

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

**PROJECT DESCRIPTION**

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 214 (CENTRAL AVENUE) AND MD 468 (MUDDY CREEK ROAD) IN ANNE ARUNDEL COUNTY. MD 214 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

THE PROJECT IS NECESSITATED BY GEOMETRIC IMPROVEMENTS. SIGNALIZATION WORK WILL CONSIST OF THE INSTALLATION OF LANE CONTROL SIGNS AND THE REPLACEMENT OF DETECTORS.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA THREE-PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH THE MD 214 APPROACHES OPERATING CONCURRENTLY AND THE MD 468 APPROACH OPERATING ALONE.

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER HOUSED IN A POLE MOUNTED CABINET WILL BE USED.

INSTALL A DETECTOR RACK RETROFIT AND TWO-FOUR (4) CHANNEL, TIME DELAY OUTPUT, LOOP DETECTOR AMPLIFIERS.

SPECIAL NOTES

1) NO EQUIPMENT WILL BE SUPPLIED BY THE SHA ON THIS PROJECT

**PHASE CHART**

PHASING WILL NOT CHANGE

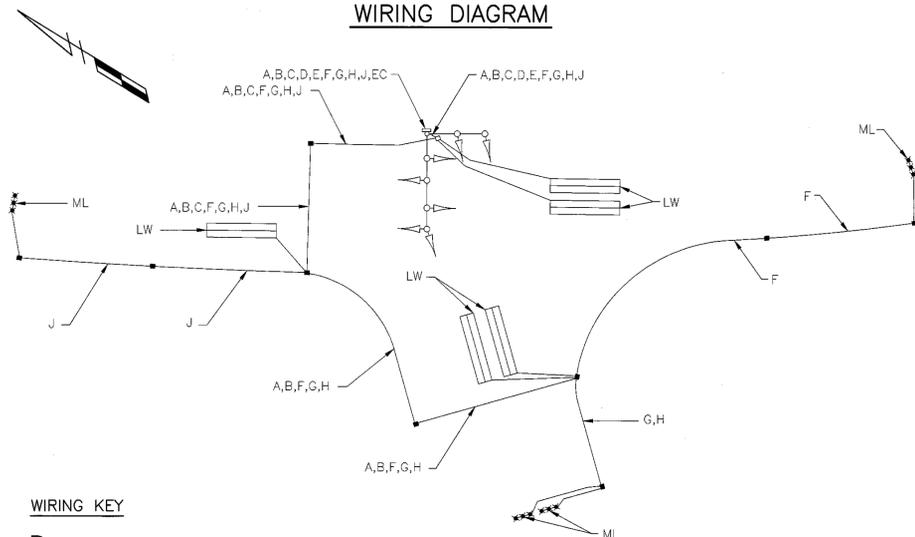
**EQUIPMENT LIST**

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
---	75 L.F.	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING TAPE
8016	2 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
8017	2 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN
8021	800 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8023	70 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT - DETECTOR SLEEVE
8024	830 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED)
8030	150 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED)
8031	130 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (SLOTTED)
8033	9 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8040	2500 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8041	850 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 A.W.G.)
---	3 EACH	FURNISH AND INSTALL DETECTOR AMPLIFIER, 4-CHANNEL RACK MOUNT
---	1 EACH	FURNISH AND INSTALL DETECTOR RACK RETROFIT
---	16 S.F.	FURNISH AND INSTALL SHEET ALUMINUM SIGNS TO CONSIST OF THE FOLLOWING: - 2 EACH R3-5(L) SIGN (30 IN. X 36 IN.) - MAST ARM MOUNT

NOTE: ITEM NUMBERS CORRESPOND TO MSHA AREA WIDE CONTRACT

**WIRING DIAGRAM**



WIRING KEY

- 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED) NO. 14 A.W.G.
- MICRO-LOOP PROBE LEAD-IN
- EXISTING CABLE
- MICRO-LOOP PROBE SET
- LOOP WIRE (NO. 14 A.W.G.)

**TRAFFIC CONCEPTS, INC.**

Brightview Business Center  
8258 Veterans Highway  
Suite 19B  
Millersville, MD 21108  
(410) 987-0427

REVISIONS	APPROVALS
	ASSISTANT DIVISION CHIEF
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENG. DESIGN DIV.
	DIR., OFFICE OF TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION SHEET  
MD 214 AND MD 468

DATE: 8-7-98	DRAWN BY: I. ZAYDEL	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
SCALE: NONE	DESIGNED BY: I. ZAYDEL	S.H.A. NO.	TS-125B GI	2 OF 2
APPROVED BY:	CHECKED BY: K. SCHMID	COUNTY: ANNE ARUNDEL		

Loop Wire : 02-021407-46