

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 22 AND SCHUCKS RD IN HARFORD COUNTY. THE MODIFICATIONS ARE TO RELOCATE THE MAST ARM, SIGNALS, SIGNS, CCTV CAMERA AND ASSOCIATED EQUIPMENT IN THE SOUTHEAST CORNER DUE TO WIDENING OF SCHUCKS ROAD. MD 22 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA EIGHT-PHASE, FULLY-ACTUATED MODE. THERE IS EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR BOTH APPROACHES OF MD 22. MD 22 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THERE IS EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR BOTH SCHUCKS RD AND THOMAS RUN RD. THE THROUGH MOVEMENTS OF SCHUCKS RD AND THOMAS RUN RD WILL OPERATE CONCURRENTLY. THE OPERATION OF THE SIGNAL WILL REMAIN.

EQUIPMENT LIST

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

QUANTITY	UNIT	DESCRIPTION
1	LS	MAINTENANCE OF TRAFFIC
1	CY	TEST PIT EXCAVATION
25	SF	5 INCH CONCRETE SIDEWALK
125	LF	DISCONNECT - PULL-BACK & REROUTE CABLES
1	LS	REMOVE, DISPOSE AND SALVAGE EQUIPMENT
1	EA	FURNISH AND INSTALL POLE EXTENSION FOR CCTV CAMERA ON SIGNAL POLE
1	EA	RELOCATE EXISTING CCTV CAMERA AND CAMERA CABLE ASSEMBLY
1	EA	RELOCATE EXISTING CCTV CAMERA CABINET
77	SF	INSTALL SHEET ALUMINUM SIGN
85	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
20	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
85	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
2	EA	VIDEO DETECTION CAMERA
2	EA	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
1	EA	FURNISH AND INSTALL STEEL POLE WITH TWIN 50' AND 70' MAST ARMS
1	EA	250 WATT HIGH PRESSURE SODIUM LAMP, LUMINAIRE AND PHOTOCCELL
6	EA	8 INCH VEHICLE TRAFFIC SIGNAL HEAD SECTION
20	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
50	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
1300	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
300	LF	ELECTRICAL CABLE - 2 CONDUCTOR (TC, NO. 12 AWG)
1	EA	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
50	LF	5 PAIR NO. 22 AWG SHIELDED COPPER CABLE
100	EA	NO. 6 STRANDED BARE COPPER GROUND WIRE
4	EA	D-3 (VAR. X 16") MAST ARM MOUNTED
1	EA	R3-5R (30" X 36") MAST ARM MOUNTED
1	EA	SHIELD ASSEMBLY *EAST, MD 22, LEFT ARROW* (30' X 51") POLE MOUNTED
1	EA	SHIELD ASSEMBLY *EAST, MD 22, LEFT ARROW* (48' X 75") POLE MOUNTED

CONTACTS

The contact persons for this project are as follows:

Ms. Erin Kuhn
Assistant District Engineer - Traffic
Phone: (410) 321-2781

Mr. Andre Futrell
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Mike Pasquale
Utility Engineer
Phone: (410) 321-2841

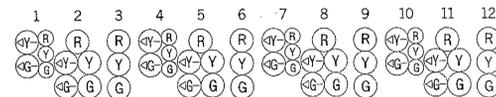
Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Supervisor, Signal Operations
Phone: 410-787-7650

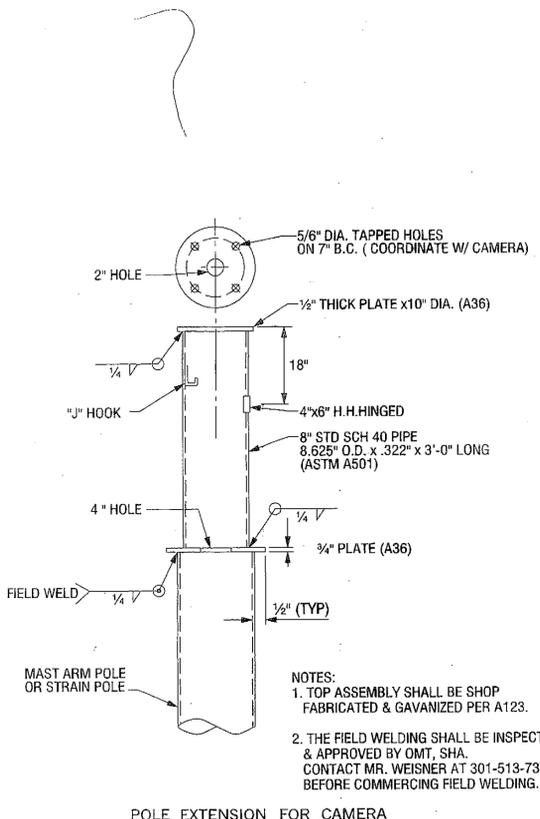
Mr. Sonny Bailey
Supervisor, Sign Shop
Phone: (410) 787-7676

Mr. Mike Stocker
Supervisor, Signal Warehouse
Phone: (410) 787-7668

PHASE CHART



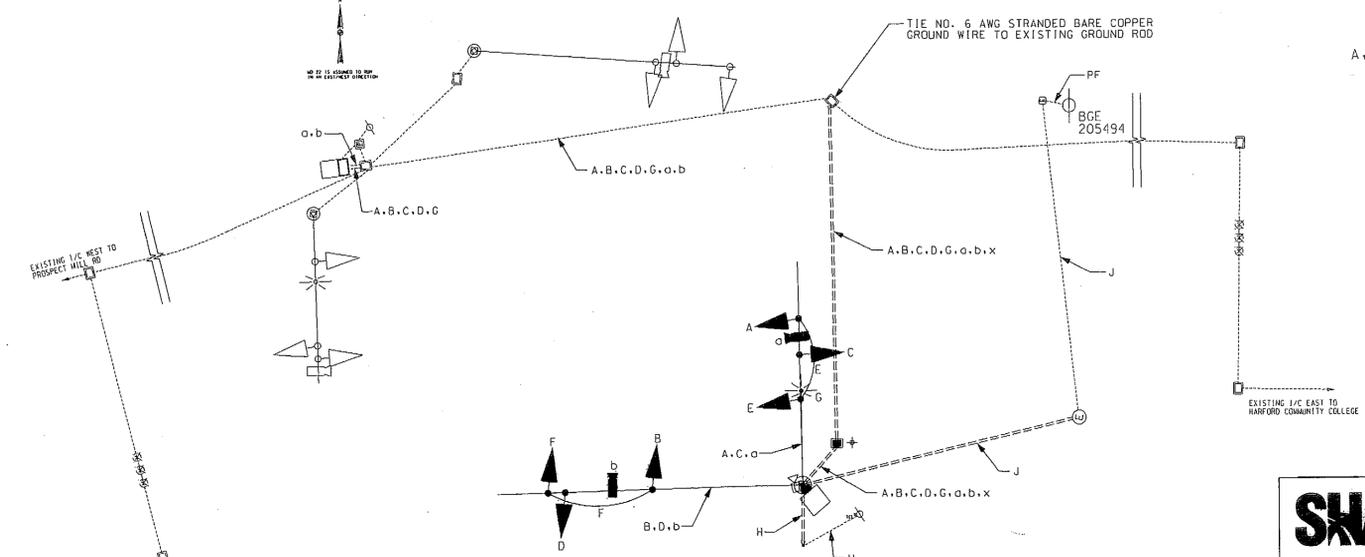
PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	R	R	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6															
PHASE 1 AND 6	+GG	+GG	G	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 6 CHANGE															
PHASE 2 AND 5	R	R	R	+GG	+GG	G	R	R	R	R	R	R	R	R	R
2 AND 5 CHANGE															
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R
2 AND 6 CHANGE															
PHASE 3 AND 7	R	R	R	R	R	R	+GR	+GR	R	+GR	+GR	R	R	R	R
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8															
PHASE 3 AND 8	R	R	R	R	R	R	+GG	+GG	G	R	R	R	R	R	R
3 AND 8 CHANGE															
PHASE 4 AND 7	R	R	R	R	R	R	R	R	R	R	+GG	+GG	G	R	R
4 AND 7 CHANGE															
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	G	G	G
4 AND 8 CHANGE															
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FL/R								



NOTES:
1. TOP ASSEMBLY SHALL BE SHOP FABRICATED & GALVANIZED PER A123.
2. THE FIELD WELDING SHALL BE INSPECTED & APPROVED BY OMT, SHA. CONTACT MR. WEISNER AT 301-513-7373 BEFORE COMMERCING FIELD WELDING.

POLE EXTENSION FOR CAMERA

WIRING DIAGRAM



NOTE:
1. ALL EXISTING CABLES NOT ADDRESSED IN THIS DIAGRAM WILL BE UTILIZED.

WIRING KEY

- A,B,C,D } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E,F } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- G } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG TC)
- H } 5 PAIR NO. 22 AWG SHIELDED COPPER ELECTRIC CABLE
- J } EXISTING 2 WIRE, 1 CONDUCTOR NO. 4 AWG ELECTRICAL CABLE FOR POWER
- o,b } VIDEO CAMERA CABLE
- x } NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- + } GROUND ROD
- PF - POWER FEED

10APHA032 xx

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

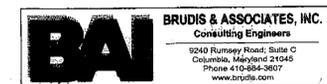
MD 22 (CHURCHVILLE RD) AT SCHUCKS RD/THOMAS RUN RD
BEL AIR, MD

GENERAL INFORMATION PLAN SHEET

SCALE NTS DATE 10/2010 CONTRACT NO. BW998M82

DESIGNED BY CW COUNTY HARFORD
DRAWN BY CW LOGMILE 12002203.59
CHECKED BY JB TMS NO. K607
F.A.P. NO. TOD NO.

TS NO. 265 #6 DRAWING - OF SHEET NO. 7 OF 7



PLOTTED: Friday, September 07, 2012 AT 08:30 AM
FILE: P:\10-006 Shucks Road Widening\Drawings\CADD\Working\p03-P000_MD22@SchucksRD.dgn

BY: Robert -