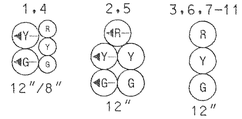
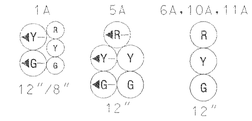
MD 97 (MALCOLM ROAD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

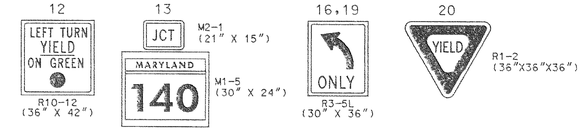
PROPOSED SIGNALS



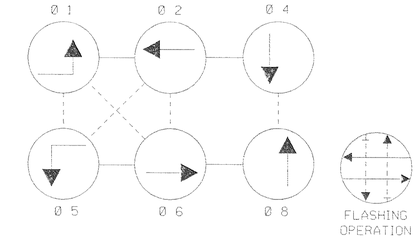
EXISTING SIGNALS TO BE REMOVED



PROPOSED SIGNS



NEMA PHASING

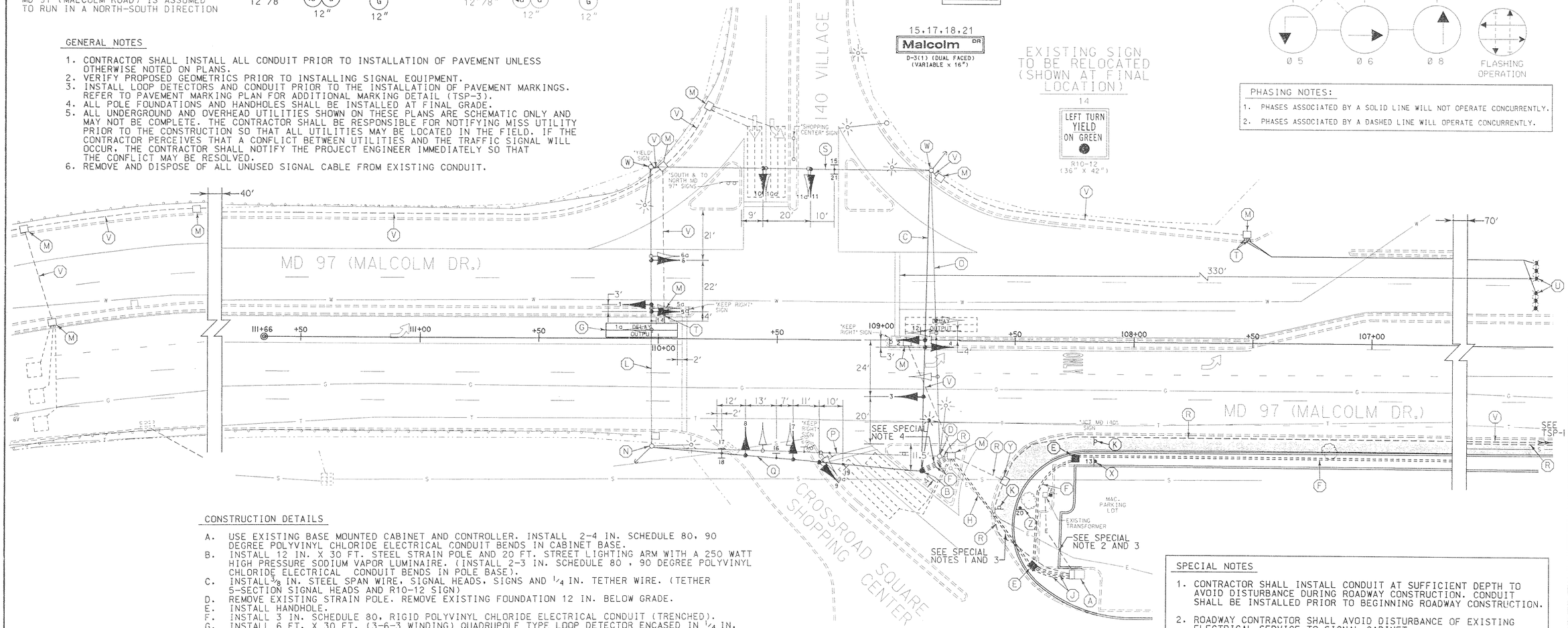


PHASING NOTES:

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

GENERAL NOTES

1. CONTRACTOR SHALL INSTALL ALL CONDUIT PRIOR TO INSTALLATION OF PAVEMENT UNLESS OTHERWISE NOTED ON PLANS.
2. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
3. INSTALL LOOP DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO PAVEMENT MARKING PLAN FOR ADDITIONAL MARKING DETAIL (TSP-3).
4. ALL POLE FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
5. 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.
6. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE FROM EXISTING CONDUIT.



CONSTRUCTION DETAILS

A. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.
B. INSTALL 12 IN. X 30 FT. STEEL STRAIN POLE AND 20 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 2-3 IN. SCHEDULE 80 , 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
C. INSTALL 3/8 IN. STEEL SPAN WIRE, SIGNAL HEADS, SIGNS AND 1/4 IN. TETHER WIRE. (TETHER 5-SECTION SIGNAL HEADS AND R10-12 SIGN)
D. REMOVE EXISTING STRAIN POLE. REMOVE EXISTING FOUNDATION 12 IN. BELOW GRADE.
E. INSTALL HANDHOLE.
F. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
G. INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
H. INSTALL 2 - 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUITS IN COMMON SLOT.
J. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUITS (TRENCHED).
K. REMOVE EXISTING SIGN AND SUPPORT.
L. REMOVE EXISTING SIGNAL HEADS. INSTALL NEW SIGNAL HEADS AND RELOCATE EXISTING SIGN ON SPAN WIRE AS NOTED (TETHER 5-SECTION SIGNAL HEADS AND R10-12 SIGN).
M. USE EXISTING HANDHOLE.
N. USE EXISTING STRAIN POLE, INSTALL BACK GUY AND DISCONNECT AND PULL BACK EXISTING INTERCONNECT CABLE FROM SOUTH AND RE-FEED ON NEW SPAN WIRE. (BACK GUY SHALL BE INSTALLED PRIOR TO INSTALLATION OF NEW SPAN WIRE AND REMOVED AFTER EXISTING SPAN WIRE IS REMOVED).
O. REMOVE EXISTING SPAN WIRE, SIGNAL HEADS, SIGN AND TETHER WIRE.
P. REMOVE EXISTING SPAN WIRE, SIGNS AND SIGNAL HEADS.
Q. INSTALL 3/8 IN. STEEL SPAN WIRE, SIGNAL HEADS AND SIGNS.
R. ABANDON EXISTING CONDUIT.
S. REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW SIGNAL HEADS AND SIGN ON SPAN WIRE AS NOTED.
T. INSTALL 1 IN. LIQUID TIGHT NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
U. INSTALL MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN.
V. USE EXISTING CONDUIT.
W. USE EXISTING STRAIN POLE AND INSTALL BACK GUY. (BACK GUY SHALL BE INSTALLED PRIOR TO INSTALLATION OF NEW SPAN WIRE AND REMOVED AFTER EXISTING SPAN WIRE IS REMOVED).
X. INSTALL M2-1 SIGN (21 IN. X 15 IN.) AND M1-5 SIGN (30 IN. X 24 IN.) ON ONE 4 IN. X 4 IN. TREATED WOOD POST.
Y. REMOVE EXISTING HANDHOLE.
Z. INSTALL R1-2 SIGN (36 IN. X 36 IN. X 36 IN.) ON ONE 4 IN. X 4 IN. TREATED WOOD POST.

SPECIAL NOTES

1. CONTRACTOR SHALL INSTALL CONDUIT AT SUFFICIENT DEPTH TO AVOID DISTURBANCE DURING ROADWAY CONSTRUCTION. CONDUIT SHALL BE INSTALLED PRIOR TO BEGINNING ROADWAY CONSTRUCTION.
2. ROADWAY CONTRACTOR SHALL AVOID DISTURBANCE OF EXISTING ELECTRICAL SERVICE TO SIGNAL CABINET.
3. ROADWAY CONTRACTOR SHALL AVOID DISTURBANCE OF EXISTING ELECTRICAL CABLE TO STREET LIGHT.
4. CONTRACTOR SHALL AVOID DISTURBANCE OF EXISTING LOOP DETECTOR LEAD-IN CABLES WHEN INSTALLING CONDUIT.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

WR&A
Whitman, Requardt and Associates, LLP
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

REVISIONS	APPROVALS
B MODIFIED FOR NEW GEOMETRICS — TIMS, NOV. 719 — NML — 2/00	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
A REPLACE FAILED DETECTION — RCS — 11/90	ASST. DISTRICT ENGINEER, TRAFFIC
	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 97 (MALCOLM DR.) AND CROSSROAD SQUARE

TSP-2

DRAWN BY: W. GUCKERT	F.A.P. NO. BW-410-801-712	TS NO. TS-1642B	SHEET NO. 19 OF 24
CHECKED BY:	S.H.A. NO.		
SCALE: 1" = 20'	COUNTY: CARROLL	T.I.M.S. NO. 0719	
DATE: 1-17-78	LOG MILE:		

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