

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of Interconnect cable from US 301 and Rosaryville Rd./Old Indian Head Rd. north to US 301 and Fairhaven Avenue, in Prince Georges County. US 301 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION:

- The operation at US 301 and Fairhaven Ave. shall remain the same. The existing controller cabinet will be retrofitted with three 4-channel amplifiers. Farside sampling stations shall be provided in both directions of US 301.
- The operation at US 301 and Rosaryville Rd. shall remain the same. A master controller unit and one 4-channel amplifier shall be installed into the existing cabinet. Farside sampling stations shall be provided in both directions of US 301.

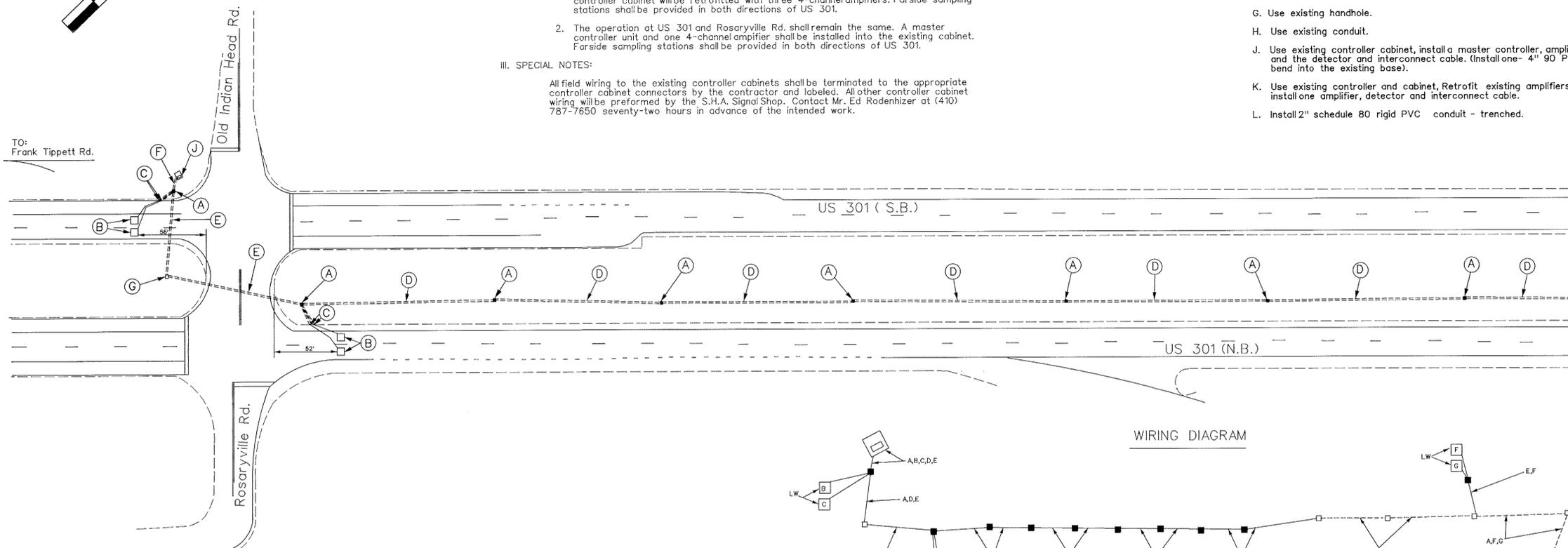
III. SPECIAL NOTES:

All field wiring to the existing controller cabinets shall be terminated to the appropriate controller cabinet connectors by the contractor and labeled. All other controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of the intended work.

CONSTRUCTION DETAILS

- Install electrical handhole.
- Install 6" x 6" loop detector encased in 1/4" flexible tubing (4- turns).
- Install 1" galvanized electrical conduit for detector sleeve.
- Install 3" schedule 80 rigid PVC conduit- trenched.
- Install 4" schedule 80 rigid PVC conduit- bored.
- Install 4" schedule 80 rigid PVC conduit- trenched.
- Use existing handhole.
- Use existing conduit.
- Use existing controller cabinet, install a master controller, amplifiers, and the detector and interconnect cable. (Install one- 4" 90 PVC bend into the existing base).
- Use existing controller and cabinet, Retrofit existing amplifiers and install one amplifier, detector and interconnect cable.
- Install 2" schedule 80 rigid PVC conduit - trenched.

US 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.



WIRING KEY

A — 12 PAIR COMMUNICATION CABLE JELLYFILLED (UNDERGROUND)

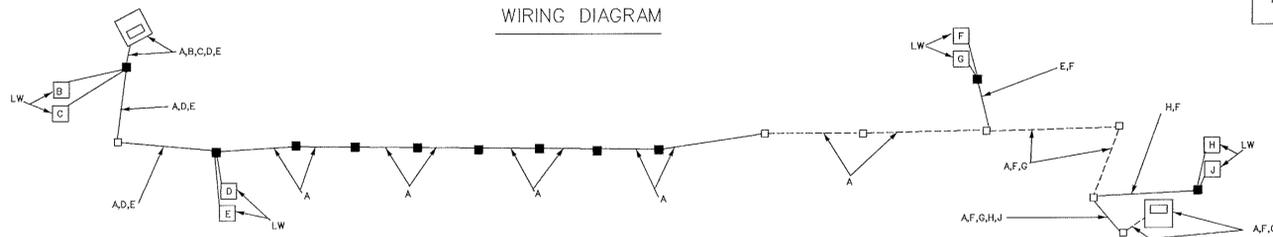
B
C
D
E
F
G
H
J

2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED

LW — LOOP WIRE (NO. 14 A.W.G.)

NOTE: ALL EXISTING ELECTRICAL CABLES SHALL BE MAINTAINED

WIRING DIAGRAM



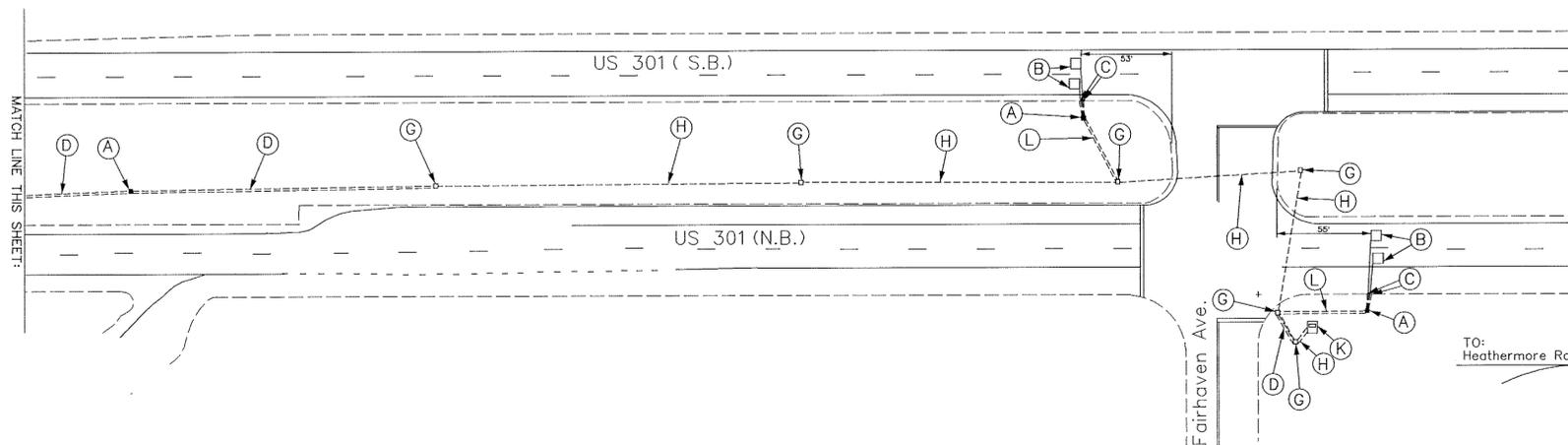
EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE S.H.A. AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EA.	Detector rack retrofit.
9002	4 EA.	Detector amplifier 4- channel (rack mt.).
9003	1 EA.	Detector panel.
9004	1 EA.	Detector rack power supply.
9087	1 EA.	Controller, Master ASC 10000 with telemetry.

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA.	Maintenance of traffic.
8031	1 EA.	Install conduit bend in existing base.
8042	110 L.F.	Furnish and install 2" schedule 80 PVC conduit- trenched.
8044	1400 L.F.	Furnish and install 3" schedule 80 PVC conduit- trenched.
8046	30 L.F.	Furnish and install 4" schedule 80 PVC conduit- trenched.
8052	30 L.F.	Furnish and install No. 6 AWG stranded bare copper ground wire
8053	125 L.F.	Furnish and install 1" electrical conduit galvanized sleeve.
8056	200 L.F.	Furnish and install 4" schedule 80 PVC conduit- bored.
8063	11 EA.	Furnish and install electrical handhole.
8068	2150 L.F.	Furnish and install 12 pair communication cable, jellyfilled (underground).
8071	1 EA.	Furnish and install ground rod-3/4" dia.x 10' length.
8073	1330 L.F.	Furnish and install 2-conductor electrical cable (No. 14 AWG) aluminum shielded.
8078	1540 L.F.	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).
8079	420 L.F.	Furnish and install sawcut for signal (loop detector).



UTILITY LEGEND

- G — G — GAS MAIN
- W — W — WATER MAIN
- S — S — SEWER MAIN
- E — E — ELECTRIC CABLES
- A — A — AERIAL CABLES
- T — T — TELEPHONE CABLES



REVISIONS	APPROVALS
	 ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	 ASST. DISTRICT ENGINEER, TRAFFIC
	 CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	 DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

US 301 and Rosaryville Rd./ Old Indian Head Rd. to US 301 and Fairhaven Avenue

DRAWN BY: MILESKY	F.A.P. NO. XX1005885	TS NO. 1763	SHEET NO. 1 OF 1
CHECKED BY: RRZ	S.H.A. NO. PRINCE GEORGE'S	T.I.M.S. NO.	
SCALE: 1" = 50'	COUNTY: PRINCE GEORGE'S	LOG MILE: 08.13 to 08.48	
DATE: 02-04-00			

PG321A52/1B52