

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF AN EMERGENCY-VEHICLE (FIREHOUSE) TRAFFIC CONTROL SIGNAL AT MD 648 & McGUIRK DRIVE AND THE REMOVAL OF THE EXISTING FIREHOUSE TRAFFIC SIGNAL AT MD 648 & SUMMIT AVE. IN ANNE ARUNDEL COUNTY. MD 648 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A FLASHING MODE WITH MD 648 APPROACHES FLASHING 8" YELLOW AND THE McGUIRK DRIVE /FIREHOUSE ENTRANCE APPROACHES FLASHING RED. WHEN ACTIVATED BY THE FIREHOUSE PUSHBUTTON THE FIREHOUSE APPROACH WILL CHANGE TO AN 8" FLASHING YELLOW AND ALL OTHER APPROACHES WILL CHANGE TO SOLID RED.

SPECIAL NOTES

1. THE REMOVAL OF THE EXISTING TRAFFIC SIGNAL SHALL NOT BEGIN UNTIL THE NEW TRAFFIC SIGNAL IS OPERATIONAL.
2. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.
3. FIREHOUSE INTERNAL WIRING, CONDUITS AND PUSHBUTTONS WILL BE INSTALLED AS PART OF THE BUILDING SITE PROJECT PLANS. REFER TO ANNE ARUNDEL COUNTY DPW PROJECT# F529600 /CONTRACT# F529601.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1003
 MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1002

MR. JOE HORTY ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 841-1039

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630
 MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631
 MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

QUANTITY DESCRIPTION

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY DESCRIPTION

| | |
|--------|--|
| LS | MAINTENANCE OF TRAFFIC |
| 130 LF | 5 INCH HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKING |
| 150 LF | 5 INCH HEAT APPLIED YELLOW THERMOPLASTIC PAVEMENT MARKING |
| 40 LF | REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH |
| 80 LF | 24 IN. WHITE HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS |
| 16 EA | 12 INCH LED SIGNAL HEAD SECTION |
| 6 EA | 8 INCH LED SIGNAL HEAD SECTION |
| 1 EA | 16.5 FT. MAST ARM POLE & 70 FT. MAST ARM |
| LS | REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT |
| 20 LF | 2 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED |
| 70 LF | 3 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED |
| 20 LF | 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED |
| 30 LF | WOOD SIGN SUPPORTS 4 IN. X 4 IN. |
| 32 LF | WOOD SIGN SUPPORTS 4 IN. X 6 IN. |
| 20 LF | NO. 6 AWG STRANDED BARE COPPER GROUND WIRE |
| 1 EA | METERED SERVICE PEDESTAL |
| 60 LF | ELECTRICAL CABLE 1 - CONDUCTOR NO. 8 AWG - THHN /THWN (3 WIRES) |
| 2 EA | ELECTRICAL HANDHOLE |
| 500 LF | ELECTRICAL CABLE 3 - CONDUCTOR (NO 14 AWG) |
| 75 LF | ELECTRICAL CABLE 5 - CONDUCTOR (NO 14 AWG) |
| 225 LF | ELECTRICAL CABLE 7 - CONDUCTOR (NO 14 AWG) |
| 1 EA | CONTROLLER AND CABINET - BASE MOUNT * |
| 7 CY | CONCRETE FOUNDATION FOR SIGNAL |
| 3 EA | 3/4 IN. X 10 FT. GROUND ROD |
| 2 EA | W11-8(1) (48" X 24") SIGN - MAST ARM MOUNT |
| 2 EA | R10-6A (24" X 30") SIGN - GROUND MOUNT |
| 2 EA | W11-9 (36" X 36") SIGN - GROUND MOUNT |

* THE CONTRACTOR SHALL DELIVER THE CONTROLLER AND CABINET TO THE SHA SIGNAL SHOP FOR TESTING PRIOR TO FIELD INSTALLATION.

EQUIPMENT LIST "C"

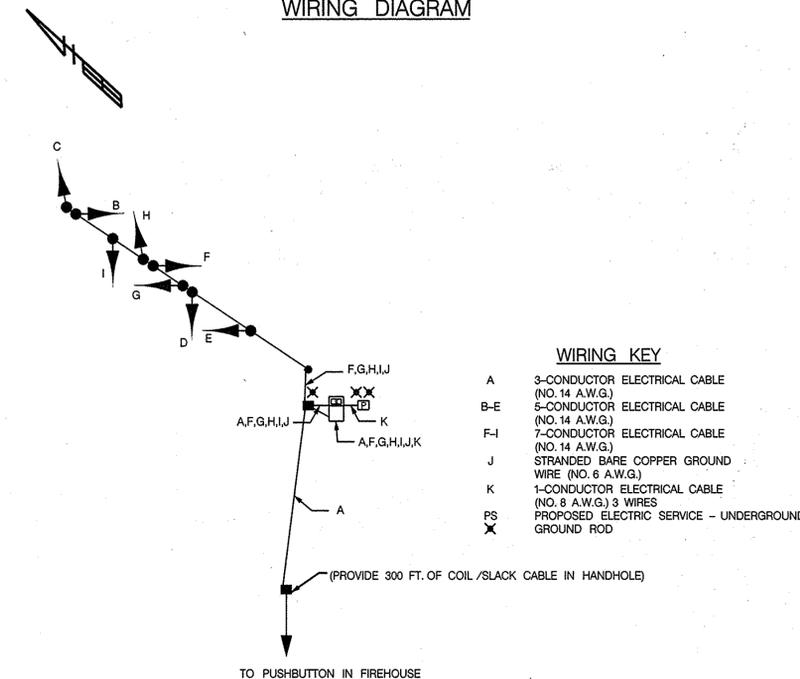
C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO. QUANTITY DESCRIPTION

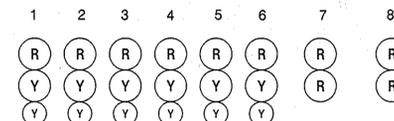
NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASING CHART



| | | | | | | | | | | |
|-------------------------|------|------|------|------|------|------|---------------|---------------|--|--|
| | 8" | 8" | 8" | 8" | 12" | 12" | 12" | 12" | | |
| NORMAL OPERATION | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R (BOTTOM) | FL/R (BOTTOM) | | |
| PRE-EMPTION QUICK FLASH | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R (BOTTOM) | FL/R (BOTTOM) | | |
| PRE-EMPTION WARNING | Y | Y | Y | Y | Y | Y | FL/R (TOP) | FL/R (TOP) | | |
| PRE-EMPTION PHASE | R | R | R | R | FL/Y | FL/Y | FL/R (TOP) | FL/R (TOP) | | |
| PRE-EMPTION CLEARANCE | R | R | R | R | Y | Y | FL/R (TOP) | FL/R (TOP) | | |

SHA No: BW387M84
 MD 648E @ McGuirk Drive and Summit Avenue

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
 Suite E
 Gambrills, MD 21054
 (410) 923-7101
 FAX: (410) 923-6473
 EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

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

GENERAL INFORMATION PLAN
 MD 648 AND McGUIRK DRIVE /
 MARLEY FIRE STATION

SCALE NONE DATE 5-2-08 CONTRACT NO. BW996M82

DESIGNED BY J.K. SCHMID COUNTY ANNE ARUNDEL
 DRAWN BY J.K. SCHMID LOGMILE
 CHECKED BY S. RENZI T.I.M.S. NO. I-752
 F.A.P. NO. N/A TOD NO.

DRAWING NO. TS-3076A GI SHEET NO. 2 OF 3