

# ENTRANCE TO BOWIE HIGH SCHOOL

### APS NOTES:

- PUSH BUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- THE 10' SEPARATION BETWEEN PUSH BUTTONS IS TO BE MEASURED FROM FACE OF PUSH BUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- PUSH BUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSH BUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- APS WILL FUNCTION AS FOLLOWS:

#### TO CROSS ANNAPOLIS RD AT BELAIR DR.

- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:  
"WAIT TO CROSS ANNAPOLIS AT BELAIR. WAIT."
- WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

#### TO CROSS ANNAPOLIS RD AT ENTRANCE TO BOWIE HIGH SCHOOL.

- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:  
"WAIT TO CROSS ANNAPOLIS AT SCHOOL ENTRANCE. WAIT."
- WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

#### TO CROSS ENTRANCE TO BOWIE HIGH SCHOOL AT ANNAPOLIS RD.

- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:  
"WAIT TO CROSS SCHOOL ENTRANCE AT ANNAPOLIS. WAIT."
- WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

#### TO CROSS BELAIR DR AT ANNAPOLIS RD.

- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:  
"WAIT TO CROSS BELAIR AT ANNAPOLIS. WAIT."
- WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

### GEOMETRIC CONSTRUCTION DETAILS:

- INSTALL PERPENDICULAR SIDEWALK RAMP (STANDARD NO. MD 655.11).
- INSTALL COMBINATION SIDEWALK RAMP (STANDARD NO. MD 655.13).
- INSTALL DETECTABLE WARNING SURFACE (STANDARD NO. MD 655.40).
- INSTALL STANDARD TYPE A COMBINATION CURB AND GUTTER (STANDARD NO. MD 620.02).
- BEGIN 12:1 RAMP.
- BEGIN 48:1 LEVEL LANDING AREA.
- TIE IN RAMP WITH EXISTING SIDEWALK AT JOINT.
- TIE NEW CURB TO EXISTING CURB AT JOINT.
- REMOVE EXISTING RAMP, INSTALL NEW SIDEWALK AND TIE TO EXISTING SIDEWALK.
- REMOVE EXISTING SIDEWALK/BRICK AND BACKFILL WITH SEED AND MULCH.
- REMOVE EXISTING SIDEWALK RAMP AND USE EXISTING DECORATIVE BRICKS.
- REMOVE AND RESET DECORATIVE BRICKS AS NECESSARY.
- INSTALL CONCRETE FLARE AS SHOWN.

REDLINE REVISION NO. 1 DATED 12/3/10  
 TEDD APPROVAL *[Signature]* 12/8/2010

MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION

MD 450 WB (ANNAPOLIS RD)

MD 450 EB (ANNAPOLIS RD)

BELAIR DR

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

LEGEND SYMBOL	DESCRIPTION
⊙	48" SIGNAL POLE FOUNDATION
⊙	36" SIGNAL POLE FOUNDATION
⊙	24" PED POLE FOUNDATION
+	18" PED POLE FOUNDATION W/SIGN AND PUSHBUTTON
—	PED SIGN
•	PED PUSHBUTTON
■	SIGNAL CABINET W/PAD
■	POWER PEDESTAL
■	HANDHOLE

GEOMETRIC LEGEND	DESCRIPTION
---	EXISTING SIDEWALK/CURB JOINT
■	NEW SIDEWALK AND ADA HANDICAP RAMP
■	INSTALL/RESET BRICK
■	SEED AND MULCH

NOTE:  
SIDEWALK JOINTS ARE APPROXIMATELY LOCATED.



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

**MD 450 AT BELAIR DR ENTRANCE TO BOWIE HIGH SCHOOL**  
BOWIE, MD

**GEOMETRIC PLAN SHEET**

SCALE 1"=10'      DATE 08/2010      CONTRACT NO. XX3545168R

DESIGNED BY XM	COUNTY PRINCE GEORGE'S
DRAWN BY XM	LOGMILE 16045012.36
CHECKED BY JB	TMS NO. K253
F.A.P. NO.	TOD NO.

TS NO. 89D      DRAWING - OF      SHEET NO. 2 OF 3



**BRUDIS & ASSOCIATES, INC.**  
Consulting Engineers  
9240 Rumney Road, Suite C  
Columbia, Maryland 21046  
Phone 410-394-2027  
www.brudis.com