PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE REPLACEMENT OF THE EXISTING INTERSECTION TRAFFIC CONTROL SIGNAL AT MD 372 AND I-695 SB RAMPS. THE REPLACEMENT IS DUE TO RELOCATION OF THE INTERSECTION DURING THE CONSTRUCTION OF SHA CONTRACT BA333B21. MD 372 IS ASSUMED TO RUN IN AN EAST- WEST DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH MD 372 APPROACHES RUNNING CONCURRENTLY. MD 372 LEFT WILL BE EXCLUSIVE/PERMISSIVE. I-695 SB RAMP APPROACH WILL OPERATE AS A SEPARATE PHASE.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH (2) FOUR-CHANNEL, TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIERS (RACK MOUNTED). INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP TELEMETRY MODULE, ISOLATION BOARD HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

PROJECT CONTACTS

MR. DAVID J. MALKOWSKI
DISTRICT ENGINEER
(410) 321-2810

MR. JOSEPH McMAHON
DISTRICT UTILITY ENGINEER
(410) 321-2841

MR. RANDALL SCOTT
ASSISTANT DISTRICT
ENGINEER - TRAFFIC
(410) 321-2781

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

MR. DAVE RAMSEY
ASSISTANT DISTRICT
ENGINEER - MAINTENANCE
(410) 321-2761

THE POWER COMPANY REPRESENTATIVE IS :

BALTIMORE GAS ELECTRIC COMPANY
MR. JOSEPH G. BUNCH
INDUSTRIAL/COMMERCIAL SERVICES
NEW BUSINESS CONSTRUCTION
7317 PARKWAY DRIVE SOUTH
HANOVER, MD 21076
(410) 859-9030

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

CAT. CODE	QUANTITY	UNIT	DESCRIPTION
971017	1	EA.	8 PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNTED
973023	57.7	S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF: 1 EA.- R10-12 (36"x42") 2 EA.- R3-5L (30"x36") 1 EA.- D3-2 (60"x16") 1 EA.- ROUTE MARKER (36"x51") 1 EA.- ROUTE MARKER (51"x72")
900000	2	EA.	4 CHANNEL RACK MOUNT DETECTOR AMPLIFER

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND SALVAGED BY THE CONTRACTOR. THE EQUIPMENT SHALL BE DELIVERED TO MR. DAVE SCHWARTZ AT OOTS 7491 CONNELLY DRIVE; HANOVER, MD. 21076. (NOTIFY AT LEAST 72 HOURS PRIOR TO INTENDED DELIVER AT (410) 787-7658.)

CAT. CODE	QUANTITY	UNIT	DESCRIPTION
900000	1	EA.	BASE MOUNTED NEMA "6" CABINET W/CONTROLLER

EQUIPMENT LIST "B"

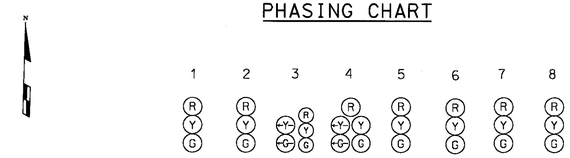
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CAT. CODE	QUANTITY	UNIT	DESCRIPTION
120500			MAINTENANCE OF TRAFFIC
203030	2	CY	TEST PIT EXCAVATION
585624	82	LF	F & I 24" WHITE HEAT APPLIED PREFORMED THERMOPLASTIC PAVEMENT MARKING
800000	25	EA	F & I 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION
800000	3	EA	F & I 8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION
800000	1	LS	DELIVERY OF SALVAGED EQUIPMENT
873001	1	LS	REMOVE AND SALVAGE EXISTING EQUIPMENT
800000	1	LS	REMOVE AND DISPOSE OF EXISTING MATERIALS & EQUIPMENT
818036	1	EA	F & I 27 FT STEEL POLE W/ A SINGLE 50 FT MAST ARM
818021	1	EA	F & I 27 FT STEEL POLE W/ TWIN 50 FT / 50 FT MAST ARMS
800000	4	EA	F & I MICRO LOOP PROBE SET - 500 FT
801004	11	CY	F & I CONCRETE FOR SIGNAL FOUNDATION
802501	217	LF	F& I STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
805160	20	LF	F & I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC DETECTOR SLEEVE
811001	10	EA	F & I ELECTRICAL HANDHOLE
813015	57.7	SF	INSTALL OVERHEAD SIGN
831010	2	EA	F & I 250 WATT HIGH PRESS SOD LAMP & LUM W/PHOTO CELL
837001	6	EA	F & I GROUND ROD -3/4" DIA. X 10.0" LENGTH
861104	250	LF	F & I ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
861107	190	LF	F& I ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
861108	756	LF	F& I ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
861116	318	LF	F & I ELECTRIC CABLE - 2 CONDUCTOR (NO. 12 AWG)
862101	1170	LF	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	306	LF	F & I SAW CUT FOR SIGNAL (LOOP DETECTOR)
866104	2	EA	F & I 20 FT. LIGHTING ARM
870160	752	LF	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
870168	193	LF	F & I 4" SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
870166	175	LF	F & I 4" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
870162	100	LF	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
871117	1	EA	INSTALL "8" PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNTED
818010	1	EA	F & I 14 FT. BW PEDESTAL POLE
861117	20	LF	F & I ELECTRICAL CABLE - 3/C #4 AWG WIRE

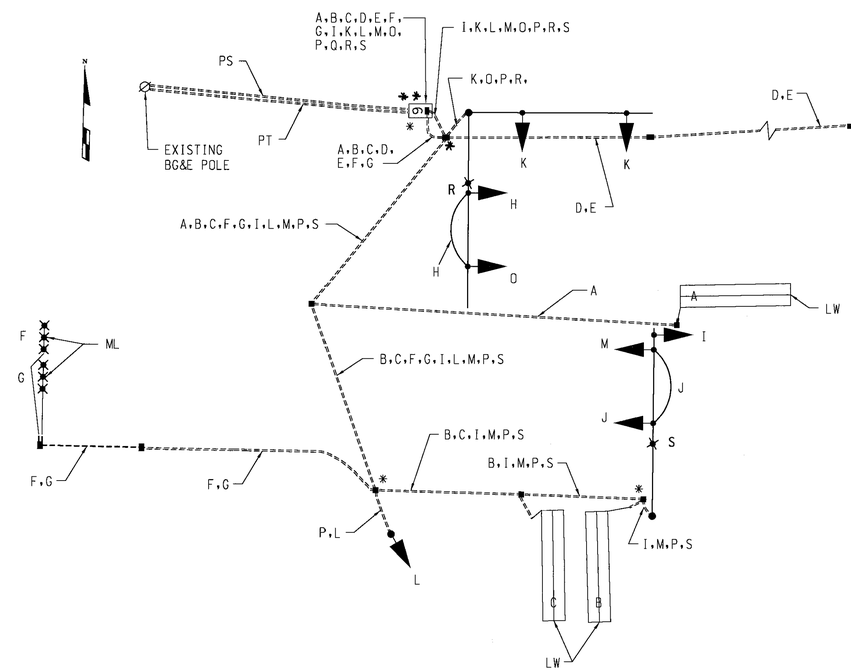
WIRING KEY

A,B,C	-	2 CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED NO.14 A.W.G.)
D,E,F,G	-	MICRO-LOOP PROBE LEAD-IN
H,J,L	-	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
I,K,M,O	-	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
P	-	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
Q	-	3" ELECTRICAL WIRE (NO. 4 A.W.G.)
R,S	-	2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
LW	-	LOOP WIRE (NO. 14 A.W.G.)
ML	-	MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
PS	-	PROPOSED UNDERGROUND ELECTRICAL SERVICE
PT	-	PROPOSED UNDERGROUND TELEPHONE SERVICE
*	-	3/4 IN. x 10 FT. GROUND ROD

PHASING CHART



	1	2	3	4	5	6	7	8	
PHASE 1 & 6	R	R	G	G	G	R	R	R	←
1 & 6 CHANGE	R	R	G	G	G	R	R	R	↓
PHASE 2 & 6	G	G	G	G	G	R	R	R	← →
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	
PHASE 4	R	R	R	R	R	G	G	G	↰
4 CHANGE	R	R	R	R	R	Y	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	↑ ↓



WIRING DIAGRAM

REVISIONS	APPROVALS
	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. DISTRICT ENGINEER, TRAFFIC
8 RELOC. AND RECONSTRUCT TRAFFIC SIGNAL DUE TO BA3335I72 CONSTRUCTION 12-12-2000 △ ADDENDUM NO. REPLACEMENT SHEET	ORIGINAL ON FILE
KJS/URS A AS BUILT 3-31-81 3-31-81	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
JBG	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

PREPARED BY
URS
HUNT VALLEY, MARYLAND

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 372 (WILKENS AVE) and I-695 SB RAMPS
SIGNALIZATION PLAN

DRAWN BY:	J. SCHROLL	F.A.P. NO.	SEE TITLE SHEET	1595B	SHEET NO.
CHECKED BY:	D. MONGAN	S.H.A. NO.	B548-501-485		
SCALE:	NOT TO SCALE	COUNTY:	BALTIMORE	T.I.M.S. NO.	
DATE:	01-05-79	LOG MILE:	0303720I.40	D453	2 OF

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