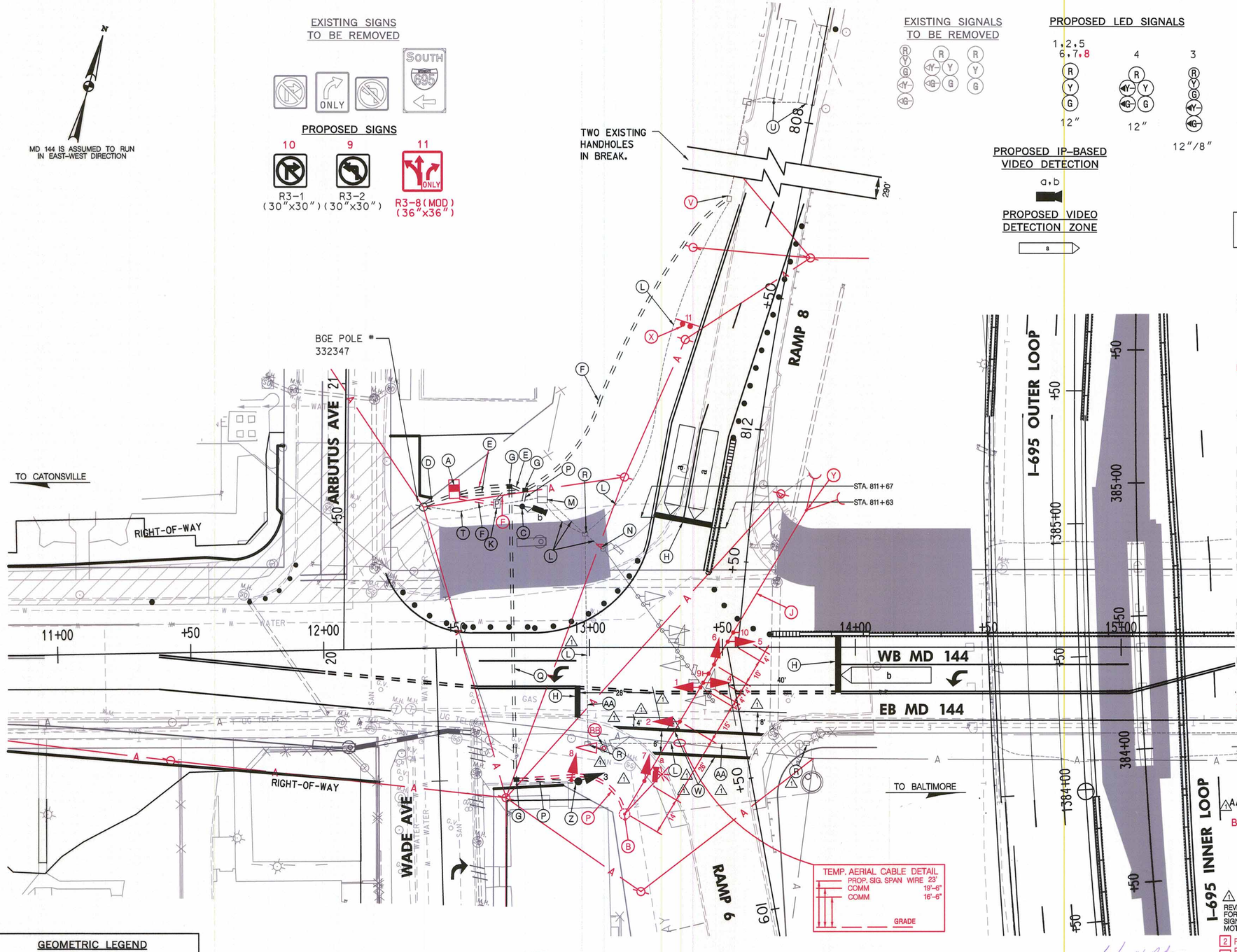

EXISTING SIGNALS TO BE REMOVED

PROPOSED LED SIGNALS

1,2,5 6,7,8 — 12"

4 — 12"

3 — 12"/8"

PROPOSED IP-BASED VIDEO DETECTION

a,b

PROPOSED VIDEO DETECTION ZONE

a

NEMA PHASING
MD 144 AT I-695 SB OFF-RAMP

Ø2 Ø4 Ø5 Ø6

FLASHING OPERATION

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

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH NEMA SIZE S BASE MOUNTED CABINET AND CONTROLLER WITH AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON BASE UNIT AND ELECTRICAL UTILITY SERVICE EQUIPMENT FOR UNDERGROUND SERVICE. NOTE: TWO (2) 4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS). STA 12+50, 57' LT.
B. INSTALL CONCRETE FOUNDATION WITH A 12 IN. X 30 FT. STEEL STRAIN POLE WITH SPAN WIRE, 20 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE WITH PHOTOCELL, AND OVERHEAD VIDEO DETECTION CAMERA MOUNTED ON LIGHTING ARM. (NOTE: ONE-3 IN. CONDUIT BEND) STA. 600+55, 49' RT.
C. INSTALL 40 FT. CLASS II WOOD POLE WITH TWO-3 IN. WEATHER HEADS, TWO-3 IN. PVC SCHEDULE 80 RISERS, VIDEO DETECTION CAMERA, AND BACK GUY ASSEMBLY. STA. 12+74, 53' LT.
D. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR PHONE DROP. - TRENCHED. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE.
E. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
F. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
G. INSTALL HANDHOLE.
H. INSTALL 24 IN. WHITE REMOVABLE PAVEMENT LINE MARKINGS FOR STOP LINE.
J. INSTALL 3/8 IN. SPAN WIRE WITH TRAFFIC SIGNAL HEADS AND SIGNS.
K. REUSE EXISTING METER SERVICE PEDESTAL
L. CAP AND ABANDON EXISTING CONDUIT.
M. REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER.
N. REMOVE EXISTING SIGNAL POLE AND FOUNDATION 12 IN. BELOW SUBGRADE AND BACKFILL. SALVAGE POLE FOR INSTALLATION AT THE WOODLAWN AVENUE INTERSECTION (SEE DRAWING pSG OF P004).
P. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
Q. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
R. REMOVE EXISTING HANDHOLE 12 IN. BELOW GRADE AND BACKFILL.
S. USE EXISTING HANDHOLE.
T. USE EXISTING CONDUIT.
U. MAINTAIN EXISTING LOOP DETECTORS.
V. USE EXISTING HANDHOLE. PULL BACK AND REROUTE EXISTING LOOP DETECTOR CABLES TO THE NEW CABINET.
W. INSTALL 12 IN. WHITE REMOVABLE PAVEMENT LINE MARKINGS FOR CROSSWALK.
X. INSTALL GROUND MOUNTED SIGN ON TWO (2) WOOD (4 IN. X 4 IN.) SUPPORTS.
Y. INSTALL 40 FT. CLASS II WOOD POLE WITH SPAN WIRE, AND BACK GUY ASSEMBLY. STA. 13+81.5, 51.5' LT. USE CAUTION DURING THE INSTALLATION OF THIS POLE AND GUYS TO AVOID CONFLICTS WITH S.O.E. TIES AND THE ULTIMATE WING WALL.
Z. INSTALL MODIFIED CONCRETE FOUNDATION WITH A 14 FT. STEEL PEDESTAL POLE WITH BREAKAWAY COUPLINGS, 12-INCH 5-SECTION AND 12-INCH 3-SECTION SIGNAL HEADS MOUNTED ON PEDESTAL POLE TOP. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND) STA. 12+96, 50' RT
AA. REMOVE AND DISPOSE INTERCONNECT CABLES FROM ALL HANDHOLES AND CONDUITS.
BB. REMOVE PEDESTAL POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

20' 0 20' 40'
SCALE: 1"=20'

MOT STAGE 2

1 NOVEMBER 3, 2010
REVISED SIGNALHEAD PLACEMENT FOR EB MD 144. REMOVAL OF EXISTING SIGNAL EQUIPMENT FROM STAGE 1 MOT.
2 REDLINE REVISION NO. 2, 08/19/2011
3 REDLINE REVISION NO. 3, REPLACE SHEET, DECEMBER 16, 2011

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

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

TRAFFIC SIGNAL PLAN

NOTE:
CONTRACTOR SHALL EXERCISE CAUTION WHEN INSTALLING THE PROPOSED STRAIN POLE AND WOOD POLE IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES. PRIOR TO THE INSTALLATION OF THESE STRUCTURES, CONTRACTOR SHALL TEST PIT.

NOTE:
REFER TO SHEET MOT 23 FOR PEDESTRIAN DETOUR DURING THIS PHASE.

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

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

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

SCALE 1" = 20'	DATE 3/14/2005	CONTRACT NO. AT7175185	
DESIGNED BY J. PALADUGU		COUNTY BALTIMORE	
DRAWN BY J. PALADUGU		LOGMILE 00314404.04	
CHECKED BY S.RENZI/J.WEAVER		T.I.M.S. NO. G650	
F.A.P. NO. SEE TITLE SHEET		TOD NO.	
TS NO. 4381A	DRAWING NO. pSG OF P002	SHEET NO. 186 OF 235	

PLOTTED: Thursday, December 08, 2011 AT 09:19 AM
FILE: R:\2005\42 SHA BCS 2004-18B Prel_Engrg URS\Task 8 MD 144\dwg\Signals\Redline 3\pSG-P002_MD144-Wade.dgn

BY: agriffin