## PROJECT DESCRIPTION
### GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A CCTV SURVEILLANCE CAMERA MOUNTED ONTO A STEEL SUPPORT POLE. THE FIELD EQUIPMENT CABINET SHALL BE BASE MOUNTED AND SHALL INCLUDE ALL NECESSARY HARDWARE AND ELECTRICAL CONNECTIONS. THE CAMERA VIDEO FEED SHALL UTILIZE A T-1 DIGITAL DATA LINE.

### SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

### PROJECT CONTACTS:

MR. RANDAL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781
MS. SUE POPE, UTILITY ENGINEER
PHONE: (410) 321-2841
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. BILL BLOOM, HARFORD COUNTY OPERATIONS CENTER
PHONE: (410) 638-3404

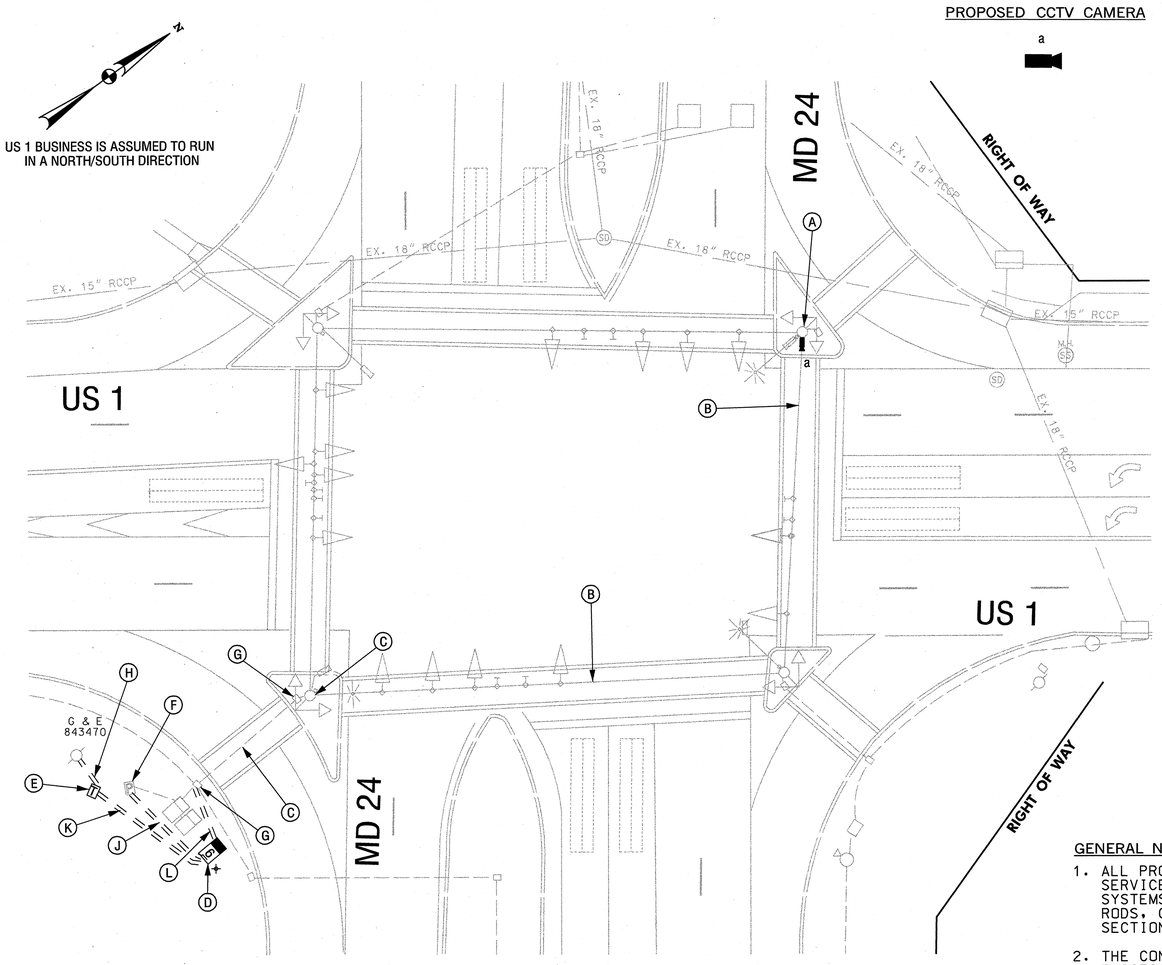
### EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

| ITEM NO. | DESCRIPTION | UNITS | QUANTITY |
|---|---|---|---|
| 9001 | VIDEO MUX III AND CODEC UNIT | EA | 1 |

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

| ITEM NO. | DESCRIPTION | UNITS | QUANTITY |
|---|---|---|---|
| 8001 | ITS FOUNDATION | CY | 3 |
| 8003 | CCTV CABINET NEMA SIZE 6 | EA | 1 |
| 8005 | COMMUNICATIONS PEDESTAL | EA | 1 |
| 8009 | 3 INCH SCHEDULE 80 RIGID PVC CONDUIT | LF | 90 |
| 8011 | 5 PAIR NO. 22 AWG SHIELDED COPPER CABLE | LF | 30 |
| 8012 | CAMERA CABLE ASSEMBLY | LF | 370 |
| 8013 | TRENCHING 8 INCH WIDE X 30 INCH DEEP | LF | 90 |
| 8014 | NO. 4 AWG STRANDED BARE COPPER GROUND WIRE | LF | 30 |
| 8015 | ELECT. CABLE 1-COND. NO. 4 AWG-THHN/THWN | LF | 60 |
| 8016 | CAMERA ASSEMBLY | EA | 1 |
| 8017 | GROUND ROD-3/4 INCH DIA. X 10 FOOT LENGTH | EA | 1 |
| NEG. | STEEL POLE EXTENSION | EA | 1 |
| NEG. | 1 1/4 INCH FLEXIBLE INNER DUCT | LF | 300 |




### CONSTRUCTION DETAILS

A. FURNISH AND INSTALL FIELD WELD STEEL POLE EXTENSION WITH CLOSED CIRCUIT TELEVISION CAMERA ASSEMBLIES ONTO EXISTING TRAFFIC SIGNAL STRUCTURE WITH ALL NECESSARY MOUNTING HARDWARE.

B. USE EXISTING SIGNAL SPAN WIRE TO INSTALL CAMERA CABLE ASSEMBLIES IN 1 1/4 INCH INNER DUCT.

C. USE EXISTING SIGNAL CONDUITS AND INSTALL CAMERA CABLE ASSEMBLIES IN 1 1/4 INCH INNER DUCT.

D. FURNISH AND INSTALL CONCRETE FOUNDATION WITH BASE MOUNTED CCTV CABINET AND ALL NECESSARY EQUIPMENT.

E. FURNISH AND INSTALL TELECOMMUNICATIONS SERVICE PEDESTAL.

F. USE EXISTING METERED SERVICE PEDESTAL, WIRE NEW SERVICE CABLES TO SPARE 20 AMP CIRCUIT BREAKER LABLE PANEL WITH ID TAG FOR (ITS).

G. USE EXISTING ELECTRICAL HANDHOLE.

H. FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED, STUB UP CONDUIT END AT BASE OF UTILITY POLE.

J. FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED, PROVIDE 2 WIRE, 1 CONDUCTOR NO. 4 AWG THHN/THWN ELECTRICAL CABLE WITH NO. 4 AWG STRANDED BARE COPPER GROUND WIRE.

K. FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED, PROVIDE 5 PAIR NO. 22 AWG SHIELDED COPPER CABLE.

L. FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED, PROVIDE CAMERA CABLE ASSEMBLIES IN 1 1/4 INCH INNER DUCT.

### GENERAL NOTES

1. ALL PROPOSED CCTV CONTROL EQUIPMENT CABINETS AND ELECTRICAL SERVICE EQUIPMENT FEEDS SHALL BE PROVIDED WITH PROPER GROUNDING SYSTEMS. THIS WORK MAY INCLUDE ADDITIONAL EQUIPMENT AS GROUND RODS, GROUND WIRE, GROUNDING CONDUCTORS AND TERMINATIONS, PER SECTION 804.
2. THE CONTRACTOR SHALL NOT INTERRUPT NOR INTERFERE WITH THE EXISTING TRAFFIC CONTROL SIGNAL OPERATION WHILE WORKING AT THIS INTERSECTION, UNLESS PRIOR WRITTEN APPROVAL OR DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC CONTROL AT ALL TIMES WHILE WORKING AT THE INTERSECTION.
4. ALL PROPOSED CCTV CAMERA CONTROL CABLE SHALL BE INSTALLED IN A FLEXIBLE CORRUGATED INNER DUCT RACEWAY. THE INNER DUCT SHALL BE HIGH DENSITY POLYETHYLENE, ORANGE IN COLOR AND SHALL MEET ASTM D3035.
5. ALL FIELD WELDING SHALL REQUIRE INSPECTION AND APPROVAL BY THE SHA, OOM. PRIOR TO THE START OF ANY FIELD WORK THE CONTRACTOR SHALL CONTACT MR. WEISNER AT (301) 513-7373 TO COORDINATE A WORK SCHEDULE.

### GEOMETRIC LEGEND

EXISTING

### UTILITY LEGEND

SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
SAN — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
FO — FIBER-OPTIC

SABRA, WANG & ASSOCIATES, INC.
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BALTIMORE, MD 21227
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| APPROVALS | |
|---|---|
| TEAM LEADER, TRAFFIC ENGINEERING DIVISION | 7/15/05 |
| ASST. CHIEF, TRAFFIC ENGINEERING DIVISION | 7/15/05 |
| CHIEF, TRAFFIC ENGINEERING DIVISION | 7/15/05 |
| DIRECTOR, OFFICE OF TRAFFIC & SAFETY | 7/18 |

REVISIONS

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

## US 1 BUSINESS AT MD 24

CCTV CAMERA

SCALE 1"=20' DATE 07/15/05 CONTRACT NO. AT6225186

DESIGNED BY S. RENZI
DRAWN BY D. BROWN
CHECKED BY J. WEAVER
F.A.P. NO.
COUNTY HARFORD
LOGMILE
T.I.M.S. NO.
TOD NO.

DRAWING NO. OF SHEET NO. OF

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BY: jweaver