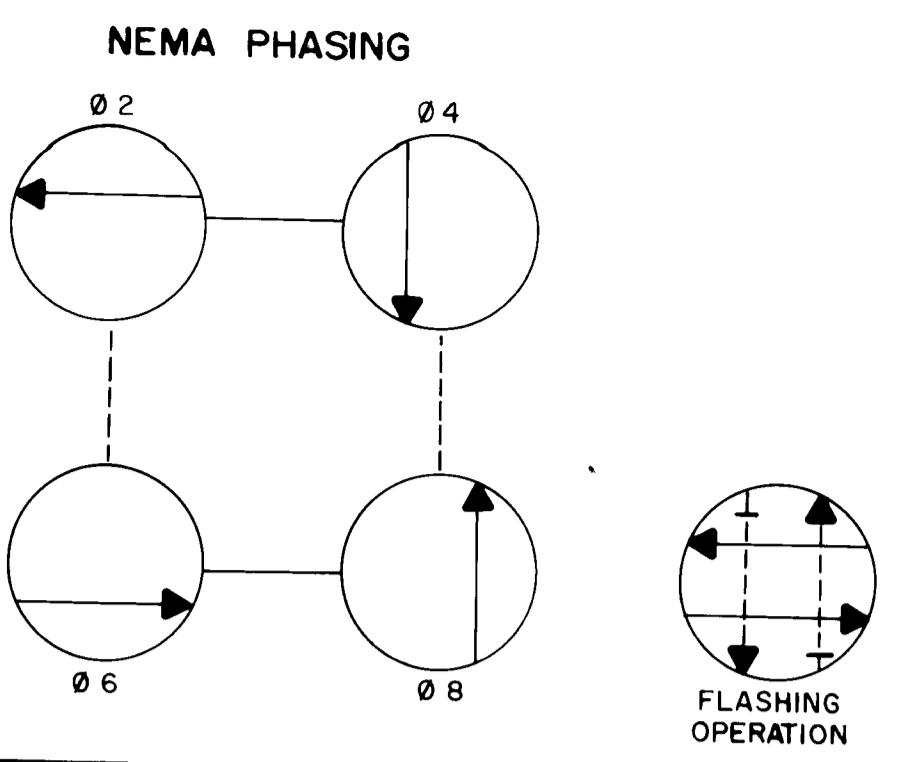
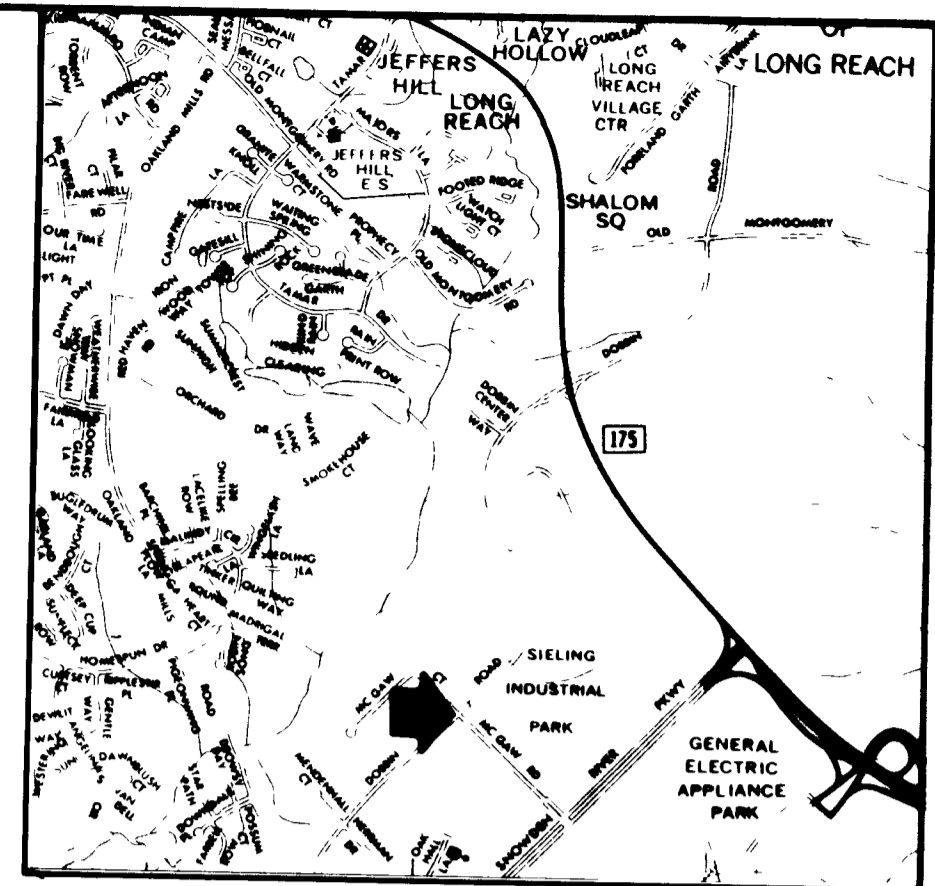


SCALE 1" = 30'

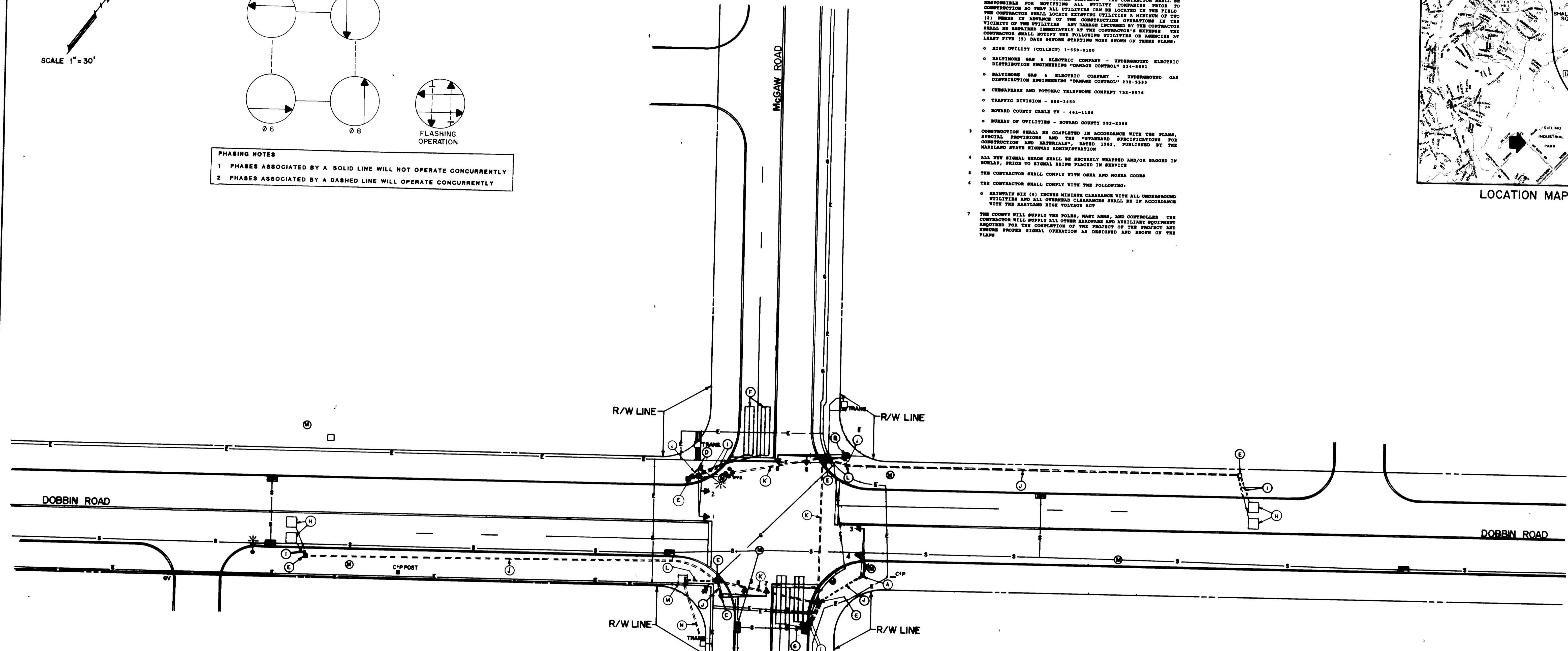


PHASING NOTES
 1 PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
 2 PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

- GENERAL NOTES**
- THE PROPOSED HIGHWAY MARKING SHALL BE THE RESPONSIBILITY OF THE COUNTY.
 - THE UTILITIES SHOWN ON THE CONSTRUCTION PLAN ARE SCHEMATIC ONLY AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES CAN BE LOCATED IN THE FIELD. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) FEET IN ADVANCE OF THE CONSTRUCTION OPERATIONS IN THE VICINITY OF THE UTILITIES. ANY DAMAGE INCURRED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OF AGREES BY LAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - MISS UTILITY (COLLECT) 1-359-0100
 - BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING "DAMAGE CONTROL" 234-2521
 - BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION ENGINEERING "DAMAGE CONTROL" 232-5533
 - CHEESAPEAKE AND POTOMAC TELEPHONE COMPANY 752-9976
 - TRAFFIC DIVISION - 880-3450
 - HOWARD COUNTY CABLE TV - 461-1154
 - BUREAU OF UTILITIES - HOWARD COUNTY 972-1244
 - CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", DATED 1982, PUBLISHED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION.
 - ALL NEW SIGNAL HEADS SHALL BE SECURELY WRAPPED AND/OR BRAGED IN OVERLAP, PRIOR TO SIGNAL BEING PLACED IN SERVICE.
 - THE CONTRACTOR SHALL COMPLY WITH OSHA AND MSHA CODES.
 - THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING:
 - MAINTAIN SIX (6) INCHES MINIMUM CLEARANCE WITH ALL UNDERGROUND UTILITIES AND ALL OVERHEAD CLEARANCES SHALL BE IN ACCORDANCE WITH THE MARYLAND HIGH VOLTAGE ACT.
 - THE COUNTY WILL SUPPLY THE POLES, MAST ARMS, AND CONTROLLER. THE CONTRACTOR WILL SUPPLY ALL OTHER HARDWARE AND AUXILIARY EQUIPMENT REQUIRED FOR THE COMPLETION OF THE PROJECT AND ENSURE PROPER SIGNAL OPERATION AS DESIGNED AND SHOWN ON THE PLANS.



LOCATION MAP



PHASE AND SEQUENCE DIAGRAM	SIGNAL HEADS		MIN GREEN	PASSAGE	YELLOW	RED CLEAR.	MAX I	SECONDS PER ACTUATION	TIME TO REDUCE	TIME BEFORE REDUCTION	MINIMUM GAP	RECALL	MEMORY
	1-4	5-8											
PHASE 2+6	G	R	10	5			50	25	5	10	35	OFF	ON
PHASE 2+6 CLEAR	Y	R			4	I							
PHASE 4+8	R	G	5	I			35					OFF	OFF
PHASE 4+8 CLEAR	R	Y			4	I							
FLASH	FL/Y	FL/R											

LEGEND

EXISTING

- Traffic Signal Head
- Sign
- Base Mounted Controller
- Steel Pole
- Wood Pole
- Street Light
- Handbox
- Loop Detector
- Conduit Elbow
- Conduit
- Fire Hydrant
- Water Valve
- Man Hole

PROPOSED

- Traffic Signal Head
- Sign
- Base Mounted Controller
- Steel Pole
- Wood Pole
- Street Light
- Handbox
- Loop Detector
- Conduit Elbow
- Conduit
- Fire Hydrant
- Water Valve
- Man Hole

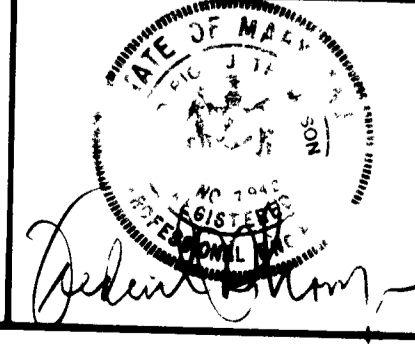
UNDERGROUND UTILITIES

- Electric
- Telephone
- Gas
- Sewer
- Water
- Cable TV

- CONSTRUCTION DETAILS**
- Install 27.5' steel pole with a 30' mast arm, signal heads, and 15' lighting arm with a 250 watt high pressure sodium vapor luminaire as shown. (NOTE: Install 1-2", 90° elbow.)
 - Install 21' steel pole with a 40' mast arm and signal heads as shown. (NOTE: Install 1-2", 90° elbow.)
 - Install 21' steel pole with a 30' mast arm and signal heads as shown. (NOTE: Install 1-2", 90° elbow.)
 - Install 27.5' steel pole with a 32' mast arm, signal heads and 15' lighting arm with a 250 watt high pressure sodium vapor luminaire as shown (NOTE: Install 1-2" 90° elbow)
 - Install handbox
 - Install 6' x 30' loop detector encased in 1/4" flexible tubing (2-4-2) quadrupole type
 - Install 6' x 20' loop detector encased in 1/4" flexible tubing (2-4-2) quadrupole type.
 - Install 6' x 6' loop detector encased in 1/4" flexible tubing (3-turns)
 - Install 1" galvanized steel electrical conduit (detector wire sleeve).
 - Install 2" polyvinyl chloride electrical conduit (trenched).
 - Install 2" galvanized steel electrical conduit (pushed).
 - Install 4" polyvinyl chloride electrical conduit (trenched).
 - Install base mounted cabinet and controller with all necessary equipment (NOTE: Install 1-2" and 1-4" 90° elbow)
 - Proposed underground feed.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *William W. Woodard* 8/15/89
 Chief, Bureau of Engineering: *William W. Woodard* 8-16-89
 Chief, Traffic Engineering Division: *Edward R. Galt* 8/15/89

A/E GROUP, INC
 9545 REISTERSTOWN ROAD
 P.O. BOX 117
 GARRISON, MARYLAND 21055
 (301) 363-1908



DES W K LINK	AS BUILT	5-7-91
DRN W K LINK		
CHK-T ZAYDEL		
DATE: 11/30/89	BY: NO	REVISION

TRAFFIC SIGNAL PLAN
 DOBBIN ROAD & MCGAW ROAD

T-7048
 SCALE AS SHOWN
 SHEET 1 OF 2

AS-BUILT 5-7-91 DOBBMCGA