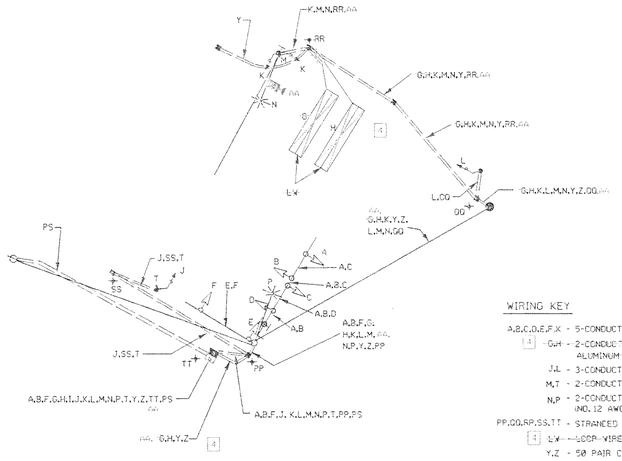
PHASE 2 WIRING DIAGRAM



WIRING KEY

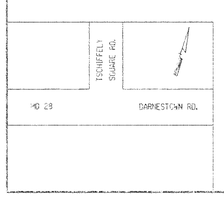
A,B,C,D,E,F,K - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
4 G,H - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) ALUMINUM SHIELDED
J,L - 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
M,T - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
N,P - 2-CONDUCTOR ELECTRICAL CABLE TYPE T/C (NO. 12 AWG)
PP,GG,RP,SS,TT - STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
4 LK - LOOP WIRE (NO. 14 AWG)
Y,Z - 50 PAIR COMMUNICATION CABLE, JELLY FILLED
⏚ - 3/4" x 10' GROUND ROD
PS - POWER FEED 3 1-CONDUCTOR ELECTRICAL CABLES (NO. 4 AWG)
4 AA - VIDEO TRAFFIC DETECTION CABLE

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 ABANDONED SHALL BE REMOVED AND DISPOSED.

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



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 '6' BASE MOUNTED CABINET
2	EA	SP	PEDESTRIAN PUSHBUTTON AND SIGN
17	SF	813	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: 2-EACH 24"X51" SHIELD ASSEMBLY

EQUIPMENT LIST 'B'

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

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
3	CY	205	TEST PIT EXCAVATION
85	LF	556	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
2	EA	SP	INSTALL PUSHBUTTON AND SIGN
6	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE
5	CY	801	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
4 20	LF	805	FURNISH AND INSTALL 1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
140	LF	805	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
100	LF	805	FURNISH AND INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
145	LF	805	FURNISH AND INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
1	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
360	LF	810	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
4 520	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2-CONDUCTOR (ALUMINUM SHIELDED)
380	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (NO 14 AWG)
320	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 1 CONDUCTOR (NO 4 AWG)
17	SF	813	INSTALL OVERHEAD SIGN
1	EA	816	INSTALL CONTROLLER AND CABINET - BASE MOUNT
1	EA	807	INSTALL CONTROL AND DISTRIBUTION EQUIPMENT

EQUIPMENT LIST 'B'

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

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
290	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 3 CONDUCTOR (NO 14 AWG)
890	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO 14 AWG)
4 120	LF	810	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)
4 40	LF	815	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
670	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO 12 AWG)
1	LS	SP	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
4	EA	814	FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD-PEDESTAL TOP MOUNT
4	EA	814	FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD-SIDE POLE MOUNT
2	EA	SP	FURNISH AND INSTALL 10-FOOT BREAKAWAY PEDESTAL POLE
1	EA	818	FURNISH AND INSTALL 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
1	EA	SP	FURNISH AND INSTALL 27-FOOT STEEL POLE WITH A SINGLE 60-FOOT MAST ARM
1	EA	SP	FURNISH AND INSTALL 40 FOOT TEMPORARY WOOD POLE
1	LS	SP	REMOVE AND SALVAGE EXISTING SIGNAL EQUIPMENT
1	LS	SP	DELIVERY OF SALVAGED EQUIPMENT
1	LS	SP	RELOCATE EXISTING COMMUNICATION CABLE
135	LF	813	FURNISH AND INSTALL STEEL SPAN WIRE 3/8-INCH DIAMETER
40	LF	805	FURNISH AND INSTALL 3 INCH ELECTRICAL CONDUIT - PVC RISER
4 1	EA	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION SYSTEM
4 310	LF	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CABLE

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 - POLE MOUNT

TSP 23

KCI TECHNOLOGIES

REVISION 'A'
KCI TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1388
(410) 316-7800

REVISIONS
(A) 10-00 NEW
MD 28 GEOMETRICS
SHA CONT. NO. MO5295271
△ ADDENDUM NO. 3
REPLACEMENT SHEET
12/19/2000
4 REDLINE NO. 4
REPLACEMENT SHEET
9/07/2001
Q.X.

APPROVALS
PROJECT MANAGER, SIGNAL DESIGN DIVISION
ORIGINAL
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 2
MD 23 (DARNESTOWN RD) AND TSCHIFFELY SQUARE RD

DRAWN BY: T. ZAYDEL	F.A.P. NO.		TS NO. 3G09A-GIX-1
CHECKED BY: T. HANNAN	S.P.A. NO.		SHEET NO.
SCALE: NONE	COUNTY: MONTGOMERY		
DATE: 6-3-96	LOG MILE: 15002316.06	T.I.M.S. NO. D107	327 OF 434

M:\1997\0197029\MD28\

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