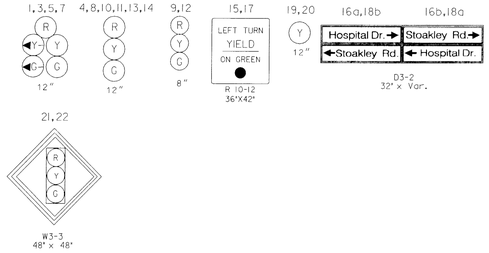
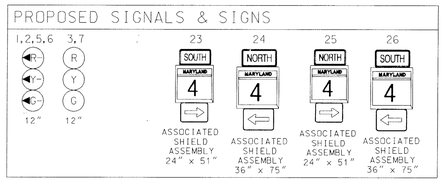
F H WA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.			

EXISTING SIGNALS & SIGNS



PROPOSED SIGNALS & SIGNS



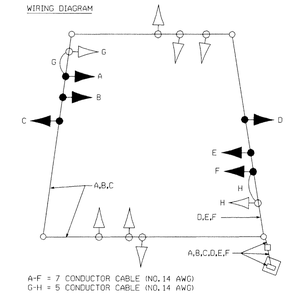
A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM NO.	QUALITY	DESCRIPTION
	4 EACH	12" ONE WAY, THREE SECTION (RA,YA,GA) SIGNAL HEAD, SPAN MOUNTED HARDWARE
	2 EACH	12" ONE WAY, THREE SECTION (R,Y,G) SIGNAL HEAD, SPAN MOUNTED HARDWARE
	54.5 S.F.	
	1 EACH	ASSOCIATED SHIELD ASSEMBLY SIGN, "NORTH, MARYLAND 4, (RIGHT ARROW)", 24" x 51", MAST ARM POLE MOUNTED HARDWARE
	1 EACH	ASSOCIATED SHIELD ASSEMBLY SIGN, "SOUTH, MARYLAND 4, (RIGHT ARROW)", 24" x 51", MAST ARM POLE MOUNTED HARDWARE
	1 EACH	ASSOCIATED SHIELD ASSEMBLY SIGN, "NORTH, MARYLAND 4, (LEFT ARROW)", 36" x 75", MAST ARM POLE MOUNTED HARDWARE
	1 EACH	ASSOCIATED SHIELD ASSEMBLY SIGN, "SOUTH, MARYLAND 4, (LEFT ARROW)", 36" x 75", MAST ARM POLE MOUNTED HARDWARE

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

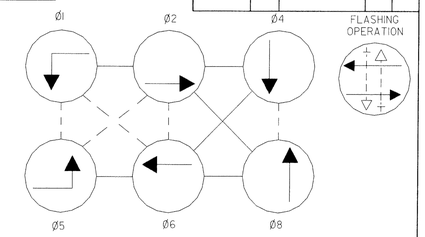
ITEM NO.	QUALITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8011	6 EACH	INSTALL SIGNAL HEAD
8047	60 L.F.	F & I ELECTRICAL CABLE - 5-CONDUCTOR CABLE (NO. 14 AWG)
8048	1,330 L.F.	F & I ELECTRICAL CABLE - 7-CONDUCTOR CABLE (NO. 14 AWG)
8057	54.5 S.F.	INSTALL OVERHEAD SIGN

WIRING DIAGRAM



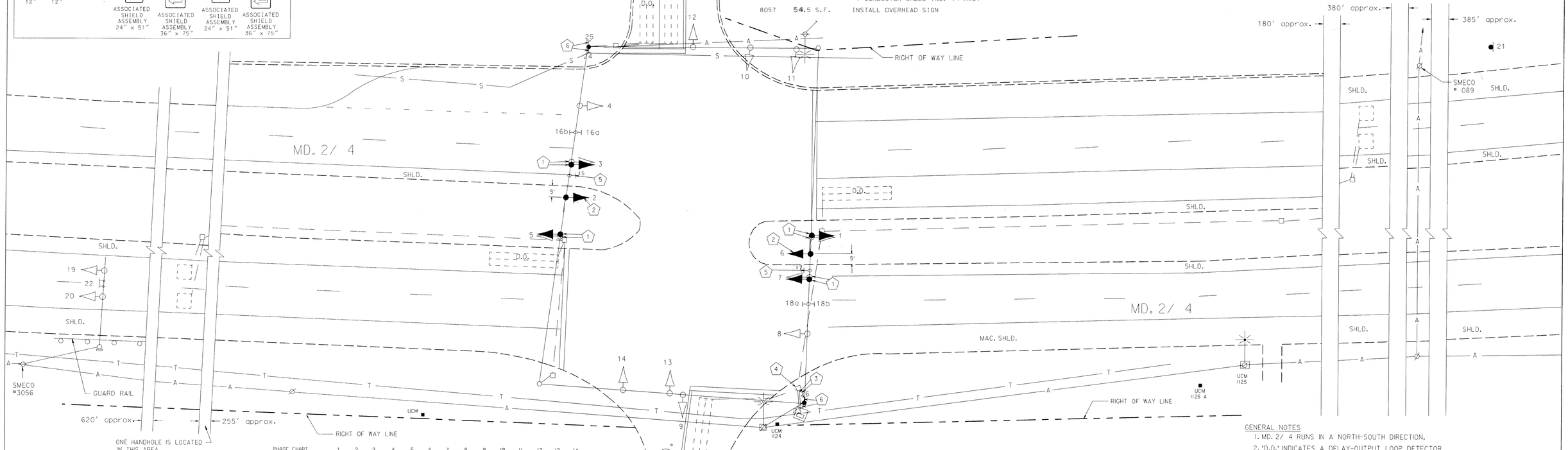
A-F = 7 CONDUCTOR CABLE (NO.14 AWG)
G-H = 5 CONDUCTOR CABLE (NO.14 AWG)

NEMA PHASE



NEMA NOTES:

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



PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF EXCLUSIVE LEFT TURNS FOR NORHTBOUND. AND SOUTHBOUND MD. 2/ 4. MD 2/ 4 RUNS IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION IS EQUIPPED WITH AN EIGHT PHASE CONTROLLER HOUSED IN A BASE MOUNTED CABINET. THE CONTROLLER WILL USE SIX PHASES OUT OF EIGHT WITH AN EXCLUSIVE LEFT TURN PHASE FOR NORTHBOUND. AND SOUTHBOUND MD. 2/ 4.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Phase 1 & 5	G-	G-	R	R	G-	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	R-	R-	R	R	R	R	R	R	R	R
1 Change	Y-	Y-	G	G	R-	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	R
5 Change	R-	R-	R	R	Y-	Y-	G	G	R	R	R	R	R	R
Phase 2 & 6	R-	R-	G	G	R-	R-	G	G	R	R	R	R	R	R
2 & 6 Change	R-	R-	Y	Y	R-	R-	Y	Y	R	R	R	R	R	R
Phase 4 & 8	R-	R-	R	R	R-	R-	R	R	G	G	G	G	G	G
4 & 8 Change	R-	R-	R	R	R-	R-	R	R	Y	Y	Y	Y	Y	Y
Flashing Operation	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

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

CONSTRUCTION NOTES:

1. REMOVE EXISTING SIGNAL HEAD. INSTALL PROPOSED SIGNAL HEAD.
2. INSTALL PROPOSED SIGNAL HEAD.
3. USE EXISTING CONDUIT.
4. USE EXISTING HANDHOLE.
5. REMOVE EXISTING SIGN.
6. INSTALL SIGN ON EXISTING SIGNAL POLE.

GENERAL NOTES

1. MD. 2/ 4 RUNS IN A NORTH-SOUTH DIRECTION.
2. 'D.O.' INDICATES A DELAY-OUTPUT LOOP DETECTOR.
3. THIS IS REVISION 'G' TO THE ORIGINAL CONTRACT C 319X-000-585, DATED 4/88.

SIGNAL NO. 04000221.52

REVISIONS						
E	INSTALL H.U.B.'S ON N/B & S/B MD. 2/ 4 S.H.A. NO.					08/89
W/M	E.R.S.	D.A.Z.	E.T.P.		T.H.	
F.	REMOVED N/B MD. 2/ 4 H.U.B.					04-07-96
D.J.D.						
G	10/96 - AS BUILT: INSTALL EXCLUSIVE L.T.'S N/B & S/B MD. 2/ 4 S.H.A. NO. AW-104-501-585					
D	AS BUILT					08/89
W/M						

APPROVALS

CHIEF, SIGNAL DESIGN SECTION — ORIGINAL

ASST. DISTRICT ENGINEER, TRAFFIC — ON FILE

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

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

MD. 2/ 4 AND STOAKLEY RD./ HOSPITAL DRIVE

DATE: 04/88

DRAWN BY: Robert Ligon	F.A.P. NO.	PLAN SHEET NO.	SHEET NO.
DES. BY: Robert Ligon	S.H.A. NO. C 319X-000-585	TS-1260 G	1 OF 1
CHK. BY:	COUNTY: CALVERT CO.		
SCALE: 1" = 20'			

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