

RECONFIGURED PONDS E12-E13 APPLIED SCIENCE LESSONS LEARNED: ISLANDS & FORAGING/ROOSTING MOUNDS

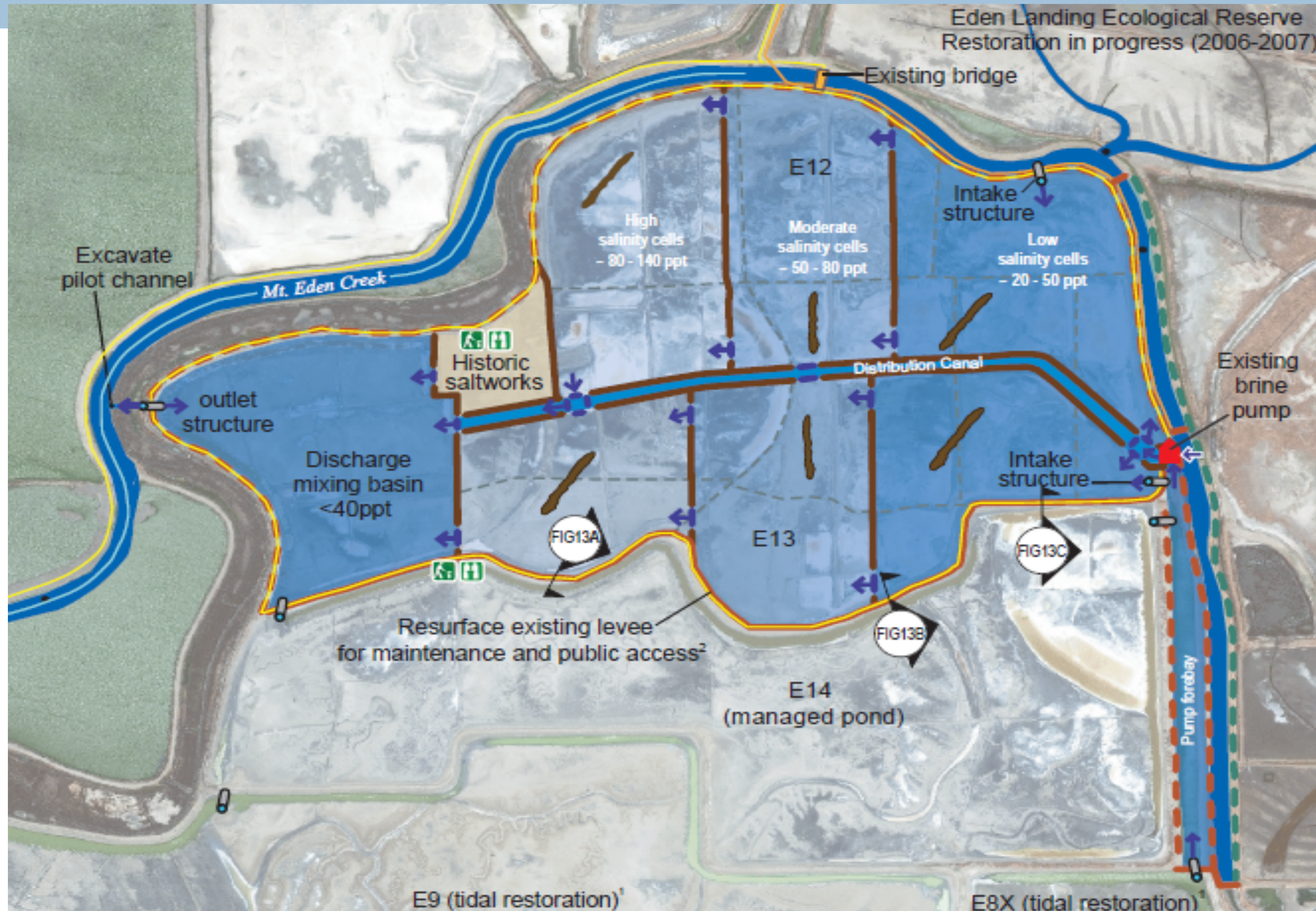
John Krause, Wildlife Biologist, CDFW

Eden Landing Ecological Reserve (ELER)

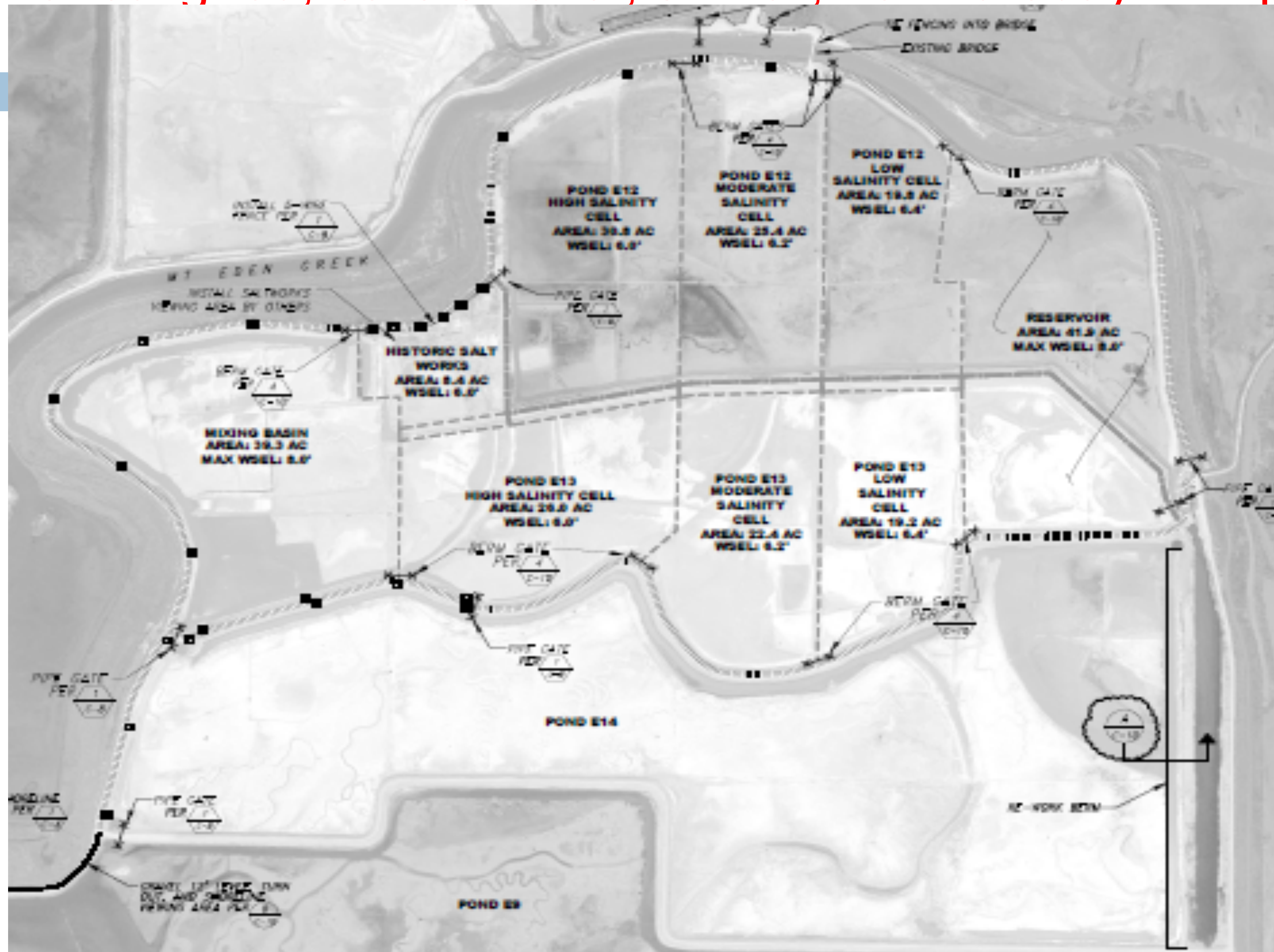
Before as Seasonal Ponds, dry in summer



2008 Design (EIR/S) (no reservoir, old pump, cells larger, island locations not optimized)



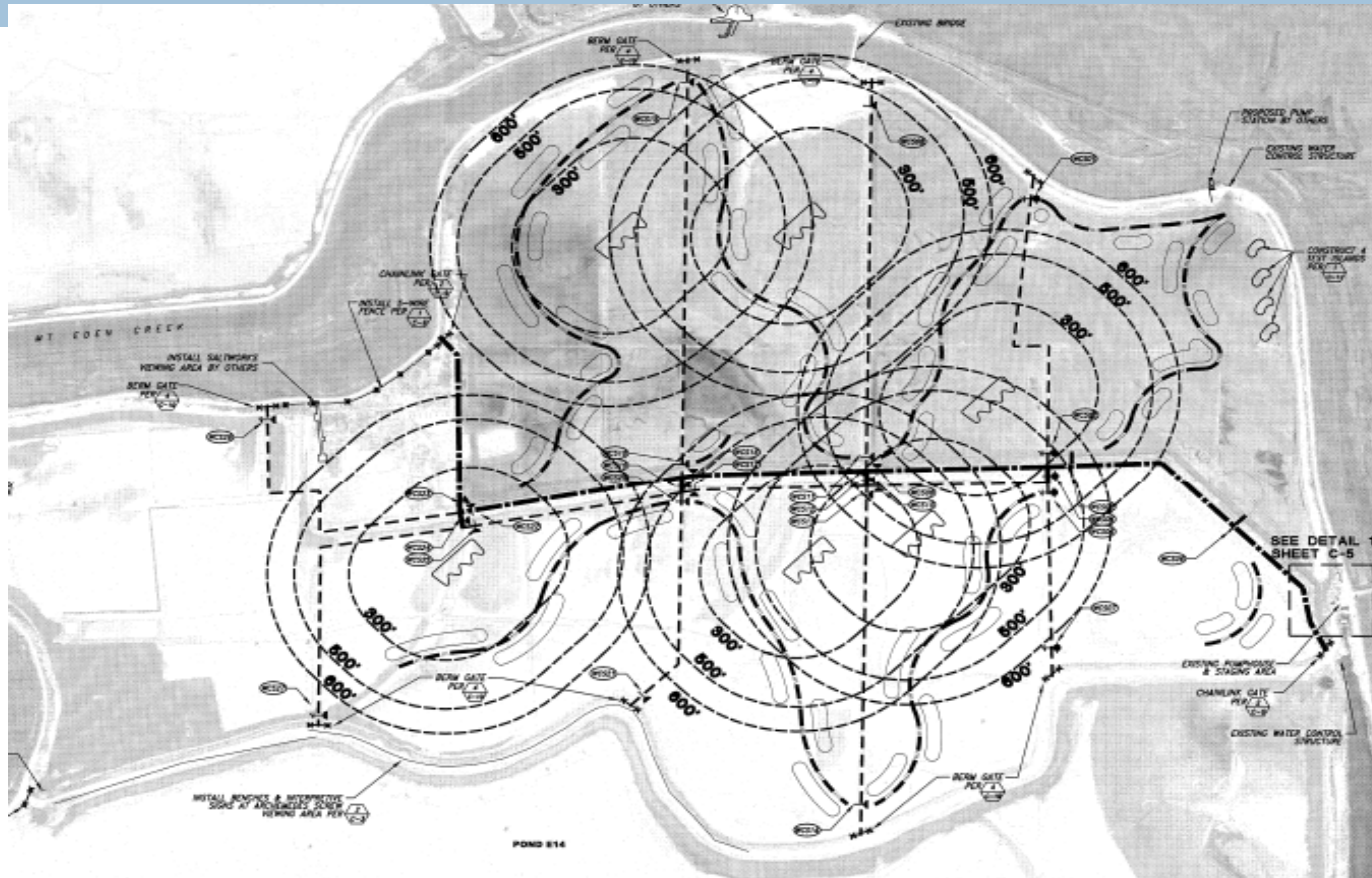
Berms realigned, cells smaller, similar; new forebay with pump



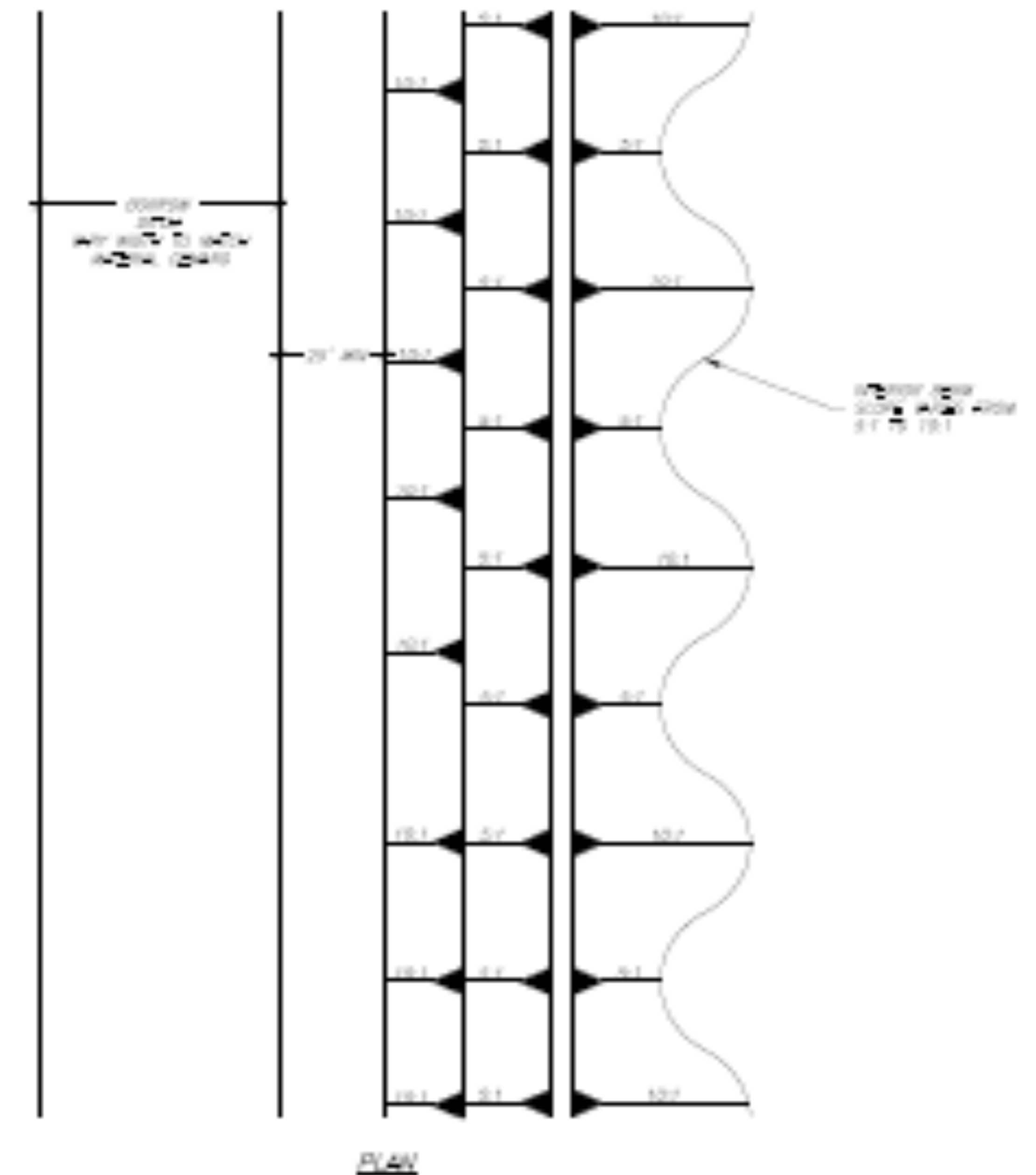
SNPL nest buffer size- island location optimized re: disturbance



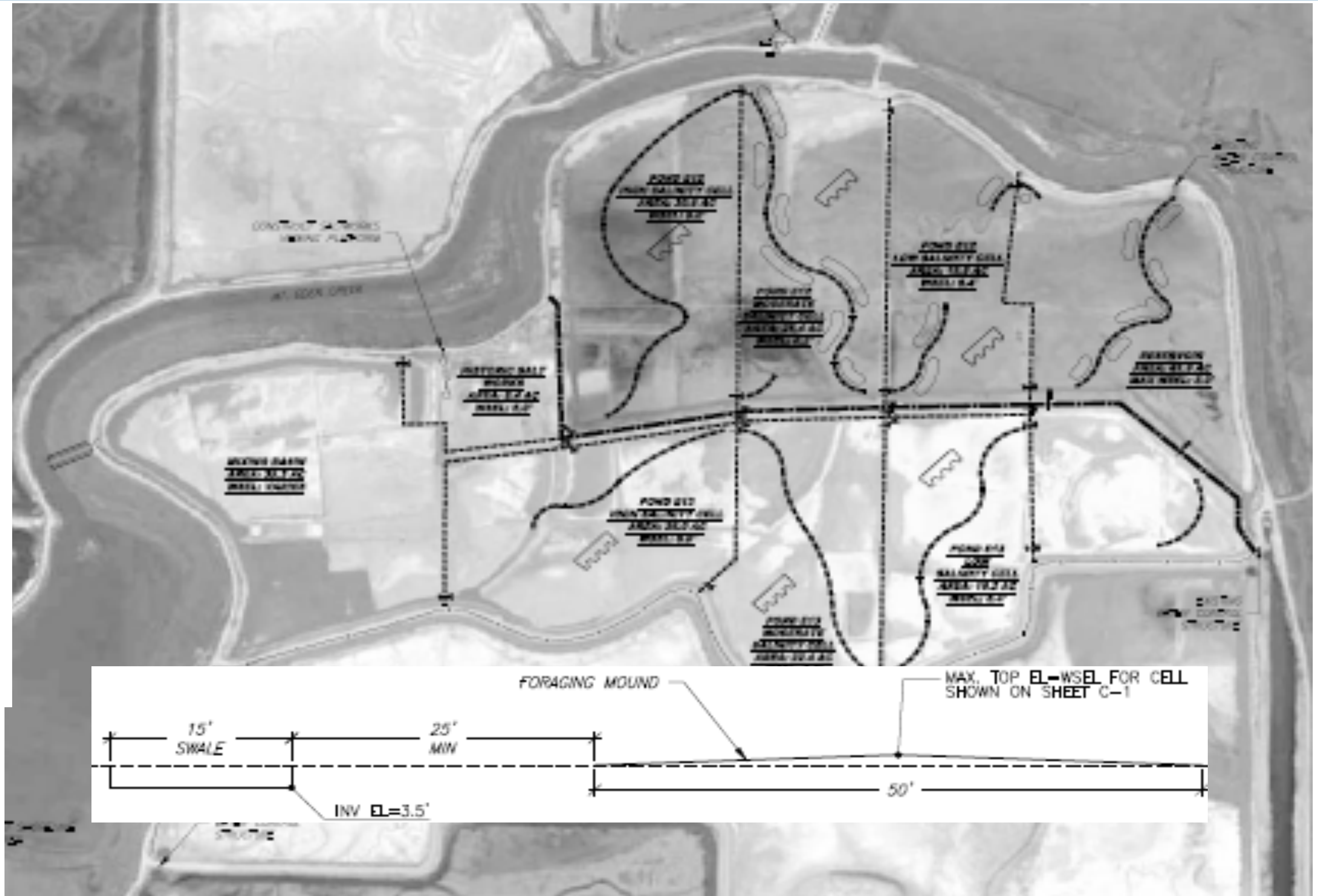
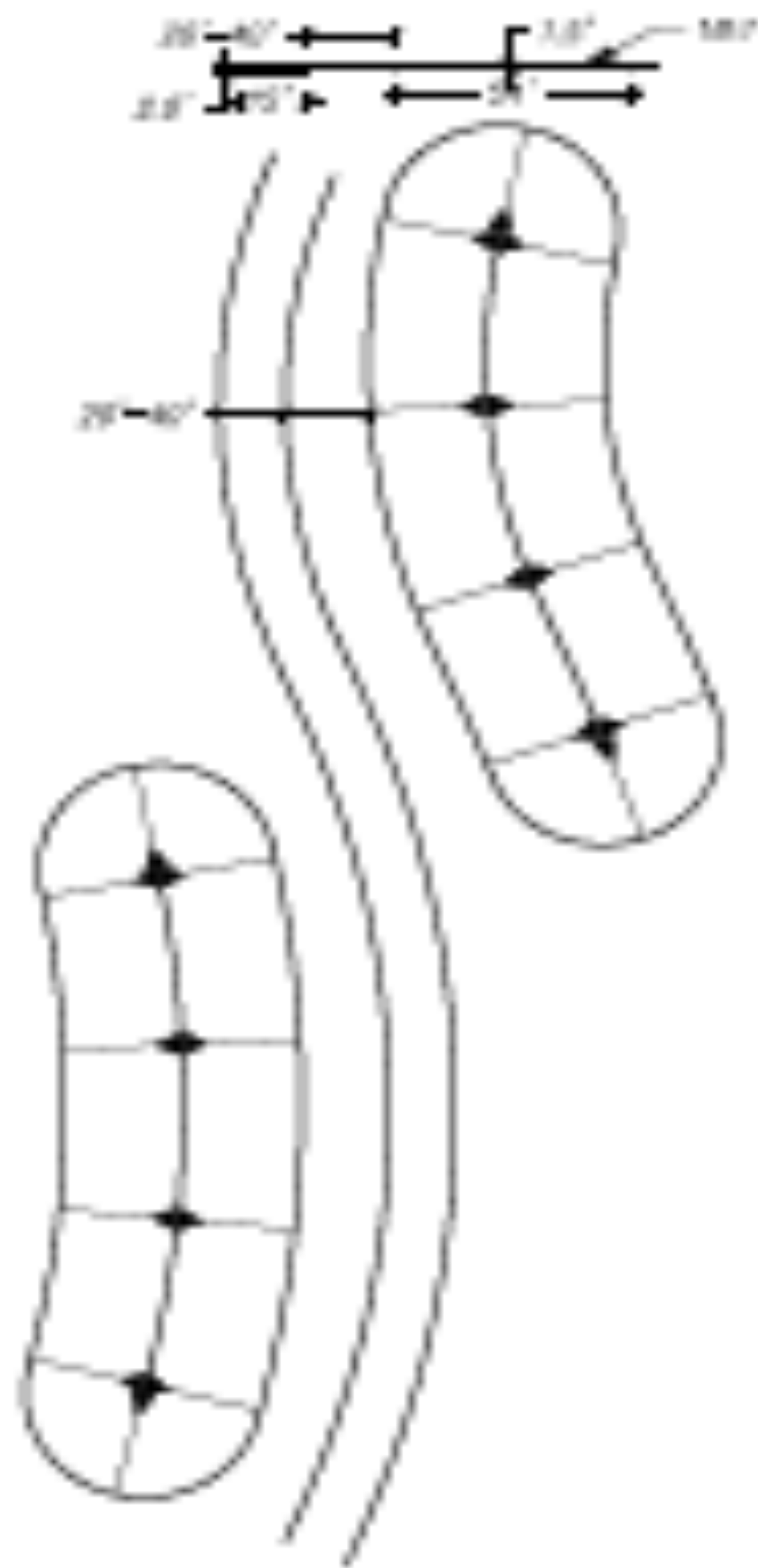
Islands located based on trail buffer max (600 feet)



Constructed berms with finished grade varied slopes (5:1 to 10:1) for enhanced foraging/roosting



Excavated channels and mounds (~12" high, 25:1 side slopes) for topographic variation



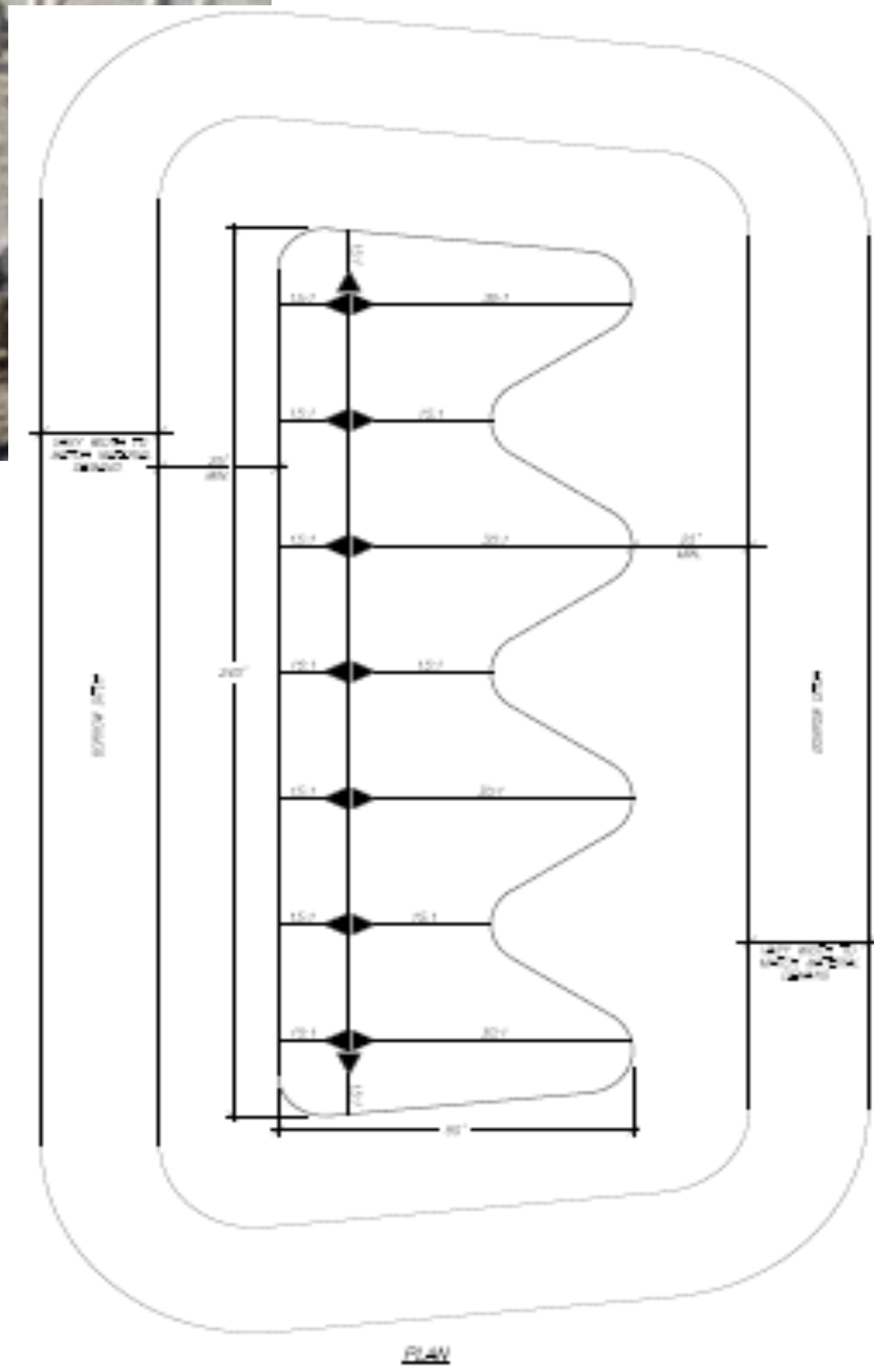
5 Test Islands, varied surface treatments, incl. lime, gravel, oyster shells lower top elevation, to address cracking



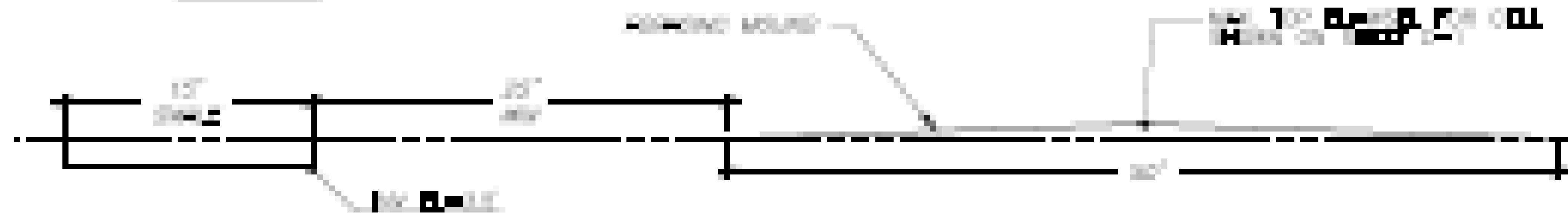
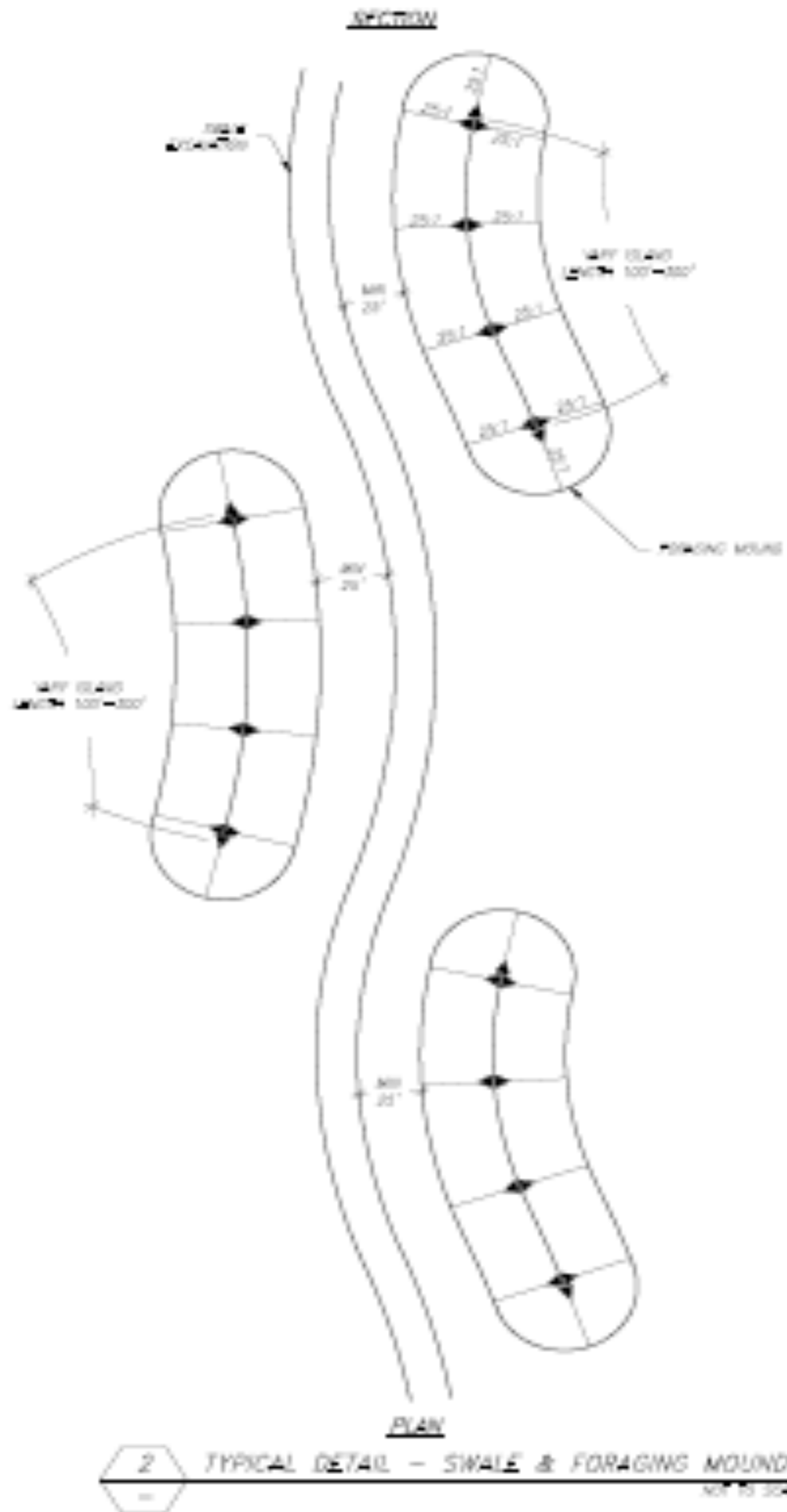
Test Islands: gravel, oyster shell, Lime treated simple excavated earth, imported earth fill



Islands Constructed



Swales & Mounds: excavated earth



E12-E13: Flooded Up, Operated 2014-15; Reached targets



Thanks to all of our project partners!

