FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.	SEE TITLE SHEET		

Intersection Operation

The existing cabinet and controller are to be utilized. The phasing is to be modified to include concurrent pedestrian phases across the east and west legs of the intersection to operate with the MD 355 through movements. There will also be an actuated pedestrian movement across the north leg of the intersection.

Construction Details

A. Use existing handhole.

B. Install 1 in. liquid tight, non–metallic conduit for loop detector sleeve.

C. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (2–4–2 turns).

D. Install 6 ft. x 6 ft. vehicle loop detector (3 turns).

E. Use existing conduit.

F. Use existing strain pole. Install pedestrian signal head and pedestrian sign.

G. Use existing strain pole. Install pedestrian signal heads, pedestrian pushbutton, and pedestrian signs.

H. Use existing span wire. Install signs as shown.

J. Use existing span wire, relocate existing signal heads. Install signs as shown.

K. Install 12 in. preformed white pavement marking for pedestrian crossing.

L. Install 24 in. preformed white pavement marking for stop line.

M. Existing cabinet/controller to be utilized.

Equipment List "A"

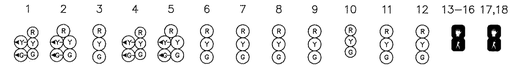
Equipment to be supplied by the SHA.

Quantity	Unit	Description
2	EA	12 in., two–way, two section (Symbolic WK, DW) adjustable pedestrian signal head – pole mount.
2	EA	12 in., one–way, two section (Symbolic WK, DW) adjustable pedestrian signal head – pole mount.
2	EA	Pedestrian pushbutton assembly.
79.2	SF	Sheet aluminum signing [To consist of six 9 in. x 12 in. R10–3C signs for pole mounting, four 16 in. x Var. D3–2 and two 16 in. x Var. (Dual Faced) D3–2 signs for span wire mounting.]

Equipment List "B"

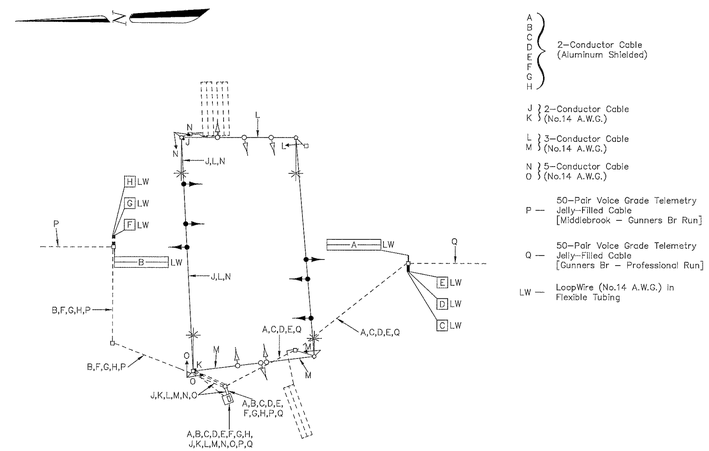
Equipment to be furnished and/or installed by the Contractor.

Quantity	Unit	Description
800	LF	12 in. preformed white pavement marking for pedestrian crossing.
100	LF	24 in. preformed white pavement marking for stop line.
500	LF	Sawcut for signal loop detector.
1400	LF	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
50	LF	1 in. liquid tight, flexible, non–metallic conduit for loop detector sleeve.
1200	LF	2–conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
4	EA	Relocate existing traffic signal head – span wire mount.
74.7	SF	Install sheet aluminum signing – overhead mount.
4.5	SF	Install sheet aluminum signing – pole mount.
6	EA	Install pedestrian signal head – pole mount.
2	EA	Install pedestrian pushbutton.
275	LF	2–conductor electrical cable (No. 14 A.W.G.).
475	LF	3–conductor electrical cable (No. 14 A.W.G.).
300	LF	5–conductor electrical cable (No. 14 A.W.G.)



	1	2	3	4	5	6	7	8	9	10	11	12	13–16	17,18
Phase 1 & 5	R ←G—	R ←G—	R	R ←G—	R ←G—	R	R	R	R	R	R	R	DW	DW
1 & 5 Change To Phase 1 & 6 or Phase 2 & 5														
Phase 1 & 6	G ←G—	G ←G—	G	R	R	R	R	R	R	R	R	R	DW	DW
1 Change	G ←Y—	G ←Y—	G	R	R	R	R	R	R	R	R	R	DW	DW
Phase 2 & 5	R	R	R	G ←G—	G ←G—	G	R	R	R	R	R	R	DW	DW
5 Change	R	R	R	G ←Y—	G ←Y—	G	R	R	R	R	R	R	DW	DW
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	DW
Ped Clearance	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	DW
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
Phase 4 & Alt. 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	WK
Ped Clearance	R	R	R	R	R	R	G	G	G	G	G	G	DW	FL/DW
4 & Alt. 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	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

Phase Chart



Wiring Diagram

Ultimate Traffic Control Signal

Revision 'A'

A/E GROUP, INC.
CONSULTING ENGINEERS • PLANNERS
11409 CRONHILL DRIVE
OWINGS MILLS, MD. 21117
(410) 363–1908
A/E JOB NO: 94–264

REVISIONS	APPROVALS
	CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
A November 6, 1995 Rebuild to new geometrics. S.H.A. No.: M 611–501–371	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION SIGNAL # 15035517.95

DRAWN BY: N/A
DES. BY: S. Renzi
CHK. BY: N/A

MD 355 at Gunners Branch Rd/ Fox Chapel S.C.

COUNTY: MONTGOMERY

DATE: N/A F.A.P. NO. N/A
SCALE: N/A S.H.A. NO. N/A

TS/STD. NO. **3395A-GI**

SHEET NO. ____ OF ____