

Leveraging Alternative Delivery to bring Surface Water to Mountain Home Air Force Base

MHAFB, Mountain Home, Idaho
Surface Water Treatment Workshop
April 23, 2025 | Fargo North Dakota

Jacobs Challenging today.
Reinventing tomorrow.



Project Need

- MHAFB has groundwater rights
- Aquifer declining for 60 years
- Airbase usage becomes higher than natural recharge
- Surface water treatment is mission-critical



Water Source – Snake River

- Purchased by Idaho Water Resource Board for MHAFB
- Sold by Simplot Corporation in 2014
- Beneficial use deadline: May 31, 2025

Projects and Teams

- Federal Design Build (D/B) Project
- Mountain Home Team
- Pipeline to Airbase D/B Team
- Surface Water Treatment Plant D/B Team

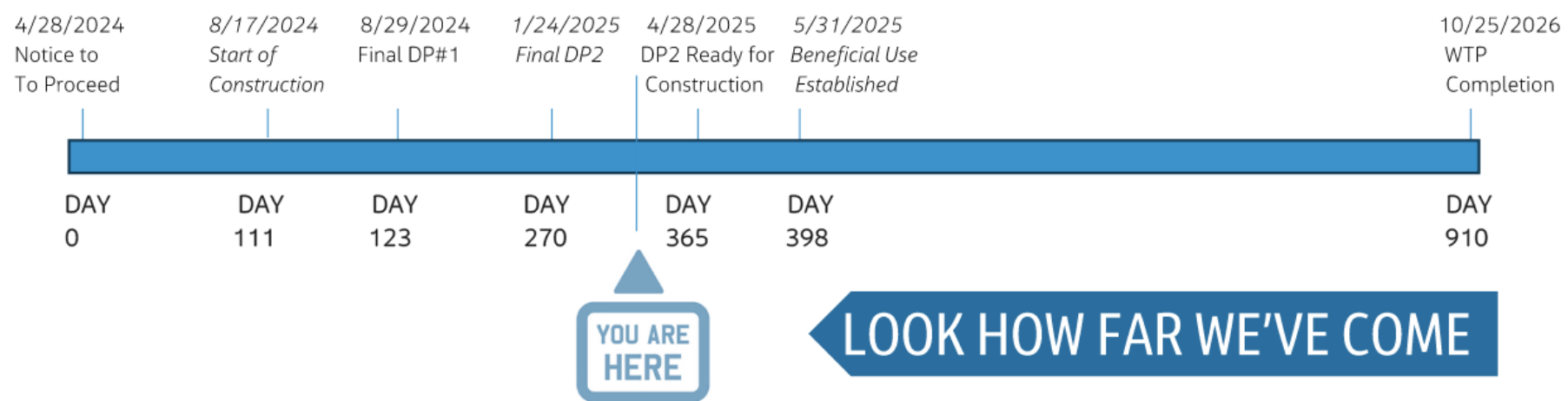


Accelerated Schedule

- Initial RFP January 2023
- Award WTP April 2024
- Beneficial use deadline: May 31, 2025



PROJECT TIMELINE

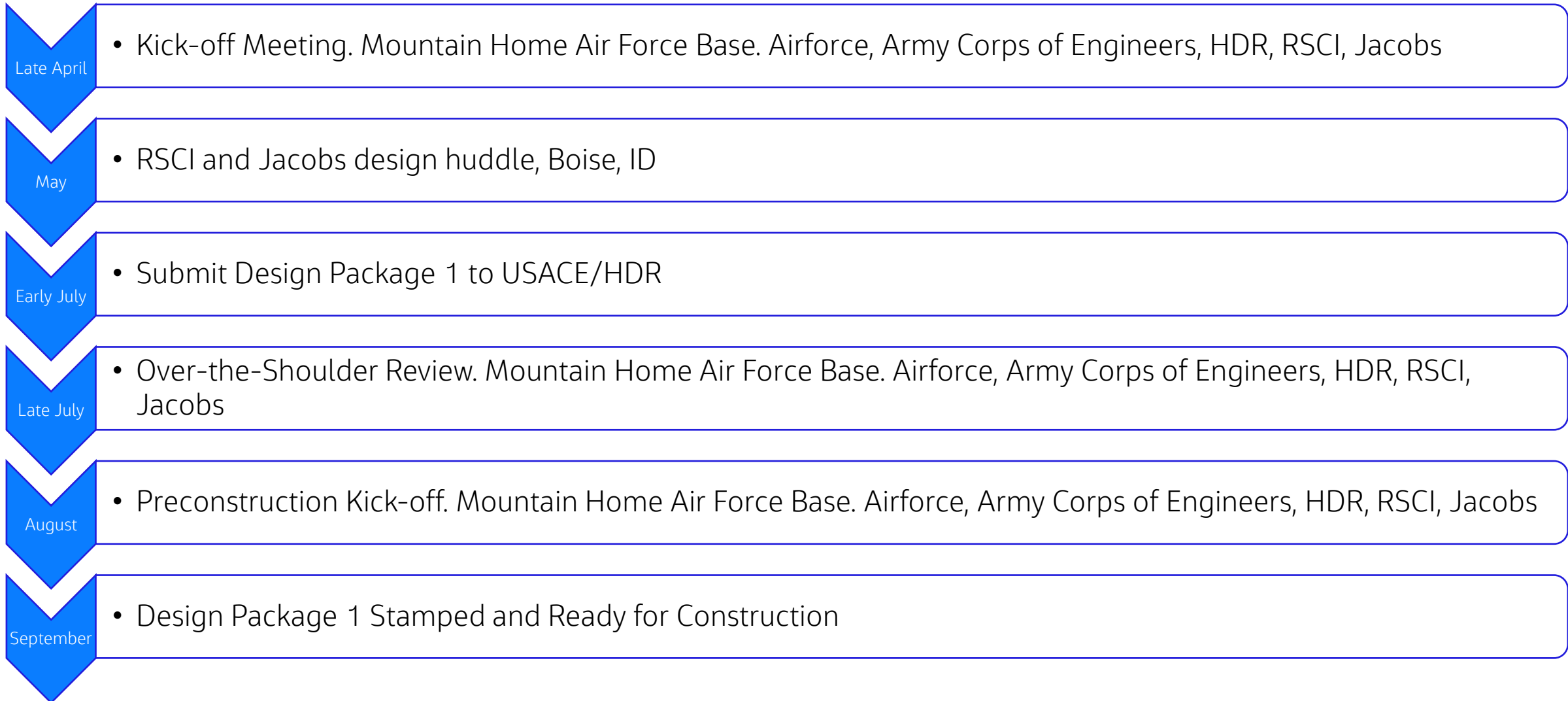


Leverage Design Build Delivery

- 2 Design Packages
- Design Huddle
- Over-the-Shoulder Review
- Site Visits
- Meetings with USACE/Airbase/HDR
- Meetings with IDEQ



Rapid Delivery: Design Package 1



Rapid Delivery: Design Package 2

Late April

- Kick-off Meeting. Mountain Home Air Force Base. Airforce, Army Corps of Engineers, HDR, RSCI, Jacobs

May

- RSCI and Jacobs team huddle, Boise, ID

September

- Submit Interim (65%) Design Package 2 to USACE/HDR

October

- Over-the-Shoulder Review. Mountain Home Air Force Base. Airforce, Army Corps of Engineers, HDR, RSCI, Jacobs

January

- Submit Design Package 2 (95%) to USACE/HDR

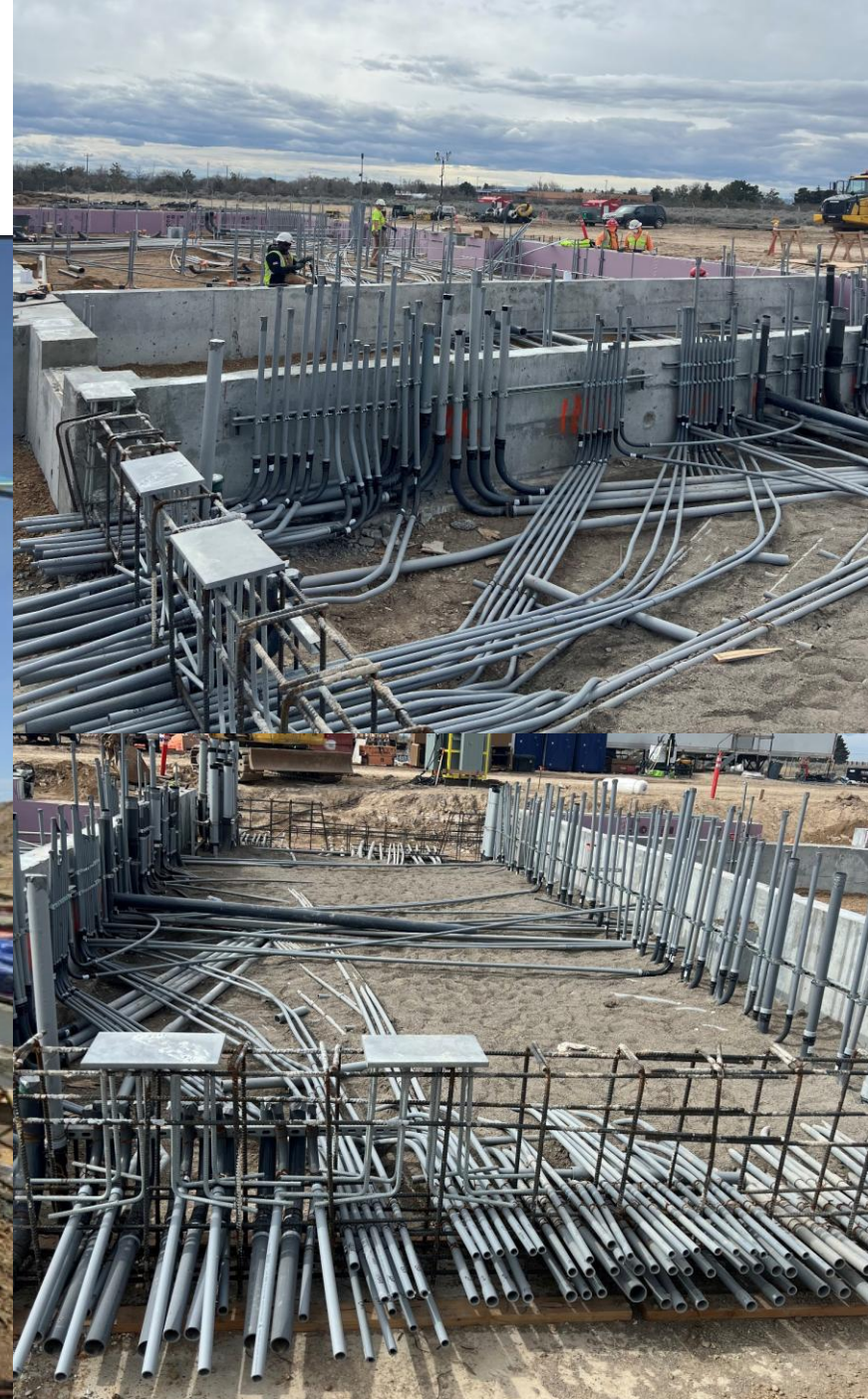
February

- Over-the-Shoulder Review. Mountain Home Air Force Base. Airforce, Army Corps of Engineers, HDR, RSCI, Jacobs

May

- Design Package 2 Stamped and Ready for Construction

Design Package 1 Construction



Unique Process Team Structure

- Divided by role, not treatment process
- Meet RFP yet Engineer Record
- Vendor submittals as Specifications



Enoch Nicholson
Process SME



Rebecca Venot
Lead Process



Meredith Quinn
Process Vendor



Christi Meyn
Treatment Engineer



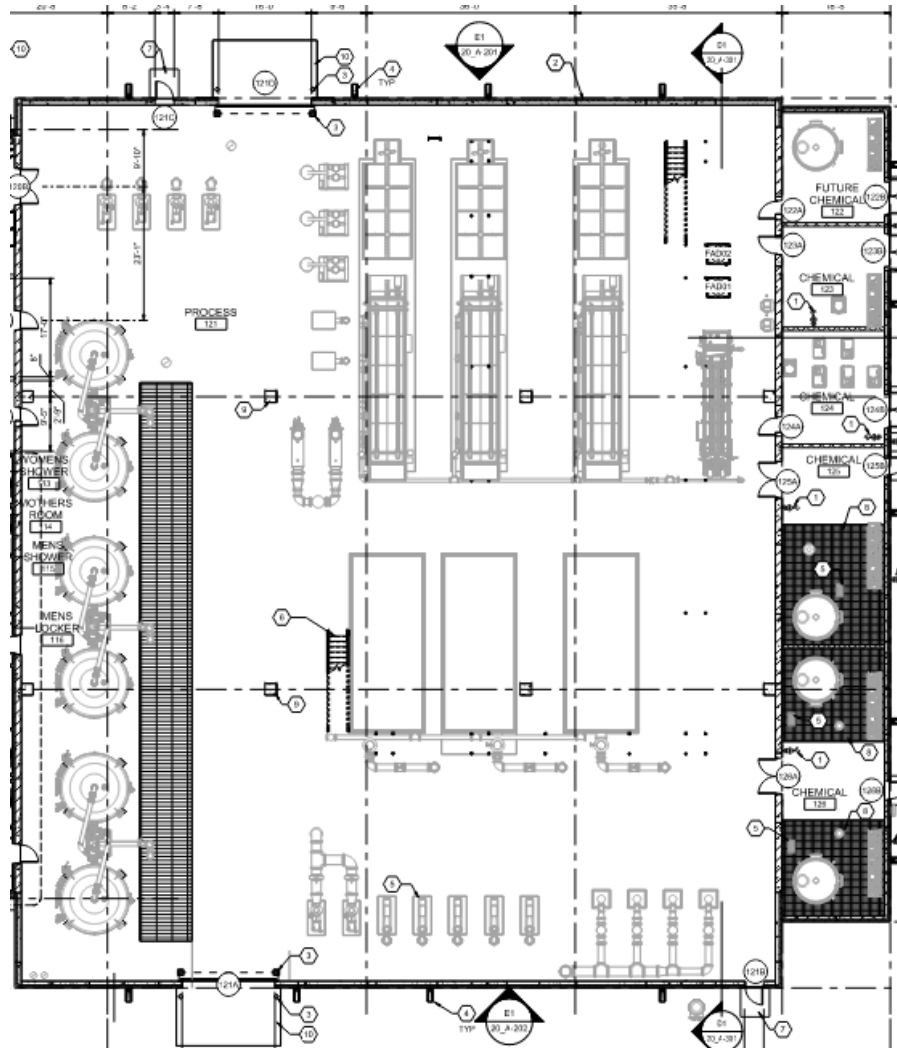
Tyler Kurtz
Chemicals and Residuals Engineer

Incorporate Vendors Early

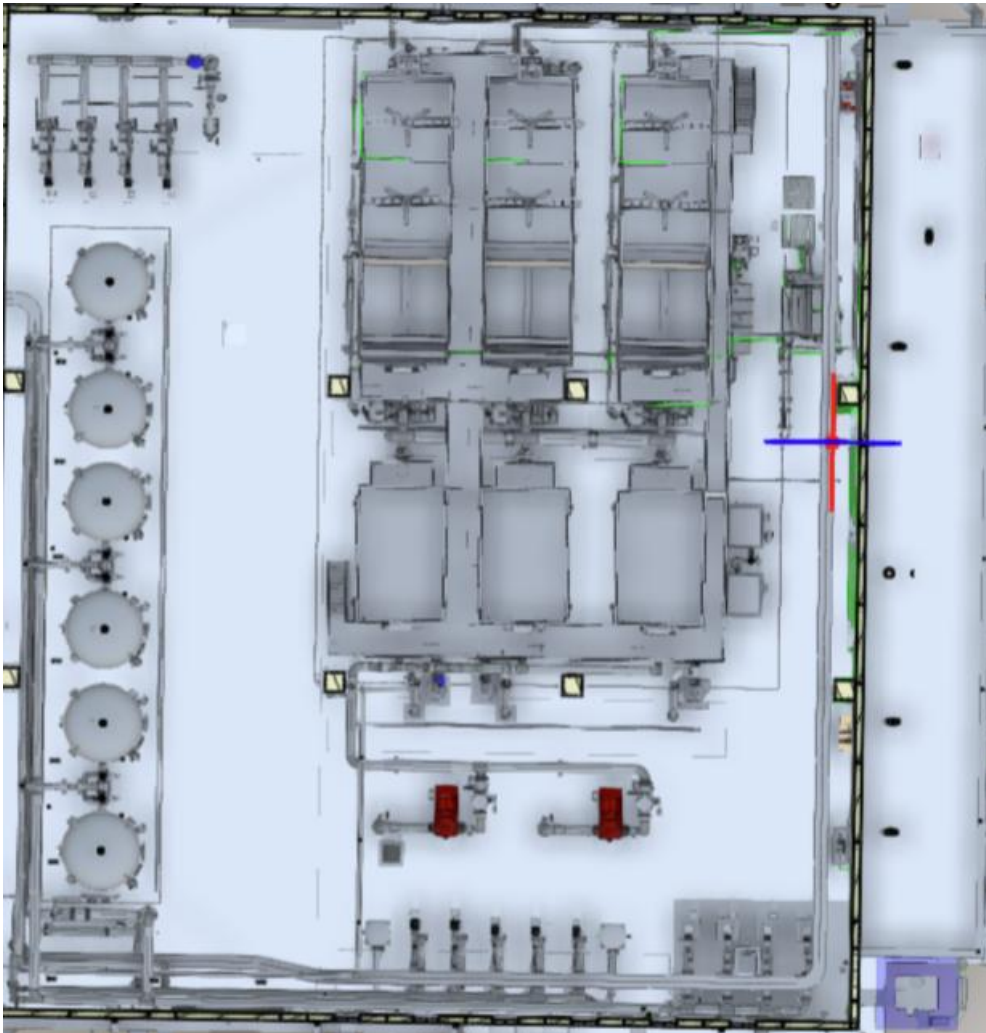
- Submittals in lieu of Specifications
- Design around packaged systems
- Begin manufacturing earlier

Water Treatment Plant

35% DESIGN



100% DESIGN



Unique Challenges

- Base access and security
- MHAFB, contractor, and vendor collaboration
- Federal project for water treatment



Questions?

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Jacobs

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