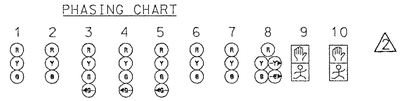
PHASING CHART

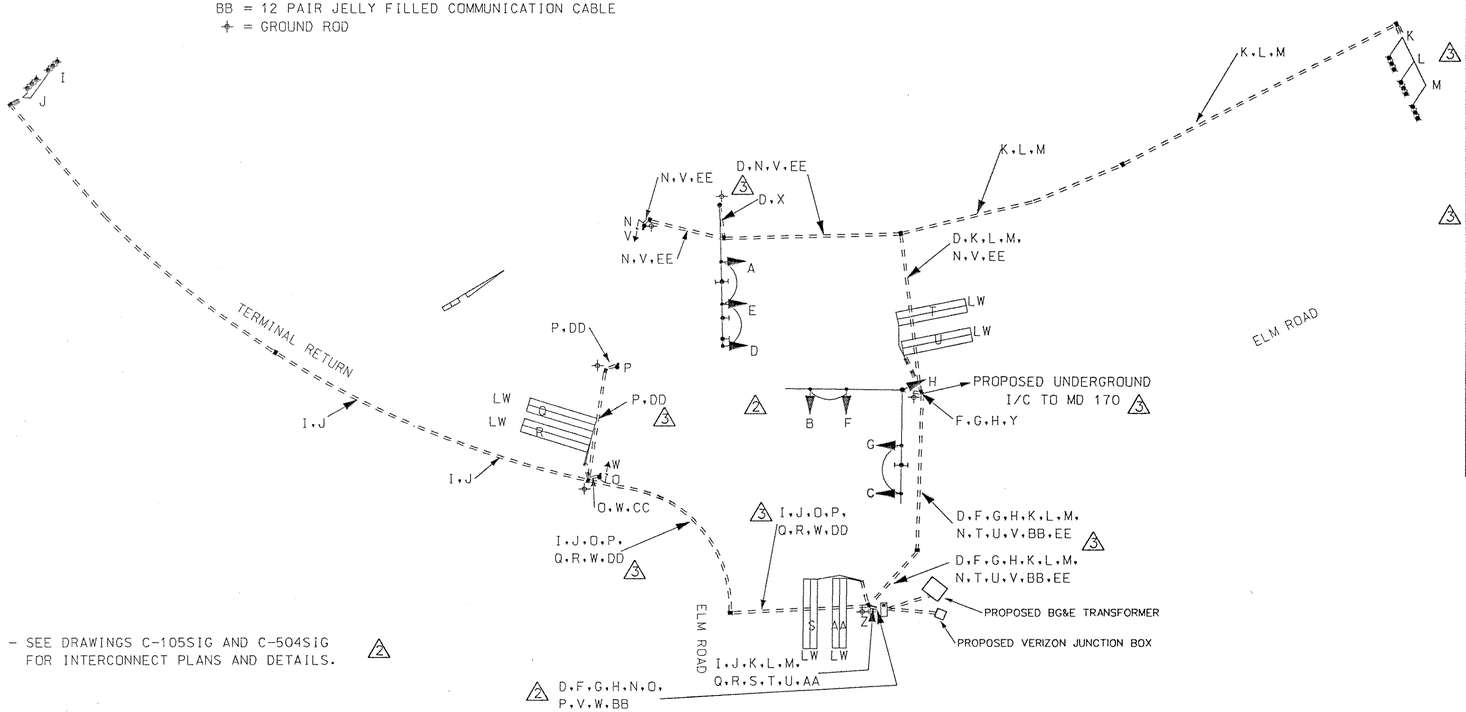


	1	2	3	4	5	6	7	8	9	10
PHASE 1	G	G	R	R	R	R	R	R	DW	DW
1 CHANGE	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 2	R	R	G	G	G	G	R	R G	DW	DW
2 CHANGE	R	R	Y	Y	Y	Y	R	R Y	DW	DW
PHASE 4	R	R	R	R	R	R	G	G	DW	DW
4 CHANGE	R	R	R	R	R	R	Y	Y	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK

ALTERNATE PHASE 3	R	R	R	R	R	R	R	R G	WK	WK
ALTERNATE PED CLR	R	R	R	R	R	R	R	R G	FL/DW	FL/DW
ALTERNATE CHANGE	R	R	R	R	R	R	R	R Y	DW	DW

WIRING DIAGRAM: TERMINAL RETURN AND ELM ROAD

A,B,C = 5 CONDUCTOR (NO. 14 AWG)
D,E,F,G,H = 7 CONDUCTOR (NO. 14 AWG)
I,J,K,L,M = MICROLOOP PROBE CABLE
N,O,P = 2 CONDUCTOR (NO. 14 AWG)
Q,R,S,T,U,AA = 2 CONDUCTOR ALUMINUM SHIELDED
V,W = 3 CONDUCTOR (NO. 14 AWG)
LW = LOOP WIRE
X,Y,Z,CC,DD,EE = STANDED BARE COPPER GROUND WIRE
BB = 12 PAIR JELLY FILLED COMMUNICATION CABLE
⏚ = GROUND ROD



- SEE DRAWINGS C-105SIG AND C-504SIG FOR INTERCONNECT PLANS AND DETAILS.

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A T-INTERSECTION DUE TO THE REALIGNMENT OF ELM ROAD. THIS SIGNAL WILL OPERATE AS A SPLIT PHASE. THIS SIGNAL WILL OPERATE TEMPORARILY UNTIL THE NEW STONEY RUN OFF SITE RENTAL CAR FACILITY OPENS.

EQUIPMENT LIST "A"

EQUIPMENT TO BE FURNISHED BY SHA

CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
900000	EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A NEMA SIZE 6	EA	1
	BASE MOUNTED CABINET WITH INTERSECTION MONITOR WITH BATTERY BACK UP		
	AND TWO (2) 4-CHANNEL DETECTOR AMPLIFIERS (RACK MOUNT)		

EQUIPMENT LIST "B"

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
800000	FURNISH AND INSTALL 27' STEEL POLE WITH 60' MAST ARM, PAINTED BLACK	EA	1
800000	FURNISH AND INSTALL 27' STEEL POLE WITH TWIN 50'-60' MAST ARMS,	EA	1
	PAINTED BLACK		
800000	CUT, CLEAN, GALVANIZE AND CAP SIGNAL STRUCTURE	EA	3
800000	FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	820
800000	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	85
800000	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	70
800000	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD	EA	29
	SECTION, BLACK FACE		
800000	MICROLOOP PROBE SET WITH 1000' LEAD-IN	EA	5
800000	FURNISH AND INSTALL 10' PEDESTAL POLE, PAINTED BLACK	EA	3
801004	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION	CY	16
801605	FURNISH AND INSTALL SHEET ALUMINUM SIGN	SF	40
802501	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	600
805011	FURNISH AND INSTALL 1" ELECTRICAL CONDUIT GALVANIZED SLEEVE	LF	76
805118	FURNISH AND INSTALL 4" SCHEDULE 80, RIGID PVC CONDUIT - BORED	LF	285
805160	FURNISH AND INSTALL 1" LIQUID TIGHT, FLEXIBLE NON-METALLIC	LF	35
	CONDUIT FOR DETECTOR SLEEVE		
807205	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT	EA	1
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	13
813002	FURNISH AND INSTALL MAST ARM MOUNTED SIGN HARDWARE	EA	6
837001	FURNISH AND INSTALL GROUND ROD - 3/4" DIAMETER BY 10' LENGTH	EA	6
860148	FURNISH AND INSTALL 12" PEDESTRIAN SIGNAL HEAD SECTION	EA	4
	PEDESTAL MOUNT		
861104	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR	LF	685
	(ALUMINUM SHIELDED)		
861107	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	70
861108	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1120
861116	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	875
861106	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)	LF	590
862101	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING	LF	3050
	(NO. 14 AWG)		
862102	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	815
865001	FURNISH AND INSTALL PUSHBUTTON AND SIGN	EA	3
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

ADD 2 11/21/00 MISCELLANEOUS CHANGES
ADD 3 12/6/00 MISCELLANEOUS CHANGES

C-502SIG

REVISIONS

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
SIGNAL GENERAL INFORMATION
TERMINAL RETURN ROAD AND ELM ROAD

DRAWN BY: BCP	F.A.P. NO.		TS NO. TS 4045	SHEET NO.
CHECKED BY: DMG	S.H.A. NO.			
SCALE: NONE	COUNTY:	ANNE ARUNDEL	T.I.M.S. NO. E167	99 OF 287
DATE: 10/3/2000	LOG MILE:			