PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES SIGNAL MODIFICATION AT THE INTERSECTION OF MD 4 AT MD 2 IN CALVERT COUNTY. MD 4 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

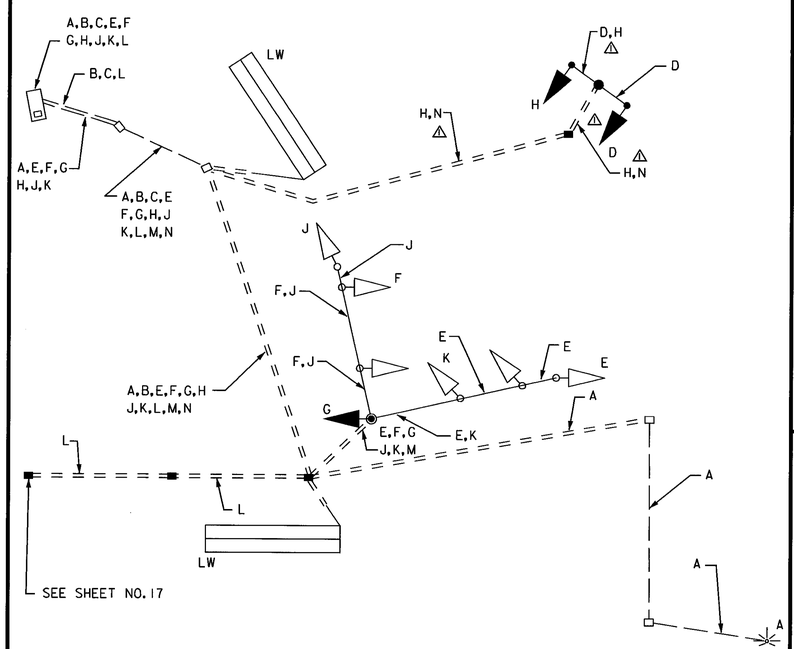
INTERSECTION OPERATION

NORMAL OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA-THREE-PHASE SEMI ACTUATED MODE. THE MOVEMENTS ON MD 4 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON MD 2 WILL OPERATE CONCURRENTLY.

SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

WIRING DIAGRAM



A	ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG)	L	12-PAIR COMMUNICATION CABLE, JELLYFILLED (NO. 19 AWG)
B,C	ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED NO. 14 AWG)	M,N	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
D	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)	LW	LOOP WIRE
E,F,G H,J,K	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)		

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

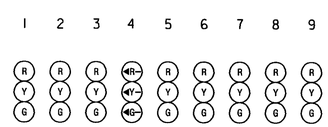
MARK COBLENTZ
ASSISTANT DISTRICT ENGINEER-CONSTRUCTION
PHONE: 410-841-1004

CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 410-841-1002

△1 KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 410-841-1003

JOHN MAYS
UTILITIES ENGINEER
PHONE: 410-841-1005

PHASE CHART



PHASE 1	G	G	G	◄R-	R	R	R	R	R	
1 CHANGE	Y	Y	Y	◄R-	R	R	R	R	R	
PHASE 2	R	R	R	◄G-	G	G	R	R	R	
2 CHANGE	R	R	R	◄Y-	Y	Y	R	R	R	
PHASE 3	R	R	R	◄R-	R	R	G	G	G	
3 CHANGE	R	R	R	◄R-	R	R	Y	Y	Y	
FLASHING OPERATION	FL Y	FL Y	FL Y	FL ◄R	FL R	FL R	FL / R	FL R	FL / R	

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
585624	556	50 L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
△1 801605	813	34 S.F.	SHEET ALUMINUM SIGN
△1 802501	805	440 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	805	27 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
△1 805140	805	423 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
△1 805155	805	235 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-SLOTTED
△1 805160	805	50 L.F.	1 IN. LIQUID TIGHT FLEXIBLE NON METALLIC CONDUIT
811001	811	4 EA.	ELECTRICAL HANDHOLE
△1 813014	813	34 S.F.	INSTALL GROUND MOUNTED SIGN
818010	818	1 EA.	14 FT. BREAKAWAY PEDESTAL POLE
822002	805	650 L.F.	12-PAIR COMMUNICATION CABLE, JELLYFILLED (NO. 19 AWG)
837001	804	2 EA.	GROUND ROD 3/4 IN. X 10 FT. LENGTH
860272	814	9 EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861104	810	360 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED NO. 14 AWG)
861107	810	30 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
△1 861108	810	1860 L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
861116	810	510 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG)
862101	805	920 L.F.	1/4 IN. LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	805	212 L.F.	SAW CUT FOR LOOP WIRE
800000	XXX	1 LS.	REMOVE AND DISPOSE OF EXISTING SIGNAL MATERIAL

EQUIPMENT LIST "C"

ALL REMOVED SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

△1 ADDENDUM NO. 1 2/10/03

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

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

△1 GENERAL INFORMATION SHEET
MD 4/ MD 2/ MD 262
GEOMETRIC IMPROVEMENTS

DRAWN BY: MB	F.A.P. NO. SEE TITLE SHEET	TS NO. 3531A-2	SHEET NO.
CHECKED BY: PDU	S.H.A. NO. AW-793- -585		
SCALE: NONE	COUNTY: CALVERT	T.I.M.S. NO.	19 OF 21
DATE: DECEMBER 2002	LOG MILE:		

I:\MD4-MD262\infogp02.dgn
MB
B:\PCDS15\tpentables\default-oca.tbl