DRILL HOLES

BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the replacement of an existing mast arm Traffic Control Signal pole with street lighting at the intersection of MD 5 (Point Lookout Rd) and MD 246 (Great Mills Rd) in St. Mary's County. The replacement is the result of a knock down involving the signal structure. MD 5 (Point Lookout Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA five-phase, fully-actuated mode, with the MD 5 (Point Lookout Rd) approaches running concurrently. The Exclusive left turn phase for the southbound approach of MD 5 (Point Lookout Rd) shall remain in operation. The pedestrian phase with pushbutton actuation across the east leg of MD 246 (Great Mills Rd) shall remain in operation. The MD 246 (Great Mills Rd) approaches shall continue to operate as a side street split phase. A separate right turn overlap phase for the westbound approach of MD 246 (Great Mills Rd) shall remain in operation. A firehouse pre-emption phase for the westbound approach of MD 246 (Great Mills Rd) shall remain in operation.

The contact persons for District #5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1003

Mr. Andre Futrell
Assistant District Engineer - Maintenance
Phone: (410) 841-1002

Mr. John Mays
Assistant District Engineer - Utility
Phone: (410) 841-1005

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

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Sonny Bailey
Sign Shop
410-787-7670

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	20 SF
	D3-2 "Great Mills Rd " sign. (variable x 16")	1 EA
	GUIDE SHIELD ASSEMBLY (24"x51") pole mounted. M3-1 "NORTH"(24"X12") M1-5 "MD 5"(24"X24") M6-2 "right arrow "(21"X15")	1 EA
	Pedestrian education R10-4(1) mod sign. (Note: Sign to read "PUSHBUTTON TO CROSS CROSS GREAT MILLS RD".)	1 EA

EQUIPMENT LIST (cont.)

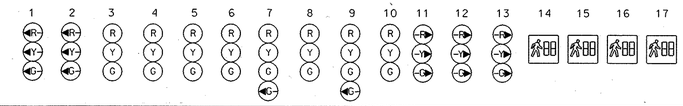
B EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	1 C.Y.
8001	12" LED signal head section.	9 EA
8007	Any size lighting arm on signal pole with 250 watt HPS lamp & luminaire.	2 EA
8014	LED 16" countdown pedestrian signal head.	4 EA
8016	Mast arm pole and 38' mast arm any "T" dimension	1 EA
8022	Remove and dispose of existing material and equipment per assignment.	1 EA
8035	Schedule 80 rigid PVC conduit up tp 4" - trenched.	35 L.F.
8039	Install overhead or ground mounted sign (including hardware).	20 S.F.
8041	No. 6 AWG stranded bare copper ground wire.	35 L.F.
8054	Electrical cable - 2 conductor (No. 14 AWG).	L.F.
8056	Electrical cable - 5 conductor (No. 14 AWG).	1080 L.F.
8057	Electrical cable - 7 conductor (No. 14 AWG).	520 L.F.
8058	Electrical cable - 2 conductor (No. 12 AWG) tray cable.	510 L.F.

C. EQUIPMENT TO BE REMOVED

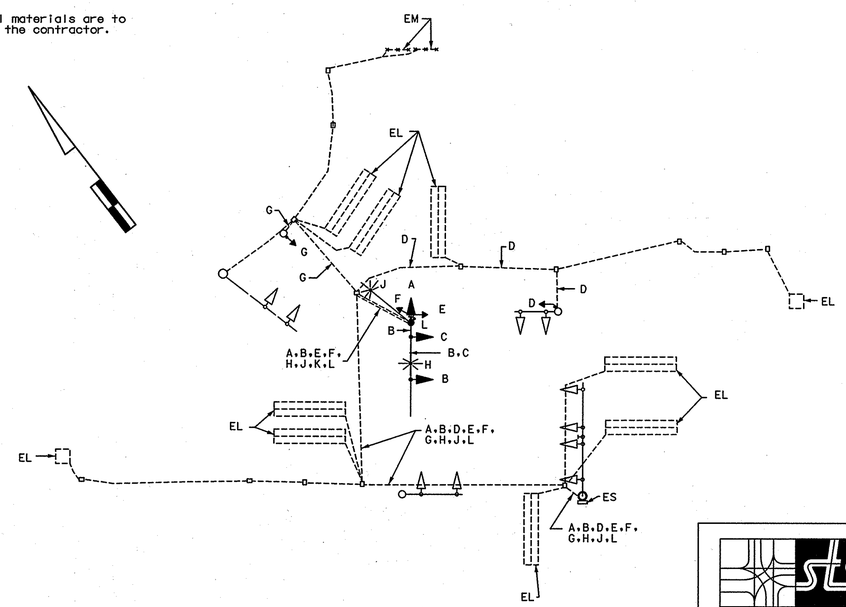
All removed signal materials are to become property of the contractor.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
PHASE 1 & 6	G	G	G	G	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW	
1 & 6 CHANGE	Y	Y	G	G	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	
PHASE 2 & 6	R	R	G	G	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	
2 & 6 CHANGE	R	R	Y	Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 & 6 ALT	R	R	G	G	G	G	R	R	R	R	R	R	R	WK	WK	WK	WK	
PED CLEAR	R	R	G	G	G	G	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	
2 & 6 CHANGE ALT	R	R	Y	Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 3	R	R	R	R	R	R	G/G	G	R	R	R	R	R	DW	DW	DW	DW	
3 CHANGE	R	R	R	R	R	R	Y	Y	R	R	R	R	R	DW	DW	DW	DW	
PHASE 4	R	R	R	R	R	R	R	R	G/G	G	G	G	G	DW	DW	DW	DW	
4 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	
PRE-EMPT 1	R	R	R	R	R	R	R	R	G/G	G	G	G	G	DW	DW	DW	DW	
PRE-EMPT 1 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	

WIRING DIAGRAM



WIRING KEY

A, B } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

C, D, E, F, G } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

H, J } 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G)

K - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

L - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

EM - EXISTING MICROLOOP LEAD-IN CABLE

EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING

ES - EXISTING SERVICE TO BE MAINTAINED BY SMECO

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

5329GI.dgn TASK 99

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 5 (POINT LOOKOUT ROAD) AND MD 246 (GREAT MILLS ROAD)

GREAT MILLS, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 2/23/07 CONTRACT NO.

DESIGNED BY JWA COUNTY ST. MARY'S
DRAWN BY RC LOGMILE 18000519.14
CHECKED BY TIMS NO. F437
F.A.P. NO. TOD NO.

TS NO. 2071F | DRAWING NO. 2 OF 2 | SHEET NO. OF

DRILL HOLES

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