



EMERGENCY SPILLWAY ( $Q=C^*L^*H^n$ )				
C-Weir Coefficient	L (ft)	H (ft)	n	Q (cfs)
2.6	60	0.85	1.5	122

25-yr Calculations		
Outlet Q (Allowable)	<b>23.27</b>	cfs
g	32.20	ft/s^2
Cd	0.62	
Water Elev.	<b>526.36</b>	ft
Outlet FL	<b>522.05</b>	ft
Pipe Size	<b>19.5000</b>	in
	1.63	ft
ho	3.50	ft
Ao	2.07	ft^2
Diameter	<b>1.63</b>	ft
	<b>19.50</b>	in
Pipe Size	1.63	ft
Ao	2.07	ft^2
Q (Actual)	<b>19.29</b>	cfs

10-yr Overflow Calculations		
Outlet Q (Allowable)	2.55	cfs
Water Elev.	526.13	ft
Outlet FL	525.99	ft
H	1.6800	in
H	0.14	ft
b	3.00	ft
Q (Actual)	0.52	cfs

100-yr Calculations		
Outlet Q (Allowable)	<b>30.04</b>	cfs
g	32.20	ft/s^2
Cd	0.62	
Water Elev.	<b>526.93</b>	ft
Outlet FL	<b>522.05</b>	ft
Pipe Size	<b>19.5000</b>	in
	1.63	ft
ho	4.07	ft
Ao	2.07	ft^2
Diameter	<b>1.63</b>	ft
	<b>19.50</b>	in
Pipe Size	1.63	ft
Ao	2.07	ft^2
Q (Actual)	<b>20.80</b>	cfs

$$\begin{aligned} Q_{10}(\text{Actual}) &= Q_{10}(\text{Orifice}) + Q_{10}(\text{Overflow}) = \\ &18.64 \text{ CFS} + 0.52 \text{ CFS} = 19.17 \text{ CFS} \\ &< 21.19 \text{ CFS} = Q_{10}(\text{Allowable}) \end{aligned}$$

**CAUTION NOTICE TO CONTRACTORS**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL, AT LEAST TWO HOURS BEFORE AN EXCAVATION, REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATED ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.