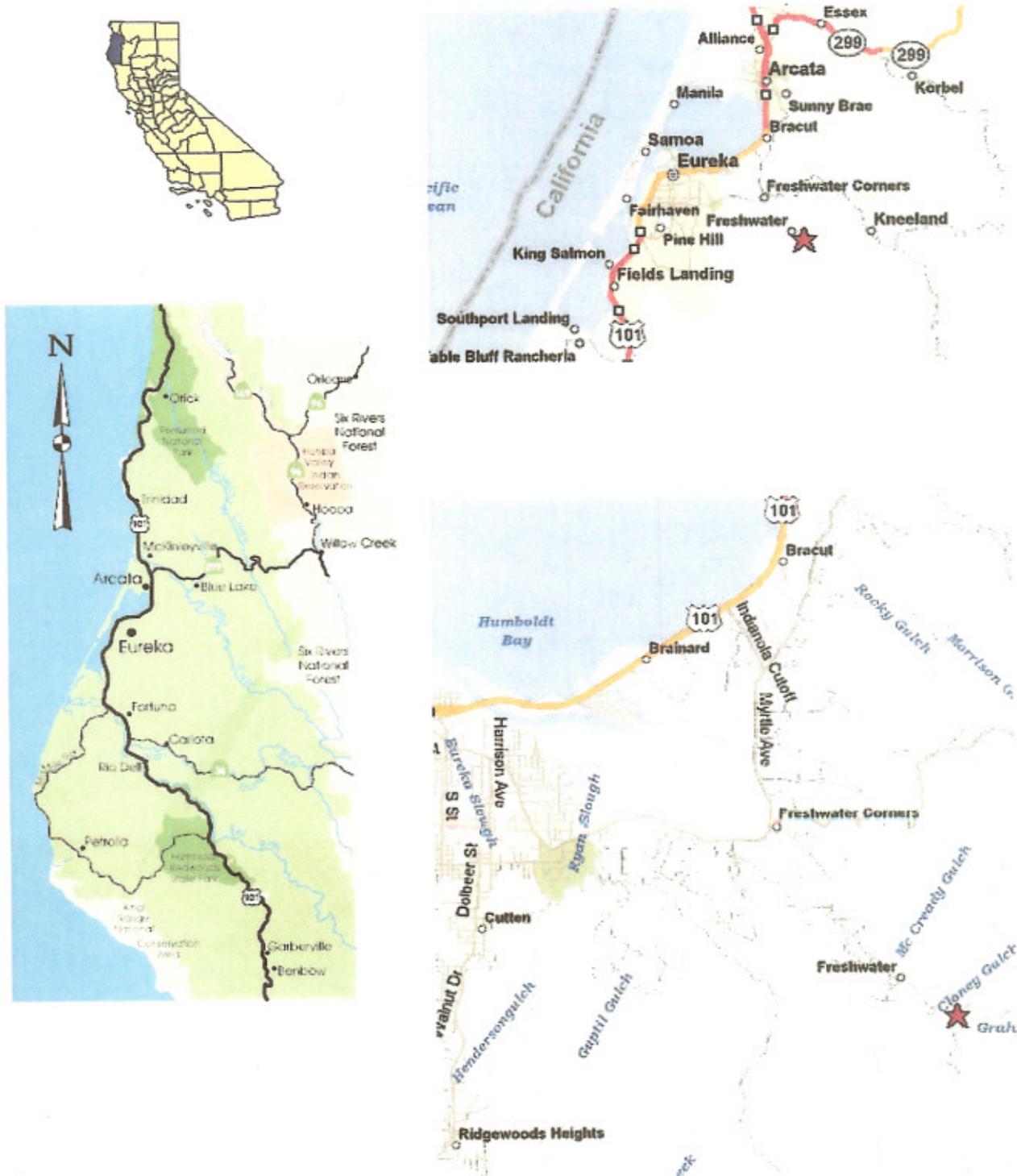


Figure 1. Project Vicinity Maps



Purpose: Seasonal Dam Installation, Fish Bypass Structure & Fish Habitat Improvements, Public Access Improvements
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Figure 2. The project is located in T4N, R1E, Sec. 3 of the Arcata South USGS 1:24,000 Scale Quad Map

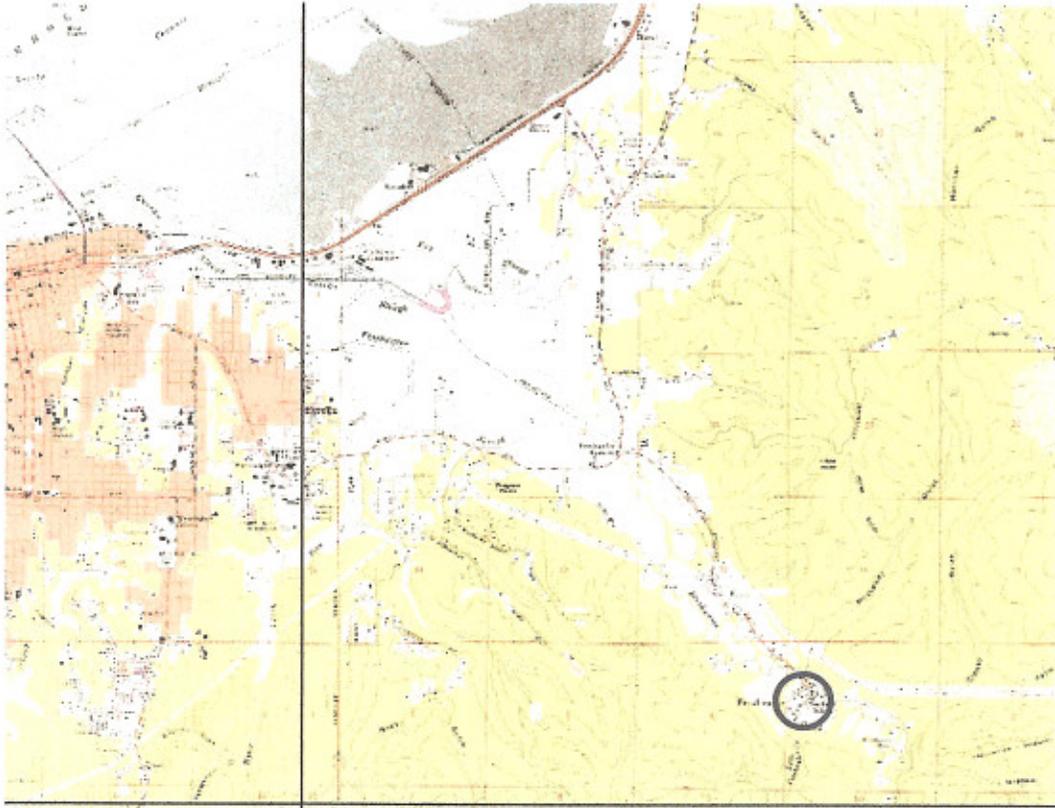
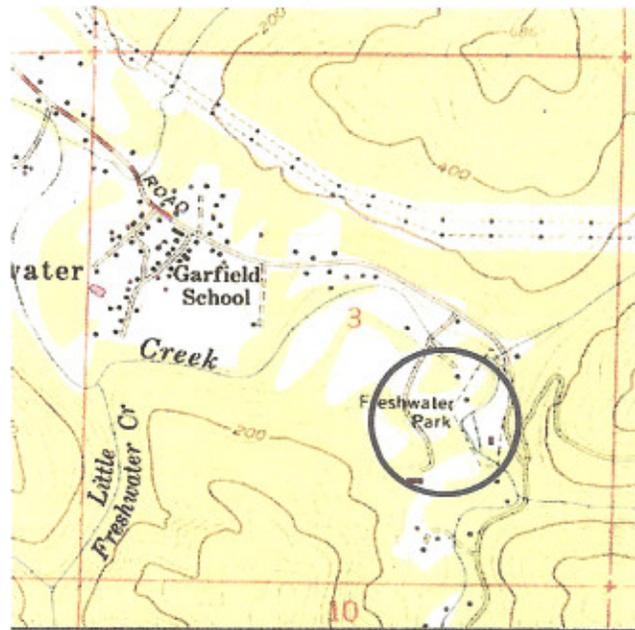


Figure 3. Enlarged View of Section 3 within T4N, R1E



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Enclosure 1

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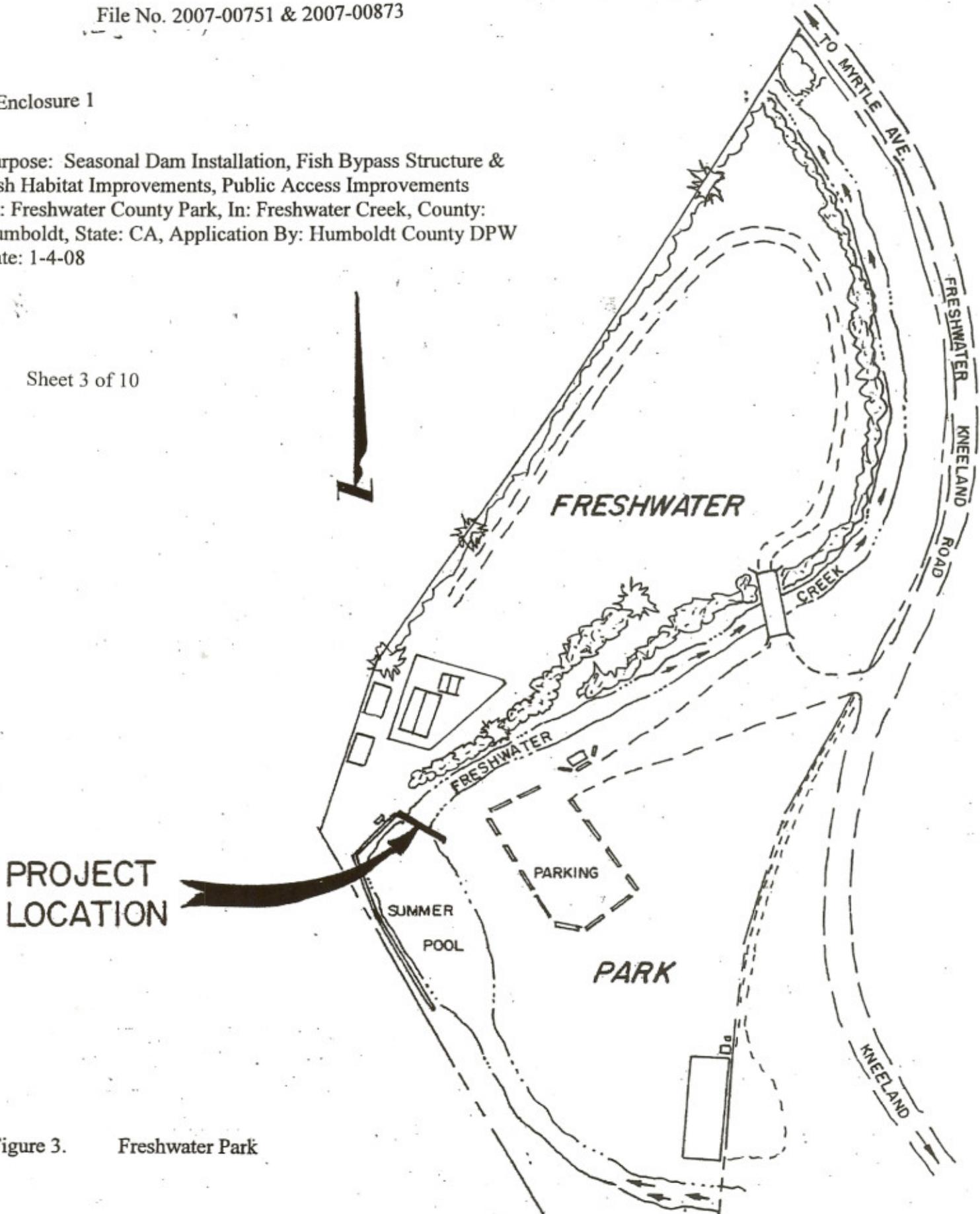
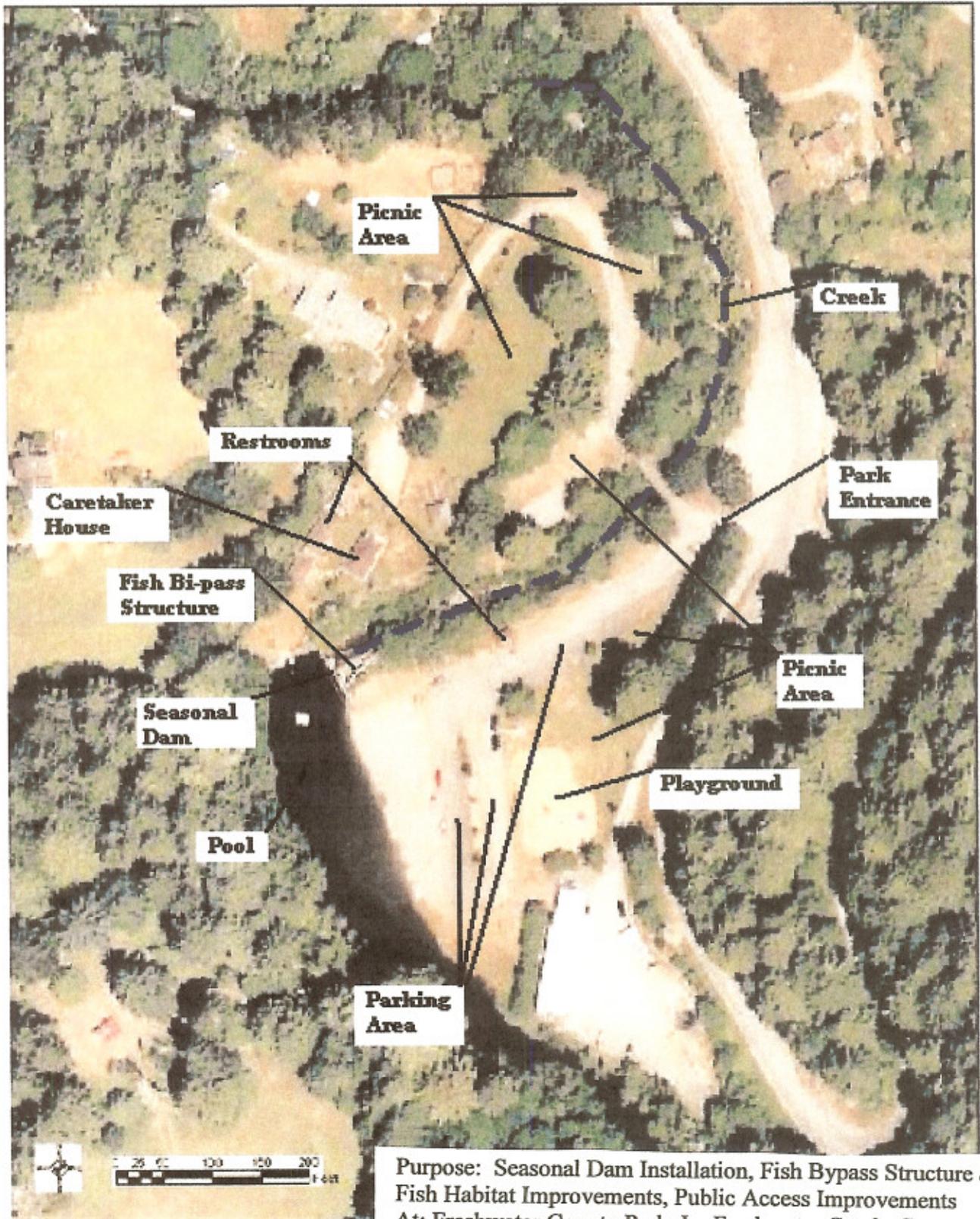
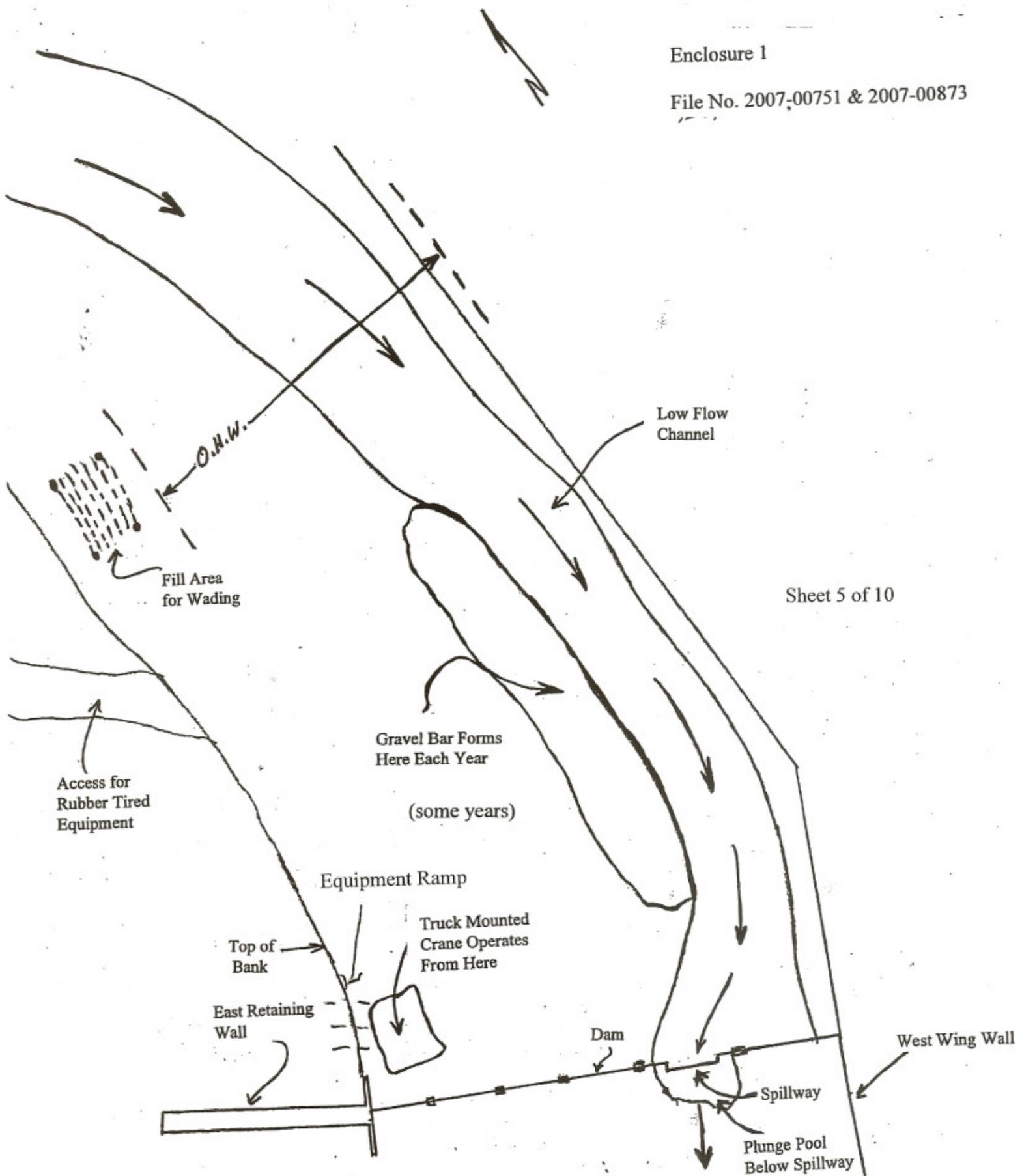


Figure 3. Freshwater Park

Figure 4. Existing facilities and amenities at Freshwater County Park



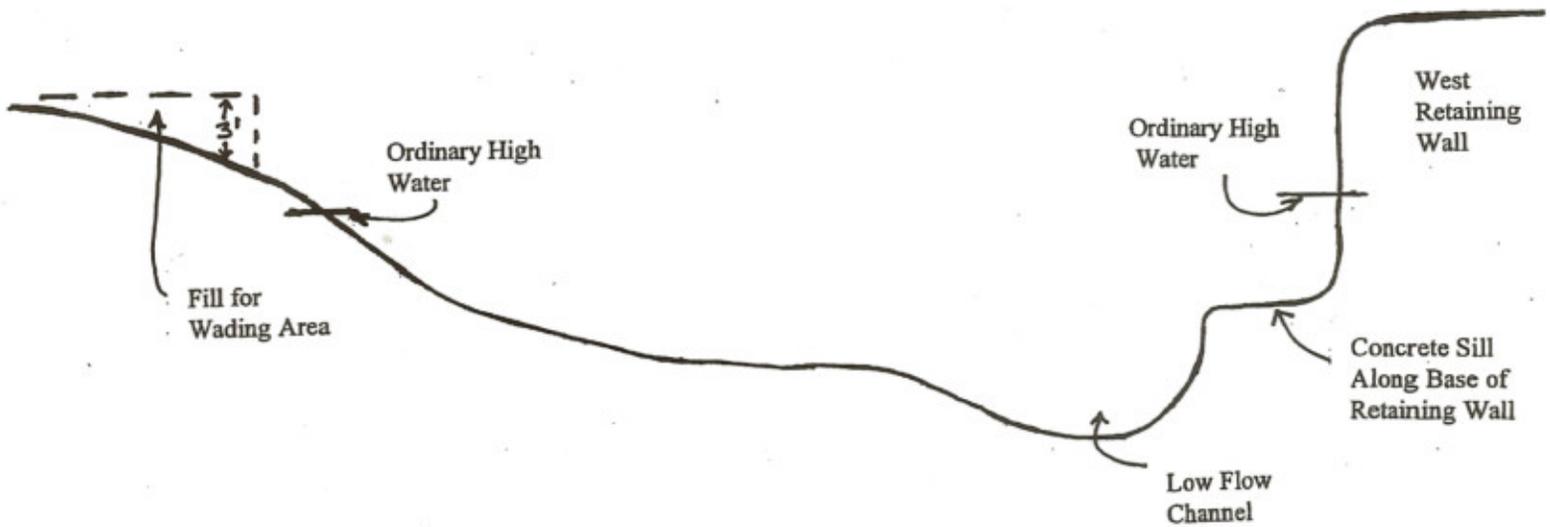
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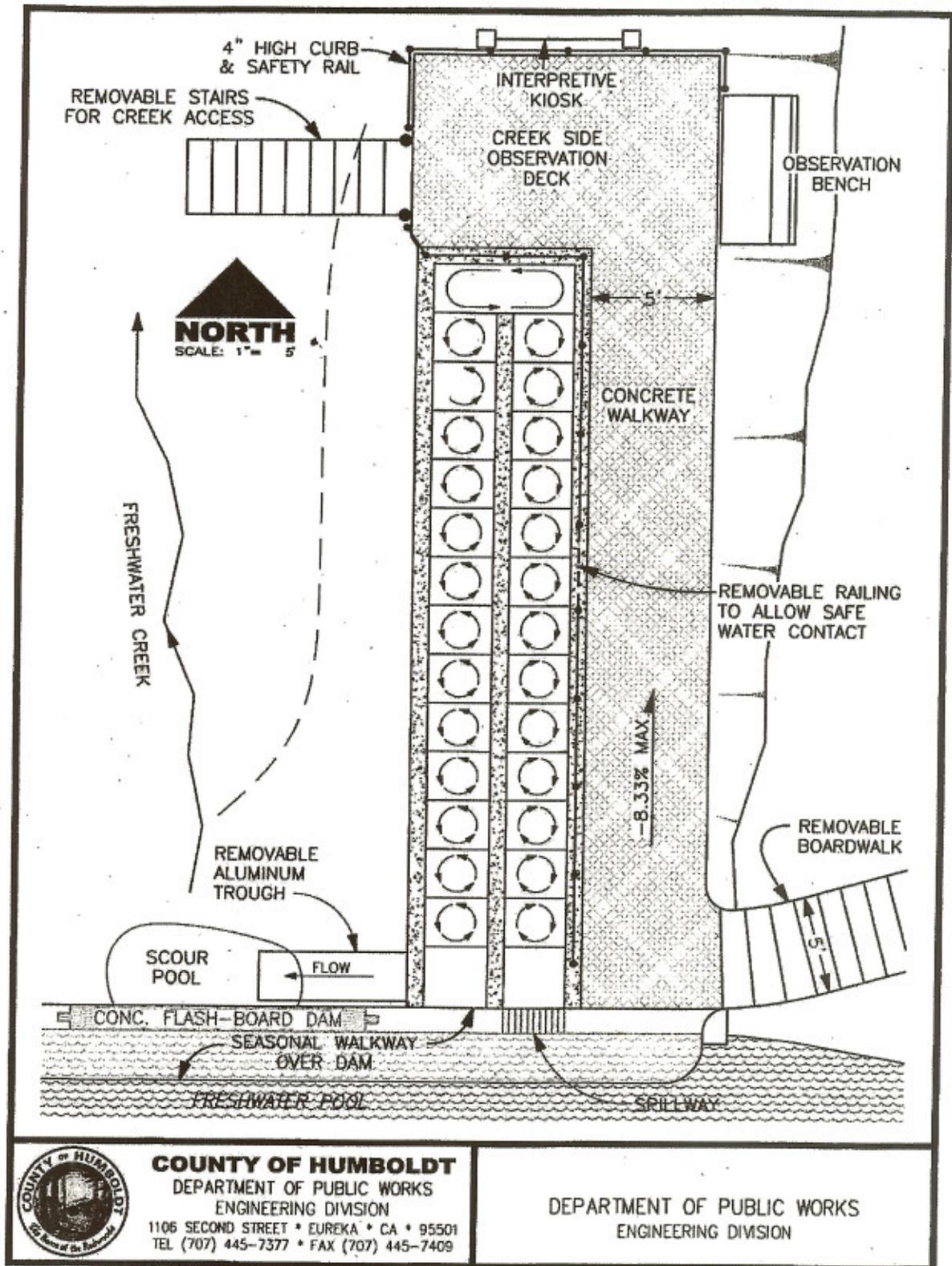
Not to Scale



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Figure 10. Freshwater Park; profile view at wading area fill.

Figures 5. Design drawing of access ramp, observation platform, and permanent fish ladder.

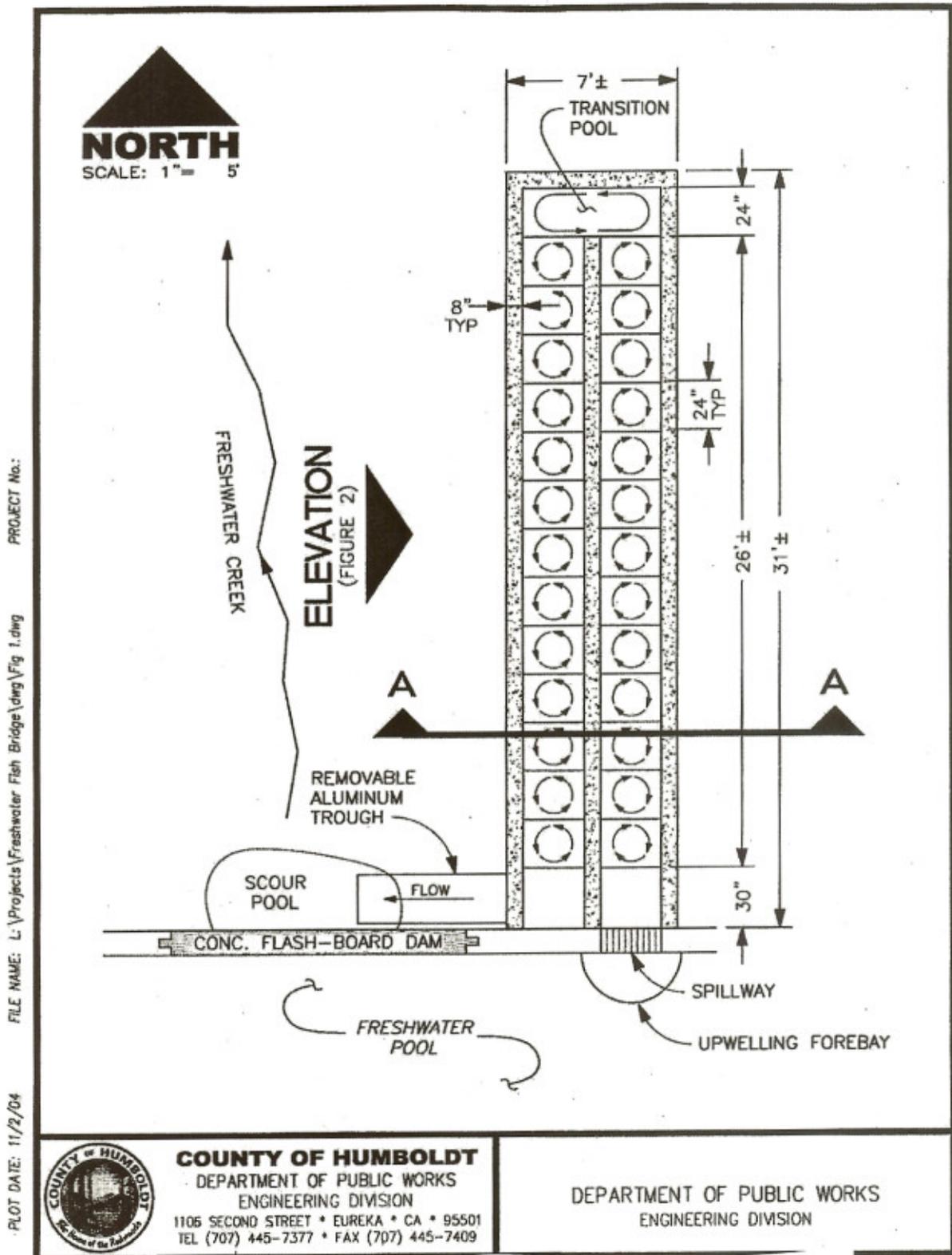


COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
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Figures 6. Design drawing of permanent fish ladder.



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PLOT DATE: 03/09/07

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Enclosure 1

File No. 2007-00751 & 2007-00873



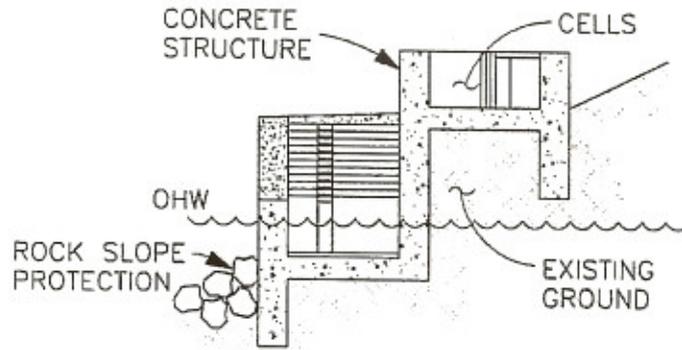
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DRAWN BY: MDC

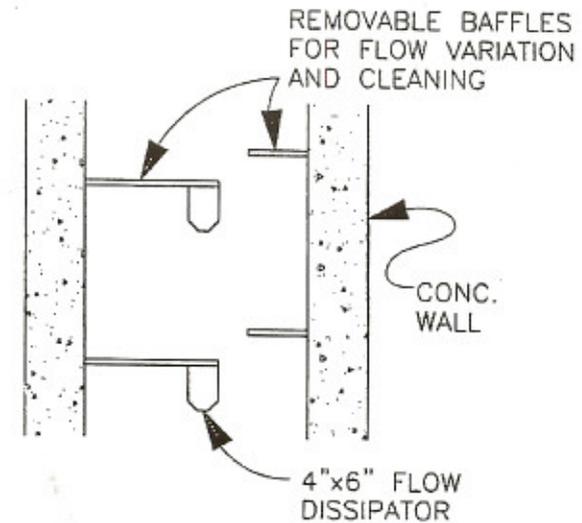
REVIEWED BY: CJW

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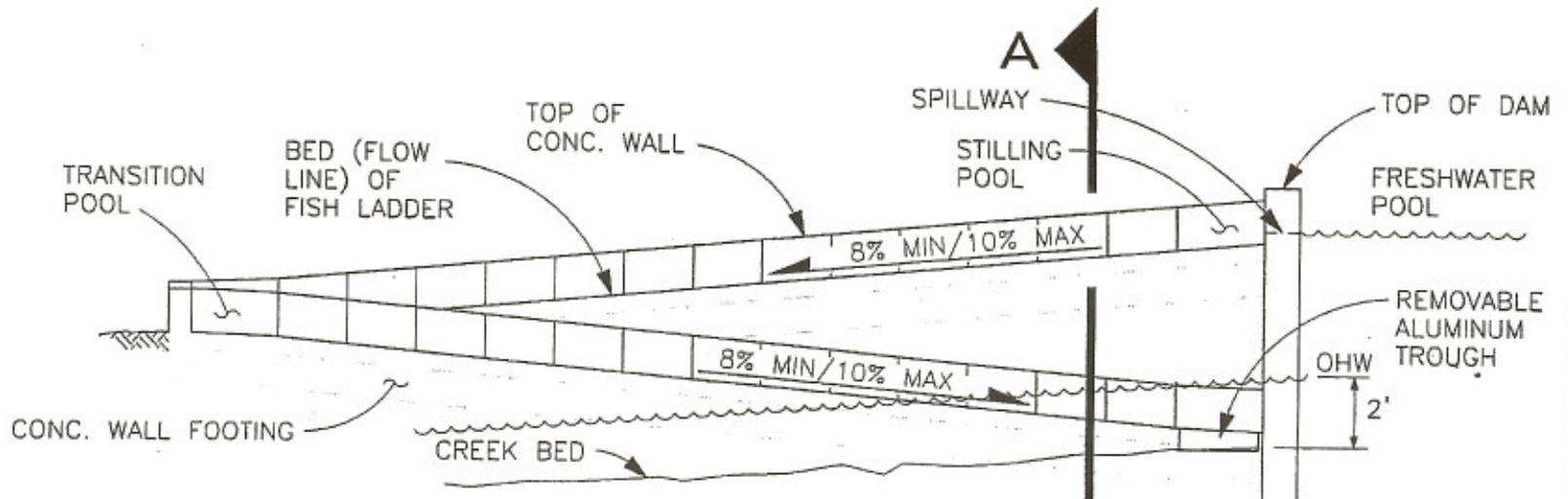
FIGURE 10A
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SECTION A-A



CELL DETAIL



ELEVATION

Freshwater Parks Improvements Project

Associated Permanent and Temporary Impacts

Fill & Excavation -- Permanent Impacts (Includes impacts to vegetation and streambank that are permanent)

Component	Size (LxW) (feet)	Total Area (sq. feet)	Length of Impact (feet)	Acres	Fill (cubic yards)	Excavation (cubic yards)
Fish Ladder (two raceways)	60x7	420	60	0.010	N/A	
Access Ramp	60x5	300	60	0.007	N/A	
Observation Platform	13x12	156	13	0.004	N/A	
Overall Impacted Work Area for above components	75x20	1,500	75	0.034	180	450
Bank Stabilization						
Area 1 - Upstream	20x4	80	20	0.002	10	N/A
Area 2 - Downstream	150x4	600	150	0.014	90	45
Fish Habitat Structures (4 Structures @ 10'x4' each)	10x4	160	16	0.004	14	7
Natural Floodplain (Majority of work above OHW)	40x5	200	40	0.005	10	60
Stairs to Creek (3 Sets of Stairs @ 10'x3' each)	10x3	90	9	0.002	10	5
Totals		2,630	310	0.060	314	567

Fill & Excavation -- Temporary Impacts (Includes disturbance to vegetation and bare ground around work areas)

Location	Approximate			
	Size (LxW) (feet)	Total Area (sq. feet)	Length of Streambank Impact (feet)	Area of Temporary Impact (Acres)
Impacted Work Area -- Upstream				
Rock Deflector	20x10	200	20	0.005
Native Riparian Planting	100x30	3,000	100	0.069
Impacted Work Area -- Midstream	100x30	3,000	100	0.069
Fish Ladder				
Access Ramp				
Observation Platform				
Native Riparian Planting	60x10	600	60	0.014
Impacted Work Area -- Downstream				
Fish Habitat Structures (x4)	10x10	400	20	0.009
Bank Stabilization	150x10	1,500	150	0.034
Natural Floodplain	40x3	120	40	0.003
Invasive Plant Removal & Native Riparian Planting	420x30	12,600	420	0.289
Stairs to Creek (x3)	10x5	150	15	0.003
Totals		21,570	925	0.495

Total Permanent and Temporary Impacts

Total Length (feet)	Total Area	
	(sq. feet)	(acres)
1,235	24,200	0.556

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