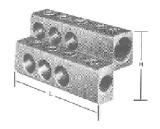
1700 Underground Secondary

2/11/2025

~	UB30-UB60	Basic Units - Underground Secondary
~	UE18,UE38	Secondary J-Box 17" x 30" x 18" Deep (Light Duty) Secondary J-Box 24" x 36" x 18"
С	UED6	Secondary Pedestal Assembly
~	US-1	UG Secondary Splice
~	US6,US7	Padmount Transformer Assembly 1Ø Secondary
~	US35-US38	Secondary Connectors 3Ø Padmount Transformer

- New Standard
- **R** Redrawn Standard
- **C** Changed Standard
- ∼ No Change



Single Phase Padmount Transformer Terminal

UB30's Material Descriptions	TDM#	Const. Spec.
Connector PTL 4-250 UG Al/Cu 6 to 4/0	1439	UB30
Connector PTL 4-350 UG Al/Cu 6 to 350	539	UB31
Connector PTL 6-250 UG Al/Cu 6 to 4/0	540	UB32
Connector PTL 6-350 UG Al/Cu 6 to 350	541	UB33
Connector PTL 6-500 UG Al/Cu 2 to 500	542	UB34



Three Phase Padmount Transformer Terminal

See US35 through US40 for Three Phase Padmount Transformer Terminals

Pedestal and Junction Box Connector



UB50's Material Descriptions	TDM#	Const. Spec.
Connector PTL 4-250 UG Al/Cu 6 to 4/0	527	UB50
Connector PTL 4-350 UG Al/Cu 6 to 350	528	UB51
Connector PTL 4-500 UG Al/Cu 2 to 500	529	UB52
Connector PTL 6-250 UG Al/Cu 6 to 4/0	530	UB53
Connector PTL 6-350 UG Al/Cu 6 to 350	531	UB54
Connector PTL 6-500 UG Al/Cu 2 to 500	532	UB55
Connector PTL 6-750 UG Al/Cu 350 to 750	533	UB56
Connector PTL 8-500 UG Al/Cu 2 to 500	534	UB57
Connector PTL 8-750 UG Al/Cu 2 to 750	535	UB58

PTL, PET, PED Cover

UB60's Material Descriptions	TDM#	Const. Spec.
Cover, Connector 4-350 UG	573	UB60
Cover, Connector 6-500 UG	574	UB61
Cover, Connector 8-500 UG	575	UB62
Cover, Connector 8-750 UG	576	UB63

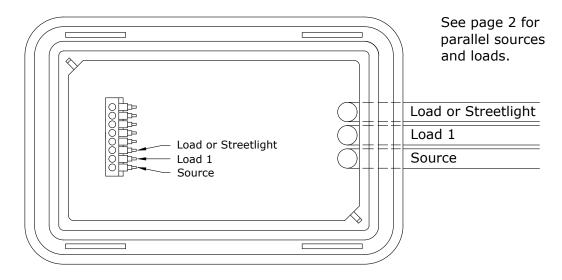


CONSTRUCTION STANDARDS

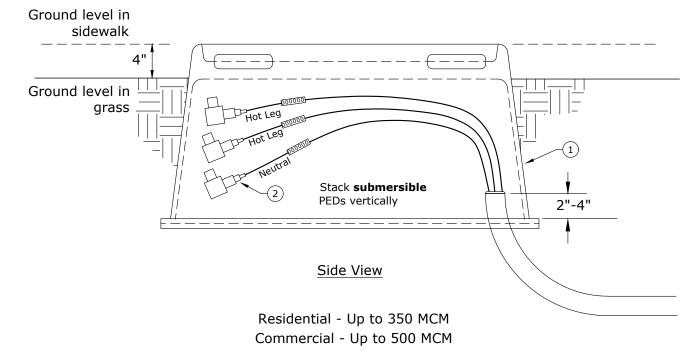
BASIC UNITS UNDERGROUND SECONDARY

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1 of 1	UB30,UB40,UB50,UB60	UB30

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3 REDRAWN IN CAD					
APP: ELM SECTION					
DATE: 1/22/80 1700					



Top View



Notes:

- 1. Do not install S/N 2556 in streets, alleys, or highways.
- 2. Cut all cables long enough to allow makeup to be done above the box top with cables in an approximately vertical position.
- 3. Bend cables down after makeup so that lid can be installed.
- 4. Use silicone grease on all allen wrench plugs and cable boots (both ends).
- 5. If additional depth is needed, place one box upside down, bolt the 2 boxes together and salvage one lid. (S/N 2556 only).

Rev. 7 - Added drawing for parallel source and loads.



CONSTRUCTION STANDARDS

SECONDARY JUNCTION BOX 17" x 30" x 18" DEEP (LIGHT DUTY) 24" x 36" x 18" DEEP (HEAVY DUTY)

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Y)	6	12/2/19
·/	7	12/9/22
1)		
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PAGE: 1 of 2 UE18,UE38

CAD FILE: UE18 APP: GGW/RWG SECTION 1700

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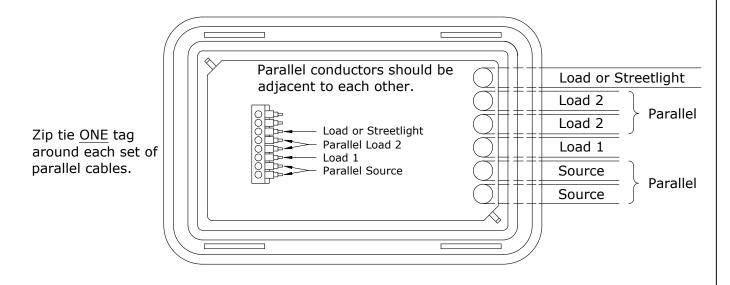
CRM

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GM

DATE

10/29/18



Top View Parallel Source and Loads

Occasional Traffic Areas (S/N 2556):

- Rated 10,000 pounds
- This box is \underline{NOT} for use in streets, alley or highways. Do \underline{NOT} use in driveways if location is part of the normal traveled way

Heavier Traffic Areas (S/N 2608):

- Rated 20,000 pounds
- This box is 24" x 36" x 18"
- May be used in alleys or driveways-only rated 20k
- Do NOT use in streets or highways

Rev. 7 - Added drawing for parallel source and loads.

ITEM	DESCRIPTION		UE18	
NO			S/N	
1	Box, Junction, Secondary, Composite, Light Duty (10k lb) with Cover, 17" x 30" x 18" with Pentabolts	1	2556	
2	Connector, Submersible, Sec., 8 Position, #12 to 500 MCM AI/Cu	3	2264	
ITEM	DECCRIPTION	UE18H		
NO	DESCRIPTION		S/N	
1	Box, Junction, Secondary, Composite, Heavy Duty (20k lb) with Cover, 24" x 36" x 18" with Pentabolts	1	2608	
2	Connector, Submersible, Sec., 8 Position, #12 to 500 MCM AI/Cu	3	2264	
ITEM	DESCRIPTION		E38	
NO			S/N	
1	Box, Junction, Secondary, Composite, Light Duty (10k lb) with Cover, 17" x 30" x 18" with Pentabolts	1	2556	
2	Connector, Submersible, Sec., 8 Position, #12 to 500 MCM AI/Cu	4	2264	
ITEM	DESCRIPTION		E38H	
NO			S/N	
1	Box, Junction, Secondary, Composite, Heavy Duty (20k lb) with Cover, 24" x 36" x 18" with Pentabolts	1	2608	
2	Connector, Submersible, Sec., 8 Position, #12 to 500 MCM AI/Cu	4	2264	



CONSTRUCTION STANDARDS

SECONDARY JUNCTION BOX 17" x 30" x 18" DEEP (LIGHT DUTY) 24" x 36" x 18" DEEP (HEAVY DUTY)

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	UE18	

APP: GGW/RWG SECTION 1700

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10/29/18

6/24/19

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12/9/22

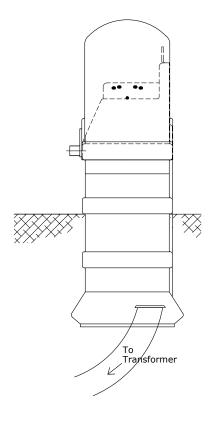
PAGE: 2 of 2

UE18,UE38

Identification Tag 8" Ground Level Leg Leg Leg Leg 28"

FRONT VIEW

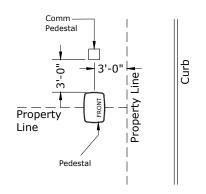
SIDE VIEW

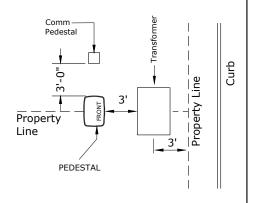


Notes: 1.) Leave slack in wire to allow for settling.

2.) Recommended torque for connectors: 23-38 ft-lb

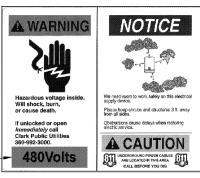
Must maintain 3' clearance from CPU equipment to Communication equipment.





LOCATION IN SUBDIVISION

FOR 480V SERVICE



Add S/N 794 "480 VOLTS" Label to "WARNING" label when pedestal is used for 480 V service.

Rev. 4 - Removed ground rod for BDR.



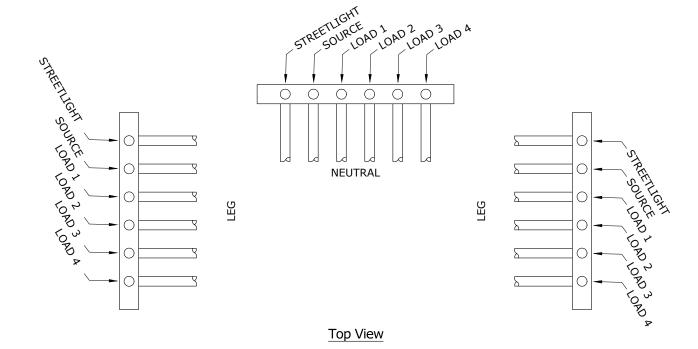
CONSTRUCTION STANDARDS

SECONDARY PEDESTAL ASSEMBLY

REVISIONS					
\mathbb{A}	DATE	ENGR	OPS		
1	4/26/04	LB	AH		
2	3/12/20	KJP			
3	12/9/22	CRM	GM		
4	2/11/25	CM	GM		

DO NOT Cut Zip Ties off Plastic PED Covers Zip Ties MUST Be Reinstalled

Back of Pedestal



Recommended torque: 23-38 ft-lb Do NOT Use Impact Driver/Wrench

Notes: 1.) Maximum cable size is 350 MCM.

- 2.) Minimum cable size is #10.
- 3.) Maximum of 6 triplex cables.

Rev. 4 - Removed ground rod for BDR.

ITEM			UED6	
NO			S/N	
1	Pedestal, Secondary, Above Ground, W/ Connectors and Covers *	1	2562	
2	Lock, Equipment *	1	837	



CONSTRUCTION STANDARDS

SECONDARY PEDESTAL ASSEMBLY

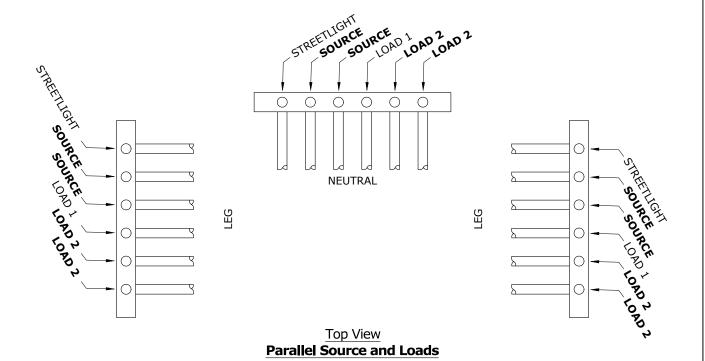
REVISIONS					
R	DATE	ENGR	OPS		
1	4/26/04	LB	AH		
2	3/12/20	KJP			
3	12/9/22	CRM	GM		
4	2/11/25	CM	GM		

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DO NOT Cut Zip Ties off Plastic PED Covers Zip Ties MUST Be Reinstalled

Zip tie ONE tag around each set of parallel cables

Back of Pedestal



Recommended torque: 23-38 ft-lb Do NOT Use Impact Driver/Wrench

Notes: 1.) Maximum cable size is 350 MCM.

2.) Minimum cable size is #10.

3.) Maximum of 6 triplex cables.

Rev. 4 - Removed ground rod for BDR.

ITEM	DECCRIPTION		UED6	
NO	DESCRIPTION	QTY	S/N	
1	Pedestal, Secondary, Above Ground, W/ Connectors and Covers *	1	2562	
2	Lock, Equipment *	1	837	



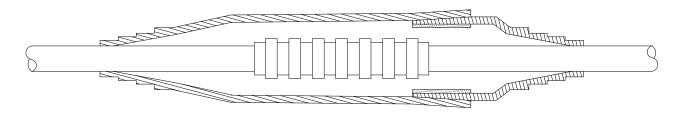
CONSTRUCTION STANDARDS

SECONDARY PEDESTAL ASSEMBLY PARALLEL SOURCE AND LOADS

REVISIONS							
\mathbb{A}	DATE	ENGR	OPS				
1	4/26/04	LB	AH				
2	3/12/20	KJP					
3	12/9/22	CRM	GM				
4	2/11/25	CM	GM				

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APPLY SILICONE GREASE TO CABLES FOR EASE OF ASSEMBLY.

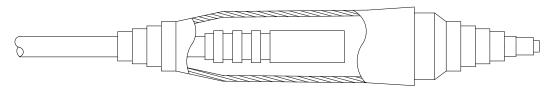
NOTES:

- 1. THIS SPLICE IS FOR ANY 600 VOLT OR LESS APPLICATION.
- 2. THIS SPLICE CAN BE DIRECTLY BURIED OR USED IN A HAND HOLE OR VAULT.
- 3. OTHER SIZES ARE AVAILABLE FOR SPECIAL APPLICATIONS.

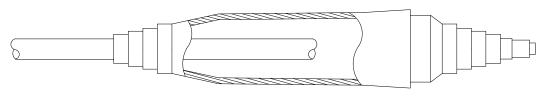
MATERIAL LIST				
ITEM	QTY.	DESCRIPTION	SIN	
1	1	SPLICE KIT, 600V, U.G.	1215	
2	1	CONNECTOR, SLEEVE	#	

WIRE SIZE -	 #SIN
2/0 AL —	 1166
4/0 AL —	1167
350 AL	1169
2/0-4/0 AL	 1454
4/0-350 AL	 1455

OTHER USES



HALF-READY SPLICE



CABLE CAP



CONSTRUCTION STANDARDS

UNDERGROUND SECONDARY SPLICE

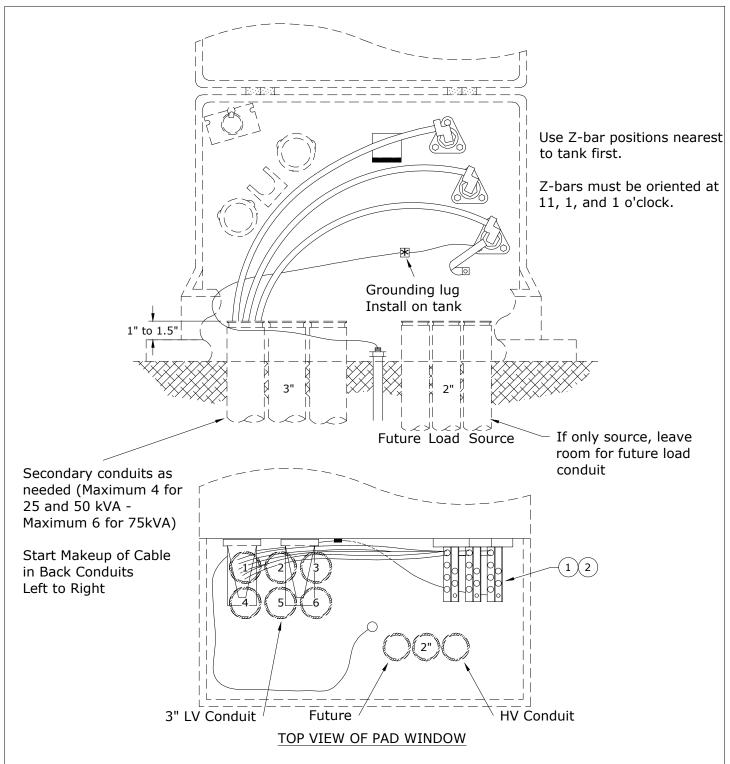
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2/22/00

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1700



Notes:

- 1. Use Std US6 for 25 to 75 kVA padmounts with 5/8" stud.
- 2. Use Std US7 for 100 kVA padmounts with 1" stud.

 $Rev \ 3: \ Added \ US7 \ for \ 100 \ kVA \ padmount \ 1" \ stud \ for \ Z-bar \ connector, \ and \ updated \ drawing \ for \ maximum \ conduits.$

ITEM		DESCRIPTION	l	US6		JS7
NO.		DESCRIPTION		S/N	QTY.	S/N
1	Connector, Z-bar, Al/Cu, 6-Position, #2-500MCM, w/ Streetlight Position			2265	3	2318
2 Cover, Connector, Z-bar, 6-Position		sition	3	2266	3	2266
					REVISIO	NIS



CONSTRUCTION STANDARDS

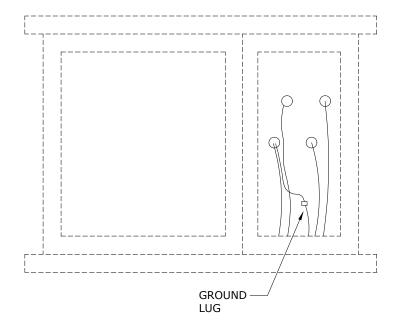
PADMOUNT TRANSFORMER ASSEMBLY SINGLE PHASE SECONDARY

REVISIONS							
5							

PAGE: 1 of 1 US6,US7

CAD FILE: US6,US7

APP: GGW/BG SECTION 1700





Notes:

- 1. This specification covers 3ø padmounted transformers 75 through 1500 kVA, 120/208 V and 277/480 V.
- 2. Conductor size range is 1/0 through 750 kcmil.
- 3. See Std UT30-UT32 Underground Transformers Section 1400 for mounting arrangement.

Rev. 2 - Removed US37 & 38 due to secondary bushing leaks and clearance problems in secondary compartment of transformer.

ITEM	DESCRIPTION	US	535
NO.	DESCRIPTION	QTY.	S/N
1	Connector, PET, 6-750 Al/Cu 1/0 to 750	4	2129
2	1/2" Belleville Assembly, SS 2" Bolt and Washers W/ Bronze Nut	4	1389
3	Cover, Connector, 6-750	4	2176
ITEM	DESCRIPTION	US36	
NO.	DESCRIPTION	QTY.	S/N
1	Connector, PET, 6-750 Al/Cu 1/0 to 750	4	2129
2	1/2" Belleville Assembly, SS 2 1/2" Bolt and Washers W/ Bronze Nut	4	2584
3	Cover, Connector, 6-750	4	2176



CONSTRUCTION STANDARDS

SECONDARY CONNECTORS
THREE PHASE PADMOUNT TRANSFORMERS

	REV1	S	ONS				
R	DATE	E	NGR	OPS			
1	11/12/10		KJP				
2	9/21/21		JDK				
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PAGE: 1 of 1 US35-US38

CAD FILE: US35

APP: HWH/MA SECTION 1700