MD 710 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

## EXISTING SIGNS

18,22,25 — R3-5L (30" X 36")
20,24,27,29 — R3-5R (30" X 36")
26,28

17 — ← Arundel Corp RD
19 — Ches. Center DR →
23 — Arundel Corp RD →
21 — ← Ches. Center DR

D-3(1) (DUAL FACED) (VARIABLE x 16")

## PROPOSED VIDEO DETECTION CAMERA

a,b,c,d — V

VIDEO DETECTION ZONE

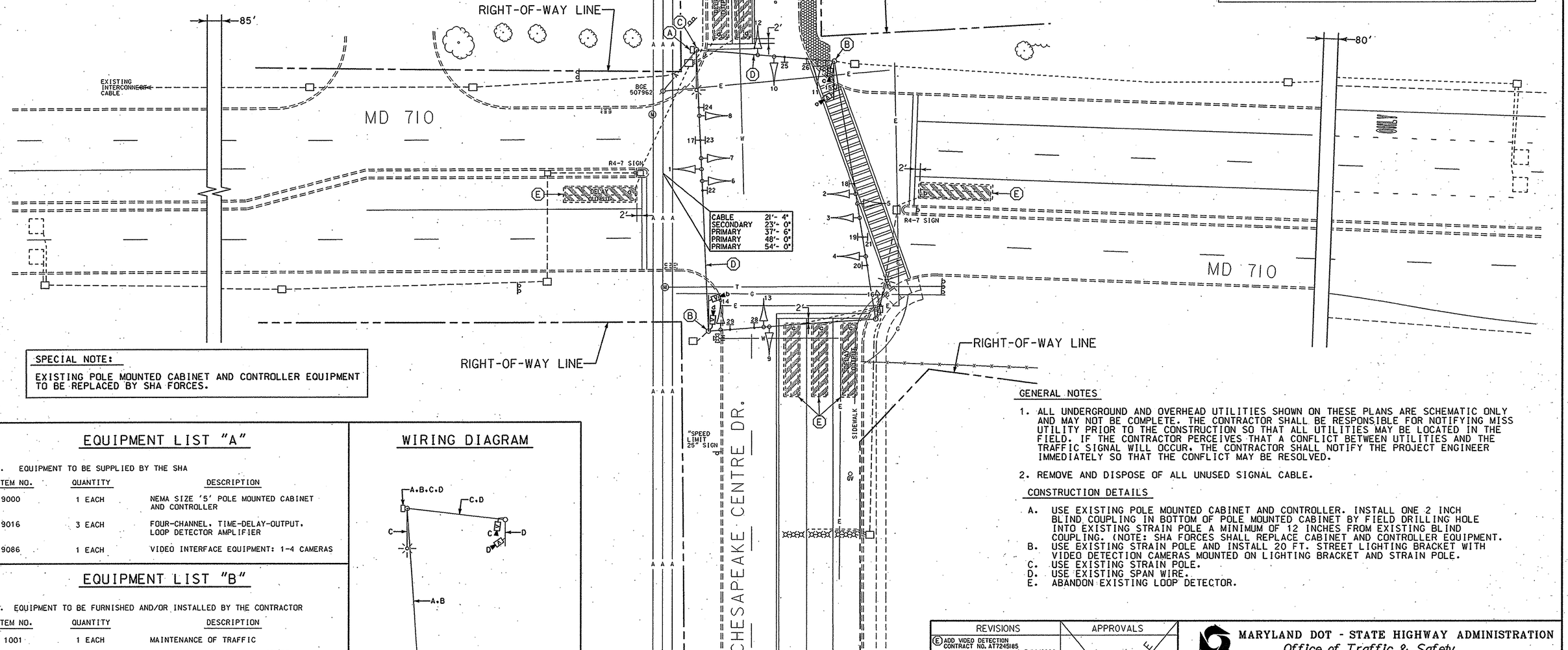
## EXISTING SIGNAL HEADS

1,2,5,6 — R Y G — 12"
3,4,7,8,11,14 — R Y G — 12"
9,12 — R Y G — 8"/12"
10,13 — R Y G — 12"
15,16 — 12"

## NEMA PHASING

Ø 1 Ø 2 Ø 3 Ø 4 Ø 4 ALT
Ø 5 Ø 6
FLASHING OPERATION

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




SPECIAL NOTE:

EXISTING POLE MOUNTED CABINET AND CONTROLLER EQUIPMENT TO BE REPLACED BY SHA FORCES.

## GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.

CONSTRUCTION DETAILS

A. USE EXISTING POLE MOUNTED CABINET AND CONTROLLER. INSTALL ONE 2 INCH BLIND COUPLING IN BOTTOM OF POLE MOUNTED CABINET BY FIELD DRILLING HOLE INTO EXISTING STRAIN POLE A MINIMUM OF 12 INCHES FROM EXISTING BLIND COUPLING. (NOTE: SHA FORCES SHALL REPLACE CABINET AND CONTROLLER EQUIPMENT.
B. USE EXISTING STRAIN POLE AND INSTALL 20 FT. STREET LIGHTING BRACKET WITH VIDEO DETECTION CAMERAS MOUNTED ON LIGHTING BRACKET AND STRAIN POLE.
C. USE EXISTING STRAIN POLE.
D. USE EXISTING SPAN WIRE.
E. ABANDON EXISTING LOOP DETECTOR.

## EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

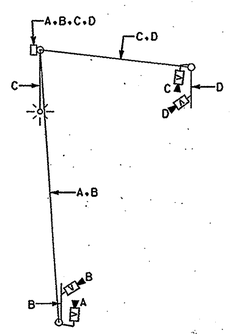
| ITEM NO. | QUANTITY | DESCRIPTION |
|---|---|---|
| 9000 | 1 EACH | NEMA SIZE '5' POLE MOUNTED CABINET AND CONTROLLER |
| 9016 | 3 EACH | FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER |
| 9086 | 1 EACH | VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS |

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

| ITEM NO. | QUANTITY | DESCRIPTION |
|---|---|---|
| 1001 | 1 EACH | MAINTENANCE OF TRAFFIC |
| 8001 | 2 EACH | CLAMP ON LIGHTING ARM - 20 FT. |
| 8004 | 1 EACH | REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT |
| 8026 | 4 EACH | VIDEO DETECTION CAMERA |
| 8027 | 4 EACH | CONTROL CABLE, 250 FT. VIDEO DETECTION CAMERA TO CONTROLLER |
| NEG. | 1 EACH | 2 IN. BLIND COUPLING |

## WIRING DIAGRAM




WIRING KEY

A, B, C, D — VIDEO CAMERA DETECTION LEAD-IN CABLE

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

| | |
|---|---|
| AERIAL CABLE | A |
| ELECTRICAL | E |
| TELEPHONE | T |
| GAS | G |
| SEWER | SS |
| STORM DRAIN | SD |
| WATER | W |
| CABLE TV | TV |

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| E ADD VIDEO DETECTION CONTRACT NO. AT7245185 | | | | | 3/14/2006 |
| SRB | NML | | | | |
| D SIGNAL MODIFICATION DUE TO RECONSTRUCTION ON MD 710 SHA NO. AA3115176 | | | | | 1/5/2000 |
| MB | WM | MAR | DAZ | BRK | |
| C REPLACE/ADD NORTHBOUND LOOP DETECTORS | | | | | 1/5/2000 |
| TMZ | DBD | MAR | | BRK | TH |
| B ADD ADVANCE DETECTION | | | | | 4/9/1999 |
| SRB | NML | | | | |

APPROVALS
TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION
ASST. TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY
ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
*Office of Traffic & Safety*
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 710 & CHESAPEAKE CTR. DR./ARUNDEL CORP. RD.

| | | | | | |
|---|---|---|---|---|---|
| DRAWN BY: | M.A.M. | F.A.P. NO. | | TS NO. | SHEET NO. |
| CHECKED BY: | M.A.M. | S.H.A. NO. | BW-415-802-502 | TS-3170E | |
| SCALE: | 1" = 20' | COUNTY: | ANNE ARUNDEL | T.I.M.S. NO. | |
| DATE: | 7-31-91 | LOG MILE: | 02071000.25 | H776 | 1 OF 2 |

m:\3155619\sg01md710.dgn