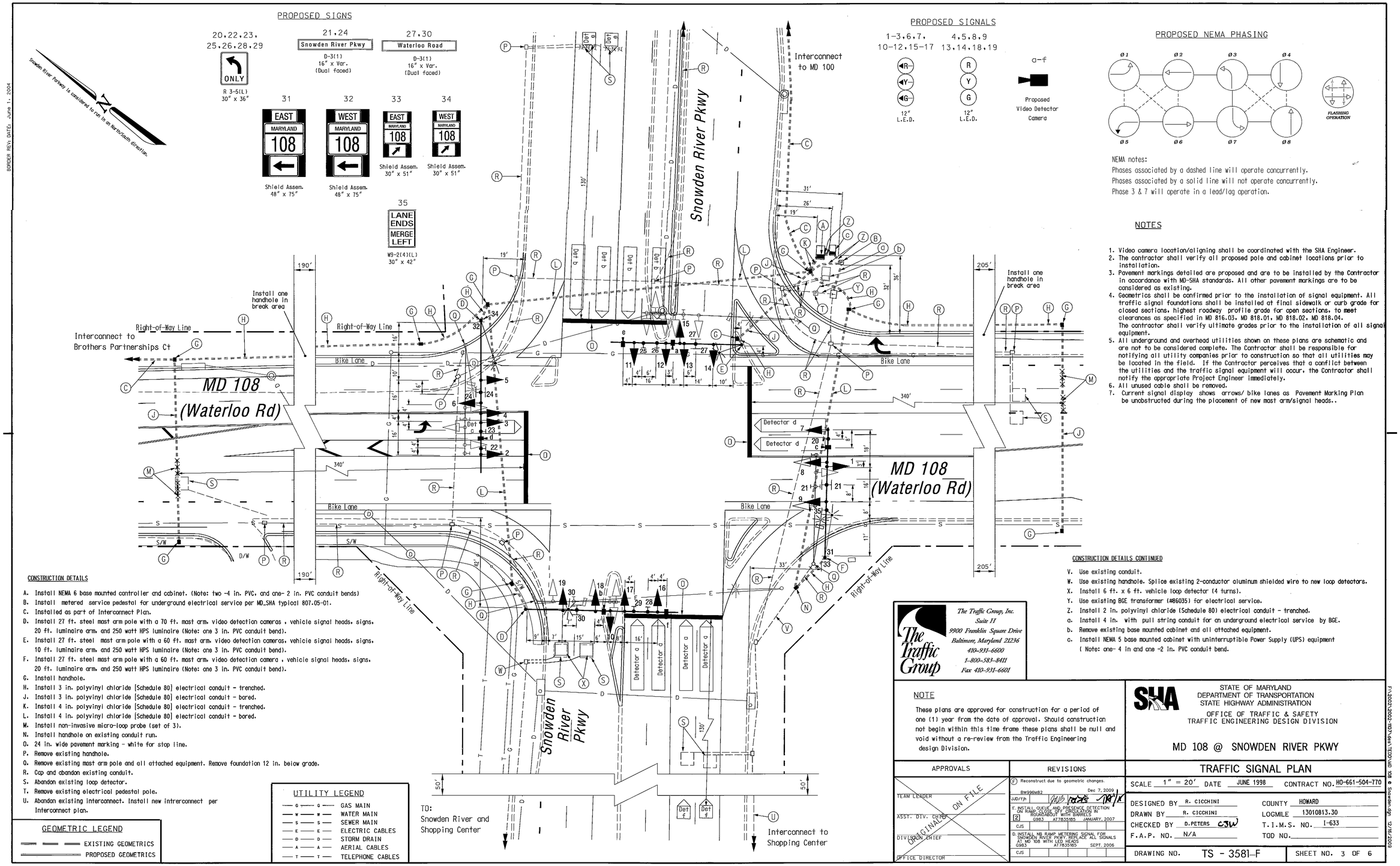

PROPOSED NEMA PHASING

NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.
Phase 3 & 7 will operate in a lead/lag operation.

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. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings are to be considered as existing.
4. Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at 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 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
5. All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.
6. All unused cable shall be removed.
7. Current signal display shows arrows/ bike lanes as Pavement Marking Plan be unobstructed during the placement of new mast arm/signal heads..

CONSTRUCTION DETAILS

A. Install NEMA 6 base mounted controller and cabinet. (Note: two -4 in. PVC, and one- 2 in. PVC conduit bends)
B. Install metered service pedestal for underground electrical service per MD_SHA typical 807.05-01.
C. Installed as part of Interconnect Plan.
D. Install 27 ft. steel mast arm pole with a 70 ft. mast arm, video detection cameras , vehicle signal heads, signs, 20 ft. luminaire arm, and 250 watt HPS luminaire (Note: one 3 in. PVC conduit bend).
E. Install 27 ft. steel mast arm pole with a 60 ft. mast arm, video detection cameras, vehicle signal heads, signs, 10 ft. luminaire arm, and 250 watt HPS luminaire (Note: one 3 in. PVC conduit bend).
F. Install 27 ft. steel mast arm pole with a 60 ft. mast arm, video detection camera , vehicle signal heads, signs, 20 ft. luminaire arm, and 250 watt HPS luminaire (Note: one 3 in. PVC conduit bend).
G. Install handhole.
H. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
J. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
K. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
L. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
M. Install non-invasive micro-loop probe (set of 3).
N. Install handhole on existing conduit run.
O. 24 in. wide pavement marking - white for stop line.
P. Remove existing handhole.
Q. Remove existing mast arm pole and all attached equipment. Remove foundation 12 in. below grade.
R. Cap and abandon existing conduit.
S. Abandon existing loop detector.
T. Remove existing electrical pedestal pole.
U. Abandon existing interconnect. Install new intrerconnect per Interconnect plan.

CONSTRUCTION DETAILS CONTINUED

V. Use existing conduit.
W. Use existing handhole. Splice existing 2-conductor aluminum shielded wire to new loop detectors.
X. Install 6 ft. x 6 ft. vehicle loop detector (4 turns).
Y. Use existing BGE transformer (#86035) for electrical service.
Z. Install 2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
a. Install 4 in. with pull string conduit for an underground electrical service by BGE.
b. Remove existing base mounted cabinet and all attached equipment.
c. Install NEMA 5 base mounted cabinet with uninterruptible Power Supply (UPS) equipment (Note: one- 4 in and one -2 in. PVC conduit bend.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
D	STORM DRAIN
A	AERIAL CABLES
T	TELEPHONE CABLES

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NOTE

These plans are approved for construction for a period of one (1) year from the date of approval. Should construction not begin within this time frame these plans shall be null and void without a re-review from the Traffic Engineering design Division.

APPROVALS	REVISIONS
TEAM LEADER	E. Reconstruct due to geometric changes. BW996M82 Dec 7, 2009 JED/rp
ASST. DIV. CHIEF	F. INSTALL QUEUE AND PRESENCE DETECTION ON RAMP CLOSE OFF CONSTRUCTION IN ROUNDABOUT WITH BARRILS 2 G983 AT783485 JANUARY, 2007 CJS
DIVISION CHIEF	D. INSTALL NB RAMP METERING SIGNAL FOR SNOWDEN RIVER PKWY REPLACE ALL SIGNALS AT MD 108 WITH LED HEADS G983 AT783485 SEPT. 2006 CJS
OFFICE DIRECTOR	

ORIGINALS ON FILE

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

MD 108 @ SNOWDEN RIVER PKWY

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE JUNE 1998 CONTRACT NO. HO-661-504-770

DESIGNED BY R. CICCHINI
DRAWN BY R. CICCHINI
CHECKED BY D.PETERS CJW
F.A.P. NO. N/A
COUNTY HOWARD
LOGMILE 13010813.30
T.I.M.S. NO. I-633
TOD NO.

DRAWING NO. TS - 3581-F
SHEET NO. 3 OF 6

BORDER REV: DATE: June 1, 2004

F:\2002\32002-1807\Rev\TEDD\MD 108 @ Snowden.dgn 12/16/2009