

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing traffic signal at the intersection of MD 213 (Morgnac Road) and MD 291 (Washington Avenue) in Kent county.

II. INTERSECTION OPERATION

1. The intersection operates in a NEMA 8-phase, 4-actuated mode, with the left turn phasing along Northbound and Southbound MD 213 operates as exclusive/ permissive phasing. The left turn phasing along Eastbound and Westbound MD 291 (Morgnac Road) operates as exclusive/permissive phasing. Fire pre-emption phasing operates in the North and Southbound approaches of MD 213, East and Westbound approaches of MD 291. Intersection lighting shall be added to the Northeast and Southwest corners mast arm poles attaching mast arm pole extensions to extend the mast arm pole to a height of 27 ft. with a lighting arm and a 250 watt high pressure sodium luminaire.

NOTES

- For final pavement markings, refer to the pavement marking plans, as applicable; other than those detailed on the plan. All pavement markings shall be installed in accordance with Administration standards.
- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly label each cable.
- 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.
- The contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian, and detector devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- All proposed luminaires shall be supplied with a photocell.

CONTACTS

DISTRICT

(RICHARD K. LINDSAY)
DISTRICT ENGINEER
410-810-3210

(ROBERT L. KIEL)
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-810-3240

(BARRY CLOTHIER)
ASSISTANT DISTRICT ENGINEER - UTILITIES
410-810-3275

(WM NORRIS EMBERT)
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-810-3270

(TERRY O. WRIGHT)
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-810-3250

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF SIGN OPERATIONS
410-787-7670

MS. DARLENE EIDE
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

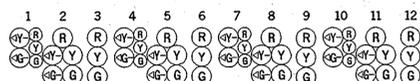
ITEM NO./CAT CODE	QUANTITY	DESCRIPTION
		None

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 Ea.	Maintenance of Traffic
8023	2 Ea.	250 Watt HPS Luminaire
8037	385 LF.	Electrical Cable - 2 Conductor No. 12 AWG - Tray Cable
8038	2 Ea.	15 Foot Lighting Arm
NEG.	2 Ea.	F&I Mast Arm Pole extension and Paint Signal equipment Federal Brown

C. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	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
1 AND 6 CHANGE	+YG	+YG	G	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	+GG	+GG	G	R	R	R	R	R	R
2 AND 5 CHANGE	R	R	R	+YG	+YG	G	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3 AND 7	R	R	R	R	R	R	+GR	+GR	R	+GR	+GR	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	R	R	R	+GG	+GG	G
3 AND 8 CHANGE	R	R	R	R	R	R	R	R	R	+YG	+YG	G
PHASE 4 AND 7	R	R	R	R	R	R	+GG	+GG	G	R	R	R
4 AND 7 CHANGE	R	R	R	R	R	R	+YG	+YG	G	R	R	R
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

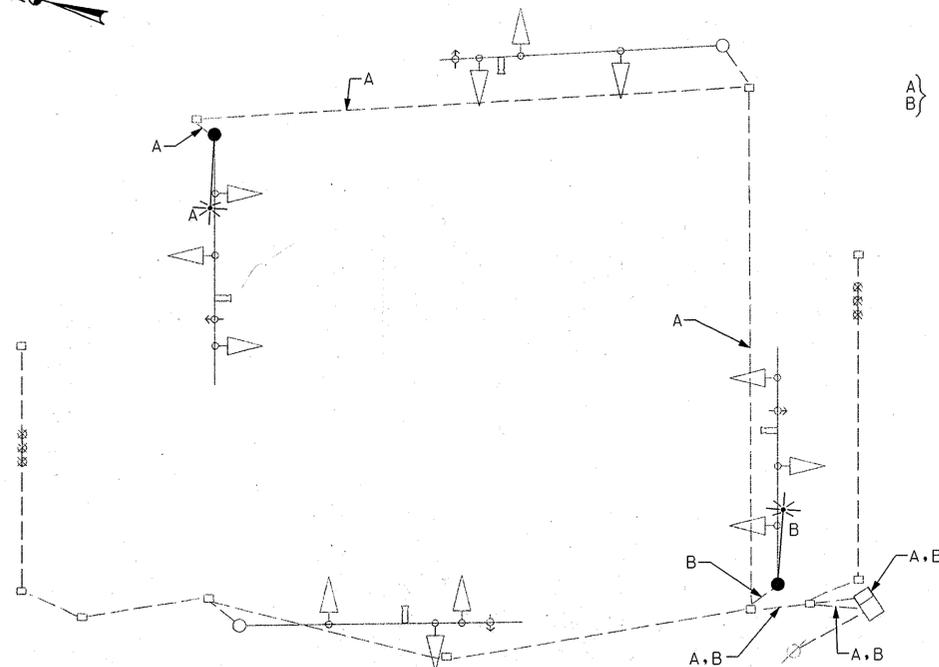
FIRE PRE-EMPTION MD 213

PHASE	1	2	3	4	5	6	7	8	9	10	11	12
PRE-EMPTION PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R
PRE-EMPTION CLEARANCE PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	R	R	R	R

FIRE PRE-EMPTION MD 291

PHASE	1	2	3	4	5	6	7	8	9	10	11	12
PRE-EMPTION PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G
PRE-EMPTION CLEARANCE PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G
PHASE 4 AND 8 NORMAL OPERATION	R	R	R	R	R	R	G	G	G	G	G	G

WIRING DIAGRAM



KEY

A } ELECTRICAL CABLE - 2 CONDUCTOR
B } NO. 12 AWG

TOD NO: AT908-10
SHA NO: KE457A51/B51
MD213@MD291

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

**MD 213 (MORGNEC AVENUE) AT
MD 291 (WASHINGTON AVENUE)**
CHESTERTOWN, MARYLAND

GENERAL INFORMATION PLAN

SCALE N.T.S. DATE 10/01/2007 CONTRACT NO. AT9085185

DESIGNED BY S. SMITH COUNTY KENT

DRAWN BY S. SMITH LOGMILE 14021301.32

CHECKED BY J. WEAVER T.I.M.S. NO. 1315

F.A.P. NO. _____ TOD NO. _____

DRAWING NO. **TS39F - 2 OF 2** SHEET NO. _____ OF _____

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-6564
WWW.SABRA-WANG.COM