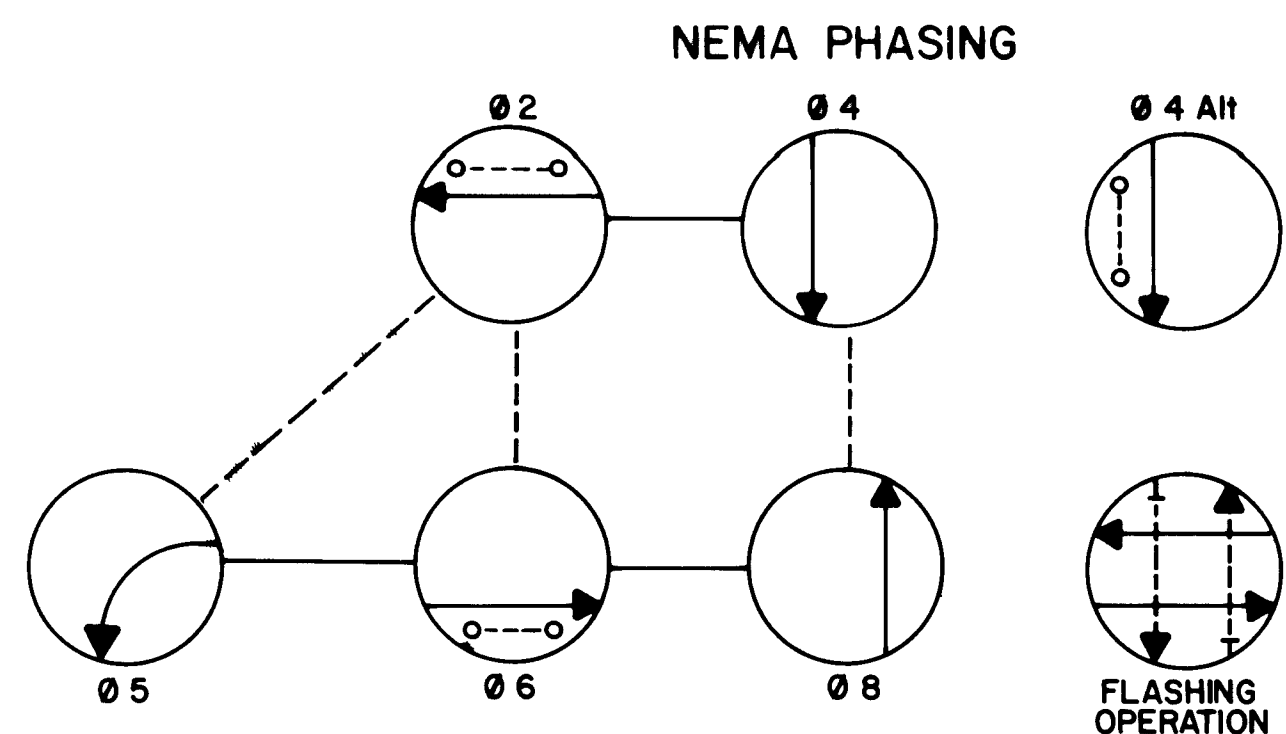
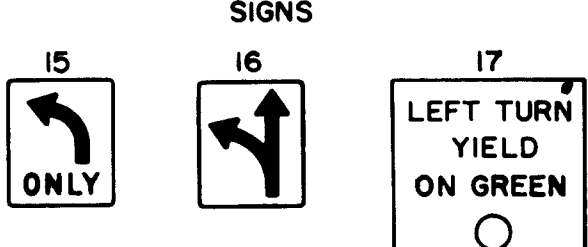
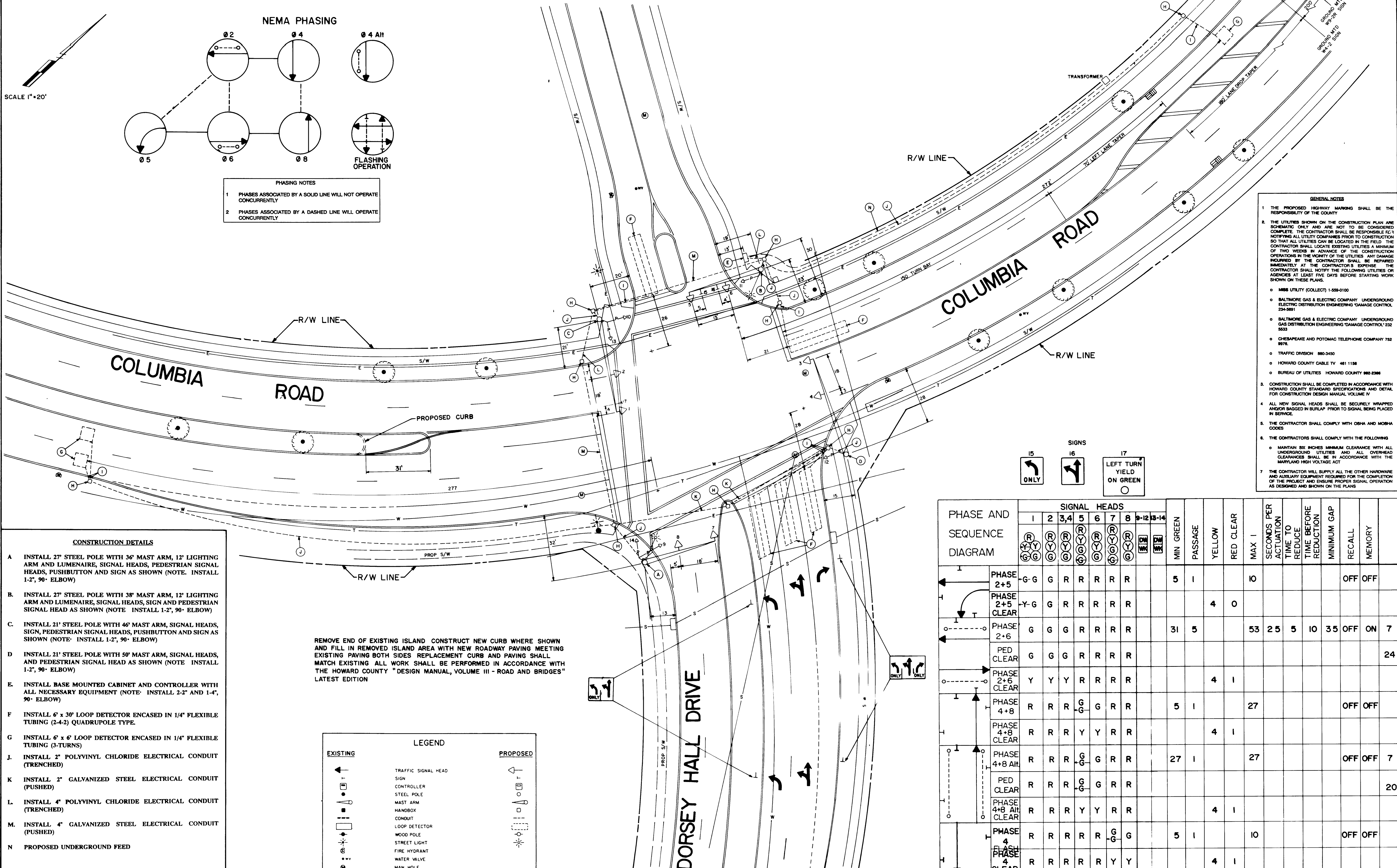


SCALE 1"=20'



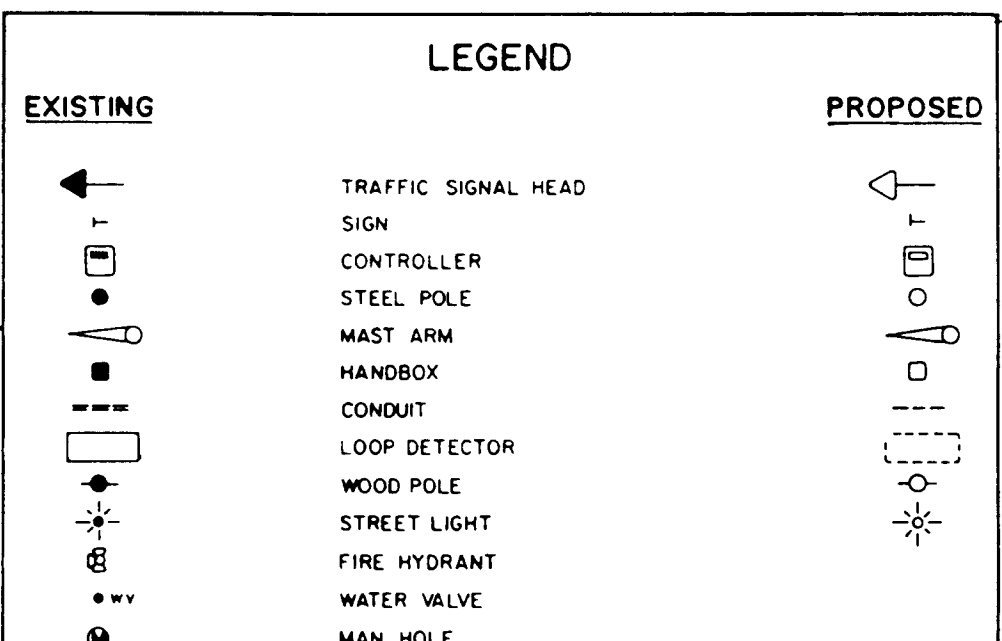
**PHASING NOTES**  
 1 PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY  
 2 PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

**GENERAL NOTES**  
 1 THE PROPOSED HIGHWAY MARKING SHALL BE THE RESPONSIBILITY OF THE COUNTY  
 2 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 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 OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.  
 • MBS UTILITY (COLLECT) 1-559-0100  
 • BALTIMORE GAS & ELECTRIC COMPANY UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING DAMAGE CONTROL 234-5891  
 • BALTIMORE GAS & ELECTRIC COMPANY UNDERGROUND GAS DISTRIBUTION ENGINEERING DAMAGE CONTROL 232-5533  
 • CHESAPEAKE AND POTOMAC TELEPHONE COMPANY 752-9976  
 • TRAFFIC DIVISION 860-3450  
 • HOWARD COUNTY CABLE TV 461-1158  
 • BUREAU OF UTILITIES HOWARD COUNTY 862-2366  
 3 CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION DESIGN MANUAL VOLUME IV  
 4 ALL NEW SIGNAL HEADS SHALL BE SECURELY WRAPPED AND/OR BAGGED IN BURLAP PRIOR TO SIGNAL BEING PLACED IN SERVICE.  
 5 THE CONTRACTOR SHALL COMPLY WITH OSHA AND MSHA CODES  
 6 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  
 7 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



**CONSTRUCTION DETAILS**  
 A 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)  
 B INSTALL 27' STEEL POLE WITH 38" MAST ARM, 12' LIGHTING ARM AND LUMINAIRE, SIGNAL HEADS, SIGN AND PEDESTRIAN SIGNAL HEAD AS SHOWN (NOTE: INSTALL 1-2", 90° ELBOW)  
 C 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)  
 D INSTALL 21' STEEL POLE WITH 50" MAST ARM, SIGNAL HEADS, AND PEDESTRIAN SIGNAL HEAD AS SHOWN (NOTE: INSTALL 1-2", 90° ELBOW)  
 E INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: INSTALL 2-2" AND 1-4", 90° ELBOW)  
 F INSTALL 6" x 30" LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (2-4-2) QUADRUPOLE TYPE.  
 G INSTALL 6" x 6" LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (3-TURNS)  
 J INSTALL 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED)  
 K INSTALL 2" GALVANIZED STEEL ELECTRICAL CONDUIT (PUSHED)  
 L INSTALL 4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED)  
 M INSTALL 4" GALVANIZED STEEL ELECTRICAL CONDUIT (PUSHED)  
 N PROPOSED UNDERGROUND FEED

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	R								5	1			10		OFF	OFF							
PHASE 2+5 CLEAR	Y	G															4	0											
PHASE 2+6	G	G	G	R	R	R	R								31	5			53	25	5	10	35	OFF	ON	7			
PED CLEAR	G	G	G	R	R	R	R																				24		
PHASE 2+6 CLEAR	Y	Y	Y	R	R	R	R										4	1											
PHASE 4+8	R	R	R	G	G	R	R								5	1			27								OFF	OFF	
PHASE 4+8 CLEAR	R	R	R	Y	Y	R	R										4	1											
PHASE 4+8 AH	R	R	R	G	G	R	R								27	1			27								OFF	OFF	7
PED CLEAR	R	R	R	G	G	R	R																					20	
PHASE 4+8 AH CLEAR	R	R	R	Y	Y	R	R										4	1											
PHASE 4 FLASH	R	R	R	R	R	G	G								5	1			10									OFF	OFF
PHASE 4 CLEAR	R	R	R	R	R	Y	Y										4	1											

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

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

TRAFFIC SIGNAL PLAN  
 COLUMBIA ROAD & DORSEY HALL DRIVE

SCALE AS SHOWN  
 T-7047  
 SHEET 1 OF 2