MD 424 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED SIGNS

14 — SHIELD ASSEMBLY MAX.GM(48"x 87") (EAST 50)

15 — R3-5(R) (30"x36") (ONLY)

13 — M95-25 (24"x24") (NEW); W3-3 (48"x48")

18 — SHIELD ASSEMBLY (48"x75") (NORTH MARYLAND 424)

19,22 — D-3(2) (VAR.X16") DUAL FACE (Davidsonville RD)

21 — SHIELD ASSEMBLY (48"x75") (SOUTH MARYLAND 424)

20 — SHIELD ASSEMBLY (30"x51") (NORTH MARYLAND 424)

23 — R3-1 (30"x30")

EXISTING SIGNS

16 — (NORTH MARYLAND 424)

17 — (SOUTH MARYLAND 424)

PROPOSED LED SIGNALS

1,4 — 12"/8"

2,5 — 12"

3,6 7-12 — 12" 12"

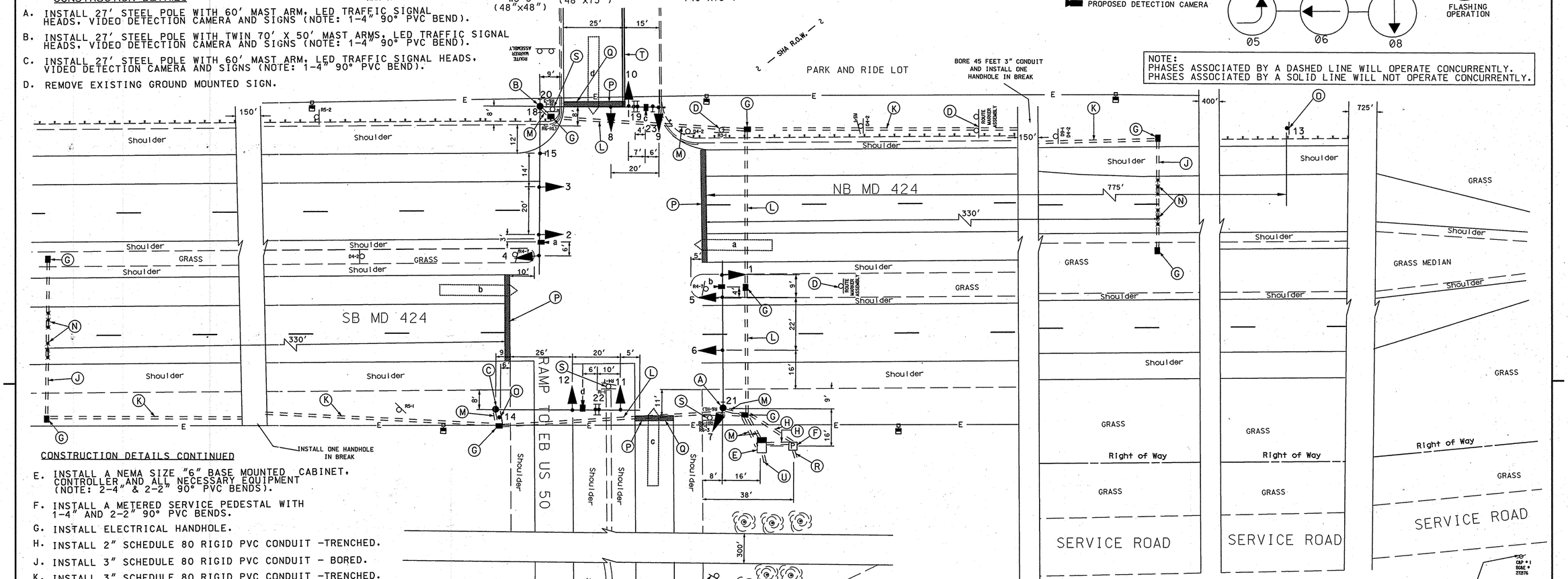
a,b,c,d PROPOSED DETECTION CAMERA

NEMA PHASING

01 02 04 05 06 08

FLASHING OPERATION

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



CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH 60' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA AND SIGNS (NOTE: 1-4" 90° PVC BEND).

B. INSTALL 27' STEEL POLE WITH TWIN 70' X 50' MAST ARMS, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA AND SIGNS (NOTE: 1-4" 90° PVC BEND).

C. INSTALL 27' STEEL POLE WITH 60' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA AND SIGNS (NOTE: 1-4" 90° PVC BEND).

D. REMOVE EXISTING GROUND MOUNTED SIGN.

CONSTRUCTION DETAILS CONTINUED

E. INSTALL A NEMA SIZE "6" BASE MOUNTED CABINET, CONTROLLER AND ALL NECESSARY EQUIPMENT (NOTE: 2-4" & 2-2" 90° PVC BENDS).

F. INSTALL A METERED SERVICE PEDESTAL WITH 1-4" AND 2-2" 90° PVC BENDS.

G. INSTALL ELECTRICAL HANDHOLE.

H. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT -TRENCHED.

J. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - BORED.

K. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT -TRENCHED.

L. INSTALL 4" SCHEDULLE 80 RIGID PVC CONDUIT -BORED.

M. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT -TRENCHED.

N. INSTALL NON-INVASIVE DETECTOR WITH 1000' LEAD-IN CABLE.

O. INSTALL GROUND MOUNTED SIGN ON 4" X 6" WOOD POST.

P. INSTALL 24" WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.

Q. REMOVE EXISTING PAVEMENT MARKING.

R. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT -TRENCHED. PROVIDE A 1' STUB AND A PULL STRING FOR THE SERVICE FEED INSTALLATION BY OTHERS, 5' FROM SERVICE PEDESTAL.(MARK AND LABEL THE LOCATION).

S. REMOVE EXISTING STOP SIGN FROM EXISTING SIGN SUPPORT AFTER SIGNAL TURN-ON.ADJUST THE HEIGHT OF THE REMAINING SIGNS

T. INSTALL 5" DOUBLE YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING.

U. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT -TRENCHED. PROVIDE A 1' STUB AND A PULL STRING FOR THE INSTALLATION OF THE PHONE DROP BY OTHERS, 5' FROM CONTROLLER CABINET, (MARK AND LABEL THE LOCATION).

GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. ALL 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 MAY OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
4. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN 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.

TOD NO: AT915-19
SHA No.: AA487A53/C53
MD 424 @ US 50 EB and WB ramps

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031
Phone: (410) 823-8070 Fax: (410) 823-2184

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

MD 424(DAVIDSONVILLE ROAD) AT EB US 50 RAMP
DAVIDSONVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

APPROVALS	REVISIONS
TEAM LEADER 1/31/2007	
ASST. DIV. CHIEF 1-31-07	
DIVISION CHIEF 2/1/07	
OFFICE DIRECTOR 2/1/07	

SCALE 1" = 20' DATE 1-22-2007 CONTRACT NO. AT 9155185

DESIGNED BY H.O. COUNTY ANNE ARUNDEL
DRAWN BY H.O. LOGMILE 02042403.16
CHECKED BY T.M.H. T.I.M.S. NO. G932
F.A.P. NO. TOD NO.

TS NO. 4538 DRAWING 1 OF 2 SHEET NO. 1 OF 4

PLOTTED: WEDNESDAY, JANUARY 31, 2007 AT 11:39:53 AM
FILE: MSG-P001_MD424 @ EB US 50 RAMP.DGN

BY: SHOLLIE1

GEOMETRIC LEGEND: EXISTING, PROPOSED

UTILITY LEGEND: STORM DRAIN, GAS MAIN, WATER MAIN, SEWER MAIN, ELECTRIC CABLES, AERIAL CABLES, TELEPHONE CABLES, FIBER-OPTIC