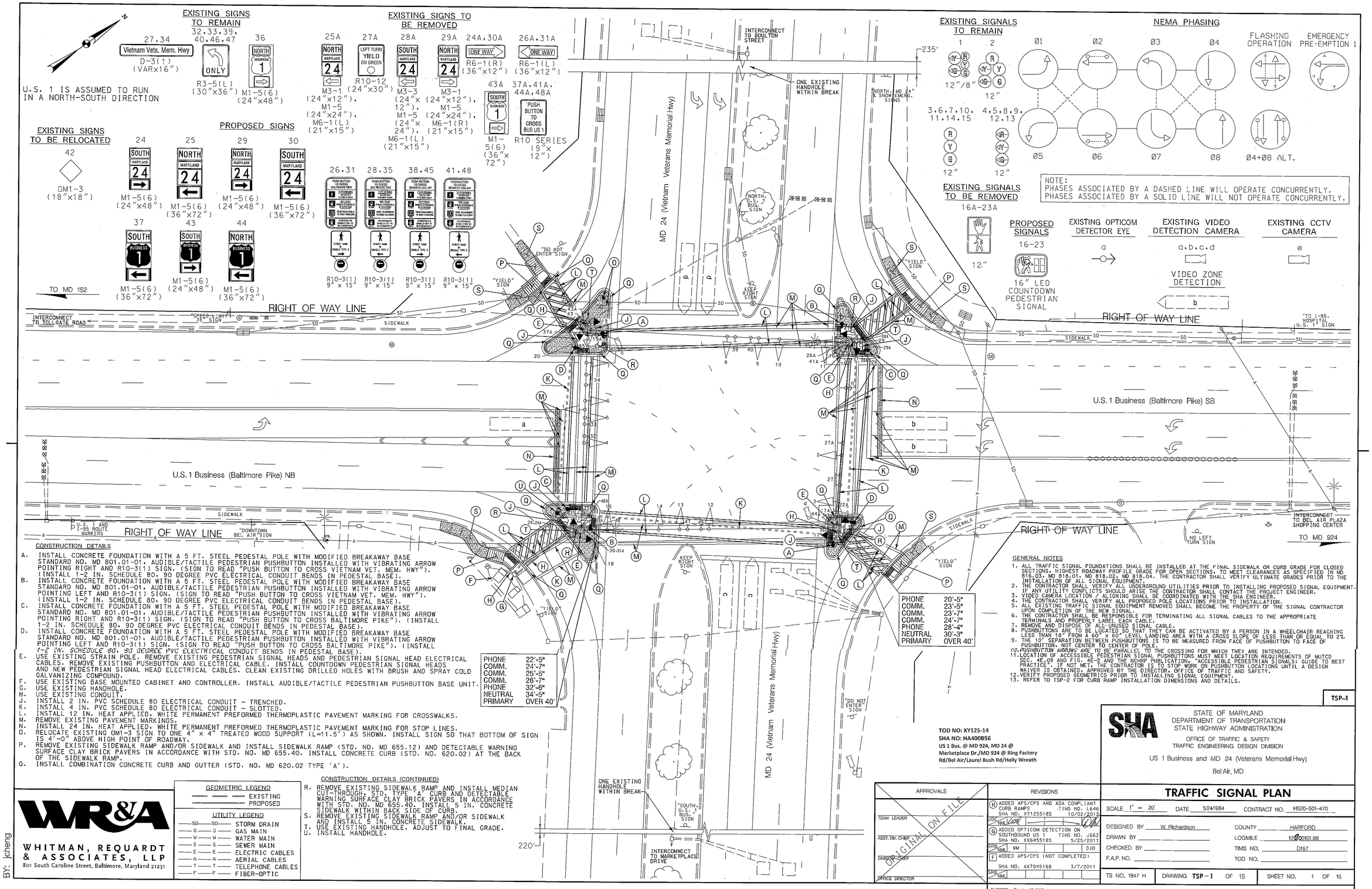

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS VIETNAM VET. MEM. HWY"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

B. INSTALL CONCRETE FOUNDATION WITH A 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS VIETNAM VET. MEM. HWY"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

C. INSTALL CONCRETE FOUNDATION WITH A 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS BALTIMORE PIKE"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

D. INSTALL CONCRETE FOUNDATION WITH A 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS BALTIMORE PIKE"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

E. USE EXISTING STRAIN POLE. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN SIGNAL HEAD ELECTRICAL CABLES. REMOVE EXISTING PUSHBUTTON AND ELECTRICAL CABLE. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEADS AND NEW PEDESTRIAN SIGNAL HEAD ELECTRICAL CABLES. CLEAN EXISTING DRILLED HOLES WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND.

F. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT.

G. USE EXISTING HANDHOLE.

H. USE EXISTING CONDUIT.

J. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.

L. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.

M. REMOVE EXISTING PAVEMENT MARKINGS.

N. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINES.

O. RELOCATE EXISTING OM1-3 SIGN TO ONE 4" x 4" TREATED WOOD SUPPORT (L=11.5') AS SHOWN. INSTALL SIGN SO THAT BOTTOM OF SIGN IS 4'-0" ABOVE HIGH POINT OF ROADWAY.

P. REMOVE EXISTING SIDEWALK RAMP AND/OR SIDEWALK AND INSTALL SIDEWALK RAMP (STD. NO. MD 655.12) AND DETECTABLE WARNING SURFACE CLAY BRICK PAVERS IN ACCORDANCE WITH STD. NO. MD 655.40. INSTALL CONCRETE CURB (STD. NO. 620.02) AT THE BACK OF THE SIDEWALK RAMP.

Q. INSTALL COMBINATION CONCRETE CURB AND GUTTER (STD. NO. MD 620.02 TYPE 'A').

CONSTRUCTION DETAILS (CONTINUED)

R. REMOVE EXISTING SIDEWALK RAMP AND INSTALL MEDIAN CUT-THROUGH, STD. TYPE "A" CURB AND DETECTABLE WARNING SURFACE CLAY BRICK PAVERS IN ACCORDANCE WITH STD. NO. MD 655.40. INSTALL 5 IN. CONCRETE SIDEWALK WITHIN BACK SIDE OF CURB.

S. REMOVE EXISTING SIDEWALK RAMP AND/OR SIDEWALK AND INSTALL 5 IN. CONCRETE SIDEWALK.

T. USE EXISTING HANDHOLE. ADJUST TO FINAL GRADE.

U. INSTALL HANDHOLE.

GENERAL NOTES

1. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
3. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
4. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
8. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" x 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
9. THE 10" SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
10. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
11. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
12. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
13. REFER TO TSP-2 FOR CURB RAMP INSTALLATION DIMENSIONS AND DETAILS.

TSP-1

TOD NO: XY125-14
SHA NO: HA400B56
US 1 Bus. @ MD 924, MD 24 @ Marketplace Dr./MD 924 @ Ring Factory Rd/Bel Air/Laurel Bush Rd/Holly Wreath

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
F — FIBER-OPTIC

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

BY: jcheng

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS			
H	ADDED APS/CPS AND ADA COMPLIANT CURB RAMPS SHA NO. XY1255185	TIMS NO. L646 10/02/2012	
JDC			
G	ADDED OPTICOM DETECTION ON SOUTHBOUND US 1 SHA NO. XX6455185	TIMS NO. J662 5/25/2011	
SRB	WM	DJD	
F	ADDED APS/CPS (NOT COMPLETED) SHA NO. AX7045168	3/7/2011	
SRB	NML		

PLOTTED: October 02, 2012
FILE: N:\31669-238\CADD\pSG-P001_MD24_US1.dgn

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 1 Business and MD 24 (Veterans Memorial Hwy)
Bel Air, MD

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 5/24/1984 CONTRACT NO. H520-501-470

DESIGNED BY W. Richardson
DRAWN BY
CHECKED BY
F.A.P. NO.

COUNTY HARFORD
LOGMILE 12.20/0101.98
TIMS NO. D157
TOD NO.

TS NO. 1947 H | DRAWING TSP-1 OF 15 | SHEET NO. 1 OF 15