PROJECT DESCRIPTION

THIS PROJECT INVOLVES UPGRADING THE EXISTING PEDESTRIAN PUSHBUTTONS AND INDICATIONS TO APS AND CPS AT MD MD 4 @ MD 450 IN PRINCE GEORGE'S COUNTY, MARYLAND
MD 4 IS ASSUMED TO RUN IN A NORTH / SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES AS AN 8-PHASE FULLY ACTUATED SIGNAL. THE INTERSECTION OPERATION SHALL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

EXISTING NEMA SIZE 6 BASE MOUNTED CABINET SHALL BE UTILIZED. SHA SIGNAL SHOP TO PERFORM ALL INTERNAL CABINET WIRING.
THE CONTRACTOR IS TO CONTACT MR. ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

GENERAL NOTES

1. THE CONTRACTOR SHALL REMOVE ALL UNUSED CABLES IN CONDUIT.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL. CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
5. THE CONTRACTOR SHALL CONTACT MR. ED RODENHIZER AT 410-787-7650 72 HOURS PRIOR TO CONSTRUCTION.

PROJECT CONTACTS

MR. BRIAN YOUNG
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7404

MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. AUGRE REBISH
UTILITY ENGINEER - DISTRICT 3 UTILITIES
301-513-7350

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
410-787-7650

MR. EUGENE BAILEY
MANAGER, SIGN OPERATIONS SECTION
410-787-7670

MS. DARLENE EIDE
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION
9571	6 SF	SHEET ALUMINUM GROUND / POLE MOUNTED SIGN (4) 9 x 15 R10-3(1) PUSH BUTTON TO CROSS "PENNSYLVANIA AVE" (2) 9 x 15 R10-3(1) PUSH BUTTON TO CROSS "SILVER HILL RD"
	63 SF	SHEET ALUMINUM GROUND MOUNTED SIGN (10) 30 x 30 W11-2 "PEDESTRIAN CROSSING"
	5 SF	SHEET ALUMINUM GROUND MOUNTED SIGN (2) 15 x 21 M6-4 BLK/FLO. YELL "DOWN LEFT ARROW"
	5 SF	SHEET ALUMINUM GROUND MOUNTED SIGN (4) 15 x 21 M6-4 BLK/FLO. YELL DOWN RIGHT ARROW
	24 SF	SHEET ALUMINUM GROUND MOUNTED SIGN (4) 24 x 36 w13-4(1) BLK/FLO. YELL "ACROSS RAMP"

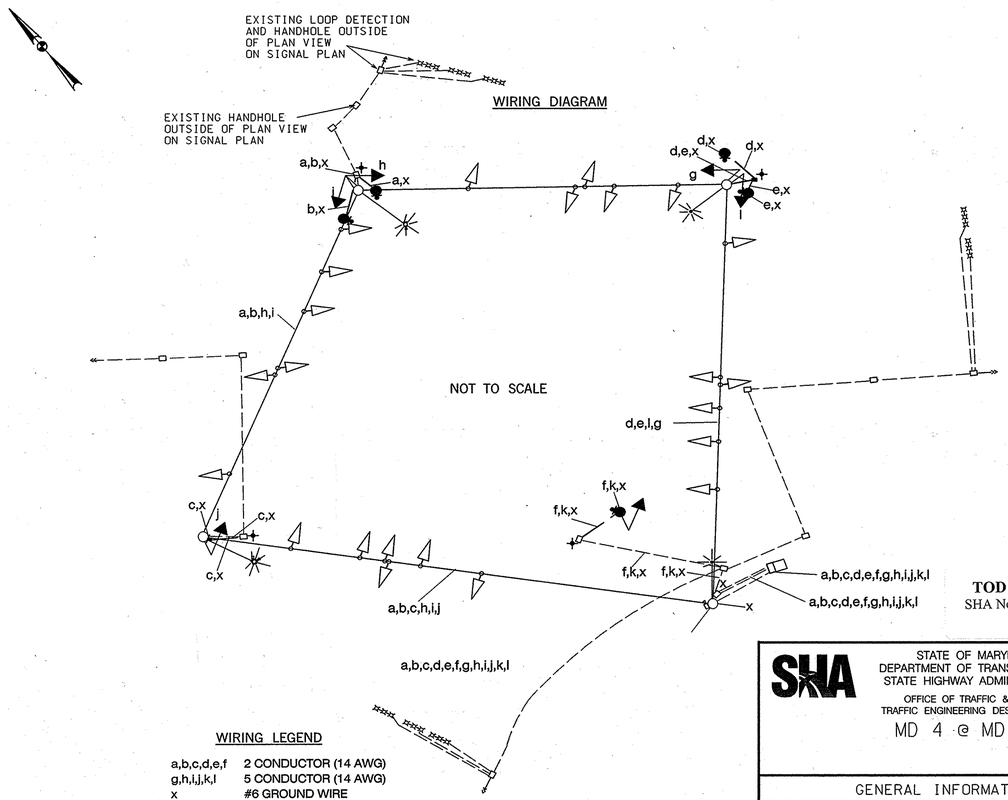
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	6 CY	TEST PIT EXCAVATION
5003	1200 LF	12" THERMOPLASTIC PAVEMENT MARKING
5004	200 LF	24" THERMOPLASTIC PAVEMENT MARKING
5005	1660 LF	PAVEMENT MARKING REMOVAL
6001	388 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN 8" DEPTH
6002	1250 SF	4" CONCRETE SIDEWALK
8003	1 EA	2 WIRE APS CONTROL UNIT
8010	6 EA	AUDIBLE / TACTILE PEDESTRAIN PUSHBUTTON
8011	4 EA	5' BREAKAWAY PEDESTAL POLE
8011	1 EA	10' BREAKAWAY PEDESTAL POLE
8014	6 EA	LED 16" COUNTDOWN PEDESTRAIN SIGNAL HEAD
8015	69 EA	LED SIGNAL HEAD MODULE
8017	1 EA	REMOVE AND DISPOSE OF EQUIPMENT
8019	1 EA	REMOVE FOUNDATION 12" DEPTH
8026	90 LF	3" SCHEDULE 80 CONDUIT - TRENCHED
8027	210 SF	DETECTABLE WARNING SURFACE
8030	3 CY	CONCRETE FOR SIGNAL FOUNDATION
8032	160 LF	WOOD SIGN POSTS 4 x 6
8033	100 LF	NO.6 AWG STRANDED BARE COPPER WIRE
8044	1 EA	INSTALL ELECTRICAL HANDHOLE
8045	102 SF	INSTALL GROUND MOUNTED SIGNS
8046	6 SF	INSTALL (6) R10-3(1) 9" x 15" SIGNS-POLE MOUNT
8052	4 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT
8058	1900 LF	2 CONDUCTOR 14 AWG ELECTRICAL CABLE
8060	2100 LF	5 CONDUCTOR 14 AWG ELECTRICAL CABLE

C. MATERIALS TO BE RETURNED TO SHA
NONE
ALL MATERIALS REMOVED SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.

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	25	26	27	28	29
	←R→ ←Y→ ←G→	R Y G	←R→ ←Y→ ←G→	←R→ ←Y→ ←G→	R Y G	R Y G	←R→ ←Y→ ←G→	R Y G	←R→ ←Y→ ←G→	←R→ ←Y→ ←G→	R Y G	R Y G	←R→ ←Y→ ←G→	R Y G	←R→ ←Y→ ←G→	R Y G	R Y G	←R→ ←Y→ ←G→	R Y G	←R→ ←Y→ ←G→	←R→ ←Y→ ←G→	R Y G	R Y G	WALK FLASHING DON'T WALK	WALK FLASHING DON'T WALK	WALK FLASHING DON'T WALK	WALK FLASHING DON'T WALK	WALK FLASHING DON'T WALK	WALK FLASHING DON'T WALK
PHASE 2+5	←R→	R	←R→	←R→	R	R	←G→	G	←G→	←G→	G	G	←R→	R	←R→	R	R	←R→	←R→	←R→	←R→	R	R	DW	DW	DW	DW	DW	DW
5 CHANGE	PHASE 2+5 MAY CHANGE TO PHASE 2+6 OR 1+6																												
PHASE 2+6	←R→	G	←R→	←R→	G	G	←R→	G	←R→	←R→	G	G	←R→	R	←R→	R	R	←R→	R	←R→	←R→	R	R	WK	WK	DW	DW	DW	DW
PED CLEAR	←R→	G	←R→	←R→	G	G	←R→	G	←R→	←R→	G	G	←R→	R	←R→	R	R	←R→	R	←R→	←R→	R	R	FL/DW	FL/DW	DW	DW	DW	DW
2+6 CHANGE	←R→	Y	←R→	←R→	Y	Y	←R→	Y	←R→	←R→	Y	Y	←R→	R	←R→	R	R	←R→	R	←R→	←R→	R	R	DW	DW	DW	DW	DW	DW
PHASE 1+6	←G→	G	←G→	←G→	G	G	←R→	R	←R→	←R→	R	R	←R→	R	←R→	R	R	←R→	R	←R→	←R→	R	R	WK	WK	DW	DW	DW	DW
PED CLEAR	←G→	G	←G→	←G→	G	G	←R→	R	←R→	←R→	R	R	←R→	R	←R→	R	R	←R→	R	←R→	←R→	R	R	FL/DW	FL/DW	DW	DW	DW	DW
1+6 CHANGE	←Y→	Y	←Y→	←Y→	Y	Y	←R→	R	←R→	←R→	R	R	←R→	R	←R→	R	R	←R→	R	←R→	←R→	R	R	DW	DW	DW	DW	DW	DW
PHASE 3+7	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←G→	R	←G→	R	R	←G→	R	←G→	←G→	R	R	DW	DW	DW	DW	DW	DW
3+8 CHANGE	PHASE 3+7 MAY BE CHANGED TO PHASE 3+8, 4+7 OR 4+8																												
PHASE 3+8	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←G→	G	←G→	G	G	←R→	R	←R→	←R→	R	R	DW	DW	DW	DW	DW	DW
3+7 CHANGE	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←Y→	Y	←Y→	Y	Y	←R→	R	←R→	←R→	R	R	DW	DW	DW	DW	DW	DW
PHASE 4+7	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←R→	R	←R→	R	R	←G→	G	←G→	←G→	G	G	DW	DW	DW	DW	DW	DW
PED CLEAR	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←R→	R	←R→	R	R	←G→	G	←G→	←G→	G	G	DW	DW	DW	DW	DW	DW
4+7 CHANGE	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←R→	R	←R→	R	R	←Y→	Y	←Y→	←Y→	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4+8	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←R→	G	←R→	G	G	←R→	G	←R→	←R→	G	G	DW	DW	DW	DW	DW	DW
4+8 CHANGE	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←R→	Y	←R→	Y	Y	←R→	Y	←R→	←R→	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4+8 ALT.	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←R→	G	←R→	G	G	←R→	G	←R→	←R→	G	G	DW	DW	W	W	W	W
PED CLEAR	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←R→	G	←R→	G	G	←R→	G	←R→	←R→	G	G	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4+8 CHANGE	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←R→	Y	←R→	Y	Y	←R→	Y	←R→	←R→	Y	Y	DW	DW	DW	DW	DW	DW
PREEMPT	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←G→	G	←G→	G	G	←R→	R	←R→	←R→	R	R	DW	DW	DW	DW	DW	DW
PREEMPT CHANGE	←R→	R	←R→	←R→	R	R	←R→	R	←R→	←R→	R	R	←Y→	Y	←Y→	Y	Y	←R→	R	←R→	←R→	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	←FL→ R	FL Y	←FL→ R	←FL→ R	FL Y	FL Y	←FL→ R	FL Y	←FL→ R	←FL→ R	FL Y	FL Y	←FL→ R	FL R	←FL→ R	FL R	FL R	←FL→ R	FL R	←FL→ R	←FL→ R	FL R	FL R	DARK	DARK	DARK	DARK	DARK	DARK



TOD No. AT925-35
SHA No. PG 587A58/C58

WIRING LEGEND

a,b,c,d,e,f	2 CONDUCTOR (14 AWG)
g,h,i,j,k,l	5 CONDUCTOR (14 AWG)
x	#6 GROUND WIRE
⏚	GROUND ROD

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 4 @ MD 458

GENERAL INFORMATION SHEET

SCALE ____ DATE MAY 2008 CONTRACT NO. AT9255185

DESIGNED BY E. RAUSER
DRAWN BY E. RAUSER
CHECKED BY J. BIDDLE
FAP NO. ____
COUNTY PRINCE GEORGE'S
LOGMILE 16000411.92
TIMS NO. I247
TOD NO. ____

TS NO. 837J-GI | DRAWING --- OF - | SHEET NO. 2 OF 3

BY: erauser

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