F H W A PROJECT NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

I. General

This project involves the modification to the existing traffic control signal at the intersection of MD 140 and McDonogh Rd./Cradock Lane in Baltimore County. The modifications involve installing exclusive/permissive left-turn phasing for the side street movements and a right-turn overlap for eastbound McDonogh Road onto Southbound MD 140.

MD 140 runs in a north-south direction.

II. Intersection Operation

The controller will operate in a NEMA eight-phase, full-traffic-actuated mode. The eastbound right-lane loop detector shall be wired to operate concurrently with the MD 140 left-turn.

EQUIPMENT LISTS

A. Equipment to be supplied by S.H.A.

ITEM NO.	QUANTITY	DESCRIPTION
9000	3 each	12" one-way, five-section (R,Y,G,GA,YA) signal head - mast arm mounted
9000	4 each	8"/12" one-way, five-section (8" R,Y,G,12" YA,GA) signal head - mast arm mounted
9000	104 S.F.	Signs
		2 each — R10-12 (36" x 42") sign, "LEFT TURN YIELD ON GREEN BALL' - mast arm mounted
		1 each — Route marker associated assembly (3 X 5) - STANDARD SIZE (SOUTH) M3-2, (140) M1-6, (STRAIGHT ARROW) M6-1 - shielded assembly on black background with banding hardware for pole mount
		1 each — Route marker associated assembly (3 X 5) - STANDARD SIZE (NORTH) M3-2, (140) M1-6, (STRAIGHT ARROW) M6-1 - shielded assembly on black background with banding hardware for pole mount
		1 each — Route marker associated assembly (48" X 75") - EXPRESSWAY SIZE (SOUTH) M3-2, (140) M1-6, (STRAIGHT ARROW) M6-1 - shielded assembly on black background with banding hardware for pole mount
		1 each — Route marker associated assembly (48" X 75") - EXPRESSWAY SIZE (NORTH) M3-2, (140) M1-6, (STRAIGHT ARROW) M6-1 - shielded assembly on black background with banding hardware for pole mount
*	2 each	NEMA load switch

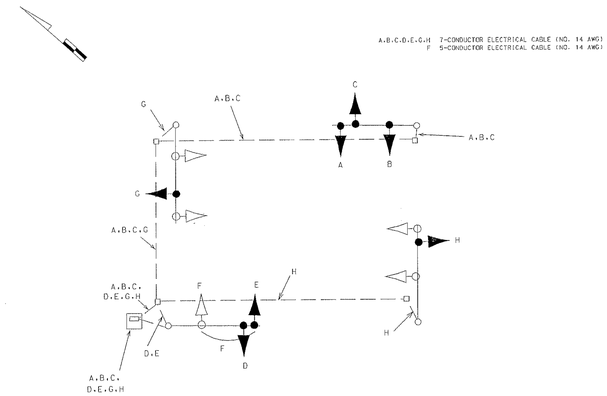
* SHA Shop to install this equipment

EQUIPMENT LISTS

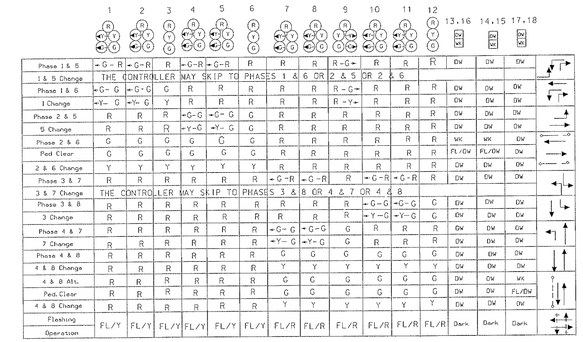
B. Equipment to be furnished and installed by the Contractor.

ITEM NO.	QUANTITY	DESCRIPTION
8003	1 each	Jackhammer 4" elbow into base of cabinet
8013	7 each	Installation of signal heads
8037	10 L.F.	4" electrical conduit - PVC - trenched
8057	25 L.F.	5-conductor electrical cable (No. 14 AWG)
8058	1520 L.F.	7-conductor electrical cable (No. 14 AWG)
8067	80 S.F.	Install ground mounted sign
8068	24 S.F.	Install overhead sign

WIRING DIAGRAM



PHASE CHART



REVISIONS
B INSTALL E/P LT'S FOR EB MCDONOGH RD. AND WB CRADOCK LN/ RT OVERLAP FOR EB MCDONOGH RD. 7/95
MEL
A REPLACE SEALED LOOP DETECTOR SHA NO. AW-579-501-085 12/93 FAP NO. AC-CMO-STBG-0005(140)E

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

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 140 AT MCDONOGH RD./
CRADOCK LANE

DATE 1/08/85

DRAWN BY: T. ZAYDEL	F.A.P. NO.	PLAN SHEET NO.: 2101 G1	SHEET NO.
CHECK BY:	S.H.A. NO. BW-822-801-412		
SCALE: 1"= 20'	COUNTY BALTIMORE		2 OF 2