

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 40 AND CHESAPEAKE BLVD/KIRSTEN COURT IN CECIL COUNTY. US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION. THE MODIFICATIONS CONSIST OF THE ADDITION OF A FOURTH LEG TO THE INTERSECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL BE CHANGED TO OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE, VIDEO DETECTION INTERFACE EQUIPMENT, AND ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET, WILL BE USED.

PHASE CHART

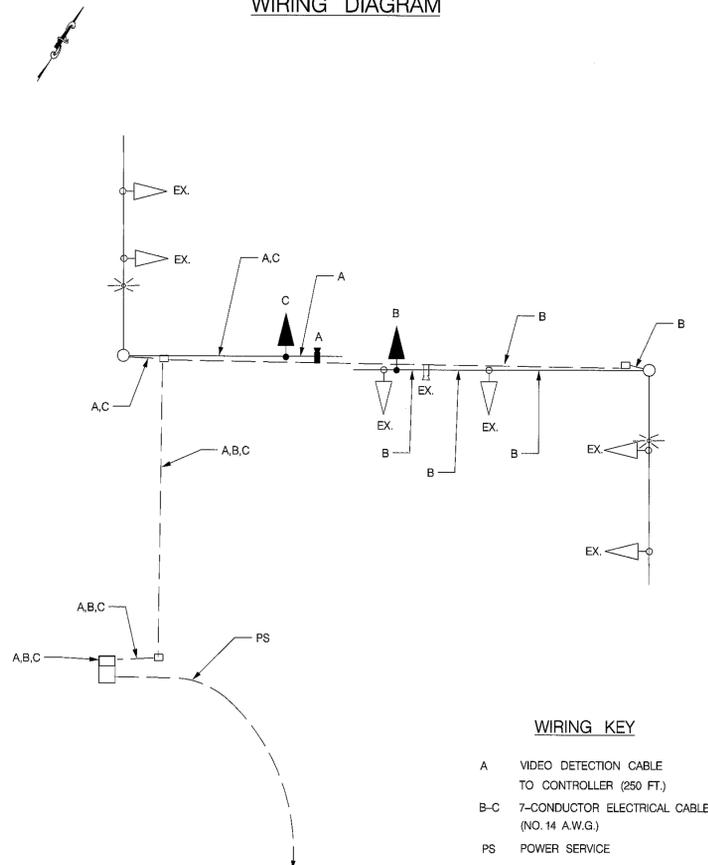
	1	2	3	4	5	6	7	8
	R	R	R	R	R	R	R	R
	Y	Y	Y	Y	Y	Y	Y	Y
	G	G	G	G	G	G	G	G
PHASE 2 AND 6	G	G	G	G	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R
PHASE 4 AND 8	R	R	R	R	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5005	75 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
8005	1 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
8007	1 EA	FURNISH AND INSTALL 250 FT. VIDEO CABLE TO CONTROLLER
8014	1 EA	CUT, CLEAN AND CAP TRAFFIC SIGNAL STRUCTURE
8018	6 EA	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8078	485 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
---	1 EA	FURNISH AND INSTALL D3-1 DUAL FACE SIGN (VAR. X 32") "CHESAPEAKE BLVD WRT. ARROW KIRSTEN CT WLEFT ARROW" MAST ARM MOUNT
---	1 EA	FURNISH AND INSTALL D3-1 DUAL FACE SIGN (VAR. X 32") "KIRSTEN CT WRT ARROW CHESAPEAKE BLVD WLT ARROW MAST ARM MOUNT
---	2 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") MAST ARM MOUNT
---	1 EA	FURNISH AND INSTALL M95-1 SIGN (72" X 24") MAST ARM MOUNT
---	1 EA	FURNISH AND INSTALL 70 FT. MAST ARM

WIRING DIAGRAM



WIRING KEY

- A VIDEO DETECTION CABLE TO CONTROLLER (250 FT.)
- B-C 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- PS POWER SERVICE

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 2 ARE AS FOLLOWS:

- MR. ROBERT KIEL, ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 778-3061
- MR. TERRY WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 778-3061
- MR. BARRY CLOTHIER, ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 778-3061

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

- MR. RICHARD DAFF, SR., CHIEF, TRAFFIC OPERATIONS (410) 787-7630
- MR. EUGENE BAILEY, TEAM LEADER SIGN OPERATIONS (410) 787-7676
- MR. ROBERT SNYDER, ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631
- MS. DARLENE EIDE, SUPPLY OFFICE, SIGNAL SHOP WAREHOUSE (410) 787-7668
- MR. ED RODENHIZER, TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY SHA FORCES.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

TRAFFIC CONCEPTS, INC.
 325 Gambrills Road
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 Gambrills, MD 21054
 (410) 923-7101

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SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
 GENERAL INFORMATION SHEET
US 40 AND CHESAPEAKE BOULEVARD/KIRSTEN COURT

DRAWN BY: MO	F.A.P. NO. N/A	TS NO. 4319-A-G1	SHEET NO.
CHECKED BY: TZ	S.H.A. NO. BW996M82	T.I.M.S. NO. G400	5 OF 5
SCALE: NONE	COUNTY: CECIL	LOG MILE: 07004017.17	
DATE: 10/18/2004			