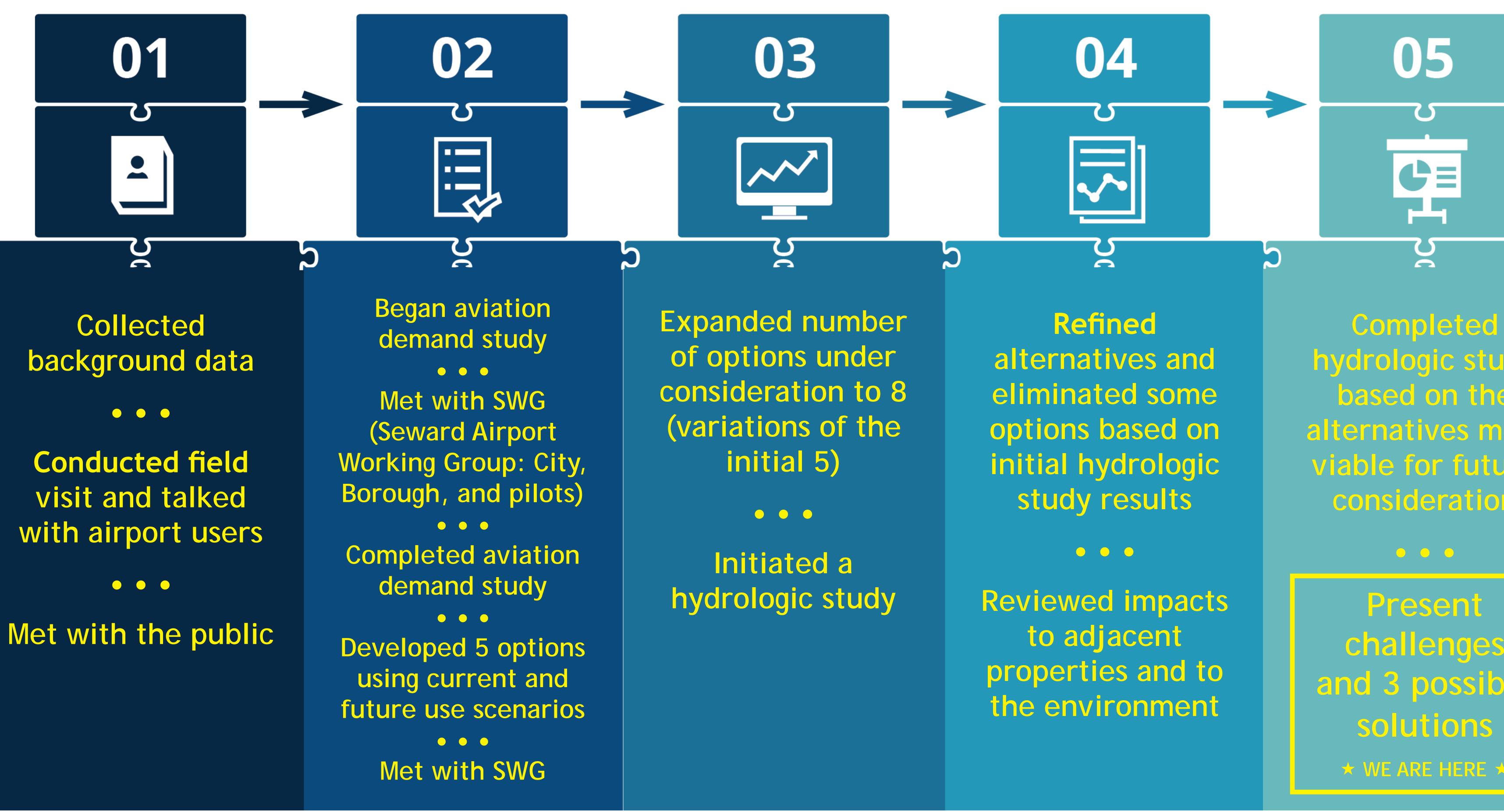
Understanding Possible Solutions



background data

Show you the results of this work—our three final alternatives. Gain additional input on the advantages and disadvantages of these three alternatives.

What we've done so far:

Today we want to:

Initial Alternatives and **Refinement Process**

Completed hydrologic study based on the alternatives most viable for future consideration

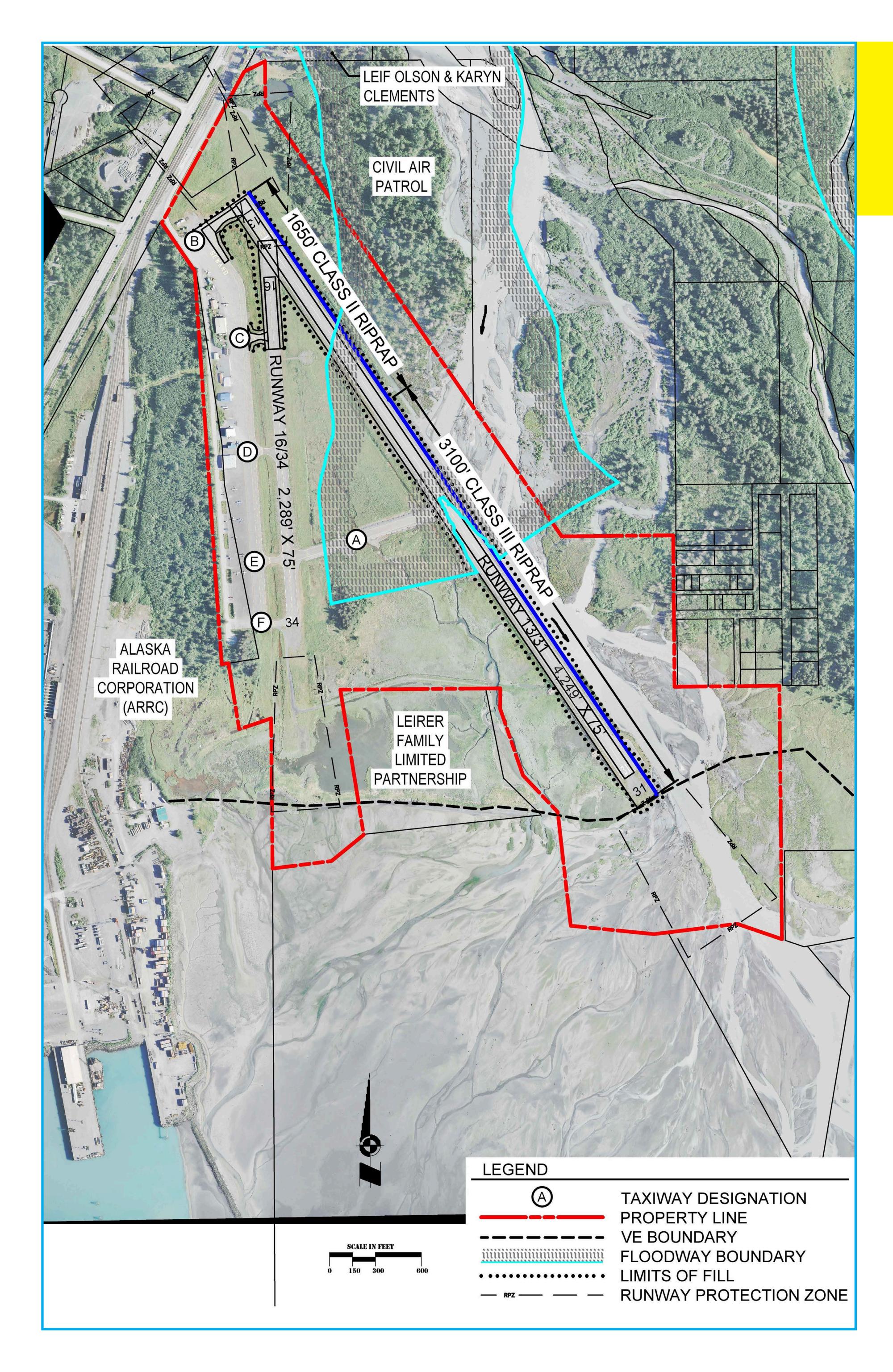
challenges and 3 possible \star We are here \star













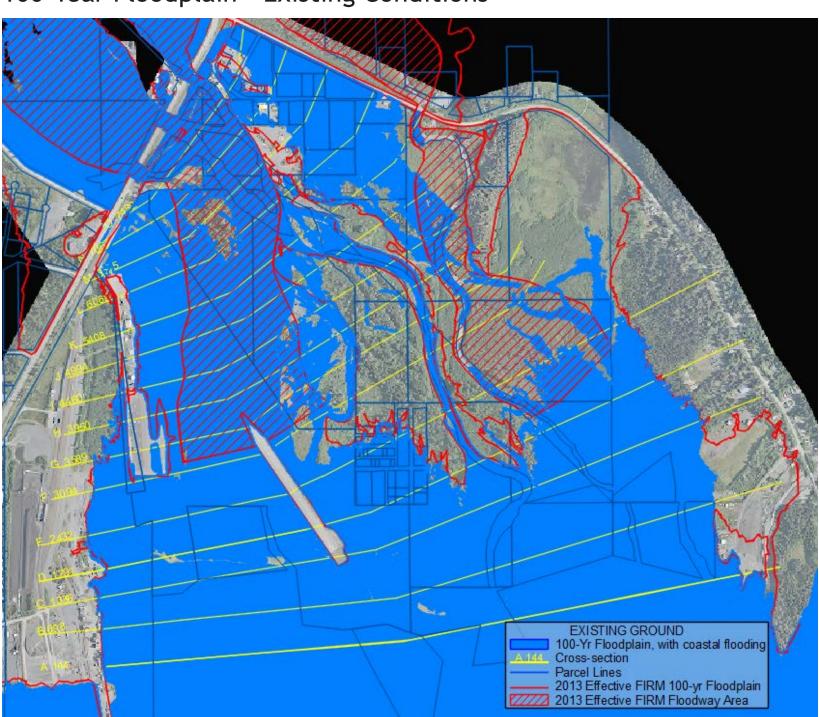
- \rightarrow
- \rightarrow with new FAA guidance.

Key Advantage

Key Disadvantages

- - by about 2 years.
- required in the river.

100-Year Floodplain - Existing Conditions



ALTERNATIVE 1.1

Reconstruct Existing Main Runway (13-31) (4,249 feet x 75 feet)

Reconstruct and raise Runway 13-31 above the 100-year flood level. Install riprap to protect the embankment.

Adjust elevations of Runway 16-34 and Taxiways B and C to match new runway elevation. Eliminate Taxiways A, D, and E to comply

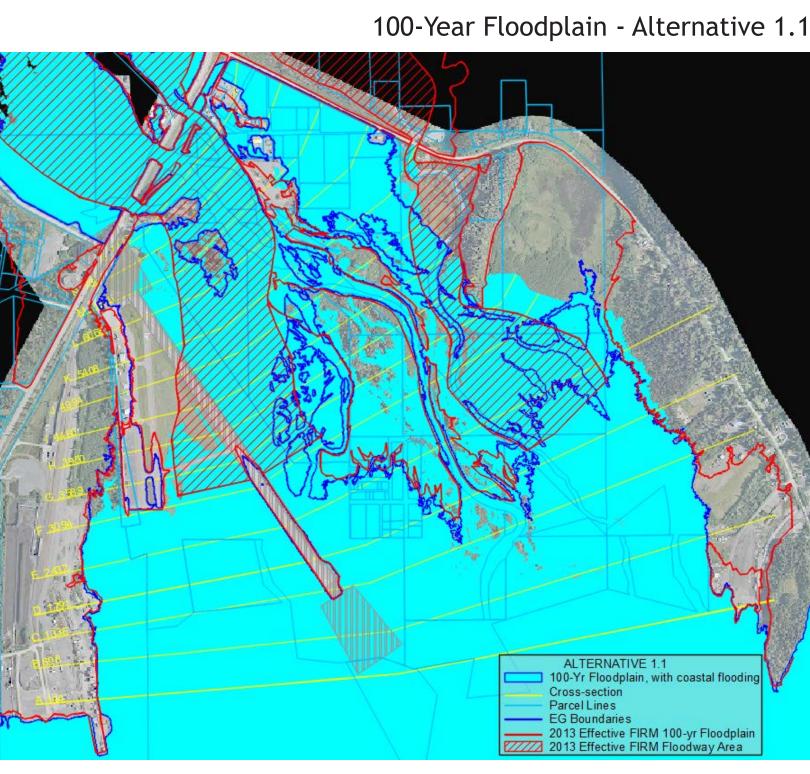
Runway will still accommodate historical jet traffic, although it will be slightly shorter to provide the full required Runway Safety Area.

Creates the greatest flood impacts.

• Requires armoring and raising the runway by 4 feet on average. • The higher runway will redirect more flood water further to the other side of the river, impacting more properties than the other alternatives, thereby lengthening the property acquisition phase. • Impacts the Resurrection River floodway, requiring a revision of the FIRM (flood) map. May not be achievable due to the additional impacts to river properties. Requires a public process. The FIRM revision is expected to lengthen the permitting process

Most difficult option to permit and construct due to the work

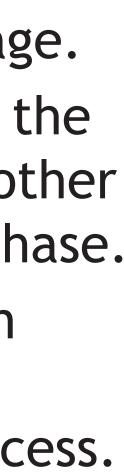
Offset from the apron remains substandard for large aircraft.

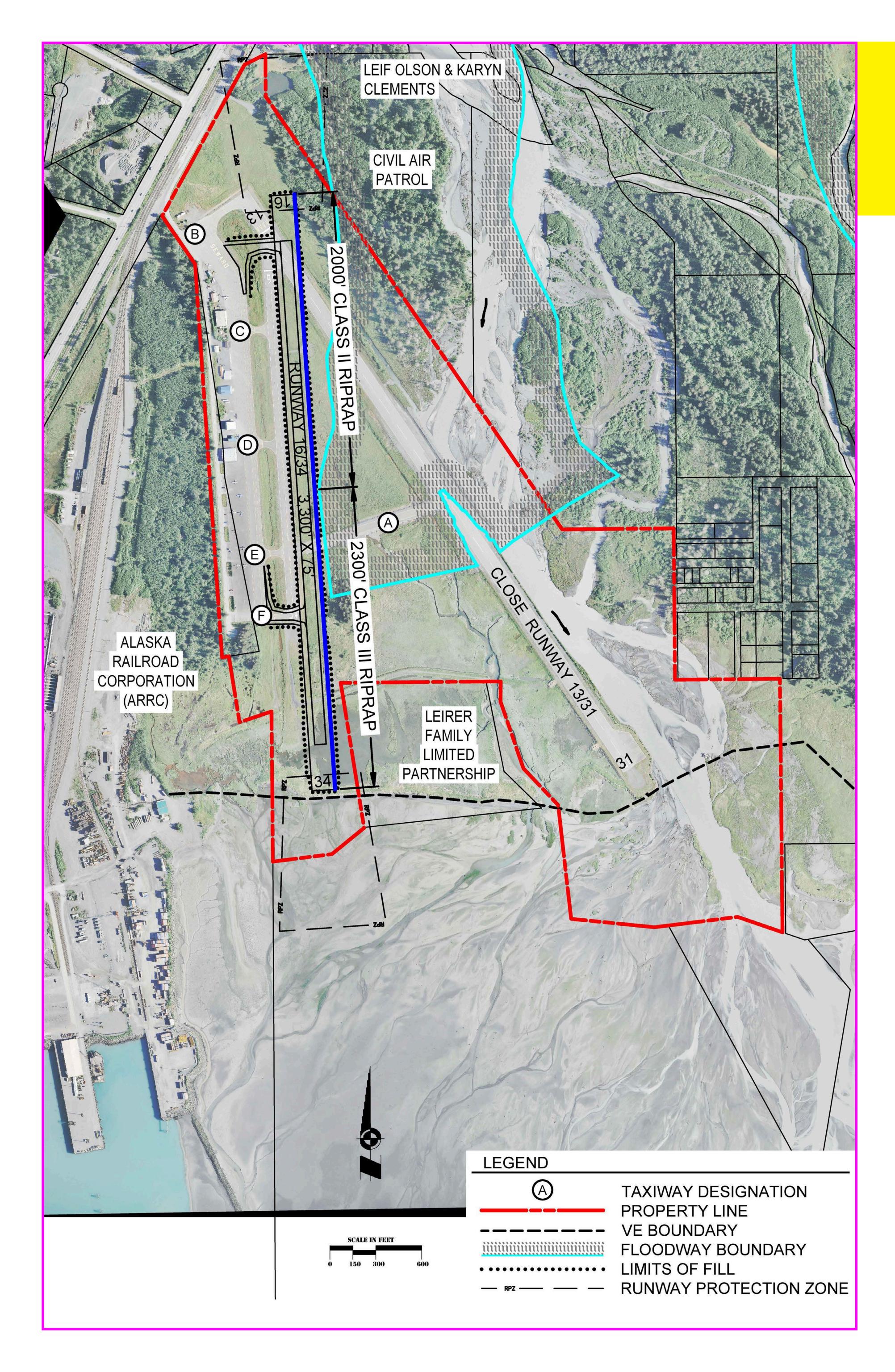














- \rightarrow
- \rightarrow
- \rightarrow FAA guidance.

Key Advantages

- +
- wind direction.
- to use the apron.
- floodway.
- acquisition process.
- warrants.
- Key Disadvantages
- eliminated.
- abandoned runway.

ALTERNATIVE 2.2

Shift Existing Crosswind Runway (16-34) East & Add 1,011 Feet (3,300 feet x 75 feet)

Close Runway 13-31 and allow floodwater to overtop it.

Reconstruct and raise Runway 16-34 above the 100-year flood level. Install riprap to protect the embankment.

Relocate Taxiway B and adjust Taxiway F to match new runway elevation. Eliminate Taxiways A, C, D, and E to comply with new

Sufficient for current and predicted aircraft demand. Accommodates the design aircraft.

Less susceptible to flood damage than Alternative 1.1, since improvements are located further away from the river threat. Lengthens the runway that is best aligned with the predominant

Increases the runway offset from the apron to allow larger aircraft

Has the least environmental and flood impacts of all alternatives. Impacts the floodplain but not the

Raises the 100-year flood level by less than 1 foot, resulting in minor additional flood impacts to river properties. Fewer properties to be acquired than Alternative 1.1, and consequently, a shorter property

Could be phased to extend to a longer runway as future demand

Easiest option to construct.

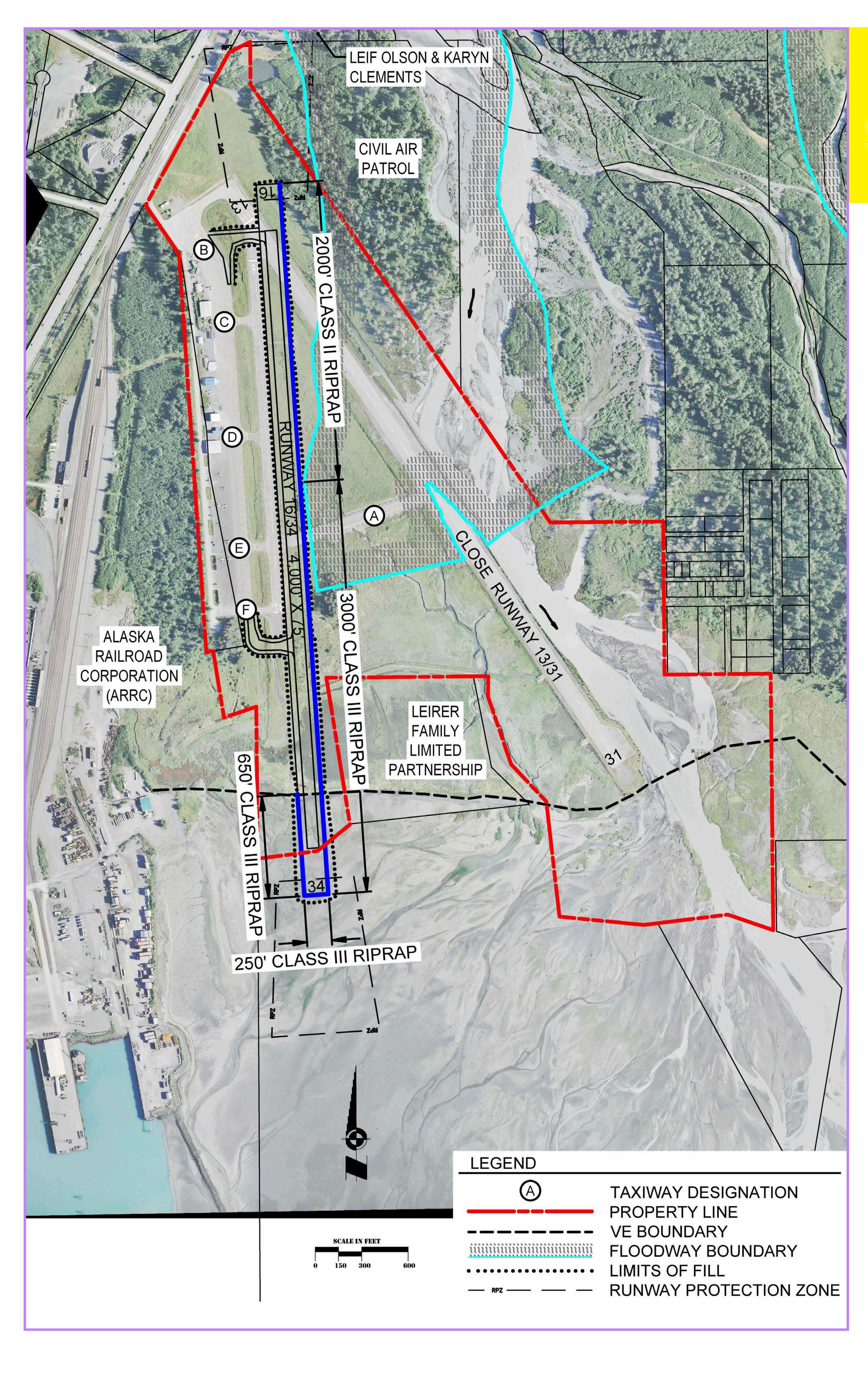
One runway (13-31) would be

The new, improved Runway 16-34 would be 949 feet shorter than the



100-Year Floodplain - Existing Conditions





Shift Existing Crosswind Runway 16-34 East & Extend by 1,711 Feet (4,000 feet x 75 feet)

- guidance.

Key Advantages

- wind direction.
- to use the apron.
- acquisition process.

Key Disadvantages

- federal funding.
- than Alternative 1.1.

ALTERNATIVE 3.0

→ Close Runway 13-31 and allow floodwater to overtop it

→ Reconstruct and raise Runway 16-34 above the 100-year flood level. Install riprap to protect the embankment.

→ Relocate Taxiway B and adjust Taxiway F to match new runway elevation. Eliminate Taxiways A, C, D, and E to comply with new FAA

Less susceptible to flood damage than Alternative 1.1, since improvements are located further away from the river threat. Is longer than Alternative 2.2, which allows for use by commuter aircraft such as the Dash-8.

Lengthens the runway that is best aligned with the predominant

Increases the runway offset from the apron to allow larger aircraft

Raises the 100-year flood level by less than 1 foot, resulting in minor additional flood impacts to river properties. Fewer properties to be acquired than Alternative 1.1, and consequently, a shorter property

Requires an alternative funding source. The additional 700 feet of runway length do not qualify for

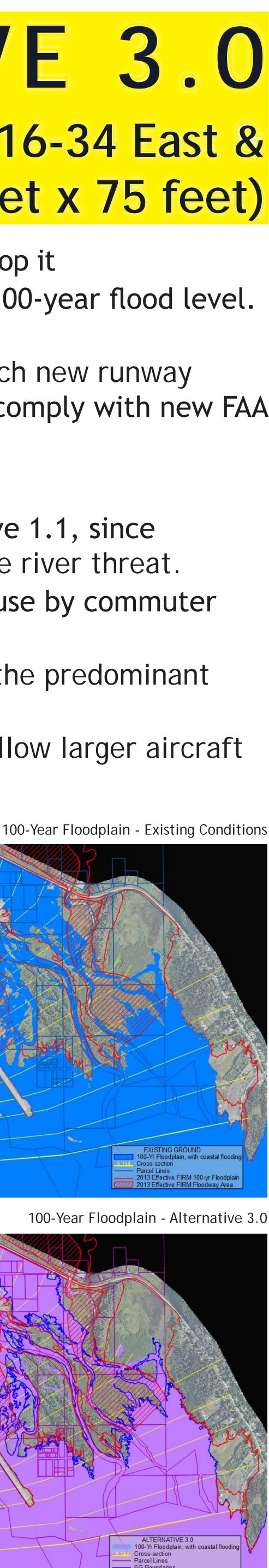
Impacts the Velocity Zone (tidelands) on the FIRM (flood) map, requiring a revision to the FIRM map.

Necessitates additional engineering to provide protection against the Resurrection Bay flood impacts.

May take longer to obtain permits than for Alternative 2.2 due to tideland impacts, but shorter time

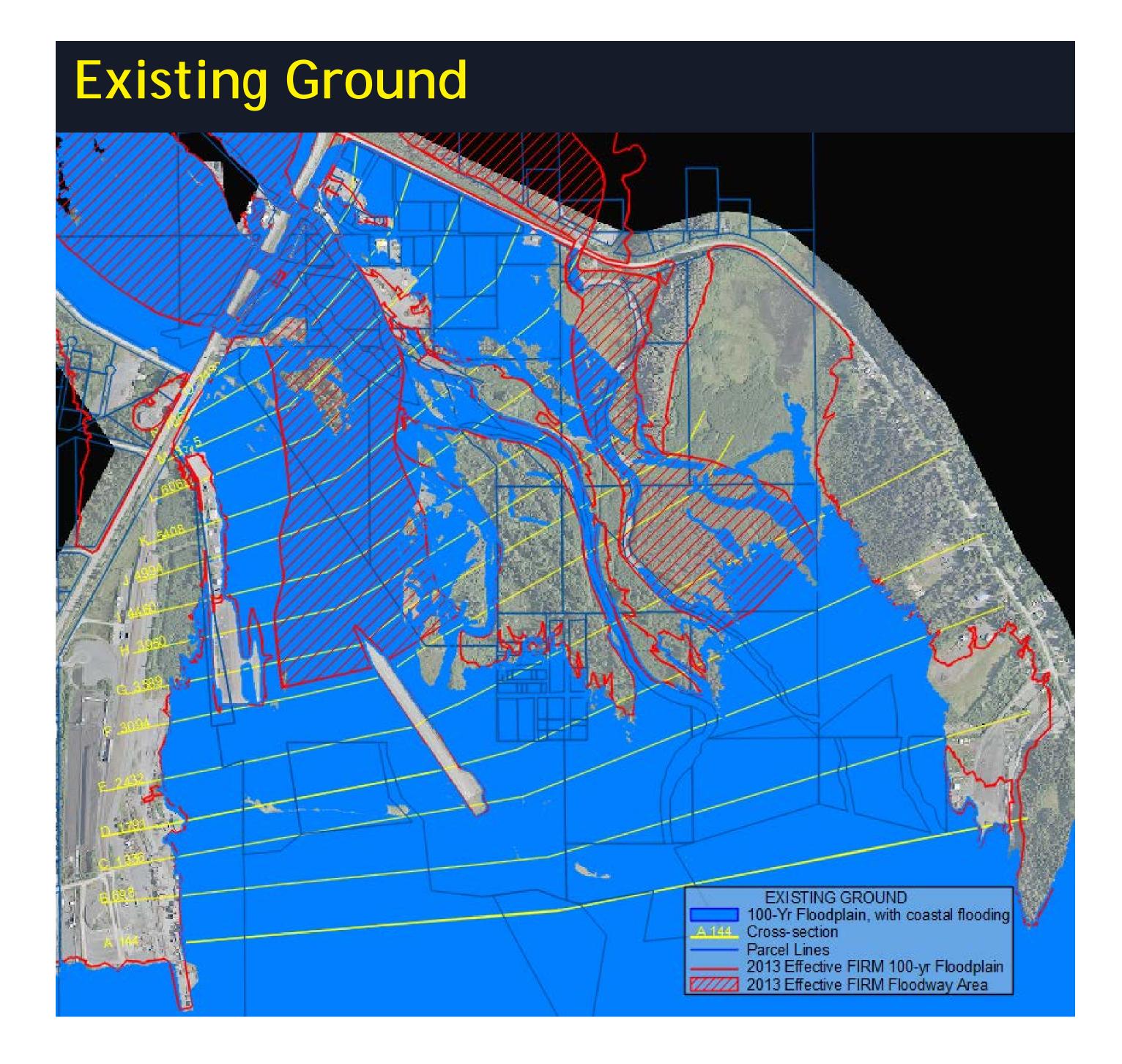


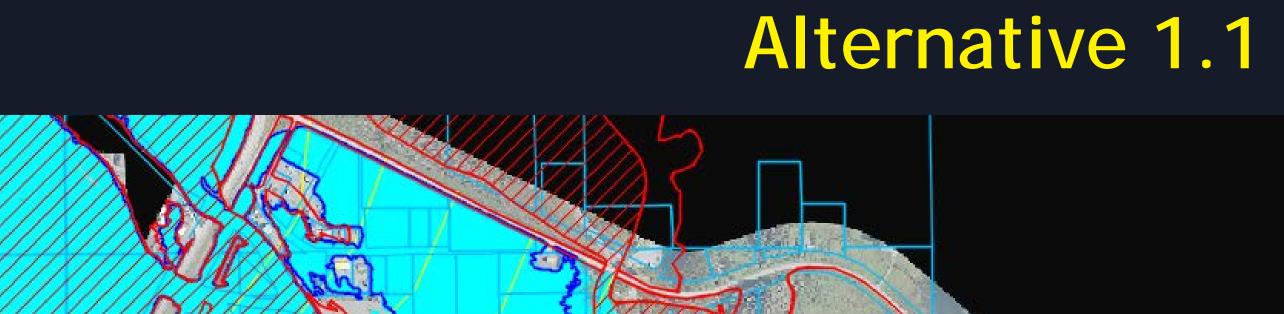
ALTERNATIVE 3.0 100-Yr Floodplain, with coast

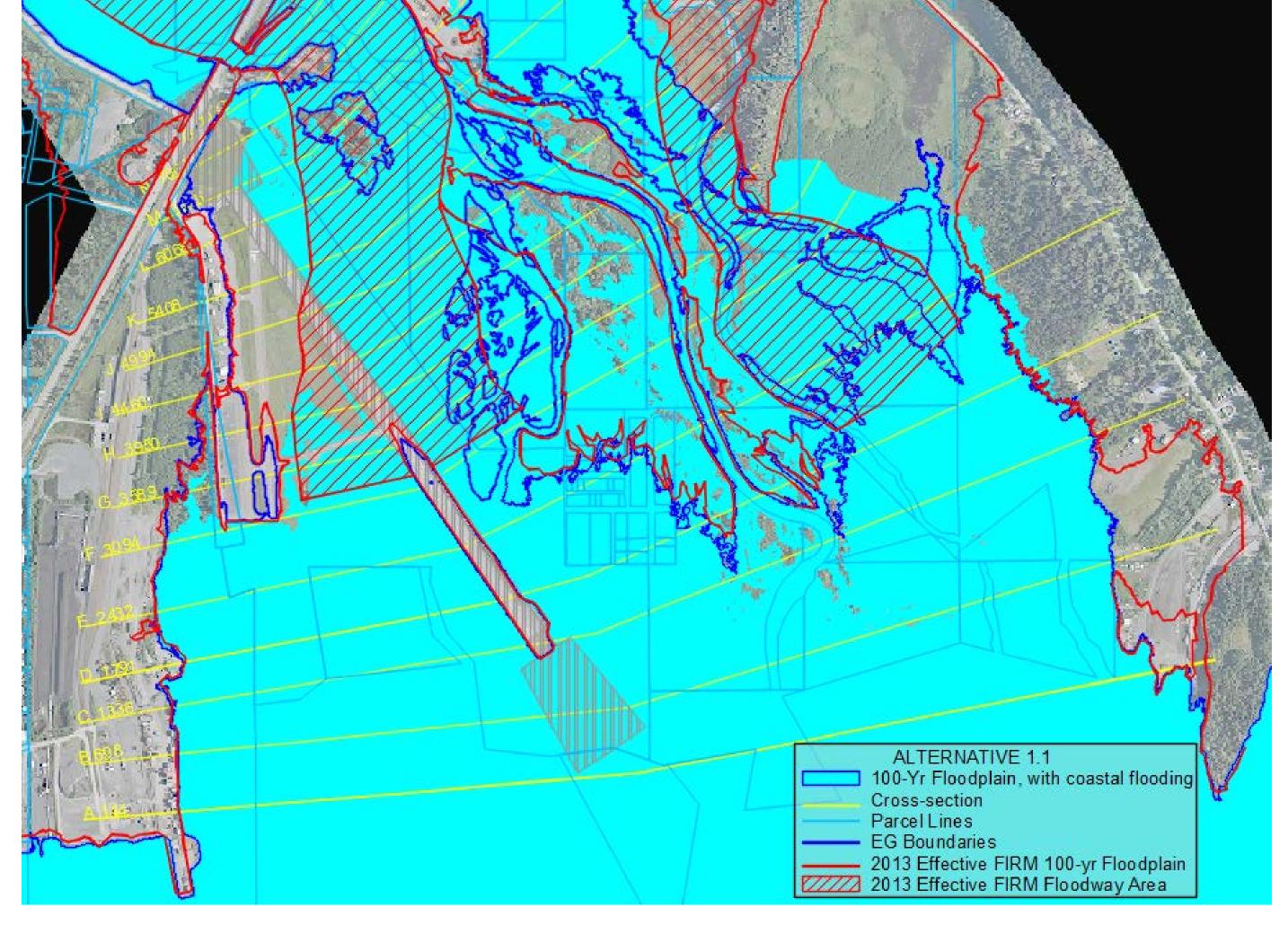


Effective FIRM 100-yr Floodpla

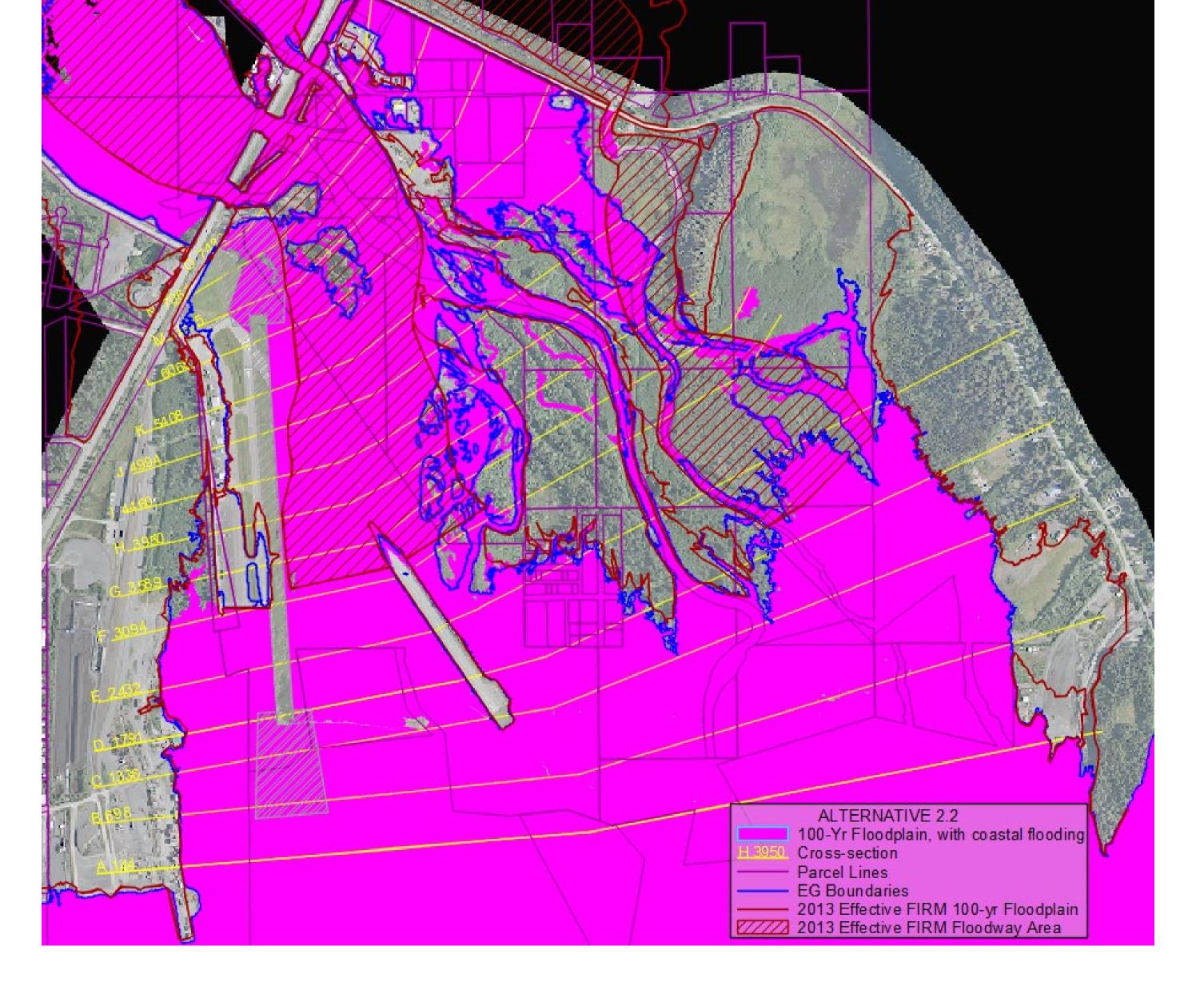
Projected Floodplain Impacts: Changes in the 100-Year Flood



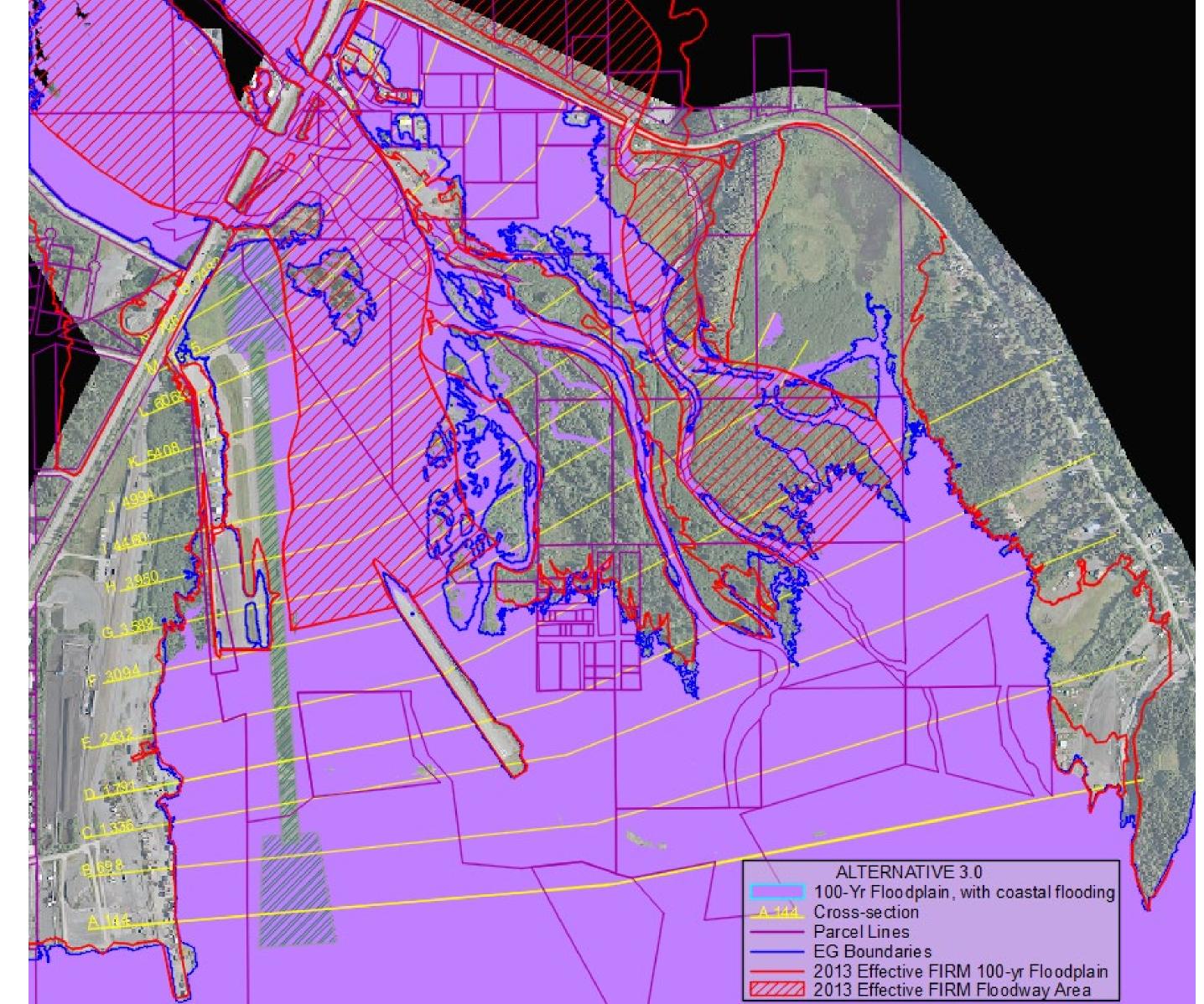




Alternative 2.2



Alternative 3.0



Understanding Possible Solutions ATTENDEE ACTIVITY

Which aspects of the project are most important to you?

Please place your YELLOW sticker in the box next to the criterion you feel is the most important and your BLUE sticker by the one you feel is next most important.

Alternative Evaluation Criteria COST

- Construction/earthwork cost
- Maintenance and operations (M&O)
- Right of way-preliminary costs only
- Eligibility for FAA funding

ABILITY TO SERVE THE COMMUNITY'S NEEDS

- Medevac
- Meets General Aviation (GA) needs
- Search and rescue
- Economic development

SAFETY, ENGINEERING, AND	
USER CONSIDERATIONS (not covered by Cost)	
 Wind coverage 	
 Airspace/Runway Protection Zone (RPZ)/ approach obstructions 	
 User function/runway reliability/level of service (LOS) 	
 Long-term stability/risks 	
 Construction considerations 	
ENVIRONMENTAL CONSIDERATIONS	
 Floodplain/floodway impacts 	
 Fish habitat impacts 	
 Wetlands impacts 	
 Endangered Species Act (ESA)/bald eagle habitat 	
 Human (socioeconomic) impacts—right-of-way 	

impacts, compatible land use, etc.