

AGENDA

Denver Board of Water Commissioners

Video Conference: <http://zoom.us/join> Meeting ID: 978 5356 3924
Passcode: 144553

Dial - 16699006833

Wednesday, August 12, 2020 9:00 a.m.

I. INTRODUCTORY BUSINESS

A. Call to Order and Determination of Quorum

B. Public Comment and Communications

At this point in the agenda, the Board may allow members of the public to address the Board on any item of interest within the jurisdiction of the Board, and not on the agenda for action. Speakers wishing to address a specific Action Item will be invited to address the Board when the item is being considered. Three minutes are allowed for each person unless the President determines otherwise.

1. Distributor Communications
2. Citizen Advisory Committee Communications

C. Ceremonies, Awards and Introductions

II. ACTION ITEMS

A. Consent Items

Items listed below are considered routine and may be enacted by one motion and vote. If any Board member desires discussion beyond explanatory questions, or corrections to the Minutes, the President may order that item to be considered in a separate motion and vote.

1. Minutes from July 8, 2020
2. Minutes from July 22, 2020
3. Vault Modifications 2020-2021 – Contract 504151
4. 2020-2021 Cathodic Protection Improvements – Contract 504344

- | | | |
|---|-------------|------------|
| B. Individual Approval Items | Jim Light | 5 minutes |
| 1. Conduit 16 East Segment | | |
| a. Eleventh Amendment for
Conduit No. 16 Replacement
and Conduit No. 22
Abandonment – Contract
500861 | | |
| b. First Amendment Conduit No.
16 East Segment - Phase II -
Contract 503045 | | |
| 2. Ralston Dam Upstream Control
Reservoir Project | Jared Heath | 10 minutes |
| a. Purchase of Knife Gate Valves
and a Hydraulic Power Unit -
Contract 10342 | | |

III. POLICY MATTERS

- | | | |
|--------------------------------------|-----------------|------------|
| A. 2020 Q2 Performance Report | Stephanie Abram | 30 minutes |
|--------------------------------------|-----------------|------------|

IV. EXECUTIVE UPDATE

- A. CEO Update
- B. CFO Update
- C. Operations Update

V. BRIEFING PAPERS & REPORTS

- A. Briefing Paper
- B. Report

VI. ADJOURNMENT

VIII. EXECUTIVE SESSION

The Board may adjourn the regular meeting and reconvene in executive session on topics authorized by D.R.M.C Sec. 2-34.

A. Confidential Report

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 12, 2020

Board Item: II-A-3

Vault Modifications 2020-2021 Contract 504151

Action by Consent

Individual Action

Purpose and Background:

The Vault Modifications Program is an annual program to modify, repair, replace, and construct new vaults in Denver Water's distribution system. The vault sites included in this project have been selected based on condition assessment, their importance to the system, and the ability to schedule a conduit outage for the work to take place. The current project consists of providing the labor, materials, and equipment for the following two locations:

- East 56th Avenue and Washington Street – Rehabilitation of the Conduit No. 81 Fill Vault and the Conduit No. 94 In-line Vault.
- East Oxford Drive and East Quincy Avenue – Relocation of a pressure regulating valve vault.

Budget and Schedule:

The total amount of this contract is \$5,730,500 and the term of the contract is August 12, 2020 through July 2, 2021. Funds for this contract will come from the 2020 budget for Vault Modifications 2020-2021 business unit, which has sufficient funds to pay the \$1,600,000 estimated to be needed in 2020. The remaining \$4,130,500 of this contract will be budgeted in the year 2021.

Selection of Business Partner:

Denver Water solicited bids from four general contractors on the prequalified contractors list under the Civil Vaults discipline. This contract went through a restricted bid process using invitations to bid on the QuestCDN platform. On July 21, 2020, bids were received from three general contractors. Stanek Constructors, Inc. was selected based on the lowest cost bid.

S/MWBE Information:

The minority and women-owned business enterprise goal established for this project is 5% participation. Stanek Constructors Inc. has proposed 5.2% participation.

Recommendation:

It is recommended that the Board approve Contract 504151 with Stanek Constructors, Inc. for the Vault Modifications 2020-2021 Program for the contract period August 12, 2020 through July 2, 2021 for a total contract amount not to exceed \$5,730,500.

Approvals:

- | | |
|---|--|
| <input checked="" type="checkbox"/> James S. Lochhead, CEO/Manager | <input type="checkbox"/> Brian D. Good, Chief Administrative Officer |
| <input type="checkbox"/> Julie Anderson, Chief of Staff | <input type="checkbox"/> Mike King, Chief External Affairs Officer |
| <input type="checkbox"/> Jessica R. Brody, General Counsel | <input checked="" type="checkbox"/> Robert J. Mahoney, Chief Engineering Officer |
| <input checked="" type="checkbox"/> Angela C. Bricmont, Chief Financial Officer | <input type="checkbox"/> Thomas J. Roode, Chief Operations Office |

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DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 12, 2020

Board Item: II-A-4

2020-2021 Cathodic Protection Improvements Contract 504344

Action by Consent

Individual Action

Purpose and Background:

Cathodic protection is a technology utilized to mitigate corrosion on metallic pipelines and extend the serviceable life, while also reducing leaks and maintenance costs. Projects are selected based on a prioritization system using metrics including soil corrosivity data, cathodic protection measurements, and test station monitoring capabilities. These metrics on existing cathodic protection systems at Chatfield and Cherry Hills Facilities, as well as Conduit Nos. 10, 109, 115, 124, and 138 have shown that pipelines are not receiving sufficient cathodic protection and that the systems require improvements to provide adequate corrosion protection. The scope of work for this project includes installation of test stations and anodes on steel and ductile iron pipelines to improve monitoring and corrosion protection. Additionally, electrical isolation sets will be installed to ensure cathodic protection is functional and confined to designed locations.

Budget and Schedule:

The total amount of this contract is \$2,042,600 and the term of the contract is August 12, 2020 through May 21, 2021. Funds for this contract will come from the 2020 budget for Conduit 115 Corrosion Protection, Chatfield, and Cherry Creek Hills Facilities Cathodic Protection Improvements, and Conduits 10, 109, 116, 124, and 138 Corrosion Protection business units, which have sufficient funds to pay the \$751,275 estimated to be needed in 2020. The remaining \$1,291,325 will be budgeted in year 2021.

Selection of Business Partner:

Denver Water solicited bids from five general contractors listed on the prequalified contractor list. The contract went through a restricted bid process using invitations to bid on the QuestCDN platform. On July 21, 2020, proposals were received from three general contractors. Kantex Industries, Inc. was selected based on the lowest cost bid.

S/MWBE Information:

The minority and women-owned business enterprise goal established for this construction project is 6% participation. Kantex Industries, Inc. has proposed 8.8% participation.

Recommendation:

It is recommended that the Board approve Contract 504344 with Kantex Industries, Inc. for the 2020-2021 Cathodic Protection Improvements project for the contract period August 12, 2020 through May 21, 2021 for a total contract amount not to exceed \$2,042,600.

Approvals:

- | | |
|---|--|
| <input checked="" type="checkbox"/> James S. Lochhead, CEO/Manager | <input type="checkbox"/> Brian D. Good, Chief Administrative Officer |
| <input type="checkbox"/> Julie Anderson, Chief of Staff | <input type="checkbox"/> Mike King, Chief External Affairs Officer |
| <input type="checkbox"/> Jessica R. Brody, General Counsel | <input checked="" type="checkbox"/> Robert J. Mahoney, Chief Engineering Officer |
| <input checked="" type="checkbox"/> Angela C. Bricmont, Chief Financial Officer | <input type="checkbox"/> Thomas J. Roode, Chief Operations Officer |

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DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 12, 2020

Board Item: II-B-1-a

Eleventh Amendment for Conduit No. 16 Replacement and Conduit No. 22 Abandonment Contract 500861 (formerly 14978A)

Action by Consent

Individual Action

Purpose and Background:

The Conduit No. 16 Project will replace 8.5 miles of the existing 42-inch Conduit No. 16 pipeline with a 66-inch diameter treated water pipeline. The existing conduit currently conveys raw water from Ralston Reservoir to the Moffat Water Treatment Plant and was installed in 1937. In the past several years the conduit has required repairs for joint leaks and internal inspections have revealed extensive cracking. The new Conduit No. 16 will deliver treated water from the future Northwater Treatment Plant at Ralston Reservoir to the Moffat Treatment Plant. The entire project is being delivered in four bid packages: Tunnels Installations, West, Central, and East Segment – Phases I and II. The Tunnel Installations and the West Segment packages are complete, and the Central Segment is currently under construction. The East Segment – Phase I, consisted of installation of an 84-inch steel casing pipe at West 32nd Avenue and Ward Road, and was recently completed by Garney Companies, Inc. in July 2020. The remaining pipeline work, Phase II, will begin construction in the year 2021 and will be completed in the year 2022.

The eleventh consultant services amendment consists of public outreach and communication, submittal reviews, inspections, and other construction phase related tasks for HDR-Dewberry Water Supply Partners on Conduit No. 16 East Segment – Phase II. The original request for proposal and contract stated future contract amendments are at Denver Water’s discretion to retain the chosen consultant team to provide final design work and services during construction.

Budget and Schedule:

The amount requested for Eleventh Amendment to Contract 500861 is \$638,745. A table showing the history of amendments is below:

Item	Cost	Description	Notes
Original Contract	\$5,526,992	Design for four bid packages	Board Approved April 10, 2013, includes additional \$300,000 staff administered contingency
First Amendment	\$0	Time extension	
Second Amendment	\$0	Fee Schedule update	Approved February 12, 2018
Third Amendment	\$135,056	CAD Standard conversion	Board Approved September 14, 2016
Fourth Amendment	\$133,430	Scope addition – design changes and additions	Executed using Board Approved Project Contingencies
Fifth Amendment	\$708,334	Services during construction for Conduit No. 16 tunnels/open cut segment	Board Approved April 12, 2017
Sixth Amendment	\$154,567	Interstate 70 tunnel extension	Executed using Board Approved Project Contingencies and Staff Administered Supplemental Services

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Item	Cost	Description	Notes
Seventh Amendment	\$6,654	Scope revision – Highway 93 tunnel extension	
Eighth Amendment	\$160,866	Services during construction for Conduit No. 16 West Segment, time extension	Executed during period of CEO signing authority of \$750,000
Ninth Amendment	\$469,081	Services during construction for Conduit No. 16 Central Segment	Board Approved November 7, 2018
Tenth Amendment	\$45,100	Scope addition – design changes and additions	Executed using Board Approved Contingencies and Staff Administered Supplemental Services
Eleventh Amendment	\$638,745	Services during construction for Conduit No. 16 East Segment – Phase II	Pending Board Approval
Total Amount:	\$7,978,825		

There are not sufficient funds in the year 2020 Conduit No. 16 Replacement Project business unit for the \$200,000 in construction phase services anticipated to be spent this year. A project budget adjustment of \$200,000 in the year 2020 is recommended by the Systems and Programs Managers. The remaining funds will be budgeted in the years 2021 and 2022.

Selection of Business Partner:

HDR-Dewberry Water Supply Partners, a joint venture engineering consultant partnership, was selected through a quality-based selection process which considered qualifications and cost. Contract 500861 (formerly 14978A) was approved by the Board on April 10, 2013 for Design Engineering Services for the Conduit No. 16 Replacement and Conduit No. 22 Abandonment projects.

S/MWBE Information:

Denver Water staff has encouraged HDR-Dewberry Water Supply Partners to add minority and women-owned business enterprise (MWBE) firms on all amendments when possible, however the work that will be performed during the construction phase services by HDR-Dewberry Water Supply Partners will be primarily executed by project experienced in-house staff. HDR-Dewberry Water Supply Partners has achieved nearly a 5% MWBE participation on previous amendments through other MWBEs.

Recommendation:

It is recommended that the Board approve the Eleventh Amendment to Contract 500861 with HDR-Dewberry Water Supply Partners for construction phase services for an addition of \$638,745 for a total amended contract amount not to exceed \$7,978,825.

Approvals:

- | | |
|---|--|
| <input checked="" type="checkbox"/> James S. Lochhead, CEO/Manager | <input type="checkbox"/> Brian D. Good, Chief Administrative Officer |
| <input type="checkbox"/> Julie Anderson, Chief of Staff | <input type="checkbox"/> Mike King, Chief External Affairs Officer |
| <input type="checkbox"/> Jessica R. Brody, General Counsel | <input checked="" type="checkbox"/> Robert J. Mahoney, Chief Engineering Officer |
| <input checked="" type="checkbox"/> Angela C. Bricmont, Chief Financial Officer | <input type="checkbox"/> Thomas J. Roode, Chief Operations Office |

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 12, 2020

Board Item: II-B-1-b

First Amendment for Conduit No. 16 East Segment Contract 503045

Action by Consent

Individual Action

Purpose and Background:

The Conduit No. 16 Replacement project will replace 8.5 miles of the existing 42-inch Conduit No. 16 pipeline with a 66-inch diameter treated water pipeline. The existing conduit currently conveys raw water from Ralston Reservoir to the Moffat Water Treatment Plant and was installed in 1937. In the past several years the conduit has required repairs for joint leaks; internal inspections have revealed extensive cracking. The new Conduit No. 16 will deliver treated water from the future Northwater Treatment Plant at Ralston Reservoir to the Moffat Water Treatment Plant. The entire project is being delivered in four bid packages: Tunnel Installations, West Segment, Central Segment, and East Segment – Phases I and II. The Tunnel Installations and the West Segment packages are complete, and the Central Segment is currently under construction. The East Segment – Phase I, consisted of installation of an 84-inch steel casing pipe at West 32nd Avenue and Ward Road, and was recently completed by Garney Companies, Inc. in July 2020. This amendment provides for the replacement of Conduit No. 16 East Segment – Phase II.

The project scope for the Conduit No. 16 East Segment – Phase II consists of the following:

- Installation of approximately 6,610 feet of 66-inch diameter steel pipeline from the southern end of the Applewood Shopping Center located at West 32nd Avenue and Youngfield Street in Wheat Ridge, to the north side of Denver Water's Moffat Treatment Plant in Lakewood.
- Installation of carrier pipe through the existing 84-inch steel casing pipe installed as part of Conduit No. 16 East Segment - Phase I, located at West 32nd Avenue and Ward Road.
- Completion of cathodic protection, appurtenances, demolition, traffic control, dewatering, restoration, and abandonment of portions of the existing 42-inch reinforced concrete pipe.

Budget and Schedule:

The total amount of this amendment is \$14,851,981. Due to the complexity of the project, owner-directed contingency is included in the amount of \$1,000,000 to address unknown issues during construction. The owner-directed contingency is 6.7% of the contract price, which is higher than the normal 2-3% for large contracts and higher than the industry standard of 5.0%. The main reason for the higher contingency is the work will occur through a densely populated corridor and impact business and residential properties throughout the entire project.

Purchase of the steel coil for manufacturing pipe is necessary in the year 2020, which will allow construction to begin in January 2021. There are not sufficient funds in the 2020 Conduit No. 16 Replacement Project business unit for purchase of the steel coil. A project budget adjustment in the amount of \$516,600 is recommended by the systems and programs managers. The remaining funds will be budgeted in the years 2021 and 2022.

Selection of Business Partner:

On January 24, 2020, Denver Water solicited statements of qualifications from seven general contractors listed on the prequalified contractors list under the Civil Pipelines discipline that specialize in large diameter pipelines. On February 7, 2020, five firms submitted a statement of qualifications package and were evaluated by Denver Water engineering staff. Garney Companies, Inc. was selected based on their high-level expertise, proposed project team, and past successful performance on Denver Water projects. From their initial proposal based on the 90% design documents, Garney Companies,

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Inc. has provided a cost savings to Denver Water of approximately \$1,500,000 and a project duration reduction of approximately six weeks through value engineering efforts.

S/MWBE Information:

The minority and women-owned business enterprise goal established for this construction project is 8% participation. Garney Companies, Inc. has committed to meeting the 8% participation goal for the Conduit No 16 Replacement - East Segment – Phase II project.

Recommendation:

It is recommended that the Board approve the First Amendment to Contract 503045 - Conduit No. 16 Replacement – East Segment – Phase II project with Garney Companies, Inc. for and extension of the contract period through June 15, 2022 and an addition of \$14,851,981, for a total amended contract amount not to exceed \$15,675,258 and authorize a \$1,000,000 owner-directed contingency to address unknown issues during construction.

Approvals:

- | | |
|---|--|
| <input checked="" type="checkbox"/> James S. Lochhead, CEO/Manager | <input type="checkbox"/> Brian D. Good, Chief Administrative Officer |
| <input type="checkbox"/> Julie Anderson, Chief of Staff | <input type="checkbox"/> Mike King, Chief External Affairs Officer |
| <input type="checkbox"/> Jessica R. Brody, General Counsel | <input checked="" type="checkbox"/> Robert J. Mahoney, Chief Engineering Officer |
| <input checked="" type="checkbox"/> Angela C. Bricmont, Chief Financial Officer | <input type="checkbox"/> Thomas J. Roode, Chief Operations Officer |

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 12, 2020

Board Item: II-B-2-a

Ralston Reservoir Purchase of Knife Gate Valves and a Hydraulic Power Unit Contract 10342

Action by Consent

Individual Action

Purpose and Background:

The Ralston Dam Upstream Control Renovation Project is a complex construction project to renovate 1930s infrastructure that will provide upstream water control to four treatment plants. The treatment plants include Denver Water's Moffat and Northwater Treatment Plants, Arvada's Ralston Treatment Plant, and North Table Mountain's Treatment Plant. The construction project is currently estimated to cost around \$6.3 million, and it will be sent for bid in January 2021, requested Board approval March 2021, and the construction period will be May 2021 through June 2022. This contract will purchase the long lead time equipment that cannot be procured through the construction project in time to be installed within the construction schedule.

This contract is to purchase a 72-inch and a 6-inch knife gate valve assembly, pipe spools, and a hydraulic power unit to be installed via a separate construction contract at Ralston Reservoir. The equipment procured through this contract will be installed in a separate construction project titled the Ralston Dam Upstream Control Renovation Project. The 72-inch knife gate will replace the existing 72-inch pivot valve. The pivot valve was originally installed with the dam construction in the mid-1930s. The valve has not been functional since the 1970s and has been locked in the open position. The 6-inch knife gate valve will provide a means to slowly fill the reservoir outlet pipe after installation and maintenance activities. The hydraulic power unit will control the open/close function of the valves. The pipe spools are needed to install the 72-inch knife gate valve into the existing infrastructure. This equipment will increase functionality and improve dam safety providing a way to shut off water flow before water enters the outlet piping within the dam.

Budget and Schedule:

The total amount of this contract is \$898,143 and the term of the contract is August 12, 2020 through April 30, 2022. Funds for this contract will come from the 2020 budget for Ralston Dam Upstream Control Renovation project business unit, which has sufficient funds to pay the \$134,721 estimated to be needed in 2020. The remaining \$763,442 will be budgeted in years 2021 and 2022.

Selection of Business Partner:

Denver Water issued an invitation for bid for the purchase of knife gate valves and a hydraulic power unit on June 26, 2020, posting the documents to Rocky Mountain E-Purchasing System (BidNet), Denver Water's website, and through direct email to prequalified manufacturers. Denver Water received two responses from DeZURIK, Inc. and Henry Pratt Company, LLC.

Denver Water's evaluation team selected DeZURIK, Inc. based on its contract price, ability to meet specifications detailed in the bid, acceptance of contract terms, and ability to meet the qualification requirements.

S/MWBE Information:

Small/minority and women-owned business enterprise goals are not applicable for this item.

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Recommendation:

It is recommended that the Board approve Contract 10342 with DeZURIK, Inc. for the Ralston Reservoir purchase of knife gate valves and a hydraulic power unit for the contract period August 12, 2020 through April 30, 2022 for a total contract amount not to exceed \$898,143.

Approvals:

- | | |
|---|--|
| <input checked="" type="checkbox"/> James S. Lochhead, CEO/Manager | <input type="checkbox"/> Brian D. Good, Chief Administrative Officer |
| <input type="checkbox"/> Julie Anderson, Chief of Staff | <input type="checkbox"/> Mike King, Chief External Affairs Officer |
| <input type="checkbox"/> Jessica R. Brody, General Counsel | <input checked="" type="checkbox"/> Robert J. Mahoney, Chief Engineering Officer |
| <input checked="" type="checkbox"/> Angela C. Bricmont, Chief Financial Officer | <input type="checkbox"/> Thomas J. Roode, Chief Operations Officer |