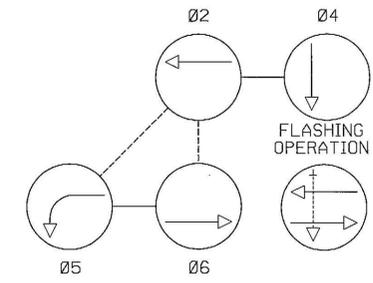
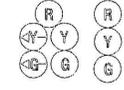


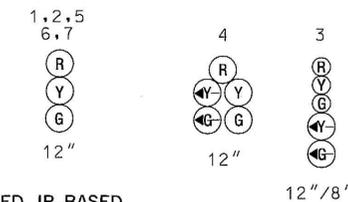
NEMA PHASING
MD 144 AT I-695 SB OFF-RAMP



EXISTING SIGNALS
TO BE REMOVED



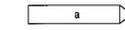
PROPOSED LED SIGNALS



PROPOSED IP-BASED
VIDEO DETECTION



PROPOSED VIDEO
DETECTION ZONE



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 6 BASE MOUNTED CABINET AND CONTROLLER WITH AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON BASE UNIT AND ELECTRICAL UTILITY SERVICE EQUIPMENT FOR UNDERGROUND SERVICE. (NOTE: THREE (3) 4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS). STA. I2+50, 57' LT.
- B. INSTALL A NEMA SIZE 5 BASE MOUNTED CABINET WITH UPS BATTERY BACK-UP SYSTEM. (NOTE: TWO-2 IN. PVC SCHEDULE 80 90-DEGREE CONDUIT BENDS IN BASE) STA. I2+56, 55' LT.
- C. INSTALL 40 FT. CLASS II WOOD POLE WITH SPAN WIRE, TWO-3 IN. WEATHER HEADS, TWO-3 IN. PVC SCHEDULE 80 RISERS, VIDEO DETECTION CAMERA, AND BACK GUY ASSEMBLY. STA. I2+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 A 1/4 IN. TETHER 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.
- 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 TWO (2) 4 IN. PVC SCHEDULE 80 CONDUITS - TRENCHED.
- Y. INSTALL 40 FT. CLASS II WOOD POLE WITH SPAN WIRE, ONE (1) 3 IN. RISER, ONE (1) 3 IN. WEATHERHEAD, VIDEO DETECTION CAMERA, AND BACK GUY ASSEMBLY. STA. I3+68, 55' RT.
- Z. INSTALL MODIFIED CONCRETE FOUNDATION WITH A 14 FT. STEEL PEDESTAL POLE WITH BREAKAWAY COUPLINGS, 12-INCH 5-SECTION SIGNAL HEAD MOUNTED ON PEDESTAL POLE TOP. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND) STA. I2+96, 50' RT



MOT STAGE 2

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 SB RAMPS
INTERCHANGE RECONSTRUCTION
CATONSVILLE, MARYLAND

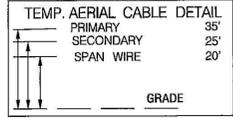
TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 3/14/2005 CONTRACT NO. AT175185
DESIGNED BY J. PALADUGU COUNTY BALTIMORE
DRAWN BY J. PALADUGU LOGMILE 00314404.04
CHECKED BY S. BENZ/WEAVER T.I.M.S. NO.
F.A.P. NO. SEE TITLE SHEET TOD NO.
TS NO. 4381A DRAWING NO. pSG OF P002 SHEET NO. 186 OF 235

APPROVALS	REVISIONS
TEAM LEADER	© SHA NO. BA7275380 T.I.M.S. NO. 05-10 SIGNAL RECONSTRUCTION DUE TO INTERCHANGE IMPROVEMENTS AND MD 144 BRIDGE WIDENING
ASST. DIV. CHIEF	SHA CSW/NW/RDR/EDS/TK
DIVISION CHIEF	
OFFICE DIRECTOR	

SABRA, WANG & ASSOCIATES, INC.
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BALTIMORE, MD 21227
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WWW.SABRA-WANG.COM

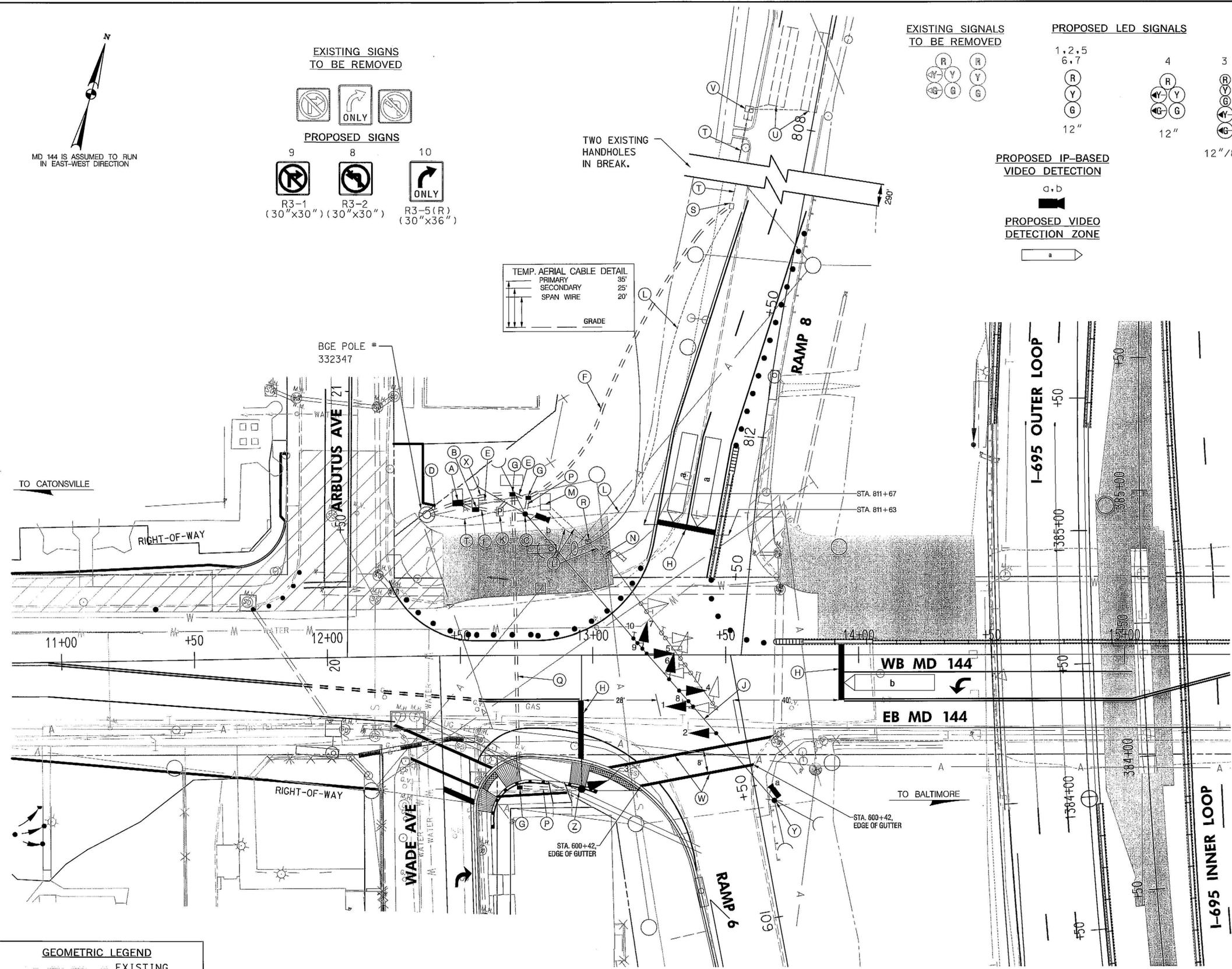
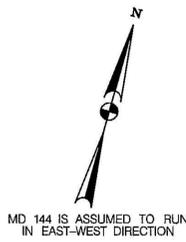
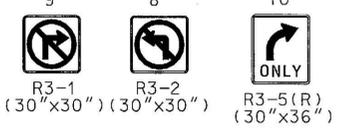
NOTE:
REFER TO SHEET MOT 23 FOR PEDESTRIAN DETOUR DURING THIS PHASE.



EXISTING SIGNS
TO BE REMOVED



PROPOSED SIGNS



GEOMETRIC LEGEND



UTILITY LEGEND

- STORM DRAIN
- GAS MAIN
- WATER MAIN
- SEWER MAIN
- ELECTRIC CABLES
- AERIAL CABLES
- TELEPHONE CABLES
- FIBER-OPTIC

BY: Agriffin