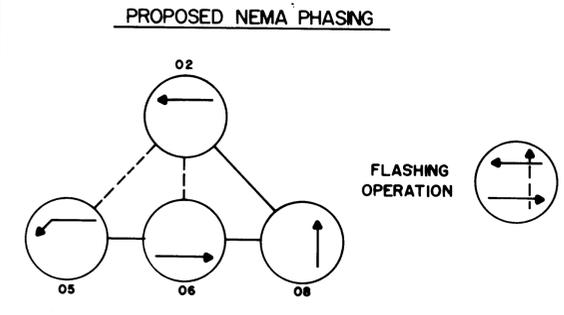
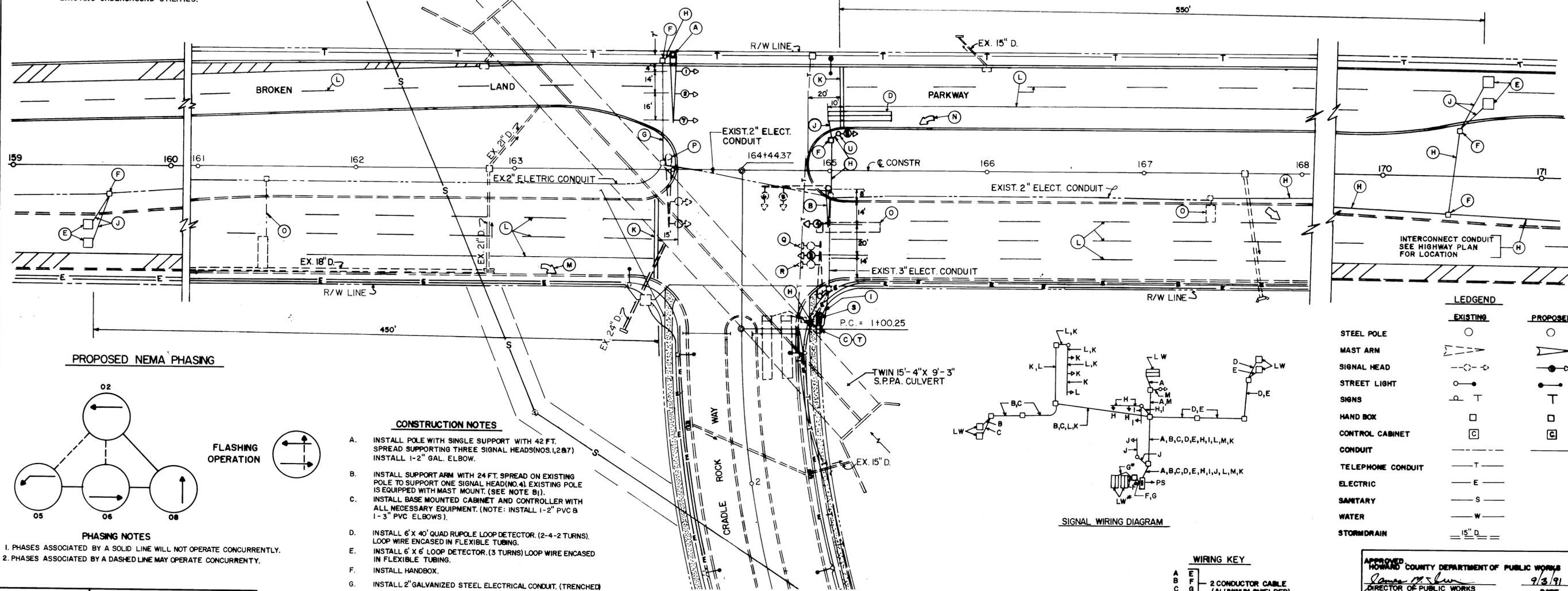


NOTE B: CONTRACTOR SHALL MEASURE THE EXISTING MAST MOUNT FLANGE AND BOLT SPACING TO DETERMINE ITS FIT TO THE FLANGE PROVIDED ON THE MAST ARM SHOP DRAWING SHOWING ANY REQUIRED MODIFICATION TO THE MOUNTS MUST BE SUBMITTED TO THE ENGINEER FOR HIS APPROVAL.

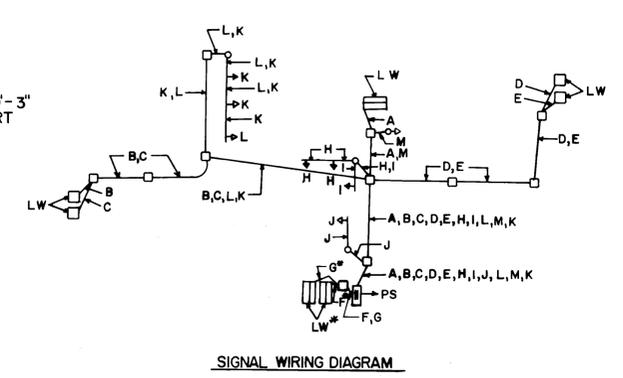
NOTE U: PEDESTAL POLES TO BE INSTALLED OPPOSITE THE STOP LINE WITH MINIMUM 2'-0" CLEARANCE TO FACE OF CURB. LOCATIONS MAY VARY AS DIRECTED BY THE ENGINEER IN ORDER TO CLEAR EXISTING UNDERGROUND UTILITIES.



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

- CONSTRUCTION NOTES**
- INSTALL POLE WITH SINGLE SUPPORT WITH 42 FT. SPREAD SUPPORTING THREE SIGNAL HEADS (NOS. 1, 2 & 7) INSTALL 1-2" GAL. ELBOW.
 - INSTALL SUPPORT ARM WITH 24 FT. SPREAD ON EXISTING POLE TO SUPPORT ONE SIGNAL HEAD (NO. 4) EXISTING POLE IS EQUIPPED WITH MAST MOUNT. (SEE NOTE B).
 - INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT. (NOTE: INSTALL 1-2" PVC & 1-3" PVC ELBOWS).
 - INSTALL 6' X 40' QUAD RUPOLE LOOP DETECTOR. (2-4-2 TURNS). LOOP WIRE ENCASED IN FLEXIBLE TUBING.
 - INSTALL 6' X 6' LOOP DETECTOR. (3 TURNS) LOOP WIRE ENCASED IN FLEXIBLE TUBING.
 - INSTALL HANDBOX.
 - INSTALL 2" GALVANIZED STEEL ELECTRICAL CONDUIT. (TRENCHED)
 - INSTALL 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT. (TRENCHED)
 - INSTALL 3" POLYVINYL CHLORIDE ELECTRICAL CONDUIT. (TRENCHED)
 - INSTALL 1" GALVANIZED STEEL CONDUIT SLEEVE FOR DETECTOR LEAD IN.
 - 24" WHITE STOP LINE MARKING BY OTHERS.
 - 4" WHITE LANE LINE MARKING BY OTHERS.
 - RIGHT TURN ARROW BY OTHERS.
 - LEFT TURN ARROW BY OTHERS.
 - DISCONNECT EXISTING LOOP DETECTOR.
 - REMOVE AND SALVAGE POLE, MAST, AND SIGNAL HEADS.
 - MOVE EXISTING SIGNAL HEAD TO POSITION (C).
 - REMOVE AND SALVAGE EXISTING SIGNAL HEAD.
 - REMOVE AND SALVAGE EXISTING BASE MOUNTED CABINET AND CONTROLLER. REMOVE EXISTING CONCRETE BASE.
 - ELECTRIC FEED AND METER BY B&E.
 - INSTALL 10 FT. PEDESTAL POLE WITH BREAKWAY BASE TO SUPPORT ONE SIGNAL HEAD (NO. 8) INSTALL 1-2" 90° PVC ELBOW. (SEE NOTE U).

- GENERAL NOTES**
- THE PROPOSED HIGHWAY MARKING AND SIGNING SHALL BE INSTALLED BY HOWARD 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 MINIMUM OF TWO WEEKS IN ADVANCE OF THE CONSTRUCTION OPERATION 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 OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 MISS UTILITY-1-800-257-7777
 BALTIMORE GAS & ELECTRIC CO.-UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING "DAMAGE CONTROL"-234-5891
 CHESAPEAKE AND POTOMAC TELEPHONE CO. -752-9976
 TRAFFIC DIVISION-992-2430
 HOWARD COUNTY CABLE TV-464-1156
 BUREAU OF UTILITIES, HOWARD COUNTY 992-2366
 - CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATION AND DETAIL FOR CONSTRUCTION DESIGN MANUAL VOLUME III.
 - ALL NEW SIGNAL HEADS SHALL BE SECURELY WRAPPED AND/OR BAGGED IN BURLAP, PRIOR TO SIGNAL BEING PLACED IN SERVICE.
 - THE CONTRACTOR SHALL COMPLY WITH OSHA AND MSHA CODES.
 - THE CONTRACTORS SHALL COMPLY WITH THE FOLLOWING:
 MAINTAIN SIX INCHES MINIMUM CLEARANCE WITH ALL UNDERGROUND UTILITIES AND ALL OVERHEAD CLEARANCES SHALL BE IN ACCORDANCE WITH THE MARYLAND HIGH VOLTAGE ACT.
 - THE CONTRACTOR WILL SUPPLY ALL THE OTHER HARDWARE AND AUXILIARY EQUIPMENT REQUIRED FOR THE COMPLETION OF THE PROJECT AND ENSURE PROPER SIGNAL OPERATION AS DESIGNED AND SHOWN ON THE PLANS.



LEDGEND

	EXISTING	PROPOSED
STEEL POLE	○	○
MAST ARM	—	—
SIGNAL HEAD	○	○
STREET LIGHT	○	○
SIGNS	—	—
HANDBOX	□	□
CONTROL CABINET	□	□
CONDUIT	—	—
TELEPHONE CONDUIT	—	—
ELECTRIC	—	—
SANITARY	—	—
WATER	—	—
STORMDRAIN	—	—

WIRING KEY

A, B, C, D, E, F, G — 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)

H, I, J, K, L, M — 5 CONDUCTOR CABLE (NO. 14 AWG)

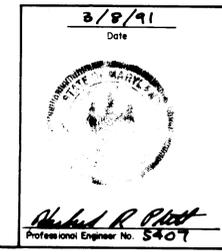
LW — LOOP WIRE (NO. 14 AWG)
 PS — PROPOSED UNDERGROUND SERVICE
 * — EXISTING CABLE

APPROVED
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Lewis
 DIRECTOR OF PUBLIC WORKS 9/3/91
 DATE

William E. Potts
 CHIEF, BUREAU OF ENGINEERING 9/3/91
 DATE

C. E. Daniel
 CHIEF, TRAFFIC ENGINEERING DIV. 9/3/91
 DATE

BY	NO.	REVISION	DATE



PHOENIX ENGINEERING, INC.
 CONSULTING ENGINEERS
 BALTIMORE, MARYLAND 21228

AREA: **BROKEN LAND PARKWAY**

TITLE: **TRAFFIC SIGNAL PLAN**
 BROKEN LAND PARKWAY AND CRADLE ROCK WAY (NORTH)

Des By H.R.P.	Scale 1" = 30'	Proj. No. 89-0040
Des By J.W.B.	Date JAN 1991	Drawing No. 1 OF 1
Chk By S.P.	Approved	

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