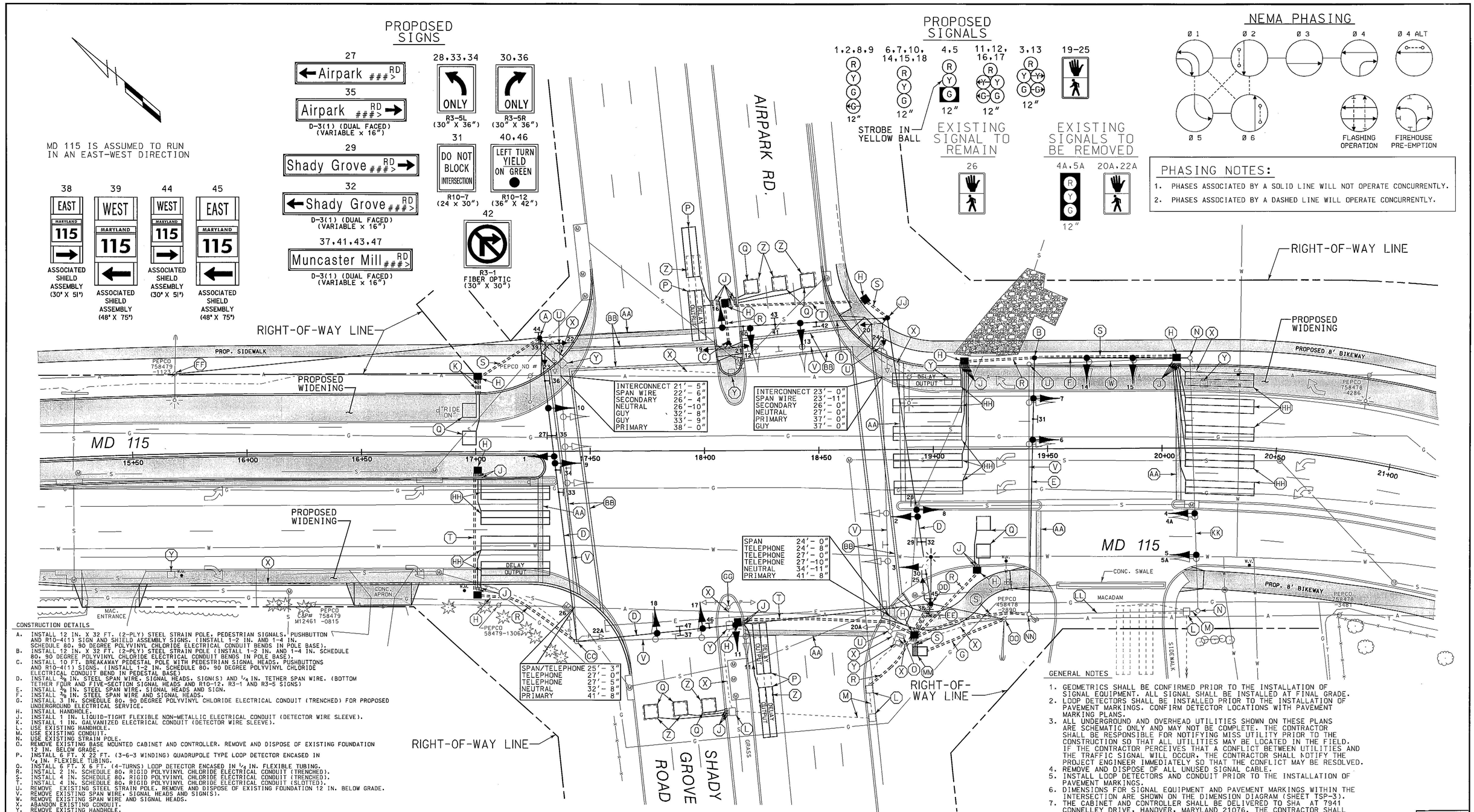

CONSTRUCTION DETAILS

A. INSTALL 12 IN. X 32 FT. (2-PLY) STEEL STRAIN POLE, PEDESTRIAN SIGNALS, PUSHBUTTON AND R10-4(1) SIGN AND SHIELD ASSEMBLY SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
B. INSTALL 12 IN. X 32 FT. (2-PLY) STEEL STRAIN POLE (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
C. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS AND R10-4(1) SIGNS. (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN PEDESTAL BASE)
D. INSTALL 3/8 IN. STEEL SPAN WIRE, SIGNAL HEADS, SIGN(S) AND 1/4 IN. TETHER SPAN WIRE. (BOTTOM TETHER FOUR AND FIVE-SECTION SIGNAL HEADS AND R10-12, R3-1 AND R3-5 SIGNS)
E. INSTALL 3/8 IN. STEEL SPAN WIRE, SIGNAL HEADS AND SIGN.
F. INSTALL 3/8 IN. STEEL SPAN WIRE AND SIGNAL HEADS.
G. INSTALL 3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
H. INSTALL HANDHOLE.
J. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
K. INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
L. USE EXISTING HANDHOLE.
M. USE EXISTING CONDUIT.
N. USE EXISTING STRAIN POLE.
O. REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER. REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE.
P. INSTALL 6 FT. X 22 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
Q. INSTALL 6 FT. X 6 FT. (4-TURNS) LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
R. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
S. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
T. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
U. REMOVE EXISTING STEEL STRAIN POLE. REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE.
V. REMOVE EXISTING SPAN WIRE, SIGNAL HEADS AND SIGN(S).
W. REMOVE EXISTING SPAN WIRE AND SIGNAL HEADS.
X. ABANDON EXISTING CONDUIT.
Y. REMOVE EXISTING HANDHOLE.
Z. ABANDON EXISTING LOOP DETECTOR.
AA. INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
BB. INSTALL 12 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK).
CC. USE EXISTING STEEL STRAIN POLE AND INSTALL 2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN POLE BASE.
DD. INSTALL 12 IN. X 32 FT. (2-PLY) STEEL STRAIN POLE, PEDESTRIAN SIGNAL, SHIELD ASSEMBLY SIGNS 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)
EE. INSTALL 3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
FF. DISCONNECT AND PULL BACK EXISTING INTERCONNECT CABLE FROM WEST TO PEPCO POLE 758479-1123 AND RE-FEED TO NEW STEEL STRAIN POLE IN NORTHWEST CORNER. (SEE WIRING DIAGRAM)
GG. REMOVE EXISTING PEDESTAL POLE AND PEDESTRIAN SIGNAL HEADS. REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE.
HH. INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
JJ. INSTALL 12 IN. X 32 FT. (2-PLY) STEEL STRAIN POLE, PEDESTRIAN SIGNALS AND PUSHBUTTON AND R10-4(1) SIGN. (INSTALL 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
KK. REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW SIGNAL HEADS ON SPAN WIRE AS NOTED.
LL. USE EXISTING SPAN WIRE.
MM. INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINLY CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE)
NN. USE EXISTING STRAIN POLE AND INSTALL 4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN POLE BASE. DISCONNECT AND PULL BACK FIREHOUSE PUSHBUTTON ELECTRICAL CABLE TO STRAIN POLE AND RE-FEED IN NEW CONDUIT TO CONTROLLER (SEE WIRING DIAGRAM).
OO. DISCONNECT AND PULL BACK EXISTING INTERCONNECT CABLE FROM EAST TO PEPCO POLE 458478-2890 AND RE-FEED TO NEW STEEL STRAIN POLE IN SOUTHEAST CORNER. (SEE WIRING DIAGRAM)

GENERAL NOTES

1. GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL SIGNAL SHALL BE INSTALLED AT FINAL GRADE.
2. LOOP DETECTORS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. CONFIRM DETECTOR LOCATIONS WITH PAVEMENT MARKING PLANS.
3. 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.
4. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
5. INSTALL LOOP DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
6. DIMENSIONS FOR SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN THE INTERSECTION ARE SHOWN ON THE DIMENSION DIAGRAM (SHEET TSP-3).
7. THE CABINET AND CONTROLLER SHALL BE DELIVERED TO SHA AT 7941 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY SHA AT (410) 787-2652 AT LEAST 3 DAYS IN ADVANCE OF DELIVERY.

TSP-1

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

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

REVISIONS			
A	MODIFY TRAFFIC SIGNAL DUE TO GEOMETRIC IMPROVEMENTS	NML	11-99

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

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 115 & SHADY GROVE RD/AIRPARK RD

DRAWN BY: T.E.L.	F.A.P. NO.	TS NO. 4789 A	SHEET NO. 45 OF 63
CHECKED BY: A.S.R.	S.H.A. NO.		
SCALE: 1"= 20'	COUNTY: MONTGOMERY	T.I.M.S. NO.	
DATE: 11/99	LOG MILE:		

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