NOTE: MD 45 US ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

EXISTING SIGNS AND SIGNS TO BE REMOVED

1

12"

LEFT TURN YIELD ON GREEN — R10-12 (42" x 36")

TACTILE PUSH-BUTTON SIGN (9"x12") TO: TOWSON ROUNDABOUT/ I-695

TACTILE PUSH-BUTTON SIGN (9"x12")

EXISTING SIGNS

42 — York RD — D3-2 DUAL FACED (VAR. x 16")

28,37 — Pennsylvania AVE — D3-2 DUAL FACED (VAR. x 16")

36 — R3-2 30"x30"

29 — R3-1 30"x30"

41 — ONLY — R3-5(L) 30"x36"

38,43 — NO TURN ON RED — R16-11A 30"x30"

34,35,40 — ONE WAY — R6-1(R) 36"x12"

30,31,33 — ONE WAY — R6-1(L) 36"x12"

39 — PARKING — D4-1 24"x30"

27 — PARKING — D4-1 24"x30"

32 — YIELD TO PEDESTRIANS — SPECIAL SIGN

PROPOSED SIGNALS

R10-4(1) 9" x 12" — PUSH BUTTON TO CROSS YORK ROAD — 20,22 YORK RD

R10-4(1) 9" x 12" — PUSH BUTTON TO CROSS PENNSYLVANIA AVE. — 23,26 24,25 PENNSYLVANIA AVE

1 — 12" 8"

2 — 12"

3,6-10 — 12"

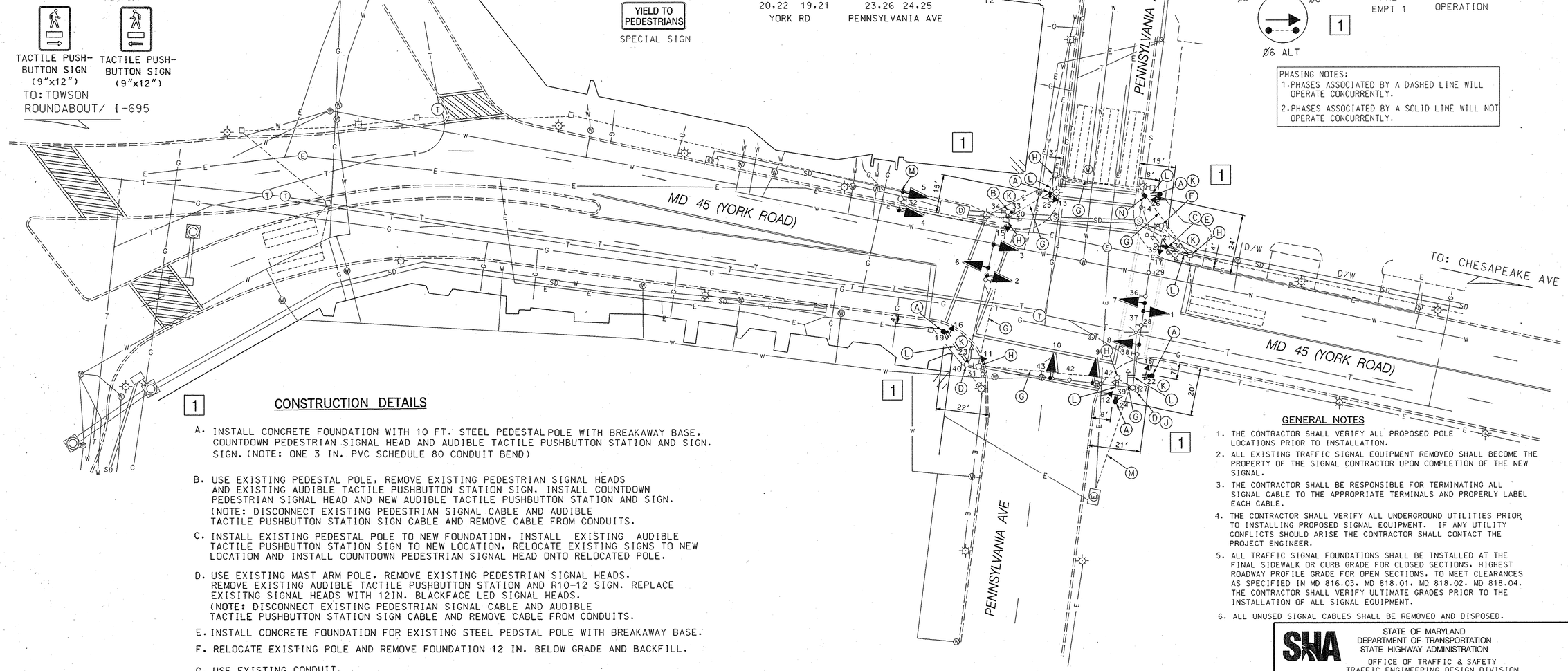
11-18 — 16" PEDESTRIAN COUNTDOWN SIGNAL HEAD "LED" TYPE

4,5 — 12"

NEMA PHASING

Ø2 ALT, Ø2, Ø3, Ø4, Ø4 ALT, Ø5, Ø6, Ø6 ALT, PRE EMPT 1, FLASHING OPERATION

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



CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, COUNTDOWN PEDESTRIAN SIGNAL HEAD AND AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN. SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND)

B. USE EXISTING PEDESTAL POLE, REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND EXISTING AUDIBLE TACTILE PUSHBUTTON STATION SIGN. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD AND NEW AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN. (NOTE: DISCONNECT EXISTING PEDESTRIAN SIGNAL CABLE AND AUDIBLE TACTILE PUSHBUTTON STATION SIGN CABLE AND REMOVE CABLE FROM CONDUITS.

C. INSTALL EXISTING PEDESTAL POLE TO NEW FOUNDATION, INSTALL EXISTING AUDIBLE TACTILE PUSHBUTTON STATION SIGN TO NEW LOCATION, RELOCATE EXISTING SIGNS TO NEW LOCATION AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD ONTO RELOCATED POLE.

D. USE EXISTING MAST ARM POLE, REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, REMOVE EXISTING AUDIBLE TACTILE PUSHBUTTON STATION AND R10-12 SIGN. REPLACE EXISITNG SIGNAL HEADS WITH 12IN. BLACKFACE LED SIGNAL HEADS. (NOTE: DISCONNECT EXISTING PEDESTRIAN SIGNAL CABLE AND AUDIBLE TACTILE PUSHBUTTON STATION SIGN CABLE AND REMOVE CABLE FROM CONDUITS.

E. INSTALL CONCRETE FOUNDATION FOR EXISTING STEEL PEDSTAL POLE WITH BREAKAWAY BASE.

F. RELOCATE EXISTING POLE AND REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

G. USE EXISTING CONDUIT.

H. USE EXISTING ELECTRICAL HANDHOLE.

J. USE EXISTING CONTROLLER AND CABINET.

K. REMOVE & RESET DECORATIVE BRICK AND INSTALL 4 IN. CONCRETE SIDEWALK.

L. INSTALL 3" PVC CONDUIT - TRENCHED.

M. USE EXISTING SERVICE

N. LOCATE EXISTING CONDUIT AND PULL BACK EXISTING CABLE AND RE-ROUTE THROUGH NEW HANDHOLE. INSTALL ELECTRICAL HANDHOLE ON TOP OF EXISITNG CONDUIT .

M. USE EXISTING PEDESATAL POLE, REMOVE EXISTING SIGNAL HEADS, REPLACE EXISITNG SIGNAL HEADS WITH 12 IN. BLACKFACE LED SIGNAL HEADS.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
5. 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.
6. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.

GEOMETRIC LEGEND
- EXISTING
- PROPOSED

UTILITY LEGEND

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

BY: $USERNAME$

BAI
BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUMSEY ROAD SUITE 110
COLUMBIA, MARYLAND 21045
410-884-3607 410-884-3609(FAX)

APPROVALS: TEAM LEADER / ASST. DIV. CHIEF / DIVISION CHIEF / OFFICE DIRECTOR

REVISIONS: (H) ADD COUNTDOWN PEDESTRIAN SIGNALS & UPGRADED APS STD. SHA NO. AT5825185 — 05/08/06

PLOTTED: $DATETIME$
FILE: $FILE$

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

MD 45 (YORK ROAD) AND PENNSYLVANIA AVENUE

SCALE 1" = 20' DATE 12/12/03 CONTRACT NO. B-165-501-476

DESIGNED BY
DRAWN BY SPP
CHECKED BY DLA
F.A.P. NO.

COUNTY BALTIMORE
LOGMILE 03045002.78
T.I.M.S. NO. G 723
TOD NO.

DRAWING NO. 1 OF 2 SHEET NO. OF