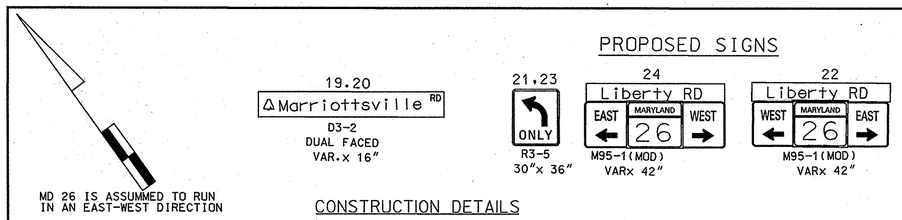
PROPOSED SIGNS



CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH 50' MAST ARM (CUT TO 44'), LED TRAFFIC SIGNAL HEADS, AND SIGNS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PEDESTRIAN PUSHBUTTON WITH SIGNS, 15' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE, (NOTE: 1-3" 90° PVC BEND).

B. INSTALL 27' (CUT TO 21') STEEL POLE WITH 38' MAST ARM, LED TRAFFIC SIGNAL HEADS, AND SIGNS, VIDEO DETECTOR CAMERA, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PEDESTRIAN PUSHBUTTON WITH SIGNS, (NOTE: 1-3" 90° PVC BEND).

C. INSTALL 27' STEEL POLE WITH TWIN 70' x 50' MAST ARMS (CUT 70' TO 63' & 50' TO 38'), LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PEDESTRIAN PUSHBUTTON WITH SIGNS, AND 15' LIGTHING ARM WITH 250 WATT HPS LUMINAIRE, (NOTE: 1-3" 90° PVC BEND).

D. USE EXISTING NEMA CONTROLLER MODIFIED WITH ALL THE NECESSARY EQUIPMENT HOUSED IN A SIZE 6' BASE-MOUNTED CABINET. NOTE: THE EXISTING SERVICE AND INTERCONNECT CABLE SHALL BE MAINTAINED. A NEW PHONE DROP WILL BE INSTALLED.

E. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED.

F. INSTALL HANDHOLE.

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

H. VIDEO CAMERA DETECTION ZONE.

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

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

L. INSTALL NON-INVASIVE PROBE WITH 500' LEAD-IN CABLE TO CONTROLLER.

M. INSTALL NON-INVASIVE PROBE WITH 1000' LEAD-IN CABLE TO CONTROLLER.

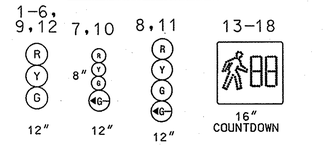
a,b VIDEO DETECTION CAMERA

DETECTOR ZONE

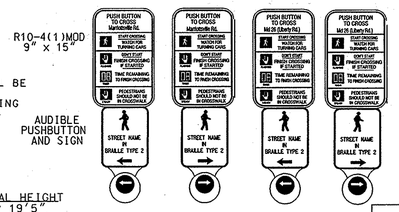
DETECTABLE WARNING SURFACES

SLOPE OF RAMP

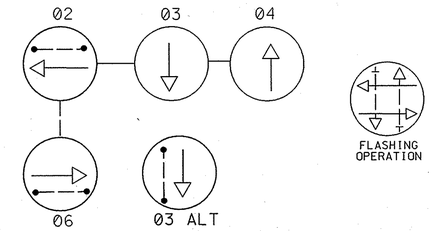
PROPOSED LED SIGNAL HEADS



PUSHBUTTON SIGN NUMBERS INDICATE THE ASSOCIATED PEDESTRIAN SIGNAL HEAD



NEMA PHASING



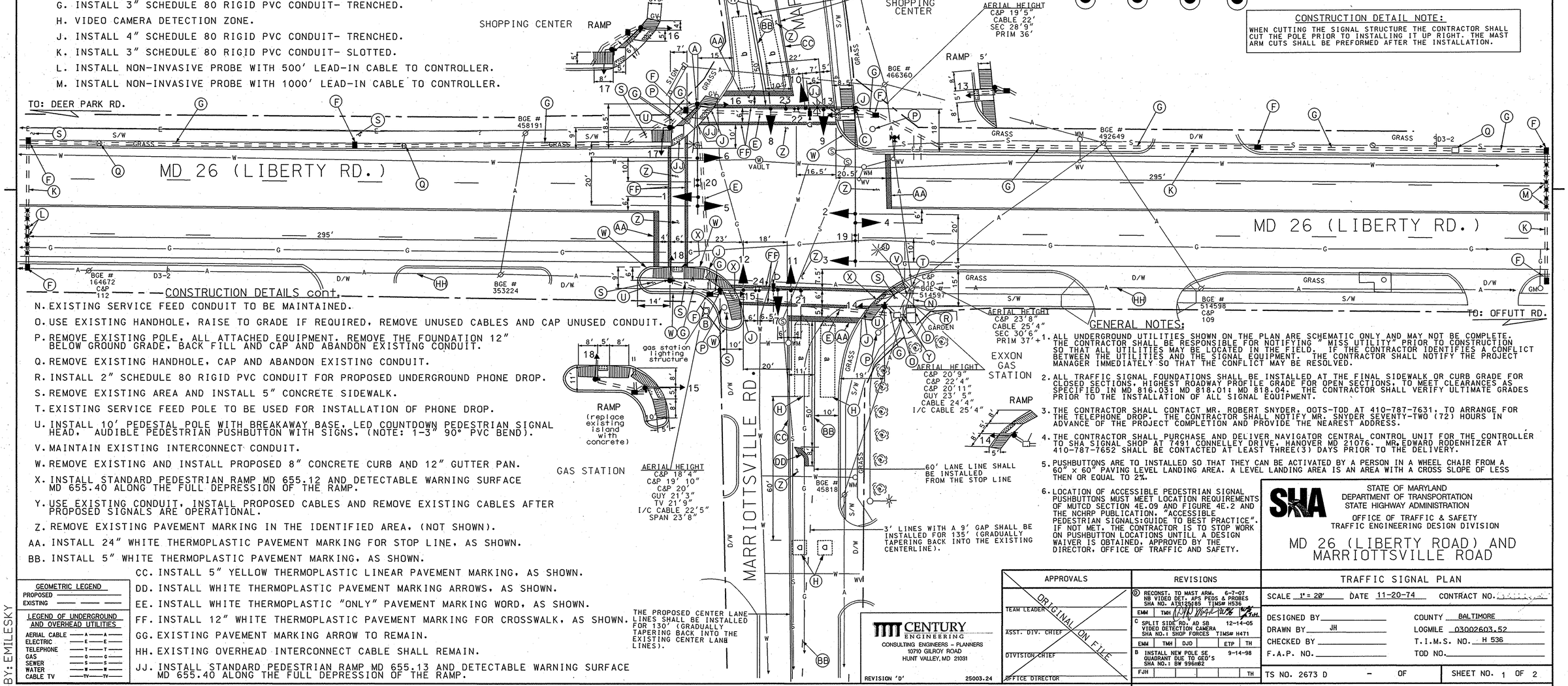
PHASING NOTES:

1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

CONSTRUCTION DETAIL NOTE:

WHEN CUTTING THE SIGNAL STRUCTURE THE CONTRACTOR SHALL CUT THE POLE PRIOR TO INSTALLING IT UP RIGHT. THE MAST ARM CUTS SHALL BE PREFORMED AFTER THE INSTALLATION.



CONSTRUCTION DETAILS cont.

N. EXISTING SERVICE FEED CONDUIT TO BE MAINTAINED.

O. USE EXISTING HANDHOLE, RAISE TO GRADE IF REQUIRED, REMOVE UNUSED CABLES AND CAP UNUSED CONDUIT.

P. REMOVE EXISTING POLE, ALL ATTACHED EQUIPMENT. REMOVE THE FOUNDATION 12" BELOW GROUND GRADE, BACK FILL AND CAP AND ABANDON EXISTING CONDUIT.

Q. REMOVE EXISTING HANDHOLE, CAP AND ABANDON EXISTING CONDUIT.

R. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT FOR PROPOSED UNDERGROUND PHONE DROP.

S. REMOVE EXISTING AREA AND INSTALL 5" CONCRETE SIDEWALK.

T. EXISTING SERVICE FEED POLE TO BE USED FOR INSTALLATION OF PHONE DROP.

U. INSTALL 10' PEDESTAL POLE WITH BREAKAWAY BASE, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PEDESTRIAN PUSHBUTTON WITH SIGNS, (NOTE: 1-3" 90° PVC BEND).

V. MAINTAIN EXISTING INTERCONNECT CONDUIT.

W. REMOVE EXISTING AND INSTALL PROPOSED 8" CONCRETE CURB AND 12" GUTTER PAN.

X. INSTALL STANDARD PEDESTRIAN RAMP MD 655.12 AND DETECTABLE WARNING SURFACE MD 655.40 ALONG THE FULL DEPRESSION OF THE RAMP.

Y. USE EXISTING CONDUIT, INSTALL PROPOSED CABLES AND REMOVE EXISTING CABLES AFTER PROPOSED SIGNALS ARE OPERATIONAL.

Z. REMOVE EXISTING PAVEMENT MARKING IN THE IDENTIFIED AREA, (NOT SHOWN).

AA. INSTALL 24" WHITE THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE, AS SHOWN.

BB. INSTALL 5" WHITE THERMOPLASTIC PAVEMENT MARKING, AS SHOWN.

CC. INSTALL 5" YELLOW THERMOPLASTIC LINEAR PAVEMENT MARKING, AS SHOWN.

DD. INSTALL WHITE THERMOPLASTIC PAVEMENT MARKING ARROWS, AS SHOWN.

EE. INSTALL WHITE THERMOPLASTIC "ONLY" PAVEMENT MARKING WORD, AS SHOWN.

FF. INSTALL 12" WHITE THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALK, AS SHOWN.

GG. INSTALL EXISTING PAVEMENT MARKING ARROW TO REMAIN.

HH. EXISTING OVERHEAD INTERCONNECT CABLE SHALL REMAIN.

JJ. INSTALL STANDARD PEDESTRIAN RAMP MD 655.13 AND DETECTABLE WARNING SURFACE MD 655.40 ALONG THE FULL DEPRESSION OF THE RAMP.

GENERAL NOTES:

1. ALL UNDERGROUND UTILITIES SHOWN ON THE PLAN 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 IDENTIFIES A CONFLICT BETWEEN THE UTILITIES AND THE SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

2. 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 816.031 MD 818.011 MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

3. THE CONTRACTOR SHALL CONTACT MR. ROBERT SNYDER, OOTS-TOD AT 410-787-7631, TO ARRANGE FOR THE TELEPHONE DROP. THE CONTRACTOR SHALL NOTIFY MR. SNYDER SEVENTY-TWO (72) HOURS IN ADVANCE OF THE PROJECT COMPLETION AND PROVIDE THE NEAREST ADDRESS.

4. THE CONTRACTOR SHALL PURCHASE AND DELIVER NAVIGATOR CENTRAL CONTROL UNIT FOR THE CONTROLLER TO SHA SIGNAL SHOP AT 7491 CONNELLEY DRIVE, HANOVER MD 21076. MR. EDWARD RODENHIZER AT 410-787-7652 SHALL BE CONTACTED AT LEAST THREE(3) DAYS PRIOR TO THE DELIVERY.

5. PUSHBUTTONS ARE TO INSTALLED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEEL CHAIR FROM A 60" x 60" PAVING LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THEN OR EQUAL TO 2%.

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

GEOMETRIC LEGEND

PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

BY: EMILESKY

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVISION 'D' 25003.24

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS				
D	RECONST. TO MAST ARM. HB VIDEO DET. APS PEDS & PROBES SHA NO. AT3125185 TIMS# H536		6-7-07	
EMM	TMH			TMH
C	SPLIT SIDE RD. AD SB VIDEO DETECTION CAMERA SHA NO.: SHOP FORCES TIMS# H471		12-14-05	
EMM	TMH	DJD	ETP	TH
B	INSTALL NEW POLE SE QUADRANT DUE TO GEO'S SHA NO.: BW 936m82		9-14-98	
FJH				TH

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 26 (LIBERTY ROAD) AND MARRIOTTSVILLE ROAD

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 11-20-74 CONTRACT NO.

DESIGNED BY COUNTY BALTIMORE

DRAWN BY JH LOGMILE 03002603.52

CHECKED BY T.I.M.S. NO. H 536

F.A.P. NO. TOD NO.

TS NO. 2673 D - OF SHEET NO. 1 OF 2

PLOTTED: FRIDAY, JUNE 08, 2007 AT 03:48 PM
FILE: O:\TRANSDWG\25003\25003.24 MD26 @MARRIOTTSVILLE\MSG-P001-MD26MARRT.DGN