PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF BATTERY BACK-UP AT THE INTERSECTION OF MD 3 AND JOHNS HOPKINS ROAD /EVERGREEN ROAD IN ANNE ARUNDEL COUNTY.

MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE LEFT TURN PHASE FOR SOUTHBOUND MD 3, AND AN ALTERNATE PEDESTRIAN PHASE FOR CROSSING THE SOUTH SIDE OF MD 3. VIDEO DETECTION WILL BE USED.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. EDWARD RODENHIZER OF THE MSHA AT (410) 787-7652 48 HOURS IN ADVANCE FOR ACTIVATION. E

REFERENCE ONLY

APS NOTES

TO CROSS MD 3

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS MD 3 AT JOHN HOPKINS AND EVERGREEN ROAD, CROSSWALK ANGLES LEFT"

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

ITEM	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
8017	1 EA	FURNISH INTERSECTION POLICE CONTROL
8031	1 EA	F&I UNINTERUPTABLE POWER SUPPLY SYSTEM IN SIZE 5 CABINET
8043	20 LF	F&I UP TO 4" SCHEDULE 80 RIGID PVC CONDUIT
8047	110 LF	F&I No. 6 AWG STRANDED BARE CORPER GROUND WIRE
8050	130 LF	F&I ELECTRICAL CABLE No.8 AWG THHN/THWN
8061	25 LF	F&I ELECTRICAL CABLE 7-CONDUCTOR No. 14 AWG

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. MIKE HUBER
UTILITY ENGINEER
(410) 841-1005

MR. JOE GECKLE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7652

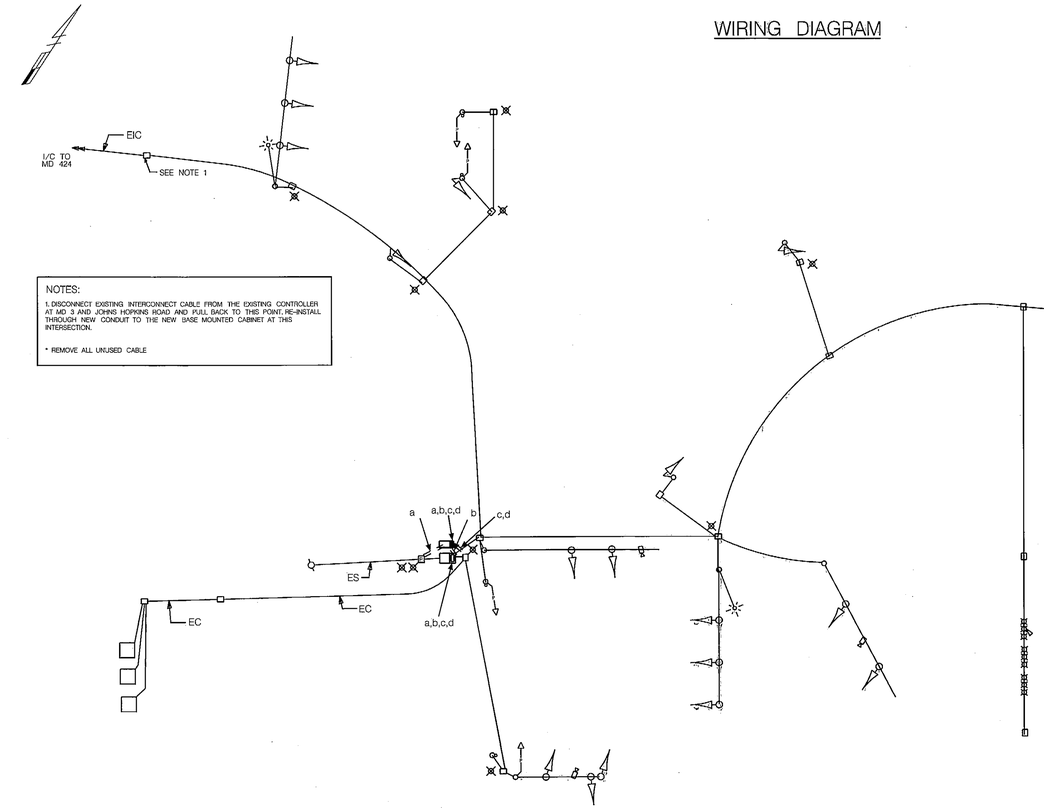
MR. EUGENE BAILEY
CHIEF - SIGN OPERATIONS SECTION
(410) 787-7676

MR. MIKE STOCKER
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17,18	19,20
PHASE 2 & 5	R	R	R	G	G	G	G	G	G	R	R	R	R	R	G	G	DW	DW
2 & 5 CHANGE	R	R	R	Y	Y	Y	Y	Y	Y	R	R	R	R	R	Y	Y	DW	DW
PHASE 2 & 6	G	G	G	R	R	R	G	G	G	R	R	R	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	R	R	R	Y	Y	Y	R	R	R	R	R	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G	WK	WK
PED CLEAR	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G	FL-DW	FL-DW
4 ALT. CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLR	FLR	FLR	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK

WIRING DIAGRAM



NOTES:

1. DISCONNECT EXISTING INTERCONNECT CABLE FROM THE EXISTING CONTROLLER AT MD 3 AND JOHNS HOPKINS ROAD AND PULL BACK TO THIS POINT. RE-INSTALL THROUGH NEW CONDUIT TO THE NEW BASE MOUNTED CABINET AT THIS INTERSECTION.

* REMOVE ALL UNUSED CABLE

WIRING KEY

A,D	1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)
B	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
PS	EXISTING ELECTRIC SERVICE
X	GROUND ROD
P	METER SERVICE PEDESTAL

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN

MD 3 AND JOHNS HOPKINS ROAD / EVERGREEN ROAD

SCALE	NONE	DATE	1/31/2013
CONTRACT NO.	XY1395185		
DESIGNED BY	FJA	COUNTY	ANNE ARUNDEL
DRAWN BY	FJA	LOGMILE	02000303.15
CHECKED BY		T.I.M.S. NO.	L477
F.A.P. NO.	N/A	TOD NO.	

DRAWING NO. TS-2150E/2151H

SHEET NO. 2 OF 2

DRILL HOLES

DRILL HOLES

DRILL HOLES