BROWNSVILLE PUBLIC UTILITIES BOARD
ELECTRICAL ENGINEERING DEPARTMENT

Date:________________

CUSTOMER CONTACT INFORMATION

Name: ______________________________
Address: ______________________________
____
Phone: ______________________________
Fax: ______________________________

Signed: ______________________________

PROPERTY OWNER INFORMATON

Name: ______________________________
Address: ______________________________
____
Phone: ______________________________
Fax: ______________________________

Signed: ______________________________

PROPERTY INFORMATION

Street Address: ____

Legal Description: ______________ ______________ ______________________
Lot Block Subdivision

Construction Type: ☐ New Construction ☐ Addition

POWER REQUIREMENTS (Connecting Loads)

Voltage: ☐ 120/240 1-Phase ☐ 120/240 3-Phase ☐ 240/480 1-Phase ☐ 240/480 3-Phase
☐ 120/208 3-Phase ☐ 277/480 3-Phase ☐ 7200/12470 3-Phase

Current: ☐ 100 AMP ☐ 200 AMP ☐ 400 AMP ☐ _____ AMP *

* Services above 400 AMP will require current transformers (CT).

Load:		1-Phase	3-Phase
	Lighting	________ KW	________ KW
	Receptacles	________ KW	________ KW
	HVAC	________ KW	________ KW
	Motors/Machines	________ HP	________ HP
	Others	________ KW	________ KW

Total Estimated KW Demand ____________

TEMPORARY POWER NEEDED Month__________ Day__________ Year__________

PERMANENT POWER NEEDED Month__________ Day__________ Year__________

IMPORTANT TELEPHONE NUMBERS

BPUB Electrical Engineering..... (956) 983-6201

BPUB Customer Service..... (956) 983-6121

NOTES:

1. Aluminum meter sockets required (Effective 7/1/07)

IMPORTANT: If BPUB requests additional information or a response, the customer must comply within **20 business days**. Failure to respond or submit the requested information will result in the request being closed and requiring resubmittal.

Email to BPUB Electrical Engineering Department to nvasquez@brownsville-pub.com

BROWNSVILLE PUBLIC UTILITIES BOARD	CUSTOMER CHECKLIST	DEVELOPED BY:	ELECTRICAL ENGINEERING
		APPROVED:	03/13/2026
		DRAWING NUMBER	ENG-1

Procedures For Commercial Developments

1. Customer must bring copy of the loads and site plan to the Electrical Engineering Department.

2. Customer needs to provide required easements for electrical service.

3. Customer must apply for power in the Customer Service Department and pay for a deposit. The amount of the deposit depends on the KVA's being installed to serve electrical needs.

4. Customer must pass the City of Brownsville electrical inspection before getting connected. The City of Brownsville will require a licensed electrician to apply for a permit and inspection.

5. Customer must provide required conduit work and concrete pad as per BPUB specifications when the electrical service is underground. The Electrical Engineering Department needs to approve the trench and conduit before covering the trench. The concrete pad needs to be inspected before pouring the concrete.

6. The Electrical Engineering Department will determine the location of the meter and will decided OH or URD service will be decided by Electrical Engineering.

7. No gutters boxes will be allowed by the Brownsville Public Utilities Board.

8. Metering needs to be approved by the Electrical Department before buying or installing any metering equipment.

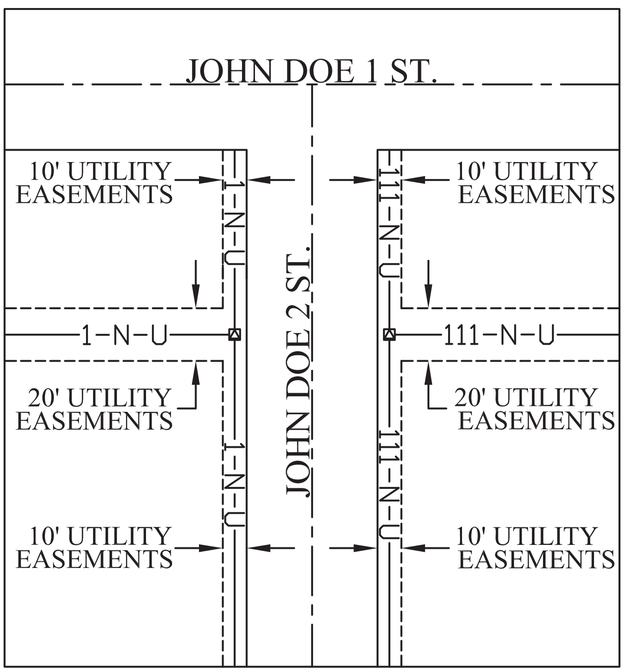
9. The Brownsville Public Utilities Board will install transformers and electrical metering equipment after all the above mentioned procedures is fulfilled. A time frame of 5-15 days is required after customer has completed all of the above procedures.

10. BPUB can refuse to connect power if any of the conditions above are not done correctly.

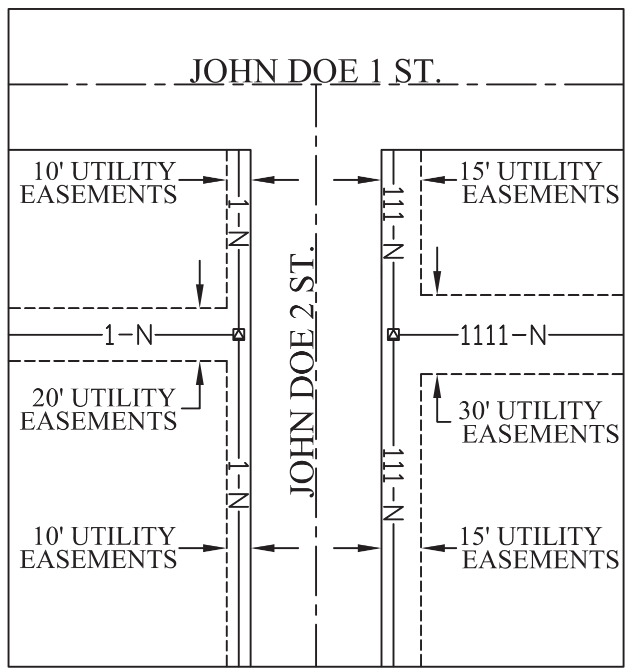
BROWNSVILLE PUBLIC UTILITIES BOARD
ELECTRICAL ENGINEERING DEPARTMENT

LINE / EQUIPMENT DESCRIPTION	OVER OPEN LAND (FEET)	ALONG STREETS (FEET)
THREE PHASE OVERHEAD TRANSMISSION LINES (69,000-138,000 VOLTS)	50	25
THREE PHASE OVERHEAD TRANSMISSION LINES (15,000 VOLTS)	30	15
SINGLE PHASE OVERHEAD DISTRIBUTION LINES (72,00 VOLTS)	20	10
UNDERGROUND DISTRIBUTION LINES (7,200 OF 15,000 VOLTS)	20	10
SERVICE LINES (120 - 480 VOLTS)	10	5
PAD MOUNTED TRANSFORMERS	20 X 20	10 X 20
PAD MOUNTED SWITCHGEAR	20 X 30	10 X 30

EXAMPLE #1
UNDERGROUND



EXAMPLE #2
OVERHEAD



NOTE:
1. ADDITIONAL EASEMENTS MAY BE NEEDED.
2. ANY PROPOSED STRUCTURE (FENCE, SIDEWALK, ETC.) WITHING THE EASEMENT IS SUBJECT TO REVIEW AND APPROVAL BY BPUB.

BROWNSVILLE PUBLIC UTILITIES BOARD	**ELECTRICAL EASEMENT REQUIREMENTS**	DEVELOPED BY:	STANDARDS COMMITTEE	STATE OF TEXAS ELI ALVAREZ 100959 LICENSED PROFESSIONAL ENGINEER
		APPROVED:	OCT 2019	
		DRAWING NUMBER	**ENG-2**	

Meter Sockets for Self Contained Meters

125 Amp, 4-Terminal, Ringless, Aluminum, OH/UG.

Milbank: UAP7487-RL-TG
Landis & Gyr: UAT131-XGF
Square D: UAT-RS101C-SQD

125 Amp, 5-Terminal (9:00 or 6:00 Position), Ringless, Aluminum, OH/UG.

Milbank: Kit 5T8K2 - 5th Terminal field mounted
Landis & Gyr: Kit 659-0121-5th Terminal field mounted
Square D: Kit A5J - 5th Terminal field mounted

200 Amp, 4-Terminal, Ringless, Bypass Lever, Aluminum, OH/UG.

Milbank: UAP9801-RRL
Landis & Gyr: 41404-015F
Square D: UAT-H4213C-SQD
Cutler-Hammer: UAT-4213U-FLCH

320 Amp, 4-Terminal, Ringless, Bypass Lever, Aluminum, OH/UG.

Milbank: UAP2448-X
Landis & Gyr: 41704-01
Square D: UAT-H4330U-SQD

200 Amp, 5-Terminal (6:00 position), Ringless, Bypass Lever, Aluminum, OH/UG.

Milbank: UAP9551-RRL
Landis & Gyr: 41405-025F
Square D: UAT-H5213C-SQD

320 Amp, 5-Terminal (6:00 Position), Ringless, Bypass Lever, Aluminum, OH/UG.

Milbank: UAP2448-X with Kit K3865
5th Terminal field mounted
Landis & Gyr: 49105-02FL
Square D: UAT-H5330U-SQD

200 Amp, 7-Terminal, Ringless, Bypass Lever, Aluminum, OH/UG.

Milbank: UAP9701-RRL
Landis & Gyr: 41407-025F
Square D: UAT-H7213C-SQD

320 Amp, 7-Terminal, Ringless, Bypass Lever, Side Wireway, Aluminum, OH/UG.

Milbank: UAP2594-X
Landis & Gyr: 49107-02FL
Square D: UAT-H7330U-SQD

Note: 1. - All Meter Sockets provided and installed by customer at site approved by BPUB.
2. - All Meter Sockets are to be new stock and UL listed.
3. - Meter and Service installations must also meet City of Brownsville inspection requirements.
4. - Meter cans less than 100 Amps need BPUB Engineering approval in advance.

BROWNSVILLE PUBLIC UTILITIES BOARD	**METER SOCKETS**	DEVELOPED BY:	STANDARDS COMMITTEE	STATE OF TEXAS ELI ALVAREZ 100959 LICENSED PROFESSIONAL ENGINEER
		APPROVED:	Jan 2023	
		DRAWING NUMBER	**ENG - 6**	

Meter - Pack for Self Contained Meters **

** A main disconnect switch is required for over 6 meters served by a single service.

100 Amp, 4-Terminal, OH/UG, Ringless, Aluminum

2 - Sockets

Landis & Gyr: UA2331-OG
Square D: UAT-2R1121C-SQD
Cutler-Hammer: UATZ2R1121C-FLCH

3 - Sockets

Landis & Gyr: UA3331-OG
Square D: UAT-3R1121C-SQD
Cutler-Hammer: UATZ3R1121C-FLCH

4 - Sockets

Landis & Gyr: UA4331-OG
Square D: UAT-4R1121C-SQD
Cutler-Hammer: UATZ4R1121C-FLCH

5 - Sockets

Square D: UAT-5R1121C-SQD
Cutler-Hammer: UATZ5R1121C-FLCH

6 - Sockets

Square D: UAT-6R1131C-SQD
Cutler-Hammer: UATZ6R1131C-FLCH

200 Amp, 4-Terminal, OH/UG, Ringless, Aluminum

2 - Sockets

Milbank: UAP1252-X-HSP
Landis & Gyr: UA2736-ZGF
Square D: UAT-2R2332U-SQD
Cutler-Hammer: UAT2R2332U-FLCH

3 - Sockets

Milbank: UAP1253-X-HSP
Landis & Gyr: UA3737-ZGF
Square D: UAT-3R2332U-SQD
Cutler-Hammer: UAT3R2332U-FLCH

4 - Sockets

Milbank: UAP1254-X-HSP
Landis & Gyr: UA4739-ZGF
Square D: UAT-4R2352U-SQD
Cutler-Hammer: UAT4R2352U-FLCH

5 - Sockets

Milbank: UAP1255-X-HSP
Landis & Gyr: UA5739-MGF
Square D: UAT-5R2392UU-SQD
Cutler-Hammer: UAT5R2392UU-FLCH

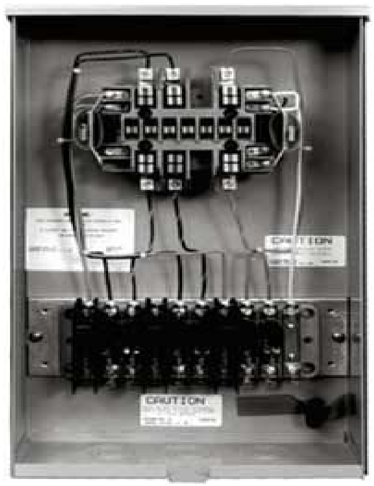
6 - Sockets

Milbank: UAP1256-X-HSP
Landis & Gyr: UA6739-MGF
Square D: UAT-6R2392UU-SQD
Cutler-Hammer: UAT6R2392UU-FLCH

Notes:
1. - All Meter Sockets provided and installed by customer at site approved by BPUB.
2. - All Meter Sockets are to be new stock and UL listed.
3. - Meter and Service installations must also meet City of Brownsville or Cameron County inspection requirements.
4. - 7-Terminal Steel Meter-Packs must be UL listed or have a Texas Professional Engineer's Seal on the specifications.

BROWNSVILLE PUBLIC UTILITIES BOARD	METER - PACK	DEVELOPED BY:	STANDARDS COMMITTEE	STATE OF TEXAS ELI ALVAREZ 100959 LICENSED PROFESSIONAL ENGINEER
		APPROVED	Oct 2019	
		DRAWING NUMBER	ENG - 6A	

20 Amp CT/PT Meter Sockets, Aluminum, Ringless, Terminal Block and Test Switch Provision **



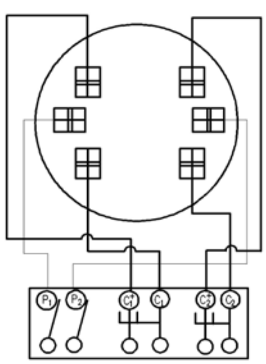
** Must have integrated prewired switches per BPUB's specifications for all CT and PT connections:

Voltages: Use RED/BLACK, BROWN, ORANGE.
Currents: Use RED, BLUE, YELLOW.
Neutral: Use BLACK.

** Wire must be Copper, Gage 10, THHN, Stranded.

** For Single phase: 120 / 240 volts 3-wire use Wiring Form 4S.
** For Three phase: 120 / 208 volts Wye 4-wire use Wiring Form 9S.
277 / 480 volts Wye 4-wire use Wiring Form 9S.
120 / 240 volts Delta 4-wire use Wiring Form 9S.
240 / 480 volts Delta 3-wire use Wiring Form 5S.

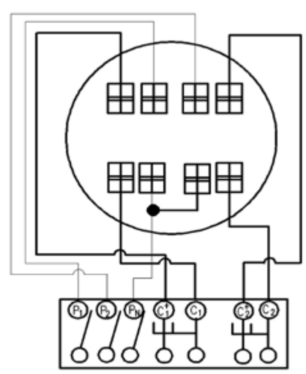
Form 4S



6 - Terminals

Milbank: UAPC7478-XL
Landis & Gyr: 9837-8200
Square D: USTS6-1C224-SQD

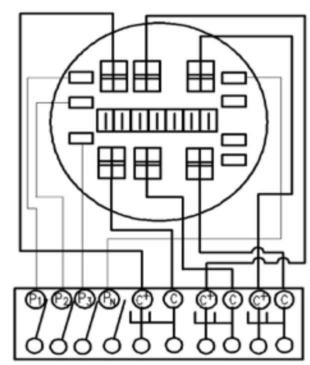
Form 5S



8 - Terminals

Milbank: UAPC7444-XL
Landis & Gyr: 9837-8400
Square D: USTS8-1C225-SQD

Form 9S



13 - Terminals

Milbank: UAPC7445-XL
Landis & Gyr: 9837-8500
Square D: USTS13-1C226-SQD

Note: 1. - All Meter Sockets provided and installed by customer at site approved by BPUB.
2. - All Meter Sockets are to be new stock and UL listed.
3. - Meter and Service installations must also meet City of Brownsville inspection requirements.

BROWNSVILLE PUBLIC UTILITIES BOARD	CT/PT METER SOCKETS	DEVELOPED BY:	STANDARDS COMMITTEE	STATE OF TEXAS ELI ALVAREZ 100959 LICENSED PROFESSIONAL ENGINEER
		APPROVED:	Jan 2023	
		DRAWING NUMBER	ENG - 6B	

Current Transformer (CT) Cabinets, NEMA 3R
Aluminum (at least 0.08 thick)

Overhead / Pole Mounted Transformer Cabinets

Manufacture:	Barfield	Milbank	Meter Devices Co.
Catalog #:	BATCW7818NSGRC	1887-CT3RXA-SP1	558-5127 TCWM Alum

Underground / Wall Mounted Transformer Cabinets

Manufacture:	Milbank	Meter Devices Co.	Durham
Catalog #:	363612-CT3RXA-SP2	561U3815G TC-3 Alum	A-363612-RDR A-363612-SFR A-363612-DDR
Max Cond:	8 - 500MCM	8 - 500MCM	8 - 500MCM

Notes: 1. All CT cabinets provided and installed by customer at site approved by BPUB.
2. All CT Cabinets are to be new stock.
3. BPUB Engineering may approve a non-standard CT cabinet on a case by case basis. Please provide cut sheets and allow an extra two weeks for Engineering review and approval.

BROWNSVILLE PUBLIC UTILITIES BOARD	CURRENT TRANSFORMER ENCLOSURES	DEVELOPED BY:	STANDARDS COMMITTEE	STATE OF TEXAS ELI ALVAREZ 100959 LICENSED PROFESSIONAL ENGINEER
		APPROVED:	SEP 2020	
		DRAWING NUMBER	ENG-12	

BROWNSVILLE PUBLIC UTILITIES BOARD
ELECTRICAL ENGINEERING DEPARTMENT

1. All concrete pad locations, pad construction such as dimensions, materials, grade compaction and any requested modifications such as retaining walls, bollards, integrated drainage, etc. are to be approved by the BPUB Electrical Engineering Department before the construction of the concrete pad.

2. If bollards are required, the BPUB Electrical Engineering will design and inspect bollard locations prior to permanent placement.

3. All concrete pads shall have a 10 feet unobstructed clearance to the front of the cabinet side, and a 5 feet unobstructed clearance from the remaining sides.

4. There must be truck access to the concrete pad location.

5. Customer will verify and supply all the needed conduits prior to the construction of the concrete pad.

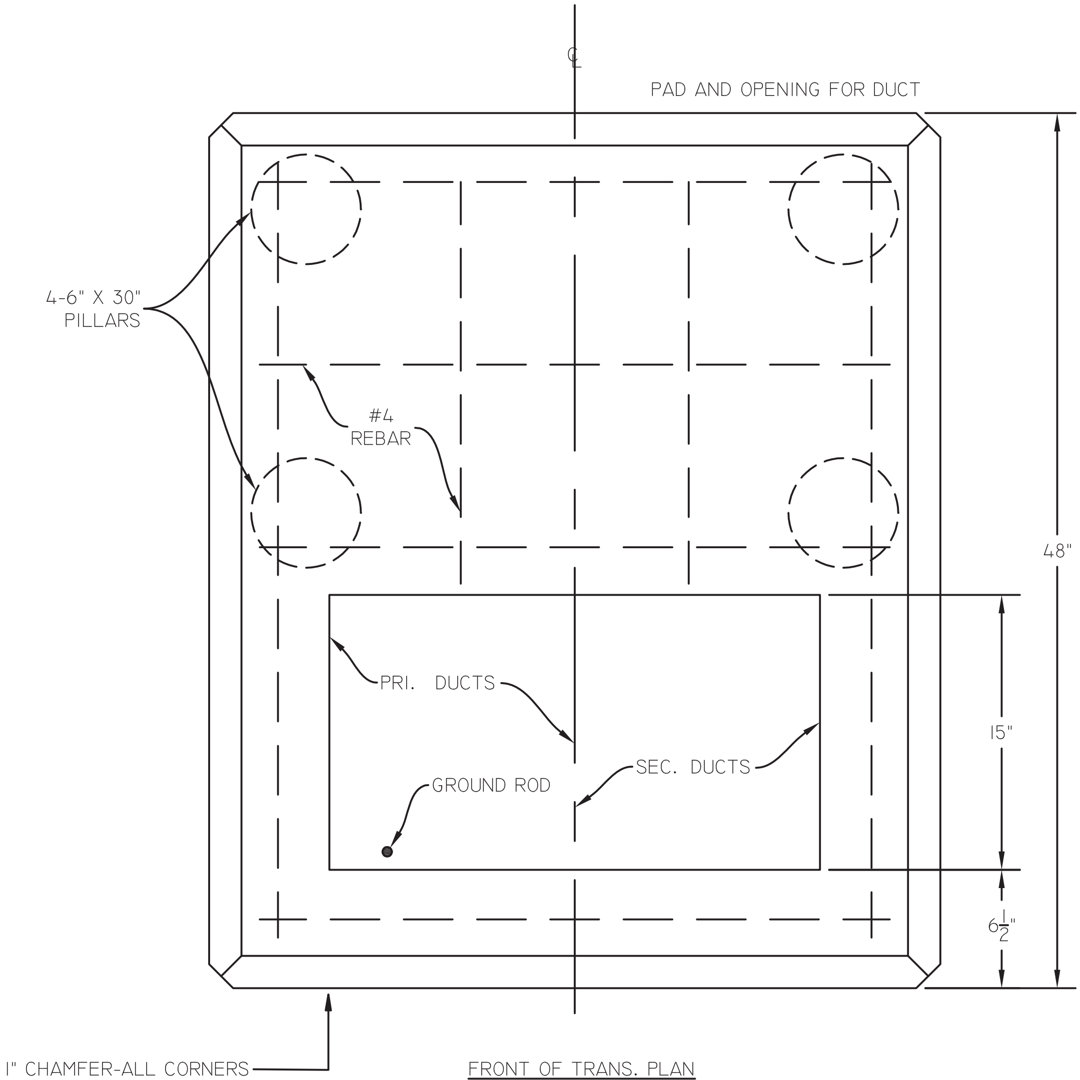
6. The Transformer and Switchgear concrete pads top surface is to be at least 6 inches above finish grade, and Sectionalizer concrete pad top surface is to be at least 4 inches above finish grade.

7. Concrete is to be 3000 psi cured for a minimum of 3 calendar days before BPUB sets transformer.

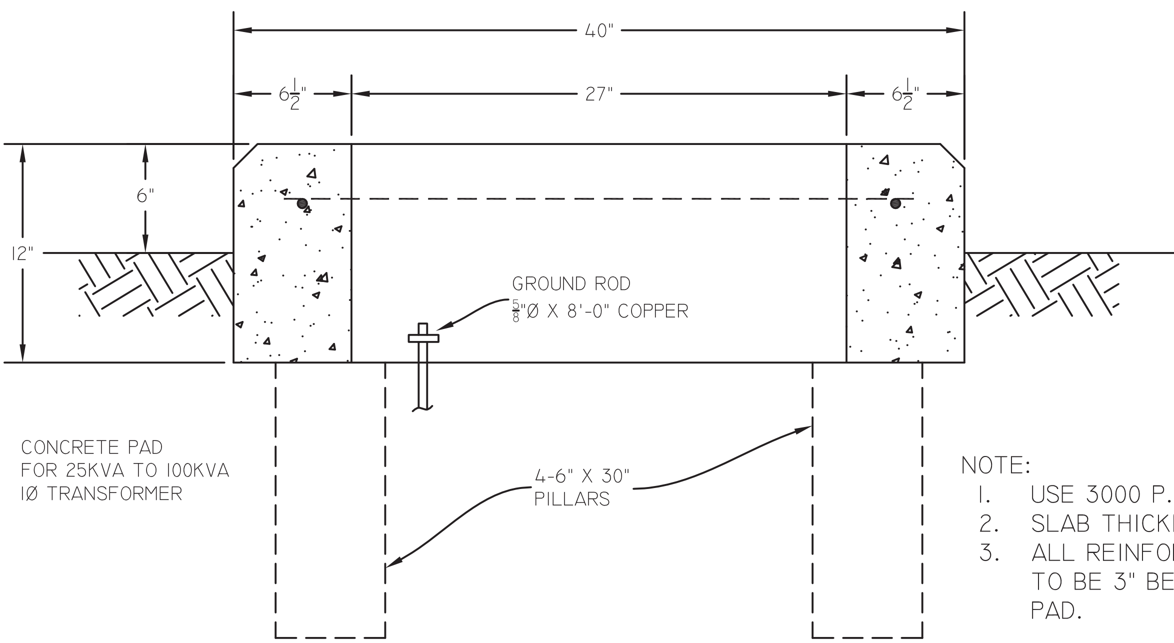
8. Customer must supply to BPUB any required easement prior to the construction of the concrete pad.

9. The Transformer primary conduits should be separated at least 2 feet from the secondary conduits.

BROWNSVILLE PUBLIC UTILITIES BOARD	CUSTOMER RESPONSIBILITIES FOR CONCRETE PADS CONSTRUCTION	DEVELOPED BY:	STANDARDS COMMITTEE	STATE OF TEXAS ELI ALVAREZ 100959 LICENSED PROFESSIONAL ENGINEER
		APPROVED:	1-Sep-19	
		DRAWING NUMBER	ENG - 8	



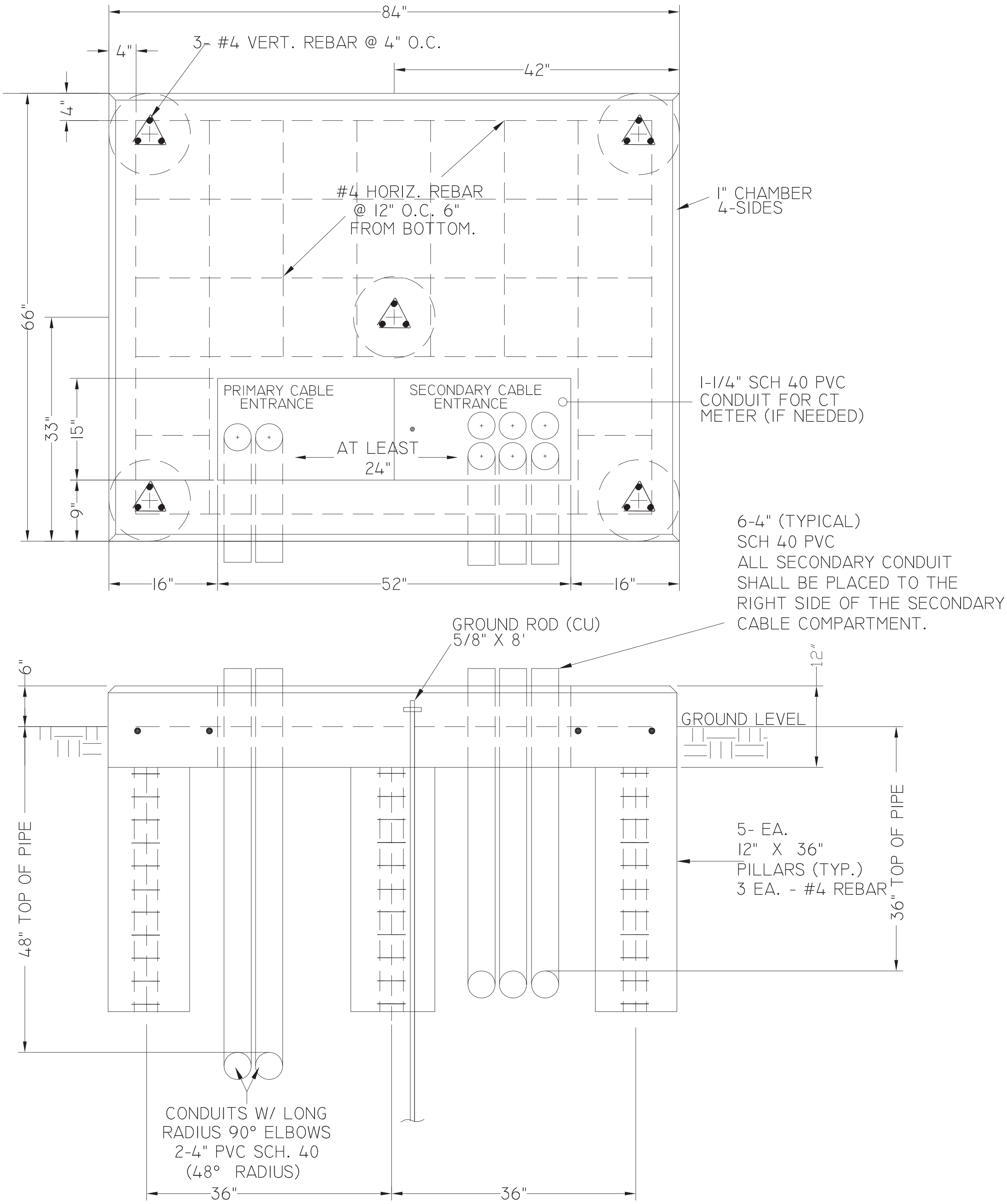
FRONT OF TRANS. PLAN



CONCRETE PAD
FOR 25KVA TO 100KVA
1Ø TRANSFORMER

NOTE:
1. USE 3000 P.S.I. CONCRETE.
2. SLAB THICKNESS TO BE 12".
3. ALL REINFORCING STEEL TO BE 3" BELOW TOP OF PAD.

BROWNSVILLE PUBLIC UTILITIES BOARD	TYPICAL STEEL REINFORCED CONCRETE PAD FOR SINGLE-PHASE PAD-MOUNTED TRANSFORMER	DEVELOPED BY:	STANDARDS COMMITTEE	STATE OF TEXAS ELI ALVAREZ 100959 LICENSED PROFESSIONAL ENGINEER
		APPROVED:	SEP 2019	
		DRAWING NUMBER	UD-14	



NOTES:

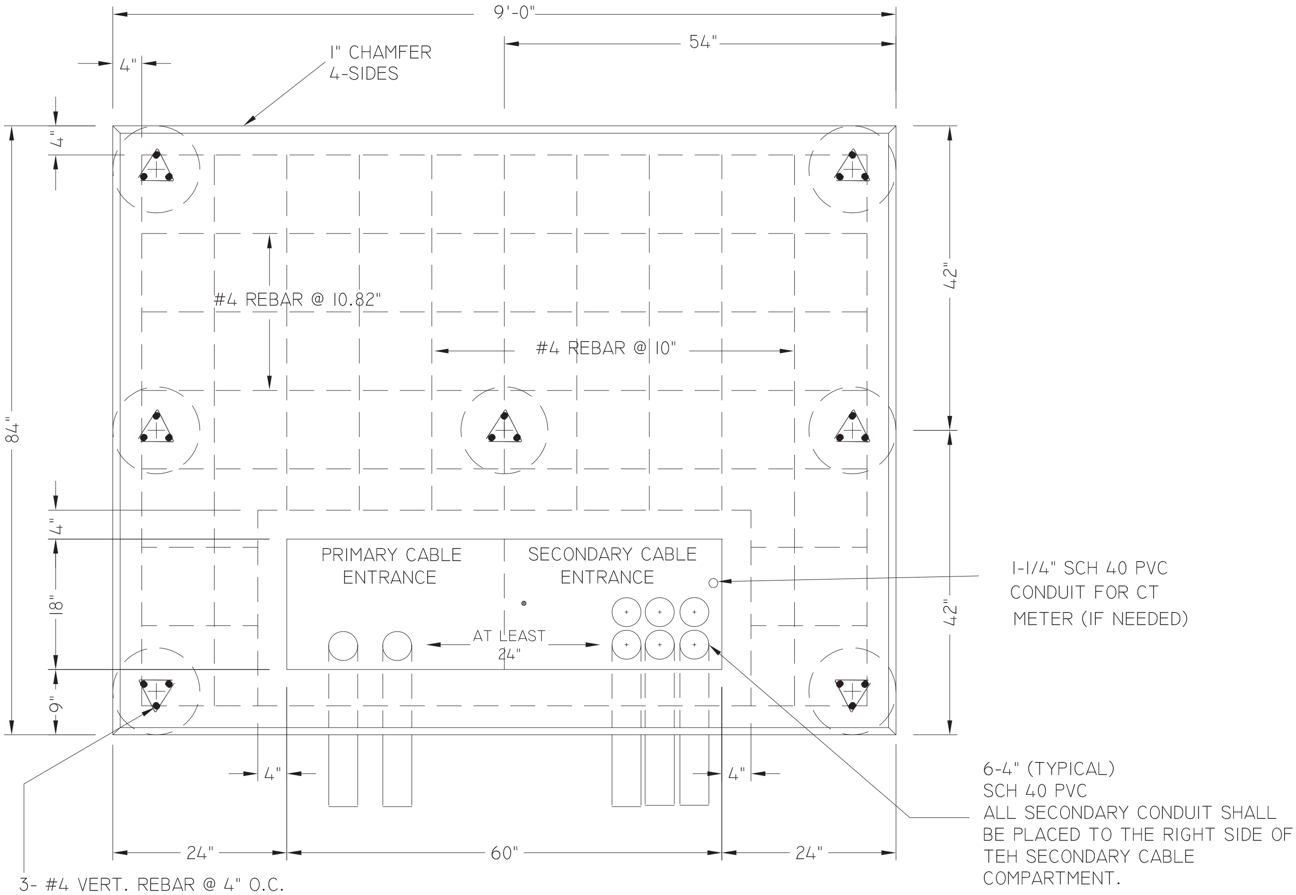
1. USE 3000 P.S.I. CONCRETE.
2. SLAB THICKNESS TO BE 12" MINIMUM.
3. ALL REINFORCING STEEL TO BE 6" BELOW TOP OF PAD.
4. 1 1/4" MIN PVC CONDUIT FOR CT'S WIRES @ SEC. CABLE ENTRANCE TO METER LOCATION.
5. COMPACT SOIL 95% BEFORE INSTALLING CONCRETE PAD.
6. ALL MATERIALS PROVIDED AND INSTALLED BY THE COSTUMER.
7. MUST MEET ALL REQUIREMENTS OF BPUB STANDARD DRAWING ENG-8.

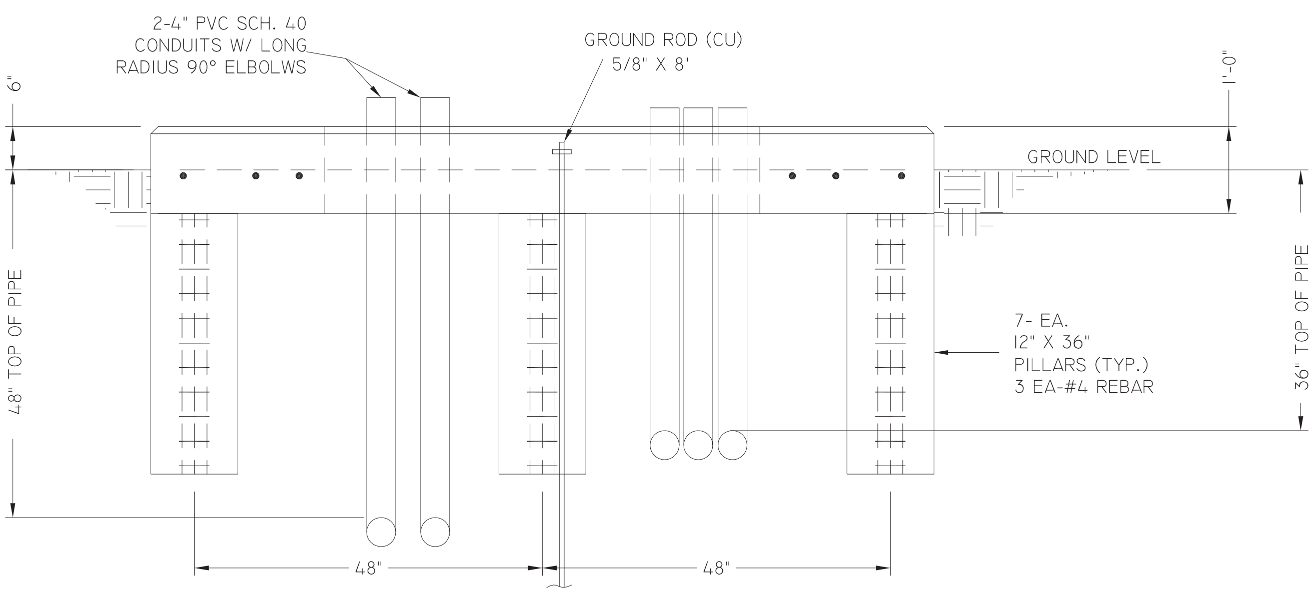
BROWNSVILLE
PUBLIC UTILITIES BOARD

TYPICAL CONCRETE PAD FOR 45 TO 500 KVA 3 PHASE PAD-MOUNTED TRANSFORMER

DEVELOPED BY:	STANDARDS COMMITTEE
APPROVED:	SEP 2019
DRAWING NUMBER	UD-16

STATE OF TEXAS
ELI ALVAREZ
100959
LICENSED
PROFESSIONAL ENGINEER

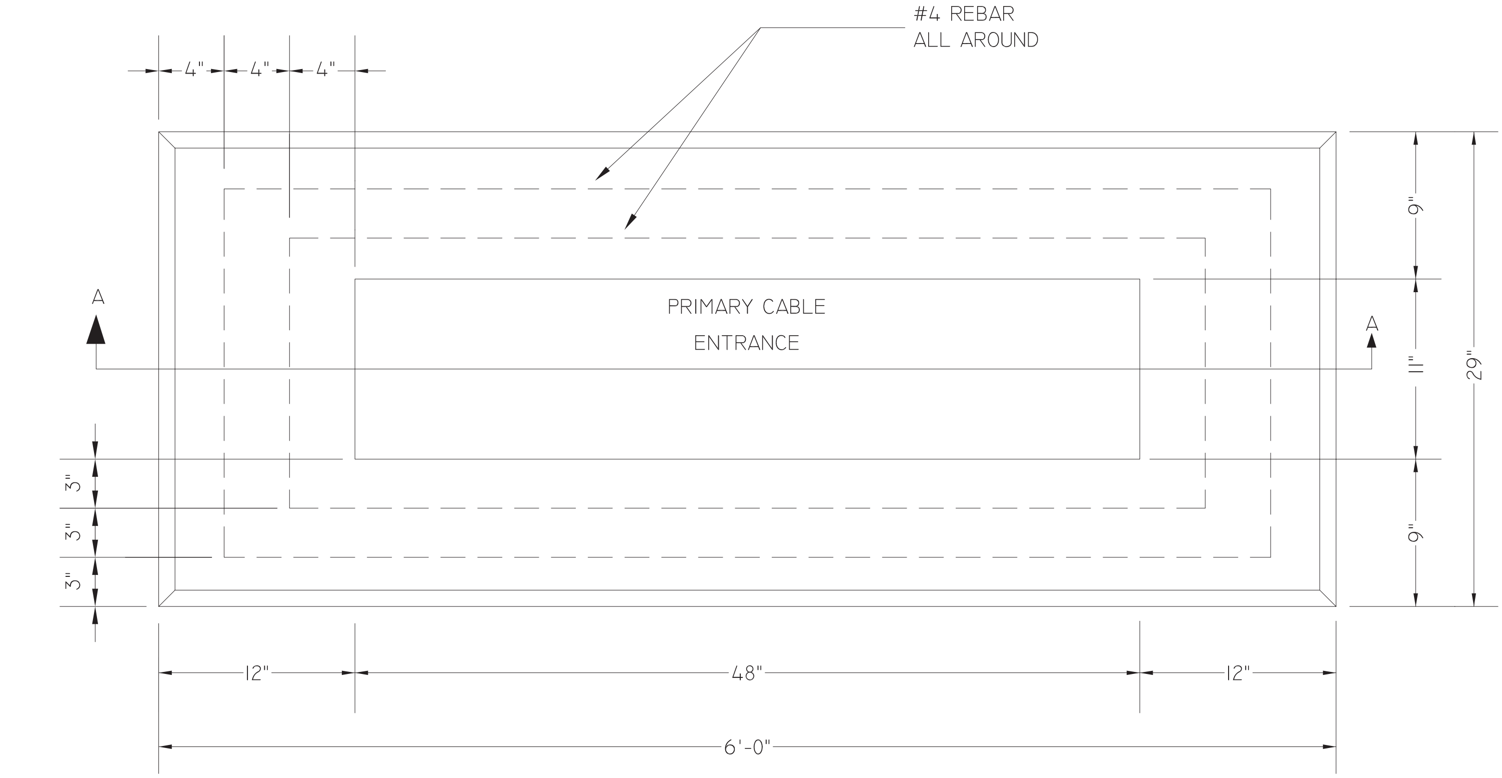




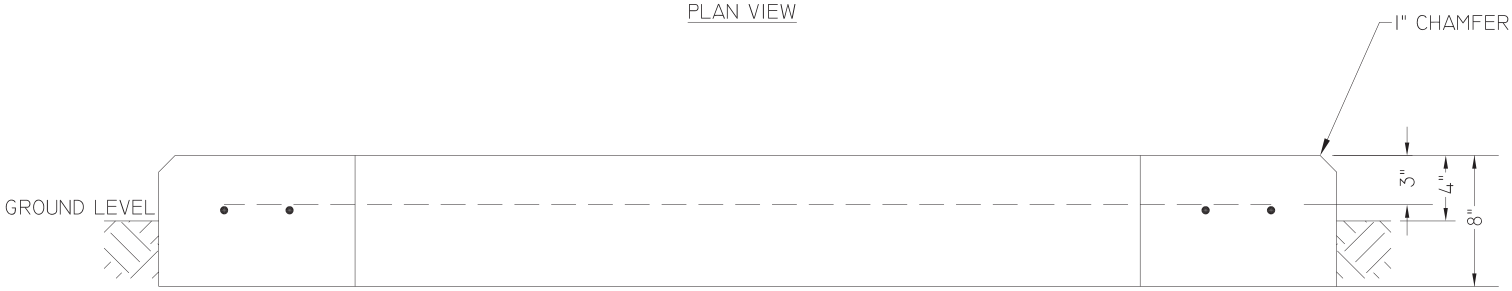
NOTES:

1. USE 3000 P.S.I. CONCRETE.
2. SLAB THICKNESS TO BE 12" MINIMUM.
3. ALL REINFORCING STEEL TO BE 6" BELOW TOP OF PAD.
4. I 1/4" MIN PVC CONDUIT FOR CT'S WIRES @ SEC. CABLE ENTRANCE TO METER LOCATION.
5. COMPACT SOIL 95% BEFORE INSTALLING CONCRETE PAD.
6. ALL MATERIALS PROVIDED AND INSTALLED BY THE COSTUMER.
7. MUST MEET ALL REQUIREMENTS OF BPUB STANDARD DRAWING ENG-8.

BROWNSVILLE PUBLIC UTILITIES BOARD	TYPICAL CONCRETE PAD FOR 750 TO 2500 KVA 3 PHASE PAD-MOUNTED TRANSFORMER	DEVELOPED BY:	STANDARDS COMMITTEE	STATE OF TEXAS ELI ALVAREZ 100959 LICENSED PROFESSIONAL ENGINEER
		APPROVED:	SEP 2019	
		DRAWING NUMBER	UD-17	



PLAN VIEW



SECTION A-A

NOTES:

1. USE 3000 P.S.I. CONCRETE.
2. SLAB THICKNESS TO BE 8" MINIMUM.
3. ALL REINFORCING STEEL TO BE 3" BELOW TOP OF PAD.
4. COMPACT SOIL 95% BEFORE INSTALLING CONCRETE PAD.
5. ALL MATERIALS PROVIDED AND INSTALLED BY THE COSTUMER.
6. ANCHOR BOLTS INSTALLED BY BPUB.
7. MUST MEET ALL REQUIREMENTS OF BPUB STANDARD DRAWING ENG-8.

BROWNSVILLE PUBLIC UTILITIES BOARD	THREE-PHASE SECTIONALIZER CONCRETE PAD	DEVELOPED BY:	STANDARDS COMMITTEE	STATE OF TEXAS ELI ALVAREZ 100959 LICENSED PROFESSIONAL ENGINEER
		APPROVED:	SEP 2019	
		DRAWING NUMBER	UD-18A	