

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES REMOVING THE EXISTING LOOP DETECTORS AND INSTALL VIDEO DETECTION AND NON-INVASIVE PROBES FOR ALL APPROACHES OF THE INTERSECTION. APS/GPS PEDESTRIAN SIGNALS SHALL BE INSTALLED ON THE SOUTH LEG CROSSING OF THE INTERSECTION. MD 450 / MD 704 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

1. THE INTERSECTION SHALL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE, WITH THE EASTBOUND MD 704 (MARTIN LUTHER KING JR HWY) AND WESTBOUND MD 450 (ANNAPOLIS RD) APPROACHES RUNNING CONCURRENTLY. THE EASTBOUND AND WESTBOUND LEFT TURN MOVEMENTS RUN AS A EXCLUSIVE-PERMISSIVE LEFT TURN PHASE. SOUTHBOUND ANNAPOLIS RD (MD 450) AND NORTHBOUND VISTA GARDENS DRWY WILL CONTINUE TO OPERATE IN SPLIT PHASE. AUDIBLE ACTUATED PEDESTRIAN SIGNALS SHALL BE INSTALLED ON THE SOUTH LEG OF THE INTERSECTION.

III. SPECIAL NOTES:

1. APS WILL FUNCTION AS FOLLOWS:

- TO CROSS VISTA GARDENS DRWY FROM THE WEST
- WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:
"WAIT TO CROSS VISTA GARDENS AT MARTIN LUTHER KING JR. WAIT."
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

- TO CROSS VISTA GARDENS DRWY FROM THE EAST
- WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:
"WAIT TO CROSS VISTA GARDENS AT ANNAPOLIS. WAIT."
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

2. THE CONTRACTOR SHALL PURCHASE AND DELIVER THE 2-WIRE CENTRAL CONTROL UNIT FOR THE CONTROLLER TO SHA SIGNAL SHOP, AT 7491 CONNELLY ROAD, HANOVER, MD 21076. MR. EDWARD RODENHIZER AT 410-787-7652 SHALL BE CONTACTED AT LEAST 3 DAYS PRIOR TO THE DELIVERY.

THE CONTACT PERSONS FOR DISTRICT #3 (PRINCE GEORGES COUNTY) ARE AS FOLLOWS:

DISTRICT (DISTRICT 3 - PRINCE GEORGE'S)

MR. BRIAN YOUNG
DISTRICT ENGINEER
301-513-7311

MR. VENU NEMANI
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7404

MR. VICTOR GRAFTON
DISTRICT UTILITY ENGINEER
301-513-7350

MR. KEVIN NOWAK & MR. DUANE BERNARD
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7336

MR. TOM FOUNTAIN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

OFFICE OF TRAFFIC AND SAFETY

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS SECTION
410-787-7670

MR. MICHAEL STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7696

UTILITY CONTACT

PEPCO
MR. RICHARD CHILCOAT
(301)967-5820
8300 OLD MARLBORO PIKE
UPPER MARLBORO, MD 20772-0772

EQUIPMENT LIST

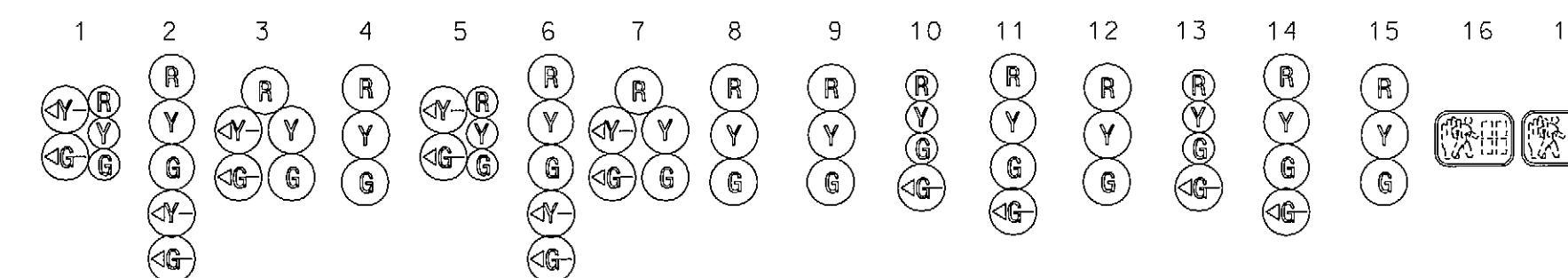
A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

CATEGORY CODE	QTY	UNITS	DESCRIPTION
---------------	-----	-------	-------------

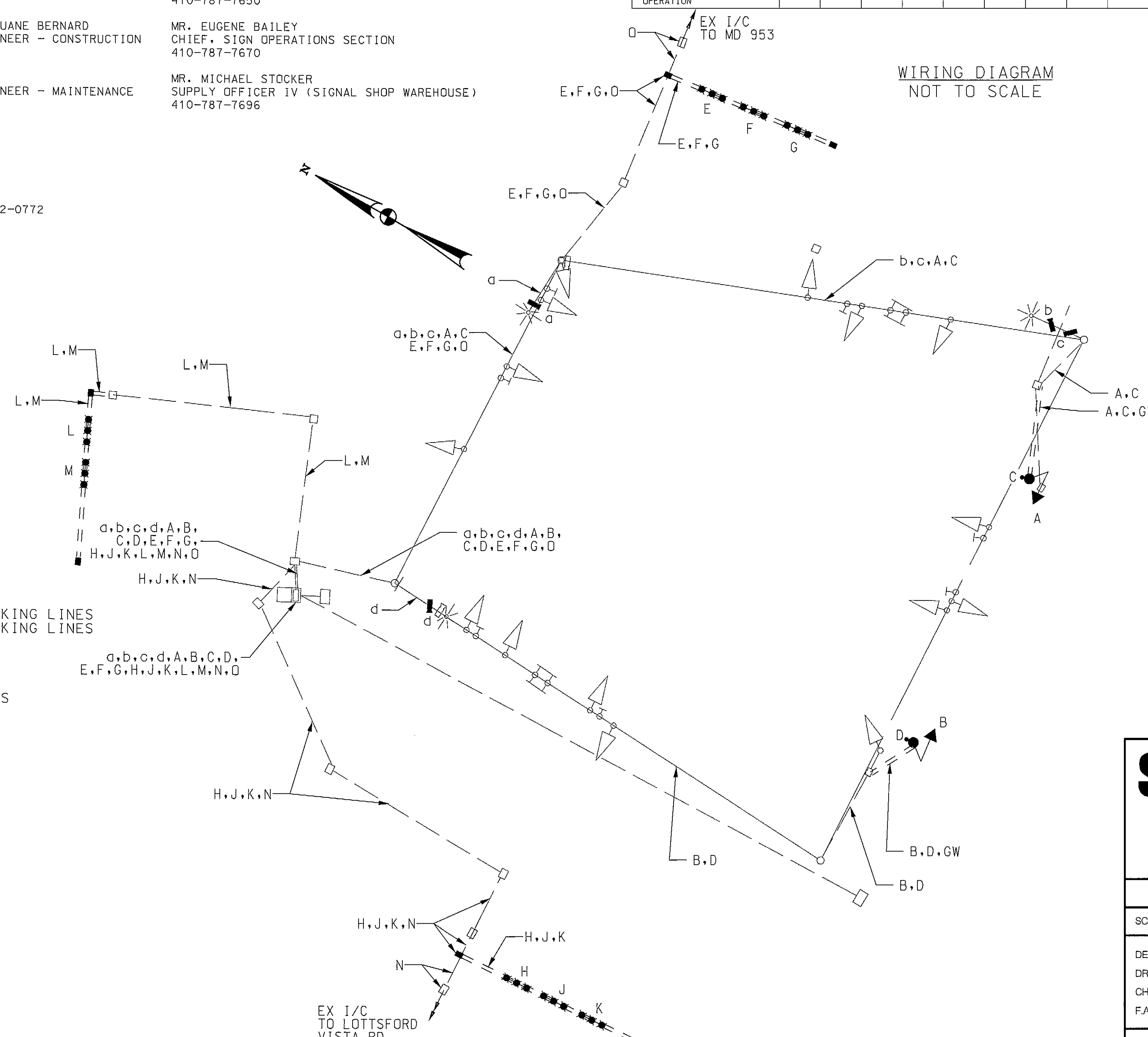
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QTY	UNITS	DESCRIPTION
585621	105	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	140	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
800000	1	EA	2 WIRE CENTRAL CONTROL UNIT
800000	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
800000	4	EA	IP-BASED VIDEO DETECTION CAMERA AND CABLE
800000	1	LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
800000	2,750	LF	DISCONNECT, PULL-BACK, AND RE-ROUTE EXISTING CABLES
802501	45	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	45	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805150	180	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
810605	8	EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	6	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
818004	2	EA	10 FOOT BREAKAWAY PEDESTAL POLE
860265	2	EA	RELOCATE EXISTING SIGNAL HEAD
861105	725	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	715	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



PHASE 1 & 5	<G-/R	R	<G-/R	R	<G-/R	R	<G-/R	R	R	R	R	R	R	R	R	R	R	DW	DW	L
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																				
PHASE 1 & 6	<G-/G	G	<G-/G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	WK	WK	L
1 & 6 CHANGE	<Y-/G	Y	<Y-/G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	WK	WK	L
PHASE 2 & 5	R	R	R	R	<G-/G	G	<G-/G	G	G	R	R	R	R	R	R	R	R	DW	DW	L
2 & 5 CHANGE	R	R	R	R	<Y-/G	Y	<Y-/G	G	G	R	R	R	R	R	R	R	R	DW	DW	L
PHASE 2 & 6	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R	R	R	WK	WK	L
PED CLEAR / COUNTDOWN	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R	R	R	FL/DW	FL/DW	L
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	DW	DW	L
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	L
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	L
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	L
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	L
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	L



WIRING DIAGRAM NOT TO SCALE

- WIRING KEY**
- a) VIDEO DETECTION CAMERA LEAD-IN CABLE
 - A) 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - B) 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - C) NON-INVASIVE MICROLOOP PROBE WITH 1,000 FT LEAD-IN CABLE
 - D) PULL BACK AND RE-ROUTE EXISTING INTERCONNECT CABLE FROM LOTTSFORD VISTA RD
 - E) PULL BACK AND RE-ROUTE EXISTING INTERCONNECT CABLE FROM MD 953
 - F) 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**ANNAPOLIS ROAD (MD 450) AT
M.L. KING JR HWY (MD 704)**
MITCHELLVILLE, MD

GENERAL INFORMATION SHEET

SCALE NONE DATE 5/13/13 CONTRACT NO. PG7865377

DESIGNED BY SJW COUNTY PRINCE GEORGE'S
DRAWN BY SJW LOGMILE 16045007.35
CHECKED BY AJM T.I.M.S. NO. L525
F.A.P. NO. TOD NO.

TS NO. 3167D-GI DRAWING NO. SG-10 OF 10 SHEET NO. OF

T3 design
T3 DESIGN CORP
3927 OLD LEE HWY
SUITE 101-C
FAIRFAX, VA 22030
PHONE: 703-359-6861
www.t3design.us