PROJECT DESCRIPTION

THIS PROJECT INVOLVES UPGRADING THE EXISTING ICB AT THE INTERSECTION OF US 40 AND LONG BAR HARBOR ROAD TO A FULL COLOR, FULLY ACTUATED SIGNAL. WESTBOUND AND EASTBOUND US 40 SHALL HAVE AN EXCLUSIVE LEFT TURN PHASE. THE EXISTING STRAIN POLES AND POLE MOUNTED CABINET SHALL REMAIN AND BE REUSED. NEW LOOP DETECTORS, SPAN WIRE, SIGNAL HEADS, WIRING, HANDBOXES AND A NEW CONTROLLER SHALL BE INSTALLED.

MAINTENANCE OF TRAFFIC

FOR MAINTENACE OF TRAFFIC SEE PROPOSAL BOOK.

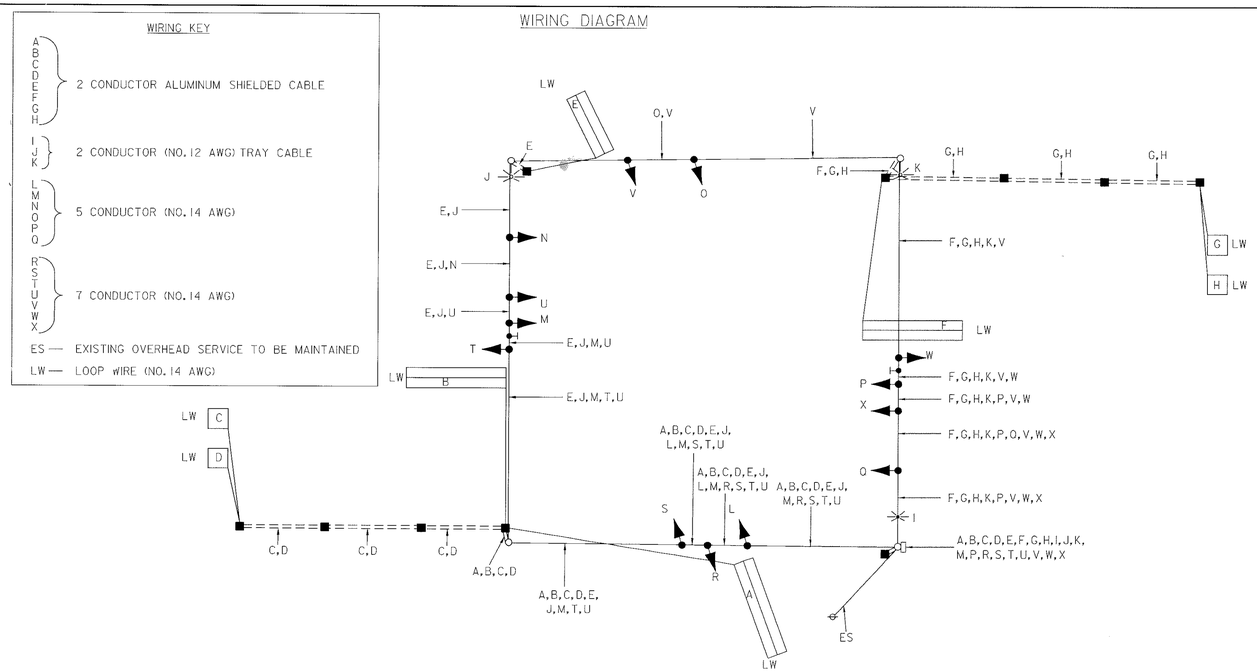
CONSTRUCTION NOTES

1. THE SEPARATE DISCONNECT SWITCHES FOR STREET LIGHTING AND SIGNAL EQUIPMENT SHALL REMAIN.
2. THE CONTRACTOR SHALL TEST PIT FOR EXISTING UTILITIES PRIOR TO INSTALLING ANY CONDUIT AND HANDBOXES.
3. THE EXISTING SIGNAL HEADS AND ELECTRICAL WIRES SHALL NOT BE REMOVED UNTIL THE PROPOSED EQUIPMENT IS INSTALLED AND OPERATIONAL.
4. ALL GROUND MOUNT SIGNS NOT DETAILED IN THE SIGNAL PLAN ARE INCLUDED IN THE PROPOSAL BOOK.
5. 50 ' OF EXTRA SLACK SHALL BE INCLUDED AT THE CABINET FOR ALL WIRING TO ALLOW FOR POSSIBLE FUTURE CHANGES.
6. THE LOOP DETECTORS SHALL BE INSTALLED AFTER ALL GRINDING IS COMPLETE AND BEFORE THE SURFACE COURSE OF ASPHALT IS PLACED.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	R Y G	R Y G	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G
Phase 1 & 5	◄G-	◄G-	R	R	◄G-	◄G-	R	R	R	R	R	R	R
1 & 5 Change	TO PHASE 1 & 6 OR PHASE 2 & 5								R	R	R	R	R
Phase 1 & 6	◄G-	◄G-	G	G	◄R-	◄R-	R	R	R	R	R	R	R
1 Change	◄Y-	◄Y-	G	G	◄R-	◄R-	R	R	R	R	R	R	R
Phase 2 & 5	◄R-	◄R-	R	R	◄G-	◄G-	G	G	R	R	R	R	R
5 Change	◄R-	◄R-	R	R	◄Y-	◄Y-	G	G	R	R	R	R	R
Phase 2 & 6	◄R-	◄R-	G	G	◄R-	◄R-	G	G	R	R	R	R	R
2 & 6 Change	◄R-	◄R-	Y	Y	◄R-	◄R-	Y	Y	R	R	R	R	R
Phase 4 & 8	◄R-	◄R-	R	R	◄R-	◄R-	R	R	G	G	G	G	G
4 & 8 Change	◄R-	◄R-	R	R	◄R-	◄R-	R	R	Y	Y	Y	Y	Y
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

WIRING DIAGRAM



EQUIPMENT LIST "A"
EQUIPMENT TO BE FURNISHED BY S.H.A.

ITEM NO.	SPEC. NO.	CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
9002	816	900000	A SYSTEM READY SHA TRAFFIC SIGNAL CONTROLLER - EIGHT PHASE, FULLY ACTUATED, WITH 2-4 CHANNEL DETECTOR AMPLIFIERS, RACK MOUNT.	EA	1
9003	813	900000	SHEET ALUMINUM SIGN WITH SPAN WIRE MOUNT HARDWARE 2 - R10-5 (24"X30")	SF	10
9004	813	900000	SHEET ALUMINUM SIGN WITH HARDWARE FOR BANDING TO STRAIN POLE 1 - M3-4 (30"X15"), M1-4 (36"X36"), M6-1 (30"X24"), WITH 42"X78" BACK SHEET	SF	23
9005	814	960002	12 INCH ONE-WAY, THREE SECTION (R,Y,G) SIGNAL HEAD WITH SPAN WIRE MOUNTING HARDWARE	EA	9
9006	814	960003	12 INCH ONE-WAY, THREE SECTION (RA,YA,GA) SIGNAL HEAD WITH SPAN WIRE MOUNTING HARDWARE	EA	4
9007	813	973023	SHEET ALUMINUM SIGN 2 - W3-3 (48"X48") 1 - W3-3 (36"X36") 1 - M3-2 (24"X12"), M1-4 (24"X24"), M6-1 (21"X15")	SF	68

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

ITEM NO.	SPEC. NO.	CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
5009	553	585409	5" YELLOW REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	LF	170
5010	553	585416	24" WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	LF	160
8002	805	800000	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	1050
8003	813	800000	INSTALL POLE MOUNTED SHEET ALUMINUM SIGN	SF	23
8004	813	800000	RELOCATE EXISTING SPAN MOUNT SIGNS AND HARDWARE	EA	2
8005	813	800000	INSTALL SHEET ALUMINUM SIGN WITH SPAN WIRE MOUNT HARDWARE	SF	10
8006	800-SP	800000	REMOVE EXISTING EQUIPMENT (SIGNAL HEADS, SPAN WIRE, ELECTRICAL WIRES)	LS	1
8007	800-SP	800000	REMOVE EXISTING CONTROLLER FOR SALVAGE TO SHA	EA	1
8008	816	800000	INSTALL CONTROLLER - POLE MOUNTED	EA	1
8009	805	800000	FURNISH AND INSTALL 2" WEATHERHEAD	EA	4
8011	812	801106	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X6"	LF	130
8014	824	801711	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF	9
8016	805	805011	FURNISH AND INSTALL 1 INCH ELECTRICAL CONDUIT GALVANIZED SLEEVE	LF	110
8018	811	811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	10
8019	813	813014	INSTALL GROUND MOUNTED SIGN	SF	68
8020	806	831010	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE	EA	1
8021	814	860002	INSTALL 12 INCH, 1 WAY, 3 SECTION (R,Y,G) SIGNAL HEAD - SPAN MOUNT	EA	9
8022	814	860003	INSTALL 12 INCH, 1 WAY, 3 SECTION (RA,YA,GA) SIGNAL HEAD - SPAN MOUNT	EA	4
8023	810	861104	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)	LF	3500
8024	810	861107	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)	LF	700
8025	810	861108	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)	LF	1450
8026	810	861116	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG)	LF	650
8027	810	862101	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)	LF	2400
8028	815	862102	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	700
8029	808	866104	FURNISH AND INSTALL 20' LIGHTING ARM ON SIGNAL STRUCTURE	EA	1
8030	819	869102	FURNISH AND INSTALL STEEL SPAN WIRE - 3/8" DIAMETER	LF	525

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

REVISION (A)

PB 100 YEARS

US 40 AND LONG BAR HARBOR ROAD
(GENERAL INFORMATION PLAN)

DRAWN BY: BRUCE THOMPSON	F.A.P. NO. CMG-STPG-000S(134)	TS NO. 3361A	SHEET NO.
CHECKED BY: D. DODA	S.H.A. NO. AW-454-501-485		
SCALE: NONE	COUNTY: HARFORD	T.I.M.S. NO. D-164	2 OF 2
DATE: 8-14-93	LOG MILE: 12004006.85		

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