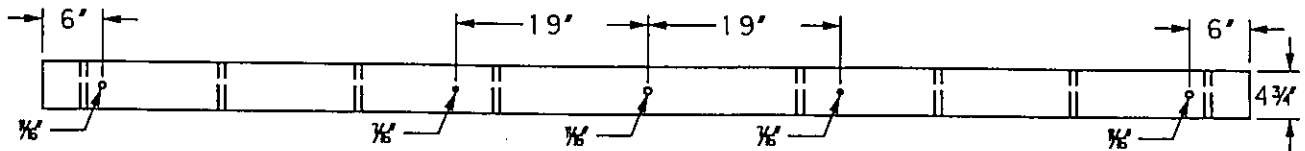
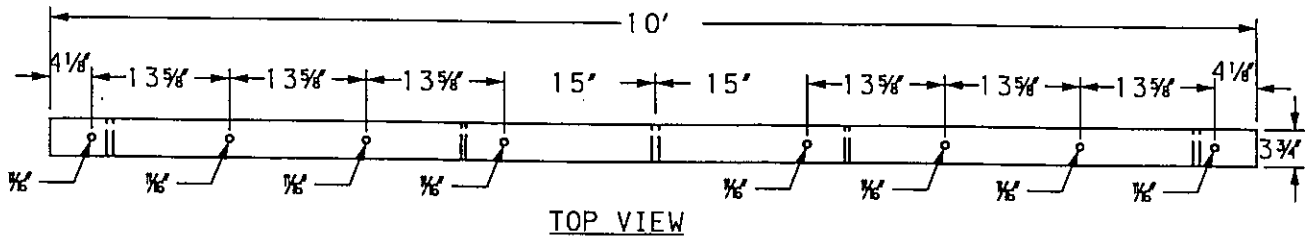
DESIGNED	REVISOR	REVISION
ORAWN	CS	CS
DATE	REC	REC
08/23/01	07/06/06	



8' 6 PIN B CROSSARM
MIO*6000740510

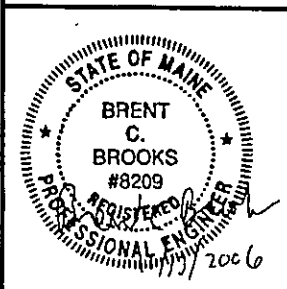


DESIGNED	REVISOR	REVISION
ORAWN	GRG	GRG
DATE	11/3/94	



10' 8 PIN B CROSSARM
MID*6000740540

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



PAGE 307-3	DESCRIPTION MINIMUM POLE DIMENSIONS	MACRO
---------------	--	-------

* MINIMUM POLE DIMENSIONS

CLASS	1	2	3	4	5
Circumference at Top All Woods All Lengths	27	25	23	21	19

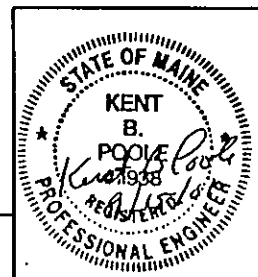
Circumference 6 Feet from Butt	Length	1	2	3	4	5
Southern Yellow Pine	30	36.5	34.0	32.0	29.5	27.7
	35	39.0	36.5	34.0	31.5	29.0
	40	41.0	38.5	36.0	33.5	31.0
Douglas Fir	45	43.0	40.5	37.5	35.0	32.5
	50	45.0	42.0	39.0	36.5	34.0
Hackmatack	55	46.5	43.5	40.5	38.0	
	60	48.0	45.0	42.0	39.0	
	30	39.0	36.5	34.0	31.5	29.0
Red Pine (Norway)	35	41.5	38.5	36.0	33.5	31.0
	40	44.0	41.0	38.0	35.5	33.0
	45	46.0	43.0	40.0	37.0	34.5
White Spruce	50	48.0	45.0	42.0	39.0	36.0
	55	49.5	46.5	43.5	40.5	
	60	51.5	48.0	45.0	42.0	
Western Red Cedar	30	40.0	37.5	35.0	32.5	30.0
	35	42.5	40.0	37.5	34.5	32.0
	40	45.0	42.5	39.5	36.5	34.0
	45	47.5	44.5	41.5	38.5	36.0
	50	49.5	46.5	43.5	40.0	37.5
	55	51.5	48.5	45.0	42.0	
Eastern White Cedar	60	53.5	50.0	46.5	43.5	
	65	55.0	51.5	48.0	45.0	
	25	42.0	39.5	36.5	34.0	31.5
	30	45.5	43.0	40.0	37.0	34.5
	35	49.0	46.0	42.5	39.5	37.0
White Pine	40	51.5	48.5	45.0	42.0	39.0
	45	54.5	51.0	47.5	44.0	41.0

* PER ANSI STANDARD 05.1-1992

DESIGNED	CS
DRAWN	REC
DATE	08/23/01

DESIGNED	REDRAWN
DRAWN	CRG
DATE	11/3/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



MACRO

DESCRIPTION
AVERAGE POLE WEIGHTS

PAGE
307-4

AVERAGE WEIGHT

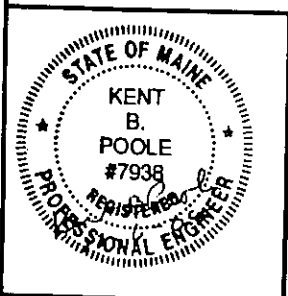
Length	Class	Southern Pine Poles	Western Red Cedar Poles	Eastern White Cedar Poles
30	1	1122#	800#	
35	1	1441#	960#	
40	1	1793#	1200#	
45	1	2162#	1440#	
50	1	2563#	1600#	
55	1	3258#	1840#	
60	1	3756#	2080#	
30	2	979#	680#	
35	2	1254#	800#	
40	2	1551#	1040#	
45	2	1876#	1240#	
50	2	2222#	1440#	
55	2	2826#	1600#	
60	2	3252#	1760#	
30	3	847#	585#	870#
35	3	1084#	680#	1060#
40	3	1348#	880#	1250#
45	3	1623#	1040#	
50	3	1925#	1240#	
55	3	2448#	1400#	
60	3	2820#	1600#	
30	4	732#	490#	630#
35	4	941#	600#	820#
40	4	1166#	720#	1020#
45	4	1408#	920#	
50	4	1672#	1120#	
55	4	2124#	1280#	
60	4	2442#	1520#	
25	5	473#		420#
30	5	638#	400#	520#
35	5	814#	520#	720#
40	5	1012#	640#	790#
45	5	1221#	800#	

DESIGNED	REVISOR	REVISION
DRAWN	CS	
DATE	REC	12/26/02
	CMH	8/23/01



ORIGINAL	REDRAWN
DESIGNED	GRC
DRAWN	DATE
	11/3/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

The following tables and graphs may be used to determine the minimum pole class requirements for inline poles, guyed poles and poles with heavy equipment.

Wire load factors are provided in order to determine total storm loading on poles.

TABLE 1 CMP INLINE POLE ATTACHMENTS

<u>Type Of Attachment</u>	<u>Wire Load Factor</u>	<u>Type of Attachment</u>	<u>Wire Load Factor</u>
*6 WP	1.3	*6A Copperweld	1.2
*4 WP	1.4	*4A Copperweld	1.3
*2 WP	1.5	*2A Copperweld	1.4
*1/0 WP	1.6	*4 ACSR	1.3
*2.0 WP	1.7	*2 ACSR	1.3
*4/0 WP	1.8	*1/0 ACSR	1.4
*2 Triplex Cable	1.6	*4/0 ACSR	1.6
*1/0 Triplex Cable	1.9	*1/0 AAAC	1.4
336.4 MCM WP Aluminum	1.8	336.4 MCM Aluminum	1.7
15 kV 1/0 AAAC Tree Wire	1.7	35 kV 1/0 AAAC Tree Wire	2.0
15 kV 336.4 MCM Alum Tree Wire	2.0	35 kV 336.4 MCM Alum Tree Wire	2.3
<u>15 kV Spacer Cable</u>		<u>35 kV Spacer Cable</u>	
1/0 3φ	6.8	1/0 3φ	7.7
336.4 3φ	7.7	336.4 3φ	8.5
1/0 1φ	3.4	1/0 1φ	3.6

DESIGNED	CS	DRAWN	CMH
DATE	8/23/01		

DESIGNED	GRG	DRAWN	JFC
DATE	5/28/92		

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

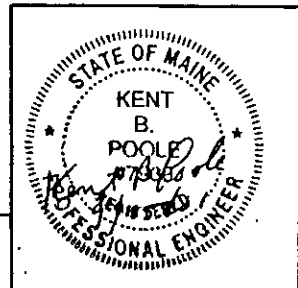


TABLE 2 - COMMUNICATION COMPANY INLINE POLE ATTACHMENTS

DESIGNED	REVISER	REVISION
DRAWN	CS	
DATE	REC	
	10/05/01	

Wire Load Factor
Based on Mutual Excess Height Pole
Pole Length

Type of attachment	30'	35'	40' *	45' *	50' *
C rural wire	1.1	0.9	0.9	0.9	0.8
CATV or fiber optic cable (Based on 1/4" messenger and 1" cable)	2.1	1.8	1.7	1.6	1.6
Cable on 6M (5/16") strand (Based on 1.5" cable)	2.6	2.2	2.1	2.0	2.0
Cable on 10M (3/8") strand (Based on 2.5" cable)	3.5	3.1	2.9	2.8	2.7
Cable on 16M (7/16") strand (Based on 3.5" cable)	4.5	3.9	3.7	3.6	3.5

*Use wire load factor for 35' pole for communication cables less than 10' from top of pole.

Add the wire load factors for all the inline wires and cables expected to be attached to the pole. For junction poles, use the attachments in whichever direction results in the larger pole. Refer to page 307-13 depending on the situation to determine the required class of pole.

CABLE OR WIRE NOT SHOWN ABOVE

To calculate wire load factor for cable or wire not shown in Table 1 or 2, use the following formula:

Wire Load Factor:
$$\frac{\text{Height of wire at pole} \times (1 + \text{wire or cable diameter})}{\text{Pole height factor}}$$

ORIGINAL	GRG	JEC
DESIGNED		
DRAWN		
DATE	5/14/93	

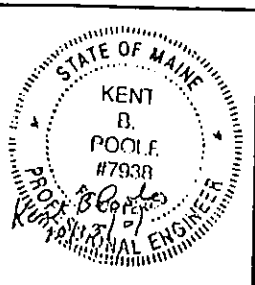
	30'	35'	40'	45'	50'	55'	60'
Pole length	= 30'	= 35'	= 40'	= 45'	= 50'	= 55'	= 60'
Pole height factor	= 22.5	= 27	= 32	= 36.5	= 41	= 45.5	= 50

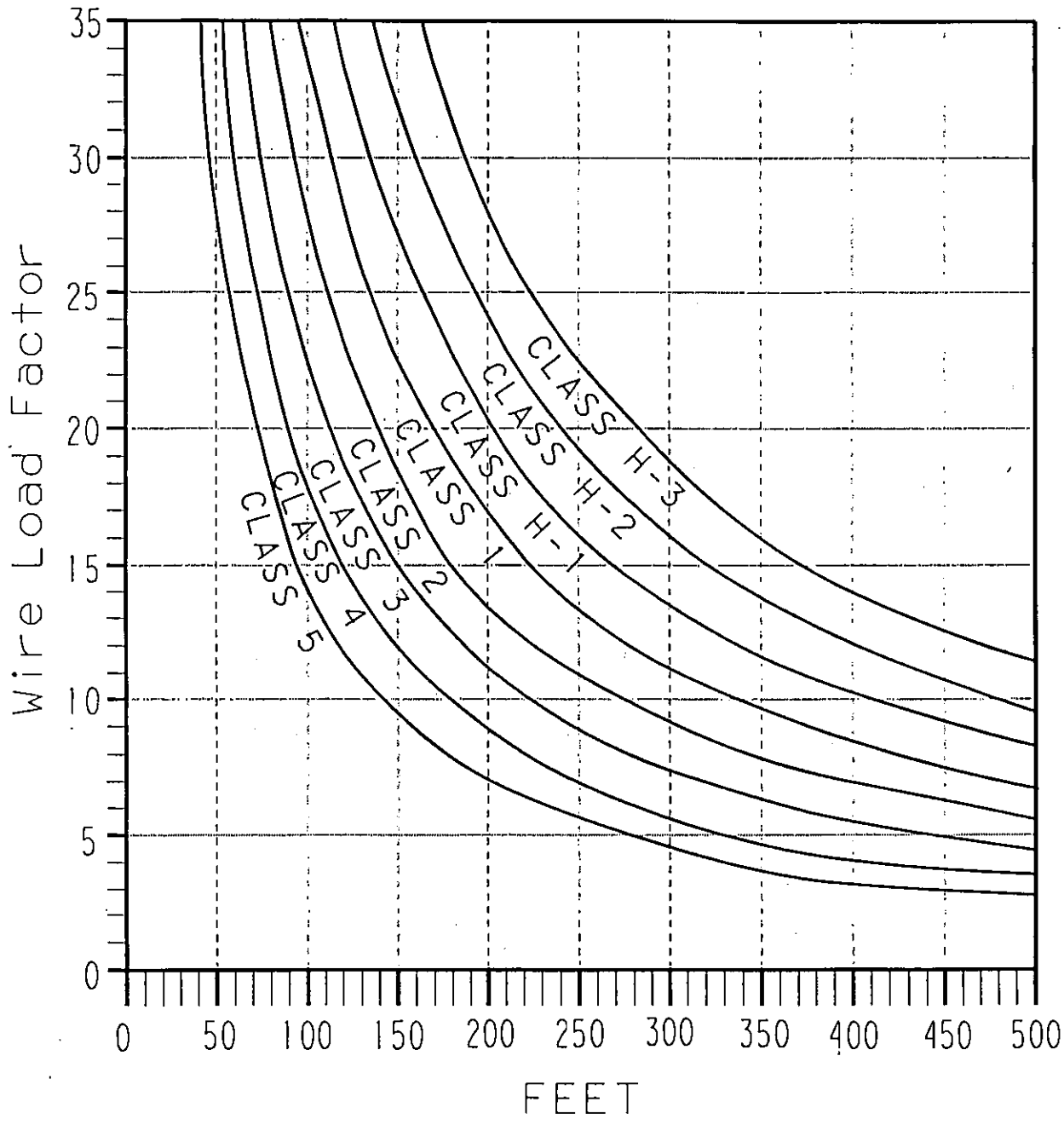
Spacer cable: Height for messenger and all cables equals the height of the spacer cable bracket above ground. The messenger and cable wire load factor must be calculated for each wire separately.

Triplex and quadraplex: Cable diameter is the overall diameter of the bundled cable.

CATV and telephone cables: Cable diameter equals the diameter of the strand plus the diameters of all the cables lashed to it. For cable in rings, the wire load factor must be calculated separately for the messenger and the cable.

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





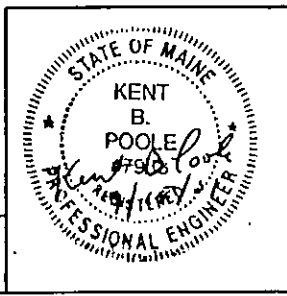
Average of adjacent spans

Grade "B", for limited access highway and railroad crossing, spans and spans over lines that cross limited access highway or railroad in the same span.

DESIGNED	JAD	CS
DRAWN		REC
DATE	3/22/93	08/23/01

DESIGNED	GRC
DRAWN	JEC
DATE	5/29/92

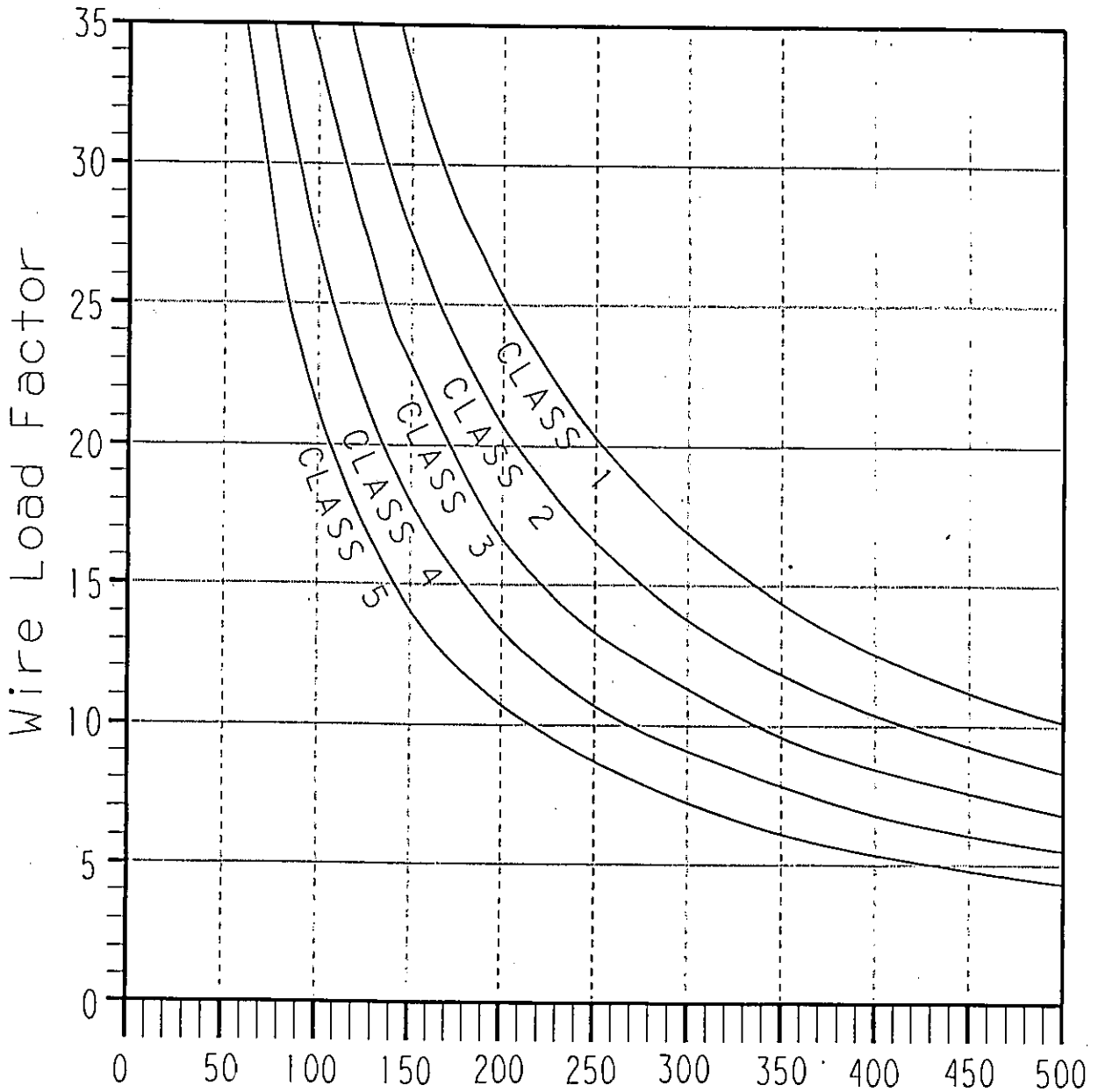
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



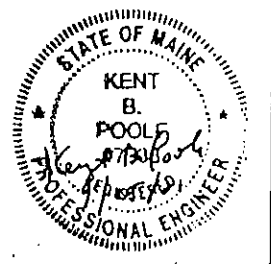
DESIGNED	GRG	REVISOR	CS
DRAWN		REVISION	REC
DATE	3/24/93		08/23/01

DESIGNED	GRG	ORIGINAL	
DRAWN	JEC		
DATE	5/29/92		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Average of adjacent spans



Grade "C", for all primary lines other than spans that cross limited access highways or railroads and spans crossing over spans that cross limited access highways or railroads



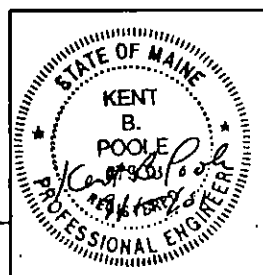
DESCRIPTION
POLE CLASSIFICATION - GUYED POLES

MACRO

TABLE #4 MINIMUM POLE CLASS REQUIREMENTS FOR GUYING IN CMP SPACE
(Disregard guys in communication space)

Required Guying	5/16" GUY	7/16" GUY	2-5/16" GUY5	2-7/16" GUY5
Pole Height				
Lead in Feet	30' 35' 40' 45' 50'	30' 35' 40' 45' 50'	30' 35' 40' 45' 50'	30' 35' 40' 45' 50'
10' or Less	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
12'	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
14'	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
16'	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
18'	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
20'	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
22'	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
24'	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
26'	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
28'	5 5 5 5 5	5 4 4 4 3	4 4 4 4 3	3 3 3 3 3
30'	6 6 6 6 6	5 5 5 5 4	5 5 5 5 4	4 4 4 4 3
32'	6 6 6 6 6	5 5 5 5 4	5 5 5 5 4	4 4 4 4 3
34'	6 6 6 6 6	5 5 5 5 4	5 5 5 5 4	4 4 4 4 3
36'	6 6 6 6 6	5 5 5 5 4	5 5 5 5 4	4 4 4 4 3
38'	6 6 6 6 6	6 6 6 6 6	5 5 5 5 4	4 4 4 4 3
40'	6 6 6 6 6	6 6 6 6 6	5 5 5 5 4	4 4 4 4 3
42'	6 6 6 6 6	6 6 6 6 6	5 5 5 5 4	4 4 4 4 3

* Indicates that pole cannot be guyed with this short length of load.
 NOTE: All poles (class 6 or larger) are large enough to be guyed by a single 1/4" guy.
 NOTE: Class 6 poles are usable for secondary lift poles, for aerial service lift poles and for area lighting.
 EXAMPLE: The minimum required pole class for a 40' pole guyed by a 7/16" guy with a lead of 16 feet is 4.



DESIGNED	CS
DRAWN	REC
DATE	08/23/01

DESIGNED	REORAWN
DRAWN	CRG
DATE	11/3/94

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

TABLE 5: MAXIMUM ALLOWABLE WEIGHT OF HEAVY EQUIPMENT MOUNTED ON POLES

The table below lists the maximum allowable weight of heavy equipment for each pole class and pole height. Single unit mounts include: single phase transformers, three phase transformers, regulators, reclosers, capacitor banks, etc. Cluster mounted units will be limited to three phase transformer banks. Two transformers mounted on the same pole shall be limited to the same allowable weight as a cluster unit. (Safety factor - 3). Large single unit mounts shall be guyed to offset the unbalance. Heavier equipment than listed below may be mounted on a pole if the equipment is positioned lower on the pole.

If the pole is guyed or is to be guyed, check the pole class requirements for guying and determine whether or not a stronger pole than required below is necessary. This table applies to all new poles and existing poles that are in good condition.

DESIGNED	REVISED	REVISED
DRAWN	CS	CMH
DATE	08/23/01	

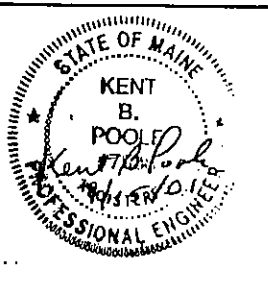
Pole Height	Pole Class	Maximum allowable weight of equipment mounted 3 feet from top of pole		Maximum allowable weight of equipment mounted 7 feet from top of pole	
		Single Unit	Cluster Unit	Single Unit	Cluster Unit
30'	5	1288 lbs.	2577 lbs.	2104 lbs.	4208 lbs.
	4	1914 lbs.	3829 lbs.	3049 lbs.	6098 lbs.
	3	2821 lbs.	5642 lbs.	4417 lbs.	8835 lbs.
	2	3837 lbs.	7674 lbs.	5951 lbs.	11902 lbs.
	1	5255 lbs.	10511 lbs.	8091 lbs.	16183 lbs.
35'	5	930 lbs.	1861 lbs.	1423 lbs.	2847 lbs.
	4	1466 lbs.	2933 lbs.	2172 lbs.	4344 lbs.
	3	2159 lbs.	4318 lbs.	3140 lbs.	6280 lbs.
	2	3037 lbs.	6074 lbs.	4366 lbs.	8732 lbs.
	1	4130 lbs.	8261 lbs.	5893 lbs.	11787 lbs.
40'	5	717 lbs.	1434 lbs.	1044 lbs.	2089 lbs.
	4	1140 lbs.	2281 lbs.	1603 lbs.	3206 lbs.
	3	1683 lbs.	3367 lbs.	2318 lbs.	4637 lbs.
	2	2365 lbs.	4731 lbs.	3218 lbs.	6436 lbs.
	1	2703 lbs.	5406 lbs.	4330 lbs.	8660 lbs.
45'	5	571 lbs.	1142 lbs.	809 lbs.	1619 lbs.
	4	922 lbs.	1845 lbs.	1256 lbs.	2512 lbs.
	3	1370 lbs.	2740 lbs.	1824 lbs.	3649 lbs.
	2	1999 lbs.	3999 lbs.	2624 lbs.	5248 lbs.
	1	2703 lbs.	5406 lbs.	3518 lbs.	7036 lbs.
50'	5	468 lbs.	936 lbs.	651 lbs.	1302 lbs.
	4	769 lbs.	1538 lbs.	1022 lbs.	2045 lbs.
	3	1149 lbs.	2298 lbs.	1492 lbs.	2984 lbs.
	2	1681 lbs.	3362 lbs.	2148 lbs.	4297 lbs.
	1	2346 lbs.	4692 lbs.	2970 lbs.	5940 lbs.

DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	GRC
11/7/94	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

Listed below are typical weights of distribution transformers. For step-downs and regulators check name plates for weights.

10 kVA - 265 lbs.	50 kVA - 680 lbs.	250 kVA - 1975 lbs.
15 kVA - 255 lbs.	75 kVA - 930 lbs.	333 kVA - 2475 lbs.
25 kVA - 470 lbs.	100 kVA - 1060 lbs.	500 kVA - 3200 lbs.
37.5 kVA - 580 lbs.	167 kVA - 1625 lbs.	



Example 1: Determine the class of pole required to support the following wires and equipment on a 40 foot, unguyed pole with a 150 foot average span;

3 - 336.4 MCM bare aluminum primaries, 1 - 336.4 MCM bare aluminum neutral, 1 - 1/0 triplex secondary, 1 - 5/16" strand supporting telephone cable, CATV and 1 - 75 kVA transformer mounted 3 feet from the top.

Height of pole - 40 feet
Length of span - 150 feet

	<u>Type of Wire</u>	<u>Wire Load Factor</u>
From Table #1	3 - 336.4 MCM bare aluminum primaries	3 x 1.7 = 5.1
From Table #1	1 - 336.4 MCM bare neutral	1 x 1.7 = 1.7
From Table #1	1 - 1/0 triplex secondary	1 x 1.9 = 1.9
From Table #2	1 - 5/16 strand and telephone cable	1 x 2.1 = 2.1
From Table #2	1 - CATV	1 x 1.7 = 1.7
Total equivalent wire load factor		12.5

The total wire load factor is 12.5. Go to Graph 2, page 307-8. Graph 2 shows that for 150 foot spans and a 12.5 wire load factor, the minimum class of pole required is class 5.

Table #5 on page 307-10 must be checked in this case also. Table #5 shows the minimum class of pole required to support a 75 kVA transformer mounted 3 feet from the top of a 40 foot pole is class 4.

In every case, the strongest pole required shall be used. For this sample case a class 4 or larger pole must be used.

Example 2: If the same pole above is to be used as a corner pole, all three loadings must be checked. In this example the same pole above will be used as a 20 foot corner. The guy will have an 8 foot lead requiring the use of 2 - 5/16 guys, page 309-2.

Graph 2 and Table 5 will give the same class of pole as above. Graph 2 requires a class 5 pole because of conductor loading. Table #5 requires a class 4 pole because of equipment loading.

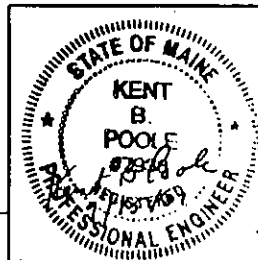
Table #4 on page 307-9 requires a class 3 pole for a pole guyed with 2 - 5/16" guys with 8 feet of lead.

CONTINUED ON PAGE 307-12

DESIGNED	CS			
DRAWN	CMH			
DATE	8/31/01			

DESIGNED	GRC			
DRAWN				
DATE	5/14/93			

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



MACRO	DESCRIPTION POLE CLASSIFICATION - EXAMPLE	PAGE 307-12
-------	--	----------------

Again, the strongest pole necessary must be used. In this case the Class 3 or larger pole must be used to satisfy all the loading requirements from conductors, equipment, and guying.

Example 3: All conditions remain the same as in Example 2, however, the length of the guy lead is increased to 17 feet allowing the use of 1 - 5/16th" guy, page 309-2.

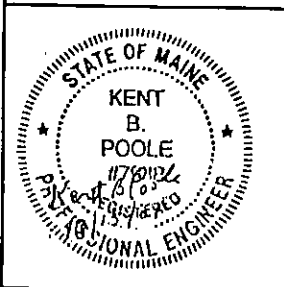
The pole class due to conductor and equipment loading remains the same as above, Class 5 and Class 4 respectively.

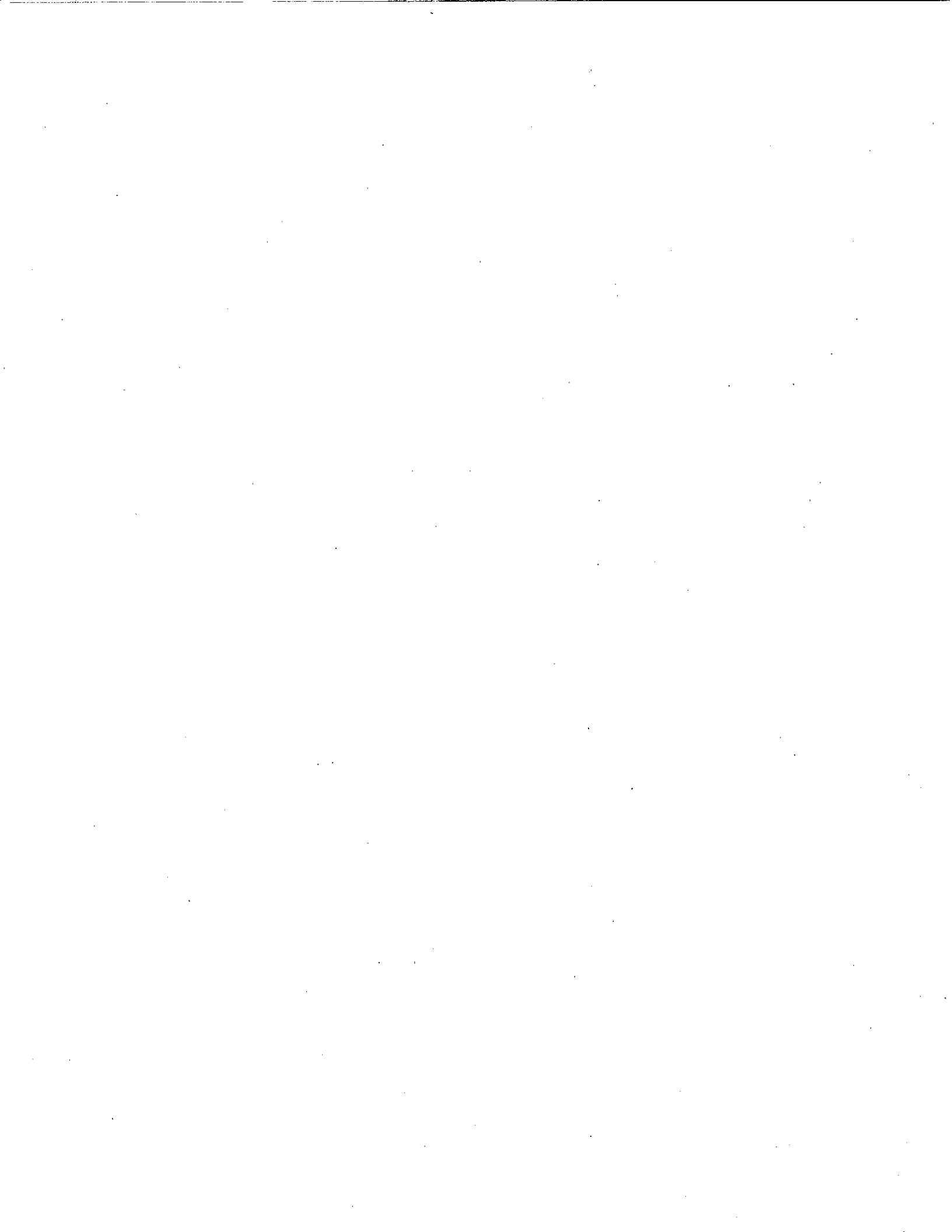
However, Table #4 on page 307-9 requires a Class 5 pole for a pole guyed with 1 - 5/16" guy with 17 feet of lead. Once again the strongest pole necessary must be used. In this case a Class 4 pole must be used to satisfy all the loading requirement from conductors, equipment and guying.

DESIGNED	REVISOR	REVISION
CS		
DRAWN	CMH	
DATE	10/01/01	

DESIGNED	ORIGINAL
DRAWN	
DATE	9/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





POLE SETTING

Poles shall be set according to chart specified below:

TABLE 1: POLE SETTING DEPTHS

Length of pole (in feet)	Minimum Setting Depth (1)		
	Soil	Combination Soil and Ledge (2)	Ledge (3)
25	5' 0"	4' 6"	3' 6"
30	5' 6"	4' 6"	3' 6"
35	6' 0"	5' 0"	4' 0"
40	6' 0"	5' 0"	4' 0"
45	6' 6"	5' 6"	4' 6"
50	7' 0"	6' 0"	4' 6"
55	7' 6"	6' 0"	5' 0"
60	8' 0"	7' 0"	5' 6"
70	9' 0"	7' 6"	6' 0"

- (1) Set 6' deeper for hard corners, limited access highway and railroad crossings.
- (2) Combination setting depths may be used when at least half the hole is in solid ledge, otherwise use soil setting depths.
- (3) Ledge depths shall be used only when the diameter of the hole in ledge is not larger than twice the diameter of the pole.

On side hills, hole depth shall be measured from downhill side of hole.

When a pole is to be set in soft soil where digging is difficult and setting is insecure, the pole may be set in a barrel worked into a hole to the required depth. All holes shall be dug as small in diameter as practical. Holes shall be generally dug only large enough to receive the butt end of the pole and to allow the use of tamping bars around the pole.

Tamping bars shall be used to tamp backfill around the pole for the full depth of the hole after the pole has been set. Backfill shall be placed and tamped in lift no greater than 12".

Pole relocations by trenching shall be limited to 4 feet from the original site. The new hole shall be dug first, then a trench dug from the original site to the new site. Backfilling shall be done in such a manner as to provide thorough tamping of the fill material in the trench and around the pole.

When setting poles, all loose dirt shall be removed from the hole before setting the pole into the hole.

All deadend and corner poles shall be raked against the pull of the line. That rake shall be 2' of rake per 10' of pole.

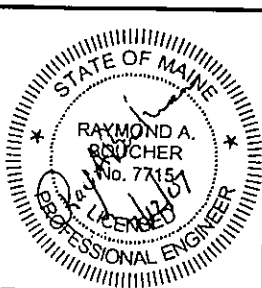
Poles shall be set, face of pole to stake. (exception, when a stake cannot be set in the proper place a reference stake may be set).

NO.	REVISION	DATE	BY
1	Changed Test Last Paragraph	7/27/94	MA



ORIGINAL	DESIGNED	DATE
REDRAWN	DRAWN	11/8/94
	GRC	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY









MACRO

DESCRIPTION
JOINT USE OF POLES - POLE SPACE

PAGE
308-1

DESIGNED	JEC	CS	CS
DRAWN	GRG	REC	REC
DATE	11/25/96 10/05/01 11/30/05		

NOTE:

STREET LIGHT BRACKETS MAY BE MOUNTED IN THE SAFETY ZONE, PROVIDED N.E.S.C. REQUIREMENTS ARE MET.
See page 305-3

EFFECTIVELY GROUNDED, NON-CURRENT CARRYING EQUIPMENT MAY EXTEND 10' INTO THE 40' SAFETY ZONE.

SPACE TAG TO BE PLACED AT TOP OF COMMUNICATION SPACE, ON ROAD SIDE OF ALL POLES.

MID#6000B15517

SPACE TAG

CMPCo MIN. HEIGHT D

COMMUNICATIONS SPACE B

COMMUNICATIONS MAX. HEIGHT C

GROUND LINE

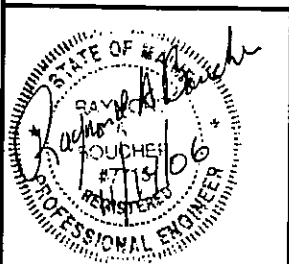
CMPCo SPACE A

SAFETY ZONE 40'



ORIGINAL	DESIGNED	REDRAW	GRG
	DRAWN		DATE
			4/21/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

PAGE 308-2	DESCRIPTION JOINT USE OF POLE - POLE SPACE	MACRO
----------------------	--	--------------

A Space Allocation Tag, Material I.D.#6000815517 will be placed at the Top of the communication pole space on all new installations. Telephone and CATV companies will attach below this tag.

Field Planners will indicate in (SAP) (WMS) the proper measurement (from the top of the pole down) where the tag will be placed on the pole.

The measurements will be determined from the Distribution Construction Standards, page 308-3.

At the time of installation, the crew installing the pole(s) will place the tag on the pole(s) measuring from the top of the pole(s) down.

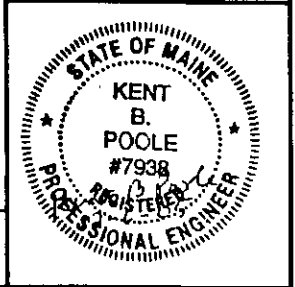
DESIGNED	CS	CS
DRAWN	REC	REC
DATE	08/31/01	12/06/05



Space Allocation Tag
MID#6000815517

DESIGNED	JEC
DRAWN	GRG
DATE	11/25/96

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

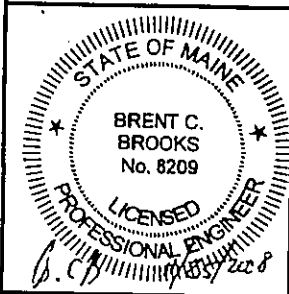


THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	REDRAWN
DRAWN	GRG
DATE	11/14/94



NO.	REVISION	DATE	BY	CL.
1	Good table pole heights, added CMP space inches	11/26/07		
2	Good values in table, combined values	05/12/08		
3	Added Mutual Excess Height section	10/30/08		



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

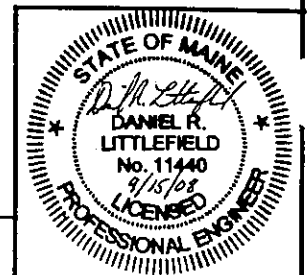
MACRO	DESCRIPTION	PAGE
	JOINT USE OF POLE - POLE SPACE	308-3

	(A) CMPCo. SPACE		Space Tag		(B) Comm. SPACE		(C) Comm. HEIGHT		(D) CMPCo. HEIGHT	
	POLE SIZE	Et/In	Inches	Location Ft/In	Location Inches	SPACE	MAX. HEIGHT	MIN. HEIGHT	MIN. HEIGHT	MIN. HEIGHT
STANDARD POLE	40'	6'6"	78'	9'10"	118'	6'0"	24'2"		27'6"	
MUTUAL EXCESS HEIGHT (OVER A 40' POLE)	45'	6'6"	78'	9'10"	118'	6'0"	28'8"		32'0"	
	50'	6'6"	78'	9'10"	118'	6'0"	33'2"		36'6"	
	55'	6'6"	78'	9'10"	118'	6'6"	37'8"		41'0"	
MUTUAL EXCESS SPACE (OVER A 40' POLE)	45'	8'9"	105'	12'1"	145'	8'3"	26'5"		29'9"	
	50'	11'0"	132'	14'4"	172'	10'6"	28'8"		32'0"	
	55'	13'3"	159'	16'7"	199'	12'9"	0'11"		34'3"	
FULL EXCESS SPACE. FOR CMPCo. (OVER A 40' POLE)	45'	11'0"	132'	14'4"	172'	3'6"	21'8"		25'0"	
	50'	15'6"	186'	18'10"	226'	3'6"	21'8"		25'0"	
	55'	20'0"	240'	23'4"	280'	6'0"	24'2"		27'6"	
FULL EXCESS SPACE FOR TELCO (OVER A 40' POLE)	45'	6'6"	78'	9'10"	118'	10'6"	28'8"		32'0"	
	50'	6'6"	78'	9'10"	118'	15'0"	33'2"		36'6"	
	55'	6'6"	78'	9'10"	118'	19'6"	37'8"		41'0"	
CMPCo. BUYS 5' FES WITH MES TO 45' WITH MES TO 50'	50'	13'3"	159'	16'7"	199'	8'3"	26'5"		29'9"	
	55'	15'6"	186'	18'10"	226'	10'6"	28'8"		32'0"	
TELCO. BUYS 5' FES WITH MES TO 45' WITH MES TO 50'	50'	8'9"	105'	12'1"	145'	12'9"	30'11"		34'3"	
	55'	11'0"	132'	14'4"	172'	15'0"	33'2"		36'6"	
CMPCo. BUYS 10' FES WITH MES TO 45'	55'	17'9"	213'	21'1"	253'	8'3"	26'5"		29'9"	
TEL. Co. BUYS 10' FES WITH MES TO 45'	55'	8'9"	105'	12'1"	145'	17'3"	35'5"		38'9"	
OPTIONAL 35' POLE	35'	4'0"	48'	7'4"	88'	3'6"	21'8"		25'0"	

MEH=Mutual Excess Height - MES=Mutual Excess Space - FES=Full Excess Space

Phase Conductor/ Neutral Conductor	Highest Neut. Pos.		Min. CMP Space		Std. Pole Top		Semi-Strain or Deadend	
	Span	30' Pole Top	Std. Pole Top	Semi-Strain or Deadend	Minimum Pole Height/Coordination	Tag Loc	Lowest Allowable Neutral Position	Tag Loc
1/0 AAAC Bare/ 1/0 AAAC Bare	150 175 200	18 18 18	46 46 47	46 46 47	40' STD 40' STD 40' STD	118 118 118	78 78 77	118 118 118
250' ruling span	225 250 275	18 18 26	55 63 73	59 73 91	40' STD 40' STD 40' STD	118 118 118	69 61 52	118 118 145
	300	34	88	108	45' MES	145	69	172
	325	43	109	129	45' FES or 50' MES	172	85	172
	350	52	129	149	45' FES or 50' MES	172	73	199
1/0 AAAC 15KV Covered/ 1/0 AAAC Bare	150 175 200	18 18 19	46 46 47	46 49 58	40' STD 40' STD 40' STD	118 118 118	78 78 77	118 118 118
250' ruling span	225 250 275	29 38 51	56 73 96	76 93 116	40' STD 40' STD 45' MES	118 118 145	69 61 79	118 145 172
	300	64	118	138	45' FES or 50' MES	172	96	199
	325	79	144	164	55' MES	199	112	226
	350	93	170	190	50' FES	226	127	253
1/0 AAAC 35KV Covered/ 1/0 AAAC Bare	150 175 200	18 24 35	46 46 54	51 62 74	40' STD 40' STD 40' STD	118 118 118	78 78 77	118 118 118
250' ruling span	225 250	48 61	75 96	95 116	40' STD 45' MES	118 145	69 88	145 172
	275	79	123	143	45' FES or 50' MES	172	106	199

1. Where additional ground clearance is needed (ex. Road crossing), alternate space tag locations are possible as long as consideration is given to minimum CMP space. See example #1, page 308-1.



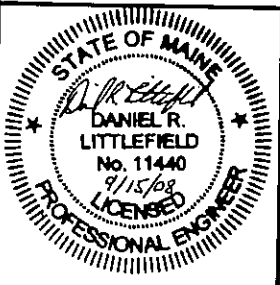
DRAWN	REC
DATE	03/12/08

BE REVISED ON THE
CADD SYSTEM ONLY

NO.	REVISION	DATE	BY	CL.
1	Changed text size & example page #	09/15/08		

DESIGNED	CS
DRAWN	REC
DATE	03/12/08

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



Phase Conductor/ Neutral Conductor	Span	Highest Neut. Pos.		Min. CMP Space		Std. Pole Top		Semi-Strain or Deadend		Lowest Allowable Neutral Position
		Std. Pole Top	Semi-Strain or Deadend	30' Pole Top	Std. Pole Top	Semi-Strain or Deadend	Minimum Pole Height/Coordination	Lowest Allowable Neutral Position	Minimum Pole Height/Coordination	
	300	114	134	96	150	170	199	123	50' FES	226
	325	134	154	116	181	201	226	139	MES to 45' w/10' FES (55')	253
	350	153	173	135	212	232	253	154	50' FES or MES	280
336.4 AL Bare/	150	46	46	18	47	47	118	77	40' STD	118
336.4 AL Bare	175	46	46	18	59	59	118	66	40' STD	118
	200	46	46	18	70	70	118	54	40' STD	118
	225	46	46	18	85	85	145	67	45' MES	145
250' rulling span	250	46	46	18	99	99	145	52	45' MES	145
2000 lb. maximum tension	275	46	46	18	117	117	172	61	45' FES or 50' MES	172
	300	46	47	18	135	136	199	70	55' MES	199
	325	46	53	18	156	163	199	49	50' FES	226
	350	46	58	20	177	189	226	55	MES to 45' w/10' FES (55')	253
336.4 AL 15kV Covered/	150	46	46	18	47	47	118	77	40' STD	118
336.4 AL Bare	175	46	46	18	59	59	118	66	40' STD	118
	200	46	46	18	70	70	118	54	40' STD	118
	225	46	52	18	85	91	145	67	45' MES	145
250' rulling span	250	46	59	21	99	112	145	52	45' FES or 50' MES	172
2000 lb. maximum tension	275	48	68	30	119	139	172	61	55' MES	199
	300	57	77	39	146	166	199	70	50' FES	226
	325	67	87	49	177	197	226	76	MES to 45' w/10' FES (55')	253
	350	77	97	59	208	228	253	82	50' FES OR MES	280



1. Where additional ground clearance is needed (ex. Road crossing), alternate space tag locations are possible as long as consideration is given to minimum CMP space. See example #1, page 308-7.

MACRO

DESCRIPTION
EXAMPLE #1

PAGE
308-7

45' POLE FOR ROAD CROSSING, 40' POLE SPACING

NO.	REVISION	DATE	CR.
1	Changed page from 308-6 to 308-7	06/19/08	

NOTE:
VALID FOR SPANS TO 175'
WITH 1/0 AAAC

SPACE TAG TO BE PLACED AT
TOP OF COMMUNICATION SPACE,
ON ROAD SIDE OF ALL POLES.

MID#6000815517

SPACE
TAG

CMPCo MIN. HEIGHT

32'

22' 8'

GROUND
CLEARANCE

COMMUNICATIONS
SPACE

6"

COMMUNICATIONS MAX. HEIGHT C

GROUND LINE

CMPCo
SPACE

78'

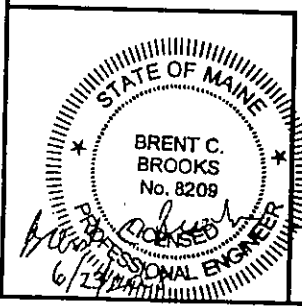
SAFETY ZONE

40'



ORIGINAL	DESIGNED	DRAWN	DATE
CS	REC		02/21/08

THIS DRAWING SHALL
BE REVISYED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS







GUYING

GENERAL: Guys shall be installed wherever necessary to balance any load which tends to pull a pole, crossarm, or other structure out of place as at deadends, or angles in the line great enough to move the pole. Guys shall also be required when there are changes in the number, size or material of line conductors. This is to prevent undue increase of sag in the conductors as well as to provide sufficient strength to support ice and wind loads with the safety factors required by the code.

See construction drawing for guy attachments.

Guys shall also be installed where additional safety is required for unusually exposed poles, and where required by law or specified by another utility which is being crossed by the line.

Poles carrying services which cause an unbalanced side pull and poles on which secondaries are deadended shall also be guyed.

SIZE OF GUYS: Two methods for determining the size and number of guys are provided. Pages 309-1 and 309-2 provide tables for guying single phase and three phase lines respectively, based on a tension factor of 2.0 (2000*) for each conductor and allowing for wind loading and safety factors required by the code. Page 309-3 provides a table for 3 phase long span construction, based on a tension factor of 3.0 (3000 lbs. maximum loaded tension). Pages 309-5 and 309-6 provide conductor tension factors and guy tension graph. Instructions and example for use of the graph are on pages 309-7 and 309-8.

ANCHOR GUY COMPONENTS: The guy components usable on the CMP system are listed on page 309-4. Each guy component is given a maximum tension rating. This rating should never be exceeded by the guy tension graph. A complete anchor guy will be determined by choosing each individual component to meet the requirements of the particular situation. When using the guy tables on pages 309-1 and 309-2, the anchors and rods must be chosen to hold the load of all the attached guys. Each guy hook on the pole shall be limited to one guy strand, and that strand shall be matched to a guy hook of equal or greater rating.

Guy tensions exceeding 36,000 lbs. shall be referred to the Distribution Field Engineer.

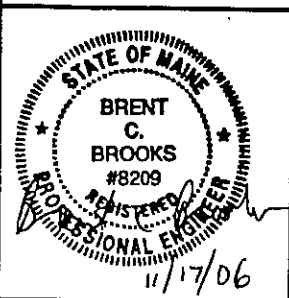
GUY ATTACHMENTS TO BUILDINGS: Guys attached to buildings are generally not permitted. Attachment of guys to buildings must be approved by the Distribution Field Engineer. Guy shall not be attached to buildings unless the proper easements for the attachments are obtained.

DESIGNED	REVISED	REVISED
DRAWN	CS	CS
DATE	REC	REC
	10/16/01	11/18/06



ORIGINAL	REVIS
DESIGNED	CS
DRAWN	REC
DATE	
	11/30/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



SINGLE PHASE GUY TABLE

Minimum Leads for Various Cases

Guy size	5/16" Guy				7/16" Guy				Two 5/16" Guy			
Pole Size	45	40	35	30	45	40	35	30	45	40	35	30
Deadend	22	19	16	15	13	11	9	9	10	9	8	7
Corner = 50'	22	19	16	15	13	11	9	9	10	9	8	7
47'	20	18	15	14	12	10	9	8	9	8	7	6
43'	18	16	14	12	11	10	8	7	9	8	7	6
40'	17	15	13	12	10	9	8	7	8	7	6	6
37'	16	14	12	11	9	8	7	7	8	7	6	5
33'	14	12	10	10	9	8	6	6	7	6	5	5
30'	13	11	10	9	8	7	6	5	6	6	5	5
27'	12	10	9	8	7	6	5	5	6	6	5	5
23'	10	9	8	7	7	6	5	5	6	6	5	5
20'	9	8	7	6	6	5	5	5	6	6	5	5
17'	8	7	7	6	5	5	5	5	6	6	5	5
13'	7	6	5	5	5	5	5	5	6	6	5	5
10'	6	6	5	5	5	5	5	5	6	6	5	5
6'	6	6	5	5	5	5	5	5	6	6	5	5

Single Phase = 1 primary plus 1 neutral or 1 primary plus 1 secondary cable.

Lead listed is minimum for each case, greater lead may be used.

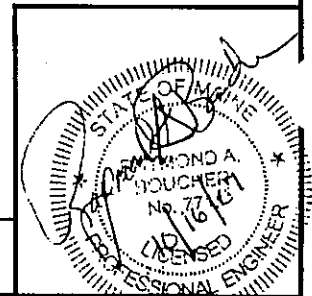
For pulls not given, minimum lead may be averaged.

For example: 35 foot pull, 35 foot pole, 5/16" guy, minimum lead 11 feet

BE REVISED UN THE
CADD SYSTEM ONLY

DRAWN
DATE 01/08/87
SGD

Ener
ast



THREE PHASE GUY TABLE

Minimum Leads for Various Cases
Maximum Tension Per Conductor - 2000 Pounds

Guy Size	5 /16 " Guy	7 /16 " Guy	Two 5 /16 " Guy
Pole Sizes	45 40 35 30	45 40 35 30	45 40 35 30
Deadend	Aerial Guy Only	30 26 22 20	22 19 16 15
Corner = 50'	Aerial Guy Only	30 26 22 20	22 19 16 15
47'	Aerial Guy Only	27 24 20 18	21 18 15 14
43'	Aerial Guy Only	24 21 18 16	18 16 14 12
40'	Aerial Guy Only	22 20 17 15	17 15 13 12
37'	44 38 33 30	20 18 15 14	16 14 12 11
33'	36 31 27 24	18 16 13 12	14 12 10 10
30'	31 27 23 21	16 14 12 11	13 11 10 9
27'	27 24 20 18	15 13 11 10	12 10 9 8
23'	22 20 17 15	13 11 10 9	10 9 8 7
20'	19 17 14 13	11 10 9 8	9 8 7 6
17'	17 15 12 11	10 9 7 7	8 7 6 6
13'	13 12 10 9	8 7 6 6	7 6 6 6
10'	11 10 8 7	7 6 5 6	7 6 6 6
6'	7 6 6 5	7 6 5 6	7 6 6 6

Three phase = 3 primary plus 1 neutral or 3 primary plus 1 secondary cable.

Lead listed is minimum for each case, greater lead may be used.

For pulls not given, minimum lead may be averaged.

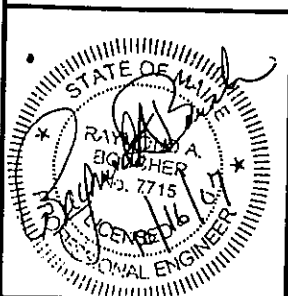
For example: 45' pull, 45 foot pole, 7/16" guy, minimum lead = 26 feet.

NO.	REVISION	DATE	CHK.
1	REM. TAP FROM 3P & CHNGD DEADEND		



DESIGNED	EVC
DRAWN	SGO
DATE	01/08/87

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



ANCHOR GUY COMPONENTS

Anchors:

The holding strength of anchors depends on the soil conditions. The values given below are average values determined by manufacturer's tests.

Anchor Type	Rad Size	Holding Strength	
		Normal	High
Power Installed 10'	3/4"	14,000*	23,000*
Power Installed 10'	1"	14,000*	36,000*
Power Installed 15'	3/4"	16,000*	23,000*
Power Installed 15'	1"	16,000*	36,000*
Expanding Rack	1"	18,000*	36,000*
Rack	5/8"		16,000*
Rack	3/4"		23,000*
Rack	1"		36,000*

Normal holding strength is for anchors installed in firm soils without difficulty. Value for 15' swamp anchor is based on anchor being run through muck or mud and at least 2 feet into firmer soil. Normal value for expanding anchor is for anchor with backfill solidly tamped into place.

High holding strength is maximum strength developed by anchor installed in the hardest soil it will penetrate. High value for expanding anchor is for anchor backfilled with stone solidly driven into place with pale tamp for bottom 3 feet of hole.

Guy Strand	Guy Hook	Maximum Strength
*1/4' EHS		
5/16' EHS	AG6X	11,200
7/16' UG	P133A with 3/4' bolt	18,000

* Not used for new construction

NOTE: All guy hooks shall be backed, using a minimum of a 3" washer.

Preformed Grips

Preformed grips are designed to develop the full strength of the guy strand they fit.

Guy Strain Insulator

Rated Strength

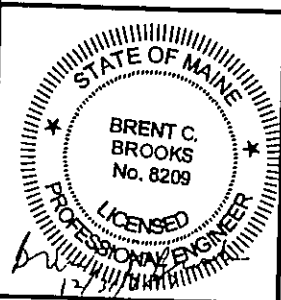
Fiberglass 36 Inch 21,000*

REVISION	DATE	CHK.
1	12/31/07	
Added NOTE to require 3" washers for guys		



ORIGINAL	DESIGNED	DATE
REDRAWN	DRAWN	12/5/94
GRG		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



PAGE 309-5	DESCRIPTION LINE TENSION FACTOR	MACRO
-----------------------------	--	--------------

ANCHOR GUY COMPONENTS - cont'd

TENSION FACTORS

<u>Wire Size</u>	<u>Tension Factor</u>	<u>Wire Size</u>	<u>Tension Factor</u>
#6 Copper	0.7	Triplex Cable	2.0
#4 Copper	1.0	Spacer Cable 252 Mess.	6.5
#2 Copper	1.5	Spacer Cable 052 Mess.	8.8
#1/0 Copper or Larger	2.0	Tel. Open Wire	0.7
#6A CW	1.5	B Wire	0.7
#4A and #2A	2.0	6M Messenger	3.6
#2 ACSR or Larger	2.0	10M Messenger	6.9
#1/0 Al or Larger	2.0	16M Messenger	10.8
#1/0 AAAC or Larger	2.0		
336, 400 CM Long Span	3.0		

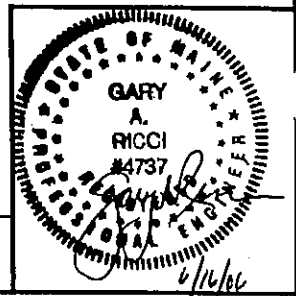
DESIGNED	CS
DRAWN	CMH
DATE	8/24/01
REC	CS
	04/19/06



East

DESIGNED	REDRAWN
DRAWN	GRG
DATE	12/5/94

BE REVISED ON THE
CADD SYSTEM ONLY



DISTRIBUTION CONSTRUCTION STANDARDS

CENTRAL MAINE POWER CO.

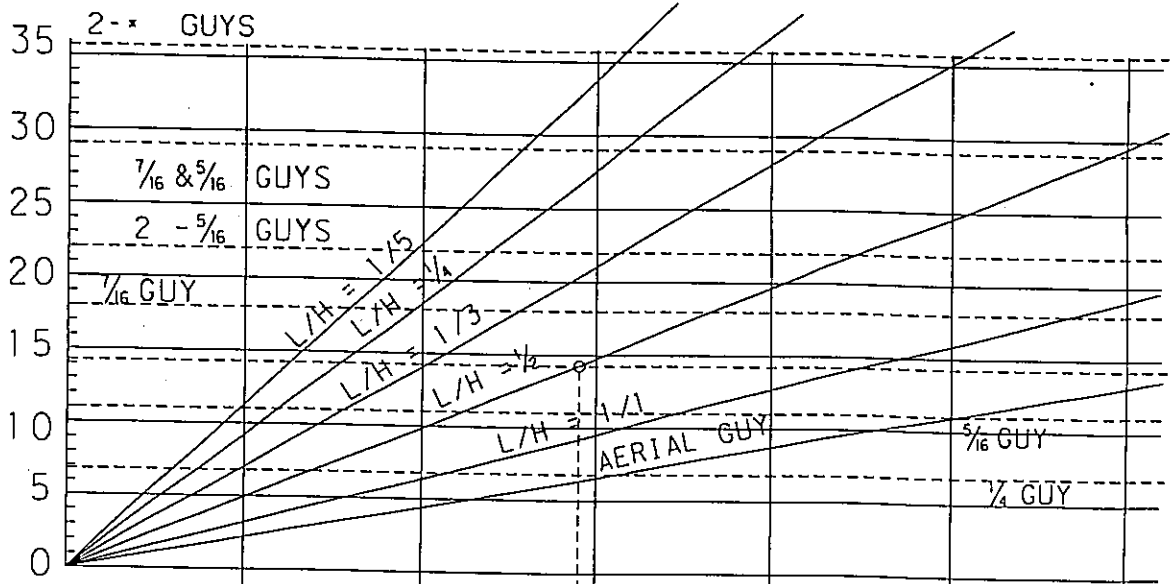
Tension greater than 36,000# refer to Distribution Field Engineer

DESIGNED	REVISOR	REVISED
DRAWN	CMH	
DATE	0/04/01	

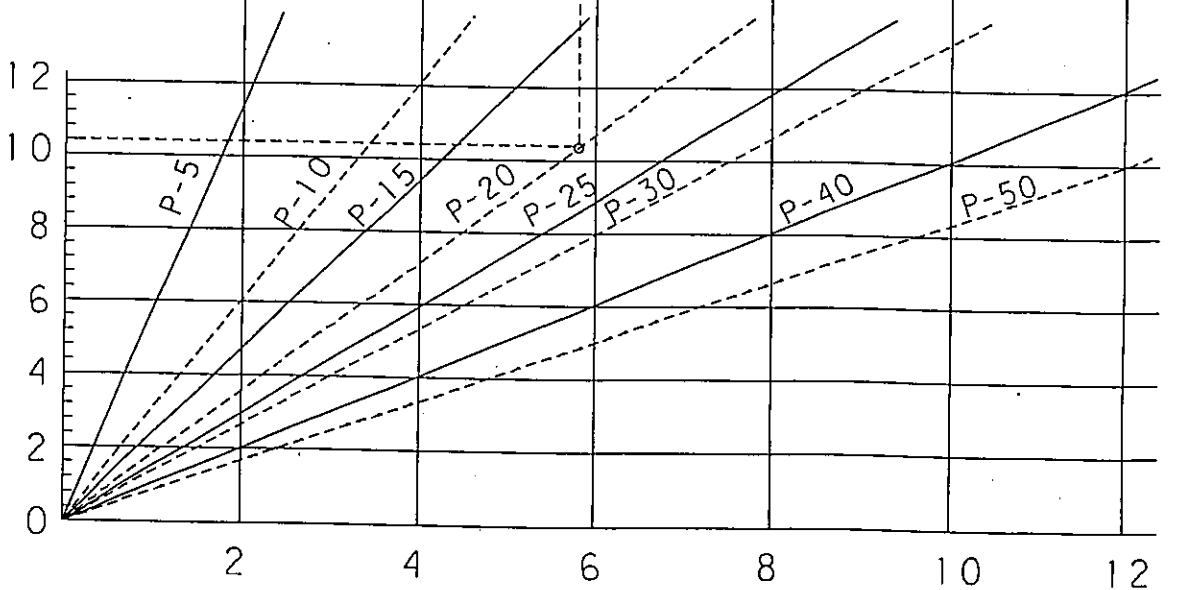
DESIGNED	REDRAWN
DRAWN	GRG
DATE	12/8/94

THIS DRAWING SHALL BE REVISED IN THE CADD SYSTEM ONLY

Guy anchor requirements - tension
Thousands of pounds

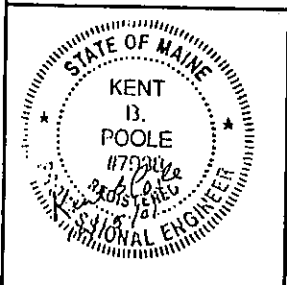


Line tension factor
Thousands of pounds



Thousands of pounds
Horizontal pull on pole

EXAMPLE 1



USE OF GUY GRAPH

For situations not covered by the single phase and three phase guying charts the graph on page 309-6 must be used. This graph has been set up for various ratios of lead/height (L/H). This ratio should be as high as possible within practical limits. A minimum L/H of 1/3 is recommended. This means that the lead on any guy shall be at least 1/3 of the height of the guy attachment. Greater leads are preferred whenever possible. Lesser leads may be used if absolutely necessary. Particular care must be used so that the pole, guy and anchor are adequate for the resulting stresses; and extra care must be used in installation to insure that the pole is set on solid soil, and the anchor is installed properly, also in solid soil.

The size and number of wires on the pole to be guyed will determine the size and number of guy components to be used. The table on page 309-5 gives the tension factors to be used with the graph.

Joint use guys should be avoided wherever possible. Joint use anchors are permitted but anchor and rod requirements must be coordinated in the field.

EXAMPLE 1. Given a 35 foot pole carrying 3-1/0 AAAC primaries and 3-#2 WP copper secondaries. What guying is required for a 20 foot corner where a lead of 14 feet is possible and the guy attachment is 28 feet above the ground? (L/H = 14/28 or 1/2).

Solution: First determine the tension factor from page 309-5.

1/0 AAAC = 2.0 per wire	3 x 2.0 =	6.0
#2 WP cu. = 1.5 per wire	3 x 1.5 =	4.5
Total tension factor is		<u>10.5</u>

On the graph, start on the bottom left tension factor scale at 10.5, go to the right to the line marked P = 20' (A). Then move straight up to the line marked L/H = 1/2 (B). Then move straight to the left scale and read the guy tension in thousands of pounds. This particular guy requirement is

approximately 14,100 pounds, so will require a 7/16" guy. If no other guy is attached to the anchor and it is in firm soil, any of the anchors listed will do. (Note: The swamp screw anchor cannot be installed in firm soil).

EXAMPLE 2. Use the example above except that a single phase tap of 2-1/0 AAAC wires is to come off the inside of the corner.

Solution: The tap coming off the inside of the corner increases the total pull on the pole. Determine the guy required for the main line as in example 1 above. By the same method, determine the guy required for the tap, which is approximately 12,000 lbs., or a 7/16" guy. If the tap guy is in line with the corner guy, a single anchor may be used. The total tension of the two guys is 14,100 lbs. plus 12,000 lbs. or 26,100 lbs., which will require a power installed 10,000* torque or a 1" rack anchor. If the two guys are not in line, separate anchors will be required.

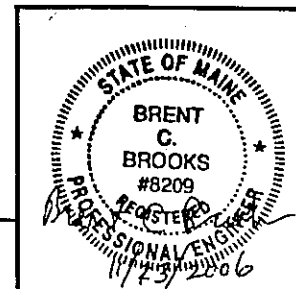
DRAWN	REC
DATE 1/0/29/01	12/26/02

Ener

ast

DRAWN	CRG
DATE 7/7/95	

BE REVISED ON THE
CADD SYSTEM ONLY



MACRO	DESCRIPTION USE OF GUY GRAPH (CONTINUED)	PAGE 309-8
-------	---	---------------

USE OF GUY GRAPH (continued)

EXAMPLE 3. Use example 2 except that the single phase tap is to come off the outside of the corner.

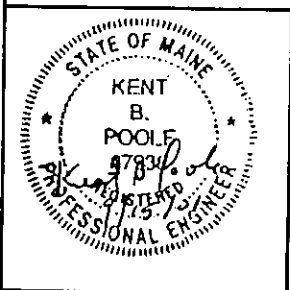
Solution: If the guy for the corner and the guy for the tap line up directly opposite each other, one of the guys may be omitted. To determine which guy may be omitted, determine the horizontal pull on the pole for each as follows:

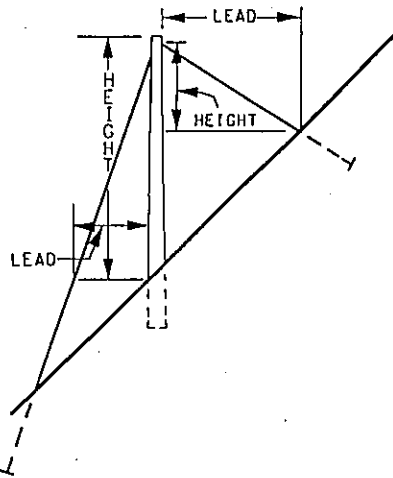
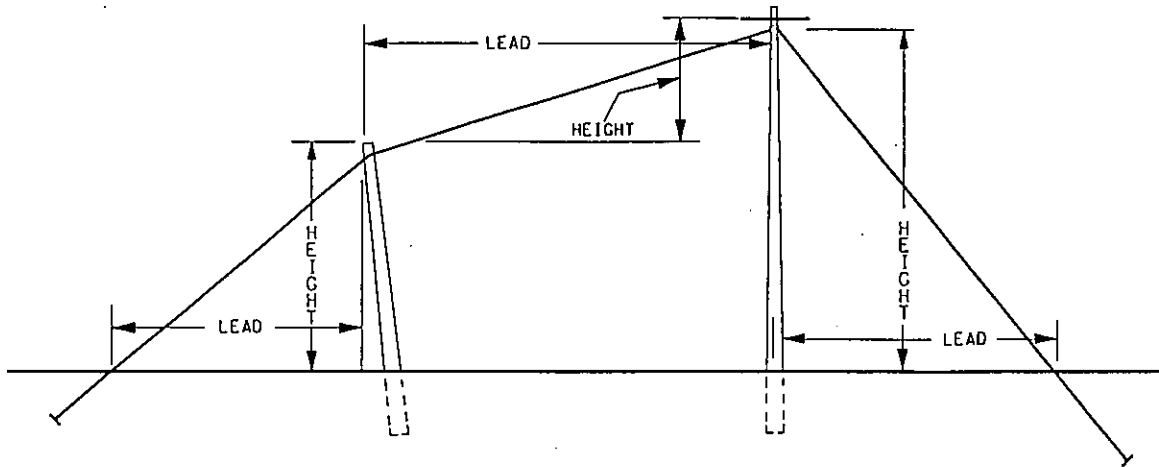
- A. Determine the tension factor of 10.5 for the main line as in example 1. On the graph, start at the bottom left tension factor scale at 10.5, go to the right to the line marked P = 20' (A). Then move straight down to the horizontal pull on pole scale at bottom, which reads approximately 5.8 thousand pounds.
- B. The tension factor for the tap (2 - 1/0 AAAC is 4.0. On the graph, start at the bottom left tension factor scale at 4.0 go to the right to the line marked P = 50 (deadend). Then move straight down to the bottom which reads approximately 4.8 thousand pounds. Since the horizontal pull on the pole of the tap is less than that of the main line, the guy for the tap may be omitted.

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH		
DATE	8/24/01		

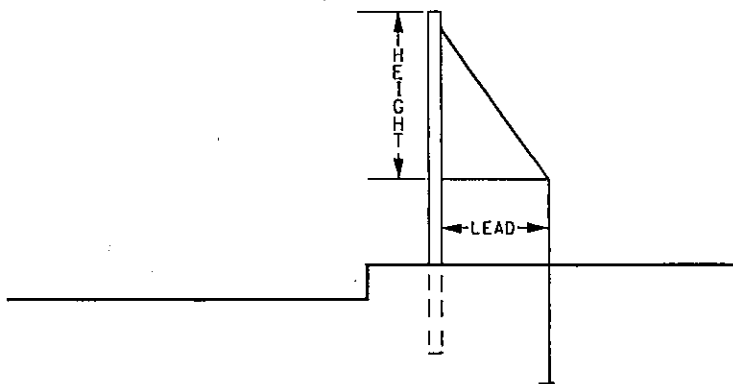
DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	GRC
	7/7/95

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





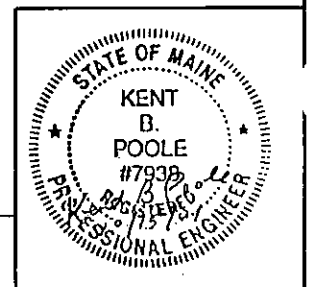
LEAD/HEIGHT: The slope or relation of the lead to the height of a guy has a great effect on the size of guy required and to much emphasis cannot be placed upon the desirability of installing a guy with as much lead as is possible. No guy shall ordinarily be installed with a lead of less than 1/3 the height of the guy attachment on the pole.



DESIGNED	CS
DRAWN	REC
DATE	10/04/01

DESIGNED	REORAWN
DRAWN	GRC
DATE	11/23/94

BE REVISED ON THE
CADD SYSTEM ONLY

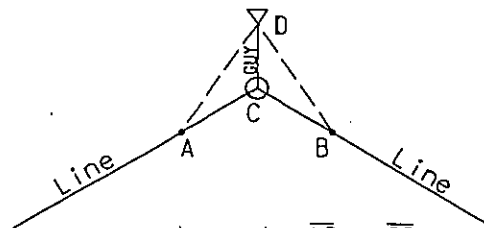
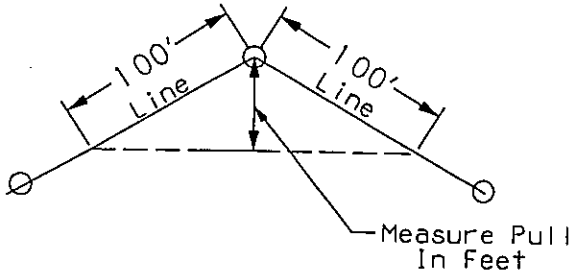


ANGULAR PULL

Double deadend corners are to be used on all corners over 50 feet pull, and may be used on corners less than 50 feet pull if adequate lead cannot be obtained to install a guy splitting the angle.

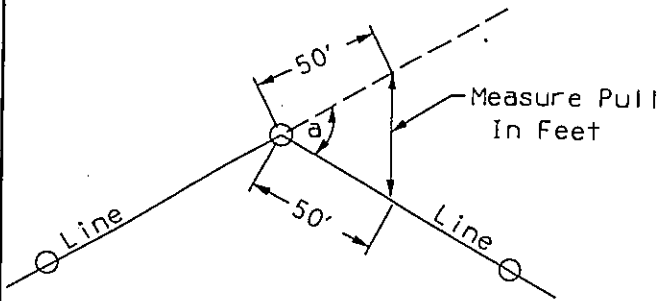
For angles of 50 feet or less pull, if possible, install the guy to bisect the angle. The sketches indicate how to measure pull and to bisect the angle using a tape measure.

DESIGNED	CS	REVISOR	REVISOR
DRAWN	CMH	DATE	10/16/01



Layout $\overline{AC} = \overline{CB}$
Then Layout $\overline{AD} = \overline{BD}$

METHOD OF DETERMINING GUYING DIRECTION WITH TAPE



METHODS OF DETERMINING PULL BY TAPE

Relationship between pull in feet and Angle "a"; the angle the line deviates from being straight.

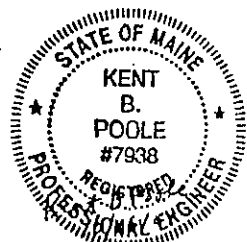
(For use when instrument is used)

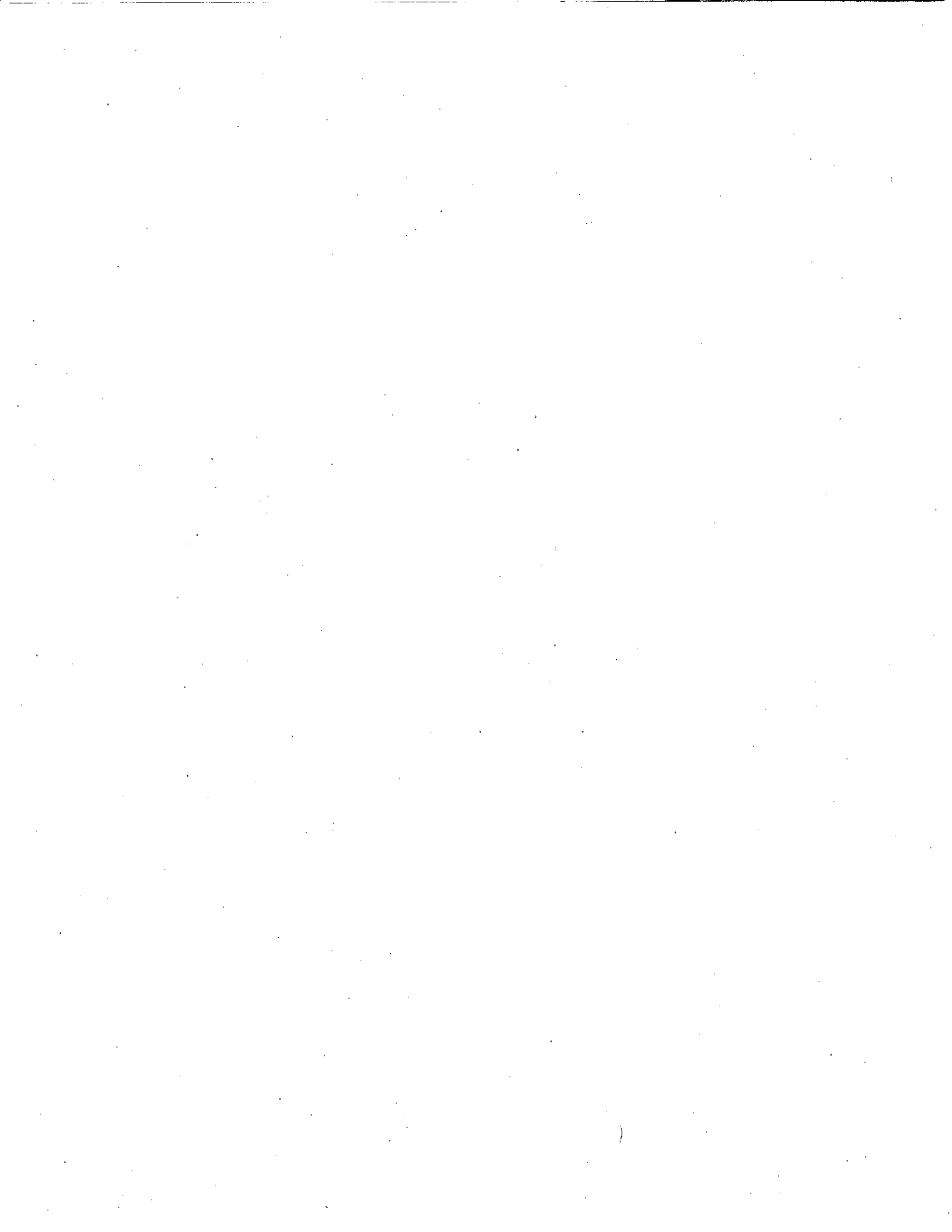
Pull in Feet	Angle "a" in Degrees (Approx.)
5 Ft.	5 Deg.
10	11
15	17
20	23
25	29
30	35
35	41
40	47
45	53
50	60

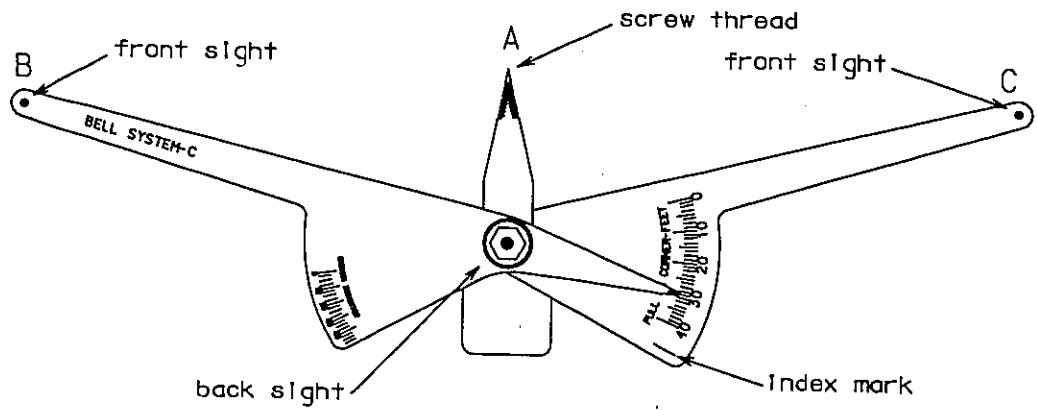
It will be noted from above table, that for small values of pull in feet, the value of Angle "a" is approx. equal numerically to the pull in feet.

DESIGNED	GRG	ORIGINAL
DRAWN	DATE	REDRAWN
DATE	7/10/95	

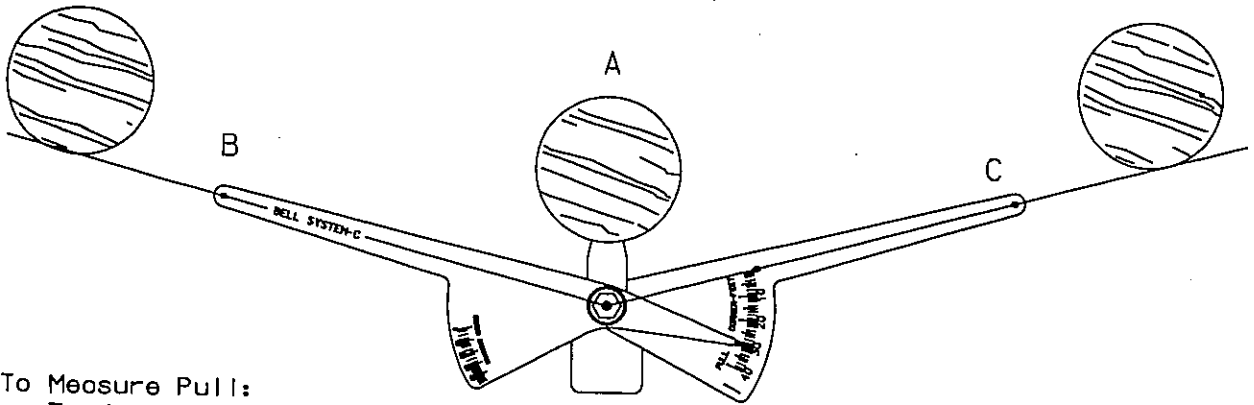
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





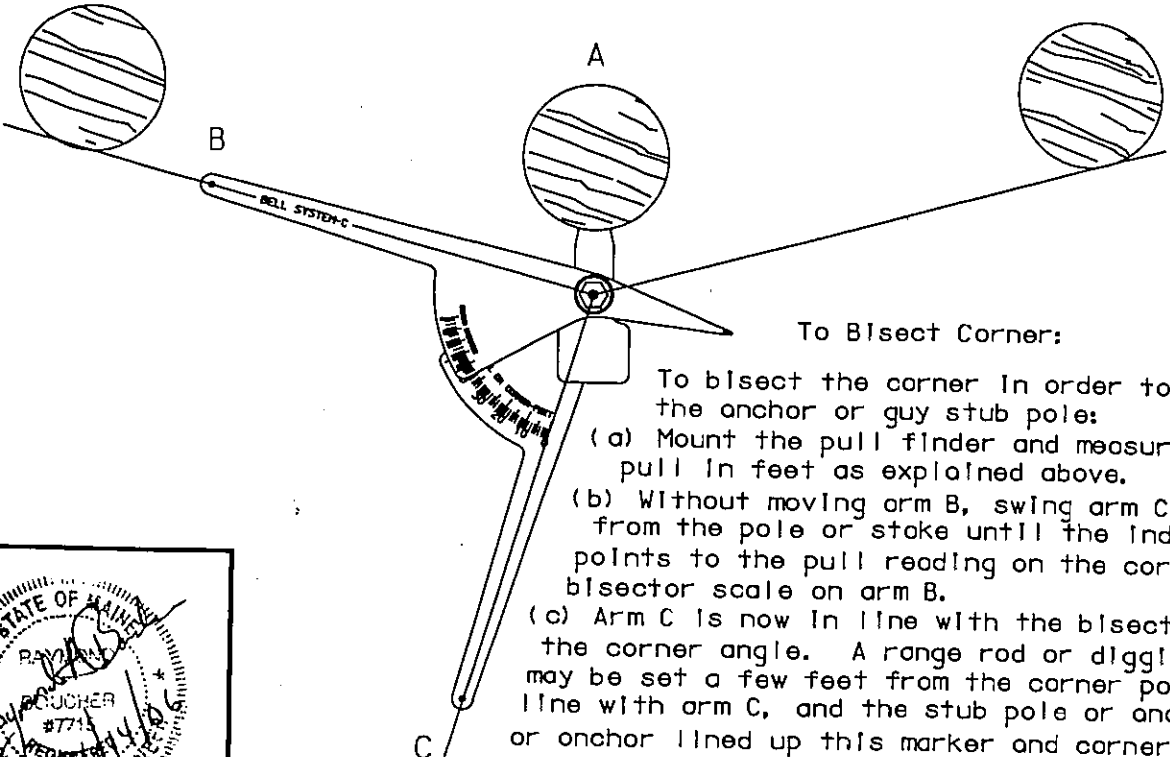


PULL FINDER



To Measure Pull:

To determine the pull at a corner by use of the pull finder, screw the short arm A into side of pole to be anchored or into a grade stake as shown. Adjust arm C so that it is lined up with the back sight and the next pole. In the same way, line up arm B. Check arm C to be sure it has not moved. The pointer on arm B now indicates on the scale on the corner the pull in feet on the corner.



To Bisect Corner:

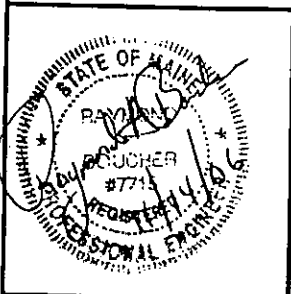
- To bisect the corner in order to locate the anchor or guy stub pole:
- Mount the pull finder and measure the pull in feet as explained above.
 - Without moving arm B, swing arm C away from the pole or stake until the index mark points to the pull reading on the corner bisector scale on arm B.
 - Arm C is now in line with the bisector of the corner angle. A range rod or digging bar may be set a few feet from the corner pole in line with arm C, and the stub pole or anchor or anchor lined up this marker and corner pole.

DESIGNED	REVISOR	REVISION	DATE
DRAWN	REVISOR	REVISION	DATE
DATE	REVISOR	REVISION	DATE
08/11/98	CMH	8/24/DI	10/18/06



DESIGNED	DATE
DRAWN	12/01/75
DATE	RCE

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

Page 309-12A

GUY GROUNDED DOWN

Macro: C6MPGGD

<i>CU Number</i>	<i>Quantity - CU/Mat</i>		<i>Description</i>	<i>Material ID</i>
C6PDA	1		ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1		GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX

MACRO
C6MPGGD

DESCRIPTION
GUY GROUNDED DOWN

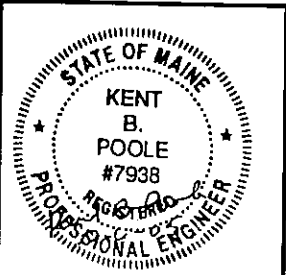
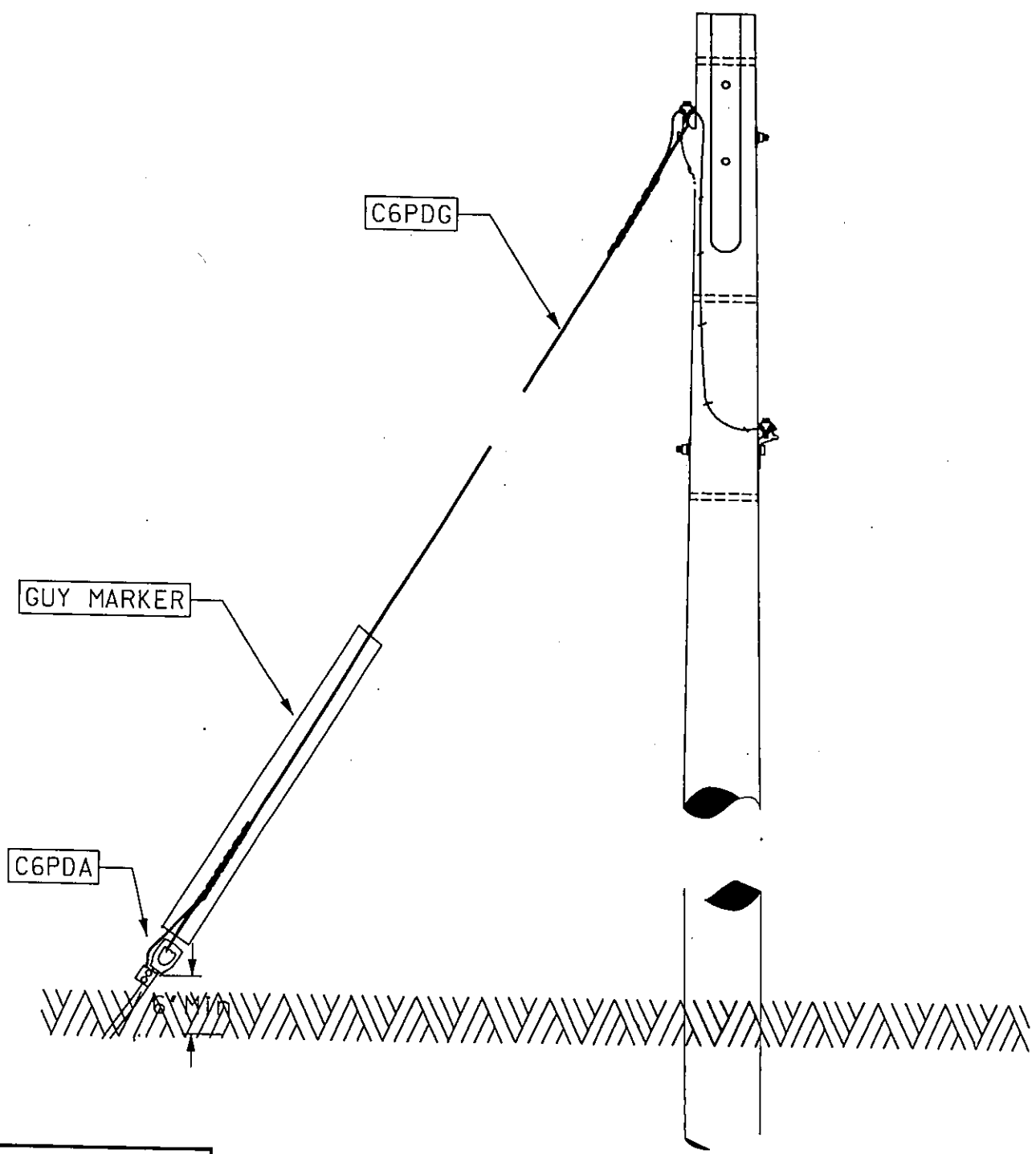
PAGE
309-12B

DESIGNED	REVIS	REVIS	REVIS
DRAWN	C5	CS	CS
DATE	08/24/01	02/04/03	12/02/05



ORIGINAL	REVIS	REVIS
REDRAWN	GRC	
DATE	8/31/93	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDGSLFA36	1	GUY STRAIN LINK ASSEMBLY, F/G 36IN	
		1 INS STRAIN 21000LBX36IN	6000251620
		1 PLATE GUY ATT FG INS	6000251800
		1 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 B LAG GALV FET 1/2 X 4	6000272540
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		1 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX

NOTE:

Where adequate clearance cannot be maintained between energized conductor and guy wire on the same structure, a fiberglass strain link shall be used.

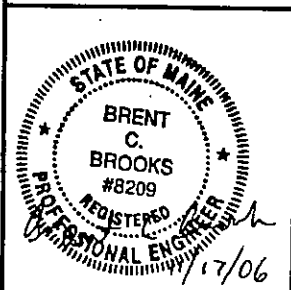
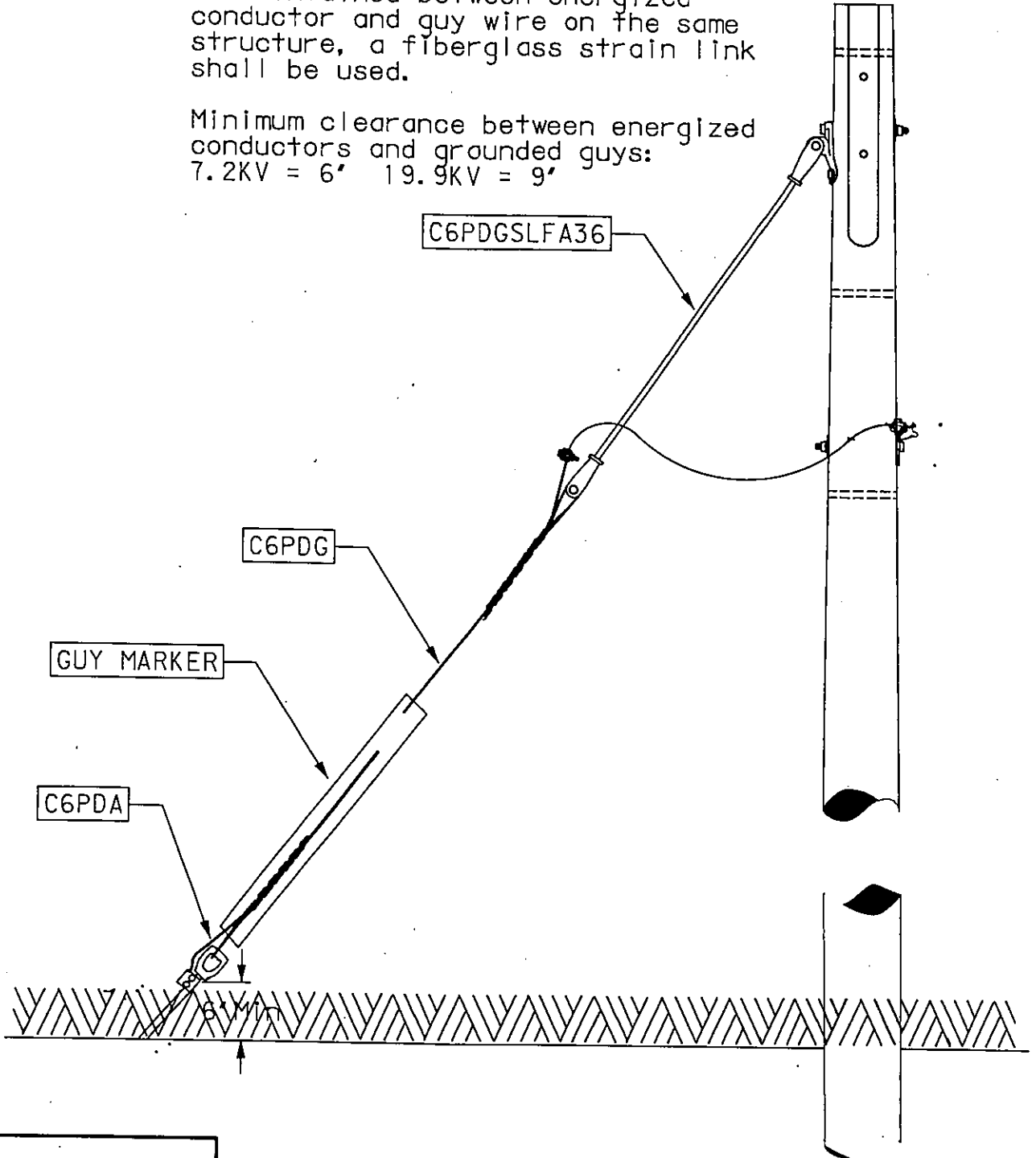
Minimum clearance between energized conductors and grounded guys:
7.2KV = 6' 19.9KV = 9'

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/24/01	D2/01/06	



DESIGNED	ORIGINAL
DRAWN	GRC
DATE	8/30/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

Page 309-14A

GUY GROUNDED AERIAL

Macro: C6MPGGA

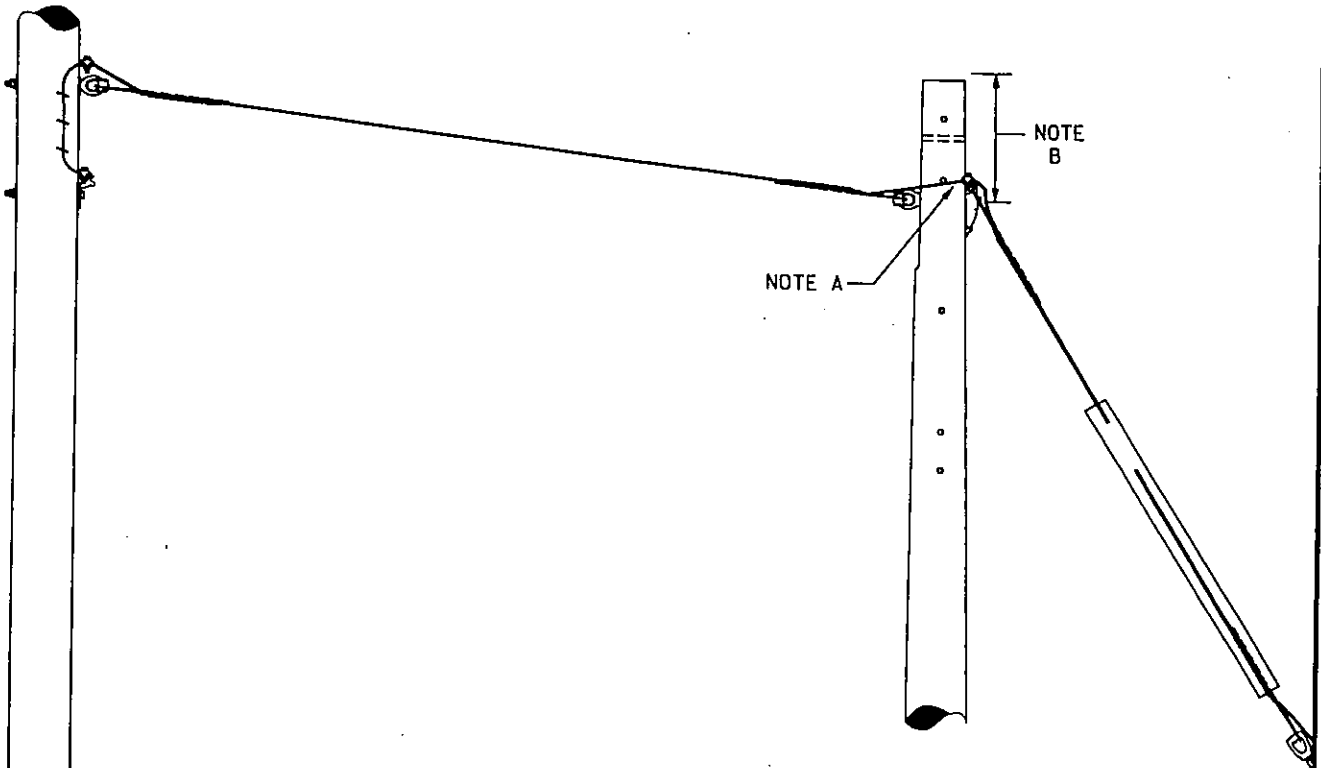
<i>CU Number</i>	<i>Quantity - CU/Mat</i>		<i>Description</i>	<i>Material ID</i>
C6PD	1		POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1		ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1		GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDGAERIAL	1		AERIAL GUY	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/24/01	12/20/02	12/02/05



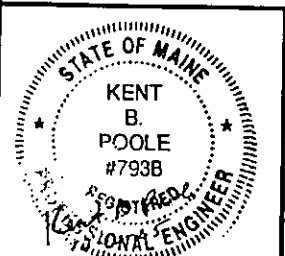
DESIGNED	ORIGINAL
DRAWN	REDRAW
DATE	GRG
	11/12/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTES

- A: Leave enough guy wire to bond down guy.
- B: Put aerial guy as low as possible on stub pole and still allow telephone or other guys to maintain required clearances.



Distribution Construction Standards - CMP Co.

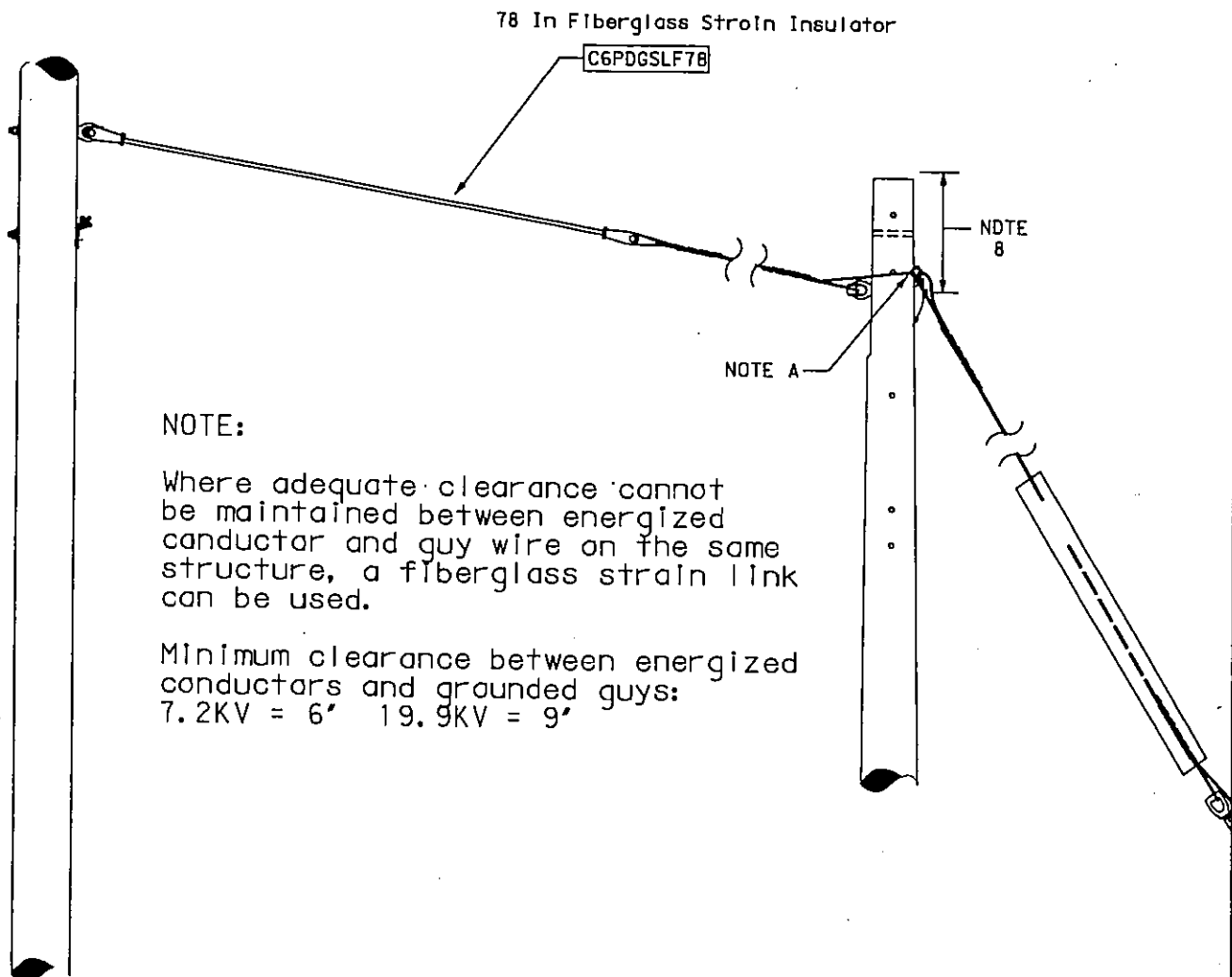
<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDGAERIAL	1	AERIAL GUY	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDGSLF78	1	GUY STRAIN LINK, F/G 78IN (LINK ONLY)	
		1 INS GY STN 30K LB 78IN	6000251600

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/24/01	06/16/05	12/06/05



ORIGINAL	JEC	GRG
DESIGNED		
DRAWN		
DATE	7/5/95	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



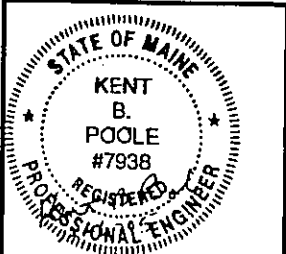
NOTE:

Where adequate clearance cannot be maintained between energized conductor and guy wire on the same structure, a fiberglass strain link can be used.

Minimum clearance between energized conductors and grounded guys:
7.2KV = 6' 19.9KV = 9'

NOTES

- A: Leave enough guy wire to bond down guy.
- B: Put aerial guy as low as possible on stub pole and still allow telephone or other guys to maintain required clearances.



Distribution Construction Standards - CMP Co.

Page 309-16A

GUY GROUNDED SIDEWALK ASSEMBLY

Macro: C6MPGSWG

CU Number	Quantity - CU/Mat	Description	Material ID
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDGSW	1	SDWLK GUY, STANDOFF ASSEMBLY	
		1 BRACE SIDWALK CL DOUBLE	6000250670
		1 BRACE SIDWALK POLE PLT	6000250680
		10 PIPE STEEL GALV 2 IN	6000251740
		1 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 B LAG GALV FET 1/2 X 4	6000272540
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		1 WSHFLT GALVSQ2 1/4X3/16	6000274810

MACRO
C6MPGSWG

DESCRIPTION
GUY GROUNDED SIDEWALK ASSEMBLY

PAGE
309-16B

DESIGNED	REVISOR	REVISION	DATE
DRWN	JEC	CS	2/9/94
DATE	GRG	REC	02/04/03
		REC	2/06/05

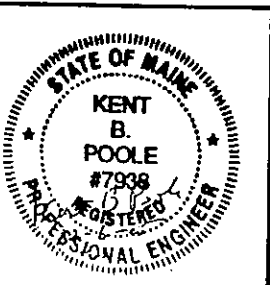
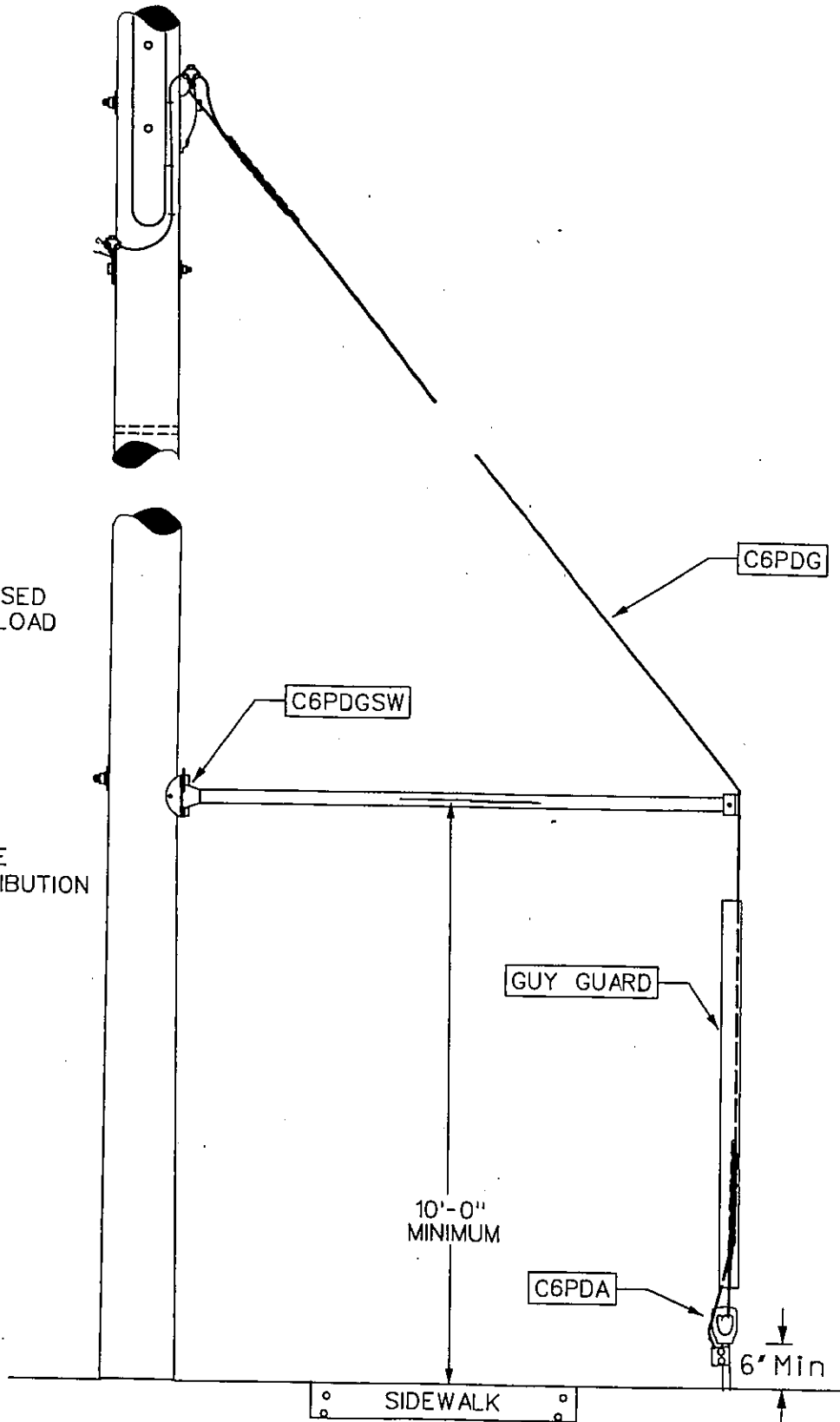


DESIGNED	REVISOR	REVISION	DATE
DRWN	GRG	CS	8/27/93
DATE			

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

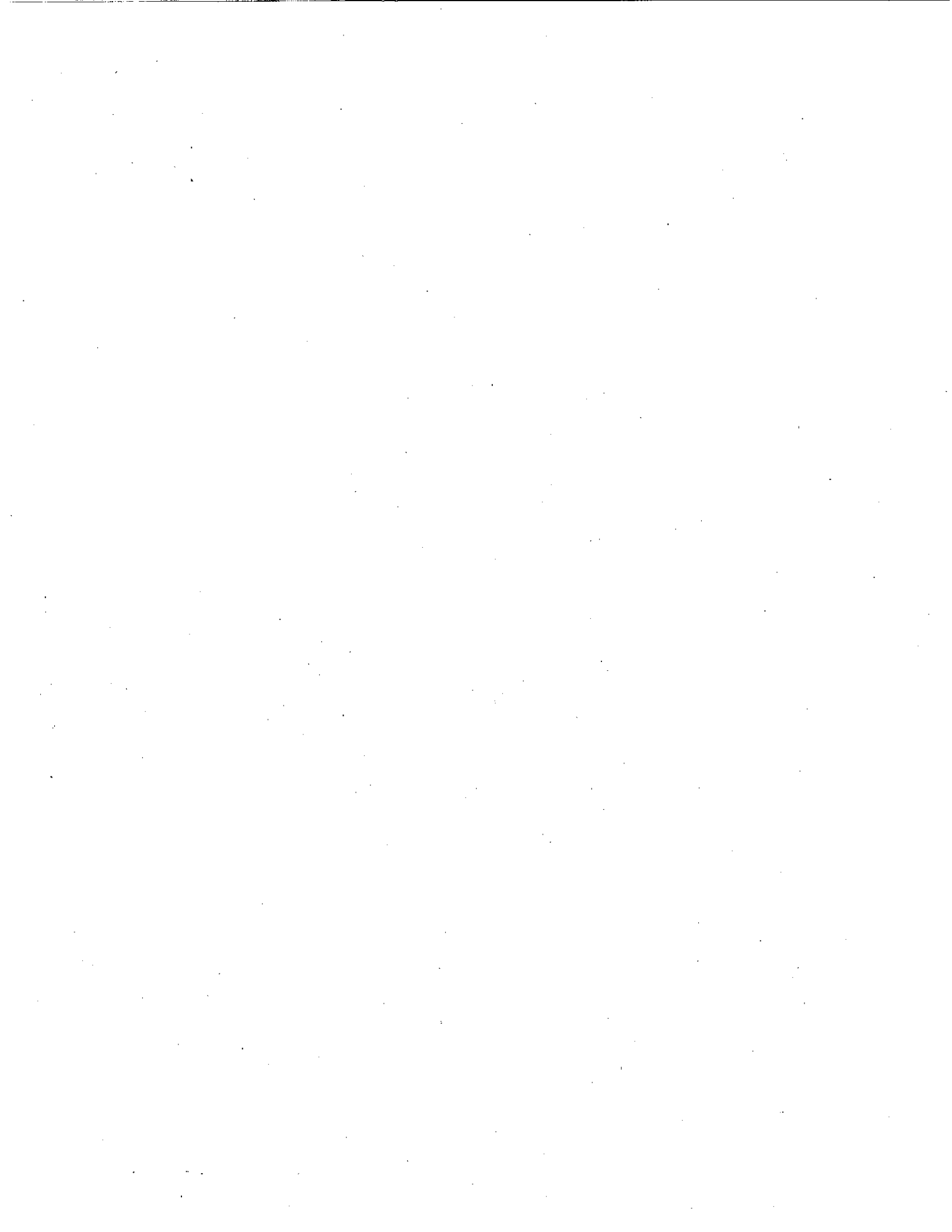
POLE SHALL BE CLASSED
TO SUPPORT BRACE LOAD

POLE CLASS SHALL BE
DETERMINED BY DISTRIBUTION
FIELD ENGINEER



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

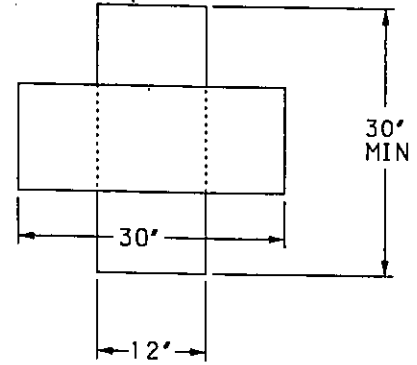


NO.	REVISION	DATE	BY	CHK.
1	ADD HIGH & STOCK CODE			
1	ADDED NOTE B & ADDED TABLE	04/27/09	REG	

NOTE 2

NOTE 4

C6POPBCDNN
6000274230



PUSH BRACE POLE SHALL BE SET
ACCORDING TO POLE DEPTH CHART
ON PAGE 307-13

Lead

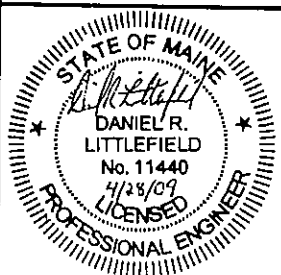


Pole	Push Brace	Ht. from top of pole Lead (ft.)	
		30'	48'
35	40	21	23
40	45	22	24
45	50	24	26
50	55	25	27
55	60	26	28
60	65	27	30
65	70	28	31

NOTE 4

ORIGINAL	DESIGNED	DRAWN	DATE
GRG			11/12/93

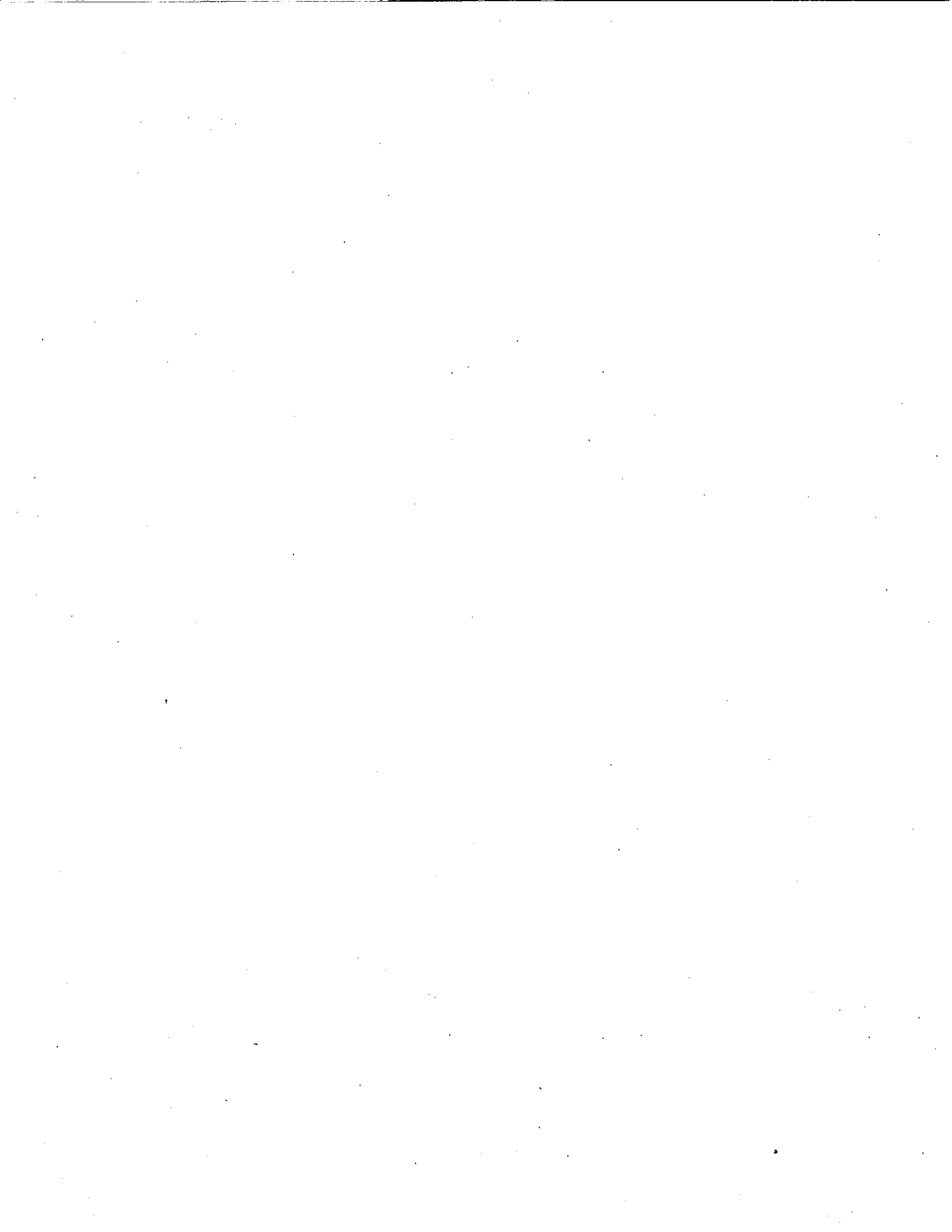
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTES:

- DO NOT USE A PUSH BRACE unless there is no way to install a down guy or stub pole and guy.
- Attach push brace as high as possible on pole.
- To determine length of push brace, an actual measurement is recommended.
- Made of 2' plank, use only if needed due to soil conditions.
- A class 5 pole for a push brace is acceptable in all cases.









MACRO	DESCRIPTION GENERAL POLE TOP CONSTRUCTION	PAGE 310
-------	---	--------------------

GENERAL
POLE TOP CONSTRUCTION

1. Standard construction to be based on 2000lb. Maximum (worst case) line tension
2. Tap lines exceeding two poles shall be protected with cut outs
3. Neutral position shall be determined, based on conductor sags. Positions shown in details are minimum for new construction.
4. Poles shown in details are typical, see section 307 to determine pole class. Height will be based on apparatus on pole.
5. Guy lead (distance between pole and anchor) shall be determined based on requirements of section 309 GUYING.
6. A minimum of 3' washers shall be used to back all guys.
7. On all poles using pole top pins, the neutral is to be installed on the roadside of the pole, unless (on an existing line) the neutral is on the field side of the adjacent poles in both directions, in which case the neutral is to be placed on the field side to avoid unnecessary crisscrossing of the neutral and phase wire.

Conversions

When converting 7200/12470 to 20/34.5 kv the following should be noted:

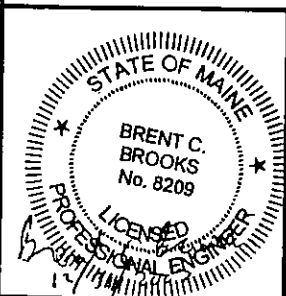
1. All hardware on the pole shall be retightened.
2. The neutral must be lowered to the position shown.
3. Steel crossarm braces are to be removed and replaced with wood crossarm braces.
4. Steel crossarm pins shall extend a minimum of 6' above crossarm. Short pins shall be replaced.

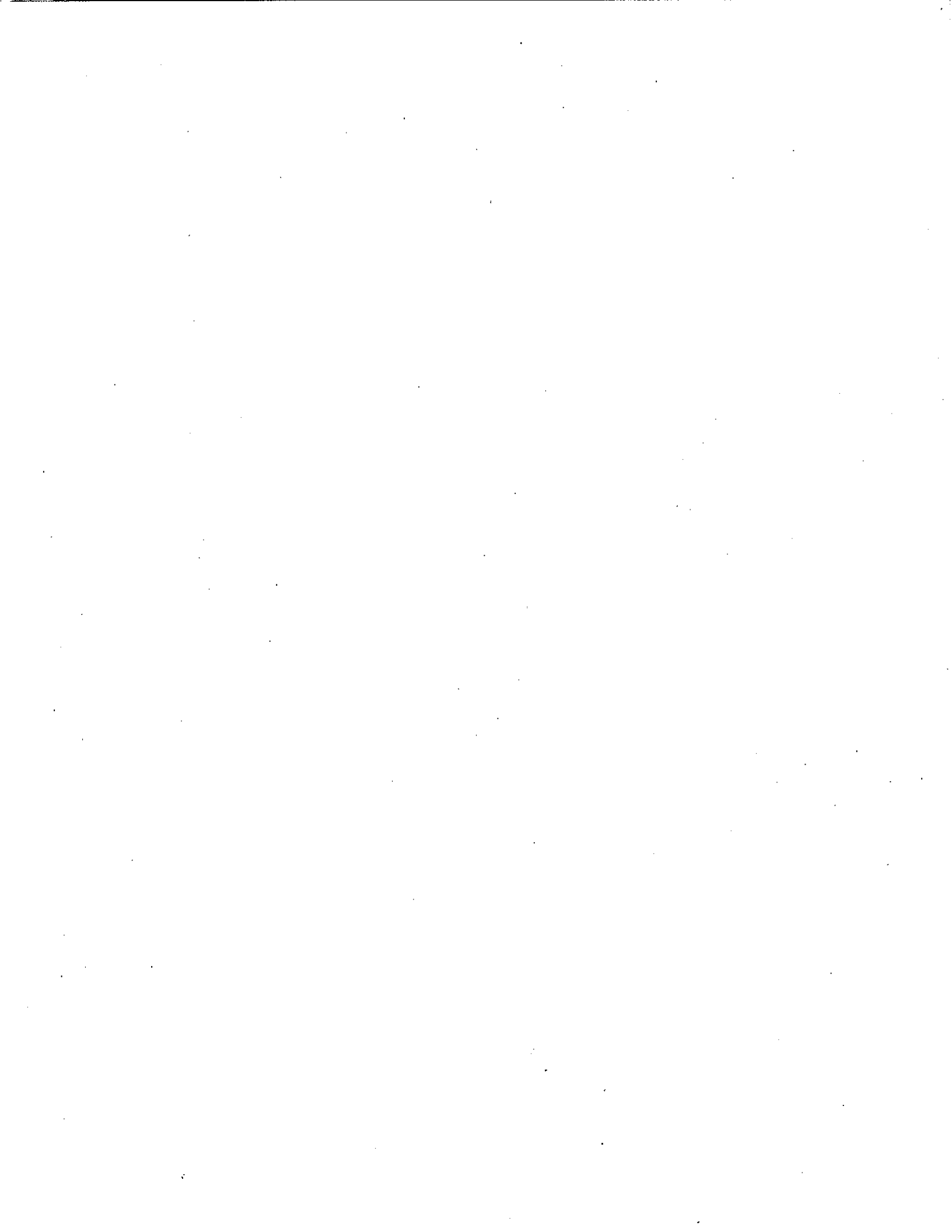
NO.	REVISION	DATE	CK.
1	Added note 6 to require 3' washers	12/28/07	



ORIGINAL	DESIGNED	DATE
REDRAWN	DRAWN	6/29/94
GRC		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





All lines crossing railroads and limited access highways must meet the following requirements. In addition, any line crossing a railroad outside the limits of a public highway requires a permit from the railroad involved.

1. Class of pole: To determine the minimum class of pole required for the poles at either end of the crossing span, check A, B and C. The largest class pole required by A, B and C shall be used.
 - A. Graph on page 307-7. Use the average length of the crossing span and the adjacent span for span length to determine pole class from this graph.
 - B. Chart on page 307-9. The minimum class of pole required due to guying on the pole may be determined directly from the chart without adjustment. (See item #2 for determination of guy wire size and lead length.)
 - C. Chart on page 307-10. If transformers or other equipment are mounted on crossing poles, use double the actual weight of equipment with this chart to determine the minimum class pole required.
2. Guying: To determine the required guying on a crossing pole, increase the line tension factor by 1/3 before using the graph on page 309-6. On corners up to 37 feet of pull, the guying charts may be used by increasing the pull by one third, i.e., $37 + (1/3 \times 37) = 49 \frac{1}{3} = (50)$.
3. Crossarms: Double crossarms shall be used whenever crossarms are used on railroad and limited access highway crossings.
4. Conductor: No splices are to be used in railroad and limited access highway crossing spans or adjacent spans. No tops or hot line clamps are to be installed on the crossing span. If the crossing span is deadended, the conductors shall be run through the deadend clamps far enough to provide a connection point.

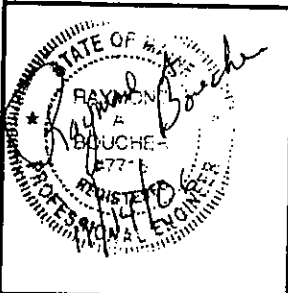
NOTE: Splices may be used to make emergency repairs in crossing and adjacent spans, and may be left in place if the conductor is in good condition.

DESIGNED	REVISOR	REVISION
DRAWN	CS	CS
DATE	LAW	REC
	08/31/01	1D/16/08



DESIGNED	ORIGINAL
DRAWN	GRG
DATE	JEC
	5/28/92

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

Page 311-1A

1 PH POLE TOP STRUCTURE

Macro: C6MC1PT

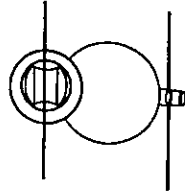
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	1	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 24X1 3/8INCH	6000274170
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX

MACRO
C6MC1PT

DESCRIPTION
1 PH POLE TOP STRUCTURE

PAGE
311-1B

UP TO 6FT CORNER AT 2000* LINE TENSION



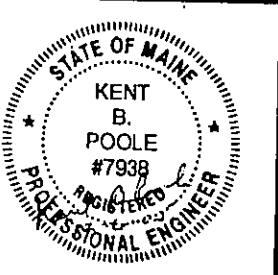
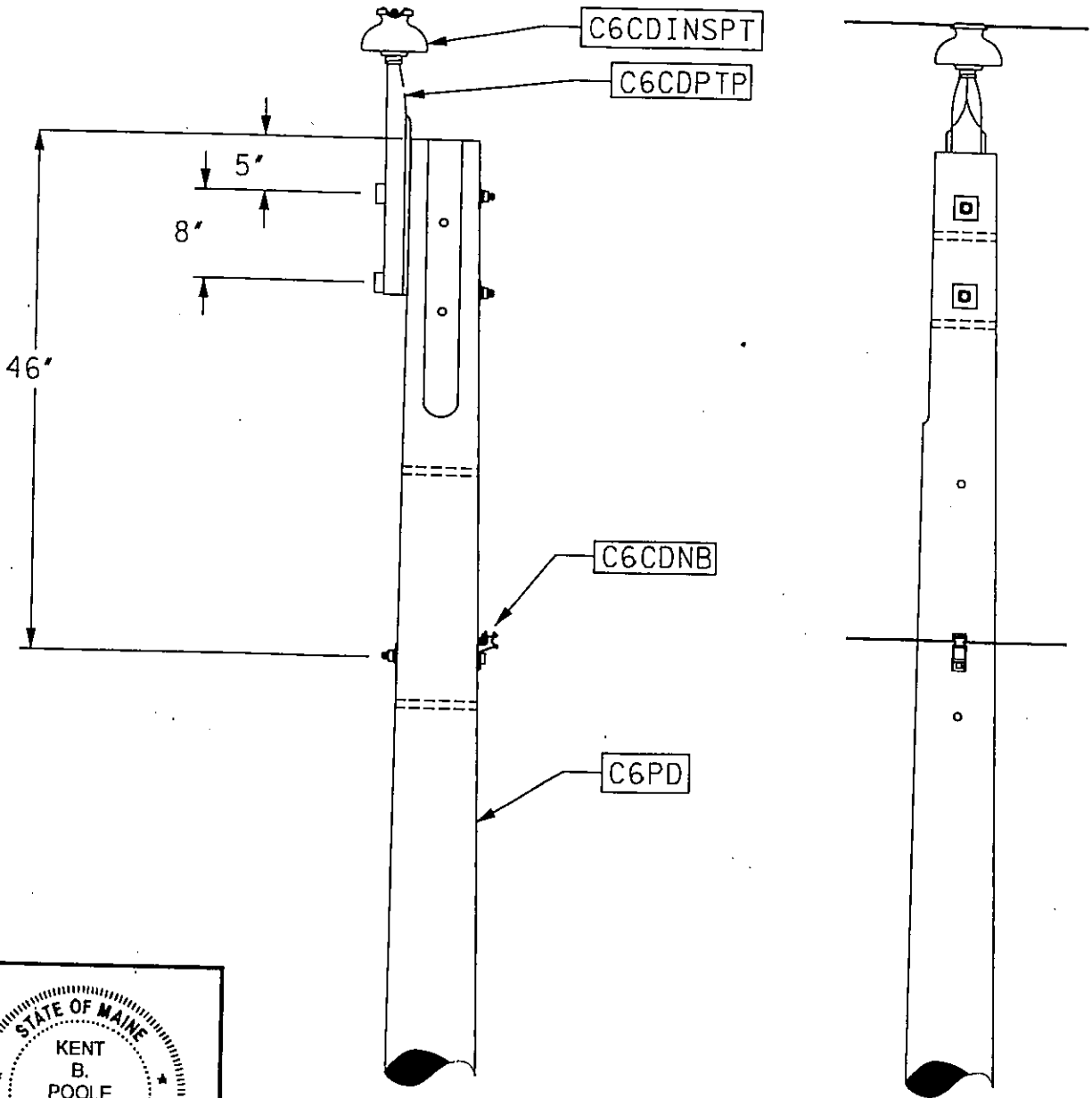
NOTE:
Pole top to be located
on field side of pole.

DESIGNED	REVISOR	REVISION	DATE
CS	CS		
REVISION	REVISOR	REVISION	DATE
REC	REC		
08/23/01	12/02/05		



DESIGNED	DATE
GRC	12/9/92
DRAWN	
DATE	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 311-2A

1 PH POLE TOP EXTENSION 30 IN

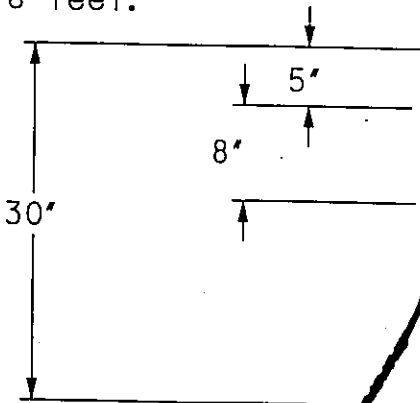
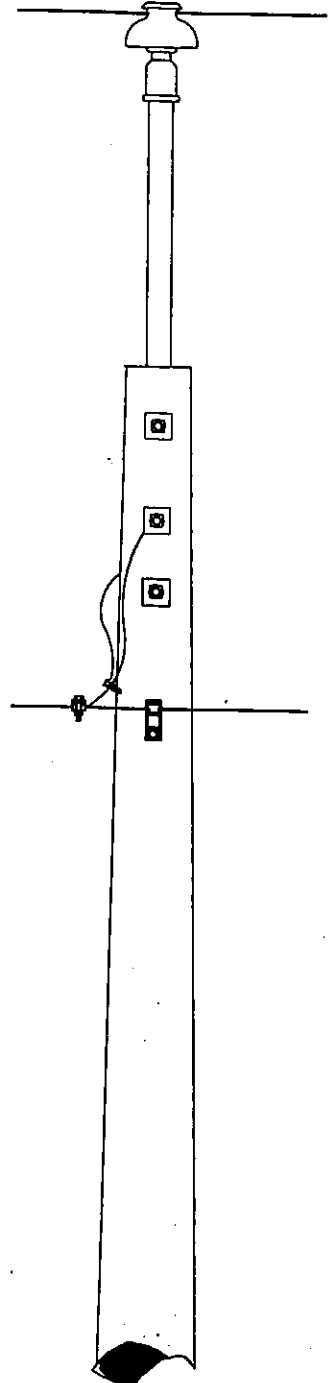
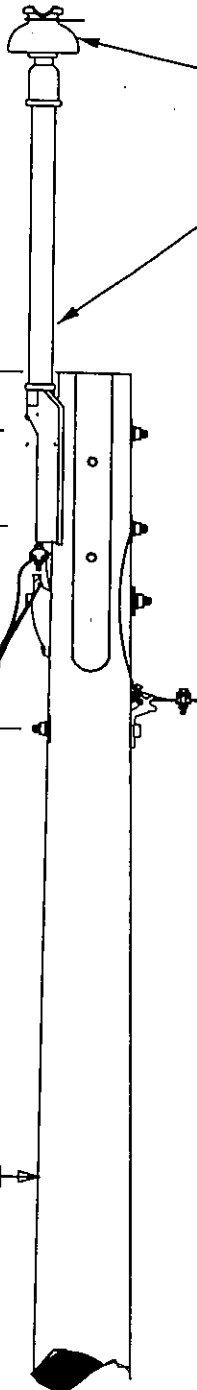
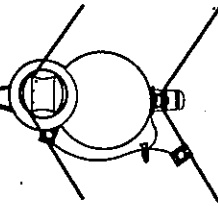
Macro: C6MC1PTE30

<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6CDINSPT	1	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDPTP30FG	1	POLE TOP PIN 30 INCH FIBERGLASS	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 30 IN FG	6000274190
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX

30' FIBERGLASS POLETOP HAS MAXIMUM OF 10 FT. CORNER AT 2000* LINE TENSION

NOTES:

1. 30 inch fiberglass pole top to be used to avoid pole replacement.
2. A side tie shall be used on any corner with a 3' or larger pull.
3. Guy not needed if corner less than 6 feet.



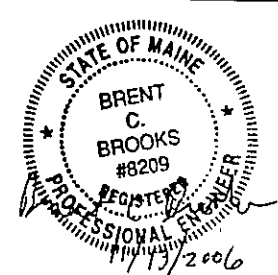
Refer to Guying Section 309

DESIGNED	REVISOR	REVISION	DATE
ORAWN	CS	REC	06/19/06
DATE	09/07/01	REC	

DESIGNED	ORIGINAL	DATE
DRAWN	GRG	12/10/92



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

Page 311-3A

1 PH SINGLE XARM STRUCTURE

Macro: C6MC1SX

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	1	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIPIN	1	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6PO	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDXA8	1	XARM, 6PINB, 8FT	
		XARM 6PIN 8	6000740510
C6PDXASH	1	XARM, SINGLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

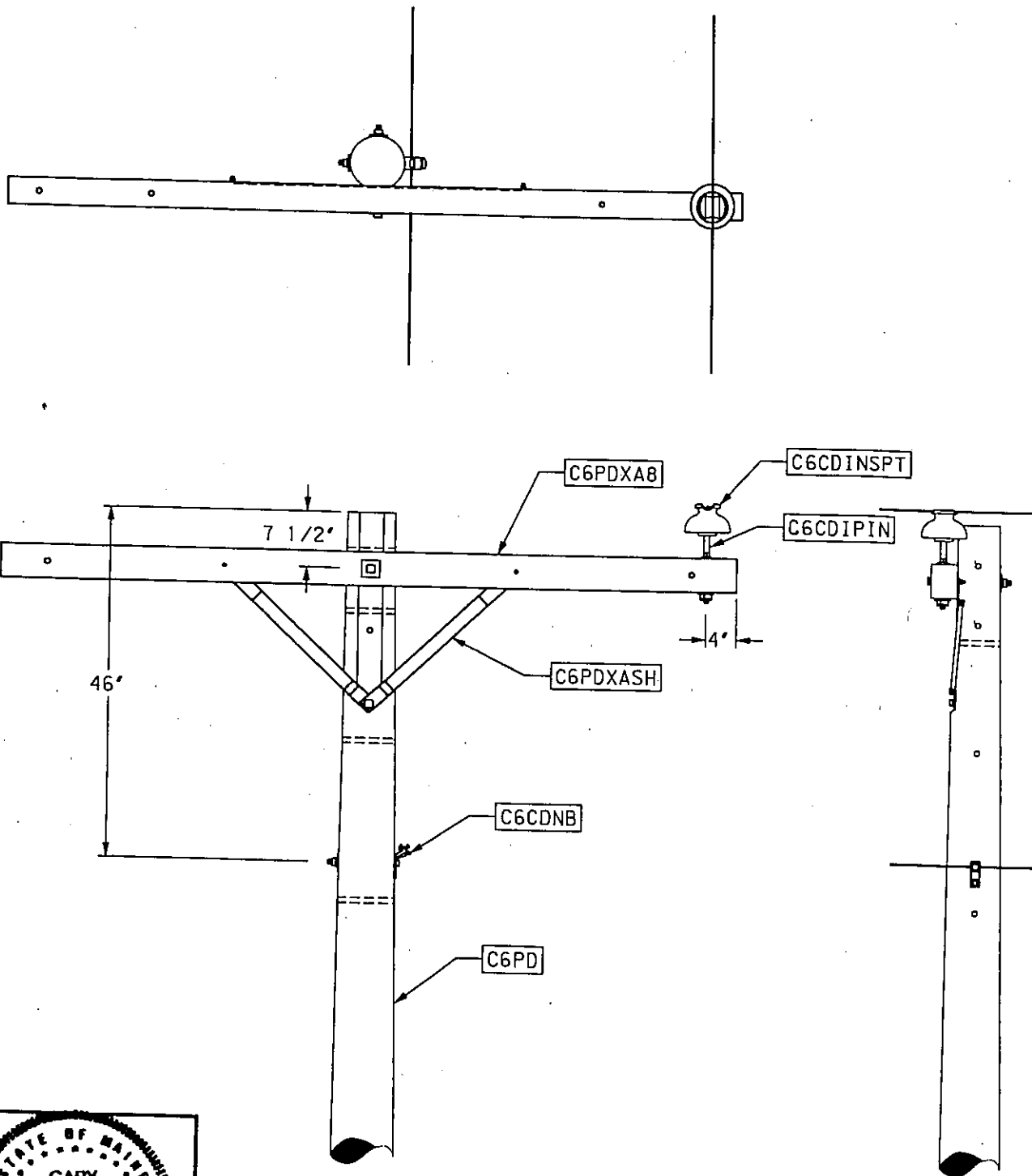
MACRO
C6MC1 SX

DESCRIPTION
1 PH SINGLE XARM STRUCTURE

PAGE
311-3B

0-6 FT. CORNER

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	12/02/05	



DESIGNED	ORIGINAL
DRAWN	GRC
DATE	4/17/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

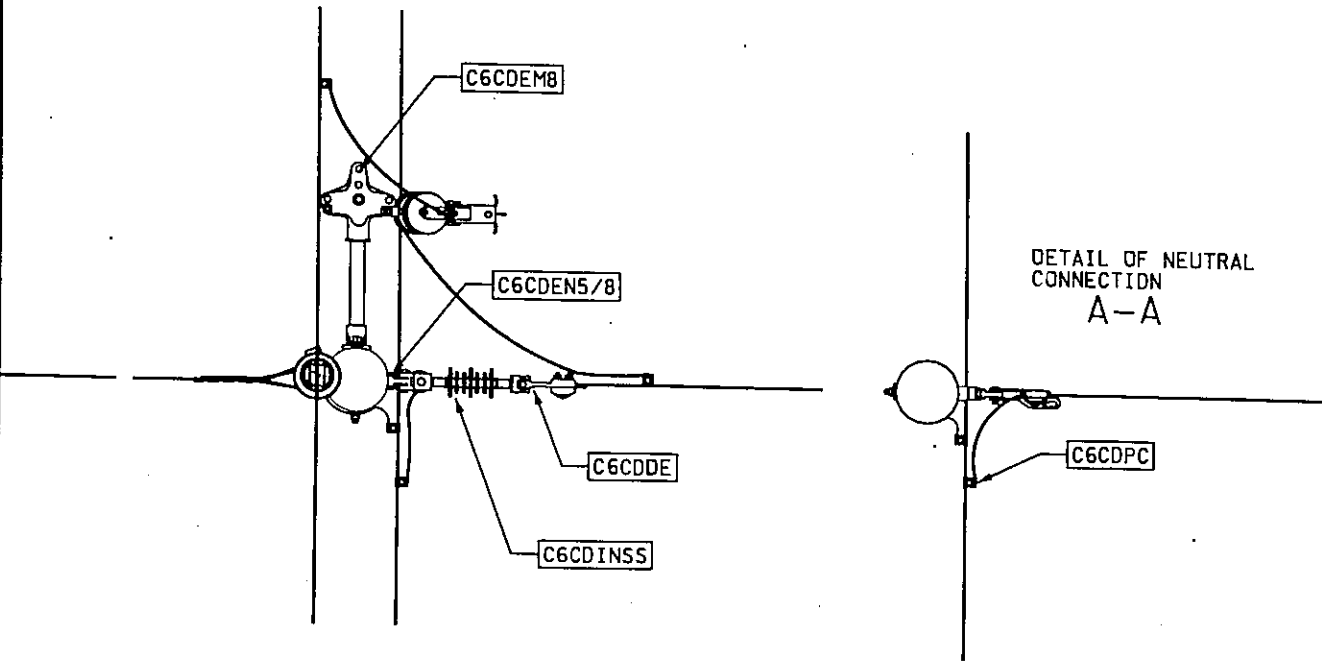
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	2	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1 DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
C6CDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	1	EYE NUT ROUND 5/8 INCH	
		1 NUT EYE ROUND 5/8 TAP	6000273430
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CQFCO	1	FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	1	SHACKLE 1/2IN W 5/8IN PIN	
		1 SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	1	INS DEADENO GENERIC (SELECT FROM CUCT)	
		1 INSULATORS	6000310XXX
C6CDPC	1	CONNECTOR,PRIMARY	
		1 CONNECTORS	600011XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX

MACRO
C6MC1 TFPT

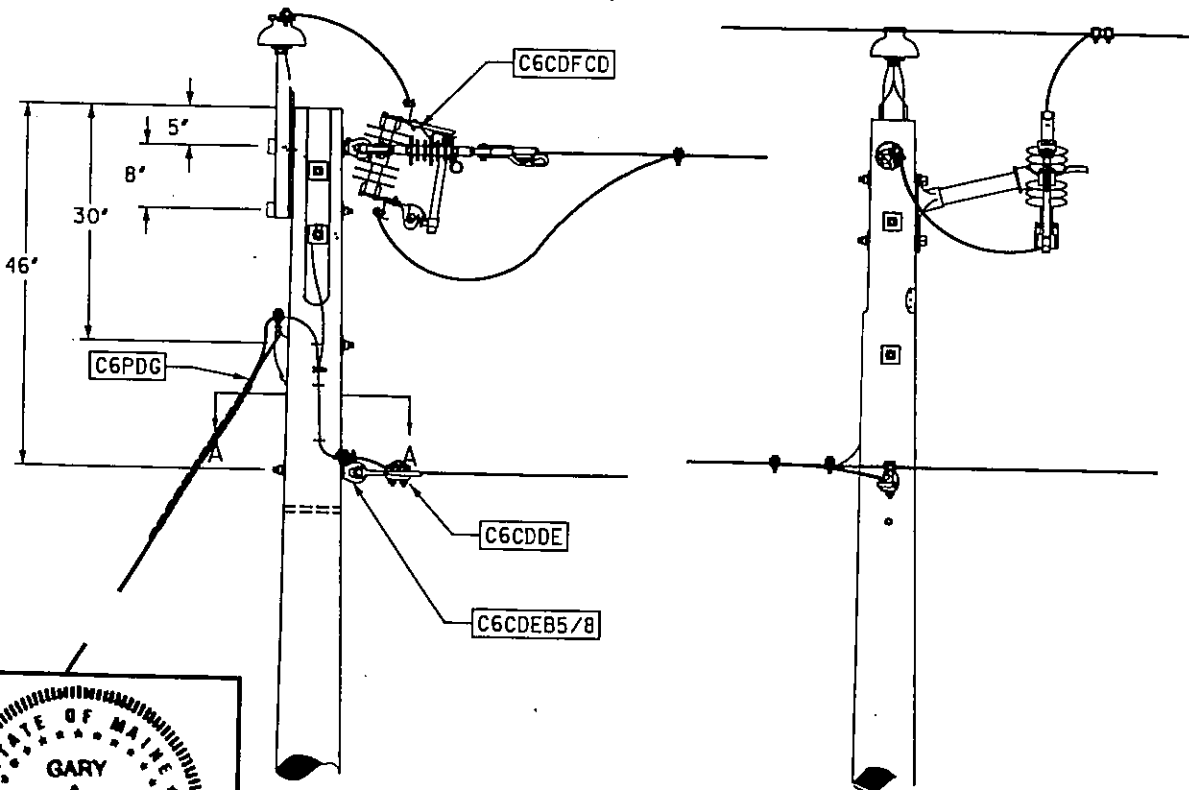
DESCRIPTION
1 PH TAP FROM POLE TOP STRUCTURE

PAGE
311-4B

DESIGNED	CS	REVIS	CS
DRAWN	REC	REC	REC
DATE	08/23/01	DI	12/08/05



DESIGNED	GRG
DRAWN	
DATE	4/1/93



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	4	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1 DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	2	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEMB	2	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	2	EYE NUT ROUND 5/8 INCH	
		1 NUT EYE ROUND 5/8 TAP	6000273430
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDFCO	2	FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	2	SHACKLE 1/2IN W 5/8IN PIN	
		1 SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	2	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1 INSULATORS	6000310XXX
C6CDPC	2	CONNECTOR, PRIMARY	
		1 CONNECTORS	600011XXXX

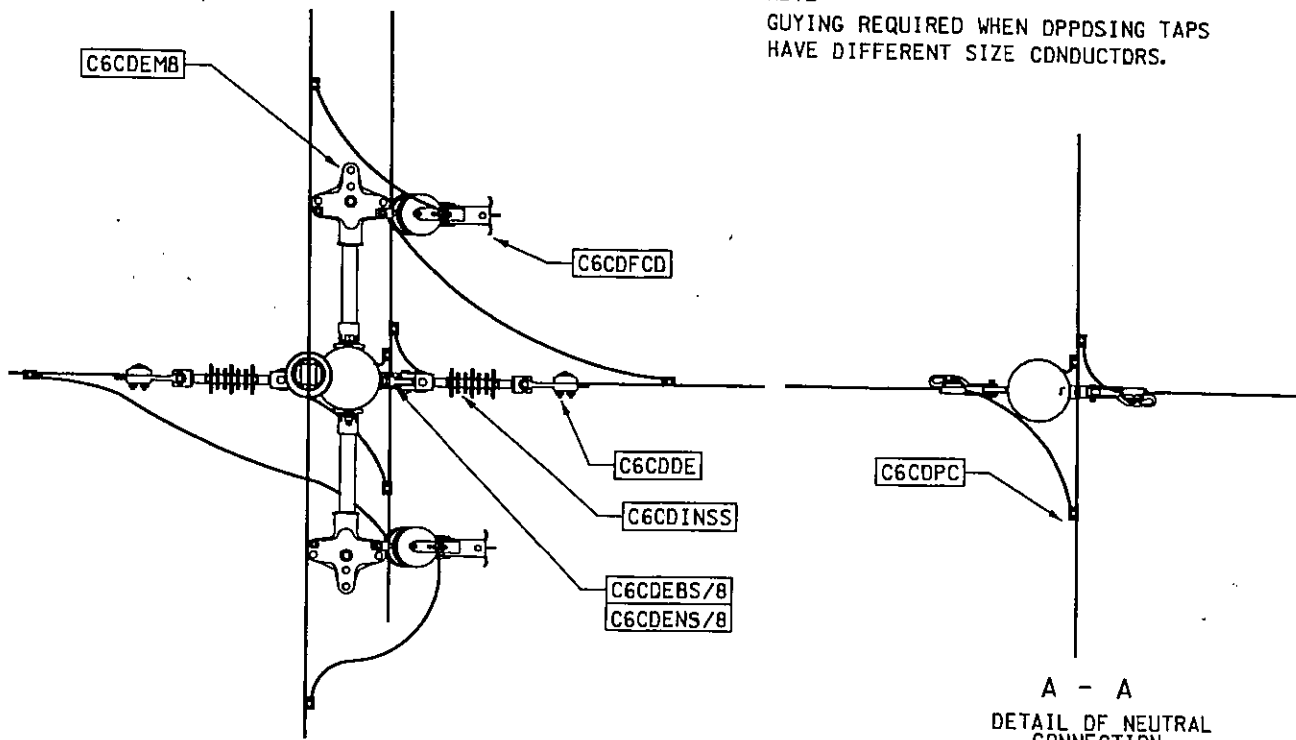
MACRO
C6MC1 TFPT2W

DESCRIPTION
1 PH TAP FROM POLE TOP STRUCTURE 2 WAY

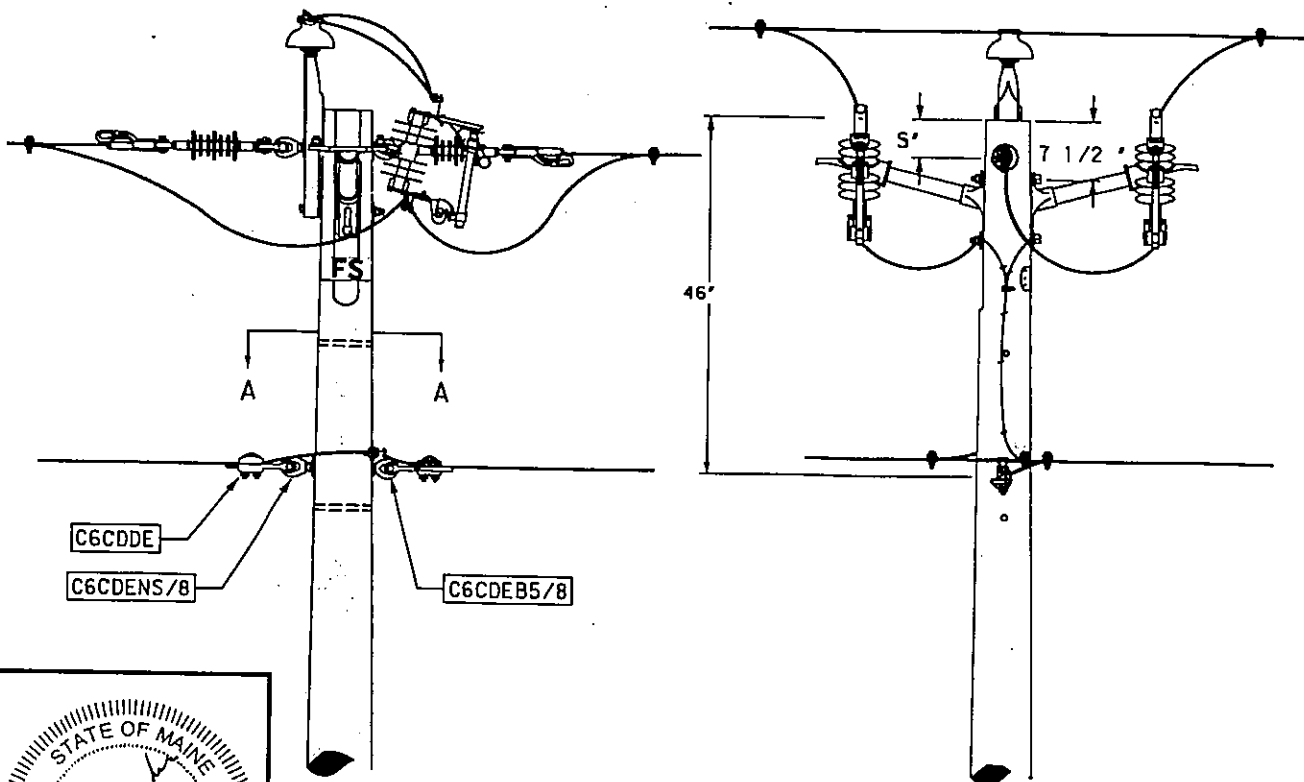
PAGE
311-5B

NOTE
GUYING REQUIRED WHEN OPPOSING TAPS
HAVE DIFFERENT SIZE CONDUCTORS.

NO.	REVISION	DATE	CHK.
1	Added border line one pole	7/27/93	RG

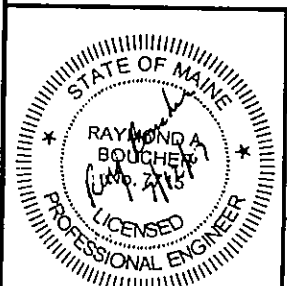


A - A
DETAIL OF NEUTRAL
CONNECTION



ORIGINAL	GRG
DESIGNED	GRG
DRAWN	
DATE	4/1/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	1	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 24X1 3/8INCH	6000274170
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		GUYS (SEE TABLE PAGE 309-6)	60002527XX

MACRO
C6MC1PTG

DESCRIPTION
1 PH POLE TOP STRUCTURE WITH GUY

PAGE
311-6B

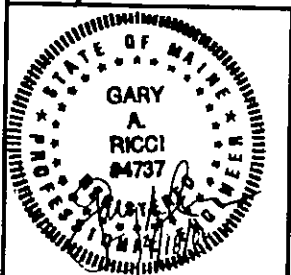
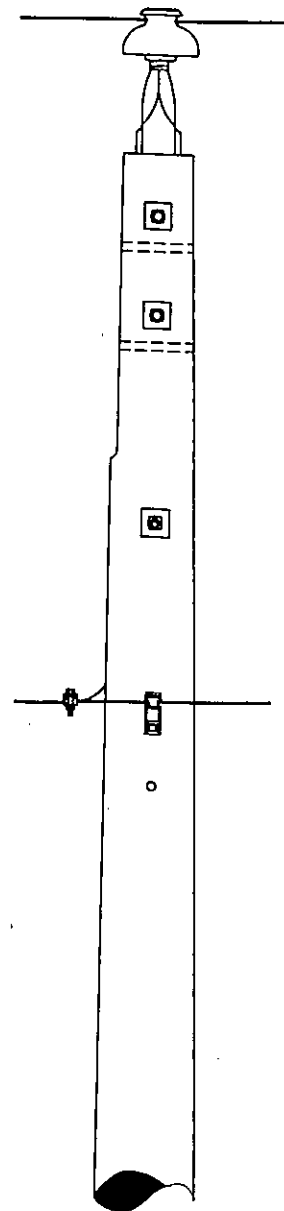
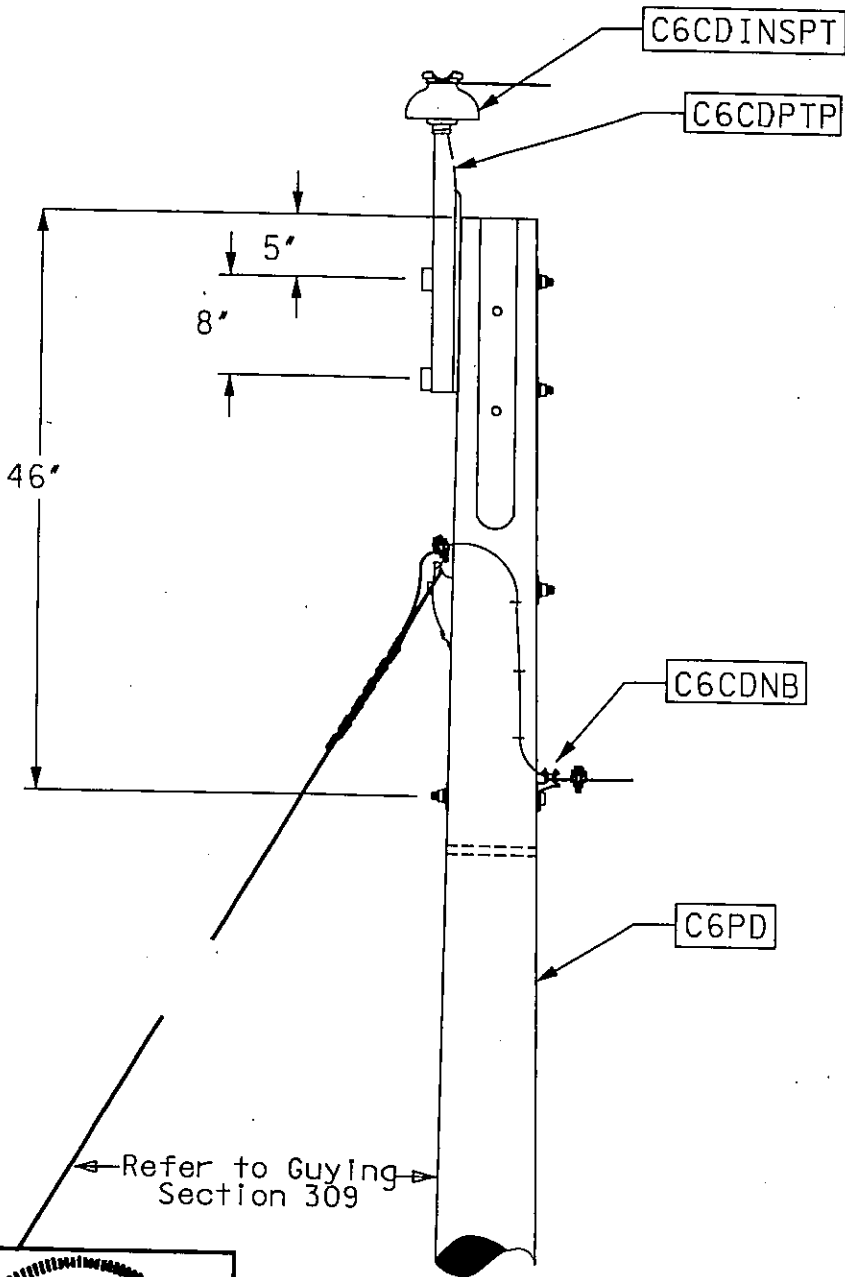
UP TO 25FT CORNER AT 2000* LINE TENSION
UP TO 16FT CORNER AT 3000* LINE TENSION

DESIGNED	CS	REVISED	REVISED
DRAWN	REC	REC	CS
DATE	08/23/01	11/2/08/05	



DESIGNED	CS	ORIGINAL
DRAWN	REC	
DATE	12/05/00	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

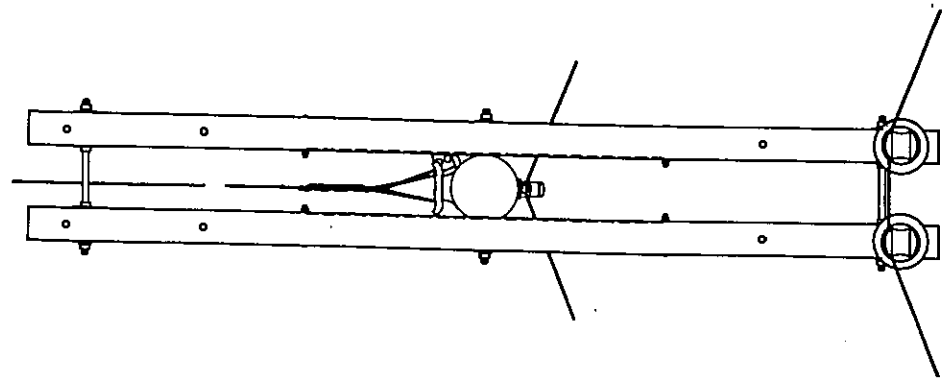
DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

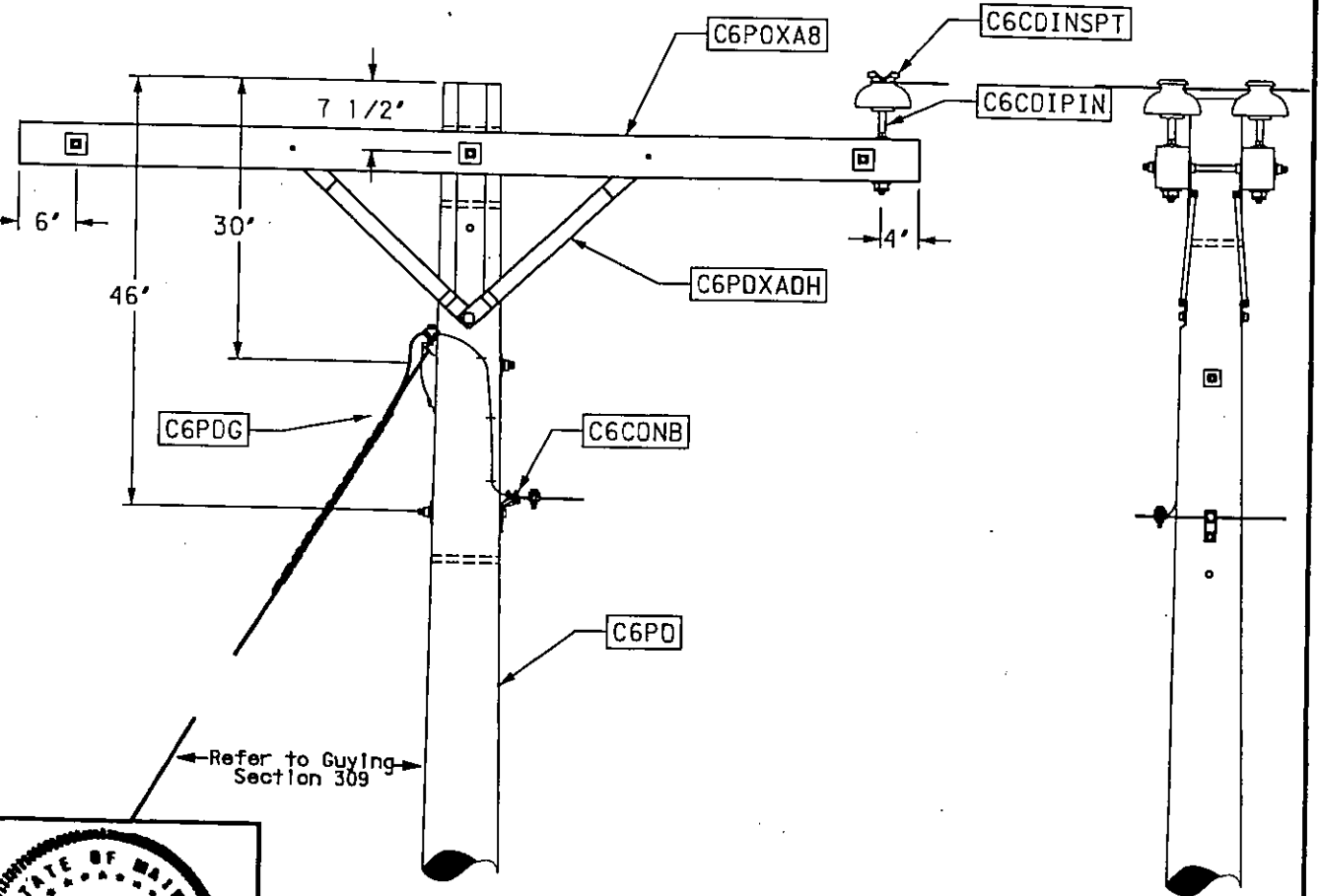
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	2	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIPIN	2	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA8	2	XARM, 6PINB, 8FT	
		XARM 6PIN 8	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

UP TO 25 FT. CORNER AT 2000* LINE TENSION
 UP TO 16 FT. CORNER AT 3000* LINE TENSION

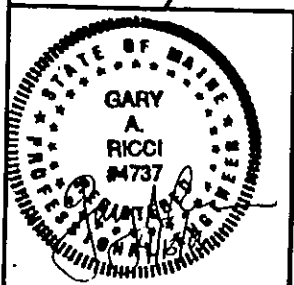
DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	12/29/05	



ORIGINAL	GRG	DATE	4/28/93
DESIGNED			
DRAWN			



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

Page 311-8A

IPH FIBERGLASS ALLEY ARM STRUCTURE

Macro: C6MC1AAF

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	1	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXAAF	1	XARM, ALLEY, 3PH FIBERGLASS WITH BRACE	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		BRACKET, ALLEY ARM, 3 PH FIBERGLASS	6000272700
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PDXAAFPEP	1	FIBERGLASS ALLEY BRACE POLE EYE PLATE	
		PLATE GUY ATT FG INS	6000251800
		BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		B LAG GALV FET 1/2 X 4	6000272540
		WSH 2 TURN SPR GALV 3/4	6000274610
		WASHER 3"X 4" CURVED FOR 3/4" BOLT	6000274850

MACRO
C6MC1 AAF

DESCRIPTION
1 PH FIBERGLASS ALLEY ARM STRUCTURE

PAGE
311-8B

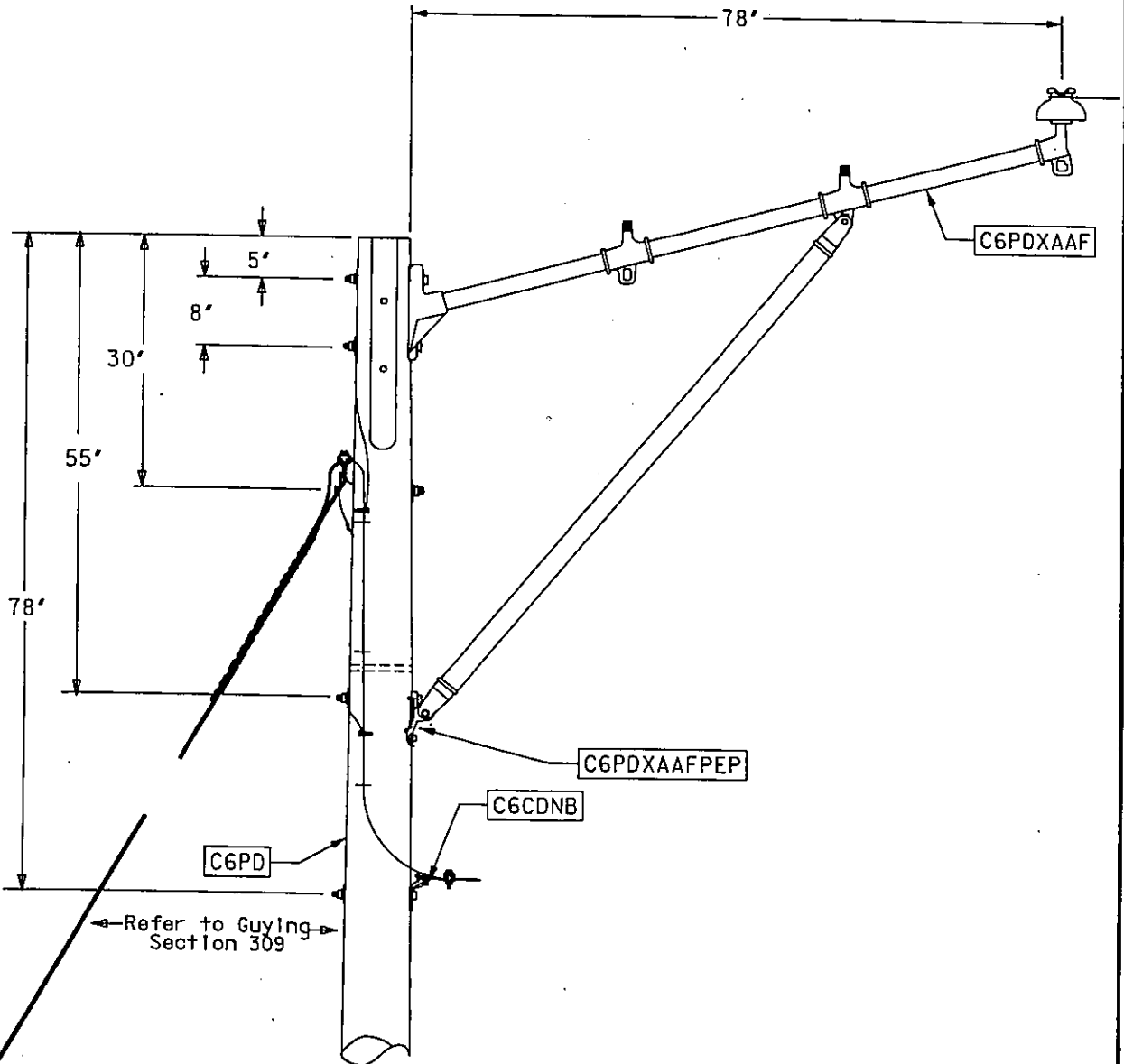
Up to 15ft. corner of 2000* line tension

DESIGNED	JEC	CS	REVISER	CS	REVISION
DRAWN	GRC	REC	REVISER	REC	REVISION
DATE	3/17/94	08/23/01			12/08/05



DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	GRC
	2/22/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 311-9A

1 PH SEMI STRAIN STRUCTURE

Macro: C6MC1SS

<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6CDEB5/8	2	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
C6CDHS1/2	1	SHACKLE 1/2IN W 5/8IN PIN	
		1 SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	1	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1 INSULATORS	6000310XXX
C6CDSSC	2	SEMI STRAIN CLAMP	
		1 SEMI STRAIN CLAMP ALUM OR GALV. STEEL	60001113XX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6POG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX

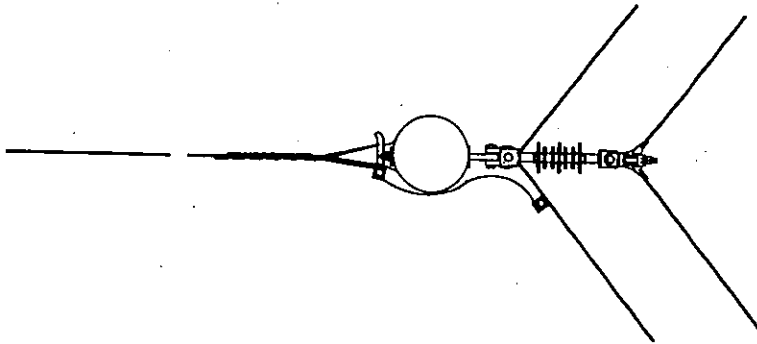
MACRO
C6MC1 SS

DESCRIPTION
1 PH SEMI STRAIN STRUCTURE

PAGE
311-9B

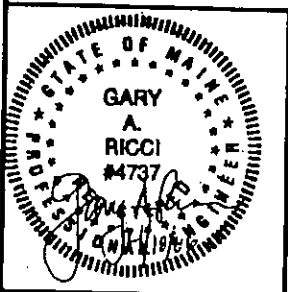
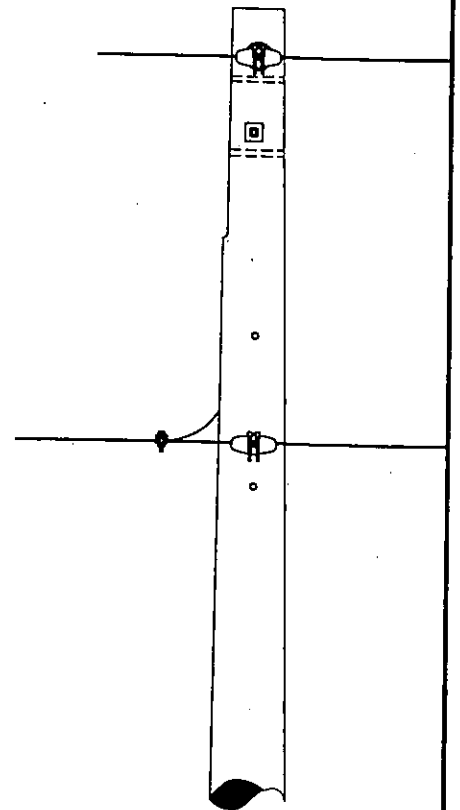
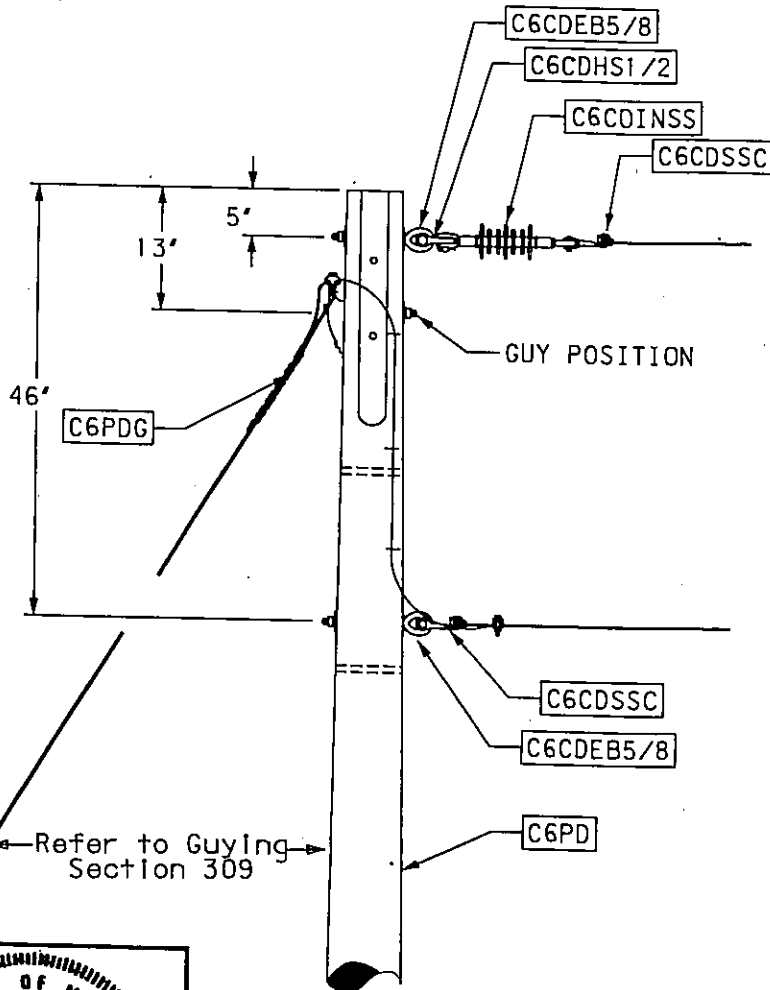
26-50 FT. CORNER AT 2000* LINE TENSION
17-50 FT. CORNER AT 3000* LINE TENSION

DESIGNED	JEC	CS	CS
DRAWN	GRG	REC	REC
DATE	1/19/95	08/23/01	01/05/06
REVISED		REVISED	
REVISED		REVISED	



DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	3/31/93
GRG	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 311-10A

1 PH TAKE OFF FROM SEMI STRAIN STRUCTURE

Macro: C6MC1TFSS

CU Number	Quantity - CU/Mat		Description	Material ID
C6CDDE	2		DEADEND COND GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	2		EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEMB	1		EQUIP MOUNTING BRACKET 18IN	
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1	BKT EQUIP MTG 18 IN	6000620140
C6CDFCO	1		FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	1		SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	1		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6CDPC	1		CONNECTOR, PRIMARY	
		1	CONNECTORS	600011XXXX
C6PDG	1		GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX

MACRO
C6MC1 TFSS

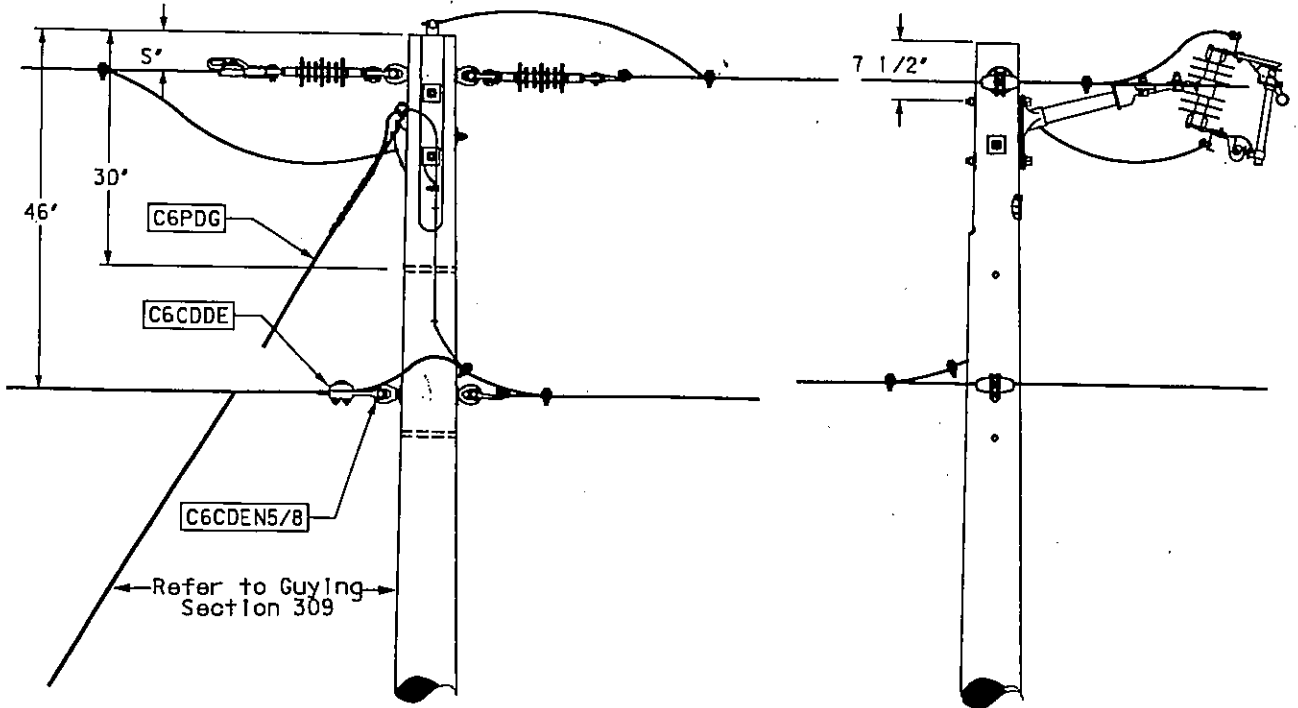
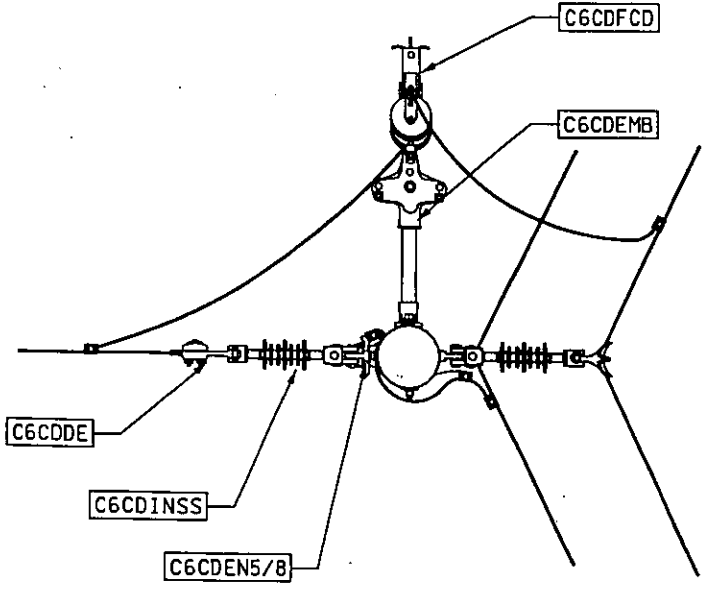
DESCRIPTION
1 PH TAKE OFF FROM SEMISTRAIN STRUCTURE

PAGE
311-10B

NOTE:

WHERE SEMISTRAIN CORNERS ARE LESS THAN 40° GUYING IS REQUIRED TO HOLD TAKE OFF.

DESIGNED	REVISOR	REVISION	DATE
CS	CS		06/16/05
REC	REC		08/23/01
DATE			11/27/05



DESIGNED	ORIGINAL
GRG	GRG
DRAWN	
DATE	
4/1/93	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

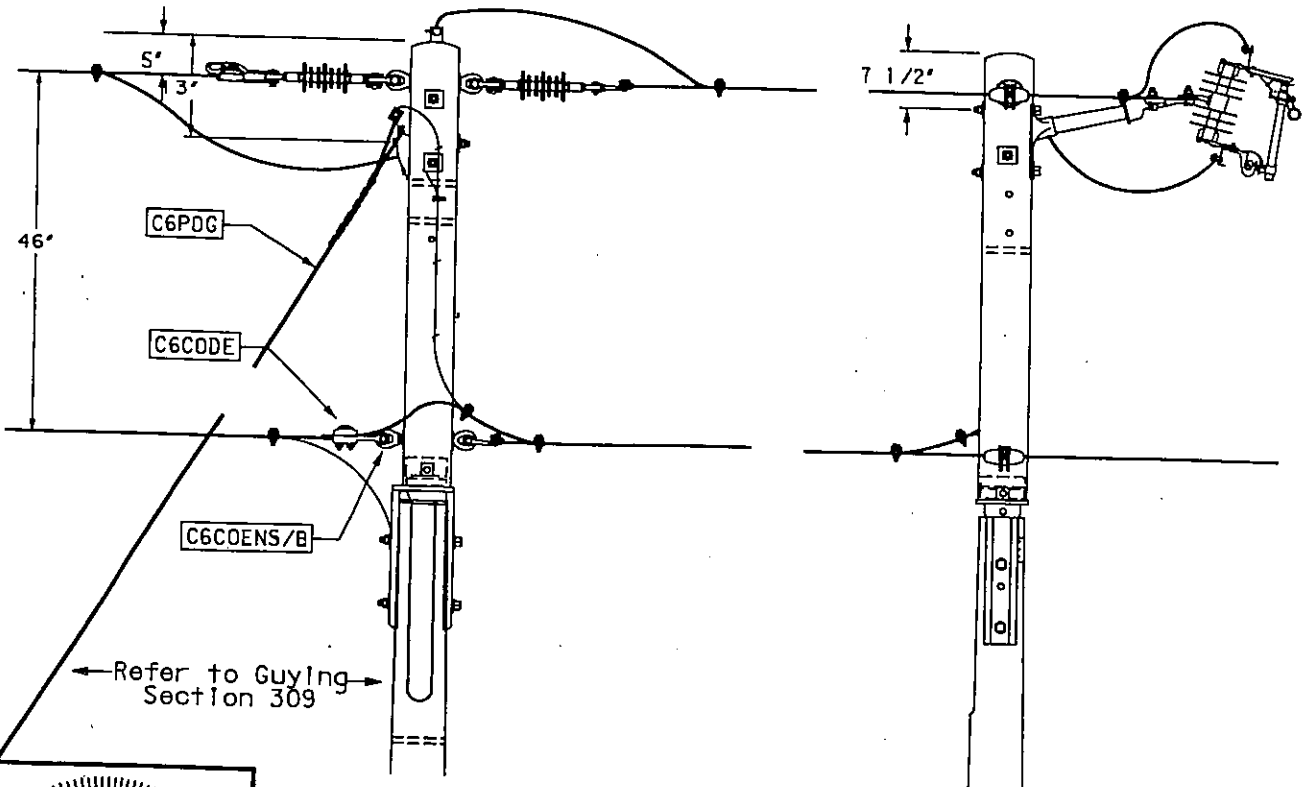
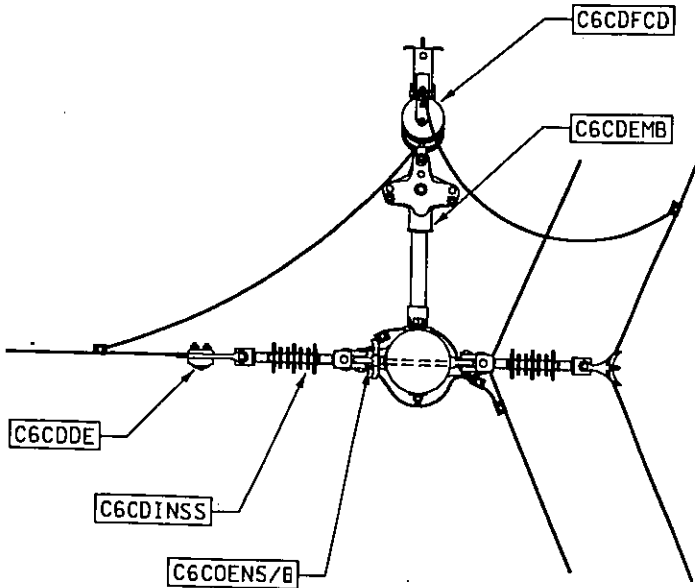
Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CODE	2	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1 DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	2	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
C6CDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	2	EYE NUT ROUND 5/8 INCH	
		1 NUT EYE ROUND 5/8 TAP	6000273430
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDFCO	1	FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	2	SHACKLE 1/2IN W 5/8IN PIN	
		1 SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	2	INS DEADEND GENERIC (SELECT FRDM CUCT)	
		1 INSULATORS	6000310XXX
C6CDSSC	2	SEMI STRAIN CLAMP	
		1 SEMI STRAIN CLAMP ALUM OR GALV. STEEL	60001113XX
C6PD1EXT	1	POLETOP FIBERGLASS EXTENSION, 60 IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1 POLE TOP EXT 60IN FIBER	6000274218
		2 WSH 2 TURN SPR GALV 5/8	6000274600
C6PDG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX

NDTES:

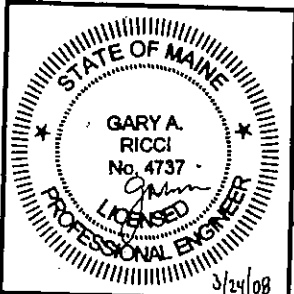
1. WHERE SEMISTRRAIN CDRNERS ARE LESS THAN 40' GUYING IS REQUIRED TO HOLD TAKE DFF.
2. 60" FIBERGLASS POLE TOP EXTENSIONS SHDULD NOT BE USED IN AREAS NOT ACCESSIBLE TO LINE TRUCKS.

REV.	REVISION	DATE	CHK.
1	Added note 2		



DESIGNED	CS
DRAWN	REC
DATE	04/12/01

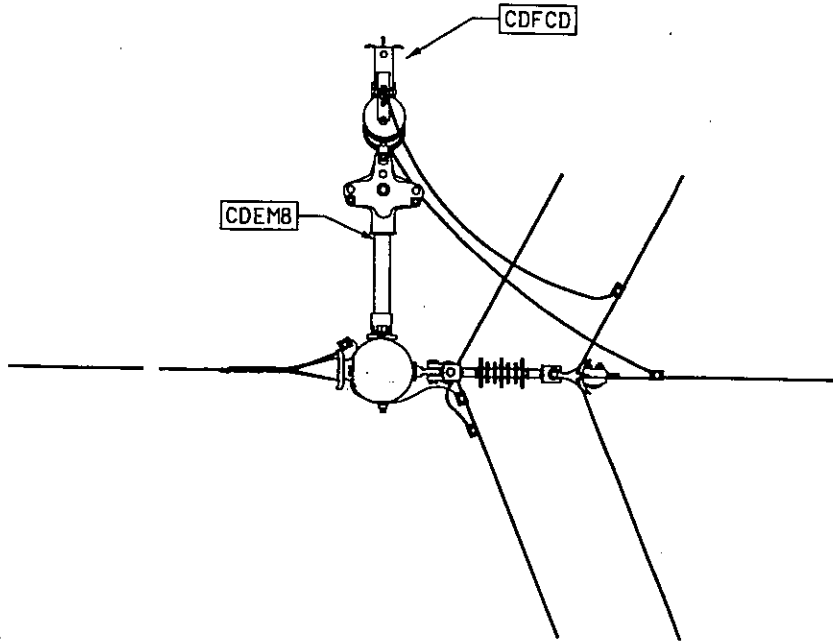
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



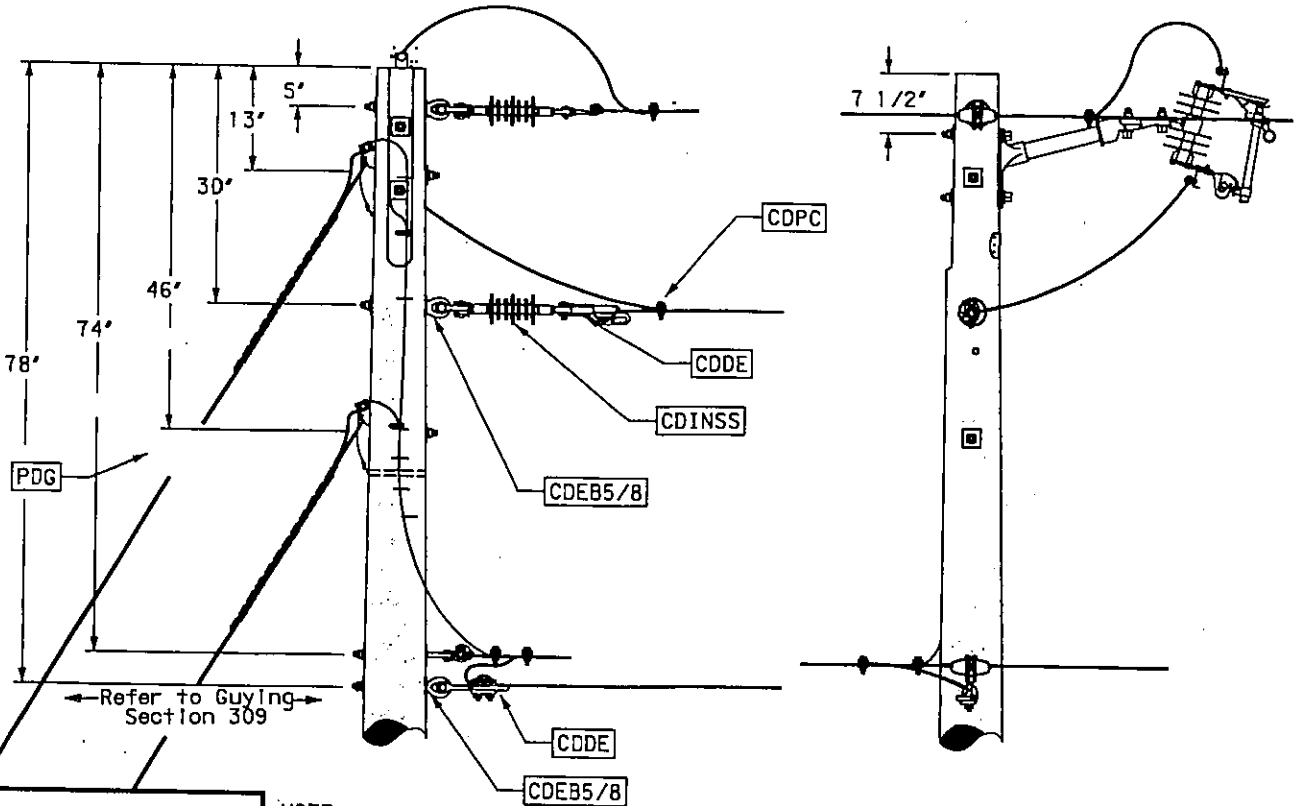
Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	2	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1 DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	2	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6CDFCO	1	FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	1	SHACKLE 1/2IN W 5/8IN PIN	
		1 SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	1	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1 INSULATORS	6000310XXX
C6CDPC	1	CONNECTOR, PRIMARY	
		1 CONNECTORS	600011XXXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	11/18/06	



DESIGNED	GRG	DATE
DRAWN		4/1/93
DATE		



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
Guy for takeoff can be
Installed on existing anchor.



Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>		<i>Description</i>	<i>Material ID</i>
C6CDDE	2		DEADEND COND GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	2		EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
C6CDHS1/2	1		SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	1		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6PD	1		POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1		ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1		GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX

MACRO
C6MC1 DE

DESCRIPTION
1 PH DEADEND STRUCTURE

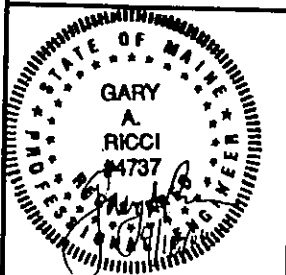
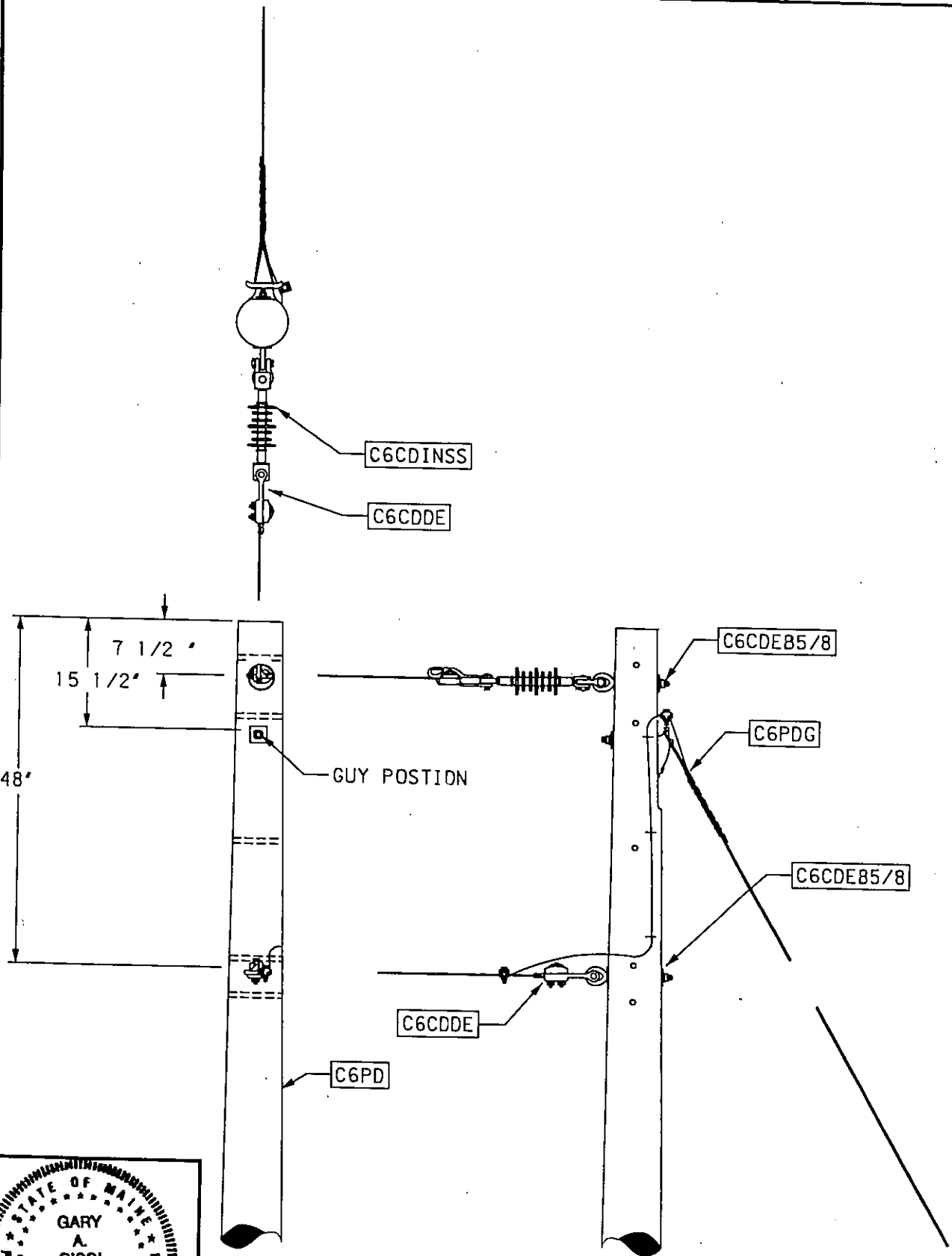
PAGE
311-13B

DESIGNED	REVISOR	REVISION	DATE
CS	CS		
DRAWN	REC	REC	
DATE	08/23/01	01/05/06	



DESIGNED	DATE
GRG	3/31/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 311-14A

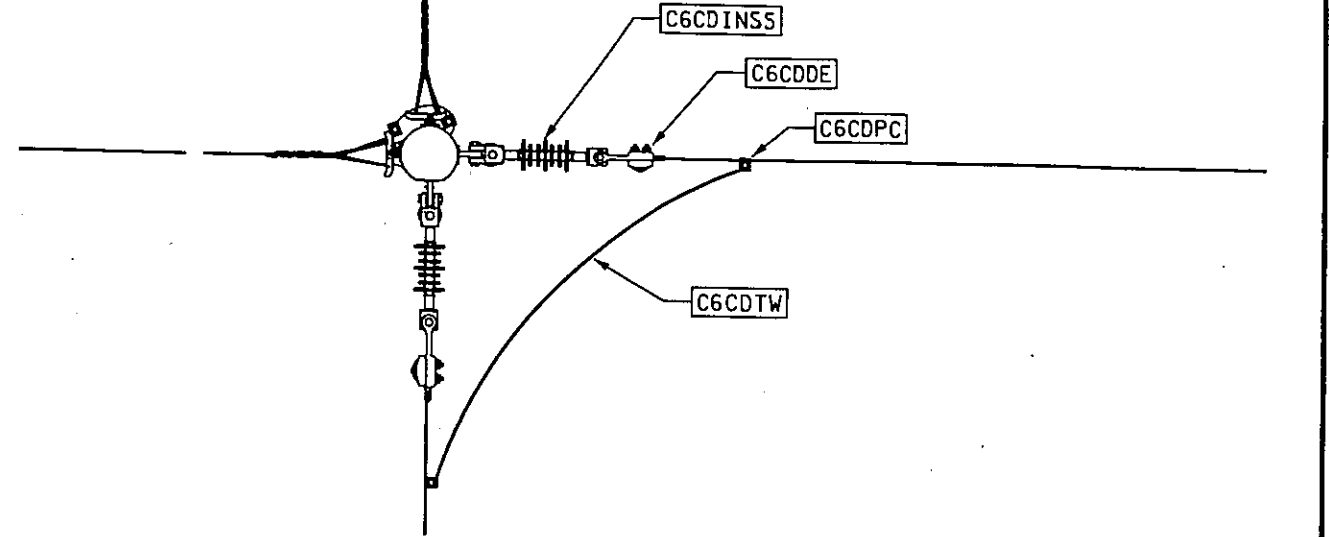
1 PH DOUBLE DEADEND CORNER STRUCTURE

Macro: C6MC1DDEC

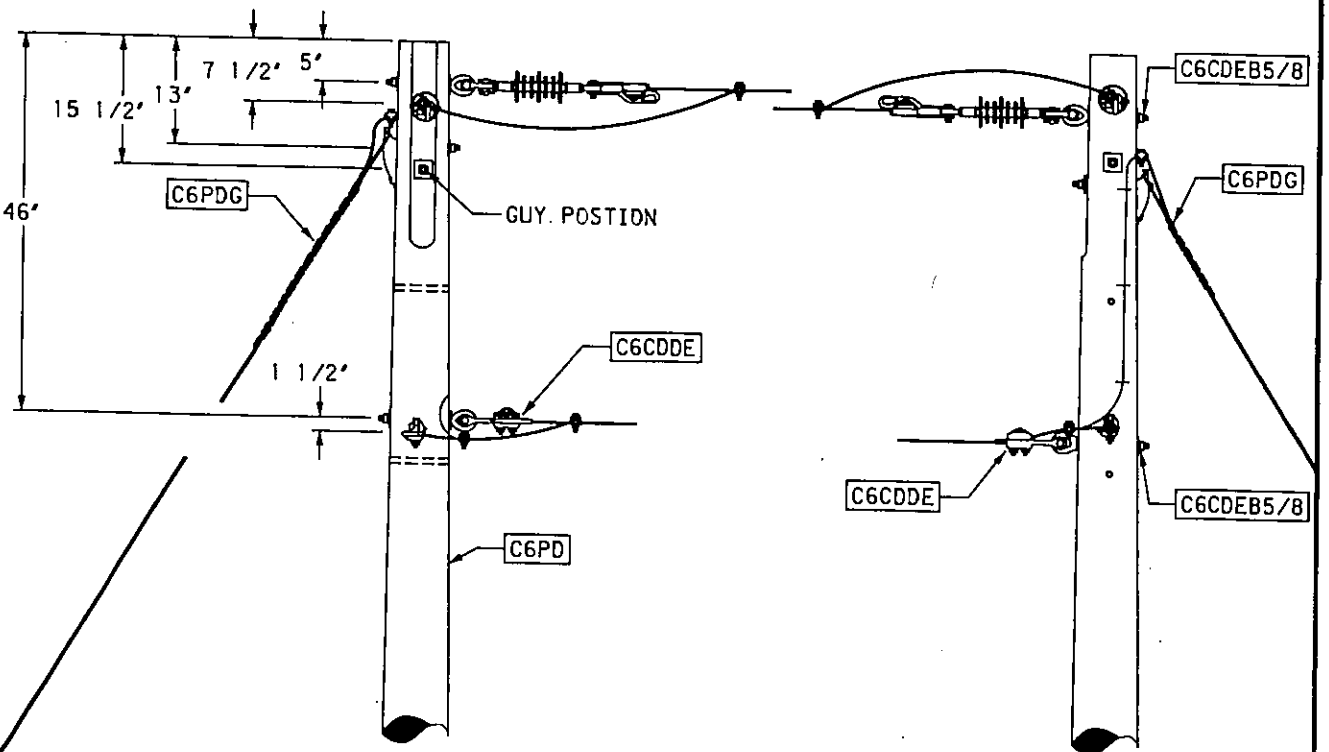
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDE	4	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)
			60001106XX
C6CDEB5/8	4	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS
			600027045X
		1	WSH 2 TURN SPR GALV 5/8
			6000274600
		2	WASHER,SQUARE,GALVANIZED ALL SIZES
			60002748XX
C6CDHS1/2	2	SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN
			6000274320
C6CDINSS	2	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS
			6000310XXX
C6CDPC	3	CONNECTOR,PRIMARY	
		1	CONNECTORS
			600011XXXX
C6CDTW	7	TAPWIRE GENERIC (SELECT FROM CUCT)	
		1	TAP WIRE (SELECT FROM CUCT)
			600020XXXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)
			600074XXXX
C6PDA	2	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)
			6000250XXX
C6PDG	2	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)
			60002527XX

OVER 50 FT. CORNER

DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	01/05/06	



DESIGNED	ORIGINAL	DRAWN	GRG
DATE	3/31/93		



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

Page 312-1A

2 PH SINGLE XARM 0-6FT CORNER

Macro: C6MC2SX0-6

<i>CU Number</i>	<i>Quantity - CU/Mat</i>		<i>Description</i>	<i>Material ID</i>
C6CDINSPT	2		INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1	INSULATORS	6000310XXX
C6COIPIN	2		INSULATOR PINS VARIOUS SIZES LOBBY	
		1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6PDXA8	1		XARM, 6PINB, 8FT	
		1	XARM 6PIN 8	6000740510
C6POXASH	1		XARM, SINGLE, HARDWARE ONLY	
		2	B CARR GALV 3/8 X 5	6000270310
		1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1	B LAG GALV FET 1/2 X 4	6000272540
		2	BRACE XARM 28 IN	6000272670
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		3	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC2SX0-6

DESCRIPTION
2PH SINGLE XARM 0-6 FT. CORNER

PAGE
312-1B

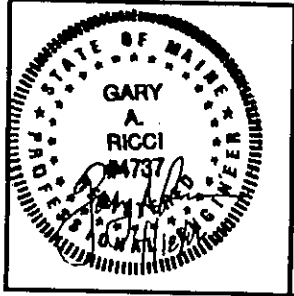
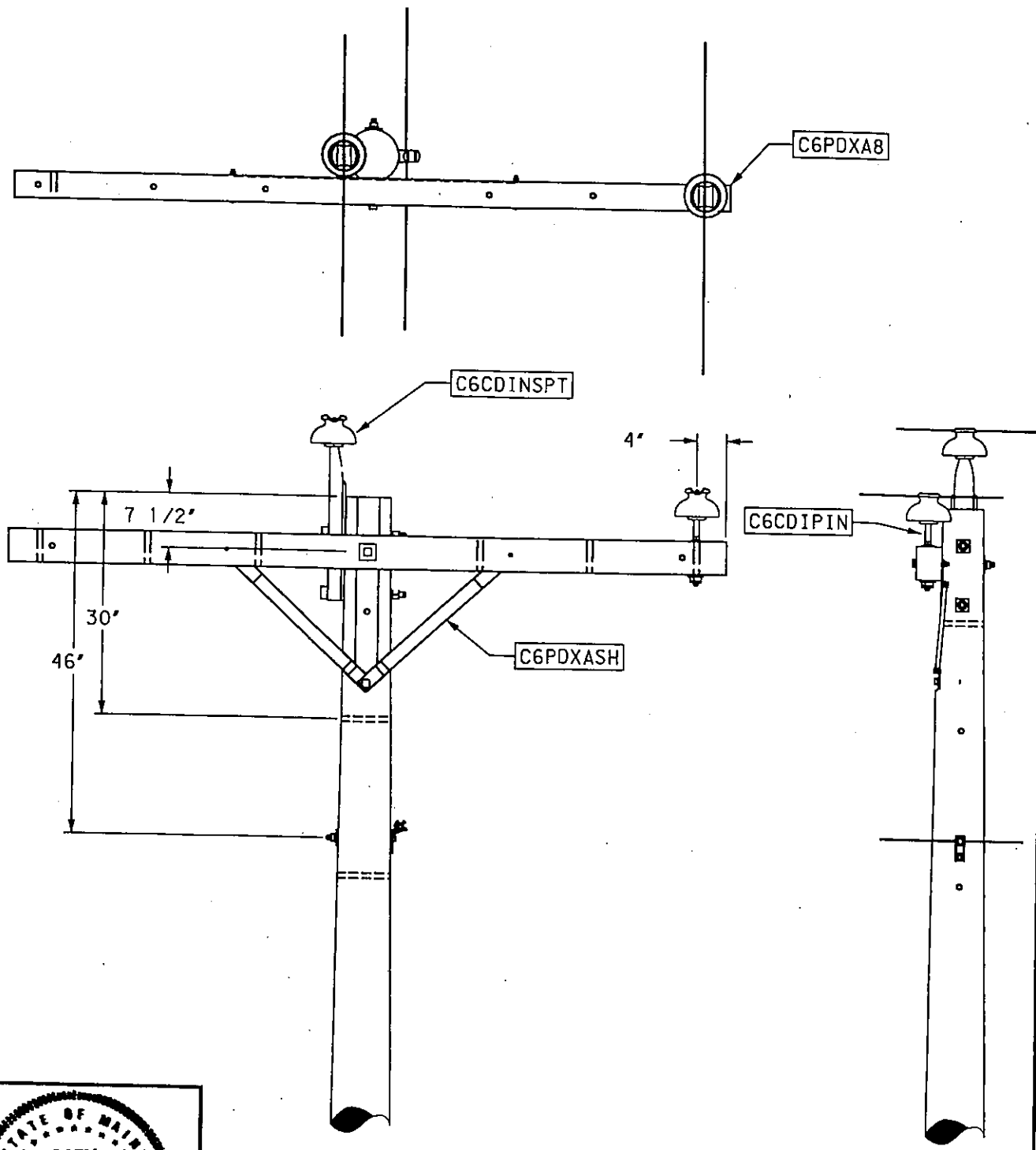
0 - 6 Ft. Corner at 2000* line tension
0 - 5 Ft. Corner at 3000* line tension

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
08/23/01	12/14/05		



ORIGINAL	REVIS
DESIGNED	CS
DRAWN	REC
DATE	
2/2/94	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 312-2A

2PH DOUBLE XARM 6-25 FT CORNER

Macro: C6MC2DX6-25

<i>CU Number</i>	<i>Quantity - CU/Mult</i>	<i>Description</i>	<i>Material ID</i>
C6CDINSPT	2	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1 INSULATORS	6000310XXX
C6COIPIN	2	INSULATOR PINS VARIOUS SIZES LOBBY	
		1 XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6PDXA8	2	XARM, 6PINB, 8FT	
		1 XARM 6PIN 8	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 28 IN	6000272670
		10 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

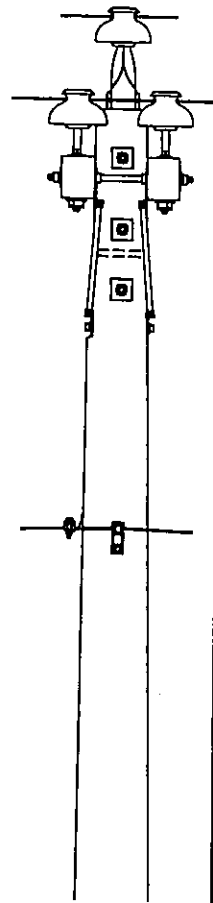
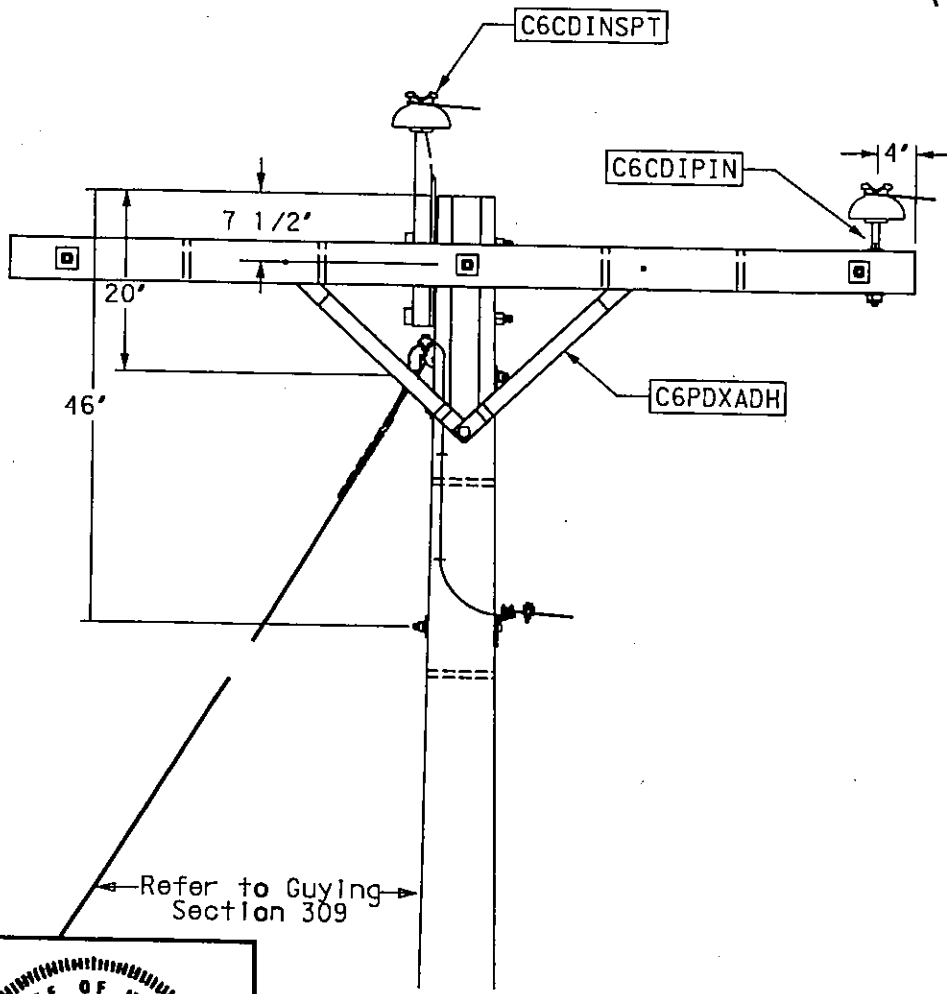
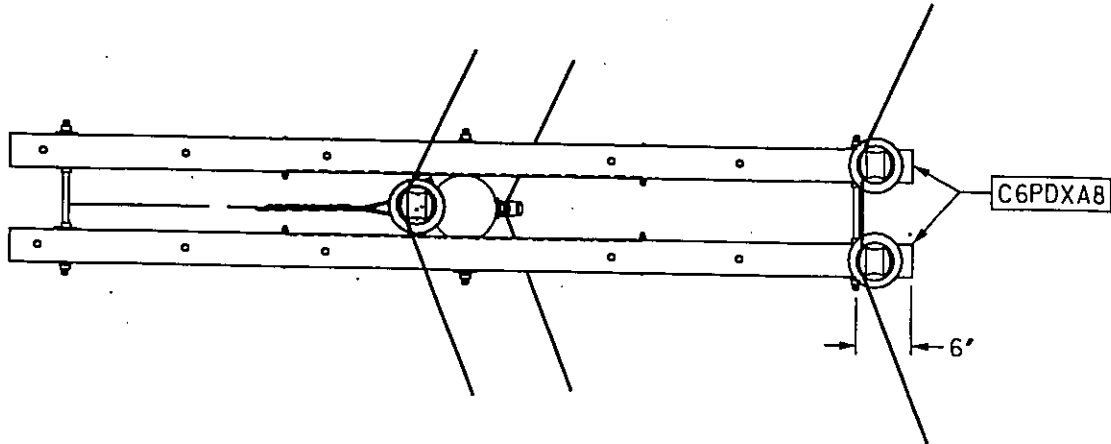
MACRO
C6MC2DX6-25

DESCRIPTION
2 PH DOUBLE XARM 6 - 25 FT. CORNER

PAGE
312-2B

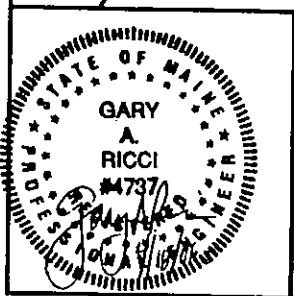
6 - 25 Ft. Corner of 2000* line tension
6 - 15 Ft. Corner of 3000* line tension

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	10/01/01	01/05/06	



DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	GRG
	2/2/94

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

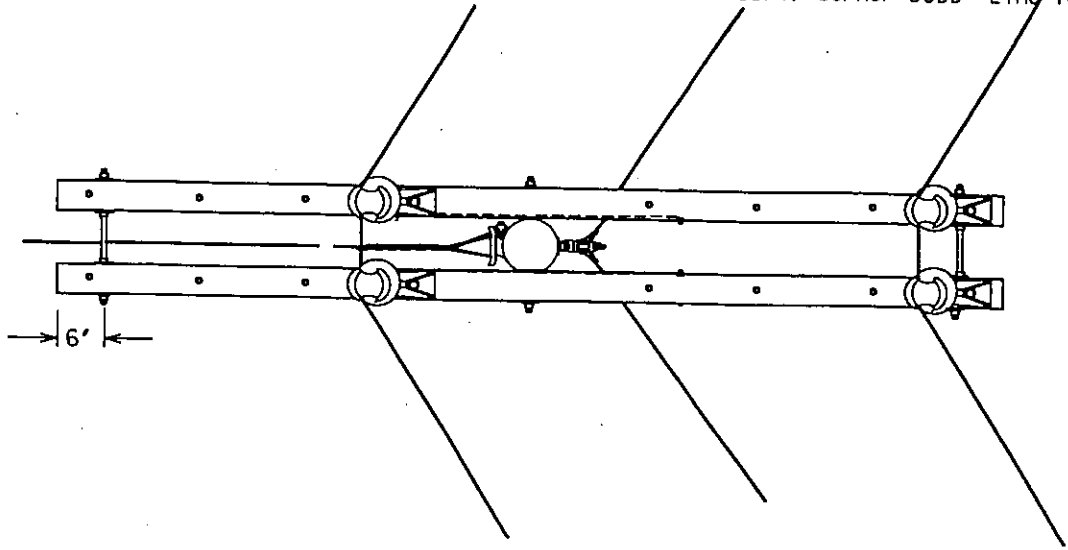
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDEB5/8	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDINSPT	4	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1 INSULATORS	6000310XXX
C6CDIPINA	4	INSULATOR PIN ANGLE BRACKET 1INCH	
		1 PIN ANGLE BRACKET 1 IN	6000273B74
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		1 WSHFLT GALV SQ 2 1/4 X 3/16	6000274810
		1 BOLT 5/8" X 7" MACH GALV W/ NUT	703061
C6CDSSC	1	SEMI STRAIN CLAMP	
		1 SEMI STRAIN CLAMP ALUM OR GALV. STEEL	60001113XX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA10	2	XARM, BPINB, 10 FT	
		1 XARM B PIN B	6000740540
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 2B IN	6000272670
		10 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC2DX26-50

DESCRIPTION
2 PH DOUBLE ARM ANGLE PIN TO 50 FT CORNER

PAGE
312-3B

26 - 50ft. Corner 2000* Line Tension
16 - 30ft. corner 3000* Line Tension

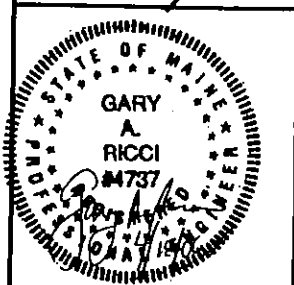
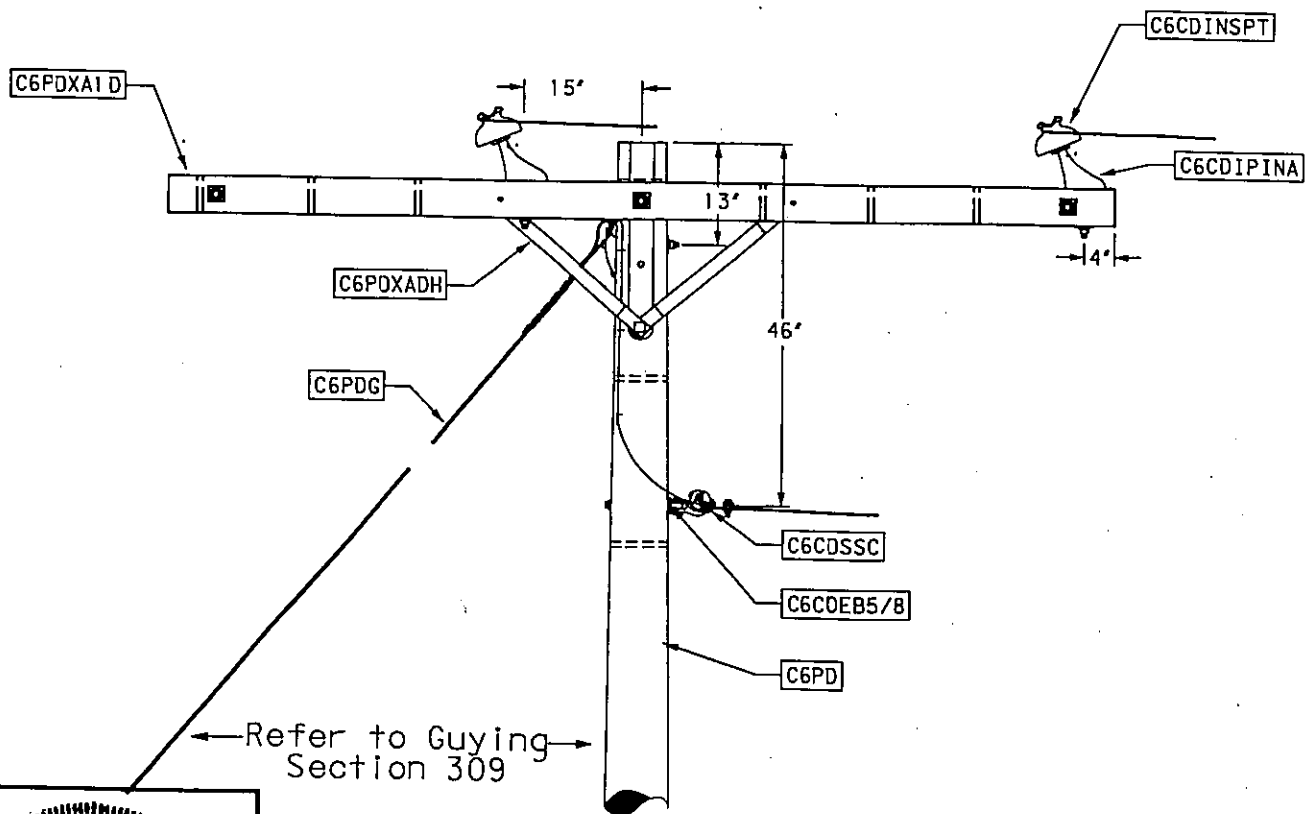


DESIGNED	REVISOR	REVISION	DATE
CS	CS		
REC	REC		
DATE	10/05/01	12/29/05	



DESIGNED	JEC
DRAWN	GRG
DATE	10/10/95

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	3	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIPIN	2	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 24X1 3/8INCH	6000274170
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDXA8	1	XARM, 6PINB, 8FT	
		XARM 6PIN 8	6000740510
C6PDXASH	1	XARM, SINGLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

0-6 FT. CORNER AT 2000* LINE TENSION
 0-5 FT. CORNER AT 3000* LINE TENSION

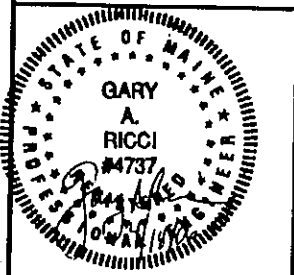
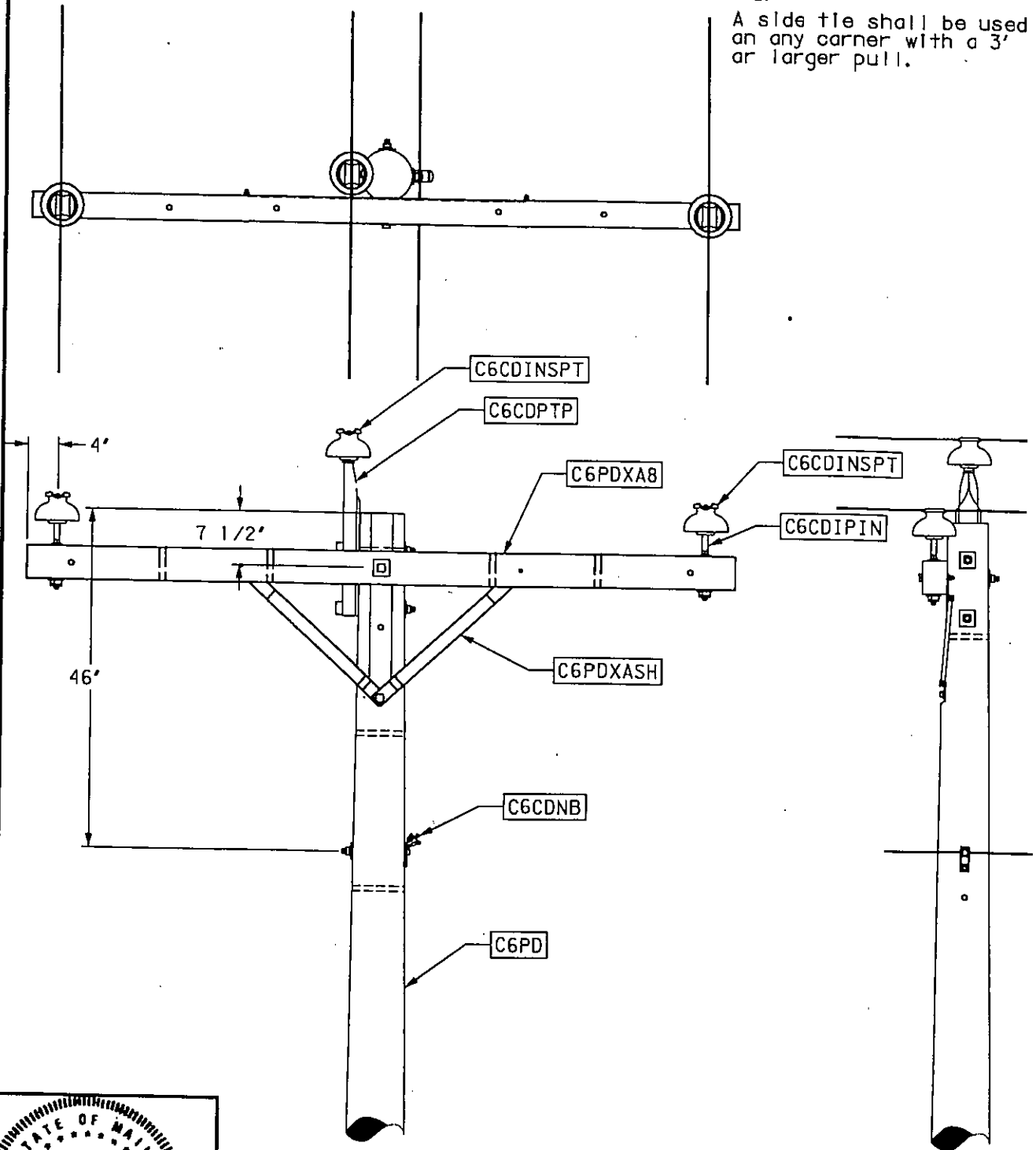
NOTE:
 A side tie shall be used on any corner with a 3' or larger pull.

DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
08/23/01	01	12/19/05	



ORIGINAL	GRG	DATE	4/9/93
DESIGNED	GRG	DRAWN	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

Page 313-2A

3 PH POLE TOP EXTENSION F/G SINGLE XARM

Macro: C6MP3PTE0-6

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	3	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIPIN	2	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 24X1 3/8 INCH	6000274170
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PD1EXT	1	POLETOP FIBERGLASS EXTENSION, 60 IN	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP EXT 60IN FIBER	6000274218
		WSH 2 TURN SPR GALV 5/8	6000274600
C6PDFGPTXASH	1	FG POLE TOP EXT XARM SINGLE, HRDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, THRU 1/2 IN. ALL LENGTHS	600027205X
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		BRACE XARM 28 IN	6000272670
		GAIN XARM 8 FT.	6000273185
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PDXA8	1	XARM, 6PIN, 8FT	
		XARM 6PIN 8	6000740510

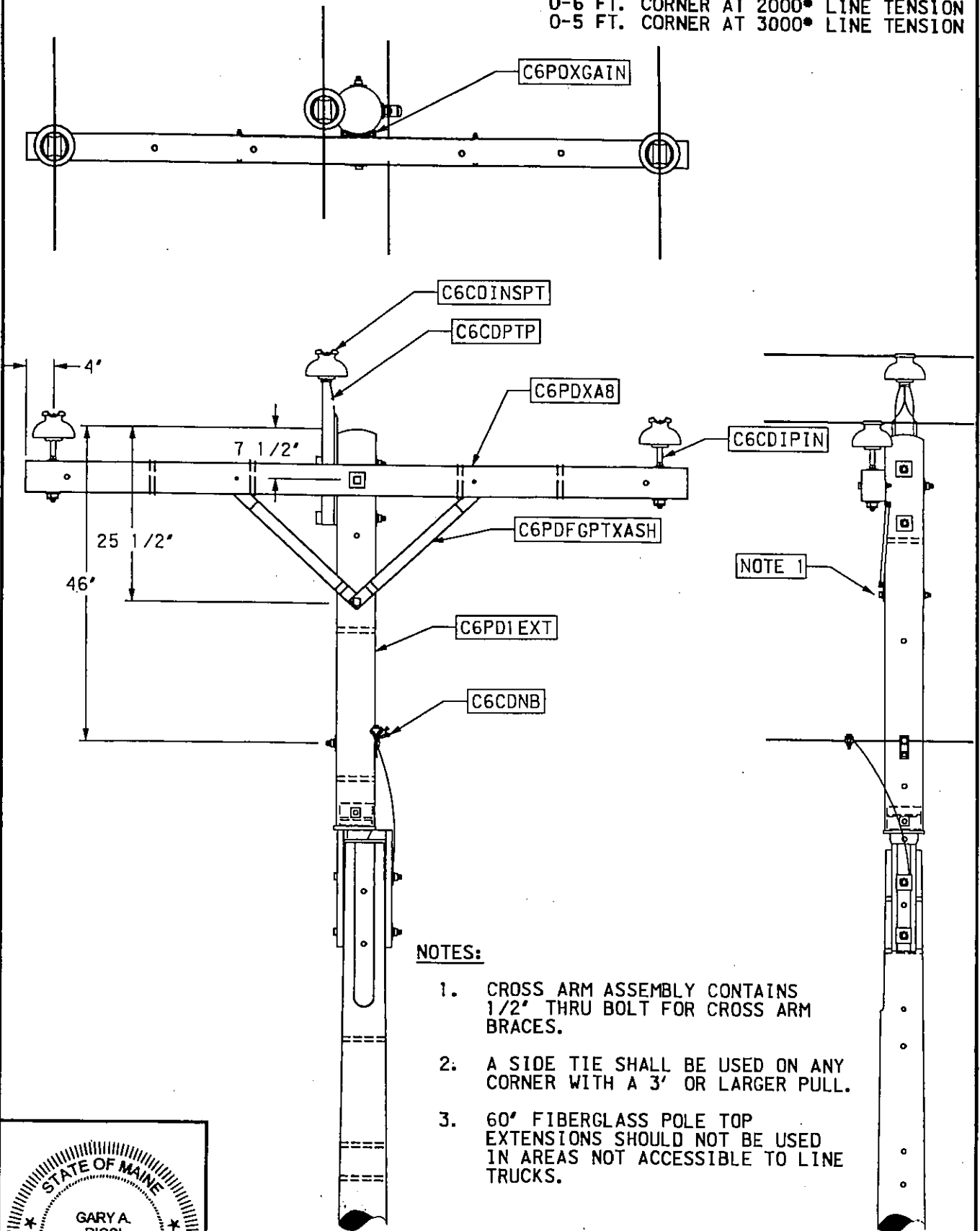
MACRO
C6MP3PTE0-6

DESCRIPTION
3 PH POLE TOP EXTENSION F/G SINGLE ARM

PAGE
313-2B

0-6 FT. CORNER AT 2000* LINE TENSION
0-5 FT. CORNER AT 3000* LINE TENSION

NO.	REVISION	DATE	CHK.
1	Added note 3		



NOTE 1

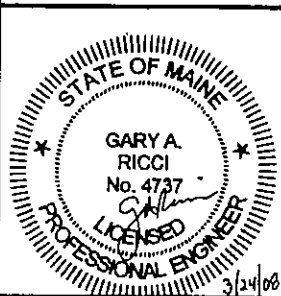
NOTES:

1. CROSS ARM ASSEMBLY CONTAINS 1/2" THRU BOLT FOR CROSS ARM BRACES.
2. A SIDE TIE SHALL BE USED ON ANY CORNER WITH A 3' OR LARGER PULL.
3. 60' FIBERGLASS POLE TOP EXTENSIONS SHOULD NOT BE USED IN AREAS NOT ACCESSIBLE TO LINE TRUCKS.



ORIGINAL	GRG
DESIGNED	
DRAWN	
DATE	5/28/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID	
C6CDDE	2	DEADEND COND GENERIC (SELECT FROM CUCT)		
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	2	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS		
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDFCO	1	FUSED CUTOUT GENERIC (SELECT FROM CUCT)		
		1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	1	SHACKLE 1/2IN W 5/8IN PIN		
		1	SHACKLE 1/2 IN W5/8PIN	6000274320
C6CDINSS	1	INS DEADEND GENERIC (SELECT FROM CUCT)		
		1	INSULATORS	6000310XXX
C6CDLAMB	1	XARM MOUNTING BRACKET		
		1	BKT EQUIP MTG CROSSARM	6000620100
C6CDPC	1	CONNECTOR, PRIMARY		
		1	CONNECTORS	600011XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)		
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)		
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX

MACRO
C6MC31 TFSX

DESCRIPTION
1 PH TAP FROM 3 PH XARM STRUCTURE

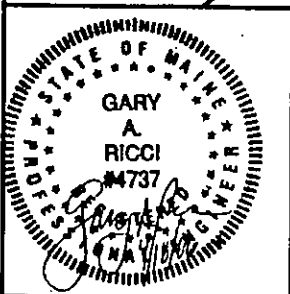
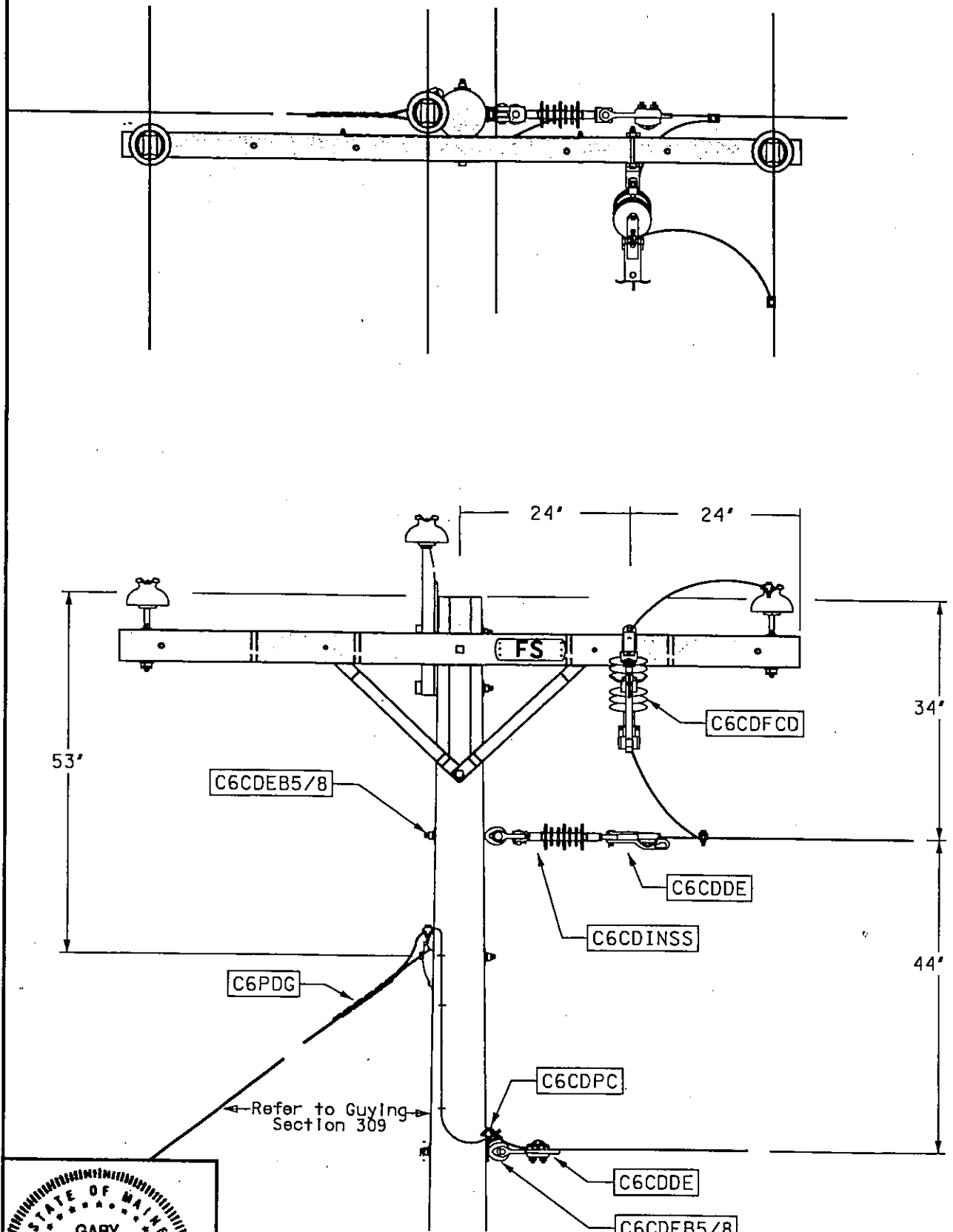
PAGE
313-3B

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	12/19/05	



ORIGINAL	DESIGNED	DATE
GRG	GRG	4/9/93
DRAWN	DRAWN	
DATE	DATE	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>		<i>Description</i>	<i>Material ID</i>
C6CDDE	4		DEADEND COND GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	2		EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	2		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDFCO	2		FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	2		SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	2		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6CDLAMB	2		XARM MOUNTING BRACKET	
		1	BKT EQUIP MTG CROSSARM	6000620100
C6CDPC	2		CONNECTOR, PRIMARY	
		1	CONNECTORS	600011XXXX

MACRO
C6MC32TFSX

DESCRIPTION
TWO 1 PH TAPS FROM 3 PH XARM STRUCTURE

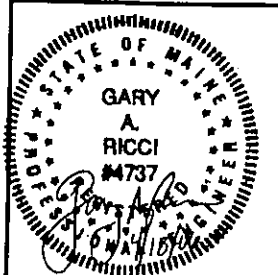
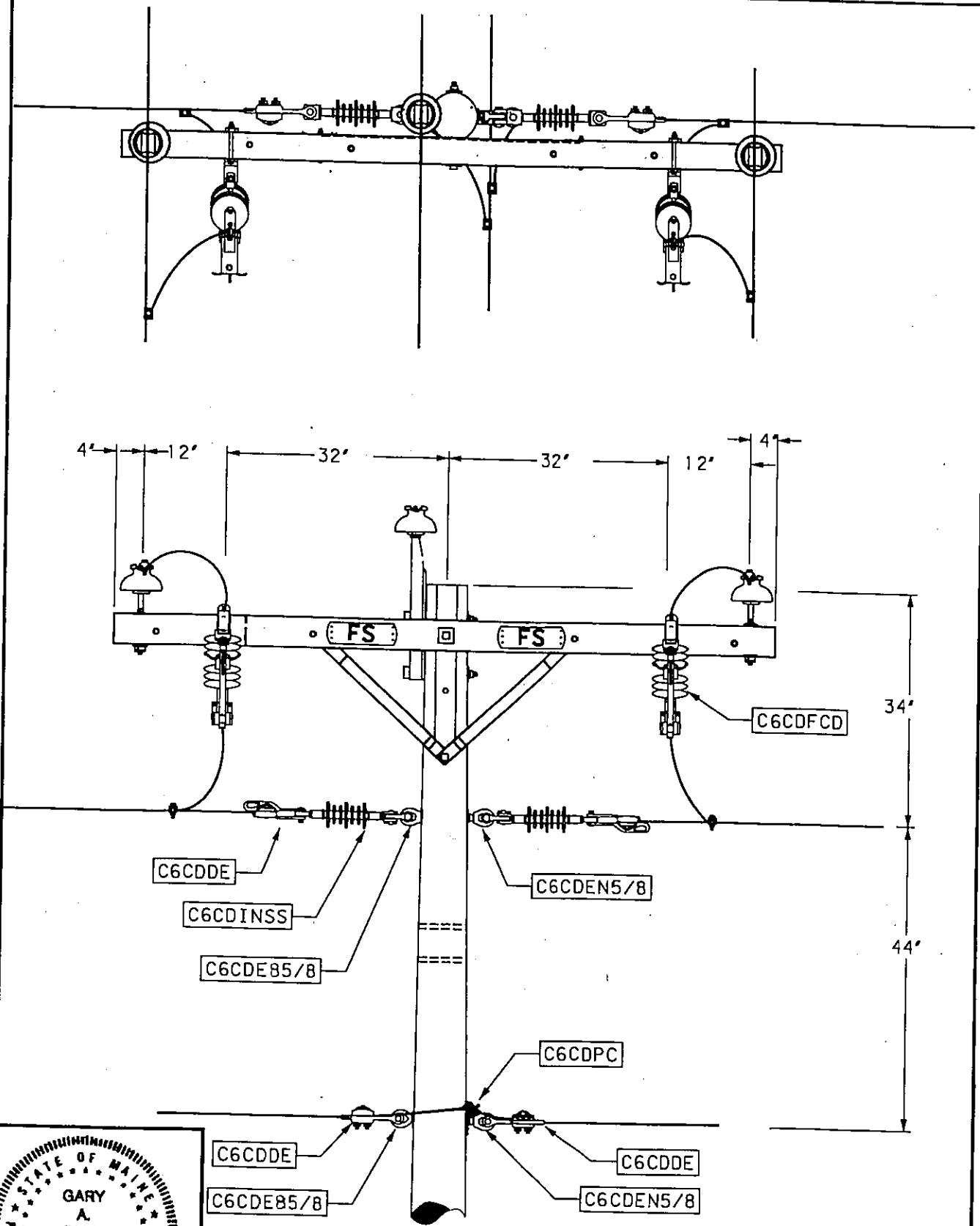
PAGE
31 3-4B

DESIGNED	REVISOR	REVISION	DATE
CS	CS		
REC	REC		
DATE	08/23/01	12/19/05	



DESIGNED	GRG
DRAWN	
DATE	6/16/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	4	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT) 60001106XX
C6CDEN5/8	4	EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP 6000273430
		1	WSH 2 TURN SPR GALV 5/8 6000274600
C6CDHS1/2	3	SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN 6000274320
C6CDINSPT	2	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1	INSULATORS 6000310XXX
C6CDINSS	3	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS 6000310XXX
C6CDIPIN	2	INSULATOR PINS VARIOUS SIZES LOBBY	
		1	XARM PINS, USE APPROPRIATE SIZE 6000273XXX
		1	WSH 2 TURN SPR GALV 5/8 6000274600
C6CDPC	8	CONNECTOR,PRIMARY	
		1	CONNECTORS 600011XXXX
C6COTW	20	TAPWIRE GENERIC (SELECT FROM CUCT)	
		1	TAP WIRE (SELECT FROM CUCT) 600020XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT) 6000250XXX
C6PDG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6) 60002527XX
C6PDXA8	2	XARM, 6PINB, 8FT	
		1	XARM 6PIN 8 6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		4	B CARR GALV 3/8 X 5 6000270310
		3	BOLT, SPACE, 5/8 IN, ALL SIZES 600027217X
		2	B LAG GALV FET 1/2 X 4 6000272540
		4	BRACE XARM 28 IN 6000272670
		10	WASHER,SQUARE,GALVANIZED ALL SIZES 60002748XX
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES 6000274XXX

MACRO
C6MC3DXTNF

DESCRIPTION
3 PH DOUBLE XARM TAP N/FUSED

PAGE
313-5B

2000* MAXIMUM LINE TENSION
FOR *3000 LINE TENSION SEE 313-7B

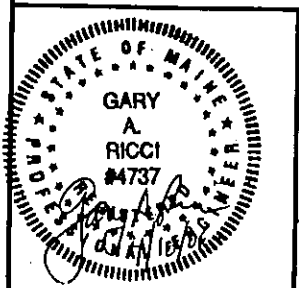
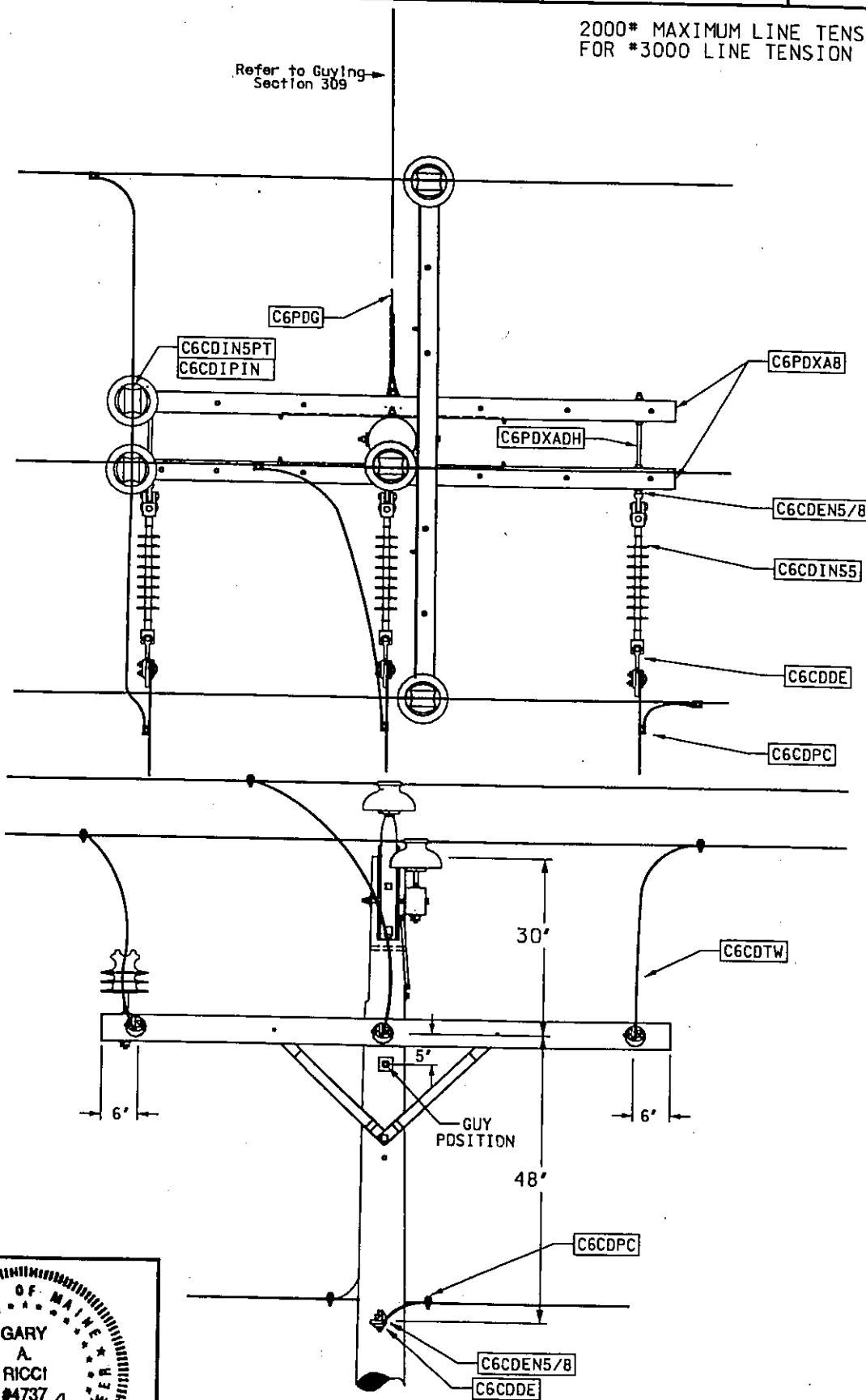
Refer to Guying
Section 309

DESIGNED	CS	REVIS	REVIS	REVIS
DRAWN	REC	REC	REC	REC
DATE	08/31/01	12/19/05		



DESIGNED	GRG	DATE	7/13/93
DRAWN			

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat		Description	Material ID
C6C00E	4		DEADEND COND GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEN5/8	4		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6C0FCO	3		FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	3		SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSPT	2		INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1	INSULATORS	6000310XXX
C6CDINSS	3		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6C0IPIN	2		INSULATOR PINS VARIOUS SIZES LOBBY	
		1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDLAMB	3		XARM MOUNTING BRACKET	
		1	BKT EQUIP MTG CROSSARM	6000620100
C6CDPC	2		CONNECTOR,PRIMARY	
		1	CONNECTORS	600011XXXX
C6PDA	1		ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1		GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA8	2		XARM, 6PINB, 8FT	
		1	XARM 6PIN 8	6000740510
C6PDXADH	1		XARM, DOUBLE, HARDWARE ONLY	
		4	B CARR GALV 3/8 X 5	6000270310
		3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2	B LAG GALV FET 1/2 X 4	6000272540
		4	BRACE XARM 28 IN	6000272670
		10	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3DXTF12

DESCRIPTION
3 PH DOUBLE XARM TAP FUSED FROM 12KV

PAGE
313-6B

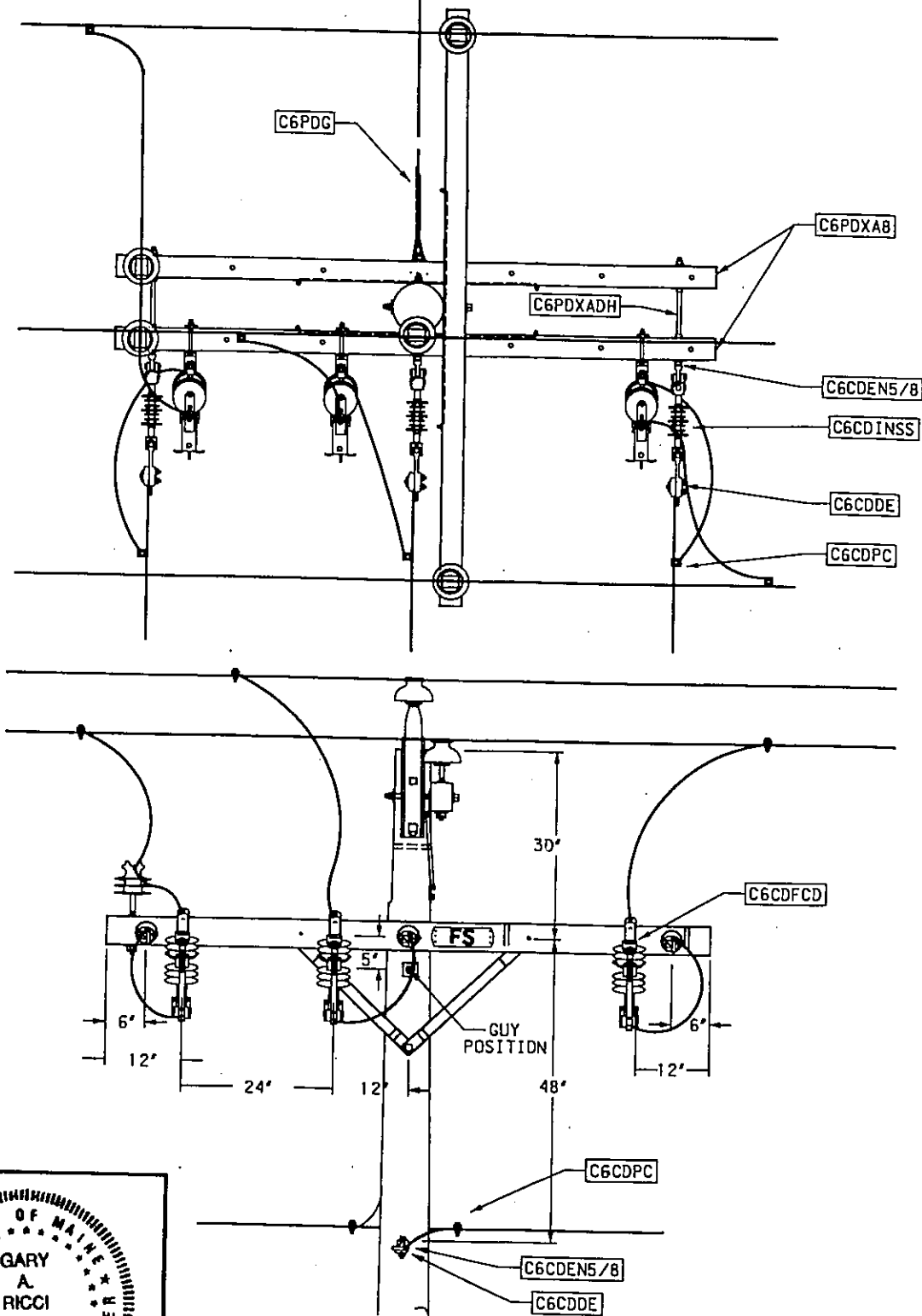
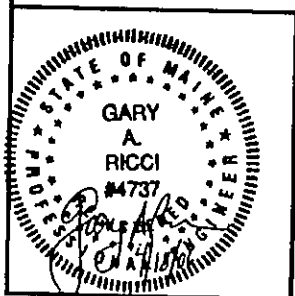
2000* MAXIMUM LINE TENSION
3000* LINE TENSION SEE 313-7B

DESIGNED	CS	REVIS	CS	REVISED	
DRAWN	REC	REC	REC		
DATE	08/31/01		01/05/06		



DESIGNED	GRG	ORIGINAL	
DRAWN			
DATE	4/16/93		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID	
C6CDDE	4	DEADEND COND GENERIC (SELECT FROM CUCT)		
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEN5/8	4	EYE NUT ROUND 5/8 INCH		
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	3	SHACKLE 1/2IN W 5/8IN PIN		
		1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSPT	2	INSULATOR PIN TYPE GENERIC (SELECT FROM		
		1	INSULATORS	6000310XXX
C6CDINSS	3	INS DEADEND GENERIC (SELECT FROM CUCT)		
		1	INSULATORS	6000310XXX
C6CDIPIN	2	INSULATOR PINS VARIOUS SIZES LOBBY		
		1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDPC	8	CONNECTOR,PRIMARY		
		1	CONNECTORS	600011XXXX
C6CDTW	20	TAPWIRE GENERIC (SELECT FROM CUCT)		
		1	TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)		
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)		
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA8	3	XARM, 6PINB, 8FT		
		1	XARM 6PIN 8	6000740510
C6PDXATH	1	XARM, TRIPLE, HARDWARE ONLY		
		4	B CARR GALV 3/8 X 5	6000270310
		3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2	B LAG GALV FET 1/2 X 4	6000272540
		4	BRACE XARM 28 IN	6000272670
		13	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3TXTNF

DESCRIPTION
3 PH TRIPLE XARM TAP N/FUSED

PAGE
313-7B

3000* MAXIMUM LINE TENSION
FOR #2000 LINE TENSION SEE 313-5B

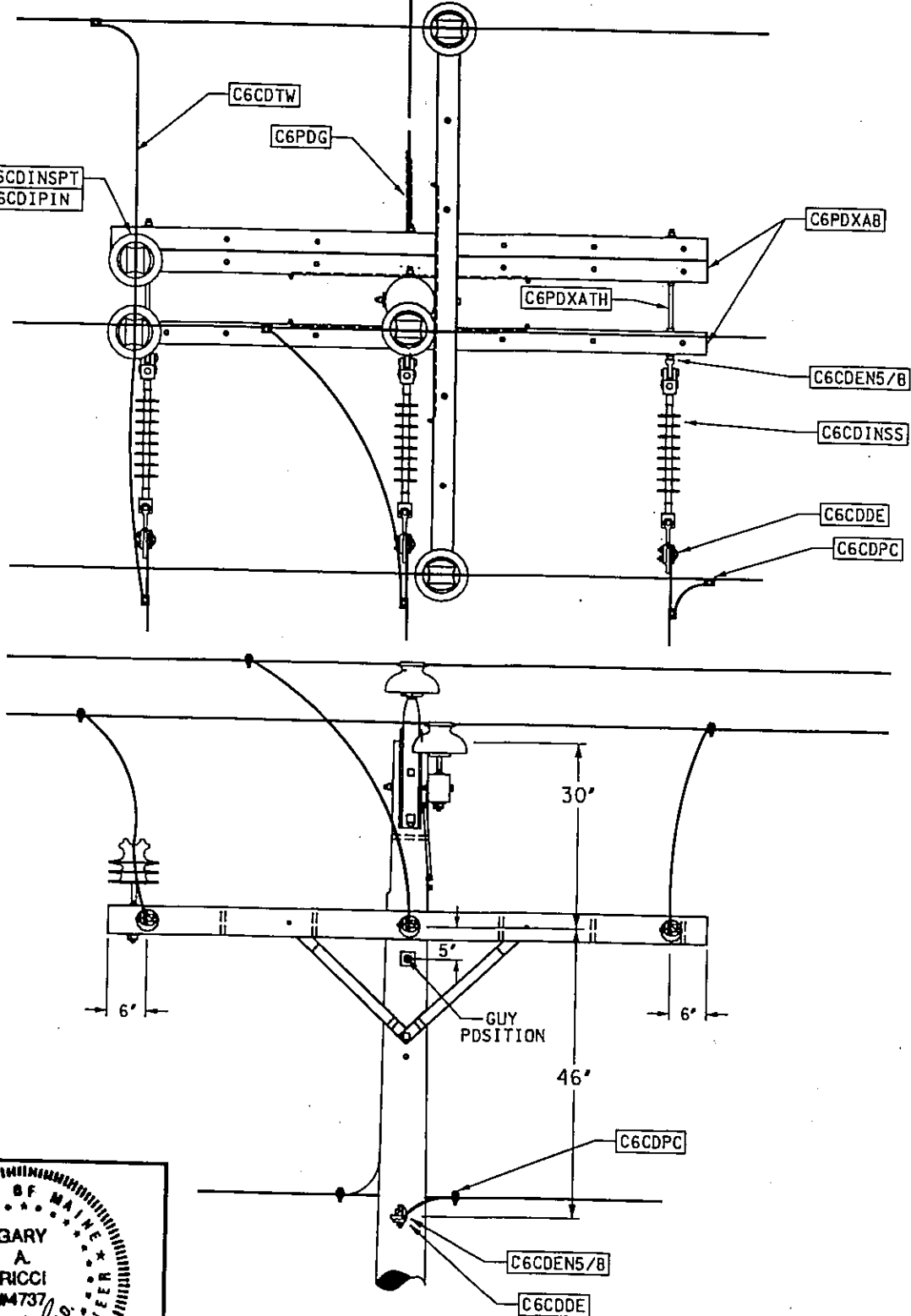
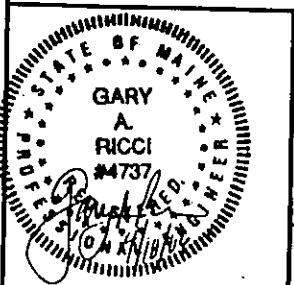
Refer to Guying
Section 309

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
08/31/01	12/29/05		



DESIGNED	ORIGINAL
DRAWN	GRG
DATE	7/16/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Matl	Description	Material ID
C6CDEE	4	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)
60001106XX			
C6CDEN5/8	4	EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP
6000273430			
		1	WSH 2 TURN SPR GALV 5/8
6000274600			
C6CDFCO	3	FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1	FUSED CUTOUT (SELECT FROM CUCT)
6000491XXX			
C6CDHS1/2	3	SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN
6000274320			
C6CDINSPT	2	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1	INSULATORS
6000310XXX			
C6CDINSS	3	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS
6000310XXX			
C6CDIPIN	2	INSULATOR PINS VARIOUS SIZES LOBBY	
		1	XARM PINS, USE APPROPRIATE SIZE
6000273XXX			
		1	WSH 2 TURN SPR GALV 5/8
6000274600			
C6CDLAMB	3	XARM MOUNTING BRACKET	
		1	BKT.EQUIP MTG CROSSARM
6000620100			
C6CDPC	2	CONNECTOR,PRIMARY	
		1	CONNECTORS
600011XXXX			
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)
6000250XXX			
C6PDG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)
60002527XX			
C6PDXA8	3	XARM, 6PINB, 8FT	
		1	XARM 6PIN 8
6000740510			
C6PDXATH	1	XARM, TRIPLE, HARDWARE ONLY	
		4	B CARR GALV 3/8 X 5
6000270310			
		3	BOLT, SPACE, 5/8 IN. ALL SIZES
600027217X			
		2	B LAG GALV FET 1/2 X 4
6000272540			
		4	BRACE XARM 28 IN
6000272670			
		13	WASHER,SQUARE,GALVANIZED ALL SIZES
60002748XX			
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES
6000274XXX			

MACRO
C6MC3TXF12

DESCRIPTION
3 PH TRIPLE XARM TAP FUSED FROM 12KV

PAGE
313-8B

3000* MAXIMUM LINE TENSION
SEE 313-6B FOR 2000*

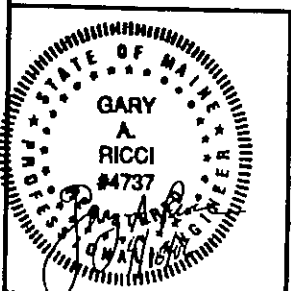
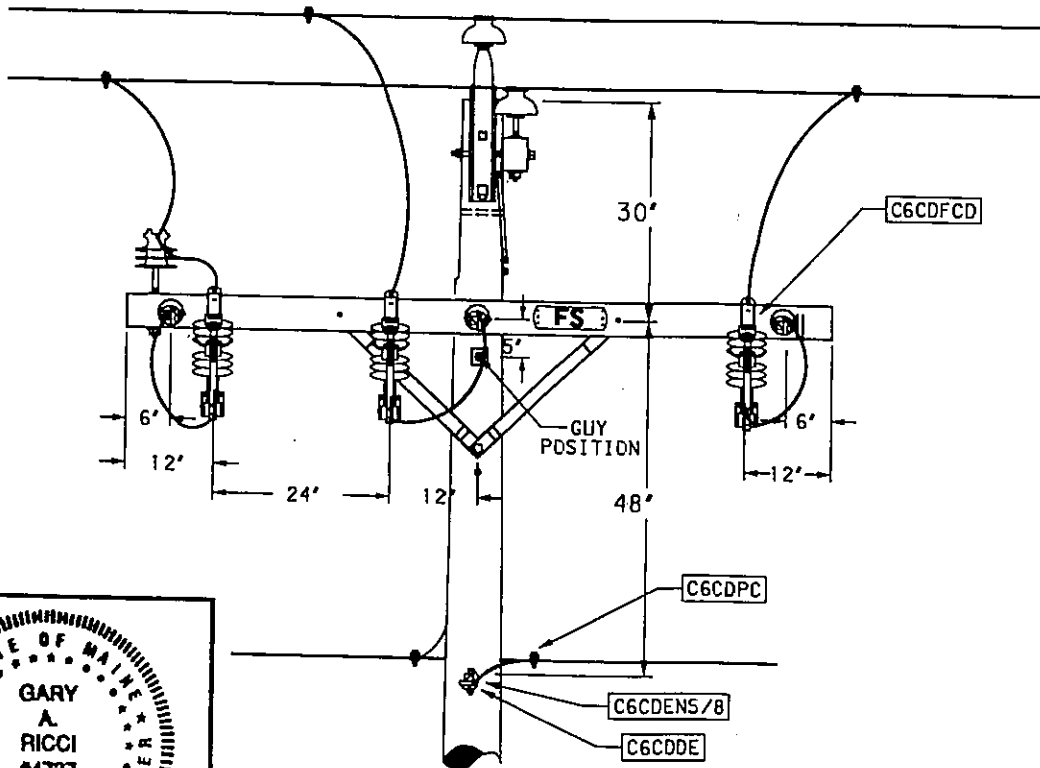
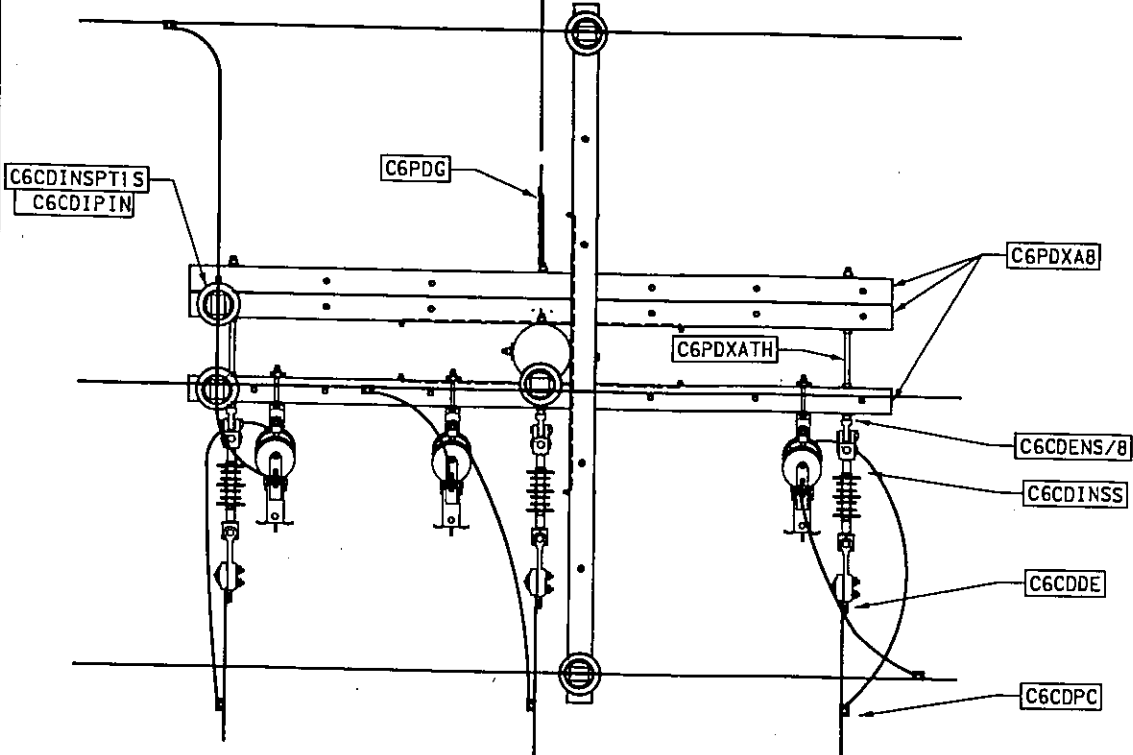
Refer to Guying
Section 309

DESIGNED	CS	REVIS	CS	REVISED
DRAWN	REC	REC	REC	REVISED
DATE	08/31/01	12/29/05		



DESIGNED	GRG	ORIGINAL
DRAWN		
DATE	6/25/93	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 313-9A

3 PH SINGLE XARM OFFSET STRUCTURE

Macro: C6MC3SXO

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	3	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIPIN	3	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDXA8	1	XARM, 6PINB, 8FT	
		XARM 6PIN 8	6000740510
C6PDXASH	1	XARM, SINGLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3SX0

DESCRIPTION
3 PH SINGLE XARM OFFSET STRUCTURE

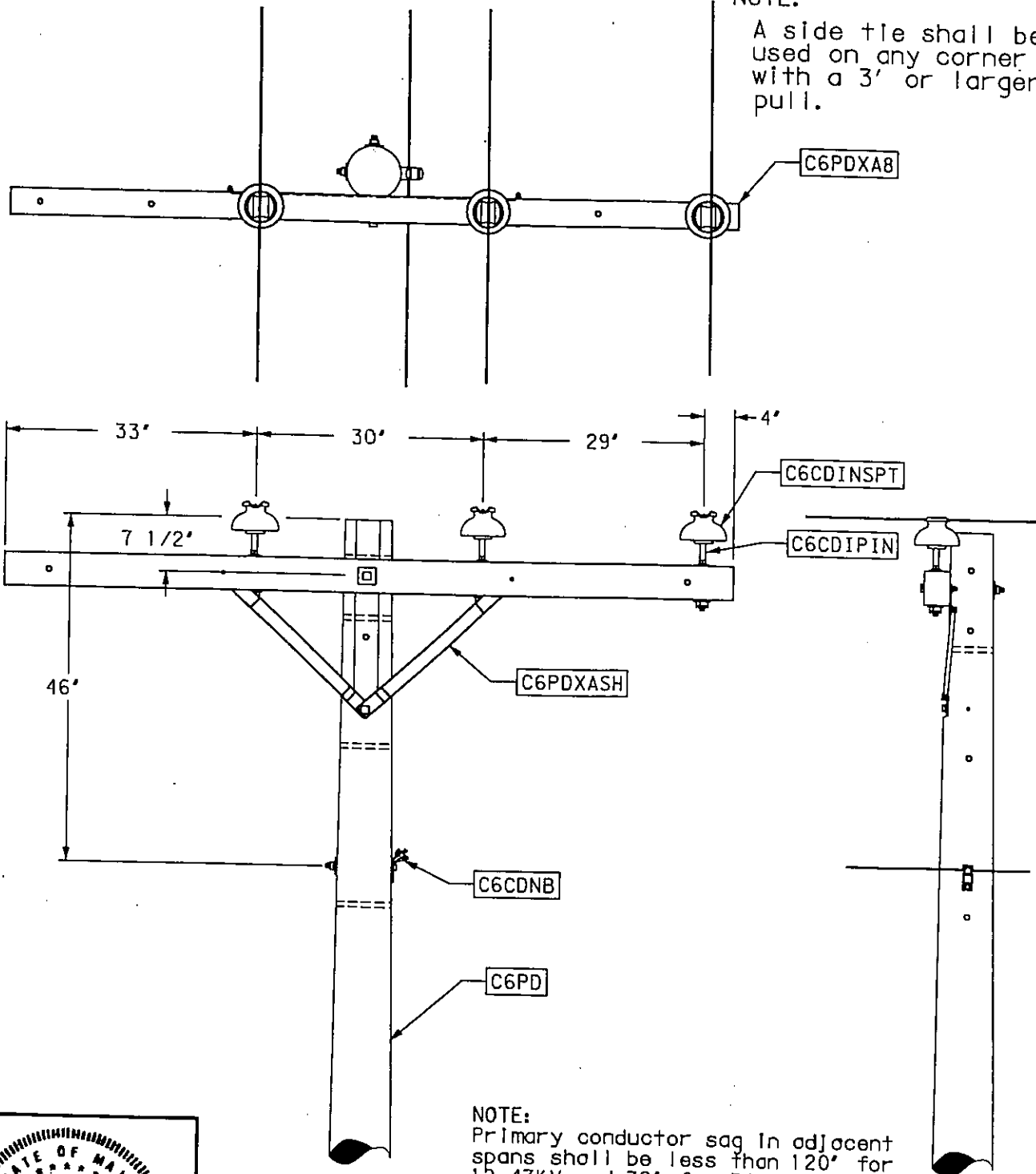
PAGE
313-9B

Not to exceed 6 Ft. Corner at 2000* line tension
Not to exceed 5 Ft. Corner at 3000* line tension

NOTE:

A side tie shall be used on any corner with a 3' or larger pull.

DESIGNED	REVISOR	REVISION	DATE
DRAWN	REC	REC	
DATE	10/05/01	12/19/05	

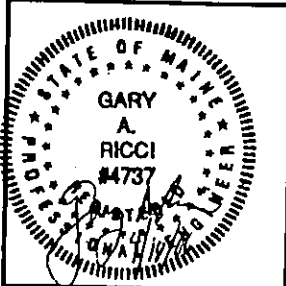


NOTE:
Primary conductor sag in adjacent spans shall be less than 120' for 12.47KV and 72' for 34.5KV.



DESIGNED	GRG
DRAWN	DATE
DATE	4/17/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	6	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDXA8	2	XARM, 6PINB, 8FT	
		XARM 6PIN 8	6000740510
C6PDXAAB	2	XARM, ALLEY, BRACE WOOD (BRACE ONLY)	
		BRACE ALLEY WD 8FT 3IN	6000272630
C6PDXAADH	1	XARM, ALLEY, DOUBLE, HARDWARE ONLY	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3AA

DESCRIPTION
3PH ALLEY ARM STRUCTURE

PAGE
313-10B

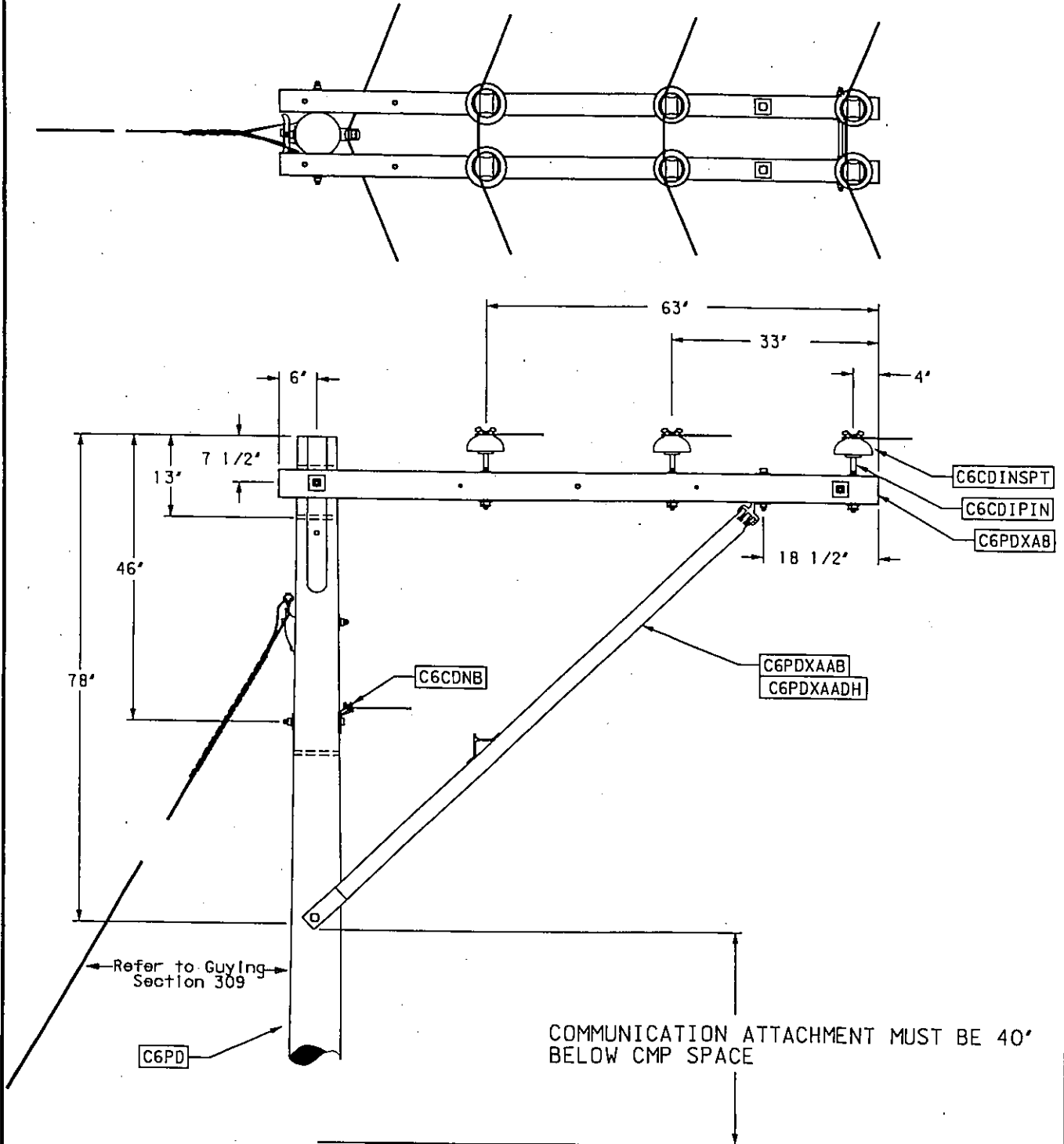
Up to 15 Ft. Corner at 2000* line tension

DESIGNED	REVISOR	REVISION	DATE
CS	CS		
REC	REC		
DATE	10/05/01	03/14/06	

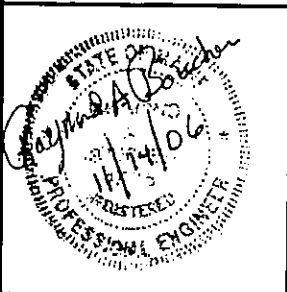


DESIGNED	GRG	DATE
3/4/93		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



NOTE:
Primary conductor sag in adjacent spans shall be less than 120' for 12.47KV and 72' for 34.5KV.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	3	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDNB	1	NEUTRAL BRACKET STEEL	
		4 TIE WIRE AL LOBBY	6000205XXX
		1 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		1 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT NEUTRAL CLAMP STEEL	6000620230
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6POA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXAAF	1	XARM, ALLEY, 3PH FIBERGLASS WITH BRACE	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1 BRACKET, ALLEY ARM, 3 PH FIBERGLASS	6000272700
		2 WASHER, SQUARE, GALVANIZEO ALL SIZES	60002748XX
		2 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PDXAAFPEP	1	FIBERGLASS ALLEY BRACE POLE EYE PLATE	
		1 PLATE GUY ATT FG INS	6000251800
		1 BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		2 B LAG GALV FET 1/2 X 4	6000272540
		1 WSH 2 TURN SPR GALV 3/4	6000274610
		1 WASHER 3"X 4" CURVED FOR 3/4" BOLT	6000274850

MACRO
C6MC3AAF-15

DESCRIPTION
3 PH FIBERGLASS ALLEY ARM STRUCTURE
UP TO 15FT CORNER

PAGE
313-11B

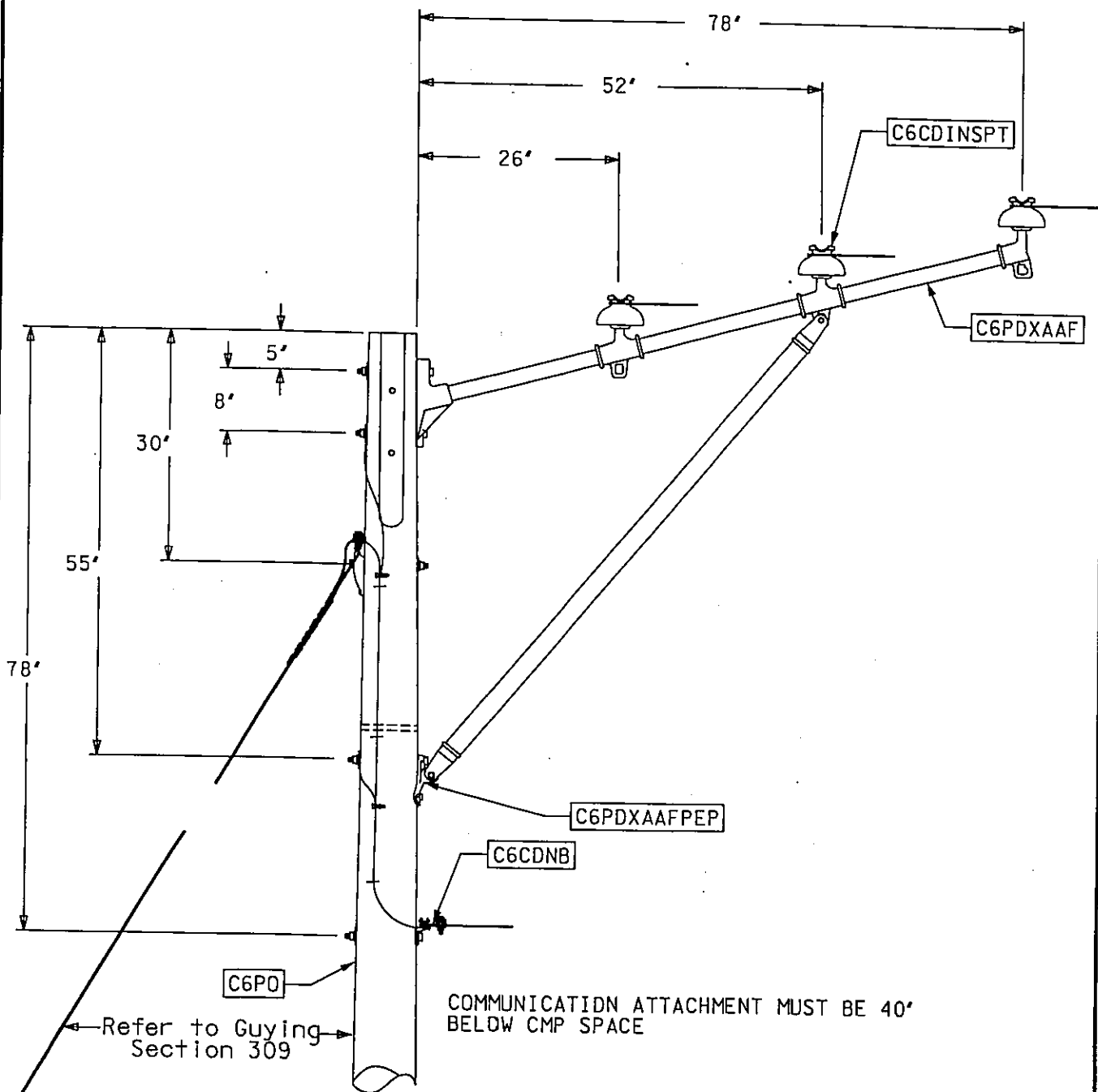
up to 15ft. corner 2000* line tension

DESIGNED	JEC	REVISOR	CS	REVISION	CS
DRAWN	GRG	REVISOR	REC	REVISION	REC
DATE	3/17/94	DATE	09/05/01	DATE	10/18/06



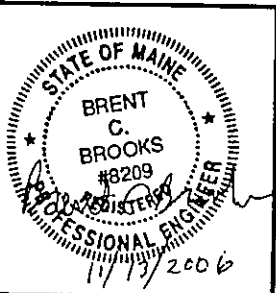
DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	2/22/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



COMMUNICATION ATTACHMENT MUST BE 40'
BELOW CMP SPACE

NOTE:
Primary conductor sag in adjacent
spans shall be less than 96' for
12.47KV and 48' for 34.5KV.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	5	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1 INSULATORS	6000310XXX
C6CDIPIN	4	INSULATOR PINS VARIOUS SIZES LOBBY	
		1 XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		4 TIE WIRE AL LOBBY	6000205XXX
		1 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		1 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1 POLE TOP PIN 24X1 3/8 INCH	6000274170
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		2 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA8	2	XARM, 6PINB, 8FT	
		1 XARM 6PIN 8	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 28 IN	6000272670
		10 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

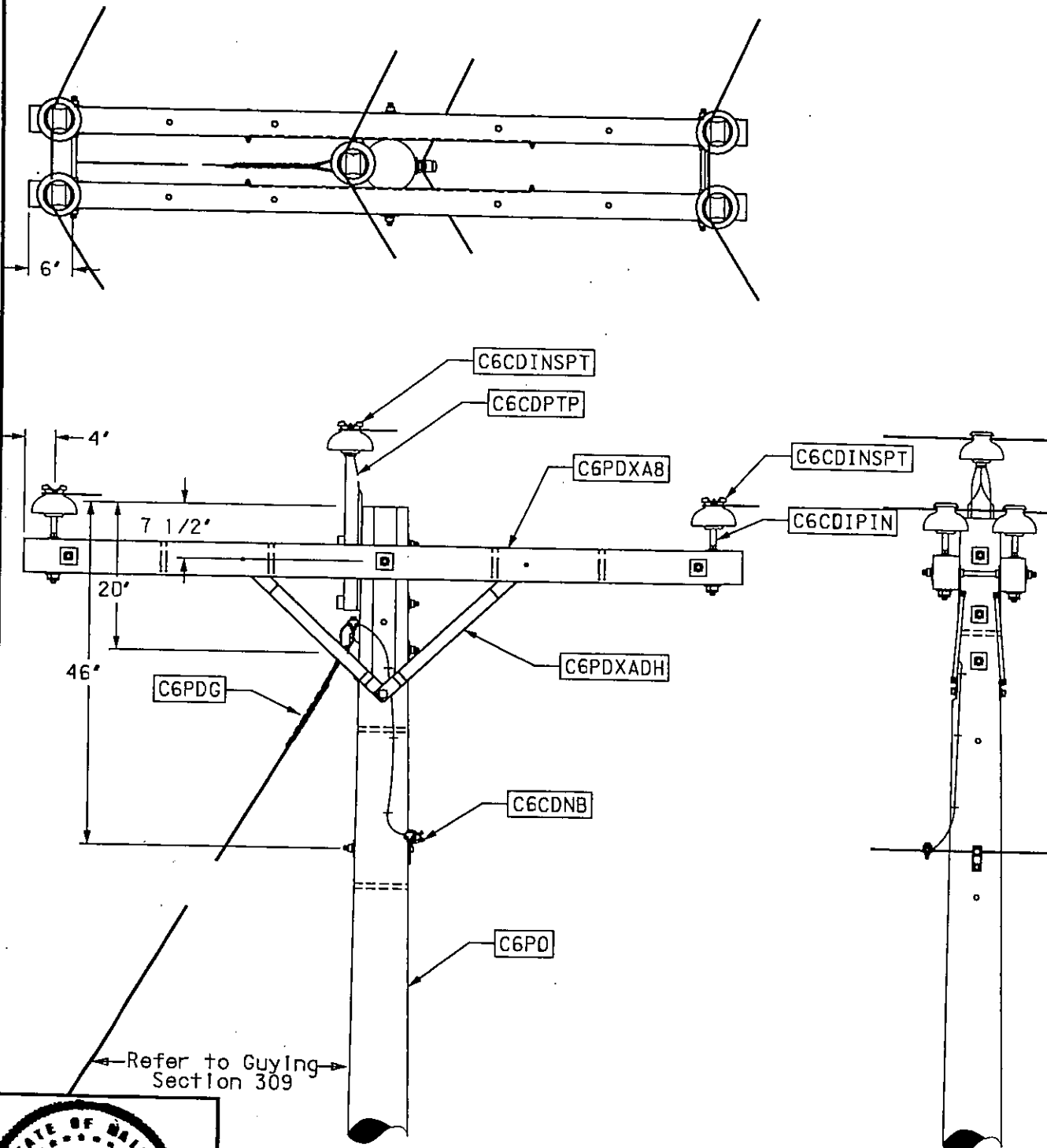
MACRO
C6MC3DX6-25

DESCRIPTION
3 PH DOUBLE XARM UP TO 25FT. CORNER

PAGE
313-12B

6-25 FT. CORNER AT 2000* LINE TENSION
6-15 FT. CORNER AT 3000* LINE TENSION

DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	12/20/05	



ORIGINAL	DESIGNED	DATE
CRG	CRG	4/17/93
DRAWN	DRAWN	
DATE	DATE	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	5	INSULATOR PIN TYPE GENERIC (SELECT FROM	
	1	INSULATORS	6000310XXX
C6CDIPIN	4	INSULATOR PINS VARIOUS SIZES LOBBY	
	1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
	1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
	4	TIE WIRE AL LOBBY	6000205XXX
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	1	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	POLE TOP PIN 24X1 3/8 INCH	6000274170
	2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	2	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PD1EXT	1	POLETOP FIBERGLASS EXTENSION, 60 IN	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	POLE TOP EXT 60IN FIBER	6000274218
	2	WSH 2 TURN SPR GALV 5/8	6000274600
C6PDA	1	ANCHQR, GENERIC (SELECT FROM CUCT)	
	1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDFGPTXADH	1	FG POLE TOP EXT XARM DBLE, HARDWARE ONLY	
	4	B CARR GALV 3/8 X 5	6000270310
	1	BOLT, THRU 1/2 IN. ALL LENGTHS	600027205X
	3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
	4	BRACE XARM 28 IN	6000272670
	2	GAIN XARM 8 FT.	6000273185
	10	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	10	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
	1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6POXA8	2	XARM, 6PINB, 8FT	
	1	XARM 6PIN 8	6000740510

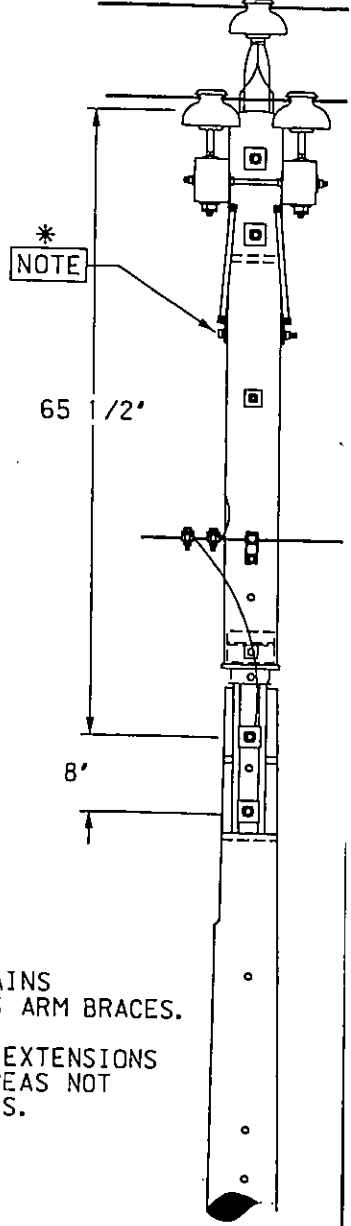
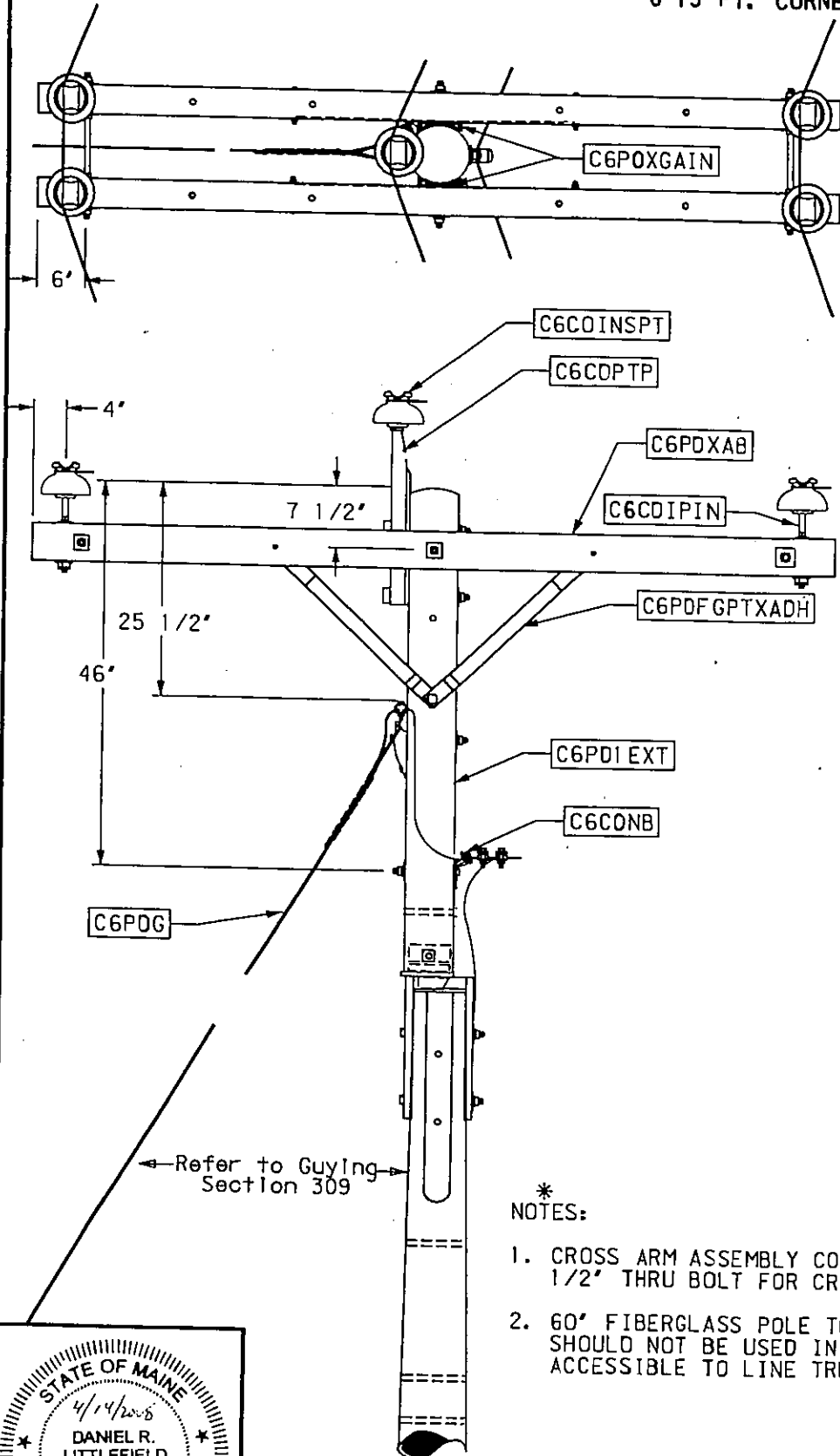
MACRO
C6MP3PTE6-25

DESCRIPTION
3 PH POLE TOP EXTENSION F/G DOUBLE ARM

PAGE
313-13B

6-25 FT. CORNER AT 2000* LINE TENSION
6-15 FT. CORNER AT 3000* LINE TENSION

NO.	REVISION	DATE	CHK.
1	Added note 2 for 60' pole extension	04/14/08	WZ



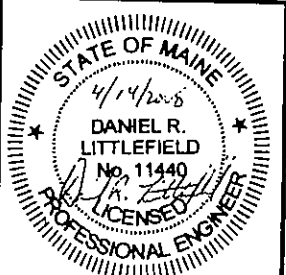
* NOTES:

1. CROSS ARM ASSEMBLY CONTAINS 1/2" THRU BOLT FOR CROSS ARM BRACES.
2. 60' FIBERGLASS POLE TOP EXTENSIONS SHOULD NOT BE USED IN AREAS NOT ACCESSIBLE TO LINE TRUCKS.



ORIGINAL	DESIGNED	DATE
CRG	CRG	5/28/93
DRAWN		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

Page 313-14A 3 PH DOUBLE XARM OFFSET

Macro: C6MC3DXO

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	6	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA8	2	XARM, 6PINB, 8FT	
		XARM 6PIN 8	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

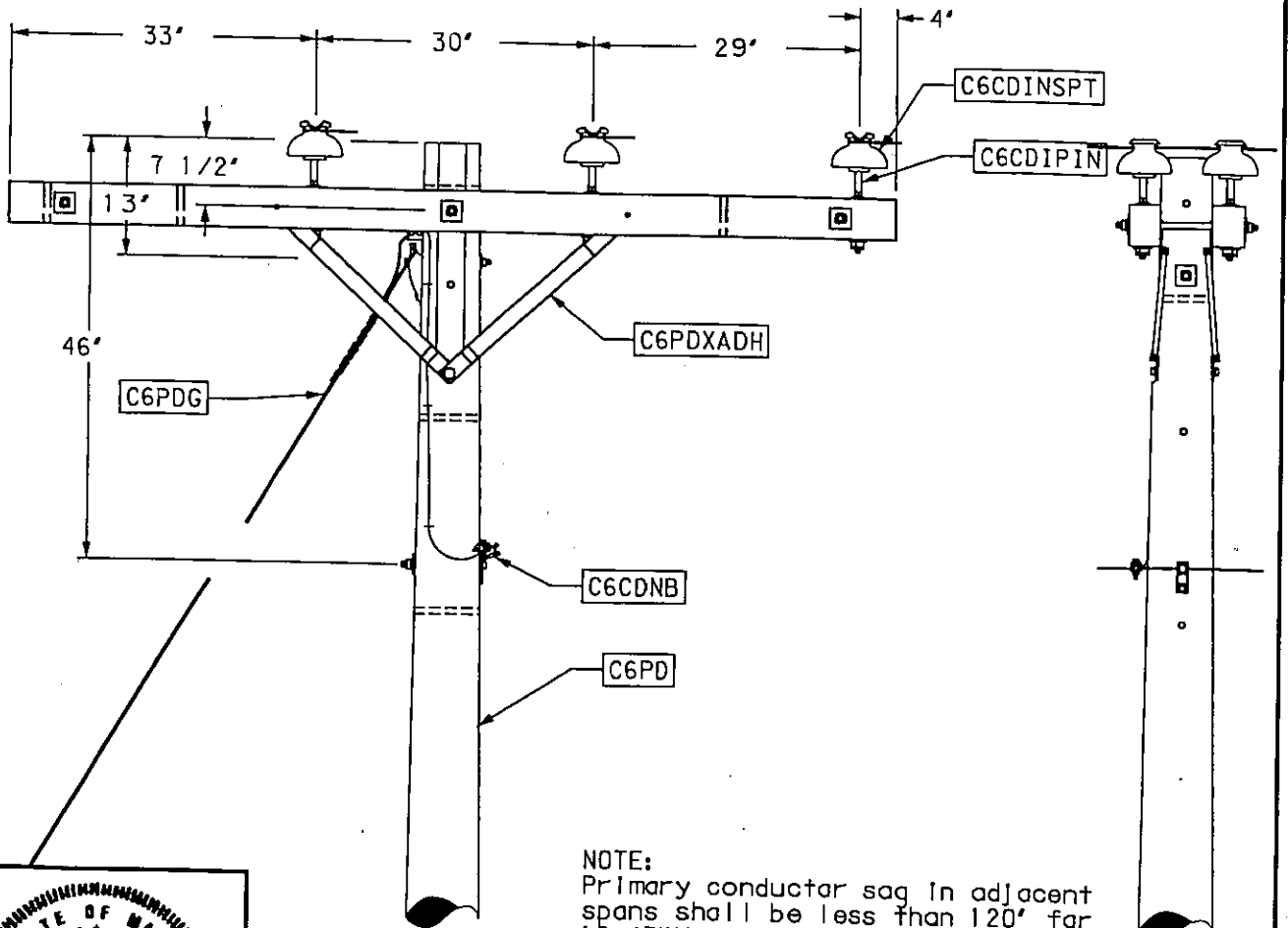
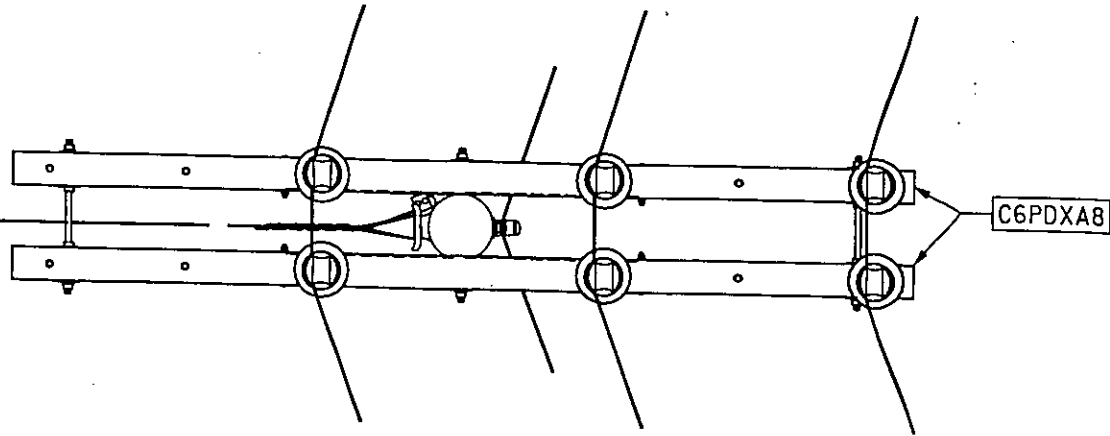
MACRO
C6MC3DX0

DESCRIPTION
3PH DOUBLE XARM OFFSET

PAGE
313-14B

6 - 25 Ft. Corner at 2000* line tension
5 - 15 Ft. Corner at 3000* line tension

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	12/29/05	

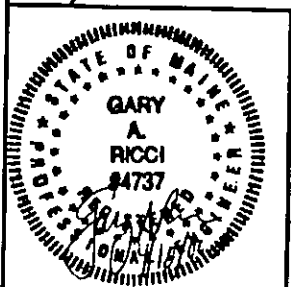


NOTE:
Primary conductor sag in adjacent spans shall be less than 120' for 12.47KV and 72' for 34.5KV.



DESIGNED	ORIGINAL
DRAWN	GRG
DATE	2/22/93

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDEB5/8	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDINSPT	6	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1 INSULATORS	6000310XXX
C6CDIPINA	6	INSULATOR PIN ANGLE BRACKET 1INCH	
		1 PIN ANGLE BRACKET 1 IN	6000273874
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		1 WSHFLT GALVSQ2 1/4X3/16	6000274810
		1 BOLT 5/8" X 7" MACH GALV W/ NUT	703061
C6CQSSC	1	SEMI STRAIN CLAMP	
		1 SEMI STRAIN CLAMP ALUM OR GALV. STEEL	60001113XX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA10	2	XARM, 8PINB, 10 FT	
		1 XARM 8 PIN B	6000740540
C6PDXA0H	1	XARM, DOUBLE, HARDWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 28 IN	6000272670
		10 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

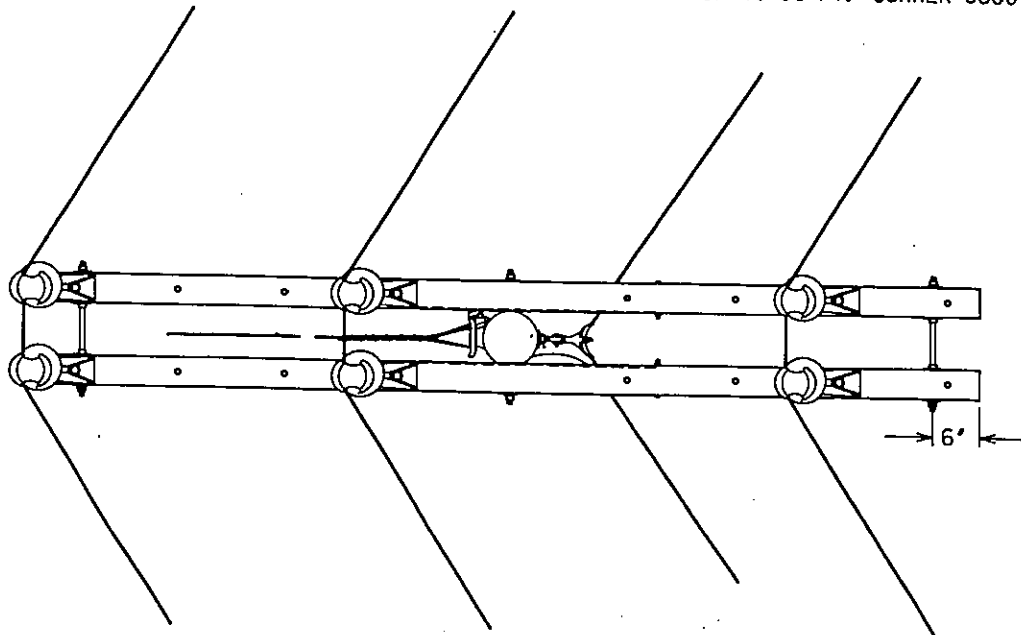
MACRO
C6MC3DXAP

DESCRIPTION
3 PH DOUBLE XARM ANGLE PIN

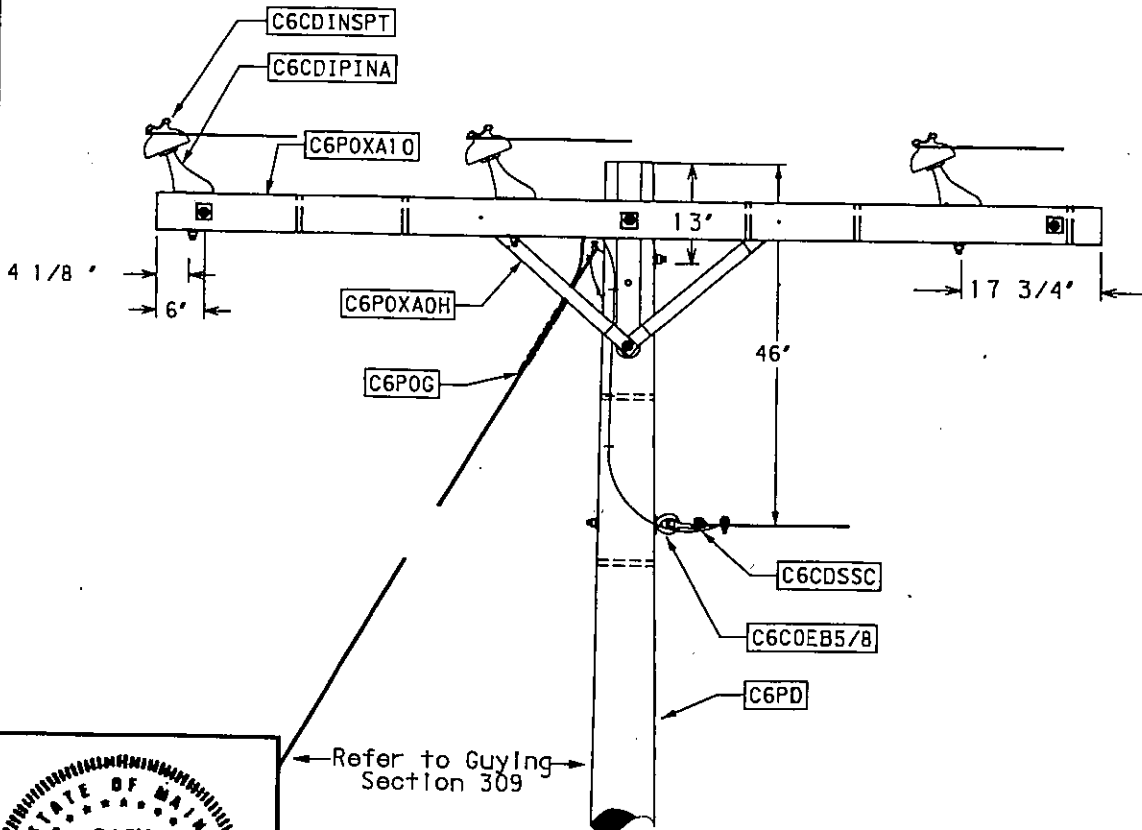
PAGE
313-15B

UP TO 50 FT. CORNER 2000* LINE TENSION
UP TO 30 FT. CORNER 3000* LINE TENSION

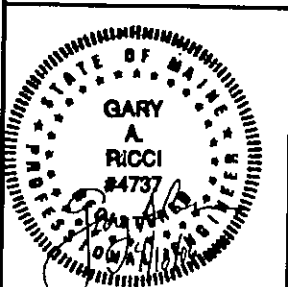
DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	
DATE	REC	REC	
	08/23/01	12/21/05	



ORIGINAL	GRG
DESIGNED	
DRAWN	
DATE	4/13/93



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

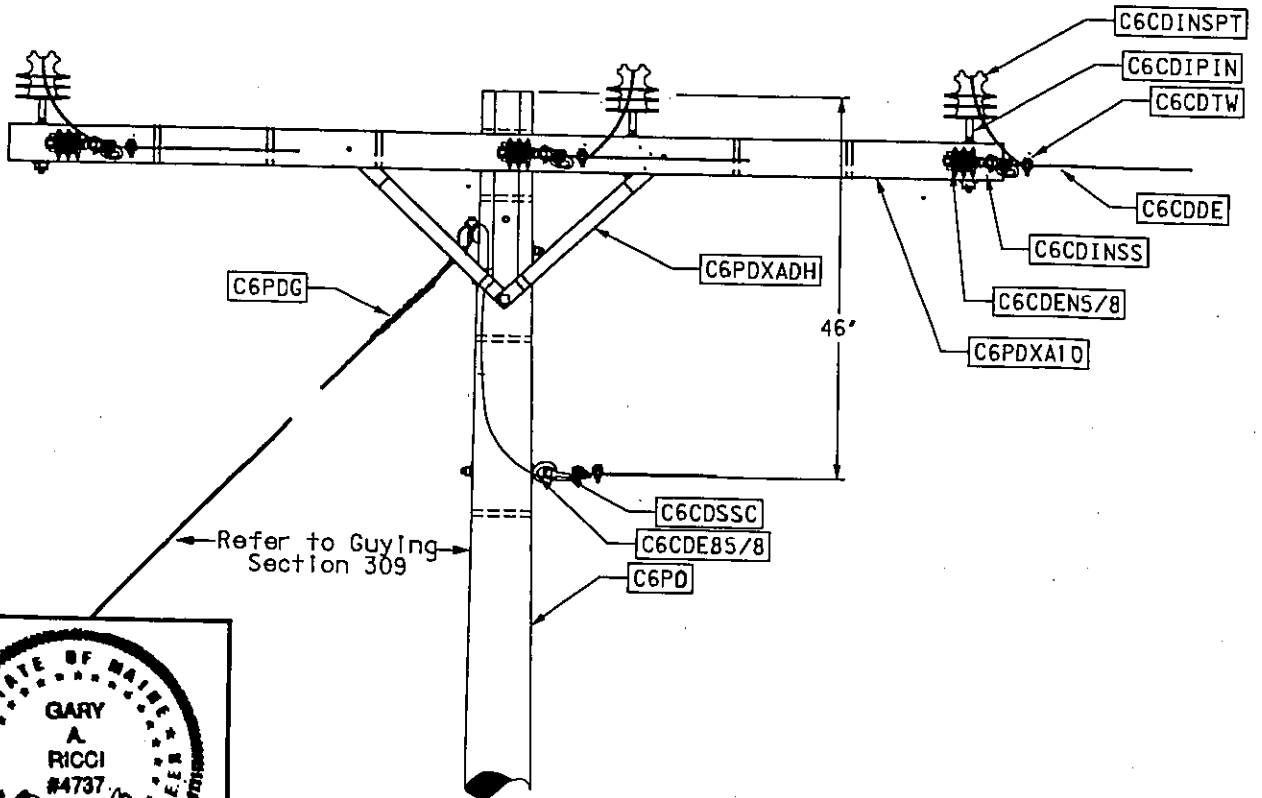
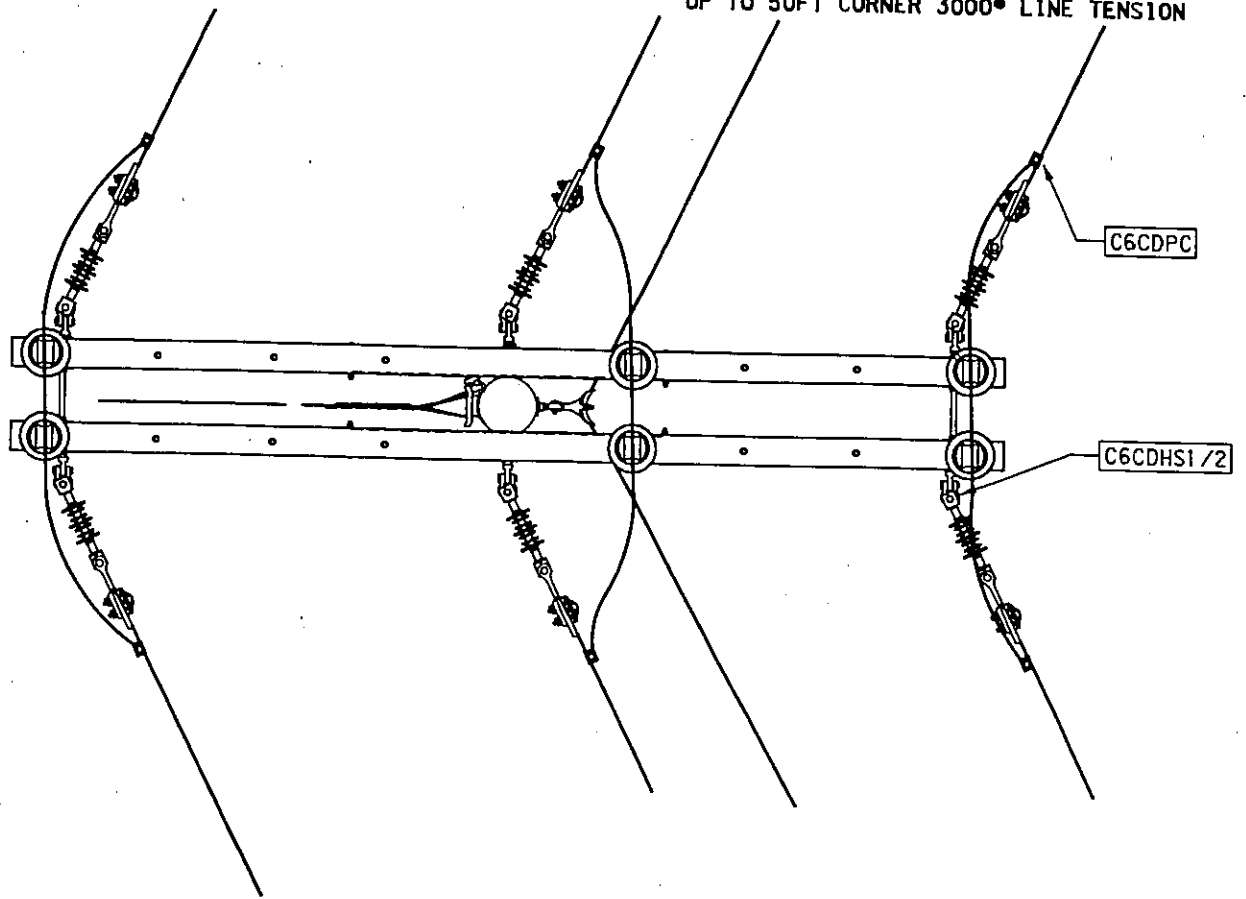
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	6	DEADEND COND GENERIC (SELECT FROM CUCT)	
	1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
	1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	6	EYE NUT ROUND 5/8 INCH	
	1	NUT EYE ROUND 5/8 TAP	6000273430
	1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	6	SHACKLE 1/2IN W 5/8IN PIN	
	1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSPT	8	INSULATOR PIN TYPE GENERIC (SELECT FROM	
	1	INSULATORS	6000310XXX
C6CDINSS	6	INS DEADEND GENERIC (SELECT FROM CUCT)	
	1	INSULATORS	6000310XXX
C8CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
	1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
	1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDPC	6	CONNECTOR,PRIMARY	
	1	CONNECTORS	600011XXXX
C6CDSSC	1	SEMI STRAIN CLAMP	
	1	SEMI STRAIN CLAMP ALUM OR GALV. STEEL	60001113XX
C6CDTW	30	TAPWIRE GENERIC (SELECT FROM CUCT)	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
	1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
	1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)	
	1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA10	2	XARM, 8PINB, 10 FT.	
	1	XARM 8 PIN B	6000740540
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
	4	B CARR GALV 3/8 X 5	6000270310
	3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
	2	B LAG GALV FET 1/2 X 4	6000272540
	4	BRACE XARM 28 IN	6000272670
	10	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
	9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3DDEA

DESCRIPTION
3 PH DOUBLE DEADEND ANGLE

PAGE
313-16B

UP TO 50FT CORNER 3000° LINE TENSION

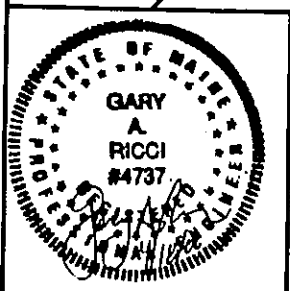


DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	2/29/05	



DESIGNED	ORIGINAL
DRAWN	GRG
DATE	4/17/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	8	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1 DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	2	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	6	EYE NUT ROUND 5/8 INCH	
		1 NUT EYE ROUND 5/8 TAP	6000273430
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	6	SHACKLE 1/2IN W 5/8IN PIN	
		1 SHACKLE 1/2 IN W5/8PIN	6000274320
C6CDINSPT	4	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1 INSULATORS	6000310XXX
C6CDINSS	6	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1 INSULATORS	6000310XXX
C6CDIPIN	4	INSULATOR PINS VARIOUS SIZES LOBBY	
		1 XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6COPC	7	CONNECTOR,PRIMARY	
		1 CONNECTORS	600011XXXX
C6CDTW	25	TAPWIRE GENERIC (SELECT FROM CUCT)	
		1 TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PO	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	2	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	2	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 308-6)	60002527XX
C6POXA8	4	XARM, 6PINB, 8FT	
		1 XARM 6PIN 8	6000740510
C6PDXADH	2	XARM, DOUBLE, HARDWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 28 IN	6000272670
		10 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		9 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3DXBUCK

DESCRIPTION
3 PH DOUBLE BUCKARMS OVER 50 FT CORNER

PAGE
313-17B

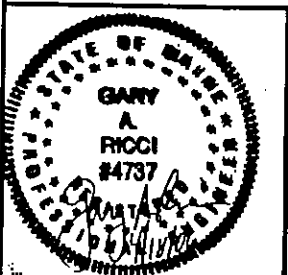
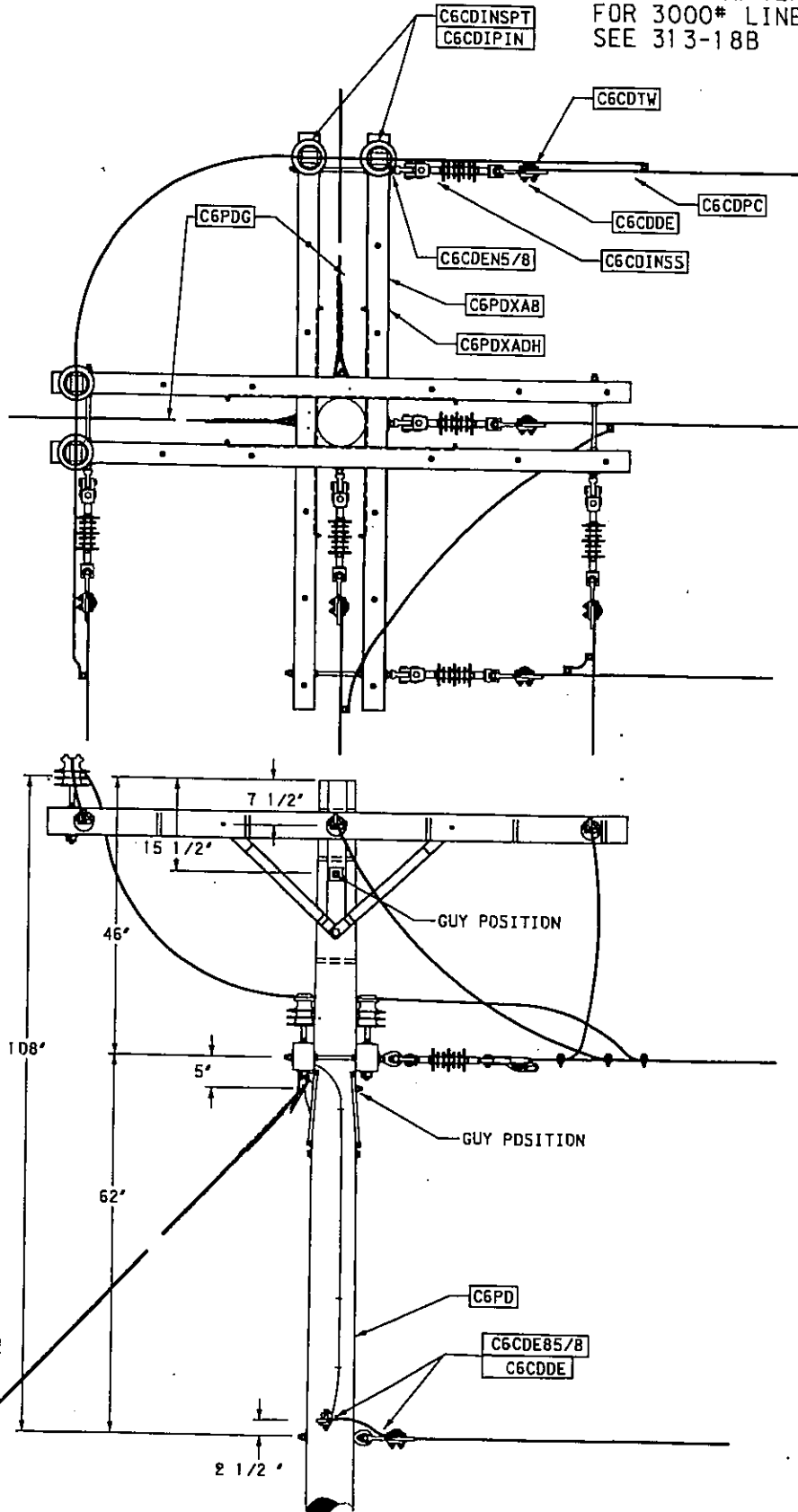
2000* LINE TENSION
FOR 3000* LINE TENSION
SEE 313-18B

DESIGNED	CS	REVIS	REVIS	REVIS
DRAWN	REC	REC	CS	REC
DATE	08/31/01	12/29/05		



DESIGNED	CRG	ORIGINAL
DRAWN		
DATE	4/13/93	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

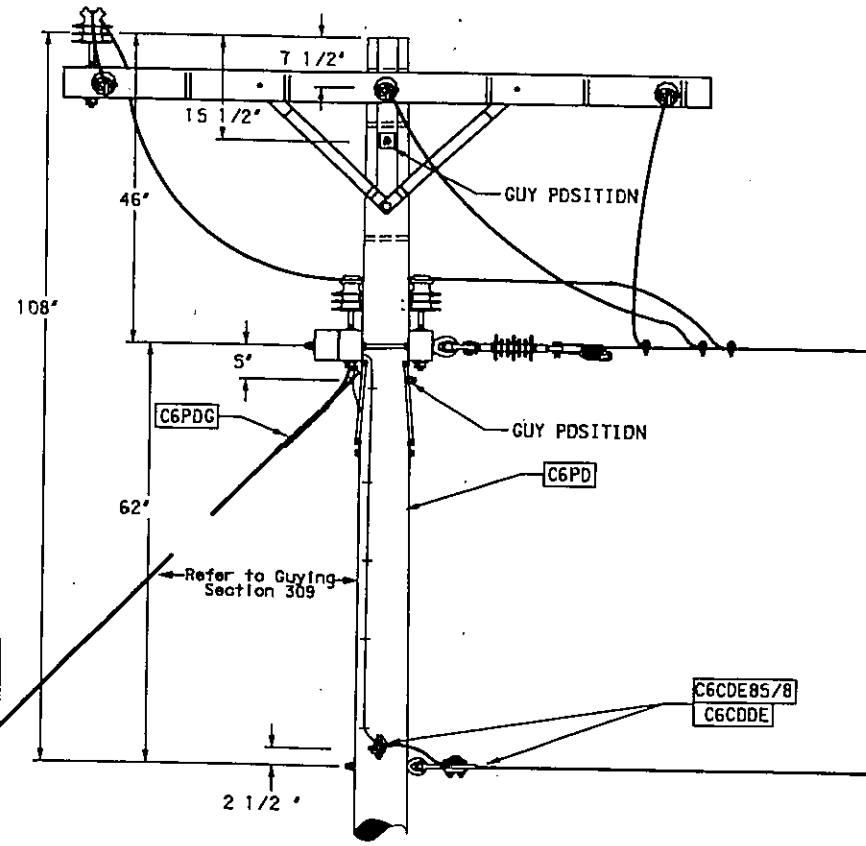
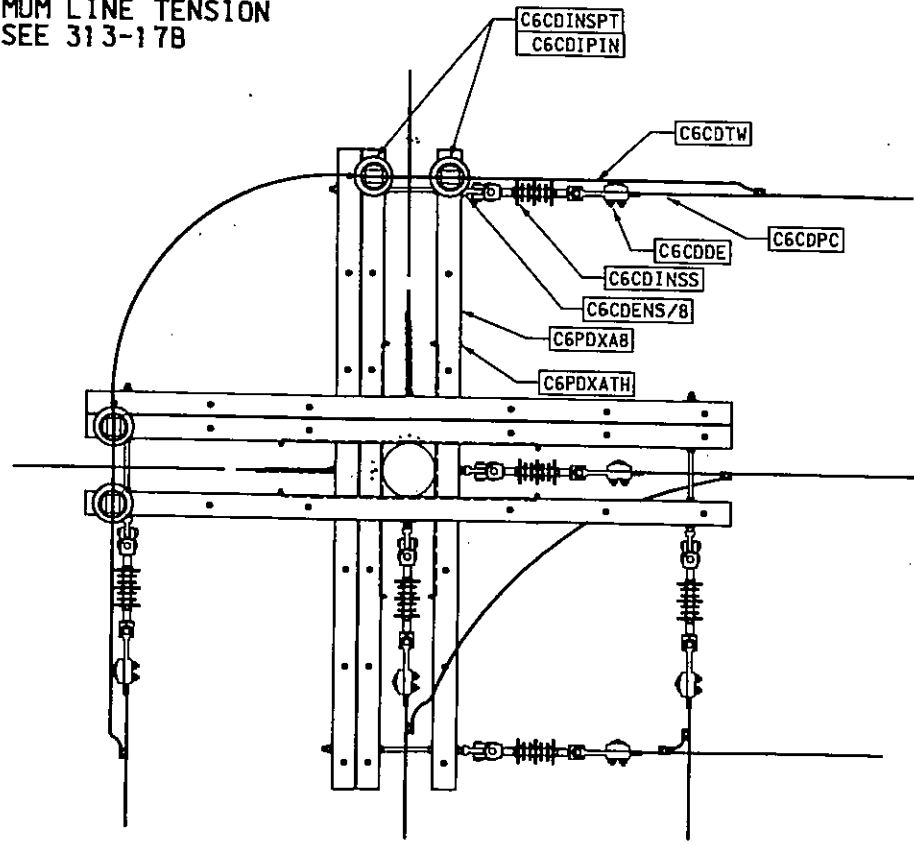
CU Number	Quantity - CU/Mat	Description	Material ID
C6C00E	8	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1 DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	2	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	6	EYE NUT ROUND 5/8 INCH	
		1 NUT EYE ROUND 5/8 TAP	6000273430
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	6	SHACKLE 1/2IN W 5/8IN PIN	
		1 SHACKLE 1/2 IN W5/8PIN	6000274320
C6CDINSPT	4	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1 INSULATORS	6000310XXX
C6CDINSS	6	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1 INSULATORS	6000310XXX
C6CDIPIN	4	INSULATOR PINS VARIOUS SIZES LOBBY	
		1 XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDPC	7	CONNECTOR,PRIMARY	
		1 CONNECTORS	600011XXXX
C6C0TW	25	TAPWIRE GENERIC (SELECT FROM CUCT)	
		1 TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PQA	2	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	8000250XXX
C6PDG	2	GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA8	6	XARM, 6PINB, 8FT	
		1 XARM 6PIN 8	6000740510
C6PDXATH	2	XARM, TRIPLE, HARWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 28 IN	6000272670
		13 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		9 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3TXBUCK

DESCRIPTION
3PH TRIPLE ARM BUCKARM OVER 50FT CORNER

PAGE
313-18B

3000* MAXIMUM LINE TENSION
FOR 2000* SEE 313-17B

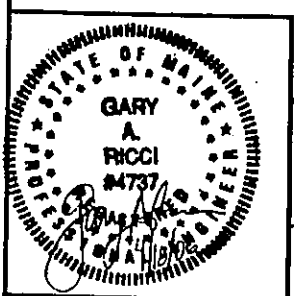


DESIGNED	CS	REVISOR	CS
DRAWN	REC	REVISION	REC
DATE	08/31/01	DATE	12/21/05



DESIGNED	GRG	DATE	5/17/93
DRAWN			

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	4	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1 DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	3	EYE NUT ROUND 5/8 INCH	
		1 NUT EYE ROUND 5/8 TAP	6000273430
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	3	SHACKLE 1/2IN W 5/8IN PIN	
		1 SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	3	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1 INSULATORS	6000310XXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHDR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA8	2	XARM, 6PINB, 8FT	
		1 XARM 6PIN 8	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 28 IN	6000272670
		10 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3DE

DESCRIPTION
3 PH DEADEND STRUCTURE

PAGE
313-19B

200D* LINE TENSION
FDR 300D* LINE TENSION SEE PAGE 313-20B

Refer to Guying
Section 309

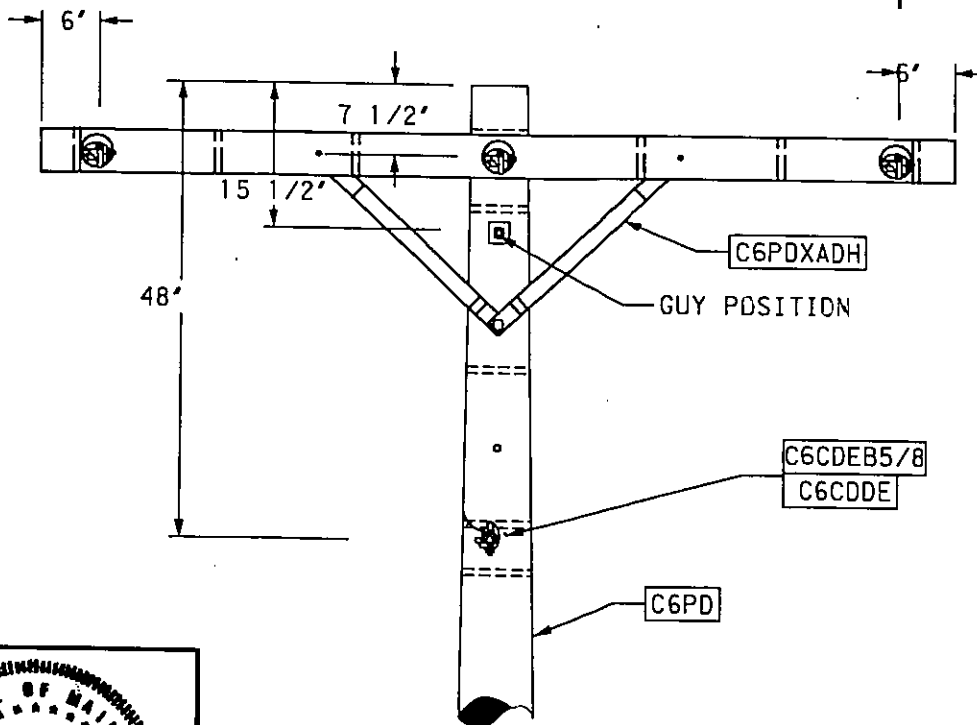
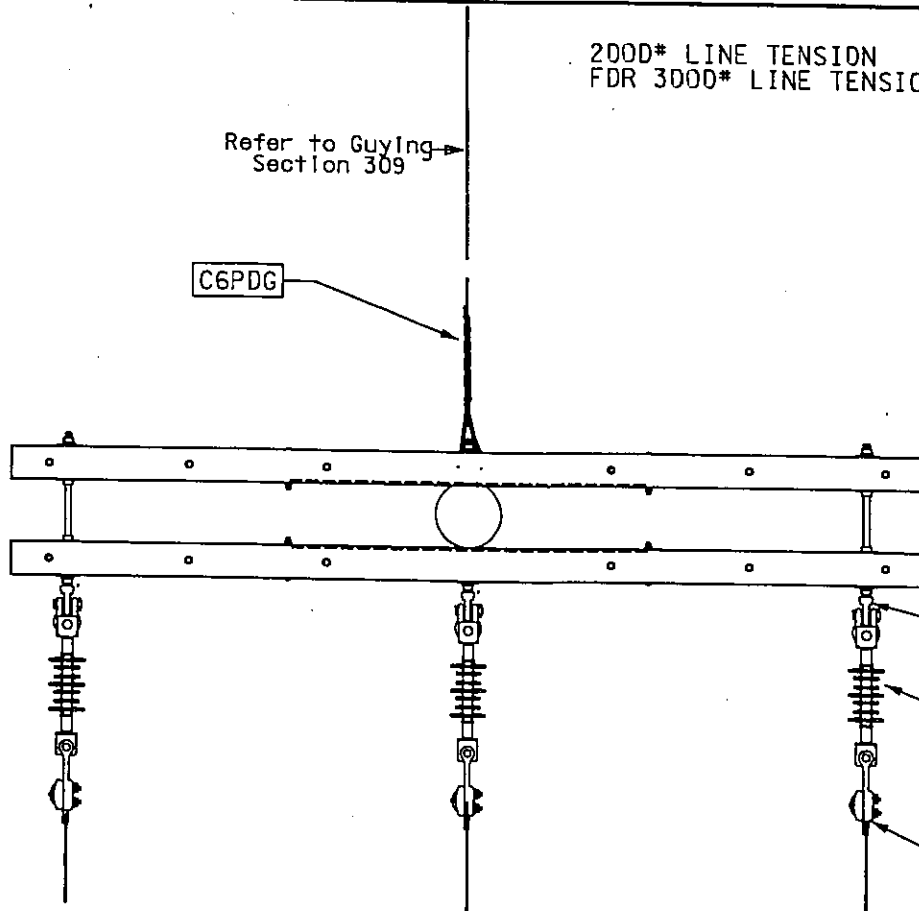
C6PDG

C6PDXA8

C6CDEN5/8

C6CDINSS

C6CDE

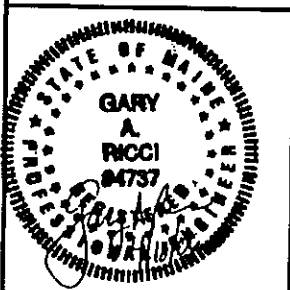


DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS	CS	08/31/01
DATE	REC	REC	12/21/05



DESIGNED	DATE
GRG	4/13/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

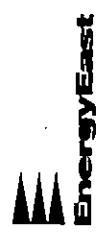
Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat		Description	Material ID
C6CODE	4		DEADEND COND GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1		EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	3		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	3		SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	3		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6PD	1		POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1		ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1		GUY,GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDXA8	3		XARM, 6PINB, 8FT	
		1	XARM 6PIN 8	6000740510
C6POXATH	1		XARM, TRIPLE, HARDWARE ONLY	
		4	B CARR GALV 3/8 X 5	6000270310
		3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2	B LAG GALV FET 1/2 X 4	6000272540
		4	BRACE XARM 28 IN	6000272670
		13	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

Refer to Guying
Section 309 →

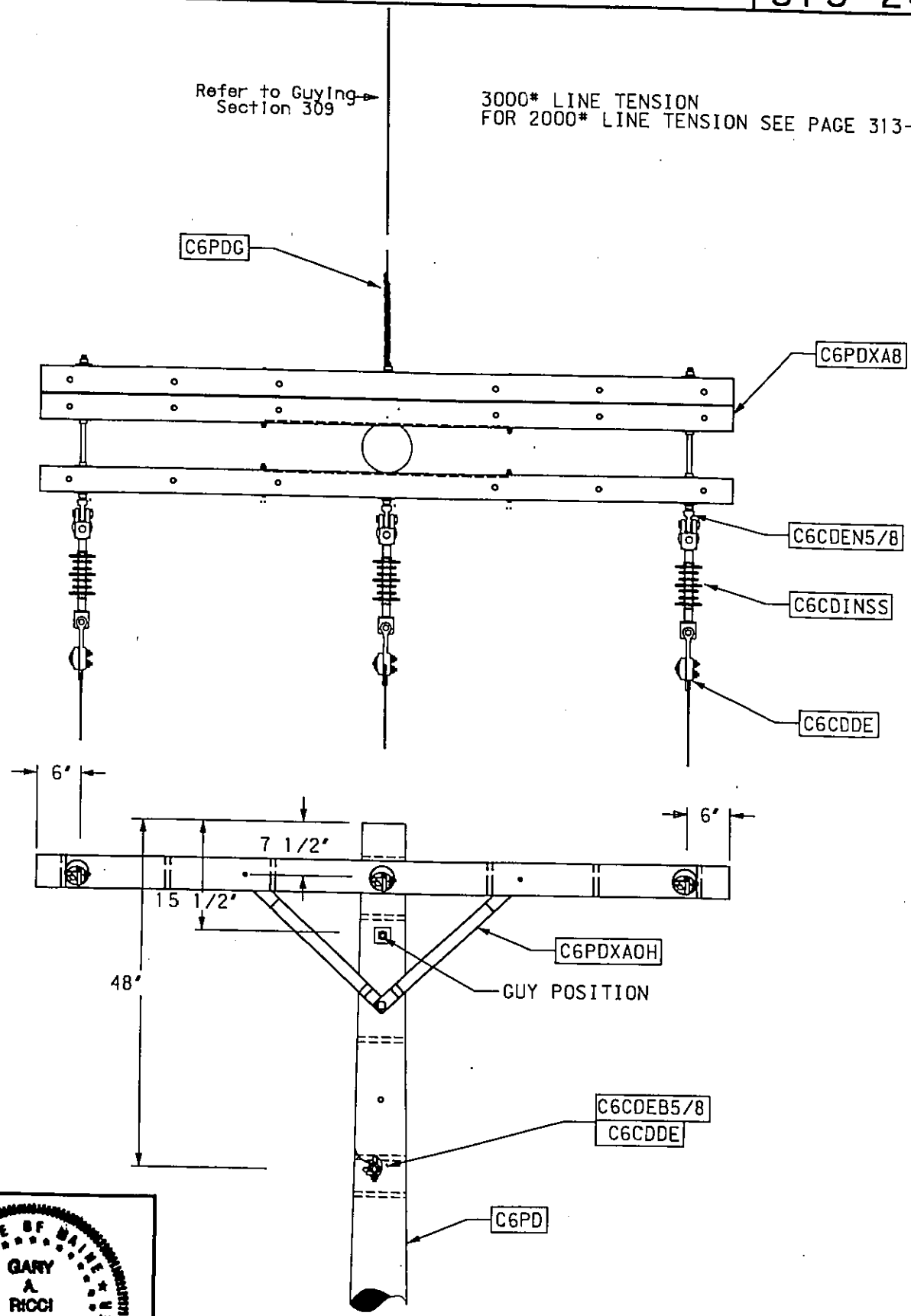
3000* LINE TENSION
FOR 2000* LINE TENSION SEE PAGE 313-19B

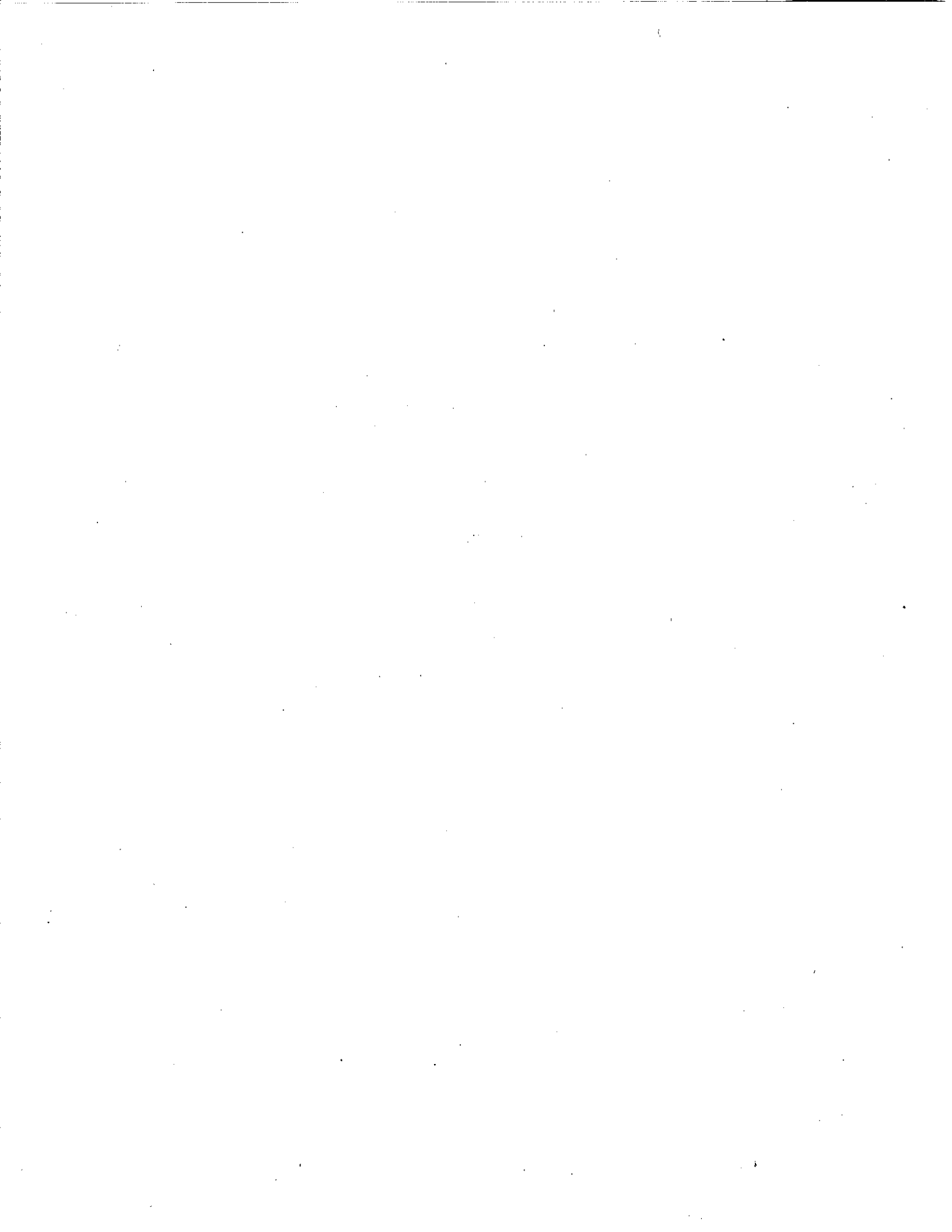
DESIGNED	CS	REVISED	REVISED	REVISED
DRAWN	REC	CS	CS	CS
DATE	08/31/01	REC	REC	REC
				11/2/21/05



ORIGINAL	GRG
DESIGNED	
DRAWN	
DATE	5/17/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY







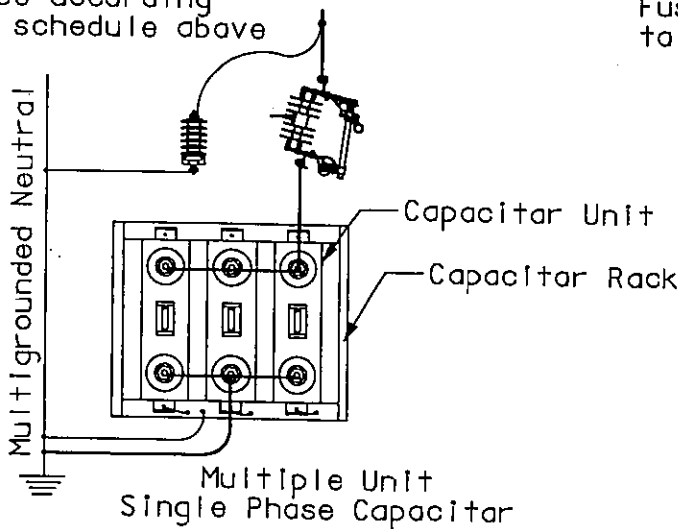


CAPACITOR FUSING SCHEDULE
SINGLE PHASE

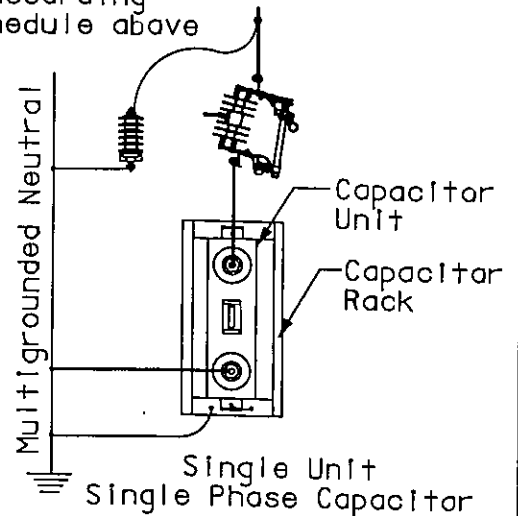
Capacitor Kvar	2400 V	7200 V	19,920 V
100	40T	15T	6T
150		25T	10T
200		40T	15T
300		65T	15T

No fuse larger than those recommended in the above table should be used without specific approval from the Distribution Field Engineer.

Fuse according to schedule above



Fuse according to schedule above



IMPORTANT: Ground capacitor tanks by bonding to the primary neutral.

CAUTION: After opening supply line to capacitors consider them alive until they are properly discharged.

The KVAR value of a multiple unit is equal to the sum of all the parallel connected capacitors that make up the multiple unit.

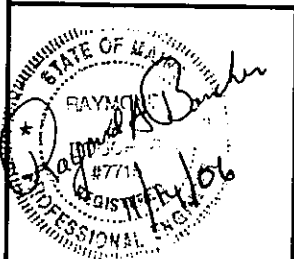
Example: The multiple unit shown above was built with three 100 KVAR units, the multiple unit value would be 300 KVAR.

DESIGNED	REVISOR	REVISION
DRAWN	CS	
DATE	REC	
	08/28/01	10/16/06



ORIGINAL	REVISOR	REVISION
DESIGNED	GRG	
DRAWN		
DATE		7/17/95

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6CDEMB	1	EDUIP MOUNTING BRACKET 18IN	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	1	BKT EQUIP MTG 18 IN	6000620140
C6KD1	1	CAPACITOR GENERIC 1PH	
	1	GENERIC CAPACITOR	6000480XXX
C6KDFCONLB100	1	CAPACITOR FUSED CUTOUT NON L/B 100A 15KV	
	2	CONNECTORS	600011XXXX
	10	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
	1	C/O N-L/B 100A 15KV	6000491800
	1	SIGN SWITCH HOLDER 4 H	6000825693
C6KDHANG1	1	CAPACITOR HANGER 1 UNIT, STEEL	
	1	HGR CAP 1 UNIT	6000481521
C6KDIP1P	1	CAPACITOR, INST PKG 1PH	
	1	CONNECTORS	600011XXXX
	5	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	8000207360
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WSHFLT GALVSQ2 1/4X3/16	6000274810
	1	WILDLIFE PROTECTOR	60003128XX
	5	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6KDLA9	1	CAPACITOR LIGHTNING ARRESTOR 10KV	
	2	CONNECTDRS	600011XXXX
	3	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
	4	STAPLES GALV F/4 GRD WR	6000274402
	1	WILDLIFE PROTECTOR	60003128XX
	1	ARR DIST 10KV	6000490060
	3	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MK1PT

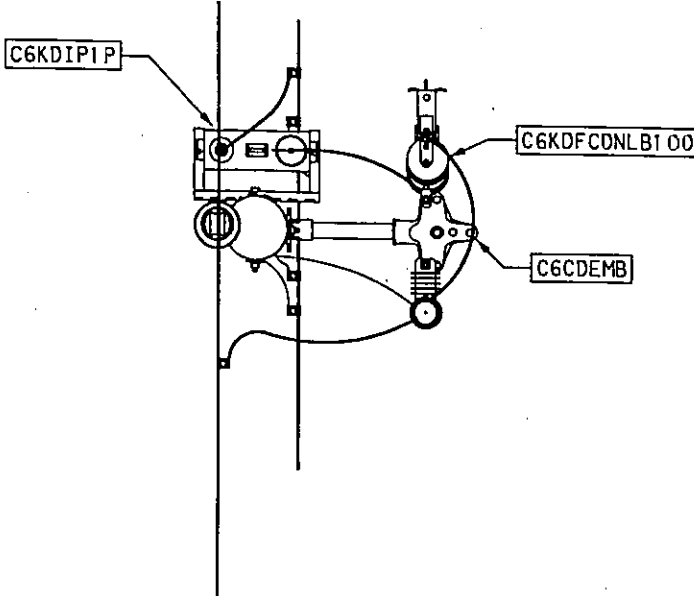
DESCRIPTION
1 PH CAPACITOR ON POLE TOP INST

PAGE
315-1B

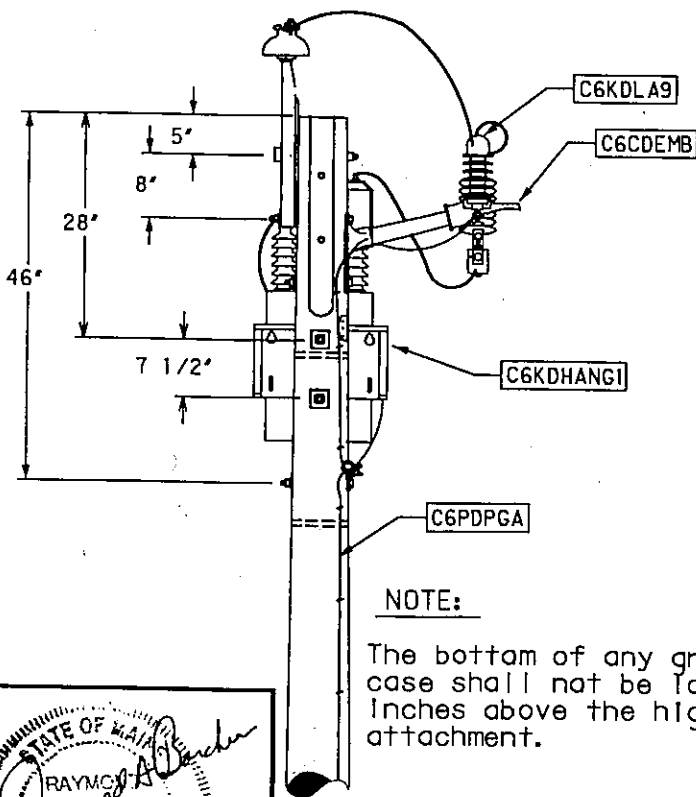
DESIGNED	JEC	CS	CS
DRAWN	GRG	REC	REC
DATE	1/03/95	08/31/01	06/26/06

DESIGNED	REDAWN
DRAWN	GRG
DATE	7/28/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

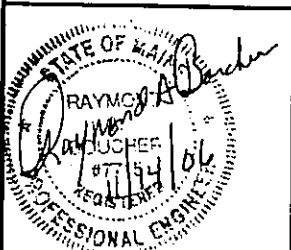
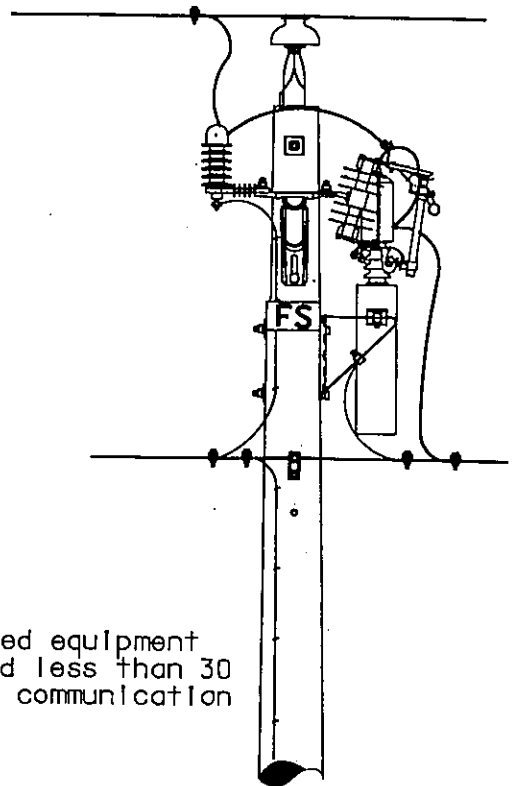


NOTE:
FOR CAPACITOR FUSE
SEE PAGE 315.



NOTE:

The bottom of any grounded equipment case shall not be located less than 30 inches above the highest communication attachment.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6QDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN, ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDPC	3	BKT EQUIP MTG 18 IN	6000620140
		CONNECTOR, PRIMARY	
C6KD1	1	CONNECTORS	600011XXXX
		CAPACITOR GENERIC 1PH	
C6KDCBU3012	1	GENERIC CAPACITOR	6000480XXX
		CAPACITOR BLOCKING UNIT 30AMPS 12KV	
		1 CBU-610 BL/UNIT 30 AMPS	6000093591
		3 CONNECTORS	600011XXXX
		6 WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6KDFCONLB100	1	1 WSHFLT GALVSQ2 1/4X3/16	6000274B10
		6 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
		CAPACITOR FUSED CUTOFF NON L/B 100A 15KV	
		2 CONNECTORS	600011XXXX
		10 WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		1 C/O N-L/B 100A 15KV	6000491800
		1 SIGN SWITCH HOLDER 4 H	6000825693
C6KDHANG1	1	CAPACITOR HANGER 1 UNIT, STEEL	
		HGR CAP 1 UNIT	6000461521
C6KQIP1P	1	CAPACITOR, INST PKG 1PH	
		CONNECTORS	600011XXXX
		5 WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		2 BOLT, THRU 5/8 IN, ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WSHFLT GALVSQ2 1/4X3/16	6000274B10
		1 WILDLIFE PROTECTOR	60003126XX
C6KDLA9	1	5 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
		CAPACITOR LIGHTNING ARRESTOR 10KV	
		2 CONNECTORS	600011XXXX
		3 WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		4 STAPLES GALV F/4 GRD WR	6000274402
C6PDPCA	1	1 WILDLIFE PROTECTOR	60003128XX
		1 ARR DIST 10KV	6000490060
		3 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
		POLE GROUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		8 MOULDING PLAS 1/2 IN GR	6000251680
	1 ROD GROUND GALV 3/4X8FT	6000251660	
	9 STAPLES GALV F/4 GRD WR	6000274402	
	6 STAPLE F/ 1/2IN MOLDING	6000274410	
	40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182	

MACRO
C6MK1 PTBU

DESCRIPTION
1 PH CAPACITOR POLE TOP W/BLOCKING UNIT

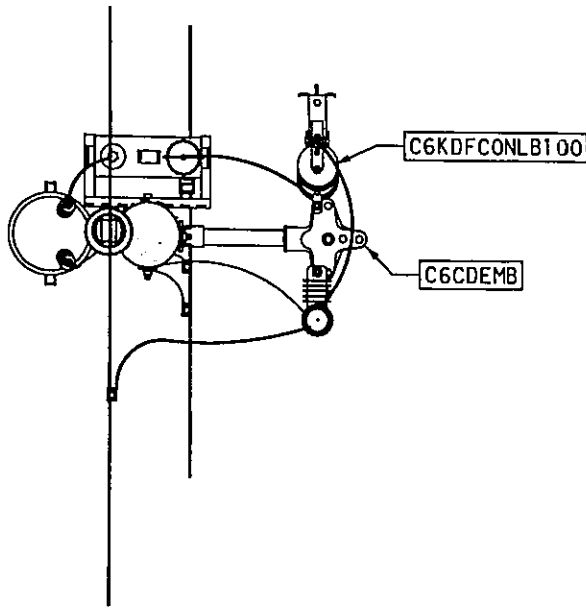
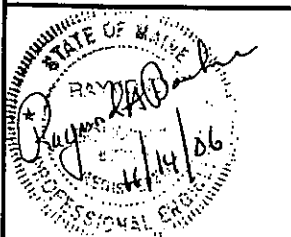
PAGE
315-2B

DESIGNED	CS	REVISED	REVISED
DRAWN	REC	REC	CS
DATE	08/31/01	06/26/06	REC



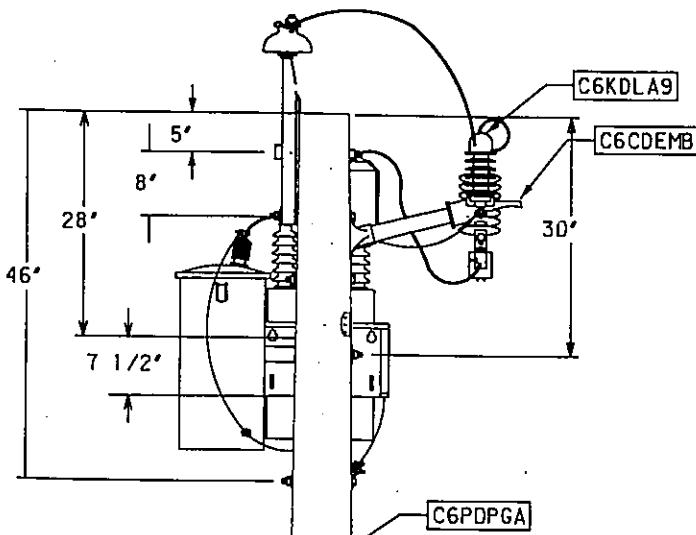
ORIGINAL	GRG
DESIGNED	GRG
DRAWN	
DATE	11/29/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



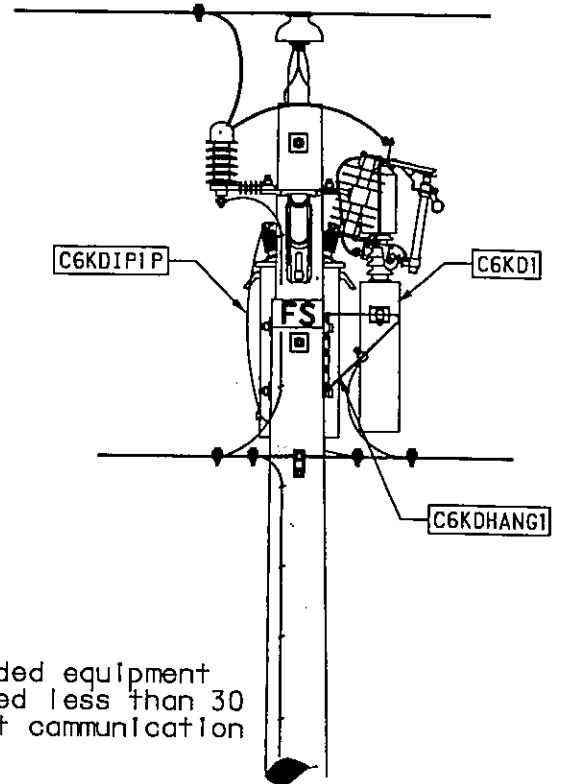
NOTE:

FOR CAPACITOR FUSE
SEE PAGE 315.



NOTE:

The battam of any grounded equipment case shall not be located less than 30 inches above the highest communication attachment.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



Capacitor Fusing Schedule
Three Phase

Capacitor Bank KVAR	2400/4160V (WYE)	7200/12470V (WYE)	12470V (DELTA)	20000/34500V (WYE)
150	25T	---	---	---
180	25T	---	---	---
225	40T	---	---	---
270	40T	---	---	---
300	40T	15T	15T	6T
450	---	25T	25T	10T
600	---	40T	40T	15T
900	---	65T	65T	25T
1200	---	65T	65T	---
1800	---	---	---	40T

No fuse larger than those recommended in the above table should be used without specific recommendations from the Distribution Field Engineer.

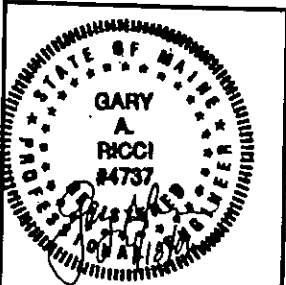
1. Capacitor banks, for which fusing is not shown, are special cases and they should be referred to the Distribution Field Engineer.
2. **CAUTION:** After opening supply line to capacitors, consider them energized until they are properly discharged.

DESIGNED	REVISED	REVISED
DRAWN	CS	CS
DATE	REC	REC
	10/25/01	01/30/08



DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	GRC
	6/02/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



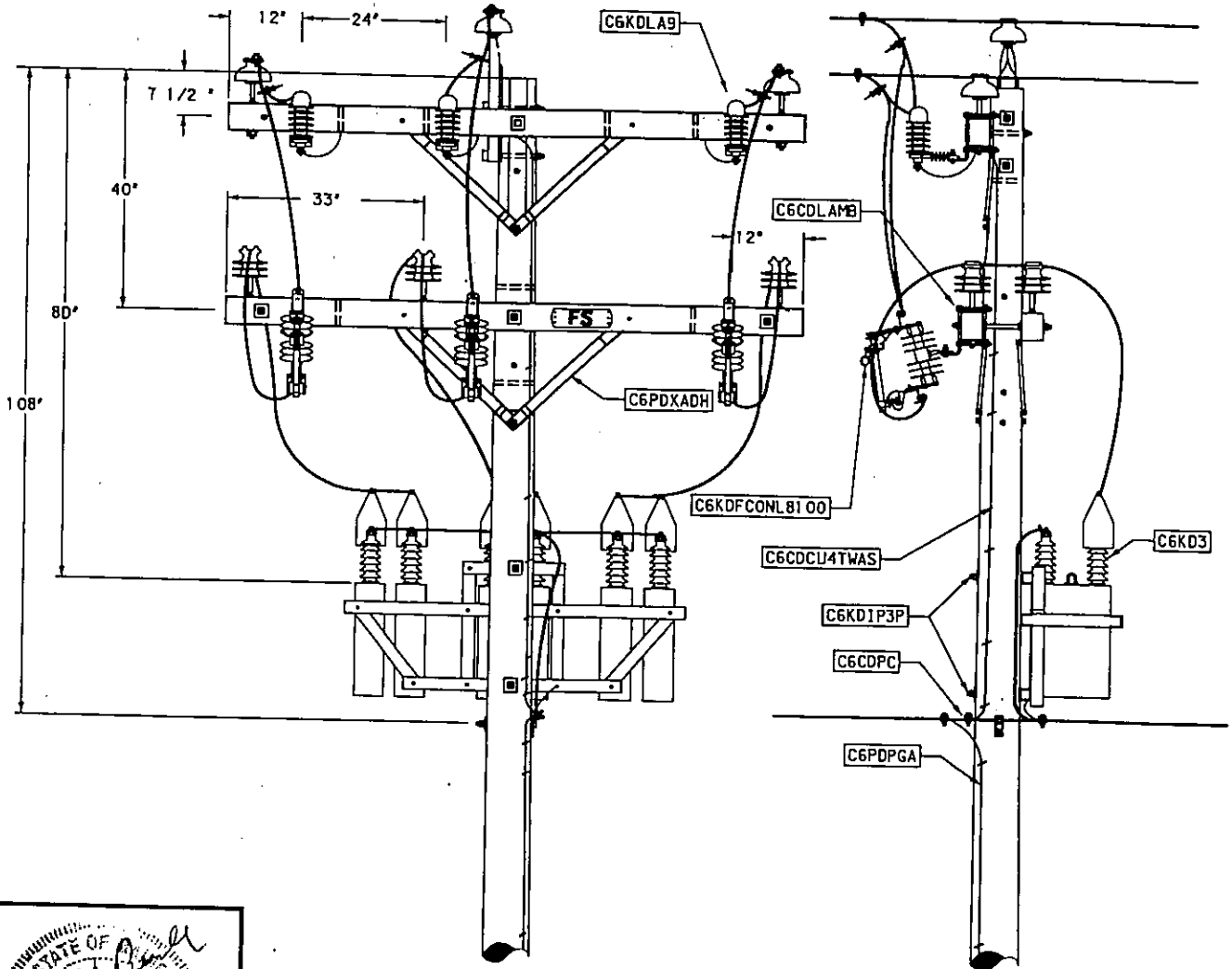
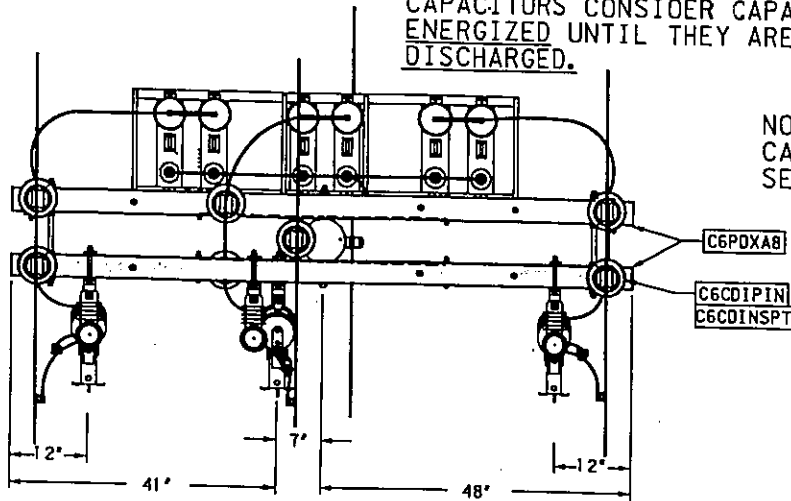
Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDCU4TWAS	8	COPPER #4 STRANDED WIRE BARE SD	
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6C0INSPT	6	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6COLAMB	6	XARM MOUNTING BRACKET	
		BKT EQUIP MTG CROSSARM	6000620100
C6CDPC	1	CONNECTOR, PRIMARY	
		CONNECTORS	600011XXXX
C6KD3	1	CAPACITOR GENERIC 3PH	
		GENERIC CAPACITOR -	6000480XXX
C6KQFCOVLB100	3	CAPACITOR FUSED CUTOFF NON L/B 100A 15KV	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		C/O N-L/B 100A 15KV	6000491800
		SIGN SWITCH HOLDER 4 H	6000825693
C6KDIP3P	1	CAPACITOR, INST PKG, 3PH	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		BOLT, THRU 5/8 IN, ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WSHFLT GALV SQ2 1/4X3/16	6000274810
		WILDLIFE PROTECTOR	60003128XX
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6KDIA9	3	CAPACITOR LIGHTNING ARRESTOR 10KV	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		STAPLES GALV F/4 GRD WR	6000274402
		WILDLIFE PROTECTOR	60003128XX
		ARR QIST 10KV	6000490060
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4X8FT	6000251860
		STAPLES GALV F/4 GRD WR	6000274402
		STAPLE F/ 1/2IN MOULDING	6000274410
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA8	2	XARM, 6PIN, 8FT	
		XARM 6PIN 8	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, SPACE, 5/8 IN, ALL SIZES	600027217X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

CAUTION: AFTER OPENING CUTOUTS TO CAPACITORS CONSIDER CAPACITORS ENERGIZED UNTIL THEY ARE PROPERLY DISCHARGED.

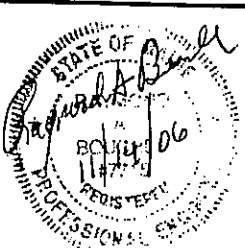
NOTE:
CAPACITOR FUSING
SEE PAGE 316.

DESIGNED	REVISOR	REVISION	DATE
JD	CS		
GRG	REC		
DATE			08/31/01
			06/26/06



DESIGNED	REVISOR	REVISION	DATE
GRG			
DATE			4/21/94

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



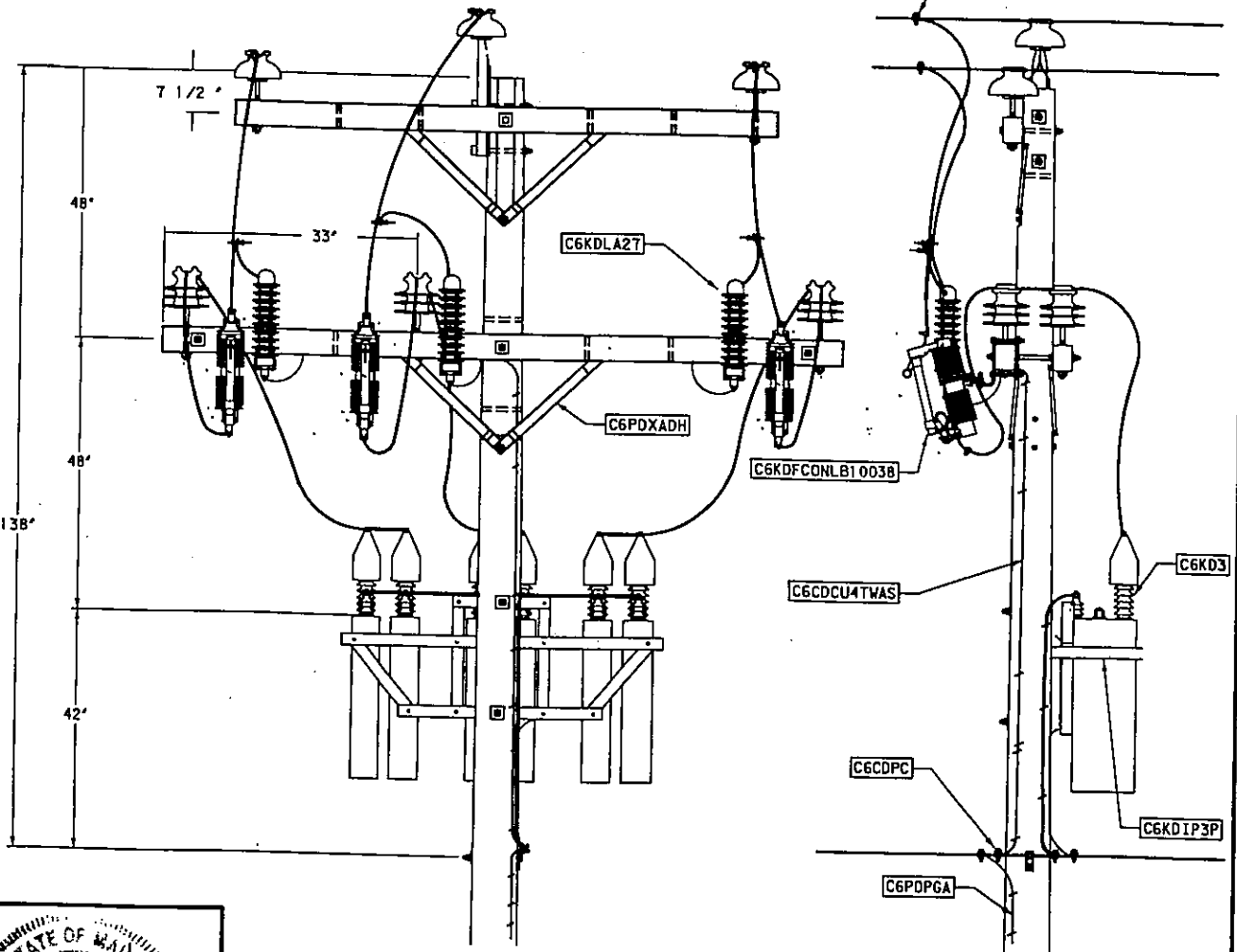
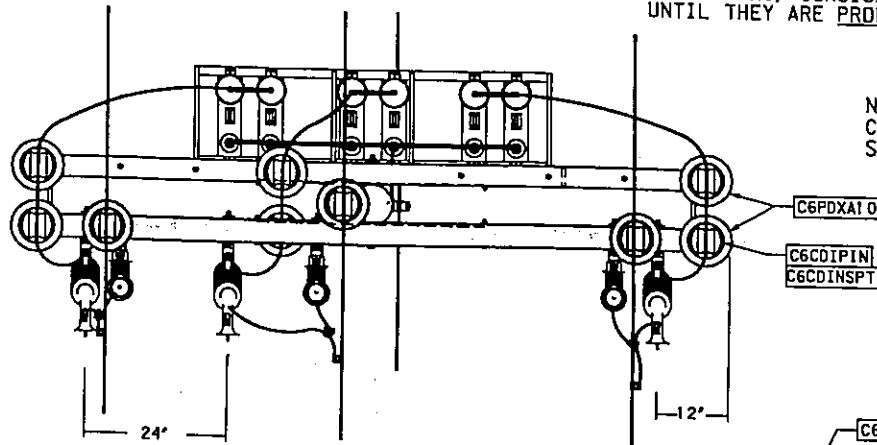
Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDCU4TWAS	8	COPPER #4 STRANDED WIRE BARE SD	
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6CDINSPT	6	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6C0IPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDLAMB	6	XARM MOUNTING BRACKET	
		BKT EQUIP MTG CROSSARM	6000620100
C6CDPC	1	CONNECTOR, PRIMARY	
		CONNECTORS	600011XXXX
C6KD3	1	CAPACITOR, GENERIC 3PH	
		GENERIC CAPACITOR	6000480XXX
C6KQFCONLB10038	3	CAPACITOR FUSED CUTOFF NON L/B 100A 38KV	
		WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		C/O N-L/B 100A 38KV	6000491770
		SIGN SWITCH HOLDER 4 H	6000825693
C6KDIP3P	1	CAPACITOR, INST PKG, 3PH	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WSHFLT GALV SQ2 1/4X3/16	6000274810
		WILDLIFE PROTECTOR	60003128XX
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6KDIA27	3	CAPACITOR LIGHTNING ARRESTOR 27KV	
		CONNECTORS	600011XXXX
		STAPLES GALV F/4 GRD WR	6000274402
		WILDLIFE PROTECTOR	60003128XX
		ARRESTER, DISTRIBUTION	6000490120
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6POPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4X8FT	6000251860
		STAPLES GALV F/4 GRD WR	6000274402
		STAPLE F/ 1/2IN MOLDING	6000274410
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA10	2	XARM, 8PINB, 10 FT	
		XARM 8 PIN B	6000740540
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

CAUTION: AFTER OPENING CUTOUTS TO CAPACITORS, CONSIDER CAPACITORS ALIVE UNTIL THEY ARE PROPERLY DISCHARGED.

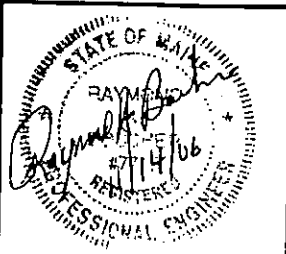
NOTE:
CAPACITOR FUSING
SEE PAGE 316.

DESIGNED	REVISOR	REVISION	DATE
JD	JD	1	7/28/94
GRG	GRG	2	10/03/01
DATE	REC	CS	06/26/06



DESIGNED	REVISOR	REVISION	DATE
GRG	GRG	1	4/21/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CQC4TWAS	8	COPPER #4 STRANDED WIRE BARE SD	
	1	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6CDINSPT	8	INSULATOR PIN TYPE GENERIC (SELECT FROM	
	1	INSULATORS	6000310XXX
C6CDIPIN	8	INSULATOR PINS VARIOUS SIZES LOBBY	
	1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
	1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CQPC	1	CONNECTOR, PRIMARY	
	1	CONNECTORS	600011XXXX
C6KD3	1	CAPACITOR GENERIC 3PH	
	1	GENERIC CAPACITOR	6000480XXX
C6KDFCONL810038	3	CAPACITOR FUSED CUTOFF NON L/B 100A 38KV	
	10	WIRE #2 CU 7 STRAND SO RHW USE OR RHH	6000207360
	1	C/O N-L/B 100A 38KV	6000491770
	1	SIGN SWITCH HOLDER 4 H	6000825693
C6KDIP3P	1	CAPACITOR, INST PKG. 3PH	
	2	CONNECTORS	600011XXXX
	15	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WSHFLT GALV SO2 1/4X3/16	6000274810
	6	WILDLIFE PROTECTOR	60003128XX
	5	WIRE NO. 4 CU GROUND BARE STRANDED S O	751182
C6KDLA27	3	CAPACITOR LIGHTNING ARRESTOR 27KV	
	2	CONNECTORS	600011XXXX
	4	STAPLES GALV F/4 GRD WR	6000274402
	1	WILDLIFE PROTECTOR	60003128XX
	1	ARRESTER, DISTRIBUTION	6000490120
	6	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRO ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLQING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA10	2	XARM, 8PINS, 10 FT	
	1	XARM B PIN B	6000740540
C6POXADH	1	XARM, DOUBLE, HARDWARE ONLY	
	4	8 CARR GALV 3/8 X 5	6000270310
	3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
	2	B LAG GALV FET 1/2 X 4	6000272540
	4	BRACE XARM 28 IN	6000272670
	10	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MK3DXBU34

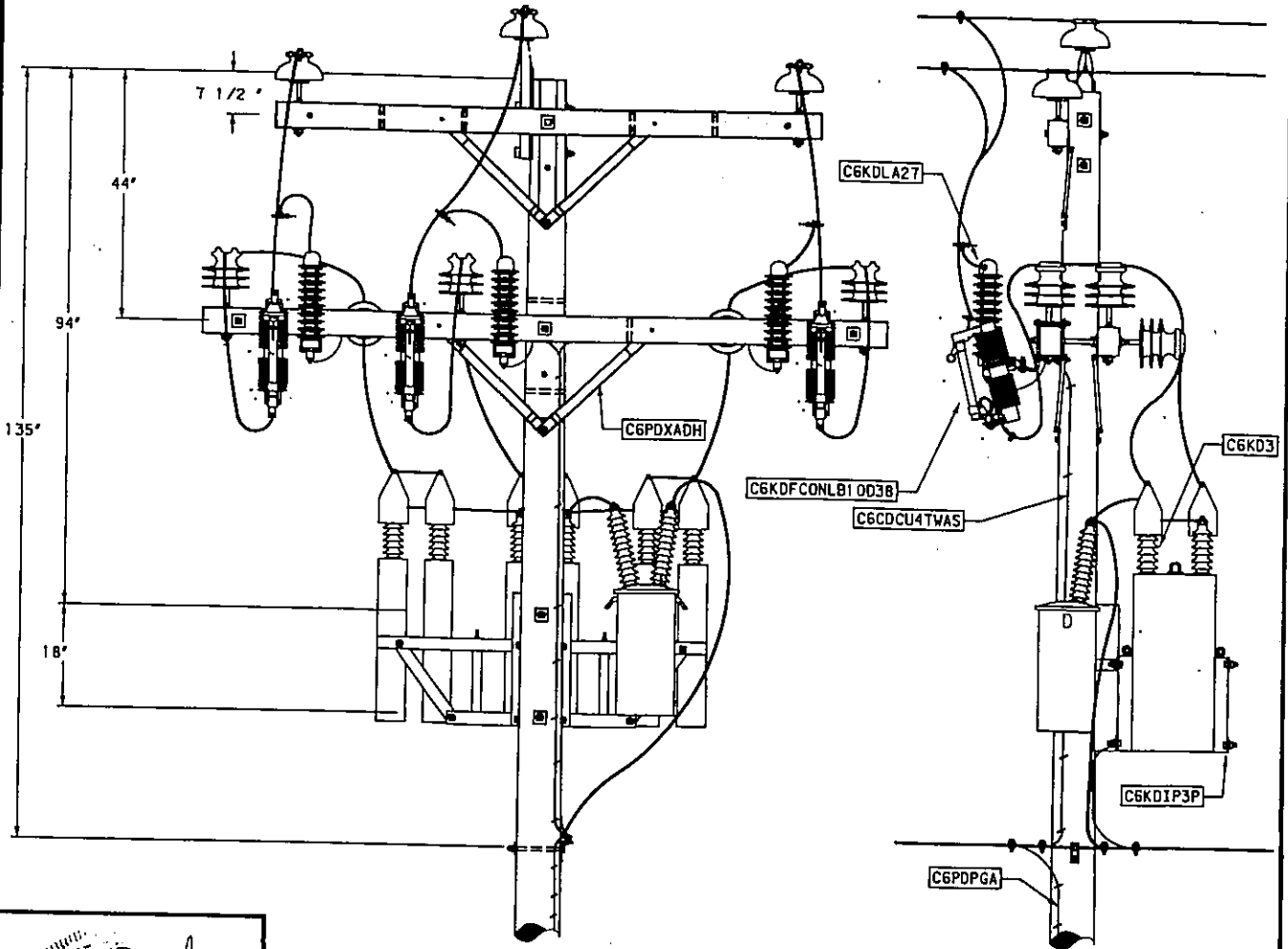
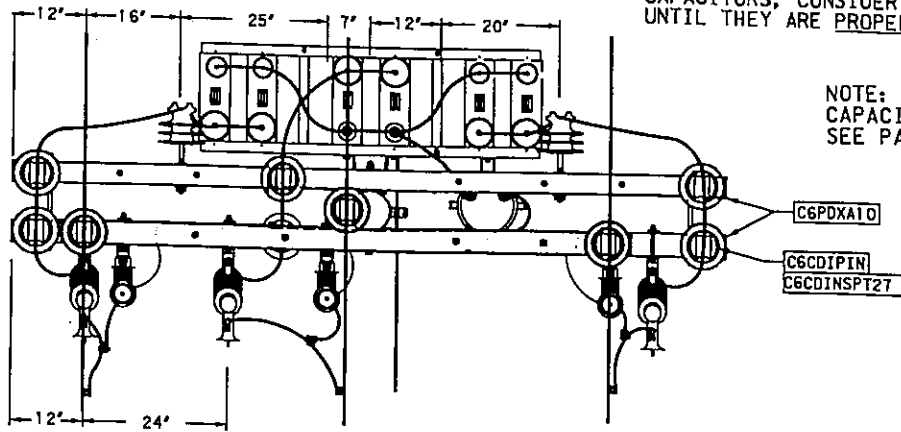
DESCRIPTION
3PH CAPACITOR BANK W/BLOCKING UNIT 34KV

PAGE
316-3B

CAUTION: AFTER OPENING CUTOUTS TO CAPACITORS, CONSIDER CAPACITORS ALIVE UNTIL THEY ARE PROPERLY DISCHARGED.

NOTE:
CAPACITOR FUSING
SEE PAGE 316.

DESIGNED	REVISOR	DATE	DESIGNED	REVISOR	DATE
JD	CS	7/28/94	JD	CS	06/26/06
DRAWN	REC		DRAWN	REC	
GRG	REC	0/03/01	GRG	REC	



DESIGNED	REVISOR	DATE
GRG	CS	4/20/94

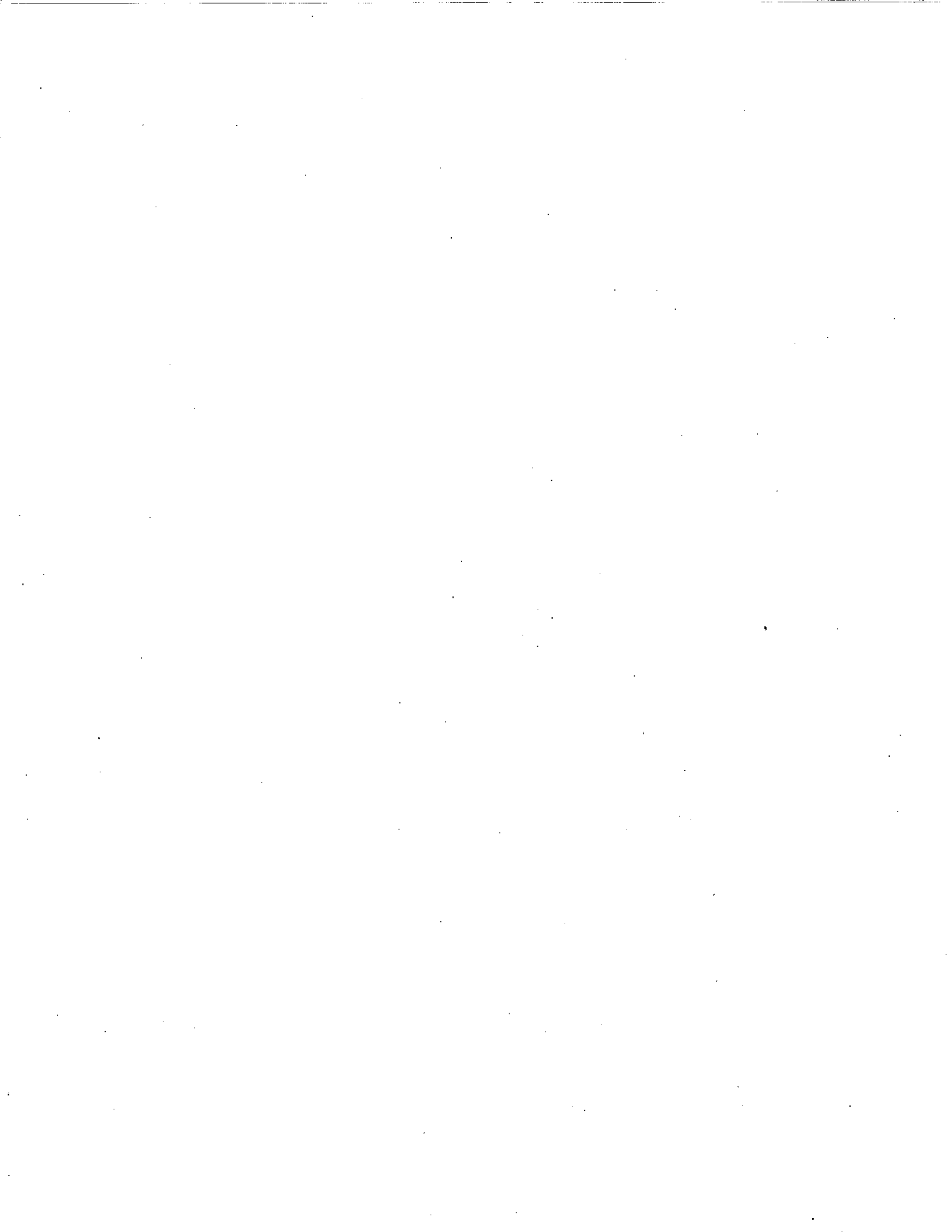
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

STATE
REGISTERED PROFESSIONAL ENGINEER
11/14/06



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS







REGULATOR OPERATING INSTRUCTIONS

TO PLACE REGULATOR IN SERVICE

1. Open control circuit.
2. Close solid blade disconnect to connect source bushing to line.
3. Close control circuit and run the regulator to neutral by manual control; test for neutral position, then reopen the control circuit.
4. Open solid blade disconnect connected to source bushing.
5. Connect load-bushing lead to line (hot line clamp).
6. Close solid blade disconnect on source bushing.
7. Open by-pass solid blade disconnect.
8. Close control circuit and place control on AUTO.

TO REMOVE REGULATOR FROM SERVICE

1. Set the regulator on neutral by manual control, test for neutral position, then open the control circuit.
2. Close by-pass solid blade disconnect.
3. Open solid blade disconnect connected to source bushing.
4. Remove lead connected to load bushing from line.

CAUTION

To avoid burnout of windings, the by-pass solid blade disconnect must never be closed with the regulator in service except when in the neutral position. If the regulator is accidentally by-passed off neutral the Stations Department should be contacted to test the regulator before placing it back in service.

The connection from SL bushing to ground should never be opened unless the regulator is disconnected from the line. When the connection to the SL bushing is open, the regulator acts as a current transformer with open-circuited secondary. Dangerous voltages are induced in the series and exciting windings if any load current flows in the series winding.

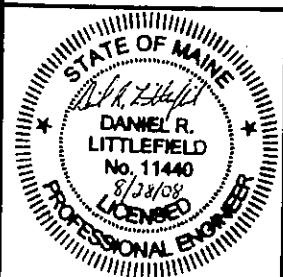
NOTE: Regulators shall not be back fed without approval from Distribution Field Engineer.

REV	REVISION	DATE	CR.
1	Changed wording of text	08/27/08	



DESIGNED	EVC
DRAWN	RCE
DATE	04/30/16

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

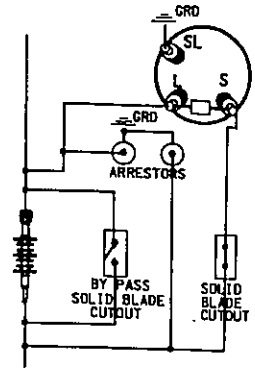
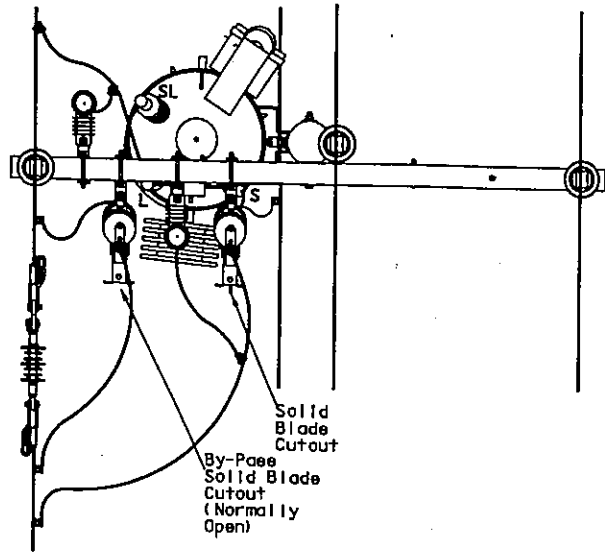
CU Number	Quantity - CU/Mat		Description	Material ID
C6CDDE	2		DEADEND COND. GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDHLCF8	1		LINK CONNECTING FIGURE 8	
		1	LINK CONNECTING FIG 8	6000273410
C6COINSPT	3		INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1	INSULATORS	6000310XXX
C6CDINSS	1		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6CDIPIN	2		INSULATOR PINS VARIOUS SIZES LOBBY	
		1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1		NEUTRAL BRACKET STEEL	
		4	TIE WIRE AL LOBBY	6000205XXX
		1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		1	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1		POLE TOP PIN 24 INCH STEEL	
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1	POLE TOP PIN 24X1 3/8 INCH	6000274170
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		2	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6IQ	1		REGULATOR GENERIC	
		1	GENERIC VOLTAGE REGULATOR	600087XXXX
C6IDHIP	1		REGULATOR, INSTALLATION PACKAGE	
		5	CONNECTORS	600011XXXX
		4	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		4	TAP WIRE (SELECT FROM CUCT)	600020XXXX
		2	BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		2	WSH 2 TURN SPR GALV 3/4	6000274610
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		2	WILDLIFE PROTECTOR	60003128XX
		5	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6IQHLA9	2		REGULATOR LIGHTNING ARRESTOR 10KV	
		2	CONNECTORS	600011XXXX
		3	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		4	STAPLES GALV F/4 GRD WR	6000274402
		1	WILDLIFE PROTECTOR	60003128XX
		1	ARR DIST 10KV	6000490060
		3	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6IDHLAMB	4		XARM MOUNTING BRACKET	
		1	BKT EQUIP MTG CROSSARM	6000620100
C6IDHPGA	1		REGULATOR POLE GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		8	MOULDING PLAS 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		6	STAPLE F/ 1/2 IN MOLDING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6IDSBCONLB30015	2		SOLID BLADE CUTOUT N L/B 300A 15KV REG	
C6PD	1		POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDXAB	1		XARM, 6PINB, 8FT	
		1	XARM 6PIN B	8000740510
C6PDXASH	1		XARM, SINGLE, HARDWARE ONLY	
		2	B CARR GALV 3/8 X 5	6000270310
		1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1	B LAG GALV FET 1/2 X 4	6000272540
		2	BRACE XARM 2B IN	6000272670
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		3	WASHER, GALV, TWD TURN SPRING ALL SIZES	6000274XXX

MACRO
C6M11DX12R

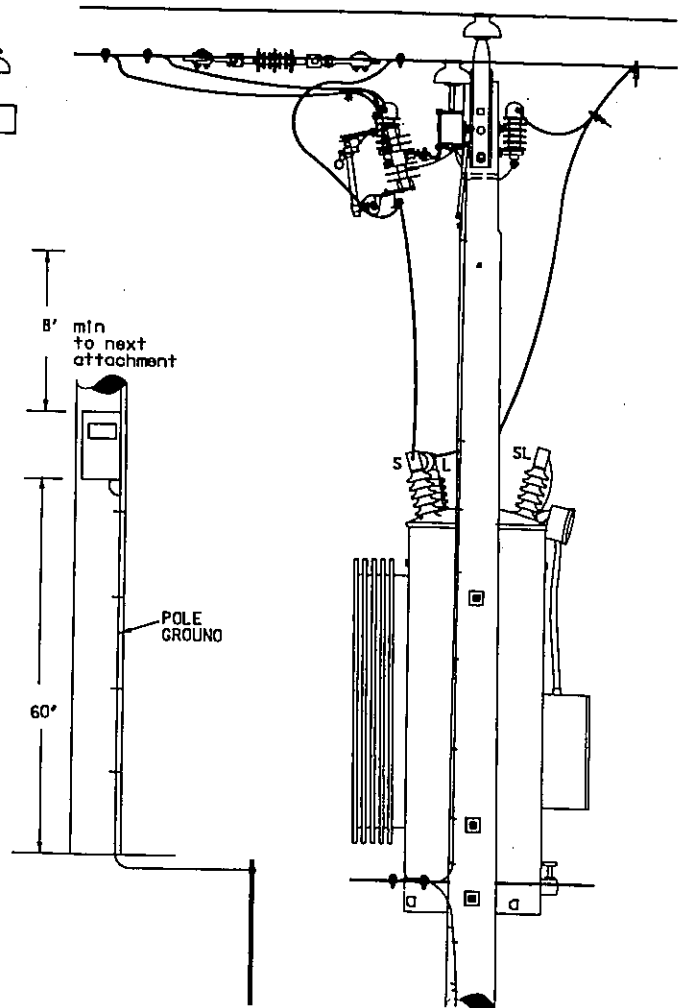
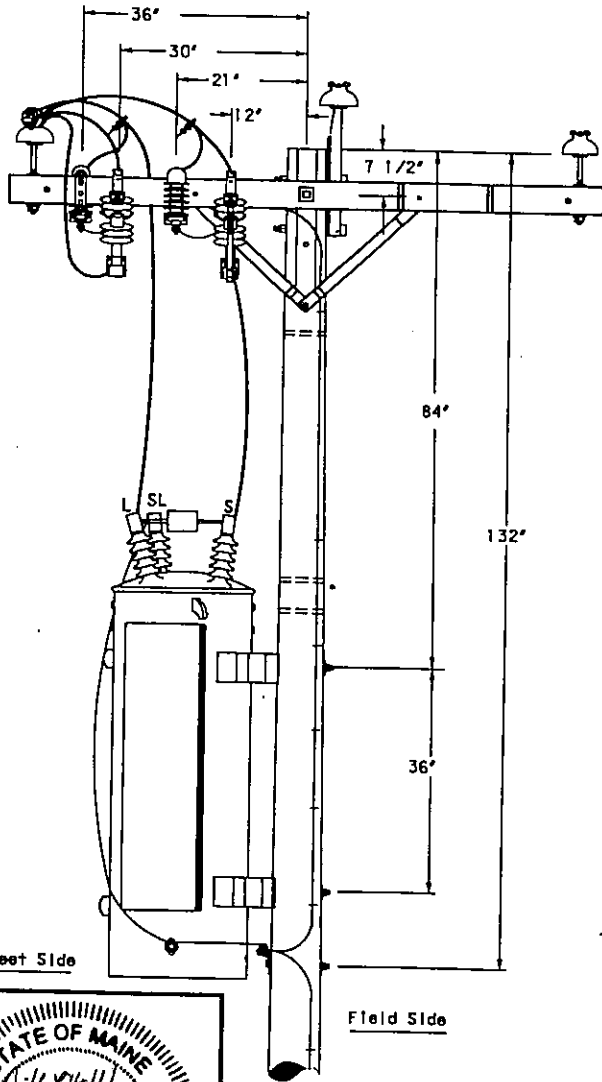
DESCRIPTION
1 PH VOLTAGE REGULATOR
12KV ROAD PH (100A & 219A ONLY)

PAGE
319-1B

NO.	REVISION	DATE	CK.
1	MAKE TERM 10'S READABLE, CHG CLEARANCE, CHG SV SYMBOL	08/27/08	

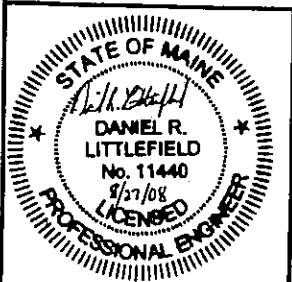


Operating Instructions
see page 319



ORIGINAL	HEP	GRG	5/2/90
DESIGNED			
DRAWN			
DATE			

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
328 Amp voltage regulators must be
platform mounted.



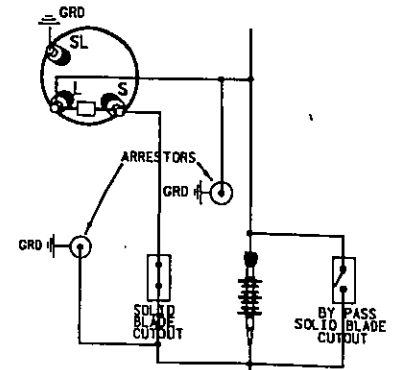
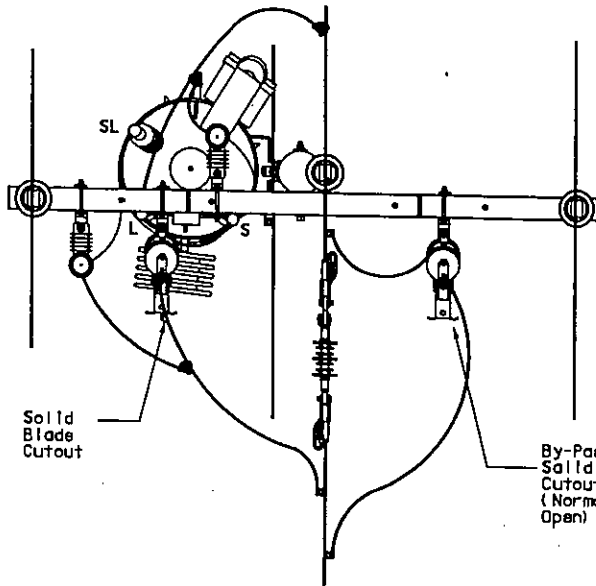
CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

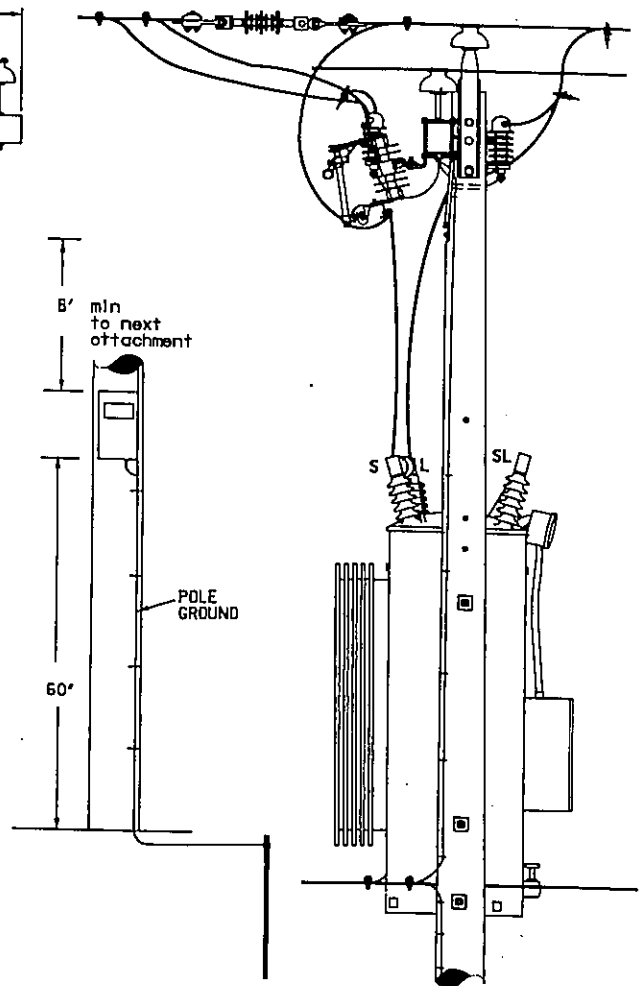
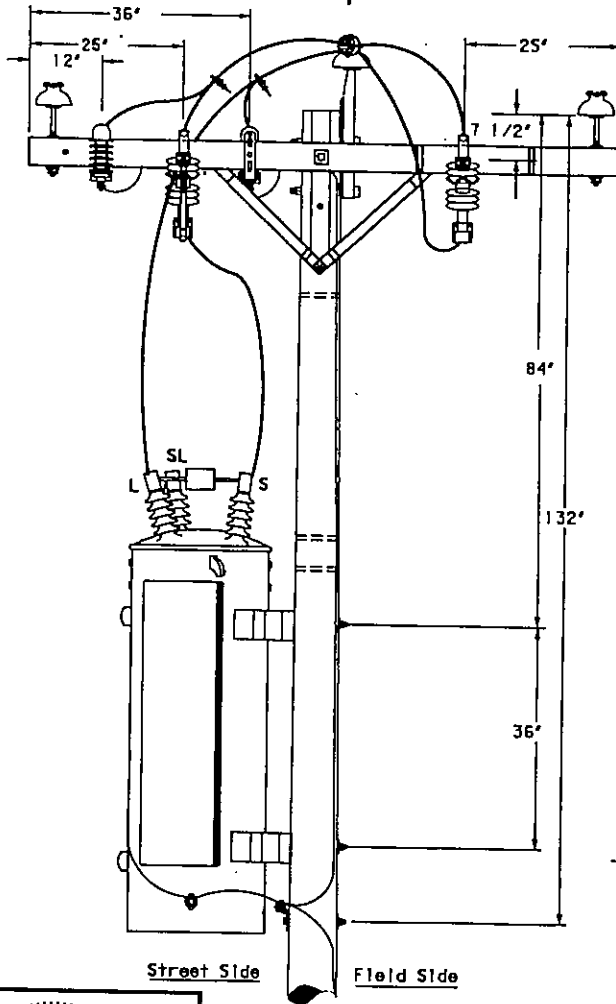
Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	2	DEADEND COND. GENERIC (SELECT FROM CUCT)	
		DEADEND PRL (SELECT FROM CUCT)	60001106XX
C6CDHLCF8	1	LINK CONNECTING FIGURE 8	
		LINK CONNECTING FIG 8	6000273410
C6CDINSPT	3	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CQINSS	1	INS DEADEND GENERIC (SELECT FROM CUCT)	
		INSULATORS	6000310XXX
C6CDIPIN	2	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 24X1 3/8 INCH	6000274170
		WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		WASHER GALV. TWO TURN SPRING ALL SIZES	6000274XXX
C6ID	1	REGULATOR GENERIC	
		GENERIC VOLTAGE REGULATOR	600087XXXX
C6IDHIP	1	REGULATOR INSTALLATION PACKAGE	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		TAP WIRE (SELECT FROM CUCT)	600020XXXX
		BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		WSH 2 TURN SPR GALV 3/4	6000274610
		WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		WILDLIFE PROTECTOR	60003128XX
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6IDHLA9	2	REGULATOR LIGHTNING ARRESTOR 10KV	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		STAPLES GALV F/4 GRD WR	6000274402
		WILDLIFE PROTECTOR	60003128XX
		ARR OIST 10KV	6000490060
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6IDHLAMB	4	XARM MOUNTING BRACKET	
		BKT EQUIP MTG CROSSARM	6000620100
C6IDNPGA	1	REGULATOR POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112862
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4X8FT	8000251880
		STAPLES GALV F/4 GRD WR	6000274402
		WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		WASHER GALV. TWO TURN SPRING ALL SIZES	6000274XXX
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6IDSBCONLB30015	2	SOLID BLADE CUTOUT N 1/8 300A 15KV REG	
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SELECT FROM CUCT)	600074XXXX
C6PDXA8	1	XARM, 6PIN, 8FT	
		XARM 6PIN 8	6000740510
C6PDXASH	1	XARM, SINGLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		WASHER GALV. TWO TURN SPRING ALL SIZES	6000274XXX

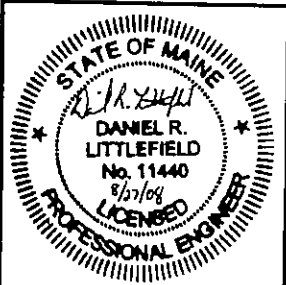
NO.	REVISION	DATE	CHK.
1	Lower frame, rem shading, chg av symbol	08/27/08	



Operating Instructions see page 319



NOTE: 328 Amp voltage regulators must be platform mounted.



ORIGINAL	HEP
DESIGNED	GRG
DRAWN	DATE
	5/2/90

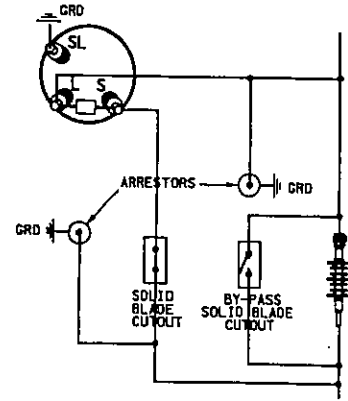
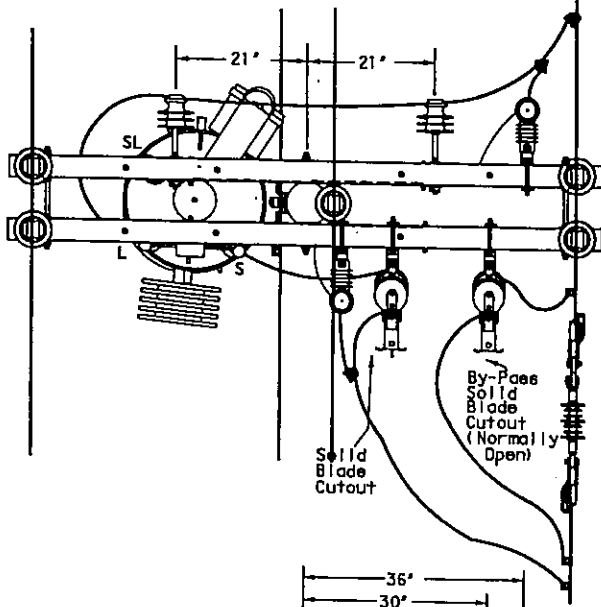
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



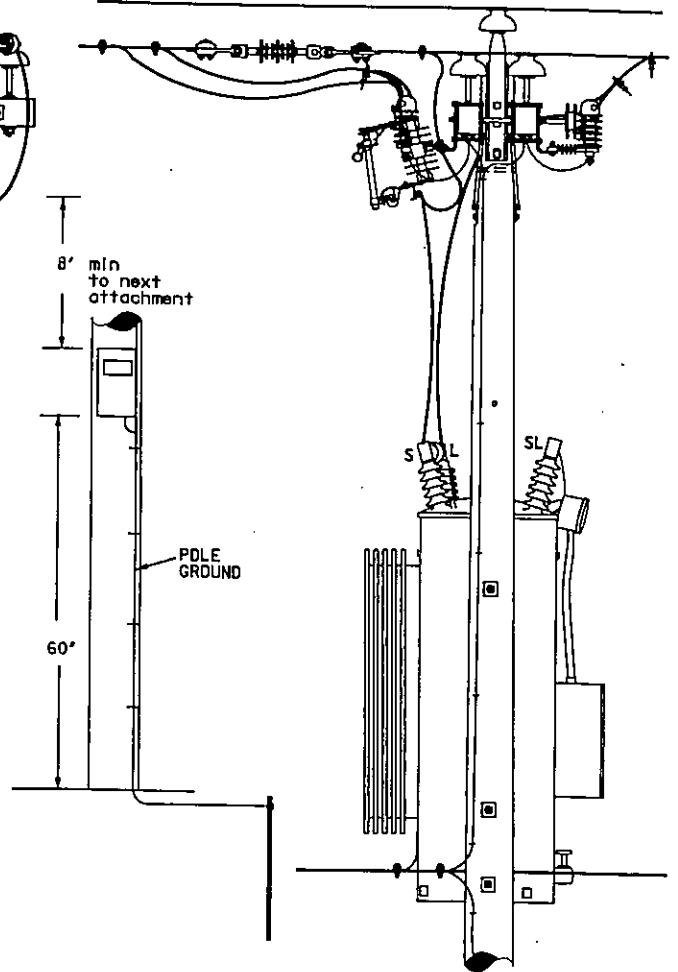
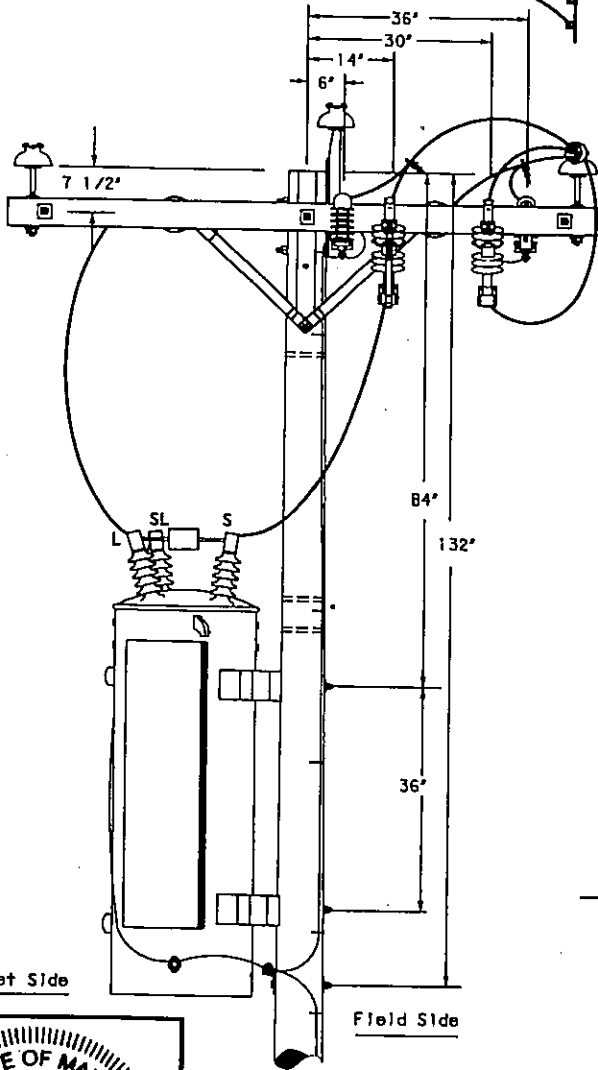
Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Matl	Description	Material ID
C6CDDE	2	DEADEND COND. GENERIC (SELECT FROM CUCT)	
	1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDHLCF8	1	LINK CONNECTING FIGURE B	
	1	LINK CONNECTING FIG B	6000273410
C6CDINSPT	7	INSULATOR PIN TYPE GENERIC (SELECT FROM	
	1	INSULATORS	6000310XXX
C6CDINSS	1	INS. DEADEND GENERIC (SELECT FROM CUCT)	
	1	INSULATORS	6000310XXX
C6CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
	1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
	1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
	4	TIE WIRE AL LOBBY	6000205XXX
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	1	WASHER, SQUARE GALVANIZED ALL SIZES	60002748XX
	1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	POLE TOP PIN 24X1 3/8 INCH	6000274170
	2	WASHER, SQUARE GALVANIZED ALL SIZES	60002748XX
	2	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6ID	1	REGULATOR GENERIC	
	1	GENERIC VOLTAGE REGULATOR	600087XXXX
C6IDHIP	1	REGULATOR INSTALLATION PACKAGE	
	5	CONNECTORS	600011XXXX
	4	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
	4	TAP WIRE (SELECT FROM CUCT)	600020XXXX
	2	BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
	2	WSH 2 TURN SPR GALV 3/4	6000274610
	2	WASHER, SQUARE GALVANIZED ALL SIZES	60002748XX
	2	WILDLIFE PROTECTOR	60003128XX
	5	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6IDHLA9	2	REGULATOR LIGHTNING ARRESTOR 10KV	
	2	CONNECTORS	600011XXXX
	3	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
	4	STAPLES GALV F/4 GRD WR	6000274402
	1	WILDLIFE PROTECTOR	60003128XX
	1	ARR DIST 10KV	6000490060
	3	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6IDHLAMB	4	XARM MOUNTING BRACKET	
	1	BKT EQUIP MTG CROSSARM	6000620100
C6IDHPCA	1	REGULATOR POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112682
	1	CONNECTORS	600011XXXX
	8	MOLDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2 IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6IDSBCONLB30015	2	SOLID BLADE CUTOUT N L/B 300A 15KV REG	
C6PDXA8	2	XARM, 6PINB, 8FT	
	1	XARM 6PIN 6	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
	4	B CARR GALV 3/8 X 5	6000270310
	3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
	2	B LAG GALV FET 1/2 X 4	6000272540
	4	BRACE XARM 28 IN	6000272670
	10	WASHER, SQUARE GALVANIZED ALL SIZES	60002748XX
	9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

NO.	REVISION	DATE	CR.
1	Lower frame, rem shading, chg sv symbol	08/27/08	



Operating Instructions
see page 319

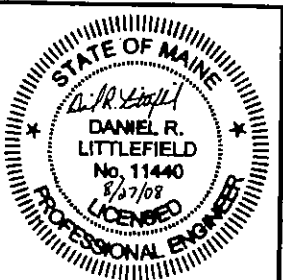


8' min
to next
attachment

PDLE
GROUND

ORIGINAL	GLG
DESIGNED	HEP
DRAWN	DATE
	5/2/90

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
328 Amp voltage regulators must be
platform mounted.



Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CODE	10	DEADEND CONO. GENERIC.(SELECT.FROM.CUCT)	
		DEADEND.PRI.(SELECT.FROM.CUCT)	60001106XX
C6COEB5/B	4	EYE BOLT.ROUND.5/8 INCH.VARIOUS.LENGTHS	
		BOLT_EYE.5/8 INCH.ALL.LENGTHS	600027045X
		WSH.2.TURN.SPR.GALV.5/8	6000274600
		WASHER,SQUARE,GALVANIZED.ALL.SIZES	60002748XX
C6CDHLCFB	3	LINK.CONNECTING.FIGURE.B	
		LINK.CONNECTING.FIG.B	6000273410
C6CDINSPT	12	INSULATOR.PIN.TYPE.GENERIC.(SELECT.FROM	
		INSULATORS	6000310XXX
C6CDINSS	3	INS.DEADEND.GENERIC.(SELECT.FROM.CUCT)	
		INSULATORS	6000310XXX
C6CDIPIN	10	INSULATOR.PINS.VARIOUS.SIZES.LOBBY	
		XARM.PINS_USE.APPROPRIATE.SIZE	6000273XXX
		WSH.2.TURN.SPR.GALV.5/8	6000274600
C6CDPC	12	CONNECTOR.PRIMARY	
		CONNECTORS	600011XXXX
C6CDPTP	2	POLE.TOP.PIN.24 INCH STEEL	
		BOLT_THRU.5/8 IN. ALL LENGTHS	600027208X
		POLE.TOP.PIN.24X1.3/8 INCH	6000274170
		WASHER,SQUARE,GALVANIZED.ALL.SIZES	60002748XX
		WASHER,GALV.,TWO.TURN.SPRING.ALL.SIZES	6000274XXX
C6CDTC2E2-350	12	TERM.CONN.2.EYEBOLTS.2-350KCM.CU.2.BOLT	
		CONN.TERM.350CU.BAR	6000117976
C6CDTW	50	TAP.WIRE.GENERIC.(SELECT.FROM.CUCT)	
		TAP.WIRE.(SELECT.FROM.CUCT)	600020XXXX
C6ID	3	REGULATOR.GENERIC	
		GENERIC.VOLTAGE.REGULATOR	600087XXXX
C6IDHIP	3	REGULATOR.INSTALLATION PACKAGE	
		CONNECTORS	600011XXXX
		WIRE.#2.CU.7.STRAND_SO.RHW_USE.OR.RHH	6000207360
		TAP.WIRE.(SELECT.FROM.CUCT)	600020XXXX
		BOLT_THRU.3/4 IN. ALL SIZES	60002721XX
		WSH.2.TURN.SPR.GALV.3/4	6000274610
		WASHER,SQUARE,GALVANIZED.ALL.SIZES	60002748XX
		WILDLIFE.PROTECTOR	60003128XX
		WIRE.NO.4.CU.GROUND.BARE.STRANDED.S.D.	751182
C6IDHLA	6	LIGHTNING.ARRESTOR.GENERIC	
		WILDLIFE.PROTECTOR	60003128XX
		LIGHTNING.ARRESTOR.GENERIC	6000490XXX
C6IDHLAMB	6	XARM.MOUNTING.BRACKET	
		BKT.EQUIP.MIG.CROSSARM	6000620100
C6IDHPGA	2	REGULATOR.POLE.GROUND.ASSEMBLY	
		CONN.GBD.ROD.3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING.PLAS.1/2 IN.GR	6000251680
		ROD.GROUND.GALV.3/4X8FT	6000251860
		STAPLES.GALV.F/4.GRD.WR	6000274402
		STAPLE.F/1/2 IN.MOLDING	6000274410
		WIRE.NO.4.CU.GROUND.BARE.STRANDED.S.D.	751182
C6IDHSAHB3B	3	SWITCH.AIR.HOOK.BYPASS.3.BLADE.(GENERIC)	
C6PD	2	POLE.GENERIC.(SELECT.FROM.CUCT)	
		POLES.(SLECT.FROM.CUCT)	600074XXXX
C6PDPLATFORM	1	PLATFORM.ALUMINUM.16.FT	
		BOLT_THRU.3/4 IN. ALL SIZES	60002721XX
		WASHER,SQUARE,GALVANIZED.ALL.SIZES	60002748XX
		WASHER,GALV.,TWO.TURN.SPRING.ALL.SIZES	6000274XXX
		PLATFORM.TRN.AL.16.FT	6000670261
C6PDPTIMBER	3	PLATFORM.TIMBER.18.FT	
		BOLT_THRU.3/4 IN. ALL SIZES	60002721XX
		WASHER,SQUARE,GALVANIZED.ALL.SIZES	60002748XX
		WASHER,GALV.,TWO.TURN.SPRING.ALL.SIZES	6000274XXX
		PLATFORM.TIMBER.18.FOOT	6000740930
C6PDXA10	2	XARM.8.PIN.B	
		XARM.B.PIN.B	6000740540
C6PDXASH	2	XARM.SINGLE.HARDWARE.ONLY	
		B.CARR.GALV.3/8 X 5	6000270310
		BOLT_THRU.5/8 IN. ALL LENGTHS	600027208X
		B.LAG.GALV.FET.1/2 X 4	6000272540
		BRACE.XARM.28.IN	6000272670
		WASHER,SQUARE,GALVANIZED.ALL.SIZES	60002748XX
		WASHER,GALV.,TWO.TURN.SPRING.ALL.SIZES	6000274XXX

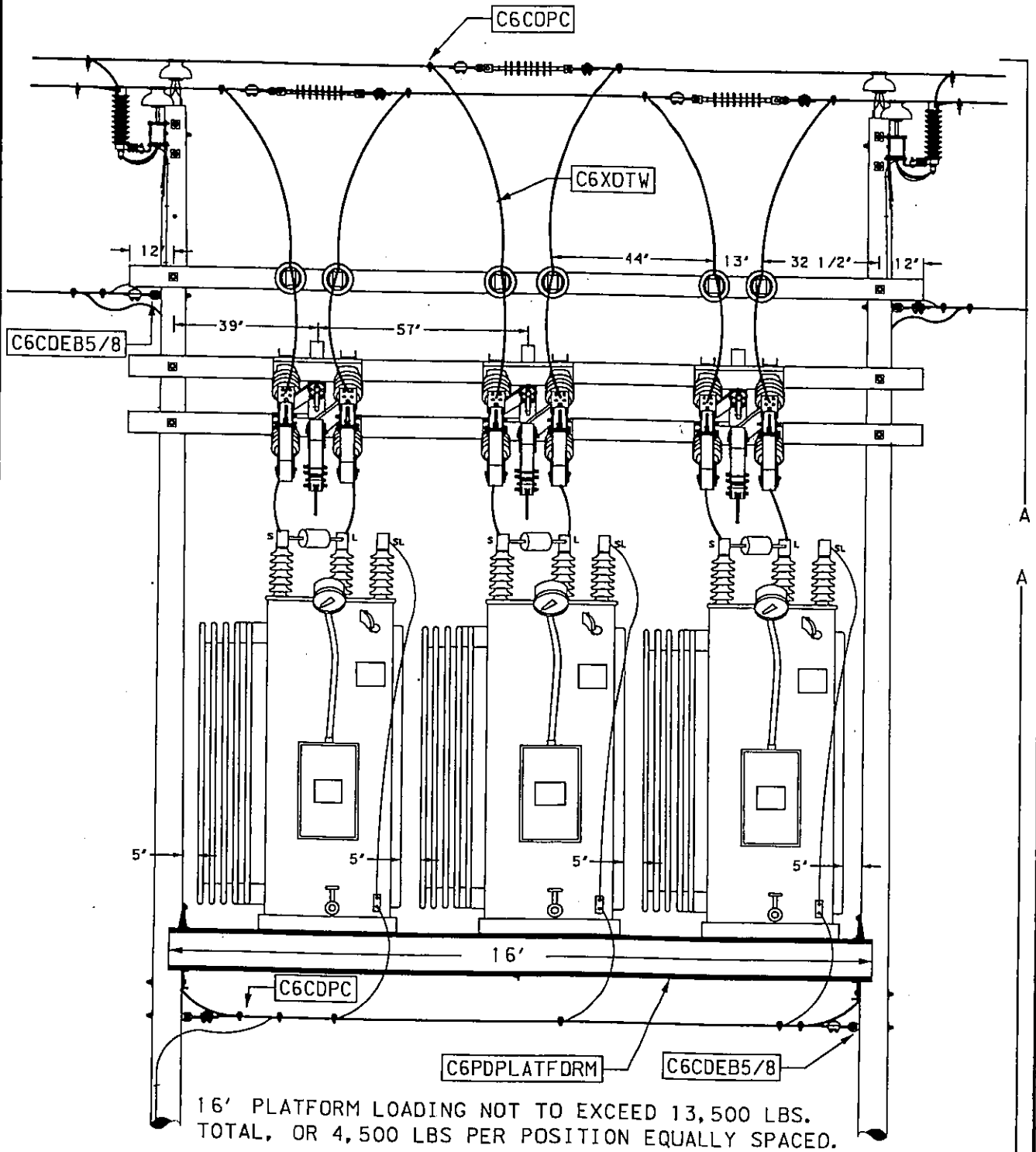
MACRO
C6MI3PMVR

DESCRIPTION
3PH PLATFORM MOUNTED VOLTAGE REGULATOR

PAGE
319-4B

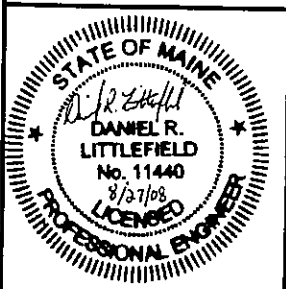
1 OF 3

NO.	REVISION	DATE	CK.
1	Chngd type of switch, added to note	08/27/08	



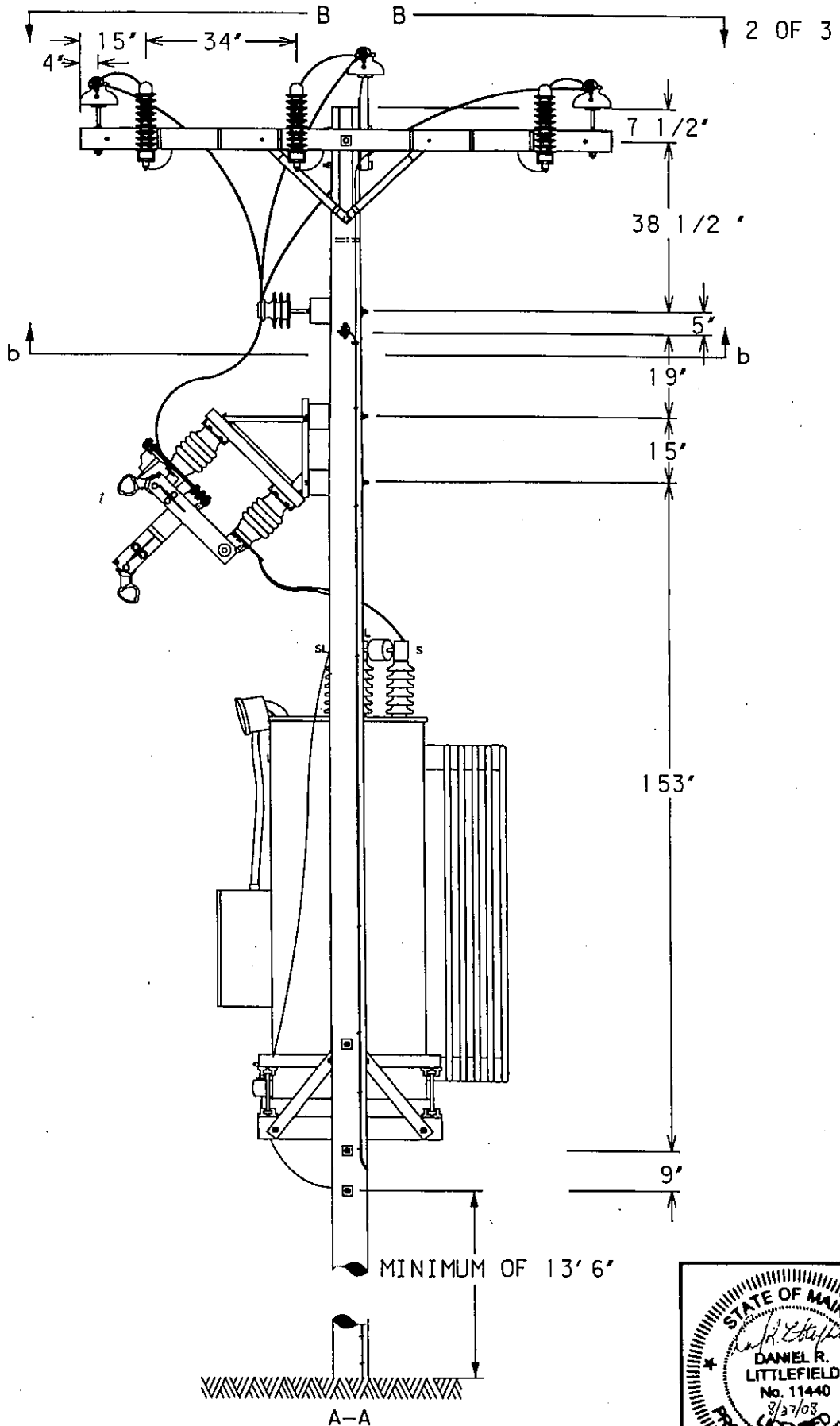
DESIGNED	HEP
DRAWN	GRG
DATE	05/02/90

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

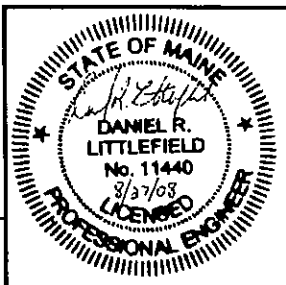
DISTRIBUTION CONSTRUCTION
STANDARDS



BE REVISED ON THE
CAD SYSTEM ONLY

DRAWN HEP
DATE 05/02/90

ENERGY
IST



MACRO
C6MI3PMVR

DESCRIPTION
3 PH PLATFORM MOUNTED VOLTAGE REGULATOR

PAGE
319-4D

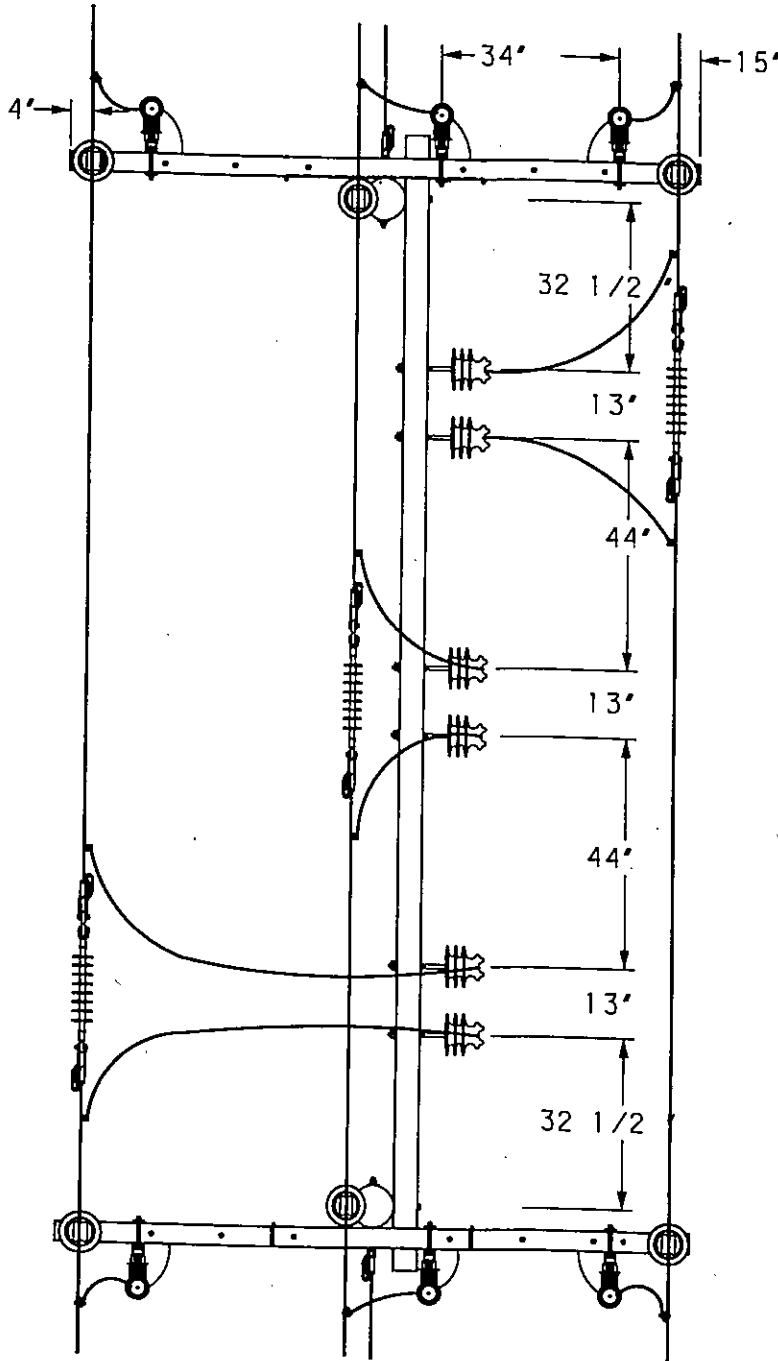
3 OF 3

DESIGNED	REVISER	REVISION	DATE
DRAWN	CS	08/31/09	01/09/06
DATE	REC		
	CS		
	REC		
	REC		

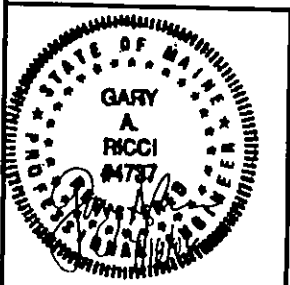


DESIGNED	GRG	DATE
DRAWN	HEP	05/02/90
DATE		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

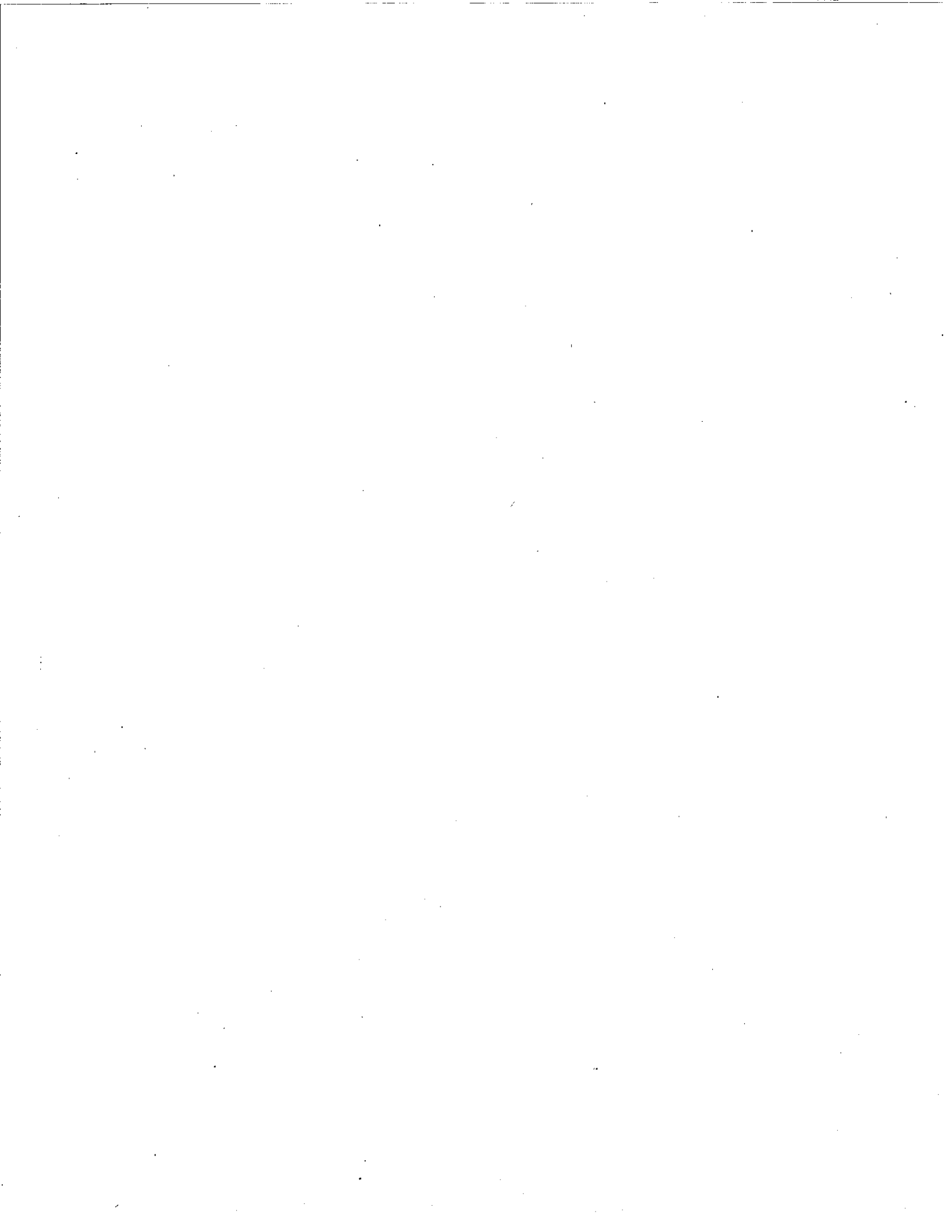


Bb-Bb



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS







THIS SHEET LEFT BLANK INTENTIONALLY

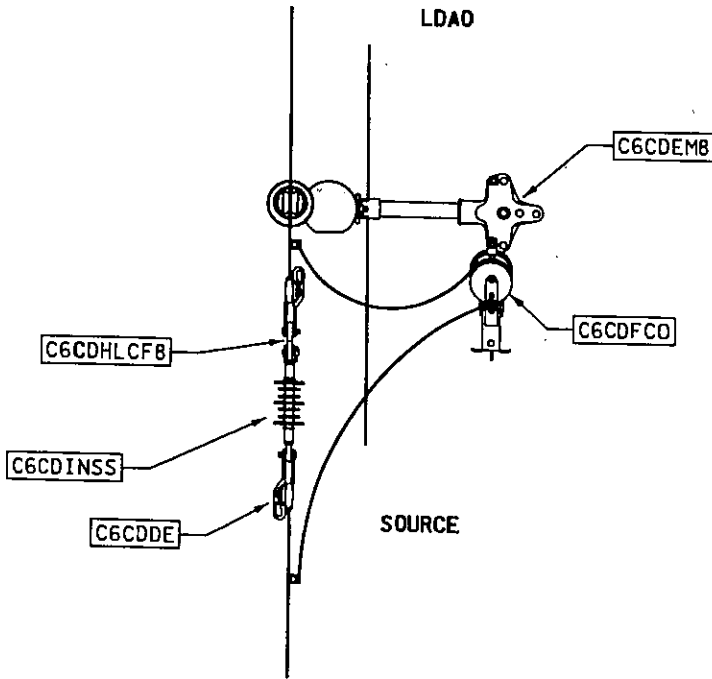
Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	2	DEADEND CONO GENERIC (SELECT FROM CUCT)	
		1 DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6CDFCO	1	FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHLCF8	1	LINK CONNECTING FIGURE 8	
		1 LINK CONNECTING FIG 8	6000273410
C6CDINSS	1	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1 INSULATORS	6000310XXX

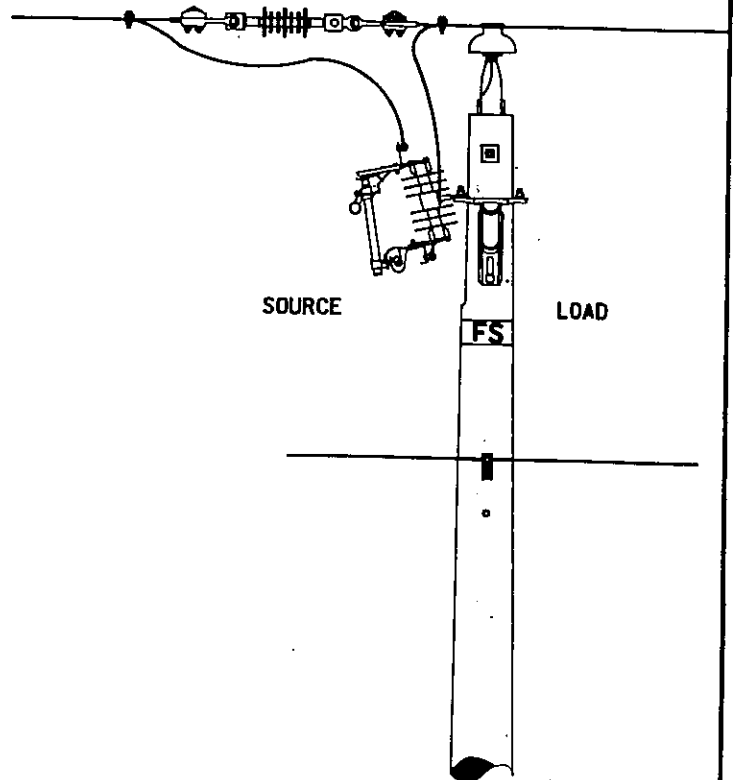
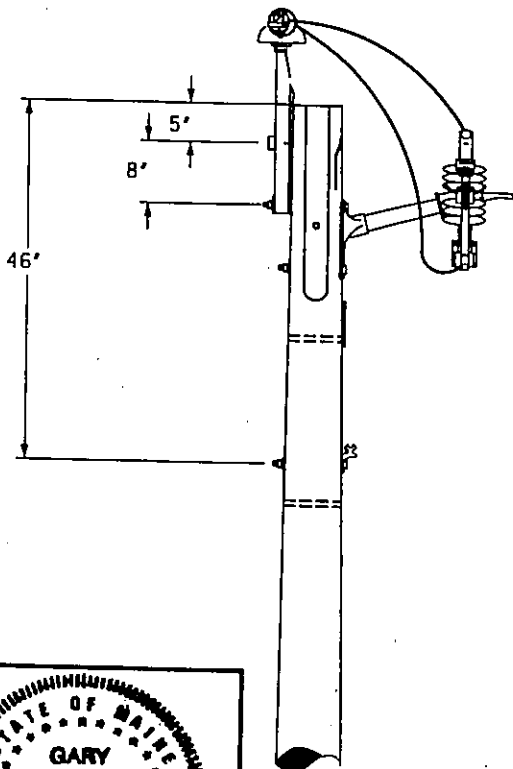
DESIGNED	REVISED	REVISED	REVISED
DRAWN	CS	CS	
DATE	REC	REC	
08/31/01		01/09/06	

NOTE:

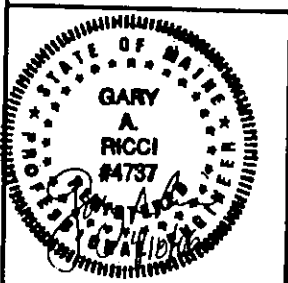
PRIMARY CONDUCTOR MUST
BE #4 OR LARGER.



DESIGNED	ORIGINAL
DRAWN	GRG
DATE	6/18/93



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

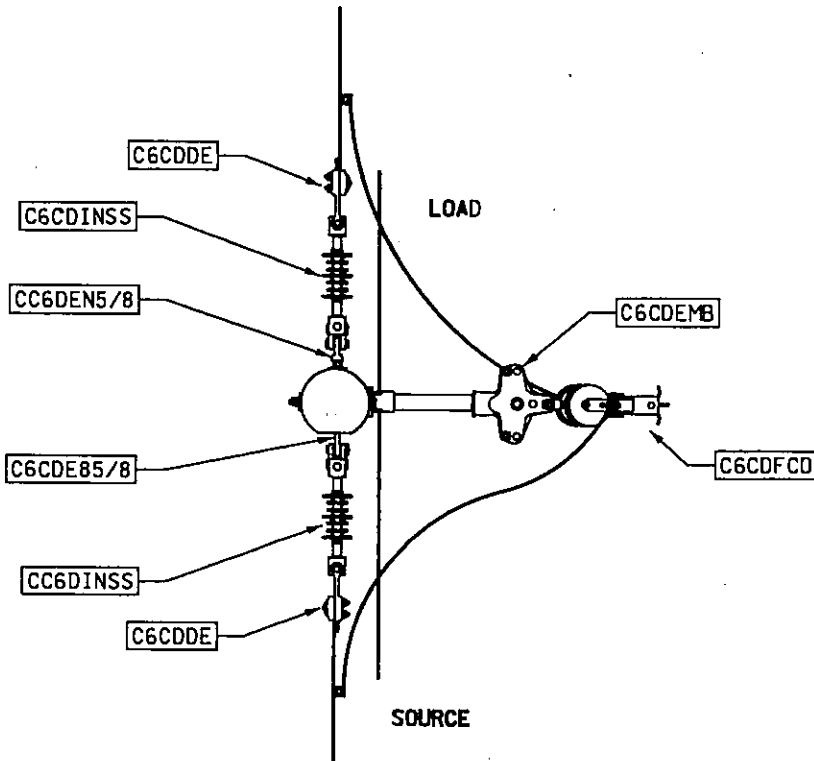
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	2	DEADENO COND GENERIC (SELECT FROM CUCT)	
		1 DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	1	EYE NUT ROUND 5/8 INCH	
		1 NUT EYE ROUND 5/8 TAP	6000273430
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDFCO	1	FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	2	SHACKLE 1/2IN W 5/8IN PIN	
		1 SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	2	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1 INSULATORS	6000310XXX

MACRO
C6MC1 SDDDE

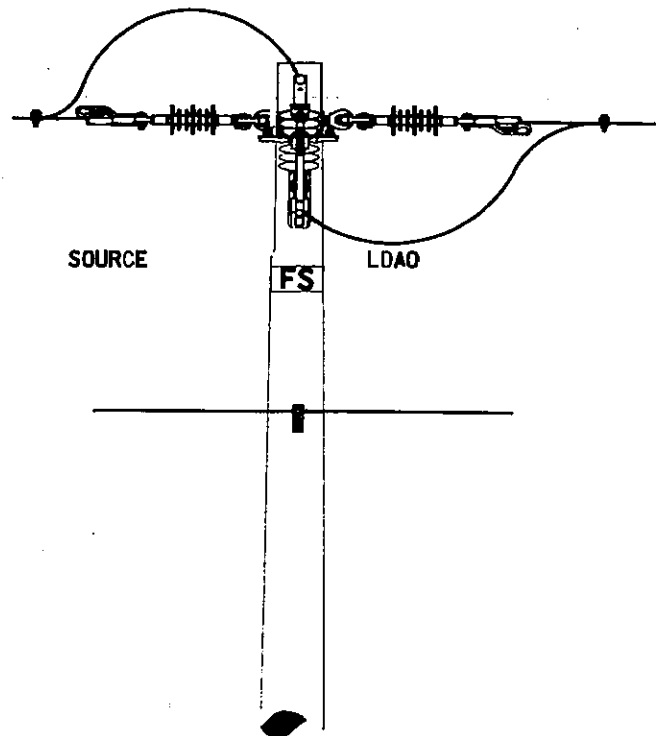
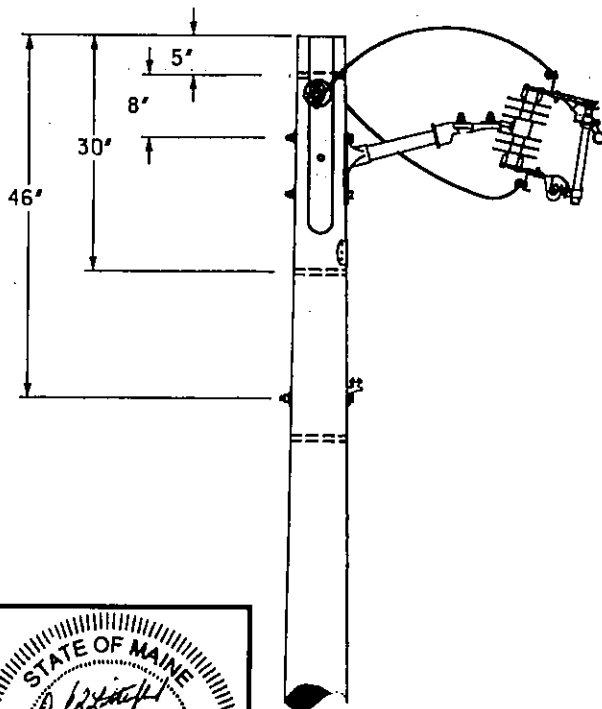
DESCRIPTION
1 PH SECTIONALIZING DISC. DBL DEADENDS

PAGE
321-2B

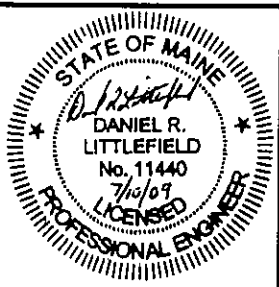
NO.	REVISION	DATE	BY
1	Restored shodding and neutral connection	07/10/09	



ORIGINAL	GRC
DESIGNED	
DRAWN	
DATE	6/22/93



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

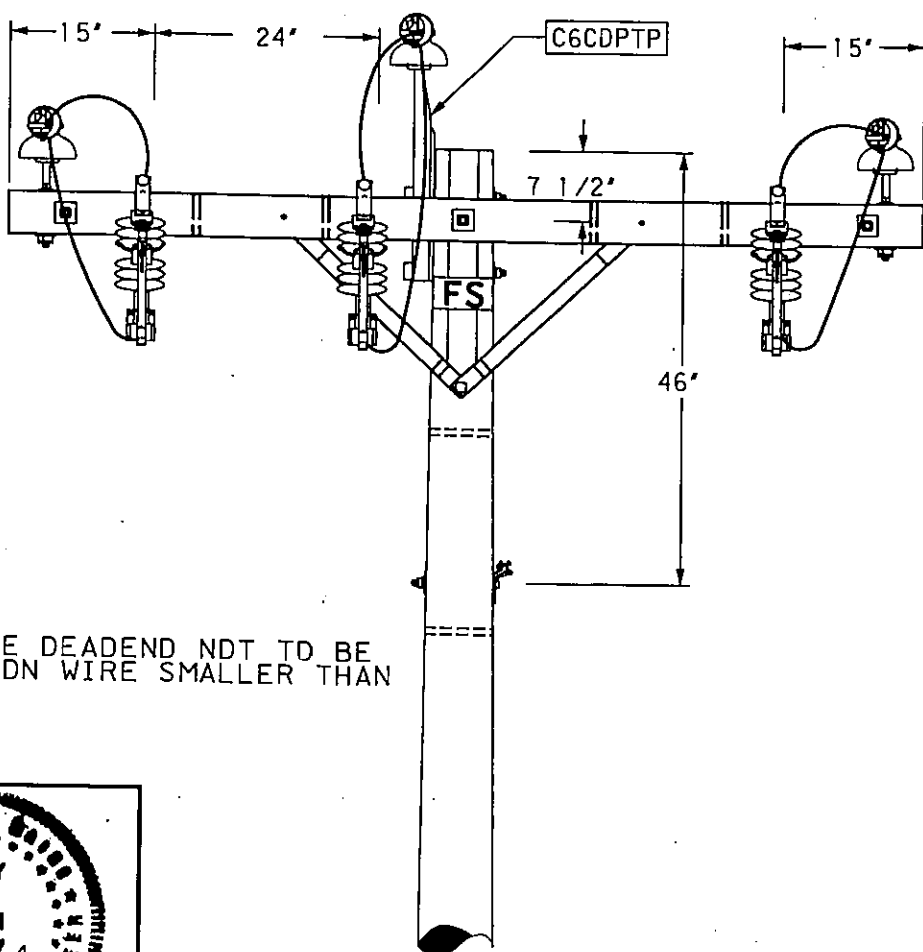
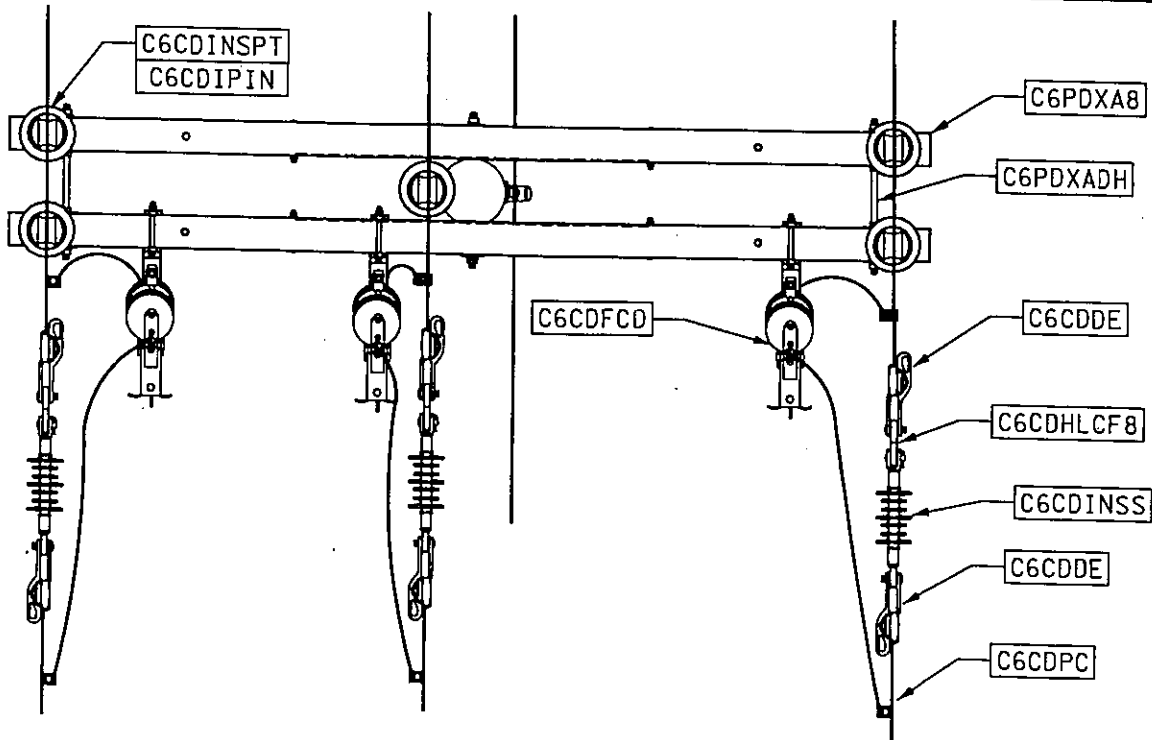
CU Number	Quantity - CU/Mat	Description	Material ID
CBCDDE	6	DEADEND COND GENERIC (SELECT FROM CUCT)	
	1	DEADEND PRI (SELECT FROM CUCT)	60001108XX
C6CDFCD	3	FUSED CUTOFF GENERIC (SELECT FROM CUCT)	
	1	FUSED CUTOFF (SELECT FROM CUCT)	6000491XXX
C6CDHLCF8	3	LINK CONNECTING FIGURE 8	
	1	LINK CONNECTING FIG 8	6000273410
C6CDINSPT	5	INSULATOR PIN TYPE GENERIC (SELECT FROM	
	1	INSULATORS	6000310XXX
C6CDINSS	3	INS DEADEND GENERIC (SELECT FROM CUCT)	
	1	INSULATORS	6000310XXX
C6CDIPIN	4	INSULATOR PINS VARIOUS SIZES LOBBY	
	1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
	1	WSH 2 TURN SPR GALV 5/8	6000274800
C6CDLAMB	3	XARM MOUNTING BRACKET	
	1	BKT EQUIP MTG CROSSARM	6000620100
C6CDN8	1	NEUTRAL BRACKET STEEL	
	4	TIE WIRE AL LOBBY	6000205XXX
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	WSH 2 TURN SPR GALV 5/8	6000274800
	1	WASHER,SQUARE,GALVANIZED ALL SIZES	60002746XX
	1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	POLE TOP PIN 24X1 3/8INCH	6000274170
	2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002746XX
	2	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
	1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDXA8	2	XARM, 6PIN8, 6FT	
	1	XARM 6PIN 6	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE DONLY	
	4	8 CARR GALV 3/8 X 5	6000270310
	3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
	2	B LAG GALV FET 1/2 X 4	6000272540
	4	BRACE XARM 26 IN	6000272870
	10	WASHER,SQUARE,GALVANIZED ALL SIZES	60002746XX
	9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC31LS/D12

DESCRIPTION
3 PHASE SECTIONALIZING DISC USING INLINE DEADENDS 12KV

PAGE
323-1 B

DESIGNED	JEC	CS	CS
DRAWN	GRG	REC	REC
DATE	4/12/93	08/31/01	11/2/28/05



NOTE:

INLINE DEADEND NDT TO BE USED DN WIRE SMALLER THAN #4

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

ORIGINAL	JEC
DRAWN	GRG
DATE	4/12/93



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

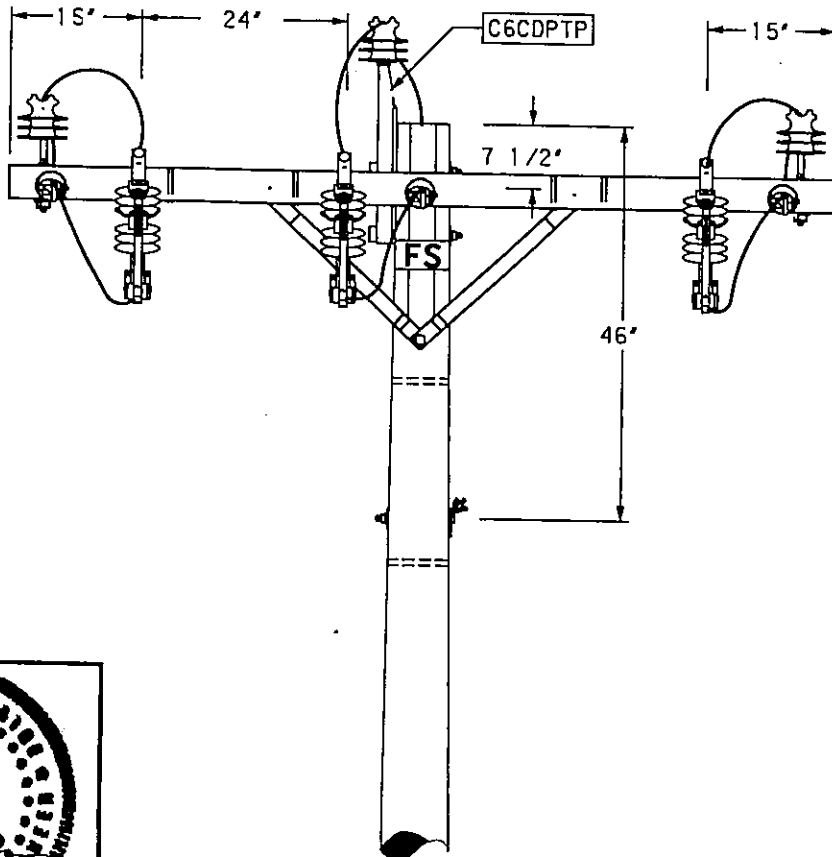
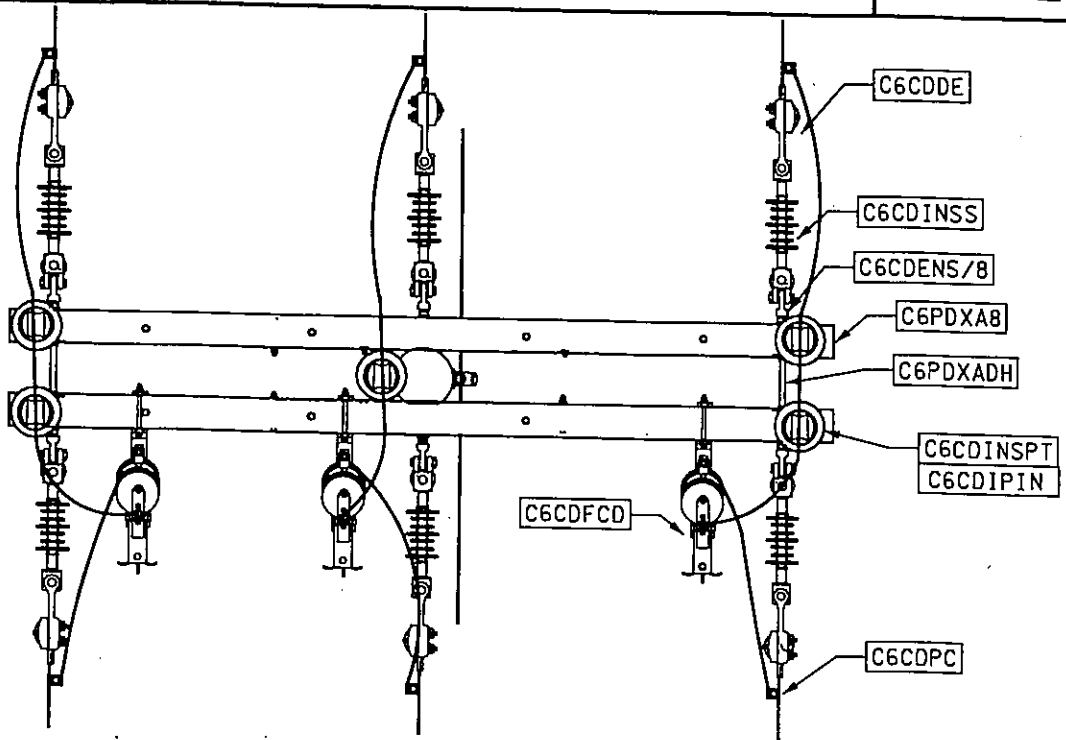
<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6CODE	6	DEADEND COND GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)
			60001106XX
C6CDEN5/8	6	EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP
			6000273430
		1	WSH 2 TURN SPR GALV 5/8
			6000274600
C6CDFCO	3	FUSED CUTOFF GENERIC (SELECT FROM CUCT)	
		1	FUSED CUTOFF (SELECT FROM CUCT)
			6000491XXX
C6COHS1/2	6	SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN
			6000274320
C6CDINSPT	5	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1	INSULATORS
			6000310XXX
C6CDINSS	6	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS
			6000310XXX
C6CDIPIN	4	INSULATOR PINS VARIOUS SIZES LOBBY	
		1	XARM PINS, USE APPROPRIATE SIZE
			6000273XXX
		1	WSH 2 TURN SPR GALV 5/8
			6000274600
C6CDLAMB	3	XARM MOUNTING BRACKET	
		1	BKT EQUIP MTG CROSSARM
			6000620100
C6CDNB	1	NEUTRAL BRACKET STEEL	
		4	TIE WIRE AL LOBBY
			6000205XXX
		1	BOLT, THRU 5/8 IN. ALL LENGTHS
			600027208X
		1	WSH 2 TURN SPR GALV 5/8
			6000274600
		1	WASHER, SQUARE, GALVANIZED ALL SIZES
			6000274BXX
		1	BKT NEUTRAL CLAMP STEEL
			6000620230
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		2	BOLT, THRU 5/8 IN. ALL LENGTHS
			600027208X
		1	POLE TOP PIN 24X1 3/8INCH
			6000274170
		2	WASHER, SQUARE, GALVANIZED ALL SIZES
			6000274BXX
		2	WASHER, GALV, TWO TURN SPRING ALL SIZES
			6000274XXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)
			600074XXXX
C6PDXA8	2	XARM, 6PINB, 8FT	
		1	XARM 6PIN B
			6000740510
C8PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		4	B CARR GALV 3/8 X 5
			6000270310
		3	BOLT, SPACE, 5/8 IN. ALL SIZES
			600027217X
		2	B LAG GALV FET 1/2 X 4
			6000272540
		4	BRACE XARM 28 IN
			6000272670
		10	WASHER, SQUARE, GALVANIZED ALL SIZES
			6000274BXX
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES
			6000274XXX

MACRO
C6MC3DDS/D12

DESCRIPTION
SECTIONALIZING DISC USING DOUBLE DEADENDS 12KV

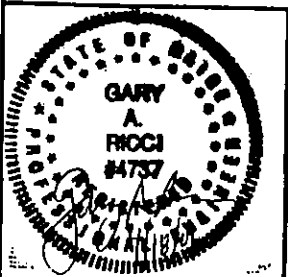
PAGE
323-2B

DESIGNED	JEC	REVIS	CS	REVISED	CS
DRAWN	GRG	REC	REC	REC	REC
DATE	6/20/94	08/31/01	01/09/06		



DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	7/27/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CQOE	6	DEADEND COND. GENERIC (SELECT FROM CUCT)	
		DEADEND PRL (SELECT FROM CUCT)	60001106XX
C6COHLCF8	3	LINK CONNECTING FIGURE 8	
		LINK CONNECTING FIG 8	6000273410
C6CDINSPT	6	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDINSS	3	INS DEADEND GENERIC (SELECT FROM CUCT)	
		INSULATORS	6000310XXX
C6CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPC	6	CONNECTOR, PRIMARY	
		CONNECTORS	600011XXXX
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		BDLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 24X1 3/8 INCH	6000274170
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV. TWO TURN SPRING ALL SIZES	6000274XXX
C6CDSAB15600HH	1	SW A/B 15KV 600A HORIZ HOOKSTICK MECH	
		CONNECTORS	600011XXXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		STAPLE F/ 1/2 IN MOLDING	6000274410
		WSH 2 TURN SPR GALV 5/8	6000274600
		WSH 2 TURN SPR GALV 3/4	6000274610
		WSHFLT GALV SQ 2 1/4 X 3 1/16	6000274810
		SW A/B 15KV 600A HORIZ MECH HOOKSTICK	6000640318
		WIRE NO. 4 CU GROUND BARE STRANDED S Q	751182
C6CDTC2E2-350	6	TERM CDNN 2 EYEBDLTS 2-350KCM CU 2 BOLT	
		CONN TERM 350CU-BAR	6000117976
C6COTW	36	TAP WIRE GENERIC (SELECT FROM CUCT)	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SELECT FROM CUCT)	600074XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4 X 8 FT	6000251860
		STAPLES GALV F/4 GRD WR	6000274402
		STAPLE F/ 1/2 IN MOLDING	6000274410
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA8	2	XARM, 6PIN, 8FT	
		XARM 6PIN 8	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV. TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3DX1AB12

DESCRIPTION
3. PH AIRBREAK SWITCH INLINE 12KV

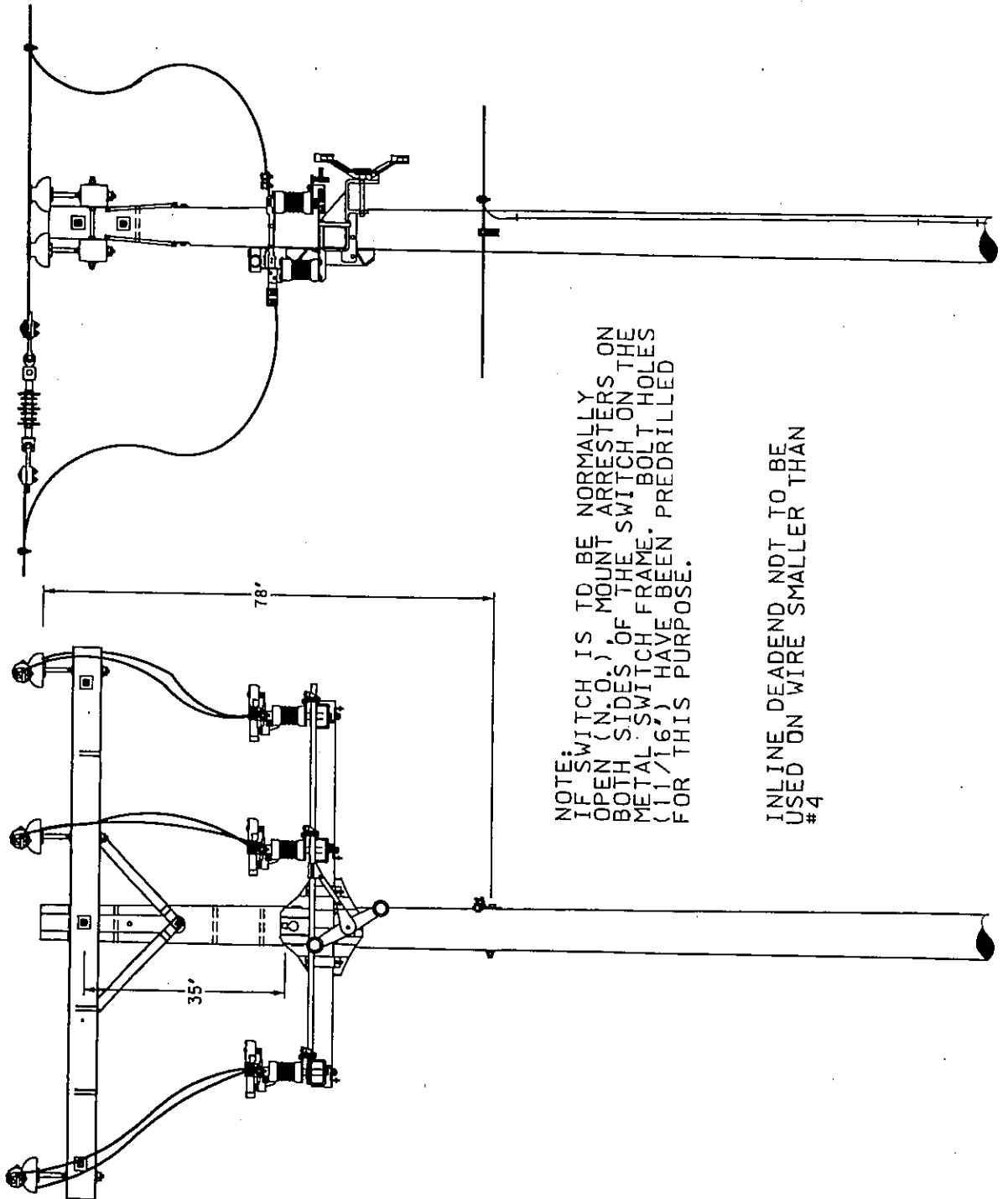
PAGE
324-1 B

DESIGNED	REVISED	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
08/31/01	08/31/01	01/09/06	



DESIGNED	ORIGINAL
DRAWN	HEP
DATE	GRC
05/02/90	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE: SWITCH IS TO BE NORMALLY OPEN (N.O.), MOUNT ARRESTERS ON BOTH SIDES OF THE SWITCH ON THE METAL SWITCH FRAME. BOLT HOLES (11/16") HAVE BEEN PREDRILLED FOR THIS PURPOSE.

INLINE DEADEND NOT TO BE USED ON WIRE SMALLER THAN #4



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Matl	Description	Material ID
C6CDDE	6	DEADEND COND. GENERIC (SELECT FROM CUCT)	
	1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDHLCFB	3	LINK CONNECTING FIGURE B	
	1	LINK CONNECTING FIG B	6000273410
C6CDINSPT27	6	INSULATOR PIN TYPE 27 KV LOBBY	
	5	TIE WIRE AL LOBBY	6000205XXX
	1	INS PIN TYPE 27KV	6000310419
C6CDINSS	3	INS DEADEND GENERIC (SELECT FROM CUCT)	
	1	INSULATORS	6000310XXX
C6CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
	1	XARM PINS. USE APPROPRIATE SIZE	6000273XXX
	1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
	4	TIE WIRE AL LOBBY	6000205XXX
	1	BOLT. THRU 5/8 IN. ALL LENGTHS	600027208X
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	1	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPC	6	CONNECTDR, PRIMARY	
	1	CONNECTORS	600011XXXX
C6CDSAB34600HK	1	SWITCH, 34KV, 600A, HORIZ INTRPT HOOKSTICK	
	2	CONNECTORS	600011XXXX
	6	BOLT. THRU 5/8 IN. ALL LENGTHS	600027208X
	2	BOLT. THRU 3/4 IN. ALL SIZES	60002721XX
	3	STAPLE F/ 1/2IN MOLDING	6000274410
	6	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WSH 2 TURN SPR GALV 3/4	6000274610
	6	WSHEL, GALV SQ 2, 1/4X3/16	6000274810
	1	SW A/B 35KV HOOK/HORIZ	6000640660
	4	WIRE NO. 4 CU GROUND BARE STRANDED S D	7511B2
C6CDTC2E2-350	6	TERM CONN 2 EYEBOLTS 2-350KCM CU 2 BOLT	
	1	CONN TERM 350CU-BAR	6000117976
C6CDTW	36	TAPWIRE GENERIC (SELECT FRDM CUCT)	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
	1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOLDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	7511B2
C6PDXAB	2	XARM, 6PIN, 8FT	
	1	XARM 6PIN B	6000740510
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
	4	B CARR GALV 3/8 X 5	6000270310
	3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
	2	B LAG GALV FET 1/2 X 4	6000272540
	4	BRACE XARM 2B IN	6000272670
	10	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	9	WASHER, GALV. TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3DX1AB34

DESCRIPTION
3 PH AIRBREAK SWITCH INLINE 34KV

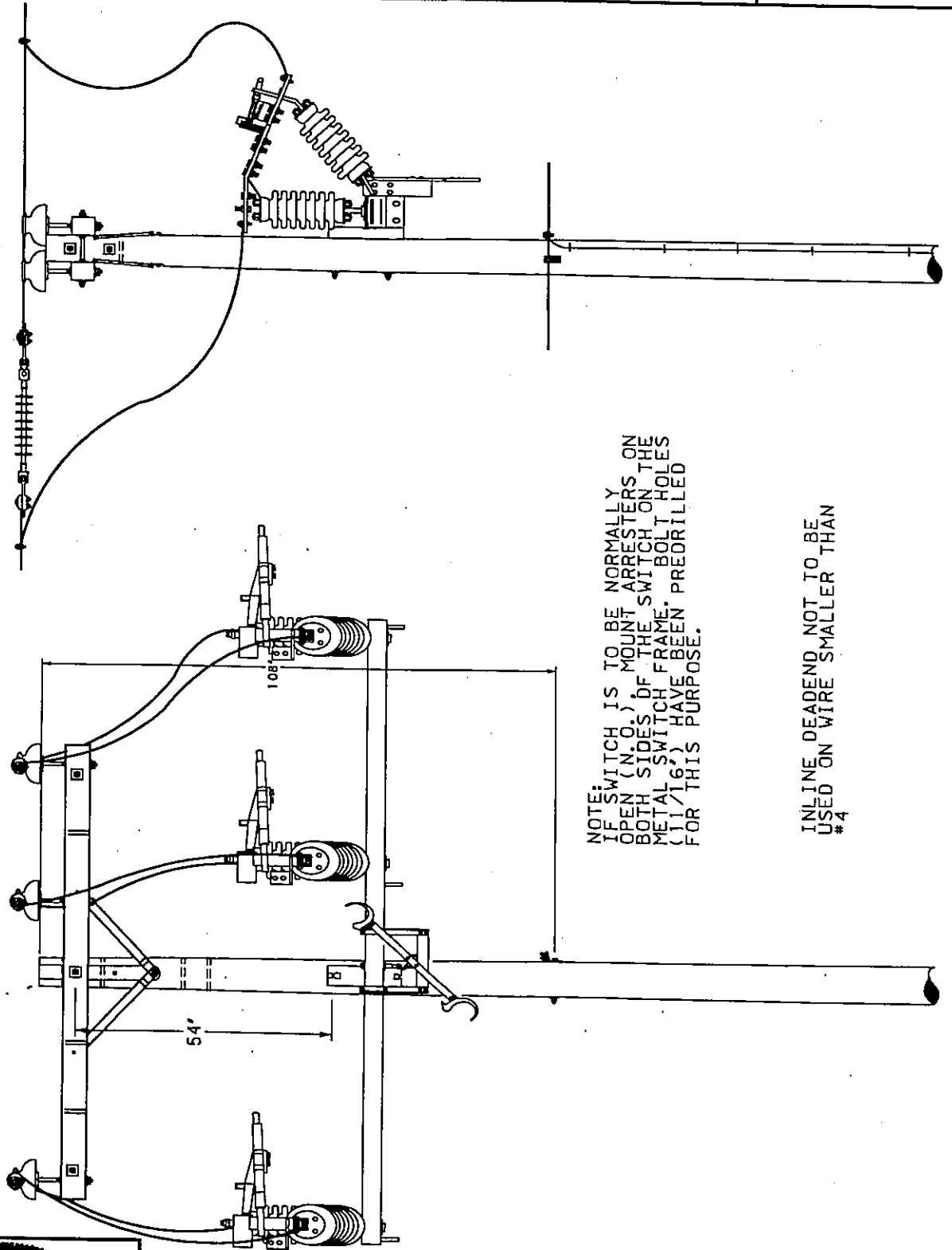
PAGE
324-2B

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/31/01	01/09/06	



DESIGNED	HEP	ORIGINAL
DRAWN	GRG	
DATE	05/02/90	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE: SWITCH IS TO BE NORMALLY
IF SW (N.O.) MOUNT ARRESTERS ON
BOTH SIDES OF THE SWITCH ON THE
METAL SWITCH FRAME. BOLT HOLES
(1 1/16") HAVE BEEN PREDRILLED
FOR THIS PURPOSE.

INLINE DEADEND NOT TO BE
USED ON WIRE SMALLER THAN
#4



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

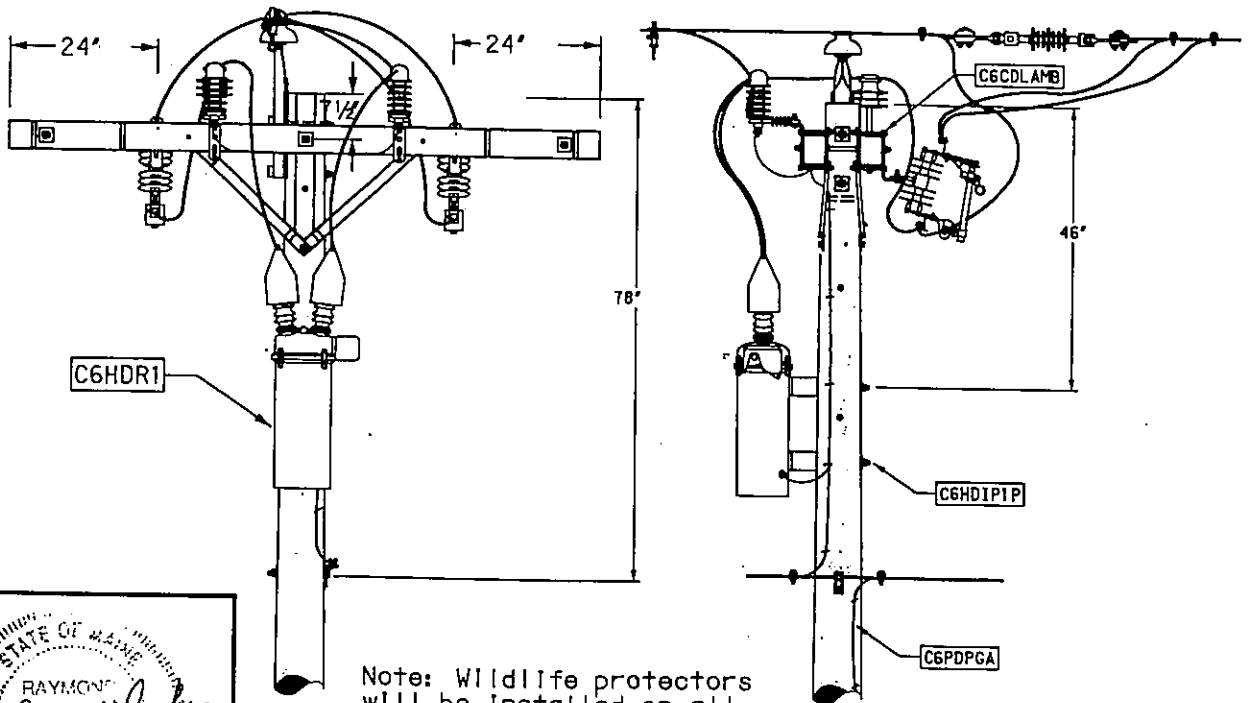
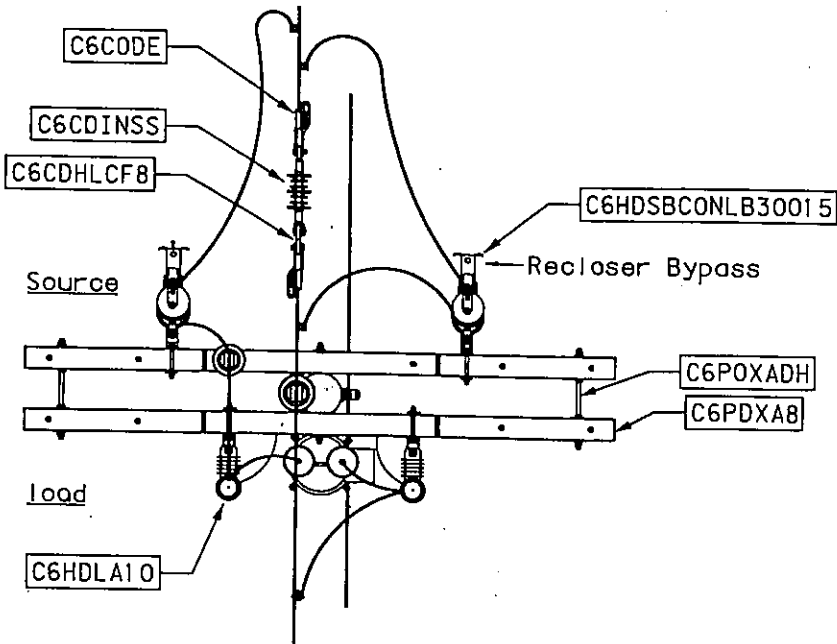
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDOE	2	DEADEND COND. GENERIC (SELECT FROM CUCT)	
		DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDHLCF8	1	LINK CONNECTING FIGURE 8	
		LINK CONNECTING FIG 8	6000273410
C6CDINSPT	1	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDINSS	2	INS DEADEND GENERIC (SELECT FROM CUCT)	
		INSULATORS	6000310XXX
C6COIPIN	1	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6COLAMB	4	XARM MOUNTING BRACKET	
		BKT EQUIP MTG CROSSARM	6000620100
C6HOIP1P	1	RECLOSER INST PKG, 1PH	
		CONNECTORS	600011XXXX
		15 WIRE #2 CU 7 STRAND SO RHW USE OR RHH	6000207360
		2 BOLT, THRU 5/8 IN, ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE GALVANIZED ALL SIZES	60002748XX
		2 WILDLIFE PROTECTOR	60003128XX
		1 OH COND SIGNS & SWITCH NUMBERS	60008256XX
		5 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6HOLA10	2	LIGHTNING ARRESTOR 10KV FOR RECLOSER	
		3 WIRE #2 CU 7 STRAND SO RHW USE OR RHH	6000207360
		4 STAPLES GALV F/4 GRD WR	6000274402
		1 ARR QIST 10KV	6000490060
		3 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6HOR1	1	RECLOSER GENERIC 1PH (SELECT FROM CUCT)	
		GENERIC RECLOSER (SELECT FROM CUCT)	600052050X
C6HOSBCONLB30015	2	SOLID BLADE CUTOUT N L/B 300A 15KV RECLS	
		10 WIRE #2 CU 7 STRAND SO RHW USE OR RHH	6000207360
		1 C/O N/LB BODY ONLY 15KV	6000491805
		1 C/O O/QOR SOLID BLADE 15KV 300A NON LOAD	751566
C6PDPGA	1	POLE GROUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		8 Moulding PLAS 1/2 IN GR	6000251660
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		6 STAPLE F/ 1/2IN MOLDING	6000274410
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6POXA6	2	XARM, 6PIN, 8FT	
		XARM 6PIN 8	6000740510
C6POXA0H	1	XARM, DOUBLE, HARDWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN, ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 28 IN	6000272670
		10 WASHER, SQUARE GALVANIZED ALL SIZES	60002748XX
		9 WASHER, GALV, TWQ TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MHIPT4UP1L

DESCRIPTION
1 PH RECL INST #4 COND & UP IN LINE

PAGE
325-1B

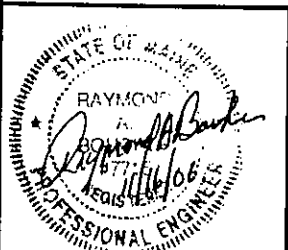
DESIGNED	CS	REVISER	CS	REVISION
DRAWN	REC	REVISER	REC	REVISION
DATE	10/05/01	DATE	11/18/06	



Note: Wildlife protectors will be installed on all recloser bushings

DESIGNED	GRG	REVISION	
DRAWN	GRG	REVISION	
DATE	9/26/95		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

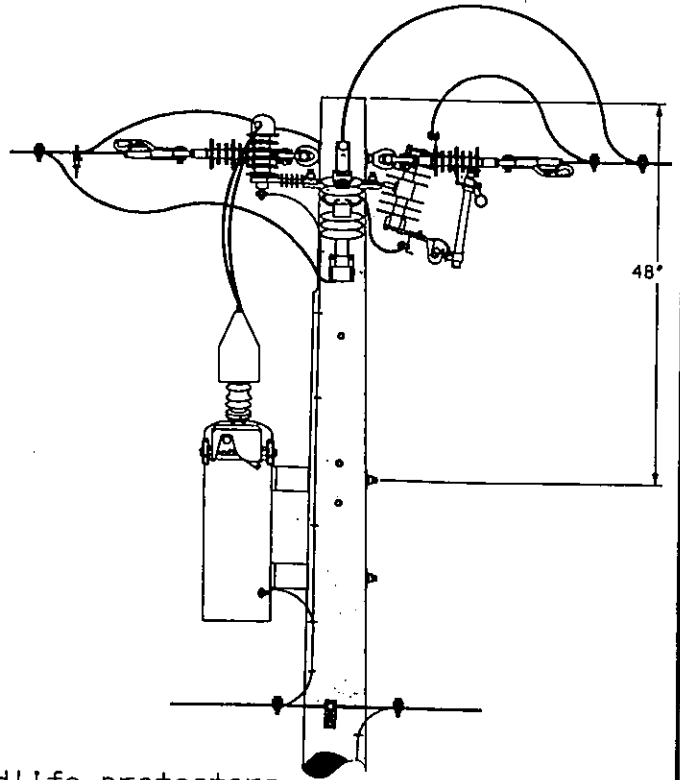
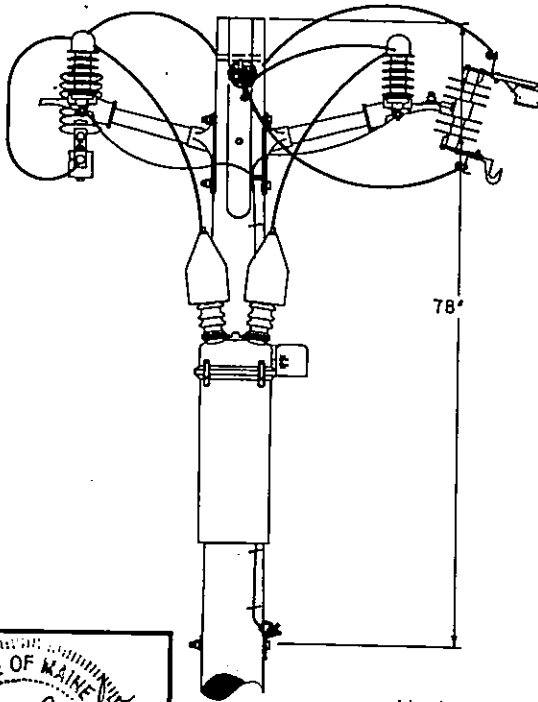
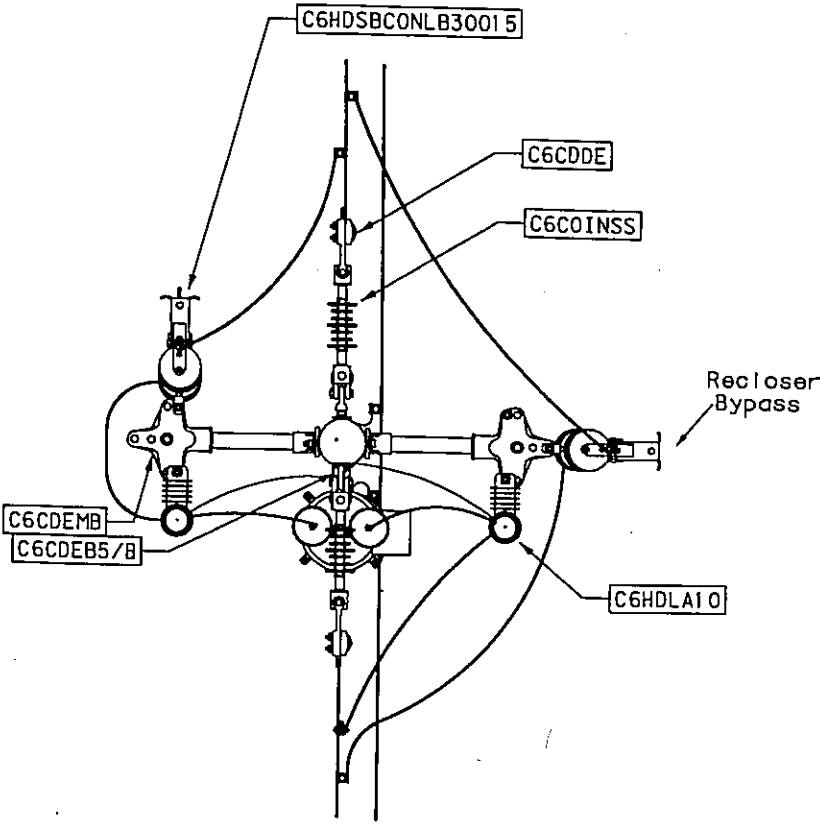
DISTRIBUTION CONSTRUCTION STANDARDS



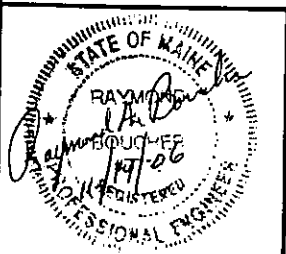
Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>		<i>Description</i>	<i>Material ID</i>
C6CDDE	2		DEADEND CONO GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6COEB5/8	1		EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6COEMB	2		EQUIP MOUNTING BRACKET 18IN	
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1	BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	1		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDINSS	2		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6HDIP1P	1		RECLOSER INST PKG, 1PH	
		1	CONNECTORS	600011XXXX
		15	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		2	WILDLIFE PROTECTOR	60003128XX
		1	OH COND SIGNS & SWITCH NUMBERS	60008256XX
		5	WIRE NO. 4 CU GRDUNG BARE STRANDED S D	751182
C6HDLA10	2		LIGHTNING ARRESTOR 10KV FOR RECLOSER	
		3	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		4	STAPLES GALV F/4 GRD WR	6000274402
		1	ARR QIST 10KV	6000490060
		3	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6HDR1	1		RECLOSER GENERIC 1PH (SELECT FROM CUCT)	
		1	GENERIC RECLOSER (SELECT FROM CUCT)	600052050X
C6HDSBCONLB30015	2		SOLID BLADE CUTOFF N L/B 300A 15KV RECLS	
		10	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		1	C/O N/LB BODY ONLY 15KV	6000491805
		1	C/O DOOR, SOLID BLADE 15KV 300A NON LOAO	751566
C6PDPGA	1		POLE GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		8	MOULDING PLAS 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		6	STAPLE F/ 1/2IN MOLDING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

DESIGNED	CS	REVISOR	REVISOR	DATE
DRAWN	REC	CS	REC	11/07/01
DATE	11/07/01	07/10/06		



Note: Wildlife protectors will be installed on all recloser bushings



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	HEPJ
DRAWN	
DATE	5/2/90



Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat		Description	Material ID
C6CDDE	4	1	OEAEND COND. GENERIC (SELECT FROM CUCT) DEAOEND PRI (SELECT FROM CUCT)	60001106XX
C6CDHLCF8	2	1	LINK CONNECTING FIGURE 8 LINK CONNECTING FIG 8	6000273410
C6CDINSPT	4	1	INSULATOR PIN TYPE GENERIC (SELECT FROM INSULATORS	6000310XXX
C6CDINSS	2	1	INS OEAEND GENERIC (SELECT FROM CUCT) INSULATORS	6000310XXX
C6CDIPIN	4	1	INSULATOR PINS VARIOUS SIZES LOBBY XARM PINS, USE APPROPRIATE SIZE	6000273XXX
C6CONB	1	1	WSH 2 TURN SPR GALV 5/8 NEUTRAL BRACKET STEEL	6000274600
		4	TIE WIRE AL LOBBY	6000205XXX
		1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		1	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CQTW	15	1	TAPWIRE GENERIC (SELECT FROM CUCT) TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6HDIP2P	1	4	RECLOSER INST PKG 2 1PHASE CONNECTORS	600011XXXX
		30	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		4	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		4	WSH 2 TURN SPR GALV 5/8	6000274600
		4	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		4	WILDLIFE PROTECTOR	60003128XX
		2	OH COND SIGNS & SWITCH NUMBERS	60008256XX
		10	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6HDLA10	4	3	LIGHTNING ARRESTOR 10KV FOR RECLOSER WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		4	STAPLES GALV F/4 GRD WR	6000274402
		1	ARR DIST 10KV	6000490060
		3	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6HDR1	2	1	RECLOSER GENERIC 1PH (SELECT FROM CUCT) GENERIC RECLOSER (SELECT FROM CUCT)	600052050X
C6HOSBCONLB30015	4	10	SOLID BLADE CUTOFF N L/B 300A 15KV RECLS WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		1	C/O N/LB BODY ONLY 15KV	6000491805
		1	C/O DOOR SOLID BLADE 15KV 300A NON LOAD	751566
C6PDPGA	1	1	POLE GROUND ASSEMBLY CONN GRO ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		6	MOULDING PLAS 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		6	STAPLE F/ 1/2IN MOLOING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA8	3	1	XARM, 6PIN, 8FT XARM, 6PIN, 8	6000740510
C6PDXADH	1	4	XARM, DOUBLE, HARDWARE ONLY B CARR GALV 3/8 X 5	6000270310
		3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2	B LAG GALV FET 1/2 X 4	6000272540
		4	BRACE XARM 28 IN	6000272670
		10	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PDXASH	1	2	XARM, SINGLE, HARDWARE ONLY B CARR GALV 3/8 X 5	6000270310
		1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1	B LAG GALV FET 1/2 X 4	6000272540
		2	BRACE XARM 28 IN	6000272670
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		3	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MH21 DX1

DESCRIPTION
2 SINGLE PH RECL INST IN LINE DBL YARM

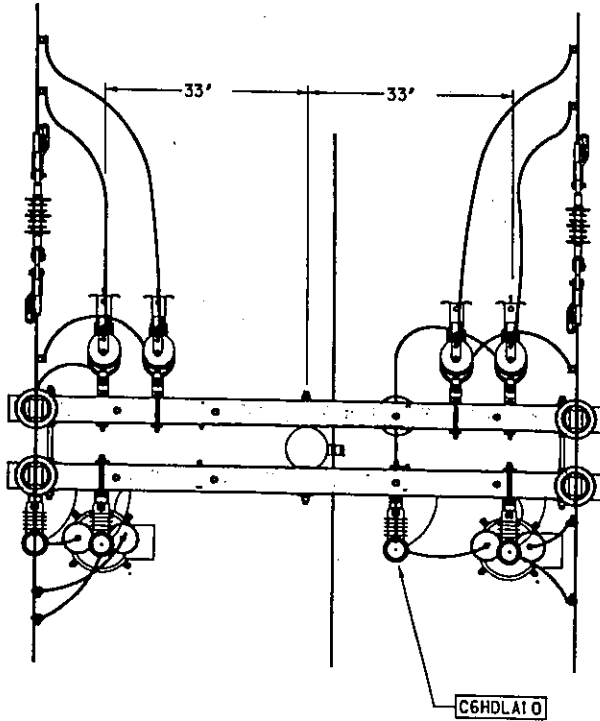
PAGE
325-3B

DESIGNED	REVISOR	REVISION	DATE
CS	CS		
DRAWN	REC		
DATE	08/31/01		11/18/06



ORIGINAL	GLG
DESIGNED	HEPJ
DRAWN	5/2/90
DATE	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

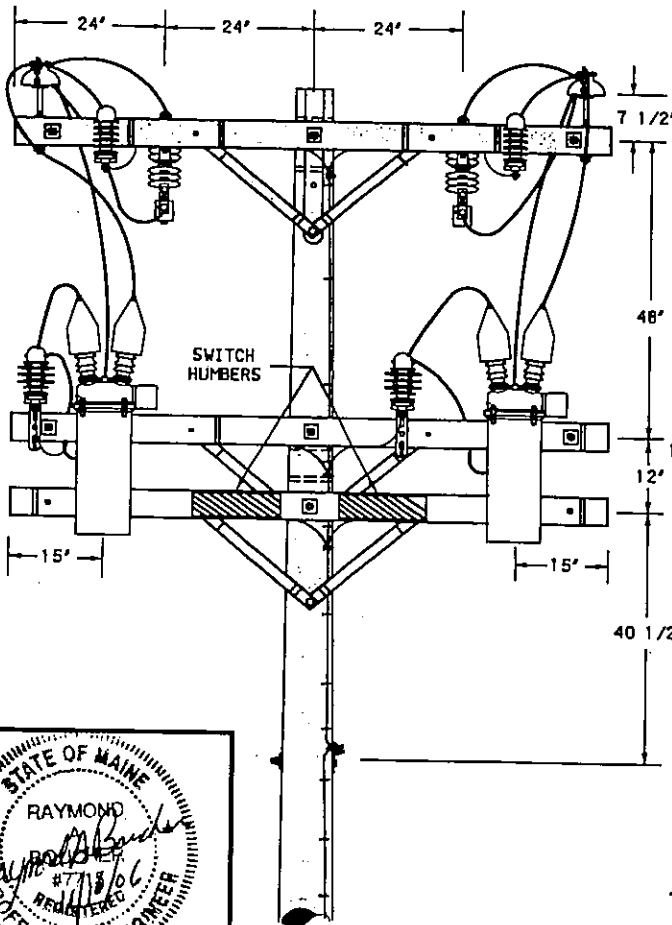


SOURCE

NOTE:

In line dead ends shall not be used on wire smaller than #4.

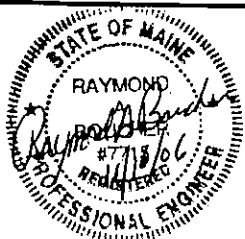
LOAD



By-pass cutout

LOAD

SOURCE



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CQINSPT	6	INSULATOR PIN TYPE GENERIC (SELECT FROM	
	1	INSULATORS	6000310XXX
C6CQIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
	1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
	1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDLAMB	6	XARM MOUNTING BRACKET	
	1	BKT EQUIP MTG CROSSARM	6000620100
C6CDNB	1	NEUTRAL BRACKET STEEL	
	4	TIE WIRE AL LOBBY	6000205XXX
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	1	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDSBIL	3	INLINE DISCONNECT GENERIC (SELECT FROM C	
	1	SOLID BLADE CUTOUT DR DISCONNECT GENERIC	600049062X
C8CQTW	30	TAPWIRE GENERIC (SELECT FROM CUCT)	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6HDIP3P	1	RECLOSER INST PKG. 3PH	
	5	CONNECTORS	600011XXXX
	2	TAP WIRE (SELECT FROM CUCT)	600020XXXX
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	6	WILDLIFE PROTECTOR	60003128XX
	1	OH COND SIGNS & SWITCH NUMBERS	60008256XX
	5	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6HDLA10	6	LIGHTNING ARRESTOR 10KV FOR RECLOSER	
	3	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
	4	STAPLES GALV F/4 GRD WR	6000274402
	1	ARR DIST 10KV	6000490060
	3	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6HDR3	1	RECLOSER GENERIC (SELECT FROM CUCT)	
	1	GENERIC RECLOSER (SELECT FROM CUCT)	600052050X
C6HDRH	1	RECLOSER HANGER BRACKET GENERIC	
	1	RECLOSER HANGER BRACKET GENERIC	600052061X
C6HQSBCONLB30015	3	SOLID BLADE CUTOUT N L/B 300A 15KV RECLS	
	10	WIRE #2 CU 7 STRAND SD RHW USE DR RHH	6000207360
	1	C/O N/LB BODY ONLY, 15KV	6000491805
	1	C/O DOOR SOLID BLADE 15KV 300A NON LOAD	751566
C6PQPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA8	2	XARM, 6PIN, BFT	
	1	XARM 6PIN B	6000740510
C6POXADH	1	XARM, DOUBLE, HARDWARE ONLY	
	4	B CARR GALV 3/8 X 5	6000270310
	3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
	2	B LAG GALV FET 1/2 X 4	6000272540
	4	BRACE XARM 28 IN	6000272670
	10	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MH31D1 2

DESCRIPTION
3 PH RECL 12KV INLINE DISC 1/0 AND 336

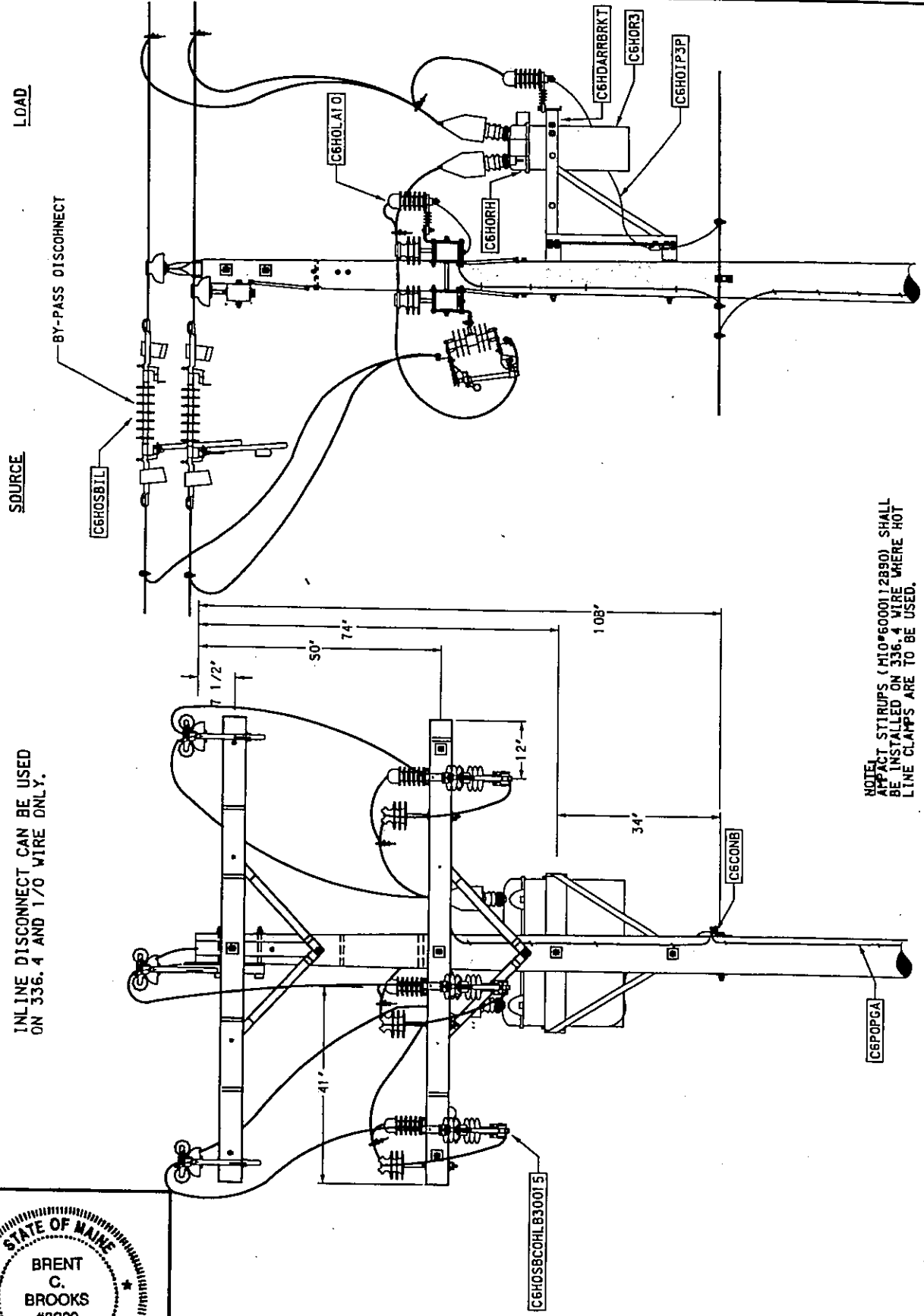
PAGE
325-4B

DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
10/03/01	12/06/06		



DESIGNED	HEP	ORIGINAL
DRAWN	GRG	
DATE	05/02/90	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



INLINE DISCONNECT CAN BE USED
ON 336. 4 AND 1/0 WIRE ONLY.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

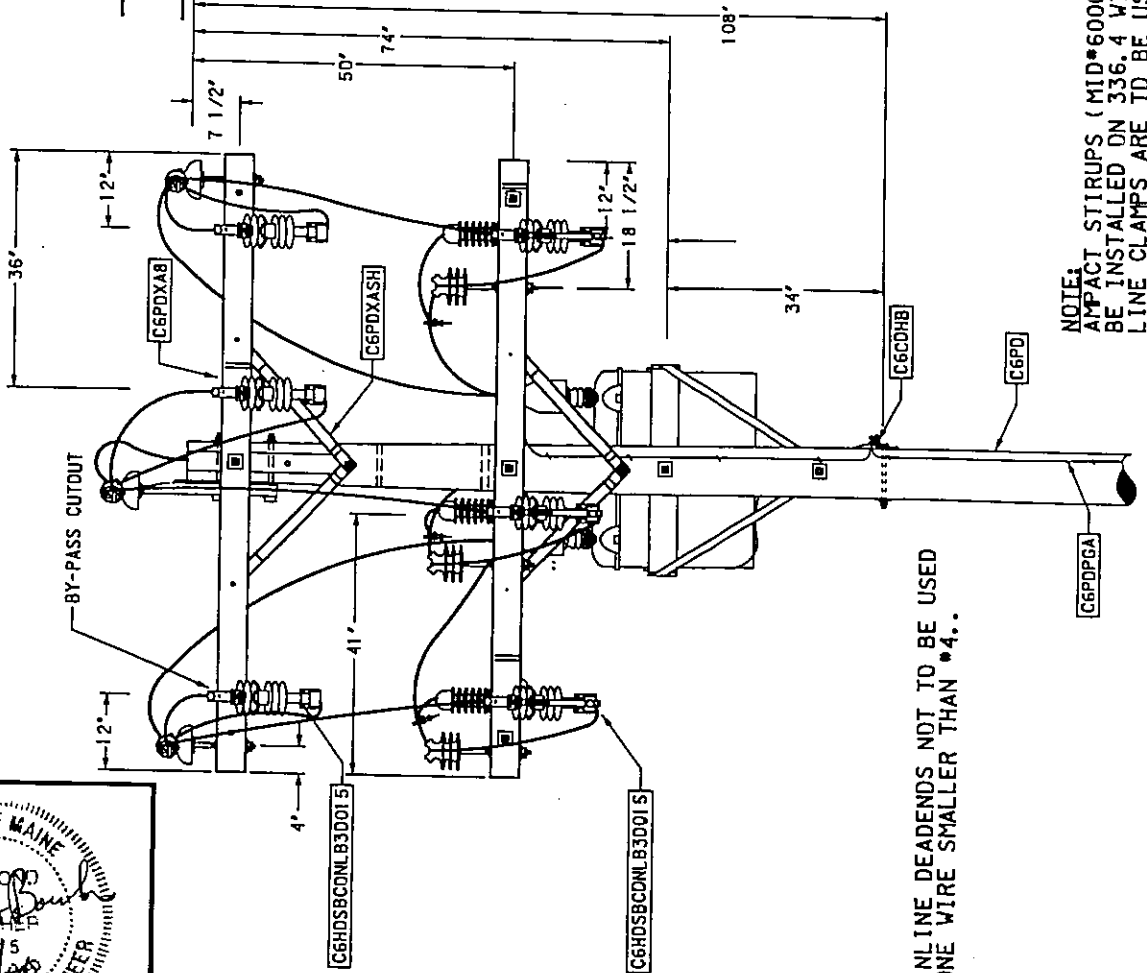
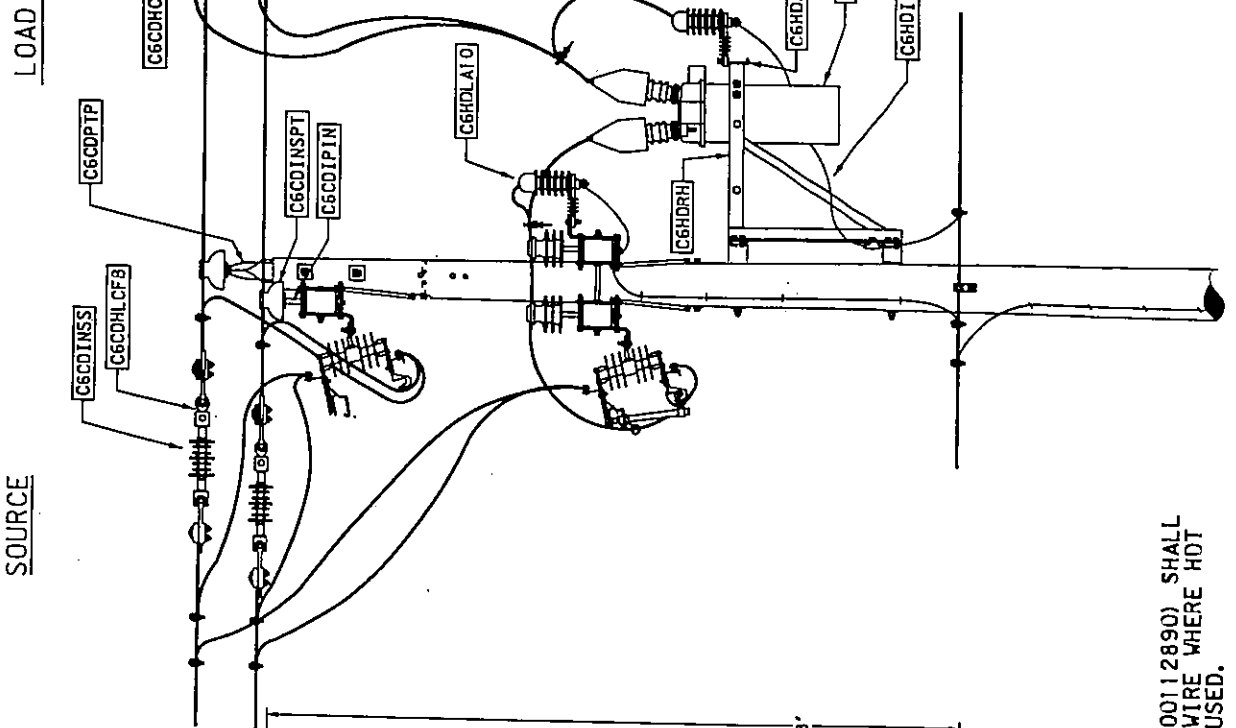
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDE	6	DEADEND COND. GENERIC (SELECT FROM CUCT)	
	1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6COHLDF8	3	LINK CONNECTING FIGURE 8	
	1	LINK CONNECTING FIG 8	6000273410
C6CDINSPT	9	INSULATOR PIN TYPE GENERIC (SELECT FROM	
	1	INSULATORS	6000310XXX
C6CDINS5	3	INS DEADEND GENERIC (SELECT FROM CUCT)	
	1	INSULATORS	6000310XXX
C6CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
	1	XARM PINS. USE APPROPRIATE SIZE	6000273XXX
	1	WSH 2 TURN SPR GALV 5/8	6000274600
C6COLAMB	9	XARM MOUNTING BRACKET	
	1	BKT EQUIP MTG CROSSARM	6000620100
C6C0NB	1	NEUTRAL BRACKET STEEL	
	4	THE WIRE AL LOBBY	6000205XXX
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	1	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPC	3	CONNECTOR PRIMARY	
	1	CONNECTORS	600011XXXX
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	POLE TOP PIN 24X1 3/8 INCH	6000274170
	2	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	2	WASHER GALV TWO TURN SPRING ALL SIZES	6000274XXX
C6COTW	40	TAP WIRE GENERIC (SELECT FROM CUCT)	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6HDARRBRKT	1	RECLOSER ARRESTER MOUNTING BRACKET	
	1	BKT ARR 3UNIT FIRECLOS	6000491400
C6HDIP3P	1	RECLOSER INST PKG, 3PH	
	5	CONNECTORS	600011XXXX
	2	TAP WIRE (SELECT FROM CUCT)	600020XXXX
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	6	WILDLIFE PROTECTOR	60003128XX
	1	OH COND SICNS & SWITCH NUMBERS	60008256XX
	5	WIRE NO. 4 CU GROUND BARE STRANDED S O	751182
C6HOLA10	6	LIGHTNING ARRESTOR 10KV FOR RECLOSER	
	3	WIRE #2 CU 7 STRAND SO RHW USE OR RHH	6000207360
	4	STAPLES GALV F4 GRD WR	6000274402
	1	ARR DIST 10KV	6000490060
	3	WIRE NO. 4 CU GROUND BARE STRANDED S O	751182
C6HDR3	1	RECLOSER GENERIC (SELECT FROM CUCT)	
	1	GENERIC RECLOSER (SELECT FROM CUCT)	600052050X
C6HDRH	1	RECLOSER HANGER BRACKET GENERIC	
	1	RECLOSER HANGER BRACKET GENERIC	600052001X
C6HDSBCONLB30015	6	SOLID BLADE CUTOUT N L/B 300A 15KV RECLS	
	10	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
	1	C/O N/LB BODY ONLY 15KV	6000491805
	1	C/O DOOR SOLID BLADE 15KV 300A NON LOAD	751566
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
	1	POLES (SELECT FROM CUCT)	600074XXXX
C6PDPCA	1	POLE GROUND ASSEMBLY	
	1	CONN GRO ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	6	MOULDING PLAS 1/2 IN GR	6000251660
	1	ROD GROUND GALV 3/4X8FT	6000251660
	9	STAPLES GALV F4 GRD WR	6000274402
	6	STAPLE F1 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S O	751182
C6POXAB	3	XARM, 8PIN, 8FT	
	1	XARM 8PIN 8	6000740510
C6PDXA0H	1	XARM, DOUBLE, HARDWARE ONLY	
	4	B CARR GALV 3/8 X 5	6000270310
	3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
	2	B LAG GALV FET 1/2 X 4	6000272540
	4	BRACE XARM 28 IN	6000272670
	10	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	9	WASHER GALV TWO TURN SPRING ALL SIZES	6000274XXX
C6PDXASH	1	XARM, SINGLE, HARDWARE ONLY	
	2	B CARR GALV 3/8 X 5	6000270310
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	B LAG GALV FET 1/2 X 4	6000272540
	2	BRACE XARM 28 IN	6000272670
	2	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	3	WASHER GALV TWO TURN SPRING ALL SIZES	6000274XXX

DESIGNED	REVISOR	REVISION	DATE
JEC	CS		
GRG	REC		
3/7/95	09/10/01		07/11/06

DESIGNED	REVISOR	REVISION	DATE
GRG	CS		
11/19/93			

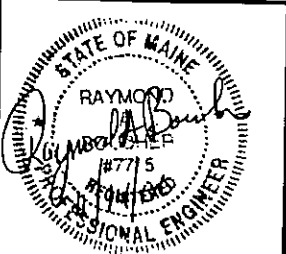


THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
IMPACT STIRUPS (MID*6000112890) SHALL
BE INSTALLED ON 336.4 WIRE WHERE HOT
LINE CLAMPS ARE TO BE USED.

INLINE DEADENDS NDT TO BE USED
ONE WIRE SMALLER THAN #4.



Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat		Description	Material ID
C6CDDE	6		DEADEND.COND. GENERIC.(SELECT.FROM.CUCT)	
		1	DEADEND.PRI.(SELECT.FROM.CUCT)	60001106XX
C6CDEN5/8	6		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	6		SHACKLE 1/2 IN W/5/8 IN PIN	
		1	SHACKLE 1/2 IN W/5/8 PIN	6000274320
C6CDINSPT	12		INSULATOR PIN TYPE GENERIC.(SELECT.FROM	
		1	INSULATORS	6000310XXX
C6CDINSS	6		INS.DEADEND.GENERIC.(SELECT.FROM.CUCT)	
		1	INSULATORS	6000310XXX
C6CDIPIN	12		INSULATOR PINS VARIOUS SIZES LOBBY	
		1	XARM PINS USE APPROPRIATE SIZE	6000273XXX
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDLAMB	9		XARM MOUNTING BRACKET	
		1	BKT EQUIP.MTG.CROSSARM	6000620100
C6CDNB	1		NEUTRAL BRACKET STEEL	
		4	TIE WIRE AL LOBBY	6000205XXX
		1	BOLT THRU 5/8 IN. ALL LENGTHS	600027208X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		1	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		1	BKT.NEUTRAL CLAMP STEEL	6000620230
C6CDPC	6		CONNECTOR,PRIMARY	
		1	CONNECTORS	600011XXXX
C6CDTW	40		TAP WIRE GENERIC.(SELECT.FROM.CUCT)	
		1	TAP WIRE.(SELECT.FROM.CUCT)	600020XXXX
C6HDARBBRKT	1		RECLOSER ARRESTER MOUNTING BRACKET	
		1	BKT.ARR.3UNIT.F/RECLOS	6000491400
C6HDIP3P	1		RECLOSER INST.PKG. 3PH	
		5	CONNECTORS	600011XXXX
		2	TAP WIRE.(SELECT.FROM.CUCT)	600020XXXX
		2	BOLT,THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		6	WILDLIFE PROTECTOR	60003126XX
		1	OH.COND.SIGNS & SWITCH NUMBERS	60006256XX
		5	WIRE NO. 4 CU GROUND BARE STRANDED S.D	751182
C6HDLA10	6		LIGHTNING ARRESTOR 10KV.FDR RECLOSER	
		3	WIRE #2 CU 7 STRAND SD_RHW USE OR RHH	6000207360
		4	STAPLES GALV.F/4 GRD.WR	6000274402
		1	ARR.DIST.10KV	6000490060
		3	WIRE NO. 4 CU GROUND BARE STRANDED S.D	751182
C6HDR3	1		RECLOSER GENERIC.(SELECT.FROM.CUCT)	
		1	GENERIC RECLOSER.(SELECT.FROM.CUCT)	600052050X
C6HDRH	1		RECLOSER HANGER BRACKET GENERIC	
		1	RECLOSER HANGER BRACKET GENERIC	600052061X
C6HDSBCONLB30015	6		SOLID BLADE CUTOUT N.L/B.300A.15KV.RECLS	
		10	WIRE #2 CU 7 STRAND SD_RHW USE OR RHH	6000207360
		1	C/O.N/LB BODY ONLY 15KV	6000491805
		1	C/O.DOOR.SOLID.BLADE.15KV.300A.NON.LOAD	751566
C6PD	1		POLE GENERIC.(SELECT.FROM.CUCT)	
		1	POLES.(SLECT.FROM.CUCT)	600074XXXX
C6PDPGA	1		POLE.GROUND.ASSEMBLY	
		1	CONN.GRD.ROQ.3/4 IN.	6000112662
		1	CONNECTORS	600011XXXX
		8	MOULDING.PLAS.1/2 IN.GR	6000251680
		1	ROD.GROUND.GALV.3/4X8FT	6000251860
		9	STAPLES GALV.F/4 GRD.WR	6000274402
		6	STAPLE F/1/2 IN.MOLDING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S.D	751182
C6PDXA8	4		XARM 6PIN.8FT	
		1	XARM.6PIN.8	6000740510
C6PDXADH	2		XARM.DOUBLE.HARDWARE ONLY	
		4	B CARR GALV.3/8 X 5	6000270310
		3	BOLT SPACE, 5/8 IN. ALL SIZES	600027217X
		2	B LAG GALV.FEET 1/2 X 4	6000272540
		4	BRACE XARM.28 IN.	6000272670
		10	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		9	WASHER, GALV.TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MH3DDE12

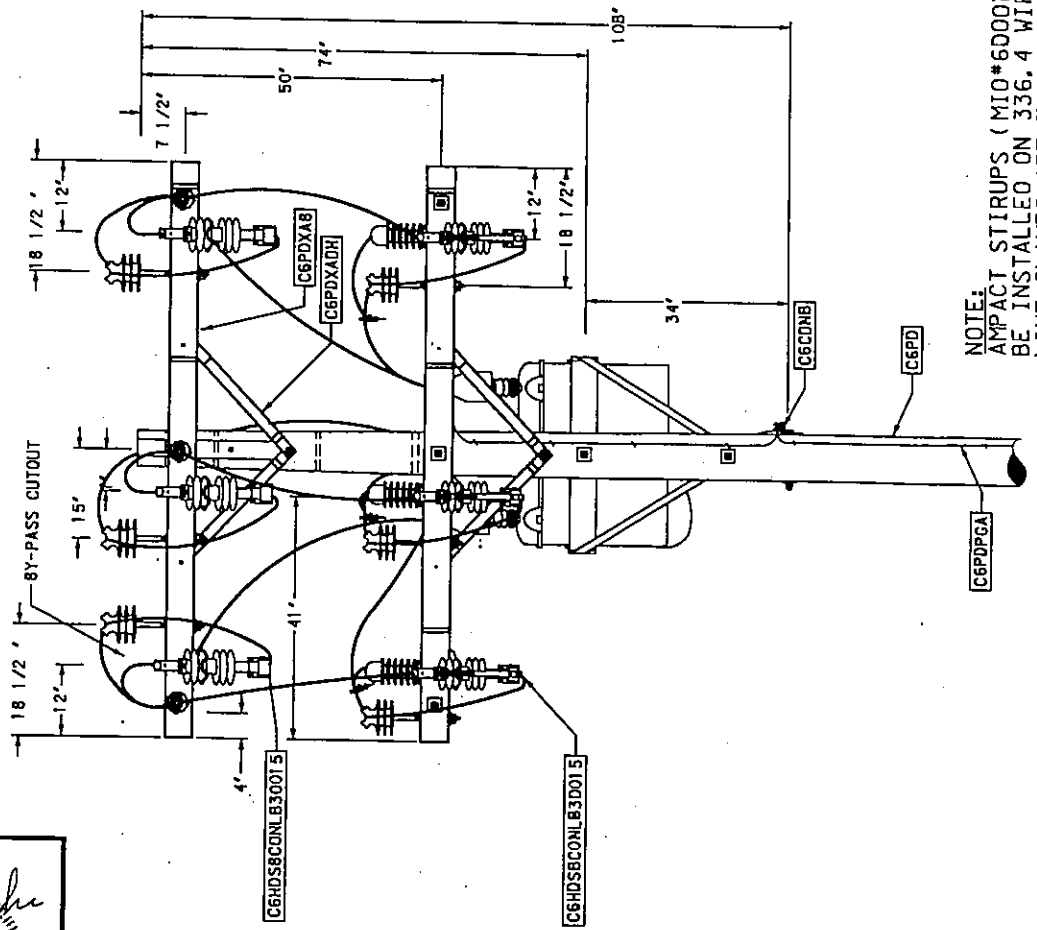
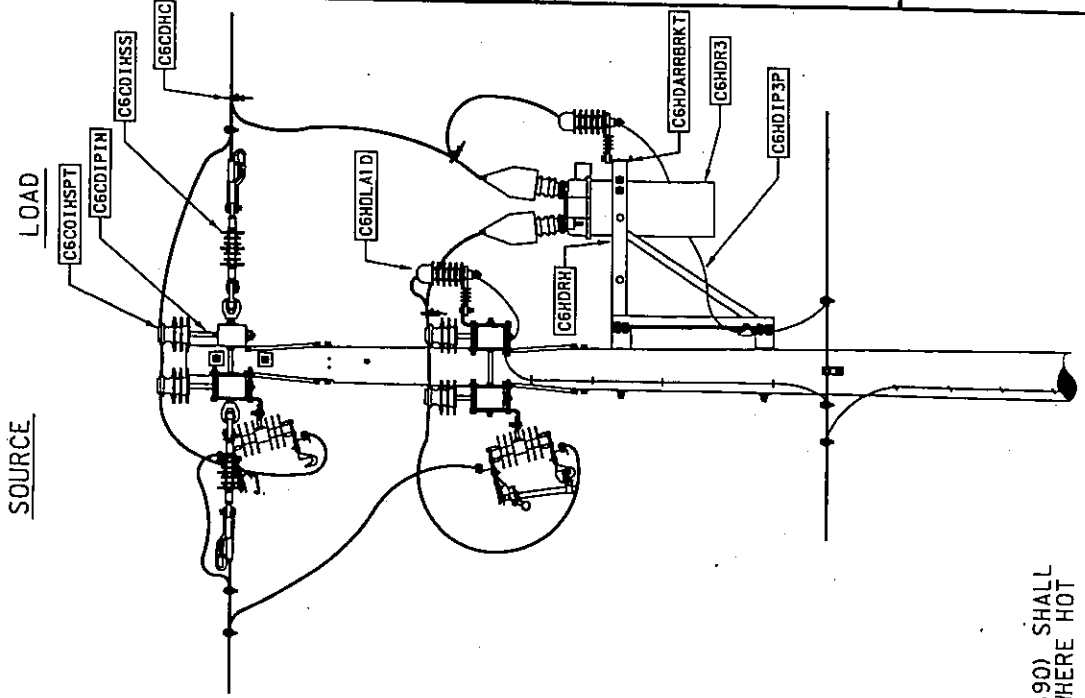
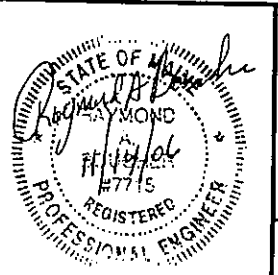
DESCRIPTION
3 PH RECL INST 12kv DBL DEADENDS

PAGE
325-6B

DESIGNED	JEC	CS	REVISOR	CS
DRAWN	GRG	REC	REVISION	REC
DATE	1/6/95	08/31/01		07/10/06

DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	11/18/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
IMPACT STIRUPS (MIO*6000112890) SHALL
BE INSTALLED ON 336.4 WIRE WHERE HOT
LINE CLAMPS ARE TO BE USED.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CODE	6	DEADEND CONO. GENERIC. (SELECT FROM CUCT)	
	1	DEADEND PRI. (SELECT FROM CUCT)	60001106XX
C6COEN5/8	6	EYE NUT ROUND 5/8 INCH	
	1	NUT EYE ROUND 5/8 TAP	6000273430
	1	WSH 2 TURN SPB GALV 5/8	6000274600
C6CDHS1/2	6	SHACKLE 1/2 IN W 5/8 IN PIN	
	1	SHACKLE 1/2 IN W 5/8 IN PIN	6000274320
C6CDINSS	6	INS DEADEND GENERIC. (SELECT FROM CUCT)	
	1	INSULATORS	6000310XXX
C6CDLAM8	3	XARM MOUNTING BRACKET	
	1	BKT EQUIP MTG CROSSARM	6000620100
C6CDNB	1	NEUTRAL BRACKET STEEL	
	4	TIE WIRE AL 1088Y	6000205XXX
	1	BOLT THRU 5/8 IN ALL LENGTHS	600027208X
	1	WSH 2 TURN SPB GALV 5/8	6000274600
	1	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPC	9	CONNECTOR PRIMARY	
	1	CONNECTORS	600011XXXX
C6CDTC2E2-350	12	TERM CONN 2 EYEBOLTS 2-350KCM CU 2 BOLT	
	1	CONN TERM 350CU-BAR	6000117876
C6CDTW	30	TAP WIRE GENERIC. (SELECT FROM CUCT)	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6HDARR8RKT	1	RECLOSER ARRESTER MOUNTING BRACKET	
	1	BKT ARR 3UNIT F/RECLOSR	6000491400
C6HDIP3P	1	RECLOSER INST PKG 3PH	
	5	CONNECTORS	600011XXXX
	2	TAP WIRE (SELECT FROM CUCT)	600020XXXX
	2	BOLT THRU 5/8 IN ALL LENGTHS	600027208X
	2	WSH 2 TURN SPB GALV 5/8	6000274600
	2	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	6	WILDLIFE PROTECTOR	60003128XX
	1	OH COND SIGNS & SWITCH NUMBERS	60008256XX
	5	WIRE NO. 4 CU GROUND BARE STRANDED S.D	751182
C6HDLA10	6	LIGHTNING ARRESTOR 10KV FOR RECLOSER	
	3	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
	4	STAPLES GALV F/4 GRD WR	6000274402
	1	ARR DIST 10KV	6000490060
	3	WIRE NO. 4 CU GROUND BARE STRANDED S.D	751182
C6HDR3	1	RECLOSER GENERIC. (SELECT FROM CUCT)	
	1	GENERIC RECLOSER (SELECT FROM CUCT)	600052050X
C6HDRCC	1	RECLOSER CONTROL CABINET GENERIC	
	1	RECL CTRL CABINET GENERIC	600052067X
C6HDRCC14C	1	RECLOSER CONTROL CABLE 14 CONDUCTOR	
	1	RECLOSER PART CABLE 50'	6000525100
C6HDRCCDISC	1	RECLOSER CONTROL CABINET DISCONNECT	
	1	DISCONNECT RECLOSER CONTROL CABINET	6000525115
C6HDRH	1	RECLOSER HANGER BRACKET GENERIC	
	1	RECLOSER HANGER BRACKET GENERIC	600052061X
C6HDS8D27600U	6	SWITCH DISC 27KV 600A UNDERARM FOR RECL	
	10	WIRE 600V XHHW 4/0 COPPER STRANDED	6000207429
	1	SW DISC 27KV UNDER ARM	6000642885
C6PD	1	POLE GENERIC. (SELECT FROM CUCT)	
	1	POLES (SELECT FROM CUCT)	600074XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRO ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251880
	1	ROD GROUND GALV 3/4 X 8 FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/1 1/2 IN MOLOING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S.D	751182
C6PDXA10	2	XARM 8 PIN B 10 FT	
	1	XARM 8 PIN B	6000740540
C6POXA8	2	XARM 6 PIN B 8 FT	
	1	XARM 6 PIN B	6000740510
C6PDXADH	4	XARM DOUBLE HARDWARE ONLY	
	4	8 CARR GALV 3/8 X 5	6000270310
	3	BOLT SPACE 5/8 IN ALL SIZES	600027217X
	2	B LAG GALV FET 1/2 X 4	6000272540
	4	BRACE XARM 28 IN	6000272670
	10	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
	9	WASHER GALV TWO TURN SPRING ALL SIZES	6000274XXX

MACRO

C6MH3DDE2001 2

DESCRIPTION

3 PH RECL OVER 200AMP DBL DEADEND 12KV

PAGE

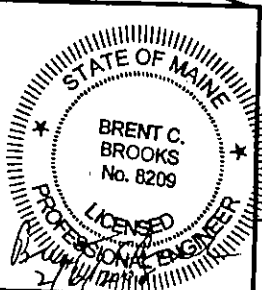
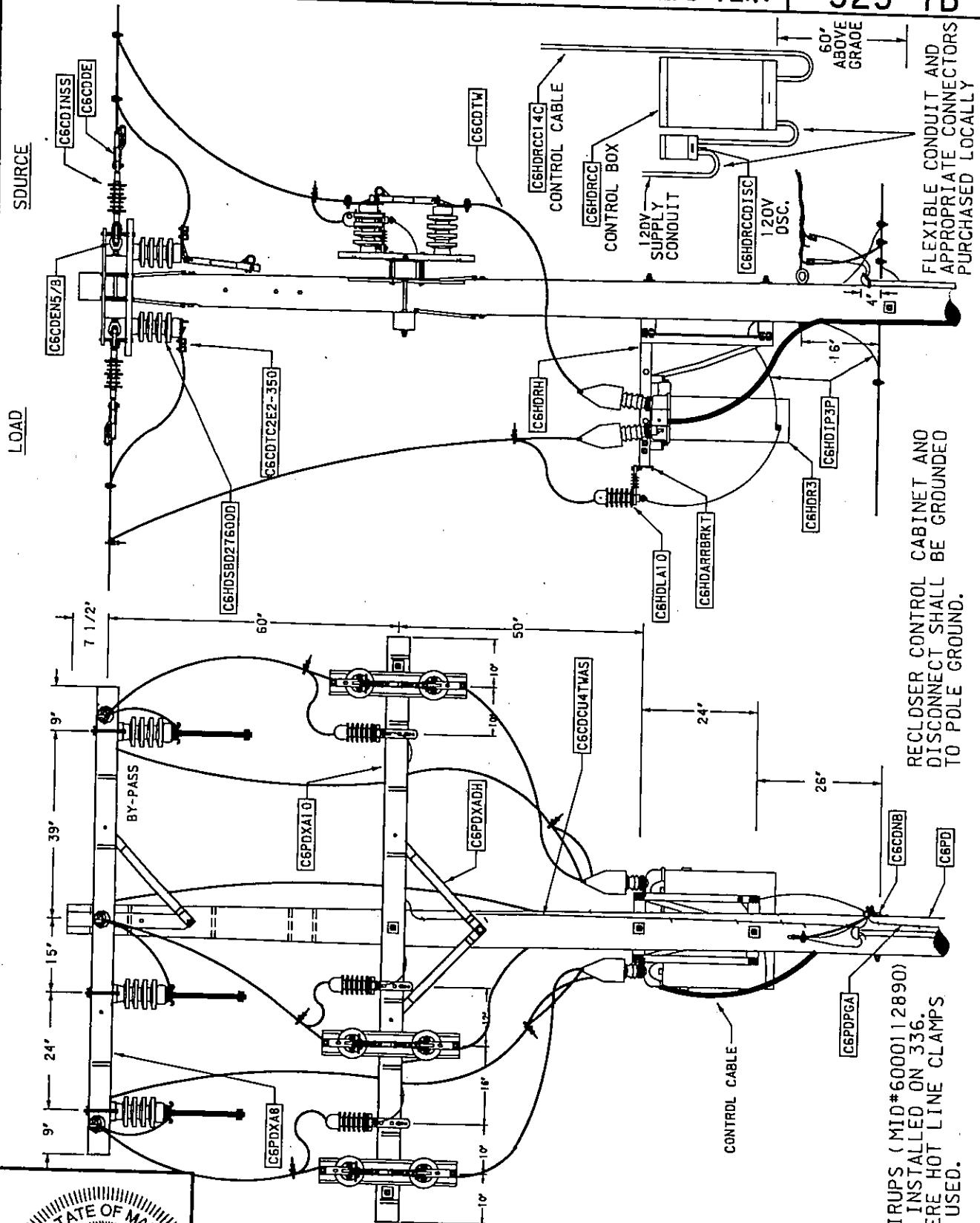
325-7B

NO.	REVISION	DATE	CR.
1	Reversed 8ff x arm with 10ff x arm 07/12/01 RB	07/12/01	RB
2	Changed control box insert, add conduit nets 02/05/08	02/05/08	



ORIGINAL
DESIGNED REDRAWN
DRAWN GRG
DATE 11/3/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

RECLUSER CONTROL CABINET AND DISCONNECT SHALL BE GROUNDED TO POLE GROUND.

FLEXIBLE CONDUIT AND APPROPRIATE CONNECTORS PURCHASED LOCALLY

NOTE: AMPACT STIRRUPS (MID #6000112890) SHALL BE INSTALLED ON 336. 4 WIRE WHERE HOT LINE CLAMPS ARE TO BE USED.

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Unit		Description	Material ID
C6CDDE	6		DEADEND_COND_GENERIC (SELECT FROM CUCT)	
		1	DEADEND_PRI (SELECT FROM CUCT)	60001106XX
C6CDEN5/8	6		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	600027343D
		1	WSH 2 TURN SPR GALV 5/8	6DD0274600
C6CDHS1/2	6		SHACKLE 1/2 IN W 5/BIN PIN	
		1	SHACKLE 1/2 IN W 5/8 PIN	6000274320
C6COINSS	6		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6CDNB	1		NEUTRAL BRACKET STEEL	
		4	TIE WIRE AL LOBBY	6000205XXX
		1	BOLT THRU 5/8 IN ALL LENGTHS	600027208X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		1	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPC	9		CONNECTOR PRIMARY	
		1	CONNECTORS	600011XXXX
C6CDTC2E2-350	6		TERM CONN 2 EYEBOLTS 2-350KCM CU 2 BOLT	
		1	CONN TERM 350CU-BAR	6000117976
C6CDTW	30		TAP WIRE GENERIC (SELECT FROM CUCT)	
		1	TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6HDARRBRKT	1		RECLOSER ARRESTER MOUNTING BRACKET	
		1	BKT ARR 3 UNIT F/RECLOSR	6000491400
C6HDIR3P	1		RECLOSER INST PKG 3PH	
		5	CONNECTORS	600011XXXX
		2	TAP WIRE (SELECT FROM CUCT)	600020XXXX
		2	BOLT THRU 5/8 IN ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		6	WILDLIFE PROTECTOR	6000312BXX
		1	OH COND SIGNS & SWITCH NUMBERS	60008256XX
		5	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6HDLA27	6		LIGHTNING ARRESTOR 27KV FOR RECLOSER	
		3	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		4	STAPLES GALV F/4 GRD WR	6000274402
		1	ARRESTOR DISTRIBUTION	6000490120
		3	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6HDR3	1		RECLOSER GENERIC (SELECT FROM CUCT)	
		1	GENERIC RECLOSER (SELECT FROM CUCT)	600052050X
C6HDRCC	1		RECLOSER CONTROL CABINET GENERIC	
		1	RECL CTRL CABINET GENEBC	600052067X
C6HDRCC14C	1		RECLOSER CONTROL CABLE 14 CONDUCTOR	
		1	RECLOSER PART CABLE 50'	6000525100
C6HDRCCDISC	1		RECLSER CONTROL CABINET DISCONNECT	
		1	DISCONNECT RECLOSER CONTROL CABINET	6000525115
C6HDRH	1		RECLOSER HANGER BRACKET GENERIC	
		1	RECLOSER HANGER BRACKET GENERIC	600052061X
C6HDSBCONLB30038	3		SOLID BLADE CUTOUT N L/B 300A 38KV RECLS	
		10	WIRE 600V XHHW 4/0 COPPER STRANDED	6000207429
		1	Cut Out Non Load Break 300 AMP Full 38KV	6000491773
C6HDSBD27600U	3		SWITCH DISC 27KV 600A UNDERARM FOR RECL	
		10	WIRE 600V XHHW 4/0 COPPER STRANDED	6000207429
		1	SW DISC 27KV UNDER ARM	6000542885
C6PO	1		POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SELECT FROM CUCT)	600074XXXX
C6PDPGA	1		POLE GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		8	MOULDING PLAS 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		6	STAPLE F/1/2 IN MOLDING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA10	2		XARM 8PINB 10 FT	
		1	XARM 8 PIN B	6000740540
C6PDXAB	2		XARM 6PINB 8FT	
		1	XARM 6PIN 8	6000740510
C6PDXADH	4		XARM DOUBLE HARDWARE ONLY	
		4	B CABR GALV 3/8 X 5	6000270310
		3	BOLT SPACE 5/8 IN ALL SIZES	600027217X
		2	B LAG GALV FEET 1/2 X 4	6000272540
		4	BRACE XARM 28 IN	6000272670
		10	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		9	WASHER GALV TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MH3DDE34

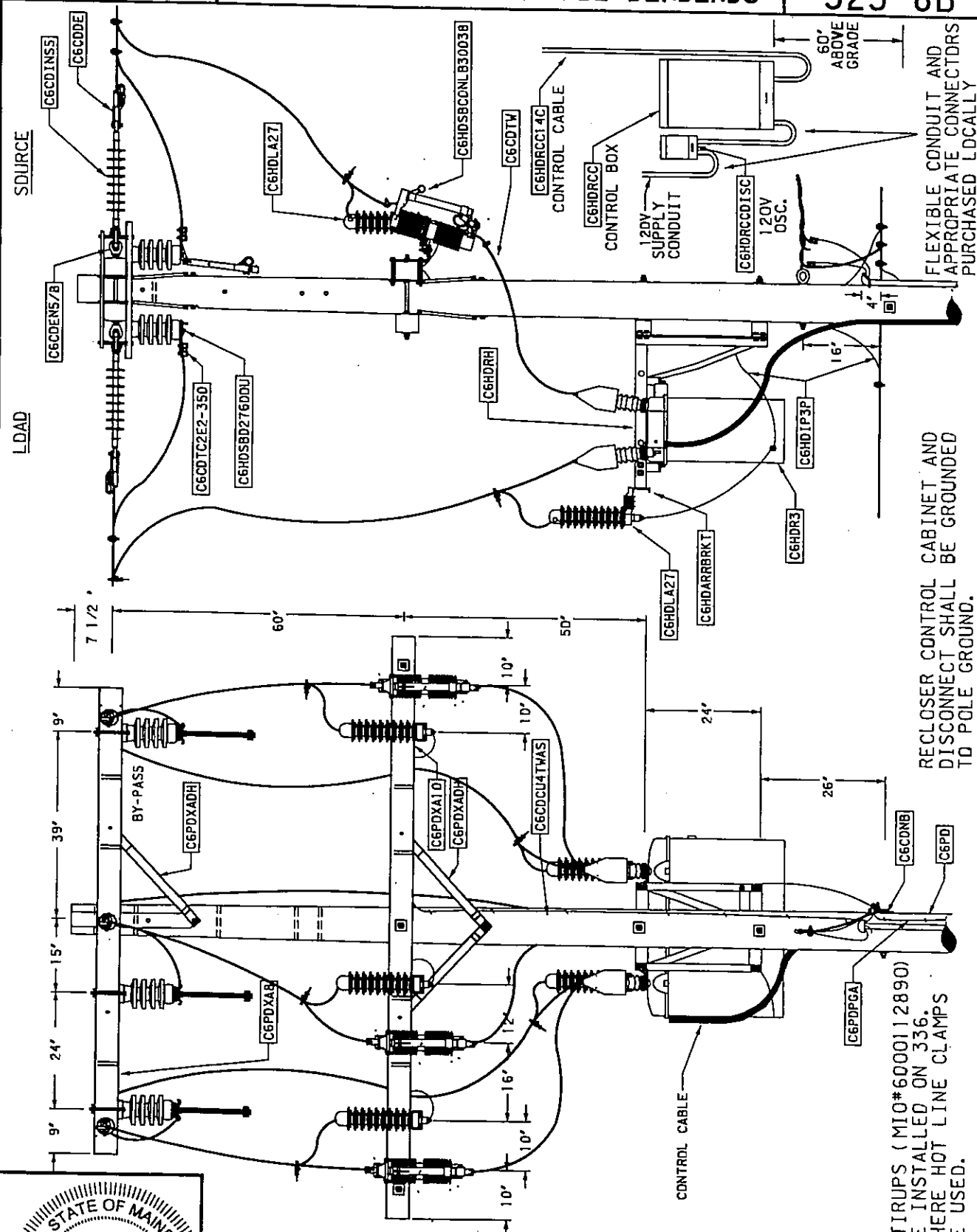
DESCRIPTION
3 PH RECL INST 34KV DBL DEADENDS

PAGE
325-8B

NO.	REVISION	DATE	CHK.
1	Revised av & replaced 8ft xarm with 10ft xarm	07/12/07	RB
2	Changed control box insert, add conduit note	02/06/08	

DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	GRC
	11/3/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



STATE OF MAINE
 BRENT C. BROOKS
 No. 8209
 LICENSED PROFESSIONAL ENGINEER

RECLOSER CONTROL CABINET AND DISCONNECT SHALL BE GROUNDED TO POLE GROUND.

FLEXIBLE CONDUIT AND APPROPRIATE CONNECTORS PURCHASED LDCALLY



CENTRAL MAINE POWER CO.

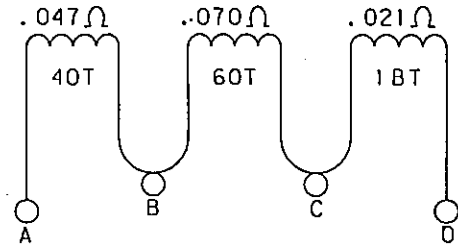
DISTRIBUTION CONSTRUCTION STANDARDS

CONNECTION DIAGRAM FOR BUSHING CT'S

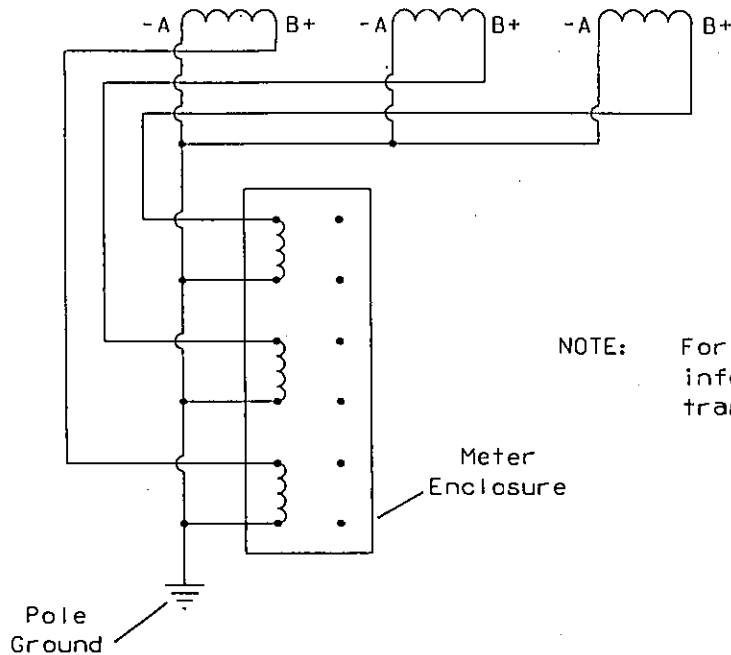
Multi-Ratio 600:5

Current Ratio	Connection Terminals
100:5	C-D
200:5	A-B
300:5	B-C
400:5	B-D
500:5	A-C
600:5	A-D

DC RESISTANCE



CT'S Y - Y CONNECTION



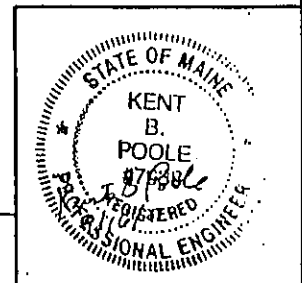
A & B Terminals are for Example only:
Use CT Terminals A & B 200:5
 $200 \div 5 = 40$
40 is the multiplier to be used to read the correct amperage on a 5 AMP scale

NOTE: For installation see catalog service information sheet on bushing current transformers.

DESIGNED	REDRAWN	CS
DRAWN	JRP	REC
DATE	08/12/98	08/31/01

DESIGNED	SGO
DRAWN	RCE
DATE	02/19/87

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY







MACRO	DESCRIPTION SPACER CABLE	PAGE 330
--------------	---	---------------------------

GENERAL

Spacer cable construction may be single or three phase and consists of covered primary wires separated by intermediate spacers constructed of insulating material and supported by a high strength bare messenger. The required insulation is provided through a combination of the separation of the conductors and covering of the conductors.

APPLICATION

Spacer cable construction shall be used only with prior approval from Distribution Engineering and where one of the following conditions exist:

- 1-Heavy tree conditions with excessive trimming limitations.
- 2-Proper clearance cannot be maintained using other than spacer cable construction.
- 3-Multiple circuits on a pole line are required.
- 4-Right of way space is limited.
- 5-Otherwise justified to improve reliability

CLEARANCE

Because the covering on the primary wire alone is not adequate insulation for the applied voltage and the primary conductors are not shielded the primary wire must be considered as bare conductor for all clearance purposes. Trim shall be sufficient that direct contact with vegetation is avoided

SEPARATION

The reduced separation between the primary wires and the supporting messenger is allowed only provided the insulation system comprised of the intermediate spacers and conductor covering is completely intact. When the covering is removed from the primary wire separation between the exposed primary and other facilities including the supporting messenger must be increased to that required for bare wire construction or supplemental insulation must be installed.

CONDUCTORS

Standard primary conductors are:

- 6000207958 15 kv 1/0 awg. AAAC standard round
- 6000207981 15 kv 336 kcmil AL compact round
- 6000207990 35 kv 1/0 awg. AAAC standard round
- 6000207995 35 kv 336 kcmil AL compact round
- 6000207996 35 kv 477 kcmil AL compact round

See Central Maine Power Company Specification 20-002 for further detail.

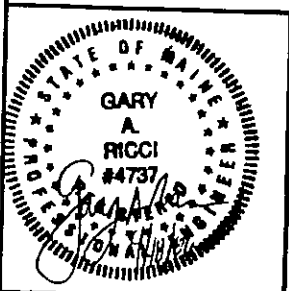
Standard messenger, 6000205382, is 052 Alumoweld, 7strand (5 alumoweld and 2 aluminum) 0.486" diameter.

DESIGNED	REVISOR	REVISION
DRAWN		
DATE		



ORIGINAL	CS	REC	DATE
DESIGNED			01/30/06
DRAWN			
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



PAGE 330-1	DESCRIPTION SPACER CABLE	MACRO
-----------------------------	---	--------------

SPLICING CONDUCTORS

Messenger: The messenger shall be spliced with a full tension automatic splice MID* 6000586780.

Primary Conductors: Primary conductor shall be spliced with a Full or Partial Tension compression sleeve.

CONDUCTOR	SPLICE MID*
1/0 AAAC	6000582280
336 AL	6000582640
477 AL	6000582670

DO NOT USE AUTOMATIC SPLICES IN THE PRIMARY CONDUCTORS.

Primary conductor splices shall normally be re-covered using a cold shrink splice cover or insulating tape. If a splice is left bare, the messenger above the splice shall be covered for a minimum of 30 inches in each direction from the splice and a surge arrester shall be installed at the pole nearest the splice.

Splices shall be staggered a minimum of 30 inches.

Splices shall not be installed closer than 30' to pin insulators or spacers.

INSULATORS and TIES

Dead end Insulators: Standard one-piece polymer strain insulators should be used to dead end primary conductors.

Pin Insulators: Covered primary conductors shall normally be supported on one-piece tie top polyethylene pin insulators. Covered primary conductor shall be tied to polyethylene pin insulators with covered tie wire.

With approval from the Distribution Engineer polyethylene vise top insulators may be used for longitudinal stability.

If covered conductor must be attached to porcelain insulators the covering MUST be removed, where it contacts the insulator and the tie wire, and the tie wire must be bare.

GROUNDING

The supporting messenger shall be directly connected to the primary neutral at every pole. If a primary neutral is not available the messenger shall be connected to a driven ground rod at every pole. The messenger shall be connected to a driven ground rod at intervals not to exceed 400 feet.

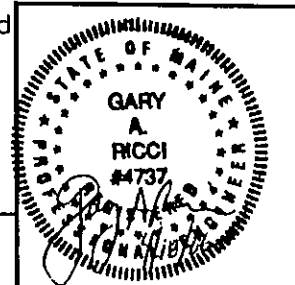
All messenger and phase conductor brackets shall be bonded to the pole equipment conductor. Banding of the support bracket does not constitute grounding the messenger.

SURGE PROTECTION

Surge arrester(s) shall be installed:

- 1- at all end-of-line spacer cable dead ends.
- 2- at all junctions with bare or covered open wire. If the junction is at a switch the arrester(s) shall be installed on the spacer cable side of the switch.
- 3- at any location where the covering is removed from the primary wire.

All surge arrester ground terminals shall be directly connected to a driven ground rod and banded to the primary neutral if available.



DESIGNED	
DRAWN	
DATE	



East

DESIGNED	CS
DRAWN	REC
DATE	01/24/06

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



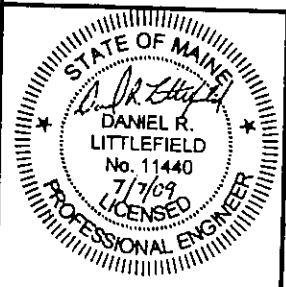
NO.	REVISION	DATE	CK.
1	Corrected spelling of messenger	01/30/06	
2	Chgd 6000582640 burndy U321 to U655	07/07/09	

ITEM	15 KV 1/0 AAAC CONCENT AZUSA	15 KV 336.4 KCM COMPACT TULIP	34.5 KV 1/0 AAAC CONCENT AZUSA	34.5 KV 336.5 KCM COMPACT TULIP	34.5 KV 477 KCM COMPACT COSMOS
CONDUCTOR	6000207958	6000207981	6000207990	6000207995	6000207996
STRIPPER-MIDSPAN RIPLEY-UTILITYTODL	6000834277 WS1-101	6000834271 W52-6	6000834272 WSRK10-88	6000834279 W52-122	6000834274 WSRK10-111
SPLICE-CONDUCTOR -partial tension DIES FOR SLEEVES	6000584360 NICD: P, H: TU & BL: TR66		6000584360 NICD: P, H: TU & BL: TR66		6000582670 BURNDY U317
-full tension DIES FOR SLEEVES	6000582280 HDMAC TWTY	6000582640 BURNDY U655	6000582280 HDMAC TWTY	6000582640 BURNDY U655	
SPLICE COVERS	6000582695	6000582690	6000582695	6000582690	6000582690
MESSENGER	(8 KV CDLD SHRINK DR TAPE W/130C & 68)				
	6000205382	6000205382	6000205382	6000205382	6000205430
	052 AWA & 1/2" ALUMDWELD (.486" DIA.)				
SPLICE-MESSENGER RELIABLE PART *	6000586780	6000586780	6000586780	6000586780	6000586780
	(5044), 12.25' L 1.70" DIA FOR 0.455-0.520" OIA.				
CONDUCTOR DEAD-END	6000110822	6000110830	6000110822	6000110830	6000110835
MESSENGER DEAD-END RELIABLE PART *	6000110806	6000110806	6000110806	6000110806	6000110806
	(5204)				
TANGENT BRACKETS HENDRIX PART *	6000620290	6000620290	6000620320	6000620320	6000620320
	BM-14		BM-24		
ANGLE BKT-4 COND HENDRIX PART *	6000620440	6000620440	N/A	N/A	N/A
	BA4-15				
ANGLE BKT-3 COND HENDRIX PART *	6000620470	6000620470	6000620480	6000620480	6000620480
	BA3-15		BA3-35		
DEAD-END BRACKET HENDRIX PART *	6000620350	6000620350	6000620350	6000620350	600620350
	BD-35				
ANTI-SWAY BRACKET HENDRIX PART *	6000620390	6000620390	6000620395	6000620395	6000620395
	BA5-14F		BA5-24F		
TAN. BKT. STIRRUP HENDRIX PART *	6000620380	6000620380	6000620380	6000620380	6000620380
	TS-1				
SPACERS 3-PHASE HENDRIX PART *	6000221520	6000221520	6000221490	6000221490	6000221490
	H15D		H46D		
COVER	N/A	N/A	N/A	N/A	6000113707

EnergyEast

ORIGINAL	CS	REC	DATE
DESIGNED			01/30/06
DRAWN			

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

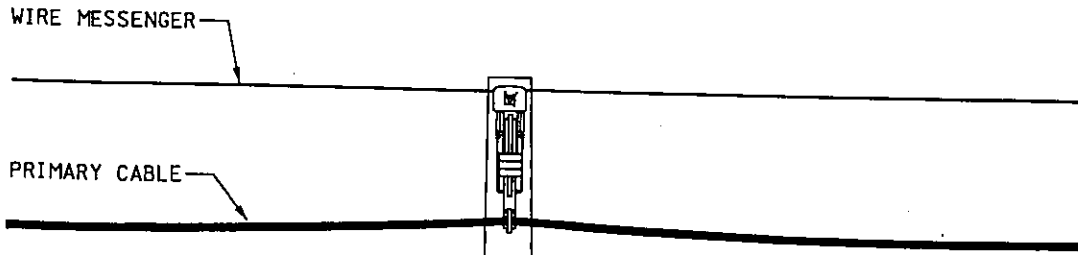


Distribution Construction Standards - CMP Co.

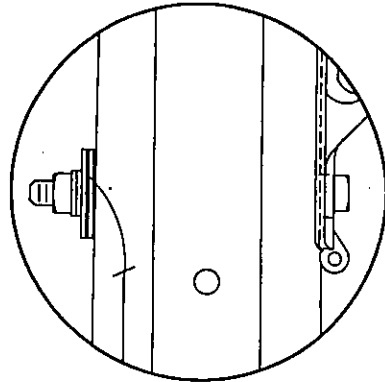
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDSCBMT14	1	SPACER CBL BKT MESS TANGENT 14IN	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WSHFLT GALVSQ2 1/4X3/16	6000274810
	1	BKT MESS TANGENT 14 IN	6000620290
C6CDSCBMT14AS	1	BKT ANTI-SWAY 14IN USE W/CDSCBMT14	
	1	B LAG GALV FET 1/2 X 4	6000272540
	1	BRACKET - ANTI-SWAY 14"	6000620390
C6CDSCBS	1	SPACER CBL STIRRUP USE/W ANTI-SWAY BKT	
	1	BKT STIRRUP	6000620380
C6CDSCS20T1PH	7	SPACER CBL SPACER W/TIES F/20KV 1PHASE	
	1	SPACER - SINGLE - 20KV	6000221500
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
	1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MDULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO C6MC1 SCT	DESCRIPTION 1 PH SPACER CBL TANGENT STRUCTURE-12KV	PAGE 331-1B
----------------------------------	---	------------------------------

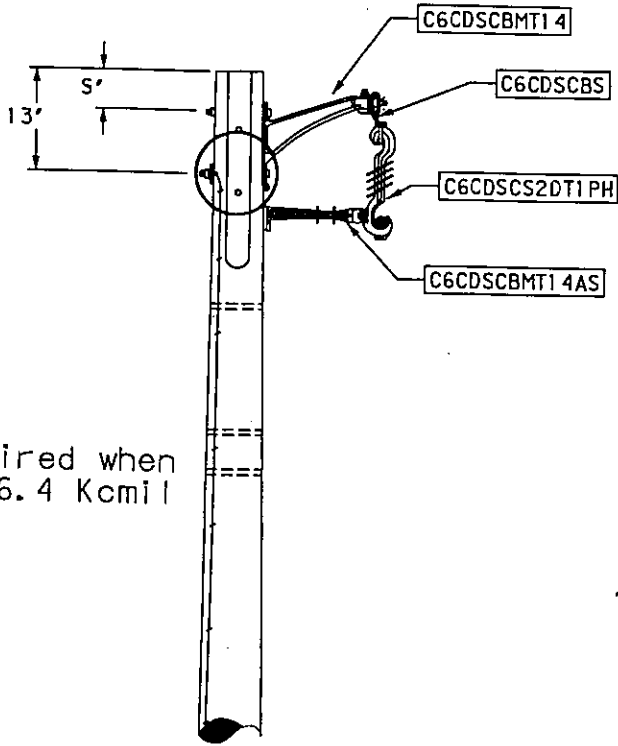
D - 6' CORNER



NOTE:
Place spacers 30' to 40' apart throughout the span



All metallic brackets shall be grounded.



1/0 neut required when installing 336.4 Kcmil AL. Primary.

DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS		01/24/06
DATE	REC		

DESIGNED	JEC	DATE
DRAWN	GRG	1/20/95
DATE		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS



Distribution Construction Standards - CMP Co.

Page 331-2A

1PH SPACER CBL TO 60 FT ANGLE 12KV

Macro: C6MC1SCA6-60

CU Number	Quantity - CU/Mat	Description	Material ID
C6COEMB	1	EQUIP MOUNTING BRACKET 18IN	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
	1	BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	1	EYE NUT ROUND 5/8 INCH	
	1	NUT EYE ROUND 5/8 TAP	6000273430
	1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDINSPT	1	INSULATOR PIN TYPE GENERIC (SELECT FROM	
	1	INSULATORS	6000310XXX
C6CDIPSSS3/4	1	INS PIN STEEL SHQRT SHANK 3/4 INCH	
	1	PIN SHORT SHANK 3/4 IN	6000273980
C6CDSCS20T1PH	6	SPACER CBL SPACER W/TIES F/20KV 1PHASE	
	1	SPACER - SINGLE - 20KV	6000221500
C6CDSSC6-4/0	1	SEMI STRAIN CLAMP 6 TO 4/0	
	1	SEMI STRAIN CLAMP 6 TO 4/0	
	1	CL S/STRAIN 6 TO 4/0CU	6000111368
	1	CL S/STRAIN 6 TO 4/0CU	6000111368
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
	1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
	1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY,GENERIC (SEE TABLE PAGE 309-6)	
	1	GUYS (SEE TABLE PAGE 309-6)	60002527XX

MACRO
C6MC1 SCA6-60

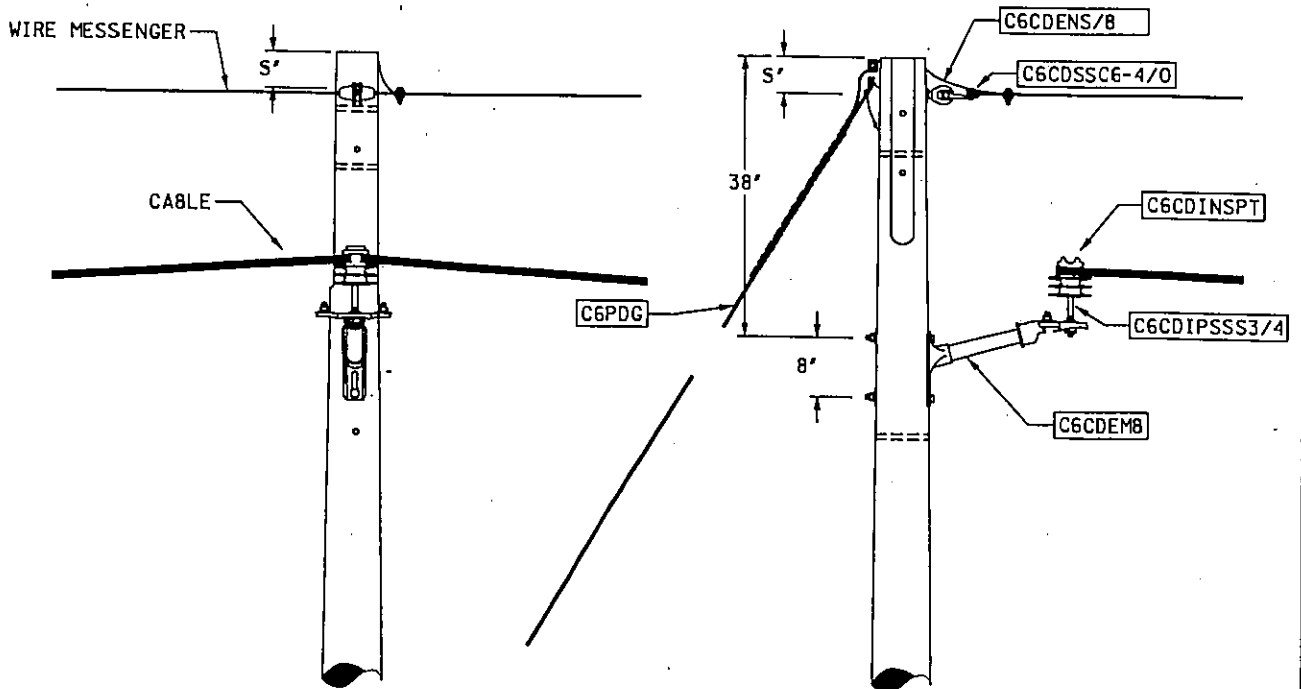
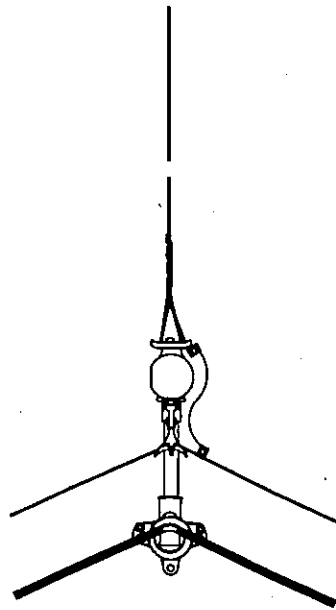
DESCRIPTION
1 PH SPACER CBL TO 60 FT ANGLE 12KV

PAGE
331-2B

6' - 60' CORNER

DESIGNED	REVISOR	REVISION	DATE
DRAWN	JEC	CS	
DATE	GRG	REC	04/11/95 01/17/06

NOTE:
Place first spacers 30'
from Pole and 30' to
40' apart throughout
the span

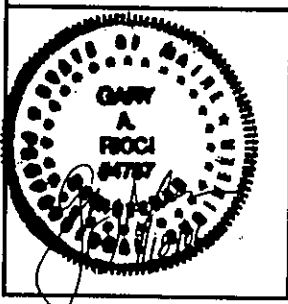


1/0 neutral required when
installing 336.4Kcmil Al
primary.



DESIGNED	REVISOR	REVISION	DATE
DRAWN	JEC	GRG	1/31/95

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

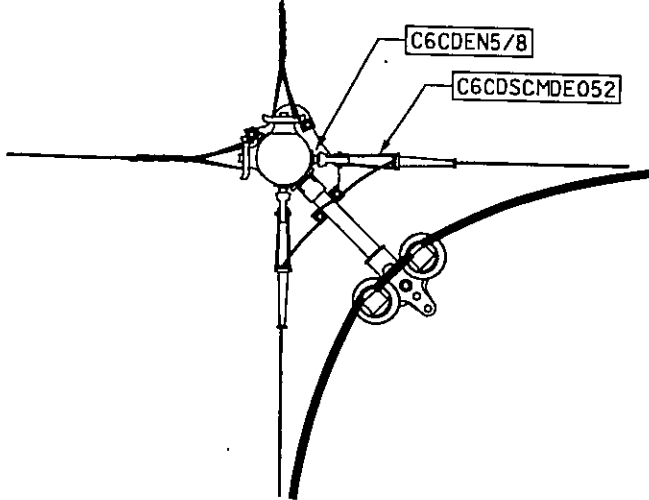
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6COEN5/8	2	EYE NUT ROUND 5/8 INCH	
		1 NUT EYE ROUNO 5/8 TAP	6000273430
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDINSPT	2	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1 INSULATORS	6000310XXX
C6CDIPSS3/4	2	INS PIN STEEL SHORT SHANK 3/4 INCH	
		1 PIN SHORT SHANK 3/4 IN	6000273980
C6CDSCMDE052	2	SPACER CBL MESS DEADEND 052 A/W	
		1 D/E MESS .052 7NO 6 AW	6000110806
		1 BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		1 NUT EYE THIMBLE 3/4 TAP	6000273460
		1 WSH 2 TURN SPR GALV 3/4	6000274610
		1 WASHER SQ FLAT GALVN 4 X 4 X 3/16, 3/4	6000274840
C6CDSCS20T1PH	6	SPACER CBL SPACER W/TIES F/20KV 1PHASE	
		1 SPACER - SINGLE - 20KV	6000221500
C6PO	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	2	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	2	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX

MACRO
C6MC1SCA60-90

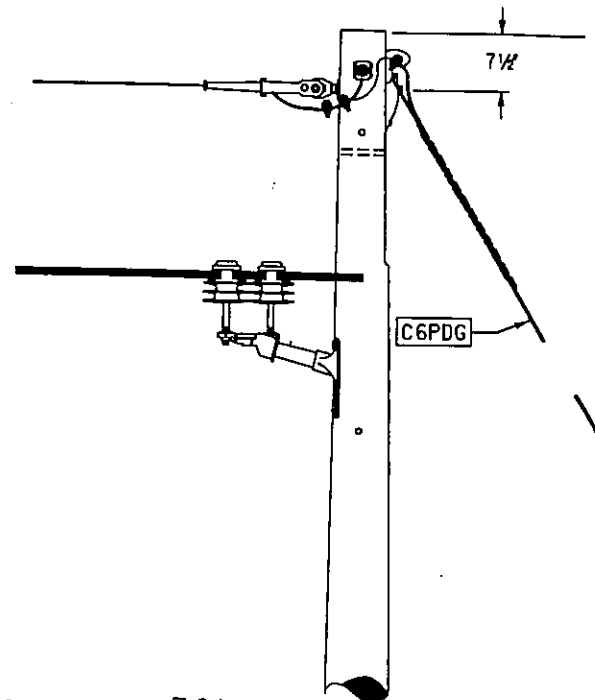
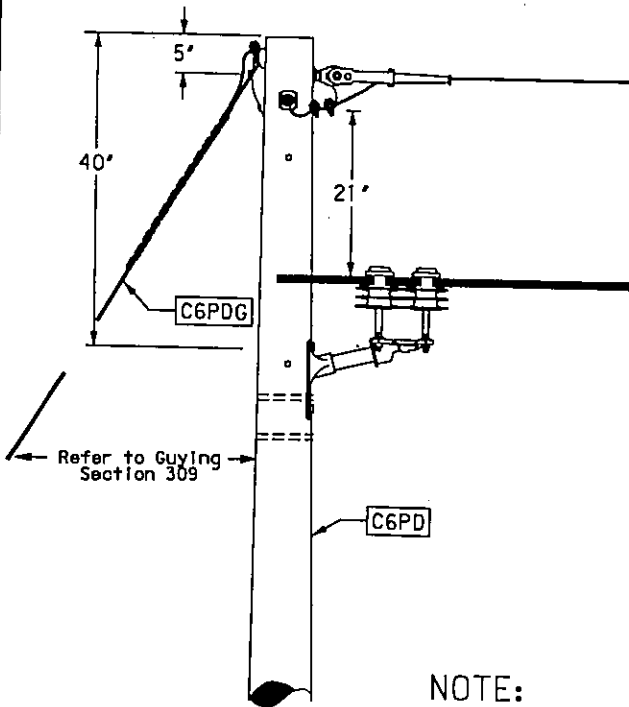
DESCRIPTION
1 PH SPACER CBL 60-90 FT ANGLE 12KV

PAGE
331-3B

DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS		
DATE	REC		
	01/17/06		



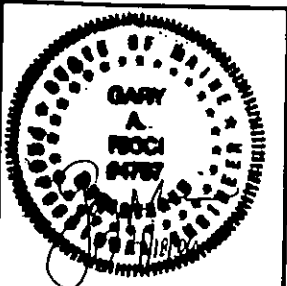
DESIGNED	JEC
DRAWN	GRG
DATE	4/19/95



NOTE:
Place first spacers 30'
from Pole and 30' to
40' apart throughout
the span

1/0 nut required when installing
336.4 Kcmil AL. Primary.

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

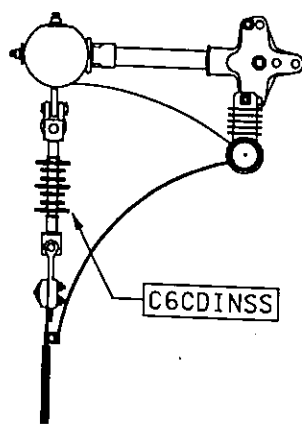
<i>CU Number</i>	<i>Quantity - CU/Mat</i>		<i>Description</i>	<i>Material ID</i>
C6CDDE	1		DEADEND COND. GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDE85/8	1		EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEMB	1		EQUIP MOUNTING BRACKET 18IN	
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1	BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	1		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	1		SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE, 1/2 IN W/5/8PIN	6000274320
C6CDLA9	1		LIGHTNING ARRESTOR 10KV	
		2	CONNECTORS	600011XXXX
		1	WILDLIFE PROTECTOR	60003128XX
		1	ARR DIST 10KV	6000490060
C6CDSCMDE052	1		SPACER CBL MESS DEADEND 052 AW	
		1	D/E MESS .052 7NO 6 AW	6000110806
		1	BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		1	NUT EYE THIMBLE 3/4 TAP	6000273460
		1	WSH 2 TURN SPR GALV 3/4	6000274610
		1	WASHER SQ FLAT GALVN 4 X 4 X 3/16, 3/4	6000274840
C6CDSCS20T1PH	6		SPACER C8L SPACER W/TIES F/20KV 1PHASE	
		1	SPACER - SINGLE - 20KV	6000221500
C6PD	1		POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1		ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1		GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1	GLYS (SEE TABLE, PAGE 309-6)	60002527XX
C6PDPGA	1		POLE GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN	6000112862
		1	CONNECTORS	600011XXXX
		8	MOULDING PLAS 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		6	STAPLE F/ 1/2IN MOLDING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

DESIGNED	REVISOR	REVISION	DATE
CS			
DRAWN	REC		
DATE			01/17/06



DESIGNED	JEC	DATE	2/1/95
DRAWN	GRG		
ORIGINAL			

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

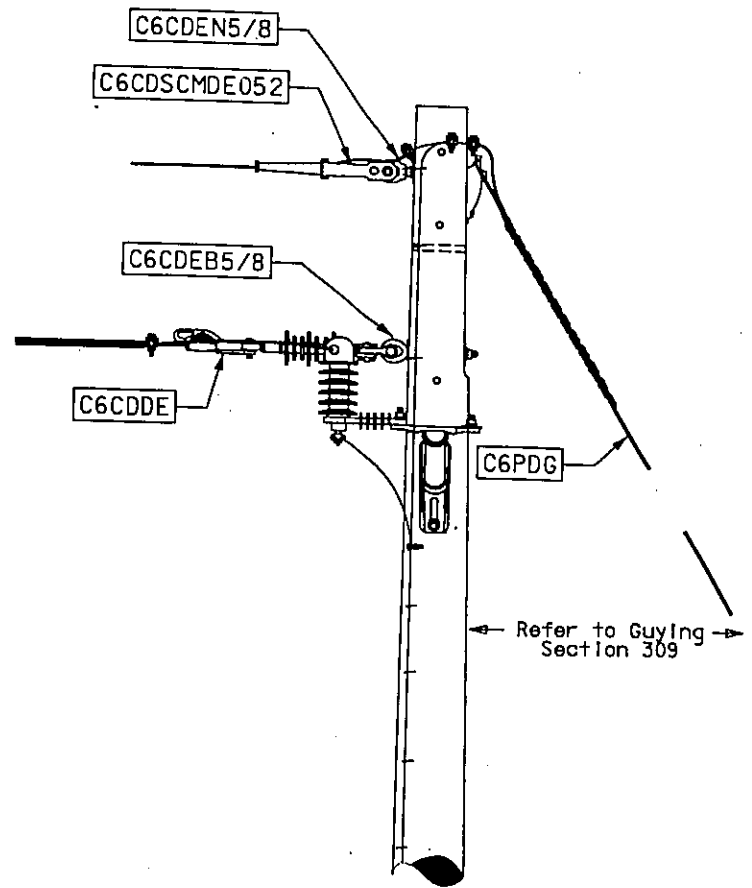
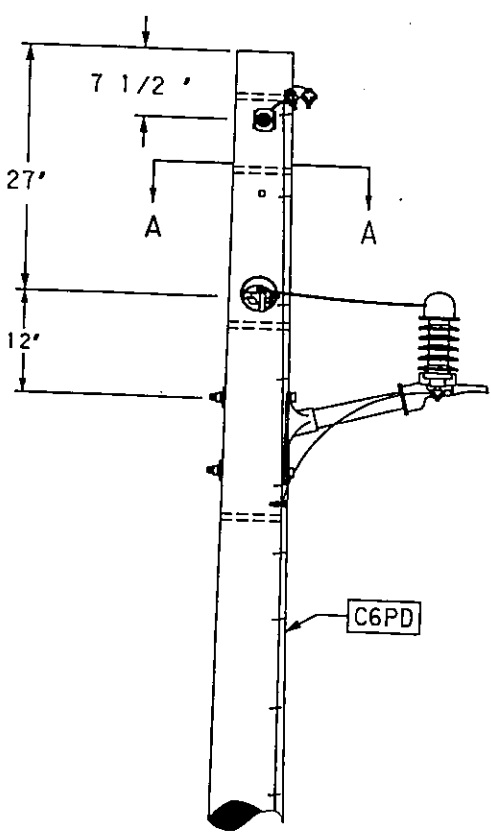


Primary Connections
A - A



Neutral Connections

NOTE:
Place first spacers 30'
from Pole and 30' to
40' apart throughout
the span



1/0 neut required when installing
336.4 Kcmil AL. Primary.



Distribution Construction Standards - CMP Co.

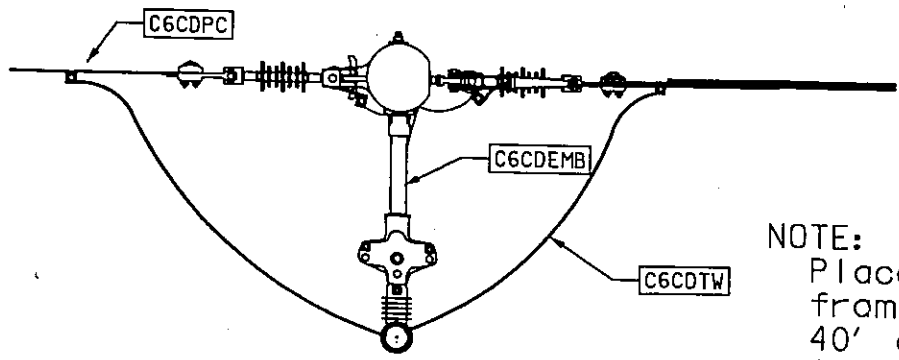
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	2	DEADEND COND. GENERIC (SELECT FROM CUCT)	
		DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	3	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	1	EYE NUT ROUND 5/8 INCH	
		NUT EYE ROUND 5/8 TAP	6000273430
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	2	SHACKLE 1/2IN W 5/8IN PIN	
		SHACKLE 1/2 IN W 5/8PIN	6000274320
C6CDINSS	2	INS DEADEND GENERIC (SELECT FROM CUCT)	
		INSULATORS	6000310XXX
C6CDLA9	1	LIGHTNING ARRESTOR 10KV	
		CONNECTORS	600011XXXX
		WILDLIFE PROTECTOR	60003128XX
		ARR DIST 10KV	6000490060
C6CDPC	5	CONNECTOR, PRIMARY	
		CONNECTORS	600011XXXX
C6CDSCMDE052	1	SPACER CBL MESS DEADEND 052 A/W	
		D/E MESS .052 7ND 6 AW	6000110806
		BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		NUT EYE THIMBLE 3/4 TAP	6000273460
		WSH 2 TURN SPR GALV 3/4	6000274610
		WASHER SQ FLAT GALVN 4 X 4 X 3/16, 3/4	6000274840
C6CDTW	12	TAPWIRE GENERIC (SELECT FROM CUCT)	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MDULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4X8FT	6000251860
		STAPLES GALV F/4 GRD WR	6000274402
		STAPLE F/ 1/2IN MOLDING	6000274410
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MC1 SCOWT

DESCRIPTION
1 PH SPACER CBL OPEN WIRE TRANSITION 12KV

PAGE
331-5B

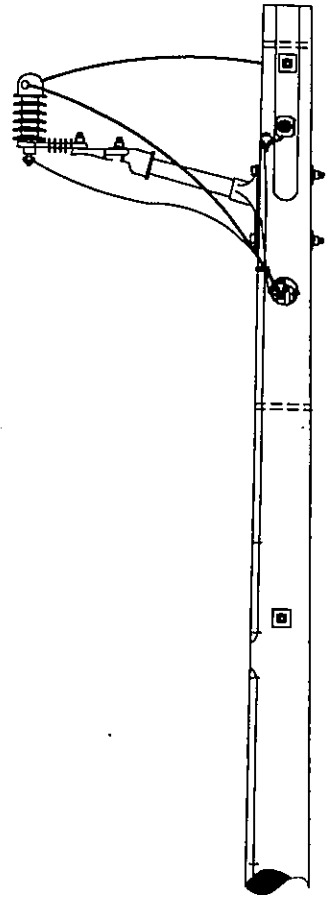
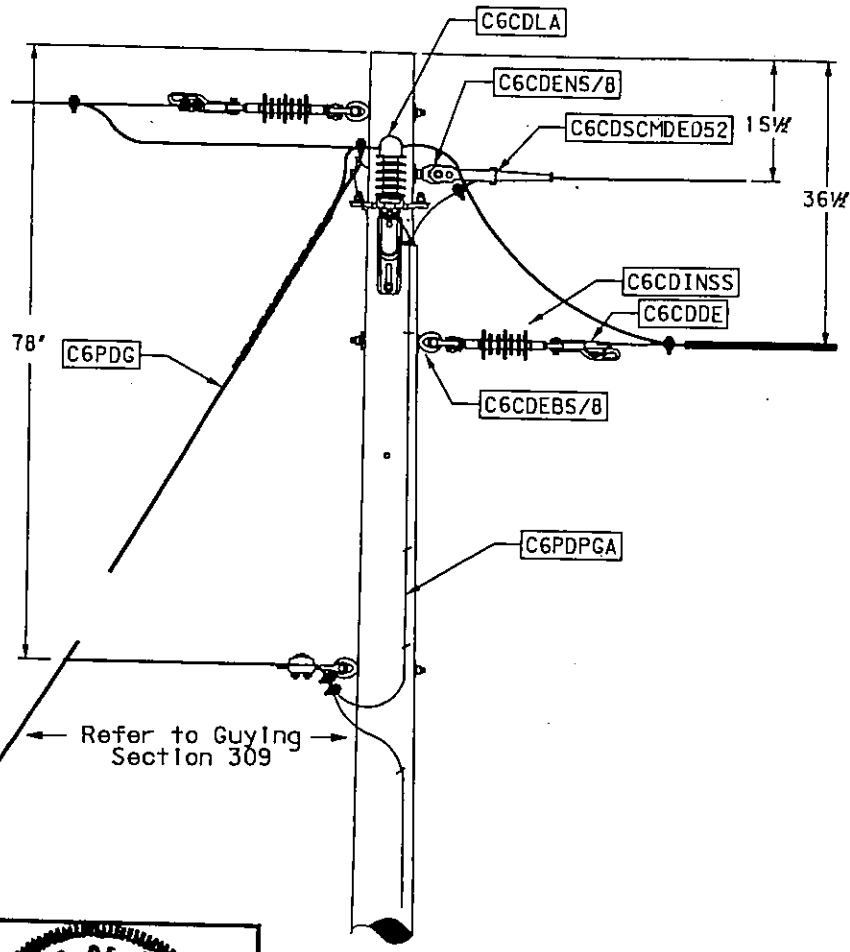
DESIGNED	CS	REVISED	REVISED
DRAWN	REC		
DATE	D1/24/06		



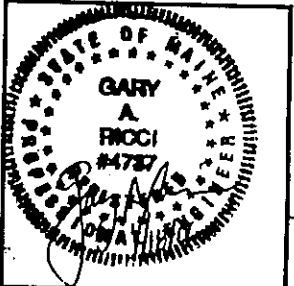
NOTE:
Place first spacers 30' from Pole and 30' to 40' apart throughout the span



DESIGNED	JEC	ORIGINAL
DRAWN	GRG	
DATE	3/8/95	



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



1/0 neut required when installing 336.4 Kcmil AL. Primary Spacer Cable.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

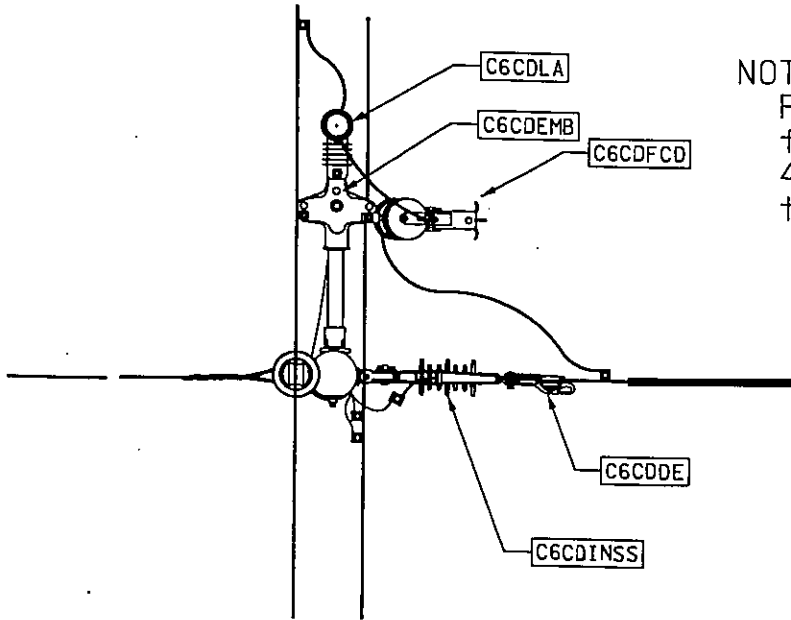
<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6CDDE	1	DEADEND COND. GENERIC (SELECT FROM CUCT)	
		DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	1	EYE NUT ROUND 5/8 INCH	
		NUT, EYE ROUND 5/8 TAP	6000273430
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDFCO	1	FUSED CUTOFF GENERIC (SELECT FROM CUCT)	
		FUSED CUTOFF (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	1	SHACKLE 1/2IN W 5/8IN PIN	
		SHACKLE, 1/2 IN. W/5/8PIN	6000274320
C6CDINSPT	1	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDINSS	1	INS DEADEND GENERIC (SELECT FROM CUCT)	
		INSULATORS	6000310XXX
C6CDLA9	1	LIGHTNING ARRESTOR 10KV	
		CONNECTORS	600011XXXX
		WILDLIFE PROTECTOR	60003128XX
		ARR DIST 10KV	6000490060
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 24X1 3/8INCH	6000274170
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6CQSCMDE052	1	SPACER CBL MESS DEADEND 052 A/W	
		D/E MESS, 052.7NO 6 AW	6000110806
		BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		NUT EYE THIMBLE 3/4 TAP	6000273460
		WSH 2 TURN SPR GALV 3/4	6000274610
		WASHER SQ FLAT GALVN 4 X 4 X 3/16, 3/4	6000274840
C6PQ	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4X8FT	6000251860
		STAPLES GALV F/4 GRD WR	6000274402
		STAPLE F/ 1/2IN MOLDING	6000274410
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MC1 SCTFPT

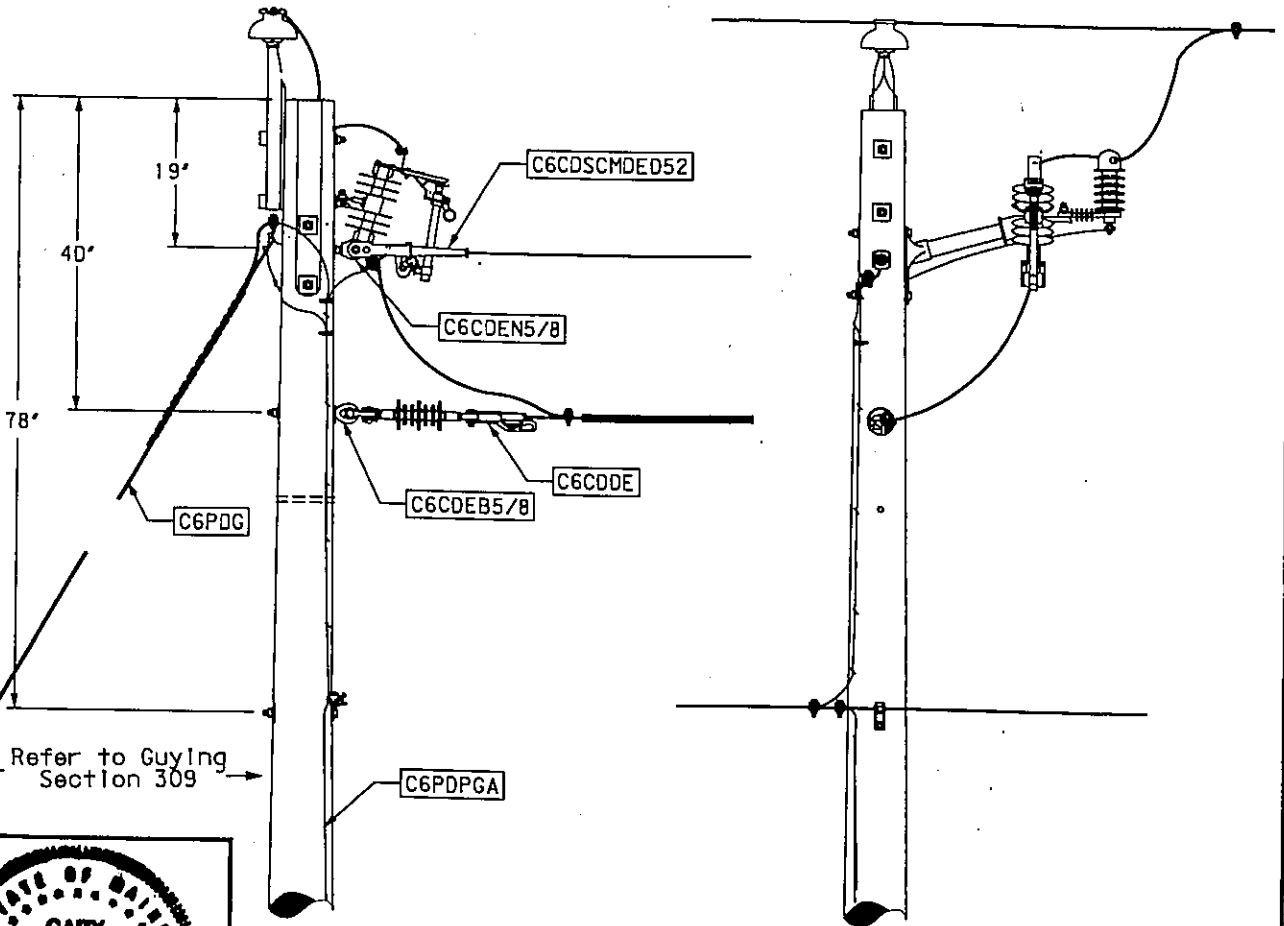
DESCRIPTION
1 PH SPACER CBL TAP FROM POLE TOP ST 12KV

PAGE
331-6B

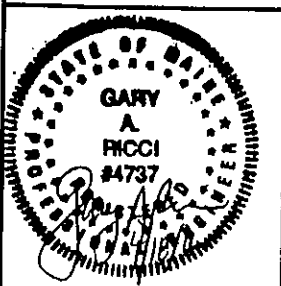
DESIGNED	REVISOR	REVISION	DATE
CS			
REC			
DATE			01/24/06



DESIGNED	JEC
DRAWN	GRG
DATE	3/10/95



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



1/0 neut required when installing 336.4 Kcmil AL. Primary Spacer Cable.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat		Description	Material ID
C6CDEE	1	1	DEADEND COND. GENERIC (SELECT FROM CUCT)	
			DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEMB	1	1	EQUIP MOUNTING BRACKET 18IN	
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	60002720BX
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1	BKT EQUIP MTG 18 IN	6000620140
C6CDEN5/8	1	1	EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C8CDFCO	1	1	FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	1	1	SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSPT	3	1	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1	INSULATORS	6000310XXX
C6CDINSS	1	1	INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C8CDIPIN	2	1	INSULATOR PINS VARIOUS SIZES LOBBY	
		1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6COLA9	1	2	LIGHTNING ARRESTOR 10KV	
		1	CONNECTORS	600011XXXX
		1	WILDLIFE PROTECTOR	60003128XX
		1	ARR DIST 10KV	6000490060
C6CDNB	1	1	NEUTRAL BRACKET STEEL	
		4	TIE WIRE AL LOBBY	6000205XXX
		1	BOLT, THRU 5/8 IN. ALL LENGTHS	60002720BX
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		1	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPTP	1	1	POLE TOP PIN 24 INCH STEEL	
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	60002720BX
		1	POLE TDP PIN 24X1 3/8INCH	6000274170
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		2	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6CDSCMDE052	1	1	SPACER CBL MESS DEADEND .052 A/W	
		1	D/E MESS .052 7ND 8 AW	6000110806
		1	BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		1	NUT EYE THIMBLE 3/4 TAP	6000273460
		1	WSH 2 TURN SPR GALV 3/4	6000274610
		1	WASHER SQ FLAT GALVN 4 X 4 X 3/16, 3/4	6000274840
C6PD	1	1	POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDPGA	1	1	POLE GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		8	MOULDING PLAS 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		6	STAPLE, F/ 1/2IN MOL, OING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA8	1	1	XARM, 6PINB, 8FT	
		1	XARM 6PIN B	6000740510
C6PDXASH	1	1	XARM, SINGLE, HARDWARE ONLY	
		2	B CARR GALV 3/8 X 5	6000270310
		1	BOLT, THRU 5/8 IN. ALL LENGTHS	60002720BX
		1	B LAG GALV FET 1/2 X 4	6000272540
		2	BRACE XARM 28 IN	6000272670
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		3	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3SC1 TFSX

DESCRIPTION
1 PH SPACER CBL TAP FROM 3PH SX STR 12KV

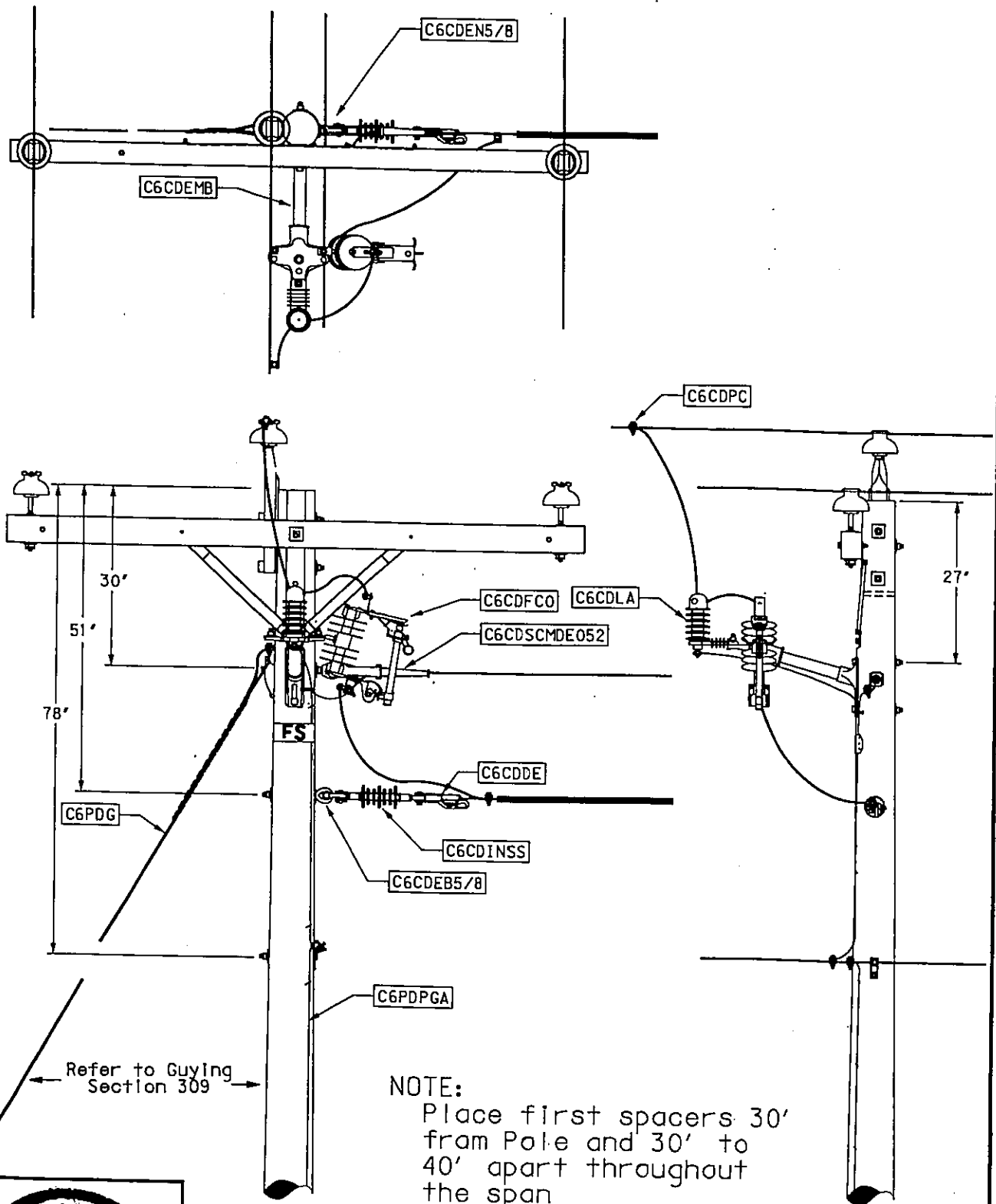
PAGE
331-7B

DESIGNED	CS	REVISED	REVISED
DRAWN	REC		
DATE	01/17/06		



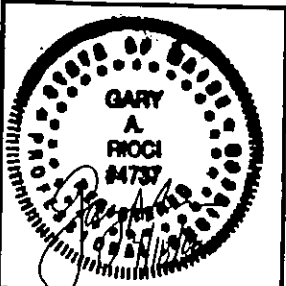
DESIGNED	JEC	ORIGINAL
DRAWN	GRG	
DATE	3/28/95	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
Place first spacers 30'
from Pole and 30' to
40' apart throughout
the span

1/0 neut required when installing
336.4 Kcmil AL. Primary Spacer Cable.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDNB	1	NEUTRAL BRACKET STEEL	
	4	TIE WIRE AL LOBBY	6000205XXX
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	1	WASHER,SQUARE,GALVANIZEO ALL SIZES	60002748XX
	1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDSCBMT14	1	SPACER CBL BKT MESS TANGENT 14IN	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WSHFLT GALVSQ2 1/4X3/16	6000274810
	1	BKT MESS TANGENT 14 IN	6000620290
C6CDSCBMT14AS	1	BKT ANTI-SWAY 14IN USE W/CDSCBMT14	
	1	B LAG GALV FET 1/2 X 4	6000272540
	1	BRACKET - ANTI-SWAY 14"	6000620390
C6CDSCBS	1	SPACER CBL STIRRUP USE/W ANTI-SWAY BKT	
	1	BKT STIRRUP	6000620380
C6CDSCMGA#2	1	SPACER CBL MESS GROUND ASSY #2	
	2	CONNECTORS	600011XXXX
	8	WIRE 2 CU 7STR BARE SD	6000206325
	4	STAPLES GALV F/4 GRD WR	6000274402
C6CDSCS15T	7	SPACER CBL SPACER W/TIES F/15KV CABLE	
	1	SPACER W/TIES F/15KV	6000221520
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
	1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

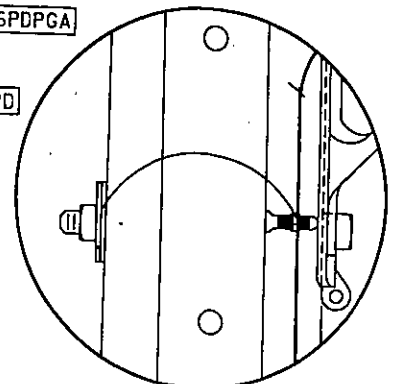
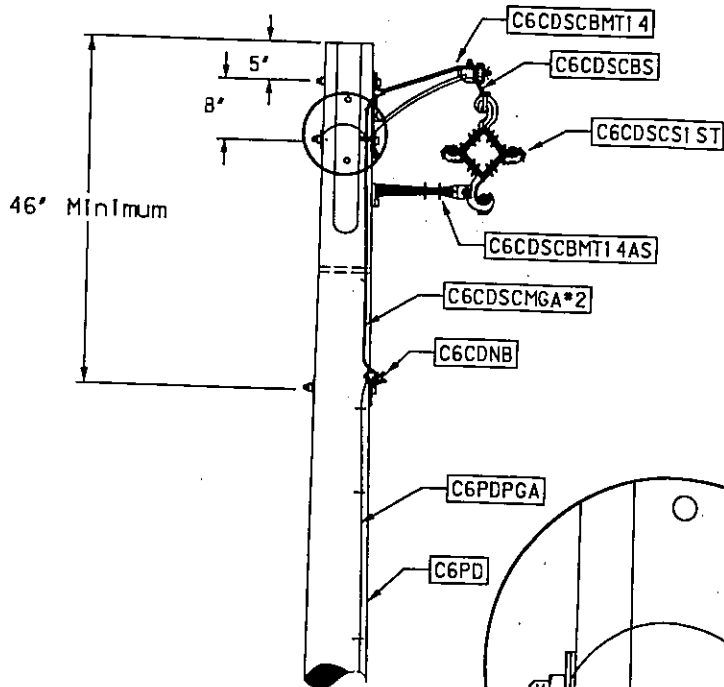
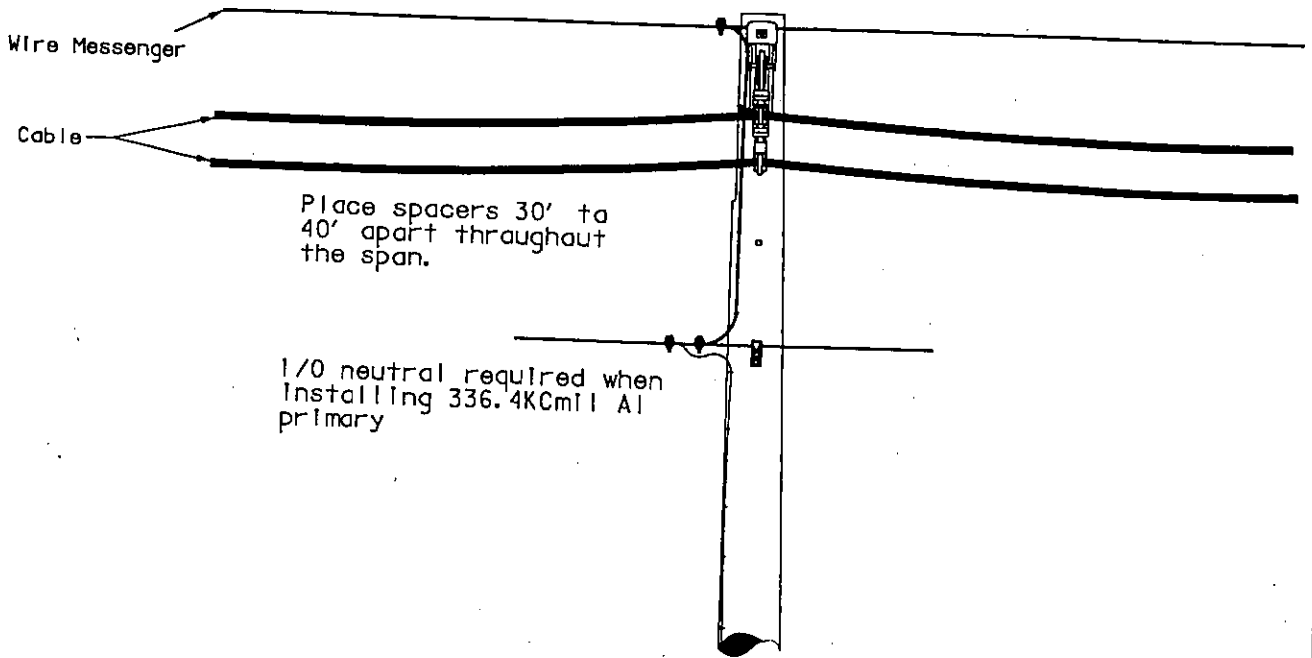
MACRO
C6MC3SCTAN

DESCRIPTION
3 PH SPACER CBL TANGENT STRUCTURE 12KV

PAGE
333-1B

0 - 5' CORNER

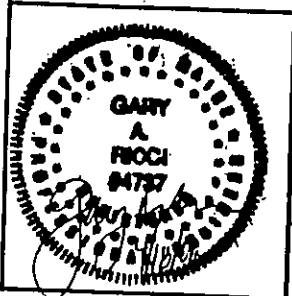
DESIGNED	REVISOR	REVISION
DRAWN	CS	
DATE	REC	
	01/24/06	



All metallic brackets shall be grounded.

DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	GRC
	5/30/96

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDSCBMT14	1	SPACER CBL BKT MESS TANGENT 14IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WSHFLT GALVSQ2 1/4X3/16	6000274810
		1 BKT MESS TANGENT 14 IN	6000620290
C6CDSCBS	1	SPACER CBL STIRRUP USE/W ANTI-SWAY BKT	
		1 BKT STIRRUP	6000620380
C6CDSCMGA#2	1	SPACER CBL MESS GROUND ASSY #2	
		2 CONNECTORS	600011XXXX
		8 WIRE 2 CU 7STR BARE SD	6000206325
		4 STAPLES GALV F/4 GRD WR	6000274402
C6CDSCPTE30	1	SPACER CBL POLE TOP EXT 30IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1 POLE TOP EXT 30IN STEEL	6000274214
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WSHFLT GALVSQ2 1/4X3/16	6000274810
C6CDSCS15T	1	SPACER CBL SPACER W/TIES F/15KV CABLE	
		1 SPACER W/TIES F/15KV	6000221520

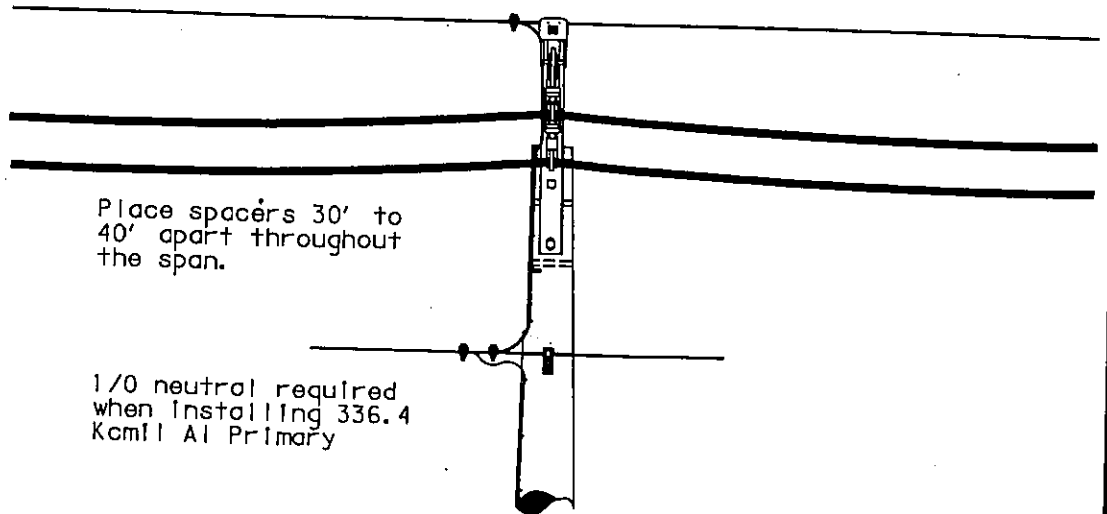
MACRO
C6MC3SCPTE30

DESCRIPTION
3 PH SPACER CBL 30 IN POLE TOP EXT 12KV

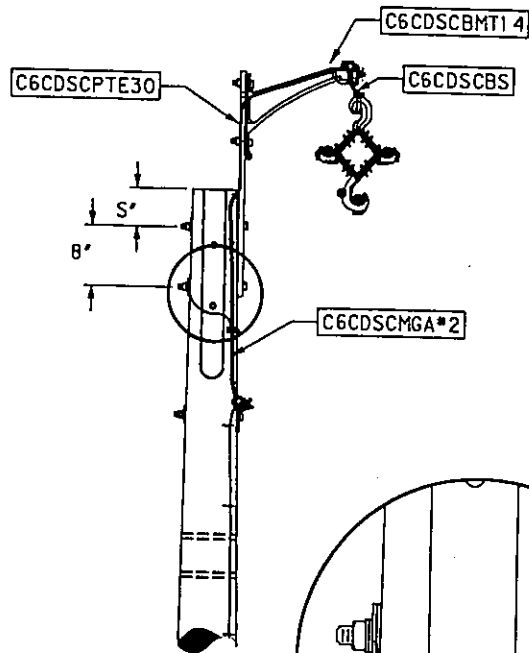
PAGE
333-2B

0 - 5' CORNER

DESIGNED	REVIS	REVISED
DRAWN	CS	
DATE	REC	
	01/24/06	

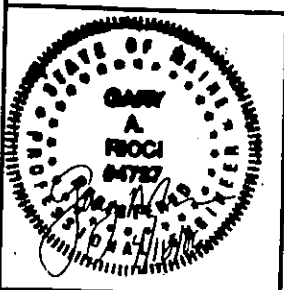


DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	GRC
	5/30/96



All metallic brackets shall be grounded.

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID	
C6CDSCBMT14	1	SPACER CBL BKT MESS TANGENT 14IN		
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WSHFLT GALVSQ2 1/4X3/16	6000274810
		1	BKT MESS TANGENT 14 IN	6000620290
C6CDSCBS	1	SPACER CBL STIRRUP USEW ANTI-SWAY BKT		
		1	BKT STIRRUP	6000620380
C6CDSCMGA#2	1	SPACER CBL MESS GROUND ASSY #2		
		2	CONNECTORS	600011XXXX
		8	WIRE 2 CU 7STR BARE SD	6000206325
		4	STAPLES GALV F/4 GRD WR	6000274402
C6CDSCPTE60	1	SPACER CBL POLE TOP EXTN 60IN		
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1	POLE TOP EXT F/SPACER C	6000274220
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WSHFLT GALVSQ2 1/4X3/16	6000274810
C6CDSCS15T	1	SPACER CBL SPACER W/TIES F/15KV CABLE		
		1	SPACER W/TIES F/15KV	6000221520

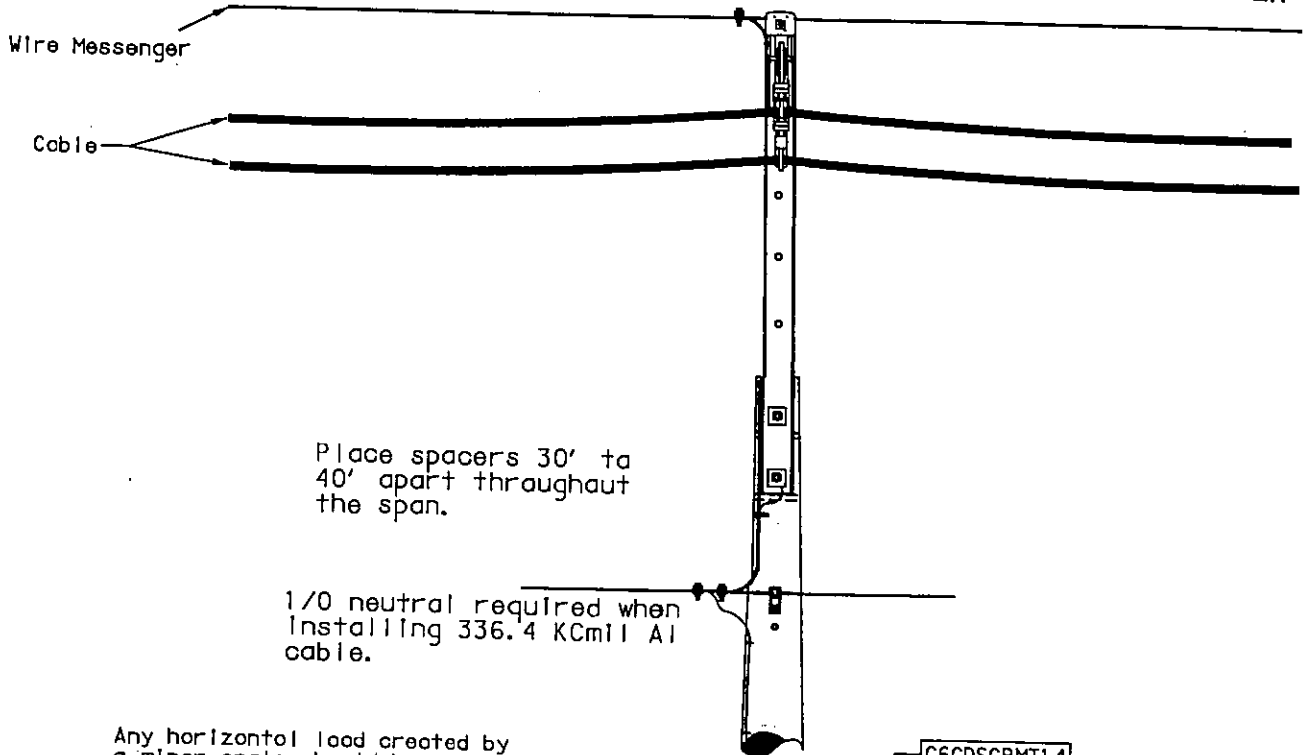
MACRO
C6MC3SCPTE60

DESCRIPTION
3 PH SPACER CBL 60 IN POLE TOP EXT 12KV

PAGE
333-3B

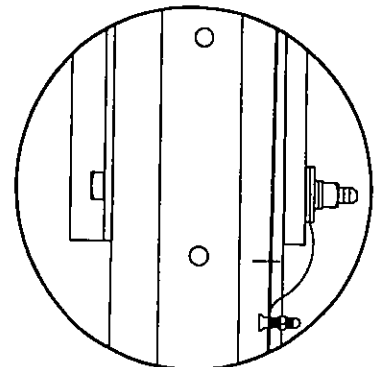
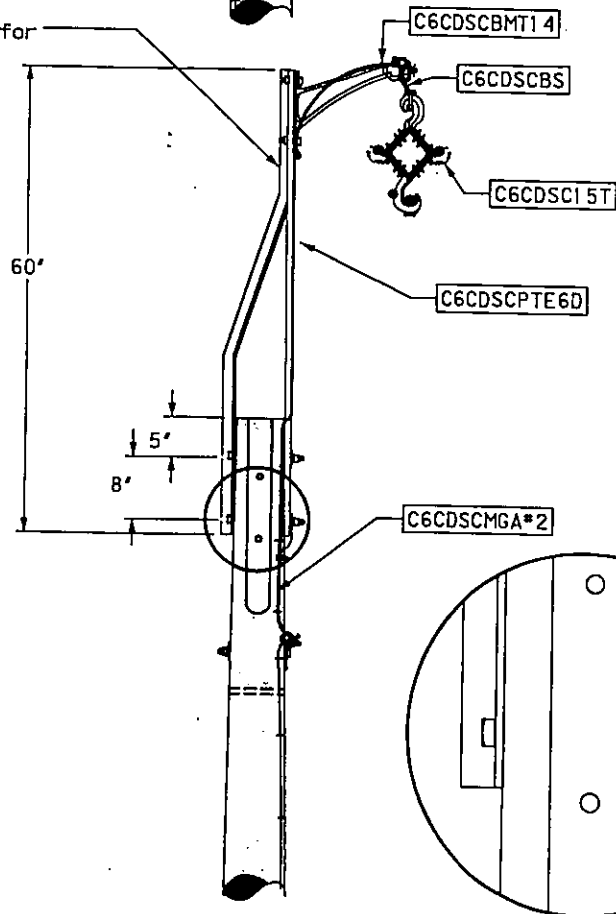
0 - 5' CORNER

DESIGNED	REVISOR	REVISION
DRAWN	REVISOR	REVISION
DATE	REVISOR	REVISION
	CS	
	REC	
	01/24/06	



1/0 neutral required when installing 336.4 KCMIL Al cable.

Any horizontal load created by a minor angle should be guyed for proper construction.

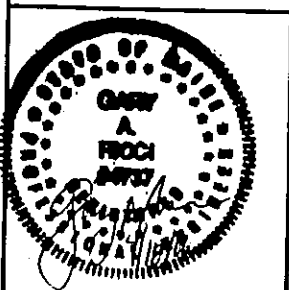


All metallic brackets shall be grounded.



DESIGNED	ORIGINAL
DRAWN	JEC
DATE	GRG
	5/31/96

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

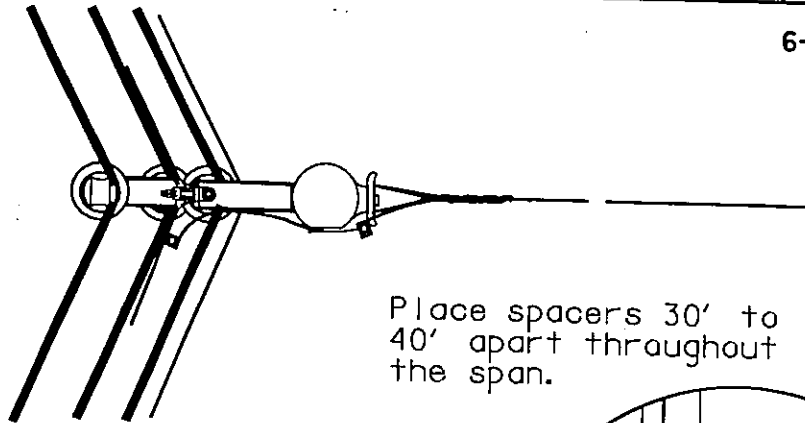
<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6CDEB5/B	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1 BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDINSPT15TW	3	INSULATOR PIN TYPE F 15KV TREE WIRE	
		5 WIRE TIE #4AL ML BTPR	6000205358
		1 INS PIN TYPE TREE 15KV	6000310352
C6COIPSS3/4	3	INS PIN STEEL SHORT SHANK 3/4 INCH	
		1 PIN SHORT SHANK 3/4 IN	6000273980
C6CDSCBA15/4	1	SPACER CBL BKT ANGLE 15KV 4 COND	
		2 BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		2 WSH 2 TURN SPR GALV 3/4	6000274610
		2 WSHFLT GALV SO2 1/4X3/16	6000274810
		1 BKT ANG 15KV 4 WIRE	6000620440
C6CDSCMGA#2	1	SPACER CBL MESS GROUND ASSY #2	
		2 CONNECTORS	600011XXXX
		8 WIRE 2 CU 7STR BARE SD	6000206325
		4 STAPLES GALV F/4 GRD WR	6000274402
C6CDSCS15T	6	SPACER CBL SPACER W/TIES F/15KV CABLE	
		1 SPACER W/TIES F/15KV	6000221520
C6CDSSC	1	SEMI STRAIN CLAMP	
		1 SEMI STRAIN CLAMP ALUM OR GALV. STEEL	60001113XX
C6CDSSC6-4/0	1	SEMI STRAIN CLAMP 6 TO 4/0	
		1 CL S/STRAIN 6 TO 4/0CU	6000111368
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		1 POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		1 ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1 GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDPGA	1	POLE GROUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		8 MOULDING PLAS 1/2 IN GR	6000251680
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		6 STAPLE F/ 1/2IN MOLOING	6000274410
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MC3SCA6-60

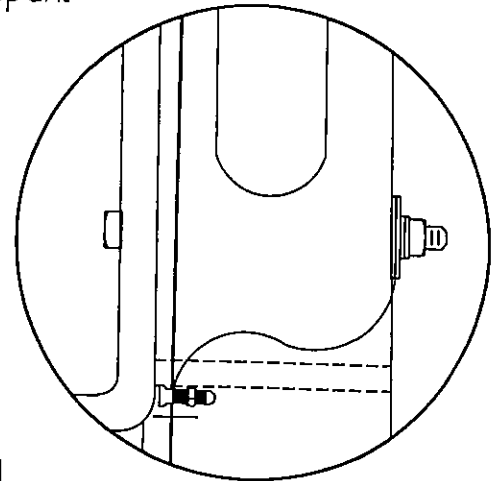
DESCRIPTION
3 PH SPACER CBL ANGLE STRUCT 6-60 FT 12KV

PAGE
333-4B

6-60 FT Corner



Place spacers 30' to 40' apart throughout the span.



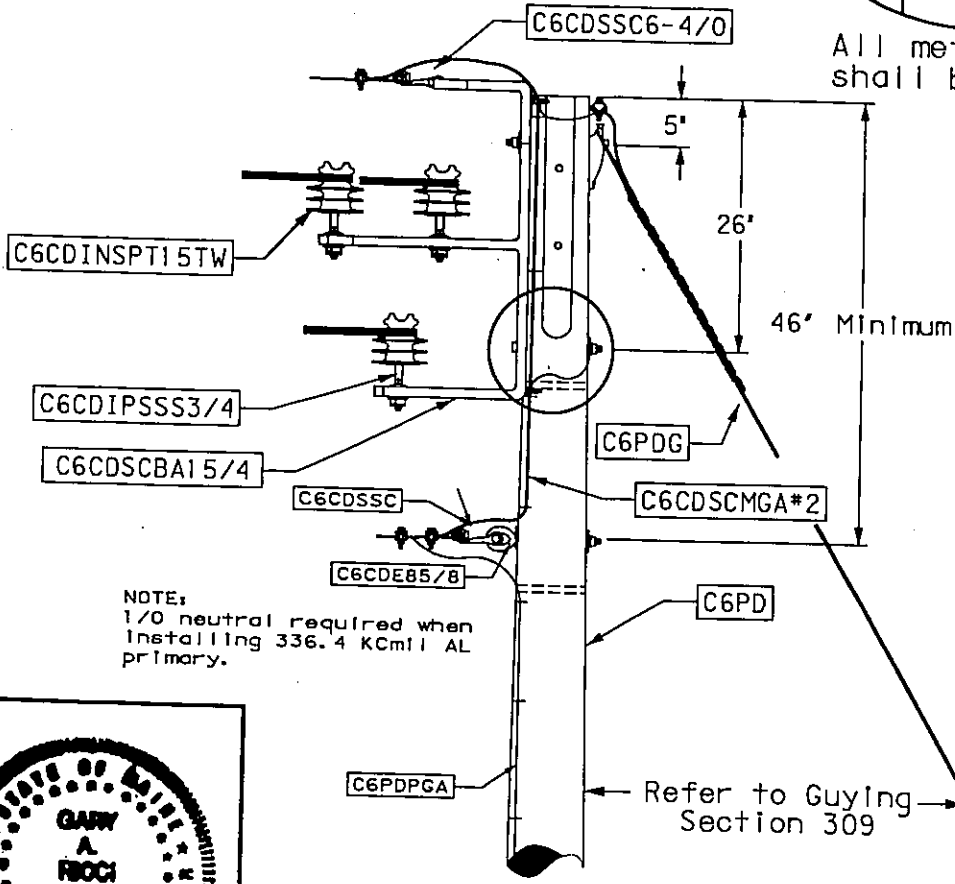
All metallic brackets shall be grounded.

DESIGNED	REVISOR	REVISION
DRAWN	CS	
DATE	REC	
	01/24/06	



DESIGNED	JEC
DRAWN	GRC
DATE	5/2/96

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



NOTE:
1/0 neutral required when installing 336.4 Kcmil AL primary.



Distribution Construction Standards - CMP Co.

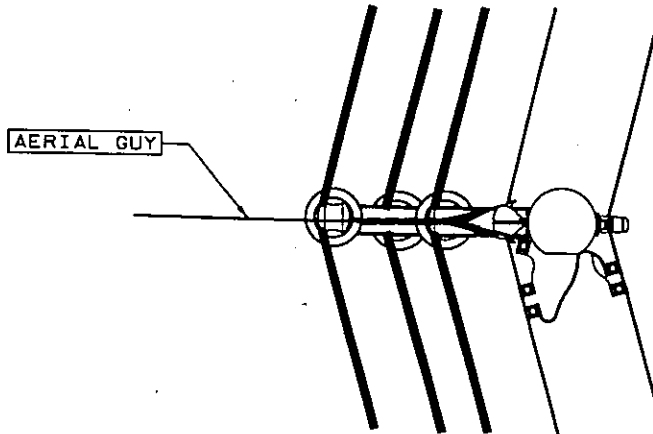
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT15TW	3	INSULATOR PIN TYPE F 15KV TREE WIRE	
	5	WIRE TIE #4AL MIL BTPR	6000205358
	1	INS PIN TYPE TREE 15KV	6000310352
C6CDIPSSS3/4	3	INS PIN STEEL SHORT SHANK 3/4 INCH	
	1	PIN SHORT SHANK 3/4 IN	6000273980
C6CDNB	1	NEUTRAL BRACKET STEEL	
	4	TIE WIRE AL LOBBY	6000205XXX
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	1	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
	1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CQSCBA15/4	1	SPACER CBL BKT ANGLE 15KV 4 COND	
	2	BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
	2	WSH 2 TURN SPR GALV 3/4	6000274610
	2	WSHFLT GALVSO2 1/4X3/16	6000274810
	1	BKT ANG 15KV 4 WIRE	6000620440
C6CDSCMBIA	1	SPACER CBL MESS BOLT 1/4 USE W/CDSCMCIA	
	1	B U MESS 1/SD ANG F/BA4	6000272560
C6CDSCMCIA	1	SPACER CBL MESS CLAMP 1/4 USE W/CDSCMBIA	
	1	CL MESS 1/SD ANG F/BA4	6000111330
C6CDSCMGA#2	1	SPACER CBL MESS GROUND ASSY #2	
	2	CONNECTORS	600011XXXX
	8	WIRE 2 CU 7STR BARE SO	6000206325
	4	STAPLES GALV F/4 GRD WR	6000274402
C6CDSCS15T	6	SPACER CBL SPACER WTIES F/15KV CABLE	
	1	SPACER WTIES F/15KV	6000221520
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
	1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MC3SC16-25

DESCRIPTION
3 PH SPACER CBL INSIDE ANGLE 6-25 FT 12KV

PAGE
333-5B

6-25FT Corner



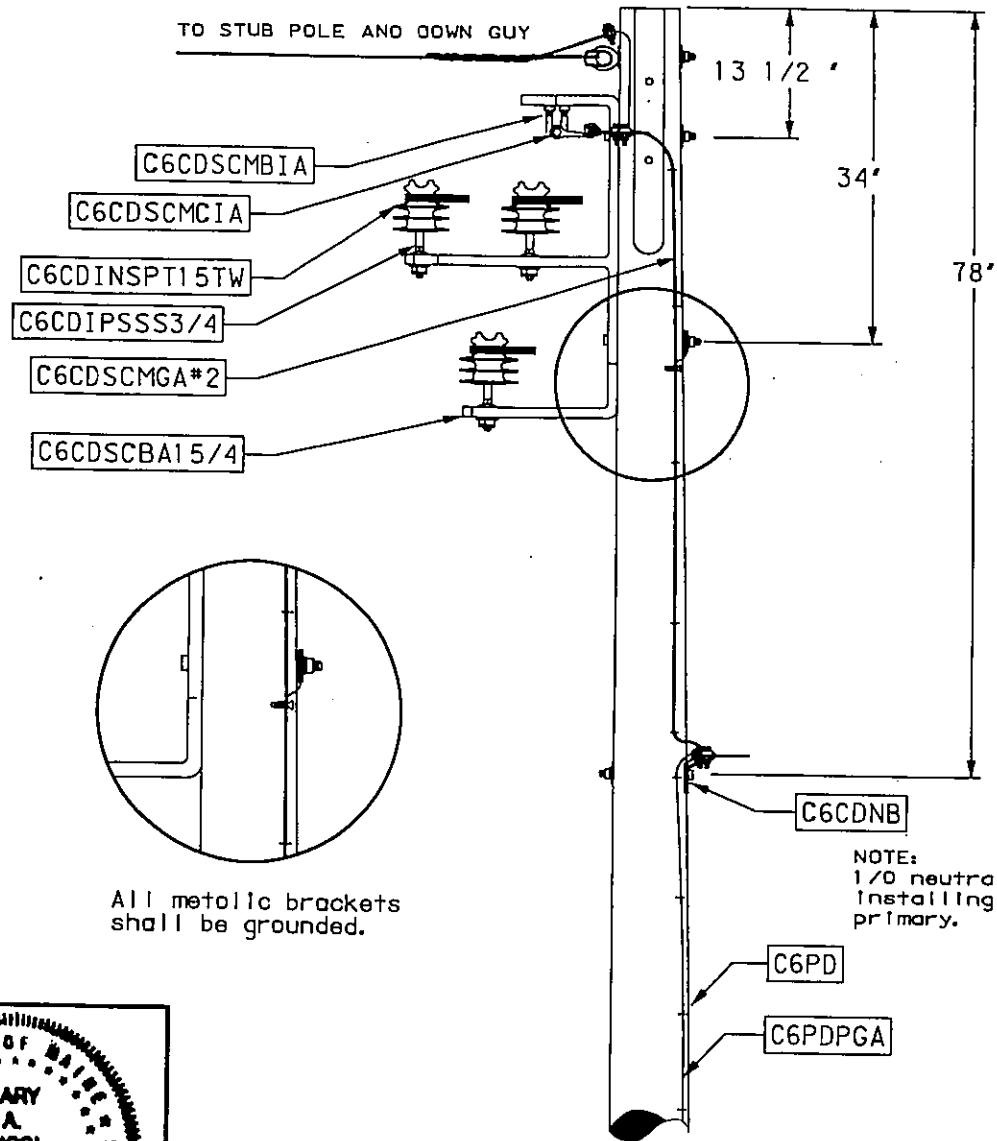
Place spacers 30' to 40' apart throughout the span.

DESIGNED	REVISOR	REVISION	DATE
CS			
REC			
DATE	02/07/06		



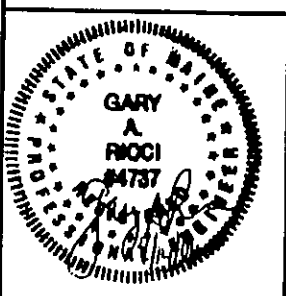
DESIGNED	ORIGINAL
JEC	JEC
GRG	GRG
DATE	11/30/96

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



All metallic brackets shall be grounded.

NOTE:
1/0 neutral required when installing 336.4 KCMIL AL primary.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mail		Description	Material ID
C6CDDE	4		DEADEND COND. GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1		EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	4		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	3		SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CQINSS	3		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6CDLA9	3		LIGHTNING ARRESTOR 10KV	
		2	CONNECTORS	600011XXXX
		1	WILDLIFE PROTECTOR	60003128XX
		1	ARR DIST 10KV	6000490060
C6CDLAMB	3		XARM MOUNTING BRACKET	
		1	BKT EQUIP MTG CROSSARM	6000620100
C6COPC	4		CONNECTOR, PRIMARY	
		1	CONNECTORS	600011XXXX
C6CDSCMOE052	1		SPACER CBL MESS DEADEND 052 A/W	
		1	D/E MESS .052 7NO 8 A/W	6000110806
		1	BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		1	NUT EYE THIMBLE 3/4 TAP	6000273460
		1	WSH 2 TURN SPR GALV 3/4	6000274610
		1	WASHER SO FLAT GALVN 4 X 4 X 3/16, 3/4	6000274840
C6CQSCGA#2	1		SPACER CBL MESS GROUND ASSY #2	
		2	CONNECTORS	600011XXXX
		8	WIRE 2 CU 7STR BARE SO	6000206325
		4	STAPLES GALV F/4 GRD WR	6000274402
C6CDSCS15T	6		SPACER CBL SPACER W/TIES F/15KV CABLE	
		1	SPACER W/TIES F/15KV	6000221520
C6PD	1		POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1		ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1		GUY GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6POPGA	1		POLE GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		8	MOULDING PLAS 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRO WR	6000274402
		6	STAPLE F/ 1/2IN MOLDING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S O	751182
C6PDXA8	2		XARM, 6PIN, 8FT	
		1	XARM 6PIN'8	6000740510
C6PDXADH	1		XARM, DOUBLE, HARDWARE ONLY	
		4	B CARR GALV 3/8 X 5	6000270310
		3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2	B LAG GALV FET 1/2 X 4	6000272540
		4	BRACE XARM 28 IN	6000272670
		10	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3SCDE

DESCRIPTION
3PH SPACER CABLE DEADEND 12KV

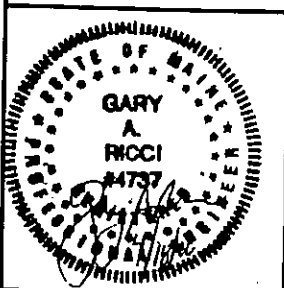
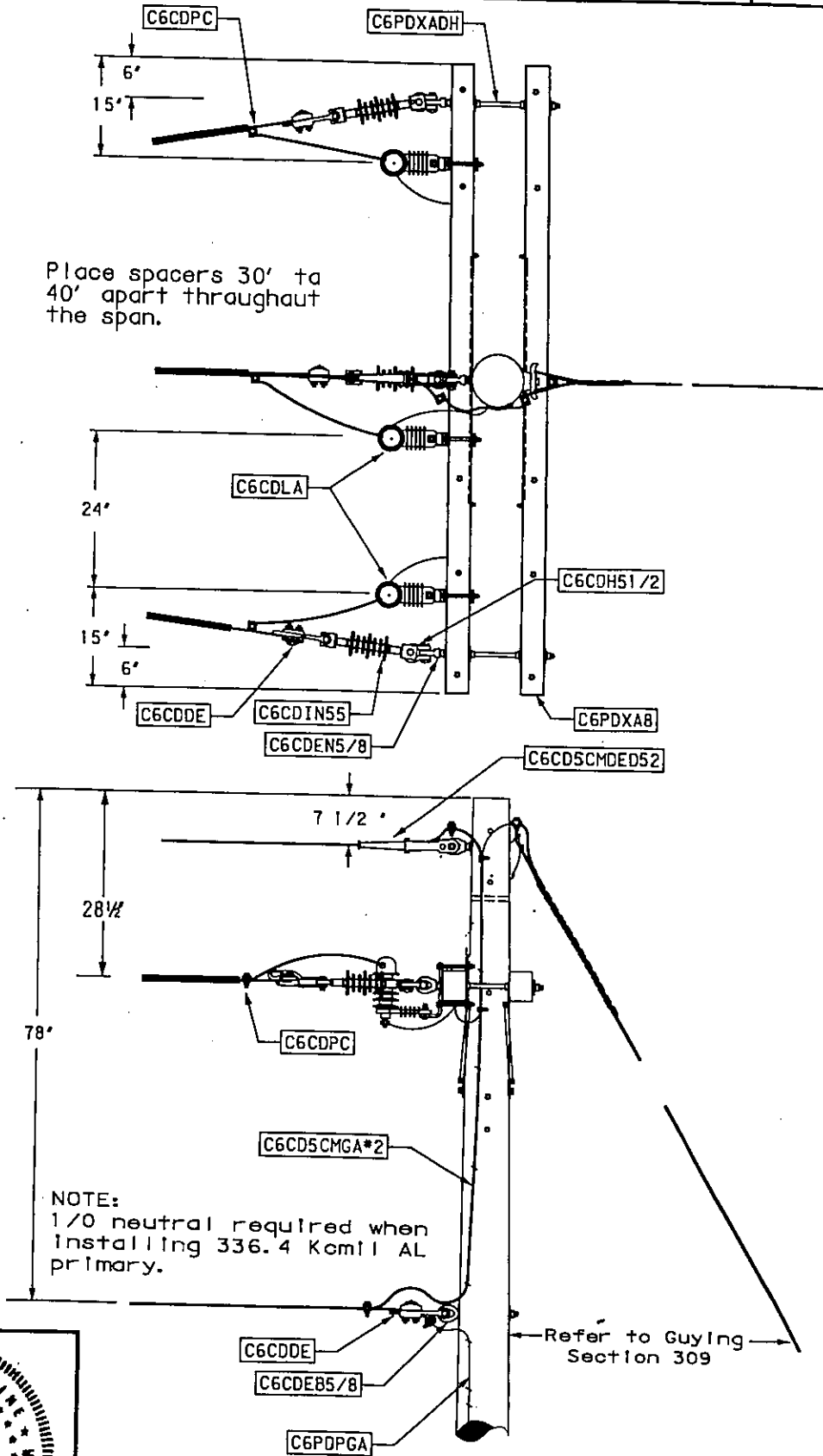
PAGE
333-6B

DESIGNED	REVISOR	REVISION	DATE
CS	CS	10/24/00	12/10/03
CS	CS	01/17/06	



DESIGNED	REDRAWN
DATE	DATE
GRC	11/9/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



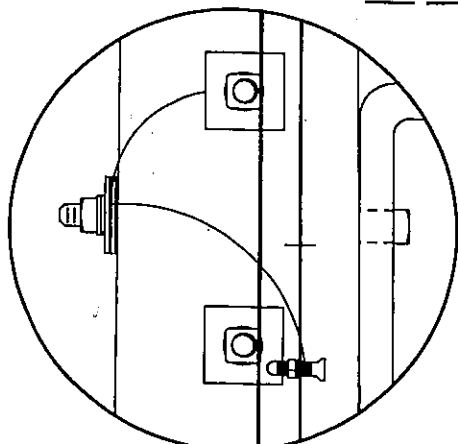
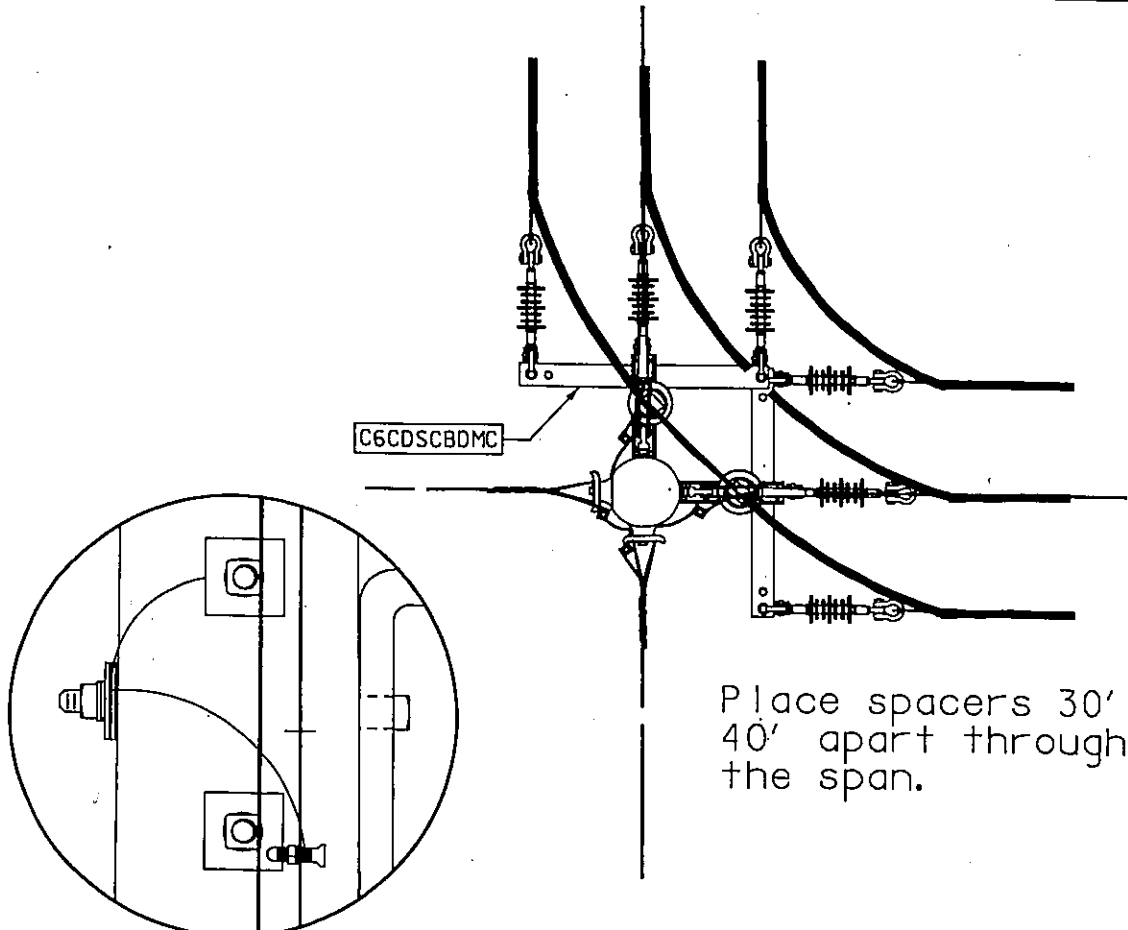
CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat		Description	Material ID
C6CDDE	2		DEADEND COND. GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1		EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	2		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	12		SHACKLE 1/2 IN W 5/8 IN PIN	
		1	SHACKLE 1/2 IN W 5/8 PIN	6000274320
C6CDINSPT15TW	2		INSULATOR PIN TYPE F 15KV TREE WIRE	
		5	WIRE TIE #4AL MIL BTPR	6000205358
		1	INS PIN TYPE TREE 15KV	6000310352
C6CDINSS	6		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6CDPC	4		CONNECTOR PRIMARY	
		1	CONNECTORS	600011XXXX
C6CDSCBDMC	2		SPACER CBL BKT DEADEND MESS & COND	
		2	WSH 2 TURN SPR GALV 3/4	6000274610
		2	WSHFLT GALVSQ2 1/4X3/16	6000274810
		1	BKT MESS & COND D/E	6000620350
C6CDSCDEG336	6		GRIP D/E 336 SPACER CABLE	
		1	GRIP D/E 336 SPACER CBL	6000221531
C6CDSCMDE052	2		SPACER CBL MESS DEADEND 052 A/W	
		1	D/E MESS .052 7NO 6 AW	6000110806
		1	BOLT THRU 3/4 IN. ALL SIZES	60002721XX
		1	NUT EYE THIMBLE 3/4 TAP	6000273460
		1	WSH 2 TURN SPR GALV 3/4	6000274610
		1	WASHER SQ FLAT GALVN 4 X 4 X 3/16, 3/4	6000274840
C6CDSCMGA#2	1		SPACER CBL MESS GROUND ASSY #2	
		2	CONNECTORS	600011XXXX
		8	WIRE 2 CU 7STR BARE SD	6000206325
		4	STAPLES GALV F/4 GRD WR	6000274402
C6CDSCS15T	6		SPACER CBL SPACER W/TIES F/15KV CABLE	
		1	SPACER W/TIES F/15KV	6000221520
C6PD	1		POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SELECT FROM CUCT)	600074XXXX
C6POA	2		ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	2		GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDPGA	1		POLE GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		8	MOULDING PLAS 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		6	STAPLE F/ 1/2 IN MOLDING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S.O.	751182

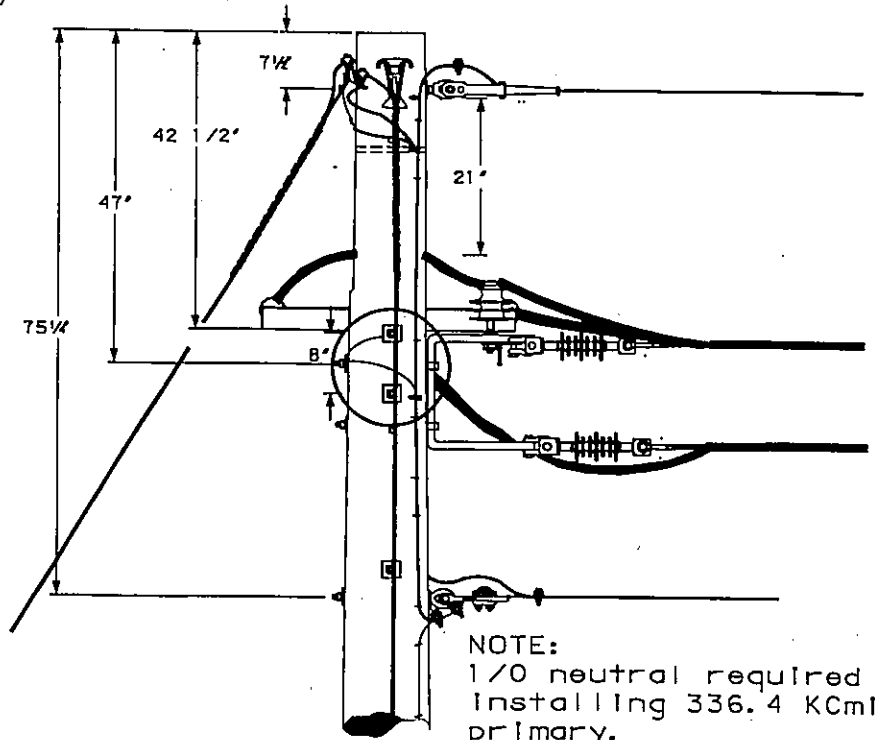
	REVISED	REVISED
	DESIGNED	REVISED
	DRAWN	REVISED
	DATE	REVISED



Place spacers 30' to 40' apart throughout the span.

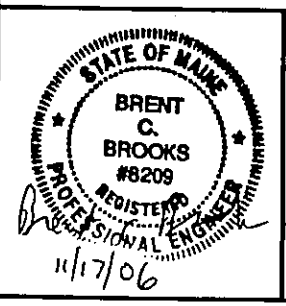
All metallic brackets shall be grounded.

	ORIGINAL	CS
	DESIGNED	REC
	DRAWN	DATE
		11/18/06



NOTE:
1/0 neutral required when installing 336.4 Kcmil AL primary.

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6CDDE	8	DEADEND CDND_GENERIC (SELECT FROM CUCT)	
		DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	3	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER SQUARE GALVANIZED ALL SIZES	60002746XX
C6CDEN5/8	7	EYE NUT ROUND 5/8 INCH	
		NUT EYE ROUND 5/8 TAP	6000273430
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	6	SHACKLE 1/2 IN W 5/8 IN PIN	
		SHACKLE 1/2 IN W 5/8 PIN	6000274320
C6CDINSPT	3	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDINSS	6	INS DEADEND GENERIC (SELECT FROM CUCT)	
		INSULATORS	6000310XXX
C6CDIPIN	3	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDLA9	3	LIGHTNING ARRESTDR 10KV	
		CONNECTORS	600011XXXX
		WILDLIFE PROTECTOR	6000312EXX
		ARR DIST 10KV	6000490060
C6CDLAMR	3	XARM MDUNTING BRACKET	
		BKT EQUIP MTG CROSSARM	6000620100
C6CDPC	8	CONNECTOR PRIMARY	
		CONNECTORS	600011XXXX
C6CDSCMDE052	1	SPACER CBL MESS DEADEND 052 AWW	
		D/E MESS_052 7NO 6 AW	6000110B06
		BOLT, THRU 3/4 IN, ALL SIZES	60002721XX
		NUT EYE THIMBLE 3/4 TAP	6000273460
		WSH 2 TURN SPR GALV 3/4	6000274610
		WASHER SD FLAT GALVN 4 X 4 X 3/16, 3/4	6000274840
C6CDSCMGA#2	1	SPACER CBL MESS GROUND ASSY #2	
		CONNECTORS	600011XXXX
		WIRE 2 CU 7STR BARE SD	6000206325
		STAPLES GALV F/4 GRD WR	6000274402
C6CDTW	1B	TAP WIRE GENERIC (SELECT FROM CUCT)	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SELECT FROM CUCT)	600074XXXX
C6PDA	1	ANCHOR, GENERIC (SELECT FROM CUCT)	
		ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		GUY (SEE TABLE PAGE 309-6)	60002527XX
C6PDGSLF	1	GUY STRAIN LINK, F/G 36IN (LINK ONLY)	
		INS STRAIN 21000LBX36IN	6000251620
C6PDPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4X8FT	6000251860
		STAPLES GALV F/4 GRD WR	6000274402
		STAPLE F/ 1/2IN MOLDING	6000274410
		WIRE NO. 4 CU GRDUND BARE STRANDED S D	7511B2
C6PDXAB	2	XARM, 6PIN, 8FT	
		XARM 6PIN B	6000740510
C6PDXADH	1	XARM, DDUBLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, SPACE, 5/8 IN, ALL SIZES	600027217X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER SQUARE GALVANIZED ALL SIZES	60002746XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3SCDE-0W

DESCRIPTION
3PH SPACER CBL DEADEND TO OPEN WIRE 12KV

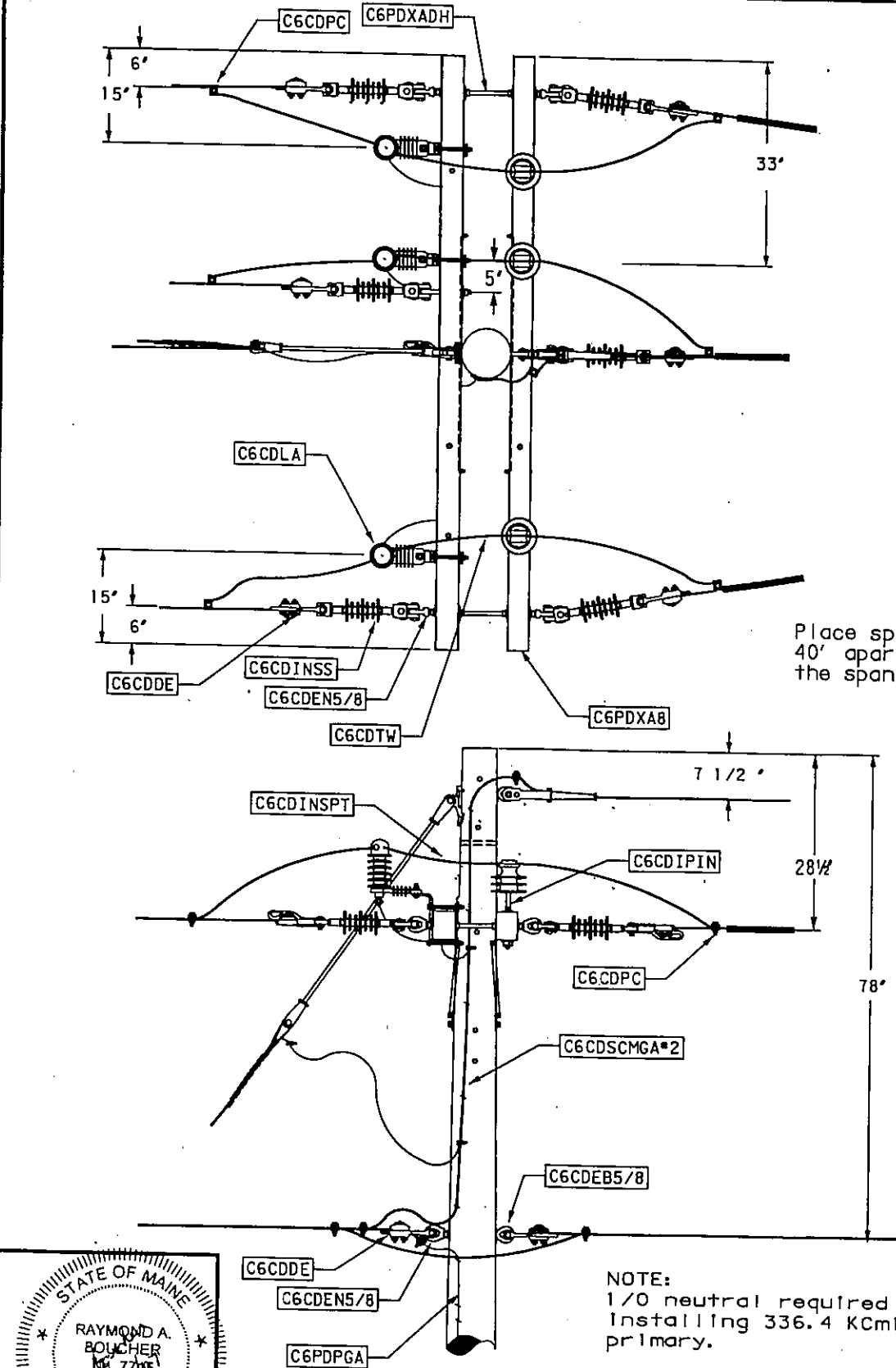
PAGE
333-8B

NO.	REVISION	DATE	CK.
1	Corrected measurement	7/2/93	RJA

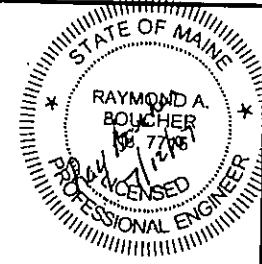


ORIGINAL	DESIGNED	REDRAWN

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
1/0 neutral required when
installing 336.4 KCMIL AL
primary.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

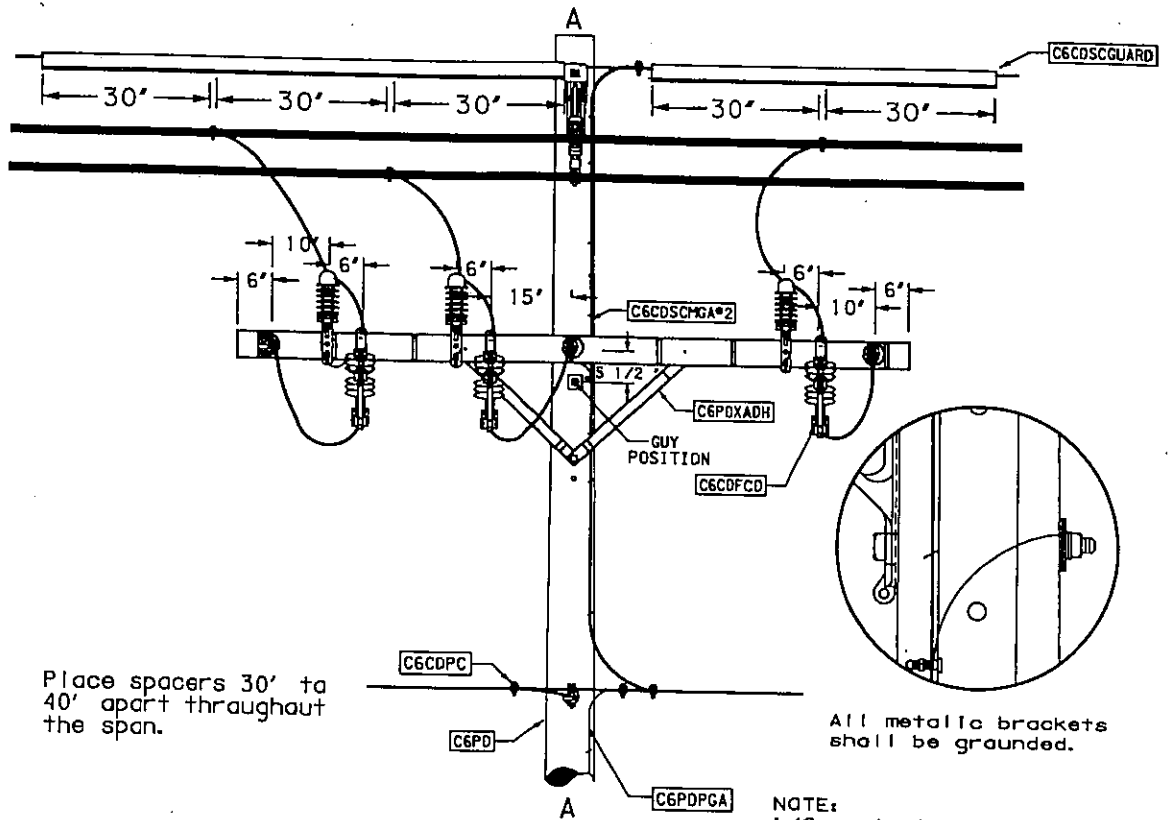
CU Number	Quantity - CU/Mat		Description	Material ID
C6CDDE	4		DEADEND COND. GENERIC (SELECT FROM CUCT)	
		1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1		EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	3		EYE NUT ROUND 5/8 INCH	
		1	NUT EYE ROUND 5/8 TAP	6000273430
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6CDFCO	3		FUSED CUTOUT GENERIC (SELECT FROM CUCT)	
		1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6CDHS1/2	3		SHACKLE 1/2IN W 5/8IN PIN	
		1	SHACKLE 1/2 IN W/5/8PIN	6000274320
C6CDINSS	3		INS DEADEND GENERIC (SELECT FROM CUCT)	
		1	INSULATORS	6000310XXX
C6CDLA9	3		LIGHTNING ARRESTOR 10KV	
		2	CONNECTORS	600011XXXX
		1	WILDLIFE PROTECTOR	60003128XX
		1	ARR DIST 10KV	6000490060
C6CDLAMB	6		XARM MOUNTING BRACKET	
		1	BKT EQUIP MTG CROSSARM	6000620100
C6CDN8	1		NEUTRAL BRACKET STEEL	
		4	TIE WIRE AL LD88Y	6000205XXX
		1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		1	WSH 2 TURN SPR GALV 5/8	6000274600
		1	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1	BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPC	4		CONNECTOR, PRIMARY	
		1	CONNECTORS	600011XXXX
C6CDSC8MT14	1		SPACER CBL BKT MESS TANGENT 14IN	
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WSHFLT GALVSQ2 1/4X3/16	6000274810
		1	BKT MESS TANGENT 14 IN	6000620290
C6CDSC8MT14AS	1		BKT ANTI-SWAY 14IN USE W/CDSC8MT14	
		1	B LAG GALV FET 1/2 X 4	6000272540
		1	BRACKET - ANTI-SWAY 14"	6000620390
C6CDSCBS	1		SPACER CBL STIRRUP USE/W ANTI-SWAY BKT	
		1	BKT STIRRUP	6000620380
C6CDSCGUARDS	2		GUARD LINE CLIP ON 1" X 8" STANDARD	
		1	GUARD LINE CLIP ON STAN	6000220922
C6CDSCMGA#2	2		SPACER CBL MESS GROUND ASSY #2	
		2	CONNECTORS	600011XXXX
		8	WIRE 2 CU 7STR BARE SD	6000206325
		4	STAPLES GALV F/4 GRD WR	6000274402
C6CDSCS15T	7		SPACER CBL SPACER W/TIES F/15KV CABLE	
		1	SPACER W/TIES F/15KV	6000221520
C6PD	1		POLE GENERIC (SELECT FROM CUCT)	
		1	POLES (SLECT FROM CUCT)	600074XXXX
C6PDA	1		ANCHOR, GENERIC (SELECT FROM CUCT)	
		1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	1		GUY, GENERIC (SEE TABLE PAGE 309-6)	
		1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDPGA	1		POLE GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		8	MOULDING PLAS 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		6	STAPLE F/ 1/2IN MOLDING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA10	2		XARM, 8PINB, 10 FT	
		1	XARM 8 PIN B	6000740540
C6PDXADH	1		XARM, DOUBLE, HARDWARE ONLY	
		4	B CARR GALV 3/8 X 5	6000270310
		3	BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2	B LAG GALV FET 1/2 X 4	6000272540
		4	BRACE XARM 28 IN	6000272670
		10	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

DESIGNED	JEC	REVIS	C5
DRAWN	GRG	REC	
DATE	9/5/95		02/02/06



DESIGNED	JEC	ORIGINAL
DRAWN	GRG	
DATE	4/11/95	

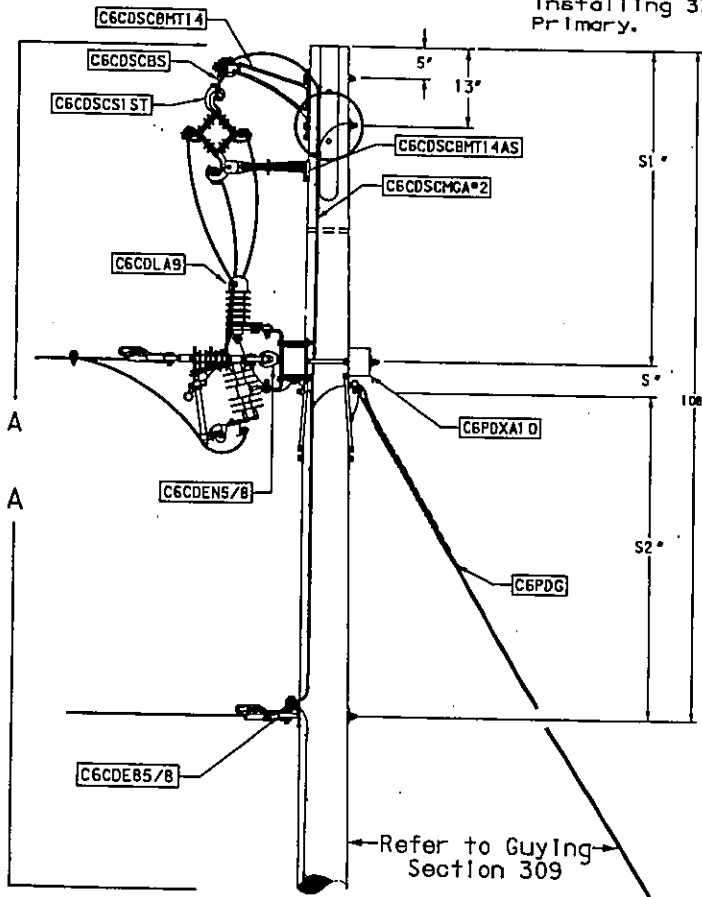
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Place spacers 30' to 40' apart throughout the span.

All metallic brackets shall be grounded.

NOTE:
1/0 neutral required when installing 336.4 Komli AL Primary.



Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6COINSPT	3	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6COIPIN	2	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPC	4	CONNECTOR, PRIMARY	
		CONNECTORS	600011XXXX
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 24X1 3/8INCH	6000274170
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6CDSCBMT14	1	SPACER CBL BKT MESS TANGENT 14IN	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WSHFLT GALVSQ2 1/4X3/16	6000274810
		BKT MESS TANGENT 14 IN	6000620290
C6CDSCBMT14AS	1	BKT ANTI-SWAY 14IN USE W/CDSCBMT14	
		B LAG GALV FET 1/2 X 4	6000272540
		BRACKET - ANTI-SWAY 14"	6000620390
C6CDSCBS	1	SPACER CBL STIRRUP USE/W ANTI-SWAY BKT	
		BKT STIRRUP	6000620380
C6CDSCMGA#2	1	SPACER CBL MESS GROUND ASSY #2	
		CONNECTORS	600011XXXX
		WIRE 2 CU 7STR BARE SD	6000206325
		STAPLES GALV F/4 GRD WR	6000274402
C6CDSCS15T	7	SPACER CBL SPACER W/TIES F/15KV CABLE	
		SPACER W/TIES F/15KV	6000221520
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6POPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4X8FT	6000251860
		STAPLES GALV F/4 GRO WR	6000274402
		STAPLE F/ 1/2IN MOLDING	6000274410
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA8	1	XARM, 6PIN, 8FT	
		XARM 6PIN B	6000740510
C6PDXASH	1	XARM, SINGLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX

MACRO
C6MC3SPC/30B

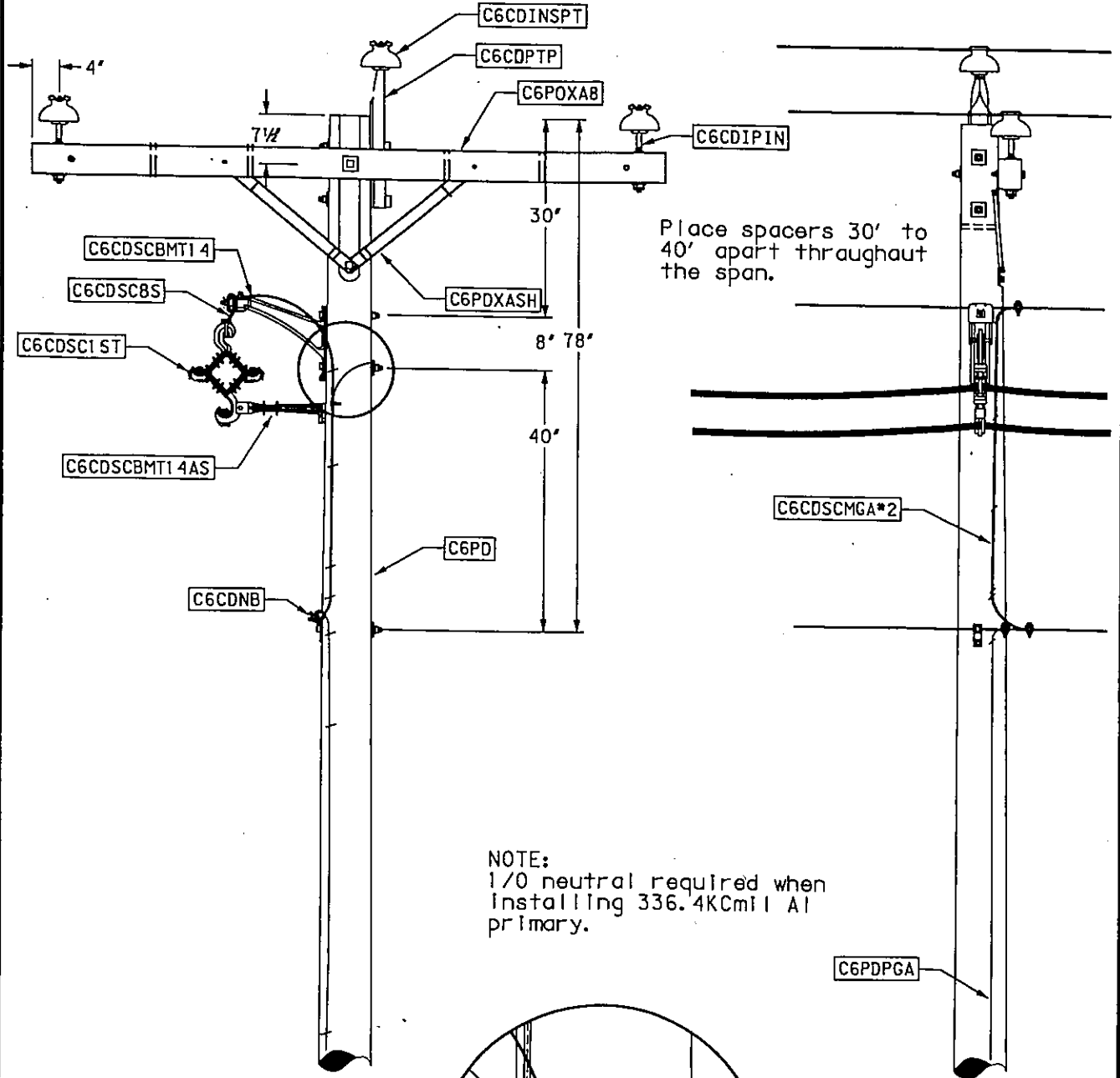
DESCRIPTION
3PH SPACER CBL W/3PH OVERBUILD STR 12KV

PAGE
333-10B

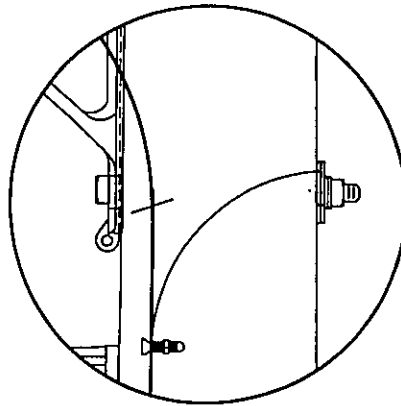
DESIGNED	REVIS	REVISED
DRAWN	REVISED	REVISED
DATE		

DESIGNED	CS	ORIGINAL
DRAWN	REC	
DATE	01/17/06	

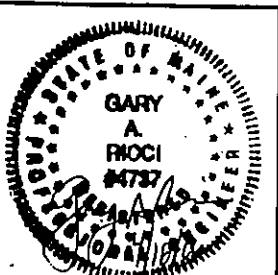
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
1/0 neutral required when
installing 336.4Kcmil Al
primary.



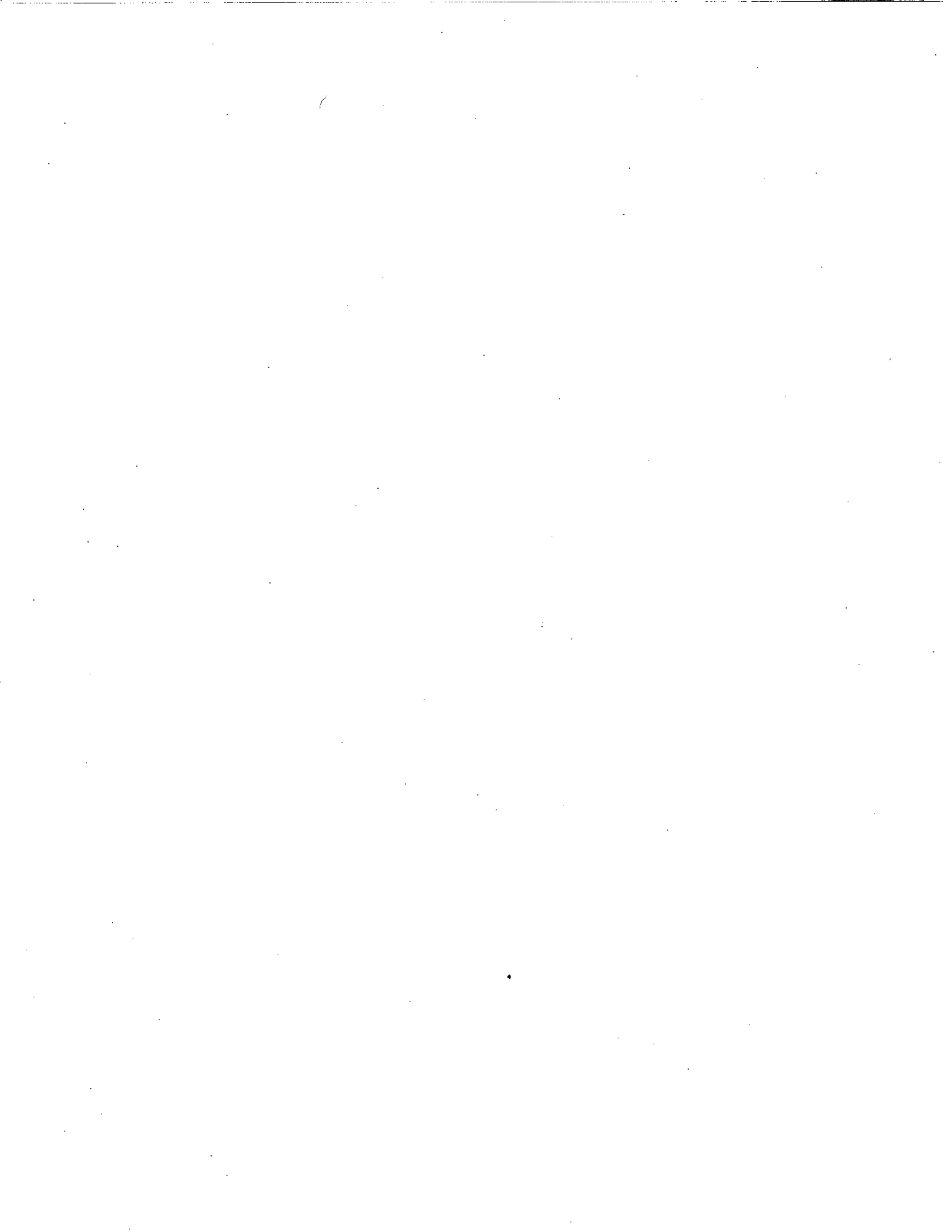
All metallic brackets
shall be grounded.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS









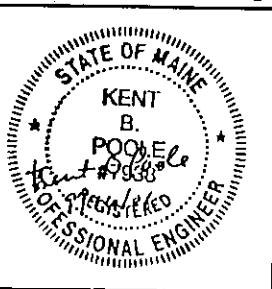
General
Fiber Optic Cable

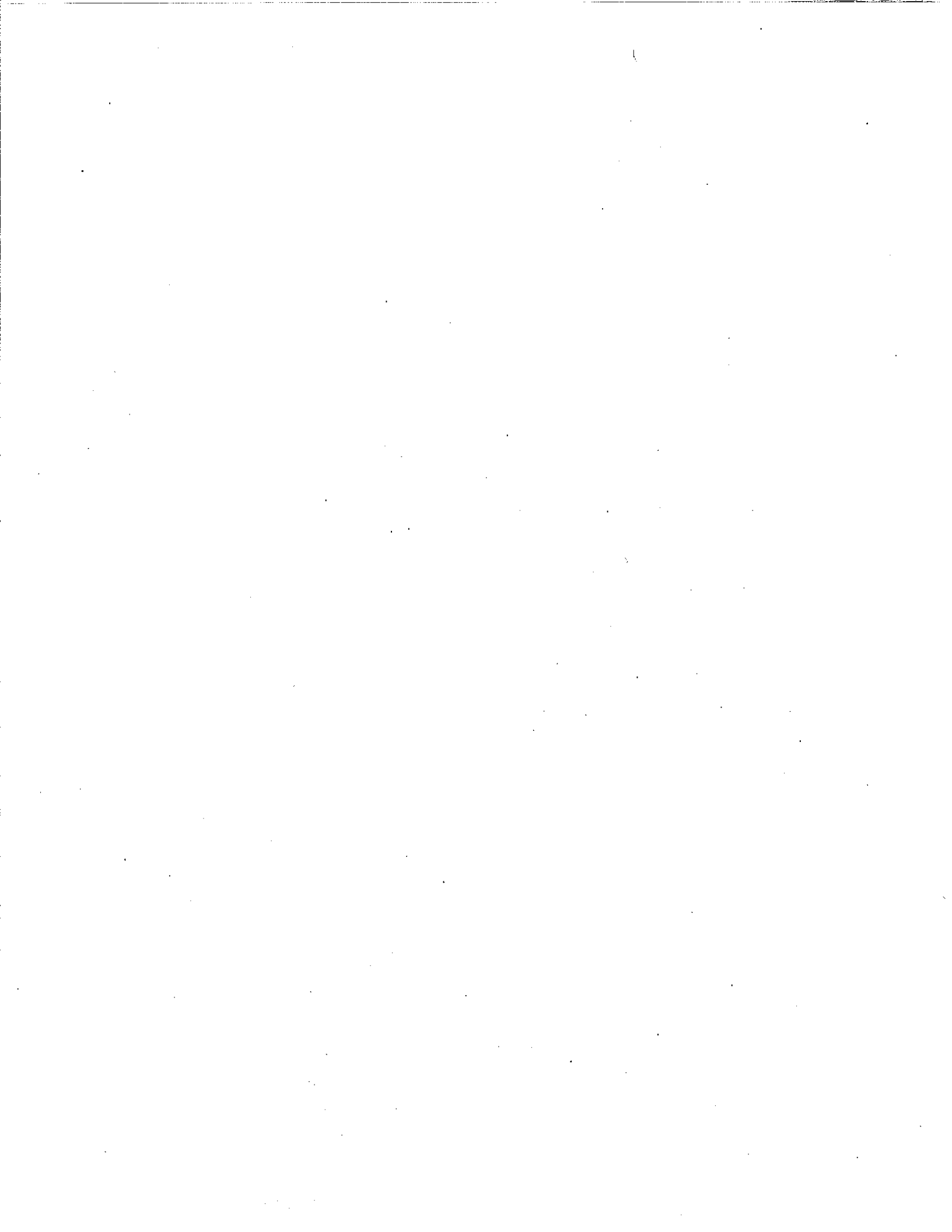
1. Central Maine Power Company shall own all Fiber Optic cable located within the "Power Space".
2. All fiber optic cable located in the supply space shall be installed and maintained so to be in complete compliance with the National Electrical Safety Code and all other applicable rules and regulations.
3. Fiber Optic Cable shall be attached in the Power Space using a stand off bracket which provides a minimum of 12" off set.
4. The supporting bracket shall be attached to the pole at the bottom of the Power Space with the lowest part of the bracket and any attached hardware or cable a minimum of 40" above the highest communications attachment.
5. Midspan separation between Fiber Optic cable attached in the Power Space and any conductors attached in Communication space shall not be less than 12 inches for all applicable conditions..
6. Fiber Optic cables located in the Power Space shall be All Dielectric Self-Supporting (ADSS). For a SINGLE span where the span length exceeds 250' and where the Single span length exceeds the average span of the entire line section a metallic wire may be used to support the ADSS. Any metallic or otherwise conductive support wire shall be effectively bonded to the power neutral.
7. The Fiber Optic cable shall have adequate strength and shall be tensioned such that NESC required clearance will be maintained under all required conditions. Guying shall be provided to support the cable maximum cable tension.
8. Where the power neutral is attached at the same pole position as the Fiber Optic cable, the power neutral and Fiber Optic cable should alternate the pole and standoff positions to avoid mid-span crossings of the wire. Where a mid-span crossing of the neutral and fiber optic cable can not be avoided the fiber optic cable and neutral may be coupled at a single point.
9. At dead-end structures where the power neutral and fiber optic cable must terminate on the pole, the power neutral shall be attached a minimum of 12" above the fiber optic cable attachment.
10. Each cable shall be assigned a unique number. Each cable shall be labeled with the assigned number at each attached pole so as to provide positive identification for the life of the cable. The cable label shall be an ACP International. "millennium" stainless steel marker or equivalent.

	DESIGNED	REVISED	REVISED
	CS		
	REC		
	DATE	08/31/01	

DESIGNED	KBP	ORIGINAL	
DRAWN	REC		
DATE	05/22/00		

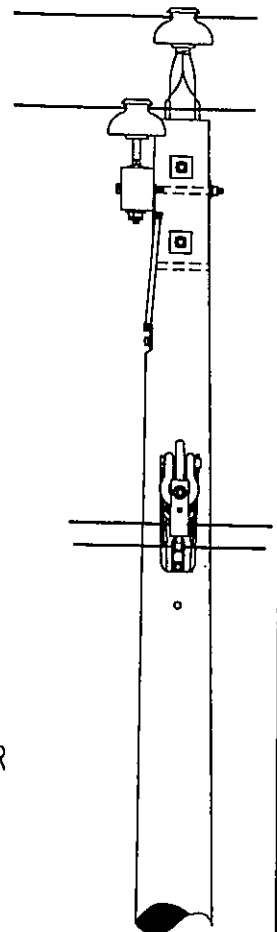
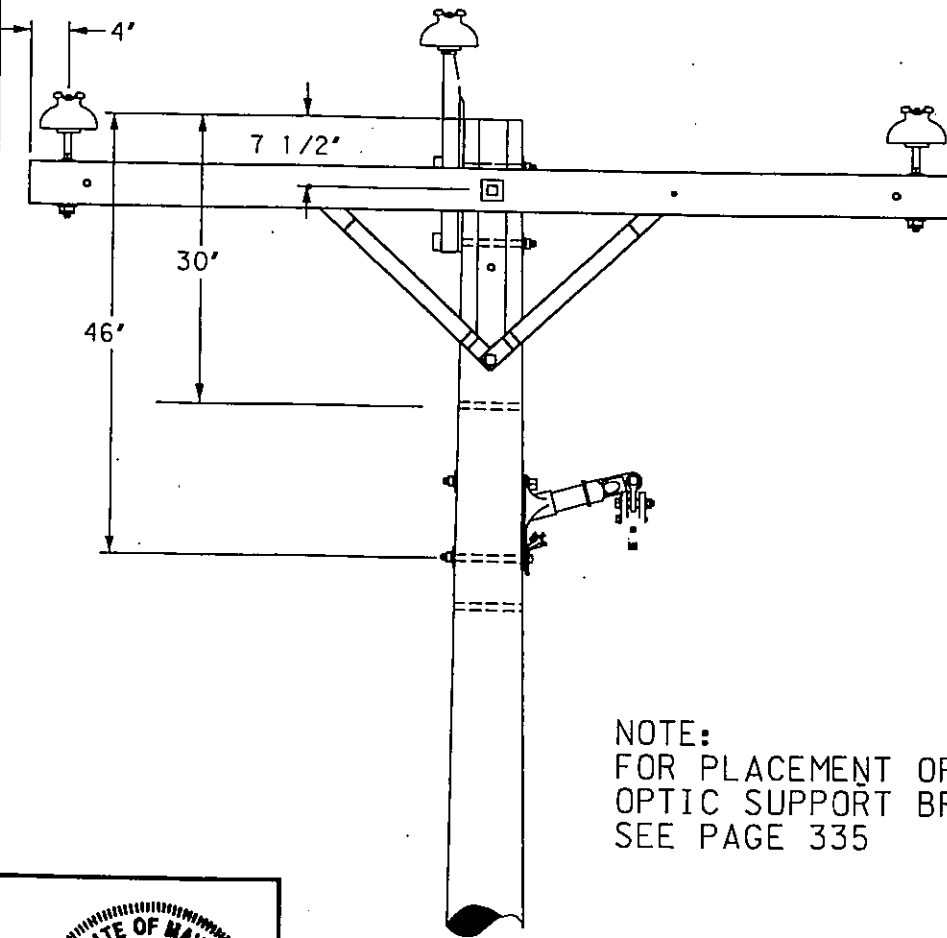
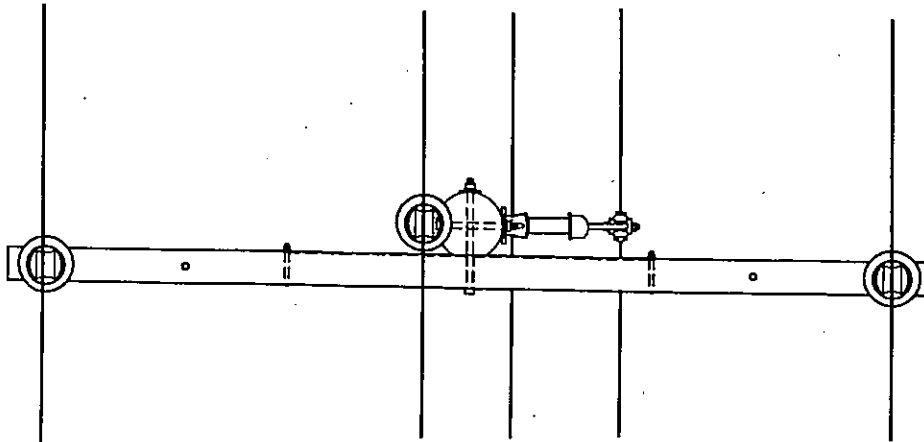
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





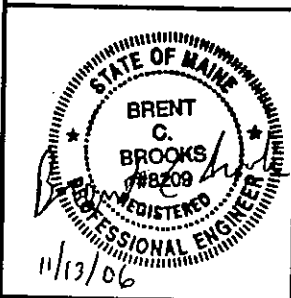
THESE DETAILS TO SHOW
POSITION OF FIBER ONLY

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/31/01	01/19/06	



DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	03/13/00

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





MACRO

DESCRIPTION
FIBER POSITION ON 3 PH DOUBLE ARM
UP TO 25FT. CORNER

PAGE
335-2B

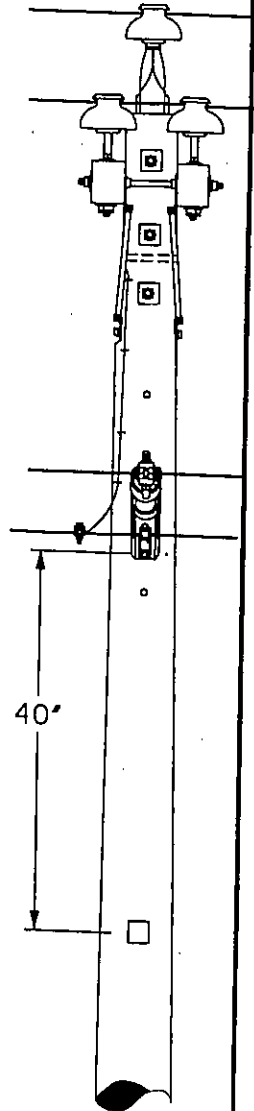
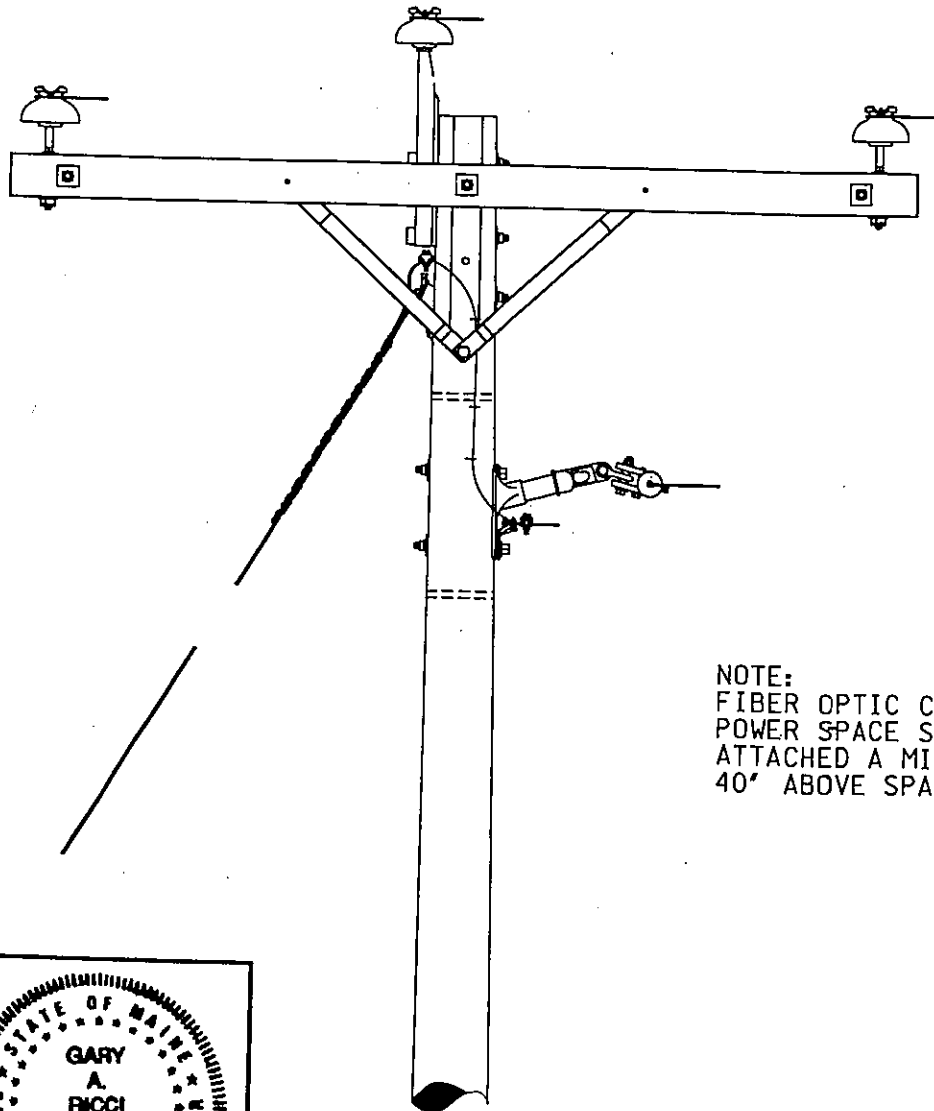
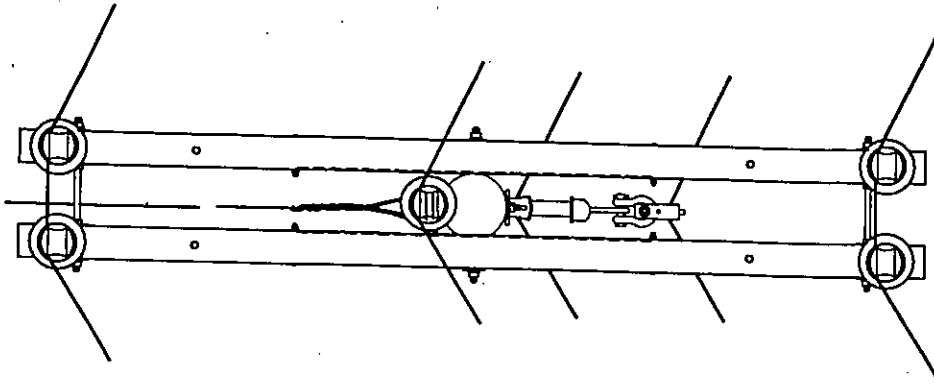
THESE DETAILS TO SHOW
POSITION OF FIBER ONLY

DESIGNED	CS	REVIS	REVIS	REVIS
DRAWN	REC	REC	REC	REC
DATE	08/31/01	01/31/06		



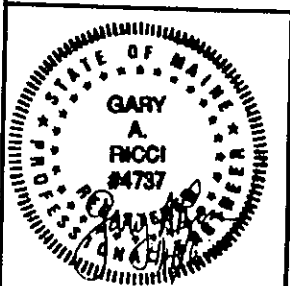
DESIGNED	CS	REVIS	REVIS
DRAWN	REC	REC	REC
DATE	03/13/00		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM OF
40" ABOVE SPACE TAG

40"



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

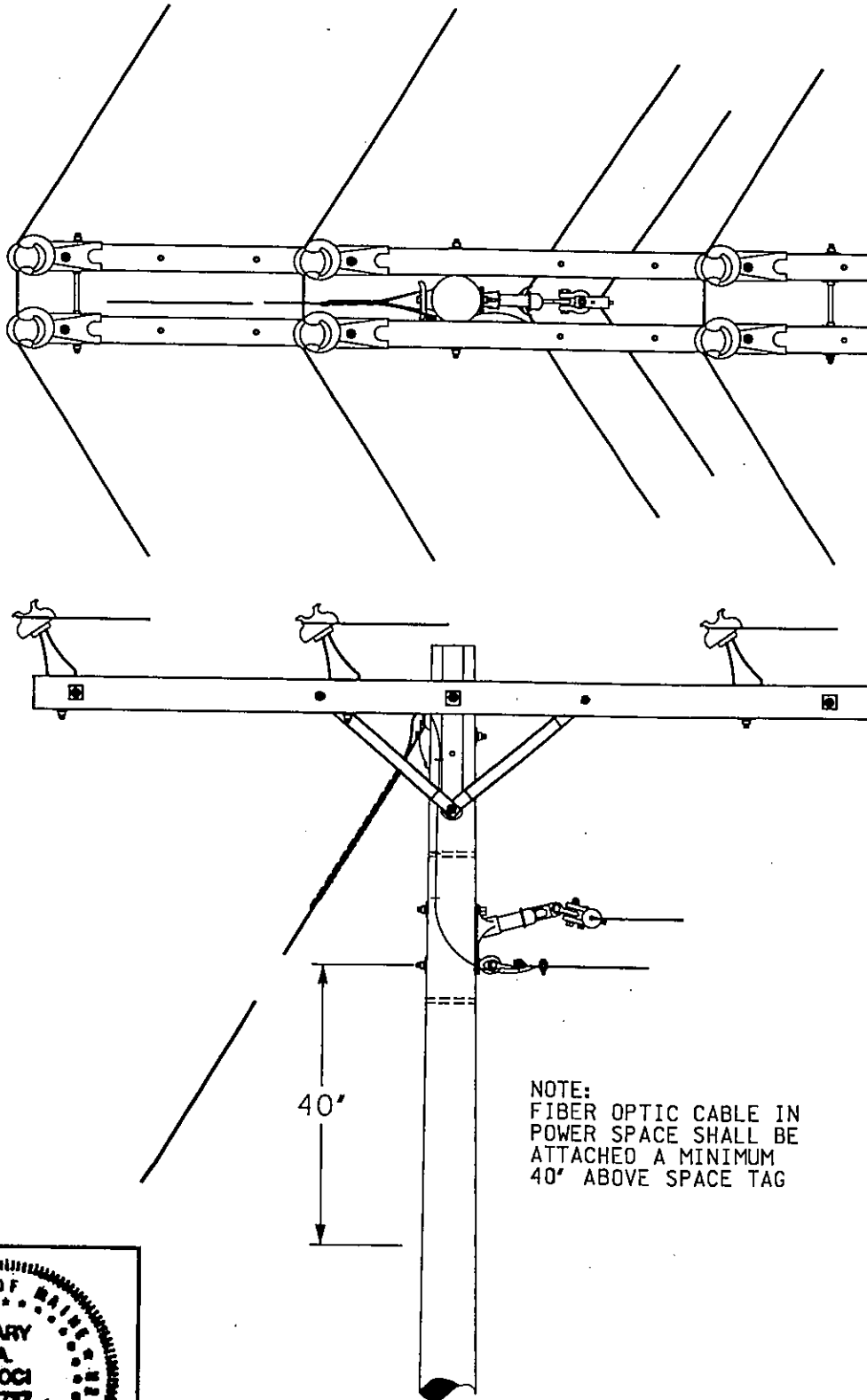


MACRO

DESCRIPTION
FIBER POSITION ON 3 PH DOUBLE XARM ANGLE PIN
TO 50 FT. CORNER

PAGE
335-3B

THESE DETAILS TO SHOW
POSITION OF FIBER ONLY



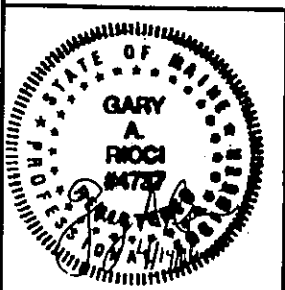
NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40' ABOVE SPACE TAG

40'

DESIGNED	CS	REVIS	REVIS	REVIS
DRAWN	REC	REC	REC	REC
DATE	08/31/01	02/07/06		

DESIGNED	CS	REVIS	REVIS
DRAWN	REC	REC	REC
DATE	03/15/00		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



MACRO

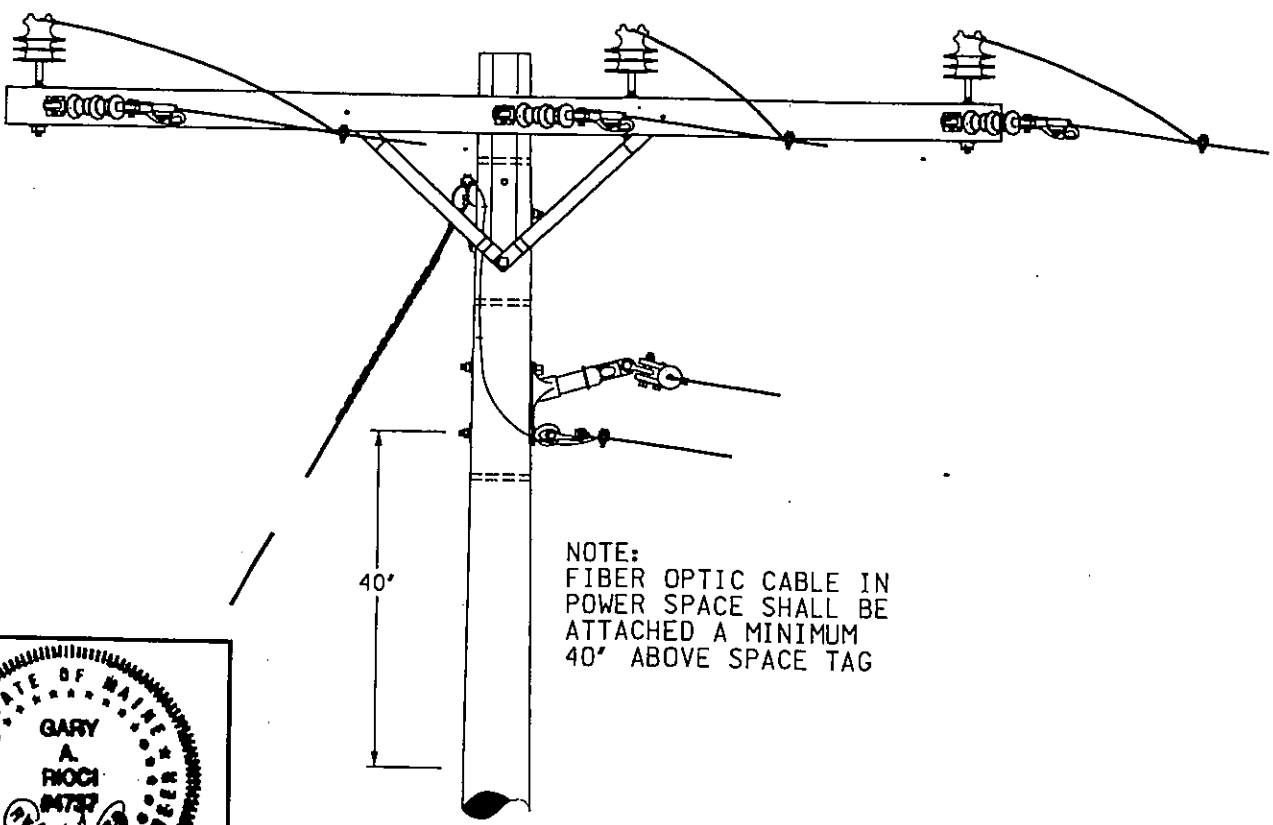
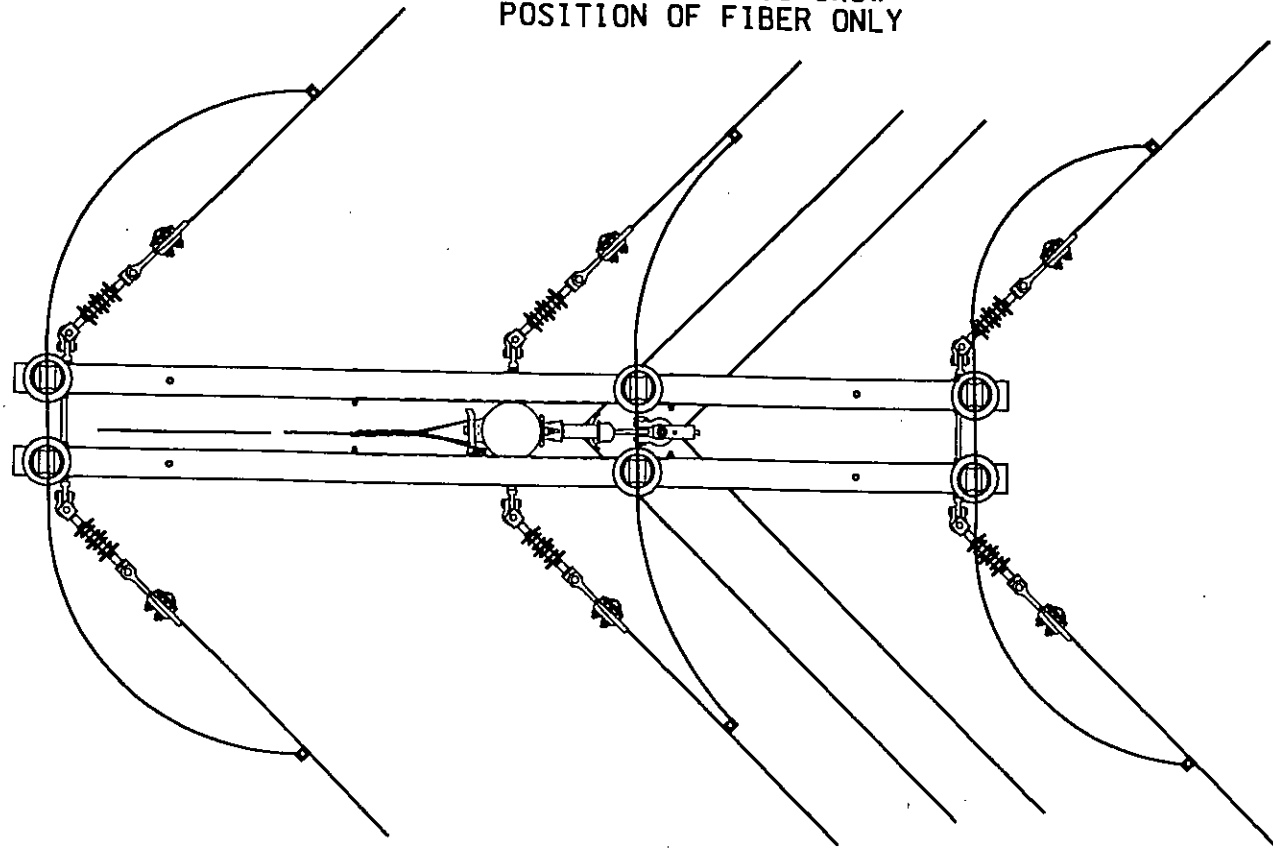
DESCRIPTION

PAGE

FIBER POSITION ON 3 PH DOUBLE DEADEND ANGLE

335-4B

THESE DETAILS TO SHOW POSITION OF FIBER ONLY



NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40' ABOVE SPACE TAG

40'

DESIGNED	REVISOR	REVISION	DATE
CS	CS		08/31/01
REC	REC		02/03/06

DESIGNED	ORIGINAL
CS	CS
REC	REC
DATE	DATE
03/15/00	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

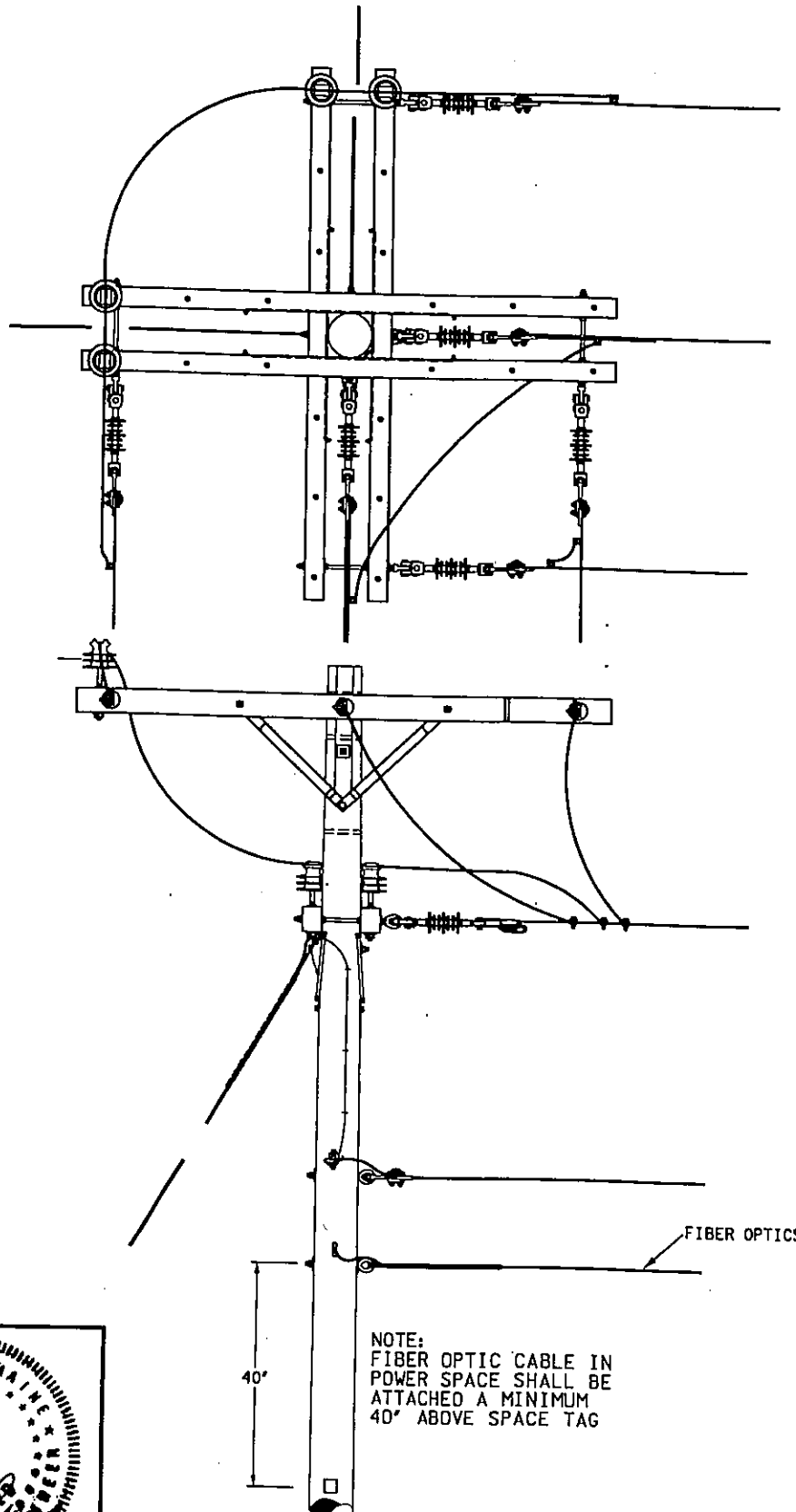


MACRO

DESCRIPTION
FIBER POSITION ON 3 PH DOUBLE BUCKARMS
OVER 50 FT CORNER

PAGE
335-5B

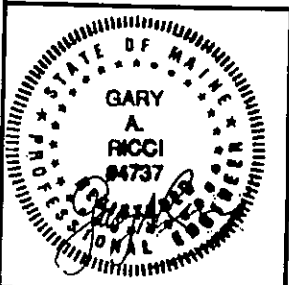
THESE DETAILS TO SHOW
POSITION OF FIBER ONLY



DESIGNED	CS	REVIS	CS	REVISED	REVISED
DRAWN	REC	REC	REC		
DATE	08/31/01			01/31/06	

DESIGNED	CS	ORIGINAL
DRAWN	REC	
DATE	03/15/00	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



MACRO

DESCRIPTION
FIBER POSITION ON 3 PH FIBERGLASS
ALLEY ARM STRUCTURE

PAGE
335-6B

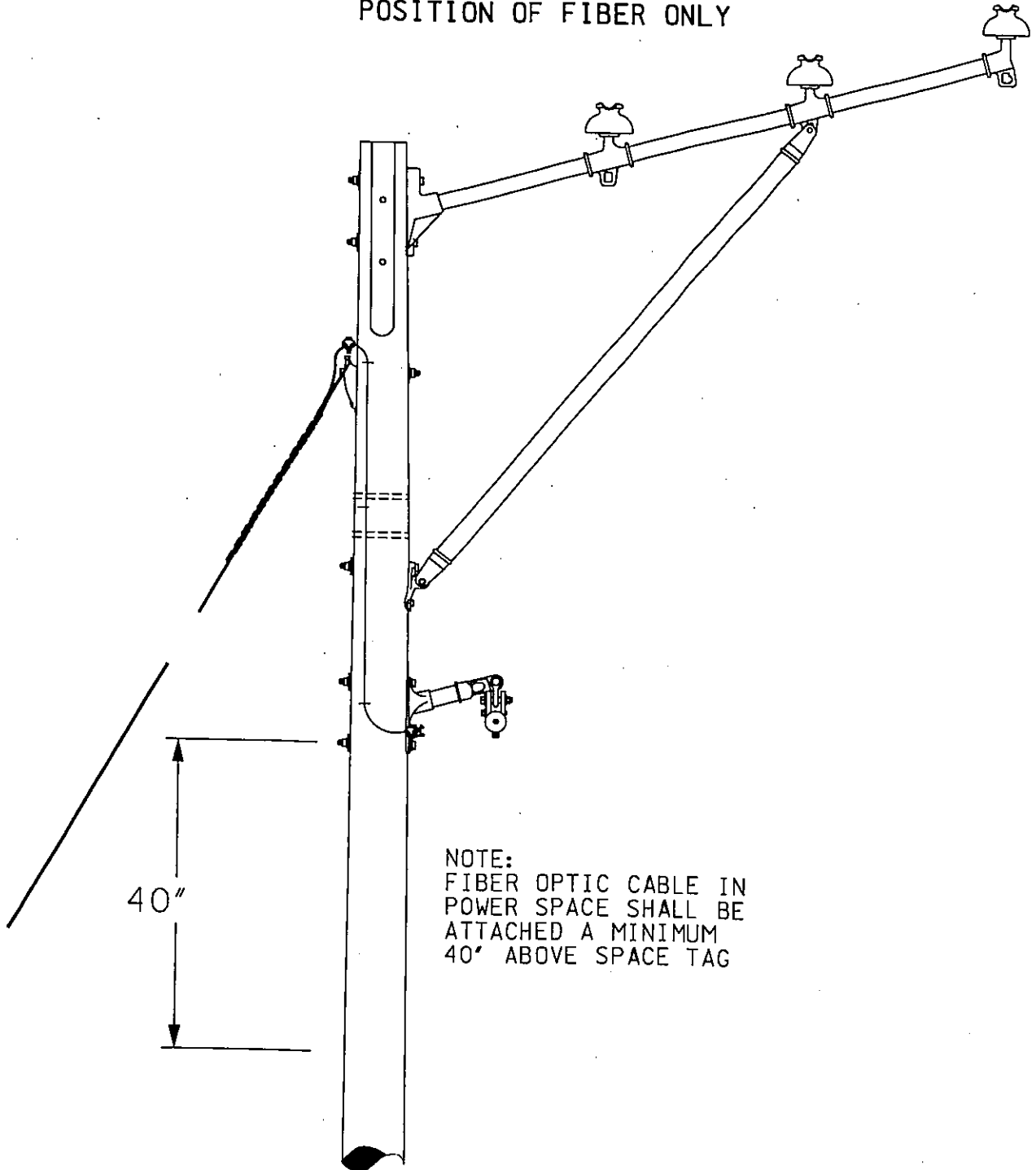
THESE DETAILS TO SHOW
POSITION OF FIBER ONLY

DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	
DATE	REC	REC	
	08/31/01	02/03/06	



DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	03/29/00

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

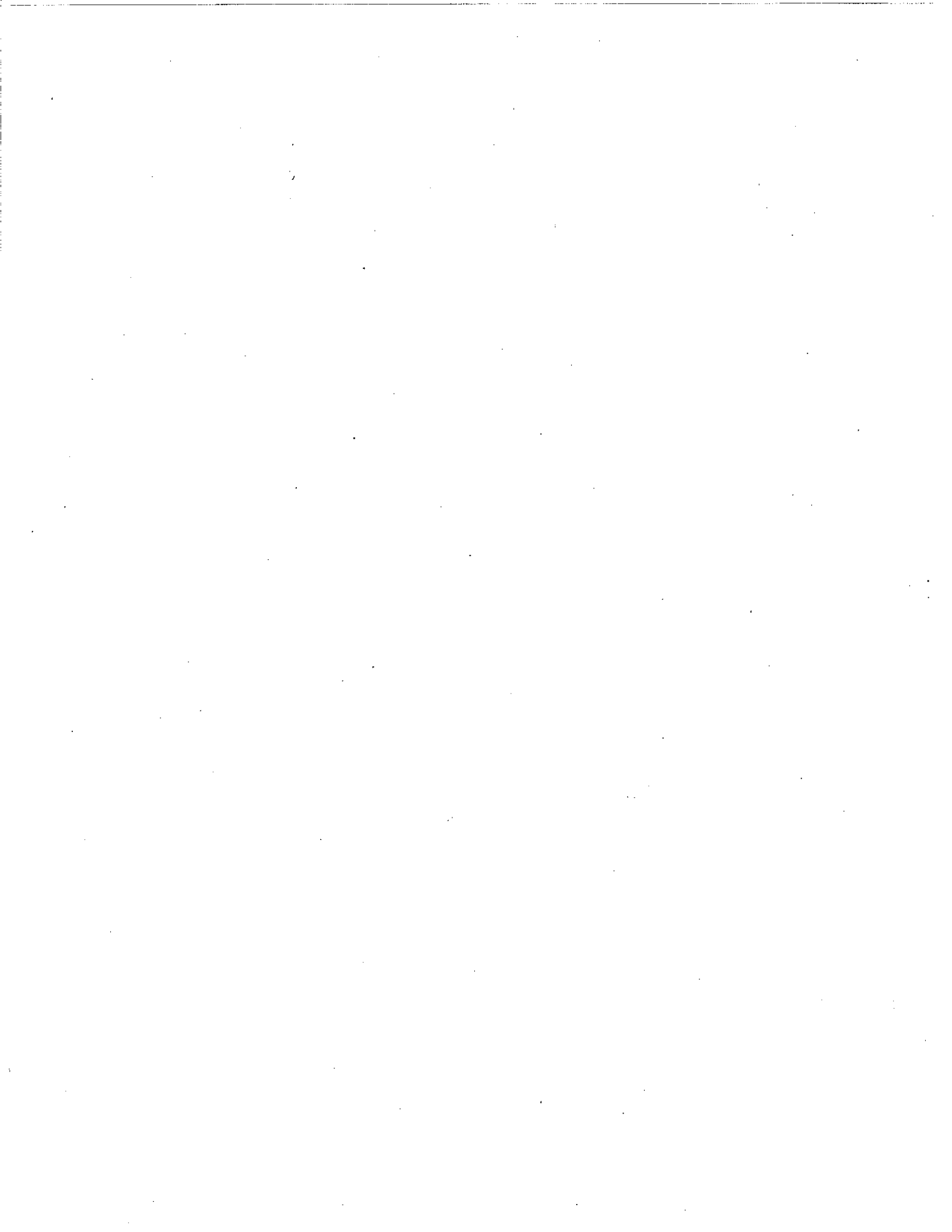


NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40" ABOVE SPACE TAG



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

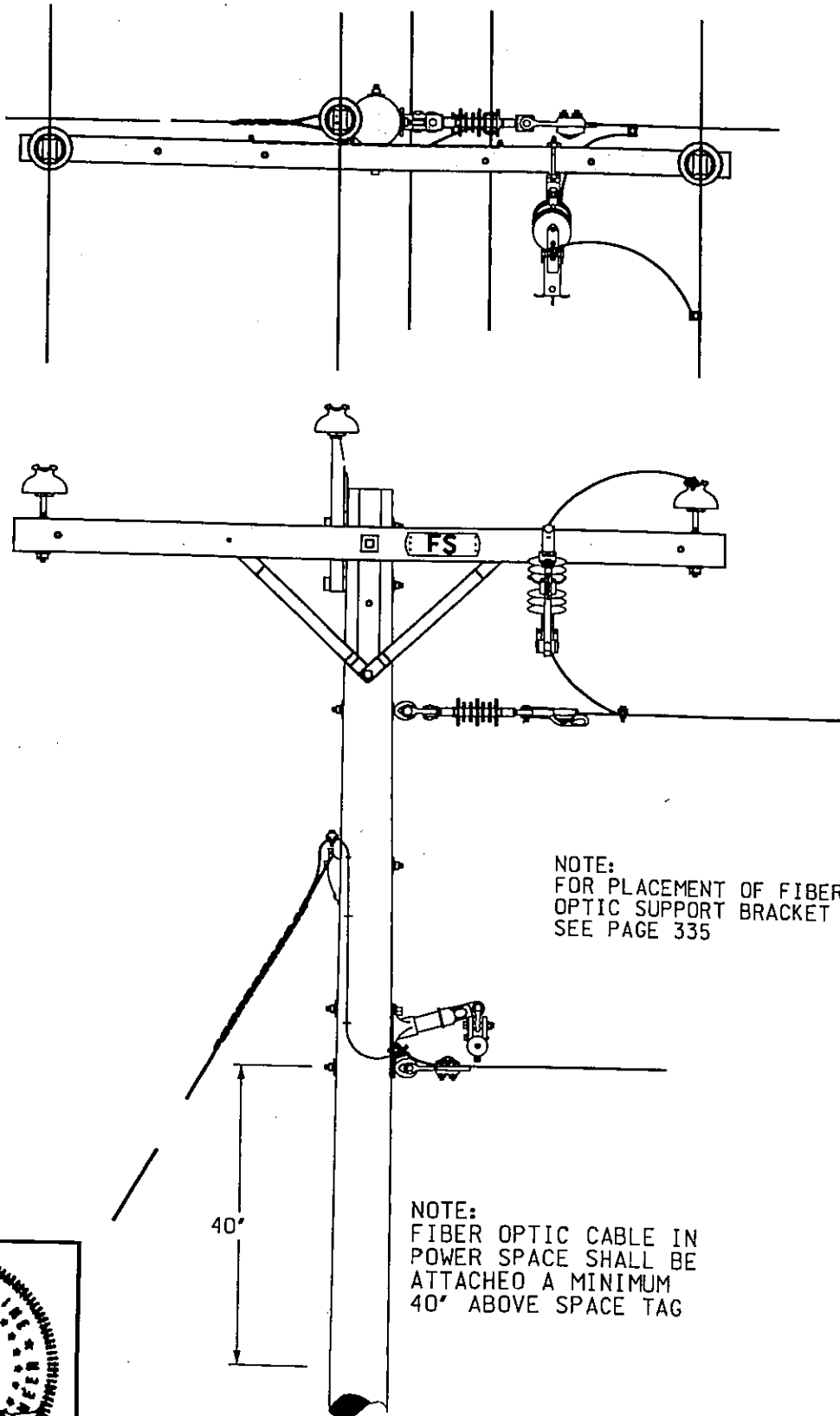


MACRO

DESCRIPTION
FIBER POSITION ON 1 PH TAP FROM
3 PH XARM STRUCTURE

PAGE
335-7B

THESE DETAILS TO SHOW
POSITION OF FIBER ONLY



NOTE:
FOR PLACEMENT OF FIBER
OPTIC SUPPORT BRACKET
SEE PAGE 335

NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40" ABOVE SPACE TAG

DESIGNED	CS	REVISER	CS
DRAWN	REC	REVISER	REC
DATE	08/31/01	DATE	02/02/06

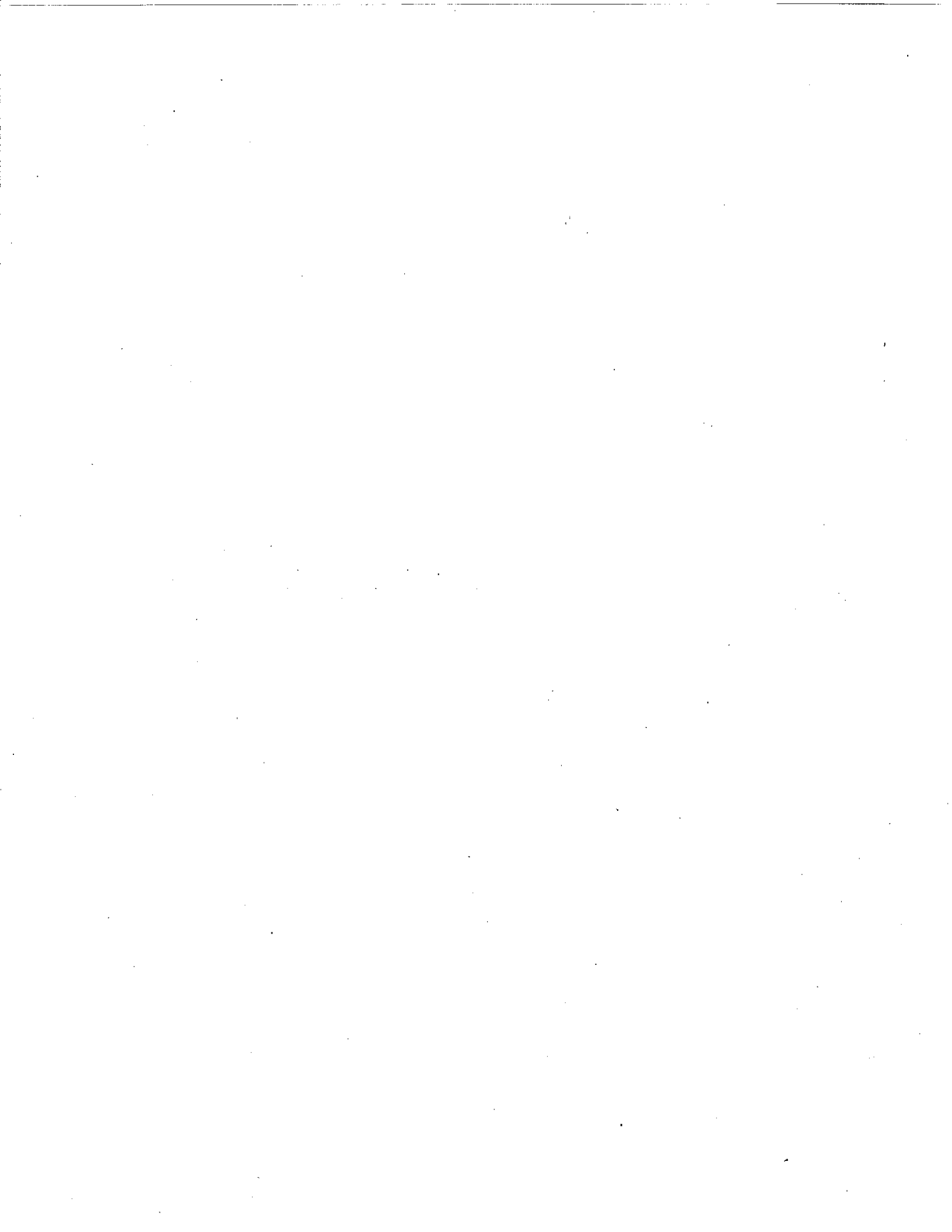
DESIGNED	CS
DRAWN	REC
DATE	06/08/00

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

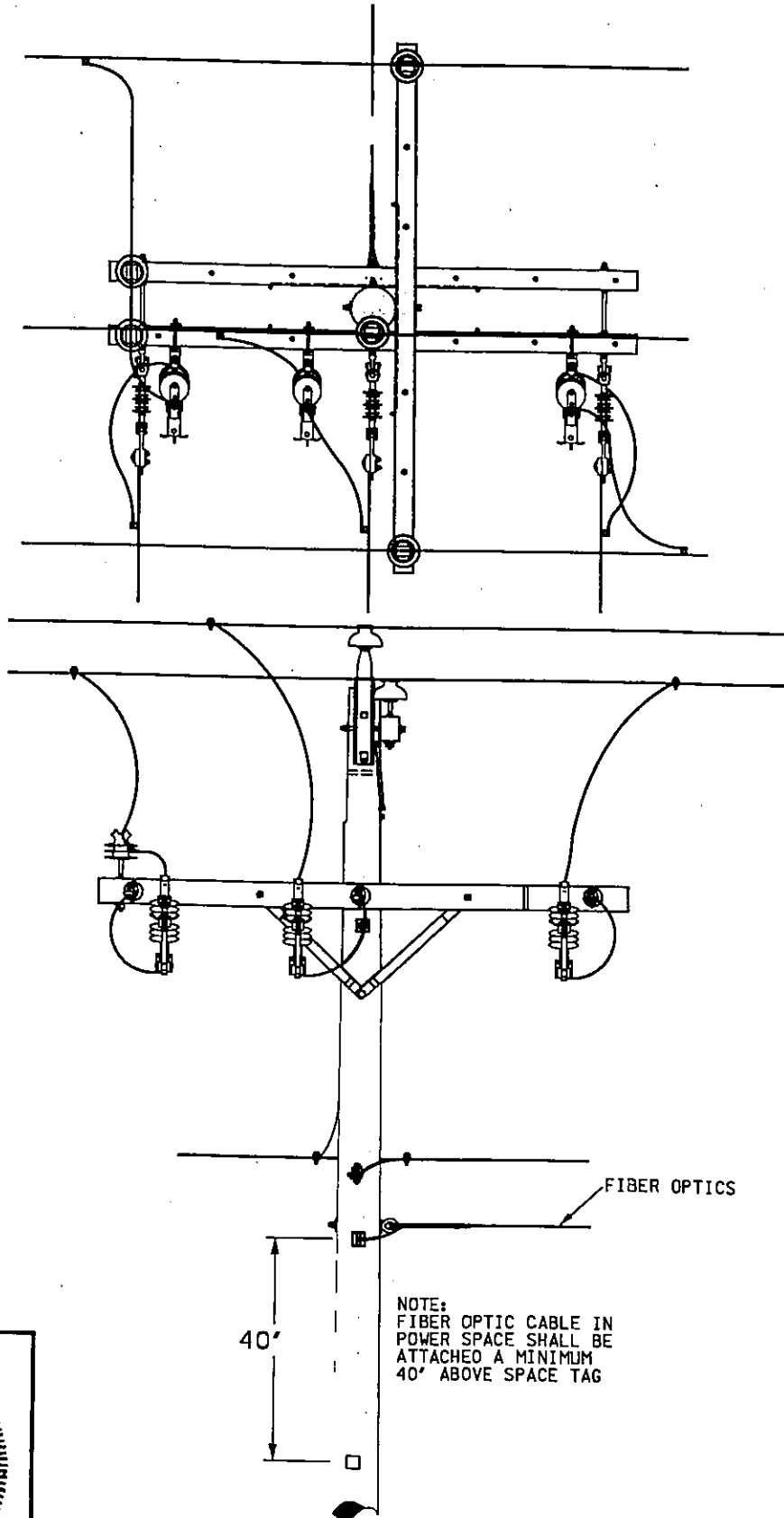


CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



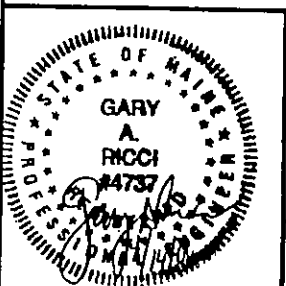
THESE DETAILS TO SHOW
POSITION OF FIBER ONLY



DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/31/01	02/08/06	

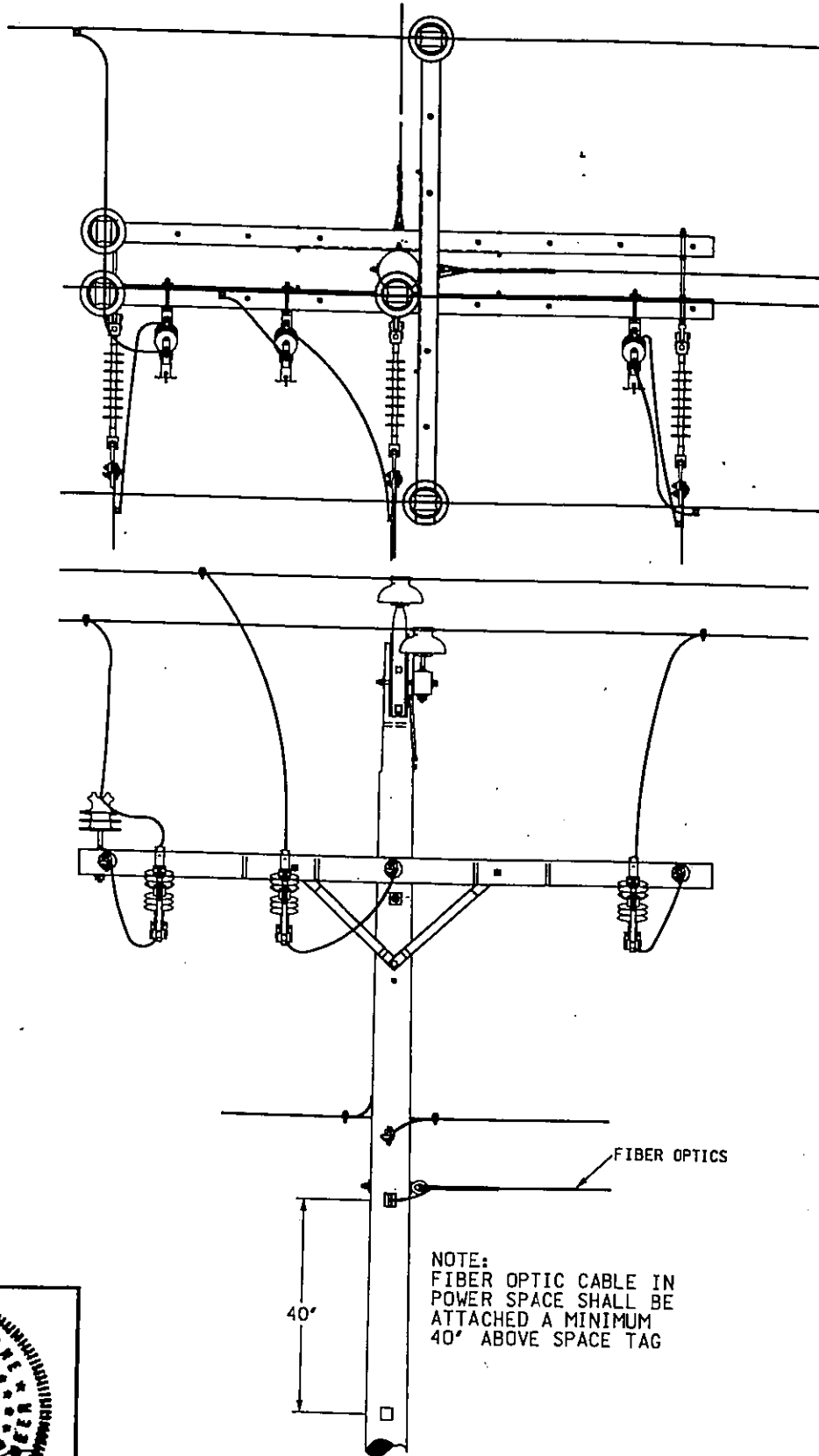
DESIGNED	ORIGINAL
DRAWN	KBP
DATE	REC
	06/08/00

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





THESE DETAILS TO SHOW
POSITION OF FIBER ONLY

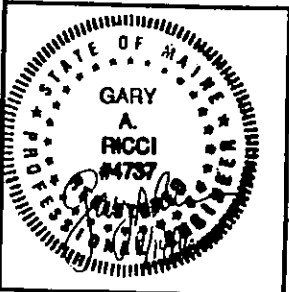


DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	0/D3/01	02/08/06	



DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	06/08/00

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40' ABOVE SPACE TAG



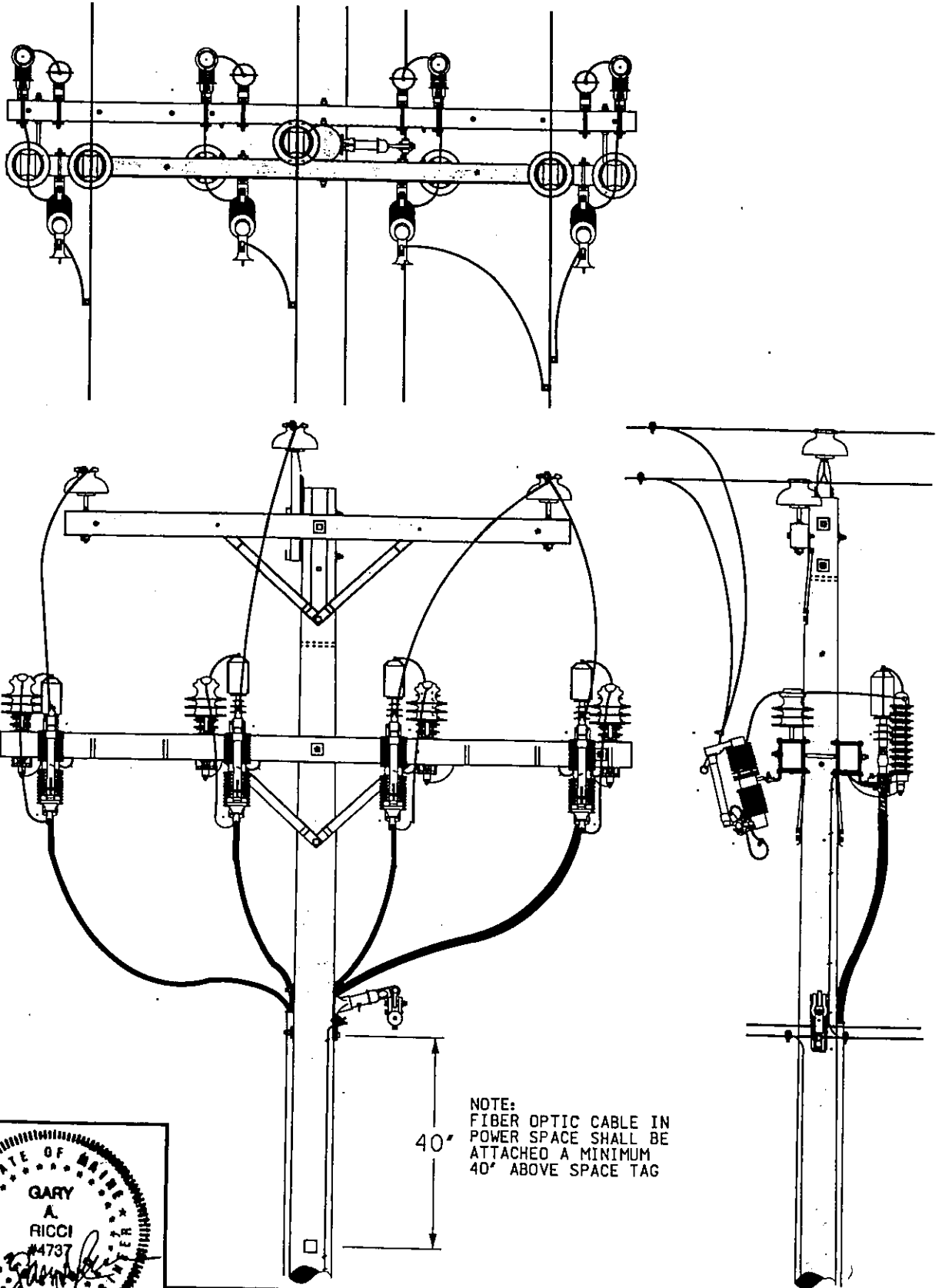


MACRO

DESCRIPTION
FIBER POSITION ON 3 PH RISER 4 WIRE 34KV

PAGE
336-1B

THESE DETAILS TO SHOW
POSITION OF FIBER ONLY



NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40' ABOVE SPACE TAG

DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS	REC	08/31/01
DATE	CS	REC	02/24/06



DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS	REC	06/08/00
DATE	CS	REC	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



MACRO

DESCRIPTION
FIBER POSITION ON 1 PH XFMR 10 TO 50 KVA
ON 3 PH SX 34KV

PAGE
337-1B

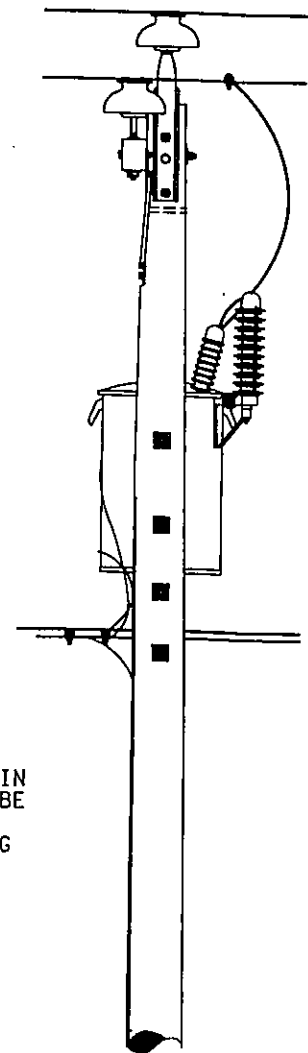
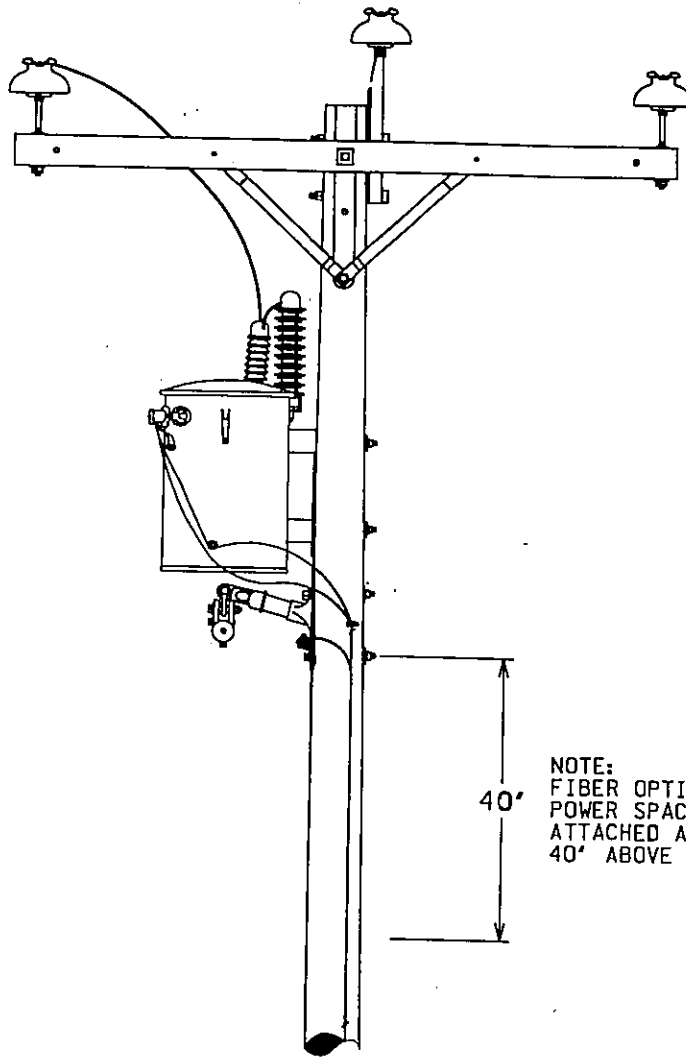
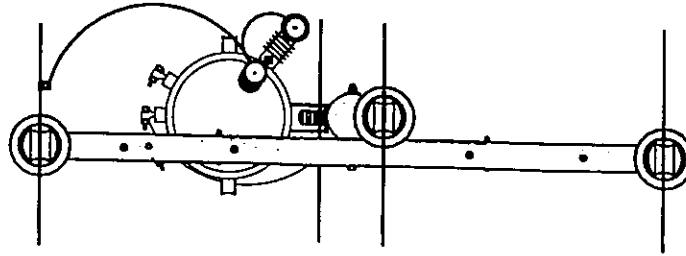
THESE DETAILS TO SHOW
POSITION OF FIBER ONLY

DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/31/01	02/03/06	



DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	03/28/00

THIS DRAWING SHALL
BE REVISED IN THE
CADD SYSTEM ONLY

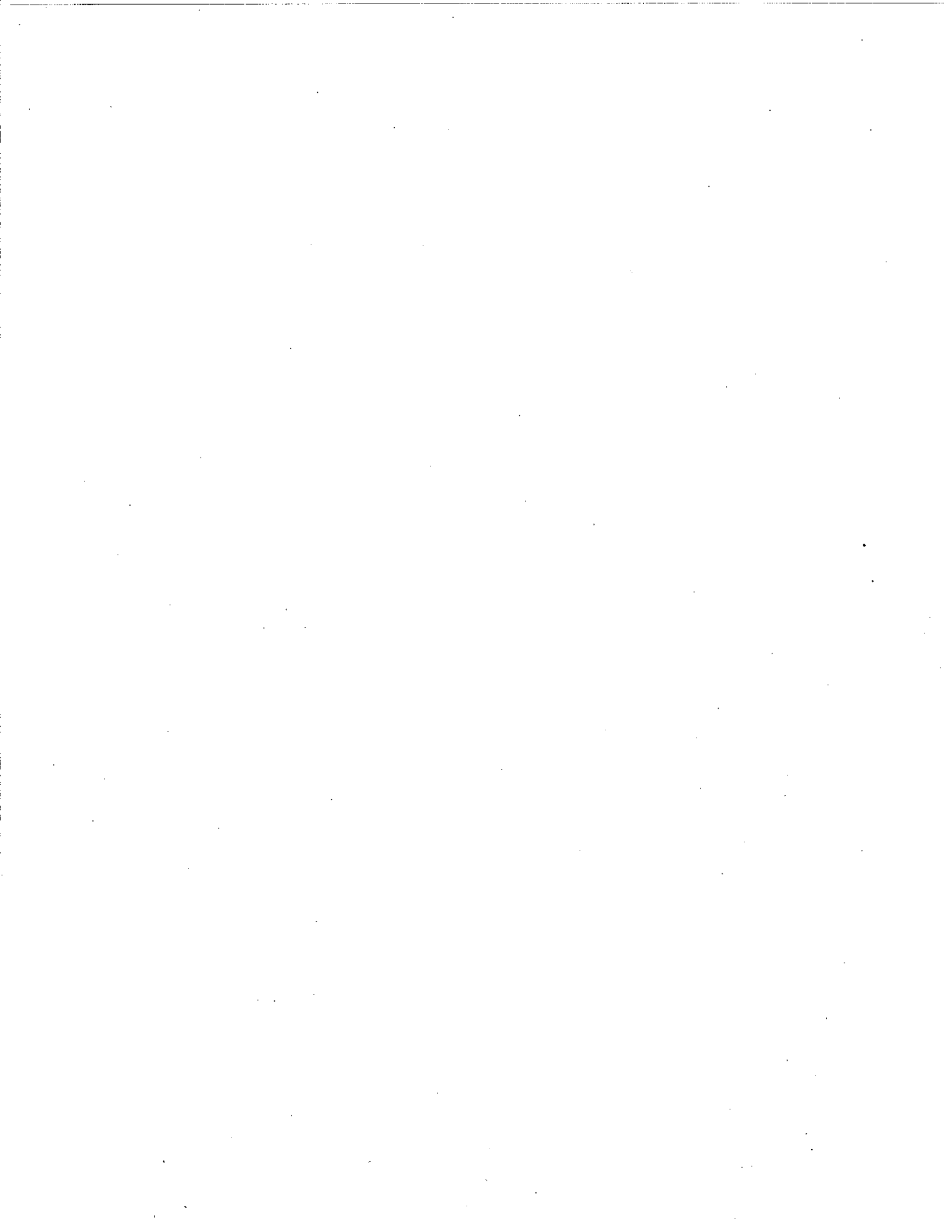


NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40' ABOVE SPACE TAG



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



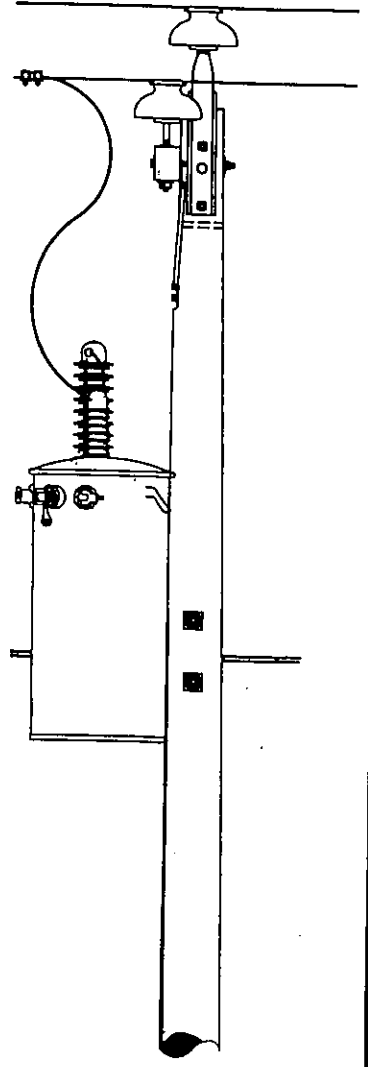
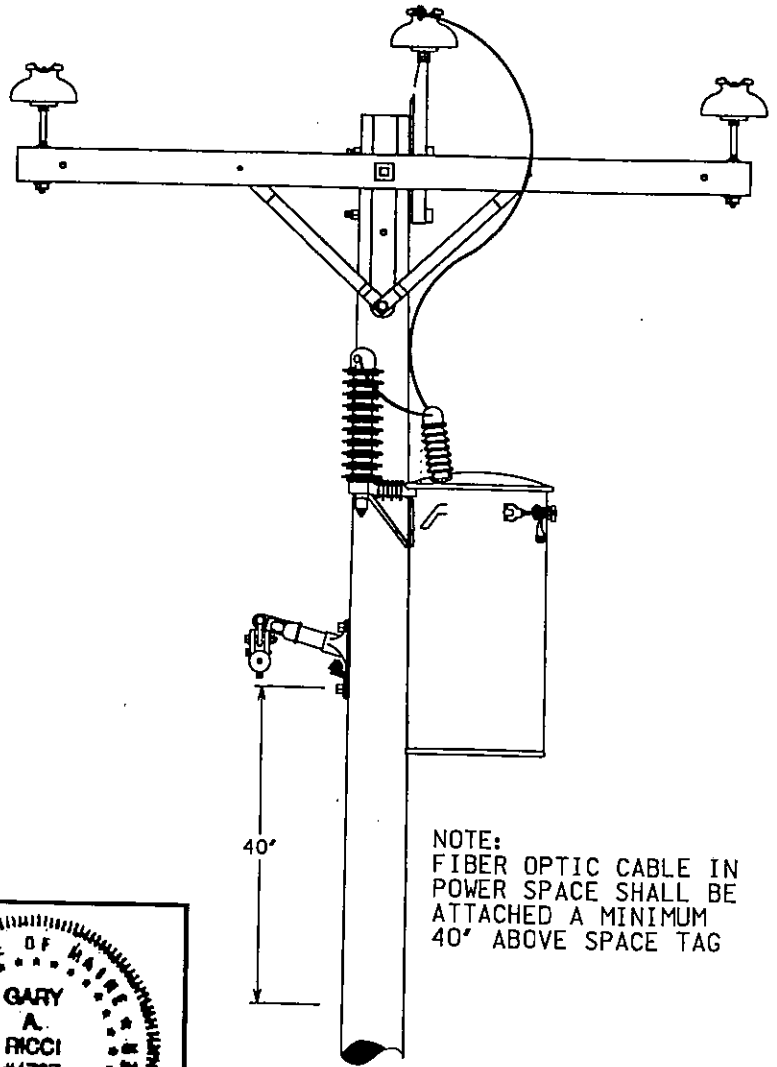
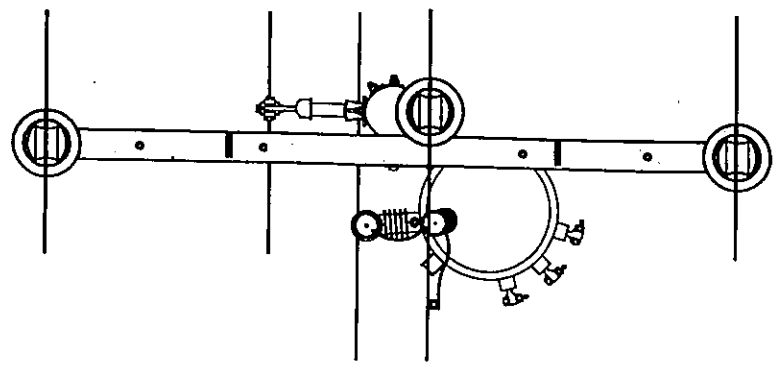
MACRO

DESCRIPTION
FIBER POSITION ON 1 PH XFMR 75-100KVA
ON 3 PH SX 34KV

PAGE
337-2B

THESE DETAILS TO SHOW
POSITION OF FIBER ONLY

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/31/01	02/03/06	

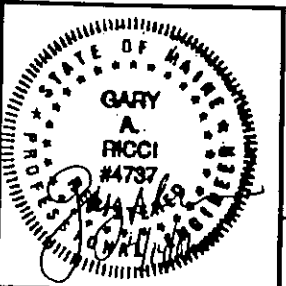


NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40' ABOVE SPACE TAG

40'

DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	03/28/00

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



MACRO

DESCRIPTION

FIBER POSITION ON 3PH TO 167KVA CLUSTER HT ON SX 34KV

PAGE

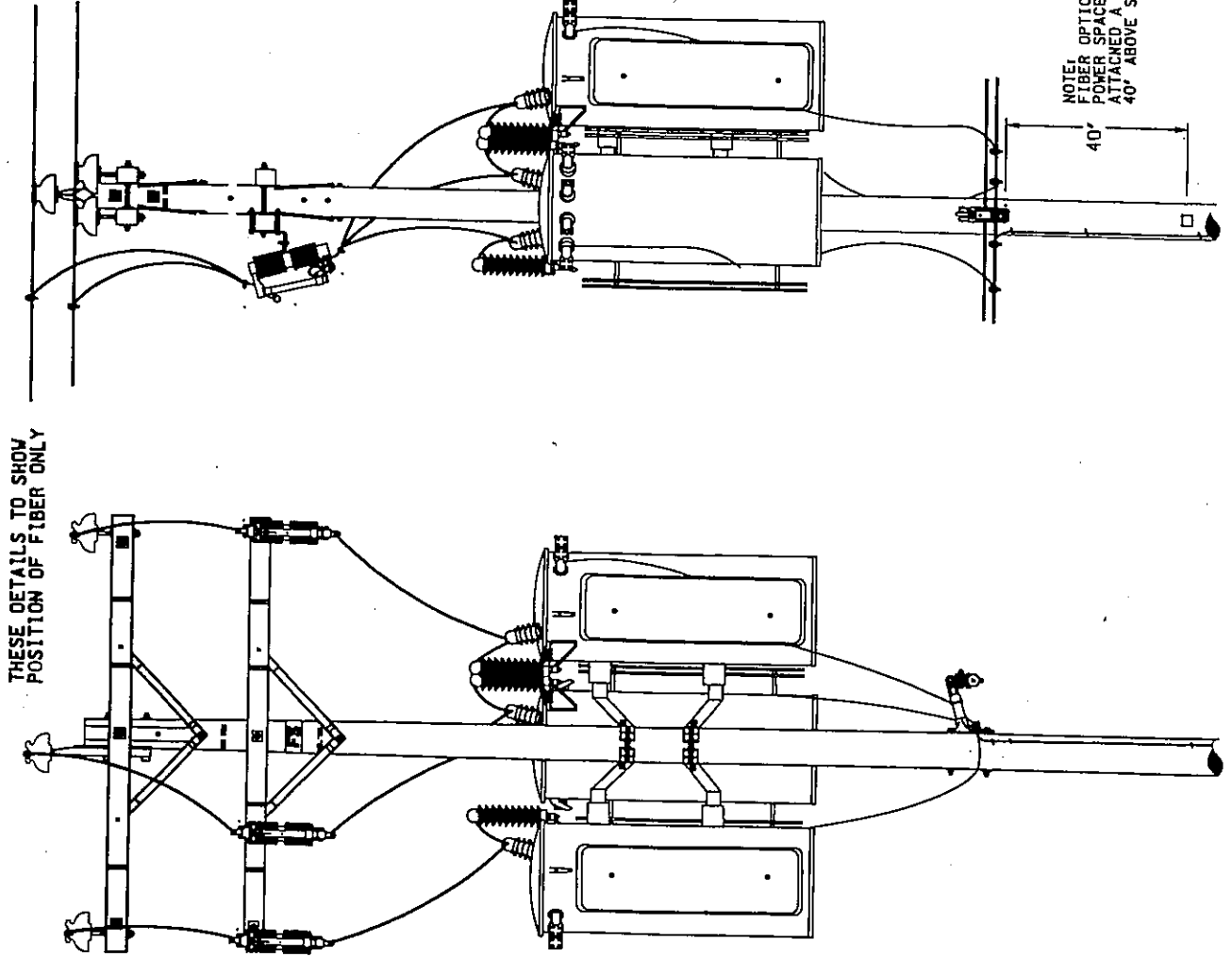
337-3B

DESIGNED	CS	REVIS	REVIS	REVIS
DRAWN	REC	REC	REC	REC
DATE	08/31/01	02/09/06		

DESIGNED	CS	ORIGINAL
DRAWN	REC	
DATE	06/08/00	



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



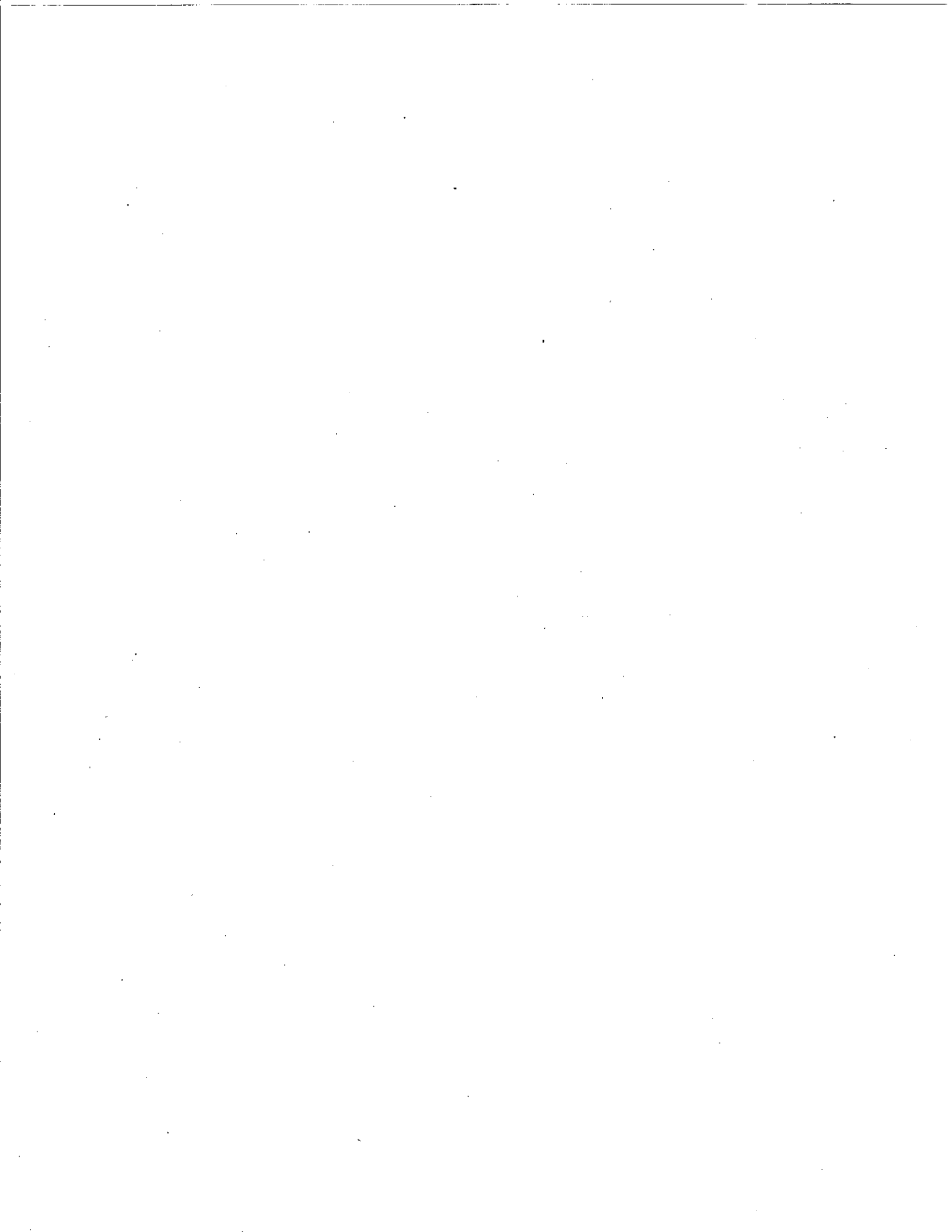
THESE DETAILS TO SHOW POSITION OF FIBER ONLY

NOTE: OPTIC CABLE IN FIBER SPACE SHALL BE ATTACHED A MINIMUM 40' ABOVE SPACE TAG



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS



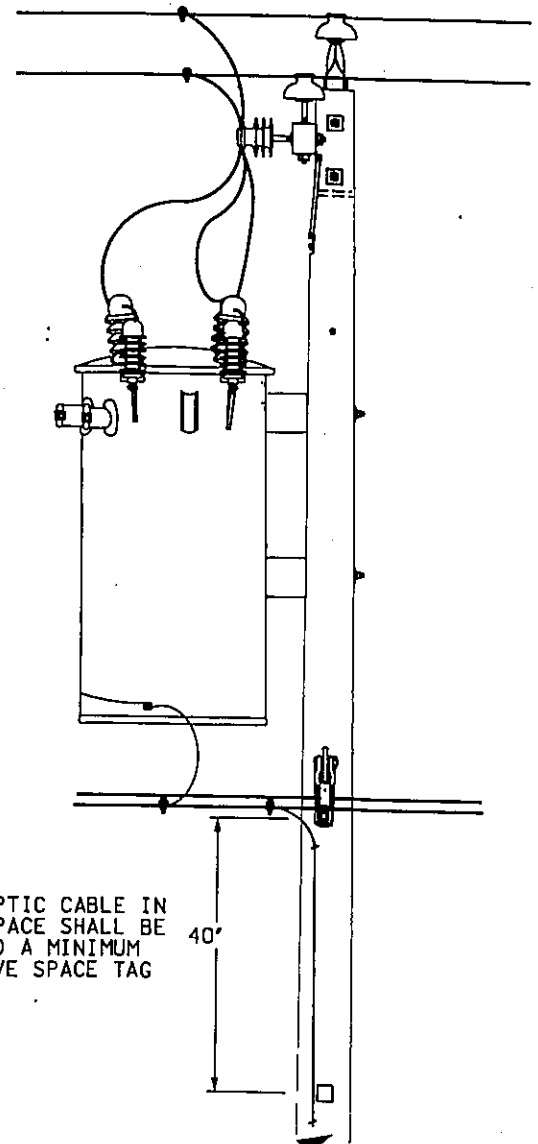
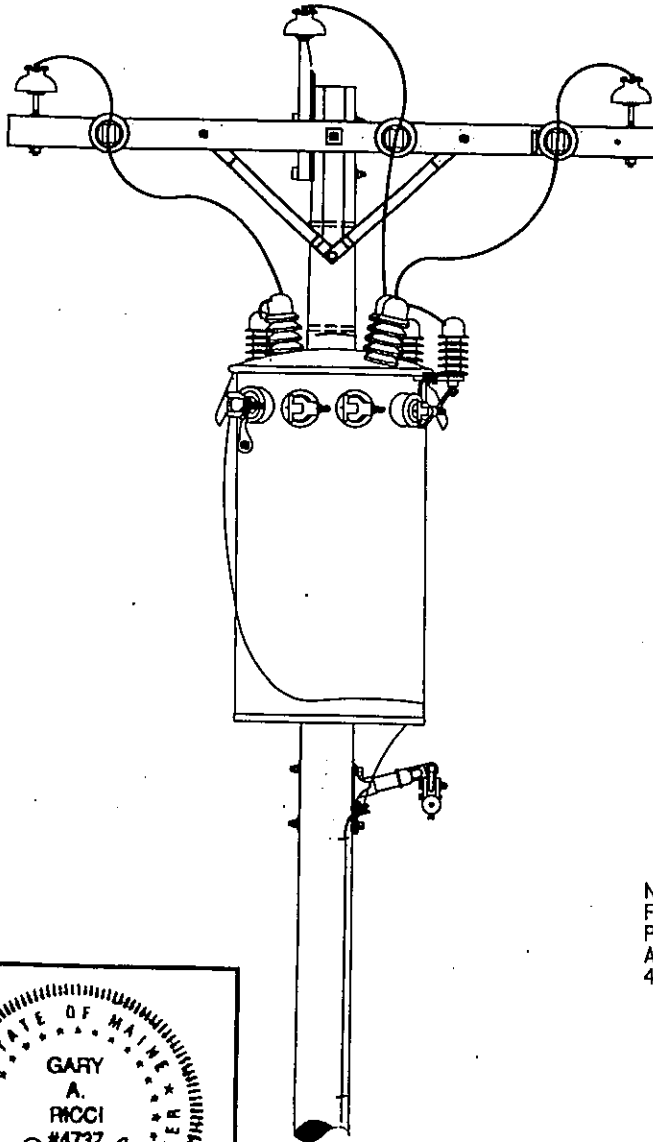
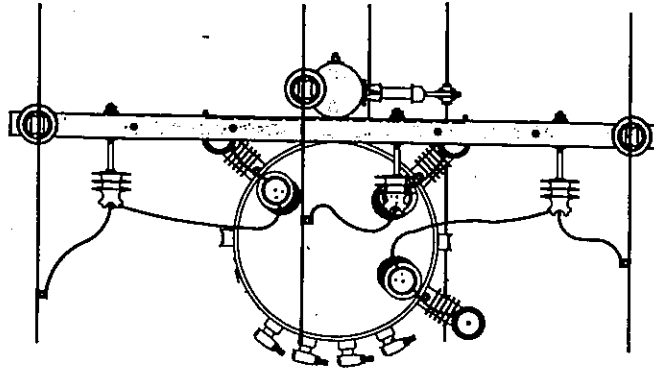
MACRO

DESCRIPTION
FIBER POSITION ON 3 PH XFMR UNIT PROT
ON SX STRUCTURE 12KV

PAGE
337-4B

THESE DETAILS TO SHOW
POSITION OF FIBER ONLY

DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/31/01	02/08/06	

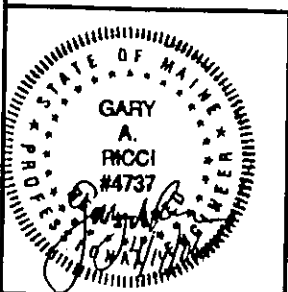


NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40' ABOVE SPACE TAG



DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	03/29/00

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

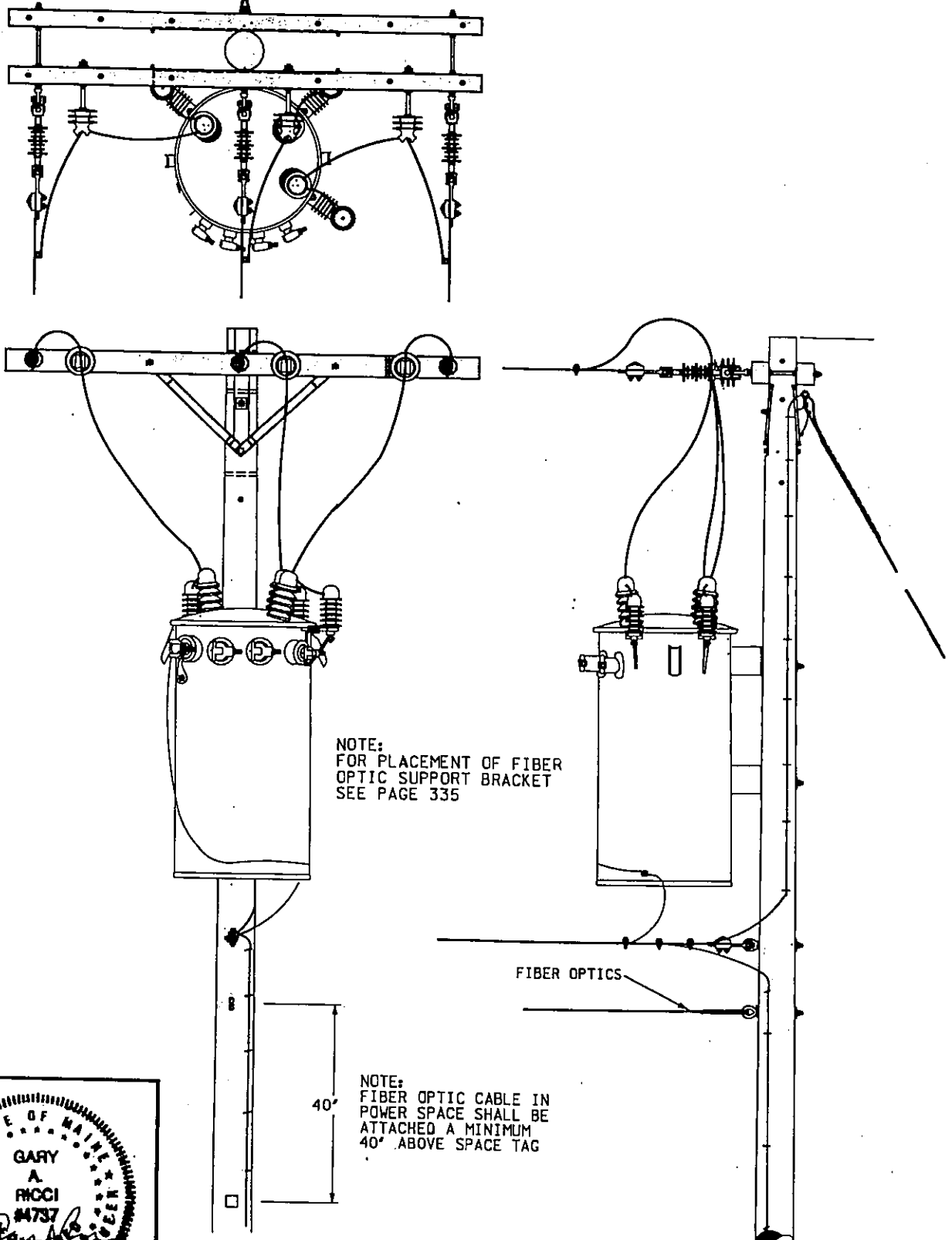


CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



THESE DETAILS TO SHOW
POSITION OF FIBER ONLY



NOTE:
FOR PLACEMENT OF FIBER
OPTIC SUPPORT BRACKET
SEE PAGE 335

FIBER OPTICS

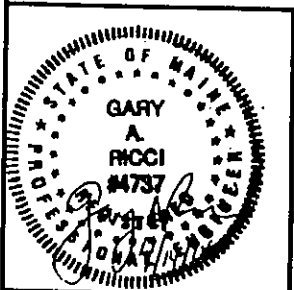
NOTE:
FIBER OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40' ABOVE SPACE TAG

40'

DESIGNED	REVISOR	REVISION	DATE
CS	CS		
DRAWN	REC	REC	
DATE	10/03/01	02/08/06	

DESIGNED	ORIGINAL
CS	CS
DRAWN	REC
DATE	03/20/00

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





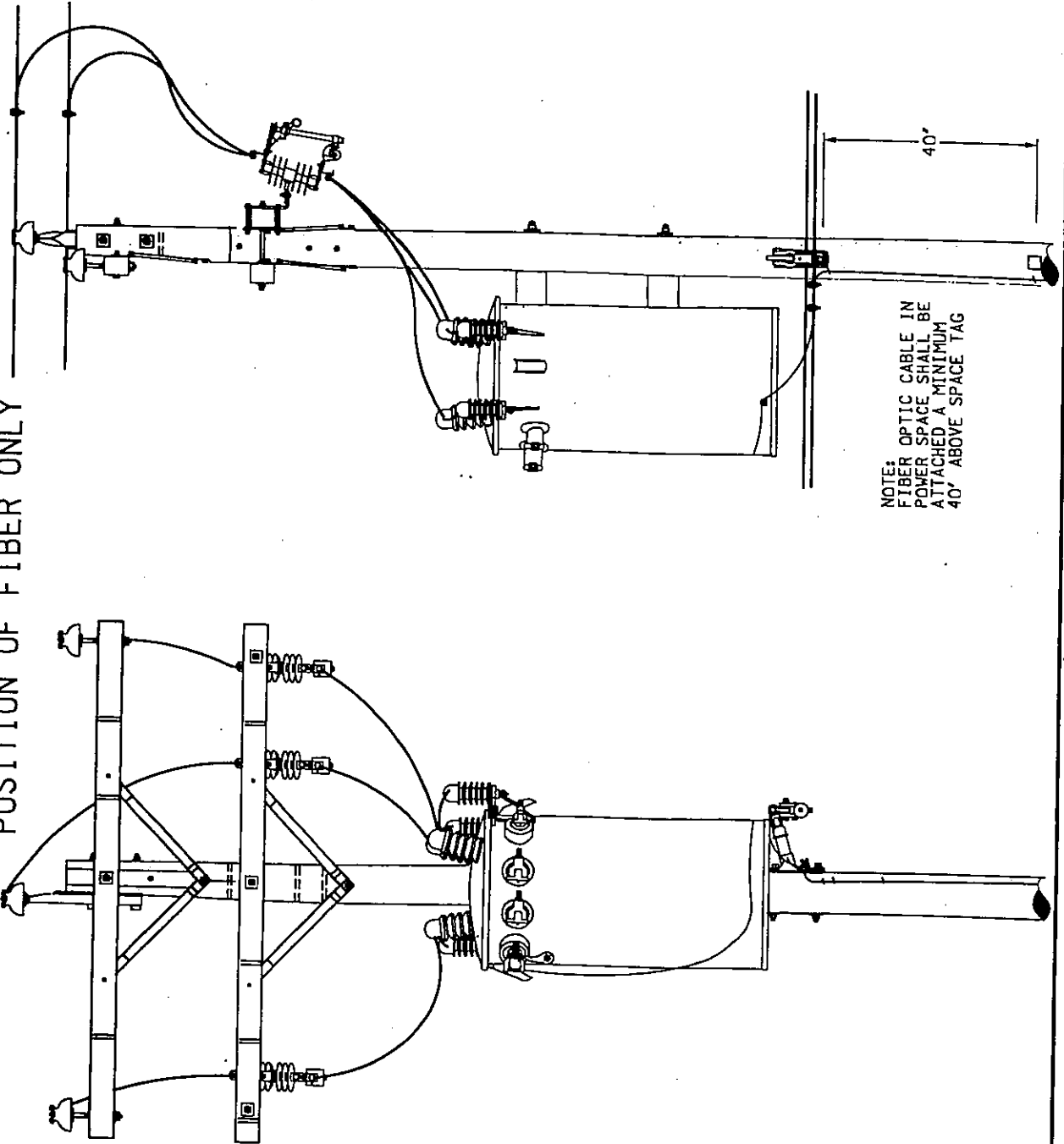
MACRO

DESCRIPTION
FIBER POSITION ON 3PH XFMR UNIT
CONV ON SX STRUCTURE 12KV

PAGE
337-6B

DESIGNED	CS	REVISED	REVISED
DRAWN	REC	CS	CS
DATE	08/31/01	REC	REC
			02/08/06

THESE DETAILS TO SHOW
POSITION OF FIBER ONLY

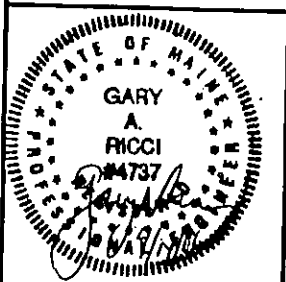


NOTE: OPTIC CABLE IN
FIBER SPACE SHALL BE
ATTACHED A MINIMUM
40" ABOVE SPACE TAG

ORIGINAL	CS
DESIGNED	REC
DRAWN	REC
DATE	06/08/00



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



MACRO

DESCRIPTION
FIBER POSITION ON 3PH XNFR UNIT CONV ON
ON SX STRUCTURE 12KV

PAGE
337-7B

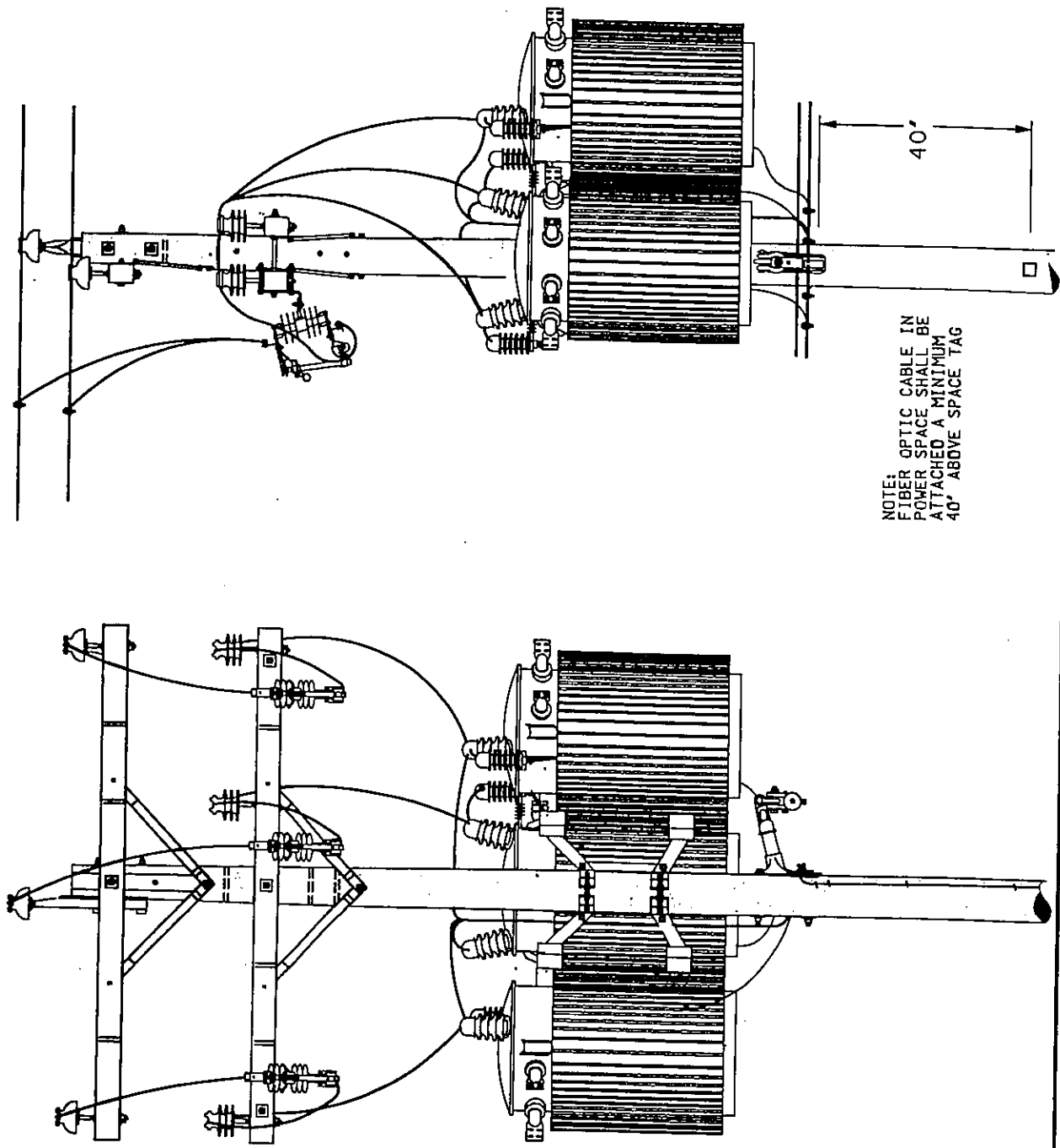
DESIGNED	CS	REVISED	REVISED
DRAWN	REC	REC	CS
DATE	08/31/01	02/09/06	



DESIGNED	CS	ORIGINAL
DRAWN	REC	
DATE	03/29/00	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

THESE DETAILS TO SHOW
POSITION OF FIBER ONLY



NOTE: OPTIC CABLE IN
POWER SPACE SHALL BE
ATTACHED A MINIMUM
40' ABOVE SPACE TAG



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS





TRANSFORMERS - GENERAL

Protected (CSP) Transformers

To provide the best possible protection for the transformer, the protected transformer is commonly used, especially for single phase residential services. The lightning arresters are mounted directly on the tank, thus providing the shortest, heaviest possible connection from arrester to tank and, therefore, the best possible chance to protect the transformer from overvoltage. Overload protection is provided by a circuit breaker in the secondary leads mounted under the oil and just above the transformer windings. If the transformer is overloaded, the heat from the transformer plus the heat from the current flow through the breaker trips the breaker. In case of a secondary short circuit, the breaker trips quickly from the current flow through the breaker. A fuse is connected in the primary lead of the transformer inside the tank to disconnect the transformer from the line in case of transformer failure. This fuse should not blow except on transformer failure, so no provision is made for replacing these fuses in the field. Caution: Protected transformers shall not be used in 3 phase transformer banks.

Series/Multiple Connections

Many transformers have dual voltage ratings. The various voltages may be provided by changing internal connections, external connections, an internally operated switch, or a switch with the shaft run through the tank wall for external operation. The transformer must always be deenergized to change voltages. The nameplate must be checked for any particular transformer, however, the most common series multiple secondary arrangements follow:

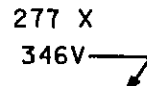
Transformer Ratings

- 277x346
- 240x480
- 138.5x277 (19.9 KV ONLY)
- 120/240
- 277/480 Y

Connection For

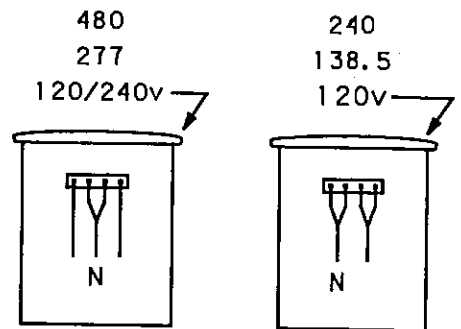


With 3 secondary bushings, reconnect inside the tank

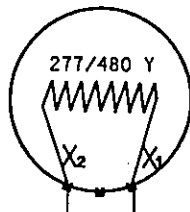


2 secondary bushings

Connection For



With 4 secondary leads, or 4 bushings, reconnect outside the tank as shown.

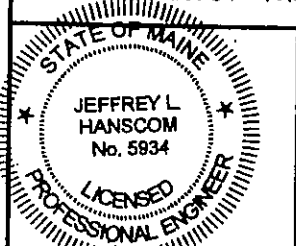


NO.	REVISION	DATE	CR.
1	Added 277/480Y rating. 2 sec bushing trans	12/05/07	SL



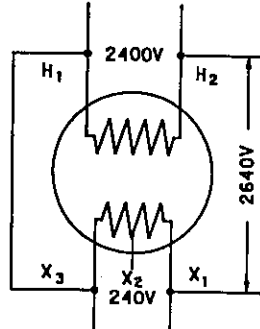
ORIGINAL	HEP	GRG	
DESIGNED			
DRAWN			
DATE	05/02/90		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

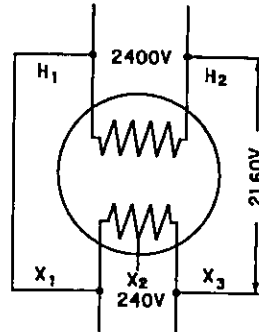


Jeffrey L. Hanscom 01/31/2008

TRANSFORMER - GENERAL



Additive Polarity



Subtractive Polarity

Illustrations of Transformer Polarity

The polarity of a transformer is additive if, when adjacent High and Low voltage terminals are connected (see above illustrations), and the transformer excited from either side, the sum of the High and Low voltages is measured across the other two adjacent terminals.

In the case of subtractive polarity transformers, the difference of the High and Low voltages will be measured across the remaining adjacent High and Low terminals.

If standard three phase bank connections are made, all transformers in the bank must be of the same polarity. If a transformer of odd polarity is included in the bank, the leads on either the high or the low side, but not on both sides, of the odd polarity unit must be reversed or the bank will be damaged by heavy circulating currents.

To parallel two individual transformers, connect H1 to H1, H2 to H2, X1 to X1, X2 to X2, and X3 to X3.

The NEMA standards for new transformers at this writing state that all single phase transformers with high voltage windings of 8660 volts or less and rated 200 kva or less shall be additive polarity. All others are to be subtractive polarity.

From the above data, it is obvious that most of the distribution transformers used on 2400/4160 and 7200/12470 lines will be of additive polarity.

Transformers used on 11kV and 20/34.5kV lines will be of subtractive polarity.

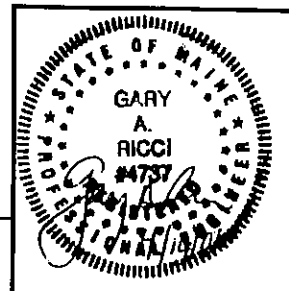
DESIGNED	REDRAWN	CS
DRAWN	REC	REC
DATE	0/03/01	01/31/06



last

DESIGNED	HEP
DRAWN	GRG
DATE	05/02/90

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



TRANSFORMERS - GENERAL

Transformer Siting

Distribution transformers contain various quantities of mineral oil used for internal insulation and to remove heat (generated from losses) away from current carrying parts. In general, there are no existing regulations that restrict the locating of distribution transformers near water. However, the volume of mineral oil in the transformer(s) may require certain measures to be taken.

If a single transformer contains greater than 660 gallons of mineral oil or if multiple transformers at one location contain greater than 1,320 gallons of mineral oil, then they may be subject to the Spill Prevention, Control and Countermeasure (SPCC) requirements of federal regulations. If you are planning to install equipment that will meet or exceed these volumes of oil, you should call the Environmental and Licensing Department for advice on whether an SPCC Plan is required.

Even though there are no state or federal prohibitions for mineral oil transformer locations, care should be taken when siting transformers around water sources to minimize the possibility of oil migrating towards the water if a spill should occur. When possible, transformers should be placed away from water sources or locations where oil spills could flow to water sources. Secondary conductors can be used to allow locating the transformers away from potentially sensitive locations, as long as the level of customer load and length of secondary run is considered.

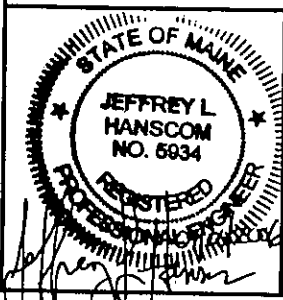
DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS	JLH	08/23/01
DATE	REC	REC	07/06/06

EnergyEast



DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	JRP
	06/15/98

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



The factors below are to be used as a guide for transformer loading.

The factor for electric heat customers allows for the normal appliance usage such as electric range, dryer, water heater, etc.

Transformers serving commercial customers must be considered individually.

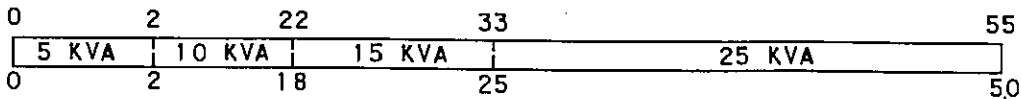
To size a transformer, add the factors for all the customers to be served, and use the upper scale if any electric heat customers are served, the lower scale if no electric customers are served. Smaller transformers than indicated may be used if electrical useage is known to be low.

For each electrically heated residence, use a factor of 1.1 per kW of installed heat. If installed heat is unknown, use a factor of 1.1 for each 100 square feet of floor space in a new house designed for electric heat, or a factor of 1.6 for each 100 square feet of floor space in a house being converted to electric heat.

For each 100 ampere residence service not electrically heated, use a factor of 3.

For each 60 ampere residence service or apartment, use a factor of 2.

FACTOR WITH ELECTRIC HEAT CUSTOMERS



FACTORS WITH NO ELECTRIC HEAT CUSTOMERS

Example I

1 - Electric heat customer with 11 kW installed	12.1
2 - 100 amp residence services	6
2 - 60 amp residence services	4
Total	22.1

This is over 22. Check secondaries for voltage drops, if satisfactory, use a 15 kVA if available, or a 25 kVA transformer.

Example II

2 - 100 amp residence services	6
4 - 60 amp residence services	8
3 - Apartments	6
Total	20

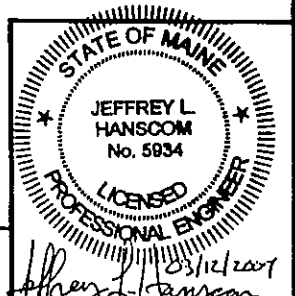
This is over 18 with no electric heat customers. Check secondaries for voltage drops, if satisfactory use a 15 kVA if available, or a 25 kVA transformer.

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

DESIGNED	RCS
DRAWN	RCE
DATE	2/01/75



1 CHANGE KVA RATIO AND RELOCATION	DATE
2 REPAIR "22.1"	DATE
3	DATE



Jeffrey L. Hanscom

DESIGNED	REVISOR	REVISION
DRAWN	DATE	
REC	06/16/98	03/14/06
CS	JRP	

TRANSFORMER KVA		VOLTAGE			
		2400 3 PHASE	2400 1 PHASE and 4160 3 PHASE	7200 1 PHASE and 12,470 3 PHASE	20 KV 1 PHASE and 34.5 KV 3 PHASE
1 PHASE	3 PHASE				
10	30	10 T	10 T	3 T	3 T
15	45	15 T	10 T	6 T	6 T
25	75	25 T	15 T	6 T	6 T
50	150	65 T	40 T	10 T	6 T
100	300	100 T	65 T	25 T	10 T
167½	500	140 T	100 T	40 T	15 T
250	750	200 T	140 T	65 T	25 T
333	1000	200 T	200 T	65 T	25 T
500	1500	-	200 T	100 T	40 T
	2000	-	-	140 T	65 T
	2500	-	-	200 T	65 T

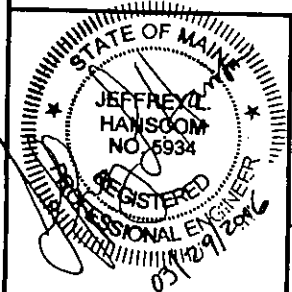
EnergyMaster



DESIGNED	HEP
DRAWN	GRG
DATE	05/02/90

- For single phase transformer use phase to ground (1 Phase) voltage and single phase transformer KVA.
- For 3 phase bank use phase to phase (3 Phase) voltage and individual single phase transformer KVA.
- For 3 phase transformer units use phase to phase (3 Phase) voltage and transformer 3 phase KVA.
- For open wye and delta banks use phase to ground (1 Phase) voltage and individual single phase transformer KVA.
- For phase to ground (1 Phase) use: $\frac{KVA}{KV_{\phi-G}} \times 1.5 = (X)$ Then choose next highest fuse available.
- For phase to phase (3 Phase) use: $\frac{KVA}{KV_{\phi-\phi} \sqrt{3}} \times 1.5 = (X)$ Then choose next highest fuse available.

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





MACRO

DESCRIPTION
CIRCUITS REQUIRING CURRENT LIMITING FUSES

PAGE
341-1A

Circuits Requiring Current Limiting Fuses
Alfred Service Center

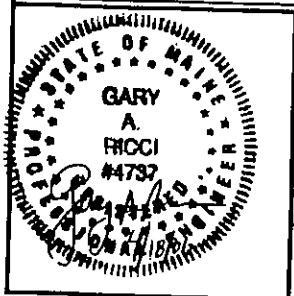
Substation	Circuit	Voltage (kV)	Required CLF Coverage, Distance From Substation	
			CSP'S	Conventional
Baldwin Top	691D1	34.5	6 Miles	n/r
Bar Mills	678D1	12.47	1 Mile	1/2 Mile
Bossett	602D1	34.5	Entire Circuit	3 miles
Berwick	603D1	12.47	1/2 Mile	n/r
	603D2	12.47	1/2 Mile	n/r
Biddeford Industrial	673D1	12.47	2 Miles	1 1/2 Miles
	673D2	12.47	2 Miles	1 1/2 Miles
	673D3	12.47	2 Miles	1 1/2 Miles
Biddeford Pump	605D1	12.47	1 Mile	1/2 Mile
	685D1	12.47	2 Miles	1 1/2 Miles
Bolt Hill	685D2	12.47	2 Miles	1 1/2 Miles
	610D1	12.47	1 1/2 Miles	1 Mile
Bonney Eagle	610D1	12.47	1 1/2 Miles	1 Mile
Bragdon Commons	689D1	12.47	1/2 Mile	1/2 Mile
Branch Brook	681D1	12.47	1 1/2 Miles	1 Mile
	681D2	12.47	2 Miles	1 1/2 Miles
	681D3	12.47	2 Miles	1 1/2 Miles
Butlers Corner	612D1	12.47	1 Mile	1/2 Mile
	612D2	12.47	1 Mile	1/2 Mile
Dunstan	617D2	12.47	1 1/2 Miles	1 Mile
Elliot	687D1	12.47	1/2 Mile	1/2 Mile
	621D1	12.47	1 1/2 Miles	1 1/2 Miles
Factory Island	621D2	12.47	1 1/2 Miles	1 1/2 Miles
	621D3	12.47	1 1/2 Miles	1 Mile
	621D4	12.47	1 1/2 Miles	1 Mile
	626D1	12.47	1 Mile	1/2 Mile
High Street	626D5	12.47	1 Mile	1/2 Mile
	419D1	12.47	1 Mile	1/2 Mile
Hiram	629D1	12.47	1 1/2 Miles	1 Mile
	629D2	12.47	1 1/2 Miles	1 Mile
	629D3	12.47	1 Mile	1/2 Mile
Kittery	688D1	12.47	1 1/2 Miles	1 Mile
	688D2	12.47	1 1/2 Miles	1 Mile
Limerick	632D1	12.47	1 Mile	1/2 Mile
	632D2	12.47	1 Mile	1/2 Mile
Lauden	633D1	12.47	1/2 Mile	1/2 Mile
May Street	634D1	12.47	1 1/2 Miles	1 1/2 Miles
	634D4	12.47	1 1/2 Miles	1 1/2 Miles
	634D2	12.47	1 1/2 Miles	1 1/2 Miles
	634D3	12.47	1 1/2 Miles	1 1/2 Miles
North Limington	638D1	12.47	1 1/2 Miles	1 Mile
	640D1	12.47	1/2 Mile	1/2 Mile
	640D2	12.47	1 1/2 Miles	1 Mile
Ogunquit	640D3	12.47	1 1/2 Miles	1 Mile
	641D1	12.47	1 1/2 Miles	1 Mile
	641D2	12.47	1 1/2 Miles	1 Mile
	641D3	12.47	1 1/2 Miles	1 Mile
Old Orchard Beach	641D4	12.47	1 1/2 Miles	1 Mile
	661D1	12.47	1 1/2 Miles	1 1/2 Miles
Pratt Whitney	661D2	12.47	1 1/2 Miles	1 1/2 Miles
	652D1	12.47	1 1/2 Miles	1 Mile
Saca Industrial Park	656D1	12.47	2 Miles	1 1/2 Miles
Sanford Industrial P	656D2	12.47	2 Miles	1 1/2 Miles
	656D3	12.47	2 Miles	1 1/2 Miles
	657D2	12.47	1 1/2 Miles	1 Mile
Sanford Switch	657D3	12.47	1 1/2 Miles	1 Mile
	657D4	12.47	1 1/2 Miles	1 Mile
	663D1	12.47	1 Mile	1/2 Mile
South Berwick	663D2	12.47	1 Mile	1/2 Mile

DESIGNED	REVIS	REVIS	REVIS
DRAWN			
DATE			



ORIGINAL	CS	REC
DESIGNED		
DRAWN		
DATE	01/23/06	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

DESCRIPTION
CIRCUITS REQUIRING CURRENT LIMITING FUSES

MACRO

Circuits Requiring Current Limiting Fuses				
Alfred Service Center (cont'd)				
Substation	Circuit	Voltage (kV)	Required CLF Coverage, Distance From Substation	
			CSP'S	Conventional
South Sonford	667D1	12.47	1 1/2 Miles	1 Mile
	667D2	12.47	1 1/2 Miles	1 Mile
Waterboro	671D1	12.47	2 Miles	1 1/2 Miles
	671D2	12.47	2 Miles	1 1/2 Miles
York Beach	676D1	12.47	1 1/2 Miles	1 Mile
	676D2	12.47	1 1/2 Miles	1 Mile
York Harbor	677D1	12.47	1 1/2 Miles	1 Mile
Circuits Requiring Current Limiting Fuses				
Augusta/Fairfield Service Center				
Substation	Circuit	Voltage (kV)	Required CLF Coverage, Distance From Substation	
			CSP'S	Conventional
Browns Crossing	211D1	12.47	2 Miles	1 1/2 Miles
	211D2	12.47	2 Miles	1 1/2 Miles
Winslow	870D1	12.47	1 1/2 Miles	1 Mile
	870D2	12.47	1 1/2 Miles	1 Mile
North Augusta	272D3	12.47	1 1/2 Miles	1 1/2 Miles
	272D4	12.47	1 1/2 Miles	1 1/2 Miles
Augusta K5	200D2	12.47	1 1/2 Miles	1 Mile
	200D3	12.47	1 1/2 Miles	1 Mile
Bond Brook	200D1 future	12.47	1 1/2 Miles	1 Mile
	208D1	12.47	1 1/2 Miles	1 Mile
South Waterville	208D2	12.47	1 1/2 Miles	1 Mile
	208D3	12.47	1 1/2 Miles	1 Mile
	855D1	12.47	1 1/2 Miles	1 Mile
Vassalboro	855D2	12.47	1 1/2 Miles	1 Mile
	861D8	12.47	1 1/2 Miles	1 Mile
Capitol Street	861D9	12.47	1 1/2 Miles	1 Mile
	215D5	12.47	1 1/2 Miles	1 Mile
	215D2	12.47	1 1/2 Miles	1 Mile
Blair Road	215D3	12.47	1 1/2 Miles	1 Mile
	207D1	12.47	1 1/2 Miles	1 Mile
Cony Road	207D2	12.47	1 1/2 Miles	1 Mile
	216D1	12.47	1 1/2 Miles	1 Mile
	216D2	12.47	1 1/2 Miles	1 Mile
Detroit	216D3	12.47	1 1/2 Miles	1 Mile
	812D1	12.47	1 1/2 Miles	1 Mile
West Waterville	812D2	12.47	1 1/2 Miles	1 Mile
	865D2	12.47	1 1/2 Miles	1 Mile
	865D5	12.47	1 1/2 Miles	1 Mile
Winthrop	865D1	12.47	1 Mile	1/2 Mile
	256D2	12.47	1 Mile	1/2 Mile
	256D3	12.47	1 Mile	1/2 Mile
Shawmut	256D1	12.47	1 1/2 Miles	n/r
	852D1	12.47	1 Mile	1/2 Mile
Rice Rips	873D2	12.47	1 Mile	1/2 Mile
Fairfield	817D1	12.47	1 Mile	1 Mile
	817D3	12.47	1 Mile	1 Mile
	817D2	12.47	1 Mile	1/2 Mile
Gardiner	226D2	12.47	1 Mile	1/2 Mile
	839D1	12.47	1 Mile	1/2 Mile
Oakland	839D2	12.47	1 Mile	1/2 Mile
	873D1	34.5	17 Miles	6 Miles
Puddock	262D1	34.5	17 Miles	5 1/2 Miles
Rondalphi Circuit	263D1	34.5	* 14 Miles	* 2 1/2 Miles

(* FROM RECLOSER or 17 ml. and 6 ml, respectively from s/s)

DESIGNED	
DRAWN	
DATE	



DESIGNED	CS
DRAWN	REC
DATE	01/23/06

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



MACRO

DESCRIPTION
CIRCUITS REQUIRING CURRENT LIMITING FUSES

PAGE
341-1C

Circuits Requiring Current Limiting Fuses
Brunswick Service Center

Substation	Circuit	Voltage (kV)	Required CLF Coverage, Distance From Substation	
			CSP'S	Conventional
Washington St	204D1	4.16	1/2 Mile	
	204D3	4.16	1/2 Mile	n/r
	204D6	34.5	12 miles	n/r
Brunswick WS	213D1	12.47	1/2 Mile	6 1/2 Miles
	213D3	12.47	1/2 Mile	n/r
Cooks Corner	217D1	12.47	2 Miles	1/2 Mile
	217D2	12.47	2 Miles	1/2 Mile
	217D3	34.5	9 1/2 Miles	3 1/2 Miles
Lisbon	231D1	12.47	1 Mile	n/r
	231D2	12.47	1 Mile	n/r
Topsham Old	249D2	12.47	1 Mile	n/r
Topsham 115	250D1	12.47	1 1/2 Miles	1 Mile
	250D2	12.47	1 1/2 Miles	1 Mile
Both 115	261D3	12.47	1 Mile	n/r
	261D4	12.47	1 Mile	n/r
Brunswick Hydro	273D4	12.47	1 1/2 Miles	1 Mile
	273D5	12.47	1 1/2 Miles	1 Mile
Elm St	620D1	12.47	2 Miles	1 1/2 Miles
	620D2	12.47	1/2 Mile	1/2 Mile
	620D3	12.47	2 Miles	1 1/2 Miles

Circuits Requiring Current Limiting Fuses
Farmington/Skowhegan/Dover Service Centers

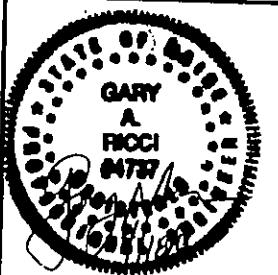
Substation	Circuit	Voltage (kV)	Required CLF Coverage, Distance From Substation	
			CSP'S	Conventional
Livermore Falls	428D1	12.47 kV	1 1/2 Miles	1 Mile
	428D2	12.47 kV	1 1/2 Miles	1 Mile
	428D3	12.47 kV	1 1/2 Miles	1 Mile
Sturtevant	858D3	12.47 kV	1 1/2 Miles	1 Mile
	858D4	12.47 kV	1 1/2 Miles	1 Mile
Rumford B3	447D1	12.47 kV	1 1/2 Miles	1 Mile
	447D2	12.47 kV	1 1/2 Miles	1 Mile
	447D3	12.47 kV	1 1/2 Miles	1 Mile
Hartland	824D1	12.47 kV	1 1/2 Miles	1 Mile
	824D2	12.47 kV	1 1/2 Miles	1 Mile
Skowhegon North	853D1	12.47 kV	1 Mile	3/4 Mile
	853D2	12.47 kV	1 Mile	3/4 Mile
Skowhegon South	854D1	12.47 kV	1 Mile	3/4 Mile
	854D2	12.47 kV	1 Mile	3/4 Mile
Gulford	821D1	12.47 kV	1 Mile	3/4 Mile
	821D2	12.47 kV	1 Mile	3/4 Mile
Emden	868D1	12.47 kV	1/2 Mile	n/r
	866D1	12.47 kV	1/2 Mile	n/r
Weston	866D2	12.47 kV	1/2 Mile	n/r
	872D1	12.47 kV	3/4 Mile	n/r
Wyman Hydro	837D1	12.47 kV	N/A	1/4 Mile
	837D2	12.47 kV	N/A	N/A
Bangor Hydro	120D1-1	12.47 kV	1/4 Mile	N/A
	Carmel	808D1	* 3/4 Mile	* 1/4 Mile
Carmel	808D1	12.47 kV	3 Miles	1/2 Mile
	808D2	12.47 kV	3 Miles	1/2 Mile
Gulford	821D3	34.5 kV	8 Miles	2 Miles
	Sturtevant	858D1A	34.5 kV	11 Miles
Livermore Falls	858D1B	34.5 kV	14 Miles	3 Miles
	428D4	34.5 kV	14 Miles	3 Miles
Bigelow	882D1	34.5 kV	7 Miles	1 Mile
	882D2	34.5 kV	13 Miles	2 Miles
Rumford Ind	466D1	34.5 kV	12 Miles	1 Mile
Monson	834D1	34.5 kV	10 Miles	N/A
Bethel	403D2	34.5 kV	7 Miles	N/A

DESIGNED	REVISOR	REVISION
DRAWN		
DATE		



DESIGNED	CS	REC
DRAWN		
DATE	01/23/06	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

DESCRIPTION
CIRCUITS REQUIRING CURRENT LIMITING FUSES

MACRO

Circuits Requiring Current Limiting Fuses				
Formington/Skowhegan/Dover Service Centers (cont'd)				
Required CLF Coverage, Distance From Substation				
Substation	Circuit	Voltage (kV)	CSP'S	Conventional
Rangeley	875D2	34.5 kV	3 Miles	N/A
Newry	460K1	34.5 kV	2 Miles	N/A
			* FROM RECLD5ER	* FRDM RECLOSER
Circuits Requiring Current Limiting Fuses				
Lewiston/Bridgton Service Centers				
Required CLF Coverage, Distance From Substation				
Substation	Circuit	Voltage (kV)	CSP'S	Conventional
Bridgton	406D1	12.47	1 Mile	1/2 Mile
	406D2	12.47	1 Mile	1/2 Mile
	406D3	12.47	1 Mile	1/2 Mile
Fryeburg	415D1	4.16	1/2 Mile	1/2 Mile
	415D3	4.16	1/2 Mile	1/2 Mile
Hiram	419D1	12.47	1 Mile	1/2 Mile
Norway	435D1	12.47	2 Miles	1/2 Miles
	435D2	12.47	2 Miles	1/2 Miles
	435D3	12.47	2 Miles	1/2 Miles
Oxford	437D1	12.47	1 Mile	1/2 Mile
Papoose Pond	438D1	34.5	Entire 34.5 kV Portion	n/r
Raymond (Local)	444D1	12.47	1 1/2 Miles	1 Mile
	444D2	12.47	1 1/2 Miles	1 Mile
	444D3	12.47	1 1/2 Miles	1 Mile
Raymond (115 kV)	445D1	34.5	Entire 34.5 kV Portion	Entire 34.5 kV Portion
Baldwin tap	691D1	34.5	Entire 34.5 kV Portion	n/r
Crowley's	411D1	12.47	1 1/2 Miles	1 1/2 Miles
	411D2	12.47	1 1/2 Miles	1 1/2 Miles
Deer Rips	412D1	12.47	2 Miles	1 1/2 Miles
	412D2	12.47	2 Miles	1 1/2 Miles
	412D3	12.47	2 Miles	1 1/2 Miles
	412D4	12.47	2 Miles	1 1/2 Miles
Gray	416D1	12.47	1 Mile	1/2 Mile
	416D2	12.47	1 Mile	1/2 Mile
Hotel Road	420D1	12.47	2 Miles	1 1/2 Miles
	420D2	12.47	2 Miles	1 1/2 Miles
	420D5	12.47	2 Miles	1 1/2 Miles
	420D4	34.5	Entire 34.5 kV Portion	Entire 34.5 kV Portion
	420D6	34.5	Entire 34.5 kV Portion	Entire 34.5 kV Portion
	420D7	34.5	Entire 34.5 kV Portion	Entire 34.5 kV Portion
Challenger Drive	421D4	34.5	Entire Circuit	Entire Circuit
	421D1	12.47	1 1/2 Miles	1 1/2 Miles
	421D2	12.47	1 1/2 Miles	1 1/2 Miles
Lewiston Lower	424D2	12.47	2 Miles	1 1/2 Miles
	424D4	12.47	2 Miles	1 1/2 Miles
	424D5	12.47	2 Miles	1 1/2 Miles
	424D6	12.47	2 Miles	1 1/2 Miles
Lewiston	426D2	12.47	2 Miles	1 1/2 Miles
	426D3	12.47	2 Miles	1 1/2 Miles
	426D6	12.47	2 Miles	1 1/2 Miles
	426D8	12.47	2 Miles	1 1/2 Miles
Mechanic Falls	431D1	12.47	1 1/2 Miles	1 Mile
	431D2	12.47	1 1/2 Miles	1 Mile
Great Falls	436D1	12.47	1 1/2 Miles	1 Mile
	436D2	12.47	1 1/2 Miles	1 Mile
	436D3	12.47	1 1/2 Miles	1 Mile
	436D6	12.47	1 1/2 Miles	1 Mile
Sabattus	450D1	12.47	1 1/2 Miles	1 Mile
	450D2	12.47	1 1/2 Miles	1 Mile
Turner	454D1	12.47	1 1/2 Miles	1 1/2 Mile
	454D2	12.47	1 1/2 Miles	1 1/2 Mile
Wales Corner	456D1	34.5	Entire 34.5 kV Portion	n/r

DESIGNED
DRAWN
DATE



EAST

DESIGNED
DRAWN
DATE
REC
01/23/06

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



MACRO

DESCRIPTION
CIRCUITS REQUIRING CURRENT LIMITING FUSES

PAGE
341-1E

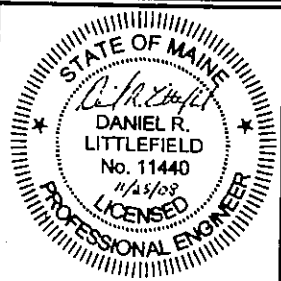
NO.	REVISION	DATE	CHK.
1	Added Fore River Substation		
2	Added 2 Substations & cir 647D3	11/25/08	JZ

Circuits Requiring Current Limiting Fuses					
Portland Service Center					
Substation	Circuit	Voltage (kV)	Required CLF Coverage, Distance From Substation		
			CSP'S	Conventional	
Gray	416D3	12.47	1 1/2 Mile	n/r	
	607D1	12.47	1 1/2 Miles	1 Mile	
	607D2	12.47	1 1/2 Miles	1 Mile	
Bishop Street	607D5	12.47	1 1/2 Mile	1 1/2 Mile	
	610D2	12.47	2 Miles	1 1/2 Miles	
	611D1	12.47	2 Miles	1 1/2 Miles	
Bonny Eagle	611D2	12.47	2 Miles	1 1/2 Miles	
	611D3	12.47	2 Miles	1 1/2 Miles	
	613D1	12.47	1 Mile	1 1/2 Mile	
Brighton Avenue	613D2	12.47	1 Mile	1 1/2 Mile	
	613D3	12.47	1 1/2 Mile	n/r	
	617D1	12.47	1 1/2 Miles	1 Mile	
Dunstan	617D2	12.47	1 1/2 Miles	1 Mile	
	618D1	12.47	1 1/2 Mile	n/r	
East Deering	618D2	12.47	1 Mile	1 1/2 Mile	
	618D3	12.47	1 Mile	1 1/2 Mile	
	620D1	12.47	2 Miles	1 1/2 Miles	
Elm Street	620D2	12.47	1 1/2 Mile	1 1/2 Mile	
	620D3	12.47	2 Miles	1 1/2 Miles	
	620D4	12.47	2 Miles	1 1/2 Miles	
	622D1	12.47	1 1/2 Miles	1 Mile	
Falmouth	622D2	12.47	1 1/2 Miles	1 Mile	
	653D1	12.47	Entire Circuit	Entire Circuit	
Fore River	653D2	12.47	Entire Circuit	Entire Circuit	
	653D3	12.47	Entire Circuit	Entire Circuit	
	653D4	12.47	Entire Circuit	Entire Circuit	
	653D5	12.47	Entire Circuit	Entire Circuit	
	653D6	12.47	Entire Circuit	Entire Circuit	
	623D1	12.47	2 Miles	1 1/2 Miles	
Forest Avenue	623D2	12.47	2 Miles	1 1/2 Miles	
	623D4	12.47	2 Miles	1 1/2 Miles	
	623D5	12.47	2 Miles	1 1/2 Miles	
	624D1	12.47	1 1/2 Mile	1 1/2 Mile	
Fort Hill	624D2	12.47	1 1/2 Mile	1 1/2 Mile	
	631D1	12.47	1 1/2 Miles	1 Mile	
Lambert Street	631D2	12.47	1 1/2 Miles	1 Mile	
	635D1	12.47	2 Miles	1 1/2 Miles	
Mosher's	635D2	12.47	2 Miles	1 1/2 Miles	
	639D1	12.47	1 Mile	1 1/2 Miles	
North Windham	639D2	12.47	1 1/2 Mile	1 1/2 Mile	
	644D1	12.47	2 Miles	n/r	
Pleasant Hill	644D2	12.47	2 Miles	1 1/2 Miles	
	644D3	12.47	2 Miles	1 1/2 Miles	
	644D4	12.47	2 Miles	1 1/2 Miles	
	645D1	12.47	1 Mile	1 1/2 Mile	
Union Street	645D2	12.47	2 Miles	1 1/2 Miles	
	645D3	12.47	2 Miles	1 1/2 Miles	
	645D4	12.47	2 Miles	1 1/2 Miles	
	645D7	12.47	2 Miles	1 1/2 Miles	
	645D8	12.47	2 Miles	1 1/2 Miles	
	645D9	12.47	2 Miles	1 1/2 Miles	
	645NI-N6	11	N/A	N/A	
	Randall Road	646D1	12.47	1 1/2 Mile	1 1/2 Mile
	Prides Corner	647D1	12.47	2 Miles	1 1/2 Miles
647D2		12.47	2 Miles	1 1/2 Miles	
647D3		12.47	2 Miles	1 1/2 Miles	



ORIGINAL	CS	REC	DATE
DESIGNED			01/23/06
DRAWN			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

DESCRIPTION
CIRCUITS REQUIRING CURRENT LIMITING FUSES

MACRO

Circuits Requiring Current Limiting Fuses				
Portland Service Center (cont'd)				
Substation	Circuit	Voltage (kV)	Required CLF Coverage, Distance From Substation	
			CSP'S	Conventional
Rigby	650D1	12.47	1/2 Miles	n/r
	650D3	12.47	1 1/2 Miles	1 Mile
	650D4	12.47	1 1/2 Miles	1 Mile
Sewall Street	659D4	12.47	2 Miles	1 1/2 Miles
	659D5	12.47	2 Miles	1 1/2 Miles
	659D6	12.47	2 Miles	1 1/2 Miles
	659D8	12.47	2 Miles	1 1/2 Miles
	659D9	12.47	2 Miles	1 1/2 Miles
	659D13	12.47	2 Miles	1 1/2 Miles
Spring Street	668D1	12.47	2 Miles	1 1/2 Miles
	668D2	12.47	2 Miles	1 1/2 Miles
	668D3	12.47	2 Miles	1 1/2 Miles
	668D4	34.5	Entire circuit	3 Miles
	668D5	12.47	2 Miles	1 1/2 Miles
	668D6	34.5	Entire circuit	Entire circuit
Westbrook	674D1	12.47	1 1/2 Miles	1 Mile
	674D2	12.47	1 1/2 Miles	1 Mile
Western Avenue	675D1	12.47	2 Miles	1 1/2 Miles
	675D2	12.47	2 Miles	1 1/2 Miles
	675D3	12.47	2 Miles	1 1/2 Miles
Bar Mills	678D1	12.47	1/2 Mile	1/2 Mile
Swift Road	682D1	12.47	1/2 Mile	1/2 Mile
	682D2	12.47	1/2 Mile	1/2 Mile
Hinkley Pond	690D1	12.47	2 Miles	1 1/2 Miles
	690D2	12.47	2 Miles	1 1/2 Miles
	690D3	12.47	2 Miles	1 1/2 Miles
Scarborough	693D1	12.47	1 1/2 Miles	1 Mile
	693D2	12.47	1 1/2 Miles	1 Mile
Redbrook	696D1	34.5	N/A	N/A
	696D2	34.5	N/A	N/A
	696D3	34.5	Entire Circuit	Entire Circuit

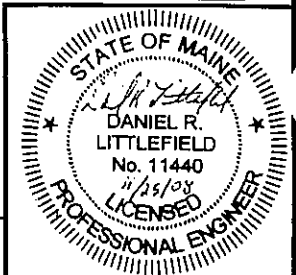
Circuits Requiring Current Limiting Fuses				
Rockland/Belfast Service Centers				
Substation	Circuit	Voltage (kV)	Required CLF Coverage, Distance From Substation	
			CSP'S	Conventional
Belfast 115	874D1	12.47	1/2 Mile	n/r
Belfast West Side	803D4	12.47	1 Mile	n/r
	803D5	12.47	1 Mile	n/r
	803D6	34.5	8 Miles	2 1/2 Miles
Bucksport	806D2	34.5	5 Miles	n/r
Lincolnton	800D1	34.5	Entire 34.5 kV Portion	n/r
	Camden	214D1	12.47	1 Mile
Meadow Rd Park Street	214D2	12.47	1 Mile	n/r
	214D3	12.47	1 Mile	n/r
	214D4	12.47	1 Mile	n/r
	270D1	12.47	1/2 Mile	n/r
	239D5	12.47	2 Miles	1 Mile
Thomaston Creek	239D6	12.47	1 1/2 Miles	1 Mile
	239D7	12.47	1 1/2 Miles	1 Mile
	239D8	12.47	Entire Circuit	1 Mile
	239D9	12.47	Entire Circuit	1 Mile
246D1	34.5	Entire 34.5 kV Portion	2 Miles	

BE REVISED ON THE
CADD SYSTEM ONLY

DATE 01/30/06
DRAWN REC
DATE 01/30/06

Engt
ast

2 Added 668D5 & 682D2, Reordered 659D13
11/25/08



THIS SHEET LEFT BLANK INTENTIONALLY

DESCRIPTION
TRANSFORMER LEAD SIZE FOR SINGLE
PHASE TRANSFORMERS

MACRO

TRANSFORMER LEAD SIZES FOR SINGLE PHASE TRANSFORMERS
(Based on 150 % of the transformer rating)

NOMINAL TRANSFORMER VOLTAGE

TRANSFORMER KVA RATING	120/240 V *		2400 V	7200 V	20,000V
	COPPER	ALUMINUM	COPPER	COPPER	COPPER
3 - 15	#4 WP**	#2 WP**	#2 WP**	#2 WP**	#2 WP**
25	#2 WP	1/0 WP	#2 WP	#2 WP	#2 WP
50	4/0 WP	336.4 KCM WP	#2 WP	#2 WP	#2 WP
75	500 KCM WP	336.4 KCM WP	#2 WP	#2 WP	#2 WP
100	500 KCM WP	2-336.4 KCM WP	#2 WP	#2 WP	#2 WP
167	2-500 KCM WP	2-336.4 KCM WP	#2 WP	#2 WP	#2 WP
250			#2 WP	#2 WP	#2 WP
333			2/0 WP	#2 WP	#2 WP
500			4/0 WP	#2 WP	#2 WP

* For cases requiring 2 or more sets of leads per phase, use compression or clamp type lugs to attach leads to the transformer.

** WP is used to indicate covered wire

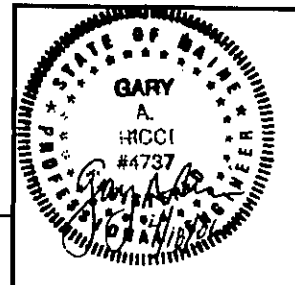
DESIGNED	CS
DRAWN	REC
DATE	08/23/01
	05/07/02



East

DESIGNED	REDRAWN
DRAWN	CRG
DATE	11/30/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



DESIGNED	CS	REVISED	REVISED
DRAWN	REC	CS	CS
DATE	08/23/01	REC	06/13/06

DESIGNED	REDRAWN	ORIGINAL
DRAWN	JRP	
DATE	06/23/98	



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

MINIMUM TRANSFORMER LEAD SIZES FOR THREE PHASE TRANSFORMERS

(Based on 150% of the transformer or bank rating)

TRANSFORMER BANK OR 3Ø TRANSFORMER KVA RATING	120/208 V ** 240 V	277/480 V** 480 V	2400/4160 V.	7200/12470 V. 20000/34500 V.*
15	COPPER #4	ALUMINUM N/A	COPPER #4	COPPER #4
30	COPPER #4	ALUMINUM N/A	COPPER #4	COPPER #4
45	COPPER #2 WP	ALUMINUM N/A	COPPER #4	COPPER #4
75	COPPER 4/0 WP	ALUMINUM 1/0	COPPER #4	COPPER #4
112½	COPPER 300 MCM WP	ALUMINUM 3/8	COPPER #4	COPPER #4
150	COPPER 500 MCM WP	ALUMINUM 3/8	COPPER #4	COPPER #4
225	COPPER 2-350 MCM WP	ALUMINUM 3/8	COPPER #4	COPPER #4
300	COPPER 2-500 MCM WP	ALUMINUM 3/8	COPPER #4	COPPER #4
750	COPPER ***	ALUMINUM 3/8	COPPER #2 WP	COPPER #4
1000	COPPER ***	ALUMINUM ***	COPPER 1/0 WP	COPPER #4
1500	COPPER ***	ALUMINUM ***	COPPER 4/0 WP	COPPER #4

* Use #4 bare stranded soft-drawn copper. Do not use conductors with weatherproofing.

** For cases requiring 2 sets of leads or more, use compression or clamp type lugs to attach leads to the transformer. Transformers rated 167 KVA or more come with spades on the low voltage side. These spades facilitate the attachment of the lugs.

For cases where multiple sets of leads are required and no spades exist, use the 4 hole transformer flag lug (MID#600018865).

*** Refer to Distribution Engineer.



PAGE 342	DESCRIPTION THREE PHASE TRANSFORMERS	MACRO
-------------	---	-------

THREE PHASE TRANSFORMERS

Three phase transformers are built using various combinations of cores and coils in a single tank and include:

1. Three single phase core and coil units, which may be connected in any of the ways three single phase transformers are connected.
2. Two single phase core and coil units with special taps so that a T-T connection can be used.
3. Three coils on a single core with multiple legs for mounting the coils.

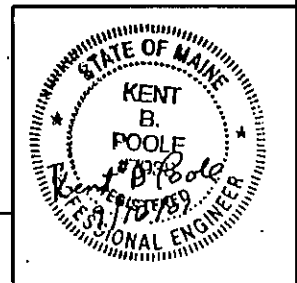
Due to the various characteristics of three phase transformers, no attempt should be made to parallel three phase transformers with three phase banks of single phase transformers or other three phase transformers.

Three phase transformers should not be energized on a single phase basis for any longer than necessary to operate switches or cutouts. Moderate single phase loads may be carried on three phase units if all three phases are energized.

DESIGNED	REDRAWN	CS
DRAWN	JRP	REC
DATE	06/23/98	08/23/01

DESIGNED	RCS
DRAWN	RCE
DATE	12/01/75

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



THREE PHASE TRANSFORMER CONNECTIONS

The transformer connections in this section show additive polarity terminal markings. The NEMA standards for new transformers at this writing state that all single phase transformers with high voltage windings of 8660 volts or less and rated 200 kVA or less shall be additive polarity. All others are to be subtractive polarity. The connections shown may be used on transformers of either polarity; however, the important consideration is the instance where one transformer is of odd polarity with respect to the other transformers in the bank. In this case, the leads on the odd unit must be reversed, either on the high side or the low side but never on both.

Conventional transformers, two bushing transformers, and transformers of the same impedance must be used in certain banks. This is explained in the discussion of the various banks. All transformers in a bank should be of the same voltage ratio and taps should be at the same position.

Protected transformers shall not be used in three phase transformer banks due to the configuration of the secondary breaker connections on the protected transformer.

Page 342-2 lists the transformer connections that may be used to obtain various customer service voltages from different primary lines. In many cases there may be a choice, depending upon the available transformers, type of customer load, and other load factors which are explained on the pages with the connection diagrams.

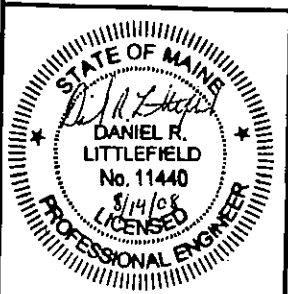
NO.	REVISION	DATE	CK.
1	1st perg, 3rd from last line add "other"	07/01/00	

ENERGY



DESIGNED	EVG	RCE	09/30/76
DRAWN			
DATE			

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



THREE PHASE TRANSFORMER CONNECTIONS
CONNECTION DIAGRAM INDEX NUMBER REFERENCE

Customer Service Voltage	20/34.5 kV Grd. Wye	Distribution Line Voltage 7200/12470 Grd Wye & 2400/4160 Grd Wye
120/208 volt 4 wire wye	*2, 14	*2, 8, 14
120/240 volt 4 wire Delta	7	*5, 7, 11, 13
240 volt 3 wire	*3, 6	*4, 6, 10, 12
277/480 volt 4 wire wye	2	*2, 8
480 volt 3 wire	*3, 6	*3, +4, +6, 9, 10, 12
600 volt 3 wire	3	*3, 4, 6
480 volt 2Ø 4 wire	1	15

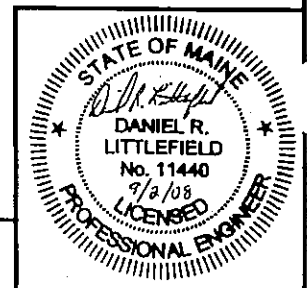
* Preferred connections.

+ Use 4 or 6 on overhead banks if 480 volt transformers are available.

NOTE: See Distribution Engineer for any distribution line voltages not listed above.

CONNECTION DIAGRAM INDEX

1. Not available at this time
2. Wye-Wye bank for four wire services; see page 342-6 series
3. Wye-Wye bank for three wire services; see page 342-7 series
4. Wye-Delta bank with three wire secondary; see page 342-8 series
5. Wye-Delta bank with four wire secondary; see page 342-9 series
6. Open Wye-Open Delta with three wire secondary; see page 342-10 series
7. Open Wye-Open Delta with four wire secondary; see page 342-11 series
8. Delta-Wye bank for four wire service; see page 342-12 series
9. Delta-Wye bank for three wire service; see page 342-13 series
10. Delta-Delta bank with three wire secondary; see page 342-14 series
11. Delta-Delta bank with four wire secondary; see page 342-15 series
12. Open Delta-Open Delta with three wire secondary; see page 342-16 series.
13. Open Delta-Open Delta with four wire secondary; see page 342-17 series
14. Open Wye-Wye bank with 120/208 volt secondary; see page 342-18 series
15. Wye-2 bank with four wire secondary; see page 342-19



CADD SYSTEM ONLY

DRAWN
DATE
JRP
06/23/98

Eng
Fast

Check List notes:

Each of the three phase transformer bank connection diagrams has a check list. The following explanations should be helpful in checking the banks:

1. Conventional transformers: Protected type transformers must not be used on banks with a delta connection because the load will automatically shift to the remaining transformers and overload them if one transformer trips out on overload. On 4 wire delta secondaries if the transformer with the center tap grounded trips out the neutral will be floating with damage resulting to the customer's 120 volt loads. If the check list specifies conventional transformers, protected transformers must not be used.

Conventional or protected: Either type of transformer may be used in Wye - 2 phase banks as each transformer acts independently as a single phase transformer and the loss of one transformer has no effect on the other.

2. Two primary bushings each: If both ends of the primary winding must be insulated, two primary bushings are required on each transformer.

One or two primary bushings each: If one end of the primary winding is to be grounded, a single bushing transformer may be used, since one end of the primary winding is connected internally to the tank. The tank then serves as the other terminal and when grounded completes the circuit. Therefore, the H1 bushing should always be connected to a phase wire, to facilitate repair should a single bushing transformer only be available.

3. Primary neutral insulated: When it is specified that the primary neutral be insulated, the primary neutral on the transformer bank must not be grounded and it must not be connected to the system neutral. On wye-delta banks if the primary neutral is grounded, the bank will act as a grounding bank and may burn out a transformer winding during phase to ground faults or primary system load unbalance.

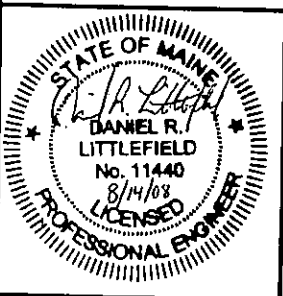
Primary neutral grounded: When it is specified that the primary neutral be grounded, the primary neutral on the transformer bank must be connected to the system neutral and grounded. On wye-wye banks and open wye-open delta banks the primary neutral must be grounded in order to control the voltage on the primary windings. 20/34.5 kV distribution class transformers are built so that they must be operated with one end of the primary winding grounded to prevent ferroresonance and other overvoltage problems. For this reason 20/34.5 kV distribution class transformers must not be used with the primary neutral insulated.

NO.	REVISION	DATE	CK.
1	Corrected text	07/01/08	



DESIGNED	EVG
DRAWN	RCE
DATE	06/05/08

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NO.	REVISION	DATE	CHK.
1	Supplemental Notes 7 & 8, revised notes 8 to 342-4, corrected text	07/01/08	

7. Do not use to serve 3 wire 3 phase services: 3 wire 3 phase services must not be connected to transformer banks connected for 4 wire services since National Electrical Code Section 250-23 (b) requires that any AC system of 1000 volts or less that is grounded at any point must have the grounded conductor run to each service entrance switch. Customers may run 208 or 480 volt 3 wire loads from 4 wire services.

Do not use to serve 4 wire 3 phase services: 4 wire 3 phase services are required to have a grounded wire. If the secondary neutral is insulated at the bank, it must not be connected to a service wire that is required to be grounded elsewhere.

Do not use on 20/34.5 kV: Transformer banks that require an insulated high voltage neutral cannot be used on 20/34.5 kV since all distribution class 20/34.5 kV transformers must be operated with one end of the high voltage winding grounded.

8. Transformers must be matched: On delta-delta banks a mismatch in transformer characteristics can cause three phase loads to be unequally divided between transformers, or can circulate currents through the bank when no customer load is on the bank. For a bank of transformers to be matched the winding ratio must be the same, the impedances must be within 10% of each other and all transformers must be on the same tap.

To determine the winding ratio, divide the primary voltage as given on the nameplate by the secondary voltage.

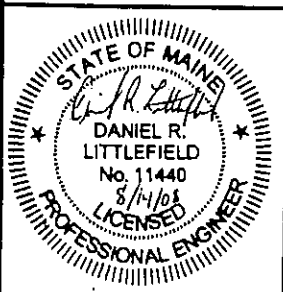
If the impedances are not all the same, check the impedances by subtracting the lowest impedance from the highest. This difference should not be more than 1/10th of the lowest impedance in the bank.

Where matched transformers are not specified in the check list, transformers should match as nearly as practical to maintain balanced voltages on the customer's service.

EnergyEast

DESIGNED	ORIGINAL
DRAWN	RCS
DATE	RCE
	12/01/75

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

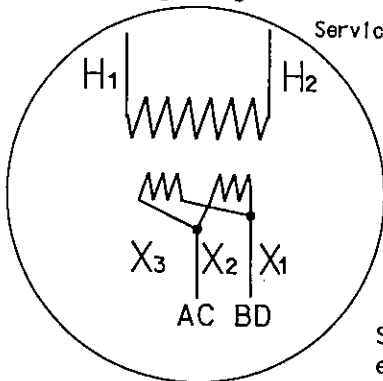
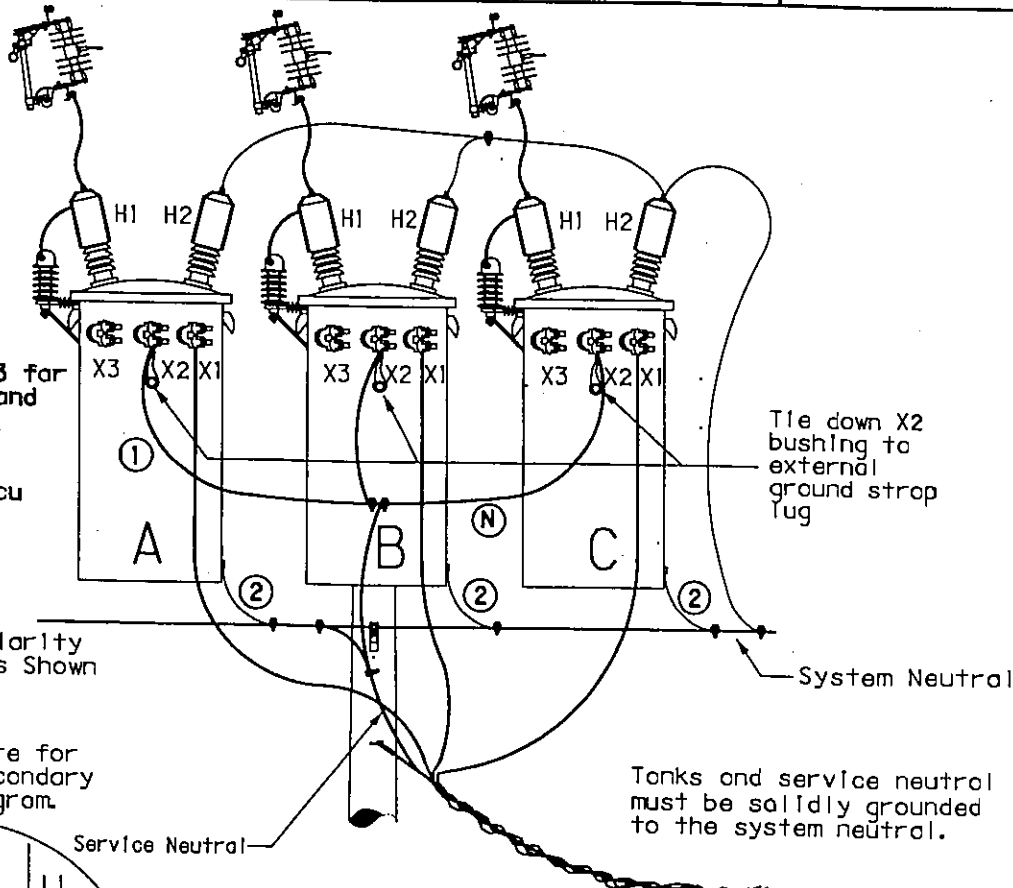




HEC	REVISION	DATE	DR.
	1 Chngd note 8 to note 5, chngd neut conn	08/14/08	

- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4 cu

NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.



120/240 Winding

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1A-X1B	208	X1A-N	120	120/240
X1B-X1C		X1B-N		
X1C-X1A		X1C-N		

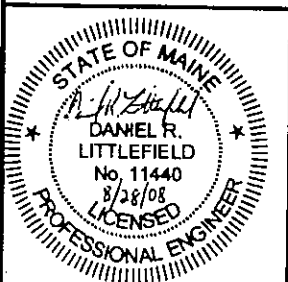
See check list notes starting on p.342-3, 4, & 5 for explanations.

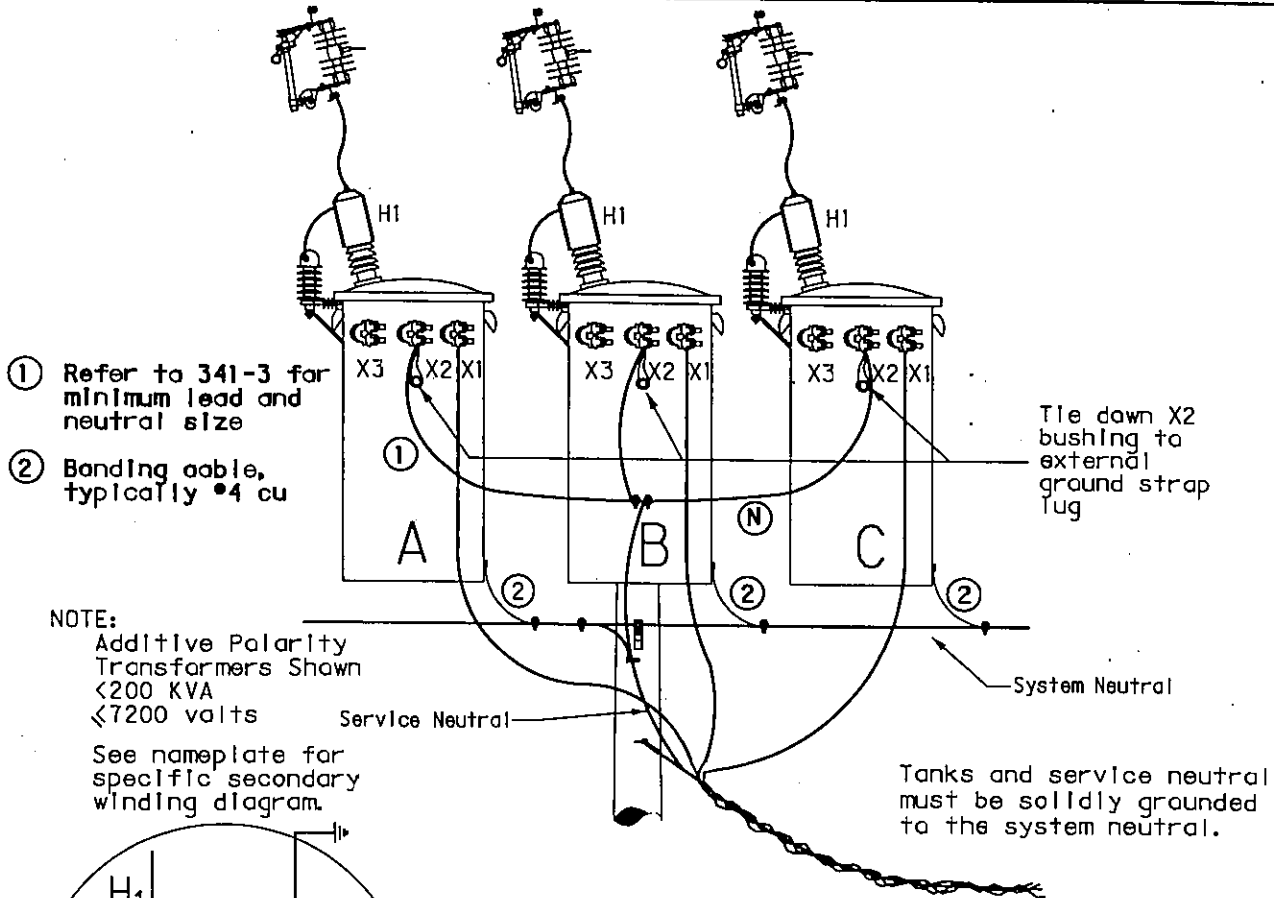
1. Conventional transformers
2. One or two primary bushing transformers
3. Primary neutral grounded
4. Primary windings rated phase to neutral voltage
5. Secondary neutral grounded
The neutral bus on the bank must be the same size as the phase wires.
6. Secondary windings rated phase to neutral voltage
7. Do not use to serve 3 wire 3 phase services.

This connection shown may be used to supply 120/208 volt 4 wire wye services from 4 wire wye primary systems, with the coils connected in parallel. The connection from neutral bus to service neutral must be as large as the service neutral.

ORIGINAL	JLH	REC	11/30/05
DESIGNED		DRAWN	DATE

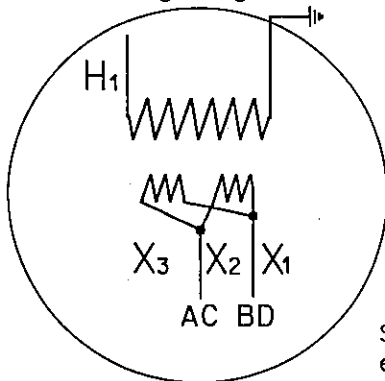
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





- ① Refer to 341-3 for minimum lead and neutral size
- ② Banding cable, typically #4 cu

NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.



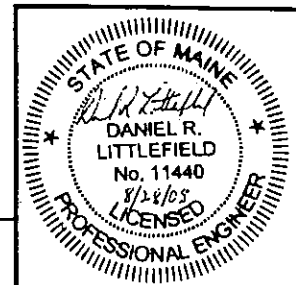
120/240 Winding

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1 A-X1B	208	X1A-N	120	120/240
X1B-X1C		X1B-N		
X1C-X1A		X1C-N		

See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers
2. One or two primary bushing transformers
3. Primary neutral grounded
4. Primary windings rated phase to neutral voltage
5. Secondary neutral grounded
The neutral bus on the bank must be the same size as the phase wires.
6. Secondary windings rated phase to neutral voltage
7. Do not use to serve 3 wire 3 phase services.

This connection shown may be used to supply 120/208 volt 4 wire wye services from 4 wire wye primary systems, with the calls connected in parallel. The connection from neutral bus to service neutral must be as large as the service neutral.



CADD SYSTEM ONLY

DRAWN
DATE

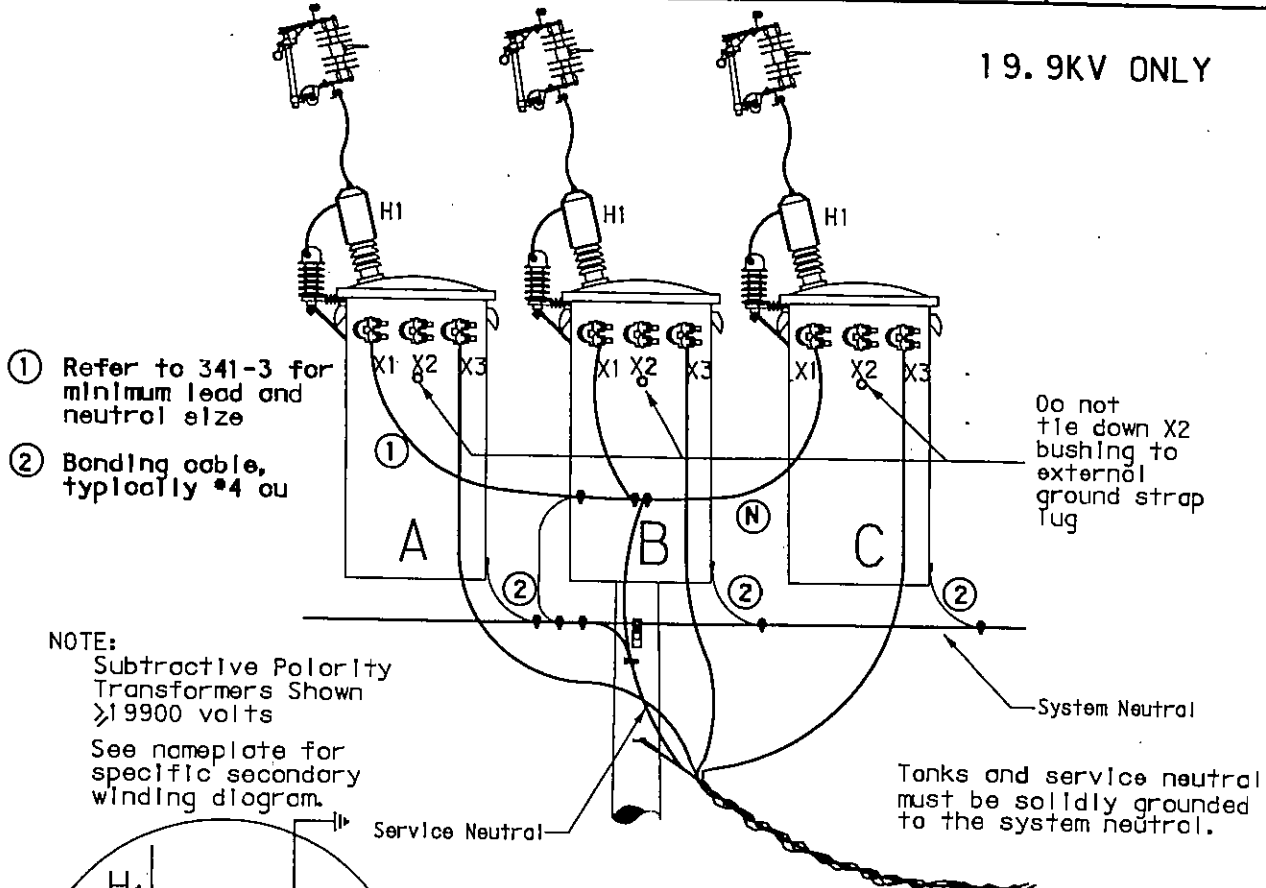
Energy
fast

NO.	REVISION	DATE	BY
1	Secondary Voltage in table changed X1 to X3	02/28/01	
2	Changed note 8 to read 5, note 9 to read 6, added grid	08/28/08	



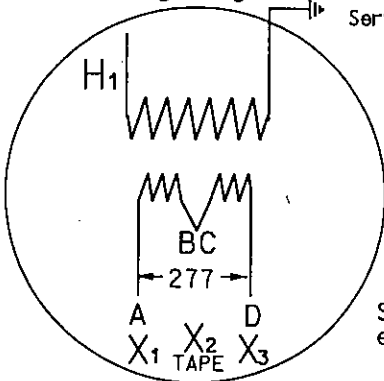
ORIGINAL	JLH	REC	11/17/06
DESIGNED			
DRAWN			
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4 cu

NOTE:
Subtractive Polarity Transformers Shown >19900 volts
See nameplate for specific secondary winding diagram.

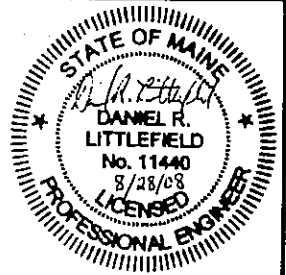


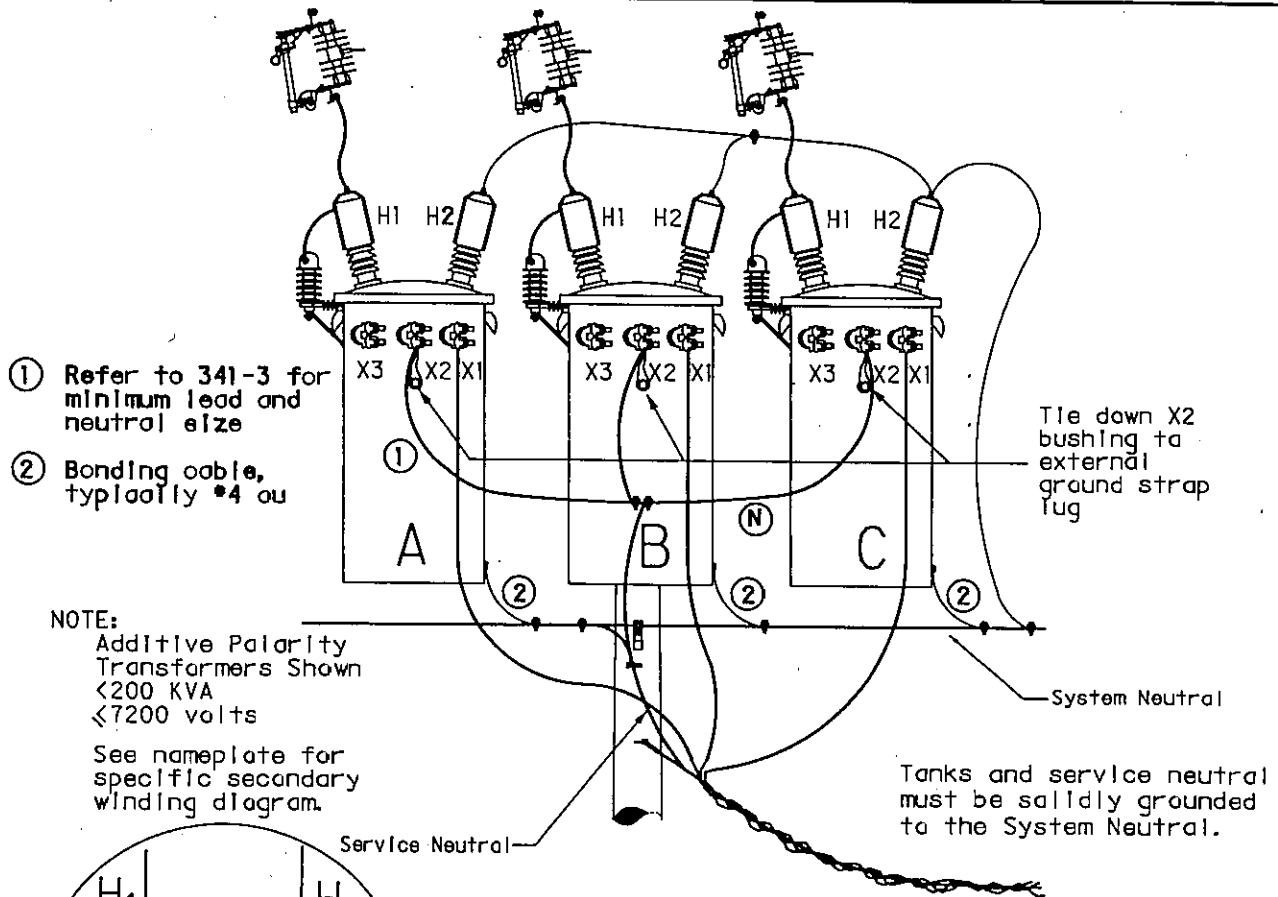
SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X3A-X3B	480	X3A-N	277	139 X 277 19.9 KV ONLY
X3B-X3C		X3B-N		
X3C-X3A		X3C-N		

See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers
2. One or two primary bushing transformers
3. Primary neutral grounded
4. Primary windings rated phase to neutral voltage
5. Secondary neutral grounded
The neutral bus on the bank must be the same size as the phase wires.
6. Secondary windings rated phase to neutral voltage
139 X 277 winding available on 19.9 KV only.
7. Do not use to serve 3 wire 3 phase services.

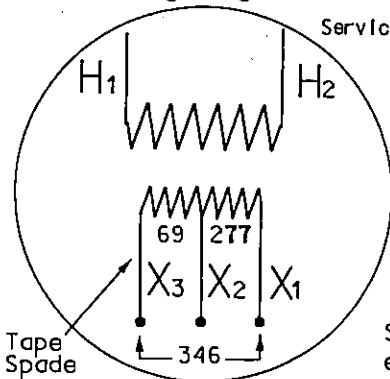
This connection shown may be used to supply 277/480 volt 4 wire wye services from 4 wire wye primary systems, as shown. The connection from neutral bus to service neutral must be as large as the service neutral.





- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4 au

NOTE:
Additive Polarity Transformers Shown
<200 KVA
<7200 volts
See nameplate for specific secondary winding diagram.



277 X 346 Winding

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1A-X1B	480	X1A-N	277	277 X 346
X1B-X1C		X1B-N		
X1C-X1A		X1C-N		

See check list notes starting on p.342-3, 4, & 5 for explanations.

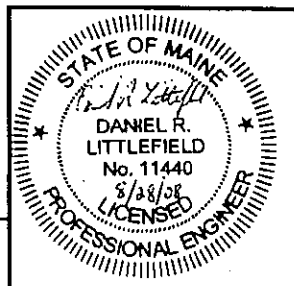
1. Conventional transformers
2. One or two primary bushing transformers
3. Primary neutral grounded
4. Primary windings rated phase to neutral voltage
5. Secondary neutral grounded
The neutral bus on the bank must be the same size as the phase wires.
6. Secondary windings rated phase to neutral voltage
7. Do not use to serve 3 wire 3 phase services.

This connection shown may be used to supply 277/480 volt 4 wire wye services from 4 wire wye primary systems, as shown. The connection from neutral bus to service neutral must be as large as the service neutral.

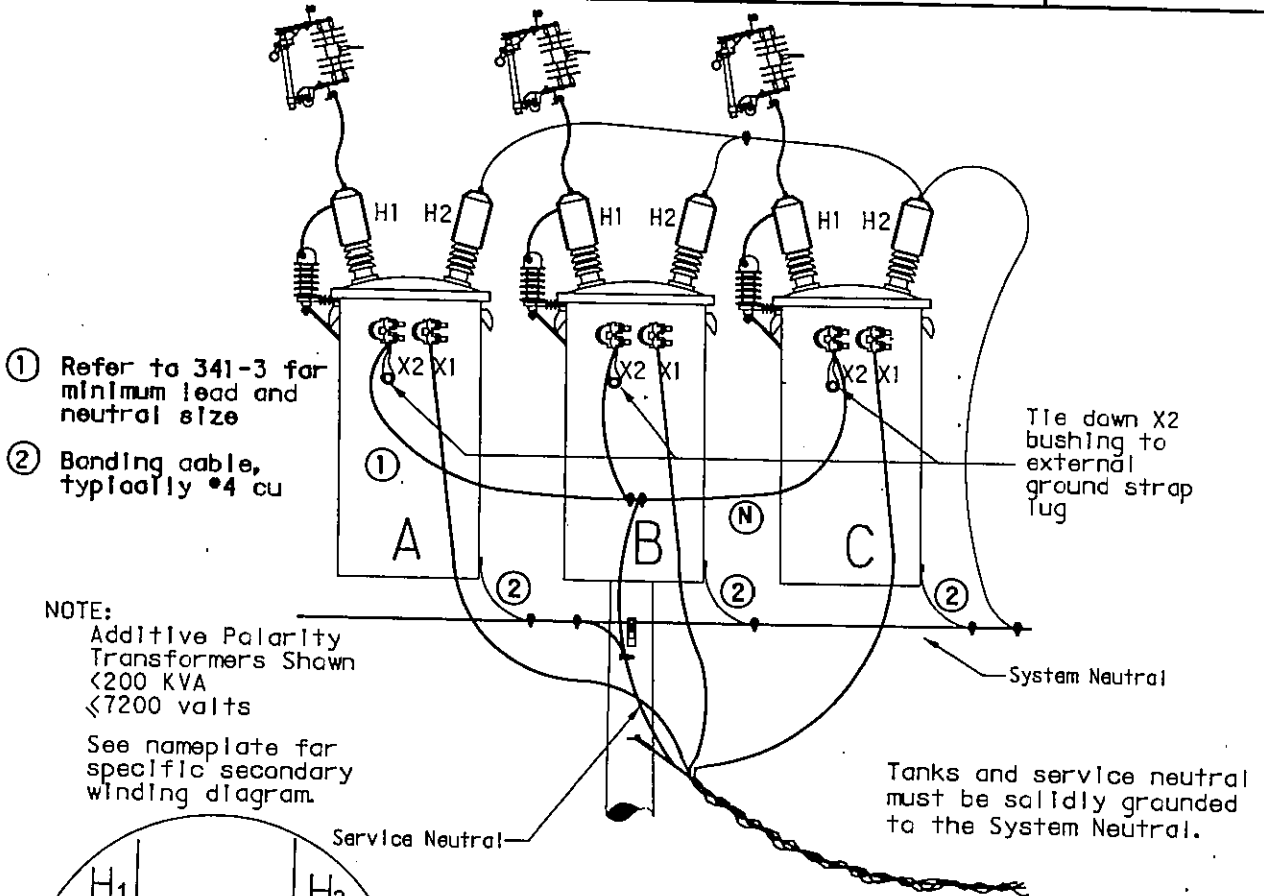
CADD SYSTEM ONLY

DRAWN
DATE

Energy
Fast



NO.	REVISION	DATE	CK.
1	Added 1. change note 8 to 5, corrected text, change note form	08/06/08	

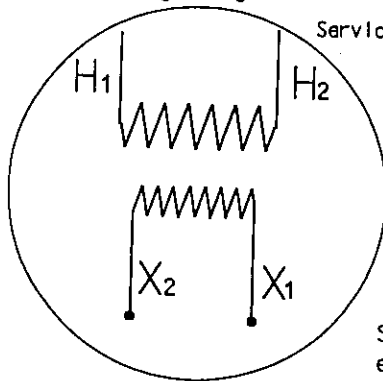


- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4 cu

NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts

See nameplate for
specific secondary
winding diagram.

Tanks and service neutral
must be solidly grounded
to the System Neutral.



277/480 Y Winding

SECONDARY VOLTAGES			NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE	PHASE TO NEUTRAL		
X1A-X1B	480	X1A-N	277/480 Y
X1B-X1C		X1B-N	
X1C-X1A		X1C-N	

See check list notes starting on p. 342-3, 4, & 5 for explanations.

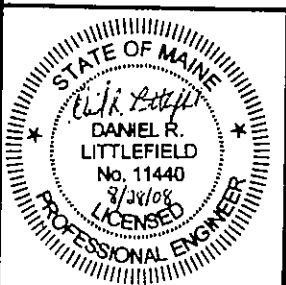
1. Conventional transformers
2. One or two primary bushing transformers
3. Primary neutral grounded
4. Primary windings rated phase to neutral voltage
5. Secondary neutral grounded
The neutral bus on the bank must be the same size as the phase wires.
6. Secondary windings rated phase to neutral voltage
7. Do not use to serve 3 wire 3 phase services.

This connection shown may be used to supply 277/480 volt 4 wire wye services from 4 wire wye primary systems. The connection from neutral bus to service neutral must be as large as the service neutral.



ORIGINAL	JLH	REC	02/06/06
DESIGNED			
DRAWN			
DATE			

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

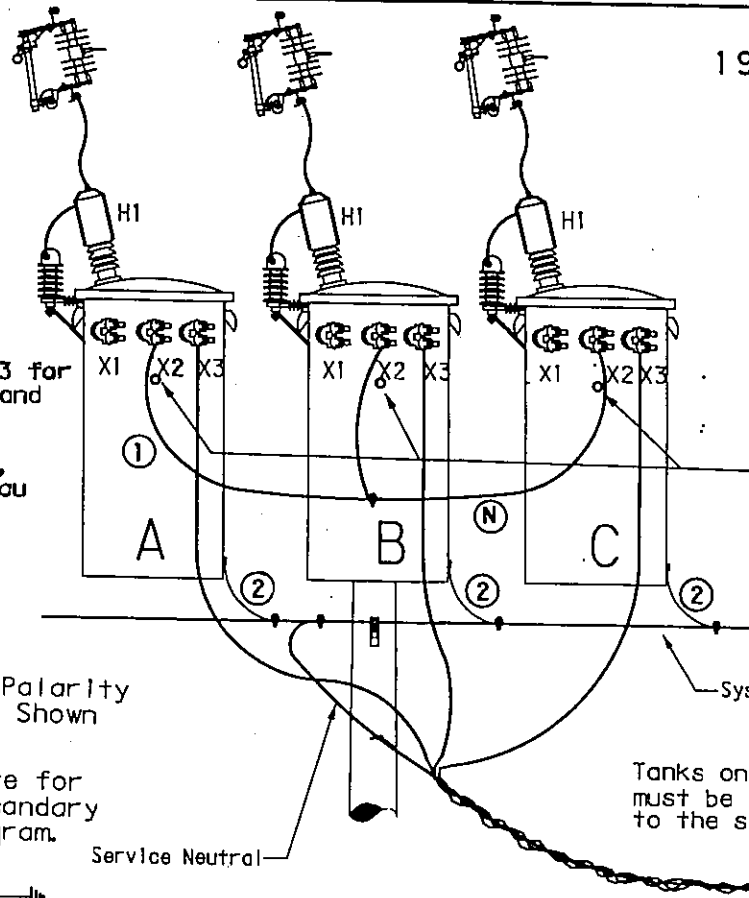




19.9 KV ONLY

REV	REVISION	DATE	CHK.
1	Change Secondary 8100 Trans to XI, X2, X3	07/28/07	
2	Chgd note 8 to 6, corrected text, chgd neut conn	08/14/08	

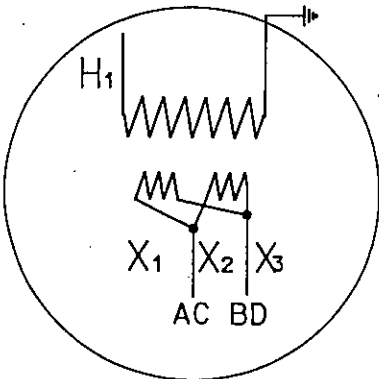
- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4 cu



Do Not Tie down X2 bushing to external ground strap lug

NOTE:
Subtractive Polarity Transformers Shown >19900 volts
See nameplate for specific secondary winding diagram.

Tanks and service neutral must be solidly grounded to the system neutral.



139 X 277 Winding
19.9KV ONLY

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X3A/X3B	X3B/X3C	X3C/X3A	240	139 X 277 19.9 KV ONLY
X3A/N	X3B/N	X3C/N	N/A	

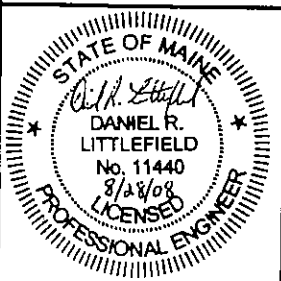
See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers
2. One primary bushing transformer
3. Primary neutral grounded
4. Primary windings rated phase to neutral voltage
5. Secondary neutral insulated (No grounds anywhere on secondary side).
6. Secondary windings rated as shown
139 X 277 windings available on 19.9KV only.
7. Do not use to serve 4 wire 3 phase services.

This connection may be used to supply 240, 480, or 600 volt 3 wire services from 4 wire wye primary systems. See specific DCS page.

The secondary neutral with this connection must be insulated for the full secondary voltage, and not connected to any ground or other neutral. The primary windings of the transformers used for connection must be rated for primary system phase to neutral voltage. The secondary winding must be connected 138.5 for 240 volts, 277 for 480 volts, or 346 for 600 volt service.

The primary neutral bus on the bank must be the same size as the phase wires.



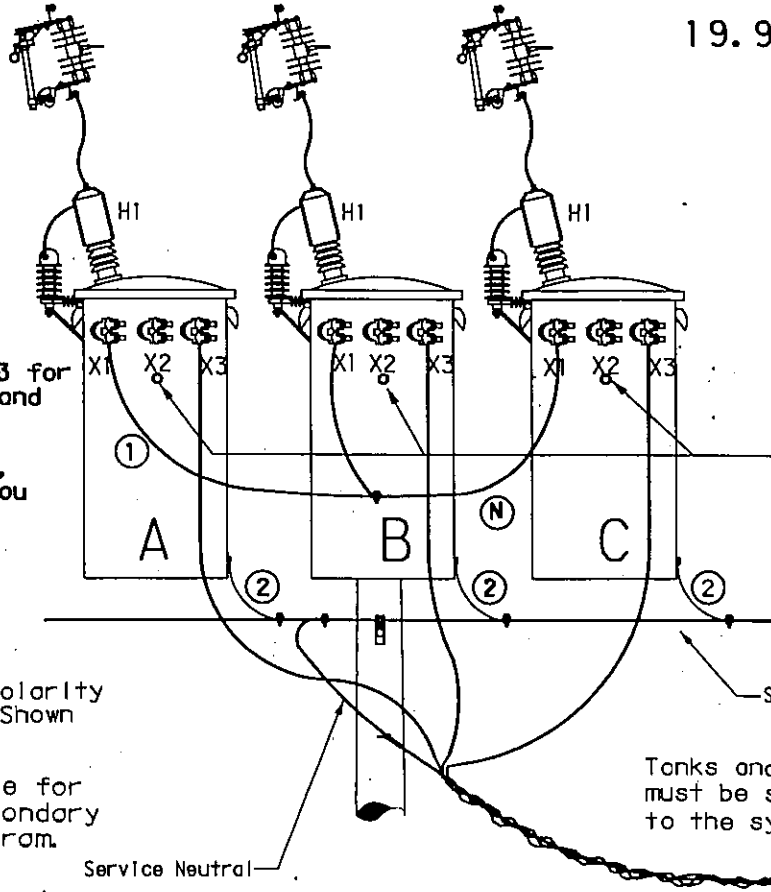
EnergyEast

ORIGINAL	JLH	REC	03/07/06
DESIGNED			
DRAWN			
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

19.9 KV ONLY

- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4 cu



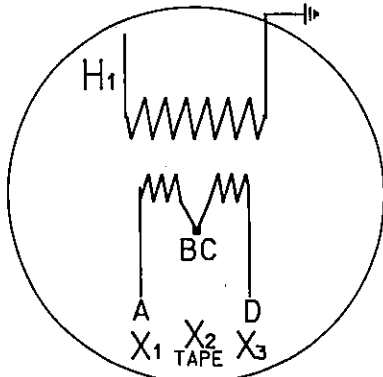
NOTE:
Subtractive Polarity
Transformers Shown
>19900 volts

See nameplate for
specific secondary
winding diagram.

Do Not
tie down X2
bushing to
external
ground strap
lug

Tanks and service neutral
must be solidly grounded
to the system neutral.

Service Neutral



139 X 277
139 X 277 Winding
19.9 KV ONLY

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1 A/X1B	X1B/X1C	X1C/X1A	480	X1A/N X1B/N X1C/N N/A
				139 X 277 19.9 KV ONLY

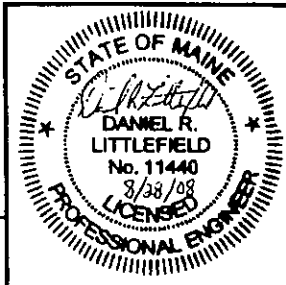
See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers
2. One primary bushing transformer
3. Primary neutral grounded
4. Primary windings rated phase to neutral voltage
5. Secondary neutral insulated (No ground anywhere on secondary side).
6. Secondary windings rated as shown.
139 X 277 winding available on 19.9 KV only.
7. Do not use to serve 4 wire 3 phase services.

This connection may be used to supply 240, 480, or 600 volt 3 wire services from 4 wire wye primary systems. See specific DCS pages.

The secondary neutral with this connection must be insulated for the full secondary voltage, and not connected to any ground or other neutral. The secondary windings must be connected 138.5 for 240 volts, 277 for 480 volts, or 346 for 600 volt service.

The primary neutral bus on the bank must be the same size as the phase wires.



DCS NEW 1/25/08 UN 1/19/12
CADD SYSTEM ONLY

DRAWN
DATE 11/17/06

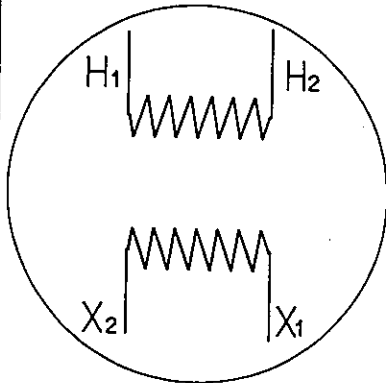
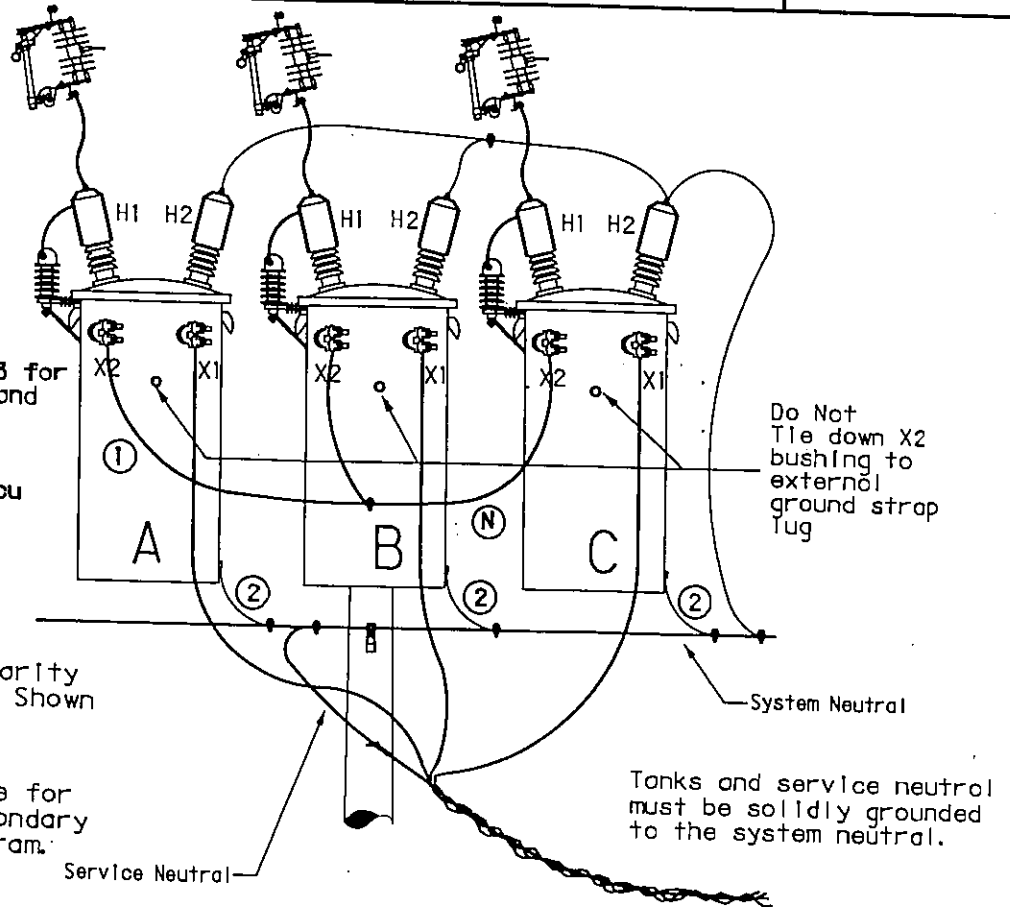
REC
11/17/06



NO.	REVISION	DATE	BY
1	Added Y, corrected text, chgd neutr conn	06/14/06	

- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4 cu

NOTE:
Additive Polarity Transformers Shown
<200 KVA
<7200 volts
See nameplate for specific secondary winding diagram.



277/480 Y Winding

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1A/X1B	X1B/X1C	X1C/X1A	480	X1A/N X1B/N X1C/N N/A
				277/480 Y

See check list notes starting on p.342-3, 4, & 5 for explanations.

- 1. Conventional transformers
- 2. One or two primary bushing transformers
- 3. Primary neutral grounded
- 4. Primary windings rated phase to neutral voltage
- 5. Secondary neutral insulated (No grounds anywhere on secondary side).
- 6. Secondary windings rated phase to neutral voltage.
- 7. Do not use to serve 4 wire 3 phase services.

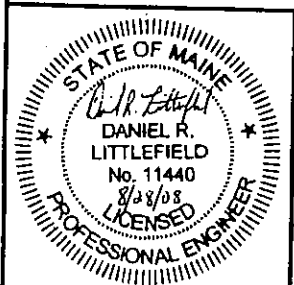
This connection may be used to supply 240, 480, or 600 volt 3 wire services from 4 wire wye primary systems. See specific DCS page.

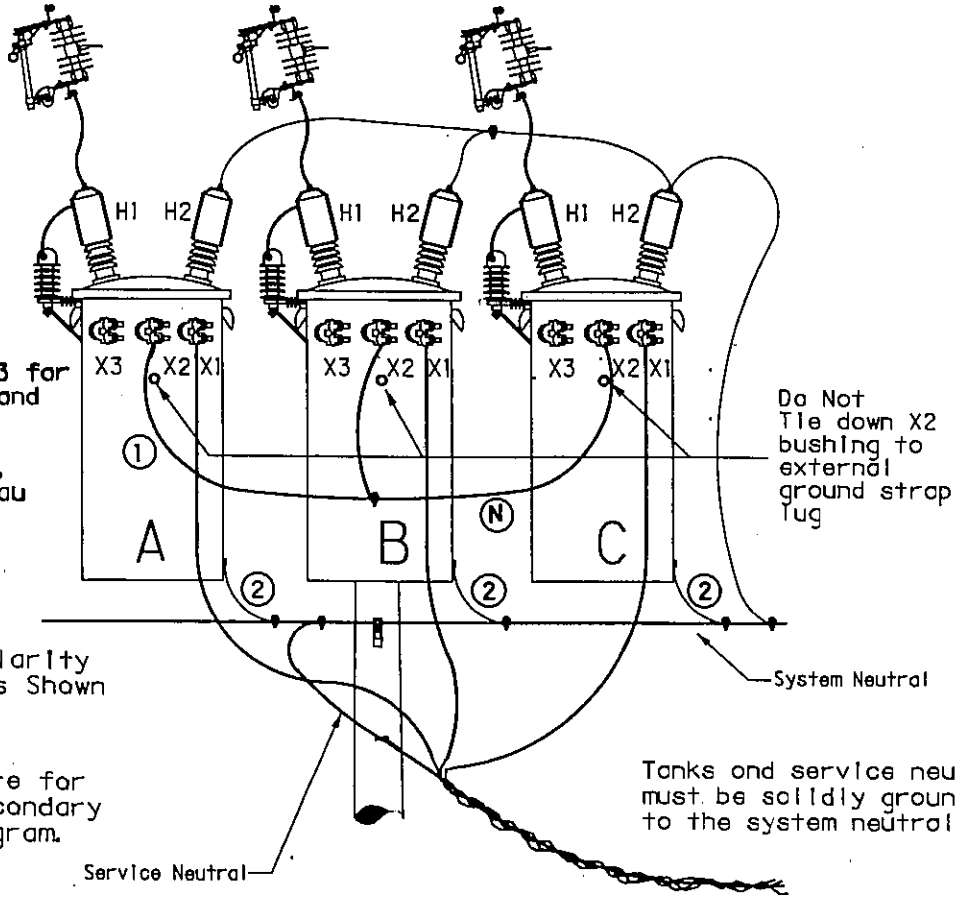
The secondary neutral with this connection must be insulated for the full secondary voltage, and not connected to any ground or other neutral. The secondary winding must be connected 138.5 for 240 volts, 277 for 480 volts, or 346 for 600 volt service.

The neutral bus on the bank must be the same size as the phase wires.

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	JLH
DRAWN	REC
DATE	02/06/06





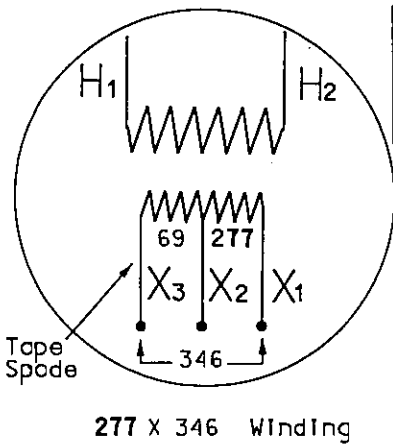
- ① Refer to 341-3 for minimum lead and neutral size
- ② Banding cable, typically #4 au

NOTE:

Additive Polarity Transformers Shown
<200 KVA
<7200 volts

See nameplate for specific secondary winding diagram.

Tanks and service neutral must be solidly grounded to the system neutral.



SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1A/X1B	X1B/X1C	X1C/X1A	480	X1A/N X1B/N X1C/N N/A
				277 X 346

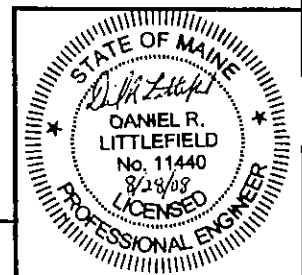
See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers
2. One or two primary bushing transformers
3. Primary neutral grounded
4. Primary windings rated phase to neutral voltage
5. Secondary neutral insulated (No ground anywhere on secondary side).
6. Secondary windings rated phase to neutral voltage
7. Do not use to serve 4 wire 3 phase services.

This connection may be used to supply 240, 480, or 600 volt 3 wire services from 4 wire wye primary systems. See specific DCS page.

The secondary neutral with this connection must be insulated for the full secondary voltage, and not connected to any ground or other neutral. The primary windings of the transformers used for connection must be rated for primary system phase to neutral voltage. The secondary winding must be connected 138.5 to 240 volts, 277 for 480 volts, or 346 for 600 volt service.

The neutral bus on the bank must be the same size as the phase wires.



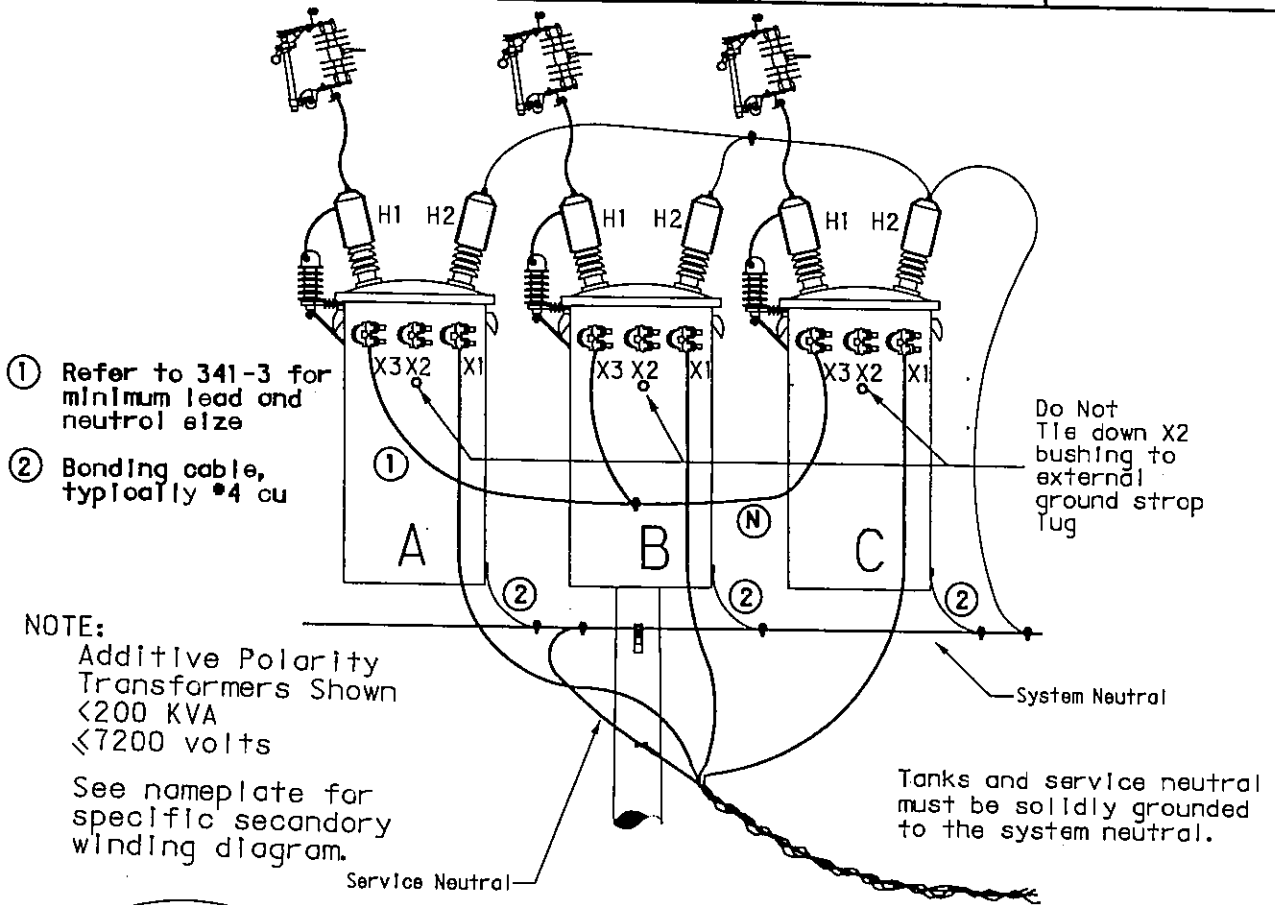
DO NOT REUSE OR RENEW
CADD SYSTEM ONLY

DRAWN
DATE

Energy
TST

Blank table for revision or notes.

REVISION	DATE	BY
1	08/14/08	Corrected text, chgd neut conn

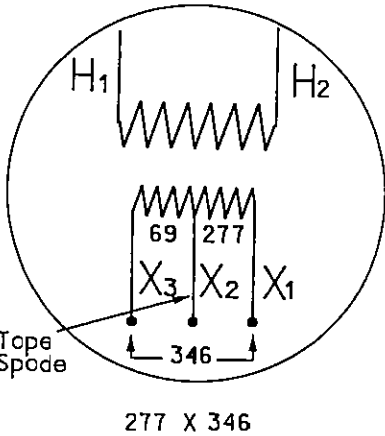


NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts

See nameplate for
specific secondary
winding diagram.

Service Neutral

Tanks and service neutral
must be solidly grounded
to the system neutral.



SECONDARY VOLTAGES					NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE			PHASE TO NEUTRAL		
X1A/X1B	X1B/X1C	X1C/X1A	600	X1A/N X1B/N X1C/N N/A	277 X 346

See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers
2. One or two primary bushing transformers
3. Primary neutral grounded
4. Primary windings rated phase to neutral voltage
5. Secondary neutral insulated (No grounds anywhere on secondary side).
6. Secondary windings rated phase to neutral voltage.
7. Do not use to serve 4 wire 3 phase services.

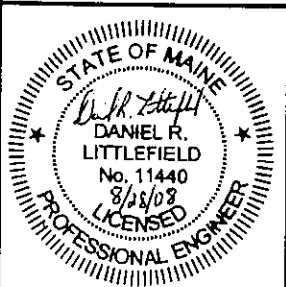
This connection may be used to supply 240, 480, or 600 volt 3 wire services from 4 wire wye primary systems. See specific DCS page.

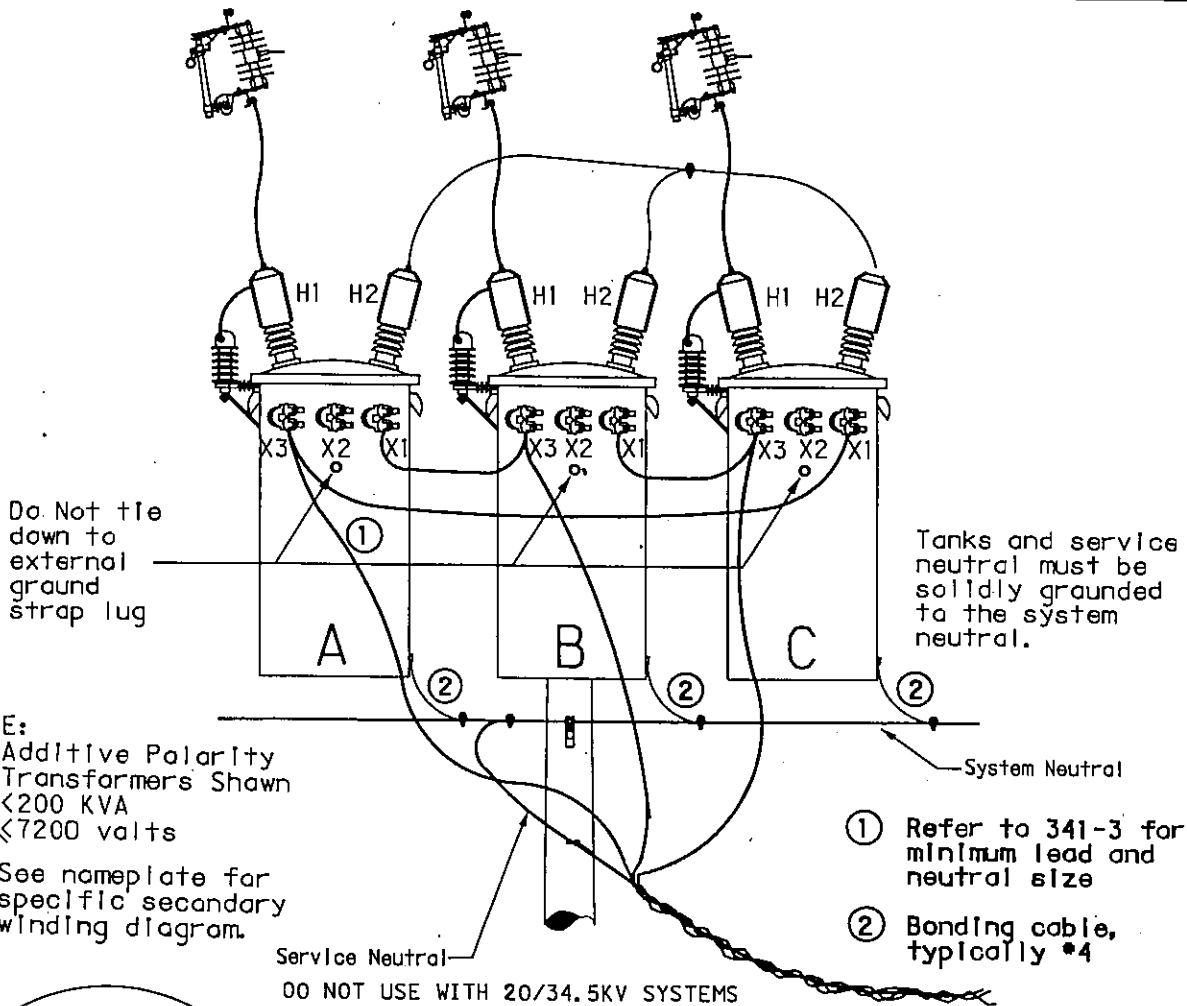
The secondary neutral with this connection must be insulated for the full secondary voltage, and not connected to any ground or other neutral. The primary windings of the transformers used for connection must be rated for primary system phase to neutral voltage. The secondary winding must be connected 138.5 for 240 volts, 277 for 480 volts, or 346 for 600 volt service.

The neutral bus on the bank must be the same size as the phase wires.

ORIGINAL	JLH	REC
DESIGNED		
DRAWN		
DATE	11/22/05	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

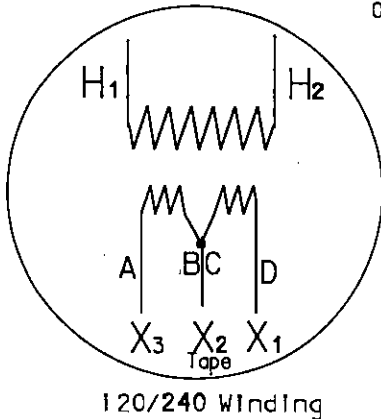




NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.

- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4

Service Neutral
DO NOT USE WITH 20/34.5KV SYSTEMS



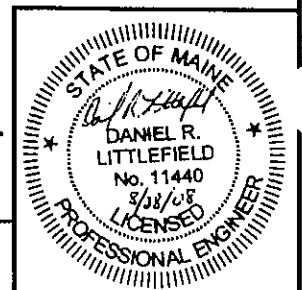
SECONDARY VOLTAGES							NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE				PHASE TO NEUTRAL			
X3A/X3B	X3B/X3C	X3C/X3A	240	X3A/N	X3B/N	X3C/N	N/A
							120/240

See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing transformers.
3. Primary neutral insulated.
4. Primary windings rated phase to neutral voltage.
5. No grounds anywhere on secondary side.
6. Secondary windings rated phase to phase voltage.
7. Do not use on 20/34.5kv.

The wye-delta bank may be used to supply 3 phase 240, 480, or 600 volt power from wye connected 2400/4160 and 7200/12470 overhead primary systems. It should not be used on underground feeds from wye connected primary systems, due to Ferrarresonace concerns.

The primary neutral must be insulated for full line voltage, if it is grounded or connected to the primary system neutral the bank will act as a grounding bank and may burn out a transformer winding during phase to ground faults or primary system load unbalance.

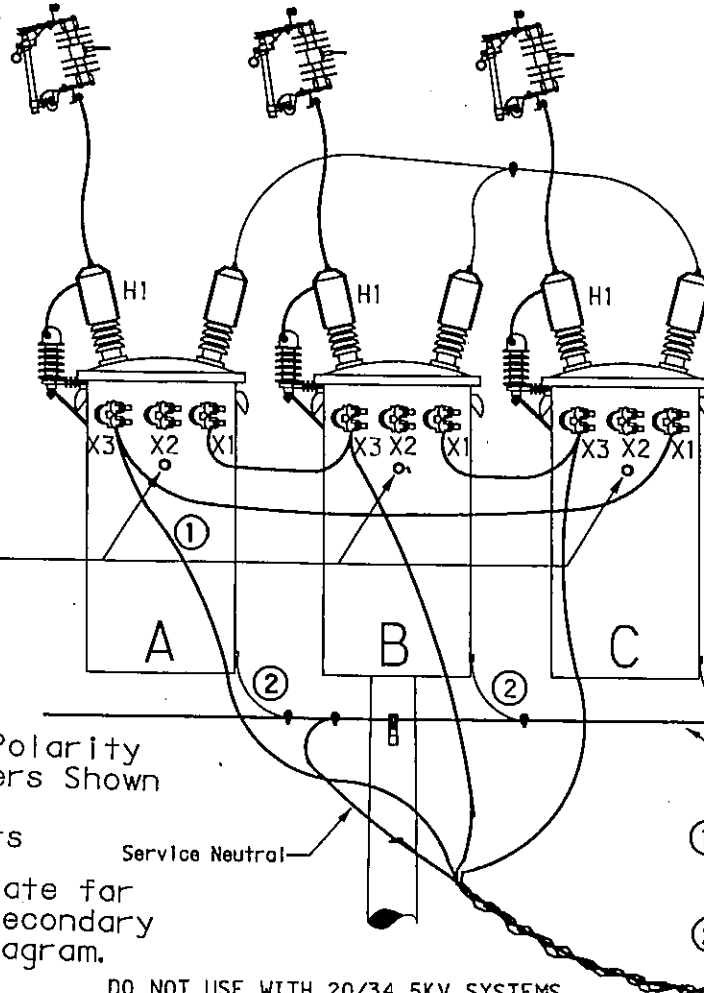


DO NOT USE WITH
CADD SYSTEM ONLY

DRAWN
DATE

Eng
ast

NO.	REVISION	DATE	CHK.
1	corrected text, chgd neut conn	06/28/08	



Do Not tie down to external ground strap lug

Tanks and service neutral must be solidly grounded to the system neutral.

NOTE:

Additive Polarity Transformers Shown
 <200 KVA
 <7200 volts

See nameplate for specific secondary winding diagram.

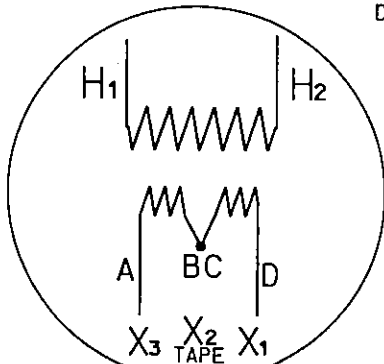
Service Neutral

System Neutral

① Refer to 341-3 for minimum lead and neutral size

② Bonding cable, typically #4

DO NOT USE WITH 20/34.5KV SYSTEMS



240 / 480

SECONDARY VOLTAGES								NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE				PHASE TO NEUTRAL				
X3A/X3B	X3B/X3C	X3C/X3A	480	X3A/N	X3B/N	X3C/N	N/A	240/480
								600*

*SEE DIST. ENG.

See check list notes starting on p.342-3, 4, & 5 for

1. Conventional transformers.
2. Two primary bushing transformers.
3. Primary neutral insulated.
4. Primary windings rated phase to neutral voltage.
5. No grounds anywhere on secondary side.
6. Secondary windings rated phase to phase voltage.
7. Do not use on 20/34.5kv.

The wye-delta bank may be used to supply 3 phase 240, 480, or 600 volt power from wye connected 2400/4160 and 7200/12470 overhead primary systems. It should not be used on underground feeds from wye connected primary systems, due to Ferroresonance concerns.

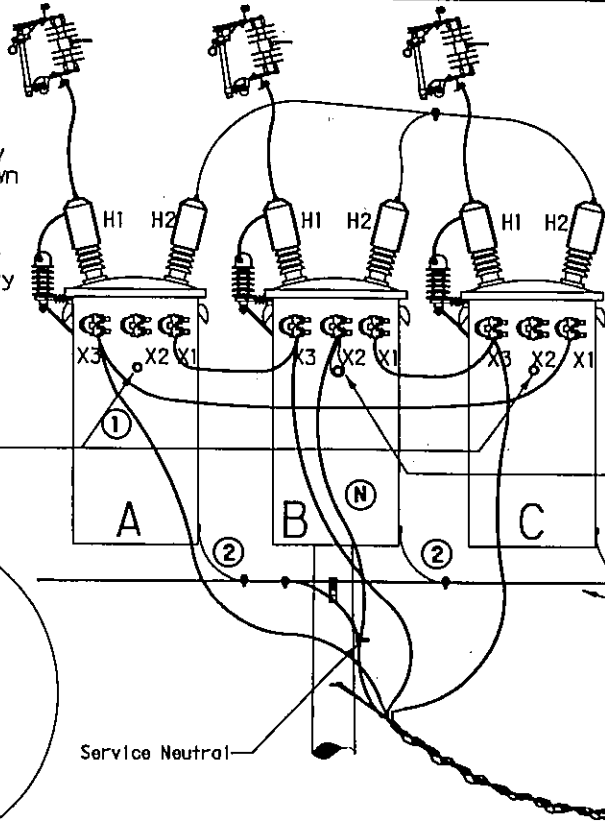
The primary neutral must be insulated for full line voltage. If it is grounded or connected to the primary system neutral the bank will act as a grounding bank and may burn out a transformer winding during phase to ground faults or primary system load unbalance.



ORIGINAL	JLH	REC	11/17/06
DESIGNED		DRAWN	DATE

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

NOTE: •
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.



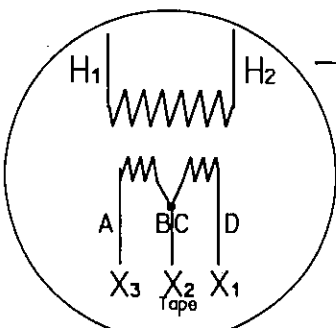
- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4

Do Not tie
down to
external
ground
strap lug

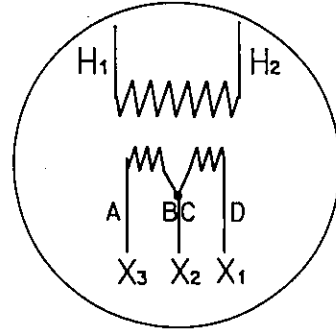
Tie down
to external
ground
strap lug

System Neutral

Tanks and service neutral
must be solidly grounded
to the system neutral.



A + C TRANSFORMER
120/240



B TRANSFORMER
CENTER TAPPED
120/240 VOLT

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE	PHASE TO NEUTRAL			
X3A/X1 A	240	X3A/X2B+X1 C/X2B	208	120/240
X3B/X1 B	240	X3B/X2B	120	120/240
X3C/X1 C	240	X1B/X2B	120	120/240

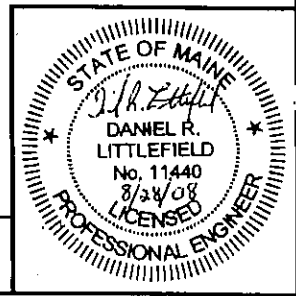
See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing transformers.
3. Primary neutral insulated.
4. Primary windings rated phase to neutral voltage.
5. On one transformer only, the secondary center tap is grounded; no secondary ground on the other two.
6. Secondary windings connected 120/240 on transformer with center tap grounded, connected 240 on the other two.
7. Do not use 20/34.5 kv.
Do not use to serve 3 wire 3 phase services.

This bank is used to supply combination three phase 240 volt and single phase 120/240 volt loads from wye connected 2400/4160 and 7200/12470 overhead primary systems. It should not be used an underground feeds from wye connected primary, due to Ferrarresonance concerns.

The transformer with the midpoint grounded will carry 2/3 of the single phase load plus 1/3 of the three phase load. Each of the other two transformers will carry 1/3 of the single phase load plus 1/3 of the three phase load.

The primary neutral must be insulated for full line voltage, if it is grounded or connected to the primary system neutral the bank will act as a grounding bank and may burn out a transformer winding during phase to ground faults or primary system load unbalance.



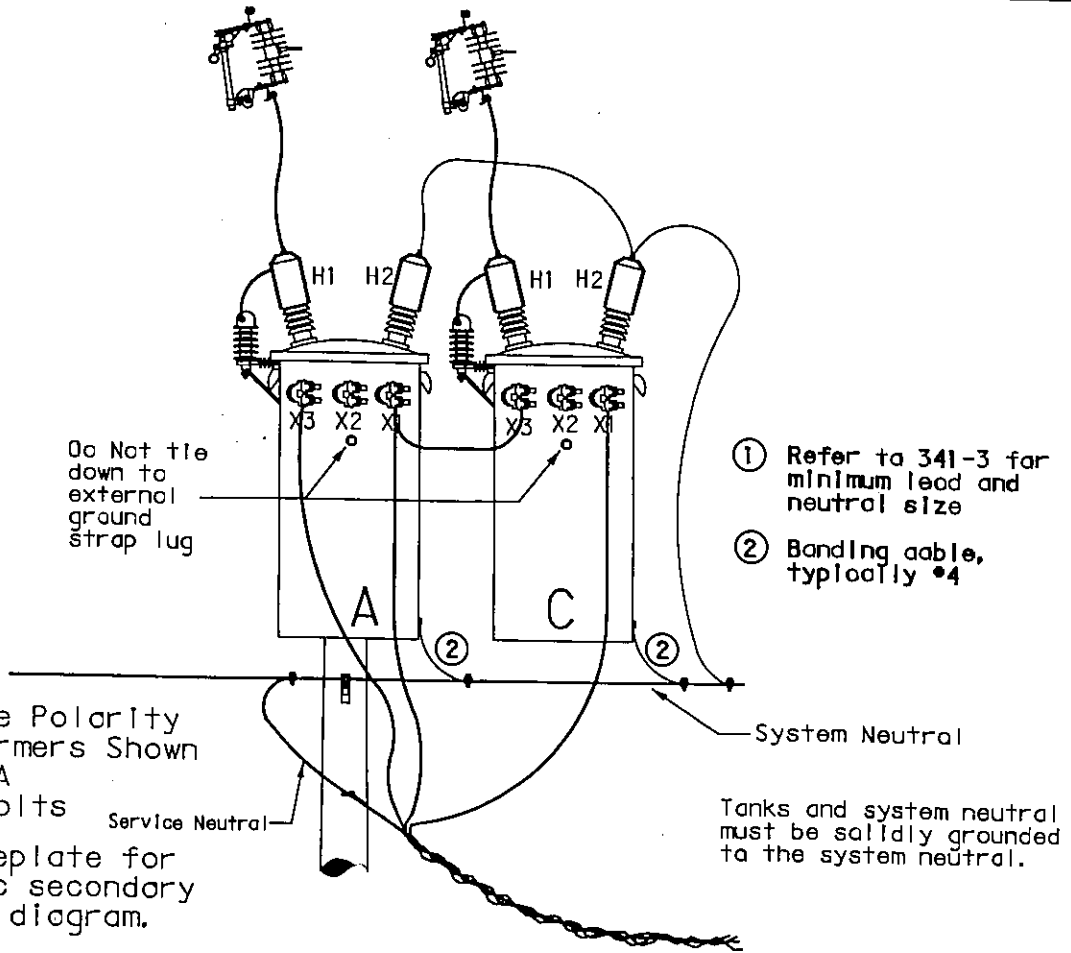
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED BY
DRAWN
DATE 11/17/06

REC
DATE 11/17/06

2
Identical terminals & neutral, connected term. strap must cover
08/14/08

REV	REVISION	DATE	BY
1	Correct text, label terminals, chgd neut conn	08/14/08	



- ① Refer to 341-3 for minimum lead and neutral size
- ② Banding cable, typically #4

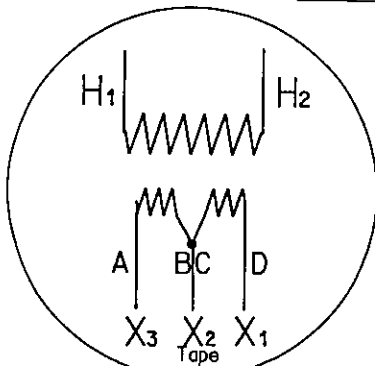
NOTE:
 Additive Polarity
 Transformers Shown
 <200 KVA
 <7200 volts
 See nameplate for
 specific secondary
 winding diagram.

Tanks and system neutral
 must be solidly grounded
 to the system neutral.

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X3A/X1A, X1A/X1C, X1C/X3A	240	X3A/N, X1A/N, X3C/N, X1C/N	N/A	120/240
				600*

* SEE DIST ENG

ORIGINAL	JLH	REC	11/17/06
DESIGNED			
DRAWN			
DATE			



120/240

See check list notes starting on p.342-3, 4, & 5 for explanations.

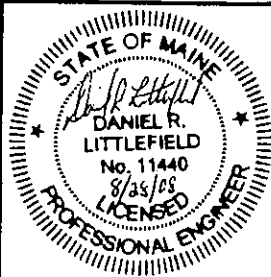
1. Conventional transformers.
2. One or two primary bushing transformers.
3. Primary neutral grounded.
4. Primary windings rated phase to neutral voltage.
5. No grounds anywhere on secondary side.
6. Secondary windings rated phase to phase voltage.

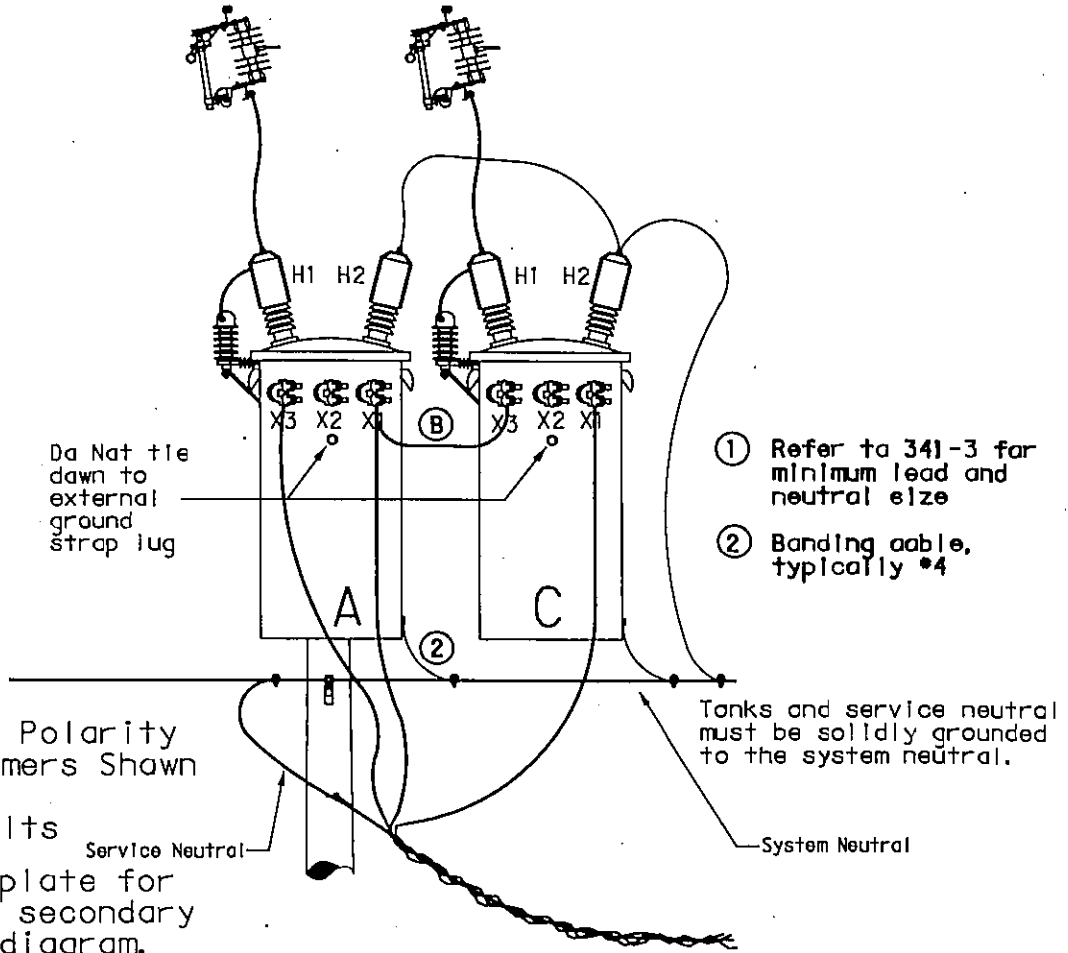
This connection is a modification of the wye-delta bank with three wire secondary and may be used to supply 3 phase 240, 480, and 600 volt power from 2 phases and the neutral of wye connected primary lines.

The primary neutral must be grounded and connected to the primary system neutral to maintain proper voltages on the transformers. The voltages from X3A to X1C will drop more than the voltages on the other two phases when the bank is loaded. Any single phase loads should not be connected from X3A to X1C.

This connection is for existing services only and is not offered for any new service or increased capacity.

THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY





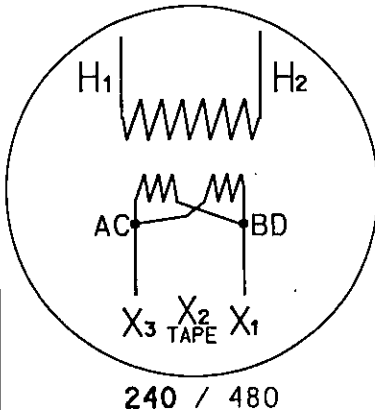
NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.

- ① Refer to 341-3 for minimum lead and neutral size
- ② Banding cable, typically #4

Tanks and service neutral must be solidly grounded to the system neutral.

SECONDARY VOLTAGES					NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE			PHASE TO NEUTRAL		
X3A/X1A, X1A/X1C, X1C/X3A	240	X3A/N, X1A/N, X3C/N, X1C/N	N/A		240/480
					600*

* SEE DIST ENG



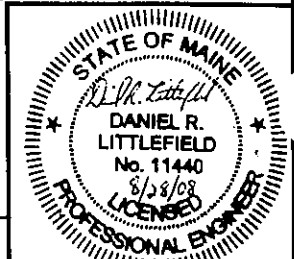
See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. One or two primary bushing transformers.
3. Primary neutral grounded.
4. Primary windings rated phase to neutral voltage.
5. No grounds anywhere on secondary side.
6. Secondary windings rated phase to phase voltage.

This connection is a modification of the wye-delta bank with three wire secondary and may be used to supply 3 phase 240, 480, and 600 volt power from 2 phases and the neutral of wye connected primary lines.

The primary neutral must be grounded and connected to the primary system neutral to maintain proper voltages on the transformers. The voltages from X3A to X1C will drop more than the voltages on the other two phases when the bank is loaded. Any single phase loads should not be connected from X3A to X1C.

This connection is for existing services only and is not offered for any new service or increased capacity.



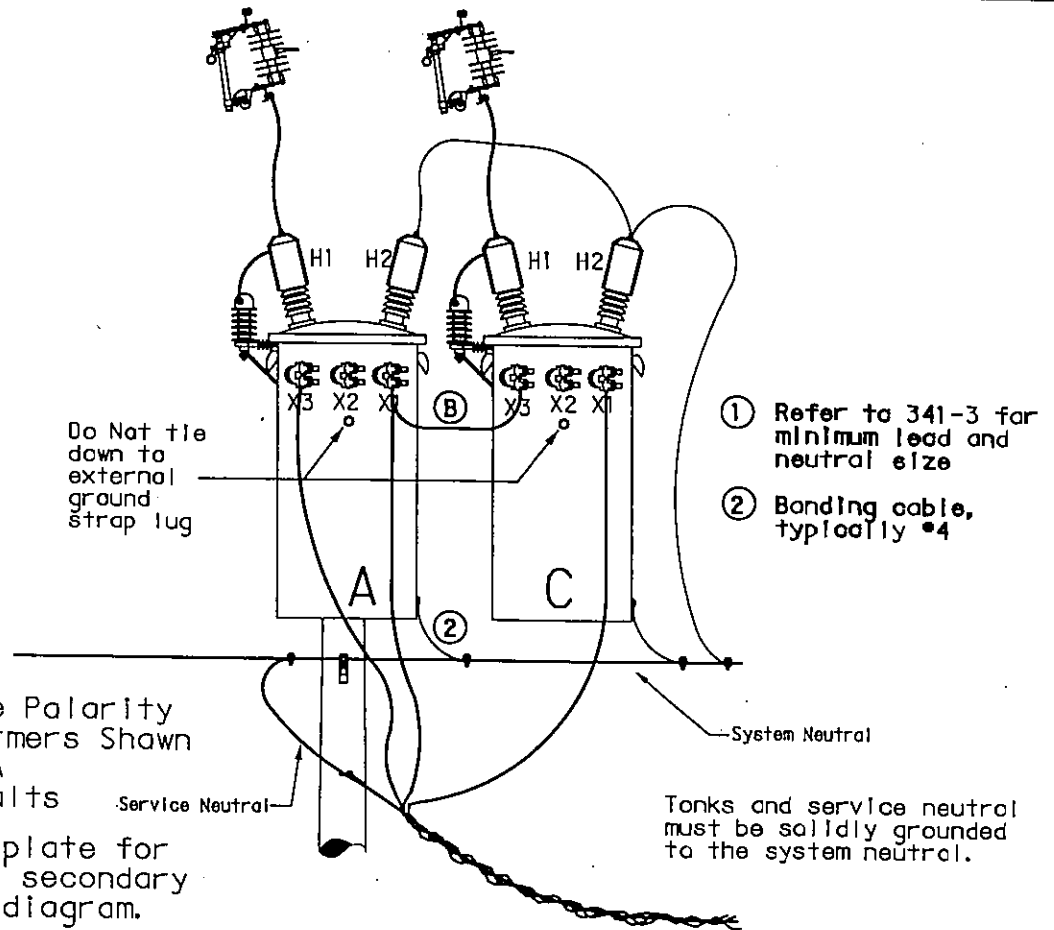
REVISED ON THE
CADD SYSTEM ONLY

DRAWN
DATE 11/16/06
REC

ENERGY
IST



NO.	REVISION	DATE	BY
1	Corrected spelling	06/16/07	
2	Corrected text, changed last paragraph, changed next item	08/28/08	

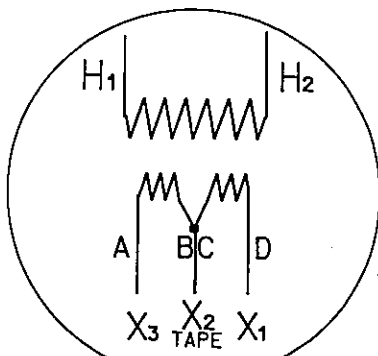


NOTE:
 Additive Polarity
 Transformers Shawn
 <200 KVA
 <7200 volts
 See nameplate for
 specific secondary
 winding diagram.

SECONDARY VOLTAGES			NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL	
X3A/X1A, X1A/X1C, X1C/X3A	480	X3A/N, X1A/N, X3C/N, X1C/N	240 / 480
			600*

* SEE DIST ENG

ORIGINAL	JLH	REC	11/17/06
DESIGNED			
DRAWN			
DATE			



240 / 480
 VOLT

See check list notes starting on p. 342-3, 4, & 5 for explanations.

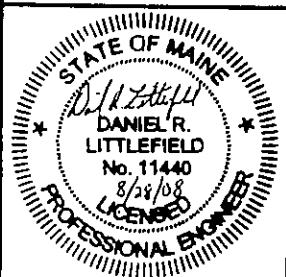
1. Conventional transformers.
2. One or two primary bushing transformers.
3. Primary neutral grounded.
4. Primary windings rated phase to neutral voltage.
5. No grounds anywhere on secondary side.
6. Secondary windings rated phase to phase voltage.

This connection is a modification of the wye-delta bank with three wire secondary and may be used to supply 3 phase 240, 480, and 600 volt power from 2 phases and the neutral of wye connected primary lines.

The primary neutral must be grounded and connected to the primary system neutral to maintain proper voltages on the transformers. The voltages from X3A to X1C will drop more than the voltages on the other two phases when the bank is loaded. Any single phase loads should not be connected from X3A to X1C.

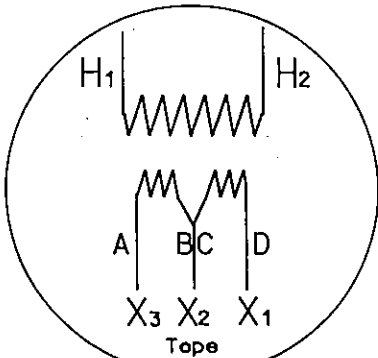
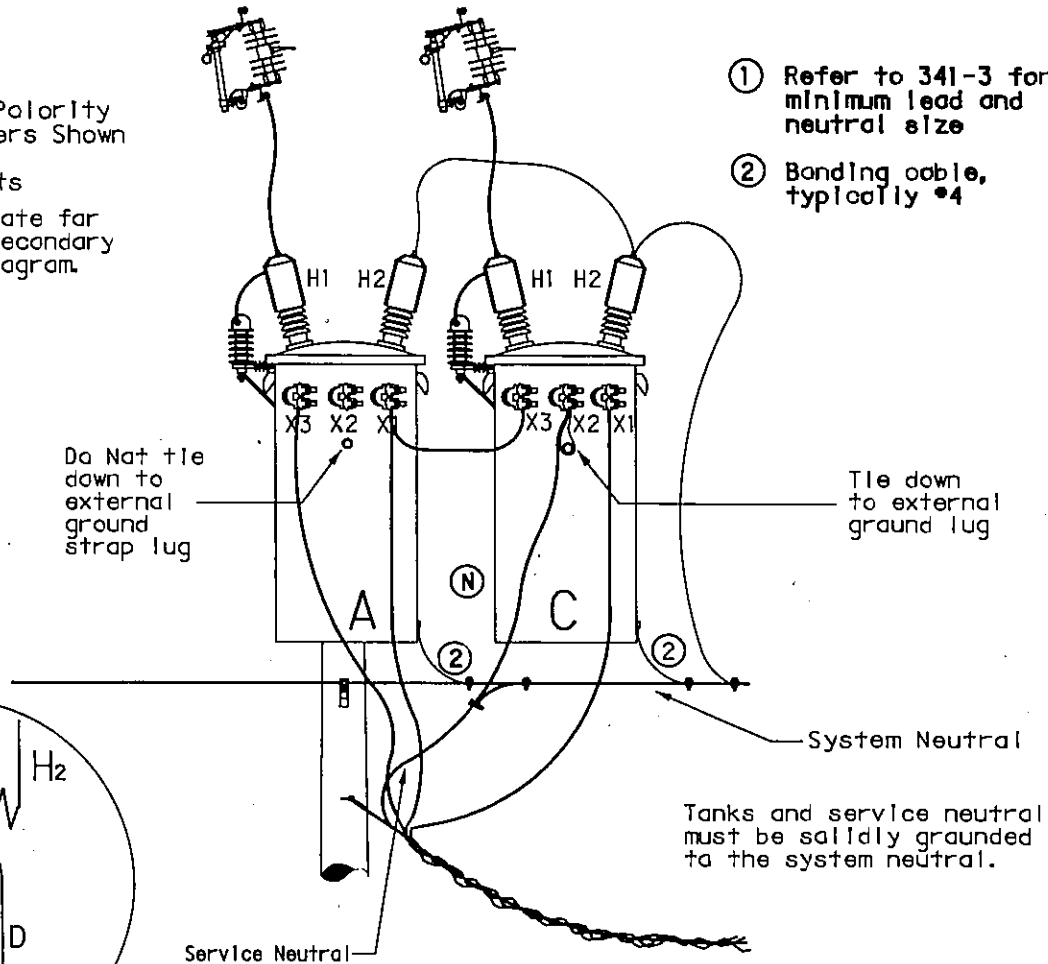
This connection is for existing services only and is not offered for any new service or increased capacity.

THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY

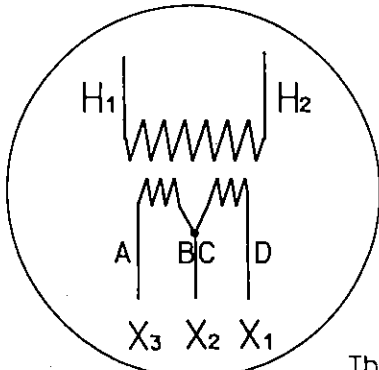


NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.

- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4



A TRANSFORMER
120/240 VOLT



C TRANSFORMER
120/240 VOLT

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X3A/X1A	240	X3A/X2C	208	120/240
X3C/X1C	240	X1A/X2C	120	120/240
X1A/X3A	240	X1C/X2C	120	120/240

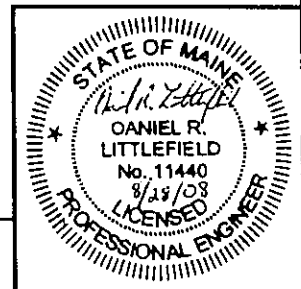
See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. One or two primary bushing transformers.
3. Primary neutral grounded.
4. Primary windings rated phase to neutral voltage.
5. On one transformer, the secondary center tap is grounded. No secondary ground on the other.
6. Secondary windings connected 120/240 on a transformer with center tap grounded, connected 240 on the other.
7. Do not use to serve 3 wire 3 phase services.

This bank is used to supply combination three phase 240 volt and single phase 120/240 volt loads from 2 phase wires and the neutral of wye connected primary systems.

The transformer with the midpoint grounded will carry all of the single phase load plus 58% of the three phase load. The other transformer will carry 58% of the three phase load. The transformer with midpoint grounded may be much larger than the other transformer.

This connection is for existing services only and is not offered for any new service or increased capacity.



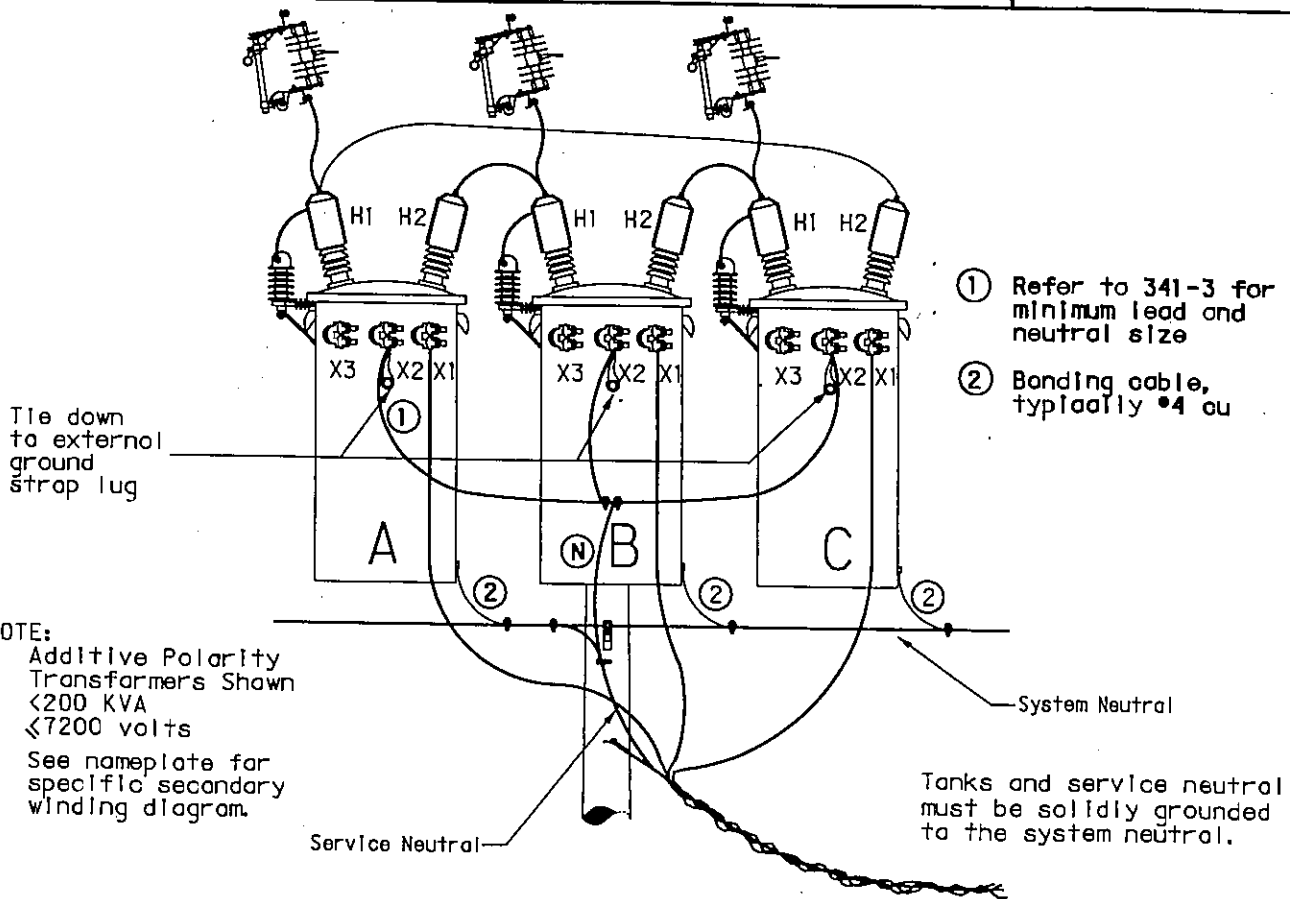
BE REVISION UN THE
CADD SYSTEM ONLY

DRAWN
DATE 11/17/06
REC

ENGR
RST

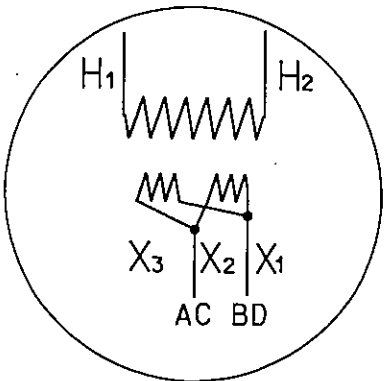
2/Change note 7, corrected text, labelled 08/15/08
Terminals & quad neutral conn

REV	REVISION	DATE	BY
1	Changed note 1, corrected text, label good neutral conn	08/15/08	



- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4 cu

NOTE:
 Additive Polarity Transformers Shown
 <200 KVA
 <7200 volts
 See nameplate for specific secondary winding diagram.



SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1A-X1B	208	X1A-N	120	120/240
X1B-X1C		X1B-N		
X1C-X1A		X1C-N		

See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers
2. Two primary bushing transformers
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage
5. Secondary neutral grounded
6. Secondary windings rated phase to neutral voltage
7. Do not use to serve 3 wire to 3 phase services.

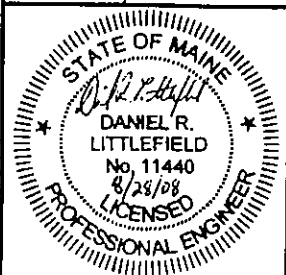
This connection may be used to supply 120/208 volt 4 wire wye and 277/480 volt, 4 wire wye services from 4 wire wye primary systems. See specific OCS page.

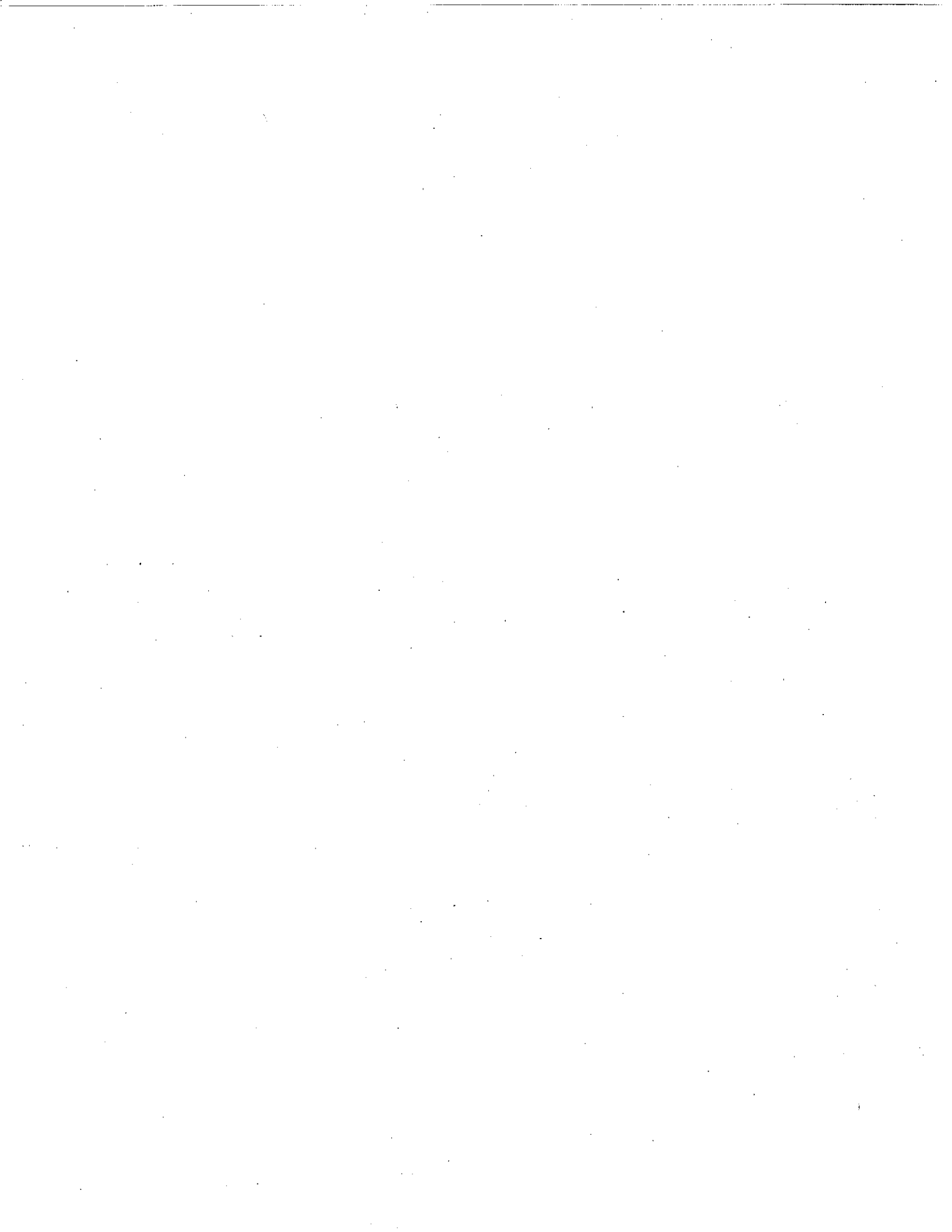
The secondary shown is for 120/208 volt service, with the coils connected in parallel. For 277/480 volt service, the transformers will have 277 volt secondary windings. The neutral bus on the bank must be the same size as the phase wires.

The connection from neutral bus to service neutral must be as large as the service neutral.

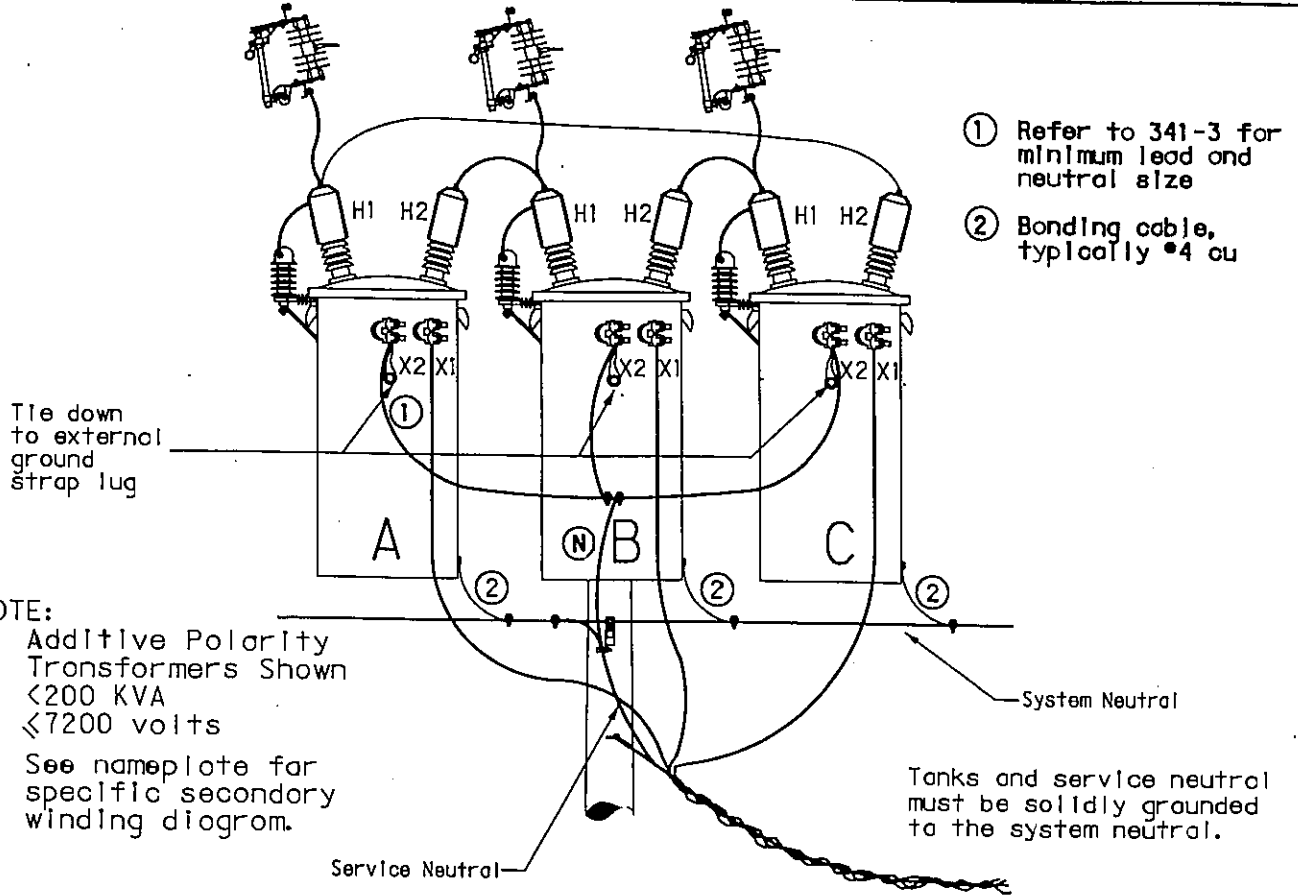
DESIGNED	REC	DATE
JLH		11/21/05

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





REV	DATE	BY	DESCRIPTION
1	08/15/08		Chgd note 1, corrected text, label quad neutral conn



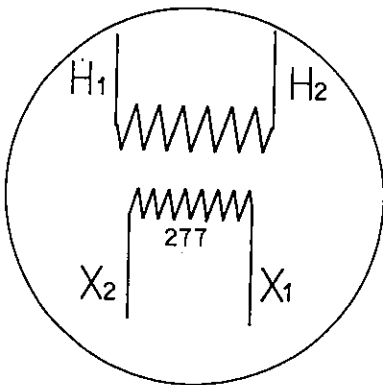
- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4 cu

NOTE:

Additive Polarity Transformers Shown
 <200 KVA
 <7200 volts

See nameplate for specific secondary winding diagram.

Tanks and service neutral must be solidly grounded to the system neutral.



277/480 Y VOLT

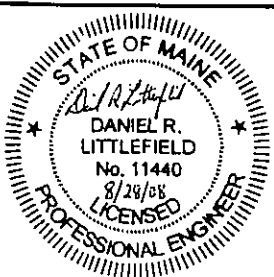
SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1A-X1B	480	X1A-N	277	277/480 Y
X1B-X1C		X1B-N		
X1C-X1A		X1C-N		

See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers
2. Two primary bushing transformers
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage
5. Secondary neutral grounded
6. Secondary windings rated phase to neutral voltage
7. Do not use to serve 3 wire 3 phase services.

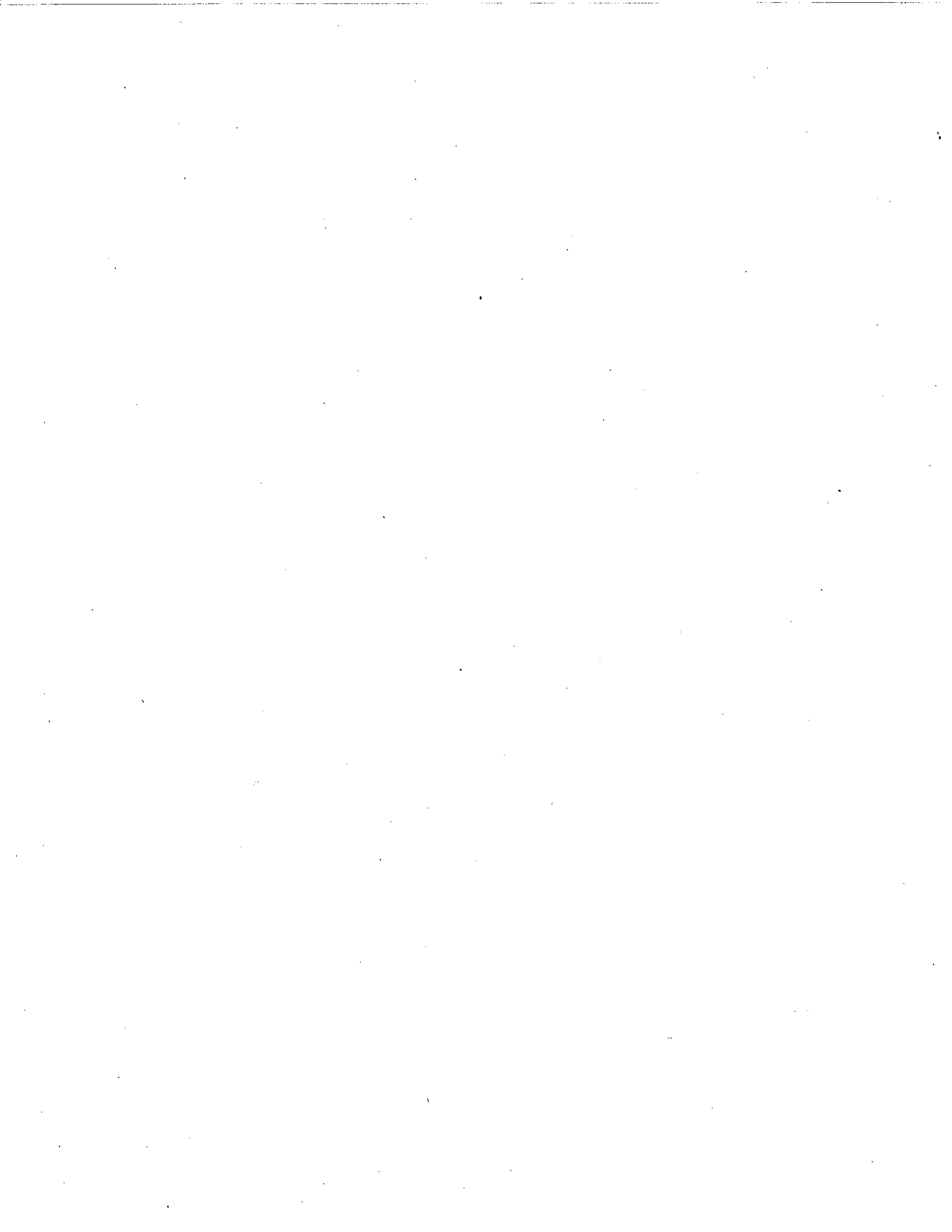
This connection may be used to supply 120/208 volt 4 wire wye and 277/480 volt, 4 wire wye services from 4 wire wye primary systems. See specific OCS page.

The secondary shown is for 277/480 volt service. For 120/208 volt service, the transformers will have 120 volt secondary windings. The neutral bus on the bank must be the same size as the phase wires. The connection from neutral bus to service neutral must be as large as the service neutral.

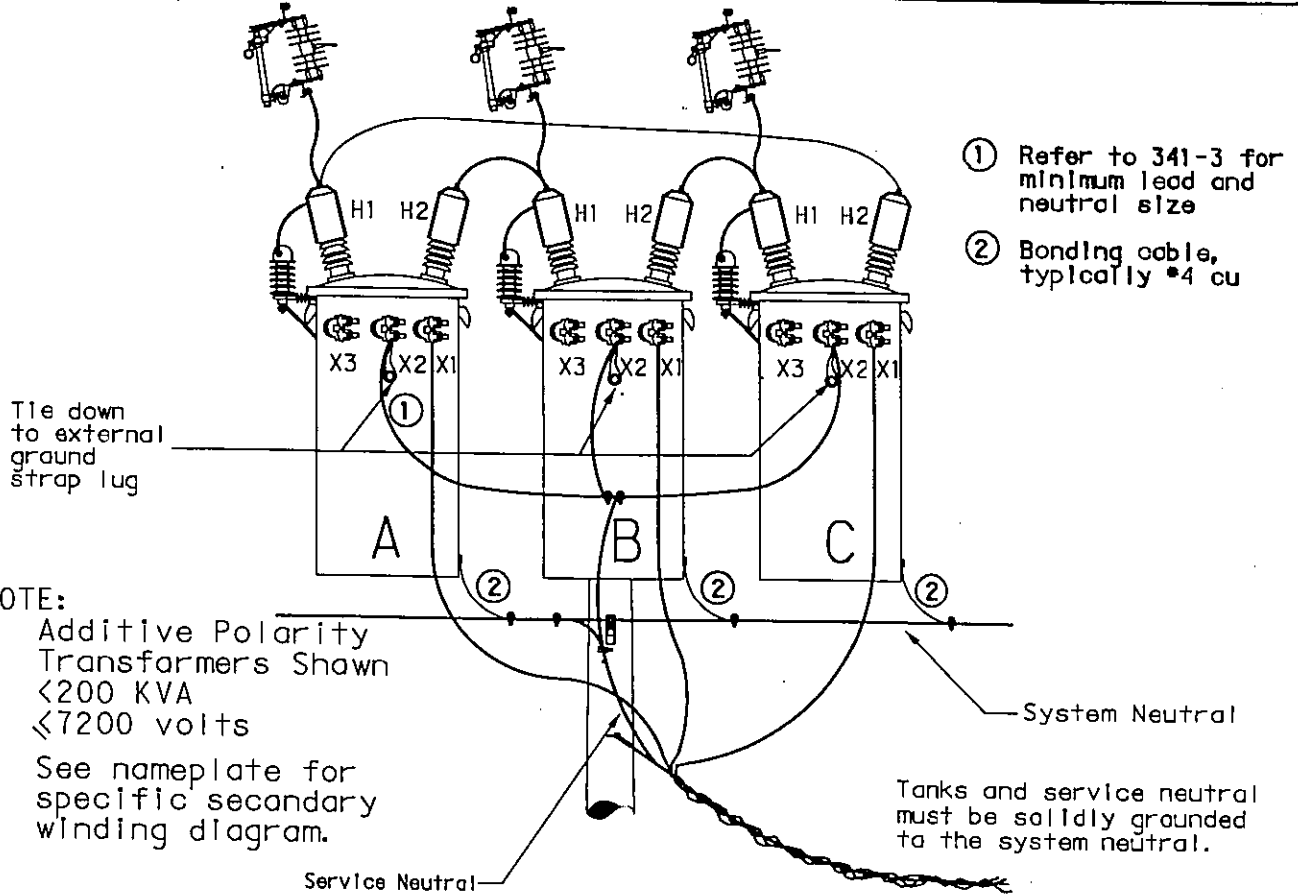


ORIGINAL	JLH	REC	02/06/06
DESIGNED			
DRAWN			
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



REV	REVISION	DATE	CHK.
1	Chgd note 7, corrected text, labelled good neutral	08/18/08	

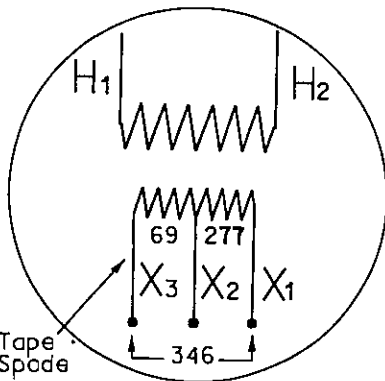


NOTE:

Additive Polarity
 Transformers Shown
 <200 KVA
 <7200 volts

See nameplate for
 specific secondary
 winding diagram.

Tanks and service neutral
 must be solidly grounded
 to the system neutral.



277 X 346 VOLT

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1 A-X1 B	480	X1 A-N	277	277 X 346
X1 B-X1 C		X1 B-N		
X1 C-X1 A		X1 C-N		

See check list notes starting on p.342-3, 4, & 5 for explanations.

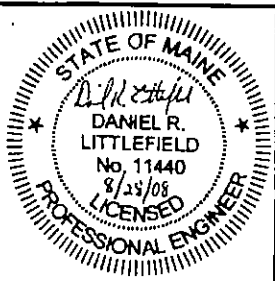
1. Conventional transformers
2. Two primary bushing transformers
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage
5. Secondary neutral grounded
6. Secondary windings rated phase to neutral voltage
7. Do not use to serve 3 wire 3 phase services.

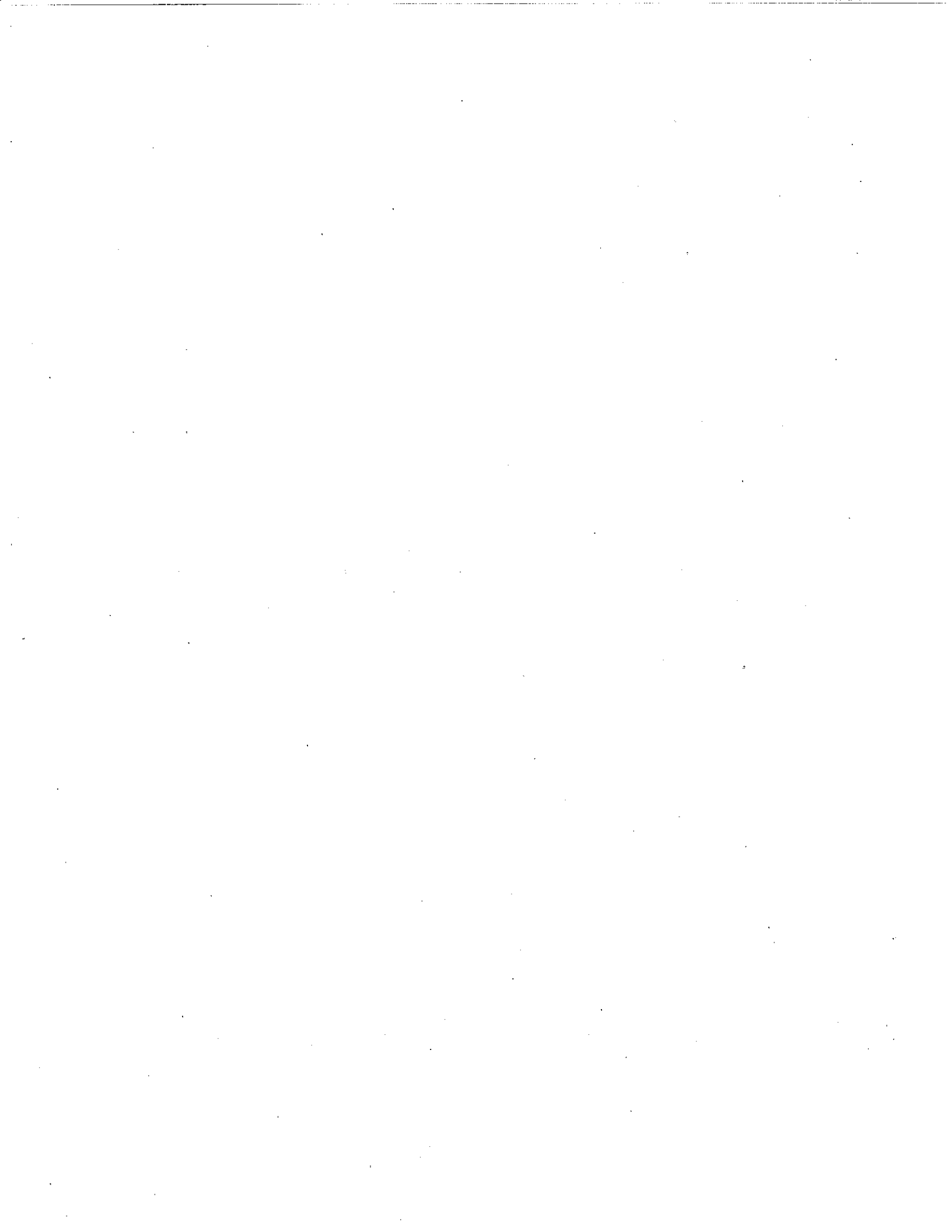
This connection may be used to supply 120/208 volt, 4 wire wye and 277/480 volt, 4 wire wye, services from 4 wire wye primary systems. See specific DCS page.

The secondary shown is for 277/480 volt service. For 120/208 volt service, the transformers will have 120 volt secondary windings. The neutral bus on the bank must be the same size as the phase wires. The connection from neutral bus to service neutral must be as large as the service neutral.

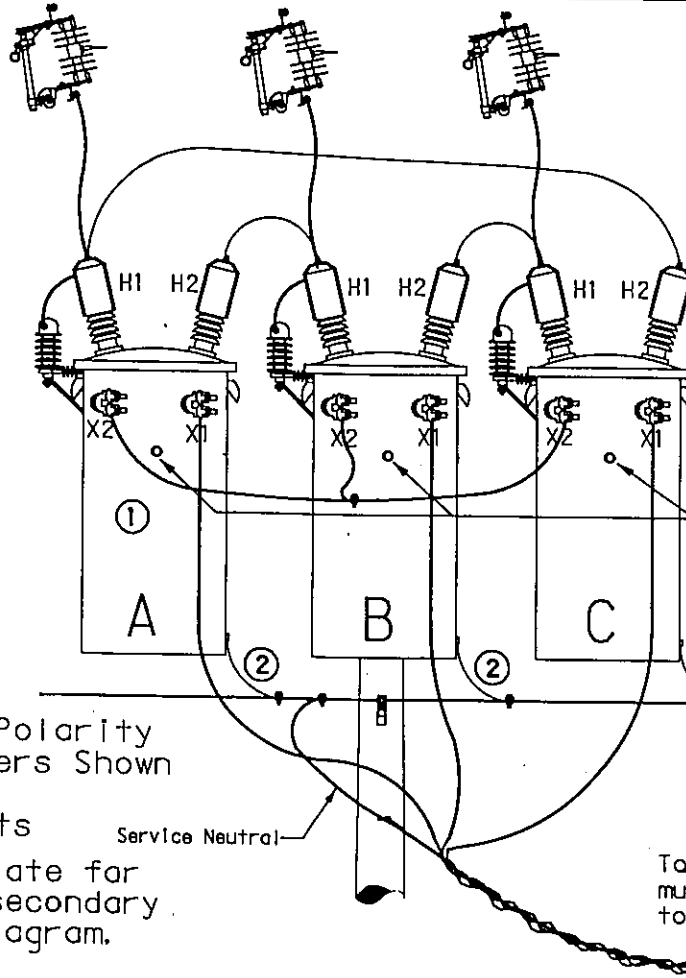
ORIGINAL	JLH	REC	11/28/05
DESIGNED			
DRAWN			
DATE			

**THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY**





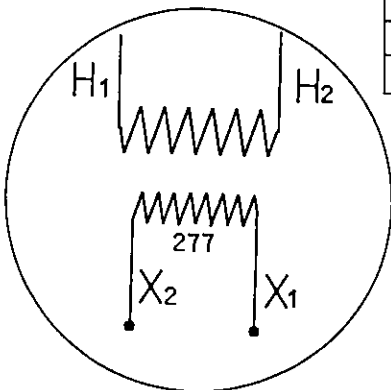
NO.	REVISION	DATE	BY
1	Corrected text, label terminals & neut oom	08/18/08	



- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4

NOTE:
 Additive Polarity
 Transformers Shown
 <200 KVA
 <7200 volts
 See nameplate for
 specific secondary
 winding diagram.

Tanks and service neutral
 must be solidly grounded
 to the system neutral.



277/480 Y

SECONDARY VOLTAGES			NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL	
X1A/X1B, X1B/X1C, X1C/X1A	480	X3A/N, X3B/N, X3C/N	N/A
			277/480 Y

See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing transformers.
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage.
5. Secondary neutral insulated (no grounds anywhere on secondary side).
6. Secondary windings rated phase to neutral voltage.
7. Do not use to serve 4 wire 3 phase services.

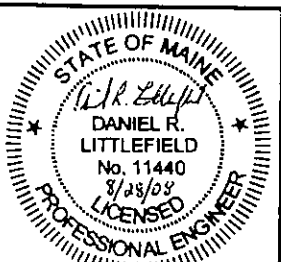
This connection may be used to supply 240 volt, 480 volt, or 600 volt, 3 wire services from 3 wire delta or 4 wire wye primary systems. See specific DCS page.

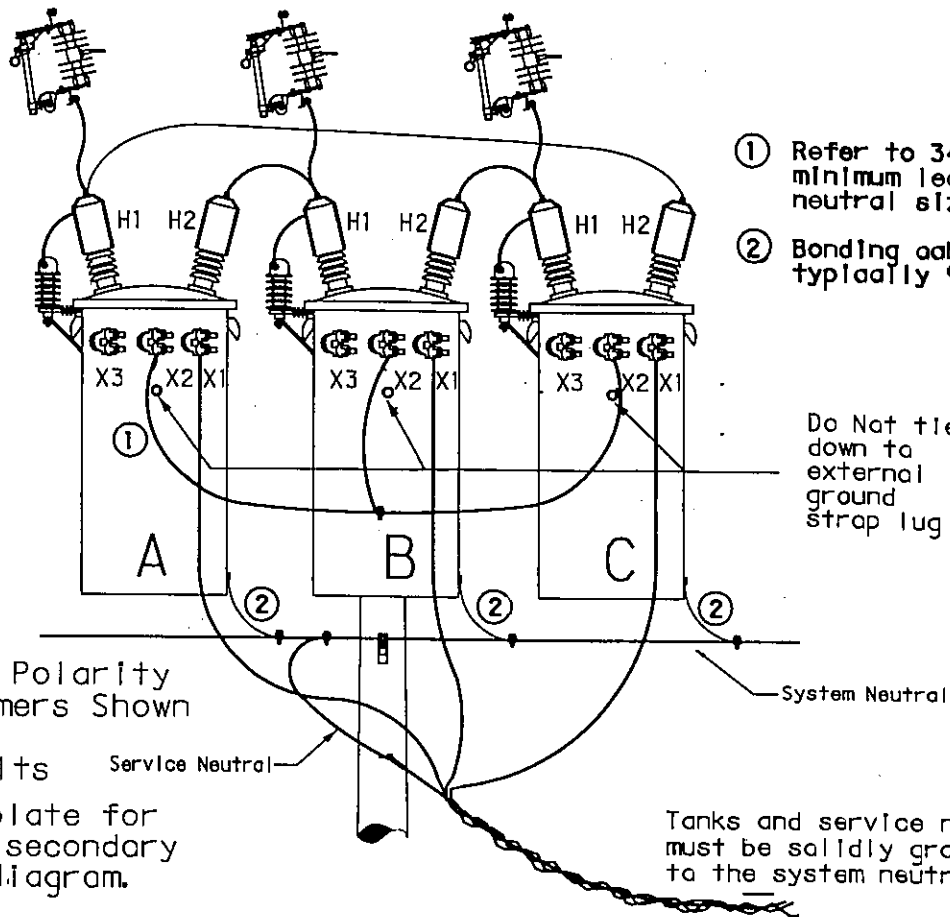
The secondary neutral with this connection must be insulated for the full secondary voltage, and not connected to any ground or other neutral. The secondary windings must be rated 138.5 for 240 volt services, 277 for 480 volt service or 346 for 600 volt service.

The neutral bus on the bank must be the same size as the phase wires.

ORIGINAL	JLH	REC	DATE
			02/06/06

THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY





- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4

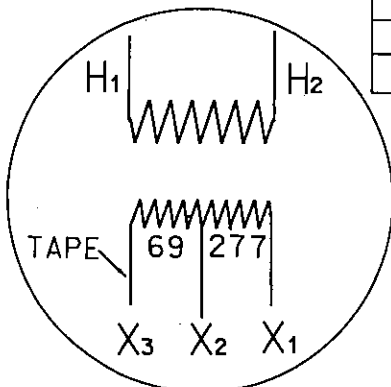
Do Not tie down to external ground strap lug

NOTE:

Additive Polarity Transformers Shown
<200 KVA
<7200 volts

See nameplate for specific secondary winding diagram.

Tanks and service neutral must be solidly grounded to the system neutral.



277 X 346

SECONDARY VOLTAGES		NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE	PHASE TO NEUTRAL	
X1A/X1B, X1B/X1C, X1C/X1A	480	X3A/N, X3B/N, X3C/N N/A
		277 X 346

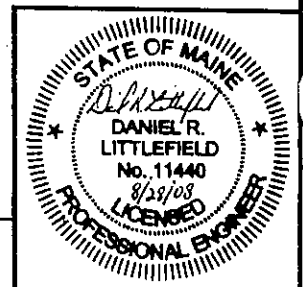
See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing transformers.
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage.
5. Secondary neutral insulated (no grounds anywhere on secondary side).
6. Secondary windings rated phase to neutral voltage.
7. Do not use to serve 4 wire 3 phase services.

This connection may be used to supply 240 volt, 480 volt or 600 volt 3 wire services from 3 wire delta or 4 wire wye primary systems. See specific DCS page.

The secondary neutral with this connection must be insulated for the full secondary voltage, and not connected to any ground or other neutral. The primary windings of the transformers used for this connection must be rated for primary system phase to phase voltage. The secondary windings must be rated 138.5 for 240 volt service, 277 for 480 volt service or 346 for 600 volt service.

The neutral bus on the bank must be the same size as the phase wires.



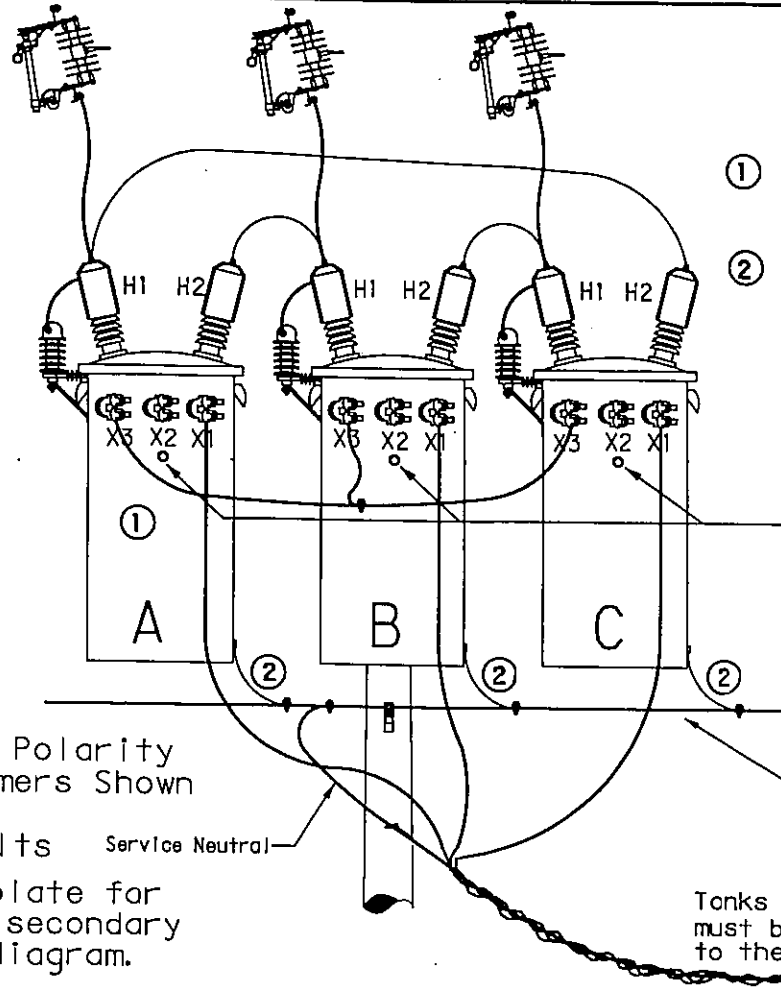
BE REVISED ON THE
CAD SYSTEM ONLY

DATE
DRAWN
DATE

Eng
ast

Blank table for revision tracking.

REV.	REVISION	DATE	BY
1	Corrected text, label terminals, chgd neut conn	07/30/08	



- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4

Do Not tie down to external ground strap lug

NOTE:

Additive Polarity Transformers Shown
 <200 KVA
 <7200 volts

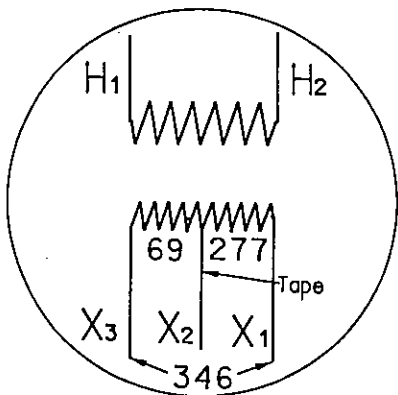
Service Neutral

System Neutral

See nameplate for specific secondary winding diagram.

Tanks and service neutral must be solidly grounded to the system neutral.

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1A/X1B, X1B/X1C, X1C/X1A	600	X3A/N, X3B/N, X3C/N	N/A	277 X 346



277 X 346

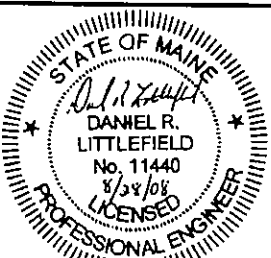
See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing transformers.
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage.
5. Secondary neutral insulated (no grounds anywhere on secondary side).
6. Secondary windings rated phase to neutral voltage.
7. Do not use to serve 4 wire 3 phase services.

This connection may be used to supply 240 volt, 480 volt or 600 volt 3 wire services from 3 wire delta or 4 wire wye primary systems. See specific DCS page.

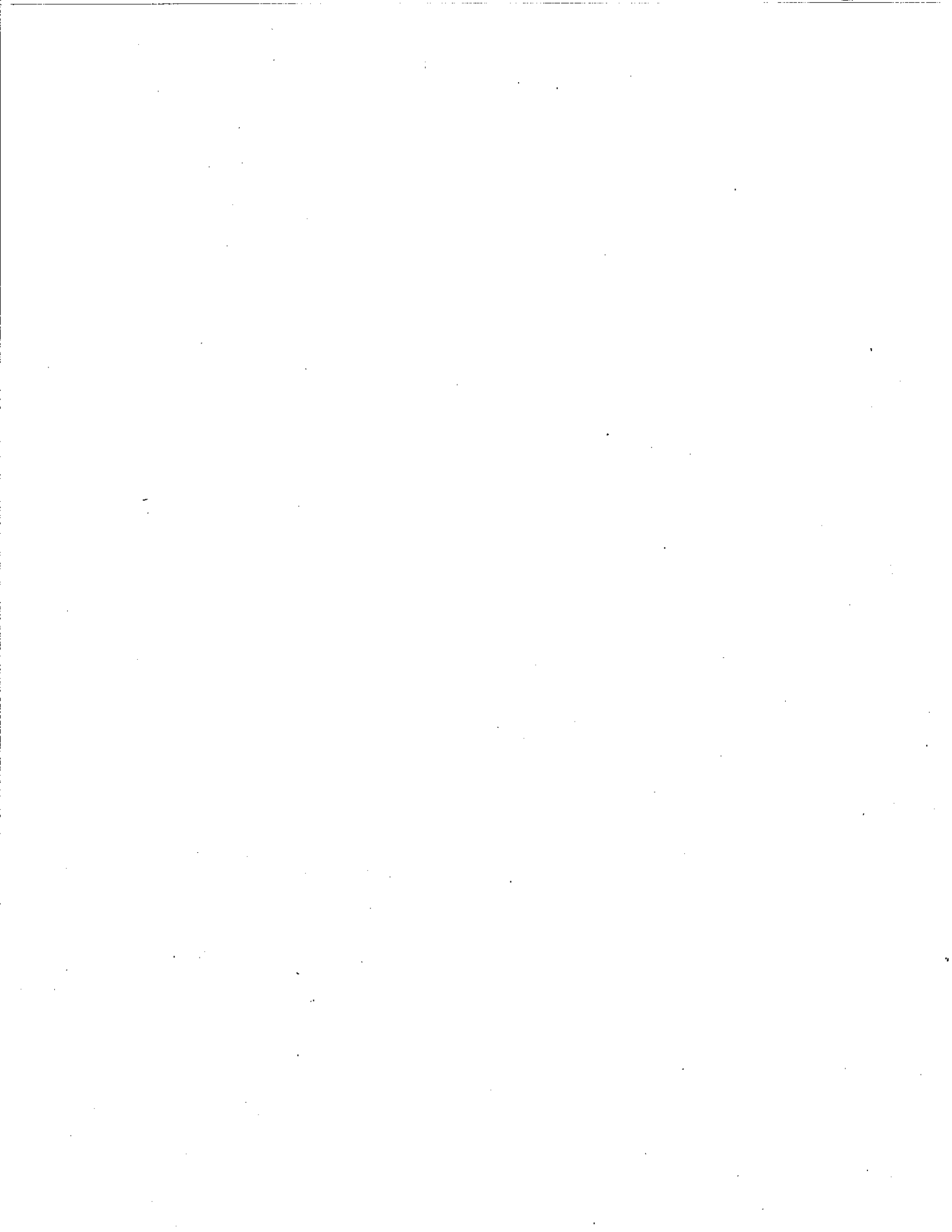
The secondary neutral with this connection must be insulated for the full secondary voltage, and not connected to any ground or other neutral. The primary windings of the transformers used for this connection must be rated for primary system phase to phase voltage. The secondary windings must be rated 138.5 for 240 volt service, 277 for 480 volt service or 346 for 600 volt service.

The neutral bus on the bank must be the same size as the phase wires.

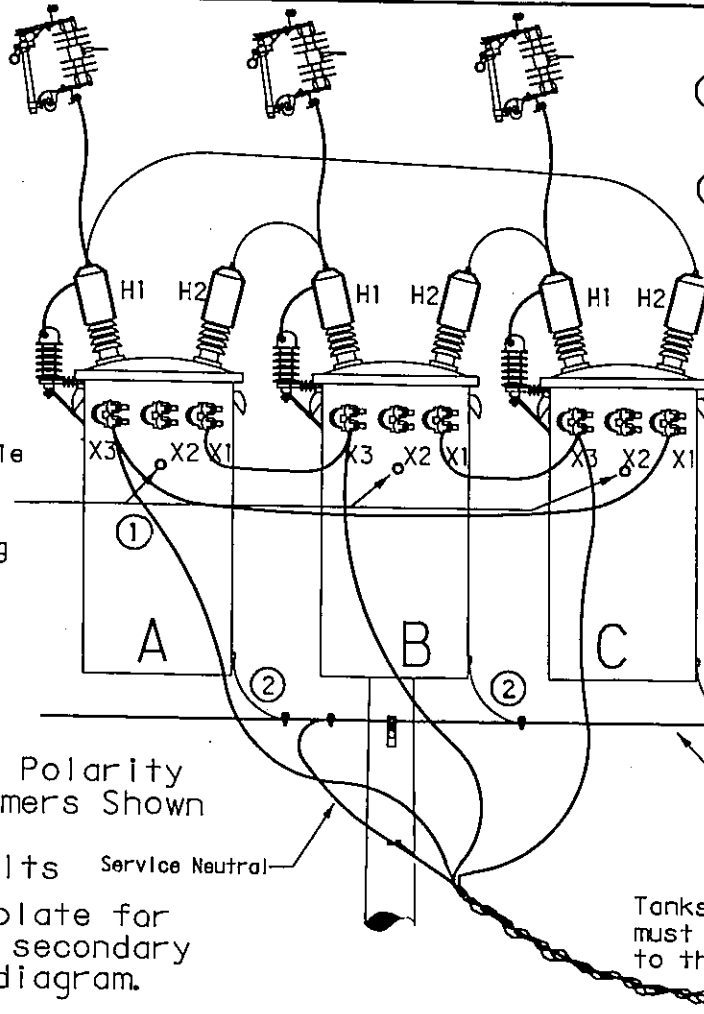


ORIGINAL	JLH	REC	03/01/06
DESIGNED			
DRAWN			
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



NO.	REVISION	DATE	CR.
1	Changed note 7 to 8, corrected text, chgd neut conn	08/19/08	



- ① Refer to 341-3 for minimum lead and neutral size
- ② Banding cable, typically #4

NOTE:

Additive Polarity
 Transformers Shown
 <200 KVA
 <7200 volts

See nameplate for
 specific secondary
 winding diagram.

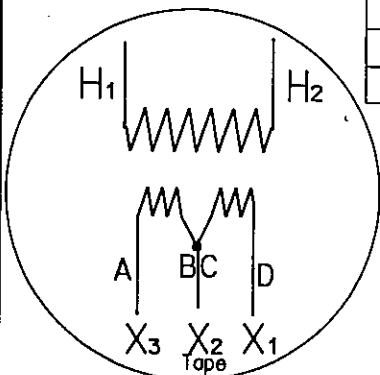
Service Neutral

System Neutral

Tanks and service neutral
 must be solidly grounded
 to the system neutral.

ORIGINAL	JLH	REC	11/17/06
DESIGNED			
DRAWN			
DATE			

THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY



120/240 VOLT

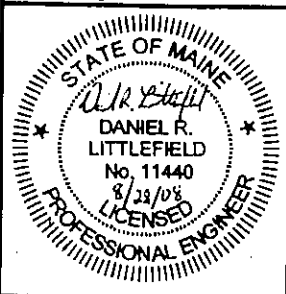
SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1A/X1B, X1B/X1C, X1C/X1A	240	X1A/N, X1B/N, X1C/N	N/A	120/240
				600*

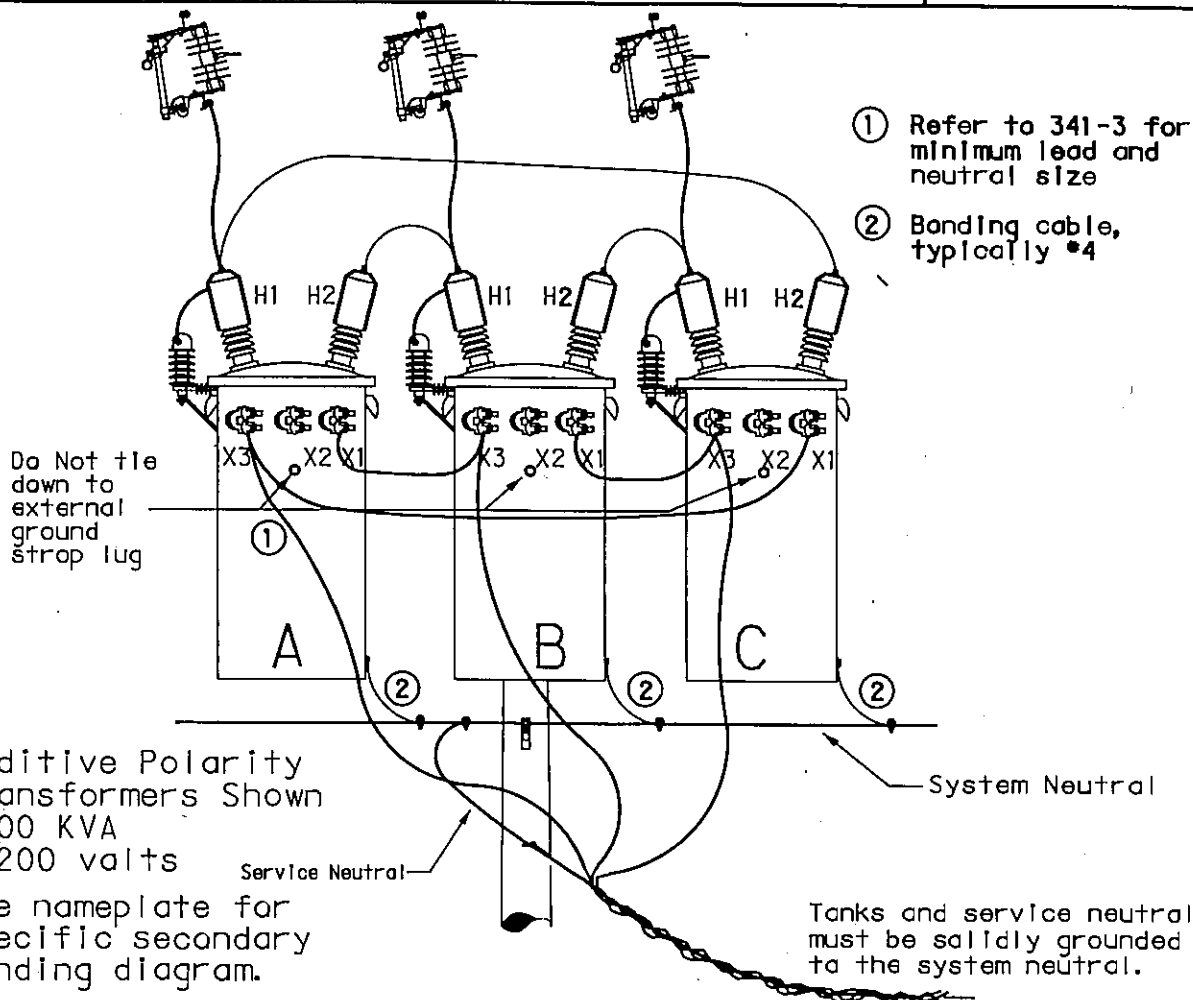
* SEE OIST ENG

See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing each.
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage.
5. No grounds anywhere on secondary side.
6. Secondary windings rated phase to phase voltage.
8. Transformers must be matched.

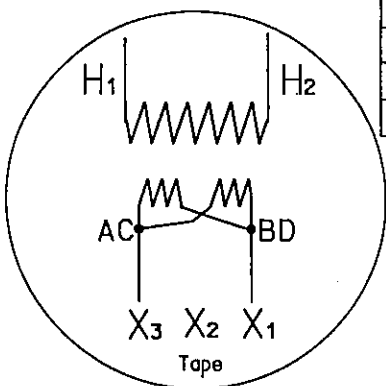
This connection may be used to supply 3 phase 3 wire 240, 480, or 600 volt power from delta or wye connected overhead primary systems. It should not be used on underground feeds from wye connected primary systems. For customer demand of less than 15 KVA, the open delta-open delta bank should be considered.





NOTE:

Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.



240 / 480 VOLT

SECONDARY VOLTAGES			NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL	
X1A/X1B, X1B/X1C, X1C/X1A	240	X1A/N, X1B/N, X1C/N	N/A
			240 / 480
			600 *

*SEE DIST ENG

See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing each.
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage.
5. No grounds anywhere on secondary side.
6. Secondary windings rated phase to phase voltage.
8. Transformers must be matched.

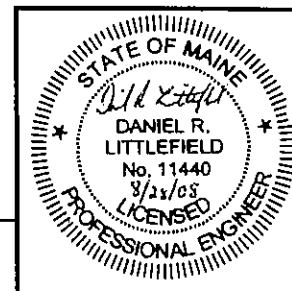
This connection may be used to supply 3 phase 3 wire 240, 480, or 600 volt power from delta or wye connected overhead primary systems. It should not be used on underground feeds from wye connected primary systems.

For customer demand of less than 15 KVA, the open delta-open delta bank should be considered.

must be on the same tap.

DISTRIBUTION CONSTRUCTION
STANDARDS

CENTRAL MAINE POWER CO.

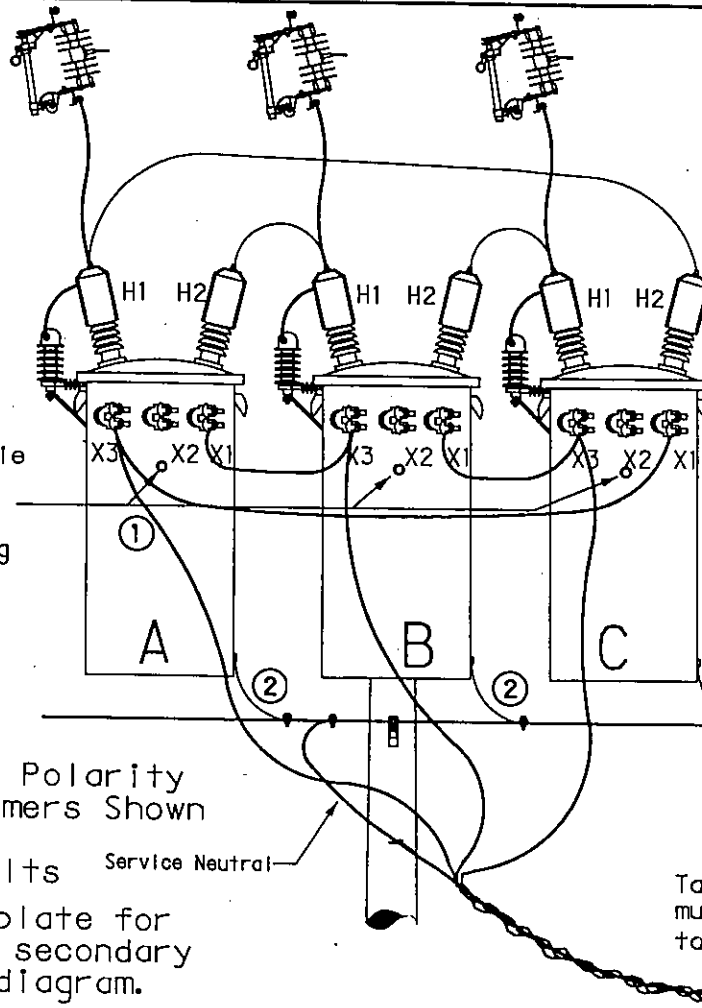


CADD SYSTEM ONLY

DRAWN
DATE 11/16/06
REC

Energy
Fast

NO.	REVISION	DATE	CHK.
	Changed note 7 to 8, corrected text, label num	08/29/08	



- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4

Do Not tie down to external ground strap lug

NOTE:

Additive Polarity Transformers Shown
 <200 KVA
 <7200 volts
 See nameplate for specific secondary winding diagram.

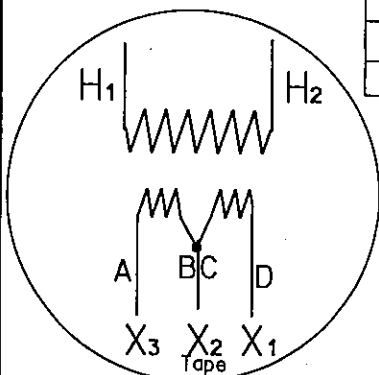
Tanks and service neutral must be solidly grounded to the system neutral.

SECONDARY VOLTAGES				NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL		
X1A/X1B, X1B/X1C, X1C/X1A	480	X1A/N, X1B/N, X1C/N	N/A	240 / 480
				600 *

* SEE DIST ENG

See check list notes starting on p.342-3, 4, & 5 for explanations.

- 1. Conventional transformers.
- 2. Two primary bushing each.
- 3. No primary neutral on bank.
- 4. Primary windings rated phase to phase voltage.
- 5. No grounds anywhere on secondary side.
- 6. Secondary windings rated phase to phase voltage.
- 8. Transformers must be matched.



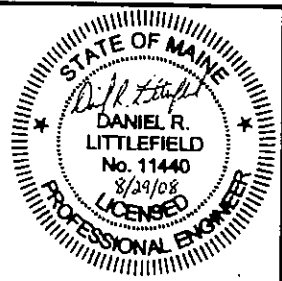
240 / 480 VOLT

This connection may be used to supply 3 phase 3 wire 240, 480, or 600 volt power from delta or wye connected overhead primary systems. It should not be used on underground feeds from wye connected primary systems.

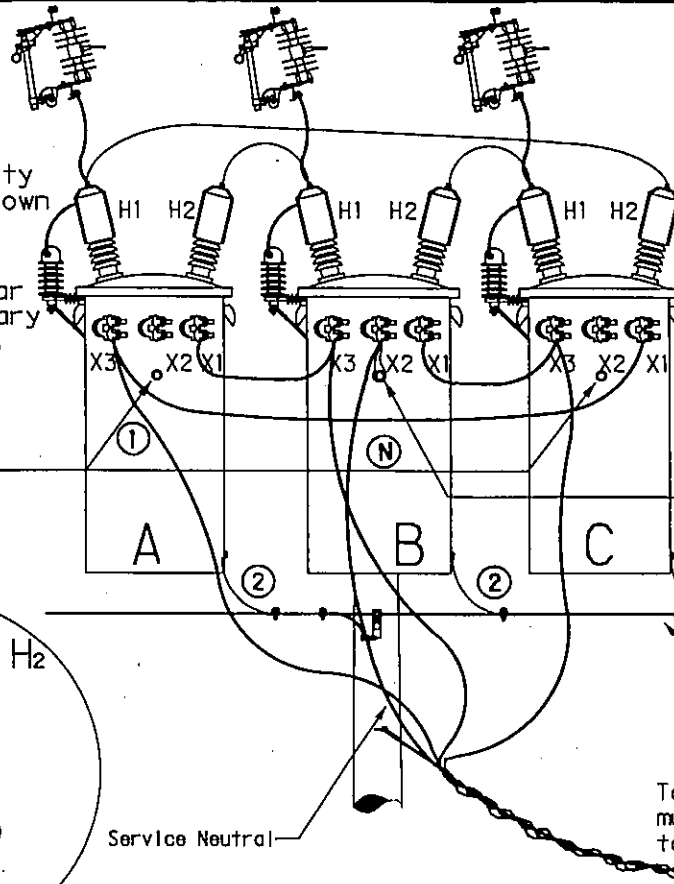
For customer demand of less than 15 KVA, the open delta-open delta bank should be considered.

ORIGINAL	JLH	REC	11/17/06
DESIGNED			
DRAWN			
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.



- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4

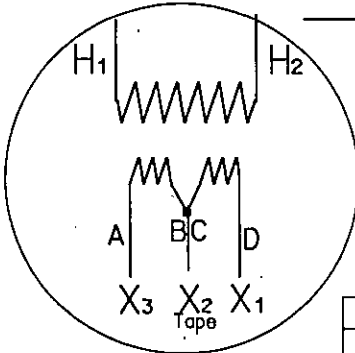
Do Not tie
down to
external
ground
strap lug

Tie down
to external
ground
strap lug

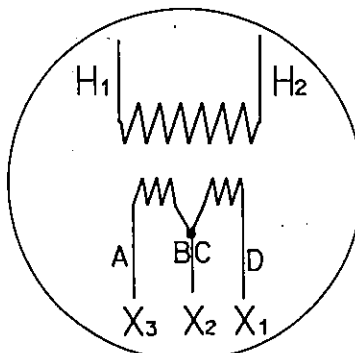
System Neutral

Service Neutral

Tanks and service neutral
must be solidly grounded
to the system neutral.



A + C TRANSFORMERS
120/240 VOLT



B TRANSFORMERS
120/240 VOLT

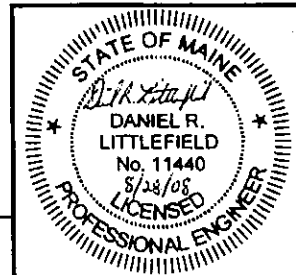
SECONDARY VOLTAGES			NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL	
X3A/X3B, X3B/X3C, X3C/X3A	240	X3A/X2B, X1C/X2B	20B 120/240
X3A/X3B, X3B/X3C, X3C/X3A	240	X1A/X2B, X3B/X2B, X1B/X2B, X3C/X2B	120 120/240
X3A/X3B, X3B/X3C, X3C/X3A	240	X1A/X2B, X3B/X2B, X1B/X2B, X3C/X2B	120 120/240

See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing each.
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage.
5. On one transformer only, the secondary center tap is grounded: no secondary grounds on the other two.
6. Secondary windings rated 120/240 on transformers with center tap grounded, 240 on the other two.
7. Do not use to serve 3 wire 3 phase services.
8. Transformers must be matched.

This bank is used to supply combination 3 phase 240 volt and single phase 120/240 volt loads from delta or wye connected overhead primary systems. It should not be used on underground feeds from wye connected primary systems.

If the single phase load equals one half or more of the three phase load or the total demand is less than 15 KVA, the open delta-open delta bank should be considered.



BE REVISED ON THE
CADD SYSTEM ONLY

DRAWN
DATE 11/17/06

REC
11/17/06

ast

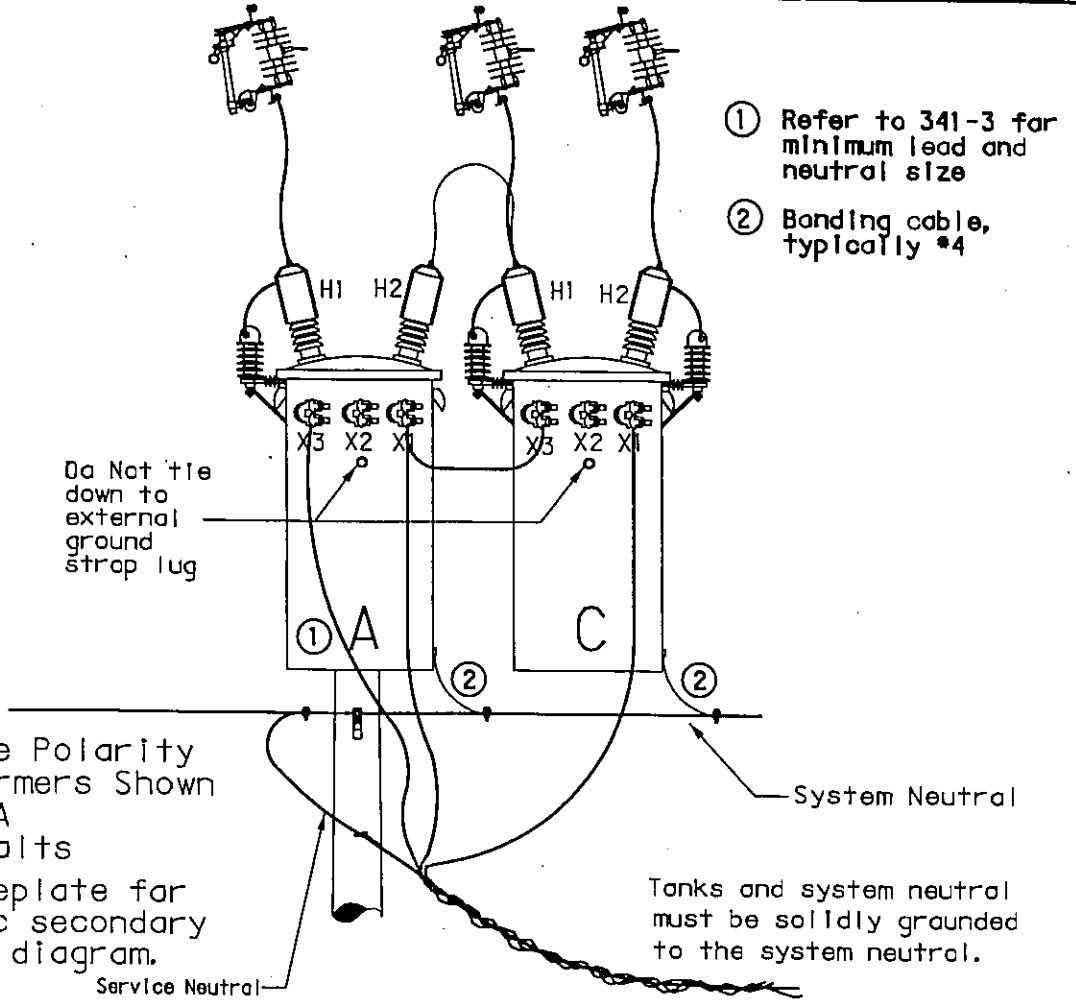
2/ Changed note 7, corrected text, digl neutr conn 08/19/08

REV	REVISION	DATE	CHK.
1	Corrected text, label neutral	08/19/08	



ORIGINAL	JLH	11/17/06
DESIGNED	REC	
DRAWN		

THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY

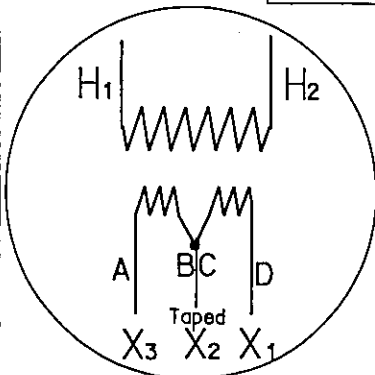


- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4

NOTE:
 Additive Polarity Transformers Shown
 <200 KVA
 <7200 volts
 See nameplate for specific secondary winding diagram.

SECONDARY VOLTAGES					NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL			
X3A/X1A, X1A/X1C, X1C/X3A	240	X3A/N, X1A/N, X3C/N, X1C/N	N/A		120/240
					600*

* SEE OIST ENG



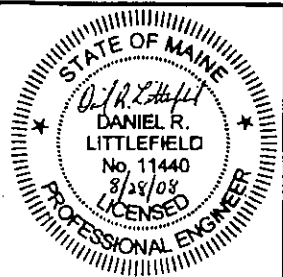
120/240 VOLT

See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing each.
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage.
5. No grounds anywhere on secondary side.
6. Secondary windings rated phase to phase voltage.

This connection may be used to supply 3 phase 3 wire 240, 480, or 600 volt power from delta or wye connected overhead primary systems. It should not be used on underground feeds from wye connected primary systems, due to ferroresonance concerns.

Approval must be obtained from the Distribution Field Engineer before serving motors over 10 HP, as voltage and current imbalance will need to be evaluated.



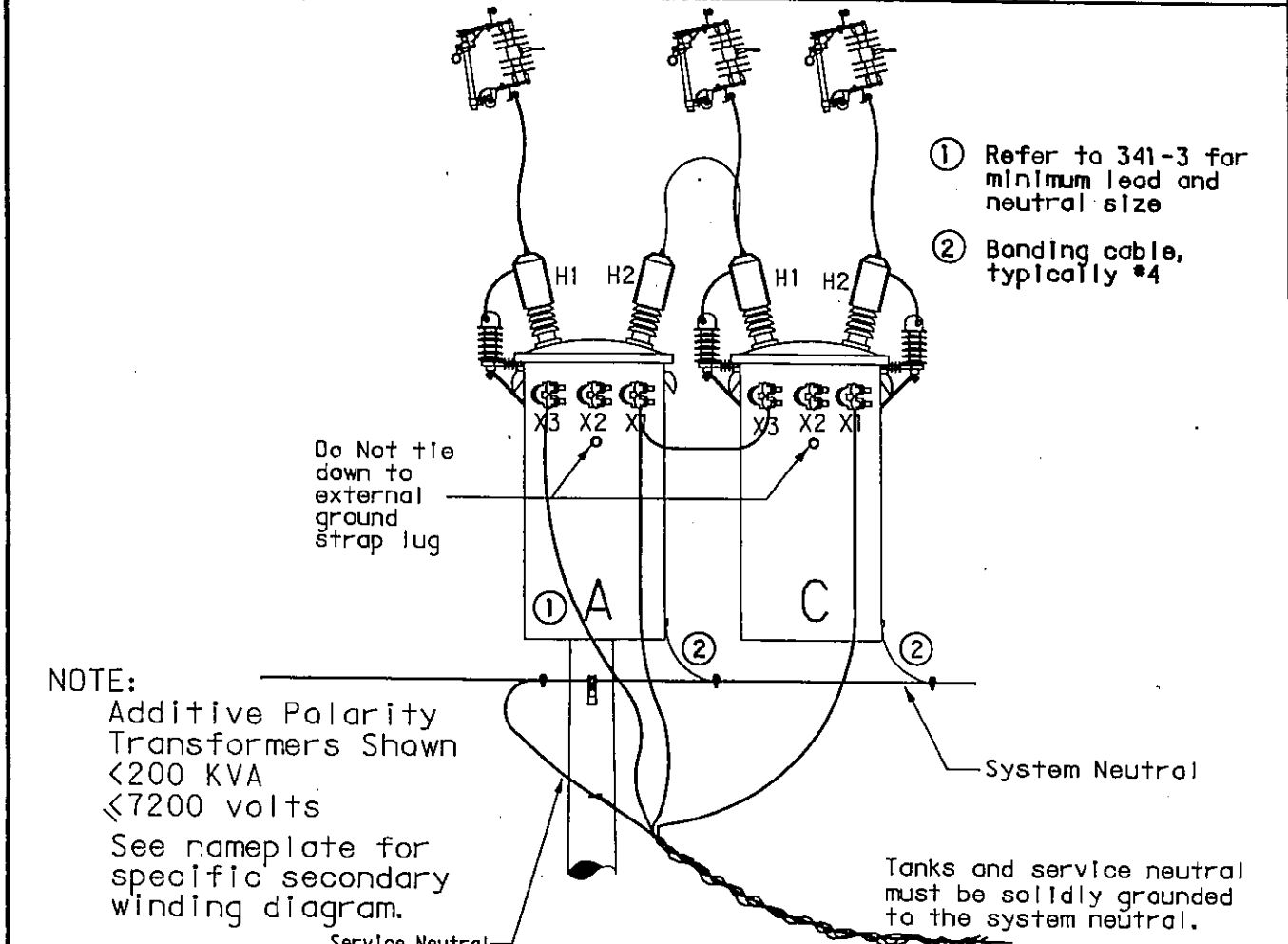


NO.	REVISION	DATE	CL.
1	Corrected text, label neutral	08/19/08	



DESIGNED	DATE
JLH	11/17/06

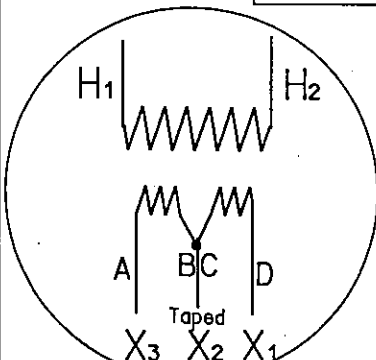
THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY



NOTE:
 Additive Polarity
 Transformers Shown
 <200 KVA
 <7200 volts
 See nameplate for
 specific secondary
 winding diagram.

SECONDARY VOLTAGES			NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL	
X3A/X1 A, X1 A/X1 C, X1 C/X3A	240	X3A/N, X1 A/N, X3C/N, X1 C/N	N/A
			120/240
			600*

* SEE DIST ENG



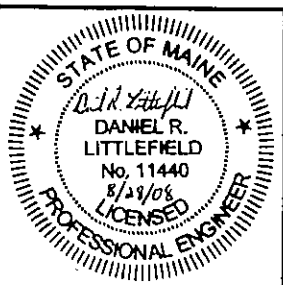
120/240 VOLT

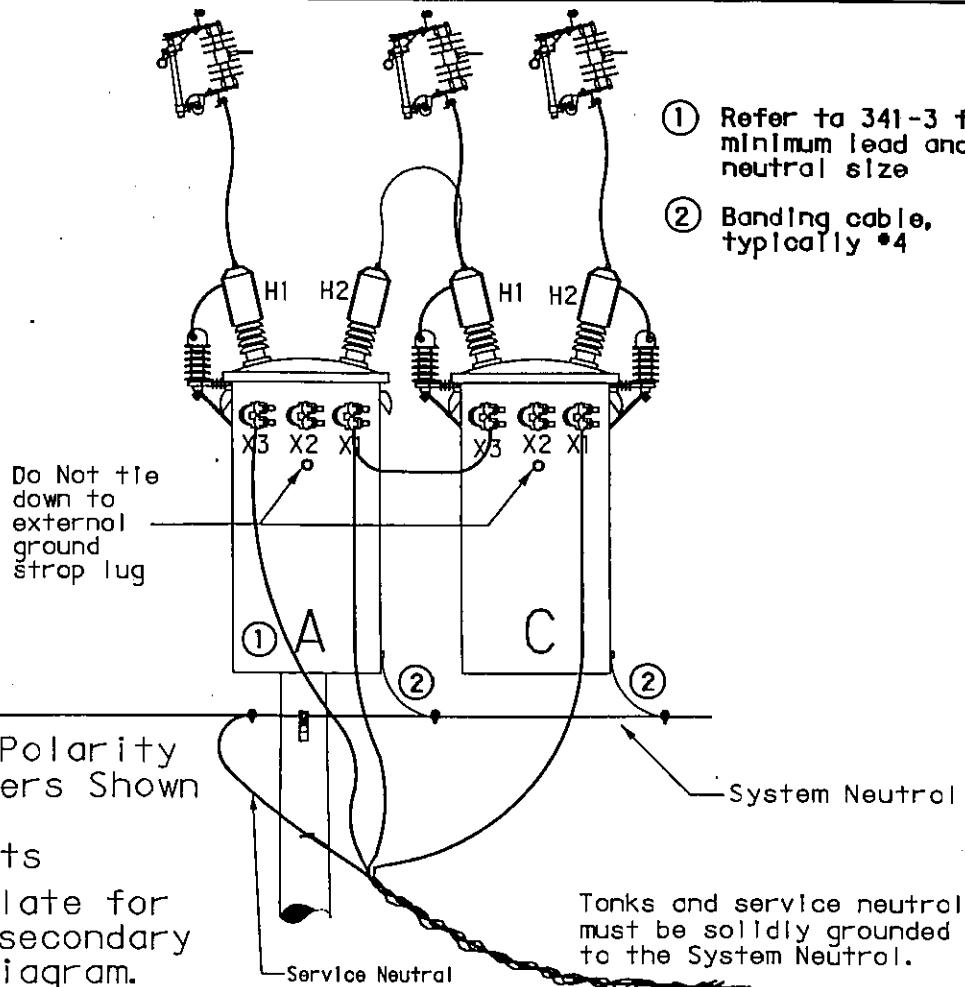
See check list notes starting on p.342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. Two primary bushing each.
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage.
5. No grounds anywhere on secondary side.
6. Secondary windings rated phase to phase voltage.

This connection may be used to supply 3 phase 3 wire 240, 480, or 600 volt power from delta or wye connected overhead primary systems. It should not be used on underground feeds from wye connected primary systems, due to ferroresonance concerns.

Approval must be obtained from the Distribution Field Engineer before serving motors over 10 HP, as voltage and current imbalance will need to be evaluated.





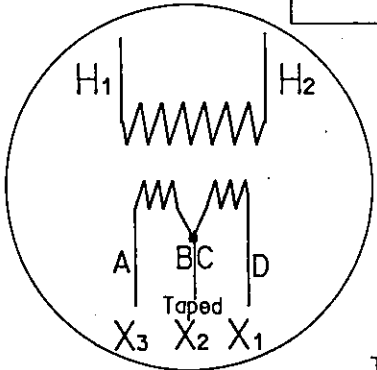
- ① Refer to 341-3 for minimum lead and neutral size
- ② Banding cable, typically #4

NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.

Tanks and service neutral
must be solidly grounded
to the System Neutral.

SECONDARY VOLTAGES		NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE	PHASE TO NEUTRAL	
X3A/X1A, X1A/X1C, X1C/X3A	480 X3A/N, X1A/N, X3C/N, X1C/N	240 / 480
		600*

* SEE 01ST ENG



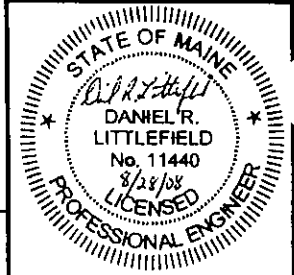
240 / 480 VOLT

See check list notes starting on p.342-3, 4, & 5 for explanations.

- 1. Conventional transformers.
- 2. Two primary bushing each.
- 3. No primary neutral on bank.
- 4. Primary windings rated phase to phase voltage.
- 5. No grounds anywhere on secondary side.
- 6. Secondary windings rated phase to phase voltage.

This connection may be used to supply 3 phase 3 wire 240, 480, or 600 volt power from delta or wye connected overhead primary systems. It should not be used on underground feeds from wye connected primary systems, due to ferroresonance concerns.

Approval must be obtained from the Distribution Field Engineer before serving motors over 10 HP, as voltage and current imbalance will need to be evaluated.



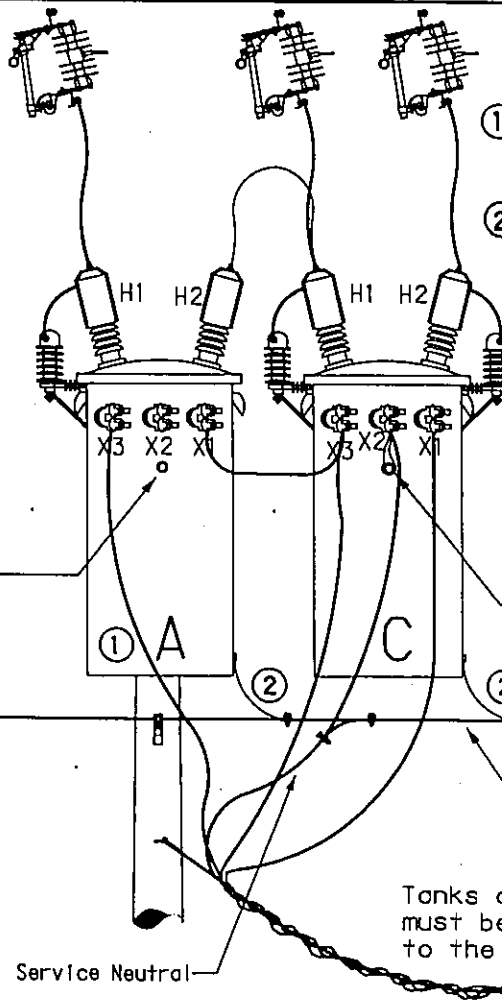
DO NOT REVISION ON THE
CADD SYSTEM ONLY

DRAWN
DATE

ENG
EST

REVISIONS

NO.	REVISION	DATE	CHK.
1	Changed note 7, corrected text, ohgd neut conn	08/19/08	

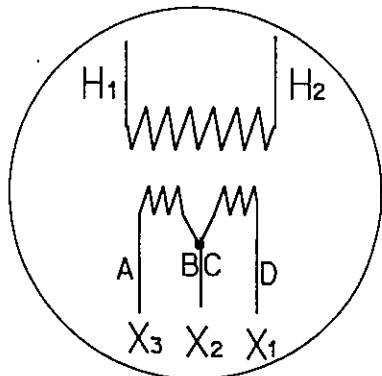


- ① Refer to 341-3 for minimum lead and neutral size
- ② Banding cable, typically #4

NOTE:
Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.

Tanks and service neutral
must be solidly grounded
to the system neutral.

SECONDARY VOLTAGES			NAMEPLATE SECONDARY WINDINGS
PHASE TO PHASE		PHASE TO NEUTRAL	
X3A/X1A, X3C/X1C, X1C/X3A	240	X3C/X2C, X1C/X2C	120
X3A/X1A, X3C/X1C, X1C/X3A	240	X3A/X2C	208



C TRANSFORMER
CENTER TAPPED
120/240 VOLT

See check list notes starting on p.342-3, 4, & 5 for explanations.

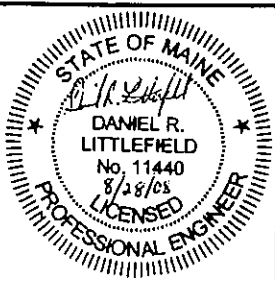
1. Conventional transformers.
2. Two primary bushing each.
3. No primary neutral on bank.
4. Primary windings rated phase to phase voltage.
5. On one transformer, the secondary center tap is grounded: no secondary grounds on the other.
6. Secondary windings rated 120/240 on the transformer with center tap grounded on C transformers, 240 on the A transformer.
7. Do not use to serve 3 wire 3 phase services.

This bank is used to supply combination three phase 240 volt and single phase 120/240 volt loads from delta or wye connected primary systems. It should not be used on underground feeds from wye connected primary systems.

Approval must be obtained from the Distribution Field Engineer before serving motors over 10 HP or 3 phase demands over 15 KVA.

ORIGINAL	JLH	REC	11/17/06
DESIGNED		DRAWN	DATE

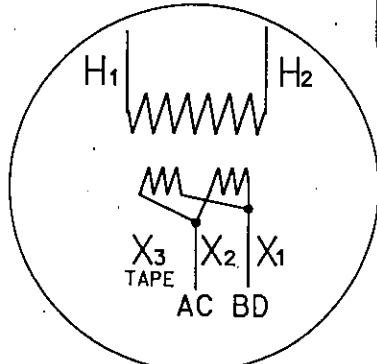
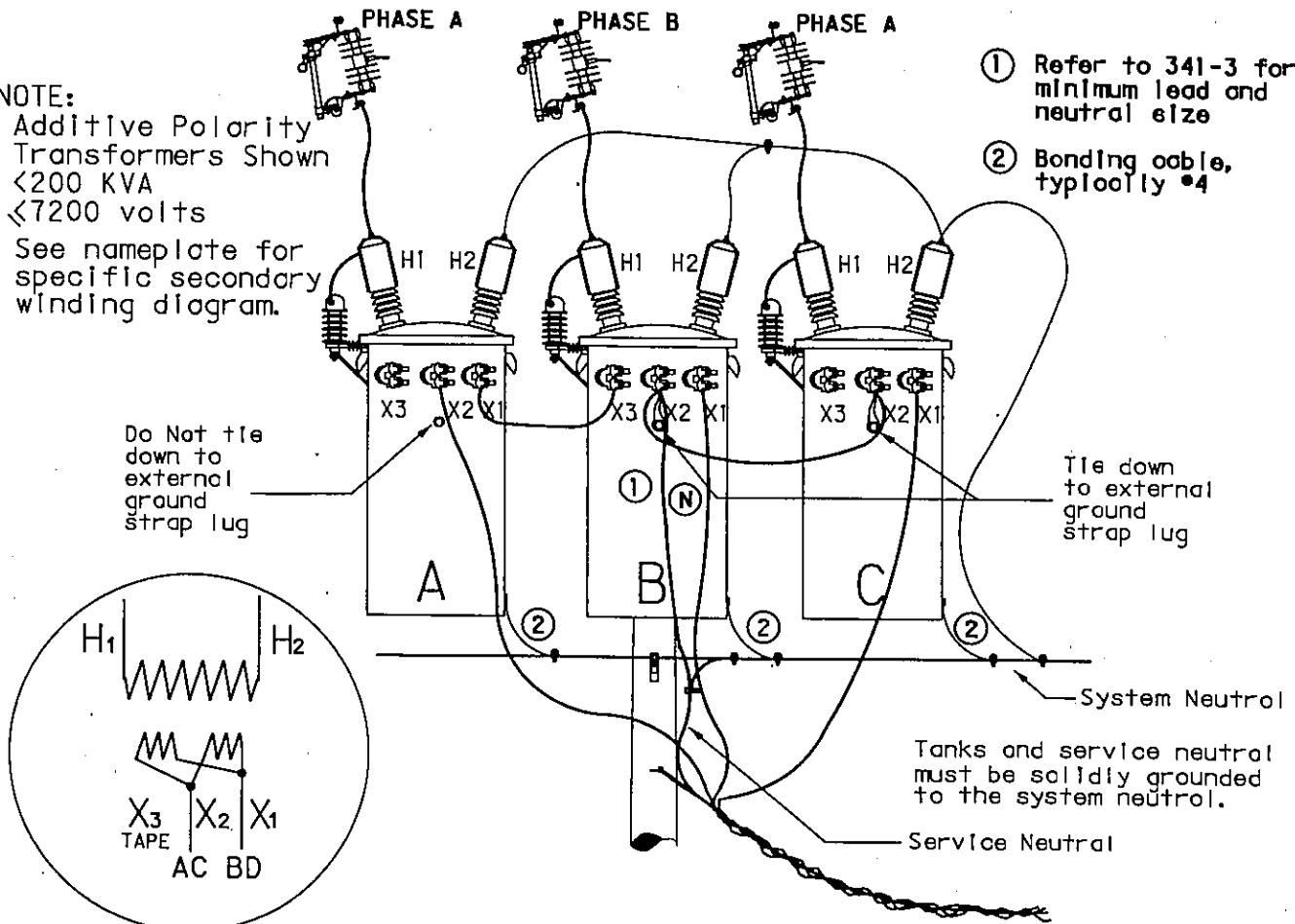
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



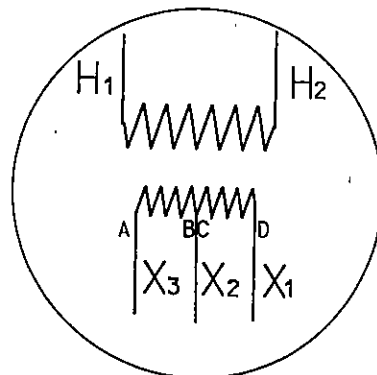
NOTE:

Additive Polarity
Transformers Shown
<200 KVA
<7200 volts
See nameplate for
specific secondary
winding diagram.

- ① Refer to 341-3 for minimum lead and neutral size
- ② Bonding cable, typically #4



A + C TRANSFORMER
120/240 VOLT
NO GROUND ON
A TRANSFORMER



B TRANSFORMER
120/240 VOLT
CENTER TAPPED

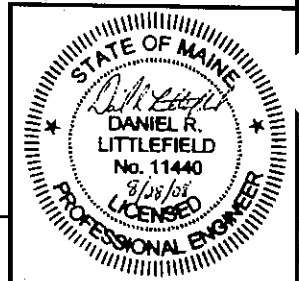
SECONDARY VOLTAGES		NAMEPLATE SECONDARY WINDINGS	
PHASE TO PHASE	PHASE TO NEUTRAL		
X2A/X1B	208	X2A/X1A	120
X1B/X1C	208	X2B/X1B	120
X1C/X2A	208	X1C/X2C	120

See check list notes starting on p. 342-3, 4, & 5 for explanations.

1. Conventional transformers.
2. One or two primary bushings each.
3. Primary neutral grounded.
4. Primary windings rotated phase to ground voltage.
5. Two transformers should have secondary taps to the neutral grounded as shown: The left hand, or A transformer must not have any secondary grounds.
6. The center transformer secondary winding must be rated 120/240 volts, the two outside transformer secondaries must be connected for 120 volts.
The center transformer will carry 2/3rds of the total demand. The outside transformers will each carry 1/3rd of the total demand.

This bank is used to supply 120/208 volt 4 wire services from two phase and the neutral of wye connected primary systems.

This connection is for existing services only and is not offered for any new service or increased capacity.



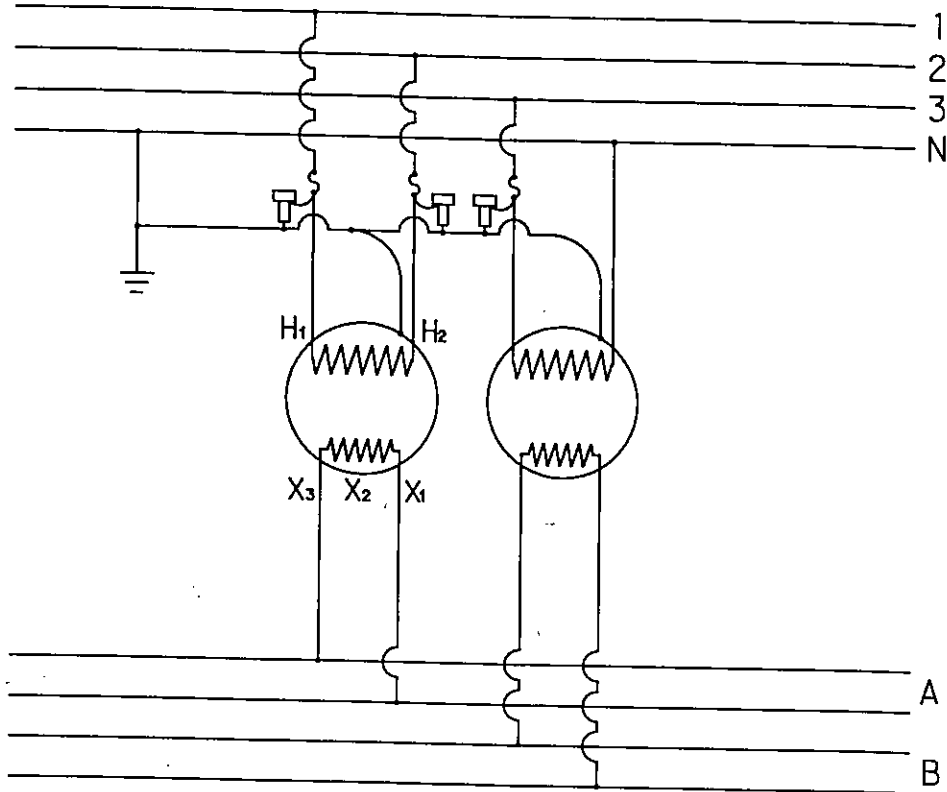
CADD SYSTEM ONLY

DRAWN
DATE 02/24/06
REC

ENG
EAST

2 Changed note 7 to 5, changed last para. eng neut conn 08/28/08

NO.	REVISION	DATE	DR.
1	Bolded last paragraph	07/09/08	



WYE-2 PHASE BANK with 4 wire secondary

Check List: See check list notes on p. 342-3, 4 & 5 for explanation:

- | <u>Transformer A</u> | <u>Transformer B</u> |
|---|----------------------------------|
| 1. Conventional or protected | Conventional or protected |
| 2. Two bushing | One or two bushing |
| 3. No primary neutral | Primary neutral grounded |
| 4. Phase to phase primary | Phase to neutral primary voltage |
| 5. No grounds on secondary side and no connection between secondaries | 480 volt secondary |
| 6. 480 volt secondary | 480 volt secondary |

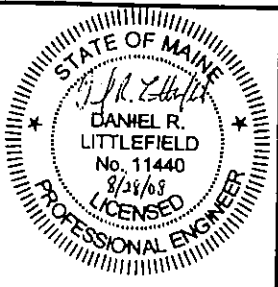
This bank is to furnish 2Ø four wire power from 2400/4160 or 7200/12470 primary systems. To maintain the proper 90° phase relationship between A and B, one transformer must be connected between two phases and the other transformer connected between the third phase and neutral.

This connection is for existing services only in the Lewiston-Auburn area, and is not offered for any new services or increased capacity.



ORIGINAL	RCS	DATE
DESIGNED	RCE	12/01/75
DRAWN		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6XD1	1	GENERIC SINGLE PHASE O/H TRANSFORMER	
		1 GENERIC TRANSFORMER	600086XXXX
C6XDIP1PH	1	OHXMR, INSTALLATION PKG, 1 PHASE	
		4 CONNECTORS	600011XXXX
		7 WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		10 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6DXGA	1	OHXMR, GROUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MX1

DESCRIPTION
1 PH XFMR TO 50KVA ON POLE TOP STRUCTURE

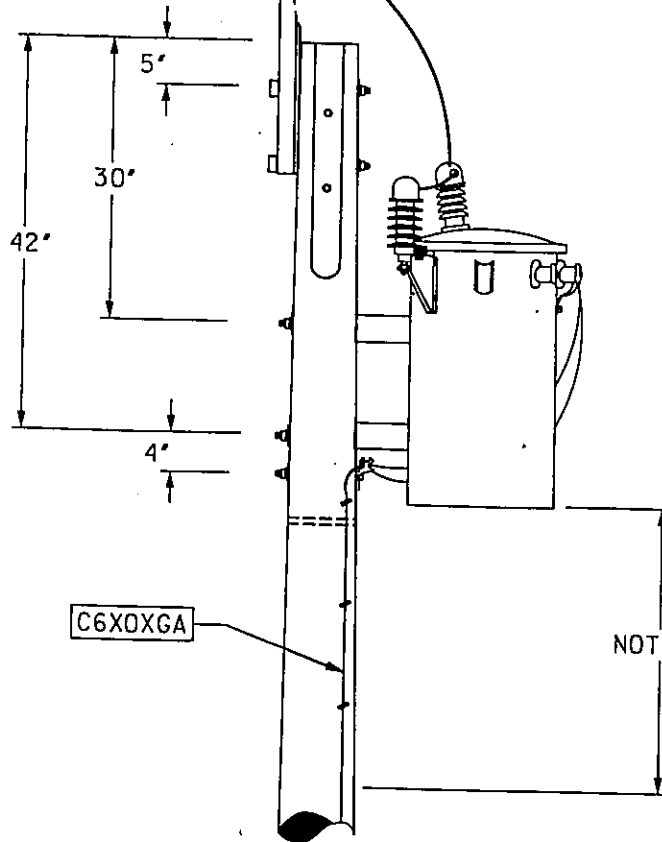
PAGE
343-1 B

PRIMARY NEUTRAL

C6XDIP1 PH

TRANSFORMER
SECONDARY NEUTRAL
TERMINAL

C6XD1



NOTE

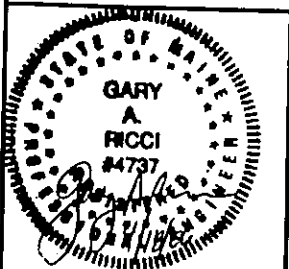
- 1 This installation to be used for completely self protected transformers only.
- 2 The bottom of any grounded equipment case shall not be located less than 30 inches above the highest communication attachment.

DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS		08/24/01
DATE	REC		



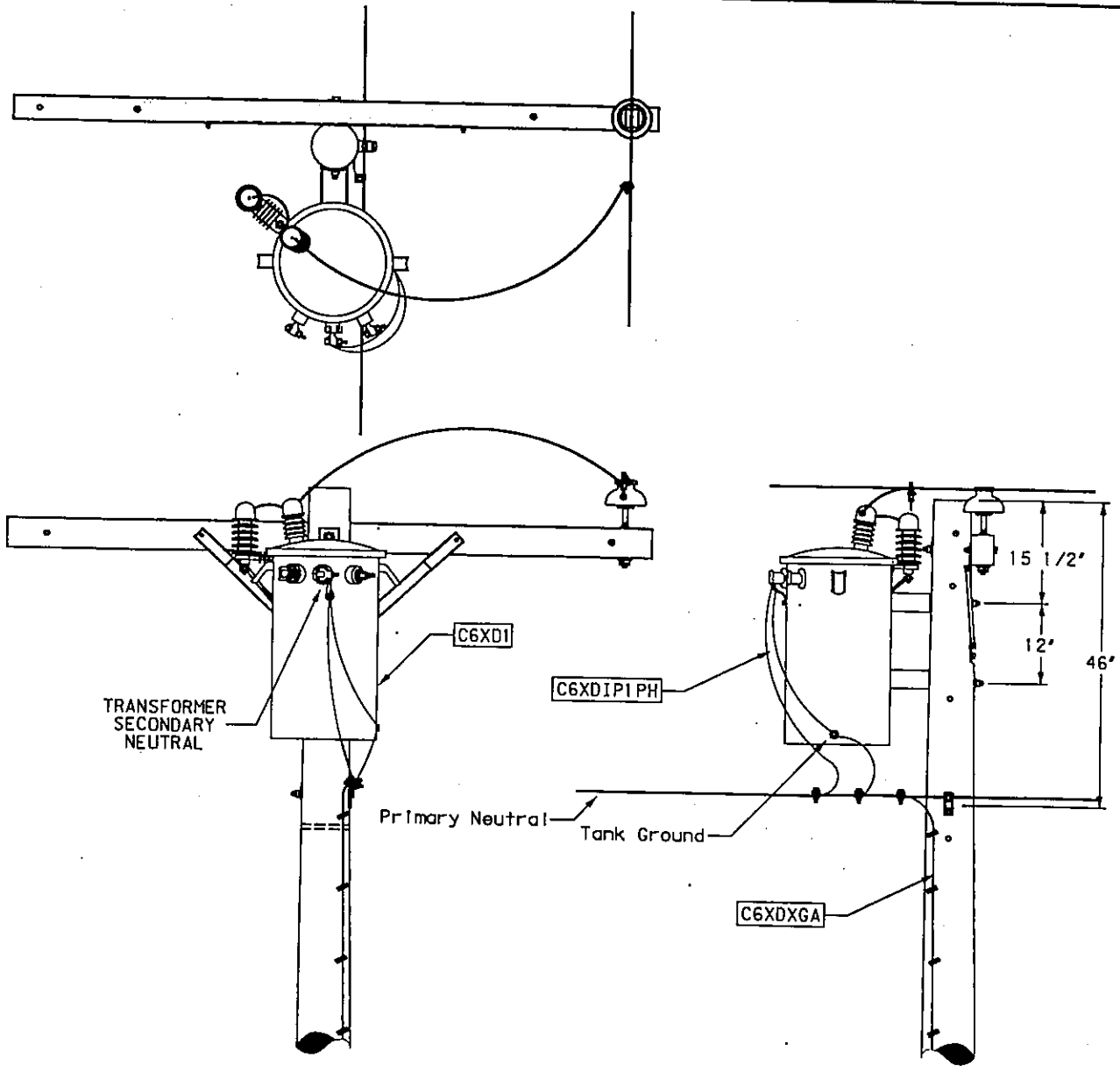
DESIGNED	ORIGINAL
DRAWN	GRG
DATE	4/6/93

THIS DRAWING SHALL
BE REVISED ON THE
CAOD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



NOTES:

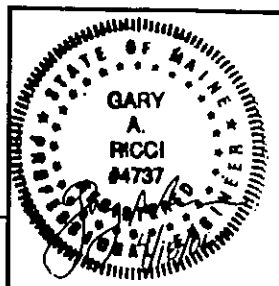
1. This installation to be used for completely self protected transformers only.
2. This installation is to be used to avoid changing out a pole.
3. This installation shall be used when 30 in. fiber glass pole top can not be used.
4. The transformer may be mounted on either the face or the back of the pole.
5. Interconnect primary neutral, transformer secondary neutral, and tank ground, as shown. Pole ground must connect directly to primary neutral with its own connector.

DESIGNED	GRG	CS	CS
DRAWN		REC	REC
DATE	1/21/94	08/24/01	01/25/06



DESIGNED	GRG
DRAWN	
DATE	6/14/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

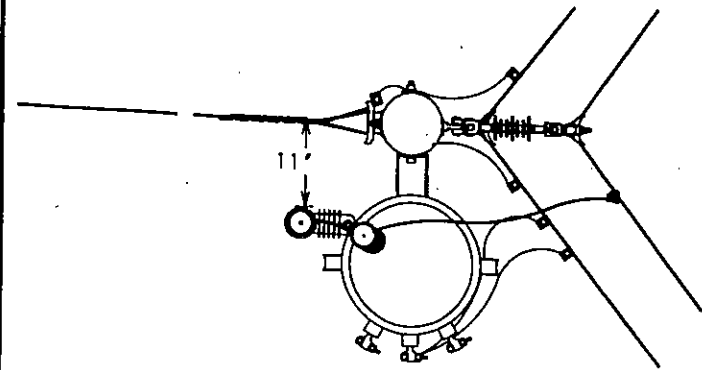


MACRO
C6MX1

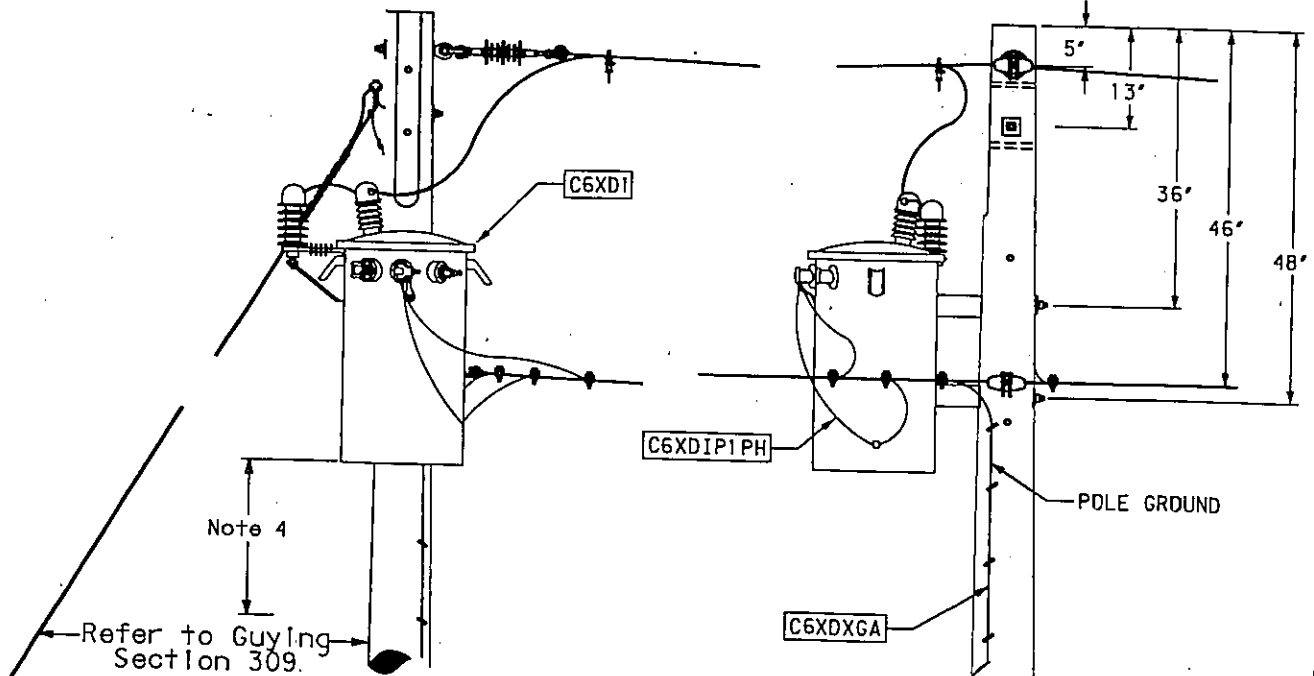
DESCRIPTION
1 PH XFMR TO 50KVA ON SS STRUCTURE

PAGE
343-1 D

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	1D/26/01	12/26/02	01/25/06



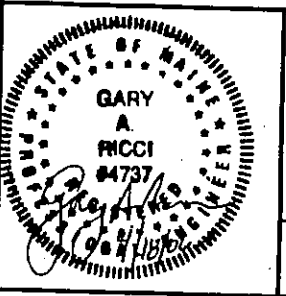
ORIGINAL	GRG
DESIGNED	
DRAWN	
DATE	4/17/93



NOTES:

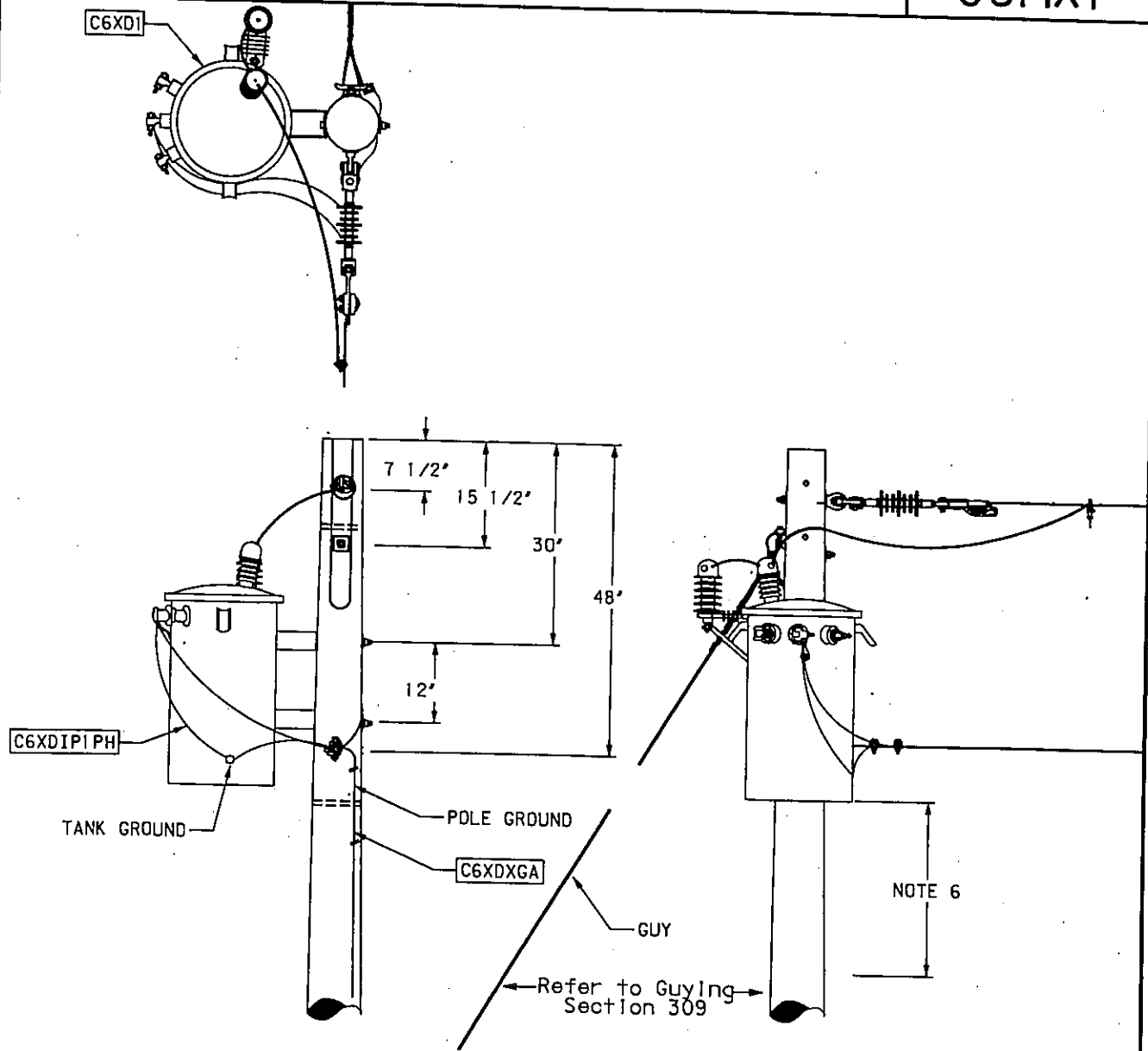
1. This installation to be used for completely self protected transformers only.
2. This installation shall be used on all 7200 volt and 20kv single phase lines where semi-strain corners (corners of 26' to 50') exist.
3. Transformer may be mounted on either side of the pole or may be quarter mounted away from the neutral.
4. Interconnect primary neutral, transformer secondary neutral, and tank ground, as shown above. Pole ground must connect directly to primary neutral with its own connector.
5. The bottom of any grounded equipment case shall not be located less than 30 inches above highest communication attachment.

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



NOTES:

1. This installation shall be used for completely self protected transformers only.
2. This installation shall be used on all 7200 volt and 20kv single phase lines where deadends exist.
3. The transformer may be mounted on either side of the pole or may be quarter mounted away from guys and service taps.
4. The top mounting bracket of the transformer must be located above the neutral.
5. Interconnect primary neutral, transformer secondary neutral, and tank ground, as shown above. Pole ground must connect directly to primary neutral.
6. The bottom of any grounded equipment case shall not be located less than 30 inches above the highest communication attachment.

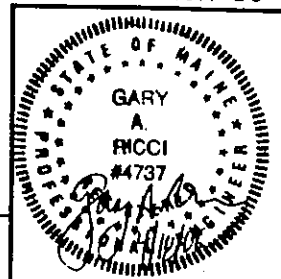
DESIGNED	CS
DRAWN	REC
DATE	08/24/01
	01/25/06



East

DESIGNED	GRC
DRAWN	
DATE	4/1/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



THIS SHEET LEFT BLANK INTENTIONALLY

Distribution Construction Standards - CMP Co.

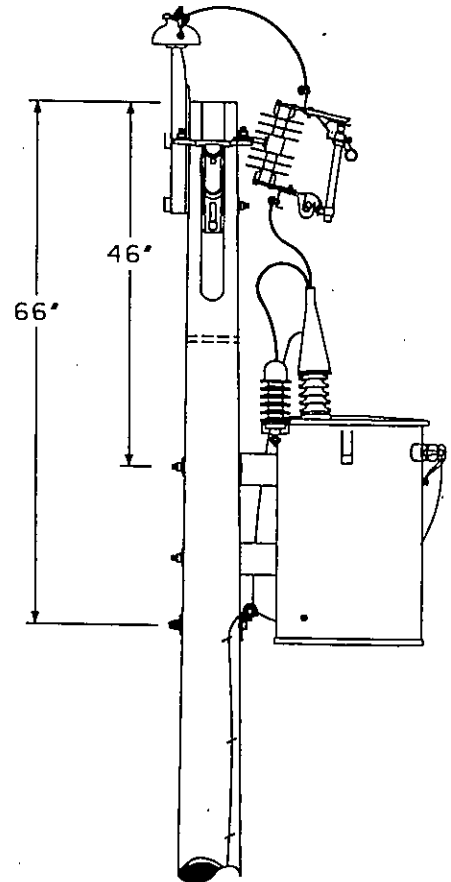
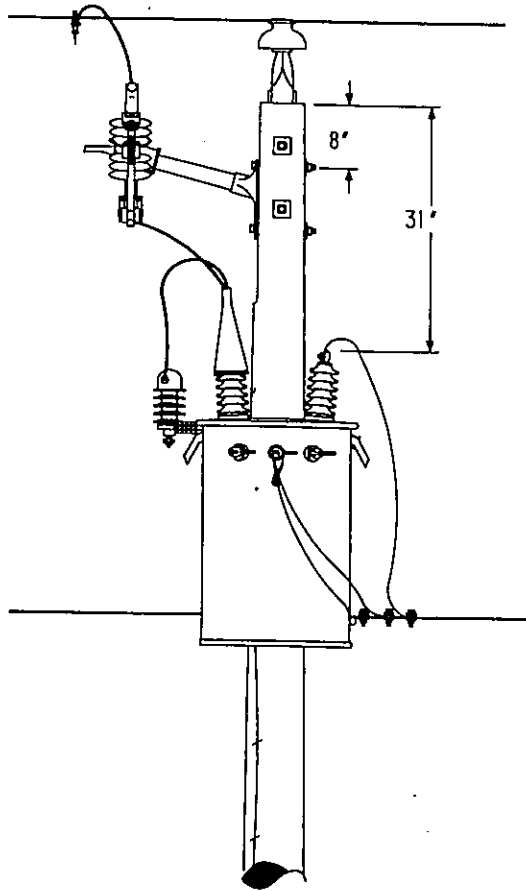
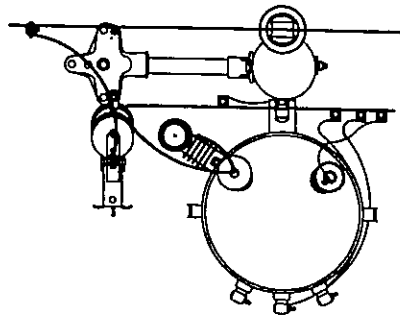
CU Number	Quantity - CU/Mat	Description	Material ID
C6XD1	1	GENERIC SINGLE PHASE O/H TRANSFORMER	
		1	GENERIC TRANSFORMER 600086XXXX
C6XDEMB	1	EQUIPMENT MOUNTING BRACKET, 18IN	
		2	BOLT, THRU 5/8 IN. ALL LENGTHS 600027208X
		2	WASHER, SQUARE, GALVANIZED ALL SIZES 60002748XX
		2	WASHER, GALV, TWO TURN SPRING ALL SIZES 6000274XXX
		1	BKT EQUIP MTG 18 IN 6000620140
C6XDIP1PH	1	OHXMR, INSTALLATION PKG, 1 PHASE	
		4	CONNECTORS 600011XXXX
		7	WIRE #2 CU 7 STRAND SD RHW USE OR RHH 6000207360
		2	BOLT, THRU 5/8 IN. ALL LENGTHS 600027208X
		2	WSH 2 TURN SPR GALV 5/8 6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES 60002748XX
		10	WIRE NO. 4 CU GROUND BARE STRANDED S D 751182
C6XDLAMKIT	1	OHXMR ARRESTOR MOUNTING KIT GENERIC	
C6DXCO	1	TRANSFORMER FUSED CUTOUT (GENERIC)	
		1	FUSED CUTOUT (SELECT FROM CUCT) 6000491XXX
C6DXGA	1	OHXMR, GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN 6000112662
		1	CONNECTORS 600011XXXX
		1	ROD GROUND GALV 3/4X8FT 6000251860
		9	STAPLES GALV F/4 GRD WR 6000274402
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D 751182	

MACRO
C6MX1 PT50CON

DESCRIPTION
1 PH XFMR 2 BUSHING CONV TO 50KVA POLE TOP

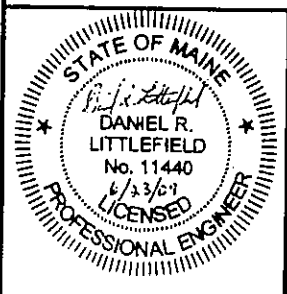
PAGE
343-2B

NO.	REVISION	DATE	CK.
1	Chgd ground connections to trons	05/18/09	



DESIGNED	CS
DRAWN	REC
DATE	12/23/08

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 343-3A

1PH XFMR 100-167KVA INST ON P/T

Macro: C6MX1PT167

CU Number	Quantity - CU/Mat	Description	Material ID	
C6XC1	1	GENERIC SINGLE PHASE O/H TRANSFORMER		
		1	GENERIC TRANSFORMER	600086XXXX
C6XDEMB	1	EQUIPMENT MOUNTING BRACKET, 18IN		
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		2	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
		1	BKT EQUIP MTG 18 IN	6000620140
C6XDIP1PH	1	OHXMR, INSTALLATION PKG, 1 PHASE		
		4	CONNECTORS	600011XXXX
		7	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		10	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6XOLAMKIT	1	OHXMR ARRESTOR MOUNTING KIT GENERIC		
C6DXCO	1	TRANSFORMER FUSED CUTOUT (GENERIC)		
		1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6DXGA	1	OHXMR, GROUND ASSEMBLY		
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MX1PT167

DESCRIPTION
1 PH XFMR 100 - 167KVA INST. ON P/T

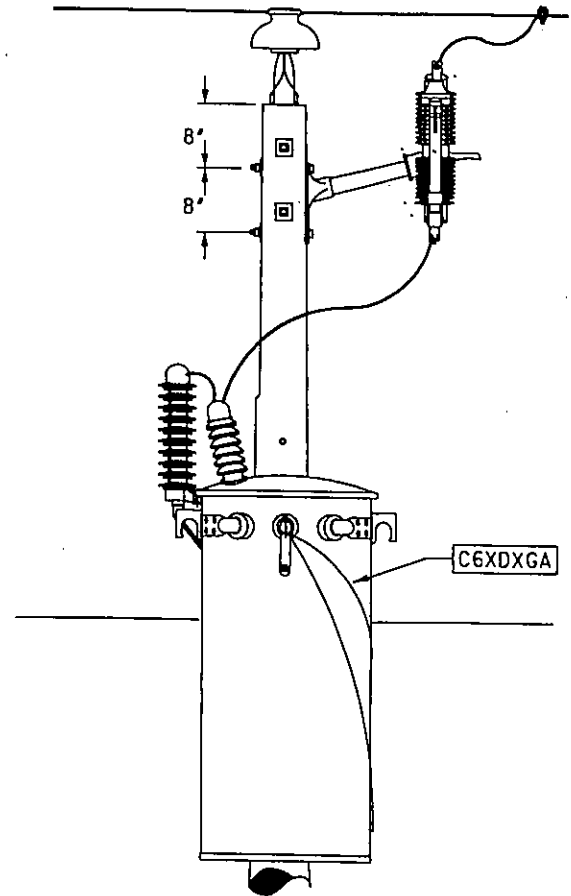
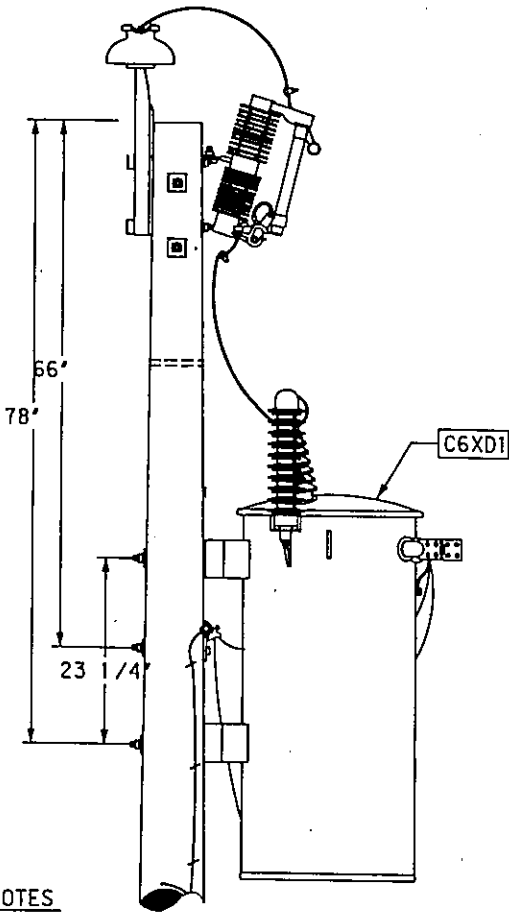
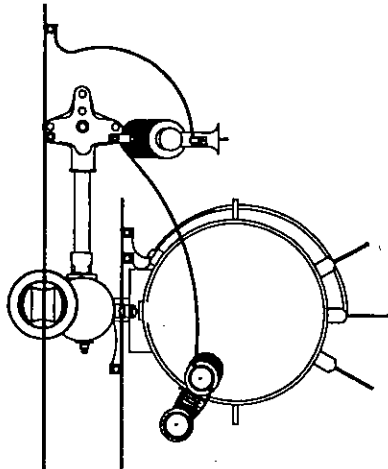
PAGE
343-3B

NO.	REVISION	DATE	CK.
1	Show equip bracket bolts	08/27/08	
2	Chgd page # from 343-2B to 343-3B	05/15/09	



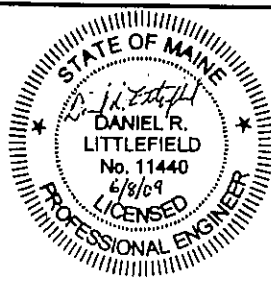
ORIGINAL	
DESIGNED	GRG
DRAWN	
DATE	5/28/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTES

1. This installation to be used for conventional transformers.
2. This installation shall be used on all 7200 volt and 19.9kv single phase lines for transformers rated for 100 and 167KVA. (NOTE: This installation is not to be used for primary voltage step-downs.)
3. The bottom of any grounded equipment case shall not be located less than 30 inches above the highest communication attachment.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

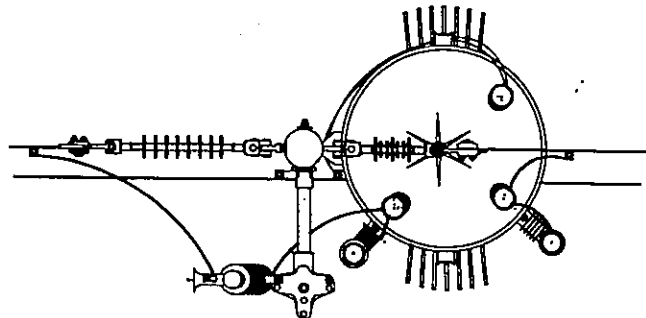
CU Number	Quantity - CU/Mat	Description	Material ID
C6CQDE	2	DEADEND COND. GENERIC (SELECT FROM CUCT)	
		DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	1	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEN5/8	1	EYE NUT ROUND 5/8 INCH	
		NUT EYE ROUND 5/8 TAP	6000273430
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDINSS	2	INS DEADEND GENERIC (SELECT FROM CUCT)	
		INSULATORS	6000310XXX
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE ALLOBBY	6000205XXX
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274800
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPC	2	CONNECTOR, PRIMARY	
		CONNECTORS	600011XXXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6XD1	1	GENERIC SINGLE PHASE O/H TRANSFORMER	
		GENERIC TRANSFORMER	600086XXXX
C6XDEMB	1	EQUIPMENT MOUNTING BRACKET, 18IN	
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV. TWO TURN SPRING ALL SIZES	6000274XXX
		BKT EQUIP. MTG. 18 IN	6000620140
C6XDIP1PH	1	OHXMR. INSTALLATION PKG. 1 PHASE	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD RHW USE DR RHH	6000207360
		BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WIRE NO. 4 CU GROUND BARE STRANQEO S.D.	751182
C6XQLAMKIT15	1	OHXMR. ARRESTOR MOUNTING KIT 10KV	
		CMP Conv. Transformer arrester kit 15 KV	6000491412
C6XDLAMKIT27	1	OHXMR. ARRESTOR MOUNTING KIT 27KV	
		CMP Conv. Transformer arrester kit 35 KV	6000491435
C6XOTW	20	XFORMER TAP WIRE GENERIC (SELECT FROM CU	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6DXCO	1	TRANSFORMER FUSED CUTOOUT (GENERIC)	
		FUSEO CUTOOUT (SELECT FROM CUCT)	6000491XXX
C6DXGA	1	OHXMR. GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		ROD GROUND GALV 3/4X8FT	6000251860
		STAPLES GALV F/4 GRD WR	6000274402
		WIRE NO. 4 CU GROUND BARE STRANDED S.D.	751182

MACRO
C6MX1 SD34DDECO

DESCRIPTION
1 PH STEPDOWN DBL D/E INST 34KV WITH CUTOUT

PAGE
343-4B

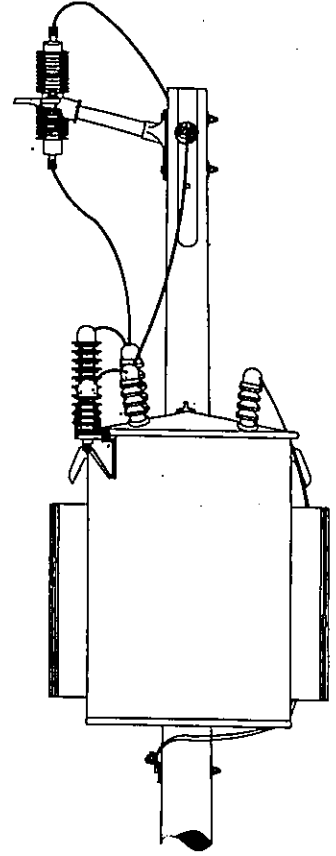
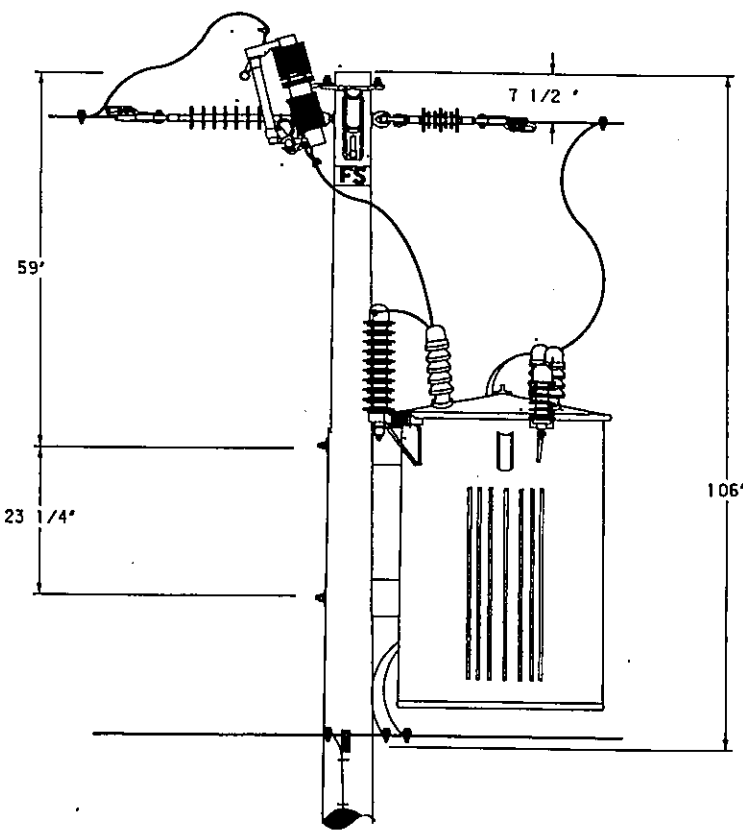
NO.	REVISION	DATE	CHK.
1	Chgd page from 343-3B to 343-4B	06/25/09	



NOTE:
When installing step down transformers on existing poles the cutouts may be placed on preceding pole, if necessary, to provide adequate spacing for transformer position.

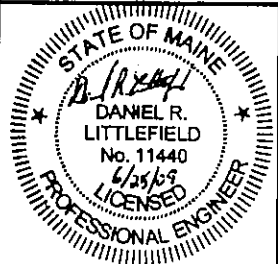
SOURCE

LOAD



ORIGINAL	GRG
DESIGNED	DRAWN
DATE	06/18/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID	
C6XD1	1	GENERIC SINGLE PHASE O/H TRANSFORMER		
		1	GENERIC TRANSFORMER	600086XXXX
C6XDIP1PH	1	OHXMR, INSTALLATION PKG, 1 PHASE		
		4	CONNECTORS	600011XXXX
		7	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		10	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6XDLAMKIT	1	OHXMR ARRESTOR MOUNTING KIT GENERIC		
C6XDXAMB	1	XARM MOUNTING BRACKET		
		1	BKT EQUIP MTG CROSSARM	6000620100
C6XDXCO	1	TRANSFORMER FUSED CUTOUT (GENERIC)		
		1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6XDXGA	1	OHXMR, GROUND ASSEMBLY		
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MX1 SX1 67

DESCRIPTION
1 PH XFMR 100 OR 167KVA CONV ON 3 PH SX

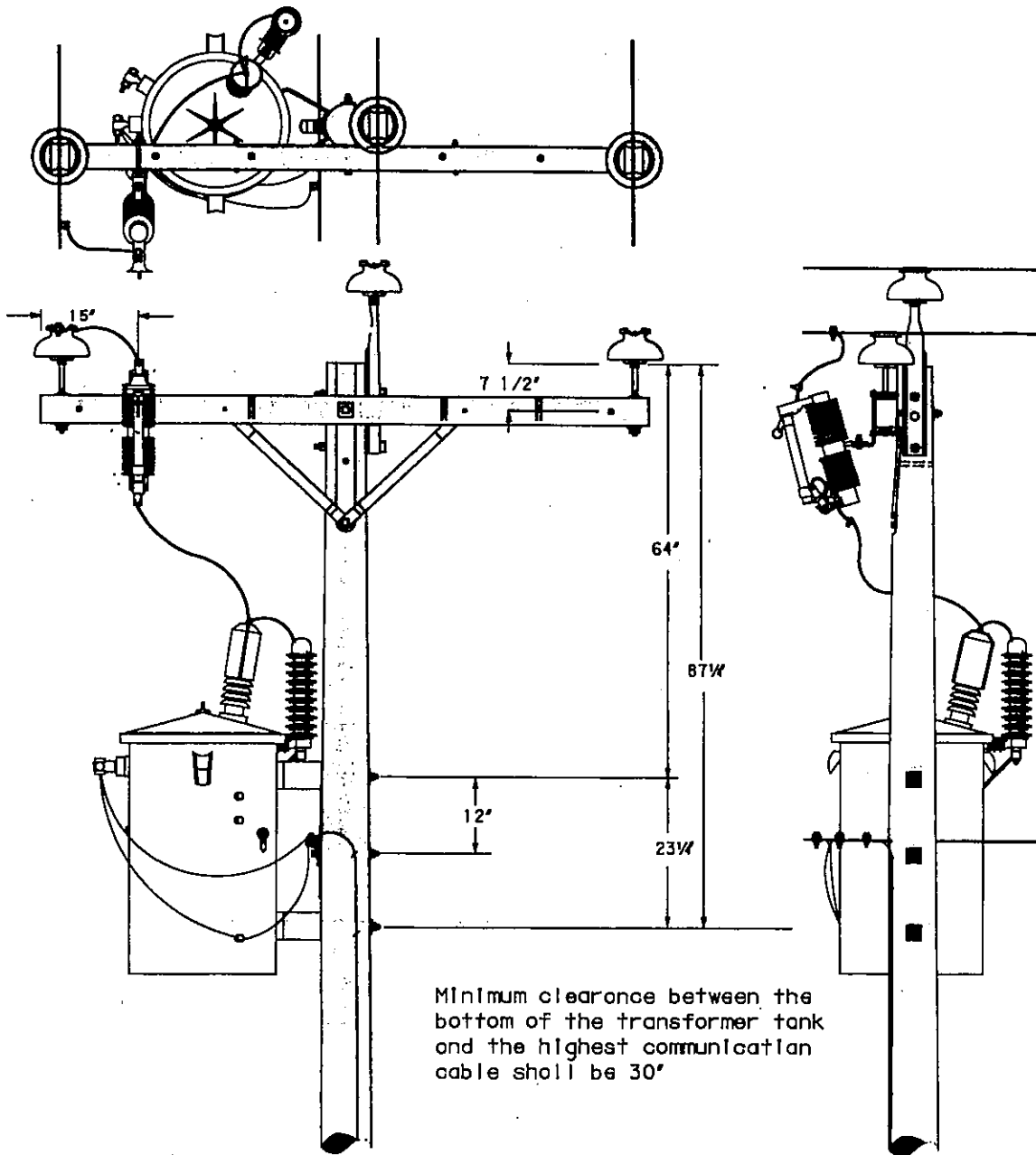
PAGE
343-5B

NO.	REVISION	DATE	CK.
	Chgd page from 343-4B to 343-5B	05/15/08	



DESIGNED	HEP
DRAWN	GRG
DATE	05/02/90

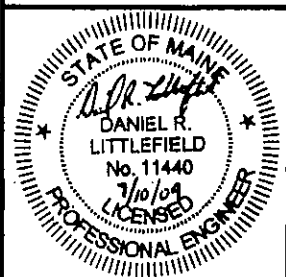
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Minimum clearance between the bottom of the transformer tank and the highest communication cable shall be 30'

NOTES

1. This installation shall be used for the mounting of single phase transformers (100 and 167KVA) on all 3 phase 7200/12470 or 20/34.5 KV lines.
2. Transformers should be mounted on the street side of the pole or may be quarter mounted if neutral taps or guys interfere with the installation.
3. Tap mounting bracket of transformer must be located above the neutral.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 343-6A

1 PH XFMR 10-50KVA ON 3PH SX 12KV

Macro: C6MX1SX5012

CU Number	Quantity - CU/Mat	Description	Material ID	
C6XD1	1	GENERIC SINGLE PHASE O/H TRANSFORMER		
		1	GENERIC TRANSFORMER	600086XXXX
C6XDIP1PH	1	O/HXMR, INSTALLATION PKG, 1 PHASE		
		4	CONNECTORS	600011XXXX
		7	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		10	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6DXGA	1	O/HXMR, GROUND ASSEMBLY		
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MX1 SX5012

DESCRIPTION
1 PH. XFMR 10-50KVA ON 3 PH SX 12KV

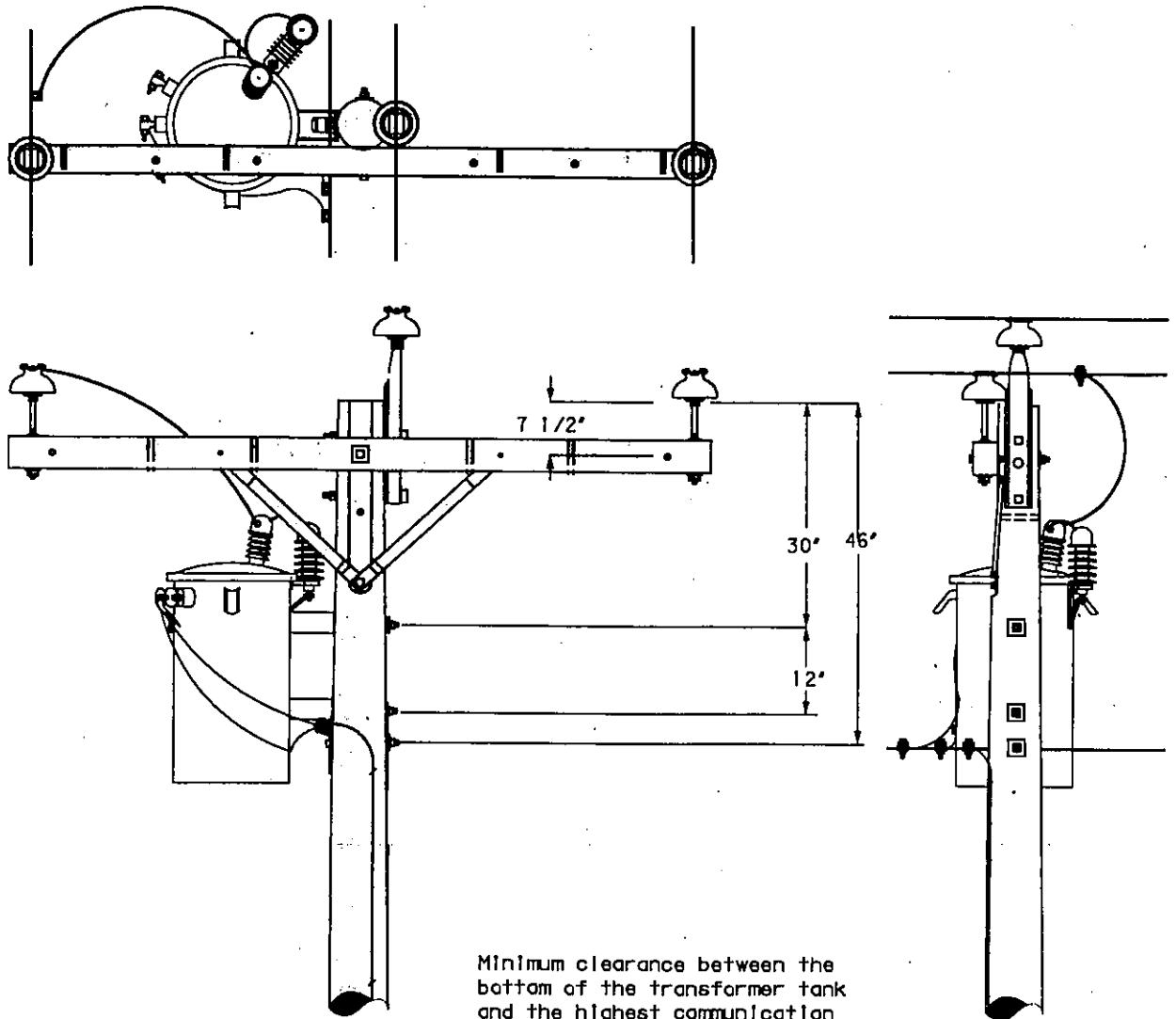
PAGE
343-6B

NO.	REVISION	DATE	BY
1	Chgd page from 343-5B to 343-6B	06/18/09	



DESIGNED	HEP
DRAWN	GRS
DATE	05/02/90

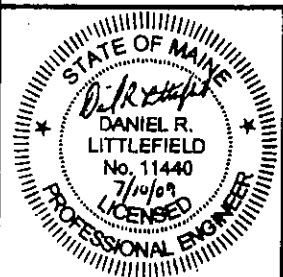
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Minimum clearance between the bottom of the transformer tank and the highest communication cable shall be 30'

NOTES

1. This installation shall be used for the mounting of single phase transformers (10 to 50 KVA) on all 3 phase 7200/12470 volt lines.
2. Transformers should be mounted on the street side of the pole but may be quarter mounted if neutral taps or guys interfere with the installation.
3. Top mounting bracket of transformer must be located above the neutral.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 343-7A

1 PH XFMR 10-50KVA ON 3PH SX 34KV

Macro: C6MX1SX5034

<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>	
C6XD1	1	GENERIC SINGLE PHASE O/H TRANSFORMER		
		1	GENERIC TRANSFORMER	600086XXX
C6XDIP1PH	1	OHXMR, INSTALLATION PKG, 1 PHASE		
		4	CONNECTORS	600011XXX
		7	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		10	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6DXGA	1	OHXMR, GROUND ASSEMBLY		
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXX
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
CGMX1 SX5034

DESCRIPTION
1 PH XFMR 10 TO 50 KVA ON 3 PH SX 34KV

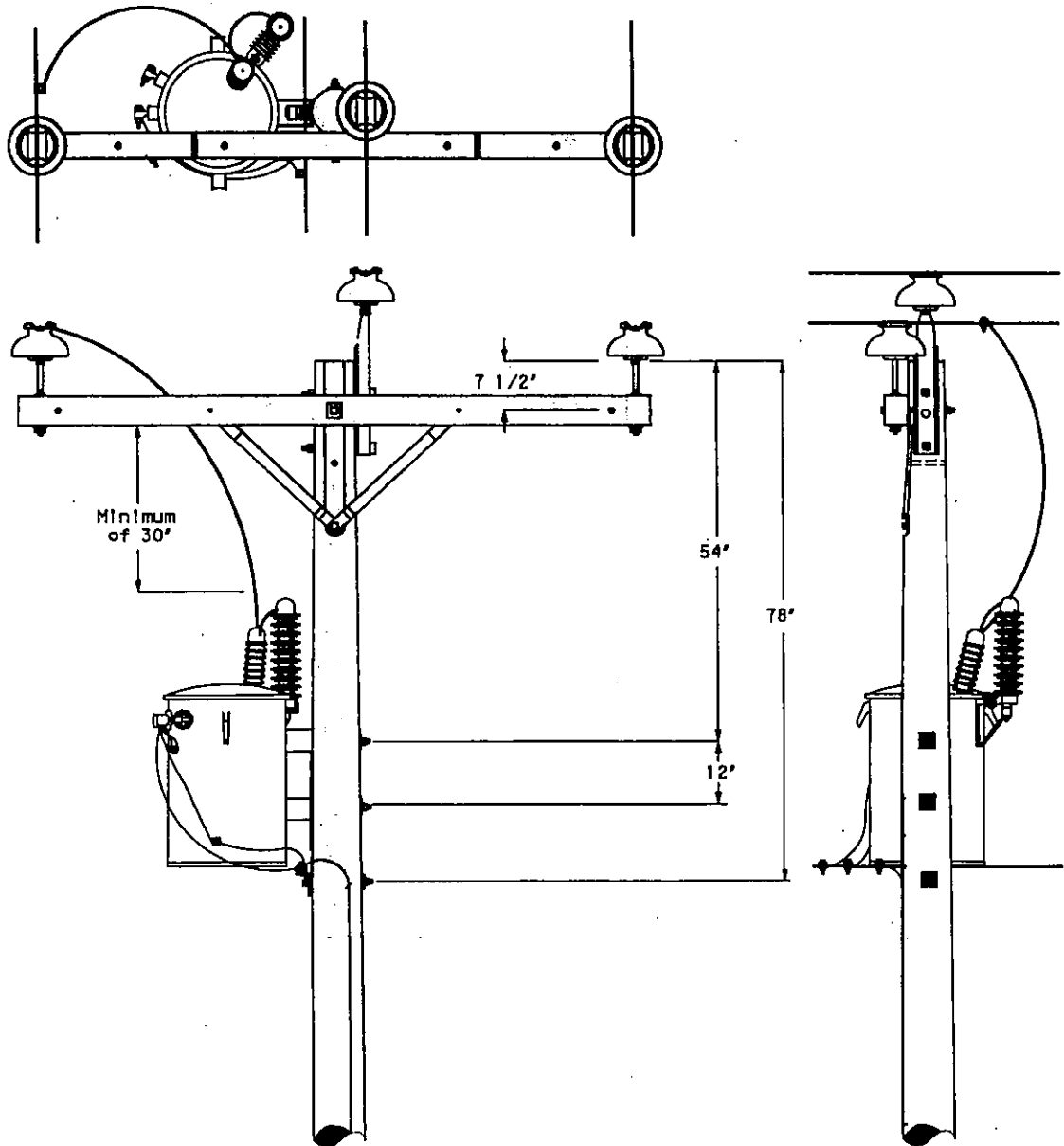
PAGE
343-7B

REV	DATE	CL
1	05/15/09	
1 Chgd page • from 343-6B to 343-7B		



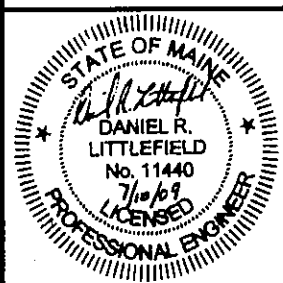
DESIGNED	HEP
DRAWN	GRG
DATE	05/02/90

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTES

1. This installation shall be used for the mounting of single phase transformers (up to 50 KVA) on 3 phase 20/34.5 KV lines.
2. Transformers should be mounted on the street side of the pole or may be quarter mounted if neutral taps or guys interfere with the installation.
3. Top mounting bracket of transformer must be located above the neutral.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6CDINSPT	6	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1 INSULATORS	6000310XXX
C6CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
		1 XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDPC	3	CONNECTOR, PRIMARY	
		1 CONNECTORS	600011XXXX
C6PDXA10	2	XARM, 6PINB, 10 FT	
		1 XARM 6 PIN B	6000740540
C6PDXADH	1	XARM, DOUBLE, HARDWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 28 IN	6000272670
		10 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		6 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6XD1	3	GENERIC SINGLE PHASE O/H TRANSFORMER	
		1 GENERIC TRANSFORMER	600086XXXX
C6XDIPCM	1	OHXMR, INSTALLATION PKG, CLUSTER MOUNT	
		21 CONNECTORS	600011XXXX
		15 WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		1 B LAG GALV FET 1/2 X 4	6000272540
		6 WILDLIFE PROTECTOR	60003126XX
		20 WIRE NO. 4 CU GROUND BARE STRANDED S D	751162
C6XDLAMKIT27	3	OHXMR ARRESTOR MOUNTING KIT 27KV	
		1 CMP Conv Transformer arrester kit 35 KV	6000461435
C6XDO	1	OHXMR MOUNTS & PLATES GENERIC (SELECT FR	
		1 OHXMR MOUNTS & PLATES (SELECT FROM CUCT)	600067056X
C6DXAMB	3	XARM MOUNTING BRACKET	
		1 BKT EQUIP MTG CROSSARM	6000620100
C6DXCO	3	TRANSFORMER FUSED CUTOUT (GENERIC)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000461XXX
C6DXGA	1	OHXMR, GROUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		1 ROD GROUND GALV 3/4X6FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751162

MACRO
C6MX3P34K167CM

DESCRIPTION
3PH 34KV CLUSTER MOUNT UP TO 3-167KVA

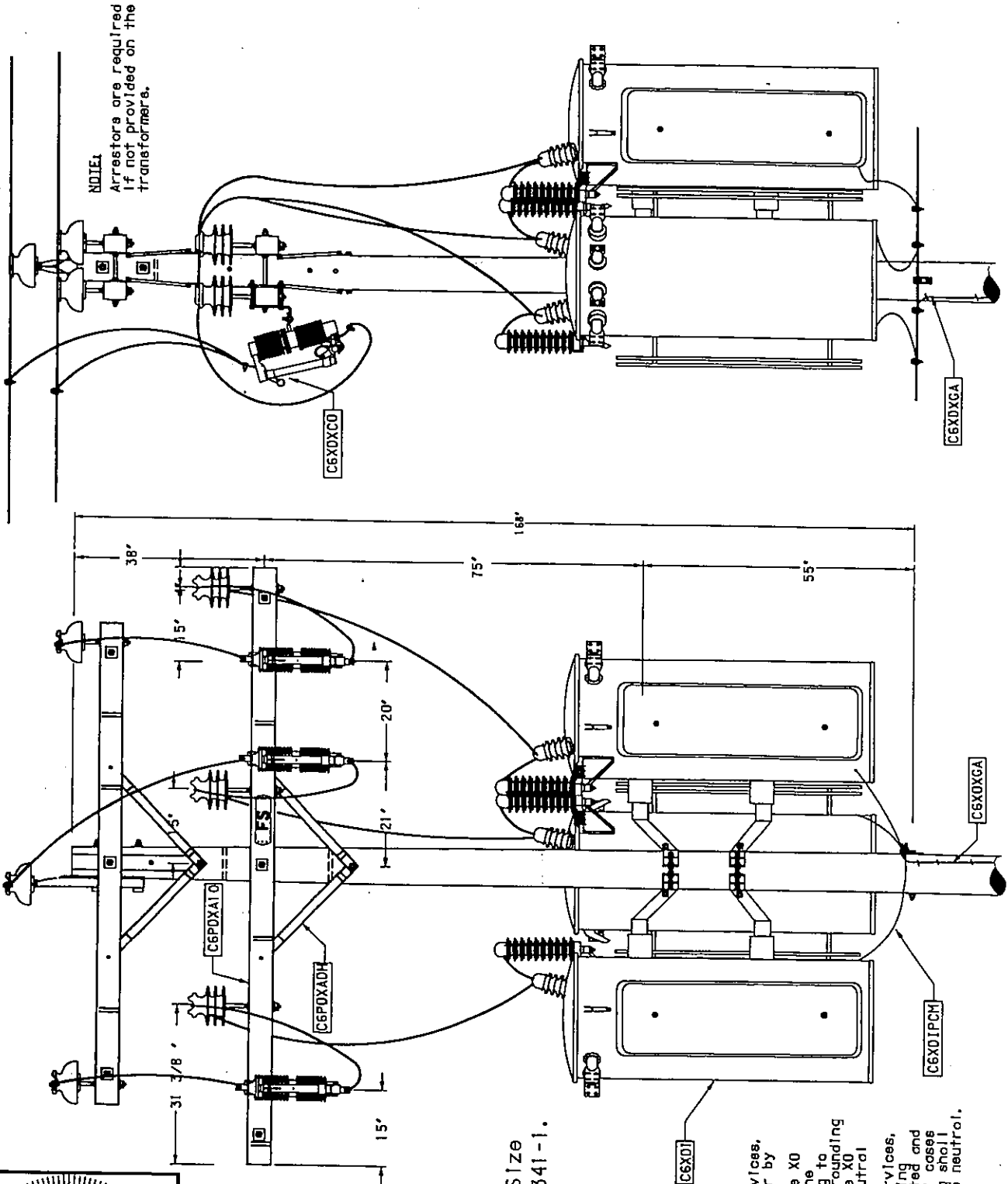
PAGE
343-8B

NO.	REVISION	DATE	CHK.
1	Chgd page # from 343-7B to 343-8B	05/15/09	



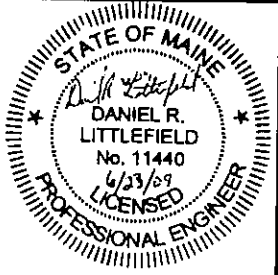
DESIGNED	GRG
DRAWN	
DATE	9/21/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



For Fuse Size
See Page 341-1.

NOTE:
For four wire services, ground transformer by installing ground conductor from the XO bushing through the tank grounding lug to the neutral and grounding conductor from the XO bushing to the neutral.
For three wire services, leave the XO bushing completely insulated and ungrounded. In all cases tank grounding lug shall be grounded to the neutral.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDPC	3	CONNECTOR, PRIMARY	
		1 CONNECTORS	600011XXXX
C6XD1	3	GENERIC SINGLE PHASE O/H TRANSFORMER	
		1 GENERIC TRANSFORMER	600086XXXX
C6XDIPCM	1	OHXMR, INSTALLATION PKG, CLUSTER MOUNT	
		21 CONNECTORS	600011XXXX
		15 WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		1 B LAG GALV FET 1/2 X 4	6000272540
		6 WILDLIFE PROTECTOR	60003128XX
		20 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6XDLAMKIT15	3	OHXMR ARRESTOR MOUNTING KIT 10KV	
		1 CMP Conv Transformer arrester kit 15 KV	6000491412
C6XDD	1	OHXMR MOUNTS & PLATES GENERIC (SELECT FR	
		1 DHXMR MOUNTS & PLATES (SELECT FROM CUCT)	600067056X
C6DXAMB	3	XARM MOUNTING BRACKET	
		1 BKT EQUIP MTG CROSSARM	6000620100
C6DXCO	3	TRANSFORMER FUSED CUTOUT (GENERIC)	
		1 FUSED CUTOUT (SELECT FRDM CUCT)	6000491XXX
C6DXGA	1	OHXMR, GROUND ASSEMBLY	
		1 CDNN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MX3SX167CM12

DESCRIPTION
3PH TO 167KVA CLUSTER MT ON SX 12KV

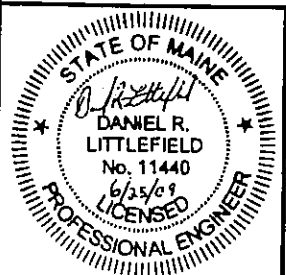
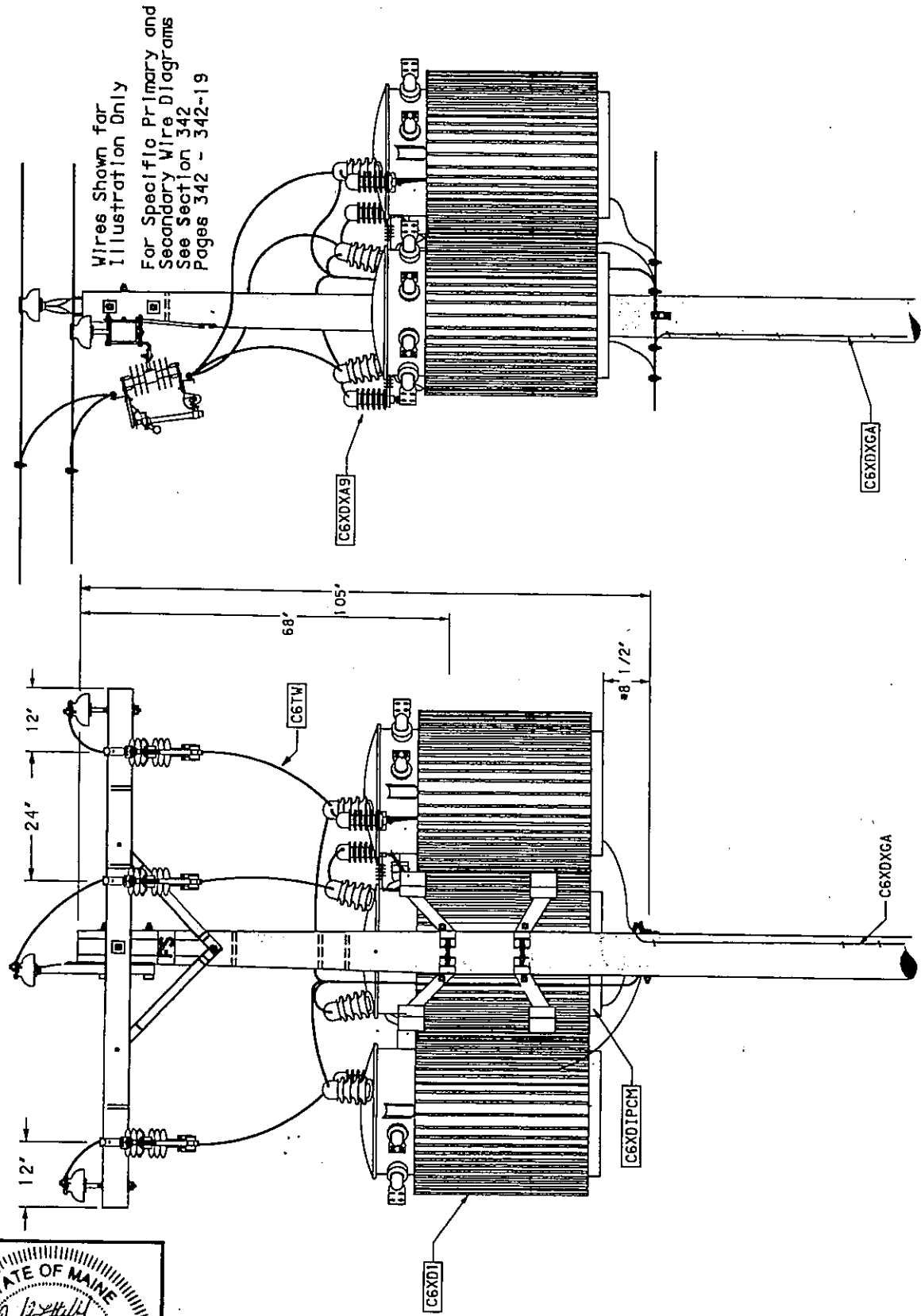
PAGE
343-9B

NO.	REVISION	DATE	CHK.
1	Original top plate to meet, page # from 343-7, 18 to 343-9B	06/25/09	



DESIGNED	ORIGINAL
DRAWN	GRG
DATE	9/16/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Matl	Description	Material ID	
C6XD3	1	THREE PHASE O/H TRANSFORMER		
		1	GENERIC TRANSFORMER	600086XXXX
C6XDIP3PH	1	OHXMR, INSTALLATION PKG, 3 PHASE		
		6	CONNECTORS	600011XXXX
		15	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		2	BOLT, THRU 3/4 IN. ALL SIZES	60002721XX
		2	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		6	WILDLIFE PROTECTOR	60003128XX
		12	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6DXLAMKIT15	3	OHXMR ARRESTOR MOUNTING KIT 10KV		
		1	CMP Conv Transformer arrester kit 15 KV	6000491412
C6DXAMB	3	XARM MOUNTING BRACKET		
		1	BKT EQUIP MTG CROSSARM	6000620100
C6DXCO	3	TRANSFORMER FUSED CUTOUT (GENERIC)		
		1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6DXGA	1	OHXMR, GROUND ASSEMBLY		
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MX3SXUC12

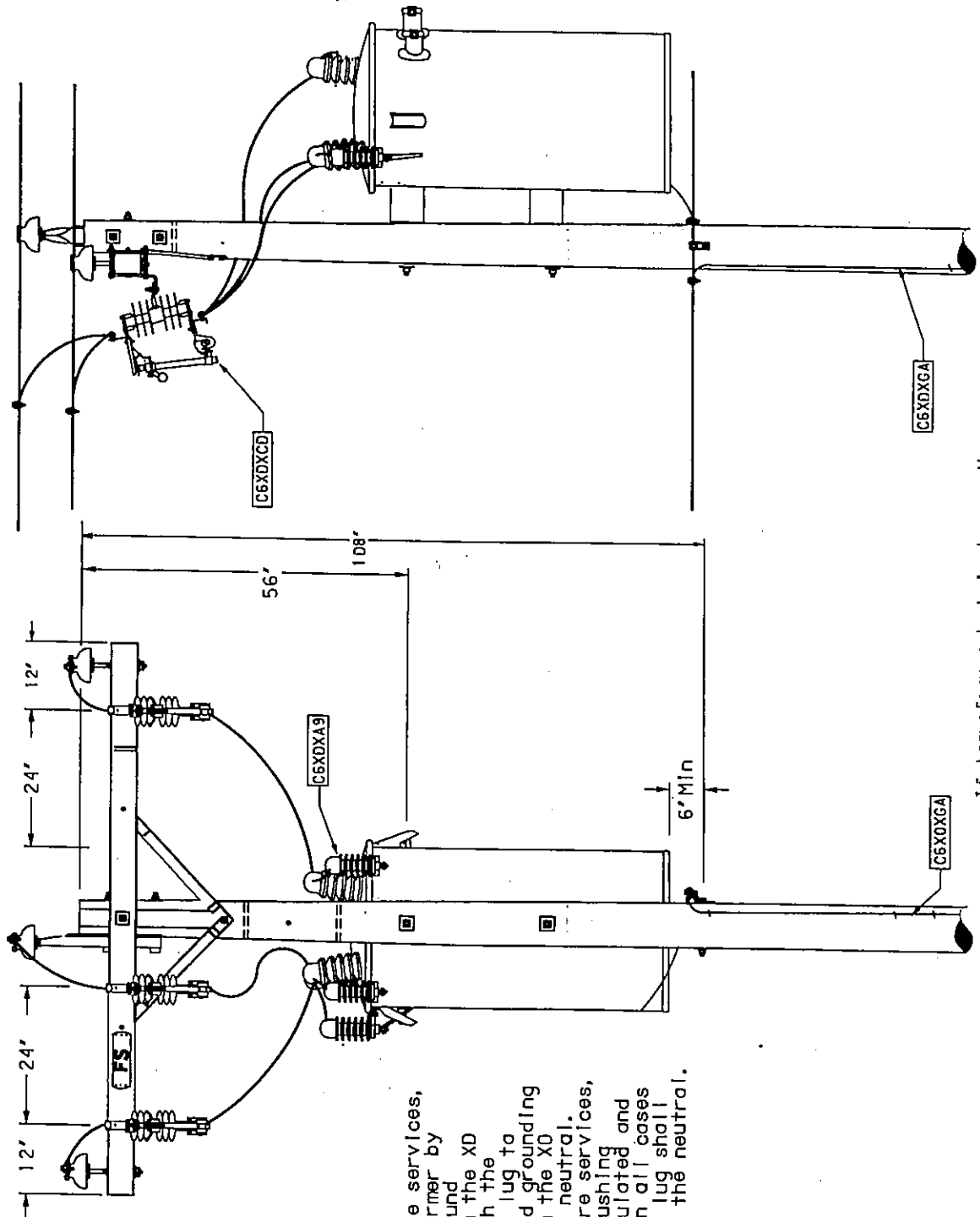
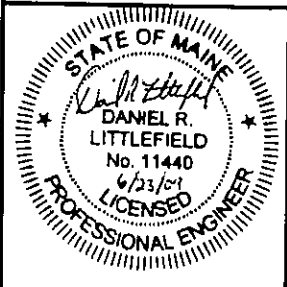
DESCRIPTION
3PH XFMR UNIT CONV ON SX STRUCTURE 12KV

PAGE
343-10B

NO.	REVISION	DATE	CC.
1	Chgd page * from 343-9B to 343-10B	05/15/09	

DESIGNED	ORIGINAL
DRAWN	GRC
DATE	9/27/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
For four wire services,
ground transformer by
installing ground
conductor from the XD
bushing through the
tank grounding lug to
the neutral and grounding
conductor from the XO
bushing to the neutral.
For three wire services,
leave the XO bushing
completely insulated and
ungrounded. In all cases
tank grounding lug shall
be grounded to the neutral.

If transformer tank is longer than
48', locate the neutral 6' below tank



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	22	DEADEND COND. GENERIC (SELECT FROM CUCT)	
		DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6CDEB5/8	4	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
		BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
		WSH 2 TURN SPR GALV 5/8	6000274800
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6CDEH5/8	18	EYE NUT ROUND 5/8 INCH	
		NUT EYE ROUND 5/8 TAP	6000273430
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDHS1/2	18	SHACKLE 1/2 IN W 5/8 IN PIN	
		SHACKLE 1/2 IN W 5/8 PIN	6000274320
C6CDINSPT15TW	9	INSULATOR PIN TYPE F 15KV TREE WIRE	
		WIRE TIE #4AL MIL BTPR	6000205358
		INS PIN TYPE TREE 15KV	6000310352
C6CDINSPT27TW	12	INSULATOR PIN TYPE 27KV TREE WIRE	
		WIRE TIE #4AL MIL BTPR	6000205358
		INS PIN TYPE TREE 27KV	6000310488
C6CDINSSDE15	9	INSULATOR DEADEND/SUSPENSION 15KV-COMPOS	
		INSULATOR 15KV COMP D/E	6000310640
C6CDINSSDE35	9	INSULATOR DEADEND/SUSPENSION 35KV-COMPOS	
		INSULATOR 35KV COMP D/E	6000310700
C6CDIPIN	21	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	60002730XX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDPC	21	CONNECTOR, PRIMARY	
		CONNECTORS	600011XXXX
C6CDTW	50	TAPWIRE GENERIC (SELECT FROM CUCT)	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PD	2	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SELECT FROM CUCT)	600074XXXX
C6PDA	2	ANCHOR, GENERIC (SELECT FROM CUCT)	
		ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	2	GUY, GENERIC (SEE TABLE PAGE 309-6)	
		GUY'S (SEE TABLE PAGE 309-6)	60002527XX
C6PDGSLFA78	1	GUY STRAIN LINK ASSEMBLY, F/G 78IN	
		INS GY STN 30K LB 78IN	6000251800
		PLATE GUY ATT FG INS	6000251800
		BOLT, THRU 5/8 IN, ALL LENGTHS	600027208X
		B LAG GALV FET 1/2 X 4	6000272540
		WSH 2 TURN SPR GALV 5/8	6000274800
		WSH CURV GALV 2 1/2	6000274620
C6PDPLATFORM	1	PLATFORM, ALUMINUM, 16 FT	
		BOLT, THRU 3/4 IN, ALL SIZES	60002721XX
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
		PLATFORM TRN AL 16 FT	6000670261
C6PDPTIMBER	2	PLATFORM TIMBER, 16 FT	
		BOLT, THRU 3/4 IN, ALL SIZES	60002721XX
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
		PLATFORM TIMBER 16 FOOT	6000740930
C6PDXA8	8	XARM, SPINB, 8FT	
		XARM 8PIN 8	6000740510
C6PDXADH	4	XARM, DOUBLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, SPACE, 5/8 IN, ALL SIZES	600027217X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 20 IN	6000272670
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6XD1	3	GENERIC SINGLE PHASE OH TRANSFORMER	
		GENERIC TRANSFORMER	600066XXXX
C6XDCU	40	COPPER WIRE STRANDED GENERIC	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6XDIP1PH	3	OHXMR, INSTALLATION PKG, 1 PHASE	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		BOLT, THRU 5/8 IN, ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6XDLAMKIT15	3	OHXMR, ARRESTOR MOUNTING KIT 10KV	
		CMP Conv Transformer arrester kit 15 KV	6000491412
C6XDLAMKIT27	3	OHXMR, ARRESTOR MOUNTING KIT 27KV	
		CMP Conv Transformer arrester kit 35 KV	6000491435
C6XDTW	60	XFORMER TAP WIRE GENERIC (SELECT FROM CU)	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6XDIGA	2	OHXMR, GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		ROD DROUND GALV 3/4X8FT	6000251860
		STAPLES GALV F4 GRD WR	6000274402
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

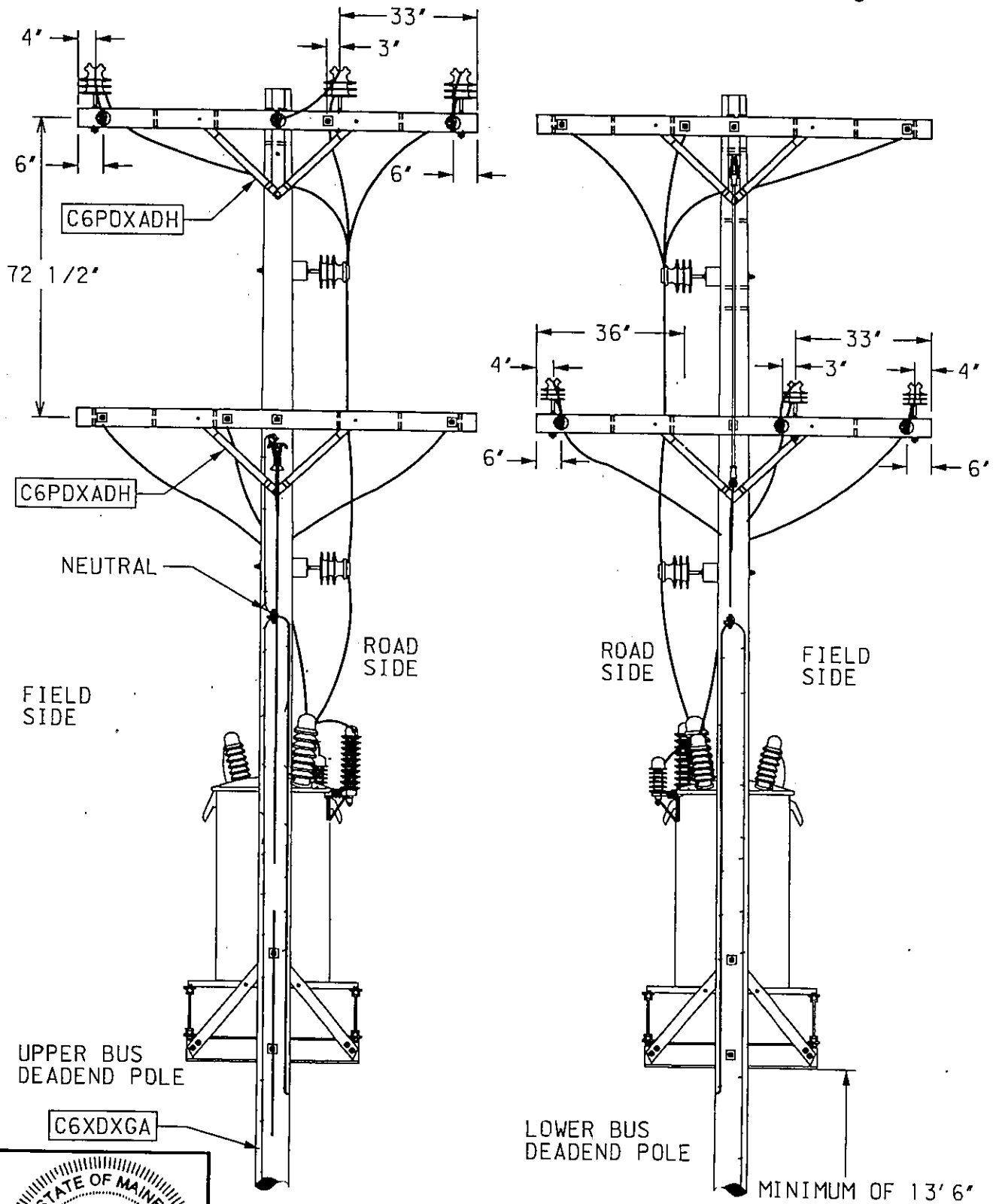
MACRO
C6MX3PMSDXB

DESCRIPTION
3PH PLATFORM MOUNTED S/D XFORMER BANK

PAGE
343-11B

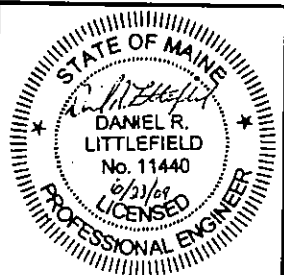
Page 1 of 3

NO.	REVISION	DATE	BY
1	Chgd page from 343-98 to 343-11B	06/13/09	



ORIGINAL	GRC
DESIGNED	
DRAWN	
DATE	9/1/93

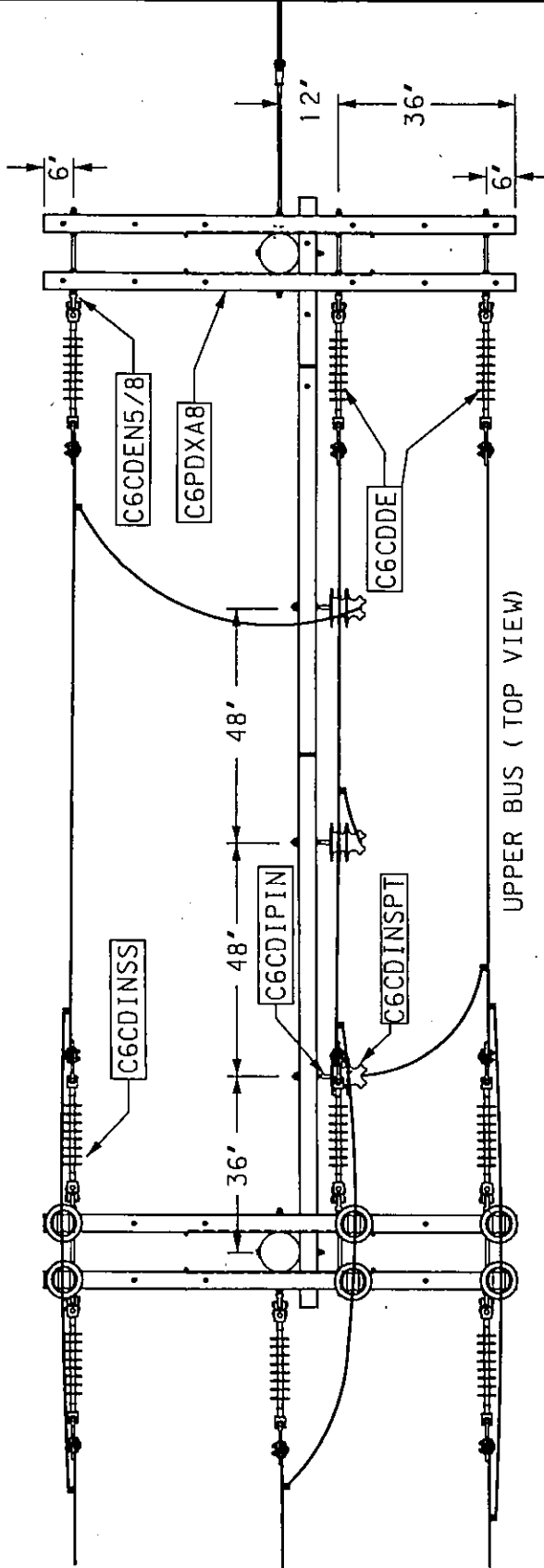
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



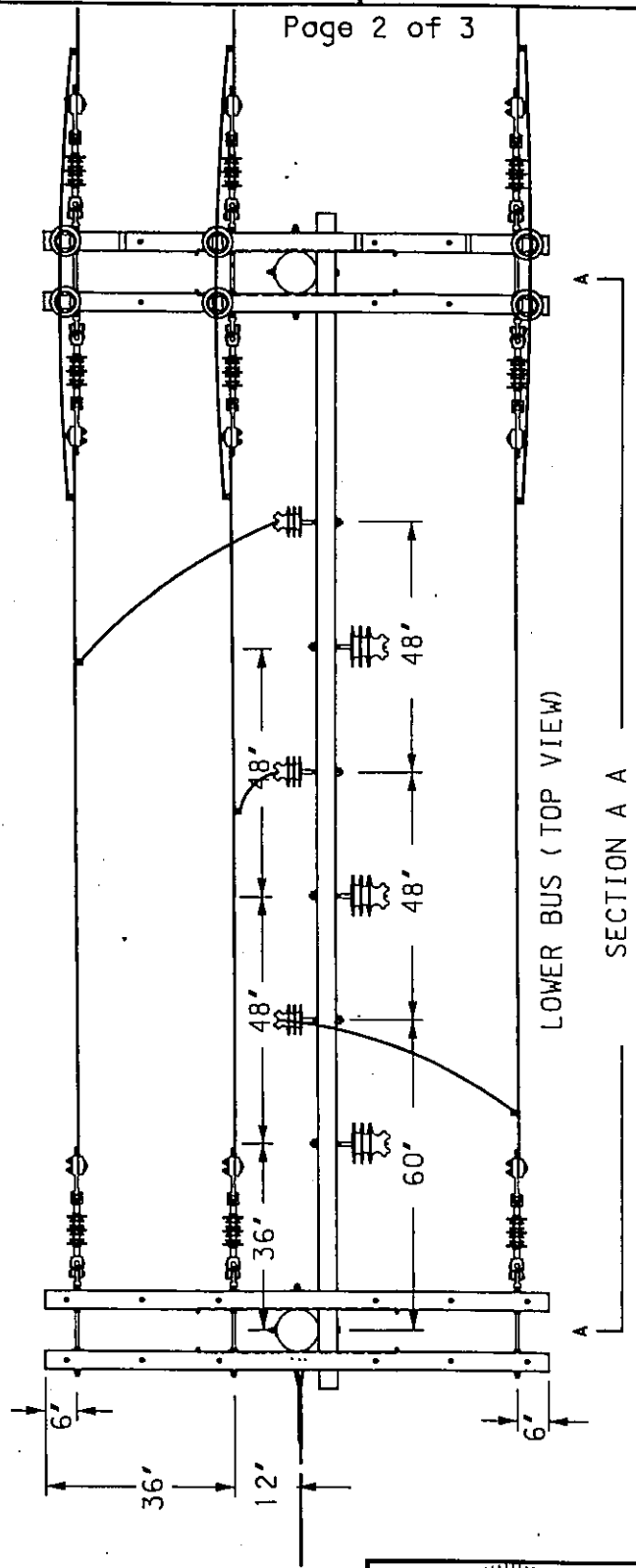
CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Page 2 of 3



UPPER BUS (TOP VIEW)



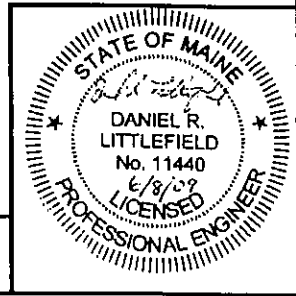
LOWER BUS (TOP VIEW)

SECTION A A

BE REVIEWED UNDER
CADD SYSTEM ONLY

DRAWN	REC
DATE	02/24/06

Energy East



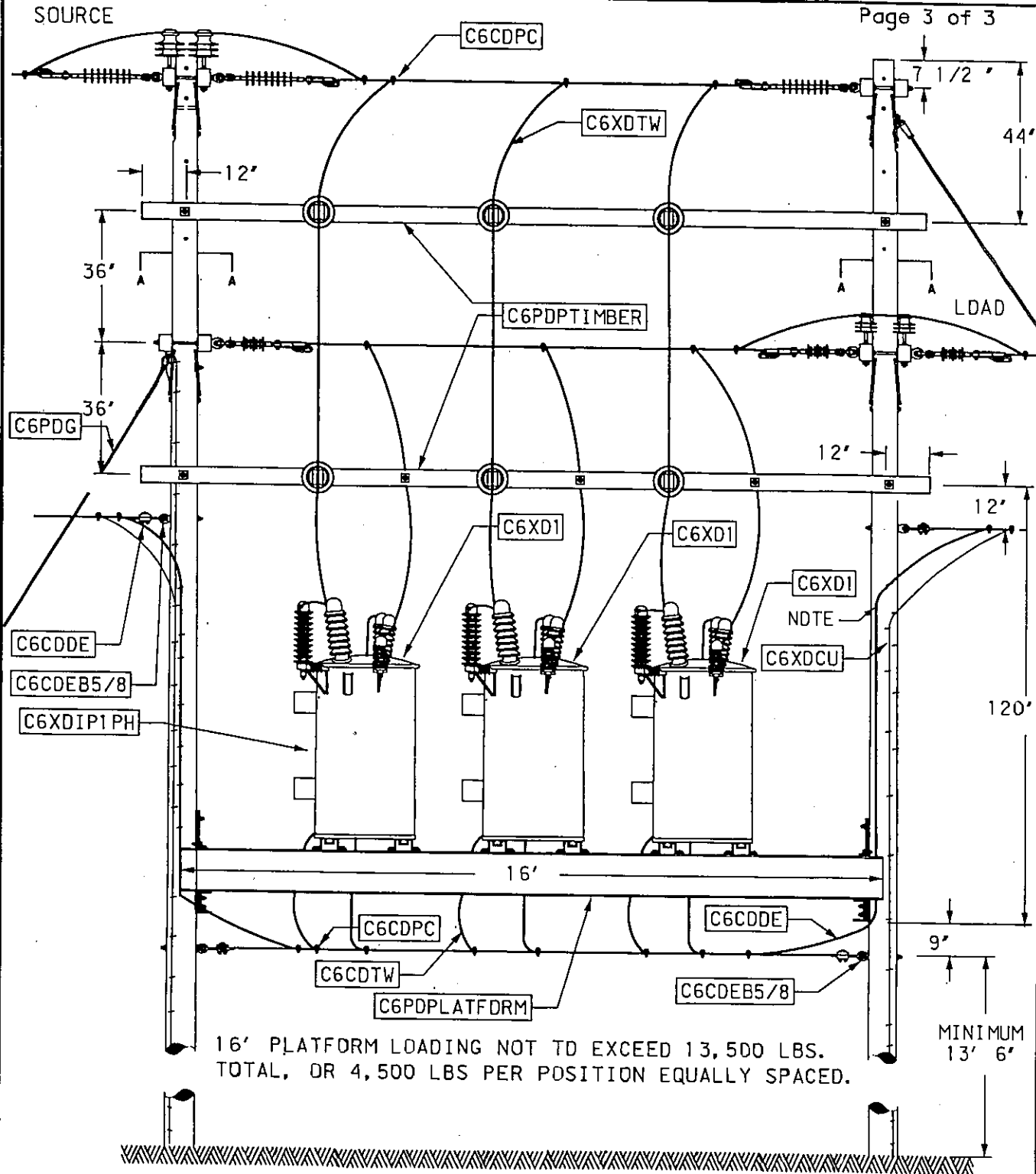
MACRO
C6MX3PMSDXB

DESCRIPTION
3PH PLATFORM MOUNTED S/D XFORMER BANK

PAGE
343-11D

Page 3 of 3

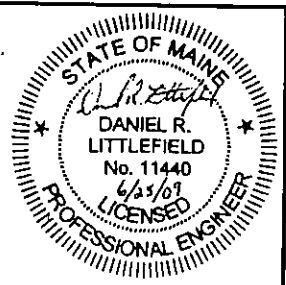
NO.	REVISION	DATE	CR.
	1	06/25/09	
	1 Digit page # from 343-90 to 343-110, added to platform note		



16' PLATFORM LOADING NOT TO EXCEED 13,500 LBS. TOTAL, OR 4,500 LBS PER POSITION EQUALLY SPACED.

NOTE:

For 336.4 Primary Neutral the H2 Bushing and Transformer Tank Ground shall be Banded with 4/D Copper Tap Wire.
For 1/D AAAC Primary Neutral the H2 Bushing and Transformer Tank Ground shall be Banded with #2 Copper Tap Wire.



ORIGINAL	DESIGNED
REDRAWN	DRAWN
GRG	DATE
9/7/93	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDSCGUARDS	1	GUARD LINE CLIP ON 1" X 8' STANDARD	
		1	GUARD LINE CLIP ON STAN
			6000220922
C6XD1	1	GENERIC SINGLE PHASE O/H TRANSFORMER	
		1	GENERIC TRANSFORMER
			600086XXXX
C6XOIP1PH	1	OHXMR, INSTALLATION PKG, 1 PHASE	
		4	CONNECTORS
			600011XXXX
		7	WIRE #2 CU 7 STRAND SD RHW USE OR RHH
			6000207360
		2	BOLT, THRU 5/8 IN. ALL LENGTHS
			600027208X
		2	WSH 2 TURN SPR GALV 5/8
			6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES
			60002748XX
		10	WIRE NO. 4 CU GROUND BARE STRANDED S D
			751182
C6DXDGA	1	OHXMR, GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN
			6000112662
		1	CONNECTORS
			600011XXXX
		1	ROD GROUND GALV 3/4X8FT
			6000251860
		9	STAPLES GALV F/4 GRD WR
			6000274402
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D
			751182

MACRO
C6MX1 SC

DESCRIPTION
1 PH XFMR TO 50 KVA TANG SPCR CBL STR 12KV

PAGE
344-1B

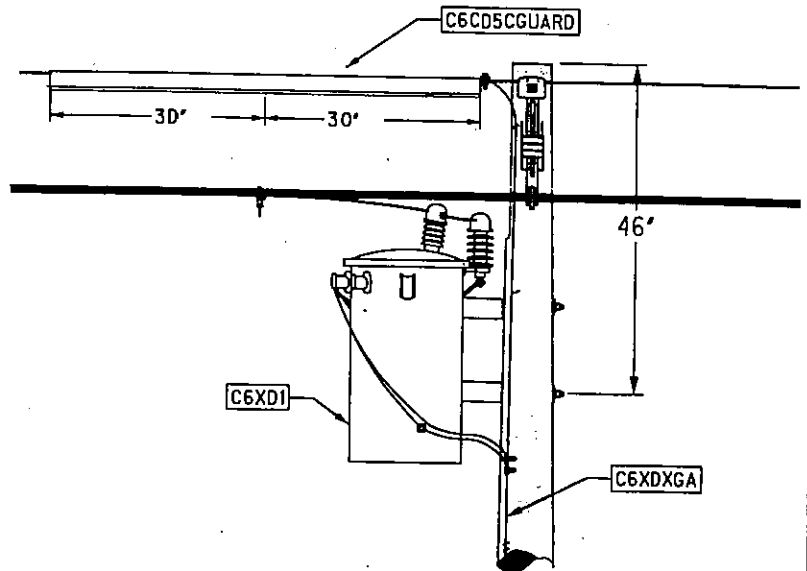
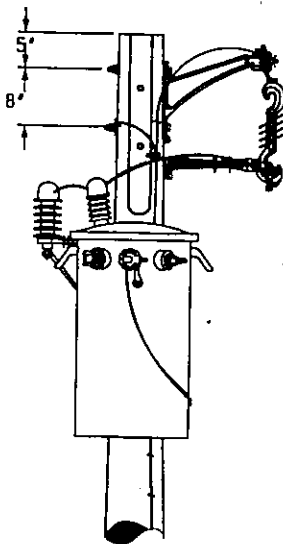
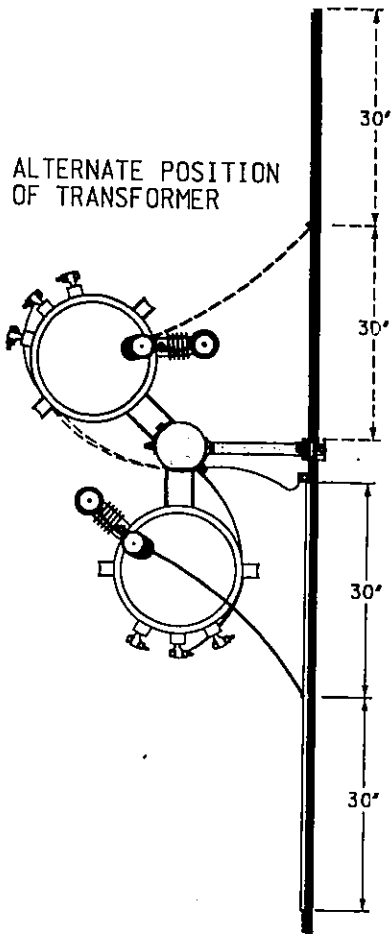
DESIGNED	REVISOR	REVISION
DRAWN	CS	
DATE	REC	
	02/24/06	



DESIGNED	JEC
DRAWN	GRG
DATE	5/2/95

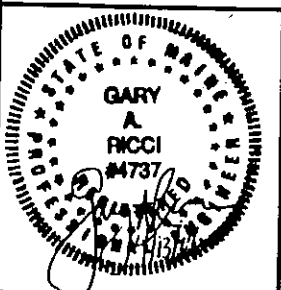
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

ALTERNATE POSITION
OF TRANSFORMER



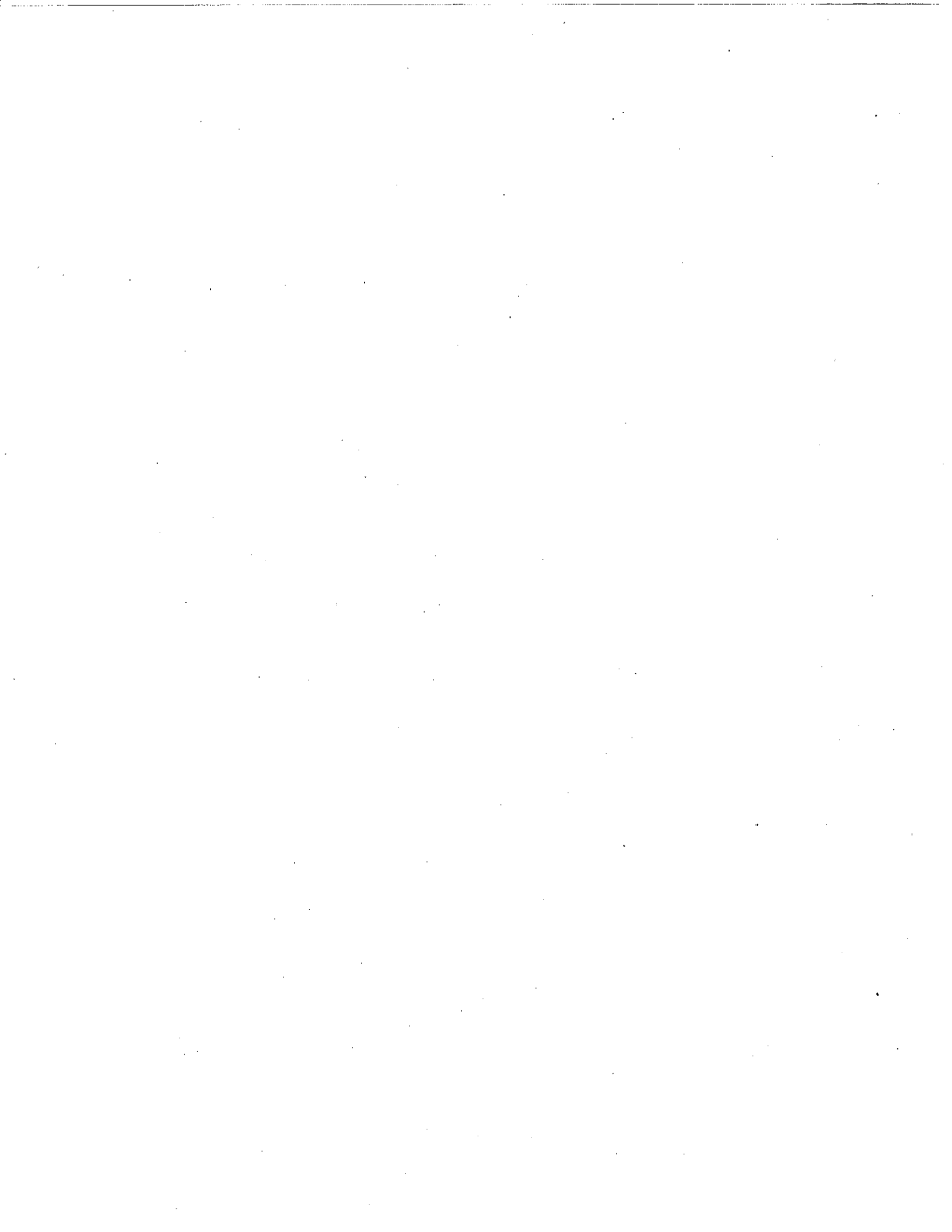
Notes:

1. Transformer may be mounted as shown or may be quarter mounted away from spacer cable on opposite side of pole, as shown in Alternate Position of Transformer.
2. Interconnect primary neutral, transformer secondary neutral, and tank ground, as shown above. Pole ground must connect directly to primary neutral messenger with its own connector.
3. This installation is for CSP transformers.
4. The bottom of any grounded equipment case shall not be located less than 30 inches above highest communication attachment.
5. See Page 305-5 for location of service.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

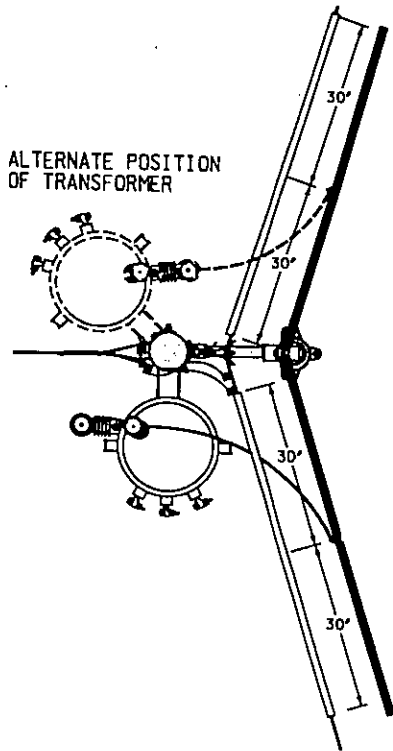


MACRO
C6MX1 SC

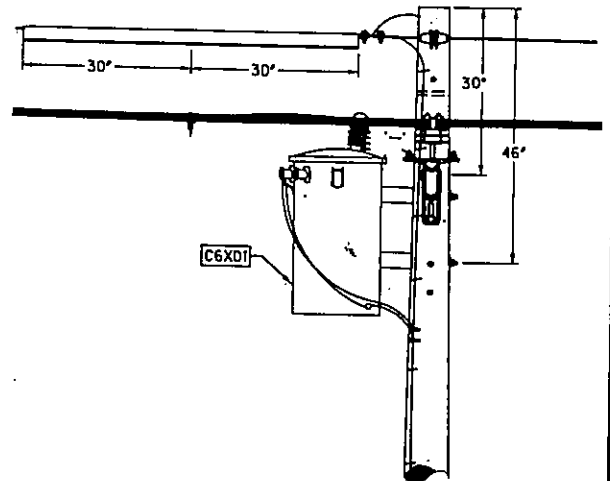
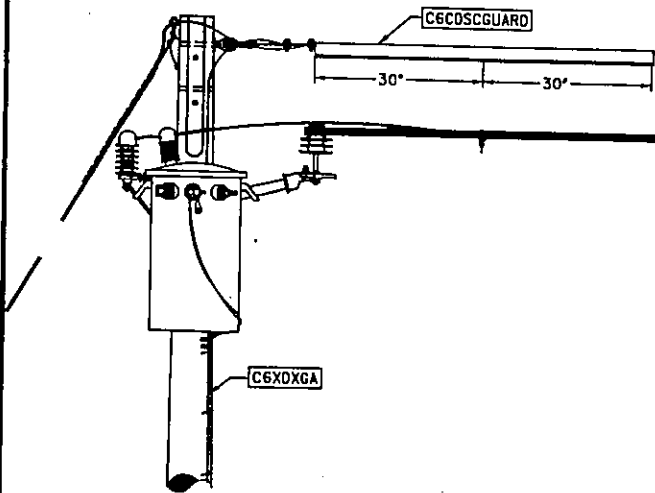
DESCRIPTION
1 PH XFMR TO 50 KVA ON SS SPACER CBL STRUCT.

PAGE
344-1C

DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS		
DATE	REC		
	02/24/06		



DESIGNED	JEC
DRAWN	GRG
DATE	5/25/95



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Notes:

1. Transformer may be mounted as shown or may be quarter mounted away from spacer cable on opposite side of pole, as shown in Alternate Position of Transformer.
2. Interconnect primary neutral, transformer secondary neutral, and tank ground, as shown above. Pole ground must connect directly to primary neutral messenger with its own connector.
3. This installation is for CSP transformers.
4. The bottom of any grounded equipment case shall not be located less than 30 inches above highest communication attachment.
5. See Page 305-5 for location of service.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 344-2A

1PH OHXMR TO 50KVA ON SPACER CBL DE

Macro: C6MX1SCDE

CU Number	Quantity - CU/Mail	Description	Material ID
C6CDPC	1	CONNECTOR, PRIMARY	
		1 CONNECTORS	600011XXXX
C6CDSCGUARDS	1	GUARD LINE CLIP ON 1" X 8' STANDARD	
		1 GUARD LINE CLIP ON STAN	6000220922
C6CDTWC2H	4	TAPWIRE #2 COPPER 600V RHW	
		1 WIRE #2 CU 7 STRAND. SD RHW USE OR RHH	6000207360
C6XD1	1	GENERIC SINGLE PHASE O/H TRANSFORMER	
		1 GENERIC TRANSFORMER	600086XXXX
C6XDIP1PH	1	OHXMR, INSTALLATION PKG, 1 PHASE	
		4 CONNECTORS	600011XXXX
		7 WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		10 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6DXGA	1	OHXMR, GROUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MX1 SCDE

DESCRIPTION
1 PH XFMR TO 50KVA SPACER CBL DE STR

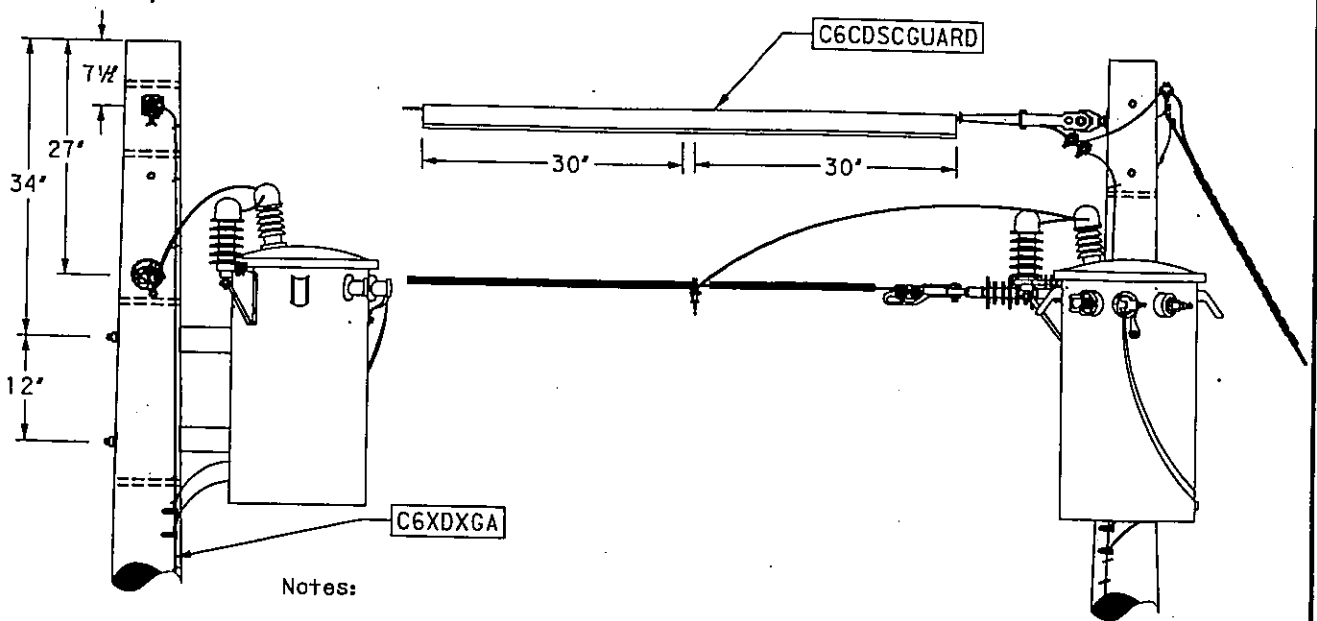
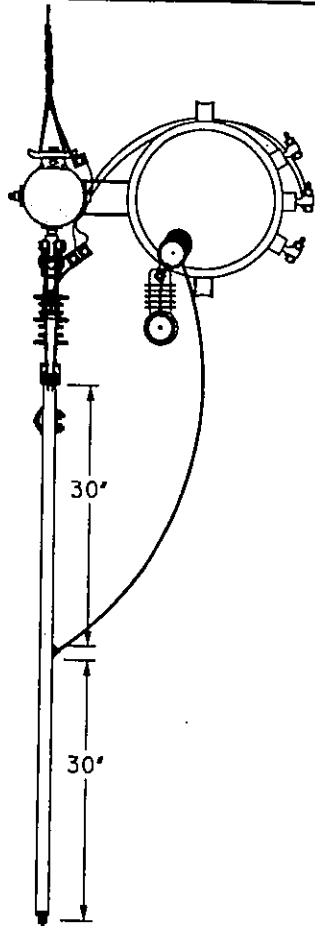
PAGE
344-2B

DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS		
DATE	REC		02/24/06



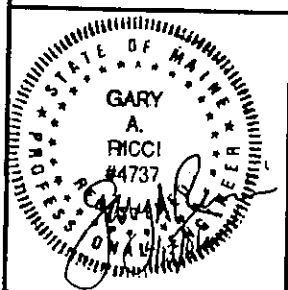
DESIGNED	REVISOR	REVISION	DATE
JEC	GRG		
DRAWN			10/2/95

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Notes:

1. Transformer may be mounted as shown or may be quarter mounted away from spacer cable on opposite side of pole, as shown in Alternote Position of Transformer.
2. Interconnect primary neutral, transformer secondary neutral, and tank ground, as shown above. Pole ground must connect directly to primary neutral messenger with its own connector.
3. This installation is for CSP transformers.
4. The bottom of any grounded equipment case shall not be located less than 30 inches above highest communication attachment.
5. See Page 305-5 for location of service.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	6	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		1 INSULATORS	6000310XXX
C6COIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
		1 XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1 WSH 2 TURN SPR GALV 5/8	6000274600
C6CDSCGUARDS	2	GUARD LINE CLIP ON 1" X 8' STANDARD	
		1 GUARD LINE CLIP ON STAN	6000220922
C6PDXA10	2	XARM, 8PINB, 10 FT	
		1 XARM 8 PIN B	6000740540
C6PDXACH	1	XARM, DOUBLE, HARDWARE ONLY	
		4 B CARR GALV 3/8 X 5	6000270310
		3 BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		2 B LAG GALV FET 1/2 X 4	6000272540
		4 BRACE XARM 28 IN	6000272870
		10 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9 WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6XD1	3	GENERIC SINGLE PHASE O/H TRANSFORMER	
		1 GENERIC TRANSFORMER	600086XXXX
C6XDIPCM	1	OHXMR, INSTALLATION PKG, CLUSTER MOUNT	
		21 CONNECTORS	600011XXXX
		15 WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
		1 B LAG GALV FET 1/2 X 4	6000272540
		6 WILDLIFE PROTECTOR	60003128XX
		20 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6XDLAMKIT27	3	OHXMR ARRESTOR MOUNTING KIT 27KV	
		1 CMP Conv Transformer arrester kit 35 KV	6000491435
C6XDO	1	OHXMR MOUNTS & PLATES GENERIC (SELECT FR	
		1 OHXMR MOUNTS & PLATES (SELECT FROM CUCT)	600067056X
C6DXAMB	3	XARM MOUNTING BRACKET	
		1 BKT EQUIP MTG CROSSARM	6000620100
C6DXCO	3	TRANSFORMER FUSED CUTOUT (GENERIC)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6DXGA	1	OHXMR, GROUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182

MACRO
C6MX3CM34K167S

DESCRIPTION
3PH CLUSTER MOUNT 34KV UP TO 167KVA SPACER CABLE

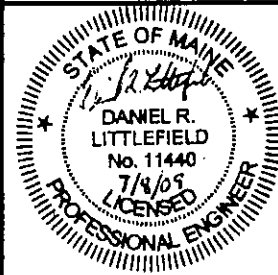
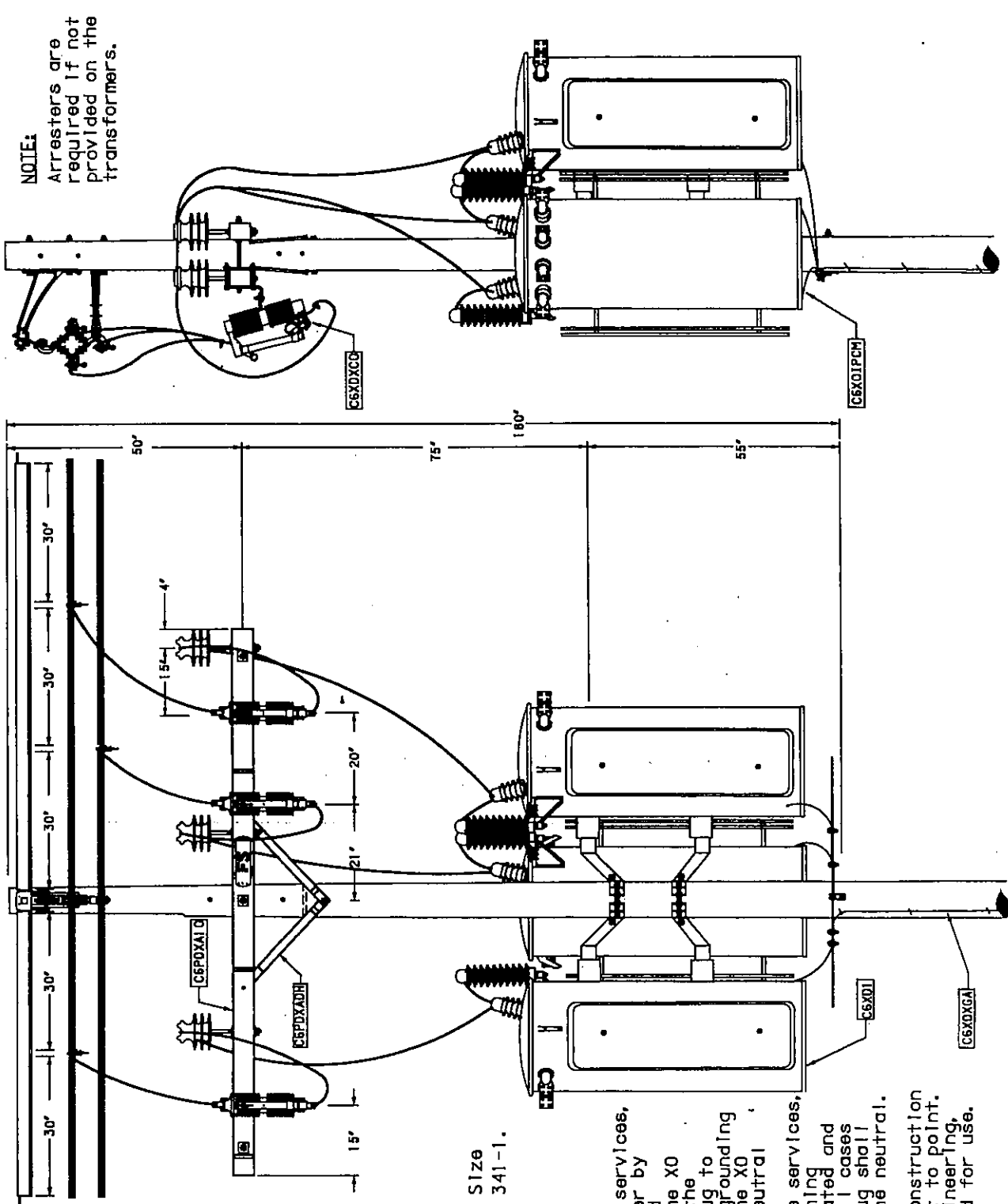
PAGE
344-3B

NO.	REVISION	DATE	BY
1	Chgd title, macro #, neutral dimension, and added note 3	12/31/01	
2	Chgd macro number	07/07/09	



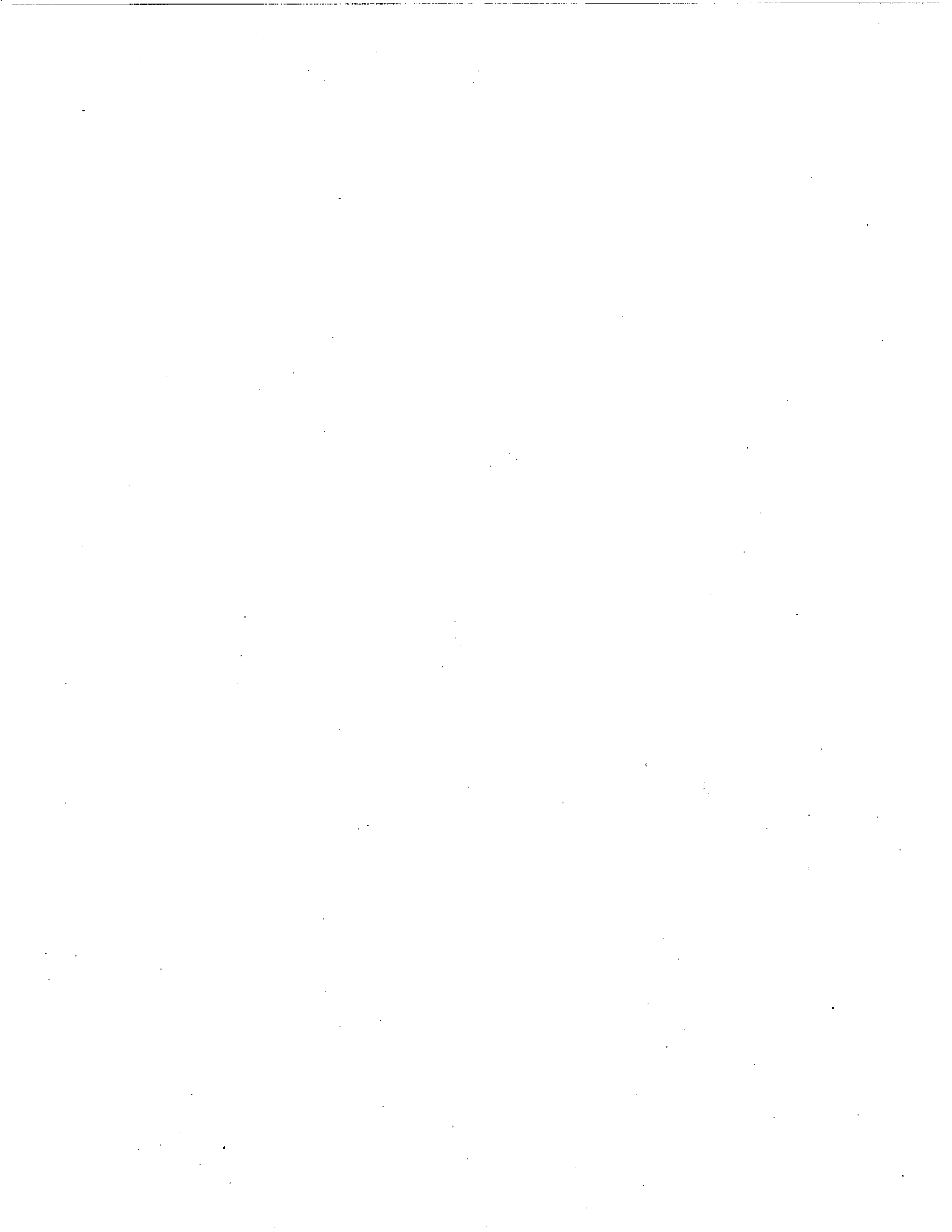
DESIGNED	ORIGINAL
DRAWN	GRG
DATE	9/21/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



For Fuse Size
See Page 341-1.

- NOTE:**
- For four wire services, ground transformer by installing ground conductor from the XO bushing through the tank grounding lug to the neutral and grounding conductor from the XO bushing to the neutral.
 - For three wire services, leave the XO bushing completely insulated and ungrounded. In all cases tank grounding lug shall be grounded to the neutral.
 - 34KV spacer construction is normally point to point. Distribution Engineering Approval required for use.







MACRO	DESCRIPTION GENERAL SERVICES	PAGE 345
-------	---------------------------------	-------------

SERVICE FROM POLE
MOUNTED THREE PHASE TRANSFORMERS

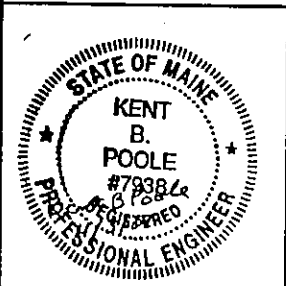
Three phase service from a pole mounted three-phase unit or banked arrangement of transformers, may be provided for total switch(s) capacity not to exceed 1000 amperes. Overhead secondary shall be limited to two-four conductor (three phase conductors and one neutral/messenger) cables 336.4 kcmil or smaller. Underground secondaries consisting of cables with conductors 4/0 awg. and smaller shall have no more than four conductors per phase. Underground secondaries consisting of cables with conductors larger than 4/0 awg. shall have no more than two conductors per phase.

Cable support and positioning brackets may be required at the discretion of the local line supervisor.

DESIGNED	REVISED	REVISED	REVISED
DRAWN			
DATE			

DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	10/29/01

THIS DRAWING SHALL
BE REVISED IN THE
CADD SYSTEM ONLY



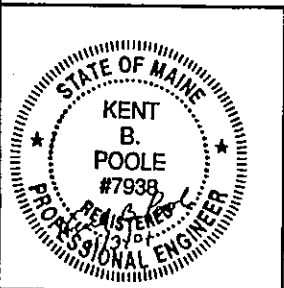
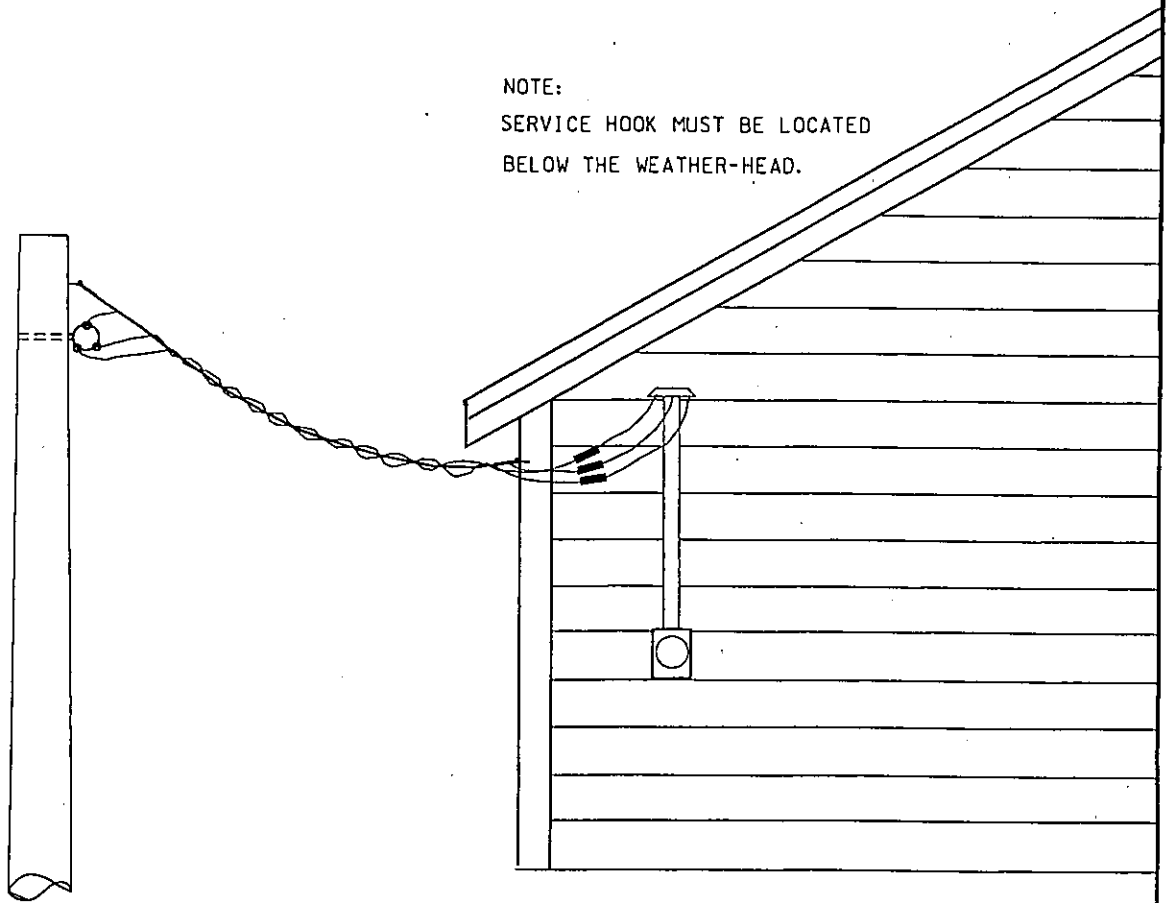


DESIGNED	REVISOR	REVISION	DATE
CS			
REC			
DATE	10/25/01		

DESIGNED	ORIGINAL
GRG	
DRAWN	
DATE	4/1/93

THIS DRAWING SHALL
BE REVISED ON THE
CADO SYSTEM ONLY

NOTE:
SERVICE HOOK MUST BE LOCATED
BELOW THE WEATHER-HEAD.



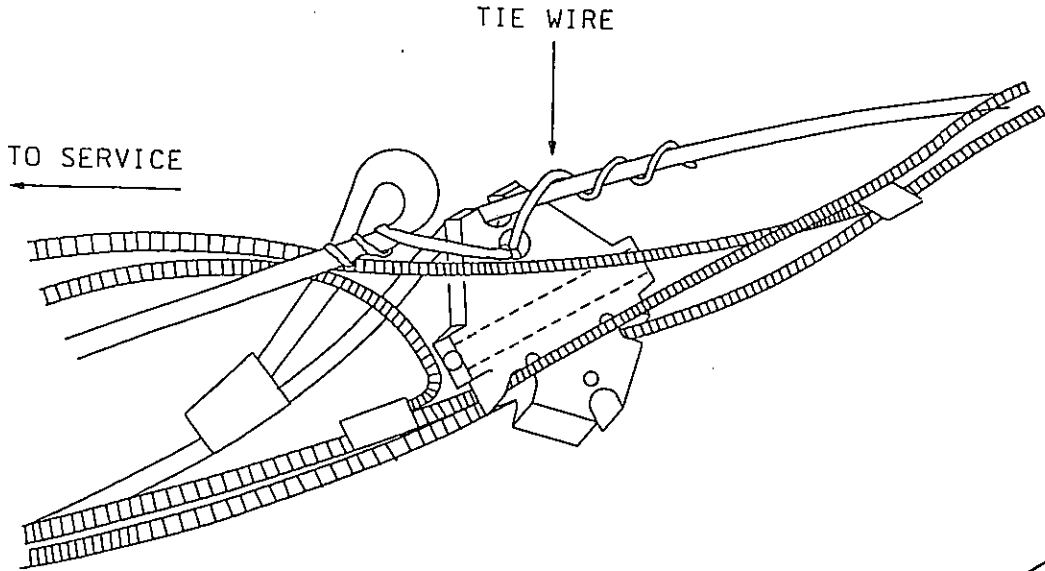


MACRO

DESCRIPTION
MIDSPAN TRIPLEX CABLE TAP

PAGE
345-2

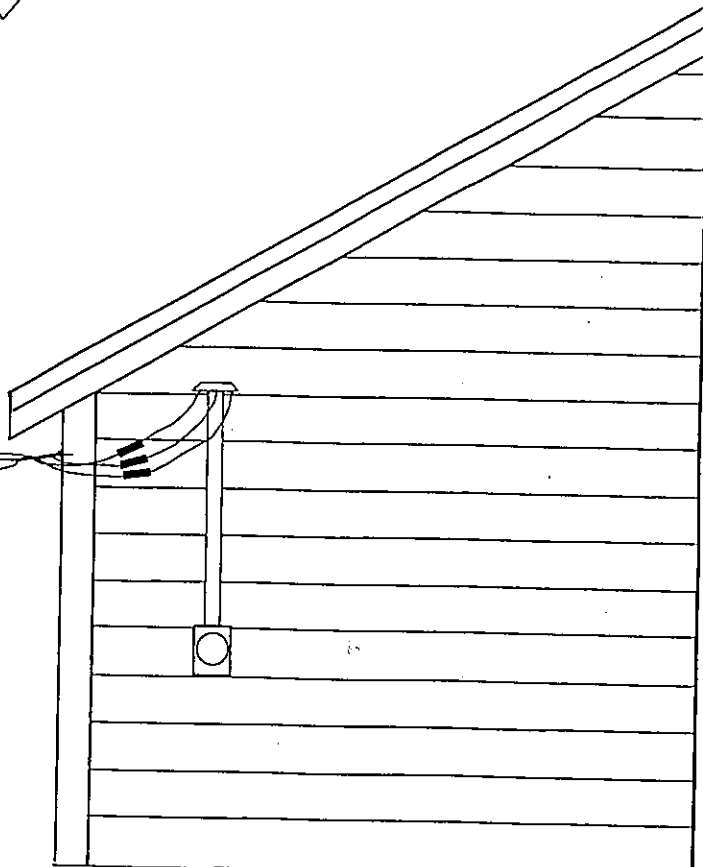
DESIGNED	REVISOR	REVISION
DRAWN	DATE	
DATE	12/18/98	



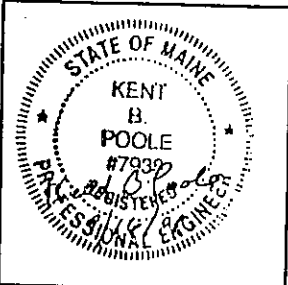
DESIGNED	ORIGINAL
DRAWN	DATE
DATE	4/1/93

TO MIDSPAN TAP ←

NOTE:
HOOK MUST BE LOCATED
BELOW THE WEATHER-HEAD.



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

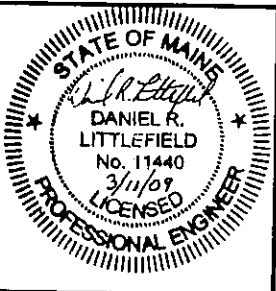
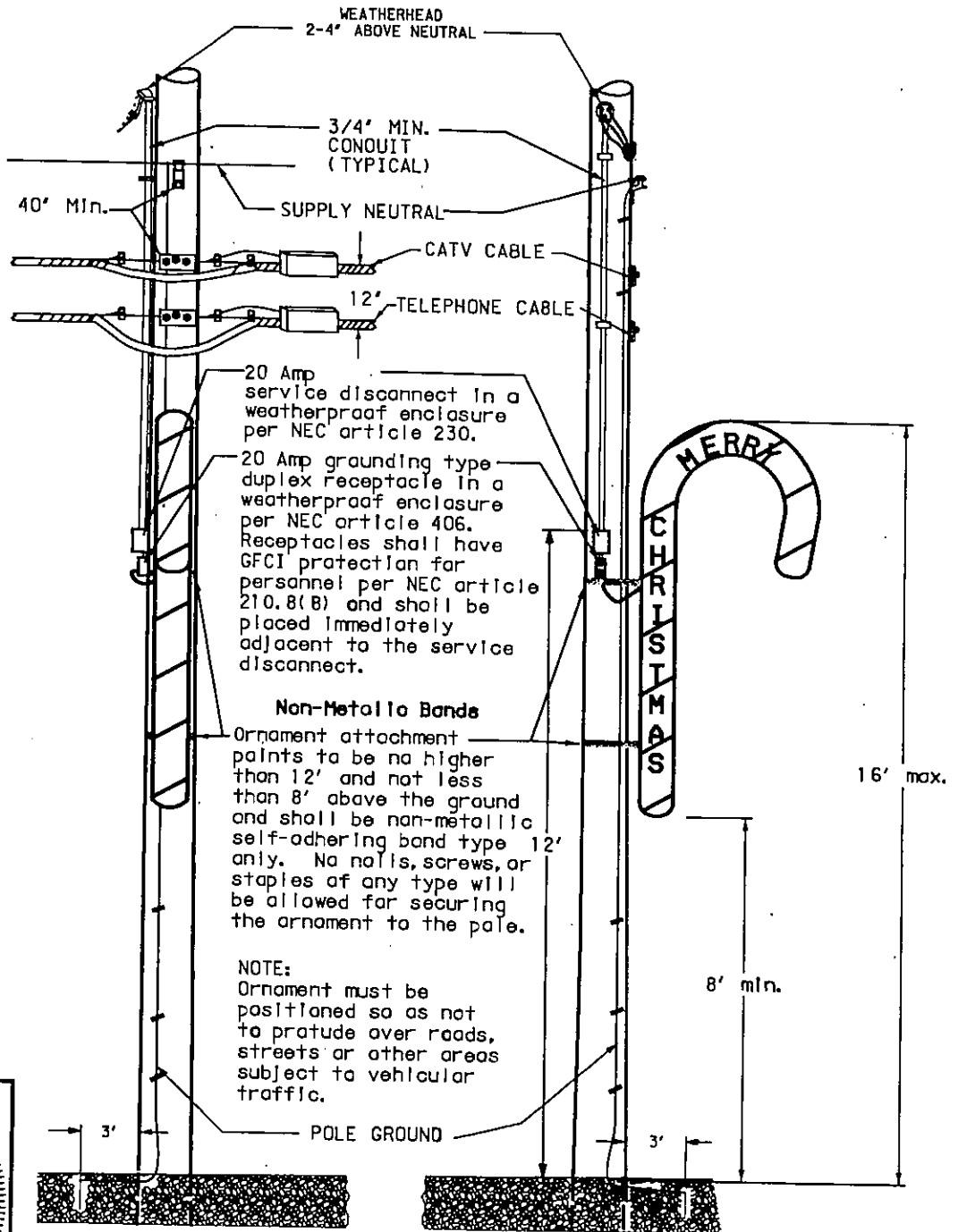


NO.	REVISION	DATE	CL.
1	Changed page number to 345-3	10/03/01	
2	Changed top 2 notes, corrected other notes	12/22/08	

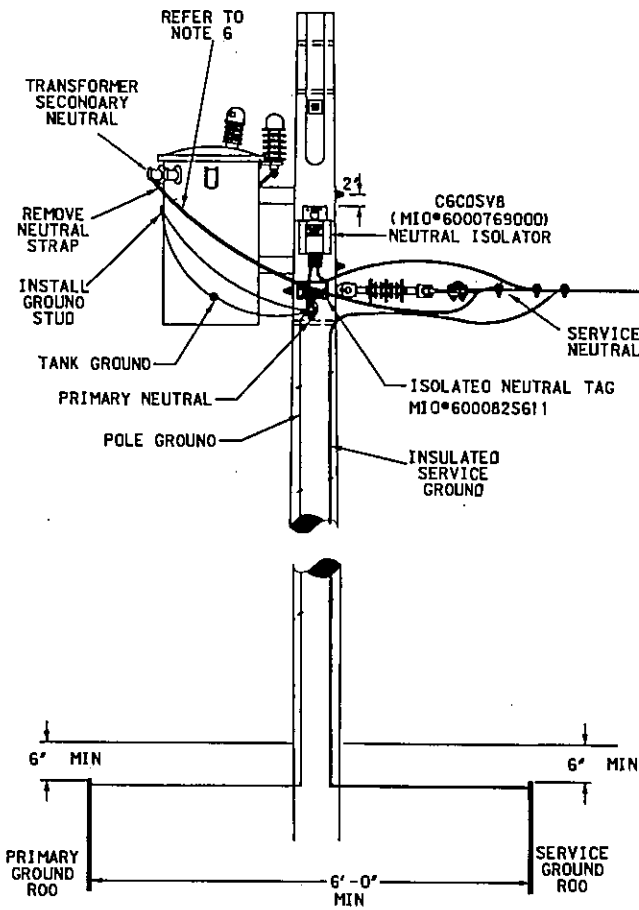
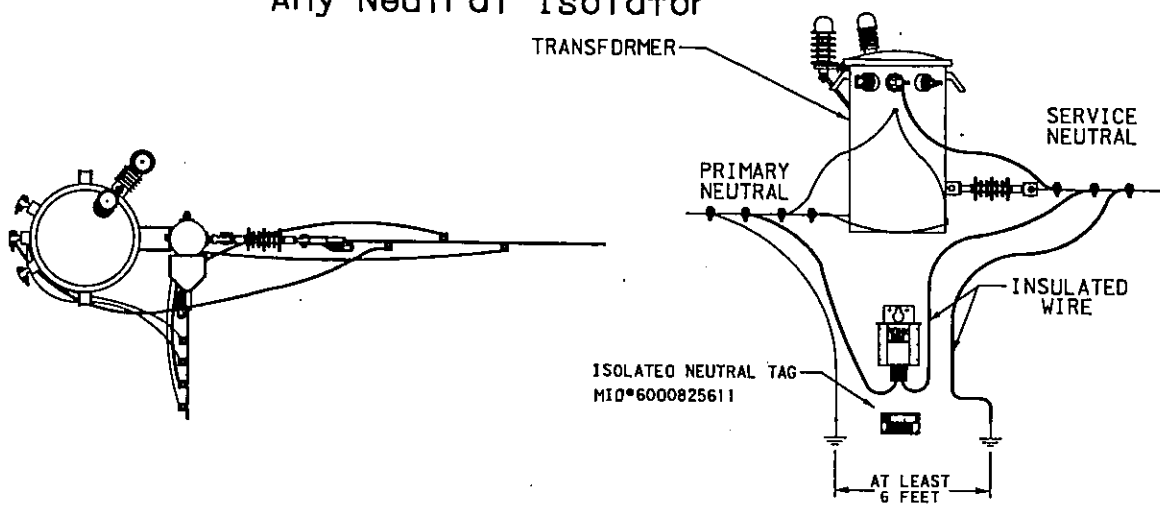


ORIGINAL	KBP
DESIGNED	RFW
DRAWN	
DATE	10/24/97

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Contact Distribution Engineering Prior
To The Installation Of
Any Neutral Isolator



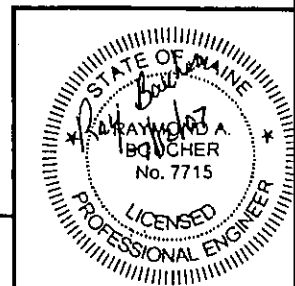
1. Remove neutral strap and install primary ground from tank strap stud to primary neutral.
2. The primary and service neutrals are interconnected through a protective device that complies with the N. E. S. C. section 97. D. 2.
3. Check for voltage between Isolator terminals. Voltage should be low, but should not be zero.
4. Caution must be taken because of the possible difference in potential between the primary neutral and the service neutral.
5. Install insulated copper conductor from the transformer secondary neutral bushing to the service neutral sized to match the service neutral.
6. Use 60DV insulated #2 copper wire to connect between either terminal of the isolator and the service neutral.
7. Care shall be taken in stapling the insulated ground wire so as not to damage insulation.
8. Install tag stating 'Caution Isolated Neutral' on the pole directly below the isolator.

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	GRG
DRAWN	
DATE	04/01/93



1	ADDED NEUTR. BLOCER C/S. ISOLATED NEUTR. TAG + KIOP'S	7/2/78	28
---	---	--------	----

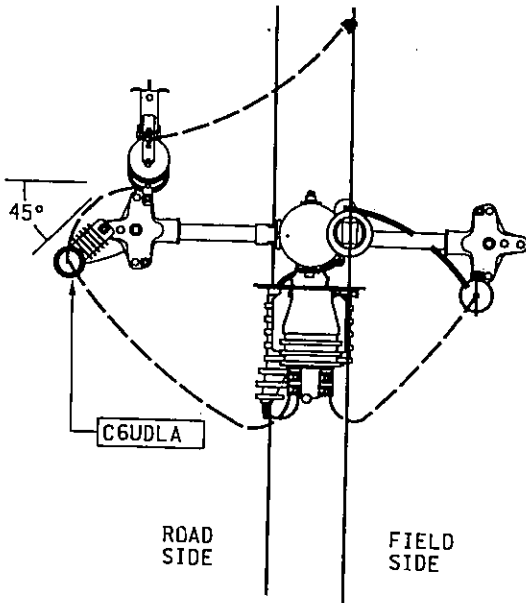


MACRO

DESCRIPTION
1 PH PRIMARY METERING INST. FOR UG RISER 7.2KV

PAGE
346-1B

DESIGNED	REVISOR	REVISION	DATE
CS	CS		05/01/02
REC	REC		01/27/06

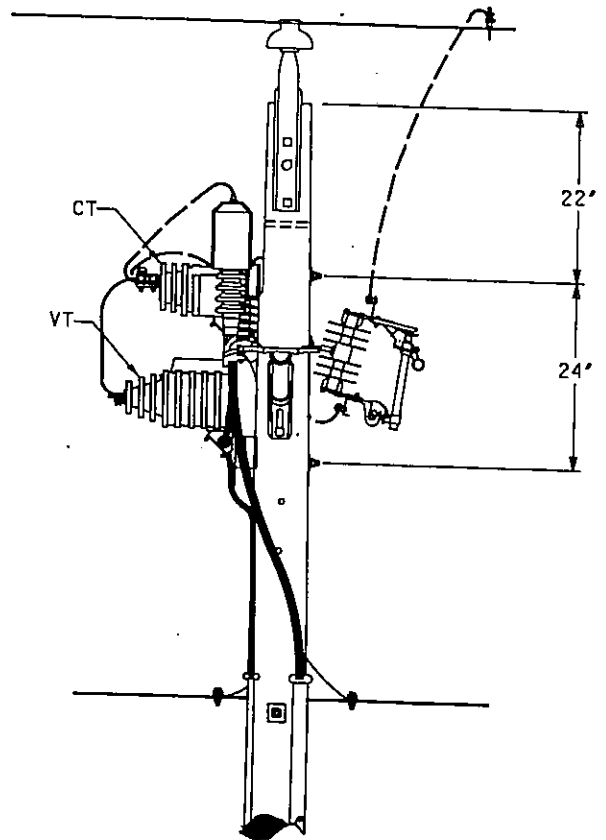
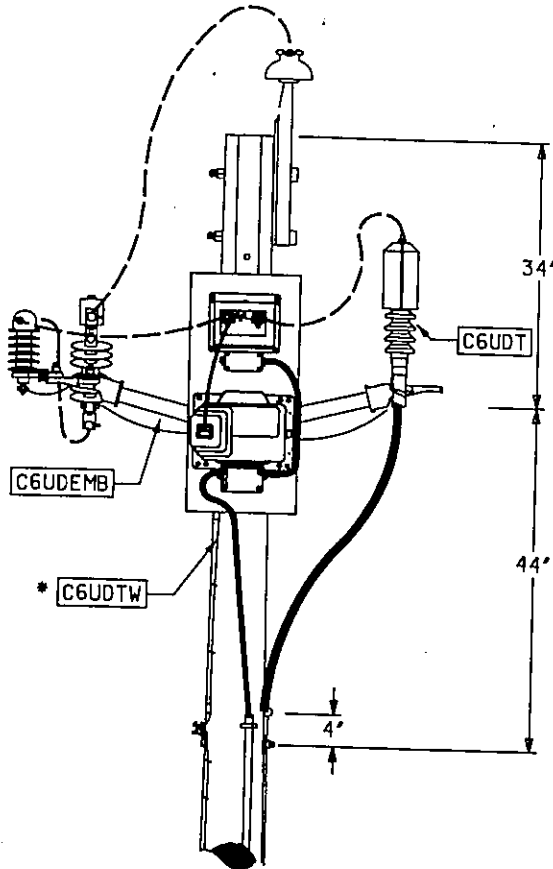


* MINIMUM WIRE SIZES FOR CONNECTIONS BETWEEN SYSTEM NEUTRAL AND URD CABLE NEUTRAL.

CABLE SIZE	POLE NEUTRAL CU
#2	C6UDCU4TWAS
1/0	C6UDCU2TWAS
4/0	C6UDCU2/DTWAS
Larger Than 4/0	C6UDCU4/DTWAS

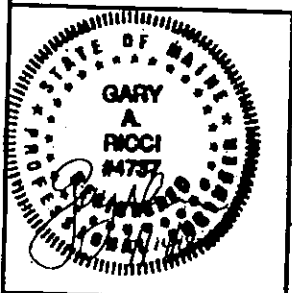


DESIGNED	GRG
DRAWN	HEPJ
DATE	05/02/90



NOTE:
CONNECTIONS SHOWN AS DASHED LINES TO BE PROVIDED BY LINE DEPARTMENT..

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

PAGE
346-1C

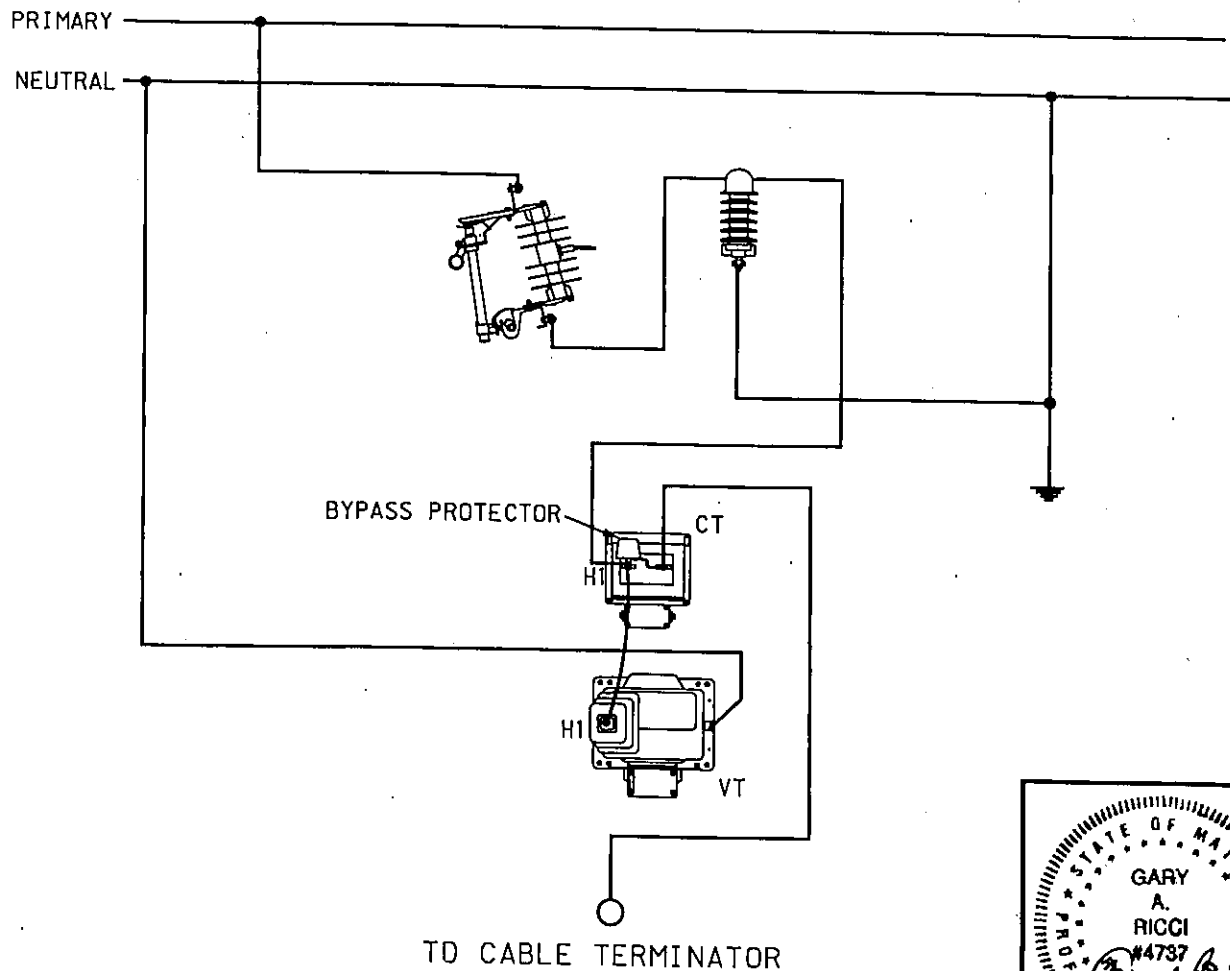
DESCRIPTION
1 PH PRIMARY METERING INST. FOR UG RISER 7.2KV

MACRO

NOTES

1. Single phase primary meter cluster, 1 current transformer (CT) 1 voltage transformer (VT). This unit is pre-assembled at the Meter Department. (See Meter Construction Standard, Page 980-23.1.1.
2. Do not remove the CT by-pass protector connected across the bushing. The by-pass is to protect the current transformer windings from surge currents.
3. Connect the lead wire from the cutout through the top of the lightning arrester to the CT bushing in one piece.

CONNECTION FIELD DIAGRAM



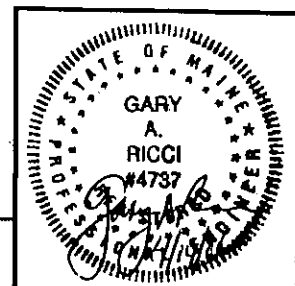
DESIGNED	CS
DRAWN	REC
DATE	02/06/06



East

DESIGNED	CS
DRAWN	REC
DATE	04/19/02

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



DISTRIBUTION CONSTRUCTION
STANDARDS

CENTRAL MAINE POWER CO.

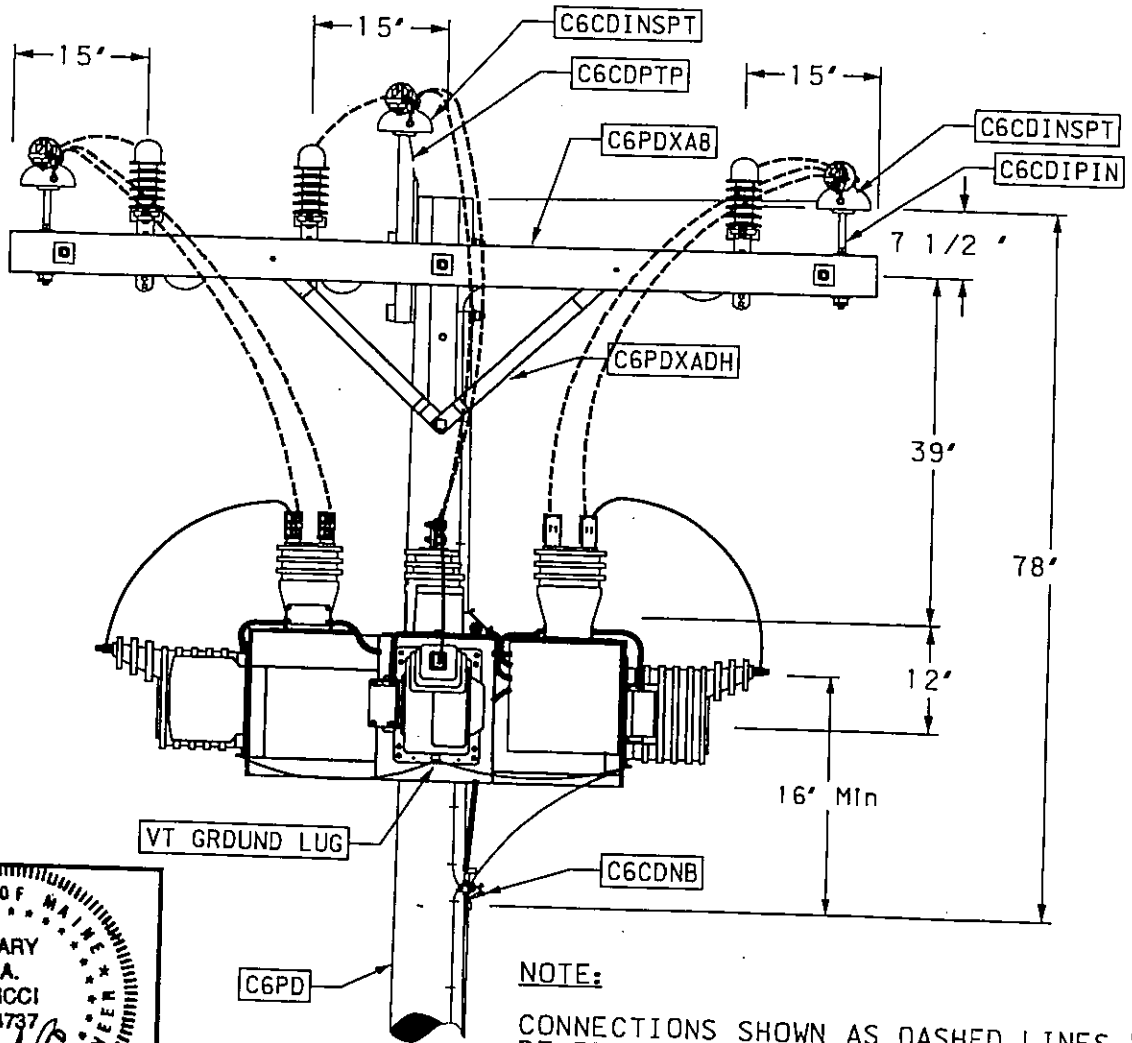
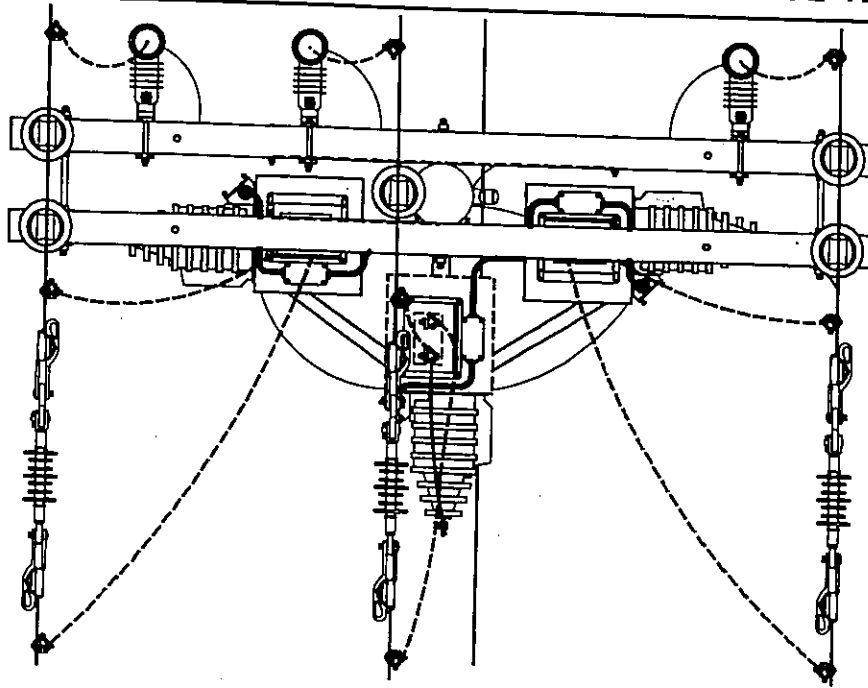


MACRO

DESCRIPTION
3 PH PRIMARY METERING INST. INLINE 12KV

PAGE
346-2B

DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS	REC	04/19/02
DATE	04/19/02	01/27/06	



NOTE:

CONNECTIONS SHOWN AS DASHED LINES WILL BE PROVIDED BY LINE DEPARTMENT.



ORIGINAL	EVG	SGD	DATE
DESIGNED	EVG	SGD	05/17/88
DRAWN			
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

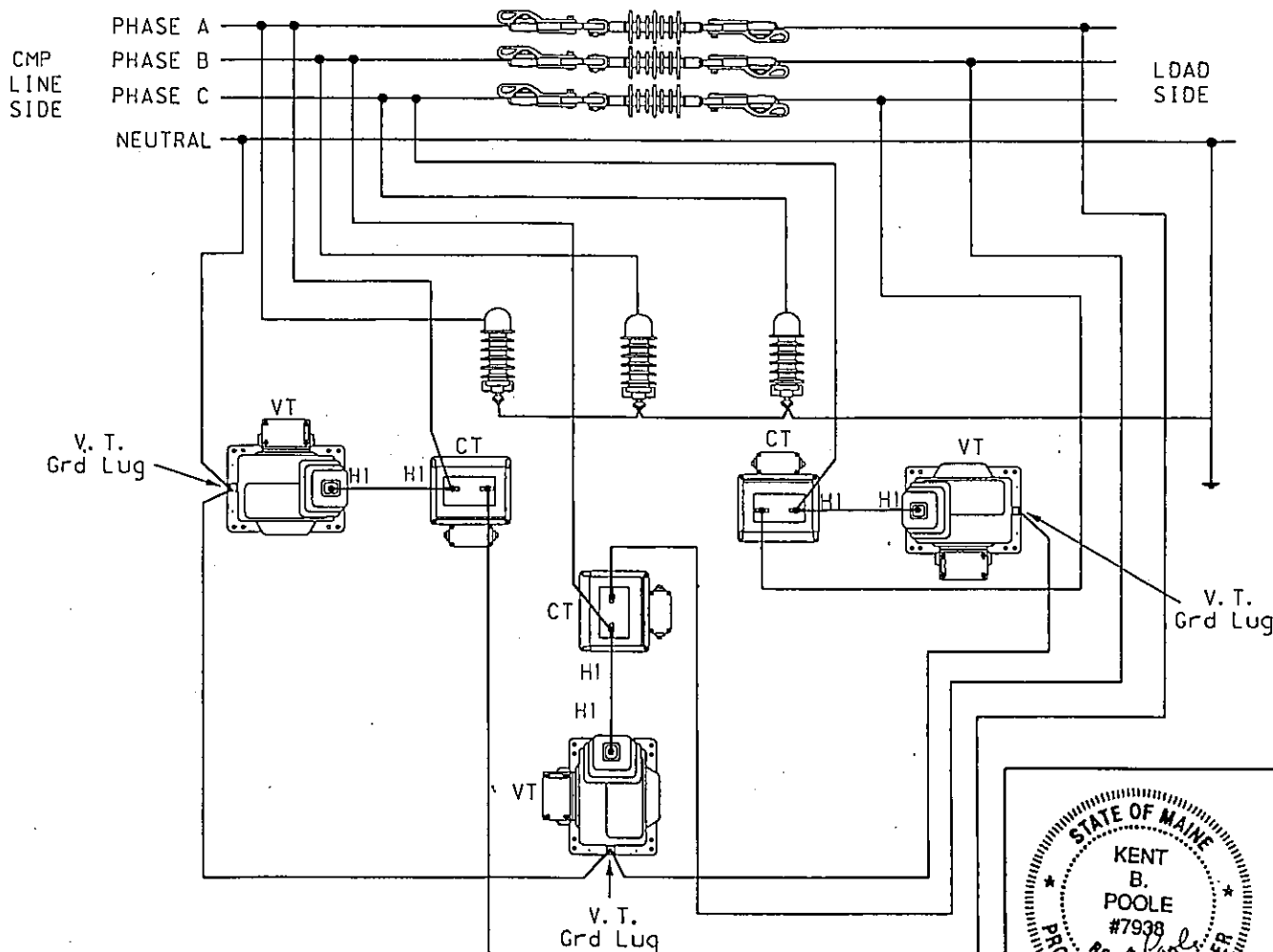
DISTRIBUTION CONSTRUCTION STANDARDS

NOTES

1. The meter mount, current transformers and potential transformers shall be preassembled at the Meter Department.
2. The meter cable is to be run (on site) in 1 1/4" conduit and coupled to the top of the meter enclosure. A sufficient amount of meter cable with a watertight cable connector to seal the top of the conduit shall be provided.
3. Bond the meter maunt, the arrester grounds, VT ground lug, and the pole ground to the primary neutral.
4. If there is more than one span beyond load side of the metering pole, then arresters are required on the load side as well as on the line side.

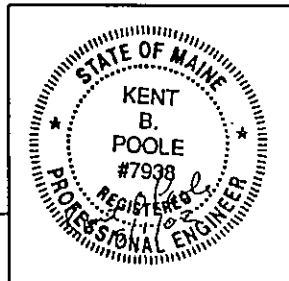
DESIGNED	CS	REVISION	REVISION
DRAWN	REC		
DATE	05/02/02		

FIELD CONNECTIONS DIAGRAM



DESIGNED	HEP	REVISION	REVISION
DRAWN			
DATE	05/02/90		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

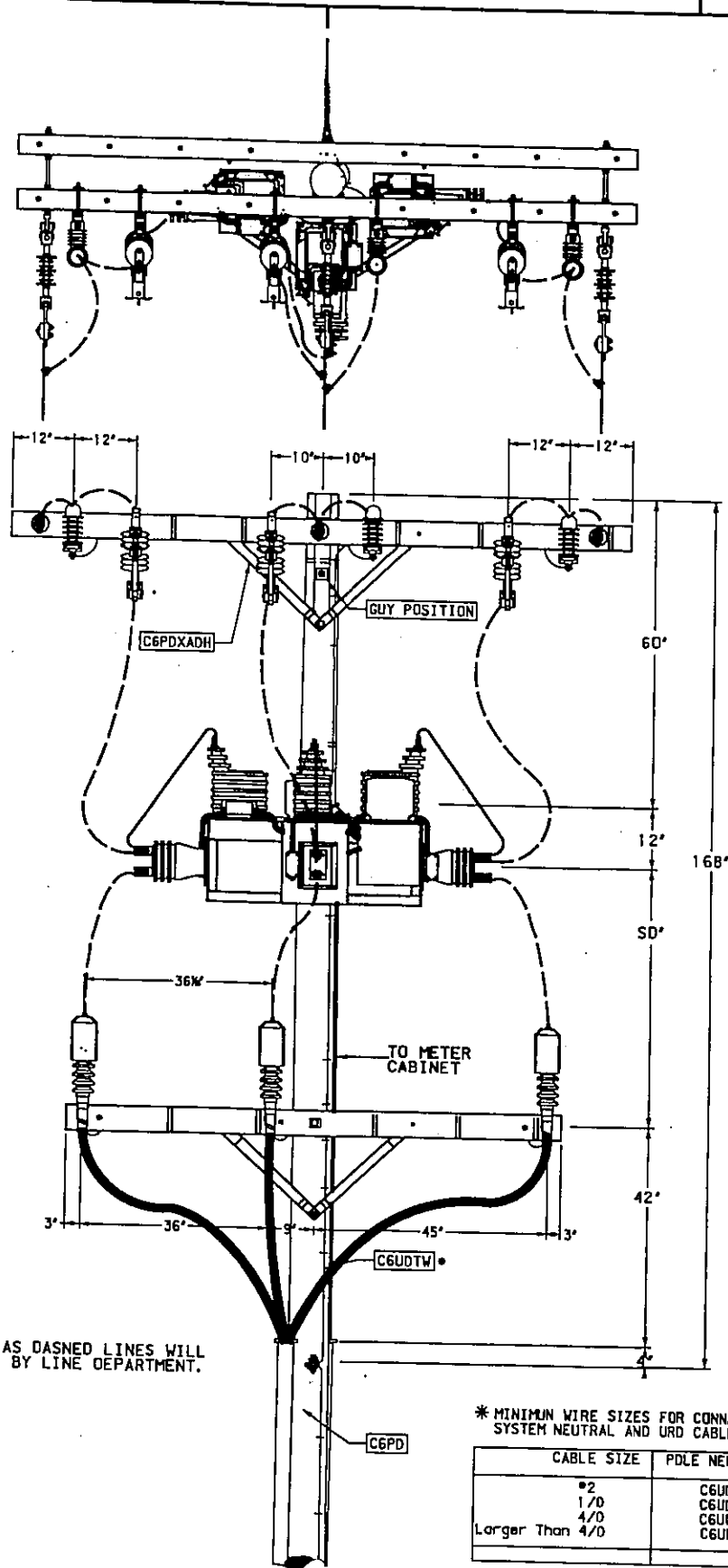


DESIGNED	CS	REVISED	REVISED
DRAWN	REC	REC	CS
DATE	04/19/02	02/07/06	



DESIGNED	EVG	ORIGINAL
DRAWN	SGD	
DATE	05/17/88	

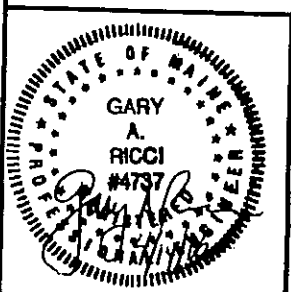
THIS DRAWING SHALL BE REVISED IN THE CADD SYSTEM ONLY



NOTE:
TAPS SHOWN AS DASHED LINES WILL BE PROVIDED BY LINE DEPARTMENT.

* MINIMUM WIRE SIZES FOR CONNECTIONS BETWEEN SYSTEM NEUTRAL AND URD CABLE NEUTRAL.

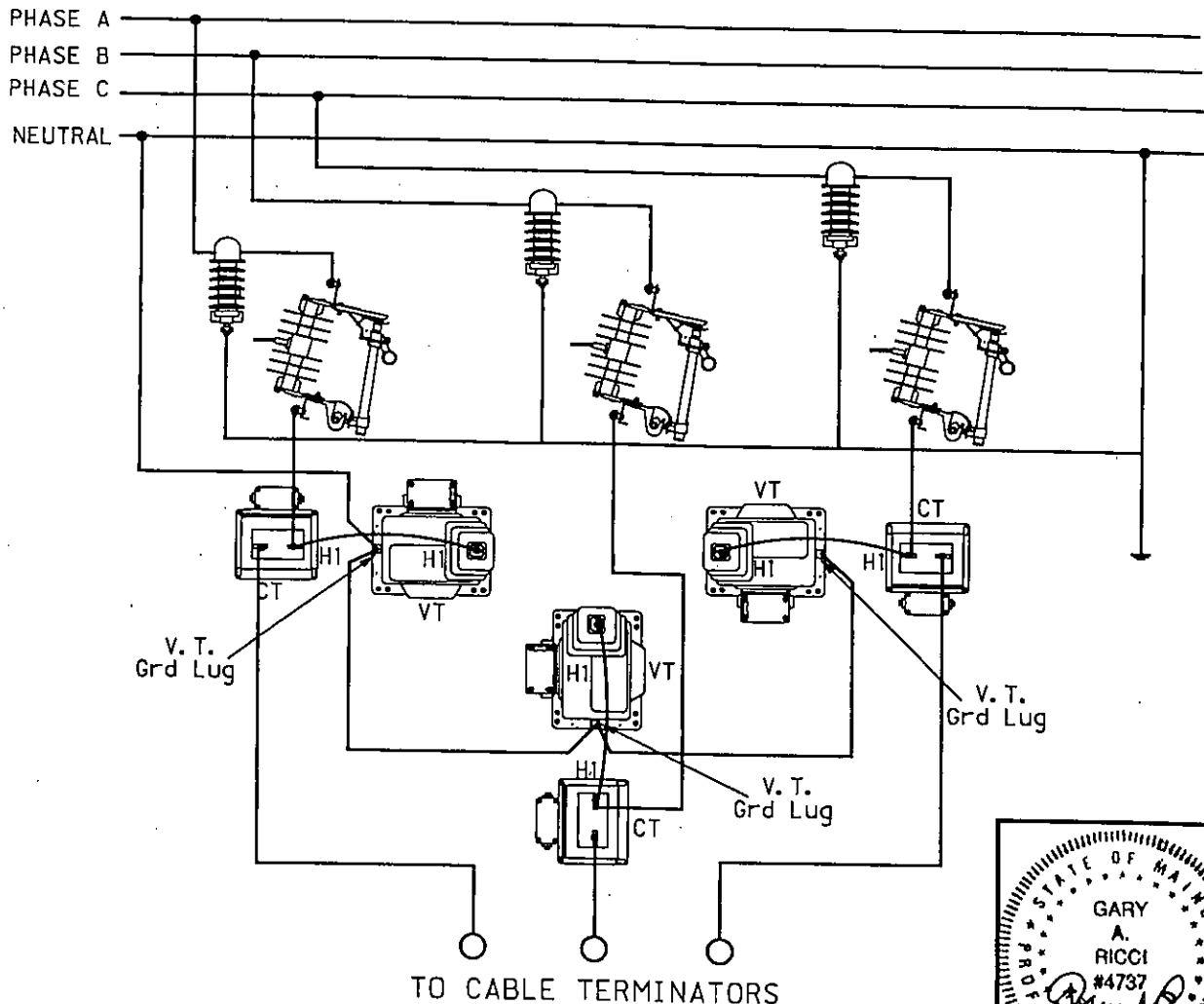
CABLE SIZE	PDLE NEUTRAL CU
#2	C6UDCU4TWAS
1/0	C6UDCU2TWAS
4/0	C6UDCU2/0TWAS
Larger Than 4/0	C6UDCU4/0TWAS



NOTES

1. The meter maunt, current transformers and potential transformers shall be preassembled at the Meter Department.
2. The meter cable is to be run (on site) in 1 1/4' conduit and coupled to the top of the meter enclosure. A sufficient amount of meter cable with a watertight cable connector to seal the top of the conduit shall be provided.
3. Bond the meter maunt, the arrester grounds, VT ground lug, and the pole ground to the primary neutral.
4. If there is more than one span beyond load side of the metering pole, then arresters are required on the load side as well as on the line side.
5. Refer to Distribution Construction Standards Book pages 360, 361, 361-1, 361-2, and 361-3 for cable riser details.

FIELD CONNECTIONS DIAGRAM

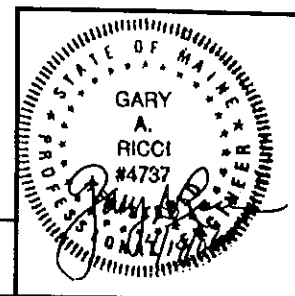


DESIGNED	CS
DRAWN	REC
DATE	05/02/02
	01/30/06
	CS
	REC

EMT
East

DESIGNED	HEP
DRAWN	
DATE	05/02/90

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

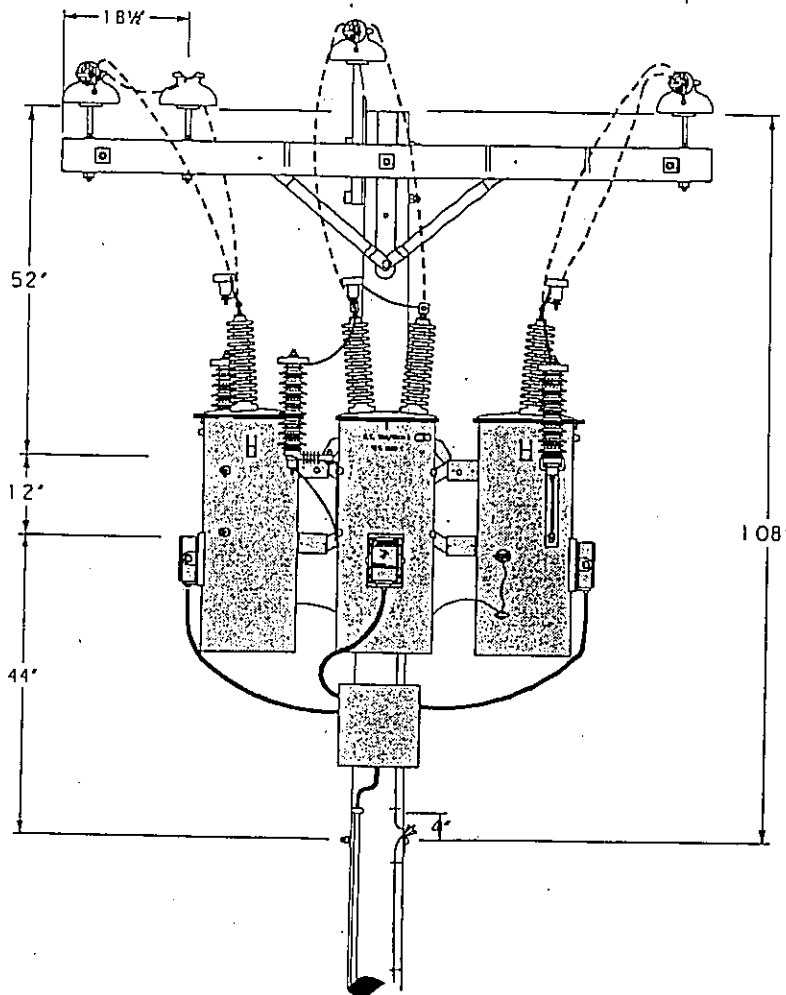
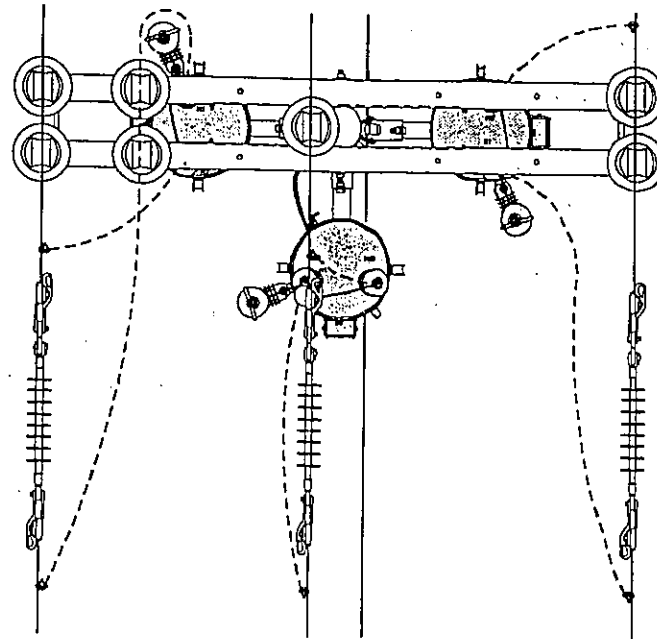


MACRO

DESCRIPTION
3 PH PRIMARY METERING INST. CLUSTER MOUNT 35KV

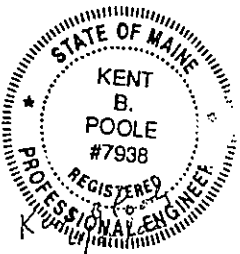
PAGE
346-4B

DESIGNED	EVG	CS	
DRAWN	SCD	REC	
DATE	05/17/88	04/19/02	
REVISED			
REVISED			
REVISED			



DESIGNED	HEP	
DRAWN		
DATE	12/06/85	
ORIGINAL		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

PAGE
346-4C

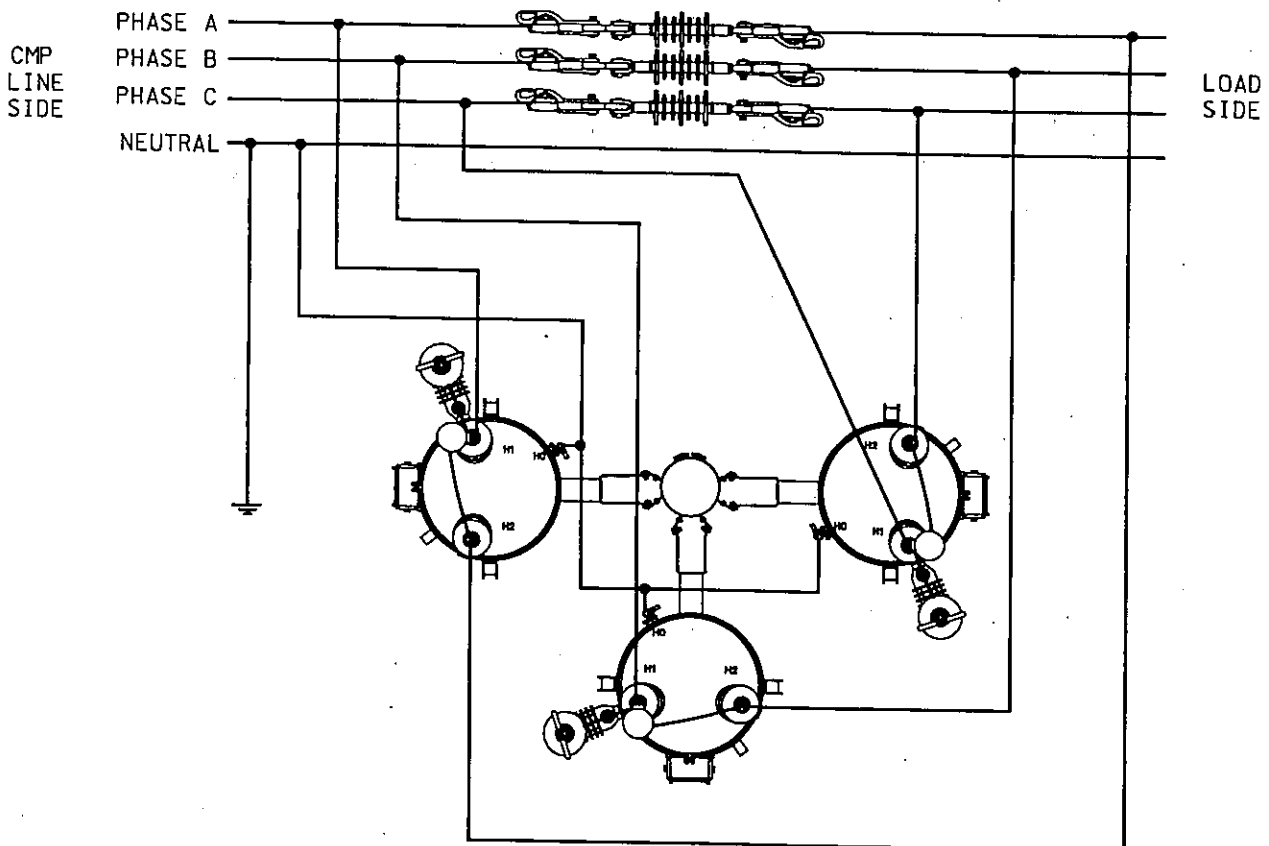
DESCRIPTION
3 PH PRIMARY METERING INST. CLUSTER MOUNT 35KV

MACRO

NOTES

1. The meter cable is to be run (on site) in 1 1/4" conduit and coupled to the top of the meter enclosure. A sufficient amount of meter cable with a watertight cable connector to seal the top of the conduit shall be provided.
2. All necessary arresters shall be provided on the metering transformers.
3. Do not remove the CT by-pass protectors connected across the bushings. These are to protect the current transformer windings from surge currents.

FIELD CONNECTIONS DIAGRAM



DESIGNED	CS	CS
DRAWN	REC	REC
DATE	04/26/02	02/06/06



DESIGNED	HEP
DRAWN	
DATE	05/02/90

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



DISTRIBUTION CONSTRUCTION
STANDARDS

CENTRAL MAINE POWER CO.



MACRO

DESCRIPTION

3 PH PRIM METERING INST. CLUSTER MOUNT 35KV W/BYPASS

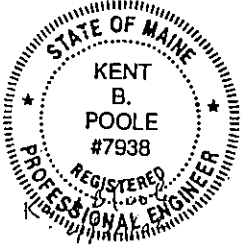
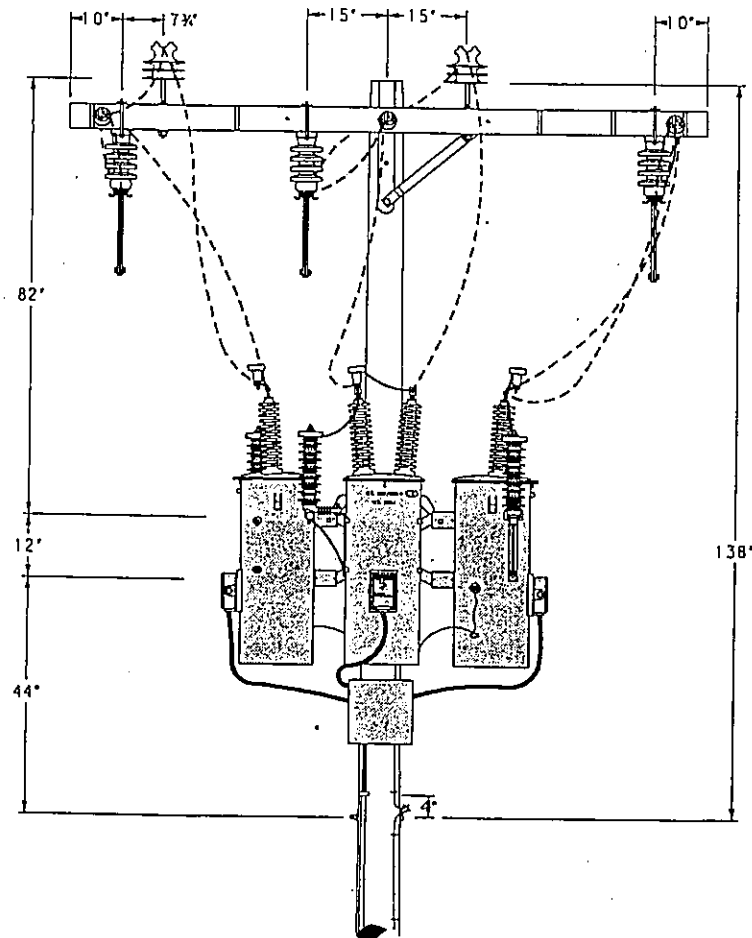
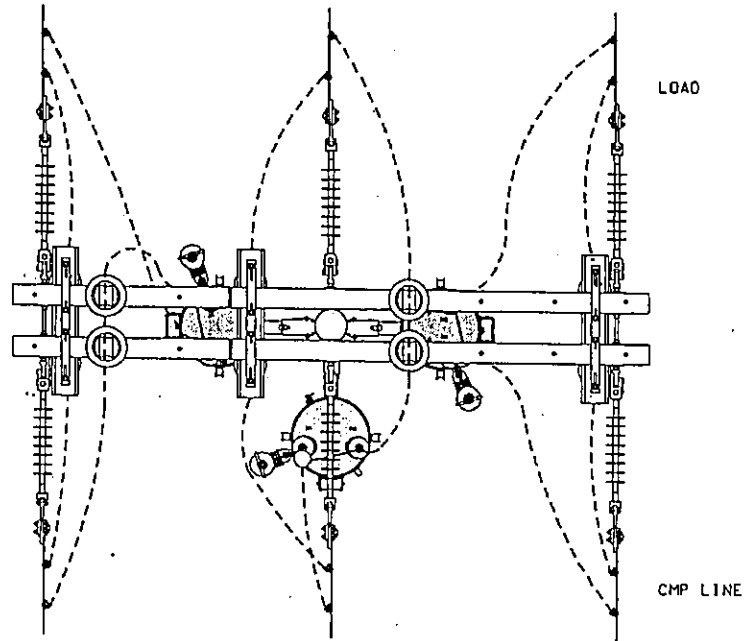
PAGE

346-5B

DESIGNED	REVISOR	REVISION
DRAWN	EVG	CS
DATE	SGD	REC
	05/17/88	04/19/02

ORIGINAL	REVISOR	REVISION
DESIGNED	EVG	
DRAWN	SGD	
DATE	01/20/87	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

PAGE
346-5C

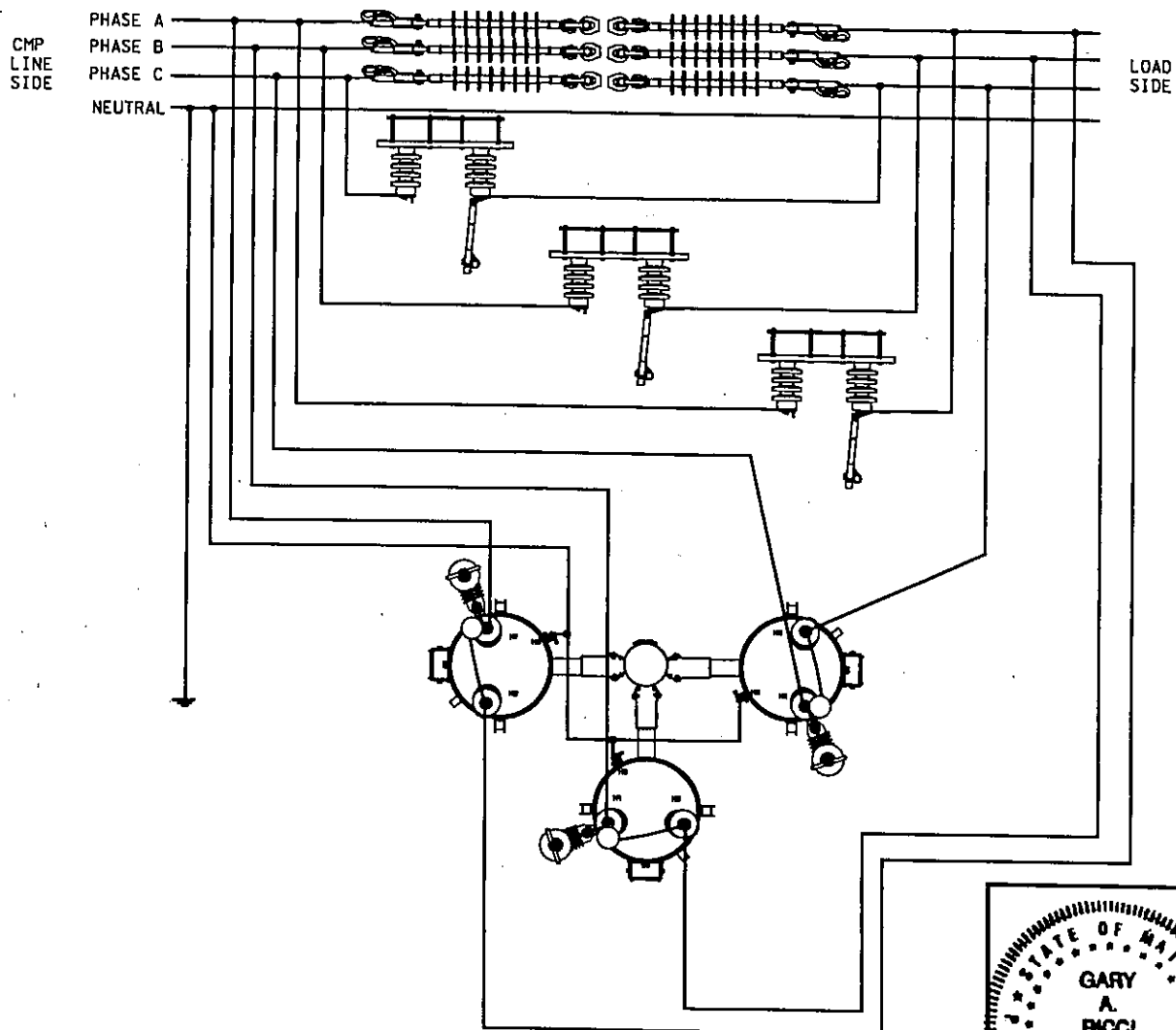
DESCRIPTION
3 PH PRIM METERING INST. CLUSTER MOUNT 35KV W/BYPASS

MACRO

NOTES

1. The meter cable is to be run (on site) in 1 1/4" conduit and coupled to the top of the meter enclosure. A sufficient amount of meter cable with a watertight cable connector to seal the top of the conduit shall be provided.
2. All necessary arresters shall be provided on the metering transformers.
3. Do not remove the CT by-pass protectors connected across the bushings. These are to protect the current transformer windings from surge currents.

FIELD CONNECTIONS DIAGRAM



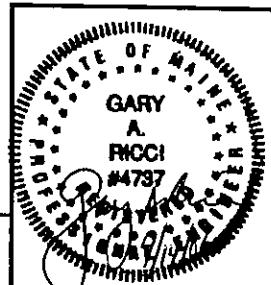
DESIGNED	CS
DRAWN	REC
DATE	05/01/02
	02/06/06



East

DESIGNED	HEP
DRAWN	
DATE	05/02/90

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



DISTRIBUTION CONSTRUCTION STANDARDS

CENTRAL MAINE POWER CO.





CONDUCTORS

Conductors for overhead distribution lines shall in general consist of All Aluminum Alloy (AAC) or aluminum material. Other materials may be desired or required under special circumstances.

Bare conductors shall be used for all rural construction where the voltage is in excess of 750 volts except where conditions or requirements make the use of tree wire advisable. Bare conductors shall likewise be used in urban and residential area construction except where local conditions require the use of covered wire.

Pole line construction shall be classified as one of three categories:

- (1) Medium Span Construction
 - (a) Recommended for urban and residential areas
 - (b) Limited to 250 feet or less
- (2) Long Span Construction
 - (a) Recommended for rural areas
 - (b) Limited to 400 feet or less
- (3) Extra Long Span Construction
 - (a) Requires special consideration by the Engineering Department
 - (b) Recommended for spans over 400 feet

The standard conductor for all new primary construction shall be #1/0 AAAC or 336.4 MCM 19 strand aluminum.

Standard secondary and service cable shall be aluminum multiplex cable (triplex or quodroplex) sized:

- *2 Aluminum phase, *4 neutral
- 1/0 Aluminum phase, 1/0 neutral
- 336.4 MCM Aluminum phase, 4/0 neutral

Cases involving unusual engineering considerations may require the use of other types of conductors. Specifications for such special cases will be provided by Distribution Engineering on request.

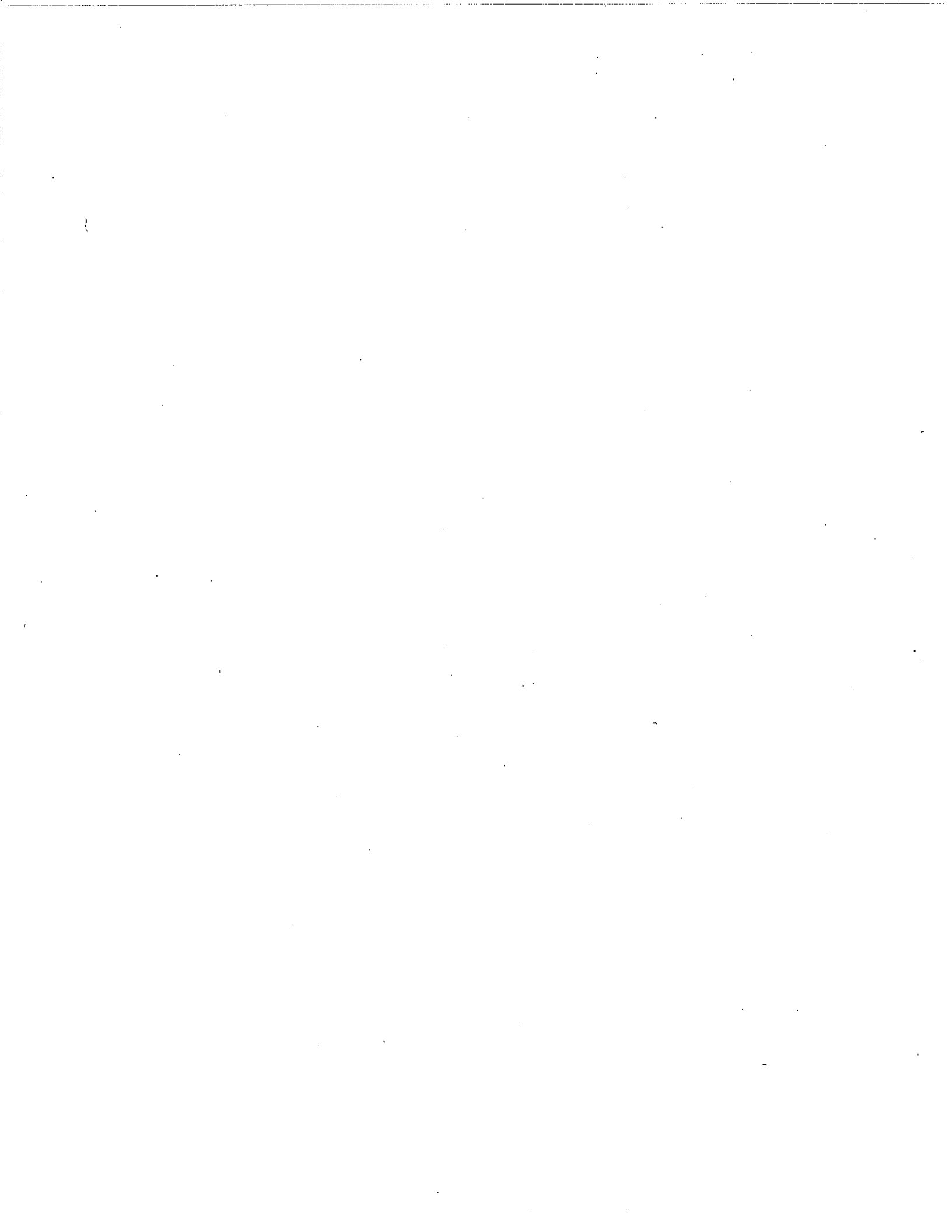
REV	REVISION	DATE	BY
1	Corrected spelling in text	07/17/07	RP
1	Changed word messenger to neutral	09/10/08	



ORIGINAL	HEP	GRG	05/02/90
DESIGNED			
DRAWN			
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





TREE WIRE

Tree wire is a partially insulated conductor that is designed to prevent service interruptions caused by momentary brush and tree contact.

Tree wire is to be used on a limited basis in those areas where tree trimming rights cannot be acquired or where continuous tree trimming is not possible. All tree wire installations shall require the approval of the Division Field Engineer/Superintendent.

NOTE: TREE WIRE IS NOT FULLY INSULATED: When energized, tree wire should be handled in the same manner as a bare energized conductor.

STANDARD TREE WIRE

15 kV

MID*6000207958 1/0 AAAC with 165 mils of polyethylene covering
MID*6000207981 336.4 MCM Aluminum with 165 mils of polyethylene covering

35 kV

MID*6000207990 1/0 AAAC with 315 mils of polyethylene covering
MID*6000207995 336.4 MCM Al with 315 mils of polyethylene covering

STANDARD TREE WIRE HARDWARE

15 kV

Insulators

MID*6000310352 Insulator pin-type 15KV for tree wire

Insulator Pins

MID*6000273850 Pin steel 5/8" x 2" x 12 1/2"

Ties

MID*6000205358 *4 Aluminum tie solid weatherproof

35 kV

Insulators

MID*6000310468 Insulator pin-type 27 kV for tree wire

Insulator Pins

MID*6000273900 Pin steel for 27 kV tree wire insulators

Ties

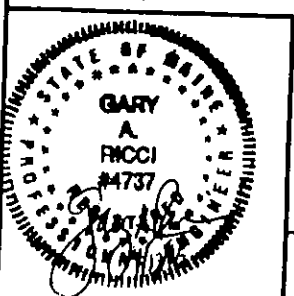
MID*6000205358 *4 Aluminum tie solid weatherproof

DESIGNED	REVISOR	REVISION	DATE
DRAWN	REDRAWN	REVISED	
DATE	JRP	CMH	06/23/98
			08/24/01
		CS	03/01/06
		REC	



ORIGINAL	HEP	GRG	DATE
DESIGNED			05/02/90
DRAWN			

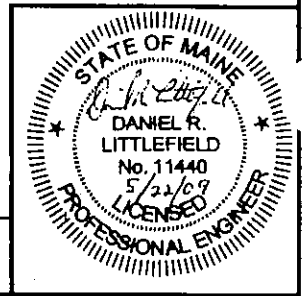
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



PAGE 352 DESCRIPTION CHARACTERISTICS OF LOW VOLTAGE AERIAL TRIPLEX AND QUADRAPLEX CABLE MACRO

MATERIAL ID NUMBERS	6000200300	71641	6000200340	6000200330	6000200350
SIZE-AWG PHASE CONDUCTORS	2-#2 ALUM.	2-#1/0 AL.	2-336.4 AL.	3-#1/0 AL.	3-336.4 AL.
SIZE-AWG NEUTRAL MESSENGER	1-#4 AAAC	1-#1/0 AAAC	1-#4/0 AAAC	1-#1/0 AAAC	1-#4/0 AAAC
TYPICAL USE	100 & 200 AMP SERV. DROP	200 A. SERV SEC. MAINS	400 A. SERV SEC. MAINS	200 A. SERV SEC. MAINS	400 A. SERV SEC. MAINS
STRANDING PHASE CONDUCTORS	7 X .0974	7 X .1228	19 X .1331	7 X .1228	19 X .1331
STRANDING NEUTRAL MESSENGER	7 X .0834	7 X .1327	7 X .1878	7 X .1327	7 X .1878
DIAMETER IN INCHES	.373	.477	.806	.482	.806
INSULATED PHASE CONDUCTORS					
BARE NEUTRAL MESSENGER	.250	.398	.563	.398	.563
ULT. STRENGTH NEUTRAL MESSENGER IN POUNDS	1760	4270	8560	4270	8560
(CIRCULAR MILS) AREA OF PHASE CONDUCTOR	66,360 CM	105,500 CM	336,400 CM	105,500 CM	336,400 CM
(CIRCULAR MILS) AREA OF NEUTRAL CONDUCTOR	41,740 CM	123,300 CM	246,900 CM	123,300 CM	246,900 CM
ALLOWABLE TENSION NEUT. MESSENGER 60% ULT. POUNDS	1050	2562	5136	2560	5136
FEET PER POUND	4.63	2.55	.97	1.92	.70
POUNDS PER 1000 FEET	216	391	1032	519	1428
*CURRENT CARRYING CAPACITY	150 AMPS	200 AMPS	380 AMPS	180 AMPS	330 AMPS
TYPE	TRIPLEX	TRIPLEX	TRIPLEX	QUADRAPLEX	QUADRAPLEX

* 40°C AMBIENT, 90°C CONDUCTOR TEMPERATURE (XLPE); SUN AND WIND 2 FT/SEC.



DESCRIPTION
CHARACTERISTICS OF ALUM. CONDUCTORS

MACRO

CODE NAME	AZUSA	TULIP	COVERED CONDUCTORS											
			MATERIAL ID*	SIZE - AWG	RATED KV	CONDUCTOR SHEILD IN MILS.	CONDUCTOR INSULATION IN MILS.	STRANDING	OVERALL DIAMETER IN INCHES	ULTIMATE STRENGTH TENSION IN POUNDS	AREA OF CONDUCTOR CIRCULAR MILS	ALLOWABLE TENSION 60% ULT. POUNDS	FEET PER POUNDS	POUNDS PER 1000 FEET
MATERIAL ID*	72001	71960	6000207958	1/0 AAAC	15	150	15	150	7 X .1327	.728	4270	336400	255	255
SIZE - AWG	1/0 AAAC	336.4 AL	6000207981	336.4 AA	15	150	15	150	19 X .1331	.933	6150	123300	497	424
COPPER EQUIVALENT (**AWG)	2	4/0	6000207990	1/0AAAC	35	300	35	300	7 X .1379	1.028	4270	336400	721	424
			6000207995	336.4AA	35	300	35	300	19 X .1055	1.237	6150	336400	721	424
			6000207996	477AA	20	300	20	300	19 X .1331	1.362	8360	477000	903	903
STRANDING	7 X .1327	19 X .1331												
DIAMETER IN INCHES	.398	.666												
ULTIMATE STRENGTH TENSION IN POUNDS	4270	6150												
AREA OF CONDUCTOR CIRCULAR MILS	123300	336400												
ALLOWABLE TENSION 60% ULT. POUNDS	* 2562	* 3690												
FEET PER POUNDS	8.7	3.17												
POUNDS PER 1000 FEET	114.9	315.5												
CURRENT CARRYING CAPACITY IN AMPERES														
	WINTER	255												
	SUMMER	210												
	WINTER	243												
	SUMMER	192												
	WINTER	475												
	SUMMER	373												
	WINTER	230												
	SUMMER	180												
	WINTER	448												
	SUMMER	554												
	WINTER	903												
	SUMMER	430												

Winter amp ratings are based on a conductor temperature of 75°C with an air temperature of 25°C sun and wind 2 FT/SEC.
 Summer amp ratings are based on a conductor temperature of 75°C with an air temperature of 40°C sun and wind 2 FT/SEC.
 Conductors shown on this chart are standard conductors approved for new construction.
 * Allowable tension may be limited by construction design criterion.

DESIGNED	REVISION	DATE
DESIGNED	REVISION	90/90/20
DESIGNED	REVISION	CS
DESIGNED	REVISION	CS

EnergyEast

DATE	18/10/10
DRAWN	RCE
DESIGNED	DESIGNED
DATE	18/10/10
DRAWN	RCE
DESIGNED	DESIGNED

ONLY SYSTEMS CAN BE REVISED IN THIS DRAWING SHEET

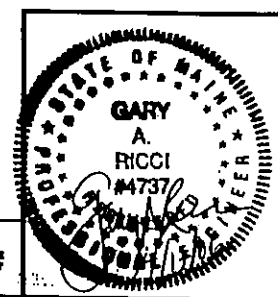


DESIGNED	REVISED	REVISED	REVISED
DRAWN	CS		
DATE	REC		
	01/30/06		



DESIGNED	ORIGINAL
DRAWN	RCE
DATE	12/01/75

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



MID#	SIZE - AWG	STRANDING	DIAMETER IN	INCHES	ULTIMATE STRENGTH	AREA OF CONDUCTOR	ALLOWABLE TENSION	FEET PER POUND	POUNDS PER 1000 FEET	CURRENT CARRYING CAPACITY IN AMPERES	
										TBWP	POLY. WP
N/A	*8	SOLID	0.129	0.28	644	16510	386	20.0	50	85	90
6000205750	*6	SOLID	0.162	0.33	1010	27220	606	12.6	80	110	120
6000205773	*4	SOLID	0.204	0.37	1584	41740	950	7.91	126	145	170
6000205819	*2	SOLID	0.258	0.46	2450	66360	1470	4.98	201	195	220
6000206118	*1/0	7X.1228	0.368	0.62	3731	105600	* 2239	3.07	326	255	310
6000206141	*2/0	7X.1379	0.414	0.68	4599	133100	* 2759	2.43	411	290	360
6000206164	*4/0	7X.1739	0.522	0.81	6980	211600	* 4188	1.53	653	390	480
								13.3	75	70	330
								17.9	56	85	480
								8.93	112	90	330
								11.5	87	120	480
								6.10	164	120	330
								7.35	136	170	480
								4.34	260	220	360
								2.36	424	215	330
								2.73	367	310	480
								1.92	522	245	330
								2.18	458	290	360
								1.40	715	390	480

Winter amp ratings are based on a conductor temperature of 75°C with an air temperature of 25°C sun and wind 2 FT/SEC.
 Summer amp ratings are based on a conductor temperature of 75°C with an air temperature of 40°C sun and wind 2 FT/SEC.
 Conductors shown in this chart are regular items only, not to be used for new construction.
 * Allowable tensions may be limited by construction design criterion.

MACRO
352-3

DESCRIPTION
CHARACTERISTICS OF COMPOSITE CONDUCTORS

PAGE

DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS		
DATE	REC		01/30/06

TYPES OF CONDUCTOR		COPPER-COPPERWELD		
MATERIAL ID*		6000206555	6000206578	6000206601
DESIGNATION		*6-A	*4-A	*2-A
COPPER EQUIVALENT		*6	*4	*2
STRANDING	CONDUCTORS	2 X .1068	2 X .1347	2 X .1699
	HIGH STRENGTH	1 X .1068	1 X .1347	1 X .1699
DIAMETER IN INCHES		0.230	0.290	0.366
ULTIMATE STRENGTH TENSION IN POUNDS		2585	3938	5876
AREA OF CONDUCTOR CIRCULAR MILS		34240	54440	86570
ALLOWABLE TENSION 60% ULT. POUNDS		1551	* 2362	* 3525
FEET PER POUNDS		9.85	6.18	3.89
POUNDS PER 1000 FEET		101.6	161.8	256.8
CURRENT CARRYING CAPACITY IN AMPERES	WINTER	140	180	240
	SUMMER			

Winter amp ratings are based on a conductor temperature of 75°C with on air temperature of 25°C sun and wind 2 FT/SEC.

Summer amp ratings are based on a conductor temperature of 75°C with on air temperature of 40°C sun and wind 2 FT/SEC.

Conductors shown in this chart are repair items only, not to be used for new construction.

* Allowable tension may be limited by construction design criterion



DESIGNED	REVISION	DATE
DRAWN	RCE	12/01/75

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

MATERIAL ID*	N/A	N/A	N/A	
CODE NAME	POPPY	ASTER	SUNFLOWER	
SIZE - AWG	1/0 AL	2/0 AL	4/0 AL	
COPPER EQUIVALENT (*AWG)	2	1	2/0	
STRANDING	7 X .1228	7 X .1379	19 X .1055	
DIAMETER IN INCHES	.368	.414	.528	
ULTIMATE STRENGTH TENSION IN POUNDS	1990	2510	3890	
AREA OF CONDUCTOR CIRCULAR MILS	105600	133100	211600	
ALLOWABLE TENSION 60% ULT. POUNDS	1194	1506	* 2334	
FEET PER POUNDS	10.1	8.01	5.04	
POUNDS PER 1000 FEET	98.9	124.8	198.6	
CURRENT CARRYING CAPACITY IN AMPERES	WINTER	245	285	385
	SUMMER	200	235	315

Winter amp ratings are based on a conductor temperature of 75°C with an air temperature of 25°C sun and wind 2 FT/SEC.

Summer amp ratings are based on a conductor temperature of 75°C with an air temperature of 40°C sun and wind 2 FT/SEC.

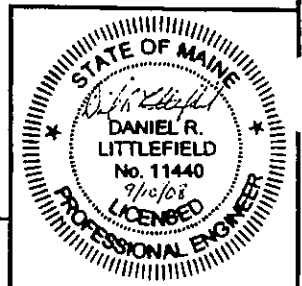
Conductors shown in this chart are repair items only, not to be used for new construction.

* Allowable tension may be limited by construction design criterion

CADD SYSTEM ONLY

DRAWN RCE
DATE 01/01/81

Energy East



MATERIAL 10*	CODE NAME		SIZE - AWG	COPPER EQUIVALENT	STRANDING	DIAMETER IN INCHES	ULTIMATE STRENGTH TENSION IN POUNDS	AREA OF CONDUCTOR CIRCULAR MILS	ALLOWABLE TENSION 60% ULT. POUNDS	FEET PER POUNDS	POUNDS PER 1000 FEET	CURRENT CARRYING CAPACITY IN AMPERES	
	TURKEY	SWANATE										WINTER	SUMMER
6000204485	TURKEY	SWANATE	6	6	6X.0661	.198	1190	26250	714	27.8	36	105	85
6000204508	SPARATE	RAVEN	4	2	7X.0772	.257	2360	41740	1416	14.9	67	140	115
6000204554	QUAIL	PENGUIN	2	1/0	7X.0974	.325	3640	66370	* 2184	9.34	107	185	150
6000204600	ORIOLE	ORIOLE	1/0	2/0	6X.1327	.398	4380	105500	* 2628	6.89	145	240	200
6000204623	PENGUIN	ORIOLE	2/0	4/0	6X.1489	.447	5300	133100	* 3180	5.46	183	275	225
6000204669	ORIOLE	ORIOLE	4/0	4/0	6X.1878	.563	8350	211600	* 5010	3.44	291	360	295
6000204738	ORIOLE	ORIOLE	336.4MCM	4/0	30X.1059	.741	17300	336400	* 10380	1.90	526	535	435

Winter amp ratings are based on a conductor temperature of 75°C with an air temperature of 25°C sun and wind 2 FT/SEC.
 Summer amp ratings are based on a conductor temperature of 75°C with an air temperature of 40°C sun and wind 2 FT/SEC.
 Conductors shown in this chart are repair items only, not to be used for new construction.
 * Allowable tension may be limited by construction design criterion.

REVISION	DATE	BY	DESCRIPTION
90/03/01	REC	CS	DESIGNED
REVISION	DATE	BY	DESCRIPTION
REVISION	DATE	BY	DESCRIPTION

EnergyEast

DATE	BY	DESCRIPTION
5/7/02/21	RCE	DESIGNED
DATE	BY	DESCRIPTION
DATE	BY	DESCRIPTION

ONLY SYSTEMS
 BE REVISED THE
 THIS DRAWING SHEET





General: The following tables contain information necessary for proper design and installation of overhead conductors. The tables consist of "stringing sags" and "final sags" for all commonly used conductors in the CMP system. The stringing sags tables are to be used for all new installations of overhead conductors. The final sags tables are to be used for designing new construction to allow for proper clearances and for resagging existing lines when construction changes are made.

DESIGNED	DRAWN	DATE	REVISED	REVISED	REVISED
JEC	RFW	2/01/94	JEC	GRG	10/01/01
CS	REC				

Underlying Assumptions: The tables have been designed to comply with all applicable safety codes and good engineering and construction practices. Where possible, conductor tensions have been limited to either 2000 lb. or 3000 lb. tensions under heavy loading conditions. Heavy loading conditions are defined as one half inch radial thickness of ice on the conductor and a four pound per square foot horizontal wind pressure perpendicular to the conductor (NEC 250B). While some conductors may have ultimate breaking strengths greater than these values, these values ensure that cross arm strengths are not exceeded. In addition, The National Electrical Safety Code requires that a conductor tension under worse case conditions not exceed 60% of its rated breaking strength. It also requires that at 60 degrees Fahrenheit, the conductor tension not exceed 35% of its rated breaking strength when installed nor 25% of its rated breaking after reaching final sag conditions (NEC 261H2).

Use of Sag Tables: The sag tables are set up with two different sag specifications. Stringing sag information is to be used when installing new conductors. Final sag information is to be used in determining the amount of vertical space required for conductor clearances. Specifically, the largest sag as specified in the final sag table for a given length span and type of conductor is to be used in conjunction with required conductor spacing (power and communication) to determine the proper vertical CMP space on a pole. In addition, the final sag tables are to be used for resagging conductors, which have been subjected to final sag conditions, when they have been detached from poles for maintenance or construction purposes.

Determining Ruling Span: Ruling span is defined as a weighted average of various length spans that occur between dead ends.

FOR PURPOSES OF ESTIMATION IT MAY BE EASIER TO TAKE THE AVERAGE OF THE SPANS AND APPROXIMATE THE RULING SPAN WITH THIS VALUE.

Strictly speaking, a ruling span can be calculated from the following formula.

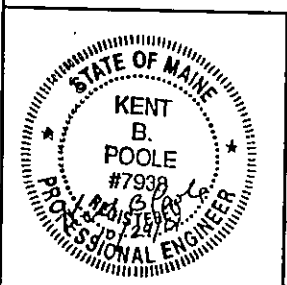
$$RULING SPAN = \sqrt{\frac{S_1^3 + S_2^3 + S_3^3 + \dots + S_N^3}{S_1 + S_2 + S_3 + \dots + S_N}}$$

The equation says to take the sum of the cubes of each span divided by the sum of the spans, and then to take the square root of the total.

In the tables when two ruling spans are given, the longer ruling span will be used primarily in rural areas where pole spans are generally longer, and the shorter ruling span will be generally be used in urban areas where poles are closer together.

DESIGNED	DRAWN	DATE	ORIGINAL	BCB	RFW
		1/28/94			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

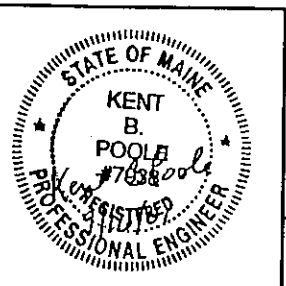




THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	BCB
DATE	RFW
	1/28/94

DESIGNED	REVISED	REVISED
DRAWN	CS	
DATE	CMH	
	8/24/01	



STRINGING SAG CHART - FOR INSTALLATION

336, 400 CM BARE ALUMINUM WIRE
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
100		5	6	8	10	12	13	16
125		8	10	13	16	18	21	25
150		11	14	19	23	27	30	37
175		15	20	25	31	36	41	50
200		19	26	33	40	47	54	65
STRINGING TENSION (LBS.)	1292	983	741	576	471	402	354	292

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

336, 400 CM BARE ALUMINUM WIRE
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	11	12	5	7	9	11	12	14	15	18
125	17	19	8	11	14	17	19	22	24	28
150	25	28	11	15	20	24	28	31	35	41
175	34	38	15	21	28	33	38	43	47	55
200	44	49	20	27	36	43	50	56	62	72
FINAL TENSION (LBS.)	2000	1269	961	702	527	446	383	340	308	263



DESCRIPTION
336, 400 CM BARE ALUMINUM WIRE
250 FOOT RULING SPAN

MACRO

STRINGING SAG CHART - FOR INSTALLATION

336, 400 CM BARE ALUMINUM WIRE
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
150	17	19	21	23	24	26	27	30
200	30	34	37	40	43	46	48	53
250	47	53	58	63	67	71	76	83
300	68	76	83	90	97	103	109	120
350	92	103	113	123	132	140	148	164

STRINGING
TENSION (LBS.)

630	565	515	475	443	416	394	357
-----	-----	-----	-----	-----	-----	-----	-----

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

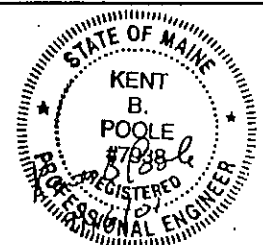
336, 400 CM BARE ALUMINUM WIRE
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. ICE		15		30		45		60		75		90		120		
	0 DEG. ICE 4" WIND	1/2" ICE	0	15	30	45	60	75	90	120	0	15	30	45	60	75	
150	25	26	19	21	23	25	26	28	29	32	26	28	29	32	26	28	29
200	45	47	35	38	41	44	47	49	52	57	44	47	49	52	47	49	52
250	70	73	54	59	65	69	73	77	81	88	69	73	77	81	73	77	81
300	100	105	78	85	93	99	105	111	117	127	99	105	111	117	105	111	117
350	137	144	106	116	127	134	143	151	159	174	134	143	151	159	143	151	159

FINAL
TENSION (LBS.)

2000	1341	550	503	460	434	408	387	368	338
------	------	-----	-----	-----	-----	-----	-----	-----	-----



DESIGNED	BCB
DRAWN	RFW
DATE	1/28/94

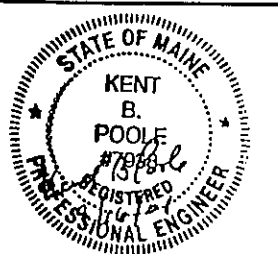
DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	BCB
DATE	RFW
	2/15/94

DESIGNED	REVISED	REVISED
DRAWN	CS	
DATE	CMH	
	8/24/01	



STRINGING SAG CHART - FOR INSTALLATION
 336, 400 CM BARE ALUMINUM WIRE
 300 FOOT RULING SPAN
 3000 LB. MAXIMUM TENSION
 USE APPROPRIATE GUYS AND STRUCTURES

TEMPERATURE IN DEGREES F
 CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
200	10	11	14	16	19	22	25	31
250	15	18	21	25	30	35	39	48
300	22	26	31	37	43	50	56	69
350	29	35	42	50	59	68	77	94
400	38	46	55	65	77	89	100	122
STRINGING TENSION (LBS.)	1975	1662	1389	1165	990	858	758	622

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

336, 400 CM BARE ALUMINUM WIRE
 300 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
 CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.	32 DEG.	1/2" ICE	0	15	32	45	60	75	90	120
200	30	30	1/2" ICE	15	18	22	24	27	30	33	37
250	46	47	4" WIND	23	28	34	38	42	47	51	59
300	67	68		34	40	49	55	61	67	73	84
350	91	93		46	55	66	74	83	92	100	115
400	119	121		60	72	86	97	109	120	131	150
FINAL TENSION (LBS.)	3000	2068		1273	1056	880	783	699	634	583	508

MACRO

DESCRIPTION
 336, 400 CM BARE ALUMINUM WIRE
 300 FOOT RULING SPAN - 3000 LB. MAXIMUM TENSION

PAGE
 354-3

STRINGING SAG CHART - FOR INSTALLATION

336, 400 CM ALUMINUM 8 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
100	6	7	9	10	12	14	15	18
125	9	11	14	16	19	21	24	28
150	13	16	20	24	27	31	34	40
175	17	22	27	32	37	42	46	54
200	23	29	35	42	48	55	60	71
225	29	36	45	53	61	69	76	89
250	35	45	55	66	76	85	94	110
STRINGING TENSION (LBS.)	1121	889	721	605	524	466	422	360

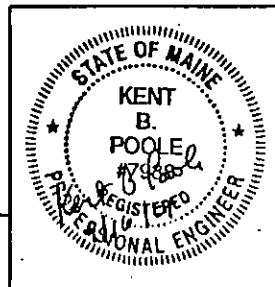
FINAL SAG CHART - FOR DESIGN & MAINTENANCE

336, 400 CM ALUMINUM 8 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	13	14	7	9	11	13	14	16	17	19
125	20	22	11	14	17	20	22	24	26	30
150	29	32	16	21	25	28	32	35	38	43
175	39	43	22	28	34	38	43	48	52	59
200	51	56	29	37	45	50	56	62	67	77
225	65	71	37	46	56	64	71	79	85	98
250	80	88	46	57	70	79	88	97	105	121
FINAL TENSION (LBS.)	2000	1341	864	694	570	505	451	409	377	330

*OVERALL DIAMETER = 0.836" (APPROXIMATELY 27/32 INCHES)



DESIGNED	BCB
DRAWN	RFW
DATE	2/17/94

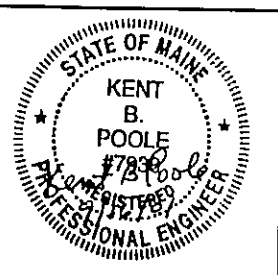
DESIGNED	CMH
DRAWN	CMH
DATE	8/24/01

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	BCB
DATE	RFW
	1/28/94

DESIGNED	REVISED	REVISED	REVISED
DRAWN	CS		
DATE	CMH		
	8/24/01		



MACRO

DESCRIPTION
336, 400 CM ALUMINUM 8 KV TREE WIRE
250 FOOT RULING SPAN

PAGE
354-5

STRINGING SAG CHART - FOR INSTALLATION
336, 400 CM ALUMINUM 8 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
150	22	24	25	27	28	30	31	33
200	39	42	45	48	50	53	55	59
250	61	66	70	74	78	82	86	93
300	89	95	101	107	113	118	124	134
350	121	129	138	146	154	161	168	182
STRINGING TENSION (LBS.)	646	602	566	535	508	485	464	430

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

336, 400 CM ALUMINUM 8 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE		32 DEG. 1/2" ICE		0 DEG. 1/2" ICE		32 DEG. 1/2" ICE	
	4" WIND	0	15	32	45	60	75	90
150	29	30	24	26	29	30	31	33
200	51	53	43	46	51	53	56	58
250	80	84	67	71	80	83	87	91
300	115	120	97	103	115	120	125	130
350	157	164	132	140	156	163	171	178
FINAL TENSION (LBS.)	2000	1415	593	557	501	478	458	441

* OVERALL DIAMETER = 0.836" (APPROXIMATELY 27/32 INCHES)



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

DESCRIPTION
336,400 CM ALUMINUM 15 KV TREE WIRE
150 FOOT RULING SPAN

MACRO

STRINGING SAG CHART - FOR INSTALLATION
336,400 CM ALUMINUM 15 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
100	8	9	11	12	14	15	17	19
125	12	15	17	19	22	24	26	30
150	17	21	25	28	31	34	37	43
175	24	29	33	38	43	47	51	58
200	31	37	44	50	56	61	66	76
STRINGING TENSION (LBS.)	1009	842	720	632	566	515	475	415

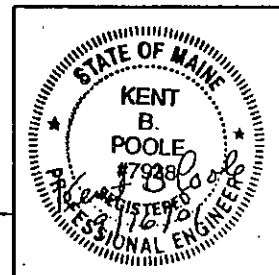
FINAL SAG CHART - FOR DESIGN & MAINTENANCE

336,400 CM ALUMINUM 15 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE		32 DEG. 1/2" ICE		4" WIND	
	0	15	30	45	60	75
100	14	16	10	14	16	17
125	22	24	15	22	24	26
150	32	35	21	32	35	38
175	44	48	29	44	48	52
200	57	63	38	57	63	68
FINAL TENSION (LBS.)	2000	1398	821	700	502	464
			604	551	433	385

* OVERALL DIAMETER = 0.996"



DESIGNED	CS
DRAWN	CMH
DATE	8/27/01

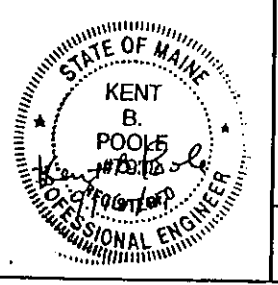
DESIGNED	BCB
DRAWN	RFW
DATE	1/27/94

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	BCB
DATE	RFW
	1/27/94

DESIGNED	REVISED	REVISED
DRAWN	CS	
DATE	CMH	
	8/24/01	



MACRO

DESCRIPTION
336,400 CM ALUMINUM 15 KV TREE WIRE
250 FOOT RULING SPAN

PAGE
354-7

STRINGING SAG CHART - FOR INSTALLATION
336,400 CM ALUMINUM 15 KV TREE WIRE *
250 FOOT RULING SPAN

SPAN FEET	TEMPERATURE IN DEGREES F CONDUCTOR SAG IN INCHES										STRINGING TENSION (LBS.)
	0	15	30	45	60	75	90	120	150	200	
150	27	28	29	31	32	33	34	37	38	40	666
200	47	50	52	55	57	59	61	65	68	72	486
250	74	78	82	85	89	92	95	102	106	110	486
300	106	112	118	123	128	133	138	147	152	157	486
350	145	153	160	167	174	181	187	200	208	215	486

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

336,400 CM ALUMINUM 15 KV TREE WIRE *
250 FOOT RULING SPAN

SPAN FEET	TEMPERATURE IN DEGREES F CONDUCTOR SAG IN INCHES										FINAL TENSION (LBS.)
	0 DEG. 1/2" ICE 4" WIND	32 DEG. 1/2" ICE	0	15	30	45	60	75	90	120	
150	32	34	28	30	31	32	33	35	36	38	2000
200	57	60	50	53	55	57	60	62	64	68	486
250	90	93	79	83	87	90	93	96	100	106	486
300	129	135	113	119	125	129	134	139	144	152	486
350	176	183	154	162	170	176	183	189	196	208	486

* OVERALL DIAMETER = 0.996 "



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

DESCRIPTION
336,400 CM ALUMINUM 35 KV TREE WIRE
150 FOOT RULING SPAN

MACRO

STRINGING SAG CHART - FOR INSTALLATION

336,400 CM ALUMINUM 35 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
100	12	14	15	16	18	19	20	22
125	19	22	24	26	27	29	31	34
150	28	31	34	37	39	42	44	49
175	38	42	46	50	54	57	61	67
200	50	55	60	65	70	75	79	87

STRINGING
TENSION (LBS.)

922	832	760	702	654	615	581	526
-----	-----	-----	-----	-----	-----	-----	-----

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

336,400 CM ALUMINUM 35 KV TREE WIRE *
150 FOOT RULING SPAN

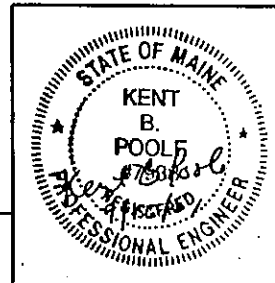
TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4# WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	18	19	14	15	17	18	19	20	21	23
125	27	30	22	24	26	28	30	31	33	36
150	39	43	31	34	38	40	43	45	47	52
175	54	58	43	47	51	54	58	61	65	71
200	70	76	56	61	67	71	76	80	84	92

FINAL
TENSION (LBS.)

2000	1497	820	749	685	645	606	573	544	498
------	------	-----	-----	-----	-----	-----	-----	-----	-----

* OVERALL DIAMETER = 1.296"



DESIGNED	BCB
DRAWN	RFW
DATE	1/28/94

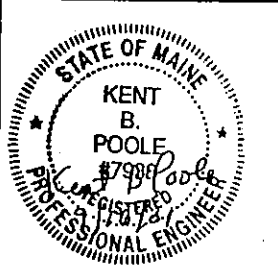
DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	BCB
DATE	RFW
	1/28/94

DESIGNED	REVISED	REVISED	REVISED
DRAWN	CS		
DATE	CMH		
	8/24/01		



STRINGING SAG CHART - FDR INSTALLATION

336, 400 CM ALUMINUM 35 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
150	16	18	19	21	22	24	25	28
200	28	31	34	37	40	42	45	50
250	44	49	53	58	62	66	70	78
300	64	70	77	83	89	95	101	112
350	87	96	104	113	121	129	137	152
STRINGING TENSION (LBS.)	1610	1465	1344	1244	1158	1086	1024	924

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

336, 400 CM ALUMINUM 35 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4# WIND	32 DEG. 1/2" ICE	D	15	32	45	60	75	90	120
150	26	27	20	22	23	25	26	27	29	31
200	47	49	35	38	41	44	46	49	51	56
250	73	76	55	60	65	68	72	76	80	87
300	105	110	80	86	93	98	104	110	115	126
350	143	150	108	117	127	134	142	150	157	171
FINAL TENSION (LBS.)	3000	2321	1294	1197	1107	1049	990	940	896	824

* OVERALL DIAMETER = 1.296

MACRO

DESCRIPTION
336, 400 CM ALUMINUM 35 KV TREE WIRE
250 FOOT RULING SPAN

PAGE
354-9



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

DESCRIPTION
*1/0 AAAC BARE WIRE
150 FOOT RULING SPAN

MACRO

STRINGING SAG CHART - FOR INSTALLATION

*1/0 AAAC BARE WIRE
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
100	1	1	1	1	1	2	2	2
125	1	2	2	2	2	2	3	4
150	2	2	3	3	3	4	4	6
175	3	3	3	4	4	5	5	8
200	4	4	4	5	6	6	7	10

STRINGING
TENSION (LBS.)

1831

1687

1544

1401

1258

1116

974

695

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*1/0 AAAC BARE WIRE
150 FOOT RULING SPA

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE		32 DEG. 1/2" ICE		0 DEG. 4" WIND		32 DEG. 4" WIND	
	0	15	30	45	60	75	90	120
100	1	1	1	1	2	2	2	4
125	1	2	2	2	3	3	4	7
150	2	2	3	3	4	5	6	10
175	3	3	3	4	5	6	8	14
200	4	4	4	6	7	8	10	18

FINAL
TENSION (LBS.)

2000

1522

1734

1559

1360

1209

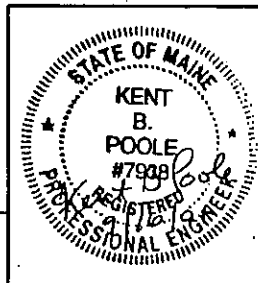
1035

695

863

695

393



DESIGNED	BCB
DRAWN	RFW
DATE	1/25/94

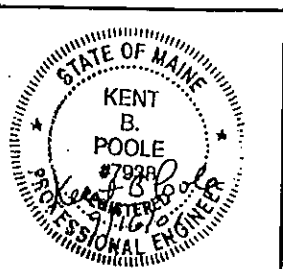
DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	BCB
DRAWN	RFW
DATE	1/25/94

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01



MACRO

DESCRIPTION
#1/0 AAAC BARE WIRE
250 FOOT RULING SPAN

PAGE
354-11

STRINGING SAG CHART - FOR INSTALLATION

#1/0 AAAC BARE WIRE
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
150		3	3	4	4	5	6	9
200		5	6	7	8	9	11	16
250		7	9	11	12	14	17	25
300		11	13	15	18	21	25	37
350		15	18	21	24	28	33	50
STRINGING TENSION (LBS.)	1448	1307	1166	1028	892	760	636	427

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

#1/0 AAAC BARE WIRE
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE		0		15		32		45		60		75		90		120	
	4# WIND																	
150	19	16	3	4	4	4	4	4	5	6	6	6	8	8	10	14	14	14
200	34	29	5	6	6	8	8	8	9	11	11	11	14	14	18	18	18	26
250	52	45	9	10	10	12	12	12	14	17	17	17	22	22	27	27	27	40
300	76	64	12	14	14	17	17	17	20	25	25	25	31	31	40	40	40	58
350	103	87	17	19	19	23	23	23	28	34	34	34	43	43	54	54	54	78
FINAL TENSION (LBS.)	2000	1414	1269	1099	911	773	625	496	395	272								



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

DESCRIPTION
#1/0 AAAC BARE WIRE
300 FOOT RULING SPAN

MACRO

STRINGING SAG CHART - FOR INSTALLATION

#1/0 AAAC BARE WIRE
300 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

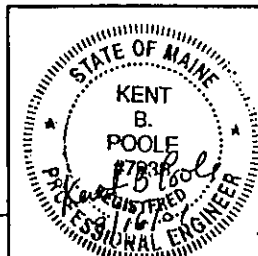
SPAN FEET	0	15	30	45	60	75	90	120
200	6	7	8	9	10	12	15	20
250	9	10	12	14	16	19	23	32
300	13	15	17	20	23	28	33	46
350	18	20	23	27	32	38	45	63
400	23	26	30	35	41	49	59	82
STRINGING TENSION (LBS.)	1190	1054	920	792	671	563	470	339

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

#1/0 AAAC BARE WIRE
300 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4* WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
200	34	29	7	9	11	13	16	19	22	28
250	53	46	11	13	17	20	24	29	34	44
300	76	66	16	19	24	29	35	42	49	63
350	103	90	22	26	33	39	48	57	67	86
400	135	118	29	34	43	51	63	75	88	112
FINAL TENSION (LBS.)	2000	1371	965	810	649	543	444	370	317	249



DESIGNED	BCB
DRAWN	RFW
DATE	2/10/94

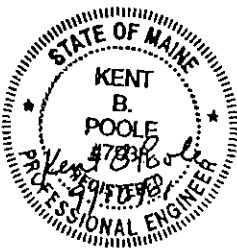
DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	BCB	ORIGINAL
DRAWN	RFW	
DATE	2/16/94	

DESIGNED	C5	REVISED	REVISED
DRAWN	CMH		
DATE	8/24/01		



STRINGING SAG CHART - FOR INSTALLATION

*1/0 AAAC 8 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
100	1	2	3	4	5	6	8	11
125	2	3	4	5	6	8	10	13
150	3	4	5	6	8	10	13	16
175	4	5	6	8	10	13	16	20
200	5	6	8	10	13	16	20	23
225	6	8	10	13	16	20	23	
250	7	9	11	14	16	20	23	
STRINGING TENSION (LBS.)	1776	1633	1490	1348	1206	1066	927	659

MACRO

DESCRIPTION
*1/0 AAAC 8 KV TREE WIRE
150 FOOT RULING SPAN

PAGE
354-13

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*1/0 AAAC 8 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4# WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	9	8	1	2	2	2	2	3	4	6
125	15	12	2	2	3	3	4	5	6	10
150	21	18	3	4	4	5	5	7	8	14
175	29	24	4	5	6	6	7	9	11	19
200	38	32	6	6	7	8	10	12	15	24
225	48	40	7	8	9	11	12	15	19	31
250	59	50	9	10	12	13	15	18	23	38
FINAL TENSION (LBS.)	2000	1524	1667	1493	1296	1146	976	810	652	390

* OVERALL DIAMETER = 0.538 "



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

STRINGING SAG CHART - FOR INSTALLATION

*1/0 AAAC 8 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
150	4	5	5	6	7	8	10	13
200	7	8	9	11	12	14	17	23
250	11	13	14	17	19	22	26	36
300	16	18	21	24	28	32	38	52
350	22	25	28	32	38	44	52	71
STRINGING TENSION (LBS.)	1302	1166	1032	902	779	665	564	412

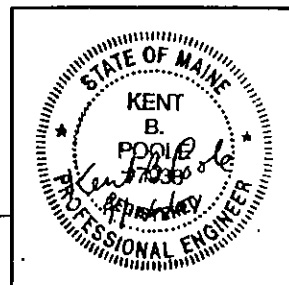
FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*1/0 AAAC 8 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.	32 DEG.	0	15	32	45	60	75	90	120
150	21	19	5	6	7	8	10	12	14	18
200	38	34	9	10	12	14	17	21	24	32
250	59	53	14	16	19	23	27	33	38	49
300	85	76	20	23	28	33	39	47	55	71
350	116	103	27	31	38	44	53	64	75	97
FINAL TENSION (LBS.)	2000	1433	1100	942	775	660	547	457	390	303

* OVERALL DIAMETER = 0.538 "



DESIGNED	BCB
DRAWN	RFW
DATE	2/17/94

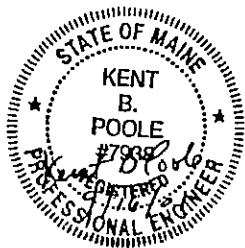
DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	BCB
DRAWN	RFW
DATE	1/24/94

DESIGNED	C5
DRAWN	CMH
DATE	8/24/01



STRINGING SAG CHART - FOR INSTALLATION

*1/0 AAAC 15 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
100		2	3	3	3	4	4	6
125		4	4	5	5	6	7	9
150		5	6	7	8	9	10	14
175		7	8	9	10	12	13	18
200		10	11	12	13	15	17	24
STRINGING TENSION (LBS.)	1683	1542	1402	1263	1126	992	862	627

MACRO

DESCRIPTION
*1/0 AAAC 15 KV TREE WIRE
150 FOOT RULING SPAN

PAGE
354-15

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*1/0 AAAC 15 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4# WIND	0	15	32	45	60	75	90	120
100		10	2	3	4	4	5	6	9
125		16	4	4	6	7	8	10	14
150		22	5	6	8	9	11	14	20
175		30	7	8	11	13	15	19	27
200		40	10	11	14	17	20	24	36
FINAL TENSION (LBS.)	2000	1535	1555	1385	1194	1052	895	747	617
									424

* OVERALL DIAMETER = 0.698" (APPROXIMATELY 11/16 INCHES)

STRINGING SAG CHART - FOR INSTALLATION

*1/0 AAAC 15 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
150	8	9	10	11	13	14	16	19
200	14	16	17	20	22	25	28	34
250	22	24	27	31	35	39	44	53
300	31	35	39	44	50	56	63	76
350	42	48	54	61	68	77	85	103

STRINGING TENSION (LBS.)	1088	970	862	763	677	603	541	448
--------------------------	------	-----	-----	-----	-----	-----	-----	-----

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

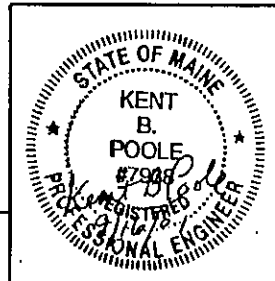
*1/0 AAAC 15 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND		32 DEG. 1/2" ICE		45		60		75		90		120	
	D	SAG	D	SAG	D	SAG	D	SAG	D	SAG	D	SAG	D	SAG
150	10	23	11	23	13	14	16	16	18	20	20	23	23	23
200	17	42	20	42	23	25	29	29	32	35	35	40	40	40
250	27	65	31	65	36	40	45	45	49	54	54	63	63	63
300	38	94	44	94	51	57	64	64	71	78	78	91	91	91
350	52	128	60	128	70	78	87	87	97	106	106	124	124	124

FINAL TENSION (LBS.)	2000	1471	887	772	663	594	529	477	436	373
----------------------	------	------	-----	-----	-----	-----	-----	-----	-----	-----

* OVERALL DIAMETER = 0.698" (APPROXIMATELY 11/16 INCHES)



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

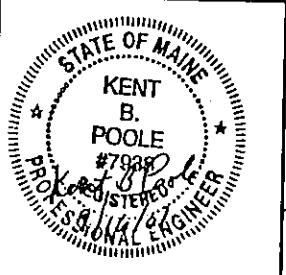
DESIGNED	BCB
DRAWN	RFW
DATE	1/24/94

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	BCB	ORIGINAL
DRAWN	RFW	
DATE	1/24/94	

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH		
DATE	8/24/01		



STRINGING SAG CHART - FOR INSTALLATION

*1/0 AAAC 35 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
100	4	5	5	6	6	7	8	10
125	7	7	8	9	10	11	12	16
150	9	10	11	13	14	16	18	23
175	13	14	15	17	19	22	24	31
200	17	18	20	22	25	28	32	40
STRINGING TENSION (LBS.)	1510	1377	1247	1122	1003	892	790	623

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*1/0 AAAC 35 KV TREE WIRE *
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	14	13	5	5	6	7	8	9	10	13
125	21	21	7	8	9	11	12	14	16	20
150	31	30	10	12	14	15	18	20	23	29
175	42	40	14	16	19	21	24	28	31	39
200	55	53	19	21	24	27	31	36	41	51
FINAL TENSION (LBS.)	2000	1564	1357	1203	1038	923	803	701	616	491

* OVERALL DIAMETER = 0.998 "

MACRO

DESCRIPTION
*1/0 AAAC 35 KV TREE WIRE
150 FOOT RULING SPAN

PAGE
354-17



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

DESCRIPTION
*1/0 AAAC 35 KV TREE WIRE
250 FOOT RULING SPAN

MACRO

STRINGING SAG CHART - FOR INSTALLATION

*1/0 AAAC 35 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
150	17	18	19	21	22	23	25	27
200	29	32	34	37	39	42	44	49
250	46	50	53	57	61	65	69	76
300	66	72	77	83	88	94	99	110
350	90	97	105	112	120	127	135	149
STRINGING TENSION (LBS.)	857	793	737	687	645	607	574	520

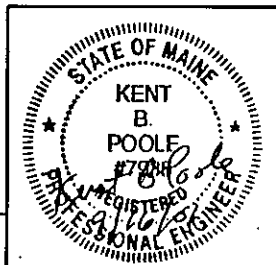
FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*1/0 AAAC 35 KV TREE WIRE *
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE		15		32		45		60		75		90		120					
	0 DEG. 4" WIND	1/2" ICE	0	15	32	45	60	75	90	120	0	15	32	45	60	75				
150	31	30	19	21	22	24	25	26	28	30	19	21	22	24	25	26	28			
200	55	54	34	37	40	42	44	47	49	54	34	37	40	42	44	47	49			
250	86	84	53	57	62	65	69	73	77	84	53	57	62	65	69	73	77			
300	124	122	77	83	89	94	100	105	111	121	77	83	89	94	100	105	111			
350	169	166	104	113	122	128	136	143	151	165	104	113	122	128	136	143	151			
FINAL TENSION (LBS.)	2000	1533	739	687	636	603	569	540	514	471	2000	1533	739	687	636	603	569	540	514	471

* OVERALL DIAMETER = 0.998 "



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

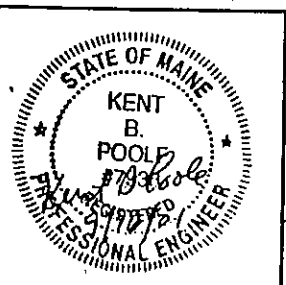
DESIGNED	BCB
DRAWN	RFW
DATE	1/25/94

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	BCB	ORIGINAL
DRAWN	RFW	
DATE	2/15/94	

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH		
DATE	8/24/01		



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

MACRO

DESCRIPTION
 *4/0 AWG STRANDED BARE COPPER MHD
 150 FOOT RULING SPAN

PAGE
 354-19

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*4/0 AWG STRANDED BARE COPPER MHD
 150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
 CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4# WIND	32 DEG. 1/2" ICE	15	32	45	60	75	90	120
100	13	13	9	11	12	13	15	16	17
125	20	21	14	18	19	21	23	24	27
150	29	30	20	26	28	30	33	35	39
175	39	41	27	35	38	41	44	47	53
200	51	54	36	46	50	54	58	62	70
FINAL TENSION (LBS.)	2000	1437	1101	861	794	730	678	634	566

NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*4/0 AWG STRANDED WP COPPER MHD
150 FOOT RULING SPAN

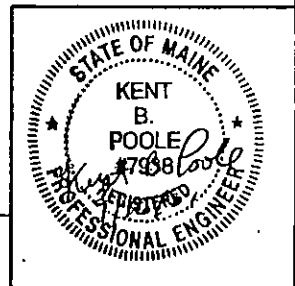
TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND		32 DEG. 1/2" ICE		15		32		45		60		75		90		120																												
	15	24	34	47	61	15	20	29	40	52	15	23	34	46	60	16	25	36	49	64	17	26	38	52	68	18	28	40	54	71	19	30	44	60	78										
100																																													
125																																													
150																																													
175																																													
200																																													
FINAL TENSION (LBS.)	2000					2000					1508					1008					802					754					714					678					620				

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	BCB
DRAWN	RFW
DATE	2/16/94

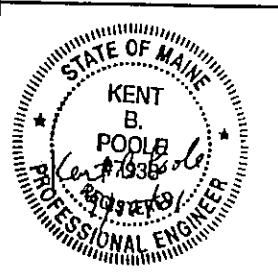
THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY.

DESIGNED	ORIGINAL
DRAWN	BCB
DATE	RFW
	2/11/94

DESIGNED	REVISED	REVISED
DRAWN	CS	
DATE	CMH	
	8/24/01	



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*2/0 AWG STRANDED BARE COPPER MHD
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4# WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	10	10	4	5	6	7	8	9	10	13
125	16	16	7	8	10	11	13	15	16	20
150	23	23	10	12	14	16	18	21	24	29
175	31	31	14	16	19	21	25	28	32	39
200	42	40	18	21	25	28	32	37	42	51

FINAL TENSION (LBS.) 2000	1454	1382	1193	1004	879	760	665	591	486
---------------------------	------	------	------	------	-----	-----	-----	-----	-----



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

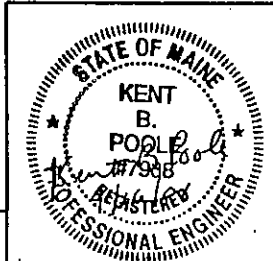
FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*2/0 AWG STRANDED BARE COPPER MHD
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.		32 DEG.		45		60		75		90		120	
	0 DEG.	1/2" ICE	1/2" ICE	1/2" ICE	4" WIND									
150	23	23	16	17	20	21	24	26	22	24	26	24	26	26
200	42	41	28	31	35	38	42	46	40	42	46	42	46	46
250	65	64	45	48	55	59	65	72	62	65	72	65	72	72
300	94	93	64	69	80	85	94	103	90	94	103	94	103	103
350	128	126	87	94	109	115	128	141	122	128	141	128	141	141

FINAL TENSION (LBS.) 2000



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	BCB
DRAWN	RFW
DATE	1/27/94

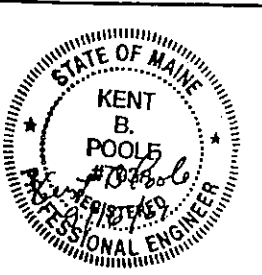
THIS DRAWING SHALL
BE REVISION ON THE
CADD SYSTEM ONLY



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	BCB
DATE	RFW
	2/11/94

DESIGNED	REVISED
DRAWN	CS
DATE	CMH
	8/24/01



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEWORKERS USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

MACRO

DESCRIPTION
*2/0 AWG STRANDED WP COPPER MHD
150 FOOT RULING SPAN

PAGE
354-23

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*2/0 AWG STRANDED WP COPPER MHD
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	13	13	7	7	9	10	11	12	13	15
125	20	20	10	12	13	15	17	18	20	23
150	28	28	15	17	19	21	24	26	29	33
175	39	39	20	23	26	29	33	36	39	45
200	50	50	26	30	34	38	43	47	51	59

FINAL TENSION (LBS.)	2000	1498	1194	1048	909	822	738	670	615	531
----------------------	------	------	------	------	-----	-----	-----	-----	-----	-----



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART FOR DESIGN & MAINTENANCE

*2/0 AWG STRANDED WP COPPER MHO
250 FOOT RULING SPAN

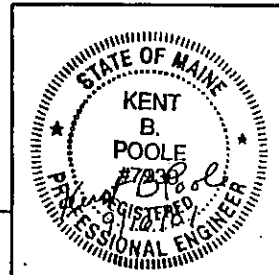
TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE		32 DEG. 1/2" ICE		0		15		32		45		60		75		90		120	
	4" WIND																			
150	28	28	22	23	25	26	27	28	29	29	31	31	31	31	31	31	31	31	31	31
200	51	51	40	42	44	45	47	49	51	51	54	54	54	54	54	54	54	54	54	54
250	79	79	62	65	68	71	74	77	80	80	85	85	85	85	85	85	85	85	85	85
300	114	114	89	94	99	102	106	111	115	115	122	122	122	122	122	122	122	122	122	122
350	155	155	121	127	134	139	145	151	156	156	166	166	166	166	166	166	166	166	166	166
FINAL TENSION (LBS.)	2000	1499	795	757	719	693	666	642	620	620	581	581	581	581	581	581	581	581	581	581

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	BCB
DRAWN	RFW
DATE	1/27/94

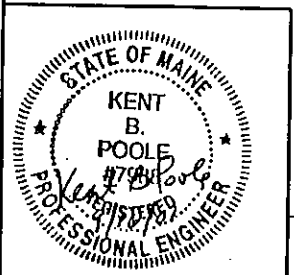
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	BCB
DATE	RFW
	2/11/94

DESIGNED	REVISED	REVISED
DRAWN	CS	
DATE	CMH	
	8/24/01	



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM, THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*1/0 AWG STRANDED BARE COPPER MHD
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4* WIND	32 DEG. 1/2" ICE	0	15'	32	45	60	75	90	120
100	10	9	3	4	4	5	5	6	7	10
125	15	14	5	6	6	7	8	10	11	15
150	22	19	7	8	9	10	12	14	17	22
175	29	26	10	11	13	14	17	19	22	30
200	38	35	13	14	16	19	22	25	29	39
FINAL TENSION (LBS.)	2000	1504	1545	1373	1185	1049	904	775	666	507



NOTE

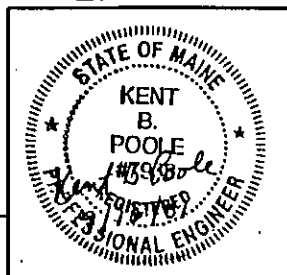
NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*1/0 AWG STRANDED BARE COPPER MHD
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4# WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120	FINAL TENSION (LBS.)
150	22	20	11	13	14	15	17	18	19	22	2000
200	38	36	20	22	25	27	29	32	34	39	1438
250	60	57	32	35	39	42	46	50	53	60	
300	87	82	45	50	56	61	66	72	77	87	
350	118	111	62	69	77	83	90	98	105	118	
			969	873	781	722	664	615	574	508	



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

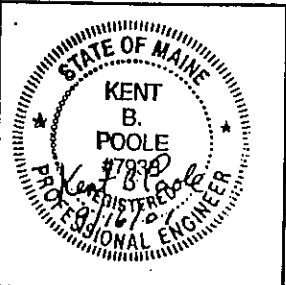
DESIGNED	BCB
DRAWN	RFW
DATE	1/26/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	BCB
DRAWN	RFW
DATE	2/11/94

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01



MACRO

DESCRIPTION
*1/0 AWG STRANDED WP COPPER MHD
150 FOOT RULING SPAN

PAGE
354-27

NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*1/0 AWG STRANDED WP COPPER MHD
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	12	11	5	5	6	7	8	9	10	12
125	18	17	7	8	9	11	12	14	15	19
150	26	25	10	12	14	15	17	19	22	27
175	36	34	14	16	18	21	23	27	30	36
200	46	44	19	21	24	27	31	35	39	47

FINAL TENSION (LBS.)	2000	1528	1374	1219	1057	945	831	735	655	537
----------------------	------	------	------	------	------	-----	-----	-----	-----	-----



CENTRAL MAINE POWER CO.

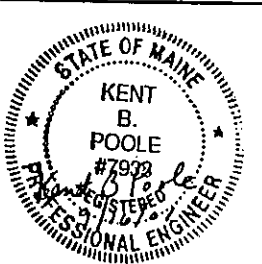
DISTRIBUTION CONSTRUCTION
STANDARDS



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	BCB
DATE	RFW
	2/10/94

DESIGNED	REVISED	REVISED
DRAWN	CS	
DATE	CMH	
	8/24/01	



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEWORKERS USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

MACRO

DESCRIPTION
*2 SOLID BARE COPPER MHO
150 FOOT RULING SPAN

PAGE
354-29

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*2 SOLID BARE COPPER MHO
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	11	10	3	3	4	4	5	6	7	9
125	18	15	5	5	6	7	8	9	11	14
150	26	21	7	7	9	10	11	13	15	20
175	35	29	9	10	12	13	15	18	21	28
200	46	38	12	13	15	17	20	23	27	36
FINAL TENSION (LBS.)	1446	1061	1026	916	795	707	611	525	449	338



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*2 SOLID BARE COPPER MHO
250 FOOT RULING SPAN

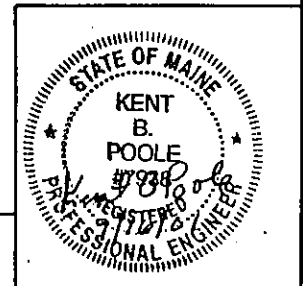
TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE		32 DEG. 1/2" ICE		45		60		75		90		120	
	0 DEG. 4" WIND	1/2" ICE	0	15	32	45	60	75	90	104	111	124	124	124
150	25	23	12	14	15	16	18	19	20	20	23	23	23	23
200	45	41	22	24	27	29	32	34	36	36	40	40	40	40
250	70	63	35	38	42	46	49	53	57	57	63	63	63	63
300	101	91	50	55	61	66	71	76	81	81	91	91	91	91
350	138	125	68	75	83	90	97	104	111	111	124	124	124	124
FINAL TENSION (LBS.)	1470	1000	550	498	449	417	386	360	338	338	302	302	302	302

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	BCB
DRAWN	RFW
DATE	1/20/94

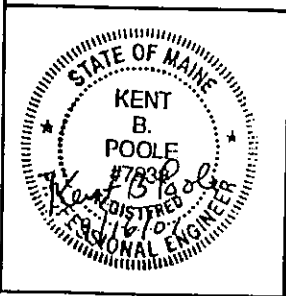
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	BCB
DRAWN	RFW
DATE	2/10/94

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT ONE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.



CENTRAL MAINE POWER CO.

MACRO

DESCRIPTION
#2 SOLID WP COPPER MHD
150 FOOT RULING SPAN

PAGE
354-31

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

#2 SOLID WP COPPER MHD
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120
100	13	12	4	5	5	6	7	8	9	11
125	21	18	7	7	8	9	11	12	14	17
150	30	26	9	11	12	14	16	18	20	25
175	40	36	13	14	17	19	21	24	27	34
200	53	47	17	19	22	24	28	31	36	44
FINAL TENSION (LBS.)	1470	1097	930	828	720	643	564	496	438	353

DISTRIBUTION CONSTRUCTION
STANDARDS

NOTE

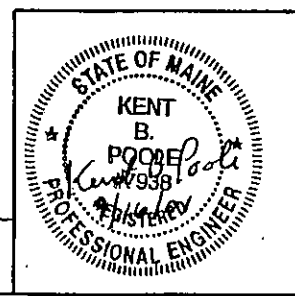
NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

#2 SOLID WP COPPER MHD
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND		32 DEG. 1/2" ICE		0	15	32	45	60	75	90	120
	150	30	28	19	20	21	24	22	24	25	26	28
200	53	50	34	36	38	42	40	42	44	46	49	49
250	83	78	53	56	60	65	62	65	69	72	77	77
300	119	112	76	80	86	94	90	94	99	103	111	111
350	162	153	103	110	117	128	122	128	134	140	152	152
FINAL TENSION (LBS.)	1470	1037	466	438	411	374	392	374	357	343	318	318



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	BCB
DRAWN	RFW
DATE	1/20/94

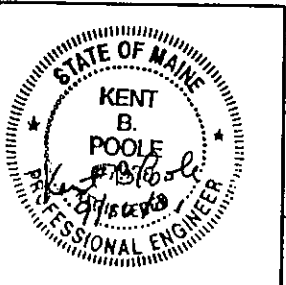
THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	BCB
DRAWN	RFW
DATE	2/17/94

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*4 SOLID BARE COPPER MHD
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.	32 DEG.	0	15	32	45	60	75	90	120
	1/2" ICE	1/2" ICE								
	# WIND									
100	16	13	4	5	6	7	8	9	10	12
125	25	21	7	8	9	10	12	14	16	19
150	35	30	9	11	13	15	17	20	23	28
175	48	41	13	15	18	20	24	27	31	38
200	63	53	17	20	23	27	31	36	40	50
225	80	67	21	25	29	34	39	45	51	63
FINAL TENSION (LBS.)	950	638	449	388	326	285	245	213	188	153



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEWORKERS USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*4 SOLID BARE COPPER MHD
200 FOOT RULING SPAN

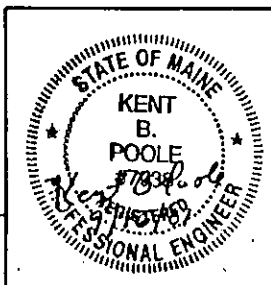
TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4* WIND	32 DEG. 1/2" ICE	0	15	32	45	60	75	90	120	FINAL TENSION (LBS.)
150	35	32	18	20	22	23	25	27	28	31	950
175	48	43	25	27	30	32	34	36	38	42	
200	63	57	32	35	39	42	45	47	50	55	
225	80	72	41	45	49	53	56	60	64	70	
250	99	88	50	55	61	65	70	74	78	87	
		602	236	215	195	183	171	160	152	138	

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	BCB
DRAWN	RFW
DATE	2/17/94

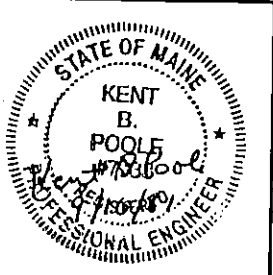
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	BCB
DRAWN	RFW
DATE	2/16/94

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINeworkERS USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.



CENTRAL MAINE POWER CO.

MACRO

DESCRIPTION
#4A COPPER COPPERWELD CONDUCTOR
150 FOOT RULING SPAN

PAGE
354-35

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

#4A COPPER COPPERWELD CONDUCTOR
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.	32 DEG.	45	60	75	90	120
	1/2" ICE	1/2" ICE					
	4" WIND						
100	10	7	2	2	3	3	4
125	15	11	3	4	4	5	6
150	22	16	4	6	6	7	9
175	29	22	5	8	8	9	12
200	38	29	7	10	11	12	16
FINAL TENSION (LBS.)	1691	1339	1286	984	885	788	604

DISTRIBUTION CONSTRUCTION
STANDARDS

NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM, THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*4A COPPER COPPERWELCO CONDUCTOR
250 FOOT RULING SPAN

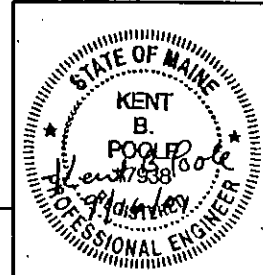
TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4# WIND		32 DEG. 1/2" ICE		45		60		75		90		120	
	19	33	41	59	101	15	32	45	60	75	90	120	6	9
150	4	7	11	16	22	4	5	6	6	6	7	7	6	7
200	7	11	16	22	28	8	9	10	10	11	12	12	11	12
250	11	16	22	28	34	12	14	16	16	17	19	19	17	19
300	16	22	28	34	41	17	21	22	22	25	28	28	25	28
350	22	28	34	41	48	24	28	31	31	34	37	37	34	37
FINAL TENSION (LBS.)	1969	1505	1356	1257	1147	1064	970	879	792	634				

DESIGNED	CS
DRAWN	CMCH
DATE	B/24/01

DESIGNED	BCB
DRAWN	RFW
DATE	1/21/94

THIS DRAWING SHALL
BE REVISED ON THE
CAD SYSTEM ONLY



MACRO

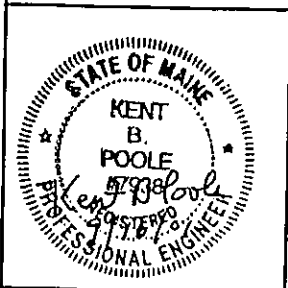
DESCRIPTION
#6A COPPER COPPERWELD CONDUCTOR
150 FOOT RULING SPAN

PAGE
354-37

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH		
DATE	8/24/01		

DESIGNED	BCB	ORIGINAL
DRAWN	RFW	
DATE	2/10/94	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEWORKERS USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

#6A COPPER COPPERWELD CONDUCTOR
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND	32 DEG. 1/2" ICE	45	60	75	90	120		
100	12	9	2	2	2	3	4		
125	19	14	3	3	3	4	6		
150	28	20	4	4	4	5	8		
175	38	28	5	5	5	7	12		
200	49	36	7	7	7	9	15		
FINAL TENSION (LBS.)	1215	928	901	837	765	646	584	522	404



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

NOTE

NO NEW COPPER OR COMPOSITE COPPER CONDUCTORS ARE BEING INSTALLED ON THE DISTRIBUTION SYSTEM. THEREFORE, ONLY THE FINAL SAGS, FOR THIS CONDUCTOR, ARE BEING PRESENTED HERE. THESE SAGS ARE FOR THE LINEMEN'S USE WHEN TRANSFERRING OR MAKING REPAIRS. THEY ARE ALSO FOR THE USE OF DESIGNERS WHEN LAYING OUT JOBS THAT REQUIRE THE TRANSFER OF THIS CONDUCTOR TO NEW POLES. IT IS ASSUMED THAT DUE TO ITS AGE THIS CONDUCTOR HAS BEEN LOADED TO HEAVY LOADING CONDITIONS.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

*6A COPPER COPPERWELD CONDUCTOR
250 FOOT RULING SPAN

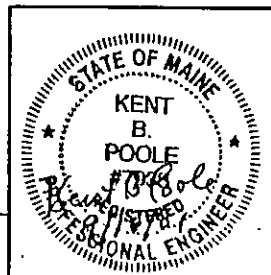
TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE		32 DEG. 1/2" ICE		45		60		75		90		120	
	4# WIND													
150	23	17	4	4	5	5	5	5	6	6	6	6	6	8
200	40	31	7	7	8	9	9	9	10	10	11	11	11	14
250	63	48	11	12	13	14	15	15	16	16	18	18	18	22
300	91	69	15	17	18	19	21	21	23	23	26	26	26	32
350	124	94	21	23	25	26	29	29	32	32	35	35	35	44
FINAL TENSION (LBS.)	1478	1085	891	828	758	706	646	588	531	428				

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	BCB
DRAWN	RFW
DATE	1/24/94

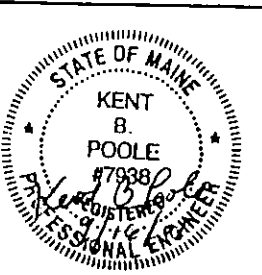
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	BCB
DRAWN	RFW
DATE	2/01/94

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01



STRINGING SAG CHART - FOR MESSENGER ONLY

052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90
100	2	3	4	5	6	7	8
125	3	4	5	6	7	8	9
150	4	5	6	7	8	9	10
200	7	8	9	10	11	12	13
250	10	11	12	13	14	15	16

STRINGING TENSION (LBS.)	3096	2823	2548	2273	2000	1731	1471
--------------------------	------	------	------	------	------	------	------

INITIAL SAG CHART - AT INSTALLATION

3 PHASE 15kv 336.4 AL SPACER CABLE WITH D52 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	30	60	90	120
100	8	14	20	25	28
125	13	20	26	31	34
150	18	26	32	37	40
200	32	40	46	51	54
250	50	56	62	67	70

STRINGING TENSION (LBS.)	3676	3283	2926	2613	2346
--------------------------	------	------	------	------	------

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

3 PHASE 15kv 336.4 AL SPACER CABLE WITH 052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE		32 DEG. 1/2" ICE	
	0	4" WIND	0	4" WIND
100	18	28	17	26
125	28	40	26	38
150	40	52	36	48
200	72	84	67	78
250	112	124	105	116

STRINGING TENSION (LBS.)	6004	4830	3222	2833	2507	2239	2022
--------------------------	------	------	------	------	------	------	------



STRINGING SAG CHART - FOR MESSENGER ONLY

052 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90
125	3	3	3	4	4	5	5
150	4	4	5	5	6	7	8
200	7	7	8	9	10	12	14
250	11	12	13	14	16	19	22
300	15	17	18	21	23	27	31
STRINGING TENSION (LBS.)	3068	2798	2529	2262	2000	1746	1506

INITIAL SAG CHART - AT INSTALLATION

3 PHASE 15KV 336.4 AL SPACER CABLE WITH 052 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

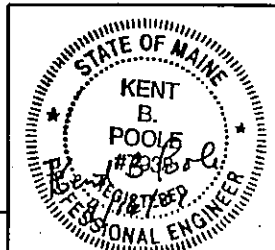
SPAN FEET	0	30	60	90	120
125	12	13	14	15	17
150	17	18	20	22	24
200	30	33	36	39	43
250	47	51	56	61	67
300	67	73	80	88	96
STRINGING TENSION (LBS.)	3950	3598	3279	2996	2749

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

3 PHASE 15KV 336.4 AL SPACER CABLE WITH 052 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND		32 DEG. 1/2" ICE		90		120	
	0	32	0	32	60	90	60	90
125	24	23	13	15	16	18	19	19
150	35	33	19	21	24	26	28	28
200	62	58	34	38	42	46	50	50
250	97	91	54	59	65	71	77	77
300	140	131	77	86	94	103	112	112
FINAL TENSION (LBS.)	6911	5568	3410	3082	2803	2567	2369	2369



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

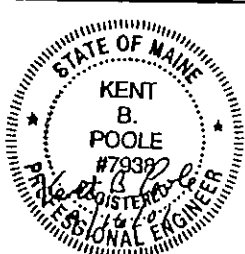
DESIGNED	BCB
DRAWN	RCV
DATE	2/01/94

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	BCB	ORIGINAL
DRAWN	RFW	
DATE	2/01/94	

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH		
DATE	8/24/01		



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

MACRO

DESCRIPTION
3 PHASE 35 KV 336.4 AL SPACER CABLE WITH 052 AWA MESSENGER
150 FOOT RULING SPAN

PAGE
354-41

STRINGING SAG CHART - FOR MESSENGER ONLY

052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90
100		2	2	2	2	2	3
125		3	3	3	3	4	4
150		4	4	4	5	5	6
200		6	7	7	8	9	11
250		10	11	12	13	15	17

STRINGING TENSION (LBS.)	3591	3321	3048	2775	2500	2225	1953
--------------------------	------	------	------	------	------	------	------

INITIAL SAG CHART - AT INSTALLATION

3 PHASE 35 KV 336.4 AL SPACER CABLE WITH 052 AWA MESSENGER
50 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	30	60	90	120
100		9	10	11	13
125		15	16	17	21
150		21	23	25	30
200		37	41	45	53
250		58	64	70	83

STRINGING TENSION (LBS.)	4379	4003	3656	3342	3062
--------------------------	------	------	------	------	------

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

3 PHASE 35 KV 336.4 AL SPACER CABLE WITH 052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4# WIND	32 DEG. 1/2" ICE	0	32	60	90	120
100	19	18	11	12	13	14	15
125	30	28	16	18	20	22	24
150	42	40	24	26	29	32	35
200	76	72	42	47	51	56	61
250	118	112	66	73	80	88	96

FINAL TENSION (LBS.)	6778	5650	3884	3505	3175	2894	2656
----------------------	------	------	------	------	------	------	------

DESCRIPTION
3 PHASE 35 KV 336.4 AL SPACER CABLE WITH OS2 AWA MESSENGER
200 FOOT RULING SPAN

MACRO

STRINGING SAG CHART - FOR MESSENGER ONLY

OS2 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90
125	2	4	7	11	15	19	24
150	3	6	10	15	21	27	34
200	6	13	21	30	40	51	63
250	11	23	37	53	71	91	113
300	18	37	56	81	111	146	186
STRINGING TENSION (LBS.)	3575	3307	3038	2769	2500	2233	1972

INITIAL SAG CHART - AT INSTALLATION

3 PHASE 35 KV 336.4 AL SPACER CABLE WITH OS2 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

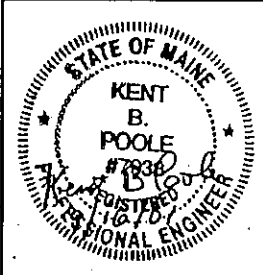
SPAN FEET	D	30	60	90	120
125	13	14	16	17	18
150	19	21	22	24	26
200	34	37	40	43	46
250	54	58	62	67	72
300	77	83	89	96	103
STRINGING TENSION (LBS.)	4752	4415	4104	3820	3563

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

3 PHASE 35 KV 336.4 AL SPACER CABLE WITH OS2 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.		32 DEG.		60		90		120	
	1/2" ICE	4" WIND	1/2" ICE	1/2" ICE	1/2" ICE	1/2" ICE	1/2" ICE	1/2" ICE	1/2" ICE	1/2" ICE
125	26	37	24	35	17	24	18	26	19	21
150	37	66	35	62	22	42	26	46	28	30
200	66	103	62	98	42	66	46	72	49	53
250	103	148	98	140	66	96	72	103	77	83
300	148	200	140	188	96	133	103	141	111	119
FINAL TENSION (LBS.)	7796	6509	4162	3839	3555	3307	3092			



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

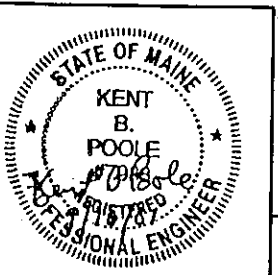
DESIGNED	BCB
DRAWN	RFV
DATE	2/01/94

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	ORIGINAL
DRAWN	8CB
DATE	1/31/94

DESIGNED	REVISED
DRAWN	REVISED
DATE	08/24/01



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

MACRO	DESCRIPTION		PAGE				
	3 PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER 150 FOOT RULING SPAN		354-43				
STRINGING SAG CHART - FOR MESSENGER ONLY							
052 AWA MESSENGER 150 FOOT RULING SPAN							
TEMPERATURE IN DEGREES F CONDUCTOR SAG IN INCHES							
SPAN FEET	0	15	30	45	60	75	90
100	2	2	2	2	3	3	4
125	3	3	3	4	4	5	6
150	4	4	5	5	6	7	8
200	7	7	8	9	10	12	14
250	10	11	13	14	16	19	22
STRINGING TENSION (LBS.)	3096	2823	2548	2273	2000	1731	1471
INITIAL SAG CHART - AT INSTALLATION							
3 PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER 150 FOOT RULING SPAN							
TEMPERATURE IN DEGREES F CONDUCTOR SAG IN INCHES							
SPAN FEET	0	30	60	90	120		
100	5	6	7	8	10		
125	8	9	11	13	15		
150	12	13	16	19	22		
200	20	24	28	33	39		
250	32	37	44	52	61		
STRINGING TENSION (LBS.)	3322	2856	2426	2049	1739		
FINAL SAG CHART - FOR DESIGN & MAINTENANCE							
3 PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER 150 FOOT RULING SPAN							
TEMPERATURE IN DEGREES F CONDUCTOR SAG IN INCHES							
SPAN FEET	0 DEG. 1/2" ICE 4* WIND	32 DEG. 1/2" ICE	0	30	60	90	120
100	16	15	6	7	9	10	12
125	25	23	9	11	14	16	19
150	36	33	13	16	20	23	27
200	64	58	24	29	35	41	48
250	101	91	37	45	54	65	75
FINAL TENSION (LBS.)	5465	4199	2847	2362	1962	1651	1419

STRINGING SAG CHART - FOR MESSENGER ONLY

052 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90
125	3	3	3	4	4	5	5
150	4	4	5	5	6	7	8
200	7	7	8	9	10	12	14
250	11	12	13	14	16	19	22
300	15	17	18	21	23	27	31

STRINGING TENSION (LBS.)	3068	2798	2529	2262	2000	1746	1506
--------------------------	------	------	------	------	------	------	------

INITIAL SAG CHART - AT INSTALLATION

3 PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	30	60	90	120
125	8	9	10	12	13
150	11	13	15	17	19
200	20	23	26	30	34
250	31	35	41	47	53
300	45	51	58	67	76

STRINGING TENSION (LBS.)	3438	3012	2626	2290	2009
--------------------------	------	------	------	------	------

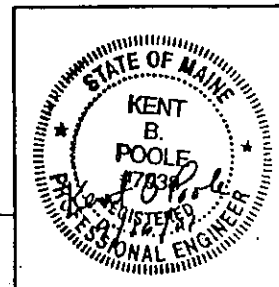
FINAL SAG CHART - FOR DESIGN & MAINTENANCE

3 PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND		32 DEG. 1/2" ICE		90	120
	0	32	60	90		
125	22	20	11	14	16	16
150	32	29	16	18	21	23
200	56	51	28	32	37	42
250	88	80	44	50	58	65
300	127	115	63	73	83	93

FINAL TENSION (LBS.)	6246	4792	2852	2445	2113	1851	1646
----------------------	------	------	------	------	------	------	------



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

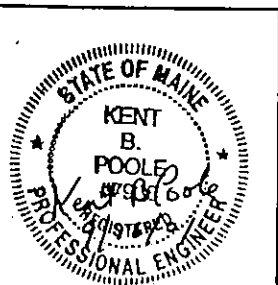
DESIGNED	BCB
DRAWN	RFV
DATE	1/31/94

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL
BE REVISED ON THE
CAOO SYSTEM ONLY

DESIGNED	BCB	ORIGINAL
DRAWN	RFW	
DATE	1/31/94	

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH		
DATE	B/24/01		



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

STRINGING SAG CHART - FOR MESSENGER ONLY

052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90
100	1	2	2	2	2	2	3
125	2	2	3	3	3	4	4
150	3	3	4	4	5	5	6
200	6	6	7	7	8	9	11
250	9	10	11	12	13	15	17
STRINGING TENSION (LBS.)	3591	3321	3048	2775	2500	2225	1953

INITIAL SAG CHART - AT INSTALLATION

3 PHASE 35 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	30	60	90	120
100	6	7	8	9	11
125	10	11	13	15	16
150	14	16	18	21	24
200	26	29	33	37	42
250	40	45	51	58	66
STRINGING TENSION (LBS.)	3956	3516	3105	2734	2409

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

3 PHASE 35 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.		32 DEG.		60		90		120	
	1/2" ICE	4# WIND	1/2" ICE	4# WIND	1/2" ICE	4# WIND	1/2" ICE	4# WIND	1/2" ICE	4# WIND
100	17	106	16	98	9	61	11	70	13	79
125	27	106	25	98	13	61	18	70	20	79
150	38	106	35	98	19	61	25	70	29	79
200	68	106	63	98	34	61	45	70	51	79
250	106	106	98	98	53	61	70	70	79	79
STRINGING TENSION (LBS.)	6196	6196	4985	4985	3437	3437	2975	2975	2580	2580

STRINGING TENSION (LBS.) 6196 4985 3437 2975 2580 2254 1953

STRINGING SAG CHART - FOR MESSENGER ONLY

052 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90
125	2	2	3	3	3	4	4
150	3	4	4	4	5	5	6
200	6	6	7	7	8	9	11
250	9	10	11	12	13	14	17
300	13	14	15	17	19	21	24
STRINGING TENSION (LBS.)	3575	3307	3038	2769	2500	2233	1972

INITIAL SAG CHART - AT INSTALLATION

3 PHASE 35 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
200 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	30	60	90	120
125	10	11	12	13	14
150	14	15	17	19	21
200	24	27	30	33	37
250	38	42	47	52	57
300	55	61	67	75	83
STRINGING TENSION (LBS.)	4157	3757	3388	3054	2761

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

3 PHASE 35 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
200 FOOT RULING SPAN

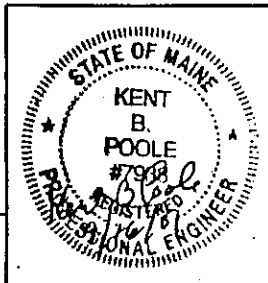
TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.	32 DEG.	0	32	60	90	120
	1/2" ICE	1/2" ICE					
	4" WIND						
125	23	22	11	13	14	16	17
150	34	31	16	18	20	23	25
200	60	55	29	32	36	40	44
250	93	86	45	50	57	63	69
300	134	124	65	73	82	90	100
FINAL TENSION (LBS.)	7077	5690	3521	3131	2799	2521	2291

DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	BCB
DRAWN	RFV
DATE	1/31/94

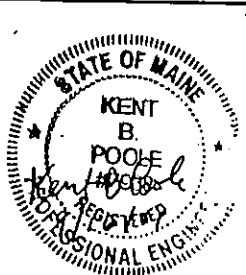
THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

DESIGNED	BCB	ORIGINAL
DRAWN	RFV	
DATE	2/16/94	

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH		
DATE	8/24/01		



STRINGING SAG CHART - FOR MESSENGER ONLY

052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90
STRINGING TENSION (LBS.)	3096	2823	2548	2273	2000	1731	1471

INITIAL SAG CHART - AT INSTALLATION

SINGLE PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	30	60	90	120
STRINGING TENSION (LBS.)	3152	2629	2123	1661	1283

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

SINGLE PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.	32 DEG.	0	32	60	90	120
	1/2" ICE 4" WIND	1/2" ICE					
STRINGING TENSION (LBS.)	4116	3164	2935	2328	1783	1346	1041



DESCRIPTION
SINGLE PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
250 FOOT RULING SPAN

MACRO

STRINGING SAG CHART - FOR MESSENGER ONLY

052 AWA MESSENGER
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90
150	4	4	5	5	6	7	8
200	7	8	8	9	10	12	13
250	11	12	13	14	16	18	21
300	15	17	19	21	23	26	30
350	21	23	25	28	32	36	41
STRINGING TENSION (LBS.)	3032	2768	2507	2249	2000	1763	1543

STRINGING SAG CHART - AT INSTALLATION

SINGLE PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

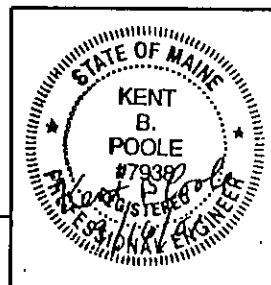
SPAN FEET	0	30	60	90	120
150	7	8	9	11	13
200	12	14	16	20	23
250	18	21	25	30	36
300	26	31	37	44	52
350	36	42	50	60	71
STRINGING TENSION (LBS.)	3180	2708	2273	1896	1592

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

SINGLE PHASE 15 KV 1/0 AAAC SPACER CABLE WITH 052 AWA MESSENGER
250 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG.		32 DEG.		1/2" ICE		4" WIND	
	0	30	60	90	120	150	180	
150	20	18	16	13	11	9	7	
200	35	32	28	24	20	16	13	
250	55	50	44	37	31	25	21	
300	79	72	63	53	44	36	30	
350	107	98	85	72	60	49	40	
FINAL TENSION (LBS.)	4946	3791	2801	2298	1882	1562	1327	



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

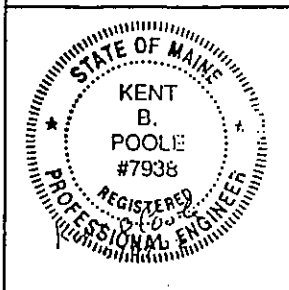
DESIGNED	BCB
DRAWN	RFW
DATE	2/17/94

THIS DRAWING SHALL BE REVISION ON THE CAD SYSTEM ONLY

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	BCB
DRAWN	RFW
DATE	2/18/94

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH	REC	
DATE	8/24/01	01/31/02	



INITIAL SAG CHART - AT INSTALLATION

#1/0 ALUMINUM TRIPLEX SECONDARY CABLE WITH #1/0 AAAC MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
75	2	2	3	3	3	4	4	6
100	4	4	5	5	6	7	8	10
125	6	7	8	8	9	11	12	15
150	9	10	11	12	14	15	17	22
175	12	13	15	16	18	21	24	30
200	16	17	19	22	24	27	31	39
225	20	22	24	27	31	34	39	50
250	25	27	30	34	38	43	48	62

STRINGING
TENSION (LBS.)

1507	1373	1242	1116	995	882	779	609
------	------	------	------	-----	-----	-----	-----

NOTE: This chart is for sagging pole to pole spans only. Chart 354-52 shall be used for sagging service drops

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

#1/0 ALUMINUM TRIPLEX SECONDARY CABLE WITH #1/0 AAAC MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 OEG.	32 OEG.	0	15	32	45	60	75	90	120
75	8	7	2	3	3	4	4	5	6	7
100	14	13	4	5	6	7	8	9	10	13
125	21	21	7	8	9	10	12	14	16	20
150	31	30	10	11	13	15	17	20	23	28
175	42	40	14	15	18	20	23	27	31	39
200	55	53	18	20	23	26	30	35	40	51
225	70	67	22	25	30	33	38	44	51	64
250	86	82	28	31	36	41	47	55	63	79

FINAL
TENSION (LBS.)

2000	1562	1351	1196	1029	912	790	686	600	476
------	------	------	------	------	-----	-----	-----	-----	-----

MACRO

DESCRIPTION
#1/0 ALUMINUM TRIPLEX SECONDARY CABLE
150 FOOT RULING SPAN

PAGE
354-49



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

DESCRIPTION
#2 ALUMINUM TRIPLEX SECONDARY CABLE
150 FOOT RULING SPAN

MACRO

STRINGING SAG CHART - AT INSTALLATION
#2 ALUMINUM TRIPLEX SECONDARY CABLE WITH #4 ACSR MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0	15	30	45	60	75	90	120
75	3	3	3	3	3	4	4	5
100	5	5	5	6	6	7	7	8
125	7	8	8	9	9	10	11	13
150	10	11	12	13	14	15	16	19
175	14	15	16	17	19	20	22	25
200	19	20	21	22	24	26	28	33
STRINGING TENSION (LBS.)	765	720	674	630	586	544	503	426

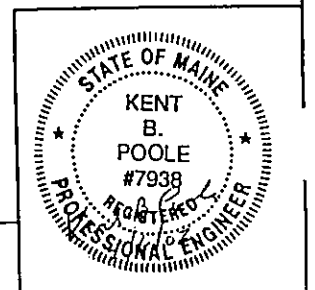
NOTE: This chart is for sagging pole to pole spans only. Chart 354-53 shall be used for sagging service drops.

FINAL SAG CHART - FOR DESIGN & MAINTENANCE

#2 ALUMINUM TRIPLEX SECONDARY CABLE WITH #4 ACSR MESSENGER
150 FOOT RULING SPAN

TEMPERATURE IN DEGREES F
CONDUCTOR SAG IN INCHES

SPAN FEET	0 DEG. ICE	32 DEG. ICE	0	15	32	45	60	75	90	120
75	13	12	5	5	6	6	7	7	8	9
100	23	21	8	9	10	11	12	13	14	17
125	36	32	13	14	16	17	19	21	22	26
150	51	47	19	21	23	25	27	30	32	37
175	70	64	25	28	31	34	37	41	44	51
200	91	83	33	37	41	45	49	53	58	66
FINAL TENSION (LBS.)	1010	770	426	386	346	318	291	267	247	215



DESIGNED	CS	CS
DRAWN	CMH	REC
DATE	8/24/01	01/31/02

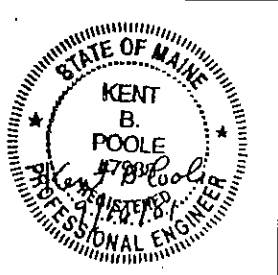
DESIGNED	
DRAWN	
DATE	

RE REVISION UN THE
CADD SYSTEM ONLY

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	BCB	ORIGINAL
DRAWN	RFW	
DATE	2/24/94	

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH		
DATE	8/24/01		



SAG CHART
 336, 400 CM ALUMINUM TRIPLEX SERVICE DROP CABLE
 WITH #4/0 AAAC MESSENGER
 TEMPERATURE IN DEGREES F
 CONDUCTOR SAGS IN INCHES

DESIGN

SPAN FEET 0 DEG. 32 DEG. 120
 1/2" ICE 1/2" ICE
 4" WIND

INSTALLATION

0 15 30 45 60 75 90 120

50	15	16	16	17	18	19	20
75	34	35	36	36	37	38	40
100	62	62	63	64	65	66	67
125	98	99	100	100	101	102	104

TENSION (LBS.)

50	271	257	245	234	225	217	202
75	266	260	254	249	244	239	230
100	265	261	258	255	252	249	244
125	264	262	260	258	256	254	250

MACRO

DESCRIPTION
 336, 400 CM ALUMINUM TRIPLEX SERVICE DROP CABLE

PAGE
 354-51



CENTRAL MAINE POWER CO.

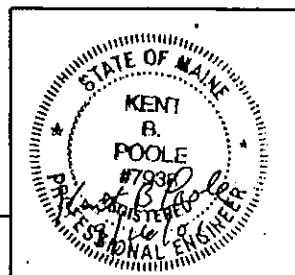
DISTRIBUTION CONSTRUCTION STANDARDS

SAG CHART

#1/0 ALUMINUM TRIPLEX SERVICE DROP CABLE
WITH #1/0 AAAC MESSENGER

TEMPERATURE IN DEGREES F
CONDUCTOR SAGS IN INCHES

SPAN FEET	0 DEG. 1/2" ICE 4" WIND		32 DEG. 1/2" ICE		0		15		30		45		60		75		90		120	
	DESIGN				INSTALLATION				TENSION (LBS.)											
50	10	11	15	5	6	8	9	10	11	12	14	150	170	199	241	305	103	700	472	108
75	22	23	28	17	18	20	21	22	24	25	27	152	161	171	184	200	123	700	495	127
100	40	41	45	34	36	37	38	40	41	42	45	152	157	163	169	176	134	700	506	136
125	62	64	68	57	58	60	61	62	64	65	67	166	166	159	163	166	140	700	512	142



DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	BCB
DRAWN	RFW
DATE	2/24/94

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

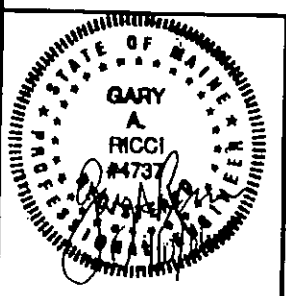
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

DESIGNED	BCB
DRAWN	RFW
DATE	2/24/94



EMERY

DESIGNED	CS	REVISED	REVISED
DRAWN	CMH	CS	
DATE	8/24/01	REC	
	01/30/06		



MACRO

DESCRIPTION
#2 ALUMINUM TRIPLEX SERVICE DROP CABLE

PAGE
354-53

SAG CHART
#2 ALUMINUM TRIPLEX SERVICE DROP CABLE
WITH #4 AAAC NEUTRAL

SPAN FEET	DESIGN		DEGREES (FAHRENHEIT)																						
	0 DEG. 1/2' ICE 4* WIND	32 DEG. 1/2' ICE	120	0	15	30	45	60	75	90	120	INSTALLATION													
			SAG (INCHES)																						
			TENSION (LBS.)																						
75	18	16	16	4	5	5	6	7	8	10	12	12	19	21	22	26	26	38	40	43	43	58	60	61	65
100	31	30	30	12	13	15	17	19	21	22	26	26	36	38	40	43	43	58	60	61	65	65	65	65	65
125	49	47	47	28	30	32	34	36	38	40	43	43	58	60	61	65	65	65	65	65	65	65	65	65	65
150	71	69	69	50	52	54	56	58	60	61	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
75	700	512	112	433	383	336	292	252	218	188	145	145	172	157	145	126	126	133	127	117	117	126	122	119	113
100	700	501	109	271	240	213	191	172	157	145	126	126	140	133	127	117	117	133	127	117	117	126	122	119	113
125	700	495	107	180	167	157	148	140	133	127	117	117	140	133	127	117	117	133	127	117	117	126	122	119	113
150	700	490	106	146	140	135	130	126	122	119	113	113	146	135	126	119	113	135	126	119	113	126	122	119	113



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS







THIS SHEET LEFT BLANK INTENTIONALLY

PAGE 360	DESCRIPTION URD AND UG SYSTEMS	MACRO
-------------	-----------------------------------	-------

GENERAL

It shall be the responsibility of the Distribution Field Engineer to design the configuration of all URD and UG systems for all single and three phase installations.

- (1) URD cables shall be installed in as straight and direct a line as practical.
- (2) URD cables shall be routed so as to allow safe access for construction, inspection and maintenance.
- (3) URD cables shall be located where the cable will be subjected to the least amount of disturbances.
- (4) Supply cables shall not be installed directly under building or storage tank locations.
- (5) Supply cables shall not be installed within 5 feet of a swimming pool or its auxiliary equipment.
- (6) The open point in the loop feed system shall normally be in the cable compartment of a pad-mounted transformer, located there so to divide customers or transformers of the loop so that all cable is energized and customer exposure to outages are minimized.
- (7) Loop feed system using two different phases should be avoided when load conditions permit. If a loop feed system is constructed with two different phases, the open point shall be the same as above and a "DON'T TIE ALIVE" sign shall be placed in the cable compartment where the open point exists.
- (8) Supply cables crossing under railroad beds shall be no less than 60" below the top of the rail.
- (9) Pad-mounted equipment, pedestals, and other above ground enclosures should be located not less than 1.2m (4 ft) from fire hydrants.

DSC NETWORK URS 1015
CADD SYSTEM ONLY

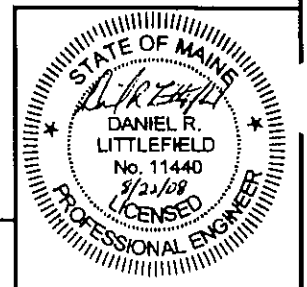
DRAWN DATE	GRC 05/02/90
---------------	-----------------

ENGR

FAST

2 Split to two pages

108/21/08



(10) Minimum clearances to buildings and other obstructions (including trees, shrubs, and fences) shall be 3 feet from the rear, 5 feet from the sides, and 10 feet from the front of the transformer pad. There shall be no openings in the building wall in back of, beside, or over the transformer, unless the transformer is a minimum of 10 feet from the building. Side clearances from doors or windows shall not be less than 10 feet.

(11) Padmount transformer locations shall be graded for proper drainage and be readily accessible by truck. They are to be located far enough away from the building overhang so that they will not be subject to damage by falling ice and snow. Where danger of plow or traffic damage exists, barriers consisting of concrete filled 4 inch IPS steel post or full length treated 6 X 6 inch timber posts set 4 feet deep must be provided for protection. The protective posts shall be located so as not to interfere or restrict access to the transformer cabinet.

(12) When installing inner duct into approved CMP duct space, as many inner ducts as possible must be installed. (Min. of 1 1/4" inner duct)

(13) All fiber optics installed into a duct system must be racked to the wall when run through a manhole. Any slack fiber must be neatly stored and racked so not to interfere with entry or exit of the manhole.

(14) On single or three phase primary, secondary and service URD risers that are attached directly to the pole, schedule 80 PVC, rigid steel or steel IMC may be used. For three phase risers attached directly to pole, see page 361-2A note 6. Single phase and three phase risers using standoff brackets shall be installed as described in notes on Page 361-3A.

NO.	REVISION	DATE	CHK.



DESIGNED	CS
DRAWN	REC
DATE	08/22/08
ORIGINAL	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

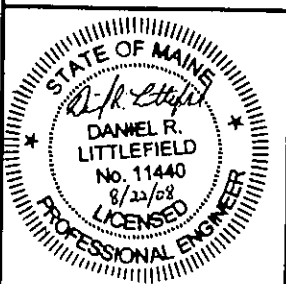




TABLE 1: Conduit Sizes for Jacketed Cable
Minimum size required in inches.

Cable Type	Cable Size	Number of Conductors				
		1	2	3	4	
15KV	URO	#2 Stranded ①	2 1/2'	3'	4'	5'
		4/0 XLP	2 1/2'	4'	5'	5'
	Power	500 KCM XLP	3'	5'	5'	6'
		750 KCM XLP	3'	5'	6'	6'
35KV	URO	1/0 XLP	2 1/2'	4'	5'	5'
		4/0 XLP	3'	5'	6'	6'
	Power	500 KCM XLP	3'	5'	*	*

Notes:

- ① On any straight runs (no bends including no bend at the base of the pole) less than 200 ft - 2 inch conduit may be substituted for 2 1/2 inch conduit.
- * Contact local CMP Distribution Engineer

TABLE 2: Minimum wire sizes for connections between system neutral and urd cable neutral

CABLE SIZE	POLE NEUTRAL CU
#2	C6UDCU4TWAS
1/0	C6UDCU2TWAS
4/0	C6UDCU2/OTWAS
Larger Than 4/0	C6UDCU4/OTWAS

Notes:

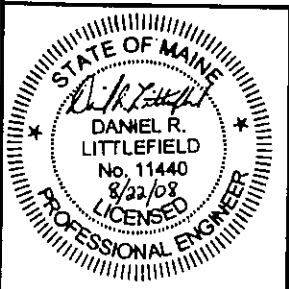
1. Minimum clearance between top of pin terminal and primary conductor shall be 16' for 7.2KV and 21' for 19.9KV to allow grounding of cable
2. If all steel conduit, insulated ground bushing is required.
3. All cutouts on riser pole feeding urd cables shall be normally closed

REVISED	DATE
1 Moved to opposite page	08/18/08



DESIGNED	REDRAWN
DRAWN	GRC
DATE	12/03/93

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



1. Seal top of conduit with polyurethane sealer. Top of conduit must extend 4' above the neutral. If all steel, top of conduit must have an insulated grounding bushing.

2. If top section of riser is less than 5 feet in length, it must be supported with at least one steel U clip with 5/16th inch holes. If top section of riser is PVC and greater than 5 feet in length, it must be supported with no less than two steel U clips with 5/16th inch holes.

3. Coupling of same material as upper conduit is not required if using conduit with belled end installed down over lower conduit.

4. If steel conduit, a conduit ground connector made of either copper alloy or galvanized steel material of suitable design shall be used. Install pole ground if one doesn't exist.

5. Two hole steel U clips with 5/16" holes are required at top and middle of each section of PVC conduit that is over 60 inches in length. If the riser is all steel, two hole U clips with 5/16th inch holes are required at the bottom and top of first section and at the top of each section, there after. The steel U clips shall be secured to the pole with 5/16th X 3 inch lag screws.

Bottom Section: (2) clips if steel conduit,
(3) clips if schedule 80 pvc conduit

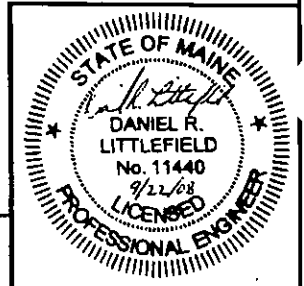
Middle Section: (1) clip if steel conduit,
(2) clips if pvc conduit

Top Section: (1) clip if steel conduit,
(1) clip if pvc conduit less than 5ft.,
(2) clips if pvc conduit greater than 5ft.

6. Rigid steel, steel IMC, Schedule 80 PVC, or Schedule 40 PVC rated for outdoor use may be used on riser. However first section of riser shall be rigid steel or schedule 80 PVC.

7. Use threaded/non-threaded coupling or insulated bushing at the bottom of riser.

8. Standoff brackets will be required where future customers are likely to be served from the same pole.



BE REVISED ON THE
CADD SYSTEM ONLY

REVISIONS
DRAWN REC
DATE 08/21/08

Eng

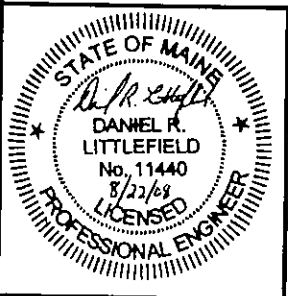
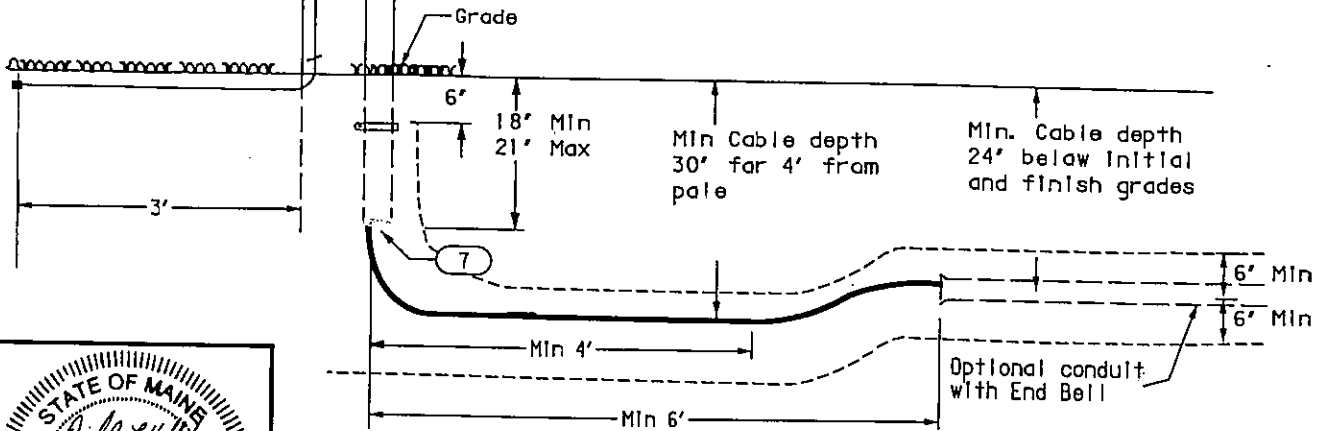
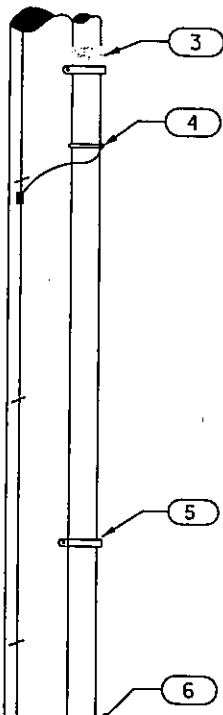
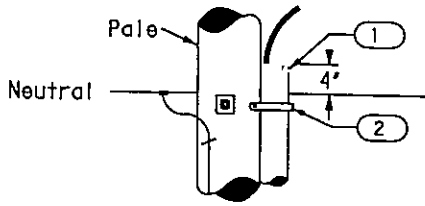
ast

NO.	REVISION	DATE	BY
1	Changed text & moved to second page	08/18/08	



DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	GRG
	6/6/95

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



1. Seal top of conduit with polyurethane sealer. Top of conduit must extend 4" above the neutral. If all steel, top of conduit must have on insulated grounding bushing.

2. If top section of riser is less than 5 feet in length, it must be supported with at least one steel U clip with 5/16th inch holes. If top section of riser is PVC and greater than 5 feet in length, it must be supported with no less than two steel U clips with 5/16th inch holes.

3. Coupling of same material as upper conduit is not required if using conduit with belled end installed down over lower conduit.

4. If steel conduit, a conduit ground connector made of either copper alloy or galvanized steel material of suitable design shall be used. Install pole ground if one doesn't exist.

5. Two hole steel U clips with 5/16" holes are required at top and middle of each section of PVC conduit that is over 60 inches in length. If the riser is all steel, two hole U clips with 5/16th inch holes are required at the bottom and top of first section and at the top of each section, there after. The steel U clips shall be secured to the pole with 5/16th X 3 inch lag screws.

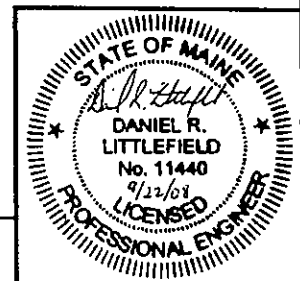
Bottom Section: (2) clips If steel conduit,
(3) clips If schedule 80 pvc conduit
Middle Section: (1) clip If steel conduit,
(2) clips If pvc conduit

Top Section: (1) clip If steel conduit,
(1) clip If pvc conduit less than 5ft.,
(2) clips If pvc conduit greater than 5ft.

6. Rigid steel, steel IMC, Schedule 80 PVC, or Schedule 40 PVC rated for outdoor use may be used on riser. However first section of riser shall be rigid steel or schedule 80 PVC. All three phase primary risers shall be rigid steel for the first section.

7. Use threaded/non-threaded coupling or insulated bushing at the bottom of riser.

8. Standoff brackets will be required where future customers are likely to be served from the same pole.



BE REVISED ON THE
CADD SYSTEM ONLY

DATE	REVISION
08/21/08	REC

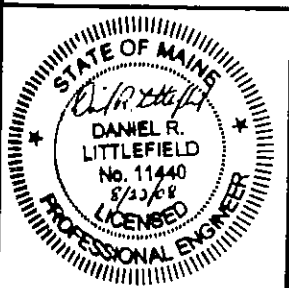
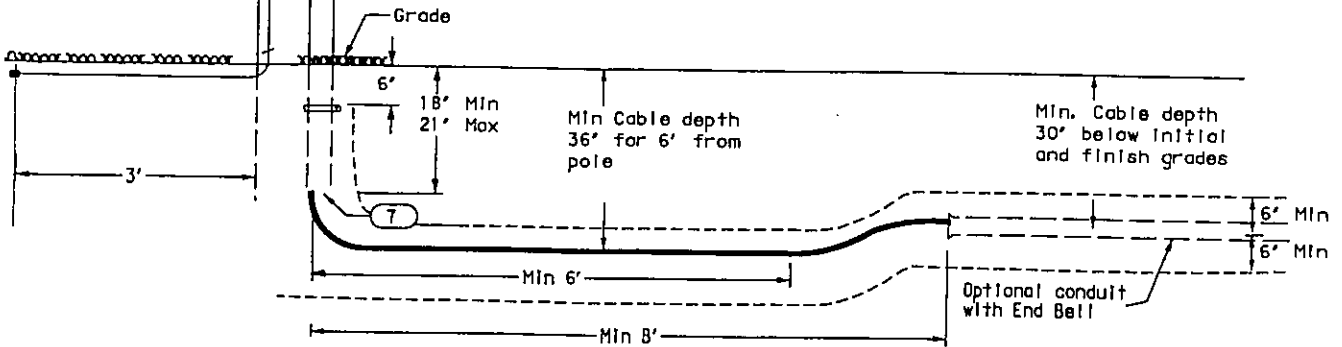
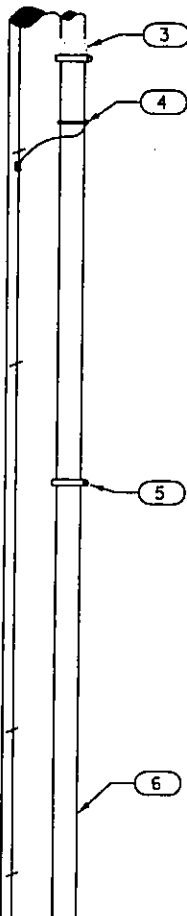
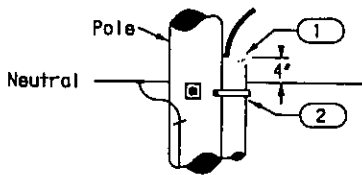
Eng
Fast

REV.	REVISION	DATE	CR.
1	Note 3, all 3 pri risers must be steel let asset	06/20/07	
2	Rewrote notes, and moved to second page	08/18/08	



DESIGNED	REDRAWN	DATE
DRAWN	GRG	1/3/96

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



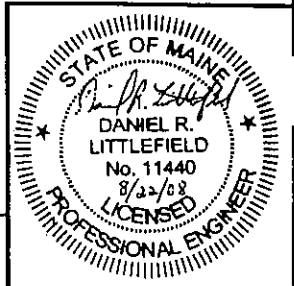
NOTES

1. Standoff brackets are required when more than one conduit per utility is to be installed on a pole.
2. All three phase primary risers, whether stand off brackets are used or not, shall be rigid steel for the first section.
3. On single phase primary, secondary and service URD risers using stand off brackets, rigid steel or schedule 80 may be used.
4. Where rigid steel or schedule 80 PVC is used for the riser, one bracket shall be used to support each section of conduit up to 10 feet in length. Each bracket is to be placed just below the riser conduit coupling.
5. Conduit sections for single phase or three phase risers using stand off brackets shall be rigid steel or schedule 80 PVC conduit only (See note #2), with the exception that schedule 40 PVC sunlight resistant conduit may be used for the top section of the riser (not longer than 10'). If top section is longer than 24" it must be supported with a minimum of one stand off bracket. If top section is schedule 40 PVC and longer than 72" it must be supported by no fewer than two stand off brackets.
6. Where PVC is used for the riser, each stand off bracket supporting the PVC shall be grounded. Where steel is used for the riser one stand off bracket supporting the steel is required to be grounded.
7. Sweeps, when used, are required to be steel.
8. If riser is all steel conduit, install insulated grounding bushing at top of riser.
9. Lowest bracket shall be a minimum of 8 feet above finished grade.
10. Alternate location for communication cable if run in metal conduit or schedule 80.
11. Communication cable may be attached directly to pole adjacent to brackets.

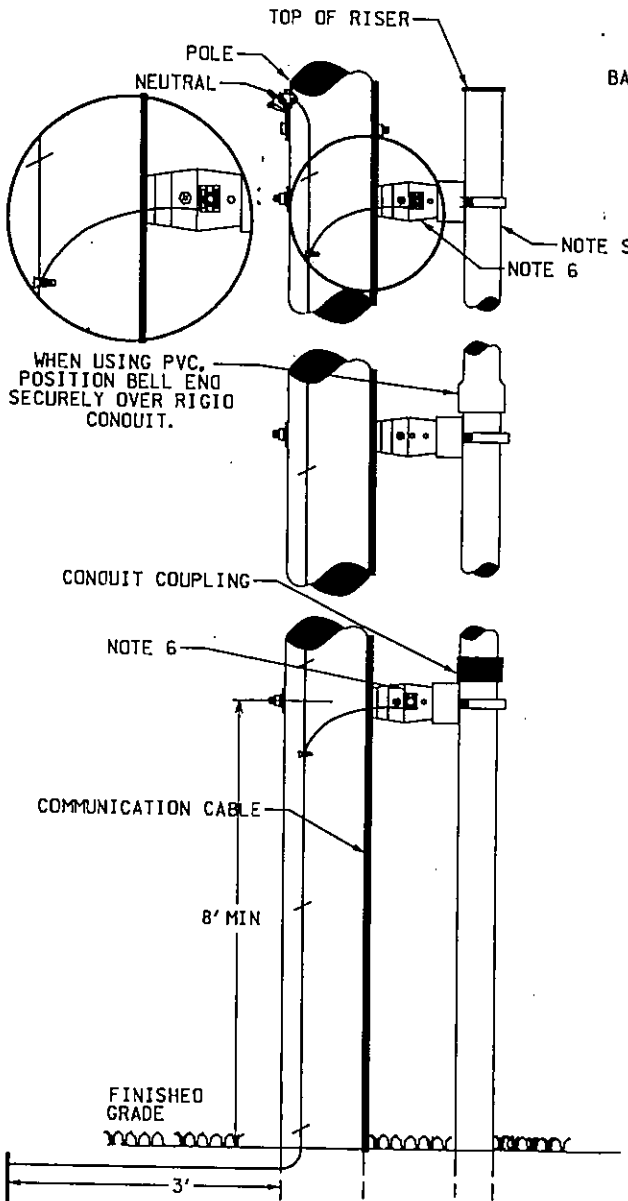
DATE REVISION
CADD SYSTEM ONLY

DRAWN DATE REC
08/22/08

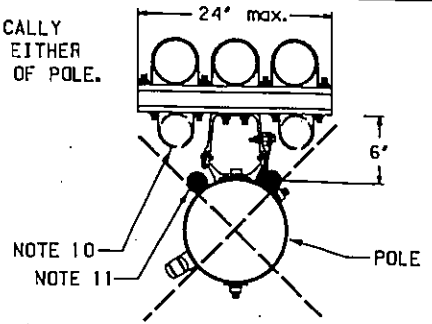
ENGR EAST



NO.	REVISION	DATE	CK.
1	Corrected spelling in text	05/16/07	BB
2	Moved notes to separate page	08/19/08	



RISER TYPICALLY LOCATED ON EITHER BACK QUARTER OF POLE.

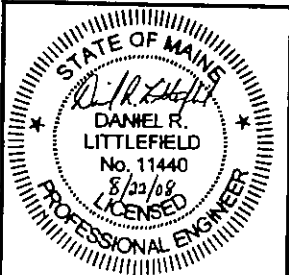


ORIGINAL	DESIGNED	DRAWN	DATE
REDRAWN	GRG	3/23/94	

MATERIALS:

Stand Off Brackets	Aluma-Farm 6CSO-12 6CSO-24	Hubble C6-CSO-12 C6-CSO-24	Ceran (Porcelain Products) 8610
Channel	Channel Included	Channel Included	Super strut A-1200-HS B-Line B-22
Conduit Strap Kit	Aluma-Farm 2 STK-2 2.5 STK-2.5 3 STK-3 3.5 STK-3.5 4 STK-4 5 STK-5 6 STK-6	Hubble CSTK-2 CSTK-2.5 CSTK-3 CSTK-3.5 CSTK-4 CSTK-5 CSTK-6	Super Strut 702-2-STR 702-2 1/2 702-3 702-3 1/2 702-4 702-5 702-6

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

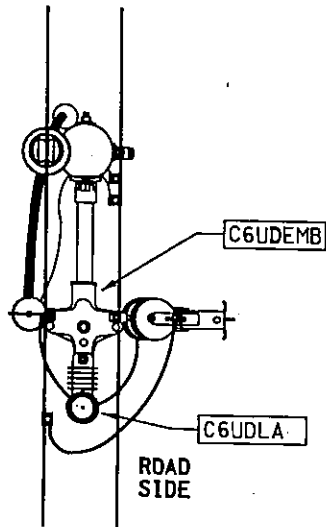
Page 361-4A

1 PH RISER FROM POLETOP INST

Macro: C6MU1PRPT

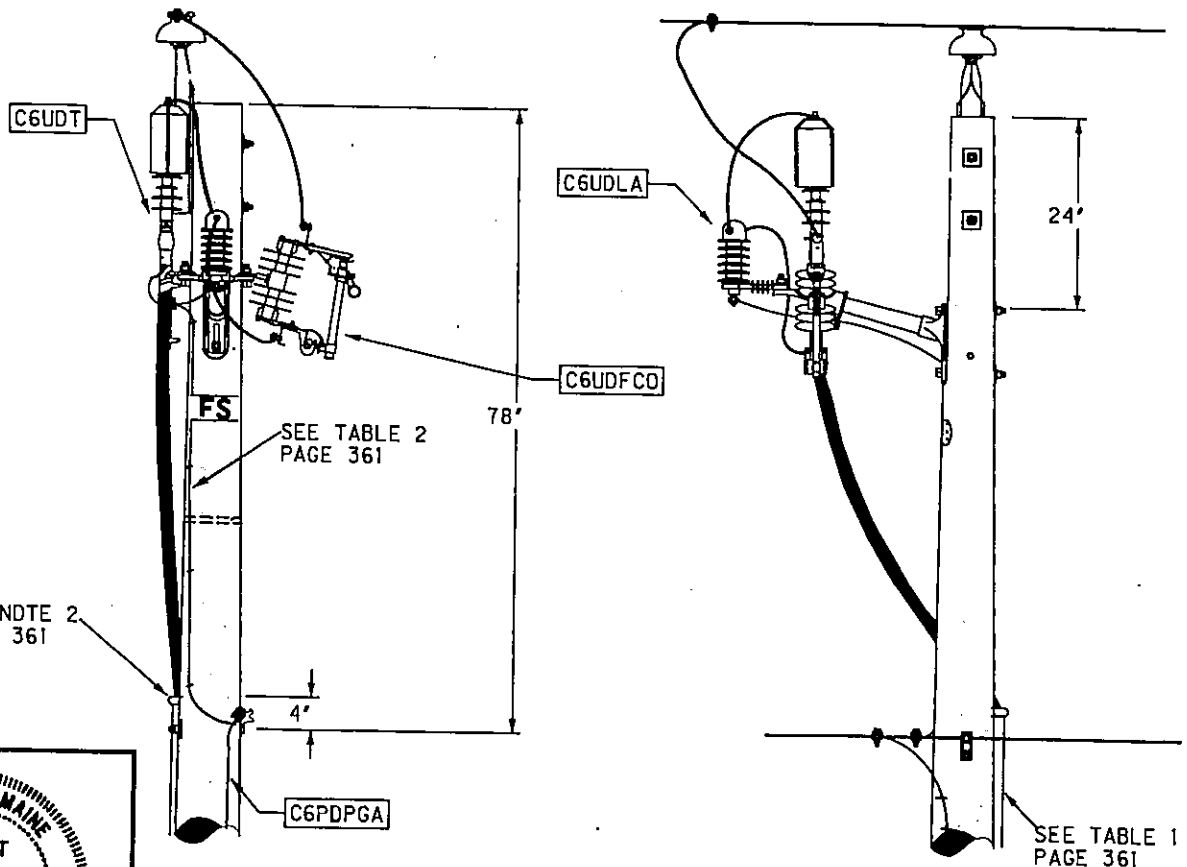
CU Number	Quantity - CU/Mail	Description	Material ID
C6CDPC	3	CONNECTOR,PRIMARY	
		1 CONNECTORS	600011XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		8 MOULDING PLAS 1/2 IN GR	6000251680
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		6 STAPLE F/ 1/2IN MOLDING	6000274410
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6UDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6UDFCO	1	UNDERGROUND FUSED CUTOUT (GENERIC)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6UDIOC	1	INST OF 1C CABLE IN CONDUIT PER 50FT	
C6UDIOR2	1	INST CONDUIT RISER ON POLE 2-3 IN	
C6UDLA	1	UNDERGROUND LIGHTNING ARREST (GENERIC)	
		1 WILDLIFE PROTECTOR	60003128XX
		1 LIGHTNING ARRESTOR GENERIC	6000490XXX
C6UDSEAL	1	POLYURETHANE SEALANT (PURCHASE LOCALLY)	
		1 POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	1	TERMINATOR GENERIC (SELECT FROM CUCT)	
		1 TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	6	TAP WIRE, GENERIC	
		1 TAP WIRE (SELECT FROM CUCT)	600020XXXX

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	08/20/04	06/22/06



ORIGINAL	REVIS
REDRAWN	CS
DRAWN	REC
DATE	07/28/93

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



SEE NDTE 2
PAGE 361

SEE TABLE 2
PAGE 361

SEE TABLE 1
PAGE 361

STATE OF MAINE
BRENT
C.
BROOKS
#8209
REGISTERED
PROFESSIONAL ENGINEER

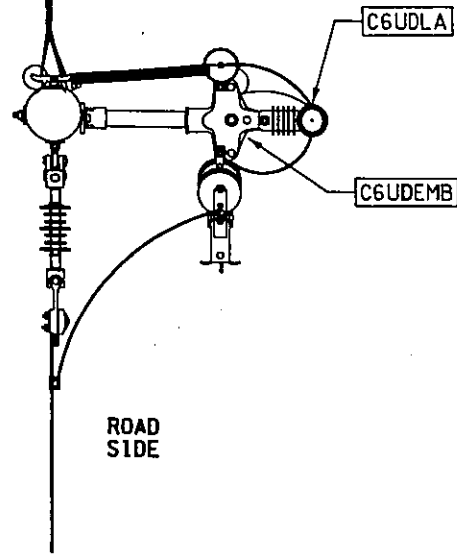
11/13/2006



Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Matl	Description	Material ID
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRO ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRO WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6UDEMB	1	EQUIP MOUNTING BRACKET 18IN	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
	1	BKT EQUIP MTG 18 IN	6000620140
C6UDFCO	1	UNDERGROUND FUSED CUTOUT (GENERIC)	
	1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6UDIQC	1	INST OF 1C CABLE IN CONDUIT PER 50FT	
C6UDIOR2	1	INST CONDUIT RISER ON POLE 2-3 IN	
C6UDLA	1	UNDERGROUND LIGHTNING ARREST (GENERIC)	
	1	WILDLIFE PROTECTOR	60003128XX
	1	LIGHTNING ARRESTOR GENERIC	6000490XXX
C6UDSEAL	1	POLYURETHANE SEALANT (PURCHASE LOCALLY)	
	1	POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	1	TERMINATOR GENERIC (SELECT FROM CUCT)	
	1	TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	6	TAP WIRE, GENERIC	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX

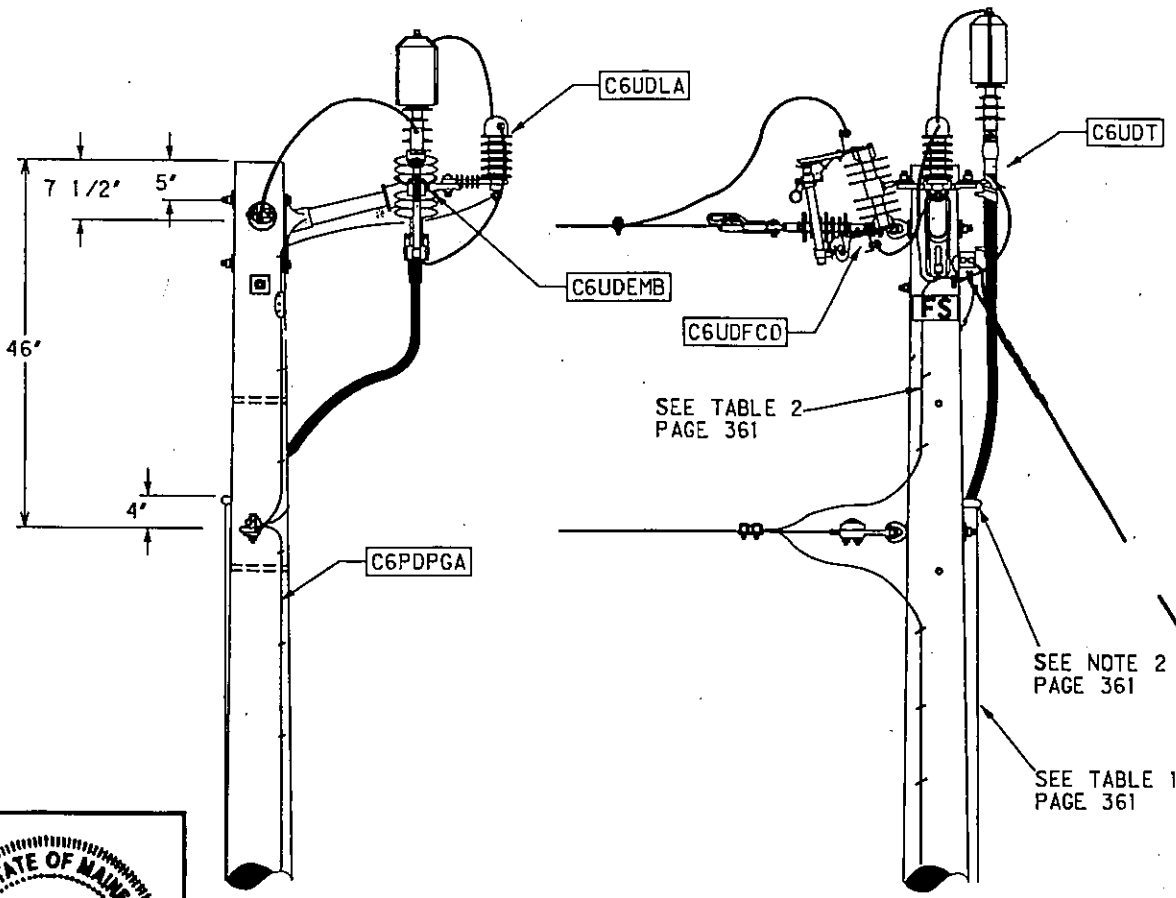
DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	08/23/01	08/13/04	06/22/06



FIELD SIDE
ROAD SIDE

EnergyEast

DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	DATE
	8/26/93



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

STATE OF MAINE
BRENT
C. BROOKS
#8209
REGISTERED
PROFESSIONAL ENGINEER

Brent C. Brooks
11/13/2006



Distribution Construction Standards - CMP Co.

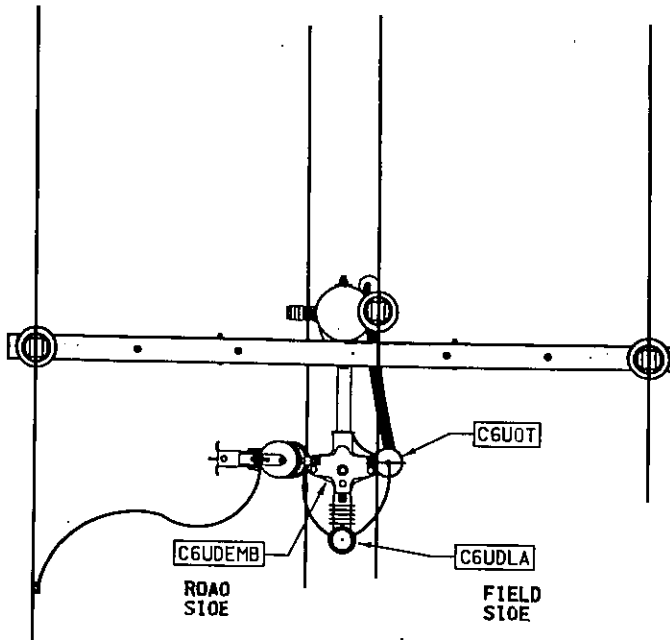
Page 361-6A

1 PH RISER FROM SX STRUCTURE

Macro: C6MUIPRSX

CU Number	Quantity - CU/Mat	Description	Material ID
C6PDPGA	1	POLE GROUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		8 MOULDING PLAS 1/2 IN GR	6000251680
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		6 STAPLE F/ 1/2IN MOLDING	6000274410
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6UDEMB	1	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6UDFCO	1	UNDERGROUND FUSED CUTOUT (GENERIC)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6UDIOC	1	INST OF 1C CABLE IN CONDUIT PER 50FT	
C6UDIOR2	1	INST CONDUIT RISER ON POLE 2-3 IN	
C6UDLA	1	UNDERGROUND LIGHTNING ARREST (GENERIC)	
		1 WILDLIFE PROTECTOR	60003128XX
		1 LIGHTNING ARRESTOR GENERIC	6000490XXX
C6UDSEAL	1	POLYURETHANE SEALANT:(PURCHASE LOCALLY)	
		1 POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	1	TERMINATOR GENERIC (SELECT FROM CUCT)	
		1 TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	6	TAP WIRE, GENERIC	
		1 TAP WIRE (SELECT FROM CUCT)	600020XXXX

DESIGNED	REVIS	REVIS	REVIS
CS	CS	CS	CS
DRAWN	REC	REC	REC
DATE	08/23/01	08/13/04	06/22/06

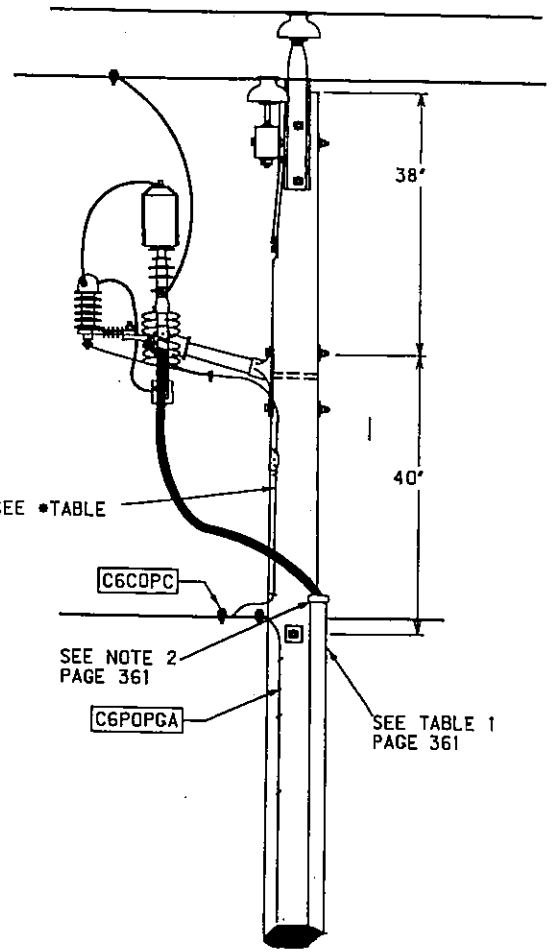
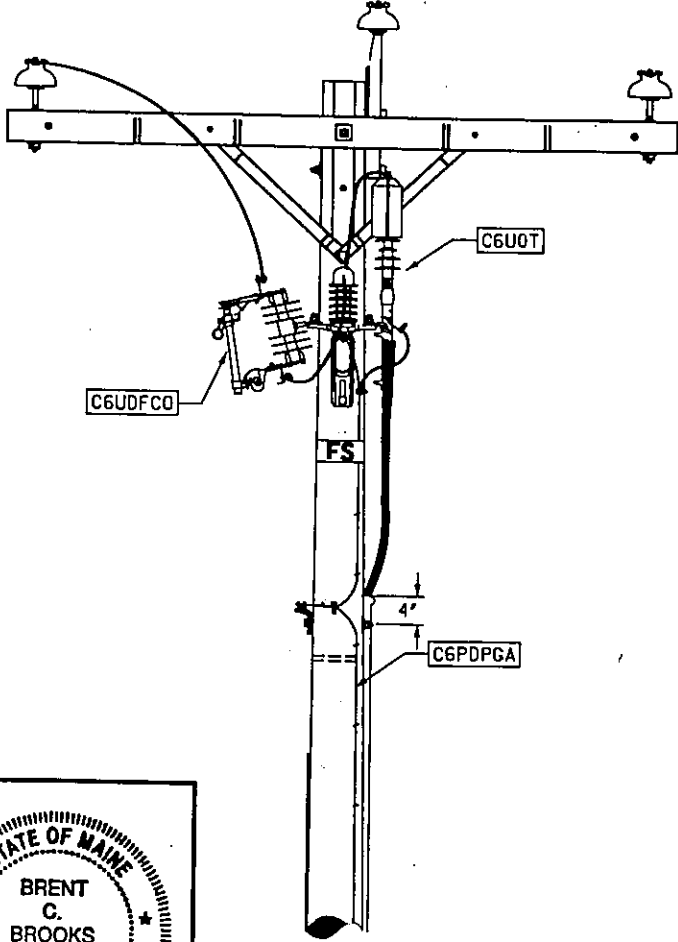


* TABLE
* USE PROPER SIZE NEUTRAL ON A POLE BETWEEN SYSTEM NEUTRAL AND URD CABLE NEUTRAL

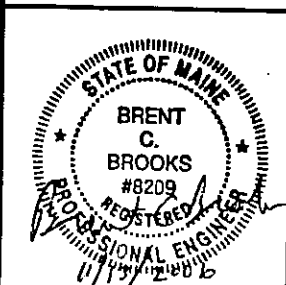
CABLE SIZE	POLE NEUTRAL CU
*2	C6U0CU4TWAS
1/0	C6UDCU2TWAS
4/0	C6U0CU2/0TWAS
Larger Than 4/0	C6U0CU4/0TWAS



ORIGINAL	REVIS
DRAWN	GRG
DATE	8/25/93



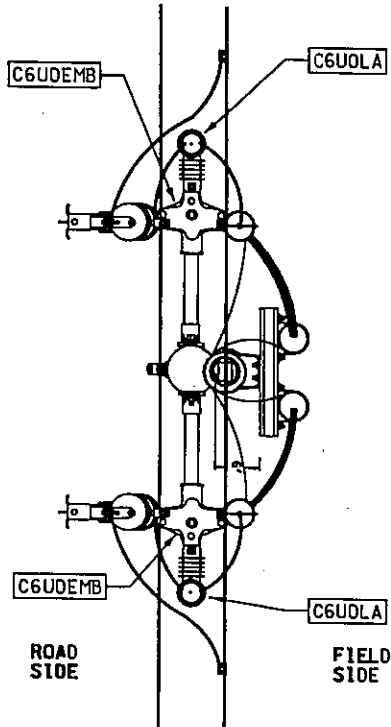
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRD RDD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6UDEMB	2	EQUIP MOUNTING BRACKET 18IN	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	1	BKT EQUIP MTG 18 IN	6000620140
C6UDFCO	2	UNDERGROUND FUSED CUTOUT (GENERIC)	
	1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6UDIOC	2	INST OF 1C CABLE IN CONDUIT PER 50FT	
C6UDIOR2	2	INST CONDUIT RISER ON POLE 2-3 IN	
C6UDLA	2	UNDERGROUND LIGHTNING ARREST (GENERIC)	
	1	WILDLIFE PROTECTOR	60003128XX
	1	LIGHTNING ARRESTOR GENERIC	6000490XXX
C6UDSEAL	1	POLYURETHANE SEALANT (PURCHASE LOCALLY)	
	1	POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	2	TERMINATOR GENERIC (SELECT FROM CUCT)	
	1	TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	10	TAP WIRE, GENERIC	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX

DESIGNED	REVIS	REVISED	REVISED
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	01/22/02	08/16/04	06/22/06

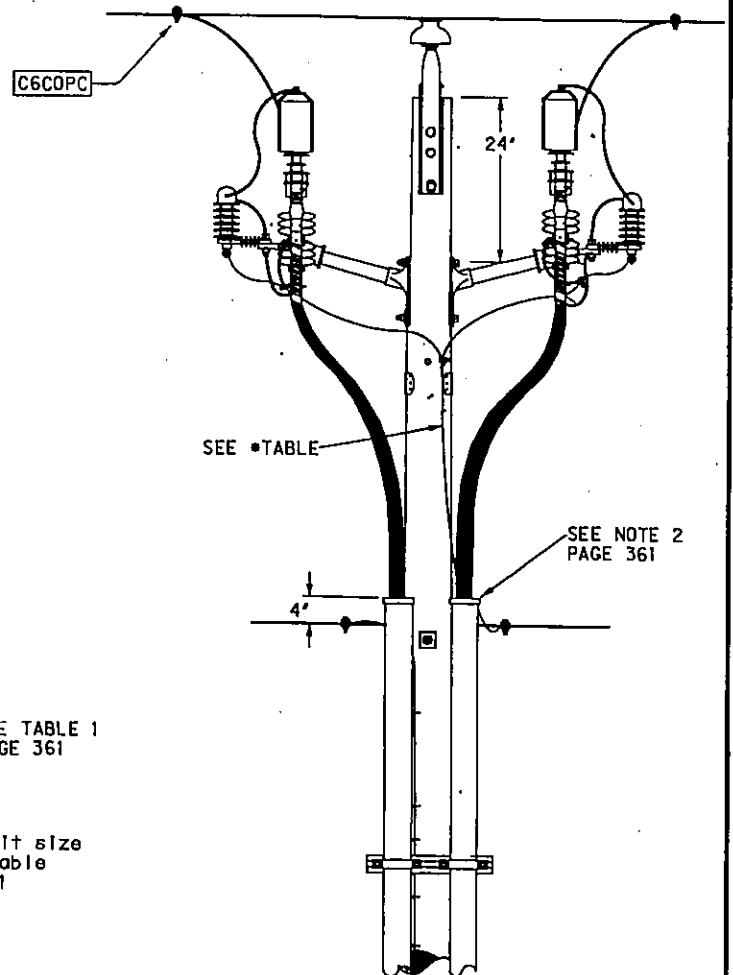
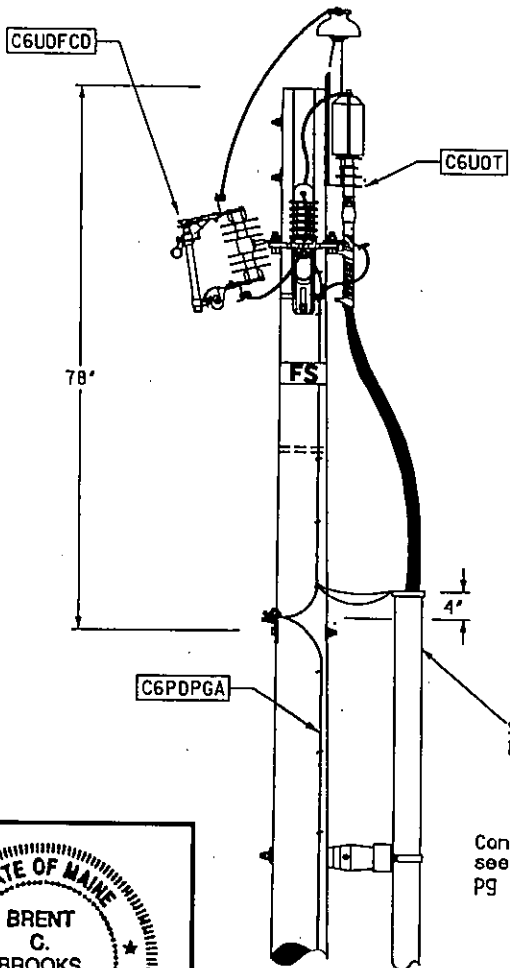


* TABLE
* USE PROPER SIZE NEUTRAL ON A POLE BETWEEN SYSTEM NEUTRAL AND URD CABLE NEUTRAL

CABLE SIZE	POLE NEUTRAL CU
#2	C6UDCU4TWAS
1/0	C6UUCU2TWAS
4/0	C6UUCU2/OTWAS
Larger Than 4/0	C6UDCU4/OTWAS



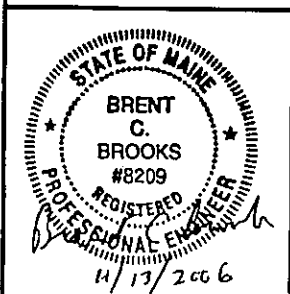
ORIGINAL	REDESIGNED
DRAWN	GRG
DATE	8/27/93



SEE TABLE 1
PAGE 361

Conduit size
see table
pg 361

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



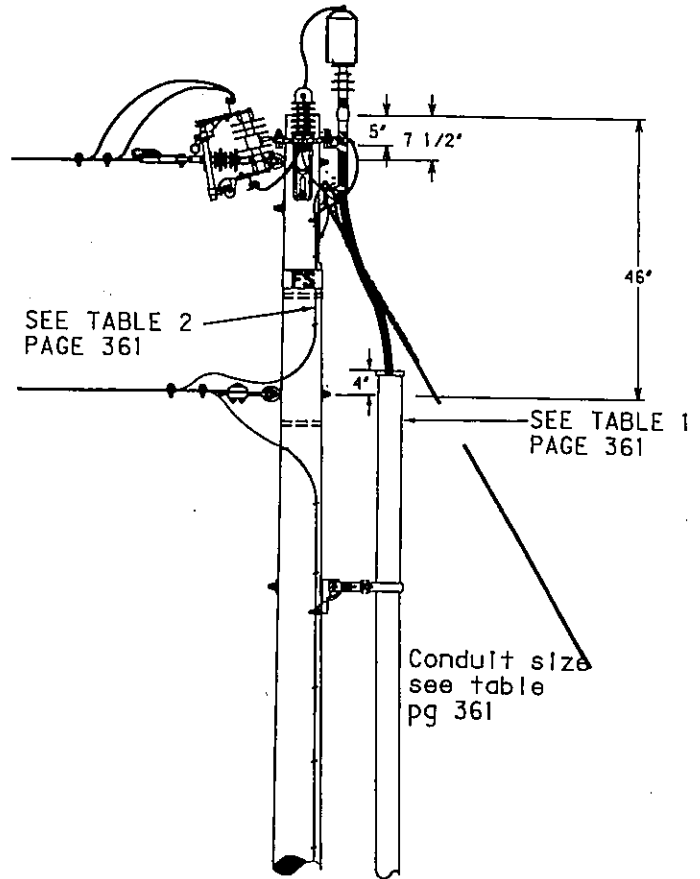
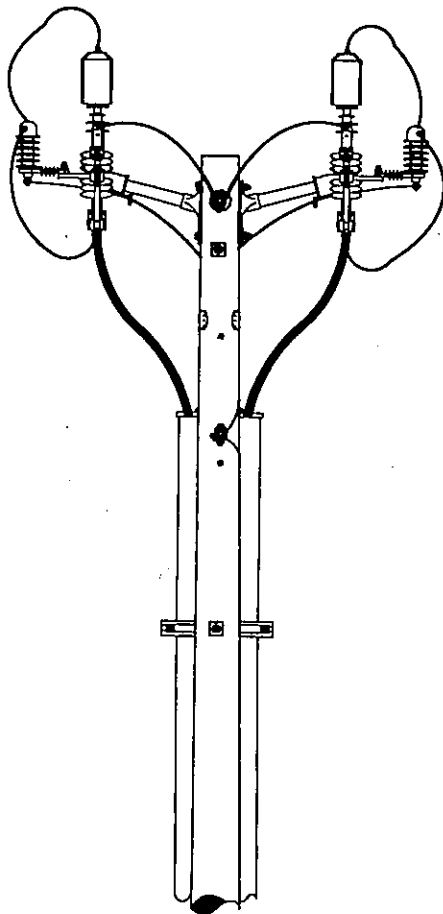
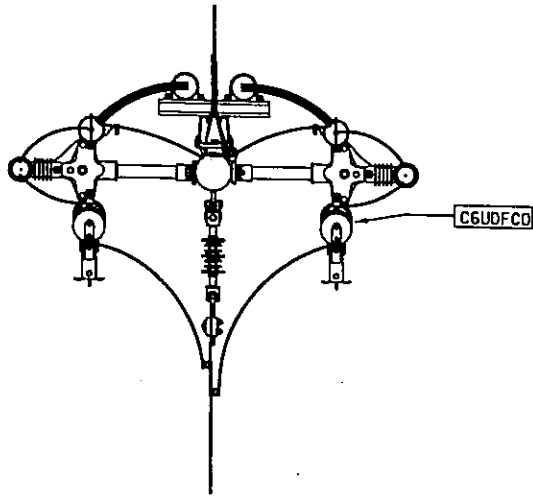
Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6PDPGA	1	POLE GROUND ASSEMBLY	
		1 CONN GRD ROO 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		8 MOULDING PLAS 1/2 IN GR	6000251680
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRO WR	6000274402
		6 STAPLE F/ 1/2IN MOLDING	6000274410
		40 WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6UDEMB	2	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6UDFCO	2	UNDERGROUND FUSED CUTOUT (GENERIC)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6UDIIOC	2	INST OF 1C CABLE IN CONDUIT PER 50FT	
C6UDIOR2	2	INST CONDUIT RISER ON POLE 2-3 IN	
C6UDLA	2	UNDERGROUND LIGHTNING ARREST (GENERIC)	
		1 WILDLIFE PROTECTDR	60003128XX
		1 LIGHTNING ARRESTOR GENERIC	6000490XXX
C6UDSEAL	1	POLYURETHANE SEALANT (PURCHASE LOCALLY)	
		1 POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	2	TERMINATOR GENERIC (SELECT FROM CUCT)	
		1 TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	10	TAP WIRE, GENERIC	
		1 TAP WIRE (SELECT FROM CUCT)	600020XXXX

MACRO
C6MU1 PRLFDE

DESCRIPTION
1 PH RISER LOOP FEED FROM DEAD END

PAGE
361-7.1B

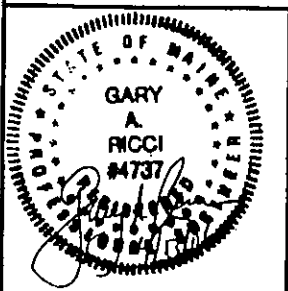


DESIGNED	REVISOR	REVISOR	REVISOR
DRAWN	DATE	DATE	DATE
DATE			



DESIGNED	CS	ORIGINAL
DRAWN	REC	
DATE	03/01/06	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

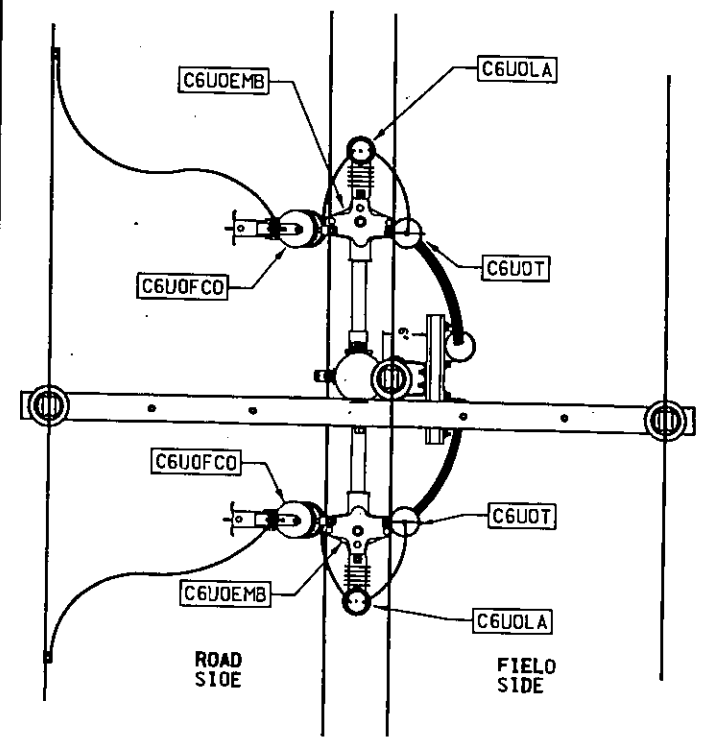
CU Number	Quantity - CU/Mat	Description	Material ID
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRO ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6UDEMB	2	EQUIP MOUNTING BRACKET 18IN	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
	1	BKT EQUIP MTG 18 IN	6000620140
C6UDFCO	2	UNDERGROUND FUSED CUTOUT (GENERIC)	
	1	FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6UDIOC	2	INST OF 1C CABLE IN CONDUIT PER 50FT	
C6UDIOR2	2	INST CDNDUIT RISER ON POLE 2-3 IN	
C6UDLA	2	UNDERGROUND LIGHTNING ARREST (GENERIC)	
	1	WILDLIFE PROTECTOR	60003128XX
	1	LIGHTNING ARRESTOR GENERIC	6000490XXX
C6UDSEAL	1	POLYURETHANE SEALANT (PURCHASE LOCALLY)	
	1	POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	2	TERMINATOR GENERIC (SELECT FROM CUCT)	
	1	TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	10	TAP WIRE, GENERIC	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX

DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
10/22/02	08/20/04	06/22/06	



ORIGINAL	REVIS
DESIGNED	CS
DRAWN	REC
DATE	
8/27/93	

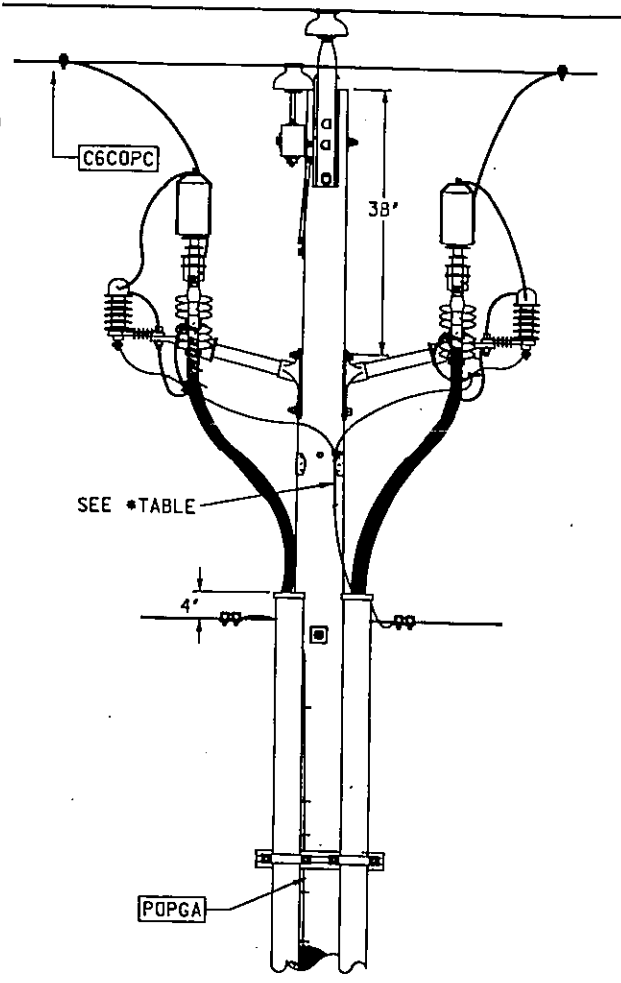
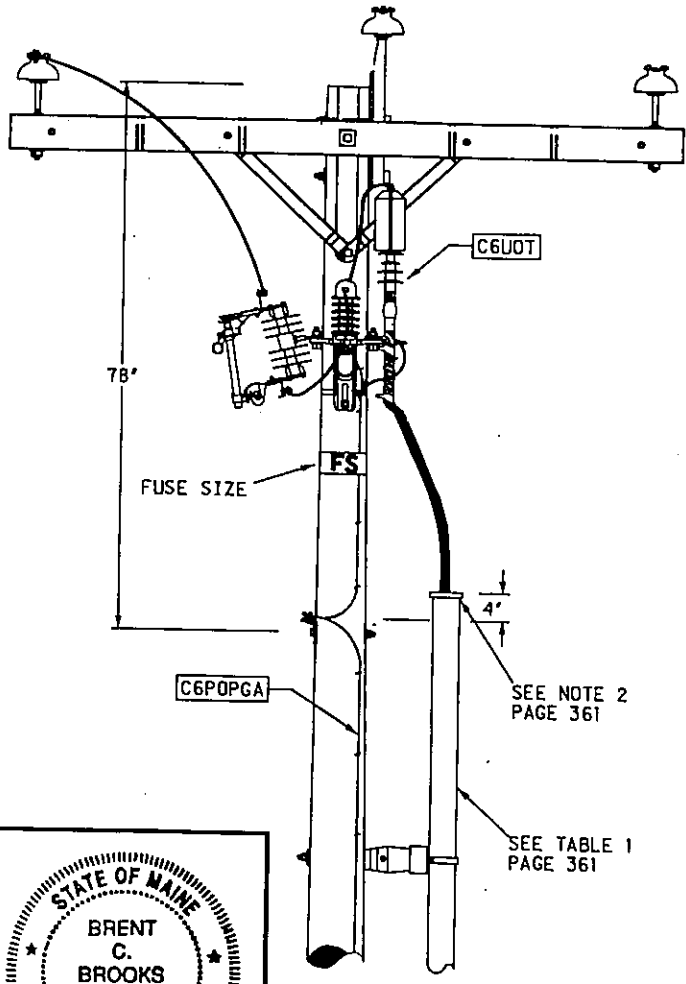
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE:
BOTH CABLES SHALL BE
CONNECTED TO THE
SAME PHASE

* TABLE
* USE PROPER SIZE NEUTRAL ON A POLE BETWEEN
SYSTEM NEUTRAL AND URO CABLE NEUTRAL

CABLE SIZE	POLE NEUTRAL CU
#2	C6U0CU4TWAS
1/0	C6U0CU2TWAS
4/0	C6U0CU2/0TWAS
Larger Than 4/0	C6U0CU4/0TWAS



STATE OF MAINE
BRENT
C.
BROOKS
#8209
REGISTERED
PROFESSIONAL ENGINEER
11/13/2006



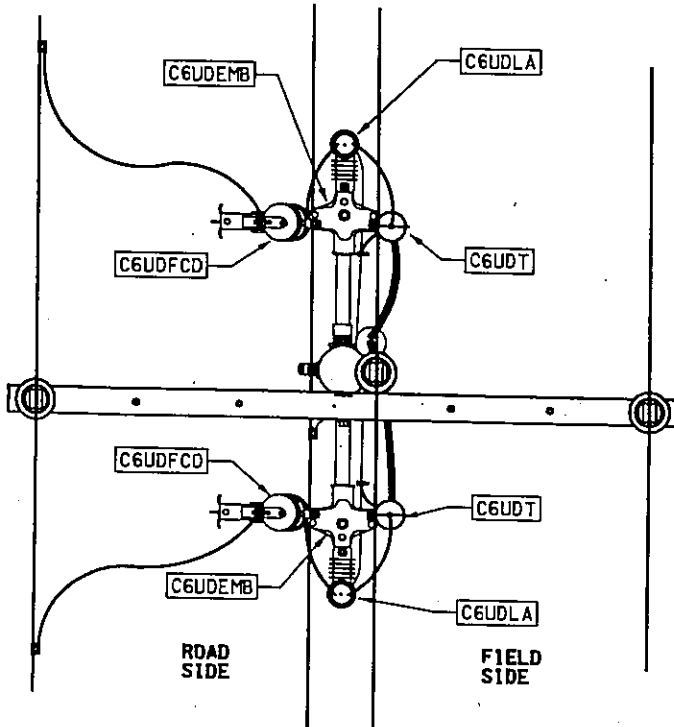
Distribution Construction Standards - CMP Co.

Page 361-8.1A 1PH RISER LOOP FROM SX STRUCT SGL COND

Macro: C6MU1PRLFSX1CON

CU Number	Quantity - CU/Mat	Description	Material ID
C6PDPGA	1	POLE GRQUND ASSEMBLY	
		1 CONN GRD ROD 3/4 IN	6000112662
		1 CONNECTORS	600011XXXX
		8 MOULDING PLAS 1/2 IN GR	6000251680
		1 ROD GROUND GALV 3/4X8FT	6000251860
		9 STAPLES GALV F/4 GRD WR	6000274402
		6 STAPLE F/ 1/2IN MOLDING	6000274410
		40 WIRE NO. 4 CU GROUND BARE STRANOED S D	751182
C6UDEMB	2	EQUIP MOUNTING BRACKET 18IN	
		2 BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
		2 WSH 2 TURN SPR GALV 5/8	6000274600
		2 WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1 BKT EQUIP MTG 18 IN	6000620140
C6UDFCO	2	UNDERGROUND FUSED CUTOUT (GENERIC)	
		1 FUSED CUTOUT (SELECT FROM CUCT)	6000491XXX
C6UDIQC	1	INST OF 1C CABLE IN CONOUIT PER 50FT	
C6UDIOR3	1	INST CONDUIT RISER ON POLE 3 1/4-7 IN	
C6UDLA	2	UNDERGROUND LIGHTNING ARREST (GENERIC)	
		1 WILDIFE PROTECTOR	60003128XX
		1 LIGHTNING ARRESTOR GENERIC	6000490XXX
C6UDSEAL	1	POLYURETHANE SEALANT (PURCHASE LDCALLY)	
		1 POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	2	TERMINATDR GENERIC (SELECT FROM CUCT)	
		1 TERMINATORS (SELECT FRDM CUCT)	60002158XX
C6UDTW	10	TAP WIRE, GENERIC	
		1 TAP WIRE (SELECT FROM CUCT)	600020XXXX

DESIGNED	REVISOR	REVISION
DRAWN	REVISOR	REVISION
DATE	REVISOR	REVISION



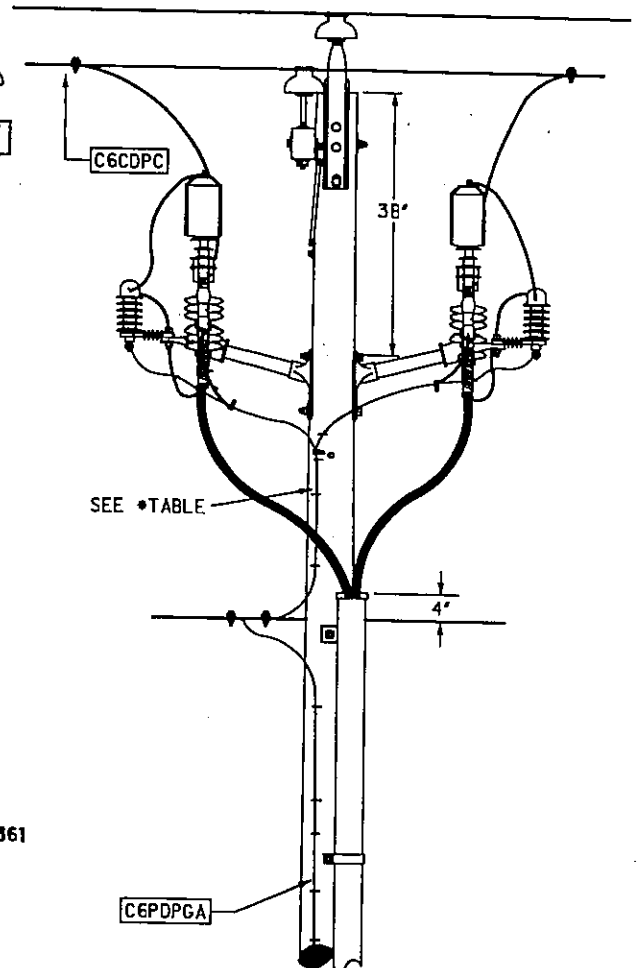
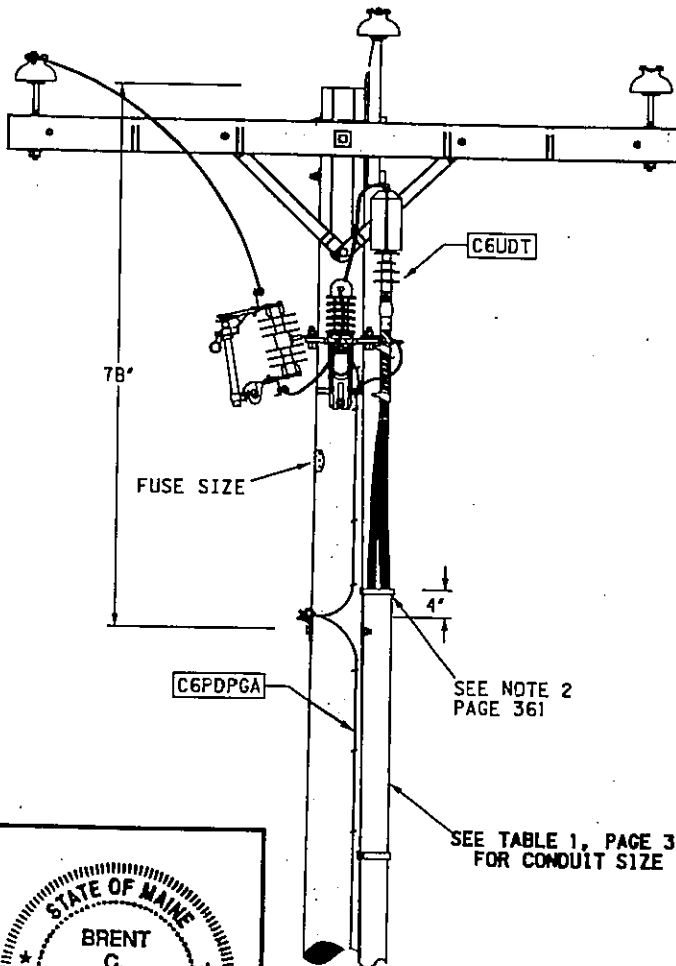
NOTE:
BOTH CABLES SHALL BE
CONNECTED TO THE
SAME PHASE

* TABLE
USE PROPER SIZE NEUTRAL ON A POLE BETWEEN
SYSTEM NEUTRAL AND URD CABLE NEUTRAL

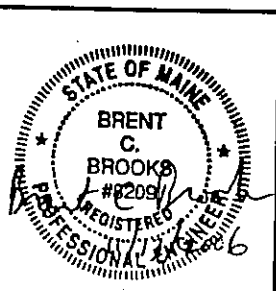
CABLE SIZE	POLE NEUTRAL CU
#2	C6UDCU4TWAS
1/0	C6UDCU2TWAS
4/0	C6UDCU2/DTWAS
Larger Than 4/0	C6UDCU4/DTWAS



DESIGNED	CS	REC	DATE
DRAWN			06/23/06



THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDDE	4	DEADEND COND GENERIC (SELECT FROM CUCT)	
	1	DEADEND PRI (SELECT FROM CUCT)	60001106XX
C6COEB5/8	4	EYE BOLT ROUND 5/8 INCH VARIOUS LENGTHS	
	1	BOLT, EYE 5/8 INCH ALL LENGTHS	600027045X
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
C6COHS1/2	2	SHACKLE 1/2IN W 5/8IN PIN	
	1	SHACKLE 1/2 IN W5/8PIN	6000274320
C6CDINSS	2	INS DEADEND GENERIC (SELECT FROM CUCT)	
	1	INSULATORS	6000310XXX
C6PD	2	POLE GENERIC (SELECT FROM CUCT)	
	1	POLES (SLECT FROM CUCT)	800074XXXX
C6PDA	2	ANCHOR, GENERIC (SELECT FROM CUCT)	
	1	ANCHORS (SELECT FROM CUCT)	6000250XXX
C6PDG	2	GUY, GENERIC (SEE TABLE PAGE 309-6)	
	1	GUYS (SEE TABLE PAGE 309-6)	60002527XX
C6PDPGA	2	POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6UDEMB	4	EQUIP MOUNTING BRACKET 18IN	
	2	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	WSH 2 TURN SPR GALV 5/8	6000274600
	2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	1	BKT EQUIP MTG 18 IN	6000620140
C6UDFCD	2	UNDERGROUND FUSED CUTOFF (GENERIC)	
	1	FUSED CUTOFF (SELECT FROM CUCT)	6000491XXX
C6UDIDC	4	INST OF 1C CABLE IN CONDUIT PER 50FT	
C6UDIOR2	4	INST CONDUIT RISER ON POLE 2-3 IN	
C6UDLA	4	UNDERGROUND LIGHTNING ARREST (GENERIC)	
	1	WILDLIFE PROTECTOR	60003128XX
	1	LIGHTNING ARRESTOR GENERIC	6000490XXX
C6UDSEAL	2	POLYURETHANE SEALANT (PURCHASE LOCALLY)	
	1	POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	4	TERMINATOR GENERIC (SELECT FROM CUCT)	
	1	TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	20	TAP WIRE, GENERIC	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX

MACRO
C6MU1PRLFTRANS

DESCRIPTION
1 PH RISER LOOP FEED TRANSITIONAL

PAGE
361-8.2B

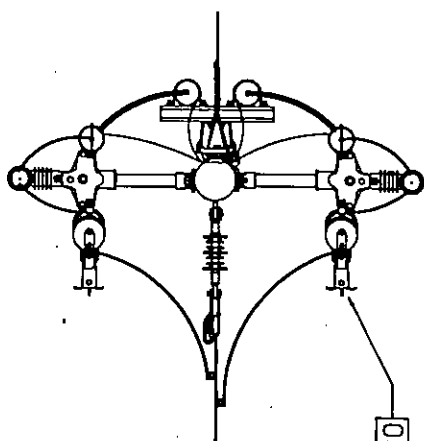
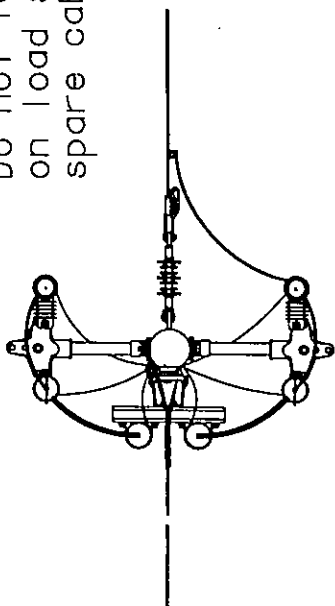
DESIGNED	REVIS	REVISED	REVISED
DRAWN			
DATE			



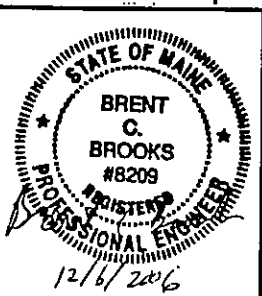
DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	12/06/06

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

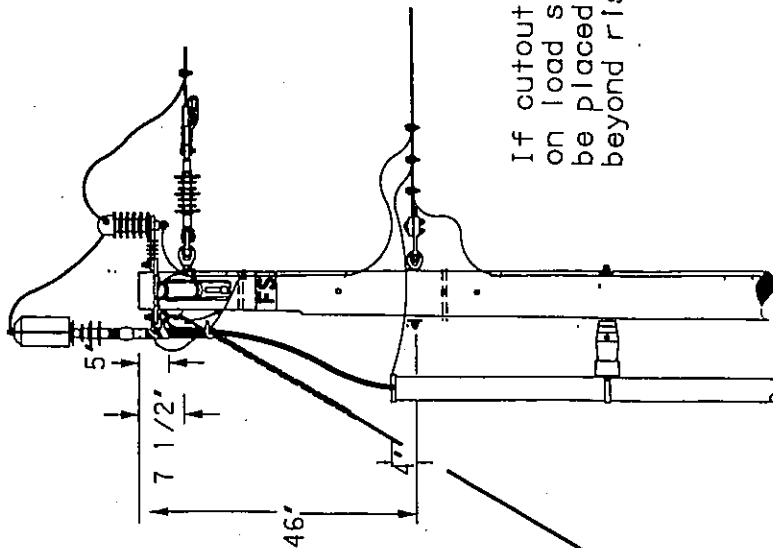
Do not tap
on load side
spare cable.



C6UDFCO

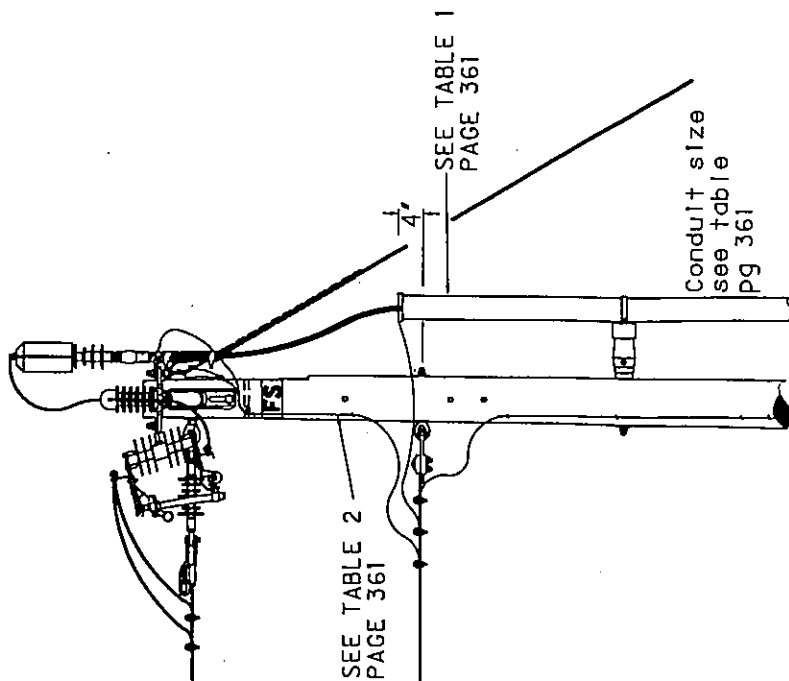


LOAD



If cutout is required
on load side, it shall
be placed on pole
beyond riser.

SOURCE



SEE TABLE 2
PAGE 361

SEE TABLE 1
PAGE 361

Conduit size
see table
pg 361



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

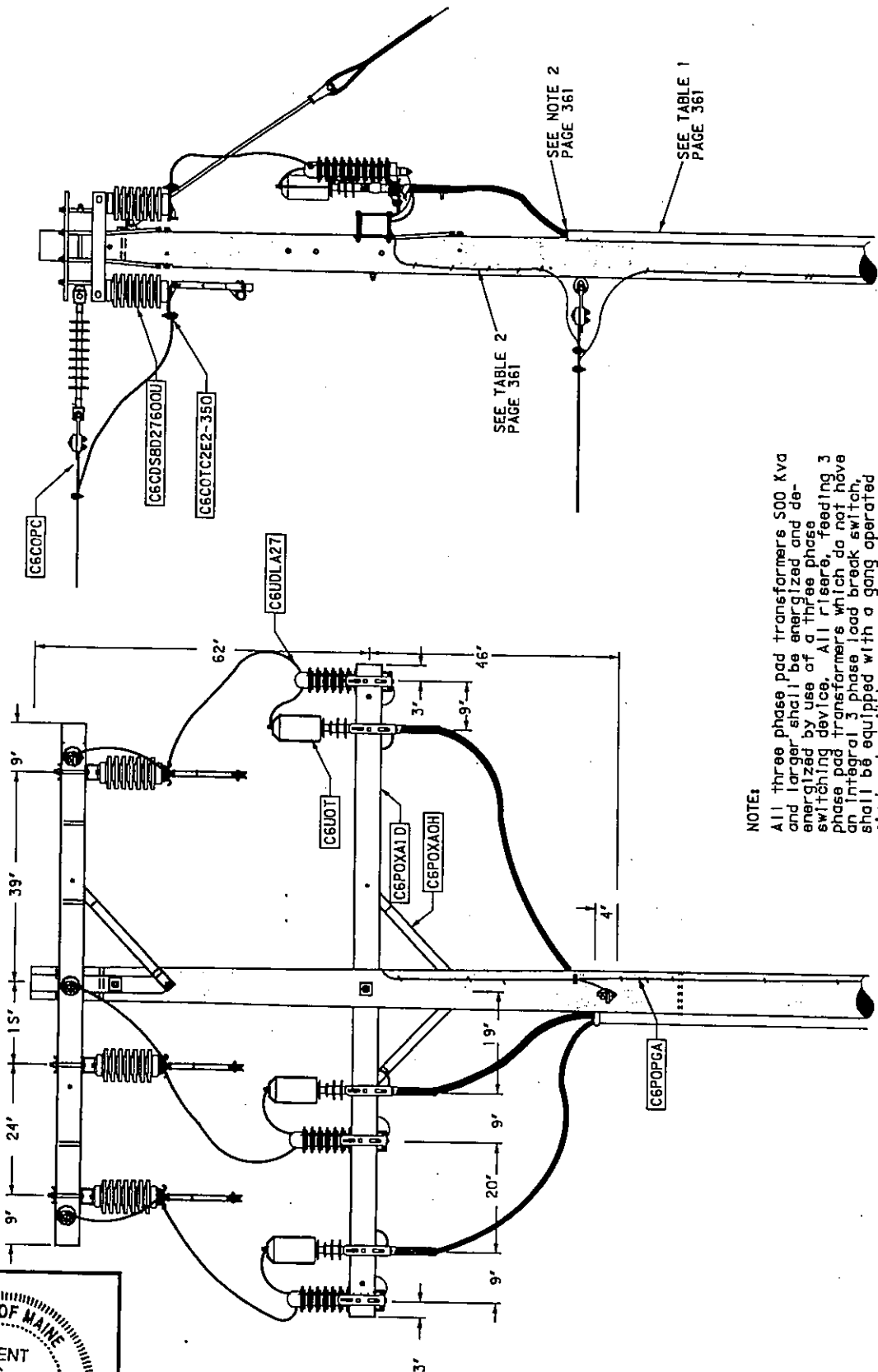
<i>CU Number</i>	<i>Quantity - CU/Mat</i>	<i>Description</i>	<i>Material ID</i>
C6CDPC	3	CONNECTDR,PRIMARY	
	1	CONNNECTORS	600011XXXX
C6CDSBD27600U	3	SWITCH DISCONNECT 27KV 600AMP UNDERARM	
	2	CONNNECTORS	600011XXXX
	10	WIRE 600V XHHW 4/0 COPPER STRANDED	6000207429
	1	SW DISC 27KV UNDER ARM	6000642685
C6CDTC2E2-350	6	TERM CONN 2 EYEBOLTS 2-350KCM CU 2 BOLT	
	1	CONN TERM 350CU-BAR	6000117976
C6PDGSLFA36	1	GUY STRAIN LINK ASSEMBLY, F/G 36IN	
	1	INS STRAIN 21000LBX36IN	6000251620
	1	PLATE GUY ATT FG INS	6000251800
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	2	B LAG GALV FET 1/2 X 4	6000272540
	1	WSH 2 TURN SPR GALV 5/8	6000274600
	1	WASHER,SQUARE,GALVANIZED ALL SIZES	60002746XX
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	6	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA10	1	XARM, 8PINB, 10 FT	
	1	XARM 8 PIN B	6000740540
C6PDXASH	1	XARM, SINGLE, HARDWARE ONLY	
	2	B CARR GALV 3/8 X 5	6000270310
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	B LAG GALV FET 1/2 X 4	6000272540
	2	BRACE XARM 2B IN	6000272670
	2	WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
	3	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6UDIDC	1	INST OF 1C CABLE IN CONDUIT PER 50FT	
C6UDIOR3	1	INST CDNDUIT RISER ON POLE 3 1/4-7 IN	
C6UDLA	3	UNDERGROUND LIGHTNING ARREST (GENERIC)	
	1	WILDLIFE PROTECTOR	60003128XX
	1	LIGHTNING ARRESTOR GENERIC	6000480XXX
C6UDLAMB	6	XARM MOUNTING BRACKET	
	1	BKT EQUIP MTG CROSSARM	6000620100
C6UDT	3	TERMINATOR GENERIC (SELECT FROM CUCT)	
	1	TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	20	TAP WIRE, GENERIC	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX

DESIGNED	CS	REVIS	CS	REVISED	CS
DRAWN	REC	REC	REC	REC	REC
DATE	08/16/04	04/08/05	06/22/06		

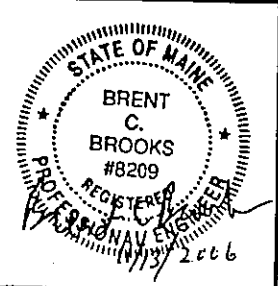


DESIGNED	GRG	ORIGINAL
DRAWN	GRG	REDRAWN
DATE	9/7/94	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTES:
All three phase pad transformers 500 Kva and larger shall be energized and de-energized by use of a three phase switching device. All risers feeding 3 phase pad transformers which do not have an integral 3 phase load break switch, shall be equipped with a gang operated air break switch.



Distribution Construction Standards - CMP Co.

<i>CU Number</i>	<i>Quantity - CU/Mat</i>		<i>Description</i>	<i>Material ID</i>
C8CDFEF	6		FUSE END FITTINGS F/SMD20 7.2 TO 34.5KV	
		1	FU END FIT 7.2-34SMD20	6000498600
C6CDFMSMD20	3		FUSE MOUNTING SMD 20 34.5KV	
		1	FUSE PWR MTG F/SMD-20	6000492560
C6CDFU	3		FUSE UNIT FOR SMD 20 MOUNT	
		1	SMD 20 FUSE UNIT,GENERIC	600049058X
C8CDINSPT	3		INSULATOR PIN TYPE GENERIC.(SELECT FROM	
		1	INSULATORS	6000310XXX
C6CDIPIN	3		INSULATOR PINS VARIOUS SIZES LOBBY	
		1	XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		1	WSH 2 TURN SPR GALV 5/8	6000274600
C6COPC	10		CONNECTOR,PRIMARY	
		1	CONNECTORS	600011XXXX
C8CDSAB34600VS	1		SWITCH, A/B 34KV 600AMP VERT SIDEBREAK	
		2	BOLT, THRU 5/8 IN, ALL LENGTHS	600027208X
		4	WSH 2 TURN SPR GALV 5/8	6000274600
		2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		1	SW A/B34KV VERT/SIDEBRK	6000640675
C6CDTC2E2-350	9		TERM CONN 2 EYEBOLTS 2-350KCM CU 2 BOLT	
		1	CONN TERM 350CU-BAR	6000117976
C6CDTW	45		TAPWIRE GENERIC (SELECT FROM CUCT)	
		1	TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PDPGA	1		POLE GROUND ASSEMBLY	
		1	CONN GRD ROD 3/4 IN	6000112662
		1	CONNECTORS	600011XXXX
		8	MOLDING PLAS, 1/2 IN GR	6000251680
		1	ROD GROUND GALV 3/4X8FT	6000251860
		9	STAPLES GALV F/4 GRD WR	6000274402
		6	STAPLE F/ 1/2IN MOLDING	6000274410
		40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA10	4		XARM, 8PIN, 10 FT	
		1	XARM 8 PIN B	6000740540
C6PDXA8	2		XARM, 6PIN, 8FT	
		1	XARM 6PIN B	6000740510
C6POXADH	3		XARM, DOUBLE, HARDWARE ONLY	
		4	B CARR GALV 3/8 X 5	6000270310
		3	BOLT, SPACE, 5/8 IN, ALL SIZES	600027217X
		2	B LAG GALV FET 1/2 X 4	6000272540
		4	BRACE XARM 28 IN	6000272670
		10	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		9	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6UDLA27	3		LIGHTNING ARRESTOR 27KV	
		2	CONNECTORS	600011XXXX
		3	WIRE #2 CU 7 STRAND SD, RHW USE OR RHH	6000207360
		4	STAPLES GALV F/4 GRD WR	6000274402
		1	WILDLIFE PROTECTOR	60003128XX
		1	ARRESTER, DISTRIBUTION	6000490120
		3	WIRE NO. 4 CU GROUND BARE STRANDED S O	751182
C6UDLAMB	6		XARM MOUNTING BRACKET	
		1	BKT EQUIP MTG CROSSARM	6000620100
C6UDT	3		TERMINATOR GENERIC (SELECT FROM CUCT)	
		1	TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	15		TAP WIRE, GENERIC	
		1	TAP WIRE (SELECT FROM CUCT)	600020XXXX

MACRO
C6MT3PR3W/AB34

DESCRIPTION
3PH RISER 3 WIRE WITH AIR BREAK 34KV

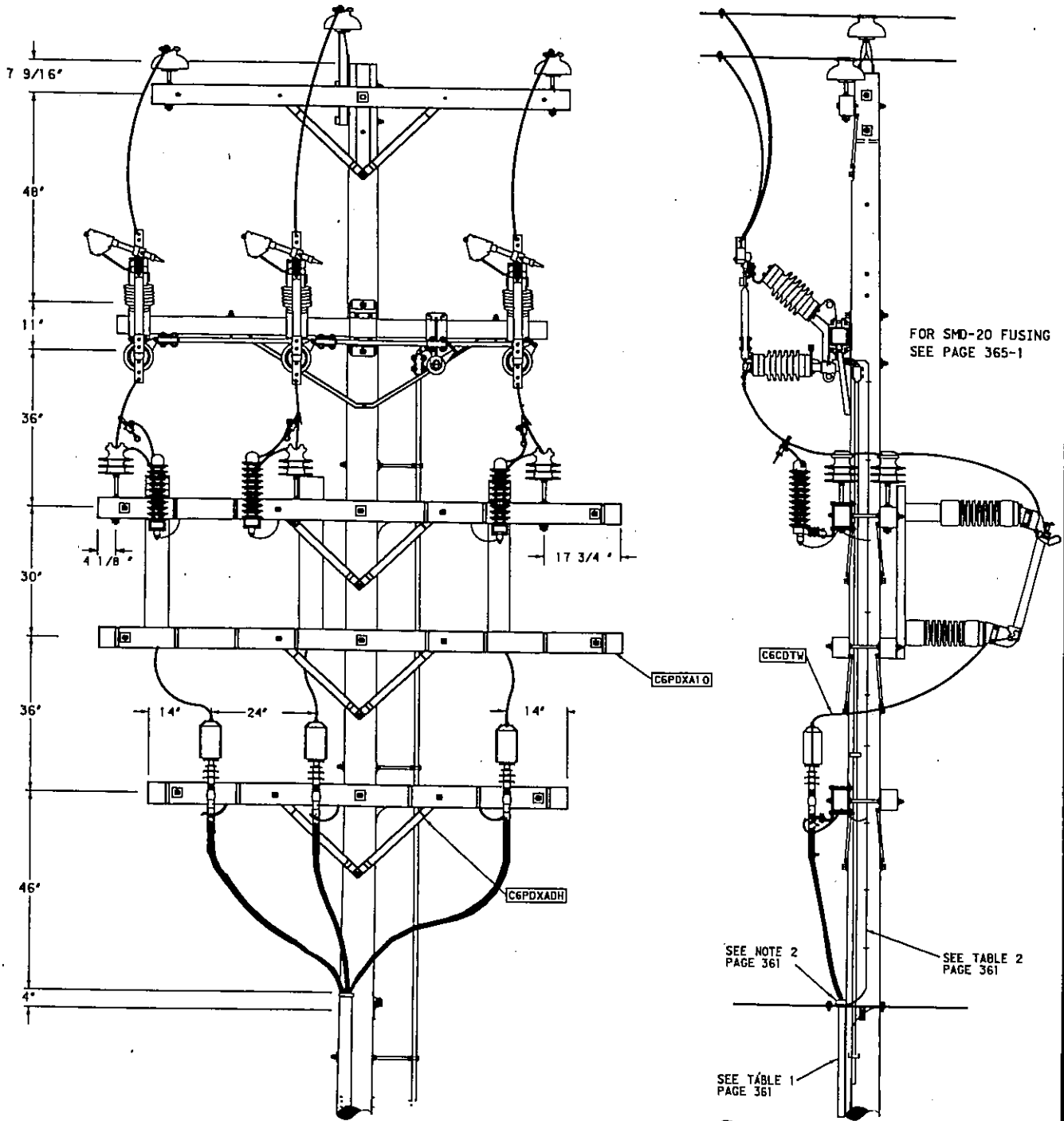
PAGE
361-10B

REV	REVISION	DATE	BY
1	PROVIDE SPD SWITCH	04/17/03	

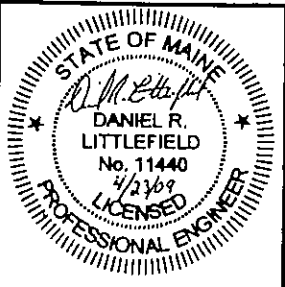


DESIGNED	HEP
DRAWN	GRG
DATE	05/02/90

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



FOR MOUNTING F/SMD-20 34.5KV FUSE LINK UNITS, USE TWO (2) 10' 8 PIN CROSSARMS (MIO*6000740S40). USING THE DIMENSIONS TO THE RIGHT DRILL 11/16" HOLES, FOUR (4) PER FUSE HOLDER AND MOUNT WITH 5/8" X 7" BOLTS (MIO*6000272081).



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

Page 361-11A 3PH RISER, 4 WIRE WITH AIR BREAK 34KV

Macro: C6MT3PR4W/AB34

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDFEF	6	FUSE END FITTINGS F/SMD20 7.2 TO 34.5KV	
		FU END FIT 7.2-34SMD20	6000498600
C6CDFMSMD20	3	FUSE MOUNTING SMD 20 34.5KV	
		FUSE PWR MTG F/SMD-20	6000492560
C6CDFU	3	FUSE UNIT FOR SMD 20 MOUNT	
		SMD 20 FUSE UNIT.GENERIC	600049058X
C6CDINSPT	3	INSULATOR PIN TYPE GENERIC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIFIN	3	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS, USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	8000274600
C6CDPC	10	CONNECTOR, PRIMARY	
		CONNECTORS	600011XXXX
C6CDSAB34600VS	1	SWITCH, A/B 34KV 600AMP VERT SIDEBREAK	
		BOLT, THRU 5/8 IN, ALL LENGTHS	600027206X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		SW A/B34KV VERT/SIDEBRK	6000640675
C6CDTC2E2-350	9	TERM CONN 2 EYEBOLTS 2-350KCM CU 2 BOLT	
		CONN TERM 350CU-BAR	6000117976
C6CDTW	45	TAPWIRE, GENERIC (SELECT FROM CUCT)	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4X8FT	6000251860
		STAPLES GALV F/4 GRD WR	6000274402
		STAPLE F/ 1/2IN MOLDING	6000274410
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA10	4	XARM, 8PINB, 10 FT	
		XARM 8 PIN B	6000740540
C6PDXA8	2	XARM, 6PINB, 8FT	
		XARM 6PIN B	6000740510
C6PDXADH	3	XARM, DOUBLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, SPACE, 5/8 IN, ALL SIZES	600027217X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6UDFILT	1	INDICATOR, FAULT, URD, LOAD TRACKER	
		INDICATOR, FAULT, URD, LOAD TRACKER	751482
C6UDLA27	3	LIGHTNING ARRESTOR 27KV	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD, RHW USE OR RHH	6000207360
		STAPLES GALV F/4 GRD WR	6000274402
		WILDLIFE PROTECTOR	60003128XX
		ARRESTER, DISTRIBUTION	6000490120
		WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6UDIAMB	6	XARM MOUNTING BRACKET	
		BKT EQUIP MTG CROSSARM	6000620100
C6UDT	4	TERMINATOR GENERIC (SELECT FROM CUCT)	
		TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	15	TAP WIRE, GENERIC	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX

MACRO
C6MT3PR4W/AB34

DESCRIPTION
3 PH RISER 4 WIRE WITH FUSED AIR BREAK 34KV

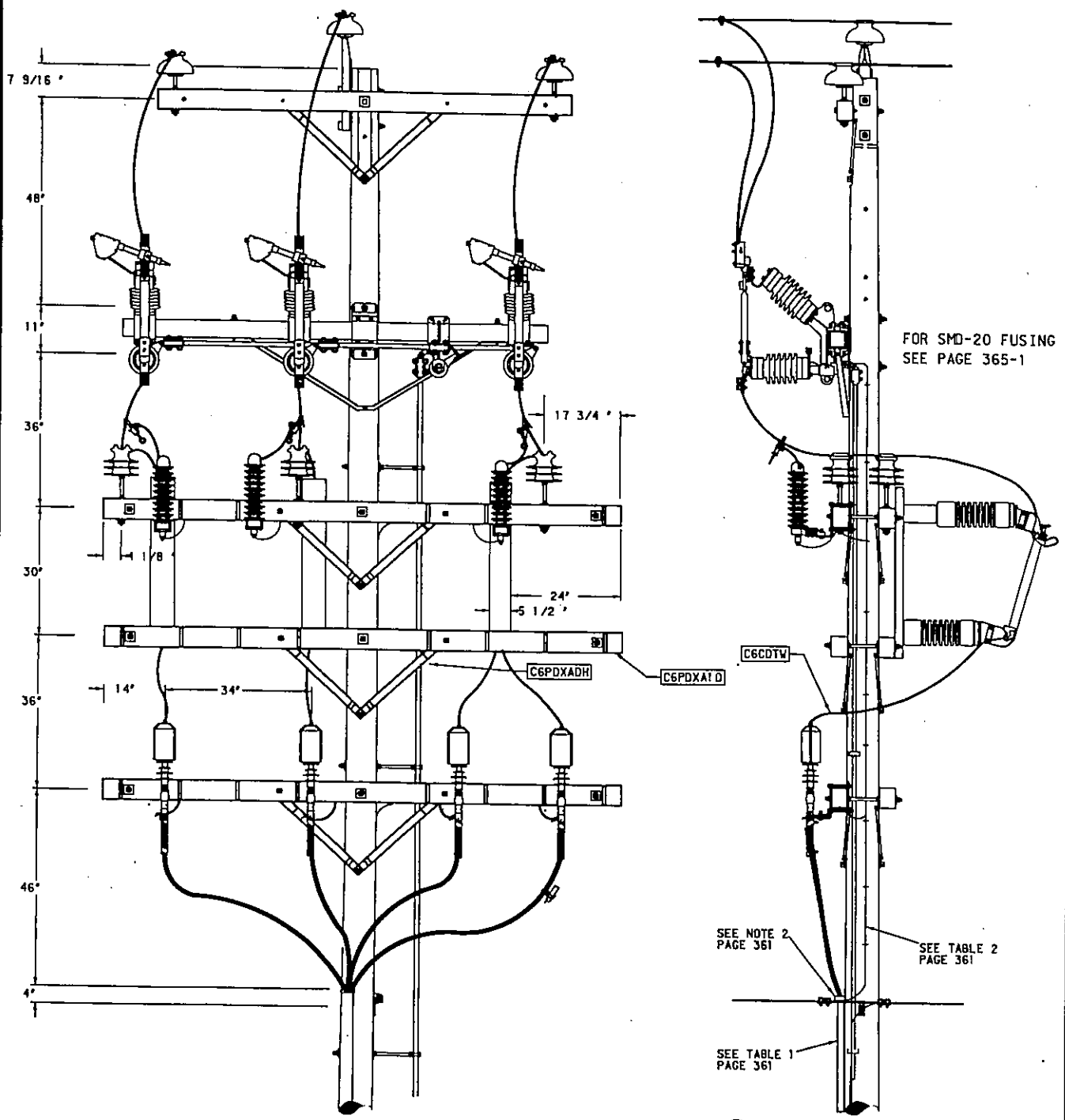
PAGE
361-11B

NO.	REVISION	DATE	BY
1	Moved center sw, chgd lower xarm to 1.0ft	04/17/03	

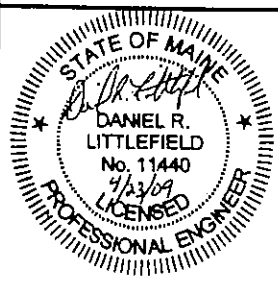
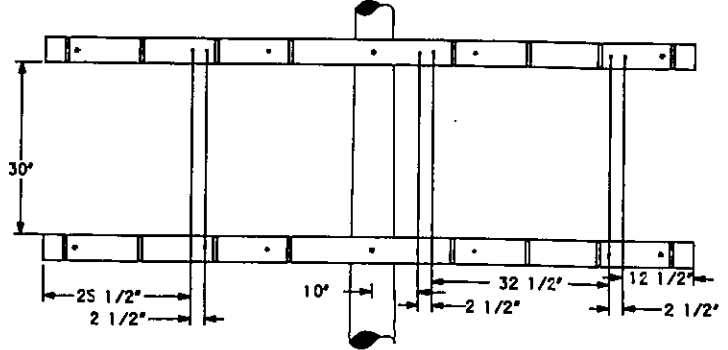


DESIGNED	CS
DRAWN	REC
DATE	09/03/01

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



FOR MOUNTING F/SMD-20 34.5KV FUSE LINK UNITS, USE TWO (2) 10" B PIN CROSSARMS (MID*600074DS40). USING THE DIMENSIONS TO THE RIGHT DRILL 11/16" HOLES, FOUR (4) PER FUSE HOLDER AND MOUNT WITH 5/8" X 7" BDLTS (MID*6000272081).



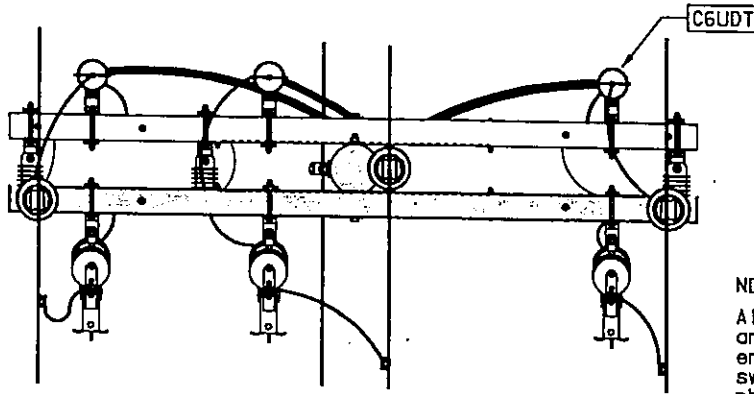
CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDPC	3	CONNECTOR,PRIMARY	
	1	CONNECTORS	600011XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
	1	CONN GRD ROD 3/4 IN	6000112662
	1	CONNECTORS	600011XXXX
	8	MOULDING PLAS 1/2 IN GR	6000251680
	1	ROD GROUND GALV 3/4X8FT	6000251860
	9	STAPLES GALV F/4 GRD WR	6000274402
	6	STAPLE F/ 1/2IN MOLDING	6000274410
	40	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6PDXA8	1	XARM, 6PIN8, 8FT	
	1	XARM 6PIN 8	6000740510
C6PDXASH	1	XARM, SINGLE, HARDWARE ONLY	
	2	8 CARR GALV 3/8 X 5	6000270310
	1	BOLT, THRU 5/8 IN. ALL LENGTHS	600027208X
	1	8 LAG GALV FET 1/2 X 4	6000272540
	2	BRACE XARM 28 IN	6000272670
	2	WASHER, SQUARE, GALVANIZED ALL SIZES	60002748XX
	3	WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6UDFCO	3	UNDERGROUND FUSED CUTOOUT (GENERIC)	
	1	FUSED CUTOOUT (SELECT FROM CUCT)	6000491XXX
C6UDIOC	3	INST OF 1C CABLE IN CONDUIT PER 50FT	
C6UDIOR3	1	INST CONDUIT RISER ON POLE 3 1/4-7 IN	
C6UDLA9	3	LIGHTNING ARRESTOR 10KV	
	2	CONNECTORS	600011XXXX
	3	WIRE #2 CU 7 STRAND SD RHW USE OR RHH	6000207360
	4	STAPLES GALV F/4 GRD WR	6000274402
	1	WILDLIFE PROTECTOR	60003128XX
	1	ARR DIST 10KV	6000490060
	3	WIRE NO. 4 CU GROUND BARE STRANDED S D	751182
C6UDLAM8	9	XARM MOUNTING BRACKET	
	1	BKT EQUIP MTG CROSSARM	6000620100
C6UDSEAL	1	POLYURETHANE SEALANT (PURCHASE LOCALLY)	
	1	POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	3	TERMINATOR GENERIC (SELECT FROM CUCT)	
	1	TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	20	TAP WIRE, GENERIC	
	1	TAP WIRE (SELECT FROM CUCT)	600020XXXX

DESIGNED	CS	REVIS	REVIS	REVIS
DRAWN	REC	REC	REC	CS
DATE	08/23/01	8/17/04	12/04/06	REC



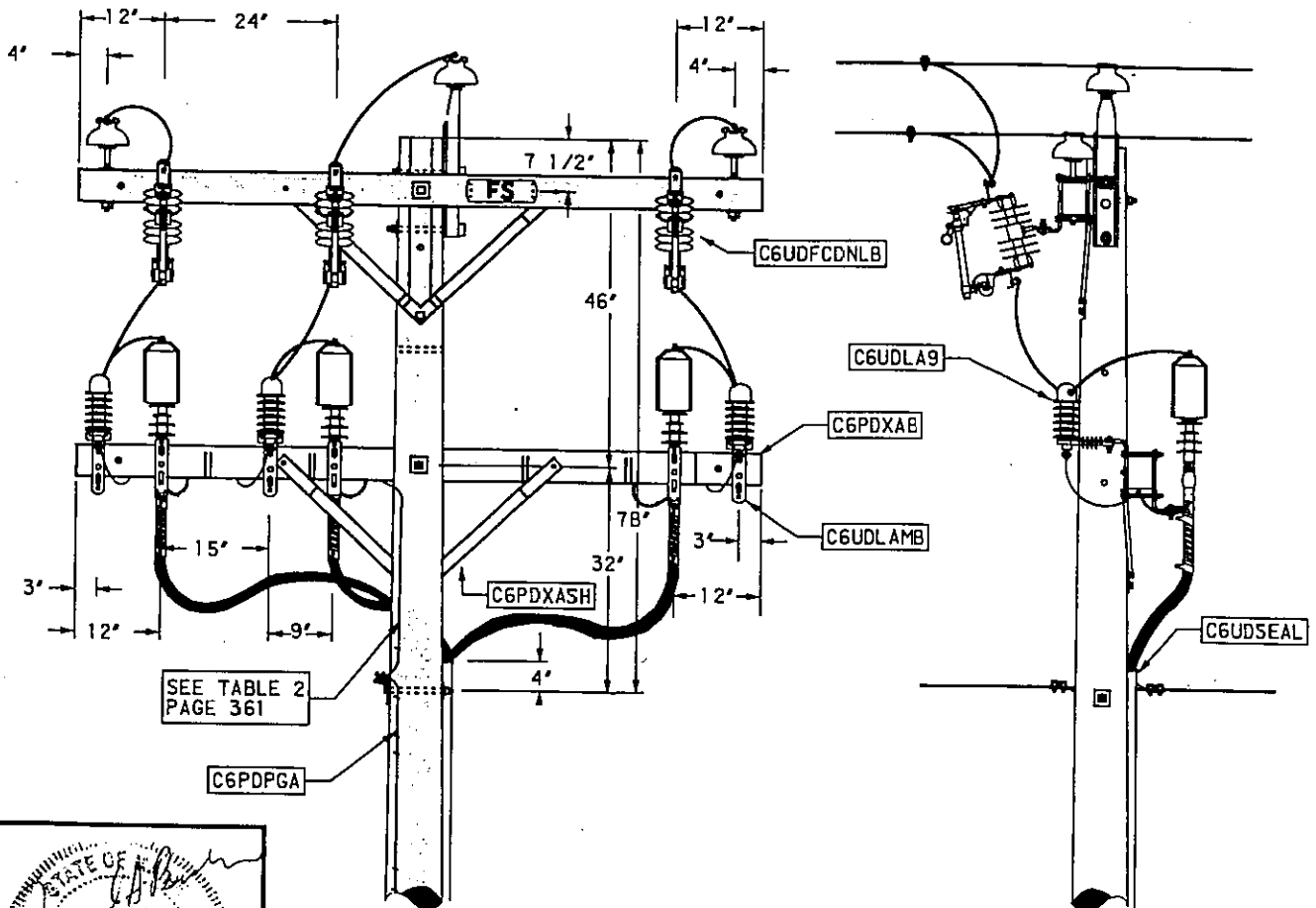
NOTE:

All three phase pad transformers 500 Kva and larger shall be energized and de-energized by use of a three phase switching device. All risers, feeding 3 phase pad transformers which do not have an integral 3 phase load break switch, shall be equipped with a gang operated air break switch.

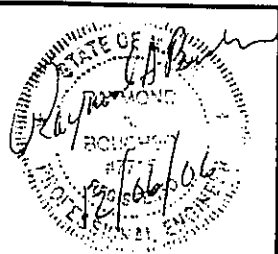


DESIGNED	GRG	REVIS	REVIS	REVIS
DRAWN	GRG	REC	REC	CS
DATE	11/24/93	08/23/01	8/17/04	12/04/06

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



SEE TABLE 2
PAGE 361



Distribution Construction Standards - CMP Co.

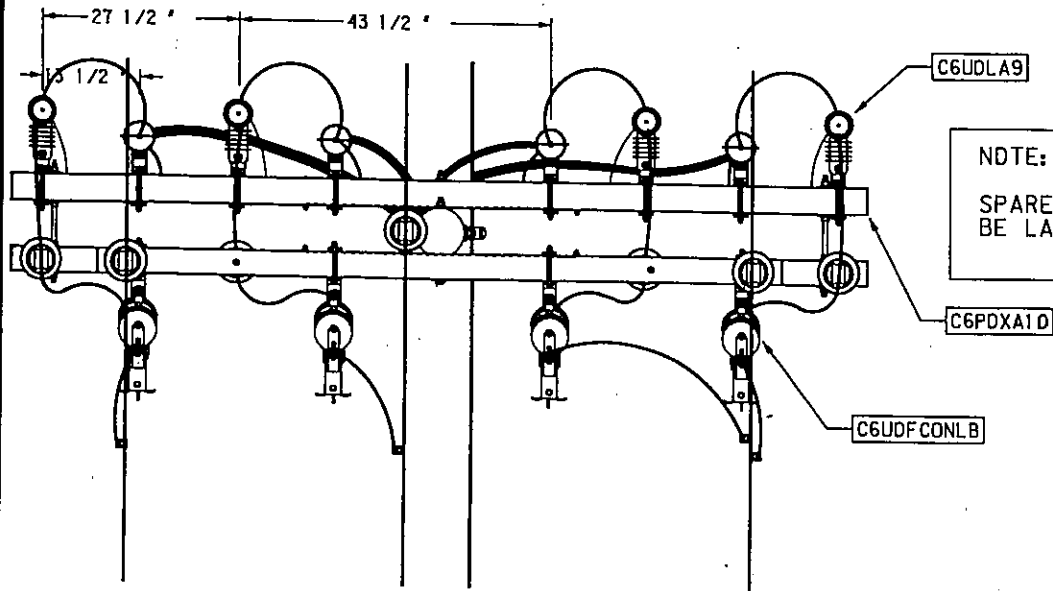
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	7	INSULATOR PIN TYPE GENEBC (SELECT FROM	
		INSULATORS	6000310XXX
C6CDIPIN	6	INSULATOR PINS VARIOUS SIZES LOBBY	
		XARM PINS USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR GALV 5/8	6000274600
C6CDNB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT THRU 5/8 IN ALL LENGTHS	600027208X
		WSH 2 TURN SPR GALV 5/8	6000274600
		WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		BKT NEUTRAL CLAMP STEEL	6000620230
C6CDPC	4	CONNECTOR PRIMARY	
		CONNECTORS	600011XXXX
C6CDPTP	1	POLE TOP PIN 24 INCH STEEL	
		BOLT THRU 5/8 IN ALL LENGTHS	600027208X
		POLE TOP PIN 24X1.3/8 INCH	6000274170
		WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		WASHER GALV TWO TURN SPRING ALL SIZES	6000274XXX
C6PD	1	POLE GENERIC (SELECT FROM CUCT)	
		POLES (SELECT FROM CUCT)	600074XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD GROUND GALV 3/4 X 8 FT	6000251860
		STAPLES GALV F/4 GRD WR	6000274402
		STAPLE F/ 1/2 IN MOLDING	6000274410
		WIRE NO. 4 CU GROUND BARE STRANDED S.D	751182
C6PDXA10	2	XARM 8 PIN B	
		XARM 6 PIN B	6000740540
C6PDXA8	1	XARM 6 PIN B	
		XARM 6 PIN B	6000740510
C6PDXADH	1	XARM DOUBLE HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT SPACE 5/8 IN ALL SIZES	600027217X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		WASHER GALV TWO TURN SPRING ALL SIZES	6000274XXX
C6PDXASH	1	XARM SINGLE HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT THRU 5/8 IN ALL LENGTHS	600027208X
		B LAG GALV FET 1/2 X 4	6000272540
		BRACE XARM 28 IN	6000272670
		WASHER SQUARE GALVANIZED ALL SIZES	60002748XX
		WASHER GALV TWO TURN SPRING ALL SIZES	6000274XXX
C6UDECO	4	UNOERGROUND FUSED CUTOOUT (GENERIC)	
		FUSED CUTOOUT (SELECT FROM CUCT)	6000491XXX
C6UDIOC	4	INST OF 1C CABLE IN CONDUIT PER 50 FT	
C6UDIOR3	1	INST CONDUIT RISER ON POLE 3 1/4-7 IN	
C6UDLA9	4	LIGHTNING ARRESTOR 10KV	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD BHW USE OR RHH	6000207360
		STAPLES GALV F/4 GRD WR	6000274402
		WILDLIFE PROTECTOR	60003128XX
		ARR DIST 10KV	6000490060
		WIRE NO. 4 CU GROUND BARE STRANDED S.O	751182
C6UDLAMB	12	XARM MOUNTING BRACKET	
		BKT EQUIP MTG CROSSARM	6000620100
C6UDSEAL	1	POLYURETHANE SEALANT (PURCHASE LOCALLY)	
		POLY SEALANT PURCHASE LOCALLY	600081063X
C6UDT	4	TERMINATOR GENERIC (SELECT FROM CUCT)	
		TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UDTW	20	TAP WIRE GENEBC	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX

MACRO
C6MU3PR4W1 2

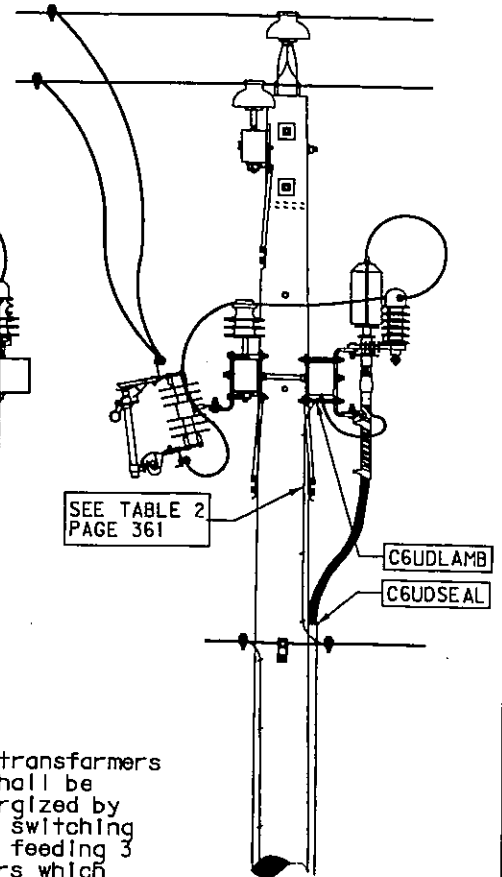
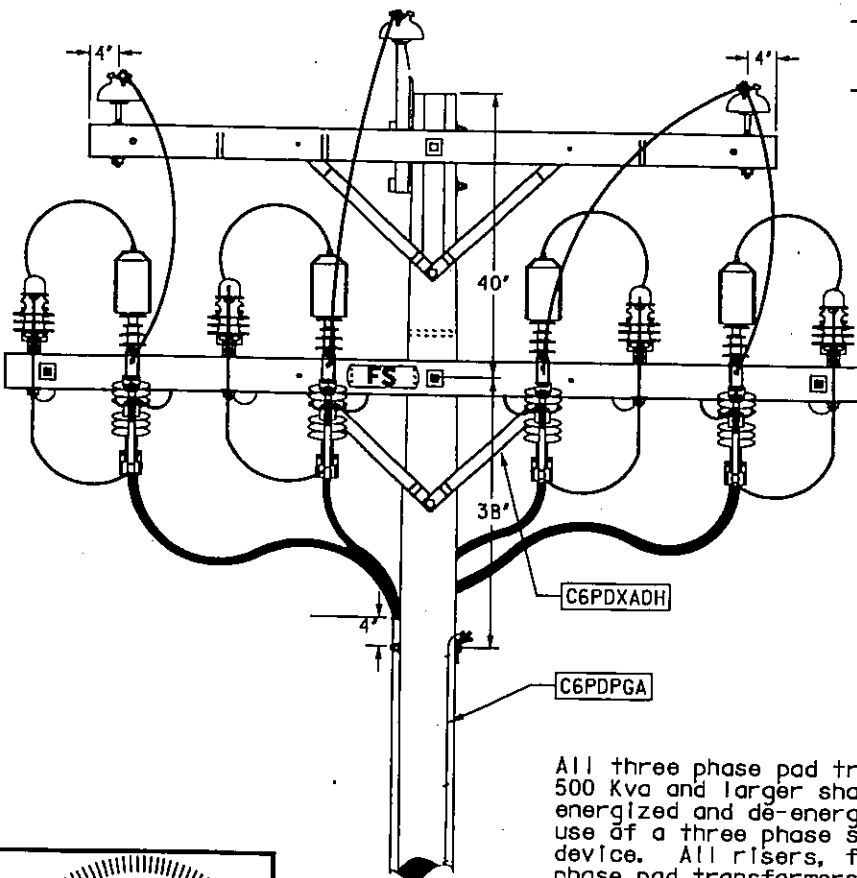
DESCRIPTION
3 PH RISER 4 WIRE 12KV

PAGE
361-13B

NO.	REVISION	DATE	CHK.
1	Chgd to 4 c/cls from 3, run fault indicator	12/28/07	



NOTE:
SPARE CABLE SHALL
BE LABELED SPARE.

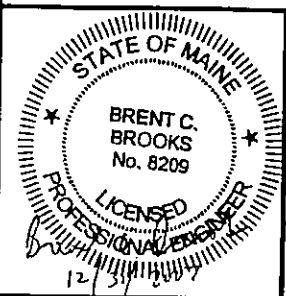


All three phase pad transformers 500 Kva and larger shall be energized and de-energized by use of a three phase switching device. All risers, feeding 3 phase pad transformers which do not have an integral 3 phase load break switch, shall be equipped with a gang operated air break switch.



ORIGINAL	DESIGNED	REDRAWN	DRAWN	GRG	DATE
					5/18/94

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS

Distribution Construction Standards - CMP Co.

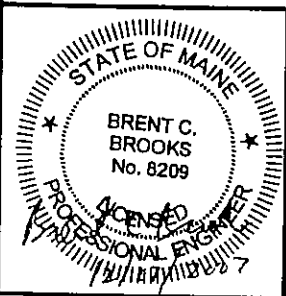
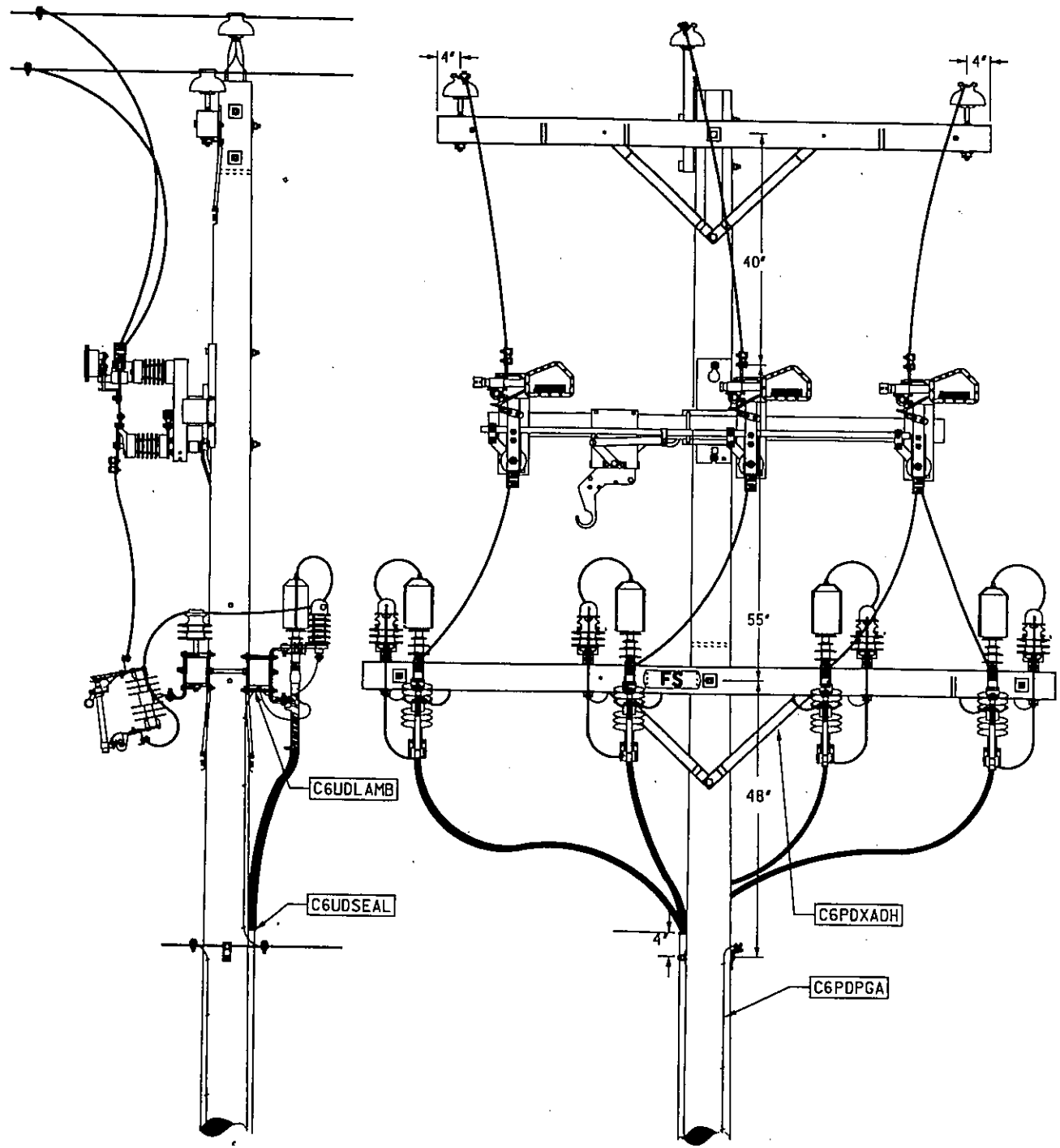
CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	7	INSULATOR PIN TYPE GENERIC.(SELECT FROM INSULATORS	6000310XXX
C6CQIPIN	6	INSULATOR PINS.VARIOUS.SIZES LOBBY	
		XARM.PINS., USE APPROPRIATE SIZE	6000273XXX
		WSH 2 TURN SPR.GALV 5/8	6000274600
C6CONB	1	NEUTRAL BRACKET STEEL	
		TIE WIRE AL LOBBY	6000205XXX
		BOLT, THRU.5/8 IN. ALL LENGTHS	600027208X
		WSH 2 TURN SPR.GALV 5/8	6000274600
		WASHER, SQUARE,GALVANIZED ALL SIZES	60002748XX
		8KT.NEUTRAL CLAMP STEEL	6000620230
C6CQPTP	1	POLE TOP PIN 24 INCH STEEL	
		BOLT, THRU.5/8 IN. ALL LENGTHS	600027208X
		POLE TOP PIN 24X1.3/8 INCH	6000274170
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6CDTC2E2-350	2	TERM CONN 2 EYE BOLTS 2-350KCM CU 2 BOLT	
		CONN TERM.350CU-BAR	6000117976
C6PD	1	POLE GENERIC.(SELECT FROM CUCT)	
		POLES (SLECT FROM CUCT)	600074XXXX
C6PDPGA	1	POLE GROUND ASSEMBLY	
		CONN GRD ROD 3/4 IN	6000112662
		CONNECTORS	600011XXXX
		MOULDING PLAS 1/2 IN GR	6000251680
		ROD.GROUND.GALV 3/4X8FT	6000251860
		STAPLES.GALV.F/4.GRD.WR	6000274402
		STAPLE F/ 1/2IN MOLDING	6000274410
		WIRE NO. 4 CU GROUND BARE STRANDED S.D	751182
C6PDXA10	2	XARM, 8PIN8, 10 FT	
		XARM 8 PIN B	6000740540
C6PDXA8	1	XARM, 6PIN8, 8FT	
		XARM 6PIN 8	6000740510
C6POXAOH	1	XARM, DOUBLE, HARDWARE ONLY	
		8 CARR GALV.3/8 X 5	6000270310
		BOLT, SPACE, 5/8 IN. ALL SIZES	600027217X
		B LAG GALV.FEET 1/2 X 4	6000272540
		BRACE XARM,28 IN	6000272670
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6PDXASH	1	XARM, SINGLE, HARDWARE ONLY	
		B CARR GALV 3/8 X 5	6000270310
		BOLT, THRU.5/8 IN. ALL LENGTHS	600027208X
		B LAG GALV.FEET 1/2 X 4	6000272540
		BRACE XARM,28 IN	6000272670
		WASHER,SQUARE,GALVANIZED ALL SIZES	60002748XX
		WASHER, GALV, TWO TURN SPRING ALL SIZES	6000274XXX
C6UDECO	4	UNDERGROUND FUSED CUTOUL (GENEBIC)	
		FUSED CUTOUL (SELECT FROM CUCT)	6000491XXX
C6UDIOC	4	INST.OF.1C.CABLE IN CONDUIT PER 50FT	
C6UDIOR3	1	INST.CONDUIT RISER ON POLE 3 1/4-7 IN	
C6UDLA9	4	LIGHTNING ARRESTOR 10KV	
		CONNECTORS	600011XXXX
		WIRE #2 CU 7 STRAND SD BHW USE OR RHH	6000207360
		STAPLES.GALV.F/4.GRD.WR	6000274402
		WILDLIFE PROTECTOR	60003128XX
		ARR.DIST 10KV	6000490060
		WIRE NO. 4 CU GROUND BARE STRANDED S.D	751182
C6UDLAM8	12	XARM.MOUNTING BRACKET	
		BKT EQUIP.MTG.CROSSARM	6000620100
C6UDSA815600VH	1	SW A/B 15KV.600A.VERTICAL HOOKSTICK.MECH	
		SWITCH A/B 15KV.600A.110KV/8IL VERT.H/S	6000640558
C6UDSEAI	1	POLYURETHANE SEALANT (PURCHASE LOCALLY)	
		POLY SEALANT.PURCHASE LOCALLY	600081063X
C6UQT	4	TERMINATOR GENERIC. (SELECT FROM CUCT)	
		TERMINATORS (SELECT FROM CUCT)	60002158XX
C6UQTW	21	TAP WIRE, GENERIC	
		TAP WIRE (SELECT FROM CUCT)	600020XXXX

NO.	REVISION	DATE	BY
1	New drawing, riser w/vertical airbreak switch	12/18/07	



ORIGINAL	DESIGNED	REDRAWN	GRG
	DRAWN	DATE	5/18/94

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



Distribution Construction Standards - CMP Co.

CU Number	Quantity - CU/Mat	Description	Material ID
C6CDINSPT	3	INSULATOR.PIN.TYPE GENERIC.(SELECT.FROM	
		INSULATORS	6000310XXX
C6CDIPIN	3	INSULATDR.PINS.VARIOUS.SIZES.LDBBY	
		XARM.PINS_USE APPROPRIATE SIZE	6000273XXX
		WSH.2.TUBN.SPR.GALV.5/8	6000274600
C6CDNB	1	NEUTRAL.BRACKET.STEEL	
		TIE.WIRE.AL.LOBBY	6000205XXX
		BDLT_THRU.5/8.IN.ALL.LENGTHS	600027208X
		WSH.2.TUBN.SPR.GALV.5/8	6000274600
		WASHER,SQUARE,GALVANIZED.ALL.SIZES	60002748XX
		BKT.NEUTRAL.CLAMP.STEEL	6000620230
C6CDPC	4	CONNECTOR.PRIMARY	
		CONNECTORS	600011XXXX
C6CDSCBMT14	1	SPACER.CBL.BKT.MESS.TANGENT.14IN	
		BDLT_THRU.5/8.IN.ALL.LENGTHS	600027208X
		WSH.2.TURN.SPR.GALV.5/8	6000274600
		WSH.ELT.GALV.SQ.2.1/4X3/16	6000274810
		BKT.MESS.TANGENT.14.IN	6000620290
C6CDSCBMT14AS	1	BKT.ANTI-SWAY.14IN.USE.W/CDSCBMT14	
		B.LAG.GALV.FEET.1/2 X 4	6000272540
		BRACKET - ANTI-SWAY 14"	6000620390
C6CDSCBS	1	SPACER.CBL.STIRRUP.USE/W.ANTI-SWAY.BKT	
		BKT.STIRRUP	6000620380
C6CDSCMGA#2	1	SPACER.CBL.MESS.GROUND.ASSY.#2	
		CONNECTORS	600011XXXX
		WIRE.2.CU.7STR.BARE.SD	6000206325
		STAPLES.GALV.F/4.GRD.WR	6000274402
C6CDSCS15T	7	SPACER.CBL.SPACER.W/TIES.F/15KV.CABLE	
		SPACER.W/TIES.F/15KV	6000221520
C6PD	1	POLE.GENERIC.(SELECT.FROM.CUCT)	
		POLES.(SLECT.FROM.CUCT)	600074XXXX
C6PDPGA	1	POLE.GROUND.ASSEMBLY	
		CONN.GRD.ROD.3/4.IN.	6000112662
		CONNECTORS	600011XXXX
		MDULDING.PLAS.1/2.IN.GR	6000251680
		RDD.GROUND.GALV.3/4X8FT	6000251860
		STAPLES.GALV.F/4.GRD.WR	6000274402
		STAPLE.FL.1/2IN.MOLDING	6000274410
		WIRE.NO.4.CU.GRUND.BARE.STRADED.S.D	751182
C6PDXA10	2	XARM.8PINB.10.FT	
		XARM.8.PIN.B	6000740540
C6PDXADH	1	XARM.DOUBLE.HARDWARE.ONLY	
		B.CARR.GALV.3/8 X 5	6000270310
		BOLT_SPACE_5/8.IN.ALL.SIZES	600027217X
		B.LAG.GALV.FEET.1/2 X 4	6000272540
		BRACE.XARM.28.IN.	6000272670
		WASHER,SQUARE,GALVANIZED.ALL.SIZES	80002748XX
		WASHER,GALV.TWO.TURN.SPRING.ALL.SIZES	6000274XXX
C6UDECO	4	UNDERGROUND.FUSED.CUTDUT.(GENERIC)	
		FUSED.CUTDUT.(SELECT.FROM.CUCT)	6000491XXX
C6UDIQC	4	INST.OF.1C.CABLE.IN.CDNDRUIT.PER.50FT	
C6UDIQR3	1	INST.CDNDRUIT.RISER.ON.POLE.3.1/4-7.IN.	
C6UDLA9	4	LIGHTNING.ARRESTDR.10KV	
		CONNECTORS	600011XXXX
		WIRE.#2.CU.7.STRAND.SO.RHW.USE.OR.RHH	6000207360
		STAPLES.GALV.F/4.GRD.WR	6000274402
		WLDLIFE.PRDTECTOR	60003128XX
		ARR.DIST.10KV	6000490060
		WIRE.NO.4.CU.GRUND.BARE.STRADED.S.D	751182
C6UDLAMB	12	XARM.MDUNTING.BRACKET	
		BKT.EDUIP.MTG.CRDSARM	6000620100
C6UDSEAL	1	POLYURETHANE.SEALANT.(PURCHASE.LOCALLY)	
		POLY.SEALANT.PURCHASE.LDCALLY	600061063X
C6UDT	4	TERMINATOR.GENERIC.(SELECT.FROM.CUCT)	
		TERMINATORS.(SELECT.FROM.CUCT)	60002158XX
C6UDTW	20	TAP.WIRE.GENERIC	
		TAP.WIRE.(SELECT.FROM.CUCT)	600020XXXX

MACRO
C6MU3PSC4WR12

DESCRIPTION
3 PH SPACER CABLE 4 WIRE RISER 12KV

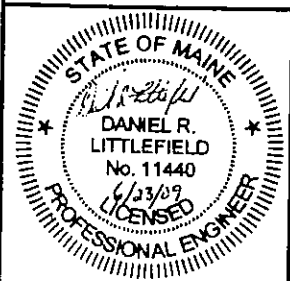
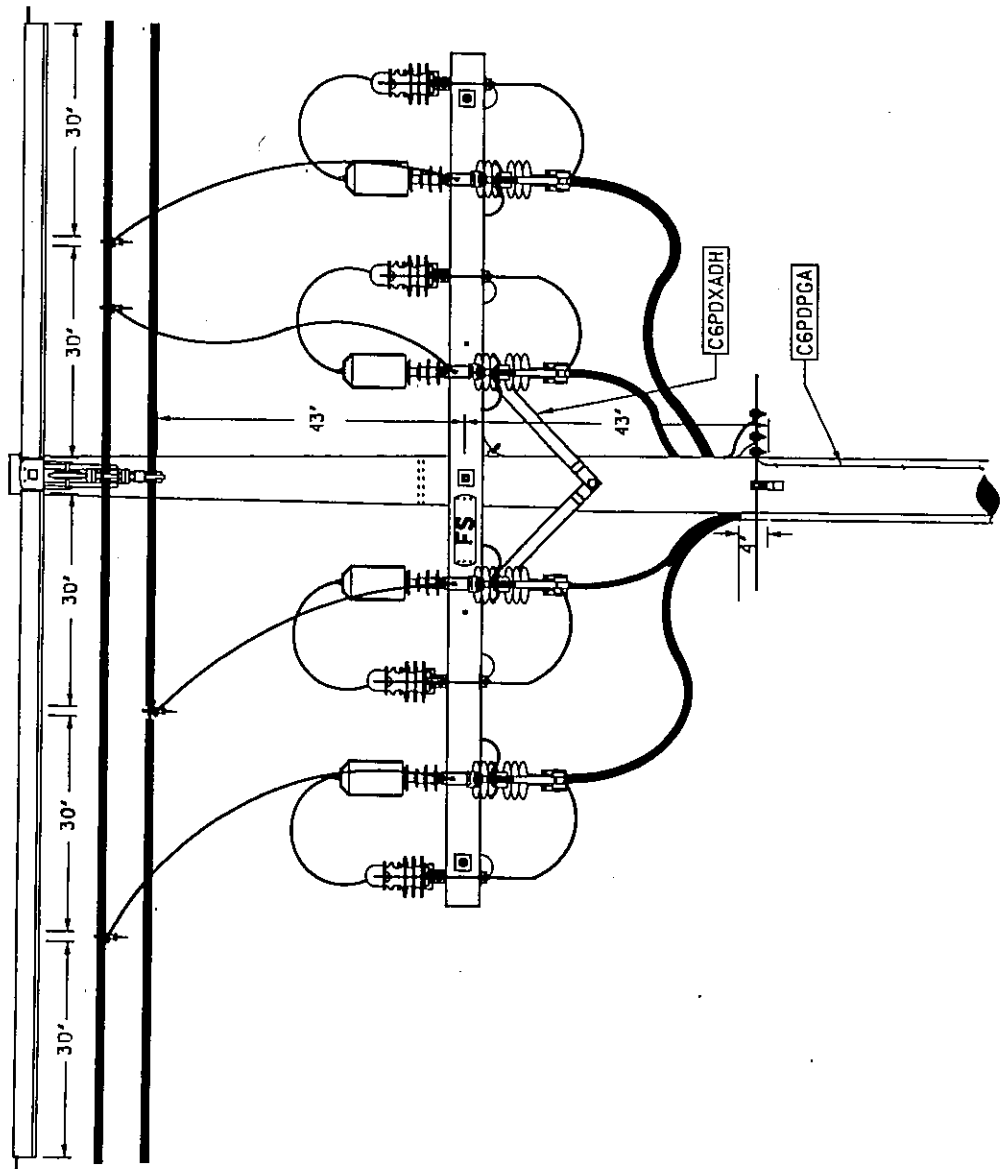
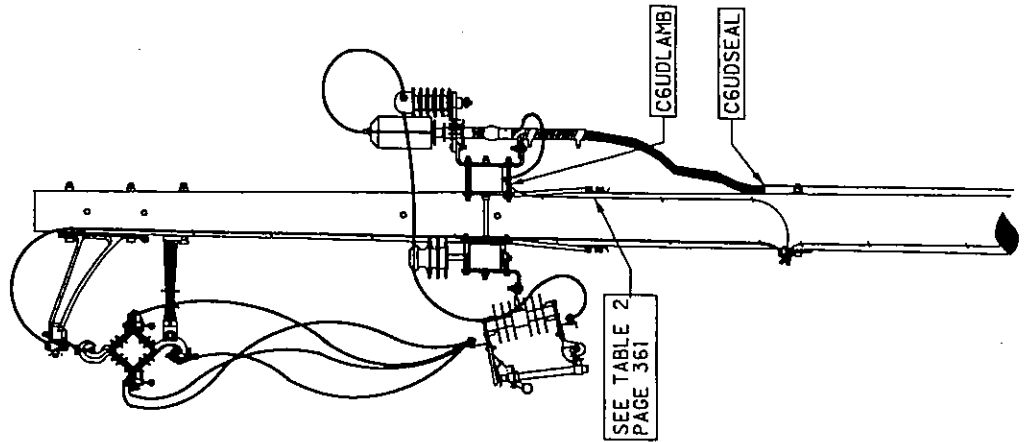
PAGE
361-15B

NO.	REVISION	DATE	CR.



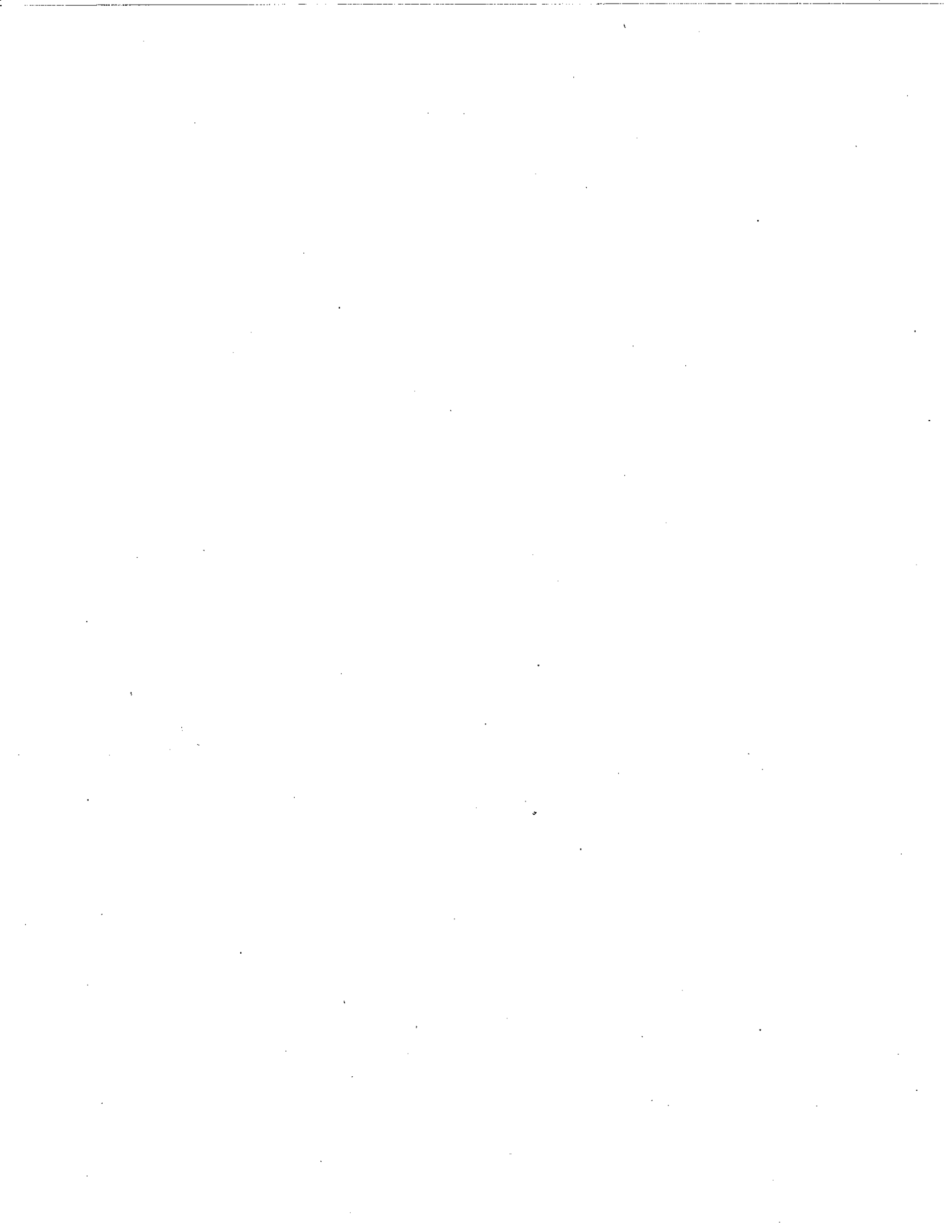
DESIGNED	CS
DRAWN	REC
DATE	05/12/09

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



MAINTENANCE ONLY

When replacing a pole with a URD riser, it may be necessary to extend the riser (Not to be used on new riser).

(MAINTENANCE ONLY)

1. Backing plate, to protect cable from pole. Cut to required length. Run from top of existing conduit to 2 to 3 inches above neutral. Attach with MID* 6000815516 nails.

2' backing plate MID*6000239111
4' backing plate MID*6000239115

2. Splice out existing primary or secondary cables as necessary. Stagger splices to fit in U-Guard.

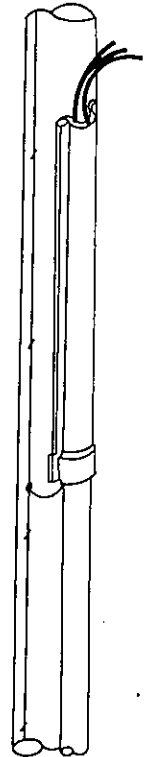
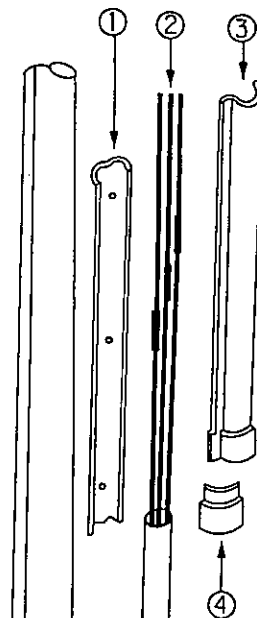
3. U-Guard. Cut to required length to lap existing conduit by 3 inches and extend 2 to 3 inches above neutral. Attach with MID* 6000272555L lag bolts.

2' U-Guard MID*6000239011 for 2' and smaller conduit

4' U-Guard MID*6000239015 for 4' to 5' conduit.

4. MID*6000239025 Adapter 4' conduit to 4' U-Guard only, for use with 4' salvage U-Guard without bell end on 4' conduit. Not required with smaller conduit.

5. Connect existing conduit ground to pole ground with appropriate connector.

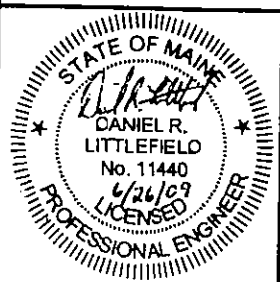


NO.	REVISION	DATE	CHK.
1	Chngd page * from 316-14 to 361-15	11/19/07	
2	Chngd page * from 361-15 to 361-16	06/25/09	



DESIGNED	EVG
DRAWN	HEP
DATE	06/21/85

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





URD CABLE INSTALLATION

Preferred location for URD cable installation is in the public way near the edge of said public way.

Central Maine Power Company recognizes three (3) different methods of Joint URD cable installation:

- (1) SEPARATE TRENCH: Installation of power cables in one trench and communication cables in a second parallel trench.
- (2) HORIZONTAL SEPARATION: Installation of both cables in the same trench (minimum width of 24"). Power cables are placed on one side of the trench and the communication cables are placed 12" away at the same depth on the other side of the trench.
- (3) VERTICAL SEPARATION: Primary cable SHALL be buried a minimum of 36" below finish grade. Secondary or Service cable and communication cables may be buried in the same trench at the same depth without a required clearance or separation between the cables at a minimum of 12" above the primary.

URD CABLE INSTALLED UNDER TRANSMISSION LINES

All URD cable installed under or running parallel to transmission right-of-ways shall be placed in galvanized steel or heavy wall nonmetallic conduit (schedule 40 PVC or heavier). The conduit shall extend the full width of the right-of-way and shall be placed at least 30" below grade. The conduit will be at the customer's expense.

URD CABLE INSTALLATION UNDER PAVED AREAS

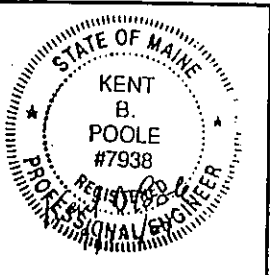
Conduit shall be used under public streets or ways and paved areas. Conduit shall be galvanized steel or heavy wall nonmetallic conduit (schedule 40 PVC or heavier). The conduit shall be placed at least 36" below grade and shall extend at least two (2) feet beyond the street limits or paved areas.

Conduit shall be used under private driveways and walks. The conduit shall be placed at least 30" below grade and shall extend at least two (2) feet beyond paved boundaries.

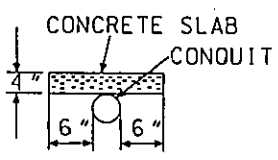
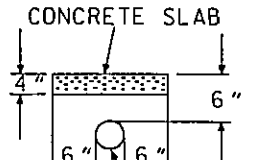
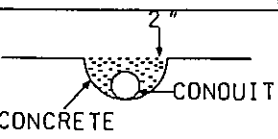
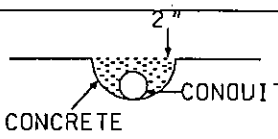
DESIGNED	REVISOR	REVISION
DRAWN	CS	
DATE	REC	
		08/23/01

DESIGNED	EVG
DRAWN	SGD
DATE	12/11/87

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



PAGE 363-1	DESCRIPTION MINIMUM COVER REQUIREMENTS 0 - 600 VOLTS	MACRO
----------------------	--	--------------

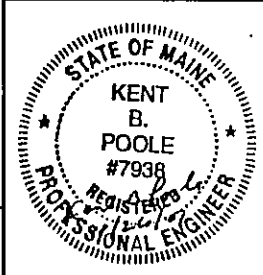
MINIMUM COVER REQUIREMENTS 0 - 600 VOLTS			
WIRING METHOD LOCATION	DIRECT BURIAL CABLES	RIGID METAL CONDUIT	RIGID NONMETALLIC CONDUIT (SCHEDULE 40 MIN)
ALL LOCATIONS NOT SPECIFIED BELOW	24"	6"	18"
IN TRENCH BELOW 2" THICK CONCRETE OR EQUIVALENT	DIRECT BURIAL NOT PERMITTED SEE CONDUIT	6"	12"
UNDER A BUILDING	(IN RACEWAY ONLY EXTENDED BEYOND THE OUTSIDE WALL)		
UNDER MINIMUM OF 4" THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB SHOULD NO BE LESS THAN 6" EITHER SIDE OF CONDUIT	DIRECT BURIAL NOT PERMITTED SEE CONDUIT		
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, PARKING LOTS, AND TRANSMISSION LINES	DIRECT BURIAL NOT PERMITTED SEE CONDUIT	24"	24"
IN SOLID ROCK WHERE COVERED BY MINIMUM OF 2" CONCRETE, EXTENDING TO THE SURFACE	DIRECT BURIAL NOT PERMITTED SEE CONDUIT		

- NOTES**
1. Direct buried cable shall be protected by conduit or enclosures to a minimum depth of 18 inches at riser pole, transformer pads, and service pedestals.
 2. Each conduit shall contain all conductors of the same circuit including the neutral.
 3. Conductors entering a building shall be protected to the point of entrance.
 4. The cable or conductors should be buried according to the requirements even though the surface may not be at finished grade, both at the time of installation and subsequent thereto.
 5. The separation between a conduit system and other underground structures and/or utilities paralleling it should be as large as necessary to permit maintenance of the system without damage to the paralleling structures. In no case should this distance be less than one foot.
 6. Where a conduit run crosses another utility, it shall be designed to have suitable support on each side of the utility to prevent transferring any direct load onto the utility. In no case should this distance be less than one foot.

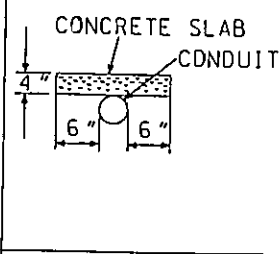
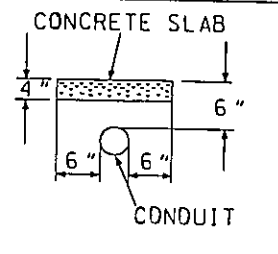
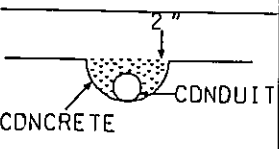
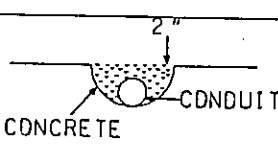
DESIGNED: CS
DRAWN: REC
DATE: 10/01/01

DESIGNED: HEP
DRAWN: GRC
DATE: 06/28/91

BE REVISIONS ON THE
CADD SYSTEM ONLY



MINIMUM COVER REQUIREMENTS 600 - 22 KV

WIRING METHOD / LOCATION	DIRECT BURIAL CABLES	RIDID METAL CONDUIT	RIDID NONMETALLIC CONDUIT (SCHEDULE 40 MIN)
ALL LOCATIONS NOT SPECIFIED BELDW	30"	6"	18"
IN TRENCH BELDW 2" THICK CONCRETE DR EQUIVALENT	DIRECT BURIAL NOT PERMITTED SEE CONDUIT	6"	12"
UNDER A BUILDING	(IN RACEWAY ONLY EXTENDED BEYOND THE OUTSIDE WALL)		
UNDER MINIMUM DF 4" THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB SHOULD ND BE LESS THAN 6" EITHER SIDE OF CONDUIT	DIRECT BURIAL NOT PERMITTED SEE CONDUIT		
UNDER STREETS, HIGHWAYS, ROADS ALLEYS, DRIVEWAYS, PARKING LOTS, AND TRANSMISSION LINES	DIRECT BURIAL NOT PERMITTED SEE CONDUIT	30"	30"
IN SOLID ROCK WHERE COVERED BY MINIMUM OF 2" CONCRETE, EXTENDING TO THE SURFACE	DIRECT BURIAL NOT PERMITTED SEE CONDUIT		

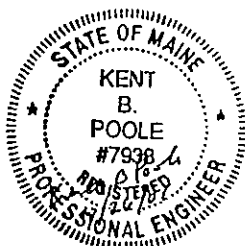
NOTES

1. Direct buried cable shall be protected by conduit or enclosures to a minimum depth of 30 inches at riser pole, transformer pads, and service pedestals.
2. Each conduit shall contain all conductors of the same circuit including the neutral.
3. Conductors entering a building shall be protected to the point of entrance.
4. The cable or conductors should be buried according to the requirements even though the surface may not be at finished grade, both at the time of installation and subsequent thereto.
5. The separation between a conduit system and other underground structures and/or utilities paralleling it should be as large as necessary to permit maintenance of the system without damage to the paralleling structures. In no case should this distance be less than one foot.
6. Where a conduit run crosses another utility, it shall be designed to have suitable support on each side of the utility to prevent transferring any direct load onto the utility. In no case should this distance be less than one foot.

DESIGNED	CS	REVISOR	
DRAWN	REC	DATE	10/01/01
DATE			

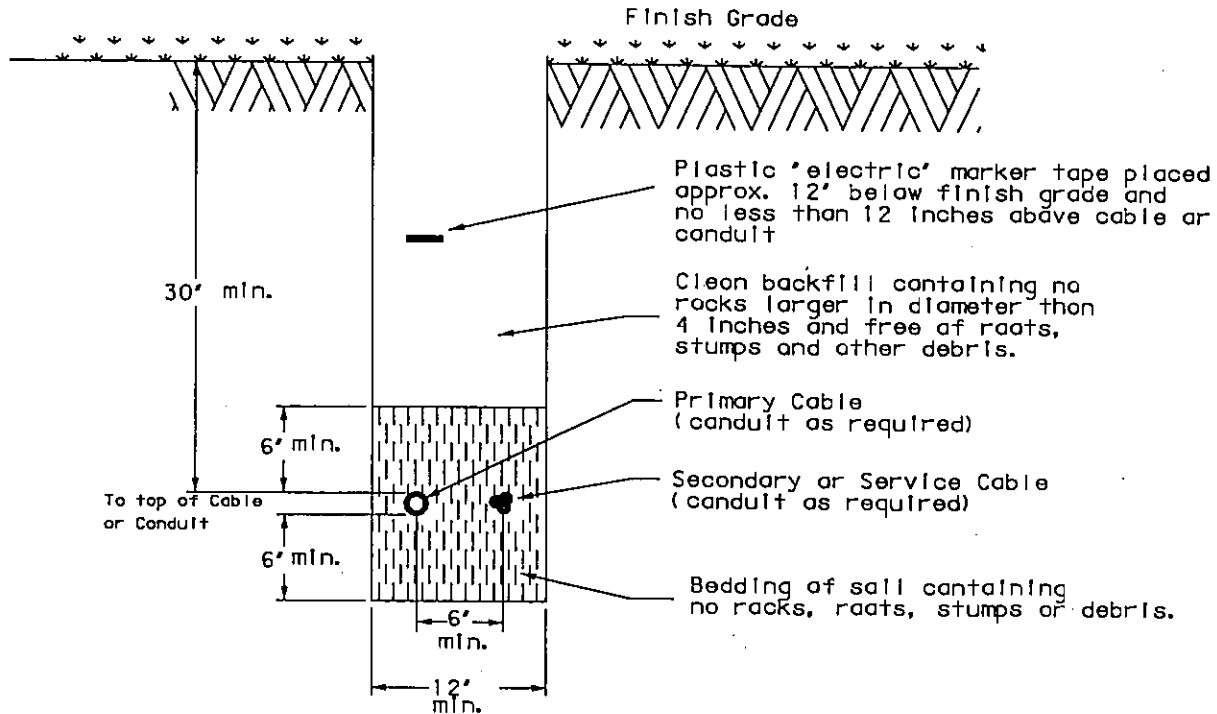
DESIGNED	HEP	REVISOR	
DRAWN	GRC	DATE	06/28/91
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

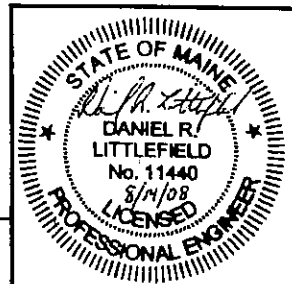
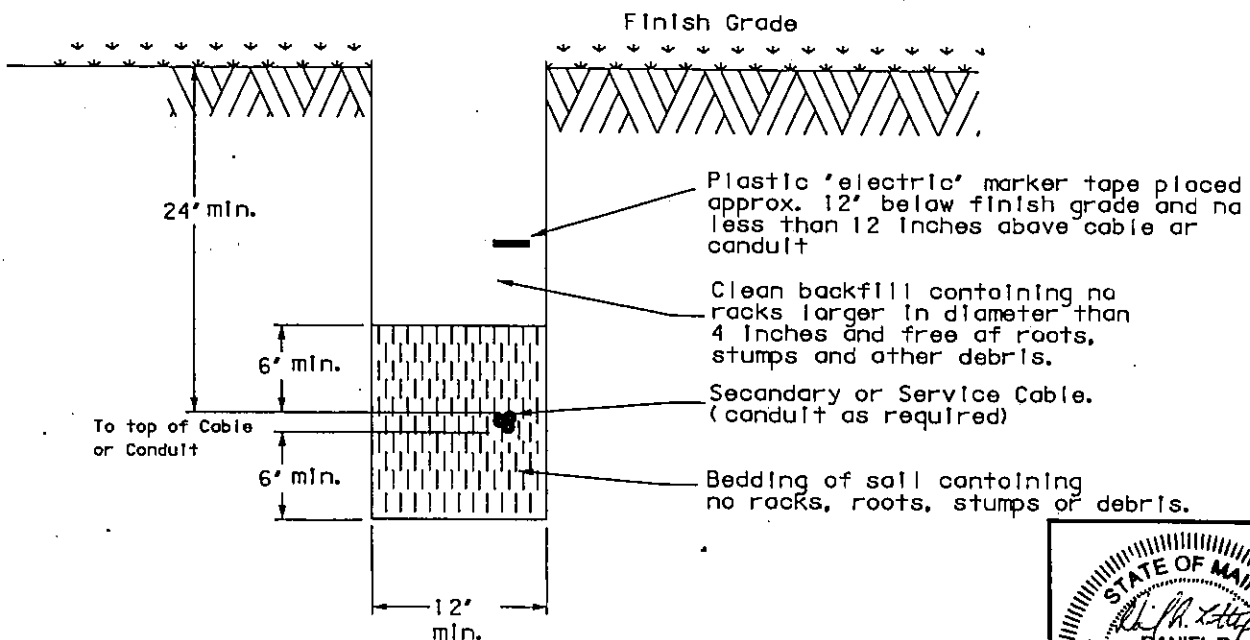


UNDERGROUND CABLE INSTALLATION
TRENCH OCCUPIED BY CENTRAL MAINE POWER COMPANY ONLY

Primary Cable Installation



Secondary or Service Cable Installation



BE REVISED UN THE
CADD SYSTEM ONLY

DRAWN
DATE 12/27/95

GRG

ENERGY

FAST

NO.	REVISION	DATE	BY	CHK.
1	CORRECTED LABELS & DIMENSIONS	07/30/08		

UNDERGROUND CABLE INSTALLATION

JOINTLY USED TRENCH - HORIZONTAL SEPARATION

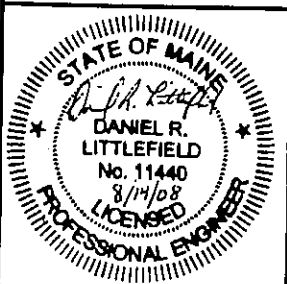
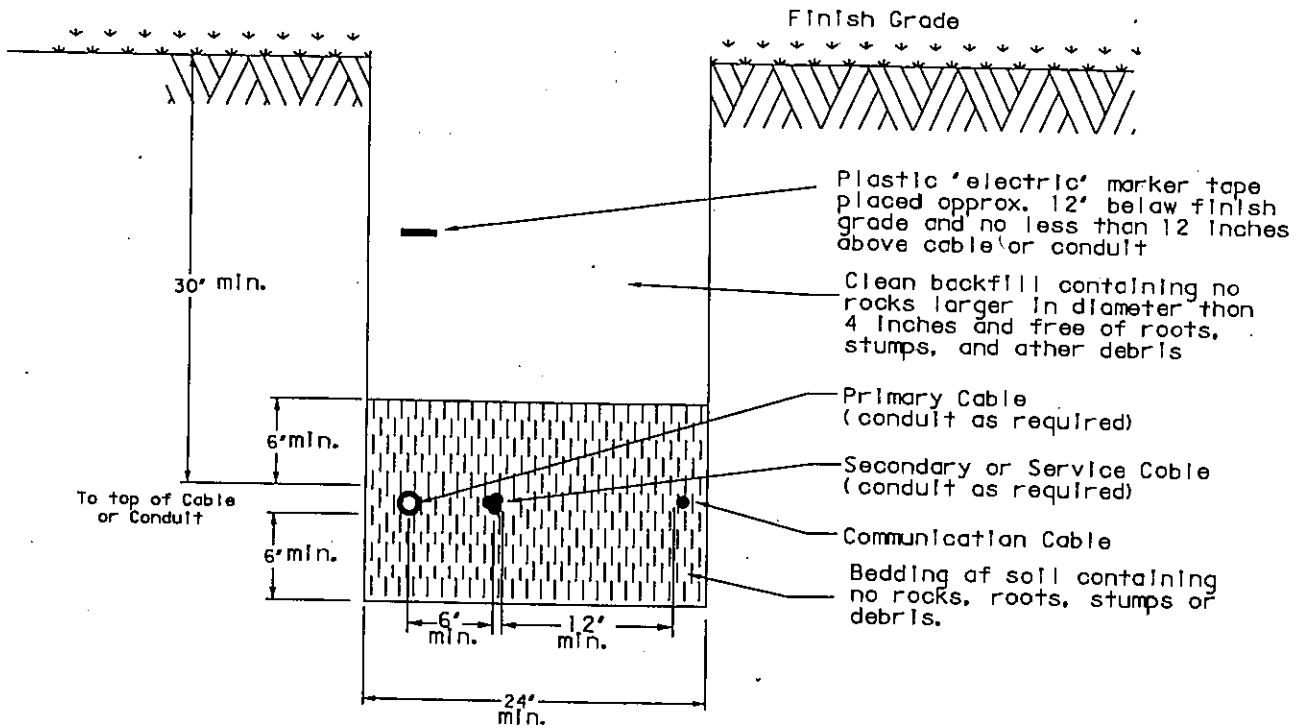
IN SITUATIONS WHERE THE TRENCH IS TO BE SHARED
 AGREEMENT MUST BE OBTAINED BETWEEN JOINT USERS

Trench shall be a minimum of 24" wide



ORIGINAL	
DESIGNED	
DRAWN	
DATE	

THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY

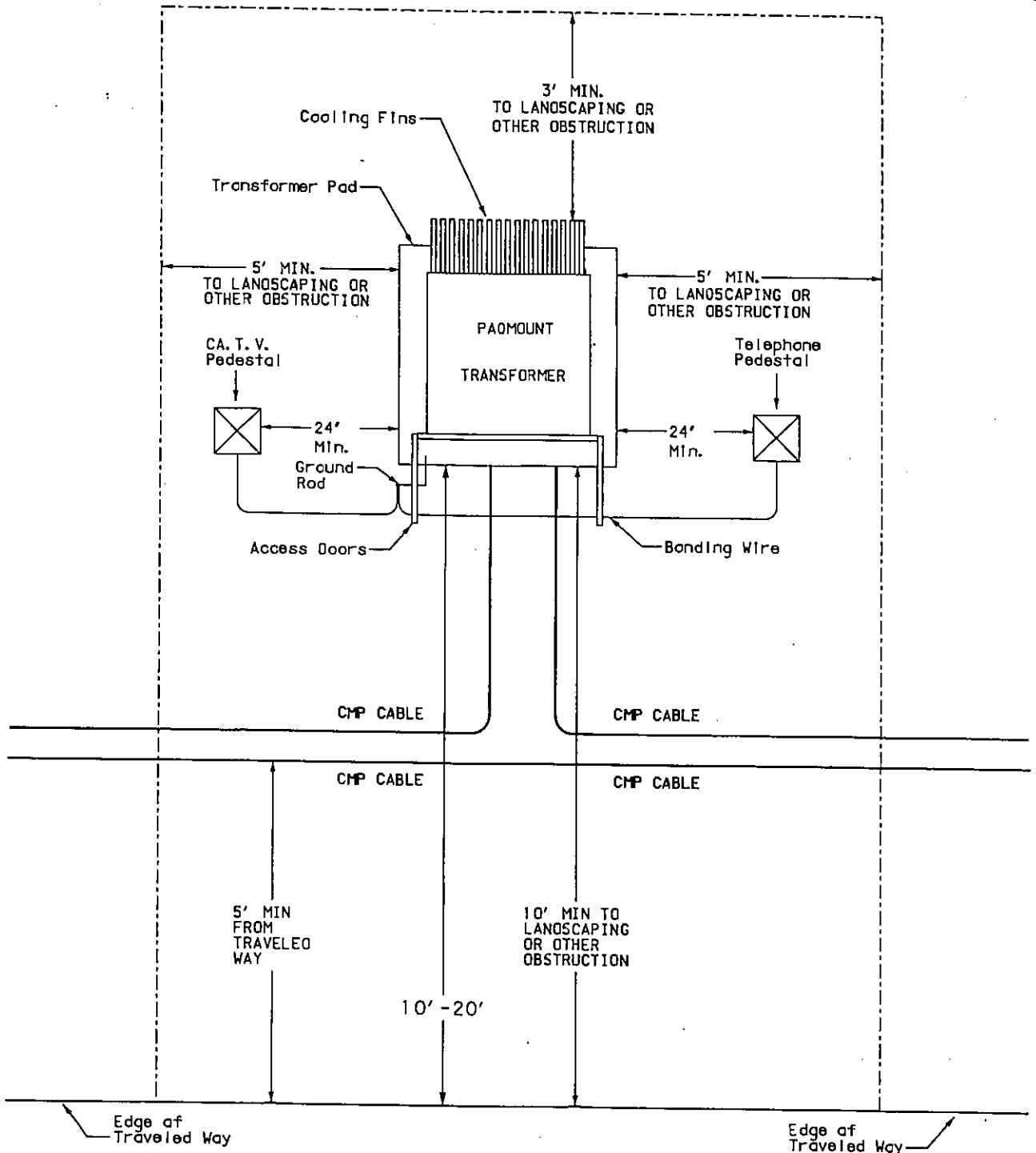


NO.	REVISION	DATE	CR.
1	Added dimensions, changed title	06/04/08	

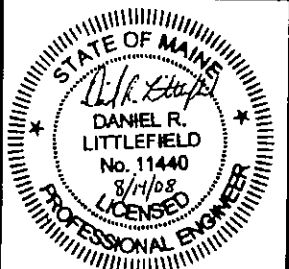


ORIGINAL	REDESIGNED	DATE

**THIS DRAWING SHALL
 BE REVISED ON THE
 CADD SYSTEM ONLY**

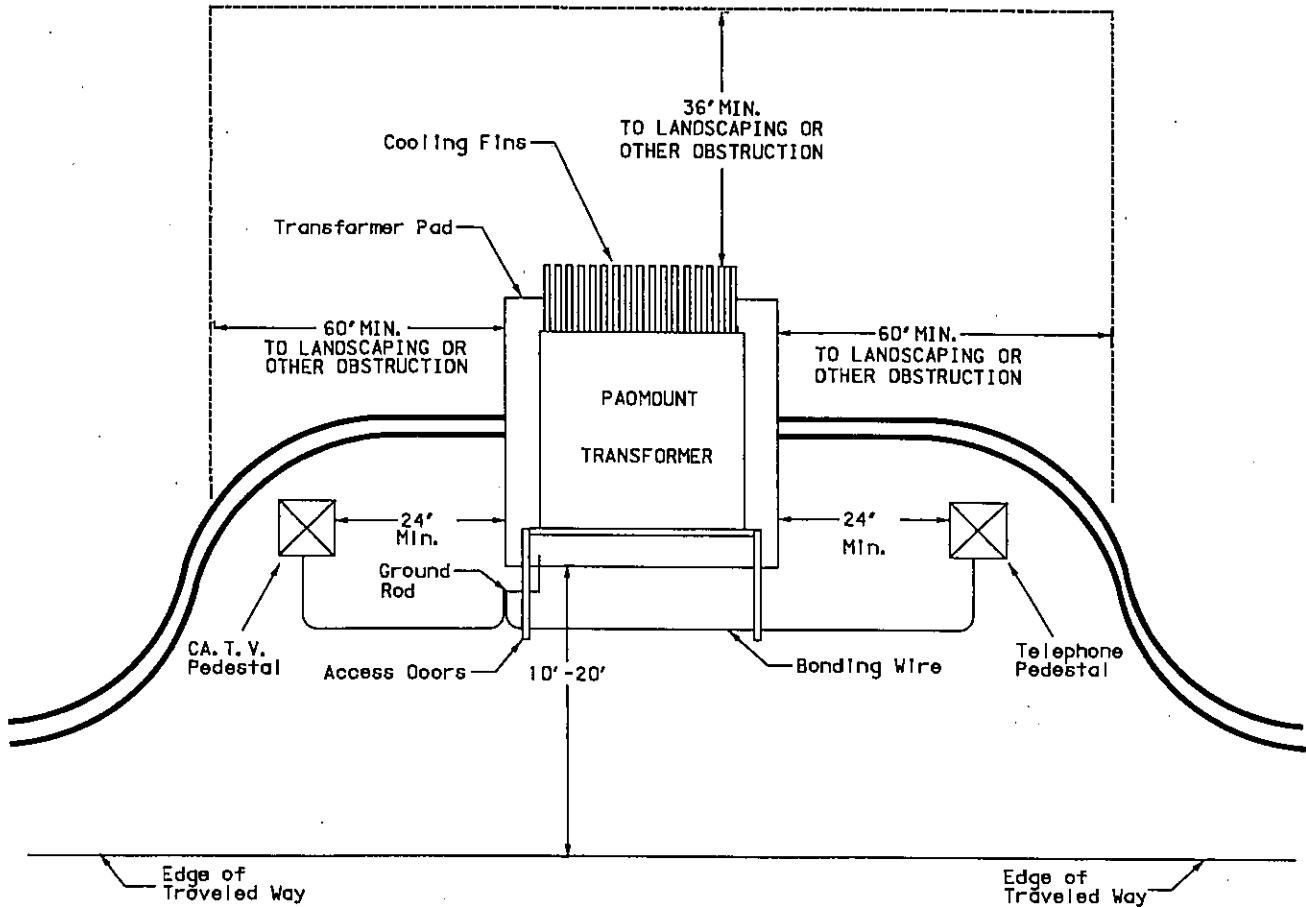


Preferred layout of a padmount transformer and direct buried underground distribution system. Prior CMP approval is required for any deviation from this layout.



At each transformer location a level 10 foot by 10 foot (minimum) area will be provided. The elevation of this area shall be sufficiently high to always be above the highest expected water level and at or above the top of any nearby ditch slope. The transformer foundation shall be installed so the top of the foundation is 6 inches above this elevation. The transformer foundation shall be installed no more than 20 feet from a road surface.





Preferred layout of a pad mounted transformer and continuous conduit underground distribution system. Prior CMP approval is required for any deviation from this layout.

Both cables shall be run through the pad unless otherwise directed by the Distribution Field Engineer.

At each transformer location a level 10 foot by 10 foot (minimum) area will be provided. The elevation of this area shall be sufficiently high to always be above the highest expected water level and at or above the top of any nearby ditch slope. The transformer foundation shall be installed so the top of the foundation is 6 inches above this elevation. The transformer foundation shall be installed no more than 20 feet from a road surface.

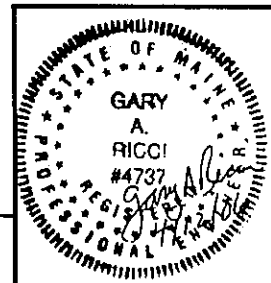
DESIGNED	
DRAWN	
DATE	



last

DESIGNED	CS
DRAWN	REC
DATE	02/24/06

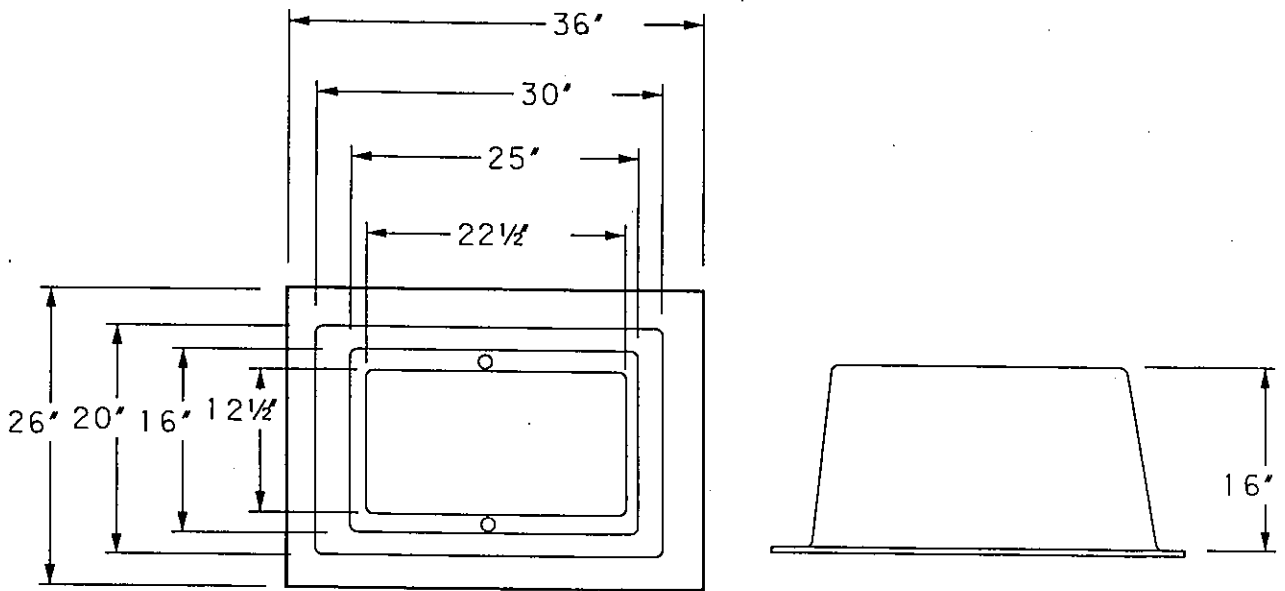
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



FIBERGLASS HANDHOLE W/COVER

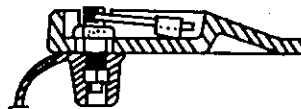
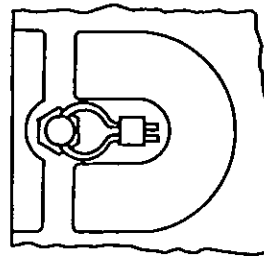
1. The fiberglass handhole (MID#6000621771) shall be used for secondary URD cable splicing.
2. The handhole shall be installed so that the cover is level with the finish grade.
3. The fiberglass cover requires 2 one time locks (MID#6000821013)

DIMENSIONS



LOCKING METHOD

CRIMP OR FARGO TYPE

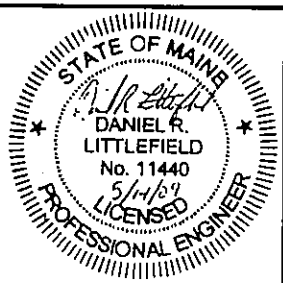


NO.	REVISION	DATE	BY
1	Corrected spelling error	05/12/09	



DESIGNED	EVG
DRAWN	RCE
DATE	07/01/79

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



TRANSFORMER INSTALLATIONS

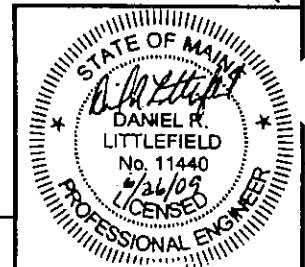
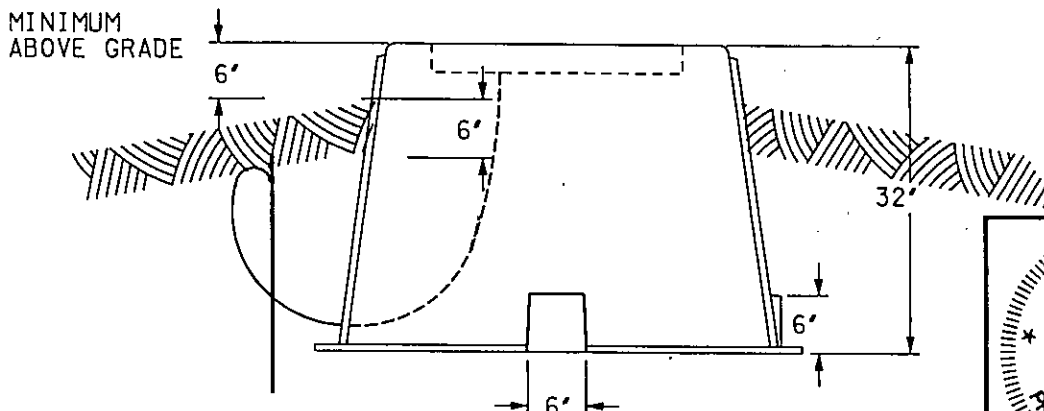
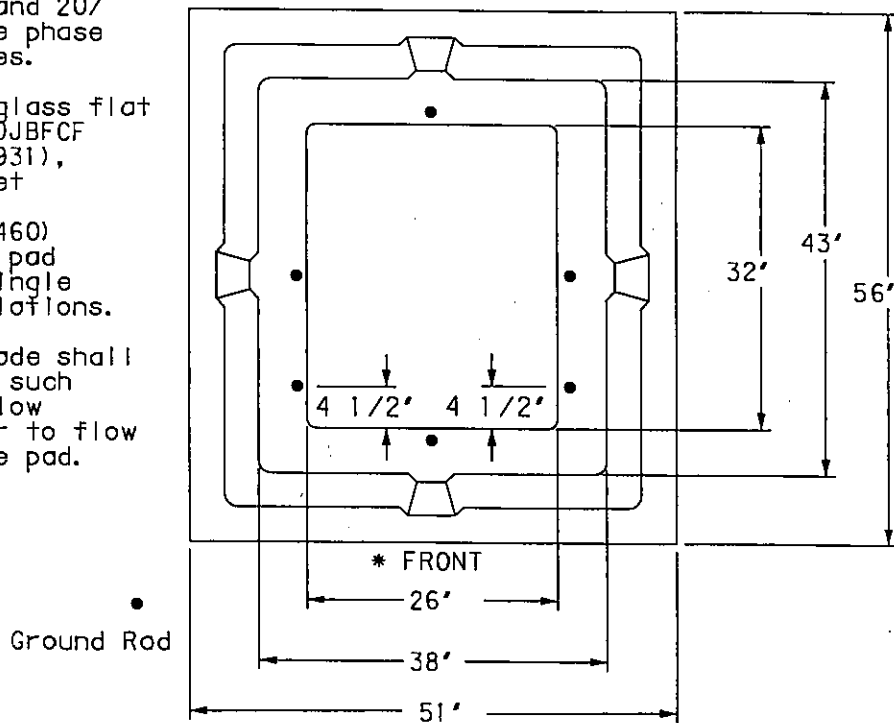
1. The fiberglass 43' x 38' x 32' pad CU C6TDFB (MIO*6000673961) is suitable for both 7.2/12.47kV and 20/34.5kv single phase transformer installations.
2. * FRONT denotes the side on which the access doors are located. The base shall be located so the FRONT is accessible by truck and suitably protected from plow and traffic damage.
3. Before installing or requiring any active drainage structure (e.g., drain pipe) into the foundation or pad, the contractor, CMP Line Supervisor, or CMP Distribution Engineer must contact Central Maine Power Company's Environmental Services Department at 623-3521 ext. 3479 to request a site inspection.
4. Finish grade shall be graded in such manner to allow surface water to flow away from the pad.
5. A 3/4" x 8' galvanized ground rod is to be installed 6' in front of the left corner of the transformer foundation. The top of the ground rod shall be 6' below final grade.

PRIMARY JUNCTION BOX

1. The fiberglass pad CU C6U0JBFP (MIO*6000673961) is suitable for both 7.2/12.47kV and 20/34.5kV single phase junction boxes.

2. Use fiberglass flat cover CU C6UDJBFCF (MIO*6000673931), or URO cabinet CU C6UDCUT1 (MIO*6000621460) to cover the pad opening on single phase installations.

3. Finish grade shall be graded in such manner to allow surface water to flow away from the pad.



DO NOT REVISION UN THE
CADD SYSTEM ONLY

DRAWN	GRC
DATE	11/14/94

Eng
Fast

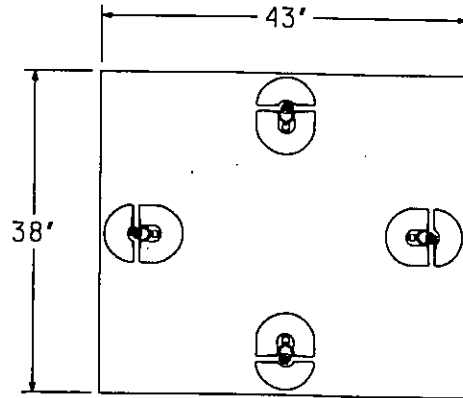
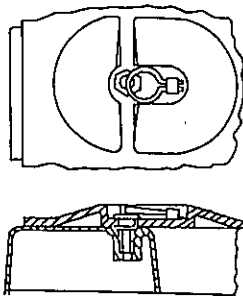
2/Chgd Pr1 Jct Box note 2
09/26/08

NO.	REVISION	DATE	CK.
1	Rem. domed cover from note and drwg	09/26/08	

PRIMARY JUNCTION BOX FIBERGLASS COVER

1. The fiberglass pad CU C6UDJBFP (MID*6000673961) is suitable for both 7.2/12.47kv and 20/34.5kv single phase junction boxes.
2. Use fiberglass flat cover CU C6UDJBFCF (MID*6000673931)
3. Fiberglass flat cover CU C6UDJBFCF (MID*6000673931) requires a minimum of 2 one time locks (MID*6000821013) installed opposite each other.

FARGO TYPE LOCK

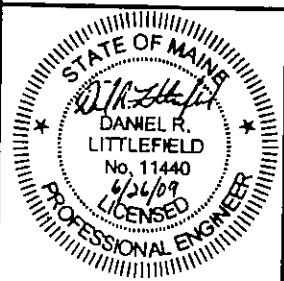


MID*6000673931

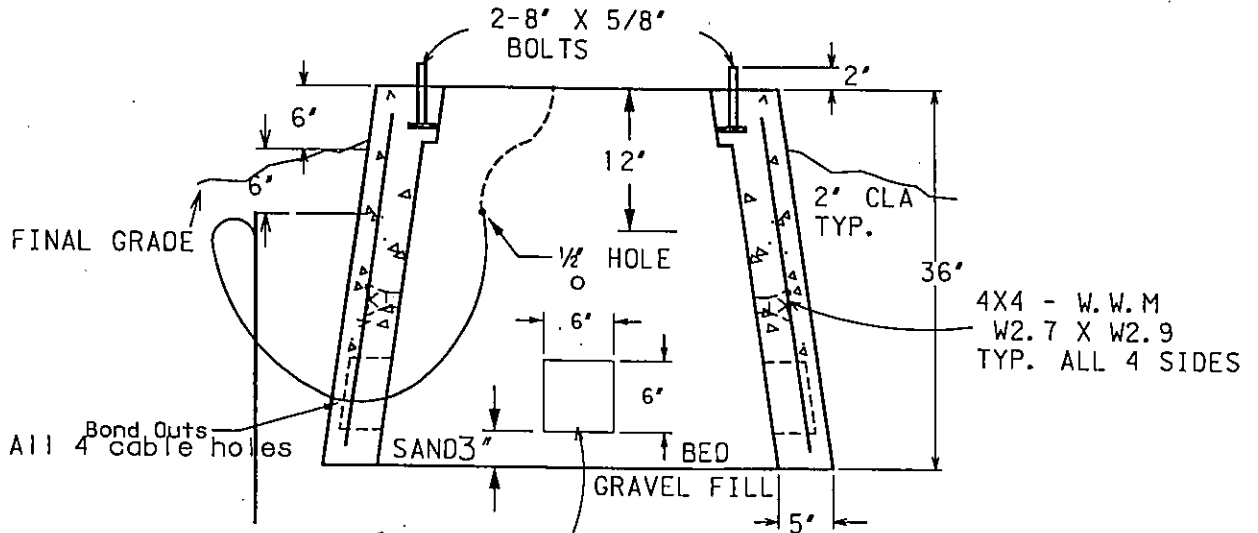


DESIGNED	CS
DRAWN	REC
DATE	08/23/01

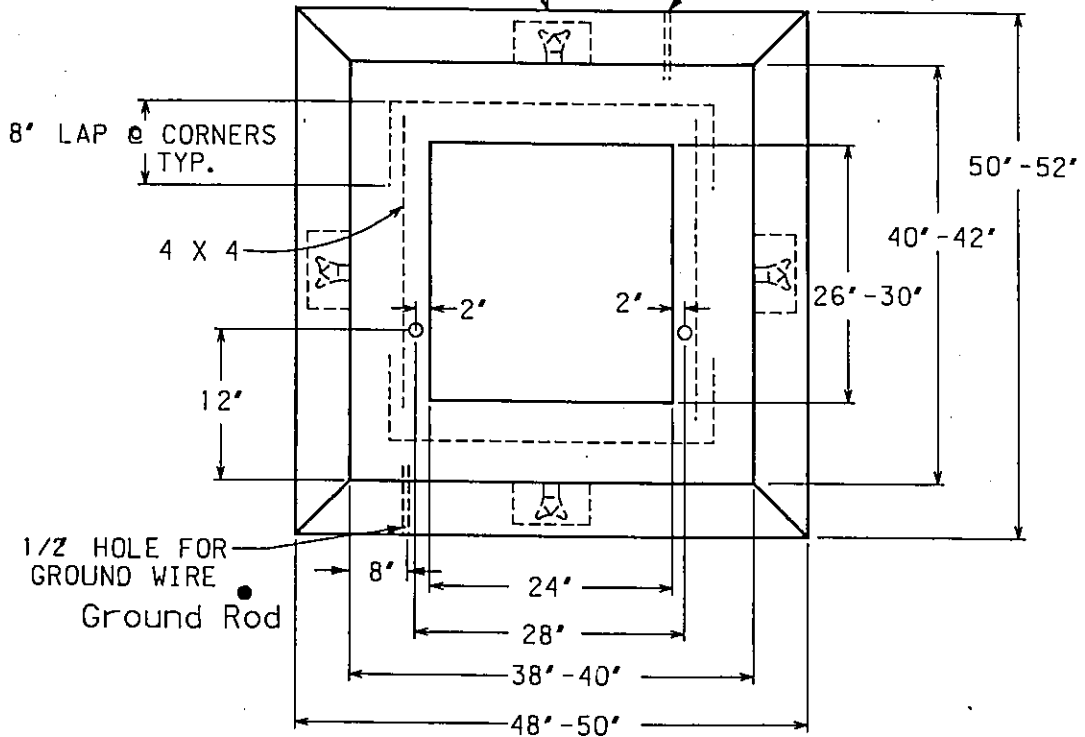
THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NO.	REVISION	DATE	CL.
1	Removed Note 6	08/22/08	



CABLE HOLE (TYP) 1/2" HOLE FOR GROUND WIRE

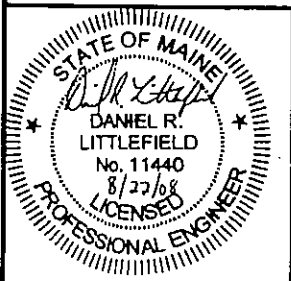


* FRONT



DESIGNED	ORIGINAL
DRAWN	GRC
DATE	12/3/91

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



NOTES:

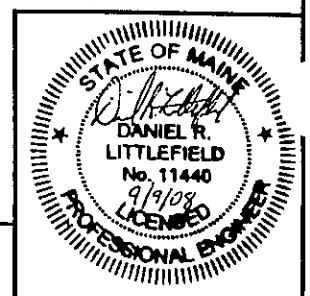
1. * FRONT denotes the side on which the access doors are located. The concrete base shall be set on a suitable gravel base and located so the FRONT is accessible by truck and suitably protected from plow and traffic damage.
2. Before installing or requiring any active drainage structure (e.g., drain pipe) into the foundation or pad, the contractor, CMP Line Supervisor, or CMP Distribution Engineer must contact Central Maine Power Company's Environmental Services Department at 623-3521 ext. 3479 to request a site inspection.
3. Finish grade shall be graded in such manner to allow surface water to flow away from the pad.
4. Provide 8' x 24' cable holes (bond outs) 8' up the wall from the base. Locate one cable hole per wall, more if necessary. Line up cable holes with trench.
5. Conduits entering concrete structures shall be set back from the inside wall 1 to 2 inches and the space within the knockout surrounding the conduits completely filled with mortar to prevent soil from entering structure. Inside the structure the mortar shall be finished and beveled from the conduit ends to the inside wall face to cover and smooth the edges of the knockouts.
6. A 3/4" x 8' galvanized ground rod is to be installed six inches in front of the left FRONT corner of the foundation. The top of the ground rod is to be 6 inches below final grade.
7. A ground wire shall be installed from the ground rod through the cable hole at the bottom of the pad. 10 feet of ground wire shall be provided so that it can be installed through the two grounding lugs and connected to the neutral spade.
8. Concrete compressive strength shall be 4000 PSI @ 28 days. For cast-in-place early high strength may be used with a minimum of seven day cure time.
9. Reinforcing steel to have: FY = 60 KSI.
10. For precast units: The precast supplier shall provide lifting lugs in the slab (foundation) and base; the precast supplier shall assemble the slab to the base prior to shipping to the site to ensure that the slab and base fit properly (with no rocking of the slab evident).
11. A 16' x 24' x 1/4" galvanized steel plate to cover a portion of the cable hole when the transformer does not completely cover it. Cut the steel plate to fit, if necessary.
 - a. 7-#5 Rebar evenly spaced each way top to bottom.
 - b. 2-#4 Corner diagonal rebar 2'-0" long top and bottom.
 - c. 4' x 4' x 1/2" angle 6' long with 2-3/4" diameter expansion anchors typical - 4 places (two piece precast only).
 - d. Chamfer typical
 - e. 2' Concrete cover over top rebar.
 - f. 3' Concrete cover over bottom rebar.
 - g. #5 L-Bar @ 12" (cast-in-place only)
 - h. 16' x 24' x 1/4" galvanized steel plate. MID#6000621790
 - i. #5 Rebar on 12" centers.
 - j. Pulling eye Insert, for use with 3/4" national course thread eye-bolt, (Richmond LCB-1 or equivalent). Located opposite each cable hole and 2' (two feet) from the bottom.
 - k. All rebar ends to be covered by 1' of concrete, minimum.

CADD SYSTEM ONLY

DRAWN DATE 1/8/92

ENGINEER

PROFESSIONAL ENGINEER

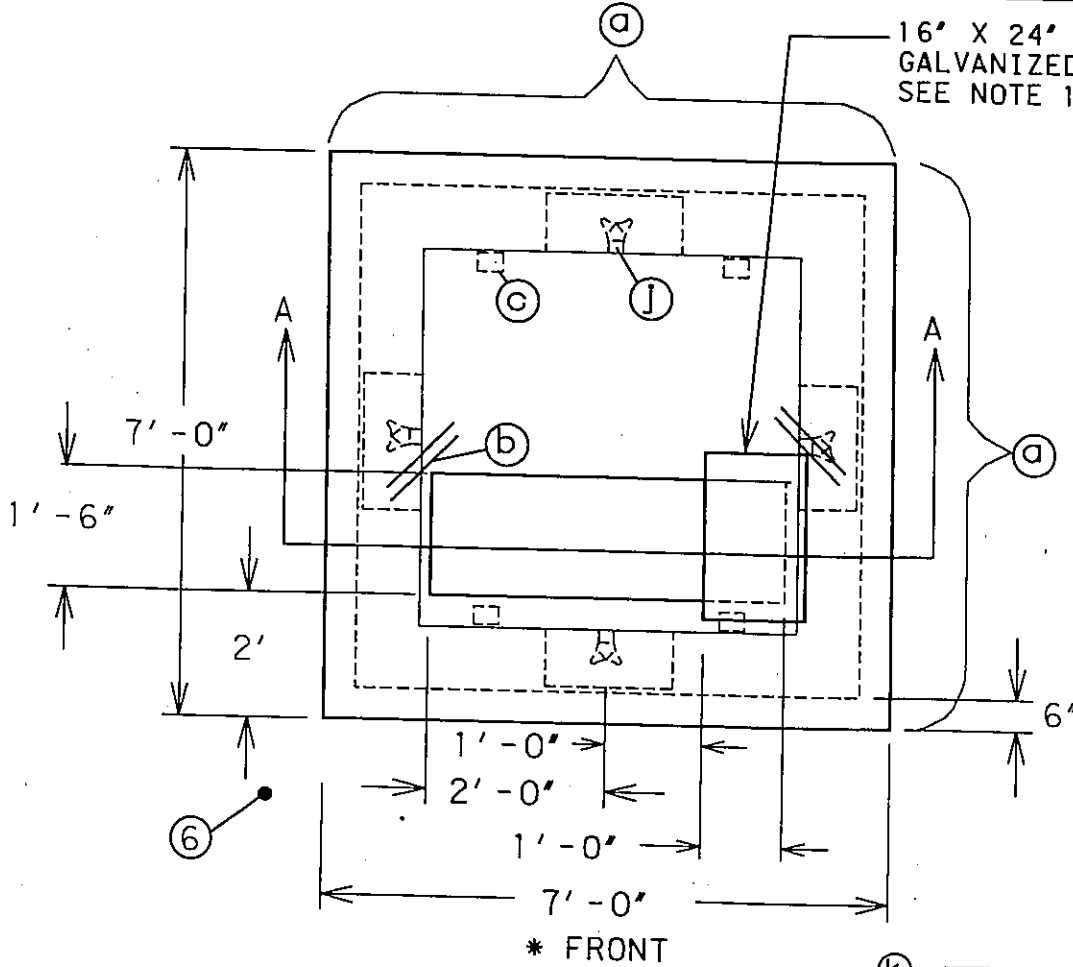


MACRO

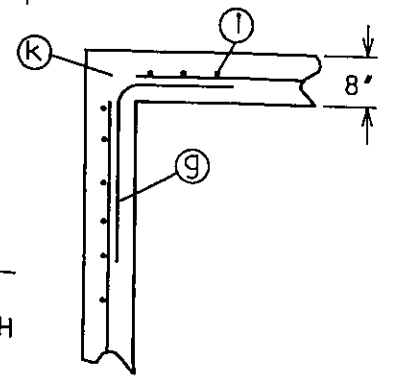
DESCRIPTION
SMALL 7' x 7' THREE PHASE TRANSFORMER FOUNDATION

PAGE
364-8

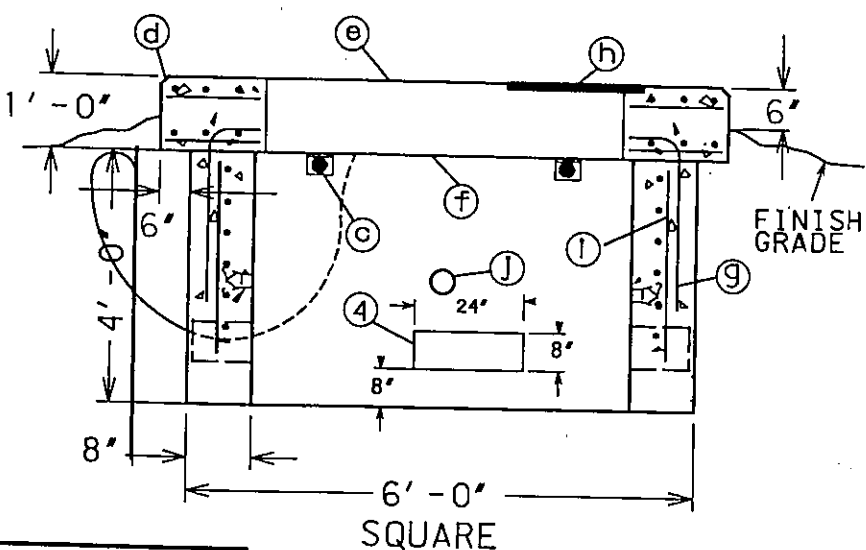
NO.	REVISION	DATE	BY
I	Changed numbers	08/22/08	



* FRONT



BASE: TYPICAL CORNER VIEW



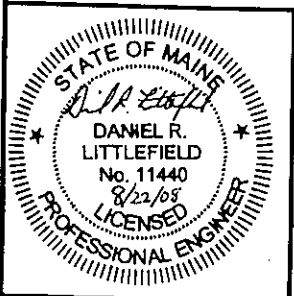
SECT. A-A

APPLICATION CHART

- 7' X 7' PADS:
- 75 - 500 KVA - 15 KV
- 75 - 150 KVA - 35 KV

ORIGINAL	DESIGNED	REDRAWN	DRAWN	DATE
			GRG	12/16/91

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS



PAGE 364-9	DESCRIPTION LARGE (9'x9') THREE PHASE TRANSFORMER FOUNDATION	MACRO
---------------	---	-------

NOTES:

1. * FRONT denotes the side on which the access doors are located. The concrete base shall be set on a suitable gravel base and located so the FRONT is accessible by truck and suitably protected from plow and traffic damage.
2. Before installing or requiring any active drainage structure (e.g., drain pipe) into the foundation or pad, the contractor, CMP Line Supervisor, or CMP Distribution Engineer must contact Central Maine Power Company's Environmental Services Department at 623-3521 ext. 3479 to request a site inspection.
3. Finish grade shall be graded in such a manner to allow surface water to flow away from the pad.
4. Provide 8' X 24' cable holes (bond outs) 8' up the wall from the base. Locate one cable hole per wall, more if necessary. Line up cable holes with trench.
5. Conduits entering concrete structures shall be set back from the inside wall 1 to 2 inches and the space within the knockout surrounding the conduits completely filled with mortar to prevent soil from entering structure. Inside the structure the mortar shall be finished and beveled from the conduit ends to the inside wall face to cover and smooth the edges of the knockouts.
6. A 3/4" x 8' galvanized ground rod is to be installed six inches in front of the left FRONT corner of the foundation. The top of the ground rod is to be 6 inches below final grade.
7. A ground wire shall be installed from the ground rod through the cable hole at the bottom of the pad. 20 Feet of ground wire shall be provided so that it can be installed through the two grounding lugs and connected to the neutral spade.
8. Concrete compressive strength shall be 4000 PSI @ 28 days. For cast-in-place early high strength may be used with a minimum of seven day cure time.
9. Reinforcing steel to have: FY = 60 KSI.
10. For precast units: The precast supplier shall provide lifting lugs in the slab (foundation) and base; the precast supplier shall assemble the slab to the base prior to shipping to the site to ensure that the slab and base fit properly (with no rocking of the slab evident).
11. Use a 24" x 24" x 1/4" galvanized steel plate to cover a portion of the cable hole when the transformer does not completely cover it. Cut the steel plate to fit, if necessary.
 - a. 9-#5 Rebar evenly spaced each way top to bottom.
 - b. 2-#4 Corner diagonal rebar 2'-0" long top and bottom.
 - c. 4" x 4" x 1/2" angle 6' long with 2-3/4" diameter expansion anchors typical - 4 places (two piece precast only).
 - d. Chamfer typical
 - e. 2" Concrete cover over top rebar.
 - f. 3" Concrete cover over bottom rebar.
 - g. #5 L-Bar @ 12" (cast-in-place only)
 - h. 24" x 24" x 1/4" galvanized steel plate. MID#6000621795
 - i. #5 Rebar on 12" centers.
 - j. Pulling eye insert, for use with 3/4" national course thread eye-bolt, (Richmond LCB-1 or equivalent). Located opposite each cable hole and 2' (two feet) from the bottom.
 - k. All rebar ends to be covered by 1' of concrete, minimum.

CAD SYSTEM ONLY

DRAWN	GRG
DATE	12/13/94

END

ELECT

REMOVED NOTE 1, MOVED LETTERS TO margin	09/08/08
---	----------

DISTRIBUTION CONSTRUCTION STANDARDS

CENTRAL MAINE POWER CO.



MACRO

DESCRIPTION

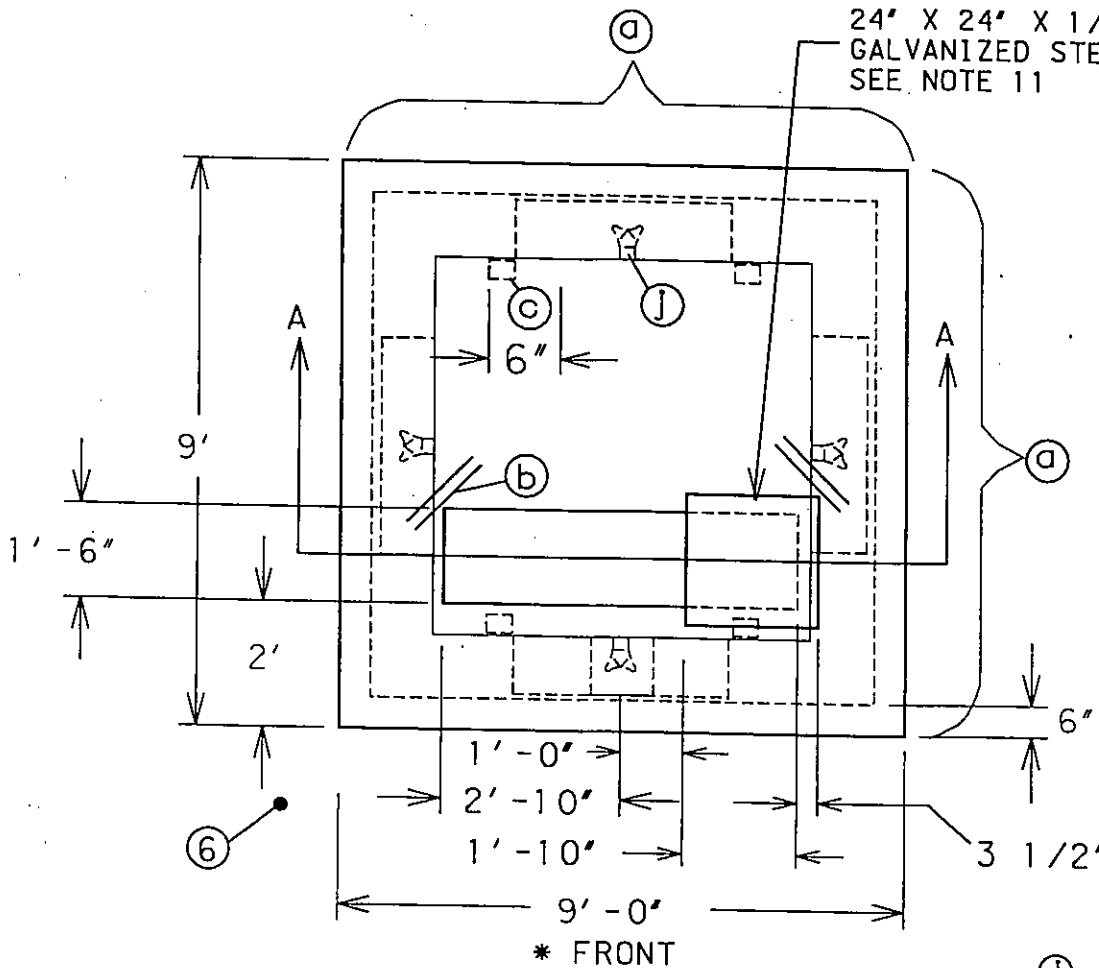
PAGE

LARGE (9' X 9') THREE PHASE TRANSFORMER FOUNDATION

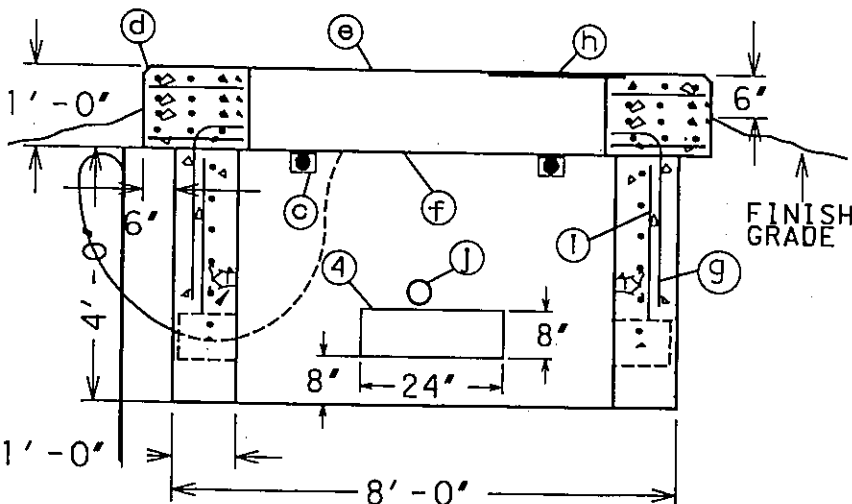
364-10

NO.	REVISION	DATE	BY
1	Changed number 8	08/22/08	

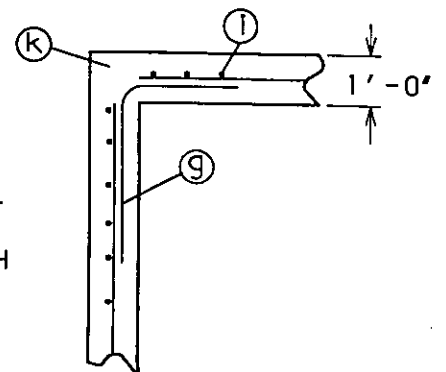
24" X 24" X 1/4" GALVANIZED STEEL PLATE SEE NOTE 11



* FRONT



SQUARE SECT. A-A



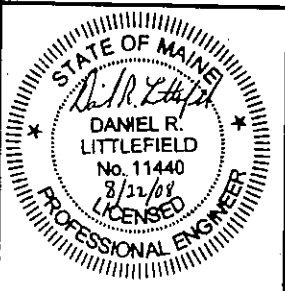
BASE: TYPICAL CORNER VIEW

APPLICATION CHART

9' X 9' PADS:
 750 - 5000 KVA - 15 KV
 150 - 5000 KVA - 35 KV

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

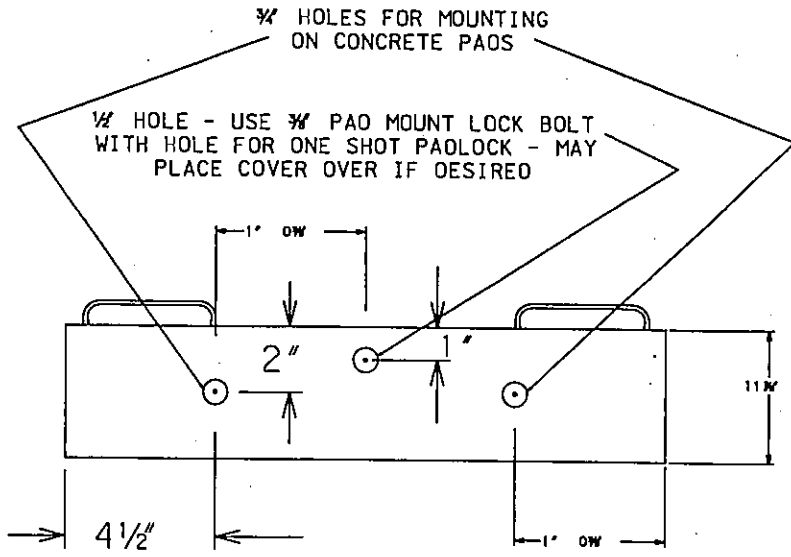
ORIGINAL	DESIGNED
REDRAWN	DRAWN
GRG	DATE
12/11/91	



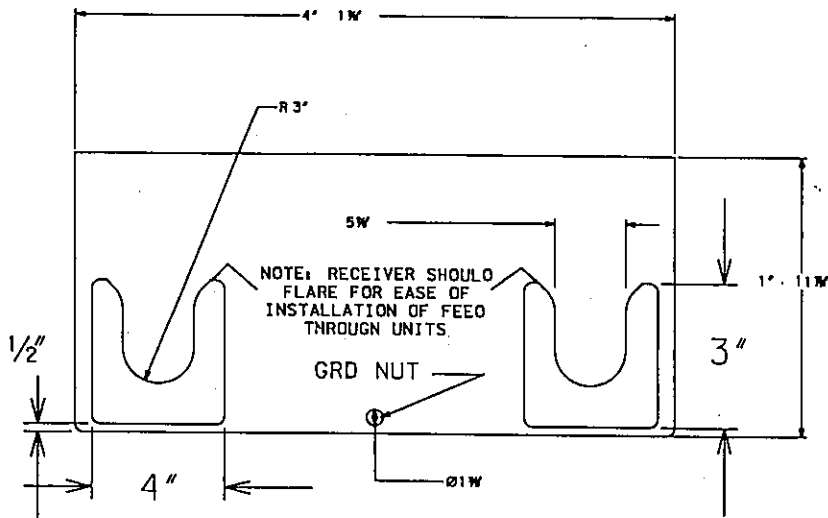
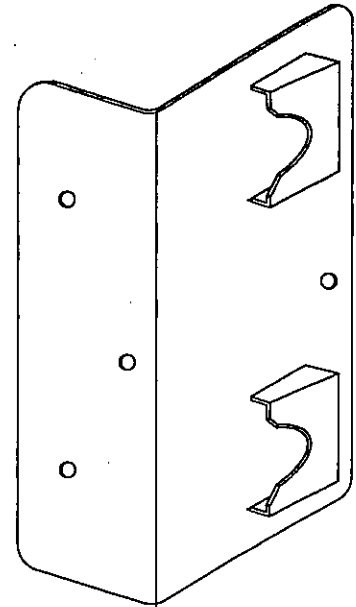
CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

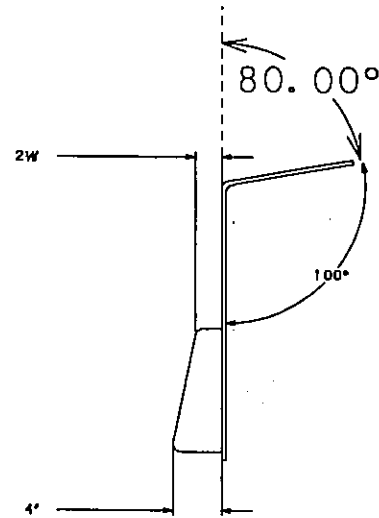




TOP



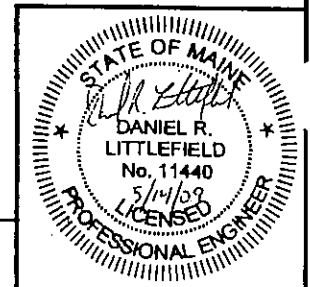
FRONT



SIDE

S/C	CU
600021 3700	C6U0PFTOMB

NOTE:
CONSTRUCT OUT OF 1/8 IN. THICK STEEL PLATE MINIMUM



ENGINEER

FAST

DRAWN	REC
DATE	12/20/07

CADD SYSTEM ONLY

GENERAL

Standard three phase pad mounted transformers are dead front feed-thru design. "Dead front" primary construction provides fully insulated primary cables, bushings and connections when completely assembled. This type of construction means that all primary voltage connections to the transformer shall be made with molded bushings and elbows.

In the past, the company has used three phase pad mounted transformers with live front primary construction. With "live front" primary construction the primary cables are terminated inside the transformer cabinet with stress cones and the conductor portion of the cable is connected directly to the transformer bushing. Connections and conductors are exposed to direct contact when the cabinet doors are open.

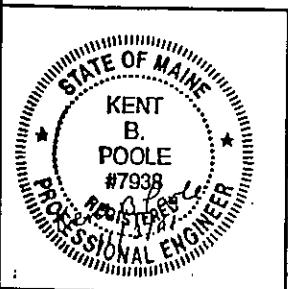
Standard three phase pad mount transformers with secondary voltages of 120/208 or 277/480 are available up to 2500 KVA.

On dual voltage 4160 x 12470 volt transformers with taps, the tap must be in a specific position when used at 4160 volts. The taps on dual voltage units are designed for operation at 12470 volts only. Check name plate carefully.

DESIGNED	CS	REVISED	REVISED
DRAWN	REC		
DATE	10/29/01		

DESIGNED	EVG	ORIGINAL	
DRAWN	RCE		
DATE	D6/05/78		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



DESCRIPTION
BAY-0-NET FUSES FOR TRANSFORMERS

MACRO

FUSE LINK UNITS. f/SMD-20 34.5 KV

TRANSFORMER
RATING - KVA

FUSE LINK

MIO*

1000	15E SLOW	6000497515
1500	25E SLOW	6000497525
2000	30E SLOW	6000497530
2500	50E VERY SLOW	6000497570
5000	100E VERY SLOW	6000497630

BAY-0-NET FUSES FOR TRANSFORMERS

TRANSFORMER SIZE KVA	VOLTAGE					
	SINGLE PHASE			THREE PHASE		
	2400V	7200V	19920V	4160V	12470V	34500V
10	8 AMPS	3 AMPS				
25	25	8				
45				15 AMPS	3 AMPS	3 AMPS
50	50	15				
75	65	25		25	8	3
100	65	25				
112 1/2				50	15	3
150				50	15	8
167	140	50	12			
225				65	25	8
250		65				
300				65	25	8
333		65				
500				140	50	*15
750				140	65	
1000					65	
1500					*140	
2000					*140	

1. Unless otherwise noted all fuses are Bay 0-Net Load Sensing Link type and rated in amperes.
2. * This fuse is Bay-0-Net Current Sensing Link type, load sensing fuses must not be used in these transformers.

DUAL AND CURRENT SENSING BAY-0-NET FUSES LINKS

(FOR PROPER FUSE APPLICATION SEE TRANSFORMER NAME PLATE)

DUAL OR LOAD SENSING

CURRENT SENSING

CMP MID*	COOPER PART NO.		CMP MIO*	COOPER PART NO.	
6000499203	4000358C03M	3 AMP	6000499209	4000353C08B	15 AMP
6000499205	4000358C05B	8 AMP	6000499250	4000353C17B	140 AMP
6000499208	4000358C08B	15 AMP			
6000499210	4000358C10B	25 AMP			
6000499212	4000358C12B	50 AMP			
6000499215	4000358C14B	65 AMP			
6000499245	4000358C18	140 AMP			
6000499245	4000358C18B	140 AMP			
6000499245	4000358C18C	140 AMP			

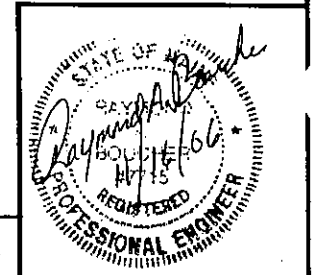
DESIGNED	US
DRAWN	REC
DATE	10/03/01
	11/18/06



past

DESIGNED	VEG
DRAWN	SGD
DATE	03/01/06

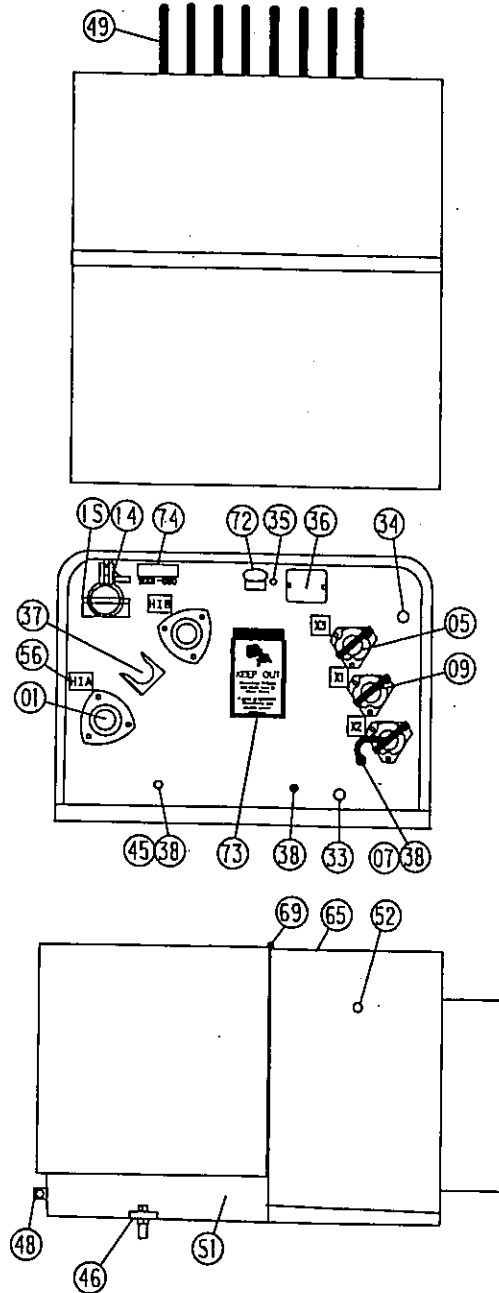
BE REVISION ON THE 11
CADD SYSTEM ONLY



Detail depicts typical arrangement for 7200 volt Padmount transformers; placement of components may vary with manufacturer. Secondary Breakers will be provided on Padmount transformers 19920 Volt.

DESIGNED	REVISED	REVISED
DRAWN	CS	
DATE	REC	
		08/11/06

DESCRIPTION	
01	HIGH VOLTAGE WELLS
01	HIGH VOLTAGE LOADBREAK INSERTS)
01	LOOP FEED
05	LOW VOLTAGE BUSHINGS
07	REMOVABLE COPPER GROUND STRAP
09	4 HOLE IN-LINE SPADES
14	BAYONET FUSE HOLDER
15	CUP TYPE ORIP SHIELD
33	1/2 IN. DRAIN PLUG
34	1/2 IN. FILL PLUG
35	PRESSURE RELIEF VALVE
36	TYPE A NAMEPLATE
37	PARKING STAND
38	1/2-13 GROUND PAD
45	GROUND CONNECTOR
46	HOLD DOWN CLEATS
48	SECURITY BOLT (PENTA)
49	RADIATORS
51	STANDARD SILL (REMOVABLE)
52	5/8-11 SS LIFTING LUGS
56	ADHESIVE TERMINAL DECALS
65	MILD STEEL TANK
69	SS HINGES AND PINS
72	PRESSURE RELIEF VALVE DECAL
73	DANGER DECAL
74	VENT TANK DECAL



Installed Hold Down Cleats

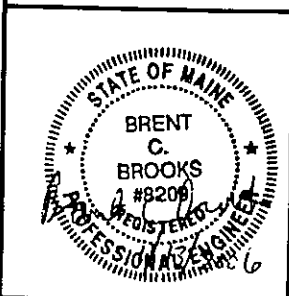
Hold Down Cleat →

NOTE:

All transformers must be secured to their base by using the hold down cleat and a 5/8" nut on concrete bases or a 3/8" bolt with an appropriate washer on a fiberglass base.

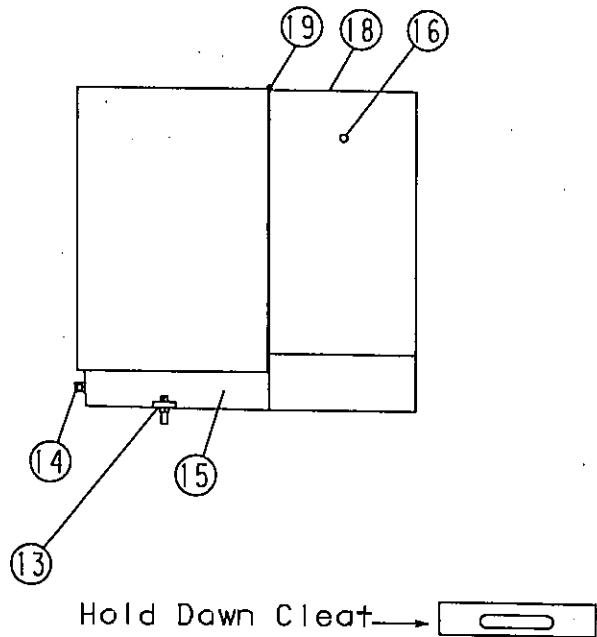
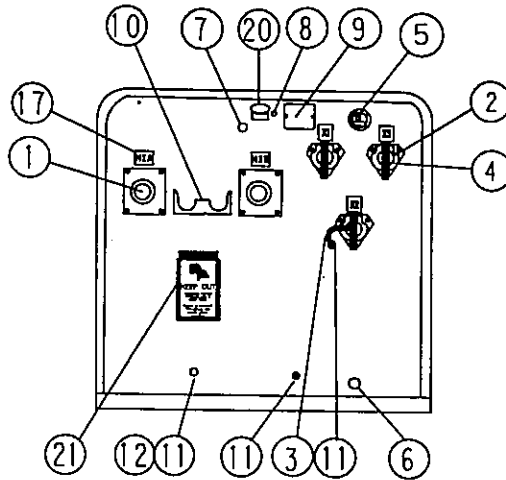
DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	10/29/01

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



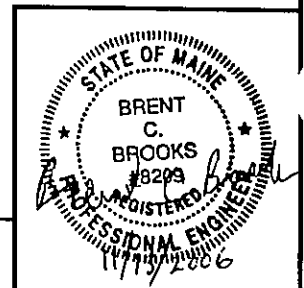
Detail depicts typical arrangement; placement of components may vary with manufacturer.

DESCRIPTION	
1	HVB WELLS
2	LOW VOLTAGE BUSHINGS
3	REMOVABLE COPPER GROUND STRAP
4	4 HOLE IN-LINE SPADES
5	LOW VOLTAGE BREAKER
6	1/2 IN. DRAIN PLUG
7	1/2 IN. FILL PLUG
8	PRESSURE RELIEF VALVE
9	TYPE A NAMEPLATE
10	DOUBLE PARKING STAND
11	1/2-13 GROUND PAD
12	GROUND CONNECTOR
13	HOLD DOWN CLEATS
14	SECURITY BOLT (PENTA)
15	STANDARD SILL (REMOVABLE)
16	5/8 -11 SS LIFTING LUGS
17	ADHESIVE TERMINAL DECALS
18	MILO STEEL TANK
19	SS HINGES AND PINS
20	PRESSURE RELIEF VALVE DECAL
21	DANGER DECAL



NOTE:

All transformers must be secured to their base by using the hold down cleat and a 5/8" nut on concrete bases or a 3/8" bolt with an appropriate washer on a fiberglass base.



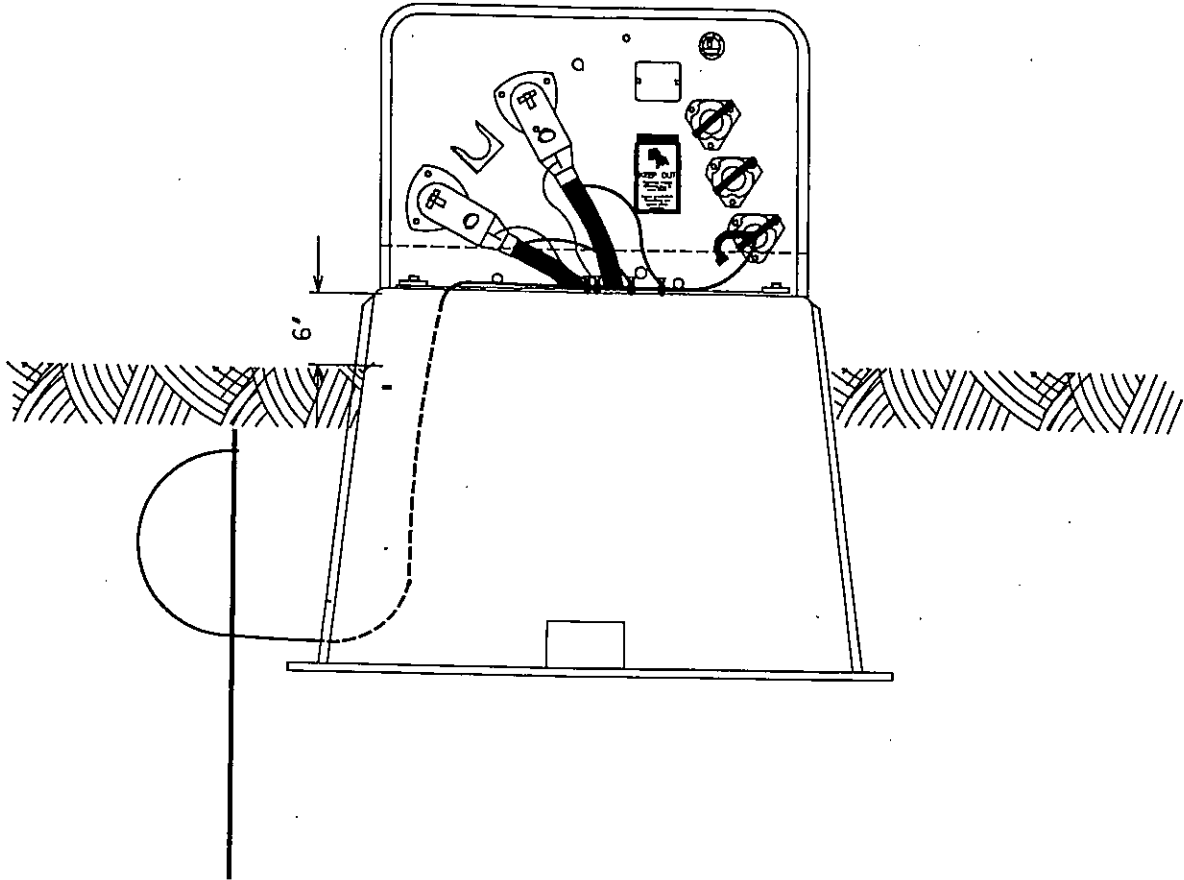
DRAWN	
DATE	

Eng
ast

DRAWN	REC
DATE	06/27/06

BE REVISED ON THE 11
CADD SYSTEM ONLY

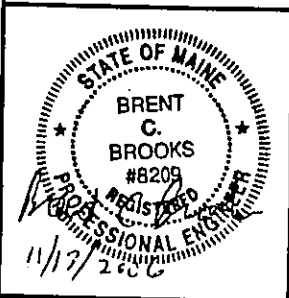
DESIGNED	REVIS	REVIS	REVIS
DRAWN	CS	CS	CS
DATE	REC	REC	REC
	09/07/01	07/14/06	



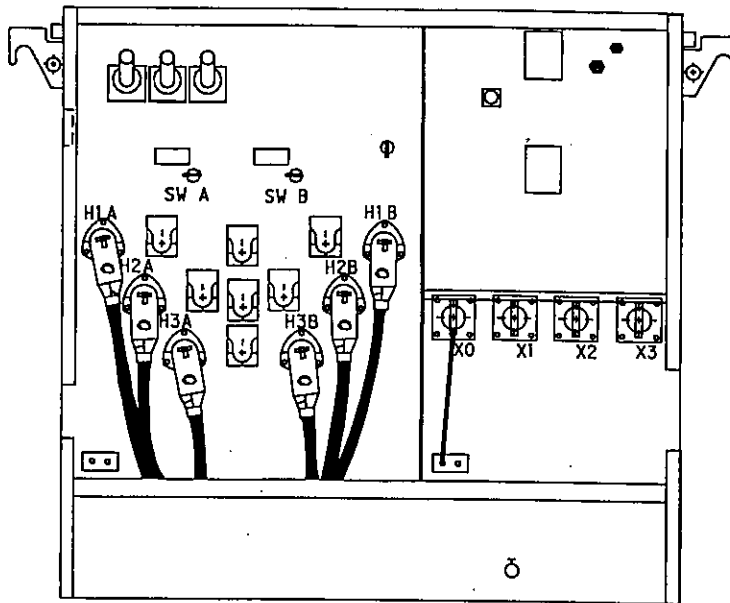
DESIGNED	EVG	RCE	
DRAWN			
DATE	07/01/79		

1. All transformers must be secured to their pad or base.
2. A 3/4" X 8' galvanized ground rod is to be installed 6' in front of the left front corner of the transformer padmount. The top of the ground rod shall be 6' below final grade.
3. A ground wire shall be installed from the ground rod through the cable hole at the bottom of the pad. 10 Feet of ground wire shall be provided so that it can be installed through the two grounding lugs and connected to the neutral.
4. The concentric neutrals on the primary cable must be banded together so to provide a continuous primary neutral. Both concentric neutrals shall also be banded to the transformer ground connection.
5. All padmount transformers shall be secured and locked with a one time padlock (MID#6000821013)..

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



DEAD FRONT PAD MOUNT TRANSFORMER

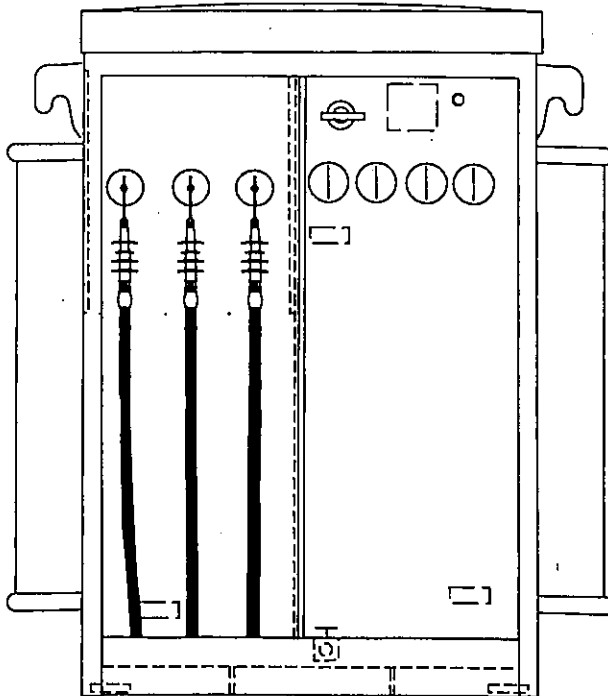


Detail depicts typical arrangement; placement of components may vary with manufacturer.

Dead front primary construction

This type of construction is made with all molded bushings and elbows, providing fully insulated high voltage terminals when completely assembled.

LIVE FRONT PAD MOUNT TRANSFORMER



Live front primary construction
(Maintenance only)

The primary cables are terminated inside the transformer cabinet with stress cones and the conductor portion of the cable is connected directly to the transformer bushing.

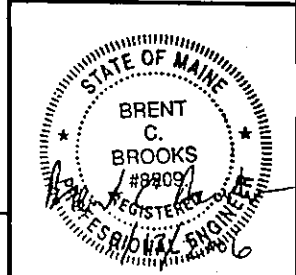
DRAWN	REC
DATE 06/22/06	

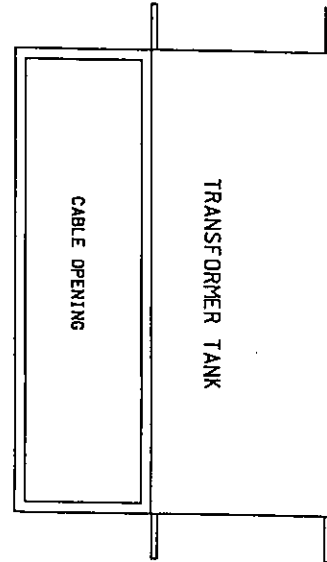
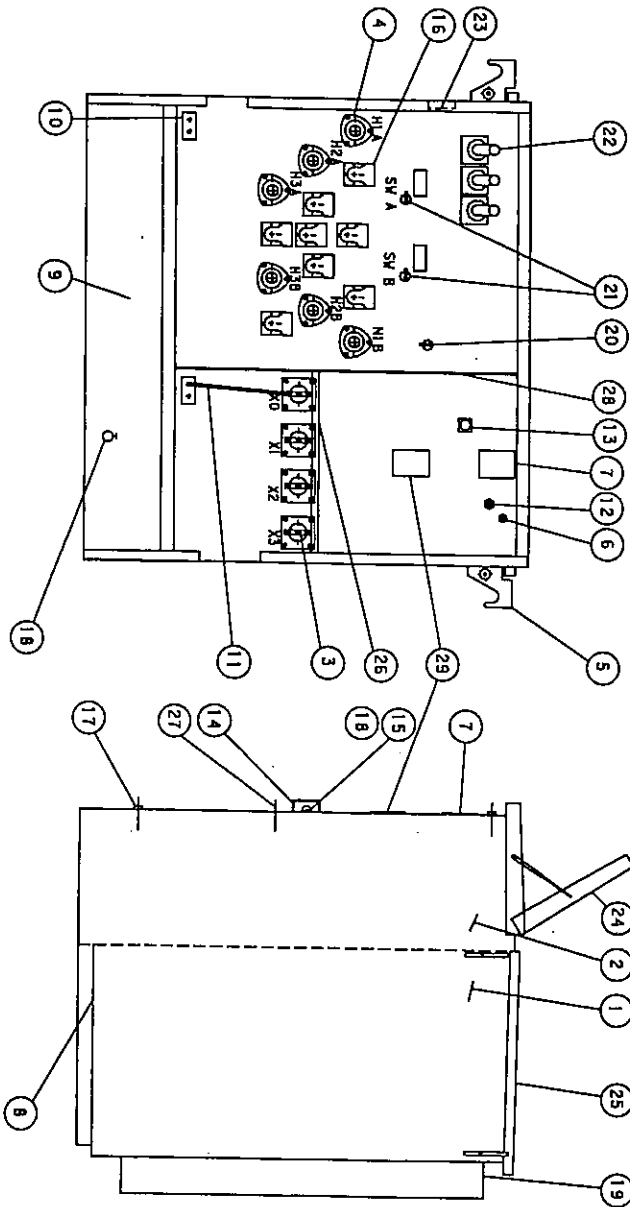


ast

DRAWN	REC
DATE 08/23/01	

BE REVISED UN THE
CADD SYSTEM ONLY





Detail depicts typical arrangement; placement of components may vary with manufacturer.
Bayonet fuse holder only up to 1000 KVA

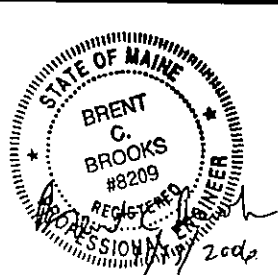
DESIGNED	REVISOR	REVISION	DATE
DRAWN	CS	08/23/01	06/22/06
DATE	REC		
	CS		

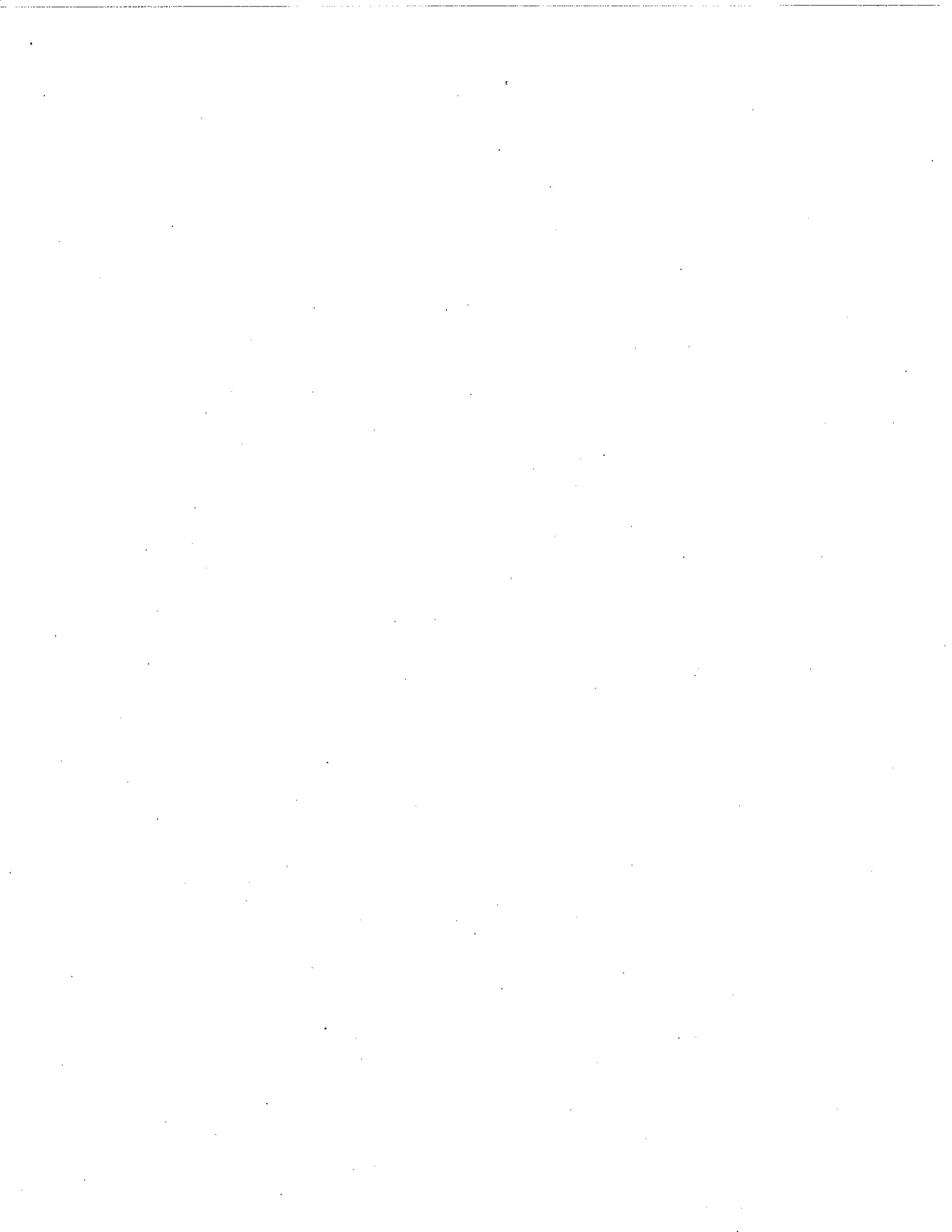
DESIGNED	DATE
DRAWN	2/23/77
DATE	



ITEM	DESCRIPTION
1	TRANSFORMER TANK
2	CABLE COMPARTMENT
3	LV BUSHING - 10 HOLE SPADE
4	HV BUSHING WELL
5	LIFTING LUG
6	PRESSURE RELIEF DEVICE
7	NAMEPLATE (2)
8	JACKING AREA
9	REMOVABLE SILL
10	GROUNDING PAD
11	GROUNDING STRAP
12	OIL FILL PLUG
13	OIL LEVEL PLUG
14	DOOR HANDLE
15	BRACKET FOR PADLOCK
16	PARKING STAND G/W EXTENSION BRACKET
17	1/2" PENTHEAD BOLT & CUPWASHER (3)
18	OIL DRAIN VALVE C/W DRIP GUARD
19	SUPPLEMENTAL COOLING
20	TAP SWITCH
21	2 POS. LB SWITCH
22	BAYONET FUSE HOLDER C/W DRIP GUARD
23	SPARE FUSE RACK
24	FLIP TOP COVER G/W GAS SPRING
25	BOLTED COVER C/W NUT GUARD
26	LV BUSHING SUPPORT
27	HV ODR LOCKING BOLT
28	HV/LV BARRIER
29	DANGER/WARNING LABELS

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





UG AND URD CABLE CHARACTERISTICS

DESIGNED	DRAWN	DATE	REVISED	CS	REC	02/15/08
----------	-------	------	---------	----	-----	----------

<u>MID*</u>	<u>SERVICE CABLE</u>	<u>STRAND</u>	<u>NEUTRAL</u>	<u>AMPACITIES IN CONDUIT IN EARTH (AMPS)</u>	<u>WEIGHT/1000 FT (lbs)</u>
76597	3C- *2 AL. TRIPLEXED	7	*4	100	252 lbs
76961	3C-4/0 AL. TRIPLEXED	19	2/0	205	713 lbs
6000000620	3C-4/0 CU PARALLEL	19	4/0 CU.	260	2,090 lbs

<u>MID*</u>	<u>SECONDARY CABLE</u>	<u>STRAND</u>	<u>NEUTRAL</u>	<u>AMPACITIES IN CONDUIT IN EARTH (AMPS)</u>	<u>WEIGHT/1000 FT (lbs)</u>
76961	3C-4/0 AL. TRIPLEXED	19	2/0	205	713 lbs
6000200440	1C-500 kcmil. AL.	37	-	350	579 lbs
6000200450	3C-500 kcmil. AL. TRI.	37	500kcmil. AL.	350	1,745 lbs
6000200640	1C-500 kcmil. CU.	37	-	430	1,796 lbs
751178	3C-500 kcmil. CU.	37	500kcmil. CU.	430	5,388 lbs

<u>S/C #</u>	<u>15 KV PRIMARY CABLE</u>	<u>STRAND</u>	<u>NEUTRAL</u>	<u>AMPACITIES IN CONDUIT IN EARTH (AMPS)</u>	<u>WEIGHT/1000 FT (lbs)</u>
6000201433	1C- * 2AL.	7	10-#14CU	120	598
6000201453	3C- * 2AL.	7	6-# 14CU	120	1,794
6000201463	1C-4/OAL	19	13-#10CU	230	1,138
6000201472	3C-4/OAL	19	11-#14CU	230	2,832
6000201516	1C-5000CU kcmil	37	26-#12CU	450	2,823
6000201520	1C-5000CU kcmil	37	26-#12CU	450	8,469

<u>MID*</u>	<u>35 KV PRIMARY CABLE</u>	<u>STRAND</u>	<u>NEUTRAL</u>	<u>AMPACITIES IN CONDUIT IN EARTH (AMPS)</u>	<u>WEIGHT/1000 FT (lbs)</u>
74209	1C-1/OAL	19	16-#14CU	150	1,061
6000202753	3C-1/OAL	19	6-#14CU	155	2,520
6000202803	3C-4/OAL	19	11-#14CU	230	3,993
6000202858	3C-350CU Kcmil	37	18-#12CU	375	7,422
6000202943	1C-500CU Kcmil	37	26-#12CU	450	3,337
6000202946	3C-500CU Kcmil	37	26-#12CU	450	10,011

NOTE: Service and secondary cable ampacity ratings are based on the National Electric Code with a 90 degree C conductor temperature with an ambient earth temperature of 30 degrees C.

NOTE: Primary Cable ampacity ratings, Single and three phase are based on a 90 degree C conductor temperature, 20 degree C ambient earth temperature, 100% load factor and an earth thermal resistivity of RHO 90.

NOTE: For complete specification for primary UG and URD cable see current Energy East spec. EASCPURD



DESIGNED	EVG	RCE	DATE
DRAWN			04/30/76

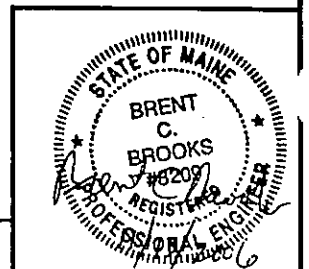
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



DESCRIPTION
PRIMARY CABLE SPLICING MATERIAL

MACRO

CABLE		SPLICE KIT		SPLICE KIT		NEUTRAL SLEEVE		SPLICE COVER KIT
DISCRIPTION	MIO*	PHASE	MIO*	Mfr	TOOL & DIE	MID*	TOOLING & DIE	MIO*
		Pr 1 Neut			Primary Sleeve		Neutral Sleeve	
15KV #2 URD	6000201433	10 #14	751181	3M Cooper Elastimold	MD6 W-BG Hypress U-BG	6000111502	MD6 W-BG Hypress U-BG	6000215150
15KV #2 URD	6000201453	6 #14	751181	3M Cooper Elastimold	MD6 W-BG Hypress U-BG	6000111500	MD6 W-BG Hypress U-BG	6000215150
15KV 4/0 URD	6000201463	20 #12	751173	3M	Hypress U-28ART	6000111506	Hypress U-03	6000215151
15KV 4/0 URD	6000201463	13 #10	751173	3M	Hypress U-28ART	6000111506	Hypress U-03	6000215151
15KV 4/0 URD	6000201472	11 #14	751173	3M	Hypress U-28ART	6000111504	Hypress U-C	6000215151
35KV 1/0 URD	74209	16 #14	206211	3M Cooper Elastimold	MD6 W-BG Hypress U-BG Hypress U-BG	6000111504	Hypress U-C	6000215151
35KV 1/0 URD	6000202753	6 #14	206211	3M Cooper Elastimold	MD6 W-BG Hypress U-BG Hypress U-249	6000111500	MD6 W-BG Hypress U-BG	600215151
35KV 4/0 URD	6000202803	11 #14	6000215715	3M	Hypress U-28ART	6000111504	Hypress U-C	6000215151



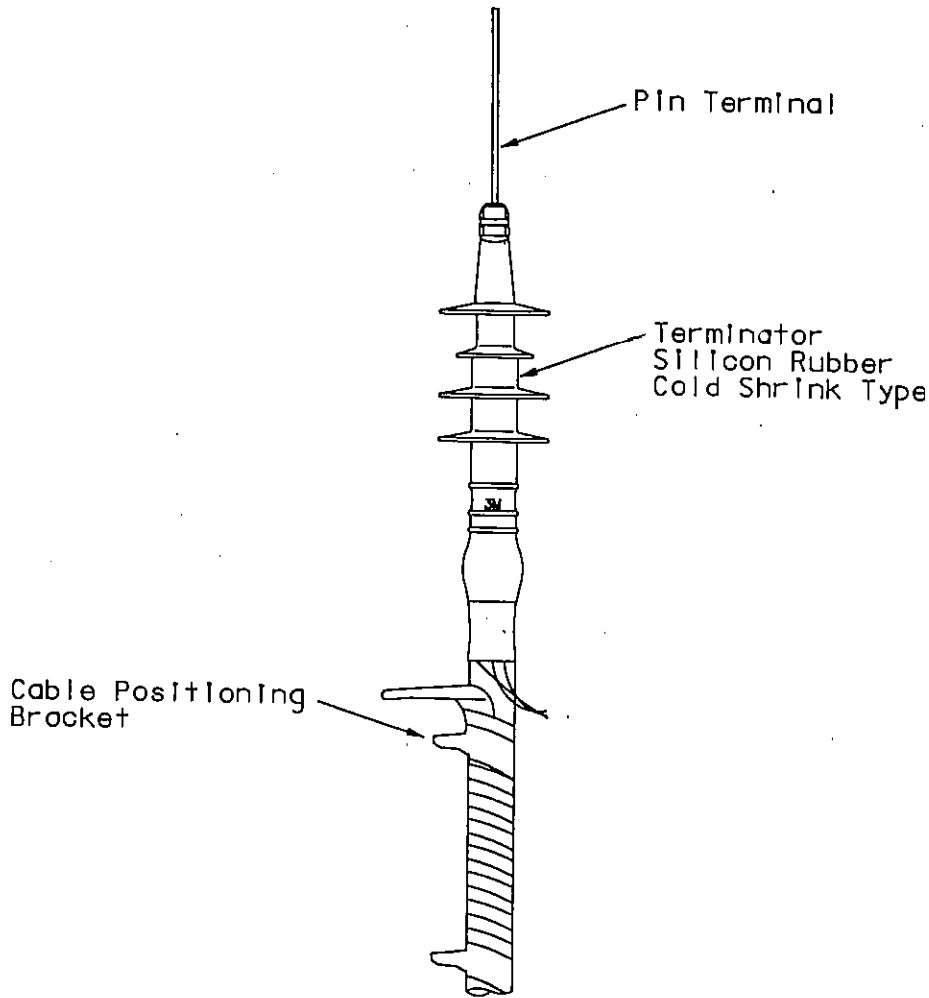
DATE	08/23/01	REC	REC
DRAWN	07/14/06		



DATE	8/21/95	DRWN	GRG
			UWG

BE REVISED ON THE 11
CADD SYSTEM ONLY

TERMINATORS



Terminator Assembly

TERMINATORS (All Cable Terminations)

6000215848 Terminator, silicon rubber, cold shrink, for use with
C6UOTASR15 cables having primary insulation O.D. range of 0.72-1.29
Inches. Fits 15KV #2, 1/0, and 4/0 URD and submarine
cables. Requires terminal connector, recommended pin
terminals are: *2AL or CU-MID* 6000119045, 1/AL-
MID* 6000119048 and 4/0AL-MID* 6000119072

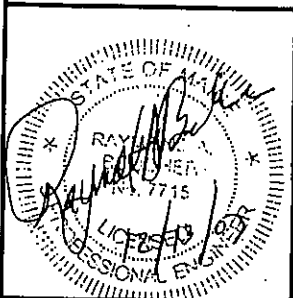
6000215849 Terminator, silicon rubber, cold shrink, for use with
C6UDTASR15/35 cables having primary insulation O.D. range 1.05-1.80
Inches. Fits 15KV-350, 500, and 750MCM and 35KV-1/0,
2/0, 4/0, 350, 500 and 750 MCM URD, submarine and duct
type cables. Requires MID* 6000215847 for use w/shielded
cables. Requires pin or lug terminal connector,
recommended pin terminals.

NO.	REVISION	DATE	CHK.
1	ADD STOCK CODE NUMBERS CUS		



ORIGINAL	CS
DESIGNED	HEP
DRAWN	
DATE	05/02/90

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





MACRO

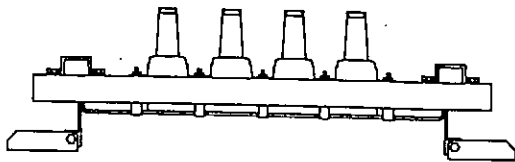
DESCRIPTION

PAGE

15KV URD 200 AMP MATERIAL

367-1

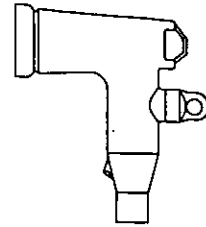
LOADBREAK JUNCTION



MID# CU

3 WAY	6000213870	C6UDPRJ315AS
4 WAY	6000213960	C6UOPRJ415AS

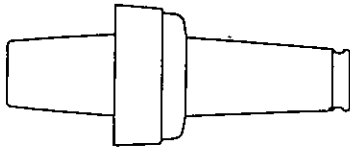
LOADBREAK ELBOW CONNECTDR



WIRE SIZE MID# CU

*2 220 MII	6000213990	C6UDELB215220
1/0 345 MII	6000214500	C6UDELB17015
4/0	751119	C6UOELB47015

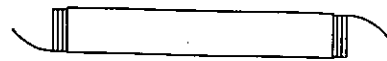
LOADBREAK BUSHING INSERT



MID# CU

90301	C6TDPLB15
-------	-----------

ELBOW-CABLE JACKET SEAL KIT

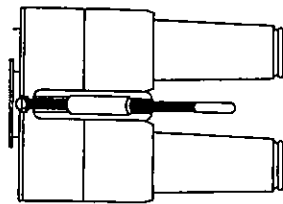


MID# CU

91952	C6UOELBSK15/35
-------	----------------

USE ON 15 & 35 KV CABLES

FEED-THRU



MID# CU

90182	C6UOPFT215
-------	------------

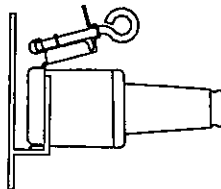
DEAD END CAP



MID# CU

92771	C6UDRDE15
-------	-----------

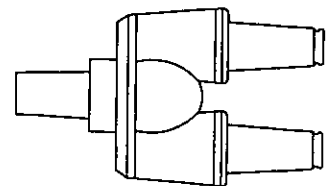
INSULATED PARKING BUSHING



MID# CU

6000213270	C6UDPIPI5200
------------	--------------

LOADBREAK FEED-THRU INSERT



MID# CU

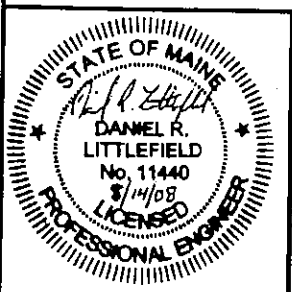
6000213240	C6TDPLB15D200
------------	---------------

REV	REVISION	DATE	CC
1	Chngd Loadbreak Just CU & Ins PK Behing MID*	10/02/07	
2	Chngd some MID #'s	04/30/08	



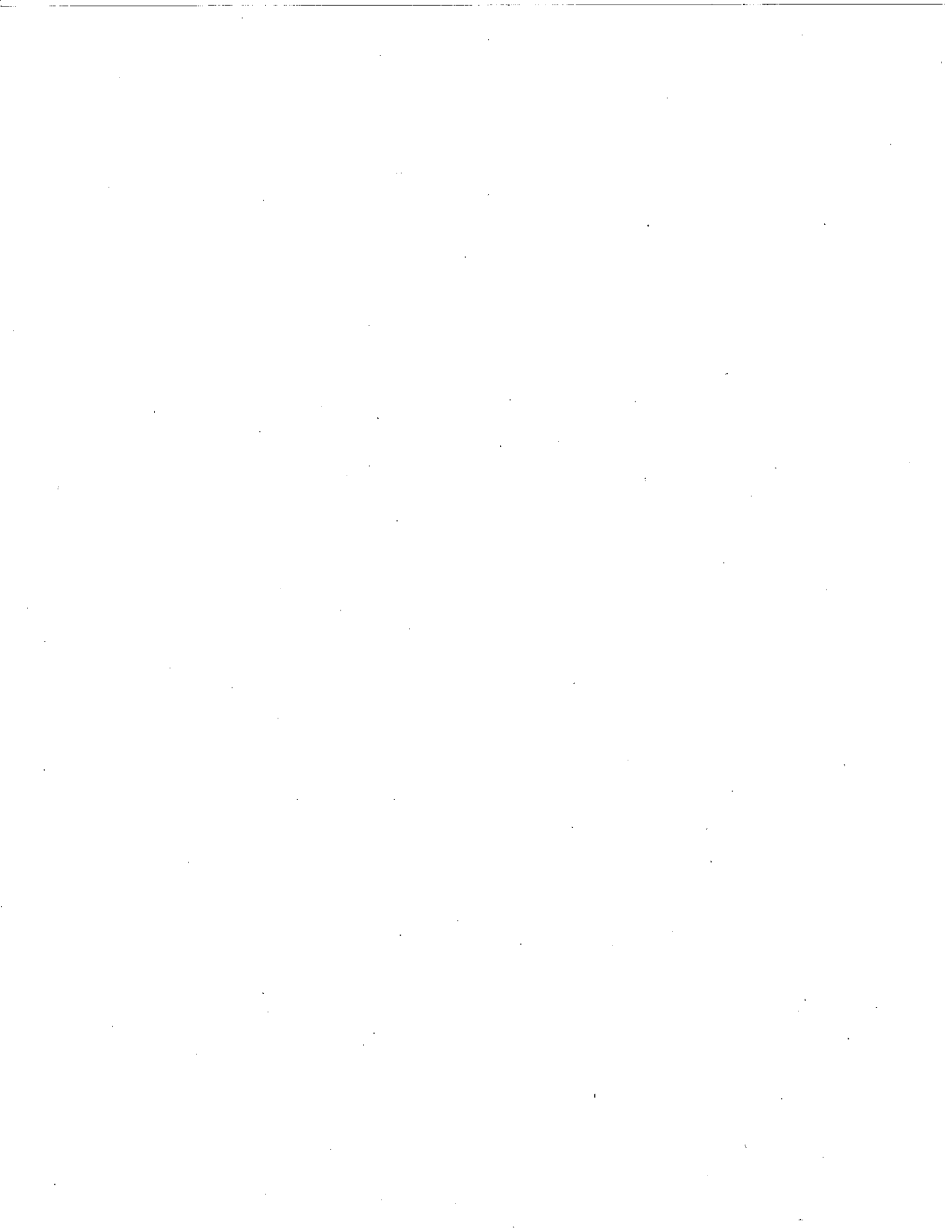
DESIGNED	JEC
DRAWN	GRC
DATE	12/13/94

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



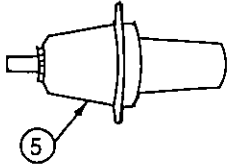
CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

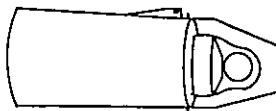


MACRO	DESCRIPTION 15kV 600 AMP ELBOW CONNECTORS	PAGE 367-2
-------	---	----------------------

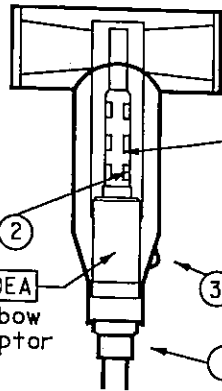
**BUSHING
SUPPLIED ON
EQUIPMENT**



**600 AMP NON
LOADBREAK
DE CAP
(MID*92797)**



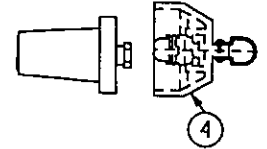
**ELBOW
C6UDEH6001S
(MID*6000211920)**



**CONNECTING
STUD
INCLUDED WITH
ELBOW**



**INSULATING PLUG
WITH CAP
C6UDPD15600
(MID*92509)**



CABLE SIZE	(1)		(2)	
	ADAPTOR	ELBOW CONTACT	ADAPTOR	ELBOW CONTACT
4/0 (175mil)	C6UDEA4/D (MID*751176)	C6UDEC4/0 (MID*6000211890)		
350 (175mil)	C6UDEA350/175 (MID*751174)	C6UDEC350 (MID*6000211860)		
500 (175mil)	C6UDEA500/175 (MID*751177)	C6UDEC50015 (MID*6000211830)		

- 1. STRESS RELIEF ADAPTER**
Molded rubber adapter is sized to the cable insulation and provides stress relief for the terminated shield. The radial pressure exerted on the cable shield by the adapter precludes the presence of air at the start of the stress surface. Suitable for installation on both extruded-shield cable and tape-type shield cable.
- 2. SPADE TERMINAL**
Semi-permanent, crimped connector sized for the specific conductor. Crimped on with standard tools and dies.
- 3. GROUNDING EYE**
Hole provides a convenient point to connect a ground wire to the molded conductive shield, placing the molded shield at ground potential.
- 4. VOLTAGE TEST POINT CAP**
Molded conductive rubber cap fits over the test point and onto the connector housing.
- 5. APPARATUS BUSHING**
600 Amp non load break bushing supplied on equipment.
- 6. THREADED CONNECTING STUD**
A removable threaded stud is included with every 600 amp elbow.

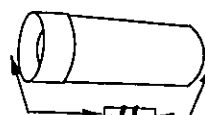
Assembly For Adopting 600 Amp To 200 Amp Loadbreak

**600 Amp
Bushing
(supplied on
equipment)**



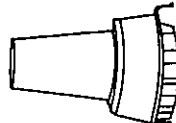
**600 Amp
Bushing
Extension**

(MID*6000211950)



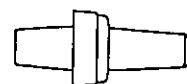
**600/200 Amp
Reducing
Tap Well**

(MID*198421)



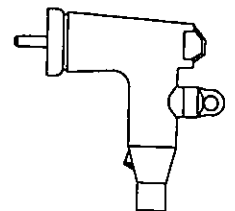
**200 Amp
Load Break
Bushing**

(MID*90301)

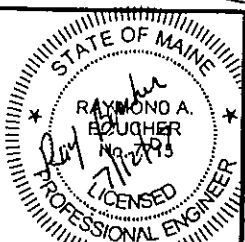


**200 Amp Load
Break Elbow
4/0 Al**

(MID*751119)



**CONNECTING STUD
C/U C6UDPBS15600
(MID*6000213301)**



CENTRAL MAINE POWER CO.

**DISTRIBUTION CONSTRUCTION
STANDARDS**

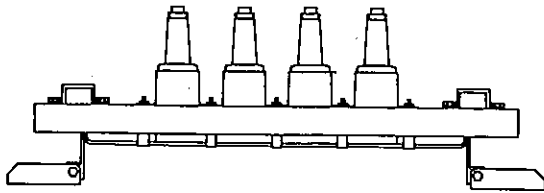
REV	REVISION	DATE	CHK.
1	Corrected compatible unit	7/17/84	



ORIGINAL	JEC	GRG	8/30/95
DESIGNED			
DRAWN			
DATE			

**THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY**

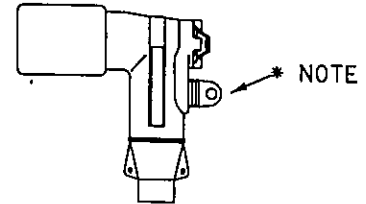
LOADBREAK JUNCTION



MID# CU
6000213968|C6UORJ435200

LARGE INTERFACE
6000213970|C6UDRJ435200LI

LOADBREAK ELBOW CONNECTOR

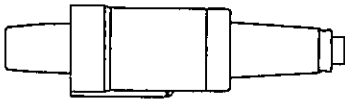


WIRE SIZE MID# CU
1/0 194565 C6UOELB1/035

LARGE INTERFACE
1/0 6000214113|C6UDELBI/035LI

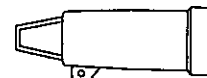
* NOTE: LARGE INTERFACE ELBOWS ARE WITHOUT TEST POINT

LOADBREAK BUSHING INSERT



MID# CU
1φ 751118 C6T0PLB135

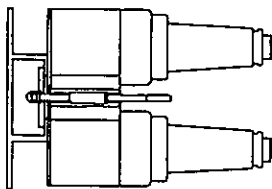
DEAD END CAP



MID# CU
6000214328|C6UDRDE35

LARGE INTERFACE
6000214330|C6UDRDE35CAPLI

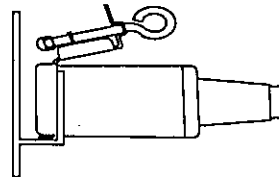
FEED-THRU



MID# CU
90205 C6UDPFT235200

LARGE INTERFACE
6000213785|C6UDPFT235200LI

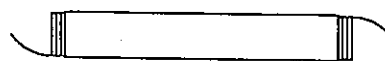
INSULATED PARKING BUSHING



MID# CU
6000213280|C6UDPIP35200

LARGE INTERFACE
6000213285|C6UOPIP35200LI

ELBOW-CABLE JACKET SEAL KIT



MID# CU
91952 C6UDELBSK15/35

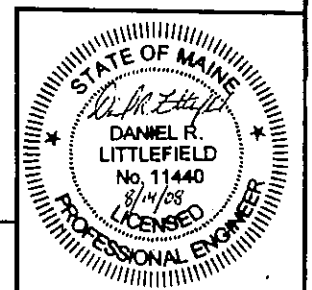
USE ON 15 & 35 KV CABLES

RE REVISED ON THE
CADD SYSTEM ONLY

DATE 1/18/95
DRAWN GRC
DATE 1/18/95

Eng

ast



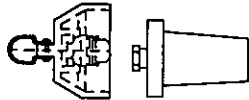
MACRO

DESCRIPTION
35KV 600 AMP ELBOW CONNECTORS

PAGE
367-4

DESIGNED	JLH	REVISOR	REVISOR
DRAWN	REC	DATE	02/16/06
DATE	02/16/06		

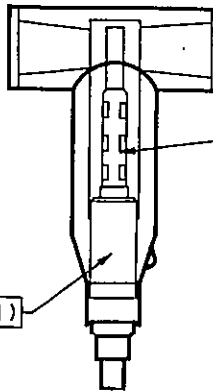
INSULATING PLUG WITH CAP
C6UDPBS35600
(MID*600021 3346)



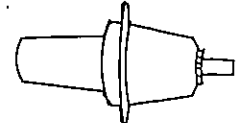
CONNECTING STUD
C6UDPBS35600
(MID*600021 3347)



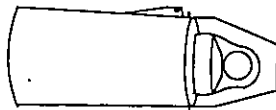
ELBOW (INCLUDES CONNECTING STUD)
C6UDEH60035
(MID*600021 1921)



BUSHING SUPPLIED ON EQUIPMENT



600 AMP NON LOADBREAK DE CAP
C6UDRDE35
(MID*600021 4328)

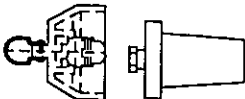


SEE CHART (2)

SEE CHART (1)

Assembly For Adapting 600 Amp Deadbreak Elbow To 200 Amp Loadbreak Elbow

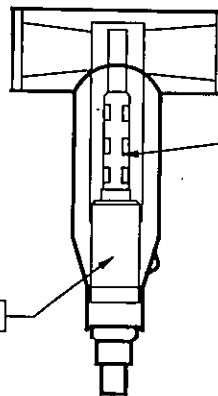
INSULATING PLUG WITH CAP
C6UDPBS35600
(MID*600021 3346)



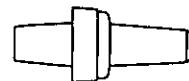
CONNECTING STUD
C6UDPBS35600
(MID*600021 3347)



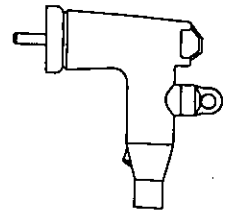
ELBOW
C6UDEH60035
(MID*600021 1921)



600/200 AMP REDUCING TAP PLUG
C6UDETP60035
(MID*600021 3348)



200 AMP LOAD BREAK ELBOW
1/0 AL
C6UDELBI /035
(MID*600021 4112)

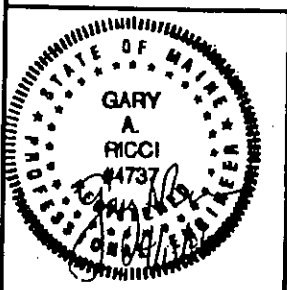


SEE CHART (2)

SEE CHART (1)

DESIGNED	JLH	REVISOR	REVISOR
DRAWN	REC	DATE	06/05/02
DATE	06/05/02		

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



CABLE SIZE	(1) ELBOW ADAPTOR	(2) SPADE TERMINAL CONTACT
4/0 (345mll)	C6UDEA4/0-345 (MID*600021 0036)	C6UDEA4/0 (MID*600021 1890)
350 (345mll)	C6UDEA4/0-345 (MID*600021 0036)	C6UDEC350 (MID*600021 1860)
500 (345mll)	C6UDEA500-345 (MID*600021 0038)	C6UDEC50015 (MID*600021 1830)
1/0 (345mll)	NOT STOCK	NOT STOCK



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS





UNDERGROUND RESIDENTIAL DISTRIBUTION SWITCHING

In the maintenance and operation of URD systems it is necessary to remove sections of cable, or pieces of equipment, from service for repairs or replacements.

All equipment and cable must be marked in accordance with Section 303 before any work is attempted.

Tools and equipment necessary for this type of work include: rubber gloves, a grip-all hotstick, an elbow puller, tie tracer or static scope or any other Company approved test equipment, feed thru bushings, grounding elbows, test rods, and silicone grease.

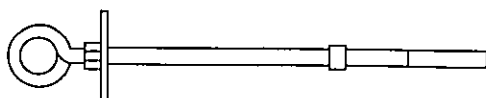
Feed thru bushing must be protected by two insulating receptacles at all times when not in use.

NO.	REVISION	DATE	BY	CHK.
1	Corrected spelling errors	05/12/03		

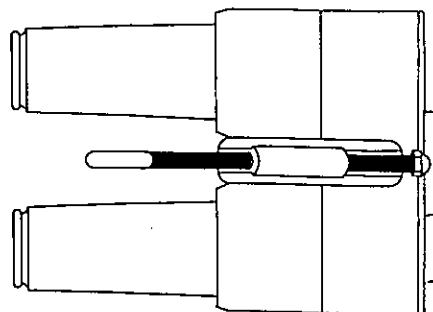


ORIGINAL	HEP	SGO	09/24/87
DESIGNED			
DRAWN			
DATE			

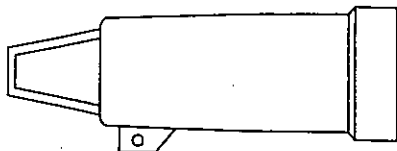
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



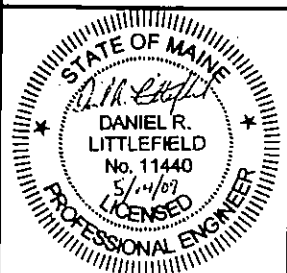
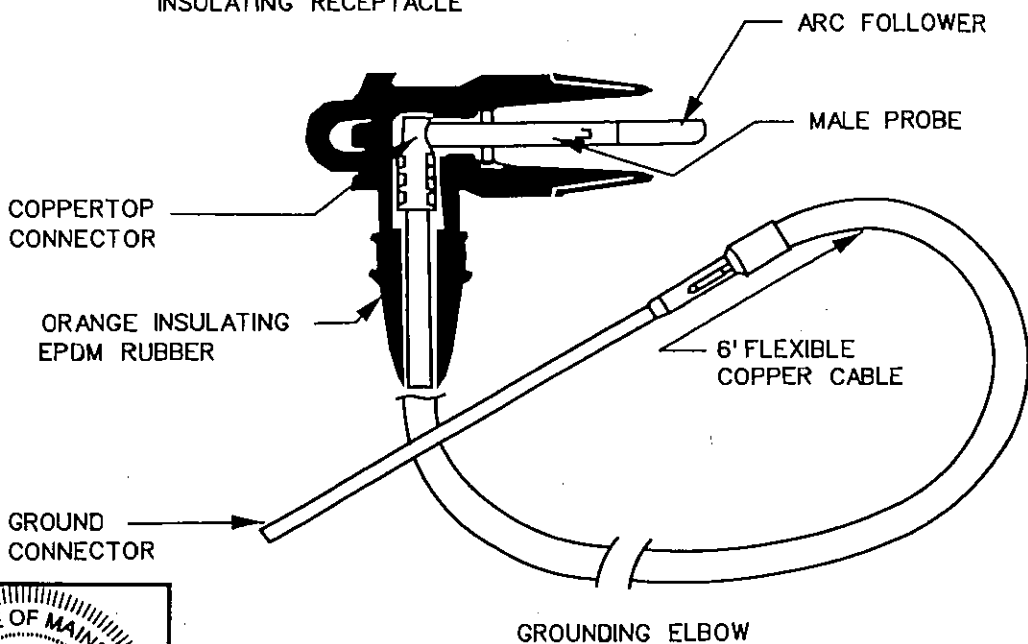
TEST ROD



FEED THRU BUSHING



INSULATING RECEPTACLE



PAGE 368-2	DESCRIPTION 15KV URD SWITCHING GENERAL INSTRUCTIONS	MACRO
---------------	--	-------

GENERAL INSTRUCTIONS FOR SWITCHING 15KV URD ELBOWS

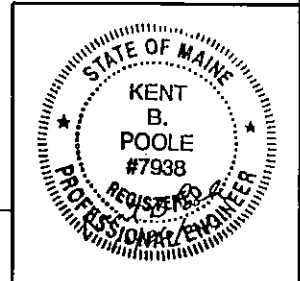
- 1) BACKUP PROTECTION All switching operations involving the use of live elbows at 15 kV and below must be protected by a fuse. The circuit breaker or recloser feeding the circuit may be put on "DO NOT RECLOSE" if the person in charge deems it necessary.
- 2) USE A GRIPALL HOTSTICK with an elbow puller or an elbow removal tool. This equipment is designed to be operated with a hotstick.
- 3) HAVE SOLID FOOTING AND ROOM TO WORK. If solid footing is not available, or room to work is inadequate, deenergize and ground the line at some other location, and carry out the work deenergized.
- 4) KEEP EQUIPMENT CLEAN AND DRY. In foul weather, or if dirt or dust has built up on terminals, deenergize and ground the line at some other location, protect from water and remove all dirt and dust before operating.
- 5) HAVE A PLACE TO PUT THE ELBOW. Before removing an elbow have a feed thru bushing solidly mounted in a parking stand with one end uncovered and freshly lubricated ready to receive the elbow. Do not lay down or otherwise bring an energized elbow near another conductor or grounded surface.
- 6) ROTATE CLOCKWISE BEFORE PULLING. Do not pull away while rotating, hold the elbow or receptacle in place and twist to break it loose, then pull away with a fast, firm, straight motion,
- 7) LINE UP BEFORE CLOSING. Place the elbow over the bushing and push until the first slight resistance is felt. This position is where the arc follower pin first meets the contacts in the bushing. DO NOT HOLD IN THIS POSITION, PUSH THE ELBOW HOME WITH A FAST FIRM STRAIGHT MOTION. Use force enough to fully seat the elbow on the first try. Any hesitation may damage the equipment beyond salvage.

NOTE: DO NOT PULL 34.5 OR 19.9 ELBOWS LIVE

DESIGNED	CS
DRAWN	REC
DATE	10/01/01

DESIGNED	EVG
DRAWN	SGD
DATE	03/22/88

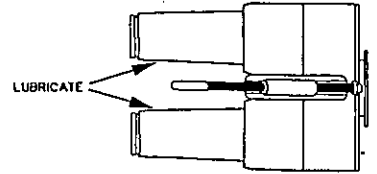
BE REVISED ON THE
CADD SYSTEM ONLY



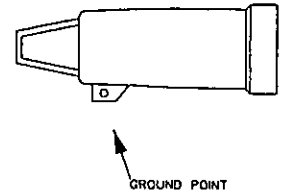
GENERAL INSTRUCTIONS FOR SWITCHING 15 KV URD ELBOWS
CONTINUED

DESIGNED	REVISOR	REVISION	DATE
CS			
REC			
DATE			10/29/01

8) LUBRICATE. Before each use, remove both insulating receptacles from the feed thru bushing, clean and lubricate the outside surface of the feed thru bushing that the elbows fit over with silicone grease. USE ONLY THE SPECIAL SILICONE GREASE FURNISHED. Also clean and lubricate the inside surface of the receptacles that fit onto the bushing. Transformer bushings must be deenergized and grounded before cleaning and lubricating.



9) GROUND SHIELDING. Connect separate #14 ground wires to the grounding point of each insulating receptacle and twist tight. Connect to ground, leaving enough slack to place the feed thru bushing in the parking stand with a grip-all hotstick, and to remove the insulating receptacles and replace them in the transformer bushings, as needed.

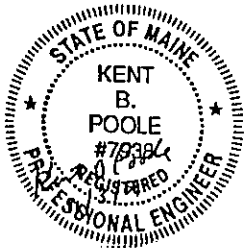


10) GROUNDING ELBOW. Connect the grounding elbow lead to the neutral with slack enough to reach any bushing to be grounded.

11) TEST RDDS. Test rods are used to insert into a transformer bushing plug and/or a feed-thru bushing, then tested with a tic tester, static scope or any other company approved test equipment. Test rod eye and disc are not insulated and must be treated as energized whenever in a bushing.

DESIGNED	ORIGINAL
SGD	EVC
DATE	02/29/88

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



PAGE 368-4	DESCRIPTION URD SWITCHING PROCEDURE CABLES	MACRO
---------------	---	-------

TO REMOVE CABLE FROM SERVICE

Before working on any cable, it must be de-energized, tested, grounded and tagged. A feed thru bushing and a grounding elbow will be needed for each terminal of the cable. A grip-all hotstick, elbow puller, test rod, and a tic tracer or static scope or any other Company approved test equipment are needed for the job. If in doubt, de-energize and ground the line at some other point before proceeding, and do the work de-energized.

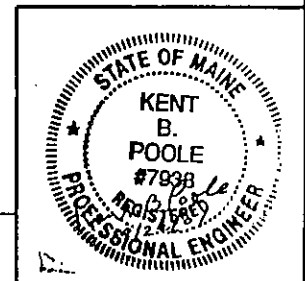
- A. Clean and lubricate the feed thru bushings and the insulating receptacles according to General Instruction B. Reassemble the insulating receptacles to the feed thru bushings.
- B. Ground the insulating receptacles with separate No. 14 wires long enough to allow operating them with the hotstick, in accordance with General Instruction 9.
- C. Attach the grip-all hotstick firmly to the feed thru bushing eye, slide the feed thru bushing into the parking stand, and tighten until snug. (DO NOT OVER TIGHTEN).
- D. Connect the grounding elbow lead solidly to a ground, with slack enough to allow using with a hotstick. Put the grounding elbow in a clean, dry place.
- E. Remove the insulating receptacle from the end of the feed thru bushing nearer the cable to be de-energized, following General Instruction 6. Place in a clean dry place.
- F. Transfer the elbow from the transformer bushing to the feed thru bushing, following General Instructions 2, 3, 4, 6 and 7.
- G. Place the insulating receptacle on the transformer bushings, using the grip-all hotstick and elbow puller. Be sure it is solidly seated.
- H. Repeat above procedure for all other terminals of the cable.
- I. When the last terminal has been transferred to a feed thru bushing, test the cable. USE THE HOTSTICK to remove the second insulating receptacle from the feed thru bushing and insert the test rod. Using the hotstick test the rod with a Tic Tracer, static scope or other Company approved test equipment. Immediately on completing the test, remove the test rod with a hotstick.
- J. Ground the cable by inserting the grounding elbow in the feed thru bushing. Use the hotstick and a fast, firm straight-line motion. DO NOT GROUND unless the cable tested de-energized. IF THROUGH ERROR AN ENERGIZED CABLE IS GROUNDED, DO NOT ATTEMPT TO REMOVE THE GROUNDED ELBOW, BUT HOLD IT SOLIDLY IN PLACE UNTIL THE FUSE HAS CLEARED, OR THE RECLOSER LOCKED OUT. The grounding elbow and feed thru bushing involved must not be reused, but must be junked.
- K. Repeat test step I and ground step J for all other terminals of the cable.

Upon completion of the cable work, the cable should be reenergized by reversing the above procedure. IF A FAULTY OR GROUNDED CABLE IS ENERGIZED, DO NOT ATTEMPT TO BACK-OFF THE ELBOW, BUT HOLD IT SOLIDLY IN PLACE UNTIL THE FUSE HAS CLEARED OR THE RECLOSER LOCKED OUT. The arc follower pin contact and the loadbreak bushing involved in closing in on a faulted or ground cable must be replaced. If the elbow appears to have been damaged, the entire elbow must be replaced.

DESIGNED	CS
DRAWN	REC
DATE	10/01/01

DESIGNED	HEP
DRAWN	SGD
DATE	09/24/87

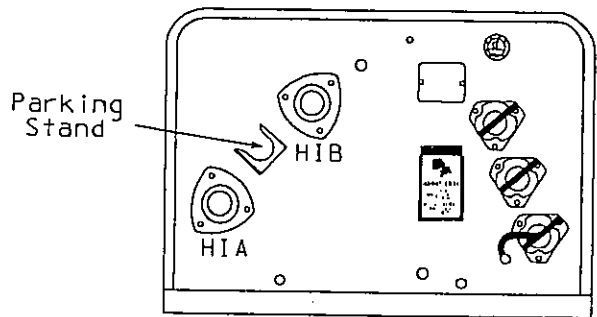
BE REVISED ON THE
CAAD SYSTEM ONLY



TO BYPASS TRANSFORMER. Read all instructions before starting. If in doubt de-energize and ground at some other point and carry out work de-energized.

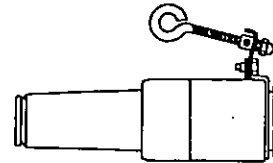
- A. Check back-up protection according to general instructions.
- B. Lubricate the feed thru bushing and insulating receptacle according to Step 8 of General Instructions. Put the insulating receptacles in a clean, dry place.
- C. Grip the feed thru bushing firmly by the eye with a grip-all hotstick, slide into the parking stand, and tighten down the eye snugly. **DO NOT OVERTIGHTEN.**

DESIGNED	DRAWN	DATE	REVISED	REVISED
		09/11/01	CS	
			REC	



Front View

Side View Portable Feedthru with mounting bracket, grounding lug and eyebolt



Side View

- D. Remove the elbow from the transformer bushing according to general instructions 2, 3, 4 and 6.
- E. Insert the pin of the elbow into the feed thru bushing and push until it is firmly seated per general instructions 5 and 7.
- F. Transfer the second elbow, following sequence of D and E.
- G. If the transformer is to be removed, cover the bushings with the plastic dust caps from the new replacing transformer, and remove the feed thru bushing complete with attached elbows from the parking stand.

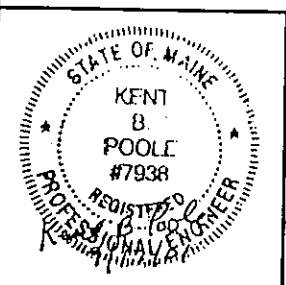
If the transformer is not to be removed, be sure the transformer bushings are clean, and place the insulating receptacles on the transformer bushings.

TO ENERGIZE TRANSFORMER. If a new transformer is being installed, clean and lubricate the transformer bushings before setting it in place, place the feed thru bushing complete with attached elbows in the parking stand, and reverse the procedure for bypassing the transformer.

If the transformer was not replaced, but was bypassed to work on it, on completion of the work remove the insulating receptacles, put in a clean, dry place, and reverse the procedure for bypassing the transformer.

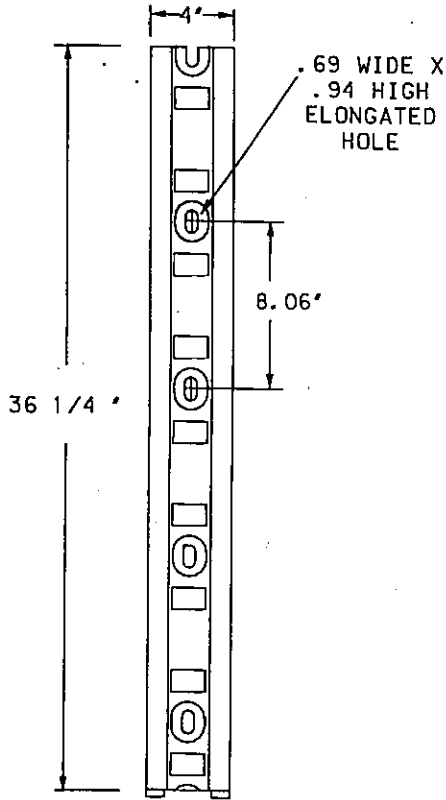
DESIGNED	DRAWN	DATE	ORIGINAL	EVG	RCE
		04/30/76			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

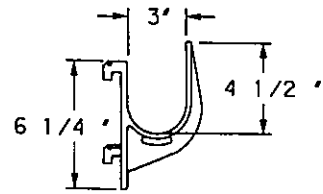




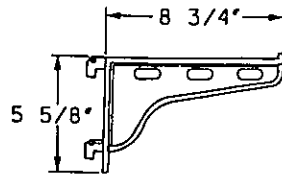
NO.	REVISION	DATE	CHK.



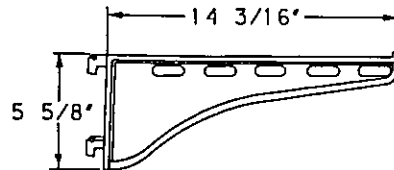
36" STANCHION
MID# 92708
CU# C6UDCRSTAN36



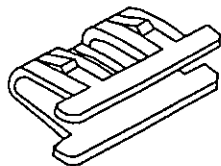
3" SADDLE
MID# 6000213753
CU# C6UDCRSADDLE3



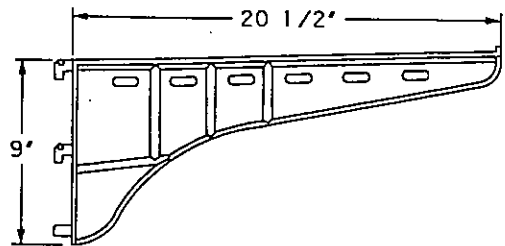
8" ARM
MID# 92316
CU# C6UDCRARM8



14" ARM
MID# 92337
CU# C6UDCRARM1 4



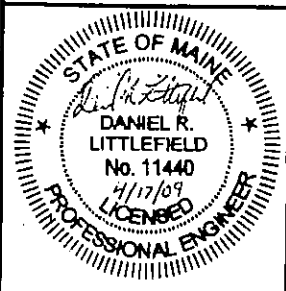
ARM LOCK
(NOT TO SCALE)
MID# 6000213729

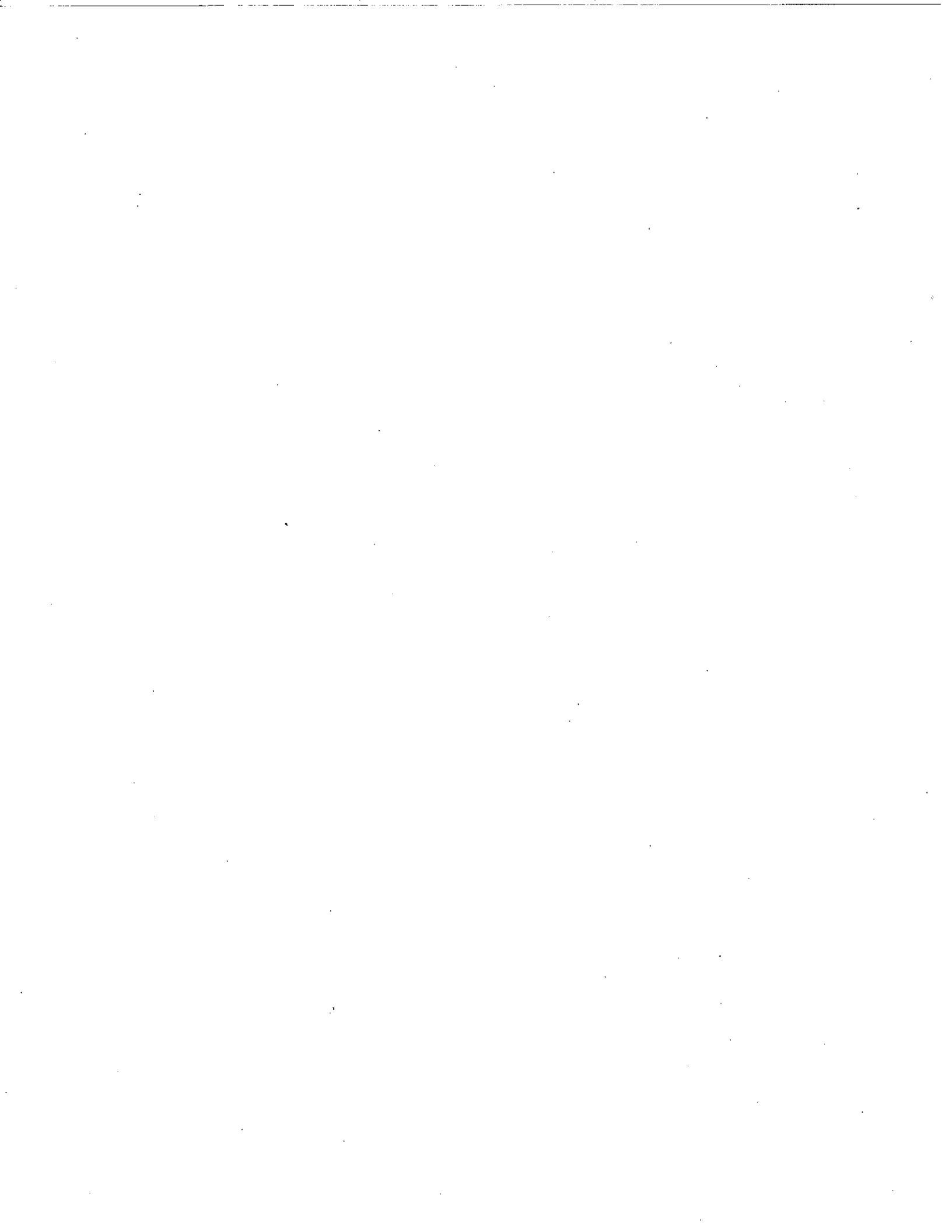


20" ARM
MID# 92403
CU# C6UDCRARM20

DESIGNED	CS
DRAWN	REC
DATE	02/12/09

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY









MACRO	DESCRIPTION TIES - GENERAL	PAGE 370
-------	-------------------------------	-------------

TIES

All ties on copper conductors shall be made with solid, soft drawn copper wire. #6 AWG shall be used on conductors smaller than #2 AWG, and #4 AWG on #2 AWG and larger.

All ties on Aluminum, AAAC, or ACSR conductors shall be made with #4 AWG soft drawn aluminum wire.

Aluminum tie wire must not be used on copper conductors, nor copper tie wire on aluminum conductors. The combination will result in rapid corrosion of the aluminum.

All ties shall go in a counter-clockwise direction going away from the insulator.

A side tie shall be used on any corner with a 3' or larger pull.

Bare ties shall be used on all bare or weatherproof conductors operating at voltages in excess of 5 kV; it is necessary to skin primary weatherproof type wire the full length of the tie; be sure to skin enough weatherproof off wire on either side of insulator. A tight contact must be maintained between primary wire, tie wire, and insulator to prevent radio interference. Where tree wire or spacer cable is used, bare wire shall not be used for ties.

Regular ties (refer to 370-1) shall be used for all tying-in not done with hot line tie sticks. Care should be used to see that the ends of the tie wire are left in such a manner that they can be removed with hot line tools but no ring is necessary.

Hot line ties (refer to 370-2 and 370-3) shall be used only when tying-in with hot line sticks. Hot line ties should be replaced with regular ties whenever convenient to do so.

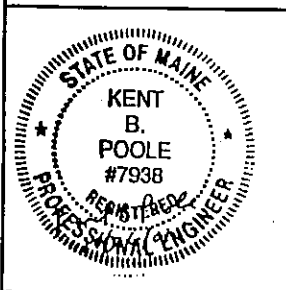
When tying hot line ties, the loop should be as close as possible to the conductor to prevent radio noise. The loop should not be over one loop diameter from the conductor. Also, when making loops, the twisted end of the tie wire at the base of the loop should be in as close as possible to prevent sharp projections which cause radio noise.

Wire ties shall not be reused.

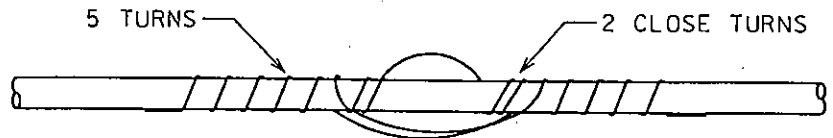
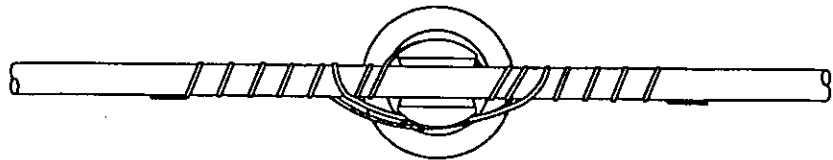
DESIGNED	REVISION	REVISION	REVISION
ORAWN	REORAWN	CS	
DATE	JRP	CMH	
	06/23/98	0/01/01	

DESIGNED	HEP	ORIGINAL
DRAWN	GRG	
DATE	05/02/90	

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

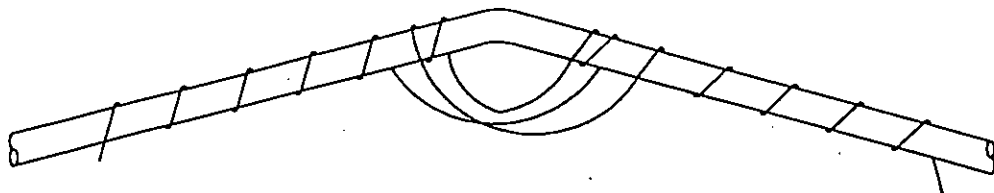
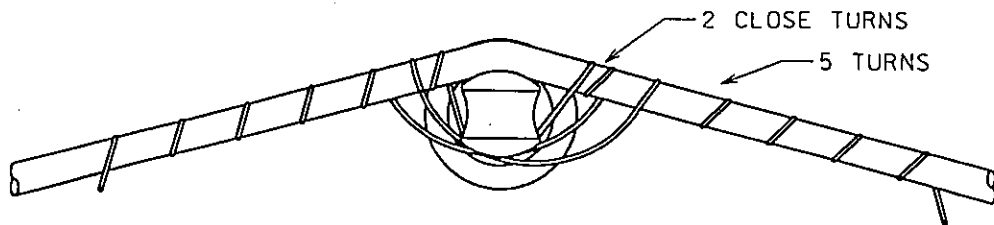


TOP TIE

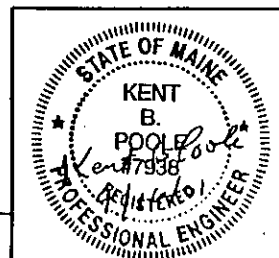


DOUBLE INSULATORS TOP TIES SHALL BE THE SAME AS SINGLE INSULATOR TOP TIES. THE TURNS BETWEEN THE INSULATORS SHALL BE WRAPPED AS CLOSE TOGETHER AS POSSIBLE SO THAT ALL OF THE TURNS CAN BE MAOE.

SIDE TIE - SINGLE INSULATOR



DOUBLE INSULATORS TOP TIES SHALL BE THE SAME AS SINGLE INSULATOR TOP TIES. THE TURNS BETWEEN THE INSULATORS SHALL BE WRAPPED AS CLOSE TOGETHER AS POSSIBLE SO THAT ALL OF THE TURNS CAN BE MAOE.



DESIGNED	REDRAWN	CS
DRAWN	JRP	CMH
DATE	07/01/98	8/24/01

DESIGNED	RCS
DRAWN	RCE
DATE	2/01/75

THIS DRAWING SHALL BE REVISIED ON THE CADD SYSTEM ONLY

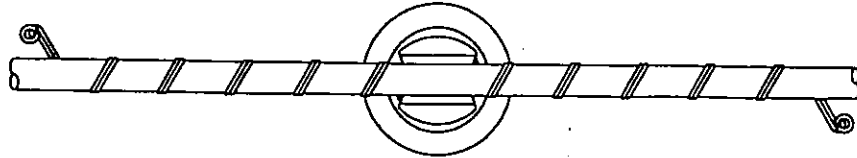


MACRO

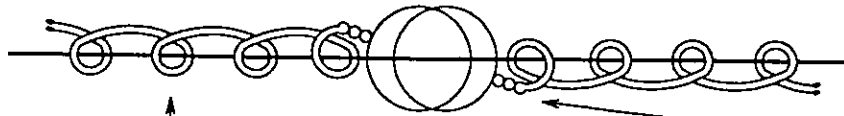
DESCRIPTION
HOT LINE TIES - SINGLE INSULATOR

PAGE
370-2

TOP TIE - SINGLE INSULATOR

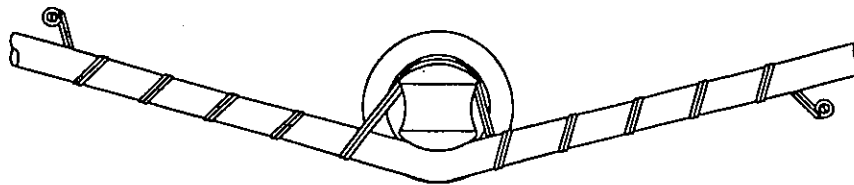


All turns are to be counter-clockwise going away from the insulator.

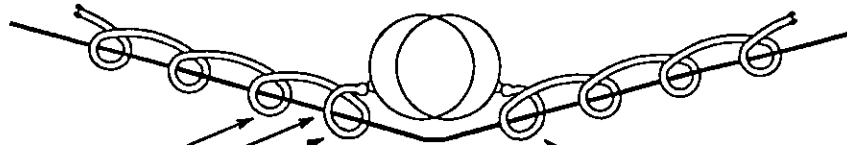


Five turns, as tight as can be wrapped with hot line tools.
Two snug twists. Do not twist so tight that the wire is weakened.

SIDE TIE - SINGLE INSULATOR



All turns are to be counter-clockwise going away from the insulator.

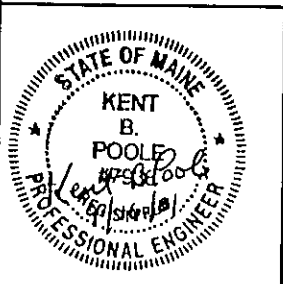


Locate under conductor
Locate above conductor
Two snug twists. Do not twist so tight that the wire is weakened.
Five turns, as tight as can be wrapped with hot line tools.

DESIGNED	REVISOR	REVISION
DRAWN	REDRAWN	CS
DATE	JRP	CMH
07/01/98		8/24/01

DESIGNED	RCS
DRAWN	RCE
DATE	1/2/01/75

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

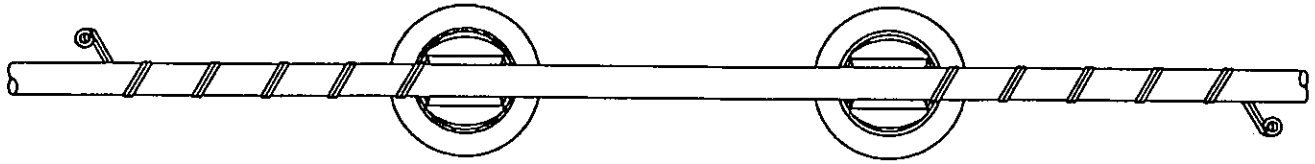


CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION STANDARDS

PAGE	DESCRIPTION HOT LINE TIES - DOUBLE INSULATOR	MACRO 370-3
------	---	----------------

TOP TIE - DOUBLE INSULATOR

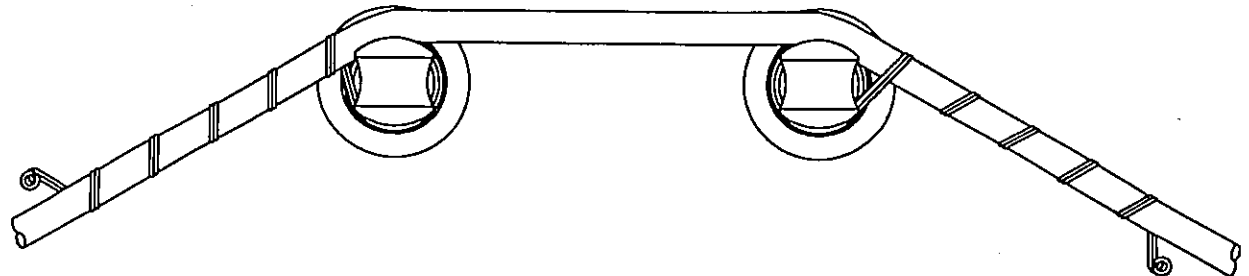


All turns are to be counter-clockwise going away from the insulator.

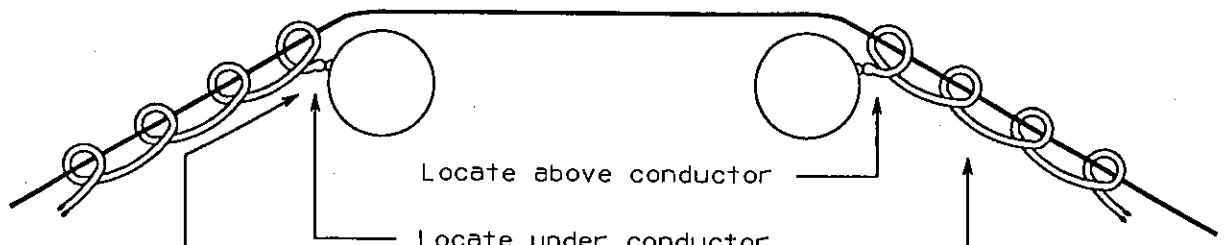


Five turns, as tight as can be wrapped with hot line tools.
Two snug twists. Do not twist so tight that the wire is weakened.

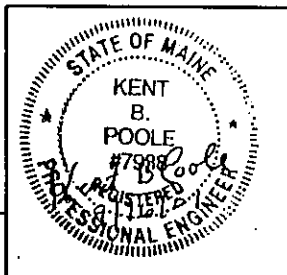
SIDE TIE - DOUBLE INSULATOR



All turns are to be counter-clockwise going away from the insulator.



Locate above conductor
Locate under conductor
Five turns, as tight as can be wrapped with hot line tools.
Two snug twists. Do not twist so tight that the wire is weakened.



DESIGNED	REDRAWN	CS
DRAWN	JRP	CMH
DATE	07/01/98	08/24/01

DESIGNED	RCS
DRAWN	RCE
DATE	12/01/75

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY







MACRO	DESCRIPTION GROUNDING GENERAL	PAGE 380
-------	----------------------------------	-------------

GROUNDING

The purpose of grounding is to limit the maximum voltage that may appear on a system with respect to ground, and thereby prevent damage to the insulation on the system. Within buildings or any set of buildings served by a single service, it is much more effective to bond objects together with a wire than it is to try to ground them individually to earth. For this reason, the National Electrical and Lightning Protection Codes place as much emphasis on bonding as on grounding.

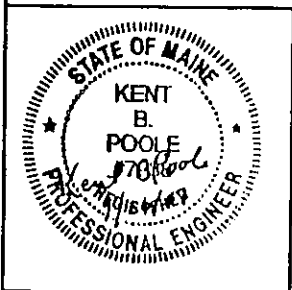
All primary lines in the CMPCo. distribution system are grounded wye. The neutral is a multi-grounded neutral (MGN) system with everything grounded (bonded) to the neutral and the neutral grounded throughout the service area. A ground shall be installed at least every quarter mile (1.6km). Grounds at individual services are not included in meeting this requirement.

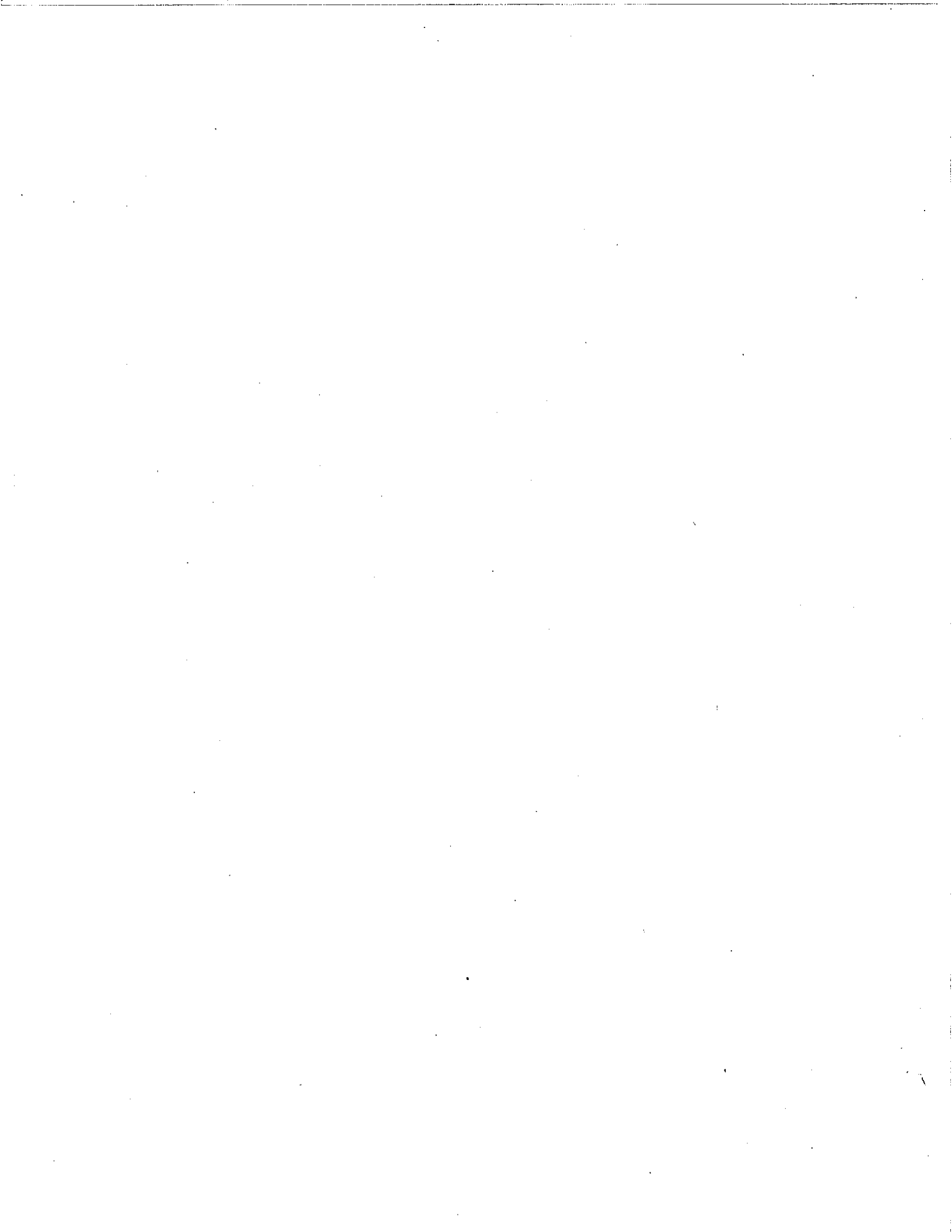
The grounding requirements of the multi-grounded neutral system are detailed on the following page.

DESIGNED	REVISED	REVISED	REVISED
CS			
DRAWN	CMH		
DATE	8/24/0		

DESIGNED	ORIGINAL
DRAWN	REDRAWN
DATE	CRG
	6/21/95

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





MACRO

DESCRIPTION
POWER CABLE GROUNDING

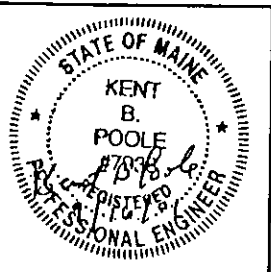
PAGE
380-2

- * All power cables shall be grounded at both ends.
- * Power cable DUCT grounding conductor size shall be of #4 CU minimum.
- * Power cable URD grounding conductor shall be no smaller than the size of the cable neutral.
- * Cable in duct and manhole system shall be grounded at each manhole, handhole, switchgear foundation and transformer foundation.
- * Cable in URD installations shall be grounded at each handhole, switchgear foundation, and transformer foundation.
- * When a cable is not spliced in a handhole or a manhole, it is not necessary to remove the cable jacket to ground the cable provided the two grounds on either side of it are less than 1320 feet apart.

DESIGNED	REVIS	REVISED	REVISED
CS			
DRAWN	CMH		
DATE	8/24/01		

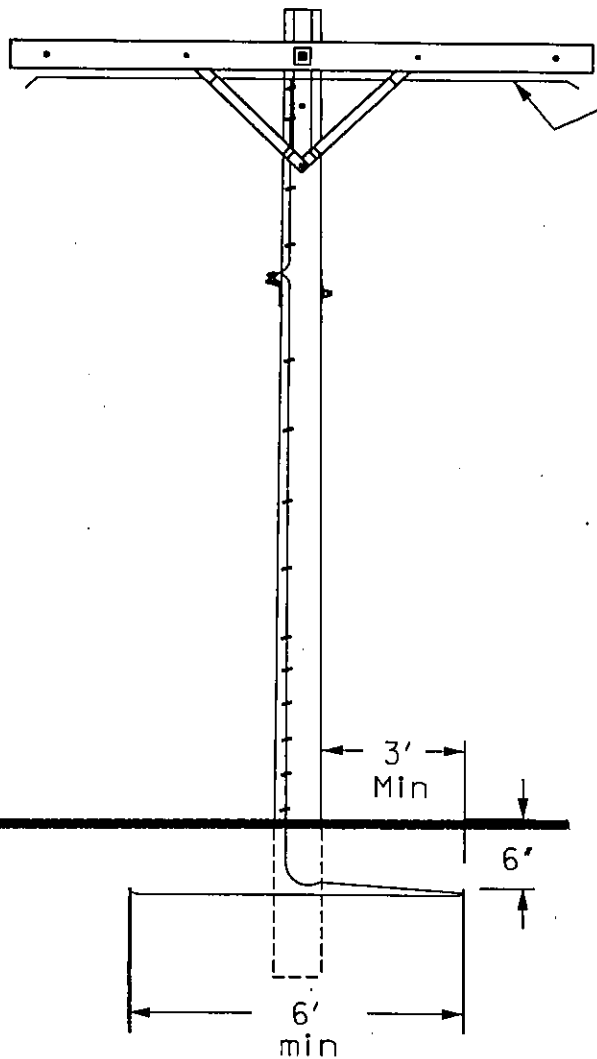
DESIGNED	ORIGINAL
LLF	
DRAWN	GRG
DATE	3/6/96

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



CENTRAL MAINE POWER CO.

DISTRIBUTION CONSTRUCTION
STANDARDS



Lightning arrester ground lead or grounded neutral lead if neutral is located on the arm. Quarter mount the ground wire on the field side.

Ground wire shall be a minimum of #4 stranded capper.

Ground rods shall be installed at least 3' from the pole when possible.

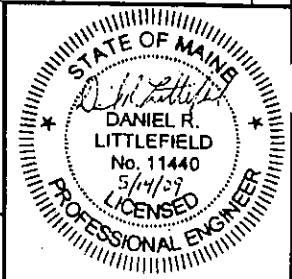
When a second ground rod is required, it must be installed at least 72' from the first ground rod.

The installation of a ground rod using power tools requires obtaining Dig Safe clearance.

See Section 93D in NESC for grounding conductor protection rules.

GOODS

Quantity	MID#	Description
1	6000112662	Clamp ground rod
1	6000113860	Tap Compression H Type (For tapping 1/0 to #6)
or 1	6000113887	Tap Compression H Type (For tapping 336.4 to #6)
1	6000251860	Rod grd 3/4" x 8' galv
as req'd	6000274402	Staples galvanized
as req'd	6000274410	Staples galvanized
as req'd	6000274402	Wire 6 cu solid



USE THESE FOR THE
CADD SYSTEM ONLY

DRAWN
DATE 10/29/01
REC.

ERCS
East

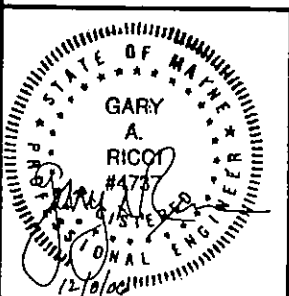
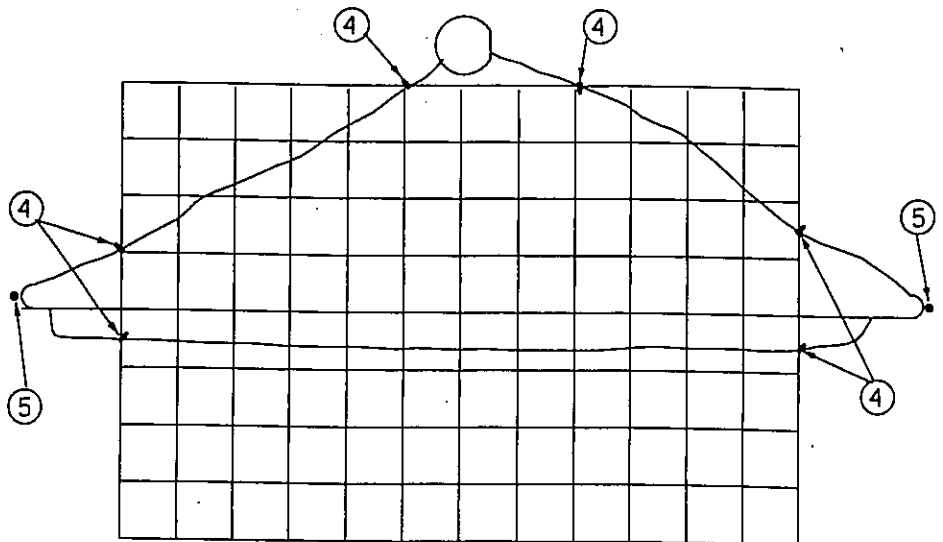
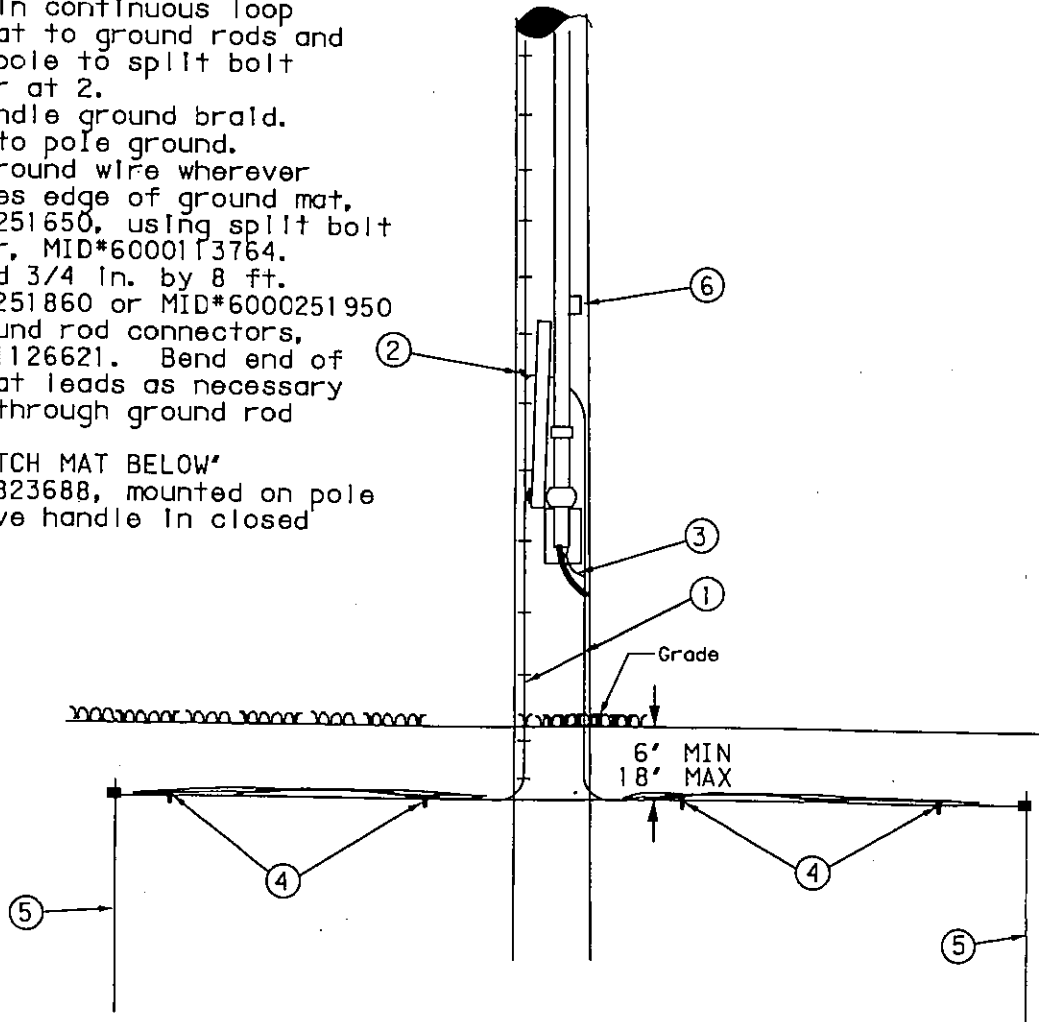
1. Pole ground. Connect to neutral.
2. Run wire in continuous loop across mat to ground rods and back up pole to split bolt connector at 2.
3. Switch handle ground braid. connect to pole ground.
4. Connect ground wire wherever it crosses edge of ground mat, MID*6000251650, using split bolt connector, MID*6000113764.
5. Ground rod 3/4 in. by 8 ft. MID*6000251860 or MID*6000251950 with ground rod connectors, MID*60001126621. Bend end of ground mat leads as necessary to pass through ground rod clamps.
6. Sign "SWITCH MAT BELOW" MID*6000823688, mounted on pole just above handle in closed position.

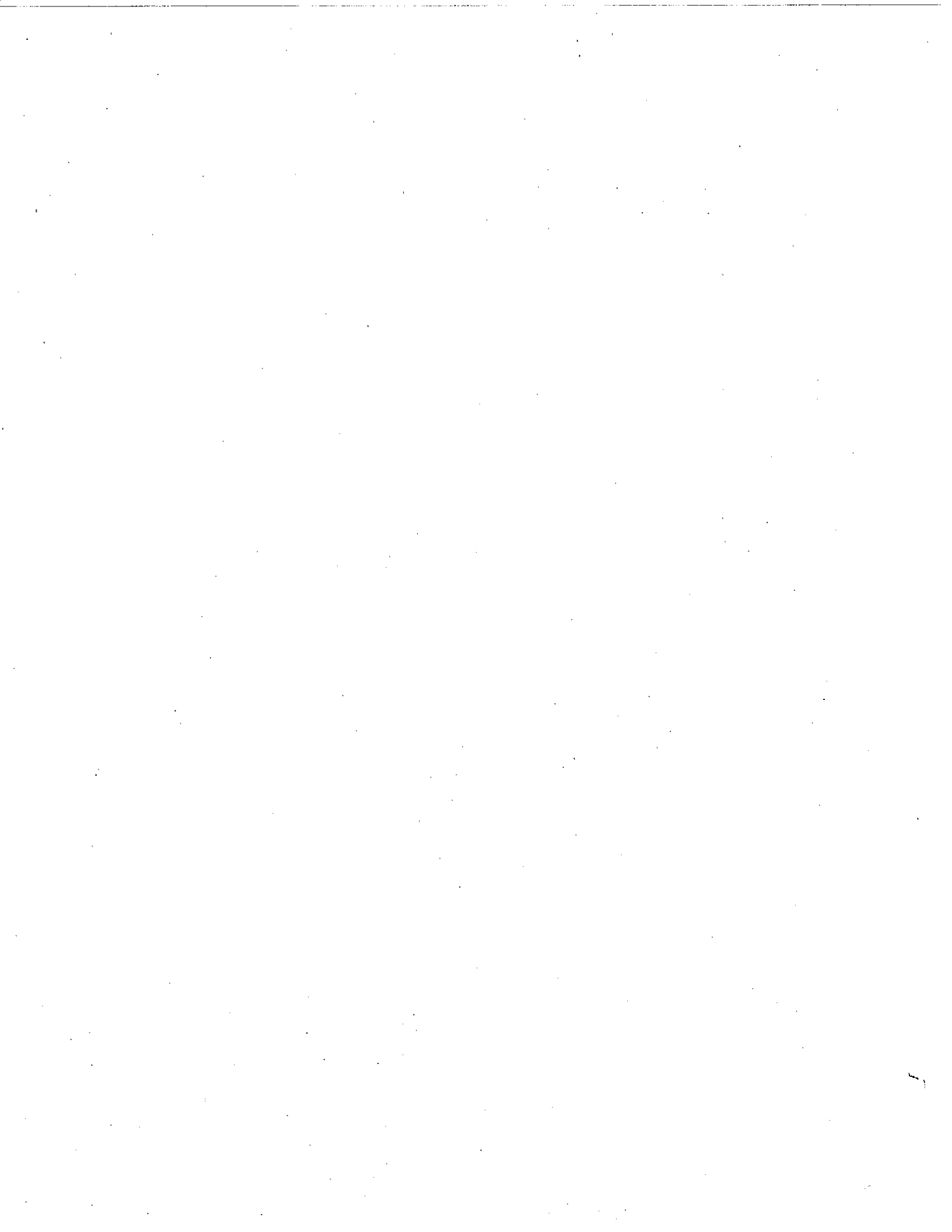
DESIGNED	REVISED	REVISED
DRAWN	CS	CS
DATE	REC	REC
10/01/01	D6/23/06	



DESIGNED	ORIGINAL
DRAWN	EVG
DATE	SGD
12/16/87	

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY









General

It is essential wherever hot line clamps are to be installed, that both line and tap conductors be wire brushed to provide clean contact surfaces. All aluminum to aluminum, aluminum to copper or copper to copper connections should be covered with connector paste prior to connector installations.

Copper Line Conductors

Taps for copper conductors shall be made with stranded copper wire - minimum size #4 AWG.

Aluminum connectors may be used for making both aluminum to aluminum and aluminum to copper connections. Copper connectors may only be used for copper to copper connections.

Aluminum Line Conductors

Taps from aluminum or ACSR conductors to copper conductors or to copper or bronze bodied equipment terminals such as cutouts, transformers, etc., shall be made with stranded copper wire - minimum size #4 AWG.

Connections of aluminum to copper shall be arranged with the aluminum on top or at the higher level.

All connections made onto 336.4 overhead primary conductor shall be made with an approved connector. The preferred method is with the Ampact Fired on Wedge Connector. For connections 336.4 to 336.4 use connector MID*192465. For connections 336.4 to 4/0 use connector MID*193224. Both connectors use the BLUE cartridge MID*197122 for installation and the RED cartridge MID*198153 for removal. The aluminum two bolt parallel groove connector 1/0-336.4 to 1/0-336.4 cu. or al. MID*6000113368 may also be used.

Heavy taps are taps that have full line current flowing through them. Such taps include: connections to cutouts, sectionalizers, reclosers, switches, regulators and similar series equipment, and transformers 167 kVA per phase or more.

Hot line clamps shall not be installed directly onto 336.4 wire. A fired on Ampact stirrup connector with a 1/0 ball MID*6000112890 shall be installed. where hot line clamps are to be used. To install 336.4 stirrup use the BLUE cartridge MID*197122 for removal use the RED cartridge MID*198153.

Hot line clamps removed from the line are to be junked and not reused.

Line Conductor		Tap WIRE		MID*	C/U Code
Type	Size	Type	Size		
AL	*6-2/0	AL or CU	*6-2/0	6000112860	C6COPC
AL	4/0	AL or CU	4/0-350	6000112876	C6COPC
AL or CU	*6-4/0	AL or CU	*6-4/0	6000112865	C6COPC

Light taps are taps that connect to the line equipment. Such taps include: pole mounted transformers less than 167 kVA per phase, capacitors, arresters, primary metering and similar equipment where limited currents are involved.

Hot line clamps shall not be installed directly onto 336.4 wire. A fired on Ampact stirrup connector with a 1/0 ball MID*6000112890 shall be installed. where hot line clamps are to be used. To install 336.4 stirrup use the BLUE cartridge MID*19722 for removal use the RED cartridge MID*198153.

Hot line clamps removed from the line are to be junked and not reused.

Line Conductor		Tap WIRE		MID*	C/U Code
Type	Size	Type	Size		
AL or CU	*8-1/0	AL or CU	*8-2/0	6000112855	C6COPC
AL OR CU	*6-4/0	AL or CU	*6-4/0	6000112865	C6COPC

Current Limiting Fuses

Line Conductor		Tap		MID*	C/U Code
Type	Size	Type	Size		
CU	*4-2/0	Current Limiting Fuse		6000112822	C6CDHC4CUC/L
AL	*4-1/0	Current Limiting Fuse		6000112838	C6CDHC4ALC/L
AL	2/0-397	Current Limiting Fuse		6000112842	C6CDHC2/OALC/L

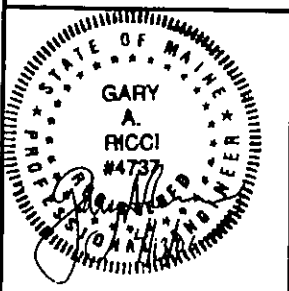
Hot line clamps having C/U Code must be charged on work report.



DESIGNED	JEC	CS	CS
DRAWN	GRG	REC	REC
DATE	3/28/94	10/04/01	10/21/06

DESIGNED	REDRAWN	GRG	CS
DRAWN	GRG	12/10/93	REC
DATE			

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



EnergyEast

PAGE 390-1	DESCRIPTION SPLICES AND DEADENDS	MACRO
---------------	-------------------------------------	-------

GENERAL SPLICE AND DEADENDS

Splices: Copper conductors shall be spliced with an approved compression sleeve or automatic splice. Conductor shall be thoroughly clean and straight for the full length to be inserted in the splice. Automatic splices must be tensioned enough to set the splice solidly, do not use in slack spans.

A line splice made for a particular size conductor shall not be used on a conductor of a different size. All transitions from one conductor to another shall be made at deadend structures.

Line splices shall not be installed in any span crossing railroads, federal highways, or foreign utility lines, or in spans adjacent to these crossings, unless, in making emergency repairs, where such an installation is unavoidable.

Line splices shall be at least two feet from any pole when making splices on an existing line or for building new lines.

Aluminum, AAAC or ACSR conductor shall be spliced with an approved compression sleeve or automatic splice. When using a compression sleeve on an aluminum AAAC or ACSR conductor, the conductor shall be wire brushed and a liberal amount of inhibitor paste applied under the sleeve unless the sleeve is pre-filled by the manufacturer. The inhibitor paste should be applied immediately after brushing to prevent formation of an aluminum oxide film on the conductor. No inhibitor paste should be used on the steel strand sleeve of a two-part ACSR compression splice.

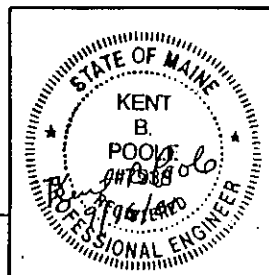
Full tension splices shall be used for splicing primary and secondary conductor in the span. Reduced tension compression splices shall be used for splicing primary and secondary jumpers on deadend poles and for splicing service drop cable. Non-tension splices shall be limited to splicing service drop conductors to service entrance conductors. They shall not be placed in the span. When using an automatic splice, the conductor shall be wire brushed until thoroughly clean, and shall be straight for the full length to be inserted in the splice. No inhibitor paste is needed, since automatic splices are prefilled. Automatic splices must be tensioned enough to set the splice solidly, do not use in slack spans.

Deadends: All conductors shall be deadended in an approved deadend device.

DESIGNED	CS
DRAWN	REC
DATE	08/24/01

DESIGNED	REDRAWN
DRAWN	CRG
DATE	10/31/96

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



MACRO	DESCRIPTION	PAGE
	SLEEVE AND DEADEND HOLDING REQUIREMENTS	390-2

SLEEVE AND DEADEND HOLDING REQUIREMENTS

Full Tension Sleeve must hold 95% of the rated conductor strength of the weaker of the conductors being joined.

All automatic sleeves and deadends must have for tension a minimum of 15 percent of the conductor strength to maintain proper electrical connection.

Partial Tension Sleeve must hold 40% of the rated conductor strength of the weaker of the conductors being joined.

Minimum Tension (Non-Tension) Sleeve must hold 5% of the rated conductor strength of the weaker of the conductors being joined but , not less than:

200lb for conductor combinations larger than #6 AWG

100lb for conductor combinations in which the weaker conductor is #6 AWG or smaller.

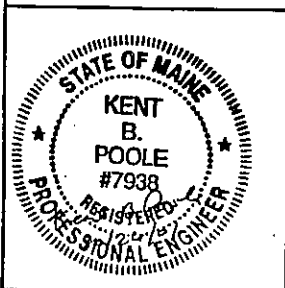
These requirements are for compression and automatic sleeve. They also apply to automatic deadends.

ANSI C119.4-1991 Paragraph 4.4.3

DESIGNED	REVISOR	REVISION
DRAWN	CS	
DATE	REC	
	10/01/01	

DESIGNED	ORIGINAL
DRAWN	JEC
DATE	GRG
	11/1/96

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



PAGE 390-3	DESCRIPTION RECOMMENDED TORQUE VALUES FOR BOLTED CONNECTORS	MACRO
---------------	--	-------

RECOMMENDED TORQUE VALUES FOR BOLTED CONNECTORS

Tightened Force Applied to Hardware: Following are recommended initial torque values applied to all clamping hardware used in connectors and fittings.

NOTE:

Care should be taken to prevent sealant from being applied to bolt since torque values will be affected if the bolts becomes lubricated with sealant.

Bolt Diameter	Recommended Torque Non-Lubricated Galvanized Steel, Stainless Steel and Silicon Bronze Bolts		Recommended Torque-Lubricated and Aluminum Bolts	
	LB. INCHES	LB. FEET	LB. INCHES	LB. FEET
5/16"	180	15	120	10
3/8"	240	20	168	14
1/2"	480	40	300	25
5/8"	660	55	480	40
3/4"	840	70	650	54.2

Table based on data from ANSI C119.4-1991, Table 1, and Anderson and Burndy Catalog Reference Sections.

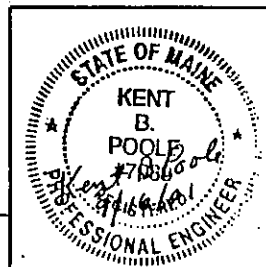
DESIGNED	CS
DRAWN	CMH
DATE	8/24/01

DESIGNED	JEC
DRAWN	GRC
DATE	11/4/96

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY

DISTRIBUTION CONSTRUCTION STANDARDS

CENTRAL MAINE POWER CO.







These requirements apply to installations owned by Central Maine Power. Central Maine Power will not create, review or approve a specification or layout of a customer owned installation. A Company engineer shall approve any part of an installation in which the Company owns equipment.

Separate neutral and ground conductors shall be used in all underground lighting circuits. The neutral and grounding conductors shall only be bonded together where the lighting circuit begins. The grounding conductor shall be bonded to any conductive lighting equipment such as posts or equipment enclosures.

There shall be a fuse installed where the lighting circuit begins. The total number and size of the lamps in the circuit will determine this fuse size. Each structure shall be fused in the access hole at the base of the post. In the case of a single lamp close to the beginning of the circuit, the fuse at the beginning shall be sufficient and no further equipment shall be needed. Fuses shall be sized so that coordination is maintained between the first fuse and all downstream fuses.

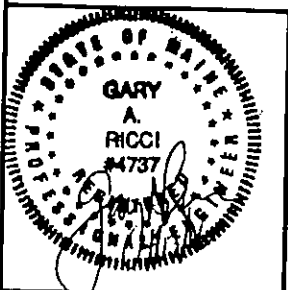
Installations using cable larger than #6 AWG shall have a separate handhole at the base of each post. A handhole that might encounter vehicular traffic shall be designed to withstand H-20 loading. Any connection made in the handhole shall be made using an approved submersible connector.

DESIGNED	REVISOR	REVISION
DRAWN	NCC	
DATE	REC	
	03/14/06	

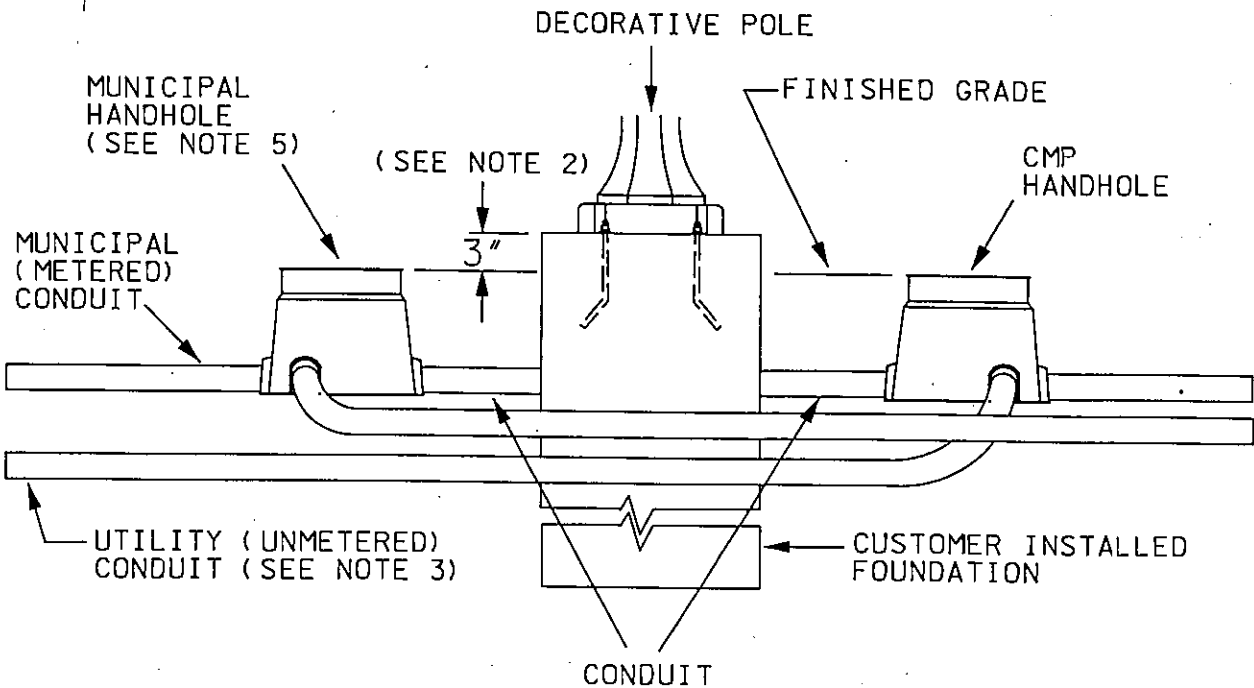


DESIGNED	ORIGINAL
DRAWN	NCC
DATE	REC
	02/07/06

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



LAYOUT TO BE USED WHERE OUTLETS TO BE
INSTALLED IN DECORATIVE POLES



NOTES:

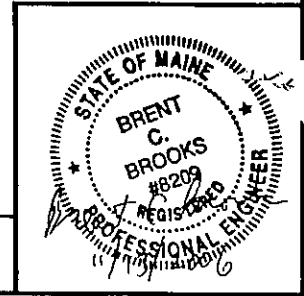
1. FOUNDATIONS TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
2. UNLESS OTHERWISE REQUIRED BY DESIGN, FOUNDATION SHALL BE INSTALLED NOT LESS THAN 3' ABOVE FINISHED GRADE.
3. ALL CMP CONDUITS TO BE A MINIMUM OF 2' PVC.
4. MUNICIPAL HANDHOLE IS SUPPLIED, INSTALLED, PER MANUFACTURERS SPECIFICATION, AND MAINTAINED BY THE CUSTOMER.
5. ALL HANDHOLES WILL HAVE SECURITY LOCKS.
6. MUNICIPAL AND CMP WIRES TO BE IN THE SAME RACEWAY ONLY IN THE POST.

DRAWN	
DATE	

Eng
ast

DRAWN	REC
DATE	10/16/06

BE REVISED ON THE
CADD SYSTEM ONLY

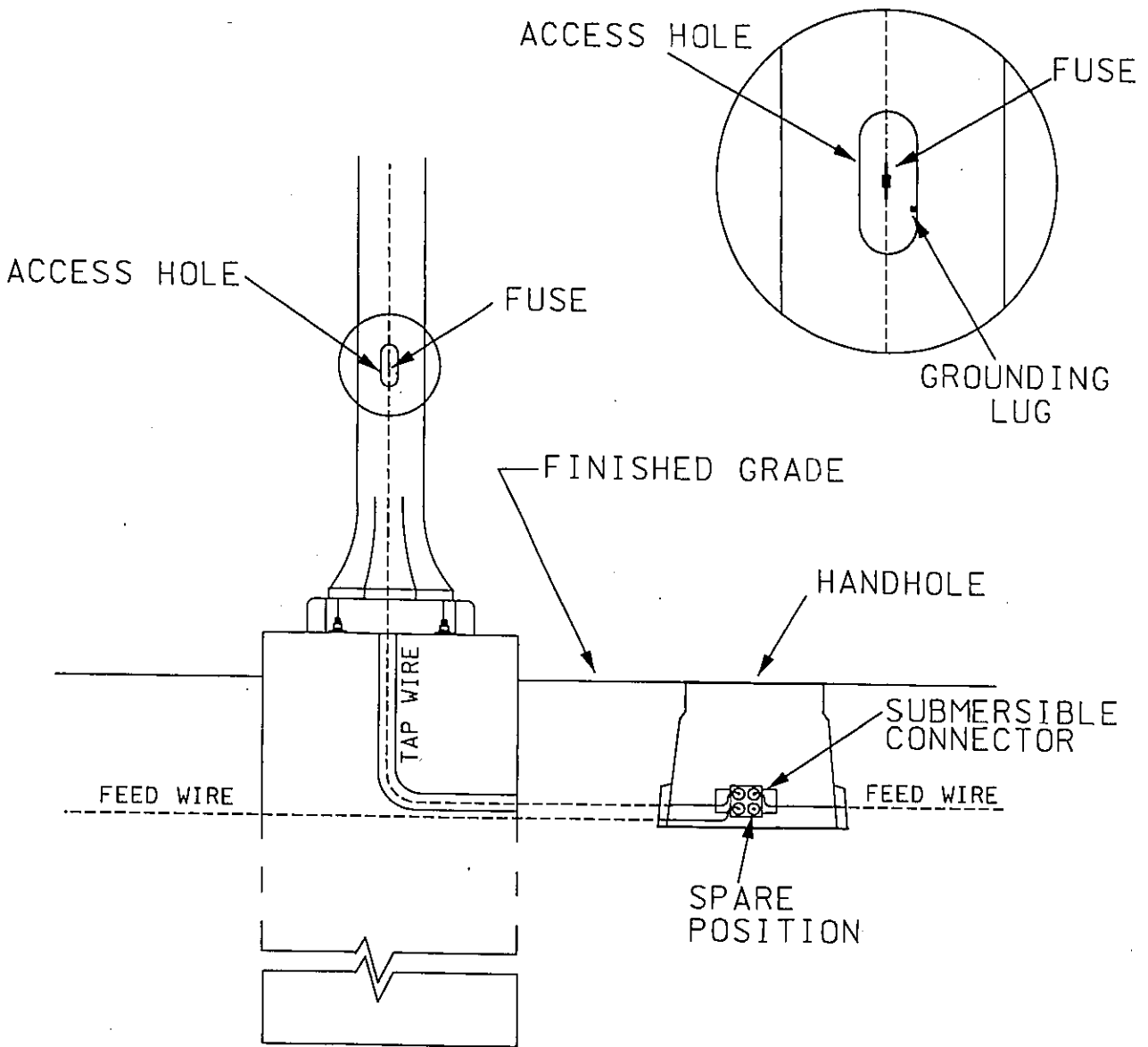


DESIGNED	REVIS	REVIS	REVIS
DRAWN	REVIS	REVIS	REVIS
DATE			



DESIGNED	NCC	REC	DATE
DRAWN			02/07/06

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



NOTE: A SUBMERSIBLE CONNECTOR IS REQUIRED FOR EACH HOT LEG, NEUTRAL AND GROUND. THE GROUND WIRE SHALL BE BONDED TO THE GROUNDING LUG ON THE POST.



Fuse and fuse holders: Each fuse shall require a fuseholder. The fuse holder will be determined by the conductor metal used, as described below. Fuse holders are approved for both solid and stranded conductor.

Fuses:

MATERIAL ID* 6000600106 COMPATIBLE UNIT* C6LDF6AMP	KTK-6, 600V, 6AMP FUSE
MATERIAL ID* 6000600120 COMPATIBLE UNIT* C6LDF10AMP	KTK-20, 600V, 20 AMP FUSE
MATERIAL ID* 6000600110 COMPATIBLE UNIT* C6LDF20AMP	KTK-10, 600V, 10 AMP FUSE

Fuse Holders:

		LINE TERMINAL	LOAD TERMINAL
HEB-JJ	MATERIAL ID* 6000600100 COMPATIBLE UNIT* C6LDFH12/3	Copper Set Screw #12 - #3	Copper Set Screw #12 - #3
HEB-JL	MATERIAL ID* 6000600101 COMPATIBLE UNIT* C6LDFH12/2T012/3	Aluminum Set Screw #12 - #2	Copper Set Screw #12 - #3
HEB-LL	MATERIAL ID* 6000600102 COMPATIBLE UNIT* C6LDFH12/2	Aluminum Set Screw #12 - #2	Aluminum Set Screw #12 - #2

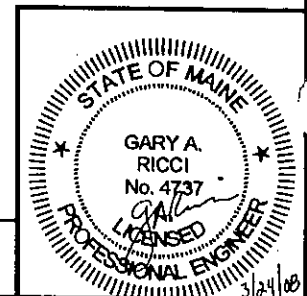
Submersible piercing connector: Material ID# 6000113250
Compatible Unit #C6LDCSUB12T04/0

Handhole: Material ID# 70000350 - Fiberglass box pad with poly concrete cover 12' X 12' X 18' for H-20 loading.
Compatible Unit
C6LDJ1ZPVT

CADD SYSTEM ONLY

DRAWN
DATE 03/15/06
REC

ENERGY
RST



PLANT IDENTIFICATION LUMINAIRE MARKING

Ballasted luminaires will be shipped with coded labels to denote lamp type and size. The coding has been implemented in order to provide visual ground level identification of a luminaire's lamp size and type. The coding will consist of a 2" black number printed on a 3" X 3" colored polyester label. The color of the label will denote the type of lamp and the number on the label will indicate the size of the lamp. The label shall be located on the underside of the luminaire on the pole side of the fixture lens.

DESIGNED	REVISER	REVISED	REVISED
DRAWN	NCC		
DATE	REC		
	02/21/06		



DESIGNED	ORIGINAL
DRAWN	EVG
DATE	HEP
	04/30/84

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

Lamp	Label Color	Label Number	MATERIAL ID#
50 W Sodium	Gold	5	6000815488
70 W Sodium	Gold	7	6000815489
100 W Sodium	Gold	10	6000815490
150 W Sodium	Gold	15	6000815491
250 W Sodium	Gold	25	6000815492
400 W Sodium	Gold	40	6000815493
1000 W Sodium	Gold	X1	N/A
70 W Metal Halide	Red	7	N/A
100 W Metal Halide	Red	10	N/A
175 W Metal Halide	Red	17	N/A
250 W Metal Halide	Red	25	N/A
400 W Metal Halide	Red	40	N/A
1000 W Metal Halide	Red	X1	N/A

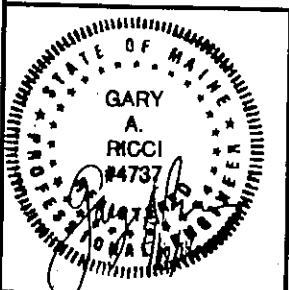


PHOTO ELECTRIC CONTROLS AND HIGH INTENSITY DISCHARGE LAMPS

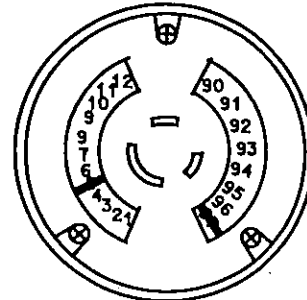
PHOTO ELECTRIC CONTROL

SCOPE

This standard provides a method for marking the installation date (month and year) of Photo Electric Controls and High Intensity Discharge Lamps (High Pressure Sodium and Metal Halide). To address items covered by manufacturers warranties, actual installation dates must be known.

PHOTO ELECTRIC CONTROL (EYE)

Illustrated is a bottom view of our standard eye. The date of installation should be marked by scratching/ marking a line through the month (numbered 1-12) and the year as shown. Example indicates an installation date of May 1997.

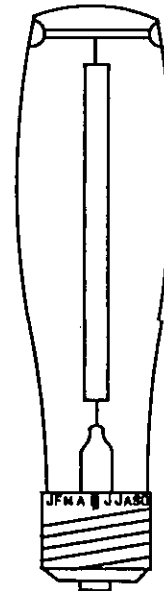


(BOTTOM VIEW)

HIGH INTENSITY DISCHARGE LAMP

HIGH INTENSITY DISCHARGE LAMPS (H.I.D.)

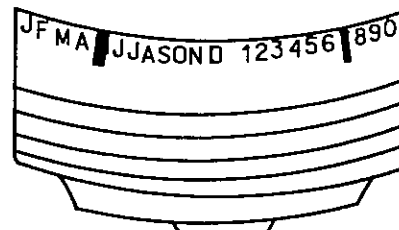
Illustrated is a side view of an H.I.D. lamp. The date of installation should be marked by using a waterproof marking pen (felt-tip) and drawing a line through the month and last digit of the year as shown. Example indicates an installation date at May 1997. (Crossing out the imprinted date with the marker will result in a permanent record of the installation date.)



RELAMPING

At the time of relamping, the fixture reflector and refractor-lens shall be wiped with a dry cloth.

NOTE: USE CAUTION WHEN MARKING INSTALLATION DATE ON H.I.D. LAMPS. IF THE GLASS ENVELOPE IS ACCIDENTALLY SCRATCHED IT MAY RESULT IN PREMATURE LAMP FAILURE.



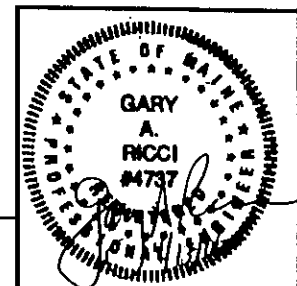
(SIDE VIEW)

DESIGNED	NCC
DRAWN	REC
DATE	08/11/05

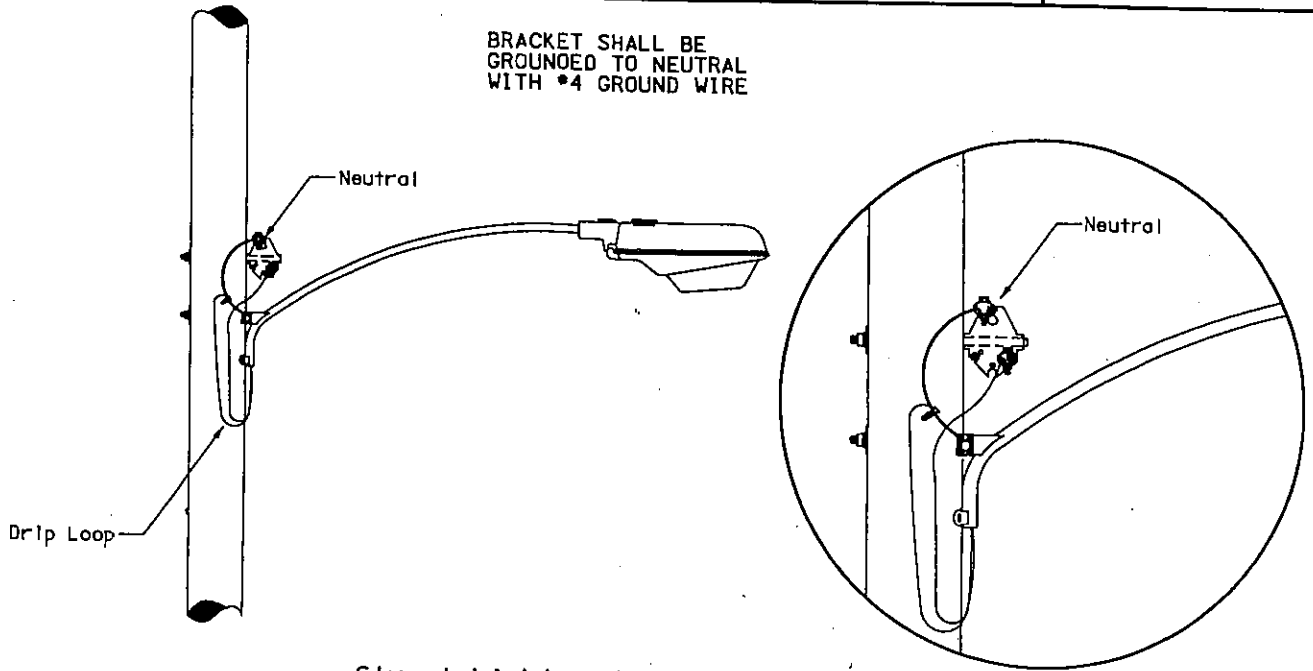


DESIGNED	NCC
DRAWN	REC
DATE	02/07/06

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

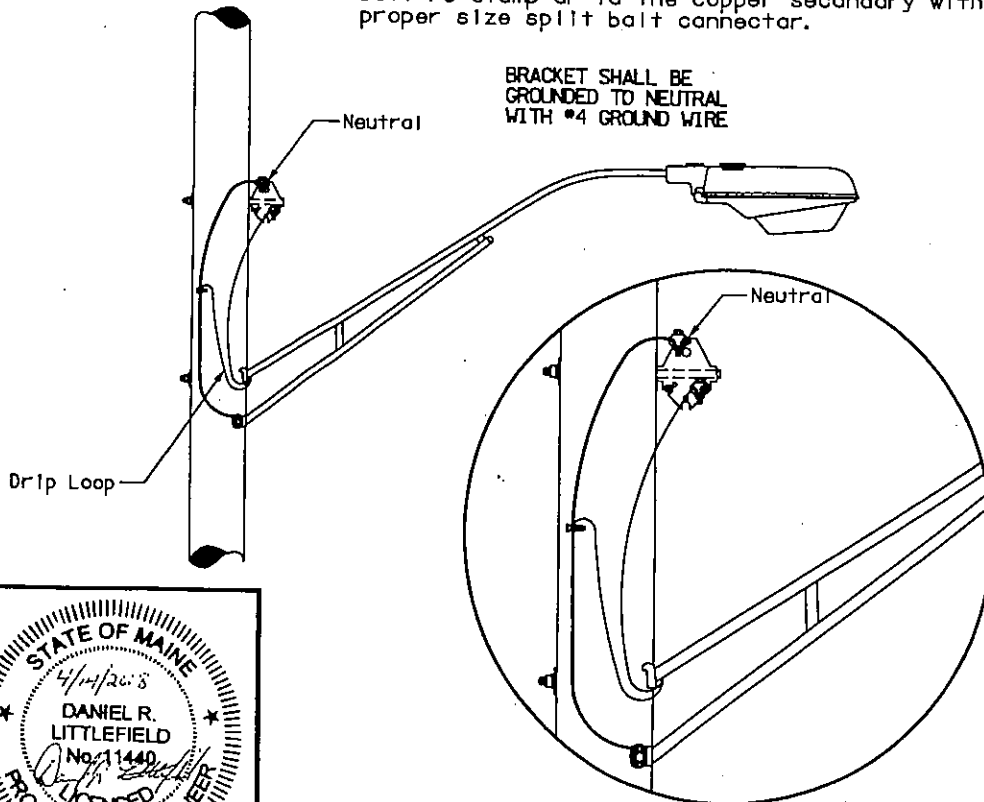


NO.	REVISION	DATE	BY
1	Corrected spelling error in note #3	04/10/08	



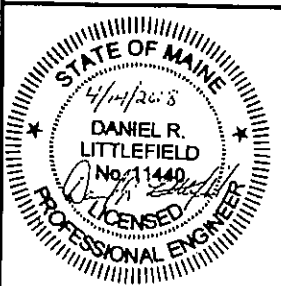
Street Light and Area Light Connections

- 1.) A piece of #4 stranded copper ground wire shall be connected from the street light bracket to the neutral.
- 2.) The #12 street light neutral wire (white) shall be connected with a copper split bolt (MID#6000113772) to the piece of #4 stranded copper ground wire. (Installed in step 1)
- 3.) The #12 street light hot wire (black) shall be connected to the aluminum secondary using a single bolt PG clamp or to the copper secondary with the proper size split bolt connector.

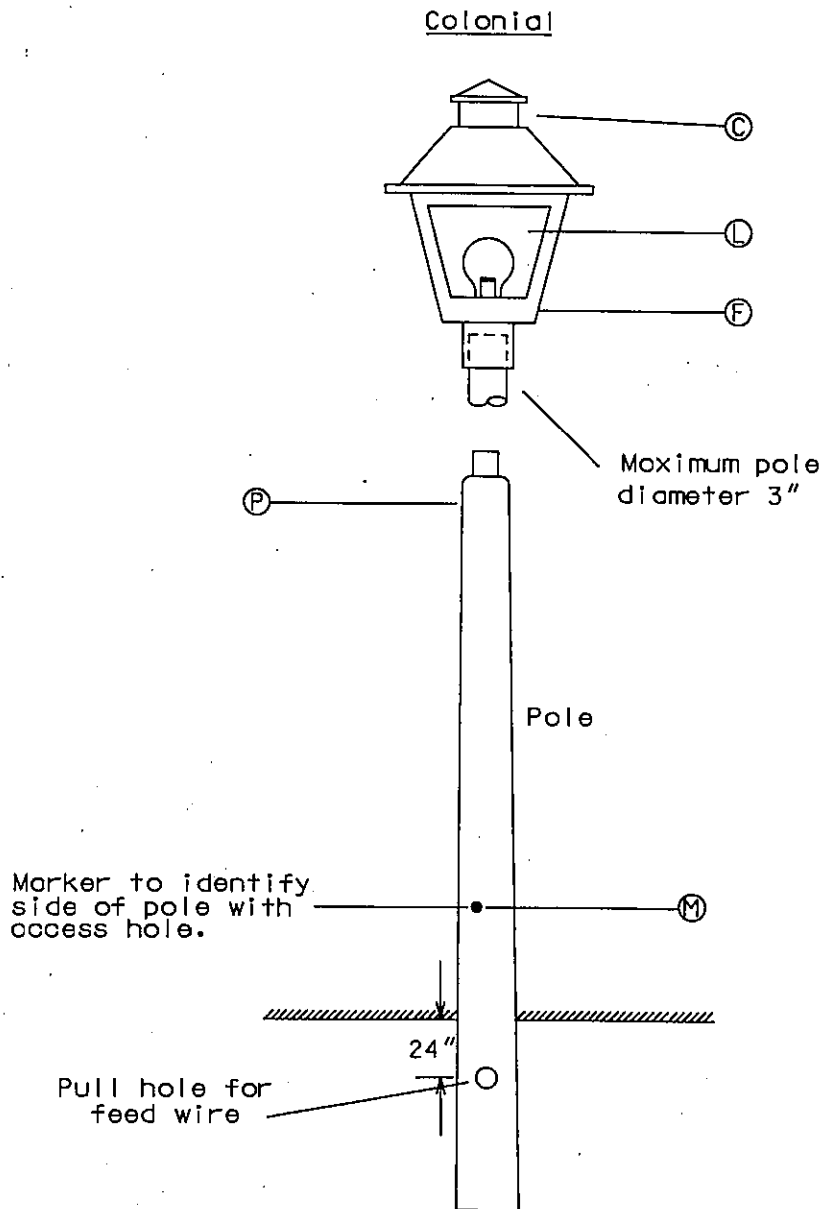


ORIGINAL	NCC
DESIGNED	REC
DRAWN	DATE
	02/21/06

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



NOTE: Photo control window shall face north.

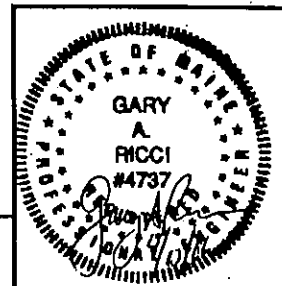


DESIGNED	
DRAWN	
DATE	



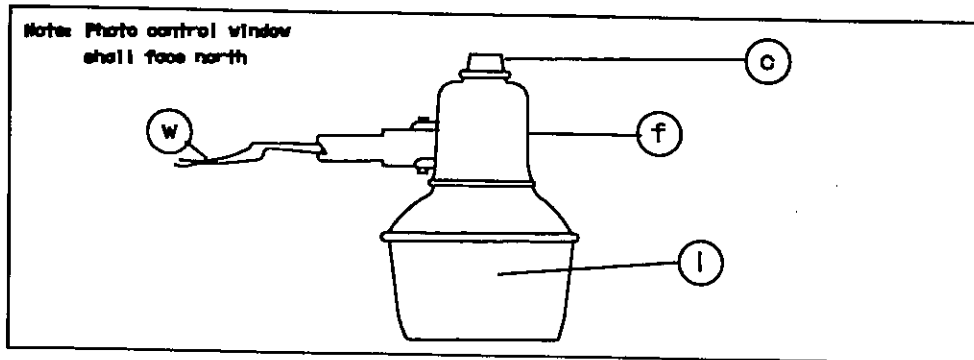
DESIGNED	NCC
DRAWN	REC
DATE	02/07/06

Quantity	Item	MATERIAL ID*	Description
1	F	6000602710	Colonial Post Tap fixture 100W Sodium
or 1	F	6000602712	Colonial Post Tap fixture 150W Sodium
1	P	6000604110	Wood Laminated Pole, 20'
or 1	P	6000604080	Wood Laminated Pole, 36'
1	L	60006032XX	Lamp Sodium
1	C	6000600090	Photo Control
1	M	6000815551	Pole Date Marker



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

DESIGNED	REVISED	REVISED	REVISED
DRAWN			
DATE			



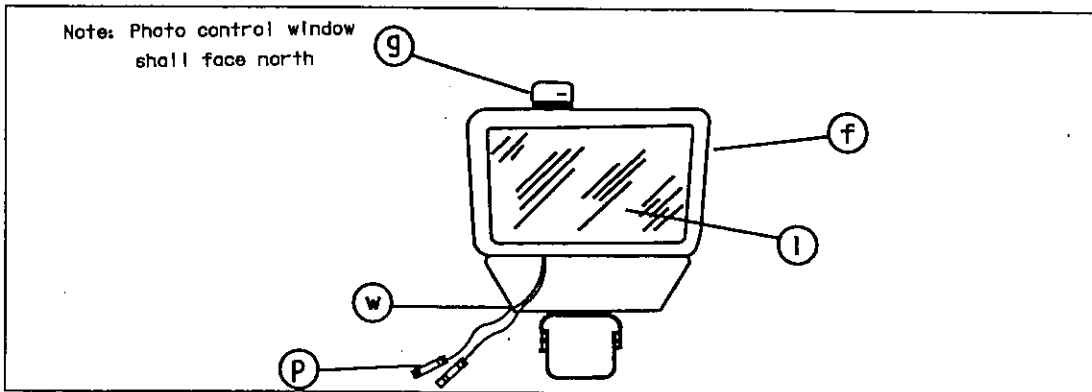
70 W	MATERIAL ID#	Item	Description
1	6000602647	f	70 W Sodium Open Fixture
1	6000603210	l	70 W HP Sodium Lamp
1	6000600090	c	Photo Control
10ft.	6000207176	w	RHW 7 Str*12 (black)
10ft.	6000207199	w	RHW 7 STR*12 (white)



DESIGNED	ORIGINAL
DRAWN	NCC
DATE	REC
	02/07/06

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





ITEM	QUANTITY	MATERIAL ID#	DESCRIPTION
f	1	6000602840	150W Fixture, HP Sodium Flood
f	1	6000602830	250W Fixture, HP Sodium Flood
f	1	6000603020	400W Fixture, HP Sodium Flood
f	1	6000602845	1000W Fixture, HP Sodium Flood
l	1	6000603XXX	Lamp, HP Sodium
g	1	6000600090	Photo Control
w	8 ft.	6000207176	RHW 7 Str#12 (black)
w	8 ft.	6000207199	RHW 7 Str#12 (white)
p	2	6000113200	CL PG 1B 6-1/0 Connector

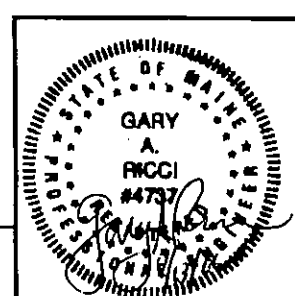
ITEM	QUANTITY	MATERIAL ID#	DESCRIPTION
f	1	6000591130	175W Fixture, Metal Halide Flood
f	1	6000591145	250W Fixture, Metal Halide Flood
f	1	6000591160	400W Fixture, Metal Halide Flood
f	1	6000591170	1000W Fixture, Metal Halide Flood
l	1	60006038XX	Lamp, Metal Halide
g	1	6000600090	Photo Control
w	8 ft.	6000207176	RHW 7Str#12 (black)
w	8 ft.	6000207199	RHW 7 Str#12 (white)
p	2	6000113200	CL PG 1B 6-1/0 Connector

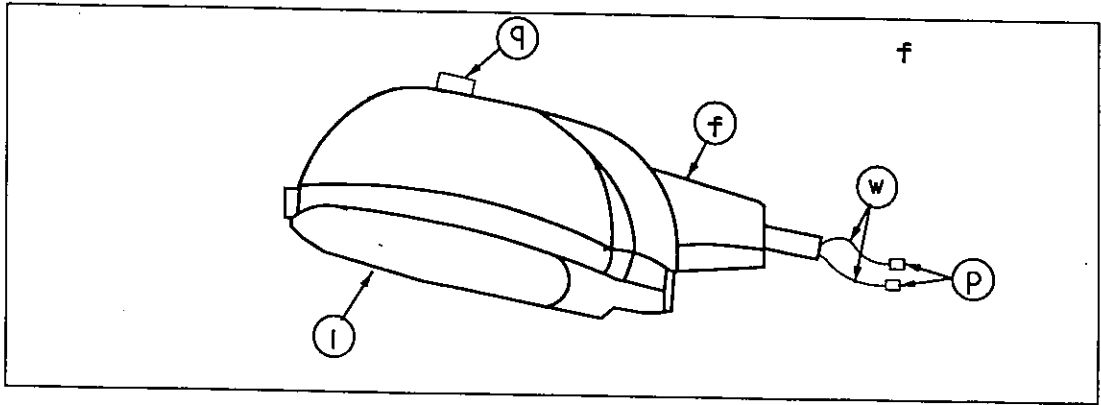
DESIGNED	
DRAWN	
DATE	



DESIGNED	NCC
DRAWN	REC
DATE	02/07/06

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY





DESIGNED	REVISED	REVISED	REVISED
DRAWN			
DATE			



ORIGINAL	NCC	REC	02/07/06
DESIGNED			
DRAWN			
DATE			

ITEM	QUANTITY	MATERIAL ID#	DESCRIPTION
f	1	6000590980	250W Fixture, HP Sodium Mongoose Close In
f	1	6000590988	250W Fixture, HP Sodium Mongoose Vector
f	1	6000590984	250W Fixture, Metal Halide Mongoose Close In
f	1	6000590992	250 W fixture, Metal Halide Mongoose VECTOR
f	1	6000590982	400 W fixture, HP Sodium Mongoose Close In
f	1	6000590990	400 W fixture, HP Sodium Mongoose Vector
f	1	6000590986	400 W fixture, Metal Halide Mongoose Close In
f	1	6000590994	400 W fixture, Metal Halide Mongoose Vector
I	1	6000603XXX	Lamp, HP Sodium
I	1	60006038XX	Lamp, Metal, Halide
q	1	6000600090	Photo Control
w	8ft	6000207176	RHW 7 Str#12 (black)
w	8ft	6000207199	RHW 7 Str#12 (white)
P	2	6000113200	CL PG 1B 6-1/0 Connector

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



DESCRIPTION
MINIMUM BRACKET SIZE FOR GIVEN
FIXTURE SIZE AND BRACKET LENGTH

MACRO

This chart can be used to determine the size of a bracket when the size of the fixture and bracket length is known. These are the minimum size brackets, which can be used for each fixture.

Fixture Description	Bracket Length				
	6 Ft.	8 Ft.	10 Ft.	15 Ft.	20 Ft.
HP Sodium Open 70W	1 1/4" AI	1 1/4" AI	2" AI	2" AI	2" AI
HP Sodium Cutoff 50W	1 1/4" AI	2" AI	2" AI	2" AI	2" AI
HP Sodium Cutoff 70W	1 1/4" AI	2" AI	2" AI	2" AI	2" AI
HP Sodium Cutoff 100W	1 1/4" AI	2" AI	2" AI	2" AI	2" AI
HP Sodium Cutoff 150W	1 1/4" AI	2" AI	2" AI	2" AI	2" AI
HP Sodium Cutoff 250W	2" AI	2" AI	2" AI	2" AI	2" AI
HP Sodium Cutoff 400W	2" AI	2" AI	2" AI	2" AI	2" AI
Metal Halide Cutoff 175W	1 1/4" AI	2" AI	2" AI	2" AI	2" AI
Metal Halide Cutoff 250W	2" AI	2" AI	2" AI	2" AI	2" AI
Metal Halide Cutoff 400W	2" AI	2" AI	2" AI	2" AI	2" AI

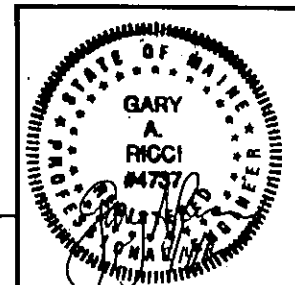
DESIGNED	
DRAWN	
DATE	



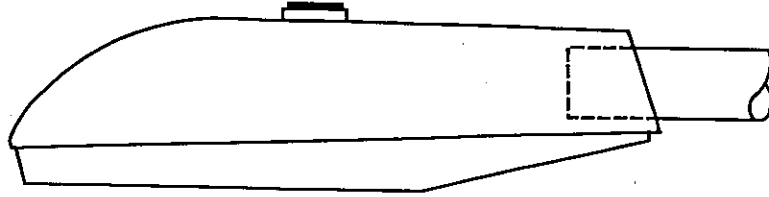
EAST

DESIGNED	RWH
DRAWN	REC
DATE	02/21/06

THIS DRAWING SHALL BE REVISED ON THE CAD SYSTEM ONLY



	REVIS	REVISED	REVISED
DESIGNED			
DRAWN			
DATE			



Recommended Height of Fixture from Lighted Surface When Mounted on Standard 6' or 8' Bracket.

HP Sodium

- 50W 25ft.
- 70W 25ft.
- 100W 25ft.
- 150W 30ft.
- 250W 30ft.
- 400W 30ft.

Metal Halide

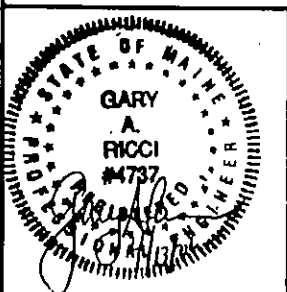
- 175W 25ft.
- 250W 28ft.
- 400W 30ft.

NOTE: Installed height of fixture will vary depending on bracket being utilized.

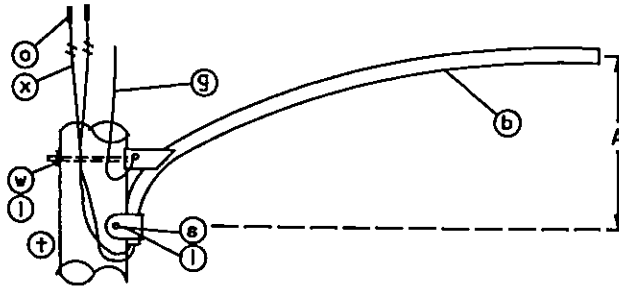


	ORIGINAL	NCC	02/07/06
DESIGNED		REC	
DRAWN			
DATE			

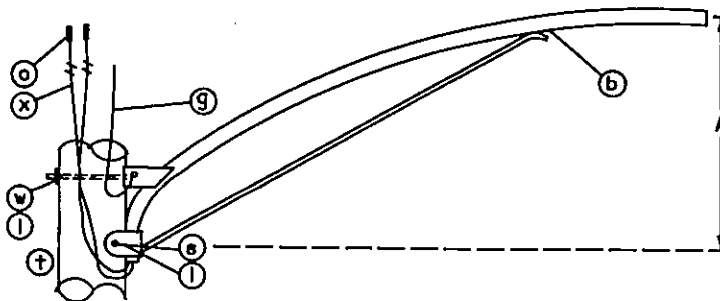
THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY



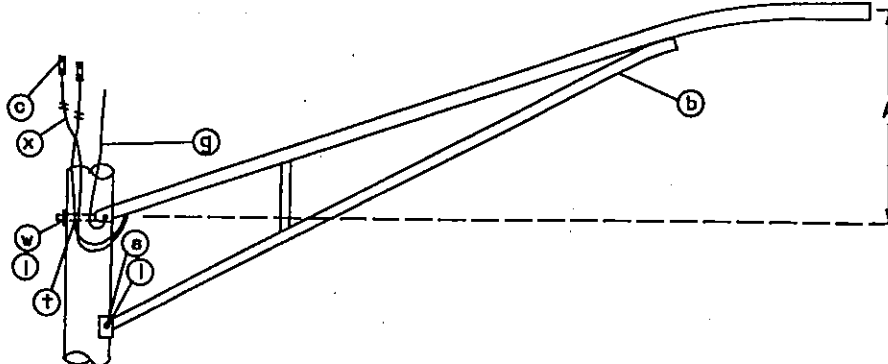
6 Ft. Bracket



6 & 8 Ft. Bracket

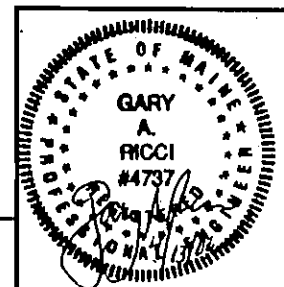


10, 15, & 20 Ft. Bracket



6, 8, 10, 15, & 20 Foot. Brackets

ITEM	MATERIAL ID#	DESCRIPTION	A
b	6000600770	6' X2' Alum. Bracket, UP Sweep	28'
b	6000600800	6' X2' Steel Bracket, Cantilever	24'
b	6000600700	6' X1 1/4' Alum. Bracket, Underbrood	28'
b	6000600730	6' X1 1/4' Alum. Bracket, Underbrood	30'
b	6000600920	10' X2' Alum. Bracket	39'
b	6000600980	15' X2' Alum. Bracket	39'
b	6000601010	20' X2' Alum. Bracket	39'
g	6000206302	Wire, 7 Str. #4	
t	600027208X	Thru Bolt	
l	6000274890	Washer, Sq 4' X4' X3/16"	
w	6000274590	Washer, Spring	
e	6000272540	Toe Bolt 1/2' X4"	
x	6000207176	RHW 7 Str #12 (black)	
x	6000207199	RHW 7 Str #12 (white)	
c	6000113200	CL PG 1B 6-1/0 Connector	



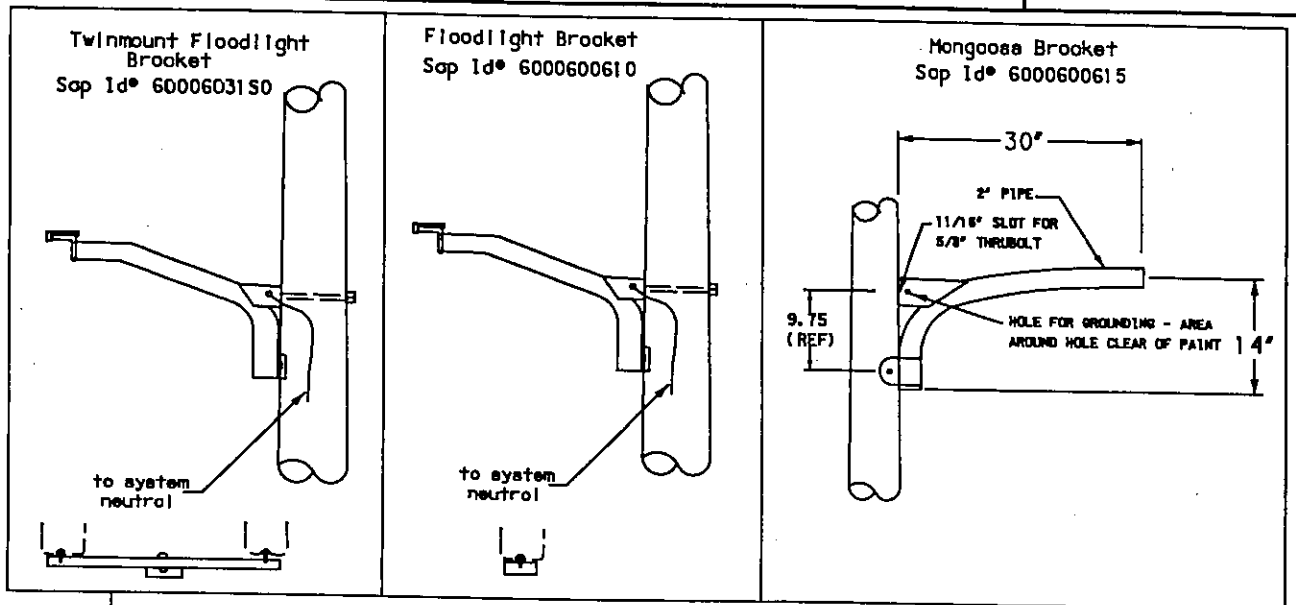
DESIGNED	
DRAWN	
DATE	



DESIGNED	NCC
DRAWN	REC
DATE	02/06/06

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY





	REVISED	REVISED	REVISED
	DESIGNED	DRAWN	DATE

	ORIGINAL	NCC	REC
	DESIGNED	DRAWN	DATE
			03/01/06

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

COMPONENTS

Flood Light or Mongoose	Flood Light twin	MATERIAL ID#	Description
Flood Light 1 only	1	6000600610	30" Steel bracket
	1	6000603150	Floodlight Twinmount Arm
Mongoose 1 only		6000600615	30" Mongoose Bracket only
2	2	6000272540	Bolt toe 1/2" x 4"
2	2	6000274590	Washer two turn spring 1/2"
1	1	6000274840	Washer 4" x 4" x 3/16"
1	1	6000272084	Bolt thru 5/8" x 10"
or 1	or 1	6000272086	Bolt thru 5/8" x 12"
or 1	or 1	6000272088	Bolt thru 5/8" x 14"
1	1	6000274600	Washer two turn spring 5/8"
as req'd		6000276302	Wire BC 7 Str #4 12'



SODIUM FIXTURES

MATERIAL ID*	Lamp Watts	Ballast Type	Line Amps		Fuse Size
			Start	Operating	
6000602645	50	NPF Reactor	1.5	1.2	6A
6000602655	70	NPF Reactor	2.0	1.6	6A
6000602685	100	NPF Reactor	2.9	2.2	6A
6000602735	150	NPF Reactor	4.5	3.3	10A
6000602745	250	Auto-Regulator	2.6	2.6	6A
6000602775	400	Auto-Regulator	3.0	3.9	10A
6000602845	1000	Auto-Regulator	5.6	9.6	20A

METAL HALIDE FIXTURES

MATERIAL ID*	Lamp Watts	Ballast Type	Line Amps		Fuse Size
			Start	Operating	
6000591120	175	NPF Reactor	1.6	1.8	6A
6000591135	250	NPF Reactor	2.0	2.5	6A
6000591150	400	NPF Reactor	3.5	4.0	10A
6000591170	1000	NPF Reactor	9.0	6.6	20A

NOTE: Fuses shall be sized at 150% of the start or operating amps, whichever is higher. For example, a lighting circuit of three 70 W sodium fixtures shall require a 10 amp fuse at the beginning of the circuit, with each fixture using a 6 A fuse, as shown above.



DESIGNED
DRAWN
DATE

East

DESIGNED
DRAWN
DATE
NCC REC
03/15/06

THIS DRAWING SHALL BE REVISIONED ON THE CAD SYSTEM ONLY



INCANDESCENT LAMPS

Watts	MATERIAL ID#	Base Type	Fixture Lumen	Life (Hours)	Volts
58	6000603390	Med	600	3,000	125
105	6000603420	Med	1,000	12,000	125
205	6000603480	Med	2,500	12,000	125

MERCURY LAMPS

Watts	MATERIAL ID#	Life (Hours/Years)
100	6000603839	24,000/4
175	6000603809	24,000/4
250	6000603780	24,000/4
400	6000603750	24,000/4
1000	6000603690	24,000/4

HIGH PRESSURE NON-CYCLING SODIUM

Watts	MATERIAL ID#	Life (Hours/Years)
50	6000603200	30,000/6
70	6000603210	30,000/6
100	6000603240	30,000/6
150	6000603270	30,000/6
250	6000603300	30,000/6
400	6000603330	30,000/6
1000	6000603420	30,000/6

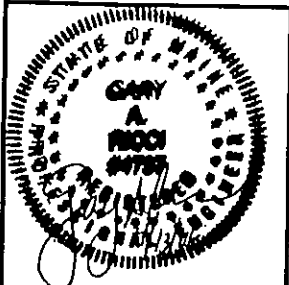
METAL HALIDE LAMPS

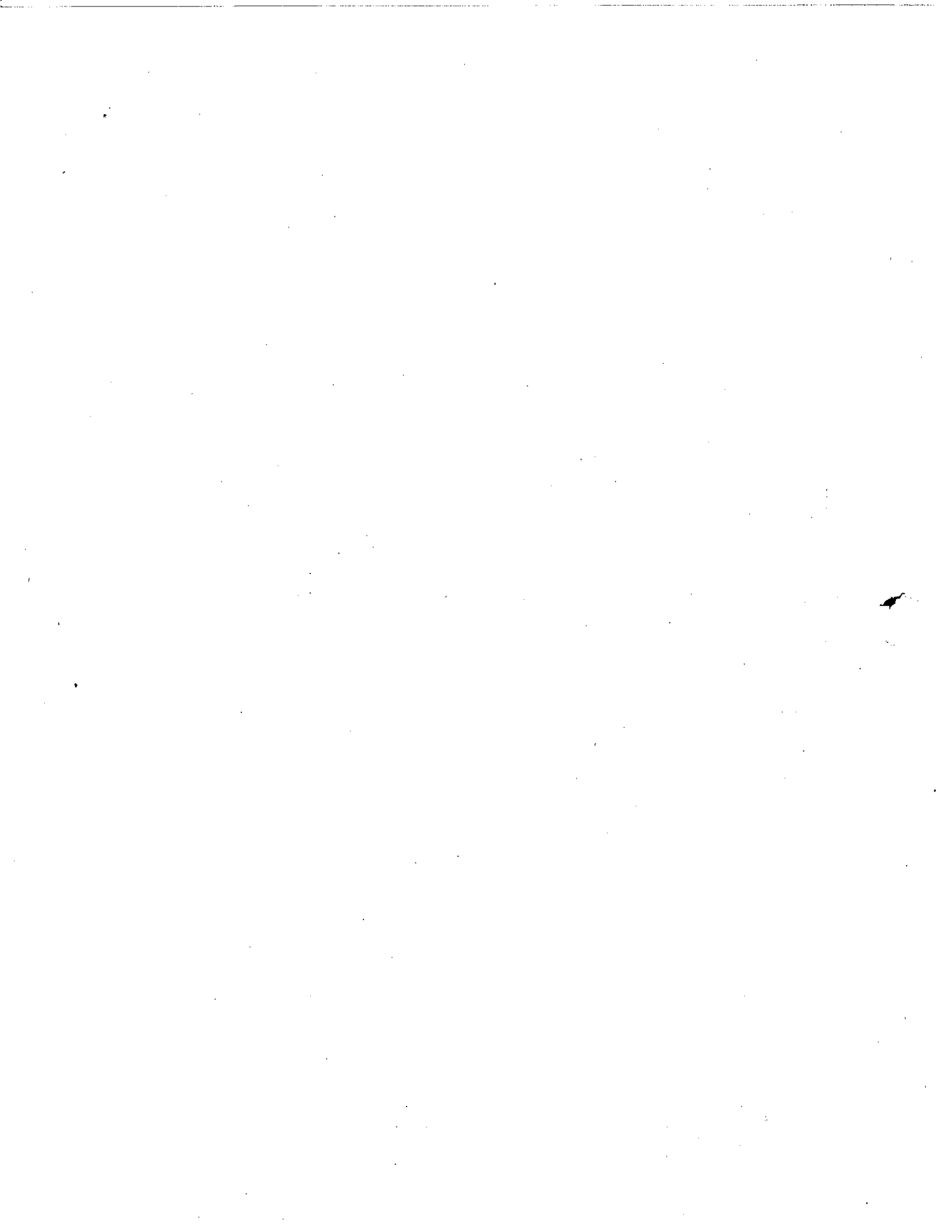
Watts	MATERIAL ID#	Life (Hours/Years)
70	6000603850	6,000/1.5
100	6000603855	6,000/1.5
175	6000603860	7,500/1.7
250	6000603865	10,000/2
400	6000603870	20,000/4.5
1000	6000603875	18,000/4

DESIGNED	REVISOR	REVISION
DRAWN		
DATE		

DESIGNED	NCC	DATE	02/06/06
DRAWN	REC		

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY

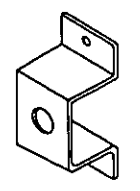
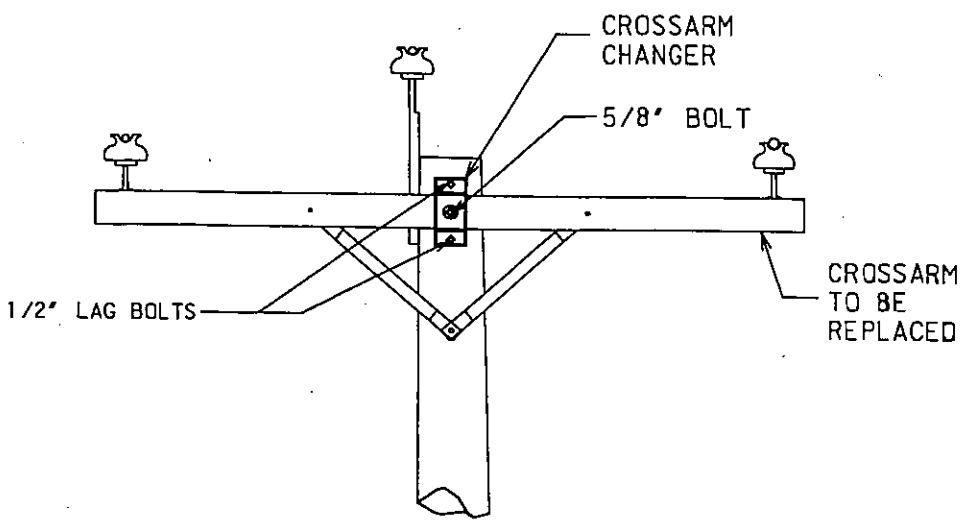




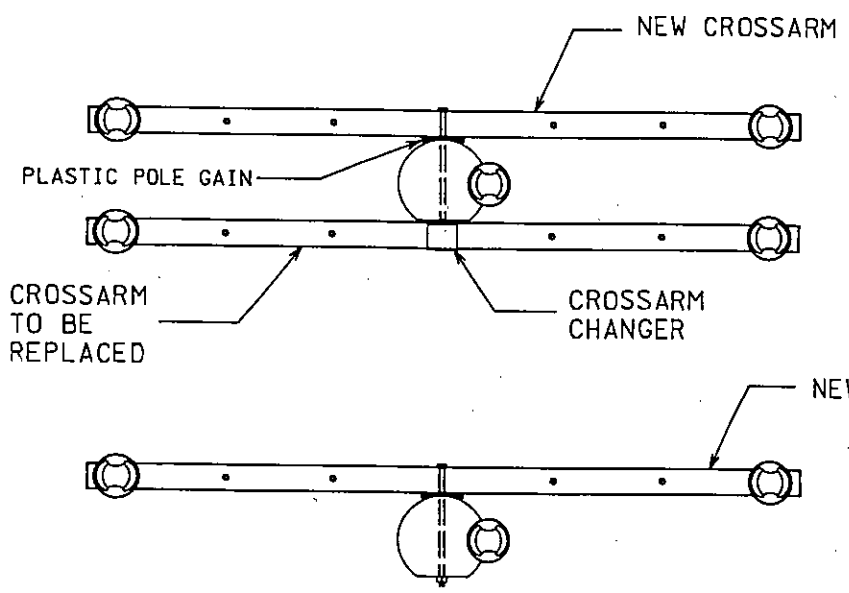




	REVISIED	REVISIED	REVISIED
DESIGNED	CS	CS	CS
DRAWN	REC	REC	REC
DATE	09/13/01	02/16/06	



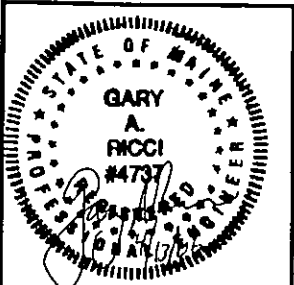
CROSSARM CHANGER

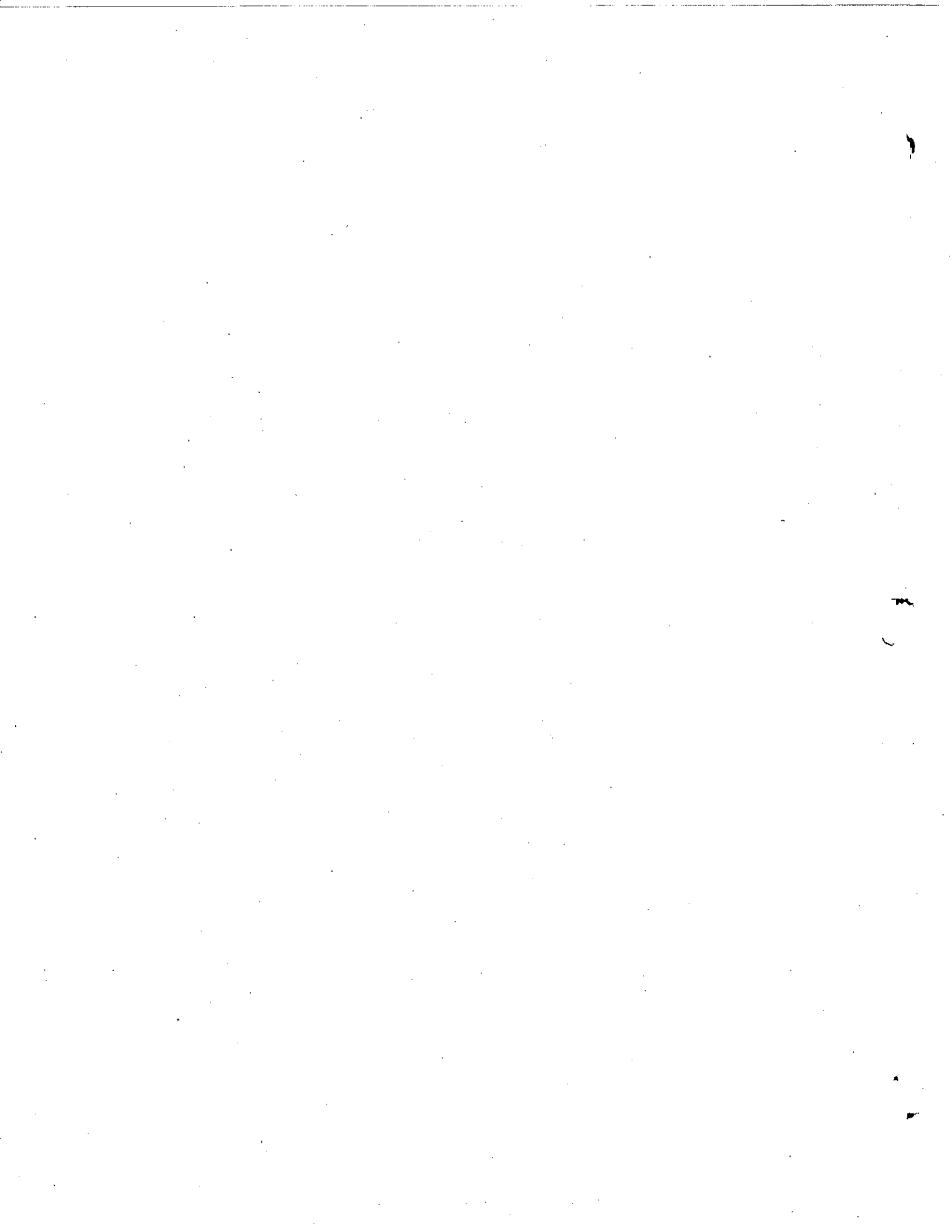


ORIGINAL	GRG
DESIGNED	JEC
DRAWN	
DATE	1/7/92

THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

1. Use proper coverup when installing new crossarm.
2. Place crossarm changer around crossarm to be replaced and lag bolt to the pole, align the hole in the crossarm changer with the 5/8" crossarm bolt.
3. Remove the 5/8" bolt that is holding the crossarm to be replaced. The crossarm changing tool will hold the crossarm in place.
4. Place the new crossarm into place on the other side of the pole and insert a 5/8" bolt of required length with a plastic pole gain MID#6000273185 between pole and the crossarm.
5. Remove the crossarm changing tool and the old crossarm.
6. Install 2 1/4" x 2 1/4" washer, 5/8" spring washer, and nut on crossarm bolt.
7. Use only on tangent structures.









The Contractor Item Catalog is a listing of acceptable materials sorted by stock code number.

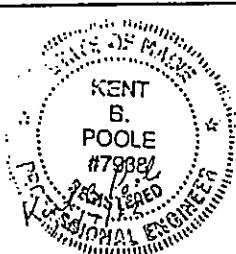
The drawings in the Standards Book are supplemented by a material list on the opposite page. This material list has a compatible unit code which is used by CMP designers to design a project utilizing the Work Management System. This is also a cross reference to the CMP stock code number.

To ensure that contractors know what material is required, the Contractor Item Catalog is the vehicle to determine what Manufacturer's Catalog number the material corresponds to. This will eliminate confusion about what material is acceptable and will avoid delays in the customer's service being energized.

DESIGNED	REVIS	REVIS	REVIS
DRAWN			
DATE			

DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	09/20/02

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



PAGE	DESCRIPTION ACCEPTABLE ALTERNATIVE POLES	MACRO 399-1
------	---	----------------

SOUTHERN YELLOW PINE POLES SUPPLIED BY FOR-TEK MUST MEET CENTRAL MAINE POWER SPECIFICATIONS, BE PENTA TREATED AND DRILLED TO THE ECNE STANDARD. POLE ALSO NEED TO BE BRANDED WITH THE LETTERS SPP (INDICATING SOUTHERN PINE PENTA TREATED)

MANUFACTURER

BURN BRAND

ATLANTIC WOOD INDUSTRIES
SAVANAH, GA



GENERAL WOOD PRESERVERS
LELAND/WILMINGTON, NC

GWP

INTERNATIONAL PAPER Co.
WIGGINS, MS



CAROLINA POLE, INC.
LELAND/WILMINGTON, NC

CPI

W.C. MEREDITH Co.
EAST POINT, GA

MEREDUC

T.R. MILLER MILL Co.
BREWTON, ALABAMA

M

WEYERHAEUSER Co.
DeQUEEN, ARKANSAS



DESIGNED	REVISED
DRAWN	REVISED
DATE	REVISED

DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	10/24/02

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY



RED PINE POLES SUPPLIED BY STELLA-JONES MUST MEET CENTRAL MAINE POWER SPECIFICATIONS, BE PENTA TREATED AND DRILLED TO THE ECNE STANDARD. POLE ALSO NEED TO BE BRANDED WITH THE LETTERS RPP (INDICATING RED PINE PENTA TREATED)

MANUFACTURER

BURN BRAND

STELLA-JONES
TRURO, NOVA SCOTIA

SJ

DESIGNED	REVIS	REVISED	REVISED
DRAWN			
DATE			

DESIGNED	ORIGINAL
DRAWN	CS
DATE	REC
	12/03/02

THIS DRAWING SHALL
BE REVISED ON THE
CADD SYSTEM ONLY





M8A108-01

CENTRAL MAINE POWER COMPANY
CONTRACTOR ITEM CATALOGPAGE: 1
DATE: 11/04/03

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
11 0582	SERVICE GRIP PREFORMED #4 NEUTRAL	HELICAL DULMISON PLP CO	S/G PREF #4 NEUTRAL NSG-514 HELICAL SG 0570 DULMISON SG-4502
11 0588	SERVICE GRIP PREFORMED 1/0 NEUT	DULMISON PLP CO	S/G PREF 1/0 NEUT SG 0915 DULMISON SG-4506
11 0596	SERVICE GRIP PREFORMED 4/0 AAAC NEU	HELICAL DULMISON PLP CO	S/G PREF F/3364-4/0NEUT HSG-528 HELICAL SG 1300 DULMISON SG-4509
11 0719	CLAMP DEAD END AUTO 336400 ALUM DR 18/1 ACSR	BLACKBURN RELIABLE ELEC	CL A/D/E AL 336400 ATD26633628 BLACKBURN 7658-SOS-CNP-
11 0806	DEAD END MESSENGER 052 ANA 7 NO 6 AN	RELIABLE ELEC	D/E NESS .052 7NO 6 AN 5204
11 0814	DEAD END MESSENGER 252 ANA 7N08AN	RELIABLE ELEC	D/E NESS .252 7N08 AN 5202
11 0822	CLAMP DEAD END ALUM 6 TO 2/0	RELIABLE ELEC	CL D/E AL BOLTED 6-2/0 ASD-398-1N
11 0830	CLAMP DEAD END ALUM 3/0 TO 336400	RELIABLE ELEC	CL D/E AL BOLTED 366400 ASD-684-1N
11 0835	CLAMP DEAD END ALUMINUM 4/0 TO SS6.5	RELIABLE ELEC	CL D/E AL 4/0-556.S ASD-858-2
11 0846	CLAMP DEAD END MALLEABLE IRON 4/0 TO 500 MCM CU		CL D/E MALL IRDN 500KCH
11 1330	CLAMP MESS INSIDE ANGLE FOR BA4-15 USED WITH U BOLT S/C 27-2560	HENDRIX	CL MESS I/SD ANG F/BA4 CMA-2
11 1360	CLAMP SEMI STRAIN 1/0 TO 336400AL	HUBBELL	CL S/STRAIN 1/0 - 336AL AAC302
11 1368	CLAMP SEMI STRAIN 6 TO 4/0	CONTINENTAL ELECTRI	CL S/STRAIN 6 TO 4/0CU FAC90-75
11 1500	CONNECTOR COMPRESSION C TYPE URD CABLE NEUTRAL SPLICE FOR #2 15KV AND 1/0 35KV 3 PHASE CABLES	BURNDY	CONN C TY 2 & 1/0 3PH YC4CB

LINE	MANUFACTURER		
ITEM	DESCRIPTION	NAME	PART NUMBER
11 1502	CONNECTOR COMPRESSION C TYPE URD CABLE NEUTRAL SPLICE FOR #2 15KV SINGLE PHASE CABLE	BURNDY	CONN COMP C TYPE 2 1PH YC4C4
11 1504	CONNECTOR COMPRESSION C TYPE URD CABLE NEUTRAL SPLICE FOR 4/0 15KV, 4/0 35KV 3 PHASE AND 1/0 35KV, #2CU 15KV SUBMARINE SINGLE PHASE CABLES	BURNDY	CONN C TY 4/0 3P 1/0 1P YC2C2
11 1506	CONNECTOR COMPRESSION C TYPE URD CABLE NEUTRAL SPLICE FOR 4/0 15KV SINGLE PHASE CABLE	BURNDY	CONN COMP C TY 4/0 1PH YC2BC2B
11 1510	CONNECTOR ARRESTER BRONZE WITH JAM NUT AND LOCK WASHER 8 - 2/0	ANDERSON	CONNECTOR ARREST BRONZE LAT-2/0
11 2646	CONNECTOR GROUHO ROD 5/8 IN BRONZE	BURNDY GREAIVES CALVAN	CONN GRD ROD 5/8 1H GRC5B G580 JAB5B
11 2662	CONNECTOR GROUHO ROD 3/4 1H BRONZE	BURNDY GREAIVES CALVAN	CONN GRD ROD 3/4 1H GRC34 G0340 JAB34
11 267B	CONNECTOR ROD BOND GUY STRAHO TO ROD	CONTINENTAL ELECTRI A B CHANCE	CONN ROD BOND 1 1H BC-105 CB-10
11 2822	CONNECTOR HOTLINE 4STR-2/0STR COPPER TO CURRENT LIMITING FUSE	FARGO	CONN HOTLINE CU CL FUSE GM-2011
11 2865	CONNECTOR HOT LINE COPPER OR ALUMINUM USED FOR 336 WITH INHIBITOR CONDUCTOR RANGE FOR MAIN 6SOL-400 CONDUCTOR RANGE FOR TAP 6-3/0	BLACKBURN	CONN HOT LINE CU AL 336 HLC3974AP9-1
11 2876	CONNECTOR HOT LINE ALUM 3/0 TO 350KCM HEAVY DUTY	FARGO	CONN HOT LINE AL HO 350 GA-105L
11 2880	AMPACT TAP CONNECTOR FOR CONNECTING 336 AL TO 336 AL. LARGE GROOVE ACCEPTS WIRE DIA .684" TO .600" AND SHALL GROOVE ACCEPTS WIRE WITH DIA .684" TO .600". INSTALL WITH BLUE CARTRIDGE S/CA 11-2901. REMOVE WITH RED CARTRIDGE S/CA 11-2902	AMPACT	AMP TAP CONH 336 TO 336 602380-7

LINE	MANUFACTURER		
ITEM	DESCRIPTION	NAME	PART NUMBER
11 2881	AMPACT TAP CONNECTOR FOR CONNECTING 336 AL TO 4/0 CU. LARGE GROOVE ACCEPTS WIRE DIA .684" TO .600". SMALL GROOVE ACCEPTS WIRE DIA .600" TO .460". INSTALL WITH BLUE CARTRIDGE S/CA 11-2901. REMOVE WITH RED CARTRIDGE S/CA 11-2902	AMPACT	AMP TAP CONH 336 TO 4/0 602380-6
11 2890	AMPACT STIRRUP CONNECTOR FOR 336 PRIMARY WITH 1/0 BAIL. INSTALL WITH BLUE CARTRIDGE S/CA 11-2901. REMOVE WITH RED CARTRIDGE S/CA 11-2902	AMPACT	AMP STIRRUP FOR 336PRIM 602502
11 2895	AMP STIRRUP FOR 1/0 PRIMARY WITH 1/0 BAIL. INSTALL WITH BLUE CARTRIDGE S/CA 11-1901 AND REMOVE WITH RED S/CA 11-2902	AMP	AMP STIRRUP FOR 1/0 PRI 275436-1
11 2900	AMPACT YELLOW PROPELLANT CARTRIDGE	AMPACT	AMP YELLOW CARTRIDGE 6933B-4
11 2901	AMPACT BLUE PROPELLANT CARTRIDGE	AMPACT	AMP BLUE CARTRIDGE 6933B-1
11 2902	AMPACT RED PROPELLANT CARTRIDGE	AMPACT	AMP RED CARTRIDGE 6933B-2
11 3041	CONNECTOR PARALLEL ALUMINUM 2 U BOLT 400-800 MCM AAC OR 397.5-715.5 ACSR	ANDERSON	CONN PAR 300AL/W 795 AL LCU-16-GP
11 3216	CONNECTOR PARALLEL GROVE ALUM 1 BOLT 1/0 TO 336400 ALUM-6 TO 2/0 ALUM OR COPPER	ANDERSON ANDERSON BURNDY	CONN PG 1B 1/0-336 LC52C-XB PG-52C-XB UCG32RS BURNDY
11 3240	CONNECTOR PARALLEL GROOVE 1 BOLT ALUM B-1/0 AL TO B-1/0 AL OR COPPER	ANDERSON BURNDY	CONN PG 1B B-1/0 B-1/0 LC-51C-XB UCG25RS
11 3245	COVER PLASTIC INSULATING TO FIT OVER S/C 11-3240 SINGLE BOLT PARALLEL GROOVE CONNECTOR	CONNECTOR MANUFACT	COVER INSUL FOR PGCLAMP 00-1025
11 3344	CONNECTOR PARALLEL GROOVE ALUM 3 BOLT 1/0-250MCM CU TO 1/0-336400 ALUM	ANDERSON	CONN PG 3B 1/0-336 LC-677XB
11 336B	CONNECTOR PARALLEL GROOVE ALUMINUM 2BOLT 1/0 - 336.4 ALUM TO 1/0 - 336.4 ALUM OR COPPER	ANDERSON BLACKBURN	CONN PG 1/0 AL 336.4 AL LC-66A-XB PAA40093

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	11 3608	CONNECTOR, PARALLEL, GROOVE, 2 BOLT, 4 SOLID COPPER TO 4/0 STRANDED COPPER BOTH SIDES	ANDERSON BURNOY		CONN UNIV 2B 4-4/0 LC-402 UC4M2B
	11 3692	CONNECTOR UNIVERSAL RANGE 4/0 TO 500 MCM 3 BOLT COPPER	ANDERSON BURNOY		CONN UNIV PG 3B 4/0-500 LC-404 UC2B34
	11 3700	CONNECTOR UNIVERSAL RANGE 500 MCM TO 1000 MCM 3 BOLT COPPER	ANDERSON BURNOY		CONN UNIV PG 3B 1000M LC-406 UC3444
	11 3702	CONNECTOR VISE TYPE ONE BOLT 4/0 - 397500 AL/CU TO 4/0 - 397500 AL/CU	FARGO		CONN VISE 4/0-397 BOTH GA-9400GL
	11 3703	CONNECTOR VISE TYPE ONE BOLT 4/0 - 397500 AL/CU TO 6 - 266800 AL/CU	FARGO		CN V 4/0-397 TO 6-266 GA-9401GL
	11 3706	CONNECTOR COVER VISE TYPE ONE BOLT FOR USE WITH 11-3702 & 11-3703	FARGO		CONN COVER - VISE - ONE GA-9000B3
	11 3707	CONNECTOR COVER VISE TYPE TWO BOLT FOR USE WITH 11-3710	FARGO		CONN COVER - VISE - TWO GA-9000B4
	11 3710	CONNECTOR VISE TYPE TWO BOLT 250000 - 600000 AL/CU TO 250000 - 600000 AL/CU	FARGO		CONN VISE 250-600 BOTH GA-9520GL
	11 3716	CONNECTOR COPPER SPLIT BOLT NO 10 STRAND	ANDERSON RELIABLE ELEC		CONN CU STR NO 10 C 10 10F
	11 3732	CONNECTOR COPPER SPLIT BOLT NO 8 SOL&STR	ANDERSON PENN UNION RELIABLE ELEC BLACKBURN		CONN CU SOLID NO 8 CB S-B BF BN BLACKBURN
	11 3748	CONNECTOR COPPER SPLIT BOLT NO 6 SOLID	BURNOY PENN UNION RELIABLE ELEC		CONN CU SOLID NO 6 KS17 S-6 6F
	11 3756	CONNECTOR COPPER SPLIT BOLT NO 4 SOLID	BURNOY PENN UNION RELIABLE ELEC		CONN CU SOLID NO 4 KS20 BURNOY S-4 4F

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	11 3764	CONNECTOR COPPER SPLIT BOLT 4 STRANDED 2 SOLID	BURNOY PENN UNION RELIABLE ELEC		CONN CU SOLID NO 2 KS22 BURNOY S-3 2F
	11 3772	CONNECTOR COPPER SPLIT BOLT NO 2 STRAND	ANDERSON BURNOY PENN UNION RELIABLE ELEC BLACKBURN		CONN CU STR NO 2 C1 KS23 S-2 1F 1H
	11 3856	TAP COMPRESSION H TYPE 2 AL, 4 ACSR & AAAC TO 2-6 AL OR CU (WITH RIBS OR GROOVES)	BLACKBURN BURNOY		TAP COMP H TY 2&4 T02-6 NR159 YHD-1-ONE
	11 3858	TAP COMPRESSION H TYPE 2AL,4ACSR& AAAC TO 2/0 & 3/0 STRANDED (WITH RIBS OR GROOVES)	BLACKBURN BURNOY BURNOY		TAP COMP H TY 2&4-2/0 NR289 YHD-3 YHD-3-ONE
	11 3859	TAP COMPRESSION H TYPE 2AL,4ACSR & AAAC TO 4/0 STRANDED (WITH RIBS OR GROOVES)	BLACKBURN BURNOY		TAP COMP H TY 2&4-4/0 NR379 YHD-5-ONE
	11 3860	TAP COMPRESSION H TYPE 2 AL, 4 ACSR & AAAC TO 1/0 AL OR CU (WITH RIBS OR GROOVES)	BLACKBURN BURNOY BURNOY		TAP COMP H TY 2 - 1/0 NR189 YHD-2 YHD-2-ONE
	11 3868	TAP COMPRESSION H TYPE 1/0 AAAC & AL TO 1/0-1 AL OR COPPER (WITH RIBS OR GROOVES)	BLACKBURN BURNOY		TAP COMP H TY 1/0-1/0 NR1010 YHD-10-ONE
	11 3876	TAP COMPRESSION H TYPE 1/0 AAAC & AL TO 2/0-1/0 AL OR CU 7&8 ALUMONELD TO 20M ALUMONELD (WITH RIBS OR GROOVES)	ANDERSON BLACKBURN BURNOY BURNOY		TAP COMP H TY 1/0 - 2/0 S-4 NR279 YHD-4-ONE YHD4
	11 3884	TAP COMPRESSION H TYPE 1/0 AAAC & AL TO 4/0-3/0 AL OR CU 2/0 CU TO 4/0 AL (WITH RIBS OR GROOVES)	BLACKBURN BADGER NTR		TAP COMP H TY 1/0 - 4/0 NR399 YHD-6-ONE
	11 3885	TAP COMPRESSION H TYPE 4/0-3/0 AL OR CU TO 4/0-3/0 AL OR CU (WITH RIBS OR GROOVES)	BLACKBURN BURNOY		TAP COMP H TY 4/0-4/0 NR 419 YHD-7

LINE	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
II 3887	TAP COMPRESSION H TYPE 1/0 AAC & AL TO 500-250KCH AL/CU (WITH RIBS OR GROOVES)	BLACKBURN		TAP COMP H TY I/OAL-500 WRB15
II 3892	TAP COMPRESSION H TYPE 336 & 500 AL TO 500-397KCH AL OR CU (WITH RIBS OR GROOVES)	BLACKBURN		TAP COMP H TY 500 - 250 WRB89
II 3916	TAP COMPRESSION H TYPE 4/0 AAC TO 500-250KCH AL OR COPPER (WITH RIBS OR GROOVES)	BLACKBURN		TAP COMP H TY 4/0TOS00 WRB55
II 3932	TAP COVER-F/H TYPE CONNECTOR SIZE D DIE	BURNBY HOMAC BLACKBURN		TAP COVER F/H TY 0 DIE CCO CD-20 CS
II 3940	TAP COVER-F/H TYPE CONNECTOR SIZE D DIE	BURNBY HOMAC BLACKBURN		TAP COVER F/H TY 0 DIE CCO CD-40 C7
II 394B	TAP COVER-F/H TYPE CONNECTOR SIZE N DIE	BURNBY HOMAC BLACKBURN		TAP COVER F/H TY H DIE CCNL CH-600 C9L
II 4547	CONNECTOR TYPED ALUMINUM 3/4-16 STUD TO #6-500KCH ALUMINUM	ELASTIMOL JOSLYN		CONN AL3/4-16STUD-6-500 35AL-11 B0-160P
II 4549	LUG AERIAL FOR 3/4 - 16 STUD TERMINAL TO #6 - 500KCH WIRE BARE BRONZE STRAIGHT OR RIGHT ANGLE	PEHN UNION ANDERSON SO STATES DOSSERT BLACKBURN JOSLYN		LUG AR 3/4-16 TO #6-500 CSR-0716-050 OS-06050-16 SAX-8256 SCX 75-50-T16 SC34U B0-108
II 5476	CONNECTOR, TEE, ALUMINUM, BOLT - RUN & TAP, 715-1035 HCH AAC OR 636-954 HCH ACSR RUN AND TAP	ROYAL		CONN T 795 - 795 CMCR-1313
II 7170	CONNECTOR, TERMINAL, ALUMINUM, BOLT, SIDE FORMED, 350 - 600 HCH AAC OR 336 - 477 HCH ACSR TO 3 X 3-1/4 4 HOLE NEMA TANG	ROYAL		CONN TERM 477ACSR 4H CFR-09-3H

LINE	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
II 7401	TERMINAL, COMPRESSION JUMPER, 15 DEGREE FOUR HOLE PAD FOR 795 26/7 AND 850.8 ACSR, TUBE CODE 12	FARGO ALCOA		TERMINAL COMP 795-850.8 A1212 TF12
II 7402	TERMINAL, COMPRESSION JUMPER, 15 DEGREE FOUR HOLE PAD FOR 1113 45/7, TUBE CODE 14	FARGO ALCOA		TERMINAL COMP I113 A1214 TF14
II 7973	CONNECTOR, TERMINAL, BRONZE (TINNED) DIRECT MOUNT TO BAR, 2 EYEBOLTS, #6 SOL - 350 MCH COPPER, 2 BOLT (NEMA) SPACING	ANDERSON		CONN TERM 350CU-BAR TIN TLD-52-TP
II 7976	CONNECTOR, TERMINAL, BRONZE, DIRECT MOUNT TO BAR, 2 EYEBOLT, #6 SOL- 350 MCH COPPER, 2 BOLT (NEMA) SPACING	ANDERSON		CONN TERM 350CU-BAR TLD-52
II 8124	CONNECTOR TERMINAL BRONZE DIRECT MOUNT TO BAR, 2 EYEBOLT I/O SOL-500 MCH CU, 2 BOLT NEMA SPACING WITH SHORT LUGS FOR 1/4 IN THICK MOUNTING SURFACES	ANDERSON		CONN TERM BR 500 MCH CU TLD 62
II 8382	CONNECTOR, TERMINAL, BRONZE, DIRECT MOUNT TO BAR, 2 EYEBOLT, 750 MCH-1000 MCH COPPER, 2 BOLT (NEMA) SPACING	ANDERSON		CONN TERM 1000CU-BAR TLD-89
II 8865	LUG FLAG TYPE F/TRANSFORMER 4 HOLE PAD PIN 2 1/4 INCH BY 1/2 INCH	BURNBY		LUG FLAG TRH 4 H 2" PIN FCB63-4H
II 8866	LUG FLAG F/TRANSFORMER 4 HOLE PAD PIN 4 INCH BY 1 INCH	BURNBY		LUG FLAG TRH 4 H 4" PIN FCB65-4H
II 8867	LUG FLAG TYPE F/TRANSFORMER 4 HOLE PAD PIN 2 3/4 INCH BY 3/4 INCH	BURNBY		LUG FLAG TRH 4H 3/4 PIN FCB64-4H
II 9045	TERMINAL PIN #2 AL & CU	BLACKBURN ANDERSON HOMAC 3H BURNBY		TERMINAL PIN #2 AL & CU PCS71 PTH-22-6 QSU2 SC0001 YE2R66
II 9048	TERMINAL PIN I/O AL	HOMAC		TERMINAL PIN I/O AL XSU10
II 9056	TERMINAL PIN 2/O AL	HOMAC		TERMINAL PIN 2/O AL XSU20

MBA10B-01		CENTRAL MAINE POWER COMPANY CONTRACTOR ITEM CATALOG		PAGE: 8
LINE		MANUFACTURER		
ITEM	DESCRIPTION	NAME	PART NUMBER	
11 9064	TERMINAL PIN 3/0 AL	HOHAC	TERMINAL PIN 3/0 AL XSU30	
11 9072	TERMINAL PIN 4/0 AL	HOHAC	TERMINAL PIN 4/0 AL XSU40	
11 9080	TERMINAL PIN 336400 AL	HOHAC	TERMINAL PIN 336400 AL XSU336	
11 9096	TERMINAL PIN 500 MCH AL	BLACKBURN	TERMINAL PIN 500 MCH AL PRS40N	
11 9189	TERMINAL TAP TRANSFORMER EYEBOLT TO 4 1/0-500 COPPER CONDUCTORS FITS 75KVA 1PHASE AND 225KVA 3PHASE SECONDARY LUGS	ANDERSON	TERM TAP TRN 4WAY 500CU V4-63	
11 9192	TERMINAL TAP TRN GROUND CLAMP WITH SPLIT LOCKWASHER ON TAP BOLT	GREAVES ANDERSON	TERM TAP TRN GR GLT-1 GTCL23A	
20 0300	CABLE 600 VOLT AERIAL 3 CONDUCTOR #2 ALUMINUM TRIPLEX CONSISTING OF TWO #2-7 STRAND PHASE CONDUCTORS WITH 45 MIL INSULATION AND ONE #4 BARE NEUTRAL	KAISER	CBLAER#2ALTRIP600V3COND SOLASTER-KLP	
20 0320	CABLE 600 VOLT AERIAL 3 CONDUCTOR 1/0 ALUMINUM TRIPLEX CONSISTING OF TWO 1/0 -7 STRAND PHASE CONDUCTORS WITH 60 MIL INSULATION AND ONE 1/0-7 STRAND 6201 ALLOY NEUTRAL WITH 3B TO 40 INCH LAY GANMARUS (MODIFIED)	KAISER	CBLAER1/0ALTRIP600V3C (GANMARUS) 215	
20 0330	CABLE 600 VOLT AERIAL 4 CONDUCTOR 1/0 ALUMINUM QUADRAPLEX CONSISTING OF THREE 1/0-19 STRAND PHASE CONDUCTOR WITH 60 MIL INSULATION AND ONE 1/0-7 STRAND 6201 ALLOY BARE NEUTRAL WITH 3B TO 40 INCH LAY	ALL MAKES KAISER	CBLAER1/0ALQUAD600V4C SHETLAND 1563	
20 0340	CABLE 600 VOLT AERIAL 3 CONDUCTOR 336400 ALUMINUM TRIPLEX CONSISTING OF TWO 336400-19 STRAND PHASE CONDUCTORS WITH 7B MIL INSULATION AND ONE 4/0 7 STRAND 6201 ALLOY NEUTRAL	KAISER	CBLAER336ALTRIP600V3C 296B	

MBA10B-01		CENTRAL MAINE POWER COMPANY CONTRACTOR ITEM CATALOG		PAGE: 9
LINE		MANUFACTURER		
ITEM	DESCRIPTION	NAME	PART NUMBER	
20 0350	CABLE 600 VOLT AERIAL 4 CONDUCTOR 336400 ALUMINUM QUADRAPLEX CONSISTING OF THREE 336400 19 STRAND PHASE CONDUCTORS WITH 7B MIL INSULATION AND ONE 4/0-7 STRAND 6201 ALLOY BARE NEUTRAL	ALCOA	CBLAER336ALQUAD600V4C	
20 036B	CABLE 600 VOLT UNDERGROUND 3 CONDUCTOR 2 #2 AND 1 #4 ALUMINUM TRIPLEXED PER CHP SPEC OF 12/29/98	ALL MAKES	CBLURO#2ALTRIP600V3COND YELLOW STRIP NEUT	
20 0420	CABLE 600 VOLT UNDERGROUND 3 CONDUCTOR 2 4/0 AND 1 2/0 ALUMINUM TRIPLEXED PER CHP SPEC OF 12/29/98		CBLURO4/0ALTRIP600V3C	
20 0440	CABLE 600V UNDERGROUND DIRECT BURIAL 1 500KCN ALUMINUM POLYETHYLENE INSULATED PER CHP SPEC 20-440, DATED 12/29/98		CBLUR0500AL600VICOND	
20 0450	CABLE 600 VOLT UNDERGROUND DIRECT BURIAL 3 CONDUCTOR 500 KCM ALUMINUM 95 MIL XLP INSULATION PARALLELED PER CHP SPEC 20-450, DATED 12/29/98		CBLUR0500AL600V3CONOPAR	
20 0501	CABLE 600V UNDERGROUND FEEDER 12/2 UF WITH GROUND COPPER CONDUCTORS (250 FEET PER BOXED COIL)		CBL600V UF12/2N GRDSTLT	
20 0620	CABLE 600V RUBBER RUBBER 3 4/0 COPPER CONDUCTORS PARALLELED PER CHP SPEC OF 12/29/98		CBL600VR/R3C4/0CUPARALL	
20 0640	CABLE 600V RUBBER RUBBER I 500 COPPER CONDUCTOR PER CHP SPEC OF 12/29/98		CBL600VR/R1C500CU	
20 0650	CABLE 600V RUBBER RUBBER 3 500 COPPER CONDUCTORS PARALLELED PER CHP SPEC OF 12/29/98		CBL600VR/R3C500CUPARALL	
20 1433	CABLE 15KV UNDERGROUND DIRECT BURIAL COND 1-#2 -7 STRAND AL NEUTRAL 10 - #14 CU COND SHIELD - 15 MILS MIN AVG INSULATION - 220 MILS MIN AVG JACKET - 50 MILS MIN AVG PER CHP SPEC 20-001 DATED 06/27/00		CBL15KVUROIC#2AL INSJAC	

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
20 1453	CABLE 15KV - UNDERGROUND DIRECT BURIAL COND 3 - #2 - 7 STRAND AL NEUTRAL 6 - #14 CU COND SHIELD - 15 MILS MIN AVG INSULATION - 220 MILS MIN AVG JACKET - 50 MILS MIN AVG PER CMP SPEC 20-001 DATED 06/27/00		CBLURD15KV3C#2ALJACK
20 1463	CABLE 15KV UNDERGROUND DIRECT BURIAL COND 1 - 4/0 - 19 STRAND AL NEUTRAL 13 - #10 CU COND SHIELD - 15 MILS MIN AVG INSULATION - 175 MILS MIN AVG JACKET - 50 MILS MIN AVG PER CMP SPEC 20-001 DATED 06/27/00		CBLURD15KV1C4/0ALJACKET
20 1472	CABLE 15KV UNDERGROUND DIRECT BURIAL COND 3 - 4/0 - 19 STRAND AL NEUTRAL 11 - #14 CU COND SHIELD - 15 MILS MIN AVG INSULATION - 175 MILS MIN AVG JACKET - 50 MILS MIN AVG PER CMP SPEC 20-001 DATED 06/27/00		CBLURD15KV3C4/0ALJAC
20 1491	CABLE 15KV - DUCT - ALUMINUM - COMPRESSED COND 3 - 350KCM - 37 STRAND TRIPLEXED COPPER SHIELD WIRES COND SHIELD - 16 MILS MIN PT INSULATION - 175 MILS MIN AVG JACKET - 80 MILS MIN AVG PER CMP SPEC 20-1490 DATED 12/29/98		CBL15KV0UC3C 350AL TRIP
20 1516	CABLE 15KV - DUCT - COPPER - COMPRESSED COND 1 - 500KCM - 37 STRAND COPPER SHIELD WIRES COND SHIELD - 16 MILS MIN PT INSULATION - 175 MILS MIN AVG JACKET - 80 MILS MIN AVG PER CMP SPEC 20-001 DATED 06/27/00		CABLE15KV0UCT1COND500CU
20 1520	CABLE 15KV - DUCT - COPPER - COMPRESSED COND 3 - 500KCM - 37 STRAND TRIPLEXED COPPER SHIELD WIRES COND SHIELD - 16 MILS MIN PT INSULATION - 175 MILS MIN AVG JACKET - 80 MILS MIN AVG PER CMP SPEC 20-001 DATED 06/27/00		CBL15KV0UC3C 500CU TRIP

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
20 1614	CABLE 15KV SUBMARINE 1#2 COPPER PHASE CONDUCTOR RUBBER INSULATION 10 #14 COPPER NEUTRAL AND STEEL ARMOR PER CMP SPEC 20-004 OF 12/29/98		CBL15KVSUB1C#2CURUB ARM
20 1616	CABLE 15KV SUBMARINE 1 #2 COPPER PHASE CONDUCTOR 220MIL INSULATION CONCENTRIC COPPER NEUTRAL JACKETED PER CMP SPEC 20-007 DATED 12/29/98		CBL15KVSUB1C#2CUPOLY
20 2713	CABLE 35KV - UNDERGROUND DIRECT BURIAL COND 1 - 1/0 - 19 STRAND AL NEUTRAL 16 - #14 CU COND SHIELD - 15 MILS MIN AVG INSULATION - 345 MILS MIN AVG JACKET - 50 MILS MIN AVG PER CMP SPEC 20-001 DATED 06/27/00		CBLURD35KV1C1/0ALJACKET
20 2753	CABLE 35 KV - UNDERGROUND DIRECT BURIAL COND 3 - 1/0 - 19 STRAND AL NEUTRAL 6 - #14 CU COND SHIELD - 15 MILS MIN AVG INSULATION - 345 MILS MIN AVG JACKET - 50 MILS MIN AVG PER CMP SPEC 20-001 DATED 06/27/00		CBLURD35KV3C1/0ALJAC
20 2803	CABLE 35 KV - UNDERGROUND DIRECT BURIAL COND 3 - 4/0 - 19 STRAND AL NEUTRAL 11 - #14 CU COND SHIELD - 15 MILS MIN AVG INSULATION - 345 MILS MIN AVG JACKET - 50 MILS MIN AVG PER CMP SPEC 20-001 DATED 06/27/00		CBLURD35KV3C4/0ALJAC
20 285B	CABLE 35KV DUCT COPPER COND 3 350KCM 37 STRAND PER CMP SPEC 20-005 DATED 12/29/98		CBL35KV0UC3C350CU TRIP
20 2943	CABLE 35KV - DUCT - COPPER - COMPRESSED COND 1 - 500KCM - 37 STRAND COPPER SHIELD WIRES COND SHIELD - 16 MILS MIN AVG INSULATION - 345 MILS MIN AVG JACKET - 110 MILS MIN AVG PER CMP SPEC 20-001 DATED 06/27/00		CABLE35KV0UCT1COND500CU

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
20 2946	CABLE 35KV - DUCT - COPPER - COMPRESSED COND 3 -500KCH -37STRAND TRIPLEXED COPPER SHIELD WIRES COND SHIELD - 16 MILS MIN PT INSULATION - 345 MILS MIN AVG JACKET - 110 MILS MIN AVG PER CMP SPEC 20-003 DATED 06/27/00	OKONITE	CBL35KV0UC3C 500CU TRIP 115-23-3S31
20 4370	CABLE #2 ANG7CU 15KV SPS 133% 220 MIL KERITE EXTRUDED SEMICON 16-14 AWG COPPER CONC WIRES AND 50 MIL PE JACKET WITH 3 RED STRIPES BOUND TO A 1/2 IMCN EHS COPPERWELD MESSENGER	KERITE	CBL #2CU AERIAL 1/2MESS 102C15-31290
20 4380	CABLE 3-1/2 TWISTED 350KCHIL (37) AL 15KV SPS 100%, 175MILS KERITE, EXTRUDED SEMICON, 6-14AWG CU CONC WIRES 50 MILS PE JACKET BOUND TO A 1/2INCH EHS COPPERWELD MESSENGER	KERITE	CBL15KVAERIAL W/ MESS 335A15-12190
20 4923	WIRE 1/0 AAAC 6201 BARE	KAISER	WIRE 1/0 AAAC A202A
20 4991	WIRE 350KCH EC ALUMINUM BARE STRANDED ANNEALED		WIRE 350ALUM BARE SOFT
20 5060	WIRE 336400 CM ALUMINUM BARE HARD DRAWN PER ANSI C7.21.	ALL MAKES	WIRE 336ALUM BARE HD TULIP
20 5313	WIRE #4 AWG BARE SOLID ANNEALED ALUMINUM TIE	WESCO	WIRE #4AL BARE SOL TIE FT.4 BARE ALUM TIE SO WIRE
20 5358	WIRE TIE #4 SOLID DEAD SOFT ALUMINUM WITH 45 MIL BLACK THERMOPLASTIC RUBBER COVERING	HENDRIX HENDRIX	WIRE TIE #4AL MIL BTPR FT. #4 AL INS TIE 96598
20 5382	WIRE 052 ALUMWELD MESSENGER 7 STRAND 5 ALUMWELD PLUS 2 ALUMINUM D.486IN		WIRE 052AWA MESSENGER
20 5430	WIRE ALUMWELD AERIAL GRO 7 NO 6		WIRE A/W AR GRO 7 NO 6
20 5911	WIRE 4/0 COPPER SOLID BARE MHO		WIRE CU BR SOL MHO 4/0
20 5930	WIRE #8 COPPER BARE TIE SOFT DRAWN	WESCO	WIRE 8CU SOL SO TIE FT.8 SOL SID CU TIE S WIRE
20 5934	WIRE #6SOLID COPPER SOFT DRAWN UTILITY GRADE DEAD SOFT ANNEALED WITH 40 TO 42% ELONGATION 315LF 25LB SPOOL	NEHRING	WIRE6CU SO DS T/W 315LF 6SOL CU SD DS BC

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
20 5940	WIRE 6 SOLID COPPER SOFT DRAWN UTILITY GRADE DEAD SOFT ANNEALED WITH 40 TO 42% ELONGATION 2500LF REEL	NEHRING	WIRE6CU SO DS TW 2500LF 6SOLCU SO DS BC
20 5957	WIRE #4 COPPER BARE TIE ANNEALED	WESCO	WIRE 4CU SOL SD TIE FT.4 SOL SD CU TIE
20 6003	WIRE 2/0 COPPER BARE SOFT DRAWN 7 STRAND		WIRE 2/0 CU BR 7STR SO
20 6118	WIRE 1/0 BARE 7 STRAND MEDIUM HARD DRAWN COPPER PER ASTM B8-56 AND B258-57		WIRE 1/0CU BARE STR MHO
20 6141	WIRE COPPER BARE STR MHO 2/0 USED		WIRE CU BR STR MHO 2/0
20 6164	WIRE 4/0 COPPER 7 STRAND BARE MEDIUM HARD DRAWN		WIRE CU BR STR MHO 4/0
20 6302	WIRE #4 COPPER 7 STRAND BARE SOFT DRAWN	ALL MAKES	WIRE 4CU STR SO GRO ALL MAKES
20 6325	WIRE NO.2 COPPER 7 STRAND BARE SOFT DRAWN		WIRE 2 CU 7STR BARE SO
20 6371	WIRE 4/0 COPPER 7 STRAND BARE SOFT DRAWN		WIRE CU BR STR SD 4/0
20 6394	WIRE 4/0 COPPER 19 STRAND BARE SOFT DRAWN CLASS B (FOR GROUND GRIDS)		WIRE CU 19 STR SD 4/0
20 6417	WIRE COPPER BARE STR SD 350 MCM		WIRE CU BR STR SD 350M
20 6440	WIRE COPPER BARE STR SD 500 MCM		WIRE CU BR STR SD 500M
20 7176	WIRE RHW AND USE 7 STRAND NO 12 COPPER BLACK 600 VOLT	WESCO	WIRE RHW USE STR 12 BLK FT 12 BLK RHW/USE
20 7199	WIRE RHW AND USE 7 STRAND NO 12 COPPER WHITE STRIPE OR WHITE PRINTED COLOR CODE 600 VOLT	WESCO	WIRE RHW USE STR 12 WHT FT 12 WHT RHW/USE
20 7222	WIRE XHHW STR NO 10 COPPER (PER CMP SPEC 22-7 DATED 11/13/96)		WIRE XHHW STR NO 10 CU
20 7245	WIRE XHHW STR NO 8 COPPER (PER CMP SPEC 22-7 DATED 09/29/97)		WIRE XHHW STR NO 8 CU
20 7291	WIRE 600 VOLT XHHW 6AWG STRANDED COPPER (PER CMP SPEC 22-7 DATED 11/13/96)		WIRE 600V XHHW 6STR CU
20 7337	WIRE 600 VOLT XHHW 4AWG STRANDED COPPER (PER CMP SPEC 22-7 DATED 11/13/96)		WIRE 600V XHHW 4 STR CU

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
20 7360	WIRE 600 VOLT RHM 2AWG 7 STRAND COPPER	WESCO	WIRE RHM 7 STR NO2 CU FT 2 8LK RHM/USE
20 7406	WIRE 600 V XHHW 2/0AWG STRANDED COPPER (PER CHP SPEC 22-7 DATED 11/13/96)		WIRE 600V XHHW2/0STR CU
20 7429	WIRE 600 V XHHW 4/0AWG STRANDED COPPER (PER CHP SPEC 22-7 DATED 11/13/96)		WIRE 600V XHHW4/0STR CU
20 7958	WIRE 15 KV - COVERED CONDUCTOR COND 1 - 1/0 - 7 STRAND AL PER CHP SPEC 20-002 DATED 12/29/98		WIRE 170AAAC 15KVSPACER
20 7981	WIRE 15 KV - COVERED CONDUCTOR COND 1 - 336.4 - 19 STRAND AL PER CHP SPEC 20-002 DATED 12/29/98	HENDRIX	WIRE 336 AL 15KV SPACER HAC15-TPB
20 7990	WIRE 35 KV - COVERED CONDUCTOR COND 1 - 1/0 - 7 STRAND AL PER CHP SPEC 20-002 DATED 12/29/98		WIRE 1/0 AAAC 35KV TREE
20 7995	WIRE 35 KV - COVERED CONDUCTOR COND 1 - 336.4 - 19 STRAND AL PER CHP SPEC 20-002 DATED 12/29/98	HENDRIX	WIRE 336 ALUH 35KV TREE HAC35-18
20 7996	WIRE 35 KV - COVERED CONDUCTOR COND 1 - 477 - 19 STRAND AL PER CHP SPEC 20-002 DATED 12/29/98		WIRE 477 ALUH 35KV SPACER
21 0030	ADAPTER POLY CABLE TO HOLED CONNECTOR 500KCH 175-220HIL FITS POLY CABLE WITH PRIMARY INSULATION OD RANGE 1.180 - 1.465	ELASTIMOLD	ADAPTER POLY CBL TO CON ADAPTER POLY CBL TO CON851 655CA-L
21 0036	ADAPTER POLY CABLE TO HOLED CONNECTOR 4/0 345HIL FITS POLY CABLE WITH INSULATION OD RANGE 1.180 - 1.465" USE WITH S/C 21-1921	ELASTIMOLD	ADAPTER POLY CBL 8 CON 755CA-L
21 0038	ADAPTER POLY CABLE TO HOLED CONNECTOR 500KCH 345HIL FITS POLY CABLE WITH INSULATION OD RANGE 1.515 - 1.780" USE WITH S/C 21-1921	ELASTIMOLD	ADAPTER POLY CBL TO CON 755CA-N
21 0040	ADAPTER RETAINING RING FITS 4/0 COND FOR USE WITH 15KV 600AMP WYE SPLICE S/C #21-5040	ELASTIMOLD	ADAPTER RET RING 4/0 650ARR-270

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
21 0042	ADAPTER RETAINING RING FITS 350 KCH COND FOR USE WITH 15 KV 600AMP WYE SPLICE S/C#21-5040	ELASTIMOLD	ADAPTER RET RING 350KCH 650ARR-300
21 0044	ADAPTER RETAINING RING FITS 500KCH COND FOR USE WITH 15KV 600AMP WYE SPLICE SC#21-5040	ELASTIMOLD	ADAPTER RET RING 500KCH 650ARR-330
21 0200	CAP CABLE SEALING F/600V #4 URD	HOMAC	CAP CABLE 600V #4 CAP35
21 0201	CAP CABLE SEALING F/600V #2 URD	HOMAC	CAP CABLE 600V #2 CAP45
21 0203	CAP CABLE SEALING F/600V #2/0 URD	HOMAC	CAP CABLE 600V #2/0 CAP65
21 0205	CAP CABLE SEALING F/600V 4/0 URD 15KV #2 URD UNJKT RANGE 0.720-0.973 INCH	HOMAC	CAP CABLE 0.720-0.973IN CAP85
21 0207	CAP CABLE SEALING F/600V 500KCH URD 15KV #2 URD JKT - 4/0AWG URD UNJKT RANGE 0.970 - 1.185 INCH	HOMAC	CAP CABLE 0.970-1.185IN CAP95
21 0208	CAP CABLE SEALING F/15KV 4/0 URD JKT - 4/0 DUCT - 350KCH URD UNJKT 35KV 1/0 URD UNJKT RANGE 1.120 - 1.400 INCH	HOMAC	CAP CABLE 1.120-1.400IN CAP105
21 0209	CAP CABLE SEALING F/15KV 550 KCH DUCT 35KV 4/0 URD UNJKT RANGE 1.200 - 1.475 INCH	NONAC	CAP CABLE 1.200-1.475IN CAP125
21 0210	CAP CABLE SEALING F/15KV 350KCH URD JKT - 500KCH DUCT - 500KCH URD JKT 35KV 1/0 URD JKT RANGE 1.390 - 1.650 INCH	NONAC	CAP CABLE 1.390-1.650IN CAP130
21 0211	CAP CABLE SEALING F/15KV 750KCH DUCT 35KV 4/0 URD JKT - 500KCH URD UNJKT RANGE 1.465 - 1.750 INCH	HOMAC	CAP CABLE 1.465-1.750IN CAP135
21 0212	CAP CABLE SEALING F/15KV 750KCH URD JKT RANGE 1.650 - 1.925 INCH	NONAC	CAP CABLE 1.650-1.925IN CAP145
21 0213	CAP CABLE SEALING F/35KV 500KCH DUCT 500KCH URD JKT - 750KCH URD JKT RANGE 1.860 - 2.250 INCH	HOMAC	CAP CABLE 1.860-2.250IN CAP150

LINE	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
21 0590	COMPOUND POTHEAD	G 8 W		COMPOUND POTHEAD SPEC #220
21 0480	CONE STRESS RELIEF INDOOR 15KV 500KCH	ELASTIMOLD		CONE STRESS 15KV 500KCH 35-HSC-HB
21 0600	CONE UNDERGROUND COMPRESSION NO 2 STR FITS 21-4890 SOCKET & NUT ASSEMBLY	BURNOY		CONE UNDER COMP 2 STR Z2C2B
21 0810	CONE UNDERGROUND COMPRESSION NO 4/0 STR FITS 21-4890 SOCKET & NUT ASSEMBLY	BURNOY		CONE UNDER COMP 4/0 STR Z2B2B
21 0840	CONE UNDERGROUND COMPRESSION NO 4/0 STR FITS 21-4920 SOCKET & NUT ASSEMBLY	BURNOY		CONE UNDER COMP 4/0 STR CONE UNDER COMP 4/0 STR854 Z2B34
21 1020	CONE UNDERGROUND COMPRESSION 500 MCH STR FITS 21-4920 SOCKET & NUT ASSEMBLY	BURNOY		CONE UNDER COMP 500 MCH Z3434
21 1085	CONNECTOR, COAXIAL CABLE, TYPE N, FOR USE ON RG-213/U CABLE	AMPHENOL		CONN COAX TYPE N B2-4426-1001
21 1140	CONNECTOR URD SUBMERSIBLE 5 WAY 1 MAK 500KCH AND 4 MAK 4/0	BLACKBURN		CONN URD SUBMER 5 - 500 UPC51
21 1170	CONNECTOR URD SUBMERSIBLE 3 WAY MAK 4/0	BLACKBURN		CONN URD SUBMER 3 - 4/0 UPC30
21 1230	CONNECTOR URD SUBMERSIBLE 5 WAY MAK 4/0	BLACKBURN		CONN URD SUBMER 5 - 4/0 UPC50
21 1260	CONNECTOR URD SUBMERSIBLE 6 WAY MAK 4/0 WITH STREET LIGHT TAP	BLACKBURN		CONN URD SUBMER 6WAY&SL UPC60SL
21 1580	CONNECTOR URD ELBOW 15KV 600AMP 500KCH CONSISTING OF 1 650BLR, 1 600BIP, 1 650 CA-HB & 1 650 LRC-500	ELASTIMOLD		CONN URD ELBOW 15KV600A 655LR-K0330
21 1590	CONNECTOR URD ELBOW 35KV 600AMP 1/0AL	COOPER POWER		CONN URD ELBOW 35KV600A RTE-2637462B02H
21 1410	CONTACT URD CABLE NO 2 TO 200 AMPERE ELBOW ALL TYPES	ELASTIMOLD		CDNT URD EL CBL CONN #2 0250S220
21 1500	CONTACT URD FOLLOWER PIN FOR ELASTIMOLD 15KV 200AMP LOADBREAK ELBOW	ELASTIMOLD		CDNT URD EL LD/BK 15KV 166LRF
21 1740	CONTACT URD ELASTIMOLD 15KV TERMINATOR	ELASTIMOLD		CDNT URD F/ELAST TERM 16TCA-0220

LINE	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
21 1741	CONTACT ONLY FOR URD ELASTIMOLD 15KV TERMINATORS	ELASTIMOLD		CDNT URD F/ELAST TERM CDNT URD F/ELAST TERM B55 00500220
21 1850	CONTACT F/URD ELBOW 15KV DR 35KV 600 AMP 500 KCH	ELASTIMOLD		CDNT F/URD EL 500KCH 03700530
21 1860	CONTACT F/URD ELBOW 15KV DR 35KV 600 AMP 550KCH	ELASTIMOLD		CDNT F/URD EL 550KCH 03700500
21 1890	CONTACT F/URD ELBOW 15KV DR 35KV 600AMP 4/0 AL	ELASTIMOLD		CDNT F/URD EL 4/0 AND 03700270
21 1920	ELBOW HOUSING F/15KV 600 AMP	ELASTIMOLD		ELBOW HOUSING F/15KV K655BLR
21 1921	ELBOW HOUSING FOR 35KV 600AMP NON LOAD BREAK ELBOW	ELASTIMOLD		ELBOW HOUSING 35KV 600A 755BLR
21 1923	TAP WELL 15KV REDUCING 600AMP URD ELBOW TO 200AMP BUSHING	ELASTIMOLD		TAP WELL 15KV600X200AMP K650RTM
21 1924	TAP WELL WITH STUD 15KV REDUCING 600 AMP URD ELBOW TO 200 AMP BUSHING	ELASTIMOLD		TAPWELL W/STUD15KV K650RTWS
21 1930	FAULT INDICATOR 200AMP TRIP PUSH BUTTON RESET TO FIT 0.25 TO 1.2 INCH WIRE OR CABLE	COOPER POWER		FAULT IND 200 AMP B13755BB05M
21 1951	FAULT INDICATOR 200AMP TRIP PUSH BUTTON RESET TO FIT 1.2 TO 2.5 INCH WIRE OR CABLE	COOPER POWER		FAULT IND 200 AMP B13755BB05MA
21 1952	FAULT INDICATOR 400 AMPERE TRIP PUSH BUTTON RESET TO FIT 1.2" TO 2.5" WIRE OR CABLE PER CMP SPEC 21-001 DATED 05/05/93	COOPER POWER		FAULT IND 400 AMP B13755BB06MA
21 1934	FAULT INDICATOR 800 AMPERE TRIP PUSH BUTTON RESET TO FIT 1.2 TO 2.5 INCH WIRE OR CABLE PER CMP SPEC 21-001 DATED 05/05/93	COOPER POWER		FAULT IND 800 AMPERE B13755BB08MA
21 1950	EXT URD BUSHING 15KV 600AMP	ELASTIMOLD		EXT URD BUSHING K655BE
21 2640	GUARD CABLE DUCT MOUTH	VIRGINIA		GUARD CBL DUCT MOUTH LG-34S

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
21 2650	LUG FOR 350 KCHIL COPPER 2 HOLE	BURNDY	LUG 350KCHIL CU 2 HOLE YA31-2N
21 2669	LUG URD PADMOUNT ALUM 500KCH CONC AND COMPRESSED ONE HOLE	BLACKBURN	LUG PAD MT AL 500KCH ALS-25
21 2670	LUG URD PADMOUNT COMPRESSION ALUMINUM 400 KCH COMPACT COND. TWO HOLE. FOR USE ON COMPACT CABLE (S/C 20-1514) ONLY	HDMAC	LUG PAD MT COMP AL 400 SAD400-H
21 2671	LUG URD PADMOUNT COMPRESSION ALUMINUM 500 KCH TWO HOLE	HDMAC	LUG PAD MT COMP AL 500 SAB500-N
21 2672	LUG URD PADMOUNT ALUM HD 4 CONC AND CONPR	ANDERSON BLACKBURN ANDERSON	LUG PAD MT AL 4 AD-4-12 ALS81 VAULH-4-12
21 2673	LUG URD PADMOUNT ALUM HD 2 CONC AND CONPR	HDMAC	LUG PAD MT AL 2 SA3-4B
21 2674	LUG URD PADMOUNT ALUM NO 2/0 CONC AND CONPR	BLACKBURN	LUG PAD MT AL 2/0 SA445-4B
21 2675	LUG URD PADMOUNT ALUM HD 4/0 CONC AND CONPR	BLACKBURN HDMAC	LUG PAD MT AL 4/0 CAL40 SA550-4B
21 2676	LUG URD SUBMERSIBLE ALUM HD 4	BLACKBURN	LUG URD SUB AL 4 LAC-4
21 2677	LUG URD SUBMERSIBLE ALUM HD 2	BLACKBURN	LUG URD SUB AL 2 LAC-2
21 2678	LUG URD SUBMERSIBLE ALUM HD 2/0	BLACKBURN	LUG URD SUB AL 2/0 LAC-20
21 2679	LUG URD SUBMERSIBLE ALUM HD 4/0	BLACKBURN	LUG URD SUB AL 4/0 LAC-40
21 2680	LUG URD SUBMERSIBLE ALUM 500KCH	BLACKBURN	LUG URD SUB AL 500 LAC-50
21 2681	LUG PADMOUNT FOR HD 12 COPPER	3H	LUG PAD MT HD 12 CU H10-12RK
21 2682	COVER URD 600V F/ URD SUBMER CONH HD4 & HD2 HMW & HDP HD2 #2/0 KLP	ANDERSON	CVRURD600VSUBCONH 2/0KLP SB-2

HBA108-01

CENTRAL MAINE POWER COMPANY
CONTRACTOR ITEM CATALOGPAGE: 19
DATE: 11/04/03

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
21 2684	COVER URD 600V F/URD SUBMER CONH 2/0 A 4/0 HMW & HDP & 4/0 XLP	ANDERSON	CVRURD600VSUBCONH 4/0KLP SB-3
21 2685	COVER URD 600V F/URD SUBMER CONH 500 MCM HMW&HDP ORKLP	ANDERSON	CVR URD 600V 500 MCM LB-3
21 2687	COVER URD 600V F/URD SUBMER CONH HD 4 XLP	ANDERSON	CVR URD 600V HD4 X LP SB-1
21 2689	COVER URD 600V F/URD SUBMER CONH BLANK	BLACKBURN ANDERSON	CVR URD 600V BLANK SO SO-1
21 2700	MOLE STUD 6 OUTLET #6-600KCH 1 1/2 INCH - 12 STUD 2000 AMPERE	BURNDY	MOLE STUD 6 OUT I 1/2IN ZMLDN6-20
21 2710	MOLE STUD 6 OUTLET FOR #6 - 600KCH CABLE DOUBLE RISERS. FITS 1-1/2 INCH - 12 THREADS PER INCH STUD 2000 AMPERS.	BURNDY	MOLE STUD 6OUT 1-1/2 DBL ZMLDN6-20
21 2730	MOLE STUD 4 OUTLET #6-600KCH 1 1/2 INCH - 12 STUD 2000 AMPERE	BURNDY	MOLE STUD 4 OUT 1 1/2IN ZMLDN4-20
21 2760	MOLE STUD 6 OUTLET #6-600 KCH 3 INCH - 12 STUD 2500 AMPERE	BURNDY	MOLE STUD 6 OUT 3 INCH ZMLDN6-25
21 2784	MOLE STUD CONH 6 POSITIONS FOR NO 6 STR TO 600KCH CABLE DOUBLE RISERS FITS 3 IN X 12 THREADS PER INCH STUD 3 1/4 INCHES LONG 3000 AMPERE	NAC PRODUCTS BURNDY	MOLE STUD 6OUT3IN DBL MEDD 300-6B ZMLDN 6-30
21 2850	MOLE UNDERGROUND 8 OUTLET TWO WAY #6 STR-600KCH 2500 AMP	BURNDY	MOLE UNGR 8 OUT 600 MCM ZHB-25
21 2880	MOLE UNDERGROUND 12 OUTLET TWO WAY #6 STR-600KCH 2500 AMP	BURNDY	MOLE UNGR 12 OUT 600KCH ZM12-25
21 2940	MOLE UNDERGROUND 16 OUTLET TWO WAY #6 STR-600KCH 2500 AMP	BURNDY	MOLE UNGR 16 OUT 600KCH ZM16-25
21 2970	MOLE UNDERGROUND 4/0 STR. RUBBER INSULATOR	BURNDY	MOLE UNGR 4/0 STR YFH2BCR
21 3000	MOLE UNDERGROUND 500KCH	BURNDY BURNDY BURNDY	MOLE UNGR 500 KCH YFH34CR YFH34CR YFH34CR

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	21 3090	PLUG RUBBER UNDERGROUND NETWORK CONNECTOR FOR A HDLE OUTLET	BURHDY		PLUG RUBBER NETWORK CON 229P
	21 3152	PLUG URD LOADBREAK BUSHING 35KV SINGLE PHASE FOR USE WITH S/C21-4112 ELBOW	ELASTIHOLD		PLUG URD L/B BU 35KV IP 3701A4
	21 3200	BUSHING WELL-CLAMP IN 200AMP, 125KV BIL, 15.2KV MAX LINE-GRD ID REPLACE PRIMARY BUSHING ON 7.2 AND 12.47KV PDLE HOULT TRANSFORMERS. REQUIRES BUSHING INHRT S/C 21-3210 TO ACCEPT 15KV, 200AMP LOAD BREAK ELBOWS. <u>=====</u> EACH ASSEMBLY WILL INCLUDE: 1 HI-WELL # 70212182	HOWARD INDUST CENTRAL MOLOH		BUSHING WELL CLAHP IN 0060-01204B-000 70212196
	21 3210	PLUG URD LOAD BREAK BUSHING 15KV	COOPER POWER ELASTIHOLD		PLUG URD L/B BU 15KV LBIZ15 1601-A4
	21 3240	PLUG URD LOADBREAK BUSHING 15 KV DOUBLE 200AMP	COOPER POWER		PLUG URD L/B BU 15KVDBL LFI215
	21 3270	PLUG URD PARKING INSULATED F/15KV 200AMP LOADBREAK ELBOW	BLACKBURN ELASTIHOLD COOPER POWER		PLUG PARKING 15KV 200A J29B 16150P 2625063B01M
	21 3280	PLUG URD PARKING INSULATED FOR 35KV 200A LOADBREAK ELBOW S/C 21-4112	ELASTIHOLD		PLUG PARKING 35KV 200A 372SDP
	21 3300	PLUG URD DEADEND 15KV 600AMP	ELASTIHOLD		PLUG URD D/E 15KV 600A 650BIP
	21 3301	STUD THREADED FOR USE WITH 15KV 600 AMPERE BUSHINGS AND ELBOWS	ELASTIHOLD		STUD THREADED 600A 15KV 650SA
	21 3330	PLUG URD CONNECT 15KV 600AMP	ELASTIHOLD		PLUG URD CONN 15KV 600A K650CP
	21 3340	PLUG URD CONNECTOR 35KV 600AMP	ELASTIHOLD		PLUG URD CONN 35KV 600A 750CP
	21 3346	PLUG URD BASIC 35KV 600AMP	ELASTIHOLD		PLUG URD BAS 35KV 600A 750BIP
	21 3347	STUD THREADED FOR USE WITH 600 AMP 35KV BUSHING AND ELBOWS	ELASTIHOLD		STUD THD 600 AMP 35KV 750SA

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
21 3348	ELBOW TAP PLUG FOR 600 AMP BUSHING TO ALLOW USE OF 200 AMP TAPS - 35KV	ELASTIHOLD		ELBOW TAP PLUG 750ETP
21 3700	STAND PARKING TEMPORARY FOR FEED THROUGH BUSHING SEE DISTRIBUTION STANDARDS PAGE 393-2 FOR CONSTRUCTION	STEEL PRD INC. T.N. DICK		STAND PARK TEMP FD THRU CMP DNG. 393-2 CMP DNG. 393-2
21 3750	RACK HDLE SPECIAL ORDER MADE PER CMPCD SPECIFICATIONS AS REQUIRED FOR EACH SPECIFIC JOB APPLICATION			RACK HDLE SPECIAL ORDER
21 3780	URD FEED THRU 15KV 2 WAY	BLACKBURN COOPER POWER ELASTIHOLD		URD FEED THRU 15KV 2WAY JFT2810C LPF215H 164FT
21 3784	URD FEED THRU 35KV 200AMPERE LOADBREAK 2 WAY FOR USE WITH S/C 21-4112 ELBOW	ELASTIHOLD		URD FEED THRU 35KV 2WAY 373FT
21 3870	RECEPTACLE URD JUNCTION 3 WAY 15KV ANY SURFACE MOUNT	ELASTIHOLD		RCPT JCT 3 WAY ANY HT 164J3
21 3960	RECEPTACLE URD JUNCTION 4 WAY 15KV ANY SURFACE MOUNT	ELASTIHOLD		RCPT JCT 4 WAY ANY HT 164J4
21 3990	URD LOAD BREAK ELBOW FOR 15KV HOZ WITH 175 AND 220 MIL INSULATION	COOPER POWER ELASTIHOLD CHARDON		URD ELBOW L/B #2 LE215A04T 166-LR-B-5220 9U01AAE623
21 4112	RECEPTACLE URD ELBOW LOADBREAK 35KV 1/0 CONCENTRIC OR COMPRESSED ALUMINUM SEE 21-3152 FOR ONE PHASE BUSHING SEE 21-3154 FOR THREE PHASE BUSHING	ELASTIHOLD		RCPT EL L/B 35KV 1/0STR 376LR-J5240
21 4115	ELBOW LOADBREAK URD 35KV 4/0 CABLE STRANDED OR COMPRESSED	ELASTIHOLD		ELBOW L/B 35KV 4/0 URD 376LR-K5270
21 4230	RECEPTACLE URD LOAD BREAK ELBOW 15KV HO 4/0 ALUM OR COPPER (USE 21-1484 AS REPLACEMENT CONNECTOR AND 21-1500 AS REPLACEMENT CONTACT PIN)	ELASTIHOLD CHARDON		RCPT EL L/B 4/0 AL&CU 166LR-C-5270 9U01AAD648
21 4320	RECEPTACLE 15KV URD DEAD END CAP (BUSHING COVER)	COOPER POWER ELASTIHOLD CHARDON		RCPT 15KV URD D/E CAP LPC215 160DRG 9U01AEW400

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	21 4328	RECEPTACLE 35KV URD DEAD END CAP FOR USE WITH S/C 21-3968 4 WAY JUNCTION	ELASTIMOLD		RCPT D/END L/B 35KV URD 375DR0(3)A
	21 4380	RECEPTACLE URD DEAD END (BUSHING COVER) 600 AMPERE 15KV	ELASTIMOLD		RCPT D/END 15KV 600A 656DR
	21 4500	URD LOADBREAK ELBOW 15KV TO FIT 35KV 1/0 CONCENTRIC & COMPRESSED ALUMINUM	COOPER POWER ELASTIMOLD CHARDON		URD ELBOW L/B 15KV F/35 LE215006T 166LR-D-5240 9U01AAD665
	21 4530	URD SEAL KIT FOR 15 & 35 KV LOADBREAK ELBOWS ON JACKETED CABLE	3M		URD ELBOW SEAL KIT B452
	21 4620	SLEEVE HOLE OUTLET INSULATED 4/0 CU	BURNDY		SLV HOLE INS 4/0 CU 272C3029
	21 4650	SLEEVE HOLE OUTLET INSULATED 500 MCM CU	BURNDY		SLV HOLE INS 500MCM CU 28BC3429
	21 4860	SLEEVE LEAD SPLICING 5 INCH			SLEEVE LEAD SPLICE 5
	21 4862	SLEEVE LEAD SPLICING 5 1/2 INCH INSIDE DIAMETER			SLEEVE LEAD SPLICE 5 1/2
	21 4890	SOCKET AND NUT ASSEMBLY UNDERGROUND FOR USE W/BURNDY HOLE 4/0	BURNDY		SOCKET & NUT ASY 4/0 Z28NR
	21 4920	SOCKET AND NUT ASSEMBLY UNDERGROUND FOR USE W/BURNDY HOLE 500 MCM	BURNDY		SOCKET & NUT ASY 500MCM Z34NR
	21 5100	SPLICER STRAIGHT URD 4/0 AL 15KV (USE 58-5220 SLEEVES AS REPLACEMENT SLEEVES)	3M		SPL URD STRAIGHT 4/0AL 5412-CI-4/0
	21 5130	SPLICING KIT URD 15KV #2 AWG STRANDED AL HOLED RUBBER	ELASTIMOLD 3M		SPL KIT URD 15KV #2AL 15PCJIF1220 5411-CI-21
	21 5132	SPLICE KIT REPAIR 15KV #2 ALUMINUM (REPLACES UP TO 6 INCHES OF CABLE)	3M		SPL KIT 15KV#2AL REPAIR 5411R/CIR-21
	21 5150	SPLICE COVER KIT FOR 15KV 4/0 AND #2AL SPLICES ON JACKETED CABLE	3M		SPL CVR 15KV 4/0 & #2 SJ-1A
	21 5151	SPLICE COVER KIT FOR DIRECT BURIAL CABLE 1/0 35KV JACKETED	3M		SPLICE COVER 35KV SJ-2A
	21 5210	SPLICE COVER KIT FOR 600V 12-2UF STRAIGHT SPLICE	3M		SPL CVR KIT 600V 12-2UF B2-A1

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	21 5211	SPLICE SLEEVE VINYL INSULATED NO 12 SEAKLESS	3M		SPLICE SLEEVE NO 12 MV10BCX
	21 5220	SPLICE COVER KIT URD 600V NO 2 & 4	3M		SPL KIT URD 600V NO 2&4 B424-8
	21 5250	SPLICE COVER KIT URD 600V 2/0 & 4/0	3M		SPL KIT URD 2/0&4/0 XLP B426-11
	21 5280	SPLICING KIT URD FOR STREET LIGHT TAP 600V NO 4 MMN & MOP TO NO 12 IN KIT FITS CABLE WITH A DIAMETER RANGING FROM 0.37 INCHES MIN. TO 0.45 INCHES MAX.	BUCHANAN		SPL KIT URD 4MMN-12TN B35-A0B1-C
	21 5310	SPLICING KIT URD FOR STREET LIGHT TAP 600V NO 2 MMN & MOP TO NO 12 TW KIT FITS CABLE WITH A DIAMETER RANGING FROM 0.42 INCHES MIN. TO 0.505 INCHES MAX.	BUCHANAN		SPL KIT URD 2MMN-12TW B35-EAFB1-C
	21 5340	SPLICING KIT URD FOR STREET LIGHT TAP 600V NO 4 XLP TO NO 12 TW, KIT FITS CABLE WITH A DIA. RANGING FROM 0.35 INCHES MIN. TO 0.58 INCHES MAX.	BUCHANAN		SPL KIT URD 4XLP-12TW B35-A0B1-C (S/C 21-5340)
	21 5440	SPLICE COVER KIT URD 600V 500KCM	3M		SPL KIT URD 600V 500KCM 8427-12
	21 5455	SPLICING KIT 15KV 350KCM ALUMINUM DUCT CABLE POLYETHYLENE INSULATED	3M		SPL 15KV 350KCM AL DUCT 5503-CI-350
	21 5465	SPLICER KIT, COLD SHRINK, FOR 15KV 175MIL 500KCMIL COPPER OR ALUMINUM CABLE- SPLICE BODY FITS CABLES WITH JACKET CONCENTRIC NEUTRAL OR DRAIN WIRES TYPE CABLE WITH PRIMARY INSULATION O.D. 1.02-1.55 INCHES. INCLUDES CONNECTOR FOR 500KCMIL ALUMINUM OR COPPER CONDUCTOR.	3M		SPLICER 15KV 500 CU&AL 5417-500-AL
	21 5470	SPLICE SHIELDING AND GROUNDING KIT FOR USE WITH 15KV COLD SHRINK SPLICE S/C 21-5465 WHEN SPLICING TAPE SHIELDED CABLES	3M		SPLICE SHIELD & GRD KIT SG-2

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	21 5650	SPLICE KIT 15KV COLD SHRINK FOR SPLICING 4/OPILC TO 350KCH POLY/EPR DR 4/0 PILC. REQUIRES OIL STOP SLEEVE USE S/C# 58-3530 FOR 350KCH AL TO 4/0 CU	3M		SPL 4/OPILC TO 350POLY 05-2012T
	21 5700	SPLICING KIT URD 54.5KV 1/0	COOPER POWER ELASTIMOLD 3M		SPL KIT URD 34KV 1/0 AL SP35E004 35PCJIK1240 5432/CI-1/0A
	21 5710	SPLICE KIT URD 54.5KV 1/0 AL TO 4/0 AL	ELASTIMOLD		SPL KT URD 35KV 1/0-4/0 35PCJ2K1270-J1240
	21 5728	SPLICING KIT FOR 35KV FOR 350-750KCHIL CABLE WITH 345HTL INSULATION. SPLICE BODY FOR USE WITH CABLES HAVING PRIMARY INSULATION O.D. RANGE OF 1.31-2.12 INCHES. CONNECTOR SLEEVE FOR 500KCHIL COPPER OR ALUMINUM INCLUDED. FOR 350 KCHIL ALUMINUM OR COPPER USE S/C# 58-3180 FOR 750 KCHIL USE S/C# 58-3540.	3M		SPL KIT 35KV-750KCHIL 5536-500-AL
	21 5740	SPLICE KIT URD 34.5KV 750KCH ALUMINUM XLP INSULATED	ELASTIMOLD		SPL KIT URD 35KV 750AL M650S-PO380-PO380
	21 5840	GROUND DEVICE DRAIN WIRE SHIELDED 500KCH 11KV XLP CABLE WITH 220MIL INSUL TO ELASTIMOLD 650 SERIES ACCESSORIES	ELASTIMOLD		GRND DEV F/WIRESHD 500K GRND DEV F/WIRESHD 500K857 31-MA-JA
	21 5845	CABLE ADAPTER DRAIN WIRE SHIELDED 750KCH 35KV XLP CABLE WITH 345 NIL INSUL TO ELASTIMOLD 650 SERIES ACCESSORIES FOR USE WITH S/C21-5740 SPLICE ETC.	ELASTIMOLD		CBL ADPT 750KCH TO ACC 31NA-PA
	21 5847	SHIELDING WIRE ADAPTER GROUNDING KIT FOR TAPE SHIELD CABLES TO BE USED WITH S/C 21-5849	3M		GRND KIT/TAPE SHD CABLE 6SNA-8
	21 5848	TERMINATOR, SILICON RUBBER, COLD SHRINK, FOR USE WITH CABLES HAVING PRIMARY INSULATION O.D. RANGE OF 0.72-1.29 INCHES. FITS 15KV #2, 1/0, AND 4/0 URD AND SUBMARINE CABLES. REQUIRES TERMINAL CONNECTOR, RECOMMENDED PIN TERMINALS ARE: #2AL OR CU- S/C 11-9045, 1/0AL- S/C 11-9048 AND 4/0AL- S/C 11-9072	3M		TERN SIL RUB 15KV#2-4/0 7653-S-4

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	21 5849	TERMINATOR, SILICON RUBBER, COLD SHRINK, FOR USE WITH CABLES HAVING PRIMARY INSULATION O.D. RANGE OF 1.05-1.80 INCHES. FITS 15KV-350, 500, AND 750 KCH AND 35KV - 1/0, 2/0, 4/0, 350, 500 AND 750 MCH URD, SUBMARINE AND DUCT TYPE CABLES. REQUIRES S/C 21-5847 FOR USE W/ SHIELDED CABLES. REQUIRES PIN OR LUG TERMINAL CONNECTOR. RECOMMENDED PIN TERMINALS	3M		TERN SIL RUB 15 & 35 KV 7655-S-4
	21 6220	WEATHER HEAD SERVICE ENTRANCE CABLE UP TO 3 NO 2 1 AND 8 # 5552	BLACKHAWK BRISCON		WEATHER HEAD SERV CAB #720 100SE
	22 0922	GUARD LINE CLIP ON 1 INCH LG BY 8 FT	HENDRIK HENDRIK		GUARD LINE CLIP ON STAN LD-1 LINE DUC REG
	22 0923	GUARD LINE CLIP ON JUMBO K 8 FT LONG	HENDRIK HENDRIK		GUARD LINE CLIP ON JUMBO LD-2 LINE DUC JUMBO
	22 1500	SPACER WITH TIES - SINGLE PHASE FOR UP TO 20 KV	HENDRIK		SPACER - SINGLE - 20KV H20V
	22 1520	SPACER WITH TIES FOR 15KV CABLE	HENDRIK RELIABLE ELEC		SPACER W/TIES F/15KV H-15D S-8
	22 1525	SPACER CABLE CLAMP 15KV HENDRIK	HENDRIK		SPACER CABLE CLAMP 15KV RTL-15
	22 1530	GRIP, NEOPRENE COATED, PREFORMED, PARTIAL TENSION, FOR 1/0 SPACER CABLE APPLICATIONS ONLY	HENDRIK		GRIP D/E 1/0 SPACER CBL ND-0115
	22 1531	GRIP, NEOPRENE COATED, PREFORMED, PARTIAL TENSION, FOR 336.4 SPACER CABLE APPLICATIONS ONLY	HENDRIK		GRIP D/E 336 SPACER CBL ND-0120
	22 1532	GRIP, NEOPRENE COATED, PREFORMED, PARTIAL TENSION, FOR 477 SPACER CABLE APPLICATIONS ONLY	HENDRIK		GRIP D/E 477 SPACER CBL ND-0122
	23 0520	CONDUIT GALVANIZED 1 1/4 INCH			CDI GALV 1 1/4 IN
	23 0530	CONDUIT STEEL GALVANIZED 2 INCH INSIDE DIAMETER			CDT STL G 2 IN IO

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	23 0536	CONDUIT STEEL GALVANIZED 2 1/2 INCH INSIDE DIAMETER			CDT STL G 2 1/2 IN ID
	23 0550	CONDUIT STEEL GALVANIZED 4 INCH INSIDE DIAMETER			CDT STL G 4 IN ID
	23 0555	CONDUIT STEEL GALVANIZED 5 INCH INSIDE DIAMETER			CDT STL G 5 IN ID
	23 0560	CONDUIT STEEL GALVANIZED RIGID 6 INCH ID			CDT STL G 6 IN ID
	23 0730	CONDUIT PVC RIGID SCHEDULE 40 2 1/2 INCH INSIDE DIAMETER			CDT PVC 2 1/2 IN SCH 40
	23 0738	CONDUIT PVC 4 INCH NOMINAL 0.130 MINIMUM WALL BY 4.500 OUTSIDE DIAMETER WITH ONE BELLED END PER LENGTH	CARLON		CDT PVC 4IN 0.130 WALL 48815
	23 0748	CONDUIT PVC 6 INCH NOMINAL 0.155 MINIMUM WALL BY 6.625 OUTSIDE DIAMETER WITH ONE BELLED END PER LENGTH	CARLON		CDT PVC 6IN 0.155 WALL 48817
	23 4260	CONDUIT FITTING PLUG 6 INCH GALVANIZED STEEL THREADED			C/F PLUG 6IN GALV STL
	23 4280	CONDUIT FITTING KORODUCT PLASTIC PLUG 4 INCH INSIDE DIAMETER	JOHNS MAN		CF KORO PLST PLUG 4IN SI-67
	23 4283	CONDUIT FITTING PLUG PVC 6 INCH	CARLON		C/F PLUG PVC 6 INCH P258R
	23 5225	CONDUIT FITTING BELL END PVC 4IN FOR CONCRETE ENCASEMENT	CARLON		C/F BELL END PVC 4IN E997N
	23 5241	CONDUIT FITTING PVC BELL END 6 INCH	CARLON		C/F BELL END PVC 6 INCH E997R
	23 5416	CONDUIT FITTING STEEL GALVANIZED BEND 90 DEGREE 4 INCH 48 INCH RADIUS			CF G BEND 90 4 IN R 48
	23 5425	CONDUIT FITTING STEEL GALVANIZED BEND 90 DEGREE 6 INCH 48 INCH RADIUS			CF G BEND 90 6 IN R 48
	23 5476	CONDUIT FITTING BEND PVC 5 DEGREE 4 INCH	CARLON		C/F BEND PVC 5 DEG 4 IN E244N
	23 5486	CONDUIT FITTING BEND PVC 5 DEGREE 6 INCH	CARLON		C/F BEND PVC 5 DEG 6 IN E244R

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	23 5709	CONDUIT FITTING PVC BEND 90DEGREE 4 INCH FOR CONCRETE ENCASEMENT 0.130 MIN WALL BY 4.500 OUTSIDE DIAMETER 36 INCH RADIUS	CARLON		C/F BEND PVC 90 DEG 4IN E7840N
	23 5830	CONDUIT FITTING STEEL GALVANIZED GROUND-ED BUSHING 4 INCH	0-2 GEDNEY 0-2 GEDNEY		CF STL G GRD BU 4 IN 8LG-4124 0LG-4124
	23 5840	CONDUIT FITTING STEEL GALVANIZED GROUND-ED BUSHING 6 INCH	0-2 GEDNEY		CF STL G GRD BU 6 IN 8LG-6124
	23 8126	CONDUIT FITTING SPACER PLASTIC INTERMDIA 4 IN X 1 1/2 IN SEPARATION	UNDERGROUND		C/F SPACER 4X1 1/2 INTM PRODUCTS CODE 185
	23 8128	CONDUIT FITTING SPACER PLASTIC INTERMED 6IN X 1 1/2IN SEPARATION INTERLOCK	UNDERGROUND		C/F SPACER INT I 1/2X6 PRODUCTS CODE 132
	23 8176	CONDUIT FITTING SPACER PLASTIC BASE 4IN X 1 1/2IN SEPARATION X 3IN BASE	UNDERGROUND		C/F SPACER 4X1 1/2 BASE PRODUCTS CODE 186
	23 8178	CONDUIT FITTING SPACER PLASTIC BASE 6IN X 1 1/2IN SEPARATION 3IN RISE INTERLOCKING	UNDERGROUND		C/F SPACE BASE 6XI 1/2 PRODUCTS CODE 133
	23 8295	CONDUIT FITTING HOT DIP GALVANIZED STRAP 2 HOLE 4 INCH POLE MOUNTING 7/16 INCH HOLES	DAPS		CF GALV STP 2H 4IN PDLE CMP 62
	23 8313	CONDUIT FITTING HOT DIP GALVANIZED STRAP 2 HOLE 6 INCH POLE MOUNTING 9/16 INCH HOLES	DAPS		CF GALV STP 2H 6IN POLE CMP 62
	23 9011	U GUARD 2 INCH X 10 FOOT SCHEDULE 40 PVC WITH BELL END TO FIT OVER 2 INCH CONDUIT	CARLON		U GUARD 2"X10" BELL END S9011
	23 9015	U GUARD 4 INCH X 10 FOOT SCHEDULE 40 PVC WITH BELL END TO FIT OVER 2 1/2 TO 4 INCH CONDUIT	CARLON		U GUARD 4"X10" BELL END S9015
	23 9025	U GUARD TO CONDUIT ADAPTER 4 INCH	CARLON		U GUARD COND ADAPTER 4" E939N
	23 9111	U GUARD BACKING PLATE 2 INCH X 10 FOOT FOR USE WITH S/C 23-9011	CARLON		U GUARD BACK PLATE 2"X10 S9111
	23 9115	U GUARD BACKING PLATE 4 INCH X 10 FOOT FOR USE WITH S/C 23-9015	CARLON		U GUARD BACK PLATE 4X10 S9115

LINE	DESCRIPTION	MANUFACTURER
ITEM	DESCRIPTION	NAME PART NUMBER
25 0120	ANCHOR EXPANDING 8 MAY 200 SQ IN 1IN ROD	JOSLYN HUBBELL ANC EXP BNAY-10 IN MOLE J8200-I 1082
25 0180	ANCHOR LOG 6 X 8 IN X 4 FT	ALL MAKES ANC LOG 6XB IN X 4 FT OMG T1ISR-36
25 0240	ANCHOR POLE KEY EXPANDING	A B CHANCE ANC POLE KEY EXPANDING P4817
25 0360	ANCHOR ROCK EXPANDING 30X1 ROD 2 3/8 IN LEDGE MOLE	JOSLYN A B CHANCE ANC ROCK 30IN 2 3/8IN JRI30L RI30L
25 0390	ANCHOR ROCK EXPANDING 53X1ROD 2 3/8 IN LEDGE MOLE	JOSLYN A B CHANCE HUBBELL ANC ROCK 53IN 2 3/8IN JRI53L RI53L RI53L
25 0405	ANCHOR ROCK EXPANDING 72X1 ROD 2 3/8 IN LEDGE MOLE	JOSLYN A B CHANCE ANC ROCK 72IN 2 3/8IN JR172L R172L
25 0420	ANCHOR ROCK EXPANDING 96X1ROD 2 3/8 IN LEDGE MOLE	JOSLYN A B CHANCE ANC ROCK 96IN 2 3/8IN JRI96L RI96L
25 0470	ANCHOR POWER INSTALLED 15 INCH SINGLE HELIX FOR 3/4" OR 1" ROD	DIXIE ELECT ANC PNR 15 IN I HELIX OT-154
25 0515	ANCHOR POWER INSTALLED 10 INCH 10,000 LB TORQUE SINGLE 1/2 INCH THICK CURVED LEADING EDGE HELIX	DIXIE ELECT A B CHANCE ANC PNR IHEL HI TORQ IO OT-104-1 TI02-S229
25 0531	ANCHOR ROD 3/4 INCH X 7 FEET WITH TRIPLE EYE NUT FOR PNER INSTALLED SCREW ANCHOR	DIXIE ELECT JOSLYN ANC ROD 7FTX3/4 PNR 075T DIXIE ELECT J12254R.3
25 0532	ANCHOR ROD 1 INCH X 7 FEET WITH TRIPLE EYE NUT FOR POWER INSTALLED SCREW ANCHOR	DIXIE ELECT A B CHANCE JOSLYN ANC ROD 7FTX1IN PWR D100T E102-00S3 J12255R.3
25 0540	ANCHOR EXTENSION ROD 3/4 INCH X 3 1/2 FT WITH COUPLING	DIXIE ELECT JOSLYN A B CHANCE ANC EXT ROD 3 1/2FTX3/4 D-753 1/2-C J12250 I2250

LINE	DESCRIPTION	MANUFACTURER
ITEM	DESCRIPTION	NAME PART NUMBER
25 0570	ANCHOR EXTENSION ROD 1 INCH X 3 1/2 FEET WITH COUPLING	DIXIE ELECT JOSLYN A B CHANCE ANC EXT ROD 3 1/2FT X1 D-1003 1/2-C J12251 I2251
25 0575	COUPLING, ONE INCH FOR USE WITH S/C 25-0531, 25-0532, 25-0540, AND 25-0570	DIXIE ELECT JOSLYN A B CHANCE COUPLING, ONE INCH D-354 J23161.2 I2247P
25 0670	BRACE SIDEWALK CLAMP DOUBLE	COOPER POWER BRACE SIDEWALK CL DOUBLE 0502
25 0680	BRACE SIDEWALK POLE PLATE	COOPER POWER BRACE SIDEWALK POLE PLT 0G101
25 0810	GRIP GUY GALV 5/16 PREFORMEO	PREFORMEO HELICAL OULNISON CL GUY PREF GRIP 5/16 G0E-1106 HG209S/16 S66-0790
25 0840	GRIP GUY GALV 7/16 PREFORMED	PREFORMED HELICAL OULNISON CL GUY PREF GRIP 7/16 G0E-1108 HG2117/16 S66-1105
25 0841	GRIP GUY 7/16 AUTOMATIC FOR ANCHOR END ONLY OF 7 STRAND 7/16 GALVANIZED GUY STRAND	FARGO RELIABLE ELEC GRIP GUY 7/16 AUTOMATIC G0E-705 S203
25 1110	EYE GUY AUXILIARY	FLAGG EYE GUY AUXILIARY PA155
25 1230	GUY MARKER PLASTIC GRAY	ELECTRICAL HTLS CO GUY MARKER PLASTIC GRAY 70-70-NOC
25 1260	GUY MARKER PLASTIC YELLOW	ELECTRICAL HTLS CO GUY MARKER PLAST YELLOW 70-7Y-NOC
25 1380	HOOK GUY FOR 1/4 - 7/16 STRAND	HACLEAN CONTINENTAL ELECTRI JOSLYN HOOK GUY 7/16 STRAND AG-6X B-3/4 P133A
25 1600	INSULATOR GUY STRAIN FIBERGLASS 30,000 LB 78IN.	HUGHES BROS INC CONTINENTAL ELECTRI FLAGG INS GY STN 30K LB 78IN CF695-7BR GCC30-7BR 300-78

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	25 1620	INSULATOR STRAIN FIBERGLASS 21000 LB 36 INCH	HUGHES BROS INC CONTINENTAL ELECTRI FLAGG		INS STRAIN 21000LBX36IN CF694YCC36R GYCC21-36R 210-36CV
	25 1650	SWITCH MAT, 4FT X 6FT, 6 IN X 6 IN MESH, NO. 6 SOLID COPPER, 1/0 SOLID COPPER CENTER WIRE WITH 6 IN OVER- HANG BOTH ENDS	ERICO		SN MAT 4X6FT N/6IN MESH NKS3371
	25 1680	NOULGING PLASTIC 1/2 IN FOR GROUND WIRE (50 PIECES = 400LF)	NENMAN, H H ELECTRICAL NTLS CO VPANDC		NOULGING PLAS 1/2 IN GR GWN-1/2 PEGH1/2-B VP-1/2/GWN
	25 1740	PIPE STEEL GALV 2 INCH X 21 FOOT FOR SIDEWALK GUYS			PIPE STEEL GALV 2 IN
	25 1800	PLATE GUY ATTACHMENT F/FIBERGLASS STRAIN INSULATOR	CONTINENTAL ELECTRI FLAGG FLAGG		PLATE GUY ATT FG INS PEP66-45 PX-88 PX-88
	25 1860	ROD GROUND GALVANIZED PLAIN WITH CONE POINT PER EEI SPEC TOJ-30 3/4 INCH X 8 FEET	BLACKBURN GALVAN JOSLYN PORCELAIN PRO A B CHANCE		ROD GROUND GALV 3/4X8FT GR7508 GR7508 JS338 7348 8618
	25 1950	ROD GROUND COPPER-COVERED SECTIONAL 3/4 INCH X 10 FEET (3/4 INCH FULL SIZE SHANK WITH CUT THREADS) FORWARD FACTORY CERTIFICATION OF 10 MIL MINIMUM COPPER COVERING AT ANY POINT WITH EACH SHIPMENT OF RODS.	JOSLYN ERITECH ERITECH BLACKBURN		ROD GR C/M SEC 3/4X10 J9170-13 633403 633403 7510S-15N
	25 1955	ROD GROUND ACCESSORY STEEL DRIVING STUO 3/4 INCH	ERITECH JOSLYN HUBBARD ITT BLACKBURN		ROD GR ACC STL STUO 3/4 DS J9187 29535 70 DS
	25 1960	ROD GROUND ACCESSORY COUPLER 3/4 INCH COPPERCLAD	ERITECH JOSLYN ITT BLACKBURN HUBBARD		ROD GR ACC CPL 3/4 INCH CR34 J9183 70 C 9535

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	25 2040	ROD ANCHOR GALVANIZED DOUBLE STRAND EYE PER EEI SPEC TO-2 3/4IN X 8FT	JOSLYN A B CHANCE HUBBELL		ROD GUY DT 3/4 X 8 FT J7528 5358 5358
	25 2100	ROD GUY TWIN EYE 1IN X 10FT	JOSLYN A B CHANCE		ROD GUY TWIN EYE 1X10FT J7540 5370
	25 2730	WIRE 5/16 EXTRA HIGH STRENGTH CLASS "A" GALVANIZED PREFORMED STRAND PER ASTM SPEC A475	FLORIDA WIRE & CBL FLORIDA WIRE & CBL		WIRE 5/16 EHS 7STR GUY 250' COILS-10/CYL 5/16 GUY WIRE GRAYBAR
	25 2790	WIRE 7/16 UTILITIES GRADE CLASS "A" GALVANIZED PREFORMED STRAND PER ASTM SPEC A475			WIRE 7/16GALV7STR MI G 7/16 GUY WIRE GRAYBAR
	27 0310	BOLT CARRIAGE GALVANIZED, WITH SQUARE NUT, PER ANSI C135.1-1979 3/8 X 5 INCH	COOPER POWER JOSLYN A B CHANCE		B CARR GALV 3/8 X 5, DF1CS J8635 8635
	27 0404	BOLT EYE GALVANIZED ROLLED THREADS WITH SQUARE NUT PER EEI STANDARD TDJ-1 3/4 X 10 IN	JOSLYN A B CHANCE HUBBELL		B EYE GALV 3/4 X 10 J9510 29980 29980
	27 0406	BOLT EYE GALVANIZED ROLLED THREADS WITH SQUARE NUT PER EEI STANDARD TDJ-1 3/4 X 12 IN	JOSLYN A B CHANCE HUBBELL		B EYE GALV 3/4 X 12 J9512 29982 29982
	27 0432	BOLT THINBLE EYE GALVANIZED ROLLED THREADS WITH SQUARE NUT PER EEI STANDARD TDJ-1 3/4 X 12 IN	JOSLYN A B CHANCE		B GUY EYE GALV 3/4 X 12 J8062 5612
	27 0452	BOLT EYE GALVANIZED ROLLED THREADS WITH SQUARE NUT PER EEI STANDARD TDJ-1 5/8 X 8 IN	COOPER POWER JOSLYN A B CHANCE		B EYE GALV 5/8 X 8 DF2E8 J9408 29958
	27 0454	BOLT EYE GALVANIZED ROLLED THREADS WITH SQUARE NUT PER EEI STANDARD TDJ-1 5/8 X 10 IN	COOPER POWER JOSLYN A B CHANCE		B EYE GALV 5/8 X 10 DF2E10 J9410 29960

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
27 0456	BOLT EYE GALVANIZED ROLLED THREADS WITH SQUARE NUT PER EEI STANDARD TOJ-1 5/8 X 12 IN	COOPER POWER JOSLYN A B CHANCE HUBBELL	B EYE GALV 5/8 X 12 DF2E12 J9412 29962 29962
27 0482	BOLT THIMBLE EYE GALVANIZED ROLLED THREADS WITH SQUARE NUT PER EEI STANDARD TOJ-1 5/8 X 8 IN	COOPER POWER JOSLYN	B GUY EYE GALV 5/8 X 8 DG1F8 JB0S0
27 0484	BOLT THIMBLE EYE GALVANIZED ROLLED THREADS WITH SQUARE NUT PER EEI STANDARD TOJ-1 5/8 X 10 IN	COOPER POWER JOSLYN A B CHANCE	B GUY EYE GALV 5/8 X 10 DG1F10 JB0S1 S510
27 0486	BOLT THIMBLE EYE GALVANIZED ROLLED THREADS WITH SQUARE NUT PER EEI STANDARD TOJ-1 5/8 X 12 IN	COOPER POWER JOSLYN A B CHANCE	B GUY EYE GALV 5/8 X 12 DG1F12 JB0S2 S512
27 0950	BOLT, MACHINE, SERIES 18-8 STAINLESS STEEL HEX HEAD 3/8 INCH - 16 THREAD X 3/4 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 100 TAPED BOXES	MESCO	B MACH SS 3/8-16 X 3/4 3/8-16X3/4 SS BOLT
27 0960	BOLT, MACHINE, SERIES 18-8 STAINLESS STEEL HEX HEAD 3/8 INCH - 16 THREAD X 1 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 100 TAPED BOXES	MESCO	B MACH SS 3/8-16 X 1 3/8-16X1 SS BOLT
27 1500	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 3/4 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	MESCO	B MACH SS 1/2-13 X 3/4 1/2-13X3/4 SS BOLT
27 1510	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 7/8 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	MESCO	B MACH SS 1/2-13 X 7/8 1/2-13X7/8 SS BOLT

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
27 1530	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 1 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	MESCO	B MACH SS 1/2-13 X 1 1/2-13X1 SS BOLT
27 1540	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 1 1/4 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	MESCO	B MACH SS 1/2-13X1 1/4 1/2-13X1-1/4 SS BOLT
27 1550	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 1 1/2 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	MESCO	B MACH SS 1/2-13X 1 1/2 1/2-13X1-1/2 SS BOLT
27 1560	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 1 3/4 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	MESCO	B MACH SS 1/2-13X 1 3/4 1/2-13X1-3/4 SS BOLT
27 1570	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 2 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	MESCO	B MACH SS 1/2-13 X 2 1/2-13X2 SS BOLT
27 1580	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 2 1/4 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	MESCO	B MACH SS 1/2-13X 2 1/4 1/2-13X2-1/4 SS BOLT

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
27 1590	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 2 1/2 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	NESCO	8 MACH SS 1/2-13X 2 1/2 1/2-13X2-1/2 SS BOLT
27 1600	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 2 3/4 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	NESCO	8 MACH SS 1/2-13X 2 3/4 2-3/4 SS BOLT
27 1610	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 3 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 50 TAPED BOXES	NESCO	8 MACH SS 1/2-13 X 3 1/2-13X3 SS BOLT
27 1620	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 3 1/4 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 25 TAPED BOXES	NESCO	8 MACH SS 1/2-13X 3 1/4 1/2-13X3-1/4 SS BOLT
27 1630	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 3 1/2 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 25 TAPED BOXES	NESCO	8 MACH SS 1/2-13X 3 1/2 1/2-13X3-1/2 SS BOLT
27 1640	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 4 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 25 TAPED BOXES	NESCO	8 MACH SS 1/2-13 X 4 1/2-13X4 SS BOLT

H8A108-01

CENTRAL MAINE POWER COMPANY
CONTRACTOR ITEM CATALOGPAGE: 35
DATE: 11/04/03

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
27 1650	BOLT, MACHINE, SERIES 316 STAINLESS STEEL HEX HEAD 1/2 INCH - 13 THREAD X 4 1/2 INCH SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE STANDARD PACKAGE OF 25 TAPED BOXES	NESCO	8 MACH SS 1/2-13X 4 1/2 1/2-13X4-1/2 SS BOLT
27 2052	BOLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1- 1979, 1/2 X 6 IN	COOPER POWER JOSLYN A B CHANCE	8 MACH SQ GALV 1/2 X 6 DF286 J8706 8706
27 2053	BOLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1- 1979, 1/2 X 7 IN	COOPER POWER JOSLYN A B CHANCE	8 MACH SQ GALV 1/2 X 7 DF287 J8707 8707
27 2056	BOLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1- 1979, 1/2 X 10 IN	COOPER POWER JOSLYN A B CHANCE	8 MACH SQ GALV 1/2 X 10 DF2810 J8710 8710
27 2081	BOLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1- 1979, 5/8 X 7 INCH	COOPER POWER JOSLYN A B CHANCE HUBBELL	8 MACH SQ GALV 5/8 X 7 DF387 J8807 8807 8807
27 2082	BOLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1- 1979, 5/8 X 8 IN	COOPER POWER JOSLYN A B CHANCE	8 MACH SQ GALV 5/8 X 8 DF388 J8808 8808
27 2084	BOLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1- 1979, 5/8 X 10 IN	COOPER POWER JOSLYN A B CHANCE	8 MACH SQ GALV 5/8 X 10 DF3810 J8810 8810
27 2086	BOLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1- 1979, 5/8 X 12 IN	COOPER POWER JOSLYN A B CHANCE	8 MACH SQ GALV 5/8 X 12 DF3812 J8812 8812
27 2088	BOLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1- 1979, 5/8 X 14 IN	COOPER POWER JOSLYN A B CHANCE	8 MACH SQ GALV 5/8 X 14 DF3814 J8814 8814

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
27 2140	8OLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1-1979, 3/4 X 8 IN	COOPER POWER JOSLYN A 8 CHANCE	8 MACH SQ GALV 3/4 X 8 OF488 J8908 8908
27 2142	8OLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1-1979, 3/4 X 10 IN	COOPER POWER JOSLYN	8 MACH SQ GALV 3/4 X 10 DF4810 J8910
27 2144	8OLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1-1979, 3/4 X 12 IN	COOPER POWER JOSLYN JOSLYN	8 MACH SQ GALV 3/4 X 12 DF4812 COOPER PNR J8912 J8912 JOSLYN
27 2146	8OLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1-1979, 3/4 X 14 IN	COOPER POWER JOSLYN	8 MACH SQ GALV 3/4 X 14 OF4814 J8914
27 2150	8OLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1-1979, 3/4 X 16 IN	COOPER POWER JOSLYN	8 MACH SQ GALV 3/4 X 16 OF4816 J8916
27 2154	8OLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1-1979, 3/4 X 18 IN	COOPER POWER JOSLYN	8 MACH SQ GALV 3/4 X 18 OF4818 J8918
27 2158	8OLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1-1979, 3/4 X 20 IN	COOPER POWER JOSLYN	8 MACH SQ GALV 3/4 X 20 OF4820 J8920
27 2162	8OLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1-1979, 3/4 X 22 IN	COOPER POWER JOSLYN	8 MACH SQ GALV 3/4 X 22 DF4822 J8922
27 2166	8OLT MACHINE GALVANIZED, SQUARE HEAD, WITH SQUARE NUT, PER ANSI C135.1-1979, 3/4 X 24 IN	COOPER POWER JOSLYN	8 MACH SQ GALV 3/4 X 24 DF4824 J8924
27 2172	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 5/8 X 16 IN	COOPER POWER JOSLYN A 8 CHANCE HUBBELL	8 SPACE GALV 5/8 X 16 OF2016 J8866 8866 8866
27 2173	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 5/8 X 18 IN	COOPER POWER JOSLYN A 8 CHANCE	8 SPACE GALV 5/8 X 18 DF2018 J8868 8868

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
27 2174	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 5/8 X 20 IN	COOPER POWER JOSLYN A 8 CHANCE	8 SPACE GALV 5/8 X 20 DF2020 J8870 8870
27 2175	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 5/8 X 22 IN	COOPER POWER JOSLYN A 8 CHANCE HUBBELL	8 SPACE GALV 5/8 X 22 DF2022 J8872 8872 8872
27 2176	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 5/8 X 24 IN	COOPER POWER JOSLYN A 8 CHANCE	8 SPACE GALV 5/8 X 24 DF2024 J8874 8874
27 2178	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 5/8 X 26 INCH	COOPER POWER JOSLYN A 8 CHANCE HUBBELL	8 SPACE GALV 5/8 X 26 DF2026 J8876 8876 8876
27 2222	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 3/4 X 16 IN	COOPER POWER JOSLYN	8 SPACE GALV 3/4 X 16 QF3016 J8886
27 2223	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 3/4 X 18 IN	COOPER POWER JOSLYN	8 SPACE GALV 3/4 X 18 QF3018 J8888
27 2224	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 3/4 X 20 IN	COOPER POWER JOSLYN	8 SPACE GALV 3/4 X 20 DF3020 J8890 JOSLYN
27 2225	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 3/4 X 22 IN	COOPER POWER JOSLYN	8 SPACE GALV 3/4 X 22 OF3022 J8892
27 2226	8OLT DOUBLE ARM GALVANIZED, WITH SQUARE NUTS, PER ANSI C135.1-1979 3/4 X 24 IN	COOPER POWER JOSLYN	8 SPACE GALV 3/4 X 24 DF3024 J8894
27 2228	8OLT DOUBLE ARM GALVANIZED, WITH FOUR SQUARE NUTS, PER ANSI C135.1-1979 3/4 X 26 INCH	JOSLYN A 8 CHANCE	8 SPACE GALV 3/4 X 26 J8896 8896
27 2229	8OLT DOUBLE ARM GALVANIZED, WITH FOUR SQUARE NUTS, PER ANSI C135.1-1979 3/4 X 28 INCH	COOPER POWER JOSLYN	8 SPACE GALV 3/4 X 28 DF3028 J8897

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
27 2540	BOLT LAG FETTER DRIVE PILOT POINT GALVANIZED ROLLED THREADS PER EEI STANDARD TOJ-3 1/2 X 4 INCH	COOPER POWER JOSLYN	8 LAG GALV FET 1/2 X 4 DF9L4 J8754P
27 2550	BOLT TOE LAG FETTER DRIVE REGULAR POINT 3/8 X 2 1/2 INCH	COOPER POWER JOSLYN	8 TOE LAG 3/8 X 2 1/2 DF6L250 J8742-1/2
27 2555	BOLT LAG HASHER HEAD GIMLET POINT FOR PLASTIC U GUARD 1/4 X 2 INCH	JOSLYN	8 LAG 1/4X2 F/U GUARD J26486.1
27 2560	BOLT U MESS INSIDE ANGLE FOR 8A4-1S USED WITH CLAMP S/C 11-1330	HENDRIX	8 U MESS I/SO ANG F/8A4 U8
27 2630	BRACE ALLEY ARM WOOD 8FT 3IN	ALUMA-FORM	BRACE ALLEY WD 8FT 3IN RAA8-99
27 2670	BRACE XARM FLAT 28 INCH	JOSLYN ALUMA-FORM	BRACE XARM 28 IN J22984 RAF-626
27 2700	BRACKET ALLEY ARM 3 PHASE FIBERGLASS WITH ALLEY ARM BRACE USE WITH POLE EYE PLATE (S/C 25-1800)	CONTINENTAL ELECTRI	8KALLEYARM3PHFIBERGLAS CED-3026
27 2850	CLEVIS THIMBLE EYE FORGED GALVANIZED 5/8 IN GROOVE 5/8 PIN	JOSLYN	CLV THIMBLE 5/8 PIN JO 555
27 2904	CLEVIS THIMBLE WITH 5/8 INCH BOLT, RATED 20000 LB	CONTINENTAL ELECTRI BETHEA FLAGG	CLEVIS THIMBLE 20000 LB CT-88 FSA-88-5 PA-271
27 3185	GAIN CROSSARM WITHOUT TEEYM ON CURVED SURFACE FOR 8 FOOT CROSSARM ONLY.	MACLEAN	GAIN XARM 8 FT. CAG-44-5
27 3280	GUARD POLE HUB 18" HIGH X 14" WIDE STEEL		GUARD HUB
27 3290	HOOK SERVICE GALVANIZED DRIVE HEAD 7/16 X 4 3/4 IN	A & CHANCE JOSLYN	HOOK GALV DRIVE HEAD C20S-0190 J3316P
27 3300	HOOK SERVICE HOUSE 3/8 X 3 1/2 SHANK HOT DIP GALVANIZED	HU88BELL	HOOK GALV SCREM TYPE 8777
27 3302	HOOK SERVICE HOUSE 3/8 X 6 INCH SHANK HOT DIP GALVANIZED (NO SUPPLIERS AVAILABLE)	A & CHANCE	HOOK SERVICE 3/8 X 6 X8777 A & CHANCE

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
27 3400	LINK CONNECTING CLEVIS EYE 14 INCH WITH 3/4 INCH CLEVIS OPENING, 5/8 INCH ROUND GALVANIZED COTTER BOLT, BRASS OR STAINLESS STEEL HUMPED COTTER KEY (6,000 LB. MINIMUM ULTIMATE STRENGTH)	JOSLYN	LINK CONN 3/4 X 14 IN J6658
27 3410	LINK CONNECTING FIGURE 8	LINE MARONARE CO LINDSEY	LINK CONNECTING FIG 8 FL8-30 3414
27 3430	NUT EYE ROUND 5/8 TAP	JOSLYN A & CHANCE	NUT EYE ROUND 5/8 TAP J1092 6502
27 3440	NUT EYE ROUND 3/4 TAP	JOSLYN A & CHANCE HU88BELL	NUT EYE ROUND 3/4 TAP J1093 6503 6503
27 3450	NUT EYE THIMBLE 5/8 TAP	JOSLYN A & CHANCE	NUT EYE THIMBLE 5/8 TAP J6510 6510
27 3460	NUT EYE THIMBLE 3/4 TAP	JOSLYN A & CHANCE HU88BELL	NUT EYE THIMBLE 3/4 TAP J6511 6511 6511
27 3640	NUT, HEX, SERIES 18-8 STAINLESS STEEL 1/4 INCH THREAD SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 200) (TAPED BOXES)	WESCO	NUT HEX SS 1/4-20 1/4-20 SS HEX NUT
27 3650	NUT, HEX, SERIES 18-8 STAINLESS STEEL 3/8 INCH - 16 THREAD SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 200) (TAPED BOXES)	WESCO	NUT HEX SS 3/8-16 3/8-16 SS HEX NUT
27 3660	NUT, HEX, SERIES 316 STAINLESS STEEL 1/2 INCH - 13 THREAD SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 200) (TAPED BOXES)	WESCO	NUT HEX SS 1/2-13 1/2-13 SS HEX NUT

14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	27 3850	PIN STEEL 5/8 X 2 X 12 1/2 INCH	COOPER POWER JOSLYN A & CHANCE		PIN STL 5/8 X 12 1/2 OP2535 J2072 885
	27 3860	PIN STEEL 5/8X2X8 INCH LAG	COOPER POWER JOSLYN A & CHANCE HUBBELL		PIN STL 5/8 X 8 IN LAG DP112 J231 888 888
	27 3870	PIN STEEL 5/8 INCH FOR ANGLES	JOSLYN		PIN STL 5/8 IN F/ANGLES J6262
	27 3874	PIN ANGLE BRACKET 1 INCH LEAD THREAD			PIN ANGLE BRACKET 1 IN
	27 3900	PIN STEEL F/27KV INS TREE WIRE	CONTINENTAL ELECTRI JOSLYN BARRON BETHA FLAGG		AP8-8 AP8-8 P8A-84-1 P402
	27 3980	PIN STEEL SHORT SHANKED 3/4 INCH	COOPER POWER JOSLYN		PIN STL 27KV TREE WIRE DP14T1 J246262
	27 4044	PLATE POLE DOUBLE EYE	HENORIX		PIN SHORT SHANK 3/4 IN SSP-2
	27 4170	POLE TOP PIN 24 X 1 3/8 INCHES & 5 INCH HOLE SPACING, GALVANIZED STEEL	BETHA JOSLYN JOSLYN		PLATE POLE DOUBLE EYE PE-8-707 PX-42 PX42
	27 4180	CLAMP DUCTILE IRON AERIAL CABLE WITH CLAMPING RANGE OF .375 - .828	COOPER POWER HUGHES BROS INC		POLE TOP PIN 24X1 3/8INCH OP24PS 2770-H24-CS-130
	27 4190	POLE TOP PIN 30 INCH FIBERGLASS	MACLEAN		CLAMP AERIAL CABLE H8XN-82
	27 4214	POLE TOP EXTENSION 30 INCH STEEL CHANNEL FOR SPACER CABLE	MACLEAN		POLE TOP PIN 30 IN FG G1HAR130AS1
	27 4218	POLE TOP EXTENSION 60 INCH FIBERGLASS (PER CMP SPECIFICATION OF 06/28/93)	HENORIX		POLE TOP EXT 30IN STEEL XPT-30
			ADVANCED MTL INC NIGNLINE		POLE TOP EXT 60IN FIBER AN-60A-CNP HL-44A SPEC #86

60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	27 4220	POLE TOP EXTENSION 60 INCH FOR SPACER CABLE	HENORIX		POLE TOP EXT F/SPACER C XPT-60
	27 4225	POLE TOP EXTENSION 75 INCH FOR SPACER CABLE	HENORIX		POLE TOP EXT SPACER 75 IN XPT-75
	27 4230	BRACE PUSH ACCESS CONN ANGLE SPAR	FLAGG CONTINENTAL ELECTRI		BRACE PUSH ANGLE SPAR PAX138 USA-8040-6
	27 4320	SNACKLE 1/2IN WITH 5/8 PIN GALV	JOSLYN		SNACKLE 1/2 IN W/5/8PIN J2742
	27 4400	STAPLE COPPER COATED 1 1/2X5/16X0.144 IN (USE S/C 27-4402)	A & CHANCE JOSLYN		STAPLE CN F/4 GRO WIRE C205-0225 A& CHANCE J6494 JOSLYN
	27 4402	STAPLES, GALVANIZED 1 1/2 X 3/8 X 0.148 REPLACES S/C 27-4400	A & CHANCE ELECTRICAL HTLS CO JOSLYN		STAPLES GALV F/4 GRO NR C205-0214 01.5X3/8G J172
	27 4405	STAPLE COPPER COATED 2 X 1/2 X .162 INCH (USE S/C 27-4410)	ELECTRICAL HTLS CO JOSLYN		STAPLE CU COATED 2X1/2 C2-.50P ELEC HAT'LS J6496 JOSLYN
	27 4410	STAPLE GALVANIZED 2X1/2X.162 IN	A & CHANCE LARSON		STAPLE F/ 1/2IN HOLDING C205-0216 2916
	27 4420	STEP POLE STL HOOK HEAD 5/8 X 10	JOSLYN		STEP POLE 5/8 X 10 J1118
	27 4560	WASHER LOCK SPRING GALVANIZED 5/8 STANDARD PACKAGE OF 200 TAPED BOXES	HARREN FST JOSLYN		NSH LOCK RD GALV 5/8 J139
	27 4570	WASHER LOCK SPRING GALVANIZED 3/4	A & CHANCE		NSH LOCK RD GALV 3/4 4037 CHANCE
	27 4580	WASHER LOCK DOUBLE COIL SPRING GALVANIZE FOR 3/8IN BOLT	A & CHANCE GREAVES JOSLYN SHAKEPROOF		NSH 2 TURN SPR GALV 3/8 C205-0188 GLN60C J175 3/8 141X894 OC

LINE	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
27 4590	WASHER LOCK DOUBLE COIL SPRING GALVANIZE FOR 1/2 IN BOLT	A B CHANCE GREAVES JOSLYN SHAKEPROOF		NSH 2 TURN SPR GALV 1/2 C205-0185 GLW 30C J176 1/2 17IX125 OC
27 4600	WASHER LOCK DOUBLE COIL SPRING GALVANIZE FOR 5/8 IN BOLT	A B CHANCE GREAVES JOSLYN SHAKEPROOF		NSH 2 TURN SPR GALV 5/8 C205-0186 GLW10C J177 5/8 203X156
27 4610	WASHER LOCK DOUBLE COIL SPRING GALVANIZE FOR 3/4 IN BOLT	A B CHANCE HUBBELL GREAVES JOSLYN		NSH 2 TURN SPR GALV 3/4 C205-0187 C205-0187 G0C54 J178
27 4612	WASHER LOCK DOUBLE COIL SPRING GALVANIZE FOR 7/8 IN BOLT	EATON HUGHES BROS INC		NSH 2 TURN SPR GALV 7/8 SLW2-80
27 4640	WASHER, SPLIT LOCK, SERIES 18-8 STAINLESS STEEL, 1/4 INCH IO, 7/16 INCH OD SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 100) TAPED BOXES	MESCO		WASHER LOCK SS 1/4 1/4 SS SPLIT LOCK
27 4650	WASHER, SPLIT LOCK, SERIES 18-8 STAINLESS STEEL, 5/16 INCH IO, 11/16 INCH OD SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 100) TAPED BOXES	MESCO		WASHER LOCK SS 5/16 5/16 SS SPLIT LOCK
27 4661	WASHER, SPLIT LOCK, SERIES 18-8 STAINLESS STEEL, 3/8 INCH IO, 5/8 INCH OD, SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 200) (TAPED BOXES)	MESCO		WASHER LOCK SS 3/8 3/8 SS SPLIT LOCK

LINE	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
27 4671	WASHER, SPLIT LOCK, SERIES 18-8 STAINLESS STEEL, 1/2 INCH IO, 7/8 INCH OD SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 200) (TAPED BOXES)	MESCO		WASHER LOCK SS 1/2 1/2 SS SPLIT LOCK
27 4678	WASHER, ROUND BELLEVILLE SPRING, TYPE 301 STAINLESS STEEL, FULL HARD, 1.125 OD, 0.515 IO, 0.125 THICKNESS 6000LBS TO FLATTEN. USED WITH 1/2 INCH 316 STAINLESS STEEL HARDWARE FOR ELECTRICAL CONNECTIONS. SHIPMENT TO INCLUDE CERTIFICATION OF MATERIAL. FURNISH IN LOTS OF 50 IN TAPED BOXES.	SOLON MFG		WASHER ROUND BELLEVILLE 818-125-301
27 4770	WASHER, FLAT, SERIES 18-8 STAINLESS STEEL, 1/4 INCH IO, 11/16 INCH OD STANDARD PACKAGE OF 200 ZIP-LOCKED BAG	MESCO		WASHER FLAT RD SS 1/4 1/4 SS RD FLAT WASH
27 4780	WASHER, FLAT, SERIES 18-8 STAINLESS STEEL, 3/8 INCH IO, 7/8 INCH OD SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 200) (TAPED BOXES)	MESCO		WASHER FLAT RD SS 3/8 3/8 SS RD FLAT WASH
27 4790	WASHER, FLAT, SERIES 316 STAINLESS STEEL, 1/2 INCH IO, 1 1/4 INCH OD SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 200) (TAPED BOXES)	GRAYBAR ELECTRIC CO INC MESCO		WASHER FLAT RD SS 1/2 SSAE12-316 1/2 SS RD FLAT WASH
27 4795	WASHER, FLAT, SERIES 18-8 STAINLESS STEEL, 5/8 INCH IO, 1 1/2 INCH OD SHIPMENT TO INCLUDE WRITTEN CERTIFICATION OF STAINLESS STEEL TYPE (STANDARD PACKAGE OF 100) (TAPED BOXES)	MESCO		WASHER FLAT RD SS 5/8 5/8 SS RD FLAT WASH
27 4810	WASHER SQUARE FLAT GALVANIZED PER EETI STANDARD TDJ-10 2 1/4X2 1/4X3/16, 13/16 HOLE	HUBBARD JOSLYN A B CHANCE		NSHFLT GALVSQ2 1/4X3/16 H7814 J1076 6814

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

LINE	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
27 4820	WASHER SQUARE CURVED GALVANIZED STANDARD TDJ - 10 2 1/2 X 2 1/2 X 3/16 11/16 HOLE	JOSLYN A & CHANCE HUBBELL	MSH CURV GALV 2 1/2	J6822 6822 6822
27 4821	WASHER SQUARE CURVED GALVANIZED PER EEI STANDARD TOJ-10 3X3X1/4,13/16 HOLE	JOSLYN HUBBELL A & CHANCE	MSH CURV GALV 3X3X1/4	J6823 1/2/6822 6822 1/2
27 4831	WASHER SQUARE FLAT GALVANIZED PER EEI STANDARD TDJ-10 3 X 3 X 1/4, 13/16 HOLE	COOPER POWER JOSLYN A & CHANCE	MSH FLAT GALV 3X3X1/4	DF2W7 J1079 6817
27 4840	WASHER SQUARE FLAT GALVANIZED PER EEI STANDARD TDJ-10 4 X 4 X 3/16, 7/8 HOLE	JOSLYN A & CHANCE HUBBELL	MSH FLAT GALV 4X4X3/16	J1080 6818 6818
27 4850	WASHER OBLONG CURVED GALVANIZED WITH BOSS 3X4, 7/8 HOLE	FLAGG	MSH CURV GALV 3X4	P-120
31 0323	INSULATOR PIN TYPE 15 KV PORCELAIN	FLORIDA WIRE & CBL COOPER POWER PORCELAIN PRO VICTOR	INS PIN TYPE 15KV	FH2064R HP2108 366S 6R
31 0352	INSULATOR PIN TYPE FOR TREE WIRE 15 KV	HENDRIX	INS PIN TYPE TREE 15KV	HPI-15F
31 0356	INSULATOR POLYETHYLENE VICE TOP PIN TYPE 15KV - FOR TREE WIRE	HENDRIX	INS PIN VICE 15KV TREE	HPI-15VTP
31 0419	INSULATOR PIN TYPE 27 KV ANSI CLASS 55-6	COOPER POWER PORCELAIN PRO VICTOR	INS PIN TYPE 27KV	HP2308 386ST 386ST
31 0456	INSULATOR POLYETHYLENE VICE TOP PIN TYPE 35KV - FOR TREE WIRE	HENDRIX	INS PIN VICE 35KV TREE	HPI-35VTP
31 0468	INSULATOR PIN TYPE F/27KV TREE WIRE	HENDRIX HENDRIX	INS PIN TYPE TREE 27KV	HPI-35 HPI-35 HENDRIX

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

LINE	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
31 0640	INSULATOR 15KV, ONE PIECE, DEADEND/SUSPENSION, SILICON RUBBER HOUSING, 7500LBS (RTL) CLEVIS/TONGUE END FITTINGS	K-LINE SEDIWER	INSULATOR 15KV COMP D/E	KL-15ASCTN 001-11-70-15-CT(SIL)
31 0652	INSULATOR SUSPENSION 6 INCH DISC GRAY PORCELAIN ANSI CLASS 52-1 WITH 5/8 INCH ROUND COTTER BOLT SQUARE CUT BRASS OR STAINLESS STEEL HUMPED COTTER KEY AND ANTI ROTATION LUGS	VICTOR PORCELAIN PRO	INS SUSP 6 IN DISC OR 5	804 86012
31 0700	INSULATOR 35KV, ONE PIECE, DEADEND/SUSPENSION, SILICON RUBBER HOUSING, 10,000LBS(RTL), CLEVIS/TONGUE END FITTINGS	K-LINE	INSULATOR 35KV COMP D/E	KL-35SCTM
31 0732	INSULATOR SUSPENSION RATED 20000 LBS H&E STRENGTH W/ 10 IN DISC, 5.75 IN SPACING AND DARK BROWN GLAZE COLOR, IN ACCORDANCE WITH ANSI CLASS 52.3	PORCELAIN PRO LAPP	INS SUS 10 IN 20H BROWN	81022B 8200
31 1982	INSULATOR STATION POST 34KV 200KV 8IL TR 210 STANDARD STRENGTH NON STACKING GRAY 7.5 INCH DIAMETER	MCK-LOCKE VICTOR NEWELL LAPP	INS STA POST 34KV GRAY	PS02010 1753 231004 9785-70
31 2878	GUARD WILDLIFE FOR 15 KV AND 34.5 KV RECLOSER BUSHINGS (LARGE SKIRT DIAMETER- "PR", "PRM", "RVE" & "NVE" RECLOSERS) AND LARGE DIAMETER PORCELAIN 34.5KV ARRESTORS	FARGO	WILDLIFE GUARD LARGE	GS 567
31 2880	BIRDOGUARD FOR 5 AND 15KV TRANSFORMER AND RECLOSER BUSHINGS. FITS BUSHINGS WITH A MAX. DIAMETER OF 4.75 INCHES.	FARGO RELIABLE ELEC	BIRDOGUARD 5&15KV BUSH	GS560 S635
31 2881	BIRDOGUARD HOT STICK APPLICABLE 5-35KV FITS BUSHINGS WITH A MAX. DIAMETER OF 4 1/4 INCHES	FARGO	BIRDOGUARD HOT ST 5-35KV	GS-565
31 2882	BIRDOGUARD FOR NON-ENERGIZED INSTALLATION ONLY. FITS BUSHINGS WITH A MAX. DIAMETER OF 4 1/2 INCHES	ELECTRICAL MTLs CO	BIRDOGUARD NON-ENERGIZED	WLP-1
36 0270	STEEL, SHAPES, GALV		STL SHP GALV	

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
37 2090	TRANSPONDER, LOAD SURVEY, PULSE OPERATED (MCT-240P), 12.5 KHZ (DISTRIBUTION CARRIER SYSTEM)	ABB	X-PONDER MCT-240P PULSE 5568C06G04
37 2091	TRANSPONDER, METERING AND CONTROL MCT-250, 12.5KHZ (DISTRIBUTION CARRIER) (DISTRIBUTION CARRIER SYSTEM)	ABB	X-PONDER MCT-250P PULSE 5568C06G11
37 2092	TRANSPONDER, LOAD SURVEY AND TWO CONTROL RELAYS, PULSE OPERATED (MCT-248P) 12.5 KHZ (DISTRIBUTION CARRIER SYSTEM)	ABB	X-PONDER MCT-248P PULSE 5568C06G12
37 2094	TRANSPONDER, THREE EXTERNAL PULSE INPUTS, TWO STATUS INPUTS, & TWO CONTROL OUTPUTS (NCT318SND) 12.5 KHZ (DISTRIBUTION LINE CARRIER SYSTEM) (TWO-WAY DEVICE) USES: CAP BANK CONTROL & MONITORING AND VOLTAGE REGULATION CONTROL.	ABB	X-PONDER NCT318SND PULSE 5025219G07 (NCT318SND)
37 2098	TRANSPONDER, "A" BASE WHICH IS SURFACE MOUNTED 240 VAC, PULSE INITIATOR INPUT FOR BASIC METERING, DISTRIBUTION CARRIER TRANSPONDER, 12.5 KHZ FREQUENCY, USED TO MONITOR REclosERS		X-PONDER NCT210A PULSE
49 0060	ARRESTER LIGHTNING DISTRIBUTION 10KV WITH ISOLATOR AND ANIMAL PROTECTION	COOPER POWER JOSLYN OHIO BRASS	ARR DIST 10KV UHS100S0A1A1A1A ZHP010-0000100 217609-8790
49 0120	ARRESTER, DISTRIBUTION CLASS, 27KV DUTY CYCLE, 22KV MCOV, POLYMER HOUSED WITH ISOLATOR	COOPER POWER JOSLYN	ARRESTER, DISTRIBUTION UNS27110B1A1A1A B154C0027J005
49 0130	ARRESTOR LIGHTNING 27KV DISTRIBUTION CUBICLE MOUNTING W/O ISOLATOR FOR USE IN LIVE FRONT PADMOUNT TRANSFORMERS INCLUDES MOUNTING BRACKET	JOSLYN OHIO BRASS	ARR DIST 27KV CUB MTG JB154C0027J179 213622-7232

MBA108-01

CENTRAL MAINE POWER COMPANY
CONTRACTOR ITEM CATALOGPAGE: 47
DATE: 11/04/03

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
49 1400	BRACKET LIGHTNING ARRESTER MOUNTING FOR 3 ARRESTERS. USE ON RECLOSER HANGERS S/C 52-0860, 52-0920, OR 52-0930 USE STANDARD ARRESTERS LESS CROSSARM BRACKET	COOPER POWER	BKT ARR 3UNIT F/RECLOSR KA126H3
49 1430	GROUND STRAP FOR USE WHEN MOUNTING LA'S ON TRANSFORMERS - 12 3/4 INCH LONG	OHIO BRASS	GROUND STRAP FOR LA'S B9646-4010
49 1700	CUTOUT LOADBREAK 100A 7.2/12.47KV	ABB	C/O L/BK 100A 7/12KV 1C08030A17 B434C94A17
49 1701	EXPULSION CAP FOR ALL MAKES OF 50 AMP AND 100 AMP DOUBLE VENTING CUTOUTS	UTILITY SOLUTIONS ABB	EXP CAP 50&100A ALL C/O USCO-62-03 12A00128H01
49 1720	CUTOUT LOADBREAK 200A 7.2/12.47KV	ABB	C/O L/BK 200A 7/12KV 1C08030A18 B434C94A18
49 1722	SOLID FUSEHOLDER CAP FOR S/C 49-1700	ABB	SOLID CAP FOR S/C491700 162A775H01
49 1725	SOLID FUSEHOLDER CAP FOR S/C 49-1720	ABB	SOLID CAP FOR S/C491720 162A775H03
49 1724	SOLID FUSEHOLDER CAP FOR S/C 49-1800	ABB	SOLID CAP FOR S/C491800 3A31186H01
49 1760	CUTOUT LOADBREAK 100AMP 20/34.5KV	ABB	C/O L/BK 100A 20/35KV 279C790A49
49 1800	CUTOUT NON-LOADBREAK 100A 15KV	PLH MFG CO ABB	C/O FUSE 100A 15KV SIL-115-195E X12CHNA11
49 1844	FUSE CURRENT LIMITING 7200/12470 BACK UP USE WITH 50KVA AND SMALLER PROTECTED TRANSFORMER OR 8T OR SMALLER FUSE	G E CO	FUSE CL 7/12KV BT MAX 9F59UBC121
49 1845	FUSE CURRENT LIMITING 7200/12470 BACK UP USE WITH 100KVA PROTECTED TRANSFORMER OR 15T OR SMALLER FUSE	G E CO	FUSE CL 7/12KV 15T MAX 9F59UBC122
49 1848	FUSE CURRENT LIMITING 20/35KV BACK UP USE WITH PROTECTED TRANSFORMERS OR 8T MAXIMUM SIZE FUSE	A B CHANCE G E CO	FUSE CL 20/35KV 8T MAX C70L-13KAED 9F59UBE121

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
49 1900	CUTOUT LOADBREAK SOLID BLADE 300AMP 7.2/12.47KV	ABB ABB ABB	C/O L-8KR SOL 8LD 12.47 IC08030A19 IC08030A19 8434C94A14
49 1960	CUTOUT LOADBREAK WITH SOLID BLADE 300AMP 20/34.5KV	ABB ABB	C/O 300A20/35 L/8K SOL IC08030A21 279C789A45
49 1970	DISCONNECT 15KV IN-LINE FOR USE ON 1/0 AAAC WIRE CONNECTORS INCLUDED USE YELLOW AMPACT CARTRIDGE TO INSTALL	AMP	DISCONNECT 15KV 1/0 1/L 109203-8
49 1975	DISCONNECT 15V IN-LINE FOR USE ON 336 AAAC WIRE CONNECTORS INCLUDED USE YELLOW AMPACT CARTRIDGE TO INSTALL	AMP	DISCONNECT 15KV IN-LINE 109203-2
49 1980	DISCONNECT 35KV IN-LINE FOR USE ON 336 AAAC WIRE CONNECTORS INCLUDED USE YELLOW AMPACT CARTRIDGE TO INSTALL	AMP	DISCONNECT 35KV IN-LINE 109202-2
49 1985	DISCONNECT 35KV IN-LINE FOR USE ON 1/0 ALUMINUM AND ACSR	AMP	DISC 35KV IN-LINE 1/0 1-109202-0
49 2560	FUSE MOUNTING, 34.5KV, SMO-20, 200E, VERTICAL OFFSET, TR-210 GRAY STATION POST INSULATORS, TERMINAL PAGS TO BE TINNED, (STANDARD CHP BASE, 2 1/2" X 30" MOUNTING HOLES)	S & C ELECTRIC	FUSE PWR MTG F/SMD-20 192504-S109
49 4826	FUSE LINK 3 AMP 4-12 KV	KEARNEY	FUSE LINK 3 AMP 4-12 KV 51003
49 4828	FUSE LINK 3 AMP 34KV	KEARNEY	FUSE LINK 3 AMP 34KV 51003-53
49 4830	FUSE LINK 6AMP 4-12KV	KEARNEY	FUSE LINK 6A 4-12KV 51006
49 4832	FUSE LINK 6 AMPERE 20/35KV	KEARNEY	FUSE LINK 6A 20/35KV 51006-53
49 4845	FUSE LINK 10AMP 4-12KV	KEARNEY	FUSE LINK 10A 4-12KV 51010
49 4847	FUSE LINK 10 AMPERE 20/35KV	KEARNEY	FUSE LINK 10A 20/35KV 51010-53

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
49 4860	FUSE LINK 15AMP 4-12KV	KEARNEY	FUSE LINK 15A 4-12KV 51015
49 4862	FUSE LINK 15 AMPERE 20/35KV	KEARNEY	FUSE LINK 15A 20/35KV 51015-53
49 4875	FUSE LINK 25AMP 4-12KV	KEARNEY	FUSE LINK 25A 4-12KV 51025
49 4877	FUSE LINK 25 AMPERE 20/35KV	KEARNEY	FUSE LINK 25A 20/35KV 51025-53
49 4890	FUSE LINK 40AMP 4-12KV	KEARNEY	FUSE LINK 40A 4-12KV 51040
49 4892	FUSE LINK 40 AMPERE 20/35KV	KEARNEY	FUSE LINK 40A 20/35KV 51040-39
49 4920	FUSE LINK 65AMP 4-12KV	KEARNEY	FUSE LINK 65A 4-12KV 51065
49 4922	FUSE LINK 65 AMPERE 20/35KV	KEARNEY	FUSE LINK 65A 20/35KV 51065-39
49 4950	FUSE LINK 100AMP 4-12KV	KEARNEY	FUSE LINK 100A 4-12KV 51100
49 4952	FUSE LINK 100 AMPERE 20/35KV	KEARNEY	FUSE LINK 100A 20/35KV 51100-39
49 4965	FUSE LINK 140AMP 4-12KV	KEARNEY	FUSE LINK 140A 4-12KV 51140
49 4980	FUSE LINK 200AMP 4-12KV	KEARNEY	FUSE LINK 200A 4-12KV 51200
49 7570	FUSE UNIT F/SMD-20 34KV 50E VERY SLOW FOR USE IN SMO-20 FUSE MOUNTING	S & C ELECTRIC	FU U F/SMD-20 34KV 50E 604050
49 7585	FUSE UNIT F/SMD-20 34KV 65E VERY SLOW	S & C ELECTRIC	FU U F/SMD-20 34KV 65E 604065
49 7600	FUSE UNIT F/SMD-20 34KV 80E VERY SLOW	S & C ELECTRIC	FU U F/SMD-20 34KV 80E 604080
58 1860	SLEEVE LOOP HYSPL 4/0 ACSR	BURNDY	SLV LOOP HYSPL 4/0 ACSR YCS28R

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
5B 2280	SLEEVE FULL TENSION 1/0 AAAC 1/0ACSR ALUMINUM COMPRESSION	HOMAC HOMAC	SLV FULL TENSION1/0AAAC ACSR-1/0 FT MS-10
5B 2610	SLEEVE 4/0 FULL TENSION COMPRESSION FOR ACSR, ALL ALUMINUM, 5005, 6201 AND COMPRESSED CONDUCTORS	BURNDY	SLV 4/0 AL FULL TENSION YDS28RL
5B 2640	SLEEVE FULL TENSION COMPRESSION FOR 336.4 ALL ALUMINUM CONCENTRIC AND COMPACT	BLACKBURN ANDERSON	SLV FULL TEN 336.4 AL ACS36 FTA-337
5B 2670	SLEEVE PARTIAL TENSION COMPRESSION FOR 477 ALL ALUMINUM SPACER CABLE	ANDERSON BURNDY	SLV PT TEN 477AL SPACER PTA-477 YCS331A
5B 2690	SPLICE COVER KIT FOR COVERED 336.4 AND 477 ALUMINUM CONDUCTOR S/C 20-7981 20-7995 AND 20-7996. EACH KIT CONTAINS 3 COLD SHRINK SPLICER COVERS PLUS MASTIC TAPE	3M	SPLICE CVR336-477SPACER 5743
5B 2695	SPLICER COVER KIT FOR COVERED 1/0 ALUM CONDUCTOR S/C 20-7958 AND 20-7990 EACH KIT CONTAINS 3 COLD SHRINK SPLICE COVERS PLUS MASTIC TAPE	3M	SPLICER COVER 1/0 SPACER 5742 3M
5B 2970	SLEEVE HYLINK 4/0 STR COPPER	BURNDY	SLV MYL 4/0 STR CU YS28
5B 3060	SLEEVE HYLINK 500 MCH COPPER	BURNDY	SLV MYL 500MCH CU YS34
5B 3150	SLEEVE HYLINK NO 2 STR	BURNDY	SLV HYL 2 STR YS2CL
5B 3210	SLEEVE MYLINK 350 MCH COPPER	BURNDY	SLV HYL 350MCH CU YS31
5B 3390	SLEEVE HYTEE 500KCH COPPER RUN & 4/0 STR COPPER TAP	BURNDY	SLV HYTEE 500KCH-4/0 CU YST3428
5B 3450	SLEEVE HYTEE 500 MCH COPPER RUN & TAP	BURNDY	SLV HYTEE 500MCH CU YST3434
5B 3538	SLEEVE 750KCH COPPER FOR SKV & UP CABLE	BURNDY	SLV 750KCH CU SKV & UP YS39T

MBA108-01

CENTRAL MAINE POWER COMPANY
CONTRACTOR ITEM CATALOGPAGE: 51
DATE: 11/04/03

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
5B 3570	SLEEVE HY REDUCER 500KCHIL TO 350KCHIL ALUMINUM	HOMAC BURNDY	SLV HY RED 500K-350K AL SACS00R350 YR334U31
5B 4350	SLEEVE COMPRESSION PARTIAL TENSION FOR NO 4 BARE SERVICE DROP NEUTRAL	NICOPRESS NICOPRESS	SLV NICO 4 ACSR 170P 1704P
5B 4360	SLEEVE COMPRESSION PARTIAL TENSION FOR 1/0 AAAC SERVICE DROP NEUTRAL	BLACKBURN	SLV SEMI-TEN 1/0-1/0 TR66
5B 4620	SLEEVE URD SERVICE CABLE 4 ALUM TO 4 ALUM	HOMAC	SLV URD 4AL - 4AL SAC4
5B 4770	SLEEVE URD SERVICE CABLE 2 ALUM TO 2 ALUM	HOMAC HOMAC	SLV URD 2AL - 2AL SAC2 SAC2 HOMAC
5B 4860	SLEEVE NON-TENSION SERVICE 1/0AAAC NEUT TO 2/0STR AL/CU	BLACKBURN HOMAC	SLV N TEN 1/0AAAC-2/0AL KL46-1 KIU2010
5B 5190	SLEEVE URD SERVICE CABLE 2/0 ALUM TO 2/0 STR ALUM/CU	BLACKBURN HOMAC	SLV URD 2/0AL-2/0AL&CU KL476-1 SAC-20
5B 5220	SLEEVE URD SERVICE CABLE 4/0 ALUM TO 4/0 ALUM/CU	BLACKBURN HOMAC	SLV URD 4/0AL-4/0AL&CU KL698-1 SAC-40
5B 5250	SLEEVE NON-TENSION SERVICE 336.4 ALUM TO 300/350MCH ALUM/CU	HOMAC	SLV N TEN 336.4-350AL&CU XIU336
5B 5260	SLEEVE URD CABLE 500KCH TO 500KCH ALUM USE WITH S/C 21-5440 OR 21-5490 SPLICE KITS	3M	SLV URD CBL 500AL-500AL CI-500
5B 5340	SLEEVE COMPRESSION COMPACT 336400 AL SPACER CABLE	ANDERSON	SLV SPL COMPACT 336.4AL ESP FTA-337
5B 5461	SPLICE AUTOMATIC 1/0 AAAC ONLY	RELIABLE ELEC	SPLICE AUTO 1/0AAAC AL55207
5B 5491	SPLICER AUTOMATIC NO. 4/0AAAC	RELIABLE ELEC FARGO	SPL AUTO 4/0 AAAC AL55266.8 RELIABLE ELEC GL-409A FARGO
5B 5730	SPLICER AUTOMATIC 336400 ALUM	BLACKBURN RELIABLE ELEC	SPL AUTO 336.4BR 8 TREE ATS266336 765BAP

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	58 6705	SPLICE GUY AUTOMATIC 5/16 EHS	RELIABLE ELEC		SPL GUY AUTO 5/16 5041
	58 6707	SPLICER GUY AUTOMATIC 7/16	RELIABLE ELEC		SPLICER GUY AUTO 7/16 5043
	58 6780	SPLICER AUTO MESSENGER FOR .052	RELIABLE ELEC		SPL AUT05044F/052 5044
	62 0050	BRACKET CABLE POSITIONING	ALUMA-FORM		BKT CABLE POSITIONING CS-B20
	62 0100	BRACKET, EQUIP MOUNTING FOR CROSSARMS NEHA "B" FOR USE WITH ARRESTERS, CUTOOTS, AND TERMINATORS	NACLEAN A B CHANCE A B CHANCE JOSLYN		BKT EQUIP MTG CROSSARM APP-1339 NACLEAN C206-02B3 C206-02B3 CHANCE J24712 JOSLYN
	62 0140	BRACKET EQUIPMENT MOUNTING 18 INCH WITH TWO CAPTIVE 1/2 K 2" BOLTS	HUGHES BROS INC NACLEAN NACLEAN		BKT EQUIP MTG 18 IN CF892B-18-1/2K2 G1MDA118ATB G1MDA118ATB (NPS)
	62 0200	BRACKET NEUTRAL-SPREADER	HENORIX HENORIX ENERSCAN		BKT NEUTRAL-SPREADER S604 S604 HENORIX 2920 ENERSCAN
	62 0210	BRACKET SPREADER FOR 336,400 SECONDARY TRIPLEX AND QUADRAPLEX	RELIABLE ELEC		BKT SPREADER 336 SECONO S601
	62 0230	BRACKET NEUTRAL CLAMP STEEL	LINE HARDWARE CO JOSLYN JOSLYN ENERSCAN		BKT NEUTRAL CLAMP STEEL NWB-50 LINE HARDWARE C PX77 PX77 JOSLYN 25101 ENERSCAN
	62 0290	BRACKET MESS TANGENT 14 IN WITH MC-2 CLAMP FOR 5/16 TO 3/4 INCH MESS	HENORIX		BKT MESS TANGENT 14 IN BM-14A
	62 0350	BRACKET MESSENGER AND CONDUCTOR DEADEND FOR SPACER CABLE	HENORIX		BKT MESS B COND D/E B0-35
	62 0360	BRACKET, VERTICAL TAP 35 KV FOR SPACER CABLE	HENORIX		BRACKET VERTICAL TAP 35 KV BV-35 BV-35
	62 0380	BRACKET STIRRUP FOR USE WHEN INSTALLING S/C 62-0390 AND S/C 62-0395	HENORIX		BKT STIRRUP TS-1

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	62 0390	BRACKET - 14" ANTI-SWAY FOR USE WITH S/C 62-0290 FOR SPACER CABLE	HENORIX		BRACKET - ANTI-SWAY 14" BAS-14F
	62 0395	BRACKET - 24" ANTI-SWAY FOR USE WITH S/C 62-0320 FOR SPACER CABLE	HENORIX		BRACKET - ANTI-SWAY 24" BAS-24F
	62 0400	BRACKET ANGLE 15KV DOUBLE CIRCUIT SPACER CABLE	HENORIX		BRACKET - DOUBLE CIR BA6-15
	62 0440	BRACKET ANGLE 15KV 4 CONDUCTOR	HENORIX		BKT ANG 15KV 4 WIRE BA4-15
	62 0470	BRACKET ANGLE 15KV 3 CONDUCTOR	HENORIX		BKT ANG 15KV 3C BA3-15
	62 0480	BRACKET ANGLE 35KV 3 CONDUCTOR SPACER CABLE	HENORIX		BKT ANGLE 35KV 3C SPACE BA3-35
	62 0485	BRACKET 2 PIN FOR SPACER CABLE	HENORIX		BKT 2 PIN SPACER CABLE 21P
	62 0495	BRACKET TRANSFORMER SECONDARY LEAD WITH INSULATOR	COOPER POWER		BKT TRN SEC LEAD W/INS DT4M11
	62 0500	INSULATOR CABLE SUPPORT FOR UP TO 2 7/8 INCH OUTSIDE DIAMETER CABLE USES 3 INCHES OF SPACE ON NOB-LOC CABLE SUPPORT	COOPER POWER		INS CBL RACK 1 7/16 IN DE6U1
	62 0560	INSULATOR CABLE SUPPORT FOR UP TO 4 INCH OUTSIDE DIAMETER CABLE USES 4 INCHES OF SPACE ON NOB-LOC CABLE SUPPORT	COOPER POWER		INS CBL RACK UNDR OE3U1
	62 0570	RACK CABLE MANHOLE NOB-LOC 11 HOLES ON TWO INCH CENTERS FOR NOB-LOC CABLE SUPPORTS LENGTH OVERALL 34 7/8 INCH	COOPER POWER CONTINENTAL ELECTRI		RACK CBL MANHOLE 11HOLE DU1810 SF-CR-1304
	62 0640	SUPPORT CABLE NOB-LOC 3 7/8 IN LONG	COOPER POWER		SUPPORT CBL 3 7/8 IN DU1S1
	62 0670	SUPPORT CABLE NOB-LOC 7 7/8 IN LONG	COOPER POWER		SUPPORT CBL 7 7/8 IN DU1S2
	62 0700	SUPPORT CABLE NOB-LOC 14 7/8 IN LONG	COOPER POWER		SUPPORT CBL 14 7/8 IN DU1S4
	62 0730	SUPPORT CABLE NOB-LOC 11 7/8 IN LONG	COOPER POWER		SUPPORT CBL 11 7/8 IN DU1S3

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
62 1460	CABINET URO TERMINAL SINGLE PHASE STEEL 18IN X 30IN X 30IN HIGH, HINGED LIO	MAYSTEEL	CABINET URO TERM 1 PH CH330-18TH
62 1490	CABINET URO TERMINAL THREE PHASE STEEL 40IN X 52IN X 36IN HIGH, WITH THREE DOORS	MAYSTEEL MAYSTEEL	CAB URO TERM 3PH STEEL CH3652-40SH-3-PHASE 621490
62 1491	CABINET URO TERMINAL THREE PHASE FIBERGLASS - TOP COVER 63 TH X 34 IN X 58 IN HIGH CAN BE PARTIALLY BURIED - ODES NOT REQUIRE SEPARATE PAO BOX		CAB URO TERM 3PH FIBER
62 1500	FIBERGLASS PADMOUNT SPACER 4INCH HIGH	HIGHLINE	PADMOUNT SPACER FG 4" HL-45S-4
62 1505	FIBERGLASS PADMOUNT SPACER 10 INCH HIGH	HIGHLINE	PADMOUNT SPACER FG 10" HL-45S-10
62 1525	DOOR FOR SIDEWALK VAULT 4 X 8 FOOT TY JO	BILCO	DOOR F/SIDEWALK VAULT
62 1580	GRATING ONLY FOR SIDEWALK FRAME TYPE J RIVETED GRATING 1/8IN BEARING BARS W/SERR-CRIMP CRIMP BAR STANDARO WIDTH 39 1/2IN 46 BEARING BARS SPAN 25 1/2IN TO OUTSIDE OF BAND BEARING BARS TO BE 1 1/4 X 1/8IN	IKG-BOROON	GRATE F/SIDEWALK FRAME PORT OMG. 5257-1
62 1610	GRATING FRAME FOR SIDEWALK	IRVING	GRATE FRAME F/SIDEWALK ONG-A5257-2
62 1620	GRATING FOR TRANSFORMER VAULT SIDEWALK 42 X 70 INCHES X 1 INCH DEEP STEEL HOT DIP GALVANIZED ORANING 0-725-A	IRVING	GRATE F/SMLK GALV 42X70 RIVETED TYPE 0
62 1690	GRATING FOR TRANSFORMER VAULT H20 LOAD- ING 35 X 42 INCHES X 3 1/2 INCHES DEEP STEEL HOT DIP GALVANIZED FOR ROAD DRAWING 0-724-A	IRVING	GRATE F/ROAD GALV 42X35 HEAVYNELD TYPE HB
62 1771	FRAME HANDHOLE FIBER GLASS WITH COVER 36 X 24 X 16 INCH DEEP OUTSIDE 25 X 16 X 16 INCH DEEP INSIOE 22 X 12 INCH OPENING	HIGHLINE	FR H/H 36X24X16 W/CVR HL 4I B
62 1780	FRAME HANDHOLE LOWER SEC 3X3X4 TYB	ETHERIDGE FDY	FR H/H LONER SEC
62 1785	FRAME HANDHOLE IOP SEC F/TY B		FR H/H TOP SEC TY B

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
62 1790	GALVANIZED STEEL PLATE 16"x24"x1/4" USED ON 7'X7' TRANSFORMER FOUNDATION TO COVER A PORTION OF THE CABLE HOLE WHEN THE TRANSFORMER DOES NOT COMPLETELY COVER IT.		STEEL PLATE FOR 7X7 PAO
62 1795	GALVANIZED STEEL PLATE 24"x24"x1/4" USED ON 9'X9' TRANSFORMER FOUNDATION TO COVER A PORTION OF THE CABLE HOLE WHEN THE TRANSFORMER DOES NOT COMPLETELY COVER IT.		STEEL PLATE FOR 9X9 PAO
62 1830	FRAME MANHOLE ROUND 32 INCH WITH COVER 6 INCH DEEP	ETHERIDGE FDY	FR H/H RD 32IN W/COVER M326
62 1970	FRAME MANHOLE COVER ROUND 27 1/2		FR H HOLE CVR RD 27 1/2
62 2310	IRON PULLING MANHOLE PRE-FABRICATED	T.W. DICK JOSLYN	IRON PULLING MANHOLE J8120
64 0062	SWITCH, STANDORD, AIR, GROUP OPERATED, VERTICAL, DUTOOOR, 15KV, 110KV BIL, 600-1200 AMPS CONTINUOUS, 61KA MOMENTARY, TR 205 GRAY INSULATORS WITH HORN GAP AND SWING HANDLE OPERATING MECHANISM FOR HORIZONTAL UPRIGHT MOUNTING. REFER TO ATTACHED SPECIFICATION 24-51 FOR DESIGN, FABRICATION, AND SHIPPING REQUIREMENTS.	PASCOR	SW STD GR OP 15KV 600-1200 VBPA-18-32S-001
64 0555	SWITCH A/B 15 KV 600A 3P LOADBREAK VERTICAL SIDEBREAK	S & C ELECTRIC BRIGES ELECT	SW A/B 15KV600A LDB VER 147512-E070S 973V-30
64 0660	SWITCH 34.5KV 600A INTERRUPT HOOKSTICK OPERATED HORIZONTAL 3 PHASE AIRBREAK SWITCH REFER TO S/C 64-0666 OR S/C 64-0667 FOR LA NDUNTING BRACKETIS	BRIGES ELECT	SW A/B 35KV HOOK/HORIZ 994X-H
64 0666	SWITCH ACCESSORY BRACKET FOR TWO ARRESTORS TO FIT S&C #147412- E0701R2 B 147432-ED711R2, S/C 64-0315	S B C ELECTRIC	SW BKT ARRESTER S&C OBL 5023R1
64 0668	ARRESTOR BRACKET FOR BRIGES AIRBREAK SWITCH	BRIGES ELECT	ARRESTOR BKT FOR A/B SW 2388

14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
64 0675	SWITCH A/B 20/34.5KV 600A INTERRUPT VERTICAL 3 PHASE SIOEBREAK	BRIGDES ELECT	SW A/B34KV VERT/SIDEBRK 994V-30
64 0676	SWITCH A/B 20/34.5 KV 600A INTERRUPT VERTICAL 3 PHASE VERTICAL BREAK	S & C ELECTRIC	SW A/B34KV VERT/VERTBRK 135744R1-E-ED154
64 2745	SWITCH, AIR, HOOK, BYPASS, 3 BLADE, 15KV, 600 AMPS CONTINUOUS, PER USCO DRAWING C-3029 SHEET 23 WITH SPECIAL BASE PER USCO DRANING A-673 SHEET 73 (FOR TWO POLE STRUCTURES)	USCO	SH,AIR,HK,BYPASS 15KV HD-RA-3 SPECIAL
64 2885	SWITCH DISC 27KV 600A UNDER ARM 150 KV BIL	CLEVELAND PR A B CHANCE	SW DISC 27KV UNDER ARM C102A88G03LS N30-648
67 0021	HANGER CROSSARM MOUNTING STEEL GALV FOR TRANSFORMERS WITH 11-1/4 INCH SUPPORT LUG SPACING		HGR TRN XARM 11-1/4"
67 0041	HANGER CROSSARM MOUNTING STEEL GALV FOR TRANSFORMERS WITH 23-1/4 INCH SUPPORT LUG SPACING		HGR TRN XARM 23-1/4"
67 0101	MOUNT TRANSFORMER FOR 3 UNIT CLUSTER 3 TO 100 KVA FOR 8 TO 12 IN POLE	ALUMA-FORM	MT TRN 3/3-100/12 IN PO 15M3-6
67 0121	MOUNT TRANSFORMER FOR 3 UNIT CLUSTER 3 TO 100 KVA FOR 10 TO 14 IN POLE	ALUMA-FORM	MT TRN 3/3-100/14 IN PO 15M3-6-14
67 0141	MOUNT TRANSFORMER FOR 3 UNIT CLUSTER 167 KVA FOR 10 TO 14 INCH POLE	ALUMA-FORM ALUMA-FORM	MT TRN 3/167/14 IN POLE 15M3-9-14 15N3-9-14
67 0161	PLATE TRANSFORMER ADAPTER FOR HANGING SINGLE PHASE TRANSFORMERS WITH TYPE C LUGS ON CLUSTER MOUNT	ALUMA-FORM	PLATE TRN ADAPT 2000 LB 321-A
67 0181	PLATE TRANSFORMER ADAPTER FOR DIRECT POLE MOUNTING OF TRANSFORMERS WITH TYPE C LUGS	FLAGG CONTINENTAL ELECTRI	PLATE TRN MTG TO 500KVA PAT 4 T84
67 0261	PLATFORM TRANS ALUM 16FT 13500LB CAP	ALUMA-FORM	PLATFORM TRN AL 16 FT HD2-PAL-16
67 3921	SKIRT FOR MOUNTING THREE PHASE SWITCH CABINET ON FIBERGLASS BOX PAD S/C 67-3961 (PER ATTACHEO DISTRIBUTION STANDARDS PAGE 393-3 (FOR CONSTRUCTION)	STEEL PRO INC. T.W. DICK T W DICK CO INC	SKIRT 3PH SWITCH CABINET CMP 393-3 CMP 393-3 673921

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
67 3931	PAD COVER FLAT FIBERGLASS F/43X38 WITH FARGO TYPE LOCK	HIGHLINE	PAD COVER FLAT FARGO LX HL-45-2EF
67 3932	FARGO TYPE LOCK KIT TO LOCK DOWN FIBER-GLASS PADMOUNT COVER (1 EA = 4 LOCK KITS)	HIGHLINE HIGHLINE	FARGO TYPE LOCK KIT 30953 50953 HIGHLINE
67 3941	PAD COVER OOMEQ FIBERGLASS TO HOUSE 15KV URO LOADBREAK JUNCTIONS ON 43 X 38 INCH TOP FIBERGLASS BOX PAD	HIGHLINE	PAD COVER OOMEQ FIBERGL HLBP/IS
67 3961	PAD TRN URO FIBERGLASS 43X38X32 DEEP BOX	ELECTRI GLASS NOROIC HIGHLINE HIGHLINE	PAD TRN URO FIBERGLASS BP2000-LF-CMP BP38-43-32-18-CMP HL-48 HL-48
67 3971	PADMOUNT FIBERGLASS JUNCTION BOX, SINGLE PHASE, FOR MOUNTING FEED THRU RECEPTACLES, 36"X36"X19", WITH COVER AND TWO HI LOCKING ASSEMBLIES, BOTTOM OPENING 28" X 28", COLOR MUNSSELL GREEN	ADVANCED M.L INC	PAO MT FIBERGLASS ENCL AM-3619-2M1
74 0330	BRACE WOOD CROSSARM 35 INCH, 34.5KV AND 115KV, PAIR TO BE USED FOR 5 FOOT CROSSARM BOLT SPACING WITH 18 INCH DROP SPACING	JOSLYN ALUMA-FORM	BRACE WOOD XARM 35" JS160 R 6018A 11/16
74 0510	XARM 6 PIN B 3 1/2 X 4 1/2 X 8 FEET PER CMP SPECIFICATION OF 11/08/95	HATH PAT	XARM 6PIN B XARM 6PINB
74 0540	XARM 8 PIN B 3 3/4 X 4 3/4 X 10 FEET PER CMP SPECIFICATION 11/08/95	HUGHES BROS INC	XARM 8 PIN B PARRALLAN PSL
74 0930	PLATFORM TIMBER 4 3/4 X 5 3/4 X 18 FOR USE WITH S/C 67-0261 PER CMP SPEC 10/28/86	FORTEK KOPPERS	PLATFORM TIMBER 18 FOOT SPEC 10/28/86 FOR-TEK SPEC 10/28/86 KOPPERS
74 0990	POLE 30/3 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 30/3 PINE TREATED 30/3 FOR-TEK 30/3 KOPPERS
74 1020	POLE 30/4 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 30/4 PINE TREATED POLE 40/2 PINE TREATED 30/4 SPP FOR-TEK 30/4 SPP KOPPERS

58
59
60

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
74 1050	POLE 30/5 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 30/5 PINE TREATED 30/5 SPP FOR-TEK 30/5 SPP KOPPERS
74 1110	POLE 35/2 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 35/2 PINE TREATED 35/2 SPP FOR-TEK 35/2 SPP KOPPERS
74 1141	POLE 35/3 SPP DR NPP PER ECNE GUIDELINE G-5	KOPPERS FORIEK	POLE 35/3 SPP DR NPP 35/3 NPP OR SPP KOPPERS 35/5 NPP OR SPP FOR-TEK
74 1170	POLE 35/4 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 35/4 PINE TREATED 35/4 SPP FOR-TEK 35/4 SPP KOPPERS
74 1200	POLE 35/5 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 35/5 PINE TREATED 35/5 SPP FOR-TEK 35/5 SPP KOPPERS
74 1215	POLE 40/1 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 40/1 PINE TREATED 40/1 SPP FOR-TEK 40/1 SPP KOPPERS
74 1230	POLE 40/2 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 40/2 PINE TREATED 40/2 SPP 40/2 SPP FOR-TEK 40/2 SPP KOPPERS
74 1261	POLE 40/3 SPP DR NPP PER ECNE GUIDELINE G-5	FORTEK KOPPERS	POLE 40/3 SPP DR NPP 40/3 SPP OR NPP FOR-TEK 40/3 SPP OR NPP KOPPERS
74 1290	POLE 40/4 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 40/4 PINE TREATED 40/4 SPP FOR-TEK 40/4 SPP KOPPERS
74 1320	POLE 40/5 PINE FULL LENGTH TREATED	FORTEK KOPPERS	POLE 40/5 PINE TREATED 40/5 SPP FOR-TEK 40/5 SPP KOPPERS
74 1335	POLE 45/1 SPP PER ECNE SPEC P-3 REV 1	FORTEK KOPPERS	POLE 45/1 SPP 45/1 SPP FOR-TEK 45/1 SPP KOPPERS
74 1350	POLE 45/2 SPP PER ECNE SPEC P-3 REV 1	FORTEK KOPPERS	POLE 45/2 PSP POLE 45/2 SPP 45/2 SPP FOR-TEK 45/2 SPP KOPPERS

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
74 1380	POLE 45/3 SPP PER ECNE SPEC P-3 REV 1	FOR-TEK	POLE 45/3 SPP POLE 45/3
74 1410	POLE 45/4 SPP PER ECNE SPEC P-3 REV 1	FORTEK KOPPERS	POLE 45/4 PSP POLE 45/4 SPP 45/4 SPP FOR-TEK 45/4 SPP KOPPERS
74 1440	POLE 45/5 SPP PER ECNE SPEC P-3 REV 1	FORTEK KOPPERS	POLE 45/5 PSP POLE 45/5 SPP 45/5 SPP FOR-TEK 45/5 SPP KOPPERS
74 1455	POLE 50/H1 SPP PER ANSI 05.1-1979 UNFRAMED, TREATED PER ANPA C4-80 WITH PENTACHLOROPHENOL IN OIL TO A MINIMUM RETENTION OF 0.38 PCF	FORTEK KOPPERS	POLE 50/H1 SPP UNFRAMED 50/H1 SPP FOR-TEK 50/H1 SPP KOPPERS
74 1460	POLE 50/1 SPP PER CMP SPEC OF 02/29/88	FORTEK KOPPERS	POLE 50/1 SPP 50/1 SPP FOR-TEK 50/1 SPP KOPPERS
74 1470	POLE 50/2 SPP PER ANSI 05.1-1979 UNFRAMED, TREATED PER ANPA C4-80 WITH PENTACHLOROPHENOL IN OIL TO A MINIMUM RETENTION OF 0.38 PCF	FORTEK KOPPERS	POLE 50/2 PSP 50/2 SPP FOR-TEK 50/2 SPP KOPPERS
74 1500	POLE 50/3 SPP PER ANSI 05.1-1979 UNFRAMED, TREATED PER ANPA C4-80 WITH PENTACHLOROPHENOL IN OIL TO A MINIMUM RETENTION OF 0.38 PCF	FORTEK KOPPERS	POLE 50/3 PSP 50/3 SPP FOR-TEK 50/3 SPP KOPPERS
74 1520	POLE 55/H1 SPP PER ANSI 05.1-1979 UNFRAMED, TREATED PER ANPA C4-80 WITH PENTACHLOROPHENOL IN OIL TO A MINIMUM RETENTION OF 0.38 PCF	FORTEK KOPPERS	POLE 55/H1 SPP UNFRAMED 55/H1 SPP FOR-TEK 55/H1 SPP KOPPERS
74 1525	POLE 55/1 SPP PER ANSI 05.1-1979 UNFRAMED, TREATED PER ANPA C4-80 WITH PENTACHLOROPHENOL IN OIL TO A MINIMUM RETENTION OF 0.38 PCF	FORTEK KOPPERS	POLE 55/1 SPP, UNFRAMED 55/1 SPP FOR-TEK 55/1 SPP KOPPERS
74 1530	POLE 55/2 SPP PER ECNE GUIDELINE G-5	FORTEK KOPPERS	POLE 55/2 SPP 55/2 SPP FOR-TEK 55/2 SPP KOPPERS
74 1560	POLE 55/3 SPP PER ANSI 05.1-1979 UNFRAMED, TREATED PER ANPA C4-80 WITH PENTACHLOROPHENOL IN OIL TO A MINIMUM RETENTION OF 0.38 PCF	FORTEK KOPPERS	POLE PSP 55/3 55/3 SPP FOR-TEK 55/3 SPP KOPPERS

HBA10B-01		CENTRAL HAINE POWER COMPANY CONTRACTOR ITEM CATALOG		PAGE: 60
				DATE: 11/04/03
LINE				MANUFACTURER
ITEM	DESCRIPTION	NAME	PART NUMBER	
74 1565	POLE 60/1 SPP PER ANSI 05.1-1979 UNFRAHEB, TREATED PER AWWA C4-80 WITH PENTACHLOROPHENOL IN OIL TO	FORTEK KOPPERS	POLE 60/1 SPP, UNFRAHEB 60/1 SPP FOR-TEK 60/1 SPP KOPPERS	
74 1570	POLE 60/2 SPP PER ANSI 05.1-1979 UNFRAHEB, TREATED PER AWWA C4-80 WITH PENTACHLOROPHENOL IN OIL TO A MINIMUM RETENTION OF 0.5B PCF	FORTEK KOPPERS	POLE 60/2 SPP, UNFRAHEB 60/2 SPP FOR-TEK 60/2 SPP KOPPERS	
74 1575	POLE 60/3 SPP PER ANSI 05.1-1979 UNFRAHEB, TREATED PER AWWA C4-80 WITH PENTACHLOROPHENOL IN OIL TO A MINIMUM RETENTION OF 0.5B PCF	FORTEK KOPPERS	POLE 60/3 SPP UNFRAHEB 60/3 SPP FOR-TEK 60/3 SPP KOPPERS	
74 1580	POLE 65/3 SPP PER ANSI 05.1-1979 UNFRAHEB, TREATED PER AWWA C4-1980 WITH PENTACHLOROPHENOL IN OIL TO A MINIMUM RETENTION OF 0.5B PCF	FORTEK KOPPERS	POLE 65/3 SPP, UNFRAHEB 65/3 SPP FOR-TEK 65/3 SPP KOPPERS	
74 1720	POLE WESTERN CEDAR UNTREATED 3S/5	FORTEK KOPPERS	POLE WC UNTREATED 3S/5 WC UNTREATED 3S/5 FOR-TEK WC UNTREATED 3S/5 KOPPERS	
74 1740	POLE WESTERN CEDAR UNTREATED 40/4	FORTEK KOPPERS	POLE WC UNTREATED 40/4 WC UNTREATED 40/4 FOR-TEK WC UNTREATED 40/4 KOPPERS	
74 1760	POLE WESTERN CEDAR UNTREATED 45/3 PER ANSI 05.1-1987 UNFRAHEB	FORTEK KOPPERS	POLE WC 45/3 UNTREATED WC UNTREATED 45/3 FOR-TEK WC UNTREATED 45/3 KOPPERS	
74 1770	POLE WESTERN CEDAR UNTREATED 50/2 PER ANSI 05.1-1987 UNFRAHEB	FORTEK KOPPERS	POLE WC 50/2 UNTREATED WC UNTREATED 50/2 FOR-TEK WC UNTREATED 50/2 KOPPERS	
B1 3020	COMPOUND DUCT SEAL	HAC HAC	COMPOUND DUCT SEAL SEAL/1 COMPOUND SEAL/1 COMPOUND HAC	
B1 4900	HARKING FLAG, WHITE 4" X 5" - 30" STAFF	BLACKBURN SETON	FLAG, HARKING - WHITE PMF30WHITE SETON	
B1 4905	HARKING FLAG, RED 4" X 5" - 30" STAFF	SETON	FLAG, HARKING - RED PMF30RED SETON	
B1 5400	KIT CLEANING FOR P.E. INSULATION WITH 3 SOLVENT SATURATED CLEANING PADS AND 4 FEET OF 1 INCH WIDE ALUMINUM OXIDE GRIT CLOTH	3H 3H SPEED SYSTEM	KIT CABLE CLEANING CC-2 CC-2 3H HP3H SPEED SYSTEM	

HBA10B-01		CENTRAL HAINE POWER COMPANY CONTRACTOR ITEM CATALOG		PAGE: 61
				DATE: 11/04/03
LINE				MANUFACTURER
ITEM	DESCRIPTION	NAME	PART NUMBER	
B1 5407	LABEL CABLE KIT CONTAINING 25 MOUNTING BARS 50 TIES, 50 EACH LETTERS, AND NUMBERS	RELIABLE ELEC	LABEL CABLE KIT S-BS0-KIT	
B1 5408	LABEL CABLE MOUNTING BAR BLACK POLY (PACKAGE 100 PER PKG)	RELIABLE ELEC RELIABLE ELEC RELIABLE ELEC	LABEL CABLE MTG BAR SB50 SB50 RELIABLE SB50 RELIABLE ELEC	
B1 5409	LABEL CABLE TIE (PACKAGE 100 PER. PKG)	RELIABLE ELEC THOMAS B BETTS THOMAS B BETTS TYTON	LABEL CABLE TIE SB50T RELIABLE ELEC TY52BNK TY52BNK TAB TS0L-0 25/PKG TYTON	
B1 5410	LABEL CABLE NUMBER CHARACTER 0	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE NUMBER 0 SB50M-0 SB50M-0 RELIABLE	
B1 5411	LABEL CABLE CHARACTER NUMBER 1, LETTER I, OR DASH - 1 I -	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE 1 I OR - SB50M-1 SB50M-1 RELIABLE	
B1 5412	LABEL CABLE NUMBER CHARACTER 2	RELIABLE ELEC	LABEL CABLE NUMBER 2 SB50M-2	
B1 5413	LABEL CABLE NUMBER CHARACTER 3	RELIABLE ELEC RELIABLE ELEC RELIABLE ELEC	LABEL CABLE NUMBER 3 SB50M-3 SB50M-3 RELIABLE SB50M-3 RELIABLE ELEC	
B1 5414	LABEL CABLE NUMBER CHARACTER 4	RELIABLE ELEC	LABEL CABLE NUMBER 4 SB50M-4	
B1 5415	LABEL CABLE NUMBER CHARACTER 5	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE NUMBER 5 SB50M-5 SB50M-5 RELIABLE	
B1 5416	LABEL CABLE NUMBER CHARACTER 6,9	RELIABLE ELEC	LABEL CABLE NUMBER 6,9 SB50M-6	
B1 5417	LABEL CABLE NUMBER CHARACTER 7	RELIABLE ELEC	LABEL CABLE NUMBER 7 SB50M-7	
B1 5418	LABEL CABLE NUMBER CHARACTER 8	RELIABLE ELEC	LABEL CABLE NUMBER 8 SB50M-8	
B1 5419	LABEL CABLE NUMBER ONE-HALF 1/2	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE NUMBER 1/2 SB50PR-1/2 SB50PR-1/2 RELIABLE	

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
81 5420	LABEL CABLE DECIMAL POINT	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE NUMBER . SB50PR-. SB50PR- RELIABLE
81 5421	LABEL CABLE LETTER CHARACTER A	RELIABLE ELEC RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER A SB50L-A SB50L-A RELIABLE SB50L-A RELIABLE ELEC
81 5422	LABEL CABLE LETTER CHARACTER B	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER B SB50L-B SB50L-B RELIABLE
81 5423	LABEL CABLE LETTER CHARACTER C	RELIABLE ELEC RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER C SB50L-C SB50L-C RELIABLE SB50L-C RELIABLE ELEC
81 5424	LABEL CABLE LETTER CHARACTER D	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER D SB50L-D SB50L-D RELIABLE
81 5425	LABEL CABLE LETTER CHARACTER E	RELIABLE ELEC	LABEL CABLE LETTER E SB50L-E
81 5426	LABEL CABLE LETTER CHARACTER F	RELIABLE ELEC	LABEL CABLE LETTER F SB50L-F
81 5427	LABEL CABLE LETTER CHARACTER G	RELIABLE ELEC	LABEL CABLE LETTER G SB50L-G
81 5428	LABEL CABLE LETTER CHARACTER H	RELIABLE ELEC	LABEL CABLE LETTER H SB50L-H
81 5430	LABLE CABLE LETTER CHARACTER J	RELIABLE ELEC	LABEL CABLE LETTER J SB50L-J
81 5431	LABLE CABLE LETTER CHARACTER K	RELIABLE ELEC	LABEL CABLE LETTER K SB50L-K
81 5432	LABEL CABLE LETTER CHARACTER L	RELIABLE ELEC RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER L SB50L-L SB50L-L RELIABLE SB50L-L RELIABLE ELEC
81 5433	LABEL CABLE LETTER CHARACTER M	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER M SB50L-M SB50L-M RELIABLE

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
81 5434	LABEL CABLE LETTER CHARACTER H	RELIABLE ELEC RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER N SB50L-N SB50L-N RELIABLE SB50L-N RELIABLE ELEC
81 5435	LABEL CABLE SYMBOL PHASE 0	RELIABLE ELEC RELIABLE ELEC RELIABLE ELEC	LABEL CABLE SYMBOl 0 SB50PR-0 SB50PR-0 RELIABLE SB50PR-0 RELIABLE ELEC
81 5436	LABEL CABLE LETTER CHARACTER P	RELIABLE ELEC RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER P SB50L-P SB50L-P RELIABLE SB50L-P RELIABLE ELEC
81 5437	LABEL CABLE LETTER CHARACTER Q	RELIABLE ELEC	LABEL CABLE LETTER Q SB50L-Q
81 5438	LABEL CABLE LETTER CHARACTER R	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER R SB50L-R SB50L-R RELIABLE
81 5439	LABEL CABLE LETTER CHARACTER S	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER S SB50L-S SB50L-S RELIABLE
81 5440	LABEL CABLE LETTER CHARACTER T	RELIABLE ELEC RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER T SB50L-T SB50L-T RELIABLE SB50L-T RELIABLE ELEC
81 5441	LABEL CABLE LETTER CHARACTER U	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER U SB50L-U SB50L-U RELIABLE
81 5442	LABEL CABLE LETTER CHARACTER V	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER V SB50L-V SB50L-V RELIABLE
81 5443	LABEL CABLE LETTER CHARACTER W	RELIABLE ELEC	LABEL CABLE LETTER W SB50L-W
81 5444	LABEL CABLE LETTER CHARACTER X	RELIABLE ELEC RELIABLE ELEC	LABEL CABLE LETTER X SB50L-X SB50L-X RELIABLE
81 5445	LABEL CABLE LETTER CHARACTER Y	RELIABLE ELEC	LABEL CABLE LETTER Y SB50L-Y

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
B1 5446	LABEL CABLE LETTER CHARACTER 2	RELIABLE ELEC	LABEL CABLE LETTER 2 SB50L-2
B1 5447	LABEL 4 1/2 X 8 BLACK ON ORANGE & WHITE PRESSURE SENSITIVE VINYL FOR PADMOUNT EQUIPMENT ...WARNING HAZARDOUS VOLTAGE KEEP OUT PER CMP SPEC OF 03/96	LEH LEH BRADY ALLIED DECALS	LABEL WARNING KEEP OUT B927 NEHA-FIG 1 B927 NEHA-FIG 1 LEH B927 NEHA-FIG 1 BRADY NEHA-FIG 1 ALLIED DECAL
B1 5448	LABEL 4 1/2 X 8 BLACK & RED ON WHITE PRESSURE SENSITIVE VINYL FOR PADMOUNT EQUIPMENT DANGER HAZARDOUS VOLTAGE KEEP OUT PER CMP SPEC OF 03/96	BRADY LEH LEH ALLIED DECALS	LABEL DANGER KEEP OUT B927 NEHA-FIG 2 BRADY DANGER KEEP OUT DANGER KEEP OUT LEH NEHA-FIG 2 ALLIED DECALS
B1 5449	LABEL 4 X 6 BLACK ON WHITE PRESSURE SENSITIVE VINYL ASBESTOS WASTE MATERIAL ETC	CMP CO BRADY	LABEL ASBESTOS WASTE GRAPHICS DEPT LABEL ASBESTOS WASTE BRADY
B1 5450	LABEL 6 X 6 BLACK ON YELLOW PRESSURE SENSITIVE VINYL CAUTION CONTAINS PCB'S (POLYCHLORINATED BIPHENYLS) ETC	BRADY BRADY GRAPHICS DEPT	LABEL CAUTION PCB CAUTION/PCB'S CAUTION/PCB'S BRADY CMP CO
B1 5453	LABEL 3 X 5 BLACK ON YELLOW PRESSURE SENSITIVE VINYL REVERSE PRINTING LOOP FEED	BRADY BRADY	LABEL LOOP FEED LOOP FEED LOOP FEED BRADY
B1 5454	LABEL 3X5 BLACK ON YELLOW PRESSURE SENSITIVE VINYL CAUTION MULTIPLE CABLES	BRADY	LABEL CAUTION MULTIPLE CAUTION MULTIPLE BRADY
B1 5455	LABEL 3 X 5 BLACK ON YELLOW PRESSURE SENSITIVE VINYL CAUTION ONE PHASE OF THREE PHASE FEED	BRADY	LABEL CAUTION 1 PH OF 3 CAUTION 1PH OF 3 BRADY
B1 5456	LABEL 3 X 5 BLACK ON YELLOW PRESSURE SENSITIVE VINYL EMERGENCY SPARE ETC	EASTERN METAL	LABEL EMERGENCY SPARE LABEL EMERG SPARE EASTERN
B1 5457	LABEL 4 1/2 X 5 BLACK ON YELLOW PRESSURE SENSITIVE VINYL CAUTION DO NOT TIE ALIVE	BRADY	LABEL DO NOT TIE ALIVE DO NOT TIE LIVE BRADY
B1 5458	LABEL 4 X 4 GREEN ON WHITE PRESSURE SENSITIVE VINYL GREEN CROSS 3 5/8 X 3 5/8 X 7/8 STROKE	BRADY BRADY	LABEL GREEN CROSS GREEN CROSS GREEN CROSS BRADY

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
B1 5459	LABEL 7X10 GREEN ON WHITE PRESSURE SENSITIVE VINYL SAFETY ADVISORY LIVE FRONT PADMOUNT TRANSFORMER PER CMP SPEC DATED 03/96.	MESCO	LABEL SAFETY LIVE FRONT SAFETY LIVE FRONT
B1 5460	LABEL 6 X 6 RED ON YELLOW PRESSURE SENSITIVE VINYL HAZARDOUS WASTE FEDERAL AND STATE LAW PROHIBITS ETC	MESCO	LABEL HAZARDOUS WASTE HAZARDOUS WASTE
B1 5461	LABEL 6X6 RED ON WHITE W/ MAGNETIC BACKING	MESCO	LABEL RED CROSS MAGNETIC MESCO
B1 5462	LABEL 6X6 RED ON WHITE PRESSURE SENSITIVE VINYL RED CROSS 4X4X1 1/4 INCH STROKE	MESCO	LABEL RED CROSS PRESSURE RED CROSS
B1 5463	LABEL 3X5 BLACK ON WHITE PRESSURE SENSITIVE VINYL H O W/GRAPHIC SYMBOL	BRADY BRADY	LABEL NORMALLY OPEN NORMALLY OPEN NORMALLY OPEN BRADY
B1 5464	LABEL 8 X 5 BLACK ON YELLOW PRESSURE SENSITIVE VINYL ORN-E	BRADY	LABEL ORN-E BX5 ORN-E BX5 BRADY
B1 5466	LABEL 1.6 X 5.2 BLACK ON WHITE PRESSURE SENSITIVE VINYL PRIVATELY OWNED CABLES	BRADY BRADY	LABEL PRIVATE CABLES PRIVATE CABLES PRIVATE CABLES BRADY
B1 5467	LABEL 1.6 X 5.2 BLACK ON WHITE PRESSURE SENSITIVE VINYL LOAD CAPACITY - 4000 LBS CAPACITY 4-35' POLES CAPACITY 3-40' POLES	BRADY	LABEL LOAD CAP 4000 LBS LOAD CAP 4000 LBS BRADY
B1 5468	LABEL 1.6 X 5.2 BLACK ON WHITE PRESSURE SENSITIVE VINYL LOAD CAPACITY - 8000 LBS CAPACITY 9-35' POLES CAPACITY 6-40' POLES	BRADY	LABEL LOAD CAP 8000 LBS LOAD CAP 8000 LBS BRADY
B1 5482	LABEL 3 X 3 BLACK ON BLUE POLYESTER 17 FOR 175 WATT MERCURY STREETLIGHT		LABEL STREETLIGHT 175 M
B1 5483	LABEL 3 X 3 BLACK ON BLUE POLYESTER 25 FOR 250 WATT MERCURY STREETLIGHT		LABEL STREETLIGHT 250 N
B1 5488	LABEL 3 X 3 BLACK ON GOLD POLYESTER 5 FOR 50 WATT SODIUM STREETLIGHT		LABEL STREETLIGHT 50 S
B1 5489	LABEL 3 X 3 BLACK ON GOLD POLYESTER 7 FOR 70 WATT SODIUM STREETLIGHT		LABEL STREETLIGHT 70 S

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
B1 5490	LABEL 3 X 3 BLACK ON GOLD POLYESTER 10 FOR 100 WATT SODIUM STREETLIGHT		LABEL STREETLIGHT 100 S
B1 5491	LABEL 3 X 3 BLACK ON GOLD POLYESTER 15 FOR 150 WATT SODIUM STREETLIGHT		LABEL STREETLIGHT 150 S
B1 5492	LABEL 3 X 3 BLACK ON GOLD POLYESTER 25 FOR 250 WATT SODIUM FIXTURE		LABEL STREETLIGHT 250 S
B1 5493	LABEL 3 X 3 BLACK ON GOLD POLYESTER 40 FOR 400 WATT SODIUM FIXTURE		LABEL STREETLIGHT 400 S
B1 5498	LABEL 5 1/4 X 7 BROWN ON ORANGE PRESSURE SENSITIVE VINYL UNLAWFUL TO OPERATE THIS EQUIPMENT WITHIN 10 FEET OF ENERGIZED POWER LINES	BRADY	LABEL UNLAWFUL TO OPERATE UNLAWFUL TO OPERATE BRADY
B1 5500	LABEL - NON-HAZARDOUS WASTE - 6" X 6"		LABEL - NON HA2 WASTE
A1 5513	MARKER BOARD #2 PINE BLACK 1"X6"X6" WITH NAIL HOLE AND GALVANIZED BO NAIL (DISCONTINUED)		(DISCONTINUED)
B1 5515	MARKER NAIL STAINLESS STEEL 1 INCH RING	GEO GEO SMAN SECURE PRODUCT GEO	MARKER NAIL 1" SS PREMAX GN3D PREMAX GN3D GEO 304 SS B1-5515 GEO
B1 5516	MARKER NAIL ALUMINUM ROOFING 7/16 INCH HEAD 1 1/4 INCH SHANK FOR POINT AND MARKER DISCS; PACKED 500 PER CARTON	OSHOSE OSHOSE	MARKER NAIL ROOFING AL 025 025 OSNOSE
B1 5517	MARKER, POLE, BOTTOM OF CMP SPACE 3 1/4 X 2 1/2	PREMAX PREMAX	MARKER, POLE, CMP SPACE BOTTOM OF CMP SPACE BOTTOM OF CMP SPACE/PREMAX
B1 5518	MARKER POLE EMBOSSED PRIVATE LINE 1.5 X 5.75 INCH ALUMINUM	PREMAX PREMAX	MARKER POL PRIVATE LINE PRIVATE LINE PRIVATE LINE/PREMAX
B1 5519	MARKER POLE EMBOSSED ALUMINUM CMP CO 3/4 X 3 3/8 INCH	PREMAX PREMAX	MARKER POLE TAG CMP CO DESIGN 12 CMP CO DESIGN 12 CMP CO PREMAX
B1 5520	MARKER POLE EMBOSSED ALUMINUM 0 2 INCH HIGH	PREMAX PREMAX	MARKER POLE TAG 0 ROMAN 2" 0 ROMAN 2" 0 PREMAX

HBA108-01

CENTRAL MAINE POWER COMPANY
CONTRACTOR ITEM CATALOGPAGE: 67
DATE: 11/04/03

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
B1 5521	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH 1	PREMAX	MARKER POLE TAG 1 ROMAN 2" 1
B1 5522	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH 2	PREMAX PREMAX	MARKER POLE TAG 2 ROMAN 2" 2 ROMAN 2" 2 PREMAX
B1 5523	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH 3	PREMAX PREMAX	MARKER POLE TAG 3 ROMAN 2" 3 ROMAN 2" 3 PREMAX
B1 5524	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH 4	PREMAX PREMAX	MARKER POLE TAG 4 ROMAN 2" 4 ROMAN 2" 4 PREMAX
B1 5525	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH 5	PREMAX PREMAX	MARKER POLE TAG 5 ROMAN 2" 5 ROMAN 2" 5 PREMAX
B1 5526	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH 689	PREMAX	MARKER POLE TAG 6A9 ROMAN 2" 6 & 9
A1 5527	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH 7	PREMAX PREMAX	MARKER POLE TAG 7 ROMAN 2" 7 ROMAN 2" 7 PREMAX
B1 5528	MARKER POLE EMBOSSED ALUMINUM B 2 INCH HIGH	PREMAX PREMAX	MARKER POLE TAG B ROMAN 2" B ROMAN 2" B PREMAX
A1 5529	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH 1/2	PREMAX PREMAX	MARKER POLE TAG 1/2 ROMAN 2" 1/2 UA2-1/2 ROMAN 2" PREMAX
B1 5531	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH A	PREMAX	MARKER POLE TAG A ROMAN 2" A
B1 5532	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH B	PREMAX	MARKER POLE TAG B ROMAN 2" B
B1 5533	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH C	PREMAX PREMAX	MARKER POLE TAG C ROMAN 2" C ROMAN 2" C PREMAX
B1 5534	MARKER POLE EMBOSSED ALUMINUM 2 INCH HIGH 1/3	PREMAX PREMAX	MARKER POLE TAG 1/3 UA2-1/3 ROMAN 2" UA2-1/3 ROMAN 2" PREMAX

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	BI 5535	MARKER POLE EMBOSSED ALUMINUM 1/4 2 INCH HIGH	PREMAX PREMAX		MARKER POLE TAG 1/4 UA2-1/4ROMAN 2" UA2-1/4ROMAN 2" PREMAX
	BI 5538	MARKER POLE EMBOSSED ALUMINUM J 2 INCH HIGH	PREMAX PREMAX		MARKER POLE TAG J ROMAN 2" J ROMAN 2" J PREMAX
	BI 5542	MARKER POLE EMBOSSED ALUMINUM P 2 INCH HIGH	PREMAX PREMAX		MARKER POLE TAG P ROMAN 2" P ROMAN 2" P PREMAX
	BI 5544	MARKER POLE EMBOSSED ALUMINUM S 2 INCH HIGH	PREMAX PREMAX		MARKER POLE TAG S ROMAN 2" S ROMAN 2" S PREMAX
	BI 5551	MARKER POLE EMBOSSED ALUMINUM DATE 1 INCH DISC WITH CENTER MOLE ONE SIDE CMP CO. 1996 REVERSE SIDE CMP CO. 1997	OSMOSE OSMOSE		MARKER POLE DATE TAG 1" DISC ALUM EMBOS 1" DISC ALUM EMBOS OSMOSE
	BI 5568	MARKER URD PRESSURE SENSITIVE CUSTOMER 2 7/8 INCH HIGH X 1 3/4 EQUIPMENT WIDE REFLECTIVE YELLOW ON BLACK OUTDOOR USE	BRADY BRADY		MARKER URD CUSTOMER EQU CUSTOMER EQUIP CUSTOMER EQUIP CUSTOMER EQUIP BRADY
	BI 5569	MARKER URD PRESSURE SENSITIVE CMPCO 2 7/8 INCH HIGH X 1 3/4 WIDE REFLECTIVE YELLOW ON BLACK OUTDOOR USE	BRADY BRADY		MARKER URD 2 1/2" CMPCO CMPCO CMPCO BRADY
	BI 5570	MARKER URD PRESSURE SENSITIVE 0 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX BRADY		MARKER URD 2 1/2" 0 NV25YBE-0 5000-0
	BI 5571	MARKER URD PRESSURE SENSITIVE 1 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX PREMAX BRADY		MARKER URD 2 1/2" 1 NV25YBE-1 NV25YBE-1 PREMAX 5000-1 BRADY
	BI 5572	MARKER URD PRESSURE SENSITIVE 2 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX BRADY		MARKER URD 2 1/2" 2 NV25YBE-2 5000-2
	BI 5573	MARKER URD PRESSURE SENSITIVE 3 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX BRADY		MARKER URD 2 1/2" 3 NV25YBE-3 5000-3

LINE	ITEM	DESCRIPTION	NAME	MANUFACTURER	PART NUMBER
	BI 5574	MARKER URD PRESSURE SENSITIVE 4 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX BRADY		MARKER URD 2 1/2" 4 NV25YBE-4 5000-4
	BI 5575	MARKER URD PRESSURE SENSITIVE 5 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX BRADY		MARKER URD 2 1/2" 5 NV25YBE-5 5000-5
	BI 5576	MARKER URD PRESSURE SENSITIVE 689 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX PREMAX BRADY		MARKER URD 2 1/2" 6A9 NV25YBE-6 NV25YBE-6 PREMAX 5000-6 BRADY
	BI 5577	MARKER URD PRESSURE SENSITIVE 7 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX BRADY		MARKER URD 2 1/2" 7 NV25YBE-7 5000-7
	BI 5578	MARKER URD PRESSURE SENSITIVE B 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX BRADY		MARKER URD 2 1/2" B NV25YBE-B 5000-B
	BI 5579	MARKER URD PRESSURE SENSITIVE 1/2 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX PREMAX BRADY		MARKER URD 2 1/2" 1/2 NV25YBE-1/2 NV25YBE-1/2 PREMAX 5000-1/2 BRADY
	BI 5580	MARKER URD PRESSURE SENSITIVE POINT 1/2 INCH HIGH REFLECTIVE YELLOW ON 2 7/8 INCH HIGH BLACK BACKGROUND	PREMAX PREMAX BRADY		MARKER URD POINT NV25YBE- NV25YBE- PREMAX 5000- BRADY
	BI 5581	MARKER URD PRESSURE SENSITIVE A 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX PREMAX BRADY		MARKER URD 2 1/2" A NV25YBE-A NV25YBE-A PREMAX 5000-A BRADY
	BI 5582	MARKER URD PRESSURE SENSITIVE B 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX PREMAX BRADY		MARKER URD 2 1/2" B NV25YBE-B NV25YBE-B PREMAX 5000-B BRADY
	BI 5583	MARKER URD PRESSURE SENSITIVE C 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX PREMAX BRADY		MARKER URD 2 1/2" C NV25YBE-C NV25YBE-C PREMAX 5000-C BRADY
	BI 5584	MARKER URD PRESSURE SENSITIVE D 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX BRADY		MARKER URD 2 1/2" D NV25YBE-D 5000-D

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
81 5585	MARKER URO PRESSURE SENSITIVE 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX BRAOY	HARKER URO 2 1/2" HV25Y8E-E 5000-E
81 5586	HARKER URO PRESSURE SENSITIVE 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX	HARKER URO 2 1/2" HV25Y8E--
81 5587	HARKER URO PRESSURE SENSITIVE 2 1/2 INCH HIGH REFLECTIVE YELLOW ON BLACK OUTDOOR USE	PREMAX PREMAX	HARKER URO 2 1/2" NV25Y8E NV25Y8E PREMAX
81 5702	HASTIC PAOS INSULATING 600 VOLT PVC BACKING 4 1/2 X 6 1/2 INCHES	3M 3M	HASTIC PAOS 4 X 6 1/2 IN 2200 UPC 21296 2200-6 1/2 X 4 1/2
81 5800	CONTACT AID ALUMINUM ZLN 802	A B CHANCE BURNDY TELETYPE	CONTACT AID M1920-5 PEMA13-8 402.NO.11C
81 5806	CORD HEDPRENE COATED FOR TYING IN CABLE 1/8" (250' SPOOL)	ESSEX ESSEX	CORD HEDPRENE TYING EC-9-8M EC-9-8H ESSEX
82 0251	TAPE COLOR CODE 3/4" X 66' VINYL RED	3M 3M	TAPE RED 3/4 INCH SCOTCH 35 10810 35
82 0252	TAPE COLOR CODE 3/4" X 66' VINYL WHITE	3M 3M 3M	TAPE WHITE 3/4 INCH SCOTCH 35 10328 SCOTCH 35 10328 3M SCOTCH 35 10828 3M
82 0253	TAPE COLOR CODE 3/4" X 66' VINYL BLUE	3M 3M	TAPE BLUE 3/4 INCH SCOTCH 35 10836 35-BLUE-3/4X66FT
82 0254	TAPE COLOR CODE 3/4" X 66' VINYL ORANGE	3M 3M	TAPE ORANGE 3/4 INCH SCOTCH 35 10869 SCOTCH 35 10869 3M
82 0400	TAPE FRICTION 3/4 INCH X 60 FOOT ROLL	PLYMOUTH 3M 3M	TAPE FRICTION 3/4 X 60 1 XL PLYMOUTH 1755 BLACK 1755 3/4X82-1/2FT
82 0433	TAPE ELECTRICAL PLASTIC GENERAL PURPOSE (REFER TO STOCK CODES 82-0488 & 0489)	3M	TAPE ELECT PLASTIC 3/4 33+

LINE

MANUFACTURER

ITEM	DESCRIPTION	NAME	PART NUMBER
82 0488	TAPE ELECTRICAL VINYL HEAVY DUTY 1 INCH X 36 YARD ROLL	3M 3M	TAPE ELECT HEAVY 1 INCH 37 1X36YD 37 1X36YD 3M
82 0489	TAPE ELECTRICAL VINYL HEAVY DUTY 2 INCH X 36 YARD ROLL	3M 3M	TAPE ELECT HEAVY 2 INCH 37 2" X 36YD 37 2" X 36YD 3M
82 0500	TAPE E/FUSING SELF-FUSING SILICON RUBBER TAPE GOOD FOR 7200 VOLTS WITH ONE LAYER AND 19.9KV WITH TWO LAYERS.	HIOSUN GROUP INC HIOSUN GROUP INC	TAPE SELF FUSING RUBSIL E/FTP-2.5 G E/FTP-2.5 G HIOSUN
82 0510	TAPE ELECTRICAL SPLICING HI-VOLTAGE 3/4	3M	TAPE ELEC HV SPL 3/4 IN 23
82 0515	TAPE ELECTRICAL SPLICING HI-VOLTAGE 1 IN	3M	TAPE ELEC HV SPL 1 IN 130C 1" X 30'
82 0570	TAPE ELECT RUB/SIL HI-TEMP 1 INCH X 30 FEET	3M	TAPE EL R/S HI/TEMP 1IN 70
82 0600	TAPE ELECT SELF-FUSING SEMI-COND	3M	TAPE EL SF SEMI-COND 13
82 0630	TAPE ELECTRICAL SHIELDING KNOT TINNED COPPER 1 INCH X 15 FOOT ROLL	CABLE COMM CO 3M	TAPE EL SHIELD 1 IN CU SB1-15 24
82 0690	TAPE ELECTRIC ARC AND FIREPROOFING 3 INCH X 20 FOOT ROLL	3M	TAPE ARC & FIREPROOFING 77
82 0800	TAPE RUBBER MASTIC 2 INCH BY 10 FOOT ROLL	3M	TAPE RUBBER MASTIC 2IN 2228
82 0900	TAPE FIBER REINFORCED POLYESTER 12 MIL NON-WOVEN PACKED IN OIL 3/4 INCH BY 4 YDS		TAPE PDLYESTER3/4INX4YD
82 1013	PADLOCK SINGLE USE 1 INCH CIRCULAR #6 ALUMWELD SHACKLE ALUMINUM BODY 3/8 INCH SHEAR HEAD LOCK SCREW	FARGO UTILCO UTILCO	PADLOCK SINGLE USE AN GH307 FARGO PEL-1A PEL-1A UTILCO
82 1080	TAPE VARNISHED CANBRIC YELLOW 36 INCH WIDE, (1 ROLL = 75 FEET)		TAPE V C Y 36 IN WIDE

HBA10B-01		CENTRAL MAINE POWER COMPANY CONTRACTOR ITEM CATALOG		PAGE: 72
				DATE: 11/04/03
LINE				
ITEM	DESCRIPTION	NAME		PART NUMBER
82 1130	RIBBON, BRAZE ORANGE FOR WITNESSING STAKES 1 1/4 X 100FT (PREVIOUSLY 83-2254)	FORESTRY SUPP THOR THOR		RIBBON, BLAZE ORANGE 58045-ORANGE GLO FOREST SU 77-002 ORANGE TAPE 77-002 ORANGE TAPE THOR
82 5607	SIGN, 24" X 18" WHITE ON RED STEEL OR FIBERGLASS "CAUTION CAPACITORS WAIT 10 MINUTES AFTER DE-ENERGIZING BEFORE ATTACHING GROUND CLUSTER DO NOT WORK ON STACKS UNLESS PHASE WIRES ARE SHORTED & GROUNDED. DANGER CAPACITOR FRAMES ARE ALIVE" PER CMP SPECIFICATION OF 03/86	LEM BRADY LEM		SIGN CAUTION CAP STACKS CAUTION CAPACITORS CAUTION CAPACITORS CAUTION CAPACITORS BRADY CAUTION CAPACITORS LEM
82 5610	SIGN, 7 1/2" X 11", WHITE ON RED STEEL OR FIBERGLASS: "CAUTION DO NOT BYPASS REGULATOR UNLESS IT IS ON NEUTRAL POSITION AND MOTOR CONTROL IS CUT OUT" PER CMP SPECIFICATION OF 03/86	STONEHOUSE BRADY LEM		SIGN DO NOT BYPASS REG CAUTION DO NOT BY BRADY CAUTION DO NOT BY LEM
82 5619	SIGN 10X14 BLACK AND RED ON WHITE PLASTIC DANGER FIRE REGULATIONS DENAND THAT THIS SPACE BE CLEAR AT ALL TIMES	LEM BRADY LEM SETON		SIGN DANGER FIRE RED DANGER FIRE REG DANGER FIRE RED BRADY DANGER FIRE RED LEM 131K 10X14 BSR SETON
82 5620	SIGN, 10"X 14" BLACK & RED ON WHITE STEEL OR FIBERGLASS: DANGER HIGH VOLTAGE INSIDE KEEP OUT (WITH GRAPHIC SYMBOL) PER CMP SPEC OF 03/96	LEM LEM		SIGN DANGER HIGH VOLTAGE DANGER HI VOLT DANGER HI VOLT LEM
82 5621	SIGN DANGER HIGH VOLTAGE 10 INCHES BY 14 INCHES BLACK AND RED ON WHITE, STEEL OR FIBERGLASS: DANGER HIGH VOLTAGE ABOVE KEEP OFF (WITH GRAPHIC SYMBOL) PER CMP SPEC OF 03/96	LEM LEM		SIGN DANGER HIGH VOLTAGE DANGER HIGH VOLTAGE DANGER HIGH VOLTAGE LEM
82 5622	SIGN 10 X 14 BLACK ON ORANGE STEEL OR FIBERGLASS - WARNING, NO SMOKING, SPARKS OR OPEN FLAME	LEM LEM		SIGN WARNING NO SMOKING WARNING NO SMOKING WARNING NO SMOKING LEM
82 5625	SIGN 7X10 BLACK ON YELLOW STEEL (30 GA) DON'T TIE ALIVE	LEM BRADY LEM		SIGN DON'T TIE ALIVE DON'T TIE ALIVE DON'T TIE ALIVE BRADY DON'T TIE ALIVE LEM

HBA10B-01		CENTRAL MAINE POWER COMPANY CONTRACTOR ITEM CATALOG		PAGE: 73
				DATE: 11/04/03
LINE				
ITEM	DESCRIPTION	NAME		PART NUMBER
82 5650	SIGN 10X14 BLACK ON WHITE STEEL KEEP GATE CLEAR -- DO NOT PLACE COMBUSTIBLE MATERIALS IN THIS AREA (LOWER RIGHT CORNER) CMP CO (PUNCH ALL FOUR CORNERS)	BRADY		SIGN KEEP GATE CLEAR -- KEEP GATE CLEAR BRADY
82 5655	SIGN 6X6 RED ON WHITE CREDIT CARD STOCK 4 X 4 X 1 1/4 INCH STROKE RED CROSS	LEM LEM BRADY		SIGN LIFE SUPPORT EQUIP RED CROSS RED CROSS LEM RED CROSS BRADY
82 5688	SIGN 2 1/2 X 1 1/2 WHITE ON GREEN PLASTIC WITH HOLDER SWITCH MAT BELOW	CMP CO LEM LEM		SIGN SWITCH MAT BELOW STATIONS DEPT 825688 825688 LEM
82 5691	SIGN SWITCH NUMBER HOLDER TO HOLD UP TO 10 CHARACTERS VERTICAL	PREMAX PREMAX		SIGN SWITCH HOLDER 10V NVCS25-V10 NVCS25-V10 PREMAX
82 5692	SIGN SWITCH NUMBER HOLDER TO HOLD UP TO 10 CHARACTERS HORIZONTAL	PREMAX		SIGN SWITCH HOLDER 10 H NVCS 25 H-10 PREMAX
82 5693	SIGN SWITCH NUMBER HOLDER TO HOLD UP TO 4 CHARACTERS HORIZONTAL	PREMAX		SIGN SWITCH HOLDER 4 H NVCS25-H4
*** END OF REPORT ***				



