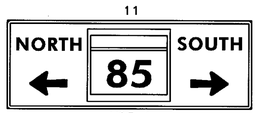
MD 85 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION

SIGNS

10

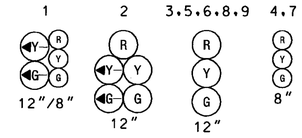
R10-12
(36" X 42")

11

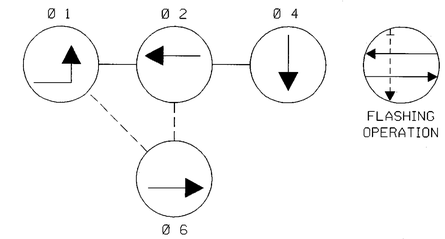


M95-1
(72" X 24")

SIGNAL HEADS



NEMA PHASING

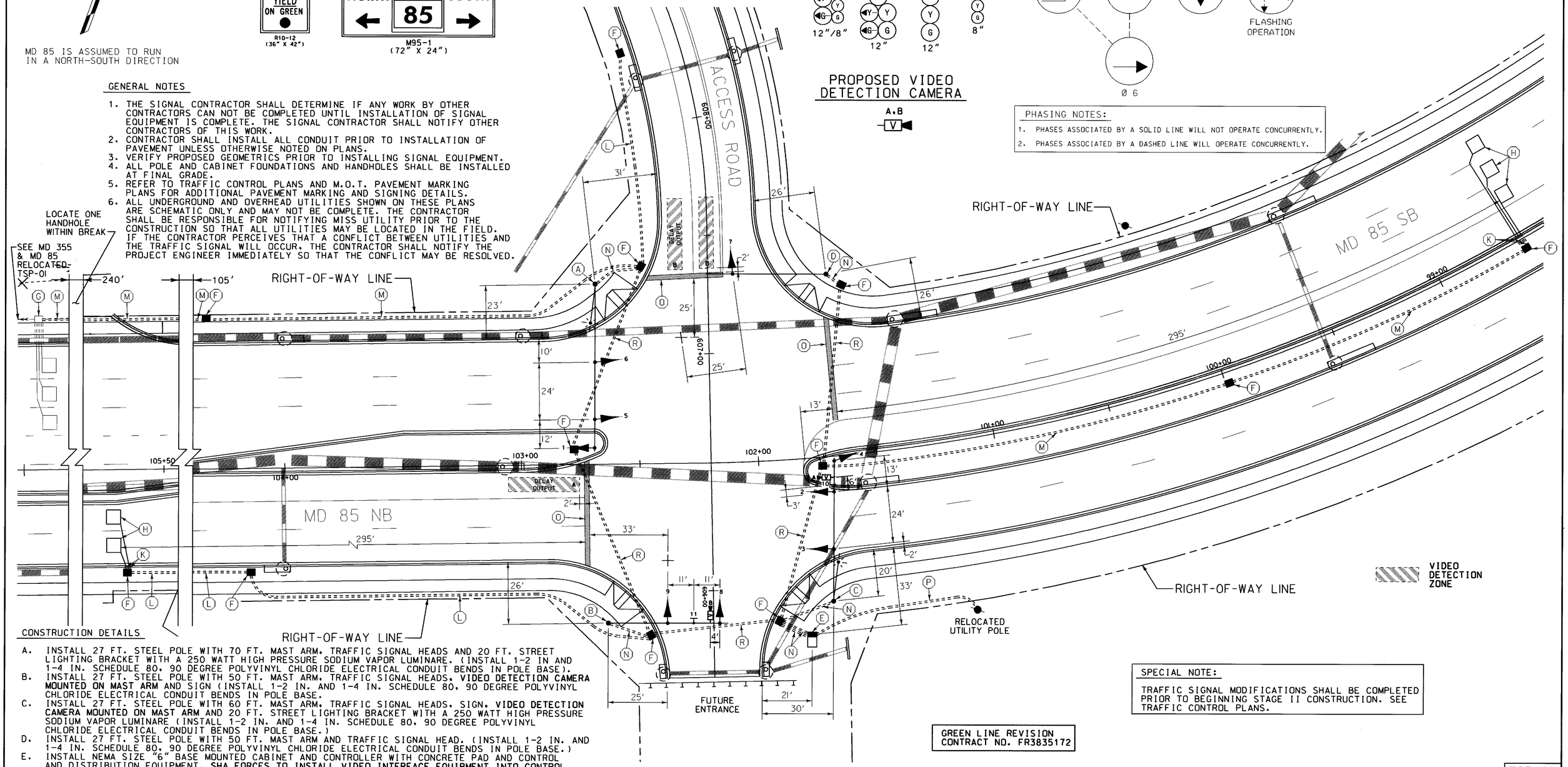


PHASING NOTES:

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

GENERAL NOTES

1. THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.
2. CONTRACTOR SHALL INSTALL ALL CONDUIT PRIOR TO INSTALLATION OF PAVEMENT UNLESS OTHERWISE NOTED ON PLANS.
3. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
4. ALL POLE AND CABINET FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
5. REFER TO TRAFFIC CONTROL PLANS AND M.O.T. PAVEMENT MARKING PLANS FOR ADDITIONAL PAVEMENT MARKING AND SIGNING DETAILS.
6. 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.



CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS AND 20 FT. STREET LIGHTING BRACKET WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINARE. (INSTALL 1-2 IN AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
B. INSTALL 27 FT. STEEL POLE WITH 50 FT. MAST ARM, TRAFFIC SIGNAL HEADS, **VIDEO DETECTION CAMERA MOUNTED ON MAST ARM** AND SIGN (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE.
C. INSTALL 27 FT. STEEL POLE WITH 60 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGN, **VIDEO DETECTION CAMERA MOUNTED ON MAST ARM** AND 20 FT. STREET LIGHTING BRACKET WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINARE (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE.)
D. INSTALL 27 FT. STEEL POLE WITH 50 FT. MAST ARM AND TRAFFIC SIGNAL HEAD. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE.)
E. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT. **SHA FORCES TO INSTALL VIDEO INTERFACE EQUIPMENT INTO CONTROL CABINET.** (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
F. INSTALL HANDHOLE.
G. USE EXISTING HANDHOLE. (SEE TSP-01)
~~H. INSTALL 6 FT. x 6 FT. (4 TURNS) LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.~~
~~J. INSTALL 6 FT. x 30 FT. (2-4-2 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.~~
K. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
L. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
M. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
N. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
O. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED PAVEMENT MARKINGS (STOP LINE).
P. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT AT UTILITY POLE FOR USE BY OTHERS.
R. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).

SPECIAL NOTE:

TRAFFIC SIGNAL MODIFICATIONS SHALL BE COMPLETED PRIOR TO BEGINNING STAGE II CONSTRUCTION. SEE TRAFFIC CONTROL PLANS.

GREEN LINE REVISION
CONTRACT NO. FR3835172

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

A	UPGRADED SIGNAL TO VIDEO DETECTION	08/04/04	NML

APPROVALS

ORIGINAL ON FILE

TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION
ASST. TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY

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

TRAFFIC SIGNALIZATION PLAN
MD 85 RELOCATED AND ACCESS ROAD

DRAWN BY:	S.BLOSS	F.A.P. NO.	SEE TITLE SHEET	TS NO.	TSP-07
CHECKED BY:	N.LEARY	S.H.A. NO.	FR866B23-824		
SCALE:	1" = 20'	COUNTY:	FREDERICK	T.I.M.S. NO.	SHEET NO.
DATE:	3/20/01	LOG MILE:		E089	148 OF 187

M:\31293\Miscellaneous\md355&md85Signals\tsp07ph2a_gl.plt