PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC CONTROL SIGNAL AND PEDSTRIAN CROSSING EQUIPMENT AT THE INTERSECTION OF MD 28 (W. MONTGOMERY AVENUE) AND NELSON STREET IN MONTGOMERY COUNTY, MARYLAND. MD 28 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FIVE (5) PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE EASTBOUND MOVEMENT AT MD 28 AND A RIGHT TURN OVERLAP FOR SOUTHBOUND NELSON STREET. THE MD 28 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH A CONCURRENT PEDESTRIAN MOVEMENT CROSSING THE NORTH AND SOUTH LEGS OF THE INTERSECTION. THE NELSON STREET THROUGH MOVEMENTS WILL OPERATE IN A SPLIT PHASE MODE WITH AN ACTUATED PEDESTRIAN MOVEMENT CROSSING THE EAST LEG OF THE INTERSECTION.

THE EXISTING CABINET/CONTROLLER WILL BE UTILIZED. INSTALL VIDEO DETECTION AND PEDESTRAIN EQUIPMENT.

EQUIPMENT LIST "A"

A. THE ADMINISTRATION SHALL NOT SUPPLY ANY EQUIPMENT.

EQUIPMENT LIST "B"

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

CATEGORY CODE NO.	QUANTITY	UNIT	DESCRIPTION
120500	LS	LS	MAINTENANCE OF TRAFFIC
861117	1000	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861116	100	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
800000	6	EA	16 IN., ONE-WAY, COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
585424	35	LF	24 INCH WHITE LEAD FREE REFLECTIVE TERMOPLASTIC PAVEMENT MARKING
585412	100	LF	12 INCH WHITE LEAD FREE REFLECTIVE TERMOPLASTIC PAVEMENT MARKING
866104	1	EA	20 FT LIGHTING ARM ON SIGNAL STRUCTURE

EQUIPMENT LIST "C"

C. ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

PROJECT CONTACTS

THE CONTACT PERSON FOR DISTRICT #3 ARE AS FOLLOWS:

MR. LEE STARKLOFF
ASSISTANT DISTRICT
ENGINEER - TRAFFIC
(301) 513-7358

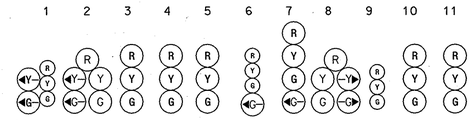
MR. AUGIE REBISH
ASSISTANT DISTRICT
ENGINEER - UTILITY
(301) 513-7350

DR. WILHELM DERMINASSIAN
MONTGOMERY COUNTY
TRAFFIC
(240) 777-8795

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

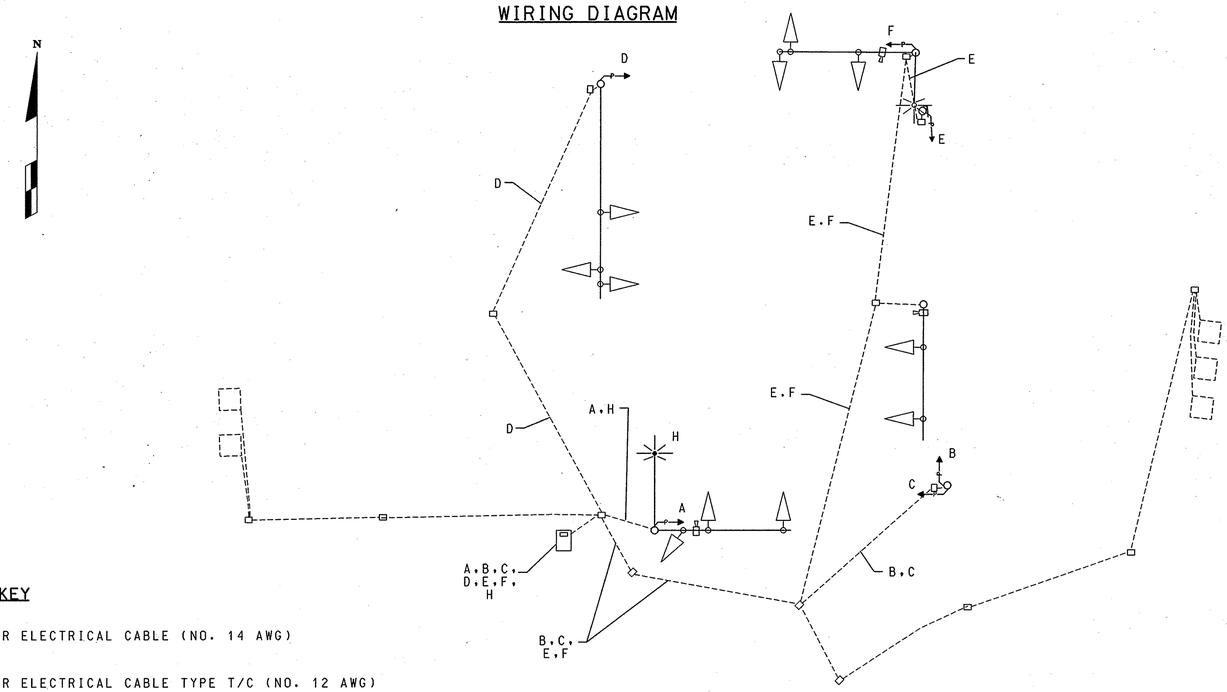
MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
DIVISION
(410) 787-7630

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12a, 13, 16a, 14a, 15, 17a		
PHASE 1 & 6	G/G	G/G	G	R	R	R	R	R/G	R	R	R	DW	WK	DW
1 CHANGE	G/Y	G/Y	G	R	R	R	R	R/Y	R	R	R	DW	WK	DW
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	R	WK	WK	DW
PED CLEARANCE & COUNT DOWN	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	R/G	G	G	G	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R/Y	Y	Y	Y	DW	DW	DW
PHASE ALT 3	R	R	R	R	R	R	R	R/G	G	G	G	DW	DW	WK
PED CLEARANCE & COUNT DOWN	R	R	R	R	R	R	R	R/G	G	G	G	DW	DW	FL/DW
ALT 3 CHANGE	R	R	R	R	R	R	R	R/Y	Y	Y	Y	DW	DW	DW
PHASE 4	R	R	R	R	R	G/G	G/G	G/G	R	R	R	DW	WK	DW
PED CLEARANCE & COUNT DOWN	R	R	R	R	R	G/G	G/G	G/G	R	R	R	DW	FL/WK	DW
4 CHANGE	R	R	R	R	R	Y	Y	Y/Y	R	R	R	DW	WK	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A,B,C, D,E,F - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

H - 2 CONDUCTOR ELECTRICAL CABLE TYPE T/C (NO. 12 AWG)

GENERAL NOTES

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

MD 28 (W. Montgomery Avenue) at
Nelson Street / I-270 NB Off Ramp

PREPARED BY					
URS HUNT VALLEY, MARYLAND	DRAWN BY: K.J.S.	F.A.P. NO. STP-1 (757) E	TS NO. 244 G	SHEET NO.	
	CHECKED BY: T.A.R.	S.H.A. NO. M06745125R			
	SCALE: NO SCALE	COUNTY: MONTGOMERY	T.I.M.S. NO. H182	2 OF 2	
	DATE: 10-2005	LOG MILE: I5002826.09			

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