

DENVER WATER

NORTH SYSTEM RENEWAL WATER TREATMENT PLANT (NSRWTP)



NSRWTP Design Package #5 & #7 Pre-SOQ Meeting

Denver Water Board Room

Denver CO, November 17, 2016

Agenda

- Introduction
- Design Package (DP) Overview
- Next Steps

NSRWTP Project Objectives

- **Sustainability:** Achieve the highest level of sustainability certification possible in a cost-effective and feasible manner
- **Modularity:** Parallel operation/outages while plant is in service
- **Ease of Access and Maintenance:** Safe, efficient, flow of traffic, equipment access and future build-out
- **Safety:** Personnel safety during construction and long-term operations
- **Personnel:** Streamlined operations and control
- **Schedule:** Operational by 2023
- **Budget:** Accomplish project objectives within budget

North System Renewal Water Treatment Plant Site

N



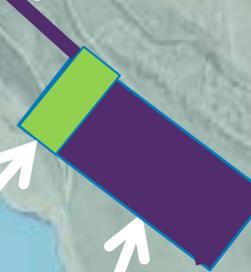
Ralston Reservoir



Proposed Jefferson Parkway



Ralston Outlet Works



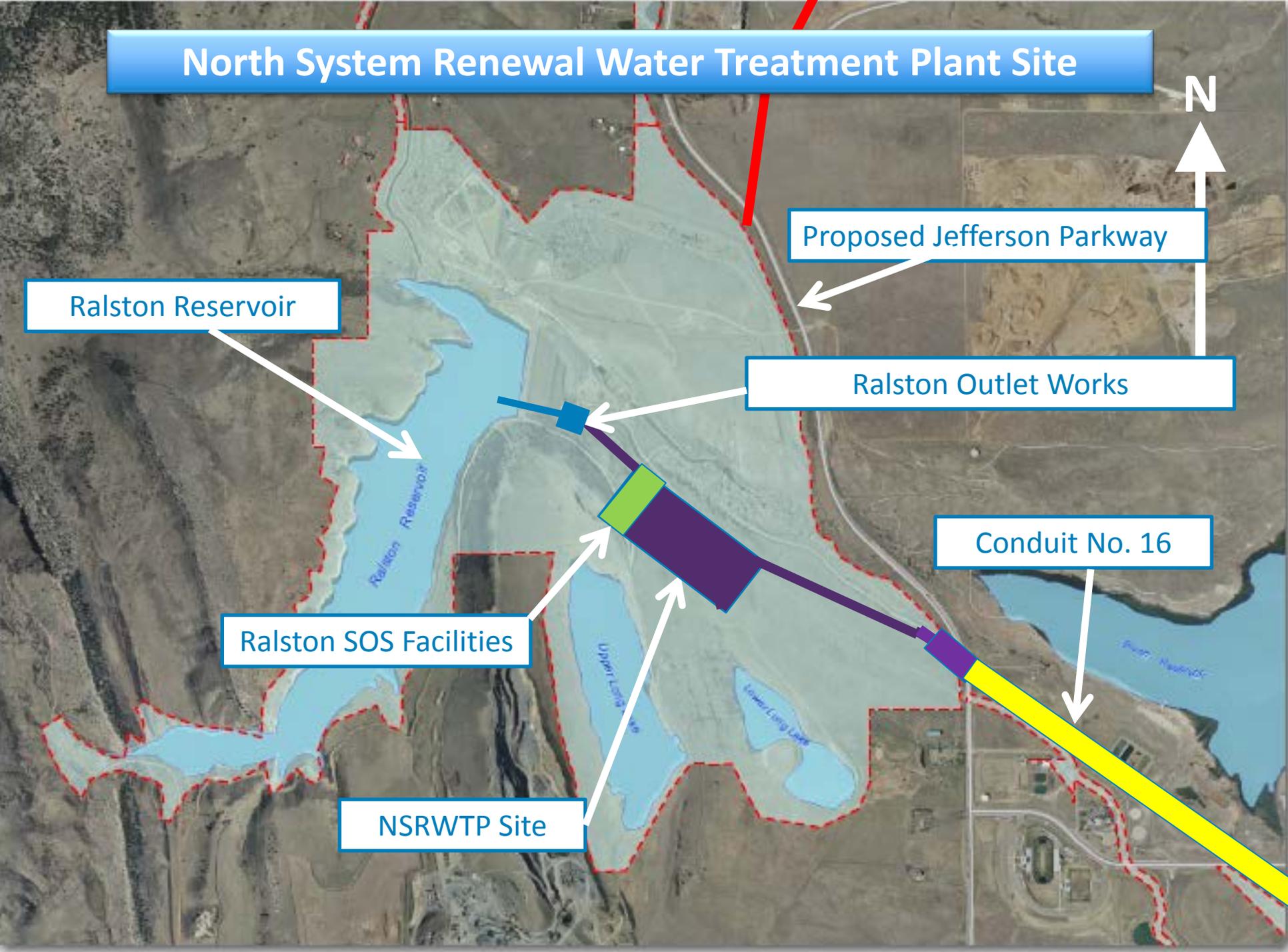
Conduit No. 16



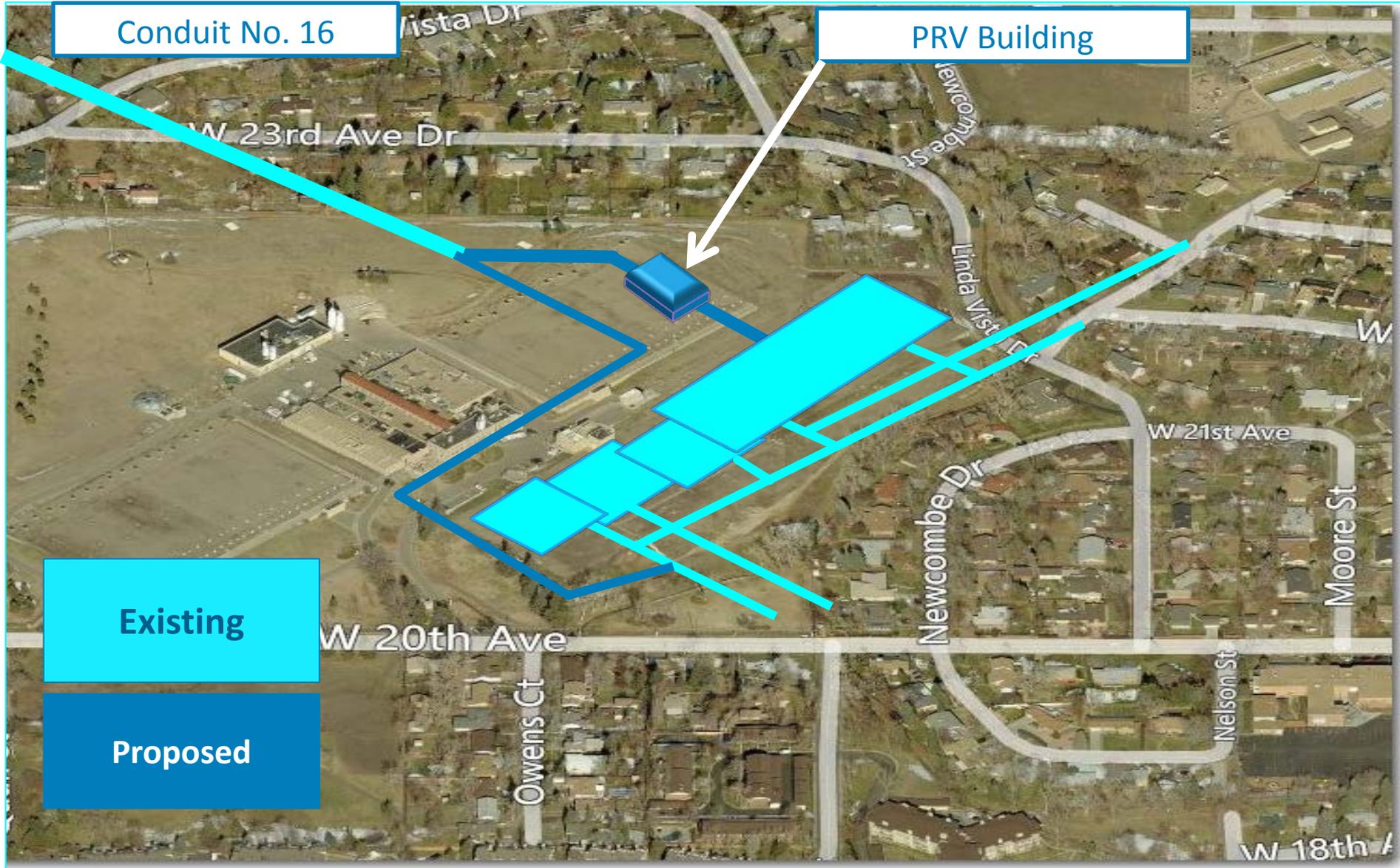
Ralston SOS Facilities



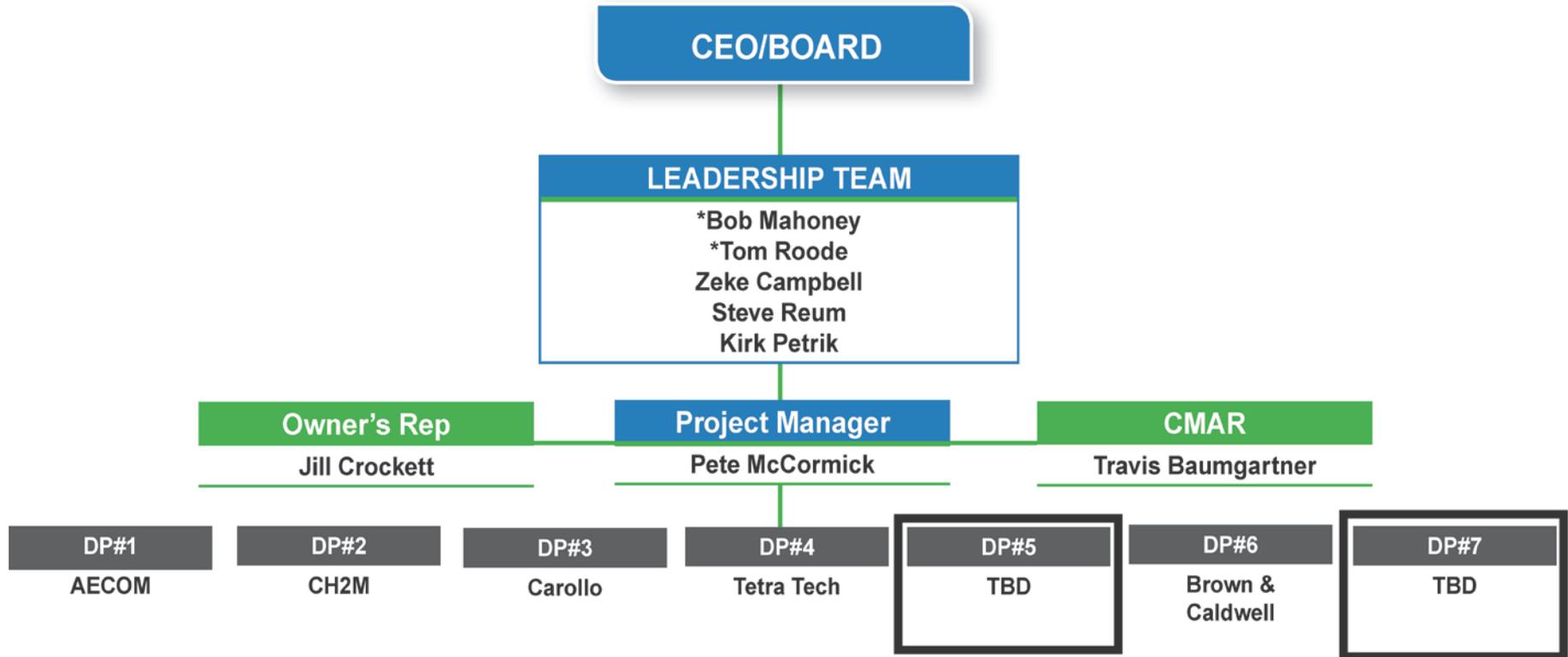
NSRWTP Site



Moffat Site 2023



NSRWTP – Table of Organization



*Co-Chairs

Design Packages

- DP#1 – Site and Civil Improvements
- DP#2 – Treatment Process Systems and Structures
- DP#3 – Electrical, Instrumentation & Control Systems
- DP#4 – Ancillary Treatment Process Systems and Structures
- **DP#5 – Architectural and Building Systems**
- DP#6 – Post-tensioned Water Storage Tanks
- **DP#7 – Moffat Facility Improvements**

NSRWTP – MWBE Design Outreach Opportunities

Design Package (DP)	Civil Eng. Services	Geotech Services	Survey (3D Base Map)	Traffic Eng. Services	Mechanical Eng. Services	Structural Design	Landscape Architectural Services	Architectural Services	Electrical I&C Services	Interior Design Services	Estimated Construction Cost of DP
DP#1 - Site & Civil Improvements	✓	✓	✓	✓			✓				\$60M
DP#2 - Treatment Process System & Structures					✓	✓					\$95M
DP#3 - Electrical, Instrumentation & Control Systems									✓		\$80M
DP#4 - Ancillary Treatment Process Systems & Structures					✓	✓					\$32M
DP#5 - Architectural & Building Systems					✓	✓		✓		✓	\$30M
DP#6 - Post-Tensioned Water Storage Tanks						✓					\$23M
DP#7 - Moffat Facility Modification	✓				✓	✓	✓			✓	\$10M
✓ Discipline-specific services included in Design Package, which may include opportunities for MWBE participation.											

DP#5 – Architectural and Building Systems

MWBE Goal: 8-12%

- Architectural Schematic Design
 - Water Treatment Plant
 - Administrative Building
 - Operations Facilities (warehouse/shop, Collection System warehouse and maintenance facilities, guard shack)
- Architectural Facades
 - Finishes and fenestrations
- HVAC
 - Mechanical, plumbing, fire protection
- Sustainability Review
 - LEED Scorecard
 - Sustainability Report (Comprehensive of all DPs)

DP#5 – Consultant Qualifications

- Consultant shall provide a minimum of three references that demonstrate performance on past projects of similar scope
- Proposed project personnel shall be tied to the project references
- The project manager must be located in the Denver metropolitan area

DP#5 – Personnel Qualifications

- Project Manager
- Lead Architect
- Lead Structural Engineer
- Lead Mechanical Engineer
- Startup and Commissioning Coordinator
 - Familiar with startup of buildings and HVAC systems of similar scope or size
- Specifications Coordinator
 - Administrative role, oversight of document formatting
- Revit Lead Coordinator
 - Responsible for monitoring externally referenced files used by multiple DP consultants

DP#7 – Moffat Facility Improvements

MWBE Goal: 5-10%

- Phasing of design and construction to mitigate impacts to the NSRWTP startup
- Maintenance of operations at the Moffat WTP until the NSRWTP is fully commissioned
- Safety of Moffat WTP staff during construction of modifications and decommissioning activities at the Moffat WTP
- Minimizing impacts to neighboring communities during construction at the Moffat WTP

DP#7 – Consultant Qualifications

- Consultant shall demonstrate that the firm and proposed team have the necessary experience to design the modifications and decommission the Moffat WTP
- Proposed project personnel shall be tied to the project references
- The project manager must be located in the Denver metropolitan area

DP#7 – Personnel Qualifications

- Project Manager
- Decommissioning/Startup & Commissioning Coordinator
- Site/Civil Engineer
- Lead Mechanical Engineer
- Lead Pipeline/Hydraulics Engineer
- Lead Electrical, Instrumentation, & Control (EI&C) Engineer
- Lead Structural Engineer
- Lead Architect
- Specifications Coordinator
 - Administrative role, oversight of document formatting
- AutoCAD Lead Coordinator
 - Responsible for monitoring externally referenced files used by multiple DP consultants

SOQ Requirements

- SOQ package shall include:
 - Cover Letter*
 - Firm background information
 - Proposed Project Organizational
 - Anticipated Minority and Women-Owned Business Enterprise (MWBE) and Small Business Enterprise (SBE) firm involvement
 - Three project references*
 - Proposed staff resumes*

* Refer to the Request for SOQ for page limits

Next Steps

- Schedule for SOQs:
 - Request for Qualifications advertised through www.denverwater.org: November 10, 2016
 - Pre-SOQ Meeting: November 17, 2016, 8:30 am
 - SOQ Due: December 14, 2016, 11:00 am
- Schedule for Proposals:
 - Request for Proposals sent to short-listed Consultants: January 10, 2017
 - Proposals Due: February 7, 2017
 - Selected Consultant Recommendation to the Board: March 22, 2017

Project Schedule

NTP Project Delivery Tasks		
Major Tasks	Schedule	Status
Task 1: Mobilization	4/2016 - 7/2016	Complete
Task 2: Design Services Procurement	5/2016 - 3/2017	In Progress
Task 3: Preliminary Design	8/2016 - 3/2017	In Progress
Task 4: Final Design	3/2017 - 2021	TBD
Task 5: Construction	2018 - 2023	TBD
Task 6: Close-Out		



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<http://www.denverwater.org/DoingBusinesswithUs/business-opportunities/>