

**PROJECT DESCRIPTION**

**I. GENERAL**

THE WORK TO BE PERFORMED INVOLVES THE CONSTRUCTION OF A NEW TRAFFIC SIGNAL AT MD 2 AND RAMP "A" SPUR IN ANNE ARUNDEL COUNTY, MARYLAND. IT IS ASSUMED THAT MD 2 RUNS IN A NORTH-SOUTH DIRECTION.

**II. INTERSECTION OPERATION**

THE INTERSECTION WILL OPERATE IN A NEMA THREE (3) PHASE FULLY TRAFFIC ACTUATED MODE.

A NEW EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE INSTALLED.

THE INTERSECTION WILL BE INTERCONNECTED WITH THE JENNIFER ROAD / MEDICAL PARKWAY SIGNAL TO THE NORTH.

MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

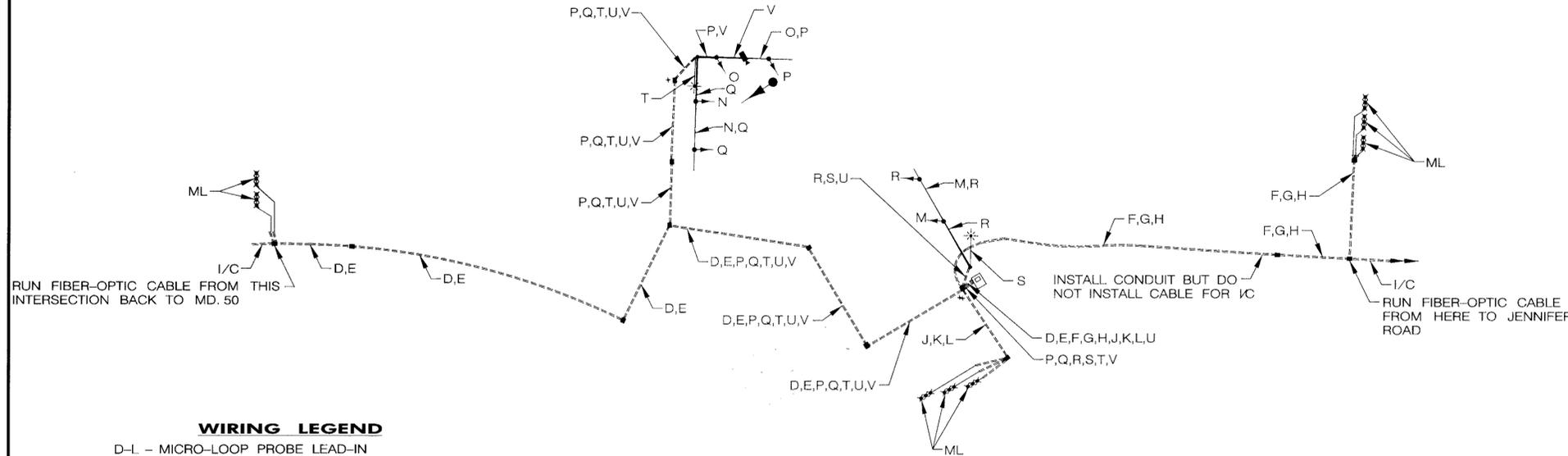
**EQUIPMENT LIST**

**A. EQUIPMENT TO BE SUPPLIED BY THE SHA.**

CATEGORY CODE NO.	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
971017	1	EA	816	EIGHT PHASE FULLY ACTUATED ASC II CONTROLLER HOUSED IN A BASE MOUNTED CABINET (SIZE 6) WITH VIDEO DETECTION EQUIPMENT
973023	52	SF	813	FLAT SHEET ALUMINUM SIGNS TO CONSIST OF: 2 EACH W3-3 SIGN 1 EACH R3-3, (NO TURNS) 3 EACH R3-5L, (LEFT ONLY) 2 EACH R3-2, (NO U NO LEFT TURNS)

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

CATEGORY CODE NO.	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
203030	3	CY	205	TEST PIT EXCAVATION
801004	13	CY	801	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
802501	379	LF	810	FURNISH AND INSTALL #6 A.W.G. STRANDED BARE COPPER GROUND WIRE
805011	62	LF	805	FURNISH AND INSTALL 1" GALV. STEEL CONDUIT-GALVANIZED SLEEVE
805118	249	LF	805	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID P.V.C. CONDUIT-BORED
800000	44	LF	SP	FURNISH AND INSTALL 2" SCHEDULE 80 RIGID P.V.C. CONDUIT-TRENCHED
805140	825	LF	805	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID P.V.C. CONDUIT-TRENCHED
805160	20	LF	805	FURNISH AND INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
807205	1	EA	807	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
811001	13	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE
801104	64	LF	812	FURNISH AND INSTALL WOOD SIGN SUPPORT 4 INCH x 4 INCH
813014	18	SF	813	INSTALL GROUND MOUNTED SIGN.
813015	34	SF	813	INSTALL OVERHEAD SIGN
818041	1	EA	818	FURNISH AND INSTALL MAST ARM POLE AND 60' MAST ARM
818050	1	EA	818	FURNISH AND INSTALL MAST ARM POLE AND TWIN 50'/60' MAST ARMS
831010	2	EA	806	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE
837001	3	EA	804	FURNISH AND INSTALL GROUND ROD (3/4" DIAMETER x 10' LENGTH)
861107	84	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	892	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
861116	435	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
866103	2	EA	818	FURNISH AND INSTALL 15 FT. LIGHTING ARM FOR SIGNAL STRUCTURE
871202	1	EA	816	INSTALL CONTROLLER AND CABINET-BASE MOUNT
810550	3	EA	SP	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
810555	2	EA	SP	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN
860272	18	EA	806	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
816001	1	EA	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CAMERA
816010	1	EA	SP	FURNISH AND INSTALL CAMERA TO CONTROL CABINET CABLE, 500 FT. ASSEMBLY

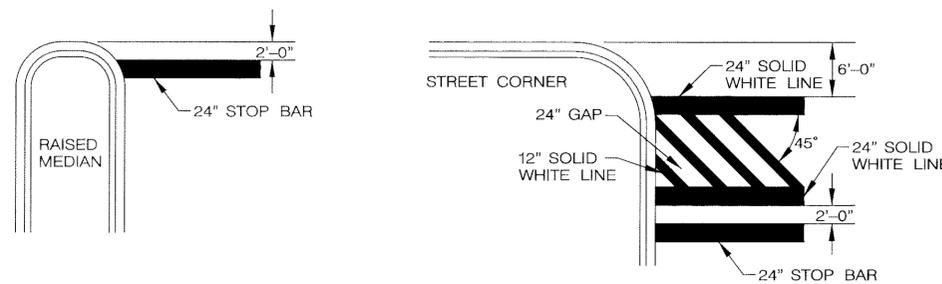


**WIRING LEGEND**

- D-L - MICRO-LOOP PROBE LEAD-IN
- M-O - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- P-R - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- S-T - 2 CONDUCTOR CABLE (NO. 12 A.W.G.) (STREET LIGHTS)
- U - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- V - 3 CONDUCTOR CABLE (NO. 14 A.W.G.) FOR VIDEO CAMERA
- x - 3/4"x10' GROUND ROD
- LW - LOOP WIRE
- I/C - FIBER-OPTIC CABLE
- ML - MICRO-LOOP PROBE

**WIRING DIAGRAM**  
NOT TO SCALE

**STRIPING DETAILS**



DIAGONAL LINES PLACED WHERE SHOWN ON THE PLANS OR WHERE DIRECTED BY THE ENGINEER.

**PHASING DIAGRAM**

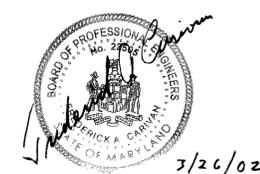
	1	2	3	4	5	6
PHASE 2+6	(R)	(R)	(R)	(R)	(R)	(R)
2+6 CHANGE	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
PHASE 4	(G)	(G)	(G)	(G)	(G)	(G)
4 CHANGE	(R)	(R)	(R)	(R)	(R)	(R)
FLASHING OPERATION	FL Y	FL Y	FL Y	FL Y	FL R	FL R

REVISIONS	

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 2 AND WESTBOUND US 50/301 RAMP 'A' SPUR**  
GENERAL INFORMATION SHEET

DRAWN BY: S.F.N.	F.A.P. NO. SEE TITLE SHEET	TS NO.
CHECKED BY: F.A.C.	S.H.A. NO. A66015170	TS-4072
SCALE: NOT TO SCALE	COUNTY: ANNE ARUNDEL	SHEET NO.
DATE: MARCH, 2002	LOG MILE:	E-158X 210 OF 266

**A/E GROUP, INC.**  
ENGINEERS • PLANNERS  
181 E. Main Street  
Westminster, Maryland 21158  
A/E Job No. 99-386



3/26/02

FILE: c:\land\jobs\99-386\isp\mde\110223\mmp\p1.dgn DATE: 03-26-02 10:55