PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE FINAL MODIFICATION FOR THE INSTALLATION OF THE ULTIMATE TRAFFIC CONTROL EQUIPMENT AT THE INTERSECTION OF DEMOCRACY BLVD. AND RAMP B FROM NB I-270. THE NB RAMPS ARE ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

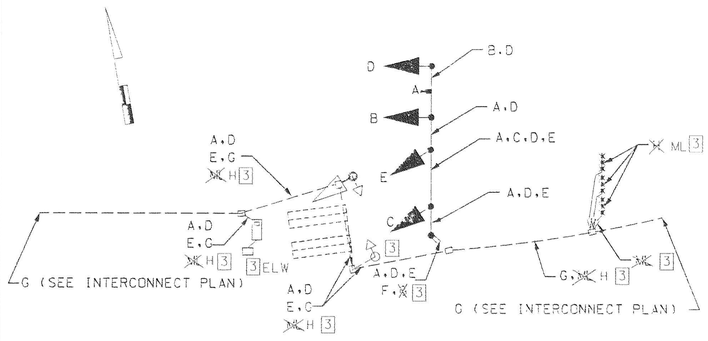
INTERSECTION OPERATION

NORMAL OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA-TWO PHASE, TRAFFIC ACTUATED MODE. THE MOVEMENTS ON DEMOCRACY BLVD. WILL OPERATE CONCURRENTLY AND THE APPRAOCH ON RAMP B WILL OPERATE CONCURRENTLY. INTERSECTION CONTROLLER WILL INTERCONNECT WITH NEW CONTROLLER AT THE INTERSECTION OF DEMOCRACY BLVD. AND RAMP B.

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 VIDEO TRAFFIC DETECTION CABLE

B, C ELECTRICAL CABLE 5-CONDUCTOR (NO 14 AWG.)

D, E ELECTRICAL CABLE 7-CONDUCTOR (NO 14 AWG.)

F NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

G 12-PAIR COMMUNICATION CABLE, JELLY FILLED

3 ML MICRO-LOOP PROBE SET

3 H MICRO-LOOP PROBE WITH 500 FT. LEAD-IN

3 ELW EXISTING LOOP WIRE

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
3 973023	813	5 ~~X~~ S.F.	SHEET ALUMINUM SIGN TO CONSIST OF: -1 EA. ~~R3-5~~ R10-11B (~~30~~ 24 IN. X ~~36~~ 30 IN.)
3 ~~900000~~	~~810~~	~~X~~ EA.	~~MICRO-LOOP PROBE SET 500 FT. LEAD-IN~~

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

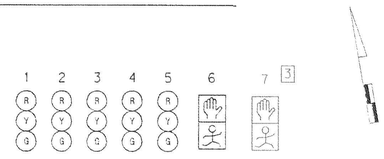
CHARLIE WATKINS
DISTRICT ENGINEER
PHONE: 301-513-7300

3 ~~RANDY BROWN~~ RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 301-513-7304

MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 301-513-7358

ALUGIE REBISH
ACTING DISTRICT UTILITIES ENGINEER
PHONE: 301-513-7350

PHASE CHART



		1	2	3	4	5	6	7	
3	PHASE 2 ~~X~~	G	G	R	R	R	WK	WK	
		G	G	R	R	R	FL/DW	FL/DW	
3	2 ~~X~~ CHANGE	Y	Y	R	R	R	DW	DW	
3	PHASE ~~X~~ 4	R	R	G	G	G	DW	DW	
3	~~X~~ 4 CHANGE	R	R	Y	Y	Y	DW	DW	
3	FLASHING OPERATION	FL Y	FL Y	FL R	FL R	FL R	DARK	DARK	

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
203030	205	.5 C.Y.	TEST PIT EXCAVATION
3 585450	~~XXX~~ 555	33 L.F.	REMOVAL OF EXISTING PAVEMENT MARKING
3 ~~585640~~ 585624	~~XXX~~ 556	40 L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
3 801004	~~818~~ 801	5 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802501	810	11 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
802145	811	2 EA.	REBUILD EXISTING HANDHOLE
805160	805	33 L.F.	1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
813010	813	1 EA.	BAND SIGN TO SIGN SUPPORT
813015	813	8 S.F.	INSTALL OVERHEAD SIGN
3 818052	818	1 EA.	~~27 FT.~~ STEEL POLE WITH A 70 FT. MAST ARM WITH 2 IN. X 90 IN. ANCHOR BOLT
822002	810	486 L.F.	12-PAIR COMMUNICATION CABLE, JELLY FILLED
831010	806	1 EA.	250 WATT HPS LIGHT AND LUMINAIRE WITH PHOTOCELL
837001	804	1 EA.	GROUND RODS - 3/4 IN. X 10 FT. LENGTH
860272	814	12 EA.	12 IN. VEHICULAR SIGNAL HEAD SECTION
861107	810	66 L.F.	ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG.)
861108	810	546 L.F.	ELECTRICAL CABLE-7 CONDUCTOR (NO. 14 AWG.)
861116	810	237 L.F.	2 IN CONDUIT TRAY CABLE
866104	818	1 EA.	20 FT. LIGHTING ARM ON SIGNAL STRUCTURE
3 ~~800000~~ 870163	805	11 L.F.	3 IN. SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
3 800000	810	3 EA.	~~INSTALL~~ MICRO-LOOP PROBE SET WITH 500 FT. LEAD IN
800000	810	281 L.F.	VIDEO TRAFFIC DETECTION CABLE
3 800000	827	1 ~~LS~~ EA.	VIDEO TRAFFIC DETECTION SYSTEM
3 ~~800000~~	~~XXX~~	~~X~~ EA.	~~2 IN. X 30 IN. ANCHOR BOLT~~
3 585620	556	60 L.F.	12 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING

EQUIPMENT LIST "C"

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

3 QUANTITY	DESCRIPTION
1 EA.	~~27 FT.~~ STEEL POLE WITH A 70 FT. MAST ARM
12 EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
1 EA.	20 FT. LIGHTING ARM
3 EA.	MICRO-LOOP PROBE SET
~~8~~ S.F.	SHEET ALUMINUM SIGN R3-5 (30 IN. X 36 IN.)

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

3 REDLINE NO. 3 09/19/2001

4 ADDENDUM NO. 4 03/08/2001 REPLACE OLD SHEET 239

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

REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

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

GENERAL INFORMATION SHEET
DEMOCRACY BOULEVARD AND WESTLAKE TERRACE
DEMOCRACY BLVD. AT RAMP B

DRAWN BY:	MB	F.A.P. NO.	SEE TITLE SHEET	3 TS NO.	SHEET NO.
CHECKED BY:	STB	S.H.A. NO.	M09025172	~~4932A~~ 4932B	
SCALE:	NONE	COUNTY:	MONTGOMERY	T.I.M.S. NO.	
DATE:	MARCH 2001	LOG MILE:	15Y27000.91	D 837	239 OF 296

TS 4932B

5:\I270 INT\d837gp03.dgn
5/15/2001 10:48:00 AM
h:\data\projects\default.cel