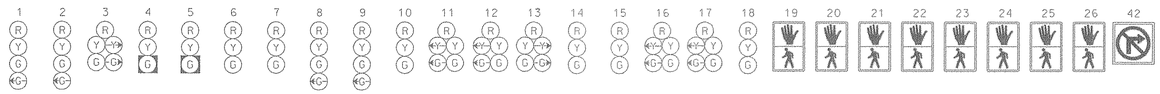
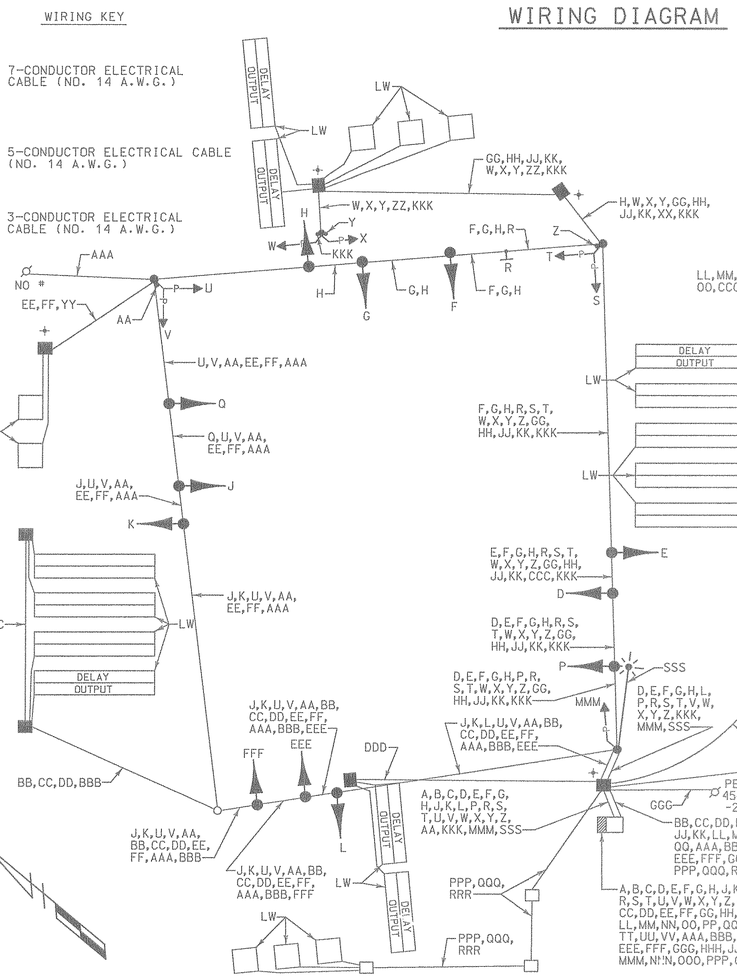
MD 115 AND SHADY GROVE RD./AIRPARK RD.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	42
PHASE 1 + 5	R	R	R G	G	G	R	R	R	R	R	R G	R G	R	R	R	R G	R G	R	DW	DW	DW	DW	DW	DW	DW	DW	DARK
1 + 5 CHANGE	1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6																										
PHASE 1 + 6	R	R	R G	G	G	R	R	R	R	R	G G	G G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DARK
1 + 6 CHANGE	R	R	R Y	G	G	R	R	R	R	R	G Y	G Y	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DARK
PHASE 2 + 5	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R	G G	G G	G	DW	DW	DW	DW	DW	DW	DW	DW	DARK
2 + 5 CHANGE	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R	G Y	G Y	G	DW	DW	DW	DW	DW	DW	DW	DW	DARK
PHASE 2 + 6	R	R	R	G	G	R	R	R	R	R	G	G	G	R	R	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK	DARK
PED CLEARANCE	R	R	R	G	G	R	R	R	R	R	G	G	G	R	R	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW	DARK
2 + 6 CHANGE	R	R	R	G	G	R	R	R	R	R	Y	Y	Y	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW	DARK
PHASE 3	G G	G G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DARK
3 CHANGE	Y	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DARK
PHASE 4	R	R	R	G	G	G	G	G G	G G	G	R	R	R G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DARK
4 CHANGE	R	R	R	G	G	Y	Y	Y	Y	Y	R	R	R Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DARK
PHASE 4 ALT	R	R	R	G	G	G	G	G G	G G	G	R	R	R G	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW	DARK
PED CLEARANCE	R	R	R	G	G	Y	Y	Y	Y	Y	R	R	R Y	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW	DARK
4 ALT CHANGE	Y	Y	Y	G	G	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DARK
FIREHOUSE	R	R	R	R	R	R	R	G G	G G	G	R	R	R	G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
PRE-EMPTION	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DARK
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/Y	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

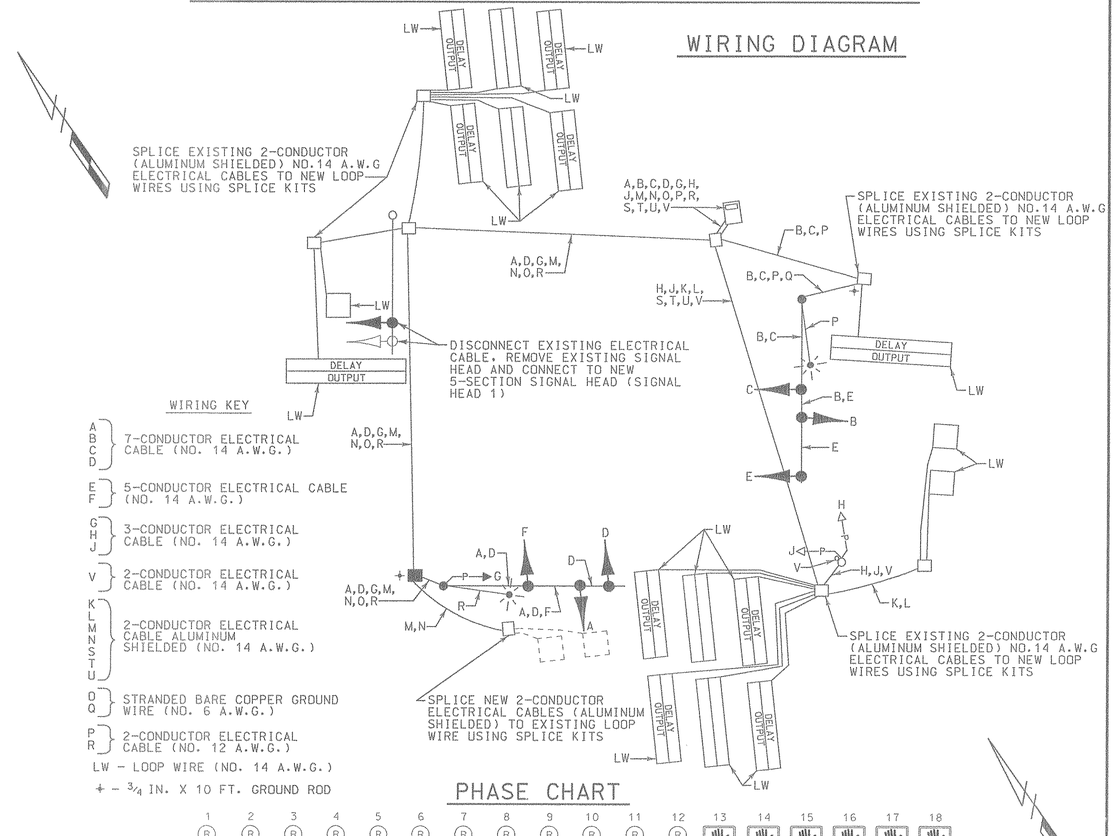
- Y, Z, AA, KKK, MMM — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- BB, CC, DD, EE, FF, GG, HH, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ — 2-CONDUCTOR ELECTRICAL CABLE ALUMINUM SHIELDED (NO. 14 A.W.G.)
- WW, XX, YY, ZZ — STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- AAA, GGG — EXISTING INTERCONNECT CABLE (SEE CONSTRUCTION DETAIL 'FF' AND 'OO' ON SHEET TSP-1)
- SSS — 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- HHH, JJJ, LLL — 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)

LW - LOOP WIRE (NO. 14 A.W.G.)

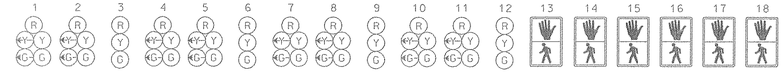
+ - 3/4 IN. X 10 FT. GROUND ROD

MD 115 AND REDLAND RD./MUNCASTER RD.

WIRING DIAGRAM



PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 + 5	R G	R G	R	R G	R G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 + 5 CHANGE	1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6																	
PHASE 1 + 6	G G	G G	G	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
1 + 6 CHANGE	G Y	G Y	G	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 2 + 5	R	R	R	G G	G G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
2 + 5 CHANGE	R	R	R	G Y	G Y	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 + 7	R	R	R	R	R	R	R G	R G	R	R G	R G	R	DW	DW	DW	DW	DW	DW
3 + 7 CHANGE	3 + 7 MAY CHANGE TO PHASE 3 + 8, PHASE 4 + 7 OR PHASE 4 + 8																	
PHASE 3 + 8	R	R	R	R	R	R	G G	G G	G	R	R	R	DW	DW	DW	DW	DW	DW
3 + 8 CHANGE	R	R	R	R	R	R	G Y	G Y	G	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 + 7	R	R	R	R	R	R	R	R	R	G G	G G	G	DW	DW	DW	DW	DW	DW
4 + 7 CHANGE	R	R	R	R	R	R	R	R	R	G Y	G Y	G	DW	DW	DW	DW	DW	DW
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW
4 + 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

TSP-4

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REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENG. DESIGN DIVISION
	ASST. CHIEF, TRAFFIC ENG. DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 115 INTERSECTIONS

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO.		
SCALE: NONE	COUNTY: MONTGOMERY	T.I.M.S. NO.	48 OF 63
DATE: 11/5/99	LOG MILE:		