THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATIION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 140 (REISTERSTOWN ROAD) AND I-695 IN BALTIMORE COUNTY. MD 140 IS ASSUMED TO RUN IN A EAST / WEST DIRECTION.

INTERSECTION OPERATION

EAST INTERSECTION- USING THE EXISTING CABINET AND CONTROLLERS, NEW SPAN WIRE MOUNTED SIGNALS ARE TO BE INSTALLED. THE EAST INTERSECTION IS TO MAINTAIN CURRENT PHASING.

WEST INTERSECTION- INSTALL TEMPORARY CABINET AND CONTROLLERS. INSTALL NEW SPAN WIRE MOUNTED SIGNAL HEADS AND SIGNS. THE WEST INTERSECTION IS TO MAINTAIN CURRENT PHASING.

EQUIPMENT LIST

A. Equipment to be supplied by the Administration and installed by the Contractor.

Item #	Spec #	Item	units	1 west	1 east	2 west	2 east	Total
900000	900	Base mounted NEMA size "6" cabinet with controller & system package	EA	1	0	0	0	1
900000	900	Sheet aluminum sign to consist of:	SF	26.5	22.5	0	0	49
		R3-5(L) "LEFT ONLY" SIGN 30"x36" - SPAN MOUNTED	EA	2	2	0	0	4
		R3-6 "THRU-LEFT" SIGN 30"x36" - SPAN MOUNTED	EA	1	1	0	0	2
		R3-3 "NO TURNS" SIGN 24"x24" - SPAN MOUNTED	EA	1	0	0	0	1
		R10-11B "NO TURNS ON RED" SIGN 24"x24" - SPAN MOUNTED	EA	0	0	0	0	0
		SPECIAL #1 "THRU-RIGHT" SIGN 30"x36" - SPAN MOUNTED	EA	0	0	0	0	0
		R3-1 "NO RIGHT TURN"SIGN 36"x36" - BANDED TO POLE MOUNTED	EA	0	0	0	0	0
		R5-1 "DO NOT ENTER"SIGN 36"x36" - BANDED TO POLE MOUNTED	EA	0	0	0	0	0

B. Equipment to be furnished and installed by the Contractor.

Item #	Spec #	Item	units	1 west	1 east	2 west	2 east	Total
860265	814	Relocate existing signal head section	EA	0	0	0	6	6
801004	814	Furnish and install concrete for signal foundation	CY	4	0	0	0	4
870160	805	Furnish and install 2" schedule 80 rigid PVC conduit-trenched	LF	0	50	0	0	50
870163	805	Furnish and install 3" schedule 80 rigid PVC conduit-trenched	LF	60	10	0	0	70
870166	805	Furnish and install 4" schedule 80 rigid PVC conduit-trenched	LF	10	0	0	0	10
802501	810	Furnish and install no. 6 awg stranded bare copper ground wire	LF	70	62	0	0	132
869102	819	Furnish and install steel span wire-3/8 in. diameter	LF	270	290	0	0	560
800000	800	Furnish and install down guy & anchor.	LF	240	240	0	0	480
861107	810	Furnish and install electrical cable - 5 conductor (no. 14 awg)	LF	800	530	0	0	1330
871202	816	Install controller and cabinet - base mount	EA	1	0	0	0	1
838002	807	Furnish and install control and distribution equipment	EA	1	0	0	0	1
837001	804	Furnish and install ground rod - 3/4 inch diameter X 10 foot length	EA	2	0	0	0	2
811001	811	Furnish and install electrical handhole	EA	1	2	0	0	3
800000	800	Furnish and install 50ft wooden pole	EA	3	3	0	0	6
831010	806	Furnish and install 250 watt high pressure sodium lamp and luminaire	EA	4	3	0	0	7
866104	818	Furnish and install 20 ft. lighting arm	EA	4	3	0	0	7
861116	810	Furnish and install electric cable 2 conductor/no. 12 awg	LF	670	550	0	0	1220
861106	810	Furnish and install electric cable 3 conductor/no. 14 awg	LF	330	430	0	0	760
800000	800	Furnish and install video detection system with cameras	EA	1	1	0	0	2
800000	800	Furnish and install coaxial cable	LF	680	440	0	0	1120
813015	813	Install overhead sign	SF	26.5	22.5	0	0	49
805026	800	Furnish and install 3" schedule 80 riser	LF	40	40	0	0	80
800000	800	Furnish and install 12" vehicular traffic signal head section	EA	24	24	0	0	48
585445		24" white permanent preformed pavement marking tape	LF	25	35	0	25	85
800000	800	Remove and Reinstall existing I/C cable	LS	1	0	0	0	1
800000	800	Remove and dispose of existing materials	LS	1	0	0	0	1
800000	800	Removal of existing materials to be salvaged	LS	1	0	0	0	1
800000	800	Delivery of salvaged equipment	LS	1	0	0	0	1

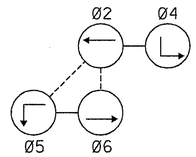
C. Equipment to be removed and salvaged by the Contractor.

Equipment to be delivered to Mr. Dave Schwartz at OOTS, 7491 Connelley Drive, Hanover, MD, 21076.
(Notify at least 72 hours of intended delivery at (419) 787-7658)

Item #	Spec #	Item	units	1 west	1 east	2 west	2 east	Total
800000	800	Base mounted NEMA size "6" cabinet with controller	EA	1	0	0	0	1

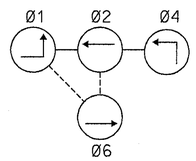
PHASE CHART

WEST INTERSECTION



	1	2	3	4	5	6	7	8
	R Y G	R Y G	~~R~~ ~~Y~~ ~~G~~	~~R~~ ~~Y~~ ~~G~~	R Y G	R Y G	R Y G	R Y G
PHASE 2 AND 5	R	R	~~G~~	~~G~~	G	G	R	R
2 AND 5 CHANGE	R	R	~~Y~~	~~Y~~	G	G	R	R
PHASE 2 AND 6	G	G	~~R~~	~~R~~	G	G	R	R
2 AND 6 CHANGE	Y	Y	~~R~~	~~R~~	Y	Y	R	R
PHASE 4	R	R	~~R~~	~~R~~	R	R	G	G
PHASE 4 CHANGE	R	R	~~R~~	~~R~~	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL ~~R~~	FL ~~R~~	FL/Y	FL/Y	FL/R	FL/R

EAST INTERSECTION

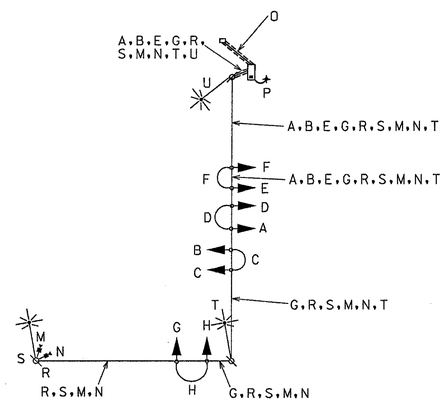


	1	2	3	4	5	6	7	8
	~~R~~ ~~Y~~ ~~G~~	~~R~~ ~~Y~~ ~~G~~	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G
PHASE 1 AND 6	~~G~~	~~G~~	G	G	R	R	R	R
1 AND 6 CHANGE	~~Y~~	~~Y~~	G	G	R	R	R	R
PHASE 2 AND 6	~~R~~	~~R~~	G	G	G	G	R	R
2 AND 6 CHANGE	~~R~~	~~R~~	Y	Y	Y	Y	R	R
PHASE 4	~~R~~	~~R~~	R	R	R	R	G	G
PHASE 4 CHANGE	~~R~~	~~R~~	R	R	R	R	Y	Y
FLASHING OPERATION	FL ~~R~~	FL ~~R~~	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

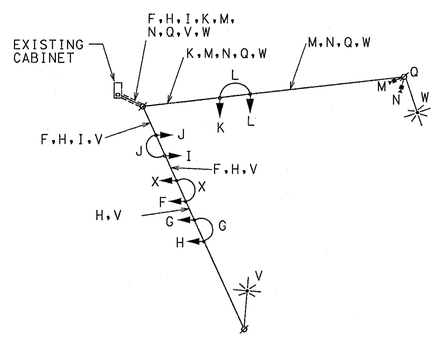
NOTE:
EXISTING INTERCONNECT TO BE MAINTAINED

WIRING DIAGRAM

WEST INTERSECTION



EAST INTERSECTION



WIRING KEY

A B C D E F G H I J K L X	5 CONDUCTOR CABLE (NO. 14 AWG)
M N	COAXIAL CABLE FOR VIDEO DETECTION
O	INTERCONNECT CABLE TO HOOKE'S LANE
P	1 CONDUCTOR BARE COPPER WIRE
Q R	3 CONDUCTOR CABLE (NO. 14 AWG)
S T U V W	2 CONDUCTOR (NO. 12 AWG) TRAY CABLE
+	GROUND ROD

STAGES 1&2

DWG NO. SS-4

TRANSCORE
6850 Versar Center, Suite 350
Springfield Virginia 22151
Phone: 703-658-4088

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 140 (REISTERSTOWN ROAD) AND I-695

DRAWN BY: J. JONES	F.A.P. NO.		TS NO. 936B-GI-XI	SHEET NO.
CHECKED BY: P. NELSON	S.H.A. NO.			
SCALE: NO SCALE	COUNTY:	BALTIMORE	T.I.M.S. NO. D-115	OF
DATE: 5-2000	LOG MILE:			