

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 175 AND LLEWELLYN AVE/BLUE WATER BLVD. IN ANNE ARUNDEL COUNTY. THE WORK WILL CONSIST OF NEW CURB AND GUTTER ALONG THE NORTHEAST CORNER WITH NEW ADA SIDEWALKS, RAMPS AND APS SIGNAL EQUIPMENT. MD 175 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, SEMI-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR BOTH DIRECTIONS OF MD 175 AND SIDE STREET SPLIT PHASING. THE ALTERNATE PEDESTRIAN PHASE FOR THE SOUTH LEG OF MD 175 AND THE CONCURRENT PEDESTRIAN PHASES FOR THE EAST AND WEST LEGS OF THE INTERSECTION WILL REMAIN. THE INSTALLATION OF NEW APS PEDESTRIAN EQUIPMENT AND PUSHBUTTONS WILL BE IN PLACE FOR THE EAST LEG PEDESTRIAN CROSSING.

APS NOTES

TO, CROSS BLUE WATER BLVD.

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS BLUE WATER BOULEVARD AT ANNAPOLIS ROAD"
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE

EQUIPMENT LIST "A"

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

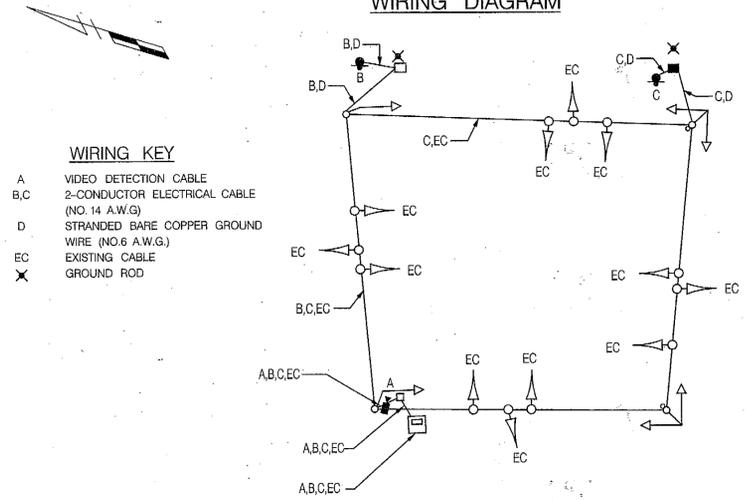
| ITEM NO. | QUANTITY | DESCRIPTION |
|----------|----------|-------------|
| NONE | | |

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 |
| LS | MOBILIZATION |
| 2 CY | TEST PIT EXCAVATION |
| 180 LF | 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING |
| 36 LF | 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING |
| LS | REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT |
| 40 LF | REMOVE AND GRIND EXISTING PAVEMENT MARKING LINE |
| 2 CY | CONCRETE FOUNDATION FOR SIGNAL STRUCTURE |
| 2 EA | CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE |
| 2 EA | *AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND SIGNS (SEE GENERAL NOTES NO.6) |
| 2 EA | 10 FT. BREAKAWAY PEDESTAL POLE WITH TRANSFORMER BASE |
| 1 EA | VIDEO DETECTION CAMERA WITH 100 FT. LEAD-IN (ECONOLITE TERRA TYPE) |
| 1 EA | VIDEO INTERFACE EQUIPMENT RACK |
| 30 LF | 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED |
| 60 LF | STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) |
| 500 LF | 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) |
| 2 EA | 3/4 IN. X 10 FT. GROUND ROD |
| 1 EA | 2 WIRE CENTRAL CONTROL UNIT |
| 1 EA | INSTALL HANDHOLE |
| 17 LF | WOOD SIGN SUPPORTS 4 IN. X 4 IN. |
| 1 EA | R4-7 (24" X 30") SIGN - GROUND MOUNT |

WIRING DIAGRAM



WIRING KEY

- A VIDEO DETECTION CABLE
- B,C 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EC EXISTING CABLE
- X GROUND ROD

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
UTILITY ENGINEER
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
CHIEF, SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7652

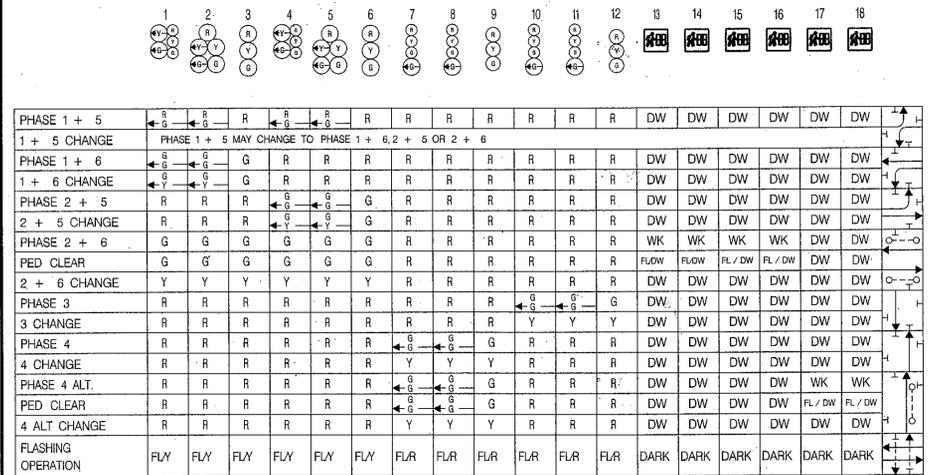
EQUIPMENT LIST "C"

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.

PHASING CHART



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
MD 175 AND LLEWELLYN AVE./
BLUE WATER BLVD.
ODENTON, MD

TRAFFIC CONCEPTS, INC.

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

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|-------------|-----------|--------------|--------------|--------------|---------|
| SCALE | NONE | DATE | 12-22-08 | CONTRACT NO. | BW99082 |
| DESIGNED BY | T. ZAYDEL | COUNTY | ANNE ARUNDEL | | |
| DRAWN BY | T. ZAYDEL | LOGMILE | 02017504.97 | | |
| CHECKED BY | K. SCHMID | T.I.M.S. NO. | | | |
| F.A.P. NO. | NA | TOD NO. | | | |
| DRAWING NO. | TS-163 GI | SHEET NO. | 2 | OF | 2 |