

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic signal to change the existing exclusive-permissive left turn phasing to protected left turn phasing along eastbound Education Boulevard in Gaithersburg, Maryland. MD 355 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA 6-phase, semi-actuated mode, with exclusive-permissive left turn phasing for the northbound MD 355 approach and exclusive left turn phasing for the eastbound Education Boulevard approach.
- The existing NEMA full-traffic-actuated, eight (8) phase controller housed in a NEMA 6 base mounted cabinet will be utilized at this location.

NOTES

- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling 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 detectors, and lighting 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.

CONTACTS

DISTRICT FOUR

MR. BRIAN YOUNG
DISTRICT ENGINEER
301-513-7311

MS. ANYESHA MOOKHERJEE
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7498

MR. VICTOR GRAFTON
UTILITY ENGINEER
301-513-7350

MR. KEVIN NOWAK & MR. DUANE BERNARD
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7385

MR. TOM FOUNTAIN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

OFFICE OF TRAFFIC AND SAFETY

MR. AVIJIT MAJI
CHIEF, TRAFFIC OPERATIONS
410-787-7630

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

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670

MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN CONSISTING OF: R10-3(1) (9" X 15") R3-5(L) (30" X 36")	SF	9
		EA	1
		EA	1
9570	SHEET ALUMINUM GROUND MOUNTED SIGNS CONSISTING OF: R3-7(L) (30" X 30") R4-7 (24" X 30")	SF	17.5
		EA	2
		EA	1
		EA	1

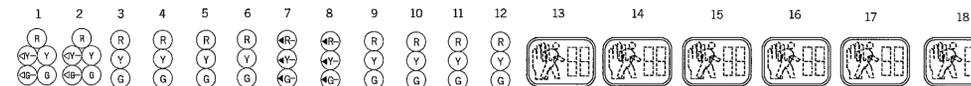
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC		
2001	CLASS 2 EXCAVATION	EA	1
5001	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING SYMBOLS OR LEGENDS	CY	3
5006	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	EA	4
6001	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH	SF	103
6002	5 INCH CONCRETE SIDEWALK	LF	10
8001	12 INCH LED SIGNAL HEAD SECTION	SF	80
8027	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	9
8044	WOOD SIGN SUPPORTS UP TO 4' X 6'	EA	1
8045	INSTALL OVERHEAD OR GROUND MOUNT SIGN (INCLUDING ALL HARDWARE)	LF	45
8056	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	SF	40
8060	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	EA	1
		LF	200

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

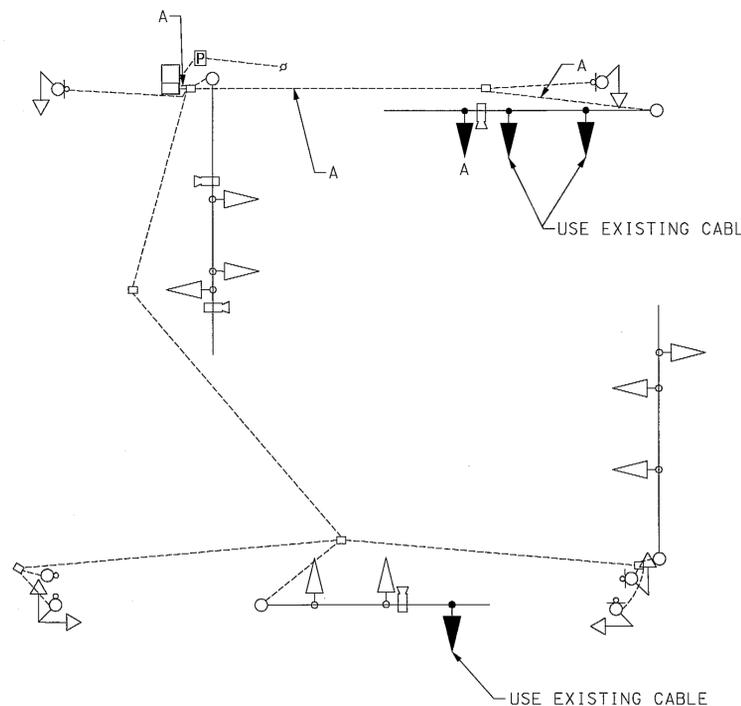


PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 AND 6	←G/G	←G/G	G	R	R	R	←R-	←R-	R	R	R	R	DW	DW	DW	DW	DW	DW
1 CHANGE	←Y/G	←Y/G	G	R	R	R	←R-	←R-	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	←R-	←R-	R	R	R	R	WK	WK	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	G	G	←R-	←R-	R	R	R	R	FL/DW	FL/DW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	←R-	←R-	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	R	R	R	R	R	R	←G-	←G-	G	G	R	R	DW	DW	DW	DW	DW	DW
7 CHANGE	R	R	R	R	R	R	←Y-	←Y-	G	G	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	←R-	←R-	G	G	G	G	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	←R-	←R-	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	R	R	←R-	←R-	G	G	G	G	DW	DW	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	R	R	←R-	←R-	G	G	G	G	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 AND 8 CHANGE	R	R	R	R	R	R	←R-	←R-	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	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)

TOD NO: XY132-10
SHA NO: MO458857
MD 355 @ Education Boulevard

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 355 (FEDERICK AVENUE) AT EDUCATION BOULEVARD
GAITHERSBURG, MD

REVISIONS		GENERAL INFORMATION SHEET	
SCALE: N.T.S. DATE: JAN 2013 CONTRACT NO.: XY1325185		DESIGNED BY: K. HENSON COUNTY: MONTGOMERY	LOGMILE: 15035513.85
DRAWN BY: K. HENSON		CHECKED BY: A. GRIFFIN	T.I.M.S. NO.: 1587
F.A.P. NO.:		TOD NO.:	
TS NO. 2542	DRAWING NO. pSG OF N001	SHEET NO. 2 OF 2	

SABRA, WANG & ASSOCIATES, INC.
7055 SAMUEL MORSE DRIVE
SUITE 100
COLUMBIA, MD 21046
(443) 741-3500
WWW.SABRA-WANG.COM

BY: khenson