

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE REPLACEMENT OF EXISTING PRESENCE LOOP DETECTORS WITH VIDEO DETECTION CAMERAS AND THE REPLACEMENT OF EXISTING ADVANCE LOOP DETECTORS WITH MICRO-LOOP PROBES AT THE INTERSECTION OF MD 5 BUSINESS (LEONARDTOWN ROAD) AND VIVIAN ADAMS DRIVE IN CHARLES COUNTY. MD 5 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASES FOR THE SOUTHBOUND MOVEMENT OF MD 5. THE MD 5 BUSINESS THROUGH MOVEMENTS OPERATE CONCURRENTLY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET/CONTROLLER AND PHASING WILL BE UTILIZED.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO DETECTION CAMERAS.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE No.	QUANTITY	DESCRIPTION
900000	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT (1 TO 4 CAMERAS)

EQUIPMENT LIST "B"

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

CATEGORY CODE No.	QUANTITY	DESCRIPTION
800000-EA	2 EA	16 INCH PEDESTRIAN COUNTDOWN SIGNAL HEAD - PEDESTAL MOUNT
801706	10.5 SF	REMOVE SIGN FROM EXISTING OVERHEAD STRUCTURE
810550	4 EA	MICROLOOP PROBE, 500 FOOT LEAD-IN CABLE
816001	3 EA	VIDEO DETECTION CAMERA
816005	3 EA	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
862102	80 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
811001	2 EA	ELECTRICAL HANDHOLE
805160	20 LF	1 IN. LIQUID TIGHT FLEXIBLE NON-METALIC CONDUIT FOR DETECTOR SLEEVE
861107	180 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

CONTACTS FOR DISTRICT 5:

KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER,
TRAFFIC
410-841-1019

CHUCK E. GEORGE
ASSISTANT DISTRICT ENGINEER,
MAINTENANCE
410-841-1013

JOHN S. MAYS
UTILITIES ENGINEER
410-841-1039

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
410-787-7676

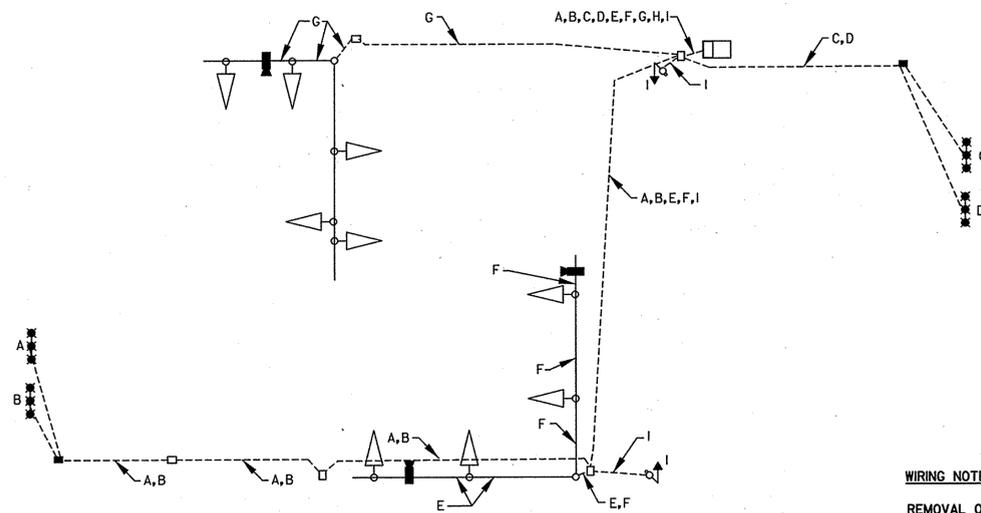
MR. MIKE STOCKER
SIGNAL SHOP WAREHOUSE
410-787-7696

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



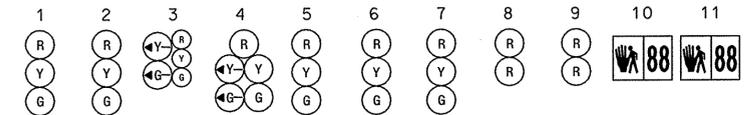
WIRING NOTE

REMOVAL OF EXISTING 3 CONDUCTOR PEDESTRIAN SIGNAL CABLES SHALL BE INCIDENTAL TO THE INSTALLATION OF THE NEW 5 CONDUCTOR ELECTRICAL CABLES 'H' AND 'I'.

WIRING KEY

A,B,C,D	MICROLOOP PROBE LEAD-IN CABLE (500 FT.)
E,F,G	VIDEO DETECTION LEAD-IN CABLE (250 FT.)
H,I	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 2 + 6	G	G	G	G	G	R	R	R	R	DW	DW	
2 + 6 CHANGE	2 + 6 CHANGE MAY CHANGE TO PHASE 1 + 6											
PHASE 1 + 6	R	R	←GG	←GG	G	R	R	R	R	DW	DW	
1 + 6 CHANGE	R	R	←YY	←YY	Y	R	R	R	R	DW	DW	
PHASE 4	R	R	R	R	R	G	G	FL/R	FL/R	DW	DW	
4 CHANGE	R	R	R	R	R	Y	Y	R	R	DW	DW	
PHASE 4 ALT.	R	R	R	R	R	G	G	FL/R	FL/R	WK	WK	
PED CLR/COUNTDOWN	R	R	R	R	R	G	G	FL/R	FL/R	FL/DW	FL/DW	
4 ALT. CHANGE	R	R	R	R	R	Y	Y	R	R	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 5 BUSINESS AND VIVIAN ADAMS DRIVE
GENERAL INFORMATION SHEET

REVISION C CONSULTANT

WALLACE, MONTGOMERY & ASSOCIATES, LLP
CIVIL AND STRUCTURAL ENGINEERS
110 West Road
Suite 300
Towson, Maryland 21204

SCALE: NTS DATE: 03/19/01 CONTRACT NO.: 23854T2502870

DESIGNED BY: COUNTY: CHARLES
DRAWN BY: B. THOMPSON JAH LOGMILE: 08000511.23
CHECKED BY: T.I.M.S. NO.:
F.A.P. NO.: TOD NO.:

DRAWING NO. 3144C SHEET NO. 8 OF 10

BY: \$USER\$