

GENERAL

THIS PROJECT INVOLVES A MINOR MODIFICATION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 26 (LIBERTY ROAD) AT MD 75 (GREEN VALLEY ROAD) IN FREDERICK COUNTY. VIDEO DETECTION WILL BE ADDED TO CAPTURE PRESENCE DETECTION ON MD 26. THE EXISTING VEHICULAR PRESENCE LOOP DETECTORS ALONG MD 75 WILL BE UPGRADED TO VIDEO DETECTION. ADDITIONALLY, PASSAGE DETECTION WILL BE REPLACED ALONG ALL INTERSECTION APPROACHES.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR PHASE, SEMI TRAFFIC ACTUATED MODE WITH SPLIT PHASING ON THE SIDE STREET. THE EXISTING ALTERNATE SIDE STREET PEDESTRIAN PHASE WILL REMAIN.

CONTROLLER REQUIREMENTS

THE SHA SIGNAL SHOP WILL RETROFIT THE EXISTING CABINET WITH A DETECTOR RACK AND ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT WITHIN THE CABINET.

PROJECT CONTACTS

Mr. David Coyne
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Chief Traffic Operations Division
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Mr. Sonny Bailey
Sign Shop
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Mr. Raymond Johnson
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Assistant Chief, Traffic Operations Division
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Mr. Andria Abend
Utilities Engineer
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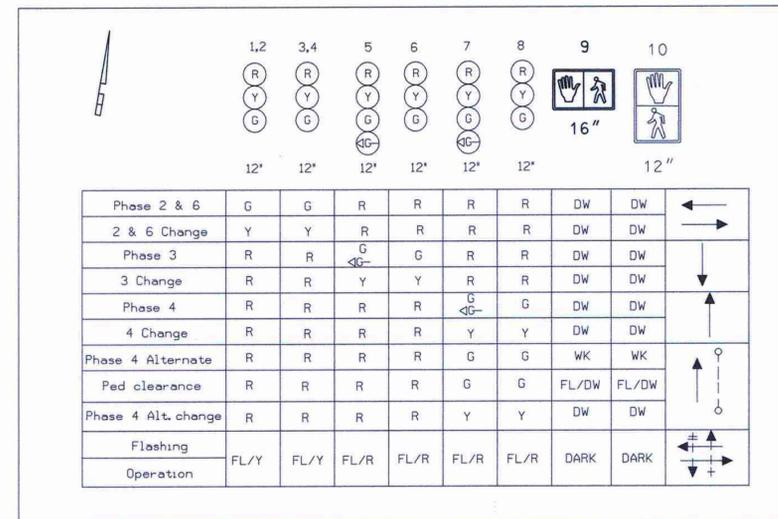
Mr. Ed Rodenhizer
Team Leader Signal Operations
410-787-7650

EQUIPMENT LIST

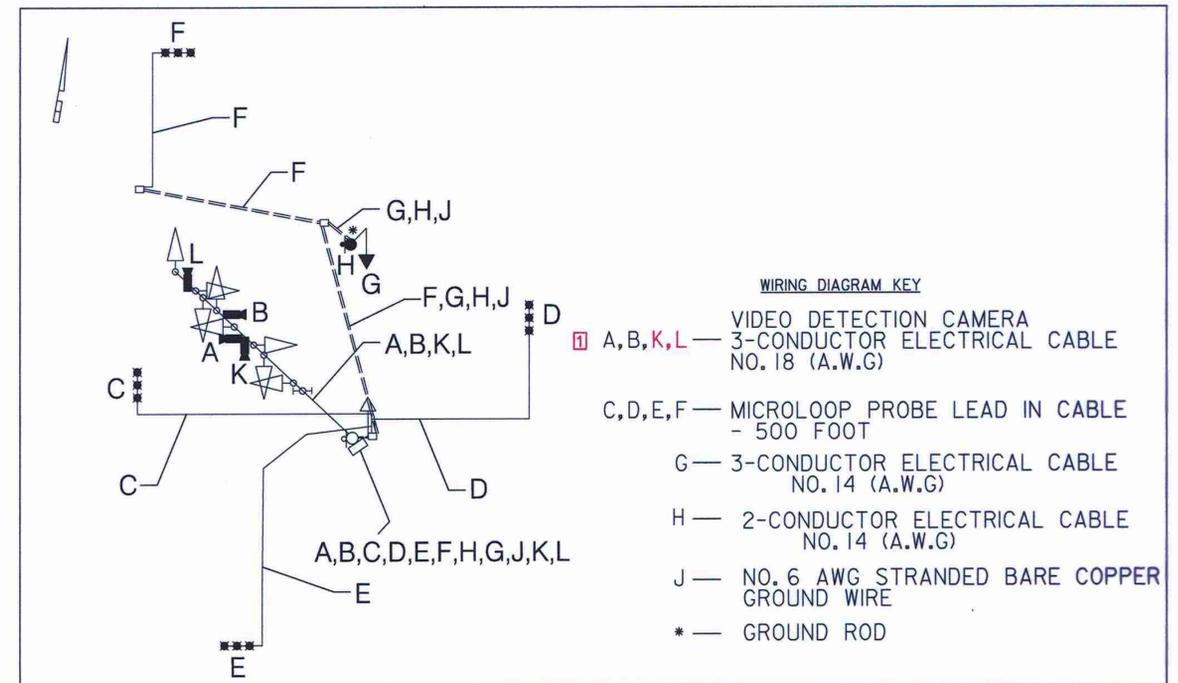
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION		
* 9046	1 EA	DETECTOR RACK RETROFIT
* 9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT (1-4 CAMERAS)
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR		
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8002	1 EA	ADJUST HANDHOLE TO GRADE
8006	1 EA	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT PER ASSIGNMENT
8007	4-2 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA AND CABLE UP TO (500')
8011	95 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH-SLOTTED
8012	10 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH-TRENCHED
8018	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8022	4 EA	FURNISH AND INSTALL MICROLOOP PROBE SET
8023	955 LF	FURNISH AND INSTALL SAWCUT
8026	1 EA	FURNISH AND INSTALL 16" LED PED SIGNAL HEAD
8030	15 LF	FURNISH AND INSTALL 1" FLEX LIQUID TIGHT DETECTOR SLEEVE
8031	170 SF	FURNISH AND INSTALL 5" CONCRETE SIDEWALK
8032	110 LF	FURNISH AND INSTALL 2-CONDUCTOR ELECTRICAL CABLE (14 AWG)
8033	115 LF	FURNISH AND INSTALL 3-CONDUCTOR ELECTRICAL CABLE (14 AWG)
8034	1 EA	FURNISH AND INSTALL PED POLE ANY SIZE WITH FOUNDATION AND GROUND ROD

* TO BE INSTALLED BY SHA SIGNAL SHOP

PHASE CHART



WIRING DIAGRAM



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 26 AND MD 75
LIBERTYTOWN, MARYLAND

TRAFFIC SIGNAL - GENERAL INFORMATION

SCALE: 1"=20' ADVERTISED DATE: _____ CONTRACT NO. AX1415105

DESIGNED BY: C.J.W COUNTY: FREDERICK
DRAWN BY: C.J.W LOGMILE: 10002609.68
CHECKED BY: J.W.B TMS NO. J513
F.A.P. NO. AC-STPG-NHG-000A(217)E TOD NO. _____

TS NO. 2169D DRAWING - OF SHEET NO. 2 OF 2

John W. Bailey
REDLINE REVISION 3/29/2010