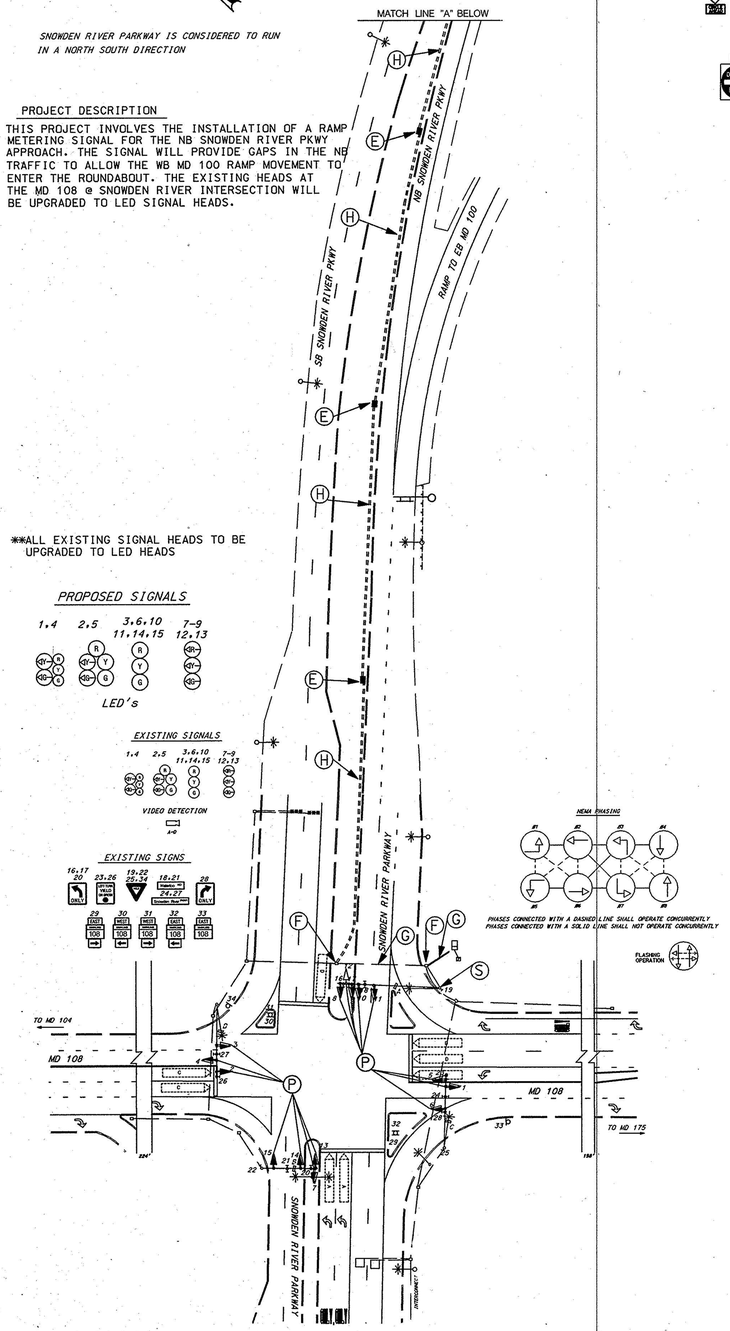
SNOWDEN RIVER PARKWAY IS CONSIDERED TO RUN IN A NORTH SOUTH DIRECTION

PROJECT DESCRIPTION

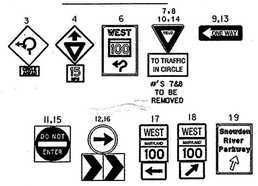
THIS PROJECT INVOLVES THE INSTALLATION OF A RAMP METERING SIGNAL FOR THE NB SNOWDEN RIVER PKWY APPROACH. THE SIGNAL WILL PROVIDE GAPS IN THE NB TRAFFIC TO ALLOW THE WB MD 100 RAMP MOVEMENT TO ENTER THE ROUNDABOUT. THE EXISTING HEADS AT THE MD 108 @ SNOWDEN RIVER INTERSECTION WILL BE UPGRADED TO LED SIGNAL HEADS.

**ALL EXISTING SIGNAL HEADS TO BE UPGRADED TO LED HEADS



MD 108 (WATERLOO RD) AT MD 100W (SNOWDEN RIVER PKWY) - TS 3581E

EXISTING SIGNS



MD 100W(SNOWDEN RIVER PKWY) AT MD 100 ROUND-A-BOUT - TS 4930

PROPOSED SIGNS

6A

48"x48"
W3-3
UPRIGHT POLE MOUNTED

PROPOSED SIGNALS

1,2 3,4

12" 12"

NEMA PHASING

Ø1 Ø2

FLASHING OPERATION

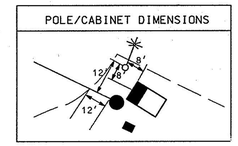
USE EXISTNG BASE MOUNTED BGE TRANSFORMER LOCATED 225'+/- EAST OF THE ROUNDABOUT LOCATED ON THE NORTH SIDE OF THE WB OFF RAMP

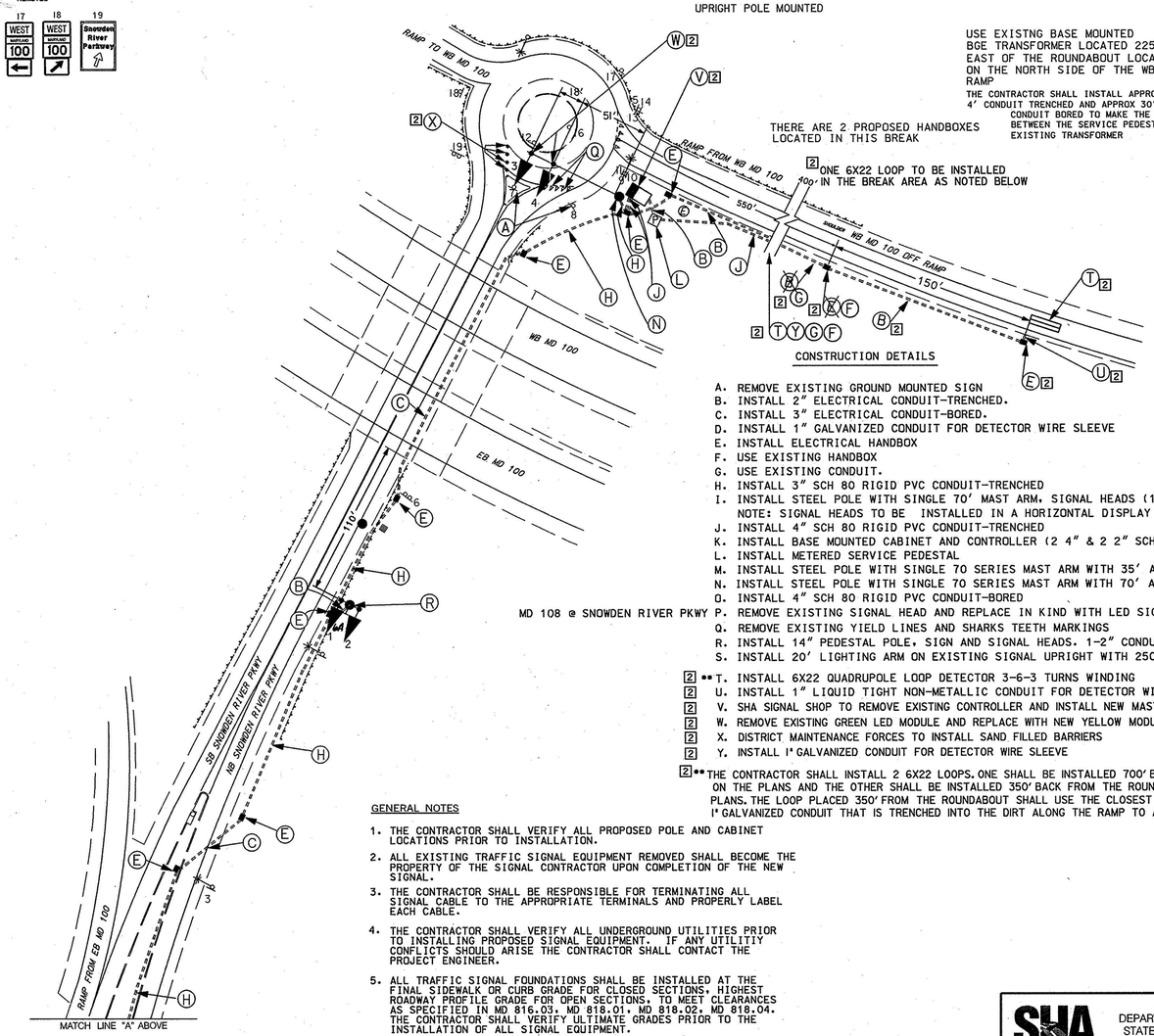
THE CONTRACTOR SHALL INSTALL APPROX. 265' OF 4' CONDUIT TRENCHED AND APPROX 30' OF 4" CONDUIT BORED TO MAKE THE CONNECTION BETWEEN THE SERVICE PEDESTAL AND THE EXISTING TRANSFORMER

THERE ARE 2 PROPOSED HANDBOXES LOCATED IN THIS BREAK

[2] ONE 6X22 LOOP TO BE INSTALLED IN THE BREAK AREA AS NOTED BELOW

POLE/CABINET DIMENSIONS





CONSTRUCTION DETAILS

A. REMOVE EXISTING GROUND MOUNTED SIGN
B. INSTALL 2" ELECTRICAL CONDUIT-TRENCHED.
C. INSTALL 3" ELECTRICAL CONDUIT-BORED.
D. INSTALL 1" GALVANIZED CONDUIT FOR DETECTOR WIRE SLEEVE
E. INSTALL ELECTRICAL HANDBOX
F. USE EXISTING HANDBOX
G. USE EXISTING CONDUIT.
H. INSTALL 3" SCH 80 RIGID PVC CONDUIT-TRENCHED
I. INSTALL STEEL POLE WITH SINGLE 70' MAST ARM, SIGNAL HEADS (1 3" CONDUIT BEND IN BASE)
NOTE: SIGNAL HEADS TO BE INSTALLED IN A HORIZONTAL DISPLAY AS SHOWN IN THE LEGEND
J. INSTALL 4" SCH 80 RIGID PVC CONDUIT-TRENCHED
K. INSTALL BASE MOUNTED CABINET AND CONTROLLER (2 4" & 2 2" SCH 80 RIGID PVC CONDUIT BENDS)
L. INSTALL METERED SERVICE PEDESTAL
M. INSTALL STEEL POLE WITH SINGLE 70 SERIES MAST ARM WITH 35' ARM AND SIGN(1-3" BEND IN BASE)
N. INSTALL STEEL POLE WITH SINGLE 70 SERIES MAST ARM WITH 70' ARM AND SIGN(2-3" BENDS IN BASE)
O. INSTALL 4" SCH 80 RIGID PVC CONDUIT-BORED
P. REMOVE EXISTING SIGNAL HEAD AND REPLACE IN KIND WITH LED SIGNAL HEAD
Q. REMOVE EXISTING YIELD LINES AND SHARKS TEETH MARKINGS
R. INSTALL 14" PEDESTAL POLE, SIGN AND SIGNAL HEADS. 1-2" CONDUIT BEND IN BASE
S. INSTALL 20' LIGHTING ARM ON EXISTING SIGNAL UPRIGHT WITH 250W HPS LUMINAIRE

[2] **T. INSTALL 6X22 QUADRUPOLE LOOP DETECTOR 3-6-3 TURNS WINDING
[2] U. INSTALL 1" LIQUID TIGHT NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE
[2] V. SHA SIGNAL SHOP TO REMOVE EXISTING CONTROLLER AND INSTALL NEW MASTER CONTROLLER
[2] W. REMOVE EXISTING GREEN LED MODULE AND REPLACE WITH NEW YELLOW MODULE
[2] X. DISTRICT MAINTENANCE FORCES TO INSTALL SAND FILLED BARRIERS
[2] Y. INSTALL 1" GALVANIZED CONDUIT FOR DETECTOR WIRE SLEEVE

[2] **THE CONTRACTOR SHALL INSTALL 2 6X22 LOOPS. ONE SHALL BE INSTALLED 700' BACK FROM THE ROUNDABOUT AS SHOWN ON THE PLANS AND THE OTHER SHALL BE INSTALLED 350' BACK FROM THE ROUNDABOUT MEASURED AS SHOWN ON THE PLANS. THE LOOP PLACED 350' FROM THE ROUNDABOUT SHALL USE THE CLOSEST HANDBOX AVAILABLE AND SHALL USE 1" GALVANIZED CONDUIT THAT IS TRENCHED INTO THE DIRT ALONG THE RAMP TO AVOID EXCESSIVE SAW CUTTING OF THE RAMP.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITIY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
5. 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.

SPECIAL NOTES

1. THE CONTRACTOR SHALL REFERANCE AND USE MOT STANDARD 104.05.02
2. THE CONTRACTOR SHALL CONTACT MR. RAY JOHNSON AT 410-624-8106 TO MAKE ARRANGEMENTS TO HAVE THE EXISTING LIGHTING CABLE LOCATED IN THE FIELD.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 108 @ SNOWDEN RIVER PKWY - TS 3581 E
MD 100W(SNOWDEN RIVER PKWY) AT MD 100 ROUND-A-BOUT - TS 4930
S MD 100W(SNOWDEN RIVER PKWY) AT MD 100 ROUND-A-BOUT - TS 4930
COLUMBIA, MARYLAND

APPROVALS	REVISIONS
TEAM LEADER	E. INSTALL QUEUE AND PRESENCE DETECTION ON RAMP, CLOSE OFF CIRCULATION IN ROUNDABOUT WITH BARRELS [2] G983 AT835185 JANUARY, 2007 CJS
ASST. DIV. CHIEF	D. INSTALL NB RAMP METERING SIGNAL FOR SNOWDEN RIVER PKWY. REPLACE ALL SIGNALS AT MD 108 WITH LED HEADS G983 AT835185 SEPT. 2006 CJS
DIVISION CHIEF	C. REORIENTED PLANSHEET AS REQUESTED BY SIGNAL SHOP 8/2004 JB
OFFICE DIRECTOR	

ORIGINALS ON FILE

SCALE 1"=50' DATE JUNE 1998 CONTRACT NO. HO-661-504-770

DESIGNED BY R. CICCHINI COUNTY HOWARD
DRAWN BY R. CICCHINI LOGMILE 13010813.15
CHECKED BY D.PETERS T.I.M.S. NO. F 829
F.A.P. NO. TOD NO.

DRAWING NO. TS 3581 - TS 4930 OF SHEET NO. OF

PLOTTED: MONDAY, JANUARY 08, 2007 AT 2:33:24 PM
FILE: MD 100 @ SNOWDEN RVR-REDLINE-2-SP.DGN

BY: CSTRAIN