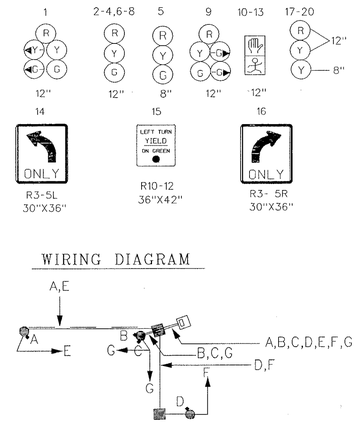
PROJECT DESCRIPTION

GENERAL

This project involves the modification to the existing traffic control signal. The modification involves providing alternate pedestrian phasing for crossing the north leg of MD 173 and Riviera Drive.

MD 173 is assumed to run in a NORTH-SOUTH DIRECTION

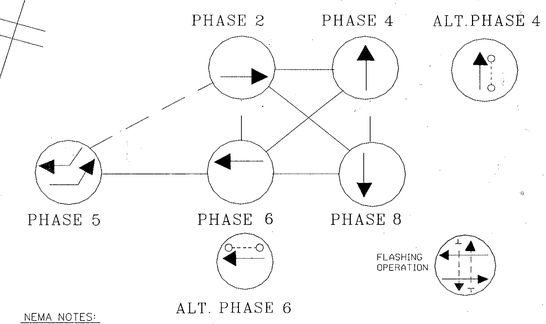
	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW
2 & 6 ALT.	G	G	G	G	R	R	R	R	R	WK	WK	DW	DW
PED. CLEAR	G	G	G	G	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 & 6 ALT. CHANGE	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW
2 & 5	G ◄G–	G	R	R	R	R	R	R	R –G►	DW	DW	DW	DW
2 & 5 CHANGE	Y ◄Y–	Y	Y	Y	R	R	R	R	R –Y►	DW	DW	DW	DW
4 & 8	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW
4 & 8 ALT.	R	R	R	R	G	G	G	G	G	DW	DW	WK	WK
PED. CLEAR	R	R	R	R	G	G	G	G	G	DW	DW	FL/DW	FL/DW
ALT. & CHANGE	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK			



WIRING DIAGRAM

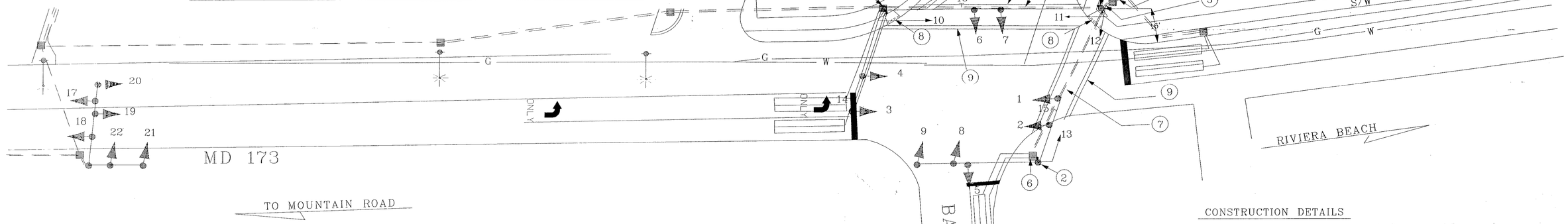
A,B,C,D 2-Conductor (No.14 A.W.G.)
E,F 3-Conductor (No.14 A.W.G.)
G 5-Condoctor (No.14 A.W.G.)

NEMA PHASING



NEMA NOTES:

1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



EQUIPMENT LIST 'A'

EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

QUANTITY	DESCRIPTION
2 ea.	12" one-way, two-section (Symbolic) pedestrian signal head, pole mounted.
1 ea.	12" two-way, two-section (Symbolic) pedestrian signal head, pedestal mounted.
2 ea.	Pedestrian pushbutton and sign (Note: Sign will read: "PUSHBUTTON TO CROSS RIVIERA DRIVE"
2 ea.	Pedestrian pushbutton and sign (Note: Sign will read: "PUSHBUTTON TO CROSS FT. SMALLWOOD RD."

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISH AND INSTALL BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA.	Maintenance of Traffic Per Assignment
2001	1 C.Y.	Test Pit Excavation
6001	32 S.F.	4" concrete sidewalk
6010	20 L.F.	F&I depressed curb and gutter
8001	1 C.Y.	Concrete for signal foundation
8003	1 EA.	F&I 10' breakaway pedestal
8011	4 EA.	Install 12" one-way signal head
8018	4 EA.	Install pedestrian pushbutton with sign
8024	10 FT.	F&I 2" schedule 80 PVC conduit, trenched
8030	15 FT.	F&I 4" schedule 80 rigid PVC conduit-trenched
8034	1 EA.	F&I ¾"x 10' ground rod
8042	250 L.F.	F&I 2-conductor electrical cable No. 14 A.W.G.
8043	240 L.F.	F&I 3-conductor electrical cable No. 14 A.W.G.
8044	35 L.F.	F&I 5-conductor electrical cable No. 14 A.W.G.
8049	10 L.F.	F&I 1-conductor electrical cable No.6 A.W.G. stranded bare copper ground wire
8065	1 EA.	Install conduit bend in existing base
NEG.	32 S.F.	Remove existing sideway and curb for ADA ramp

CONSTRUCTION DETAILS

1. Install 10 ft. breakaway pedestal pole, pedestrian signal heads and pushbuttons. (Note: 1-2 in. schedule 80, 90 degree PVC bend)
2. Install pedestrians signal head and pushbutton on steel pole.
3. Install 2 in. schedule 80 PVC conduit, trenched.
4. Install 4 in. schedule 80 PVC conduit, trenched
5. Modify exiting controller to add pedestrian phasing. (Note: Provide 4 in. bend
6. Use existing handhole.
7. Use existing conduit.
8. Depress existing curb and gutter and install ADA ramp.
9. Crosswalk will be installed by District Forces.

REVISIONS	APPROVALS
C 1/16/98 ADD PEDESTRIAN MOVEMENT FOR NORTH & EAST APPROACHES	ORIGINAL — ASST. DIVISION CHIEF, TEDD
	ASST. DISTRICT ENGINEER, TRAFFIC — ON
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — FILE
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 173 @ BAR HARBOR ROAD/RIVIERA DRIVE

REVISED / /

DRAWN BY: W.E. MILLER	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
CHECK BY: D. DODA	S.H.A. NO. 13857250760B	1369C	1 OF 1
SCALE: 1"=20'	COUNTY ANNE ARUNDEL		