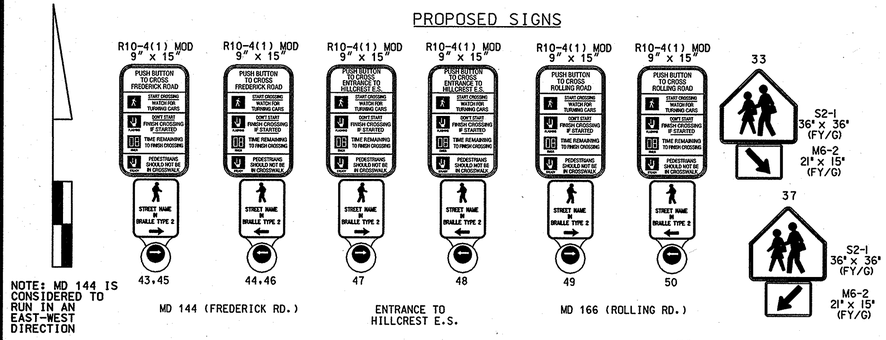
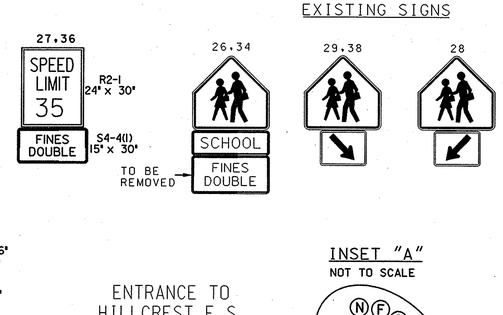
DRILL HOLES

BORDER REV: DATE: June 1, 2004

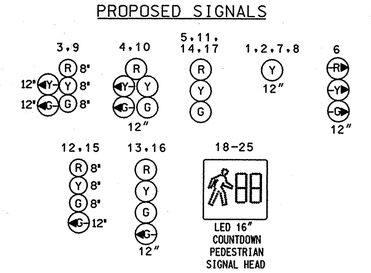
PROPOSED SIGNS



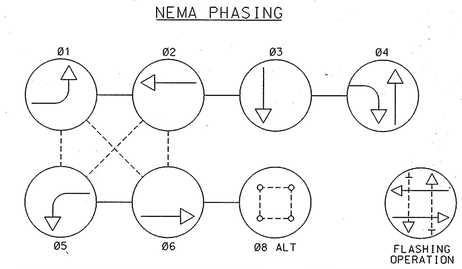
EXISTING SIGNS



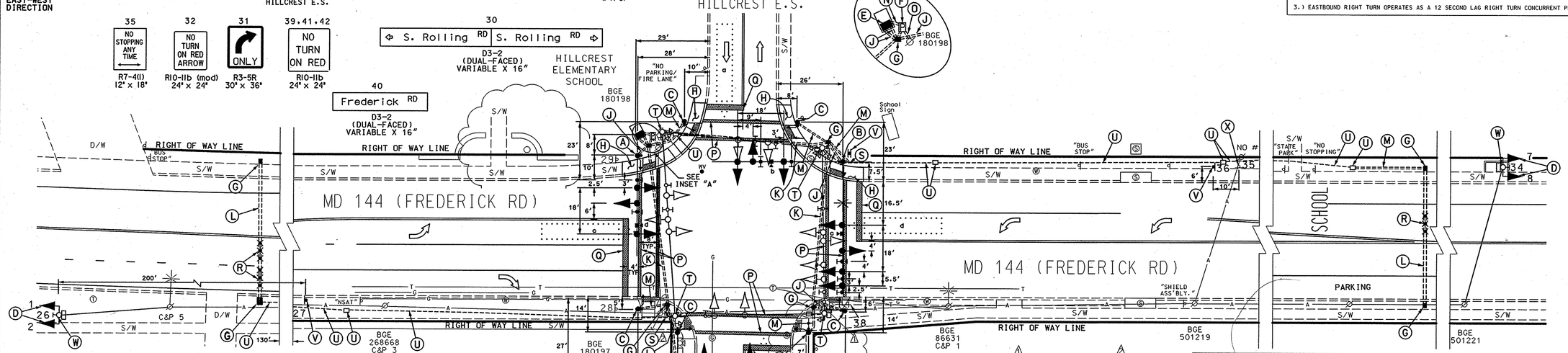
PROPOSED SIGNALS



NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
3.) EASTBOUND RIGHT TURN OPERATES AS A 12 SECOND LAG RIGHT TURN CONCURRENT PHASE.



CONSTRUCTION DETAILS

A. Install 21' steel pole with 38' mast arm, traffic signal heads, countdown pedestrian signal head, APS pushbutton with pedestrian education sign, signs and video detection camera. (Note: 1-4" 90° polyvinyl chloride (Schedule 80) bend.)

B. Install 27' steel pole with twin 50'/50' mast arms, 15' lighting arm with 250 watt HPS lamp, luminaire, signs traffic signal heads, countdown pedestrian signal head, APS pushbutton with pedestrian education sign, and video detection camera. (Note: 1-4" 90° polyvinyl chloride (Schedule 80) bend.)

C. Install 10' breakaway pedestal pole with countdown pedestrian signal heads and APS pushbutton with pedestrian education sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

D. Remove existing traffic signal heads and install proposed traffic signal heads.

E. Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown.

F. Install metered pedestal for electrical utility service equipment.

G. Install handhole.

H. Install proposed parallel handicap ramp (STD. No. MD 655.12) with detectable warning surface (STD. No. MD 655.40).

J. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

K. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).

L. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (slotted).

M. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

N. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

O. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (slotted) for proposed underground electrical power service by BGE to base of utility pole.

P. Install 12" white heat applied preformed theromplastic pavement marking. (Crosswalk)

Q. Install 24" white heat applied preformed theromplastic pavement marking. (Stopline)

R. Install non-invasive micro loop probe set with 1000' lead-in.

S. Contractor shall cut existing conduit and connect proposed conduit as shown.

T. Contractor shall remove existing strain poles, existing span wire attached to them along with signal heads, all pedestrian associated equipment, and foundation 12" below grade and backfill below grade. (Note: Contractor shall return all video detection cameras from strain poles back to SHA Signal Shop.)

U. Use existing conduit and/or handhole.

V. Install Proposed sign on 4"x4" wood post.

W. Remove existing "FINES DOUBLE" sign.

X. Remove existing "NO STOPPING ANYTIME" ground mounted sign and install proposed ground mounted sign on 4"x4" wood post as shown

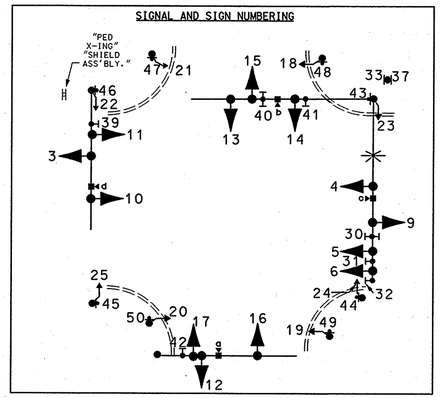
OVERHEAD HEIGHTS

TELEPHONE	17'-0"
TELEPHONE	18'-0"
CATV	22'-2"
SECONDARY	30'-5"
SECONDARY	31'-0"
SECONDARY	31'-2"
SECONDARY	32'-8"
PRIMARY	36'-0"

OVERHEAD HEIGHTS

TELEPHONE	19'-8"
TELEPHONE	20'-3"
CATV	23'-9"
SECONDARY	30'-5"
SECONDARY	31'-0"
SECONDARY	31'-2"
SECONDARY	31'-8"

SIGNAL AND SIGN NUMBERING



GENERAL NOTES:

1. All underground utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying "MISS UTILITY" 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 will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.
2. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All Crosswalks shall be centered on all proposed Handicap Ramps.
3. All Traffic Signal Foundations shall be installed at the Final Sidewalk or Curb grade for closed sections. Highest Roadway Profile Grade for open sections, to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, and MD 818.04 The contractor shall verify ultimate grades prior to the installation of all signal equipment.
4. If the location of Accessible Pedestrian Signal pushbuttons must be changed the contractor shall notify the project Engineer to get approval for new location to ensure proper requirements of the MUTCD are still met. All work must be halted until the Project Engineer has obtained an approved location or if necessary design waiver is obtained.
5. Pushbuttons are to be located so that they can be activated by a person in a wheelchair from a 60" x 60" level landing area. A level landing area is an area with a cross slope of less than or equal to 2%.
6. The contractor shall remove all unused wiring.

TOD NO: AT912-08
SHA No.: BA633A55/C55
MD 144 @ MD 166/Ent. To Hillcrest Elem. School

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 144 (FREDERICK RD) & MD 166 (ROLLING RD) / ENTRANCE TO HILLCREST ELEM. SCHOOL

CATONSVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20'	DATE 9-19-91
CONTRACT NO.	
DESIGNED BY	
DRAWN BY MELODY COOK	
CHECKED BY	
F.A.P. NO.	
COUNTY BALTIMORE	
LOGMILE 03014402.72	
TIMS NO. I414	
TOD NO.	
TS NO. 3191H	DRAWING NO. 1 OF 2
SHEET NO. OF	

GEOMETRIC LEGEND
PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A	A
ELECTRIC	E	E
TELEPHONE	T	T
GAS	G	G
SEWER	S	S
WATER	W	W
CABLE TV	TV	TV

REVISION "H"

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.,NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-5537

5190.dgn T-56

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR
ORIGINAL ON FILE

REVISIONS

H	RECONSTRUCT TRAFFIC SIGNAL WITH APS & CPS SHA #: AT9125195				3/23/07
	JWA				
G	SPLIT SIDE ROADS. ADD RIGHT TURN E/P EB OPERATES W/ 04 SHA. FORCES SIGNALS				2/16/05
	EMM				TH
F	INSTALL NEW STRAIN POLE IN N/W QUADRANT DUE TO GEO. IMPR. REDUE LOOPS. SHA. BA3715376				3/00
	DJD		DAZ	ETP	TH

PLOTTED: $DATETIME$
FILE: $FILE$

DRILL HOLES

DRILL HOLES

...5600\TS\191\5190.dgn Mar 23, 2007 12:06:37