Transmission & Distribution Material & Installation Specification

Single Phase Primary Enclosure 200A

Quantity Ι.

The base bid shall include the indicated number of Single Phase Primary Enclosures of this type furnished and installed as hereinafter specified.

П. **Material**

- The material shall be equal in quality, design, performance, and appearance to the Α. items specified on drawing TDMIS-1400.
- Β. This specification covers the minimum requirements for cable junction pedestals designed for single phase service application.
- C. Pedestal shall be made of fiberglass reinforced polymer with ¹/₄" nominal thicknesses.
- All externally facing fiberglass reinforced polymer shall be gel coated. Gel coat color D. shall be Willow green (light) or Munsell green as approved by engineer.
- Ε. The fiberglass reinforced polymer shall be made with fire retardant resin and shall have a flammability rating of HB per UL-94.
- The fiberglass reinforced polymer shall be resistant to typical roadside chemicals. F. The fiberglass material shall conform to the chemical resistance criteria listed in the latest revision of ANSI/SCTE 77. Specimens shall be exposed to the chemicals as follows:

Common Use	Concentration
Road De-Icer	5%
Battery Acid	0.1N
Water Softener	0.1N
Detergents	0.1N
Mineral Acid / Cleaner	0.2N
Lye / Caustic Soda	0.1N
	Road De-Icer Battery Acid Water Softener Detergents Mineral Acid / Cleaner

Acetic Acid	
Kerosene	
Fransformer Oil	
Magnesium Chloride	

- G. padlock.
- Η. 18-8 stainless steel. Parking clips shall be made of 18-8 stainless steel.
- All interior and exterior hardware shall be made of 18-8 stainless steel.
- J. Equipment Enclosure Integrity Standard.
- K. allow unobstructed access to internal hardware.
- L.
- Μ. aesthetic purposes.
- N. The pedestal shall have 4 lifting eyes for hoist slings.
- О. weight of the cover is not sufficient to be considered a locking device.
- Ρ. which conform to IEEE 386.
- Q. without damage or permanent distortion.
- R. shall be as required for the project and as approved by the engineer.

Solvent / Vine

Solvent / Vinegar	5%
Jet Fuel	Per ASTM D543
Mineral Oil	Per ASTM D543
Road De-Icer	5%

The pedestal locking device shall be of cast aluminum-bronze or silicon-bronze with captive 188 stainless steel hardware. The locking device shall have provisions for a

The junction mounting assembly shall be made of 5000 or 6000 series aluminum, or

The pedestal shall meet all criteria set forth in ANSI C57.12.28, Pad-mounted

The pedestal cover shall open 90° and base sidewalls shall be of cut-away type to

The pedestal base shall be designed to withstand a sidewall pressure of 130 psf (6.2 kPa) without cracking. This will simulate soil pressure placed on the pedestal.

Both the pedestal base and cover shall be of a female mold design for security and

The cover shall be supplied with locking devices to prevent accidental closure. The

The junction mounting bar shall be designed to accommodate junctions and elbows

The junction mounting assembly shall be able to withstand a 400 lb. (1780 N) pulling or pushing force along the cable junction axis anywhere along the mounting bar

The quantity of feed thru connectors, elbows, arresters, and other cable accessories

CITY OF COLUMBUS DEPT. OF PUBLIC UTILITIES – DIVISION OF POWER			
DEFT. OF FUBL	IC UTILITIES – DIV	1310IN OF FOWER	
SINGLE PHAS	SE PRIMARY ENG	CLOSURE 200A	
DRAWN BY: AEC	DATE: 01/01/2018		
APPROVED: R. SPRITE		TDMIS-1400	
	SHEET 1 of 3		

S. Grounding shall be as required by TDMIS-1213 and TDMIS-1607.

III. Installation

- A. The installation shall be as shown on drawing TDMIS-1400.
- B. Cabinet shall be installed on a concrete pad, composite pad, or composite ground sleeve as required by project specifications and drawings.
- C. Installation shall include all labels, tags and stickers required by DOP.
- D. Cabinets shall be installed level and plumb. When installed on ground sleeves over direct buried cable trenches, care shall be taken that cabinet is positioned over undisturbed soil alongside the trench to avoid settlement.

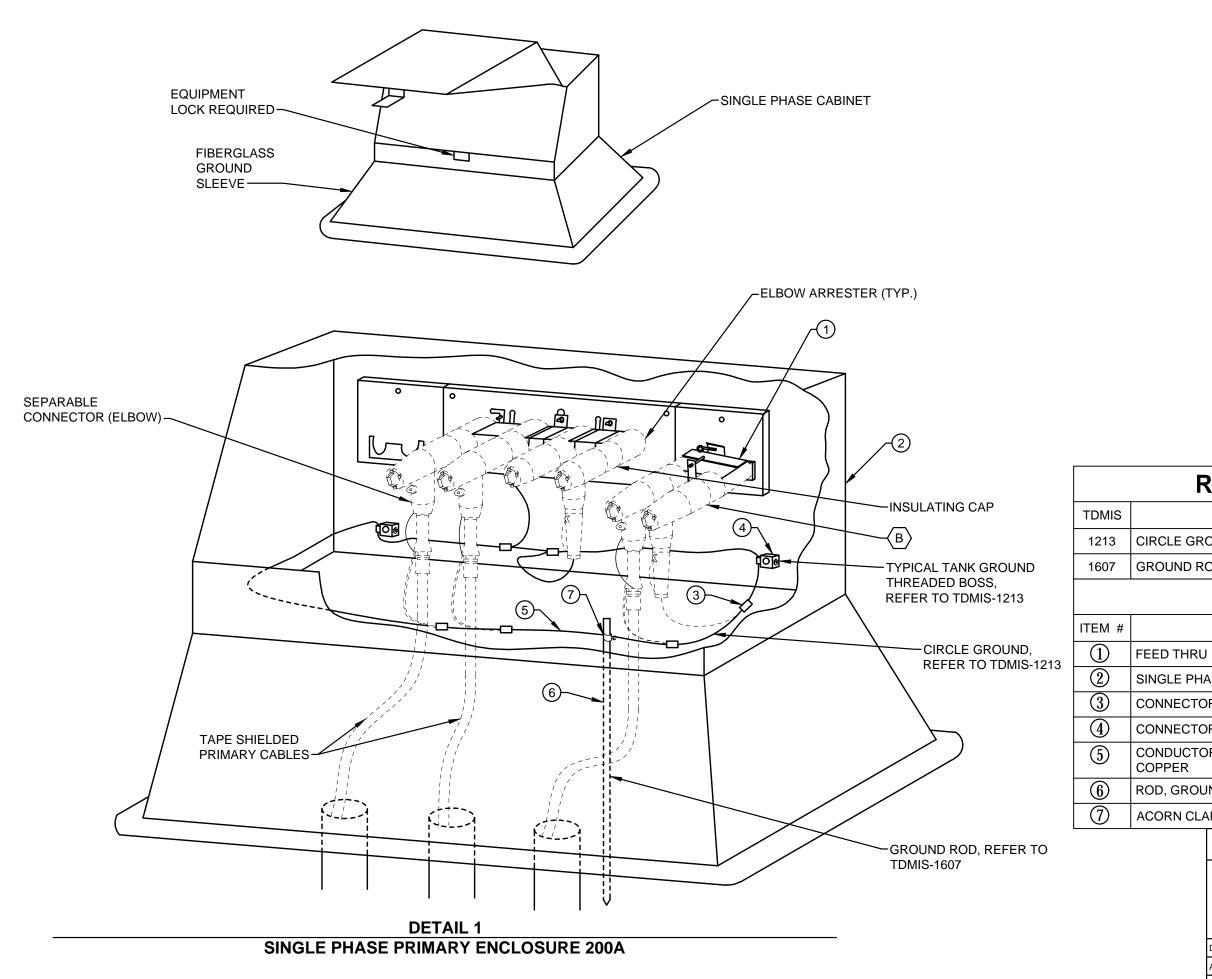
IV. Method of measurement

Shall include cabinet and all mounting and locking hardware, installation, ground sleeves, anchors, excavation, backfill, final grading, seed or sod, grounding, labor, equipment, supervision, and miscellaneous items required for a complete and operational enclosure.

V. Basis of payment

Items	Unit	Description
TDMIS-1400	Each	Single phase primary enclosure, 200A

(CITY OF COLUMBI	JS	
DEPT. OF PUBLIC UTILITIES – DIVISION OF POWER			
SINGLE PHASE PRIMARY ENCLOSURE 200A			
DRAWN BY: AEC	DATE: 01/01/2018		
APPROVED: R. SPRITE		TDMIS-1400	
	SHEET 2 of 3		



CONNECTOR, BRONZE AERIAL TYPE				*	2	
CONDUCTOR, #6 SOLID, SOFT DRAWN COPPER			20083	AS REQ		
ROD, GROUND 5/8"X10" COPPERWELD			*	1		
	ACORN CLAMP			20431	1	
		CITY OF COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES - DIVISION OF POWER SINGLE PHASE PRIMARY ENCLOSURE 200A				
		SINGLE PHAS			RE 200A	
		DRAWN BY: AEC	DATE: 01/01/2018	╡│		
		APPROVED: R. SPRITE			S-1400	
		SCALE: NTS	SHEET: 3 OF 3			

ITEM LIST

DESCRIPTION

SINGLE PHASE PRIMARY ENCLOSURE

CONNECTOR, COMPRESSION TYPE

GROUND ROD TEST

CIRCLE GROUND ASSEMBLY

DESCRIPTION

QTY.

3

1

AS REQ

PART #

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REFERENCE LIST