

# SECTION A

## BOARD OF LIGHT AND POWER



KIRBY D. JUNTILA  
EXECUTIVE DIRECTOR

CITY OF MARQUETTE  
2200 WRIGHT ST.  
MARQUETTE, MI. 49855-1398

Meter Dept 906 228-0303  
Engr. Dept: 906 228-0323  
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Web Site: www.mblp.org

July 12, 2010

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## SECTION A

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#### Service Connection Policy

The Marquette Board of Light & Power (MBLP) has updated its customer information handout for electrical service installations. Attached are information sheets for typical electrical service installations and equipment for new construction and service upgrading.


For all construction, any overhead or underground electrical service and metering locations, are to be approved by the MBLP. Connection points, approved meter sockets, transformers and all related equipment must be mounted in a location that will provide clear year round access. Some locations may be unacceptable because access is restricted by fencing, shrubbery, pets, seasonal snow pack, rights-of-way or clearances as per the National Electrical Code. (N.E.C.) See attached approved equipment, socket grounding and location information (Section B). Any questions about the location of meter devices or equipment must be directed to the MBLP Meter Department BEFORE INSTALLATION.

It is the customer's responsibility to:

- Obtain an electrical permit from and have the services inspected and approved by the Marquette County Electrical Inspector. Office Number (906) 225-8180.
- Have services & equipment installed that meet all requirements of the Marquette Board of Light and Power.
- Provide all required information and any required deposits to the Billing Office at 228-0313.

After receiving the required installation/connection request from the Billing Department, plus notice from the electrical inspector that the service is in compliance with all codes and regulations, the meter will be installed and the service scheduled for connection. **"It is not the intent of this utility to interpret code compliance or design specifications."** Any questions should be directed to the proper inspecting authority or professional consultant/contractor.

Any questions regarding the service connection policy can be directed to the MBLP Meter Department at (906) 228-0302, or the Distribution Department at (906) 228-0301.

  
\_\_\_\_\_  
David A. Lynch  
Superintendent of Distribution



# BOARD OF LIGHT AND POWER

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## GENERAL REQUIREMENTS

### Equipment on MBLP Poles

All customers installing underground services to be fed from the MBLP poles are to request a site inspection to evaluate the feasibility of doing so. The attached authorization form must be filled out by an authorized MBLP employee with the proper departmental authorizations initialed. It is the policy of the MBLP, that all underground services fed from an existing overhead system shall be installed in conduit from its source up to the metering socket. Direct buried services will not be connected. The MBLP may also require the installations of stand-off brackets on the pole to enable safe climbing of the pole when required. The meter cannot be placed on MBLP poles without written exception. **The customer is responsible for:**

- **Approved Meter Socket, Wire, conduit, wireways, straps, weatherheads and associated equipment up to the connection point.**
- **Installing the first 10 feet of conduit over wire emerging from the ground.**

The MBLP will assist with the installation of furnished material up to the point of connection. All material **MUST** be on site at the time of connection.

### Underground Services

Supply and Installation of all underground service wire, conduit, cable, grounding equipment and approved sockets, is the responsibility of the customer. All underground services must be installed as per current N.E.C. requirements, MBLP requirements (See Section B), and installed to within a distance of 12" of the MBLP underground supply equipment, with adequate conductor to enable routing and connection to MBLP equipment.

### Overhead Services

All Overhead services must be installed as per current N.E.C. requirements. All clearances must be maintained as per code requirements and MBLP requirements (See Section C). **The customer is responsible for:**

- **All materials and installation up to and including approved socket, cable or conduit and weatherhead.**
- **Providing a solid point of attachment for overhead service drop at mast or on a structure.**

### Multiple Position Meter Sockets

Multiple Position Meter Sockets must be labeled with the proper billing addresses served by the meter prior to connection. See attached information (Section C - Page 7) for additional requirements.

### Meter Service Socket Size Requirements

All single phase and three phase electrical services up to 400 amps shall have self contained sockets. All services over 400 amps shall be transformer rated. For Transformer rated meter packages (See Section B - Page 8), contact MBLP Meter Department prior to installation.

### Primary Installations

Residential underground wiring is to be provided and installed by MBLP. Coordination with the Engineering Department prior to beginning work is required. Engineering can be reached at (906) 228-0323. Primary underground conduit for commercial facilities is to be provided and installed by the customer as per MBLP requirements.



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July 12, 2010

## AUTHORIZATION FOR CUSTOMER OWNED SERVICE RISER AND ASSOCIATED EQUIPMENT ON UTILITY OWNED POWER POLE

CUSTOMER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

CUSTOMER/ELECTRICIAN PERFORMING WORK: \_\_\_\_\_

CUSTOMER/ELECTRICIAN PHONE NO.: \_\_\_\_\_

POLE LOCATION: \_\_\_\_\_ SIZE/TYPE \_\_\_\_\_

SERVICE SIZE: \_\_\_\_\_ AMPS:

DISCONNECT ON POLE: YES / NO STAND-OFF BRACKETS REQUIRED: YES / NO

NO. OF RISERS \_\_\_\_\_ SIZE of RISERS \_\_\_\_\_ SERVICE PHASE: \_\_\_\_ 1  $\phi$  \_\_\_\_ 3 $\phi$

METER LOCATION: \_\_\_\_ BLP POLE: \_\_\_\_ CUSTOMER'S PEDESTAL \_\_\_\_ BUILDING

DATE AUTHORIZED: \_\_\_\_\_ ENGR. DEPT. AUTHORIZATION \_\_\_\_\_

It is the policy to have all meters placed on the residence unless excepted in writing by the meter department. All underground services shall be installed in conduit from source to meter socket (Sch 40 electrical grade PVC). The Board may also require rigid conduit for the first 10 feet above grade at the riser pole if the location is accessible to motor vehicle traffic. The Board may also require the installation of stand off brackets on the pole to enable safe climbing of the pole. All services will be installed per code referencing the latest edition of the National Electrical Code Handbook. Risers not installed per the Boards specification will not be connected. Once installed the riser will remain under the ownership of the customer. It will be the customer's responsibility to maintain the equipment in a satisfactory condition. It will also be the the responsibility of the customer to arrange for the transfer of his/her equipment in the event of a pole failure and subsequent replacement, by either a qualified electrician or by the Board. The costs associated with the transfer of the customer owned riser are to be assumed by the customer. It will be responsibility of the customer to keep the riser in good electrical condition. Any riser deemed a hazard, upon proper notice to the customer, will be disconnected. The Board will reserve the right to approve or disapprove any riser installation due to existing conditions or future plans at the pole location. By acceptance of this agreement the customer agrees to indemnify and hold harmless the Board of Light and Power from any and all claims associated with the installation and maintenance of the riser and associated service equipment.

CUSTOMER SIGNATURE \_\_\_\_\_ Date: \_\_\_\_\_

## SECTION B

### APPROVED METER SOCKET REQUIREMENTS AND NOTES

1. A LIST OF APPROVED SUPPLIERS AND CATALOG NUMBERS FOR USE ON THE MBLP SYSTEM CAN BE FOUND IN THIS SECTION. YOU MAY USE OTHER SUPPLIERS AND CATALOG NUMBERS AS LONG AS THEY ARE EQUIVALENT TO THE APPROVED SOCKETS FOR THE SERVICE TO BE METERED. **THE MBLP REQUIRES THAT ALL METER SOCKETS BE GROUNDED WITH AN APPROVED MANUFACTURER INSTALLED GROUND CONNECTOR IN THE METER SOCKET.**
2. THE CUSTOMER MUST SUPPLY AND INSTALL ALL HUB'S, AND HUB CLOSURE PLATES AS NEEDED.
3. LEVER BY-PASS REQUIREMENTS FOR **RESIDENTIAL SINGLE PHASE** METER SOCKETS.

RESIDENTIAL SINGLE PHASE	
100 AMP AND 200 AMP	MUST <b>NOT</b> HAVE A "LEVER" BY-PASS
400 AMP	MUST <b>HAVE</b> A "LEVER" BY-PASS

4. ALL COMMERCIAL SINGLE POSITION SOCKETS REQUIRE A "LEVER" BYPASS.
5. METER SOCKETS THAT REQUIRE LUGS - CHECK WITH THE MANUFACTURER FOR THE PROPER LUG KIT.
6. 5TH JAW IN METER SOCKETS FOR A 120/208 NETWORK SERVICE MUST BE MOUNTED IN THE 9 O'CLOCK POSITION.
7. THE MBLP WILL NO LONGER OFFER THREE PHASE DELTA CONNECTED SERVICE. EXISTING THREE PHASE DELTA CUSTOMERS MAY CONTINUE TO RECEIVE SERVICE AT PRESENT VOLTAGE AND SERVICE SIZE. ANY CHANGES TO THE NATURE OF THE SERVICE, EITHER INCREASED LOAD AND OR OTHER ALTERATION, MAY REQUIRE RECONNECTION AS A THREE PHASE WYE. THREE PHASE WYE SERVICE WILL BE AVAILABLE AS 120/208 OR 277/480 VOLT IN OVERHEAD AND PADMOUNTED CONFIGURATIONS.

All reasonable care has been taken to ensure the accuracy of the catalog numbers in this section. We cannot guarantee that they are free of errors due to changes made by the manufacturers. It is the responsibility of the installer to verify that the proper equipment installation is in accordance with the manufacturer's instructions and is also in compliance with all local, state and national codes.

MARQUETTE BOARD OF LIGHT & POWER

Drawn By: JAV

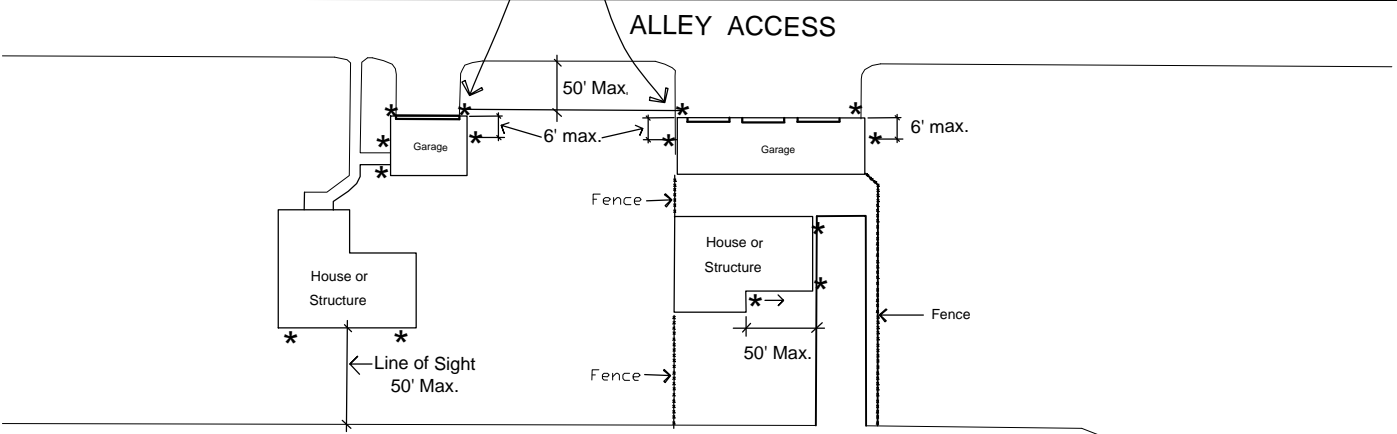
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REVISED

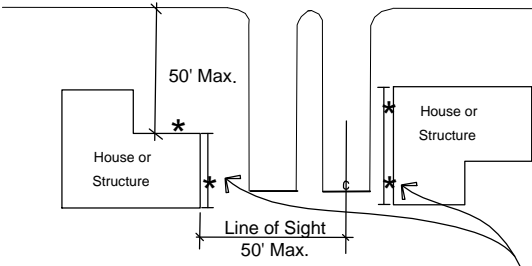
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SECTION B- Page 1

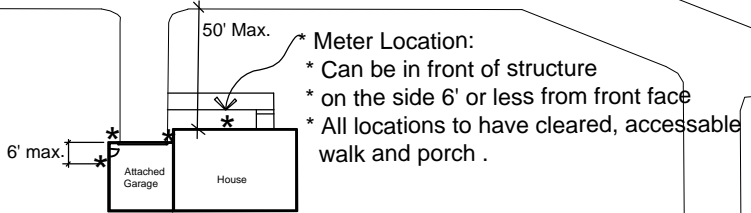
**\* Meter Location:**  
 \* Can be in front of structure  
 \* on the side 6' or less from front face  
 \* All locations to have cleared, accessible walk and/or porch .



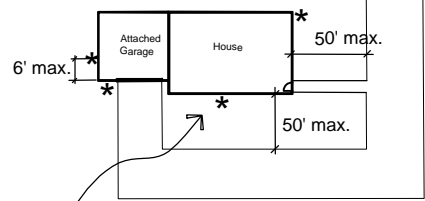
MAIN ST.



**\* Meter Location:**  
 - Adjacent driveways must be in line of Sight  
 50' Maximum distance.



**\* Meter Location:**  
 \* Can be in front of structure  
 \* on the side 6' or less from front face  
 \* All locations to have cleared, accessible walk and porch .



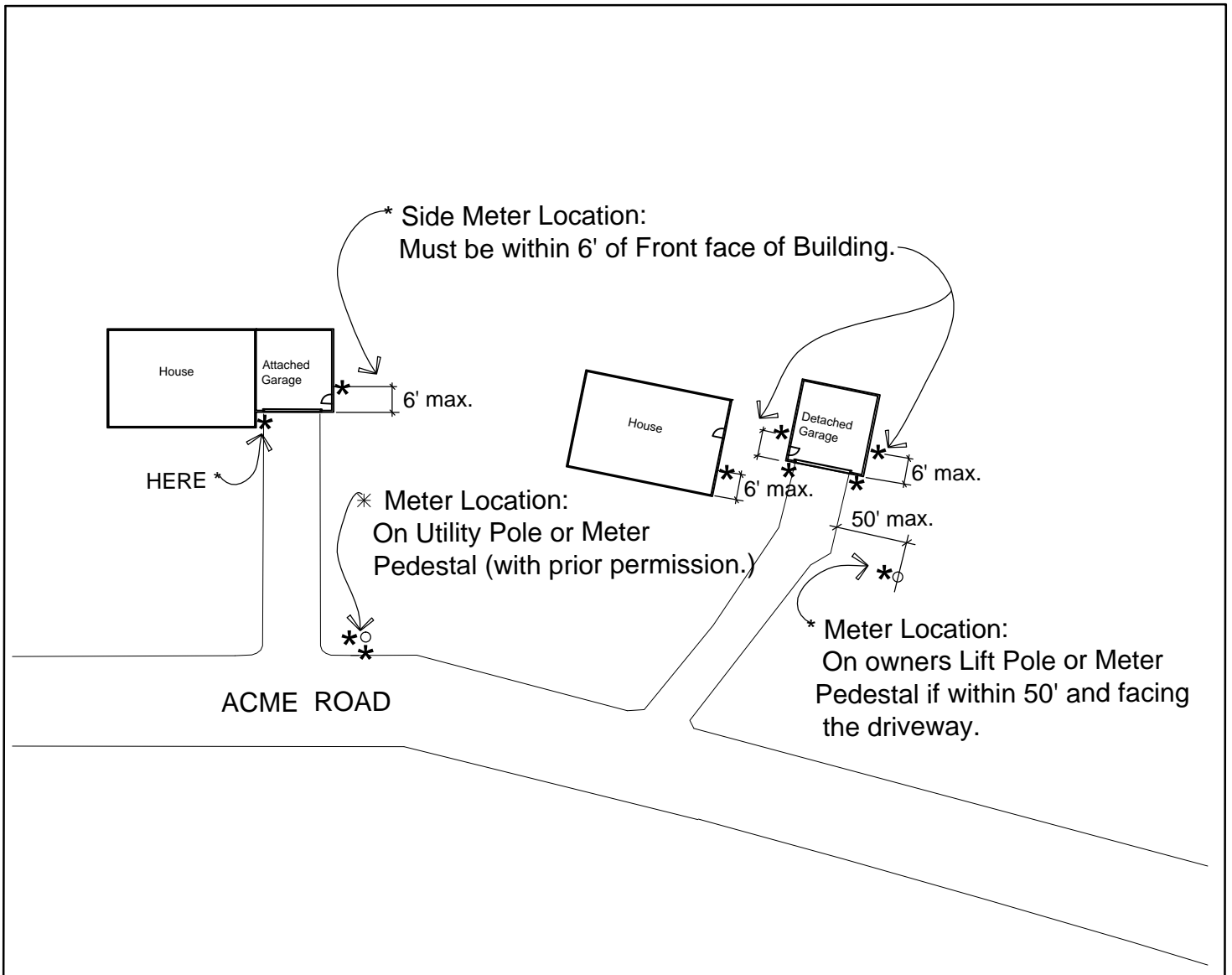
**\* Meter Location:**  
 Can be in rear of structure ONLY  
 with plowed accessible driveway or alleyway.

- \* REQUIRED TYPICAL METER LOCATIONS**
1. Meter must be mounted on structure or pole adjacent to cleared driveway or cleared walkway.
  2. Meter locations shown are subject to existing utility feed, right-of-ways, terrain, foliage, and clearances as per the National Electrical Code. For approval prior to installation contact Marquette Board of Light and Power Meter Department at (906) 228-0302 or 228-0303.

MARQUETTE BOARD OF LIGHT & POWER

TYPICAL METER LOCATIONS FOR RESIDENCES OR GARAGES

Drawn By: JAV	JOB NO.:	SECTION B - Page 2
	DATE: 02/28/08	



**\* REQUIRED TYPICAL METER LOCATIONS**

1. Meter must be mounted on structure or pole adjacent to cleared driveway or cleared walkway.
2. Meter locations shown are subject to existing utility feed, right-of-ways, terrain, foliage, and clearances as per the National Electrical Code. For approval prior to installation contact Marquette Board of Light and Power Meter Department at (906) 228-0302 or 228-0303.

\* Meter Location:  
 -Must be accessible from driveway.  
 - Must be mounted on service pole or pedestal.

\* Meter Location:  
 Mounted on Service  
 Post or Pedestal.

\* Meter Location:  
 Mounted on Service  
 Post or Pedestal.  
 (Facing Road or Drive)  
 50' Maximum

STREET A

STREET B

- \* REQUIRED TYPICAL METER LOCATIONS**
1. Meter must be mounted on structure or pole adjacent to cleared driveway or cleared walkway.
  2. Meter locations shown are subject to existing utility feed, right-of-ways, terrain, foliage, and clearances as per the National Electrical Code. For approval prior to installation contact Marquette Board of Light and Power Meter Department at (906) 228-0302 or 228-0303.

MARQUETTE BOARD OF LIGHT & POWER

TYPICAL METER LOCATIONS FOR MOBILE AND MODULAR HOMES

Prepared By: JAV

JOB NO.:

DATE: 02/28/08

SECTION B - Page 4

**RESIDENTIAL OVERHEAD SERVICE 100 AMP**

**4 TERMINAL SINGLE PHASE 120/240 VOLT METER SOCKETS**

SUPPLIER	100 AMP 1 POS	100 AMP 2 POS HORIZONTAL	100 AMP 2 POS VERTICAL	100 AMP 3 POS HORIZONTAL	100 AMP 3 POS VERTICAL
CUTLER HAMMER	UTRS 101 BCH	UT2R1421BCH**		UT2R1431BCH**	
LANDIS & GYR / SIEMENS	UAT 111-OG*	UA2311-OG**	UA2B11-O	UA3311-OG**	UA3B11-O
MILBANK	U7487-RL-TG*	U8212-RL-TG*	U2692-RL-TG*	U8213-RL-TG*	U2693-RL-TG*

**RESIDENTIAL OVERHEAD SERVICE 200 AMP**

**4 TERMINAL SINGLE PHASE 120/240 VOLT METER SOCKETS**

SUPPLIER	200 AMP 1 POS	200 AMP 2 POS HORIZONTAL	200 AMP 3 POS HORIZONTAL		
CUTLER HAMMER	UTRS 213 BCH*	UT2R 2302 TCH** (Plus Lug Kit)	UT3R 2302 TCH** (Plus Lug Kit)		
LANDIS & GYR / SIEMENS	UAT 417-OG*				
MILBANK	U7040-RL*	U1252-R** (Plus Lug Kit)	U1253-R** (Plus Lug Kit)		

**RESIDENTIAL OVERHEAD SERVICE 400 AMP MAX 320 AMP CONTINUOUS RATING**

**4 TERMINAL SINGLE PHASE 120/240 VOLT METER SOCKETS**

SUPPLIER	400 AMP 1 POS				
CUTLER HAMMER	UTH 4300 TCH (Plus Lug Kit)				
LANDIS & GYR / SIEMENS	47604-01FL* TYPE HQ4ST				
MILBANK	U1079-R (Plus Lug Kit)				

**RESIDENTIAL SERVICES ABOVE 400 AMP TRANSFORMER RATED**

FOR TRANSFORMER RATED METER PACKAGES, THE MBLP WILL SUPPLY TRANSFORMER RATED SOCKETS, TEST JACKS, METERING WIRE, CURRENT AND POTENTIAL TRANSFORMERS. THE CONTRACTOR MUST INSTALL THE SOCKET AND CONDUIT FROM THE SOURCE TO THE METER SOCKET (NOT TO EXCEED 50 FEET). THE CONTRACTOR MUST CONTACT THE METER DEPARTMENT WITH SERVICE SIZE AND CONNECTED LOAD INFORMATION AND MUST HAVE THE METER SOCKET LOCATION APPROVED BEFORE THE SOCKET IS INSTALLED.

**FOR 120/208 NETWORK SERVICES CHECK WITH SUPPLIER FOR 5TH JAW CATALOG NUMBER - 5TH JAW MUST BE IN THE 9 O-CLOCK POSITION.**

\* METER SOCKET IS RATED FOR OVERHEAD OR UNDERGROUND SERVICE APPLICATIONS BY THE MANUFACTURER, ALTHOUGH THE SOCKET MAY BE USED FOR UNDERGROUND IT IS RECOMMENDED TO USE A SIDE WIRED SOCKET LISTED IN THE UNDERGROUND SERVICE CATEGORY, SO THERE IS NO NEED TO BEND THE WIRES TO THE TOP OF THE SOCKET. IF NOT LISTED CHECK WITH THE SUPPLIER FOR THE CATALOG NUMBER.

\* \* METER SOCKET HAS A SIDE WIRED TERMINATION POINT OR A CENTER WIRED TERMINATION POINT AND CAN BE USED FOR A UNDERGROUND OR OVERHEAD SERVICE.

<b>RESIDENTIAL UNDERGROUND SERVICE 100 AMP</b>					
<b>4 TERMINAL SINGLE PHASE 120/240 VOLT METER SOCKETS</b>					
<b>SUPPLIER</b>	<b>100 AMP 1 POS</b>	<b>100 AMP 2 POS HORIZONTAL</b>	<b>100 AMP 3 POS HORIZONTAL</b>		
CUTLER HAMMER	UTRS 121 ACH	UT2R-1421CCH**	UT3R-1431CCH**		
LANDIS & GYR / SIEMENS	UAT 111-OG*	UA2311-OG**	UA 3311-OG**		
MILBANK	U7487-XL-TG*				

<b>RESIDENTIAL UNDERGROUND SERVICE 200 AMP</b>					
<b>4 TERMINAL SINGLE PHASE 120/240 VOLT METER SOCKETS</b>					
<b>SUPPLIER</b>	<b>200 AMP 1 POS</b>	<b>200 AMP 2 POS HORIZONTAL</b>	<b>200 AMP 3 POS HORIZONTAL</b>		
CUTLER HAMMER	UTRS 223 ACH	UT2R 2302 UCH** (Plus Lug Kit)	UT3R 2302 UCH** (Plus Lug Kit)		
LANDIS & GYR / SIEMENS	UAS 817-OG*				
MILBANK	U1980-O-TG*	U1252-X** (Plus Lug Kit)	U1253-X** (Plus Lug Kit)		

<b>RESIDENTIAL UNDERGROUND SERVICE 400 AMP MAX 320 AMP CONTINUOUS RATING</b>					
<b>4 TERMINAL SINGLE PHASE 120/240 VOLT METER SOCKETS</b>					
<b>SUPPLIER</b>	<b>400 AMP 1 POS</b>				
CUTLER HAMMER	UTH 4320 ACH (Plus Lug Kit)				
LANDIS & GYR / SIEMENS	44604-02 HQ4SW (Plus Lug Kit)				
MILBANK	U1129-0 (Plus Lug Kit)				

**RESIDENTIAL SERVICES ABOVE 400 AMP TRANSFORMER RATED**

FOR TRANSFORMER RATED METER PACKAGES, THE MBLP WILL SUPPLY TRANSFORMER RATED SOCKETS, TEST JACKS, METERING WIRE, CURRENT AND POTENTIAL TRANSFORMERS. THE CONTRACTOR MUST INSTALL THE SOCKET AND CONDUIT FROM THE SOURCE TO THE METER SOCKET (NOT TO EXCEED 50 FEET). THE CONTRACTOR MUST CONTACT THE METER DEPARTMENT WITH SERVICE SIZE AND CONNECTED LOAD INFORMATION AND MUST HAVE THE METER SOCKET LOCATION APPROVED BEFORE THE SOCKET IS INSTALLED.

**FOR 120/208 NETWORK SERVICES CHECK WITH SUPPLIER FOR 5TH JAW CATALOG NUMBER - 5TH JAW MUST BE IN THE 9 O-CLOCK POSITION.**

\* METER SOCKET IS RATED FOR OVERHEAD OR UNDERGROUND SERVICE APPLICATIONS BY THE MANUFACTURER, ALTHOUGH THE SOCKET MAY BE USED FOR UNDERGROUND IT IS RECOMMENDED TO USE A SIDE WIRED SOCKET LISTED IN THE UNDERGROUND SERVICE CATEGORY, SO THERE IS NO NEED TO BEND THE WIRES TO THE TOP OF THE SOCKET. IF NOT LISTED CHECK WITH THE SUPPLIER FOR THE CATALOG NUMBER.

\* \* METER SOCKET HAS A SIDE WIRED TERMINATION POINT OR A CENTER WIRED TERMINATION POINT AND CAN BE USED FOR A UNDERGROUND OR OVERHEAD SERVICE.

**COMMERCIAL OVERHEAD AND UNDERGROUND SERVICE 200 AMP**

**4 TERMINAL SINGLE PHASE 120/208 VOLT SINGLE POSITION METER SOCKETS WITH LEVER BY-PASS**

SUPPLIER	200 AMP OVERHEAD	200 AMP UNDERGROUND
CUTLER HAMMER	UTH 4213 BCH*	UTH 4223 ACH
LANDIS & GYR / SIEMENS	40404-0150* TYPE HQU	
MILBANK	U9801-RL*	U3924-XL**

**COMMERCIAL SERVICE 400 AMP MAX 320 AMP CONTINUOUS RATING**

**4 TERMINAL SINGLE PHASE 120/240 VOLT 400A MAX 320A CONTINUOUS RATING METER SOCKETS**

SUPPLIER	400 AMP OVERHEAD	400 AMP UNDERGROUND
CUTLER HAMMER	UTH 4310 TCH* (Plus Lug Kit)	UTH 4320 ACH (Plus Lug Kit)
LANDIS & GYR / SIEMENS	47604-01FL* TYPE HQ4ST (Plus Lug Kit)	44604-02 TYPE HQ4SW (Plus Lug Kit)
MILBANK	U1079-R (Plus Lug Kit)	U1129-0 (Plus Lug Kit)

**COMMERCIAL SERVICES ABOVE 400 AMP TRANSFORMER RATED**

FOR TRANSFORMER RATED METER PACKAGES, THE MBLP WILL SUPPLY TRANSFORMER RATED SOCKETS, TEST JACKS, METERING WIRE, CURRENT AND POTENTIAL TRANSFORMERS. THE CONTRACTOR MUST INSTALL THE SOCKET AND CONDUIT FROM THE SOURCE TO THE METER SOCKET (NOT TO EXCEED 50 FEET). THE CONTRACTOR MUST CONTACT THE METER DEPARTMENT WITH SERVICE SIZE AND CONNECTED LOAD INFORMATION AND MUST HAVE THE METER SOCKET LOCATION APPROVED BEFORE THE SOCKET IS INSTALLED.

**FOR 120/208 NETWORK SERVICES CHECK WITH SUPPLIER FOR 5TH JAW CATALOG NUMBER - 5TH JAW MUST BE IN THE 9 O-CLOCK POSITION.**

\* METER SOCKET IS RATED FOR OVERHEAD OR UNDERGROUND SERVICE APPLICATIONS BY THE MANUFACTURER, ALTHOUGH THE SOCKET MAY BE USED FOR UNDERGROUND IT IS RECOMMENDED TO USE A SIDE WIRED SOCKET LISTED IN THE UNDERGROUND SERVICE CATEGORY, SO THERE IS NO NEED TO BEND THE WIRES TO THE TOP OF THE SOCKET. IF NOT LISTED CHECK WITH THE SUPPLIER FOR THE CATALOG NUMBER.

\*\* METER SOCKET HAS A SIDE WIRED TERMINATION POINT OR A CENTER WIRED TERMINATION POINT AND CAN BE USED FOR A UNDERGROUND OR OVERHEAD SERVICE.

5 TERMINAL NETWORK 120/208 VOLT OR GROUNDED THREE PHASE 3 WIRE DELTA 240 OR 480 VOLT 200 AMP			
SUPPLIER	200 AMP OVERHEAD	200 AMP UNDERGROUND	
CUTLER HAMMER	UTH 5213 BCH*	UTH 5223 ACH	
LANDIS & GYR / SIEMENS	40405-015F* TYPE HQ5U		
MILBANK	U9551 RL*		

5 TERMINAL NETWORK OR GROUNDED THREE WIRE DELTA 240 OR 480 VOLT 400A MAX 320A CONTINUOUS RATING METER SOCKETS			
SUPPLIER	400 AMP OVERHEAD	400 AMP UNDERGROUND	
CUTLER HAMMER	UTH 5310 TCH* (Plus Lug Kit)	UTH 5320 ACH (Plus Lug Kit)	
LANDIS & GYR / SIEMENS	47705-01FL* TYPE HQ5DT (Plus Lug Kit)	44705-02** TYPE HQ7DSW (Plus Lug Kit)	
MILBANK	U1079-R-5T9 (Plus Lug Kit)		

7 TERMINAL THREE PHASE 4 WIRE 200 AMP			
SUPPLIER	200 AMP OVERHEAD	200 AMP UNDERGROUND	
CUTLER HAMMER	UTH 7213 BCH*	UTH 7223 ACH	
LANDIS & GYR / SIEMENS	40407-015F* TYPE HQU		
MILBANK	U7423 RL*		

7 TERMINAL THREE PHASE 4 WIRE 400 A OVERHEAD 400A MAX 320A CONTINUOUS RATING METER SOCKETS			
SUPPLIER	400 AMP OVERHEAD	400 AMP UNDERGROUND	
CUTLER HAMMER	UTH 7310 TCH* (Plus Lug Kit)	UTH 7320 ACH (Plus Lug Kit)	
LANDIS & GYR / SIEMENS	47707-01FL* TYPE HQ7DT (Plus Lug Kit)	44707-02FL** TYPE HQ7DSW (Plus Lug Kit)	
MILBANK	U2594-R** (Plus Lug Kit)	U2594-X** ACH (Plus Lug Kit)	

**ALL 3 PHASE SERVICES ABOVE 400 AMP TRANSFORMER RATED**

FOR TRANSFORMER RATED METER PACKAGES THE MBLP WILL SUPPLY TRANSFORMER RATED SOCKETS, TEST JACKS, METERING WIRE, CURRENT AND POTENTIAL TRANSFORMERS. THE CONTRACTOR MUST INSTALL THE SOCKET AND CONDUIT FROM THE SOURCE TO THE METER SOCKET (NOT TO EXCEED 50 FEET). THE CONTRACTOR MUST CONTACT THE METER DEPARTMENT WITH SERVICE SIZE AND CONNECTED LOAD INFORMATION AND MUST HAVE THE METER SOCKET LOCATION APPROVED BEFORE THE SOCKET IS INSTALLED.

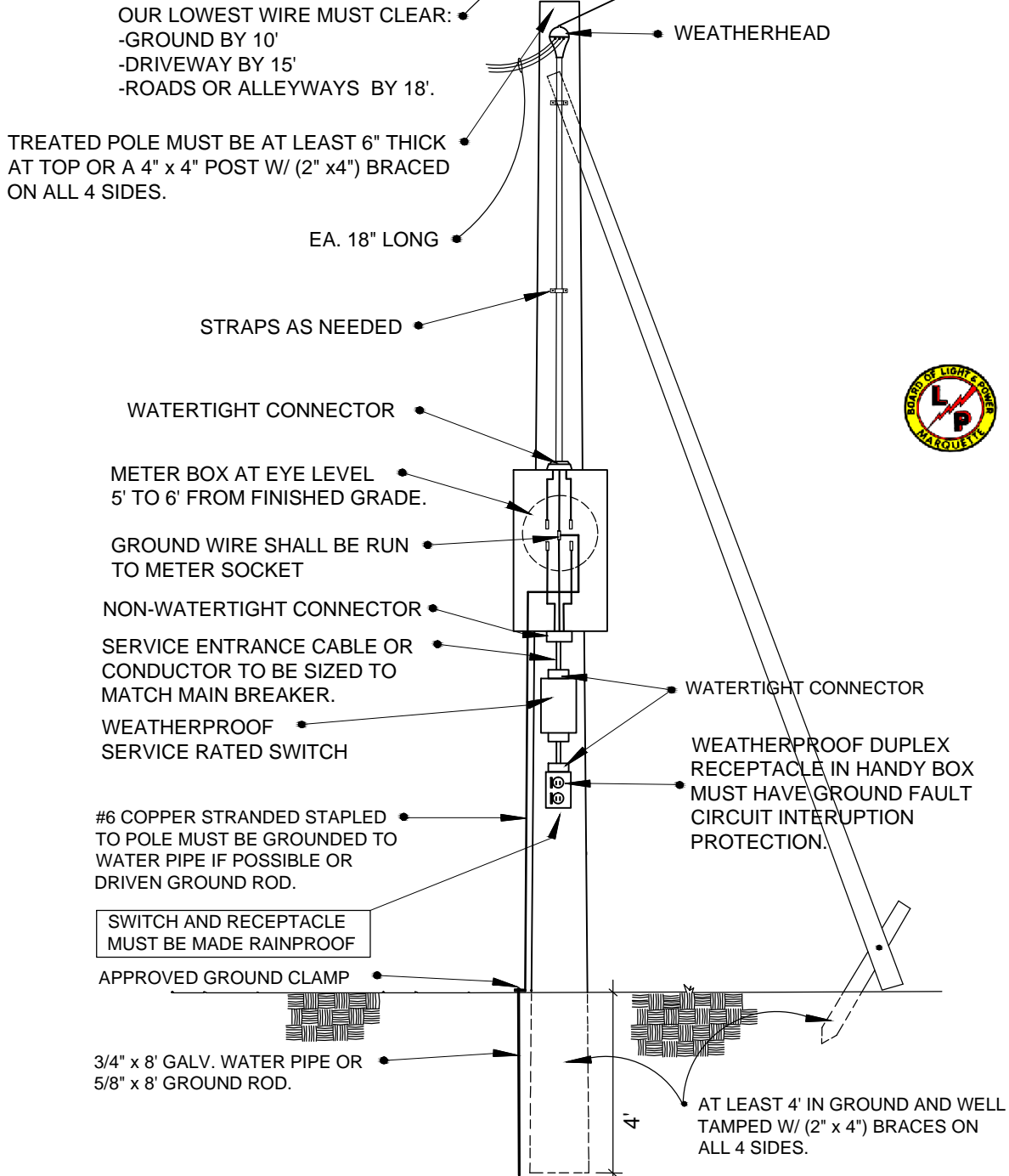
**FOR THREE PHASE MULTIPLE POSITION METER SOCKETS CONTACT THE SUPPLIER.**

\* METER SOCKET IS RATED FOR OVERHEAD OR UNDERGROUND SERVICE APPLICATIONS BY THE MANUFACTURER, ALTHOUGH THE SOCKET MAY BE USED FOR UNDERGROUND IT IS RECOMMENDED TO USE A SIDE WIRED SOCKET LISTED IN THE UNDERGROUND SERVICE CATEGORY, SO THERE IS NO NEED TO BEND THE WIRES TO THE TOP OF THE SOCKET. IF NOT LISTED CHECK WITH THE SUPPLIER FOR THE CATALOG NUMBER.

\*\* METER SOCKET HAS A SIDE WIRED TERMINATION POINT OR A CENTER WIRED TERMINATION POINT AND CAN BE USED FOR A UNDERGROUND OR OVERHEAD SERVICE.

# SECTION C

## TEMPORARY OVERHEAD SERVICE 120/ 240 VOLTS



ALL EQUIPMENT AND LABOR TO BE FURNISHED BY CUSTOMER. THIS INCLUDES METER SOCKETS (SEE PAGE FOR APPROVED MODELS) NO SERVICE WILL BE CONNECTED THAT DOES NOT MEET CURRENT NATIONAL ELECTRICAL CODE REQUIREMENTS AND HAS BEEN APPROVED BY THE MARQUETTE COUNTY ELECTRICAL INSPECTOR. SERVICE APPLICATION REQUIRED BEFORE POWER CONNECTION

MARQUETTE BOARD OF LIGHT & POWER

# TEMPORARY SERVICE 120/ 240 VOLTS

UNDERGROUND OR OVERHEAD

ALL EQUIPMENT AND LABOR TO BE FURNISHED BY CUSTOMER. THIS INCLUDES METER SOCKETS (SEE PAGE FOR APPROVED MODELS) NO SERVICE WILL BE CONNECTED THAT DOES NOT MEET CURRENT NATIONAL ELECTRICAL CODE REQUIREMENTS AND HAS BEEN APPROVED BY THE MARQUETTE COUNTY ELECTRICAL INSPECTOR. SERVICE APPLICATION REQUIRED BEFORE POWER CONNECTION

OUR LOWEST WIRE MUST CLEAR:  
 -GROUND BY 10'  
 -DRIVEWAY BY 15'  
 -ROADS OR ALLEYS BY 18'.

EA. 18" LONG

SERVICE ENTRANCE CABLE OR CONDUCTOR TO BE SIZED TO MATCH MAIN BREAKER.

TREATED POLE MUST BE AT LEAST 6" THICK AT TOP OR A 4" x 4" POST W/ (2" x 4") BRACED ON ALL 4 SIDES.

WEATHER HEAD

STRAPS AS NEEDED

UNDERGROUND ONLY

WATERTIGHT CONNECTOR  
 GROUND WIRE SHALL BE RUN TO METER SOCKET.

METER BOX AT EYE LEVEL 5' TO 6' FROM FINISHED GRADE.

NON-WATERTIGHT CONNECTOR

WATERTIGHT CONNECTOR

#6 COPPER STRANDED STAPLED TO POLE MUST BE GROUNDED TO WATER PIPE IF POSSIBLE OR DRIVEN GROUND ROD.

SERVICE RATED SWITCH W/ GROUND FAULT INTERRUPTION CAPABILITY MUST BE PROVIDED.

WEATHER PROOF DUPLEX RECEPTACLE IN HANDY BOX MUST HAVE GROUND FAULT CIRCUIT INTERRUPTION PROTECTION & WATERTIGHT CONNECTOR.

CONDUIT & STRAPS AS NEEDED.

CONDUIT & STRAPS AS NEEDED.

SWITCH AND RECEPTACLE MUST BE MADE RAINPROOF

APPROVED GROUND CLAMP

#6 COPPER STRANDED STAPLED TO POLE MUST BE GROUNDED TO WATER PIPE IF POSSIBLE OR DRIVEN GROUND ROD.

DRIVEN GROUND 3/4" x 8' GALV. WATER PIPE OR 5/8" x 8' GROUND ROD.

AT LEAST 6" IN GROUND AND ENOUGH WIRE TO REACH B.L.P. PEDESTALS IN TRENCH

POST AT LEAST 4' IN GROUND AND WELL TAMPED.



MARQUETTE BOARD OF LIGHT & POWER

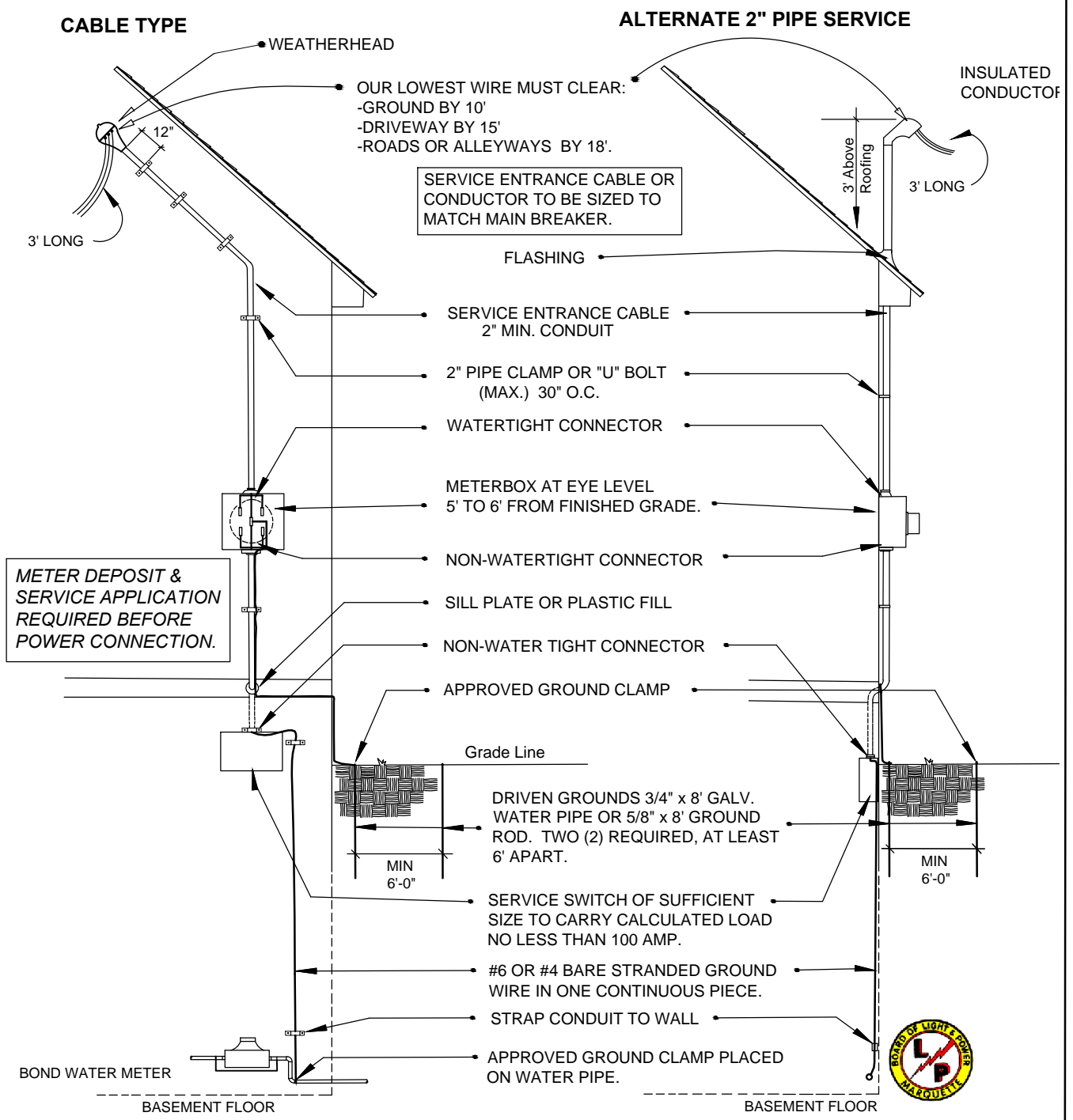
Drawn By: JAV

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DATE: 02/28/08

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# SINGLE FAMILY RESIDENTIAL SERVICE

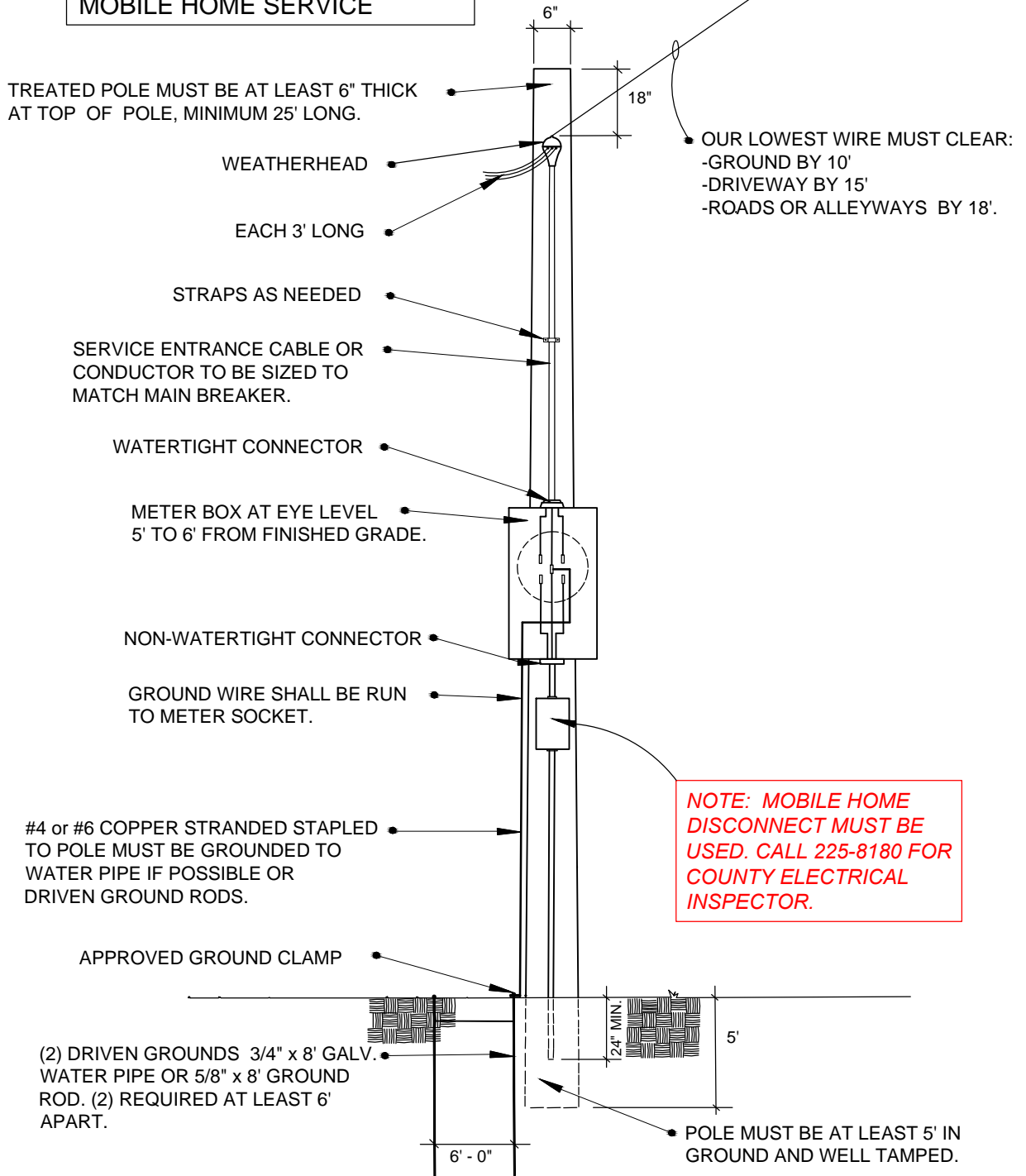


ALL EQUIPMENT AND LABOR TO BE FURNISHED BY CUSTOMER. THIS INCLUDES METER SOCKETS (SEE PAGE FOR APPROVED MODELS) NO SERVICE WILL BE CONNECTED THAT DOES NOT MEET CURRENT NATIONAL ELECTRICAL CODE REQUIREMENTS AND HAS BEEN APPROVED BY THE MARQUETTE COUNTY ELECTRICAL INSPECTOR. SERVICE APPLICATION REQUIRED BEFORE POWER CONNECTION

MARQUETTE BOARD OF LIGHT & POWER

# MOBILE HOME SERVICE 120/ 240 VOLTS

## MINIMUM REQUIREMENTS FOR MOBILE HOME SERVICE



ALL EQUIPMENT AND LABOR TO BE FURNISHED BY CUSTOMER. THIS INCLUDES METER SOCKETS (SEE PAGE FOR APPROVED MODELS) NO SERVICE WILL BE CONNECTED THAT DOES NOT MEET CURRENT NATIONAL ELECTRICAL CODE REQUIREMENTS AND HAS BEEN APPROVED BY THE MARQUETTE COUNTY ELECTRICAL INSPECTOR. SERVICE APPLICATION REQUIRED BEFORE POWER CONNECTION



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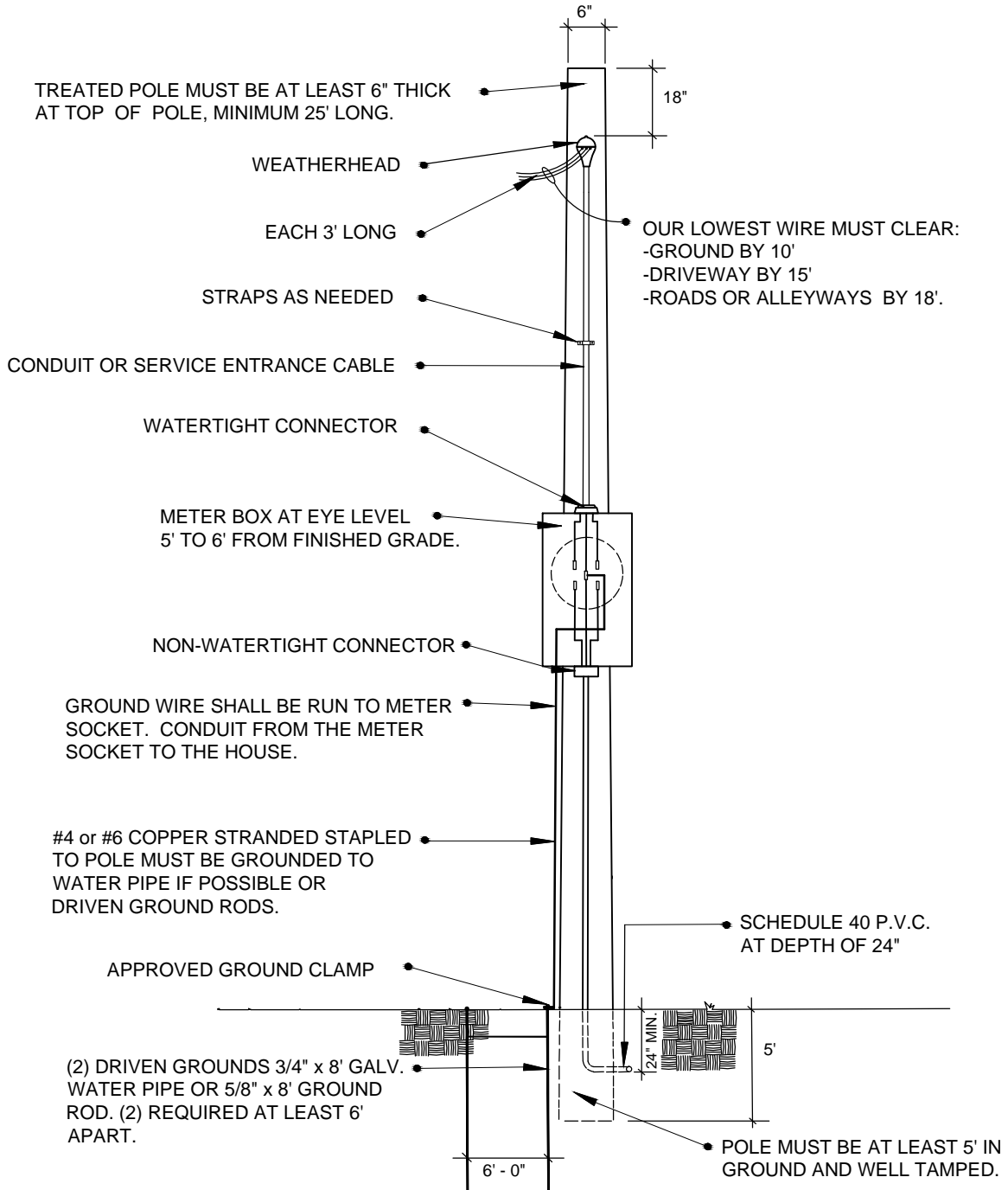
JOB NO.:

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# OVERHEAD TO UNDERGROUND RESIDENCE 120/ 240 VOLTS

## CUSTOMER OWNED POLE ONLY



ALL EQUIPMENT AND LABOR TO BE FURNISHED BY CUSTOMER. THIS INCLUDES METER SOCKETS (SEE PAGE FOR APPROVED MODELS) NO SERVICE WILL BE CONNECTED THAT DOES NOT MEET CURRENT NATIONAL ELECTRICAL CODE REQUIREMENTS AND HAS BEEN APPROVED BY THE MARQUETTE COUNTY ELECTRICAL INSPECTOR. SERVICE APPLICATION REQUIRED BEFORE POWER CONNECTION

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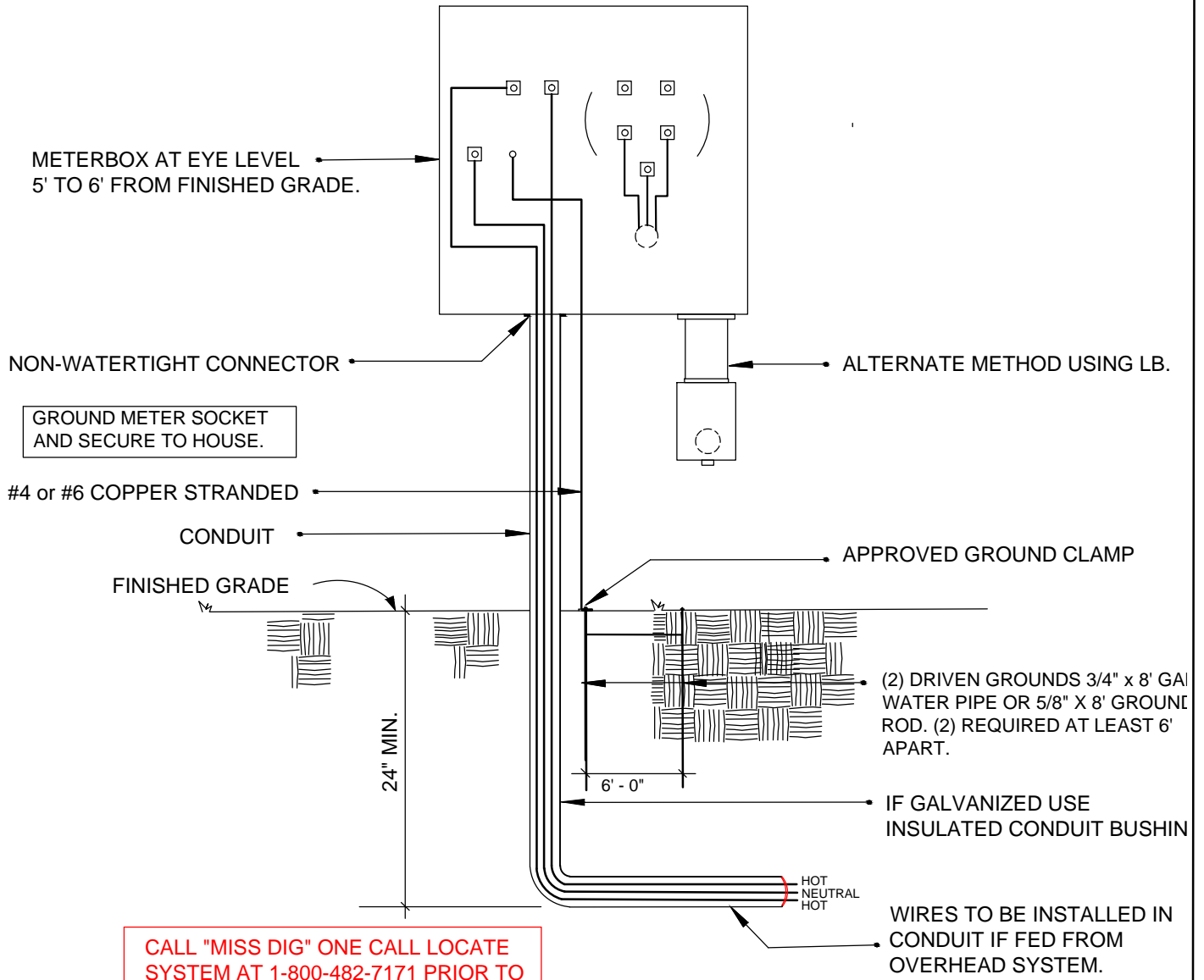
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# UNDERGROUND SERVICE 120/ 240 VOLTS



CALL "MISS DIG" ONE CALL LOCATE SYSTEM AT 1-800-482-7171 PRIOR TO ANY EXCAVATING.

THE TRENCH MUST BE EXCAVATED TO THE PEDESTAL FOR TEMPORARY OR PERMANENT POWER.

ALL EQUIPMENT AND LABOR TO BE FURNISHED BY CUSTOMER. THIS INCLUDES METER SOCKETS (SEE PAGE FOR APPROVED MODELS) NO SERVICE WILL BE CONNECTED THAT DOES NOT MEET CURRENT NATIONAL ELECTRICAL CODE REQUIREMENTS AND HAS BEEN APPROVED BY THE MARQUETTE COUNTY ELECTRICAL INSPECTOR. SERVICE APPLICATION REQUIRED BEFORE POWER CONNECTION



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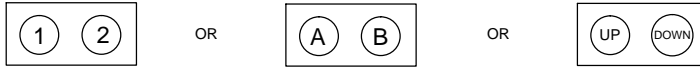
Drawn By: JAV	JOB NO.:	<b>Section C - Page 6</b>
	DATE: 02/28/08	

## MULTIPLE METER SOCKET LAYOUTS

It is the Marquette Board of Light & Power's policy that the following requirements be met for multiple meter socket installations and labeling. When using vertical stacked multiple meter panels, the top of the highest meter shall be installed no greater than seventy-two (72) inches from the floor or final grade for indoor or outdoor locations and shall be limited to a maximum four (4) meter stack. Multiple horizontal meter panels shall be installed at a height of sixty (60) inches from the floor indoors or final grade outdoors. These requirements are to be followed prior to installing meters and connecting electrical service. Service connection may be denied if the requirements are not followed. Any and all questions regarding this information may be directed to MBLP Meter Department Supervisor at (906) 228-0303.

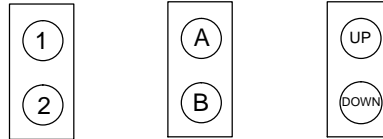
### TWO POSITION - HORIZONTAL

LOWEST NUMBER OR LETTER ALWAYS ON THE LEFT. (example 101, 102, etc.)



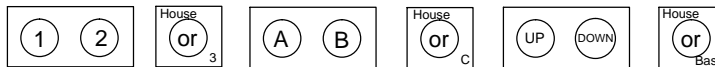
### TWO POSITION - VERTICAL

LOWEST NUMBER OR FIRST ALPHABET LETTER ALWAYS IN THE TOP SOCKET.



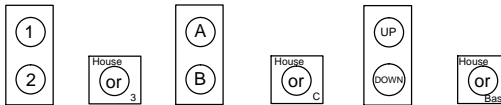
### TWO POSITION - HORIZONTAL & ONE SOCKET (HOUSE METER)

HOUSE METER SHOULD ALWAYS BE THE LAST SOCKET IN ORDER.

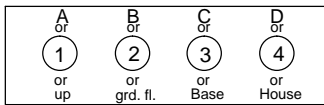


### TWO POSITION - VERTICAL & ONE SOCKET (HOUSE METER)

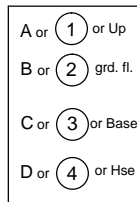
HOUSE METER SHOULD ALWAYS BE THE LAST SOCKET IN ORDER.



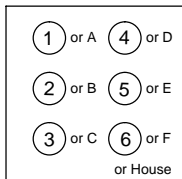
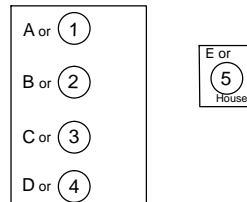
### FOUR POSITION HORIZONTAL



### FOUR POSITION - VERTICAL

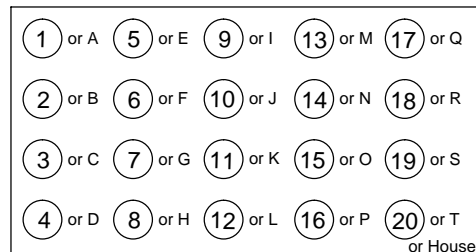


### FOUR POSITION & 1 SINGLE SOCKET



If adding one socket for House Meter it should be in this position.

### EXAMPLE: Multiple Sockets



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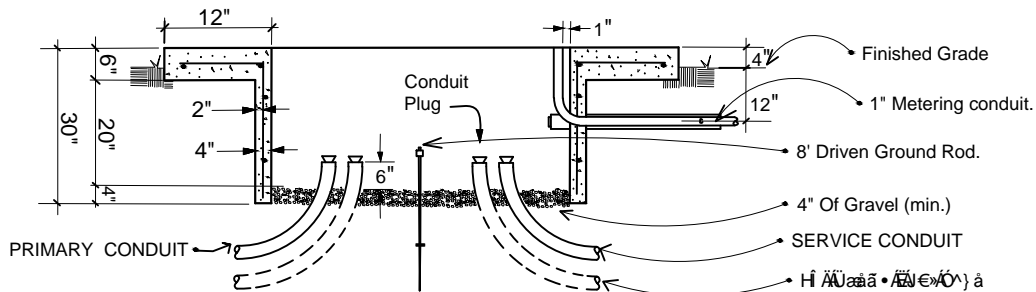
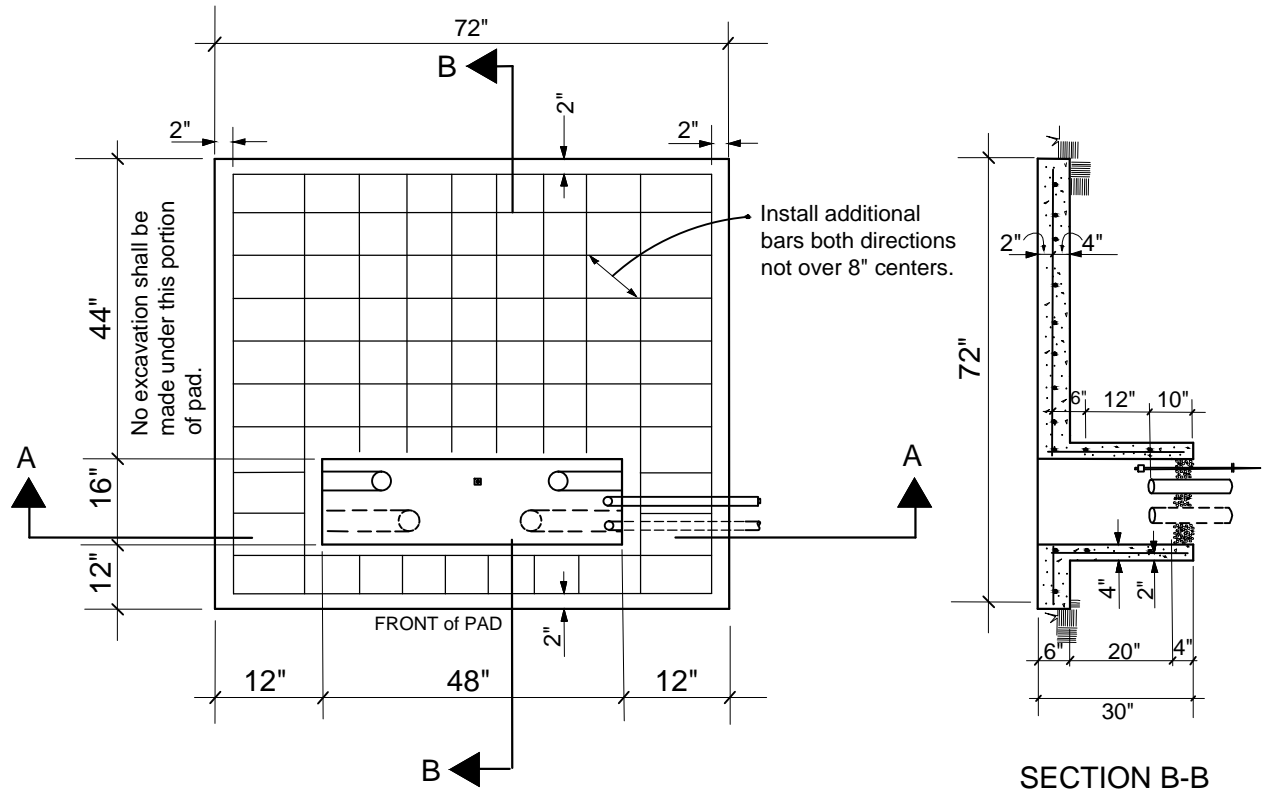
## TYPICAL MULTIPLE METER SOCKET LAYOUTS

Drawn By: JAV

JOB NO.:

DATE: 02/28/08

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SECTION A-A

NOTE: VERIFY PAD DIMENSIONS WITH ENGINEERING DEPARTMENT FOR TRANSFORMERS LARGER THAN 500 KVA (906-228-0323)

NOTES:

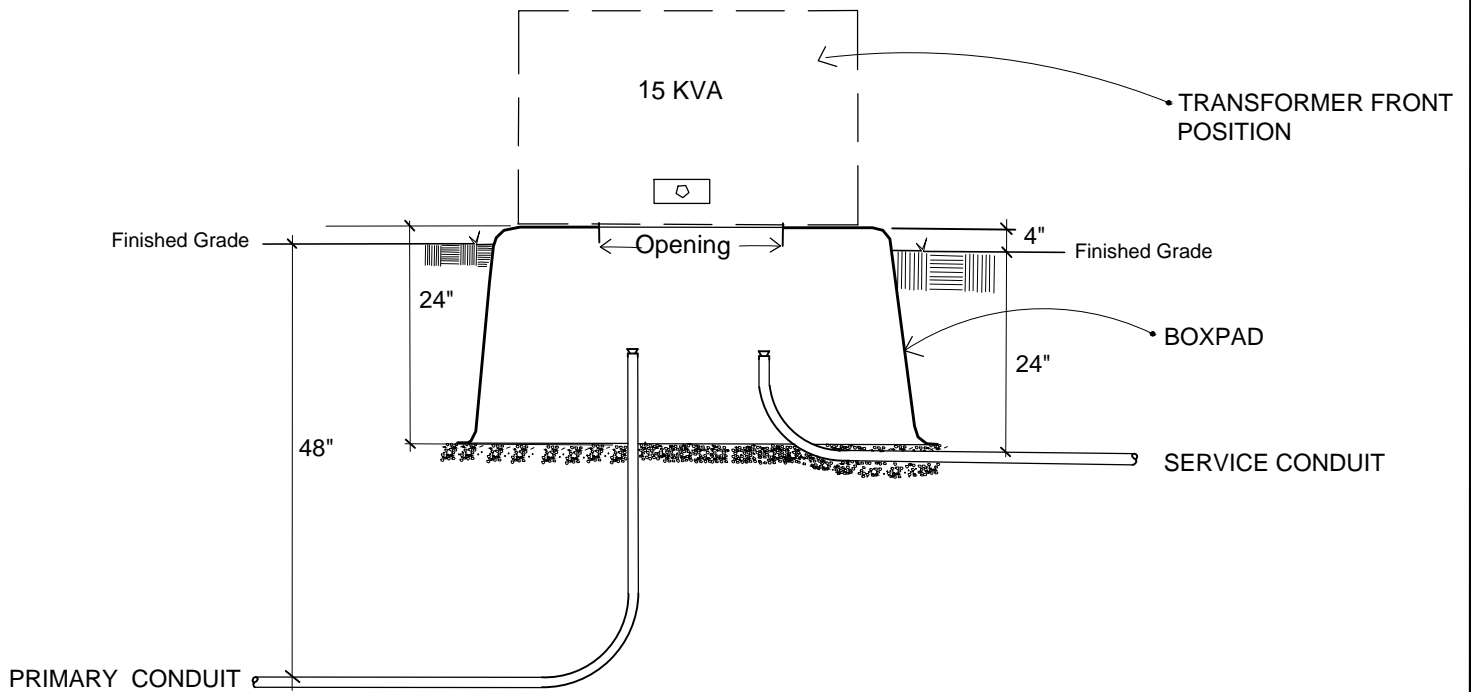
- 1 Concrete shall be 3000 lb psi, 3/4" aggregate with just enough water to make a workable mixture.
- 2 All reinforcing steel shall be No. 4 round deformed bars.
- 3 Install 2 - inch PVC conduit plugged at both ends for temporary service.
- 4 Contact BLP to inspect forms and conduit installations prior to pouring concrete.
- 5 If pad is not poured on undisturbed earth, piers or footings shall be provided by the customer.

# MARQUETTE BOARD OF LIGHT & POWER

## STANDARD 3 PHASE TRANSFORMER PAD

Engr: K Benstrom  
Prepared By: DLC

Date 10/22/09



TYPICAL SECTION VIEW

# MARQUETTE BOARD OF LIGHT & POWER

## TYPICAL 1 PHASE TRANSFORMER BOX PAD

Engr: J Stevens  
 Prepared By: JAV

Date 02/29/08