PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT MD 414 (OXON HILL ROAD)/SB MD 210 OFF RAMP (WEST LOOP)/BALD EAGLE ROAD. THIS INTERSECTION IS INTERCONNECTED WITH MD 414/SOUTH ROAD AND NB MD 210 OFF RAMP (EAST CONNECTOR) VIA COMMUNICATION CABLE. INTERSECTION LIGHTING PROVIDED AT THIS LOCATION. IT IS ASSUMED THAT MD 414 (OXON HILL ROAD) RUNS IN AN EAST- WEST DIRECTION. A FLASHING BEACON IS INSTALLED ALONG THE EASTBOUND APPROACH TO THIS INTERSECTION. THE POSTED SPEED LIMIT IS 30 MPH.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE OPERATION, FULLY -ACTUATED MODE. MD 414 (OXON HILL) ROAD APPROACHES WILL OPERATE CONCURRENTLY. A SEPARATE PHASE FOR THE SB MD 210 OFF RAMP (WEST LOOP) WILL BE PROVIDED. AN ALTERNATE PEDESTRIAN PHASE WILL RUN CONCURRENTLY WITH THE SB MD 210 OFF RAMP APPROACH.

PEDESTRIAN OPERATION

NAVIGATOR AUDIBLE PEDESTRIAN PUSH BUTTON MOVEMENTS TO CROSS THE EAST AND SOUTH LEGS OF THE INTERSECTION ARE TO BE PROVIDED. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSH BUTTON FOR AN EXTENDED TIME, THE PUSH BUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:
SOUTH: "WAIT TO CROSS RAMP AT OXON HILL."
EAST: "WAIT TO CROSS OXON HILL AT BALD EAGLE."

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 3 ARE:
MR. BRIAN YOUNG
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7358

MR. AUGUSTINE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
301-513-7350

MR. VERNON STINNETT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

THE POWER COMPANY REPRESENTATIVES ARE:
MR. RICHARD CHILCOAT
POTOMAC ELECTRIC POWER COMPANY
- ELECTRIC SERVICE
301-967-5805

MR. JOE NICE
POTOMAC ELECTRIC POWER COMPANY
- RELOCATIONS
202-388-2581

THE CONTACT PERSONS FOR THE OFFICE OF TRAFFIC AND SAFETY ARE:

MR. RICHARD DAFF
DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SYNDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
410-787-7631

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7652

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7676

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE MDSHA.

CAT. CODE	QUANTITY	DESCRIPTION
973023	18 SF	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: R3-2 (30"X30") MAST ARM MOUNT-1 EACH R3-5L (30"X36") MAST ARM MOUNT-1 EACH R10-3(1)(9"X15") POLE MOUNT SIGN-4 EACH

CAT. CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	1 CY	TEST PIT EXCAVATION
585621	470 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585625	100 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
800000	4 EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT
800000	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON STATION AND SIGN (5"X7" WITH BRAILLE DENOTING CROSSING STREET)
800000	1 LS	REMOVE AND DISPOSE EXISTING EQUIPMENT
801004	4 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	95 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	140 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
813015	18 SF	INSTALL OVERHEAD SIGN
818004	4 EA	10 FOOT BREAKAWAY PEDESTAL POLE
860284	32 EA	12 INCH VEHICULAR LED TRAFFIC SIGNAL HEAD SECTION
860292	4 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	820 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	910 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C. EQUIPMENT TO BE REMOVED AND SALVAGED.

NONE

GENERAL NOTES:

1) ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE FIELD LOCATED. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY.

2) THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.

3) ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

4) PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60"X60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.

5) THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.

6) PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.

7) LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG 4E.2 AND NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

8) THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.

9) ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.

10) VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.

11) PAVEMENT MARKINGS DETAILED ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MSHA STANDARDS. ALL OTHER PAVEMENT MARKINGS AND SIGNS NOT DETAILED ARE FOUND ON SIGNING AND MARKING PLANS.

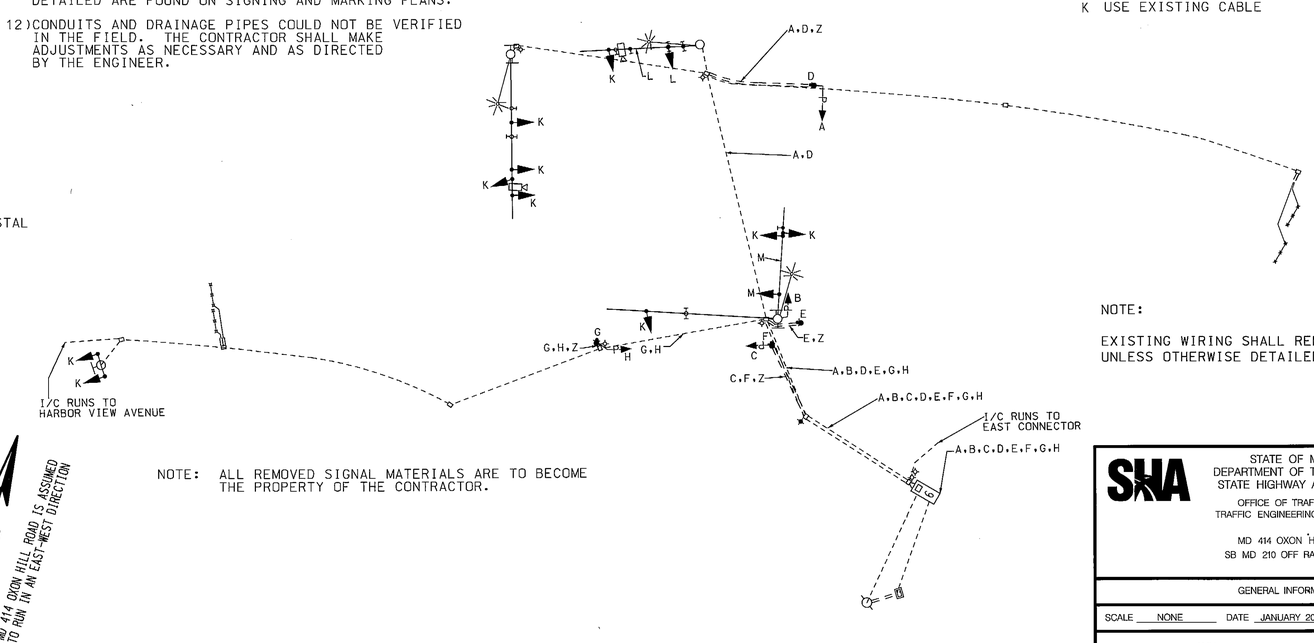
12) CONDUITS AND DRAINAGE PIPES COULD NOT BE VERIFIED IN THE FIELD. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS NECESSARY AND AS DIRECTED BY THE ENGINEER.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	7	7	13	14	15	16
PHASE 2 & 5	R	R	R	◄G-	◄G-	G	G	◄R-	◄R-	◄R-	FY	FY	DW	DW	DW	DW
PHASE 2 & 5 CHANGE	R	R	R	◄Y-	◄Y-	G	G	◄R-	◄R-	◄R-	FY	FY	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	◄R-	◄R-	G	G	◄R-	◄R-	◄R-	FY	FY	DW	DW	WK	WK
PED. CLEARENCE	G	G	G	◄R-	◄R-	G	G	◄R-	◄R-	◄R-	FY	FY	DW	DW	FLDW	FLDW
PHASE 2 & 6 CHANGE	Y	Y	Y	◄R-	◄R-	Y	Y	◄R-	◄R-	◄R-	FY	FY	DW	DW	DW	DW
PHASE 4	R	R	R	◄R-	◄R-	R	R	◄G-	◄G-	◄G-	FY	FY	DW	DW	DW	DW
PHASE 4 CHANGE	R	R	R	◄R-	◄R-	R	R	◄Y-	◄Y-	◄Y-	FY	FY	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	◄R-	◄R-	R	R	◄G-	◄G-	◄G-	FY	FY	WK	WK	DW	DW
PED. CLEARENCE	R	R	R	◄R-	◄R-	R	R	◄G-	◄G-	◄G-	FY	FY	FDW	FDW	DW	DW
PHASE 4 ALT. CHANGE	R	R	R	◄R-	◄R-	R	R	◄Y-	◄Y-	◄Y-	FY	FY	DW	DW	DW	DW
FLASHING OPERATION	FY	FY	FY	◄R-	◄R-	FY	FY	◄R-	◄R-	◄R-	FY	FY	DW	DW	DW	DW

WIRING DIAGRAM

NOT TO SCALE



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

WIRING LEGEND

A,B,C,H,L,M ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
D,E,F,G ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
Z STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
K USE EXISTING CABLE

NOTE:

EXISTING WIRING SHALL REMAIN IN PLACE UNLESS OTHERWISE DETAILED TO BE REMOVED.

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

SPBE- 4 OF SPBE- 4

SHA

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

MD 414 OXON HILL ROAD AT
SB MD 210 OFF RAMP (WEST LOOP)

GENERAL INFORMATION SHEET

SCALE NONE DATE JANUARY 2010 CONTRACT NO. PG5075173

DESIGNED BY AMH COUNTY PRINCE GEORGE'S
DRAWN BY AF LOGMILE 16041400.00
CHECKED BY JFL TIMS NO. J219
FAP NO. SEE TITLE SHEET TOD NO.

TS NO. 4371A | DRAWING - 4 OF 4 | SHEET NO. OF

PLOTTED: $DATETIME$
FILE: m:\5585\858145\New Bald Eagle Road\Option 2\200\200\03_NewBaldEagle.dgn

DRILL HOLES
DRILL HOLES
DRILL HOLES

BORDER REV: DATE: July 1, 2008

BY: Aaron Hottenstein Division: P068 Highway TrafficGMA Emp