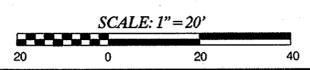
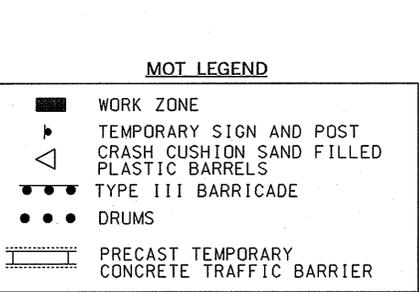
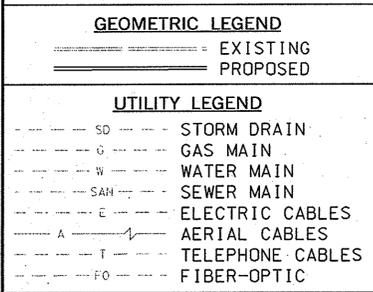


- CONSTRUCTION DETAILS**
- A. INSTALL A NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON BASE UNIT. (NOTE: TWO-4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS). STA 120+59, 64' LT.
 - B. INSTALL 200 AMP METERED SERVICE PEDESTAL (NOTE ONE-4 IN. AND TWO-2IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS IN PEDESTAL BASE).
 - C. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 70 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, 15 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-4(MOD) SIGN (TO READ "PUSH BUTTON TO CROSS CONSTANT FRIENDSHIP BLVD"), AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION WITH INTERNATIONAL BRAILLE ON FACE PLATE. (NOTE: TWO 3 IN. PVC SCHEDULE 80, 90 DEGREE CONDUIT BENDS) STA. 120+68, 61' LT.
 - D. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - E. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - F. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - G. INSTALL HANDHOLE.
 - H. USE EXISTING HANDHOLE.
 - J. REMOVE EXISTING SIGNAL POLE, SPAN WIRE, SIGNAL HEADS, SIGNS AND FOUNDATION 12" BELOW GRADE AND BACK FILL.
 - K. REMOVE EXISTING SIGNAL POLE, SPAN WIRE, POLE MOUNTED CABINET, SIGNAL HEADS, SIGNS AND FOUNDATION 12" BELOW GRADE AND BACK FILL.
 - L. MAINTAIN EXISTING MICRO-LOOP PROBE DETECTORS.
 - M. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
 - N. ABANDON EXISTING LOOP DETECTOR.
 - P. REMOVE EXISTING HANDHOLE.
 - Q. INSTALL 24 IN. WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKING FOR STOP LINE.
 - R. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-4(MOD) SIGN (TO READ "PUSH BUTTON TO CROSS CONSTANT FRIENDSHIP BLVD") AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION WITH INTERNATIONAL BRAILLE ON FACE PLATE. (NOTE: ONE-3 IN. PVC SCHEDULE 80 90 DEGREE CONDUIT BEND). STA. 121+58, 78' LT.
 - S. INSTALL NON INVASIVE PROBES WITH 500 FT. LEAD IN CABLE (TO BE PLACED IN THRU LANE ONLY PER SHA STANDARD MD 815.03).
 - T. CAP AND ABANDON EXISTING CONDUIT.
 - U. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
 - V. REMOVE EXISTING SIGNAL POLE, SPAN WIRE, SIGNAL HEADS, SIGNS AND LIGHTING ARM.
 - W. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 50 FT. MAST ARMS, SIGNAL HEADS, SIGNS, 10 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE AND OVERHEAD VIDEO DETECTION CAMERAS MOUNTED ON MAST ARMS. (NOTE: TWO 3 IN. PVC SCHEDULE 80, 90 DEGREE CONDUIT BEND) STA. 121+55, 34' LT.
 - X. USE EXISTING HANDHOLE AND DISCONNECT, PULL BACK AND REROUTE EXISTING MICRO LOOP PROBE DETECTION CABLES.
 - Y. INSTALL HANDHOLE WITH LONGER DIMENSION PERPENDICULAR TO THE TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES.

- GENERAL NOTES**
1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA/OOTS ENGINEER.
 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
 4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED, EXCEPT THE CONTROLLER UNIT AND AUXILIARY EQUIPMENT WITHIN THE CABINET, SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.
 5. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
 6. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
 7. 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 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
 8. INSTALL 10 FEET OF ADDITIONAL SLACK OF ELECTRICAL CABLE FOR SIGNAL HEAD NUMBERS 2,3,4,5,6 AND 7.
 9. SEE SIGNING AND PAVEMENT MARKING PLAN FOR PROPOSED GROUND MOUNTED SIGNS.
 10. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER 2 WEEKS PRIOR TO BEGINNING SIGNAL WORK TO ARRANGE FOR SHA SIGNAL INSPECTION.



SABRA, WANG & ASSOCIATES, INC.
 1504 JOH. AVENUE
 SUITE 180
 BALTIMORE, MD 21227
 (410) 737-6584
 WWW.SABRA-WANG.COM

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DIVISION

ASST. CHIEF TRAFFIC ENGINEERING DIVISION

CHIEF TRAFFIC ENGINEERING DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

REVISIONS

⑧ STAGES 2-4 MOT SIGNAL DUE TO GEOMETRIC IMPROVEMENTS MDTA # KH-271-000-007

SWA [Signature] 05/12/06

① INSTALL RIGHT TURN OVERLAP FOR NB CONSTANT FRIENDSHIP BLVD

02/01

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 TOLLGATE ROAD AT CONSTANT FRIENDSHIP BLVD
 IMPROVEMENTS TO I95 AND MD 24 INTERCHANGE
 ABINGDON, MARYLAND

TEMPORARY TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE JANUARY, 2002 CONTRACT NO. _____

DESIGNED BY D. DICKERSON COUNTY HARMFORD

DRAWN BY _____ LOGMILE _____

CHECKED BY _____ TMS NO. F-006

FAP NO. _____ TOD NO. _____

TS NO. _____ DRAWING **PSG** OF **P001** SHEET NO. 665 OF 889