

NO	1	2010 EDITION	MADE BY	C. COLE	DATE	03/10	NO	3	DESCRIPTION OF REVISIONS
	2	2012 REVISED NOTE 1		C. COLE		01/12		4	

**NOTES:**

- All materials and construction shall conform to the requirements of the Specifications. However, these T.S. Drawing requirements supercede any conflicting requirement specified in the original 2008 version of the Specifications or any subsequent version (stored or standard) which has not been revised to include advancements specified in these drawings.
- The traffic signal housing/section specified on this drawing is for standard traffic signal applications only. Applications which have the potential for conflicting visibility may require special louvers, longer visors, angled visors or programmable optics as approved by the Department.
- A traffic signal housing consists of a body, hinged gasketed door, terminal block (as applicable) and related hardware. A signal face indication (ball or arrow) module and visor are added to the housing to make a section. Each assembled housing (body, door, module, and visor) shall be called a section. Sections can be either stand alone (single section) or are fastened together to make multiple sections and backplates are added to make a traffic signal face assembly per the configurations herein specified and/or as indicated on the plans.
- The 12-inch housing is shown on Sheet 1 of 4. However, all applicable requirements apply to the 8-inch housing as well.
- The traffic signal housing shall meet or exceed the applicable requirements of MUTCD and ITE Equipment and Material Standards Chapter 2 Vehicle Traffic Control Signal Heads Section 3.0 Physical and Mechanical Requirements and Section 4.0 Housing, Door and Visor.
- Incandescent traffic signal faces or lamps for programmed visibility signal faces shall not be used.
- The housing body shall be one-piece die cast or molded cast aluminum unit. The housing shall be compatible to accept ITE VTCSH-LED complainant LED traffic signal face modules such as those manufactured by Dialight, GE Luminations, Trastar Duralight, Excellence Opto, or other approved signal manufacturers. The back of the body shall be provided with four pre-drilled and tapped holes for backplate mounting. The body shall have terminal block mounts cast into the back wall.
- The housing door shall be a one-piece die-cast or molded cast aluminum with two captive 1/4-inch stainless steel eyebolts with wing nuts (wingnut eyebolt assembly) to latch the door to the body. Once latched, the door shall form a positive dust and weather-proof seal between the door and body via a neoprene, or Similar suitable synthetic rubber gasket material/which is rated for outdoor use. The gasket shall be fitted into the molded gasket channel cast into the perimeter of the door or housing.
- The door shall be provided with four tapped and threaded holes on the front and back, per a standard layout. The holes shall accept a 3/16-inch stainless steel screw. The screws on the front are for the visor. The screws on the back shall also include four ITE VTCSH complainant LED traffic signal face module holding clips. These clips shall be able to hold the gasketed traffic signal face module securely and properly aligned (weather and dust-tight seal) to the inside of the door.
- All exterior portions of the body and door shall be powder coated or painted a minimum of two coats of dull black paint. The finish achieved shall have a minimum outdoor weathering rating of 12 or more years. The standard dull black color is Federal Standard (FS) 595A or b 37038. Any field damage of the housing shall be repainted with a matching color.
- All exterior hardware such as hinge pins, bolts, screws, washers and locking wing nuts shall be stainless steel. All interior screws, fittings, washers, bolts, connectors, terminal blocks shall be stainless steel, plated steel aluminum or brass that is corrosion resistant.
- It is allowable to use reconditioned 3M HVS 131 Signals for programmed visibility applications. The reconditioned units shall be inspected by the engineer prior to use.

NOT TO SCALE

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS	REVISION	01/12
<b>SIGNATURE</b>		DRAWING NO.	T.S. 8-4
APPROVED FOR DISTRIBUTION	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION NOTES	SHEET NO.	2 OF 4
<b>ON FILE</b>			