US 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

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

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. INSTALL CONDUIT AND LOOP DETECTORS PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
3. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
4. ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
5. 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.

PROPOSED SIGNS

18,20 — R3-5L (30" X 36")

11,12 — Rosewick RD

15,16 — Rosewick RD — D-3(1) (DUAL FACED) (VARIABLE x 16")

19,23 — Crain HWY — D-3(1) (DUAL FACED) (VARIABLE x 16")

17 SOUTH 301 — 21 NORTH 301 — 22 NORTH 301 — 24 SOUTH 301 — ASSOCIATED SHIELD ASSEMBLY (30" x 5ft)

9,10,13,14 — NEW — Rosewick Rd. — W3-3 (48" X 48") W/"NEW" PANEL (30" X 30") AND D-3(2) (BLACK ON YELLOW) (96" x 16")

PROPOSED SIGNAL HEADS

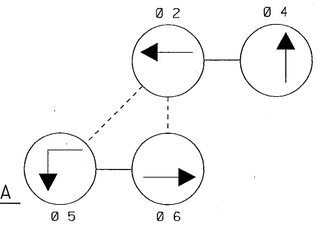
1,2,5-8: R, Y, G — 12" 12"

3,4: R, Y, G — 12" 12"

PROPOSED VIDEO DETECTION CAMERA

A,B — V

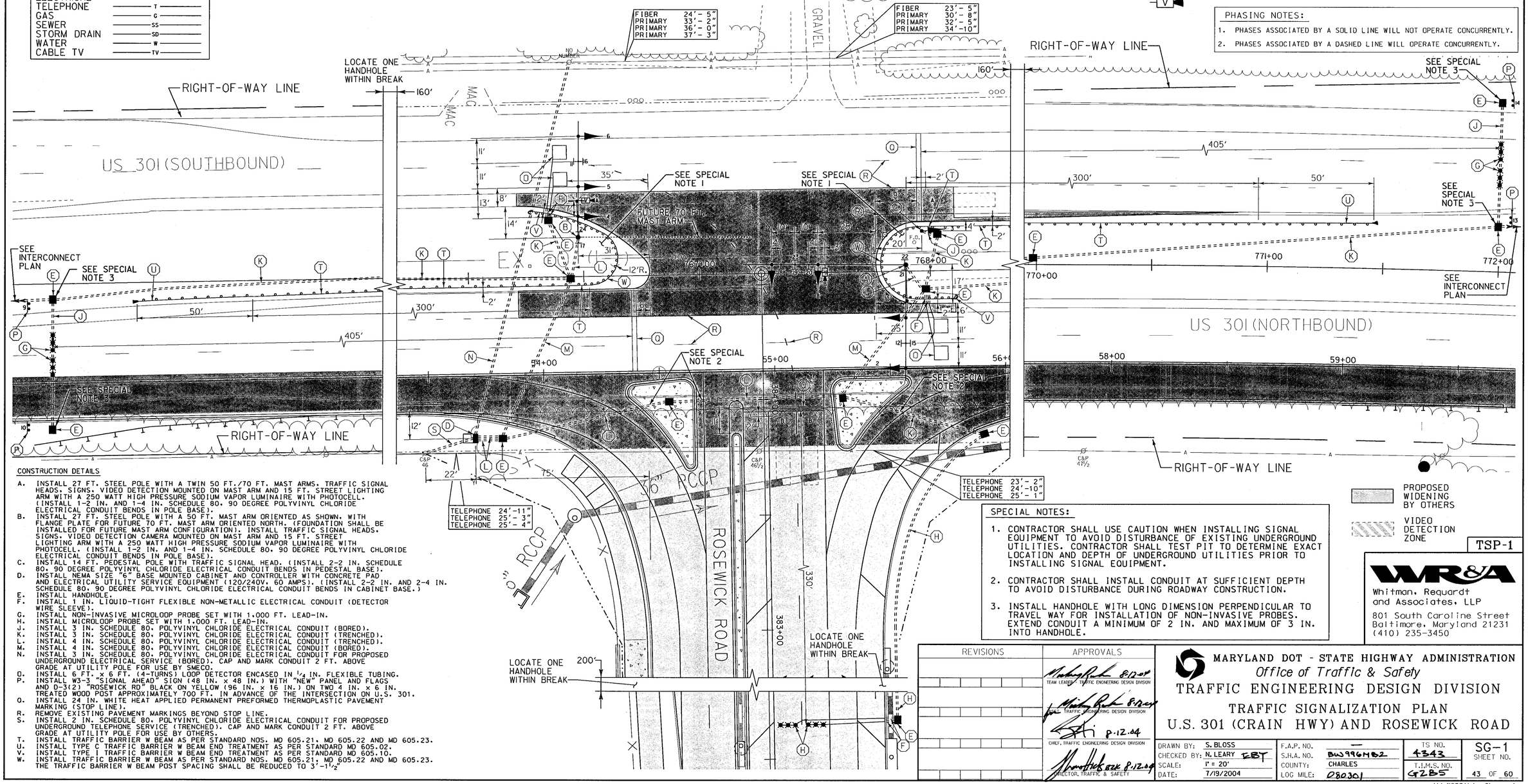
NEMA PHASING



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.



PROPOSED WIDENING BY OTHERS

VIDEO DETECTION ZONE

CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH A TWIN 50 FT./70 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION MOUNTED ON MAST ARM AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE WITH PHOTOCELL. (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 A 50 FT. MAST ARM ORIENTED AS SHOWN. WITH FLANGE PLATE FOR FUTURE 70 FT. MAST ARM ORIENTED NORTH. (FOUNDATION SHALL BE INSTALLED FOR FUTURE MAST ARM CONFIGURATION). INSTALL TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE WITH PHOTOCELL. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
C. INSTALL 14 FT. PEDESTAL POLE WITH TRAFFIC SIGNAL HEAD. (INSTALL 2-2 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
D. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND ELECTRICAL UTILITY SERVICE EQUIPMENT (120/240V, 60 AMPS). (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
E. INSTALL HANDHOLE.
F. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
G. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1.000 FT. LEAD-IN.
H. INSTALL MICROLOOP PROBE SET WITH 1.000 FT. LEAD-IN.
J. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
K. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
L. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
M. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
N. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE (BORED). CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY SMECO.
O. INSTALL 6 FT. x 6 FT. (4-TURNS) LOOP DETECTOR ENCASED IN ½ IN. FLEXIBLE TUBING.
P. INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. x 48 IN.) WITH "NEW" PANEL AND FLAGS AND D-3(2) "ROSEWICK RD" BLACK ON YELLOW (96 IN. x 16 IN.) ON TWO 4 IN. x 6 IN. TREATED WOOD POST APPROXIMATELY 700 FT. IN ADVANCE OF THE INTERSECTION ON U.S. 301.
Q. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
R. REMOVE EXISTING PAVEMENT MARKINGS BEYOND STOP LINE.
S. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND TELEPHONE SERVICE (TRENCHED). CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
T. INSTALL TRAFFIC BARRIER W BEAM AS PER STANDARD NOS. MD 605.21, MD 605.22 AND MD 605.23.
U. INSTALL TYPE C TRAFFIC BARRIER W BEAM END TREATMENT AS PER STANDARD MD 605.02.
V. INSTALL TYPE I TRAFFIC BARRIER W BEAM END TREATMENT AS PER STANDARD MD 605.10.
W. INSTALL TRAFFIC BARRIER W BEAM AS PER STANDARD NOS. MD 605.21, MD 605.22 AND MD 605.23. THE TRAFFIC BARRIER W BEAM POST SPACING SHALL BE REDUCED TO 3'-1½"

SPECIAL NOTES:

1. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.
2. CONTRACTOR SHALL INSTALL CONDUIT AT SUFFICIENT DEPTH TO AVOID DISTURBANCE DURING ROADWAY CONSTRUCTION.
3. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.

TSP-1

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REVISIONS

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION — 8.12.04
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — 8.12.04
DIRECTOR, TRAFFIC & SAFETY — 8.12.04

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNALIZATION PLAN
U.S. 301 (CRAIN HWY) AND ROSEWICK ROAD

DRAWN BY: S. BLOSS	F.A.P. NO. —	TS NO. 4343	SG-1
CHECKED BY: N. LEARY EBT	S.H.A. NO. BUS996M82		SHEET NO.
SCALE: 1" = 20'	COUNTY: CHARLES	T.I.M.S. NO. G2B5	43 OF 60
DATE: 7/19/2004	LOG MILE: 080301		

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