PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 118 (GERMANTOWN RD.) AND WISTERIA DRIVE IN MONTGOMERY COUNTY. MD 118 LEFT TURNS ARE CHANGING FROM E/P TO EXCLUSIVE. THE PEDESTRIAN PHASING SHALL BE ACTIVATED BY AN AUDIBLE / TACTILE PUSHBUTTON WITH COUNTDOWN PEDESTRIAN SIGNAL HEADS. THE STREET LIGHTING AND SHIELD ASSEMBLY SIGNS ARE EXISTING.

MD 118 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION WILL OPERATE IN AN EIGHT- PHASE,SEMI-TRAFFIC ACTUATED MODE. ALL THE LEFT TURN APPROACHES SHALL OPERATE AS EXCLUSIVE LEFT TURNS. MD 118 THROUGH MOVEMENTS OPERATING CONCURRENTLY AND WISTERIA DRIVE THROUGH MOVEMENTS OPERATING CONCURRENTLY. PRESENCE DETECTION IS PROVIDED WITH LOOP DETECTORS FOR MD 118 AND WITH CAMERAS FOR WISTERIA DRIVE. AUDIBLE /TACTILE PUSHBUTTON PEDESTRIAN MOVEMENTS ARE PROVIDED FOR ALL THE LEGS OF THE INTERSECTION.

III. SPECIAL NOTES:

THE CONTRACTOR SHALL CONTACT MR. KAMAL HAMUS AND KEITH LORD (PHONE NUMBERS LISTED BELOW) TO ARRANGE FOR THE DELIVERY OF THE CENTRAL CONTROL UNIT. THE CONTRACTOR SHALL PROVIDE AT LEAST SEVENTY- TWO (72) HOUR NOTICE IN ADVANCE OF DELIVERY.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9571	7.5 SF	SHEET ALUMINUM FOR POLE MOUNTING
	4 EA	R10-3(1) COUNTDOWN PEDESTRAIN PUSHBUTTON SIGN "TO CROSS GERMANTOWN ROAD" (9" X 15")
	4 EA	R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS WISTERIA DRIVE" (9" x 15")
9572	10 SF	SHEET ALUMINUM FOR SPAN WIRE MOUNTING
	2 EA	R10-10(L) "LEFT TURN ONLY" (24" x 30")

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. JEFFERY WENTZ
ASSISTANT DISTRICT ENGINEER
TRAFFIC - 301-513-7318

MR. KEVIN NOWAK
ASSISTANT DISTRICT ENGINEER
CONSTRUCTION - 301-513-7300

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

MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER
UTILITIES - 301-513-7350

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS DIVISION
410-787-7631

MR. ED RODENHIZER
TEAM LEADER - SIGNAL OPERATIONS
410-787-7652

KAMAL HAMUS
MONTGOMERY COUNTY TRAFFIC
MANAGEMENT CENTER
1-240-777-8761

KEITH LORD
TECHNICAL SUPERVISOR
1-301-279-1291

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	4 CY	TEST PIT EXCAVATION
6001	98 LF	STANDARD TYPE'A' COMBINATION CURB AND GUTTER (12" GUTTER PAN WITH 8" CURB)
6002	713 SF	4" CONCRETE SIDEWALK
8001	24 EA	12" LED R-Y-G SIGNAL HEAD SECTION
8003	1 EA	2 WIRE CENTRAL CONTROL UNIT
8010	8 EA	AUDIBLE /TACTILE PEDESTRIAN PUSHBUTTON
8011	8 EA	BREAKAWAY PEDESTAL POLE-ANY SIZE
8012	1 EA	CONDUIT BEND IN EXISTING BASE
8014	8 EA	LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD
8017	1 EA	REMOVE & DISPOSE OF EXISTING EQUIPMENT
8026	120 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" - TRENCHED
8027	64 LF	DETECTABLE WARNING SURFACES
8028	16 SF	RELOCATE EXISTING SIGN
8033	340 LF	NO.6 AWG STRANDED BARE COPER GROUND WIRE
8044	2 EA	ELECTRICAL HANDHOLE
8046	17.5 SF	INSTALL OVERHEAD MOUNTED SIGNS
8052	4 EA	GROUND ROD- 3/4" DIA. x 10' LENGTH
8056	8 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8058	2040 LF	ELECTRICAL CABLE - 2 CONDUCTOR NO.14 AWG
8060	1900 LF	ELECTRICAL CABLE - 5 CONDUCTOR NO.14 AWG

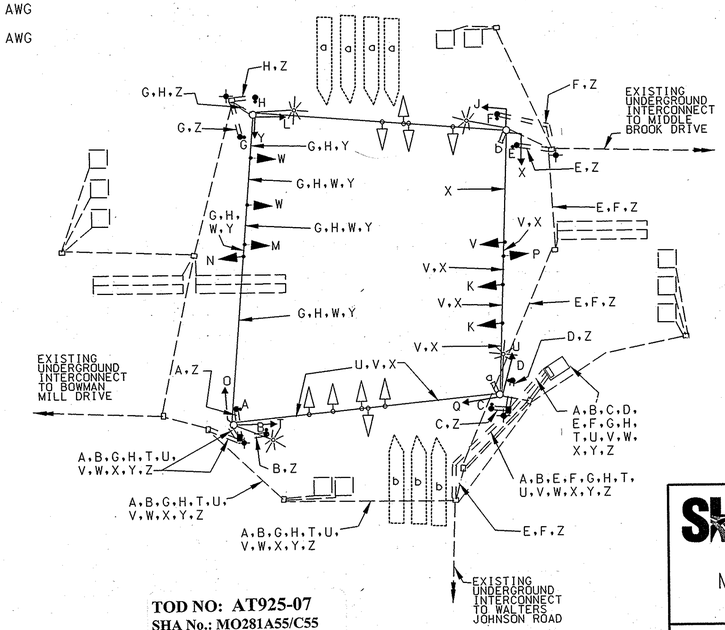
EQUIPMENT LIST "C"

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18-21	22-25
	◄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		
Phase 1 & 5	◄G-	◄G-	R	R	◄G-	◄G-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	DW	DW
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6																		
Phase 1 & 6	◄G-	◄G-	G	G	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	DW	DW
1 Change	◄Y-	◄Y-	G	G	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	DW	DW
Phase 2 & 5	◄R-	◄R-	R	R	◄G-	◄G-	G	G	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	DW	DW
5 Change	◄R-	◄R-	R	R	◄Y-	◄Y-	G	G	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	DW	DW
Phase 2 & 6	◄R-	◄R-	G	G	◄R-	◄R-	G	G	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	WK	DW
PED CLEARANCE	◄R-	◄R-	G	G	◄R-	◄R-	G	G	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	FL/DW	DW
2 & 6 Change	◄R-	◄R-	Y	Y	◄R-	◄R-	Y	Y	◄R-	◄R-	R	R	◄R-	◄R-	◄R-	R	R	DW	DW
Phase 3 & 7	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄G-	◄G-	R	R	◄G-	◄G-	◄G-	R	R	DW	DW
3 & 7 Change	THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8																		
Phase 3 & 8	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄G-	◄G-	G	G	◄R-	◄R-	◄R-	R	R	DW	DW
3 Change	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄Y-	◄Y-	Y	Y	◄R-	◄R-	◄R-	R	R	DW	DW
Phase 4 & 7	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄G-	◄G-	◄G-	G	G	DW	DW
7 Change	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄Y-	◄Y-	◄Y-	Y	Y	DW	DW
Phase 4 & 8	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	G	G	◄R-	◄R-	◄R-	G	G	DW	DW
4 & 8 Change	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	Y	Y	◄R-	◄R-	◄R-	Y	Y	DW	DW
Phase 4&8 Alt	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	G	G	◄R-	◄R-	◄R-	G	G	DW	WK
PED CLEARANCE	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	G	G	◄R-	◄R-	◄R-	G	G	DW	FL/DW
4&8 Alt Change	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄R-	◄R-	Y	Y	◄R-	◄R-	◄R-	Y	Y	DW	DW
Flashing Operation	FL/ RA	FL/ RA	FL/Y	FL/Y	FL/ RA	FL/ RA	FL/Y	FL/Y	FL/ RA	FL/ RA	FL/R	FL/R	FL/ RA	FL/ RA	FL/ RA	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

a,b - EXISTING VIDEO DETECTION CAMERA

A,B,C,D, E,F,G,H - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

J,K,L,M, N,O,P,Q - EXISTING ELECTRICAL CABLE (NO. 14 AWG)

T,U,V, W,X,Y - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

Z - NO.6 AWG STRANDED BARE COPPER GROUND WIRE

- 3/4 IN. x 10 FT. GROUND ROD

NOTE:

1. LETTERS J-Q ARE EXISTING CABLES AND SHALL BE WIRED TO PROPOSED HEADS, THEIR DIRECTION OF TRAVEL IS NOT REQUIRED.
2. REMAINING SIGNAL EQUIPMENT NOT IDENTIFIED WITH A LETTER ARE WIRED WITH EXISTING CABLES.
3. THE EXISTING EMPTY 2" CABINET BEND SHALL BE UTILIZIED FOR REVISION 'G' WIRING.

TOD NO: AT925-07
SHA No.: MO281A55/C55
MD 118 @ Wisteria Drive

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVISION 'G' 25003.51

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

MD 118 (GERMANTOWN ROAD) AND WISTERIA DRIVE

GENERAL INFORMATION SHEET

SCALE NONE DATE 2/2/2007 CONTRACT NO. AT9255185

DESIGNED BY E.M.MILESKY
DRAWN BY EMM
CHECKED BY TROY HOLLOWAY
FAP NO.

COUNTY MONTGOMERY
LOGMILE 15011805.32
TIMS NO. H849
TOD NO.

TS NO. 2002-G | DRAWING - OF | SHEET NO. 2 OF 2

PLOTTED: Friday, February 16, 2007 AT 09:50 AM
FILE: O:\TRANSDWG\25003\25003.51 MD 118 @ WISTERIA DRIVE\MSG-P002 MD118gl.dgn

BY: emilesky