

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. DUFF, 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 QUANO
DELMARVA POWER
410-287-7176
Work Request Number - 6089095

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.

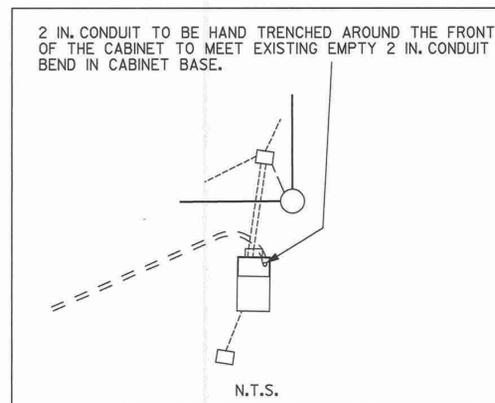
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

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

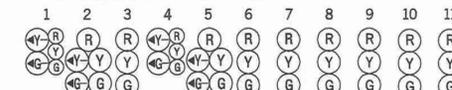
3 1 EA 16 IN. X VAR. D-3(1) (DUAL FACE) SIGN - MAST ARM

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

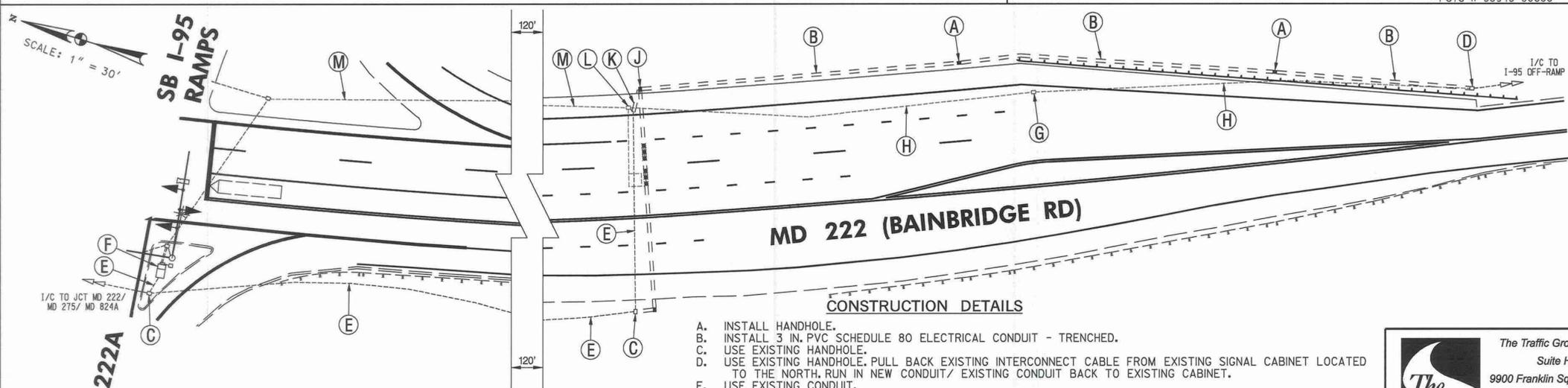
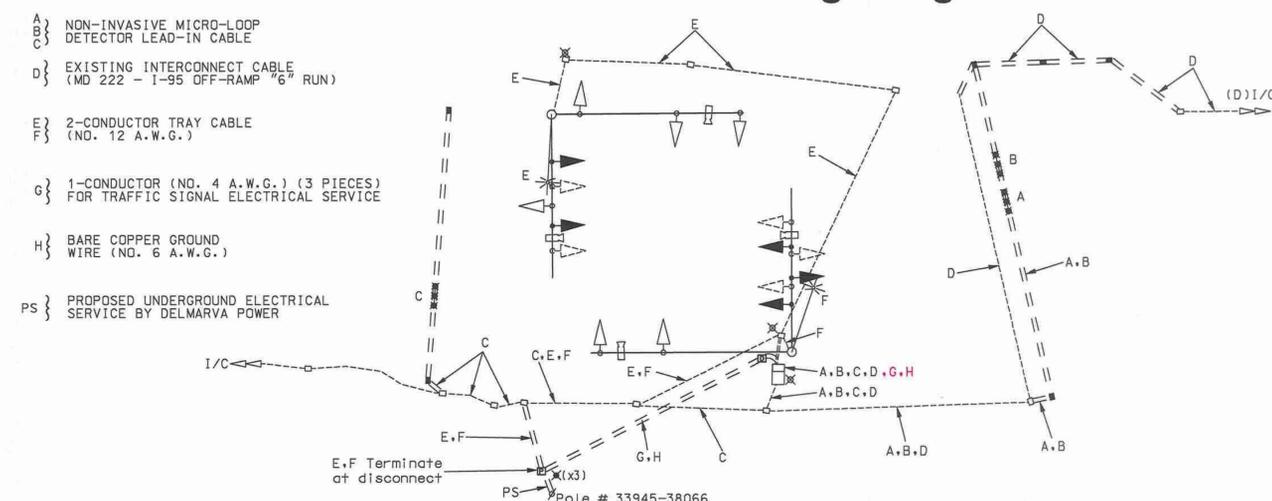


Phase Chart



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



- CONSTRUCTION DETAILS**
- INSTALL HANDHOLE.
 - INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - USE EXISTING HANDHOLE.
 - 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.
 - USE EXISTING CONDUIT.
 - USE EXISTING CABINET/CONTROLLER.
 - REMOVE EXISTING HANDHOLE.
 - CAP AND ABANDON EXISTING CONDUIT.
 - HANDHOLE INSTALLED AS PART OF THE TRAFFIC SIGNAL PLAN (SEE SHEET I).
 - CONDUIT INSTALLED AS PART OF THE TRAFFIC SIGNAL PLAN (SEE SHEET I).
 - HANDHOLE REMOVED AS PART OF THE TRAFFIC SIGNAL PLAN (SEE SHEET I).
 - CONDUIT REMOVED AS PART OF THE TRAFFIC SIGNAL PLAN (SEE SHEET I).

3 Redline Revision Dated September 14, 2010
SHA NOT - SHA DATS
 S.H.A. Approval Date 9/24/2010
 T.S. # 3494D T.I.M.S. # K229

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	[Signature]	TIMS NO.	K229		
F.A.P. NO.		TOD NO.			

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 "Merging Innovation and Excellence"