DRILL HOLES

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PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 1 (BELAIR RD.) AND MD 152 MOUNTAIN RD. IN HARFORD COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A NORTHBOUND US 1 DOUBLE LEFT TURN. US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR BOTH DIRECTIONS OF US 1 AND EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR MD 152. THE EXCLUSIVE LEFT TURN PHASE FOR SOUTHBOUND US 1 IS A LEADING PHASE. THE EXCLUSIVE LEFT TURN PHASE FOR NORTHBOUND US 1 IS A LAGGING PHASE. THIS WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

EQUIPMENT LIST "A"

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

ITEM NO.	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
3 EA	12 INCH LED SIGNAL HEAD SECTION
1 EA	50 FT. MAST ARM
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
1 EA	VIDEO DETECTION CABLE
25 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
725 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
1 EA	R3-5L (30" X 36") SIGN - MAST ARM MOUNT
5 EA	RELOCATE EXISTING SIGNAL HEAD
2 EA	RELOCATE EXISTING SIGN
1 EA	RELOCATE EXISTING VIDEO DETECTION CAMERA

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 229-2380

MR. MICHAEL PASQUARIELLO
UTILITY ENGINEER
(410) 229-2341

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 229-2361

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF - TRAFFIC OPERATIONS
(410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF -
TRAFFIC OPERATIONS
(410) 787-7631

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

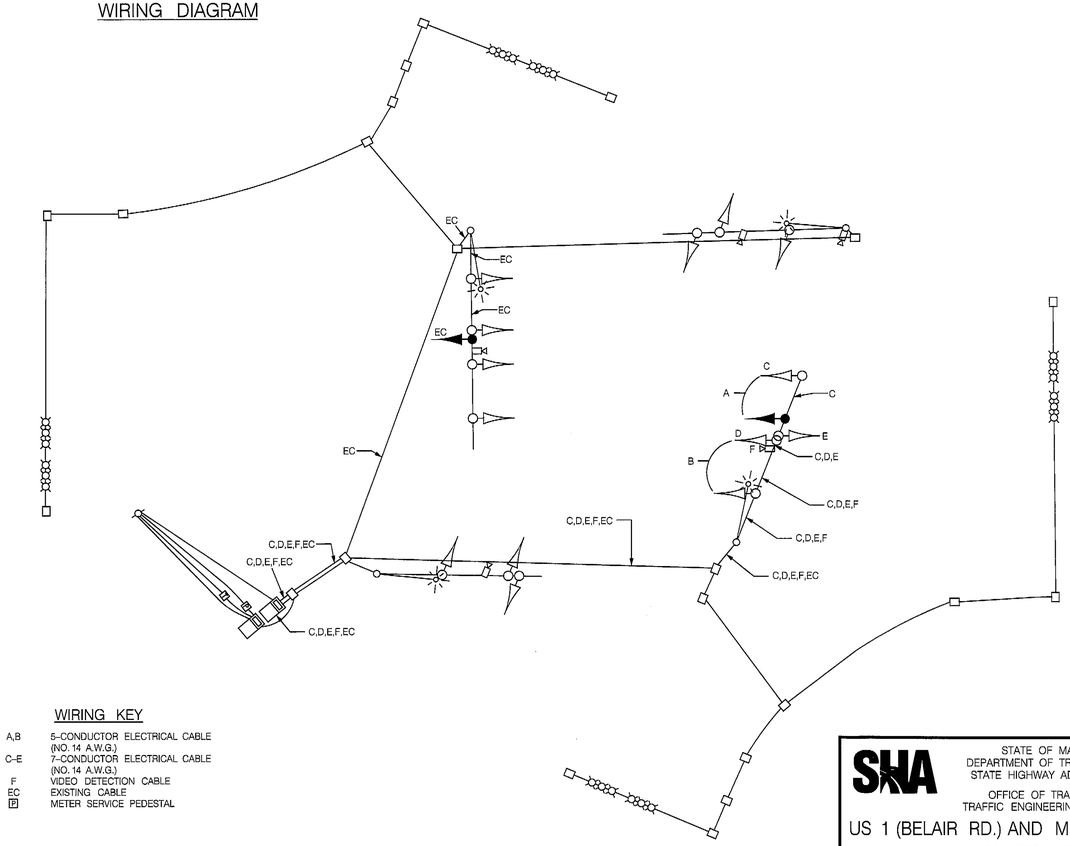
MR. EUGENE BAILEY
CHIEF - SIGN OPERATIONS
(410) 787-7676

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 2 & 5	R	R	R	R	R	G	G	G	G	G	R	R	R	R	R	R
5 CHANGE	R	R	R	R	R	Y	Y	Y	G	G	R	R	R	R	R	R
PHASE 2 & 6	R	R	R	G	G	R	R	R	G	G	R	R	R	R	R	R
2 CHANGE	R	R	R	G	G	R	R	R	G	G	R	R	R	R	R	R
PHASE 1 & 6	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R
PHASE 3 & 7	R	R	R	R	R	R	R	R	R	R	R & G	R & G	R	R & G	R & G	R
3 & 7 CHANGE	PHASE 3 & 7 MAY CHANGE TO PHASE 3 & 8, 4 & 7, OR 4 & 8															
PHASE 3 & 8	R	R	R	R	R	R	R	R	R	R	G & G	G & G	G	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	R	R	G & Y	G & Y	G	R	R	R
PHASE 4 & 7	R	R	R	R	R	R	R	R	R	R	R	R	R	G & G	G & G	G
7 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	G & Y	G & Y	G
PHASE 4 & 8	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FLR	FLR	FLR	FLY	FLY	FLR	FLR	FLR	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR

WIRING DIAGRAM



WIRING KEY

A,B	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C-E	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
F	VIDEO DETECTION CABLE
EC	EXISTING CABLE
P	METER SERVICE PEDESTAL

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite B
Gambrills, MD 21054
(410) 923-7101
FAX: (410) 923-6473
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 1 (BELAIR RD.) AND MD 152 (MOUNTAIN RD.)
FALLSTON, MARYLAND

GENERAL INFORMATION PLAN

SCALE	NONE	DATE	4-5-2011
CONTRACT NO.	BW-996M82		
DESIGNED BY	T.ZAYDEL	COUNTY	HARFORD
DRAWN BY	J.K. SCHMID	LOGMILE	12000101.35
CHECKED BY	K. SCHMID	T.I.M.S. NO.	K-752
F.A.P. NO.	N/A	TOD NO.	
DRAWING NO.	TS-681 K GI	SHEET NO.	2 OF 2

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DATE: Tuesday, April 05, 2011 AT 03:22 PM