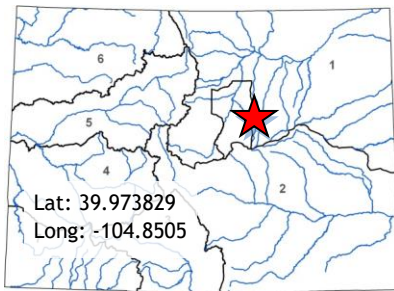




## Water Plan Grant Application

## South Platte River Berm Removal City of Brighton

November 2018 Board Meeting



L O C A T I O N	
County/Countries:	Adams
Drainage Basin:	South Platte

D E T A I L S	
Total Project Cost:	\$1,281,813
Water Plan Grant Request:	\$640,907
<b>Funding Recommendation:</b>	<b>\$200,000</b>
Other CWCB Funding:	\$0
Other Funding Amount:	\$0
Applicant Match:	\$640,907
Project Type(s):	Construction
Project Category(Categories):	Environmental & Rec
Measurable Result:	1000 LF stream, 3.7 acres habitat

The City of Brighton is located in Adams and Weld counties, Northeast of Denver, Colorado. Brighton is approximately 17 square miles in area and owns land adjacent to the South Platte River. Previously, The City of Brighton has acquired one CWCB grant for water storage.

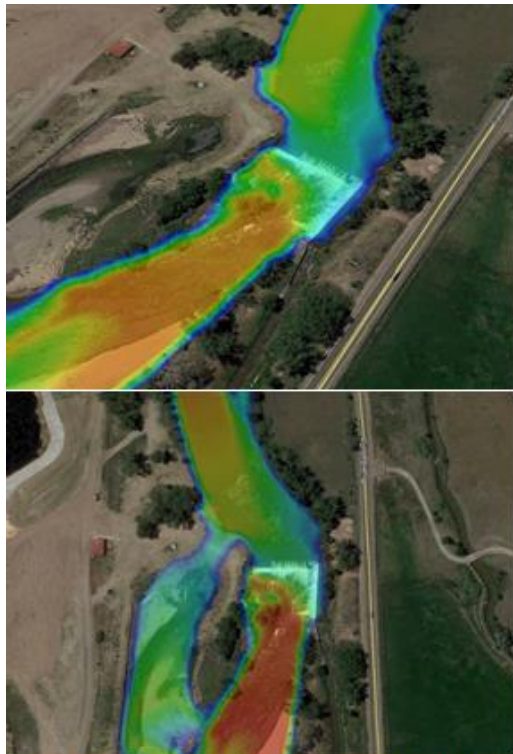


Figure 1 - (Top) Flows hitting the berm and going over Brighton Ditch's Diversion, (Bottom) A Concept of what high flows would do if the project was allowed to stabilize a permanent overflow and create wetland habitat downstream. In both figures, the river is flowing from the top of the figure towards the bottom

On June 11<sup>th</sup> 2015 a heavy rainfall event produced flows in the South Platte River that reached upwards of 12,000cfs. A new channel was created beyond the Ken Mitchell intake structure that damaged the structure and rendered it unserviceable. The breach also created a new path through the floodplain benches on the east side of the Brighton Ditch Company's Diversion, preventing water from being diverted by the Brighton Ditch.

A temporary berm has been built to redirect water back over the Brighton Ditch Company diversion structure and the City of Brighton procured a design-build contract that allowed the re-construction of the Ken Mitchell intake structure. Currently, the berm is not allowing for healthy stream function in its current location.

The City of Brighton is now seeking grant funding to find a permanent solution to the berm issue that also adds additional control to high flows in this reach of the South Platte River. The Water Plan Grant would fund 15.6% of the project.

The project consists of the removal of the existing berm and construction of a permanent and stable spill structure. The future design can allow the stream to flow through the path it naturally took during the flood event, enhance wetland habitats in the overbank, restore approximately 1,000 feet of aquatic habitat along the river, prevent future washouts near the diversion structures, maintain the water supply needs of

stakeholders on the South Platte, and promote a stable river ecosystem that can accommodate high flows.



Last Updated: June 2018

## Colorado Water Conservation Board

### Water Plan Grant Application

#### Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as "project") funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Water Storage Projects  
Conservation, Land Use Planning  
Engagement & Innovation Activities  
Agricultural Projects  
Environmental & Recreation  
Projects

Anna.Mauss@state.co.us  
Kevin.Reidy@state.co.us  
Ben.Wade@state.co.us  
Alexander.Funk@state.co.us  
Chris.Sturm@state.co.us

**FINAL SUBMISSION:** Submit all application materials in one email to [\*\*waterplan.grants@state.co.us\*\*](mailto:waterplan.grants@state.co.us)

in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents. In the subject line, please include the funding category and name of the project.

#### Water Project Summary

Name of Applicant	City of Brighton	
Name of Water Project	South Platte River Berm Removal	
CWP Grant Request Amount		\$640,907
Other Funding Sources		\$
Other Funding Sources		\$
Other Funding Sources		\$
Applicant Funding Contribution		\$640,907
Total Project Cost		\$1,281,813

Last Updated: June 2018

<b>Name of Grantee(s):</b> City of Brighton
<b>Mailing Address:</b> 500 South 4 <sup>th</sup> Ave. Brighton, CO 80601
<b>FEIN:</b> 84-6000567
<b>Organization Contact:</b> Curtis Bauers
<b>Position/Title:</b> Director of Utilities
<b>Email:</b> <a href="mailto:cbauers@brightonco.gov">cbauers@brightonco.gov</a>
<b>Phone:</b> (303)655-2033
<b>Grant Management Contact:</b> Karl Gannon
<b>Position/Title:</b> Utilities Finance Analyst
<b>Email:</b> <a href="mailto:kgannon@brightonco.gov">kgannon@brightonco.gov</a>
<b>Phone:</b> (303)655-2134
<b>Name of Applicant</b> <b>(if different than grantee):</b> Same as grantee
<b>Mailing Address:</b> N/A
<b>Position/Title:</b> N/A
<b>Email:</b> N/A
<b>Phone:</b> N/A
<b>Description of Grantee/Applicant</b>
Provide a brief description of the grantee's organization (100 words or less).
The City of Brighton is located in Adams and Weld Counties Northeast of Denver, Colorado. Brighton is approximately 17 square miles in area and owns land adjacent to the South Platte River, where this project is taking place.



Last Updated: June 2018

Type of Eligible Entity (check one)	
<input checked="" type="checkbox"/>	<b>Public (Government):</b> Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
<input type="checkbox"/>	<b>Public (Districts):</b> Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
<input type="checkbox"/>	<b>Private Incorporated:</b> Mutual ditch companies, homeowners associations, corporations.
<input type="checkbox"/>	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> Private parties may be eligible for funding.
<input type="checkbox"/>	<b>Non-governmental organizations (NGO):</b> Organization that is not part of the government and is non-profit in nature.
<input type="checkbox"/>	<b>Covered Entity:</b> As defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a> .

Type of Water Project (check all that apply)	
<input type="checkbox"/>	Study
<input checked="" type="checkbox"/>	Construction
<input type="checkbox"/>	Identified Projects and Processes (IPP)
<input type="checkbox"/>	Other

Category of Water Project (check the primary category that applies and include relevant tasks)		
<input type="checkbox"/>		
<input type="checkbox"/>	<b>Water Storage -</b> Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	<b>Conservation and Land Use Planning -</b> Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	<b>Engagement &amp; Innovation -</b> Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	<b>Agricultural -</b> Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s):</i>	
<input checked="" type="checkbox"/>	<b>Environmental &amp; Recreation -</b> Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	Other	Explain:

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Location of Water Project	
Please provide the general county and coordinates of the proposed project below in <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Adams County
Latitude	39.973829
Longitude	-104.8505

Water Project Overview
<p>Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.</p> <p>The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.</p> <p>On June 11<sup>th</sup> 2015 a heavy rainfall event produced flows in the South Platte River that reached upwards of 12,000 CFS. This flood event scoured a new channel beyond the Ken Mitchell intake structure, damaging the structure and rendering it unserviceable. The breach also scoured a new path through the floodplain benches on the east side of the Brighton Ditch Company's Diversion, preventing water from being diverting by the Brighton Ditch (<i>It is important to note that the Brighton Ditch is not owned by the City of Brighton</i>).</p> <p>The City of Brighton and Representatives from the Brighton Ditch Company met and tried to come up with a solution to repair both facilities. The Brighton Ditch Company permitted and built a large earthen berm to redirect the water back over the Brighton Ditch Company diversion structure. According to the floodplain permit, this berm was intended to be temporary.</p> <p>Later, the City of Brighton procured a design-build contract to replace the Ken Mitchell intake structure. The structure was re-constructed later that year into the following winter.</p> <p>However, the large, temporary berm, still remains in the South Platte. To remedy this situation, the City of Brighton is seeking grant funding and committing funding of its own to help find a permanent solution to the berm issue that serves the interests of all the parties involved, and serves to add additional control to high flows in this reach of the South Platte River.</p> <p>The City of Brighton is requesting Colorado's Water Plan Grant funding to enhance this controlled channel in the South Platte and promote a healthy ecosystem for this portion of the river. By removing the existing berm and constructing a permanent and stable spill structure, the future design can enhance wetland habitats in the overbank, prevent future washouts near the diversion structures, and make a more stable river ecosystem that can accommodate high flows passing into the newly carved flood pathway.</p>





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Measurable Results		
To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:		
N/A	New Storage Created (acre-feet)	
N/A	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
N/A	Existing Storage Preserved or Enhanced (acre-feet)	
Approximately 1000 lf	Length of Stream Restored or Protected (linear feet)	
N/A	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
3.7 Acres	Area of Restored or Preserved Habitat (acres)	
N/A	Quantity of Water Shared through Alternative Transfer Mechanisms	
N/A	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
N/A	Number of Coloradans Impacted by Engagement Activity	
N/A	Other	Explain: N/A

Water Project Justification
<p>Provide a description of how this water project supports the goals of <a href="#">Colorado's Water Plan</a>, the most recent <a href="#">Statewide Water Supply Initiative</a>, and the applicable Roundtable <a href="#">Basin Implementation Plan</a> and <a href="#">Education Action Plan</a>. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).</p> <p>The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)</p> <p>This project will advance the goals of the Colorado's Water Plan by promoting watershed health and water quality. Restoring a natural wetland environment will benefit watershed health because "Rangelands, wetlands, and riparian corridors play a substantial role in water storage, transport, sediment control, water quality, wildlife habitat, and streamflows." (CWP, Section 7.1, pp. 7-4 to 7-5). The addition of a large wetland feature is fitting to this part of the South Platte River. It will be used heavily by migratory birds and aquatic animals whose habitat is stretched thin from development that has continued across the South Platte Corridor. In the 2015 flood, the river naturally carved the proposed flow path, meaning that if there were no other structures or development, this stretch would naturally recover into a diverse stream habitat. The imported berm fill was supposed to be temporary, and is not allowing for a healthy stream function at this location. Providing a stabilized overflow and designed wetland system will help the aquatic life, the numerous bird species, floodplain management, and allow the stream to flow through the path it naturally took during the flood event while maintaining the water supply needs of stakeholders on the South Platte.</p> <p>This project also promotes the goals of the South Platte Basin Implementation Plan. The South Platte BIP states that "Additional projects... should be considered including environmentally friendly diversion structures, restoration of habitat and stream channels, and environmental pools in reservoirs with release timing to benefit the environment." (SP BIP, Section S.3.6, p. S-8). The South Platte River Berm Removal advances these objectives directly, by making the Brighton Ditch Diversion Structure</p>

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more environmentally friendly and restoring approximately 1000 feet of aquatic habitat along the river. By restoring this stretch of the river, Brighton will be promoting a healthy local environment, which serves a larger region downstream with the associated benefits. The proposed stream restoration would be particularly valuable in the South Platte River, as this stream is rapidly becoming more urbanized and therefore in greater need of protection and remediation.

This project also promotes a recommendation laid out in the Statewide Water Supply Initiative to “pursue projects and other strategies... that benefit consumptive water users, the riparian and aquatic environments, and stream recreation.” (SWSI, Section 8, p. 8-1) This project directly benefits the aquatic environment in the area where the proposed wetlands are located. Also, by supporting the environmental health of a stream section, the area as a whole will benefit from the advantages of making a small but significant change to support the local riparian ecosystem.

### Related Studies

Please provide a list of any related studies, including if the water project is complementary to or assists in the implementation of other CWCB programs.

No directly relevant studies have been completed in conjunction with this project.

### Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project.



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1) City of Brighton; 2) Water Storage – Construction; 3) South Platte; 4) DNK; 5) CTGG1 2018-1618 / Contract CMS No. 107735; 6) 12.9%

### Taxpayer Bill of Rights

The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.

The City of Brighton does not have any TABOR issues that would impact the amount of grant money that the City is allowed to receive.

### Submittal Checklist

X	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> .
<b>Exhibit A</b>	
X	Statement of Work <sup>(1)</sup>
X	Budget & Schedule <sup>(1)</sup>
X	Engineer's statement of probable cost (projects over \$100,000)
N/A	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(1)</sup>
<b>Exhibit C</b>	
X	Map (if applicable) <sup>(1)</sup>
X	Photos/Drawings/Reports
N/A	Letters of Support (Optional)
*	Certificate of Insurance (General, Auto, & Workers' Comp.) <sup>(2)</sup>
*	Certificate of Good Standing with Colorado Secretary of State <sup>(2)</sup>
*	W-9 <sup>(2)</sup>
*	Independent Contractor Form <sup>(2)</sup> (If applicant is individual, not company/organization)
<b>Engagement &amp; Innovation Grant Applicants ONLY</b>	
N/A	Engagement & Innovation Supplemental Application <sup>(1)</sup>





**Last Updated: June 2018**

**\*Will be provided at a later date pending CWCB acceptance of grant application.**

**(1) Required with application.**

**(2) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.**



Last Updated: Jan 16, 2018

## Colorado Water Conservation Board

### Water Plan Grant - Exhibit A

#### Statement Of Work

Date:	07-18-2018
Name of Grantee:	City of Brighton
Name of Water Project:	South Platte River Berm Removal
Funding Source:	

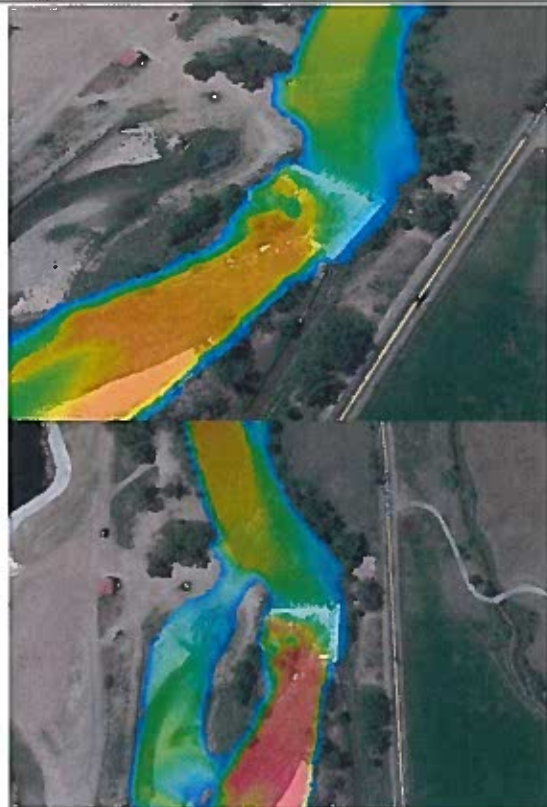
#### Water Project Overview: Berm Removal and Spill Stabilization

The project would remove the temporary riprap berm and place a stable spill structure that would divert high flows into a new wetland habitat downstream of the spill. The stabilized structure would be designed to spill flows frequently enough so that wetland vegetation and plant growth can be created in the scoured section that was carved in 2015.

The design would benefit the river by protecting the pathway for future flood conveyance and by transforming the scoured path into a habitat for birds and aquatic species.

Any design will ensure that the water diversion rights for Brighton Ditch and Ken Mitchell are not impacted by the hydraulic performance of the new structure.

The City of Brighton has prepared conceptual layouts and preliminary construction costs for the work.



*Figure 1 - (Top) Flows hitting the berm and going over Brighton Ditch's Diversion, (Bottom) A Concept of what high flows would do if the project was allowed to stabilize a permanent overflow and create wetland habitat downstream. In both figures, the river is flowing from the top of the figure towards the bottom.*



Last Updated: Jan 16, 2018

**Project Objectives: Remove temporary berm and construct a stable spill into wetland banks**

1. Remove what was supposed to be temporary fill in the floodplain.
2. Develop a stabilized structure that can safely pass water into the scoured path carved by the river in 2015.
3. Enhance the scoured pathway and transform it into a wetland floodplain for migratory birds and aquatic species.
4. Design for recreational passage (optional, if desired) so that future boating or tubing can pass.  
(Note: Recreational passage may conflict with wetland design)

**Tasks**

**Task 1 – Design and Analysis**

**Description of Task: Engineering Design and Analysis**

Perform 30%, 60%, and final design. Develop and prepare final plan set with specifications for construction. The design task shall include a 30 percent report that defines the geomorphology, ecology, hydrology, and hydraulics of the river and the spill structure.

**Method/Procedure: Professional Services**

The analysis and design will be performed by a team of qualified engineers, geomorphologists, ecologists, and scientists.

**Deliverable: Plan Set and Specifications**

1. 30% Design Report and Conceptual Layout
2. 60% Design Plans and Specifications along with an Engineer's Estimate of Costs
3. 100% Signed and Sealed Plans and Specifications for bid



Last Updated: Jan 16, 2018

Tasks
<b>Task 2 – Permitting and Construction</b>
Description of Task: Procure qualified contractor to construct improvements
<ol style="list-style-type: none"><li>1. Perform necessary floodplain permitting.</li><li>2. Obtain US Army Corps of Engineers 404 Permit.</li><li>3. Obtain Stormwater Discharge Permit from State.</li><li>4. Obtain all necessary water discharge permits from State.</li><li>5. Mobilize equipment for construction.</li><li>6. Construct plans from Task 1.</li><li>7. Close out construction.</li><li>8. Demobilize equipment.</li></ol>
Method/Procedure: Contractor with Support from Engineer
Design engineer will continue services into construction to help with floodplain permitting and construction management. Qualified contractor will perform the construction and necessary dewatering.
Deliverable: Final Construction Completion

Last Updated: Jan 16, 2018

### Budget and Schedule

This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format.

### Reporting Requirements

**Progress Reports:** The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues.

**Final Report:** At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

### Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

Project costs not covered by those or other grants, and are therefore the responsibility of the grantee, will be eligible for CWCB funds at the following percentages of project costs:

Type of Activity	Percent of Project Costs		
	Recommended Grant Funding Request	Max Grant Funding Request (All CWCB Sources)	Minimum Funding Match (Non-CWCB Sources)
Engineering & Construction	20%	50%	50%
Feasibility Study	50%	50%	50%
Reducing Agricultural Dry Up	50%	80%	20%
Conservation/Efficiency Methods	50%	80%	20%
Educational Efforts	50%	80%	20%
Environmental Conservation	50%	80%	20%
Watershed Improvements	50%	80%	20%
Stream Improvements	50%	80%	20%
Land Use Planning	20%	50%	50%
Recreational Projects	20%	80%	20%

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.



Last Updated: Jan 16, 2018

### Performance Measures

Performance measures for this contract shall include the following:

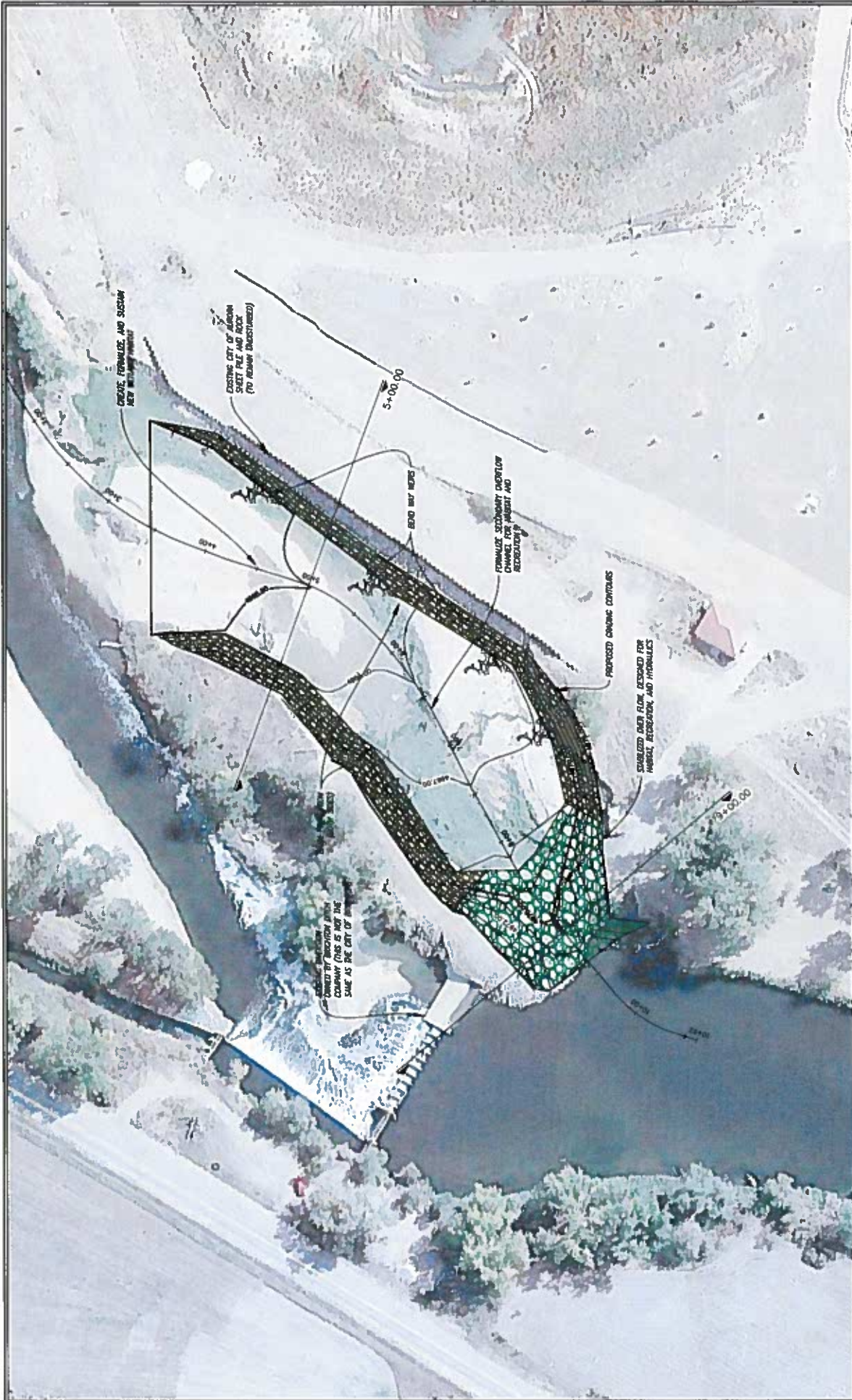
- (a) **Performance standards and evaluation:** Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.
- (b) **Accountability:** Per Water Plan Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per Water Plan Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.
- (c) **Monitoring Requirements:** Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.
- (d) **Noncompliance Resolution:** Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.



## **Water Plan Grant - Exhibit B**

Project End Date: 12/01/2020

[illegible]



**KEN MITCHELL OVERFLOW GRANT**

**APPLICATION**

**PLAN VIEW**

Page Number: 10

X OF X

REV.	DATE	DESCRIPTION

**CITY OF ALBANY**

1000 N. 10TH AVE. SUITE 200

ALBANY, NEW YORK 12206

TEL: 518.262.2222

FAX: 518.262.2222

**DESIGNED BY**

**COMPANY**

1000 N. 10TH AVE. SUITE 200

ALBANY, NEW YORK 12206

TEL: 518.262.2222

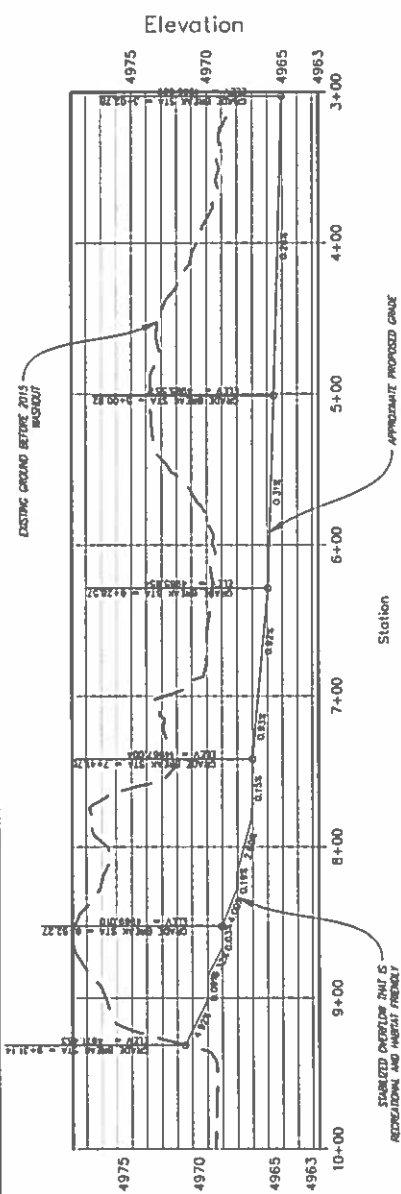
FAX: 518.262.2222

**DATE**

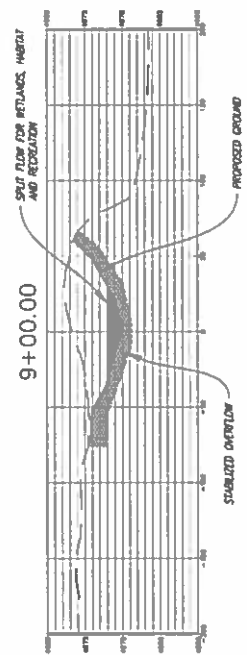
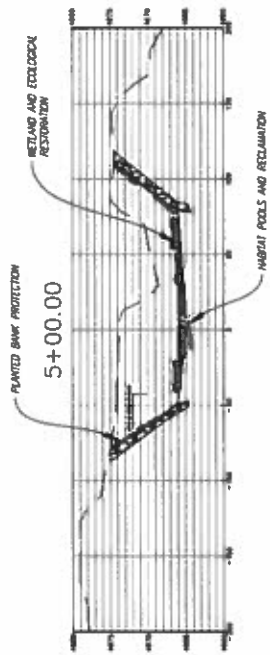
**BY**

**DATE**

**BY**



OVERFLOW CENTERLINE LINE PROFILE



TYPICAL CROSS SECTIONS

PROJECT NO. \_\_\_\_\_

SHEET NO. \_\_\_\_\_

DATE \_\_\_\_\_

**KEN MITCHELL OVERFLOW GRANT APPLICATION**

Profile and Sections

BY \_\_\_\_\_

DATE \_\_\_\_\_

SCALE \_\_\_\_\_

DESIGNED BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

APPROVED BY \_\_\_\_\_

**Ken Mitchell**

10000 1st Ave. N.E. Suite 100

Seattle, WA 98125

PH: 206-467-9999

FX: 206-467-9999

PROJECT NO. \_\_\_\_\_

SHEET NO. \_\_\_\_\_

DATE \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

SHEET NO. \_\_\_\_\_

DATE \_\_\_\_\_

**Ken Mitchell**

10000 1st Ave. N.E. Suite 100

Seattle, WA 98125

PH: 206-467-9999

FX: 206-467-9999

PROJECT NO. \_\_\_\_\_

SHEET NO. \_\_\_\_\_

DATE \_\_\_\_\_