PROPOSED SIGNS

D3-2 (VARIABLE X16") — Bald Eagle RD — 19
Bald Eagle RD — 20
D3-2 (VARIABLE X16") DUAL FACE — Oxon Hill RD — 26,29
R3-5L (30"X36") — ONLY — 24
R3-6L (30"X36") — 25
R3-5R (30"X36") — ONLY — 21
W3-3 (36"X36") — 30

ASSOCIATED SHIELD ASSEMBLIES (48"X75")
WEST MARYLAND 414 — 23
EAST MARYLAND 414 — 28

ASSOCIATED SHIELD ASSEMBLIES (30"X51")
EAST MARYLAND 414 — 22
WEST MARYLAND 414 — 27

PROPOSED SIGNALS

12" R Y G AG — 9,10, 12,13
12" AR AY AG — 1,2, 5,6,
12" R Y G — 3,4,7, 8,11,14
12" — 15,16
12" Y — 17,18

ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN TYPE

VIDEO TRAFFIC DETECTION CAMERA — A,B,C,D

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6

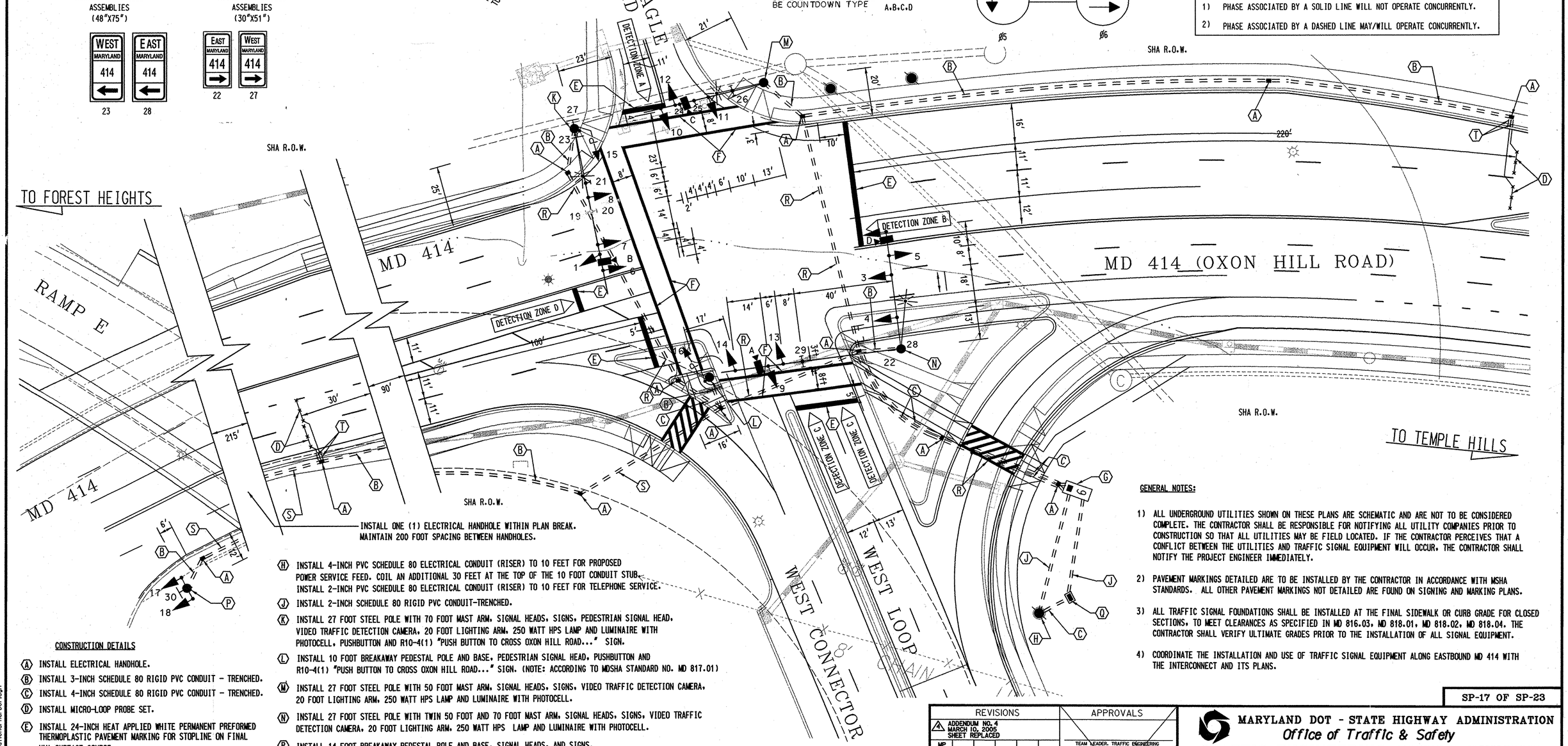
ALT. Ø3

FLASHING OPERATION

PHASING NOTES:

1) PHASE ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

2) PHASE ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.



INSTALL ONE (1) ELECTRICAL HANDHOLE WITHIN PLAN BREAK. MAINTAIN 200 FOOT SPACING BETWEEN HANDHOLES.

(H) INSTALL 4-INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (RISER) TO 10 FEET FOR PROPOSED POWER SERVICE FEED. COIL AN ADDITIONAL 30 FEET AT THE TOP OF THE 10 FOOT CONDUIT STUB. INSTALL 2-INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (RISER) TO 10 FEET FOR TELEPHONE SERVICE.

(J) INSTALL 2-INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED.

(K) INSTALL 27 FOOT STEEL POLE WITH 70 FOOT MAST ARM, SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEAD, VIDEO TRAFFIC DETECTION CAMERA, 20 FOOT LIGHTING ARM, 250 WATT HPS LAMP AND LUMINAIRE WITH PHOTOCELL, PUSHBUTTON AND R10-4(1) "PUSH BUTTON TO CROSS OXON HILL ROAD..." SIGN.

(L) INSTALL 10 FOOT BREAKAWAY PEDESTAL POLE AND BASE, PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND R10-4(1) "PUSH BUTTON TO CROSS OXON HILL ROAD..." SIGN. (NOTE: ACCORDING TO MDSHA STANDARD NO. MD 817.01)

(M) INSTALL 27 FOOT STEEL POLE WITH 50 FOOT MAST ARM, SIGNAL HEADS, SIGNS, VIDEO TRAFFIC DETECTION CAMERA, 20 FOOT LIGHTING ARM, 250 WATT HPS LAMP AND LUMINAIRE WITH PHOTOCELL.

(N) INSTALL 27 FOOT STEEL POLE WITH TWIN 50 FOOT AND 70 FOOT MAST ARM, SIGNAL HEADS, SIGNS, VIDEO TRAFFIC DETECTION CAMERA, 20 FOOT LIGHTING ARM, 250 WATT HPS LAMP AND LUMINAIRE WITH PHOTOCELL.

(P) INSTALL 14 FOOT BREAKAWAY PEDESTAL POLE AND BASE, SIGNAL HEADS, AND SIGNS.

(Q) INSTALL METERED SERVICE PEDESTAL 200 AMPS.

(R) INSTALL 4-INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED.

(S) INSTALL 3-INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED.

(T) INSTALL 1-INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.

CONSTRUCTION DETAILS

(A) INSTALL ELECTRICAL HANDHOLE.

(B) INSTALL 3-INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

(C) INSTALL 4-INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

(D) INSTALL MICRO-LOOP PROBE SET.

(E) INSTALL 24-INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOPLINE ON FINAL HMA SURFACE COURSE.

(F) INSTALL 12-INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALK ON FINAL HMA SURFACE COURSE.

(G) INSTALL EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET-BASE MOUNT. (NOTE: TWO (2) 4-INCH; ONE (1) 3-INCH; AND ONE (1) 2-INCH SCHEDULE 80, 90 DEGREE CONDUIT BENDS)

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

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) COORDINATE THE INSTALLATION AND USE OF TRAFFIC SIGNAL EQUIPMENT ALONG EASTBOUND MD 414 WITH THE INTERCONNECT AND ITS PLANS.

UTILITY LEGEND

—G—G—	GAS MAIN
—W—W—	WATER MAIN
—S—S—	SEWER MAIN
—E—E—	ELECTRIC CABLES
—A—A—	AERIAL CABLES
—T—T—	TELEPHONE CABLES
—L(3)—L(3)—	LEVEL 3 FO CABLES
—FO—FO—	FIBER OPTIC CABLES

KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

REVISIONS

4	ADDENDUM NO. 4 MARCH 10, 2005 SHEET REPLACED
MP	
	GREEN LINE NO. 1 JUNE 29, 2007
KCI	

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY
ORIGINAL ON FILE

SP-17 OF SP-23

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

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

DRAWN BY:	M. PIERRE	F.A.P. NO.	SEE TITLE SHEET	TS NO. 4371	SHEET NO.
CHECKED BY:	J. LAWRENCE	S.H.A. NO.	P65075173		
SCALE:	1"=20'	COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO. E149	297 OF 402
DATE:	12-7-04	LOG MILE:	16041400.00		

PLOTTED: 10:03 PM on Wednesday, June 27, 2007
BY: Aaron Hartensteh Maryland Transportation
FILE: m:\998\09845\210CGP03 National Harbor.dgn