



**AERIAL CABLE DETAIL**

|              |         |
|--------------|---------|
| PRIMARY      | 38' 4"  |
| PRIM NEUTRAL | 31' 4"  |
| TELEPHONE    | 25' 2"  |
| CABLE        | 23' 5"  |
| TELEPHONE    | 21' 10" |
| GRADE        |         |

**AERIAL CABLE DETAIL**

|              |         |
|--------------|---------|
| PRIMARY      | 35' 4"  |
| PRIM NEUTRAL | 28' 4"  |
| TELEPHONE    | 22' 10" |
| CABLE        | 20' 10" |
| GRADE        |         |

**CONSTRUCTION DETAILS**

- INSTALL 21 FT. STEEL POLE (CUT FROM A 27 FT.) WITH A 50 FT. MAST ARM, SIGNAL HEADS, VIDEO DETECTOR CAMERA, AND RELOCATED EXISTING SIGN(#9). (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL 21 FT. STEEL POLE (CUT FROM A 27 FT.) WITH A 50 FT. MAST ARM, SIGNAL HEADS, VIDEO DETECTOR CAMERA, AND RELOCATED EXISTING SIGNS(#11, #12). (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET. (NOTE: TWO-4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- INSTALL METERED SERVICE PEDESTAL FOR UNDERGROUND ELECTRICAL SERVICE.
- INSTALL HANDHOLE.
- INSTALL HANDHOLE ON EXISTING CONDUIT RUN.
- INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED IN ROADWAY BEFORE FINAL ROADWAY SURFACE.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR AN UNDERGROUND ELECTRICAL - BORED.
- INSTALL 3 IN. CONDUIT FOR PHONE SERVICE BY VERIZON (TO BE DETERMINED IN THE FIELD) - TRENCHED.
- INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- INSTALL NON-INVASIVE MICRO-LOOP PROBE (SET OF 3).
- INSTALL GROUND MOUNTED SIGN.
- USE EXISTING STEEL POLE. REPLACE/REWIRE VIDEO DETECTION, REWIRE EXISTING SIGNAL HEAD(#3), AND LUMINAIRE. [1]
- USE EXISTING STEEL POLE. INSTALL 20 FT. LUMINAIRE ARM WITH 250 WATT HPS LUMINAIRE, 2 IN. WEATHERHEAD, AND VIDEO DETECTION. REWIRE SIGNAL HEAD(#7) AND NEW VIDEO DETECTION.
- USE EXISTING HANDHOLE.
- USE EXISTING HANDHOLE. PULL BACK EXISTING MICROLOOP PROBE AND RUN IN NEW CONDUIT BACK TO NEW CABINET PRIOR TO INSTALLATION OF NEW SIGNAL POLE FOUNDATION.
- USE EXISTING CONDUIT.
- REMOVE EXISTING CABINET/CONTROLLER AND ALL ATTACHED EQUIPMENT.
- REMOVE EXISTING STEEL POLE AND ALL ATTACHED EQUIPMENT. RELOCATE SIGNS AS SHOWN. REMOVE FOUNDATION TO 12 IN. BELOW GRADE.
- REMOVE EXISTING HANDHOLE.
- CAP AND ABANDON EXISTING CONDUIT.
- ABANDON EXISTING MICROLOOP PROBE.
- EXISTING POWER SERVICE TO BE DISCONNECTED AFTER NEW SERVICE AND SIGNAL ARE INSTALLED AND OPERATIONAL.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR AN UNDERGROUND ELECTRICAL SERVICE BY POTOMAC EDISON ELECTRIC - HAND TRENCHED DUE TO UTILITIES (NOTE: RUN CONDUIT DIRECTLY TO UTILITY POLE).

**GENERAL NOTES**

- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- 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.
- 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.
- 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.
- ALL UNUSED CABLE SHALL BE REMOVED.
- THE CONTRACTOR SHALL CONTACT ED RODENHIZER [(410) 787-7650] 72 HOURS PRIOR TO CONSTRUCTION.

Redline Revision  
May 1, 2012

**SHA** MDOT - SHA  
O.O.T.S.  
S.H.A. Approval Date  
TS# 3664-C TMS# J-100

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

MD 85 (BUCKEYSTOWN PK.) AT ENGLISH MUFFIN WAY

The Traffic Group, Inc.  
Suite H  
9900 Franklin Square Drive  
Baltimore, Maryland 21236  
410-931-6600  
1-800-583-8411  
Fax 410-931-6601  
"Merging Innovation and Excellence"®

**GEOMETRIC LEGEND**

|     |          |
|-----|----------|
| --- | EXISTING |
| --- | PROPOSED |

**UTILITY LEGEND**

|    |                  |
|----|------------------|
| SD | STORM DRAIN      |
| G  | GAS MAIN         |
| W  | WATER MAIN       |
| S  | SEWER MAIN       |
| E  | ELECTRIC CABLES  |
| A  | AERIAL CABLES    |
| T  | TELEPHONE CABLES |
| F  | FIBER-OPTIC      |

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF 1 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.

**APPROVALS**

|                  |  |
|------------------|--|
| TEAM LEADER      |  |
| ASST. DIR. CHIEF |  |
| DIVISION CHIEF   |  |
| OFFICE DIRECTOR  |  |

ORIGINAL ON FILE

**REVISIONS**

|   |   |                |
|---|---|----------------|
| C | PARTIAL RECONSTRUCT DUE TO WIDENING.  | August 7, 2008 |
| B | TRAFFIC SIGNAL MODIFICATION NEW GEOMETRICS ON WEST LEG OF INTERSECTION SHA No. C28879 | SEPTEMBER 2008 |
| A | TRAFFIC SIGNAL MODIFICATION   | AUGUST 2, 2004 |

**TRAFFIC SIGNAL PLAN**

SCALE 1" = 20' DATE APRIL 7, 2008 CONTRACT NO. \_\_\_\_\_

DESIGNED BY T. ZAYDEL COUNTY FREDERICK  
DRAWN BY T. ZAYDEL LOGMILE 10085007.25  
CHECKED BY K. SCHMID'S. RENZI TMS NO. J100  
F.A.P. NO. N/A TOD NO. \_\_\_\_\_

TS NO. 3664-C DRAWING SG-1 OF 1 SHEET NO. 1 OF 2