DRILL HOLES

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PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 97 AND OLD FREDERICK ROAD IN HOWARD COUNTY. MD 97 IS ASSUMED TO RUN IN A NORTH SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE–PHASE, FULLY–TRAFFIC–ACTUATED MODE. VIDEO CAMERA DETECTION WILL BE USED TO ACTIVATE THE SIDE ROAD AND MICROLOOP PROBES WILL BE USED FOR THE MD 97 APPROACHES.

SPECIAL NOTE

1. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MDSHA AT (410) 787–7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.
2. STREET LIGHTING SHALL BE PROVIDED BY THE LOCAL UTILITY COMPANY FOR SHA LEASE LIGHTING REQUEST.

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787–7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787–7631

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
(410) 787–7652

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
(410) 787–7676

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787–7668

CONTACT PERSONS FOR DISTRICT 7 ARE AS FOLLOWS:

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER – TRAFFIC
(301) 624–8140 / 8141

MS. ANDREA ABEND
ASSISTANT DISTRICT ENGINEER – UTILITIES
(301) 624–8115 / 8116

MR. RAYMOND F. JOHNSON
ASSISTANT DISTRICT ENGINEER – MAINTENANCE
(301) 624–8105 / 8106

CONTACT FOR HOWARD COUNTY

MR. JIM IRVIN
DIRECTOR OF PUBLIC WORKS
(410) 313–6139

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

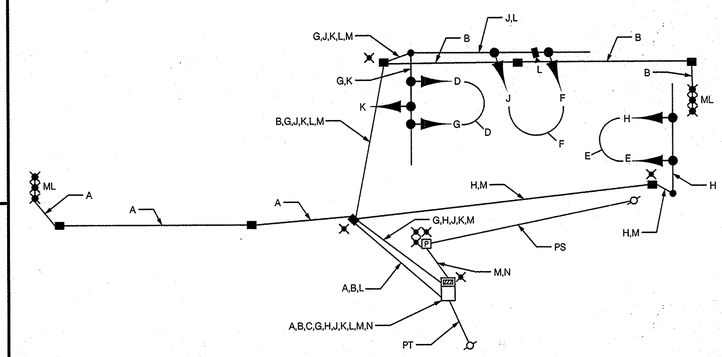
ITEM NO.	QUANTITY	DESCRIPTION
9044	1 EA	EIGHT PHASE FULLY ACTUATED NEMA TYPE 6 CABINET AND CONTROLLER EQUIPMENT
9570	39 SF	SHEET ALUMINUM GROUND MOUNTED SIGNS
	3 EA	W3–3 (36" X 36") WITH "NEW" PANEL (24" X 24") – GROUND MOUNT
9571	26.5 SF	SHEET ALUMINUM OVERHEAD MOUNTED SIGNS
	1 EA	M95–2 (72" X 24") SIGN – POLE MOUNT
	1 EA	R10–11B (24" X 24") SIGN – MAST ARM MOUNT
	1 EA	D3–2 DUAL FACE SIGN (VAR." X 16") SIGN – MAST ARM MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	.5 CY	TEST PIT EXCAVATION
5002	150 LF	REMOVE EXISTING PERMANENT PAVEMENT LINE MARKINGS
5005	40 LF	24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
8001	21 EA	12 INCH LED SIGNAL HEAD SECTION
8016	1 EA	15 FT. SPECIAL "T" MAST ARM POLE & 38 FT. MAST ARM
8021	2 EA	NON–INVASIVE MICRO–LOOP PROBE SET WITH 600 FT. LEAD–IN CABLE
8025	1 EA	16.5 FT. SPECIAL "T" MAST ARM POLE & 50 FT./50 FT. MAST ARMS
8027	1 EA	VIDEO DETECTION CAMERA WITH 200 FT. LEAD IN CABLE
8036	830 LF	3 IN. SCHEDULE 80 RIGID PVC CONDUIT– TRENCHED
8036	40 LF	2 IN. SCHEDULE 80 RIGID PVC CONDUIT– TRENCHED
8036	70 LF	4 IN. SCHEDULE 80 RIGID PVC CONDUIT– TRENCHED
8037	185 LF	4 IN. SCHEDULE 80 RIGID PVC CONDUIT– BORED
8037	80 LF	3 IN. SCHEDULE 80 RIGID PVC CONDUIT– BORED
8038	35 LF	WOOD SIGN SUPPORTS UP TO 4 IN.X 4 IN.
8040	65.5 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8042	150 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8044	1 EA	METERED SERVICE PEDESTAL EMBEDDED
8046	45 LF	ELECTRICAL CABLE 1 – CONDUCTOR NO. 4 AWG – THHN /THWN
8048	9 EA	ELECTRICAL HANDHOLE
8053	3 EA	CUT, CLEAN, GALAVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8057	50 LF	ELECTRICAL CABLE 5 – CONDUCTOR (NO 14 AWG)
8058	445 LF	ELECTRICAL CABLE 7 – CONDUCTOR (NO 14 AWG)
8065	1 EA	INSTALL CONTROLLER AND CABINET – BASE MOUNT

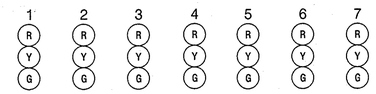
WIRING DIAGRAM



WIRING KEY

A,B,C	MICRO–LOOP PROBE LEAD–IN
D,E,F	5–CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
G,H,J,K	7–CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
L	VIDEO DETECTION CABLE
M	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
N	1–CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G. 3–WIRE.)
ML	MICRO–LOOP PROBE
PS	PROPOSED UNDERGROUND ELECTRIC SERVICE
PT	PROPOSED TELEPHONE
X	GROUND ROD

PHASING CHART



PHASE 2 & 6	G	G	G	G	G	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R
PHASE 8	R	R	R	R	R	G	G
PHASE 8 CHANGE	R	R	R	R	R	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR

TOD NO: AX142-24M
SHA NO:HO407A55/B55
MD 97@ OLD FREDERRICK RD

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN

MD 97 & OLD FREDERICK ROAD

COOKSVILLE, MARYLAND

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923–7101
FAX: (410) 923–6473
EMAIL: TRAFFIC@TRAFFIC–CONCEPTS.COM

SCALE NONE DATE 10–9–08 CONTRACT NO. AX1425185

DESIGNED BY M.ROSEN /S.RENZI
DRAWN BY M. ROSEN
CHECKED BY S. RENZI
F.A.P. NO. N/A
COUNTY HOWARD
LOGMILE 13009707.46
T.I.M.S. NO. I–997
TOD NO.

DRAWING NO. TS–4679 GI

SHEET NO. 2 OF 2

FILE PATH: L:\1000\1039\Task 119–MD 97\DGN\signal.dgn
DATE: Friday, October 10, 2008 AT 10:17 AM