

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT US 1 & MONTROSE AVENUE IN PRINCE GEORGE'S COUNTY. THE MODIFICATIONS CONSIST OF INSTALLING NEW LOOP DETECTORS ON THE WEST LEG OF THE INTERSECTION DUE TO NEW GEOMETRICS AND PAVEMENT MARKINGS ALONG US ROUTE 1.

**INTERSECTION OPERATION**

THIS INTERSECTION OPERATES IN A NEMA TWO PHASE, SEMI-TRAFFIC-ACTUATED MODE, WITH THE SOUTHBOUND US 1 MOVEMENTS AND THE EASTBOUND MONTROSE AVENUE MOVEMENTS OPERATING AS SEPARATE PHASES. NO PEDESTRIAN PHASES ARE PROVIDED AT THIS INTERSECTION. A FIRE PRE-EMPTION PHASE IS PROVIDED ON THE NORTH LEG OF THE INTERSECTION.

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR DISTRICT # 3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS  
DISTRICT ENGINEER  
PHONE: (301)-513-7300

MR. AUGIE REBISH  
UTILITY ENGINEER  
PHONE: (301)-513-7350

MR. MAJID SHAKIB  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301)-513-7358

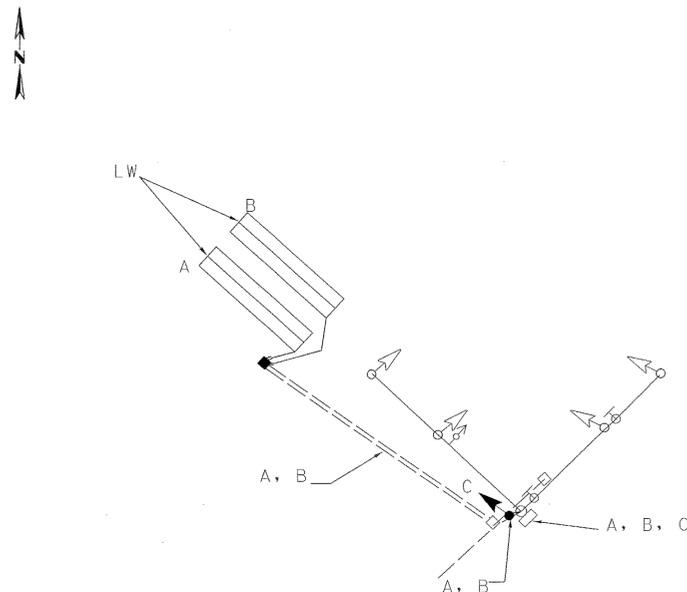
MR. RANDY BROWN  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (301)-513-7304

**EQUIPMENT LIST "B"**

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

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
585624	100 L.F.	FURNISH AND INSTALL 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
805145	70 L.F.	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - SLOTTED
805160	20 L.F.	FURNISH AND INSTALL 1 INCH LIQUID-TIGHT, FLEXIBLE NON-METALLIC CONDUIT DETECTOR SLEEVE
811001	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
860161	1 EACH	FURNISH AND INSTALL 12 INCH 1 WAY 3 SECTION (RA,YA,GA) SIGNAL HEAD-POLE MOUNT
861104	250 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 A.W.G.)
861107	25 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5CONDUCTOR (NO. 14 A.W.G.)
862101	1000 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING
862102	275 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL
800000	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT

**WIRING DIAGRAM**



**WIRING LEGEND**

- LW - LOOP WIRE (NO 14 AWG.)
- A, B - 2-CONDUCTOR (ALUMINUM SHIELDED) (NO 14 AWG.)
- C - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG.)

**PHASE CHART**

	1	2	3	4	5	
	R C E	R C E	R C E	R C E	R C E	
PHASE 2	G	G	R	R	R	←
2 CHANGE	Y	Y	R	R	R	
PHASE 4	R	R	G	G	G	→
4 CHANGE	R	R	Y	Y	Y	
PRE-EMPTION	G	G	R	R	R	←
PRE-EMPTION CHANGE	Y	Y	R	R	R	
FLASHING OPERATION	FL Y	FL Y	FL R	FL R	FL R	↕

TSP-8 OF TSP-17

**KCI TECHNOLOGIES INC.**  
ENGINEERS AND PLANNERS  
10 NORTH PARK DRIVE  
HUNT VALLEY, MARYLAND  
21030-1888  
(410) 316-7800

REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
*Office of Traffic & Safety*  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
US 1 OAK STREET TO TALBOTT AVENUE (MD 198)  
GENERAL INFORMATION SHEET  
US 1 @ MONTROSE AVE.

DRAWN BY: A. HOTTENSTEIN	F.A.P. NO. PG2745184	SEE TITLE SH.	TS NO. 1630A
CHECKED BY: J. LAWRENCE	COUNTY: PRINCE GEORGE'S		SHEET NO. 120 OF 162
SCALE: NONE	LOG MILE: 16000113.31		
DATE: 11/99			