MD 166 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED LED SIGNALS

1,2,5,6,7 — R, Y, G — 12"

3,4 — R, Y, G — 12"

PROPOSED "TERRA" VIDEO DETECTION CAMERAS

a,b

PROPOSED SIGNS

8 — Rolling Road / SOUTH 166 NORTH — M1-5(4) (78"x36")

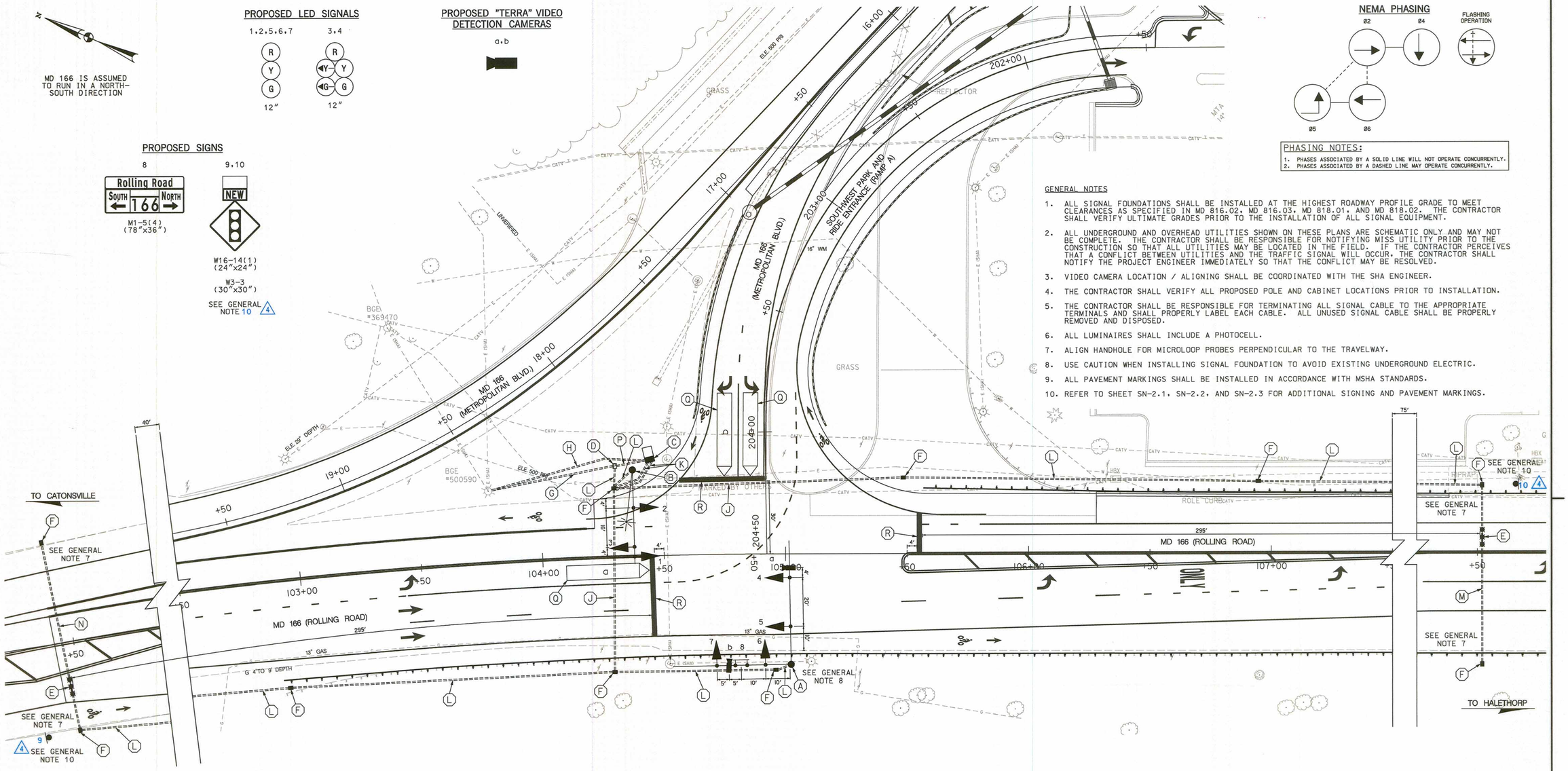
9,10 — NEW — W16-14(1) (24"x24") — W3-3 (30"x30")

SEE GENERAL NOTE 10 (4)

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.



GENERAL NOTES

1. ALL SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE HIGHEST ROADWAY PROFILE GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.02, MD 816.03, MD 818.01, AND MD 818.02. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
4. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE. ALL UNUSED SIGNAL CABLE SHALL BE PROPERLY REMOVED AND DISPOSED.
6. ALL LUMINAIRES SHALL INCLUDE A PHOTOCELL.
7. ALIGN HANDHOLE FOR MICROLOOP PROBES PERPENDICULAR TO THE TRAVELWAY.
8. USE CAUTION WHEN INSTALLING SIGNAL FOUNDATION TO AVOID EXISTING UNDERGROUND ELECTRIC.
9. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
10. REFER TO SHEET SN-2.1, SN-2.2, AND SN-2.3 FOR ADDITIONAL SIGNING AND PAVEMENT MARKINGS.

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION AND 27 FT. STEEL POLE WITH TWIN 50 FT. MAST ARMS, LED TRAFFIC SIGNAL HEADS, SIGN, AND VIDEO DETECTION CAMERA (MAST ARM MOUNT) (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE). STA 105+02, 42' RT.

B. INSTALL CONCRETE FOUNDATION AND 27 FT. STEEL POLE WITH 38 FT. MAST ARM, 20 FT. LIGHTING ARM WITH 250 WATT LUMINAIRE, AND LED TRAFFIC SIGNAL HEADS. (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE). STA 104+39, 35' LT.

(4) C. INSTALL CONCRETE FOUNDATION AND NEMA TYPE "S" BASE MOUNTED CABINET AND ASC III CONTROLLER WITH VIDEO DETECTION INTERFACE EQUIPMENT, FOUR CHANNEL TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIER, AND ALL ASSOCIATED EQUIPMENT (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE). STA 104+46, 41' LT

D. INSTALL 100 AMP METERED SERVICE PEDESTAL (1-4 IN. AND 2-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE). STA 1041+31, 37' LT.

E. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN CABLE.

F. INSTALL HANDHOLE.

G. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE BGE #500590 FOR USE BY OTHERS.

H. INSTALL 2 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE BGE #500590 FOR USE BY OTHERS.

J. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (BORED).

K. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).

L. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).

M. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (SLOTTED).

N. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (BORED).

P. INSTALL 2 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).

Q. ADJUST VIDEO DETECTION ZONE.

R. INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR STOPLINE.

0 10 20 40
SCALE: 1" = 20'

(4) ADDENDUM NO. 4 02/1/12

GEOMETRIC LEGEND	
	EXISTING
	PROPOSED

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

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BY: PNKenney

APPROVALS	
TEAM LEADER	4/16/2012
ASST. DIV. CHIEF	
DIVISION CHIEF	4/23
OFFICE DIRECTOR	

REVISIONS

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

MD 166 (ROLLING ROAD) AT I-195 SOUTHWEST PARK AND RIDE
CATONSVILLE, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE	1" = 20'	DATE	DECEMBER 13, 2011
CONTRACT NO.	BA1365187		
DESIGNED BY	BSH	COUNTY	BALTIMORE
DRAWN BY	CLY	LOGMILE	15016600.64
CHECKED BY	MAS	T.I.M.S. NO.	K682
F.A.P. NO.	SEE TITLE SHEET	T.O.D. NO.	N/A
T.S. NO.	4816	SG-01 OF SG-02	SHEET NO. 23 OF 33

PLOTTED: Wednesday, February 01, 2012 AT 11:13 AM
FILE: I:\9137 – district 4\16 – md 166 at I-95 (final design)\design\engineering\planset\pSG-P001_MD166.dgn