

PROJECT DESCRIPTION

I. GENERAL
 This portion of the project involves the installation of new loop detectors and probes B. at the intersection of MD 273 (Main Street) and Rising Sun Town Center Entrance / Pumping Station Lane in Cecil County, Maryland. MD 273 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

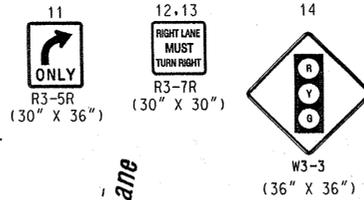
The intersection currently operates in NEMA four (4) phase, full-traffic-actuated mode. The MD 273 through movements operate concurrently with a concurrent pedestrian movement across the south leg of the intersection. The Rising Sun Town Center Entrance / Pumping Station Lane movements operate concurrently with an actuated pedestrian movement across the west leg of the intersection.

The existing cabinet/controller, and phasing will be utilized.

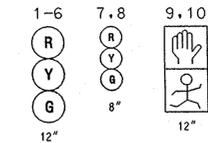
EQUIPMENT LIST

Category Code No.	Quantity	Units	Description
800000	1	LS	Video detection system
810550	2	EA	Micro-loop probe (set of 3) with 500 ft. lead-in cable.
805135	200	LF	3 in. polyvinyl chloride [Schedule 80] electrical conduit (trenched during construction).
811001	1	EA	Handhole.

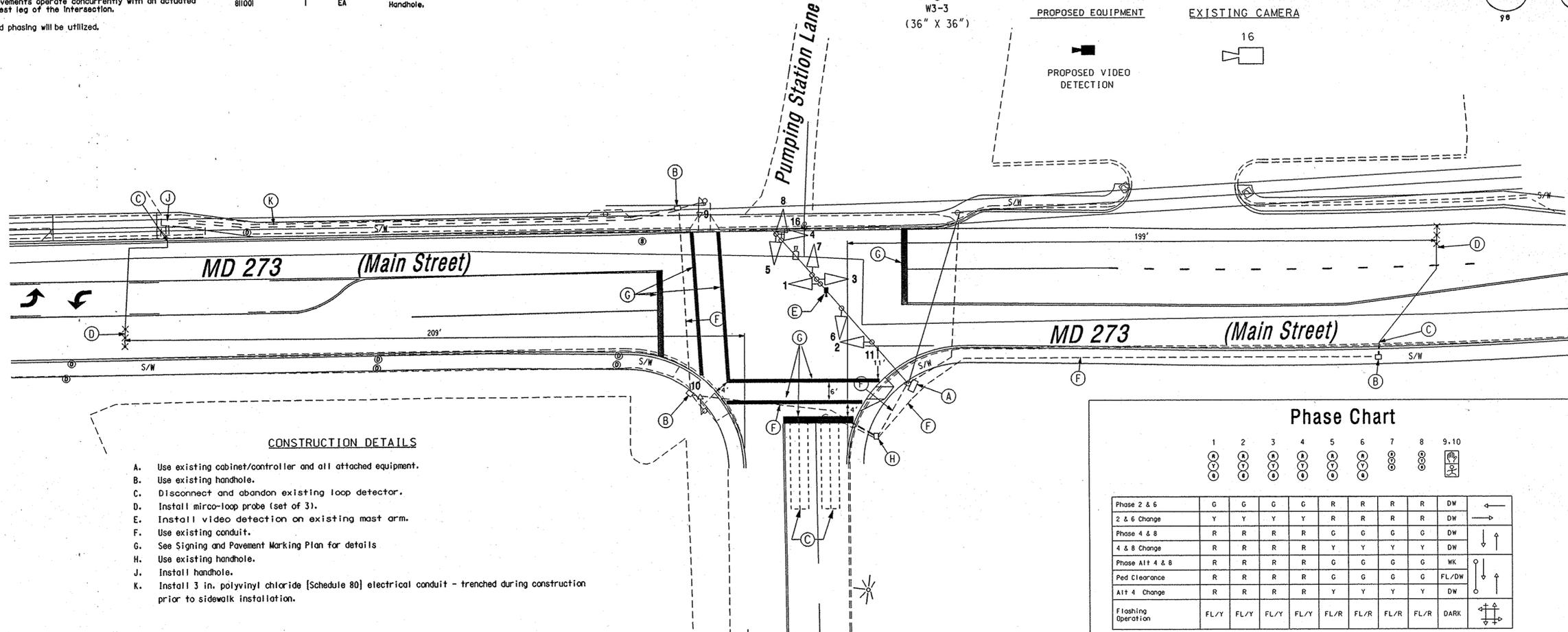
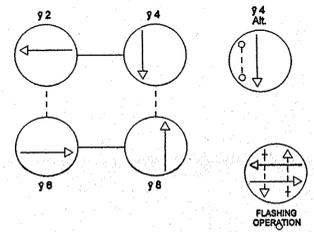
EXISTING SIGNS



EXISTING SIGNALS



EXISTING NEMA PHASING



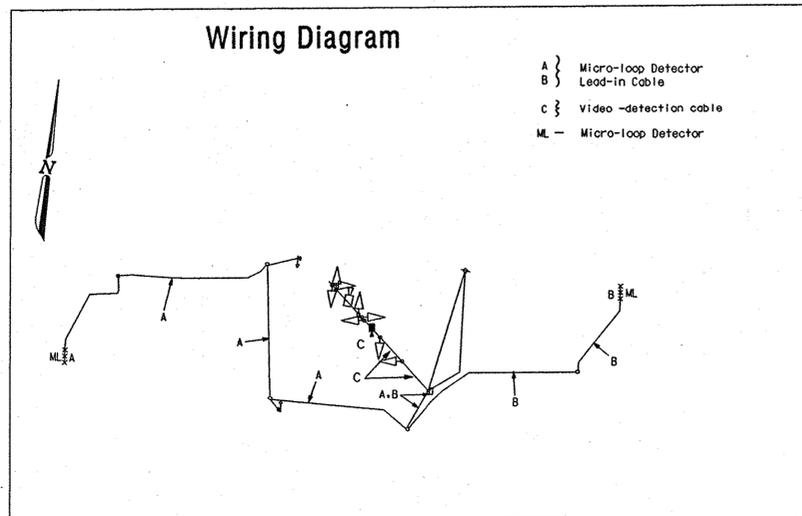
CONSTRUCTION DETAILS

- A. Use existing cabinet/controller and all attached equipment.
- B. Use existing handhole.
- C. Disconnect and abandon existing loop detector.
- D. Install micro-loop probe (set of 3).
- E. Install video detection on existing mast arm.
- F. Use existing conduit.
- G. See Signing and Pavement Marking Plan for details.
- H. Use existing handhole.
- J. Install handhole.
- K. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched during construction prior to sidewalk installation.

Phase Chart

	1	2	3	4	5	6	7	8	9-10	
Phase 2 & 6	G	G	G	G	R	R	R	R	DW	←
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	DW	→
Phase 4 & 8	R	R	R	R	G	G	G	G	DW	↓
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	DW	↑
Phase Alt 4 & 8	R	R	R	R	G	G	G	G	WK	↕
Ped Clearance	R	R	R	R	G	G	G	G	FL/DW	↕
Alt 4 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



- A } Micro-loop Detector
- B } Lead-in Cable
- C } Video-detection cable
- M - Micro-loop Detector

Rising Sun Town Center Entrance

NOTES

- Loop detectors and conduits shall be installed prior to the installation of pavement markings, sidewalks, and final paving.
- Pavement markings detailed are proposed and are to be installed as part of the highway project or are considered as existing.
- Revision 'A' is a revision to the traffic signal built in October, 2000.
- All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.

GEOMETRIC LEGEND

- ◊ ADA RAMPS
- EXISTING GEOMETRICS
- PROPOSED GEOMETRICS

UTILITY LEGEND

- G — GAS MAIN
- W — WATER MAIN
- S — SEWER MAIN
- E — ELECTRIC CABLES
- D — STORM DRAIN
- A — AERIAL CABLES
- T — TELEPHONE CABLES

 The Traffic Group, Inc. 410-931-6600 Fax 410-931-6601	REVISIONS _____ _____ _____ _____	APPROVALS _____ _____ _____ _____	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION MD 273 @ RISING SUN SHOPPING CENTER RISING SUN, MARYLAND		
	DATE: 10/10/2000		DRAWN BY: T. ZAYDEL CHECKED BY: K. SCHMID SCALE: 1:20	F.A.P. NO. SEE TITLE SHEET S.H.A. NO. CE794A21 COUNTY: CECIL LOG MILE: 07027302.10	
	DATE: 5/02		DIRECTOR, TRAFFIC & SAFETY	T.S. NO. T.I.M.S. NO. E-700	SHEET NO. 68 OF 141
	@ UPGRADE DETECTION FOR NB APPROACH		ORIGINAL ON FILE		