

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the traffic signal controller location at the intersection of Wisconsin Avenue (MD 355) and Wisconsin Circle. 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 Wisconsin Circle.

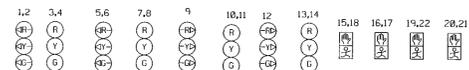
III. CONTROLLER REQUIREMENTS

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

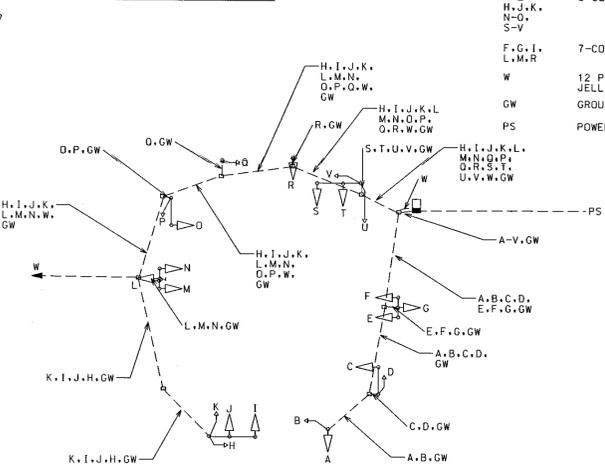
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00-13, 104.00-19, 104.00-21, 104.00-24, 104.17-01, 104.17-02, 104.39-02, 104.41-02, 104.48-01, 104.48-02, 104.49-01, 104.49-02, 104.81-01, 104.81-02.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING ALL CABLE TO THE CABINET AND SHALL PROPERLY LABEL EACH CABLE.
- 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.
- ALL DISCONNECTING AND CONNECTING OF TRAFFIC SIGNAL INTERCONNECT CABLE SHALL BE THE RESPONSIBILITY OF THE MONTGOMERY COUNTY DP&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 1 & 5	←R-	R	←G-	G	→G-	R	→G-	R	W	DW	DW	DW
1&5 Change	←R-	R	←Y-	G	→Y-	R	→Y-	R	W	DW	DW	DW
Phase 2 & 6	←R-	G	←R-	G	→R-	R	→R-	R	W	W	DW	DW
Pad Clear	←R-	G	←R-	G	→R-	R	→R-	R	FL/DW	W	DW	DW
2 & 6 Change	←R-	G	←R-	Y	→R-	R	→R-	R	FL/DW	W	DW	DW
Phase 2 & 6	←G-	G	←R-	R	→R-	R	→R-	R	DW	W	DW	DW
Pad Clear	←G-	G	←R-	R	→R-	R	→R-	R	DW	FL/DW	DW	DW
2 & 6 Change	←Y-	Y	←R-	R	→R-	R	→R-	R	DW	DW	DW	DW
Phase 4 & 8	←R-	R	←R-	R	→G-	G	→G-	G	DW	DW	W	W
Pad Clear	←R-	R	←R-	R	→G-	G	→G-	G	DW	DW	FL/DW	FL/DW
4 & 8 Change	←R-	R	←R-	R	→Y-	Y	→Y-	Y	DW	DW	DW	DW
Flashing Operation	FL/R	FL/Y	FL/R	FL/Y	FL/R	FL/R	FL/R	FL/R	Dark	Dark	Dark	Dark

WIRING DIAGRAM



WIRING LEGEND

- A-E, H-J, K, N-O, S-V: 5-COND. ELECTRICAL CABLE (#14 AWG)
- F, G, I, L, M, R: 7-COND. ELECTRICAL CABLE (#14 AWG)
- W: 12 PAIR INTERCONNECT CABLE, JELLY FILLED (#19 AWG)
- GW: GROUND WIRE
- PS: POWER SOURCE

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
100	LF	805	4" schedule 80, PVC conduit (trenched)
75	LF	805	3" schedule 80, PVC conduit (trenched)
350	LF	805	4" schedule 80, PVC conduit (slotted)
600	LF	810	12-Pair communication cable, jellyfilled
3000	LF	810	Electrical cable - 5 conductor (No. 14 AWG)
100	LF	810	Electrical cable - 1 conductor (No. 4 AWG)
1200	LF	810	Electrical cable - 7 conductor (No. 4 AWG)
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

WELLS & ASSOCIATES, LLC

TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL MODIFICATION PLAN
WISCONSIN AVE. (MD 355) & WISCONSIN CIR./WILLARD AVE.

DRAWN BY: WTB	F.A.P. NO. N/A	TS NO. 4348 A - GI	SHEET NO.
CHECKED BY: CT	S.H.A. NO. N/A	T.I.M.S. NO. G356	2 OF 2
SCALE: 1" = 20'	COUNTY: MONTGOMERY	LOG MILE: 15035500.06	
DATE: 01/26/05			