MD 194 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGN TO BE REMOVED: 17A

EX. SIGNS TO BE RELOCATED SHOWN AT FINAL LOCATION: 16, 18

EXISTING SIGNS TO REMAIN: 12,14 Glade Boulevard; 13, 17; 15, 19

PROPOSED SIGNS: 20, 21 — R10-3(1) 9" x 15"

PROPOSED VIDEO DETECTION CAMERA: a,b

EXISTING SIGNALS TO BE REMOVED: 1A,2A,4A-7A; 10A,11A — 12"

EXISTING SIGNALS TO REMAIN: 8,9 — 12"

PROPOSED SIGNALS: 1,2,5,6,7 — 12"; 3 — 12"/8"; 4 — 12"; 10,11 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

VIDEO ZONE DETECTION: a

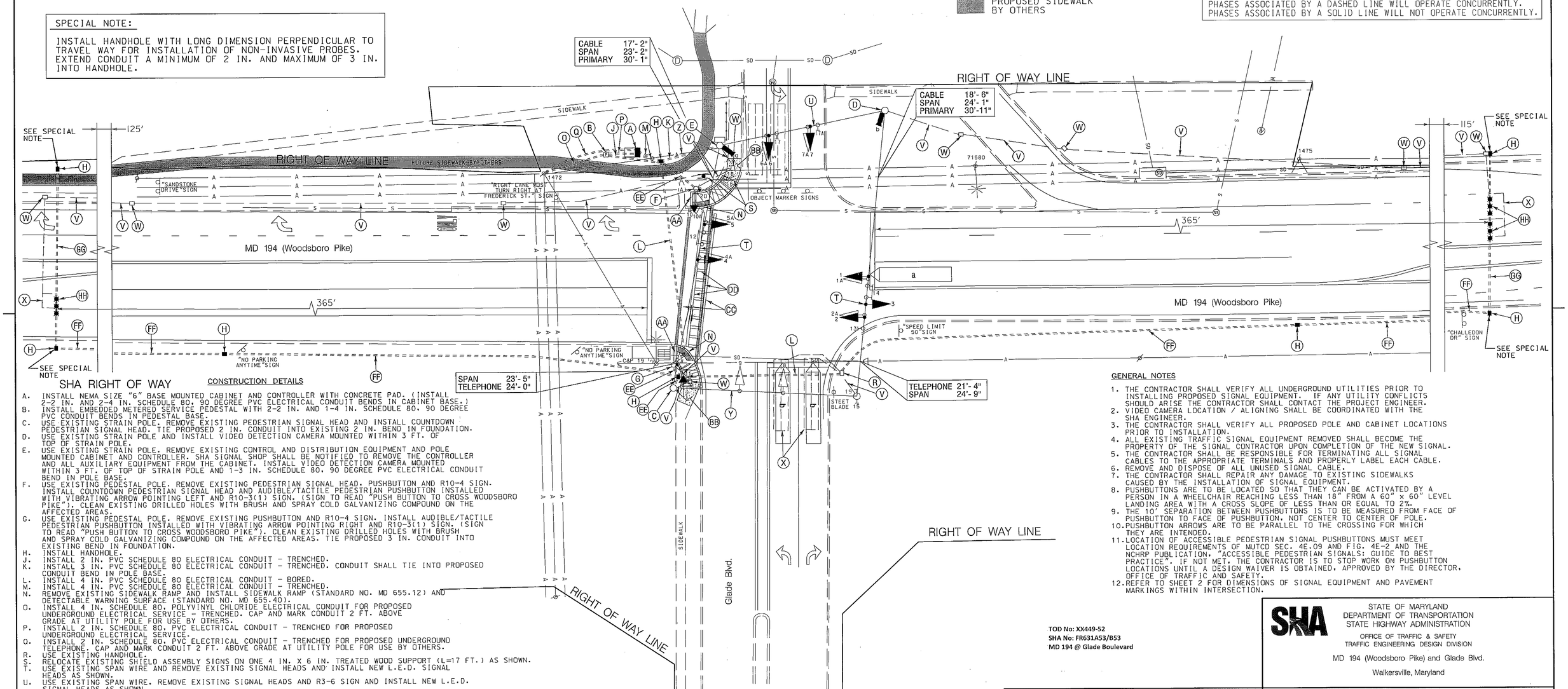
PROPOSED SIDEWALK BY OTHERS

NEMA PHASING: Ø2, Ø4, FLASHING OPERATION; Ø5, Ø6, Ø8, Ø4+Ø8 ALT.

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

SPECIAL NOTE:

INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.



SHA RIGHT OF WAY

CONSTRUCTION DETAILS

A. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
B. INSTALL EMBEDDED METERED SERVICE PEDESTAL WITH 2-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE.
C. USE EXISTING STRAIN POLE. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD. TIE PROPOSED 2 IN. CONDUIT INTO EXISTING 2 IN. BEND IN FOUNDATION.
D. USE EXISTING STRAIN POLE AND INSTALL VIDEO DETECTION CAMERA MOUNTED WITHIN 3 FT. OF TOP OF STRAIN POLE.
E. USE EXISTING STRAIN POLE. REMOVE EXISTING CONTROL AND DISTRIBUTION EQUIPMENT AND POLE MOUNTED CABINET AND CONTROLLER. SHA SIGNAL SHOP SHALL BE NOTIFIED TO REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CABINET. INSTALL VIDEO DETECTION CAMERA MOUNTED WITHIN 3 FT. OF TOP OF STRAIN POLE AND 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE.
F. USE EXISTING PEDESTAL POLE. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND R10-4 SIGN. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS WOODSBORO PIKE"). CLEAN EXISTING DRILLED HOLES WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREAS.
G. USE EXISTING PEDESTAL POLE. REMOVE EXISTING PUSHBUTTON AND R10-4 SIGN. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS WOODSBORO PIKE"). CLEAN EXISTING DRILLED HOLES WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREAS. TIE PROPOSED 3 IN. CONDUIT INTO EXISTING BEND IN FOUNDATION.
H. INSTALL HANDHOLE.
J. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
K. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. CONDUIT SHALL TIE INTO PROPOSED CONDUIT BEND IN POLE BASE.
L. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
M. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
N. REMOVE EXISTING SIDEWALK RAMP AND INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.12) AND DETECTABLE WARNING SURFACE (STANDARD NO. MD 655.40).
O. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE - TRENCHED. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
P. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
Q. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND TELEPHONE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
R. USE EXISTING HANDHOLE.
S. RELOCATE EXISTING SHIELD ASSEMBLY SIGNS ON ONE 4 IN. X 6 IN. TREATED WOOD SUPPORT (L=17 FT.) AS SHOWN.
T. USE EXISTING SPAN WIRE AND REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW L.E.D. SIGNAL HEADS AS SHOWN.
U. USE EXISTING SPAN WIRE. REMOVE EXISTING SIGNAL HEADS AND R3-6 SIGN AND INSTALL NEW L.E.D. SIGNAL HEADS AS SHOWN.
V. CAP AND ABANDON EXISTING CONDUIT.
W. REMOVE EXISTING HANDHOLE.
X. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
Y. USE EXISTING SPAN WIRE.
Z. EXISTING OVERHEAD ELECTRICAL SERVICE FEED TO BE REMOVED BY OTHERS.
AA. INSTALL STANDARD TYPE A COMBINATION CURB AND GUTTER PAN.
BB. REMOVE EXISTING SIDEWALK AND INSTALL 5 IN. CONCRETE SIDEWALK.
CC. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
DD. REMOVE EXISTING PAVEMENT MARKINGS.
EE. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. CONDUIT SHALL TIE INTO EXISTING BEND IN POLE BASE.
FF. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
GG. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
HH. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.

GENERAL NOTES

1. 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.
2. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
3. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET 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. 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. 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. REFER TO SHEET 2 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.

TOD No: XX449-52
SHA No: FR631A53/B53
MD 194 @ Glade Boulevard

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

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

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

REVISIONS
(E) INSTALL NEW CABINET AND SERVICE PEDESTAL. UPGRADE SIGNAL HEADS TO LED AND ADDED E/P LEFT TURN ON S/B MD 194 TIMS WK178 CONTRACT NO. XX4425185 4/19/2010
(D) ASBUILT 4/16/1996
(C) ADD PEDESTRIAN SIGNAL AND PUSHBUTTONS, SIGNS AND CROSSWALK FOR SOUTH LEG. 6/1995
DMP DJD TH

PLOTTED: 04-19-2010
FILE: n:\31669-062\CADD\pSG-P001_K178.dgn

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

MD 194 (Woodsboro Pike) and Glade Blvd.
Walkersville, Maryland

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE 02/26/1985 CONTRACT NO. F-153-501-785

DESIGNED BY D. Miller COUNTY Frederick
DRAWN BY D. Miller LOGMILE 10019402.83
CHECKED BY G. Cook TIMS NO. K178
F.A.P. NO. TOD NO.

TS NO. 2084E DRAWING TSP-1 OF 3 SHEET NO. 1 OF 3

BY: sbloss