PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES A PHASING MODIFICATION TO THE OPERATION OF THE INTERSECTION MD 144 (FREDERICK ROAD) AND MD 166 (ROLLING ROAD) IN BALTIMORE COUNTY.

MD 144 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

II. INTERSECTION OPERATION

THE SIGNAL WILL CONTINUE TO OPERATE IN A NEMA SIX (6) PHASE, FULL-TRAFFIC ACTUATED MODE. THE MD 144 APPROACHES WILL OPERATE CONCURRENTLY, WITH EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR EASTBOUND AND WESTBOUND MD 144.

THE MD 166 AND THE ENTRANCE TO HILLCREST ELEMENTARY SCHOOL APPROACHES SHALL BE A SPLIT PHASE.

THE EASTBOUND RIGHT TURN, EXCLUSIVE/PERMISSIVE MOVEMENT SHALL BE PROVIDED TO OPERATE WITH THE ROLLING ROAD SPLIT PHASE.

THE PEDESTRIAN PHASE, WHEN CALLED, WILL OPERATE SEPARATELY.

THE EXISTING EIGHT PHASE FULLY- TRAFFIC- ACTUATED CONTROLLER HOUSED IN A POLE-MOUNTED CABINET WILL REMAIN AT THE INTERSECTION, AND SHALL BE MODIFIED FOR THE PHASING CHANGES.

EQUIPMENT LIST

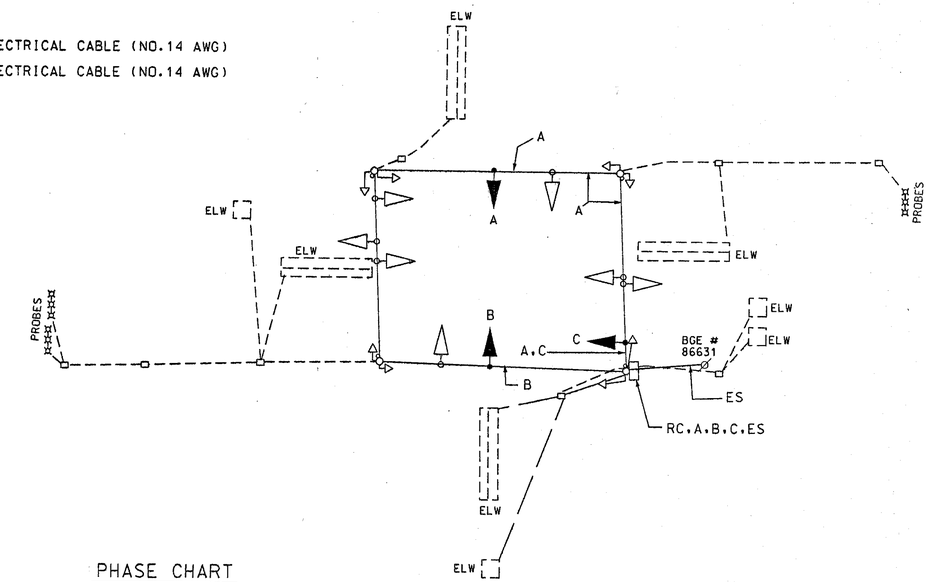
A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE SHA FORCES

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC.
9000	3 EA	REMOVE AND DISPOSE OF THE THREE-SECTON SIGNAL HEADS.
9000	30 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO.14 AWG.
9002	2 EA	NEMA LOAD SWITCH, WIRE CONTROLLER FOR PHASE CHANGE
9006	7 EA	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION.
9034	6 EA	FURNISH AND INSTALL 8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION.

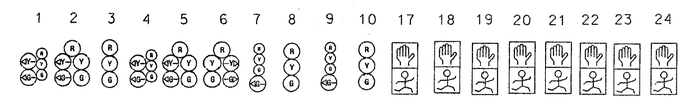
WIRING KEY

A,B - EXISTING 7- CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
C - PROPOSED 7- CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
RC - REMAINING CABLES
ES - EXISTING SERVICE

WIRING DIAGRAM



PHASE CHART



	1	2	3	4	5	6	7	8	9	10	17	18	19	20	21	22	23	24
PHASE 1 & 5	R/G	R/G	R	R/G	R/G	R	R	R	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 1 & 5	CHANGE TO PHASE 1 & 6 OR 2 & 5 OR 2 & 6										D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 1& 6	R	R	R	G/G	G/G	G	R	R	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 1 CHANGE	R	R	R	G/Y	G/Y	G	R	R	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 2 & 5	G/G	G/G	G	R	R	R	R	R	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 5 CHANGE	G/Y	G/Y	G	R	R	R	R	R	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 2&6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 3	R	R	R	R	R	R	R	R	G/G	G	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 4	R	R	R	R	R	G/R	G/G	G	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 4 CHANGE	R	R	R	R	R	Y/R	Y	Y	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
PHASE 8	R	R	R	R	R	R	R	R	R	R	WALK	WALK	WALK	WALK	WALK	WALK	WALK	WALK
PED CLEAR	R	R	R	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW
PHASE 8 CHANGE	R	R	R	R	R	R	R	R	R	R	D/W	D/W	D/W	D/W	D/W	D/W	D/W	D/W
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

SIGNAL HEADS NUMBERED 11-16 ARE THE HIB'S YELLOW FLASHING, AND OPERATE INDEPENDENTLY FROM THE INTERSECTION.

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

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

MD 144 & MD 166 / ENTRANCE TO HILLCREST ELEM. SCHOOL

DRAWN BY: E. MILESKY	F.A.P. NO.		TS NO. TS-3191G	SHEET NO.	
CHECKED BY: T. HOLLOWAY	S.H.A. NO.				
SCALE: NONE	COUNTY:	BALTIMORE	T.I.M.S. NO. 0858	2 OF 2	
DATE: 2-18-05	LOG MILE:	03014402.72			