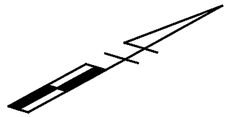
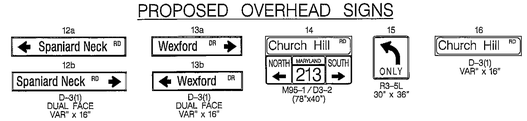
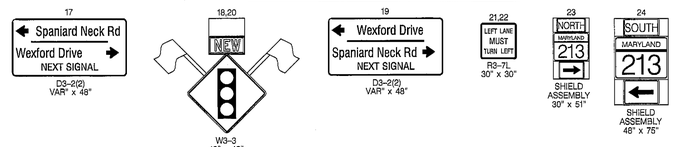


MD 213 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

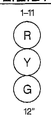
## PROPOSED OVERHEAD SIGNS



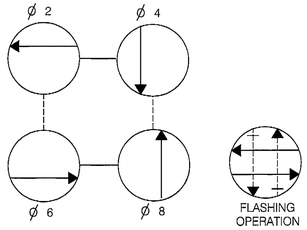

## PROPOSED GROUND MOUNTED SIGNS



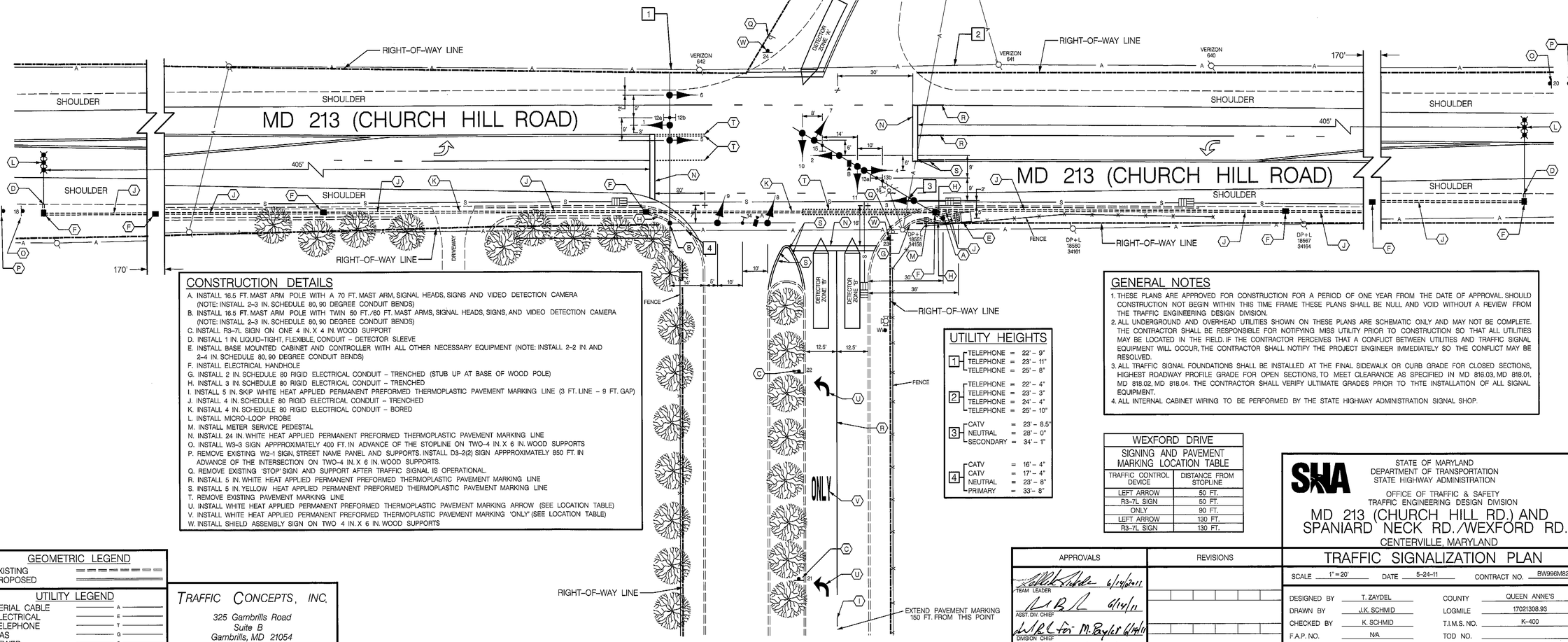

## PROPOSED L.E.D. SIGNAL HEADS




## 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 16.5 FT. MAST ARM POLE WITH A 70 FT. MAST ARM, SIGNAL HEADS, SIGNS AND VIDEO DETECTION CAMERA (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
B. INSTALL 16.5 FT. MAST ARM POLE WITH TWIN 50 FT./60 FT. MAST ARMS, SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
C. INSTALL R3-7L SIGN ON ONE 4 IN. X 4 IN. WOOD SUPPORT
D. INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, CONDUIT - DETECTOR SLEEVE
E. INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL OTHER NECESSARY EQUIPMENT (NOTE: INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
F. INSTALL ELECTRICAL HANDHOLE
G. INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED (STUB UP AT BASE OF WOOD POLE)
H. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
I. INSTALL 5 IN. SKIP WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE - 9 FT. GAP)
J. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
K. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED
L. INSTALL MICRO-LOOP PROBE
M. INSTALL METER SERVICE PEDESTAL
N. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
O. INSTALL W3-3 SIGN APPPROXIMATELY 400 FT. IN ADVANCE OF THE STOPLINE ON TWO-4 IN. X 6 IN. WOOD SUPPORTS
P. REMOVE EXISTING W2-1 SIGN, STREET NAME PANEL AND SUPPORTS. INSTALL D3-2(2) SIGN APPPROXIMATELY 850 FT. IN ADVANCE OF THE INTERSECTION ON TWO-4 IN. X 6 IN. WOOD SUPPORTS.
Q. REMOVE EXISTING 'STOP' SIGN AND SUPPORT AFTER TRAFFIC SIGNAL IS OPERATIONAL.
R. INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
S. INSTALL 5 IN. YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
T. REMOVE EXISTING PAVEMENT MARKING LINE
U. INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW (SEE LOCATION TABLE)
V. INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING 'ONLY' (SEE LOCATION TABLE)
W. INSTALL SHIELD ASSEMBLY SIGN ON TWO 4 IN. X 6 IN. WOOD SUPPORTS

## UTILITY HEIGHTS

| | | |
|---|---|---|
| 1 | TELEPHONE | = 22' - 9" |
| | TELEPHONE | = 23' - 11" |
| | TELEPHONE | = 25' - 8" |
| 2 | TELEPHONE | = 22' - 4" |
| | TELEPHONE | = 23' - 3" |
| | TELEPHONE | = 24' - 4" |
| | TELEPHONE | = 25' - 10" |
| 3 | CATV | = 23' - 8.5" |
| | NEUTRAL | = 28' - 0" |
| | SECONDARY | = 34' - 1" |
| 4 | CATV | = 16' - 4" |
| | CATV | = 17' - 4" |
| | NEUTRAL | = 23' - 8" |
| | PRIMARY | = 33' - 8" |

## GENERAL NOTES

1. THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME THESE PLANS SHALL BE NULL AND VOID WITHOUT A REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.
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 CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE RIELD. 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.
3. 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 THTE INSTALLATION OF ALL SIGNAL EQUIPMENT.
4. ALL INTERNAL CABINET WIRING TO BE PERFORMED BY THE STATE HIGHWAY ADMINISTRATION SIGNAL SHOP.

## WEXFORD DRIVE

SIGNING AND PAVEMENT MARKING LOCATION TABLE

| TRAFFIC CONTROL DEVICE | DISTANCE FROM STOPLINE |
|---|---|
| LEFT ARROW | 50 FT. |
| R3-7L SIGN | 50 FT. |
| ONLY | 90 FT. |
| LEFT ARROW | 130 FT. |
| R3-7L SIGN | 130 FT. |

## GEOMETRIC LEGEND

EXISTING
PROPOSED

## UTILITY LEGEND

| | |
|---|---|
| AERIAL CABLE | A |
| ELECTRICAL | E |
| TELEPHONE | T |
| GAS | G |
| SEWER | S |
| WATER | W |
| CABLE TV | TV |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Gambrills, MD 21054
(410) 923-7101
FAX: (410) 923-6473
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM


| APPROVALS | REVISIONS |
|---|---|
| TEAM LEADER 6/14/2011 | |
| ASST. DIV. CHIEF 6/14/11 | |
| DIVISION CHIEF for M. Paylet 6/14/11 | |
| OFFICE DIRECTOR T. H. 6/13/11 | |

FILE PATH: M:\2000\2044\SIGNAL\3-11-11.dgn
DATE: Friday, June 10, 2011 AT 08:53 AM

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

# MD 213 (CHURCH HILL RD.) AND SPANIARD NECK RD./WEXFORD RD.

CENTERVILLE, MARYLAND

## TRAFFIC SIGNALIZATION PLAN

| | | | |
|---|---|---|---|
| SCALE | 1"=20' | DATE | 5-24-11 |
| CONTRACT NO. | BW996M82 | | |
| DESIGNED BY | T. ZAYDEL | COUNTY | QUEEN ANNE'S |
| DRAWN BY | J.K. SCHMID | LOGMILE | 17021308.93 |
| CHECKED BY | K. SCHMID | T.I.M.S. NO. | K-400 |
| F.A.P. NO. | N/A | TOD NO. | |
| DRAWING NO. | TS - 4787 | SHEET NO. | 1 OF 2 |