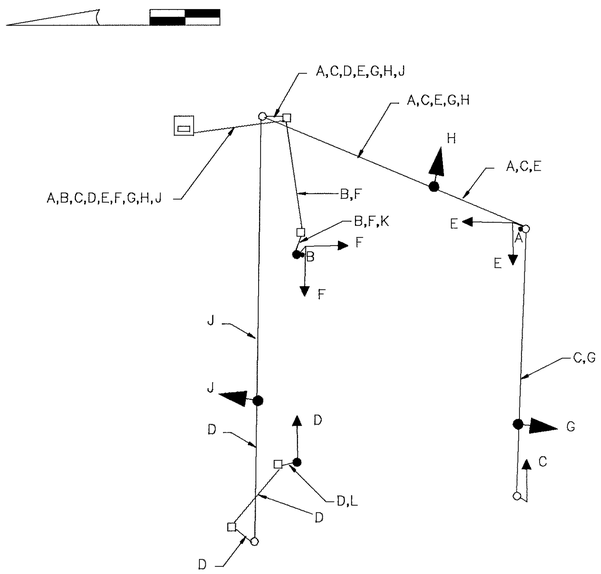
F H WA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.			

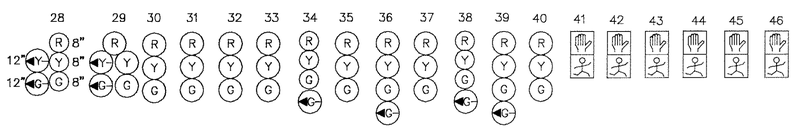
CONSTRUCTION DETAILS

1. INSTALL 8' BREAKAWAY PEDESTAL POLE AND BASE WITH PUSHBUTTON, SIGN AND PEDESTRAIN SIGNALS AS SHOWN. (NOTE: 1–2" SCHEDULE 40 P.V.C. CONDUIT BEND)
2. INSTALL PEDESTRAIN SIGNALS AND PUSHBUTTON AND SIGN ON EXISTING STRAIN POLE.
* 3. INSTALL PEDESTRAIN SIGNAL AND SIGN ON EXISTING STRAIN POLE.
* 4. INSTALL 8' BREAKAWAY PEDESTAL POLE AND BASE WITH PEDESTRAIN SIGNAL AND SIGN AS SHOWN. (NOTE: 1–2" SCHEDULE 40 P.V.C. CONDUIT BEND)
5. INSTALL 2" SCHEDULE 40 P.V.C. CONDUIT – TRENCHED
6. DEPRESS EXISTING CURB AND INSTALL SIDEWALK RAMP
7. INSTALL CROSSWALK.
8. INSTALL 8"/12" 1–WAY, 4–SECTION SIGNAL HEAD
9. INSTALL 8"/12" 1–WAY, 5–SECTION SIGNAL HEAD
10. REMOVE EXISTING SIGNAL HEAD
11. INSTALL 4" X 4" WOOD POST WITH PEDESTRAIN SIGNS AS SHOWN

* THESE SIGNS SHALL BE SUPPLIED BY MONTGOMERY COUNTY TRAFFIC DIVISION CONTACT MR. EMIL WOLANIN AT (301) 217–2200.



A to B – 2–conductor cable (No. 14 A.W.G.)
C to D – 3–conductor cable (No. 14 A.W.G.)
E to F – 5–conductor cable (No. 14 A.W.G.)
G to J – 7–conductor cable (No. 14 A.W.G.)
K to L – No. 6 stranded bare copper ground wire



	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
PHASE 2 & 5	◀G G	◀G G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	◀Y G	◀Y G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	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	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	◀G G	G	◀G G	G	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	◀G G	G	◀G G	G	R	R	R	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	◀G G	G	◀G G	G	R	R	R	DW	DW	DW	DW	FL/DW	FL/DW
3 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	◀G G	◀G G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	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	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

EQUIPMENT LIST

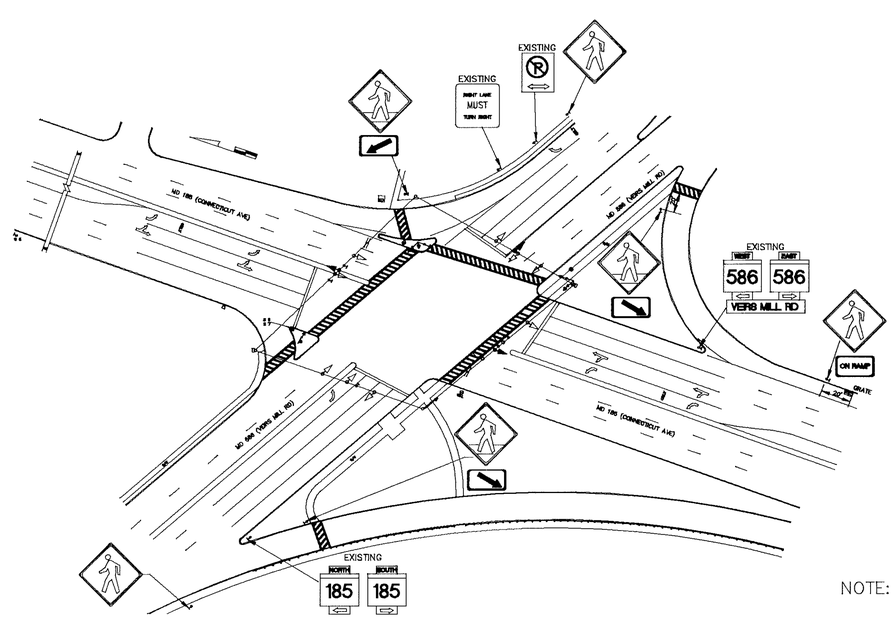
A. EQUIPMENT TO BE SUPPLIED BY SHA.

ITEM NO.	QUANTITY	DESCRIPTION
8016	2 EACH	PEDESTRAIN PUSHBUTTON AND R10–3C SIGN (SIGNS TO READ "PUSH BUTTON TO CROSS VEIRS MILL RD")
8011	1 EACH	12" 1–WAY, 2–SECTION PEDESTRAIN SIGNAL (PED POLE MOUNT) SIGNAL # 41
8011	1 EACH	12" 2–WAY, 2–SECTION PEDESTRAIN SIGNAL (PED POLE MOUNT) SIGNAL # 42 & 43
8011	1 EACH	12" 1–WAY, 2–SECTION PEDESTRAIN SIGNAL (SIDE OF POLE MOUNT) SIGNAL # 40
8011	1 EACH	12" 2–WAY, 2–SECTION PEDESTRAIN SIGNAL (SIDE OF POLE MOUNT) SIGNAL # 39 & 44
8011	2 EACH	8"/12" 1–WAY, 4–SECTION (R,Y,G, 12" G ARROW) ADJUSTABLE SIGNAL HEAD WITH PROPER SPAN WIRE HANGERS, BALANCE ADJUSTERS AND TUNNEL VISORS (SIGNAL # 34)
8011	1 EACH	8"/12" 1–WAY, 5–SECTION (R,Y,G,12" Y ARROW, 12" G ARROW) ADJUSTABLE SIGNAL HEAD WITH PROPER SPAN WIRE HANGERS, BALANCE ADJUSTERS AND TUNNEL VISORS (SIGNAL # 28)
8056	36 SF	W11–2 SIGN 30" X 30" GROUND MOUNT (SIGNS # S 5)
8056	36 SF	W11–2a SIGN 30" X 30" GROUND MOUNT (SIGNS # S 6)
8056	7 SF	M6–2 SIGN (RIGHT ARROW) 21" X 15" GROUND MOUNT (SIGNS # S 7)
8056	2 SF	M6–2 SIGN (LEFT ARROW) 21" X 15" GROUND MOUNT (SIGNS # S 8)
8056	2 SF	SUPPLEMENTAL SIGN "ON RAMP" 21" X 15" GROUND MOUNT (SIGN # S 9)

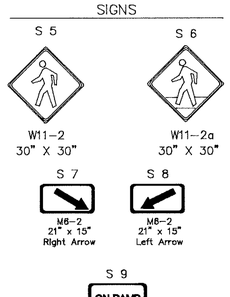
EQUIPMENT LIST

B. EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2005	1 CY	REMOVAL OF SIDEWALK
2006	120 LF	REMOVAL OF CURB AND GUTTER
5003	1135 LF	12" WHITE PERMANATE PREFORMED PAVEMENT MARKING TAPE
5005	182 LF	24" WHITE PERMANATE PREFORMED PAVEMENT MARKING TAPE
5008	50 LF	REMOVE EXISTING PAVEMENT MARKING
6001	5 SF	4" CONCRETE SIDEWALK
6002	120 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER – 12" GUTTER PAN, 8" DEPTH (HANDICAP RAMP)
8001	1 CY	CONCRETE FOR SIGNAL FOUNDATION
8003	2 EACH	8' BREAKAWAY PEDESTAL POLE
8011	6 EACH	INSTALL SIGNAL HEAD (ANY TYPE)
8016	2 EACH	INSTALL PEDESTRAIN PUSHBUTTON WITH SIGN
8045	540 LF	F & I 2–CONDUCTOR CABLE (NO. 14 A.W.G.)
8046	756 LF	F & I 3–CONDUCTOR CABLE (NO. 14 A.W.G.)
8047	302 LF	F & I 5–CONDUCTOR CABLE (NO. 14 A.W.G.)
8048	671 LF	F & I 7–CONDUCTOR CABLE (NO. 14 A,W,G,)
8052	20 LF	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8055	128 LF	F & I 4" X 4" WOOD SIGN SUPPORTS
8056	83 LF	GROUND MOUNTED SIGNS
8058	2 EACH	INSTALL BREAKAWAY BASE SUPPORT SYSTEM FOR SIGNAL STRUCTURE
8064	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT



SIGNS



REVISION "A"

NOTE:

1. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE UTILIZED.
2. ALL EXISTING STOP LINES SHALL BE REPLACED.
3. ALL W11–2 SIGNS SHALL BE INSTALLED 250' IN ADVANCE OF THE CROSSWALKS.

REVISIONS	APPROVALS
	CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

DRAWN BY: BRUCE THOMPSON
DES. BY:
CHK. BY:
DATE:
SCALE:

MD 185 and MD 586

COUNTY: MONTGOMERY

F.A.P. NO. STP-335(040)(19)
S.H.A. NO.S.: AW102A52 AW102B52

TS/STD. NO. 2076 A1

SHEET NO. ___ OF ___