MD 140 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN EXCLUSIVE/PERMISSIVE LEFT TURN FOR SOUTHBOUND MD 140 AT THE INTERSECTION OF MD 140 AND SUDBROOK LANE IN BALTIMORE COUNTY.
MD 140 RUNS IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

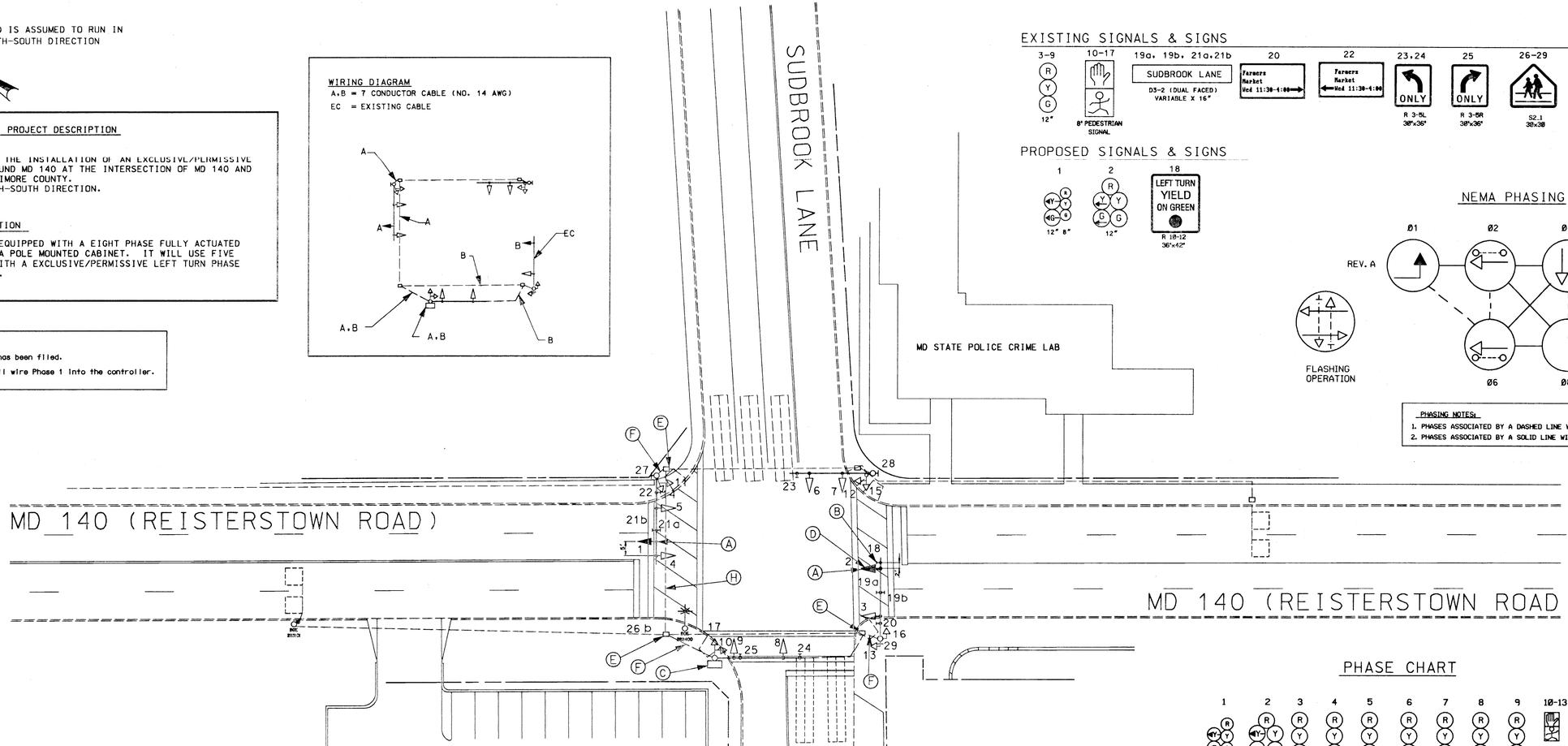
THIS INTERSECTION IS EQUIPPED WITH A EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A POLE MOUNTED CABINET. IT WILL USE FIVE PHASES OUT OF EIGHT WITH A EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR SOUTHBOUND MD 140.

GENERAL NOTES:

1. The original TS-3021 has been filed.
2. S.H.A. Signal Shop will wire Phase 1 into the controller.

WIRING DIAGRAM

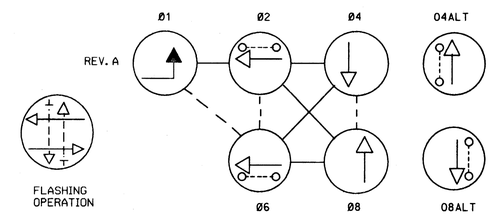
A,B = 7 CONDUCTOR CABLE (NO. 14 AWG)
EC = EXISTING CABLE



EXISTING SIGNALS & SIGNS

PROPOSED SIGNALS & SIGNS

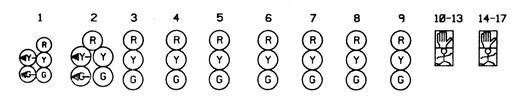
NEMA PHASING



PHASING NOTES:

1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

PHASE CHART



	1	2	3	4	5	6	7	8	9	10-13	14-17
Phase 1 & 6	G-G	G-G	G	R	R	R	R	R	R	DW	DW
1 Change	Y-G	Y-G	G	R	R	R	R	R	R	DW	DW
Phase 2 & 6	G	G	G	G	G	R	R	R	R	WK	DW
Ped. Clear	G	G	G	G	G	R	R	R	R	FL/DW	DW
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
Phase 4 & 8	R	R	R	R	R	G	G	G	G	DW	DW
4 & 8 Change	R	R	R	R	R	Y	Y	Y	Y	DW	DW
4 & 8 Alt.	R	R	R	R	R	G	G	G	G	DW	WK
Ped. Clear	R	R	R	R	R	G	G	G	G	DW	FL/DW
4 & 8 Alt. Change	R	R	R	R	R	Y	Y	Y	Y	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

CONSTRUCTION DETAILS

A. INSTALL THE PROPOSED SIGNAL HEAD ON THE EXISTING MAST ARM.
B. INSTALL SIGN ON EXISTING MAST ARM.
C. CONTROLLER TO BE MODIFIED TO ADD AN EXCLUSIVE/PERMISSIVE LEFT TURN ON SOUTHBOUND MD 140(PHASE 1).
D. REMOVE EXISTING SIGNAL.
E. USE EXISTING HANDHOLE.
F. USE EXISTING CONDUIT.

EQUIPMENT TO BE SUPPLIED AND INSTALLED BY THE ADMINISTRATION

QUANTITY		DESCRIPTION
1	EA	COMBINATION 8", 12" ONE WAY FIVE (5) SECTION (8" R,Y,G, 12" YA,GA) SIGNAL HEAD, MAST ARM MOUNTED HARDWARE
1	EA	12" ONE WAY FIVE (5) SECTION (R,Y,YA,G,GA) SIGNAL HEAD, MAST ARM MOUNTED HARDWARE
10.5	SF	1 EACH R10-12 SIGN, 36" x 42", MAST ARM MOUNTED HARDWARE
510	LF	FURNISH & INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
1	EA	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT

UTILITY LEGEND

—G—G—	GAS MAIN
—W—W—	WATER MAIN
—S—S—	SEWER MAIN
—E—E—	ELECTRIC CABLES
—A—A—	AERIAL CABLES
—T—T—	TELEPHONE CABLES

REVISIONS	APPROVALS
7-13-99 ADD EXCLUSIVE/PERMISSIVE LEFT TURN FOR SOUTHBOUND MD 140	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

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

MD 140 (REISTERSTOWN ROAD) AND SUDBROOK LANE

DRAWN BY: WRS	F.A.P. NO.	TS NO. 3021A	SHEET NO.
CHECKED BY:	S.H.A. NO.		1 OF 1
SCALE: 1"= 20'	COUNTY: BALTIMORE	T.I.M.S. NO. D436	
DATE: 8-16-89	LOG MILE:		

D:\10\VARIANT\140\SHEETS\SUD.DGN JUL 13, 1999 09:49:31