PROJECT DESCRIPTION

THIS PROJECT INVOLVES MODIFYING THE EXISTING TRAFFIC SIGNAL AT MD 70 (BESTGATE ROAD/ROWE BOULEVARD) AND NORTH BESTGATE ROAD/TIDEWATER COLONY DRIVE TO INCLUDE A PEDESTRIAN CROSSING ON THE EAST APPROACH WITH PEDESTRIAN INDICATIONS WITH PUSHBUTTON. MD 70 (BESTGATE ROAD/ ROWE BOULEVARD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE FULLY-ACTUATED NEMA CONTROLLER WILL BE USED. THE CONTROLLER WILL CONTINUE TO OPERATE IN A SIX-PHASE FULLY-ACTUATED MODE WITH NORTHBOUND TIDEWATER COLONY DRIVE AND SOUTHBOUND NORTH BESTGATE ROAD APPROACHES RUNNING CONCURRENTLY. AN ALTERNATE PEDESTRIAN PHASE WILL OPERATE CONCURRENTLY WITH THE NORTHBOUND TIDEWATER COLONY DRIVE MOVEMENT UPON PEDESTRIAN ACTUATION.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIMBERLY M. TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. JOHN MAYS
UTILITIES ENGINEER
(410) 841-1039

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1013

THE POWER COMPANY REPRESENTATIVE IS:

BALTIMORE GAS AND ELECTRIC COMPANY
MR. HUMBERT GRANNACCINI
7317 PARKWAY DRIVE SOUTH
HANOVER, MD -21076
(410) 859-9472

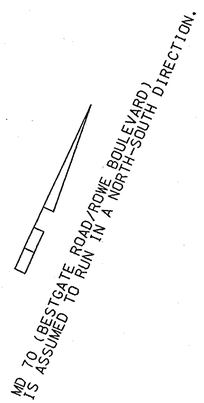
CONTACT PERSONS FOR THE OFFICE OF TRAFFIC AND SAFETY ARE AS FOLLOWS:

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

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

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

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



EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION.
NO EQUIPMENTTO BE FURNISHED BY SHA.

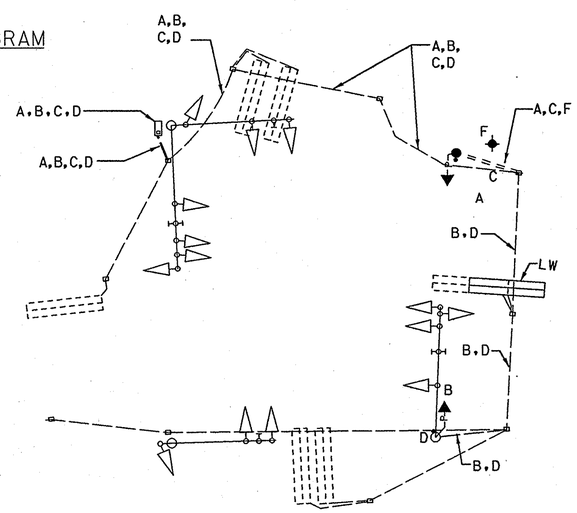
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
203030	1 CY	TEST PIT EXCAVATION.
585462	50 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH.
585620	160 LF	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
585624	50 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE.
801004	1 CY	CONCRETE FOR SIGNAL FOUNDATION.
802145	3 EA	ADJUST EXISTING HANDHOLE
802501	15 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE.
805135	15 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
805160	15 LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
810011	430 LF	LOOP DETECTOR SPLICED TO EXISTING 2 - CONDUCTOR (ALUMINUM SHIELD).
818004	1 EA	10 FOOT BREAKAWAY PEDESTAL POLE AND BASE.
837001	1 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH.
860278	2 EA	12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT.
860282	2 EA	12 INCH PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT.
861105	550 LF	ELECTRICAL CABLE - 2 CONDUCTOR (No 14 AWG).
861106	600 LF	ELECTRICAL CABLE - 3 CONDUCTOR (No 14 AWG).
862102	125 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR).
865001	2 EA	PUSHBUTTON AND R10-4(1) SIGN, 9"X12", "PUSH BUTTON TO CROSS ROWE BOULEVARD ".

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

WIRING DIAGRAM

NOT TO SCALE



WIRING LEGEND

C,D - 2 CONDUCTOR CABLE (NO. 14 AWG)

A,B - 3 CONDUCTOR CABLE (NO. 14 AWG)

F - STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

LW - LOOP WIRE ENCASED IN 1/4 INCH FLEXIBLE TUBING (NO.14 AWG) SPLICED TO EXISTING 2-CONDUCTOR (ALUMINUM SHIELD)

✦ - GROUND ROD 3/4 INCH DIAMETER AND 10 FOOT LENGTH

WIRING NOTE:

1) EXISTING LEAD-IN CABLE FOR LOOP DETECTORS WHICH ARE BEING ABANDONED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

2) EXISTING WIRING NOT DETAILED SHALL REMAIN IN PLACE.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
PHASE 1 & 5	◁G-	◁G-	R	R	◁G-	◁G-	R	R	R	R	R	R	R	R	DW	DW	
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6																
PHASE 1 & 6	◁G-	◁G-	G	G	◁R-	◁R-	R	R	R	R	R	R	R	R	DW	DW	
1 & 6 CHANGE	◁Y-	◁Y-	G	G	◁R-	◁R-	R	R	R	R	R	R	R	R	DW	DW	
PHASE 2 & 5	◁R-	◁R-	R	R	◁G-	◁G-	G	G	R	R	R	R	R	R	DW	DW	
5 CHANGE	◁R-	◁R-	R	R	◁Y-	◁Y-	G	G	R	R	R	R	R	R	DW	DW	
PHASE 2 & 6	◁R-	◁R-	G	G	◁R-	◁R-	G	G	R	R	R	R	R	R	DW	DW	
2 & 6 CHANGE	◁R-	◁R-	Y	Y	◁R-	◁R-	Y	Y	R	R	R	R	R	R	DW	DW	
PHASE 4 & 8	◁R-	◁R-	R	R	◁R-	◁R-	R	R	G	G	G	G	G	G	DW	DW	
4 & 8 CHANGE	◁R-	◁R-	R	R	◁R-	◁R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW	
ALT. PHASE 4	◁R-	◁R-	R	R	◁R-	◁R-	R	R	G	G	G	G	G	G	WK	WK	
PED CLEAR	◁R-	◁R-	R	R	◁R-	◁R-	R	R	G	G	G	G	G	G	FL/DW	FL/DW	
ALT. 4 CHANGE	◁R-	◁R-	R	R	◁R-	◁R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW	
FLASHING OPERATION	FL/ ◁R-	FL/ ◁R-	FL/Y	FL/Y	FL/ ◁R-	FL/ ◁R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	

SGW-2

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 70 (BESTGATE ROAD/ROWE BOULEVARD)
AT NORTH BESTGATE ROAD/TIDEWATER COLONY DRIVE
GENERAL INFORMATION SHEET

DRAWN BY: MP	F.A.P. NO.		TS NO. 3396D-GI	SHEET NO.
CHECKED BY: JL	S.H.A. NO.	AA6165171		
SCALE: NONE	COUNTY:	ANNE ARUNDEL	T.I.M.S. NO. F-560	185 OF 397
DATE: NOVEMBER 2003	LOG MILE:	02007002.06		

PLOTTED: 11:29 AM on Wednesday, October 15, 2003
By: kcsoft\kcmp\kcmp-0\jobs\mdotscan\scan
FILE: m:\200\00181\drawings\g0ims70.dgn