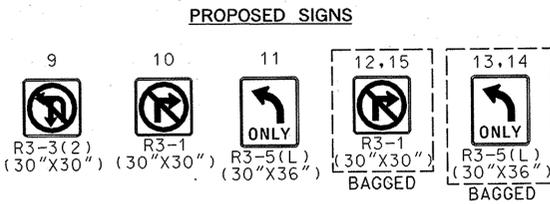
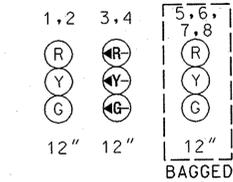


MD 24 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION



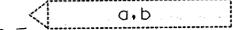
PROPOSED LED SIGNALS



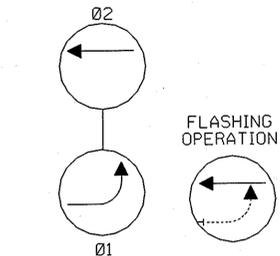
PROPOSED VIDEO DETECTION CAMERA



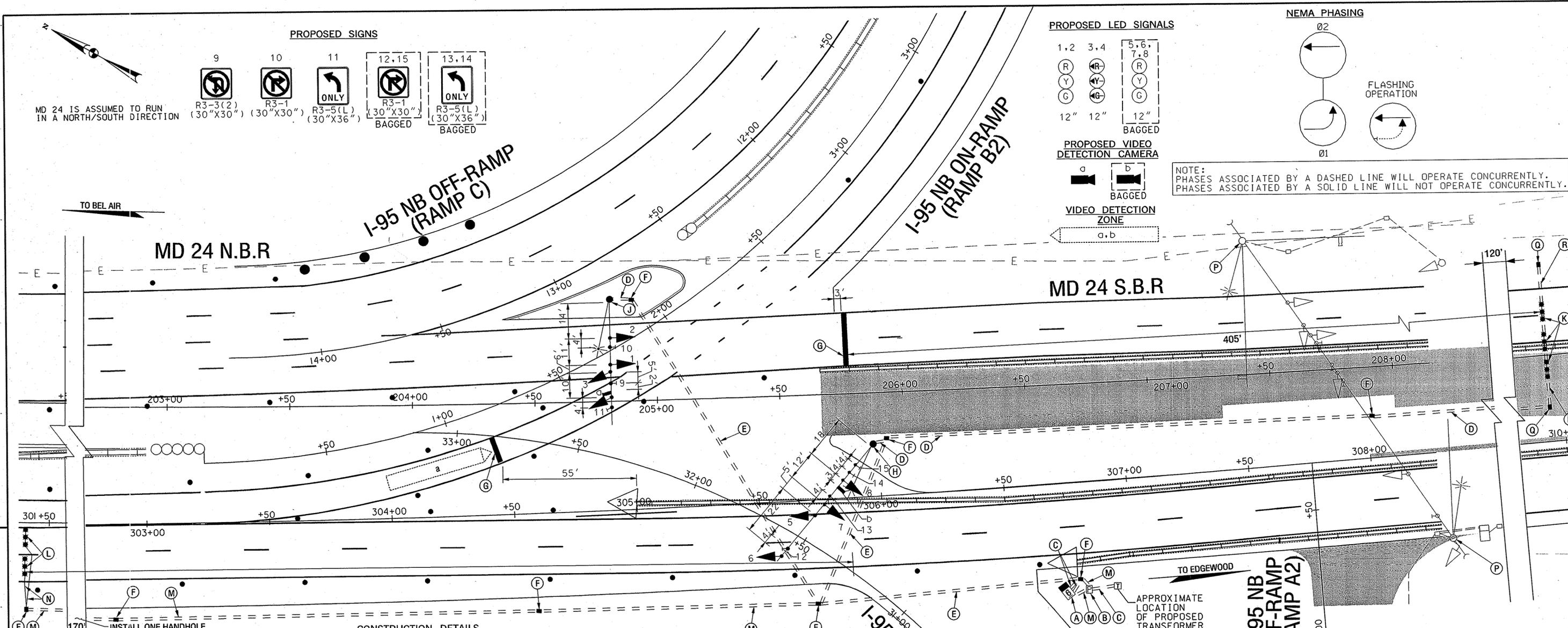
VIDEO DETECTION ZONE



NEMA PHASING



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



- CONSTRUCTION DETAILS**
- A. INSTALL A NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER (NOTE: TWO-4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS). STA 206+63, 82' RT.
 - B. INSTALL 200 AMP METERED SERVICE PEDESTAL (NOTE: ONE-4 IN. AND TWO-2 IN. SCHEDULE 80, 90-DEGREE CONDUIT BENDS IN PEDESTAL BASE).
 - C. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - D. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - E. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
 - F. INSTALL HANDHOLE.
 - G. INSTALL 24 IN. WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKING FOR STOP LINE.
 - H. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 60 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND OVERHEAD VIDEO DETECTION CAMERA MOUNTED ON MAST ARM, 20 FT. LIGHTING ARM AND 250 WATT HPS LUMINAIRE. (NOTE: TWO 3 IN. PVC SCHEDULE 80, 90 DEGREE CONDUIT BENDS) STA. 205+86, 20 FT. RT.
 - J. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 50 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND OVERHEAD VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (NOTE: TWO 3 IN. PVC SCHEDULE 80, 90 DEGREE CONDUIT BENDS) STA. 204+81, 45 FT. LT.
 - K. INSTALL NON-INVASIVE PROBES WITH 1000 FT. LEAD-IN CABLE. (TO BE PLACED IN FUTURE THRU LANE ONLY PER AS PER SHA STANDARD MD 815.03).
 - L. INSTALL MICRO-LOOP PROBE WITH 500 FT. LEAD IN CABLE.
 - M. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED
 - N. INSTALL 1 IN. GALVANIZED STEEL ELECTRICAL CONDUIT - TRENCHED (FOR DETECTOR SLEEVE)
 - P. REMOVE MAST ARMS, STEEL SUPPORTS, LIGHTING ARM, LUMINAIRE, SPAN WIRE, SIGNAL HEADS, SIGNS AND FOUNDATION 12" BELOW GRADE AND BACKFILL.
 - Q. INSTALL HANDHOLE WITH THE LONGER DIMENSION PERPENDICULAR TO THE TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES.
 - R. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.

- GENERAL NOTES**
1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA/OOTS ENGINEER.
 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
 4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
 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 818.02, MD 818.04 THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
 6. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER 2 WEEKS PRIOR TO BEGINNING SIGNAL WORK TO ARRANGE FOR SHA SIGNAL INSPECTION.
 7. INSTALL 10 FEET OF ADDITIONAL SLACK OF ELECTRICAL CABLE FOR SIGNAL HEAD NUMBERS 1,2,3 AND 4.
 8. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED, EXCEPT THE CONTROLLER UNIT AND AUXILIARY EQUIPMENT WITHIN THE CABINET, SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.

GEOMETRIC LEGEND

---	EXISTING
---	PROPOSED

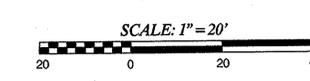
UTILITY LEGEND

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

MOT LEGEND

■	WORK ZONE
▶	TEMPORARY SIGN AND POST
◁	CRASH CUSHION SAND FILLED PLASTIC BARRIERS
●●●	TYPE III BARRICADE
●●●	DRUMS
▬▬▬	PRECAST TEMPORARY CONCRETE TRAFFIC BARRIER

- Q. INSTALL HANDHOLE WITH THE LONGER DIMENSION PERPENDICULAR TO THE TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES.
- R. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.



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APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DIVISION
ASST. CHIEF TRAFFIC ENGINEERING DIVISION
CHIEF TRAFFIC ENGINEERING DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

REVISIONS

NO.	DESCRIPTION

MOT STAGE: 4

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

MD 24 AT NORTHBOUND I-95 OFF-RAMP (RAMP A1)
 IMPROVEMENTS TO I-95 AND MD 24 INTERCHANGE
 ABINGDON, MARYLAND

TEMPORARY TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 08/2/06 CONTRACT NO. KH-271-000-002

DESIGNED BY A. MOHAMMEDSDU COUNTY HARFORD
 DRAWN BY M. RAFFLE LOGMILE
 CHECKED BY K. RINKER TIMS NO.
 FAP NO. NONE TOD NO.

TS NO. DRAWING **PSG** OF **P014** SHEET NO. 691 OF 889