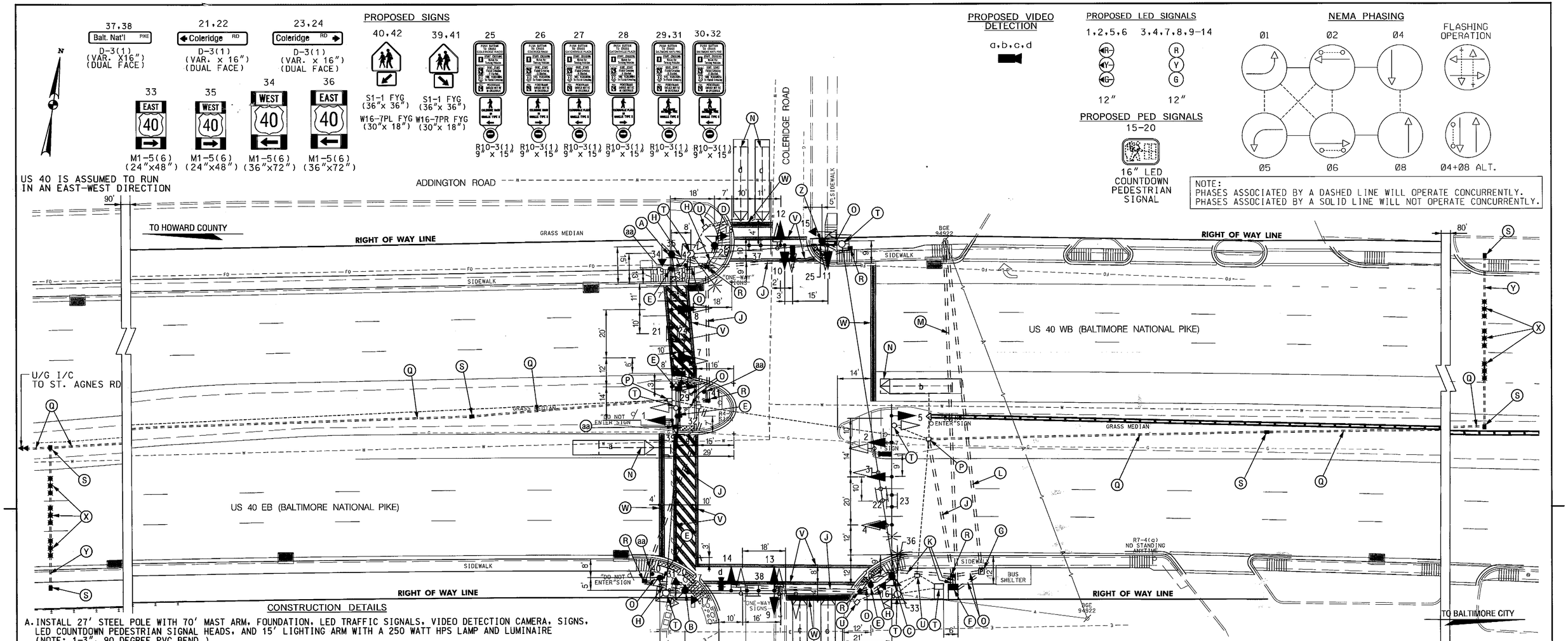

CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH 70' MAST ARM, FOUNDATION, LED TRAFFIC SIGNALS, VIDEO DETECTION CAMERA, SIGNS, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, AND 15' LIGHTING ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE (NOTE: 1-3", 90 DEGREE PVC BEND.)
B. INSTALL 21' STEEL POLE WITH A 50' MAST ARM, FOUNDATION, LED TRAFFIC SIGNALS, VIDEO DETECTION CAMERA, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS AND AUDIBLE/TACTILE PUSHBUTTON WITH R10-3(1) SIGN (NOTE: 1-3", 90 DEGREE PVC BEND.)
C. INSTALL 27' STEEL POLE WITH A 70' MAST ARM, FOUNDATION, LED TRAFFIC SIGNALS, VIDEO DETECTION CAMERA, SIGNS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND 15' LIGHTING ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE (NOTE: 1-3", 90 DEGREE PVC BEND.)
D. INSTALL 21' STEEL POLE WITH A 50' MAST ARM, FOUNDATION, LED TRAFFIC SIGNALS, VIDEO DETECTION CAMERA, SIGN, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD AND AUDIBLE/TACTILE PUSHBUTTON WITH R10-3(1) SIGN (NOTE: 1-3", 90 DEGREE PVC BEND.)
E. INSTALL CONCRETE FOUNDATION WITH 10' STEEL PEDESTAL POLE (CUT TO 5 FT.) WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01 AND AUDIBLE/TACTILE PUSHBUTTON WITH R10-3 (1) SIGN (NOTE: 1-2", 90 DEGREE PVC BEND.)
F. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2" AND 2-4" 90 DEGREE PVC BENDS.)
G. INSTALL 100 AMP METERED SERVICE PEDESTAL (NOTE: 1-4" AND 3-2", 90 DEGREE PVC BENDS.)
H. INSTALL 3" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED.
J. INSTALL 4" PVC ELECTRICAL CONDUIT (SCHED. 80) - BORED.
K. INSTALL 4" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED.
L. INSTALL 4" PVC ELECTRICAL CONDUIT (SCHED. 80) - BORED, FOR PROPOSED UNDERGROUND POWER. CAP AND MARK CONDUIT AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
M. INSTALL 2" PVC ELECTRICAL CONDUIT (SCHED. 80) - BORED, FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
N. ABANDON EXISTING LOOP DETECTOR.
O. INSTALL 2" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED.
P. USE EXISTING HANDHOLE.
Q. 3" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED. INSTALLED UNDER INTERCONNECT PLAN.
R. INSTALL HANDHOLE.
S. HANDHOLE INSTALLED UNDER INTERCONNECT PLAN.
T. REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT. REMOVE FOUNDATIONS 12" BELOW GRADE AND BACKFILL.
U. REMOVE EXISTING HANDHOLE FRAME AND COVER 12 IN. BELOW GRADE AND BACKFILL.
V. INSTALL 12 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
W. INSTALL 24 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
X. NON-INVASIVE MICRO LOOP PROBE SET INSTALLED UNDER INTERCONNECT PLAN.
Y. 3" PVC ELECTRICAL CONDUIT (SCHED. 80) - BORED. INSTALLED UNDER INTERCONNECT PLAN.
Z. INSTALL CONCRETE FOUNDATION WITH 10' STEEL PEDESTAL POLE WITH MODIFIED BREAKWAY BASE STANDARD NO. MD 801.01-01, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND AUDIBLE/TACTILE PUSHBUTTON WITH R10-3(1) SIGN (NOTE: 1-2", 90 DEGREE PVC BEND.)
aa. INSTALL GROUND MOUNTED SIGN ON ONE (1) 4 IN.X6 IN. WOOD POST SUPPORT.

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 CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
3. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
7. 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%.
8. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
9. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
10. 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.
11. ALL TRAFFIC SIGNAL MODIFICATIONS SHALL BE CONSTRUCTED PRIOR TO SIDEWALK INSTALLATION.
12. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
13. THE CONTRACTOR SHALL INTEGRATE PROPOSED CONCRETE FOUNDATIONS WITH NEW SIDEWALK WHERE NECESSARY.
14. THE CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE SIDEWALK AT THE NEAREST JOINT.
15. THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL THE RECONSTRUCTED TRAFFIC SIGNAL IS OPERATIONAL.
16. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
17. FOR FINAL PAVEMENT MARKINGS AND PROPOSED SIGNAGE, OTHER THAN THOSE DETAILED ON THE PLAN, REFER TO THE CONTRACT DOCUMENTS. ALL PAVEMENT MARKINGS AND PROPOSED SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH MDSHA STANDARDS.

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
SD STORM DRAIN
G GAS MAIN
W WATER MAIN
SAN SEWER MAIN
E ELECTRIC CABLES
AERIAL CABLES
T TELEPHONE CABLES
FO FIBER-OPTIC

PREPARED BY
URS
HUNT VALLEY, MARYLAND

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

REVISIONS
A FULL TRAFFIC SIGNAL RECONSTRUCTION CONTRACT SHA NO. BA8775177 TIM# K132 9/2011
URS KJS SDY RDB MLP

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 40 (BALTIMORE NATIONAL PIKE) AND COLERIDGE ROAD
CATONSVILLE, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' ADVERTISED DATE 8/22/1972 CONTRACT NO. B-286-485

DESIGNED BY D. Doda COUNTY BALTIMORE
DRAWN BY D. Doda LOGMILE 03004003.69
CHECKED BY TIMS NO.
F.A.P. NO. TOD NO.

TS NO. 674A | DRAWING SP-1 OF SP-2 | SHEET NO. 30 OF 36

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BY: lichun_yeh