

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the traffic signal controller location at the intersection of Wisconsin Avenue (MD 355) and South Park Avenue. This relocation is in conjunction with streetscaping improvements in the vicinity.

II. INTERSECTION OPERATION

The existing intersection operation will remain. The intersection currently operates with exclusive only left turns on Wisconsin Avenue, and split phasing on South Park Avenue.

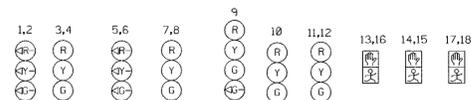
III. CONTROLLER REQUIREMENTS

The controller assembly will be an eight phase fully actuated NEMA controller complete with system package and miscellaneous auxiliary equipment as required to maintain the existing operation. A NEMA 6" base mounted cabinet is to be used.

IV. SPECIAL NOTES

1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00-13, 104.00-19, 104.00-21-104.00-24, 104.17-01, 104.17-02, 104.39-02, 104.41-02, 104.48-01, 104.48-02, 104.49-01, 104.49-02, 104.81-01, 104.81-02.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING ALL CABLE TO THE CABINET AND SHALL PROPERLY LABEL EACH CABLE.
3. 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.
4. ALL DISCONNECTING AND CONNECTING OF TRAFFIC SIGNAL INTERCONNECT CABLE SHALL BE THE RESPONSIBILITY OF THE MONTGOMERY COUNTY DPW&T. CONTACT MR. ROBERT GONZALES AT (240) 777-8761 AT LEAST 72 HOURS PRIOR TO INITIATING ANY CONSTRUCTION WORK

PHASE CHART AND PHASING DIAGRAM (TO REMAIN)



Phase 2 & 5	←R-	G	←R-	G	R	R	R	W	W	DW
Ped Clear	←R-	G	←R-	G	R	R	R	W	FL/DW	DW
Phase 5 Change	←R-	Y	←R-	G	R	R	R	W	DW	DW
Phase 2 & 6	←R-	R	←G-	G	R	R	R	W	DW	DW
Ped Clear	←R-	R	←G-	G	R	R	R	FL/DW	DW	DW
2 & 6 Change	←R-	R	←Y-	Y	R	R	R	DW	DW	DW
Phase 3 & 8 Ped	←R-	R	←R-	R	←G-	G	R	DW	DW	W
Phase 3 Change	←R-	R	←R-	R	Y	Y	R	DW	DW	W
Phase 4 & 8 Ped	←R-	R	←R-	R	R	R	G	DW	DW	W
8 Ped Clear	←R-	R	←R-	R	R	R	G	DW	DW	FL/DW
Phase 4 Change	←R-	R	←R-	R	R	R	Y	DW	DW	DW
Phase 1 & 5	←G-	G	←R-	R	R	R	R	DW	W	DW
Phase 1 Change	←Y-	G	←R-	R	R	R	R	DW	W	DW
Flashing Operation	FL/R	FL/Y	FL/R	FL/Y	FL/R	FL/R	FL/R	Dark	Dark	Dark

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE STATE HIGHWAY ADMINISTRATION

QUANTITY	UNITS	SPEC SECTION	DESCRIPTION
	NONE		

EQUIPMENT LIST "B"

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

QUANTITY	UNITS	SPEC SECTION	DESCRIPTION
1	LS	104	Maintenance of Traffic
1	LS	108	Mobilization
1	CY	205	Test pit excavation
3	CY	801	Concrete for controller foundation
400	LF	802	No. 6 AWG stranded bare copper ground wire
60	LF	805	4" schedule 80, PVC conduit (trenched)
100	LF	805	3" schedule 80, PVC conduit (trenched)
250	LF	805	4" schedule 80, PVC conduit (slotted)
500	LF	810	12-Pair communication cable, jellyfilled
2000	LF	810	Electrical cable - 5 conductor (No. 14 AWG)
1300	LF	810	Electrical cable - 7 conductor (No. 14 AWG)
40	LF	810	Electrical cable - 1 conductor (No. 4 AWG)
1	EA	811	Electrical handhole
1	EA	816	Eight phase controller and cabinet (base mount) Controller to include electrical service equipment and all required hardware and conform to Montgomery County Specifications.

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION. 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY	UNITS	SPEC SECTION	DESCRIPTION
1	EA	816	Controller and cabinet (base mount)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Design Division
Phone # (410) 787-7630

Dr. Wilhelm DerMinassian
Engineer III (Montgomery County)
Phone # (240) 777-8795

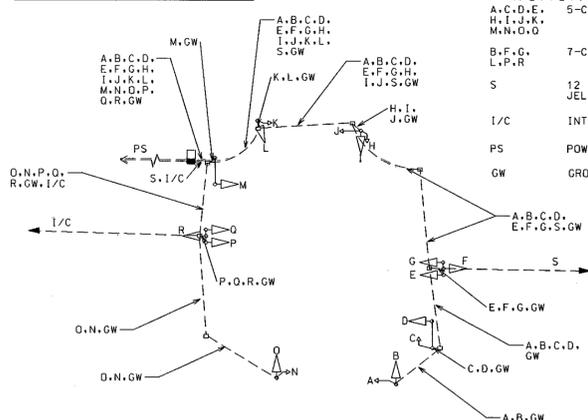
Mr. Wayne Mowdy
Asst. District Engineer - Maintenance
Phone # (301) 513-7304

Mr. Augustine Rebish
Asst. District Engineer - Utility
Phone # (301) 513-7350

Mr. Lee Starkloff
Asst. District Engineer - Traffic
Phone # (301) 513-7358

Mr. Ed Rodenhizer
Signal Shop Supervisor
Phone # (410) 787-7652

WIRING DIAGRAM



WIRING LEGEND

- A, C, D, E, H, I, J, K, M, N, O, Q
- 5-COND. ELECTRICAL CABLE (#14 AWG)
- B, F, G, L, P, R
- 7-COND. ELECTRICAL CABLE (#14 AWG)
- S
- 12 PAIR INTERCONNECT CABLE, JELLY FILLED (#19 AWG)
- I/C
- INTERCONNECT CABLE (EXISTING)
- PS
- POWER SOURCE
- GW
- GROUND WIRE

WELLS & ASSOCIATES, LLC

TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS
1420 Spring Hill Road
McLean, VA 22102
Phone: (703) 917-6620 Fax: (703) 917-0739
5 Wirt Street
Leesburg, VA 20175
Phone: (703) 443-1442 Fax: (703) 443-1225

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL MODIFICATION PLAN
WISCONSIN AVE. (MD 355) & SOUTH PARK AVE.

DRAWN BY: WTB	F.A.P. NO. N/A	TS NO. 2688 B - G1	SHEET NO.
CHECKED BY: CT	S.H.A. NO. N/A	T.I.M.S. NO. 6356	2 OF 2
SCALE: 1" = 20'	COUNTY: MONTGOMERY	LOG MILE: 15035500.20	
DATE: 01/26/05			