

## 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 more than 100,000 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 over 12,000 miles of distribution lines. The organization owns 20 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 <u>bluebonnet.coop</u> 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

# **Table of Contents**

Development Information Request Form	Page 3
Developer's Checklist	Page 4
<ul> <li>Developer's Fees and Information</li> <li>Development Fees</li> <li>Street Lighting</li> </ul>	Page 5
Easements/Right of Way <ul> <li>Front Lot / Back Lot Facilities</li> </ul>	Page 6
Inspection Guidelines and Procedures	Page 7
Bluebonnet Specifications	Page 8
<ul> <li>Ditch and Conduit Placement</li> <li>Road Crossing</li> <li>Pad Mounted Switchgear Easement Requirements</li> <li>Dimensions and Wiring Single-Phase Transformer</li> <li>Dimensions and Wiring Single-Phase Sectionalizer</li> <li>Three-Phase Transformer Pad 45-750 kVA</li> <li>Three-Phase Transformer Pad 1000-2500 kVA</li> <li>Dimensions for Three-Phase Sectionalizer 600A</li> <li>Standard Residential Streetlight</li> <li>Right-of-Way Clearing Guide</li> <li>Dimensions for Pad Mounted Switchgear</li> <li>Meter Loop Specifications (Multiple)</li> <li>Material Standards</li> </ul>	Page 9 Page 10 Page 11 Page 12 Page 13 Page 14 Page 15 Page 16 Page 17 Page 18 Page 19 Page 22-38 Page 39

## **Development Information Request Form**

SUBDIVISION or PROJECT NAME:			
LOCATION OF PROJECT:			
DEVELOPER'S NAME:			
REPRESENTED BY:			
		E-mail:	
MAILING ADDRESS:			
ENGINEERING FIRM:			
REPRESENTED BY:		PHONE:	
		E-mail:	
TYPE OF PROJECT:	SECTION	NUMBER OF LOTS	TOTAL LOTS
(Check all that apply)	(Insert Section #)		(In all sections)
□ RESIDENTIAL			(in an sections)
$\square$ APARTMENTS			
□ MOBILE HOME/RV PARK			
□ COMMERCIAL			
□ OTHER			
Taxing jurisdiction(s) and entities in wh (911) Address of Development Estimated number of units to be constru Anticipated total project completion date Homebuilder & Contact Person	cted and occupied with	in the first 12 months.	
OTHER UTILITY PROVIDERS (Com	oany Name)		
□ WATER	•		
$\Box$ GAS (YES or NO)			
$\Box$ CABLE			
□ TELEPHONE			
LOAD EXPECTATIONS: (Check All T LIFT STATION/WASTE WAT WATER WELL HOME SIZES FROM AMENITY CENTER, PARKS, COMMERCIAL SITES WITH STREETLIGHTING – Response	TER PLANT TO CLUB HOUSE IN DEVELOPMENT	<u>SQ FT.</u> lighting charges	
□ IRRIGATION SYSTEMS			
$\Box$ 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

#### **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, grading plans, and streetlight locations (if required) 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). \*\*If project design includes overhead primary lines and transformers in conjunction with underground meter pedestals, Developer may install road crossings ONLY. Bluebonnet contractors shall complete installation from road crossings to point of termination and this labor and material will be figured into the respective Contribution In Aid of Construction (CIAC).\*\*
- □ 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 department will contact developer to communicate planned construction start date and duration following project being released for scheduling.
- 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 <u>bluebonnet.coop</u>.
- 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 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**

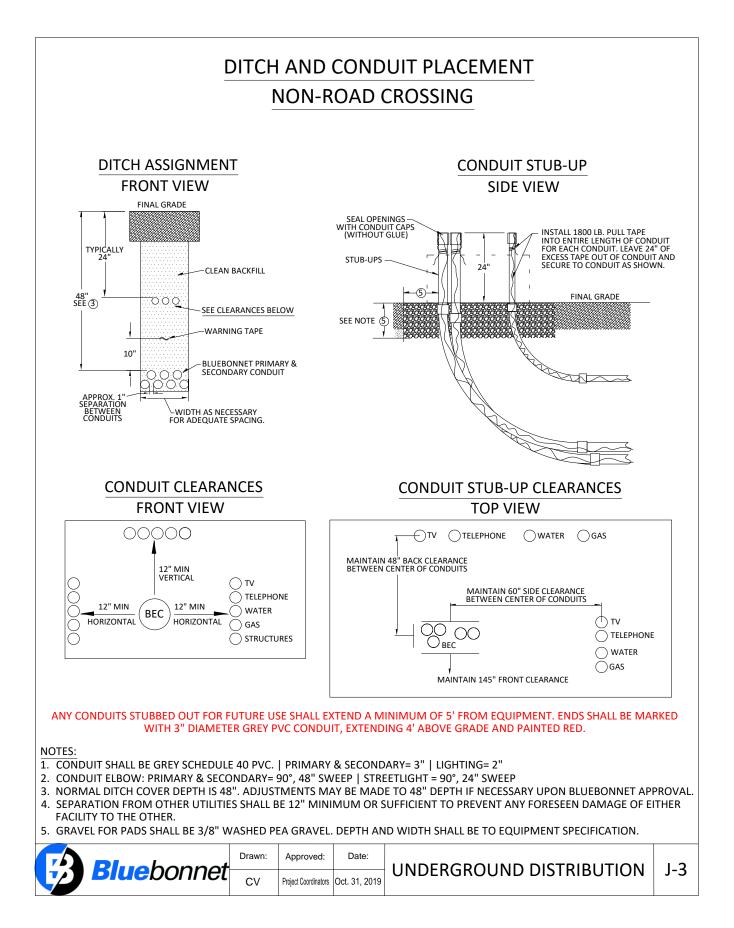
- 1. Developer to provide all pertinent conduit contractor information to Bluebonnet Project Coordinator prior to conduit installation. Bluebonnet Project Coordinator will provide all pertinent Bluebonnet Inspector information to developer.
- 2. Developer will schedule and conduct a pre-construction 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 noncompliance 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.
- 10. Developer or his/her contractor is responsible for acquiring any and all permits and remitting any necessary fees for trench and conduit installation (excavation plans, traffic control plans, digging permits, etc.)

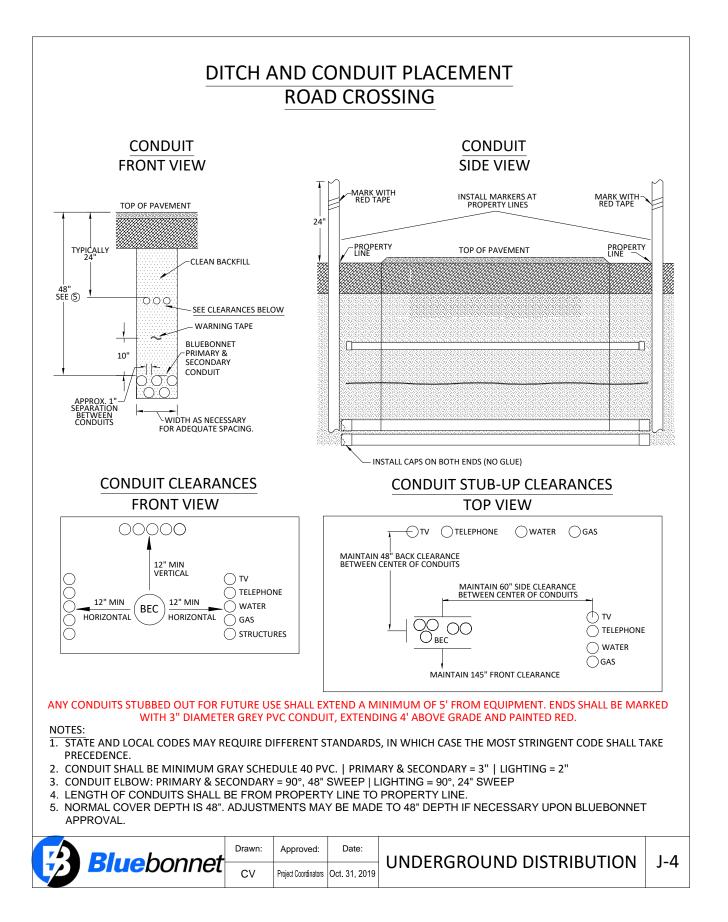
### **BLUEBONNET INSPECTORS**

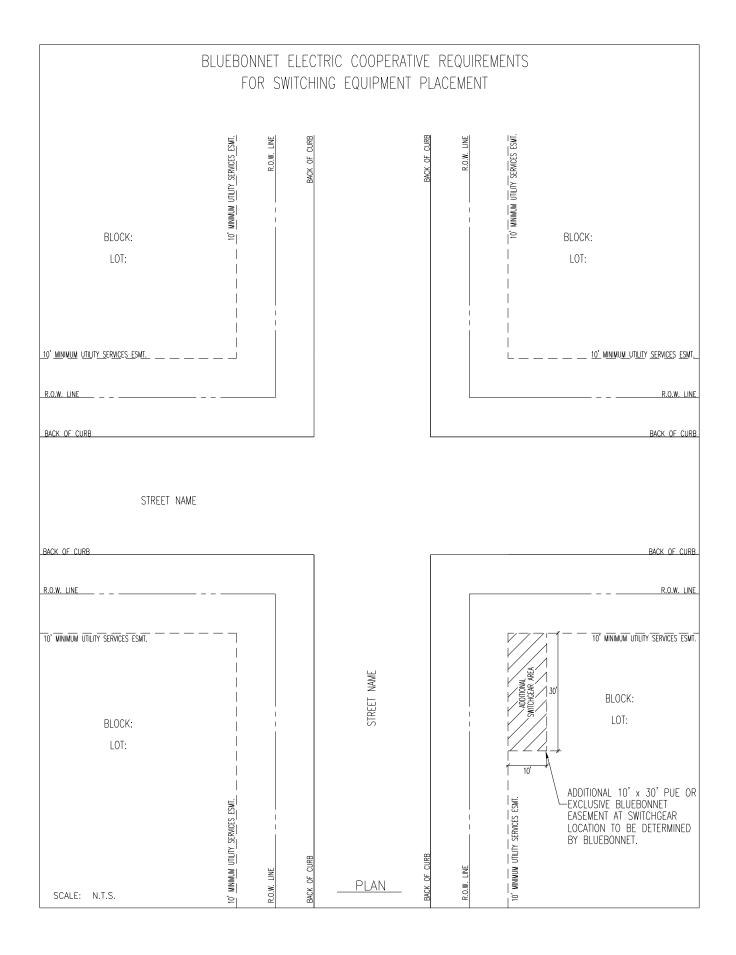
Pat Majewski – 979-203-0749, <u>pat.majewski@bluebonnet.coop</u> Carl Miller – 979-540-6495, <u>carl.miller@bluebonnet.coop</u> Jose Hernandez – 720-670-7299 <u>jose.hernandez@bluebonnet.coop</u> Tim Mittasch – 979-540-7159 <u>tim.mittasch@bluebonnet.coop</u> Kenneth Roush – 512-468-5088 <u>kenneth.roush@bluebonnet.coop</u> Jose Villarreal – 512-988-1885 <u>jose.villarreal@bluebonnet.coop</u> 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 600A Standard Residential Streetlight Right-of-Way Clearing Guide Switchgear Dimensions and Installation Meter Loop Specifications (Multiple)

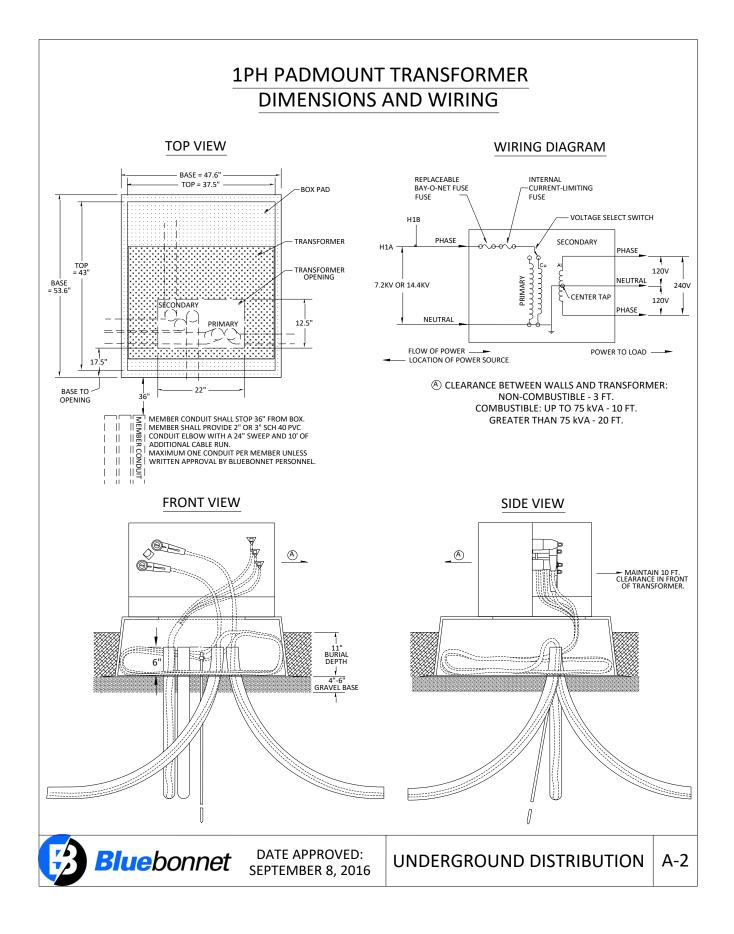
#### **Additional Notes**

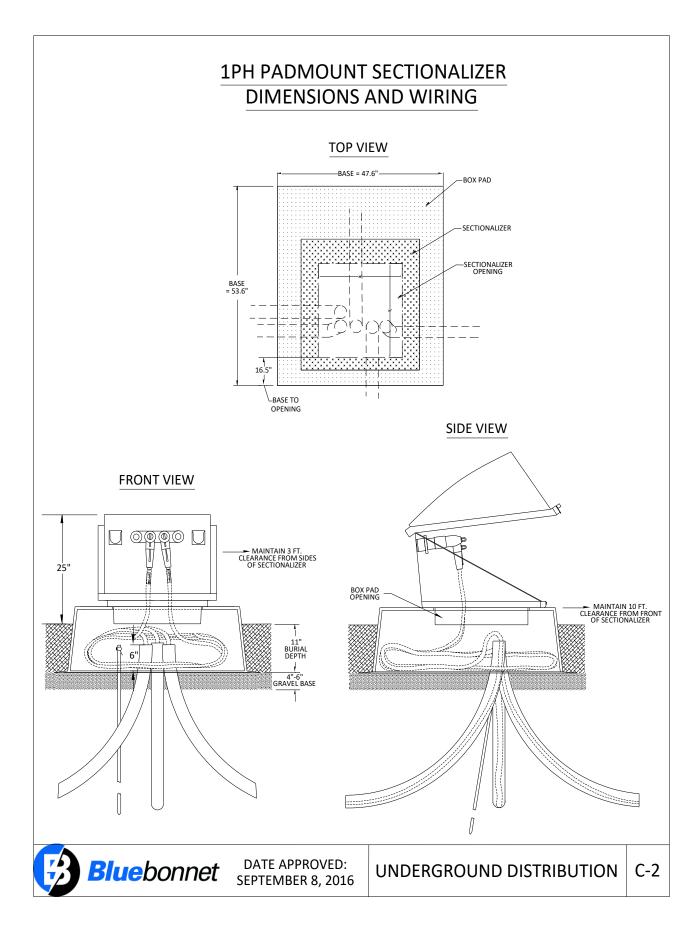
Underground electrical lines in residential developments (including apartment complexes and any commercial service) shall be looped to accommodate the ability to feed from two or more directions so that in the event of an outage the most number of customers can be provided power until the failed line or equipment is restored. Avoid looping back in the same ditch. Never loop back to the same riser pole, sectionalizing cabinet, or switchgear.

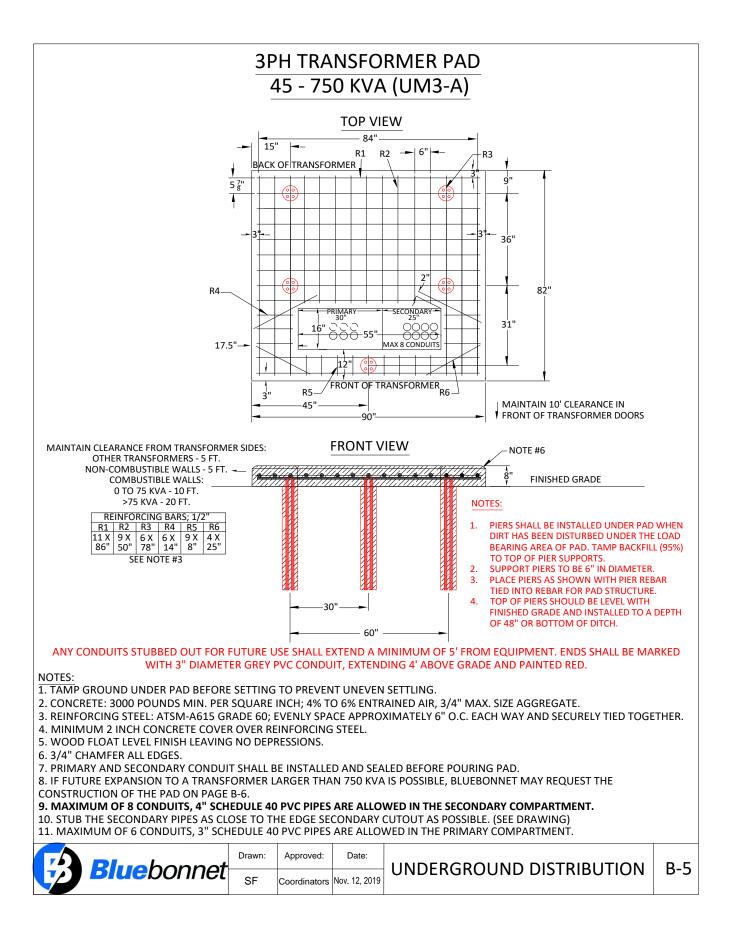


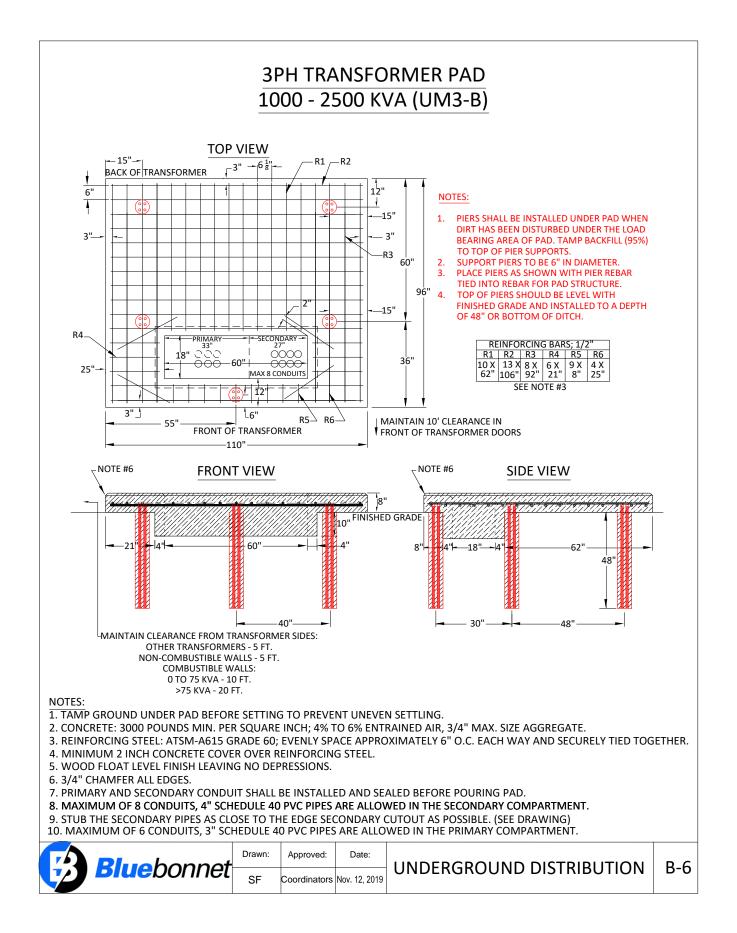


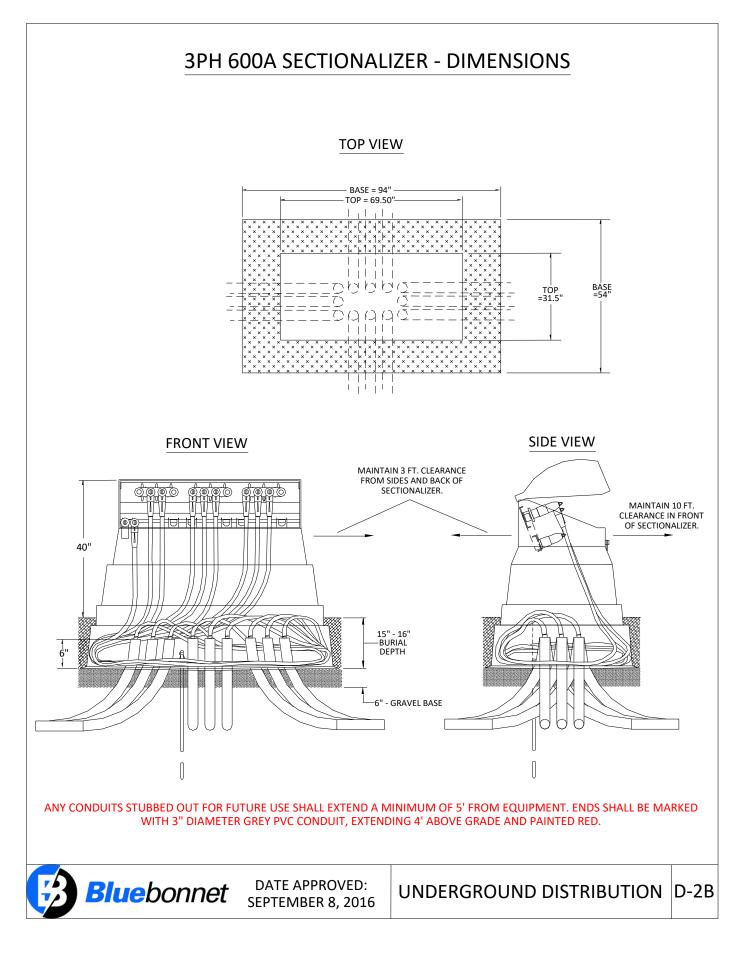


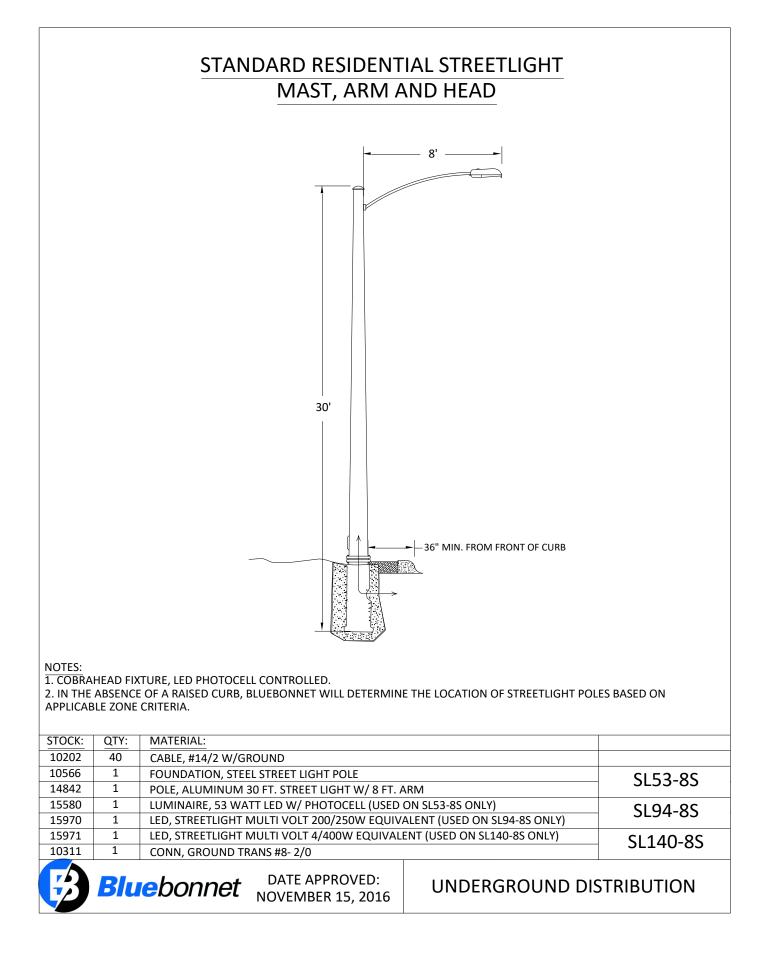


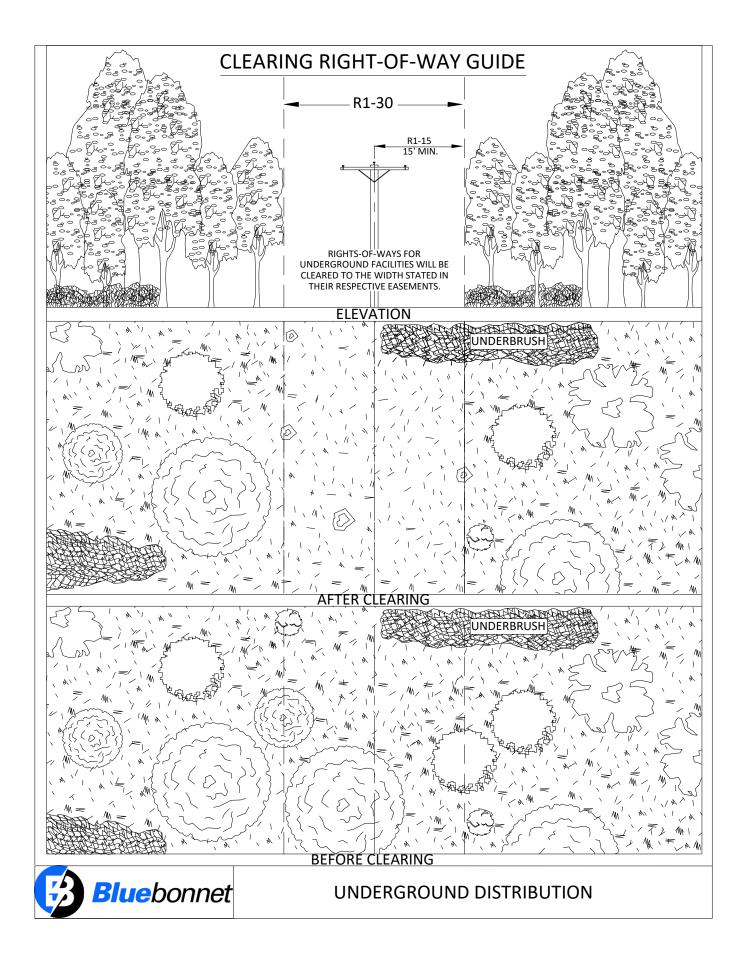


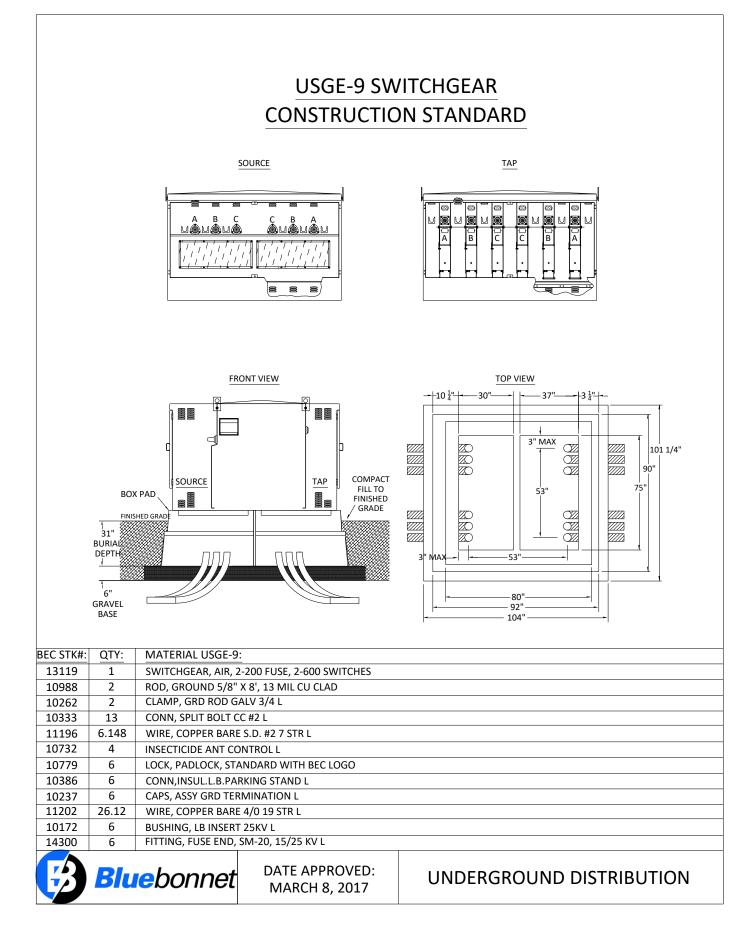


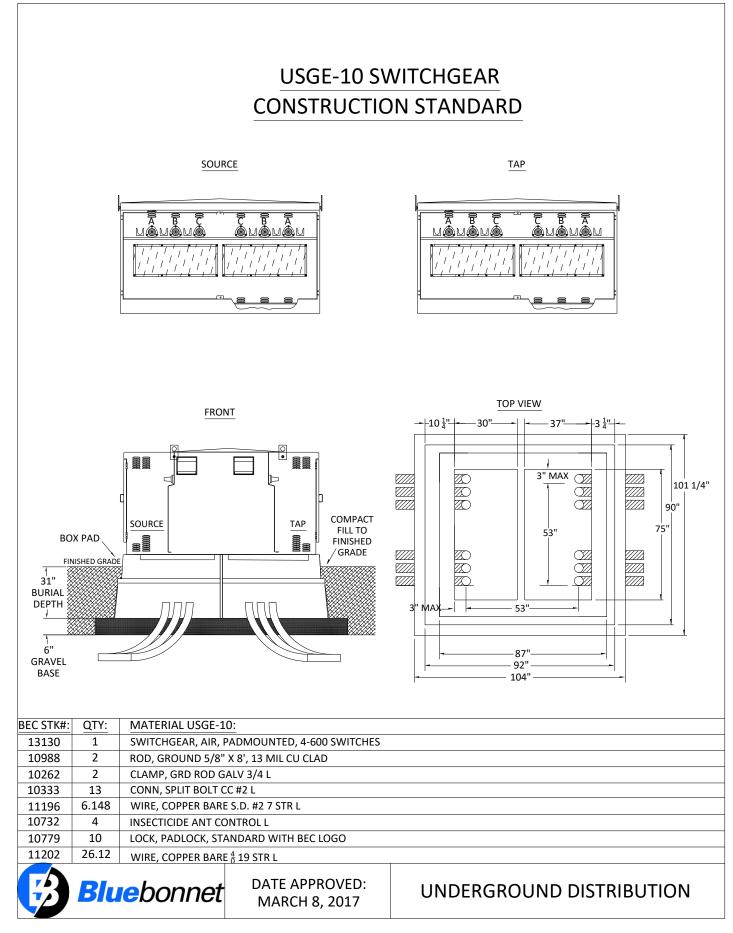


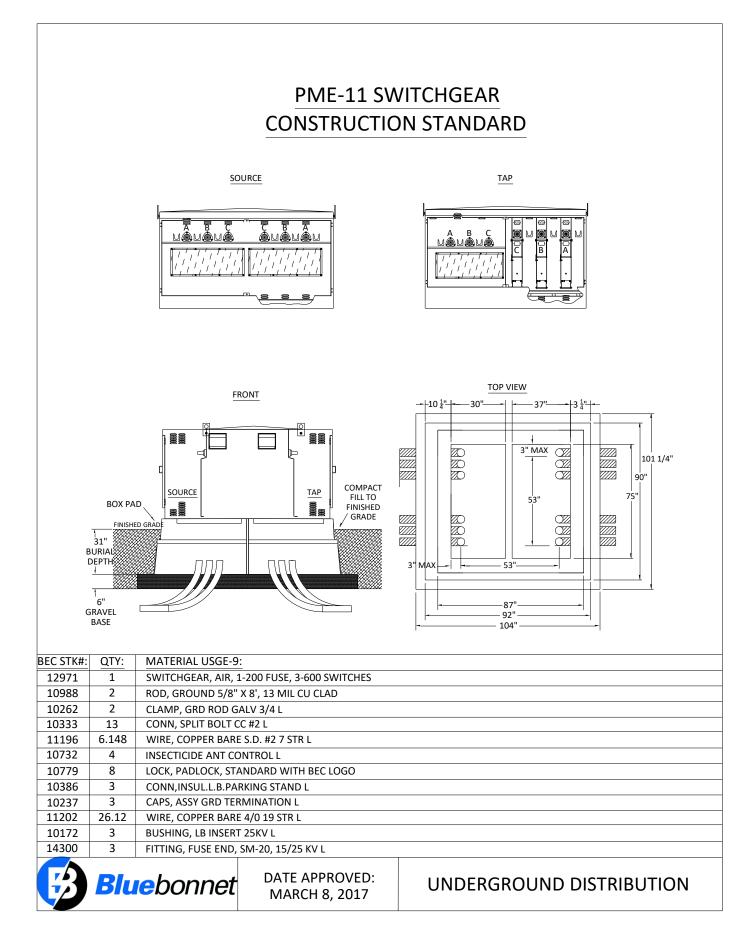


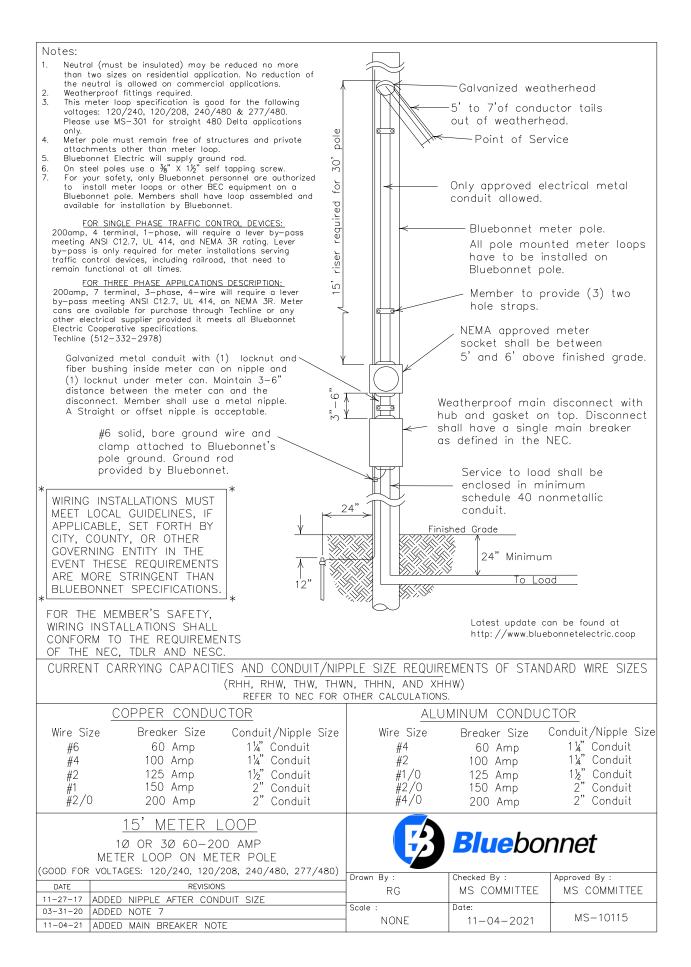


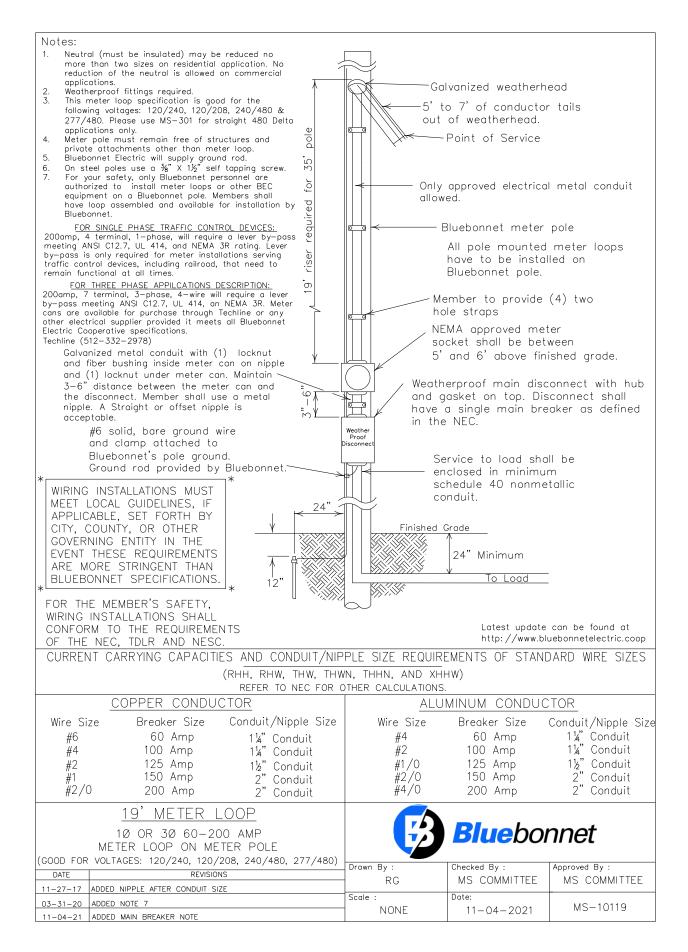


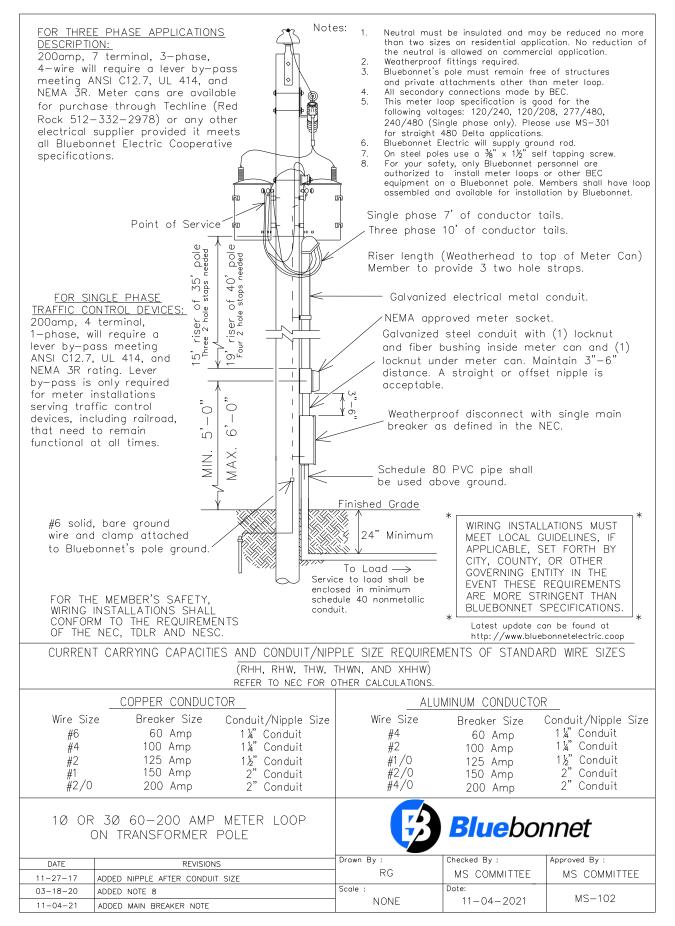


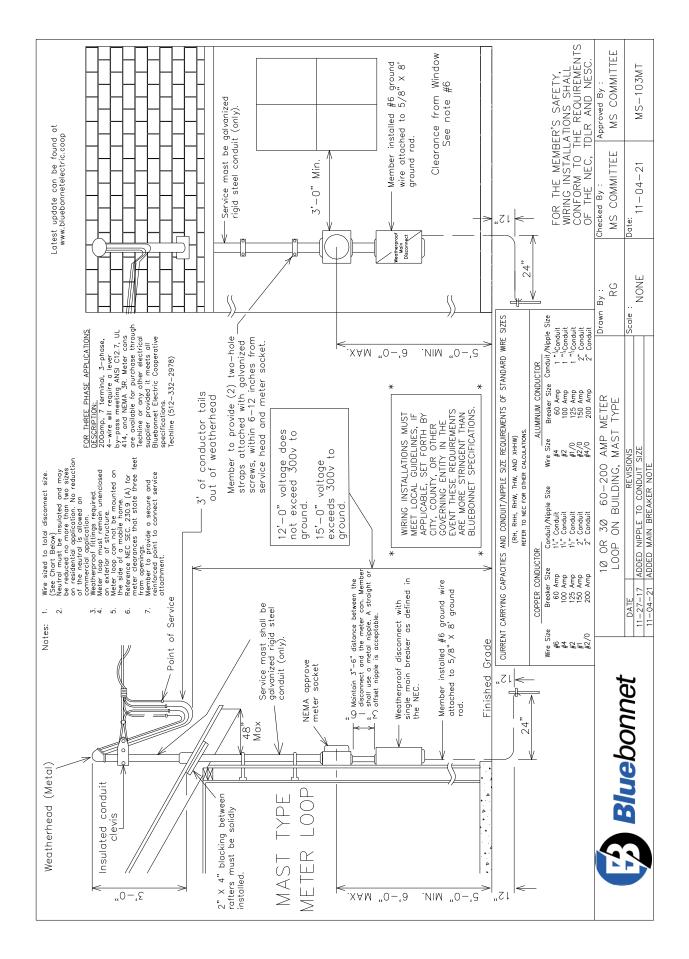


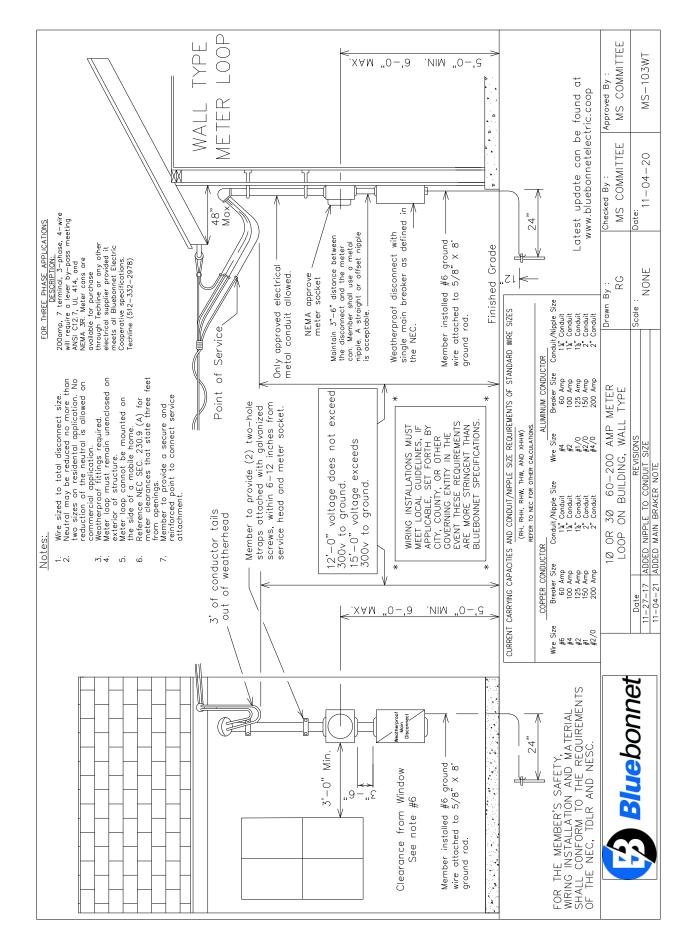


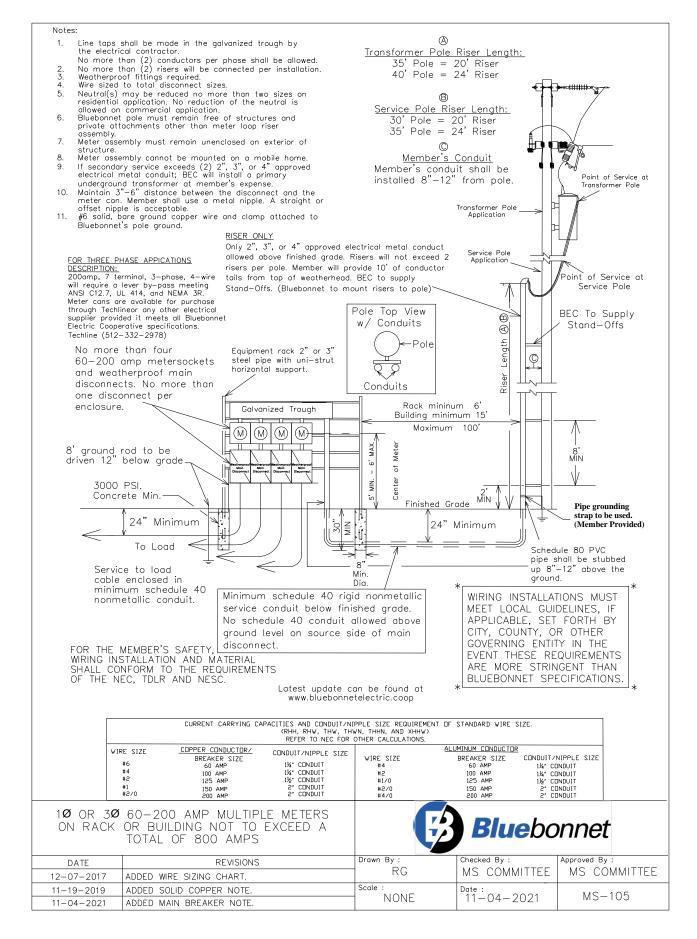


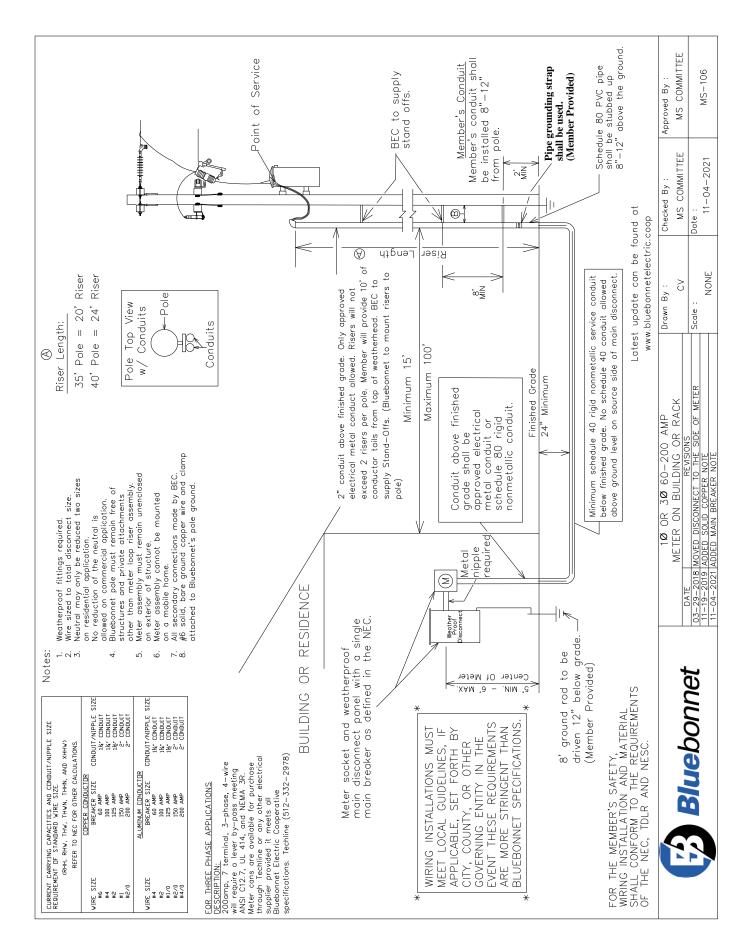












#### Notes: More than (6) main disconnects require a properly sized 8 main disconnect ahead of the galvanized trough. Line taps shall be made in the advanized wiring 1 Bluebonnet pole must remain free of structures and private trough by the electrical contractor. 9 2. Weatherproof fittings Required. attachments other than meter loop riser assembly. 3 (2) disconnects could be substituted with (1) 10 Meter assembly must remain unenclosed on exterior of disconnect. All disconnects shall have over current structure. <u>Type K-4, Bolt-in type meter can:</u> Description: 400 amp, protection installed. 11 . No more than (2) risers or (2) conductors per phase 4 terminals, 3-wire, residential/commercial socket 4. shall be allowed. single phase self-contained, large cover plate. These meter 5. Wire shall be sized to total name plate disconnect cans are available for purchase through Techline (512-332-2978) or any other electrical supplier provided it sizes. 6. Neutral(s) may be reduced no more than two sizes on meets all Bluebonnet Electric Cooperative specifications. residential application. No reduction of the neutral(s) 12. Maintain 3"-6" distance from the disconnect and the meter is allowed on commercial application. The electrical contractor will notify Bluebonnet 72 hours in advance to schedule Bluebonnet personnel to can. Member shall use a metal nipple. A straight or offset 7 nipple is acceptable. deliver the CT's before the service wire is pulled. The +|||||||= ? electrician shall install them on the rack with the correct polarity before the conductor is brought thru the 30"x42" (minimum size) CT enclosure. Call 800-842-7708 to schedule a connect. Only 2", 3", or 4" approved electrical 12-¼" × 20-¼" meter socket metal conduit allowed. Riser will not (Provided and installed by Bluebonnet) exceed 2 risers per pole. Member will provide 12' of conductor tails from top of 10 Phase (24"x30"x14" minimum size) CT enclosure can be purchased from Techline and installed by member. weatherhead. BEC to supply stand-offs. (Bluebonnet to mount risers to pole) Riser Length: 35' Pole = 20' Riser 40' Pole = 24' Riser Main Disconnect with over Point of Service current protection (Rated for Load) with a single main bool oT breaker as defined in the NEC. ₿ Lengt <u>Member's Conduit</u> Member's conduit shall be installed 8"-12" from pole To Load Main 200 amp or 200 amp or Riser Λ ≯6' ⊲ 100' Maximum distance. otherp сτ 15' Minimum (M) (м) (M) ₿ Max. Pipe grounding Meter 8' MIN Mir strap to be used. Min. – 6' Galvanized Trough of (Member Provided) ter #6 solid, bare ground wire and clamp attached to Bluebonnet's pole ground. 2' MIN Cent BUILDING ĥ Finished Grade 2'4" 8' ground rod to be -driven 12" below grade. (Member Installed) Conduit above finished Min. grade shall be minimum galvanized metal or schedule 80 Gray PVC Pole Top View Schedule 80 PVC pipe shall $\geq$ rigidnonmetallic conduit. w/ Conduits be stubbed up 8"-12" above the ground. Pole WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER Conduit below finished grade shall be minimum schedule 40 Gray PVC rigid nonmetallic conduit. **Con**'duits GOVERNING ENTITY IN THE FOR THE MEMBER'S SAFETY, WIRING INSTALLATION AND MATERIAL SHALL CONFORM EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN Latest update can be found at BLUEBONNET SPECIFICATIONS. http://www.bluebonnetelectric.coop TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC. 10 400-800 TOTAL AMPS WITH MULTIPLE METERING POINTS ON BUILDING. (RISER TYPE) **Blue**bonnet Approved By : Drawn By : Checked By : DATE REVISIONS

MS COMMITTEE

MS-114A1

Scale :

11-28-2017 Bold lettering of Pipe grounding Strap

04-19-2021 Changed the size of the CT Meter Can requirements

11-19-2019 Added Solid Copper Note.

11-04-2021 Added Main Breaker Note

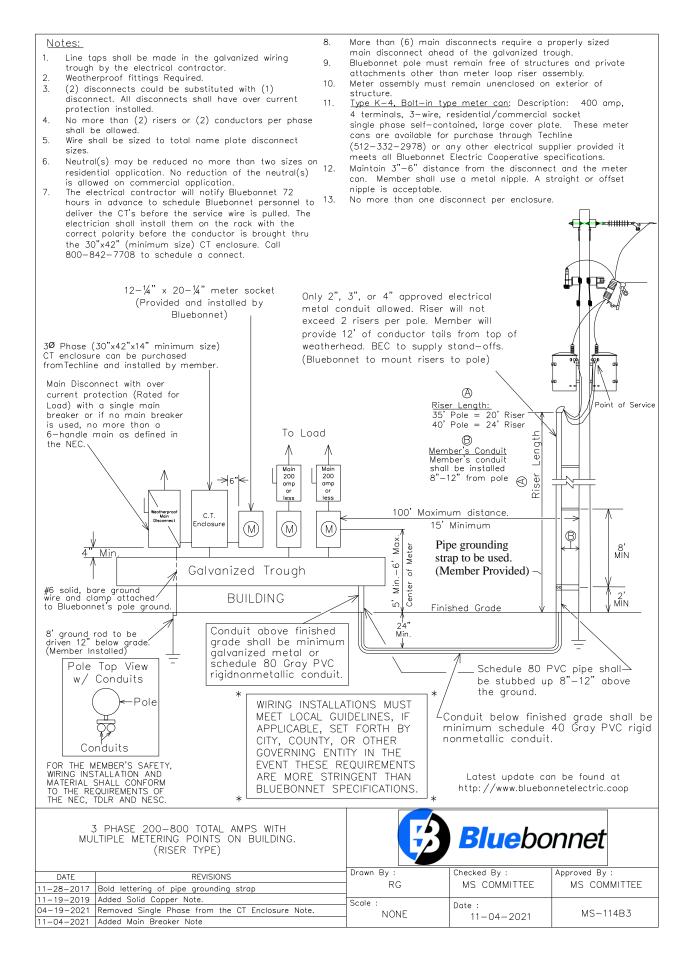
RG

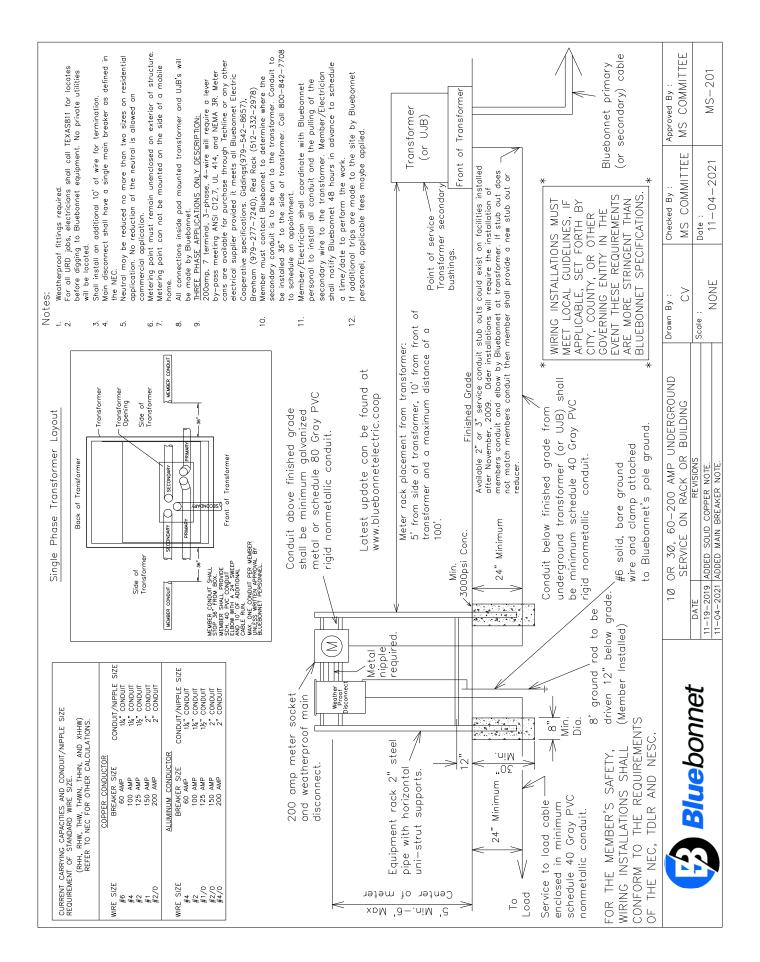
NONE

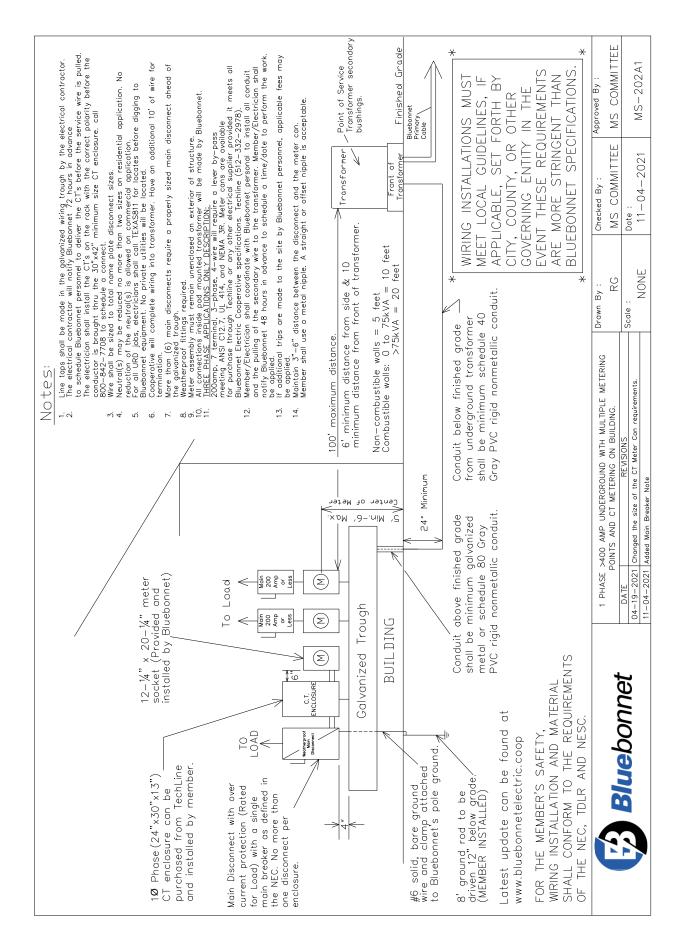
MS COMMITTEE

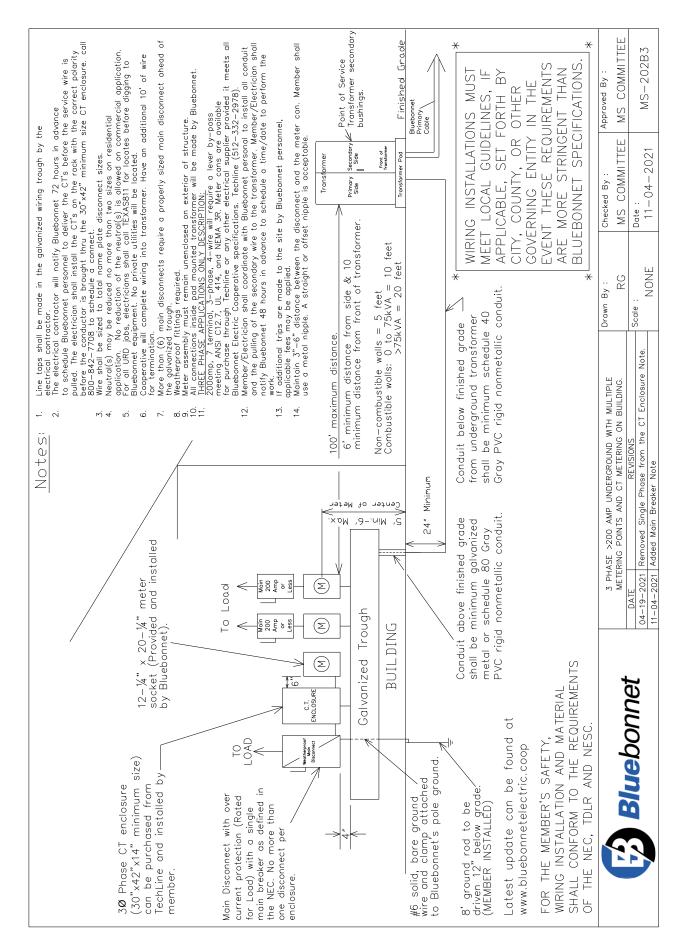
11-04-2021

Date :



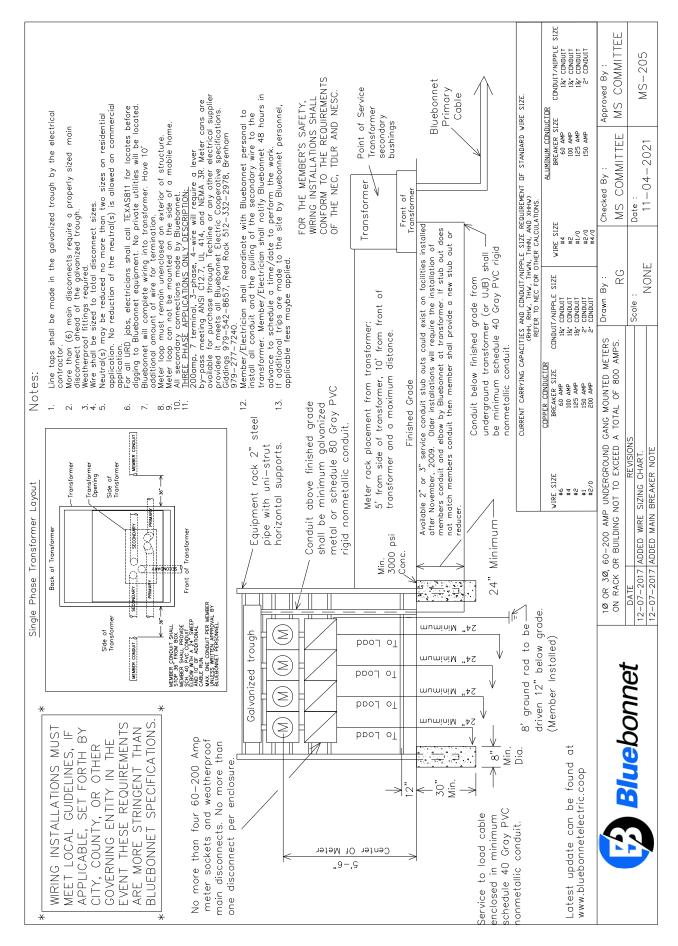




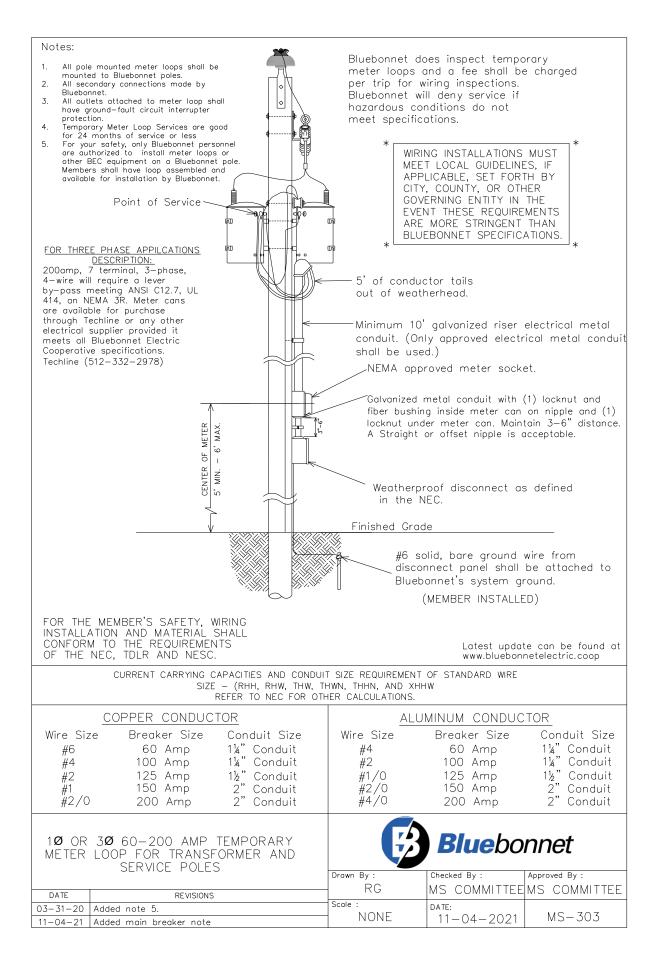


<ul> <li>Notes:</li> <li>Notes:</li> <li>1. Main disconnect panel may not be used as a electrical race way.</li> <li>2. Line tops shall be made by the electrical contractor if a galvanized wiring trough is used.</li> <li>3. Weatherproof fittings required.</li> <li>4. Any combination of six disconnects totaling no more than 400 amps can be used. REF. NEC, SEC 230.71</li> <li>5. Recommended wire size is either parallel 2/0 THHN copper or parallel 4/0 THN aluminum.</li> <li>6. Neutrals may be reduced no more than two sizes on residential applications. No reduction of the neutrals is allowed on commercial applications.</li> <li>7. Member shall install an additional of 10° wire for termination.</li> <li>8. main breaker or 6-handle main as defined in the NEC.</li> <li>9. Metering point must remain unenclosed on exterior of structure.</li> </ul>	al 11: If 13: It 13: It 13: It 13: It 13: It 14: It	ctions in transformer er cans are allowed lessest lugs. No phas losest lugs. No phas can. ct Bluebonnet to det ct Bluebonnet. Conduit to D-842-7708 to sche shall coordinate with ling of the secondary shall notify Bluebonn te to perform the we made to the site ance between the dis pulled in to the met pulled in to the met of const wire and c	are made by Bluebonnet. No <u>320 Amp</u> MeterCans are allowed. (Top or Bottom Feed) will be e conductors shall be run through th ermine where the secondary conduit be installed 36" to the side of adule an appointment. Bluebonnet personal to install all v wire to the transformer. et 48 hours in advance to ork. by Bluebonnet personnel, applicable for the number of the meter can. Member offset nipple is acceptable. and returned to Bluebonnet before th	er is the the
* 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.	Bock of Transformer Transformer Front of Transformer Front of Transformer Front of Transformer	Latest update can be found at www.bluebonnetelectric.coop Landis & Gyr. Type K-4. Description: 400 amp, 4 terminals, 3 w Landis & Gyr. Type K-4. Description: 400 amp, 4 terminals, 3 w residential/commercial socket single phase self-contained, large coverplate. The meter lugs can accommadate up to 500 MGM. meter cans are available for purchase through Technine or any o electrical supplier provided it meets all Bluebonnet Electric Coope specifications. Technine phone numbers; Red Rock (512-332-29 Metal nipple Weatherproof Dis required. No more than o disconnect per e	Latest update can be found at www.bluebonnetelectric.coop Landis & <u>Gyr. Type K-4</u> , Description: 400 amp. 4 terminals, 3 wire, <u>Landis &amp; <u>Gyr. Type K-4</u>, Description: 400 amp. 4 terminals, 3 wire, <u>Landis &amp; <u>Gyr. Type K-4</u>, Description: 400 amp. 4 terminals, 3 wire, <u>Landis &amp; <u>Gyr. Type K-4</u>, Description: 400 amp. 4 terminals, 3 wire, <u>cesidential/contained</u>, large <u>cesidential/contained</u>, large <u>ceside</u></u></u></u>	e e nect(s). ssure
Point of Service fransformer secondary	Single Phase Transformer Layout Meter rack placement from transformer: 5 from side of transformer and 10 front of transformer. Maximum distance 100'. Finished Grade	2,MID: - E,MOX	Equipment rack 2" pipe with uni-struct horizontal support. 3000psi Conc. Min.	2" steel trut ort.
	24" Jimum 3" Conduit below finished grade from underground — transformer to meter shall be minimum schedule 40 Gray PVC rigid nonmetallic conduit.		24" Minimum 11 24" Minimum 25 Service to load cable enclosed in minimum	cable
FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.	3" Conduit above finished grade to meter shall be minimum galvanized metal or schedule 80 Gray PVC rigid nonmetallic conduit.	shall 80	D)	Gray PVC conduit.
Bluebonnet	10 400 AMP URD SERVICE ON RACK OR BUILDING WITH K BASE BOLTED IN METER SOCKET       DATE     REVISIONS       11-20-19     Added Solid Copper Note.       11-04-21     Added Main Breaker Note	AULLDING Drawn By : RE RG Scole : NONE	Checked By : MS COMMITTEE MS COMM Date : 11-04-2021 MS-2	ed By : COMMITTEE MS-203

noll be made in the galvanized trough by t f fittings required. ects could be substituted with (1) disconn- ver current protection. a sized to total disconnect sizes. noy be reduced no more than two sizes or No reduction of the neutral(s) is allowed of No reduction of the neutral(s) is allowed of Total to be installed 36° to the si 708 to schedule an appointment. Mill complete wiring into transformer. Have mination. Member shall install an additional	* * *	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.	ALLATIONS MUST GUIDELINES, IF SET FORTH BY Y, OR OTHER INTITY IN THE IREQUIREMENTS TRINGENT THAN SPECIFICATIONS.	
termination. 8. All secondary connections to be made inside transformer by Bluebonnet. 9. Bluebonnet to provide the CT's. 10. Metre assembly must remain unenclosed on exterior of structure. 11. Member/Electrician shall coordinate with Bluebonnet personal to install all conduit and the pulling of the secondary wire to the transformer.	ner by Bluebonnet. f structure. ersonal to install all transformer.	F OF WIR SH/I	FOR THE MEMBER'S SAFETY, WRING INSTALLATION AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.	FETY, ND MATERIAL E REQUIREMENTS ) NESC.
notify bluebonnet 40 hours in the work. Inde to the site by Bluebonnet between the disconnect and th between the disconnect and th A straight or offset nipple is	aavance to screaure personnel, applicable ne meter can. Member acceptable. Non-combustible walls = 5 feet	feet - 10 600t	Three phase application, the CT's & meter can are located on/in the transformer.	an are located former.
Equipment rack 2" or 3" steel pipe with uni-strut horizontal supports.	>75kVA >75kVA er: 6' from 0' maximur	= 20 feet = 20 feet i side of transformer, n distance.	Trans	Transformer
current protection (Rated Memory of	Conduit above finished grade shall be minimum govonized metal or schedule 80 Gray PVC rigid nonmetallic conduit.		Primary Sec. Side Side Fro	Secondary Side Point of Service Transformer secondary Frant of bushings
Min. 3000 psi Concrete	「小・ 小・ 「 1000000000000000000000000000000000000		Transformer Pad	
o load cable in minimum 40 Gray PVC #6 solid, bare ground lic conduit. wire and clamp attached to Bluebonnet's pole ground.	8' ground rod to be Conduit below finished grade from driven 12" below grade minimum schedule 40 rigid (Member Installed)	de from	Bluebonnet Primary Cable	net 🔰
	www.bluebonnetelectric.coop			
Bluebonnet	3 PHASE     >200 AMP UNDERGROUND     T       SERVICE WITH DISCONNECT ON RACK OR BUILDING     D       DATE     REVISIONS       11-20-19     Added Solid Copper Note.       11-04-21     Added Main Breaker Note	Drawn By : RG Scale : NONE	Checked By : MS COMMITTEE Date : 11-04-2021	Approved By : MS COMMITTEE MS-204A3



<ul> <li>shall meet</li> <li>S. Bluebonnet does inspect temporary meter</li> <li>to meter loop</li> <li>wiring inspection. Bluebonnet will refuse</li> <li>ault circuit</li> <li>service if hazordous conditions exist and/or</li> <li>f connections do not meet specifications.</li> <li>ectricians shall</li> <li>6. Bluebonnet will complete wiring into transformer</li> <li>connections do not meet specifications.</li> <li>ecties before</li> <li>of wire for termination.</li> <li>8. Temporary Meter Loop Services are good for up</li> <li>8. Temporary Meter Loop Services are good for up</li> <li>9. 24 months of service or less.</li> </ul>	Weatherproof disconnect as defined in the NEC. Base Conductor of the main Minimum 3' and Maximum 5' Any source side conductor of the main Any source side conductor of the main Any source side conductor of the main Base Base Base Base Base Base Base Base Base Base Base Base Base Base Base Conductor of the main Minimum 5' Any source side conductor of the main Base	CURRENT CARRYING CAPACITIES AND CONDUIT/NIPPLE SIZE REQUIREMENT OF STANDARD WRE SIZE (RHH, RHW, THW, THW, THM, AND XHHW)         COPPER TO NEC FOR OTHER CALCULATIONS.         COPPER CONDUCTOR         WRE       SIZE       BREAKER SIZE       CONDUIT       #4       60 AMP       1½"       CONDUIT       %1       0       200 AMP       1½"       100 AMP       1½"       100 AMP       1½"       100 AMP       1½"       200 DUIT       #1/0       125 AMP       1%2"       200 DUIT         #1       150 AMP       2"       200 AMP       2"       200 AMP       2"       2"       200 DUIT	Indt     Drawn By :     Checked By :     Approved By :       03-29-2018     ADDED     ADDITIONAL     METER     Scole :       03-29-2018     ADDED     ADDITIONAL     Scole :     NONE
Notes: 1. All temporary wiring shall meet national electrical code standards. 2. All outlets attached to meter loop shall have ground-fault circuit interrupter protection. 3. For all URD jobs, electricians shall call TEXASBI1 for locates before digging to Bluebonnet equipment. No private utilities will be located 4. Service wires shall be brought to the top side of the meter base.	#achter Metal Nipple Metal Nipple Metal Nipple Metal Nipple Metal Nipple Metal Nipple Metal Nipple Metal Nipple Metal	FOR MEMBER SAFETY, WIRING INSTALLATION AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC. Latest update can be found at www.bluebonnetelectric.coop	Bluebonnet



## **Material Standards:**



Underground warning tape must be 6" width, RED in color with BLACK lettering, and read "Caution Buried Electric Underground". \*Normally, this material is only sold in 1000' rolls.\*