PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF MD 355 AT SCHIFFERSTADT BOULEVARD IN FREDERICK COUNTY.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A FULLY-ACTUATED MODE USING 4 NEMA PHASES. MD 355 THROUGH MOVEMENTS NORTHBOUND AND SOUTHBOUND WILL OPERATE CONCURRENTLY. PEDESTRIAN INDICATIONS WILL BE PROVIDED TO CROSS THE EAST LEG OF MD 355 AND WILL OPERATE CONCURRENTLY.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. R. FISHER, DISTRICT ENGINEER
PHONE: (301) 624-8101
MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8141
MR. LEON KERNS, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 624-8106
MR. JAMES BUCLALEW, ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE:(301) 624-8116
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE:(410) 787-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL:
104.00 - 30, 104.12 - 01, 104.13 - 01, 104.31 - 01, 104.32 - 01, 104.34, 104.81- 02

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9081	CABINET INTERSECTION MONITOR SIZE 6	EA	1
9090	FLAT SHEET ALUMINUM SIGNS, (BLUE OR GREEN)	SF	66.5
	R10-12 (36"X42")	EA	1
	R4-7 (36"X36")	EA	1
	W3-3 (36"X36")	EA	2
	D3-2 (VAR.X16") DUAL FACE	EA	1
	D3-2 (VAR.X16")	EA	1
	M95-1 (78"X24")	EA	1

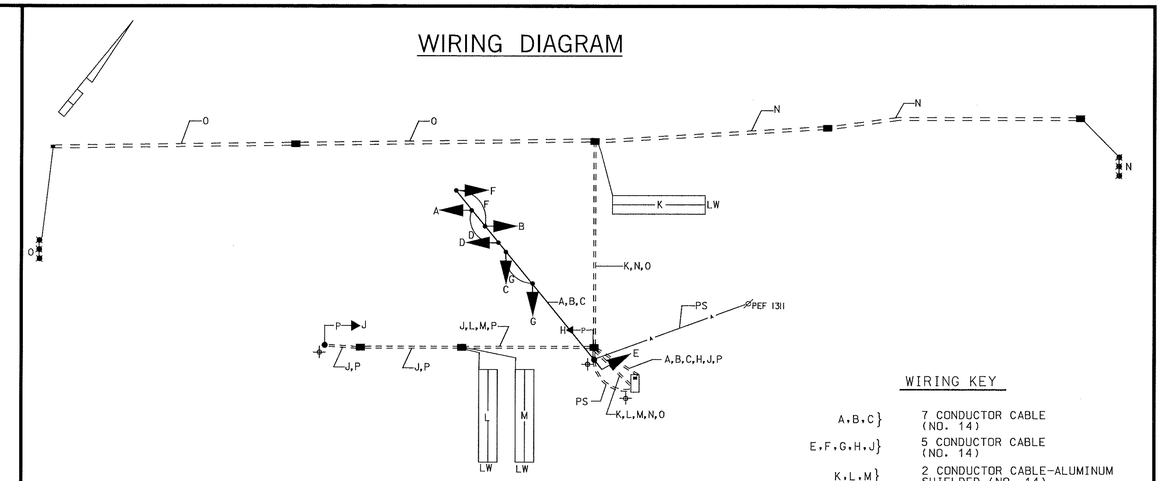
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
2004	TEST PIT EXCAVATION	CY	2
5004	F&I 12" WHITE HEAT APPL. THERMO. PAVEMENT MARK.	LF	140
5005	F&I 24" WHITE HEAT APPL. THERMO. PAVEMENT MARK.	LF	73
8009	F&I 12" PEDESTRIAN SIGNAL HEAD SECTION	EA	4
8010	F&I 12" SIGNAL HEAD SECTION	EA	22
8018	F&I 8" SIGNAL HEAD SECTION	EA	3
8019	F&I BREAKAWAY PED POLE - ANY SIZE (10 FT.)	EA	1
8023	F&I MAST ARM POLE AND 70' MAST ARM	EA	1
8028	F&I PROBE W/1000' LEAD IN	EA	2
8042	F&I 2" SCHED. 80 PVC CONDUIT - TRENCHED	LF	850
8044	F&I 3" SCHED. 80 PVC CONDUIT - TRENCHED	LF	55
8046	F&I 4" SCHED. 80 PVC CONDUIT - TRENCHED	LF	60
8049	F&I CONCRETE FOR SIGNAL FOUNDATIONS	CY	5.32
8051	F&I 4'X6' WOOD SIGN SUPPORT	LF	62
8052	F&I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	200
8059	F&I 4" SCHED. 80 PVC CONDUIT - SLOTTED	LF	150
8060	F&I 1" NON-METALLIC CONDUIT - SLEEVE	LF	25
8061	F&I 1-COND., NO. 4 AWG ELECT. CABLE	LF	100
8063	F&I HANDHOLE	EA	8
8065	F&I GROUND MOUNTED SIGN	SF	48
8066	INSTALL OVERHEAD SIGN	SF	18.5
8071	F&I GROUND ROD	EA	3
8072	F&I CONTROL AND DISTRIBUTION EQUIPMENT	EA	1
8073	F&I 2-CONDUCTOR CABLE -ALUMINUM SHIELDED (NO. 14 AWG)	LF	220
8076	F&I 5-COND., NO. 14 AWG ELECT. CABLE	LF	125
8077	F&I 7-COND., NO. 14 AWG ELECT. CABLE	LF	300
8078	F&I LOOP WIRE	LF	1300
8079	F&I SAWCUT	LF	425
8084	INSTALL CONTROLLER AND CABINET - BASE MT.	EA	1

C. MATERIALS TO BE REMOVED AND RETURNED TO SHA.
ALL EXISTING SIGNAL MATERIAL ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

NONE

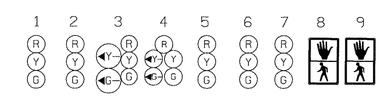
WIRING DIAGRAM



WIRING KEY

A,B,C}	7 CONDUCTOR CABLE (NO. 14)
E,F,G,H,J}	5 CONDUCTOR CABLE (NO. 14)
K,L,M}	2 CONDUCTOR CABLE-ALUMINUM SHIELDED (NO. 14)
N,O}	MICRO LOOP DETECTOR CABLE LEAD-IN
P -	BARE COPPER GROUND WIRE STRANDED (NO. 6 awg.)
LW -	LOOPWIRE
⏚ -	GROUND ROD
PS -	POWER SERVICE

PHASE CHART



	1	2	3	4	5	6	7	8	9	
PHASE 2 AND 5	R	R	◄G/G	◄G/G	G	R	R	DW	DW	← ↓
2 AND 5 CHANGE	R	R	◄Y/G	◄Y/G	Y	R	R	DW	DW	
PHASE 2 AND 6	G	G	G	G	G	R	R	WK	WK	← →
PED CLEARANCE	G	G	G	G	G	R	R	FL/DW	FL/DW	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	DW	DW	
PHASE 4	R	R	R	R	R	G	G	DW	DW	↑
4 CHANGE	R	R	R	R	R	Y	Y	DW	DW	
FLASHING OPERATION	FL /Y	FL /Y	FL /Y	FL /Y	FL /Y	FL /Y	FL /R	DARK	DARK	↑ ← →

SABRA, WANG & ASSOCIATES, INC.
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WWW.SABRA-WANG.COM

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

MD 355 (NORTH MARKET SREET) AND SCHIFFERSTADT BOULEVARD

DRAWN BY:	M. RAFFLE	F.A.P. NO.	ER 360(ASG)(BGR)	TS NO. 4105	SHEET NO.
CHECKED BY:	S. RENZI	S.H.A. NO.			
SCALE:	1" = 20'	COUNTY:	FREDERICK	T.I.M.S. NO. E-590	2 OF 2
DATE:	MAY, 2001	LOG MILE:			

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