PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES A TRAFFIC SIGNAL MODIFICATION CONVERTING MD 2 NORTHBOUND AND SOUTHBOUND LEFT TURNS FROM EXCLUSIVE/PERMISSIVE TO EXCLUSIVE. UPGRADING ALL THE EXISTING SIGNAL HEADS TO LED SIGNAL HEADS AT THE EXISTING SIGNALIZED INTERSECTION MD 2 (SOLOMONS ISLAND ROAD) AND MITCHELLS CHANCE ROAD IN ANNE ARUNDEL COUNTY. THE EXISTING BASE-MOUNTED CABINET SHALL BE UTILIZED.

MD 2 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION SHALL OPERATE IN A NEMA SEVEN- PHASE, FULL-ACTUATED MODE. MD 2 THROUGH MOVEMENTS OPERATE CONCURRENTLY, WITH EXCLUSIVE LEFT TURNS FOR BOTH APPROACHES. THE SOUTHBOUND EXCLUSIVE LEFT TURN SHALL BE REPEATED AS AN OVERLAP MOVEMENT OPERATING CONCURRENTLY WITH MD 2 SOUTHBOUND THROUGH MOVEMENT. MITCHELLS CHANCE ROAD THROUGH MOVEMENTS SHALL OPERATE CONCURRENTLY.

PROJECT CONTACTS

THE CONTACT PERSONS FOR THE SHA ARE AS FOLLOWS:

MRS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER-TRAFFIC
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MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS DIVISION
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MR. ANDRE' FUTRELL
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
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MR. JOHN S. MAYS
DISTRICT UTILITY ENGINEER
PHONE: (410) 841-1039

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
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MR. MARK COBLENTZ
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MR. JEFFREY A. HENKEL
PROJECT MANGER - TRAFFIC ENGINEERING
DESIGN DIVISION PHONE: (410) 787-4046

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9001	15 SF	SHEET ALUMINIUM SIGNS MAST ARM/POLE MOUNTED
	2 EA	R3-5R "LANE USE CONTROL - LEFT ONLY"(30"x36")

EQUIPMENT LIST "B"

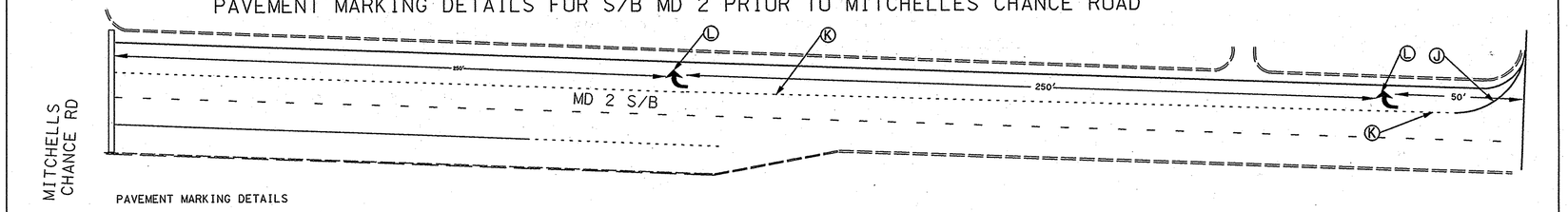
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5001	110 LF	F & I 5" White Lead Free Reflective Thermoplastic Pavement Markings
5005	360 EA	Removal of Existing Permanent Pavement Line Markings - Any Width
5008	2 EA	F & I Heat Applied White Permanent Preformed Thermoplastic Pavement Marking Arrows
8001	38 EA	12" LED SIGNAL HEAD SECTION
8007	6 EA	8" LED SIGNAL HEAD SECTION
8017	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8028	8 SF	RELOCATE EXISTING SIGN
8046	15 SF	INSTALL OVERHEAD SIGN
8060	1475 LF	ELECTRTICAL CABLE 5 - CONDUCTOR (NO 14 AWG)

EQUIPMENT LIST "C"

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

PAVEMENT MARKING DETAILS FOR S/B MD 2 PRIOR TO MITCHELLES CHANCE ROAD



PAVEMENT MARKING DETAILS

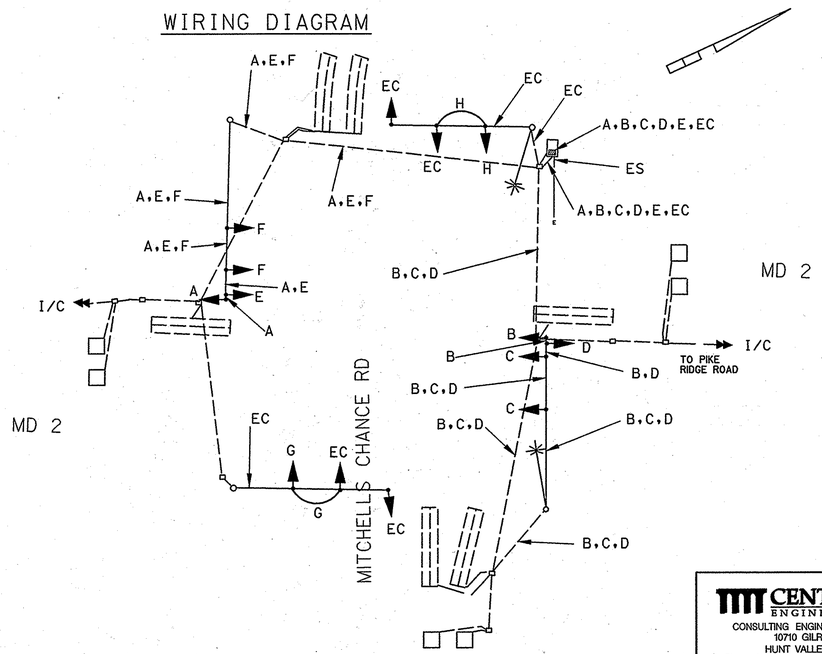
J. REMOVE EXISTING PAVEMENT MARKING
K. REMOVE EXISTING SOLID WHITE LINE, INSTALL TYPE I PUPPY 3'-9'-3'
L. INSTALL PAVEMENT MARKING ARROW AS SHOWN

SPECIAL PHASING NOTE:
S/B MD 2 LEFT TURN WILL OPERATE AS LEAD AND LAG LEFT TURN PHASES.
PHASE 5 WILL RUN THE LEAD LEFT WITH PHASE 1 OR PHASE 2.
PHASE 3 WILL RUN AS THE LAG LEFT WITH PHASE 2.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	R
Phase 1 + 5 lead	◄G—	◄G—	R	R	◄G—	◄G—	R	R	R	R	R -G-▷	R	R	R	
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 + 6 OR 2 + 5 OR 2 + 6														
Phase 1 + 6	◄G—	◄G—	G	G	◄R—	◄R—	R	R	R	R	R	R	R	R	
1 Change	◄Y—	◄Y—	G	G	◄R—	◄R—	R	R	R	R	R	R	R	R	
Phase 2 + 5 lead	◄R—	◄R—	R	R	◄G—	◄G—	G	G	R	R	R -G-▷	R	R	R	
5 Change	◄R—	◄R—	R	R	◄Y—	◄Y—	G	G	R	R	R -Y-▷	R	R	R	
Phase 2 + 6	◄R—	◄R—	G	G	◄R—	◄R—	G	G	R	R	R	R	R	R	
2 + 6 Change	◄R—	◄R—	Y	Y	◄R—	◄R—	Y	Y	R	R	R	R	R	R	
Phase 3 Lag Left	◄R—	◄R—	R	R	◄G—	◄G—	G	G	R	R	←G-▷	R	R	R	
3 Lag Change	◄R—	◄R—	R	R	◄Y—	◄Y—	Y	Y	R	R	R -Y-▷	R	R	R	
Phase 4 + 8	◄R—	◄R—	R	R	◄R—	◄R—	R	R	G	G	G	G	G	G	
4 + 8 Change	◄R—	◄R—	R	R	◄R—	◄R—	R	R	Y	Y	Y	Y	Y	Y	
Flashing Operation	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

WIRING DIAGRAM



WIRING KEY

A-G - ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)

ES - EXISTING UNDERGROUND SERVICE FEED

I/C - EXISTING UNDERGROUND INTERCONNECT CABLE

EC - EXISTING CABLE

TOD NO: AT936-02
SHA No.: AA522A51/C51
MD 2 @ Mitchells Chance Road

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 2 (SOLOMONS ISLAND RD) AND MITCHELLS CHANCE ROAD
SOUTH RIVER COLONY, MARYLAND

SCALE NONE DATE 11-13-2006 CONTRACT NO. AT9365185

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031
Phone: (410) 823-8070 Fax: (410) 823-2184
REVISION 'C' 25003.48

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COUNTY ANNE ARUNDEL
LOGMILE 02000216.61
TIMS NO. H 868
TOD NO. 3225C

TS NO. 3225C | DRAWING 2 OF 2 | SHEET NO. 2 OF 2

PLOTTED: Thursday, January 25, 2007 at 10:38:16 AM
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BY: bmalcolm