PROJECT DESCRIPTION

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1 THIS PROJECT INVOLVES REPLACING THE EXISTING PEDESTRIAN SIGNALS WITH COUNTDOWN PEDESTRIAN SIGNALS. INSTALLING AUDIBLE PUSH BUTTONS ~~AND INSTALLING VIDEO DETECTION.~~ MODIFICATIONS INCLUDE INSTALLING NEW CONDUIT. AND PAVEMENT MARKINGS.
MD 198 IS ASSUMED TO RUN IN THE EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE EXISTING PHASING AT THE INTERSECTION WILL REMAIN.

CONTROLLER REQUIREMENTS

N/A

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
1	~~900000~~	~~1 EA~~	~~VIDEO INTERFACE EQUIPMENT (1-4 CAMERAS)~~

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

NONE

EQUIPMENT LIST "B"

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

	AX3745133 ITEMS	CATEGORY CODE NO.	SPECIFICATION NUMBER	QUANTITY	DESCRIPTION
	5006	585412	549.556	215 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
	5007	585625	549.556	25 LF	24 INCH WHITE PERMANENT THERMOPLASTIC PAVEMENT MARKINGS
	6006	655120	655	32 SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
	8004	800000	814	2 EA	16 INCH LED PEDESTRIAN COUNTDOWN SIGNAL HEAD
	8002	800000	817	2 EA	AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON
	8006	800000	817	2 SF	FURNISH AND INSTALL PEDESTRIAN EDUCATION SIGN
	8016	800000	816	1 EA	APS CENTRAL CONTROL UNIT
	8005	800000	800	1 EA	REMOVE AND DISPOSE PER ASSIGNMENT PAVEMENT MARKINGS
	8025	800000	800	1 EA	FURNISH AND INSTALL CONDUIT BEND IN EXISTING FOUNDATION
	8001	801004	801	1 CY	CONCRETE FOR SIGNAL STUCTURE FOUNDATION
	8007	802501	804	25 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
	8008	805135	805	25 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
1	~~NEG~~	~~816001~~	~~800~~	~~2 EA~~	~~VIDEO DETECTION CAMERA~~
1	~~NEG~~	~~816005~~	~~800~~	~~1 EA~~	~~CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER~~
1	~~NEG~~	~~816010~~	~~800~~	~~1 EA~~	~~CONTROL CABLE, 500 FOOT VIDEO DETECTION CAMERA TO CONTROLLER~~
	8003	818004	818.821	2 EA	BREAKAWAY PEDESTRIAN POLE - ANY SIZE
	8013	861105	810	270 LF	ELECTRICAL CABLE- 2 CONDUCTOR (NO. 14 AWG)
	8014	861107	810	240 LF	ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 AWG)
1	8017	862101	810	2200 LF ~~875 LF~~	LOOP WIRE ENCASED IN FLEXIBLE TUBING
1	8018	862102	815	400 LF ~~225 LF~~	SAW CUT FOR SIGNAL (LOOP DETECTOR)
	8019	833002	805	30 LF	1 INCH DIAMETER RIGID STEEL CONDUIT, SHCEDULE 40
	NEG	861104	810	270 LF	ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

CONTACTS FOR DISTRICT 5:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER, TRAFFIC
410-841-1003

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER, MAINTENANCE
410-841-1013

MR. 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

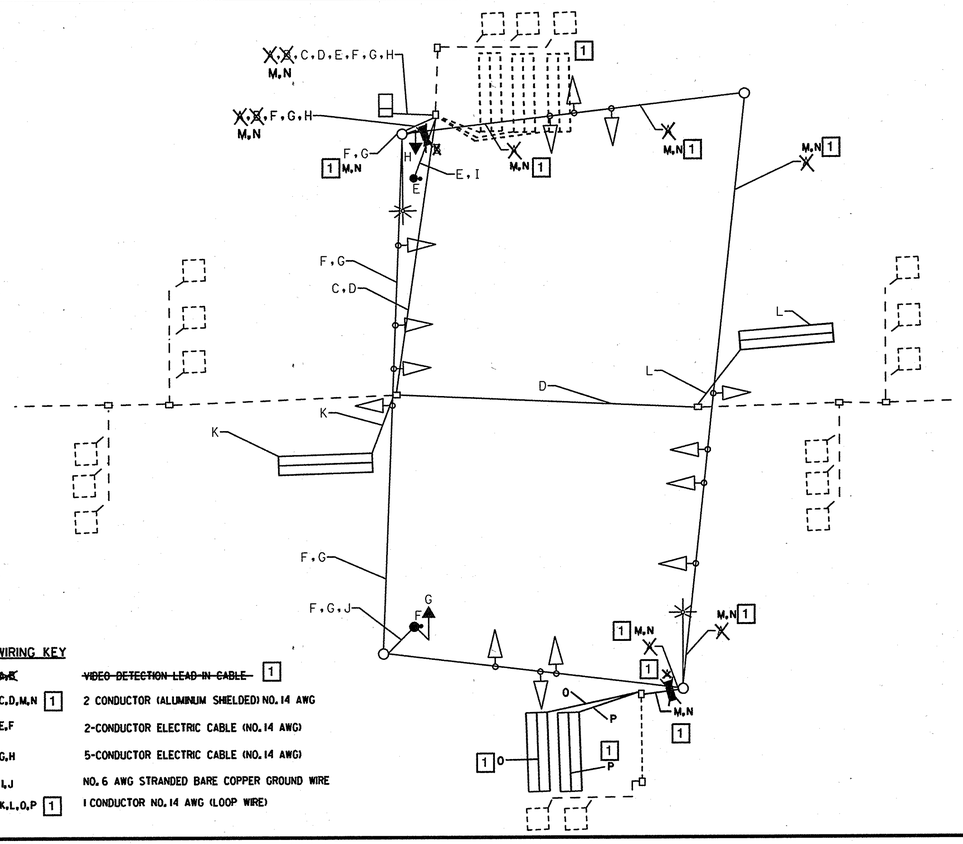
MR. MIKE STOCKER
SIGNAL SHOP WAREHOUSE
410-787-7696

SPECIAL NOTES:

APS FOR [MD 198 (LAUREL-FORT MEADE ROAD)] WILL FUNCTION AS FOLLOWS:

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSH BUTTON FOR AN EXTENDED TIME. THE PUSH BUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS LAUREL-FORT MEADE ROAD AT RED CLAY AND RUSSET GREEN WEST".

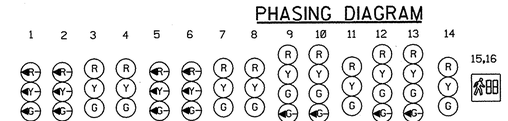
B. WHEN WALK PHASE BEGINS. THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.



WIRING KEY

~~J,K~~		~~VIDEO DETECTION LEAD-IN CABLE~~ 1
C,D,M,N	1	2 CONDUCTOR (ALUMINUM SHIELDED) NO. 14 AWG
E,F		2-CONDUCTOR ELECTRIC CABLE (NO. 14 AWG)
G,H		5-CONDUCTOR ELECTRIC CABLE (NO. 14 AWG)
I,J		NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
K,L,O,P	1	1 CONDUCTOR NO. 14 AWG (LOOP WIRE)

PHASING DIAGRAM



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15,16
PHASE 1 & 5	◄G–	◄G–	R	R	◄G–	◄G–	R	R	R	R	R	R	R	R	DW
PHASE 1 & 5 CHANGE	◄Y–	◄Y–	R	R	◄Y–	◄Y–	R	R	R	R	R	R	R	R	DW
PHASE 1 & 6	◄G–	◄G–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R	DW
PHASE 1 & 6 CHANGE	◄Y–	◄Y–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R	DW
PHASE 2 & 5	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	R	R	DW
PHASE 2 & 5 CHANGE	◄R–	◄R–	R	R	◄Y–	◄Y–	G	G	R	R	R	R	R	R	DW
PHASE 2 & 6	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R	DW
PHASE 2 & 6 CHANGE	◄R–	◄R–	Y	Y	◄R–	◄R–	Y	Y	R	R	R	R	R	R	DW
PHASE 3	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G ◄G–	G ◄G–	G	R	R	R	DW
PHASE 3 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	Y	Y	Y	R	R	R	DW
PHASE 4	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	G ◄G–	G ◄G–	G	DW
PHASE 4 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	Y	Y	Y	DW
PHASE 4 Alt.	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	G ◄G–	G ◄G–	G	WK
PED. CLEAR	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	G ◄G–	G ◄G–	G	FL/DW
PHASE 4 ALT. CHANGE	◄R–	◄R–	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK

NOTE: NO CHANGE TO EXISTING OPERATION

1 REVISION NO.1 - 07/ /2008
REMOVE VIDEO DETECTION, REPLACE LOOPS

REVISION C CONSULTANT

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

PLOTTED: $DATE$
FILE: $FILE$

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

MD 198 (LAUREL-FORT MEADE RD) AT RED CLAY RD/RUSSETT GREEN WEST
MARYLAND CITY, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE OCTOBER, 2007 CONTRACT NO. AX3745133

DESIGNED BY F.A.E. COUNTY ANNE ARUNDEL
DRAWN BY F.A.E. LOGMILE 02019801.45
CHECKED BY J.L.R. T.I.M.S. NO. I 719
F.A.P. NO. TOD NO. 2630C

DRAWING NO. SHEET NO. 2 OF 2