



# Electric System Mapping Symbols - UG LOCATION

Facility or Item      Symbol & Annotation      Facility or Item      Symbol & Annotation

Distribution & Transmission Substations	SEE OVERHEAD SYMBOLS	Pull Box	
Poles, Pole Structures, Dusk to Dawn & Street Light Luminaires	SEE OVERHEAD SYMBOLS	Communications Pull Box	CP-PAD*
Pole Riser	PR* (prim. only) Footage, SM	Pad Mounted Blade Disconnect Switch	PAD* Amps BDS
69kv Pole Riser	PRT* Footage	Pad Mounted Blade Disconnect Switch Enclosure	PAD* 3-Phase BDS OIL-VAC (Type If not AIR)
Abandonment (Symbol and annotation placed over abandoned facilities)		Pad Mounted Gang Operated Switch	PAD* GOS
Primary Conductor & Route Information	Q	Pad Mounted Gang Operated Switch Enclosure	PAD* 3-Phase GOS Amps GOS VAC (Type If not AIR)
Foreign Owned Primary Conductor	OW	Pad Mounted 4-Way Gang Operated Switch	PAD* 4-GOS
Secondary Conductor		Pad Mounted Gang Operated Auto Throw Switch with Blades	PAD* Amps ATS 3-Amps BDS
Customer or Foreign Owned Secondary Conductor	CO or OW	Pad Mounted Gang Operated Auto Throw Switch with Fuses	PAD* Amps ATS 3-Amps
Service Conductor		Pad Mounted Recloser	PAD* R Amps
Customer or Foreign Owned Service Conductor	CO or OW	Pad Mounted Sectionalizer	PAD* S Amps
Street Light or Dusk to Dawn Conductor	CO or OW	Pad Mounted Gang Operated Switch with Vacuum Interruptor	PAD* 2-Amps GOS OIL 2-Amps VAC
Customer or Foreign Owned Street Light or Dusk to Dawn Conductor		Antenna for DDC Controlled Switch Steel Pole	PAD*
Transmission Conductor Route		Antenna for DDC Controlled Switch Wood Pole	PAD*
Communication Cable - Copper	PA-CS	Pad Mounted I-Phase Transformer	PAD* KVA-SRP*-Phase VS
Communication Cable - Fiber Optic RFS 2785	FIBER, FC	Customer Owned Pad Mounted I-Phase Transformer	PAD* SL* KVA or HP VS
Foreign Owned Communication Cable	OW	3-Phase Bank, Two I-Phase, Pad Mounted Transformers	PAD* KVA-SRP*-Phase VS
Conductor Route Change Arrow		Customer Owned 3-Phase Bank, Two I-Phase, Pad Mounted Transformers	PAD* OW SL* KVA or HP VS
Conduit Index	S*(A*)	3-Phase Bank, Three I-Phase, Pad Mounted Transformers	PAD* KVA-SRP*-Phase VS
Conduit Sleeve with Electronic Marker		Customer Owned 3-Phase Bank, Three I-Phase, Pad Mounted Transformers	PAD* SL* KVA or HP VS
Service Conduit	---K---	3-Phase Pad Mounted Radial Fed or Loop Thru Transformer	PAD* KVA-SRP*
Encased Service Conduit	---KE---	Customer owned 3-Phase Pad Mounted Transformer	PAD* OW SL* KVA or HP VS
Conduit Elbow		I-Phase Doghouse	PAD* DH KVA-SRP*-Phase VS
Conduit Change		3-Phase Doghouse	PAD* DH KVA-SRP*
Casing	CAS, MAT-CASING	Sale/Lease Back Line	
Pad Mounted Capacitor Bank	PAD* CB# KVAR(k)		
Future Pad Mounted Capacitor Bank	PAD* FUTURE		
Three Phase Pulling Enclosure	PAD*		
Single Phase Pulling Enclosure	PAD*		
Pulling Enclosure for Future Transformer	PAD*		
Pad Mounted Fuse	PAD*		
Junction Box			
Customer Owned Junction Box			
Manhole	MH-PAD* SHP		
Transmission Manhole	SHP		
Communications Manhole	SHP		
Customer Owned Manhole	SHP		
Meter Pedestal			
Mole Assembly			
Vault	BV- or V-PAD*		
Secondary T-Tap			
Pad Mounted Primary Meter	PAD* SL* KVA or HP		
Pad Mounted I-Phase Primary Tap	PAD*		
Pad Mounted 2-Phase Primary Tap	PAD*		
Pad Mounted 3-Phase Primary Tap	PAD*		

## Index to Symbol Annotation

Amps = Current Rating in Amperes  
 A\* = Number of Abandoned Conduit  
 CAS = Casing Size  
 CB\* = Capacitor Bank Number  
 (C) = Controlled, Current  
 F = Fixed  
 PF = Controlled, Power Factor  
 RC = Controlled, Remote  
 TP = Controlled, Temperature  
 TM = Controlled, Time  
 V = Controlled, Voltage  
 CI = Conduit Index (SM, MAT-EN-color-banked)  
 CO = Customer Owned  
 CS = Cable Size if other than 22  
 D\* = Number of Ducts  
 EN = Encasing Type  
 FC = Fiber Count  
 HP = Horse Power  
 kVA = Electric Load Rating  
 KVAR = Kilovolt Ampere Reactive  
 MAT = Material Type  
 OW = Owner's Initials  
 NI = Neutral Indicator  
 NQ = Neutral Wire Quantity  
 P = Primary Index (Q-SM+NQ-SM NI)  
 PA = Number of Pairs if other than 25  
 PAD\* = Pad Number  
 AP = Antenna Pole  
 P- = Transformer  
 PD = Dead Front Pad  
 PDC = DDC Controlled Switch  
 PDI or PRI = DDC Controlled Switch - VFI Application  
 PDP = Pulling Enclosure  
 PDS or PRS = S&C Remote Control 'Smart' Switch  
 PDT = Primary Tap  
 PE = Live Front Pad  
 PEA = Live Front Autothrow  
 PM = Primary Meter  
 PR\* = Primary Pole Riser Number  
 Secondary Pole Risers have no Number  
 Q = Quantity  
 S\* = Number of Spare Ducts  
 SHP = Manhole Shape  
 SL\* = SRP Source Load Number  
 SM = Size & Material Codes  
 VS = Secondary Voltage  
 WR = Number of Wire Runs if other than 1

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