

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF EMERGENCY VEHICLE OPTICOM PRE-EMPTION EQUIPMENT FOR THE NORTHBOUND AND SOUTHBOUND APPROACHES OF US 1 (WASHINGTON BOULEVARD) AT MISSION ROAD IN HOWARD COUNTY. US 1 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

II. INTERSECTION OPERATION

- THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX (6) PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE/ PERMISSIVE LEFT TURN PHASE FOR THE NORTH AND SOUTHBOUND MOVEMENTS OF US 1 (WASHINGTON BLVD.) OPERATES CONCURRENTLY. THE SIDE STREETS OPERATE CONCURRENTLY WITH AN ACTUATED PEDESTRIAN MOVEMENT ACROSS THE NORTH LEG OF US 1.
- AN EIGHT PHASE, FULL-TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH INTERSECTION MONITOR AND HARNESS, BATTERY BACK-UP, VIDEO DETECTION EQUIPMENT, AND TWO (2) FOUR-CHANNEL RACK MOUNTED TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIERS HOUSED IN A BASE MOUNTED CABINET IS INSTALLED AT THIS LOCATION. COMMUNICATIONS ARE VIA PHONE DROP.

III. SPECIAL NOTE:

- APS FUNCTIONS AS FOLLOWS:  
FOR US 1 (WASHINGTON BLVD.)  
A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE WAIT TO CROSS WASHINGTON BLVD.  
B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

NOTES

- FOR FINAL PAVEMENT MARKINGS, REFER TO THE PAVEMENT MARKING PLANS, AS APPLICABLE; OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH ADMINISTRATION STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND 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.
- THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO THE ADMINISTRATION AFTER NOTIFICATION BY THE ENGINEER.
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING TRAFFIC CONTROL STANDARDS MD 104.03-09, MD 104.03-11 AND MD 104.03-13

CONTACTS

<b>DISTRICT</b>	<b>OFFICE OF TRAFFIC AND SAFETY</b>
MR. DAVE COYNE DISTRICT ENGINEER (301)624-8101/8102	MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. JOHN CONCANNON ASSISTANT DISTRICT ENGINEER - TRAFFIC (301)624-8140/8141	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
MS. ANDREA ABEND DISTRICT ENGINEER - UTILITY (301)624-8115/8116	MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS 410-787-7650
MR. JOHN HUCHROWSKI ASSISTANT DISTRICT ENGINEER - CONSTRUCTION (301)624-8200/8201	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS 410-787-7670
MS. SUE PALMER ASSISTANT DISTRICT ENGINEER - MAINTENANCE (301)624-8105/8106	MS. DARLENE EIDE SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

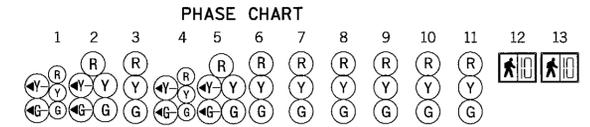
EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

NONE

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

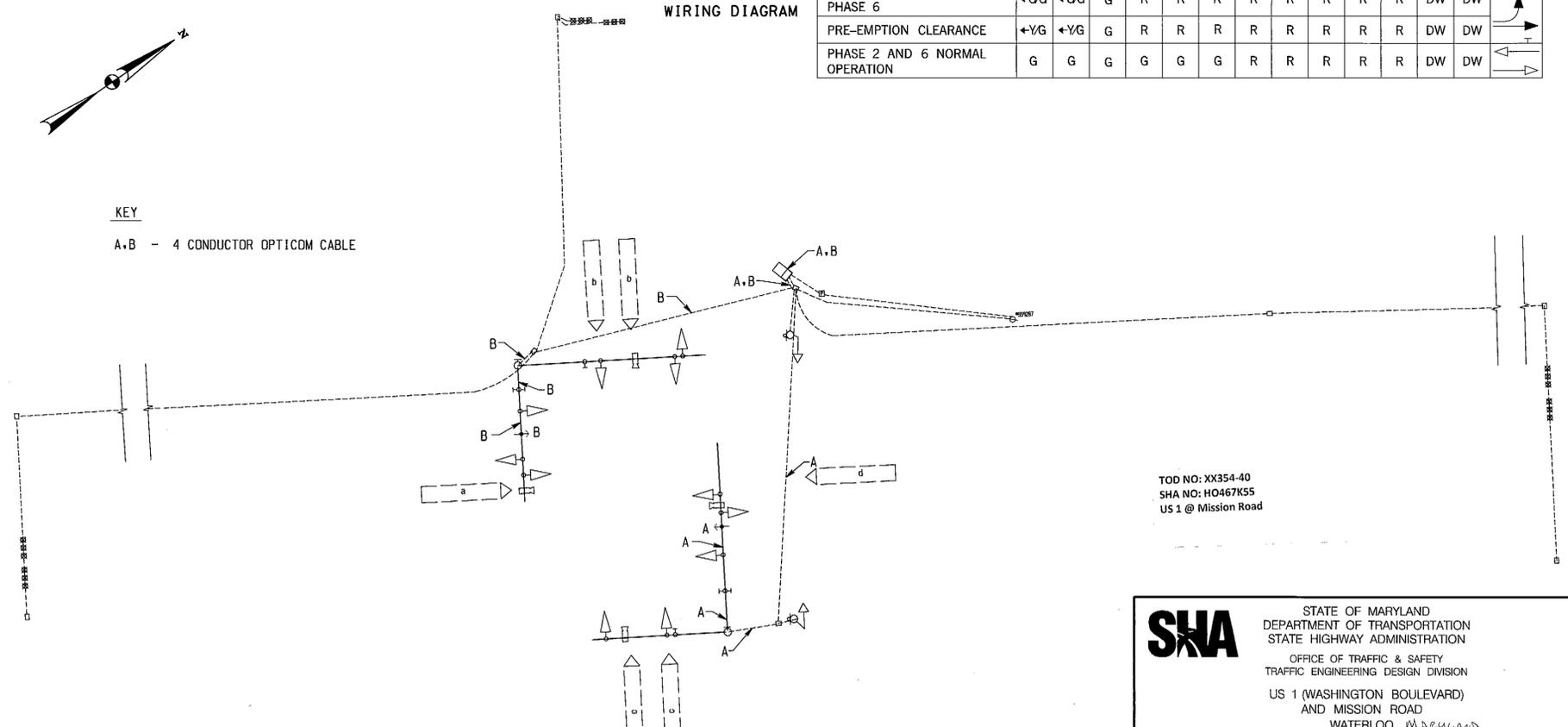
ITEM NO./CAT CODE	QUANTITY	DESCRIPTION
1003	1 EA	MAINTENANCE OF TRAFFIC
8031	430 LF	4-CONDUCTOR OPTICOM CABLE
8045	1 EA	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8047	2 EA	OPTICOM NO. 721 DETECTOR EYE



PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	R	R	R	R	R	R	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6													
PHASE 1 AND 6	+GG	+GG	G	R	R	R	R	R	R	R	R	DW	DW
1 CHANGE	+GY	+YG	Y	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 AND 5	R	R	R	+GG	+GG	G	R	R	R	R	R	DW	DW
5 CHANGE	R	R	R	+GY	+YG	Y	R	R	R	R	R	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW
PHASE 4 & ALT 8	R	R	R	R	R	R	G	G	G	G	G	Wk	Wk
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	FLDW	FLDW
4 & ALT 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

FIRE HOUSE PRE-EMPTIONS

PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13
FIRE HOUSE PRE-EMPTION PHASE 2	R	R	R	+GG	+GG	G	R	R	R	R	R	DW	DW
PRE-EMPTION CLEARANCE	R	R	R	+YG	+YG	G	R	R	R	R	R	DW	DW
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	R	R	R	DW	DW
FIRE HOUSE PRE-EMPTION PHASE 6	+GG	+GG	G	R	R	R	R	R	R	R	R	DW	DW
PRE-EMPTION CLEARANCE	+YG	+YG	G	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	R	R	R	DW	DW



TOD NO: XX354-40  
SHA NO: HO467K55  
US 1 @ Mission Road

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 1 (WASHINGTON BOULEVARD)  
AND MISSION ROAD  
WATERLOO, MARYLAND

GENERAL INFORMATION SHEET	
SCALE 1" = 20'	ADVERTISED DATE 6/2011 CONTRACT NO. XX3545168R
DESIGNED BY AMH	COUNTY HOWARD
DRAWN BY RLB	LOGMILE 13000104.76
CHECKED BY JFL	TIMS NO. K771
F.A.P. NO.	TOD NO.
TS NO. 4578B-GI	DRAWING SP-2 OF 2 SHEET NO. 2 OF 2

**KCI** TECHNOLOGIES  
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PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS  
936 RIDGEBROOK ROAD  
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BY: Aaron Hottenstein Division: P068 Highway Traffic/GMA Emp