

**PROJECT DESCRIPTION**  
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 222 (BAINBRIDGE RD) AT THE SB I-95 RAMPS (1, 2, 7, AND 8) AND MD 222A IN CECIL COUNTY. MD 222 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

THE NORTHBOUND APPROACH OF MD 222 IS BEING WIDENED TO ACCOMMODATE TWO NORTHBOUND THROUGH LANES.

**THE EXISTING POWER SERVICE IS BEING REMOVED AND A NEW POWER SERVICE IS BEING INSTALLED BY DELMARVA POWER.**

**INTERSECTION OPERATION**

THE EXISTING CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE USED AT THIS LOCATION. THE INTERSECTION WILL CONTINUE TO OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR BOTH THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 222. THE MD 222 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE I-95 RAMP/ MD 222A THROUGH MOVEMENTS OPERATE CONCURRENTLY.

**SPECIAL NOTES**

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

**PROJECT CONTACTS:**

MR. JEFFREY WENTZ, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 810-3240  
MR. WM NORRIS EMBERT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 810-3270  
MIKE LEWIS, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 810-3250  
MR. BARRY CLOTHIER, UTILITY ENGINEER  
PHONE: (410) 810-3275  
MR. RICHARD L. DUFFY, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630  
MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS  
PHONE: (410) 787-7652

**THE POWER COMPANY REPRESENTATIVE IS:**

JUN DUANO  
DELMARVA POWER  
410-287-7176

2. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP. CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

**EQUIPMENT LIST**

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

NONE.

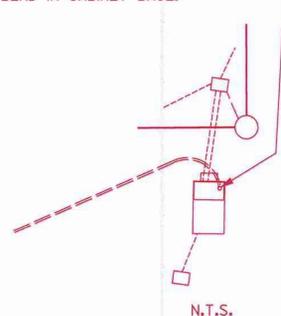
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
3	EA	NON-INVASIVE PROBE (SET OF 3) WITH 1000 FT. LEAD-IN CABLE
2	EA	16 IN. X VAR. D-3(1) SIGN - MAST ARM
6	EA	HANDHOLE
410	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
210	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - BORED
15	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
125	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
5	EA	RELOCATE EXISTING SIGNAL HEAD - MAST
920	LF	RELOCATE EXISTING UNDERGROUND INTERCONNECT CABLE
1	EA	REALIGN VIDEO DETECTOR CAMERA
LUMP SUM	LS	REMOVE EXISTING SIGNAL EQUIPMENT

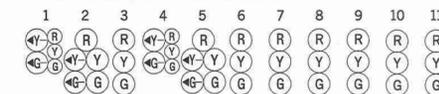
**EQUIPMENT LIST CONT.**

QUANTITY	UNITS	DESCRIPTION
45	LF	2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
95	LF	2 IN. PVC CONDUIT [SCHEDULE 80] - BORED
10	LF	2.5 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
40	LF	2.5 IN. PVC CONDUIT [SCHEDULE 80] - RISER
1	EA	SHA POWER PEDESTAL
675	LF	2 CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
150	LF	BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
3	EA	GROUND ROD

**2 IN. CONDUIT TO BE HAND TRENCHED AROUND THE FRONT OF THE CABINET TO MEET EXISTING EMPTY 2 IN. CONDUIT BEND IN CABINET BASE.**

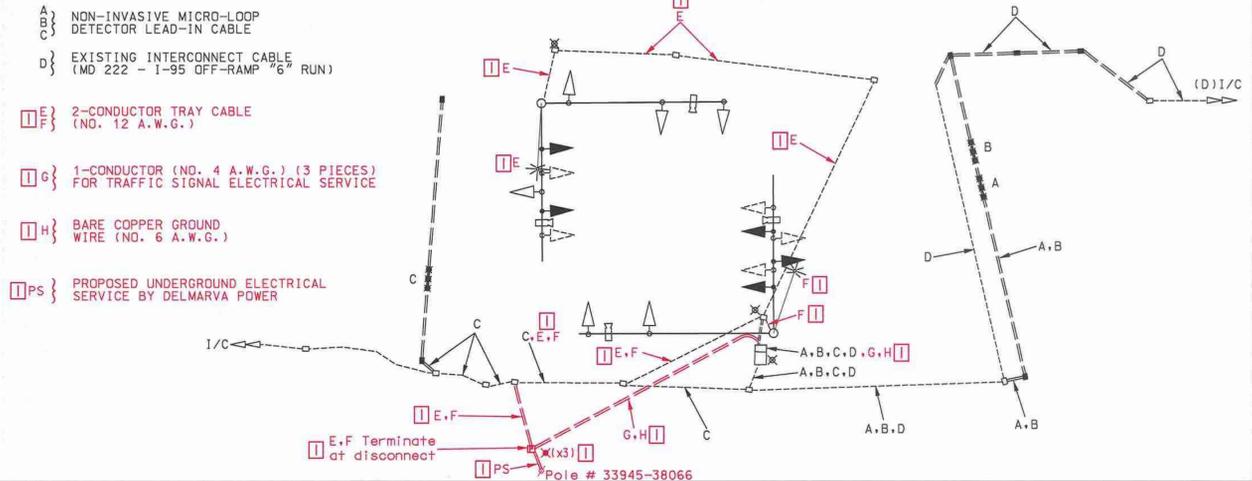


**Phase Chart**



PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	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	R	R	R	+GG	+GG	G	R	R	R	R	R
1 CHANGE	R	R	R	+YG	+YG	G	R	R	R	R	R
PHASE 2 AND 5	+GG	+GG	G	+GG	+GG	R	R	R	R	R	R
5 CHANGE	+YG	+YG	G	+YG	+YG	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

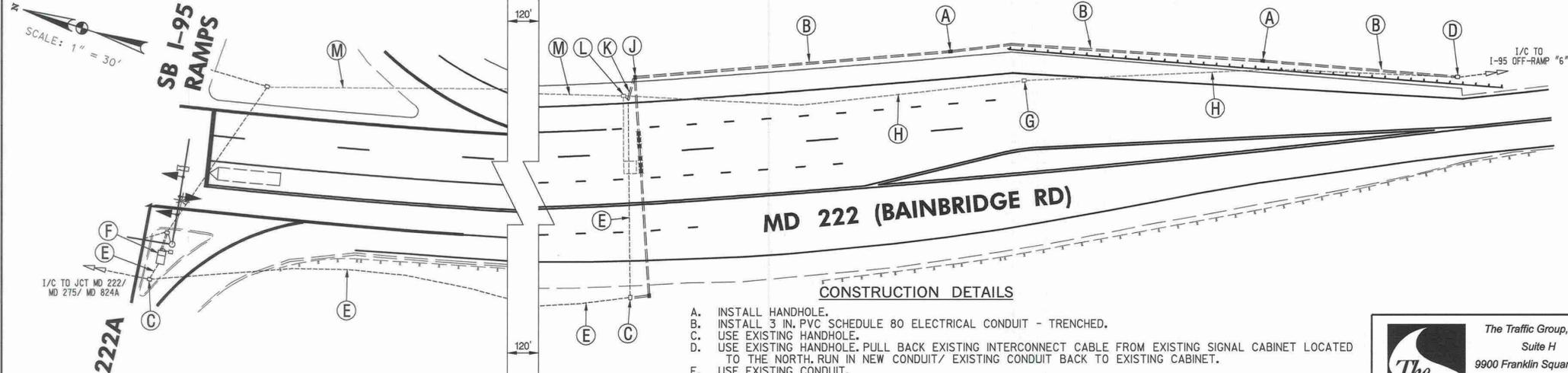
**Wiring Diagram**



**Redline Revision**  
Dated May 20, 2010

**SHA** NOT - SHA  
DATE

S.H.A. Approval Date  
T.S. # 3494D T.I.M.S. # K229



- CONSTRUCTION DETAILS**
- A. INSTALL HANDHOLE.
  - B. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
  - C. USE EXISTING HANDHOLE.
  - D. USE EXISTING HANDHOLE. PULL BACK EXISTING INTERCONNECT CABLE FROM EXISTING SIGNAL CABINET LOCATED TO THE NORTH. RUN IN NEW CONDUIT/ EXISTING CONDUIT BACK TO EXISTING CABINET.
  - E. USE EXISTING CONDUIT.
  - F. USE EXISTING CABINET/CONTROLLER.
  - G. REMOVE EXISTING HANDHOLE.
  - H. CAP AND ABANDON EXISTING CONDUIT.
  - J. HANDHOLE INSTALLED AS PART OF THE TRAFFIC SIGNAL PLAN (SEE SHEET I).
  - K. CONDUIT INSTALLED AS PART OF THE TRAFFIC SIGNAL PLAN (SEE SHEET I).
  - L. HANDHOLE REMOVED AS PART OF THE TRAFFIC SIGNAL PLAN (SEE SHEET I).
  - M. CONDUIT REMOVED AS PART OF THE TRAFFIC SIGNAL PLAN (SEE SHEET I).

**The Traffic Group, Inc.**  
Suite H  
9900 Franklin Square Drive  
Baltimore, Maryland 21236  
410-931-6600  
1-800-583-8411  
Fax 410-931-6601  
"Merging Innovation and Excellence"®

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

**MD 222 (BAINBRIDGE RD) AT SB I-95  
ON-RAMPS 1 & 8 AND OFF-RAMPS 2 & 7**  
PERRYVILLE, MD

**GENERAL INFORMATION PLAN**

SCALE NA DATE APRIL 27, 2010 CONTRACT NO. BW996M82

DESIGNED BY J. STORCK COUNTY CECIL  
DRAWN BY J. STORCK LOGMILE 07022202.06  
CHECKED BY S. J. LOGMILE TIMS NO. K229  
F.A.P. NO. TOD NO.

TS NO. 3494D DRAWING G1-01 OF 01 SHEET NO. 2 OF 2