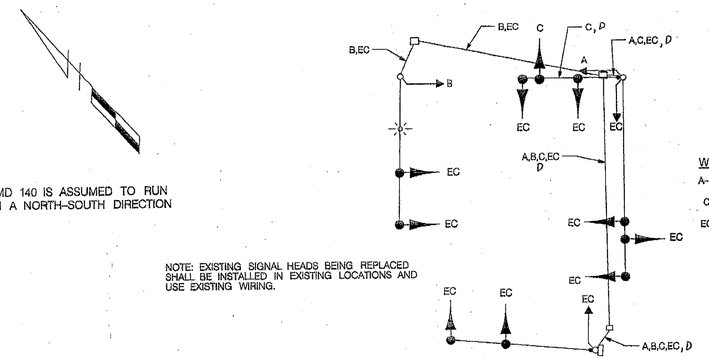
WIRING DIAGRAM



MD 140 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

NOTE: EXISTING SIGNAL HEADS BEING REPLACED SHALL BE INSTALLED IN EXISTING LOCATIONS AND USE EXISTING WIRING.

WIRING KEY

A-B	3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
EC	EXISTING CABLE
D	VIDEO DETECTION LEAD-IN CABLE

PROPOSED VIDEO DETECTION CAMERA
A

EXISTING SIGNS

20,21 — S1-1 30" x 30" FL-Y; M6-2 15" x 21" FL-YG

22 — S1-1 30" x 30" FL-Y; M6-2 15" x 21" FL-YG

26 — SCHOOL; FINES DOUBLE

19 — NO TURN ON RED; R10-11 b 18" x 24"

EXISTING SIGNALS

15-16, 24-25 — Y 12" LED

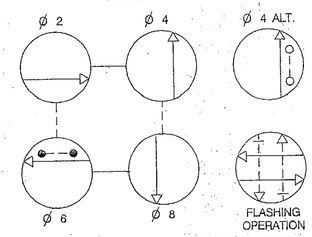
EXISTING SIGNALS

1-7, 9-10 — R, Y, G 12"

8 — R, Y, G 8"

11-14 — 12"

NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

17a — Ritters Lane / Enchanted Hills Rd — D3-2 SINGLE FACE SIGN (VAR. X 32")

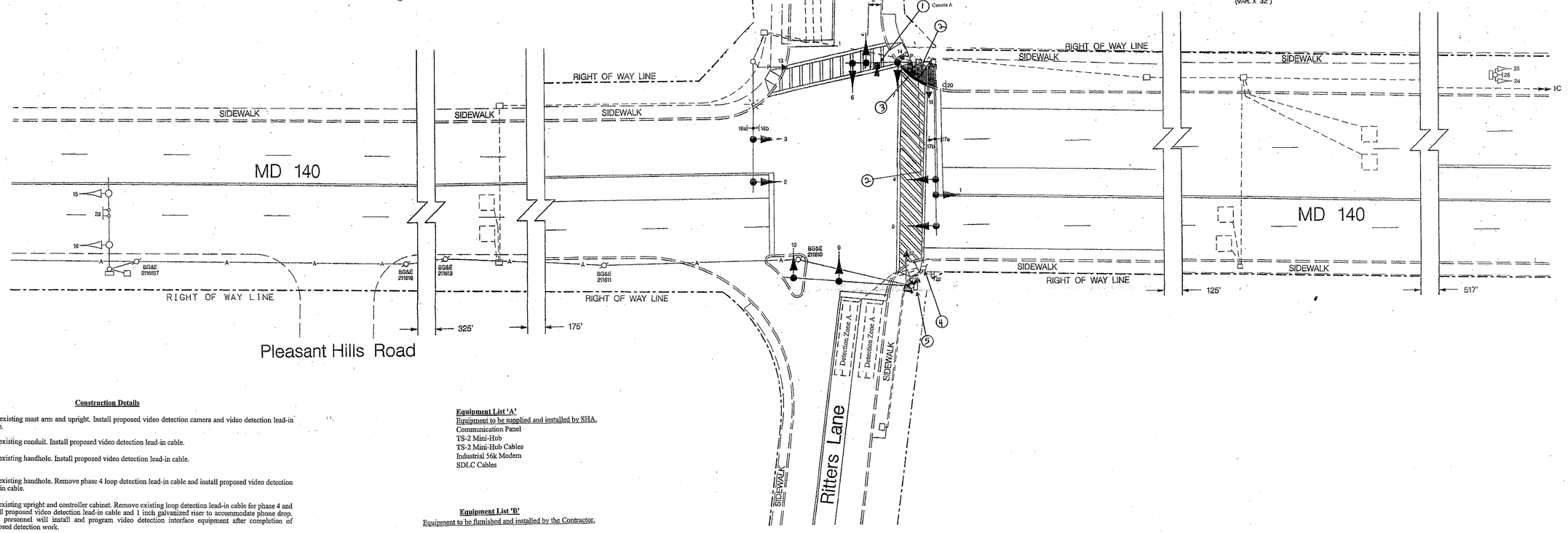
18a — Enchanted Hills Rd / Ritters Lane — D3-2 SINGLE FACE SIGN (VAR. X 32")

23 — SIGNAL AHEAD / PREPARE TO STOP WHEN FLASHING — W3-3(2) 120" x 60" FL-Y

EXISTING SIGNS

18b — Ritters Lane / Enchanted Hills Rd — D3-2 SINGLE FACE SIGN (VAR. X 32")

17b — Enchanted Hills Rd / Ritters Lane — D3-2 SINGLE FACE SIGN (VAR. X 32")



Construction Details

1. Use existing mast arm and upright. Install proposed video detection camera and video detection lead-in cable.
2. Use existing conduit. Install proposed video detection lead-in cable.
3. Use existing handhole. Install proposed video detection lead-in cable.
4. Use existing handhole. Remove phase 4 loop detection lead-in cable and install proposed video detection lead-in cable.
5. Use existing upright and controller cabinet. Remove existing loop detection lead-in cable for phase 4 and install proposed video detection lead-in cable and 1 inch galvanized riser to accommodate phone drop. TOD personnel will install and program video detection interface equipment after completion of proposed detection work.

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
8018	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8029	30 LF	1 IN. ELECTRICAL CONDUIT- GALVANIZED RISER
8050	1 EA	VIDEO DETECTION CAMERA & CONTROLLER CABLES UP TO 500 LF

Equipment List 'C'
Removed and Salvaged Items
NONE

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

REVISIONS

C	Installation of Video Detection OT 2007 06/2008	TJMS# J-215
LM		
P	INSTALL PEDESTRIAN INDICATIONS ACROSS ENCHANTED HILLS ROAD & REPLACE PUSHBUTTONS & SIGNS	
12-30-04		SHA NO. AT6825185
TMZ		
E	REPLACE HB3 SIGN WITH "SIGNAL AHEAD PREPARE TO STOP WHEN FLASHING" SIGN	
10-21-02		SHA. NO. XX1065385
GCP / DJD / DAZ / BK		
D	INSTALL DETECTORS AND INTERCONNECT	
11-16-94		SHA. NO. B-158-601-165

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

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

TRAFFIC SIGNAL PLAN

MD 140 AND ENCHANTED HILLS ROAD /RITTERS LANE

DRAWN BY:	L. TOWNSON	F.A.P. NO.	N/A	TS NO. 169 G	SHEET NO.
CHECKED BY:	M. RUCKER	S.H.A. NO.			
SCALE:	1"=20'	COUNTY:	BALTIMORE	T.I.M.S. NO.	1 OF 1
DATE:	10-14-70	LOG MILE:	03014008.23		

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