DRILL HOLES

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BORDER REV. DATE: June 1, 2004

N
IN MD 639 ASSUMED TO RUN NORTH-SOUTH DIRECTION

PROPOSED LED SIGNALS

1,2,3	4,5,6,7,8,9	10
R, Y, G	R, Y, G	R, Y, G, Y, G
12"	12"	12"

PROPOSED VIDEO DETECTION

a-b

PROPOSED OPTICOM

c

EXISTING SIGNS TO REMOVE

20 — STOP — SEE NOTE 14

16 — Allegany Coll of MD NEXT LEFT — SEE NOTE 14

EXISTING SIGNS TO REMAIN

17 — 20 MPH

18 — Allegany County Health Dept. H

PROPOSED SIGNS

15,19 — NEW — D95-25 24"x24" W3-3 36"x36"

14 — Willowbrook RD — D-3(1) VARx16"

13 — Wyckoff ST — D-3(1) VARx16"

11,12 — ONLY — R3-5L 30"x36"

21 — R4-7 24"x30" SEE NOTE 14

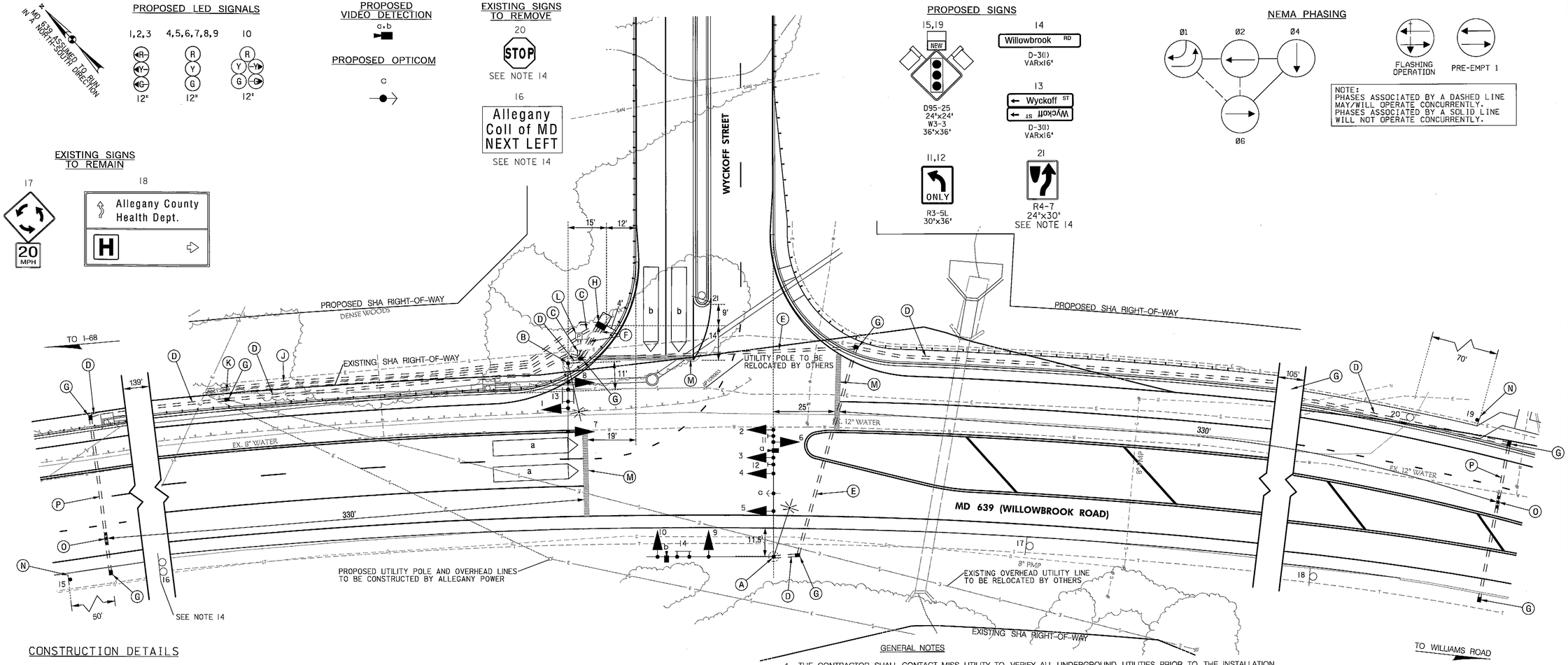
NEMA PHASING

Ø1 Ø2 Ø4 Ø6

FLASHING OPERATION

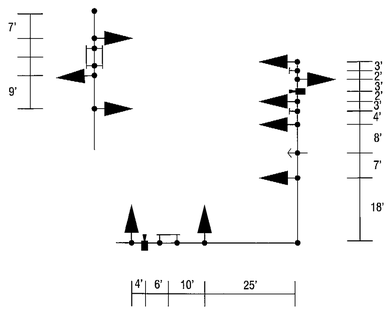
PRE-EMPT 1

NOTE:
PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./50 FT. MAST ARMS, FOUNDATION, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, OPTICOM, SIGNS, AND 20 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE. (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
B. INSTALL 27 FT. STEEL POLE WITH 38 FT. MAST ARM, FOUNDATION, TRAFFIC SIGNAL HEADS, AND 20 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE. (NOTE: 1-3 IN. PVC 90 DEGREE BEND) (SEE NOTE 16)
C. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
D. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
E. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED)
F. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
G. INSTALL ELECTRICAL HANDHOLE (SEE NOTE 17)
H. INSTALL EIGHT PHASE FULLY-ACTUATED CONTROLLER HOUSED IN A NEMA SIZE 6 BASE MOUNTED CABINET WITH ALL OF THE NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. PVC 90 DEGREE BENDS) (SEE NOTE 18)
J. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED TELEPHONE SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
K. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR UNDERGROUND POWER SERVICE. THE CONTRACTOR SHALL CAP, MARK, AND LEAVE A ONE FOOT STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
L. INSTALL METERED SERVICE PEDESTAL (NOTE 2-2 IN. PVC 90 DEGREE BENDS, 1-3 IN. PVC 90 DEGREE BEND, 1-4 IN. PVC 90 DEGREE BEND, AND 1-3/4 IN. PVC 90 DEGREE BEND)
M. INSTALL 24 IN. HEAT APPLIED WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE
N. INSTALL PROPOSED GROUND MOUNTED SIGN ON ONE 4 IN. X 6 IN. WOOD POST
O. INSTALL NON-INVASIVE MICROLOOP PROBE.
P. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED)



GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MDSHA STANDARD PLATES FOR TRAFFIC CONTROL.
3. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING AND VIDEO DETECTION CAMERA PROGRAMMING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
4. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
5. SEE DETAIL THIS SHEET FOR SIGNAL HEAD, VIDEO DETECTION CAMERA, AND SIGN LAYOUT.
6. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
7. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MDSHA STANDARDS.
8. THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
9. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
10. DISTRICT 6 MAINTENANCE FORCES WILL REMOVE THE D95-25 PANEL AND FLAGS THREE MONTHS AFTER SIGNAL TURN ON.
11. ALL GEOMETRIC MODIFICATIONS WILL BE CONSTRUCTED BY OTHERS.
12. ALL LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
13. THE CONTRACTOR SHALL COORDINATE WITH THE TRAFFIC BARRIER INSTALLER ON THE CONDUIT CROSSINGS IN THE NORTHEAST AND SOUTHEAST QUADRANTS TO AVOID CONFLICTS WITH THE TRAFFIC BARRIER AND CONDUIT.
14. REFER TO THE SIGNING AND MARKING PLANS FOR INSTALLATION/REMOVAL INFORMATION.
15. LUMINAIRES SHALL BE INSTALLED PERPENDICULAR TO MD 639 AND ARE SHOWN OFFSET FOR CLARITY.
16. THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT THE FOUNDATION IS A MINIMUM OF 10 FT. IN THE GROUND ON THE 2:1 SLOPE.
17. THE CONTRACTOR SHALL INSTALL ALL CONDUIT AND ELECTRICAL HANDHOLES PRIOR TO SIDEWALK CONSTRUCTION.
18. THE CONTRACTOR SHALL INSTALL A PRESSURE TREATED RAILING ALONG SLOPE SIDE OF CABINET AND CONCRETE PAD.

UTILITY LEGEND

SD — SD	STORM DRAIN
G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
A — A	AERIAL CABLES
T — T	TELEPHONE CABLES
F — F	FIBER-OPTIC

GEOMETRIC LEGEND

- EXISTING
- PROPOSED

NOTE:
THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITH A RE-REVIEW REQUIRED FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

EAPD PERMIT NO. _____

LENHART TRAFFIC CONSULTING
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APPROVALS

TEAM LEADER	10-14-10
ASST. DIV. CHIEF	10-14-10
DIVISION CHIEF	10/14/10
OFFICE DIRECTOR	T. H.

REVISIONS

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

MD 639 (WILLOWBROOK ROAD) AT
WYCKOFF STREET
CUMBERLAND, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE OCTOBER 2010 CONTRACT NO. BW996M82

DESIGNED BY MML COUNTY ALLEGANY
DRAWN BY MML LOGMILE 01063900.92
CHECKED BY MML T.I.M.S. NO. K606
F.A.P. NO. N/A TOD NO.

DRAWING NO. TS-4775 OF SHEET NO. OF

PLOTTED: TUESDAY, OCTOBER 12, 2010 AT 12:07 AM