



## **Welcome to Bluebonnet Electric Cooperative**

Bluebonnet Electric Cooperative Inc. was incorporated in 1939 as the Lower Colorado River Electric Cooperative. The name was changed to Bluebonnet Electric Cooperative, Inc. in 1964 to enhance a separate identity from the Lower Colorado River Authority (LCRA).

Bluebonnet is one of the largest electric cooperatives in Texas, with a 3,800 square mile service territory, which includes all or part of 14 counties, serving over 80,000 meters. Five Member Service Centers are located throughout Bluebonnet's service territory to assist members with issues ranging from bill payment to service installation. A distribution cooperative, Bluebonnet purchases most of its power wholesale from LCRA. Bluebonnet operates and maintains approximately 11,000 miles of distribution lines. The organization owns 21 substations and purchases power at 21 additional substations owned by LCRA.

Bluebonnet provides this packet to all developers and their agents and it should be used as a guide in planning the installation of electrical equipment for receiving electrical power from Bluebonnet's distribution system.

The information presented is subject to change and will be revised periodically to reflect any changes which may develop. Please refer to our website at [www.bluebonnet.coop](http://www.bluebonnet.coop) for any additional information as well as an online source of this packet.

We look forward to working with you as your electrical provider.

Thank you,

Bluebonnet Project Coordination Staff

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# Development Information Request Form

SUBDIVISION or PROJECT NAME: \_\_\_\_\_

LOCATION OF PROJECT: \_\_\_\_\_

DEVELOPER'S NAME: \_\_\_\_\_

REPRESENTED BY: \_\_\_\_\_ PHONE: \_\_\_\_\_

E-mail: \_\_\_\_\_

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

ENGINEERING FIRM: \_\_\_\_\_

REPRESENTED BY: \_\_\_\_\_ PHONE: \_\_\_\_\_

E-mail: \_\_\_\_\_

TYPE OF PROJECT: (Check all that apply)	SECTION (Insert Section #)	NUMBER OF LOTS (In this section)	TOTAL LOTS (In all sections)
<input type="checkbox"/> RESIDENTIAL	_____	_____	_____
<input type="checkbox"/> APARTMENTS	_____	_____	_____
<input type="checkbox"/> MOBILE HOME/RV PARK	_____	_____	_____
<input type="checkbox"/> COMMERCIAL	_____	_____	_____
<input type="checkbox"/> OTHER _____	_____	_____	_____

Taxing jurisdiction(s) and entities in which development falls (ie. City Limits, County, etc.) as well as physical (911) Address of Development \_\_\_\_\_

Estimated number of units to be constructed and occupied within the first 12 months. \_\_\_\_\_

Anticipated total project completion date. \_\_\_\_\_

Homebuilder & Contact Person \_\_\_\_\_ Phone # (\_\_\_\_) \_\_\_\_\_

**OTHER UTILITY PROVIDERS (Company Name)**

- WATER \_\_\_\_\_
- GAS (YES or NO) \_\_\_\_\_
- CABLE \_\_\_\_\_
- TELEPHONE \_\_\_\_\_

**LOAD EXPECTATIONS: (Check All That Apply)**

- LIFT STATION/WASTE WATER PLANT
- WATER WELL
- HOME SIZES FROM \_\_\_\_\_ TO \_\_\_\_\_ SQ FT.
- AMENITY CENTER, PARKS, CLUB HOUSE
- COMMERCIAL SITES WITHIN DEVELOPMENT
- STREETLIGHTING – Responsible party for monthly lighting charges \_\_\_\_\_
- IRRIGATION SYSTEMS
- OTHER: \_\_\_\_\_

Upon completion of this form, please return via fax to (979)542-4150, attn: Project Coordination.

By signing this form, you are acknowledging receipt and understanding of this packet and you agree to abide and comply with all requirements and policies within.

\_\_\_\_\_  
*Developer / Agent / Owner*

\_\_\_\_\_  
*Date*

## Developer's Checklist

### **Responsibility of Developer:**

- Developer must fill out a Development Information Request Form and submit to Bluebonnet along with design fee if required.
- Developer is responsible for confirming all Bluebonnet easement requirements with Bluebonnet prior to platting.
- Developer must have an engineering firm submit preliminary plan of development in digital (AutoCAD) format to Bluebonnet Engineering Department. These plans must include streets, wet utilities, and grading plans as well as any other utilities planned for said development.
- A design/re-design fee could be required either prior to or following the design process as a result of any changes to design out of original scope of project. This decision will be made at the discretion of Bluebonnet on a case by case basis. These fees are non-refundable and are subject to revision at Bluebonnet's discretion.
- Prior to Bluebonnet construction, two (2) hard copies of the approved plat must be submitted.
- Developer must provide and install all underground conduits at road crossings in the designated location per Bluebonnet Crossing Plans and if applicable, all electrical conduits in designated locations per Bluebonnet Construction Plans (see Bluebonnet Specifications in this packet).
- Developer is responsible for following Bluebonnet inspection policies and procedures prior to and during conduit installation if using his own contractor (see Page 7).
- Property pins must be set and clearly visible at all lot corners, at developer's expense, prior to Bluebonnet commencing construction.
- Developer is responsible for submitting contribution-in-aid of construction to cover Bluebonnet's construction costs prior to Bluebonnet commencing construction. Bluebonnet's construction cannot commence until 20 working days after receipt of this payment.
- Developer is responsible for all right-of-way clearing and grubbing to Bluebonnet specifications. Bluebonnet will clear the right-of-way for proposed overhead facilities for an additional charge to be quoted should developer choose this option. See attached Bluebonnet Specifications.
- Developer is responsible for ensuring conduit contractor and/or subcontractor adherence to all Bluebonnet Construction Specifications at all times.
- Developer to provide ALL materials necessary for the conduit system he installs for his Bluebonnet Underground System. Bluebonnet will own these materials after proper installation is certified by a Bluebonnet Inspector.

## **Developer's Fees and Information**

### **Development Fees**

1. A design/re-design fee of could be required either prior to or following the design process should the project change dramatically from its original scope. This decision will be made at the discretion of Bluebonnet on a case by case basis. These fees are non-refundable and are subject to revision at Bluebonnet's discretion.
2. Every request for design and every alteration to all scopes for design services may be considered as an individual request and, therefore are subject to additional fees to be determined by Bluebonnet.
3. When the developer or prospective developer enters into a line extension agreement with Bluebonnet for service, monies received for engineering design estimates of service will be applied to the cost of construction. Bluebonnet's Line Extension Policy can be found in the Bluebonnet Member Welcome Kit or on the "Residential Development" link on our website located at [www.bluebonnet.coop](http://www.bluebonnet.coop) .
4. If the developer or prospective developer does not notify Bluebonnet within a 180 day period of initial design with the intent to proceed, any design fees paid to date will be forfeited and the prospective project will be treated as new.
5. A maintenance fee of \$1 per linear foot of trench will be required at the time of contribution by the developer to cover the cost of any necessary repairs in the first year following the completion of Bluebonnet facilities installation.

### **Street Lighting**

1. Bluebonnet agrees to install street lighting at locations within Site designated by the developer and mutually agreed upon by Bluebonnet and as needed to comply with City or County ordinances and regulations.
2. Bluebonnet does not offer any custom lighting solutions at this time. Bluebonnet will install our standard streetlight (see Bluebonnet Specifications in this packet) unless the developer wishes to install his own custom lighting. In this case, Bluebonnet will determine and provide a metering point(s) and the developer will be able to power his custom lighting facilities from this point(s). Developer will be responsible for all installation, operation, and maintenance of custom lighting facilities.
3. Bluebonnet will own, operate, maintain and repair the standard lighting facilities. The monthly charge for street lighting service will be according to the applicable rate schedule for lighting service in the Bluebonnet Electric Cooperative Tariff. Payment of the monthly charge for street lighting service will be the responsibility of the developer or an entity designated by the developer.

## **Easements / Right of Way**

1. Bluebonnet shall be granted, at no cost and in writing on recorded plat, all rights-of-way and easements necessary to serve member, overhead or underground for the erection, maintenance, repair, replacement, removal, or use of all wires, poles, machinery, fixtures, or equipment needed to supply and deliver electric service to the member.
2. Bluebonnet does not allow any member equipment or material to be attached to its property, except where said equipment and/or materials are required to provide electrical service and said equipment and/or material has been authorized by Bluebonnet.
3. Developers and their respective Homebuilders must give Bluebonnet the rights, privileges and easements necessary to construct, operate, repair, replace and perpetually maintain electric facilities located on the member's owned or leased property, and in or on all streets, roads or highways abutting their property. All service lines providing members with electricity and all switches, meters and other appliances and equipment constructed or installed on the property belong solely to Bluebonnet, and Bluebonnet can access the property to repair or service them and, upon discontinuance of service, remove them.
4. Bluebonnet shall, at any time deemed necessary, access any equipment owned and/or operated by Bluebonnet. Any obstructions in a platted public utility easement or exclusive Bluebonnet easement such as landscaping, trees, fences, etc. will be removed if discovered by necessity or inspection. Developers and their respective Homebuilders will adhere to equipment clearance requirements noted in attached specifications AND on equipment labels. If the existing items mentioned above are removed, damaged, etc. by Bluebonnet, Bluebonnet expresses no guarantee, written or implied, that these items will be repaired or replaced. Requests for replacement or repair of landscaping, grass, trees, soil, etc. will be addressed and ruled on by Bluebonnet on a case by case basis. Bluebonnet will make every attempt to disturb existing items as little as possible granted their locations do not violate NESC, NEC, or Bluebonnet clearance requirements.

### **Front Lot Facilities / Back Lot Facilities**

All overhead or underground distribution lines in a subdivision will be built on the front lot lines along public streets. Lines can be constructed along rear lot lines if the following conditions exist.

1. There is an accessible roadway from a public road (dedicated to the public or Bluebonnet) along the route of the proposed distribution line. The dedication will include language that prohibits obstructions being placed in the roadway that would prevent ready access, including but not limited to, fences, storage buildings, etc. and are required to be recorded in the deed restrictions for the applicable area(s).
2. The accessible, dedicated roadway will be an all weather road, thirty (30) feet in width and constructed of asphalt, concrete, or crushed rock.
3. An all weather road is defined with adequate culverts, bridges, and base material to support vehicles weighing up to 50,000 pounds during all weather conditions.

## **Inspection Guidelines and Procedures**

1. Developer to provide all pertinent conduit contractor information to Bluebonnet Project Coordinator prior to conduit installation. Bluebonnet Project Coordinator will provide all pertinent Bluebonnet Inspector information to developer.
2. Developer will schedule and conduct a pre-construction meeting between Bluebonnet Inspector and contractor, who will install conduit at a time mutually agreeable to all parties involved.
3. Contractor foreman will review Bluebonnet construction specifications and acknowledge review and receipt prior to trenching and conduit installation.
4. Bluebonnet will respond within 48 hours of contractor notification prior to intended trenching times so inspection dates and times can be coordinated.
5. Trenches will remain open until inspected and approved by Bluebonnet inspector. Upon inspection, contractor will be advised as to what may or may not be backfilled.
6. Bluebonnet retains the right to terminate any conduit installation if inspection reveals non-compliance with Bluebonnet inspection policies, procedures, or specifications until said issues are resolved and approved through re-inspection.
7. Bluebonnet Inspector will inspect all road crossings as they are being installed by Road Contractor.
8. Equipment pad installation and conduit stubs must meet clearance requirements on all sides as outlined in Bluebonnet Specifications.
9. Developer must ensure that his conduit contractor cooperates with Bluebonnet's Inspector and corrects any problems noted. Otherwise, the Bluebonnet certification of the conduit system will be withheld and Bluebonnet's installation of electrical facilities cannot commence. Developers who fail to facilitate prompt resolution to conduit installation problems noted by Bluebonnet's Inspector will not be allowed to install conduit for Bluebonnet on existing or future projects.

### **BLUEBONNET INSPECTORS**

Brenham Area – Steven Teinert 979-540-9302  
Giddings Area - Charles Falke 979-540-7507  
Bastrop Area - Donnie Tobola 512-360-7249  
Lockhart Area – Matthew Sturn 512-845-4816

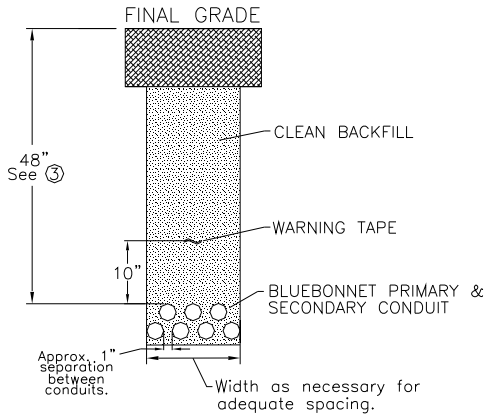
## **Bluebonnet Specifications**

Ditch and Conduit Placement  
Road Crossing  
Pad Mount Switchgear Easement Requirements  
Dimensions and Wiring Single-Phase Transformer  
Dimensions and Wiring Single-Phase Sectionalizer  
Three-Phase Transformer Pad 45-750 kVA  
Three-Phase Transformer Pad 1000-2500 kVA  
Dimensions for Three-Phase Sectionalizer 200A  
Dimensions for Three-Phase Sectionalizer 600A  
Standard Residential Streetlight  
Right-of-Way Clearing Guide  
Switchgear Dimensions and Installation  
Meter Loop Specifications (Multiple)

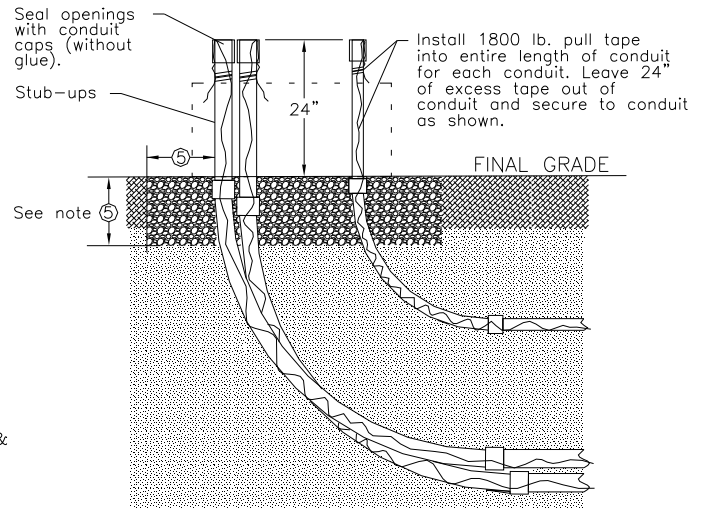
# DITCH AND CONDUIT PLACEMENT

## NON-ROAD CROSSING

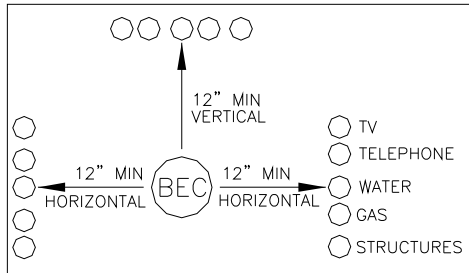
DITCH ASSIGNMENT  
FRONT VIEW



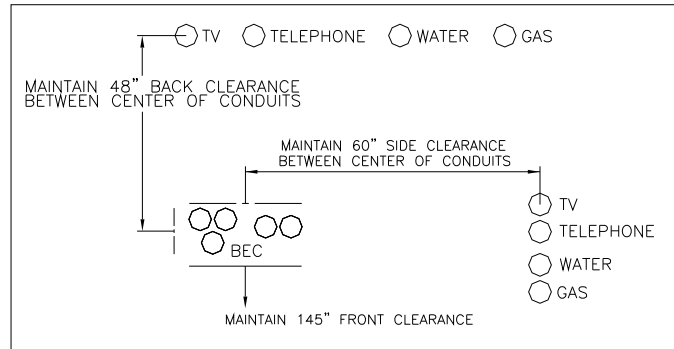
CONDUIT STUB-UP  
SIDE VIEW



CONDUIT CLEARANCES  
FRONT VIEW



CONDUIT STUB-UP CLEARANCES  
TOP VIEW



**Notes:**

1. Conduit shall be grey schedule 40 pvc.  
Primary & Secondary = 3"      Lighting = 2"
2. Conduit Elbow: Primary & Secondary = 90° , 48" Sweep  
Street Light = 90° , 24" Sweep
3. Normal ditch cover depth is 48". Adjustments may be made to 48" depth if necessary upon Bluebonnet approval.
4. Separation from other utilities shall be 12" minimum or sufficient to prevent any foreseen damage of either facility to the other.
5. Gravel for pads shall be 3/8" washed pea gravel. Depth and width shall be to equipment specification.

Bluebonnet Electric Cooperative

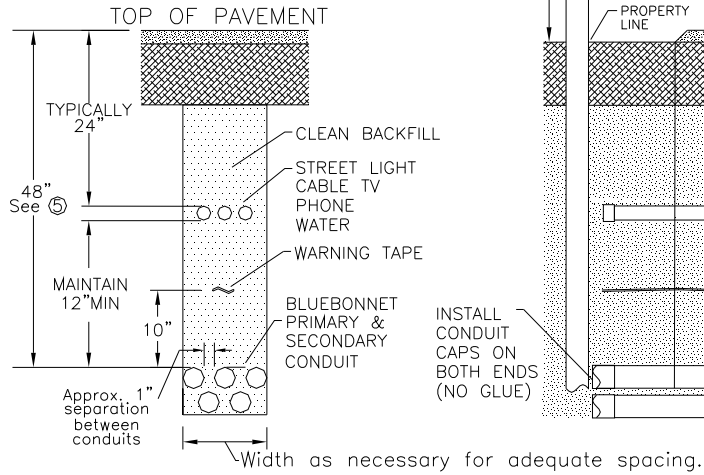
Date Approved  
04Oct07

Underground Distribution

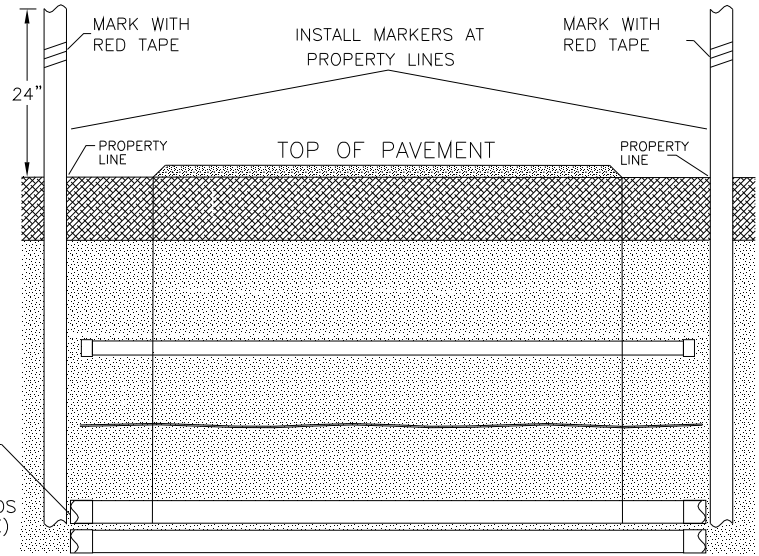
J-3

# DITCH AND CONDUIT PLACEMENT ROAD CROSSING

CONDUIT FRONT VIEW



CONDUIT SIDE VIEW

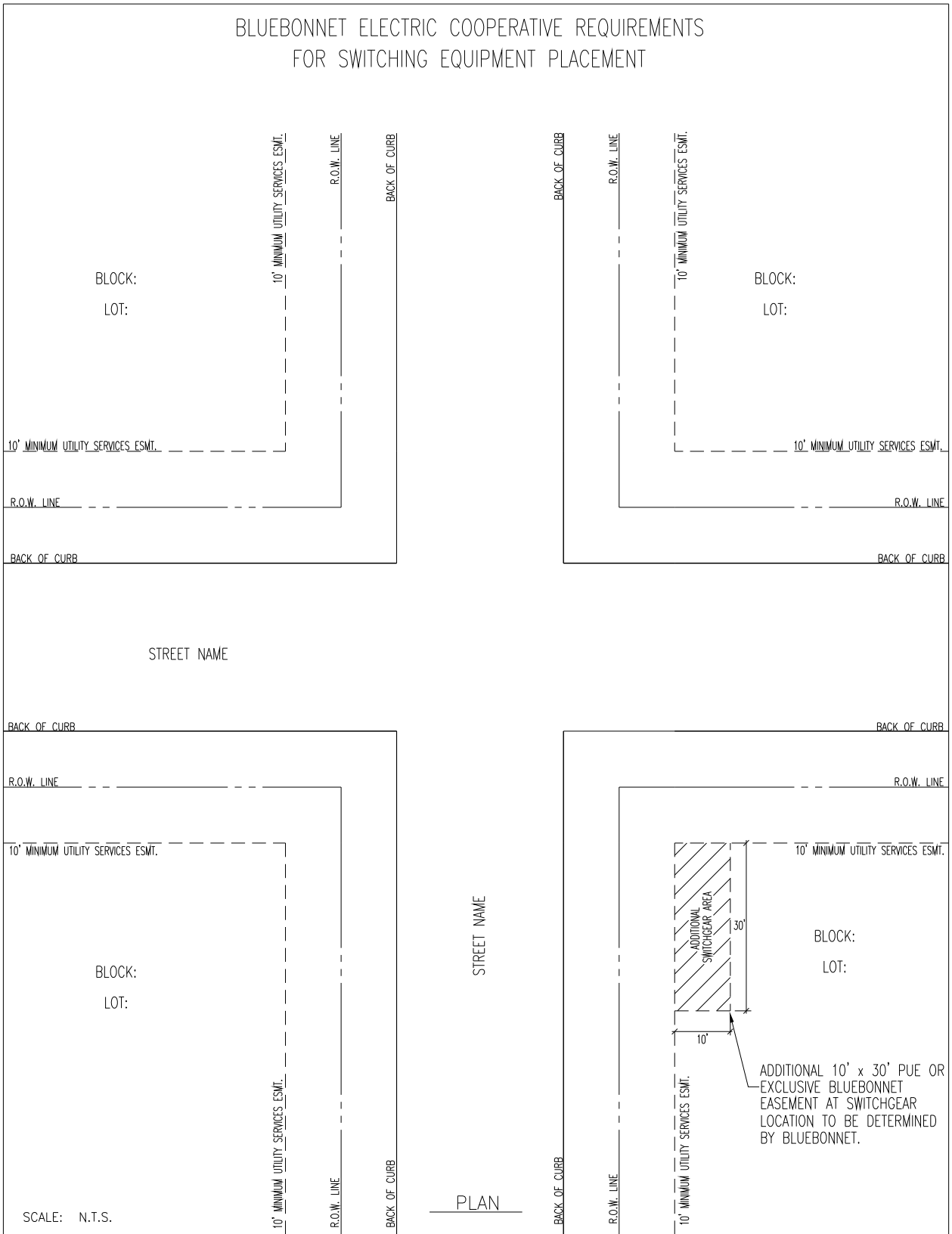


Notes:

1. State and local codes may require different standards, in which case the most stringent code shall take precedence.
2. Conduit shall be minimum grey schedule 40 pvc.  
Primary & Secondary = 3"    Lighting = 2"
3. Conduit Elbow: Primary & Secondary = 90°, 48" Sweep    Lighting = 90°, 24" Sweep
4. Length of conduits shall be from property line to property line.
5. Normal cover depth is 48". Adjustments may be made to 48" depth if necessary upon Bluebonnet approval.

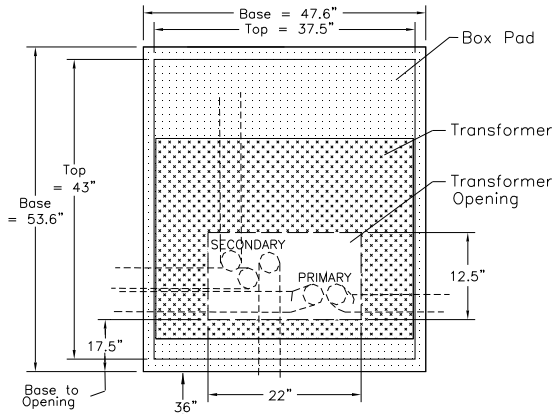
Bluebonnet Electric Cooperative	Date Approved 04Oct07	Underground Distribution	J-4
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# BLUEBONNET ELECTRIC COOPERATIVE REQUIREMENTS FOR SWITCHING EQUIPMENT PLACEMENT



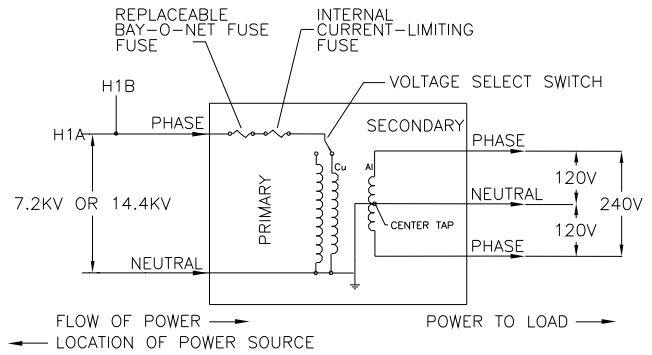
# Dimensions and Wiring – 1Ph Padmount Transformer

TOP VIEW



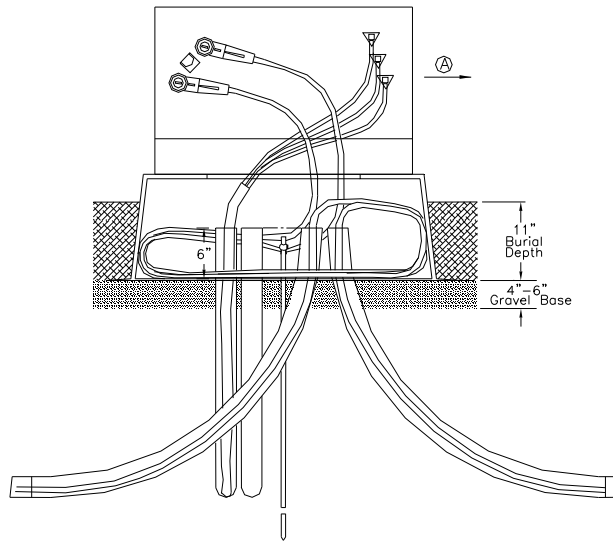
MEMBER CONDUIT SHALL STOP 36" FROM ENERGIZED EQUIPMENT.  
MEMBER SHALL PROVIDE 2" OR 3" SCH 40 PVC CONDUIT ELBOW WITH A 24" SWEEP AND 10' OF ADDITIONAL CABLE RUN.  
MAX. ONE CONDUIT PER MEMBER UNLESS WRITTEN APPROVAL BY BLUEBONNET PERSONNEL.

WIRING DIAGRAM

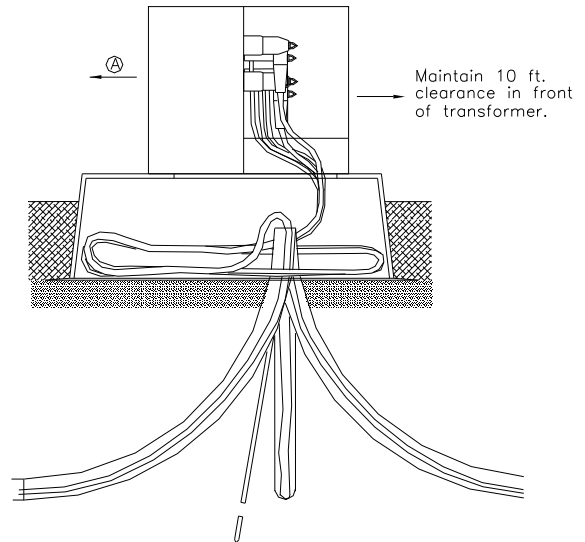


Ⓐ Clearance between walls and transformer:  
Non-Combustible – 3 Ft.  
Combustible: Up to 75kVA – 10 Ft.  
Greater than 75 kVA – 20 Ft.

FRONT VIEW

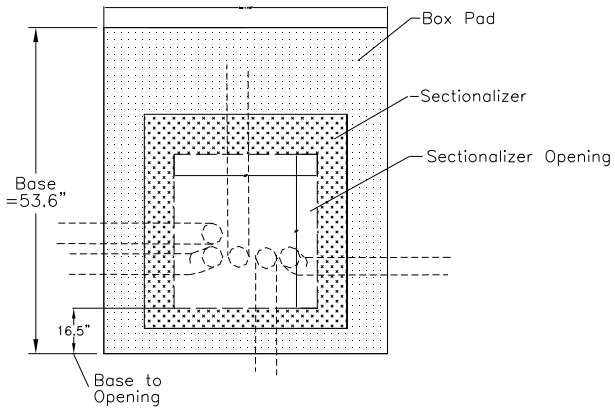


SIDE VIEW

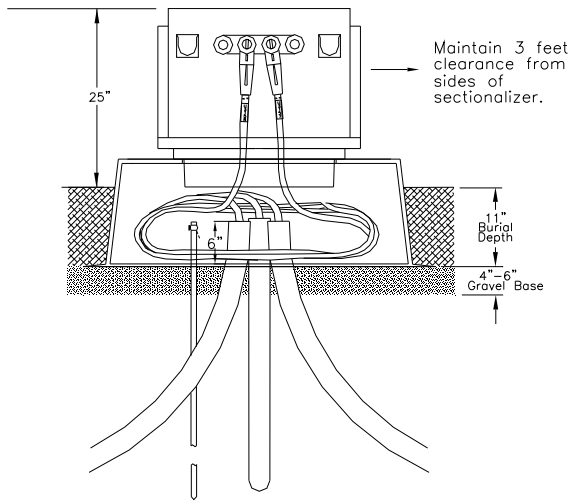


# Dimensions and Wiring – 1Ph Padmount Sectionalizer

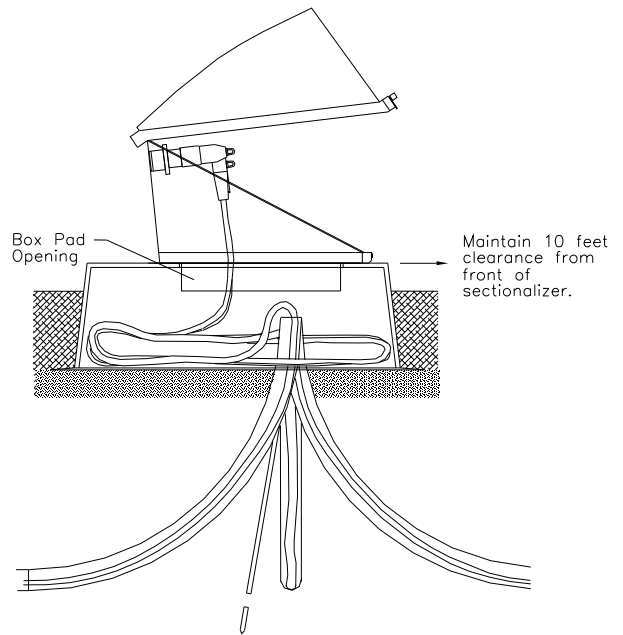
TOP VIEW



FRONT VIEW



SIDE VIEW



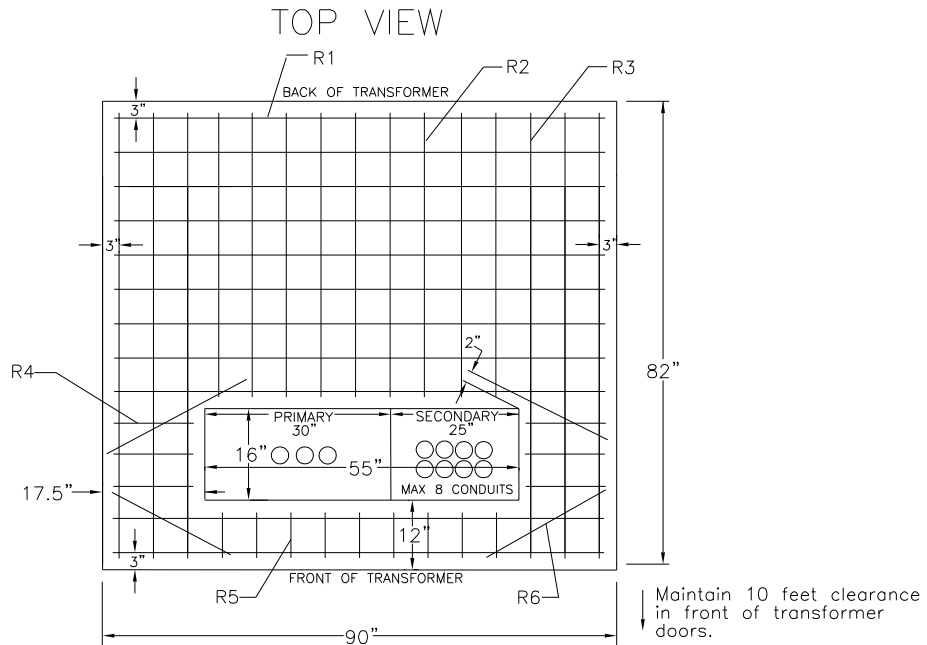
Bluebonnet Electric Cooperative

Date Approved  
04Oct07

Underground Distribution

C-2

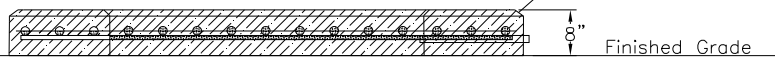
# Three Phase Transformer Pad 45 – 750 KVA (UM3-A)



Maintain clearance from transformer sides:

- Other Transformers – 5 feet
- Non-combustible walls – 5 feet
- Combustible walls:
  - 0 to 75kVA – 10 Ft.
  - >75kVA – 20 Ft.

## FRONT VIEW



REINFORCING BARS; 1/2"					
R1	R2	R3	R4	R5	R6
11 X 86"	9 X 50"	6 X 78"	6 X 14"	9 X 8"	4 X 25"

SEE NOTE #3

### NOTES

1. Tamp ground under pad before setting to prevent uneven settling.
2. Concrete: 3000 pounds min. per square inch; 4% to 6% entrained air, 3/4" max. size aggregate.
3. Reinforcing steel: ATSM-A615 Grade 60; Evenly space approximately 6" o.c. each way and securely tied together.
4. Minimum 2 inch concrete cover over reinforcing steel.
5. Wood float level finish leaving no depressions.
6. 3/4" chamfer all edges.
7. Primary and secondary conduit shall be installed and sealed before pouring pad.
8. If future expansion to a transformer larger than 750 KVA is probable, Bluebonnet may request the construction of the pad on page B-6.
9. Maximum of 8 conduits, 4" schedule 40 PVC pipes are allowed in the secondary compartment.

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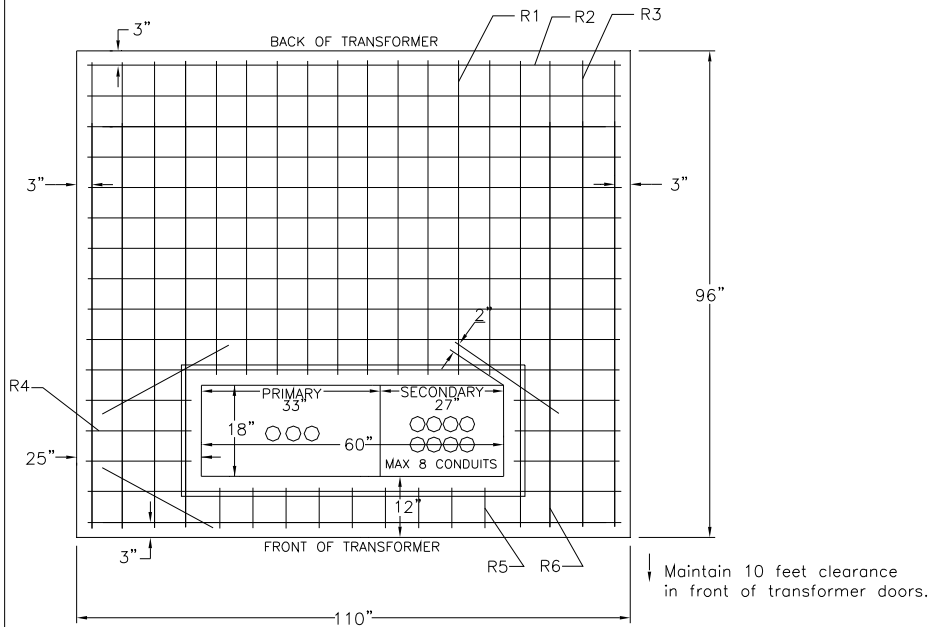
Date Approved  
13Dec10

Underground Distribution

B-5

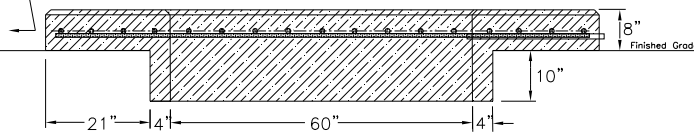
# Three Phase Transformer Pad 1000 – 2500 KVA (UM3-B)

## TOP VIEW

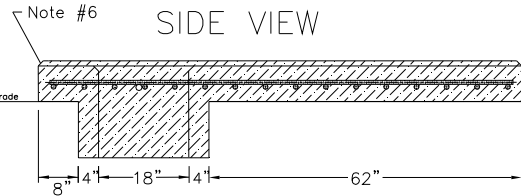


Maintain clearance from transformer sides:  
 Other Transformers – 5 feet  
 Non-combustible walls – 5 feet  
 Combustible walls:  
 0 to 75kVA – 10 Ft.  
 >75kVA – 20 Ft.

## FRONT VIEW



## SIDE VIEW



REINFORCING BARS; 1/2"					
R1	R2	R3	R4	R5	R6
10 X	13 X	8 X	6 X	9 X	4 X
62"	106"	92"	21"	8"	25"

SEE NOTE #3

### NOTES:

1. Tamp ground under pad before setting to prevent uneven settling.
2. Concrete testing, 3000 pounds min. per square inch; 4% to 6% entrained air, 3/4" max size aggregate.
3. Reinforcing steel; ATSM – A615 grade 60, space evenly approximately 6" o.c. each way and securely tied together.
4. Minimum 2 inch concrete cover over reinforcing steel.
5. Wood float level finish, leaving no depressions.
6. 3/4" chamfer all edges.
7. Primary and secondary conduit shall be installed and sealed before pouring pad.

Bluebonnet Electric Cooperative

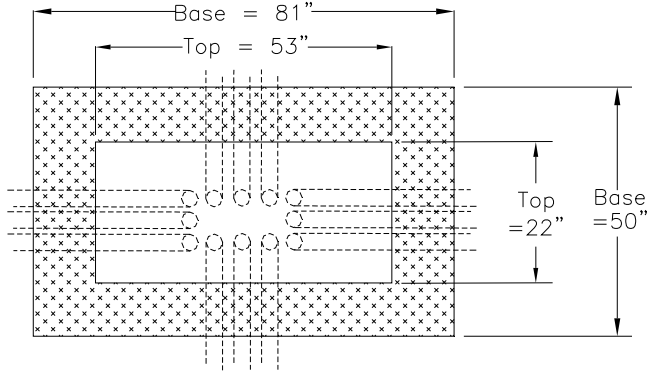
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04Oct07

Underground Distribution

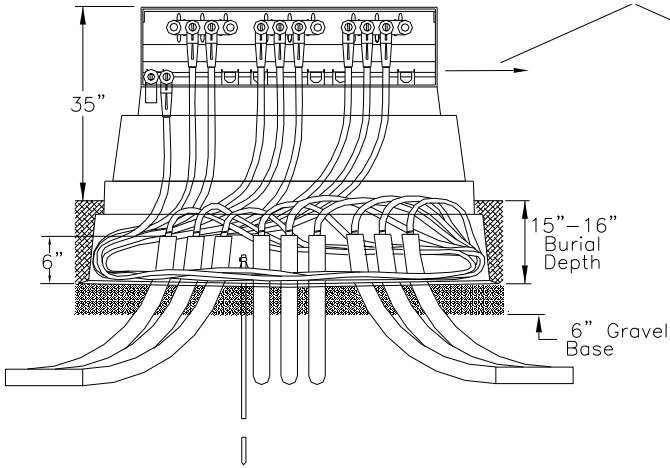
B-6

Dimensions – 3Ph 200A Sectionalizer

TOP VIEW

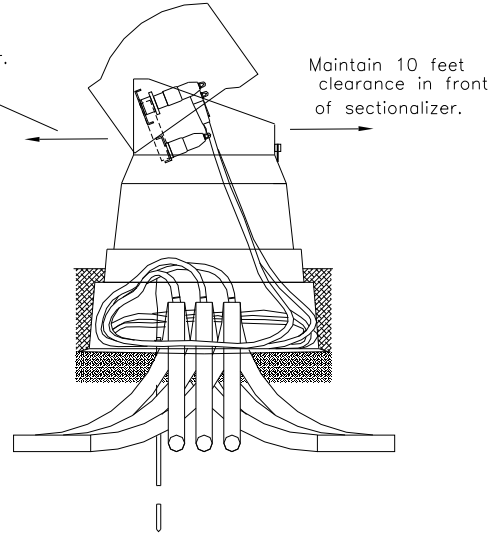


FRONT VIEW



Maintain 3 feet clearance from sides and back of sectionalizer.

SIDE VIEW



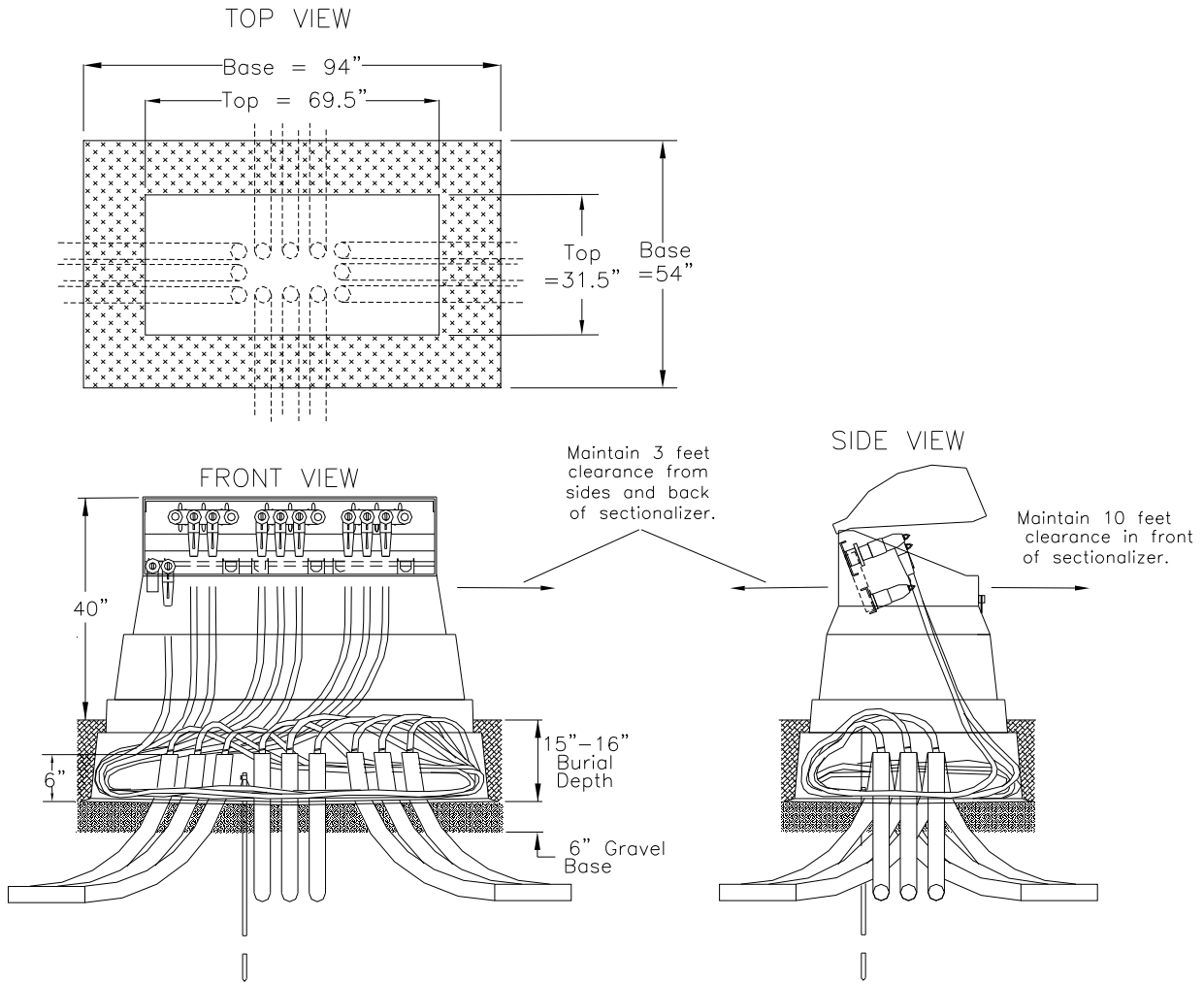
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04Oct07

Underground Distribution

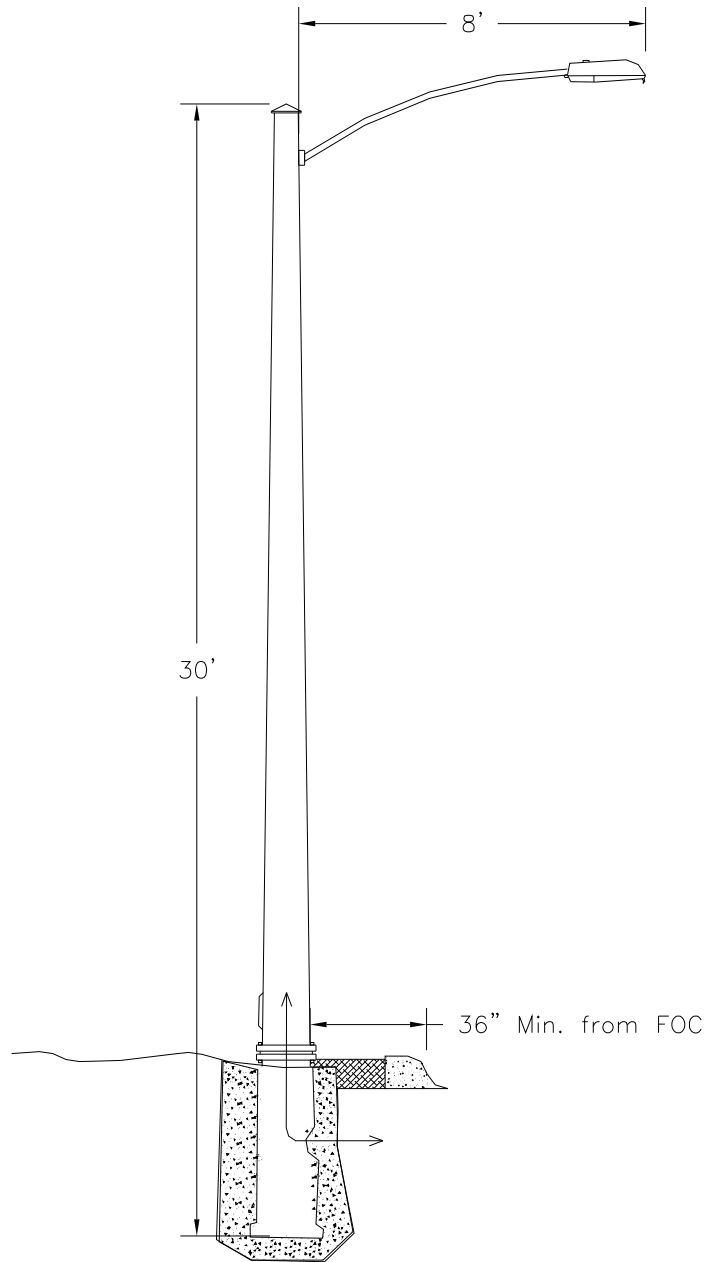
D-2A

Dimensions – 3Ph 600A Sectionalizer



Bluebonnet Electric Cooperative	Date Approved 04Oct07	Underground Distribution	D-2B
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STANDARD RESIDENTIAL STREETLIGHT  
MAST, ARM, AND HEAD



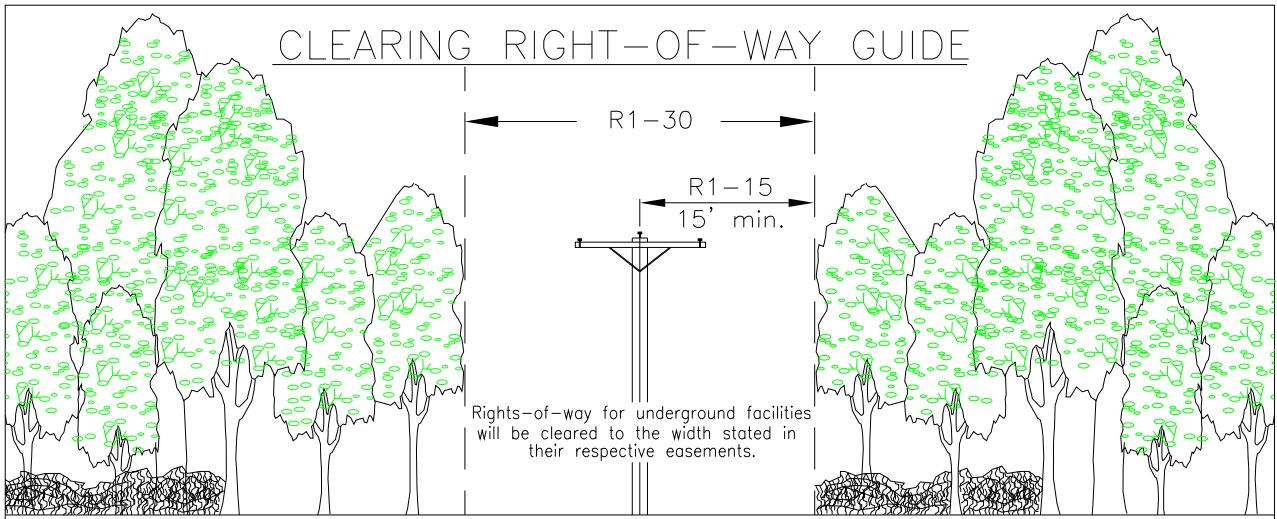
Notes:

1. Cobrahead fixture, H.P.S., photocell controlled.
2. In the absence of a raised curb, Bluebonnet will determine the location of streetlight poles based on applicable clear zone criteria.

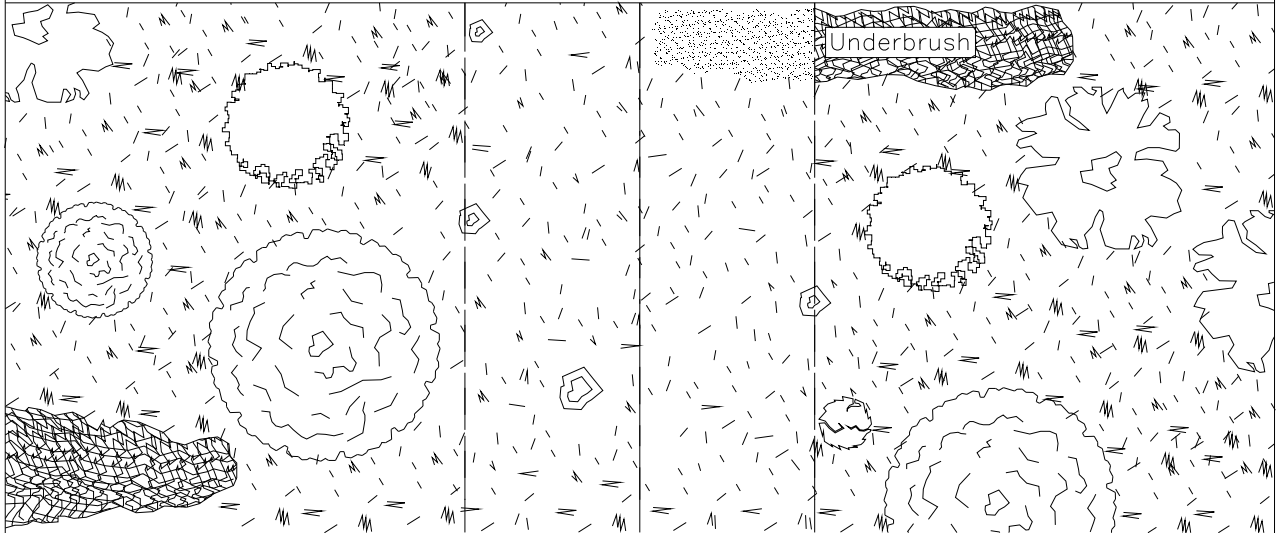
SL1-8S
SL250-8S
SL400-8S

Bluebonnet Electric Cooperative

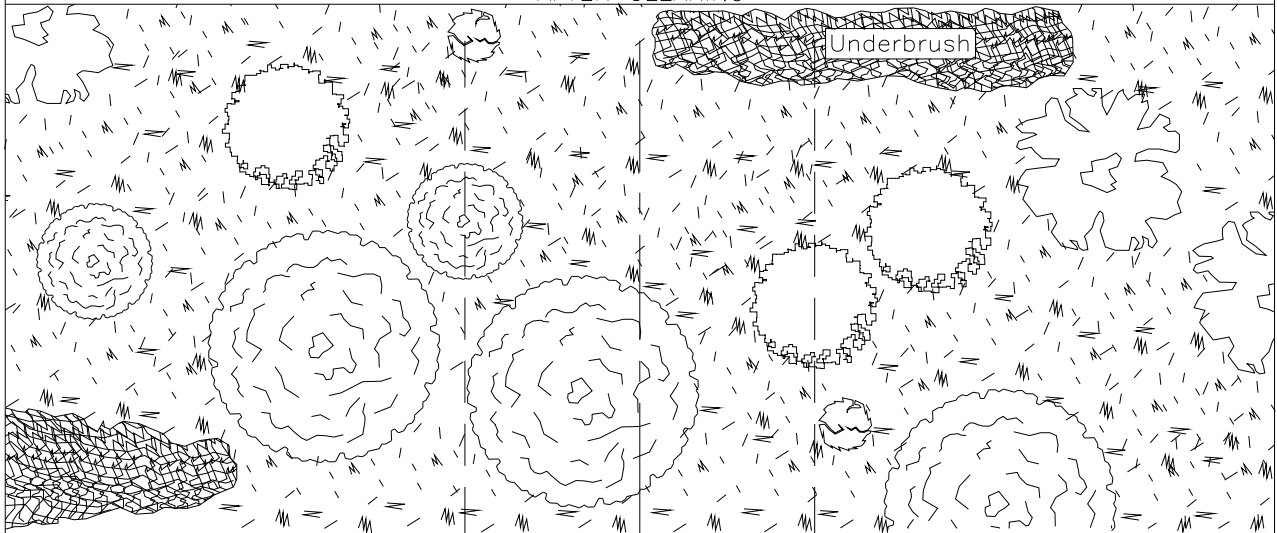
# CLEARING RIGHT-OF-WAY GUIDE



## ELEVATION



## AFTER CLEARING

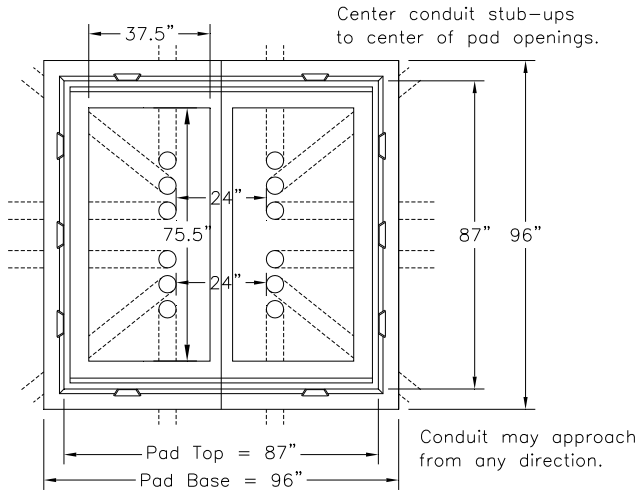


## BEFORE CLEARING

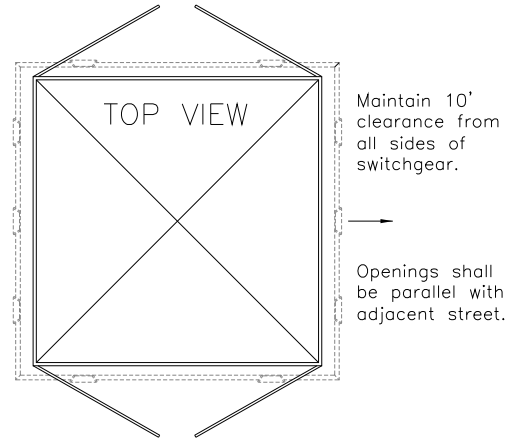
Bluebonnet Electric Cooperative

# DIMENSIONS – SWITCHGEAR

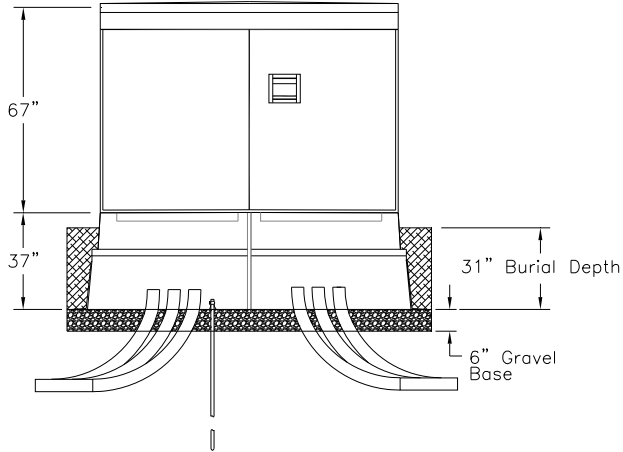
TOP VIEW



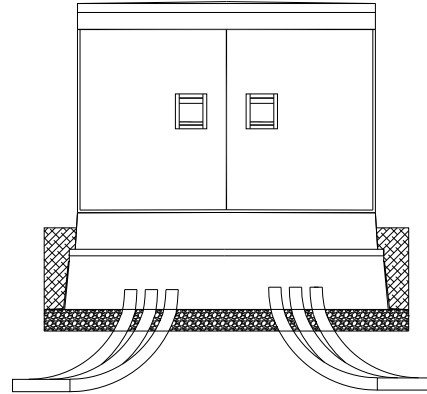
CLEARANCES



FRONT VIEW



SIDE VIEW



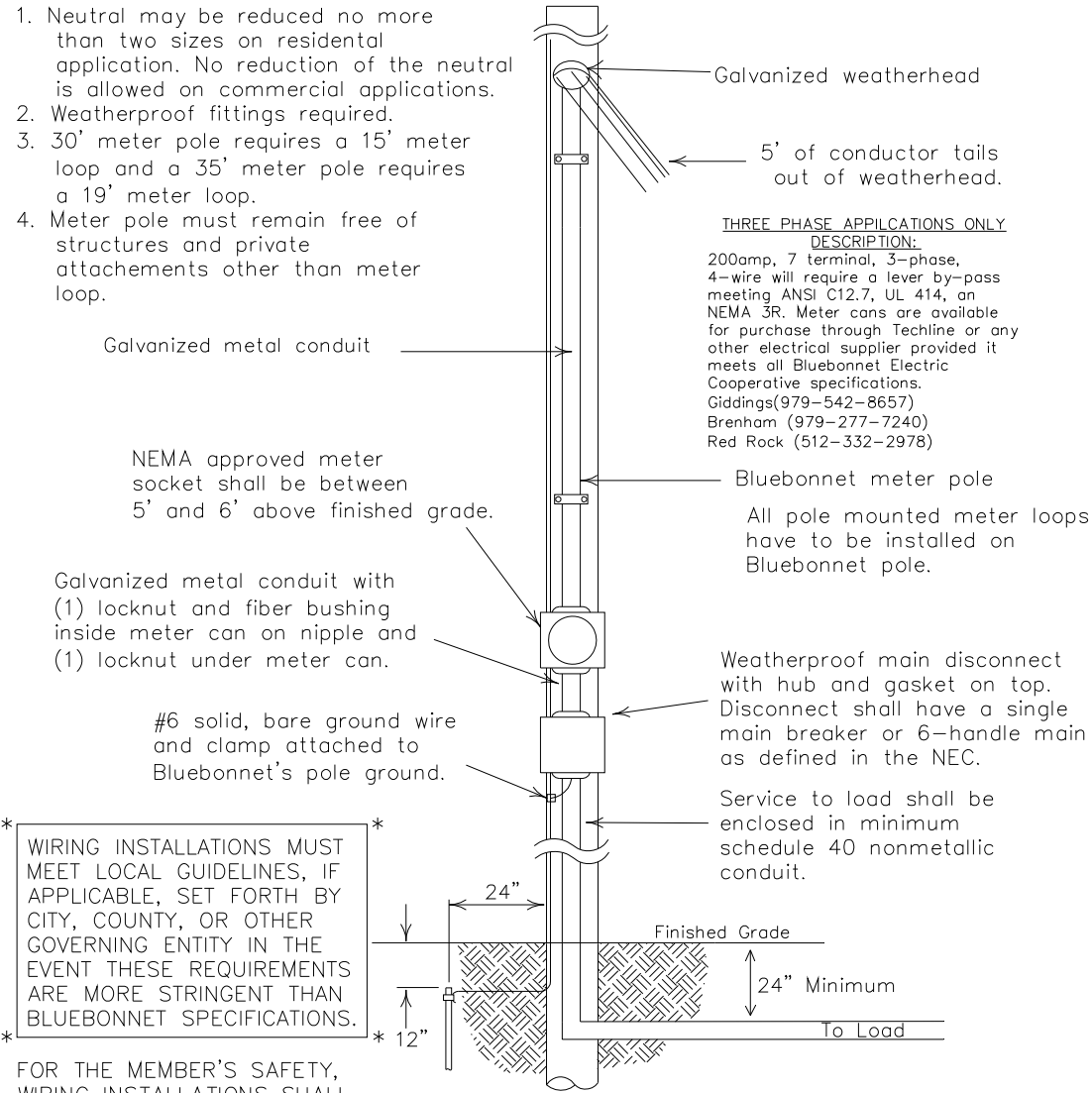
Bluebonnet Electric Cooperative

Date Approved  
04Oct07

Underground Distribution

Notes:

1. Neutral may be reduced no more than two sizes on residential application. No reduction of the neutral is allowed on commercial applications.
2. Weatherproof fittings required.
3. 30' meter pole requires a 15' meter loop and a 35' meter pole requires a 19' meter loop.
4. Meter pole must remain free of structures and private attachments other than meter loop.



THREE PHASE APPLICATIONS ONLY  
DESCRIPTION:  
 200amp, 7 terminal, 3-phase, 4-wire will require a lever by-pass meeting ANSI C12.7, UL 414, an NEMA 3R. Meter cans are available for purchase through Techline or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications. Giddings(979-542-8657) Brenham (979-277-7240) Red Rock (512-332-2978)

\* WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. \*

FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.

Latest update can be found at [www.bluebonnetelectric.coop/setup/meter.shtml](http://www.bluebonnetelectric.coop/setup/meter.shtml)

CURRENT CARRYING CAPACITIES AND CONDUIT SIZE REQUIREMENTS OF STANDARD WIRE SIZES  
 (RH, RHH, RHW, THW, AND XHHW)

<u>COPPER CONDUCTOR</u>			<u>ALUMINUM CONDUCTOR</u>		
Wire Size	Breaker Size	Conduit Size	Wire Size	Breaker Size	Conduit Size
#6	60 Amp	1 1/4" Conduit	#4	60 Amp	1 1/4" Conduit
#4	100 Amp	1 1/4" Conduit	#2	100 Amp	1 1/4" Conduit
#2	125 Amp	1 1/2" Conduit	#1/0	125 Amp	1 1/2" Conduit
#1	150 Amp	2" Conduit	#2/0	150 Amp	2" Conduit
#2/0	200 Amp	2" Conduit	#4/0	200 Amp	2" Conduit

METER LOOP ASSEMBLY  
 1Ø OR 3Ø 60-200 AMP METER LOOP ON BLUEBONNET METER POLE

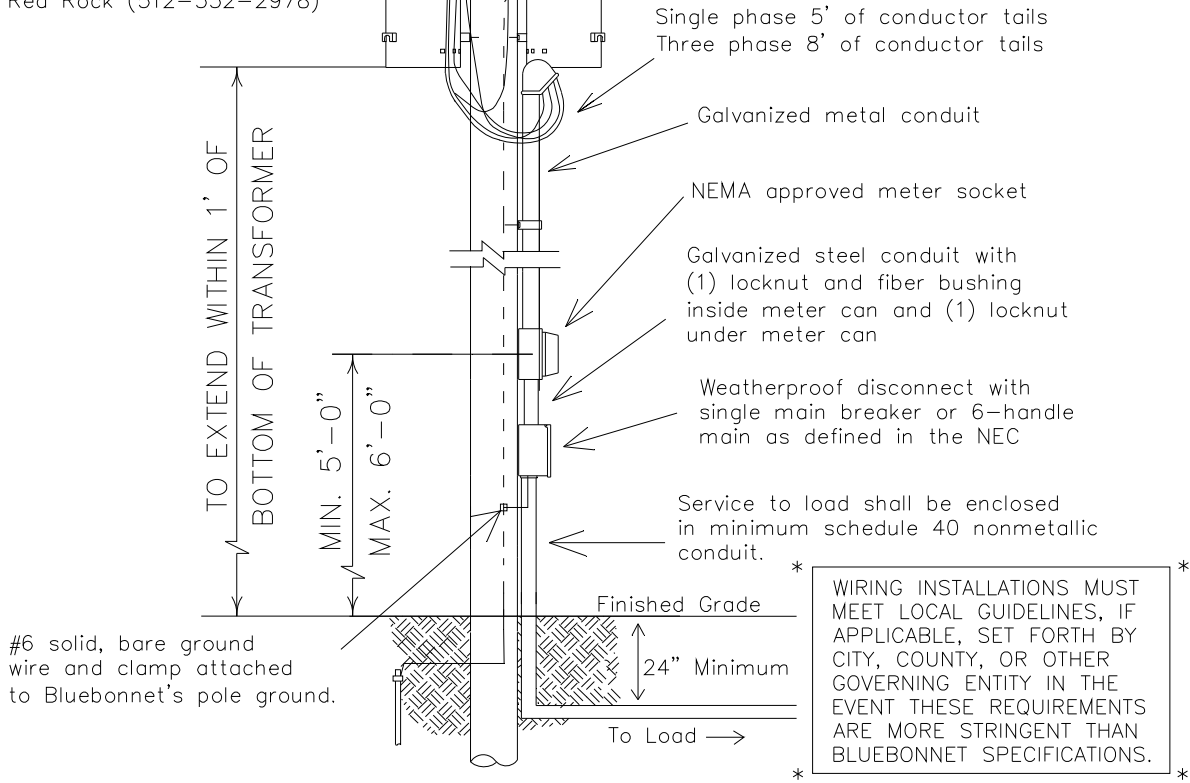
Bluebonnet Electric Cooperative, Inc.  
 P.O. Box 729  
 Bastrop, Texas 78602

DATE	REVISIONS	Drawn By :	Checked By :	Approved By :
2-29-08	Reduced Neutral Size (See Note #1)	BS	SE	TE
11-20-09	Wiring installations local guidelines	Scale :	Date:	
6-08-10	Three phase application description	NONE	6-08-10	MS-101

THREE PHASE APPLICATIONS ONLY  
DESCRIPTION:  
 200amp, 7 terminal, 3-phase, 4-wire will require a lever by-pass meeting ANSI C12.7, UL 414, and NEMA 3R. Meter cans are available for purchase through Techline or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications. Giddings(979-542-8657) Brenham (979-277-7240) Red Rock (512-332-2978)

Notes:

1. Neutral may be reduced no more than two sizes on residential application. No reduction of the neutral is allowed on commercial application.
2. Weatherproof fittings required.
3. Bluebonnet's pole must remain free of structures and private attachments other than meter loop.



FOR THE MEMBER'S SAFETY,  
 WIRING INSTALLATIONS SHALL  
 CONFORM TO THE REQUIREMENTS  
 OF THE NEC, TDLR AND NESC.

Latest update can be found at  
[www.bluebonnetelectric.coop/setup/meter.shtml](http://www.bluebonnetelectric.coop/setup/meter.shtml)

CURRENT CARRYING CAPACITIES AND CONDUIT SIZE REQUIREMENTS OF STANDARD WIRE SIZES  
 (RH, RHH, RHW, THW, AND XHHW)

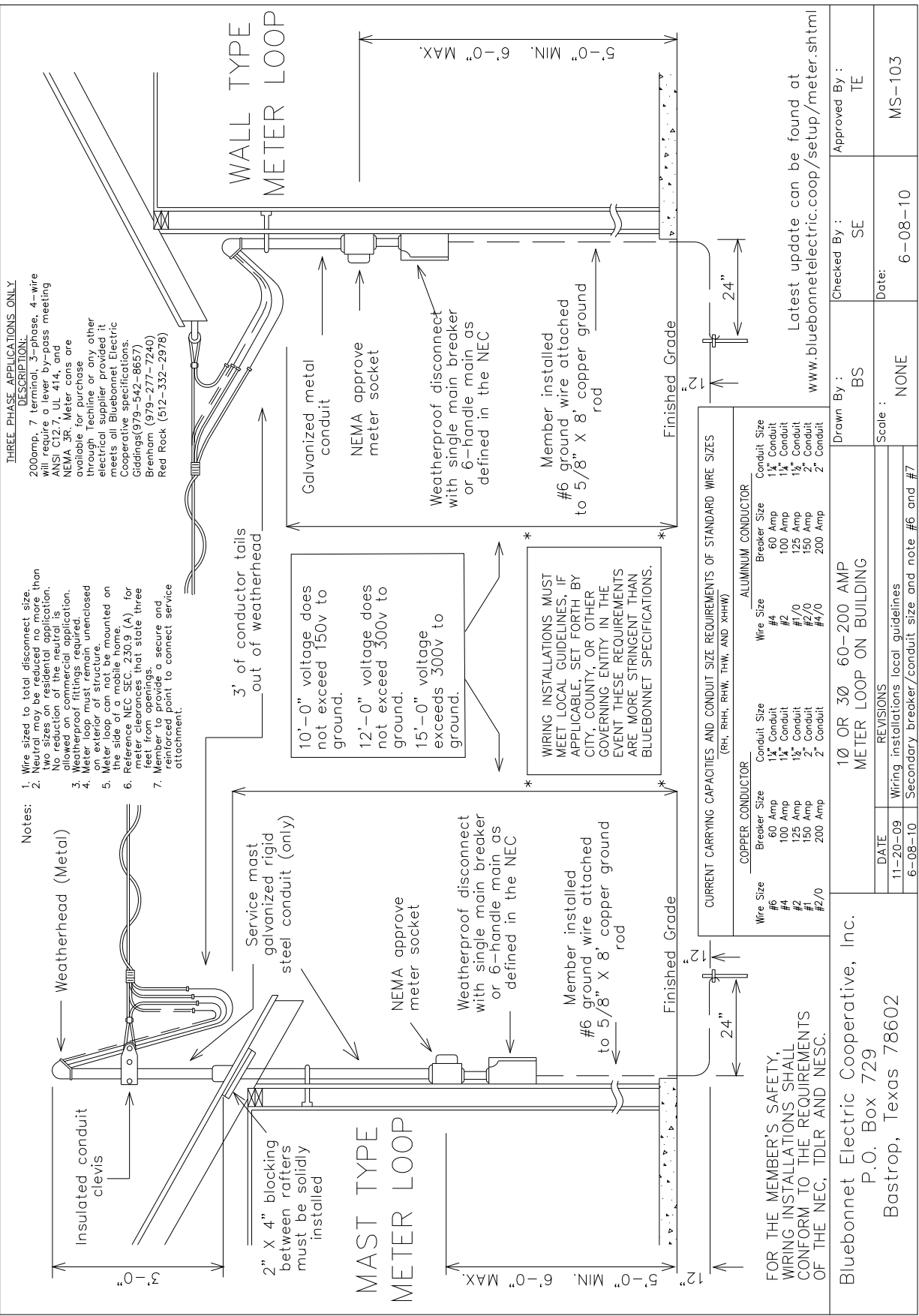
<u>COPPER CONDUCTOR</u>			<u>ALUMINUM CONDUCTOR</u>		
Wire Size	Breaker Size	Conduit Size	Wire Size	Breaker Size	Conduit Size
#6	60 Amp	1 1/4" Conduit	#4	60 Amp	1 1/4" Conduit
#4	100 Amp	1 1/4" Conduit	#2	100 Amp	1 1/4" Conduit
#2	125 Amp	1 1/2" Conduit	#1/0	125 Amp	1 1/2" Conduit
#1	150 Amp	2" Conduit	#2/0	150 Amp	2" Conduit
#2/0	200 Amp	2" Conduit	#4/0	200 Amp	2" Conduit

METER LOOP ASSEMBLY

1Ø OR 3Ø 60-200 AMP METER LOOP  
 ON TRANSFORMER POLE

Bluebonnet Electric Cooperative, Inc.  
 P.O. Box 729  
 Bastrop, Texas 78602

DATE	REVISIONS	Drawn By :	Checked By :	Approved By :
2-29-08	Reduced Neutral Size (See Note #1)	BS	SE	EK
10-15-09	Meter can lever by-pass	Scale :	Date:	
11-20-09	Wiring installations local guidelines	NONE	11-20-09	MS-102



**THREE PHASE APPLICATIONS ONLY**

**DESCRIPTION:**  
 200amp, 7 terminal, 3-phase, 4-wire will require a lever by-pass meeting ANSI C12.7, UL 414, and NEMA 3R. Meter cans are available for purchase through Telchne or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications. Giddings(979-542-8657) Brenham (979-277-7240) Red Rock (512-332-2978)

- Notes:**
1. Wire sized to total disconnect size.
  2. Neutral may be reduced no more than two sizes on residential application. No reduction of the neutral is allowed on commercial application.
  3. Weatherproof fittings required.
  4. Meter can must be unenclosed on exterior of structure.
  5. Meter loop can not be mounted on the side of a mobile home.
  6. Reference NEC SEC. 230.9 (A) for meter clearances that state three feet from openings.
  7. Member installed must secure and reinforced point to connect service attachment.

10'-0" voltage does not exceed 150v to ground.  
 12'-0" voltage does not exceed 300v to ground.  
 15'-0" voltage exceeds 300v to ground.

WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE. SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS.

**CURRENT CARRYING CAPACITIES AND CONDUIT SIZE REQUIREMENTS OF STANDARD WIRE SIZES**  
 (RHH, RHW, XHHW)

COPPER CONDUCTOR		ALUMINUM CONDUCTOR	
Wire Size	Breaker Size	Wire Size	Breaker Size
#6	60 Amp	#4	60 Amp
#4	100 Amp	#2	100 Amp
#2	125 Amp	#1/0	125 Amp
#2/0	150 Amp	#1/0	150 Amp
	200 Amp	#2/0	200 Amp

FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, IDLR AND NESC.

Bluebonnet Electric Cooperative, Inc.  
 P.O. Box 729  
 Bastrop, Texas 78602

Latest update can be found at [www.bluebonnetelectric.coop/setup/meter.shtml](http://www.bluebonnetelectric.coop/setup/meter.shtml)

Checked By : SE  
 Date: 6-08-10

Drawn By : BS  
 Scale : NONE

Approved By : TE  
 MS-103

- Notes:
- Line taps shall be made in the galvanized trough by the electrical contractor. No more than (2) conductors per phase shall be allowed.
  - No more than (2) risers will be connected per installation.
  - Weatherproof fittings required.
  - Wire sized to total disconnect sizes.
  - Neutral(s) may be reduced no more than two sizes on residential application. No reduction of the neutral is allowed on commercial application.
  - Bluebonnet pole must remain free of structures and private attachments other than meter loop riser assembly.
  - Meter assembly must remain unenclosed on exterior of structure.
  - Meter assembly can not be mounted on a mobile home.
  - If secondary service exceeds 1-3" (or 2-2") galvanized metal conduit or schedule 80 rigid nonmetallic conduit, BEC will install a primary underground transformer at member's expense.

Ⓐ  
Transformer Pole Riser Length:  
 35' Pole = 20' Riser  
 40' Pole = 24' Riser

Ⓑ  
Service Pole Riser Length:  
 30' Pole = 20' Riser  
 35' Pole = 24' Riser

**THREE PHASE APPLICATIONS ONLY**  
**DESCRIPTION:**

200amp, 7 terminal, 3-phase, 4-wire will require a lever-by-pass meeting ANSI C12.7, UL 414, and NEMA 3R. Meter cans are available for purchase through Techline or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications. Giddings(979-542-8657) Brenham (979-277-7240) Red Rock (512-332-2978)

(4) 200 amp meter sockets and weatherproof main disconnects

8' ground rod to be driven 12" below grade

24" Minimum  
 To Load

Service to load cable enclosed in minimum schedule 40 nonmetallic conduit.

3" (or 2-2") galvanized metal conduit or schedule 80 rigid nonmetallic conduit above finished grade.  
 Riser w/stand-off brackets and 10' of conductor tails (Bluebonnet to mount risers to pole)

Equipment rack 2" or 3" steel pipe with uni-strut horizontal support.

Rack minimum 6'  
 Building minimum 30'  
 Maximum 100'

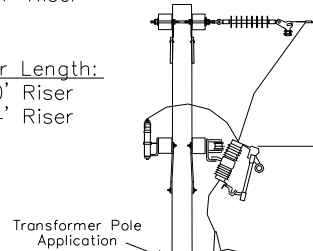
5'-6" Center of Meter

Finished Grade

30" MIN

8" Min. Dia.

Minimum schedule 40 rigid nonmetallic service conduit below finished grade. No schedule 40 conduit allowed above ground level on source side of main disconnect.



Transformer Pole Application

Service Pole Application

Riser Length Ⓐ Ⓑ

BEC To Supply Stand-Offs

Pipe grounding strap when galvanized metal is used.

\* WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. \*

FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.

Latest update can be found at [www.bluebonnetelectric.coop/meters.aspx](http://www.bluebonnetelectric.coop/meters.aspx)

Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602		1Ø OR 3Ø 60-200 AMP GANG MOUNTED METERS ON RACK OR BUILDING		
		Drawn By : BS	Checked By : SE	Approved By : TE
DATE	REVISIONS	Scale :	Date :	
11-20-09	Wiring installations local guidelines	NONE	08-16-10	MS-105
08-16-10	Meter rack locations detached from pole			

**THREE PHASE APPLICATIONS ONLY**  
**DESCRIPTION:**  
 200amp, 7 terminal, 3-phase, 4-wire will require a lever-by-pass meeting ANSI C12.7, UL 414, and NEMA 3R. Meter cans are available for purchase through Techline or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications.  
 Giddings(979-542-8657)  
 Brenham (979-277-7240)  
 Red Rock (512-332-2978)

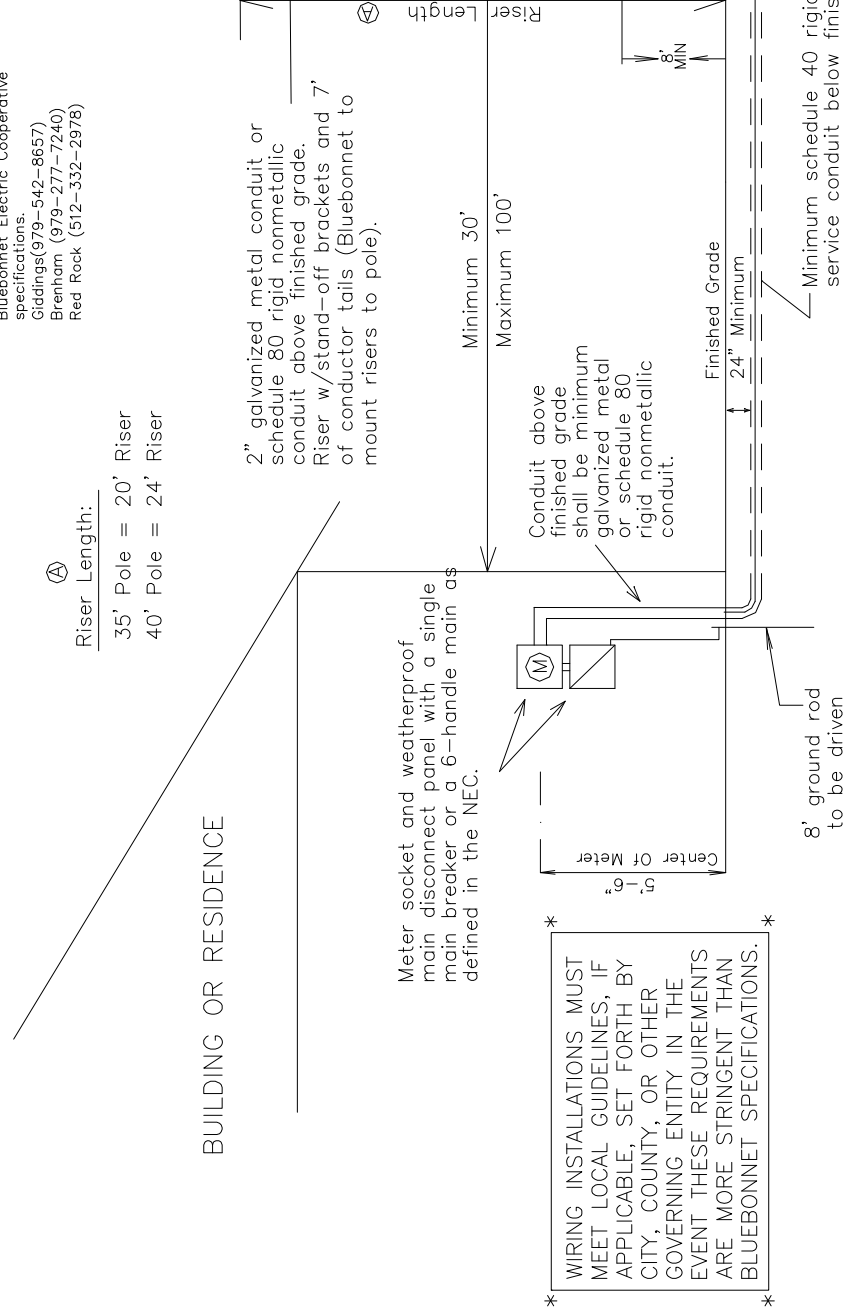
4. Bluebonnet pole must remain free of structures and private attachments other than meter loop riser assembly.
5. Meter assembly must remain unenclosed on exterior of structure.
6. Meter assembly can not be mounted on a mobile home.

**Riser Length:**  
 35' Pole = 20' Riser  
 40' Pole = 24' Riser

**BUILDING OR RESIDENCE**

1. Weatherproof fittings required.
2. Wire sized to total disconnect size.
3. Neutral may only be reduced two sizes on residential application. No reduction of the neutral is allowed on commercial application.

Notes:



\* WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. \*

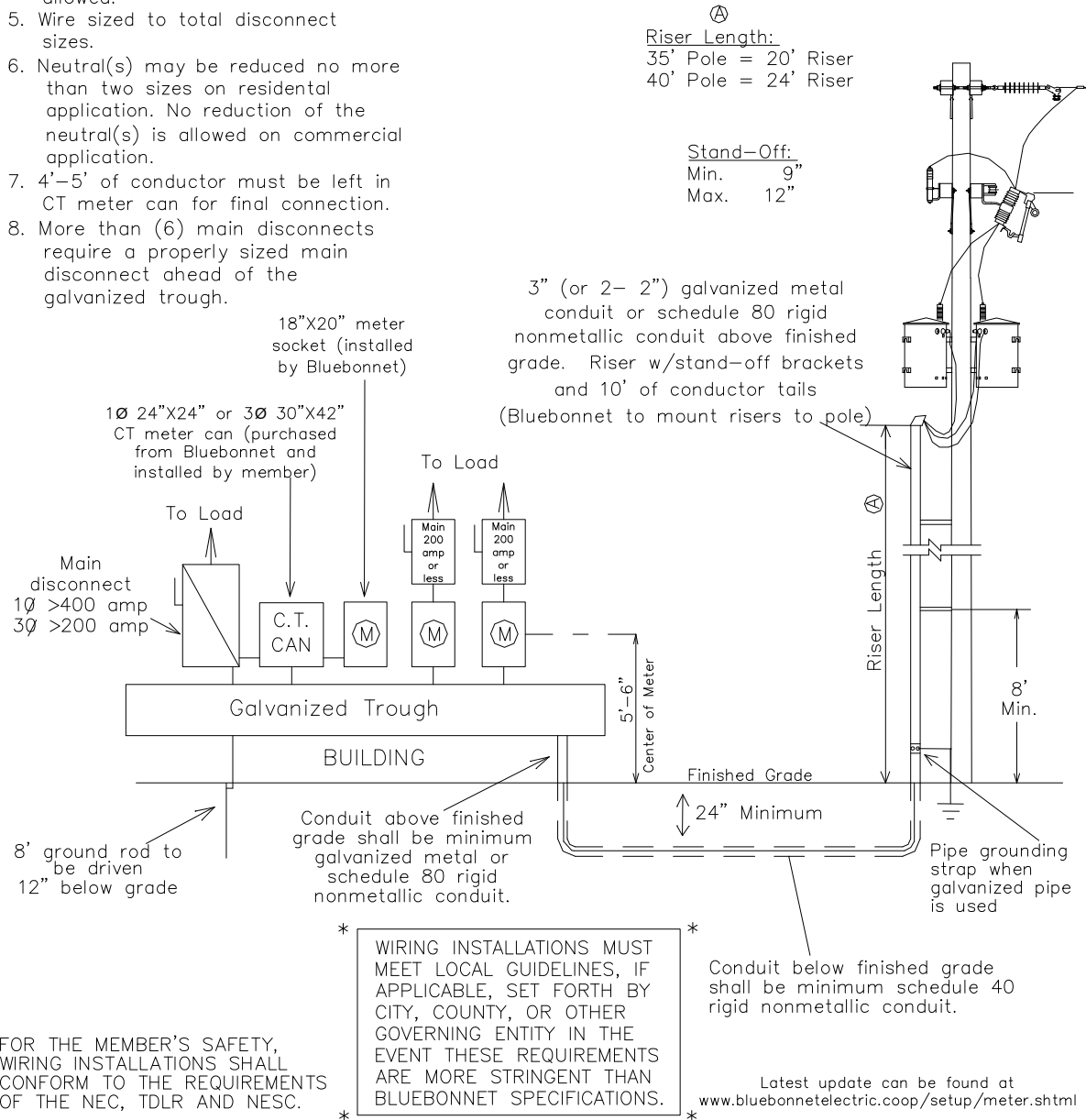
FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.

Latest update can be found at [www.bluebonnetelectric.coop/setup/meter.shtml](http://www.bluebonnetelectric.coop/setup/meter.shtml)

Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602	1 Ø OR 3Ø 60-200 AMP METER ON BUILDING OR RESIDENCE		Drawn By : BS	Checked By : SE	Approved By : EK
	DATE 10-15-09	REVISIONS Meter can lever-by-pass	Scale : NONE	Date : 11-20-09	MS-106

Notes:

1. Line taps shall be made in the galvanized wiring trough by the electrical contractor.
2. Weatherproof fittings Required.
3. (2) disconnects could be substituted with (1) fused disconnect.
4. No more than (2) risers or (2) conductors per phase shall be allowed.
5. Wire sized to total disconnect sizes.
6. Neutral(s) may be reduced no more than two sizes on residential application. No reduction of the neutral(s) is allowed on commercial application.
7. 4'-5' of conductor must be left in CT meter can for final connection.
8. More than (6) main disconnects require a properly sized main disconnect ahead of the galvanized trough.
9. Bluebonnet pole must remain free of structures and private attachments other than meter loop riser assembly.
10. Meter assembly must remain unenclosed on exterior of structure.



FOR THE MEMBER'S SAFETY,  
WIRING INSTALLATIONS SHALL  
CONFORM TO THE REQUIREMENTS  
OF THE NEC, TDLR AND NESC.

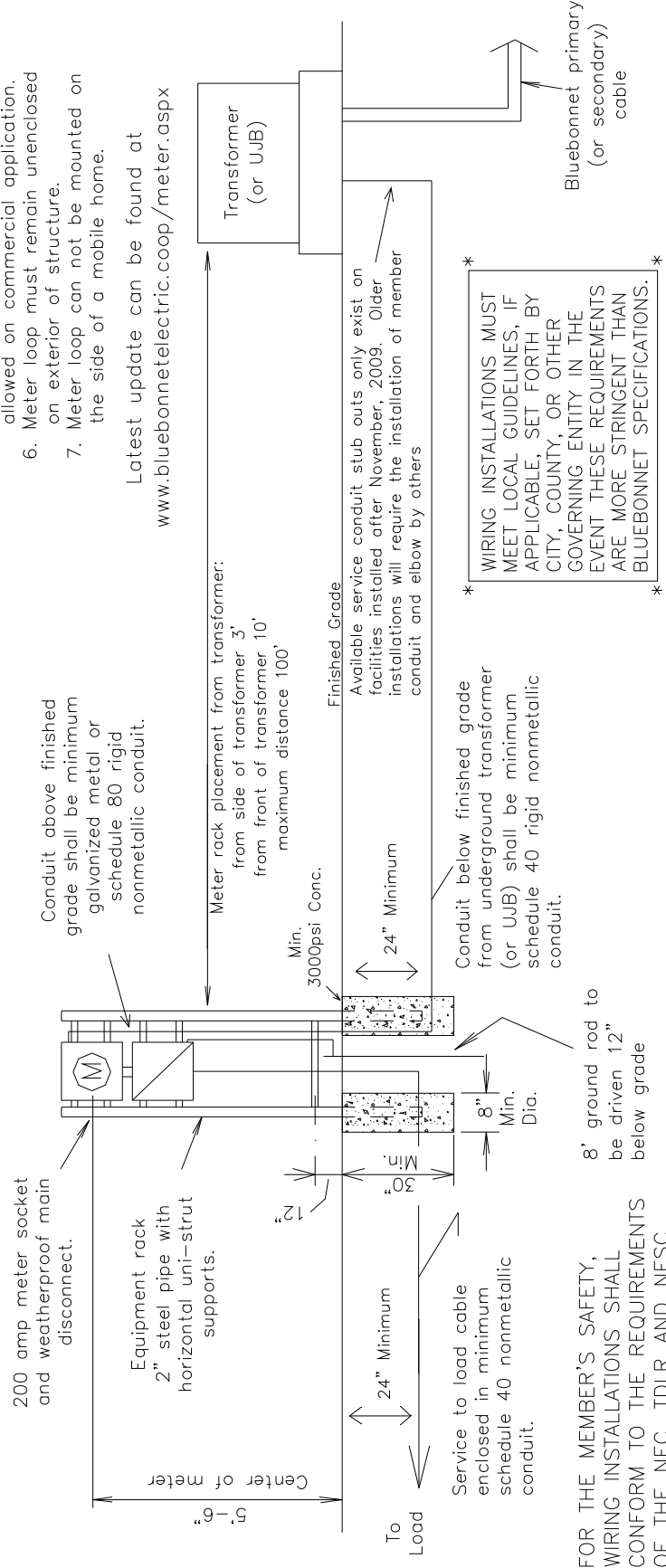
<b>METER LOOP ASSEMBLY</b> 1Ø >400 AMP OR 3Ø >200 AMP MULTIPLE METERING POINTS WITH CT METERING ON BUILDING.		Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602		
DATE	REVISIONS	Drawn By :	Checked By :	Approved By :
2-29-08	Reduced Neutral Size (See Note #6)	BS	SE	EK
11-20-09	Wiring installations local guidelines	Scale :	Date :	MS-114
		NONE	11-20-09	

CURRENT CARRYING CAPACITIES AND CONDUIT SIZE REQUIREMENT OF STANDARD WIRE SIZE

COPPER CONDUCTOR		ALUMINUM CONDUCTOR	
WIRE SIZE	BREAKER SIZE	WIRE SIZE	BREAKER SIZE
#6	60 AMP	#4	60 AMP
#4	100 AMP	#2	100 AMP
#2	125 AMP	#1/0	125 AMP
#1	150 AMP	#2/0	150 AMP
#2/0	200 AMP	#4/0	200 AMP

- Notes:
1. Weatherproof fittings required.
  2. For all URD jobs, electricians should call in for locate before digging to Bluebonnet equipment.
  3. Cooperative will complete wiring into transformer or UJB. Have sufficient amount of wire for termination.
  4. Main disconnect shall have a single main breaker or 6-handle main as defined in the NEC.
  5. Neutral may be reduced no more than two sizes on residential application. No reduction of the neutral is allowed on commercial application.
  6. Meter loop must remain unenclosed on exterior of structure.
  7. Meter loop can not be mounted on the side of a mobile home.

Latest update can be found at [www.bluebonnetelectric.coop/meter.aspx](http://www.bluebonnetelectric.coop/meter.aspx)



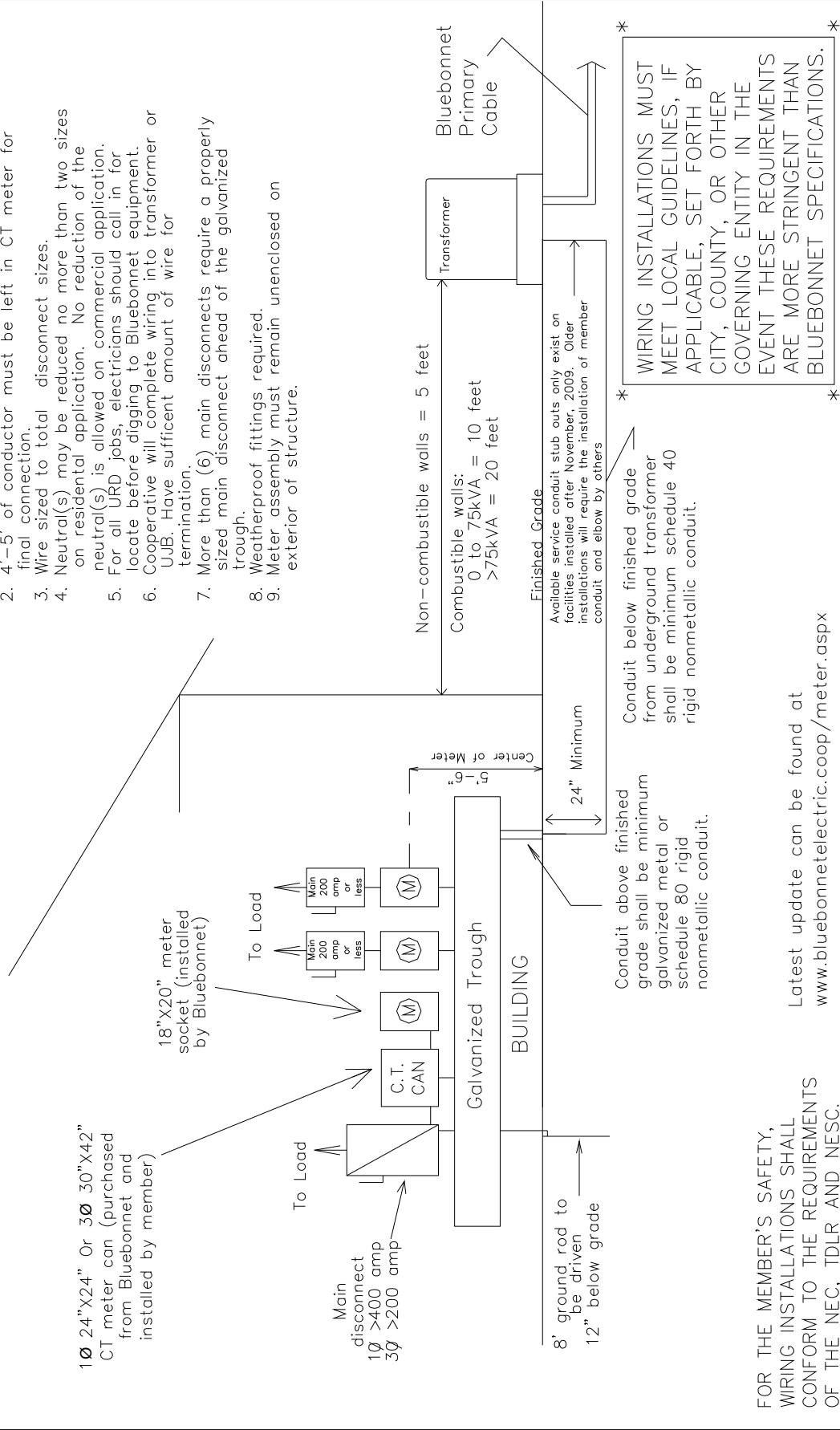
\* WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES. IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. \*

FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.

Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602	1Ø OR 3Ø, 60-200 AMP URD SERVICE ON RACK OR BUILDING		Drawn By : BS	Checked By : SE	Approved By : DB
	DATE	REVISIONS	Scale : NONE	Date : 10-20-10	MS-201
	11-20-09	Wiring installations local guidelines			
	10-20-10	Member's service conduit availability			

Notes:

1. Line taps shall be made in the galvanized wiring trough by the electrical contractor.
2. 4'-5' of conductor must be left in CT meter for final connection.
3. Wire sized to total disconnect sizes.
4. Neutral(s) may be reduced no more than two sizes on residential application. No reduction of the neutral(s) is allowed on commercial application.
5. For all URD jobs, electricians should call in for locate before digging to Bluebonnet equipment.
6. Cooperative will complete wiring into transformer or UJB. Have sufficient amount of wire for termination.
7. More than (6) main disconnects require a properly sized main disconnect ahead of the galvanized trough.
8. Weatherproof fittings required.
9. Meter assembly must remain unenclosed on exterior of structure.



FOR THE MEMBER'S SAFETY,  
 WIRING INSTALLATIONS SHALL  
 CONFORM TO THE REQUIREMENTS  
 OF THE NEC, TDLR AND NESC.

Latest update can be found at  
[www.bluebonnetelectric.coop/meter.aspx](http://www.bluebonnetelectric.coop/meter.aspx)

Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602	1Ø > 400 AMP OR 3Ø > 200 AMP MULTIPLE METERING POINTS WITH CT METERING ON BUILDING	Drawn By : BS	Checked By : SE	Approved By : DB
	REVISIONS	Scale :	Date :	
	11-20-09 Wiring installations local guidelines 10-20-10 Member's service conduit availability	NONE	10-20-10	MS-202

Notes:

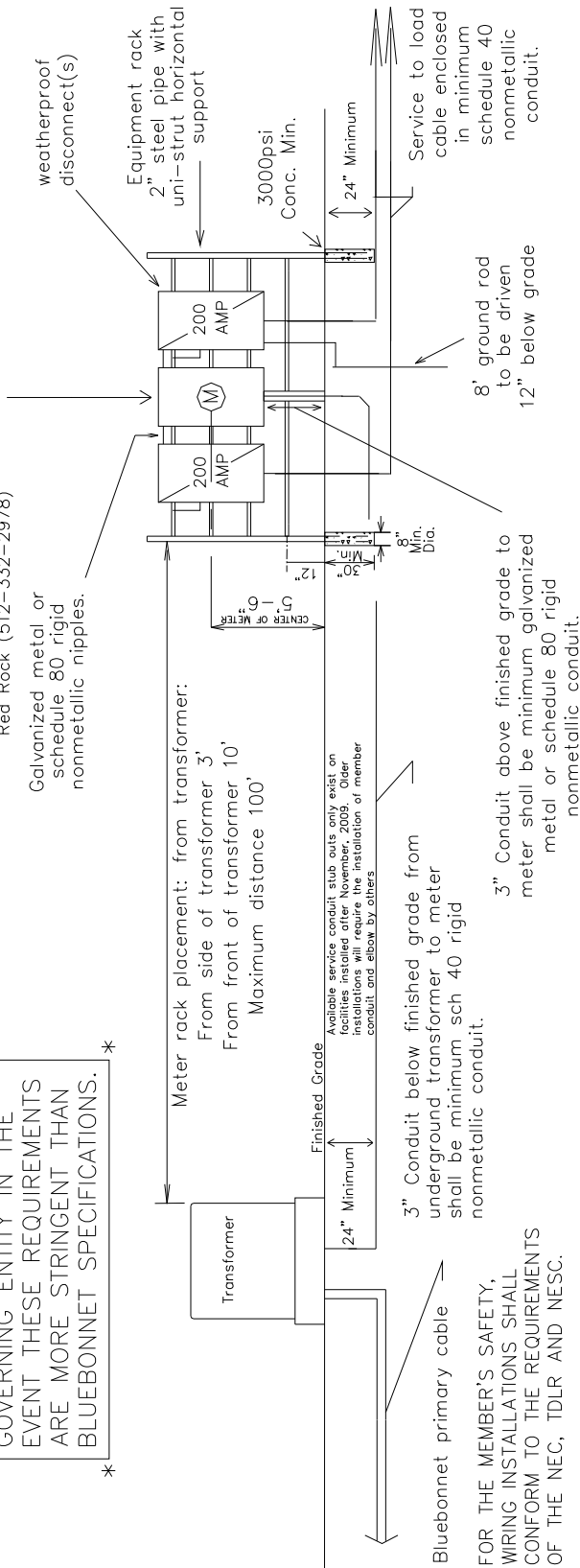
1. Main disconnect panel may not be used as a electrical race way.
2. Line taps shall be made by the electrical contractor if a galvanized wiring trough is used.
3. Weatherproof fittings required.
4. Any combination of six disconnects totaling no more than 400 amp. REF. NEC, SEC 230.71
5. Wire size is either parallel 2/0 THHN copper or parallel 4/0 THHN aluminum.
6. Neutrals may be reduced no more than two sizes on residential applications. No reduction of the neutrals is allowed on commercial applications.

\*  
**WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE; SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS.**  
 \*

7. Bluebonnet will complete wiring into transformer or UJB. Member shall have sufficient amount of wire for termination.
8. Weatherproof main disconnect panels shall have a single main breaker or 6-handle main as defined in the NEC.
9. Meter loop must remain unenclosed on exterior of structure.
10. Meter loop can not be mounted on the side of a mobile home.

Latest update can be found at  
[www.bluebonnetelectric.coop/meter.aspx](http://www.bluebonnetelectric.coop/meter.aspx)

Landis & Gyr, Type K-4, Description: 400 amp, 4 terminals, 3 wire, residential/commercial socket single phase self-contained, large coverplate. These meter cans are available for purchase through Techline or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications. Techline phone numbers are: Giddings (979-542-8657), Brenham (979-277-7240), Red Rock (512-332-2978)



Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602		1Ø 400 AMP URD SERVICE ON RACK OR BUILDING WITH CLASS 400 AMP METER SOCKET	Drawn By : BS	Checked By : SE	Approved By : DB
DATE	REVISIONS				
11-20-09	Wiring installations local guidelines	Scale :	NONE	Date :	10-20-10
10-20-10	Member's service conduit availability				
		MS-203			

Notes:

1. Line taps shall be made in the galvanized trough by the electrical contractor.
2. Weatherproof fittings required.
3. (2) disconnects could be substituted with (1) fused disconnect.
4. Wire sized to total disconnect sizes.
5. Neutral(s) may be reduced no more than two sizes on residential application. No reduction of the neutral(s) is allowed on commercial application.
6. For all URD jobs, electricians should call in for locate before digging to Bluebonnet equipment.
7. Bluebonnet will complete wiring into transformer. Have sufficient amount of wire for termination.

THREE PHASE APPLICATIONS ONLY

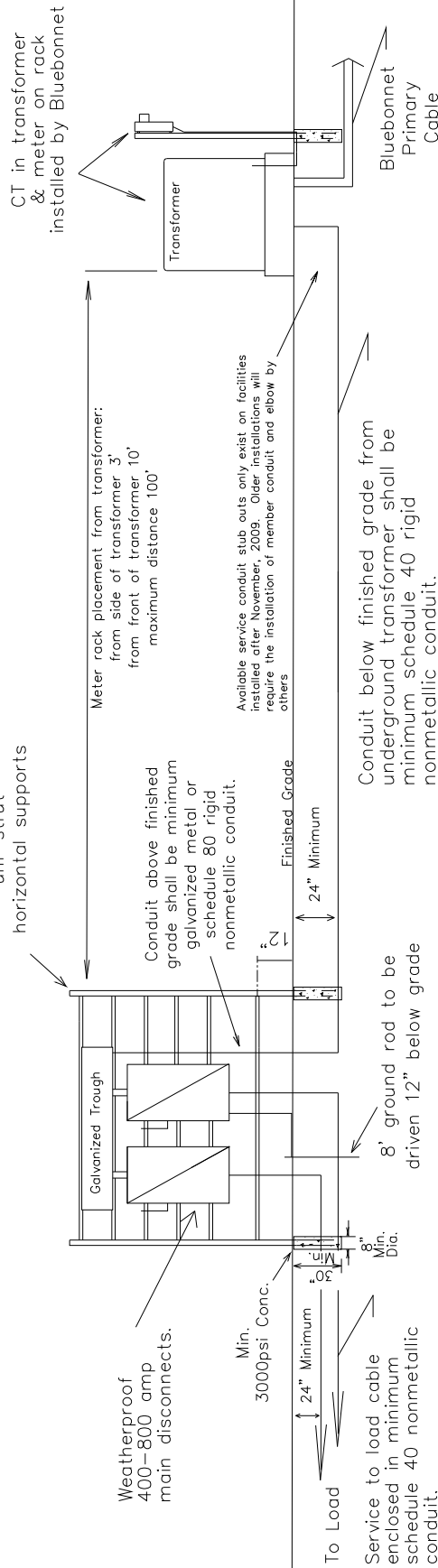
DESCRIPTION:

200amp, 7 terminal, 3-phase, 4-wire will require a lever by-pass meeting ANSI C12.7, UL 414, and NEMA 3R. Meter cans are available for purchase through Techline or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications.  
 Giddings(979-542-8657)  
 Brenham (979-277-7240)  
 Red Rock (512-332-2978)

FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.

\* WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. \*

Equipment rack  
 2" steel pipe with  
 uni-strut  
 horizontal supports



Conduit below finished grade from underground transformer shall be minimum schedule 40 rigid nonmetallic conduit.

8' ground rod to be driven 12" below grade

Latest update can be found at  
[www.bluebonnetelectric.coop/meter.aspx](http://www.bluebonnetelectric.coop/meter.aspx)

Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602		1Ø > 400 AMP OR 3Ø >200 AMP URD SERVICE WITH CT METER ON RACK OR BUILDING		Drawn By : BS	Checked By : SE	Approved By : DB
		REVISIONS		Scale : NONE	Date : 10-20-10	MS-204
DATE	10-15-09	Meter can lever by-pass				
	10-20-10	Member's service conduit availability				

**THREE PHASE APPLICATIONS ONLY**

**DESCRIPTION:**

200amp, 7 terminal, 3-phase, 4-wire will require a lever by-pass meeting ANSI C12.7, UL 414, and NEMA 3R. Meter cans are available for purchase through Techline or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications.  
 Giddings(979-542-8657)  
 Brenham (979-277-7240)  
 Red Rock (512-332-2978)

**Notes:**

1. Line taps shall be made in the galvanized trough by the electrical contractor.
2. More than (6) main disconnects require a properly sized main disconnect ahead of the galvanized trough.
3. Weatherproof fittings required.
4. Wire sized to total disconnect sizes.
5. Neutral(s) may be reduced no more than two sizes on residential application. No reduction of the neutral(s) is allowed on commercial application.
6. For all URD jobs, electricians should call in for locate before digging to Bluebonnet equipment.
7. Bluebonnet will complete wiring into transformer.
8. Have sufficient amount of wire for termination.
9. Meter loop must remain unenclosed on exterior of structure.
10. Meter loop can not be mounted on the side of a mobile home.

\* **WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS.** \*

Equipment rack  
 2" steel pipe with uni-strut horizontal supports

(2-4) 200 amp meter sockets and main disconnects

Conduit above finished grade shall be minimum galvanized metal or schedule 80 rigid nonmetallic conduit.

Meter rack placement from transformer:  
 from side of transformer 3'  
 from front of transformer 10'  
 maximum distance 100'

Min. 3000psi Conc.

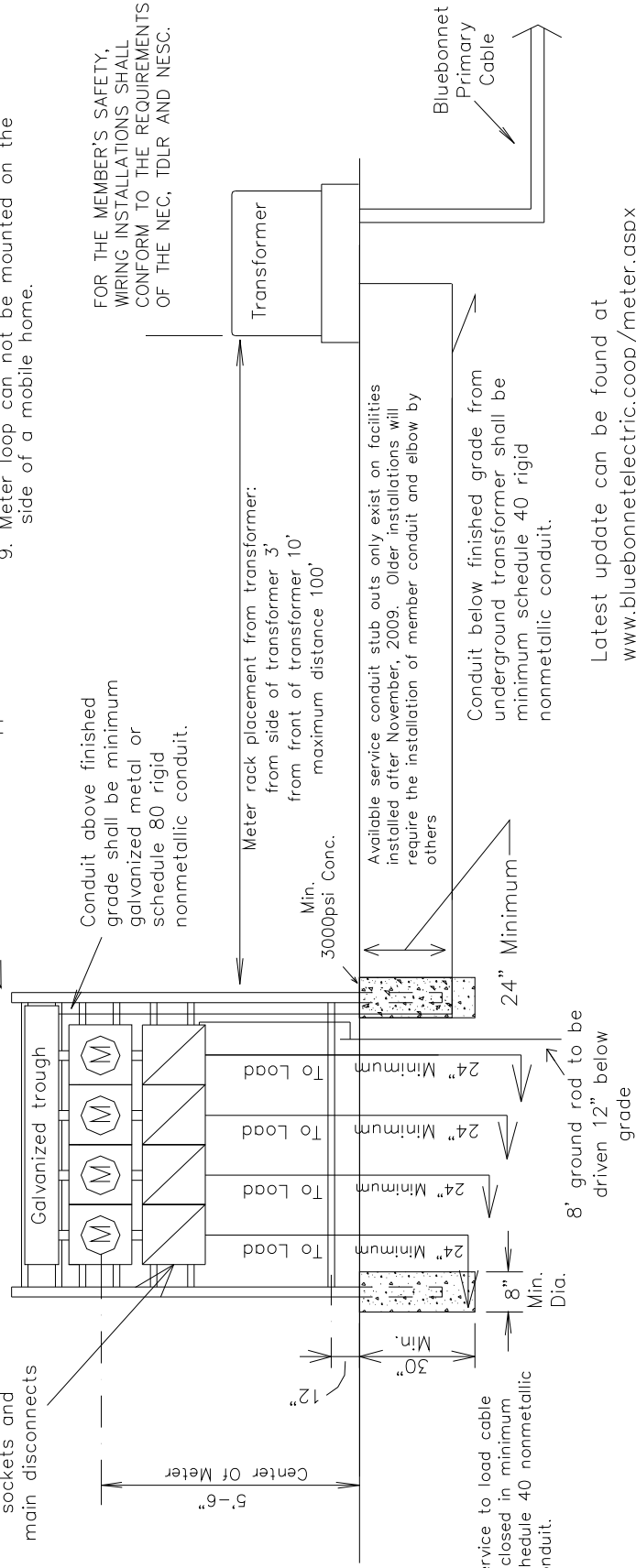
Available service conduit stub outs only exist on facilities installed after November, 2009. Older installations will require the installation of member conduit and elbow by others

Conduit below finished grade from underground transformer shall be minimum schedule 40 rigid nonmetallic conduit.

8' ground rod to be driven 12" below grade

Service to load cable enclosed in minimum schedule 40 nonmetallic conduit.

FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.



Latest update can be found at [www.bluebonnetelectric.coop/meter.aspx](http://www.bluebonnetelectric.coop/meter.aspx)

Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602		1Ø OR 3Ø, 60-200 AMP URD GANG MOUNTED METERS ON RACK OR BUILDING		Checked By : SE	Approved By : DB
DATE	REVISIONS	Scale :	Date :		
11-20-09	Wiring installations local guidelines	NONE	10-20-10		
10-20-10	Member's service conduit availability				

**CURRENT CARRYING CAPACITIES AND CONDUIT SIZE REQUIREMENT OF STANDARD WIRE SIZE**  
(RH,RHH,RHW,THW,AND XHHW)

WIRE SIZE	COPPER CONDUCTOR		ALUMINUM CONDUCTOR	
	BREAKER SIZE	CONDUIT SIZE	BREAKER SIZE	CONDUIT SIZE
#6	60 AMP	1½" CONDUIT	60 AMP	1½" CONDUIT
#4	100 AMP	1½" CONDUIT	100 AMP	1½" CONDUIT
#2	125 AMP	1½" CONDUIT	125 AMP	1½" CONDUIT
#1	150 AMP	2" CONDUIT	150 AMP	2" CONDUIT
#2/0	200 AMP	2" CONDUIT	200 AMP	2" CONDUIT

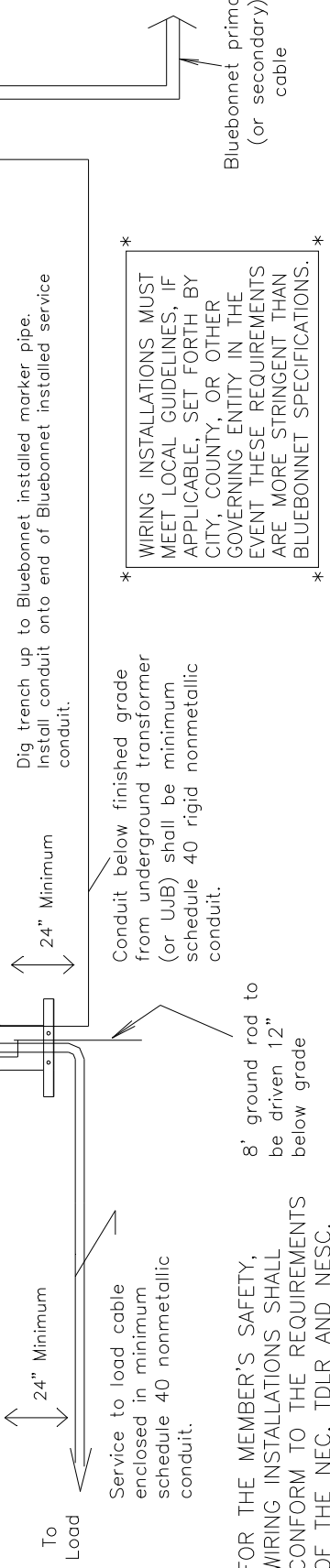
These meter pedestals are available for purchase through Techline. Phone numbers are:  
 Giddings (979-542-8657), Brenham (979-277-7240), Red Rock (512-332-2978)

200A URD Meter Pedestal  
 If purchased from Bluebonnet, installed by Bluebonnet Contractor during job construction.

Conduit above finished grade shall be minimum galvanized metal or schedule 80 rigid nonmetallic conduit.

Meter pedestal placement from transformer:  
 from side of transformer 3' from front of transformer 10' maximum distance 100'

ACCEPTABLE PLUG-ON BREAKERS:  
 WESTINGHOUSE QUICKLAG P, ITE-OP, G.E.-Q LINE, BRYANT-BR, SQUARE D-HOMELINE.



**Notes:**

1. Weatherproof fittings required.
2. For all URD jobs, electricians should call in for locate before digging to Bluebonnet equipment. Cooperative will complete wiring between pedestal and transformer or UJB. Have sufficient amount of wire for termination.
3. Main disconnect supplied with pedestal. Repair or replacement of main disconnect after initial installation will be responsibility of member.
4. Neutral may be reduced no more than two sizes on residential application. No reduction of the neutral is allowed on commercial application.
5. Meter pedestal must remain unenclosed and accessible by Bluebonnet personnel at all times.

Latest update can be found at [www.bluebonnetelectric.coop/setup/meter.shtml](http://www.bluebonnetelectric.coop/setup/meter.shtml)

\* WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE. SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. \*

FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.

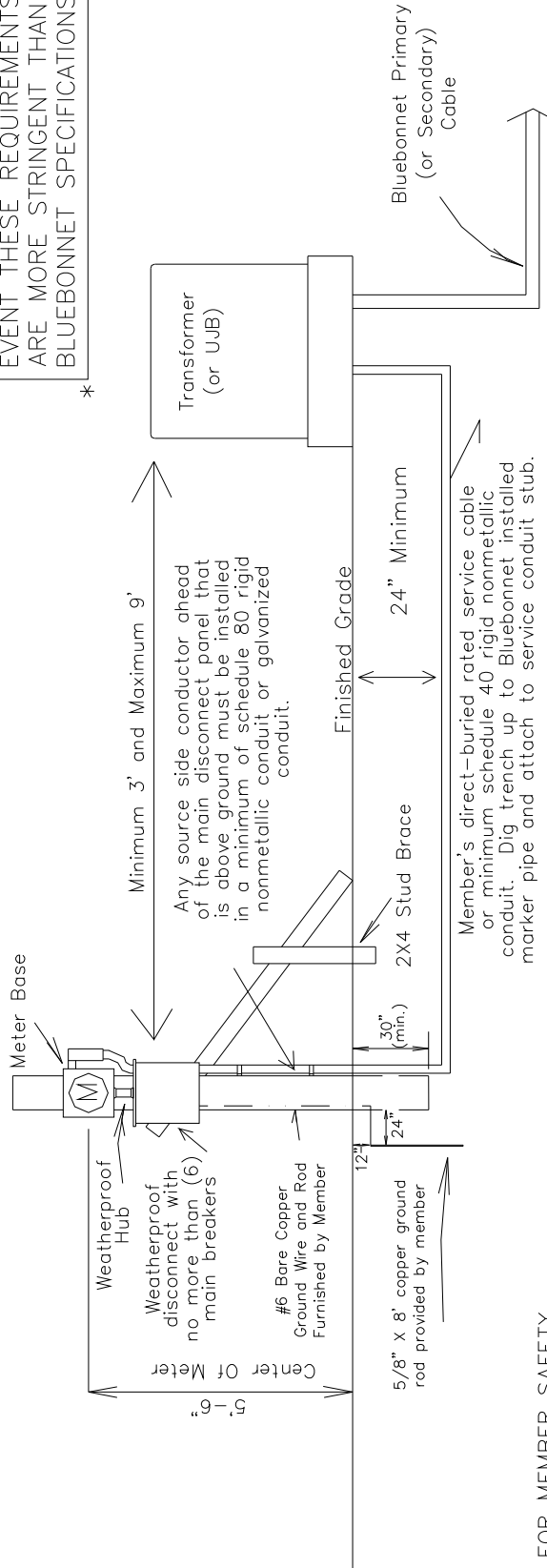
Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602	Drawn By : SCE	Checked By : SCE	Approved By : EK
	Scale : NONE	Date : 1-15-10	
	1Ø, 60-200 AMP URD SERVICE ON URD METER PEDESTAL REVISIONS		

Notes:

1. All temporary wiring should meet national electrical code standards.
2. All outlets attached to meter loop shall have ground-fault circuit interrupter protection.
3. For all URD jobs, electrician should call in for locate before digging to Bluebonnet equipment.

4. Bluebonnet does inspect temporary meter loops and a fee shall be charged per trip for wiring inspection. Bluebonnet will refuse service if hazardous conditions exist and/or if connections do not meet specifications.
5. Bluebonnet will complete wiring into transformer or UJB. Member shall have sufficient amount of wire for termination.

\* WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. \*



FOR MEMBER SAFETY,  
WIRING INSTALLATIONS SHALL  
CONFORM TO THE REQUIREMENTS  
OF THE NEC, TDLR AND NESC.

Latest updates can be found at  
[www.bluebonnetelectric.coop/setup/meter.shtml](http://www.bluebonnetelectric.coop/setup/meter.shtml)

CURRENT CARRYING CAPACITIES AND CONDUIT SIZE REQUIREMENT OF STANDARD WIRE SIZE (RH,RHH,RHW,THW,AND XHHW)			
COPPER CONDUCTOR		ALUMINUM CONDUCTOR	
WIRE SIZE	BREAKER SIZE	WIRE SIZE	BREAKER SIZE
#6	60 AMP	#4	60 AMP
#4	100 AMP	#2	100 AMP
#2	125 AMP	#1/0	125 AMP
#1	150 AMP	#2/0	150 AMP
#2/0	200 AMP	#4/0	200 AMP

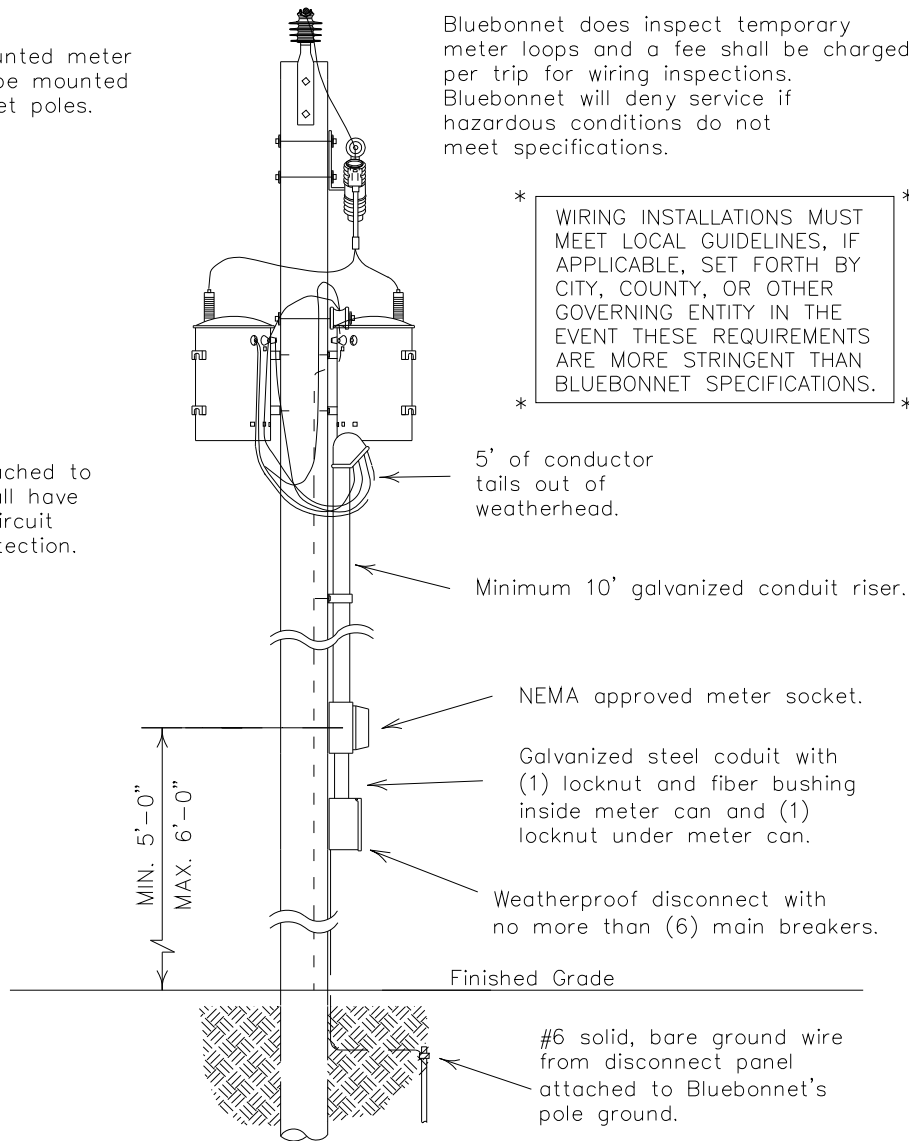
Bluebonnet Electric Cooperative, Inc. P.O. Box 729 Bastrop, Texas 78602	TEMPORARY METER LOOP SERVICE UNDERGROUND	Drawn By : BS	Checked By : SE	Approved By : EK
	DATE 11-20-09	REVISIONS Wiring installations local guidelines	Scale : NONE	DATE: 11-20-09
				MS-302

All pole mounted meter loops shall be mounted to Bluebonnet poles.

Bluebonnet does inspect temporary meter loops and a fee shall be charged per trip for wiring inspections. Bluebonnet will deny service if hazardous conditions do not meet specifications.

\* WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. \*

All outlets attached to meter loop shall have ground-fault circuit interrupter protection.



FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.

Latest update can be found at [www.bluebonnetelectric.coop/setup/meter.shtml](http://www.bluebonnetelectric.coop/setup/meter.shtml)

**CURRENT CARRYING CAPACITIES AND CONDUIT SIZE REQUIREMENTS OF STANDARD WIRE SIZES**  
(RH, RHH, RHW, THW, AND XHHW)

COPPER CONDUCTOR			ALUMINUM CONDUCTOR		
Wire Size	Breaker Size	Conduit Size	Wire Size	Breaker Size	Conduit Size
#6	60 Amp	1¼" Conduit	#4	60 Amp	1¼" Conduit
#4	100 Amp	1¼" Conduit	#2	100 Amp	1¼" Conduit
#2	125 Amp	1½" Conduit	#1/0	125 Amp	1½" Conduit
#1	150 Amp	2" Conduit	#2/0	150 Amp	2" Conduit
#2/0	200 Amp	2" Conduit	#4/0	200 Amp	2" Conduit

**TEMPORARY METER LOOP ASSEMBLY**

1Ø OR 3Ø 60-200 AMP METER LOOP FOR TRANSFORMER AND SERVICE POLES

Bluebonnet Electric Cooperative, Inc.  
P.O. Box 729  
Bastrop, Texas 78602

DATE	REVISIONS	Drawn By :	Checked By :	Approved By :
11-20-09	Wiring installations local guidelines	BS	SE	EK
		Scale :	DATE:	MS-303
		NONE	11-20-09	