

**PROJECT DESCRIPTION**

**I. GENERAL**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 175 AND LLEWELLYN AVE./BLUE WATER BLVD. IN ANNE ARUNDEL COUNTY. THE WORK WILL CONSIST OF A PHASING CHANGE FOR THE EASTBOUND MD 175 APPROACH FROM EXCLUSIVE/PERMISSIVE TO EXCLUSIVE LEFT TURN PHASE.

**II. INTERSECTION OPERATION**

- THE INTERSECTION SHALL OPERATE IN A NEMA SIX (6) PHASE, SEMI ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASING ALONG EASTBOUND MD 175 AND EXCLUSIVE/PERMISSIVE LEFT TURN ALONG WESTBOUND MD 175. THE NORTHBOUND AND SOUTHBOUND APPROACHES WILL CONTINUE TO OPERATE UNDER SPLIT PHASING.
- AN EXISTING NEMA FULL-TRAFFIC-ACTUATED, EIGHT (8) PHASE CONTROLLER HOUSED IN A NEMA SIZE 6 BASE MOUNTED CABINET SHALL BE UTILIZED AT THIS LOCATION.

**CONTACTS**

**DISTRICT**

OFFICE OF TRAFFIC AND SAFETY

MS. KIMBERLY TRAN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
410-841-1019

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

MR. JAMES FOLDEN  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
410-841-1031

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

MR. JOHN S. MAYS  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
410-841-1013

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

MR. MIKE HUBER  
UTILITY ENGINEER  
410-841-1039

MR. EUGENE BAILEY  
CHIEF, SIGN OPERATIONS  
410-787-7670  
  
MS. DARLENE EIDE  
CHIEF OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7668

**EQUIPMENT LIST**

**A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION**

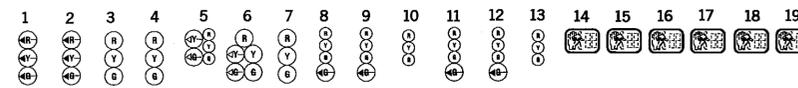
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9570	SHEET ALUMINUM GROUND MOUNTED SIGNS CONSISTING OF:	SF	10
		EA	1
		EA	1
		EA	1
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS CONSISTING OF:	SF	58
		EA	1
		EA	2
9572	SHEET ALUMINUM SPAN MOUNTED SIGNS CONSISTING OF:	SF	86
		EA	8

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

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1003	MAINTENANCE OF TRAFFIC	EA	1
8021	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT PER ASSIGNMENT	EA	1
8025	VIDEO DETECTION CAMERA & CABLE UP TO 500 FT	EA	1
8036	WOOD SIGN SUPPORTS UP TO 4 X 6	LF	18
8038	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCL. ALL HARDWARE)	SF	154
8050	12 IN. LED TRAFFIC SIGNAL HEAD SECTION	EA	9
8056	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	200

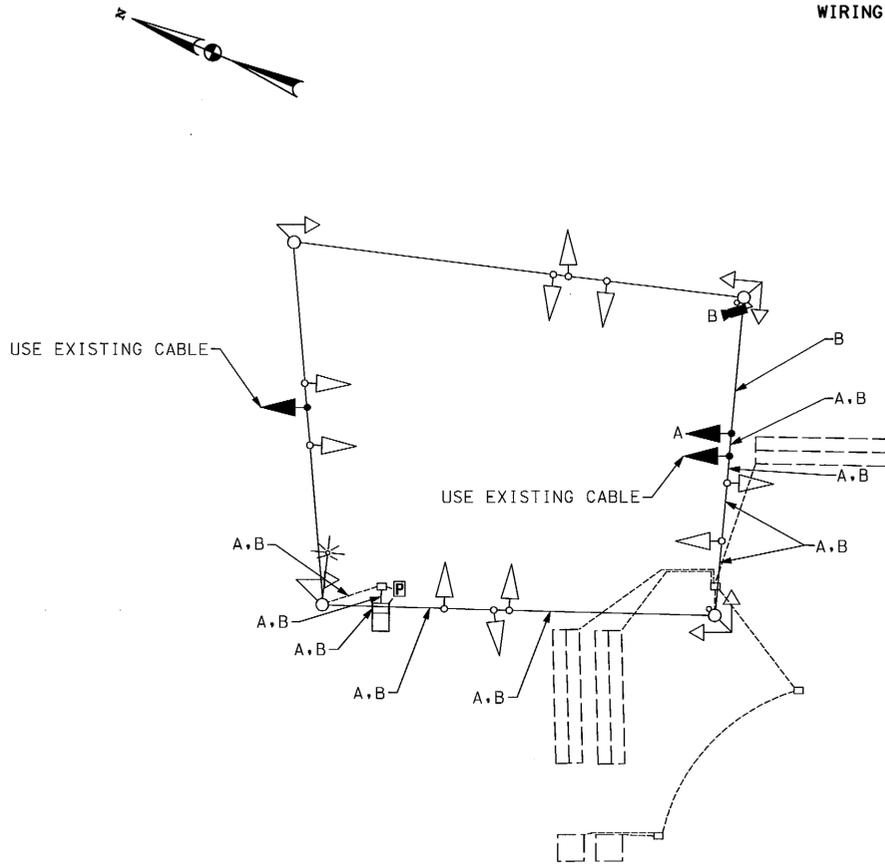


**PHASE CHART**



PHASE 1 AND 5	←G←←G← R R ←GR←GR R R R R R R R R DW DW DW DW DW DW
1 AND 5 CHANGE	PHASE 1 AND 5 MAY CHANGE TO PHASE 1 AND 6, 2 AND 5 OR 2 AND 6
PHASE 1 AND 6	←R←←R← R R ←GG←GG G R R R R R R R R WK DW DW WK DW DW
1 CHANGE	←R←←R← R R ←YG←YG G R R R R R R R R WK DW DW WK DW DW
PHASE 2 AND 5	←G←←G← G G R R R R R R R R R R R R DW WK WK DW DW DW
5 CHANGE	←Y←←Y← G G R R R R R R R R R R R R DW WK WK DW DW DW
PHASE 2 AND 6	←R←←R← G G G G G R R R R R R R R WK WK WK WK DW DW
PED CLEAR	←R←←R← G G G G G R R R R R R R R FL/DW FL/DW FL/DW DW DW
2 AND 6 CHANGE	←R←←R← Y Y Y Y Y R R R R R R R R DW DW DW DW DW DW
PHASE 3	←R←←R← R R R R R R R R R R ←G←←G← G DW DW DW DW DW DW
3 CHANGE	←R←←R← R R R R R R R R R R Y Y Y DW DW DW DW DW DW
PHASE 4	←R←←R← R R R R R R ←G←←G← G R R R R R DW DW DW DW DW DW
4 CHANGE	←R←←R← R R R R R R Y Y Y R R R R DW DW DW DW DW DW
PHASE 4 ALT.	←R←←R← R R R R R R ←G←←G← G R R R R DW DW DW DW WK WK
PED CLEAR	←R←←R← R R R R R R ←G←←G← G R R R R DW DW DW DW FL/DW FL/DW
4 ALT CHANGE	←R←←R← R R R R R R Y Y Y R R R R DW DW DW DW DW DW
FLASHING OPERATION	FL/R FL/R FLY FLY FLY FLY FLY FLY FL/R FL/R FL/R FL/R FL/R FL/R DARK DARK DARK DARK DARK DARK

**WIRING DIAGRAM**



- KEY**
- A } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
  - B } VIDEO DETECTION CABLE

TOD No: XX447-15  
SHA No: AA756A56/B56  
MD 175 @ Blue Water Blvd/Llewellyn Avenue

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

MD 175 (ANNAPOLIS ROAD)  
AT LLEWELLYN AVENUE / BLUE WATER BOULEVARD  
ODENTON, MARYLAND

**GENERAL INFORMATION SHEET**

SCALE	N.T.S.	DATE	MAY 2010	CONTRACT NO.	XX4475185
DESIGNED BY	J. WOOD	COUNTY	ANNE ARUNDEL		
DRAWN BY	J. WOOD	LOGMILE	02017504.94		
CHECKED BY	S. SMITH	TMS NO.	1138		
FAP NO.		TOD NO.			
TS NO.	163G	DRAWING	OF	SHEET NO.	2 OF 2

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