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 MD 450 AT HILLMEADE ROAD. MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

NORMAL OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULLY ACTUATED MODE. THE MOVEMENTS ON MD 450 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON HILLMEADE ROAD WILL OPERATE CONCURRENTLY. THE EXISTING INTERSECTION CONTROLLER WILL INTERCONNECT WITH NEW CONTROLLERS AT THE INTERSECTION OF MD 450 AT MD 193 AND AT THE INTERSECTION OF MD 450 AT HIGHBRIDGRE ROAD.

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.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
[5] 973023	813	44 S.F. ~~△26 S.F.~~	△ SHEET ALUMINUM SIGN TO CONSIST OF:
			[5] 2-~~X~~ EA. R10-12 (36 IN. X 42 IN.)-MAST ARM MOUNT
			[5] ~~-1 EA. R3-5L (30 IN. X 36 IN.) MAST ARM MOUNT~~
			-1 EA. D3-2 (16 IN. X VAR.)-MAST ARM MOUNT
			[5] -1 EA. R3-5R (30 IN. X 36 IN.)-MAST ARM MOUNT
			[5] -1 EA. R3-6L (30 IN. X 36 IN.)-MAST ARM MOUNT

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT •3 ARE AS FOLLOWS:

[1] ~~CHARLIE WATKINS~~
~~DISTRICT ENGINEER~~
~~PHONE: 301-513-7300~~

ROBERT SNYDER ASSISTANT DIVISION CHIEF
TRAFFIC OPERATION DIVISION
PHONE: 410-787-7630

RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 301-513-7304

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

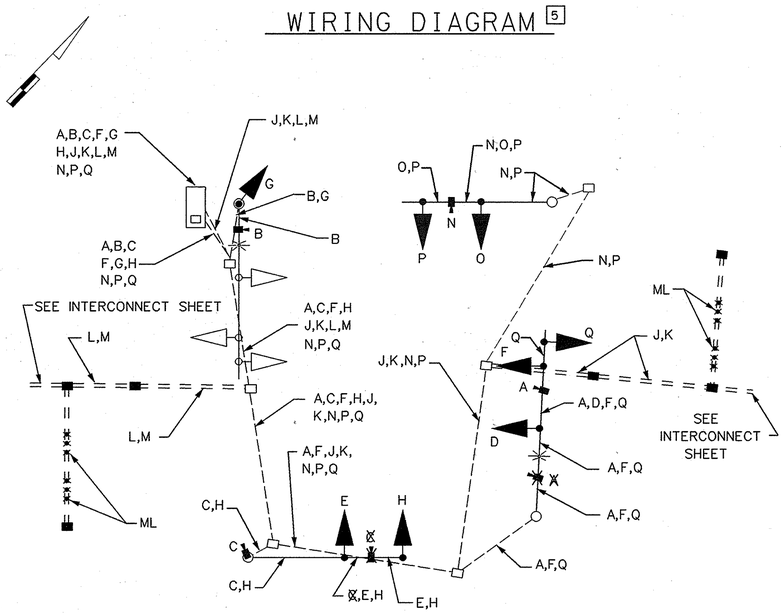
AUGIE REBISH
△ ASSISTANT DISTRICT ENGINEER-UTILITIES
PHONE: 301-513-7350

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
585450	555	△ 22 L.F.	REMOVAL OF EXISTING PAVEMENT MARKING ANY WIDTH
[5] ~~585624~~	~~556~~	~~△ 100 L.F.~~	~~24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING~~
811001	811	6 EA.	ELECTRICAL HANDHOLE
813015	813	△ 26 S.F.	INSTALL OVERHEAD SIGN
860270	814	[5] 6 ~~3~~ EA.	8 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860272	814	[5] 26 ~~18~~ EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	810	[5] 100 ~~70~~ L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
861108	810	[5] 1470 ~~720~~ L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
870164	805	△ 113 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-BORED
870166	805	△ 611 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
△ 800000	805	4 ~~3~~ EA.	RELOCATE EXISTING CAMERA
△ 800000	805	4 ~~3~~ EA.	REROUTE EXISTING CABLE
800000	810	4 EA.	MICRO-LOOP PROBE SET WITH 1000 FT. LEAD IN
△ 800000	XXX	1 L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL

WIRING DIAGRAM [5]



A,B,C,N VIDEO TRAFFIC DETECTOR CABLE

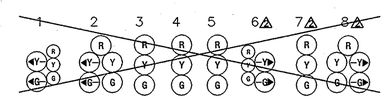
D,E ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)

F,G,H ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)

J,K
L,M MICRO-LOOP 1000 FT. LEAD IN

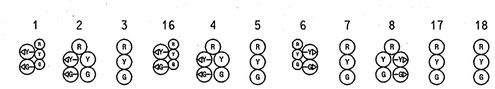
ML MICRO-LOOP NON INVASIVE PROBE SET

PHASE CHART [5]



	1	2	3	4	5	6△	7△	8△
PHASE 1+6 (LAG LEFT)	G	G	G	R	R	R	R	R
1+6 CHANGE	Y	Y	Y	R	R	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

△ △



	1	2	3	16	4	5	6	7	8	17	18
Phase 1 & 5	R G	R G	R	R G	R G	R	R G	R	R G	R	R
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6											
Phase 1 & 6	G G	G G	G	R	R	R	R G	R	R G	R	R
1 Change	G Y	G Y	G	R	R	R	R Y	R	R Y	R	R
Phase 2 & 5	R	R	R	G G	G G	G	R	R	R	R	R
5 Change	R	R	R	G Y	G Y	G	R	R	R	R	R
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "C"

C. ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

[5] REDLINE REVISION 5 DATE 10/8/03

[1] REDLINE NO. 1

△ ADDENDUM •2 10/11/2001

Redline Revision

The Traffic Group
The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

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

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

GENERAL INFORMATION SHEET
MD 450 - MD 193 TO STONYBROOK DRIVE
MD 450 AT HILLMEADE ROAD - ULTIMATE

DRAWN BY: MB	F.A.P. NO. SEE TITLE SHEET	TS NO. TS-1618B-2	SHEET NO.
CHECKED BY: STB	S.H.A. NO. PG9005571		
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO. D 538	408 OF 545
DATE: OCTOBER 2001	LOG MILE: 9.75		

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8/15/2003