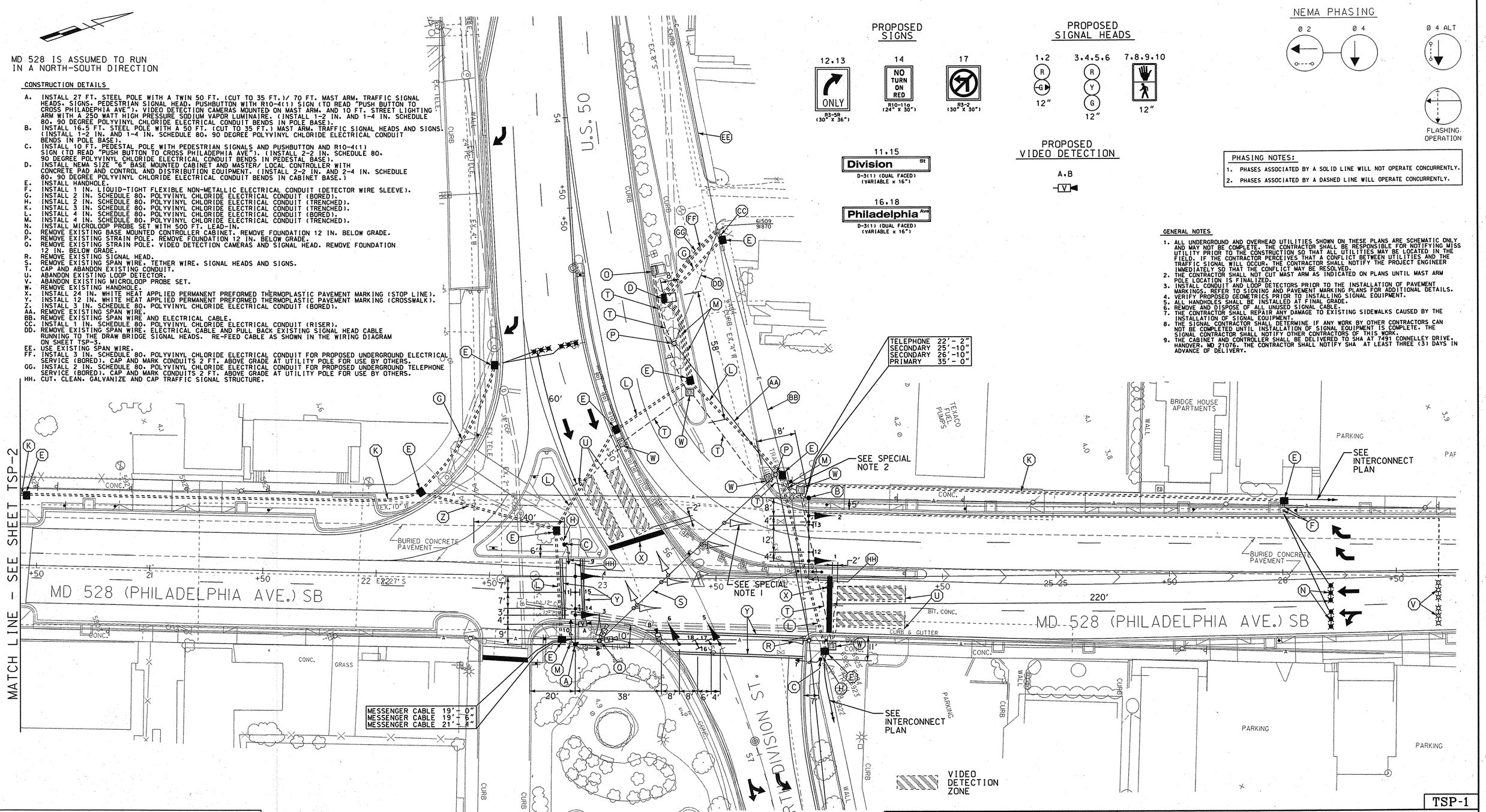
MD 528 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION

CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH A TWIN 50 FT. (CUT TO 35 FT.)/ 70 FT. MAST ARM. TRAFFIC SIGNAL HEADS. SIGNS. PEDESTRIAN SIGNAL HEAD. PUSHBUTTON WITH R10-4(1) SIGN (TO READ "PUSH BUTTON TO CROSS PHILADEPHIA AVE"). VIDEO DETECTION CAMERAS MOUNTED ON MAST ARM. AND 10 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
B. INSTALL 16.5 FT. STEEL POLE WITH A 50 FT. (CUT TO 35 FT.) MAST ARM. TRAFFIC SIGNAL HEADS AND SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
C. INSTALL 10 FT. PEDESTAL POLE WITH PEDESTRIAN SIGNALS AND PUSHBUTTON AND R10-4(1) SIGN (TO READ "PUSH BUTTON TO CROSS PHILADEPHIA AVE"). (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 MASTER/ LOCAL CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT. (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 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
H. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
K. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
L. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
M. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
N. INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN.
O. REMOVE EXISTING BASE MOUNTED CONTROLLER CABINET. REMOVE FOUNDATION 12 IN. BELOW GRADE.
P. REMOVE EXISTING STRAIN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE.
Q. REMOVE EXISTING STRAIN POLE. VIDEO DETECTION CAMERAS AND SIGNAL HEAD. REMOVE FOUNDATION 12 IN. BELOW GRADE.
R. REMOVE EXISTING SIGNAL HEAD.
S. REMOVE EXISTING SPAN WIRE. TETHER WIRE. SIGNAL HEADS AND SIGNS.
T. CAP AND ABANDON EXISTING CONDUIT.
U. ABANDON EXISTING LOOP DETECTOR.
V. ABANDON EXISTING MICROLOOP PROBE SET.
W. REMOVE EXISTING HANDHOLE.
X. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
Y. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).
Z. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
AA. REMOVE EXISTING SPAN WIRE.
BB. REMOVE EXISTING SPAN WIRE AND ELECTRICAL CABLE.
CC. INSTALL 1 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (RISER).
DD. REMOVE EXISTING SPAN WIRE. ELECTRICAL CABLE AND PULL BACK EXISTING SIGNAL HEAD CABLE RUNNING TO THE DRAW BRIDGE SIGNAL HEADS. RE-FEED CABLE AS SHOWN IN THE WIRING DIAGRAM ON SHEET TSP-3.
EE. USE EXISTING SPAN WIRE.
FF. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE (BORED). CAP AND MARK CONDUITS 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
GG. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND TELEPHONE SERVICE (BORED). CAP AND MARK CONDUITS 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
HH. CUT. CLEAN. GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.



PROPOSED SIGNS

PROPOSED SIGNAL HEADS

PROPOSED VIDEO DETECTION

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. 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. THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
3. INSTALL CONDUIT AND LOOP DETECTORS PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
4. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
5. ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
6. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
7. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
8. 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.
9. THE CABINET AND CONTROLLER SHALL BE DELIVERED TO SHA AT 7491 CONNELLEY DRIVE. HANOVER. MD 21076. THE CONTRACTOR SHALL NOTIFY SHA AT LEAST THREE (3) DAYS IN ADVANCE OF DELIVERY.

TSP-1

SPECIAL NOTES:

1. THE CONTRACTOR SHALL NOT BLOCK VIEW OF EXISTING SIGNAL INDICATIONS DURING INSTALLATION OF MAST ARM. IF NEW MAST ARM CANNOT BE INSTALLED DUE TO CONFLICT WITH EXISTING SIGNAL INDICATIONS OR SPAN WIRES. A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
2. 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.
3. CONTRACTOR SHALL INSTALL CONDUIT AT SUFFICIENT DEPTH TO AVOID DISTURBANCE DURING ROADWAY CONSTRUCTION. CONDUIT SHALL BE INSTALLED PRIOR TO BEGINNING ROADWAY CONSTRUCTION.

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

REV. "A"

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

REVISIONS	APPROVALS
(F) REDRAWN AND ASBUILT WO-594-501-185 4/05/1983	TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION
(G) REPLACE FAILED LOOPS SHA NO: AW 575501-095 4/1994	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
(H) Replace Signal Heads 3-4 with 2 Section Signals TIMS # D357 4/1999	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
(I) RECONSTRUCT TRAFFIC SIGNAL 3/2002	DIRECTOR, TRAFFIC & SAFETY
BAM NL WMR	

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 528 PHILADELPHIA AVE. and NORTH DIVISION ST.

DRAWN BY:		F.A.P. NO.	SEE TITLE SHEET	TS NO. 140 I	SHEET NO.
CHECKED BY:		S.H.A. NO.	W0502513I		
SCALE:	1" = 20'	COUNTY:	WORCESTER	T.I.M.S. NO. E142	2 OF 19
DATE:	10/7/2002	LOG MILE:	23005014.33		

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