



KOOTZNOOWOO, INC.
FORTRESS OF THE BEARS



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**Southeast Conference
Annual Meeting
September 18, 2019
Sitka, Alaska**



THAYER CREEK HYDRO PROJECT

Melissa M. Kookesh



- Board Chair for Kootznoowoo, Inc.
 - Elected in 2016 and re-elected in 2019
 - Athabaskan, Tlingit, and Mexican
 - Raven Dog Salmon from Central House in Angoon
 - Daughter to Lena Woods & the late Floyd Kookesh
-

THAYER CREEK HYDRO PROJECT

ANCSA



- Kootznوو, Inc. was established under terms of the Alaska Native Claims Settlement Act of 1971.
- Village corporation for the community of Angoon.
- Currently has more than 1,100 shareholders.
- Angoon is a predominately Tlingit community with around 450 residents.



THAYER CREEK HYDRO PROJECT

ANILCA



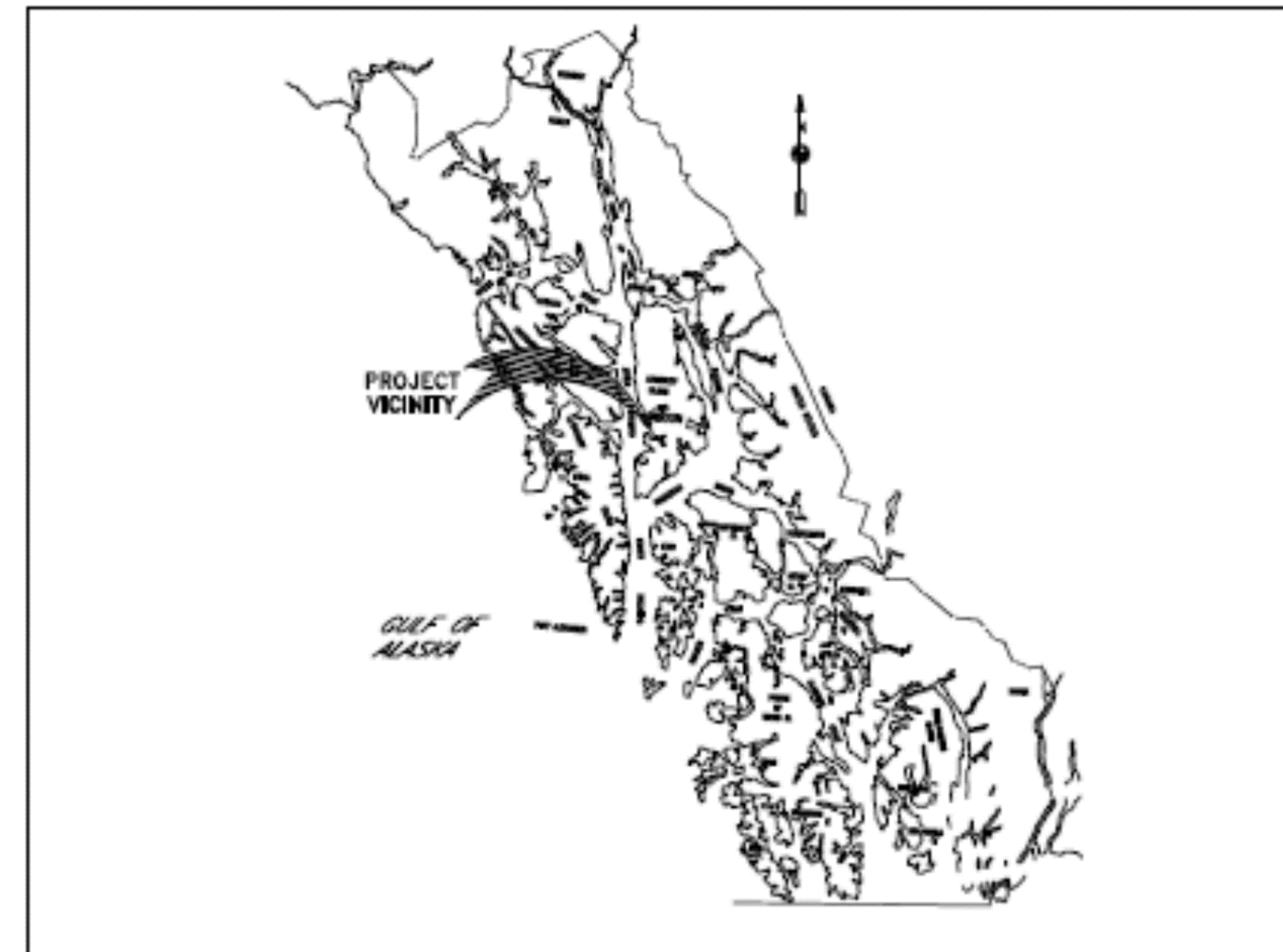
- Kootznoowoo is a for-profit corporation with business holdings in real estate, tourism, and government contracting.
- Kootznoowoo owns nearly 33,000 acres of ANCSA land entitlements.
- Alaska National Interest Lands Conservation Act (ANILCA) provided for rights to select land on Admiralty Island and POW.
- Compensatory acreage – creation of a wilderness area protecting 90% of the island.



THAYER CREEK HYDRO PROJECT ANILCA



- Under ANILCA, Kootznoowoo has the right to develop the hydropower project.
- The project area is in the lower 8,500 feet of Thayer Creek.
- All project facilities, except the underwater transmission line and related facilities in Kootznahoo Inlet, are located on National Forest System lands.
- U.S. Forest Service has provided support for the project and is working closely with Kootznoowoo as the design becomes final.



THAYER CREEK HYDRO PROJECT

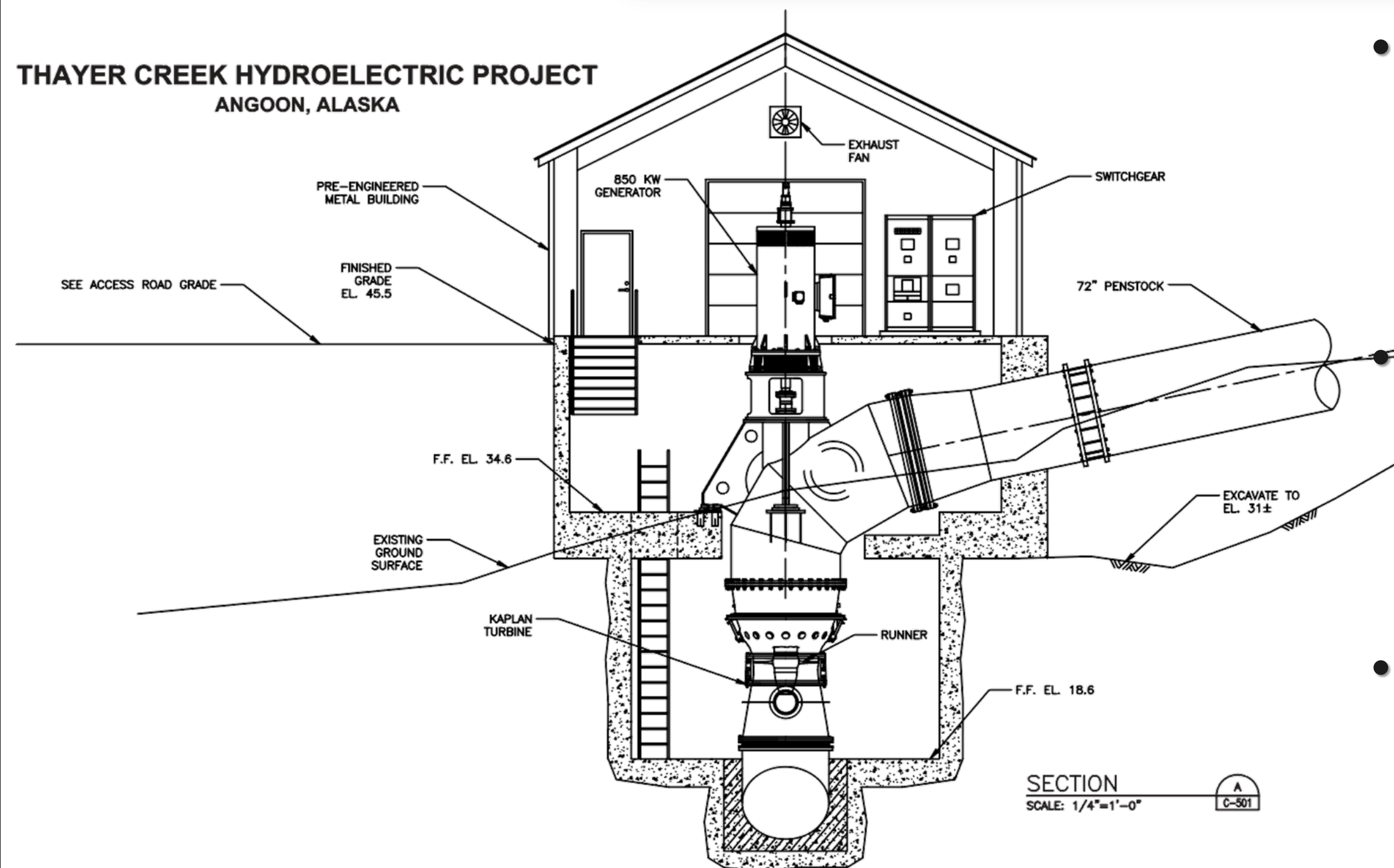
PARTNERS

Alaska Energy Authority
Angoon Community Association
Bureau of Indian Affairs
City of Angoon
Department of Energy
Inside Passage Electrical Cooperative
Southeast Conference
United States Forest Service



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THAYER CREEK HYDRO PROJECT HDR



- U.S. Forest Service, AEA, IPEC, and S.E. Conference met and were presented with findings from a site investigation and risk analysis of the project.
- Kootznoowoo will develop and coordinate construction of the project and intends to secure grant funds to pay for the cost of construction.
- To date, Kootznoowoo has invested about \$3M as well as contributed a 24-acre titled property located at the southern end.

THAYER CREEK HYDRO PROJECT

40 YEAR OVERNIGHT SUCCESS



- Fall 2018, HDR completed 96% of the taskwork associated with an Alaska Energy Authority (AEA) grant to reach 35% design level.
- Fall 2019, Kootznoowoo received both a \$1M AEA Grant and \$100,000 contribution from IPEC to reach 100% design level.
- The design is expected to be at 65% completion by December of 2019 and finished in December of 2020.
- Construction is on track for 2021.

THAYER CREEK HYDRO PROJECT PROJECT SPECS



- 850 kW hydropower plant
- 322,000 gallons fuel oil offset
- \$20.1 MM hydro capital cost
- \$4.3 MM heat pump
- 3,631 ton CO2 reduction
- 41% reduction in electric costs
- \$645,000 net energy savings



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Benefits include:

- Hydroelectric energy that will replace ALL diesel generation presently needed for Angoon.
- Hydroelectric power for commercial loads as well as electricity for heat pumps to replace the oil currently being used to meet local space heating needs.

THAYER CREEK HYDRO PROJECT



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