PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT US 50 AND MD 328 IN (EASTON MD.) TALBOT COUNTY.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULL TRAFFIC-ACTUATED MODE WITH EXCLUSIVE PERMISSIVE LEFT TURNS FOR EASTBOUND AND WESTBOUND US 50 AND SIDE STREET SPLIT FOR MD 328. WHEN THE EMITTER IS ACTURATED THE TRAFFIC SIGNAL WILL PRE-EMPT PHASE 3 OR 4. PHASE 3 PRE-EMPTION IS FOR SOUTHBOUND TRAFFIC ON GOLDSBOROUGH STREET AND PHASE 4 PRE-EMPTION IS FOR NORTHBOUND TRAFFIC ON MD 328.

SPECIAL NOTES

UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY MS. SCHERYL BROWN AT (410)787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MS. BROWN WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

EQUIPMENT LISTS

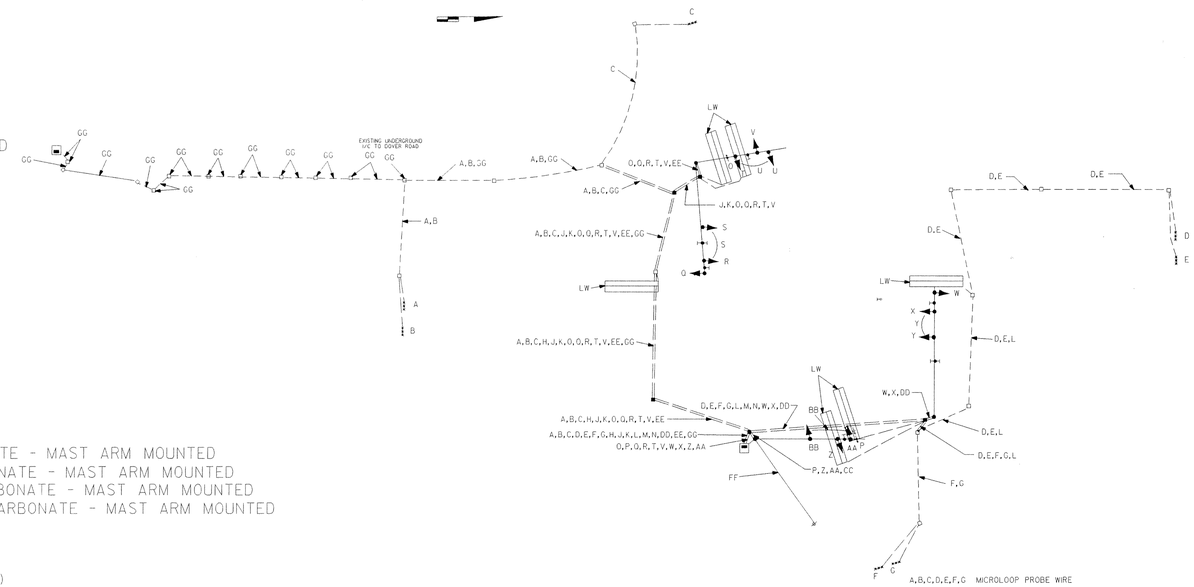
A. EQUIPMENT TO BE FURNISH BY STATE HIGHWAY ADMINISTRATION.

ITEM	QUANTITY	DESCRIPTION
9002	4 EA.	DETECTOR AMPLIFIER 4 - CHANNEL RACK MOUNT
9004	1 EA.	DETECTOR RACK POWER SUPPLY
9014	4 EA.	12" ONE-WAY, THREE - SECTION SIGNAL HEAD (12" R,Y,G) - POLYCARBONATE - MAST ARM MOUNTED
9015	4 EA.	12" ONE-WAY, FOUR - SECTION SIGNAL HEAD (12" R,Y,G,GA) - POLYCARBONATE - MAST ARM MOUNTED
9016	2 EA.	12" ONE-WAY, FIVE - SECTION SIGNAL HEAD (12" R,Y,G,YA,GA) - POLYCARBONATE - MAST ARM MOUNTED
9019	2 EA.	12" ONE-WAY, FIVE - SECTION SIGNAL HEAD (8" R,Y,G,12" YA,GA) - POLYCARBONATE - MAST ARM MOUNTED
9086	1 EA.	CABINET W/TELEMETRY (SYSTEM CABINET) SIZE 6
9087	1 EA.	CONTROLLER ASC II W/TELEMETRY
9089	72 SF.	FLAT SHEET ALUMINUM SIGN
		R10" x 12" (LEFT TURN YIELD ON GREEN BALL) - MAST ARM MOUNTED)
		R3-5L 30" x 36" (LEFT TURN ARROW ONLY)
		D3-2 16" x VARIBLE (GOLDSBOROUGH STREET) - MAST ARM MOUNTED
		D3-2 16" x VARIBLE (MATTEWSTOWN ROAD) - MAST ARM MOUNTED

B. EQUIPMENT TO BE FURNISH AND/OR INSTALL BY CONTRACTOR.

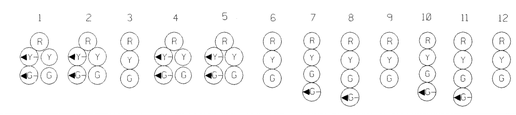
ITEM	QUANTITY	DESCRIPTION
1001	1 EA.	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	1 EA.	TEST PIT EXCAVATION
5002	200 LF.	FURNISH AND INSTALL 6" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
5004	145 LF.	FURNISH AND INSTALL 24" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
5013	140 LF.	REMOVE EXISTING PAVEMENT MARKING - ANY WIDTH
6001	24 SF.	FURNISH AND INSTALL 4" CONCRETE SIDEWALK
8001	13 CY.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8002	4 EA.	GROUT EXISTING POLE BASE
8011	12 EA.	INSTALL SIGNAL HEAD (ANY TYPE)
8012	2 EA.	FURNISH AND INSTALL 3M OPTICOM #521 DETECTOR EYE
8016	3 EA.	FURNISH AND INSTALL MICROLLOP PROBE SET WITH 1000 LEAD-IN
8017	4 EA.	FURNISH AND INSTALL MICROLLOP PROBE SET WITH 500 LEAD-IN
8020	1 EA.	INSTALL CONTROLLER AND CABINET - BASE MOUNTED
8021	1005 LF.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8022	70 LF.	FURNISH AND INSTALL 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8024	70 LF.	FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	150 LF.	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8031	300 LF.	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8030	25 LF.	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	5 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	4 EA.	FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER X FOOT LENGHT
8037	440 LF.	FURNISH AND INSTALL 4 - CONDUCTOR OPTICOM DETECTOR CABLE
8039	2500 LF.	FURNISH AND INSTALL 12 PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)
8040	2955 LF.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)
8044	100 LF.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG)
8045	1950 LF.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO 14 AWG)
8049	400 LF.	FURNISH AND INSTALL NO 6 AWG STRANDED BARE COPPER GROUND WIRE
8050	120 LF.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 AWG - THHN/THWN
8054	72 SF.	INSTALL OVERHEAD SIGN
8058	4 EA.	REMOVE AND DISPOSE OF EXISTING FOUNDATIOIN 12" BELOW GRADE
8059	1 EA.	REMOVAL OF EXISTING CONTROLLER, CABINET AND GALVANIZED SIGNAL STRUCTURE
8060	1 EA.	DELIVERY OF REMOVED CONTROLLER, CABINET AND GALVIZED SIGNAL STRUCTURE
8061	1 EA.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8069	30 LF.	FURNISH AND INSTALL 1" ELECTRICAL CONDUIT - GALVANIZED RISER
8070	1 EA.	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE 3 WIRE SYSTEM)
8083	1 EA.	FURNISH AND INSTALL MAST ARM POLE AND 60' MAST ARM
8084	1 EA.	FURNISH AND INSTALL MAST ARM POLE AND 70' MAST ARM
8085	1 EA.	FURNISH AND INSTALL MAST ARM POLE AND TWIN 50'/60' MAST ARMS

WIRING DIAGRAM



A,B,C,D,E,F,G	MICROLOOP PROBE WIRE
H,J,K,L,M,N	2 CONDUCTOR ALUMINUM SHIELDED CABLE
O,P	ELECTRICAL CABLE - 4 CONDUCTOR OPTICOM DETECTOR CABLE
Q,R,T,V,W,X,Z,AA	ELECTRICAL CABLE - 7 CONDUCTOR (NO 14 AWG)
S,U,Y,BB	ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG)
CC,DD,EE	NO 6 AWG STRANDED BARE COPPER GROUND WIRE
FF	PROPOSED OVERHEAD POWER FEED BY EASTON UTILITIES
GG	12 PAIR COMMUNICATION CABLE, JELLY FILLED (UNDERGROUND)

PHASE CHART



Phase 1 & 5	◀G-R	◀G-R	R	◀G-R	◀G-R	R	R	R	R	R	R	R
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6											
Phase 1 & 6	◀G-G	◀G-G	G	R	R	G	R	R	R	R	R	R
1 Change	◀Y-G	◀Y-G	G	R	R	G	R	R	R	R	R	R
Phase 2 & 5	R	R	R	◀G-G	◀G-G	G	R	R	R	R	R	R
5 Change	R	R	R	◀Y-G	◀Y-G	G	R	R	R	R	R	R
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
Phase 3	R	R	R	R	R	R	◀G-G	◀G-G	G	R	R	R
3 Change	R	R	R	R	R	R	Y	Y	Y	R	R	R
Phase 4	R	R	R	R	R	R	R	R	R	◀G-G	◀G-G	G
4 Change	R	R	R	R	R	R	R	R	R	Y	Y	Y
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

REVISIONS	APPROVALS
	ORIGINAL ON FILE
	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

US 50 AND MD 328

GENERAL INFORMATION SHEET

DRAWN BY: KIM WINKLER	F.A.P. NO.	TS NO. 532-C	SHEET NO.
CHECKED BY:	S.H.A. NO. AW276A58/B38		2 OF 2
SCALE:	COUNTY: TALBOT	T.I.M.S. NO. C 756	
DATE: 1" = 20'	LOG MILE: 2000501115		