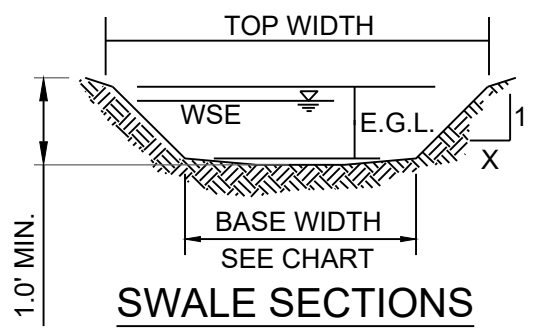




RUNOFF CALCULATIONS:
 $Q = K \cdot C \cdot I \cdot A$
 $K_{100} = 1.25 K_{10} = 1.0 C = 0.51$
 $I_{10} = 7.35 I_{100} = 10.32$
VELOCITY HEAD = $(\text{VELOCITY})^2 / 64.4$
EGL = DEPTH + VELOCITY HEAD

LOCATION	SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW FORMULA	DESIGN OVERFLOW (CFS)	BED SLOPE (%)	SIDE SLOPE (X:1)	BASE WIDTH (FT)	CROSS SECTION AREA (FT ²)	TOP WIDTH (FT)	NOMINAL DEPTH (FT.)	AVERAGE VELOCITY (FPS)	VELOCITY HEAD (FT.)	EGL (FT.)
LOT 33	B	0.40	3.41	1.94	$Q_{100(B)}$	3.41	2.00	5.00	6.00	2.16	8.90	0.21	2.27	0.08	0.29

NOTES:

- MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE A MINIMUM OF 2 FEET ABOVE THE WATER SURFACE ELEVATION FOR THE 1% CHANCE STORM EVENT. APPROVED INDIVIDUAL LOT PLOT PLANS MAY ALTER THE CONSTRUCTED SWALES IN ELEVATION (CONTOUR) FROM THE GRADING PLAN AS LONG AS THE MBOE IS ADJUSTED ACCORDING TO THE ABOVE CRITERIA.
- EGL = ENERGY GRADE LINE (100 YR)
- MWSE = MAXIMUM WATER SURFACE ELEVATION (100 YR)
- MBOE'S ADJACENT TO SUMPED AREA INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM.

