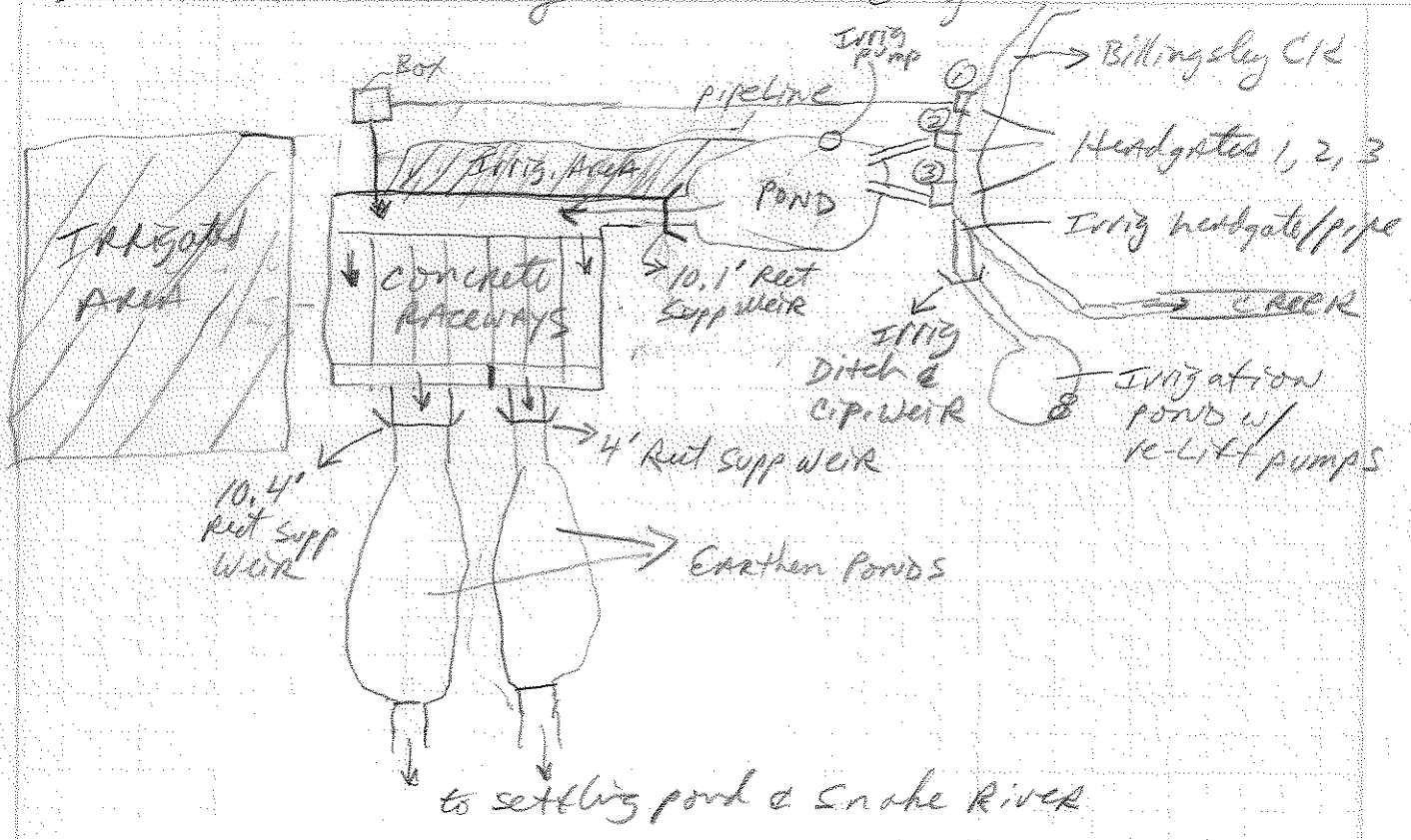
Sturdivant Hatchery Diversions & System



3 Headgates in creek to hatchery, gate ①, furthest upstream, goes to a pipeline which dumps into upper concrete raceways. gates ② & ③ both discharge to pond. There is a 10.1 ft. suppressed rectangular weir at bottom of this pond & above concrete raceways, but this water is commingled w/ water from pipeline & gate ①. Actual measurement of hatchery use should be from the two checkboard weirs located @ bottom of concrete raceways (North weir is 10.4' rect. supp. weir, south weir is 4' rect. weir)

ON 7/12/04, Flow of north weir = 10.1 cfs
(h = 0.44, L = 10.1 ft.)

Flow of south weir = 6.2 cfs
(h = 0.60, L = 4 Ft.)

16.3 cfs

Note: an 8 hp Irrig pump in pond above concrete raceways estimated @ 96 gpm or 0.2 cfs. Total flow of gate 1+2+3 = 16.5 cfs