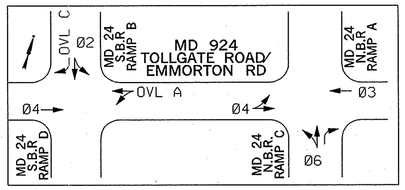
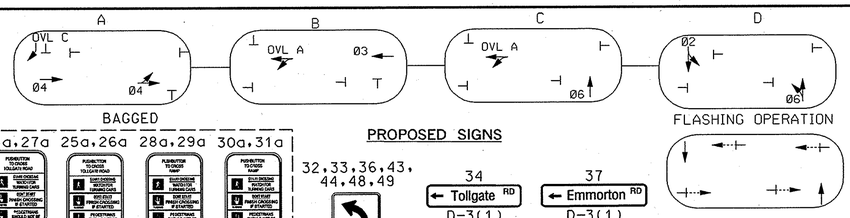
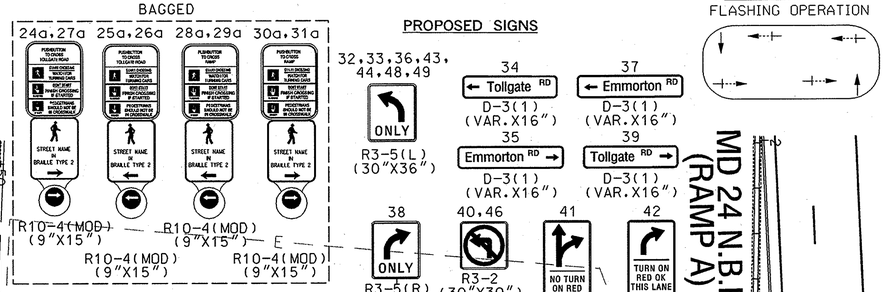
PHASING



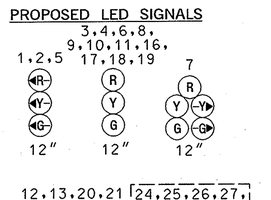


MD 24 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION

PROPOSED SIGNS



PROPOSED LED SIGNALS



PROPOSED VIDEO DETECTION CAMERA

a,b,c,d,e,f

VIDEO DETECTION ZONE

a,b,c,d,e,f

TO BEL AIR

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 27 FT STEEL POLE WITH SINGLE 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, OVERHEAD VIDEO DETECTION CAMERA, 15 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE. (NOTE: ONE 4 IN. AND ONE 2 IN. PVC SCHEDULE 80, 90 DEGREE CONDUIT BENDS) STA. 112+84, 104' RT.& STA. 114+80, 38 FT. RT.

B. INSTALL CONCRETE FOUNDATION WITH A 27 FT STEEL POLE WITH TWIN 70 FT. AND 50 FT. MAST ARM, SIGNAL HEADS, SIGNS, OVERHEAD VIDEO DETECTION CAMERAS, 20 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE. (NOTE: ONE 4 IN. AND ONE 2 IN. PVC SCHEDULE 80, 90 DEGREE CONDUIT BENDS)STA. 112+10, 21' RT. & STA. 115+63, 35' RT.

C. INSTALL A NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON BASE UNIT. (NOTE: THREE-4 IN. PVC AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS) STA. 25+15, 10' LT.

D. INSTALL METERED SERVICE PEDESTAL. (NOTE: ONE-4 IN. AND TWO-2 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS IN PEDESTAL BASE).

E. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-4(MOD) SIGN (TO READ "PUSH BUTTON TO CROSS TOLLGATE ROAD"), AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION WITH INTERNATIONAL BRAILLE ON FACE PLATE (NOTE: ONE-2 IN PVC SCHEDULE 80, 90 DEGREE CONDUIT BEND) STA. 115+81 50' LT., STA.115+73, 28' RT., STA.115+80, 55' RT., STA.115+71, 99'RT., STA. 115+38 129' RT.

F. INSTALL 24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKING FOR STOP LINE.

G. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED.

H. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT- BORED.

J. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED.

K. INSTALL HANDHOLE.

L. INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE AND SIGNAL HEAD.(NOTE: ONE-2 IN. PVC SCHEDULE 80, 90 DEGREE CONDUIT BEND) STA.114+53, 100'RT. & STA.113+02, 38'LT.

M. INSTALL THREE (3) 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED.

N. INSTALL A 48 IN. X 42 IN. ALTERNATE TRAFFIC SIGNAL HANDHOLE (PER SHA STANDARD MD 811.03) MODIFIED TO SUBSTITUTE CONCRETE IN PLACE OF BRICK FOR THE HANDHOLE..

P. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE TACTILE PEDESTRIAN STATION (TO READ "PUSH BUTTON TO CROSS RAMP"), INTERNATIONAL BRAILLE ON FACE PLATE (NOTE: ONE-2 IN. PVC SCHEDULE 80, 90 DEGREE CONDUIT BEND) STA. 114+72, 122' RT., STA. 112+80, 127' RT., STA.112+24, 131' RT., 115+40, 130' RT.

APPROXIMATE LOCATION OF PROPOSED BGE TRANSFORMER

MD 24 S.B.R (RAMP B)

MD 24 N.B.R (RAMP A)

MD 924 (EMMORTON RD)

TOLLGATE RD

MD 924 (TOLLGATE RD/EMMORTON RD)

MD 24 S.B.R (RAMP D)

MD 24 N.B.R (RAMP C)

TO EDGEWOOD

TO ABINGDON

GENERAL NOTES

1. VIDEO CAMERA PLACEMENT AND ALIGNMENT SHALL BE COORDINATED WITH THE SHA/OOTS ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
5. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
6. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.
7. 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 818.02, MD 818.04 THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
8. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO BEGINNING SIGNAL WORK TO ARRANGE FOR SHA SIGNAL INSPECTION.
9. INSTALL 15 FEET OF ADDITIONAL SLACK OF ELECTRICAL CABLE FOR SIGNAL HEAD NUMBER 7.

MOT LEGEND

WORK ZONE
TEMPORARY SIGN AND POST
CRASH CUSHION SAND FILLED PLASTIC BARRELS
TYPE III BARRICADE
DRUMS
PRECAST TEMPORARY CONCRETE TRAFFIC BARRIER

UTILITY LEGEND

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

BY: SDU

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-6584
WWW.SABRA-WANG.COM

APPROVALS

ORIGINAL ON FILE

TEAM LEADER, TRAFFIC ENGINEERING DIVISION
ASST. CHIEF TRAFFIC ENGINEERING DIVISION
CHIEF TRAFFIC ENGINEERING DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

REVISIONS

G	STAGE 5 MOT SIGNAL DUE TO GEOMETRIC IMPROVEMENTS MDTA # KO-874-0000002				
	SWA				06/12/06
F	INSTALL VIDEO DETECTION SHA NO. AT3085185 SHA#: HA 272A52B52				
	SWA				04/10/04
E	REPLACE EASTBOUND TOLLGATE ROAD LOOP DETECTORS BW3980492				
	MLH	TZ			05/01/02

MOT STAGE:5

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

MD 24 AT MD 924 (EMMORTON ROAD)
IMPROVEMENTS TO I95 AND MD 24 INTERCHANGE
ABINGDON, MARYLAND

TEMPORARY TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE SEPT 11, 1992 CONTRACT NO. BW-511-802-412

DESIGNED BY _____ COUNTY HARFORD
DRAWN BY S.R LOGMILE _____
CHECKED BY L.E.S TIMS NO. F 083
FAP NO. NONE TOD NO. AT 308-12

TS NO. 1948 E | DRAWING PSG OF P019 | SHEET NO. 702 OF 889

PLOTTED: Friday, July 07, 2006 AT 10:03 AM
FILE: R:\2003\31 MdTA 2003-01 prel_eng KO\[Task 01 MD24_I-95\Dwg\Signals\pSG-P019_MD24.dgn