

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL LOCATED AT THE INTERSECTION OF MD 355 AND WILSON DRIVE IN MONTGOMERY COUNTY.

THIS RECONSTRUCTION INCLUDES THE FOLLOWING:

INSTALL MAST ARMS POLE WITH MAST ARMS WITH A LUMINAIRE, BASE MOUNTED CABINET AUDIBLE TACTILE PUSHBUTTON STATION SIGNS, PEDESTAL POLE AND COUNTDOWN PEDESTRIAN SIGNAL HEADS AND BLACK FACED LED SIGNAL HEADS AT THE INTERSECTION OF MD 355 AND WILSON DRIVE.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA THREE PHASE, WITH ALT. PEDESTRIAN PHASE FOR CROSSING MD 355. THE THROUGH MOVEMENTS FOR MD 355 WILL OPERATE CONCURRENTLY. THE SIDE STREET WILL OPERATE ALONE.

AN ALTERNATE PEDESTRIAN MOVEMENT WILL BE PROVIDED FOR SOUTH LEG OF MD 355 A CONCURRENT PEDESTRIAN MOVEMENT WILL BE FOR THE WEST LEG OF WILSON DRIVE.

SPECIAL NOTES

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.

EQUIPMENT LIST

A. Equipment to be Supplied by the Administration.

Item	Description	Unit	Quantity
9042	[UPDATED] CONTROLLER ASC II WITH TELEMETRY	EA	1
9044	[UPDATED] CONTROLLER CABINET, SIZE 6	EA	1
9086	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1
9570	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN	SF	10
9571	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN	SF	15

B. Equipment to be Furnished and/or installed by the Contractor

Item	Description	Unit	Quantity
1001	MAINTENANCE OF TRAFFIC	EA	3
2002	TEST PIT EXCAVATION	CY	3
5004	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	315
5005	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	30
5007	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS	EA	3
6002	4 INCH CONCRETE SIDEWALK	SF	504
8001	12 INCH LED SIGNAL HEAD SECTION (R,Y,G)	EA	21
8002	2 WIRE CENTRAL CONTROL UNIT	EA	1
8008	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EA	4
8009	BREAKAWAY PEDESTAL POLE (ANY SIZE)	EA	3
8014	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS	EA	4
8017	MAST ARM POLE AND 60 FT MAST ARM ANY T DIMENSION	EA	1
8022	REM AND DISPOSE MAT AND EQUIP PER ASSIGN	EA	1
8023	TWIN MAST ARM POLE AND 50 FT / 60 FT MAST ARMS ANY T DIMENSION	EA	1
8026	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FEET	EA	1
8031	CABLE- 1 CONDUCTOR, 250 KCML, CU, USE	LF	35
8034	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - SLOTTED	LF	250
8035	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED	LF	185
8036	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED	LF	105
8037	WOOD SIGN SUPPORTS UP TO 4 X 6	LF	35
8038	DETECTABLE WARNING SURFACES	SF	24
8039	INSTALL OVERHEAD OR GROUND MOUNTED SIGN - INCLUDING ALL HARDWARE	SF	25
8041	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	500
8043	METERED SERVICE PEDESTAL EMBEDDED	EA	1
8047	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	5
8054	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	760
8056	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	870
8057	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	635
8065	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA.

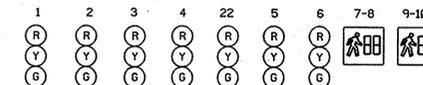
Item	Description	Unit	Quantity
	CONTROLLER AND CABINET	EA	1
	VIDEO CAMERA	EA	2

PROJECT CONTACTS

The contact persons are as follows:

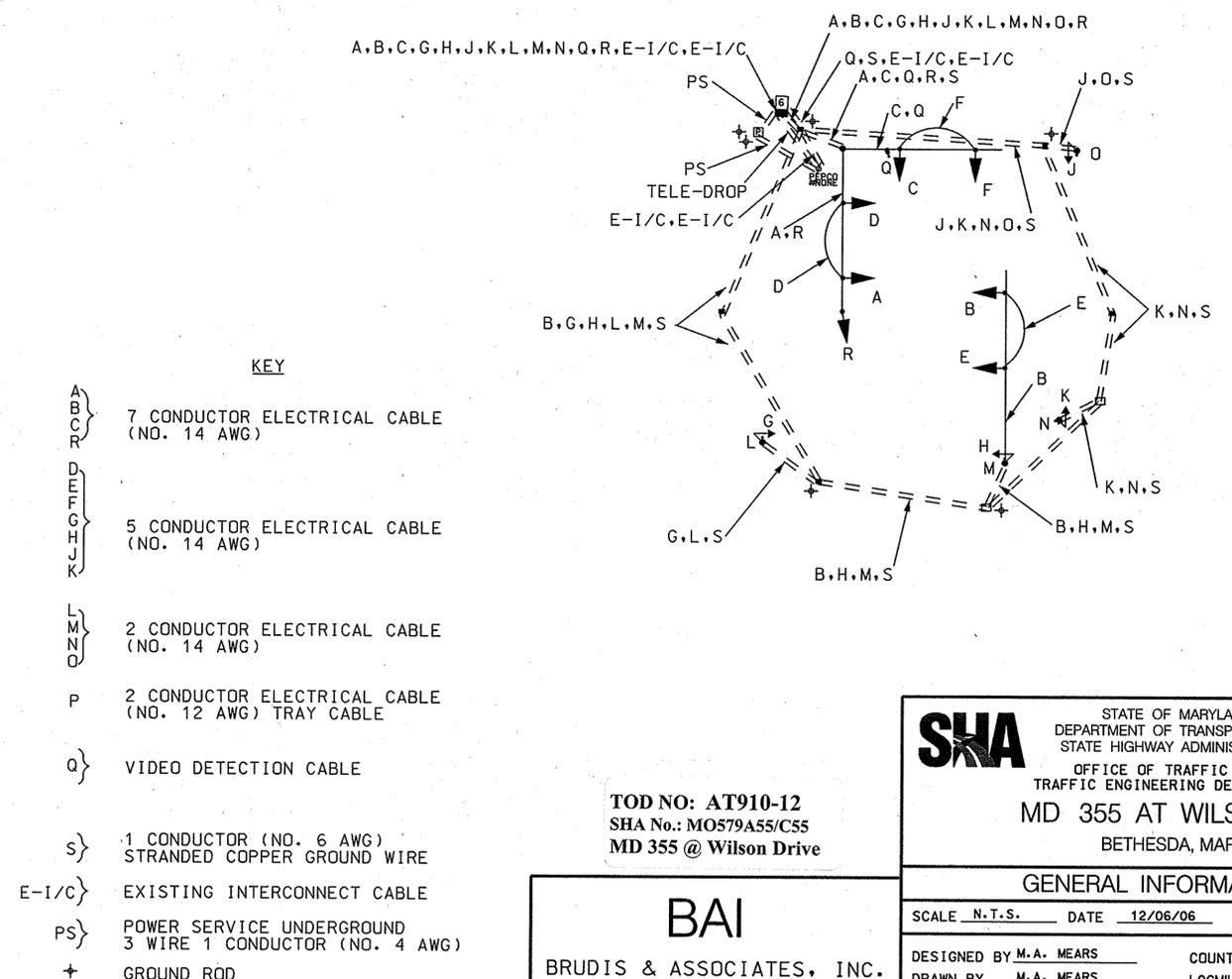
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Assistant Chief, Traffic Operations Division
Phone: (410) 787-7631
Mr. Ed Rodenhizer
Supervisor, Signal Operations
Phone: 410-787-7650
Mr. Kamal Hamud
Montgomery County
Phone: 240-777-8761

PHASE CHART



Phase 2 & 6	G	G	G	G	R	R	R	WK	DW	
Ped. Clear	G	G	G	G	R	R	R	FL/DW	DW	←
2 & 6 Change	Y	Y	Y	Y	R	R	R	DW	DW	→
Phase 4	R	R	R	R	G	G	G	DW	DW	↑
4 Change	R	R	R	R	Y	Y	Y	DW	DW	↑
Phase 4 Alt.	R	R	R	R	G	G	G	DW	WK	↑
Ped. Clear	R	R	R	R	G	G	G	DW	FL/DW	↑
4 Alt. Change	R	R	R	R	Y	Y	Y	DW	DW	↑
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	↕

WIRING DIAGRAM



TOD NO: AT910-12
SHA No.: MO579A55/C55
MD 355 @ Wilson Drive

BAI
BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUMSEY ROAD SUITE 110
COLUMBIA, MARYLAND 21045
410-884-3607 410-884-3609(FAX)

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 355 AT WILSON DRIVE
BETHESDA, MARYLAND

GENERAL INFORMATION PLAN
SCALE N.T.S. DATE 12/06/06 CONTRACT NO. AT9105185
DESIGNED BY M.A. MEARS COUNTY MONTGOMERY
DRAWN BY M.A. MEARS LOGMILE 15035502.94
CHECKED BY _____ T.I.M.S. NO. H556
F.A.P. NO. _____ TOD NO. _____
DRAWING NO. 4387-C-G1 OF _____ SHEET NO. 2 OF 2

BY: BMALCOLM