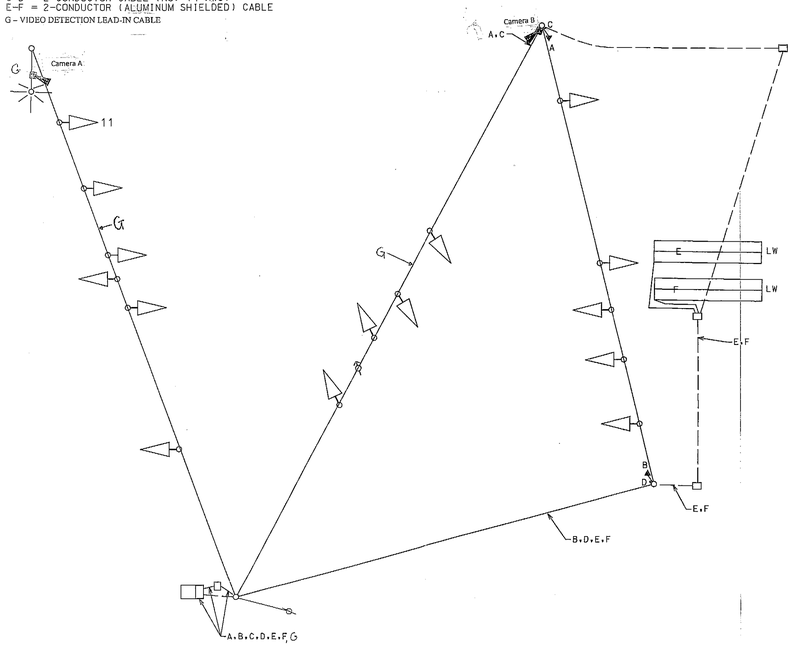
MD 210 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION.

WIRING DIAGRAM

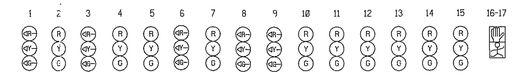
A-B = 3-CONDUCTOR CABLE (NO. 14 AWG)
C-D = 2-CONDUCTOR CABLE (NO. 14 AWG)
E-F = 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE
G - VIDEO DETECTION LEAD-IN CABLE



Construction Details

1. Install triple Micro Loop probe set(s).
2. Rebuilt existing handhole. Cap and abandon existing detector sleeves and remove existing loop detection lead-in cables. Install proposed detector sleeves and triple micro loop probe lead-in cables.
3. Use existing conduit. Remove existing loop detection lead-in cables and install proposed triple micro loop probe lead-in cables.
4. Rebuild existing handhole. Remove existing loop detection lead-in cables and install proposed triple micro loop probe lead-in cables.
5. Use existing handhole. Remove existing loop detection lead-in cables and install proposed triple micro loop probe lead-in cables.
6. Locate and raise handhole to grade. Cap and abandon existing detector sleeves and remove existing loop detector lead-in cables. Install proposed detector sleeves and triple micro loop probe lead-in cables.
7. Use existing strain pole. Remove existing loop detection lead-in cables and install proposed triple micro loop probe lead-in cables. Install proposed video camera and video detection lead-in cable.
8. Use existing span wire. Remove existing loop detection lead in cables and install proposed video detection and triple micro loop probe lead-in cable.
9. Use existing handhole. Cap and abandon existing detector sleeves and install proposed detector sleeves. Remove existing loop detection lead-in cables and install proposed triple micro loop probe lead-in cable.
10. Install 6'x30' loop detector.
11. Use existing handhole. Cap and abandon existing detector sleeves and install proposed detector sleeves. Remove existing loop detector lead-in cables and install proposed loop detection and triple micro loop probe lead-in cables. Splice proposed loop wires to proposed loop detection lead-in cable.
12. Use existing conduit. Remove existing loop detector lead-in cables and install proposed loop detector lead-in and triple micro loop probe lead-in cables.
13. Use existing strain pole. Remove existing loop detection lead-in cables and install proposed loop detection and triple micro loop probe lead-in cables.
14. Use existing luminaire arm. Install proposed video detection camera and video detection lead-in cable.
15. Use existing span wire. Remove existing loop detection lead-in cables and install proposed video, triple micro loop probe and loop detection lead-in cables.
16. Use existing strain pole. Remove existing loop detection lead-in cables and install proposed video, triple micro loop probe and loop detection lead-in cables.
17. Use existing conduit. Remove existing loop detector lead-in cables for phases 2, 4 & 5 and install proposed video, triple micro loop probe and loop detection lead-in cables.
18. Use existing handhole. Remove existing loop detector lead-in cables for phase 2, 4, 4 & 6 and install proposed video, triple micro loop probe and loop detection lead-in cables.
19. Install 4" PVC conduit. Re-route and install all detection cables into proposed conduit.
20. Use existing controller cabinet. Install a 2" pvc bend to accommodate phone drop and a 4" pvc bend for detection cables. Remove existing loop detection cables for phases 2, 4, 5 & 6 and install proposed video, triple micro loop and loop detection lead-in cables. TOD personnel will install and program video detection interface equipment and re-tune amplifiers after completion of proposed detection work.
21. Remove existing stop line and re-install in accordance to SHA Standards.
22. Remove right lane stop line.
23. Use existing handhole. Cap and abandon existing detector sleeve and remove existing loop detection lead-in cables.
24. Use existing conduit. Remove existing loop detection lead-in cables.
25. Use existing handhole. Remove existing loop detection lead-in cables.
26. Use existing strain pole. Remove existing loop detection lead-in cables.
27. Use existing span wire. Remove existing loop detection lead-in cable.
28. Raise existing handhole to grade.

PHASE CHART



PHASE 1 & 5	◁G-	R	◁G-	R	R	◁G-	R	◁G-	◁G-	R	R	R	R	R	R	DW
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6															
PHASE 1 & 6	◁G-	G	◁G-	G	G	◁R-	R	◁R-	◁R-	R	R	R	R	R	R	DW
1 CHANGE	◁Y-	G	◁Y-	G	G	◁R-	R	◁R-	◁R-	R	R	R	R	R	R	DW
PHASE 2 & 5	◁R-	R	◁R-	R	R	◁G-	G	◁G-	◁G-	G	G	R	R	R	R	DW
5 CHANGE	◁R-	R	◁R-	R	R	◁Y-	G	◁Y-	◁Y-	G	G	R	R	R	R	DW
PHASE 2 & 6	◁R-	G	◁R-	G	G	◁R-	G	◁R-	◁Y-	G	G	R	R	R	R	DW
2 & 6 CHANGE	◁R-	Y	◁R-	Y	Y	◁R-	Y	◁R-	◁Y-	Y	Y	R	R	R	R	DW
PHASE 4 & 8	◁R-	R	◁R-	R	R	◁R-	R	◁R-	◁R-	R	R	G	G	G	G	DW
4 & 8 CHANGE	◁R-	R	◁R-	R	R	◁R-	R	◁R-	◁R-	R	R	Y	Y	Y	Y	DW
Ø8 ALT.	◁R-	R	◁R-	R	R	◁R-	R	◁R-	◁R-	R	R	G	G	G	G	WK
PED. CLEAR	◁R-	R	◁R-	R	R	◁R-	R	◁R-	◁R-	R	R	G	G	G	G	FL/DW
Ø8 ALT. CHANGE	◁R-	R	◁R-	R	R	◁R-	R	◁R-	◁R-	R	R	Y	Y	Y	Y	DW
FLASHING OPERATION	FL/RA	FL/Y	FL/RA	FL/Y	FL/R	FL/RA	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK

FIRE HOUSE PRE-EMPTION

FIREHOUSE PRE-EMPTION PHASE 4	◁R-	R	◁R-	R	R	◁R-	R	◁R-	◁R-	R	R	R	R	G	G	DW
PRE-EMPTION CLEARANCE	◁R-	R	◁R-	R	R	◁R-	R	◁R-	◁R-	R	R	R	R	Y	Y	DW
PHASE 2 & 6 NORMAL OPERATION	◁R-	G	◁R-	G	G	◁R-	G	◁R-	◁R-	G	G	R	R	R	R	DW

Equipment List 'A'

Equipment to be supplied and installed by SHA.

Communication Panel
TS-2 Mini-Hub
TS-2 Mini-Hub Cables
Industrial 56k Modem
SDLC Cables

Equipment List 'B'

Equipment to be furnished and installed by the Contractor.

ITEM	QUANTITY		DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
5003	140	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5004	155	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH
8015	2	EA	CONDUIT BEND IN EXISTING BASE
8017	2	EA	REBUILD HANDHOLE- NEW FRAME & COVER
8018	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8022	5	LF	DISCONNECT, PULL-BACK & REROUTE CABLE
8036	5	LF	4 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
8040	30	LF	1 IN. LIQUID TIGHT FLEXABLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8043	3	EA	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE
8044	4	EA	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
8050	2	EA	VIDEO DETECTION CAMERA & CONTROLLER CABLES UP TO 500 LF
8057	375	LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8062	475	LF	LOOP WIRE ENCASED IN FLEXABLE TUBING (NO.14 AWG)
8063	275	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
8072-A	1	EA	ADJUST HANDHOLE TO GRADE

Equipment List 'C'

Removed and Salvaged Items

NONE

REVISIONS	APPROVALS
Installation of Video Detection. 3/08 OT-2007 J-165	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF, TRAFFIC ENGINEERING 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

MD 210 and MD 373
NORTH ACCOKEEK, MARYLAND

DRAWN BY: W.Malcolm	F.A.P. NO.	T.S. NO. TS-556 F	SHEET NO.
CHECKED BY:	S.H.A. NO.		
SCALE: NO SCALE	COUNTY PRINCE GEORGE'S	T.I.M.S. NO. J-165	2 OF 2
DATE:	LOG MILE 16021003.39		