CURVE WARNING SYSTEM TEST PLANS

1. DEVICE NAMING COORDINATION

- 1.1. The System Integrator shall coordinate with the TMC/ROC to identify the device names for each device.
- 1.2. The System Integrator shall then send a request to TOTS to identify the network name, IP address, and any pertinent configuration information.

2. EXPLANATION - STANDALONE (SALT) TESTING

- 2.1. The System Integrator shall work with the DEVICE VENDOR (if required by the testing form) and complete the NDOT specified SALT tests (non-network) on each unit of equipment after installation.
- 2.2. Conduct SALT testing on each unit of equipment as outlined on the NDOT provided testing form.
- 2.3. The System Integrator shall coordinate through the Resident Engineer and the Construction Crew to have an appropriate NDOT representative present for the onsite inspection.
- 2.4. The System Integrator shall submit the DEVICE vendor commissioning documents with the SALT testing to the Engineer for review and approval.
- 2.5. Supply a bucket truck and operator, or suitable equivalent equipment necessary to carry out procedures as required by the testing documents, at no direct payment.

CURVE WARNING SYSTEM (CWS) SALT PROCEDURE

TEST #	SALT TEST PROCEDURE			EXPECTED RESULT			PASS / FAIL	
CWS Name:			IP A	ddress:		GPS:		
TOTS Network Name:			Asso	ciated Cal	oinet Name:			
Purpose ar	nd General Ve	rification						
		SALT tests the proper installat he manufacture's software, the						
		or each test below, complete th uss" on this form if the entire m						
CWS Infor	rmation							
1.	Verify CWS Information using the manufacturer software or device label.			Manufacturer:				
				Model:			Pass / Fail	
				Serial Number:			1 455 / 1 411	
				Firmwa	re Ver:			
2.	Manufacturer's commissioning of CWS equipment.			Manufacturer confirmation of full operation of all CWS -associated equipment.			Pass / Fail	
Equipment	t Verification			I				
3.	Verify CWS controller is securely mounted in cabinet.			CWS co cabinet.	ntroller is securely r	Pass / Fail		
4.	Using a meter, verify the system is properly bonded to earth ground.			Meter reading of 5 Ohms or less.			Pass / Fail	
5.	Verify Ethernet cable length does not exceed 328 feet from the CWS Controller to the PoE++ injector or PoE++ switch, using either a time domain reflectometer or		d	The Ethernet cable length is less than 328 feet. Cable Length:			Pass / Fail	
	beginning- and end-foot markers.							
6.	Verify power supply energizes the system.			System is energized.			Pass / Fail	
7.	Verify all cabling is labeled with the to/from on each end and at any major transition point and is neatly managed throughout the cabinet.			All premise or inside plant cables originating and ending in the cabinet are properly terminated and labeled.			Pass / Fail	
				(OSP) us				
					re neatly managed u le hook-and-loop fas			
8.	Verify CWS is accessible via User Interface (UI).			CWS accessible via User Interface (UI).			Pass / Fail	

9.	Verify CWS oper Interface (UI).	rations locally via User	CWS to	urns on/off via User In	Pass / Fail							
10.	Using manufacture to actuate the field	rer's software, issue command d device.	Visual activati	confirmation of field on.	Pass / Fail							
11.	Using manufacture to de-actuate the	rer's software issue command field device.	Visual confirmation of field device deactivation.			Pass / Fail						
Signatures												
DATE	AGENCY/FIRM	PERFORMED BY (Print Name) (Integrator)	INTL	AGENCY/FIRM	WITNESSED BY (Print Name) (NDOT)		INTL					
Integrator Signature												
NDOT S	Signature											

- 3. EXPLANATION SUBSYSTEM (SST) TESTING
 - 3.1. ***DOES NOT APPLY TO THIS SYSTEM AS IT DOES NOT CONNECT INTO THE NETWORK OR BACK TO THE TMC/ROC***