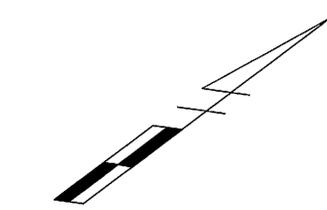


DRILL HOLES

DRILL HOLES

DRILL HOLES

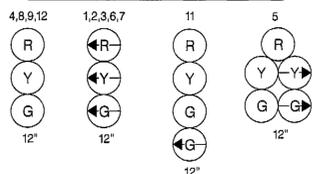


MD 713 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

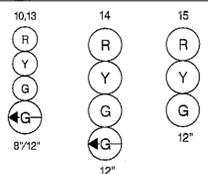
**PROPOSED VIDEO DETECTION CAMERAS**



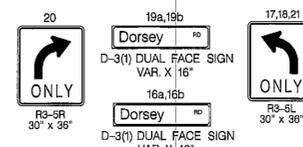
**EXISTING L.E.D. SIGNALS**



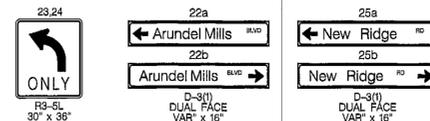
**PROPOSED L.E.D. SIGNALS**



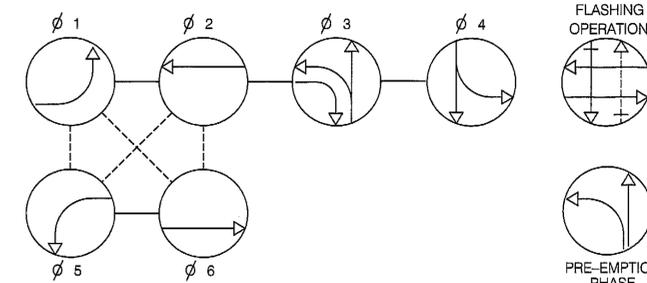
**EXISTING SIGNS**



**PROPOSED SIGNS**

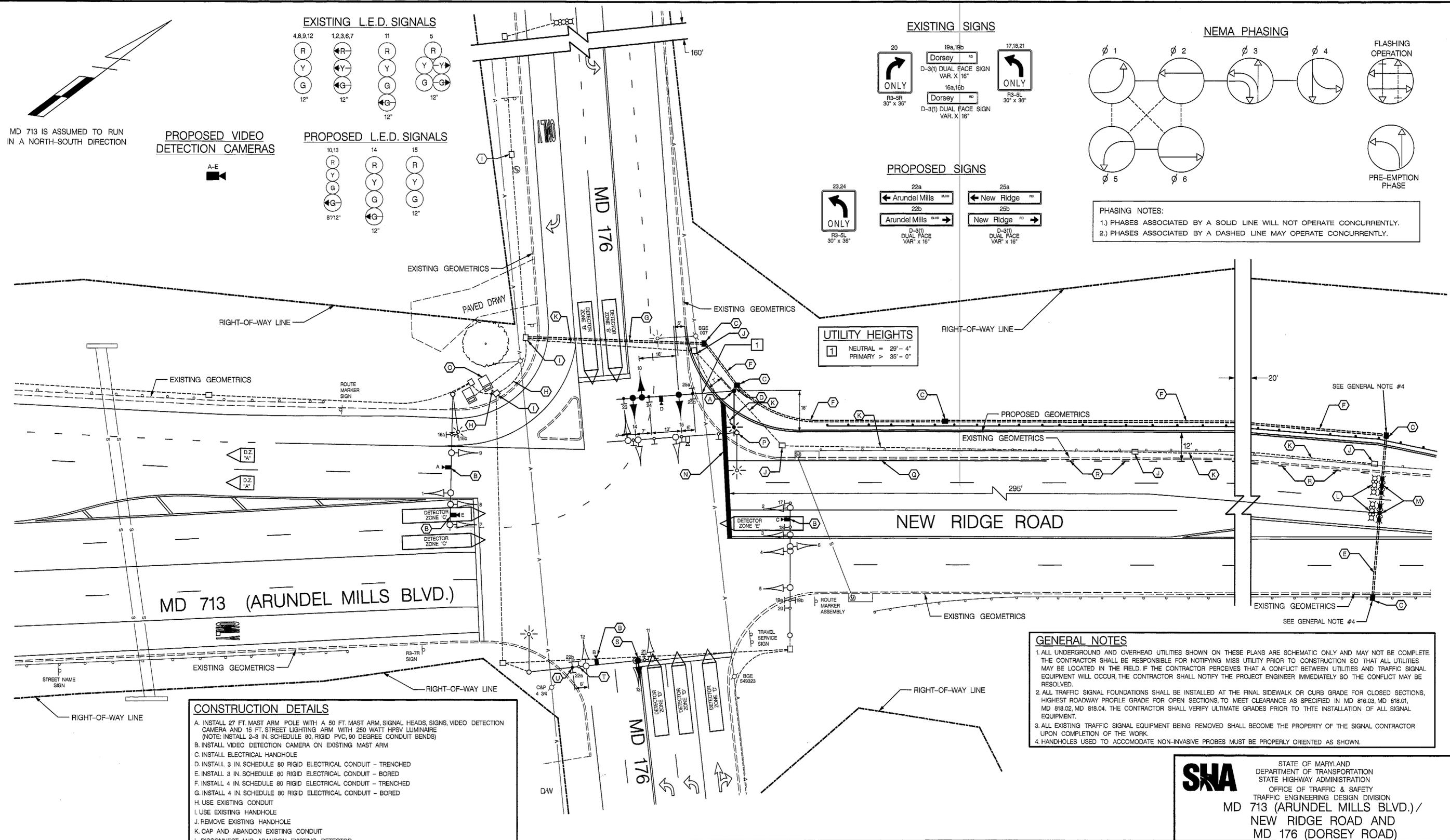


**NEMA PHASING**



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

**UTILITY HEIGHTS**  
 1 NEUTRAL = 29' - 4"  
 PRIMARY > 35' - 0"



**CONSTRUCTION DETAILS**

- A. INSTALL 27 FT. MAST ARM POLE WITH A 50 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA AND 15 FT. STREET LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE (NOTE: INSTALL 2-3 IN. SCHEDULE 80, RIGID PVC, 90 DEGREE CONDUIT BENDS)
- B. INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM
- C. INSTALL ELECTRICAL HANDHOLE
- D. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- E. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED
- F. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- G. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED
- H. USE EXISTING CONDUIT
- I. USE EXISTING HANDHOLE
- J. REMOVE EXISTING HANDHOLE
- K. CAP AND ABANDON EXISTING CONDUIT
- L. DISCONNECT AND ABANDON EXISTING DETECTOR
- M. INSTALL NON-INVASIVE MICRO-LOOP PROBE WITH LEAD-IN CABLE
- N. INSTALL 24 IN. SOLID WHITE, HEAT APPLIED, PERMANENT PREFORMED PAVEMENT MARKING LINE
- O. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER
- P. REMOVE EXISTING POLE, MAST ARM AND ASSOCIATED EQUIPMENT
- Q. INSTALL 5 IN. SOLID WHITE, HEAT APPLIED, PERMANENT PREFORMED PAVEMENT MARKING LINE
- R. INSTALL 5 IN. SKIP WHITE, HEAT APPLIED, PERMANENT PREFORMED PAVEMENT MARKING LINE (3 FT. LINE - 9 FT. GAP)
- S. REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW SIGNAL HEAD IN SAME LOCATION. USE EXISTING WIRING
- T. REMOVE EXISTING D-3(1) SIGN FROM MAST ARM
- U. INSTALL SIGN AS SHOWN ON EXISTING MAST ARM

**LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES**

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

**GENERAL NOTES**

1. 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 CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
2. 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 CLEARANCE 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.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT BEING REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE WORK.
4. HANDHOLES USED TO ACCOMMODATE NON-INVASIVE PROBES MUST BE PROPERLY ORIENTED AS SHOWN.

**TRAFFIC CONCEPTS INC.**  
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 (410) 923-7101  
 FAX (410) 923-6473  
 EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

APPROVALS	REVISIONS
<p>TEAM LEADER</p> <p>ASST. DIV. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>REPLACE EQUIPMENT DUE TO WIDENING ON SOUTHBOUND MD 713 (8-8-11)</p> <p>REPLACE EQUIPMENT DUE TO WIDENING ON EASTBOUND 713</p> <p>REPLACE EQUIPMENT DUE TO WIDENING ON WESTBOUND 176 FOR DOUBLE LEFT TURN</p>

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

**MD 713 (ARUNDEL MILLS BLVD.) / NEW RIDGE ROAD AND MD 176 (DORSEY ROAD)**

**TRAFFIC SIGNAL PLAN**

SCALE 1" = 20' DATE 10-01-92 CONTRACT NO. AA682-501-570

DESIGNED BY C. JEDNORSKI COUNTY ANNE ARUNDEL  
 DRAWN BY C. JEDNORSKI LOGMILE 02071303.05  
 CHECKED BY D. DODA T.I.M.S. NO.  
 F.A.P. NO. TOD NO.

DRAWING NO. TS 3227 E SHEET NO. 1 OF 2

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