

EQUIPMENT LIST "A"

EQUIPMENT LIST "B"

EQUIPMENT LIST "C"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
806	960020	1 EACH	12 IN., 1-WAY, 5-SECTION (R,Y,A,Y,G,A,G) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
806	960015	4 EACH	12 IN., 1-WAY, 3-SECTION (R,Y,G.) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
806	960020	1 EACH	12 IN., 1-WAY, 5-SECTION (R,Y,Y,G,G,A) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
816	971017	1 EACH	EIGHT PHASE, FULLY-ACTUATED TRAFFIC SIGNAL CONTROLLER IN A NEMA SIZE #6" BASE MOUNTED SYSTEM READY CABINET.
816	900000	2 EACH	FOUR CHANNEL LOOP DETECTOR AMPLIFIERS (DELAY OUTPUT)
813	973023	33 S.F.	SHEET ALUMINUM SIGNS - 1 EACH R3-5R SIGN (30 IN. x 36 IN.) - "LANE USE CONTROL - RIGHT ONLY" SPAN WIRE MOUNT - 1 EACH R3-6 SIGN (30 IN. x 36 IN.) - "LANE USE CONTROL - LEFT & THRU" SPAN WIRE MOUNT - 1 EACH R10-12 SIGN (30 IN. x 36 IN.) - "LEFT TURN YIELD ON GREEN BALL" SPAN WIRE MOUNT - 1 EACH R3-1 SIGN (30 IN. x 36 IN.) - "NO LEFT TURN" SPAN WIRE MOUNT

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

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
205	203030	3 C.Y.	TEST PIT EXCAVATION
801	801004	11 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	2 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
805	805011	50 L.F.	FURNISH AND INSTALL 1 IN. GALVANIZED ELECTRIC CONDUIT FOR DETECTOR SLEEVE
805	800000	15 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
806	831010	2 EACH	FURNISH AND INSTALL 250 WATT H.P.S. LAMP AND LUMINAIRE
807	807205	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
810	802501	260 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
810	861104	495 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
810	861107	90 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
810	861108	640 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
810	861116	260 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
810	862101	1510 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
811	811001	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813	800000	33 S.F.	INSTALL OVERHEAD SIGN
814	860200	6 EACH	INSTALL SIGNAL HEADS - SPAN MOUNT
---	800000	2 EACH	FURNISH AND INSTALL 3" WEATHER HEAD
---	869102	310 L.F.	FURNISH AND INSTALL 3/8" SPAN WIRE
815	862102	425 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
816	871117	1 EACH	INSTALL EIGHT-PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNTED
818	800000	1 EACH	FURNISH AND INSTALL 27 FT. STEEL POLE WITH A SINGLE 70 FT. MAST ARM
818	800000	1 EACH	FURNISH AND INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT. & 60 FT. MAST ARM
818	866104	2 EACH	FURNISH AND INSTALL 20 FT. LIGHTING ARM ON SIGNAL STRUCTURE
---	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
---	873001	L.S.	REMOVE EXISTING SIGNAL EQUIPMENT TO BE SALVAGED
* ---	800000	LS	DELIVERY OF SALVAGED MATERIALS
805	800000	25 L.F.	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
810	861117	10 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 4 A.W.G.)

\* NON FEDERAL AID ITEM

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7941 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY	DESCRIPTION
1	STEEL POLE WITH SINGLE MAST ARM
1	TRAFFIC SIGNAL CONTROLLER AND CABINET.
1	STEEL POLE WITH TWIN MAST ARMS

- NOTES:
1. THE CONTRACTOR SHALL NOTIFY THE SHA AT 410-787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.
  2. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION DETAILS

- A. INSTALL 27' STEEL SIGNAL POLE WITH TWIN 50' AND 60' MAST ARMS, SIGNS, 20' STREET LIGHTING ARM, 250 WATT H.P.S. (CUTOFF) LUMINAIRE, CONCRETE FOUNDATION AND GROUND ROD AND 3" WEATHER HEAD. (NOTE: 1-3", 90-DEGREE P.V.C. BEND; 1-2", 90-DEGREE P.V.C. BEND).
- B. INSTALL 27' STEEL SIGNAL POLE WITH 70' MAST ARM, 20' STREET LIGHTING ARM 250 WATT H.P.S. LUMINAIRE, CONCRETE FOUNDATION AND GROUND ROD AND 3" WEATHER HEAD. (NOTE: 1-3", 90-DEGREE P.V.C. BEND).
- C. INSTALL BASE MOUNTED CABINET, SIZE #6 AND CONTROLLER, CONCRETE FOUNDATION, GROUND ROD AND ALL CONTROL AND DISTRIBUTION EQUIPMENT.
- D. INSTALL HANDHOLE.
- E. INSTALL 1" GALVANIZED STEEL ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- F. INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).
- G. PROPOSED OVERHEAD SERVICE.
- J. INSTALL 4" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).
- K. INSTALL 6' x 30' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (3-6-3 TURNS) QUADRUPOLE TYPE.
- L. REMOVE EXISTING CABINET, CONTROLLER AND FOUNDATION.
- M. ABANDON EXISTING LOOP DETECTOR.
- N. ABANDON EXISTING CONDUIT.
- O. REMOVE EXISTING HANDHOLE.
- P. REMOVE EXISTING STEEL POLE, MAST ARM, SIGNAL HEADS, SIGNS AND FOUNDATION.
- Q. REMOVE EXISTING STEEL POLE, STREET LIGHTING ARM AND FOUNDATION.
- R. DISCONNECT EXISTING SERVICE.
- S. INSTALL DOUBLE SPAN WIRE, SIGNAL HEADS, AND SIGNS AS DIRECTED BY THE ENGINEER.
- T. INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE).

STAGE IA  
TEMPORARY TRAFFIC SIGNALS

SS-3

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REVISIONS:	APPROVALS:
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

November, 1998  
 Reconstruct Due To New Geometrics. SHA No: BA9775372  
 DIRECTOR OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION  
 Office of Traffic & Safety  
 TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE # 03014600.85

MD 146 (DULANEY VALLEY ROAD) AT  
 I-695 RAMPS/HAMPTON LANE  
 SIGNAL PLAN  
 COUNTY: BALTIMORE

DRAWN BY: SMH  
 DES. BY: DLA/SMH  
 CHK. BY: BJH

DATE: NOVEMBER, 1998 F.A.P. NO. SEE TITLE SHEET  
 SCALE: N.T.S. S.H.A. NO. BA9775372

TS/STD. NO.: 454E-X1A-GI2  
 SHEET NO. 106 OF 155