

# West Fork Upper Battle Creek Project Overview

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AEA's mission is to reduce the cost of energy in Alaska

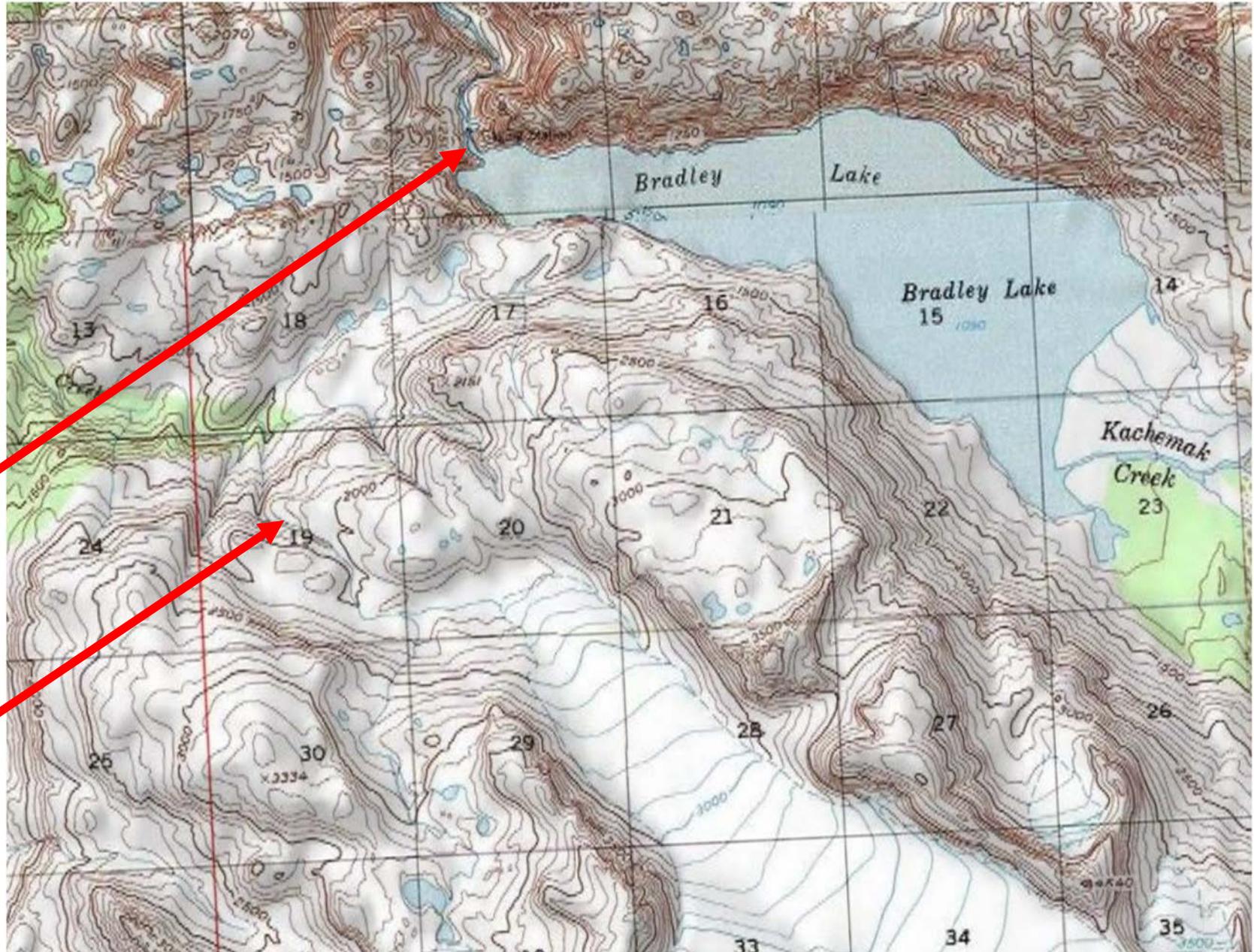
# Bradley Lake Hydroelectric Dam



# Bradley Vicinity

Existing dam

New diversion



# Energy

- Mean annual energy to Bradley 37,300 MWh
- Estimate includes about 500 MWh by sealing leakage at East Fork Battle Creek Diversion.

**~5,200**  
additional homes  
powered



# Cost Estimate

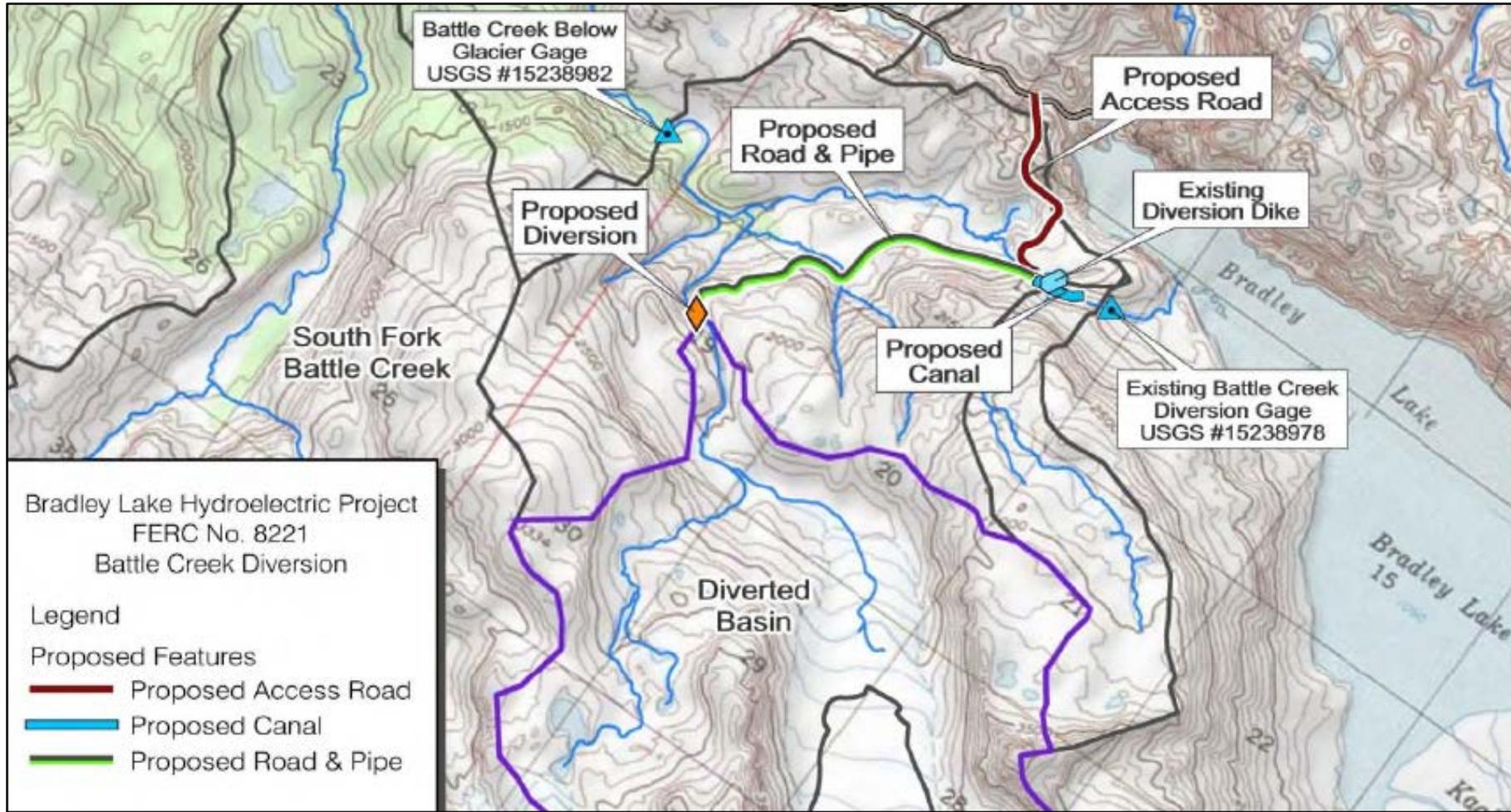
## February 2017 90% Opinion of Probable Cost

- \$41,900,000 Construction Cost (includes 15% contingency)
- \$46,400,000 Total Cost

## Cost of (30 year term, 4% finance, & O&M included)

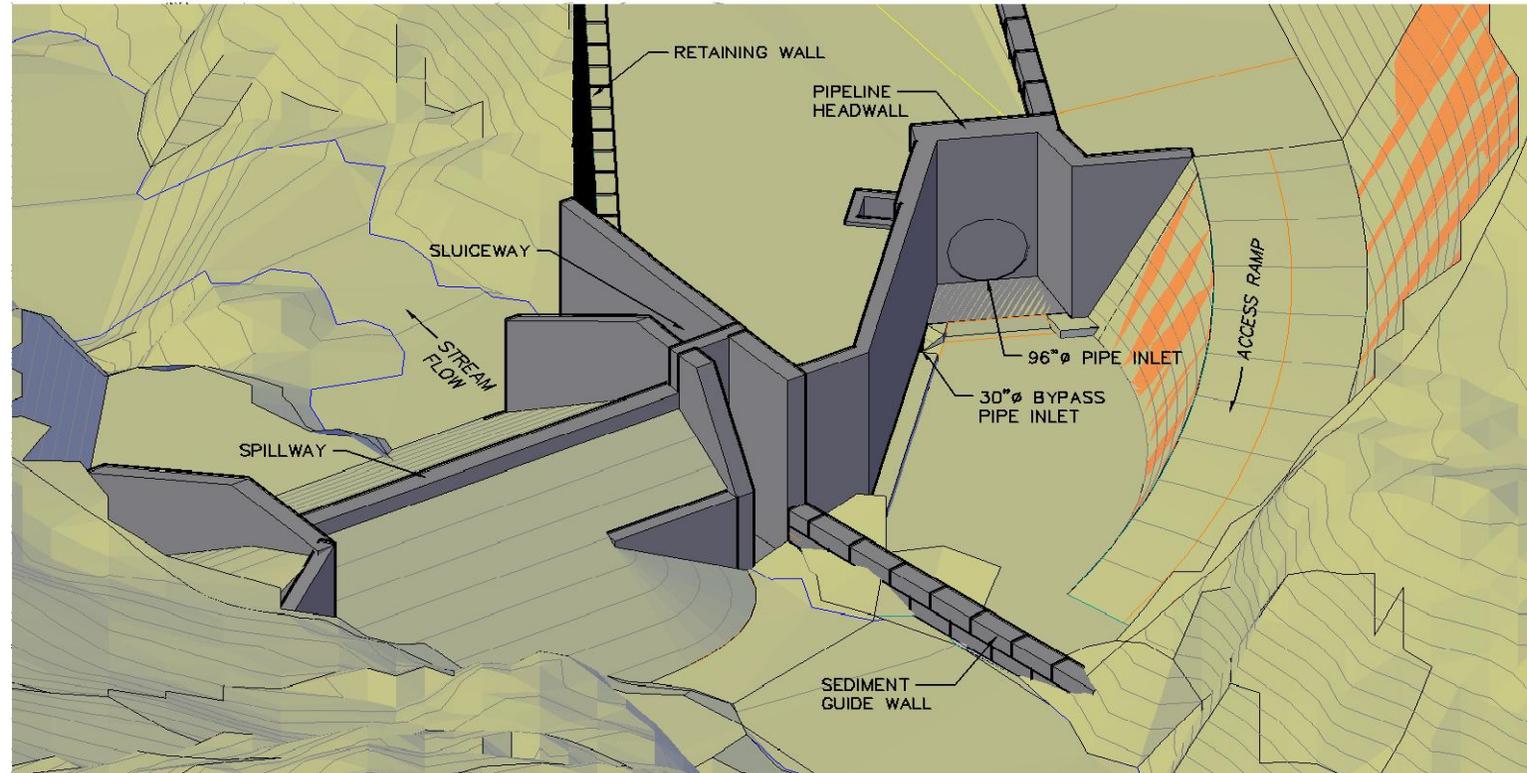
\$73.5 /MWh

# Map of Battle Creek



# Design Elements

- Diversion dam – Concrete dam 16' high and 60' wide

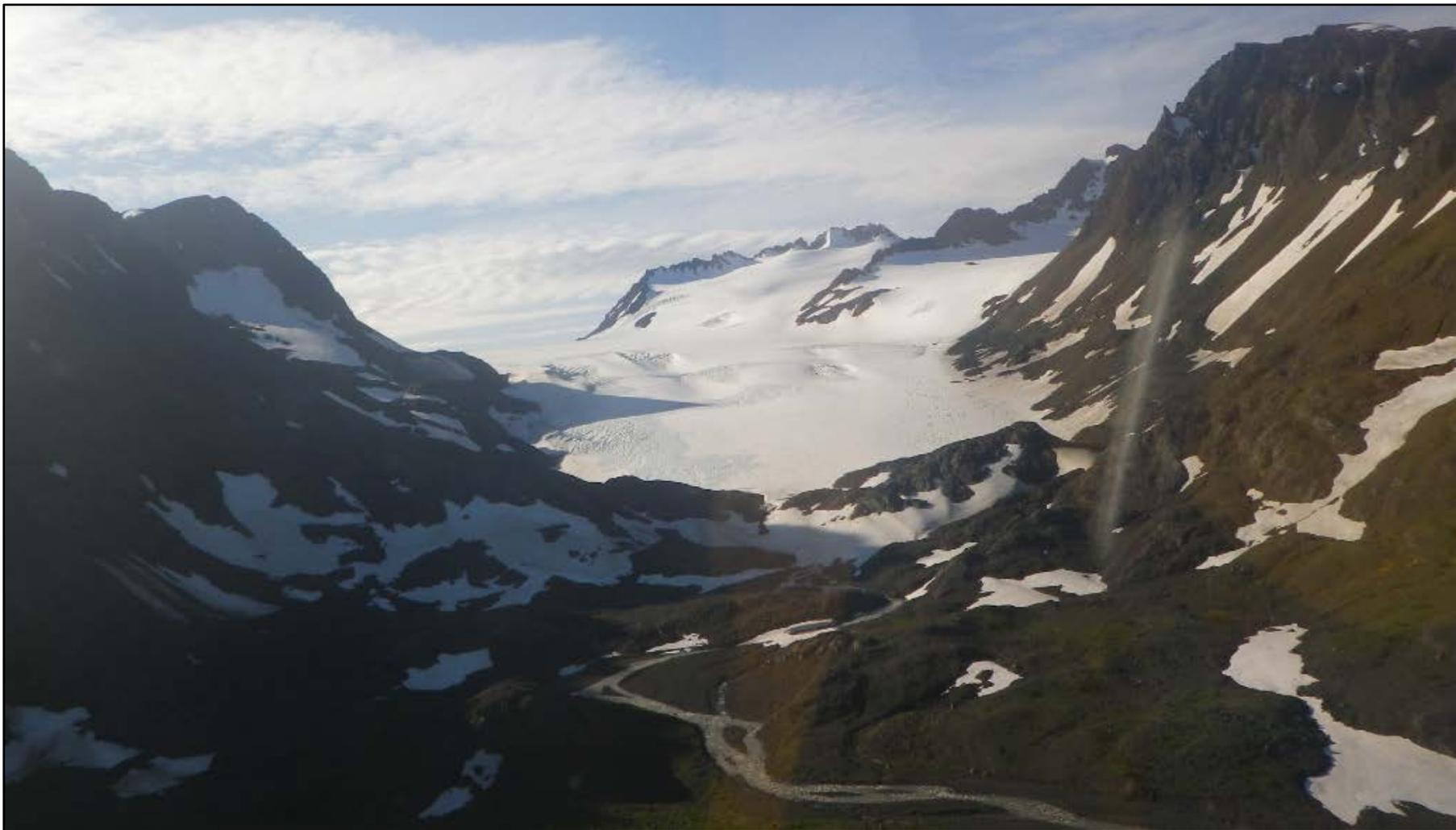


# Design Elements

- Diversion dam – Concrete dam 16' high and 60' wide
- Gates – Several gates to channel flow to Bradley Lake or existing Battle Creek channel
- Pipe – Approximately 9,100' long, HDPE 5' diameter
- Access Road – Total of 2.9 miles of road from existing Bradley Lake road to diversion



# Battle Glacier



# West Fork Upper Diversion Location



# Access Road & Pipe Route



# Access Road & Pipe Route





# Schedule

- **Spring 2015** – Submitted License Amendment
- **Summer 2015** – ADF&G 10j and USF&WS comment letters
- **Fall 2016** – Environmental Assessment & License Amendment
- **2017** – Bidding & Brushing
- **2018** – Construction Break Ground
- **2020** - Completion



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*AEA's mission: Reduce the cost of energy in Alaska.*

