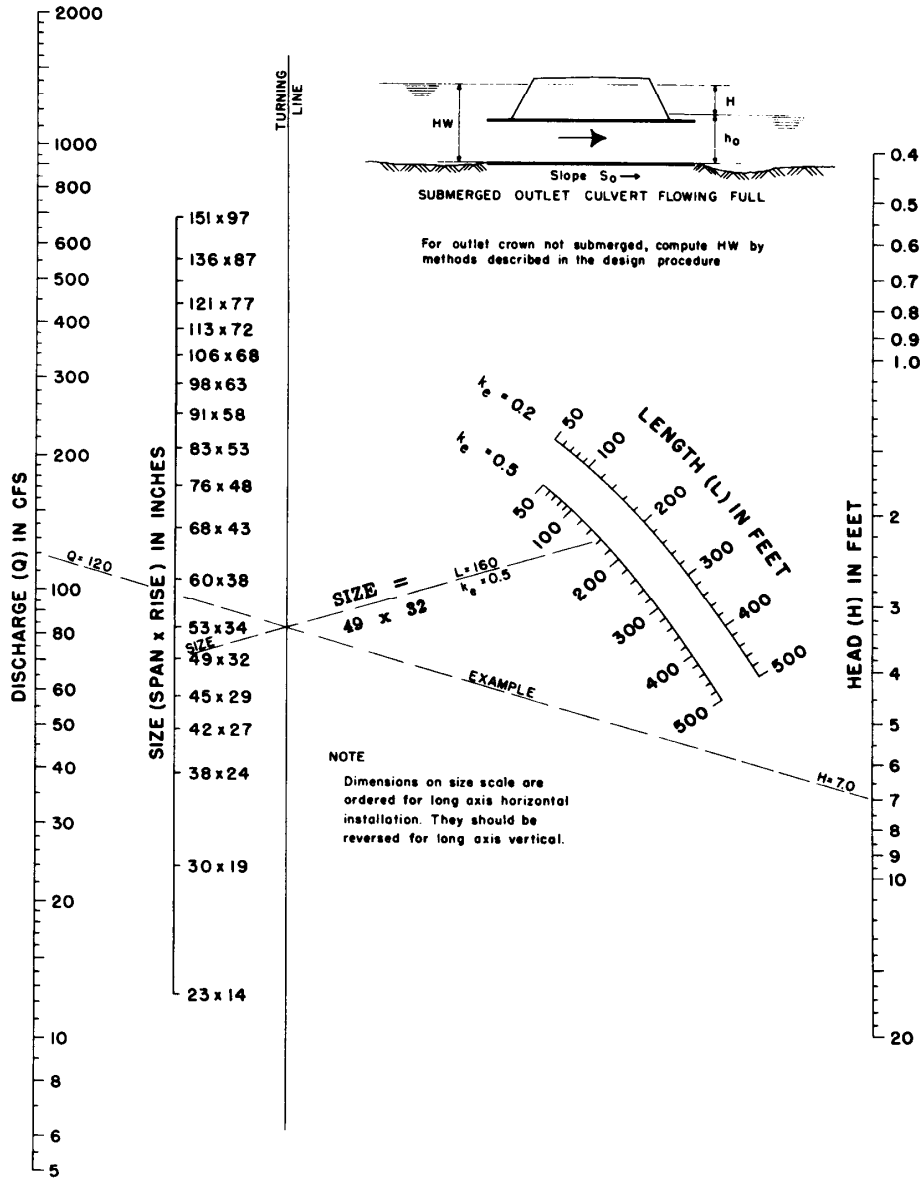


CHART 33



HEAD FOR  
OVAL CONCRETE PIPE CULVERTS  
LONG AXIS HORIZONTAL OR VERTICAL  
FLOWING FULL  
 $n = 0.012$

BUREAU OF PUBLIC ROADS JAN. 1963

Source: HDS-5