

PROJECT DESCRIPTION

GENERAL

THIS PHASE OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 45 (YORK ROAD) AND BELLONA AVENUE / MARGATE ROAD TO THE WIDENING OF MD 45. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 45 APPROACHES OPERATING CONCURRENTLY AND THE BELLONA AVENUE/MARGATE ROAD APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE EASTBOUND APPROACH. AT THE COMPLETION OF THE MD 45 WIDENING PROJECT, EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING WILL BE PROVIDED FOR NORTHBOUND AND SOUTHBOUND.

PEDESTRIAN INDICATIONS WILL BE PROVIDED ACROSS THE SOUTH, EAST AND WEST LEGS. ACCESSIBLE PEDESTRIAN SIGNALS WILL BE PROVIDED FOR ALL CROSSWALKS.

CONTROLLER REQUIREMENTS

FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SIX (6) TWO-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS, AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
NONE			

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
585412	900	LF	12 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585424	150	LF	24 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
805160	20	LF	1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810550	2	EA	MICROLOOP PROBE, 500 FT. LEAD IN CABLE
810555	2	EA	MICROLOOP PROBE, 1000 FT. LEAD IN CABLE

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781

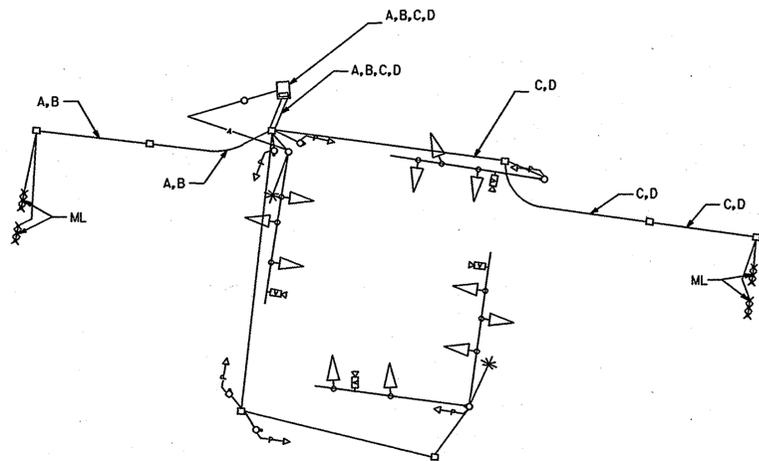
MR. MIKE PASQUARIELLO
DISTRICT UTILITY ENGINEER
PHONE: (410) 321-2841

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM

A,B,C } MICROLOOP PROBE
C,D } LEAD-IN
ML - MICROLOOP PROBE SET



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PHASE 1 + 5	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
1 + 5 CHANGE	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
PHASE 1 + 6	R	R	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
1 + 6 CHANGE	R	R	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 5	R	R	R	R	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
2 + 5 CHANGE	R	R	R	R	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 6	G	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
PHASE 4 + 7	R	R	R	R	R	R	R	G	R	R	DW	DW	DW	DW	DW	DW	DW
4 + 7 CHANGE	R	R	R	R	R	R	R	G	R	R	DW	DW	DW	DW	DW	DW	DW
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 6 ALT.	G	G	G	G	G	R	R	R	R	R	W	W	W	W	DW	DW	DW
PED CLEARANCE	G	G	G	G	G	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW
2 + 6 ALT. CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	W	W	DW
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	DW
4 ALT. CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:
ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

FINAL

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MARYLAND 45 (YORK ROAD) WIDENING
CAVAN DRIVE TO RIDGELY ROAD

GENERAL INFORMATION - MD 45 at Bellona Ave / Margate Rd

SCALE NONE DATE _____ CONTRACT NO. BA7065171

DESIGNED BY _____ COUNTY BALTIMORE
DRAWN BY _____ LOGMILE 03004503.92
CHECKED BY _____ T.I.M.S. NO. _____
F.A.P. NO. SEE TITLE SHEET TOD NO. _____

DRAWING NO. SS-21 OF SS-25 SHEET NO. 89 OF 137

McCormick Taylor
Engineers & Planners
Since 1946

509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

BY: WJWARNER