

PROJECT DESCRIPTION

I. GENERAL:

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 147 AND EMERALD ROAD / WOODSIDE AVENUE IN BALTIMORE COUNTY. THE MODIFICATION INCLUDES INSTALLATION OF VIDEO DETECTION CAMERAS, LED COUNTDOWN PEDESTRIAN SIGNALS, AND AUDIBLE PUSHBUTTON AND SIGN SYSTEMS.

MD 147 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION WILL OPERATE IN A FOUR-PHASE, FULL-ACTUATED MODE.

MD 147 APPROACHES SHALL OPERATE CONCURRENTLY. EMERALD ROAD AND WOODSIDE AVENUE APPROACHES SHALL OPERATE CONCURRENTLY.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 147 HARFORD ROAD (NORTH APPROACH) AND WOODSIDE AVENUE

WAIT: "WAIT TO CROSS HARFORD AT TAYLOR." *
WALK: RAPID TICK

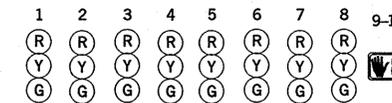
MD 147 HARFORD ROAD (SOUTH APPROACH) AND WOODSIDE AVENUE

WAIT: "WAIT TO CROSS HARFORD AT TAYLOR." *
WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

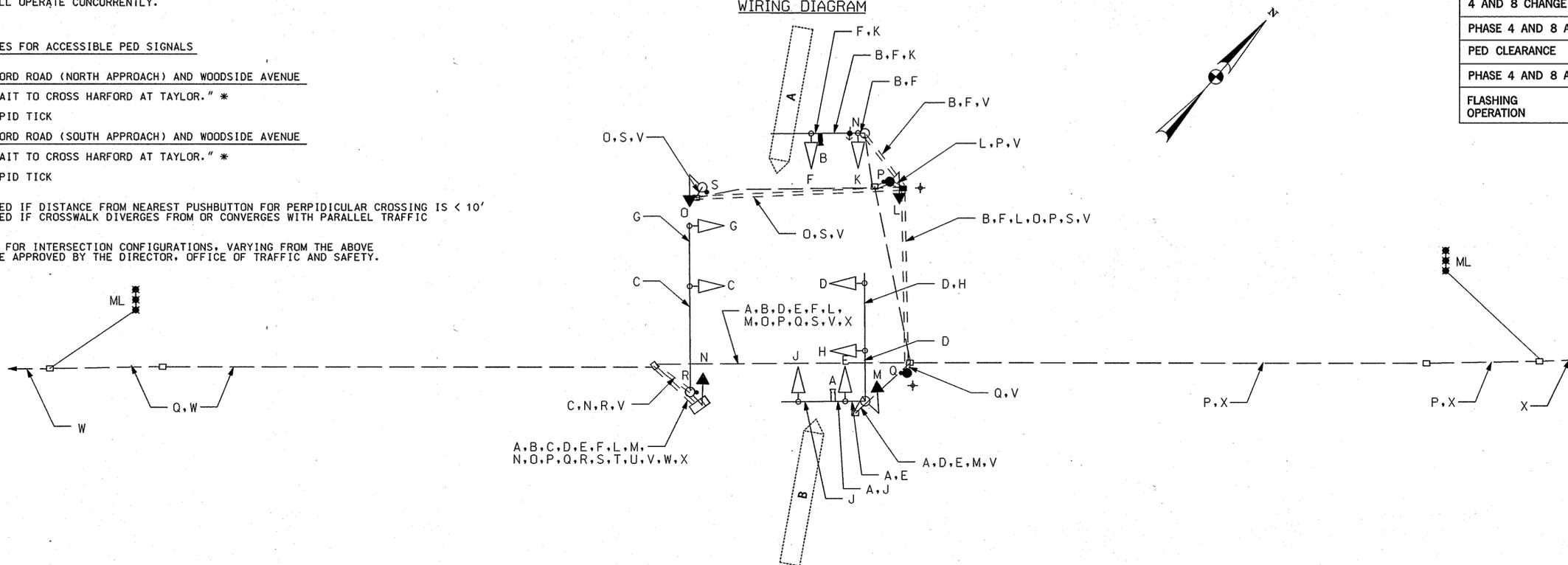
NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

PHASE CHART



PHASE 2 AND 6	G	G	G	G	R	R	R	R	DW	←
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	→
PHASE 4 AND 8	R	R	R	R	G	G	G	G	DW	↑
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	↓
PHASE 4 AND 8 ALT	R	R	R	R	G	G	G	G	WK	↕
PED CLEARANCE	R	R	R	R	G	G	G	G	FL/DW	↕
PHASE 4 AND 8 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	DW	↕
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	↕

WIRING DIAGRAM



WIRING KEY

- A } VIDEO DETECTION CABLE
- B } VIDEO DETECTION CABLE
- C } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- D } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- F } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- G } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- H } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- J } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- K } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- L } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- M } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- N } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- O } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- P } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- Q } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- R } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- S } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- T } MICROLOOP LEAD-IN
- U } MICROLOOP LEAD-IN
- V } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- W } 12 PAIR COMMUNICATION CABLE NO. 19 AWG (JELLY FILLED)
- X } 12 PAIR COMMUNICATION CABLE NO. 19 AWG (JELLY FILLED)
- DZ } VIDEO CAMERA DETECTION ZONE
- + } GROUND ROD

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 147 HARFORD ROAD AND
EMERALD ROAD / WOODSIDE AVENUE

REVISIONS	GENERAL INFORMATION SHEET	
	SCALE NONE	DATE 12/12/2006 CONTRACT NO. BA6835184
	DESIGNED BY AJM	COUNTY BALTIMORE
	DRAWN BY JRL	LOGMILE
	CHECKED BY PAT	T.I.M.S. NO.
	F.A.P. NO.	TOD NO.
	DRAWING NO. SG-2.6 OF 2.12	SHEET NO. 240 OF 291

BY: sbloss

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