

CAPACITY OF BASIN =

$$Q = K D^{5/3}$$

WHERE:

Q = C.F.S.

D = DEPTH OF GUTTER FLOW
IN FEET

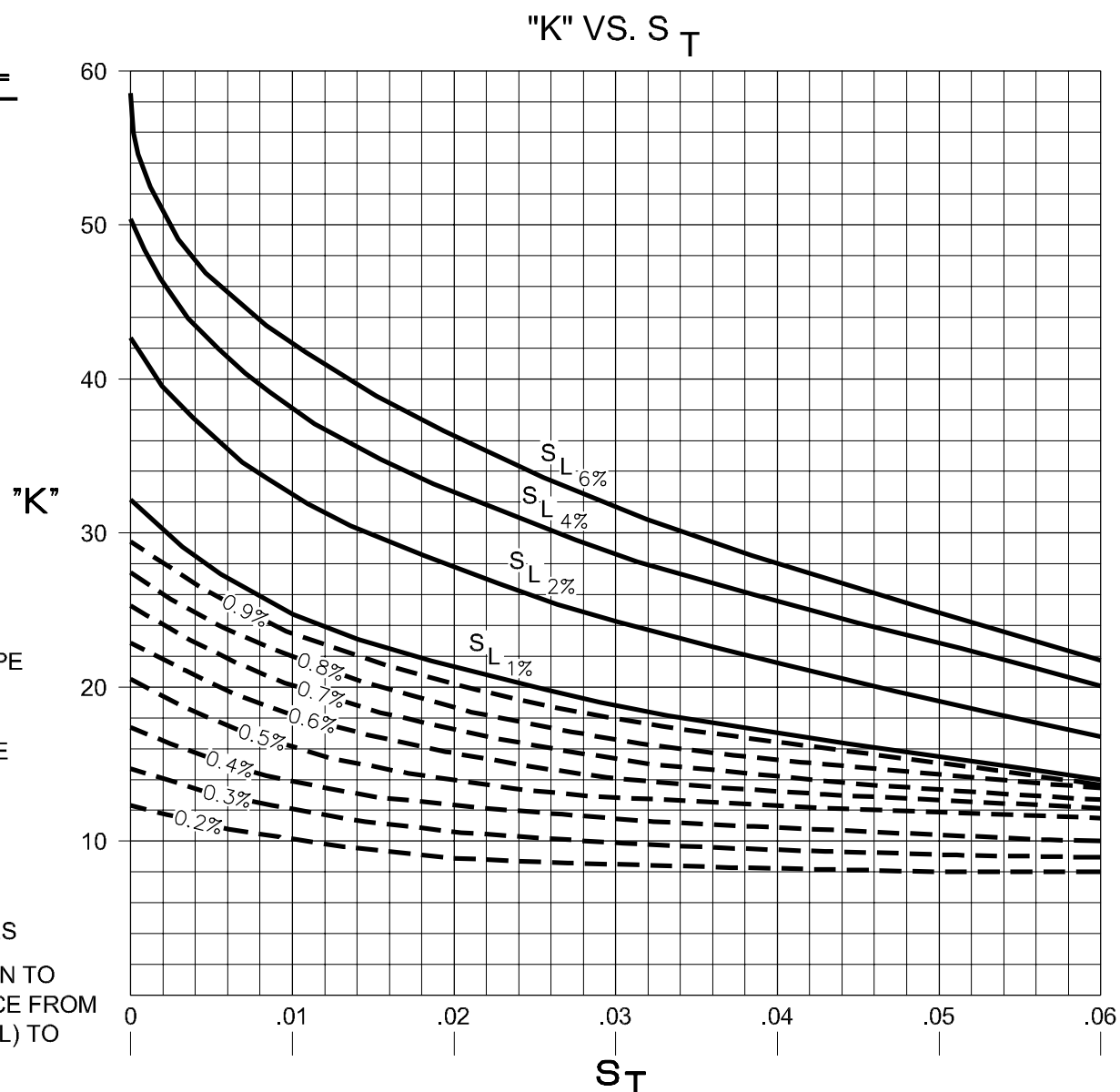
S_L = LONGITUDINAL GUTTER SLOPE

S_T = TRANSVERSE GUTTER SLOPE

K = GRATE INLET COEFFICIENT

--- INDICATES INTERPOLATED VALUES

S_T = VERTICAL DISTANCE FROM CROWN TO
GUTTER LINE DIVIDED BY DISTANCE FROM
CREST OF ROADWAY (USUALLY C/L) TO
GUTTER LINE.



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CITY OF GREENVILLE, N.C.

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1	9/16/11	APPROVAL
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STANDARD CATCH BASIN INLET CAPACITY