

Evaluation Table

PEP ID:	XXXXX
Manufacturer:	Name of Manufacturer
Product Name:	Name of Product

736 Highway and Sign Lighting
 736 Load Center Cabinet
 ADOT Standard Specification: 736-2.07
 ADOT Standard Drawing: T.S. 3-0 through 3-3, 3-5, 3-10
 Responsible Section: Traffic Group

Product Property	Specification/ Test Method	Requirement	Results	Pass/ Fail
Load Center Cabinets, Details	736-2.07 T.S. 3-0	Load Center cabinets, including pole mounted cabinets shall have photoelectric controls and shall also include a concrete foundation, conduit stub-outs, meter socket, rigid metal conduit riser, cabinet housing, panel, breakers, contactor, selection switch, fuses, dry transformer, internal wiring and other incidentals in accordance with the project plans and these specifications. <i>Shall be a free standing and self-supporting NEMA Standard 250 "Enclosure for Electrical / Equipment (1,000 Volt Maximum)" or UL50 "Enclosures for Electrical Equipment" NEMA 3, 3R, or 4 rated load center cabinet Type II or IV.</i>		
Weather Resistance, Listed Housing	736-2.07 T.S. 3-0	The load center cabinet housing shall be of NEMA 3R weather resistant construction and UL 508 listed. <i>Shall be a free standing and self-supporting NEMA Standard 250 "Enclosure for Electrical / Equipment (1,000 Volt Maximum)" or UL50 "Enclosures for Electrical Equipment" NEMA 3, 3R, or 4 rated load center cabinet Type II or IV.</i>		

Product Property	Specification/ Test Method	Requirement	Results	Pass/ Fail
Fabrication	736-2.07 T.S. 3-0	The cabinet and doors shall be made from 1/8 inch thick, 5052-H32 aluminum with mill finish. <i>The cabinet and doors shall be made of 5052-H32 sheet aluminum alloy, thickness 0.125 inch. The inside and outside edges of cabinet shall be free of burrs and provide a smooth, uniform, and natural aluminum finish.</i>		
Cabinet Details	736-2.07	The cabinet top shall be sloped to prevent water accumulation; and shall be constructed to allow proper ventilation and be equipped with a washable or replaceable air filter.		
Door Details	736-2.07	Doors shall be attached using continuous hinges, equipped Corbin locks, and keyed #2 with two keys.		
Door Details	736-2.07 T.S. 3-0	Doors shall also be equipped with two position door stops, three-point door latch with rollers for top and bottom strikes and pad-lockable handles. <i>See T.S. 3-9 (1 of 3) Note 11 for minimum 2-position door stop details</i>		
Circuit Breakers	736-2.07 T.S. 3-0	Circuit breakers shall be molded case, thermal magnetic, bolt-on or plug-in type and shall be U.L. listed. <i>Bolt-On circuit breakers shall be used.</i>		
Dead Front Panel	736-2.07	Load center cabinets shall have a dead front panel to isolate all live electrical circuitry.		
Dead Front Panel Fabrication	736-2.07	The panel shall be fabricated from aluminum sheeting and shall be painted the same as the cabinet.		
Dead Front Panel Hinges	736-2.07	The dead front panels shall be hinged on one side and securely fastened on the other with bolts.		
Dead Front Panel Openings	736-2.07	Switches, breakers and other components shall have openings to operate from the front panel.		

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Door Flange	T.S. 3-0	The cabinet door openings shall be double flanged on all 4 sides to increase strength around the openings and to prevent any liquid or dirt from entering the enclosure when the door is opened.		
Door Gasketing	T.S. 3-0	Gasketing shall be provided on all door panels to provide a weather tight seal that conforms to the applicable requirements of UL 508 Table 21.2, or equivalent lab test method.		
Hinge Hardware	T.S. 3-0	300 series stainless steel ¼-20 carriage bolts and 300 series stainless steel locknuts shall be used to bolt hinges to the cabinet and door.		
Hinges	T.S. 3-0	The hinges shall be made of 075-14 guages 300 series stainless steel. The hinge pins are to be welded at the top and bottom to render them tamper-proof.		
Bolt Holes	T.S. 3-0	Bolt holes shall be gasketed in manner which meet or exceed the requirement of the cabinets NEMA and UL or other independent lab rating.		
Type II Cabinet	T.S. 3-1	Meet the requirements of T.S. 3-1		
Type IV Cabinet	T.S. 3-2	Meet the requirements of T.S. 3-2		
Meter Pedestal Cabinet	T.S. 3-5 (1 of 2) T.S. 3-5 (2 of 2)	Meet the requirements of T.S. 3-5 (1 of 2) and T.S. 3-5 (2 of 2)		
Type II Cabinet Extension	T.S. 3-10	Shall meet the requirements of T.S. 3-10		