

**PROJECT DESCRIPTION
GENERAL**

THIS PROJECT INVOLVES THE RECONSTRUCTION OF A TRAFFIC SIGNAL WITH FIRE PRE-EMPTION AT THE INTERSECTION OF MD 313 (GREENSBORO ROAD) AT MD 314 (SUNSET AVE / WHITELEYSBURG ROAD) IN CAROLINE COUNTY.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 4 NEMA PHASES. FIRE PRE-EMPTION IS PROVIDED FOR THE MD 314 APPROACHES (PHASES 4).

SPECIAL NOTES

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

PROJECT CONTACTS:

MR. ROBERT I. KIEL, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 810-3240
MR. NORRIS EMBERT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 810-3270
MR. TERRY O. WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 810-3250
MR. BARRY CLOTHIER, UTILITY ENGINEER
PHONE: (410) 810-3275
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

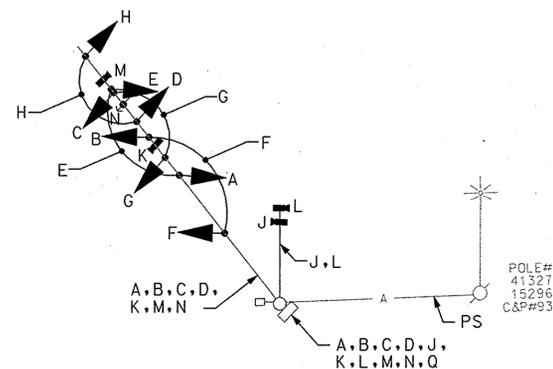
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9086	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERS	EA	1
9570	SHEET ALUMINUM SIGNS CONSISTING OF:	SF	172
	D95-25 (24"x12") GROUND MOUNT	EA	4
	D-3(2) (16" X VAR.) GROUND MOUNT	EA	6
	GUIDE SHIELD ASSEMBLY (30"x51") GROUND MOUNT	EA	4
	GUIDE SHIELD ASSEMBLY (48"x75") GROUND MOUNT	EA	1
	M95-2 (30"x72") GROUND MOUNT	EA	1
	W3-3 (36"x36") GROUND MOUNT	EA	4
	M3-2 (24"x12") GROUND MOUNT	EA	1
	M3-4 (24"x12") GROUND MOUNT	EA	1
	M1-5 (30"x24") GROUND MOUNT	EA	2
	M6-1(L) (21"x15") GROUND MOUNT	EA	1
	M6-1(R) (21"x15") GROUND MOUNT	EA	1

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

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	2
5003	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH	LF	190
5006	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	90
8007	CONTROL CABLE, 100 FOOT, VIDEO DETECTION	EA	4
8021	REM & DISPOSE MAT & EQUIP PER ASSIGN	EA	1
8031	WOOD SIGN SUPPORTS 4 IN. X 4 IN.	LF	34
8055	WOOD SIGN SUPPORTS 6 IN. X 6 IN.	LF	144
8056	INSTALL GROUND MOUNT SIGN	SF	172
8058	VIDEO DETECTION CAMERA	EA	4
8059	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76	EA	1
8061	OPTICOM NO. 721 DETECTOR EYE	EA	1
8080	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE	LF	90
8086	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	90
8087	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	290
8092	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	1
8102	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION	EA	16
8103	12 INCH YELLOW LED SIGNAL HEAD SECTION	EA	8

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

WIRING DIAGRAM



- A B C D } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E F G H J } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- K L M } VIDEO DETECTION CABLE
- N } 4 CONDUCTOR OPTICOM CABLE
- Q } EXISTING GROUND CABLE
- PS } EXISTING OVERHEAD POWER SERVICE

PHASE CHART

	1	2	3	4	5	6	7	8	
	(R)								
	(Y)								
	(G)								
PHASE 2 AND 6	G	G	G	G	R	R	R	R	←
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	→
PHASE 4 AND 8	R	R	R	R	G	G	G	G	↑
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	⚡
PRE-EMPTION PHASE 4 AND 8	R	R	R	R	G	G	G	G	↑
PRE-EMPTION CLEARANCE 4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	↓
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	R	R	R	R	←

TOD No: AT355-15
SHA: CO458A51/B51

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
**MD 313 (GREENSBORO RD) AT
MD 314 (WHITELEYSBURG RD/SUNSET AVE)**
GREENSBORO, MARYLAND

GENERAL INFORMATION PLAN

SCALE 1"=20'	DATE 05/15/2005	CONTRACT NO. AT3555185
DESIGNED BY C.FLEMING	COUNTY CAROLINE	
DRAWN BY C.FLEMING	LOGMILE 05031325.08	
CHECKED BY S.RENZI	T.I.M.S. NO. G817	
F.A.P. NO. N/A	TOD NO. N/A	
DRAWING NO. TS-3593B	OF	SHEET NO. 2 OF 2

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