

PROJECT DESCRIPTION

I. GENERAL:
 THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 147 AND TAYLOR AVENUE IN BALTIMORE COUNTY. THE MODIFICATION INCLUDES THE INSTALLATION OF LED COUNTDOWN PEDESTRIAN SIGNALS, APS STATIONS, PEDESTRIAN EDUCATION SIGNS, ADDITIONAL VIDEO DETECTION, AND MICROLOOP PROBES.

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

II. INTERSECTION OPERATION:

THE INTERSECTION CURRENTLY OPERATES IN A NEMA 8 PHASE, FULL-ACTUATED MODE. THERE ARE EXCLUSIVE/PERMISSIVE LEFT TURNS FOR BOTH APPROACHES OF MD 147 AND TAYLOR AVENUE. THE THROUGH MOVEMENTS FOR MD 147 OPERATE CONCURRENTLY. BOTH DIRECTIONS OF TAYLOR AVENUE ALSO OPERATE CONCURRENTLY.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 147 HARFORD ROAD (NORTH APPROACH) AND TAYLOR AVENUE

WAIT: "WAIT TO CROSS HARFORD AT TAYLOR." *

WALK: RAPID TICK

MD 147 HARFORD ROAD (SOUTH APPROACH) AND TAYLOR AVENUE

WAIT: "WAIT TO CROSS HARFORD AT TAYLOR." *

WALK: RAPID TICK

TAYLOR AVENUE (WEST APPROACH) AND MD 147 HARFORD ROAD

WAIT: "WAIT TO CROSS TAYLOR AT HARFORD." *

WALK: RAPID TICK

TAYLOR AVENUE (EAST APPROACH) AND MD 147 HARFORD ROAD

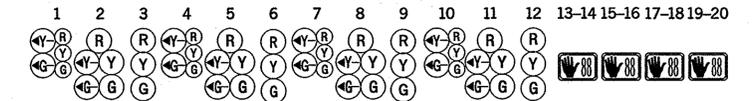
WAIT: "WAIT TO CROSS TAYLOR AT HARFORD." *

WALK: RAPID TICK

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

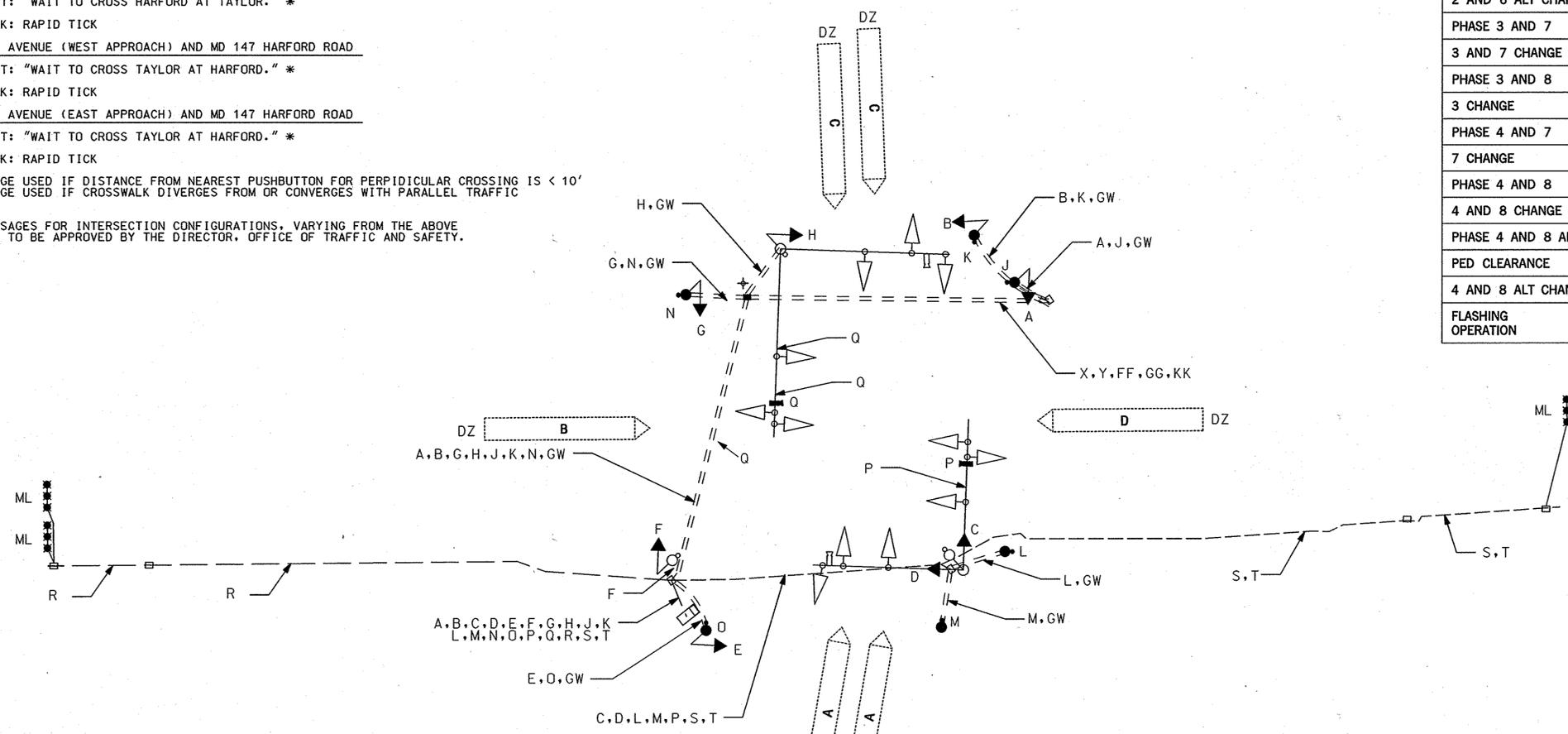
NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

PHASE CHART



PHASE 1 AND 5	<GR	<GR	R	<GR	<GR	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																	
PHASE 1 AND 6	<GG	<GG	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
6 CHANGE	<YG	<YG	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	<GG	<GG	G	R	R	R	R	R	R	R	DW	DW	DW	DW
5 CHANGE	R	R	R	<YG	<YG	G	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6 ALT	G	G	G	G	G	G	R	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	R	FLDW	FLDW	DW	DW
2 AND 6 ALT CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3 AND 7	R	R	R	R	R	R	<GR	<GR	R	<GR	<GR	R	R	DW	DW	DW	DW
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8																	
PHASE 3 AND 8	R	R	R	R	R	R	R	R	R	<GG	<GG	G	DW	DW	DW	DW	
3 CHANGE	R	R	R	R	R	R	R	R	R	<YG	<YG	G	DW	DW	DW	DW	
PHASE 4 AND 7	R	R	R	R	R	R	<GG	<GG	G	R	R	R	R	DW	DW	DW	DW
7 CHANGE	R	R	R	R	R	R	<YG	<YG	G	R	R	R	R	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	DW	FLDW	FLDW
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

- A } MICROLOOP LEAD-IN
- B } MICROLOOP LEAD-IN
- C } MICROLOOP LEAD-IN
- D } MICROLOOP LEAD-IN
- E } MICROLOOP LEAD-IN
- F } MICROLOOP LEAD-IN
- G } MICROLOOP LEAD-IN
- H } MICROLOOP LEAD-IN
- I } MICROLOOP LEAD-IN
- J } MICROLOOP LEAD-IN
- K } MICROLOOP LEAD-IN
- L } MICROLOOP LEAD-IN
- M } MICROLOOP LEAD-IN
- N } MICROLOOP LEAD-IN
- O } MICROLOOP LEAD-IN
- P } MICROLOOP LEAD-IN
- Q } MICROLOOP LEAD-IN
- R } MICROLOOP LEAD-IN
- S } MICROLOOP LEAD-IN
- T } MICROLOOP LEAD-IN
- GW } NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- + } GROUND ROD
- DZ } VIDEO CAMERA DETECTION ZONE
- 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- VIDEO DETECTION CABLE

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 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 147 HARFORD ROAD AND
 TAYLOR ROAD

REVISIONS	GENERAL INFORMATION SHEET	
	SCALE NONE	DATE 12/12/2006
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	CHECKED BY PAT	T.I.M.S. NO.
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	DRAWING NO. SG-2.2 OF 2.12	SHEET NO. 236 OF 291

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