F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD		1	1

EXISTING SIGNALS & SIGNS

PROPOSED SIGNALS & SIGNS

PHASE CHART

	1	2	3	4	5	6	7	8
Phase 1 & 6	G-G	G-G	G	R	R	R	R	R
1 Change	Y-G	Y-G	G	R	R	R	R	R
Phase 2 & 6	G	G	G	G	G	R	R	R
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R
Phase 4	R	R	R	R	R	G	G	G
4 Change	R	R	R	R	R	Y	Y	Y
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R

WIRING DIAGRAM

A-C = 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
D = 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
E = 2 CONDUCTOR (ALUMINUM SHIELDED) CABLE
LW = LOOP WIRE

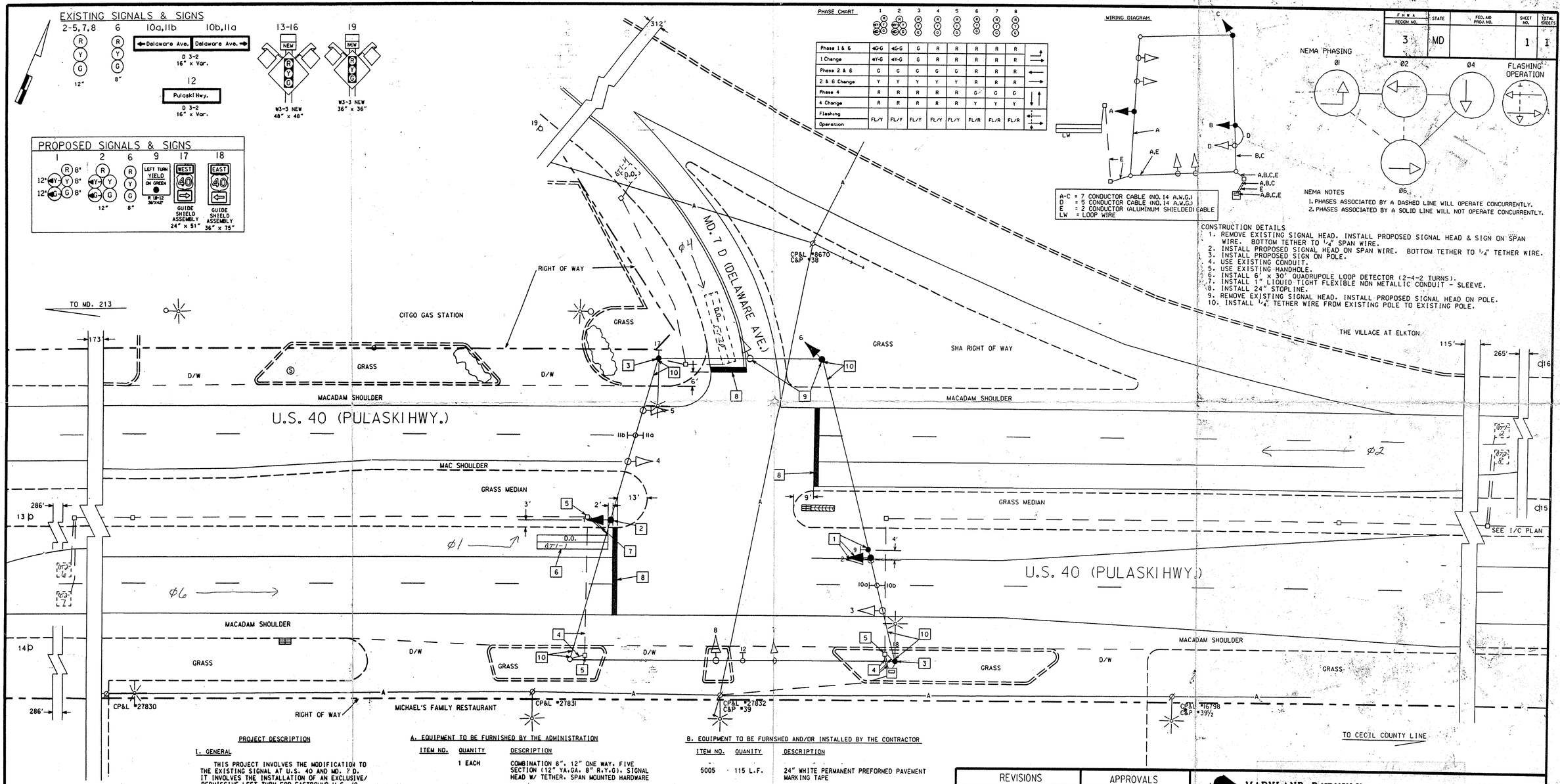
NEMA PHASING

NEMA NOTES

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

CONSTRUCTION DETAILS

1. REMOVE EXISTING SIGNAL HEAD. INSTALL PROPOSED SIGNAL HEAD & SIGN ON SPAN WIRE. BOTTOM TETHER TO 1/4" SPAN WIRE.
2. INSTALL PROPOSED SIGNAL HEAD ON SPAN WIRE. BOTTOM TETHER TO 1/4" TETHER WIRE.
3. INSTALL PROPOSED SIGN ON POLE.
4. USE EXISTING CONDUIT.
5. USE EXISTING HANDHOLE.
6. INSTALL 6' x 30' QUADRUPOLE LOOP DETECTOR (2-4-2 TURNS).
7. INSTALL 1" LIQUID TIGHT FLEXIBLE NON METALLIC CONDUIT - SLEEVE.
8. INSTALL 24" STOPLINE.
9. REMOVE EXISTING SIGNAL HEAD. INSTALL PROPOSED SIGNAL HEAD ON POLE.
10. INSTALL 1/4" TETHER WIRE FROM EXISTING POLE TO EXISTING POLE.



PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING SIGNAL AT U.S. 40 AND MD. 7 D. IT INVOLVES THE INSTALLATION OF AN EXCLUSIVE/ PERMISSIVE LEFT TURN FOR EASTBOUND U.S. 40.

II. INTERSECTION OPERATION

THE INTERSECTION IS EQUIPPED WITH AN EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET. THE CONTROLLER WILL USE FOUR PHASES OUT OF EIGHT WITH AN EXCLUSIVE/ PERMISSIVE LEFT TURN PHASE FOR EASTBOUND U.S. 40.

A. EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION

ITEM NO.	QUANITY	DESCRIPTION
	1 EACH	COMBINATION 8", 12" ONE WAY, FIVE SECTION (12" YA,GA, 8" R,Y,G), SIGNAL HEAD W/ TETHER, SPAN MOUNTED HARDWARE
	1 EACH	12" ONE WAY, FIVE SECTION (R,YA,GA,Y,G) SIGNAL HEAD W/ TETHER, SPAN MOUNTED HARDWARE
	1 EACH	8" ONE WAY, THREE SECTION (R,Y,G) SIGNAL HEAD, POLE MOUNTED HARDWARE
	37.8 S.F.	
	1 EACH	R10-12 SIGN, "LEFT TURN YIELD ON GREEN (BALL)", 36" x 42", SPAN MOUNTED HARDWARE
	1 EACH	GUIDE SHIELD ASSEMBLY SIGN, "WEST, U.S. 40, (RIGHT ARROW)", 24" x 51", POLE MOUNTED HARDWARE
	1 EACH	GUIDE SHIELD ASSEMBLY SIGN, "EAST, U.S. 40, (LEFT ARROW)", 36" x 75", POLE MOUNTED HARDWARE

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

ITEM NO.	QUANITY	DESCRIPTION
5005	115 L.F.	24" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
8010	270 L.F.	F & I 1/4" SPAN WIRE
8011	3 EACH	INSTALL SIGNAL HEAD
8022	115 L.F.	F & I SAW CUT FOR SIGNAL (LOOP DETECTOR)
8024	10 L.F.	F & I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8043	300 L.F.	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8044	315 L.F.	F & I ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED) CABLE
8047	30 L.F.	F & I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8048	570 L.F.	F & I ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8056	27.3 S.F.	INSTALL GROUND MOUNTED SIGN
8057	10.5 S.F.	INSTALL OVERHEAD MOUNTED SIGN

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

C. AS BUILT: INSTALLED E/P L.T. FOR EASTBOUND U.S. 40 SHA NO. CE-385T-926-203					
B. UPGRADE EXISTING FLASHER TO 3-PHASE FULL-ACTUATED SIGNAL SHA NO. CE-T05-501-285 12-1-87					
RRZ	EMM	DJD	DAZ	BRK	TH
A AS BUILT 7-12-83					
JPT					

APPROVALS

ASST. DIVISION CHIEF, TEDD
ORIGINAL

ASST. DISTRICT ENGINEER, TRAFFIC
ON

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
FILE

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND D 07D00702.51 ADMINISTRATION
Offlc MD 7D (DELAWARE AVE.) y
@ US 40 (PULASKI HWY.)
TRAFFIC ENGI CECIL COUNTY N DIVISION

U.S. 40 (PULASKI HWY) & MD. 7 D (DELAWARE AVE.)

SIGNAL #07D00700.00 DATE 7-12-83

DRAWN BY: LES TOWNSEND	F.A.P. NO. T-8003 (3)	PLAN SHEET NO.: TS-266 C	SHEET NO. 1 OF 1
DES. BY: LES TOWNSEND	S.H.A. NO. CC-543-276		
CHECK BY:	COUNTY CECIL		
SCALE: 1" = 20'			

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