

FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.		24	24

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

QUANTITY	DESCRIPTION
4 EACH	12 IN., ONE WAY, THREE SECTION (R Y G) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISOR.
2 EACH	12 IN., ONE WAY, THREE SECTION (R, YA, GA) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISOR.
2 EACH	12 IN., ONE WAY, TWO SECTION (HAND,MAN) PEDESTIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR PEDESTRIAN POLE MOUNTING AND TUNNEL VISOR.
2 EACH	12 IN., ONE WAY, TWO SECTION (HAND,MAN) PEDESTIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR SIDE OF POLE (MAST ARM) MOUNTING AND TUNNEL VISOR.
3 EACH	PEDESTRIAN PUSHBOTTON AND R10-3C SIGN
1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH TELEMETRY PANEL AND SYSTEM PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.
171 S.F.	SHEET ALUMNUM SIGNS TO CONSIST OF: - 3 EACH W3-3 SIGN (48 IN. X 48 IN.) WITH "NEW" PANEL (30 IN. X 30 IN.) AND FLAGS- GROUND MOUNT. - 3 EACH D3-2 SIGN (VARIABLE X 16 IN.) MAST ARM MOUNT. - 2 EACH R3-5L SIGN (30 IN. X 36 IN.) MAST ARM MOUNT. - 2 EACH W11-2 SIGN (30 IN. X 30 IN.) GROUND MOUNT. - 2 EACH M6-2 SIGN (21 IN. X 15 IN.) GROUND MOUNT. - 1 EACH R3-7R SIGN (30 IN. X 30 IN.) GROUND MOUNT. - 1 EACH R3-7L SIGN (30 IN. X 30 IN.) GROUND MOUNT. - 1 EACH R3-8LTT SIGN (48 IN. X 30 IN.) GROUND MOUNT. - 1 EACH R3-4 SIGN (24 IN. X 24 IN.) GROUND MOUNT. - 1 EACH R3-4 SIGN (24 IN. X 24 IN.) MAST ARM MOUNT. - 2 EACH W16-1 SIGN (18 IN. X 18 IN.) GROUND MOUNT. - 1 EACH R3-8TTR SIGN (48 IN. X 30 IN.) GROUND MOUNT.
3 EACH	FOUR CHANNEL, TIME DELAY OUTPUT, LOOP DETECTOR AMPLIFIER.
1 EACH	DETECTOR RACK POWER SUPPLY.

EQUIPMENT LIST "B"

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

QUANTITY	DESCRIPTION
1 EACH	MAINTENANCE OF TRAFFIC
3 C.Y.	TEST PIT EXCAVATION
9 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
1 EACH	FURNISH AND INSTALL SINGLE 27' MAST ARM POLE WITH 38' MAST ARM AND ANCHOR BOLTS.
1 EACH	FURNISH AND INSTALL 27' TWIN MAST ARM POLE WITH 50' MAST ARMS AND ANCHOR BOLTS
2 EACH	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE 10 FT.
10 EACH	INSTALL SIGNAL HEADS
3 EACH	INSTALL PUSH BUTTON AND SIGN
6 EACH	FURNISH AND INSTALL MICRO-LOOP TRIPLE PROBE SET
1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
472 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
80 L.F.	FURNISH AND INSTALL 1 IN. GALVINIZED CONDUIT FOR DETECTOR SLEEVE
40 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
815 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
260 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
70 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
210 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED

EQUIPMENT LIST "B" CONTINUED

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

QUANTITY	DESCRIPTION
12 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
5 EACH	FURNISH AND INSTALL GROUND ROD - 3/4" DIAMETER X 10 FT. LENGTH
1019 L.F.	FURNISH AND INSTALL 1 - CONDUCTOR #14 AWG. LOOP DETECTOR WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING
408 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR ALUMINUM SHIELED (NO. 14 A.W.G.)
338 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
886 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG.)
1018 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
996 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
1303 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
240 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS (4 IN. X 4 IN.)
36 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS (4 IN. X 6 IN.)
120 S.F.	INSTALL GROUND MOUNTED SIGN
51 S.F.	INSTALL OVERHEAD SIGN
2 EACH	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE
2 EACH	FURNISH AND INSTALL 20 FT. LIGHTING BRACKET FOR TRAFFIC SIGNAL STRUCTURE
3 EACH	REMOVE AND RESET GROUND MOUNTED SIGN
2 EACH	REMOVE GROUND MOUNTED SIGN
1 EACH	PROVIDE AS-BUILT PLANS ON DISK IN MICROSTATION 5.0

PGM NUMBER...VCI 90-0149

RETTEW
 Associates, Inc.
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 Mechanicsburg, PA • Orwigsburg, PA
 Engineers • Planners • Scientists • Landscape Architects • Surveyors

REVISIONS	APPROVALS	REVISIONS
	CHIEF, SIGNAL DESIGN SECTION	
	ASST. DISTRICT ENGINEER, TRAFFIC	
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
 TRAFFIC ENGINEERING DESIGN DIVISION
 GENERAL INFORMATION PLAN - GI-2
 ST. CHARLES PARKWAY AT SMALLWOOD DRIVE

DATE: 6-97	DRAWN BY: S. LOOSE	F.A.P. NO.	PLAN SHEET NO. TS-3722	SHEET NO. 3 OF 3
SCALE: 1"=20'	DESIGNED BY: L. BANKERT	S.H.A. NO.	COUNTY CHARLES	
APPROVED BY:	CHECKED BY:			

Handwritten initials/signature.