

Welcome to Bluebonnet Electric Cooperative

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

Bluebonnet serves all or part of 14 counties, covers over 3,800 square miles and serves more than 100,000 meters. Bluebonnet operates five retail centers: Bastrop, Brenham, Lockhart, Giddings and Manor. Bluebonnet is one of the largest electric cooperatives in Texas. A distribution cooperative, Bluebonnet purchases most of its power wholesale from the LCRA. Bluebonnet operates and maintains approximately 12,000 miles of distribution lines. Bluebonnet owns 20 substations and purchases power at 21 additional substations owned by the 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 the distribution system of Bluebonnet.

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.

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

Bluebonnet Project Coordination Staff

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Meter Specifications

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Bluebonnet Electric Cooperative, Inc. Detailed Commercial Load Data

(Anything other than Residential)

Bluebonnet Electric Cooperative, Inc. 3198 E. Austin Street Giddings, TX 78942 Phone: (800)-842-7708 Fax: (979)-542-4150

BP #			W	0.	#			
Emai	1 Address:							
Appli	icant Name:		Ph	one	No:			
Servi	ce Address:		Da	te:				
Elect	rician/Engineer:		Ph	one	No:			
<u>REQ</u>	UESTED ELECTRICAL	SERVICE BUSINESS 1	YP	<u>E:</u>				
[MARY] Overhead] Underground ONDARY VOLTAGE			<u>SE</u> [] Over	RY SERVI Thead erground	<u>CE</u>	
	1 120/240 - 1ø 3 Wire		[T	2/0//80	- 1ø 3 Wire		
	-	(Service is limited to (3) 100 kVA transformers on the pole).	L [-		- 3ø 4 Wire	Wye (Servic	e is limited to ners on the pole).
[] 120/240 - 3ø 4 WIRE DEL	.TA (O/H banks only)	[]	480 - 3ø	3 WIRE D	-	I banks only, er Grounded)
	le phase transformers are li nt transformer for undergr	mited to (1) 100 kVA transfo ound service.	orm	er f	or an ovei	rhead servi	ce & (1) 16	7 kVA pad
MAI	<u>N DISCONNECT</u> (AMPER	ES) New			Existing	g (If Any)		
Total	connected load in Amps.							
SEC	ONDARY SERVICE ENT	FRANCE CONDUIT						
			Qu	ant	ity			
FUS Resi	<mark>E/BREAKER installed.</mark> dential service may down	Γ be sized to accommodate a size their neutral 2 sizes.						or
Com	imercial service MUST p	ull in a full size neutral wl	neth	er i	t will be	used or no	ot.	



SECONDARY SERVICE ENTRANCE CONDUCTORS

Copper Wire Alumin	um Wire				
Wire Size	Quantity	per phase including the neutral.			
BUILDING SIZE	SQ.FT.				
HOURS OF OPERATION	DAYS OF TH	E WEEK			
HEAT and AIR CONDITIONING					
Electric Heat (total)	(kW)	(Amps)			
A/C (total)	(kW)	(Amps)			
Geothermal (motor size)	(kW)	(Amps)			
_	(FLA - Full Load Amps)				
-	(LRA - Locked	l Rotor Amps)			
TOTAL LIGHTING LOAD	(kW)	(Amps)			

MOTORS (Other Than Air Conditioning)

Motors or motor loads totaling more than 25 HP, may require soft starters or VFD's and/or 3 Phase Service. VFD's will require appropriate filtering. Please Contact Bluebonnet Electric's Engineering Department for further information.

1ø Motor(s)

Total 1ø Motor		HP		_(Amps)
	HP		_Quantity	 (Amps)
	HP		_Quantity	 (Amps)
	HP		_Quantity	 (Amps)
	HP		_Quantity	 (Amps)
	HP		_Quantity	 (Amps)



3ø Motor(s)

	HP		Quantity		(Amps)
	HP		Quantity		(Amps)
	HP		Quantity		(Amps)
	HP		Quantity		(Amps)
	HP		Quantity		(Amps)
Total 3ø Motor		HP		(Am	ps)
Itemized Amp Load					
<u>Load</u> 1		<u>Quantity</u>		Amps	<u>kW</u>
2					
3					
4					
5					
Total Itemized Load			(Amps)		(kW
Total Load on Syster	<u>n</u>				
Heating Load		(Amps)		(kW)
A/C Load		(Amps)		(kW))
Lighting Load		(Amps)		(kW)
Motor Load		(Amps)		(kW)
Itemized Load		(Amps)		(kW)
Total Load		(Amps)		(kW)
AUTHORIZED ELEC	CTRICAN'S S	IGNATURE			
PRINT NAME:			LIC	CENSE #	
DATE:		PHC	DNE #		

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 of \$50/hr. could be required either prior to or following the design process. 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 locations per Bluebonnet Crossing Plans, and if applicable, all electrical conduits in designated locations per Bluebonnet Construction Plans. See Bluebonnet Specifications. **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 8).
- □ Property pins must be set and clearly visible at all property corners, at developer's expense, prior to Bluebonnet commencing construction.
- Developer is responsible for submitting contribution-in-aid of construction (CIAC) to cover Bluebonnet's construction costs prior to Bluebonnet commencing construction. Bluebonnet 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 (\$10.00 per linear foot). See Bluebonnet Specifications.
- □ Developer is responsible for ensuring conduit contractor and/or subcontractor adherence to all Bluebonnet Construction Specifications at all times.
- □ Developer is 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 \$50/hr. could be required either prior to or following the design process. 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 initial requests 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 enclosed Member Handbook or on the "Residential Development" link on our website at www.bluebonnetelectric.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, then 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.

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.

- 1. Bluebonnet shall be granted, at no cost and in writing suitable for recording, all rights-ofway 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. A signed easement granted to Bluebonnet will be required before construction will commence. Once Bluebonnet facilities are installed, the easement will adhere to the facilities, from the installation point with a 15 foot easement on each side of the centerline (30 feet of easement) of overhead facilities and 20 foot easement (10 feet on each side of the centerline), for underground facilities.
- 3. Only Bluebonnet equipment or material is allowed to be attached to Bluebonnet property, except where said equipment and/or materials is required to provide electrical service and said equipment and/or material has been authorized by Bluebonnet.
- 4. Please note that Bluebonnet facilities must be installed in easements that are exclusive to Bluebonnet with no other utilities being allowed in these easements except for buried crossings.

Location of Facilities

All overhead or underground distribution lines and equipment will be located in an area that is easily accessible by Bluebonnet vehicles and personnel.

Developer Installed Conduit Guidelines and Procedures

- 1. Developer will review Bluebonnet's construction specifications prior to trenching and conduit installation (specifications included in this document). Developer is encouraged to contact Bluebonnet inspector listed in #3 below with any questions.
- 2. Developer must provide and install all underground material in the designated locations per Bluebonnet's design. Bluebonnet will provide and install the associated hardware such as sectionalizers and transformers that will be located above ground.
- 3. Developer will contact the Bluebonnet Project Coordinator when conduit and stub-ups are installed prior to filling the ditch (open ditch inspection). Bluebonnet will respond within 48 hours of notification. Please choose from the list of Bluebonnet Project Coordinators to schedule an inspection.
 - Project Coordinator Rodney Gerik, may be reached at (979) 540-8814 (cell), or at rodney.gerik@bluebonnet.coop.
 - Project Coordinator Shawn Ely, may be reached at (979) 540-7361 (cell), or at shawn.ely@bluebonnet.coop.
 - Project Coordinator Bill Scoggins, may be reached at (979) 716-7038 (cell), or at bill.scoggins@bluebonnet.coop.
 - Project Coordinator Shane Mathison, may be reached at (979) 542-8540, or at <u>shane.mathison@bluebonnet.coop</u>.
 - Project Coordinator Jorge Varillas, may be reached at (512) 764-2838, or at Jorge.Varillas@bluebonnet.coop.
 - Project Coordinator Scott Iselt, may be reached at (979) 542-8522, or at <u>Scott.Iselt@bluebonnet.coop</u>.
 - Project Coordinator Wyatt Rosenauer, may be reached at (512) 332-8665, or at Wyatt.Rosenauer@bluebonnet.coop.
- 4. Trenches will remain open until inspected and approved by the Bluebonnet inspector. Upon inspection, developer will be advised as to what may or may not be backfilled.
- 5. 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.
- 5. Equipment location and conduit stubs must meet clearance requirements on all sides as outlined in Bluebonnet Specifications.
- 6. 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.)

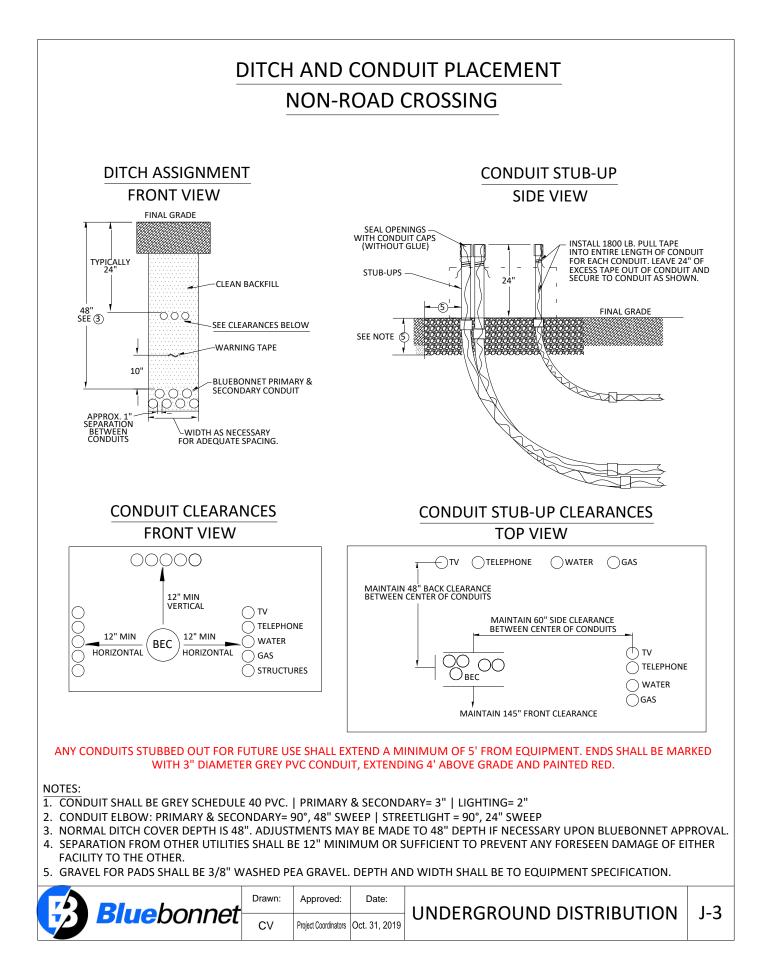
Developer's Checklist

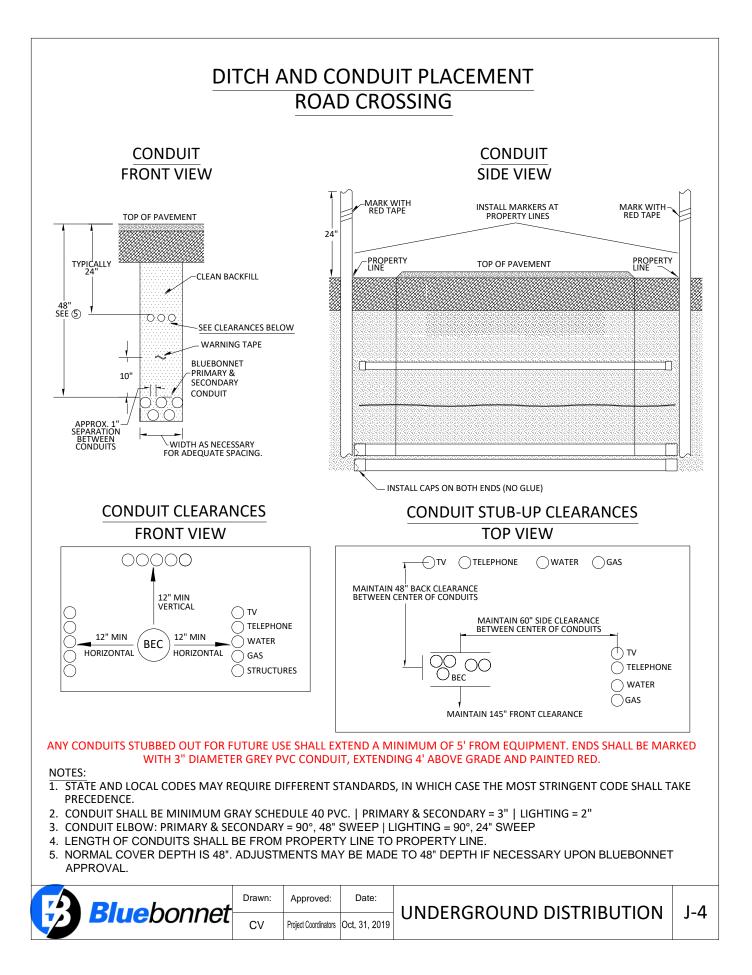
Responsibility of Developer:

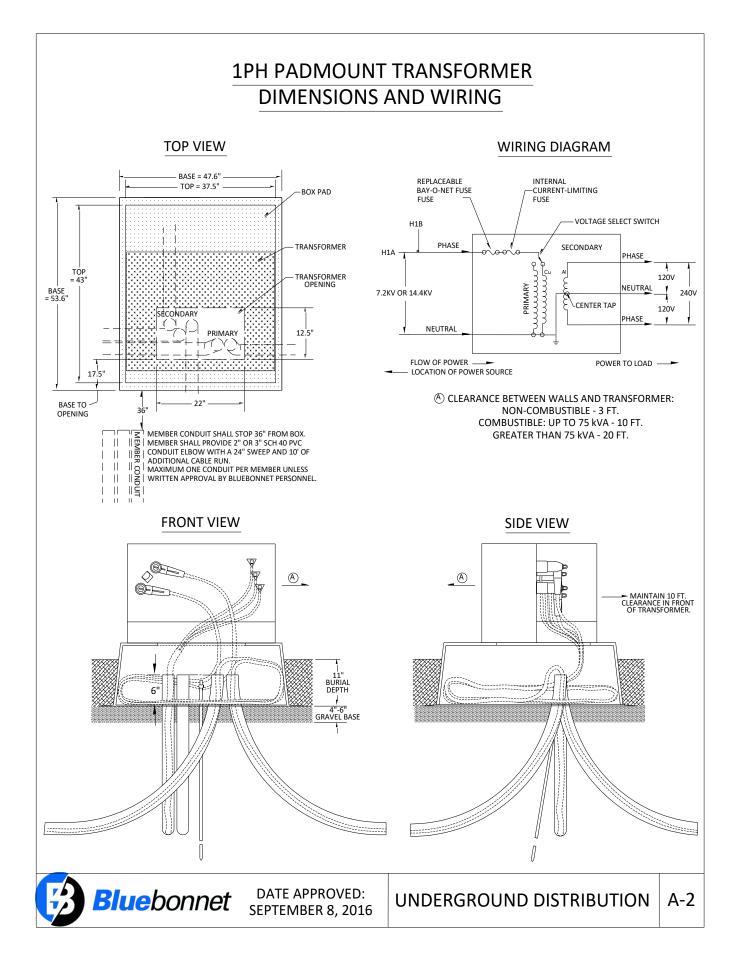
- Developer is responsible for confirming all easement requirements with Bluebonnet prior to installation.
- □ Developer is responsible for following Bluebonnet's inspection policies and procedures prior to and during conduit installation.
- Developer is responsible for all right-of-way clearing or grubbing to Bluebonnet's specifications.
- Developer is responsible for adherence to all Bluebonnet's Construction Specifications.

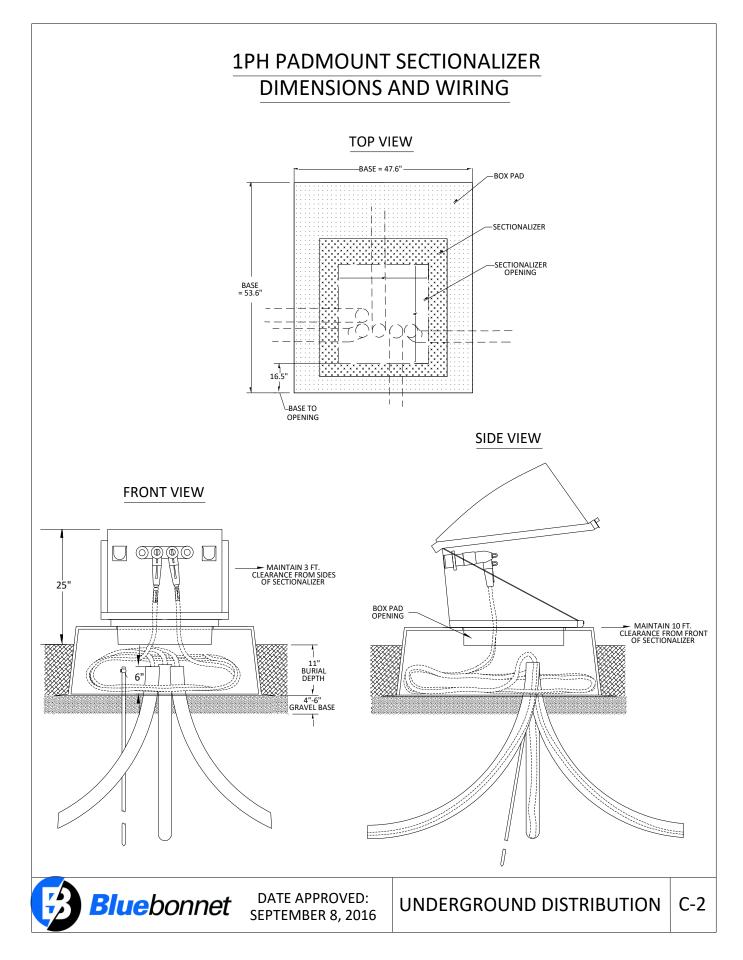
Developer's Fees and Information

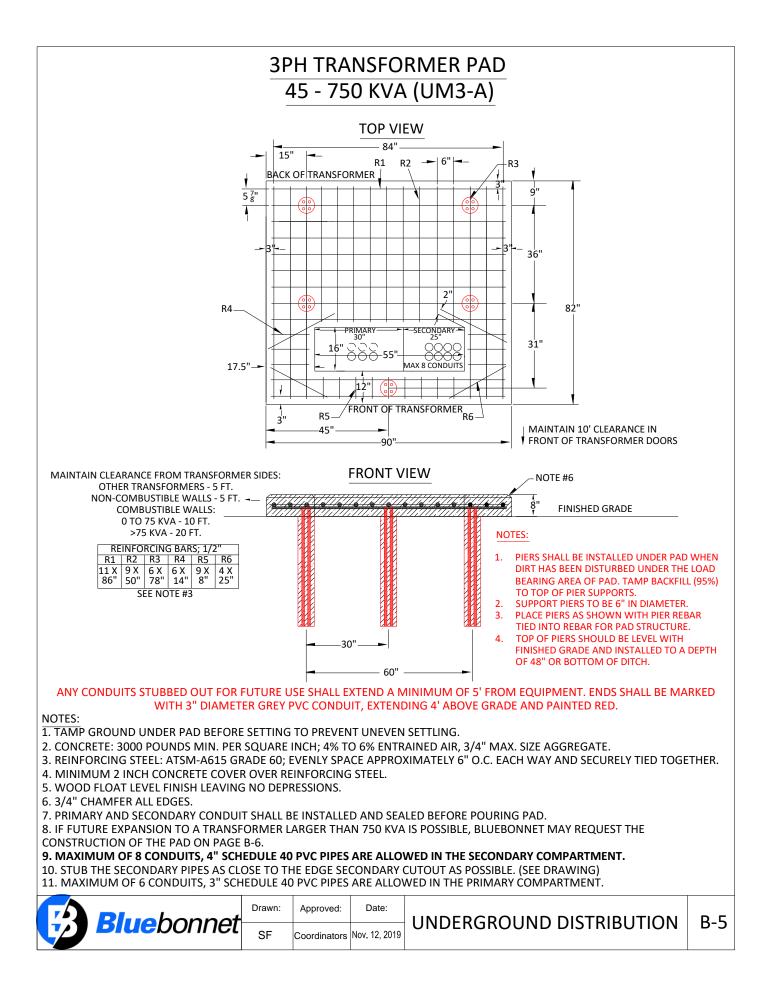
- 1. Every request for alteration to initial requests for design services are subject to additional fees to be determined by Bluebonnet.
- 2. Bluebonnet's Line Extension Policy can be found in the Member Handbook.
- 3. A maintenance fee of \$1 per linear foot of trench will be required at the time of contribution by the member to cover the cost of any necessary repairs in the first year following the completion of Bluebonnet's underground facilities installation.
- 4. Cost estimate given to developer will be good for **60** days.

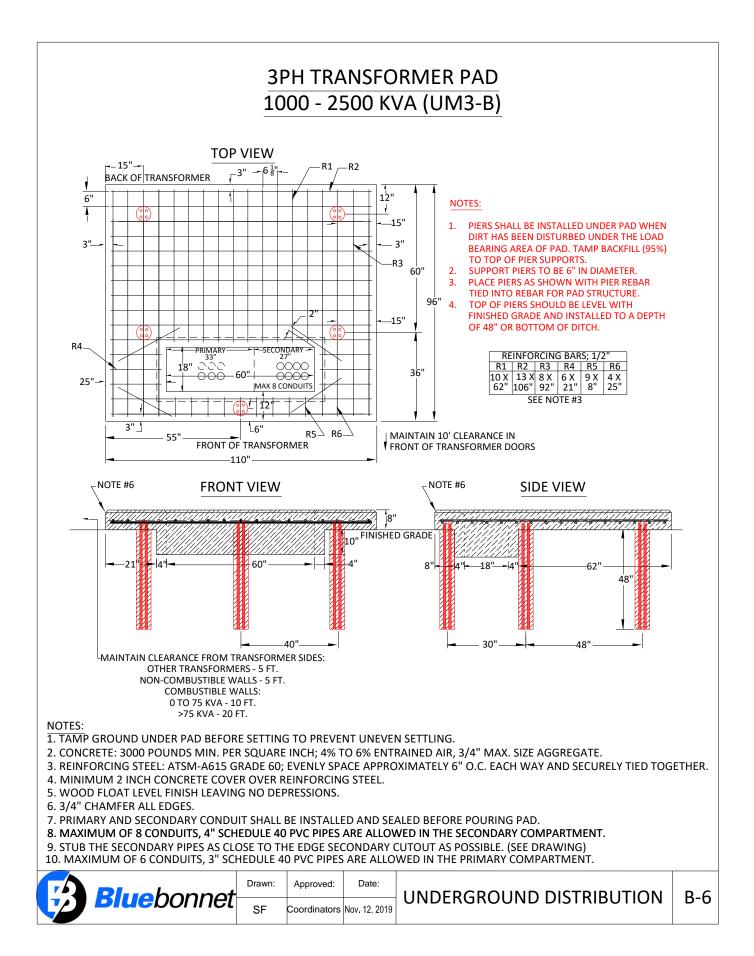


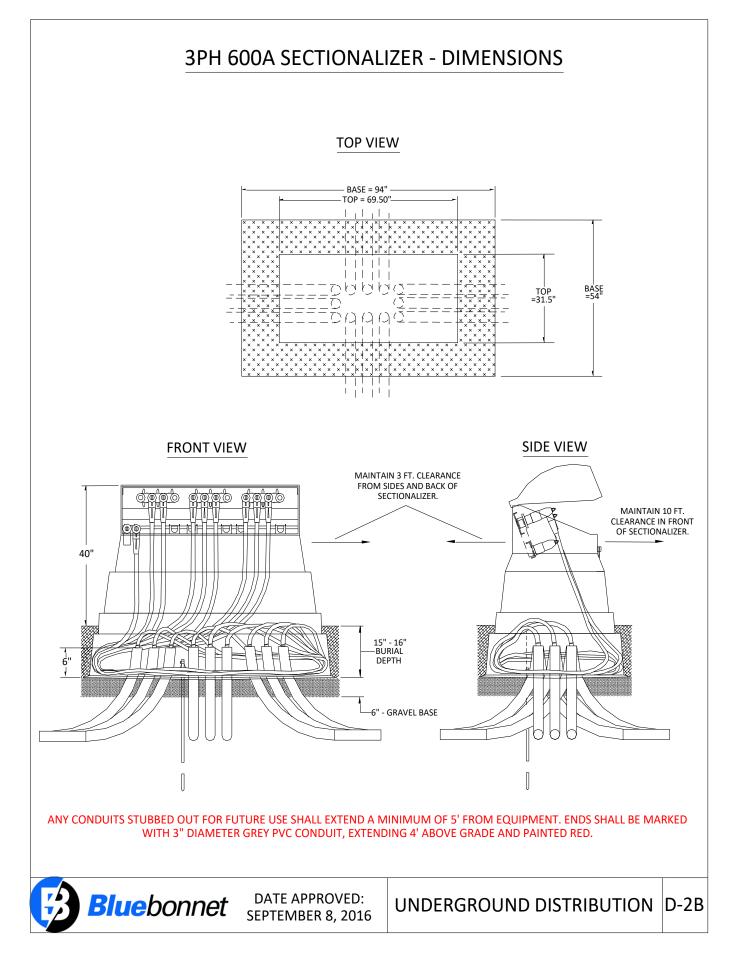


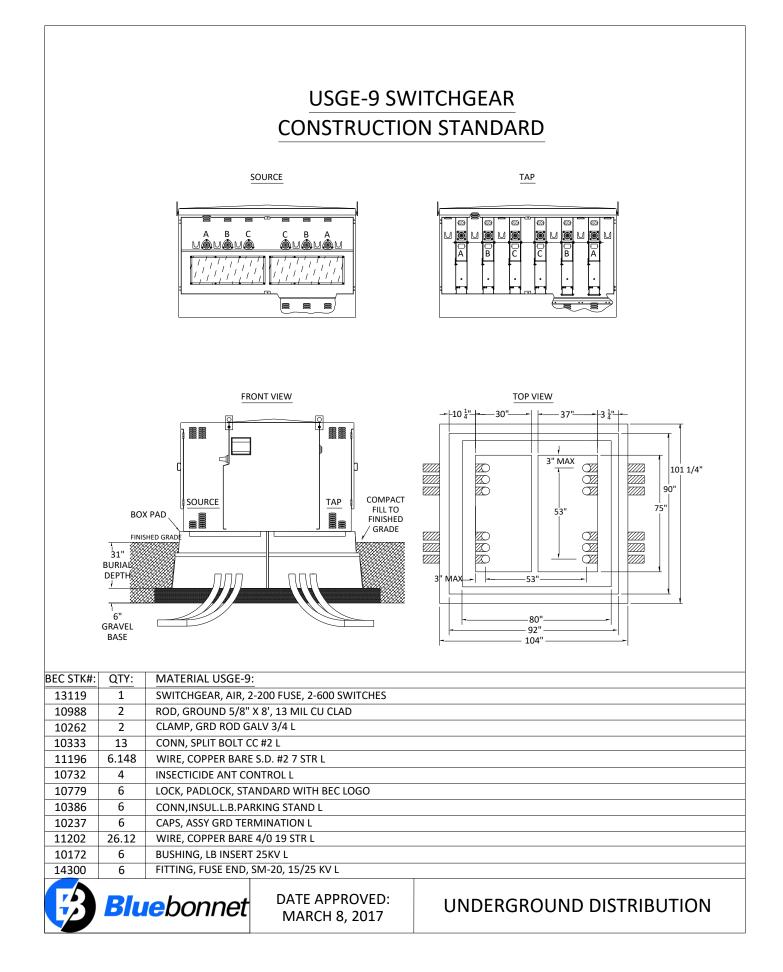


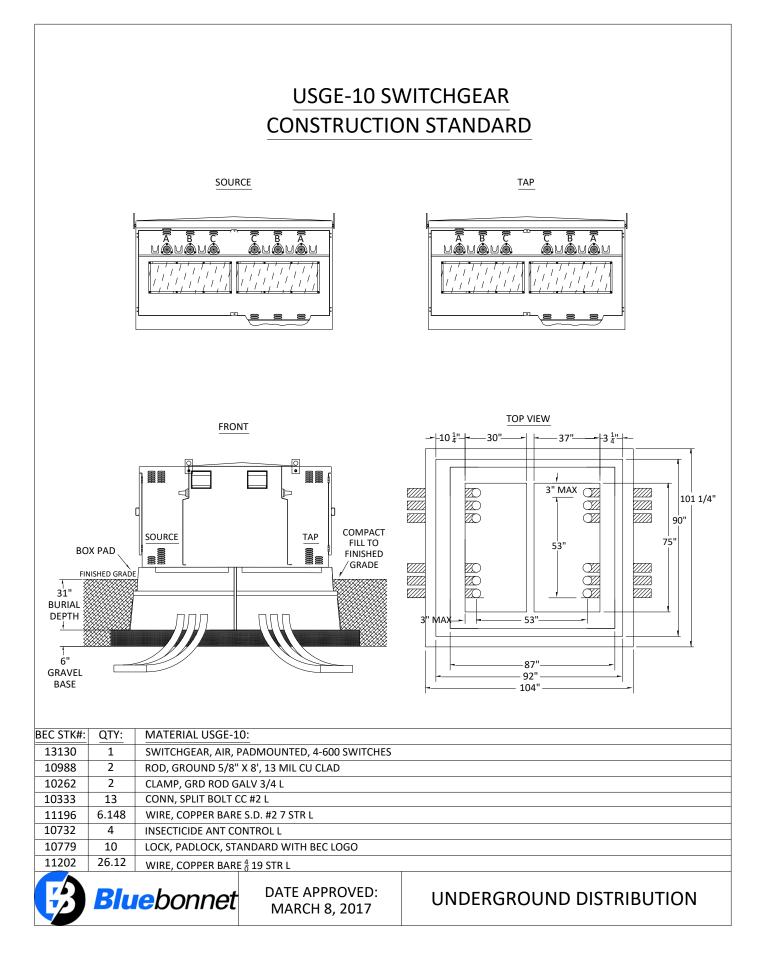




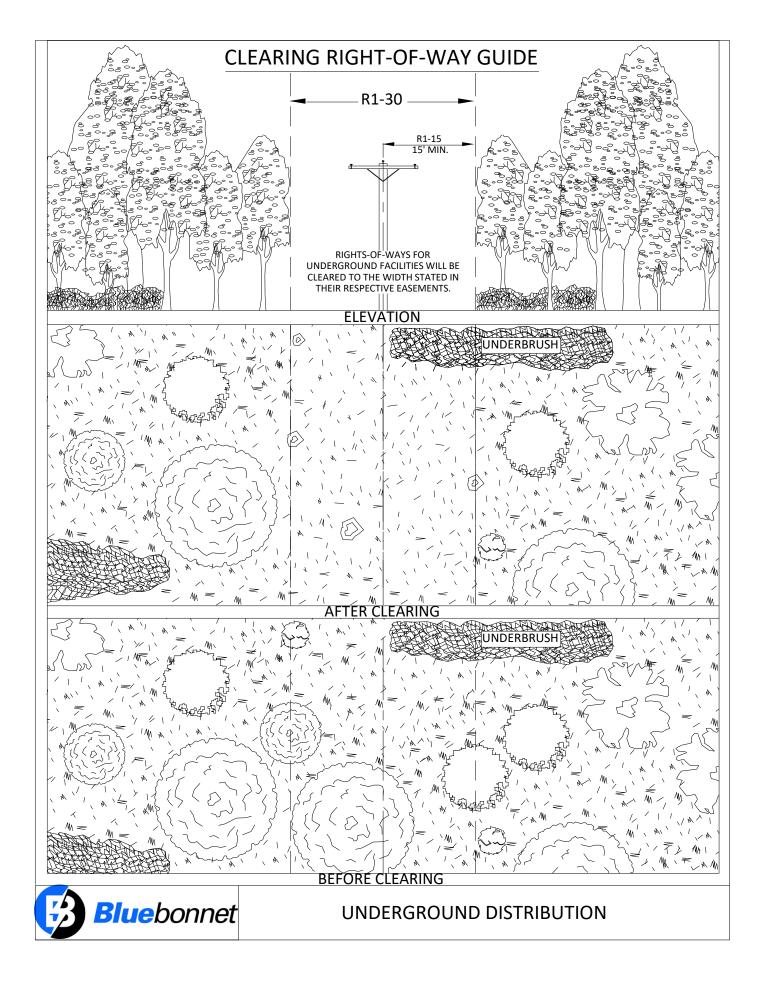


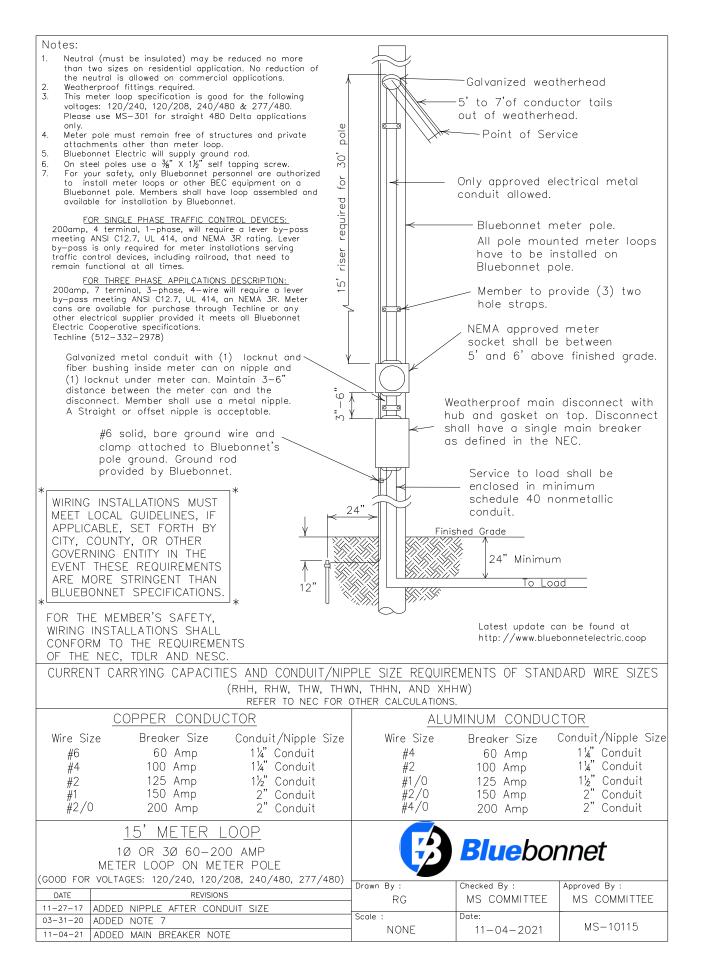






			WITCHGEAR ON STANDARD		
		SOURCE	TAP		
G	BOX PA FINISHE 31" URIAL DEPTH 7 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6"	FRONT	$\begin{array}{c} \hline DP \ VIEW \\ \hline 10 \frac{1}{4}^{n} - 30^{n} - 37^{n} - 37^{n} - 3\frac{1}{4}^{n} - 10^{n} - 37^{n} - 37$		
BEC STK#:	QTY:	MATERIAL USGE-9:			
12971	1	SWITCHGEAR, AIR, 1-200 FUSE, 3-600 SWITCHES			
10988	2	ROD, GROUND 5/8" X 8', 13 MIL CU CLAD			
10262	2	CLAMP, GRD ROD GALV 3/4 L			
10333	13	CONN, SPLIT BOLT CC #2 L			
11196	6.148	WIRE, COPPER BARE S.D. #2 7 STR L			
10732	4	INSECTICIDE ANT CONTROL L			
10779	8	LOCK, PADLOCK, STANDARD WITH BEC LOGO			
10386	3	CONN,INSUL.L.B.PARKING STAND L			
10237	3	CAPS, ASSY GRD TERMINATION L			
11202	26.12	WIRE, COPPER BARE 4/0 19 STR L			
10172	3	BUSHING, LB INSERT 25KV L			
10172					
B		DATE APPROVED: MARCH 8, 2017	UNDERGROUND DISTRIBUTION		





Notes: Neutral (must be insulated) may be reduced no more than two sizes on residential application. No reduction of the neutral is allowed on commercial applications. Galvanized weatherhead Weatherproof fittings required. This meter loop specification is good for the following voltages: 120/240, 120/208, 240/480 & 2. 3. 5' to 7' of conductor tails out of weatherhead. 277/480. Please use MS-301 for straight 480 Delta applications only. Meter pole must remain free of structures and -Point of Service 4 bo private attachments other than meter loop. Bluebonnet Electric will supply ground rod. On steel poles use a $\frac{4}{3}$ " X $1\frac{1}{2}$ " self tapping screw. For your safety, only Bluebonnet personnel are authorized to install meter loops or other BEC equipment on a Bluebonnet pole. Members shall 5 35, 6. 7. G Only approved electrical metal conduit allowed. have loop assembled and available for installation by red Bluebonnet. requi FOR SINGLE PHASE TRAFFIC CONTROL DEVICES: Bluebonnet meter pole 200amp, 4 terminal, 1-phase, will require a lever by-pass meeting ANSI C12.7, UL 414, and NEMA 3R rating. Lever by-pass is only required for meter installations serving traffic control devices, including railroad, that need to All pole mounted meter loops riser have to be installed on Bluebonnet pole. remain functional at all times. FOR THREE PHASE APPILCATIONS 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 <u>`</u> Member to provide (4) two hole straps other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications. NEMA approved meter Techline (512-332-2978) socket shall be between Galvanized metal conduit with (1) locknut 5' and 6' above finished grade. and fiber bushing inside meter can on nipple and (1) locknut under meter can. Maintain Weatherproof main disconnect with hub 3-6" distance between the meter can and ₩Ţ_ ωĮ the disconnect. Member shall use a metal and gasket on top. Disconnect shall nipple. A Straight or offset nipple is have a single main breaker as defined ΜÝ acceptable. in the NEC. Weathe Proof Disconne #6 solid, bare ground wire and clamp attached to Bluebonnet's pole ground. Service to load shall be Ground rod provided by Bluebonnet. enclosed in minimum schedule 40 nonmetallic WIRING INSTALLATIONS MUST conduit. MEET LOCAL GUIDELINES, IF 24" APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER Finished Grade GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. 24" Minimum To Load FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL Latest update can be found at CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC. http://www.bluebonnetelectric.coop CURRENT CARRYING CAPACITIES AND CONDUIT/NIPPLE SIZE REQUIREMENTS OF STANDARD WIRE SIZES (RHH, RHW, THW, THWN, THHN, AND XHHW) REFER TO NEC FOR OTHER CALCULATIONS. COPPER CONDUCTOR ALUMINUM CONDUCTOR Conduit/Nipple Size Wire Size Breaker Size Wire Size Breaker Size Conduit/Nipple Size 1¼" Conduit #6 60 Amp #4 60 Amp 1¼" Conduit #2 100 Amp 1¼" Conduit 100 Amp #4 1¼" Conduit 1½" Conduit #2 125 Amp 1½" Conduit #1/0 125 Amp 150 Amp 2" Conduit 150 Amp #1 #2/0 2 Conduit 2" Conduit #2/0 200 Amp 2" Conduit #4/0 200 Amp 19' METER LOOP **Blue**bonnet 10 OR 30 60-200 AMP METER LOOP ON METER POLE (GOOD FOR VOLTAGES: 120/240, 120/208, 240/480, 277/480) Drawn By : Checked By : Approved By : DATE REVISIONS MS COMMITTEE MS COMMITTEE RG 11-27-17 ADDED NIPPLE AFTER CONDUIT SIZE

MS-10119

Scale :

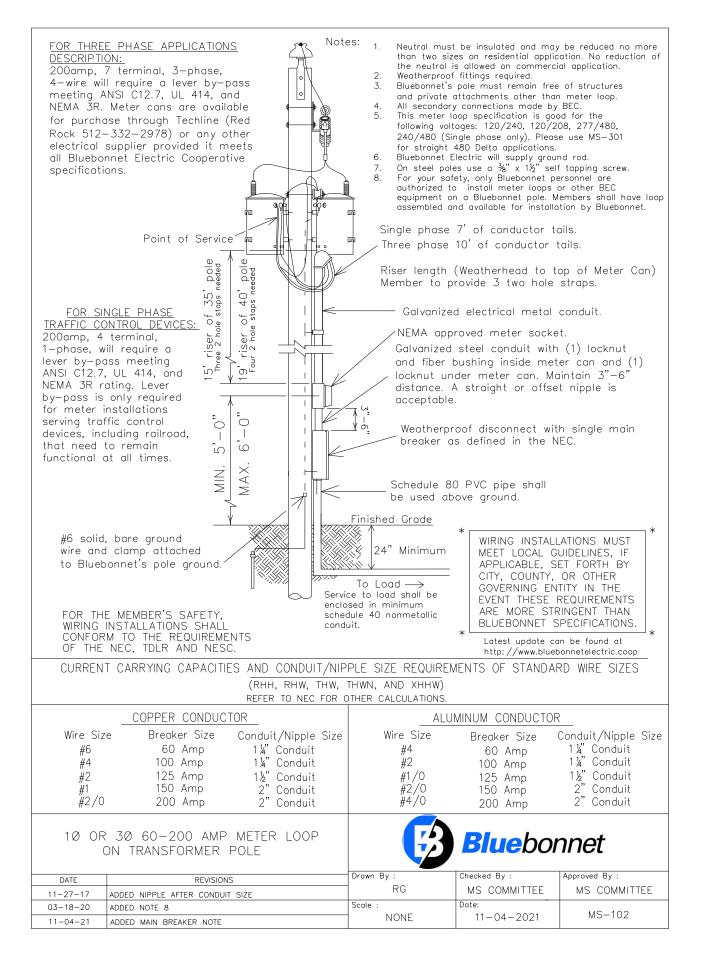
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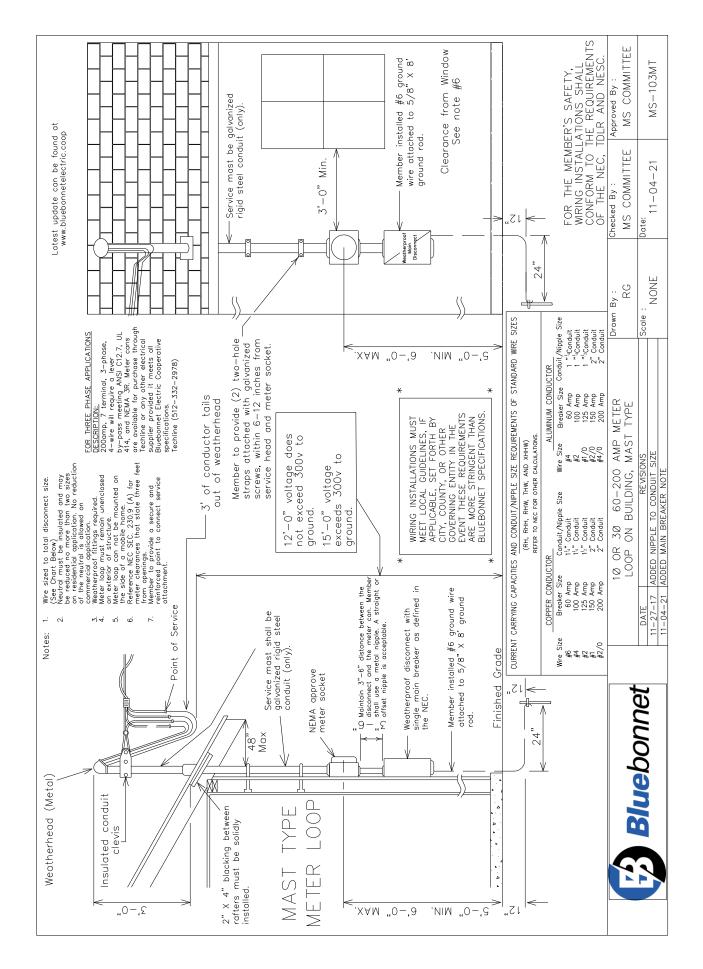
03-31-20 ADDED NOTE 7

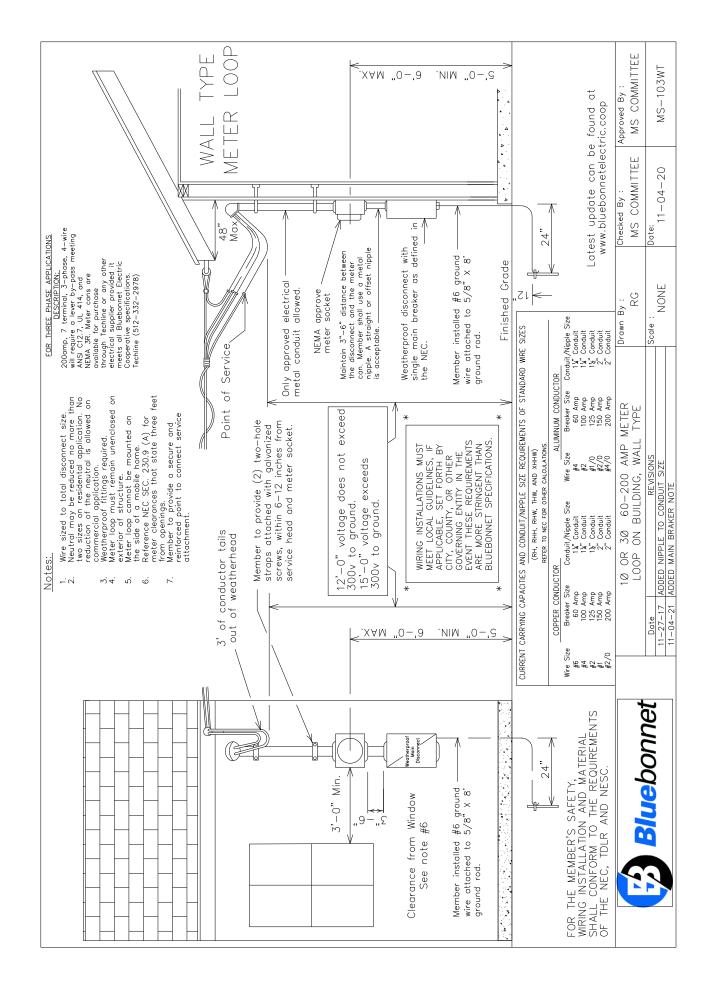
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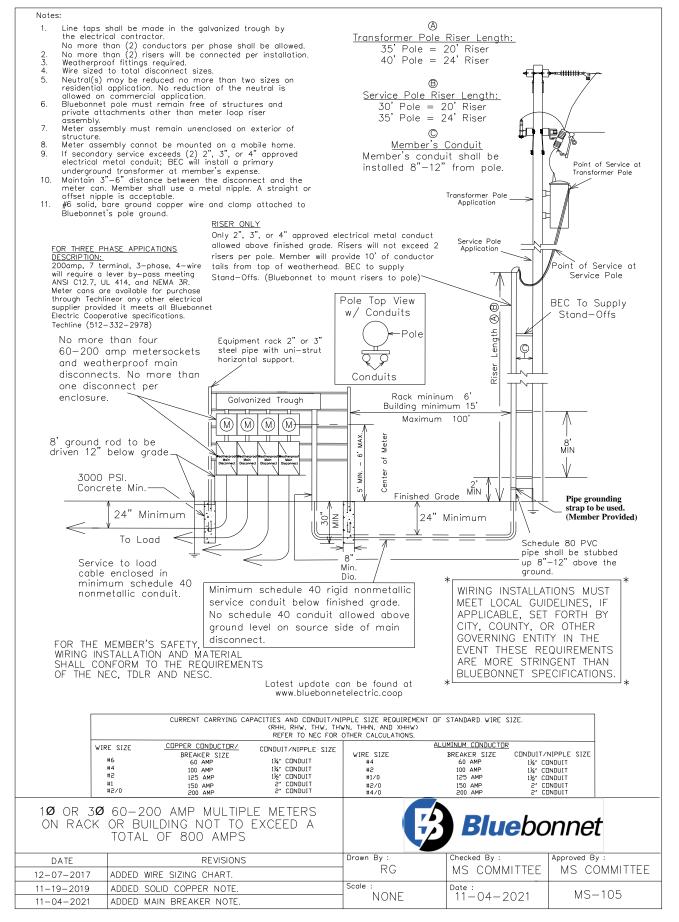
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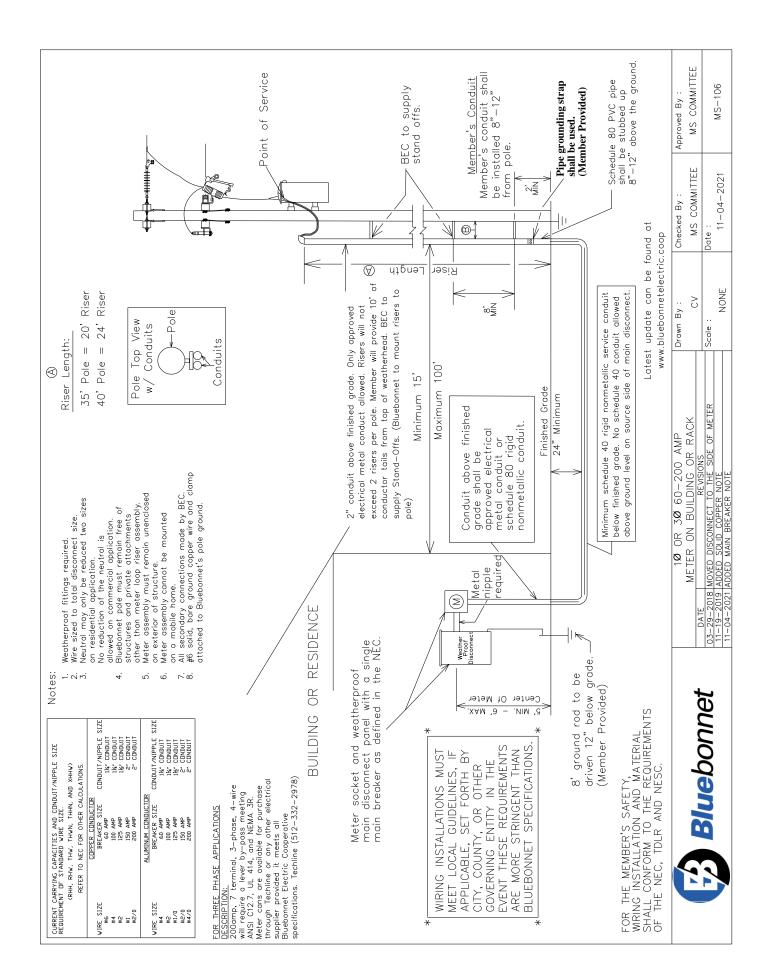
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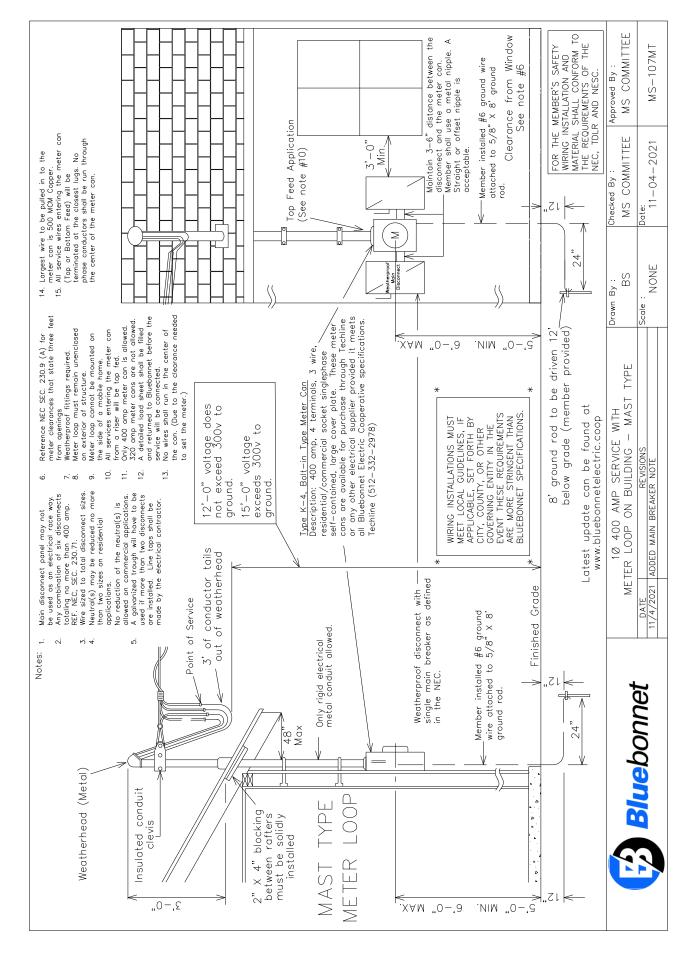


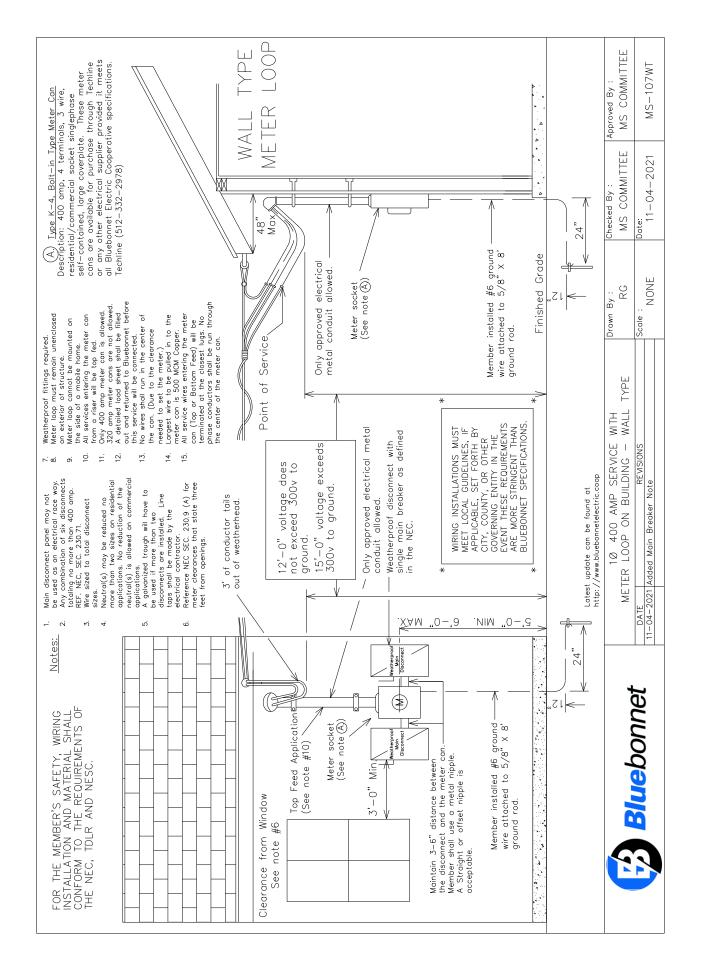


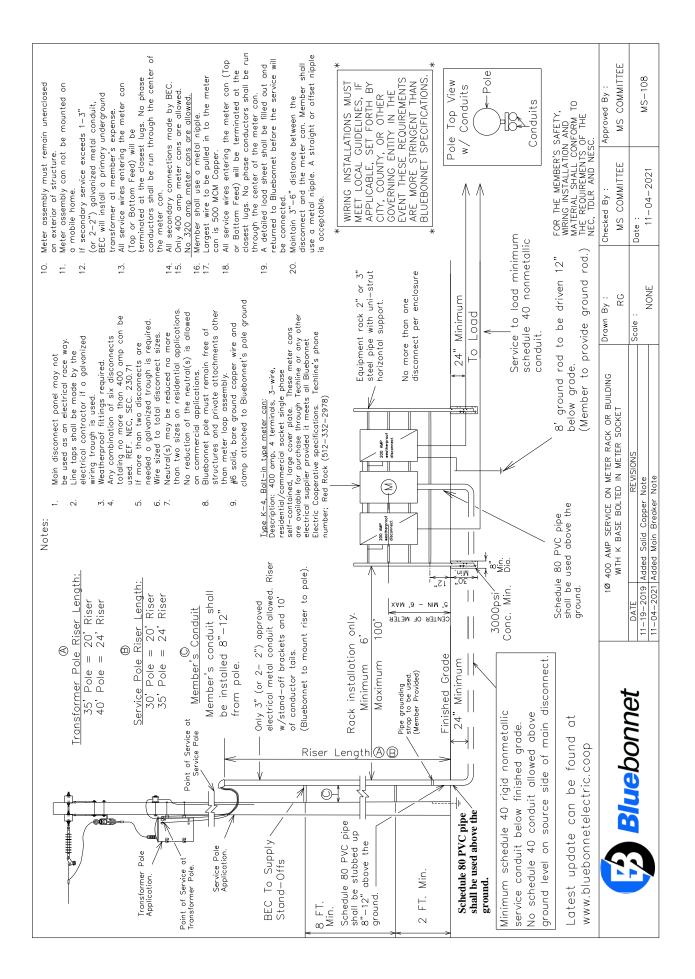


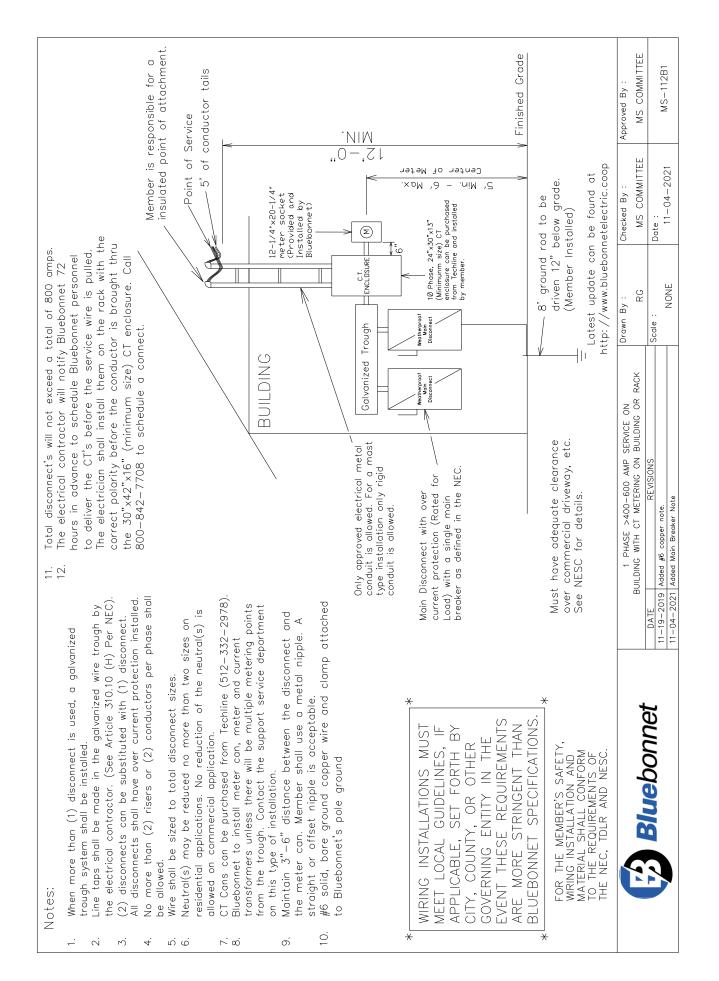


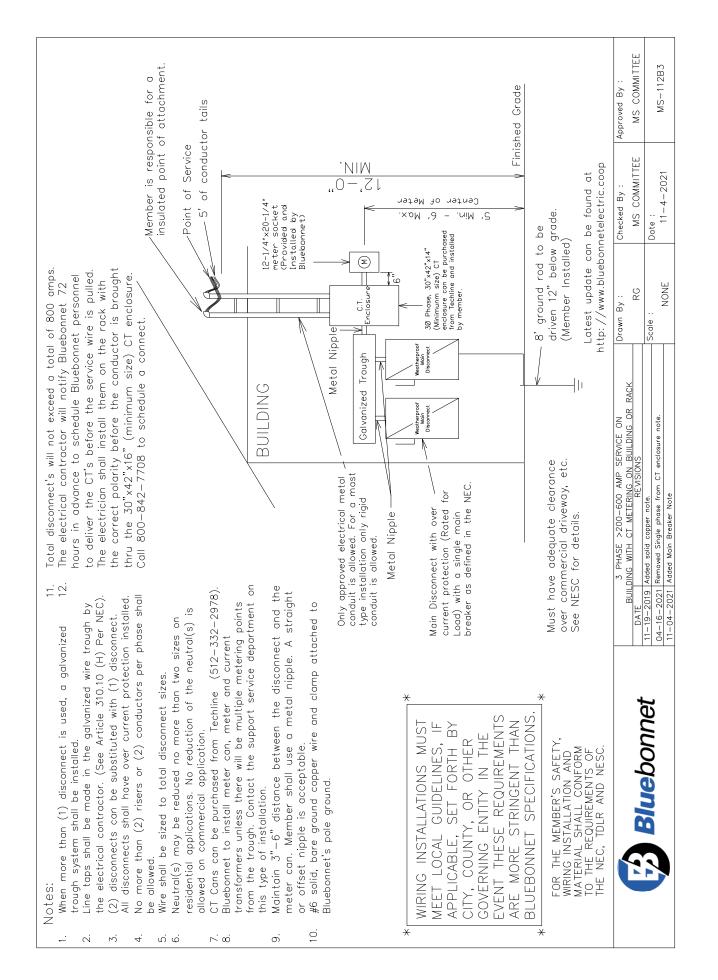


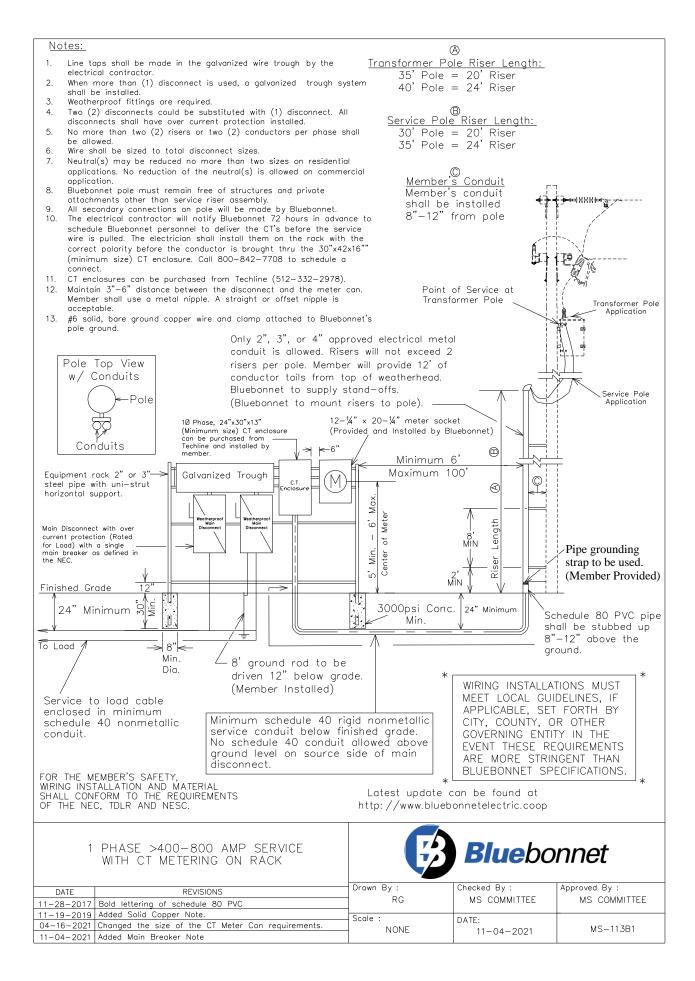


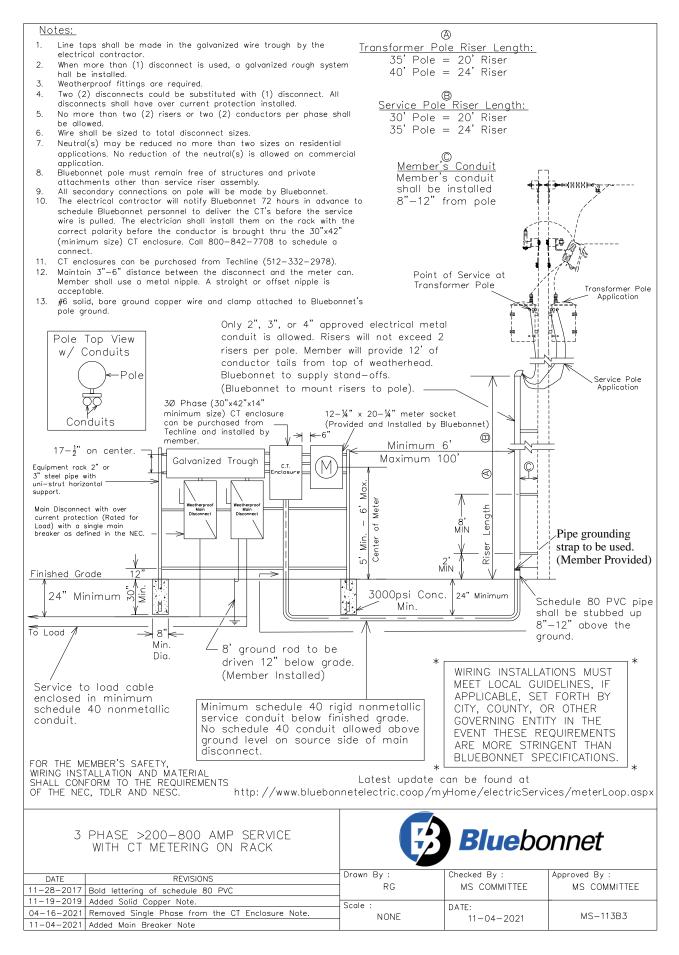












Notes: 8. More than (6) main disconnects require a properly sized Line taps shall be made in the galvanized wiring main disconnect ahead of the galvanized trough. 1. trough by the electrical contractor. 9 Bluebonnet pole must remain free of structures and private 2 Weatherproof fittings Required. attachments 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. 11. Type K-4, Bolt-in type meter can: Description: 400 amp, protection installed. 4 terminals, 3-wire, residential/commercial socket 4. No more than (2) risers or (2) conductors per phase single phase self-contained, large cover plate. These meter cans are available for purchase through Techline shall be allowed. 5 Wire shall be sized to total name plate disconnect (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) is allowed on commercial application. 12. Maintain 3"-6" distance from the disconnect and the meter can. Member shall use a metal nipple. A straight or offset 7. The electrical contractor will notify Bluebonnet 72 nipple is acceptable. hours in advance to schedule Bluebonnet personnel to 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 12-1/4" x 20-1/4" meter socket (Provided and installed by metal conduit allowed. Riser will not exceed 2 risers per pole. Member will Bluebonnet) provide 12' of conductor tails from top of 1Ø Phase (24"x30"x14" minimum size) weatherhead. BEC to supply stand-offs. CT enclosure can be purchased from Techline and installed by member (Bluebonnet to mount risers to pole) (A)Main Disconnect with over Riser Length: 35' Pole = 20' Riser Point of Service current protection (Rated for 40' Pole = 24' Riser Load) with a single main breaker as defined in the NEC. To Load ₿ Lengt <u>Member's Conduit</u> Member's conduit shall be installed 8"-12" from pole To Load 200 amp or 200 amp or Λ ser ⇒6' ⊘ à 100' Maximum distance. СТ atherp Main 15' Minimum (M) (M) (M)₿ Max Meter Pipe grounding 8' MIN <u>Mi</u>r strap to be used. .9-Galvanized Trough of (Member Provided) Min. Center #6 solid, bare ground wire and clamp attached ~ 2' MIN BUILDING . D to Bluebonnet's pole ground. Finished Grade 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 Schedule 80 PVC pipe shall-Pole Top View rigidnonmetallic conduit. w/ Conduits be stubbed up 8"-12" above the ground. Pole WIRING INSTALLATIONS MUST Conduit below finished grade shall be minimum schedule 40 Gray PVC rigid MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER nonmetallic conduit. Con'duits GOVERNING ENTITY IN THE FOR THE MEMBER'S SAFETY, WIRING INSTALLATION AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC. EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN Latest update can be found at BLUEBONNET SPECIFICATIONS. http://www.bluebonnetelectric.coop 10 400-800 TOTAL AMPS WITH MULTIPLE METERING POINTS ON BUILDING. **Blue**bonnet (RISER TYPE)

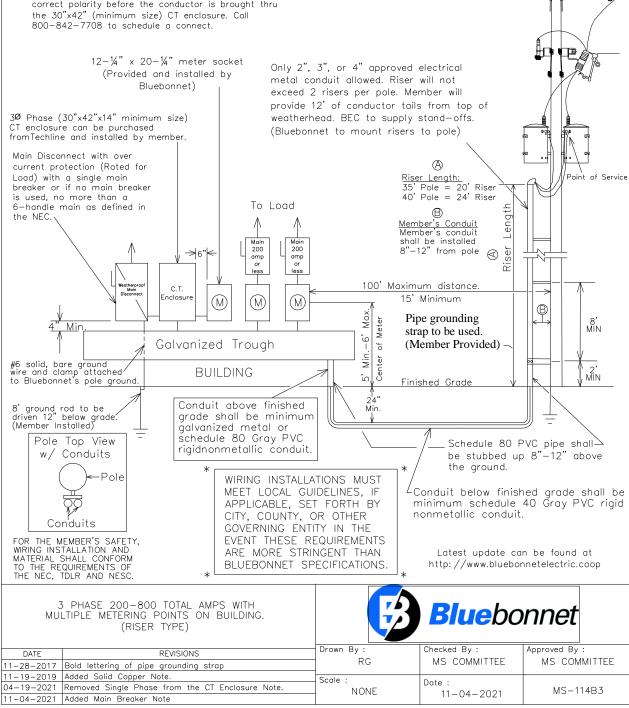
DATE REVISIONS	Drawn By :	Checked By :	Approved By :
11-28-2017 Bold lettering of Pipe grounding Strap	RG	MS COMMITTEE	MS COMMITTEE
11-19-2019 Added Solid Copper Note.	Scale :	Date :	
04-19-2021 Changed the size of the CT Meter Can requirements.	NONE	11-04-2021	MS-114A1
11-04-2021 Added Main Breaker Note		11-04-2021	

Notes:

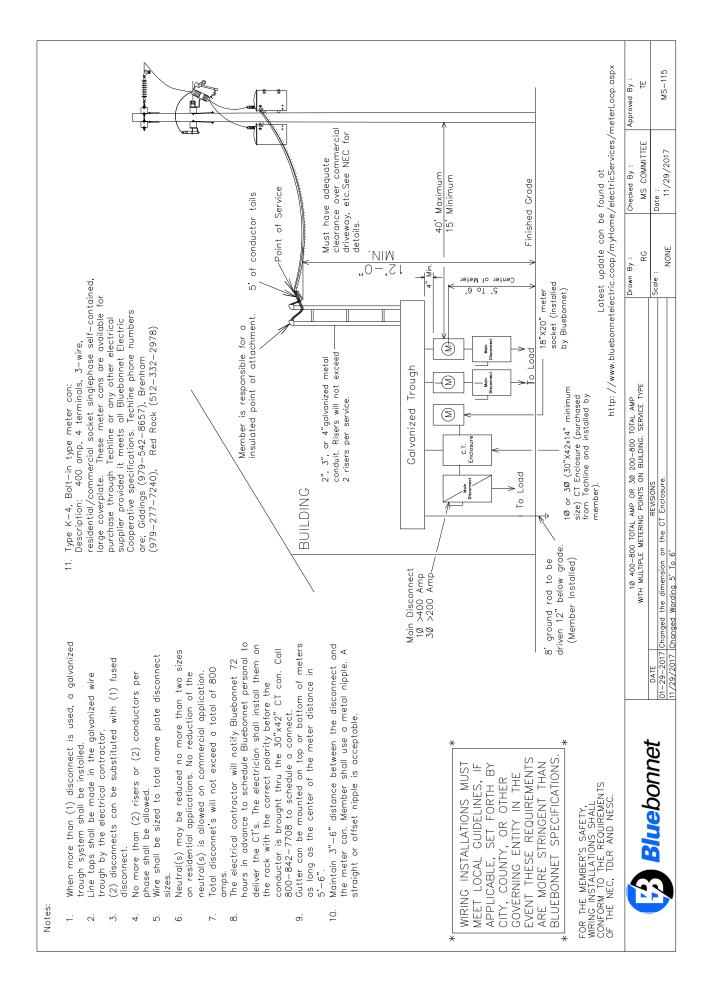
- 1. Line taps shall be made in the galvanized wiring trough by the electrical contractor.
- 2. Weatherproof fittings Required.
- 3. (2) disconnects could be substituted with (1) disconnect. All disconnects shall have over current
- protection installed.4. No more than (2) risers or (2) conductors per phase shall be allowed.
- 5. Wire shall be sized to total name plate disconnect sizes.
- Neutral(s) may be reduced no more than two sizes on residential application. No reduction of the neutral(s) 12. is allowed on commercial application.
- The electrical contractor will notify Bluebonnet 72 hours in advance to schedule Bluebonnet personnel to 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.

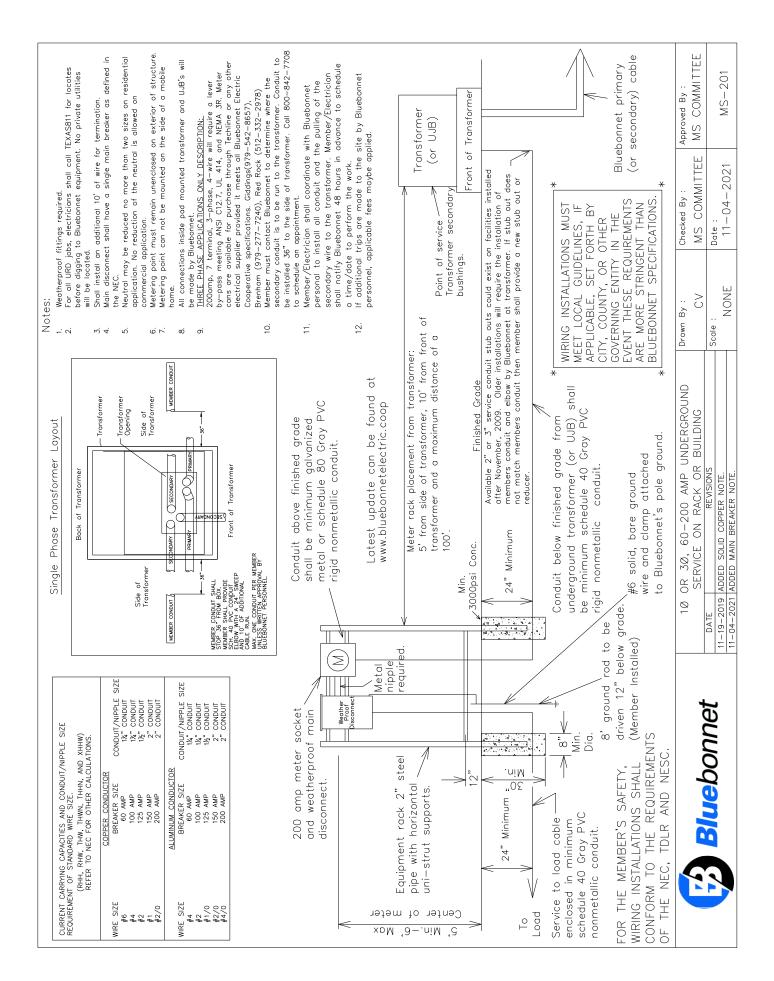
- More than (6) main disconnects require a properly sized main disconnect ahead of the galvanized trough.
- 9. Bluebonnet pole must remain free of structures and private attachments other than meter loop riser assembly.
- Meter assembly must remain unenclosed on exterior of structure.
 <u>Type K-4, Bolt-in type meter can</u>: Description: 400 amp,
 - <u>type k-4, bolt-in type meter can</u>: Description: 400 amp, 4 terminals, 3-wire, residential/commercial socket single phase self-contained, large cover plate. These meter cans are available for purchase through Techline
 - (512-332-2978) or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications. Maintain 3"-6" distance from the disconnect and the meter
 - can. Member shall use a metal nipple. A straight or offset nipple is acceptable.

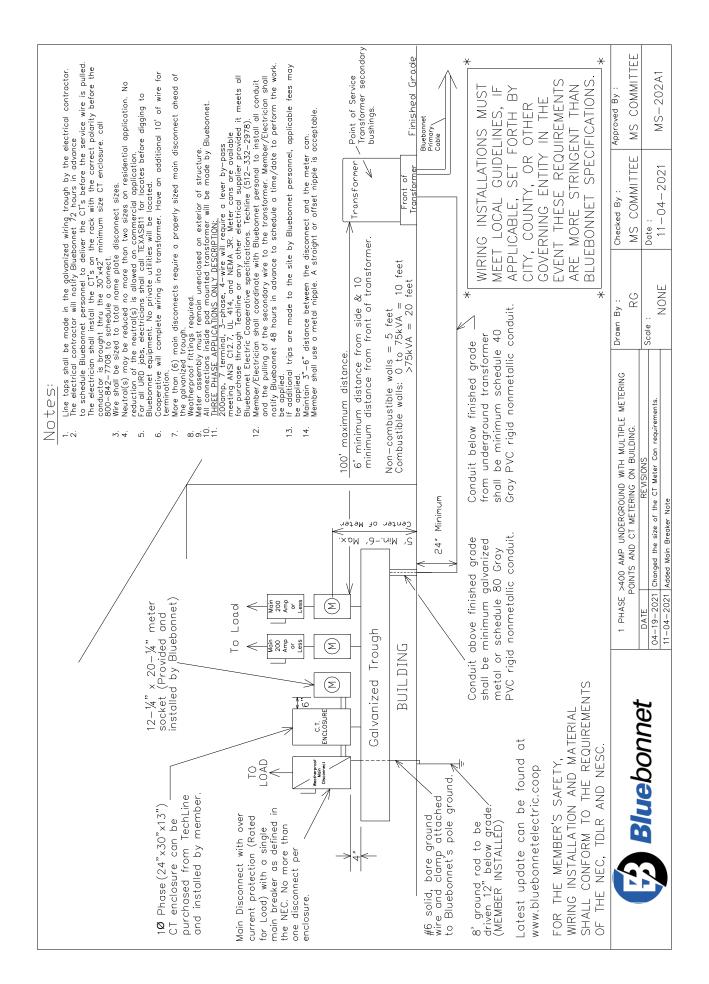
No more than one disconnect per enclosure.

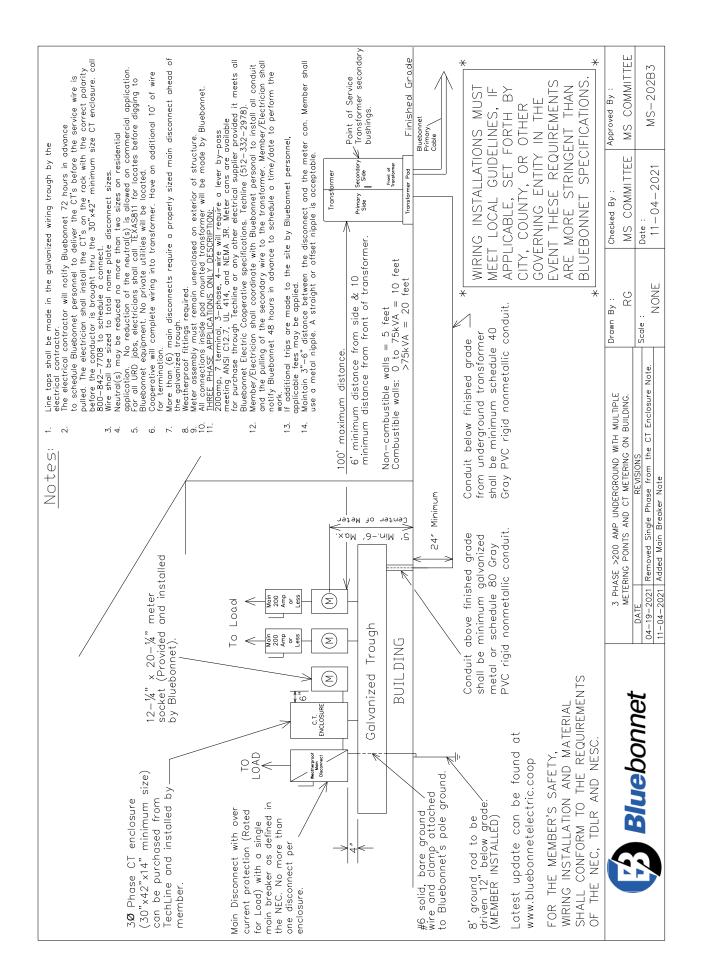


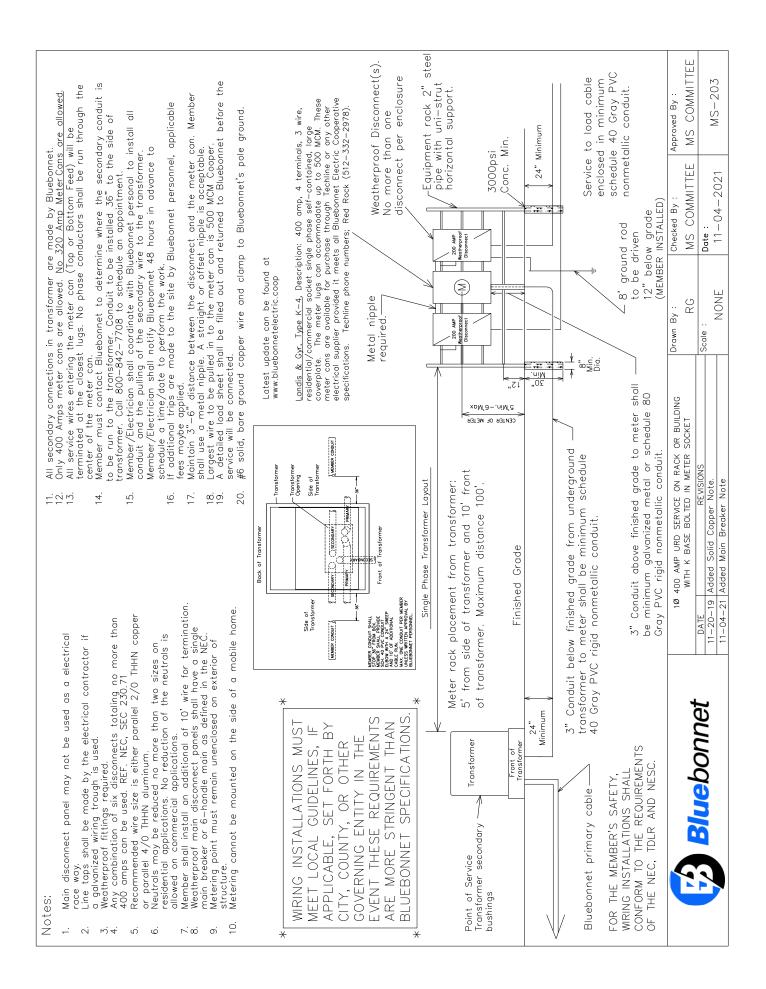
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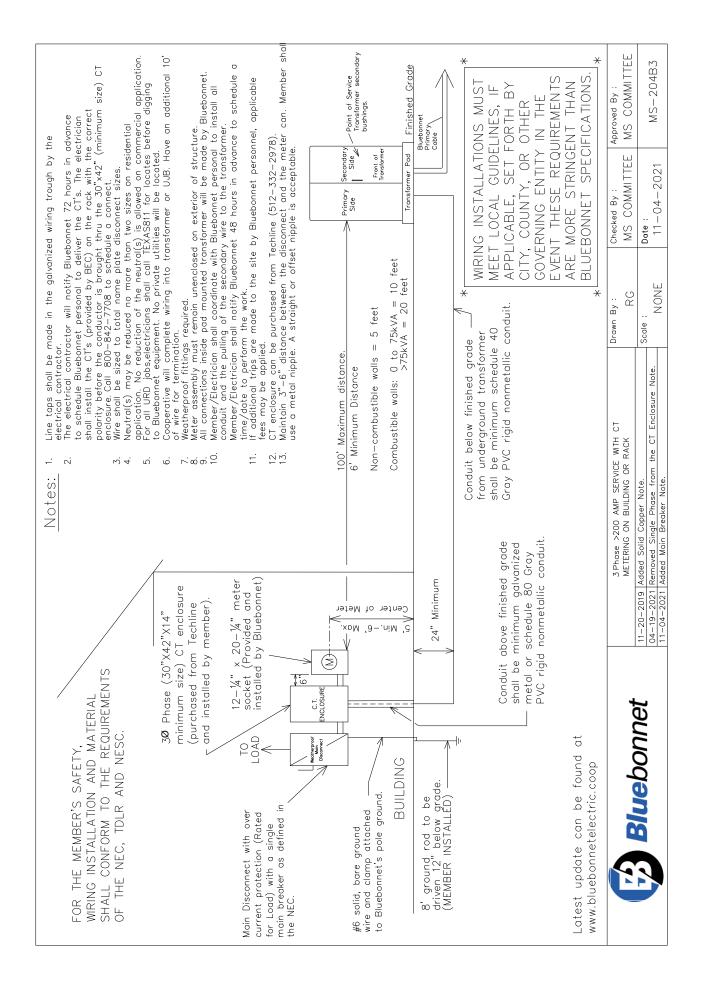


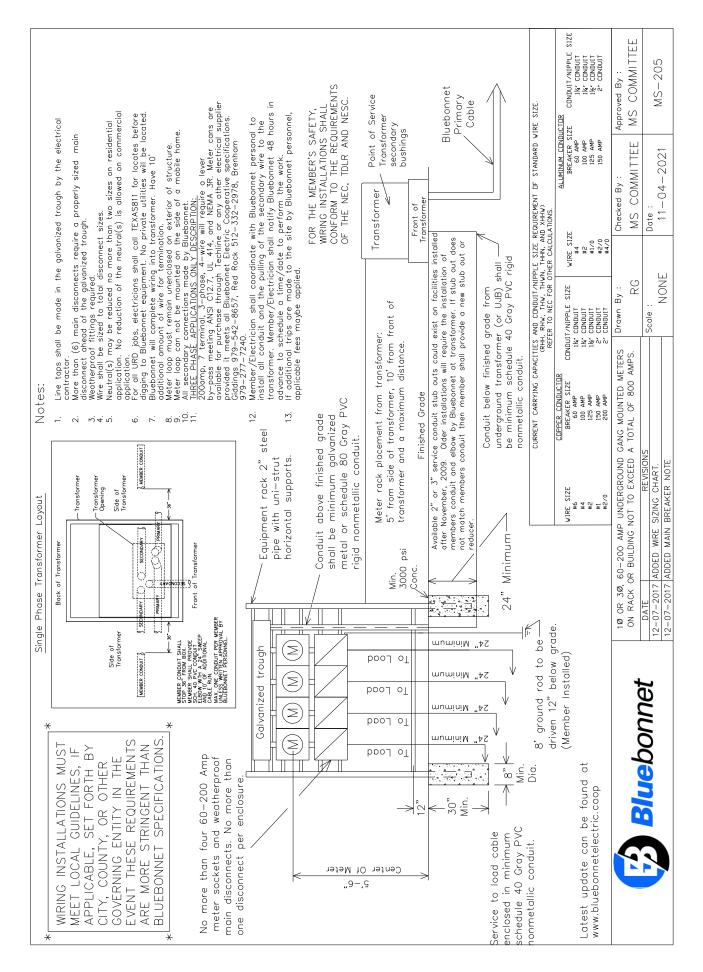


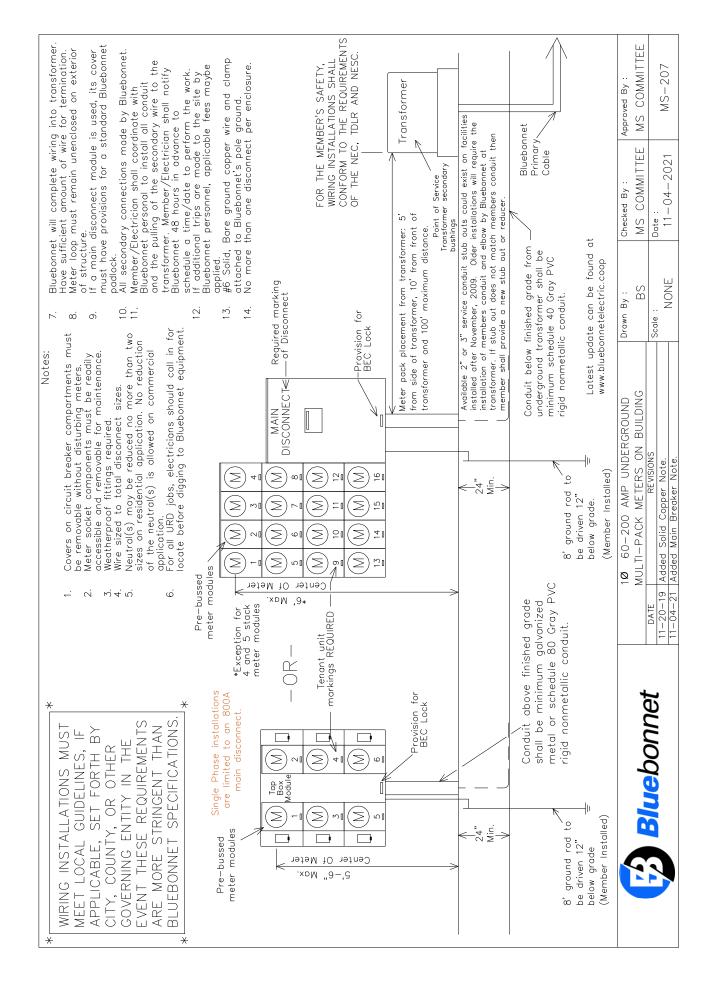


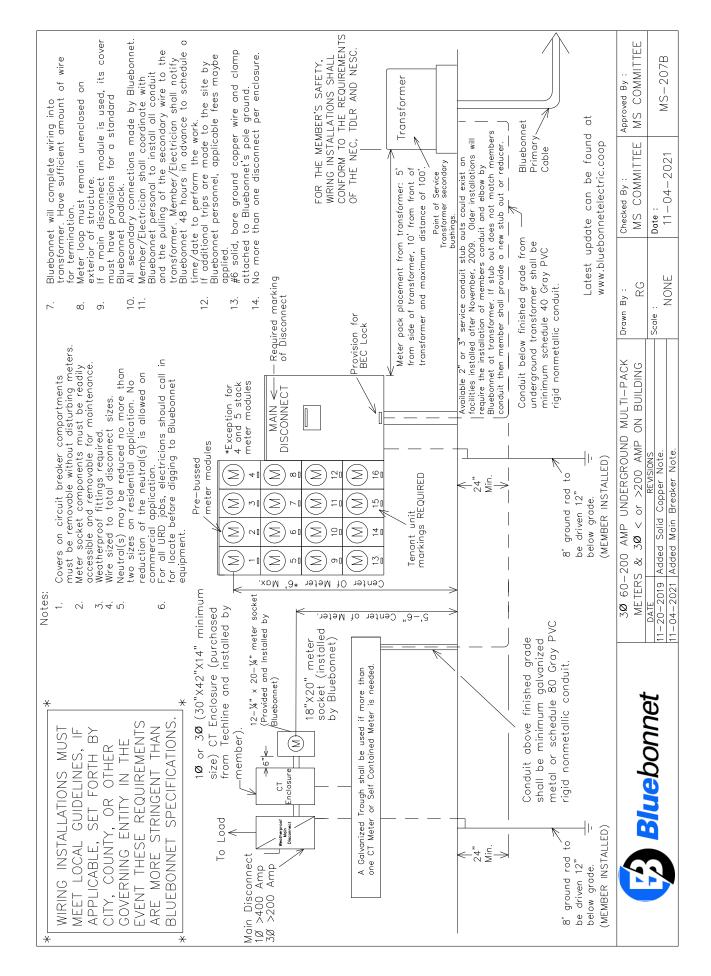
nall be made in the galvanized trough by the f fittings required. ects could be substituted with (1) disconnect, were current protection. e sized to total disconnect sizes. any be reduced no more than two sizes on re No reduction of the neutral(s) is allowed on on any the reduced no more than two sizes on re for conduit to be installed 36" to the side film. Complete wring into transformer. Have su mination. Member shall install an additional 10	× × ×		LATIONS MUST GUIDELINES, IF SET FORTH BY ; OR OTHER VITTY IN THE REQUIREMENTS FRINGENT THAN SPECIFICATIONS.	
 termination. All secondary connections to be made inside transformer by Bluebonnet. Bluebonnet to provide the CT's. Bluebonnethy must remain unenclosed on exterior of structure. Member/Electrician shall coordinate with Bluebonnet personal to install all conduit and the pulling of the secondary wire to the transformer. 	by Bluebonnet. ructure. nal to install all isformer.	FOR T WIRING SHALL OF TH	FOR THE MEMBER'S SAFETY, WRING INSTALLATION AND MATERIAL SHALL CONFORM TO THE REQUIREME OF THE NEC, TDLR AND NESC.	FOR THE MEMBER'S SAFETY, WRING INSTALLATION AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.
a time/date to perform the work. 12. If additional trips are made to the site by Bluebonnet per fees may be applied. 13. Maintain 3"-6" distance between the disconnect and the	rsonnel, applicable meter can. Member		Three phase application, the CT's & meter can are located on/in the transformer.	plication, the an are located former.
shall use a metal nipple. A straight or offset nipple is acceptable. Equipment rack 2" or 3"	ceptable. Non-combustible walls = 5 feet Combustible walls: 0 to 75kVA = >75kVA = 20	feet VA = 10 feet = 20 feet		
horizontal supports.	Meter rack placement from transformer: 6' from side of transformer, 10' from front of transformer and 100' maximum distance.	side of transformer, 🗸 distance.		Transformer
current protection (Rated Memory for Load) with a single memory for Load) with a single memory the memory the NEC.	Conduit above finished grade shall be minimum galvanized metal or schedule 80 Gray PVC rigid nonmetallic conduit.		Primary Sec Side	Secondary Side Point of Service Transformer secondary Front of bushings
Min. 3000 psi Concrete	12. Einished Grode		Transformer Pad	po
	24"			-
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) nonmetallic conduit.	de from hall be	Bluebonnet	et S
	Latest update can be found www.bluebonnetelectric.coop	und at oop		
Riebonnat	3 PHASE >200 AMP UNDERCROUND SERVICE WITH DISCONNECT ON RACK OR BUILDING DATE DEFUSIONS	, _{By} : RG	Checked By : MS COMMITTEE	Approved By : MS COMMITTEE
	19 Added Solid Copper Note. 21 Added Main Breaker Note	Scale : Date NONE 11.	ate: 11-04-2021	MS-204A3

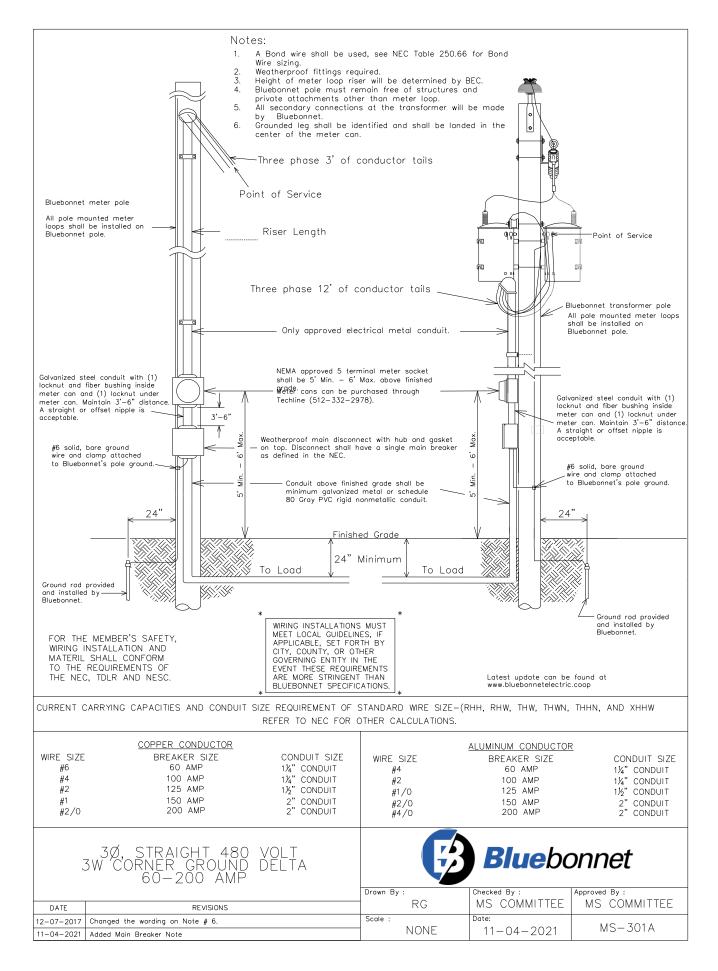
Bock of Transformer Transformer Transformer Transformer Transformer Transformer Transformer Transformer Transformer Front of Transformer Front of Transformer Front of Transformer Front of Transformer	Notes: 1. 2. 10 Phase (24"X30"X13" 5. 11 Phase (24"X30"X13" 6. 11 Phase (24"X30"X13" 6. 12 Phase (24"X30"X13" 13. 14. 5. 10. 10. 10. 11. 12. 12. 10. 12. 12. 13. 14. 15. 10. 10. 10. 10. 10. 10. 10. 10	Line taps shall be made in the galvanized wiring trough by the electrical contractor. The electrical contractor install the CTS (provided by BEC) on the rack with the correct plonity before the conductor is brought thru the 30°42° (minimun enclosure. Call 800–842–7708 to schedule a connect. Where shall be sized to total name plate disconnect sizes. Neutral(s) may be reduced no more than two sizes on residential application. No reduction of the neutral(s) is allowed on commercial for all URD jobs.electricions shall call TEXASBI1 for locates before to Bluebonnet equipment. No private utilities will be located. Cooperative will complete wing into transformer or UJB. Have an c of wire for termination. Mether of fittings required. Mether of fittings required. Mether of the secondary wire to the transformer. Mether of the pulling of the secondary wile be nore to the additional trips are made to the secondary wile be nore the polling of the secondary wile to the transformer. Mether offician shall notify Bluebonnet personnel, of the additional trips are made to the site by Bluebonnet personnel, of the additional trips are made to the site by Bluebonnet personnel, of the same of the secondary wile to the transformer. Mether offician shall notify Bluebonnet personnel, of the secondary to be purchased from Techline (512–332–2978).	Line taps shall be made in the galvanized wiring trough by the electrical contractor. The electrical contractor will notify Bluebonnet 72 hours in advance to schedule Bluebonnet personal to deliver the CTs. The electrician shall install the CT's (provided by BEC) on the rack with the correct polarity before the conductor is brought thru the 30°×42° (minimum size) CT enclosure. Call 800–842–7708 to schedule a connect. Nere shall be sized to total name plate disconnect sizes. Neutral(s) may be reduced no more than two sizes on residential application. No reduction of the neutral(s) is allowed on commercial application. To Bluebonnet equipment. No private utilities will be located. Cooperative will complete wing into transformer or UJB. Have an additional 10° of wire for termination. Metherproof fittings required. All connections shall conflored on exterior of structure. All connections shall conflored transformer will be made by Bluebonnet. Member/Electrician shall notify Bluebonnet the ransformer. Member/Electrician shall notify Bluebonnet the ransformer of the for termination. Member/Electrician shall notify Bluebonnet the ransformer of structure. Member/Electrician shall notify Bluebonnet 48 hours in advance to schedule a time/date to perform the work. The offician from the site by Bluebonnet personnel, applicable fees may be opplied.	ze) CT plication. ing inoal 10' itional 10' all all able
Main Disconnect with over current protection (Rated for Load) with a single main breaker as defined in the NEC.	5 Min6 Mox. 5 Min6 Mox. Combu	 Maintain 3 - b distance between the shall use a metal nipple. A straight of the #6 solid, bare ground copper wire an ground. Maximum distance. Minimum Distance Non-combustible walls = 5 feet Combustible walls: 0 to 75kVA = 10 feet 	disconnect and the meter can. M or offset nipple is acceptable. d clamp attached to Bluebonnet's Transformer Frant of Frant of Transformer Frant of Frant of	ember pole secondary Grade
8' ground rod to be driven 12" below grade. (MEMBER INSTALLED)	24" Minimum	K	Bluel Prim Cobl	\wedge
FOR THE MEMBER'S SAFETY, WIRING INSTALLATION AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.	Conduit below finished from underground tran shall be minimum sche Gray PVC rigid nonmet Conduit above finished grade shall be minimum galvanized metal or schedule 80 Gray PVC rigid nonmetallic conduit.	grade * sformer dule 40 allic conduit.	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	*
Lutest update can be round at www.bluebonnetelectric.coop		*	BLUEBONNET SPECIFICATIONS	* SN:
		T Drawn By : RG	Checked By : Approved By : MS COMMITTEE MS COMN	ed By : COMMITTEE
	11-20-2017 Added Solid Copper Note. 04-16-2021 Changed the size of the CT Meter Co 11-04-2021 Added Main Breaker Note	Meter Can requirements. Scale : NONE	Date : 11-04-2021 MS-204B1	204B1

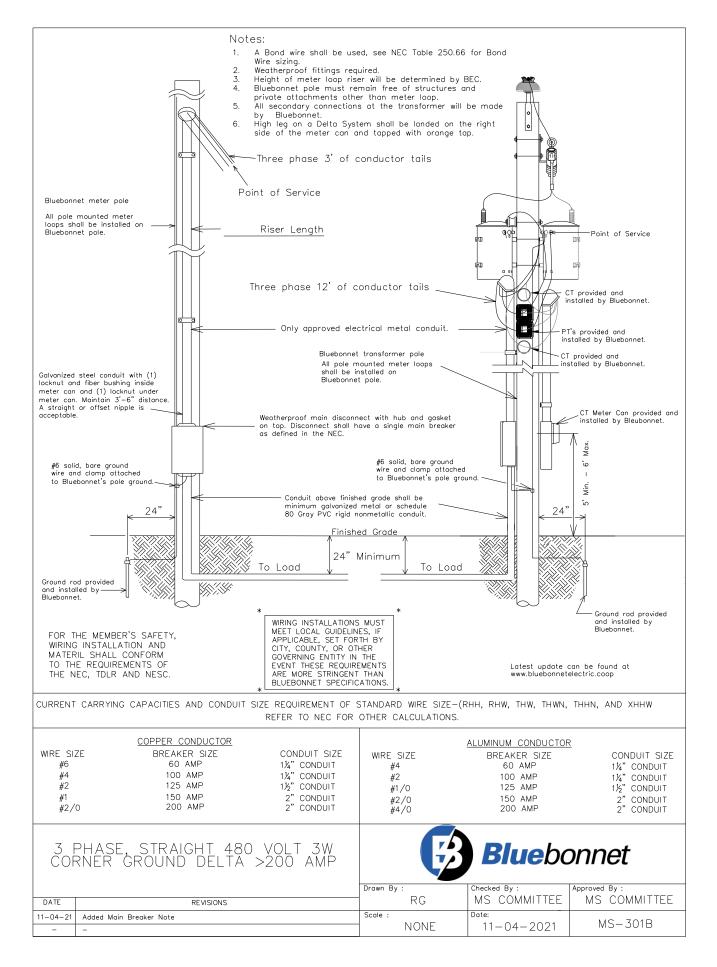


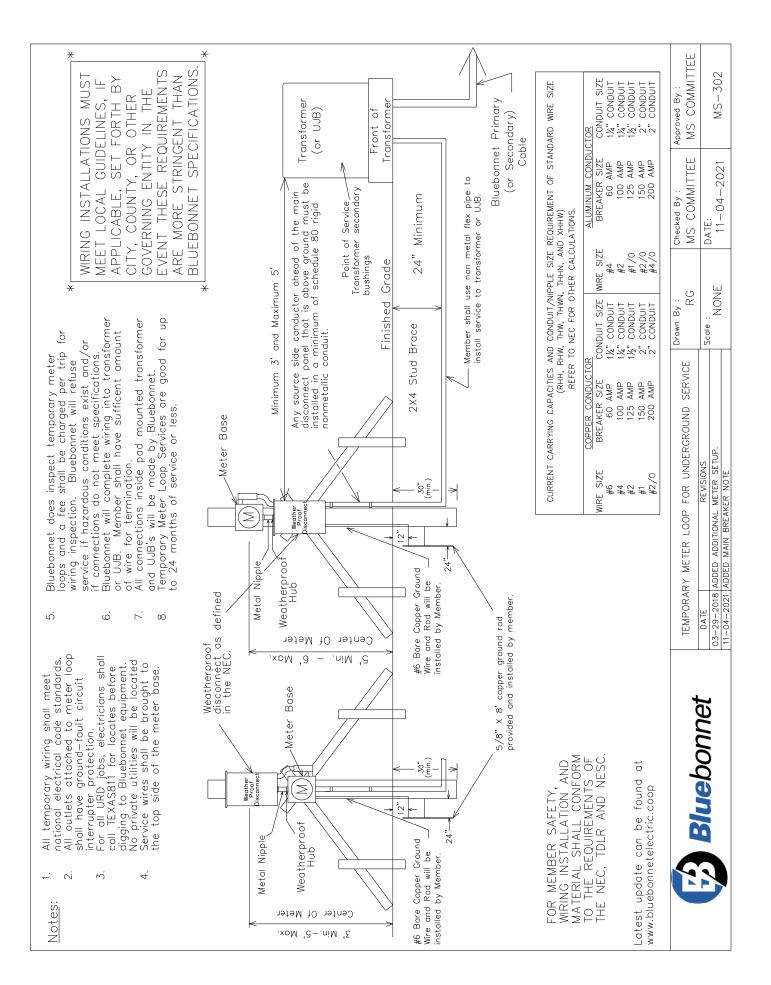


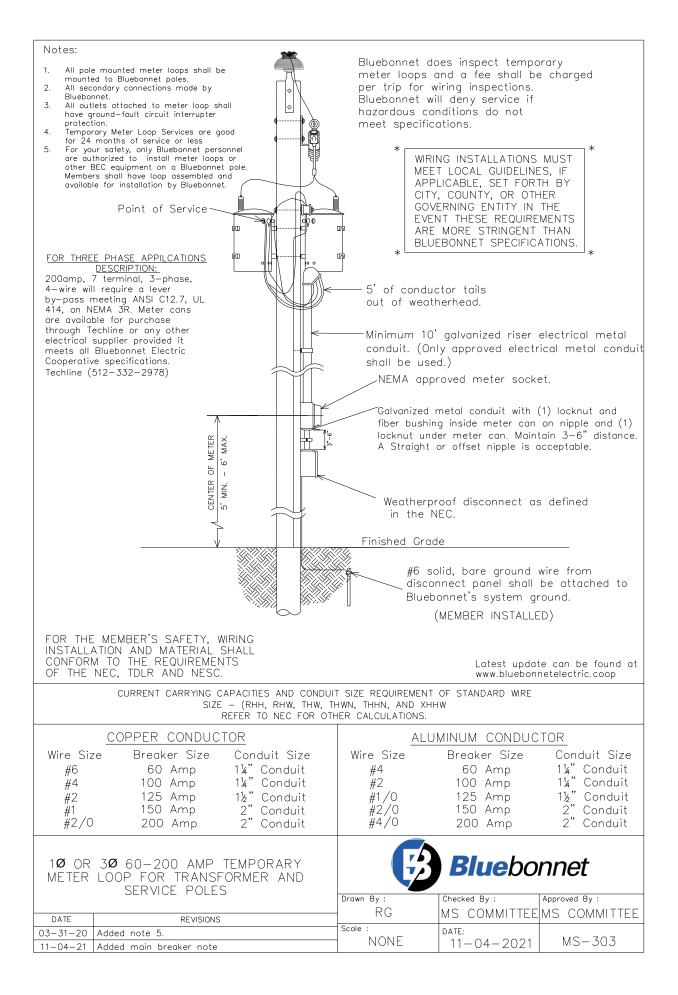












Material Standards:



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.*



MEMBER RESPONSIBILITY

BLUEBONNET RESPONSIBILITY

Deliver essential project documents to Bluebonnet Electric Coop. - Site plan files (CAD Format), load information, information request form(s), project schedule.	BEFORE THE CLOCK STARTS	Facilitate correspondence with member/developer to discuss needs and review available information. Provide Bluebonnet Developer's Package (Commercial/ Residential); including standard Bluebonnet Easement. Collect information from Member/Developer. Verify a complete member package has been received, including all required documentation.
Host a site visit and/or Pre-design Meeting/Call with Bluebonnet Representative(s). Provide up to date and accurate Project Schedule for all stages, including desired energization date.	WEEK #1	Attend site visit or Pre-design meeting, evaluate site layout, utility coordination, member construction coordination, jobsite construction access, etc.
Bluebonnet Electric cannot begin design of project until all required documentation is received.	WEEKS #2-#5	Design electric service layout; coordinate with the electric system (circuit capacity, fuses). Size equipment, determine rate class for Community Representative to communicate to Member.
	WEEKS #6-#7	Prepare and submit any necessary permits. Schedule and complete field staking of project. Finalize and secure all easements.
	WEEK #8	Create cost estimate and deposit and send cost letter and Site Ready Letter to developer.
Expedite payment to Bluebonnet Electric for project. Provide any required third party easements and outstanding information.	WEEK #9	
**Bluebonnet Electric will not release project for scheduling (apartments and subdivisions) until addressing information is	WEEKS #10-#11	Process project payment.
received.**	WEEK #12	Prepare for and release project to construction. Verify material availability and receipt of developer's Site Ready Letter.
Bluebonnet Electric cannot begin construction of project until Site Ready documentation is received. Construction crews will leave the site if suitable construction conditions are unsatisfactory.	WEEK	Upon release, Construction Lead (Contract Coordinator or Bluebonnet Construction) will contact member within two business days to provide anticipated construction start date, duration, planned completion, etc.
Member completes preparation for final electric service delivery.	WEEKS #13-#28	Request crew scheduling from construction. Complete inspections and accept installations. Verify site is prepared and ready for construction. Construct Bluebonnet Electric Facilities.
Member requests initiation of final electric service.	WEEKS #29-#30	Inspect final installation. Energize project and initiate electric service.

A. If a Member step is late, the project clock **<u>STOPS</u>**. Members/Developers are highly encouraged to stay on top of payments, required easements, and all crucial deliverables and documentation.

B. Elapsed times are not a guarantee. More than thirty weeks may be needed for larger scope projects or projects that require significant upgrades to Bluebonnet Electric's system infrastructure.

C. Member/Developer is required to provide Bluebonnet Electric with any and all required easements, including third party, prior to commencing construction.

D. Bluebonnet Engineering staff are responsible for all steps from project inception through Week #12. Weeks #13 - #30 are managed

by Bluebonnet Construction Staff and are denoted in **BLUE**.

Cell: (979) 540-0195

E. Permitting schedule is contingent on regulatory agency approval (response times vary).

F. Member/Developer is required to notify construction once site is ready by returning a signed Site Ready Letter. **Projects will not be** released for scheduling until this document has been returned.

During the **planning, engineering, and design phase** of your project your main point of contact will be one of Bluebonnet's Project Coordinators. If the Project Coordinator for your project is not available, one of the other team members will be glad to assist you.

Bill Scoggins bill.scoggins@bluebonnet.coop Office: (979) 542-8648 Cell: (979) 716-7030	Rodney Gerik rodney.gerik@bluebonnet.coop Office: (979) 542-8527 Cell: (979) 540-8814	Clemente Verastegui clemente.verastegui@bluebonnet.coo Office: (979) 542-8542 Cell: (512) 578-6393
Shawn Ely	Shane Mathison	Thomas Ellis (Manager)
shawn.ely@bluebonnet.coop	shane.mathison@bluebonnet.coop	thomas.ellis@bluebonnet.coop
Office: (979) 542-8518	Office: (979) 542-8540	Office: (979) 542-8545
Cell: (979) 540-7361	Cell: (512) 577-6817	Cell: (979) 540-6146
Scott Iselt	Jorge Varillas	Wyatt Rosenauer
scott.iselt@bluebonnet.coop	jorge.varillas@bluebonnet.coop	wyatt.rosenauer@bluebonnet.coop
Office: (979) 542-8522	Office: (512) 764-2838	Office: (979) 542-8665

During the **construction**, **inspection**, **and metering phase** of your project your main point of contact will be Bluebonnet's Contractor Coordinator OR Assistant Superintendent. Bluebonnet's personnel cover specific areas of the service territory; areas are listed with their contact information.

Cell: (512) 629-5924

Cell: (512) 376-8291

Joey Tobola (Contractors) joey.tobola@bluebonnet.coop Cell: (979) 540-7162	Randall Bownds (Giddings Area) randall.bownds@bluebonnet.coop Office: (979) 542-8516 Cell: (979) 540-6418	Chad Lewis (Brenham Area) chad.lewis@bluebonnet.coop Office: (979) 277-8558 Cell: (979) 277-4041
Aaron Seeliger (Red Rock Area) aaron.seeliger@bluebonnet.coop Office: (512) 764-2788 Cell: (512) 227-2281	Kenneth Roush (Underground – All Areas) kenneth.roush@bluebonnet.coop Cell: (512) 468-5088	Tim Mittasch (Underground- All Areas) tim.mittasch@bluebonnet.coop Cell: (979) 540-7159
Daniel Fritsche (Bastrop Area) daniel.fritsche@bluebonnet.coop Office: (979) 542-8514 Cell: (979) 542-8546	Carl Miller (Underground Inspector) carl.miller@bluebonnet.coop Cell: (979) 540-6495	Joe Hernandez (Underground Inspector) jose.hernandez@bluebonnet.coop Cell: (720) 670-7299