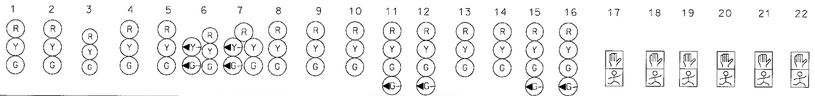
MD 108: TEN OAKS ROAD AND MD 32 S.B. OFF RAMP / MD 32 E.B. ON RAMP

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PHASE 2 & 5	G	G	R	R	R	◄G-/G	◄G-/G	G	G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
2 & 5 CHANGE	G	G	R	R	R	◄Y-/G	◄Y-/G	G	G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEAR	G	G	G	G	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	G	G	G	G	G	Y	Y	Y	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
OVERLAP CLEAR	G	G	G	G	G	R	R	R	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
OVERLAP CHANGE	Y	Y	G	G	G	R	R	R	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	G	G	G	R	R	R	R	R	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	Y	Y	Y	R	R	R	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	DW	DW	DW	DW	WK	WK
PED CLEAR	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	DW	DW	DW	DW	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	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

WIRING DIAGRAM

WIRING KEY

A - 20-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

B - PRE-MANUFACTURED CAMERA TO CONTROLLER CABLE (500')

C, D } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) ALUMINUM SHIELDED

E, F, G, H } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

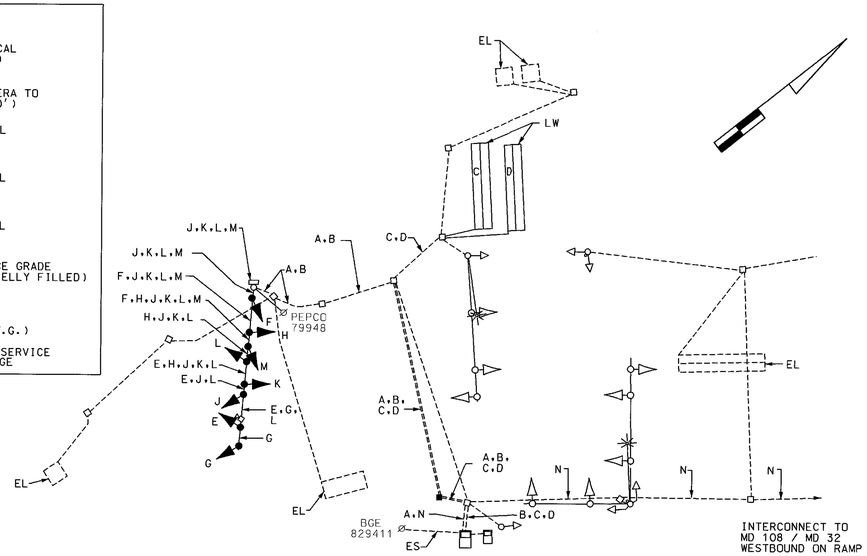
J, K, L, M } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

N - EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED)

EL - EXISTING LOOP WIRE (NO. 14 A.W.G.)

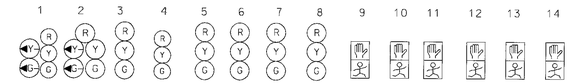
LW - LOOP WIRE (NO. 14 A.W.G.)

ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY BGE



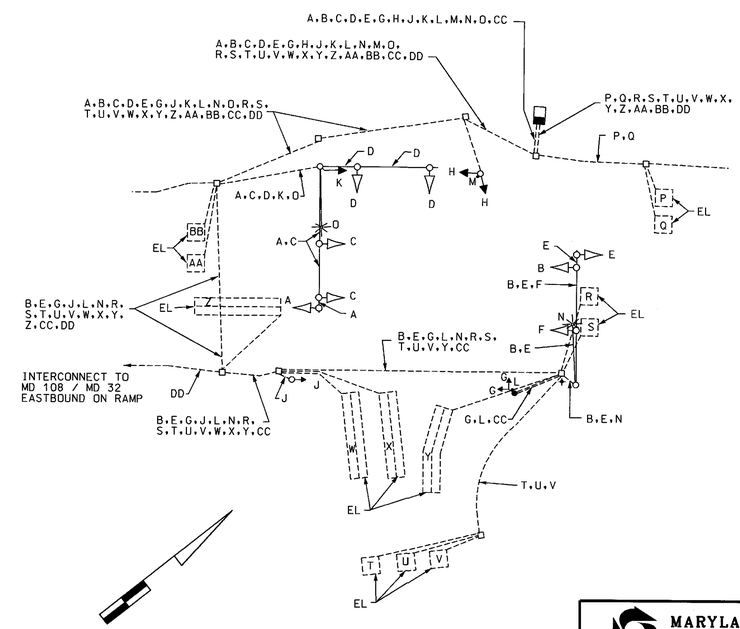
MD 108 AND MD 32 W.B. OFF RAMP / MD 32 N.B. ON RAMP

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 & 6	◄G-/G	◄G-/G	G	R	R	R	R	R	DW	WK	WK	DW	DW	DW
1 & 6 CHANGE	◄Y-/G	◄Y-/G	G	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	WK	WK	WK	WK	DW	DW
PED CLEAR	G	G	G	G	G	G	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	G	G	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	DW	DW	DW	DW	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	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	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A, B } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

C, D, E, F, G, H } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

J, K } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

L, M } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

N, O } 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G)

P, Q, R, S, T, U } V, W, X, Y, Z, AA, BB } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) ALUMINUM SHIELDED SPLICED TO EXISTING LOOP WIRE

CC - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

DD - EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED)

EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING

PS - PROPOSED OVERHEAD ??SERVICE TO BE INSTALLED BY ??????

+ - GROUND ROD

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

4148GI.dgn TASK45

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 108 AND MD 32 W.B. OFF RAMP / MD 32 N.B. ON RAMP

DRAWN BY:		F.A.P. NO.		TS NO.	SHEET NO.
CHECKED BY:		S.H.A. NO.	K-8501		3 OF 4
SCALE:	NONE	COUNTY:	HOWARD	T.I.M.S. NO.	
DATE:	6/21/02	LOG MILE:	13010803.78	F068	