PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING CONTROL SIGNAL TO INSTALL EXCLUSIVE LEFT-TURN PHASING FOR SOUTHBOUND MD 355 APPROACH AND INSTALLATION OF ADA COMPLIANT PEDESTRIAN PUSHBUTTONS TO THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 355 (FREDERICK ROAD) AND SHADY GROVE ROAD IN MONTGOMERY COUNTY, MARYLAND. MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 355 APPROACHES OPERATING CONCURRENTLY AND THE SHADY GROVE APPROACHES OPERATING SPLIT.

EXCLUSIVE LEFT-TURN PHASING EXISTS FOR THE NORTHBOUND MD 355 APPROACH.

EXCLUSIVE LEFT-TURN PHASING WILL BE PROVIDED FOR THE SOUTHBOUND MD 355 APPROACH.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH LEG OF MD 355 AND PEDESTRIAN INDICATIONS ARE PROVIDED ACROSS BOTH LEGS OF SHADY GROVE ROAD.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.04-01 (SHOULDER WORK)
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.04-07 (CENTER LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. LEE STARKLOFF, MONTGOMERY
PHONE: (301) 513-7368
ASSISTANT DISTRICT ENGINEER - TRAFFIC

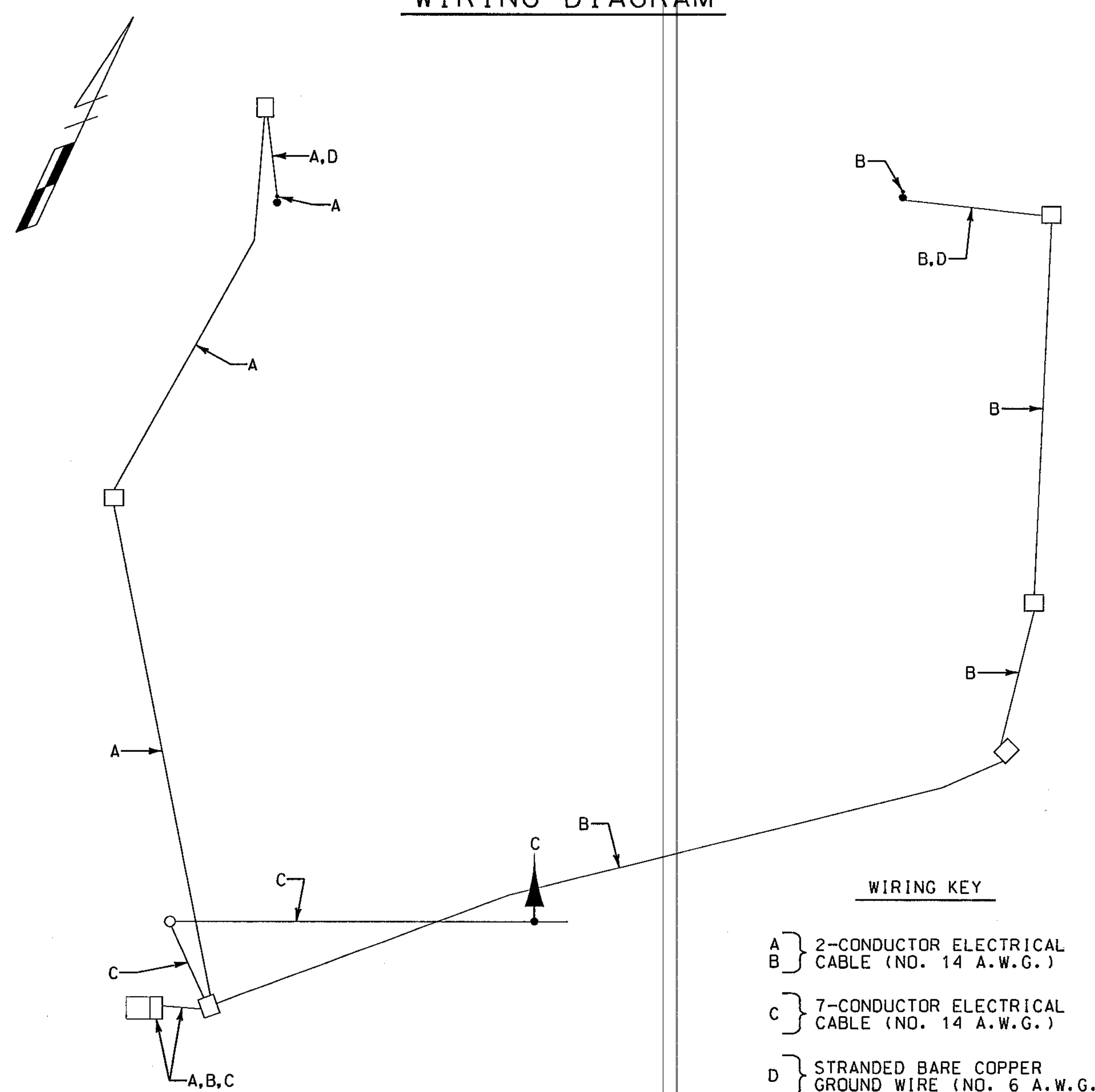
MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. AUGIE REBISH
DISTRICT UTILITY ENGINEER
PHONE: (301) 513-7350

MR. ROBERT GONZALES
MONTGOMERY COUNTY TMC
PHONE: (240) 777-8761

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM



WIRING KEY

A, B } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

D } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

EQUIPMENT LIST "A"

NO EQUIPMENT TO BE SUPPLIED BY SHA

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

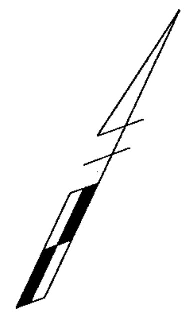
ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

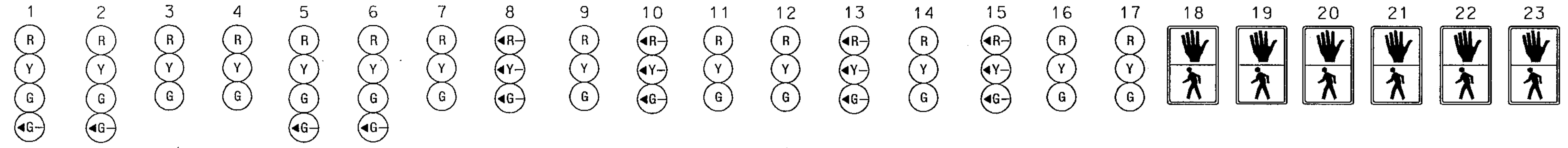
EQUIPMENT LIST "B"

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

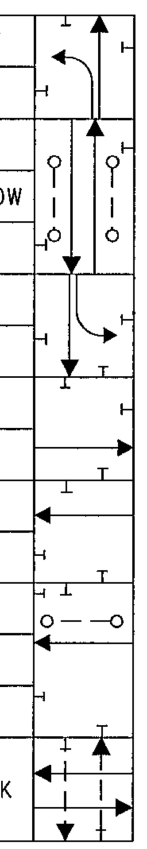
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	2 C.Y.	TEST PIT EXCAVATION
8009	2 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8011	2 EACH	FURNISH AND INSTALL PUSHBUTTON AND SIGN
8013	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT
8016	30 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8023	25 S.F.	REMOVE AND RESET DECORATIVE BRICK PAVERS
8024	2 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
8026	45 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8056	9 EACH	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8057	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8059	590 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G)
8062	135 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G)

PHASE CHART





	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
PHASE 1 + 5	←R—	←R—	R	R	←R—	←R—	R	←G—	G	←G—	G	G	←R—	R	←R—	R	R	DW	DW	DW	DW	DW	DW
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 2 + 5 OR PHASE 2 + 6																						
PHASE 2 + 5	←R—	←R—	R	R	←R—	←R—	R	←R—	G	←R—	G	G	←R—	G	←R—	G	G	DW	DW	WK	WK	WK	WK
PED CLEARANCE	←R—	←R—	R	R	←R—	←R—	R	←R—	G	←R—	G	G	←R—	G	←R—	G	G	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
2 + 5 CHANGE	←R—	←R—	R	R	←R—	←R—	R	←R—	Y	←R—	Y	Y	←R—	Y	←R—	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 2 + 6	←R—	←R—	R	R	←R—	←R—	R	←R—	R	←R—	R	R	←G—	G	←G—	G	G	DW	DW	DW	DW	DW	DW
2 + 6 CHANGE	←R—	←R—	R	R	←R—	←R—	R	←R—	R	←R—	R	R	←Y—	Y	←Y—	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 3	←G—	←G—	G	R	←R—	←R—	R	←R—	R	←R—	R	R	←R—	R	←R—	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	←Y—	←Y—	Y	R	←R—	←R—	R	←R—	R	←R—	R	R	←R—	R	←R—	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	←R—	←R—	R	G	←G—	←G—	G	←R—	R	←R—	R	R	←R—	R	←R—	R	R	DW	DW	DW	DW	DW	DW
4 CHANGE	←R—	←R—	R	Y	←Y—	←Y—	Y	←R—	R	←R—	R	R	←R—	R	←R—	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	←R—	←R—	R	G	←G—	←G—	G	←R—	R	←R—	R	R	←R—	R	←R—	R	R	WK	WK	DW	DW	DW	DW
PED CLEARANCE	←R—	←R—	R	G	←G—	←G—	G	←R—	R	←R—	R	R	←R—	R	←R—	R	R	FL/DW	FL/DW	DW	DW	DW	DW
4 ALT CHANGE	←R—	←R—	R	Y	←Y—	←Y—	Y	←R—	R	←R—	R	R	←R—	R	←R—	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	←FL/R—	FL/Y	←FL/R—	FL/Y	FL/Y	←FL/R—	FL/Y	←FL/R—	FL/Y	FL/Y	DARK	DARK	DARK	DARK	DARK	DARK



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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET
MD 355 (FREDERICK RD) & SHADY GROVE RD

DRAWN BY:	S. BLOSS	F.A.P. NO.		TS NO. 2382B	SHEET NO.
CHECKED BY:	N. LEARY	S.H.A. NO.	AT5825185		
SCALE:	NONE	COUNTY:	MONTGOMERY	T.I.M.S. NO. F739	2 OF 2
DATE:	9/30/2004	LOG MILE:			

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