DRILL HOLES

DRILL HOLES

DRILL HOLES

BY: AV

MD ROUTE 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS TO REMAIN

1,2,5,6 — R Y G — 12"

7,8 — OPTICAL PRE-EMPTION DETECTOR EYE

EXISTING SIGNALS TO BE REMOVED

12"

PROPOSED BLACK FACED LED SIGNALS

3,4 — R Y G — 12"

9,10 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

EXISTING SIGNS TO REMAIN

19 — ONE WAY — R6-1(L) (36"x12")

14 — R3-1(R) (24"x24")

EXISTING SIGNS TO BE REMOVED

R10-4 MOD (9"x12")

Bowie RD — D-3 (VAR.x16")

PROPOSED SIGNS

12 — R3-1(L) (30"x30")

11 — Bowie RD — D-3(1)MOD. (VAR.x16")

13 — Washington BLVD — D-3(1)MOD. (VAR.x16")

20 — ONE WAY — R6-1(L) (36"x12")

21,22 — ONE WAY — R6-1(R) (36"x12")

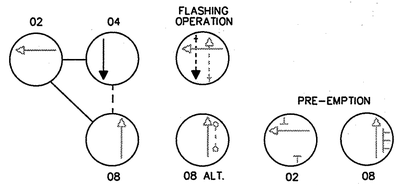
15,17 — PUSH BUTTON FOR CROSSING WASHINGTON BLVD

18 — WASHINGTON BVLD IN BRAILLE TYPE 2

16 — WASHINGTON BLVD IN BRAILLE TYPE 1

R10-3(1) MOD (9"x15")

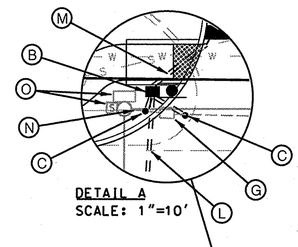
PROPOSED NEMA PHASING



NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT 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 CONSTRUCTION SO THAT UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATE SO THAT THE CONFLICT MAY BE RESOLVED.
2. EXISTING SIGNAL EQUIPMENT, CONDUIT, CONDUCTORS, HANDHOLES, ETC. SHALL BE REUSED AND PROTECTED IN PLACE UNLESS OTHERWISE NOTED. WHEN NOTED, REMOVED OR UNUSED SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF FROM THE SITE.
3. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS UNLESS OTHERWISE SHOWN. 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.
5. ALL CONDUITS AND HANDBOXES SHALL BE INSTALLED PRIOR TO DISCONNECTING THE INTERCONNECT CABLE. NO CABLES SHALL BE LEFT UNATTENDED WHILE OUT OF THE CONDUIT. PLEASE CONTACT MR. ED RODENHIZER AT 410-787-7650 AT LEAST 72 HOURS IN ADVANCE TO ARRANGE FOR THE CABLES TO BE DISCONNECTED.
6. PUSH BUTTONS ARE TO BE LOCATED ADJACENT TO A LEVEL (1:48) LANDING (32"X54") ALONG THE PEDESTRIAN ACCESS ROUTE LEADING TO THE CROSSWALK.
7. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTONS 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 PUSH BUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC SAFETY.
8. PUSH BUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60'x60' LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
9. THE 10' SEPARATION BETWEEN PUSH BUTTONS IS TO BE MEASURED FROM THE FACE OF PUSH BUTTON TO THE FACE OF PUSH BUTTON, NOT FROM CENTER OF POLE TO CENTER OF POLE.
10. PUSH BUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSWALK FOR WHICH THEY ARE INTENDED.
11. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION. "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR SHALL STOP WORK ON PUSH BUTTON LOCATIONS UNTIL THE CONFLICT IS RESOLVED. IF NECESSARY, A DESIGN WAIVER APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY, SHALL BE OBTAINED.
12. THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNAL OPERATION DURING CONSTRUCTION.
13. THIS PLAN SHALL BE VALID FOR ONE YEAR FROM DATE OF APPROVAL.



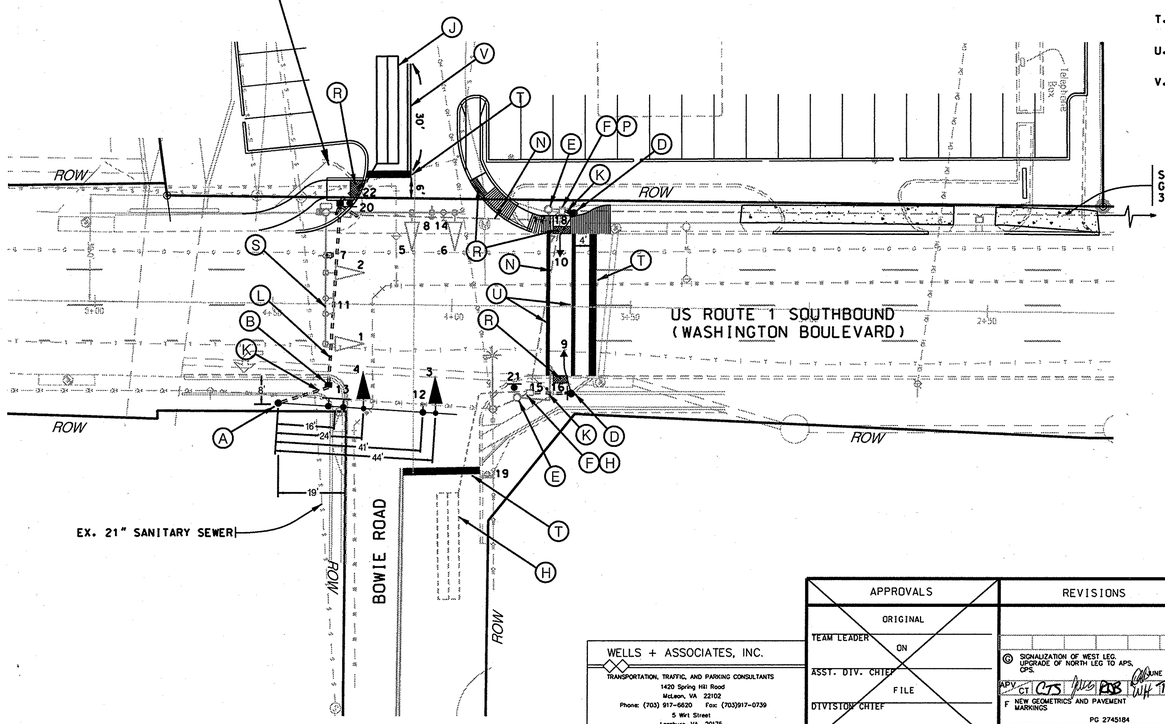
DETAIL A
SCALE: 1"=10'

CONSTRUCTION DETAILS

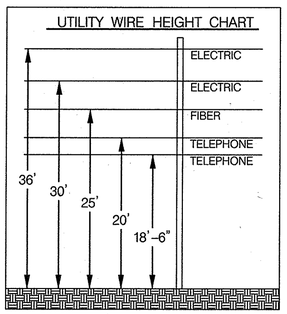
A. INSTALL 15' SPECIAL "T" STEEL POLE WITH A 38' MAST ARM, SIGNAL HEADS AND D-3 SIGN (MOD.). (INSTALL 1-3" SCHEDULE 80, 90 DEGREE, PVC ELECTRICAL CONDUIT BEND IN POLE BASE.)
B. INSTALL NEW ELECTRICAL HANDBOX.
C. CONNECT PROPOSED 3", 80 SCHEDULE, PVC CONDUIT (TRENCHED) TO EXISTING 3" CONDUIT.
D. PROVIDE NEW PEDESTAL POLE WITH NEW 16" LED PEDESTRIAN SIGNAL HEAD, APS PUSH BUTTON, AND R10-3(1) MOD. SIGN.
E. REMOVE EXISTING PEDESTAL POLE, PEDESTRIAN SIGNAL HEAD, PUSH BUTTON, AND PUSH BUTTON SIGN.
F. USE EXISTING ELECTRICAL HANDBOX.
G. REMOVE EXISTING ELECTRICAL HANDBOX.
H. USE EXISTING LOOP DETECTOR. RESPLICE TO NEW WIRING.
J. INSTALL 6'x 30' LOOP DETECTOR ENCASED IN 1/4 " FLEXIBLE TUBING QUADRUPLE TYPE (3-6-3 WINDING).
K. INSTALL 3", 80 SCHEDULE, PVC CONDUIT (TRENCHED).
L. INSTALL 4", 80 SCHEDULE, PVC CONDUIT (BORED).
M. INSTALL 1-1" LIQUID-TIGHT, NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE.
O. USE EXISTING POLE- MOUNTED CONTROLLER AND SERVICE EQUIPMENT.
N. USE EXISTING CONDUIT.
P. DISCONNECT SIGNAL INTERCONNECT CABLE AND PULL BACK TO THIS HANDBOX DURING HANDBOX REPLACEMENT. RE-FEED THROUGH PROPOSED CONDUIT.
R. INSTALL 2' DETECTABLE WARNING SURFACE.
S. REMOVE & REPLACE EXISTING SIGN.

SIGNING AND PAVEMENT MARKING DETAILS

T. INSTALL 24" WHITE THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
U. INSTALL 12" WHITE THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).
V. INSTALL 5" DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING.



UTILITY WIRE HEIGHT CHART



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
OH — OVERHEAD CABLES

WELLS + ASSOCIATES, INC.
TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS
1420 Spring Hill Road
McLean, VA 22102
Phone: (703) 917-6620 Fax: (703)917-0739
5 Wirt Street
Leesburg, VA 20175
Phone: (703) 443-1442 Fax: (703)443-1225

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

REVISIONS
C SIGNALIZATION OF WEST LEG, UPGRADE OF NORTH LEG TO APS, CPS. APV CT CTS JUNE 2008
F NEW GEOMETRICS AND PAVEMENT MARKINGS PG 2745184 AH

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

SOUTHBOUND US ROUTE 1 (WASHINGTON BOULEVARD) at BOWIE ROAD
LAUREL, MARYLAND

TRAFFIC SIGNAL MODIFICATION PLAN

SCALE 1" = 20' DATE 07-26-72 CONTRACT NO.

DESIGNED BY
DRAWN BY
CHECKED BY
F.A.P. NO.
COUNTY PRINCE GEORGES
LOGMILE 116000113.50
TIMS# 1890
TOD NO.

DRAWING NO. 1632G
SHEET NO. 1 OF 2

PLOTTED: $DATETIME$
FILE: L:\Projects\3501 - 4000\3730 - US 1 SB & Bowie Rd\Design\US 1 SB & Bowie Rd TSD.dgn