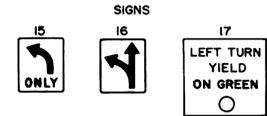


PHASING NOTES

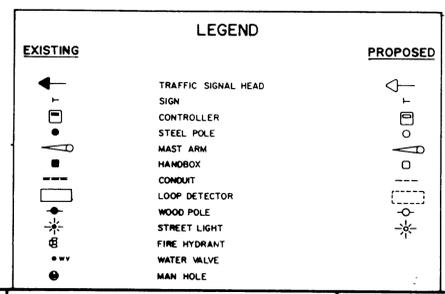
- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

- 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 WEEKS IN ADVANCE OF THE COMMENCEMENT OF 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 OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
 - M&E UTILITY (COLLECT) 1-888-8186
 - BALTIMORE GAS & ELECTRIC COMPANY UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING DAMAGE CONTROL 28-381
 - BALTIMORE GAS & ELECTRIC COMPANY UNDERGROUND GAS DISTRIBUTION ENGINEERING DAMAGE CONTROL 28-383
 - CHESAPEAKE AND POTOMAC TELEPHONE COMPANY 781-8976
 - TRAFFIC DIVISION 880-3485
 - HOWARD COUNTY CABLE TV 481-1188
 - BUREAU OF UTILITIES HOWARD COUNTY 882-8888
 - CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION DESIGN MANUAL VOLUME IV.
 - 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 CONTRACTOR SHALL COMPLY WITH THE FOLLOWING:
 - MAINTAIN THE 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 INSURE PROPER SIGNAL OPERATION AS OBSERVED AND SHOWN ON THE PLANS.



- CONSTRUCTION DETAILS**
- INSTALL 27' STEEL POLE WITH 36' MAST ARM, 12' LIGHTING ARM AND LUMINAIRE, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND SIGN AS SHOWN (NOTE: INSTALL 1-2", 90° ELBOW)
 - INSTALL 27' STEEL POLE WITH 36' MAST ARM, 12' LIGHTING ARM AND LUMINAIRE, SIGNAL HEADS, SIGN AND PEDESTRIAN SIGNAL HEAD AS SHOWN (NOTE: INSTALL 1-2", 90° ELBOW)
 - INSTALL 21' STEEL POLE WITH 46' MAST ARM, SIGNAL HEADS, SIGN, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND SIGN AS SHOWN (NOTE: INSTALL 1-2", 90° ELBOW)
 - INSTALL 21' STEEL POLE WITH 50' MAST ARM, SIGNAL HEADS, AND PEDESTRIAN SIGNAL HEAD AS SHOWN (NOTE: INSTALL 1-2", 90° ELBOW)
 - INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: INSTALL 2-2" AND 1-4", 90° ELBOW)
 - INSTALL 6" x 3/8" 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 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED)
 - INSTALL 2" GALVANIZED STEEL ELECTRICAL CONDUIT (PUSHED)
 - INSTALL 4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED)
 - INSTALL 4" GALVANIZED STEEL ELECTRICAL CONDUIT (PUSHED)
 - PROPOSED UNDERGROUND FEED
 - INSTALL HANDBOX

REMOVE END OF EXISTING ISLAND CONSTRUCT NEW CURB WHERE SHOWN AND FILL IN REMOVED ISLAND AREA WITH NEW ROADWAY PAVING MEETING EXISTING PAVING BOTH SIDES REPLACEMENT CURB AND PAVING SHALL MATCH EXISTING ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY "DESIGN MANUAL, VOLUME III - ROAD AND BRIDGES" LATEST EDITION



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	2	3,4	5	6	7	8	9-12	13-14																		
PHASE 2+5	G	G	R	R	R	R									5	1		10			OFF	OFF					
PHASE 2+5 CLEAR	Y	G	R	R	R	R											4	0									
PHASE 2+6	G	G	G	R	R	R									31	5		53	2.5	5	10	35	OFF	ON	7		
PED CLEAR	G	G	G	R	R	R																			24		
PHASE 2+6 CLEAR	Y	Y	Y	R	R	R											4	1									
PHASE 4+8	R	R	R	G	G	R									5	1		27							OFF	OFF	
PHASE 4+8 CLEAR	R	R	R	Y	Y	R											4	1									
PHASE 4+8 Alt	R	R	R	G	G	R									27	1		27							OFF	OFF	7
PED CLEAR	R	R	R	G	G	R																				20	
PHASE 4+8 Alt CLEAR	R	R	R	Y	Y	R											4	1									
PHASE 4 FLASH	R	R	R	R	R	G									5	1		10							OFF	OFF	
PHASE 4 CLEAR	R	R	R	R	Y	Y											4	1									

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: James R. ... DATE: 8/23/89 Chief, Bureau of Engineering: ... DATE: 8-21-89 Chief, Traffic Engineering Division: ... DATE: 8/14/89		A/E GROUP, INC 9515 REISTERSTOWN ROAD P.O. BOX 117 GARRISON, MARYLAND 21055 (301) 363-1908	DES T ZAYDEL DRN T ZAYDEL CHK DATE: 5/19/89 BY: RD	AS-BUILT 3-7-91 REVISION DATE: 6/30/89 SCALE MAP NO: BLOCK NO:	TRAFFIC SIGNAL PLAN COLUMBIA ROAD & DORSEY HALL DRIVE	SCALE AS SHOWN T-7047 SHEET 1 OF 2
---	--	---	---	--	---	---