

Rev. 09-21-26:
added T-SG- 1 & T-SG-11

STANDARD ROADWAY DRAWINGS

<u>DWG. NO.</u>	<u>REV.</u>	<u>DESCRIPTION</u>
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING

STANDARD TRAFFIC DESIGN DRAWINGS

<u>DWG. NO.</u>	<u>REV.</u>	<u>DESCRIPTION</u>
T-SG-1	12-18-25	WOOD POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-4	12-18-25	SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-7	12-18-25	SIGNAL HEAD ASSEMBLIES
T-SG-7C	12-18-25	TYPICAL SIGNAL HEAD PLACEMENT ONE-LANE AND TWO-LANE APPROACHES
T-SG-9A	12-18-25	MISCELLANEOUS SIGNAL DETAILS
T-SG-11	12-18-25	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	12-18-25	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
T-SG-13	12-18-25	FLASHING BEACON DETAIL
T-WZ-40	03-26-25	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	03-26-25	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD

Rev. 09-21-26:

Added items 730-01.05, 730-08.02, 730-09.20, 730-10.01 and 730-11.01.

Modified quantity for item 730-05.04

Added footnote nos. 10 & 11.

ESTIMATED ROADWAY QUANTITIES

	<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
1	712-01	TRAFFIC CONTROL	LS	0.1
	717-01	MOBILIZATION	LS	0.1
10	730-01.05	REMOVE & RELOCATE SCHOOL SIGNAL EQUIPMENT	LS	1
2	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	8
3	730-05.04	MODIFY EXISTING ELECTRICAL SERVICE CONNECTION	EACH	3
4	730-08.02	SIGNAL CABLE - 5 CONDUCTOR	LF	55
4	730-08.03	SIGNAL CABLE – 7 CONDUCTOR	LF	350
11	730-09.20	SPAN WIRE ASSEMBLY	LF	105
	730-10.01	TETHER WIRE ASSEMBLY - 1/4" DIAMETER	LF	105
	730-11.01	STEEL CONDUIT RISER ASSEMBLY	EACH	1
5	730-15.16	CABINET MAINTENANCE (FILTER)	EACH	1
6	730-15.33	CABINET (FLASHER)	EACH	2
7	730-16.04	CONTROLLER (ATC)	EACH	1
8	730-16.05	CONTROLLER (FLASHER)	EACH	2
9	730-16.51	CABINET MONITOR UNIT	EACH	1

FOOTNOTES:

- (1) Traffic control applications shall be determined by the TDOT project supervisor and regional traffic engineer. Item includes any signs, arrow boards, and/or barrels as needed per MUTCD (11th Edition, Section 6P). If needed, TDOT Standard Drawings T-WZ-40 and T-WZ-41 may be used for additional traffic control applications. Signs to be used per MUTCD standards with directions from the TDOT project supervisor and regional traffic engineer.

Rev. 09-21-26:

Revised footnotes 3 & 4 and added footnotes 10 & 11

FOOTNOTES (CONT.):

- (2) Item includes the removal of the existing signal heads.
- (3) The contractor shall be responsible for contacting the local utility to obtain an estimate for any charges by the utility for modifying an electrical service to the signal and flasher cabinets. These charges and any other equipment necessary for a complete service connection shall be included in the price bid for this item for payment by the contractor. Item includes the cost of the relocation of the meter on pole # 022627 to pole #107393 and to add a 1" riser for the power service on Pole # 107393 at location 2.
- (4) Item includes the removal of the existing signal cable. 5c cable intended to be used for school flasher modifications per TDOT standard drawings.
- (5) Item includes the removal of the existing cabinet filter. The new cabinet filter shall consist of a one-inch thickness and have a MERV 7 rating or greater. The contractor to verify the required filter size required for each signal cabinet before ordering the new cabinet filter at each intersection.
- (6) Item includes the removal of the existing flasher cabinet.
- (7) The controller shall be Yunex. Item includes the removal of the existing signal controller. This item also includes the cost of transferring all current signal controller settings (i.e., signal timings, phasing, etc.) from the existing signal controller to the new signal controller. The contractor to verify the functionality of the transferred controller settings and includes field testing, verification, and any adjustments required for each intersection.
- (8) Item includes the removal of the existing flasher controller. This item also includes the cost of transferring all the current flasher controller settings from the existing flasher controller to the new flasher controller for location 2. The contractor to verify the functionality of the transferred controller settings and includes field testing, verification, and any adjustments required for location 2.
- (9) The cabinet monitor unit shall be Erbele Design Inc (EDI). Item includes the removal of the existing cabinet monitor unit. The contractor to verify the compatibility of the cabinet monitor unit with the new controller and the existing cabinet at each intersection.
- (10) Item includes the removal and relocation of the existing school flasher assembly & sign to new span as shown on plan at location 2, sheet 16.
- (11) Item includes the cost for complete replacement and installation of a new overhead span wire assembly including the removal of existing support wires, any re-guying or new guying devices required as determined by the engineer, and all required new mounting attachment hardware. The existing attachment heights on the existing poles are to remain and not be raised or lowered with the new span wire assembly. All traffic signal heads and accompanying tether wire to meet minimum vertical clearance requirements over roadway according to TDOT Standard Drawing T-SG-1.

Rev. 09-21-26:

Revised project description to reflect updated scope of work.

PROJECT NOTES
REGARDING TSMP IMPROVEMENTS

Project Description

The scope of this contract consists of removing all existing traffic signal displays, installing new traffic signal heads with backplates, and replacing the existing signal controller and conflict monitor at the intersection of SR-53 (East Hull Avenue) and Murray Street in Gainesboro, Jackson County, Tennessee. Existing signal cables (conductors) shall be removed & replaced with new signal cables.

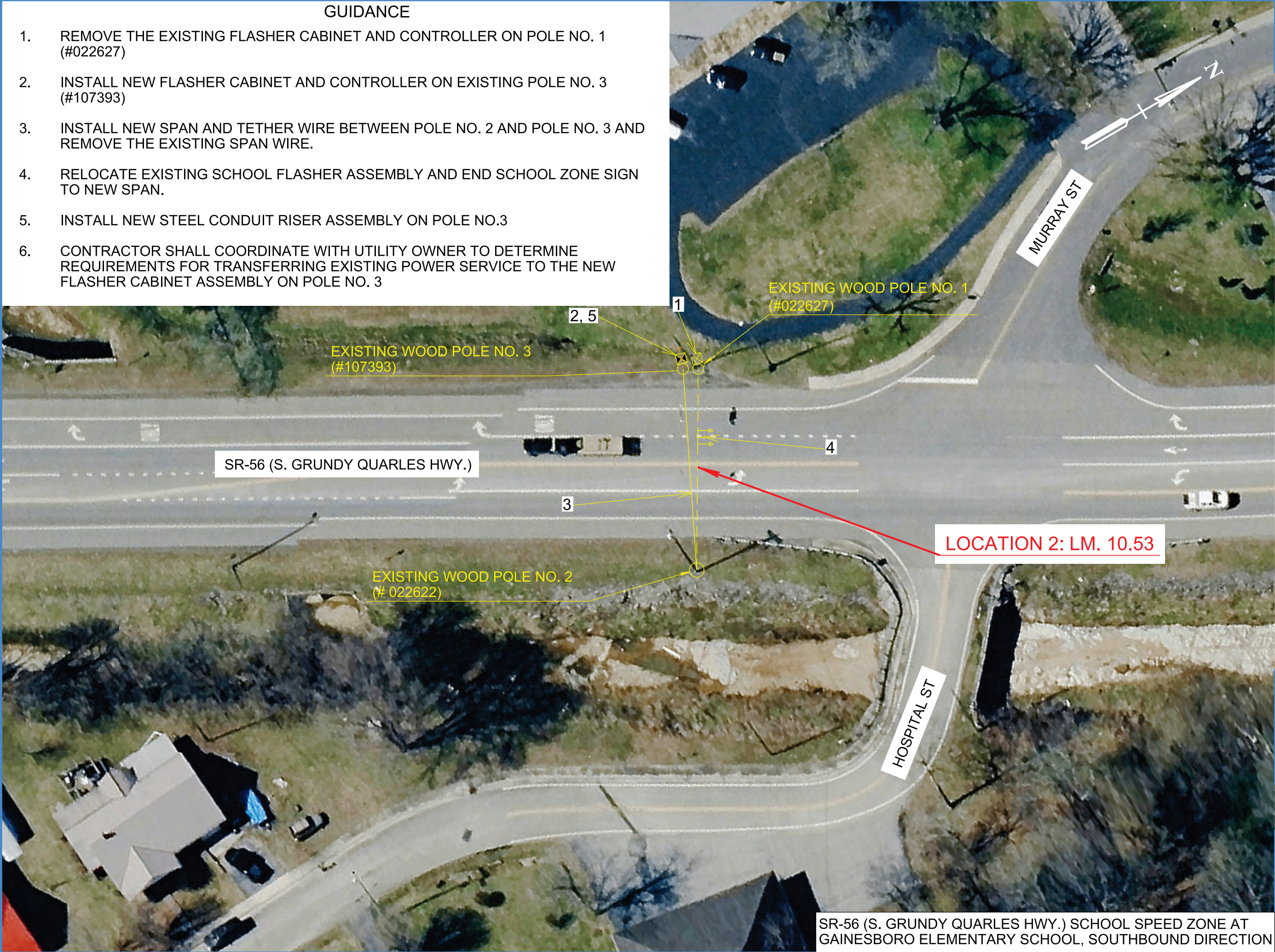
This project also includes removal of the existing school speed zone flasher cabinet and controller for both travel directions on SR-56 (South Grundy Quarles Highway) at the Gainesboro Elementary School speed zone in Gainesboro, Jackson County, Tennessee. The existing overhead school zone flasher system, including overhead flashing beacons, overhead school zone signs, and flasher cable, shall be retained at the southern location. The existing overhead school zone flasher system, including overhead flashing beacons, and overhead school zone signs, shall be relocated to new span wire installed from pole # 3 to pole # 2 at the northern location. Existing electrical power services shall be reconnected.

Basis of Payment

The accepted quantities will be paid for at the contract unit price per item of work. The price shall be full compensation for all work as directed by the Engineer, including the furnishing of all labor, tools, equipment and incidentals to satisfactorily complete the work.

GUIDANCE

- 1. REMOVE THE EXISTING FLASHER CABINET AND CONTROLLER ON POLE NO. 1 (#022627)
- 2. INSTALL NEW FLASHER CABINET AND CONTROLLER ON EXISTING POLE NO. 3 (#107393)
- 3. INSTALL NEW SPAN AND TETHER WIRE BETWEEN POLE NO. 2 AND POLE NO. 3 AND REMOVE THE EXISTING SPAN WIRE.
- 4. RELOCATE EXISTING SCHOOL FLASHER ASSEMBLY AND END SCHOOL ZONE SIGN TO NEW SPAN.
- 5. INSTALL NEW STEEL CONDUIT RISER ASSEMBLY ON POLE NO.3
- 6. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER TO DETERMINE REQUIREMENTS FOR TRANSFERRING EXISTING POWER SERVICE TO THE NEW FLASHER CABINET ASSEMBLY ON POLE NO. 3



TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	CPR-53(66)	15

REVISED 09/21/2026: REVISED GUIDANCE NOTES. ADDED EXISTING WOOD POLE # 3, NEW SPAN WIRE AND POLE NUMBERS.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNAL
LAYOUT

SCALE: 1"= 20'

SR-56 (S. GRUNDY QUARLES HWY.) SCHOOL SPEED ZONE AT GAINESBORO ELEMENTARY SCHOOL, SOUTHBOUND DIRECTION