

**PROJECT DESCRIPTION  
GENERAL**

THIS PROJECT INVOLVES THE MODIFICATION OF REMOVING THE E/P LEFT TURN SIGNAL HEADS ON MD 414 AND INSTALLING EXCLUSIVE LEFT TURN SIGNAL HEADS. THE INSTALLATION OF SIGNS "PROCEED ON FLASHING RED AFTER STOP" FOR THE NORTH AND SOUTH BOUND LEFT TURNS. THE EXCLUSIVE LEFT TURN OPERATIONS SHALL BE BETWEEN 6 AM AND 7 PM. THE MODIFICATION ALSO INVOLVES PROVIDING SIDE STREET SPLITTING PHASE FOR MD 414 (ST. BARNABAS ROAD) AND MD 5 OFF RAMP/28 TH STREET IN PRINCE GEORGE'S COUNTY. MD 414 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

**INTERSECTION OPERATION**

THIS INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES.

**SPECIAL NOTES**

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

**PROJECT CONTACTS:**

- MR. LEE STARKLOFF, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301) 513-7358
- MR. RALEIGH MEDLEY, ASSISTANT DISTRICT ENGINEER- MAINTENANCE  
PHONE: (301) 513-7300
- MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER - UTILITY  
PHONE: (301) 513-7300
- MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630
- MR. ROBERT SNYDER, ASSISTANT CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7631
- MR. ED RODENHIZER, CHIEF OF SIGNAL SHOP  
PHONE: (410) 787-7650

**EQUIPMENT LIST**

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.  
ITEM NO. DESCRIPTION

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9000	FLAT SHEET ALUMINUM SIGNS CONSISTING OF:	SF	118
	D-3(1) (VAR. X16") MAST ARM MOUNTED	EA	4
	R3-5(L) (30" X36") MAST ARM MOUNTED	EA	1
	R3-8 (30" X30") MAST ARM MOUNTED	EA	1
	R10-4(1) (9" X12") MAST ARM POLE MOUNTED	EA	2
	R10-6(1) (60" X36") MAST ARM MOUNTED	EA	2
	SHIELD ASSEMBLY (48" X75") GROUND MOUNT	EA	1

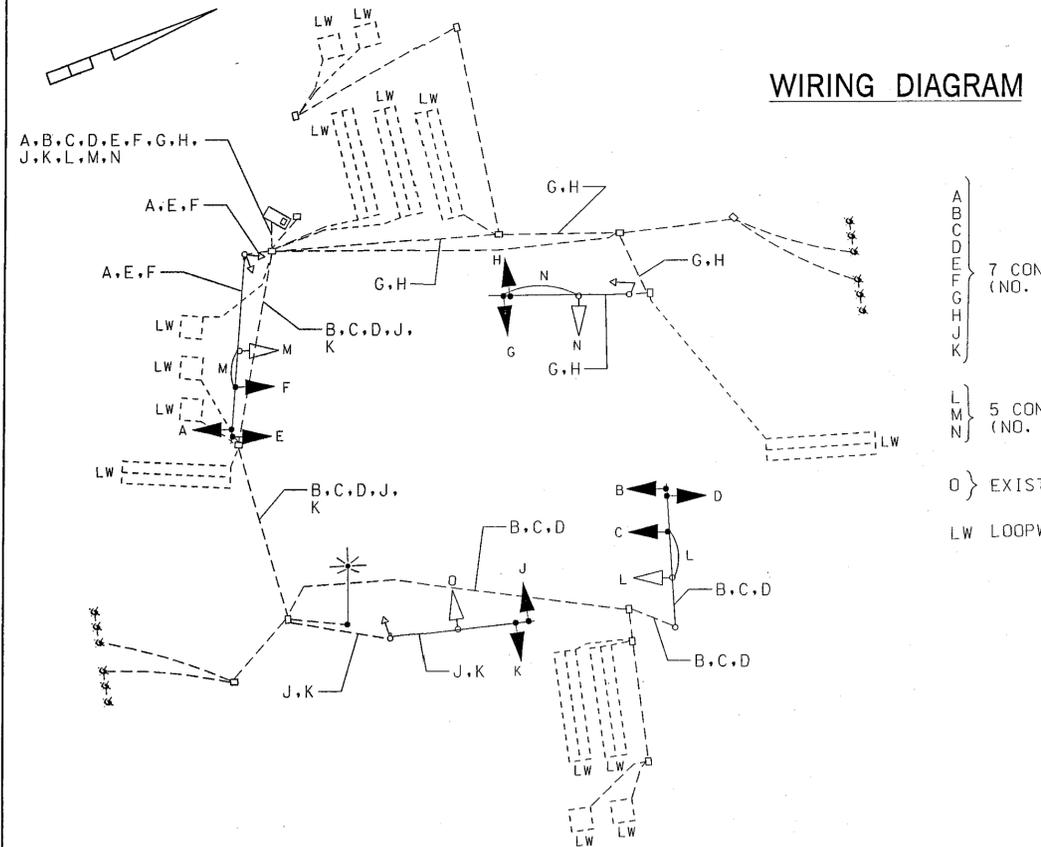
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
5008	FURNISH AND INSTALL HEAT APPLIED WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS	EA	2
8011	FURNISH AND INSTALL PUSHBUTTON AND SIGN - R10-4(1), 9" x 12" - "PUSH BUTTON TO CROSS ST. BARNABAS ROAD"	EA	2
8013	REMOVE AND DISPOSE MAT. AND EQUIPMENT PER EACH PER ASSIGNMENT	EA	1
8022	FURNISH AND INSTALL SIGN SUPPORTS 4 INCH X 4 INCH	LF	20
8042	INSTALL GROUND MOUNTED SIGN	SF	26
8043	INSTALL OVERHEAD SIGNS	SF	92
8053	FURNISH AND INSTALL 12 IN VEHICLE SIGNAL HEAD SECTION	EA	48
8058	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG	LF	230
8059	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG	LF	2000

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

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

CATEGORY NO.	DESCRIPTION	UNITS	QUANTITY
	NONE		



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
PHASE 1 AND 5	←G	←G	R	R	←G	←G	R	R	R	R	R	R	R	R	←R/G	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																			
PHASE 1 AND 6	←G	←G	G	G	←R	←R	R	R	R	R	R	R	R	R	←R/G	DW	WK	WK	DW
PED CLEARANCE	←G	←G	G	G	←R	←R	R	R	R	R	R	R	R	R	←R/G	DW	FL/DW	FL/DW	DW
1 AND 6 CHANGE	←Y	←Y	Y	Y	←R	←R	R	R	R	R	R	R	R	R	Y	DW	DW	DW	DW
PHASE 2 AND 5	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R	R	WK	DW	DW	WK
PED CLEARANCE	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R	R	FL/DW	DW	DW	FL/DW
2 AND 5 CHANGE	←R	←R	R	R	←Y	←Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	R	WK	WK	WK	WK
PED CLEARANCE	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW
2 AND 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	←R	←R	R	R	←R	←R	R	R	←G	←G	R	R	R	R	R	DW	DW	DW	DW
3 CHANGE	←R	←R	R	R	←R	←R	R	R	←Y	←Y	R	R	R	R	R	DW	DW	DW	DW
PHASE 3 ALT	←R	←R	R	R	←R	←R	R	R	←G	←G	R	R	R	R	R	DW	DW	DW	DW
PED CLEARANCE	←R	←R	R	R	←R	←R	R	R	←G	←G	R	R	R	R	R	DW	DW	DW	DW
3 ALT CHANGE	←R	←R	R	R	←R	←R	R	R	←Y	←Y	R	R	R	R	R	DW	DW	DW	DW
PHASE 4	←R	←R	R	R	←R	←R	R	R	←G	←G	R	R	R	R	←R/G	DW	DW	DW	DW
4 CHANGE	←R	←R	R	R	←R	←R	R	R	←Y	←Y	R	R	R	R	←R/G	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	DARK	DARK	DARK	DARK						
FIRE HOUSE PRE-EMPTION																			
FIRE HOUSE PRE-EMPTION PHASE 6	←G	←G	G	G	←R	←R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PRE-EMPTION CLEARANCE	←Y	←Y	Y	Y	←R	←R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6 NORMAL OPERATION	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	R	WK	WK	WK	WK

\* Exclusive left turn operation between the hours of 6 am-7pm all other hours shall be flashing red. For heads 1, 2, 5 and 6.

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION PLAN  
MD 414 (SAINT BARNABAS ROAD) AT  
MD 5 OFF RAMP/28TH AVE.

SABRA, WANG & ASSOCIATES, INC.  
1504 JOH AVENUE  
SUITE 160  
BALTIMORE, MD 21227  
WWW.SABRA-WANG.COM

DRAWN BY: S. SMITH	F.A.P. NO. 01-404152	TS NO. 16 J	SHEET NO.
CHECKED BY: J. ALLEN JR.	S.H.A. NO. 01-404152	T.I.M.S. NO. F301	OF
SCALE: NTS	COUNTY: PRINCE GEORGE'S CO.	LOG MILE: 16041403.93	
DATE: SEPTEMBER, 2001			

PC-00-077838(0)WD04-14(0)PL1.DGN