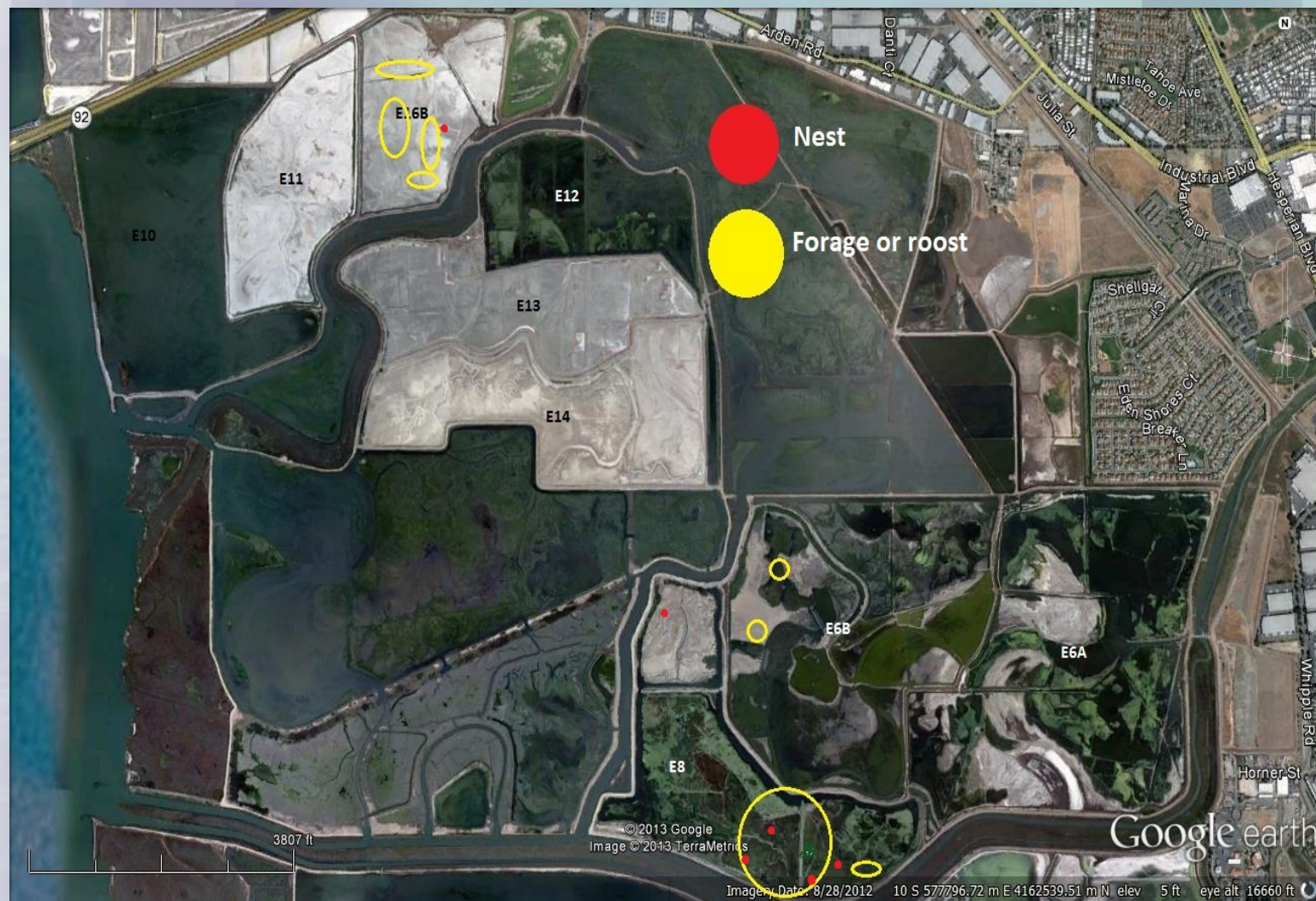




E12-E13 Design Revisions, Informed by Science, Implemented in Design and Construction: Islands and Foraging/Roosting Mounds

John Krause, Wildlife Biologist, CDFW
Eden Landing Ecological Reserve (ELER)

Pond Mgmt. Objective: Increase foraging/roosting esp. during migrations and winter when greatest energy demand (100,000 shorebirds and 10,000 waterfowl)
Provide nesting habitat- residents e.g. AMAV, BNST, Terns; SNPL (T&E)



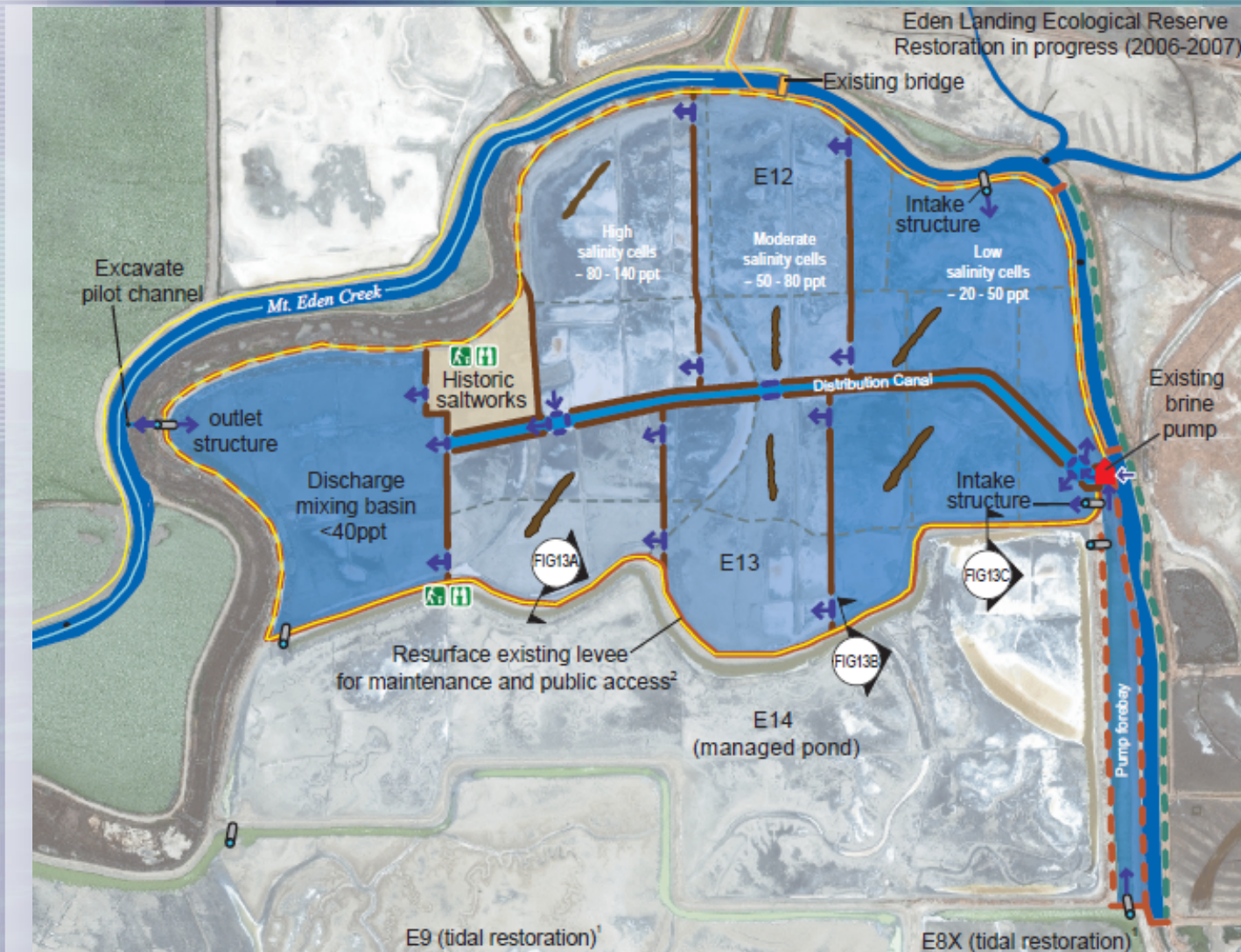
ISP & SBSP Implementation: transition from salt ponds to tidal marsh and managed ponds



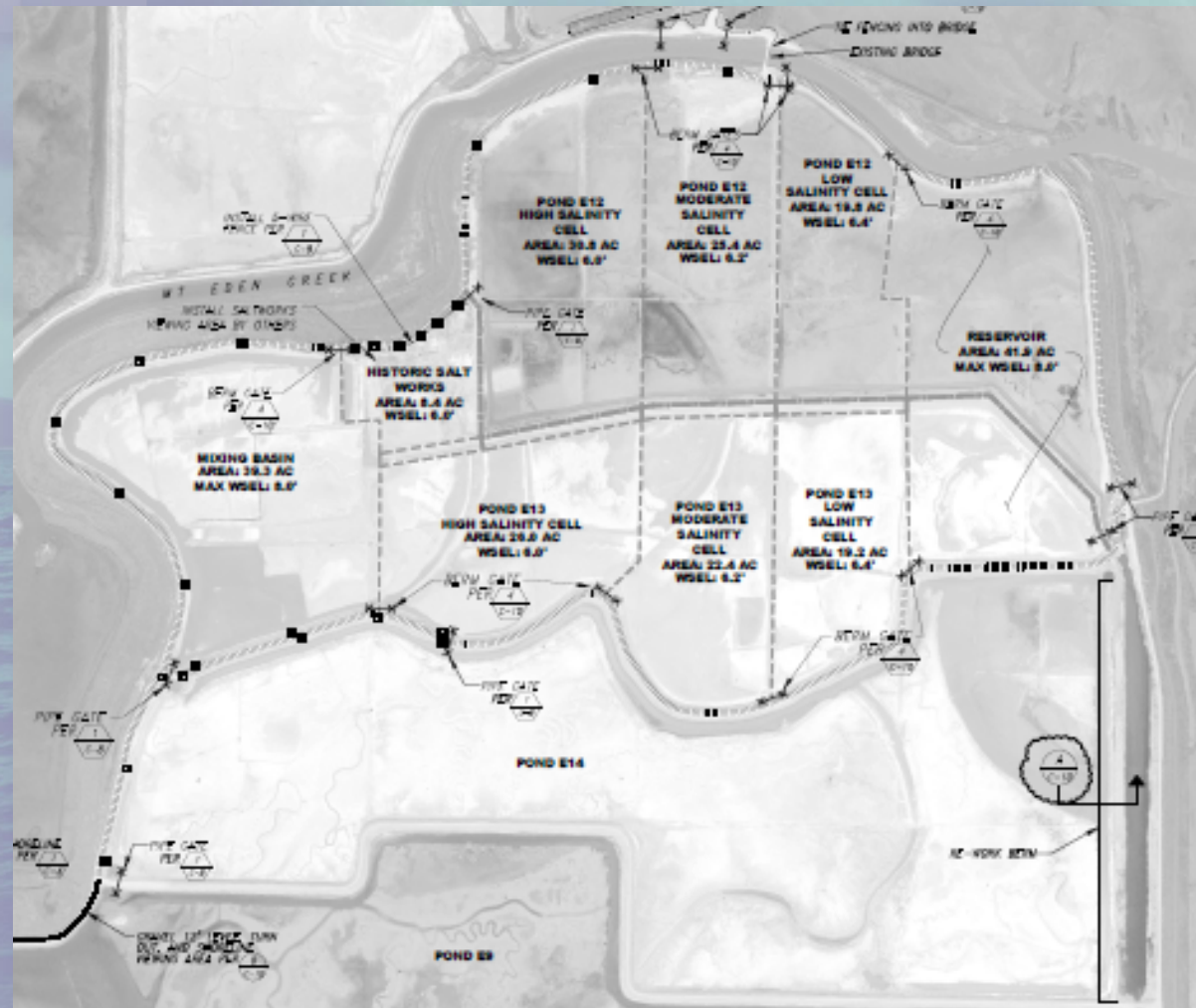
Seasonal Ponds, dry in summer



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



Berms aligned, cells similar in size,
new forebay, pump



Construction Opportunities and Constraints (SNPL nests)



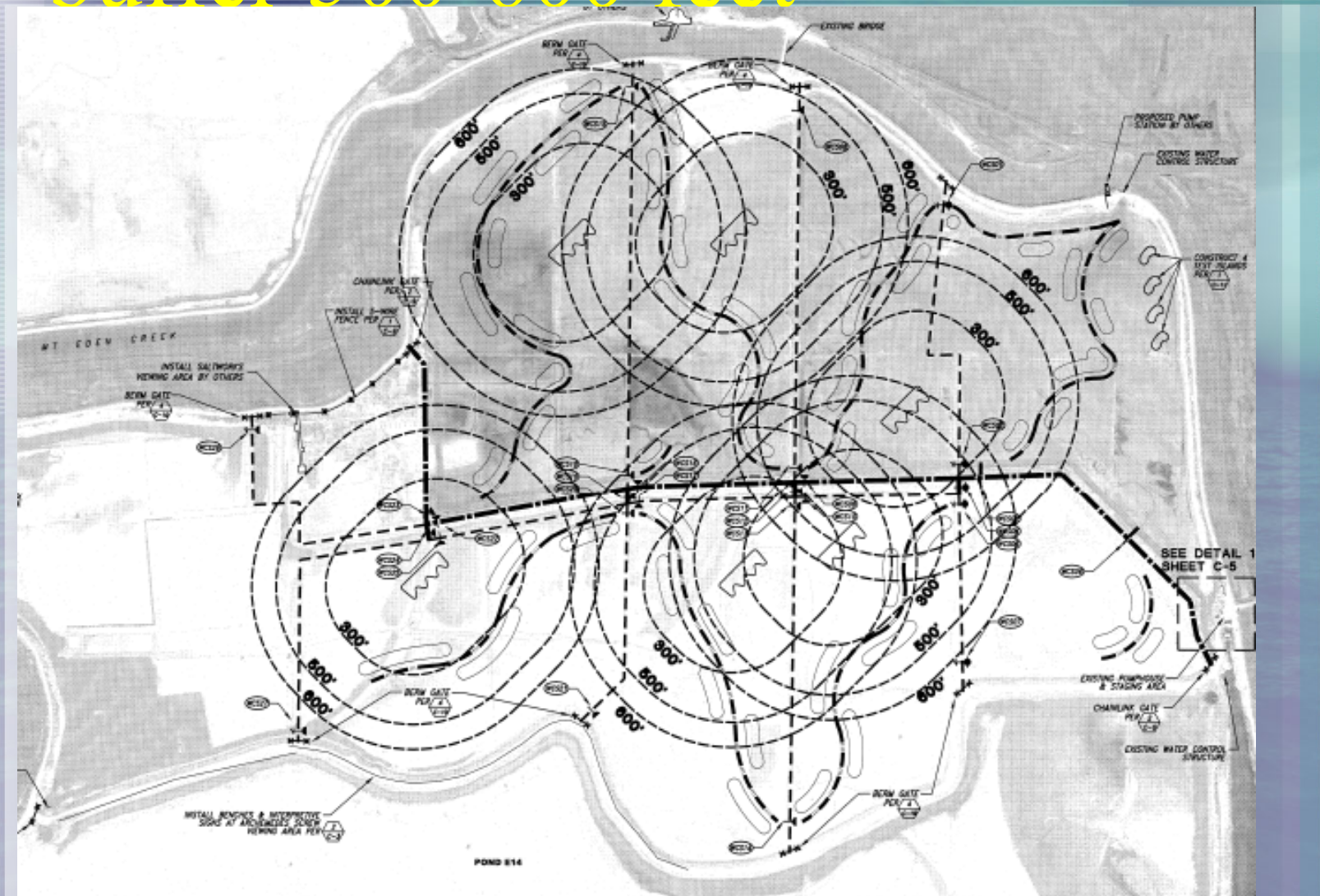
Construction: excavated mud berms



Berm and mound construction



Islands located based on trail buffer 500-600 feet



Test Islands, with surface treatments, pond drawn down, dried



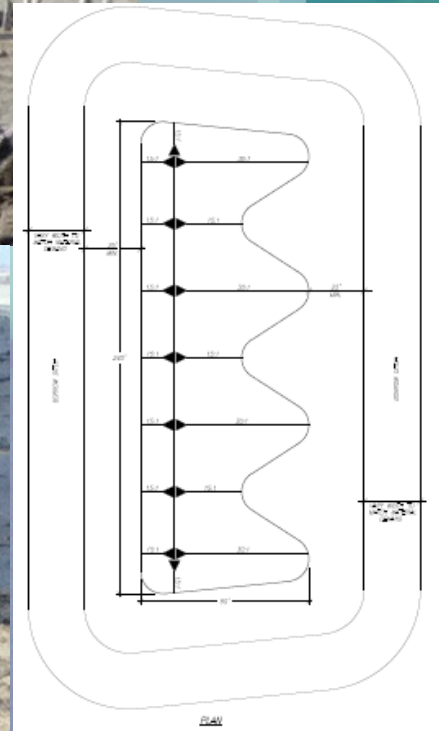
Test Island: excavated earth cracking



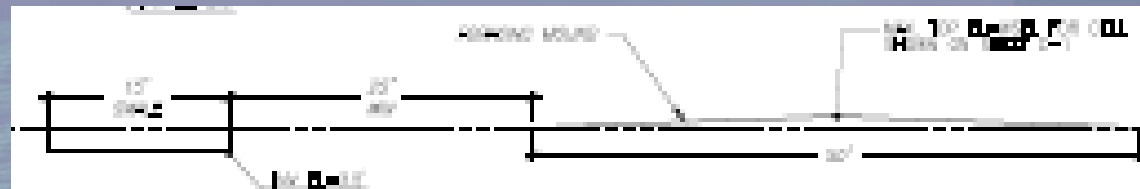
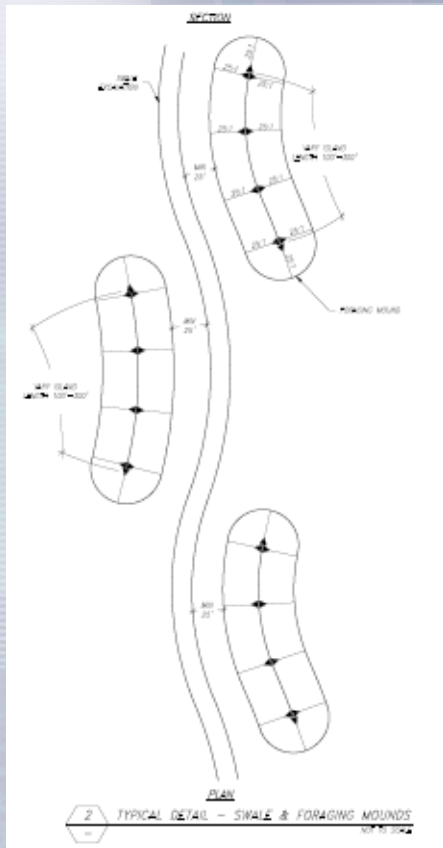
Test Islands: gravel, oyster shell, Lime treated simple excavated earth, imported earth fill



Island Construction: excavated earth



Swales & Mounds: excavated earth



Thanks to all of our project partners!



