

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 2 AND ADMIRAL COCHRANE DRIVE IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE WIDENING OF ADMIRAL COCHRANE DRIVE AND WILL CONSIST OF DETECTOR, CONDUIT, HANDHOLE AND PEDESTRIAN EQUIPMENT REPLACEMENT. MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE MODE WITH AN EXCLUSIVE LEFT TURN PHASE FOR MD 2, SIDE STREET SPLIT PHASING AND A CONCURRENT PEDESTRIAN PHASE ACROSS ADMIRAL COCHRANE DRIVE. THE PEDESTRIAN PHASE WILL BE PROVIDED WITH APS EQUIPMENT.

APS NOTES

TO CROSS ADMIRAL COCHRANE DRIVE

WHEN PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE "WAIT TO CROSS ADMIRAL COCHRANE AT SOLOMONS ISLAND."

NOTE: WHEN THE WALK PHASE BEGINS, THE UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - TRAFFIC ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1003 (410) 841-1002

MR. JOE HORTY
UTILITY ENGINEER
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. MR. EUGENE BAILEY
CHIEF - TRAFFIC OPERATIONS CHIEF - SIGN OPERATIONS
(410) 787-7630 (410) 787-7676

MR. ROBERT SNYDER MS. DARLENE EIDE
ASSISTANT DIVISION CHIEF - SUPPLY OFFICE
TRAFFIC OPERATIONS SIGNAL SHOP WAREHOUSE
(410) 787-7631 (410) 787-7668

MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7662

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.

QUANTITY	DESCRIPTION
1 LS	MAINTENANCE OF TRAFFIC
3 CY	TEST PIT EXCAVATION
50 LF	24 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
2 EA	AUDIBLE /TACTILE PEDESTRIAN PUSHBUTTON
2 EA	BREAKAWAY PEDESTAL POLE - 5 FT.
1 LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
1 EA	VIDEO DETECTION CAMERA AND CABLE
3 EA	MICRO-LOOP PROBE SET WITH LEAD-IN CABLE
245 LF	3 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
25 SF	DETECTABLE WARNING SURFACE
2 EA	R10-3(1) (9" X 15") OPTION A SIGN
1 EA	R3-SR (30" X 36") - MAST ARM MOUNT
35 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
1 EA	ELECTRICAL HANDHOLE
2 EA	16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
165 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 14 AWG)
210 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 AWG)
1 EA	3/4 IN. X 10 FT. GROUND ROD
2 CY	CONCRETE FOUNDATION FOR PEDESTAL POLE
1 EA	2-WIRE CENTRAL CONTROL UNIT
2 EA	CUT, CLEAN, GALVANIZE AND CAP PEDESTAL POLE

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.

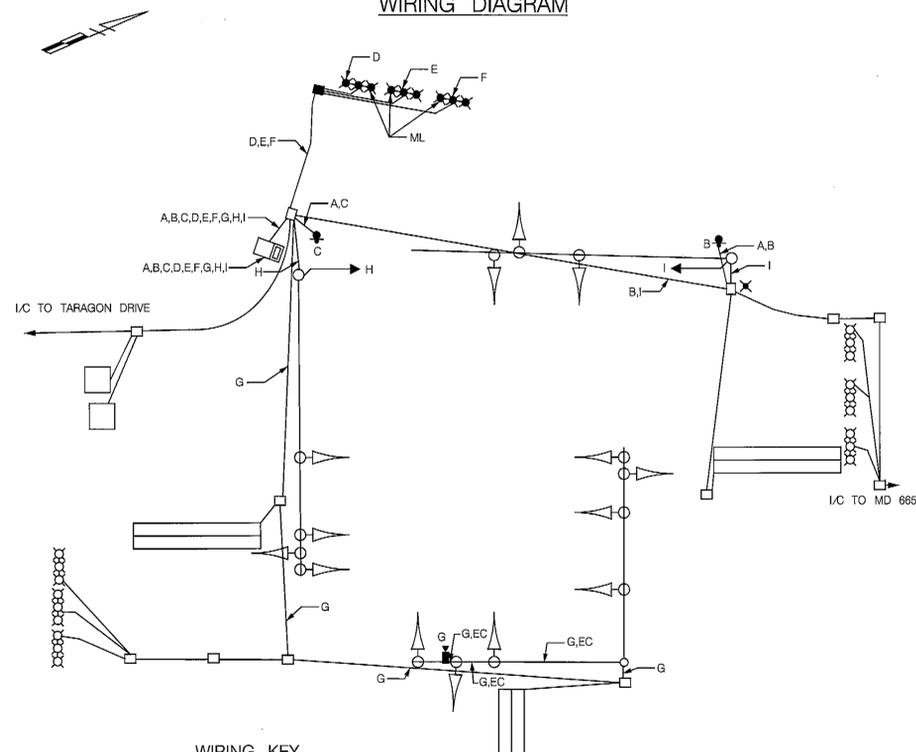
ITEM NO.	QUANTITY	DESCRIPTION
NONE		

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

PHASE CHART

PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
PHASE 1 & 5	←G	←G	R	R	←G	←G	R	R	R	R	R	R	R	R	R	DW
1 & 5 CHANGE	←G	←G	R	R	←G	←G	R	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	R	DW
1 & 6 CHANGE	←Y	←Y	G	G	←R	←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	R	WK
PED CLEAR	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R	R	FL-DW
2 & 5 CHANGE	←R	←R	R	R	←Y	←Y	G	G	R	R	R	R	R	R	R	DW
PHASE 2 & 6	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	R	WK
PED CLEAR	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	R	FL-DW
2 & 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R	R	DW
PHASE 3	←R	←R	R	R	←R	←R	R	R	R	R	R	R	R	R	R	DW
3 CHANGE	←R	←R	R	R	←R	←R	R	R	R	R	R	R	Y	Y	Y	DW
PHASE 4	←R	←R	R	R	←R	←R	R	R	R	R	R	R	R	R	R	DW
4 CHANGE	←R	←R	R	R	←R	←R	R	R	R	R	R	R	R	R	R	DW
FLASHING OPERATION	←FLR	←FLR	FLY	FLY	←FLR	←FLR	FLY	FLY	FLR	DARK						

WIRING DIAGRAM



WIRING KEY

- A STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- B,C 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D-F MICRO-LOOP PROBE LEAD-IN
- G VIDEO DETECTION CABLE
- H,I 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- M,L MICRO-LOOP PROBE
- X GROUND ROD

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

MD 2 AND ADMIRAL COCHRANE DRIVE / LAKE SHORE DRIVE

GENERAL INFORMATION PLAN

TRAFFIC CONCEPTS, INC.		SCALE NONE	DATE 6-9-09	CONTRACT NO. BW996182
325 Gambrills Road Suite B Gambrills, MD 21054 (410) 923-7101 FAX: (410) 923-6473 TRAFFIC@TRAFFIC-CONCEPTS.COM		DESIGNED BY J.K. SCHMID	COUNTY ANNE ARUNDEL	
		DRAWN BY J.K. SCHMID	LOGMILE 02000219.37	
		CHECKED BY T. ZAYDEL	T.I.M.S. NO.	
		F.A.P. NO. N/A	TOD NO.	
		DRAWING NO. 4016B	SHEET NO. 2 OF 3	