PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES UPGRADING THE PEDESTRIAN TRAFFIC SIGNAL EQUIPMENT TO APS/CPS AND THE EXISTING TRAFFIC SIGNAL HEADS TO LED MODULES. AT THE INTERSECTION OF MD 450 AND BELAIR DR IN PRINCE PEORGE'S COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR BOTH APPROACHES OF MD 450. MD 450 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. BELAIR DR THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE WEST LEG OF THE INTERSECTION.

CONTACTS

The contact persons for this project are as follows:

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Supervisor, Sign Shop
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Mr. Mike Stocker
Supervisor, Signal Warehouse
Phone: 410-787-7668

EQUIPMENT LIST FOR CONTRACT NO. XX2245185

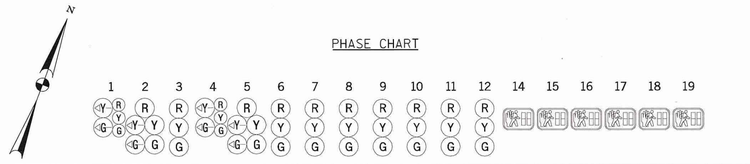
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9570	6	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
	6	EA	R10-3(1) (9" X 15") GROUND MOUNTED

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

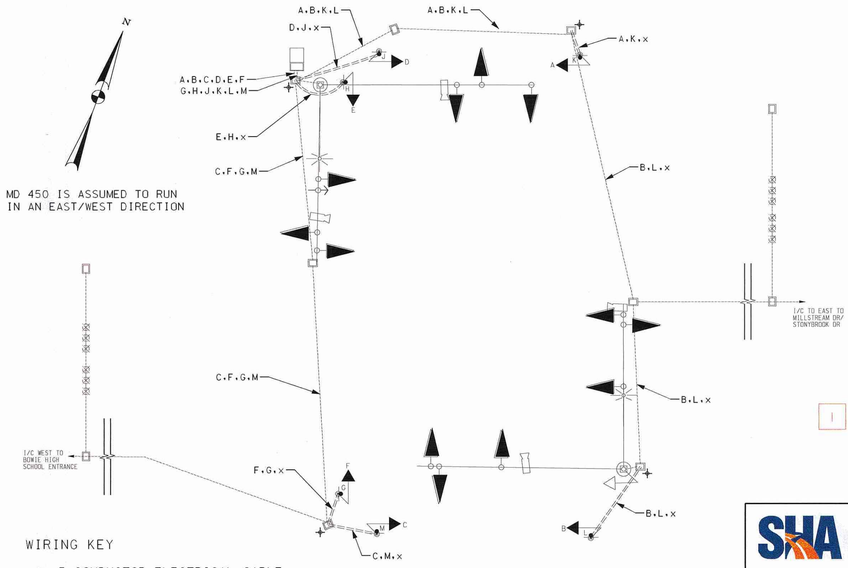
	ITEM	QUANTITY		UNIT	DESCRIPTION
	1003	1		EA	MAINTENANCE OF TRAFFIC
	2002	1		CY	TEST PIT EXCAVATION
	5003	775		LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
	5004	690		LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
	5005	60		LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
	6001	190 ~~155~~	1	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
	6002	950 ~~835~~	1	SF	5 INCH CONCRETE SIDEWALK
	6003	84 ~~74~~		SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
	8002	1		EA	2-WIRE CENTRAL CONTROL UNIT
	8008	6		EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
	8009	6 ~~4~~	1	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
	8014	44		EA	LED SIGNAL HEAD MODULES (ANY SIZE)
	8036	100		LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
	8038	6		SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
1	~~8039~~	~~550~~		~~SF~~	~~REMOVE-REINSTALL-DECORATIVE BRICK SIDEWALK~~
	8040	100		LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
	8051	745		LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
	8053	810		LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	17	18	19	
PHASE 1 AND 5	⟡G/R	⟡G/R	R	⟡G/R	⟡G/R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																			
PHASE 1 AND 6	⟡G/G	⟡G/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
1 AND 6 CHANGE	⟡Y/G	⟡Y/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE 2 AND 5	R	R	R	⟡G/G	⟡G/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
2 AND 5 CHANGE	R	R	R	⟡Y/G	⟡Y/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK	
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	

WIRING DIAGRAM



WIRING KEY

A.B.C.D.E.F } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

G.H.J.K.L.M } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

x } NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

+ GROUND ROD

NOTE:

1. ALL EXISTING WIRING WILL BE UTILIZED.
2. CONNECT COPPER GROUND WIRE TO NEAREST EXISTING GROUND ROD.

1 REDLINE REVISION NO. 1 DATED 12/3/10
TEDD APPROVAL 12/8/2010

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

MD 450 AT BELAIR DR ENTRANCE TO BOWIE HIGH SCHOOL
BOWIE, MD

GENERAL INFORMATION PLAN SHEET

SCALE NTS DATE 08/2010 CONTRACT NO. XX3545168R

DESIGNED BY XM
DRAWN BY XM
CHECKED BY JB
F.A.P. NO.

COUNTY PRINCE GEORGE'S
LOGMILE 16045012.36
TIMS NO. K253
TOD NO.

TS NO. 89D | DRAWING – OF | SHEET NO. 3 OF 3

PLOTTED: Monday, December 06, 2010 AT 12:18 PM
FILE: P:\09-002 TEDD\Task 34 MD 450 @ Belair Dr\Drawings\CADD\Redlines\pGG-P003_MD450@BelairDr.dgn

BY: john –