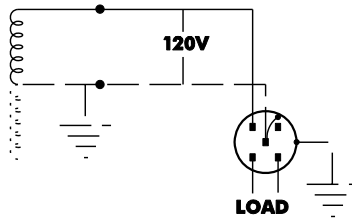


SINGLE PHASE SOCKETS

1.07.1

SECTION 1.07A

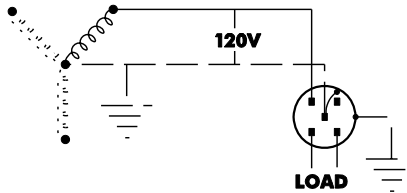
120V 2W 1Ø (OFF 120/240V 1Ø 3W)



REFER TO DWG: 4.02.1

SECTION 1.07A

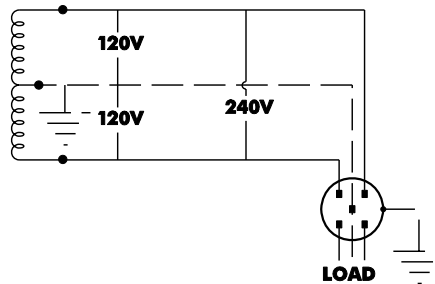
120V 2W 1Ø (OFF 120/208V 3Ø 4W)



REFER TO DWG: 4.02.1

SECTION 1.07B

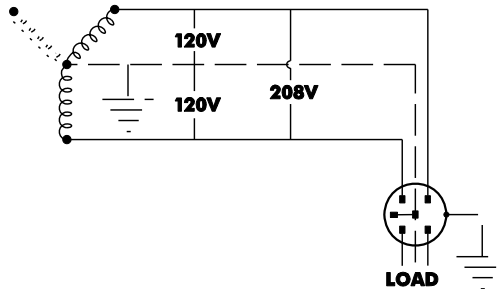
120/240V 1Ø 3W



REFER TO DWG:
4.02.2 THRU 4.02.7

SECTION 1.07C

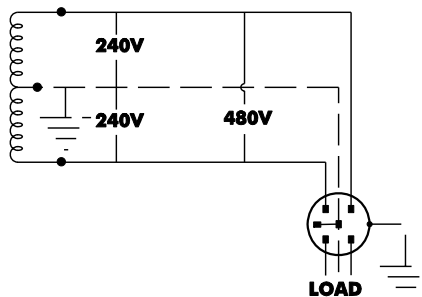
120/208V 1Ø 3W (OFF 120/208V 3Ø 4W)



REFER TO DWG: 4.02.14

SECTION 1.07D OVERHEAD ONLY

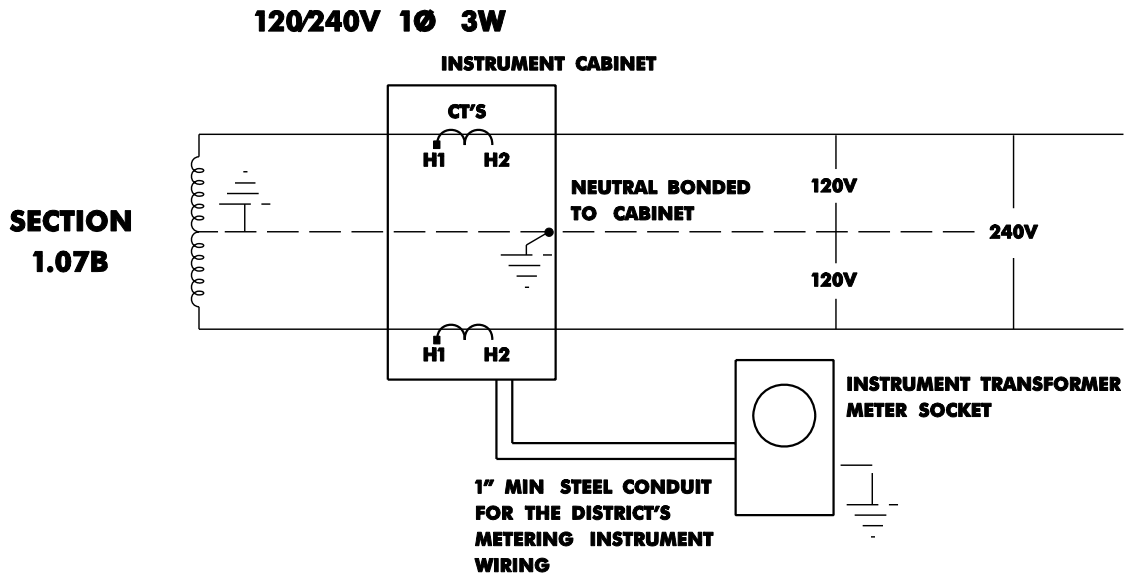
240/480V 1Ø 3W



REFER TO DWG: 4.02.9

SINGLE PHASE INSTRUMENT TRANSFORMERS (CT'S)

1.07.2



INSTRUMENT TRANSFORMER CABINET SIZE IS TO BE DETERMINED BY THE CUSTOMER AFTER RECEIPT OF INSTRUMENT TRANSFORMER'S FROM THE DISTRICT, TAKING INTO CONSIDERATION THE NUMBER, PHYSICAL SIZE AND ORIENTATION OF THE INSTRUMENT TRANSFORMER'S, THE DIRECTION AND SIZE OF INCOMING AND OUTGOING CONDUCTORS, AND THE CONDUCTOR BENDING RADIUS NEEDED TO COMPLY WITH THE NEC.

REFER TO DWGS:

METER DIAGRAM: 4.06.3

RESIDENTIAL & GENERAL SERVICE OVERHEAD: 6.10

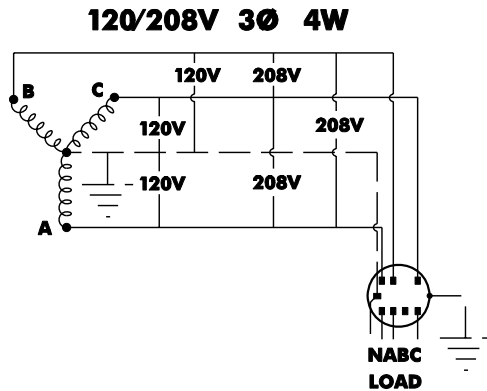
RESIDENTIAL UNDERGROUND: 7.07

GENERAL SERVICE UNDERGROUND: 8.06

THREE PHASE, 4 WIRE, WYE SOCKETS

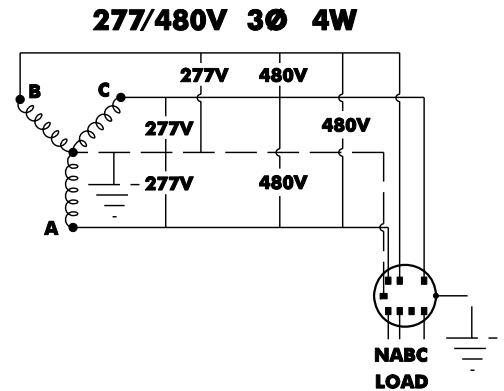
1.07.3

SECTION 1.07E



REFER TO DWG: 4.02.13

SECTION 1.07F

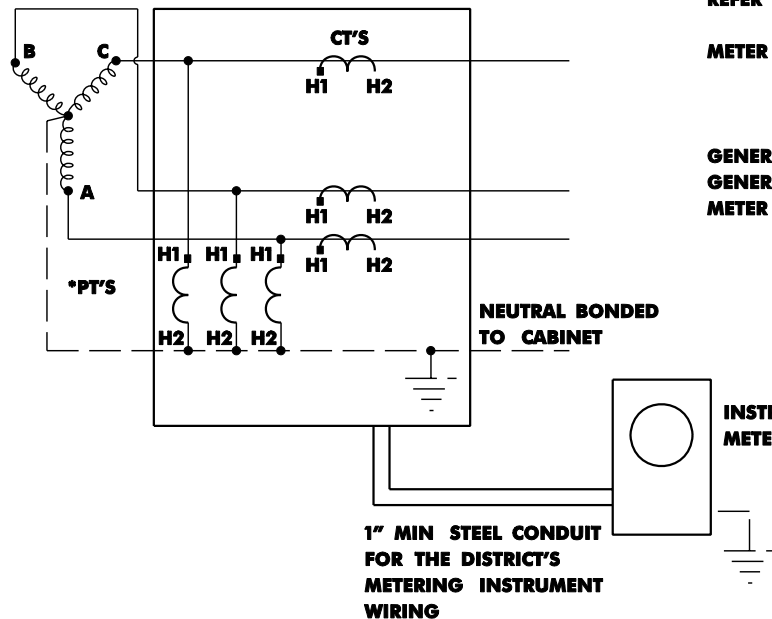


REFER TO DWG: 4.02.13

THREE PHASE, 4 WIRE, WYE INSTRUMENT TRANSFORMERS (CT'S & PT'S)

SECTION 1.07E SECTION 1.07F

**120/208V 3Ø 4W
277/480V 3Ø 4W
INSTRUMENT CABINET**



REFER TO DWGS:

METER DIAGRAM: 4.06.14
4.06.15
4.06.16
4.06.17

GENERAL SERVICE OVERHEAD: 6.10
GENERAL SERVICE UNDERGROUND: 8.06
METER ON PADMOUNT: 8.08.8

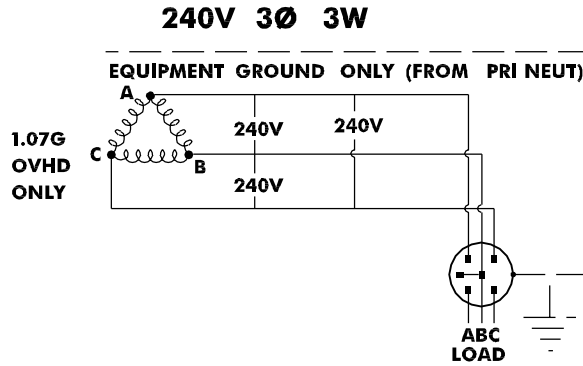
INSTRUMENT TRANSFORMER
METER SOCKET

*PT'S WHEN REQUIRED

THREE PHASE, 3-WIRE, CLOSED DELTA SOCKETS

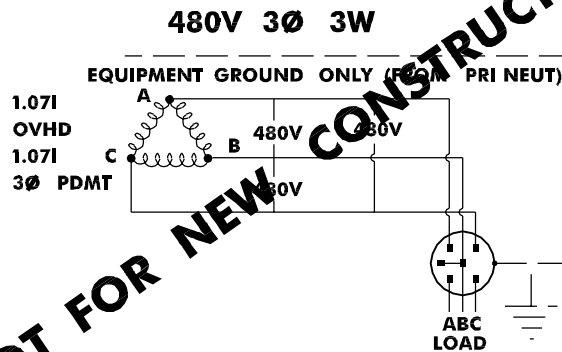
1.07.4

SECTION 1.07G



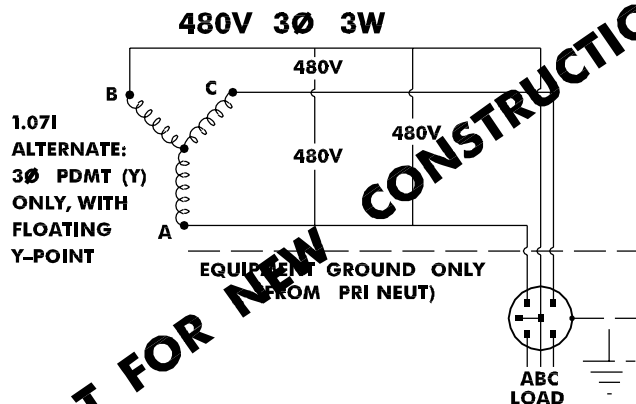
REFER TO DWG: 4.02.10

SECTION 1.07I



REFER TO DWG: 4.02.10

SECTION 1.07I



REFER TO DWG: 4.02.11

THREE PHASE, 3-WIRE, CLOSED DELTA INSTRUMENT TRANSFORMERS (CT'S & PT'S)

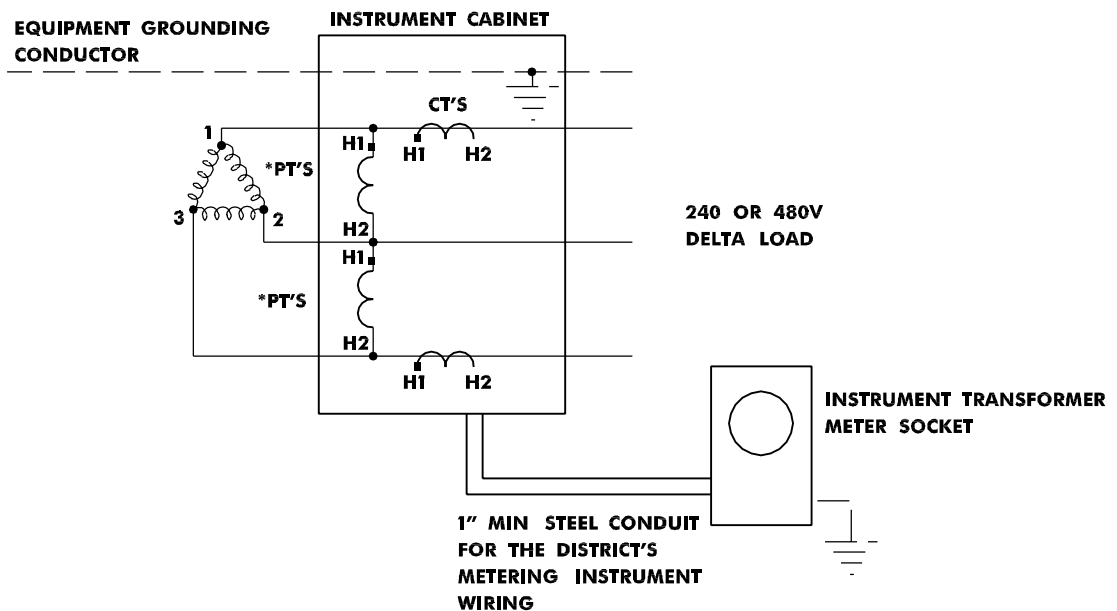
1.07.5

SECTION
1.07G
OVERHEAD
ONLY

240V 3W DELTA

SECTION
1.07I

480V 3W DELTA – NOT FOR NEW CONSTRUCTION



*PT'S WHEN REQUIRED

REFER TO DWGS:

METER DIAGRAMS: 4.06.8

4.06.9

4.06.10

4.06.11

GENERAL SERVICE OVERHEAD: 8.06

GENERAL SERVICE UNDERGROUND: 7.07

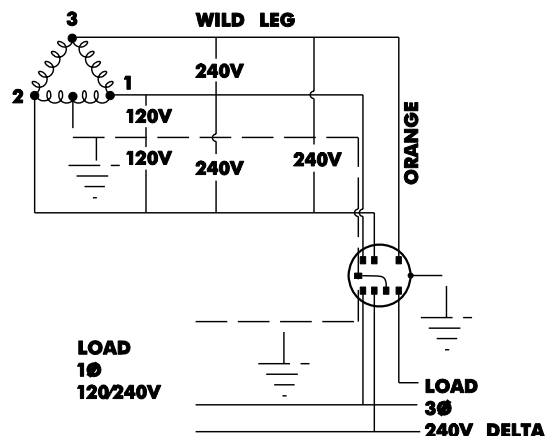
METER ON PADMOUNT: 8.08.8

THREE PHASE, 4-WIRE, CLOSED DELTA SOCKETS

1.07.6

SECTION
1.07H
OVERHEAD
ONLY

120/240/240V 3Ø 4W



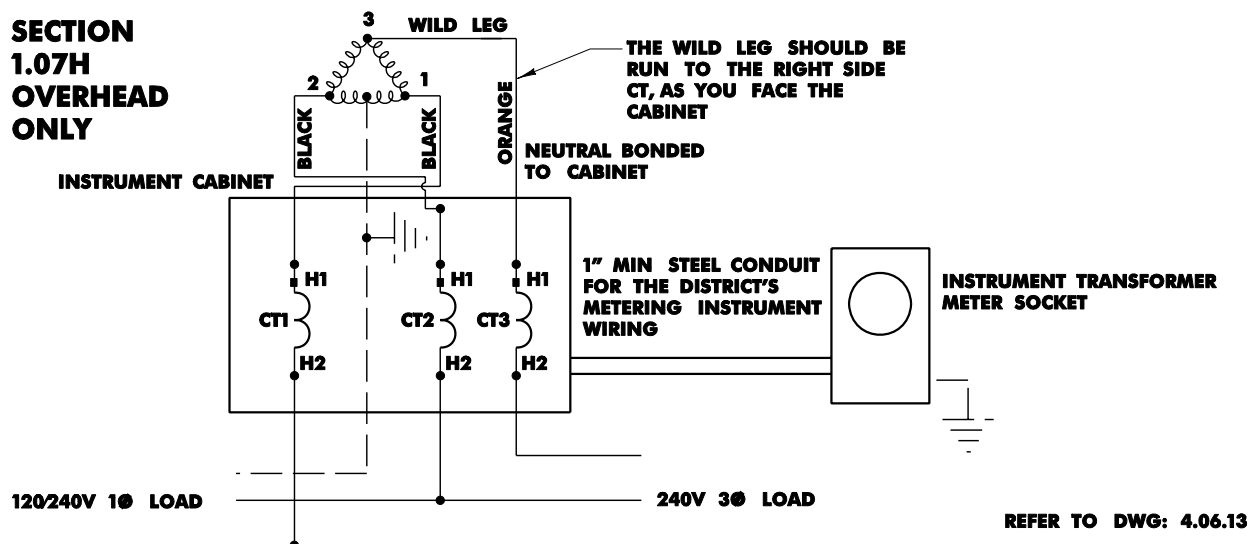
REFER TO DWGS: 4.06.13

NOTE: MAXIMUM SINGLE PHASE LOAD
IS LIMITED TO FIVE PER CENT OF THE
TOTAL LOAD ON BANK

THREE PHASE, 4-WIRE, CLOSED DELTA INSTRUMENT TRANSFORMERS (CT'S)

120/240/240V 3Ø 4W

SECTION
1.07H
OVERHEAD
ONLY

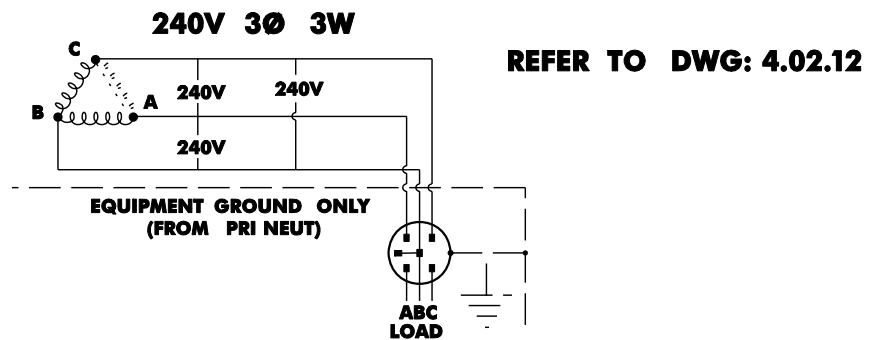


CT1 AND CT2 HAVE THE SAME RATIO
CT3 HAS A RATIO HALF OF CT1 AND CT2
IE: CT1 - 400/5
CT2 - 400/5
CT3 - 200/5

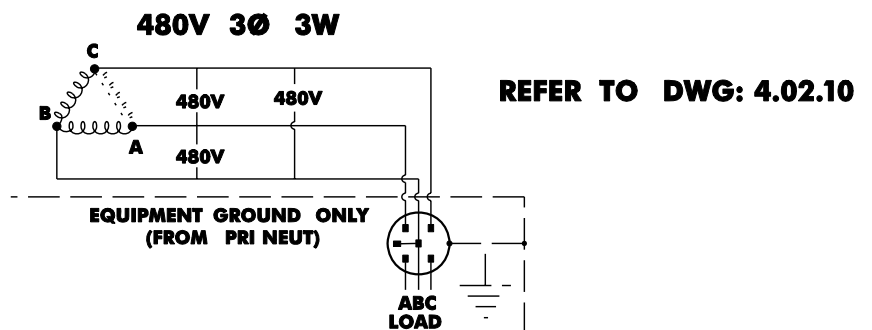
THREE PHASE, 3-WIRE, OPEN DELTA SOCKETS

1.07.7

SECTION 1.07J OVERHEAD ONLY



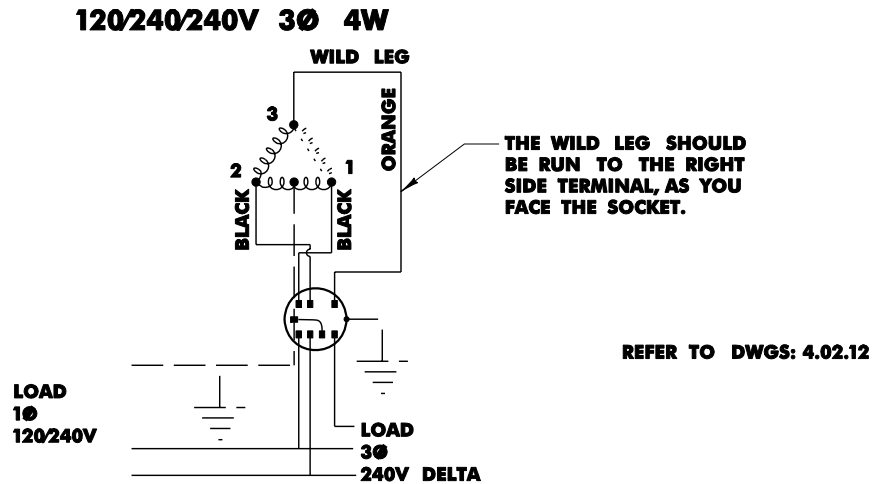
SECTION 1.07L



THREE PHASE, 4-WIRE, OPEN DELTA SOCKETS

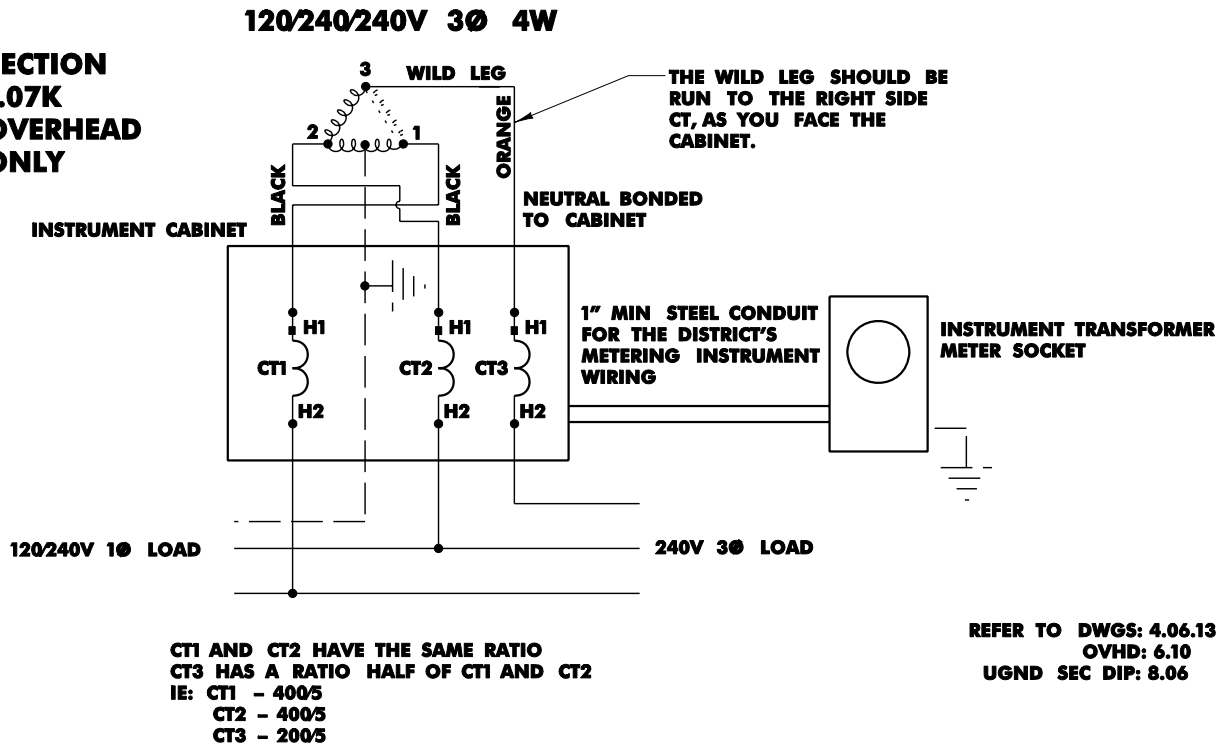
1.07.8

SECTION 1.07K OVERHEAD ONLY



THREE PHASE, 4-WIRE, OPEN DELTA INSTRUMENT TRANSFORMERS (CT'S)

SECTION 1.07K OVERHEAD ONLY



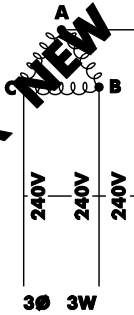
6-WIRE TOTALIZED SERVICE

LIMITED TO EXISTING 6-WIRE CUSTOMERS ONLY

1.07.9

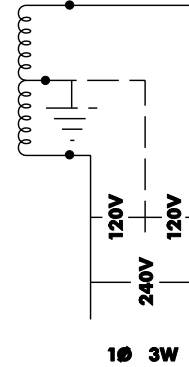
SECTION
1.07O

POWER
TRANSFORMER(S)



A 6W CUSTOMER (1.07N) COULD
BE FED FROM A 4W BANK
(1.07K), BUT NOT VICE-VERSA

1.07B
PDMT
1.07B
OVHD

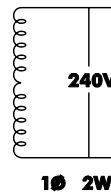
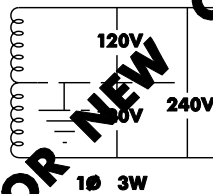


REFER TO DWGS: 4.06.4
4.06.5
4.06.6
4.06.7

5-WIRE TOTALIZED SERVICE

LIMITED TO EXISTING 5-WIRE CUSTOMERS ONLY

SECTION
1.07P



ISOLATES 240V 2W
FROM 1Ø 3W TO
AVOID FLICKER FROM
WELDERS, ETC.

REFER TO
DWG: 4.02.8

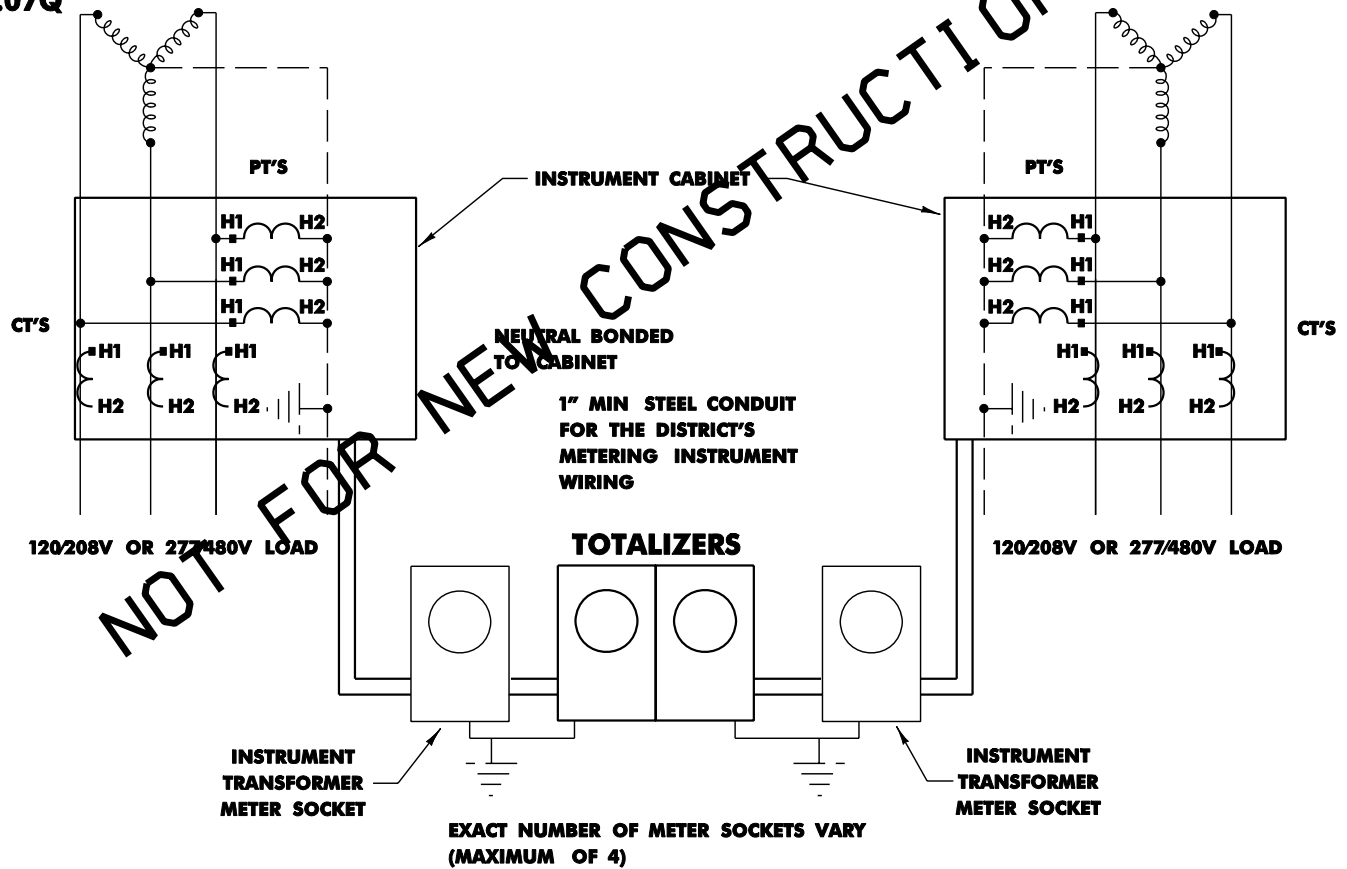
TWO CIRCUIT TOTALIZED

THREE PHASE, 4-WIRE, WYE

1.07.10

SECTION
1.07Q

4W TOTALIZED SERVICE
2 CIRCUIT TOTALIZE WYE



REFER TO DWGS: 4.06.18

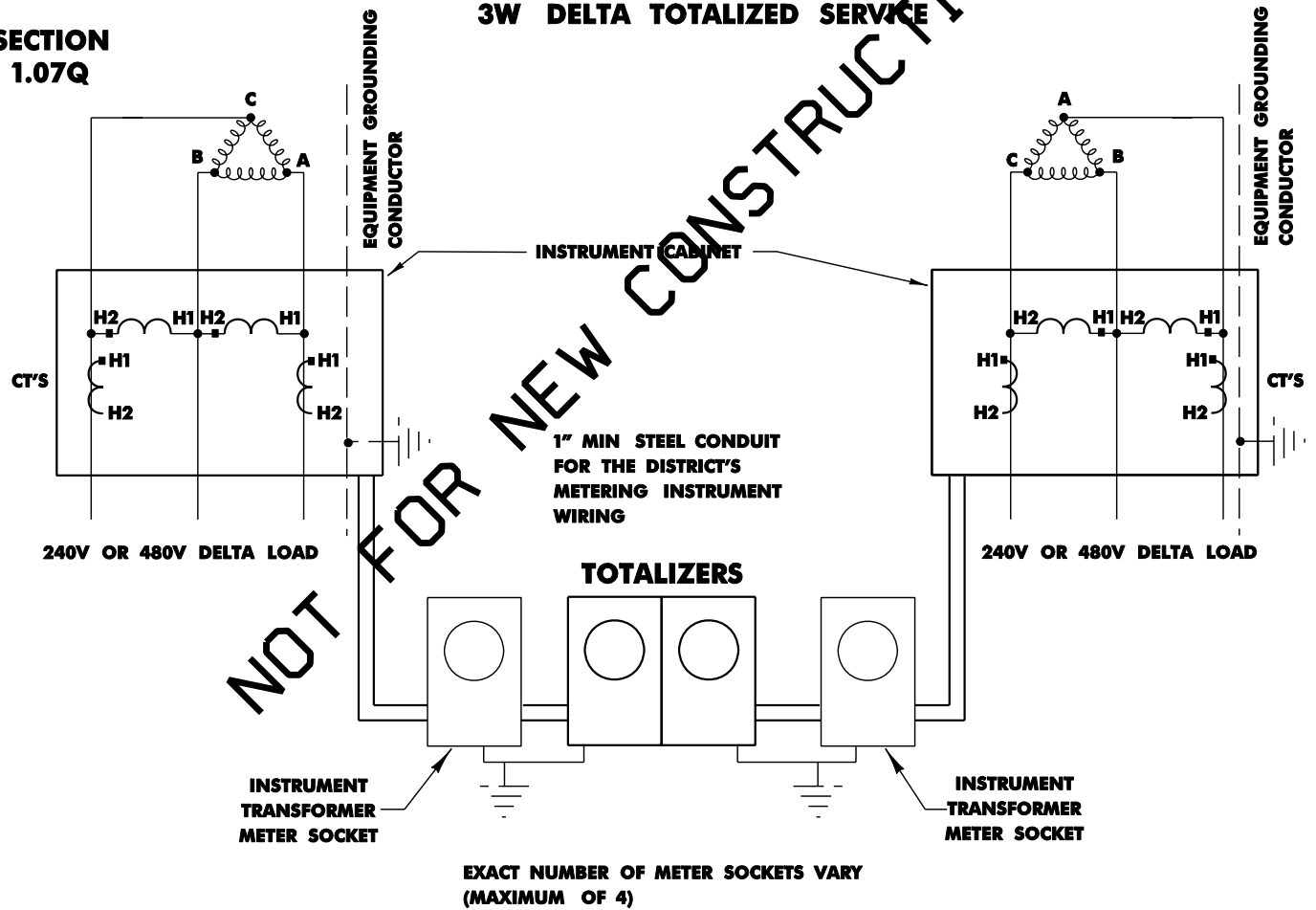
TWO CIRCUIT TOTALIZED

THREE PHASE, 3-WIRE, CLOSED DELTA

1.07.11

SECTION
1.07Q

3W DELTA TOTALIZED SERVICE



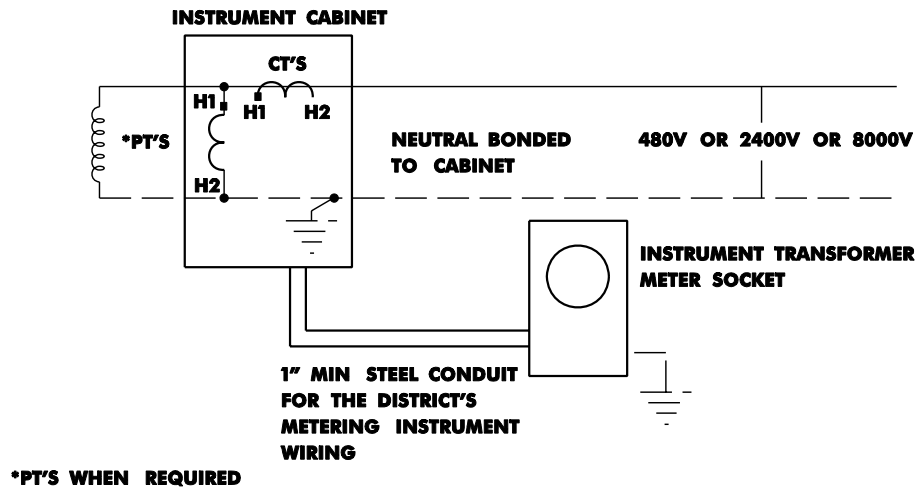
PRIMARY METERING

SINGLE PHASE

1.07.12

SECTION
1.07R

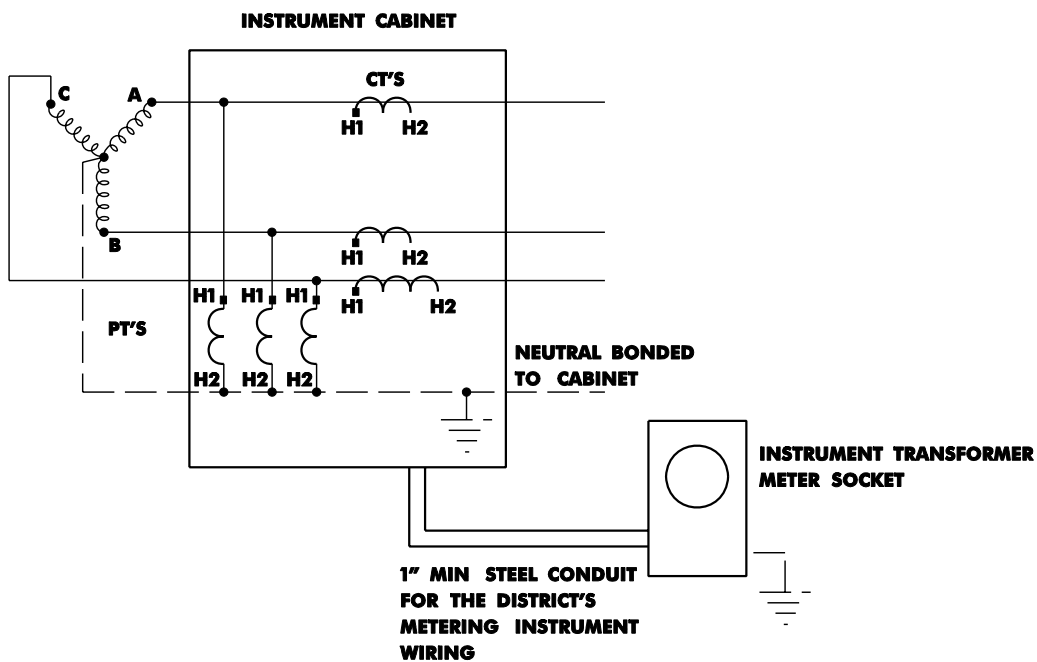
480V, 2400V, OR 8000V 1Ø 2W



PRIMARY METERING

13,800V, THREE PHASE, 4-WIRE, WYE

SECTION
1.07R

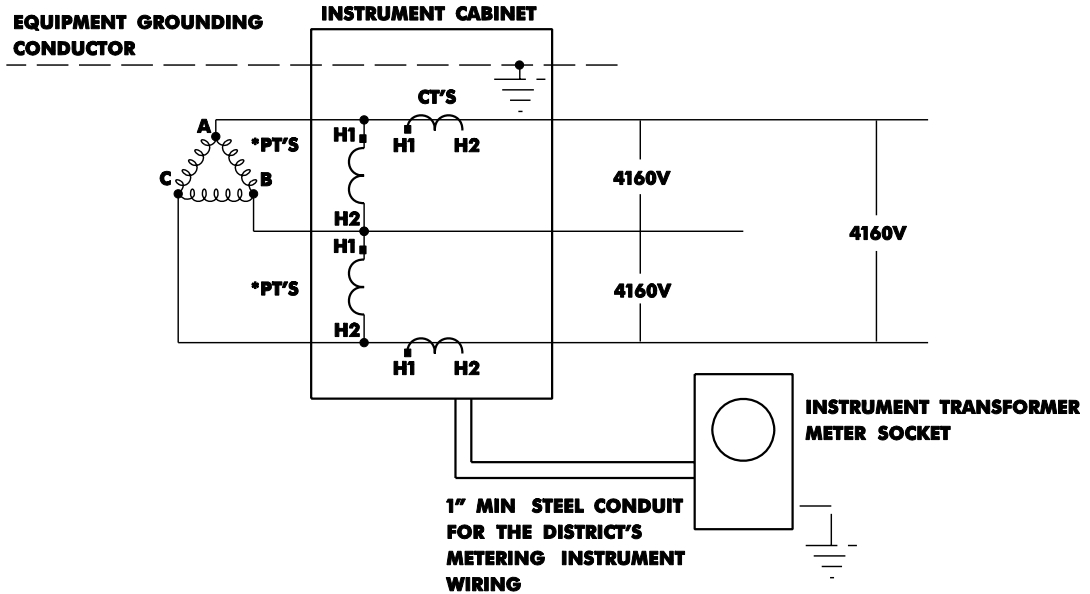


PRIMARY METERING

2400V, 4160V, THREE PHASE, 3-WIRE, CLOSED DELTA

1.07.13

SECTION 1.07R



*PT'S WHEN REQUIRED

SINGLE PHASE TWO WIRE METERING

120 VOLT SERVICE – ONE KILOWATT MAXIMUM

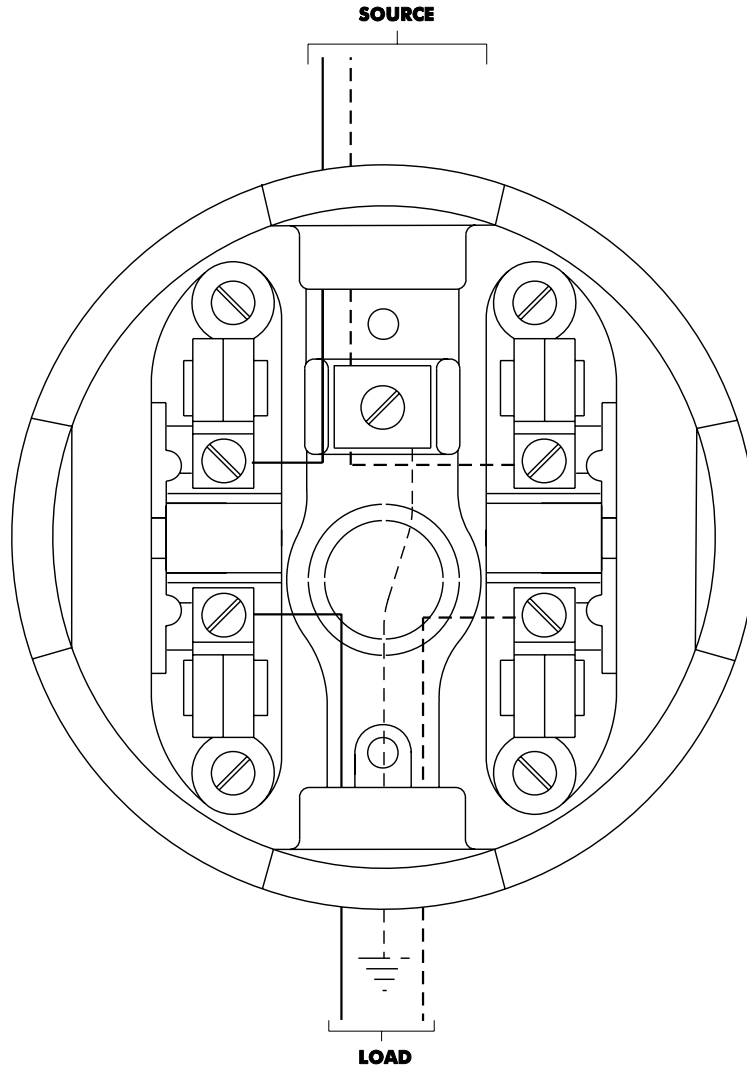
4.02.1

M104

NOTES:

TO BE WIRED AS SHOWN

HOT SIDE TO LEFT, FACING SOCKET



FRONT VIEW
COVER REMOVED

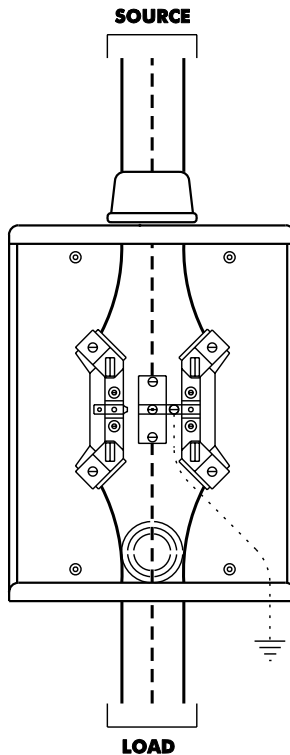
METER SOCKET: 0000006608
(BY CUSTOMER)

SURFACE TYPE METER SOCKET

**120/240 VOLT 3-WIRE
150 AMPERES OVERHEAD
SERVICE**

4.02.2

M118
M118D
120/208V 1Ø 3W: M218
M218D



**FRONT VIEW
COVER REMOVED**

NOTES:

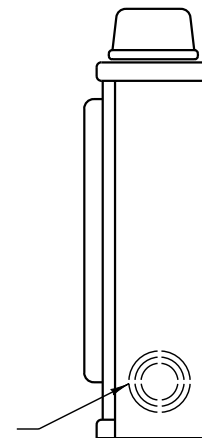
**METER SOCKET 0000006616
(BY CUSTOMER)**

**TERMINALS FOR MAXIMUM
250 KCMIL CONDUCTORS**

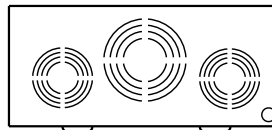
**METER SOCKET AVAILABLE
WITH FIFTH TERMINAL FOR
THREE WIRE WYE SERVICE**

**METER CABINET AVAILABLE
WITH 1 1/4", 1 1/2", 2", OR
2 1/2" INTERCHANGEABLE
HUB OR BLANK COVER PLATE**

**3 KNOCKOUTS FOR 1" TO 1 1/2"
CONDUIT IN SIDES AND BACK**



**SIDE VIEW
COVER IN PLACE**



BOTTOM VIEW

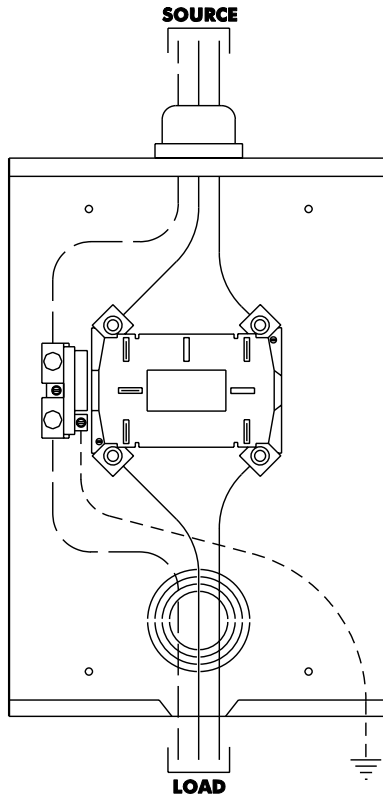
**2 KNOCKOUTS FOR 1/2" TO 1 1/2" CONDUIT
1 KNOCKOUT FOR 1/2" TO 2" CONDUIT
1 KNOCKOUT 1/4" FOR EQUIPMENT GROUND**

SURFACE TYPE METER SOCKET

**HIGH CAPACITY
120/240 VOLT 3-WIRE 200 AMPERES
OVERHEAD SERVICE**

4.02.3

M120
M120D
120/208V 1Ø 3W: M220
M220D



**FRONT VIEW
COVER REMOVED**

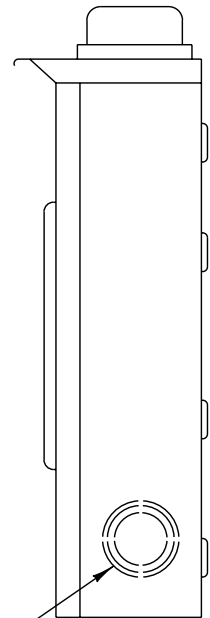
NOTES:

**TERMINALS FOR MAXIMUM
350 KCMIL CONDUCTORS**

**METER SOCKET AVAILABLE
WITH FIFTH TERMINAL FOR
THREE WIRE WYE SERVICE**

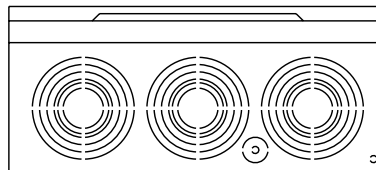
**METER CABINET AVAILABLE
WITH 1 1/2", 2", OR 2 1/2"
INTERCHANGEABLE HUB OR
BLANK COVER PLATE**

**METER SOCKET 0000006617
(BY CUSTOMER)**



**SIDE VIEW
COVER IN PLACE**

**3 KNOCKOUTS FOR 1 1/2",
2", OR 2 1/2" CONDUIT
IN SIDES AND BACK**



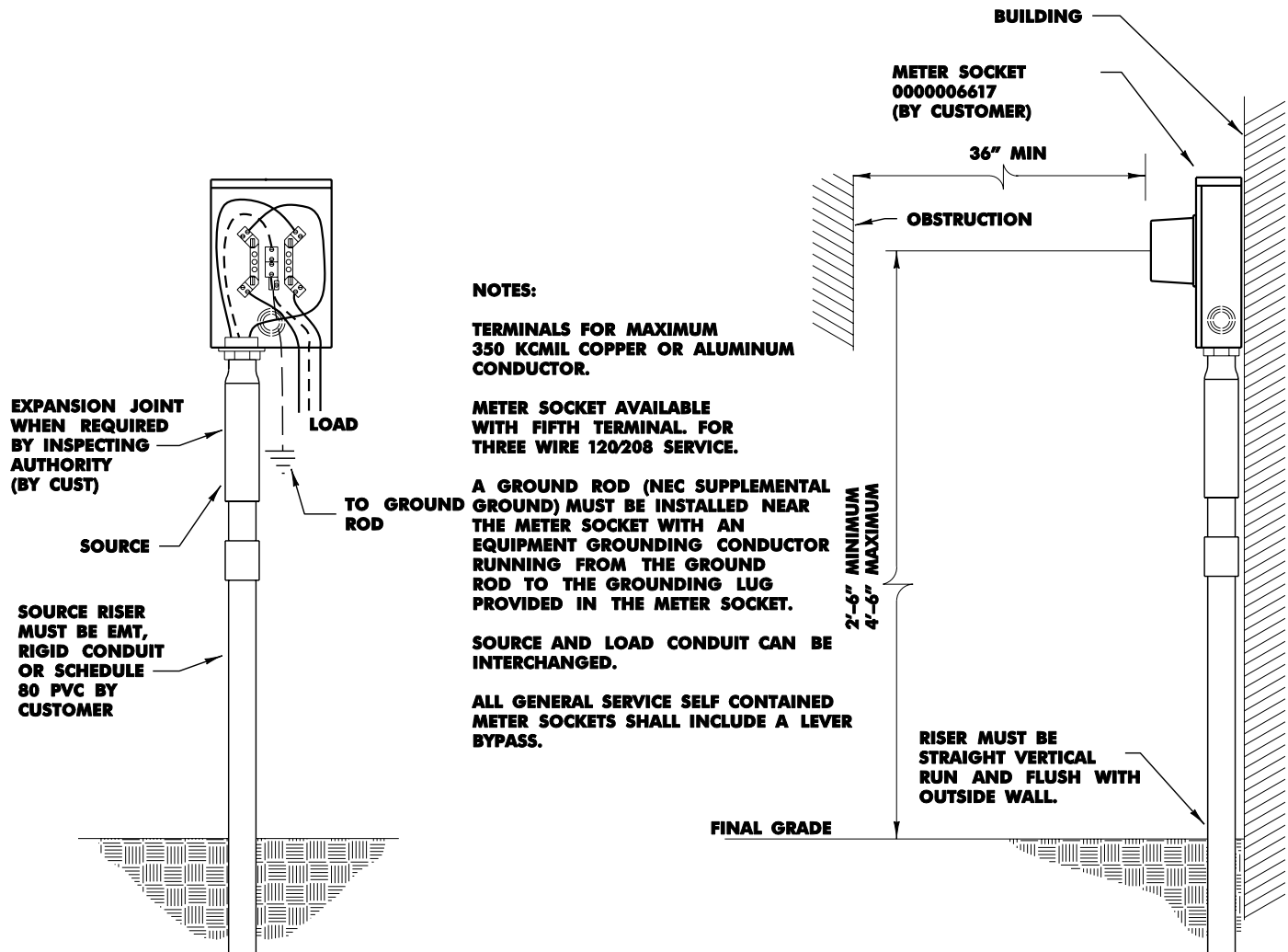
**BOTTOM VIEW
3 KNOCKOUTS FOR 1 1/2", 2", OR 2 1/2" CONDUIT**

SURFACE TYPE METER SOCKET

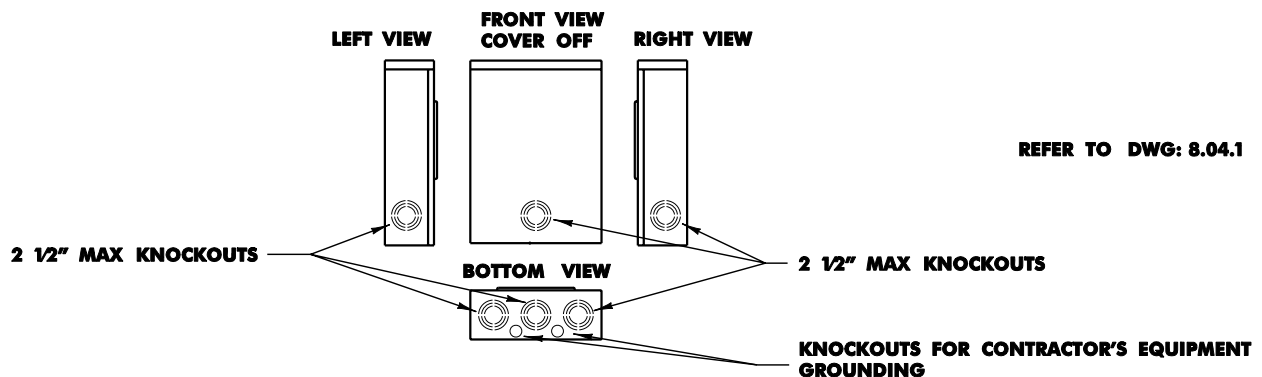
120/240 VOLT 3-WIRE 200 AMPERE UNDERGROUND SERVICE
"GENERAL SERVICE ONLY"

4.02.4

M121, M121D
M123, M123D
120/208V 1Ø 3W: M221, M221D
M223, M223D



KNOCKOUT LOCATION



SURFACE TYPE METER SOCKET

**HIGH CAPACITY
120/240 VOLT 3 WIRE 200 AMPERES
UNDERGROUND SERVICE**

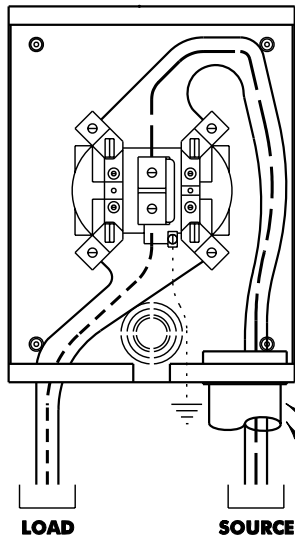
4.02.5

NOTES:

**TERMINALS FOR MAXIMUM
250 MCM CONDUCTORS**

**METER SOCKET AVAILABLE
WITH FIFTH TERMINAL FOR
THREE WIRE WYE SERVICE**

METER SOCKET 0000006617

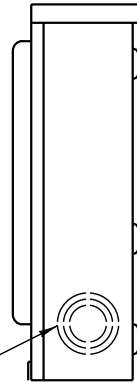


**FRONT VIEW
COVER REMOVED**

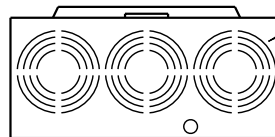
**THIS KNOCKOUT FOR
OPPD USE**

**2 1/2" RIGID GALVANIZED CONDUIT
WITH NON-METALLIC BUSHING BY
CUSTOMER IN ALL NON-RESIDENTIAL
APPLICATIONS.
OPPD WILL FURNISH A NON-METALLIC
RISER IN SINGLE FAMILY RESIDENTIAL
APPLICATION.**

**3 KNOCKOUTS FOR 1 1/2",
2", OR 2 1/2" CONDUIT IN
SIDES AND BACK**



**SIDE VIEW
COVER IN PLACE**



**THIS KNOCKOUT FOR
OPPD USE**

BOTTOM VIEW

3 KNOCKOUTS FOR 1 1/2", 2", OR 2 1/2" CONDUIT

1Ø SURFACE TYPE METER SOCKET

120/240 VOLT 3-WIRE 320 AMPERES
OVERHEAD SERVICE

4.02.6

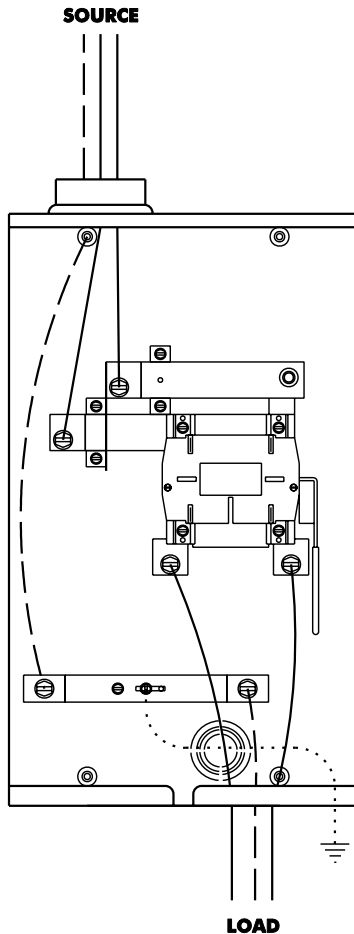
M130
M130D

NOTES:

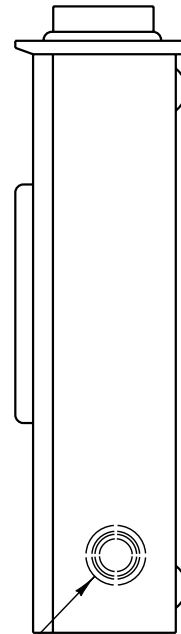
SOURCE:
SINGLE LUG - 350 KCMIL TO 500 KCMIL

LOAD:
SINGLE LUG - 500 KCMIL
DOUBLE LUG - 250 KCMIL

METER SOCKET 0000006618
(BY CUSTOMER)

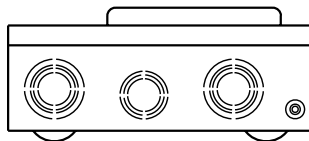


FRONT VIEW
COVER REMOVED



3 KNOCKOUTS FOR 2" TO 2 1/2"
CONDUIT IN SIDES AND BACK

SIDE VIEW
COVER IN PLACE



BOTTOM VIEW

2 KNOCKOUTS FOR 1 1/2" TO 3" CONDUIT
1 KNOCKOUT FOR 1 1/2" TO 2 1/2" CONDUIT
1 KNOCKOUT 1/4" & 1/2" EQUIPMENT GROUND

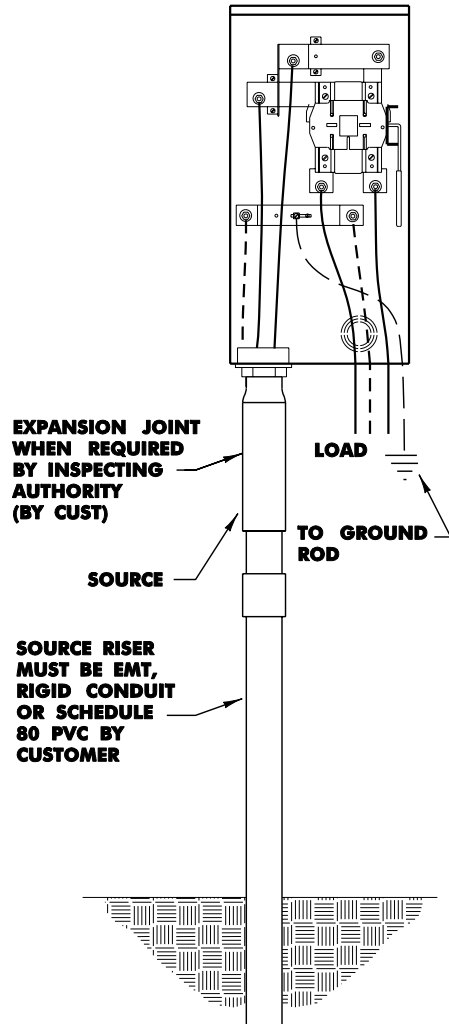
RESID. REFER TO DWG: 6.08.1
6.09

SURFACE TYPE METER SOCKET

120/240 VOLT 3-WIRE 320 AMPERE UNDERGROUND SERVICE
"GENERAL SERVICE ONLY"

4.02.7

M131
M131D

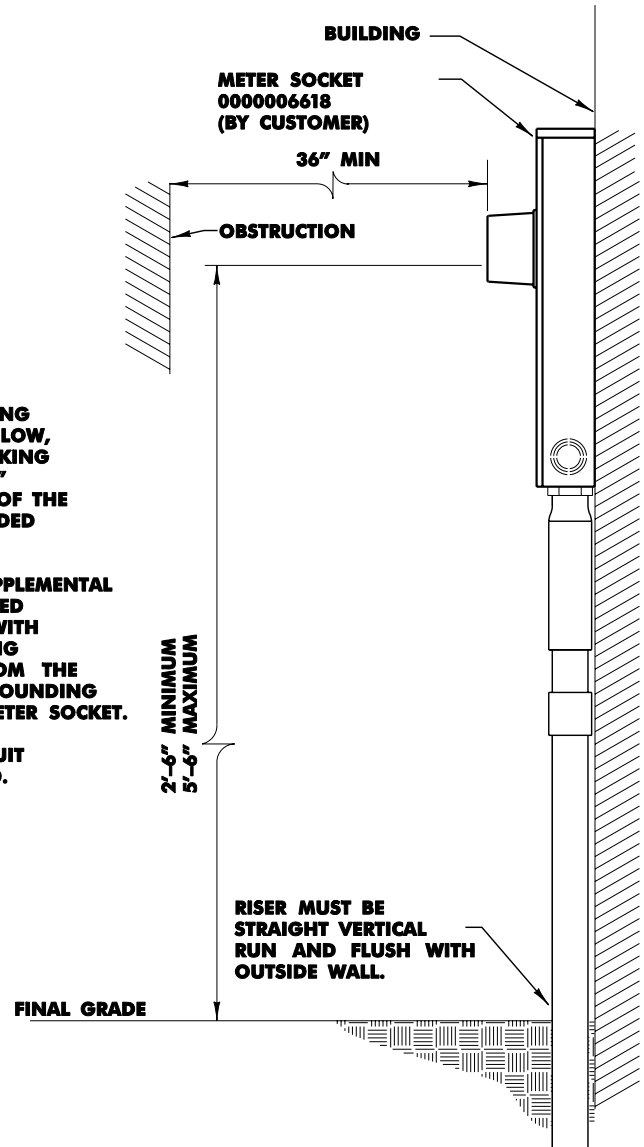


NOTE:

A MINIMUM CLEAR WORKING SPACE OF 2.5 FT ABOVE, BELOW, AND NECESSARY SIDE WORKING CLEARANCE, AS WELL AS 36" HORIZONTALLY IN FRONT OF THE METERING, SHALL BE PROVIDED AND MAINTAINED.

A GROUND ROD (NEC SUPPLEMENTAL GROUND) MUST BE INSTALLED NEAR THE METER SOCKET WITH AN EQUIPMENT GROUNDING CONDUCTOR RUNNING FROM THE GROUND ROD TO THE GROUNDING LUG PROVIDED IN THE METER SOCKET.

SOURCE AND LOAD CONDUIT CANNOT BE INTERCHANGED.



REFER TO DWG: 8.04.2

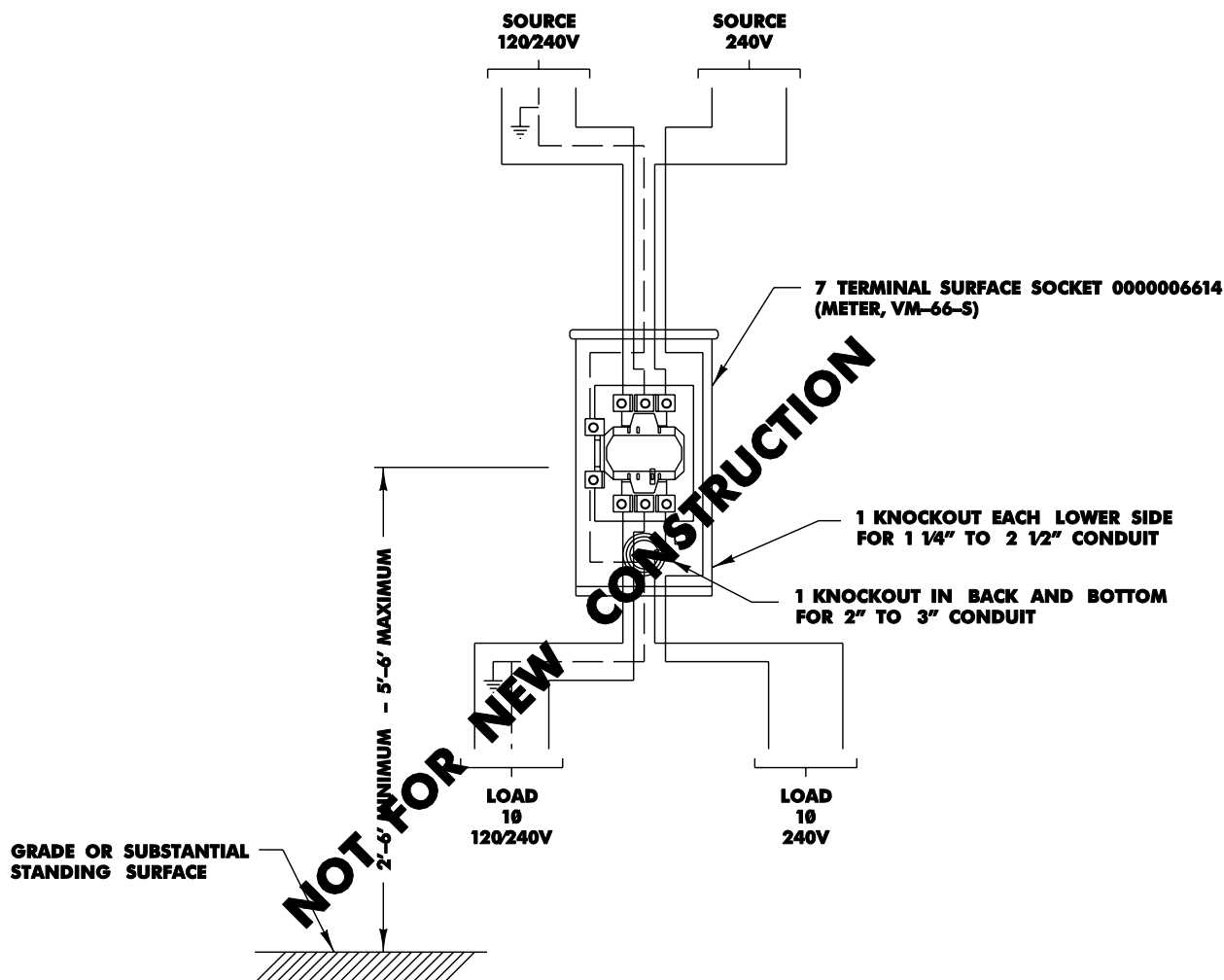
SOCKET TYPE TOTALIZED METERING

CLASS 100 - RATING 24KVA OF 10 120/240V AND 24KVA OF 10 240V

CLASS 200 - RATING 48KVA OF 10 120/240V AND 48KVA OF 10 240V

4.02.8

M180
M180D



NOTES:

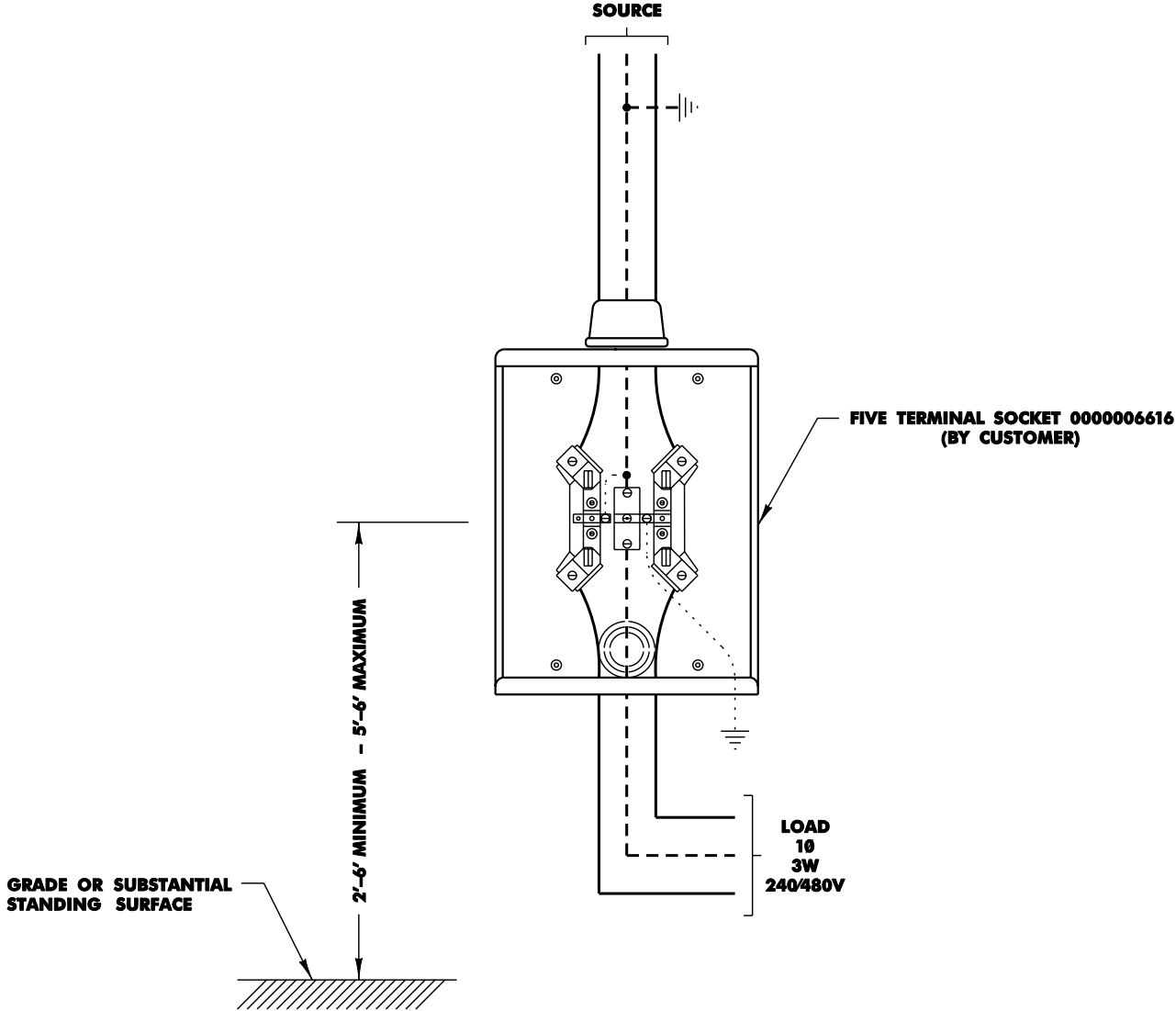
THIS METHOD OF METERING IS TO BE USED ONLY AT SPECIAL LOCATIONS, WHERE IT IS NECESSARY TO SERVE A 10 240V LOAD FROM A SEPARATE SOURCE, IN ORDER TO AVOID VOLTAGE DIPS ON THE 10 120/240V LOAD.

SERVICE ENTRANCE WIRES FOR THE 10 240V LOAD MUST BE PERMANENTLY IDENTIFIED TO DISTINGUISH THEM FROM THE 10 120/240V LOAD WIRES.

THREE WIRE SINGLE PHASE 480 VOLT

4.02.9

M184
M184D



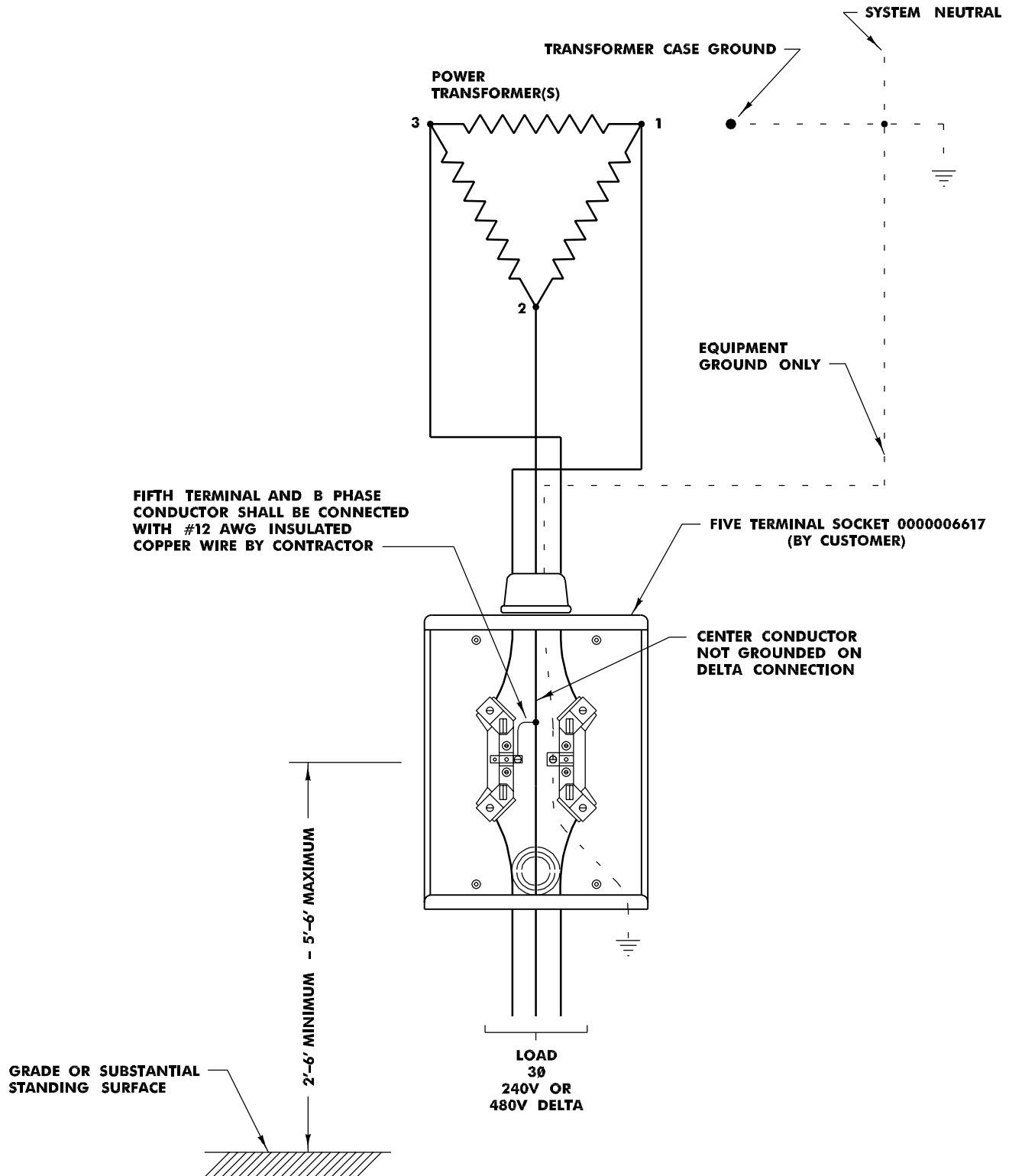
3Ø THREE WIRE SOCKET METERING

— 240 VOLT —
CLASS 200 - RATING 83KVA ON BALANCED LOAD

4.02.10

— 480 VOLT —
CLASS 200 - RATING 166KVA ON BALANCED LOAD
FOR MAINTENANCE ONLY

M320
M320D
M340
M340D



THREE PHASE THREE WIRE METERING

480 VOLT FROM WYE-CONNECTED TRANSFORMER SECONDARIES

— SOCKET TYPE —

CLASS 100 – RATING 100 AMPERES TOTAL PER PHASE ON BALANCED LOAD

CLASS 200 – RATING 200 AMPERES TOTAL PER PHASE ON BALANCED LOAD

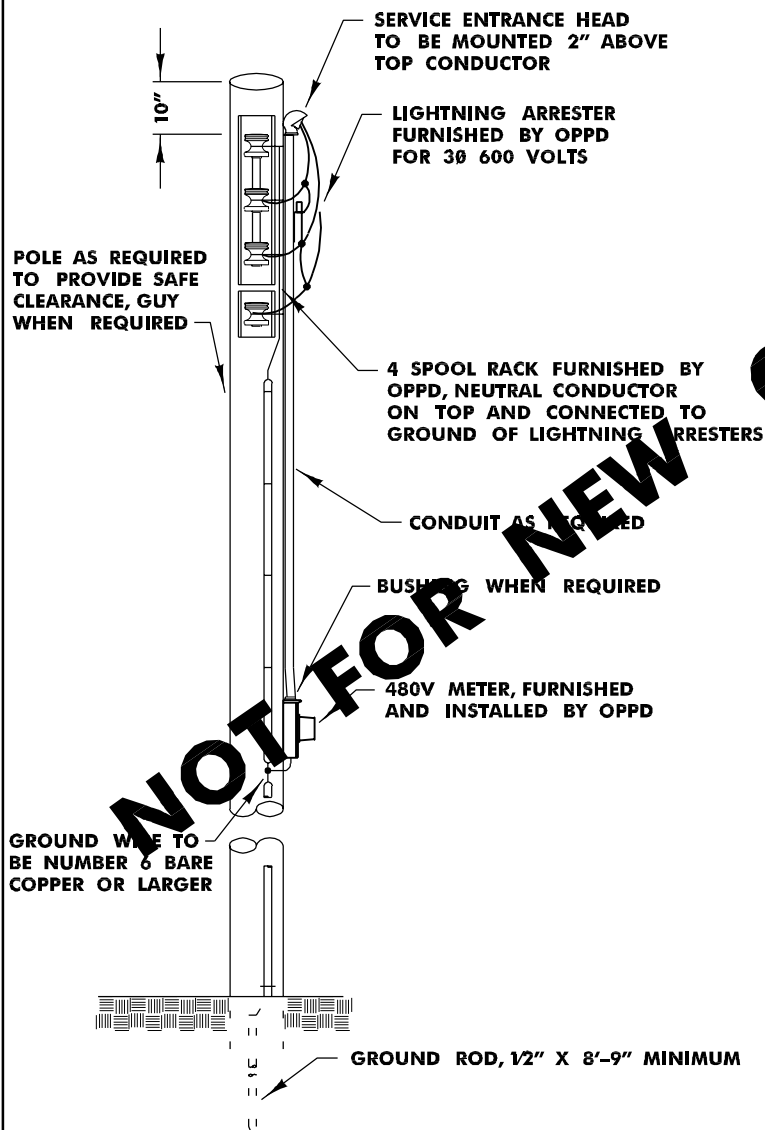
TYPICAL IRRIGATION-PUMP METER-POLE

4.02.11

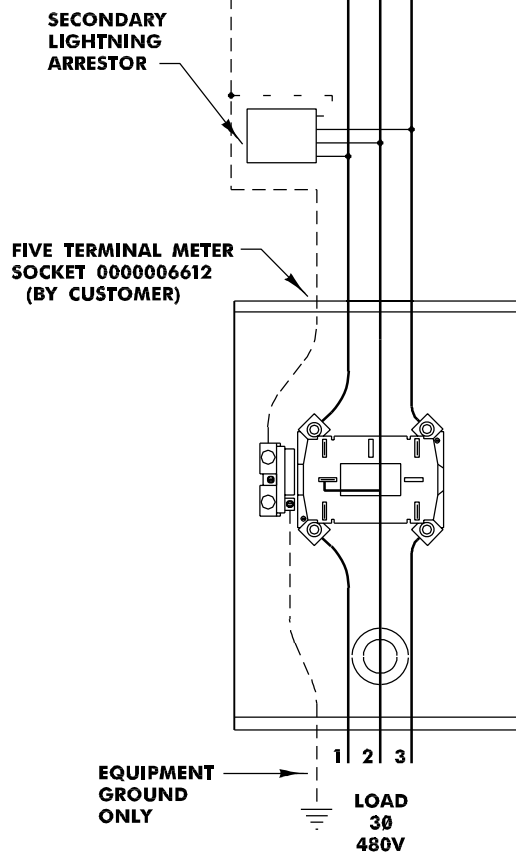
M360

M360D

3Ø WYE CONNECTED
TRANSFORMER SECONDARIES



NOT FOR NEW CONSTRUCTION



NOTE:

ALL MATERIAL TO BE "NATIONAL ELECTRICAL CODE" GRADE AND TO BE FURNISHED AND INSTALLED BY CUSTOMER, EXCEPT WHERE NOTED.

FOUR WIRE DELTA SOCKET METERING

CLASS 200 – RATING 200 AMPERES TOTAL PER PHASE ON BALANCED LOAD

4.02.12

FOUR WIRE DELTA COMBINED
BANK TRANSFORMERS
120/240V FROM 1 AND 2
240V 3Ø FROM 1, 2, AND 3

M520
M520D

NOTES:

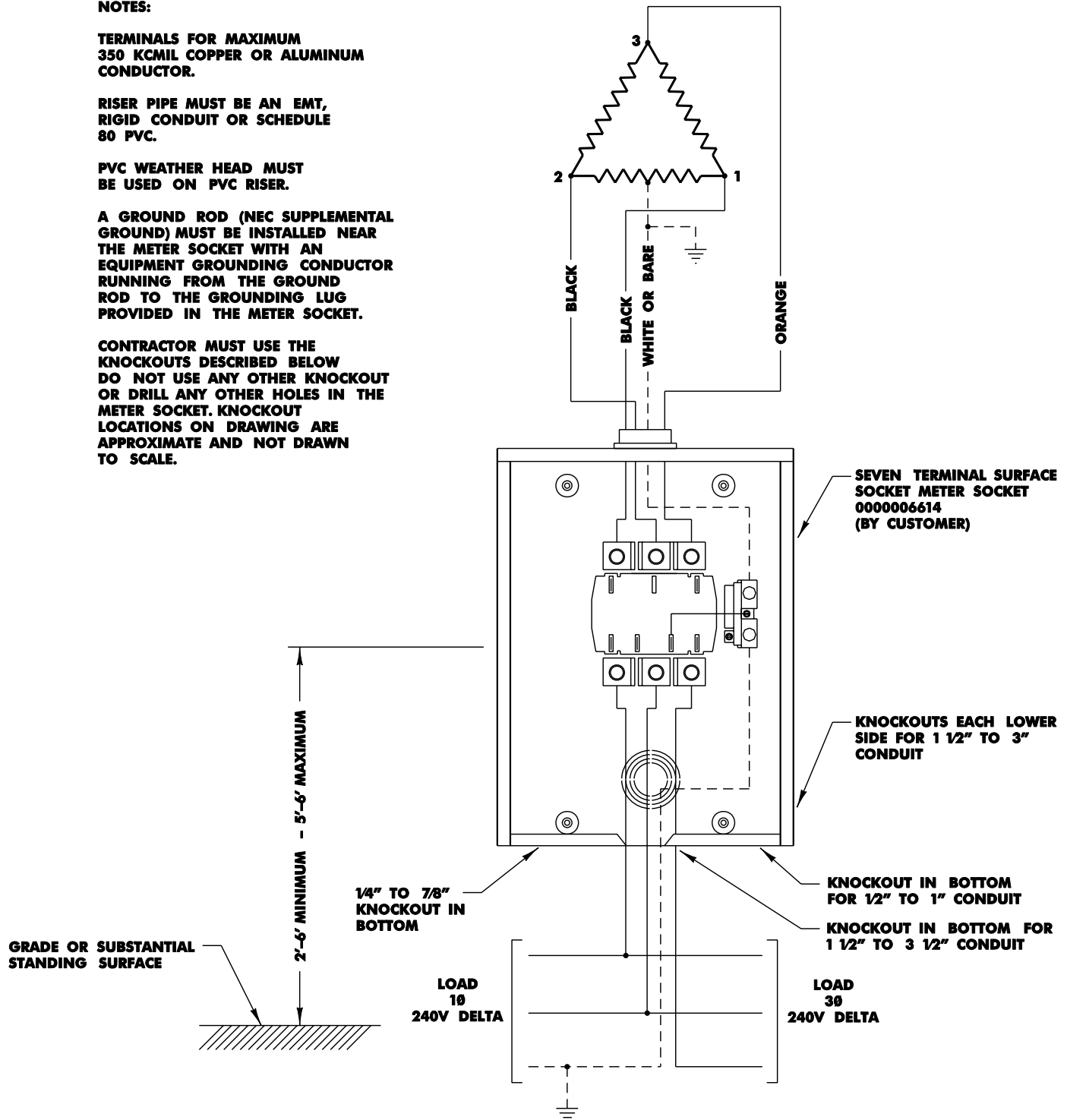
TERMINALS FOR MAXIMUM
350 KCMIL COPPER OR ALUMINUM
CONDUCTOR.

RISER PIPE MUST BE AN EMT,
RIGID CONDUIT OR SCHEDULE
80 PVC.

PVC WEATHER HEAD MUST
BE USED ON PVC RISER.

A GROUND ROD (NEC SUPPLEMENTAL
GROUND) MUST BE INSTALLED NEAR
THE METER SOCKET WITH AN
EQUIPMENT GROUNDING CONDUCTOR
RUNNING FROM THE GROUND
ROD TO THE GROUNDING LUG
PROVIDED IN THE METER SOCKET.

CONTRACTOR MUST USE THE
KNOCKOUTS DESCRIBED BELOW
DO NOT USE ANY OTHER KNOCKOUT
OR DRILL ANY OTHER HOLES IN THE
METER SOCKET. KNOCKOUT
LOCATIONS ON DRAWING ARE
APPROXIMATE AND NOT DRAWN
TO SCALE.

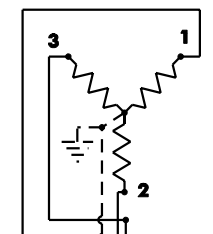


OVERHEAD 3Ø FOUR-WIRE WYE SOCKET METERING

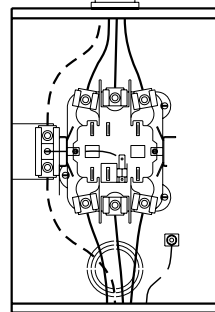
120/208V-CLASS 200-RATING 72KVA ON BALANCED LOAD
277/480V-CLASS 200-RATING 166KVA ON BALANCED LOAD

4.02.13

POWER TRANSFORMER (S)



RISER OPENING WILL ACCEPT
UP TO A 2 1/2" HUB



LOAD

SEVEN TERMINAL SURFACE SOCKET
METER SOCKET 0000006614
(BY CUSTOMER)

TO GROUND
ROD

M420
M421D
M441D

NOTES:

TERMINALS FOR MAXIMUM
350 KCMIL COPPER OR ALUMINUM
CONDUCTOR.

RISER PIPE MUST BE AN EMT,
RIGID CONDUIT OR SCHEDULE
80 PVC.

PVC WEATHER HEAD MUST
BE USED ON PVC RISER.

A GROUND ROD (NEC SUPPLEMENTAL
GROUND) MUST BE INSTALLED NEAR
THE METER SOCKET WITH AN
EQUIPMENT GROUNDING CONDUCTOR
RUNNING FROM THE GROUND
ROD TO THE GROUNDING LUG
PROVIDED IN THE METER SOCKET.

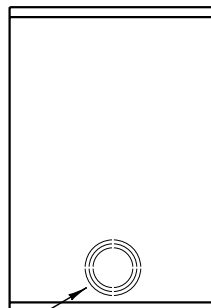
CONTRACTOR MUST USE THE
KNOCKOUTS DESCRIBED BELOW
DO NOT USE ANY OTHER KNOCKOUT
OR DRILL ANY OTHER HOLES IN THE
METER SOCKET. KNOCKOUT
LOCATIONS ON DRAWING ARE
APPROXIMATE AND NOT DRAWN
TO SCALE.

KNOCKOUT LOCATION

LEFT VIEW



FRONT VIEW
COVER OFF



RIGHT VIEW



3" KNOCKOUTS FOR
LOAD CONDUCTORS

2 1/2" KNOCKOUTS FOR
LOAD CONDUCTORS

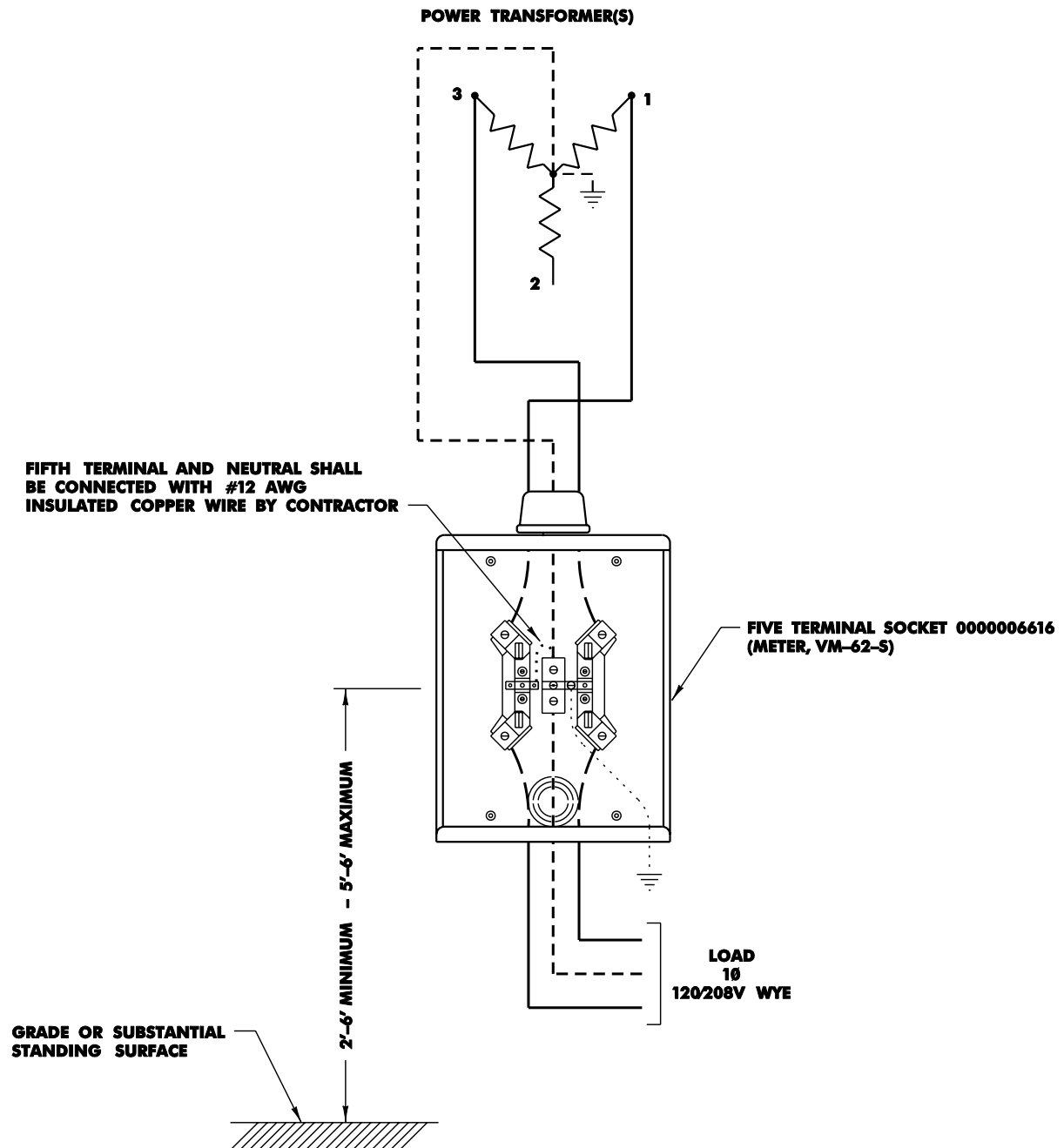
KNOCKOUTS FOR CONTRACTOR'S
EQUIPMENT GROUNDING CONDUCTORS

THREE WIRE WYE SOCKET METERING

120/208V 1Ø 3W

CLASS 100 - RATING 24KVA ON BALANCED LOAD
CLASS 200 - RATING 48KVA ON BALANCED LOAD

4.02.14

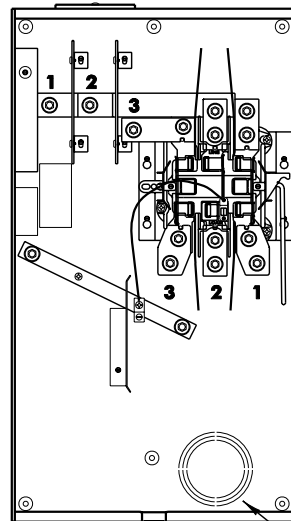


GENERAL SERVICE

120/208V 3Ø 4-WIRE /
320 AMP OVERHEAD OR UGND SOCKET

4.02.15

M422D



THIS IS KNOCK OUT FOR
LINE-SIDE CONDUCTORS
ONLY WHEN SOCKET
IS USED FOR UGND

3 1/2" KNOCKOUTS FOR
LOAD CONDUCTORS

NOTES:

REFER TO SECTION 6.14

TERMINALS FOR MAXIMUM
600 KCMIL COPPER OR ALUMINUM
CONDUCTOR.

RISER PIPE MUST BE AN EMT,
RIGID CONDUIT OR SCHEDULE
80 PVC.

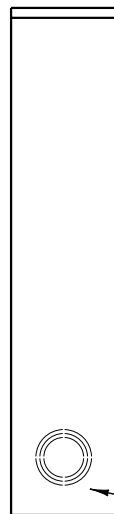
PVC WEATHER HEAD MUST
BE USED ON PVC RISER.

A GROUND ROD (NEC SUPPLEMENTAL
GROUND) MUST BE INSTALLED NEAR
THE METER SOCKET WITH AN
EQUIPMENT GROUNDING CONDUCTOR
RUNNING FROM THE GROUND
ROD TO THE GROUNDING LUG
PROVIDED IN THE METER SOCKET.

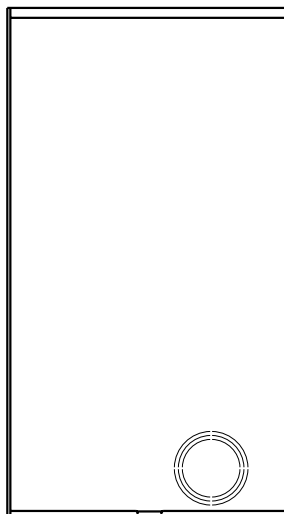
CONTRACTOR MUST USE THE
KNOCKOUTS DESCRIBED BELOW
DO NOT USE ANY OTHER KNOCKOUT
OR DRILL ANY OTHER HOLES IN THE
METER SOCKET. KNOCKOUT
LOCATIONS ON DRAWING ARE
APPROXIMATE AND NOT DRAWN
TO SCALE.

KNOCKOUT LOCATION

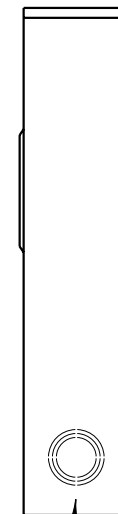
LEFT VIEW



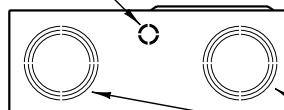
FRONT VIEW
COVER OFF



RIGHT VIEW



KNOCKOUTS FOR CONTRACTORS
EQUIPMENT GROUNDING CONDUCTORS

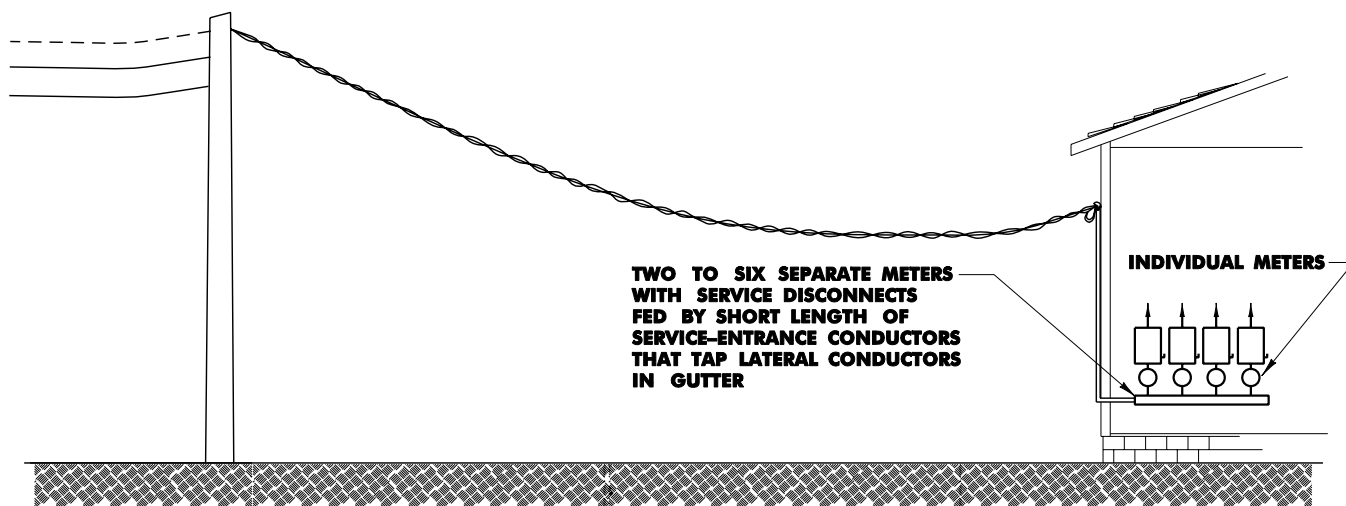


3 1/2" KNOCKOUTS FOR
LOAD CONDUCTORS

4 1/2" KNOCKOUTS FOR
LOAD CONDUCTORS

OVERHEAD SERVICE

4.05.1



NOTE:

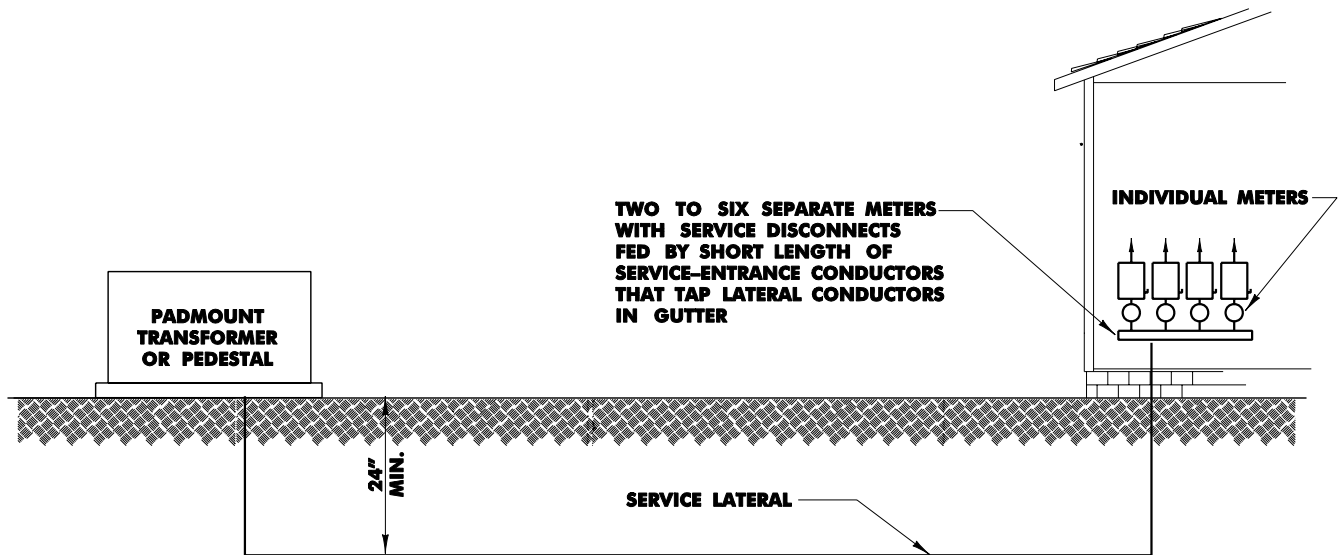
FOR CLEARANCE, SEE SECTION 7.01

IDENTIFY METER WITH SPACE OR APARTMENT NUMBER

**SCHEDULE 80 PVC EMT OR RIGID CONDUIT WILL BE ALLOWED
OUTSIDE ON ANY COMMERCIAL OR MULTI-POSITION
RESIDENTIAL METER PROJECTS**

UNDERGROUND SERVICE

4.05.2



NOTE:

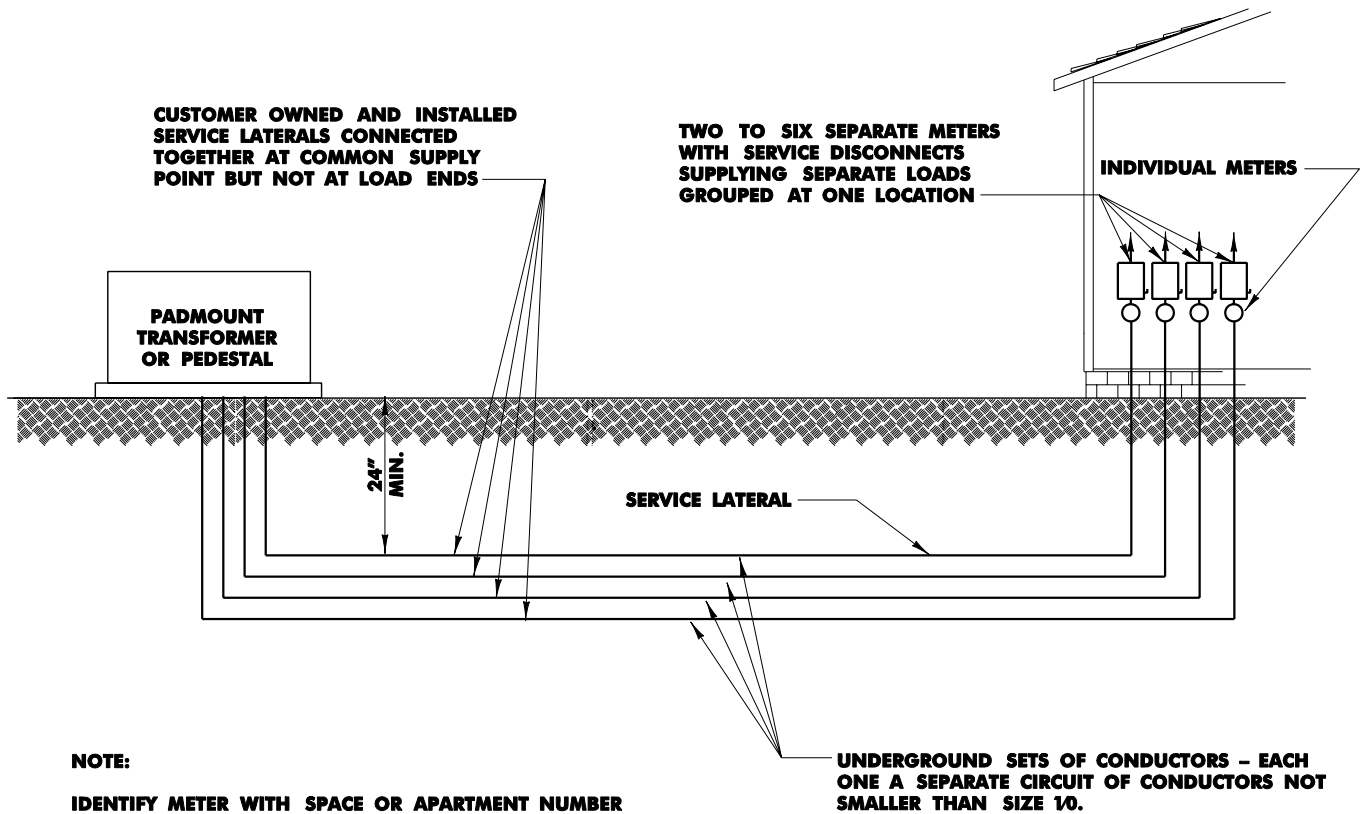
IDENTIFY METER WITH SPACE OR APARTMENT NUMBER

EMT, SCHEDULE 80 PVC, OR RIGID CONDUIT WILL BE ALLOWED OUTSIDE ON ANY COMMERCIAL OR MULTI-POSITION RESIDENTIAL METER PROJECTS

UNDERGROUND SERVICE

GENERAL SERVICE ACCOUNTS

4.05.3



NOTE:

IDENTIFY METER WITH SPACE OR APARTMENT NUMBER

EMT, SCHEDULE 80 PVC, OR RIGID CONDUIT WILL BE ALLOWED OUTSIDE ON ANY COMMERCIAL OR MULTI-POSITION RESIDENTIAL METER PROJECTS

DIAGRAM I

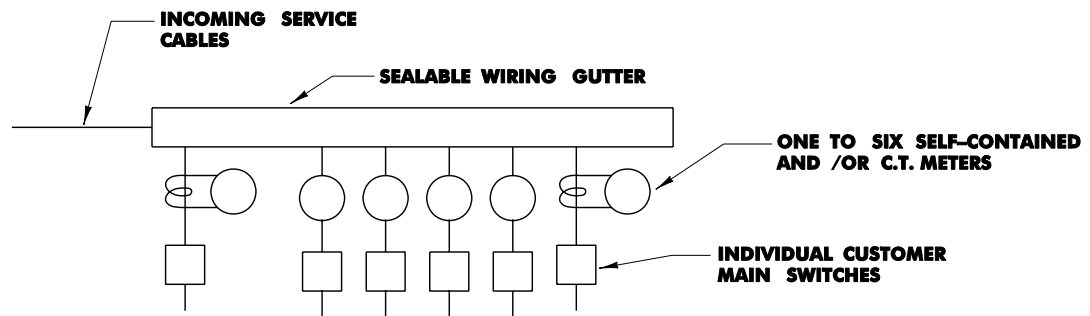


DIAGRAM II

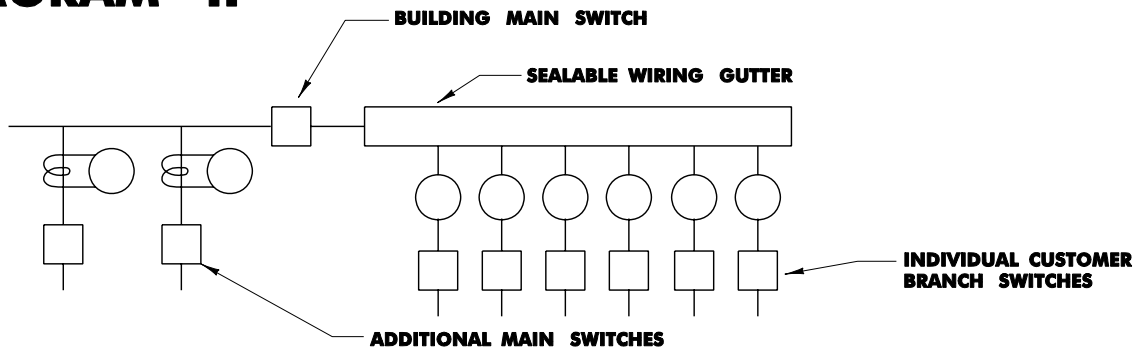
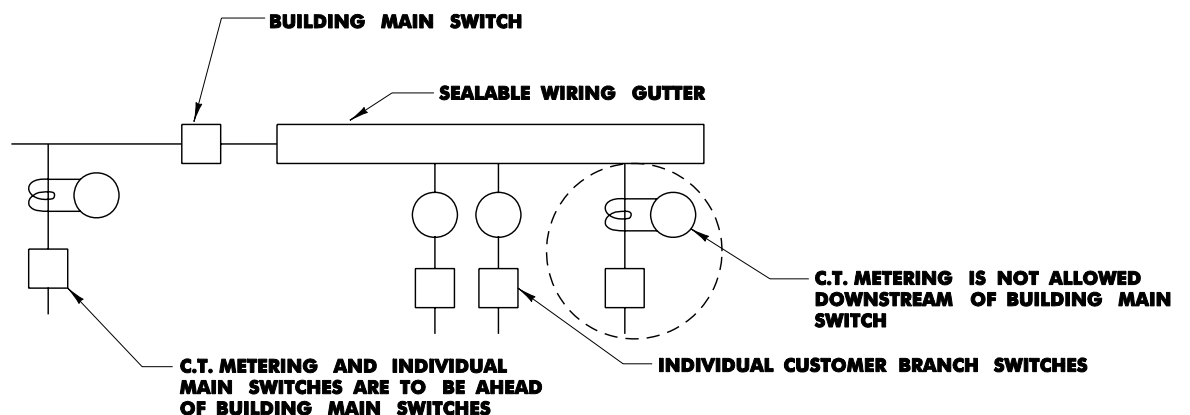


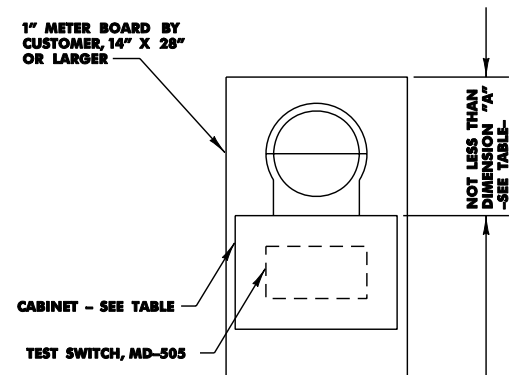
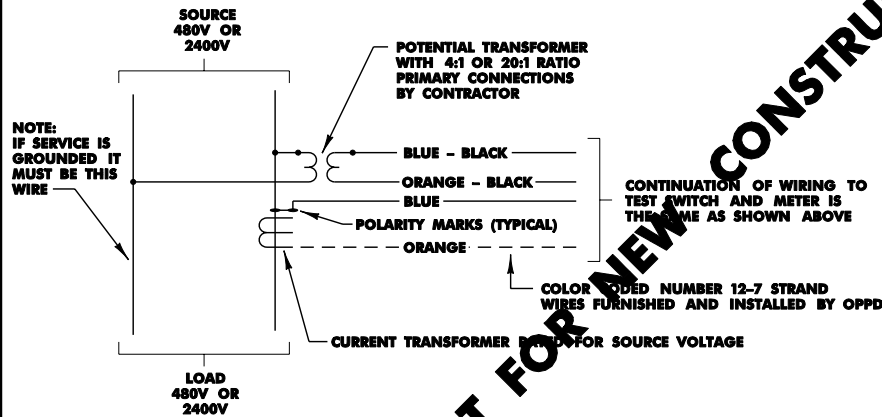
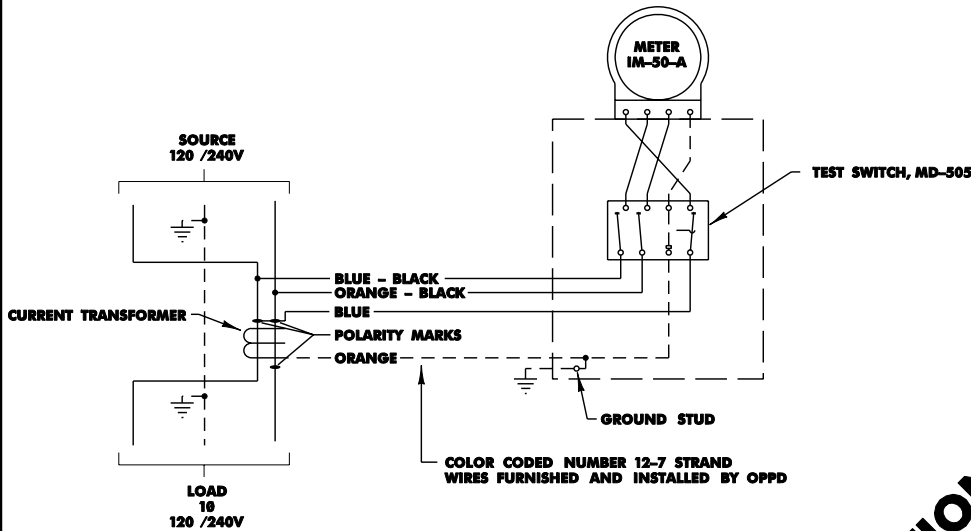
DIAGRAM III (NOT ALLOWED)



SINGLE PHASE "A" BASE METERING

FOR USE WITH INSTRUMENT TRANSFORMERS

4.06.2



- TABLE -

SERVICE	CABINET	DIMENSION "A"
120 /240 V	MD - 1190	12"
480 V	MD - 1190-B	17"
2400 V	MD - 1190-B	17"

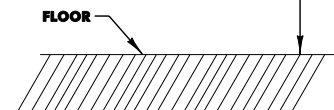
NOTES:

CUSTOMER TO FURNISH AND INSTALL "NATIONAL ELECTRICAL CODE" GRADE STEEL CABINET OF ADEQUATE SIZE FOR THE INSTRUMENT TRANSFORMERS AND ALL WIRING CONNECTIONS

SERVICE ENTRANCE NEUTRAL MUST BE BONDED TO CURRENT TRANSFORMER CABINET

CUSTOMER TO FURNISH AND INSTALL 1" CONDUIT FROM INSTRUMENT TRANSFORMER CABINET TO METER CABINET

FOR LUG CONNECTIONS ON CURRENT TRANSFORMER UP TO 600 AMPERES MINIMUM BOLT SIZE 3/8" OVER 600 AMPERES MINIMUM BOLT SIZE 1/2"

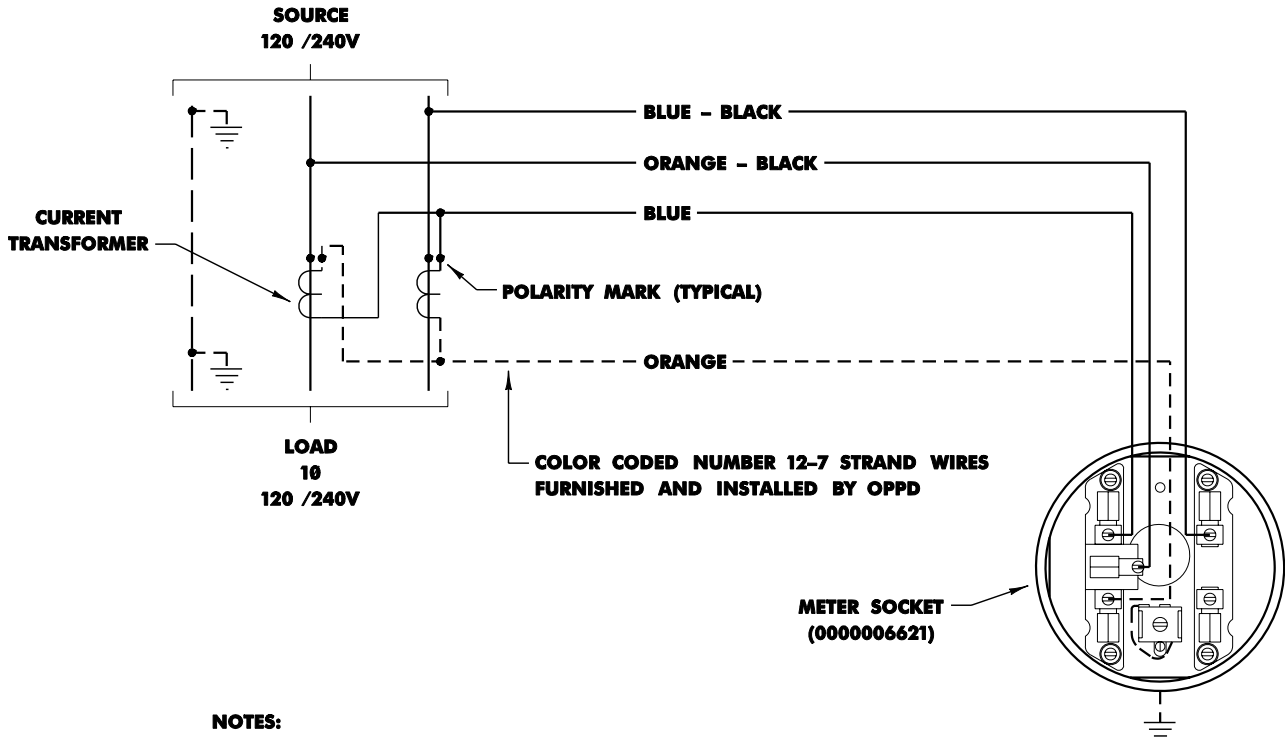


SINGLE PHASE SOCKET METERING

120 /240V 1Ø 3W
OVER 400 AMPERES
FOR USE WITH INSTRUMENT TRANSFORMERS

4.06.3

M171
M171D



NOTES:

CUSTOMER TO FURNISH AND INSTALL "NATIONAL ELECTRICAL CODE" GRADE STEEL CABINET OF ADEQUATE SIZE FOR THE INSTRUMENT TRANSFORMERS AND ALL WIRING CONNECTIONS.

SERVICE ENTRANCE NEUTRAL MUST BE BONDED TO CURRENT TRANSFORMER CABINET.

CUSTOMER TO FURNISH AND INSTALL 1" CONDUIT FROM INSTRUMENT TRANSFORMER CABINET TO METER SOCKET.

FOR LUG CONNECTIONS ON CURRENT TRANSFORMERS UP TO 600 AMPERES MINIMUM BOLT SIZE 3/8" OVER 600 AMPERES MINIMUM BOLT SIZE 1/2".

REFER TO DWGS:

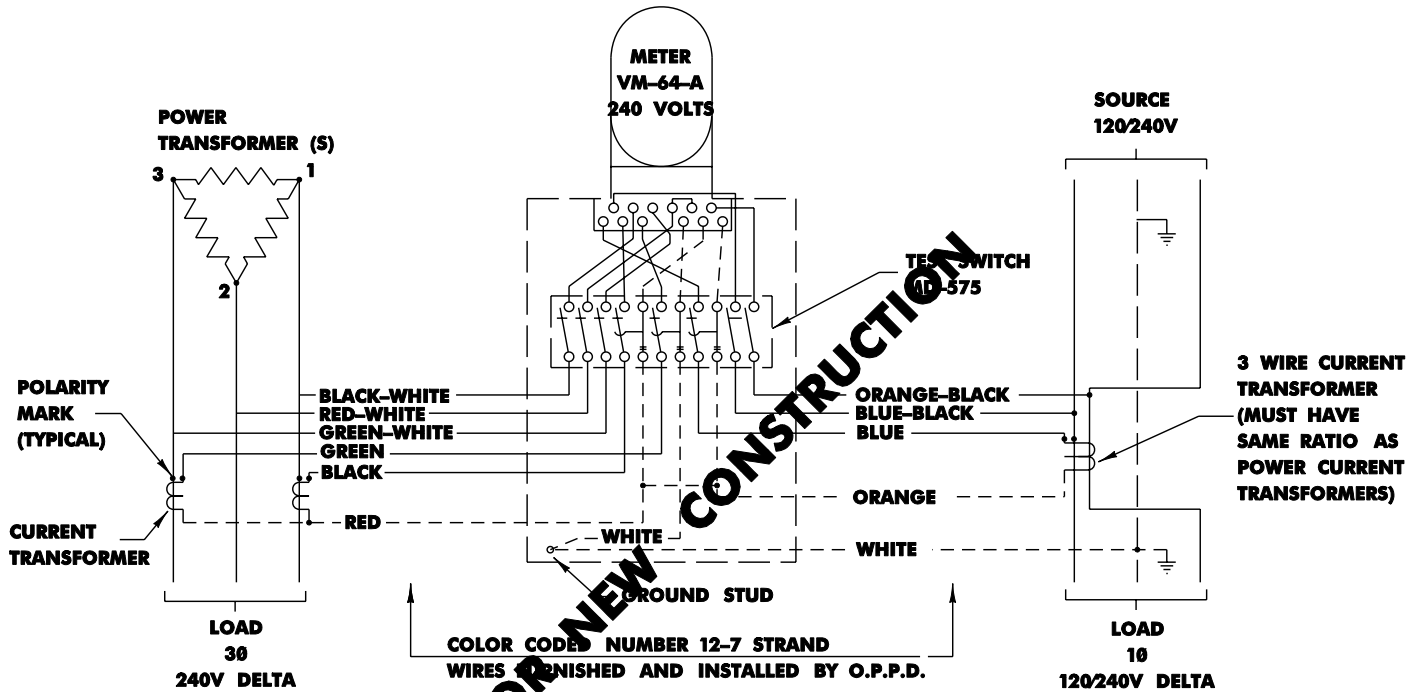
RESIDENTIAL & GENERAL SERVICE OVERHEAD: 6.10
RESIDENTIAL UNDERGROUND: 7.07
GENERAL SERVICE UNDERGROUND: 8.06

SIX WIRE TOTALIZED METERING

FOR USE WITH CURRENT TRANSFORMERS

4.06.4

M670DM



NOT FOR NEW CONSTRUCTION

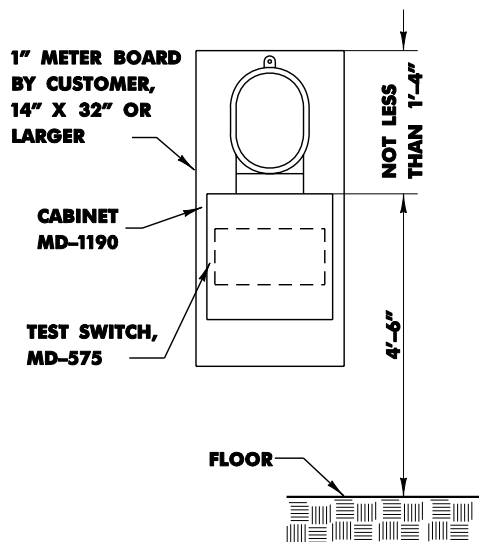
NOTES:

CUSTOMER TO FURNISH AND INSTALL "NATIONAL ELECTRICAL CODE" GRADE STEEL CABINET OF ADEQUATE SIZE FOR THE CURRENT TRANSFORMERS AND ALL WIRING CONNECTIONS

SERVICE ENTRANCE NEUTRAL MUST BE BONDED TO CURRENT TRANSFORMER CABINET

CUSTOMER TO FURNISH AND INSTALL 1 1/4" CONDUIT FROM CURRENT TRANSFORMER CABINET TO METER CABINET

FOR LUG CONNECTIONS ON CURRENT TRANSFORMERS UP TO 600 AMPERES MINIMUM BOLT SIZE 3/8" OVER 600 AMPERES MINIMUM BOLT SIZE 1/2"

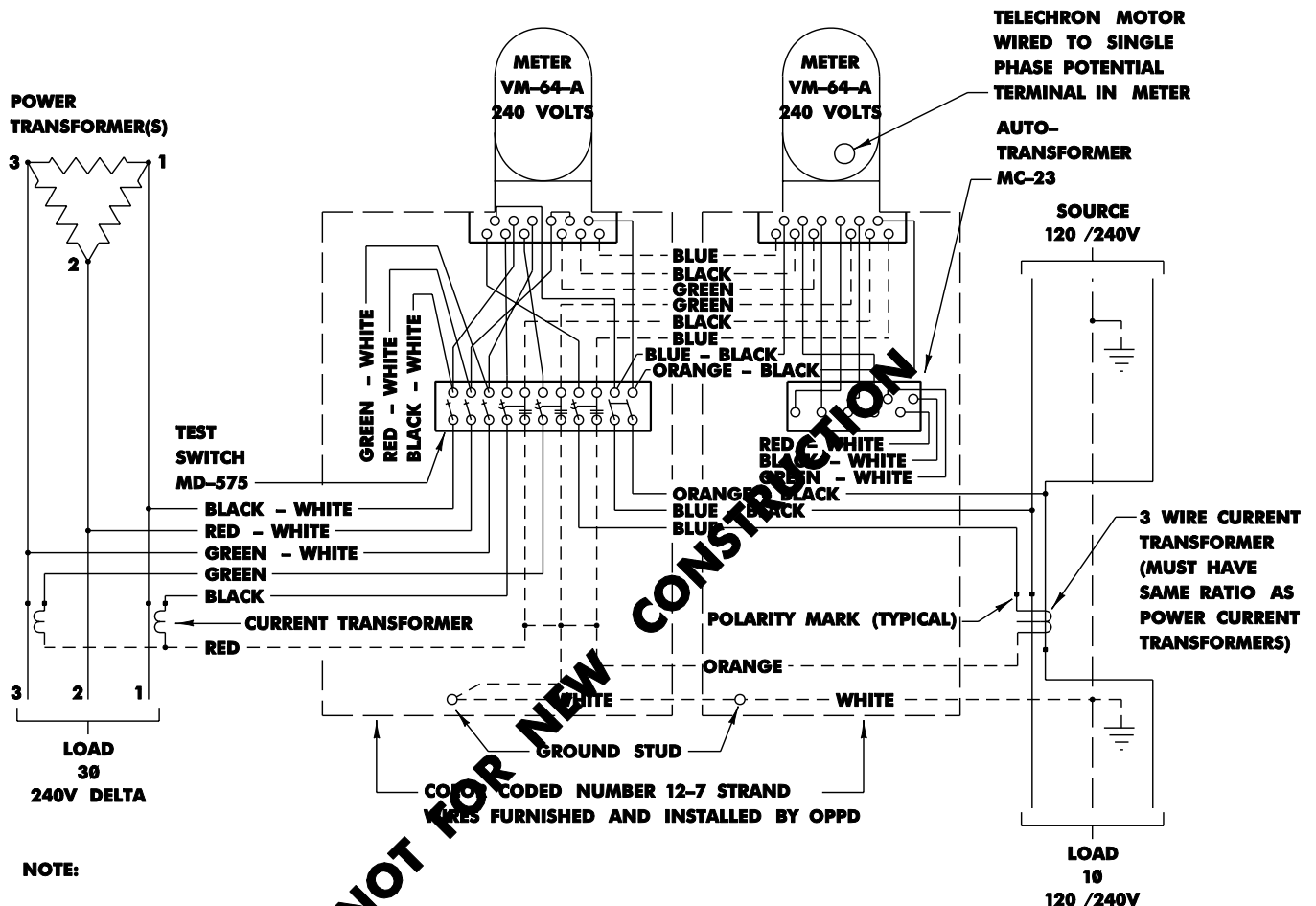


SIX WIRE TOTALIZED METERING

KW AND KVA - FOR USE WITH CURRENT TRANSFORMERS

4.06.5

M680DM



NOTE:

PHASE ROTATION ON
POTENTIAL AT THE
METER MUST BE 1 -
2 - 3 BY TEST

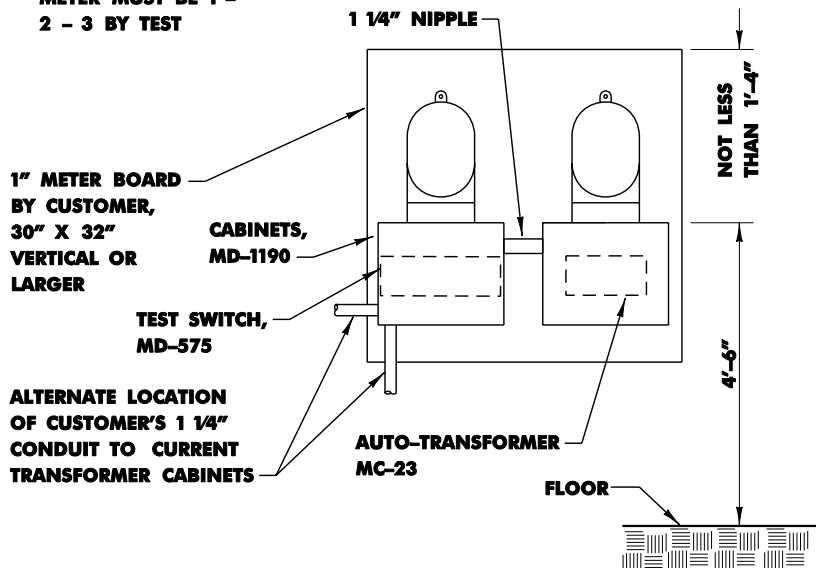
NOTES:

CUSTOMER TO FURNISH AND INSTALL "NATIONAL
ELECTRICAL CODE" GRADE STEEL CABINET
OF ADEQUATE SIZE FOR THE CURRENT TRANSFORMERS
AND ALL WIRING CONNECTIONS.

SERVICE ENTRANCE NEUTRAL MUST BE BONDED TO
CURRENT TRANSFORMER CABINET.

CUSTOMER TO FURNISH AND INSTALL 1 1/4" CONDUIT
FROM CURRENT TRANSFORMER CABINET TO METER
CABINET.

FOR LUG CONNECTIONS ON CURRENT TRANSFORMERS
UP TO 600 AMPERES MINIMUM BOLT SIZE 3/8" OVER
600 AMPERES MINIMUM BOLT SIZE 1/2".

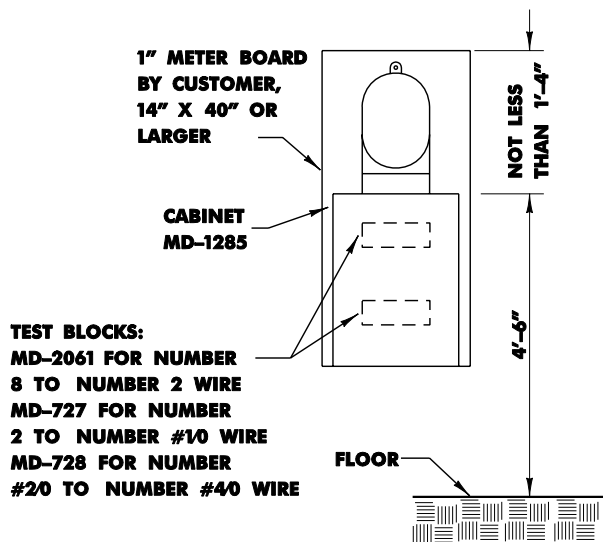
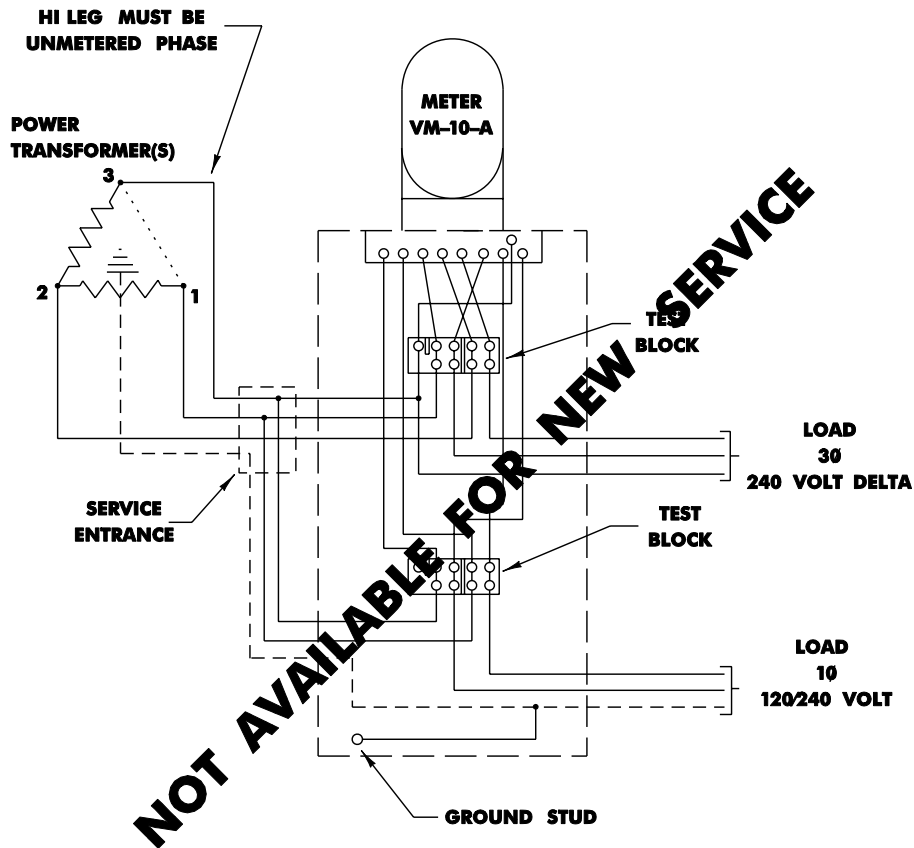


SIX WIRE TOTALIZED METERING

CLASS 45 - RATING 11KVA 1Ø AND 19KVA 3Ø - ON BALANCED LOAD
CLASS 125 - RATING 30KVA 1Ø AND 52KVA 3Ø - ON BALANCED LOAD

4.06.6

M690

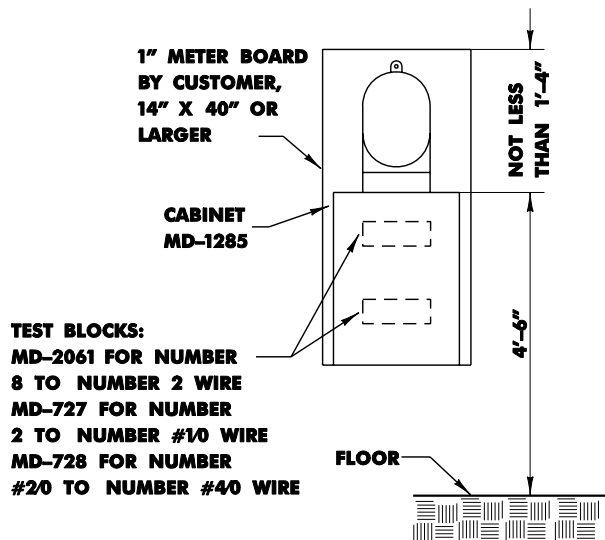
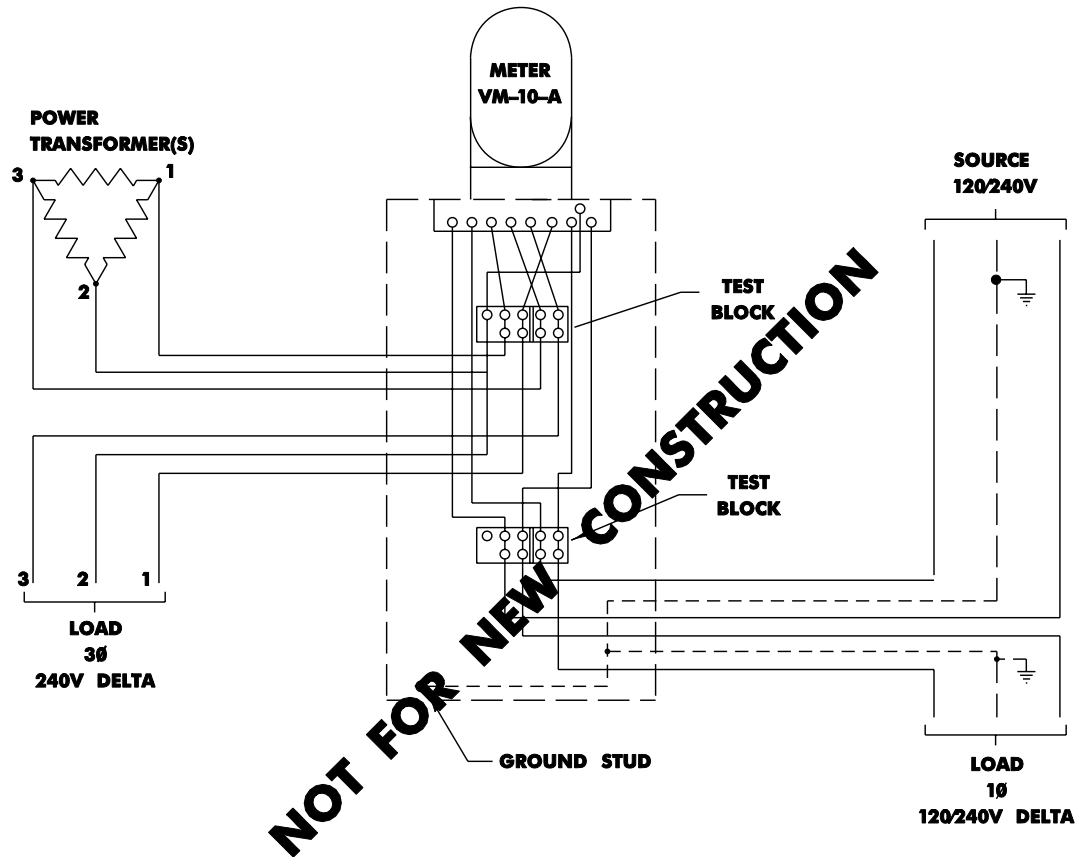


SIX WIRE TOTALIZED METERING

CLASS 45 - RATING 11KVA 1Ø AND 19KVA 3Ø - ON BALANCED LOAD
CLASS 125 - RATING 30KVA 1Ø AND 52KVA 3Ø - ON BALANCED LOAD

4.06.7

M691



3Ø THREE WIRE DELTA METERING

FOR USE WITH INSTRUMENT TRANSFORMER

4.06.8

RMV ONLY: M380D

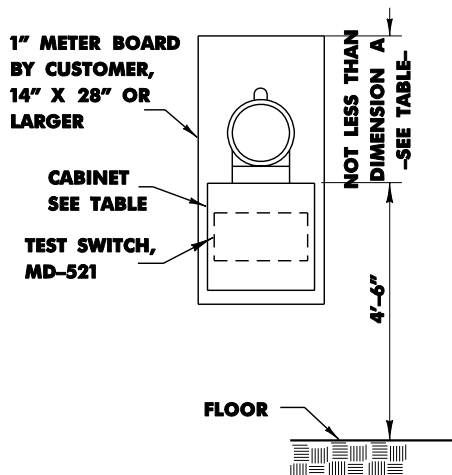
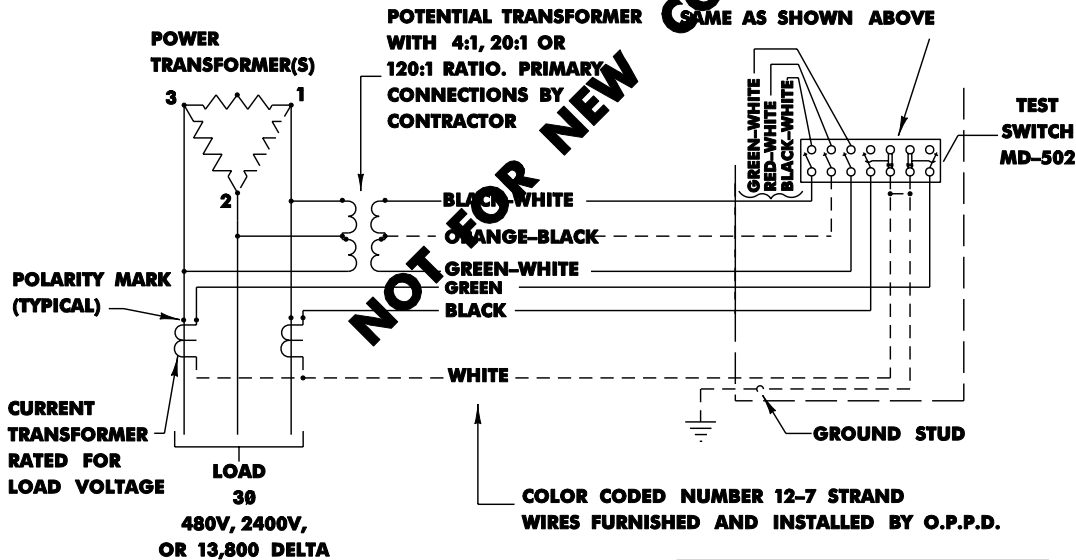
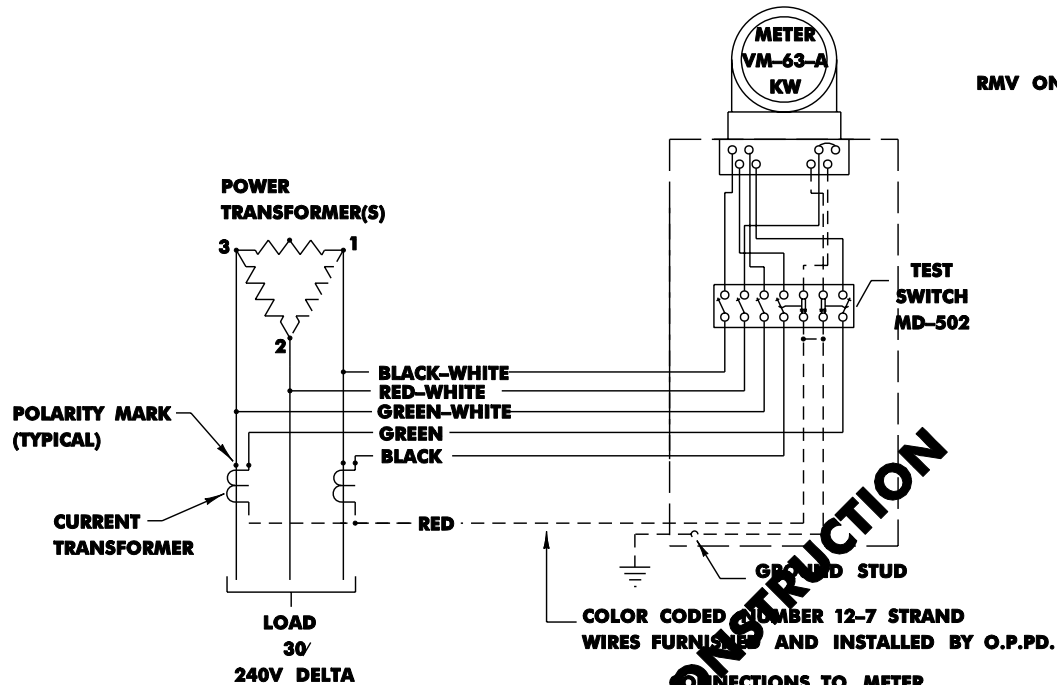


TABLE		
SERVICE	CABINET	DIMENSION A
240V	MD-1190	12"
480V	MD-1190-B	17"
2400V	MD-1190-B	17"
13,800V	MD-1190-B	17"

NOTES:

CUSTOMER TO FURNISH AND INSTALL "NATIONAL ELECTRICAL CODE" GRADE STEEL CABINET OF ADEQUATE SIZE FOR THE INSTRUMENT TRANSFORMERS AND ALL WIRING CONNECTIONS

CUSTOMER TO FURNISH AND INSTALL 1" CONDUIT FROM INSTRUMENT TRANSFORMER CABINET TO METER CABINET

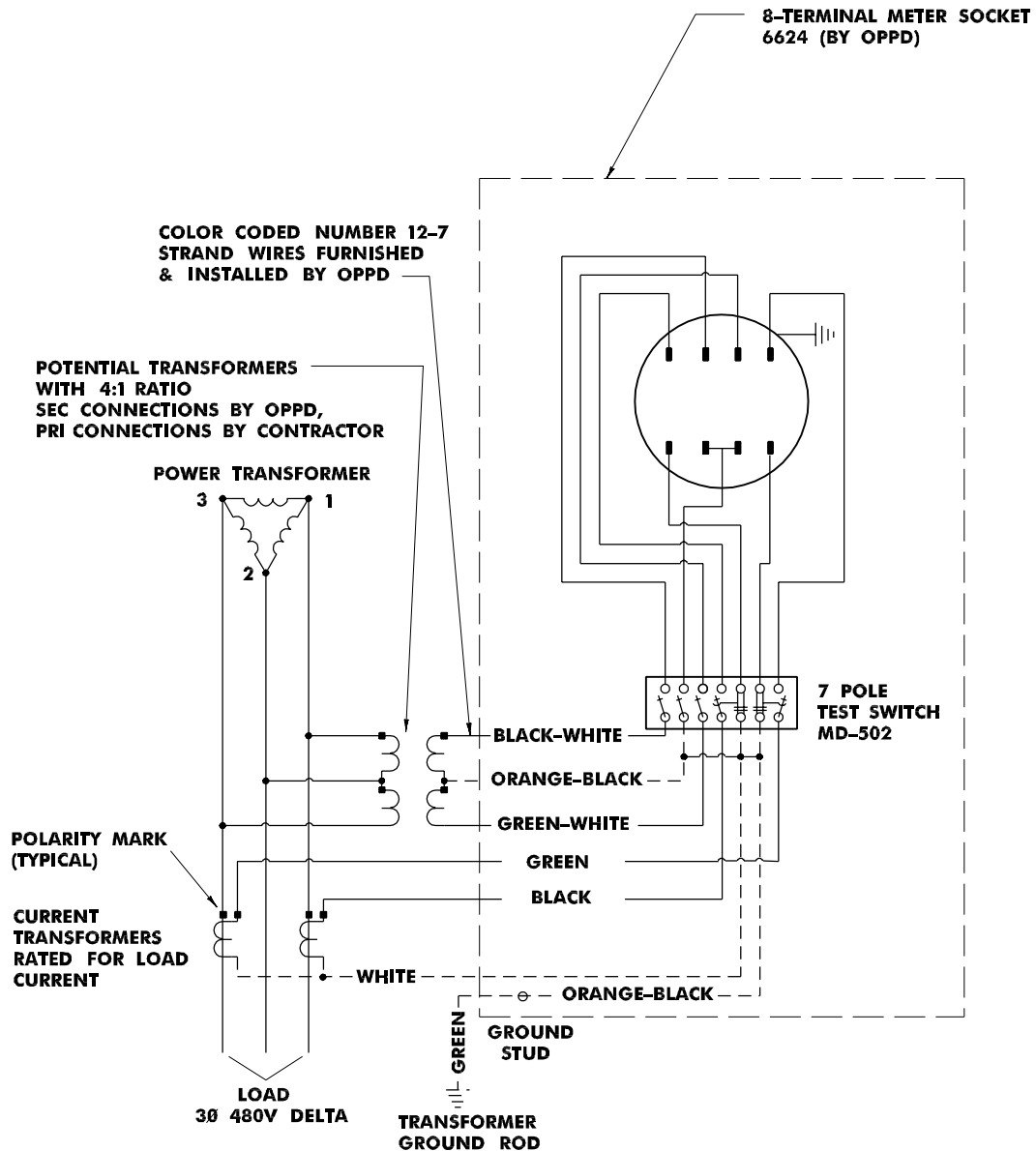
FOR LUG CONNECTIONS ON INSTRUMENT TRANSFORMERS UP TO 600 AMPERES MINIMUM BOLT SIZE 3/8" OVER 600 AMPERES MINIMUM BOLT SIZE 1/2"

3Ø THREE WIRE DELTA METERING

240V 3W DELTA
480V 3W DELTA – FOR MAINTENANCE ONLY

4.06.9

M371D
M381D
M383D



REFER TO DWG: 8.06

3Ø THREE WIRE DELTA METERING

FOR USE WITH INSTRUMENT TRANSFORMER

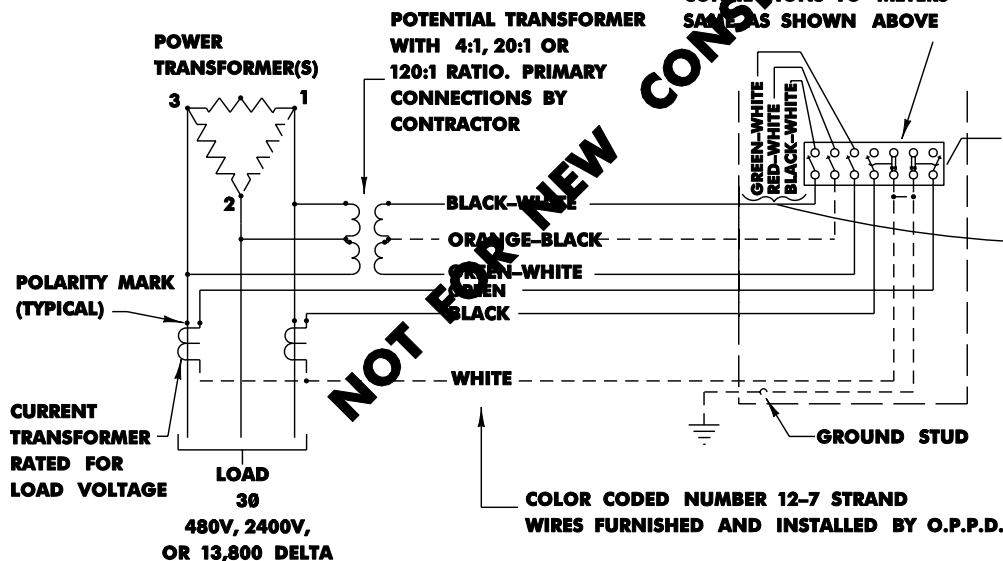
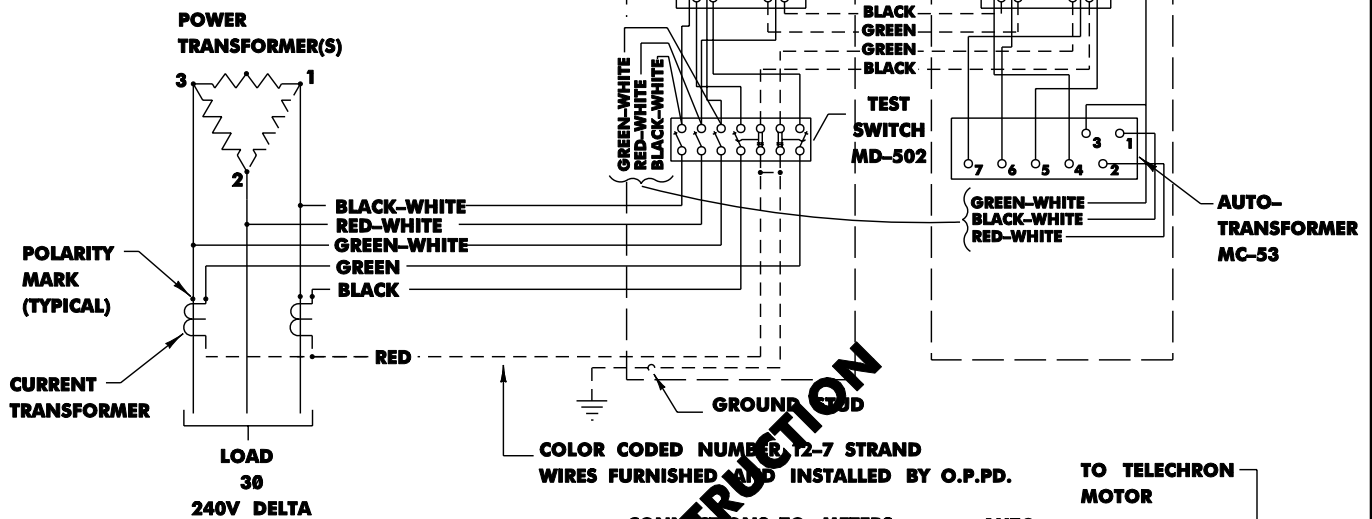
4.06.10

TELECHRON MOTOR

WIRED OUT
SEPARATELY

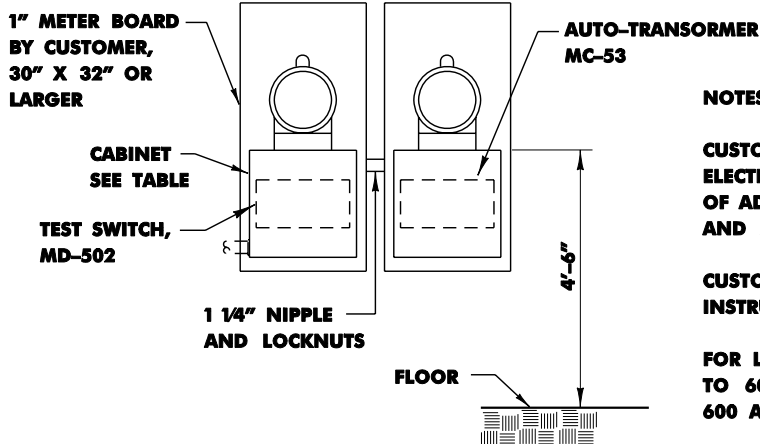
METER
VM-63-A
KW

METER
VM-63-A
KVA



TABLE

SERVICE	CABINET
240V	MD-1190
480V	MD-1190-B
2400V	MD-1190-B
13,800V	MD-1190-B



NOTES:

CUSTOMER TO FURNISH AND INSTALL "NATIONAL ELECTRICAL CODE" GRADE STEEL CABINET OF ADEQUATE SIZE FOR THE INSTRUMENT TRANSFORMERS AND ALL WIRING CONNECTIONS

CUSTOMER TO FURNISH AND INSTALL 1" CONDUIT FROM INSTRUMENT TRANSFORMER CABINET TO METER CABINET

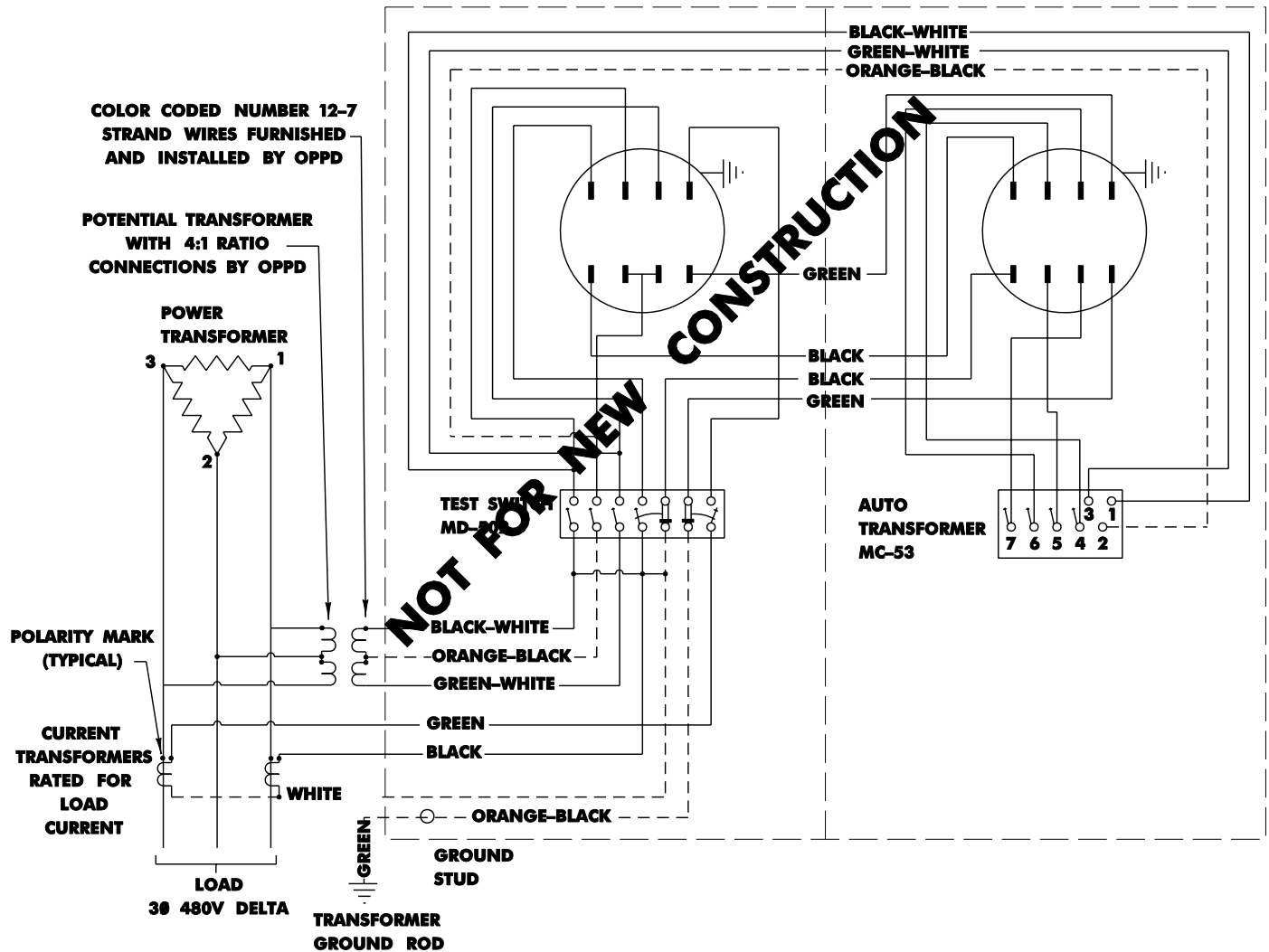
FOR LUG CONNECTIONS ON INSTRUMENT TRANSFORMERS UP TO 600 AMPERES MINIMUM BOLT SIZE 3/8" OVER 600 AMPERES MINIMUM BOLT SIZE 1/2"

3Ø THREE WIRE DELTA METERING

KW AND KVA

4.06.11

M383D



REFER TO DWG: 8.06

4.06.12

ISSUED DATE

3Ø FOUR WIRE WYE METERING

KW - FOR USE WITH INSTRUMENT TRANSFORMERS

4.06.14

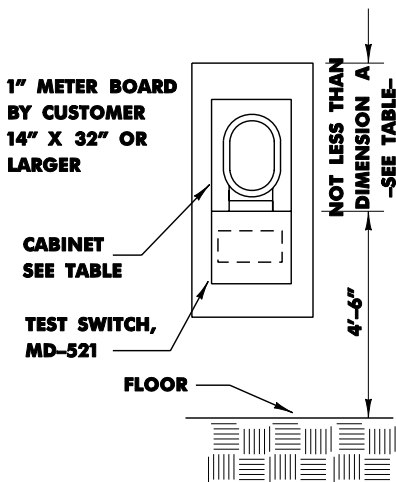
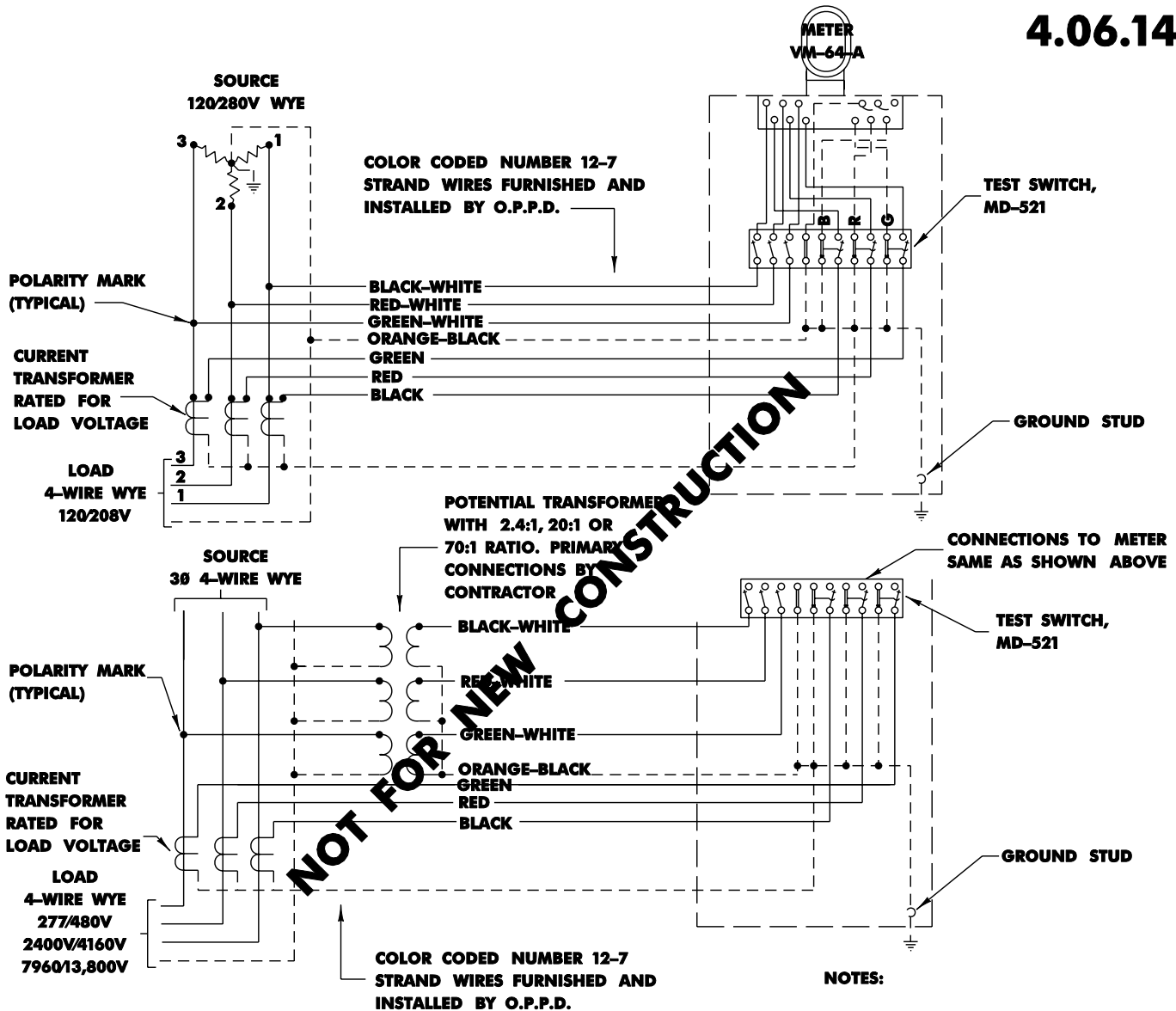


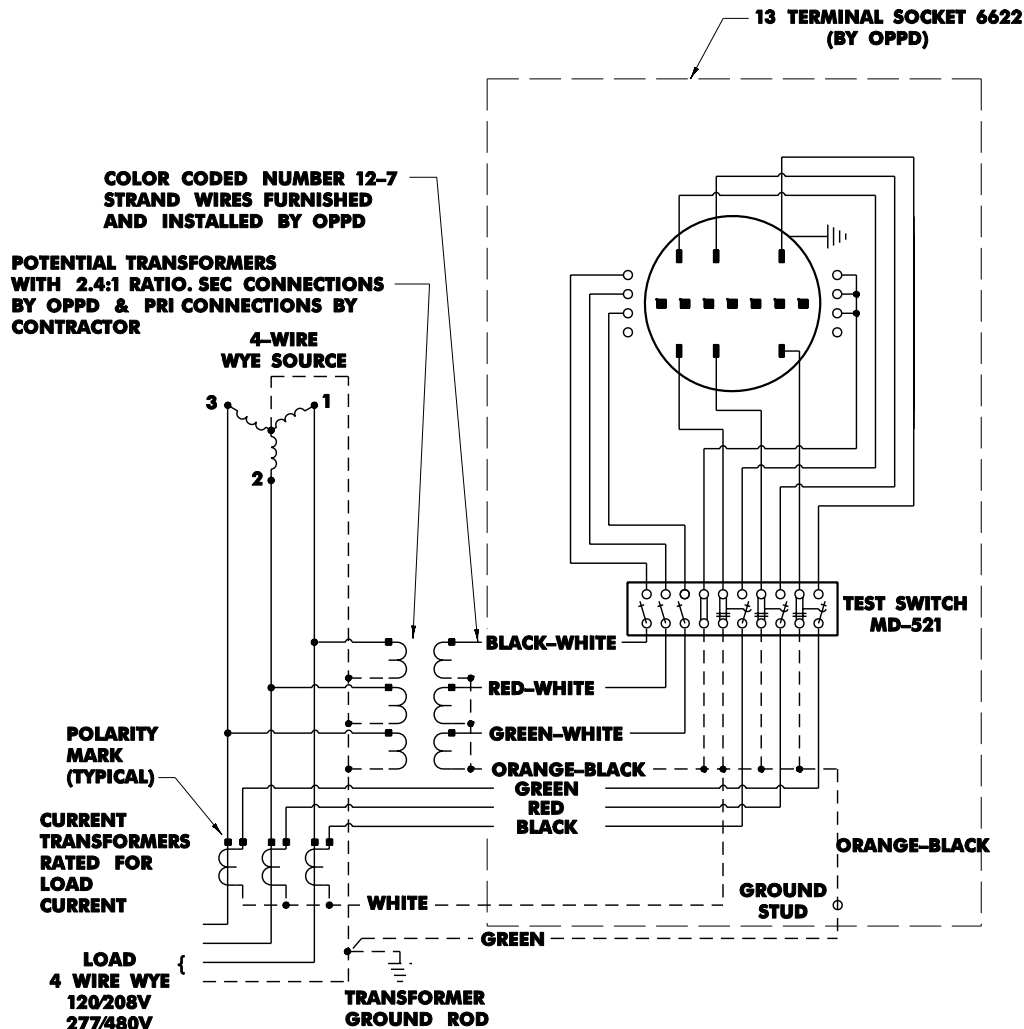
TABLE		
SERVICE	CABINET	DIMENSION A
120/208V	MD-1190	16"
277/480V	MD-1190-B	17"
2400/4160V	MD-1190-B	17"
7960/13,800V	MD-1190-B	17"

3Ø FOUR WIRE WYE METERING

KW

4.06.15

M471D
M472D
M483D



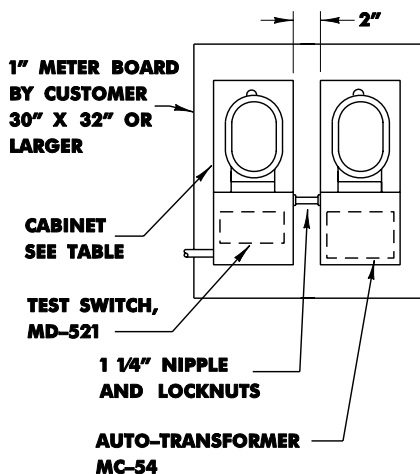
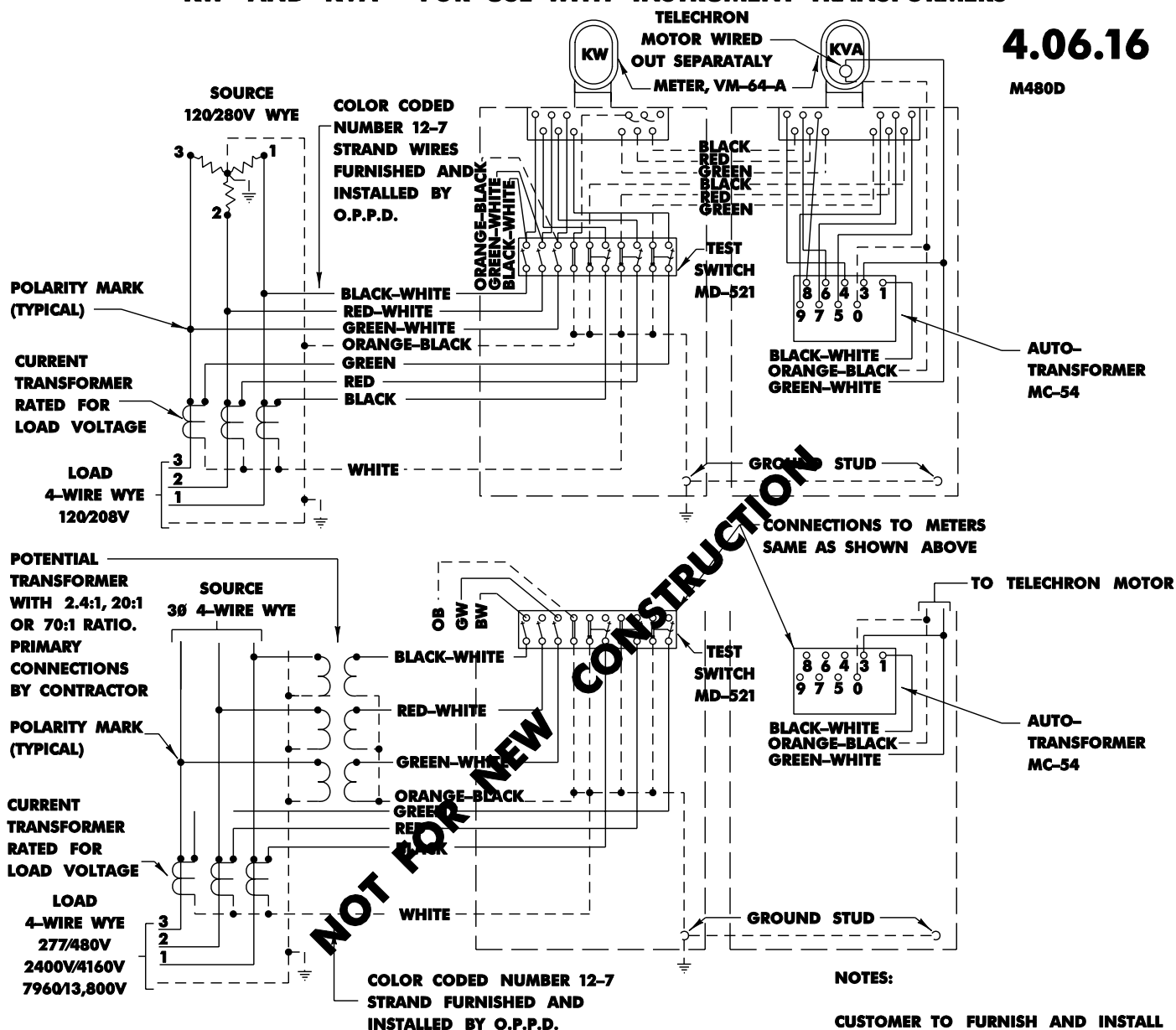
REFER TO DWG: 8.06

3Ø FOUR WIRE WYE METERING

KW AND KVA - FOR USE WITH INSTRUMENT TRANSFORMERS

4.06.16

M480D



NOT LESS THAN
DIMENSION A
-SEE TABLE-

TABLE		
SERVICE	CABINET	DIMENSION A
120/208V	MD-1190	16"
277/480V	MD-1190-B	17"
2400/4160V	MD-1190-B	17"
7960/13,800V	MD-1190-B	17"

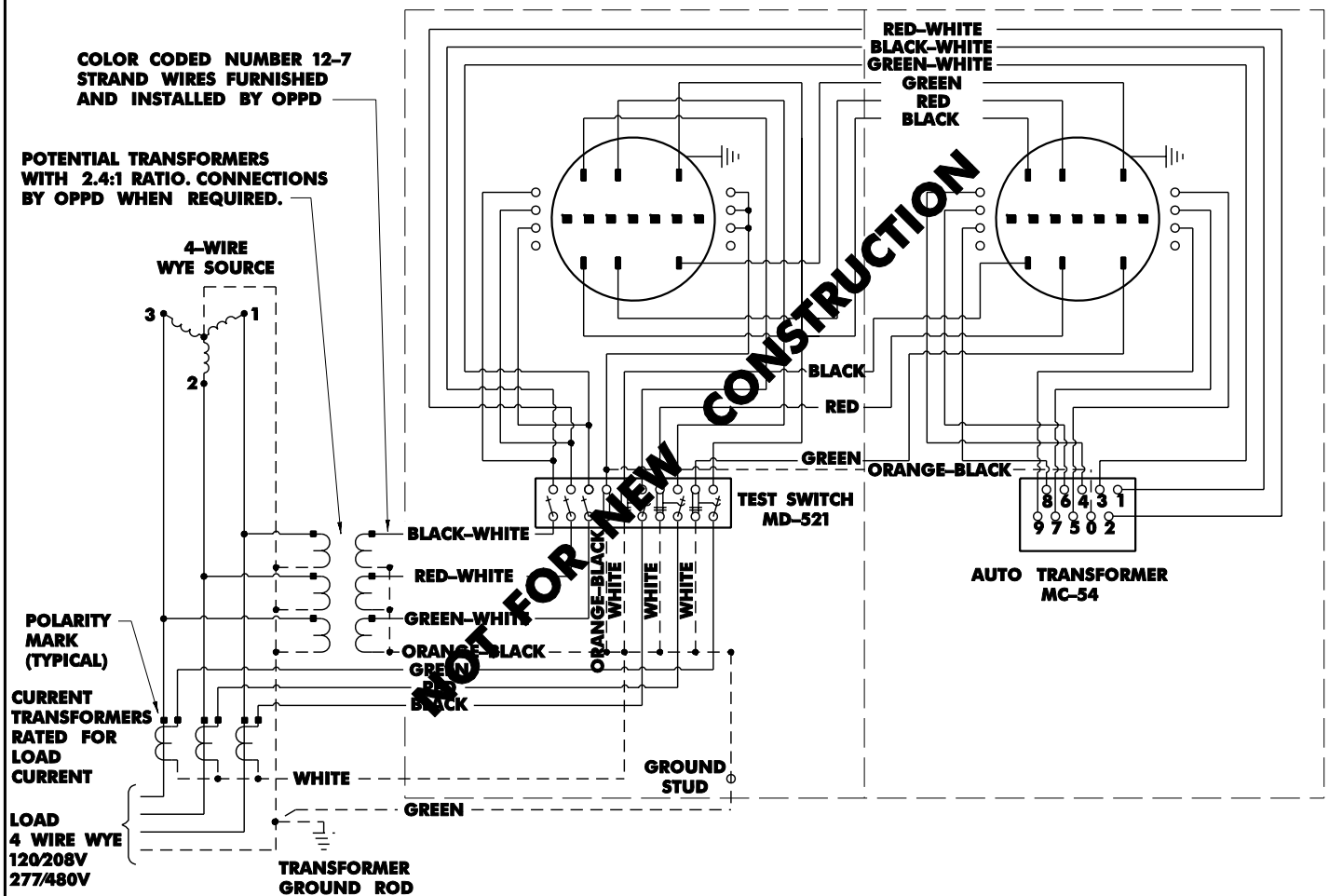


3Ø FOUR WIRE WYE METERING

KW AND KVA

4.06.17

M481D

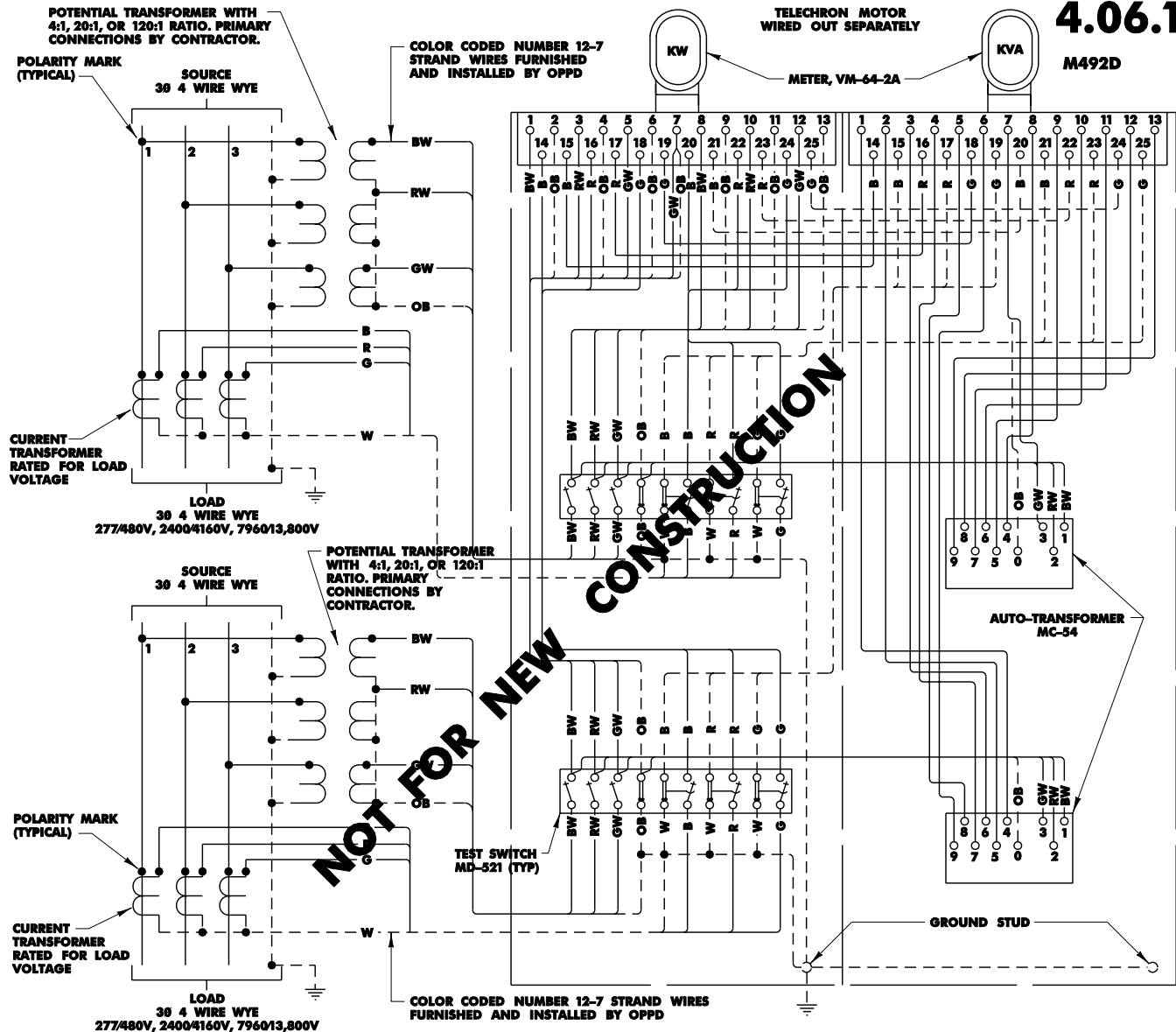


REFER TO DWG: 8.06

TWO CIRCUIT TOTALIZED METERING

FOR USE WITH INSTRUMENT TRANSFORMERS
KW AND KVA - THREE PHASE FOUR WIRE WYE

4.06.18



1" METER BOARD BY CUSTOMER, 30" X 42" OR LARGER

CABINETS, MD-1285 1 1/4" NIPPLES BETWEEN

TEST SWITCHES, MD-521

BOTH CONDUITS TO THIS CABINET

AUTO-TRANSFORMERS, MC-54

NOT LESS THAN 1'-4"

4'-6"

FLOOR

NOTES:

FOR LUG CONNECTIONS ON CURRENT TRANSFORMERS UP TO 600 AMPERES MINIMUM BOLT SIZE 3/8" OVER 600 AMPERES MINIMUM BOLT SIZE 1/2".

CUSTOMER TO FURNISH AND INSTALL "NATIONAL ELECTRICAL CODE" GRADE STEEL CABINETS OF ADEQUATE SIZE FOR THE INSTRUMENT TRANSFORMERS AND ALL WIRING CONNECTIONS.

CUSTOMER TO FURNISH AND INSTALL SEPARATE 1 1/4" CONDUITS FROM EACH INSTRUMENT TRANSFORMER CABINET TO METER TEST CABINET.

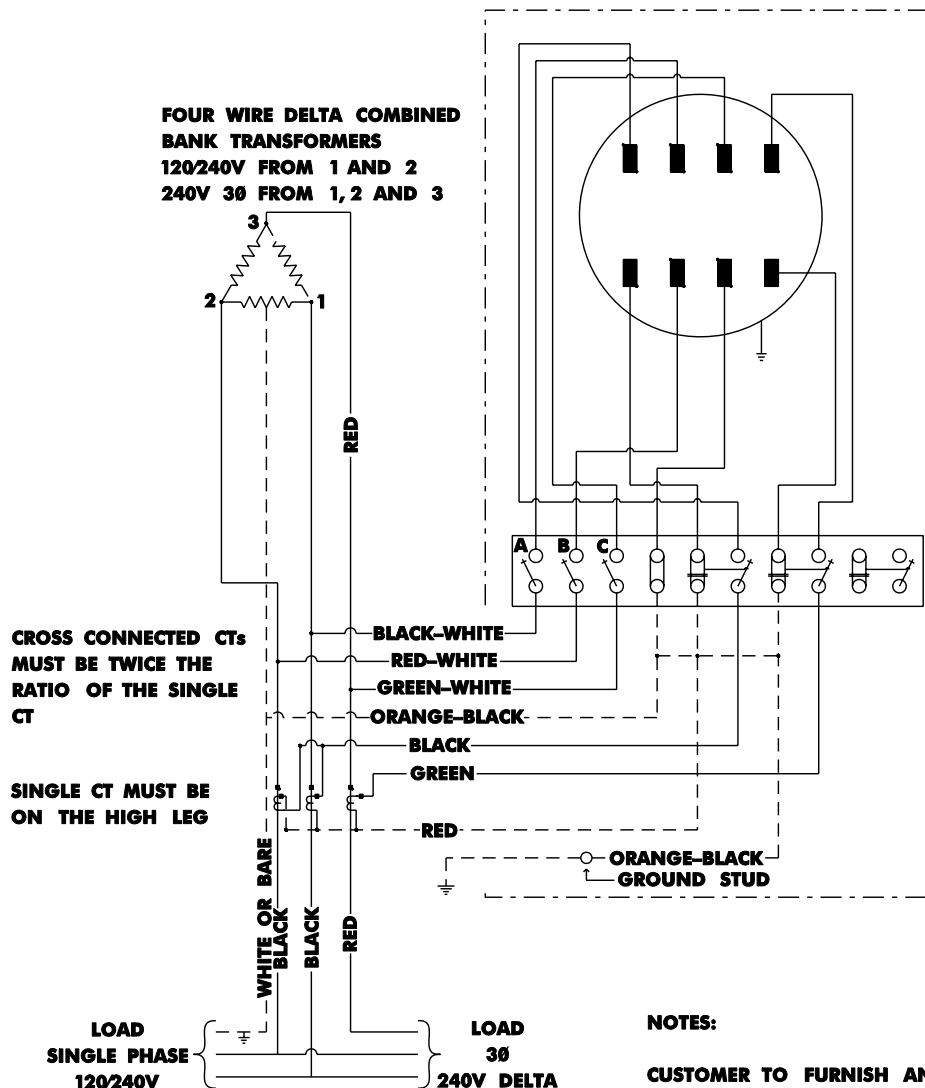
PHASE ROTATION AT THE METER MUST BE 1-2-3 BY TEST.

FOUR WIRE DELTA METERING

FOR USE WITH CURRENT TRANSFORMERS

4.06.19

RMV ONLY: M520D



CUSTOMER TO FURNISH AND INSTALL "NATIONAL ELECTRICAL CODE" GRADE STEEL CABINET OF ADEQUATE SIZE FOR THE CURRENT TRANSFORMERS AND ALL WIRING CONNECTIONS

SERVICE ENTRANCE NEUTRAL MUST BE BONDED TO CURRENT TRANSFORMER CABINET
CUSTOMER TO FURNISH AND INSTALL 1" CONDUIT FROM CT CABINET TO METER TEST CABINET

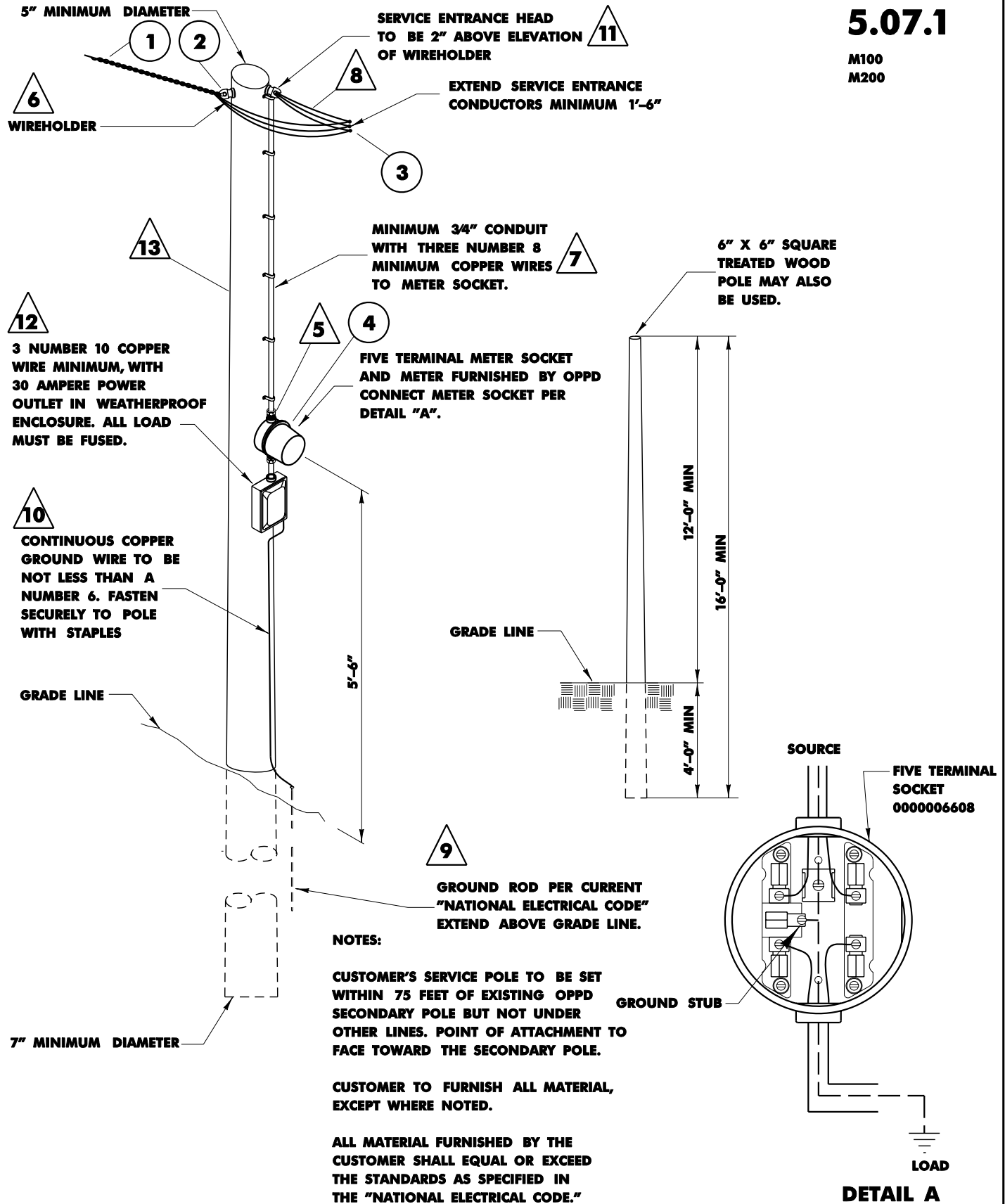
FOR LUG CONNECTIONS ON CURRENT TRANSFORMERS
UP TO 600 AMPERES MINIMUM BOLT SIZE 3/8"
OVER 600 AMPERES MINIMUM BOLT SIZE 1/2"

OVERHEAD TEMPORARY SERVICE POLE

FOR USE DURING CONSTRUCTION

5.07.1

M100
M200

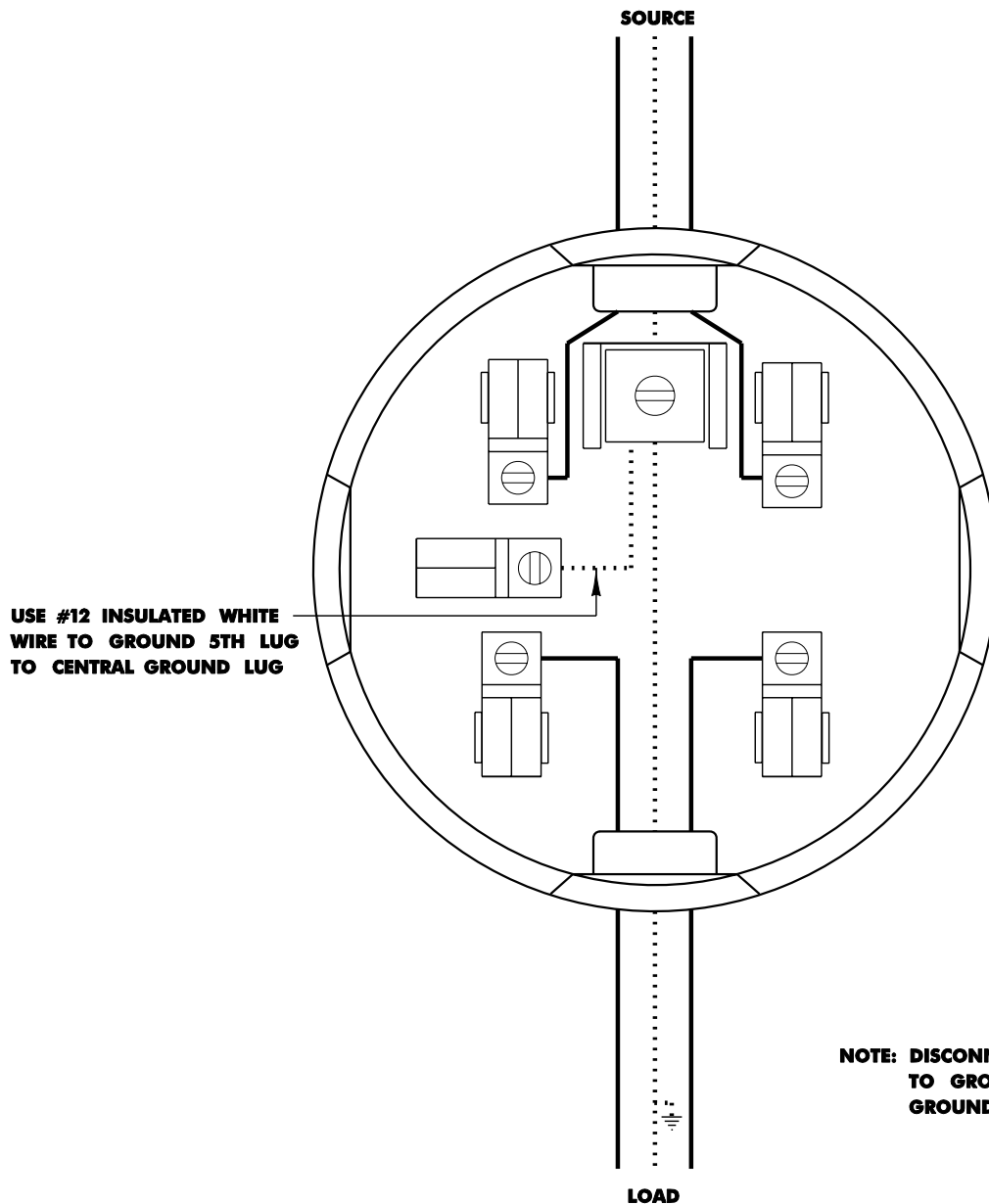


OVERHEAD TEMP. POLE SOCKET

120/208V 1Ø 3W OR 120/240V 1Ø 3W

5.07.2

M104



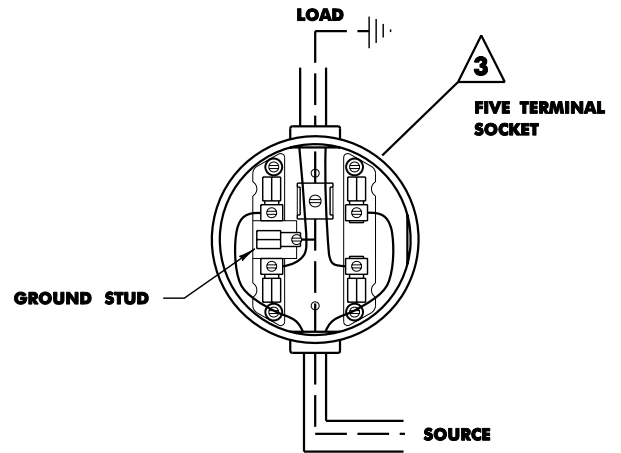
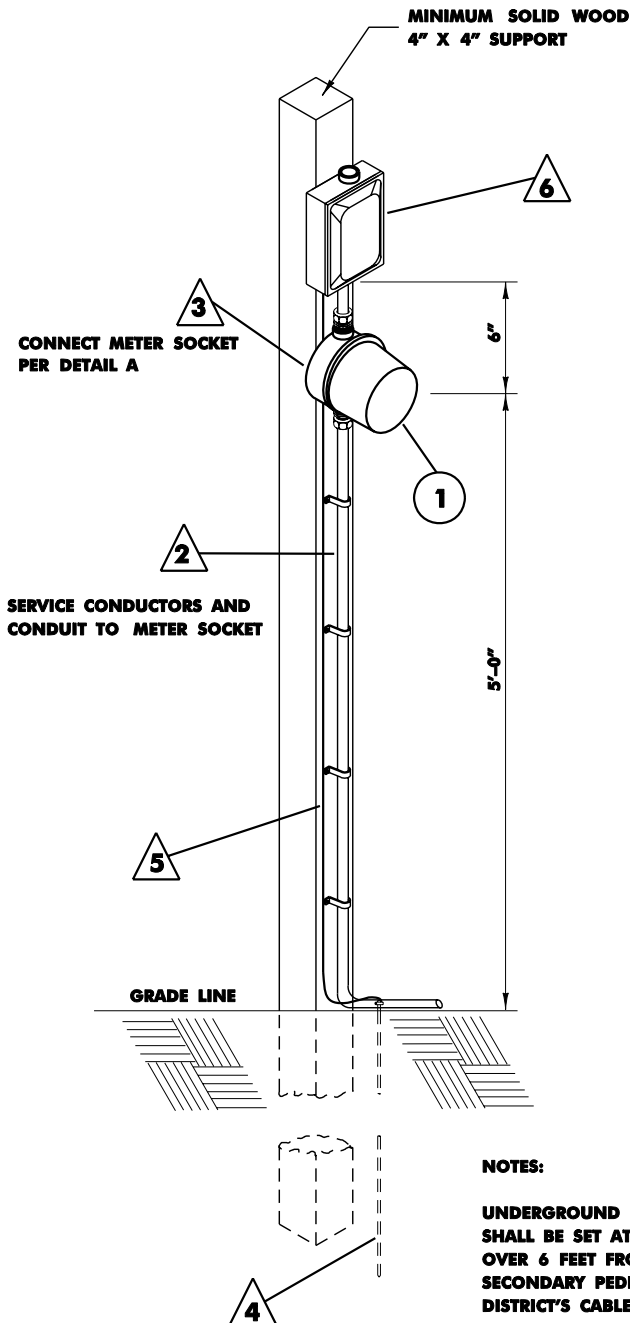
SOCKET LUGS CAN ACCEPT UP TO #2 WIRE

LEVER BY-PASS NOT REQUIRED FOR TEMP SOCKETS

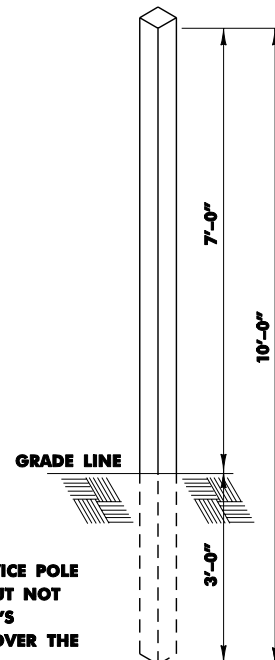
UNDERGROUND TEMPORARY SERVICE POST FOR USE DURING CONSTRUCTION

5.55

M101
M201



DETAIL A



DETAIL B

NOTES:

UNDERGROUND TEMPORARY SERVICE POLE SHALL BE SET AT LEAST 3 FEET BUT NOT OVER 6 FEET FROM THE DISTRICT'S SECONDARY PEDESTAL, BUT NOT OVER THE DISTRICT'S CABLES.

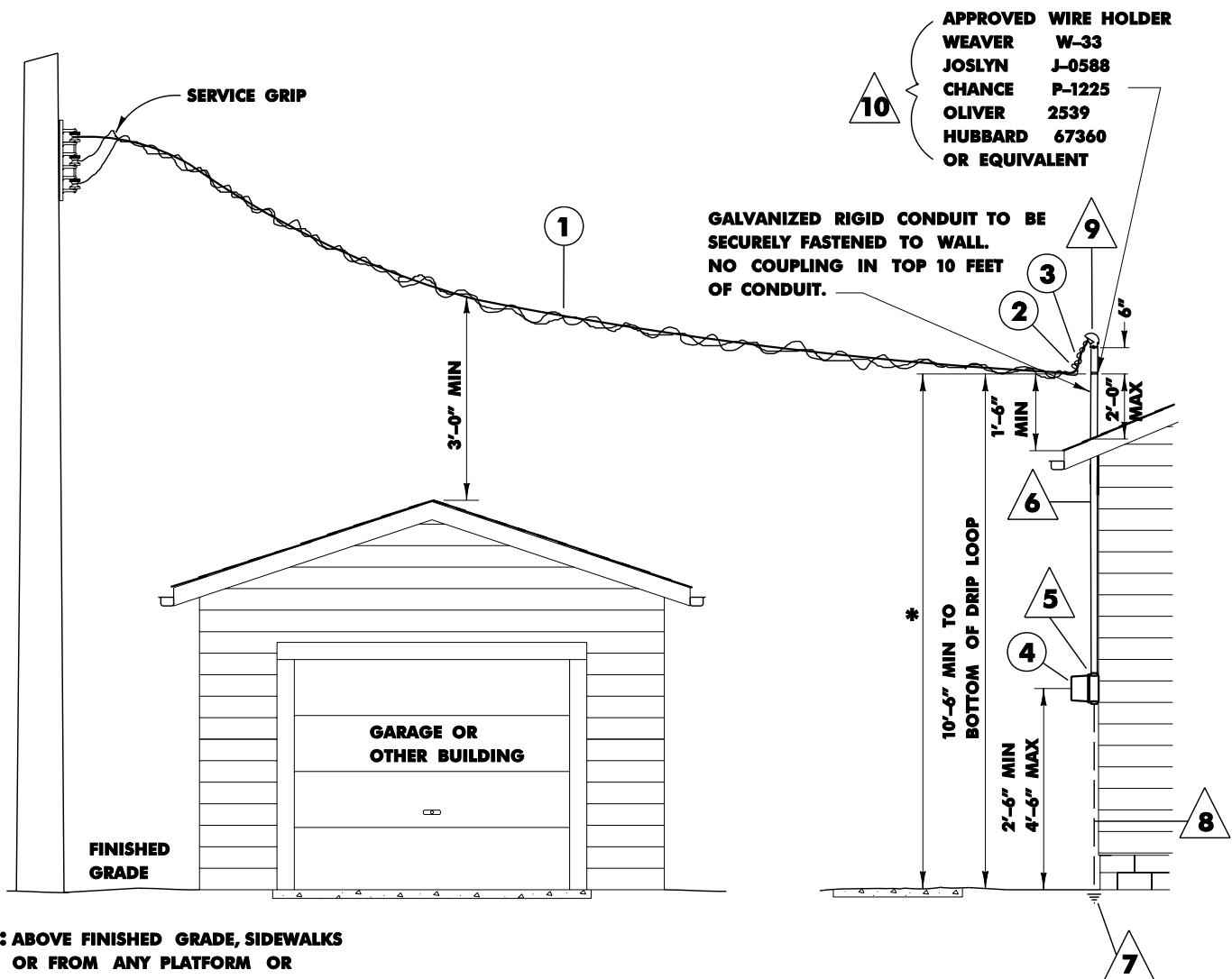
CUSTOMER TO FURNISH ALL MATERIAL, EXCEPT WHERE NOTED.

ALL MATERIAL FURNISHED BY THE CUSTOMER SHALL EQUAL OR EXCEED THE STANDARDS AS SPECIFIED IN THE "NATIONAL ELECTRICAL CODE."

LEVER BY-PASS NOT REQUIRED FOR TEMP SOCKETS.

EXTERIOR SERVICE MAST

6.08.1

M118

***: ABOVE FINISHED GRADE, SIDEWALKS
OR FROM ANY PLATFORM OR
PROJECTION FROM WHICH THE
CONDUCTOR MAY BE REACHED....10.5FT**

OVER RESIDENTIAL DRIVEWAY....15FT

**OVER ROADS, STREETS, AND OTHER
AREAS SUBJECT TO TRUCK TRAFFIC...15.5FT**

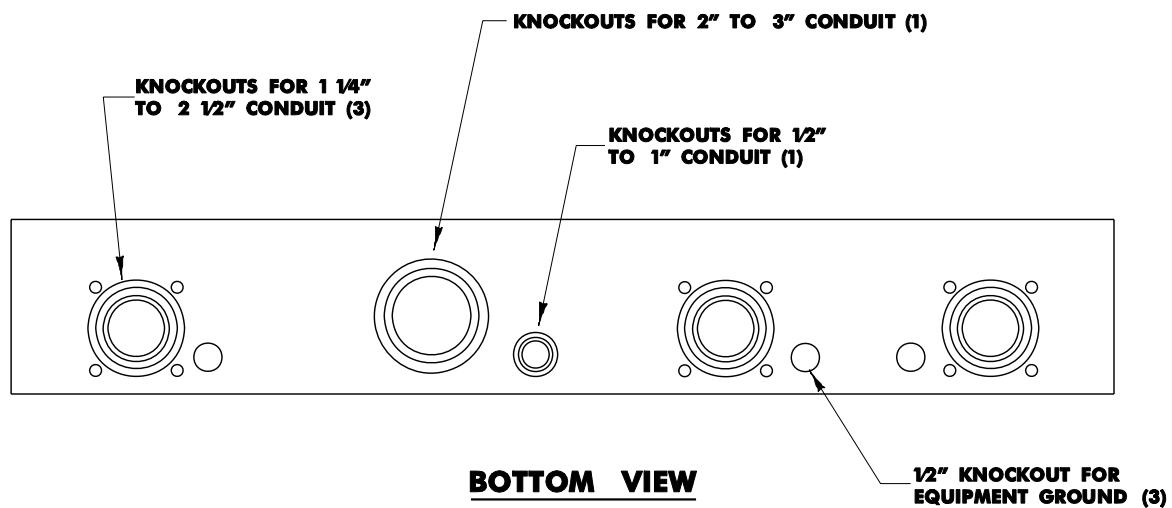
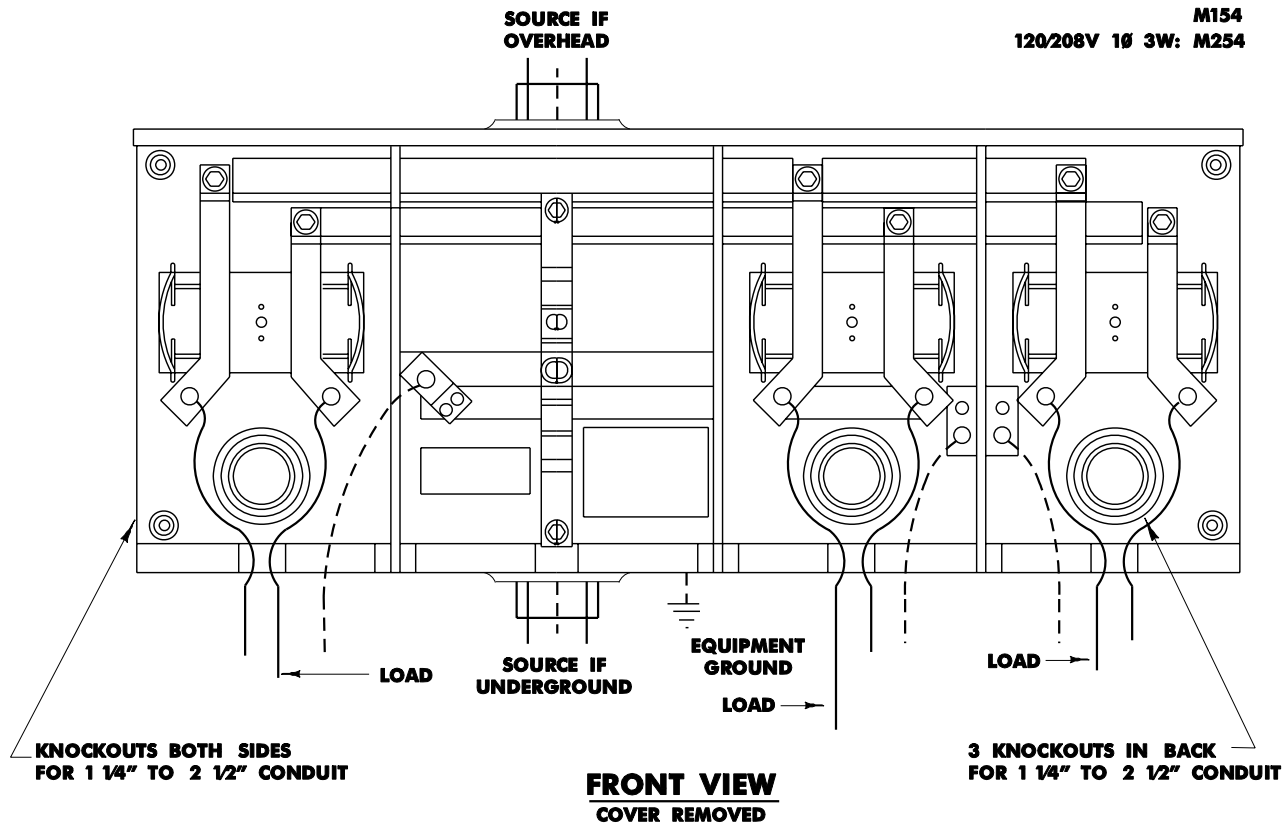
SURFACE TYPE METER SOCKET

120/240 VOLT 3 WIRE OVERHEAD /UNDERGROUND SERVICE ONLY
200 AMPERES PER POSITION

6.08.3

**SOURCE IF
OVERHEAD**

120/208V 1Ø 3W: M254



NOTES:

**SOURCE TERMINALS FOR MAXIMUM 600 KCMIL
CONDUCTORS. LOAD TERMINALS FOR MAXIMUM
350 KCMIL CONDUCTORS.**

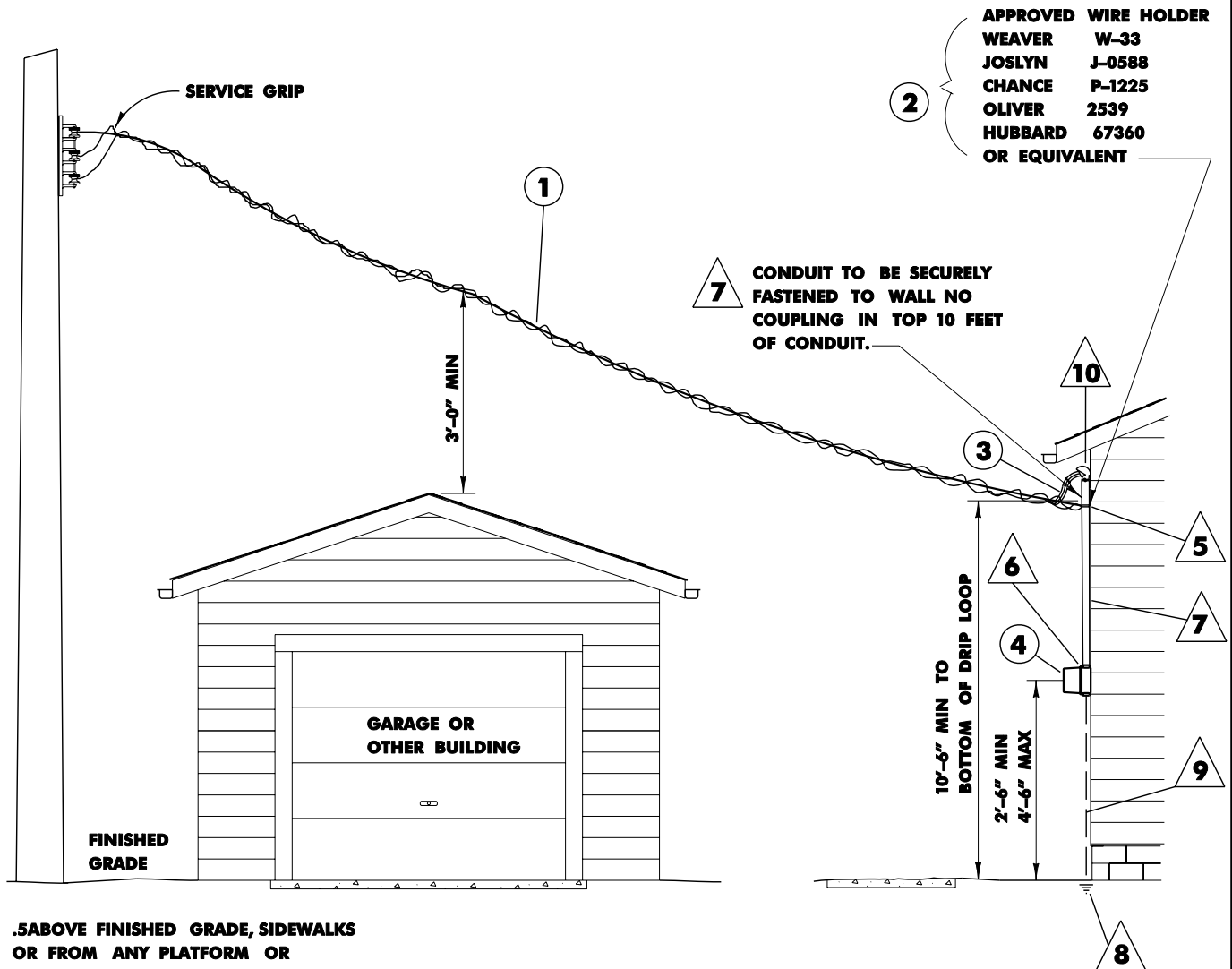
**METER SOCKET ALSO AVAILABLE WITH FIFTH TERMINAL
FOR THREE WIRE WYE SERVICE.**

RESIDENTIAL OVERHEAD SERVICE

SERVICE RISER CONDUIT ON EXTERIOR WALL

6.09

M118



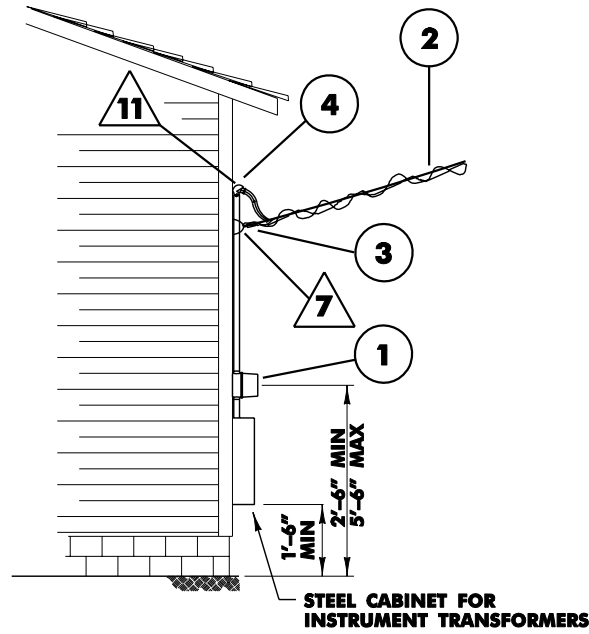
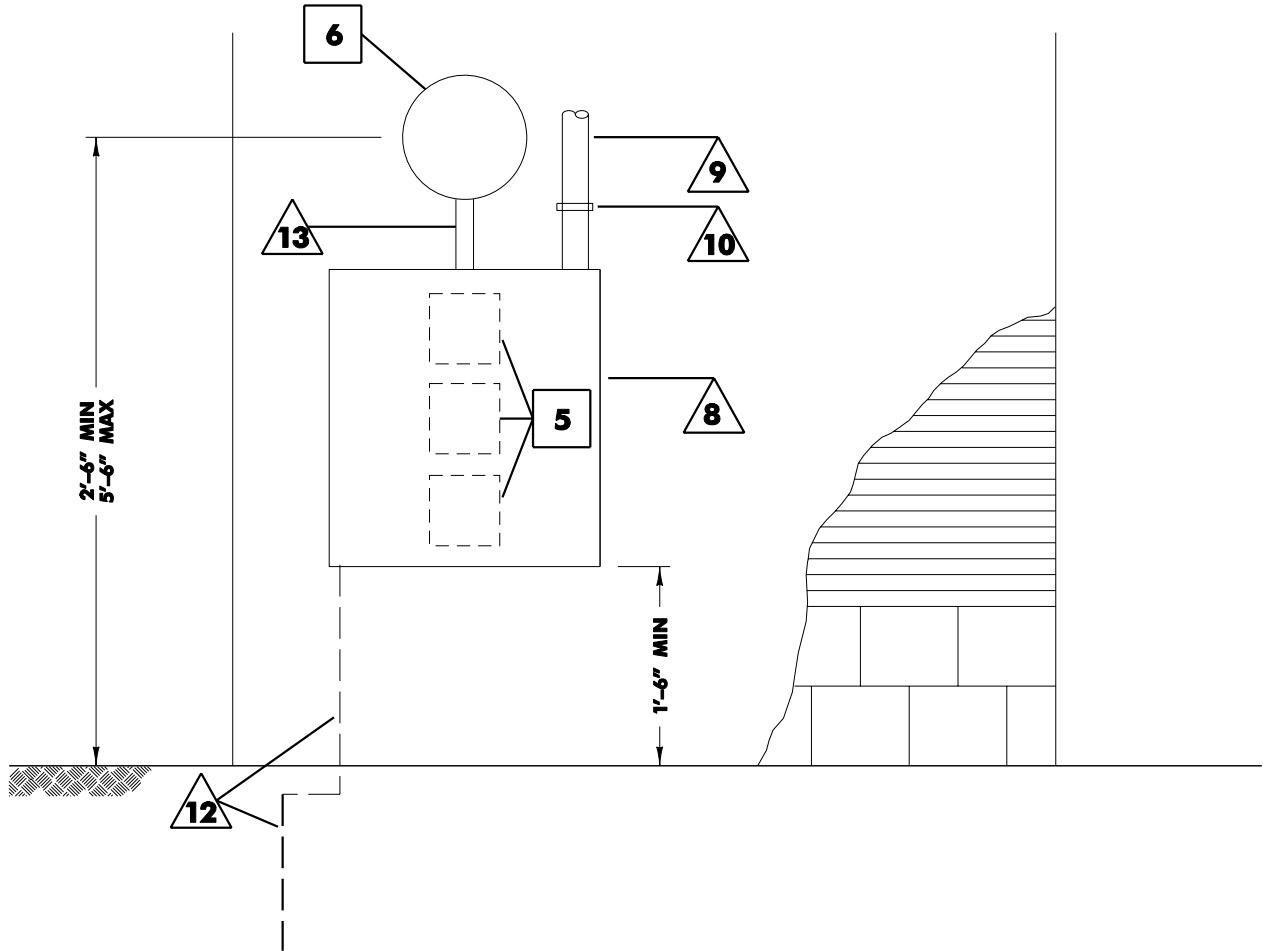
**.5ABOVE FINISHED GRADE, SIDEWALKS
OR FROM ANY PLATFORM OR
PROJECTION FROM WHICH THE
CONDUCTOR MAY BE REACHED....10.5FT**

OVER RESIDENTIAL DRIVEWAY....15FT

**OVER ROADS, STREETS, AND OTHER
AREAS SUBJECT TO TRUCK TRAFFIC....15.5FT.**

**INSTRUMENT TRANSFORMER METERING
RESIDENTIAL & GENERAL SERVICE
OVERHEAD**

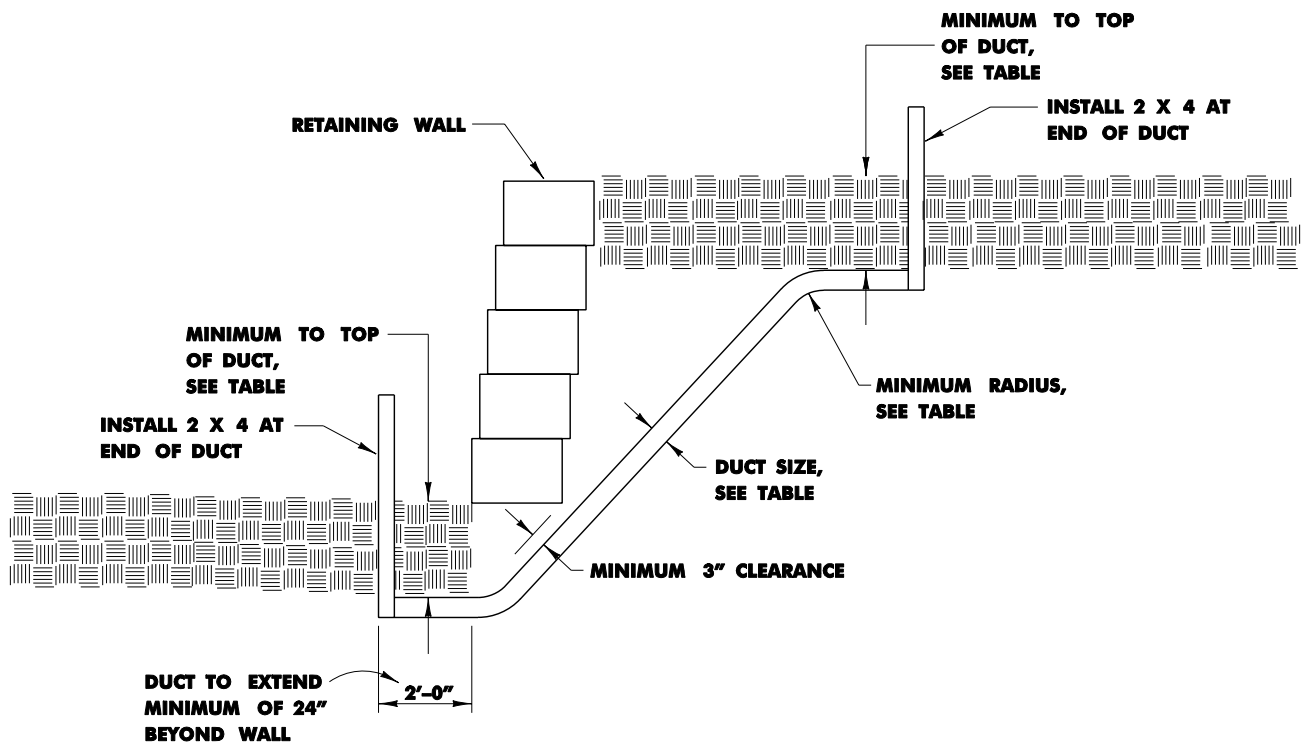
6.10



REFER TO DWG: 4.06.3

CUSTOMER-INSTALLED CONDUIT UNDER RETAINING WALL

7.02.1

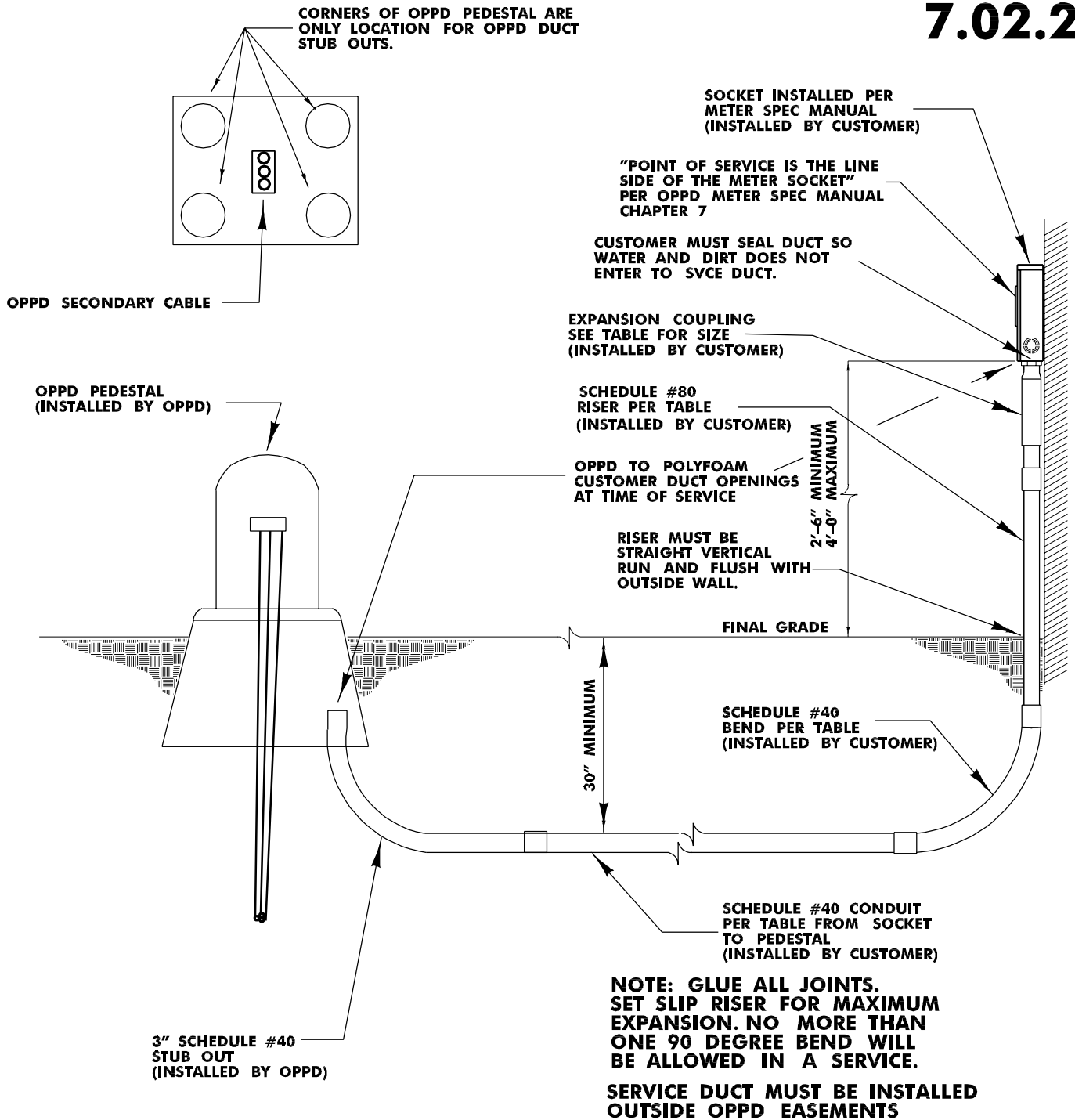


TABLE

CABLE	MINIMUM COVER OVER DUCT	MINIMUM RADIUS OF ALL BENDS	DUCT SIZE
600V OR LESS			
200A HOUSE SERVICE	24 INCHES	24 INCHES	2 1/2 INCHES
320A HOUSE SERVICE	24 INCHES	24 INCHES	3 INCHES
OVER 600V	42 INCHES	36 INCHES	4 INCHES

DUCTED SERVICE REQUIREMENTS

7.02.2

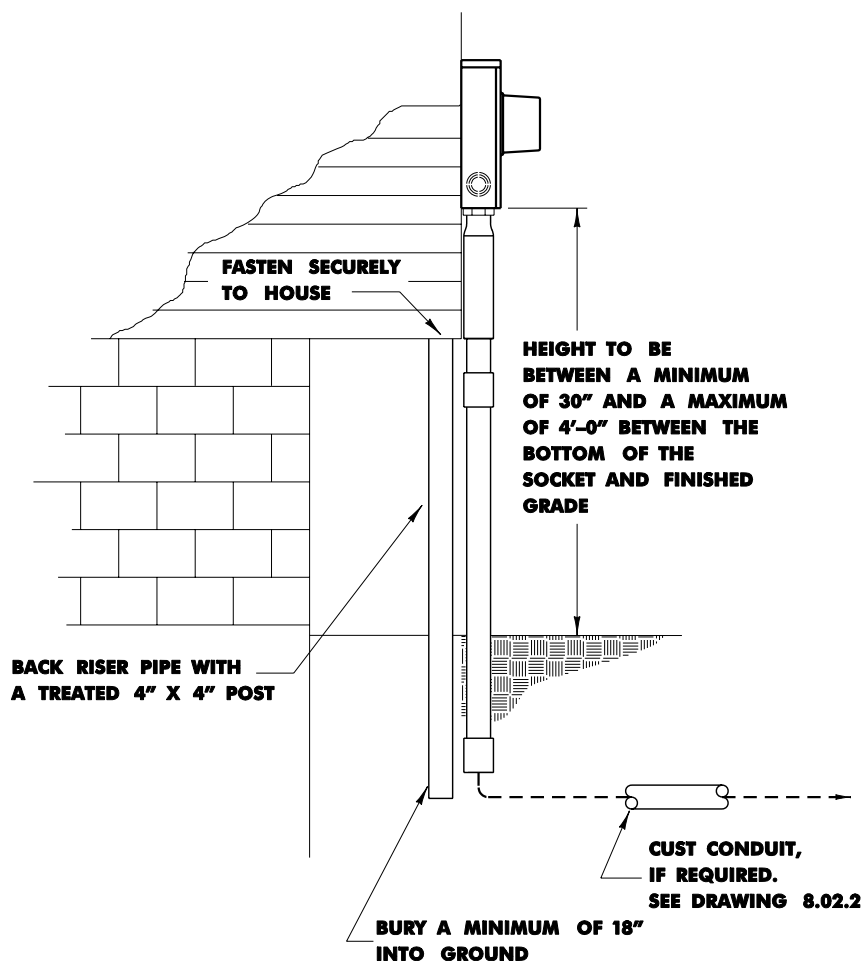


TABLE

SERVICE SIZE	MINIMUM COVER OVER DUCT	MINIMUM RADIUS OF ALL BENDS	MINIMUM DUCT SIZE
200A HOUSE SERVICE	30 INCHES	24 INCHES	2 1/2 INCHES
320A HOUSE SERVICE	30 INCHES	24 INCHES	3 INCHES

UNDERGROUND RESIDENTIAL SOCKET ON A CANTILEVER

7.04.1



NOTES:

TERMINALS FOR MAXIMUM 350 KCMIL
COPPER OR ALUMINUM CONDUCTOR.

METER SOCKET AVAILABLE WITH
FIFTH TERMINAL, FOR THREE WIRE
120/208 SERVICE.

PATH FOR SERVICE CONDUCTORS
MUST BE CLEAR OF OBSTRUCTION
AND AT FINAL GRADE BEFORE
INSTALLATION OF SERVICE.

AFTER ENTRANCE EQUIPMENT
IS INSTALLED CALL ACCOUNT
SERVICES AT 536-4155 OR
OPPD'S AREA OFFICE FOR
CABLE INSTALLATION.

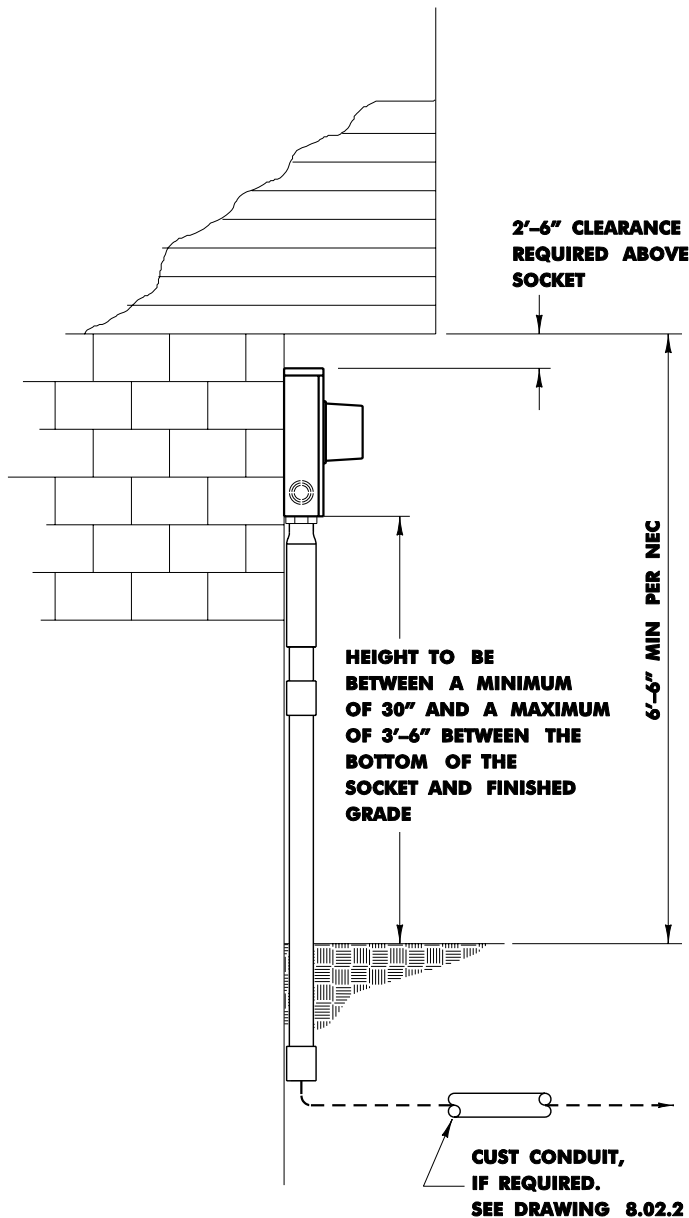
150 FT MAXIMUM RUN.

A GROUND ROD (NEC SUPPLEMENTAL
GROUND) MUST BE INSTALLED
NEAR THE METER SOCKET WITH
AN EQUIPMENT GROUNDING
CONDUCTOR RUNNING FROM THE
GROUND ROD TO THE GROUNDING
LUG PROVIDED IN THE METER SOCKET.

SOURCE AND LOAD CONDUIT CAN BE
INTERCHANGED BY PRIOR APPROVAL
ONLY. DETAILS ON CHANGES TO THIS
DRAWING WILL BE GIVEN WHEN
APPROVAL IS GRANTED.

UNDERGROUND RESIDENTIAL SOCKET UNDER A CANTILEVER

7.04.2



NOTES:

TERMINALS FOR MAXIMUM 350 KCMIL
COPPER OR ALUMINUM CONDUCTOR.

METER SOCKET AVAILABLE WITH
FIFTH TERMINAL, FOR THREE WIRE
120/208 SERVICE.

PATH FOR SERVICE CONDUCTORS
MUST BE CLEAR OF OBSTRUCTION
AND AT FINAL GRADE BEFORE
INSTALLATION OF SERVICE.

AFTER ENTRANCE EQUIPMENT
IS INSTALLED CALL ACCOUNT
SERVICES AT 536-4155 OR
OPPD'S AREA OFFICE FOR
CABLE INSTALLATION.

150 FT MAXIMUM RUN.

A GROUND ROD (NEC SUPPLEMENTAL
GROUND) MUST BE INSTALLED NEAR
THE METER SOCKET WITH AN
EQUIPMENT GROUNDING CONDUCTOR
RUNNING FROM THE GROUND
ROD TO THE GROUNDING LUG
PROVIDED IN THE METER SOCKET.

SOURCE AND LOAD CONDUIT CAN BE
INTERCHANGED BY PRIOR APPROVAL
ONLY. DETAILS ON CHANGES TO THIS
DRAWING WILL BE GIVEN WHEN
APPROVAL IS GRANTED.

SURFACE TYPE METER SOCKET

120/240 VOLT 3 WIRE 200 AMPERE UNDERGROUND SERVICE
"RESIDENTIAL SERVICE ONLY"

7.05.1

M118, M118D
120/208V 1Ø 3W: M218, M218D

NOTES:

TERMINALS FOR MAXIMUM 350 KCMIL
COPPER OR ALUMINUM CONDUCTOR.

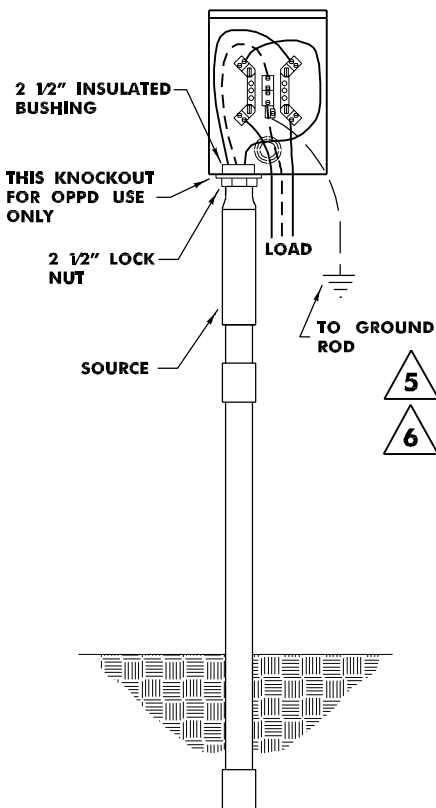
METER SOCKET AVAILABLE WITH
FIFTH TERMINAL, FOR THREE WIRE
120/208 SERVICE AT 9 O'CLOCK
POSITION ONLY.

PATH FOR SERVICE CONDUCTORS
MUST BE CLEAR OF OBSTRUCTION
AND AT FINAL GRADE BEFORE
INSTALLATION OF SERVICE.

AFTER ENTRANCE EQUIPMENT
IS INSTALLED CALL ACCOUNT
SERVICES AT 536-4155 OR
OPPD'S AREA OFFICE FOR
CABLE INSTALLATION.

150 FT MAXIMUM RUN.

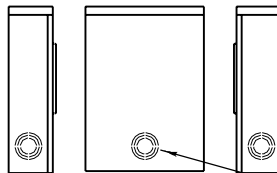
A GROUND ROD (NEC SUPPLEMENTAL
GROUND) MUST BE INSTALLED 6" TO
THE SIDE OF THE METER SOCKET WITH
AN EQUIPMENT GROUNDING CONDUCTOR
RUNNING FROM THE GROUND
ROD TO THE GROUNDING LUG
PROVIDED IN THE METER SOCKET.



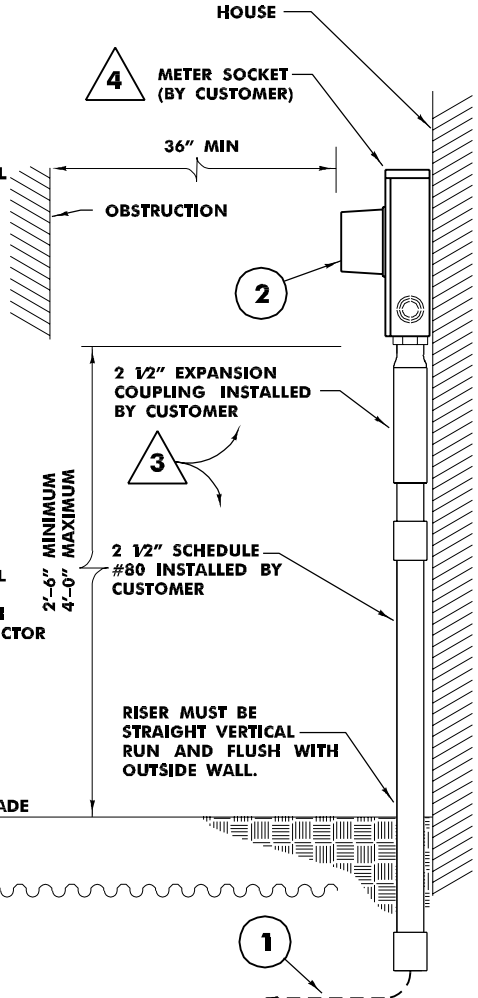
OPPD SOURCE MAY USE RIGHT OR
LEFT KNOCKOUT BASED ON SITE
CONDITIONS.

KNOCKOUT LOCATION

LEFT VIEW FRONT VIEW COVER OFF RIGHT VIEW



2 1/2" MAX KNOCKOUTS FOR
OPPD'S CABLE



CONTRACTOR MUST USE THE KNOCKOUTS
DESCRIBED BELOW FOR THE LINE AND LOAD
CONDUCTORS. DO NOT USE ANY OTHER
KNOCKOUT OR DRILL ANY OTHER HOLES IN
THE METER SOCKET. KNOCKOUT LOCATIONS
ON DRAWING ARE APPROXIMATE AND NOT
DRAWN TO SCALE. MIDDLE BOTTOM KNOCKOUT
NOT TO BE USED FOR RISER FOR OPPD CABLE.

ANY PROPOSED REQUESTS TO USE OTHER
KNOCKOUTS REQUIRES PRIOR APPROVAL
BY OPPD.

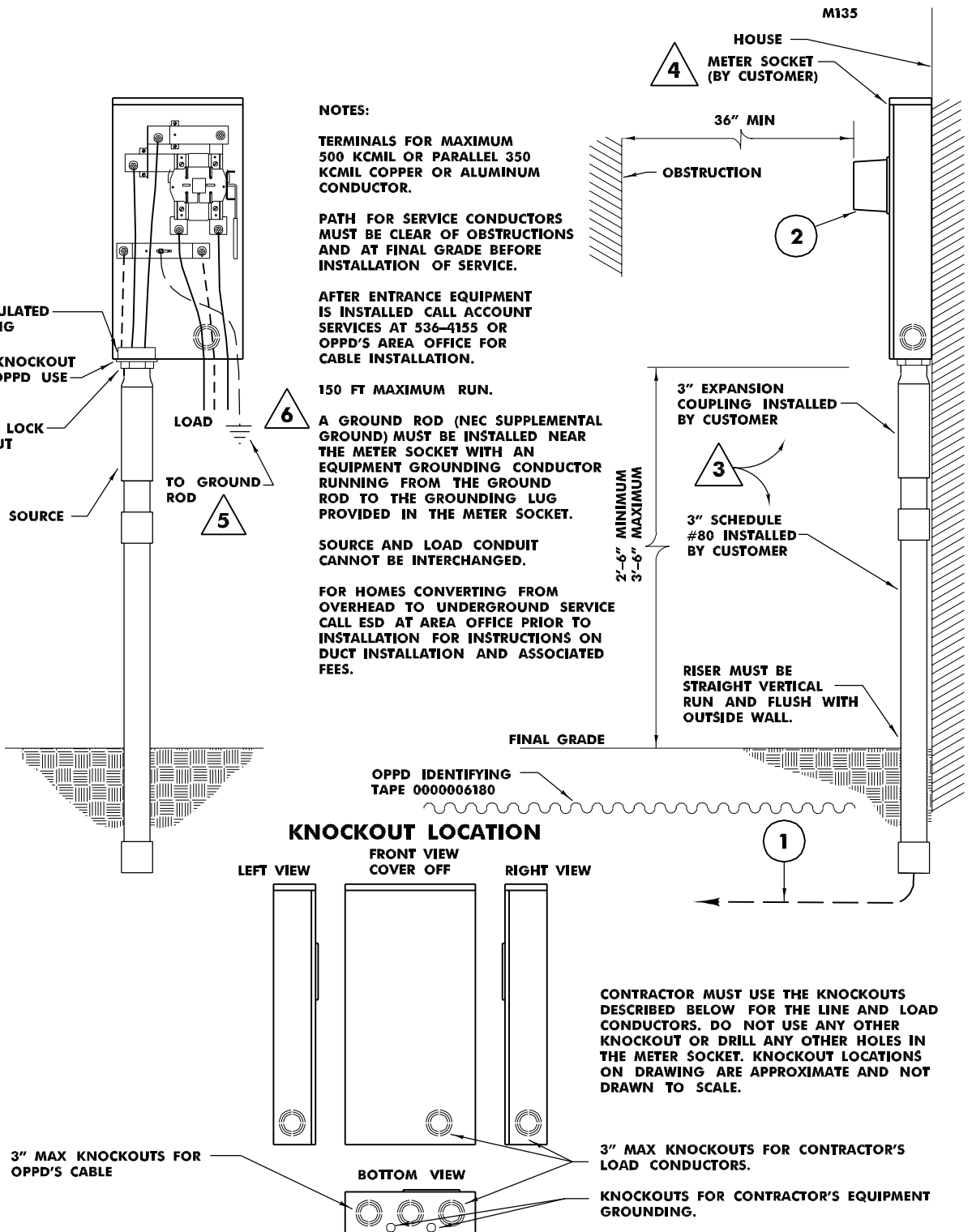
2 1/2" MAX KNOCKOUTS FOR CONTRACTOR'S
LOAD CONDUCTORS.

KNOCKOUTS FOR CONTRACTOR'S EQUIPMENT
GROUNDING. INSTALL GROUND ROD 6" OFF
TO SIDE OF SOCKET.

SURFACE TYPE METER SOCKET

120/240 VOLT 3 WIRE 320 AMPERE UNDERGROUND SERVICE
"RESIDENTIAL SERVICE ONLY"

7.05.2



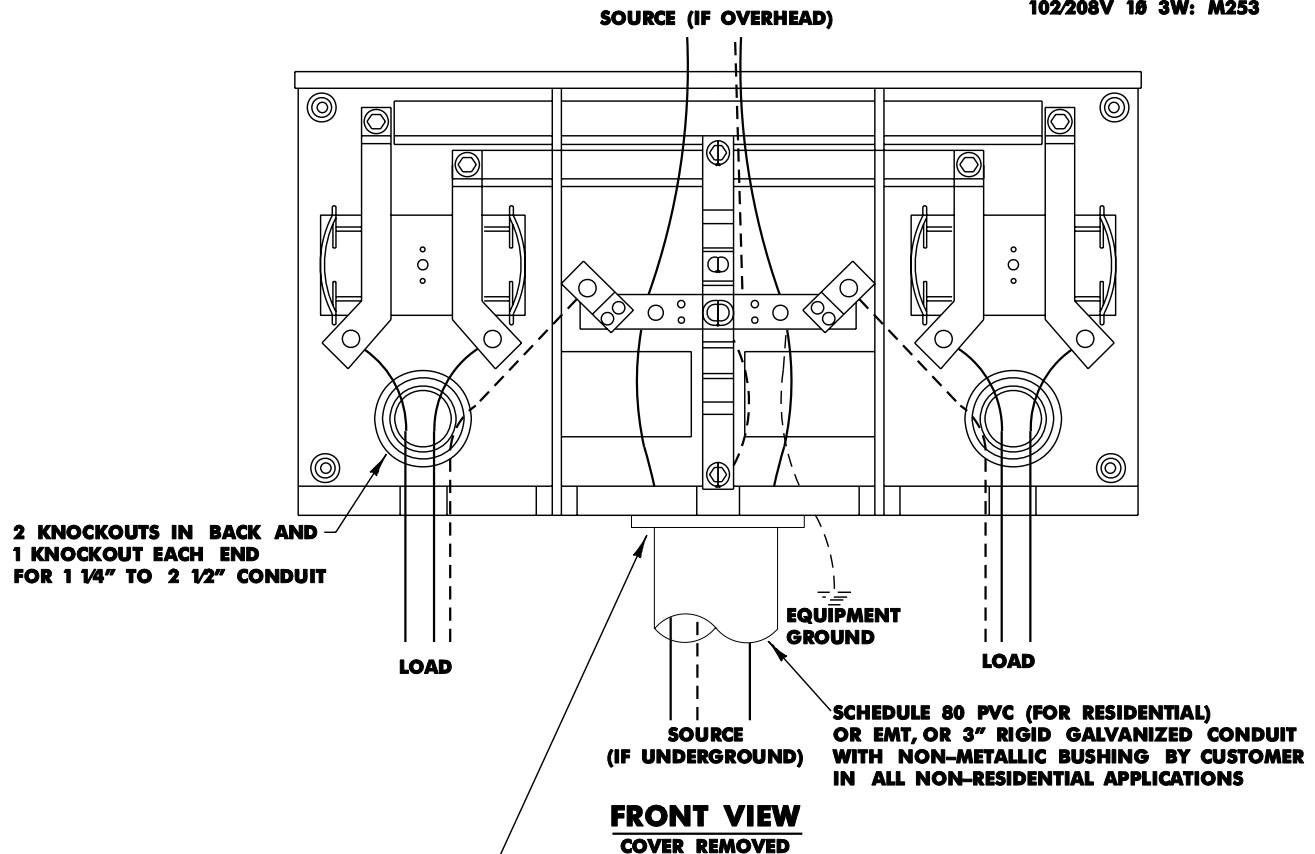
1Ø SURFACE TYPE METER SOCKET

120/240 VOLT 3 WIRE UNDERGROUND /OVERHEAD SERVICE
200 AMPERES PER POSITION

7.05.3

M153

102/208V 1Ø 3W: M253

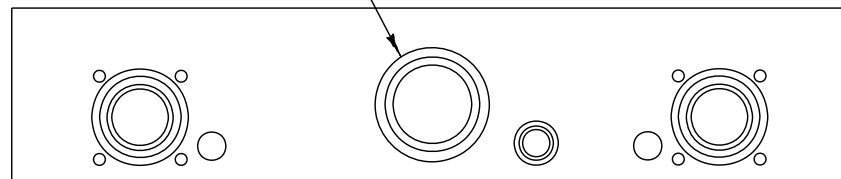


THIS KNOCKOUT FOR OPPD USE ONLY FOR RESIDENTIAL APPLICATIONS

NOTES:

SOURCE TERMINALS FOR MAXIMUM 600 KCMIL CONDUCTORS, LOAD TERMINALS FOR MAXIMUM 350 KCMIL CONDUCTORS.

METER SOCKET AVAILABLE WITH FIFTH TERMINAL, FOR THREE WIRE WYE SERVICE.



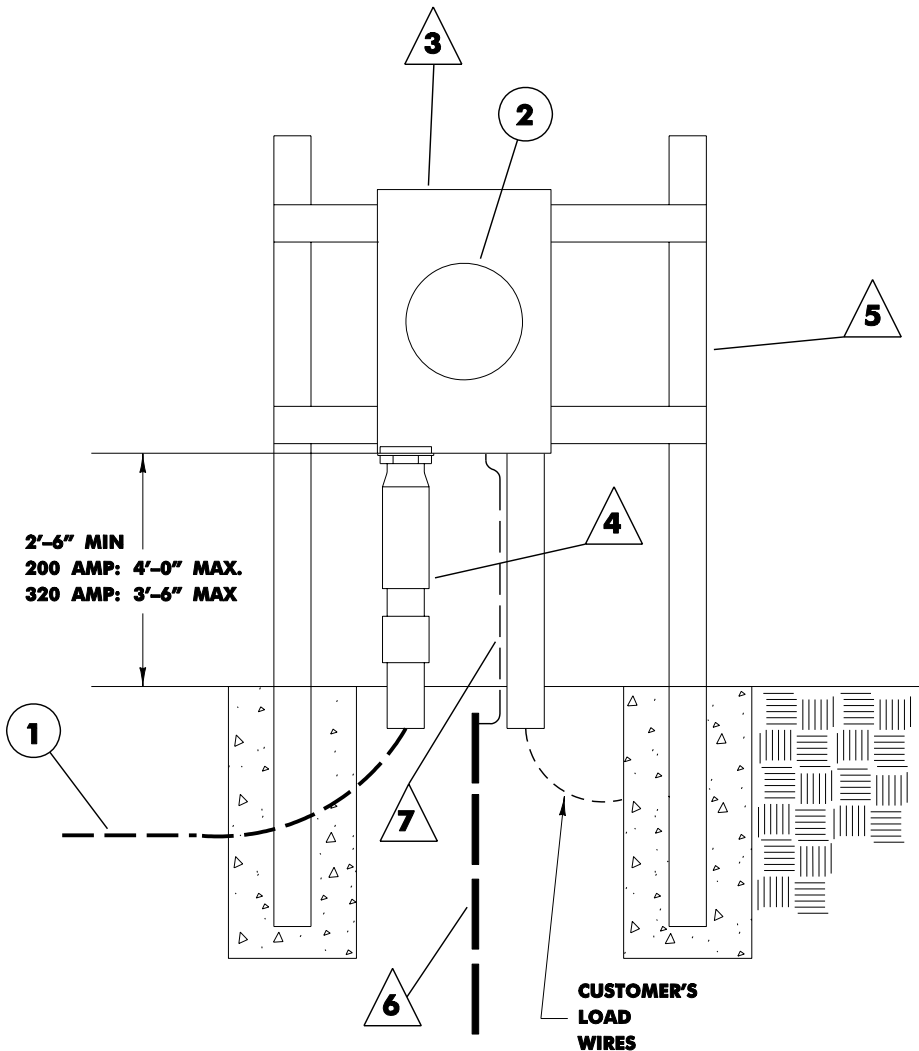
BOTTOM VIEW

- 1 KNOCKOUTS FOR 2" TO 3" CONDUIT
- 2 KNOCKOUTS FOR 1 1/4" TO 2 1/2" CONDUIT
- 1 KNOCKOUTS FOR 1/2" TO 1" CONDUIT
- 2 KNOCKOUTS FOR 1/2" CONDUIT
- 1 KNOCKOUT FOR 1/4" EQUIPMENT GROUND

CUSTOMER'S METER SUPPORT RESIDENTIAL, UNDERGROUND

7.06

M121
M121D
120/208V 1Ø 3W: M221
M221D



NOTES:

TERMINALS FOR MAXIMUM 250 KCMIL
COPPER OR ALUMINUM CONDUCTOR.

METER SOCKET AVAILABLE WITH
FIFTH TERMINAL, FOR THREE WIRE
120/208 SERVICE.

PATH FOR SERVICE CONDUCTORS
MUST BE CLEAR OF OBSTRUCTION
AND AT FINAL GRADE BEFORE
INSTALLATION OF SERVICE.

AFTER ENTRANCE EQUIPMENT
IS INSTALLED CALL ACCOUNT
SERVICES AT 536-4155 OR
OPPD'S AREA OFFICE FOR
CABLE INSTALLATION.

150 FT MAXIMUM RUN.

A GROUND ROD (NEC SUPPLEMENTAL
GROUND) MUST BE INSTALLED
NEAR THE METER SOCKET WITH
AN EQUIPMENT GROUNDING
CONDUCTOR RUNNING FROM THE
GROUND ROD TO THE GROUNDING
LUG PROVIDED IN THE METER SOCKET.

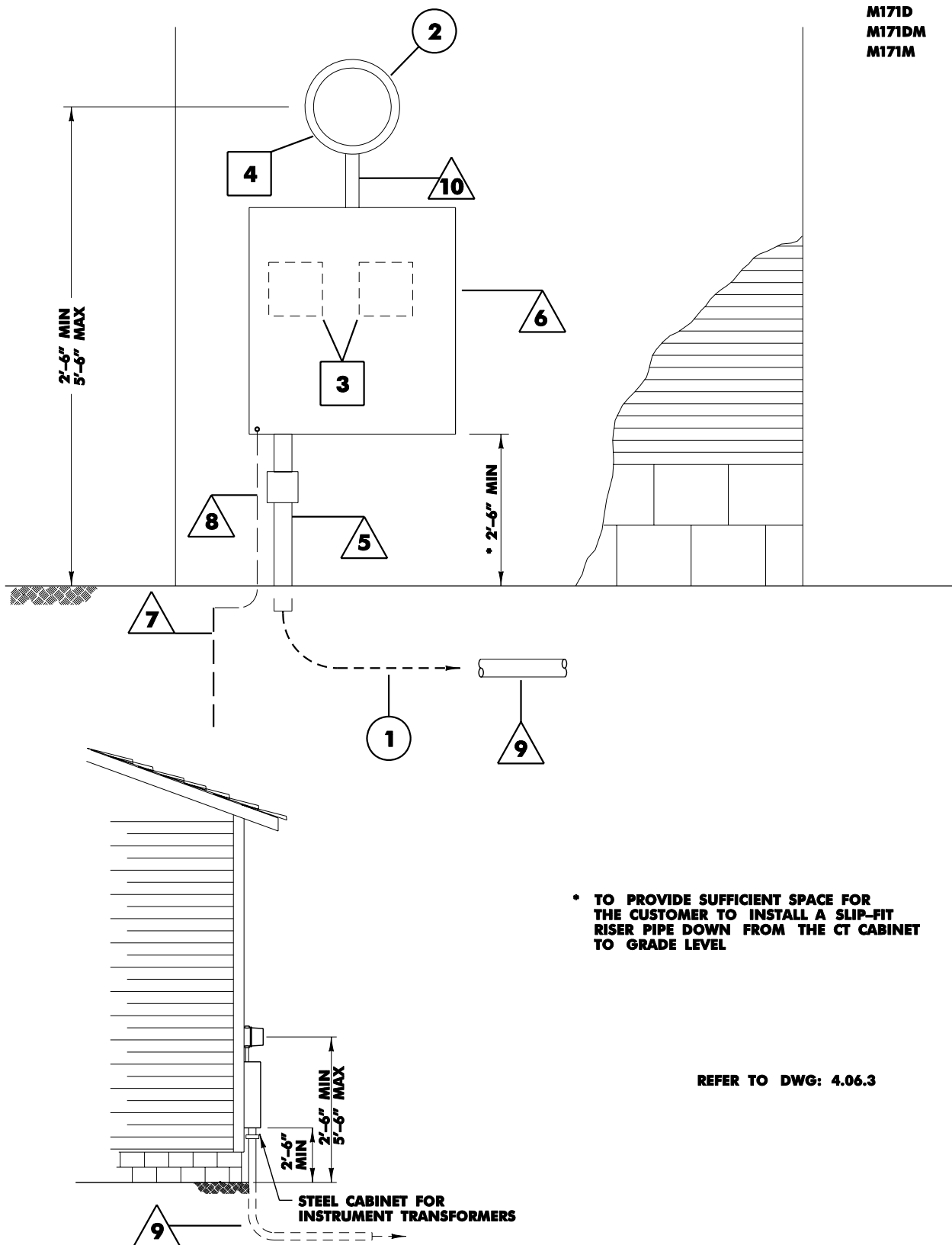
SOURCE AND LOAD CONDUIT CAN BE
INTERCHANGED BY PRIOR APPROVAL
ONLY. DETAILS ON CHANGES TO THIS
DRAWING WILL BE GIVEN WHEN
APPROVAL IS GRANTED.

SEE DWG: 7.05.1 FOR ACCEPTABLE
CONDUIT KNOCKOUT LOCATIONS
IN SOCKET.

INSTRUMENT TRANSFORMER METERING RESIDENTIAL, UNDERGROUND

7.07

M171
M171D
M171DM
M171M

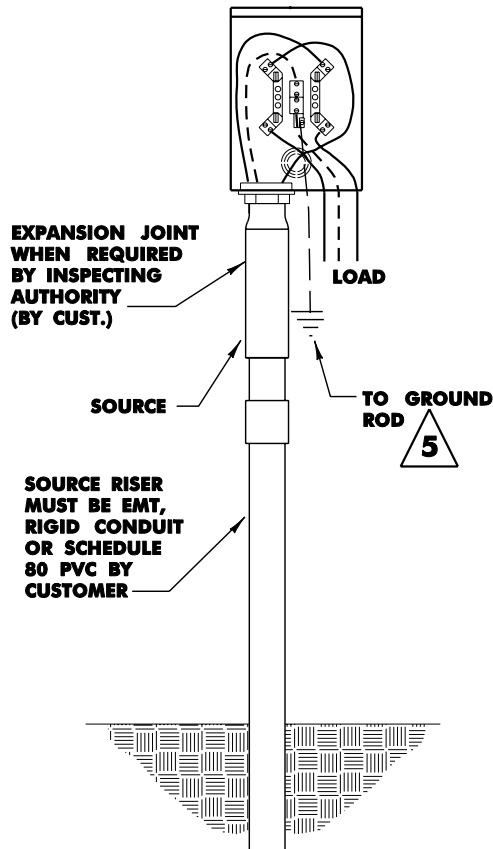


SURFACE TYPE METER SOCKET

120/240 VOLT 3 WIRE 200 AMPERE UNDERGROUND SERVICE
"GENERAL SERVICE ONLY"

8.04.1

M123
M123D
120/208V 1Ø 3W: M223
M223D



NOTES:

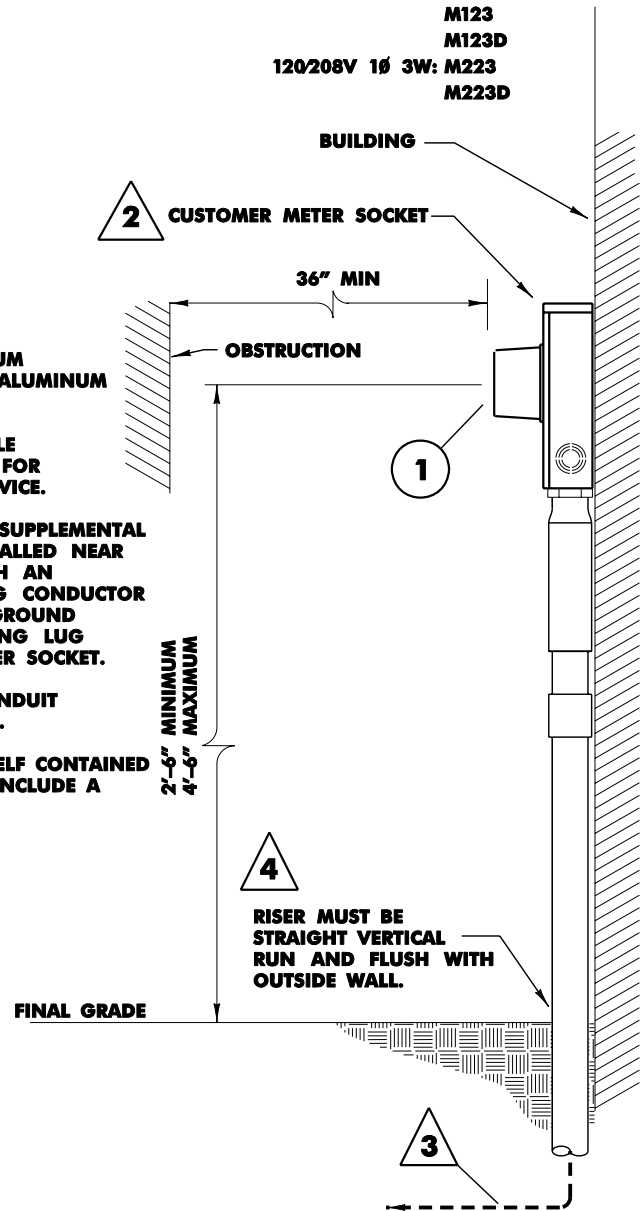
TERMINALS FOR MAXIMUM 350 KCMIL COPPER OR ALUMINUM CONDUCTOR.

METER SOCKET AVAILABLE WITH FIFTH TERMINAL. FOR THREE WIRE 120/208 SERVICE.

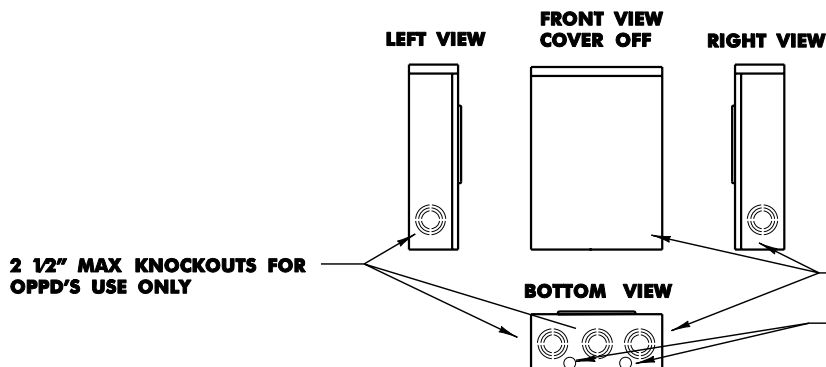
A GROUND ROD (NEC SUPPLEMENTAL GROUND) MUST BE INSTALLED NEAR THE METER SOCKET WITH AN EQUIPMENT GROUNDING CONDUCTOR RUNNING FROM THE GROUND ROD TO THE GROUNDING LUG PROVIDED IN THE METER SOCKET.

SOURCE AND LOAD CONDUIT CAN BE INTERCHANGED.

ALL GENERAL SERVICE SELF CONTAINED METER SOCKETS SHALL INCLUDE A LEVER BY-PASS.



KNOCKOUT LOCATION



CONTRACTOR MUST USE THE KNOCKOUTS DESCRIBED BELOW FOR THE LINE AND LOAD CONDUCTORS. DO NOT DRILL ANY OTHER HOLES IN THE METER SOCKET. KNOCKOUT LOCATIONS ON DRAWING ARE APPROXIMATE AND NOT DRAWN TO SCALE.

REFER TO DWG: 4.02.4

1Ø SURFACE TYPE METER SOCKET

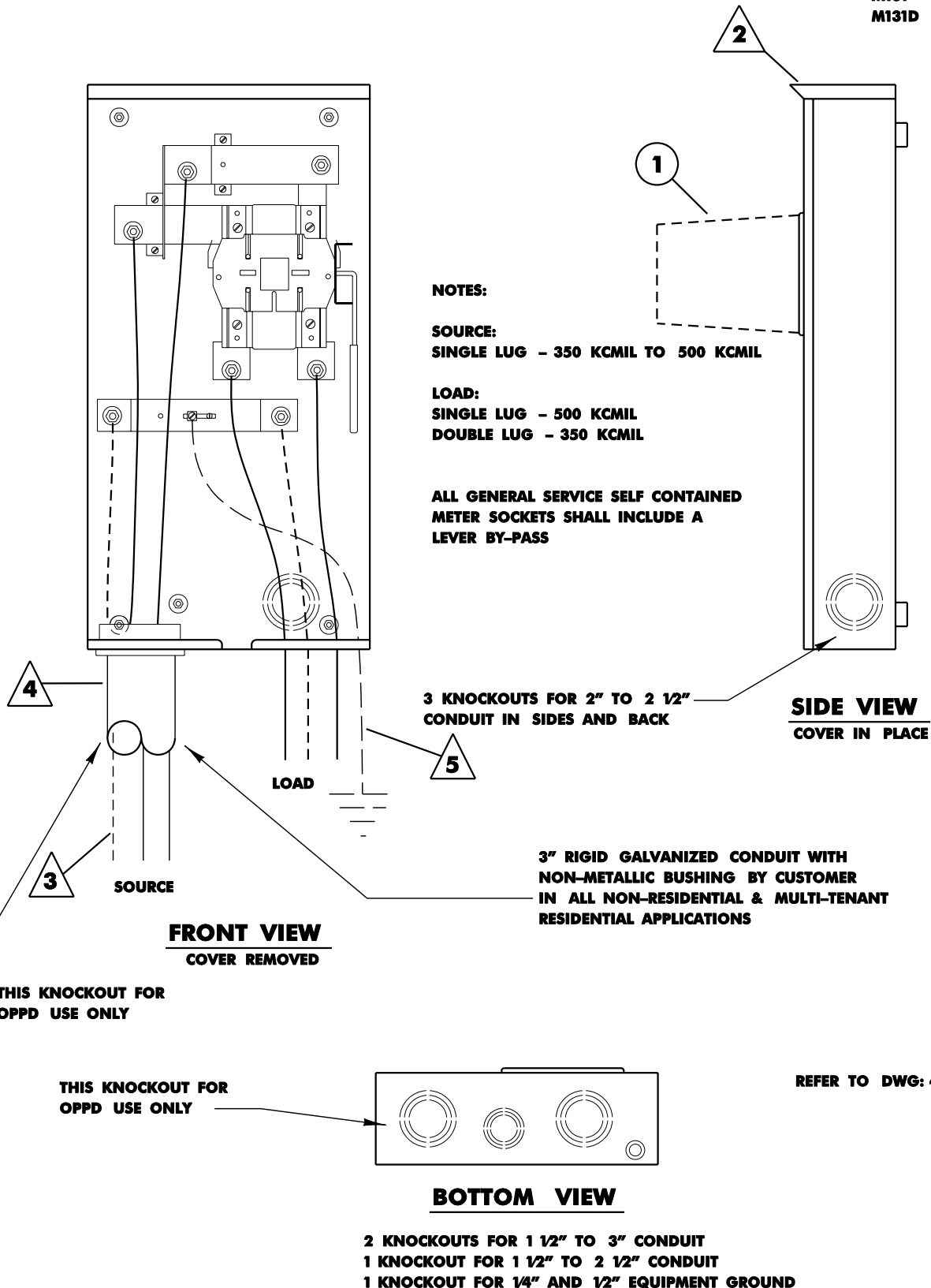
120/240 VOLT 3 WIRE 320 AMPERES

UNDERGROUND SERVICE

GENERAL SERVICE ONLY

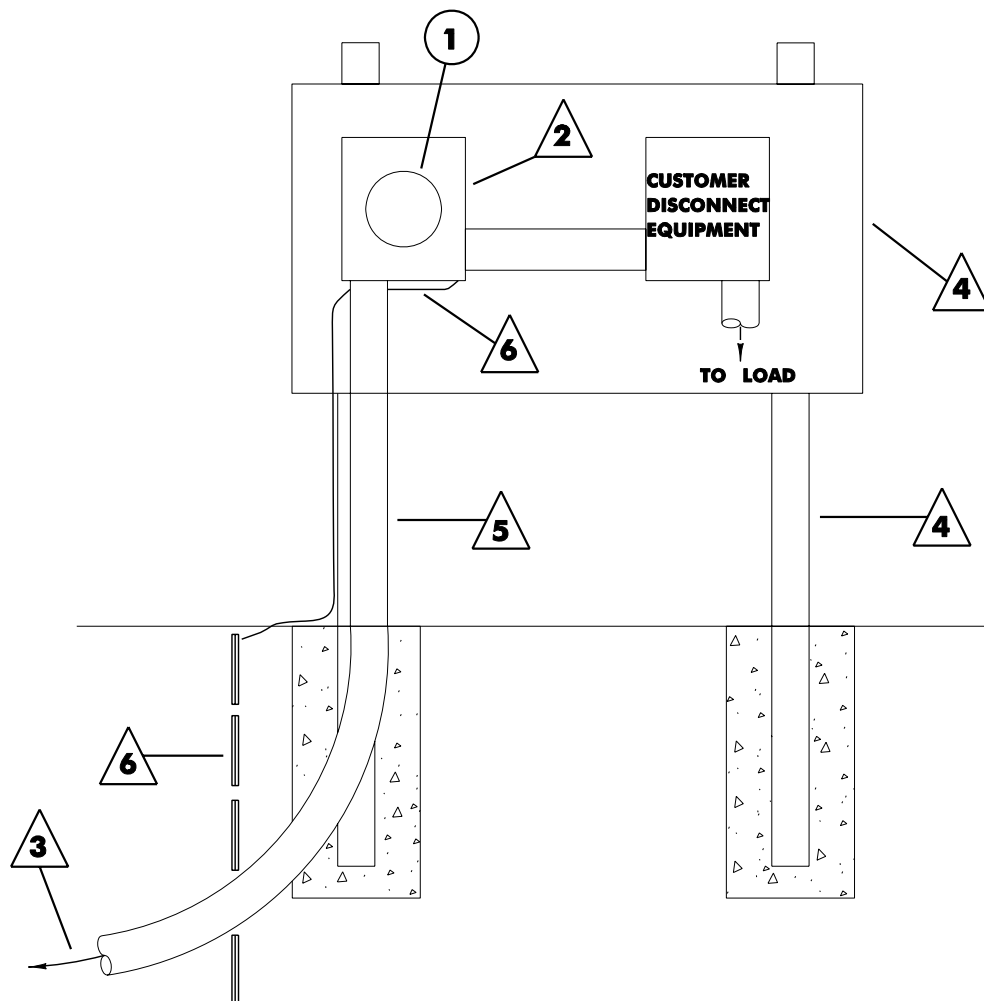
8.04.2

M131
M131D



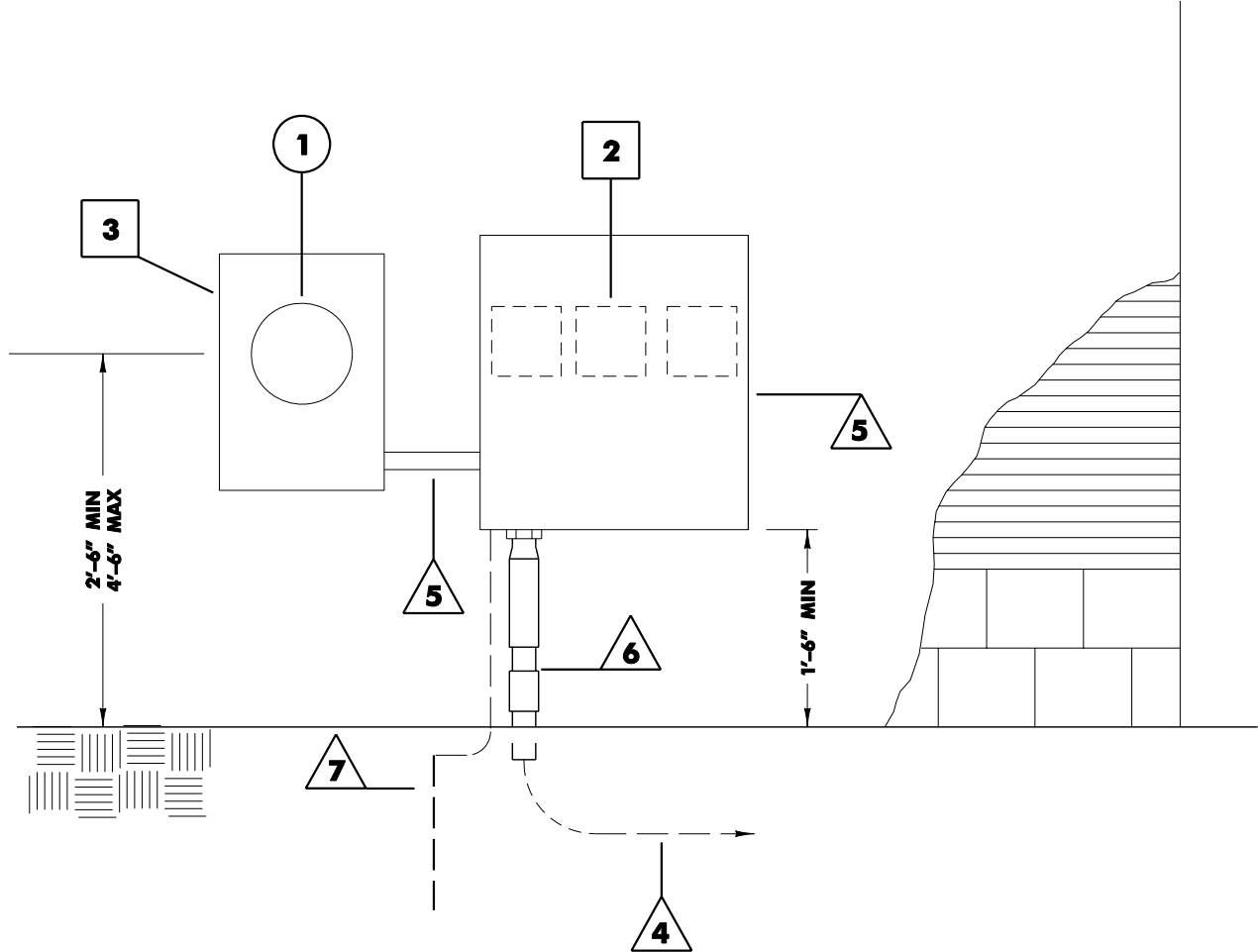
CUSTOMER'S METER SUPPORT GENERAL SERVICE, UNDERGROUND

8.05



INSTRUMENT TRANSFORMER METERING GENERAL SERVICE, UNDERGROUND

8.06

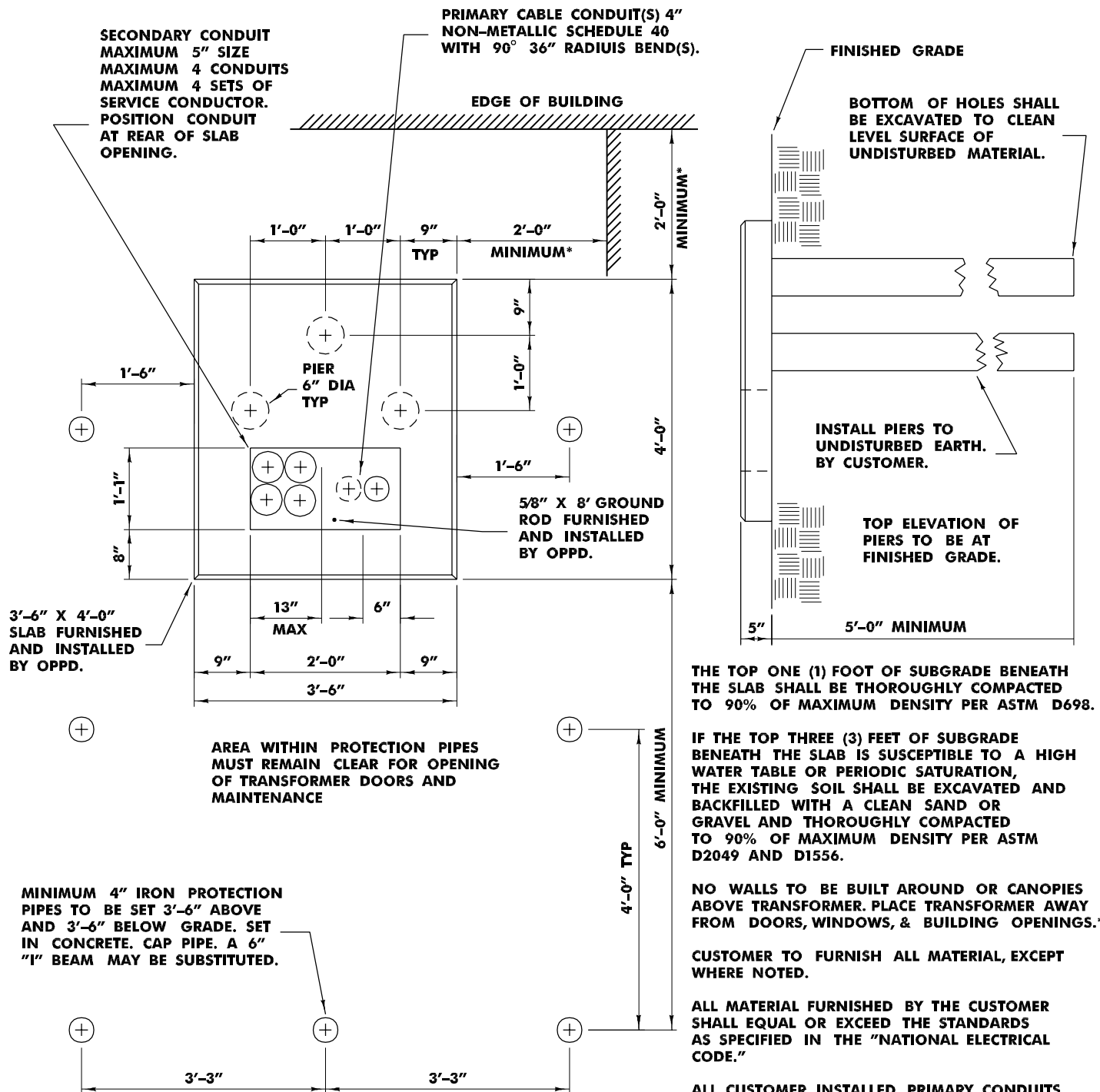


REFER TO DWG:
120/240V 10 3W: 4.06.3
277/480V 30 4W & 120/208V 30 4W: 4.06.15
4.06.17
480V 30 3W: 4.06.9
4.06.11

10 PADMOUNT TRANSFORMER SLAB DETAIL

LOW PROFILE-TYPE, 25KVA TO 167KVA

8.08.1



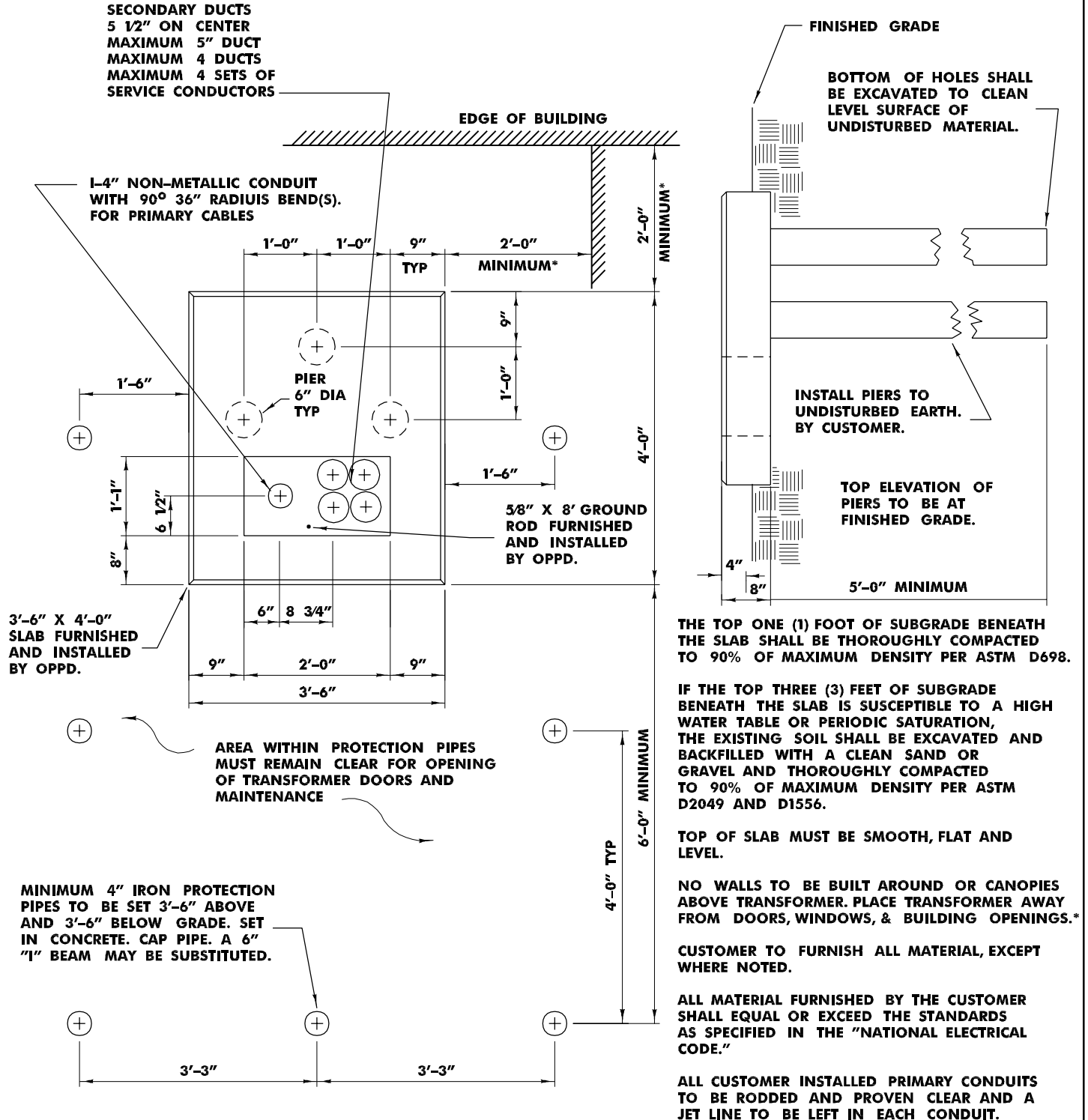
* THIS DRAWING SHOWS THE MINIMUM CLEARANCE NEEDED FOR PHYSICAL REASONS; FACTORY MUTUAL INSURANCE COMPANY RECOMMENDS THE FOLLOWING SEPARATION DISTANCES BETWEEN THE SPECIFIED TYPE OF BUILDING AND TRANSFORMER FOR MINERAL-OIL FILLED TRANSFORMERS WITH UNDER 500 GALLONS OF OIL. BUILDING OWNERS AND THEIR CONTRACTORS ARE RESPONSIBLE FOR LOCATING THE SLAB PER OPPD MINIMUM CLEARANCE GUIDELINES AND THEIR INSURANCE COMPANY RECOMMENDATIONS.

TWO HOURS FIRE RESISTANT CONSTRUCTION	NON-COMBUSTIBLE CONSTRUCTION	COMBUSTIBLE CONSTRUCTION
5'	15'	25'

10 PADMOUNT TRANSFORMER SLAB DETAIL

CONVENTIONAL, 25KVA TO 167KVA

8.08.2



* THIS DRAWING SHOWS THE MINIMUM CLEARANCE NEEDED FOR PHYSICAL REASONS; FACTORY MUTUAL INSURANCE COMPANY RECOMMENDS THE FOLLOWING SEPARATION DISTANCES BETWEEN THE SPECIFIED TYPE OF BUILDING AND TRANSFORMER FOR MINERAL-OIL FILLED TRANSFORMERS WITH UNDER 500 GALLONS OF OIL. BUILDING OWNERS AND THEIR CONTRACTORS ARE RESPONSIBLE FOR LOCATING THE SLAB PER OPPD MINIMUM CLEARANCE GUIDELINES AND THEIR INSURANCE COMPANY RECOMMENDATIONS.

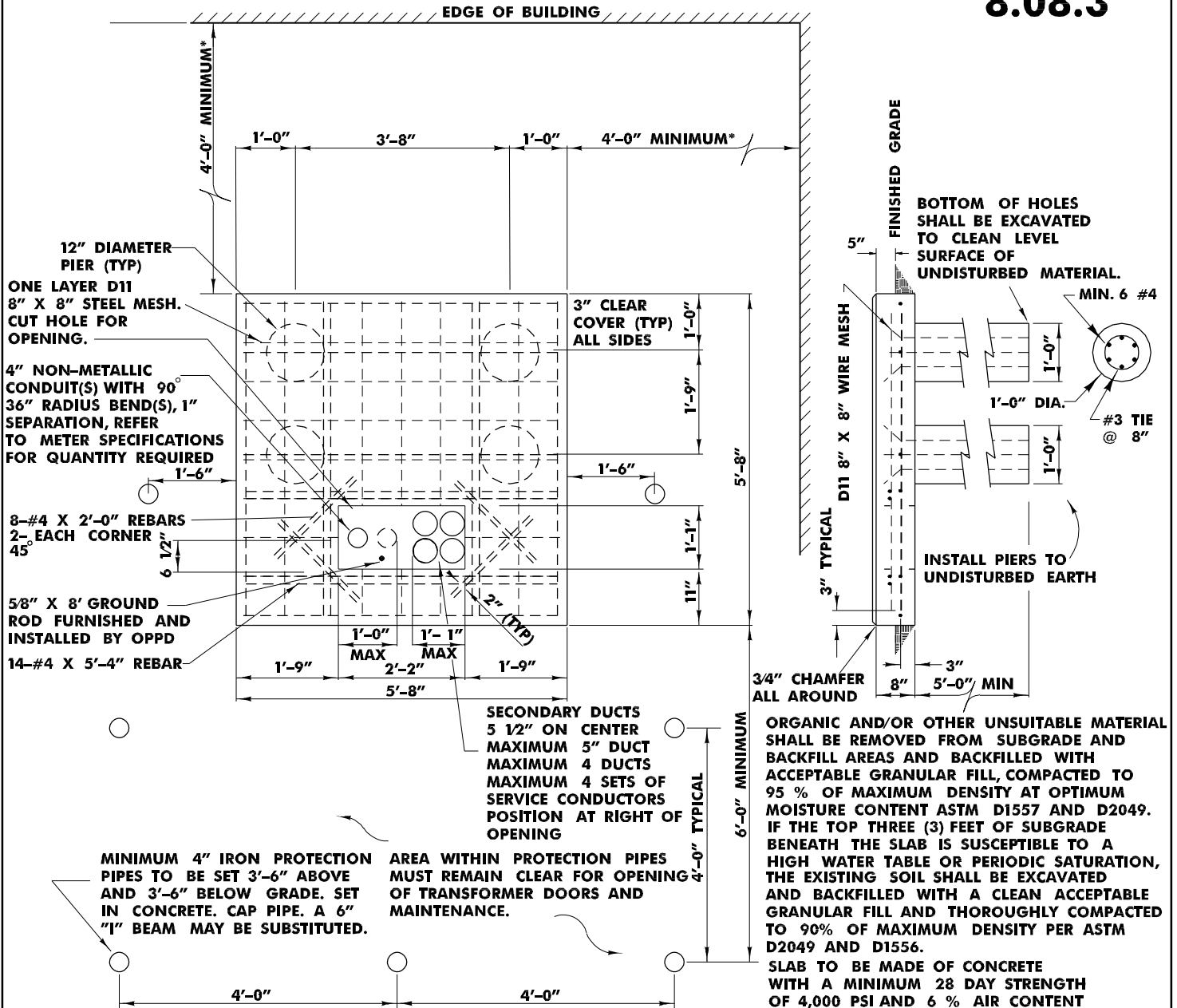
TWO HOURS FIRE RESISTANT CONSTRUCTION	NON-COMBUSTIBLE CONSTRUCTION	COMBUSTIBLE CONSTRUCTION
5'	15'	25'

COORDINATE WITH OPPD TO INSPECT SITE PRIOR TO POURING CONCRETE. INSPECTION WILL INCLUDE LOCATION AND DEPTH OF HOLES FOR SUPPORT PIER (IF REQUIRED), AND CONDUIT PLACEMENT. OPPD INSPECTION DOES NOT INCLUDE INSPECTING FOR INSURANCE RECOMMENDED BUILDING CLEARANCES.

1Ø PADMOUNT TRANSFORMER SLAB DETAIL

CONVENTIONAL, 250KVA AND 333KVA
MAX. WEIGHT 3000 POUNDS

8.08.3



COORDINATE WITH OPPD TO INSPECT SITE PRIOR TO POURING CONCRETE. INSPECTION WILL INCLUDE LOCATION AND DEPTH OF HOLES FOR SUPPORT PIERS, AND CONDUIT PLACEMENT. OPPD INSPECTION DOES NOT INCLUDE INSPECTING FOR INSURANCE RECOMMENDED BUILDING CLEARANCES.

* THIS DRAWING SHOWS THE MINIMUM CLEARANCE NEEDED FOR PHYSICAL REASONS; FACTORY MUTUAL INSURANCE COMPANY RECOMMENDS THE FOLLOWING SEPARATION DISTANCES BETWEEN THE SPECIFIED TYPE OF BUILDING AND TRANSFORMER FOR MINERAL-OIL FILLED TRANSFORMERS WITH UNDER 500 GALLONS OF OIL. BUILDING OWNERS AND THEIR CONTRACTORS ARE RESPONSIBLE FOR LOCATING THE SLAB PER OPPD MINIMUM CLEARANCE GUIDELINES AND THEIR INSURANCE COMPANY RECOMMENDATIONS.

TWO HOURS FIRE RESISTANT CONSTRUCTION	NON-COMBUSTIBLE CONSTRUCTION	COMBUSTIBLE CONSTRUCTION
5'	15'	25'

TOP OF SLAB MUST BE SMOOTH, FLAT AND LEVEL.

NO WALLS TO BE BUILT AROUND OR CANOPIES ABOVE TRANSFORMER. PLACE TRANSFORMER AWAY FROM DOORS, WINDOWS, & BUILDING OPENINGS.*

CUSTOMER TO FURNISH ALL MATERIAL, EXCEPT WHERE NOTED

ALL MATERIAL FURNISHED BY THE CUSTOMER SHALL EQUAL OR EXCEED THE STANDARDS AS SPECIFIED IN THE "NATIONAL ELECTRICAL CODE"

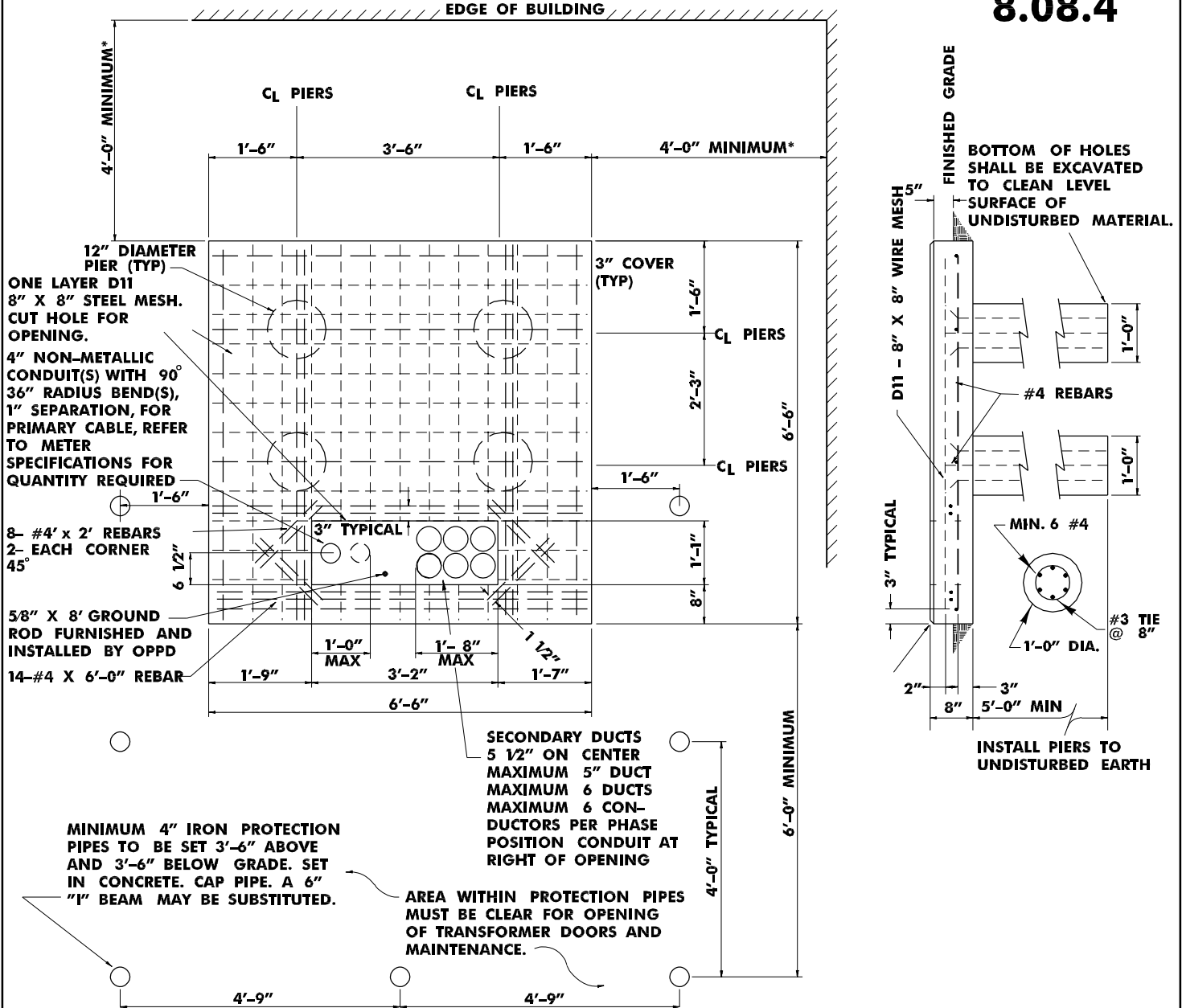
ALL CUSTOMER INSTALLED PRIMARY CONDUITS TO BE RODDED AND PROVEN CLEAR, AND A JET LINE TO BE LEFT IN EACH CONDUIT

ALL CONDUITS ENTERING SLAB TO BE VERTICAL AND AT A 90° ANGLE WITH TOP OF SLAB

3Ø PADMOUNT TRANSFORMER SLAB DETAIL

75 KVA TO 500 KVA
7000 POUNDS

8.08.4



ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH ACCEPTABLE GRANULAR FILL, COMPACTED TO 95 % OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT ASTM D1557 AND D2049. IF THE TOP THREE (3) FEET OF SUBGRADE BENEATH THE SLAB IS SUSCEPTIBLE TO A HIGH WATER TABLE OR PERIODIC SATURATION, THE EXISTING SOIL SHALL BE EXCAVATED AND BACKFILLED WITH A CLEAN ACCEPTABLE GRANULAR FILL AND THOROUGHLY COMPACTED TO 90% OF MAXIMUM DENSITY PER ASTM D2049 AND D1556.

* THIS DRAWING SHOWS THE MINIMUM CLEARANCE NEEDED FOR PHYSICAL REASONS; FACTORY MUTUAL INSURANCE COMPANY RECOMMENDS THE FOLLOWING SEPARATION DISTANCES BETWEEN THE SPECIFIED TYPE OF BUILDING AND TRANSFORMER FOR MINERAL-OIL FILLED TRANSFORMERS WITH UNDER 500 GALLONS OF OIL. BUILDING OWNERS AND THEIR CONTRACTORS ARE RESPONSIBLE FOR LOCATING THE SLAB PER OPPD MINIMUM CLEARANCE GUIDELINES AND THEIR INSURANCE COMPANY RECOMMENDATIONS.

SLAB TO BE MADE OF CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 4,000 PSI AND 6 % AIR CONTENT

TOP OF SLAB MUST BE SMOOTH, FLAT AND LEVEL. NO WALLS TO BE BUILT AROUND OR CANOPIES ABOVE TRANSFORMER. PLACE TRANSFORMER AWAY FROM DOORS, WINDOWS, & BUILDING OPENINGS.*

CUSTOMER TO FURNISH ALL MATERIAL, EXCEPT WHERE NOTED

ALL MATERIAL FURNISHED BY THE CUSTOMER SHALL EQUAL OR EXCEED THE STANDARDS AS SPECIFIED IN THE "NATIONAL ELECTRICAL CODE"

ALL CUSTOMER INSTALLED PRIMARY CONDUITS TO BE RODDED AND PROVEN CLEAR, AND A JET LINE TO BE LEFT IN EACH CONDUIT

ALL CONDUITS ENTERING SLAB TO BE VERTICAL AND AT A 90° ANGLE WITH TOP OF SLAB

COORDINATE WITH OPPD TO INSPECT SITE PRIOR TO POURING CONCRETE. INSPECTION WILL INCLUDE LOCATION AND DEPTH OF HOLES FOR SUPPORT PIERS (IF REQUIRED), AND CONDUIT PLACEMENT. OPPD INSPECTION DOES NOT INCLUDE INSPECTING FOR INSURANCE RECOMMENDED BUILDING CLEARANCES.

TWO HOURS FIRE RESISTANT CONSTRUCTION	NON-COMBUSTIBLE CONSTRUCTION	COMBUSTIBLE CONSTRUCTION
5'	15'	25'

Revised 06-02-17 By AMJ

DESIGN ENTRY BY: ROBERT B ADAMS

ISSUED DATE _____

8.08.5

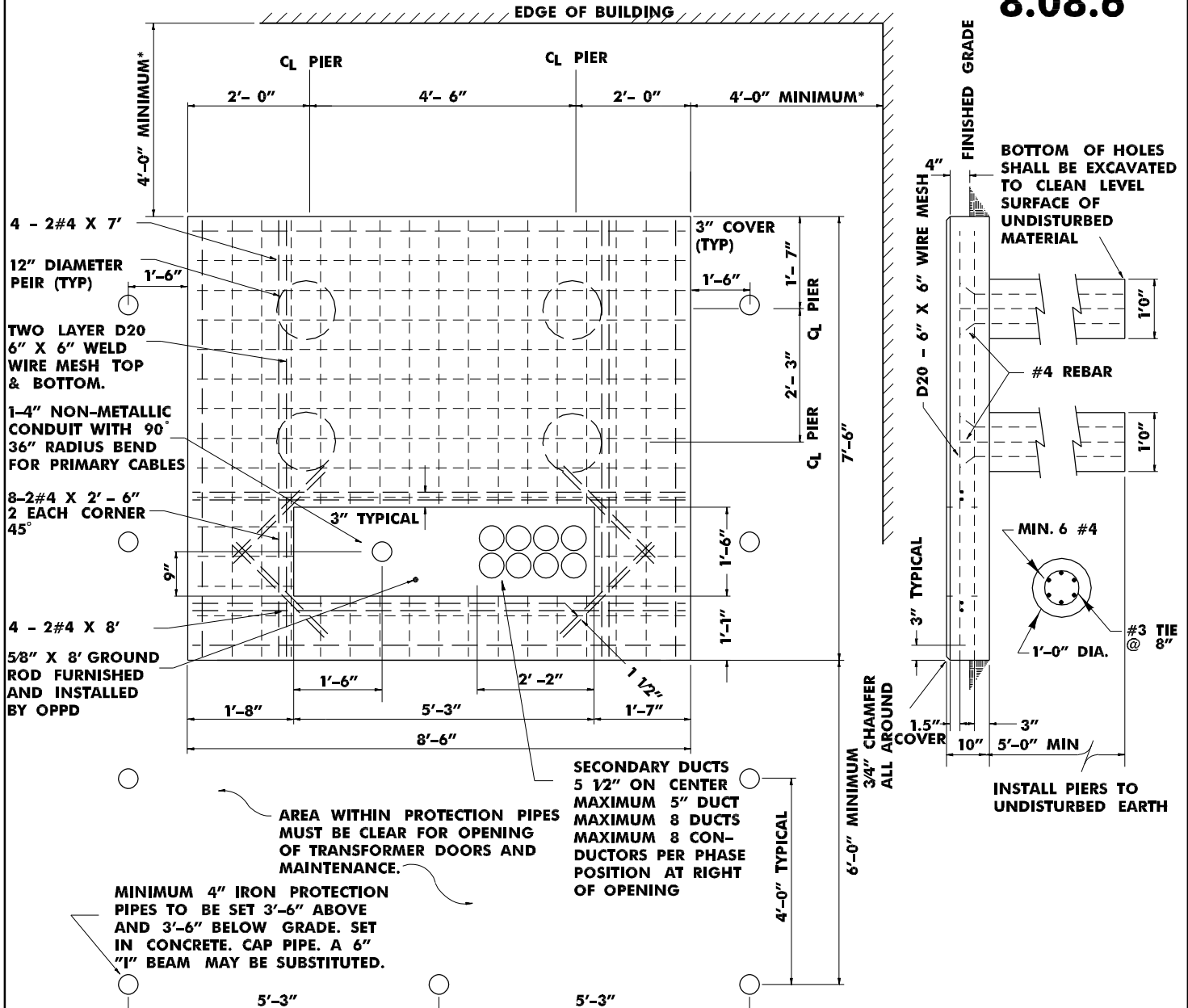


ISSUED DATE

3Ø PADMOUNT TRANSFORMER SLAB DETAIL

1500, 2000 & 2500 KVA
20000 POUNDS

8.08.6



ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH ACCEPTABLE GRANULAR FILL, COMPACTED TO 95 % OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT ASTM D1557 AND D2049. IF THE TOP THREE (3) FEET OF SUBGRADE BENEATH THE SLAB IS SUSCEPTIBLE TO A HIGH WATER TABLE OR PERIODIC SATURATION,

THE EXISTING SOIL SHALL BE EXCAVATED AND BACKFILLED WITH A CLEAN ACCEPTABLE GRANULAR FILL AND THOROUGHLY COMPACTED TO 90% OF MAXIMUM DENSITY PER ASTM D2049 AND D1556.

SLAB TO BE MADE OF CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 4,000 PSI AND 6 % AIR CONTENT

* THIS DRAWING SHOWS THE MINIMUM CLEARANCE NEEDED FOR PHYSICAL REASONS; FACTORY MUTUAL INSURANCE COMPANY RECOMMENDS THE FOLLOWING SEPARATION DISTANCES BETWEEN THE SPECIFIED TYPE OF BUILDING AND TRANSFORMER FOR MINERAL-OIL FILLED TRANSFORMERS WITH UNDER 500 GALLONS OF OIL. BUILDING OWNERS AND THEIR CONTRACTORS ARE RESPONSIBLE FOR LOCATING THE SLAB PER OPPD MINIMUM CLEARANCE GUIDELINES AND THEIR INSURANCE COMPANY RECOMMENDATIONS.

TWO HOURS FIRE RESISTANT CONSTRUCTION	NON-COMBUSTIBLE CONSTRUCTION	COMBUSTIBLE CONSTRUCTION
5'	15'	25'

ALL MATERIAL FURNISHED BY THE CUSTOMER SHALL EQUAL OR EXCEED THE STANDARDS AS SPECIFIED IN THE "NATIONAL ELECTRICAL CODE"

ALL CUSTOMER INSTALLED PRIMARY CONDUITS TO BE RODDED IN PROVEN CLEAR, AND A JET LINE TO BE LEFT IN EACH CONDUIT ALL CONDUITS ENTERING SLAB TO BE VERTICAL AND 90° ANGLE WITH TOP OF SLAB

TOP OF SLAB MUST BE SMOOTH, FLAT AND LEVEL.

NO WALLS TO BE BUILT AROUND OR CANOPIES ABOVE TRANSFORMER. PLACE TRANSFORMER AWAY FROM DOORS, WINDOWS, & BUILDING OPENINGS.* CUSTOMER TO FURNISH ALL MATERIAL, EXCEPT WHERE NOTED

Revised 07-11-17 By AMJ

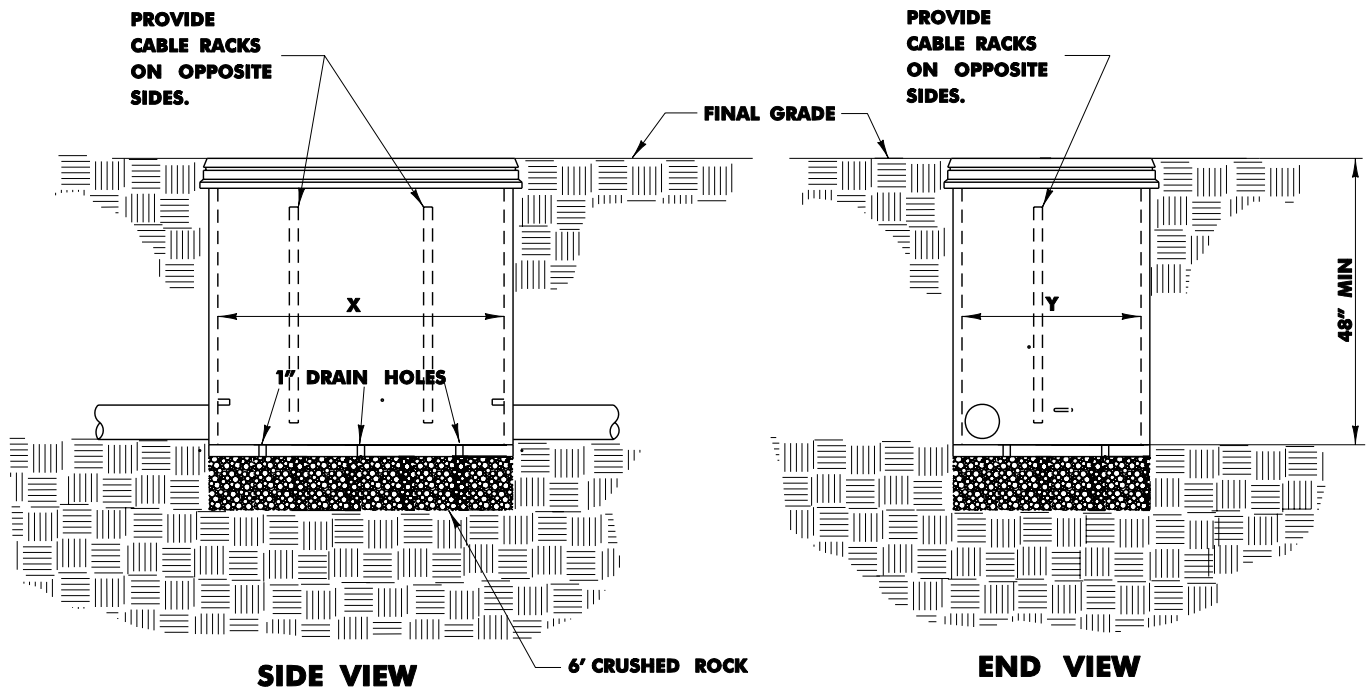
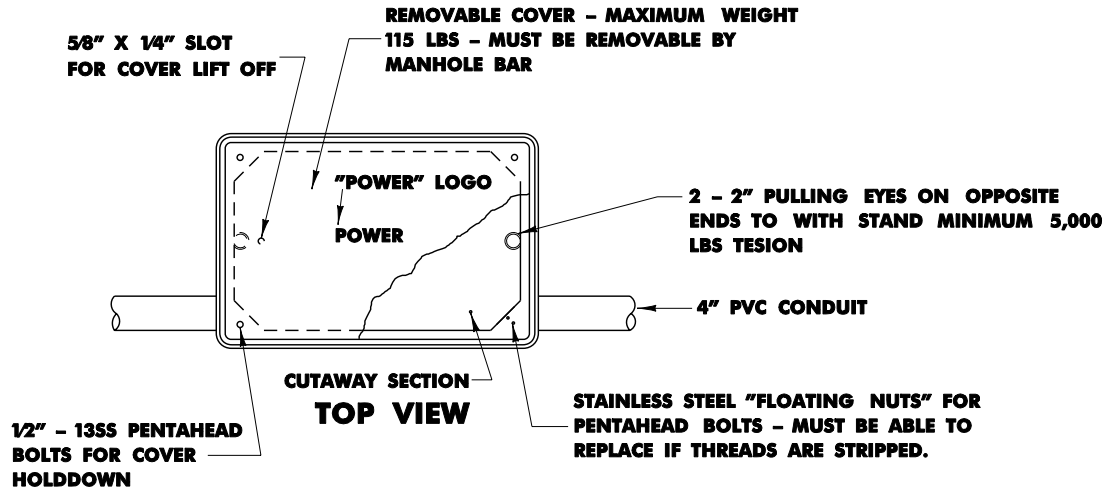
DESIGN ENTRY BY: ROBERT B ADAMS

ISSUED DATE _____

CUSTOMER INSTALLED PULLBOX

MAXIMUM 10 CABLE
DO NOT INSTALL IN DRIVING SURFACE

SINGLE PHASE: 8.08.7A
THREE PHASE: 8.08.7B



DIMENSIONS			CONDUIT KNOCKOUTS	EXCAVATION REQ'D (LABOR)	MAX CABLE SIZE	MAX NO OF SPICES
STD		Y				
8.08.7A	60"	36"	4 3/4"	7 CU YDS	10	2
8.08.7B	78"	48"	4 3/4"	9.8 CU YDS	10	6

NOTE:

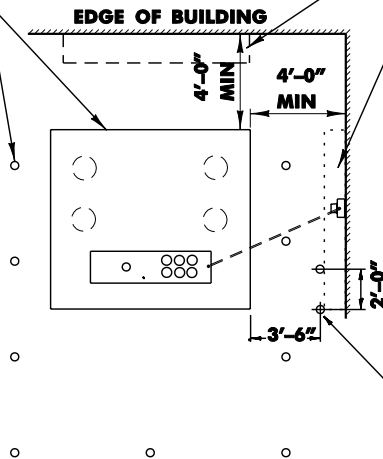
- 1 DESIGN LOAD - HS-20-44 (FULL TRAFFIC LOADING).
- 2 CDR (DIVISION OF HOMAC MFG CO).
- 3 PLACEMENT PER MANUFACTURER'S RECOMMENDATION.
- 4 PULLBOX IS FOR OPPD'S EXCLUSIVE USE. JOINT USE WITH CUSTOMER EQUIPMENT OF ANY NATURE SHALL NOT BE ALLOWED.

3Ø PADMOUNT TRANSFORMER

METERING EQUIPMENT ON TRANSFORMER

STD 8.08.8

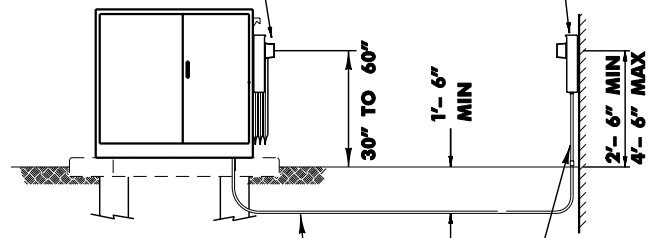
TRANSFORMER SLAB AND PROTECTION PIPES BY CUSTOMER PER METER SPEC MANUAL PAGE 9.08.4, 9.08.5 OR 9.08.6 AS SPECIFIED BY OPPD.



AREA WITHIN PROTECTION PIPES MUST BE CLEAR FOR OPENING OF TRANSFORMER DOORS AND MAINTENANCE.

IF CUSTOMER BUILDING IS WITHIN 10' OF TRANSFORMER SLAB, METER SOCKETS MAY BE INSTALLED ON BUILDING ANYWHERE WITHIN DOTTED AREAS SHOWN AS SPECIFIED BY OPPD.

• METER SOCKETS PROVIDED AND INSTALLED BY OPPD



ADDITIONAL PROTECTION PIPES REQUIRED FOR SUSCEPTIBLE LOCATIONS.

• METER SOCKETS PROVIDED BY OPPD AND INSTALLED BY CUSTOMER

1" PVC SCHED 40 CONDUIT TO TRANSFORMER (BY CUSTOMER)

1" GALVANIZED RIGID CONDUIT BY CUSTOMER

NOTES:

- A MINIMUM CLEAR WORKING SPACE OF 2.5 FT ABOVE, BELOW, AND NECESSARY SIDE WORKING CLEARANCE, AS WELL AS 36" HORIZONTALLY IN FRONT OF THE METERING, SHALL BE PROVIDED AND MAINTAINED.

METERING ON TRANSFORMER IS FOR ONLY WITH INSTRUMENT TRANSFORMERS MOUNTED INSIDE PADMOUNTED TRANSFORMER AND METER MOUNTED ON PADMOUNT TRANSFORMER OR ON BUILDING WALL. AEOT IS FOR NEW CONSTRUCTION ONLY, UNLESS EXISTING SERVICE ENTRANCE CABLES ARE REPLACED.

REFER TO DWGS:

120/208V 3Ø 4W OR 277/480V 3Ø 4W: 4.06.15
4.06.17
480V 3Ø 4W: 4.06.9
4.06.11

REFER TO DWGS: 8.08.1
THROUGH 8.08.6 FOR SLAB DETAILS

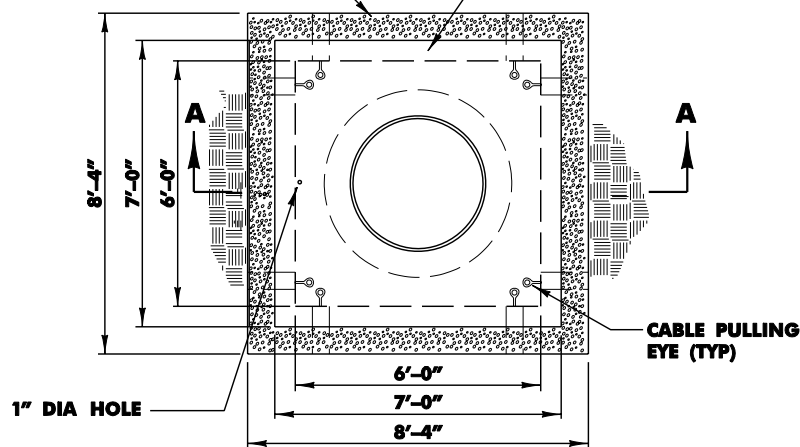
6' X 6' PRECAST MANHOLE CUSTOMER INSTALLATION

HS 20 - 44 LOADING
MAXIMUM CABLE SIZE #10

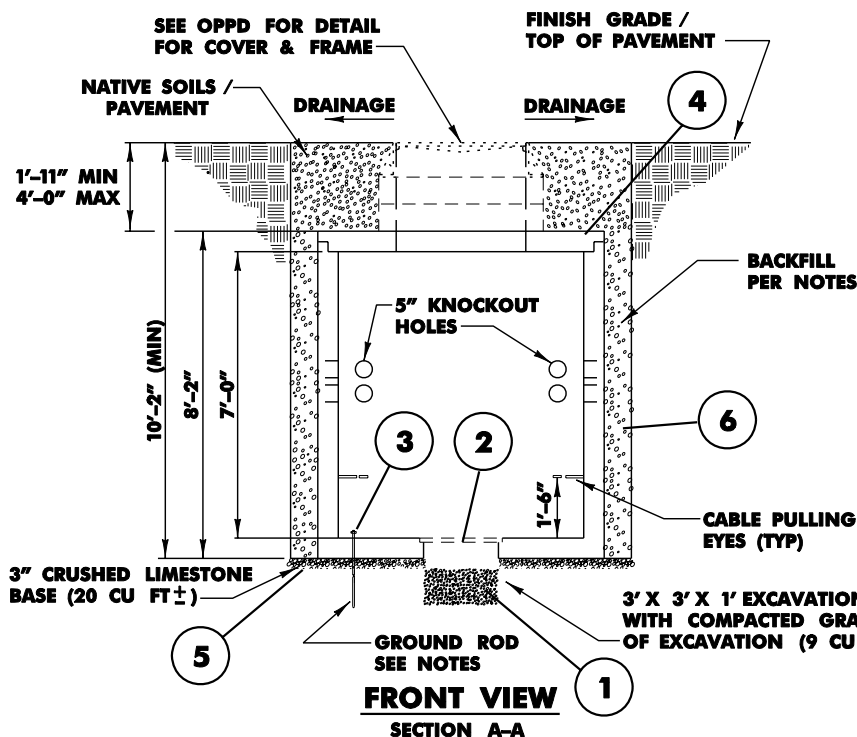
STD 8.08.9

8'-4" X 8'-4" X 10'-2" DEEP (MIN)
EXCAVATION (706 CU FT ±)

6' X 6' PRECAST
CONCRETE MANHOLE



TOP VIEW



FRONT VIEW

SECTION A-A

NOTES:

CONTACT ENGINEER IF SOIL MOISTURE /
GROUND WATER IS ENCOUNTERED AT
DEPTH OF LESS THAN 3'-0" BELOW GRADE.

TOP PORTION OF MANHOLE = 2.42 TONS
BOTTOM PORTION OF MANHOLE = 8.75 TONS

DRIVE 5/8" X 10' GROUND ROD
(0000002821) THRU 1" HOLE IN BOTTOM OF
PRECAST MANHOLE PRIOR TO THE
SETTING OF THE TOP OF MANHOLE.
EXTEND GROUND ROD 6" ABOVE MANHOLE
FLOOR.

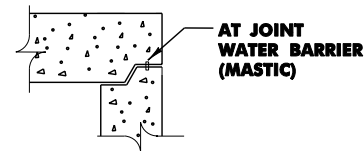
WATER BARRIER (MASTIC) PROVIDED BY
MANHOLE MANUFACTURER MUST BE
INSTALLED BETWEEN TOP AND
BOTTOM PORTIONS.

COLLARS SHALL BE SHIMMED & GROUTED
ON MANHOLE ROOF TO ATTAIN REQUIRED
SLOPE PER DIRECTION OF ENGINEER.

BACKFILL TO TOP OF MANHOLE WITH
"FLOWABLE FILL" PER NEBRASKA
DEPARTMENT OF ROADS (NDOR)
SPECIFICATIONS.

BACKFILL FROM TOP OF MANHOLE TO
FINISH GRADE WITH COMPACTED SOIL
PER CITY, COUNTY OR STATE
SPECIFICATIONS, WHICHEVER GOVERNS.

MANHOLE IS FOR OPPD'S EXCLUSIVE USE.
JOINT USE WITH CUSTOMER EQUIPMENT
OF ANY NATURE SHALL NOT BE ALLOWED.



SUGGESTED TYPICAL JOINT

BILL OF MATERIAL

ITEM	DESCRIPTION	REQ'D
1	GRAVEL	1/3 CU YD
2	STEEL GRATING, 2' X 2'	1
3	GROUND ROD, 5/8" X 10'	1
4	MANHOLE, 6' X 6'	1
5	CRUSHED LIMESTONE	3/4 CU YD
6	FLOWABLE BACKFILL	7 CU YDS

FLOWABLE FILL (NDOR)	
MATERIAL	WEIGHT
CEMENT	50 LBS
FLY ASH	200 LBS
WATER	420 LBS
SAND	2700 LBS
AEA	10 OZ/CY

COMPRESSIVE STRENGTH (28 DAYS) 85-175 PSI
AIR CONTENT FOR ALL MIXES WILL BE IN THE
RANGE OF 10.0% TO 16.0%

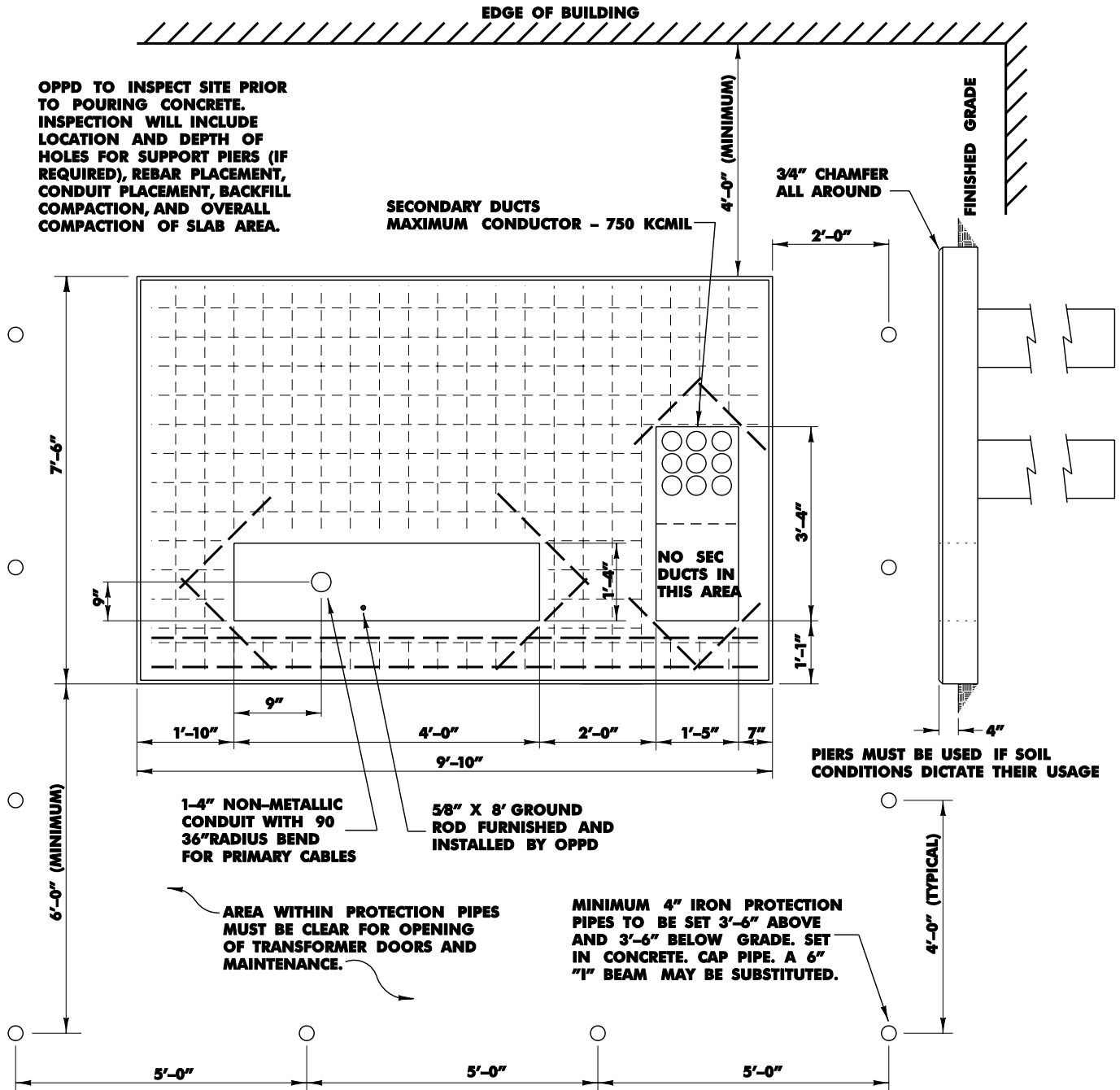
Revised 11-21-02 By BED
DESIGN ENTRY BY: BRANT DANGEL

ISSUED DATE _____

TRANSFORMER AND SECONDARY CABINET SLAB DETAIL

750 KVA & 1000 KVA TRANSFORMERS

8.09.1



EACH LOCATION SHALL HAVE A SOIL TEST PERFORMED AND A SLAB DESIGNED PER THE RESULTS. BY CUSTOMER

TRANSFORMER SLAB TO BE DESIGNED AND CONSTRUCTED BY CUSTOMER

LOCATION AND DIMENSIONS OF SLOT AND CONDUITS MUST BE MAINTAINED IN RELATION TO OVERALL SLAB DIMENSION

ALL CUSTOMER INSTALLED PRIMARY CONDUITS TO BE RODDED AND PROVEN CLEAR, AND A JET LINE TO BE LEFT IN EACH CONDUIT

DUCTS ARE NOT TO BE INSTALLED IN CONCRETE WITHIN SLOT

OPPD ENGINEERING DEPT MUST REVIEW ALL DETAILS BEFORE CONSTRUCTION

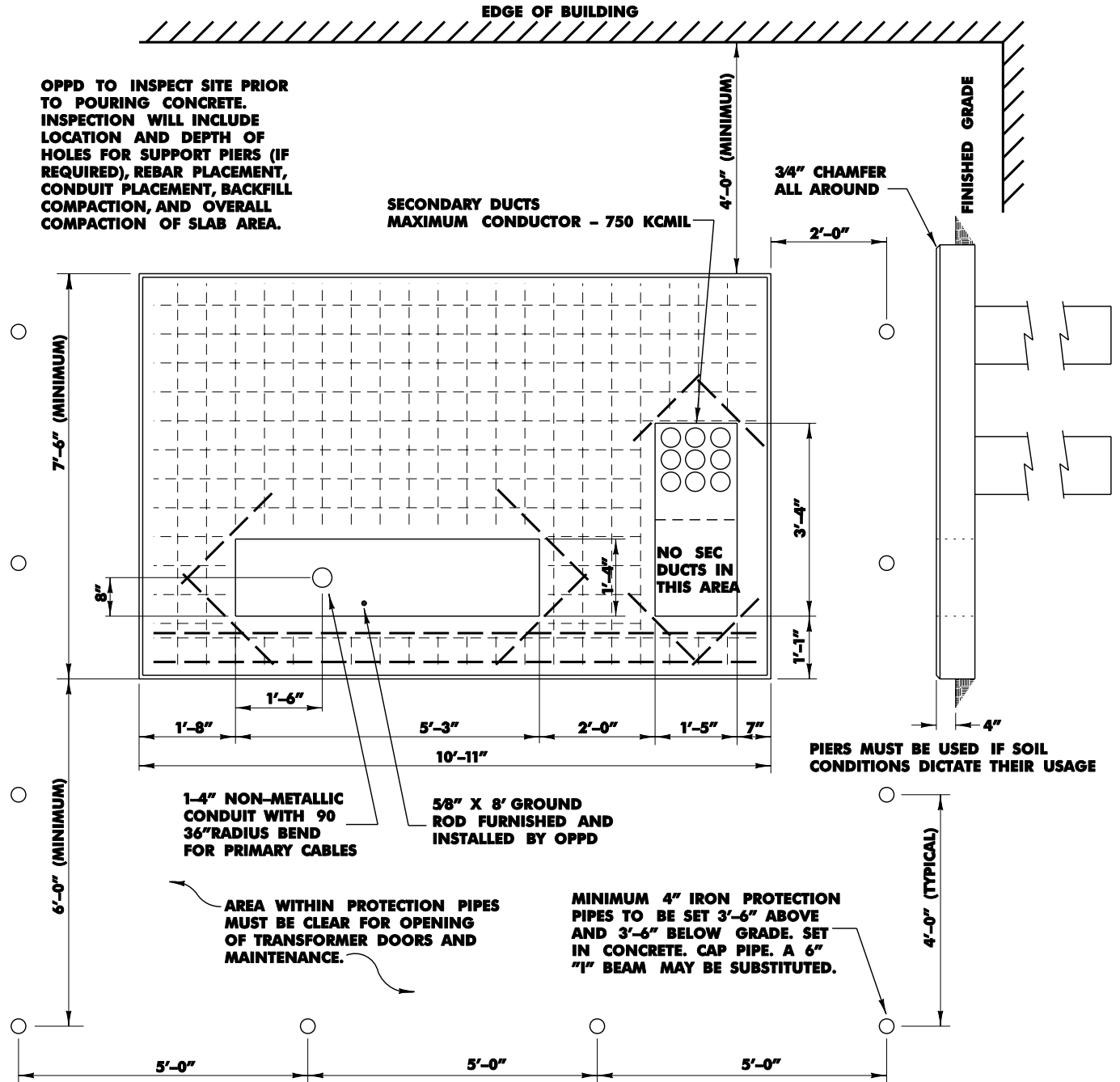
NO WALLS TO BE BUILT AROUND OR CANOPIES ABOVE TRANSFORMERS

ALL CONDUITS ENTERING SLAB TO BE VERTICAL AND AT A 90° ANGLE WITH TOP OF SLAB

TRANSFORMER AND SECONDARY CABINET SLAB DETAIL

1500 KVA, 2000 KVA & 2500 KVA TRANSFORMERS

8.09.2



EACH LOCATION SHALL HAVE A SOIL TEST PERFORMED AND A SLAB DESIGNED PER THE RESULTS. BY CUSTOMER

TRANSFORMER SLAB TO BE DESIGNED AND CONSTRUCTED BY CUSTOMER

LOCATION AND DIMENSIONS OF SLOT AND CONDUITS MUST BE MAINTAINED IN RELATION TO OVERALL SLAB DIMENSION

ALL CUSTOMER INSTALLED PRIMARY CONDUITS TO BE RODDED AND PROVEN CLEAR, AND A JET LINE TO BE LEFT IN EACH CONDUIT

DUCTS ARE NOT TO BE INSTALLED IN CONCRETE WITHIN SLOT

OPPD ENGINEERING DEPT MUST REVIEW ALL DETAILS BEFORE CONSTRUCTION

NO WALLS TO BE BUILT AROUND OR CANOPIES ABOVE TRANSFORMERS

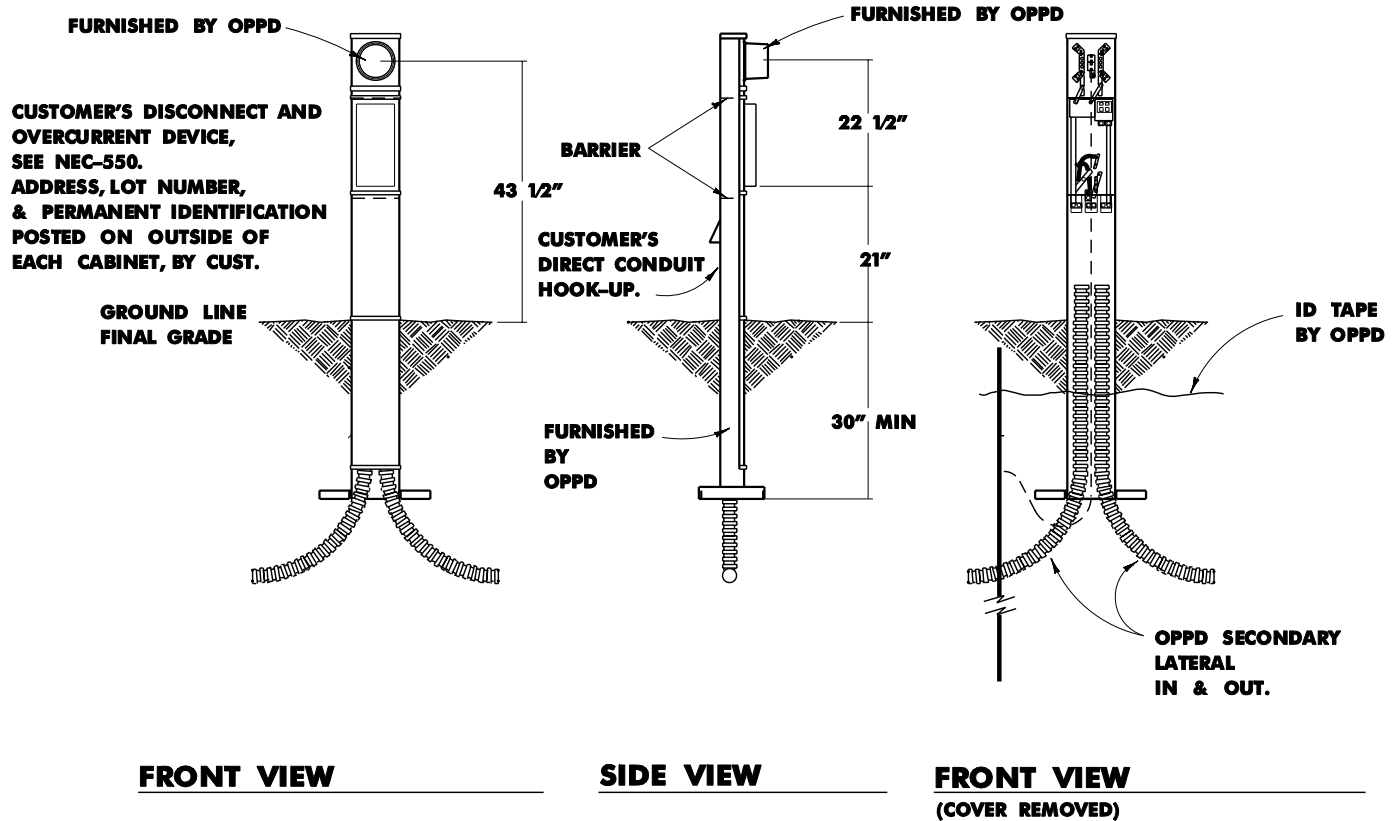
ALL CONDUITS ENTERING SLAB TO BE VERTICAL AND AT A 90° ANGLE WITH TOP OF SLAB

MOBILE HOME PARK UNDERGROUND SERVICE

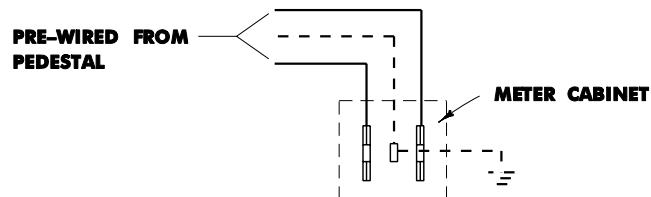
120/240V SINGLE PHASE
(SINGLE)
200 AMPERE MAX SERVICE

9.06.1

120/240V 1Ø 3W: M191
120/208V 1Ø 3W: M291



UNDERGROUND METER DISTRIBUTION
CENTER FURNISHED AND INSTALLED BY OPPD.



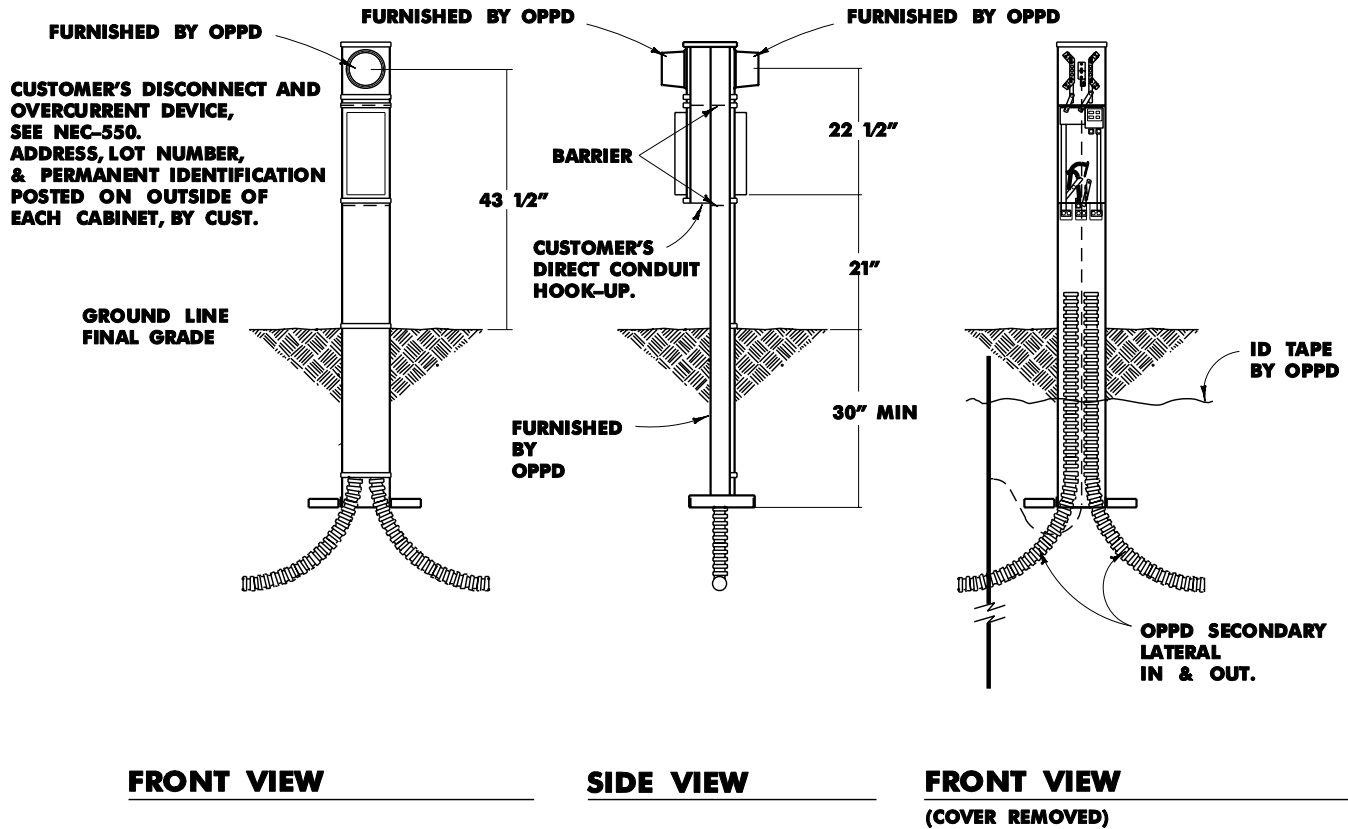
CUSTOMER'S DISCONNECT AND
OVERCURRENT DEVICE MUST BE
COMPATIBLE WITH MANUFACTURER'S PANEL.
(ONE CUSTOMER PER PANEL).

MOBILE HOME PARK UNDERGROUND SERVICE

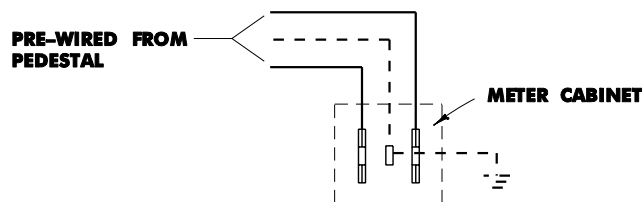
120/240V SINGLE PHASE
(DOUBLE)
200 AMPERE MAX SERVICE EACH

9.06.2

120/240V 1Ø 3W: M193
120/208V 1Ø 3W: M293



UNDERGROUND METER DISTRIBUTION
CENTER FURNISHED AND INSTALLED BY OPPD.



CUSTOMER'S DISCONNECT AND OVERCURRENT DEVICE MUST BE COMPATIBLE WITH MANUFACTURER'S PANEL. (ONE CUSTOMER PER PANEL).

ONE LINE DIAGRAM

MOBILE HOME PARK SECONDARY SERVICE

FROM OVERHEAD

9.07

2 NUMBER 2 RH-RW
COPPER WIRES OR
EQUIVALENT CONTINUOUS
TO BOTTOM METER
1 NUMBER 2 BARE OR
WHITE CODED COPPER
WIRE TO BOTTOM METER

1 1/4" MINIMUM CONDUIT

NEUTRAL CONDUCTOR MUST
BE BONDED IN AND TO
THE METER SOCKET (S)

CONTINUOUS COPPER
GROUND WIRE TO BE
NOT LESS THEN A
NUMBER 6 FROM THE
BOTTOM METER TO THE
GROUND ROD. FASTEN
SECURELY TO POLE
WITH STAPLES

GROUND ROD PER CURRENT
"NATIONAL ELECTRICAL
CODE"

RACK AND
INSULATORS
FURNISHED BY
O.P.P.D

SERVICE CONNECTORS
FURNISHED AND
INSTALLED BY O.P.P.D.

1 1/4" METER SOCKET (S)
FURNISHED BY CUSTOMER.

METER BY O.P.P.D.

1 1/4" X 3" NIPPLE

1" X 3" NIPPLE

MOBILE HOME SERVICE
EQUIPMENT SHALL BE
"NATIONAL ELETRICAL
CODE" MINIMUM

SERVICE ENTRANCE HEAD
TO BE 2" ABOVE NEUTRAL
INSULATOR

120/240V 1Ø 3W: M190
120/208V 1Ø 3W: M290

JUMPER TO
EXTEND MINI-
MUM 3 FEET
FROM SERVICE
ENTRANCE HEAD

SECONDARY
CONDUCTORS
FURNISHED
AND INSTALLED
BY O.P.P.D.

30' CLASS 6 POLE
FURNISHED AND SET
BY O.P.P.D.

1" LB CONDUIT

1" CONDUIT

GRADE LINE

1/2" X 8' NON-FERROUS
GROUND ROD

NOTES:

IF ONLY ONE METER IS REQUIRED
OMIT TOP SOCKET TOGETHER WITH
ITS SERVICE EQUIPMENT.

IF FOUR METERS ARE REQUIRED
DUPLICATE THIS INSTALLATION
ON OTHER SIDE OF POLE.

SIZE OF METERED CONDUCTORS
TO BE NATIONAL ELECTRICAL
CODE OR LARGER.

CUSTOMER TO FURNISH ALL
MATERIAL, EXCEPT WHERE NOTED.

ALL MATERIAL FURNISHED BY THE
CUSTOMER SHALL EQUAL OR EXCEED
THE STANDARDS AS SPECIFIED IN
THE "NATIONAL ELECTRICAL CODE."

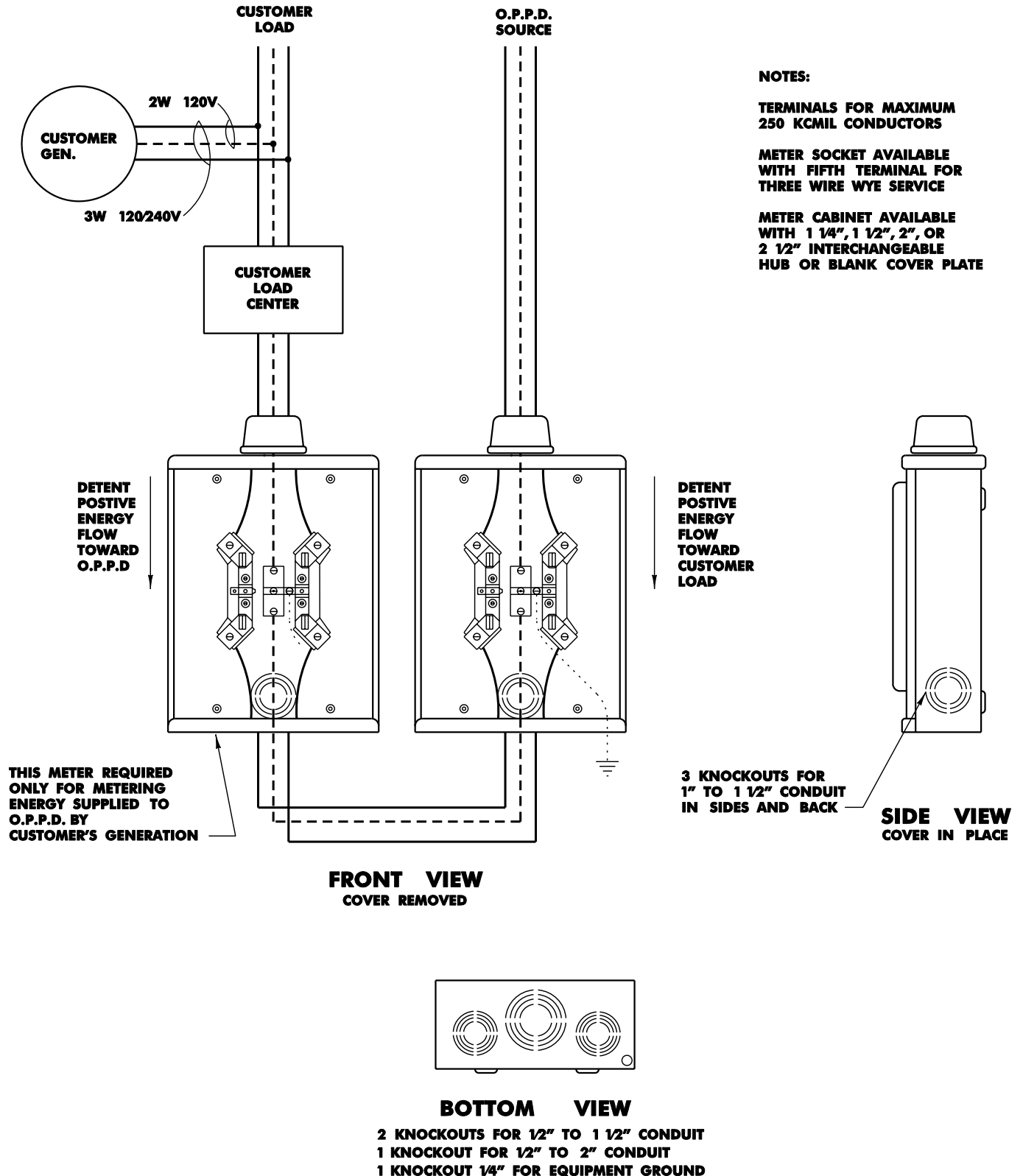
REFER TO SECTION 9.07 FOR
INSTALLATION AND SERVICE
REQUIREMENTS

SURFACE TYPE METER SOCKET

120/240 VOLT 3 WIRE 200 AMPERES
FOR CUSTOMERS WITH INTERCONNECTED GENERATION

11.08

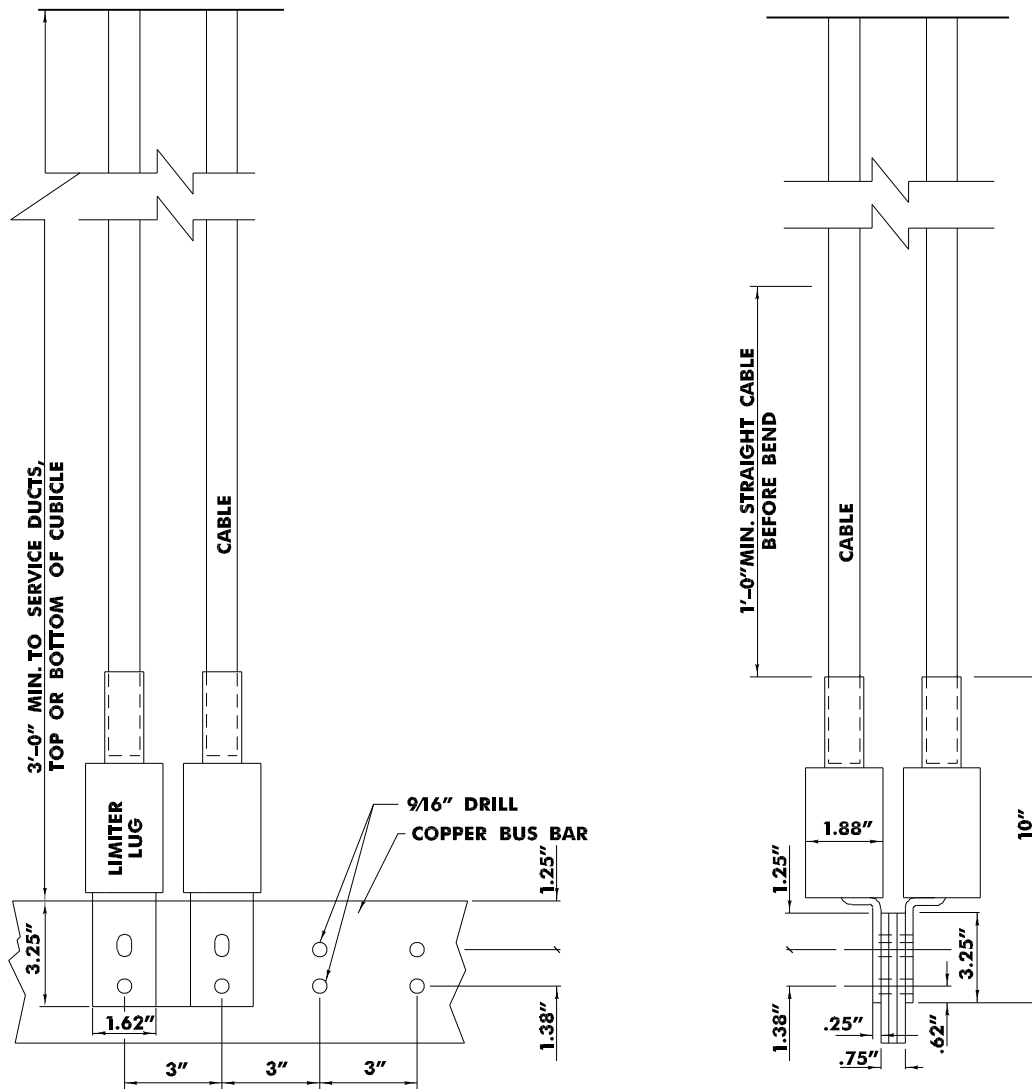
M128
M228



LIMITER INSTALLATION

500 KCMIL CABLES
120/208V 3Ø 4W
277/480V 3Ø 4W
480V 3Ø 3W

12.02.1

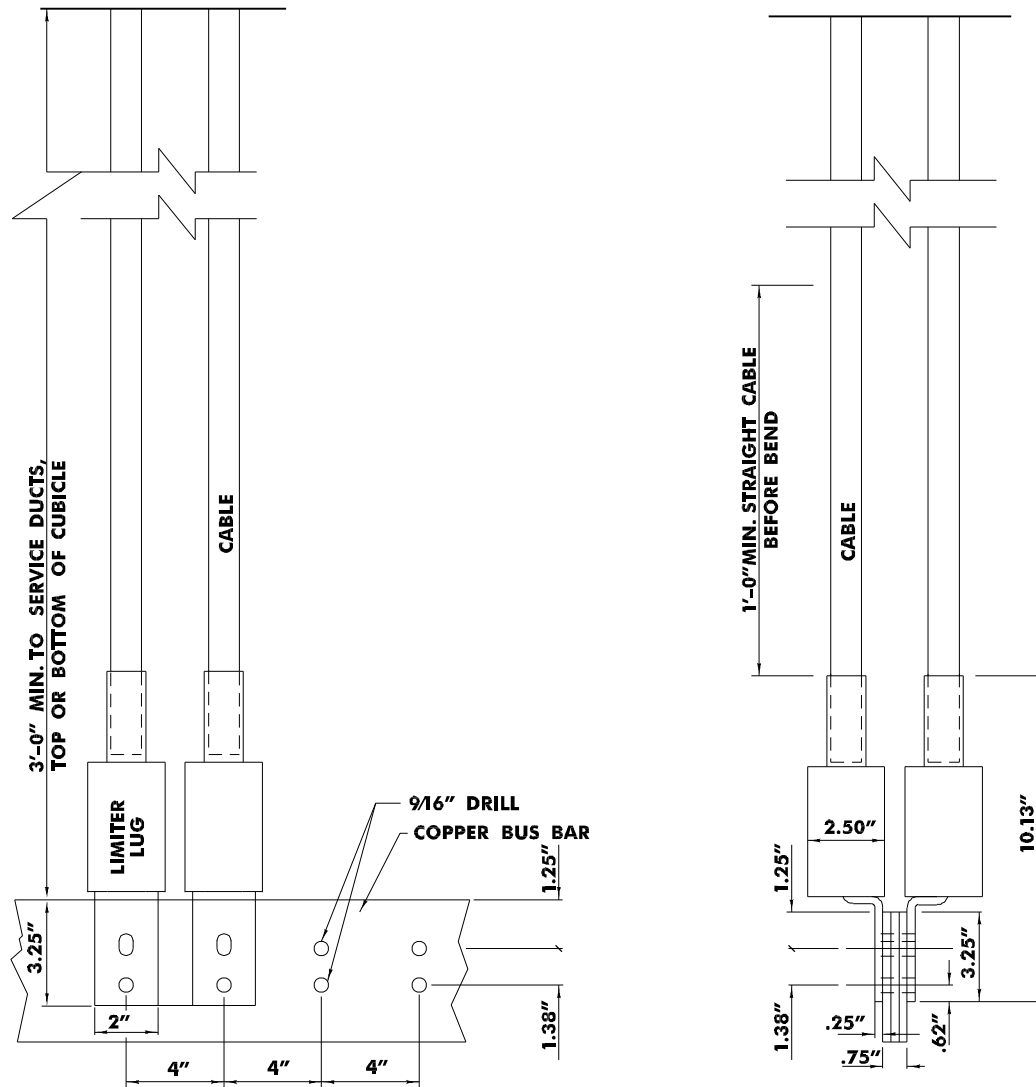


LIMITER CATALOG ID - 0000162577

LIMITER INSTALLATION

750 KCMIL CABLES
120/208V 3Ø 4W
277/480V 3Ø 4W
480V 3Ø 3W - FOR MAINTENANCE ONLY

12.02.2



LIMITER CATALOG ID - 0000162578