

**** INSTALL PRIMARY ELBOW ARRESTORS
IN ALL PADMOUNT TRANSFORMERS AND
PRIMARY ENCLOSURES THAT ARE AT THE
END OF RADIAL FEEDS ***

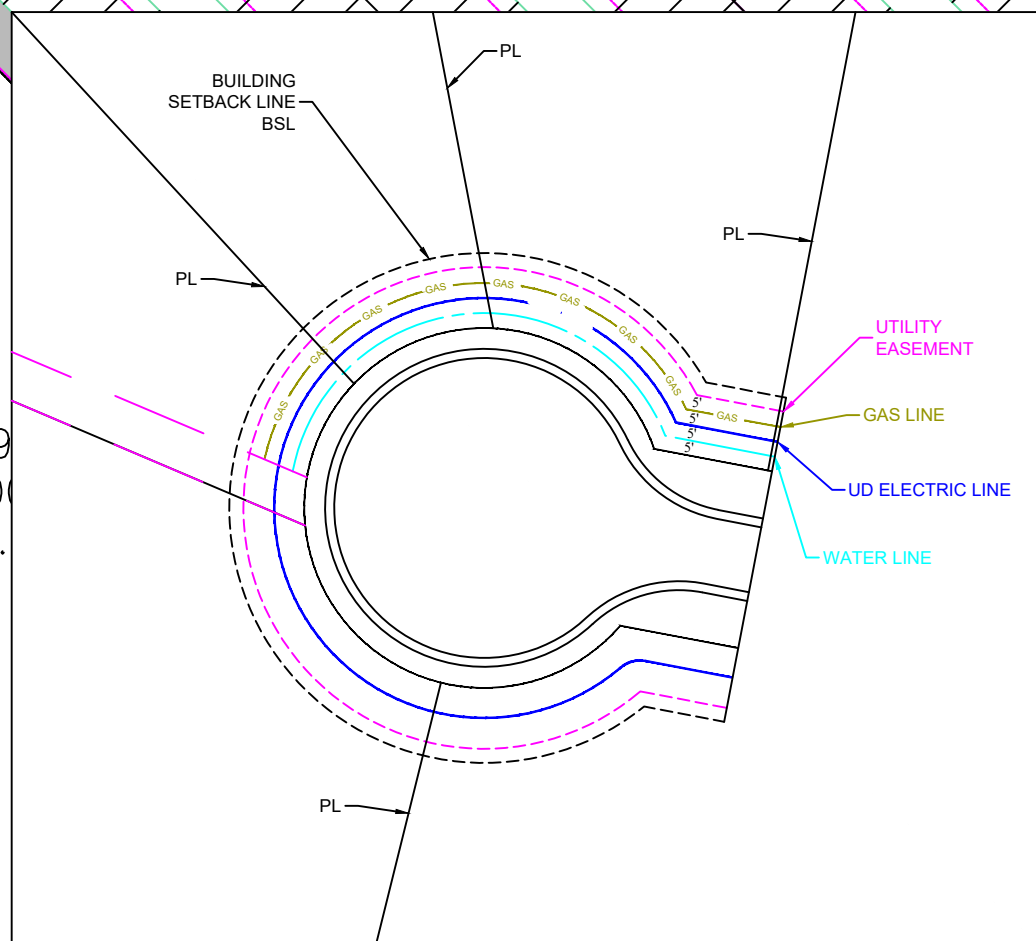
****FINAL LOCATION OF UNDERGROUND
INFRASTRUCTURE (XFMR'S, PVC DUCT BANK,
ETC) WILL BE COORDINATED WITH AND
APPROVED AS PER NBU INSPECTOR

* ALL CONSTRUCTION NOTATIONS ON PROJECT DWG HAVE
BEEN COORDINATED WITH AND APPROVED
AS PER NBU ELECTRICAL ENGINEERING DEPT.

CONFIRM WITH DEVELOPER FOR EXACT LOCATION OF PROPOSED
SIDEWALK ON DRAWING.
ON THIS DRAWING FRONT OF SIDEWALK STARTS AT BACK OF CURB.

*** ALL UD SECONDARY STUB OUTS WILL BE 3" PVC
IN SIZE AND MINIMUM 10' (FT.) IN LENGTH TO
BACK EDGE OF EASEMENT.

CALL 44.29
DOC#20040601
O.P.R.C.C.



TYPICAL UTILITY LAYOUT
N.T.S.

*** ANY POTENTIAL AREA ALONG SIDE PROPERTY LOT ALIGNMENT AND/OR BACK PROPERTY
ALIGNMENT -- THAT WILL NOT BE AVAILABLE FOR UD ELECTRIC LOOP FEED DESIGN DUE ==
TOO STEEP GRADES AND/OR NON-ACCESSIBLE BY VEHICLES AND/OR CONSTRUCTION EQUIPMENT

*** THE QUANTITIES SHOWN ON THE PLANS AND THE BID DOCUMENTS ARE ESTIMATED
QUANTITIES AND BASED ON THE PLAN SET AND TO BE USED FOR BIDDING PURPOSE
ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES. THE
CONTRACTOR SHALL BE RESPONSIBLE TO RESOLVE ANY PERCEIVED DISCREPANCIES IN
THE QUANTITIES WITH THE OWNER PRIOR BEGINNING ANY CONSTRUCTION WORK.

ALL NON - NBU UD ELECTRIC INFRASTRUCTURE (GAS - WATER - SEWER - ETC.)
NOTED ON PROJECT PLAN SET DWG PROVIDED BY OTHERS.

**NBU CONSTRUCTION NOTATIONS ON UNDERGROUND PROJECT PLAN SET
DWGS:**

* ALL NEW NBU INFRASTRUCTURE INSTALLED IN RESPECTIVE UTILITY EASEMENT AREAS AS
NOTED ON PROJECT DWG
* LINES NOTED ON PROJECT DRAWING FOR CONSTRUCTION REFERENCE PURPOSES ONLY

TERMS AND CONDITIONS

1. All locations of property lines, property pins, P.C. and P.T. and other related points shall be the responsibility of the contractor during the construction phase of utilities.
2. If after final lot pin placement any electric equipment is not in the correct location, the responsibility of relocation shall be the contractor/developer to correct the situation.
3. Street light location shall be dependent on location of sidewalk.
4. NBU electric ditch line shall be 3' from front property line as per NBU Electric Inspector approval.
5. All final grades shall be the responsibility of developer/contractor to verify before pouring of all foundations for NBU electric equipment.
6. Any changes to design shall be coordinated with and okayed by NBU Electric Engineering Dept.

DISTANCES NOTED ON THE DWG ARE POINT TO POINT
== DOES NOT INCLUDE "UP" & "DOWN" ROUTING OF PVC
IN AND OUT OF ELECTRIC EQUIPMENT (XFMR'S, PRIMARY
ENCLOSURES, SECONDARY ENCLOSURES, ETC.)

****DISTANCES DO NOT ACCOUNT FOR ANY CHANGE OF
DIRECTION OF DITCHLINE, IF NEEDED, DURING FIELD
INSTALLATION OF THE PVC DUCT BANK

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PER NBU ELECTRICAL ENGINEERING DEPT.

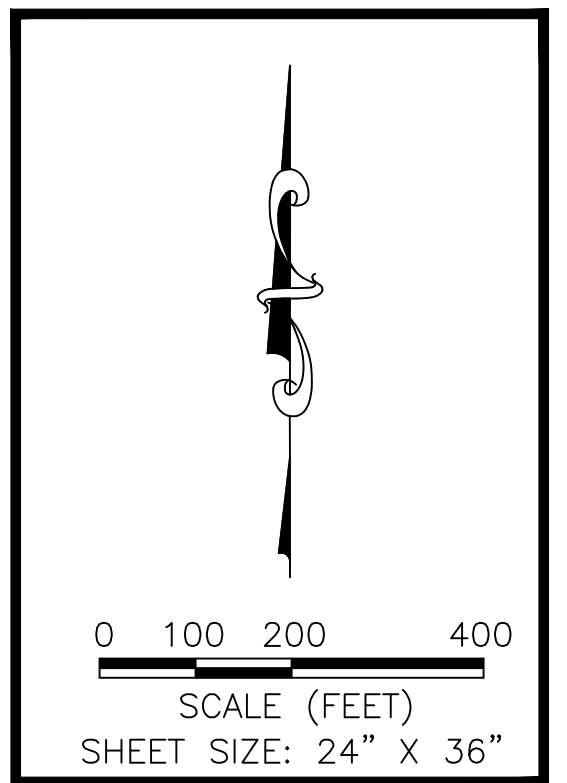
**ALL KNOWN AREA COMMUNICATION PROVIDERS
WERE REQUESTED TO LOCATE THEIR RESPECTIVE FACILITIES.
SOME DID NOT COMPLY AND SOME GAVE AN INCOMPLETE RESPONSE.

** ACCORDINGLY, THE DRAWINGS ONLY DEPICT THE INFORMATION
THAT WAS TRANSFERRED VIA THE LINE LOCATE REQUESTS.
THEREFORE, THE INFORMATION REGARDING THE COMMUNICATION
FACILITIES IS INCOMPLETE

LEGEND

GREEN = EXISTING
BLUE = NEW
RED = REMOVE

- SECONDARY ENCLOSURE W/ STUBOUT
- KVA TRANSFORMER W/ STUBOUT
- PRI PULL BOX WITH 3 OR 4 PLACE MOLD
- METAL POLE
- ANTIQUE STREET LIGHT
- STREET LIGHT
- 3Ø 1/0 PRIMARY AND/OR 4/0 PRIMARY
- 1Ø 1/0 PRIMARY
- 500 SECONDARY
- 350 SECONDARY
- 1/0 SECONDARY
- 4/0 SECONDARY
- STREET LIGHT CIRCUIT; 1 1/4" C WITH #12 UF
- 3Ø PRIMARY STUB OUT
- 1Ø PRIMARY STUB OUT

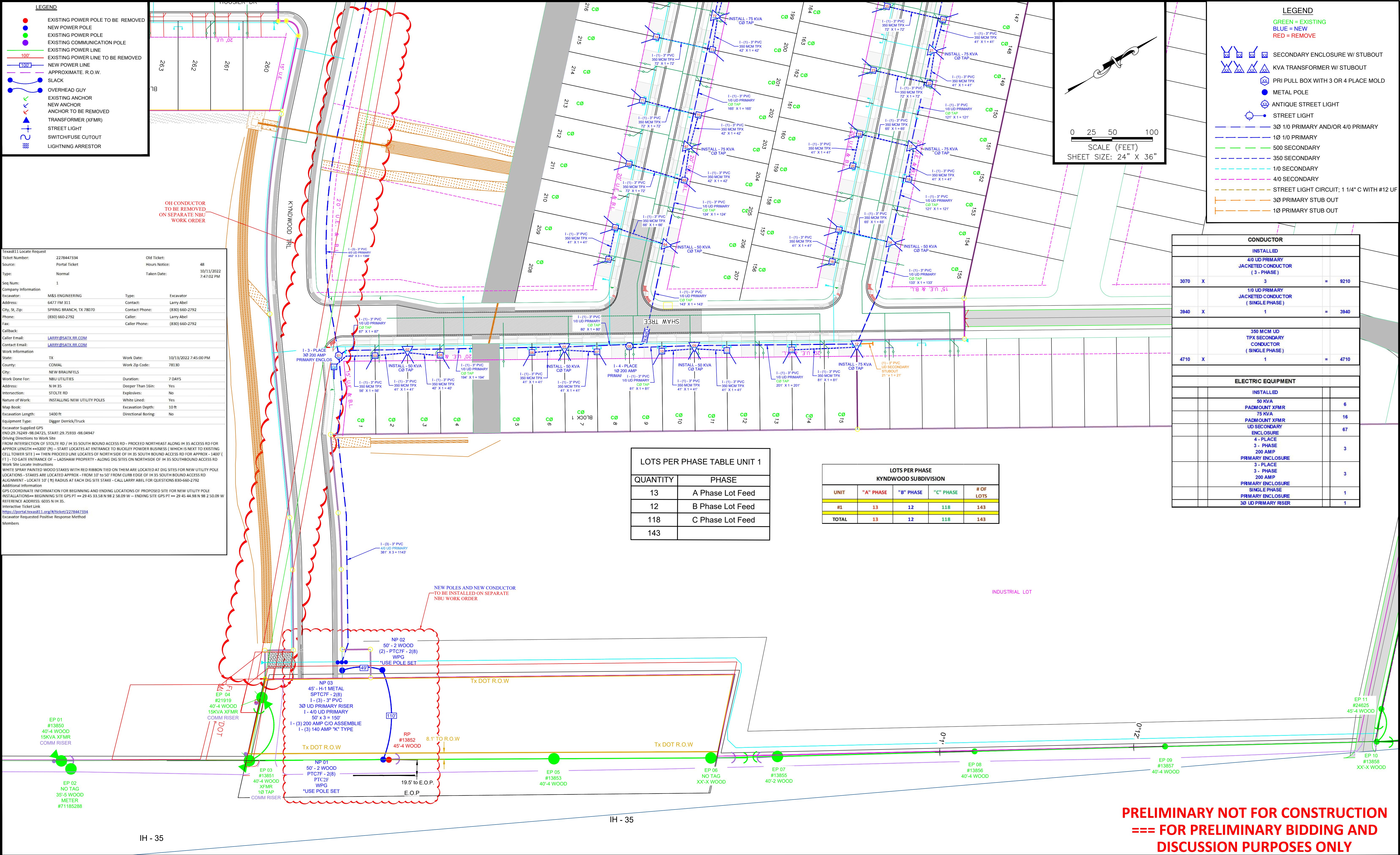


CONDUCTOR			
INSTALLED			
4/0 UD PRIMARY JACKETED CONDUCTOR (3 - PHASE)			
3070	X	3	= 9210
1/0 UD PRIMARY JACKETED CONDUCTOR (SINGLE PHASE)			
3940	X	1	= 3940
350 MCM UD TPX SECONDARY CONDUCTOR (SINGLE PHASE)			
4710	X	1	= 4710
ELECTRIC EQUIPMENT			
INSTALLED			
50 KVA PADMOUNT XFMR			
			6
75 KVA PADMOUNT XFMR			
			16
UD SECONDARY ENCLOSURE			
			67
4 - PLACE 3 - PHASE 200 AMP PRIMARY ENCLOSURE			
			3
3 - PLACE 3 - PHASE 200 AMP PRIMARY ENCLOSURE			
			3
SINGLE PHASE PRIMARY ENCLOSURE			
			1
3Ø UD PRIMARY RISER			
			1

* ALL WATER METER STUB OUTS
SHALL BE 5' OFF SIDE LOT LINE ALIGNMENTS.

**PRELIMINARY NOT FOR CONSTRUCTION
=== FOR PRELIMINARY BIDDING AND
DISCUSSION PURPOSES ONLY**

MATCHLINE -REFER TO SHEET 2



Texas811 Locate Request
Ticket Number: 2278447334
Source: Portal Ticket
Type: Normal
Seq Num: 1
Company Information
Excavator: M&S ENGINEERING
Address: 6477 FM 311
City, St, Zip: SPRING BRANCH, TX 78070
Phone: (830) 660-2792
Fax: (830) 660-2792
Callback: LARRY@SATX.BB.COM
Contact Email: LARRY@SATX.BB.COM
Work Information
State: TX
County: COMAL
City: NEW BRAUNFELS
Work Done For: NBU UTILITIES
Address: N IH 35
Intersection: STOLTE RD
Nature of Work: INSTALLING NEW UTILITY POLES
Map Book: 1400 ft
Excavation Length: 1400 ft
Equipment Type: Digger Derrick/Truck
Excavator Supplied GPS: END:29.76249 -98.04725, START:29.75933 -98.04947
Driving Directions to Work Site
FROM INTERSECTION OF STOLTE RD / IH 35 SOUTH BOUND ACCESS RD - PROCEED NORTHEAST ALONG IH 35 ACCESS RD FOR APPROX LENGTH = 3200' (H) - START LOCATES AT ENTRANCE TO BUCKLEY POWDER BUSINESS (WHICH IS NEXT TO EXISTING CELL TOWER SITE) - THEN PROCEED LINE LOCATES OF NORTH SIDE OF IH 35 SOUTH BOUND ACCESS RD FOR APPROX - 1400' (FT) - TO GATE ENTRANCE OF - LADSHAW PROPERTY - ALONG DIG SITES ON NORTHSIDE OF IH 35 SOUTH BOUND ACCESS RD
Work Site Locate Instructions
WHITE SPRAY PAINTED WOOD STAKES WITH RED RIBBON TIED ON THEM ARE LOCATED AT DIG SITES FOR NEW UTILITY POLE LOCATIONS - STAKES ARE LOCATED APPROX - FROM 10' TO 50' FROM CURB EDGE OF IH 35 SOUTH BOUND ACCESS RD ALIGNMENT - LOCATE 10' (H) RADIUS AT EACH DIG SITE STAKE - CALL LARRY@SATX.BB.COM FOR QUESTIONS 830-660-2792
Additional Information
GPS COORDINATE INFORMATION FOR BEGINNING AND ENDING LOCATIONS OF PROPOSED SITE FOR NEW UTILITY POLE INSTALLATIONS= BEGINNING SITE GPS PT = 29.45 33.58 N 98 2 38.09 W -- ENDING SITE GPS PT = 29.45 44.98 N 98 2 50.09 W
REFERENCE ADDRESS: 6035 N IH 35
Interactive Ticket Link
<https://portal.texas811.org/ticket/2278447334>
Excavator Requested Positive Response Method
Members

LOTS PER PHASE TABLE UNIT 1	
QUANTITY	PHASE
13	A Phase Lot Feed
12	B Phase Lot Feed
118	C Phase Lot Feed
143	

LOTS PER PHASE KYNDWOOD SUBDIVISION				
UNIT	"A" PHASE	"B" PHASE	"C" PHASE	# OF LOTS
#1	13	12	118	143
TOTAL	13	12	118	143

CONDUCTOR		
INSTALLED		
3070	X	3
4/0 UD PRIMARY JACKETED CONDUCTOR (3 - PHASE)		
3940	X	1
1/0 UD PRIMARY JACKETED CONDUCTOR (SINGLE PHASE)		
4710	X	1
350 MCM UD TPX SECONDARY CONDUCTOR (SINGLE PHASE)		
ELECTRIC EQUIPMENT		
INSTALLED		
50 KVA		6
PADMOUNT XFMR		
75 KVA		16
PADMOUNT XFMR		
UD SECONDARY ENCLOSURE		67
4 - PLACE		
3 - PHASE		3
200 AMP		
PRIMARY ENCLOSURE		
3 - PLACE		
3 - PHASE		3
200 AMP		
PRIMARY ENCLOSURE		
SINGLE PHASE		1
PRIMARY ENCLOSURE		
30 UD PRIMARY RISER		1

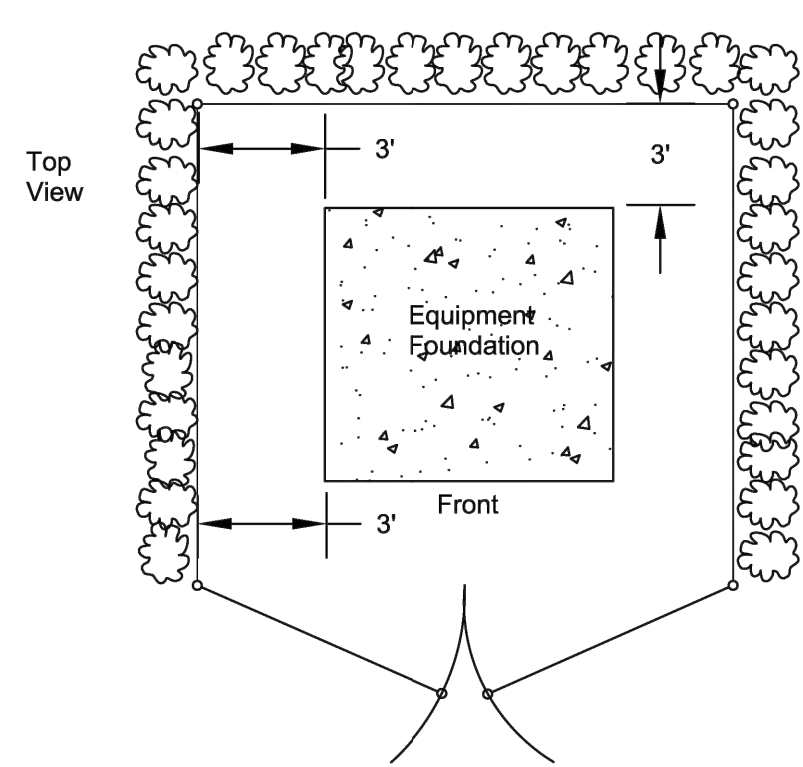
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TEXAS REGISTERED ENGINEERING FIRM
F-1394

ELECTRIC ENGINEERING		NOTES		PROJECT/OWNER	
DATE	REV	DESCRIPTION	SCALE	PROJECT	OWNER
03/20/2022	1	ISSUED FOR BIDDING	1" = 50'	KYNDWOOD UNIT 1 UD	J. KRAUSE
03/20/2022	2	REVISED	86, 87		
03/20/2022	3	REVISED	1 OF 5		

This specification shall be used only in conjunction with the NBU Electrical Connection Policy and may not reflect all requirements of a specific installation.

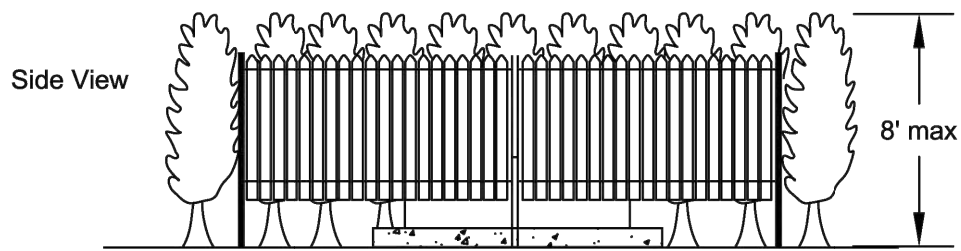


Transformer or pullbox location must be accessible at all times. Clearance around NBU equipment to any barrier shall be 3' minimum.

Any installation that would enclose any metering/disconnect assembly within the barrier shall be approved by NBU.

Barrier can be vegetation, chain link, wood, concrete block, or appropriate material. Fencing/gate material shall be designed to allow for adequate air circulation around equipment and is subject to NBU approval.

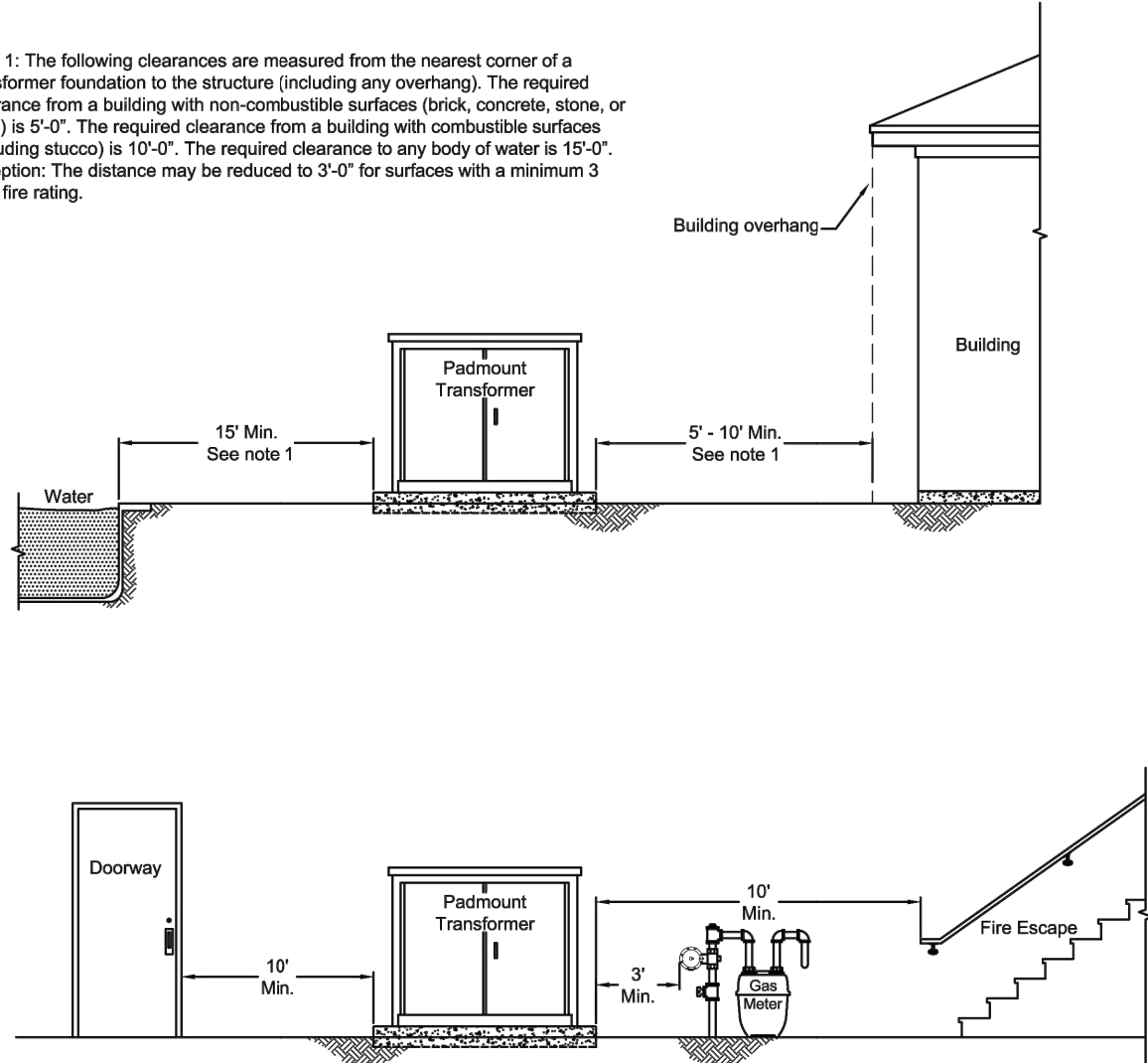
Site grading within the front 10' of a foundation shall not exceed a 7:1 slope. Access infrastructure, if necessary, shall be built as permanent structures, and shall meet requirements of any applicable right-of-way owner.



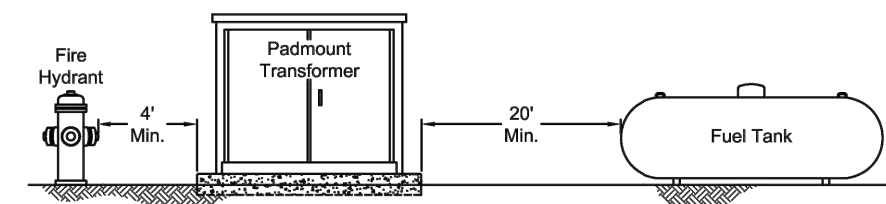
Electric Engineering
355 FM 306
PO Box 310289
New Braunfels, TX 78131-0289
830-608-8951

PADMOUNT EQUIPMENT BARRIER CLEARANCES			
ISSUED	SCALE	DRAWING NUMBER	
10/18	NTS	EU-500	

Note 1: The following clearances are measured from the nearest corner of a transformer foundation to the structure (including any overhang). The required clearance from a building with non-combustible surfaces (brick, concrete, stone, or steel) is 5'-0". The required clearance from a building with combustible surfaces (including stucco) is 10'-0". The required clearance to any body of water is 15'-0". Exception: The distance may be reduced to 3'-0" for surfaces with a minimum 3 hour fire rating.



Note 2: Per the National Electric Safety Code rule 3800 padmounted equipment and other above ground electrical equipment should be located not less than 4'-0" from fire hydrants. Exception: Where conditions do not permit a clearance of 4'-0", a clearance of not less than 3'-0" is allowed.



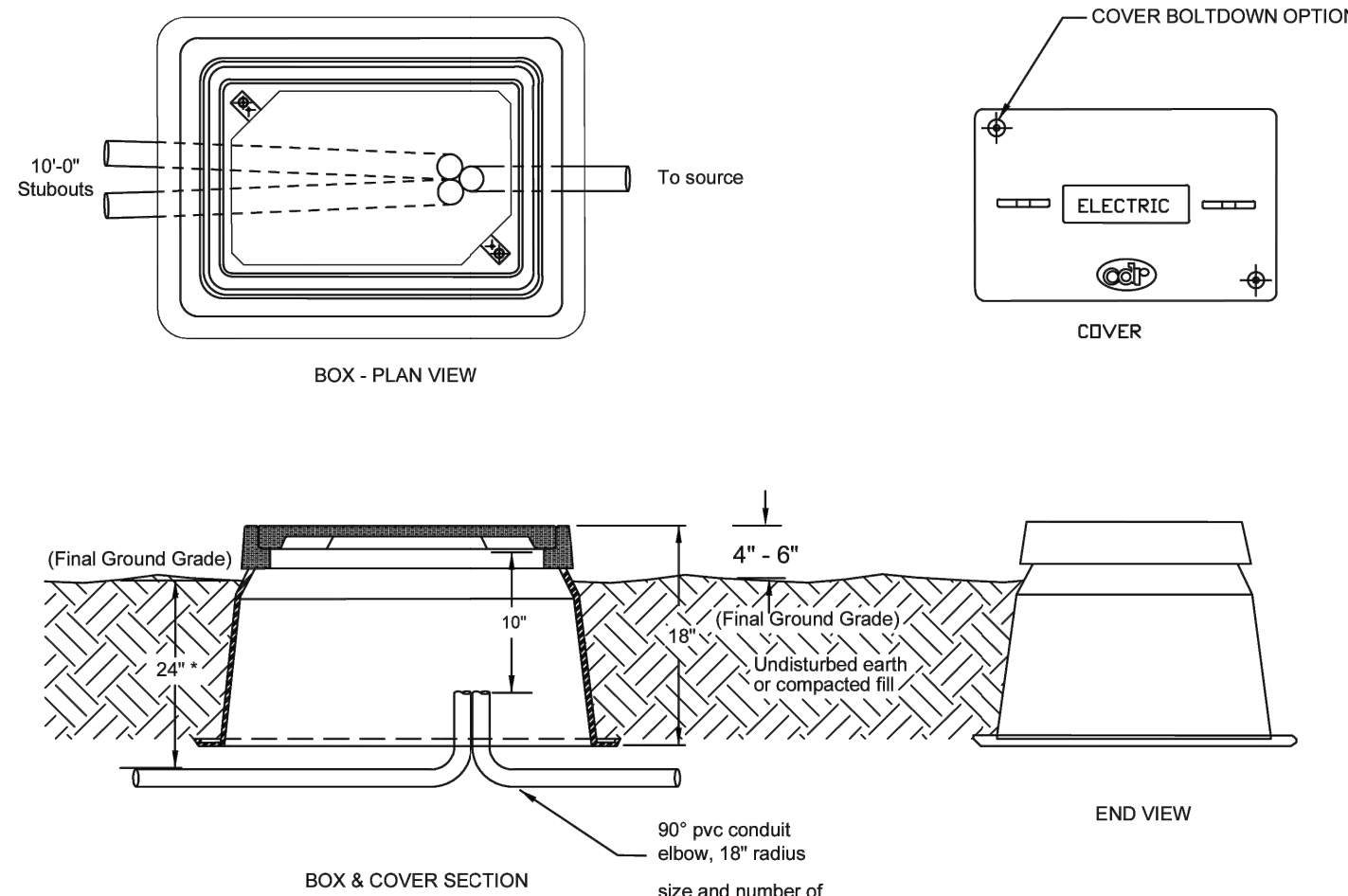
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MINIMUM CLEARANCES FROM PADMOUNT EQUIPMENT PADS			
ISSUED	SCALE	DRAWING NUMBER	
10/18	NTS	EU-501	

This specification shall be used only in conjunction with the NBU Electrical Connection Policy and may not reflect all requirements of a specific installation.

The electric system layout design, to include secondary enclosure locations, is determined by NBU.

*Additional depth maybe required at the discretion of a NBU Electric Inspector.



Enclosure furnished and installed by customer/developer.
Enclosure shall be manufactured by CDR Systems Corporation.
Box = B10132418A Cover = C10132402A017

If installed in street, alley, or driveway.
Box = B12132418A Cover = C12132402A017

Note: Size of enclosure shall be determined by NBU.
Make sure that conduit is not located under lip of box.
Primary and Secondary stubouts shall be determined by NBU



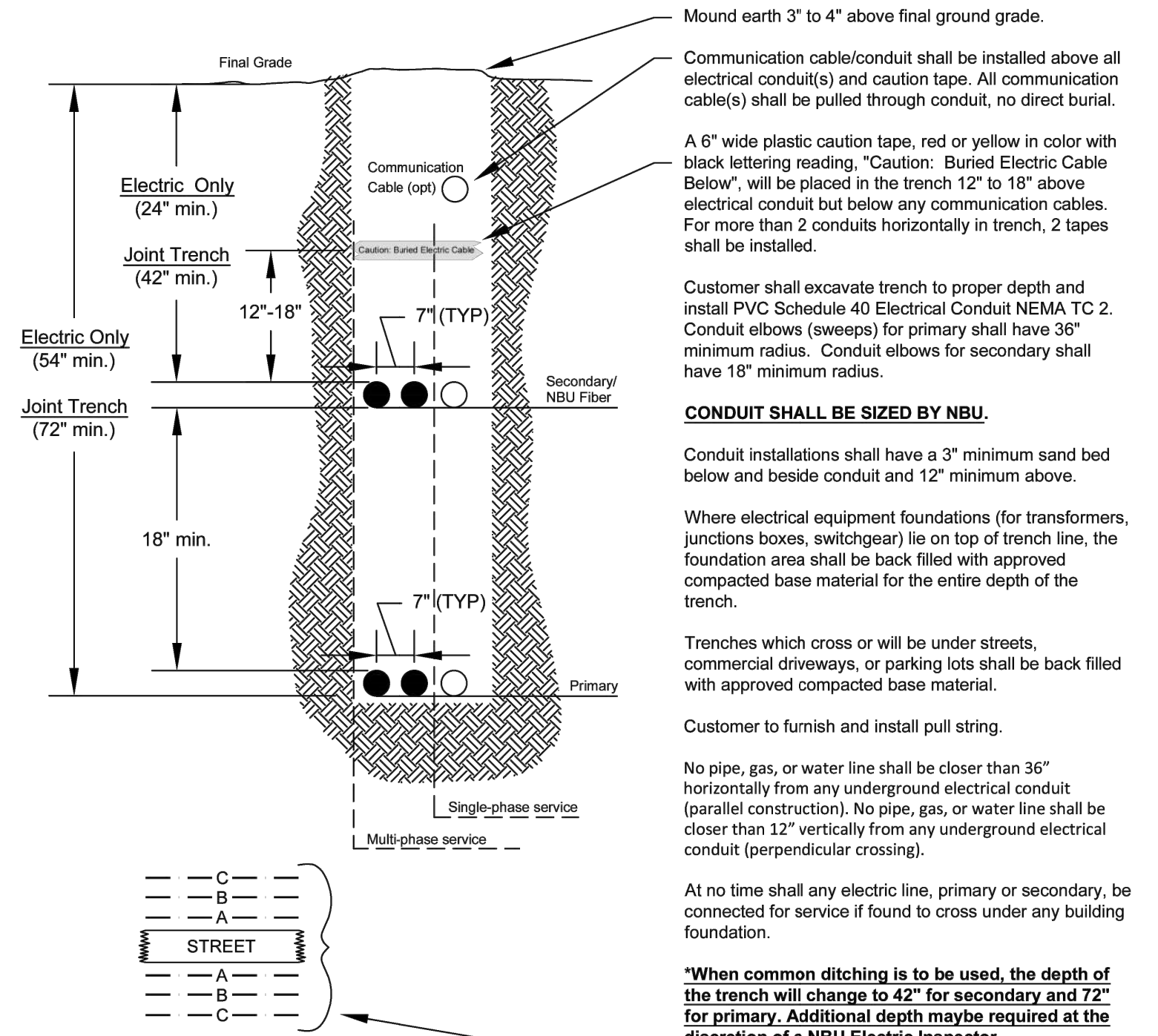
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SECONDARY ENCLOSURE			
ISSUED	SCALE	DRAWING NUMBER	
12/20	NTS	EU-210	

This specification shall be used only in conjunction with the NBU Electrical Connection Policy and may not reflect all requirements of a specific job.

Locations are determined by NBU. All customer installations require inspection by NBU.

All Primary and Secondary stubouts shall be 5' minimum.



Communication cable/conduit shall be installed above all electrical conduit(s) and caution tape. All communication cable(s) shall be pulled through conduit, no direct burial.

A 6" wide plastic caution tape, red or yellow in color with black lettering reading, "Caution: Buried Electric Cable Below", will be placed in the trench 12" to 18" above electrical conduit but below any communication cables. For more than 2 conduits horizontally in trench, 2 tapes shall be installed.

Customer shall excavate trench to proper depth and install PVC Schedule 40 Electrical Conduit NEMA TC 2. Conduit elbows (sweeps) for primary shall have 36" minimum radius. Conduit elbows for secondary shall have 18" minimum radius.

CONDUIT SHALL BE SIZED BY NBU.

Conduit installations shall have a 3" minimum sand bed below and beside conduit and 12" minimum above.

Where electrical equipment foundations (for transformers, junctions boxes, switchgear) lie on top of trench line, the foundation area shall be back filled with approved compacted base material for the entire depth of the trench.

Trenches which cross or will be under streets, commercial driveways, or parking lots shall be back filled with approved compacted base material.

Customer to furnish and install pull string.

No pipe, gas, or water line shall be closer than 36" horizontally from any underground electrical conduit (parallel construction). No pipe, gas, or water line shall be closer than 12" vertically from any underground electrical conduit (perpendicular crossing).

At no time shall any electric line, primary or secondary, be connected for service if found to cross under any building foundation.

"When common ditching is to be used, the depth of the trench will change to 42" for secondary and 72" for primary. Additional depth maybe required at the discretion of a NBU Electric Inspector.

For multi-phase service, conductor phase orientation shall be as shown unless approved otherwise by NBU.



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355 FM 306
PO Box 310289
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830-608-8951

UNDERGROUND CONDUIT INSTALLATION			
ISSUED	SCALE	DRAWING NUMBER	
6/21	NTS	EU-910	

This specification shall be used only in conjunction with the NBU Electrical Connection Policy and may not reflect all requirements of a specific installation.

Locations are determined by NBU. All customer installations require inspection by NBU.

A, B, C = Conductor phase. Phase orientation shall be verified prior to installation.

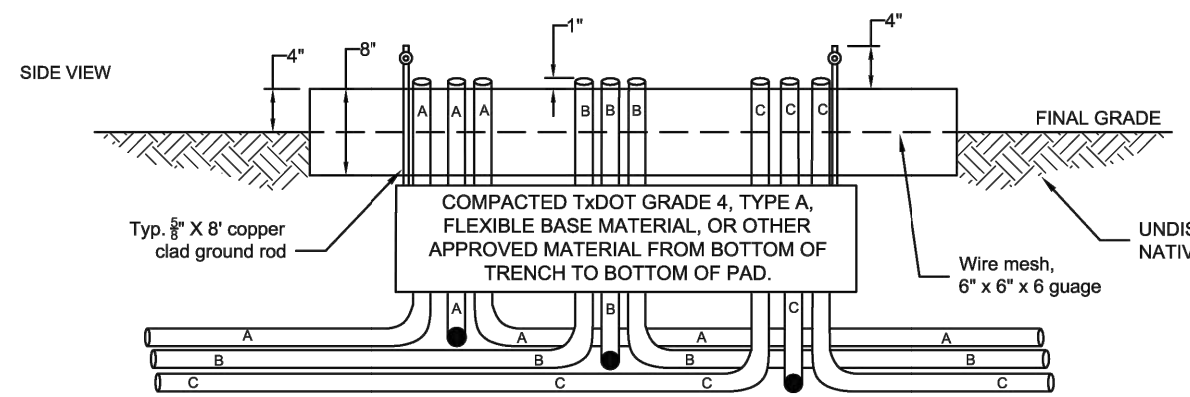
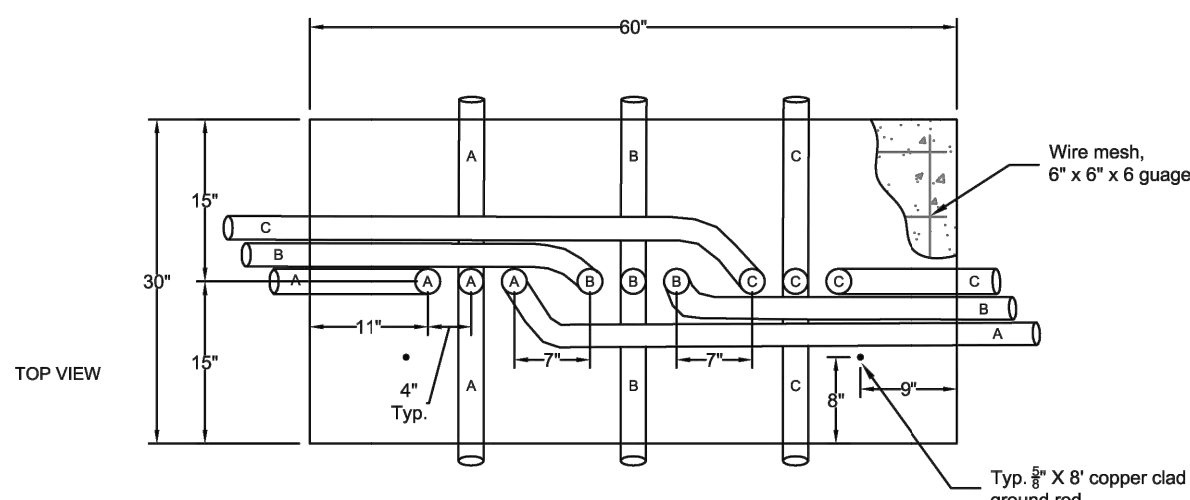
Underground conduit to be installed according to NBU specification EU-910. Conduit to be sized by NBU and have 1" projection above concrete, 36" radius, 90° sweeps. Pull string to be installed by customer.

Copper-clad ground rods, 5/8" x 8', 2 required, to have 4" projection above top on concrete.

Concrete shall be 3000 PSI minimum.

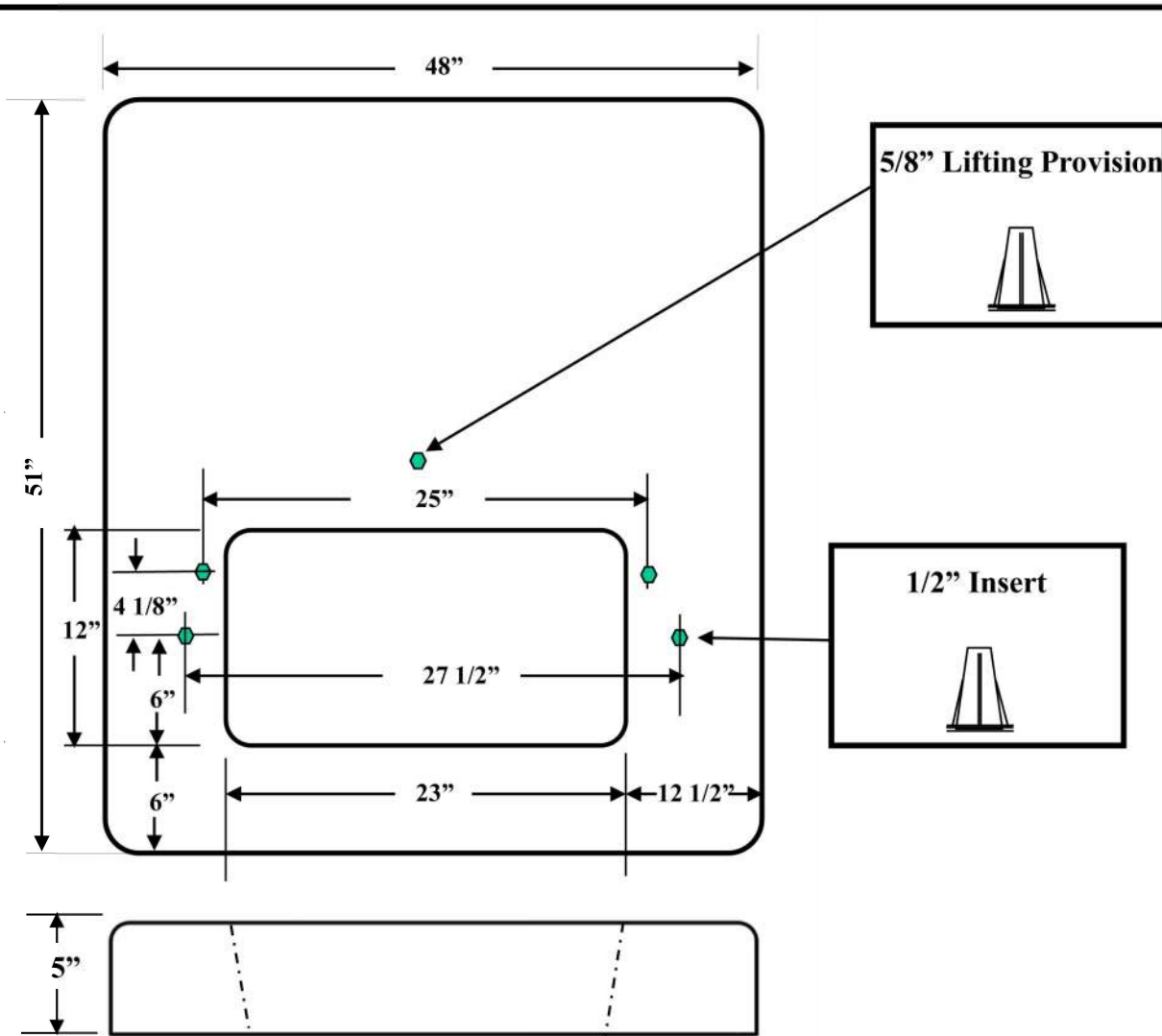
All primary shall be 5' minimum.

Conduit positions, concrete forms, re-bar, and trench compaction to be approved by NBU before concrete is poured



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THREE PHASE 3 PLACE, 200AMP PRIMARY ENCLOSURE PAD			
ISSUED	SCALE	DRAWING NUMBER	
10/18	NTS	EU-315	



DiversiTech
F4851-541L1223
28 January 2019
Scale: Not To Scale

Item	Width (in)	Length (in)	Thickness (in)	Cable Opening	Weight (Lbs)
F4242-32CL1224	42"	42"	3"	12" x 24"	190
F4242-32CL1328	42"	42"	3"	13" x 28"	190
F4059-32CL1128	40"	59"	3"	11" x 28"	255
F4245-44IL1125	42"	45"	3"	11" x 25"	270

Built with Precision
Built to Last.
Simply your Work.

Producing
Fiber Reinforced Transformer Pads
Specifically for the Utility Industry

Since 1972, DiversiTech has developed proprietary technologies in advancing the engineering, design, and functionality of equipment pads across multiple industry segments. We have become a leading supplier of transformer mounting solutions serving Utilities throughout North America with our unique blend of Fiber Reinforced Concrete.

A BETTER PAD. A BETTER SOLUTION.

Our Fiber Reinforced pads offer superior compression, tensile, and deflection strength while being significantly less weight than other concrete foundations. Our Utility pads are specifically engineered and manufactured with reinforcement beams and steel to provide superior longevity as compared to other pads options.

DiversiTech Utility has two manufacturing facilities supporting our Utility Pad business. Strategically located in Conyers, Georgia and Columbus, Texas; these locations serve the North America market with the full array of transformer mounting products. Our product line is supported by experienced engineers, manufacturing, and quality professionals to ensure our high-quality standards are met on every product.

DIVERSITECH Transformer Pads
Call Toll Free 1-878-542-3600 x1015

Flat Pad Solutions Box Pad Solutions Specialty Pad Solutions Contact Us DiversiTech.com

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Flat Pad Solutions

Our Flat Pad provides stability, strength and confidence of an exceptional foundation for many equipment applications.

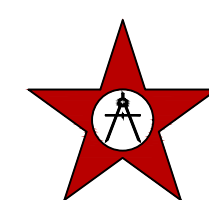
Made from our Fiber Reinforced blend, the DiversiTech Flat Pads provide exceptional strength at half the weight of conventional pads. Cast and cured into a monolithic slab, these pads are further reinforced with steel rebar to provide the longevity leading Utilities demand. The pads are warranted against defects in materials and workmanship for the life of the equipment they support.

These pads are available in many sizes and configurations, including various cable openings dimensions, zinc alloy inserts for mounting and a lifting provision to ease in field installation.

Click here to contact us for all custom-engineered sizes.

SPECIFIC NBU STANDARD DETAILS AND/OR SPECIFICATIONS, AS REFERENCED IN THIS PLAN SET, HAVE BEEN REVIEWED AND AUTHORIZED BY USE FOR THIS PROJECT UNDER THE AUTHORITY OF BRIAN SCOTT MEUTH, TEXAS PE #80648. FOR FULL NBU STANDARD DETAILS AND SPECIFICATIONS, VISIT THEIR WEBSITE AT NBUTEXAS.COM

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F-1394

ELECTRIC ENGINEERING		NOTES		PROJECT LOCATION	
355 FM 306 P.O. BOX 310289 NEW BRAUNFELS TEXAS, 78131 830-608-8951		NEW CAMP PRIVATE		KYNWOOD UNIT 1 UD	
DATE CL	DATE EL	DATE ME	SCALE	REV NO	REV BY
			N.T.S.		
REVISED CL	DATE	CONTRIS	PROBOS	86, 87	J. KRAUSE
DATE CL	DATE CL	PROJECT NO	I-C09EXT	PAGE	3 OF 5
					189467

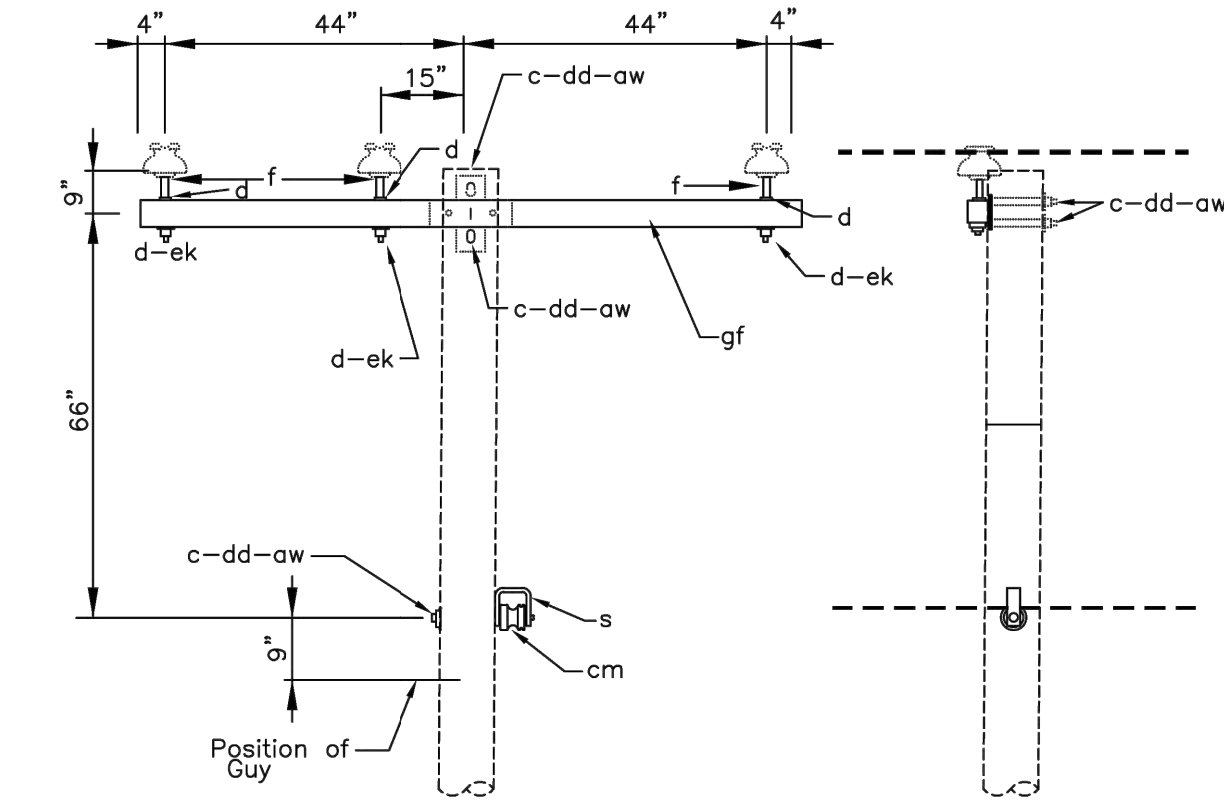
Date: 12/6/2022 8:42 AM User: JUSTIN KRAUSE
File: T:\NBU\FY 2022\UD\KYNDWOOD UNIT 1\KYNDWOOD UNIT 1 UD.DWG

32002000032	aw	WASHER DOUBLE COIL 5/8"	3
32002000042	ca	BOLT ATE 5/8" X 12"	3
28504300006	cm	INSULATOR SPOOL, ANSI CLASS 53-2	1
32002000034	d	WASHER SQUARE, 2 1/4" X 3/16"	6
32002000035	dd	WASHER SQUARE CURVED, 3" X 1/4"	3
32002000060	ek	SQUARE LOCKNUT 5/8"	3
28510600027	f	PIN STEEL 6 1/2" SHANK	3
54006500003	gf	CROSSARM 8FT. HEAVYWALL, FIBERGLASS- BRACELESS	1
28510600019	s	CLEVIS SECONDARY	1

PHASE INSULATOR AND ATTACHMENT				
28504300004	a	INSULATOR PIN PORCELIN, 13.2 KV	3	
28505000177	ah	TIE LINE SUPER TOP, #4 ACSR	3	A
28504300004	a	INSULATOR PIN PORCELIN, 13.2 KV	3	
28505000176	ahh	TIE LINE SUPER TOP, #2 ACSR	3	B
28504300004	s	INSULATOR PIN PORCELIN, 13.2 KV	3	
28505000175	ahhh	TIE LINE SUPER TOP, 1/0 ACSR	3	C
28504300005	aa	INSULATOR PIN PORCELIN, 13.2 KV V-18	3	
28505000171	ahhhh	TIE SINGLE 336.4 ACSR	3	D
28504300005	aa	INSULATOR PIN PORCELIN, 13.2 KV V-18	3	
28505000173	ahaa	TIE SINGLE 795 AAC	3	E

NEUTRAL ATTACHMENT				
28505000177	ah	TIE LINE SUPER TOP, #4 ACSR	1	
28505000032	pl	CONNECTOR WIDE RANGE, TAP WR-159	1	1
28505000176	ahh	TIE LINE SUPER TOP, #2 ACSR	1	
28505000032	pl	CONNECTOR WIDE RANGE, TAP WR-159	1	2
28505000175	ahhh	TIE LINE SUPER TOP, 1/0 ACSR	1	
28505000182	phl	LINKIT LG WR-289	1	3
28505000171	ahhhh	TIE SINGLE 336.4 ACSR	1	
28505000010	cp	CLAMP PARALLEL	1	4
28505000193	lg	GUARD LINE 795 AAC	1	
28505000102	cp	CLAMP PARALLEL	1	5

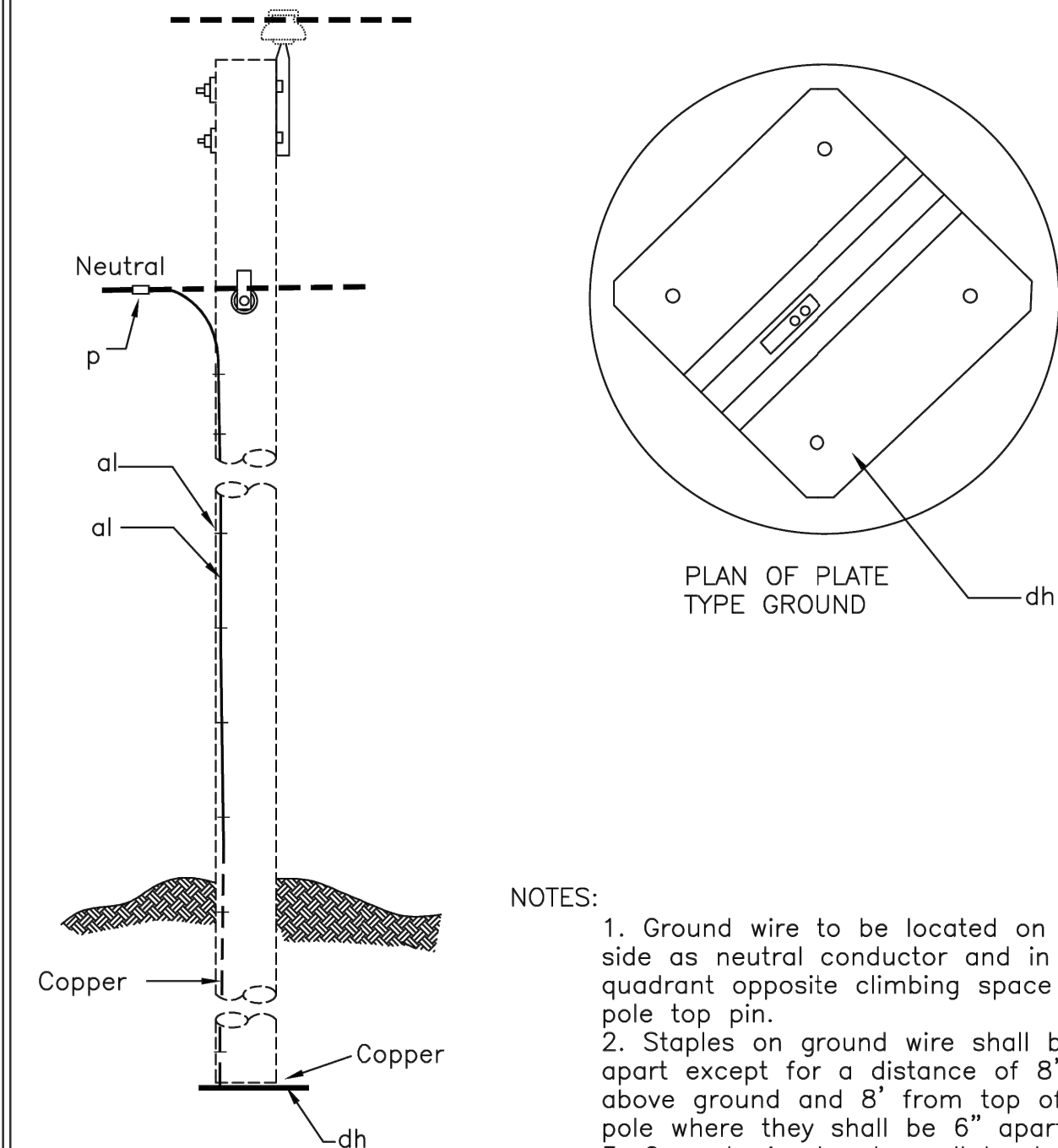
NEW BRAUNFELS UTILITIES 355 FM 306 P.O. BOX 310289 NEW BRAUNFELS, TX 78131-0289 ELECTRIC ENGINEERING (830) 608-8951		DATE ISSUED	DATE	BY	TITLE	SCALE	DRAWING NO.
		REV.			12.5/7/2 W 3-PHASE FIBERGLASS CROSSARM CONSTRUCTION SINGLE PRIMARY SUPPORT FOR WOOD CONSTRUCTION	NTS	PTC2F
			09/07/2010	M&S			



NOTE:
Phase Insulators and Conductor Attachments
are Separate Units.
Neutral Conductor Attachments are Separate Units.

DESIGN LIMITS
Max. transverse load: Greater than 1000 lbs (larger than 1/0)
Max. line angle within load limits: 0 - 2 degrees

NEW BRAUNFELS UTILITIES 355 FM 306 P.O. BOX 310289 NEW BRAUNFELS, TX 78131-0289 ELECTRIC ENGINEERING (830) 608-8951		DATE ISSUED	DATE	BY	TITLE	SCALE	DRAWING NO.
		REV.			12.5/7/2 W 3-PHASE FIBERGLASS CROSSARM CONSTRUCTION SINGLE PRIMARY SUPPORT FOR WOOD CONSTRUCTION	NTS	PTC2F
			09/07/2010	M&S			

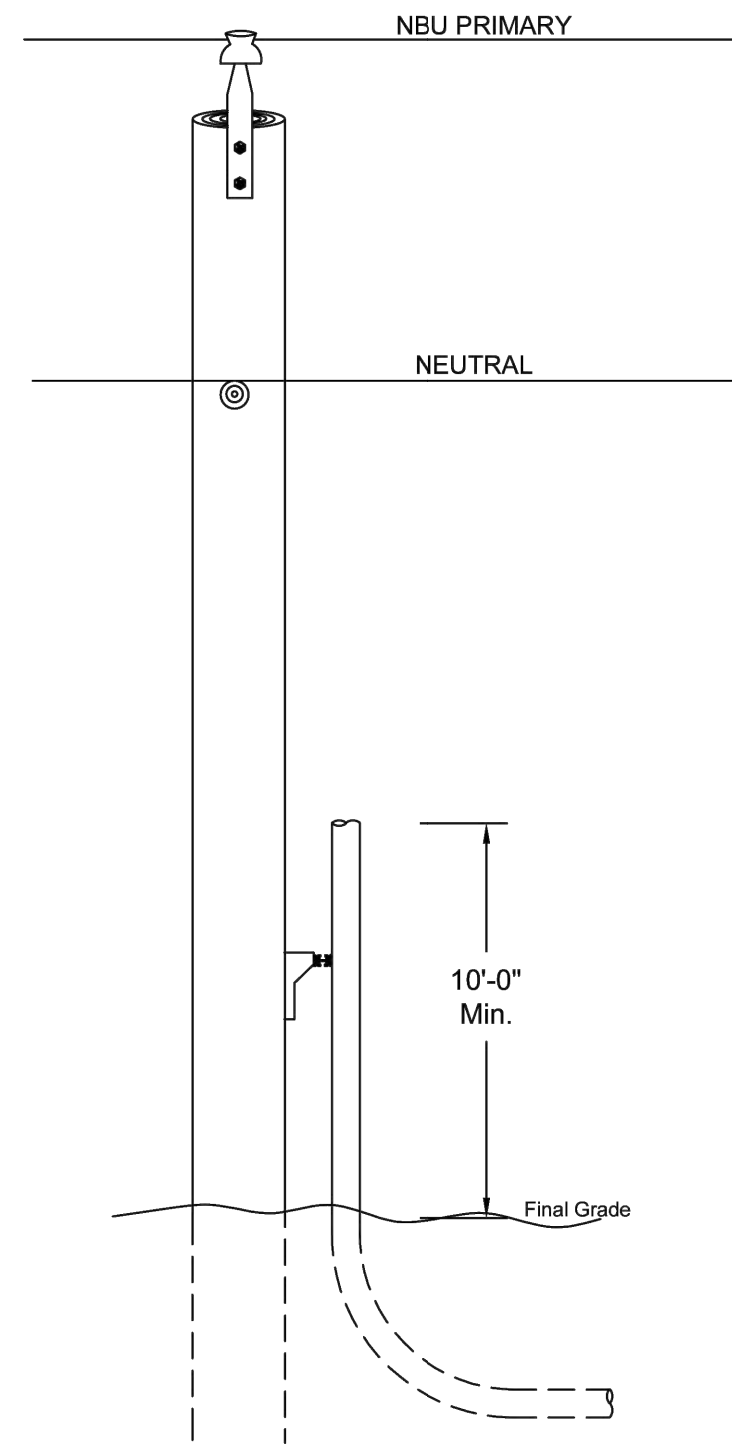


32008600001	al	STAPLES, GALVANIZED	AS REQ
28005800012	cj	WIRE COPPER 6 SOLID SOFT DRAWN	AS REQ
28510600033	dh	PLATE POLE GROUND	1
28509500040	p	CONNECTOR COPPER COMP (RANGE #8 - #4 SOL)	1

NEW BRAUNFELS UTILITIES 355 FM 306 P.O. BOX 310289 NEW BRAUNFELS, TX 78131-0289 ELECTRIC ENGINEERING (830) 608-8951		DATE ISSUED	DATE	BY	TITLE	SCALE	DRAWING NO.
		REV.			POLE GROUND FOR WOOD CONSTRUCTION	NTS	WPG
			3/14/06	Chowers			

This specification shall be used only in conjunction with the NBU Electrical Connection Policy and may not reflect all requirements of a specific installation.

Locations are determined by NBU. All customer installations require inspection by NBU.



Pole and bracket installed by NBU. Call 830-608-8900 when ready for bracket installation. Stub out (to NBU installed riser) must be plumb with pole and attached to bracket by temporary means (taped, wired, etc.)

Offset from pole to center of conduit shall be 7 1/2". Extend conduit 10'-0" min. above final ground grade.

Schedule 80 PVC shall be used for all exposed conduit above ground. Underground conduit, including stub out, is sized by NBU and installed according to specification EU-910. Call 830-608-8951 to verify conduit size.



Electric Engineering
355 FM 306
PO Box 310289
New Braunfels, TX 78131-0289
830-608-8951

RISER POLE STUB OUT		
ISSUED	SCALE	DRAWING NUMBER
12/20	NTS	EU-800

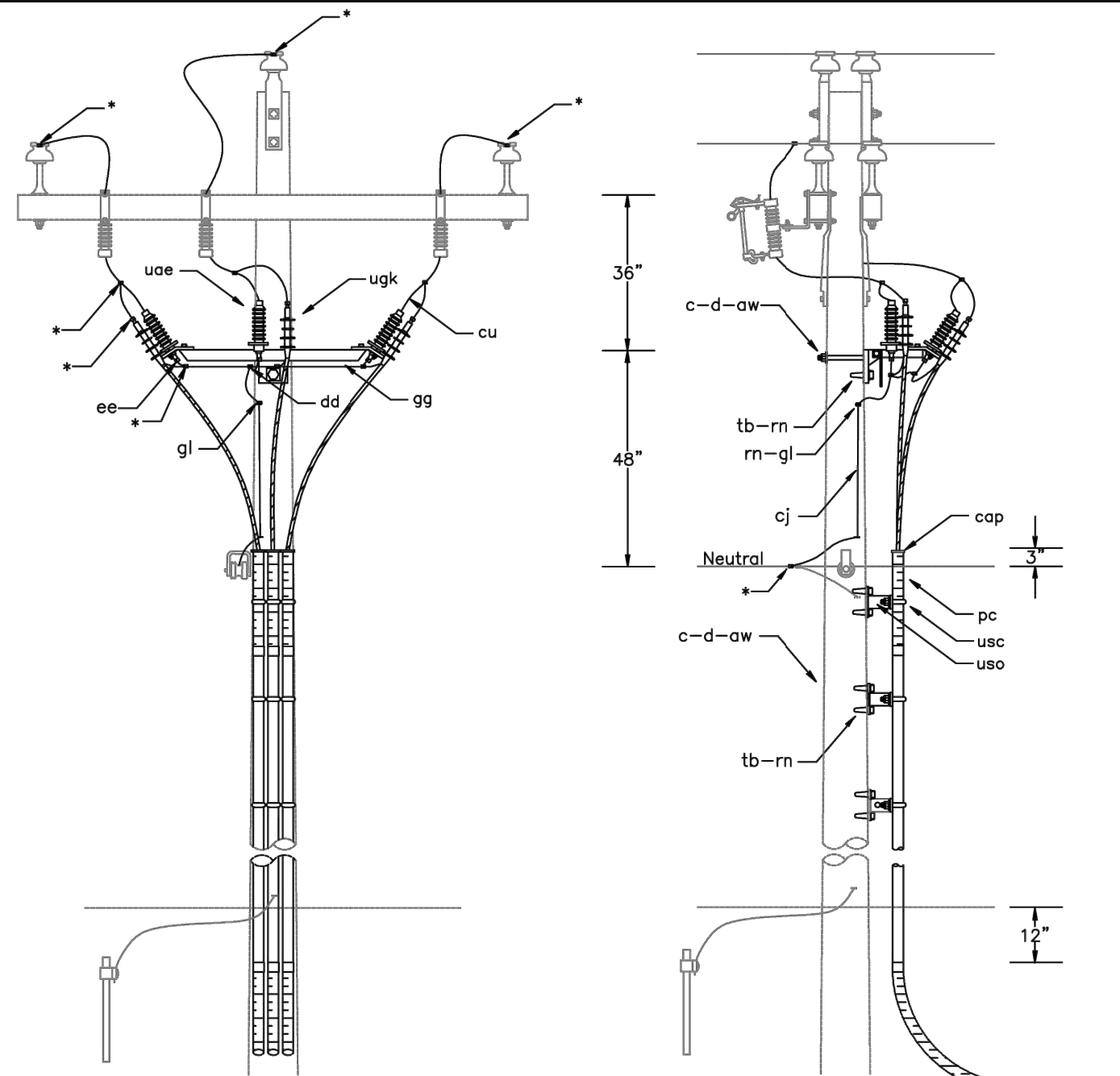
*****	*	CONNECTOR AS REQUIRED	AS REQ
32002000032	aw	WASHER DOUBLE COIL 5/8"	1
32002000034	d	WASHER SQUARE, 2 1/4" X 3/16"	1
32002000020	c	BOLT M 5/8" X 10"	1
28500300003	uae	ARRESTOR RISER POLE, MOV. 9KV	3
32002000056	tb	TAP BOLT 1/2" X 2", STAINLESS STEEL	7
28510600049	rn	RIV NUT, PART #R	9
28005800009	cj	WIRE COPPER 1/0 7 STR. SOFT DRAWN	AS REQ
28509500197	gl	LUIG GROUND, LONG SHANK, FOR STEEL POLE	2
28510600057	uso	CONDUIT STANDOFF BRACKET	2
28510600012	gg	BRACKET TERMINATOR ARRESTOR MOUNT 3 PH	1
28509500209	dd	COPPER COMP. CONN. 2 STR., 1/0 STR X 2 STR., 1/0 STR.	1
28509500207	ee	ARRESTOR CONNECTORS 1/0, BRONZE	3
28005800033	cu	WIRE COPPER 4 SOLID, SOFT DRAWN	AS REQ

CONDUIT APPLICATION			
28501900043	pc	CONDUIT PVC 2", SCH 80, 10FT. LENGTHS	AS REQ
28501900039	cap	CONDUIT CAP 2"	3
28510600058	usc	CONDUIT STRAP KITS 2"	9
28501900044	pc	CONDUIT PVC 3", SCH 80, 10FT. LENGTHS	AS REQ
28501900040	cap	CONDUIT CAP 3"	3
28510600059	usc	CONDUIT STRAP KITS 3"	9
28501900045	pc	CONDUIT PVC 4", SCH 80, 10FT. LENGTHS	AS REQ
28501900046	cap	CONDUIT CAP 4"	3
28510600060	usc	CONDUIT STRAP KITS 4"	9

TERMINATOR APPLICATION				
28509500209	*	COPPER COMP CONN. 2 STR., 1/0 STR X 2 STR., 1/0 STR.	3	
28005800033	cu	WIRE COPPER 4 SOLID, SOFT DRAWN	AS REQ	
28509500167	ugk	TERMINATOR URD 1/0 STR.	3	1
28509500211	*	COPPER COMP CONN #4 - #2 SOL. X #4 - #2 SOL.	3	
28509500040	*	CONNECTOR COPPER COMP. (RANGE #8 - #4 SOL.)	3	
28509500168	ugk	TERMINATOR URD 4/0 STR.	3	
28510600067		CABLE POSITIONER BRACKET	3	
28509500210	*	COPPER COMP CONN #2 - 1/0, STR. X #6 - #2 SOL.	6	2
28005800009	cj	WIRE COPPER 1/0 7 STR. SOFT DRAWN	AS REQ	
28509500209	*	COPPER COMP CONN. 2 STR., 1/0 STR X 2 STR., 1/0 STR.	3	

*** Add spare riser conduit when pole height is over 45'
**** CUT OUT SIZE AS REQUIRED
SEE REFERENCE SHEET CC1 & CC2 FOR PRIMARY & NEUTRAL CONNECTORS

NBU		Electric Engineering 355 FM 306 PO Box 310289 New Braunfels, TX 78131-0289 830-608-8951	3 PHASE PRIMARY RISER FOR STEEL CONSTRUCTION	
ISSUED	SCALE	DRAWING NUMBER	1/07	NTS RS3



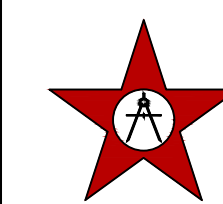
ALL JUMPERS
LENGTH AND SIZE
AS REQUIRED

*SEE APPENDIX WD-SFG FOR GROUNDING DIAGRAM



Electric Engineering 355 FM 306 PO Box 310289 New Braunfels, TX 78131-0289 830-608-8951		DATE ISSUED	DATE	BY	TITLE	SCALE	DRAWING NUMBER
		REV.			3 PHASE PRIMARY RISER FOR STEEL CONSTRUCTION	NTS	RS3
			1/07				

*** THE QUANTITIES SHOWN ON THE PLANS AND THE BID DOCUMENTS ARE ESTIMATED QUANTITIES AND BASED ON THE PLAN SET AND TO BE USED FOR BIDDING PURPOSE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESOLVE ANY PERCEIVED DISCREPANCIES IN THE QUANTITIES WITH THE OWNER PRIOR BEGINNING ANY CONSTRUCTION WORK.



M&S ENGINEERING
CIVIL | ELECTRICAL | STRUCTURAL | MEP
TEXAS REGISTERED ENGINEERING FIRM
F-1394

ELECTRIC ENGINEERING		NOTES		PROJECT LOCATION	
355 FM 306 P.O. BOX 310289 NEW BRAUNFELS, TEXAS 78131 830-608-8951		KYNWOOD UNIT 1 UD			
DATE CL	DATE CL	DATE CL	DATE CL	DATE CL	DATE CL
DATE CL	DATE CL	DATE CL	DATE CL	DATE CL	DATE CL
DATE CL	DATE CL	DATE CL	DATE CL	DATE CL	DATE CL

PRELIMINARY NOT FOR CONSTRUCTION
=== FOR PRELIMINARY BIDDING AND DISCUSSION PURPOSES ONLY