

PROJECT DESCRIPTION

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THIS PROJECT INVOLVES MODIFYING THE PHASING AND ADDING VIDEO DETECTION AT THE INTERSECTION OF MD 45 (YORK ROAD) AND MD 145 (ASHLAND ROAD) IN BALTIMORE COUNTY. THE MODIFICATION INVOLVES ADDING A SIDE STREET SPLIT PHASE AND INSTALLING A NEW BASE-MOUNTED CONTROLLER CABINET IN THE NORTHEAST CORNER. MD 45 (YORK ROAD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE ARE EXCLUSIVE/PERMISSIVE LEFT TURN PHASES FOR BOTH THE NORTHBOUND AND SOUTHBOUND MOVEMENTS OF MD 45. THE MD 45 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE MD 145 AND HAMPTON INN ENTRANCE MOVEMENTS SHALL BE SPLIT PHASED.

THE SIGNAL WILL BE INTERCONNECTED TO THE MD 45/WIGHT AVENUE INTERSECTION TO THE SOUTH AND THE MD 45/SHAWAN ROAD INTERSECTION TO THE NORTH.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH ONE (1) FOUR CHANNEL, TELEMETRY EQUIPMENT, VIDEO DETECTOR SYSTEM, MONITOR WITH BATTERY BACK-UP, AND ASSOCIATED HARNESSSES HOUSED IN A NEMA '6' BASE MOUNTED CABINET.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO DETECTION CAMERAS.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
900000	1 EA	VIDEO INTERFACE EQUIPMENT
971017	1 EA	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH SYSTEM PACKAGE AND INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP. HOUSED IN A NEMA SIZE '6' BASE MOUNTED CABINET
973023	30 SF	SHEET ALUMINUM SIGNS - 1 EACH R 10-12 (36 IN X 42 IN) MAST ARM MOUNT - 1 EACH R 3-5L (30 IN X 36 IN) MAST ARM MOUNT - 1 EACH R-3-6L(MODJ) (42 IN X 36 IN) MAST ARM MOUNT

EQUIPMENT LIST "B"

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

CATEGORY CODE NO.	SPECIFICATION NUMBER	QUANTITY	DESCRIPTION
585424	549,556	160 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
800000	800	1 LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
801004	801	2 CY	CONCRETE FOR SIGNAL FOUNDATION
805125	805	10 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	805	10 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
810550	810,815	7 EA	MICROLOOP PROBE, 500 FOOT LEAD-IN CABLE
813015	813	30 SF	INSTALL OVERHEAD SIGN
816001	800	4 EA	VIDEO DETECTION CAMERA
816005	800	4 EA	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
837001	804	2 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860270	814	9 EA	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860272	814	37 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	810	25 LF	ELECTRICAL CABLE- 5 CONDUCTOR (NO.14 AWG)
861108	810	975 LF	ELECTRICAL CABLE- 7 CONDUCTOR (NO.14 AWG)
862102	815	335 LF	SAWCUT FOR SIGNAL (LOOP DETECTOR)
871202	816	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

CONTACTS FOR DISTRICT 4:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER,
TRAFFIC
410-321-2781/2785

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER,
MAINTENANCE
410-321-2761

MS. SUENETTE POPE
UTILITIES ENGINEER
410-321-2841

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
410-787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

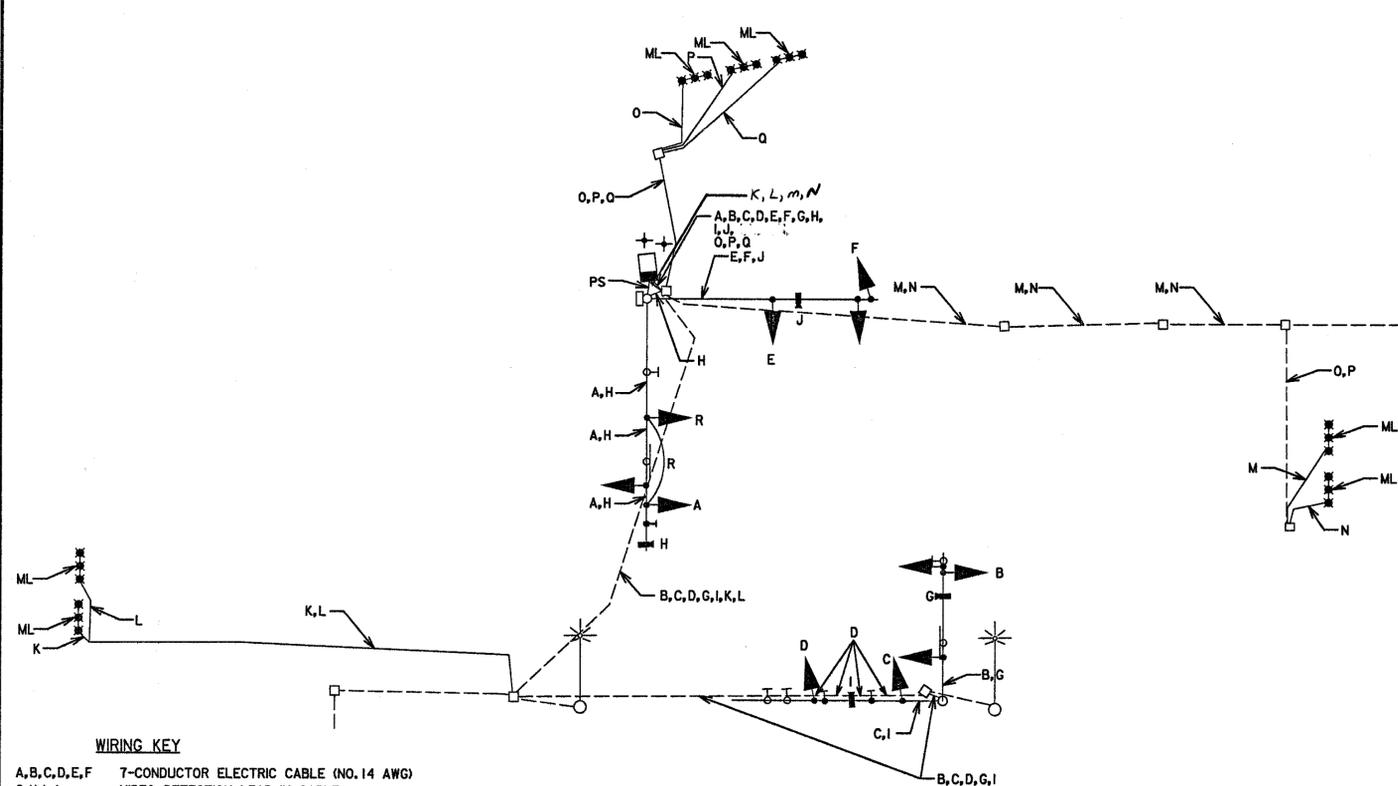
MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
410-787-7676

MR. MIKE STOCKER
SIGNAL SHOP WAREHOUSE
410-787-7696

EQUIPMENT LIST "C"

**C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:
EXISTING CONTROLLER AND INTERNAL EQUIPMENT**

WIRING DIAGRAM



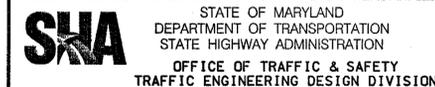
WIRING KEY

- A,B,C,D,E,F 7-CONDUCTOR ELECTRIC CABLE (NO.14 AWG)
- G,H,I,J VIDEO DETECTION LEAD-IN CABLE
- K,L,M,N,O,P,Q MICROLOOP PROBE LEAD-IN CABLE
- R 5-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
- ML MICROLOOP PROBE SET
- PS PROPOSED POWER SERVICE
- + GROUND ROD

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	
Phase 1 & 5	R	R	R	R	R	R	R	R	R	R	R	R
Phase 1 & 5 may change to Phase 1 & 6, Phase 2 & 5 or Phase 2 & 6												
Phase 1 & 6	R	R	R	R	R	R	R	R	R	R	R	R
1 & 6 Change	R	R	R	R	R	R	R	R	R	R	R	R
Phase 2 & 5	R	R	R	R	R	R	R	R	R	R	R	R
2 & 5 Change	R	R	R	R	R	R	R	R	R	R	R	R
Phase 2 & 6	R	R	R	R	R	R	R	R	R	R	R	R
2 & 6 Change	R	R	R	R	R	R	R	R	R	R	R	R
Phase 3	R	R	R	R	R	R	R	R	R	R	R	R
Phase 3 Change	R	R	R	R	R	R	R	R	R	R	R	R
Phase 7	R	R	R	R	R	R	R	R	R	R	R	R
Phase 7 Change	R	R	R	R	R	R	R	R	R	R	R	R
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

SIGNAL PLAN SHEET 2



MD 45 (YORK ROAD) AT MD 145 (ASHLAND RD.) / HAMPTON INN ENTRANCE

REVISION F CONSULTANT

WALLACE, MONTGOMERY & ASSOCIATES, LLP
CIVIL AND STRUCTURAL ENGINEERS
110 West Road
Suite 300
Towson, Maryland 21204

SCALE N.T.S. DATE 11/19/98 CONTRACT NO. BW996M82

DESIGNED BY _____ COUNTY BALTIMORE
DRAWN BY J.E.S. LOGMILE 03004508.85
CHECKED BY [Signature] T.I.M.S. NO. 0856
F.A.P. NO. N/A TOD NO. 0000

DRAWING NO. TS 2686 - OF SHEET NO. OF

BY: \$USER\$