

RECLAMATION

Managing Water in the West

Crow Tribe Development of Hydropower at Yellowtail Afterbay

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Crow Tribe Development of Hydropower at Yellowtail Afterbay

- **Background**
- **Conceptual Site Development**
- **Tentative Project Schedule**
- **Next Steps**

Background

- **The Crow Tribe Water Rights Settlement Act provides for the Tribe's exclusive right to develop and market power generation from a small hydroelectric generating facility to be installed on the Yellowtail Afterbay Dam.**
- **Reclamation and the Tribe entered into an agreement in March of 2015 defining roles and responsibilities of each entity through the planning/design process.**
- **Crow Tribe contracted with Sorenson Engineering to assist with developing the project through construction.**
- **Reclamation and the Tribe developed a joint project management team for project development.**

Conceptual Site Development

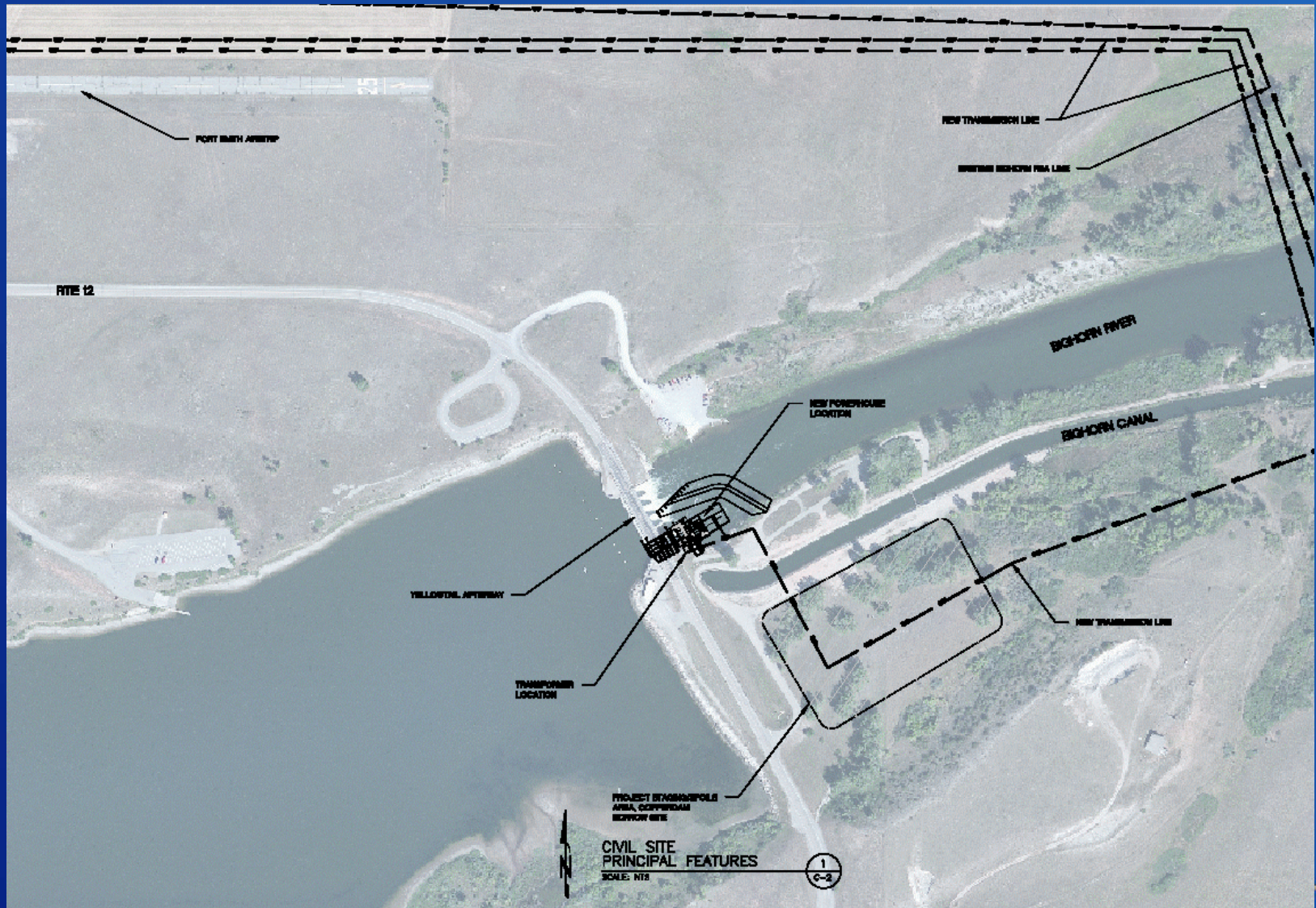
- **Current Project Proposal**
 - Development of the existing river sluiceway to accommodate new powerhouse with a 7.2 MW Generator.
 - Would eliminate the current sluiceways
 - Large cofferdam within the river to allow for winter construction.
 - Would limit releases to Radial Gates 1 through 3 during construction
 - Overhead transmission lines to the Bighorn REA substation to the northwest of the dam (tentative).
 - Key tenant of development: No changes to the quantity or timing of releases to the Bighorn River.

Conceptual Site Development

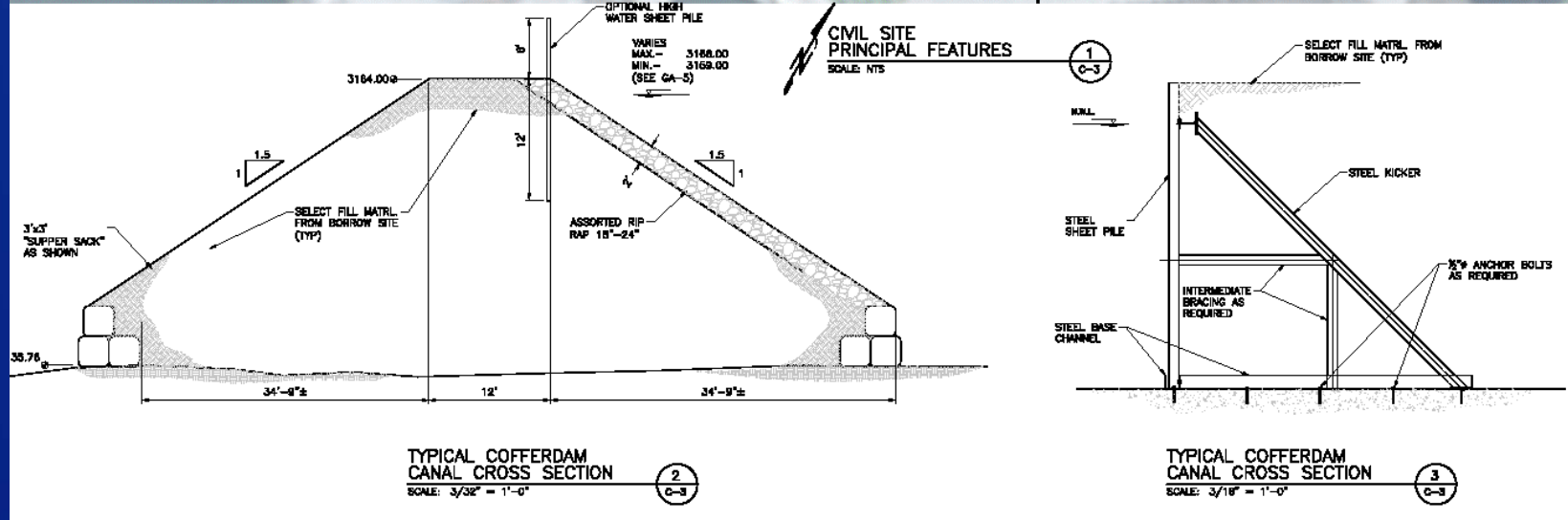
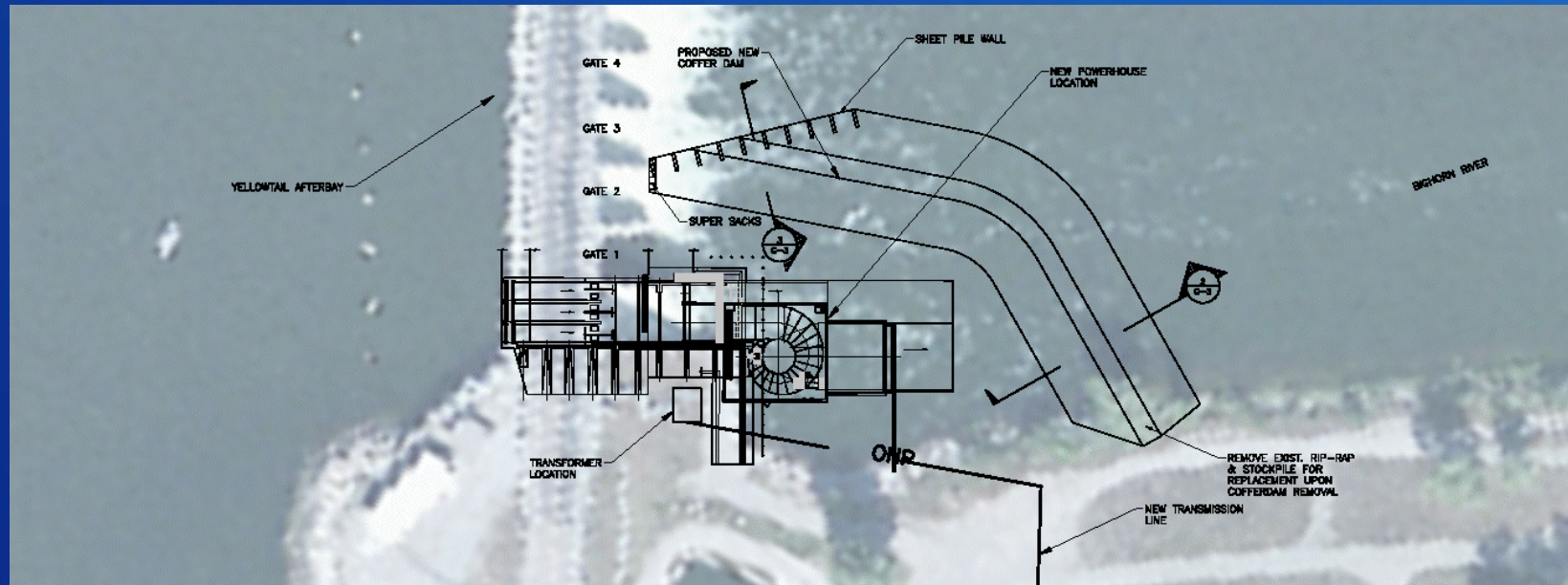


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Conceptual Site Development



Conceptual Site Development



Proposed Powerplant Operations

- Powerplant design flow capacity of 3,500 cfs.
- Flows in excess of 3,500 cfs would be released through the radial gates.
- Flows would be transferred to a newly constructed bypass gate in the event of a shutdown.
- Powerplant designed for a forebay operating range of 3175-3192.

Tentative Project Schedule

Task	Target Date
25% Design Review	June 2016 ✓
Agency Scoping Meeting	August 2016 ✓
60% Design Review	January 2017
Public Scoping Meetings	January 2017
Draft Environmental Assessment	February 2017
90% Design Review	May 2017
Final Environmental Assessment	May 2017
Design Acceptance	July 2017
Construction NTP	September 2017
Construction Complete	November 2018

Next Steps

Short term steps:

1. Review the 60 Percent Design Package
2. Plan and Schedule Public Scoping Meetings
3. Draft Environmental Assessment

Long term steps:

1. Review and Accept Designs
2. Final Environmental Assessment
3. Draft Construction Operation and Maintenance Contract
4. Construction Submittal Review

Questions

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