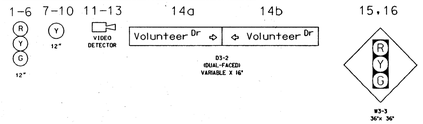
EXISTING SIGNALS & SIGNS

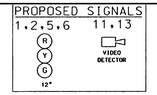
1-6 7-10 11-13 14a 14b 15.16



MD 108 RUNS IN A EAST-WEST DIRECTION.

PROPOSED SIGNALS

1,2,5,6 11,13

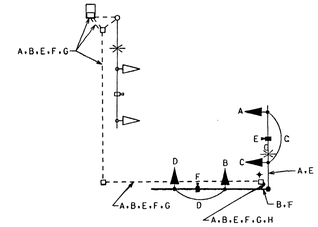


CONSTRUCTION DETAILS

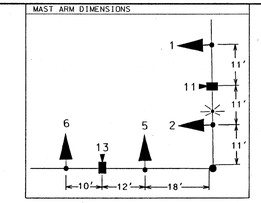
A. INSTALL THE PROPOSED 27' STEEL MAST ARM POLE W/ TWIN MAST ARMS (40' & 50' RESPECTIVELY), SIGNAL HEADS (4), VIDEO CAMERAS (2), 15' LIGHTING ARM, AND LUMINAIRE ON THE EXISTING FOUNDATION.
B. USE THE EXISTING CONDUIT.
C. USE THE EXISTING HANDHOLE.
D. ADJUST THE EXISTING SIGNAL HEADS ON THE EXISTING MAST ARM.

WIRING DIAGRAM

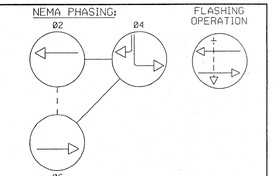
A-B = 7-CONDUCTOR CABLE (NO. 14 AWG)
C-D = 5-CONDUCTOR CABLE (NO. 14 AWG)
E-F = 500' VIDEO CABLE TO CONTROLLER
G = 2-CONDUCTOR CABLE (NO. 12 AWG) - T/C
H = NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
+ = EXISTING GROUND ROD



MAST ARM DIMENSIONS



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.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
*	1 EACH	27' MAST ARM POLE W/ TWIN MAST ARMS (50' & 40' RESPECTIVELY)
*	1 EACH	15' BRACKET ARM FOR SIGNAL STRUCTURE

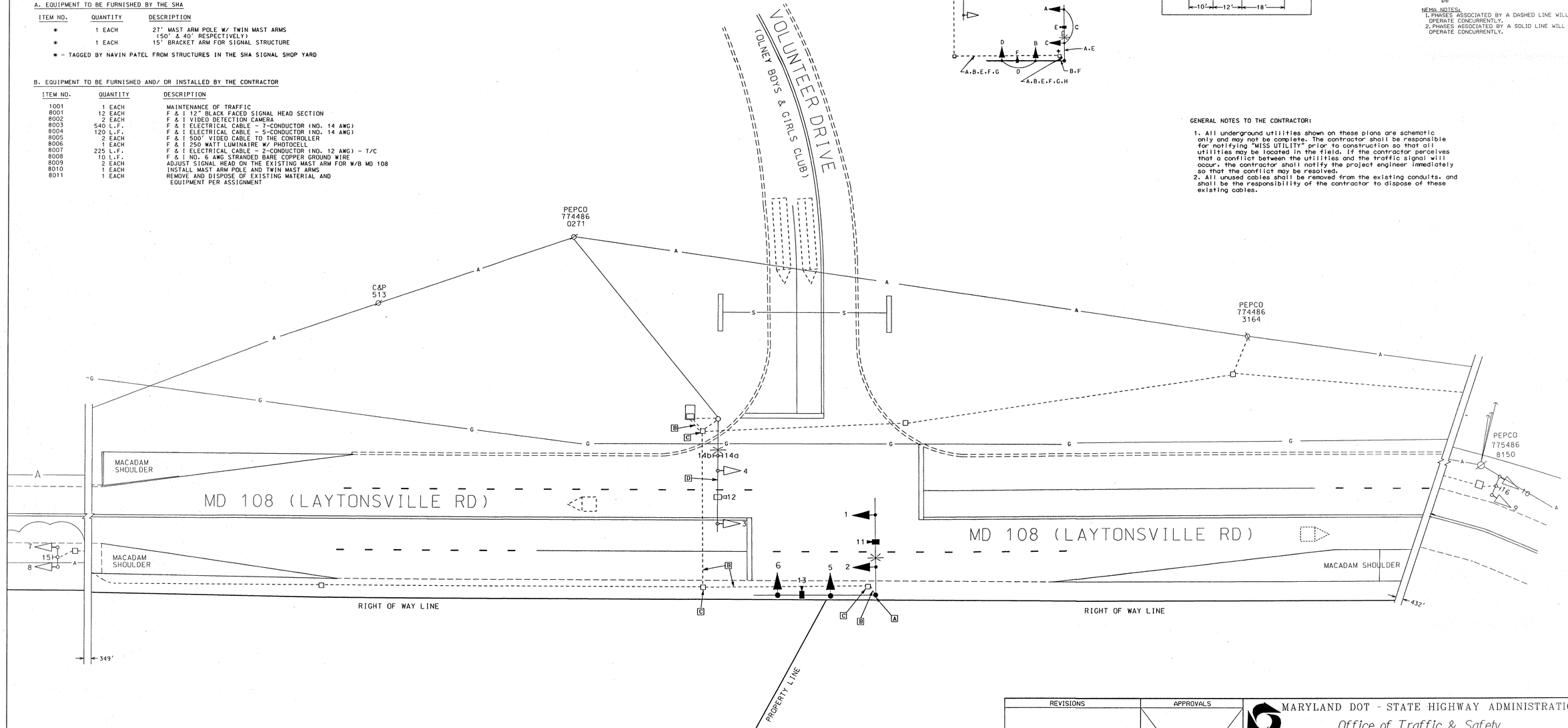
* - TAGGED BY NAVIN PATEL FROM STRUCTURES IN THE SHA SIGNAL SHOP YARD

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8001	12 EACH	F & I 12" BLACK FACED SIGNAL HEAD SECTION
8002	2 EACH	F & I VIDEO DETECTION CAMERA
8003	540 L.F.	F & I ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
8004	120 L.F.	F & I ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
8005	2 EACH	F & I 500' VIDEO CABLE TO THE CONTROLLER
8006	1 EACH	F & I 250 WATT LUMINAIRE W/ PHOTOCELL
8007	225 L.F.	F & I ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) - T/C
8008	10 L.F.	F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8009	2 EACH	ADJUST SIGNAL HEAD ON THE EXISTING MAST ARM FOR W/B MD 108
8010	1 EACH	INSTALL MAST ARM POLE AND TWIN MAST ARMS
8011	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT

GENERAL NOTES TO THE CONTRACTOR:

1. All underground utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying "MISS UTILITY" prior to construction so that all utilities may be located in the field. If the contractor perceives that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.
2. All unused cables shall be removed from the existing conduits, and shall be the responsibility of the contractor to dispose of these existing cables.



PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

MR. LEE STARKLOFF
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7318

MR. RALEIGH WEDLEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
PHONE: (301) 513-7350

MR. RICHARD DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
D	STORM DRAIN

REVISIONS	APPROVALS
B. 02/2003 - REBUILT E/B MAST ARM POLE W/ TWIN MAST ARMS THAT WAS HIT (INSURANCE) SHA NO. 27861T15002	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
A. 10/3/2002 - ADD HIB'S:	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
SHA NO. R.R.J. D.A.J. R.K.K. J.H.	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL PLAN ON FILE

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

MD 108 (Laytonsville Road) and Volunteer Drive (Olney Boys and Girls Club)
OLNEY, MARYLAND

DRAWN BY: D.H. of STS	F.A.P. NO.	T.S. NO. TS-4189 B	SHEET NO.
CHECKED BY: R.R. Zaborski of STS	S.H.A. NO.		
SCALE: 1" = 20'	COUNTY MONTGOMERY	T.I.M.S. NO. F678	1 OF 1
DATE: 10-01-2002	LOG MILE 15010812.11		