

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES INSTALLATION OF APS/CPS OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 27 (RIDGE ROAD) AND MD 108 (MAIN STREET) IN MONTGOMERY COUNTY, MD 27 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FIVE-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND MD 27, THE MD 108 EASTBOUND AND WESTBOUND THRU MOVEMENTS WILL OPERATE CONCURRENTLY, THE MD 27 SOUTHBOUND AND DRIVEWAY THRU MOVEMENTS WILL OPERATE IN SPLIT PHASING, RIGHT TURN OVERLAPS ARE PROVIDED FOR MD 27 SOUTHBOUND AND MD 108 WESTBOUND MOVEMENTS, THERE ARE PEDESTRIAN PHASES FOR THE NORTH AND SOUTH LEGS OF THE INTERSECTION, THERE ARE ALTERNATE PEDESTRIAN PHASES FOR THE EAST AND WEST LEGS OF THE INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. XY1515185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

CATEGORY	QUANTITY	UNIT	DESCRIPTION
900000	8	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
	8	EA	R10-3(f) (9" x 15") POLE MOUNTED

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

CATEGORY	QUANTITY	UNIT	DESCRIPTION
100000	1	EA	MAINTENANCE OF TRAFFIC
201032	4	CY	CLASS 2 EXCAVATION
203030	4	CY	TEST PIT EXCAVATION
585619	35	LF	5 INCH YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585621	990	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	25	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700	1030	LF	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
600000	210	LF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000	140	LF	TYPE A CURB ANY HEIGHT OR DEPTH
655105	1800	SF	5 INCH CONCRETE SIDEWALK
655120	90	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
704345	4	SY	PLACING FURNISHED TOPSOIL 4 INCH DEPTH
705500	4	SY	TURFGRASS ESTABLISHMENT
708220	4	SY	TURFGRASS SOD ESTABLISHMENT
800000	1	EA	2-WIRE APS CENTRAL CONTROL UNIT
800000	8	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	8	EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	1	EA	REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT
800000	8	EA	5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
800000	160	LF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000	8	SF	THIRD PARTY CONCRETE TESTING
800000	1	EA	ADJUST HANDHOLE TO GRADE AND REPLACE FRAME AND COVER
802501	160	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
861105	1150	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1150	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C. EQUIPMENT TO BE REMOVED.

ALL EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

CONTACTS

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Assistant Chief, Traffic Operations Division
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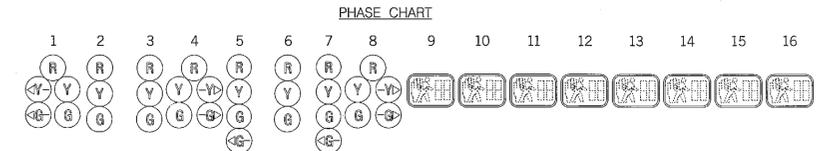
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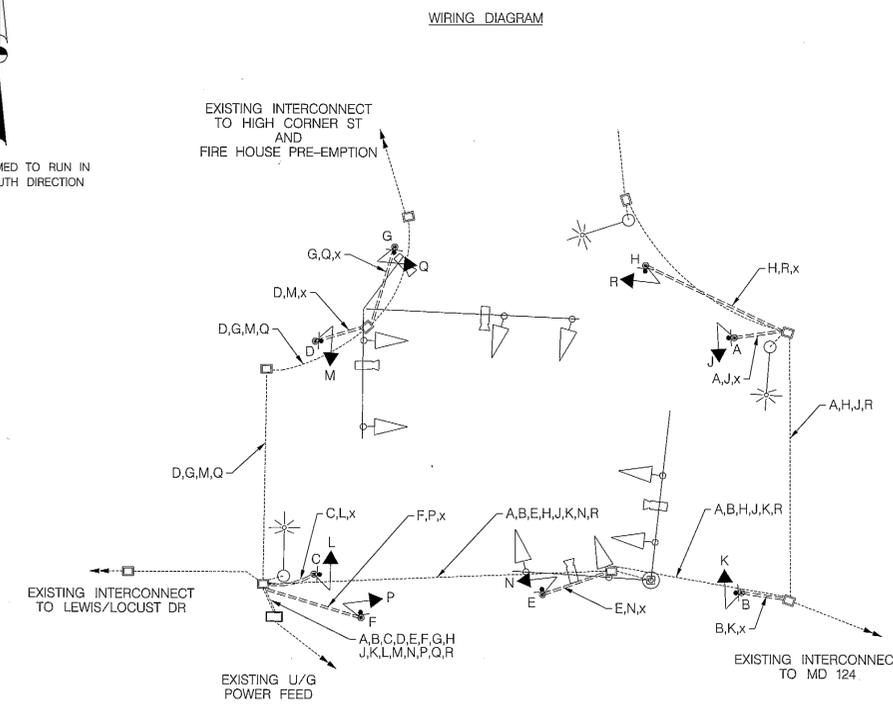
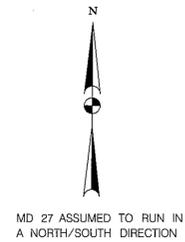
Mr. Bob Ricketts
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Montgomery County DOT
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PHASE 1 AND 6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 AND 6	←G/G	G	R	R	R	R	R	R/G→	DW	DW	DW	DW	DW	DW	WK	WK
1 CHANGE	←Y/G	G	R	R	R	R	R	R/Y→	DW	DW	DW	DW	DW	DW	WK	WK
PHASE 2 AND 6	G	G	G	G	R	R	R	R	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
PED CLEARANCE	G	G	G	G	R	R	R	R	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW							
PHASE 3	R	R	R	R/G→	R	R	←G/G	G	DW							
3 CHANGE	R	R	R	R/Y→	R	R	Y	Y	DW							
PHASE 3 ALT	R	R	R	R/G→	R	R	←G/G	G	DW							
PED CLEARANCE	R	R	R	R/G→	R	R	←G/G	G	DW	DW	WK	WK	DW	DW	DW	DW
3 ALT CHANGE	R	R	R	R/Y→	R	R	Y	Y	DW	DW	FL/DW	FL/DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	←G/G	G	R	R	DW							
4 CHANGE	R	R	R	R	Y	Y	R	R	DW							
PHASE 4 ALT	R	R	R	R	←G/G	G	R	R	WK	WK	DW	DW	DW	DW	DW	DW
PED CLEARANCE	R	R	R	R	←G/G	G	R	R	FL/DW	FL/DW	DW	DW	DW	DW	DW	DW
4 ALT CHANGE	R	R	R	R	Y	Y	R	R	DW							
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK							

EMERGENCY VEHICLE PRE-EMPTION

PRE-EMPTION 1	R	R	R	R	R	R	←G/G	G	DW							
PRE-EMP. 1 CHANGE	R	R	R	R	R	R	Y	Y	DW							



WIRING KEY

A,B,C,D	}	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
E,F,G,H		
J,K,L,M	}	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
N,P,Q,R		
x	}	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 27 (RIDGE ROAD) AT
MD 108 (MAIN STREET)
DAMASCUS, MD

GENERAL INFORMATION PLAN SHEET

SCALE NONE ADVERTISED DATE 03/2013 CONTRACT NO. XY1515185

DESIGNED BY DM COUNTY MONTGOMERY
DRAWN BY DM LOGMILE 15002706.56
CHECKED BY RM TMS NO. L711
F.A.P. NO. TOD NO.

TS NO. 1013-F DRAWING GI-1 OF 1 SHEET NO. 3 OF 3

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PLOTTED: Thursday, April 04, 2013 AT 10:27 AM
FILE: P:\09-002 TEDD\Task 108 MD 27 Signals\Drawings\CAOD\Working\MD27@MD108.pgn-P003_MD27@MD108.dgn

BY: fanrong