

FOR DESIGN OF RECTANGULAR WEIR:

USE $Q=CLH^{3/2}$

WHERE Q= RELEASE RATE

C= 3.0 FOR BROAD-CRESTED RECTANGULAR WEIRS

L= WEIR OPENING

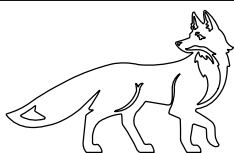
T= WALL THICKNESS (6" MIN)

H= HEAD (6" MIN)

USE COMPARABLE RELATIONSHIPS FOR DESIGN OF OVERFLOW STRUCTURES.

NOTES:

1. STRUCTURE TO BE CONSTRUCTED OF REINFORCED CONCRETE, IDOT CLASS SI (6.1 BAG MIX) MIN 3500 PSI AT 14 DAYS, WITH 5% TO 7% AIR ENTRAINMENT. (NO FLY ASH ALLOWED)
2. SMOOTH FINISH -1" CHAMFER ON ALL EXPOSED EDGES
3. PROVIDE MIN #4 REBARS IN FOOTING AND WEIR, 12" O.C., EACH WAY
4. BACKFILL MATERIAL TO BE INORGANIC COHESIVE SOIL, COMPACTED IN MAXIMUM 12" (LOOSE) LIFTS TO AT LEAST 90% MODIFIED PROCTOR DENSITY (ASTM D-1557)
5. EROSION CONTROL MATERIAL TO BE PROVIDED IN FRONT AND REAR OF WEIR OPENING.



CITY OF ST. CHARLES
 ILLINOIS • SINCE 1834
Pride of the Fox

OVERFLOW (WEIR) STRUCTURE

DATE: 5-12-2021

NOT TO SCALE

REVISED:

DRAWING NO. C-10