PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 648E (BALTIMORE ANNAPOLIS BOULEVARD) AND FERNDALE ROAD IN ANNE ARUNDEL COUNTY, MARYLAND. MODIFICATIONS INCLUDE THE INSTALLATION OF AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS FOR THE NORTH LEG OF MD 648E. MD 648E IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 648E APPROACHES OPERATING CONCURRENTLY AND THE FERNDALE APPROACH OPERATING INDIVIDUALLY. PROTECTED/PERMITTED LEFT-TURN PHASING IS PROVIDED FOR NORTHBOUND MD 648E. NEW AUDIBLE PUSHBUTTON ACTUATED PEDESTRIAN PHASES WILL BE PROVIDED ACROSS THE NORTH LEG OF MD 648E.

APS MESSAGE FOR CROSSING OF MD 648E (BALTIMORE ANNAPOLIS BOULEVARD):

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS BALTIMORE ANNAPOLIS AT FERNDALE, WAIT".

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

CONTROLLER REQUIREMENTS

THE EXISTING NEMA POLE MOUNTED CABINET AND EIGHT-PHASE CONTROLLER AND ALL ASSOCIATED EQUIPMENT WILL CONTINUE TO BE USED. A 2-WIRE CENTRAL CONTROL UNIT WILL BE ADDED TO THE CABINET.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9570	2	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
			- 2 EACH R10-3(1) (9"x15")
			- 4 EACH S1-1 (36"x36")
			- 2 EACH W16-7pL (24"x12")
			- 2 EACH W16-7pR (24"x12")

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013

MR. ED RODENHIZER
SUPERVISOR - SIGNAL SHOP
PHONE: (410) 787-7650

MR. MIKE HUBER
ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 841-1039

MR. ROBERT SNYDER
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "B"

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

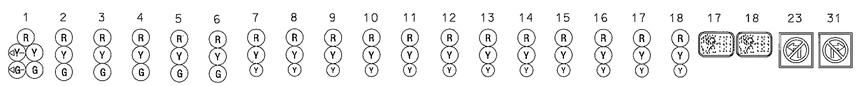
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
2002	1	CY	TEST PIT EXCAVATION
5005	400	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8001	2	EA	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8002	1	EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE - ANY SIZE
8004	1	EA	RELOCATE SIGNAL HEAD - ANY TYPE
8005	1	EA	REMOVE AND DISPOSE PER ASSIGNMENT
8008	25	LF	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8010	64	LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8012	25	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8015	46	SF	INSTALL GROUND MOUNTED SIGN
8020	300	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8021	200	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

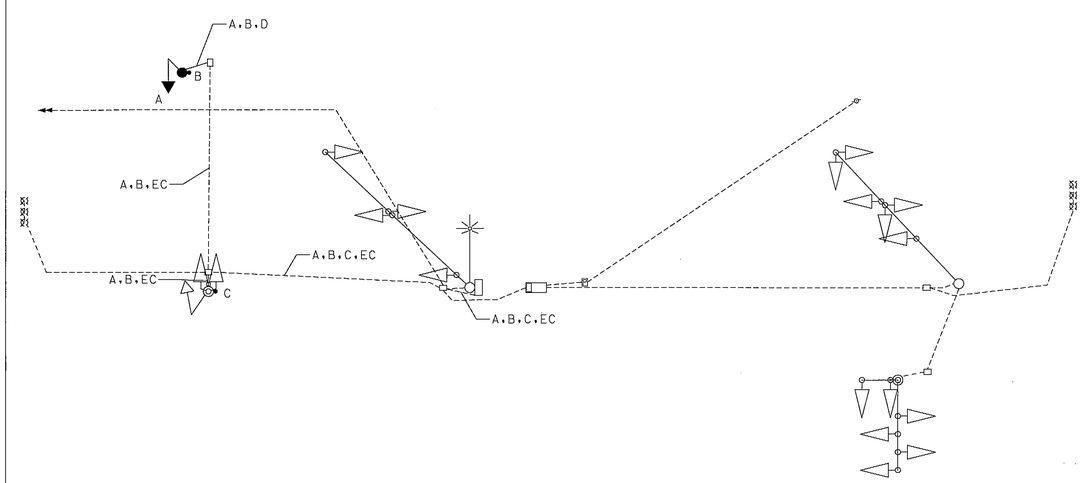
NONE.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	17	18	23	31
PHASE 1 + 6	G	G	R	R	R	R	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DW	DW	DARK	DARK
1 + 6 CHANGE	G	G	R	R	R	R	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DW	DW	DARK	DARK
PHASE 2 + 6	G	G	G	G	R	R	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DW	DW	DARK	DARK
2 + 6 CHANGE	Y	Y	Y	Y	R	R	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DW	DW	DARK	DARK
PHASE 4	R	R	R	R	G	G	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DW	DW	DARK	DARK
4 CHANGE	R	R	R	R	Y	Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DW	DW	DARK	DARK
PHASE 4 ALT	R	R	R	R	G	G	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	W	W	DARK	DARK
PED CLEARANCE	R	R	R	R	G	G	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/DW	FL/DW	DARK	DARK
4 ALT CHANGE	R	R	R	R	Y	Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DW	DW	DARK	DARK
FIREHOUSE PREEMPTION	G	G	R	R	R	R	R	R	R	R	R	R	R	R	FL/Y	FL/Y	FL/Y	FL/Y	DW	DW	DARK	DARK
FIREHOUSE CHANGE	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	FL/Y	FL/Y	FL/Y	FL/Y	DW	DW	DARK	DARK
LRT PREEMPTION	G	G	G	G	R	R	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	R	R	R	R	DW	DW	NO L	NO R
LRT PREEMPTION CHANGE	Y	Y	Y	Y	R	R	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	R	R	R	R	DW	DW	NO L	NO R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

B,C } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

D } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

EC } EXISTING CABLE

McCormick Taylor
Engineers & Planners Since 1946
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(410) 662-7400

BY: bshanover

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

MD 648E (BALTIMORE ANNAPOLIS BOULEVARD) AT FERNDALE ROAD
FERNDALE, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE OCTOBER 16, 2012 CONTRACT NO. AX6445378

DESIGNED BY NJM
DRAWN BY NJM
CHECKED BY BSH
F.A.P. NO. N/A
COUNTY ANNE ARUNDEL
LOGMILE 02064804.81
T.I.M.S. NO. L317
T.O.D. NO.

T.S. NO. 2575B-GI SG-02 OF SG-02 SHEET NO. 7 OF 7

PLOTTED: Tuesday, October 16, 2012 AT 11:20 AM
FILE: I:\5212 - tedd\28 - ada topa\design\engineering\planset\Submittal 8\MD 648 at Ferndale\pSG-N001_TS2575B.dgn