RYGG G DW DW $\mathsf{D}\mathsf{W}$ PHASE 2 + 6 PED CLEAR FL/DW | FL/DW | FL/DW | 2 + 6 CHANGE PHASE 3 $\mathsf{D}\mathsf{W}$ 3 CHANGE $\mathsf{D}\mathsf{W}$ PHASE 3 ALT DW PED CLEAR 3 ALT CHANGE DW DW PHASE 4 $\mathsf{D}\mathsf{W}$ $\mathsf{D} \mathsf{W}$ $\mathsf{D}\mathsf{W}$ 4 CHANGE R R $\mathsf{D} \mathsf{W}$ DW DW DW $\mathsf{D}\mathsf{W}$ DARK DARK DARK

PHASE CHART

PROJECT DESCRIPTION

CONTROL SIGNAL AT MD 450 AND 85TH AVENUE IN PRINCE GEORGE'S COUNTY. MD 450 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

OPERATION

PRESENTLY, THE INTERSECTION OPERATES IN A NEMA SIX (6) PHASE FULL-TRAFFIC-ACTUATED MODE. AND ACTUATED PEDESTRIAN CROSSING AT THE WEST LEG OF THE INTERSECTION. A NEW NON-ACTUATED PEDESTRIAN CROSSING WILL BE PROVIDED FOR THE SOUTH LEG OF THE INTERSECTION.

THE INTERSECTION IS TO BE MODIFIED TO A NEMA SIX (6) PHASE FULL-TRAFFIC-ACTUATED MODE. AUTOSCOPE WILL BE PROVIDED FOR ALL APPROACHES. THERE WILL BE PEDESTRIAN CROSSINGS PROVIDED FOR THE SOUTH LEG OF THE INTERSECTION.

THE EXISTING CONTROLLER AND LOOP DETECTOR AMPLIFIERS WILL BE UTILIZED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS: MR. MAJID SHAKIB ASSISTANT DISTRICT ENGINEER - TRAFFIC

PHONE: (301) 513-7358 MR. AUGIE REBISH UTILITY ENGINEER

PHONE: (301) 513-7350

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676

MR. RALEIGH MEDLEY ASSISTANT DISTRICT ENGINEERING - MAINTENANCE PHONE: (301) 513-7304

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF -TRAFFIC OPERATIONS (410) 787-7630

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7650

MR DAVE SCHWARTZ SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) (410) 787-7668

EQUIPMENT L

A. EQUIPMENT TO BE SUPPLIED BY SHA

CATEGORY CODE NO. QUANTITY DESCRIPTION

900000 1 EACH VIDEO INTERFACE EQUIPMENT 813 973023 16.9 S.F. SHEET ALUMINUM SIGNS

- 1 EACH M6-2L (21"X15") "SIGN" "DIRECTIONAL ARROW - DIAGONAL" - 1 EACH M6-2R (21"X15") "SIGN"

"DIRECTIONAL ARROW - DIAGONAL" - 2 EACH W11-2 (30"X30") "SIGN"

"PEDESTRIAN CROSSING (SYMBOL)"

EQUIPMENT LIST

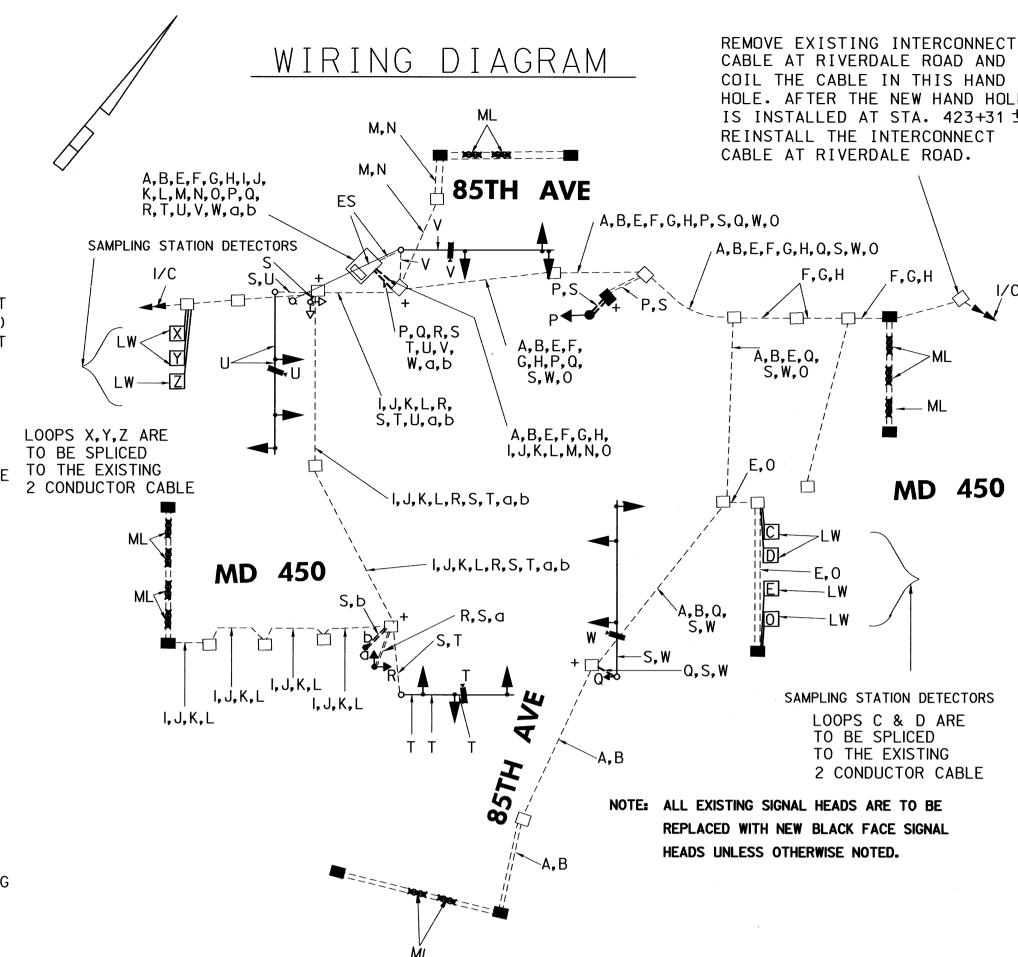
B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR:

SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
205	203030	3 C.Y.	TEST PIT EXCAVATION
556	585405	60 L.F.	FURNISH AND INSTALL 5" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
556	585622	575 L.F.	FURNISH AND INSTALL 12" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK)
556	585624	250 L.F.	FURNISH AND INSTALL 24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOPWALK)
801	801004	2.1 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	6 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER × 10 FOOT LENGTH
805	805160	35 L.F.	FURNISH AND INSTALL 1" LIQUID-TIGHT FLEXABLE NON- TO METALLIC FLECTRICAL CONDUIT FOR DETECTOR WIRE SLEEVE TO
805	805125	120 L.F.	FURNISH AND INSTALL 2 IN SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805	805105	30 L.F.	FURNISH AND INSTALL 2 IN SCHEDULE 80 RIGID PVC CONDUIT-BORED
805	805115	330 L.F.	FURNISH AND INSTALL 3IN SCHEDULE 80 RIGID PVC CONDUIT-BORED
810	800000	9 EACH	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET 500' LEAD-IN
810	800000	9 EACH	FURNISH AND INSTALL NON-INVESIVE MICRO-LOOP PROBE SET 1000' LEAD-IN
810	802501	640 L.F.	FURNISH AND INSTALL NO. 6 STRANDED BARE COPPER GROUND WIRE
810	861105	205 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 2-CONDUCTOR (NO. 14 AWG)
810	861106	785 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 3-CONDUCTOR (NO. 14 AWG)
810	800000	L.S.	REROUTE EXISTING INTERCONNECT CABLE
810	861104	775 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
810	800000	5 EACH	FURNISH AND INSTALL LOOP DETECTOR SPLICE TO EXISTING 2 CONDUCTOR (ALUMINUM SHIELDED) CABLE
810	862101	1100 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
811	802145	1 EACH	ADJUST EXISTING HANDHOLE
811	811011	10 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
812	801106	32 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4" × 6"
813	813014	16.9 S.F.	INSTALL GROUND MOUNTED SIGN
814	800000	12 EACH	FURNISH AND INSTALL 12 INCH BLACK FACE PEDESTRIAN SIGNAL HEAD SECTION
814	800000	36 EACH	FURNISH AND INSTALL 12 INCH BLACK FACED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
814	800000	12 EACH	FURNISH AND INSTALL 8 INCH BLACK FACED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
815	862102	260 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
818	818004	1 EACH	FURNISH AND INSTALL 10 FT BREAKAWAY
	816011	4 EACH	PEDESTAL POLE FURNISH AND INSTALL VIDEO DETECTION CAMERA
	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
	816005	2 EACH	FURNISH AND INSTALL 250 FT. CABLE PRE-MANUFACTURED CAMERA TO CONTROL CABINET
	816010	2 EACH	FURNISH AND INSTALL 500 FT. CABLE PRE-MANUFACTURED CAMERA TO CONTROL CABINET
	862102	2 EACH	REMOVE AND DISPOSE FOUNDATION 12" BELOW GRADE

EQUIPMENT LIST "C"

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

> NOTE: 1. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR



WIRING KEY

			<u>- ' </u>	_
A.B.F.G.H.I. J.K.L	}	- MICRO-LOOP PROBE SET WITH 1.000' LEAD IN	ML	- MICRO-LOOP PROBE SET
C.D.M.N.	}	- MICRO-LOOP PROBE SET WITH 500' LEAD IN	ES	- EXISTING OVERHEAD ELECTRICAL SERVICE
P•Q•R•a	}	- 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	+	- ³ ⁄ ₄ IN. × 10 FT. GROUND ROD
S	}	- STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)	LW	- LOOP WIRE (NO. 14 AWG
T.U.V	}	- 250' CABLE FOR PRE-MANUFACTURI CAMERA TO CONTROL CABINET	ED	
W	}	- 500' CABLE FOR PRE-MANUFACTURE CAMERA TO CONTROL CABINET	ED	
b	}	- 2-CONDUCTOR ELECTRIAL CABLE CABLE (NO. 14 A.W.G.)		
E+0	}	- 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)		

SS-4

SHEET NO.

OF.



6612AM450.DGN

Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 AND 85th AVENUE **NEW CARROLLTON, MARYLAND**

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

F.A.P. NO.: SEE TITLE SHEET D.R. 369H-GI S.H.A. NO.: PRINCE GEORGE'S D.L.A. CHECKED BY: NOT TO SCALE T.I.M.S. NO. SCALE: COUNTY: _ LOG MILE: 16045004.44 **EI07** 2/2002 DATE:

A JOINT VENTURE

Frederic R. Harris, Inc.

* TO BE INSTALLED BY SHA SIGNAL SHOP