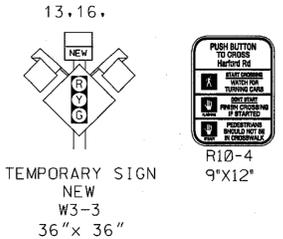
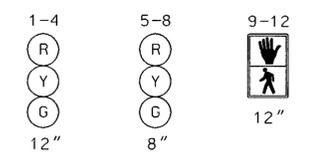


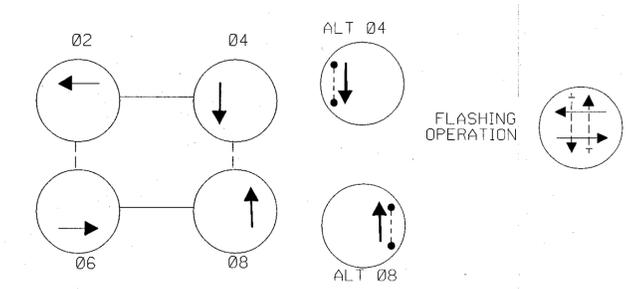
PROPOSED SIGNS



PROPOSED SIGNALS (BLACKFACED)



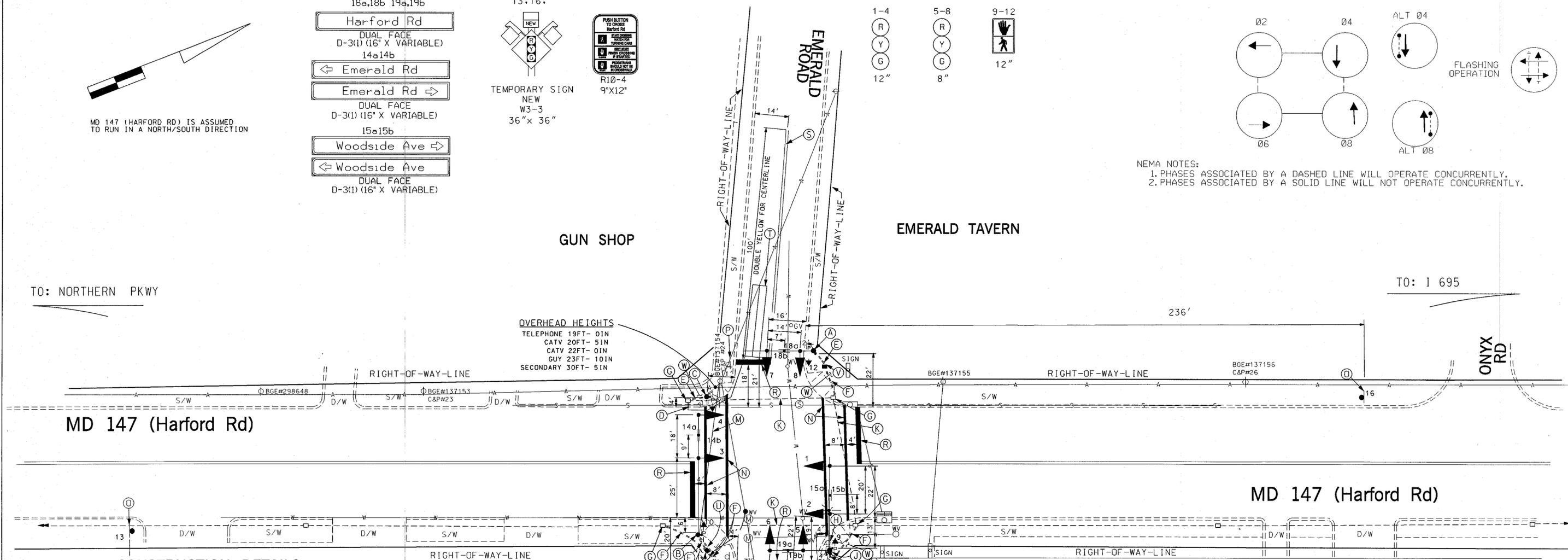
NEMA PHASING



NEMA NOTES:
 1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
 2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

TO: NORTHERN PKWY

TO: 1 695



CONSTRUCTION DETAILS

- A. INSTALL 21' STEEL POLE WITH A SINGLE 28' (CUT A 38' MAST ARM TO 28'), SIGNAL HEADS, SIGNS AND PEDESTRIAN PUSH BUTTON AS SHOWN. (NOTE: 1-3" PVC SCHEDULE 80 CONDUIT BEND)
- B. INSTALL 21' STEEL POLE WITH A SINGLE 50' MAST ARM, SIGNAL HEADS, SIGNS, PEDESTRIAN PUSHBUTTON AND 1" GALV. RISER w/1" WEATHERHEAD. (NOTE: 1-3", 1-2" PVC SCHEDULE 80 CONDUIT BENDS)
- C. INSTALL 10' PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND SIGN. (NOTE: 1-3" PVC SCHEDULE 80 CONDUIT BEND)
- D. INSTALL 1" LIQUID-TIGHT, FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT FOR A DETECTOR WIRE SLEEVE.
- E. INSTALL 3" PVC SCHEDULE 80 CONDUIT - TRENCHED IN 4'x4' CONCRETE SECTIONAL SIDEWALK.
- F. INSTALL 4" PVC SCHEDULE 80 CONDUIT - TRENCHED IN 4'x4' CONCRETE SECTIONAL SIDEWALK.
- G. USE EXISTING HANDHOLE.
- H. REMOVE STOP SIGN FROM POLE.
- J. INSTALL 27' STEEL POLE WITH TWIN 25' & 38' MAST ARMS. (NOTE: CUT TWIN 50' MAST ARMS TO A 25' AND 38' MAST ARMS) SIGNAL HEADS, SIGNS, PEDESTRIAN PUSHBUTTON, 15' LIGHTING ARM, 250 WATT HPS LAMP AND LUMINAIRE AS SHOWN. (NOTE: 1-3" PVC SCHEDULE 80 CONDUIT BEND)
- K. USE EXISTING CONDUIT.
- L. EXISTING MAILBOX TO BE RELOCATED BY OTHERS. (NOTE: SEE GENERAL INFORMATION SHEET FOR RELOCATING THE MAILBOX).
- M. OVERHEAD SERVICE FEED BY BGE.
- N. INSTALL 12" WHITE THERMOPLASTIC PAVEMENT MARKING TAPE FOR CROSSWALK.
- O. INSTALL GROUND MOUNTED SIGN.
- P. REMOVE EXISTING (ONE WAY) SIGN LOCATED ON TOP OF EXISTING SIGN POLE.
- Q. INSTALL A BASE MOUNTED CABINET WITH ALL THE NECESSARY EQUIPMENT FOR AN OVERHEAD FEED AND A PHONE DROP.
- R. INSTALL 24" WHITE THERMOPLASTIC PAVEMENT MARKING TAPE FOR STOPLINE.
- S. INSTALL 5" DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING TAPE FOR CENTERLINE.
- T. INSTALL 6' x 30' LOOP DETECTOR WIRE ENCASED IN FLEXIBLE TUBING QUADRUPOLE TYPE 3-6-3 TURNS.
- U. INSTALL 2" PVC SCHEDULE 80 CONDUIT - TRENCHED IN 4'x4' CONCRETE SECTIONAL SIDEWALK (FOR BGE PROPOSED SERVICE).
- V. INSTALL HANDHOLE.
- W. REMOVE EXISTING SIDEWALK SECTIONS AND REPLACE IN KIND AFTER THE INSTALLATION OF THE PROPOSED TRAFFIC SIGNAL EQUIPMENT.

GENERAL NOTES:

- 1. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND TO BE INSTALLED BY THE SIGNAL CONTRACTOR.
- 2. LOOP DETECTORS AND CONDUITS ARE TO BE INSTALLED PRIOR TO INSTALLATION OF THE FINAL PAVEMENT MARKINGS.
- 3. DETECTION SHALL BE ONE (1) FOOT BEHIND THE STOP LINE.
- 4. ALL PROPOSED TRAFFIC SIGNAL EQUIPMENT SHALL BE INSTALLED TO FINAL GRADE.
- 5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT 410-787-7635 AT 72 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE CONFLICT MAY BE RESOLVED.
- 6. ANY EXISTING 4' X4' CONCRETE SIDEWALK SECTION SHALL BE REPLACE IN KIND AFTER THE INSTALLATION OF NEW TRAFFIC SIGNAL EQUIPMENT.
- 7. THE ENGINEER AND THE CONTRACTOR SHALL MAINTAIN A 4 FOOT CLEARANCE FROM THE CURB LOCATED INFRONT OF THE GUNSHOP AND NOT TO DAMAGE EXISTING CONDUIT ALSO LOCATED IN VICINITY OF THE PEDESTAL POLE IN THE SOUTHWEST CORNER OF THIS INTERSECTION IF ANY PROBLEM ADJUST ACCORDINGLY.
- 8. THE CONTRACTOR WILL BE RESPONSIBLE TO NOTIFY MR: KEVIN JOHNSTON AT 410 347-4615 AND/OR WILLIAM KELLY AT 410 347-4484 AT THE POSTAL SERVICE 2 WEEKS PRIOR TO NEEDING THE EXISTING MAILBOX TO BE MOVED. THE POSTAL OFFICE PERSONAL WILL REMOVE OR RELOCATED THE EXISTING MAILBOX.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

A	A	AERIAL CABLE
E	E	ELECTRIC
T	T	TELEPHONE
G	G	GAS
S	S	SEWER
W	W	WATER
TV	TV	CABLE TV
X	X	FENCE

BAI BRUDIS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 9220 RUMSEY ROAD; SUITE 110
 COLUMBIA, MARYLAND 21045
 (410)-884-3607

REVISIONS	APPROVALS
1. CHANGED BGE#137155 TO BGE#137156	<i>R. Milstead</i> 11-3-03 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>A. Kelly</i> 11-3-03 ASSIST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>B. Kelly</i> 6-30-03 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>Dennis J. Collins</i> 11/03/03 DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
 TRAFFIC SIGNAL PLAN
MD 147(Harford Rd) AND
EMERALD ROAD/WOODSIDE AVE

DRAWN BY: M.A. MEARS	F.A.P. NO. AT3575185	TS NO. 4239	SHEET NO. 1 OF 2
CHECKED BY: R. MILSTEAD	S.H.A. NO. BALTIMORE	T.I.M.S. NO. F490	
SCALE: 1"=20'	COUNTY: BALTIMORE		
DATE: 6/26/03	LOG MILE: 03014700.59		