6/18/01 11:13:50 AM G:\PLOTTING\PS7\OCF\MYLAR_HP.def Susan Xu Division: Transportation m:\1997\0197029\MD28\SAFEWAY\sp02smot.prt

## EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

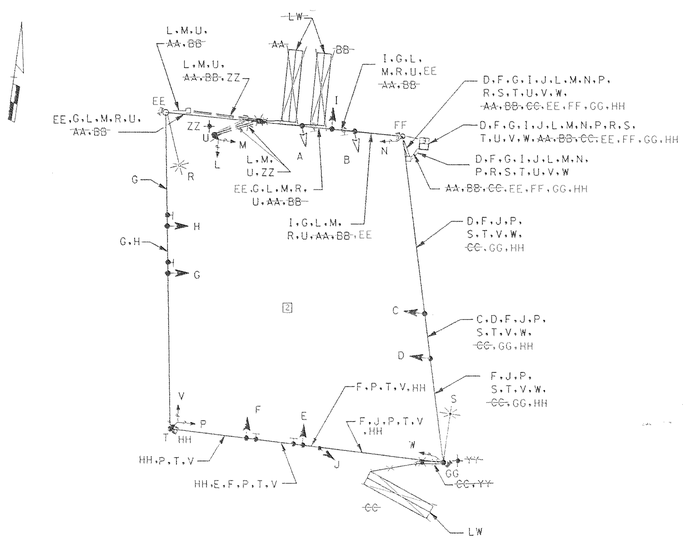
| | QUANTITY | UNIT | SPECIFICATION SECTION | DESCRIPTION |
|---|---|---|---|---|
| | 2 | EA | SP | PEDESTRIAN PUSHBUTTON AND SIGN |
| [2] | 44 ~~29~~ | SF | 813 | FLAT SHEET ALUMINUM SIGNS CONSISTING OF:<br>3 - 1 EACH R3-2 (30" X 30")-SPAN WIRE MOUNT<br>- 2 EACH R3-5R (30" X 36")-SPAN WIRE MOUNT<br>2 - 1 EACH R3-5L (30" X 36")-SPAN WIRE MOUNT |

## EQUIPMENT LIST 'B'

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

| | QUANTITY | UNIT | SPECIFICATION SECTION | DESCRIPTION |
|---|---|---|---|---|
| | 3 | CY | 205 | TEST PIT EXCAVATION |
| | 150 | LF | 556 | 24 INCH WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE |
| [2] | 44 ~~29~~ | SF | 813 | INSTALL OVERHEAD SIGN |
| | 2 | EA | SP | INSTALL PUSHBUTTON AND SIGN |
| | 2 | EA | 811 | FURNISH AND INSTALL ELECTRICAL HANDHOLE |
| | 6 | CY | 801 | FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION |
| [2] | ~~14~~ | ~~LF~~ | ~~805~~ | ~~FURNISH AND INSTALL 1 INCH LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE~~ |
| | 59 | LF | 805 | FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED |
| | 1 | EA | SP | FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE WITH PHOTOCELL |
| | 76 | LF | 810 | FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE |
| [2] | ~~768~~ | ~~LF~~ | ~~810~~ | ~~FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (ALUMINUM SHIELDED)~~ |
| | 665 | LF | 810 | FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (NO 14 AWG) |
| | 2400 | LF | 810 | FURNISH AND INSTALL ELECTRICAL CABLE- 3 CONDUCTOR (NO 14 AWG) |
| | 1284 | LF | 810 | FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO 14 AWG) |
| [2] | ~~1368~~ | ~~LF~~ | ~~810~~ | ~~FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)~~ |
| [2] | ~~350~~ | ~~LF~~ | ~~815~~ | ~~FURNISH AND INSTALL SAWCUT FOR SIGNAL LOOP DETECTOR~~ |
| | 239 | LF | 810 | FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG) |
| | 535 | LF | 819 | FURNISH AND INSTALL STEEL SPAN WIRE-3/8 INCH DIAMETER |
| | 535 | LF | 819 | FURNISH AND INSTALL STEEL SPAN WIRE-1/4 INCH DIAMETER |
| | 24 | EA | 814 | FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION |
| | 8 | EA | 814 | FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION-POLE MOUNT |
| | 4 | EA | 814 | FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION-PEDESTAL POLE MOUNT |
| | 1 | EA | 818 | FURNISH AND INSTALL 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE |
| | 2 | EA | SP | FURNISH AND INSTALL 12 INCH X 30 FOOT STRAIN POLE |
| | 1 | EA | SP | FURNISH AND INSTALL 10 FOOT BREAKAWAY PEDESTAL |
| | 2 | EA | 814 | RELOCATE EXISTING SIGNAL HEAD |
| | 1 | LS | SP | REMOVE AND DISPOSE OF EXISTING EQUIPMENT |
| [2] | 4 | EA | SP | VIDEO TRAFFIC DETECTION SYSTEM |
| [2] | 810 | LF | SP | VIDEO TRAFFIC DETECTION CABLING |

## PHASE 1 WIRING DIAGRAM




TEMPORARY WIRING NOTES:

1) NEW AND RELOCATED SIGNAL HEADS SHALL BE WIRED WITH SUFFICIENT CABLE TO PROVIDE FOR REALIGNMENT IN SUBSEQUENT CONSTRUCTION PHASE.

2) EXISTING WIRING FOR EQUIPMENT WHICH IS TO BE REMOVED OR ABANDONED SHALL BE REMOVED AND DISPOSED.

3) EXISTING WIRING NOT DETAILED SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.

WIRING KEY

A,B,C,D,E,F,G,H,I,J - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
[2] ~~AA,BB,CC - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED~~
L,M,N,P,V,W - 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
T,U - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
R,S - 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG)
YY,ZZ - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
LW - LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
⏚ - 3/4"x10' GROUND ROD
[2] EE,FF,GG,HH - VIDEO TRAFFIC DETECTION CABLING (NO. 18 A.W.G.)

## PHASE CHART

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHASE 2 & 6 | G | G | G | G | R | R | R | R | R | R | W | W | W | W | DW | DW |
| PED CLEAR | G | G | G | G | R | R | R | R | R | R | FL/DW | FL/DW | FL/DW | FL/DW | DW | DW |
| 2 & 6 CHANGE | Y | Y | Y | Y | R | R | R | R | R | R | DW | DW | DW | DW | DW | DW |
| PHASE 4 & 8 | R | R | R | R | G | G | G | G | G | G | DW | DW | DW | DW | DW | DW |
| 4 & 8 CHANGE | R | R | R | R | Y | Y | Y | Y | Y | Y | DW | DW | DW | DW | DW | DW |
| ALT PHASE 4 | R | R | R | R | G | G | G | G | G | G | DW | DW | DW | DW | W | W |
| PED CLEAR | R | R | R | R | G | G | G | G | G | G | DW | DW | DW | DW | FL/DW | FL/DW |
| ALT 4 CHANGE | R | R | R | R | Y | Y | Y | Y | Y | Y | DW | DW | DW | DW | DW | DW |
| FLASHING OPERATION | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | FL/R | FL/R | DARK | DARK | DARK | DARK | DARK | DARK |

TSP 10

REVISIONS

(A) 10-00 NEW
MD 28 GEOMETRICS
SHA CONT. NO. MO5285271

(A) ADDENDUM NO. 3
REPLACEMENT SHEET
12/19/2000

[2] REDLINE NO. 2
REPLACEMENT SHEET
6/22/2001

M.P.

REVISION 'A'

KCI TECHNOLOGIES

KCI TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

APPROVALS

PROJECT MANAGER, SIGNAL DESIGN DIVISION
ORIGINALS
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
ON
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
FILE
DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
*Office of Traffic & Safety*
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET
PHASE 1 CONSTRUCTION
MD 28 (DARNESTOWN RD) AND SAFEWAY DRIVEWAY/QUINCE ORCHARD H.S. DRIVEWAY

| | | | | | |
|---|---|---|---|---|---|
| DRAWN BY: R.R. ZACHERL | F.A.P. NO. | | TS NO. 335IA-GIX-1 | SHEET NO. |
| CHECKED BY: STEVE RENZI | S.H.A. NO. | BW-580-802-312 | | |
| SCALE: NONE | COUNTY: | MONTGOMERY | T.I.M.S. NO. D107 | 309 OF 434 |
| DATE: 7-19-93 | LOG MILE: | 15002815.51 | | |

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