

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES MODIFICATION AT THE INTERSECTION OF MD 140 AT ENGLAR RD IN CARROLL COUNTY. MD 140 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA-EIGHT-PHASE SEMI-ACTUATED MODE. THE MOVEMENTS ON MD 140 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON ENGLAR RD WILL OPERATE SPLIT PHASED.

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 SHA

NONE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
585624	556	70 L.F.	24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
805115	805	160 L.F.	3 IN. SCHEDULE 80 RIGID PVC CONDUIT-BORED
805160	805	10 L.F.	1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810605	810	4 EA.	NONINVASIVE DETECTOR, 1000 FT. LEAD IN CABLE
811001	811	2 EA.	ELECTRICAL HANDHOLE
862101	805	825 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	805	240 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

RICHARD DAFF SR, CHIEF
TRAFFIC OPERATIONS DIVISION
PHONE: 410-787-7630

ED RODENHIZER, CHIEF
SIGNAL OPERATIONS SECTION
PHONE: 410-787-7652

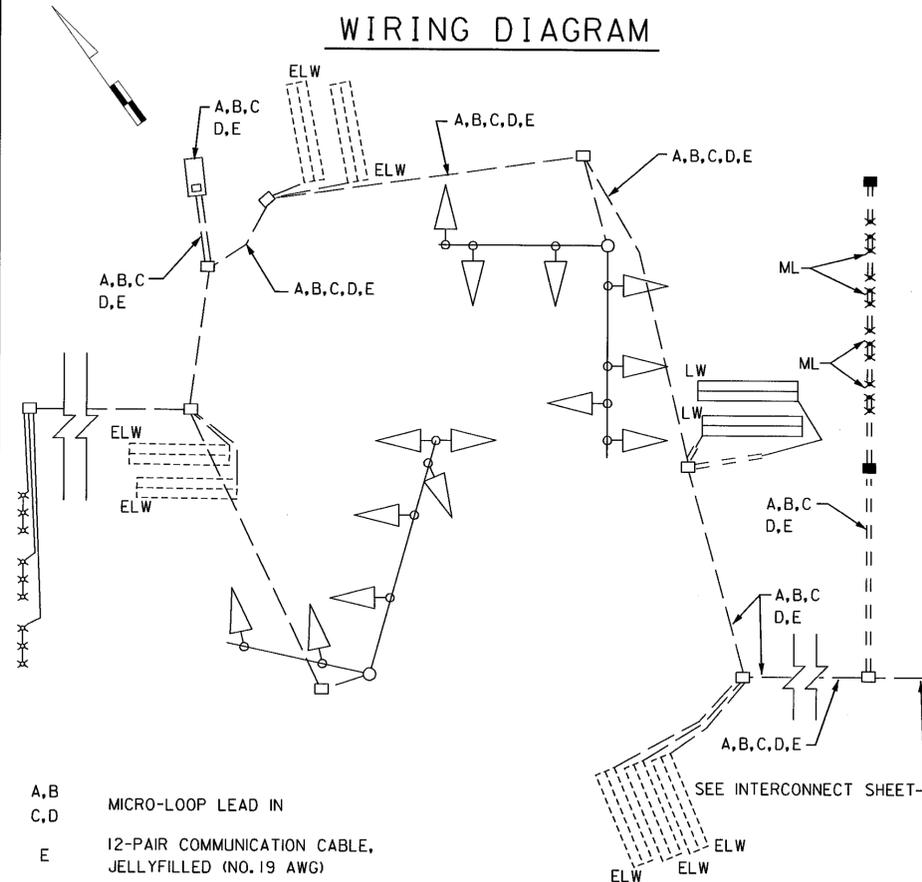
MARK FLACK
ASSISTANT DISTRICT ENGINEER-CONSTRUCTION
PHONE: 301-624-8201

JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 301-624-8141

DAVE COYNE
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 301-624-8106

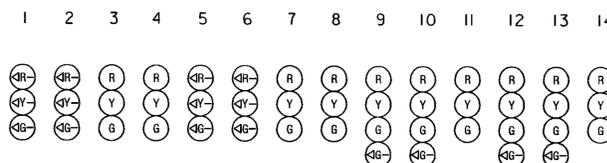
JIM BUCKALEW
DISTRICT UTILITIES ENGINEER
PHONE: 301-624-8110

WIRING DIAGRAM



- A, B MICRO-LOOP LEAD IN
- C, D 12-PAIR COMMUNICATION CABLE, JELLYFILLED (NO. 19 AWG)
- E
- ML MICRO-LOOP NON INVASIVE PROBE SET
- LW LOOP WIRE
- ELW EXISTING LOOP WIRE

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1+5	◀G	◀G	R	R	◀G	◀G	R	R	R	R	R	R	R	R
1+5 CHANGE	◀Y	◀Y	R	R	◀Y	◀Y	R	R	R	R	R	R	R	R
PHASE 1+6	◀G	◀G	G	G	◀R	◀R	R	R	R	R	R	R	R	R
1+6 CHANGE	◀Y	◀Y	Y	Y	◀R	◀R	R	R	R	R	R	R	R	R
PHASE 2+6	◀R	◀R	G	G	◀R	◀R	G	G	R	R	R	R	R	R
2+6 CHANGE	◀R	◀R	Y	Y	◀R	◀R	Y	Y	R	R	R	R	R	R
PHASE 2+5	◀R	◀R	R	R	◀G	◀G	G	G	R	R	R	R	R	R
2+5 CHANGE	◀R	◀R	R	R	◀Y	◀Y	Y	Y	R	R	R	R	R	R
PHASE 4	◀R	◀R	R	R	◀R	◀R	R	R	◀G	◀G	G	R	R	R
4 CHANGE	◀R	◀R	R	R	◀R	◀R	R	R	Y	Y	Y	R	R	R
PHASE 3	◀R	◀R	R	R	◀R	◀R	R	R	R	R	R	◀G	◀G	G
3 CHANGE	◀R	◀R	R	R	◀R	◀R	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL													

EQUIPMENT LIST "C"

C. ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

ADDENDUM NO. 2
REPLACEMENT SHEET
05/29/03

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

GENERAL INFORMATION SHEET
REPLACEMENT BRIDGE NO. 6032 ON MD 140 OVER MD 27, WEST BRANCH AND MD MIDLAND RAILROAD AND BRIDGE NO. 6041 ON MD 140 OVER MD 97 MD 140 AT ENGLAR ROAD

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

DRAWN BY: MB	F.A.P. NO. SEE TITLE SHEET	TS NO.
CHECKED BY: RF	S.H.A. NO. CL8445170	SHEET NO.
SCALE: NONE	COUNTY: CARROLL	T.I.M.S. NO.
DATE: APRIL 2003	LOG MILE:	240 OF 282