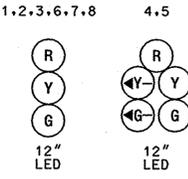


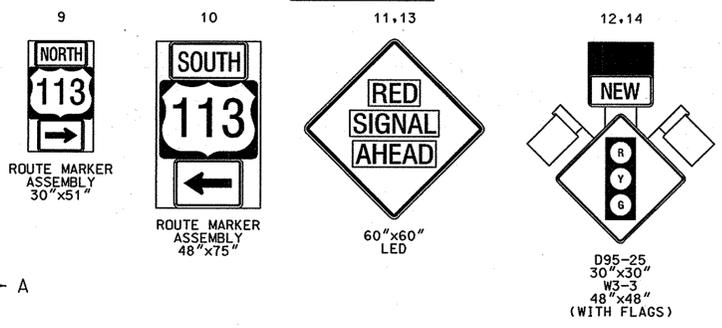
PROPOSED SIGNALS



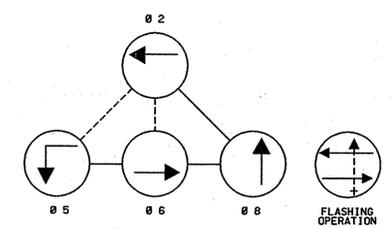
PROPOSED VIDEO DETECTION



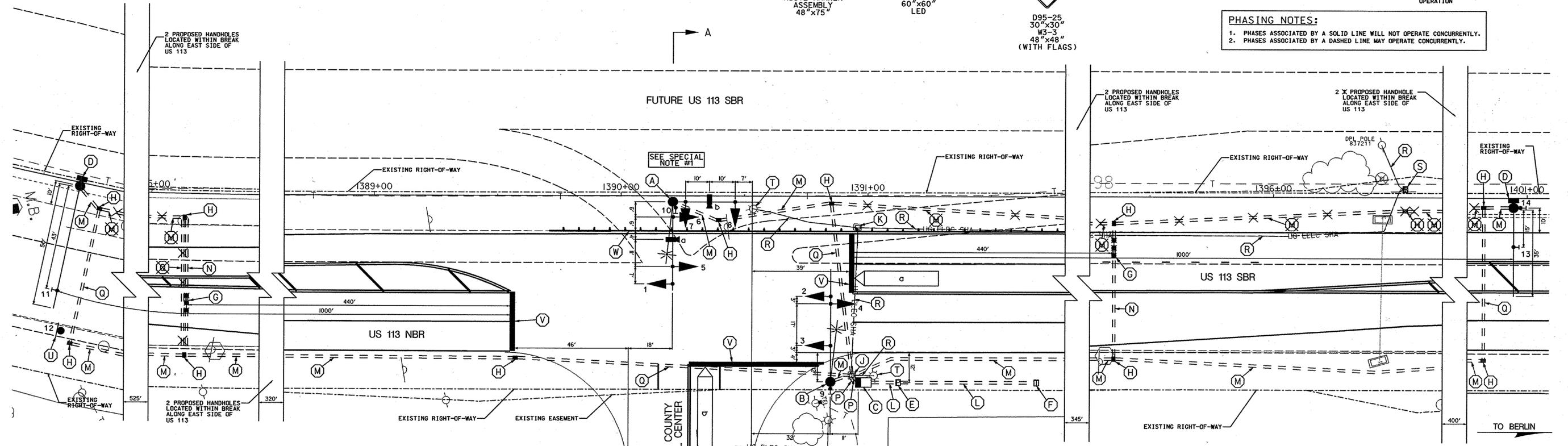
PROPOSED SIGNS



NEMA PHASING



PHASING NOTES:
 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

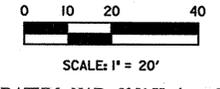
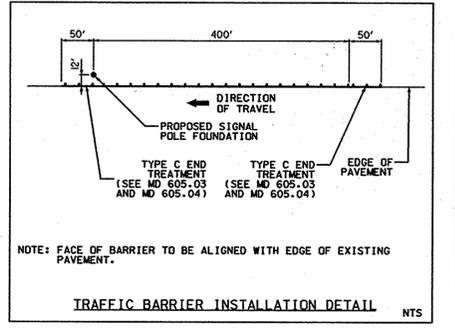
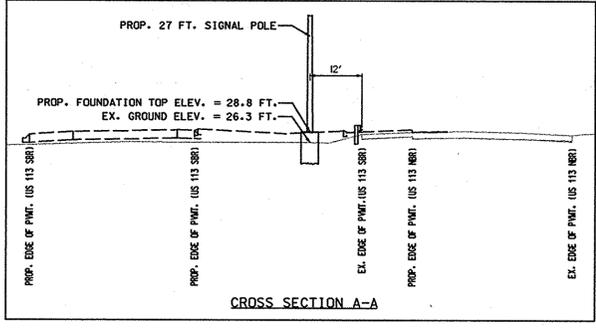
- A. INSTALL CONCRETE FOUNDATION WITH 27 FT. STEEL POLE WITH TWIN 50 FT. MAST ARMS (BOTH ARMS CUT TO 35 FT.), TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS, AND 20 FT. STREET LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE AND PHOTOCELL (INSTALL 1-2 IN. AND 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
- B. INSTALL CONCRETE FOUNDATION WITH 27 FT. STEEL POLE WITH SINGLE 50 FT. MAST ARM (CUT TO 45 FT.), TRAFFIC SIGNAL HEADS, SIGN, AND 20 FT. STREET LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE AND PHOTOCELL (INSTALL 1-2 IN. AND 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
- C. INSTALL CONCRETE FOUNDATION WITH NEMA SIZE "6" BASE MOUNTED CABINET AND DISCONNECT SWITCH (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE).
- D. INSTALL CONCRETE FOUNDATION WITH 27 FT. STEEL POLE (22 FT. "I" DIMENSION) WITH SINGLE 60 FT. MAST ARM (CUT TO SPECIFIED LENGTH), POLE MOUNTED C-TYPE CABINET, RELAY PACKAGE, AND SIGNS (1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).
- E. INSTALL 200 AMP METERED SERVICE PEDESTAL POLE (1-3 IN. AND 2-2-IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
- F. PROPOSED ELECTRICAL TRANSFORMER BASED (BY OTHERS).
- G. INSTALL MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN CABLE.
- H. INSTALL HANDHOLE.
- J. USE EXISTING HANDHOLE.
- K. REMOVE EXISTING HANDHOLE.
- L. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT FOR POWER FEED - TRENCHED.
- M. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.
- N. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED.
- P. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.
- Q. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED.
- R. CAP AND ABANDON EXISTING CONDUIT.
- S. REMOVE EXISTING SERVICE PEDESTAL.
- T. REMOVE EXISTING LIGHT POLE AND ALL ASSOCIATED WIRE AND EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE.
- U. INSTALL GROUND MOUNTED SIGN ON 2-4 IN. X 6 IN. WOOD SIGN SUPPORTS.
- V. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.
- W. INSTALL TRAFFIC BARRIER W-BEAM WITH TYPE C END TREATMENTS (SEE TRAFFIC BARRIER INSTALLATION DETAIL).

GENERAL NOTES

- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- 3. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- 4. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
- 5. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVELWAY FOR INSTALLATION OF NON-INVASIVE MICROLOOP PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND A MAXIMUM OF 3 IN. INTO HANDHOLE.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- 7. THE CONTRACTOR SHALL VERIFY ALL OVERHEAD AND UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- 8. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

SPECIAL NOTES

- 1. TOP OF POLE FOUNDATION ELEVATION AT STA. 1390+21 MUST BE FINISHED TO AN ELEVATION OF 29.0 TO ACCOMMODATE THE US 113 PHASE IV DUALIZATION PROJECT (W06355170). REFER TO CROSS SECTION A-A THIS SHEET. ALL OTHER SIGNAL EQUIPMENT TOP OF FOUNDATIONS TO BE FINISHED TO EXISTING GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, AND MD 818.02.



DATUM: NAD 83/91 Horizontal
 NAVD 88 Vertical
 GREEN LINE REVISION NO. 1:
 APPROVED: TEAM LEADER DATE 8/13/2008

GEOMETRIC LEGEND	
---	EXISTING
- - - -	PROPOSED

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

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

**US 113 (WORCESTER HIGHWAY) AND
 WORCESTER COUNTY EDUCATIONAL CENTER**

APPROVALS	REVISIONS
DERRICK DICKERSON TEAM LEADER 7/23/08	
RICHARD BAKER ASST. DIV. CHIEF 7/17/08	
RICHARD BAKER FOR WOODY HOOD DIVISION CHIEF 7/17/08	
TOM HICKS OFFICE DIRECTOR 7/23/08	

TRAFFIC SIGNALIZATION PLAN			
SCALE 1" = 20'	DATE AUGUST 1, 2008	CONTRACT NO. AT9095185	
DESIGNED BY BSH /JEH	COUNTY WORCESTER		
DRAWN BY CLY	LOGMILE 23011317.01		
CHECKED BY MAS	T.I.M.S. NO. J098		
F.A.P. NO.	T.O.D. NO.		
T.S. NO. 4671	SG-01 OF SG-02	SHEET NO. 1 OF 2	

**McCormick
 Engineers & Planners
 Taylor**
 Since 1946

509 South Exeter Street
 4th Floor
 Baltimore, Maryland 21202
 (410) 662-7400

BY: \$USER\$