

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a mast arm Traffic Control Signal at the intersection of MD 144 (Frederick Rd) and Folly Quarter Rd / John Bernard Dr in Howard County. Video detection cameras shall be installed for the Folly Quarter Rd / John Bernard Dr approaches. MD 144 (Frederick Rd) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA four-phase, fully-actuated mode, with the MD 144 (Frederick Rd) approaches running concurrently. The Folly Quarter Rd / John Bernard Dr approaches shall also run concurrently.
- A full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.
- All underground and overhead 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.
- Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

The contact persons for District #7 are as follows:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: (310) 624-8141

Mr. Sue Palmer
Assistant District Engineer - Maintenance
Phone: (310) 624-8105

Ms Andrea Abend
District Engineer - Utility
Phone: (301) 624-8116

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Chief, Signal Operations Section
410-787-7652

Mr. Sonny Bailey
Chief Sign Shop
410-787-7676

The power company representative is:
Baltimore Gas and Electric
7317 Parkway Drive South
Hanover, MD 21076
410-850-4620

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

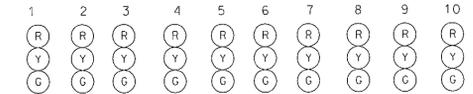
ITEM #	QUANTITY	ITEM DESCRIPTION
9044	1 EA	CONTROLLER CABINET, SIZE "S" FOR UNINTERRUPTABLE POWER SUPPLY SYSTEM
9570	90 SF	SHEET ALUMINUM SIGN-GROUND MOUNTED - 3 EA 36"x36" W3-3 SIGNAL AHEAD SYMBOL WITH FLAGS - 2 EA 84"x36" D3-2(2) STREET NAME SIGN "NEXT SIGNAL" - 1 EA 36"x36" W1-2(R) CURVE WARNING SIGN

9571	95 SF	SHEET ALUMINUM SIGN-MAST ARM MOUNTED - 2 EA 30"x51" ASSOCIATED SHIELD ASSEMBLY - 2 EA 48"x75" ASSOCIATED SHIELD ASSEMBLY - 2 EA 108"x16" D-3(1) DUAL FACED STREET NAME SIGN
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B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

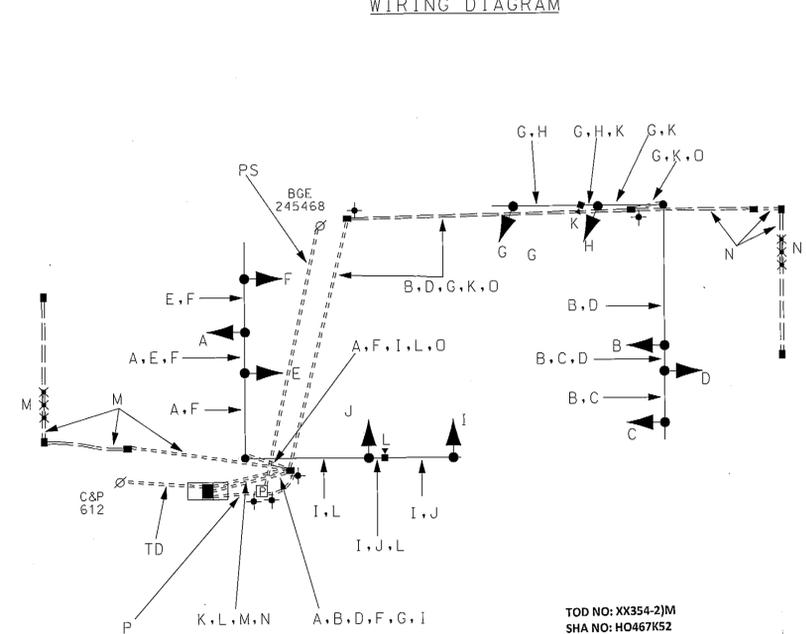
ITEM #	QUANTITY	ITEM DESCRIPTION
1003	2 EA	MAINTENANCE OF TRAFFIC
5003	20 LF	REMOVAL OF EXISTING PAVEMENT MARKING
5005	75 LF	F&I 24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
8001	30 EA	F&I 12" LED SIGNAL HEAD
8012	1 EA	F&I EMBEDDED METERED SERVICE PEDESTAL
8013	1 EA	F&I UNINTERRUPTABLE POWER SUPPLY STSEM
8023	2 EA	F&I NON-INVASIVE DETECTOR (ANY LENGTH)
8024	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8025	2 EA	F&I MAST ARM POLE AND TWIN 50'/50' MAST ARMS
8028	2 EA	F&I VIDEO DETECTION CAMERA AND CABLE
8034	265 LF	F&I UP TO 4" SCHEDULE 80 RIGID PVC CONDUIT-BORED
8036	700 LF	F&I UP TO 4" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8037	182 LF	F&I WOOD SIGN SUPPORTS UP TO 4"x6"
8038	185 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8040	200 LF	F&I #6 AWG STRANDED BARE COPPER GROUND WIRE
8043	50 LF	F&I ELECTRICAL CABLE 1-CONDUCTOR #8 AWG THHN/THWN
8044	9 EA	F&I ELECTRICAL HANDHOLE
8053	100 LF	F&I ELECTRICAL CABLE-5 CONDUCTOR #14AWG
8054	950 LF	F&I ELECTRICAL CABLE-7 CONDUCTOR #14AWG
8061	1 EA	INSTALLER CONTROLLER AND CABINET-BASE MOUNT

PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

A, B, D, F, G, I	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C, E, H, J	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
K	CONTROL CABLE (CAMERA TO CONTROLLER) UP TO 500'
M	MICROLOOP LEAD-IN CABLE (UP TO 1000')
O	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
P	3-1 CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)
TD	PROPOSED TELEPHONE DROP
PS	PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY BGE
+	GROUND ROD

TOD NO: XX354-2JM
SHA NO: HO467K52
MD 144 @ Folly Quarter Road

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 144 AND FOLLY QUARTER ROAD

WEST FRIENDSHIP, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 12/15/2010 CONTRACT NO. AX354516B

DESIGNED BY JA/CJS COUNTY HOWARD
DRAWN BY R.C./CJS LOGMILE 13014414.15
CHECKED BY CJS TMS NO. 1943
F.A.P. NO. TOD NO.

TS NO. 4684 DRAWING NO. 2 OF 2 SHEET NO. OF



5579.dgn T-183

PLOTTED: FRIDAY, DECEMBER 10, 2010 AT 12:19:43 PM
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DRILL HOLES

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BORDER REV. DATE: June 1, 2004