STATE OF COLORADO

Colorado Water Conservation Board Department of Natural Resources

1580 Logan Street, Suite 600 Denver, Colorado 80203 Phone: (303) 866-3441 Fax: (303) 894-2578 www.cwcb.state.co.us



December 30, 2013

John W. Hickenlooper Governor

Mike King DNR Executive Director

James Eklund CWCB Director

Upper Arkansas Water Conservancy District Mr. Ralph Scanga, General Manager P.O. Box 1090 Salida, CO 81201

RE: WSRA – Helena Diversion Structure – BV Boat Chute Improve – Phase 2 in the Arkansas River Basin

Dear Ralph:

This letter is to inform you that the WSRA grant request to assist in the Helena Diversion Structure Phase 2 project was signed on December 20, 2013. The original signed purchase order will be mailed to you.

With the executed purchase order, you are now able to proceed with the project and invoicing the State of Colorado for costs incurred through March 1, 2014. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 45 days. I wish you much success in your project.

If you have any additional questions or concerns, please contact Mr. Brent Newman, Project Manager at (303) 866-3441 x3222.

Sincerely,

/s/

Dori Vigil
Colorado Water Conservation Board
Water Supply Planning Section
1580 Logan Street, Suite 200
Denver CO 80203
(303) 866-3441 x3250
dori.vigil@state.co.us

WATER CONSERVATION BOARD 1313 SHERMAN STREET, ROOM 721 DENVER, CO 80203

Buyer:

MAGGIE VAN CLEEF

Phone Number:

303-866-3292

Agency Contact: DORI VIGIL **Phone Number:**

303 866 3441

IMPORTANT

DATE:

The PO# and Line # must appear on all invoices, packing slips, cartons

12-20-13

ACC: 12-19-13

and correspondence

PURCHASE ORDER STATE OF COLORADO

OE PDA 14IBC000021 Page# 01

State Award #

BID#

Invoice in Triplicate

DIVISION OF WATER CONSERVATION 1313 SHERMAN STREET, ROOM 721

DENVER, CO 80203

UPPER ARKANSAS WTR ACTIVITY ENTPRSE

Phone:

N D

E

FEIN

339 EAST HIGHWAY 50

840817067

Purchase Requisition #:

Vendor Contact: RALPH SCANGA

0 SALIDA R

CO 81201

INSTRUCTIONS TO VENDOR:

1. If for any reason, delivery of this order is delayed beyond the delivery/installation date shown, please notify the agency contact named at the top left. (Right of cancellation is reserved in instances in which timely delivery is not made.)

- 2. All chemicals, equipment and materials must conform to the standards required by OSHA.
- 3. NOTE: Additional terms and conditions on reverse side.

Payment will be made by this agency

Ship To:

DIVISION OF WATER CONSERVATION 1313 SHERMAN STREET, ROOM 721

DENVER, CO 80203

Delivery/Installation Date: 03-01-14

F.O.B. DESTINATION

STATE PAYS NO FREIGHT

SPECIAL INSTRUCTIONS:

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LINE ITEM	COMMODITY/ITEM CODE	UNIT OF MEASUREMENT	QUANTITY	UNIT COST	TOTAL ITEM COST
(V 10% %					

001 91843000000

WSRA GRANT - HELENA DIVER STRUCT/BV BOAT CHUTE CMS#

IMPROVE - PHASE 2

\$43,125.00

DOCUMENT TOTAL =

FOR THE STATE OF COLORADO Authorized Signature

THIS PO IS ISSUED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS This PO is effective on the date signed by the authorized individual. EPSPO PAA

DP-01 (R-02/06)

Exhibit A Statement of Work

WATER ACTIVITY NAME – Helena Diversion Structure/ BV Boat Chute Improvement Project Arkansas River Basin Phase 2

GRANT RECIPIENT – Upper Arkansas Water Conservancy District

FUNDING SOURCE - Basin Account

INTRODUCTION AND BACKGROUND

This grant application is to continue an existing engineering and construction project on the Helena Diversion Structure in the Arkansas River at Buena Vista. Improvements to this structure will be beneficial in many ways. Construction will improve the delivery efficiency, availability and sustainability of water for irrigation to water right owners as well as integrating further boater safety and improved fishery.

The Phase 2 portion of the Helena Ditch Headgate involves the addition of a concrete ditch channel and flow bypass structure to the Arkansas River. The ditch headgate diversion structure is an integrated system that involves the headgate wall and side gate, delivery channel, and bypass structure. Phase 1 of the project will construct the headgate wall. Phase 2 will complete the replacement of the existing bypass structure and with the Phase 1 improvements allow the system to regulate water right flow amounts in to the ditch while at the same bypassing excess flows that are experienced during river water level fluctuations.

OBJECTIVES

The objectives of Phase 2 of the study are to:

- Construct a new concrete channel and bypass structure that will improve the availability and sustainability of water right flow amounts.
- Improve the system's ability to regulate flow amounts while at the same time bypassing excess flows that are experienced at water flow fluctuations.
- Improve boater safety and fish habitat by fully restoring all structures associated with this integrated system.
- Improve future habitat by installing rock armoring erosion protection
- Improving the overall engineering soundness of the structures

TASKS

- Task1: Removal of Existing Structures
- Task 2: Construction and Installation of Concrete Channel and Bypass Structure
- Task 3: Installation of Control Gate
- Task 4: Installation of Rock Armoring Erosion Protection
- Task 5: Engineering and Inspection
- (Please refer to Exhibit C for construction details)

TASK 1 – Removal of Existing Structures

Description of Task

The purpose of this task is to remove the existing diversion channel and bypass structures. The removal of these structures will allow for a new concrete channel and bypass structure to be installed.

Method/Procedure

The contractor will remove all structures with approved construction techniques and equipment.

Deliverable

Complete removal of the existing channel and bypass structure to allow for future installment of new channel and bypass structures.

TASK 2 – Construction and Installation of New Concrete Channel and Bypass Structure

Description of Task

The purpose of this task is to construct and install a 45-feet of 8-foot wide concrete channel and bypass structure to be connected to the headgate wall.

Method/Procedure

The contractor will furnish a concrete cast in place channel and bypass structure. The structures will be made with cold weather concreting and will be tied into the existing wall.

Deliverable

Complete construction and installation of the concrete channel and bypass structure. The channel will be 8 feet wide and 4 feet deep. The new ditch invert flow line will be lowered 3 inches and the bypass structure will be widened.

TASK 3- Installation of Control Gate

Description of Task

The purpose of this task is to furnish and install a 6-foot wide by 4-foot tall regulating control gate.

Method/Procedure

Contractor will install control gate

Deliverable

An installed 6 foot wide and 4 feet tall regulating control gate.

TASK 4- Installation of Rock Armoring Erosion Protection

Description of Task

The purpose of this task is to furnish and install Un-grouted Rock below the bypass structure for erosion protection.

Method/Procedure

Contractor will use approved equipment and techniques to fill the area under the bypass structure with un-grouted rock.

Deliverable

The final product will be a new un-grouted rock armoring erosion protection area.

Task 5- Engineering and Inspection

Description of Task

The purpose of this task is to have a licensed professional Engineer one site for two inspections as well as a final review.

Method/ Procedure

Higher a licensed professional Engineer and request 2 inspections and a final review

<u>Deliverable</u>

The Engineer will approve all new structures and will ensure that they are structurally sound and meet all requirements of the project.

Task	Description	Matching Funds	WSRA Funds	Total
1	Removal of Existing Structures	\$0.00	\$1,083.46	\$1,083.46
2	Construction and Installation of Concrete Channel and Bypass Structure	\$0.00	\$25,859.70	\$25,859.70
3	Installation of Control Gate	\$0.00	\$8,907.80	\$8,907.80
4	Installation of Rock Armoring Erosion Protection	\$0.00	\$4,149.04	\$4,149.04
5	Engineering and Inspection	\$10,000.00	\$3,125.00	\$13,125.00
	Totals	\$10,000.00	\$43,125.00	\$53,125.00

Helena Ditch Structure Improvement Project Phase 2 Schedule

Date: 11/27/2013

TASK	Start Date	Finish Date
Task 1: Removal of Existing Structures	Upon NTP	NTP + 15days
Task 2: Construction and Installation of Concrete Channel and Bypass Structure	Upon NTP	NTP + 30 days
Task 3: Installation of Control Gate	Upon NTP	NTP + 30 days
Task 4: Installation of Rock Armoring Erosion Protection	Upon NTP	NTP + 45 days
Task 5: Engineering and Inspection	Upon NTP	NTP + 45 days

EXHIBIT B Project Maps

Exhibit B

Maps

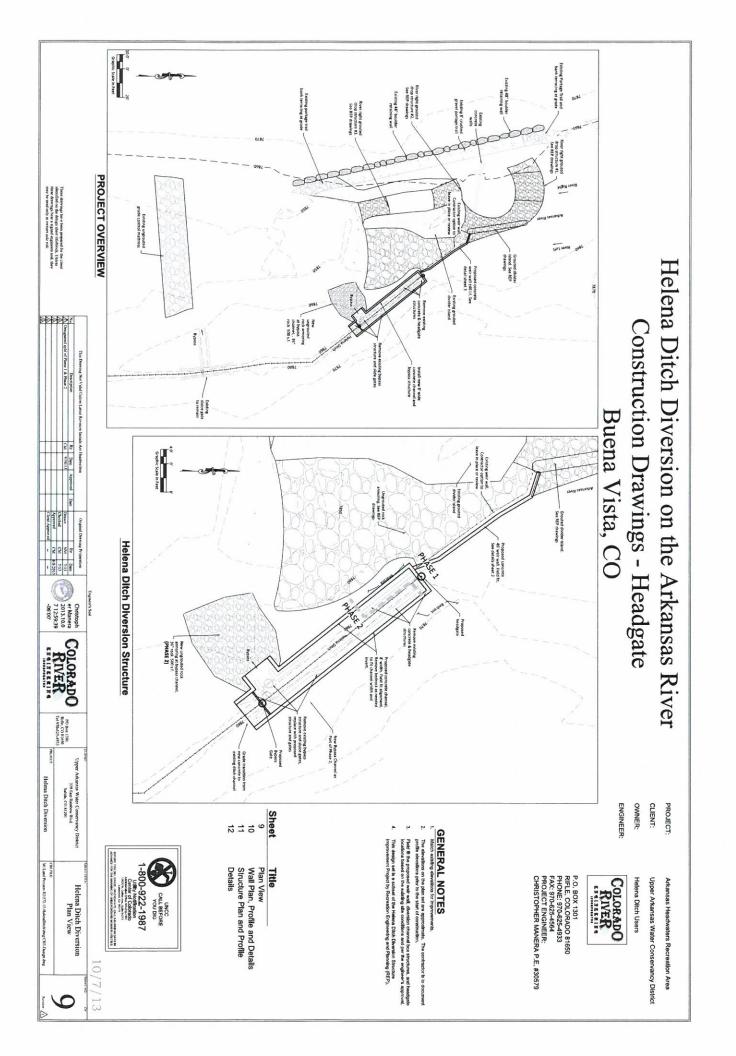


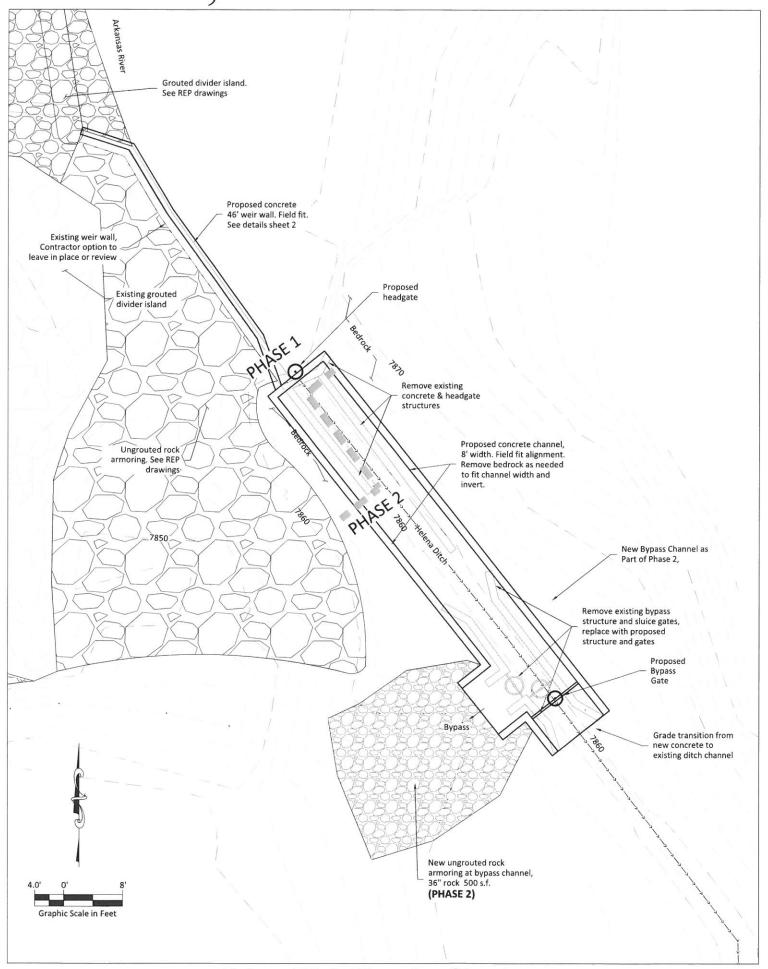
Exhibit B Maps



EXHIBIT C PROJECT DESIGN DRAWINGS

PROJECT OVERVIEW & CROSS SECTIONS





Helena Ditch Diversion Structure

