Metering Transformer Cabinet

1. GENERAL
	1. Quality Assurance
		1. Electrical Components, Devices, and Accessories: Listed and labeled to UL 414 Metering Cabinets, by a qualified testing agency, and marked for intended location and application.
	2. Submittals
		1. Product Data: Include ratings and dimensioned plans, sections, and elevations showing minimum clearances, conductor entry provisions, gutter space, installed features and devices, and material lists for each switch specified.
		2. Drawings: Outline, Schematic and Part Layout drawings shall be provided for each switch. Drawings shall differentiate between manufacturer-installed and field installed wiring. Show both power and control wiring.
		3. Maintenance Data: For each type of product, include maintenance manuals as specified in Division One. Include all features and operating sequences, both automatic and manual. List all factory settings of relays and provide relay setting and calibration instructions, including software, where applicable to be supplied by others.
	3. Guarantee/Warranty
		1. The equipment installed under this contract shall be left in proper working order.
		2. New materials and equipment shall be guaranteed against defects in composition, design, or workmanship. Guarantee certificates shall be furnished upon request
2. PRODUCT
	1. Metering Transformer Cabinet
		1. Manufacturers: Subject to compliance with requirements, provide products by the following:
			1. Lake Shore Electric, LLC.: Metering Transformer cabinet
			2. Lake Shore Electric, LLC. Part No.: [[Insert Part Number](https://lake-shore-electric.com/wp-content/uploads/Area-Protection-Panel_1.pdf)]
			3. Lake Shore Electric, LLC, https://wwww.lake-shore-electric.com/ and/or sales@lake-shore-electric.com
3. GENERAL REQUIREMENTS
	1. Entire enclosure must be listed to UL 414 Standard. UL listing of individual components is not acceptable. Manufacture shall have a minimum of 10 years’ experience building Metering Transformer Cabinets.
	2. Enclosures:
		1. [NEMA 1] or [NEMA 3R rain-tight] enclosures shall be [14GA Steel or Stainless Steel] Enclosure.
			1. Pad-lockable front door shall have split hinged doors with removable center post.
			2. Enclosure shall meet NEC bending radius requirements. Additional bolt on enclosures/accessories to meet this requirement are not approved.
			3. Construction of the enclosure shall be welded. Riveted seams are not approved.
		2. Finishes:
			1. Paint after fabrication. Powder coated ANSI 61 Gray, Textured.
	3. Phase, Neutral, and Ground Buses:
		1. Material: Silver-plated Copper
		2. Size: Minimum of 1,000A per Square Inch
		3. Equipment Ground Bus: Bonded to box.
		4. Isolated Neutral Bus: Insulated from box.
		5. Neutral Bus: Neutral bus rated 100 percent of phase bus.
		6. Round edges on bus.
	4. Bus Links
		1. Standardized bus bar arrangement with removable center link (4" Width), For use with donut type current transformers.
		2. Bar Type Current Transformers are to be Installed in Place of Removable Links.
	5. Short Circuit & Withstand Rating
		1. [Shall have minimum 50KAIC for ampacities up to 3,000A.]
		2. [Shall have minimum 100KAIC for ampacities for 4,000A.]
	6. Voltage & Amperage:
		1. [Insert Amperage & Voltage Requirements]
	7. Additional accessories shall be included in submittal drawings as follows:
		1. [Floor Stands]
		2. [Mounting Panel]
		3. [Z Brackets]
		4. [Enclosure Only]
4. EXECUTION
	1. Examination
		1. Examine elements and surfaces to Metering Transformer Cabinet for compliance with installation tolerances and other conditions affecting performance of the Work.
	2. Installation
		1. Surface, Flush or Base Mounted: Determined by Application
		2. Install anchor bolts to elevations required for proper attachment to Metering Transformer Cabinet.
	3. Field Quality Control
		1. Third Party Tests and Inspections to include the following:
		2. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
		3. Prepare test and inspection reports, including a certified report that identifies Metering Transformer Cabinet and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

End of Section: Metering Transformer Cabinet