PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL LOCATED AT THE INTERSECTION OF MD 119 AND KENTLANDS BLVD./ORCHARD RIDGE DR. MD 119 (Great Senca Hwy.) IS ASSUMED TO RUN IN THE NORTH/SOUTH DIRECTION IN MONTGOMERY COUNTY.

THIS MODIFICATION INCLUDES THE FOLLOWING:
INSTALL AUDIBLE TACTILE PUSHBUTTON STATION,
PEDESTRIAN EDUCATION SIGNS, SIGNS, PEDESTAL POLE
AND COUNTDOWN PEDESTRIAN SIGNAL HEADS AT
THE INTERSECTION OF MD 119 AND KENTLANDS BLVD./ORCHARD RIDGE DR.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA SIX PHASE, FULLY ACTUATED MODE. THERE WILL BE EXCLUSIVE LEFT TURNS FOR BOTH NORTH AND SOUTHBOUND MD 119. THE THROUGH MOVEMENTS ALONG MD 119 OPERATE CONCURRENTLY. THE SIDE STREETS WILL OPERATE CONCURRENT WITH A RIGHT TURN OVERLAP FOR THE EAST TO SOUTH MOVEMENT ALONG KENTLAND BLVD. COUNTDOWN PEDESTRIAN SIGNAL PHASING WITH AN ALTERNATE AUDIBLE PEDESTRIAN MOVEMENT WILL BE ADDED FOR THE NORTH,EAST AND WEST LEGS OF THE INTERSECTION.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE STATE OF MARYLAND.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9571	29	SF	[UPDATED] SHEET ALUMINUM FOR POLE MOUNTED SIGN
	2	EA	W11-2 36" x 36"
	1	EA	W16-7p (R) 21" x 15"
	1	EA	W16-7p (L) 21" x 15"
	3	EA	PEDSETRIAN EDUCATION SIGN (NEW GREAT SENCA HWY.)
	2	EA	PEDSETRIAN EDUCATION SIGN (ORCHARD RIDGE DR.)
	2	EA	PEDSETRIAN EDUCATION SIGN KENTLANDS BLVD.)

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	4	CY	TEST PIT EXCAVATION
6001	20	LF	DEPRESSED CURB AND GUTTER
6002	90	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6003	64	SF	4 INCH CONCRETE SIDEWALK
8006	1	EA	2 WIRE CENTRAL CONTROL UNIT
8014	7	EA	AUDIBLE / TACTILE PEDESTRIAN SIGNS
8015	5	EA	BREAKAWAY PEDESTAL POLE - ANY SIZE
8024	8	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8028	1	EA	REMOVE AND DISPOSE OF EQUIPMENT PER ASSIGNMENT
8037	224	SF	DETECTABLE WARNING SURFACES
8040	5	CY	CONCRETE FOR SIGNAL FOUNDATION
8041	30	LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8043	200	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8049	120	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8051	35	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT
8063	29	SF	INSTALL GROUND MOUNTED SIGN
8076	2005	LF	ELECTRICAL CABLE - 2 CONDUCTOR NO. 14 AWG
8078	2005	LF	ELECTRICAL CABLE - 5 CONDUCTOR NO 14 AWG

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

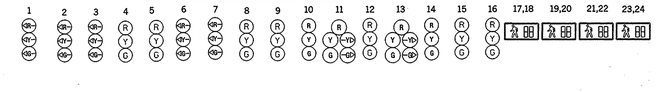
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
			NONE

PROJECT CONTACTS

The contact persons are as follows:

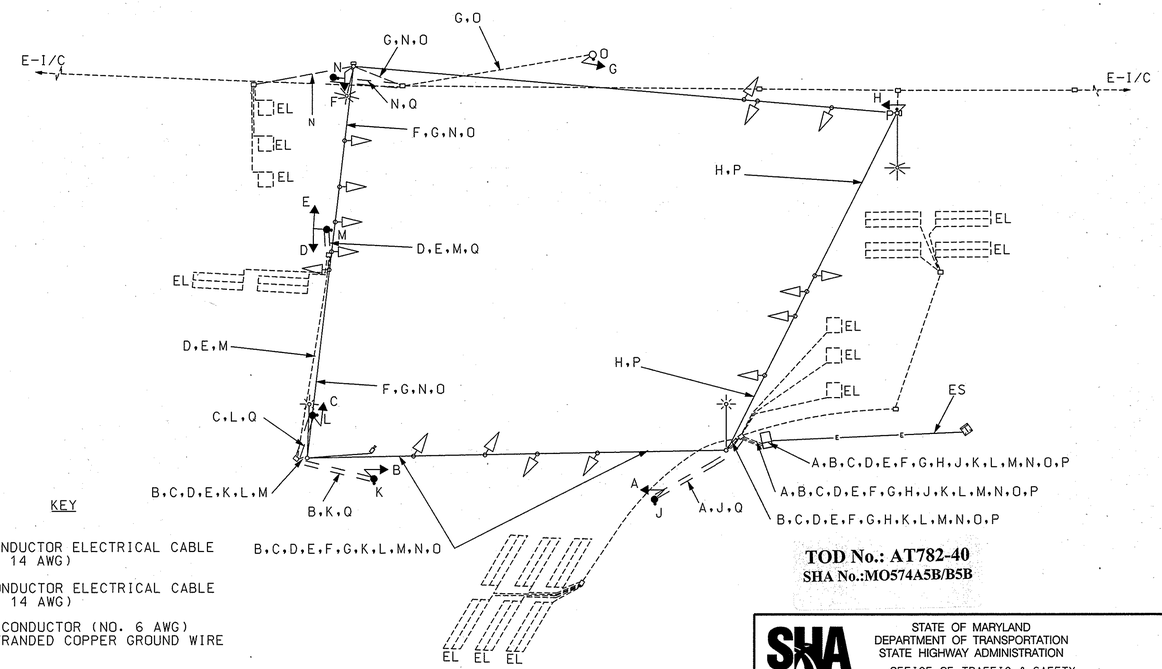
Mr. Jeff Wentz (MO)
Assistant District Engineer - Traffic
Phone: (301 513-7318
Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304
Mr. Augie Rebish
Utility Engineer
Phone: (301) 513-7350
Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630
Mr. Ed Rodenhizer
Supervisor, Signal Operations
Phone: 410-787-7650
Mr. Kamal Hamud
Montgomery County
Phone: 240-777-8795

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17,18	19,20	21,22	23,24
PHASE 1 AND 5	←G–	←G–	←G–	R	R	←G–	←G–	R	R	R	R –G↷	R	R –G↷	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE	←Y–	←Y–	←Y–	R	R	←G–	←G–	R	R	R	R –Y↷	R	R –Y↷	R	R	R	DW	DW	DW	DW
PHASE 1 AND 6	←R–	←R–	←R–	R	R	←G–	←G–	G	G	R	R	R	R	R	R	R	WK	DW	DW	DW
1 AND 6 CHANGE	←R–	←R–	←R–	R	R	←Y–	←Y–	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	←G–	←G–	←G–	G	G	←R–	←R–	R	R	R	R –G↷	R	R –G↷	R	R	R	DW	WK	DW	DW
2 AND 5 CHANGE	←Y–	←Y–	←Y–	Y	Y	←R–	←R–	R	R	R	R –Y↷	R	R –Y↷	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	←R–	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	R	R	R	WK	WK	DW	DW
PED COUNTDOWN CLEAR.	←R–	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 6 CHANGE	←R–	←R–	←R–	Y	Y	←R–	←R–	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 AND 8	←R–	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	G	G	G	DW	DW	DW	DW
4 AND 8 CHANGE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 ALT AND 8	←R–	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	G	G	G	DW	DW	WK	WK
PED COUNTDOWN CLEAR.	←R–	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	G	G	G	DW	DW	FL/DW	FL/DW
4 ALT AND 8 CHANGE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



TOD No.: AT782-40
SHA No.:MO574A5B/B5B

KEY

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

J – P } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

Q } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE

E-I/C EXISTING INTERCONNECT CABLE

EL EXISTING LOOP DETECTOR

ES EXISTING SERVICE

NOTE:
REMOVE EXISTING 3-CONDUCTOR WIRE FOR EXISTING PEDESTRIAN SIGNAL HEADS AND RECONNECT NEW 5-CONDUCTOR WIRE TO THE PROPOSED COUNTDOWN SIGNAL HEADS.

BAI
BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUMSEY ROAD SUITE 110
COLUMBIA, MARYLAND 21045

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

MD 119 AND KENTLANDS BLVD/ ORCHARD RIDGE DRIVE

GENERAL INFORMATION SHEET

SCALE NONE DATE 06/15/06 CONTRACT NO. AT7825185

DESIGNED BY M.A.M. COUNTY MONTGOMERY
DRAWN BY M.A.M. LOGMILE 15011902.45
CHECKED BY T.I.M.S. NO. H219C
F.A.P. NO. TOD NO.

DRAWING NO. 4212D - GI OF SHEET NO. 2 OF 2

PLOTTED: #DATETIME#
FILE: #FILE#

BY: $USERNAME$