

**BROWNSVILLE PUBLIC UTILITIES BOARD
ELECTRICAL ENGINEERING DEPARTMENT**

Date: _____

CUSTOMER CONTACT INFORMATION

Name: _____
 Address: _____

 Phone: _____
 Fax: _____
 Signed: _____

PROPERTY OWNER INFORMATION

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
 120/208 3-Phase 277/480 3-Phase 7200/12470 3-Phase

Current: 100 AMP 200 AMP 400 AMP 800 AMP _____ AMP

		<u>1-Phase</u>	<u>3-Phase</u>
Load:	Lighting	_____ KVA	_____ KVA
	Receptacles	_____ KVA	_____ KVA
	HVAC	_____ KVA	_____ KVA
	Motors/Machines	_____ HP	_____ HP
	Others	_____ KVA	_____ KVA

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
 City of Brownsville Permitting/Inspections..... (956) 550-8345
 Cameron County Permitting/Inspections..... (956) 548-9553

Fax to BPUB Electrical Engineering Department (956) 983-6220 or E-mail to nvasquez@brownsville-pub.com

NOTE: ALUMINUM METER SOCKETS REQUIRED (EFFECTIVE 7/1/07)

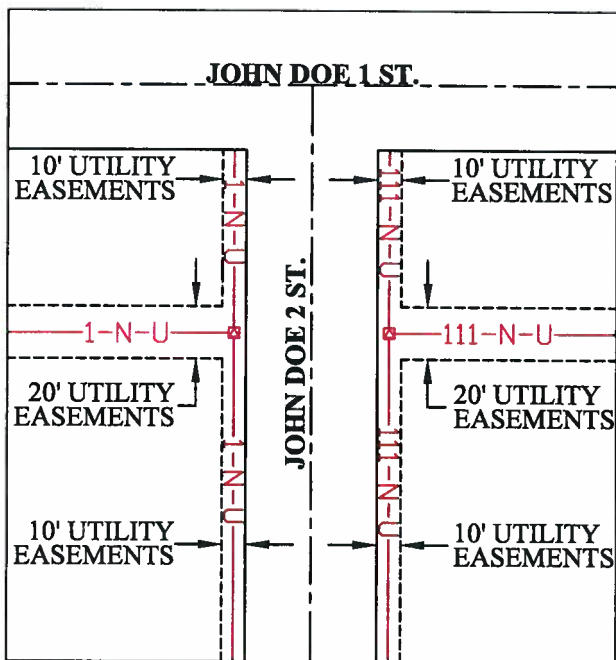
 BROWNSVILLE PUBLIC UTILITIES BOARD	CUSTOMER CHECKLIST	DEVELOPED BY:	STANDARDS COMMITTEE	
		APPROVED:	5-Jan-06	
		DRAWING NUMBER	ENG-1	

**BROWNSVILLE PUBLIC UTILITIES BOARD
ELECTRICAL ENGINEERING DEPARTMENT**

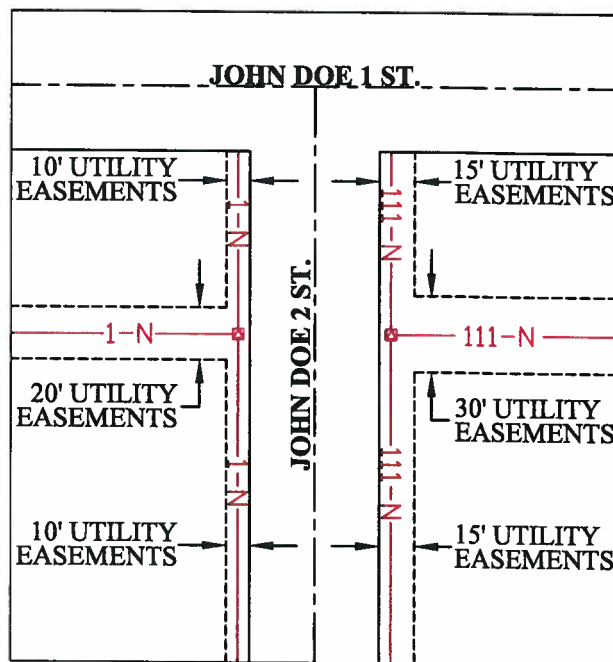
LINE / EQUIPMENT DESCRIPTION	OVER OPEN LAND (FEET)	ALONG STREETS (FEET)
THREE PHASE OVERHEAD TRANSMISSION LINES (69,000-138,000 VOLTS)	50	25
THREE PHASE OVERHEAD DISTRIBUTION LINES (15,000 VOLTS)	30	15
SINGLE PHASE OVERHEAD DISTRIBUTION LINES (7,200 VOLTS)	20	10
UNDERGROUND DISTRIBUTION LINES (7,200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

* Easement not needed if lines are used to serve a customer without passing over other properties.



**EXAMPLE #1
UNDERGROUND**



**EXAMPLE #2
OVERHEAD**



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

 BROWNSVILLE PUBLIC UTILITIES BOARD	ELECTRICAL EASEMENT REQUIREMENTS	DEVELOPED BY:	STANDARDS COMMITTEE	
		APPROVED: Rev.2	26-FEB-09	
		DRAWING NUMBER	ENG-2	

Meter Sockets for Self Contained Meters



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

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

**100 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
Cutler-Hammer: Kit ARP00035CHJ - 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-H4213U-FLCH**



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

**Milbank: UAP2448-X
Landis & Gyr: 41704-01
Square D: UAT-H4330U-SQD
Cutler-Hammer: 1008837-CH**



**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
Cutler-Hammer: UAT-H5213C-CH**



**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
Cutler-Hammer: UAT-H5330U-FLCH**



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

**Milbank: UAP9701-RRL
Landis & Gyr: 41407-025F
Square D: UAT-H7213C-SQD
Cutler-Hammer: UAT-H7213U-FLCH**

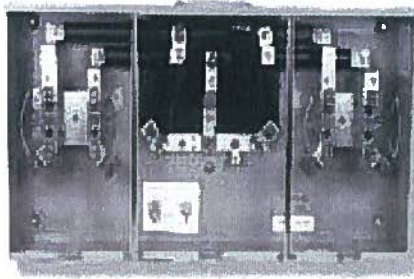


**320 Amp, 7-Terminal, Ringless,
Bypass Lever, Side Wireway,
Aluminum, OH/UG.**

**Milbank: UAP2594-X
Landis & Gyr: 49107-02FL
Square D: UAT-H7330U-SQD
Cutler-Hammer: UATH-7330U-FLCH**

- 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.**

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

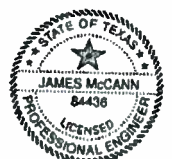
Milbank: UAP1256-X-HSP
 Landis & Gyr: UA6739-MGF
 Square D: UAT-6R2392UU-SQD
 Cutler-Hammer: UAT6R2392UU-FLCH

- 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 inspection requirements.

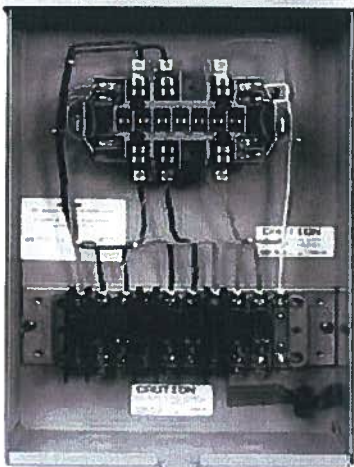


METER - PACK

DEVELOPED BY:	STANDARDS COMMITTEE
APPROVED-Rev 3	12-Aug-08
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.**

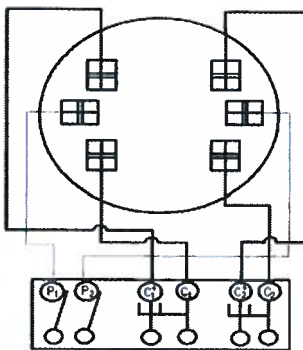
277 / 480 volts Wye 4-wire use Wiring Form 9S.

120 / 240 volts Delta 4-wire use Wiring Form 9S.

240 / 480 volts Delta 4-wire use Wiring Form 9S.

240 / 480 volts Delta 3-wire use Wiring Form 5S.

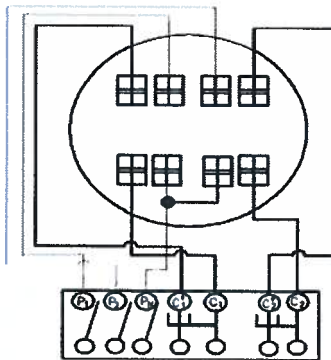
Form 4S



6 - Terminals

Milbank: UAPC7478-XL-161
 Landis & Gyr: 9837-0916
 Square D: UASTS6-1C224-SQD
 Cutler-Hammer: UASTS6-1C224-CH

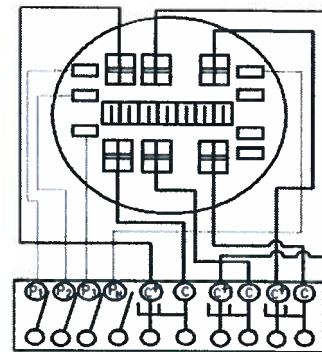
Form 5S



8 - Terminals

Milbank: UAPC7444-XL-211
 Landis & Gyr: 9837-0917
 Square D: UASTS8-1C225-SQD
 Cutler-Hammer: UASTS8-1C225-CH

Form 9S



13 - Terminals

Milbank: UAPC7445-XL-551
 Landis & Gyr: 9837-0918
 Square D: UASTS13-1C226-SQD
 Cutler-Hammer: UASTS13-1C226-CH

- 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.



CT/PT METER SOCKETS

DEVELOPED BY: STANDARDS COMMITTEE

APPROVED-Rev 4 30-Apr-08

DRAWING NUMBER

ENG - 6B



Current Transformers (CT) Cabinets, NEMA 3R
Aluminun (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		
		APPROVED: Rev 1 3-Jun-10		
		DRAWING NUMBER	ENG - 12	



METER SOCKETS MANUFACTURES AND DISTRIBUTORS

MANUFACTURER: MILBANK

DISTRIBUTOR: CED
4725 Towerwood Dr.
Brownsville, TX 78521
Tel: 956-838-2080

Central Plumbing & Electric
3805 International
Brownsville, TX 78520
Tel: 956-544-4103

Dealers
402 N. T Street
Harlingen, TX 78550
Tel: 956-425-8690

MANUFACTURER: CUTLER & HAMMER

DISTRIBUTER: Electric Fixtures Supply, Inc
810 East 11th Street
Brownsville, TX 78520
Tel: 956-546-2401

MANUFACTURER: SQUARE-D

DISTRIBUTER: Border States (Bush Supply)
2781 Robindale Rd.
Brownsville, TX 78521
Tel: 956-831-3441

MANUFACTURER: LANDIS & GYR

DISTRIBUTER: W.H. "Jack" McAdams (Agent)
1211 Levee Street
Dallas, TX 75208
Tel: 214-748-6417