EQUIPMENT LIST 'A'

EQUIPMENT TO BE SUPPLIED BY THE SHA.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
1	EA	SP	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH L.A.U. AND L.A.U. PANEL WITH ASSOCIATED HARNESS HOUSED IN A NEMA SIZE 'B' BASE MOUNTED CABINET
3	EA	SP	FOUR-CHANNEL, TIME DELAY OUTPUT, LOOP DETECTOR AMPLIFIER
2	EA	SP	PEDESTRIAN PUSHBUTTON AND SIGN
43	SF	813	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: - 1 EACH R3-5L (30" X 36")-SPAN WIRE MOUNT - 1 EACH R3-5LR (30" X 36")-SPAN WIRE MOUNT - 1 EACH R10-12 (36" X 42")-SPAN WIRE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY (24"X51") - 1 EACH ASSOCIATED SHIELD ASSEMBLY (30"X51")

EQUIPMENT LIST 'B'

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

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
3	CY	205	TEST PIT EXCAVATION
90	LF	556	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
1	EA	816	INSTALL CONTROLLER AND CABINET-BASE MOUNT
43	SF	813	INSTALL OVERHEAD SIGN
2	EA	SP	INSTALL PUSHBUTTON AND SIGN
2	EA	813	FURNISH AND INSTALL 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
3	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE
[7] 16 ~~11~~	CY	801	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
[4] ~~25~~	~~LF~~	~~805~~	~~FURNISH AND INSTALL 1" (VOID) TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE~~
70	LF	805	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
20	LF	805	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
1	EA	807	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
2	EA	806	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE WITH PHOTOCELL
4	EA	804	FURNISH AND INSTALL GROUND ROD-3/4 INCH DIAMETER X 10-FOOT LENGTH
400	LF	810	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
[4] ~~750~~	~~LF~~	~~810~~	~~FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR (ALUMINUM SHIELDED)~~
925	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR (NO 14 AWG)
100	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE-1 CONDUCTOR (NO 4 AWG)

EQUIPMENT LIST 'B'

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

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
[7] 425 ~~400~~	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE-3 CONDUCTOR (NO 14 AWG)
650	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE-5 CONDUCTOR (NO 14 AWG)
[7] 1325 ~~1300~~	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE-7 CONDUCTOR (NO 14 AWG)
[4] ~~410~~	~~LF~~	~~810~~	~~FURNISH AND INSTALL LOOP WIRE ENCAGED IN FLEXIBLE TUBING (NO 14 AWG)~~
[4] ~~115~~	~~LF~~	~~816~~	~~FURNISH AND INSTALL SAWCUT FOR SIGNAL LOOP DETECTOR~~
275	LF	SP	RELOCATE EXISTING COMMUNICATION CABLE
500	LF	819	FURNISH AND INSTALL STEEL SPAN WIRE-1/4 INCH DIAMETER
500	LF	819	FURNISH AND INSTALL STEEL SPAN WIRE-3/8 INCH DIAMETER
6	EA	814	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
6	EA	814	FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT
[7] 2 ~~1~~	EA	SP	FURNISH AND INSTALL 12 INCH X 38 FOOT STRAIN POLE
1	LS	SP	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
1	LS	SP	REMOVE AND SALVAGE EXISTING SIGNAL EQUIPMENT
1	LS	SP	DELIVERY OF SALVAGED EQUIPMENT
[4] 1	EA	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION SYSTEM
[4] 290	LF	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CABLE
[7] 2	EA	SP	FURNISH AND INSTALL 12 INCH X 32 FOOT STRAIN POLE

NOTE: ALL EQUIPMENT AND/OR MATERIALS TO BE REMOVED BY THE CONTRACTOR, BUT NOT LISTED BELOW, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

QUANTITY	UNIT	DESCRIPTION
1	EA	CONTROLLER AND CABINET

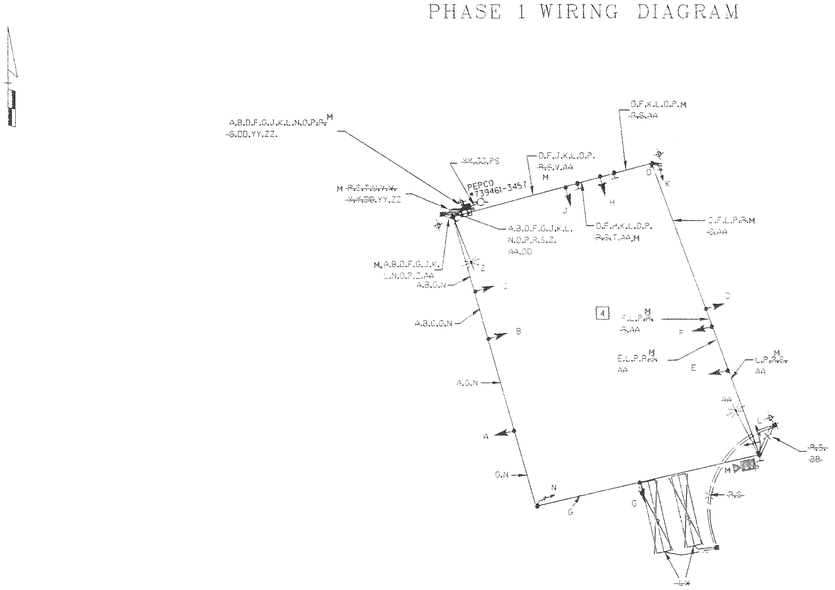
TEMPORARY WIRING NOTES:

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

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

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

PHASE 1 WIRING DIAGRAM



WIRING KEY

B,D,F,G,J,L - 7-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
A,C,E,H - 5-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
[4] ~~R,S - 2-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG) -ALUMINUM SHIELDED~~
K,N - 3-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
S,AA - 2-CONDUCTOR CABLE TYPE T/C (NO.12 AWG)
O,P - 2-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
[4] ~~L - LOOP WIRE (NO.14 AWG)~~
YY,ZZ - 50 PAIR COMMUNICATION CABLE, JELLY FILLED
BB,CC,DD - STRANDED BARE COPPER GROUND WIRE (NO.6 AWG)
◆ - 3/4" x 10' GROUND ROD
PS - POWER FEED 3-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG)
[4] M - VIDEO TRAFFIC DETECTION CABLE

REVISION 'A'

KCI TECHNOLOGIES

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

REVISIONS	APPROVALS
(B) 10-00 NEW MD 28 GEOMETRICS SHB. CONT. NO. MD 5285271	PROJECT MANAGER, SIGNAL DESIGN DIVISION: ORIGINAL
(A) ADDENDUM NO. 3 REPLACEMENT SHEET 12/19/2000	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: ON
[4] REDLINE NO. 4 REPLACEMENT SHEET 8/23/2001	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: FILE
[7] REDLINE NO. 7 REPLACEMENT SHEET 2/4/2002	DIRECTOR, TRAFFIC & SAFETY
O.K.	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
PHASE I CONSTRUCTION
MD 28 (KEY WEST AVE) AND DARNESTOWN RD.

TSP 50

DRAWN BY: W.W.C./T.E.L.	F.A.P. NO.		TS NO. 2640A-GIX-1
CHECKED BY: JOHN C. RICE	S.H.A. NO.		SHEET NO. 337L OF 434
SCALE: NONE	COUNTY: MONTGOMERY		T.I.M.S. NO. D107
DATE: 6-13-85	LOG MILE: 15002878.21		

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