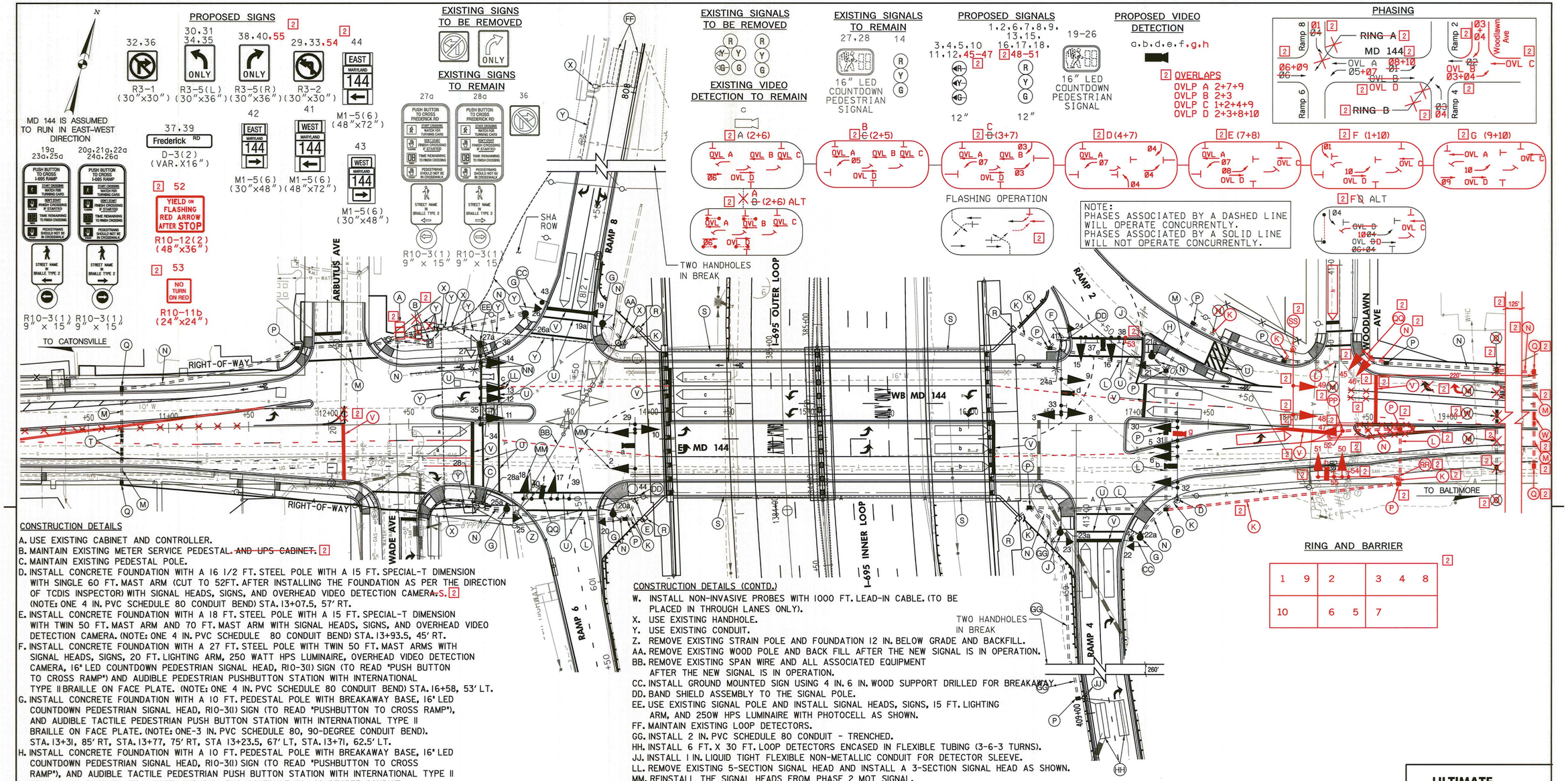

CONSTRUCTION DETAILS

A. USE EXISTING CABINET AND CONTROLLER.
B. MAINTAIN EXISTING METER SERVICE PEDESTAL. ~~AND UPS CABINET.~~ 2
C. MAINTAIN EXISTING PEDESTAL POLE.
D. INSTALL CONCRETE FOUNDATION WITH A 16 1/2 FT. STEEL POLE WITH A 15 FT. SPECIAL-T DIMENSION WITH SINGLE 60 FT. MAST ARM (CUT TO 52FT. AFTER INSTALLING THE FOUNDATION AS PER THE DIRECTION OF TCDIS INSPECTOR) WITH SIGNAL HEADS, SIGNS, AND OVERHEAD VIDEO DETECTION CAMERA~~S~~. 2 (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND) STA. 13+07.5, 57' RT.
E. INSTALL CONCRETE FOUNDATION WITH A 18 FT. STEEL POLE WITH A 15 FT. SPECIAL-T DIMENSION WITH TWIN 50 FT. MAST ARM AND 70 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND OVERHEAD VIDEO DETECTION CAMERA. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND) STA. 13+93.5, 45' RT.
F. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 50 FT. MAST ARMS WITH SIGNAL HEADS, SIGNS, 20 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE, OVERHEAD VIDEO DETECTION CAMERA, 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS RAMP") AND AUDIBLE PEDESTRIAN PUSHBUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND) STA. 16+58, 53' LT.
G. INSTALL CONCRETE FOUNDATION WITH A 10 FT. PEDESTAL POLE WITH BREAKAWAY BASE, 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN (TO READ "PUSHBUTTON TO CROSS RAMP"), AND AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. (NOTE: ONE-3 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND). STA. 13+31, 85' RT, STA. 13+77, 75' RT, STA 13+23.5, 67' LT, STA. 13+71, 62.5' LT.
H. INSTALL CONCRETE FOUNDATION WITH A 10 FT. PEDESTAL POLE WITH BREAKAWAY BASE, 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN (TO READ "PUSHBUTTON TO CROSS RAMP"), AND AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. . (NOTE: ONE-3 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND). STA. 17+14, 42' LT.
J. INSTALL MODIFIED CONCRETE FOUNDATION WITH BREAKAWAY COUPLINGS WITH A 10 FT. PEDESTAL POLE WITH BREAKAWAY BASE, 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN (TO READ "PUSHBUTTON TO CROSS RAMP"), AND AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. (NOTE: ONE-3 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND). STA. 16+17, 68' RT.
K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
L. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
M. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
N. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
P. INSTALL HANDHOLE.
Q. INSTALL HANDHOLE LONGER EDGE PERPENDICULAR TO THE ROADWAY FOR NON-INVASIVE PROBES.
R. LOCATE STUB-OUT FOR CONDUIT IN BRIDGE END POST.
S. USE CONDUIT IN THE BRIDGE PARAPET.
T. INSTALL NON-INVASIVE PROBES WITH 500 FT. LEAD-IN CABLE. (TO BE PLACED IN THROUGH LANES ONLY).
U. INSTALL 12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
V. INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.

CONSTRUCTION DETAILS (CONTD.)

W. INSTALL NON-INVASIVE PROBES WITH 1000 FT. LEAD-IN CABLE. (TO BE PLACED IN THROUGH LANES ONLY).
X. USE EXISTING HANDHOLE.
Y. USE EXISTING CONDUIT.
Z. REMOVE EXISTING STRAIN POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
AA. REMOVE EXISTING WOOD POLE AND BACK FILL AFTER THE NEW SIGNAL IS IN OPERATION.
BB. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT AFTER THE NEW SIGNAL IS IN OPERATION.
CC. INSTALL GROUND MOUNTED SIGN USING 4 IN. 6 IN. WOOD SUPPORT DRILLED FOR BREAKAWAY.
DD. BAND SHIELD ASSEMBLY TO THE SIGNAL POLE.
EE. USE EXISTING SIGNAL POLE AND INSTALL SIGNAL HEADS, SIGNS, 15 FT. LIGHTING ARM, AND 250W HPS LUMINAIRE WITH PHOTOCELL AS SHOWN.
FF. MAINTAIN EXISTING LOOP DETECTORS.
GG. INSTALL 2 IN. PVC SCHEDULE 80 CONDUIT - TRENCHED.
HH. INSTALL 6 FT. X 30 FT. LOOP DETECTORS ENCASED IN FLEXIBLE TUBING (3-6-3 TURNS).
JJ. INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
LL. REMOVE EXISTING 5-SECTION SIGNAL HEAD AND INSTALL A 3-SECTION SIGNAL HEAD AS SHOWN.
MM. REINSTALL THE SIGNAL HEADS FROM PHASE 2 MOT SIGNAL.
NN. RELOCATE EXISTING SIGN HEAD AS SHOWN.
2 PP. INSTALL CONCRETE FOUNDATION WITH A 14 FT. PEDESTAL POLE WITH BREAKAWAY BASE, SIGNAL HEAD, AND SIGN (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND) STA. 18+34, 3' RT.
2 QQ. INSTALL CONCRETE FOUNDATION WITH A 14 FT. PEDESTAL POLE WITH BREAKAWAY BASE, AND SIGNAL HEADS (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND). STA. 18+45.5, 45' LT.
2 RR. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE (CUT DOWN TO 21 FT.) WITH 50 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND OVERHEAD VIDEO DETECTION CAMERA (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND).
2 STA. 18+68, 31' RT.
SS. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 50 FT. MAST ARM WITH SIGNAL HEADS (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND). STA. 18+03, 47.5' LT.

GEOMETRIC LEGEND
EXISTING
PROPOSED

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

BY: khodges –

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-5564
WWW.SABRA-WANG.COM

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

2 REDLINE REVISION NO. 2, 08/19/2011

REVISIONS
② SHA NO. BA7275380 TIMS NO. 09-10
SIGNAL RECONSTRUCTION DUE TO INTERCHANGE IMPROVEMENTS AND MD 144 BRIDGE WIDENING
SWA

PLOTTED: Friday, August 19, 2011 AT 03:34 PM
FILE: R:\2008\42 SHA BCS 2004-18B Prel_Engrg URS\Task 8 MD 144\dwg\Signals\Redline 2\pSG-P007_MD144.dgn

ULTIMATE

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

MD 144 (FREDERICK ROAD) AT I-695 RAMPS
INTERCHANGE RECONSTRUCTION
CATONSVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1" = 30' DATE 3/4/2005 CONTRACT NO. BA7275380

DESIGNED BY J. PALADUGU
DRAWN BY J. PALADUGU
CHECKED BY K. RINIKER
F.A.P. NO. SEE TITLE SHEET
COUNTY BALTIMORE
LOGMILE 00314404.07
T.I.M.S. NO.
TOD NO.

TS NO. 4381A DRAWING NO. pSG OF P007 SHEET NO. 195 OF 235