

900 METERING

11/19/2020

~	M	Metering Requirements - General, Commercial & Residential
~	M1	Primary Metering Installation - OH to UG - 7.2kV, Wye - 3-Element Meter
~	M1A	Primary Metering Installation - OH - 7.2kV, Wye - 3-Element Meter
~	M4	Primary Metering Installation - OH to UG - 7.2kV, 1Ø, 1-Element Meter
~	M4A	Primary Metering Installation - OH - 7.2kV, 1Ø, 1-Element Meter
~	M7	Underground Primary Metering Pad - 1Ø - 200 Amp
C	M8	Underground Primary Metering Pad - 3Ø - 200 and 600 Amp
~	M16	Secondary Metering Installation - Pole Mounted - 3Ø, 4-Wire
~	M17	Secondary Metering Installation - Pole Mounted - 1Ø, 3-Wire
~	M20	Pad & Assembly - Secondary Metering for Padmount Transformer
~	M23	D/I CT Metering at Padmount Transformer
~	M28	Recommended Layout for Temporary Electric Service - 120/240v - 3-Wire
~	M28A	Recommended Conductor Supports for Temporary Electric Service
~	MBCT	CT Meter Base Support for Padmount Transformer
~	UM1	Primary 3Ø Metering Enclosure
~	UMS4-36	Secondary 1Ø CT Metering Assemblies Residential

N New Standard
R Redrawn Standard
C Changed Standard
~ No Change

CLARK PUBLIC UTILITY

METERING REQUIREMENTS BASED ON EUSERC SPECIFICATIONS

TYPE OF SERVICE OR SOURCE VOLTAGES		SIZE	NUMBER OF TERMINALS	BYPASS PROVISION	TEST SWITCH	DEMAND METERING	REACTIVE METERING
SINGLE PHASE 120/240 VOLTS (Swimming pools over 35kw will be C.T.'d or 320 amp)	Commercial	200 amp	4	BLOCK BYPASS *	NO	20KW OR GREATER	NO
	Residential	200 amp	4	NO	NO	NO	NO
		320 amp	4	BLOCK BYPASS	NO	COMMERCIAL ONLY	NO
	Commercial	C.T.	6	NO	YES	20KW OR GREATER	NO
	Residential	C.T.	6	NO	NO	NO	NO
NETWORK 120/208V (2 LEGS OF Y)	Commercial	200 amp	5	SAFETY SOCKET	NO	NO	NO
	Residential	200 amp	5	NO	NO	NO	NO
	Commercial	C.T.	8	NO	YES	NO	NO
4 WIRE WYE 120/208 VOLTS		200 amp	7	SAFETY SOCKET	NO	YES	NO
		C.T.	13	NO	YES	YES	YES *
4 WIRE DELTA 240/120 VOLTS		200 amp	7	SAFETY SOCKET	NO	YES	NO
		C.T.	13	NO	YES	YES	YES *
3 WIRE 3Ø DELTA 240V (Existing service only. New services, current trans. Will be 4 wire 240/120)		200 amp	5	SAFETY SOCKET	NO	YES	NO
		C.T.	8	NO	YES	YES	YES *
3 WIRE 3Ø DELTA 480V (Existing service only. New services, current trans. Will be 4 wire 240/480)		200 amp	5	SAFETY SOCKET	NO	YES	NO
		(Contact district about type of socket and whether or not current transformers and reactive metering will be required before making any 480 volt installations)					
4 WIRE 3Ø 277/480 VOLTS		200 amp B/base	7	SAFETY SOCKET	NO	YES	NO
		C.T. & V.T.	13	NO	YES	YES	YES *
		Prim. Met. 7200/120 P.T. & C.T.	13	NO	YES	YES	YES *

C.T. - Current Transformer

V.T. - Voltage Transformer

Rev 2 - Changed blocks marked with a *.



CONSTRUCTION STANDARDS

METERING REQUIREMENTS GENERAL

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REVISIONS

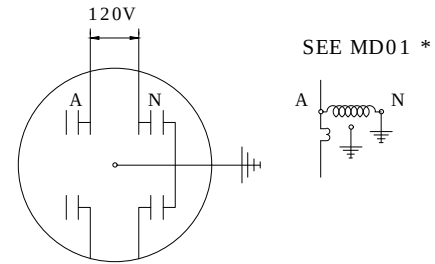
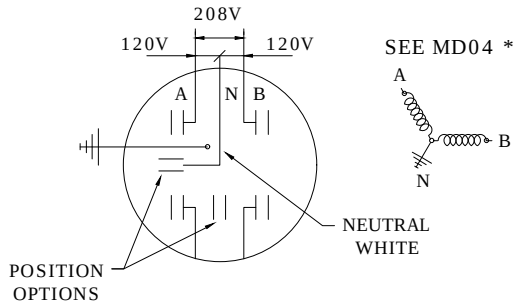
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1	8/2/05	LB	AH
2	1/13/10	CM	AH

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DATE: 2/22/00		900

120/208V
1 PHASE NETWORK

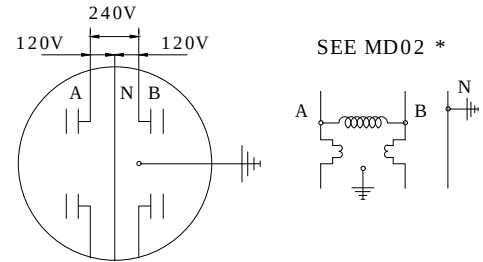
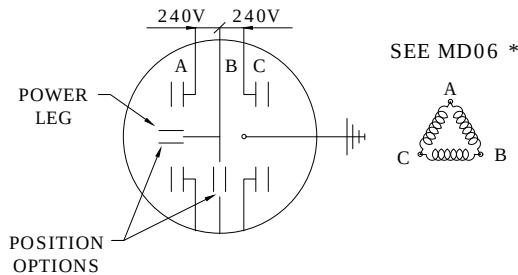
SELF CONTAINED

120V 2
WIRE



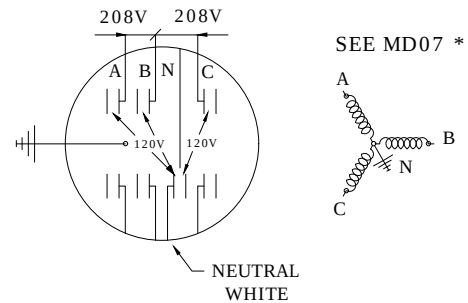
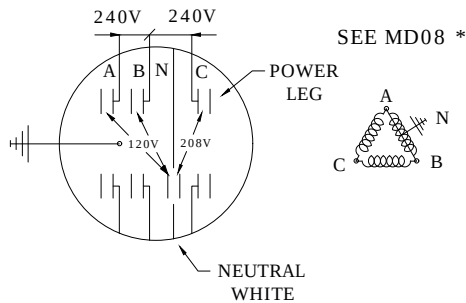
3 PHASE
3 WIRE 240V

SINGLE PHASE
3 WIRE 120/240V



3 PHASE 4 WIRE
DELTA 240/120V

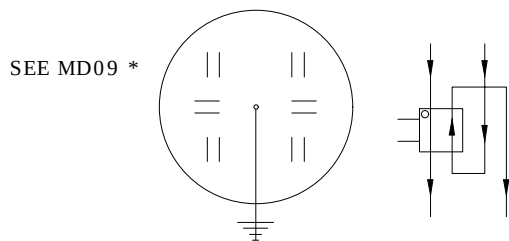
3 PHASE 4 WIRE
WYE 120/208V
(or 277/480V)



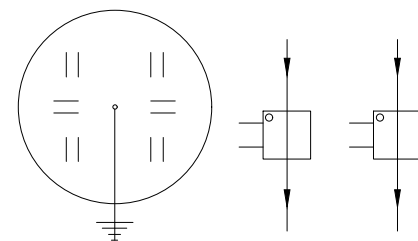
3 WIRE SERVICE USING ONE
C.T. 6 TERMINAL SOCKET

C.T. RATED

3 WIRE SINGLE SERVICE USING 2
C.T.'s 6 TERMINAL SOCKET



SEE MD11 *
MD11A



LEGEND

~ CURRENT COIL
~ VOLTAGE COIL

ALL METER SOCKETS TO BE GROUNDED

* REV. 1 - Added Metering Diagram Numbers.



CONSTRUCTION STANDARDS
METERING REQUIREMENTS
GENERAL

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REVISIONS			
REV	DATE	ENGR	OPS
0	8/20/02		
1	8/2/05	LB	AH
REDRAWN IN CAD			
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DATE:	2/22/00	900	

Clark Public Utilities Metering Requirements
Commercial Applications

Source Voltage	Ampacity	Reference Circle AW Part Number	Meter Diagram Numbers	Number of Terminals	Bypass Provision Required	Test Switch Required
120 Volts 1Ø 2 Wire	0-100 Amps	U121314*	MD01	4	Yes	No
120/240 Volt 1Ø 3 Wire	0-200 Amps	U264	MD02	4	Yes	No
120/240 Volt 1Ø 3 Wire	0-400 Amps	324N, 324NF	MD03	4	Yes	No
120/240 Volt 1Ø 3 Wire	Over 200 Amps	12146	MD10 MD11	6	No	Yes
240/480 Volt 1Ø 3 Wire	0-200 Amps	124TB	MD02 MD05 Dmd	4	Yes	No
240/480 Volt 1Ø 3 Wire	Over 200 Amps	12146	MD10 MD11	6	No	Yes
120/208 Volt 3 Wire Network	0-200 Amps	125TB	MD04	5	Yes	No
120/208 Volt 3 Wire Network	Over 200 Amps	12148	MD12	8	No	Yes
240 Volt 3Ø 3 Wire Delta	0-200 Amps	125TB	MD06	5	Yes	No
120/208 Volt 3Ø 4 Wire Wye	0-200 Amps	127TB	MD07	7	Yes	No
120/208 Volt 3Ø 4 Wire Wye	Over 200 Amps	121413	MD13	13	No	Yes
240/120 Volt 3Ø 4 Wire Delta	0-200 Amps	127TB	MD08	7	Yes	No
240/120 Volt 3Ø 4 Wire Delta	Over 200 Amps	121413	MD14	13	No	Yes
277/480 Volt 3Ø 4 Wire Wye	0-200 Amps	127TB	MD07	7	Yes	No
277/480 Volt 3Ø 4 Wire Wye	Over 200 Amps	121413	MD13	13	No	Yes
480 Volt 3Ø 3 Wire Delta	0-200 Amps	125TB	MD06	5	Yes	No
480 Volt 3Ø 3 Wire Delta	Over 200 Amps	12148	MD12	8	No	Yes

Circle AW part numbers are for cross reference only.

All Commercial current transformer cabinets shall have hinged doors.

CURRENT TRANSFORMER CABINET DIMENSIONS, CT MOUNTING BASE

Amperes	Dimensions	Circle AW or Equivalent
200 Amps- 400 Amps 1Ø	24" X 30" X 11"	6019-HAL (LUG LUG)
401 Amps- 800 Amps 1Ø	30" X 36" X 11"	6019-HEL (LUG LUG)
200 Amps- 400 Amps 3Ø	30" X 36" X 11"	6019-HAL or 6067-HAL
401 Amps- 800 Amps 3Ø	36" X 48" X 11"	6019-HEL or 6067-HEEL

See EUSERC Spec – 328B & 329B

Over 800 Amps Switchgear Required

Maximum wire size 600 MCM per lug or parallel per EUSERC SPEC. & UL label

Rev 4: Changed blocks with a *.



CONSTRUCTION STANDARDS
METERING REQUIREMENTS
COMMERCIAL APPLICATION

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1	8/2/05	LB	AH
2	12/19/07	LB	AH
3	1/13/10	CM	AH
4	6/18/10	KJP	

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Clark Public Utilities Metering Requirements
Residential Applications

Source Voltage	Ampacity	Reference Circle AW Part Number	Meter Diagram Numbers	Number of Terminals	Bypass Provision Required	Test Switch Required
120 Volts 1Ø 2 Wire	0-100 Amps	011	MD01	4	No	No
120/240 Volt 1Ø 3 Wire	0-200 Amps	204, U204	MD02	4	No	No
120/240 Volt 1Ø 3 Wire	0-400 Amps	324N, 324NF	MD03	4	Yes	No
120/240 Volt 1Ø 3 Wire	Over 400 Amps	U011, 011, 925 or 926	MD09 MD11A	5 or 6	No	No

Circle AW part numbers are for cross reference only.

CURRENT TRANSFORMER CABINET DIMENSIONS, CT MOUNTING BASE

Amperes	Dimensions	Circle AW or Equivalent
200 Amps- 400 Amps 1Ø Window	24"h X 32"w X 9"d	PED
*401 Amps- 800 Amps 1Ø Buss Mt.	24"h X 30"w X 11"d hinged door	6019-HAL (LUG LUG)
200 Amps- 400 Amps 3Ø Window	30"h X 36"w X 11"d	PED
*401 Amps- 800 Amps 3Ø Buss Mt.	36"h X 48"w X 11"d hinged door	6019-HEL (LUG-LUG)

* Optional

Notes: 1. CT Metering for 200- 400 Amp panels required pre-approval from Clark Public Utilities
2. All CT cans shall be mounted outside.

Rev 2: Add optional CT cabinet dimensions and notes.



CONSTRUCTION STANDARDS
METERING REQUIREMENTS
RESIDENTIAL

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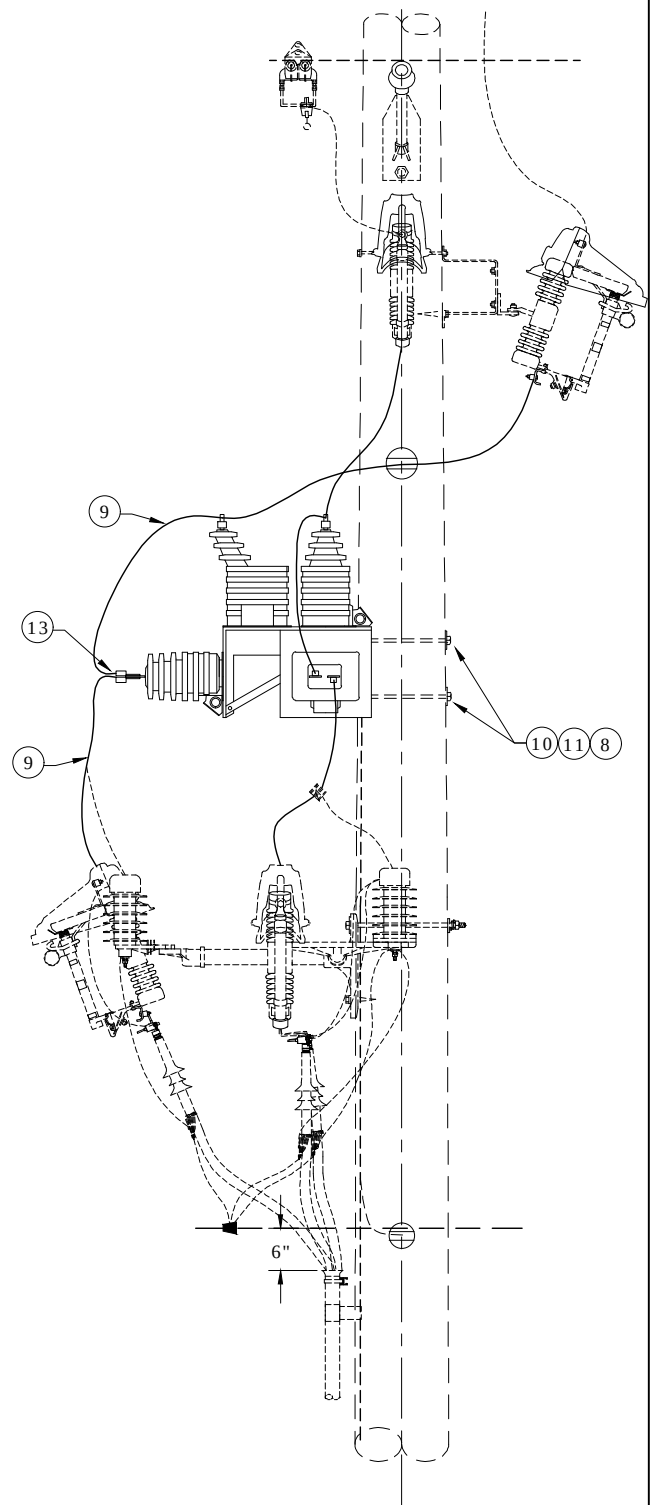
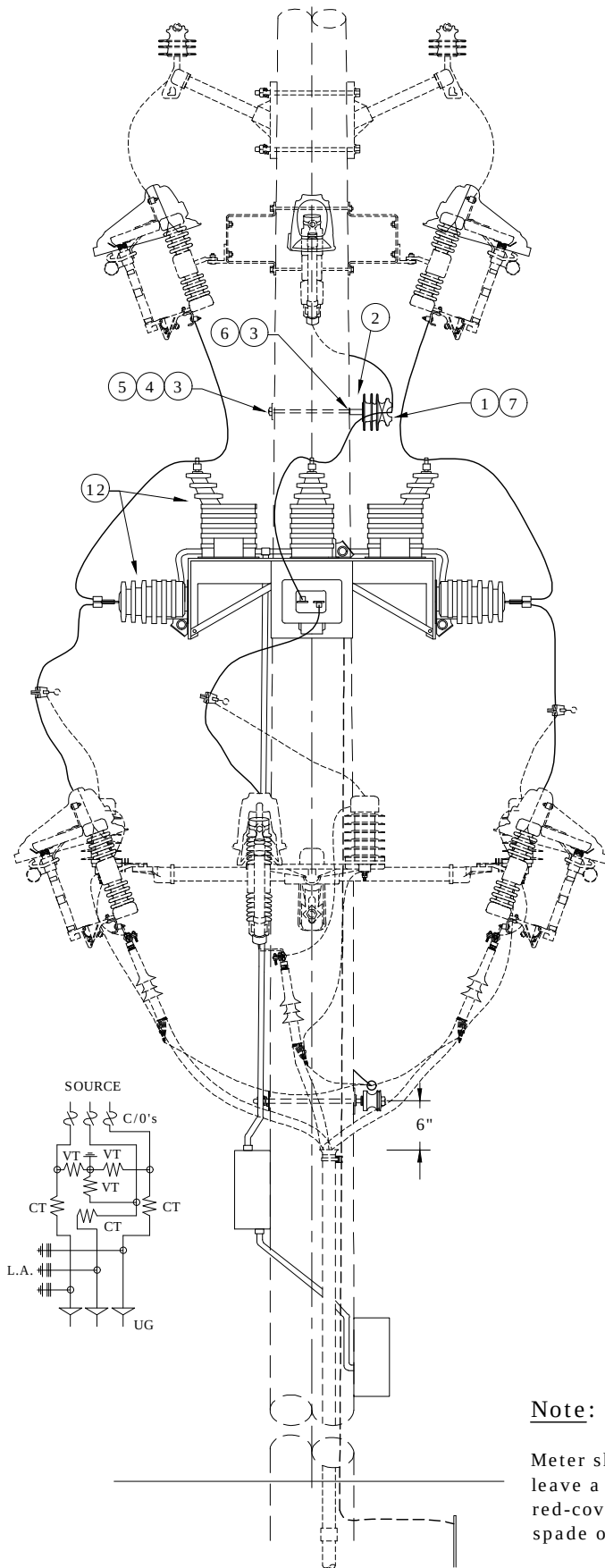
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△ R	DATE	ENGR	OPS
0	8/20/02		
1	8/2/05	LB	AH
2	12/19/07	LB	AH

△ 0 REDRAWN IN CAD

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Note:

Meter shop will pre-wire the rack with #4 SD for the grounds and leave a 10' coil for line crew to connect to system neutral, and red-covered # 2Cu 7-str with 10' coil left on source-side and 2-bolt spade on load side.

Rev 2: Changed to single-bushing PTs and updated drawing & material list.



CONSTRUCTION STANDARDS

PRIMARY METERING INSTALLATION
OVERHEAD TO UNDERGROUND
7.2KV, WYE - 3 ELEMENT METER

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M1

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M1

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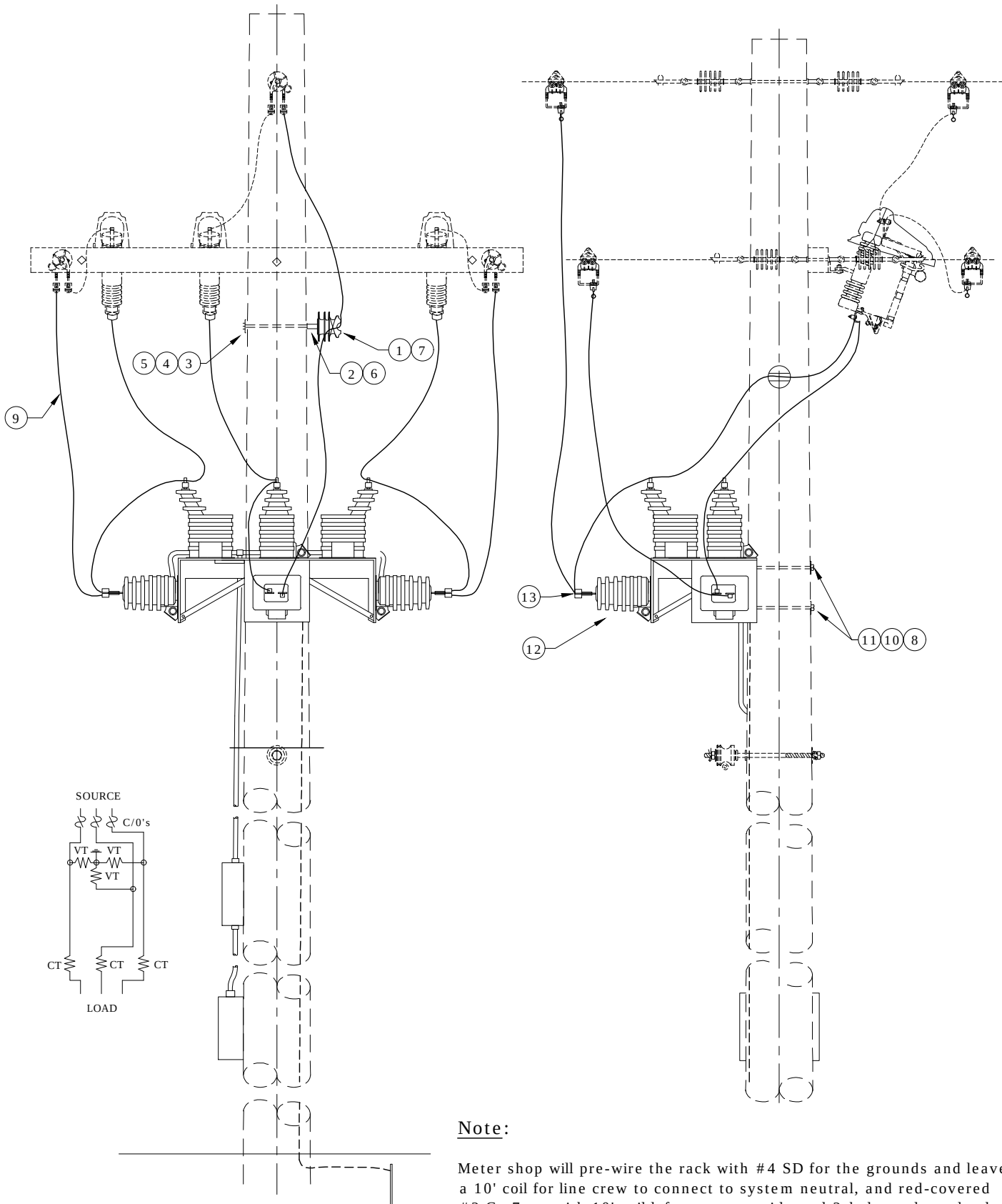
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2	8/11/10	CM	AH
△			
APP:	ELM	SECTION	
DATE:	1/31/80	900	

Rev 2: Changed to single-bushing PTs and updated drawing & material list.

ITEM NO.	DESCRIPTION	PR20TREE	
		QTY.	S/N
1	Insulation Pin C Neck	1	1968
2	Pin Adapter	1	959
3	Washer, Curved, Square, Cast, 3" x 3" x 3/8" thick x 13/16" hole	2	1392
4	Bolt, Double, Arm, 5/8" x 16"	1	81
5	Washer, Lock, Spring, Double Coil, Galv., 5/8"	1	2217
6	Washer, Lock, Spring, Single Coil, Galv., 5/8"	2	1403
7	Wire, Tie, AL Annealed #4 SD	10	3012

ITEM NO.	DESCRIPTION	ADDITIONAL MATERIAL	
		QTY.	S/N
8	Bolt, Machine 5/8" x 12" Galv	2	155
9	Cond, Wire, Cu 1/C #2AWG 7Str 600V Red	60	2513
10	Washer, Curved, Square, Cast, 3" x 3" x 3/8" thick x 13/16" hole	2	1392
11	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
12	MM1 from Meter Dept., CT/VT Assembly w/ Rack	1	N/S
13	Connector, Compression Lug, #2 Cu	3	427

		CONSTRUCTION STANDARDS PRIMARY METERING INSTALLATION OVERHEAD TO UNDERGROUND 7.2KV, WYE - 3 ELEMENT METER		REVISIONS			
				DATE	ENGR	OPS	
				3/02	Redrawn	In Cad	
				8/11/10	CM	AH	
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Note:

Meter shop will pre-wire the rack with #4 SD for the grounds and leave a 10' coil for line crew to connect to system neutral, and red-covered #2 Cu 7-str with 10' coil left on source-side and 2-bolt spade on load side.

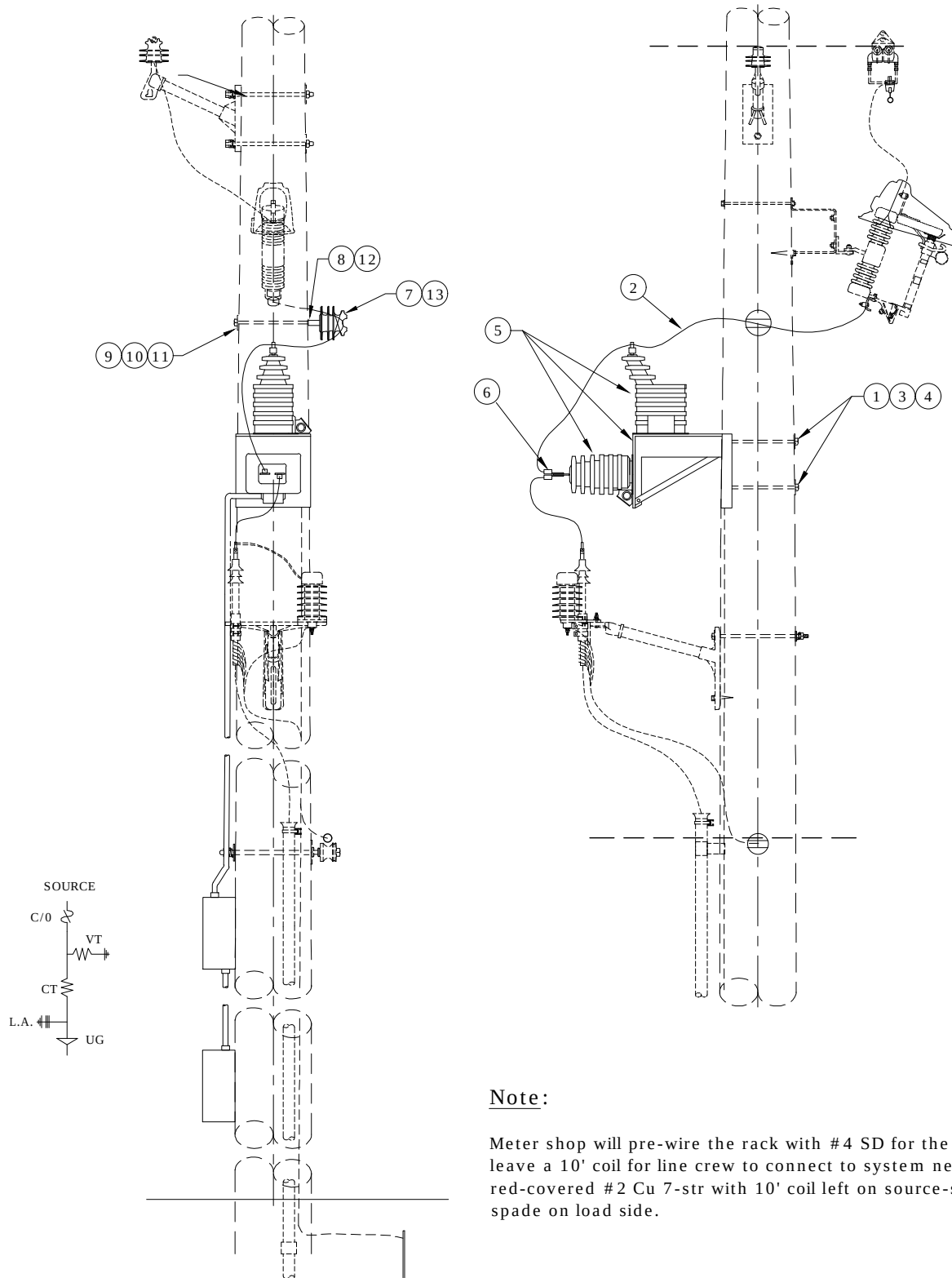
Rev 2: Changed to single-bushing PTs, removed arresters, and updated drawing & material list.

Rev 2: Changed to single-bushing PTs, removed arresters, and updated drawing & material list.

ITEM NO.	DESCRIPTION	PR20TREE	
		QTY.	S/N
1	Insulation Pin C Neck	1	1968
2	Pin, Adapter	1	959
3	Washer, Curved, Square, Cast, 3" x 3" x 3/8" thick x 13/16" hole	2	1392
4	Bolt, Double Arm, 5/8" x 16"	1	81
5	Washer, Lock, Spring, Double Coil, Galv., 5/8"	1	2217
6	Washer, Lock, Spring, Single Coil, Galv., 5/8"	2	1403
7	Wire, Tie, AL Annealed #4 SD	10	3012

ITEM NO.	DESCRIPTION	Additional Material	
		QTY.	S/N
8	Bolt, Machine 5/8" x 12" Galv	2	155
9	Cond, Wire, Cu 1/C #2AWG 7Str 600V Red	60	2513
10	Washer, Curved, Square, Cast, 3" x 3" x 3/8" thick x 13/16" hole	2	1392
11	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
12	MM1A from Meter Dept., CT/VT Assembly w/ Rack	1	N/S
13	Connector, Compression Lug, #2 Cu	3	427

		CONSTRUCTION STANDARDS PRIMARY METERING INSTALLATION OVERHEAD CONSTRUCTION 7.2KV, WYE - 3 ELEMENT METER		REVISIONS			
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				1	3/02	Redrawn	In Cad
				2	8/11/10	CM	AH
							
				APP:	ELM	SECTION	
				DATE:	1/31/80	900	



Note:

Meter shop will pre-wire the rack with #4 SD for the grounds and leave a 10' coil for line crew to connect to system neutral, and red-covered #2 Cu 7-str with 10' coil left on source-side and 2-bolt spade on load side.

Rev 2: Changed to single-bushing PTs and drawing & material corrections.



CONSTRUCTION STANDARDS

PRIMARY METERING INSTALLATION
OVERHEAD TO UNDERGROUND
7.2KV, 1 PHASE, 1 ELEMENT METER

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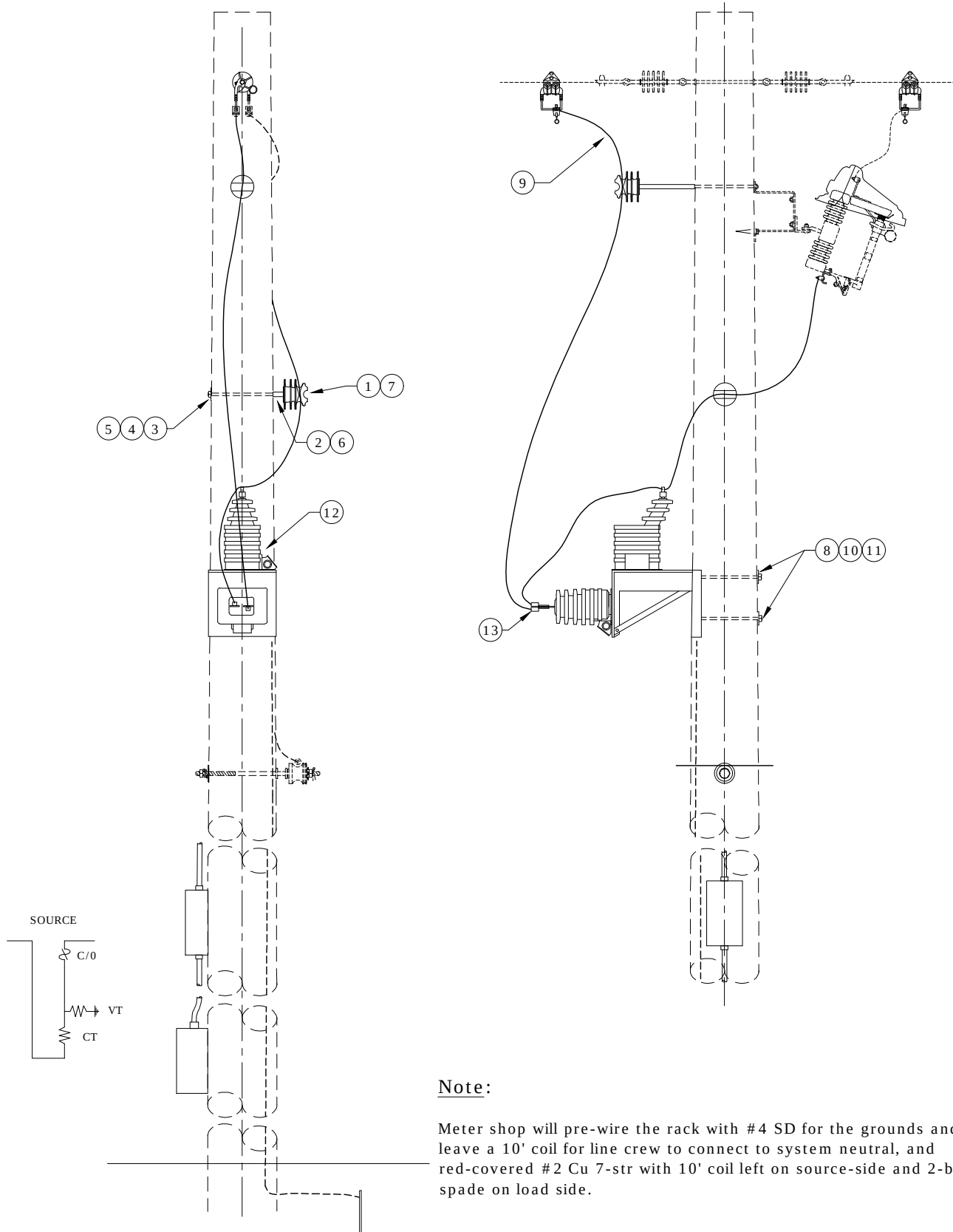
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2	8/11/10	CM	AH
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Rev 2: Changed to single-bushing PTs and drawing & material corrections.

ITEM NO.	DESCRIPTION	ADDITIONAL MATERIAL	
		QTY.	S/N
1	Bolt, Machine 5/8" x 12" Galv	2	155
2	Cond, Wire, Cu 1/C #2 7Str 600V Red	20	2513
3	Washer, Curved, Square, Cast, 3" x 3" x 3/8" thick x 13/16" hole	2	1392
4	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
5	MM1 from Meter Dept., CT/VT Assembly w/ Rack	1	N/S
6	Connector, Compression Lug, #2 Cu	1	427

ITEM NO.	DESCRIPTION	PR20TREE	
		QTY.	S/N
7	Insulation Pin C Neck	1	1968
8	Pin Adapter	1	959
9	Washer, Curved, Square, Cast, 3" x 3" x 3/8" thick x 13/16" hole	2	1392
10	Bolt, Double, Arm, 5/8" x 16"	1	81
11	Washer, Lock, Spring, Double Coil, Galv., 5/8"	1	2217
12	Washer, Lock, Spring, Single Coil, Galv., 5/8"	2	1403
13	Wire, Tie, AL Annealed #4 SD	10	3012

		CONSTRUCTION STANDARDS PRIMARY METERING INSTALLATION OVERHEAD TO UNDERGROUND 7.2KV, 1 PHASE, 1 ELEMENT METER		REVISIONS			
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				2	8/11/10	CM	AH
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Rev 2: Changed to single-bushing PTs, removed lightning arrester and drawing & material corrections.



CONSTRUCTION STANDARDS

PRIMARY METERING INSTALLATION
OVERHEAD CONSTRUCTION
7.2KV, 1 PHASE, 1 ELEMENT METER

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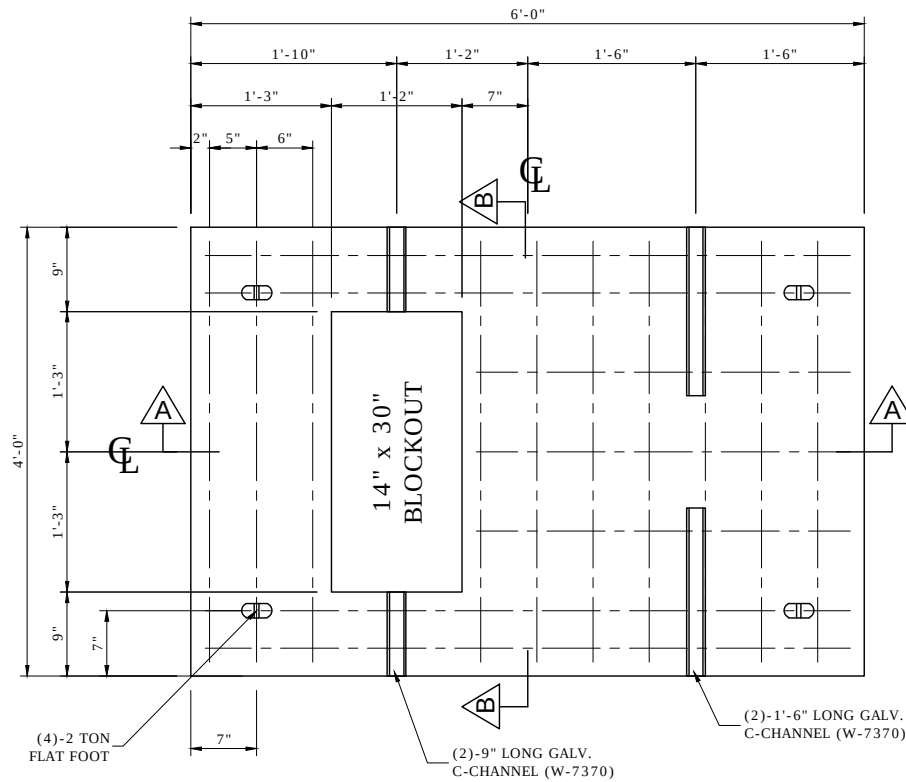
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Rev 2: Changed to single-bushing PTs, removed lightning arrester and drawing & material corrections.

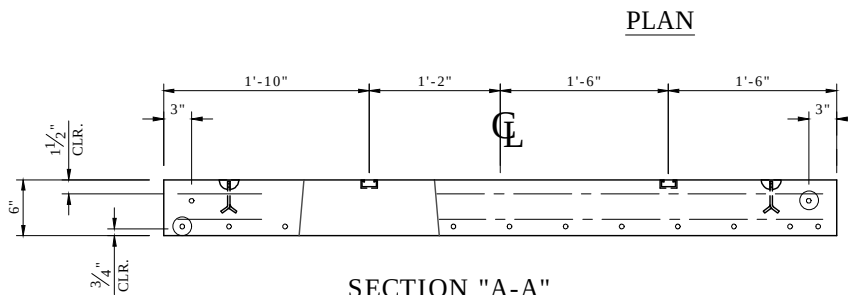
ITEM NO.	DESCRIPTION	PR20TREE	
		QTY.	S/N
1	Insulation Pin C Neck	1	1968
2	Pin, Adapter	1	959
3	Washer, Curved, Square, Cast, 3" x 3" x 3/8" thick x 13/16" hole	2	1392
4	Bolt, Double Arm, 5/8" x 16"	1	81
5	Washer, Lock, Spring, Double Coil, Galv., 5/8"	1	2217
6	Washer, Lock, Spring, Single Coil, Galv., 5/8"	2	1403
7	Wire, Tie, AL Annealed #4 SD	10	3012

ITEM NO.	DESCRIPTION	Additional Material	
		QTY.	S/N
8	Bolt, Machine 5/8" x 12" Galv	2	155
9	Cond, Wire, Cu 1/C #2AWG 7Str 600V Red	20	2513
10	Washer, Curved, Square, Cast, 3" x 3" x 3/8" thick x 13/16" hole	2	1392
11	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
12	MM1A from Meter Dept., CT/VT Assembly w/ Rack	1	N/S
13	Connector, Compression Lug, #2 Cu	1	427

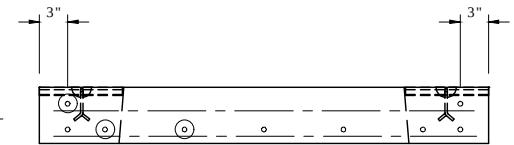
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			DATE	ENGR	OPS
			3/02	Redrawn	In Cad
		2	8/11/10	CM	AH
					
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PLAN



SECTION "A-A"



SECTION "B-B"

CONCRETE:
VOL. = VOLUME
WT. = WEIGHT

BILL OF MATERIAL				
PART	DESCRIPTION	QTY.	SIZE	TOTAL WT. LBS.
1	# 6 GR. 60	9	6'-9"x STR.	91
2	# 6 GR. 60	2	6'-9"x STR.	20
2A	# 6 GR. 60	5	4'-11"x STR.	37
3	# 4 GR. 60	2	6'-9"x STR. TOP	9
4	# 4 GR. 60	2	6'-9"x STR. TOP	9
	LIFT ANCHOR	4	2 TON SPREAD	
	C-CHANNEL(W-7370)	2	8" LONG	
	C-CHANNEL(W-7370)	2	1'-6" LONG	

CONCRETE PAD DETAILS FOR 1Ø 200 AMP UNDERGROUND PRIMARY METERING ENCLOSURE

1. ALL CONCRETE SHALL BE 2500 PSI AND HAVE A SLUMP OF 4" TO 6".
2. REINFORCING SHALL CONFORM TO ASTM DESIGNATION A15 AND A305.
3. TROWEL SMOOTH SURFACES AND BRUSH FINISH. ROUND ALL EDGES.

GENERAL NOTES:

1. UTILITY VAULT PAD #4872SLB6-1430CLARK

Rev 4: New pad dimensions for 200 amp 1Ø underground metering enclosure



CONSTRUCTION STANDARDS

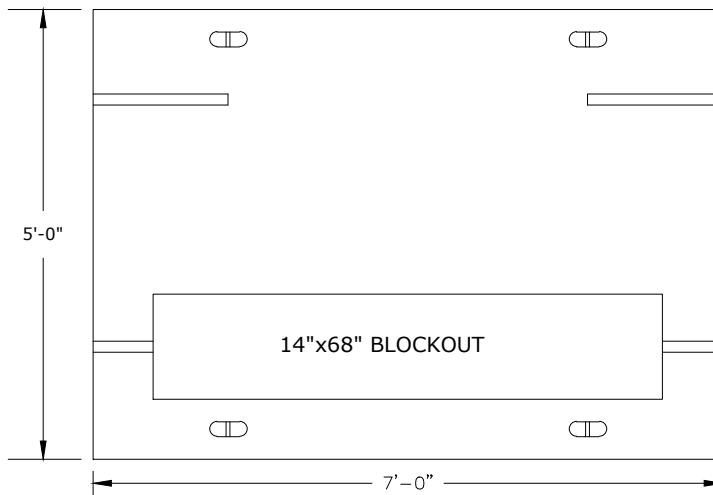
UNDERGROUND PRIMARY METERING PAD SINGLE PHASE 200 AMP

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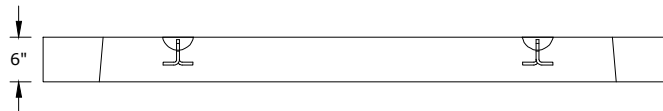
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2	7/15/02	JEH	TR
3	8/2/05	LB	AH
4	12/19/07	LB	AH
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TOP VIEW



FRONT VIEW

1. All concrete shall be 2500 PSI and have a slump of 4" to 6".
2. Reinforcing shall conform to ASTM designation A15 and A305.
3. Trowel smooth surfaces and brush finish. Round all edges.

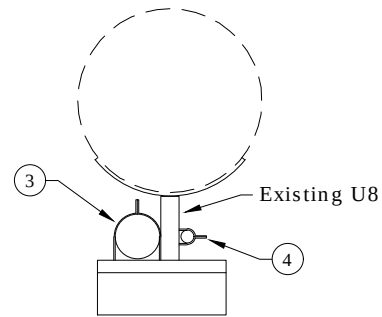
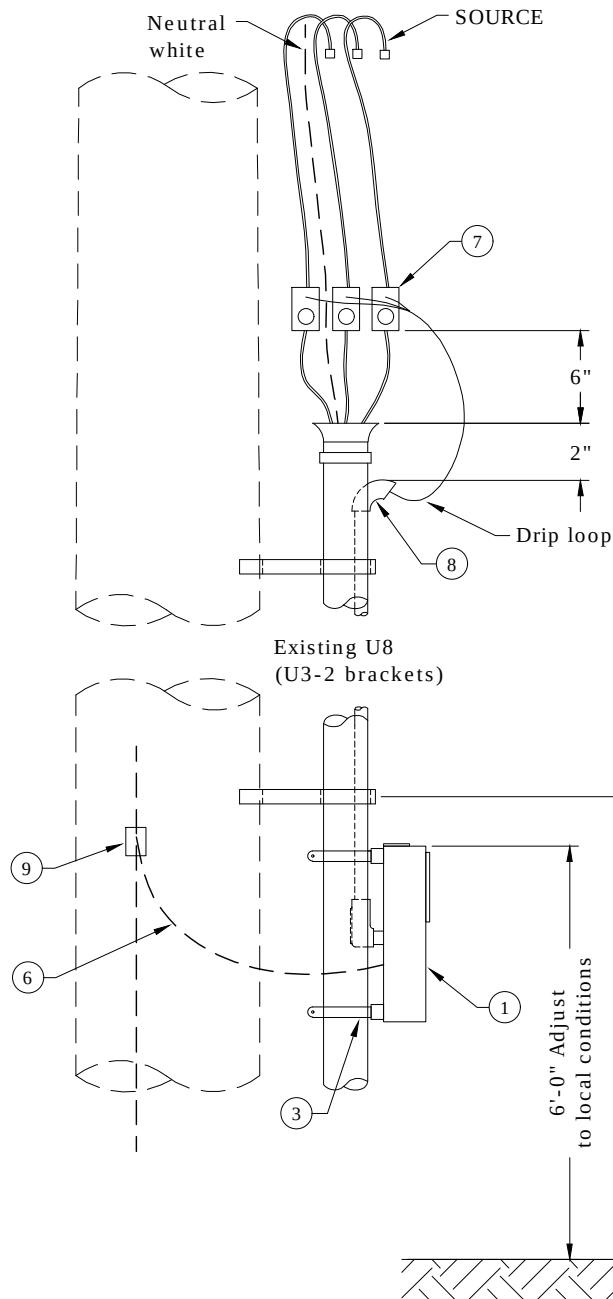
GENERAL NOTES:

1. Pad = 2,130 lb
2. Oldcastle pad #6084SLB6-1468-Clark.
3. Use template for conduit placement.

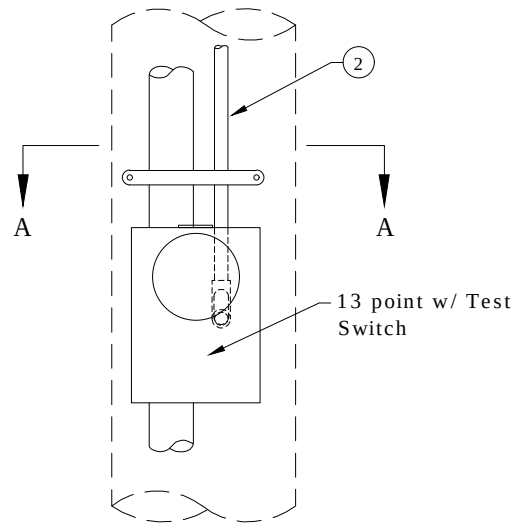
Rev 3: Changed to lighter (2130 vs 4769 lb) and smaller pad

ITEM NO.	DESCRIPTION	M8	
		QTY	S/N
1	Pad, Primary Metering Module, Concrete, 5' x 7' w/ 14" x 68" Blockout	1	2332

Clark Public Utilities 	CONSTRUCTION STANDARDS UNDERGROUND PRIMARY METERING PAD THREE PHASE 200 AND 600 AMP		REVISIONS						
			R	DATE	ENGR	OPS			
			1	6/18/10	KJP				
			2	12/21/14	KJP				
			3	11/19/20	CM	GM			
PAGE: 1 of 1		M8		CAD FILE: M8		APP: LB/AH		SECTION	
						DATE: 12/19/07		900	



SECTION AA



R2 - Minor drawing changes

ITEM NO.	DESCRIPTION	M16	
		QTY.	S/N
1	Meter base, Superior, w/ channel 1 1/2" x 1 1/2", from Meter Dept.	1	MM1
2	LB, from Meter Dept.	1	MM1
3	Strap, Pipe 3" HW	2	1243
4	Strap, Pipe 1" HW	2	1239
5	Conduit, Schedule 80 PVC 1" x 10'	20	2482
6	Conductor, BSDC 4SLD 1C	10	376
7	Transformer, current, from Meter Dept.	3	MM1
8	Weatherhead 1", from Meter Dept.	1	MM1
9	Connector, crimpet Cu 4/4 - 6/6	1	452



CONSTRUCTION STANDARDS

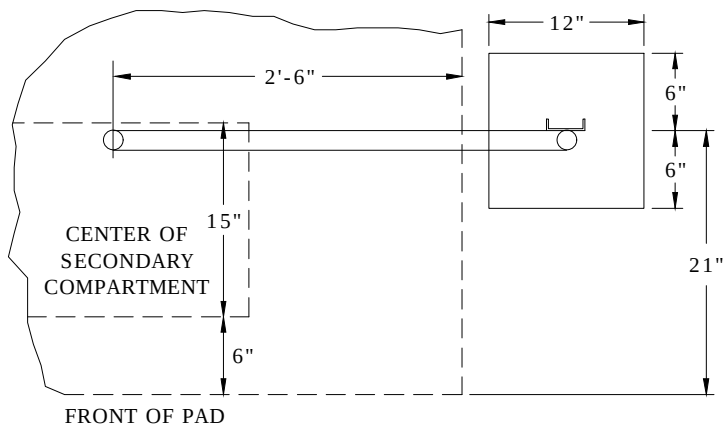
SECONDARY METERING INSTALLATION POLE MOUNTED - 3 PHASE, 4 WIRE

PAGE:
1 of 1

M16

CAD FILE:
M16

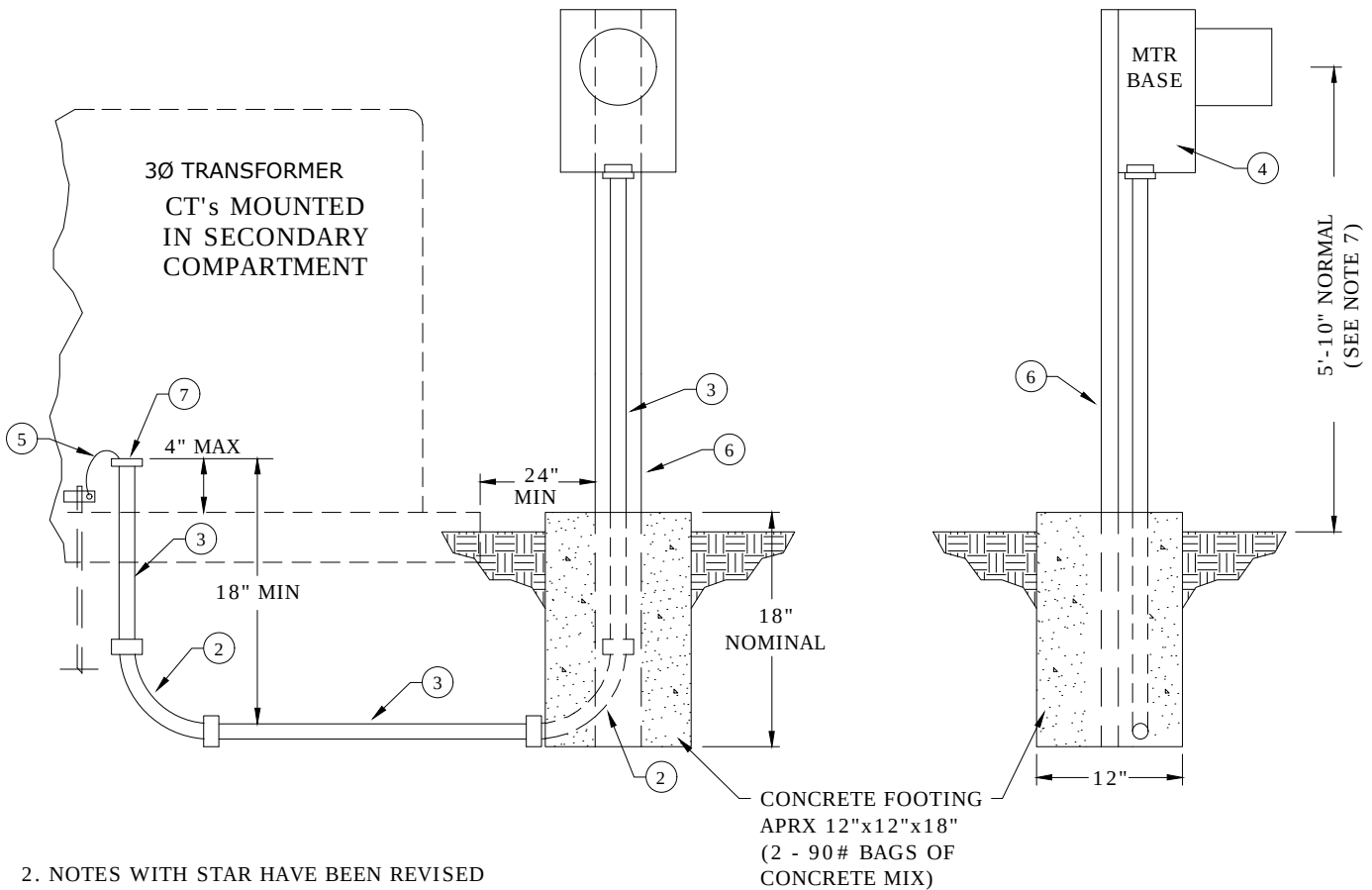
REVISIONS			
DATE	ENGR	OPS	
3/02	Redrawn	In Cad	
7/15/02	JEH	TR	
APP: ELM			
DATE: 1/31/80			SECTION 900



PLAN VIEW
TRANSFORMER PAD & METER FOOTING

Notes:

1. CIRCLE AW 121413 OR EQUIVALENT.
METER BASE, 13 POINT, W/SPACE
FOR TEST SWITCH.
2. CT's WILL BE FURNISHED BY CPU. *
3. CUSTOMER WILL INSTALL ASSEMBLY WHEN
TRANSFORMER & PAD ARE INSTALLED.
4. CUSTOMER TO POUR CONCRETE FOOTING FOR
METER.
5. MAY BE REDUCED TO 4' PROVIDED NOT LESS
THAN FLUSH WITH TOP OF TRANSFORMER.
6. THIS INSTALLATION SHALL BE USED ONLY
WHEN IT IS IMPRACTICAL TO INSTALL THE
METER ON THE BUILDING AND ONLY AFTER
DISTRICT APPROVAL.



2. NOTES WITH STAR HAVE BEEN REVISED
1. REMOVED CT CAN

ITEM NO.	DESCRIPTION	M20	
		QTY.	S/N
1	Locknut 1"	3	---
2	ELL-90° Cond. 1" Rigid or Sch. 80 PVC	2	---
3	Conduit 1" Rigid or Sch. 80 PVC	Ft.	---
4	Meter Base W/ Test Block - See Note 1	1	---
5	Ground Wire #6 Cu	Ft.	---
6	Channel Support 3" x 8" x 3/8", 5'6"	1	---
7	Bushing Conduit Grounding	4	---



CONSTRUCTION STANDARDS

PAD & ASSEMBLY
SECONDARY METERING
FOR PADMOUNT TRANSFORMER

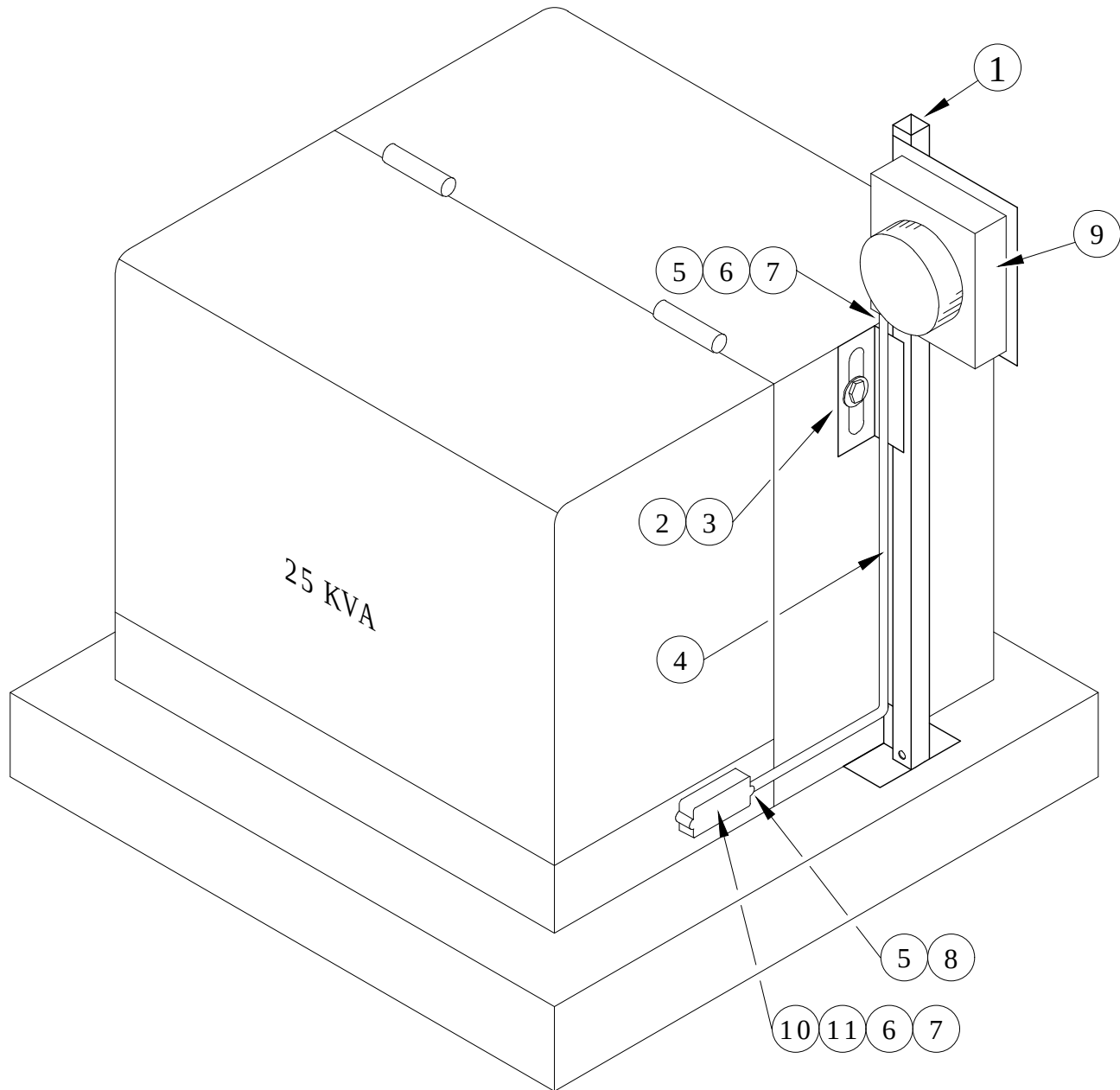
PAGE:
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M20

CAD FILE:
M20

REVISIONS

REV	DATE	ENGR	OPS
1	2/22/00	HWH	MA
2	8/1/00		
1 APP: DATE: 1/31/80			
			SECTION 900



* M.D.S. MEANS METER DEPARTMENT STOCK

ITEM NO.	DESCRIPTION	M23	
		QTY.	S/N
1	CT METER BASE SUPPORT DRAWING MBCT	1	M.D.S. *
2	MACHINE BOLT 5/8" X 1"	1	138
3	WASHER, FLAT, ROUND, GALV, 5/8"	1	1395
4	CONDUIT, PVC, SCH. 40, 3/4"	43"	1564
5	ADAPTER, PVC, MALE, 3/4"	1	M.D.S. *
6	BUSHING, INSULATED, 3/4"	1	2027
7	LOCKNUT, 3/4"	2	M.D.S. *
8	CONDULET, L.B., 3/4"	10'	M.D.S. *
9	METER BASE, 6, TERMINAL	1	M.D.S. *
10	REDUCER, 3/4" X 2"	1	M.D.S. *
11	NIPPLE, 3/4", CLOSE	1	M.D.S. *



CONSTRUCTION STANDARDS

DISTRICT INSTALLED
CT METERING AT PADMOUNT
TRANSFORMER

PAGE:
1 of 1

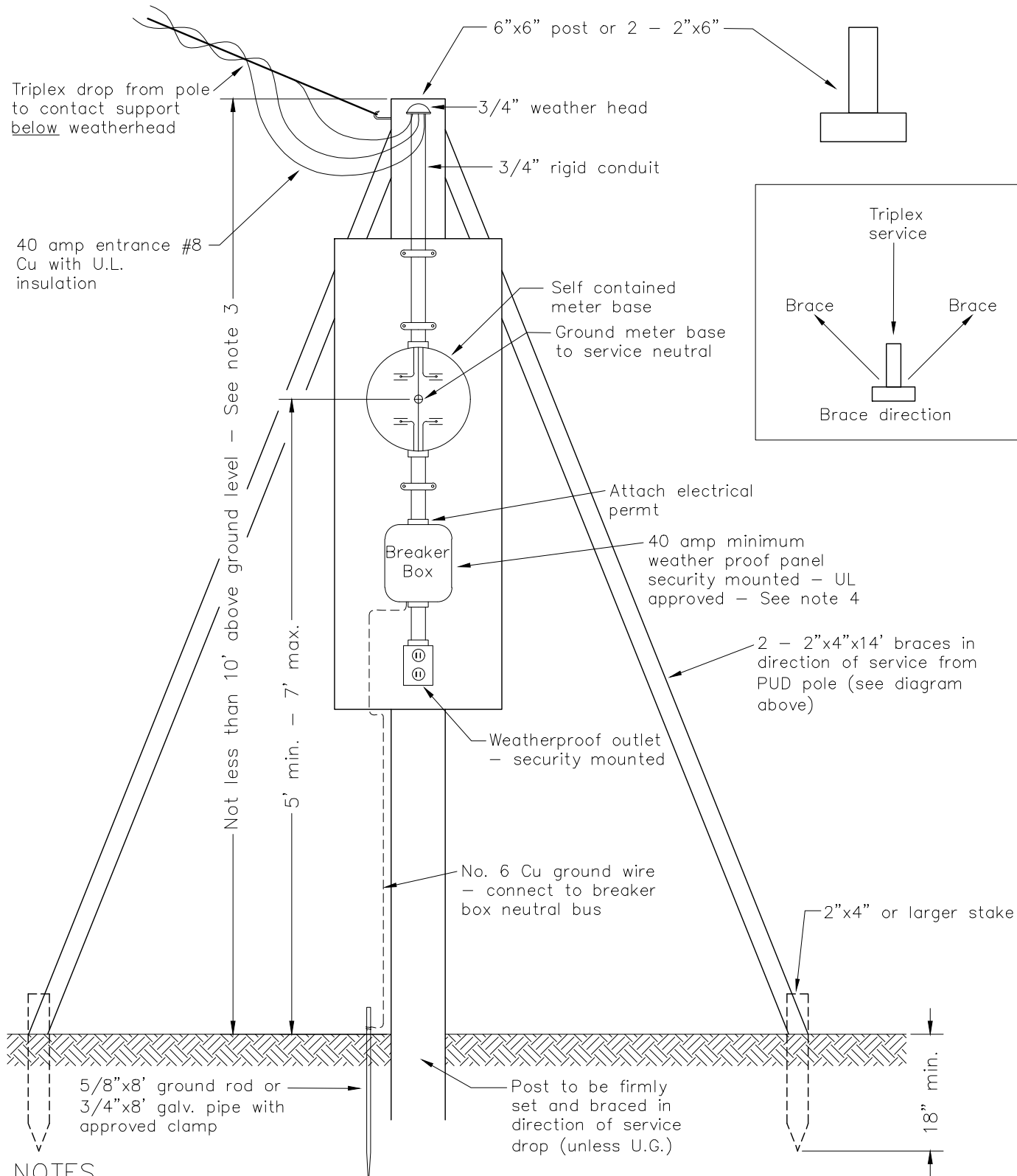
M23

CAD FILE:
M23

REVISIONS

REV	DATE	ENGR	OPS
1	2/23/00	HWH	MA

APP:	SECTION
DATE: 4/92	900



NOTES

1. Install service and support 3' from pedestal for U.G. service.
2. Ground equipment per state and local code requirements.
3. Service must clear driveways 12' and streets 18'.
4. Panel circuit breakers must have 10,000 amp interrupting rating.
5. DO NOT attach to district poles.

This installation must be inspected by the Dept. of Labor & Industries before Clark Public Utility can energize.

Dept. of Labor & Industries, 896-2350
City of Vancouver, 696-8105



CONSTRUCTION STANDARDS

LAYOUT FOR TEMPORARY ELECTRICAL SERVICE
120/240V - 3 WIRE

PAGE:
1 of 1

M28

CAD FILE:
M28

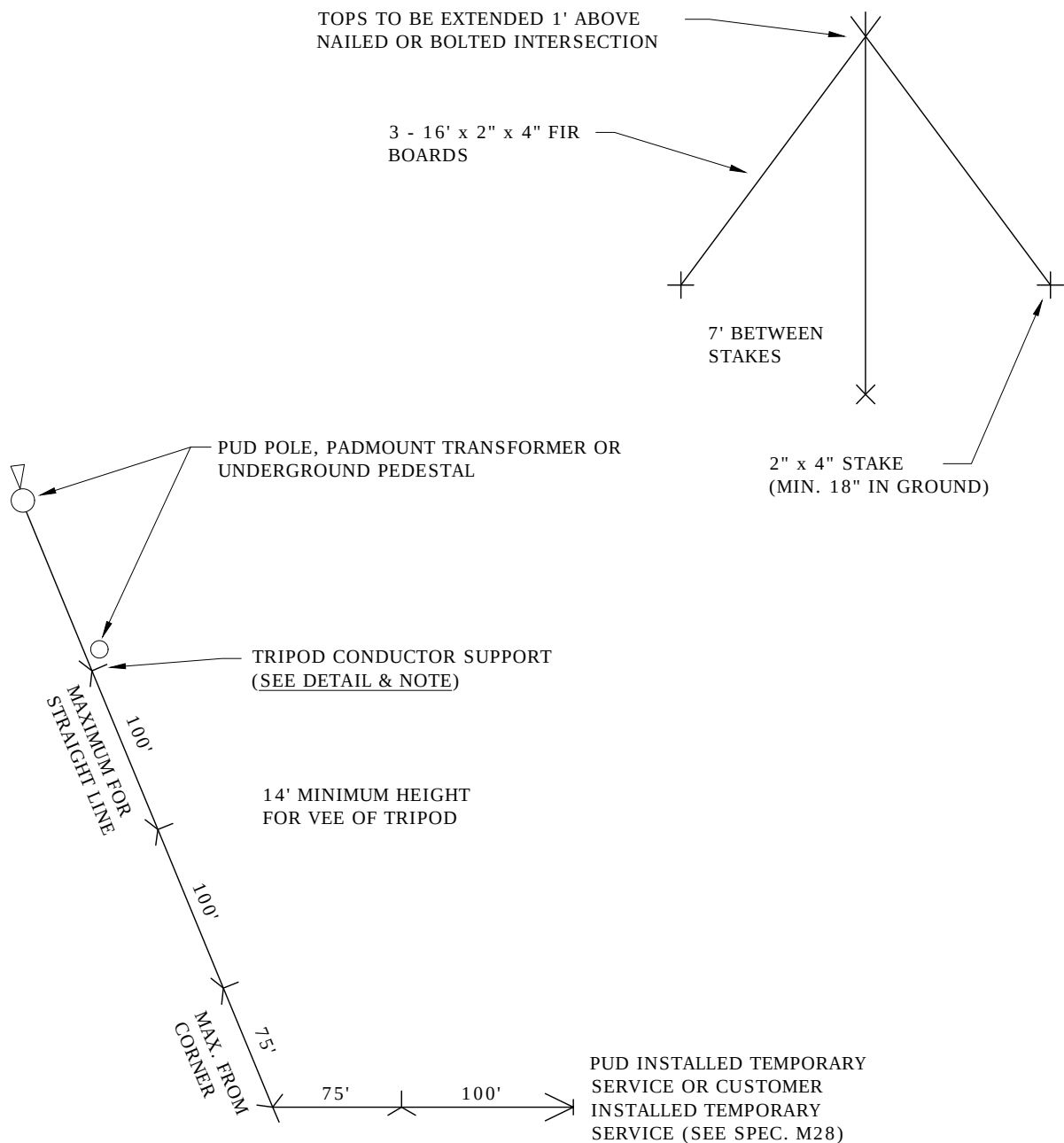
REVISIONS

DATE	ENGR	OPS
3/02		

Redrawn In Cad

APP:	SECTION
DATE: 1965	900

TRIPOD DETAIL

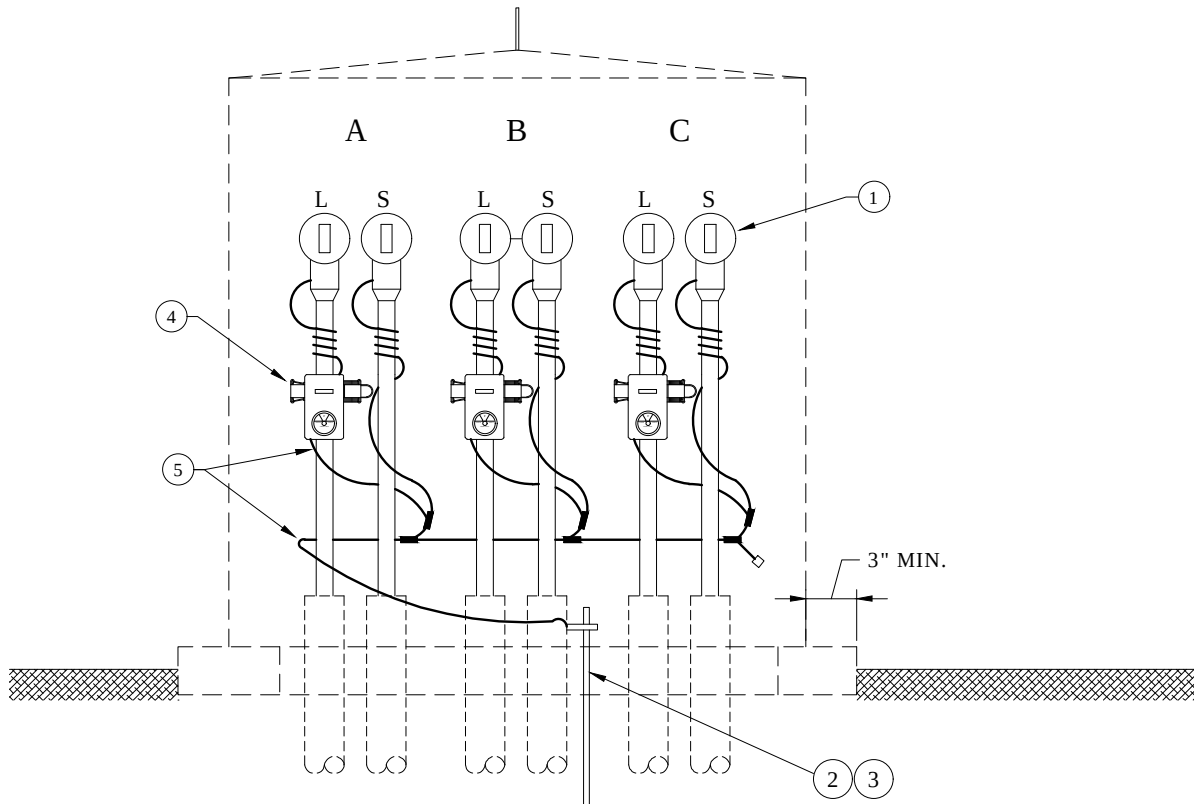


Note: IF SERVICE CROSSES A ROADWAY, USE 24' x 2" x 6" FIR BOARDS FOR TRIPODS & PLACE ADJACENT TO ROADWAY TO REDUCE CONDUCTOR SPAN & PROVIDE MINIMUM OF 18' CLEARANCE (CHECK WITH PUD ENGINEER IF SERVICE ROUTE CROSSES STATE HIGHWAY).

TO BE USED ONLY WITH DISTRICT APPROVAL



	CONSTRUCTION STANDARDS			REVISIONS			
	CT METER BASE SUPPORT FOR PADMOUNT TRANSFORMER			R	DATE	ENGR	OPS
				1	2/23/00	HWH	MA
PAGE: 1 of 1	MBCT			CAD FILE: MBCT		APP: DATE: 4/22 SECTION 900	



ELEVATION
FRONT VIEW

ALL NEUTRAL EXTENSIONS SHALL BE #2 B.C.

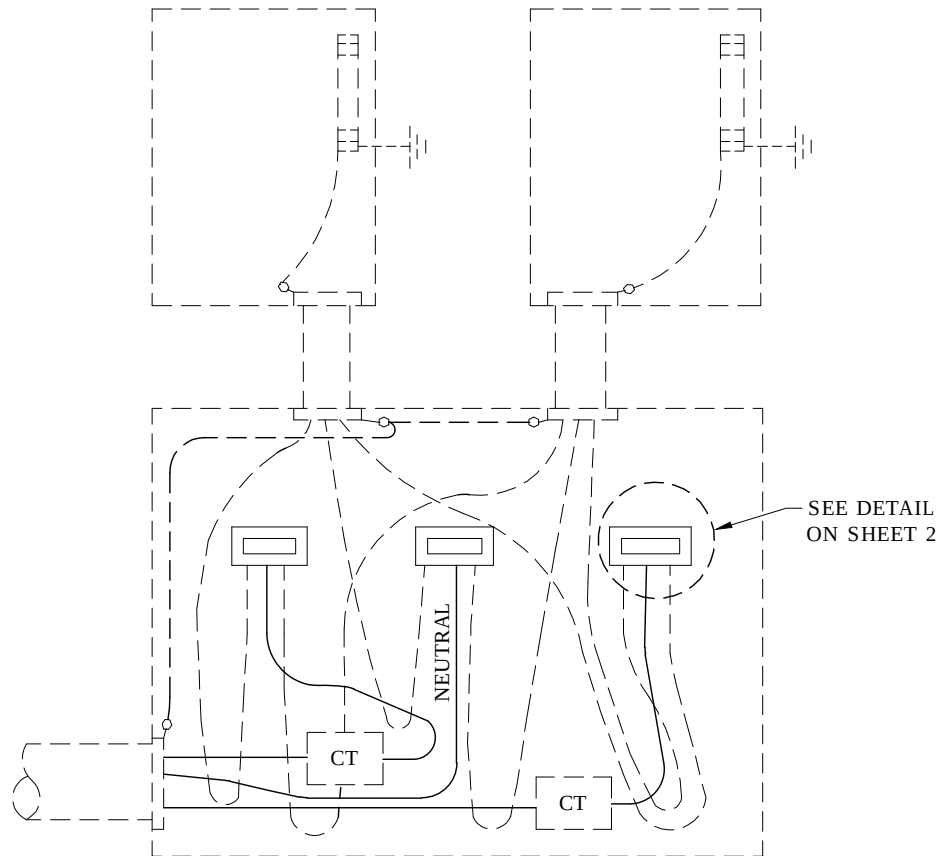
NOTE: PRIMARY METER ENCLOSURE IS NOT A STOCK ITEM. FOR A REPLACEMENT FOR CPU MAINTENANCE, A "PURCHASE REQUISITION" MUST BE GENERATED BY THE ENGINEER FOR PURCHASING. PURCHASING WILL GENERATE THE "PURCHASE ORDER." A COPY OF THE SPECIFICATION FOR THE ENCLOSURE IS IN THE METERING MANUAL.

REV 2: CHANGED TO CURRENT-RESET FAULT INDICATORS & ADDED NOTES

ITEM NO.	DESCRIPTION	UM1	
		QTY.	S/N
1	Terminator, Elbow L.B. 200A	6	1312
2	Clamp, Ground Rod 5/8" SML	1	281
3	Clamp, Ground Rod 5/8" x 8'	1	1124
4	Fault Indicator	3	2581 ✱
5	Conductor, Copper, #2 Sol. BCSD	40	1553

Clark Public Utilities 	CONSTRUCTION STANDARDS PRIMARY 3 PHASE METERING ENCLOSURE		REVISIONS			
				DATE	ENGR	OPS
			1	2/23/00	HWH	MA
			2	8/2/05	LB	AH
						
			APP:		SECTION	
DATE: 9/94		900				

PAGE:	UM1	CAD FILE: UM1
1 of 1		



C.T. CAN
FRONT VIEW

NOTE: FOR CONDUCTORS 1/0 TO 350 KCM ALUMINUM

REV 1. NOTES FOLLOWED BY STAR HAVE BEEN REVISED

REV 2. REMOVED 3Ø FROM TITLE AND CORRECTED NOTE & MATERIAL ISSUE



CONSTRUCTION STANDARDS

SECONDARY 1Ø
CT METERING ASSEMBLIES
RESIDENTIAL

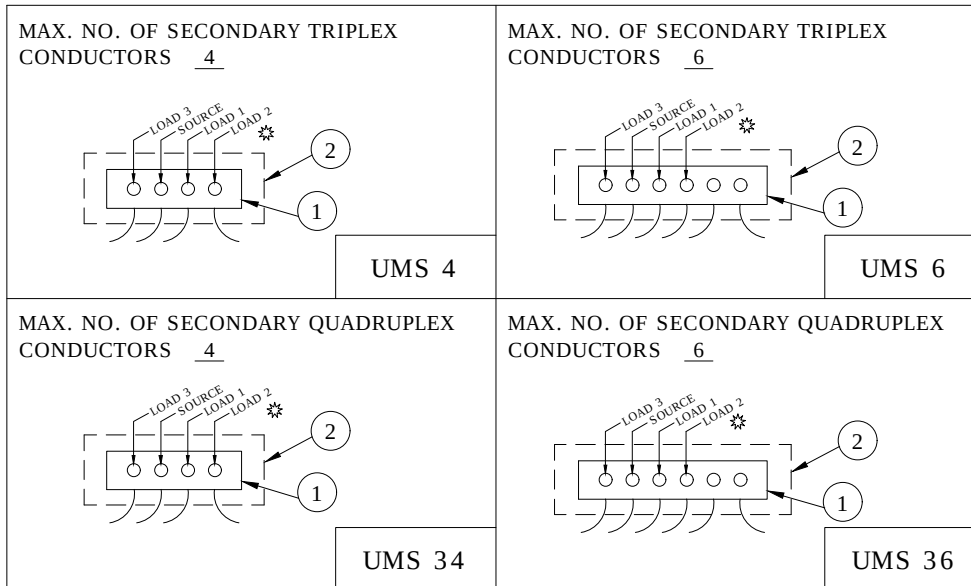
PAGE:
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UMS4,UMS6,UMS34,UMS36

CAD FILE:
UMS4

REVISIONS

△R	DATE	ENGR	OPS
1	2/23/00	HWH	MA
2	8/2/05	LB	AH
△1			
APP:			SECTION
DATE: 9/94			900



REV 2. REMOVED 3Ø FROM TITLE AND CORRECTED NOTE & MATERIAL ISSUE

ITEM NO.	DESCRIPTION	UMS4	
		QTY.	S/N
1	Connector, Pedestal 4	3	528
2	Cover, Connector	3	573 ✱
ITEM NO.	DESCRIPTION	UMS6	
		QTY.	S/N
1	Connector, Pedestal 6	3	531
2	Cover, Connector	3	574
ITEM NO.	DESCRIPTION	UMS34	
		QTY.	S/N
1	Connector, Pedestal 4	4	528
2	Cover, Connector	4	573 ✱
ITEM NO.	DESCRIPTION	UMS36	
		QTY.	S/N
1	Connector, Pedestal 6	4	531
2	Cover, Connector	4	574

Clark Public Utilities	CONSTRUCTION STANDARDS SECONDARY 1Ø CT METERING ASSEMBLIES RESIDENTIAL			REVISIONS			
				R	DATE	ENGR	OPS
				1	2/23/00	HWH	MA
				2	8/2/05	LB	AH
	1						
	PAGE: 2 of 2		UMS4,UMS6,UMS 34,UMS36		CAD FILE: UMS4		SECTION 900