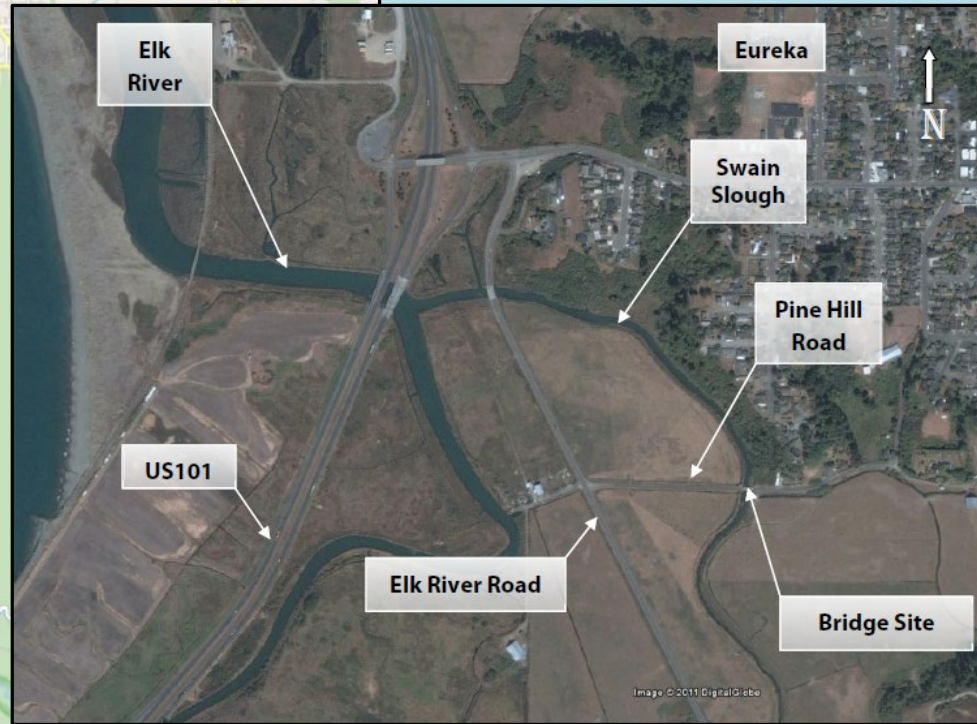
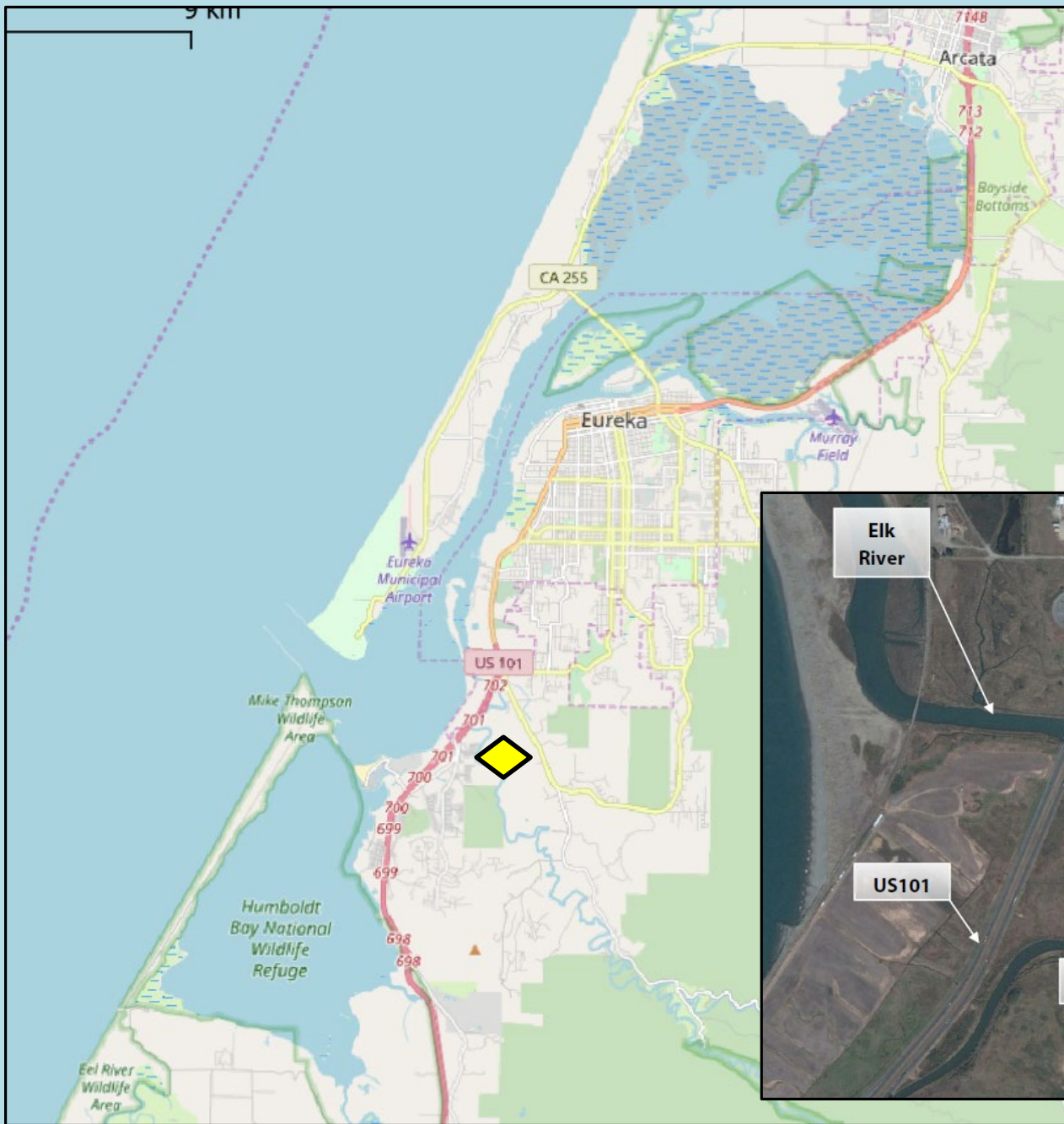


10c. Consideration of Pine Hill Road
Bridge Replacement Project Resolution
and Permit



Existing Bridge

- Three span.
- 63 ft long, 20 ft wide.
- Timber stringer structure with concrete deck.
- Structurally deficient - rot and vertical cracking.



Proposed Bridge

- Single span.
- 80 ft long, 30 ft wide.
- Precast Concrete.

Bridge Construction

- One season.
- No falsework needed (pre-cast bridge).
- Build cofferdam – dewatering.
- Remove bridge and piers. Piers will be broken off below mud line.
- Drive sheet pile and steel pipe piles.
- Install clear-span bridge.

Other Project Components

- Shoulder widening.
- Relocate water line currently attached to bridge using direction drilling under the slough.

Sea Level Rise / Flooding

50-Year Water Surface Elevations and Freeboard at Upstream Face of Bridges

Alternative	Lowest Bridge Soffit Elevation (ft*)	Water Surface Elevation (ft*)	Available Freeboard (ft)
Existing	9.3	11.5	-2.2
Proposed	8.9	11.5	-2.6

Note: * The elevations reference the North American Vertical Datum of 1988 (NAVD 88)

- Soffit is lower than existing bridge, but water capacity is greater (wider channel and no piers in slough).
- Bridge designed so it can be raised to accommodate sea level rise.
- Bridge not accessible at high water conditions.

Environmental Considerations

1. Biology
 - a. Full span bridge.
 - b. Work windows and fish relocation to minimize fish impacts.
 - c. Replacement of impacted sensitive plants species (Lyngbye's sedge) and riparian habitat.
 - d. Nesting bird protection.
2. Erosion control.
3. Prevention of spills.
4. Air quality / dust control.
5. Cultural resource surveys.

Staff Recommendations

1. Adopt Resolution 2020-03 which establishes findings relative to the application by the County of Humboldt for the Pine Hill Road Bridge Replacement Project.
2. Grant Permit 2020-01 to the County of Humboldt for the Pine Hill Road Bridge Replacement Project.