

Revised: 03/27/2013

DRILL HOLES

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BY: Mex

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 1 (BALTIMORE AVE.) AND LAUREL MALL ENTRANCE IN PRINCE GEORGE'S COUNTY. THE WORK IS NECESSITATED BY GEOMETRIC IMPROVEMENTS TO THE WEST LEG OF THE INTERSECTION AND UPGRADING PEDESTRIAN FACILITIES. US 1 (BALTIMORE AVE.) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FIVE-PHASE, SEMI-ACTUATED MODE. AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE EXISTS AND SHALL REMAIN IN OPERATION FOR THE NORTHBOUND APPROACH OF US 1 (BALTIMORE AVE.). THE ALTERNATE PEDESTRIAN PHASE FOR THE SOUTH LEG OF US 1 (BALTIMORE AVE.) WILL REMAIN. THE LAUREL MALL ENTRANCE /COMMERCIAL DRIVEWAY SHALL CONTINUE TO RUN CONCURRENTLY.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. INSTALL A 2-WIRE CENTRAL CONTROL UNIT.

APS OPERATION

- TO CROSS BALTIMORE AVENUE
- WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS BALTIMORE AT LAUREL MALL, WAIT."
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

QUANTITY	DESCRIPTION
NONE	

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
2 CY	TEST PIT EXCAVATION
195 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
300 LF	12 IN. HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
115 LF	24 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKING
2 EA	L.E.D. 16 IN. COUNTDOWN PEDESTRIAN
2 EA	AUDIBLE /TACTILE PEDESTRIAN PUSHBUTTON AND SIGN
2 CY	CONCRETE FOUNDATION FOR SIGNAL
2 EA	BREAKAWAY PEDESTAL POLE
1 EA	ELECTRICAL HANDHOLE
2 EA	ADJUST EXISTING HANDHOLE TO GRADE
85 LF	1 IN. DETECTOR SLEEVE FLEXIBLE, LIQUID-TIGHT CONDUIT
25 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
90 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- SLOTTED
LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
17 LF	WOOD SIGN SUPPORTS 4 IN. X 4 IN.
2685 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
150 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 14 A.W.G.)
170 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
110 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
1 EA	3/4 IN. X 10 FT. GROUND ROD
695 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
1 EA	R4-7 (24" X 30") SIGN - GROUND MOUNT
1 EA	2-WIRE CENTRAL CONTROL UNIT

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. VENU NEMANI
 ASSISTANT DISTRICT ENGINEER - TRAFFIC
 (301) 513-7404

MR. TOM FOUNTAIN
 ASSISTANT DISTRICT ENGINEER - MAINTENANCE
 (301) 513-7304

MR. VICTOR GRAFTON
 UTILITY ENGINEER
 (301) 513-7350

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MS. CORREN JOHNSON
 CHIEF, TRAFFIC OPERATIONS
 (410) 787-7630

MR. EUGENE BAILEY
 TEAM LEADER SIGN OPERATIONS
 (410) 787-7676

ASSISTANT DIVISION CHIEF,
 TRAFFIC OPERATIONS
 (410) 787-7631

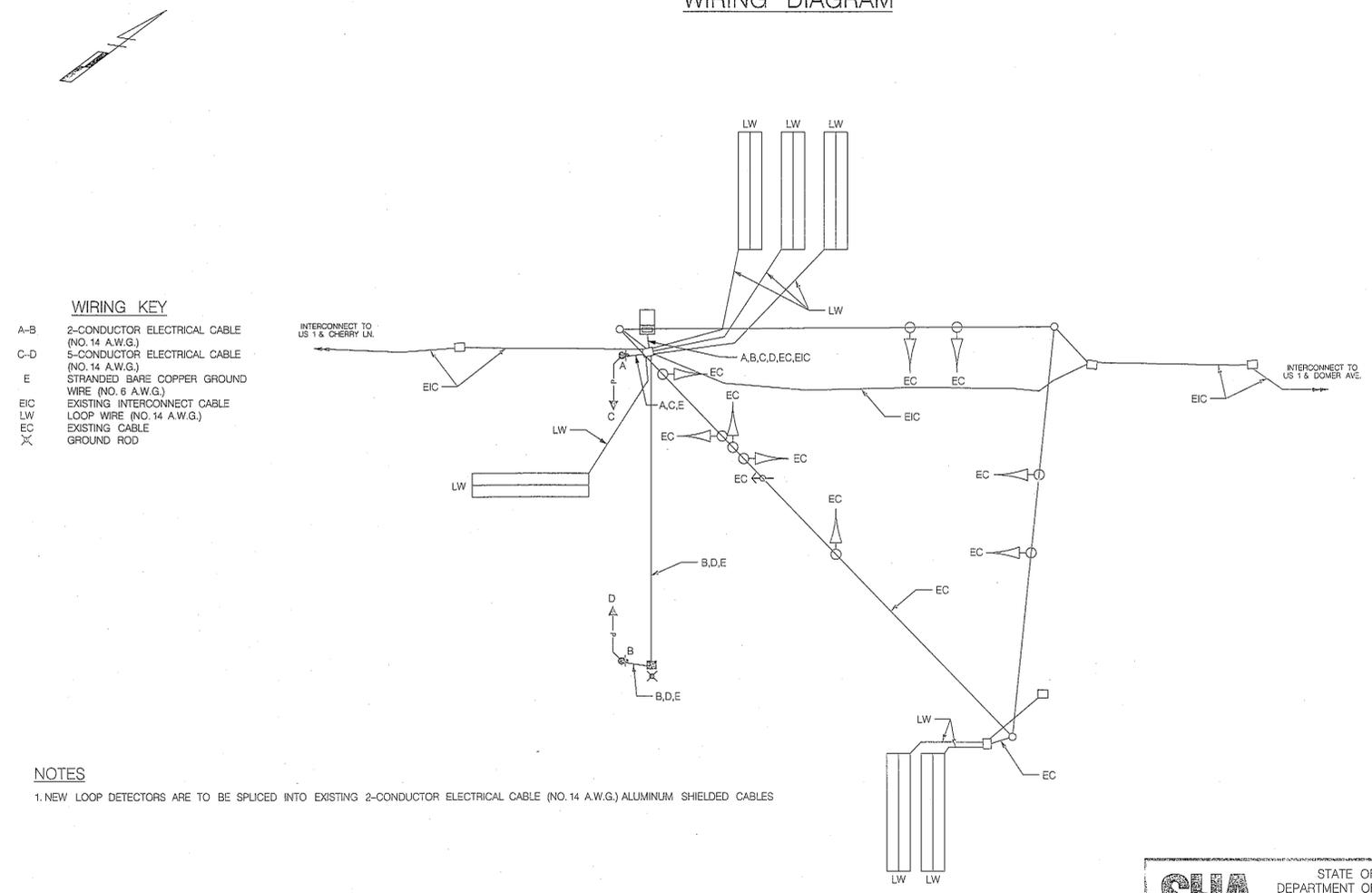
MR. MIKE STOCKER
 SUPPLY OFFICE
 SIGNAL SHOP WAREHOUSE
 (410) 787-7668

MR. ED RODENHIZER
 CHIEF - SIGNAL OPERATIONS SECTION
 (410) 787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11
PHASE 1 & 6	G	G	G	R	R	R	R	R	R	DW	DW
1 CHANGE	G	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
PHASE 4 & 8	R	R	R	R	R	G	G	G	G	DW	DW
4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 4 ALT. & 8	R	R	R	R	R	G	G	G	G	WK	WK
PED CLEAR	R	R	R	R	R	G	G	G	G	FL	FL
4 ALT. & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PRE-EMPTION	G	G	G	G	G	R	R	R	R	DW	DW
CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK

WIRING DIAGRAM



NOTES

- NEW LOOP DETECTORS ARE TO BE SPICED INTO EXISTING 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED CABLES

SHA TRACKING NO. 09-AP-PG-002

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 US 1 (BALTIMORE AVE.) AND
 LAUREL MALL ENTRANCE
 LAUREL, MARYLAND

GENERAL INFORMATION PLAN

SCALE	NONE	DATE	6-14-2013	CONTRACT NO.	BW996M82
DESIGNED BY	J.K. SCHMID	COUNTY	PRINCE GEORGE'S		
DRAWN BY	A.M. ROSEN	LOGMILE	16000112.98		
CHECKED BY	T. ZAYDEL	TIMS NO.			
F.A.P. NO.		TOD NO.			

PROFESSIONAL CERTIFICATION (HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. _____, EXPIRATION DATE: 8/2/2014)

PLOTTED: 6/18/2013
 FILE: M:\2013\0504(Signals)\US 1 @ Mall Entrance\signal V8.dgn

DRAWING NO. TS-1629 F-GI SHEET NO. 2 OF 2